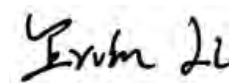


# FCC SAR TEST REPORT

**Application No.:** ZEWM2304000550RG  
**Applicant:** vivo Mobile Communication Co., Ltd.  
**Manufacturer:** vivo Mobile Communication Co., Ltd.  
**Product Name:** Mobile Phone  
**Model No.(EUT):** V2250  
**Trade Mark:** vivo  
**FCC ID:** 2AUCY-V2250  
**Standards:** FCC 47CFR §2.1093  
**Date of Receipt:** 2023/05/12  
**Date of Test:** 2023/05/18 to 2023/06/03  
**Date of Issue:** 2023/06/08  
**Test conclusion:** **PASS \***

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Ervin Li

Regulatory Manager



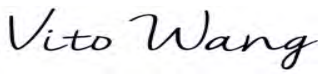
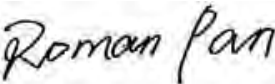
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## REVISION HISTORY

| Report Number      | Revision | Description | Issue Date |
|--------------------|----------|-------------|------------|
| ZEWM2304000550RG02 | 01       | Original    | 2023/06/08 |
|                    |          |             |            |
|                    |          |             |            |
|                    |          |             |            |
|                    |          |             |            |
|                    |          |             |            |

|             |                                                                                                   |
|-------------|---------------------------------------------------------------------------------------------------|
| Prepared By | <br>Vito Wang   |
| Checked By  | <br>Roman Pan |



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## TEST SUMMARY

| Frequency Band                               | Maximum Reported SAR(W/kg) |             |             |                          |
|----------------------------------------------|----------------------------|-------------|-------------|--------------------------|
|                                              | Head                       | Body-worn   | Hotspot     | Product specific 10g SAR |
| GSM850                                       | 0.44                       | 0.22        | 0.46        | /                        |
| GSM1900                                      | 0.10                       | 0.33        | 0.52        | /                        |
| WCDMA Band II                                | 0.20                       | 0.27        | 0.44        | /                        |
| WCDMA Band IV                                | 0.23                       | 0.42        | 0.44        | /                        |
| WCDMA Band V                                 | 0.70                       | 0.33        | <b>0.77</b> | /                        |
| CDMA BC0                                     | 0.61                       | 0.26        | 0.65        | /                        |
| LTE Band 2                                   | 0.16                       | 0.26        | 0.43        | /                        |
| LTE Band 4                                   | 0.36                       | 0.46        | 0.56        | /                        |
| LTE Band 7                                   | 0.52                       | 0.25        | 0.38        | /                        |
| LTE Band 12/17                               | 0.27                       | 0.18        | 0.37        | /                        |
| LTE Band 13                                  | 0.22                       | 0.15        | 0.26        | /                        |
| LTE Band 26/5/18/19                          | 0.55                       | 0.25        | 0.62        | /                        |
| LTE Band 41/38                               | 0.66                       | 0.21        | 0.35        | /                        |
| LTE Band 66                                  | 0.16                       | 0.40        | 0.49        | /                        |
| NR Band 2                                    | 0.16                       | 0.26        | 0.39        | /                        |
| NR Band 7                                    | 0.64                       | 0.24        | 0.36        | /                        |
| NR Band 26/5                                 | 0.78                       | 0.28        | 0.64        | /                        |
| NR Band 38                                   | 0.74                       | 0.42        | 0.34        | /                        |
| NR Band 41                                   | <b>0.89</b>                | 0.30        | 0.25        | /                        |
| NR Band 66                                   | 0.42                       | 0.45        | 0.51        | /                        |
| NR Band 77                                   | 0.61                       | 0.52        | 0.30        | 2.53                     |
| NR Band 78                                   | 0.67                       | <b>0.89</b> | 0.47        | <b>2.86</b>              |
| WI-FI (2.4GHz)                               | 0.61                       | <0.1        | 0.15        | /                        |
| WI-FI (5GHz)                                 | 0.47                       | 0.30        | 0.75        | 0.92                     |
| BT                                           | 0.22                       | <0.1        | <0.1        | /                        |
| SAR Limited(W/kg)                            | 1.6                        |             |             | 4.0                      |
| Maximum Simultaneous Transmission SAR (W/kg) |                            |             |             |                          |
| Scenario                                     | Head                       | Body-worn   | Hotspot     | Product specific 10g SAR |
| Sum SAR                                      | 1.39                       | 1.21        | 1.34        | 3.78                     |
| SPLSR                                        | /                          | /           | /           | /                        |
| SPLSR Limited                                | 0.04                       |             |             | 0.1                      |

## Note:

1) The Simultaneous transmission SAR is the same test position of the WWAN antenna + WiFi/BT antenna.  
2) According to TCB workshop (Overlapping LTE Bands): SAR in LTE band 17 (frequency range: 704-716 MHz) is covered by LTE band 12 (frequency range: 699-716 MHz). SAR in LTE band 5 (frequency range: 824-849 MHz) and LTE band 18 (frequency range: 815-830 MHz) and LTE band 19 (frequency range: 830-845 MHz) are covered by LTE band 26 (frequency range: 814-849 MHz). The SAR in LTE band 38 (frequency range: 2570-2620 MHz) is covered by LTE band 41 (frequency range: 2496-2690 MHz). The SAR in NR band 5 (frequency range: 824-849 MHz) is covered by NR band 26 (frequency range: 814-849 MHz). Because the frequency range is similar, the maximum tuning limit is the same, and the channel bandwidth and other operating parameters for the smaller band is fully supported by the larger band.



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## 1 General Information

### 1.1 Details of Client

|               |                                                     |
|---------------|-----------------------------------------------------|
| Applicant:    | vivo Mobile Communication Co., Ltd.                 |
| Address:      | No.1, vivo Road, Chang'an, Dongguan,Guangdong,China |
| Manufacturer: | vivo Mobile Communication Co., Ltd.                 |
| Address:      | No.1, vivo Road, Chang'an, Dongguan,Guangdong,China |

### 1.2 Test Location

|                |                                                                                                               |
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| Post code:     | 518057                                                                                                        |
| Test engineer: | Lyons Liang, Charley Yi, Mike Li, Durant Lin, Bernie Zhuang, Messi Chen, James Zheng, Ethan Li                |



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- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.



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## 1.4 General Description of EUT

|                                   |                                                                                                                                                                                                                                                                                                                |                          |            |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------|
| Device Type :                     | portable device                                                                                                                                                                                                                                                                                                |                          |            |
| Exposure Category:                | uncontrolled environment / general population                                                                                                                                                                                                                                                                  |                          |            |
| Product Name:                     | Mobile Phone                                                                                                                                                                                                                                                                                                   |                          |            |
| Model No.(EUT):                   | V2250                                                                                                                                                                                                                                                                                                          |                          |            |
| FCC ID:                           | 2AUCY-V2250                                                                                                                                                                                                                                                                                                    |                          |            |
| Trade Mark:                       | vivo                                                                                                                                                                                                                                                                                                           |                          |            |
| Product Phase:                    | Identical Prototype                                                                                                                                                                                                                                                                                            |                          |            |
| IMEI:                             | 868007060199896, 868007060199714, 868007060199474, 868007060199995, 868007060199672, 868007060199870, 868007060199292                                                                                                                                                                                          |                          |            |
| Hardware Version:                 | MP_0.1                                                                                                                                                                                                                                                                                                         |                          |            |
| Software Version:                 | PD2283F_EX_A_13.0.6.14.W30                                                                                                                                                                                                                                                                                     |                          |            |
| Antenna Type:                     | PIFA Antenna                                                                                                                                                                                                                                                                                                   |                          |            |
| Device Operating Configurations : |                                                                                                                                                                                                                                                                                                                |                          |            |
| Modulation Mode:                  | <b>GSM:</b> GMSK, 8PSK; <b>WCDMA:</b> QPSK, 16QAM(HSPA+); <b>CDMA:</b> QPSK; <b>LTE:</b> QPSK,16QAM,64QAM, 256QAM; <b>5G NR:</b> DFT-s-OFDM (PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM), CP-OFDM (QPSK, 16QAM, 64QAM, 256QAM) <b>WIFI:</b> DSSS, OFDM, OFDMA; <b>BT:</b> GFSK, $\pi/4$ DQPSK,8DPSK <b>NFC:</b> ASK |                          |            |
| Device Class:                     | B                                                                                                                                                                                                                                                                                                              |                          |            |
| GPRS Multi-slots Class:           | 33                                                                                                                                                                                                                                                                                                             | EGPRS Multi-slots Class: | 33         |
| HSDPA UE Category:                | 24                                                                                                                                                                                                                                                                                                             | HSUPA UE Category        | 6          |
| DC-HSDPA UE Category:             | 24                                                                                                                                                                                                                                                                                                             |                          |            |
| Power Class:                      | 4,tested with power level 5(GSM850)                                                                                                                                                                                                                                                                            |                          |            |
|                                   | 1,tested with power level 0(GSM1900)                                                                                                                                                                                                                                                                           |                          |            |
|                                   | 3, tested with power control “all 1”(WCDMA Band)                                                                                                                                                                                                                                                               |                          |            |
|                                   | 3, tested with power control “all up”(CDMA Band)                                                                                                                                                                                                                                                               |                          |            |
|                                   | 3, tested with power control Max Power(LTE Band)                                                                                                                                                                                                                                                               |                          |            |
| Frequency Bands:                  | Band                                                                                                                                                                                                                                                                                                           | Tx (MHz)                 | Rx (MHz)   |
|                                   | GSM850                                                                                                                                                                                                                                                                                                         | 824~849                  | 869~894    |
|                                   | GSM1900                                                                                                                                                                                                                                                                                                        | 1850~1910                | 1930~1990  |
|                                   | WCDMA Band II                                                                                                                                                                                                                                                                                                  | 1850~1910                | 1930~1990  |
|                                   | WCDMA Band IV                                                                                                                                                                                                                                                                                                  | 1710~1755                | 2110~2155  |
|                                   | WCDMA Band V                                                                                                                                                                                                                                                                                                   | 824~849                  | 869~894    |
|                                   | CDMA BC0                                                                                                                                                                                                                                                                                                       | 824~849                  | 869~894    |
|                                   | LTE Band 2                                                                                                                                                                                                                                                                                                     | 1850 ~1910               | 1930 ~1990 |
|                                   | LTE Band 4                                                                                                                                                                                                                                                                                                     | 1710~1755                | 2110~2155  |
|                                   | LTE Band 5                                                                                                                                                                                                                                                                                                     | 824~849                  | 869~894    |
|                                   | LTE Band 7                                                                                                                                                                                                                                                                                                     | 2500~2570                | 2620~2690  |
|                                   | LTE Band 12                                                                                                                                                                                                                                                                                                    | 699~716                  | 729~746    |
|                                   | LTE Band 13                                                                                                                                                                                                                                                                                                    | 777~787                  | 746~756    |
|                                   | LTE Band 17                                                                                                                                                                                                                                                                                                    | 704~716                  | 734~746    |
|                                   | LTE Band 18                                                                                                                                                                                                                                                                                                    | 815~830                  | 860~875    |
|                                   | LTE Band 19                                                                                                                                                                                                                                                                                                    | 830~845                  | 875~890    |



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|                      |                                                                                                                   |                                 |             |
|----------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------|
|                      | LTE Band 26                                                                                                       | 814~849                         | 859~894     |
|                      | LTE Band 38                                                                                                       | 2570~2620                       | 2570~2620   |
|                      | LTE Band 41                                                                                                       | 2496~2690                       | 2496~2690   |
|                      | LTE Band 66                                                                                                       | 1710~1780                       | 2110~2180   |
|                      | NR Band n2                                                                                                        | 1850 ~1910                      | 1930 ~1990  |
|                      | NR Band n5                                                                                                        | 824~849                         | 869-894     |
|                      | NR Band n7                                                                                                        | 2500~2570                       | 2620~2690   |
|                      | NR Band n26                                                                                                       | 814~849                         | 859~894     |
|                      | NR Band n38                                                                                                       | 2570~2620                       | 2570~2620   |
|                      | NR Band n41                                                                                                       | 2496~2690                       | 2496~2690   |
|                      | NR Band n66                                                                                                       | 1710~1780                       | 1710~1780   |
|                      | NR Band n77                                                                                                       | 3450~3550                       | 3450~3550   |
|                      |                                                                                                                   | 3700~3980                       | 3700~3980   |
|                      | NR Band n78 (Class 2/3)                                                                                           | 3450~3550                       | 3450~3550   |
|                      |                                                                                                                   | 3700~3800                       | 3700~3800   |
|                      | Bluetooth                                                                                                         | 2400~2483.5                     | 2400~2483.5 |
|                      | Wi-Fi 2.4G                                                                                                        | 2412~2462                       | 2412~2462   |
|                      | Wi-Fi 5G                                                                                                          | 5150~5250                       | 5150~5250   |
|                      |                                                                                                                   | 5250~5350                       | 5250~5350   |
|                      |                                                                                                                   | 5470~5725                       | 5470~5725   |
| 5725~5850            |                                                                                                                   | 5725~5850                       |             |
| NFC                  | 13.56                                                                                                             | 13.56                           |             |
| RF Cable:            | <input checked="" type="checkbox"/> Provided by the applicant <input type="checkbox"/> Provided by the laboratory |                                 |             |
| Battery Information: | Model:                                                                                                            | B-Z7                            |             |
|                      | Normal Voltage:                                                                                                   | +3.91V                          |             |
|                      | Rated capacity:                                                                                                   | 4505mAh                         |             |
|                      | Manufacturer:                                                                                                     | Dongguan NVT Technology Co.,Ltd |             |
| Test Channels:       | 128-190-251(GSM850)                                                                                               |                                 |             |
|                      | 512-661-810(GSM1900)                                                                                              |                                 |             |
|                      | 9262-9400-9538(UMTS Band II)                                                                                      |                                 |             |
|                      | 1312-1413-1513(UMTS Band IV)                                                                                      |                                 |             |
|                      | 4132-4182-4233(UMTS Band V)                                                                                       |                                 |             |
|                      | 1013-384-777(CDMA BC0)                                                                                            |                                 |             |
|                      | 18607-18900-19193(LTE Band 2 BW=1.4MHz)                                                                           |                                 |             |
|                      | 18615-18900-19185(LTE Band 2 BW=3MHz)                                                                             |                                 |             |
|                      | 18625-18900-19175(LTE Band 2 BW=5MHz)                                                                             |                                 |             |
|                      | 18650-18900-19150(LTE Band 2 BW=10MHz)                                                                            |                                 |             |
|                      | 18675-18900-19125(LTE Band 2 BW=15MHz)                                                                            |                                 |             |
|                      | 18700-18900-19100(LTE Band 2 BW=20MHz)                                                                            |                                 |             |
|                      | 19957-20175-20393(LTE Band 4 BW=1.4MHz)                                                                           |                                 |             |
|                      | 19965-20175-20385(LTE Band 4 BW=3MHz)                                                                             |                                 |             |
|                      | 19975-20175-20375(LTE Band 4 BW=5MHz)                                                                             |                                 |             |
|                      | 20000-20175-20350(LTE Band 4 BW=10MHz)                                                                            |                                 |             |
|                      | 20025-20175-20325(LTE Band 4 BW=15MHz)                                                                            |                                 |             |
|                      | 20050-20175-20300(LTE Band 4 BW=20MHz)                                                                            |                                 |             |
|                      | 20407-20525-20643(LTE Band 5 BW=1.4MHz)                                                                           |                                 |             |



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|                                                     |
|-----------------------------------------------------|
| 20415-20525-20635(LTE Band 5 BW=3MHz)               |
| 20425-20525-20625(LTE Band 5 BW=5MHz)               |
| 20450-20525-20600(LTE Band 5 BW=10MHz)              |
| 20775-21100-21425(LTE Band 7 BW=5MHz)               |
| 20800-21100-21400(LTE Band 7 BW=10MHz)              |
| 20825-21100-21375(LTE Band 7 BW=15MHz)              |
| 20850-21100-21350(LTE Band 7 BW=20MHz)              |
| 23017-23095-23173(LTE Band 12 BW=1.4MHz)            |
| 23025-23095-23165(LTE Band 12 BW=3MHz)              |
| 23035-23095-23155(LTE Band 12 BW=5MHz)              |
| 23060-23095-23130(LTE Band 12 BW=10MHz)             |
| 23205-23230-23255(LTE Band 13 BW=5MHz)              |
| 23230(LTE Band 13 BW=10MHz)                         |
| 23755-23790-23825(LTE Band 17 BW=5MHz)              |
| 23780-23790-23800(LTE Band 17 BW=10MHz)             |
| 23875-23925-23975(LTE Band 18 BW=5MHz)              |
| 23900-23925-23950(LTE Band 18 BW=10MHz)             |
| 23925(LTE Band 18 BW=15MHz)                         |
| 24025-24075-24125(LTE Band 19 BW=5MHz)              |
| 24050-24075-24100(LTE Band 19 BW=10MHz)             |
| 24075(LTE Band 19 BW=15MHz)                         |
| 26697-26865-27033(LTE Band 26 BW=1.4MHz)            |
| 26705-26865-27025(LTE Band 26 BW=3MHz)              |
| 26715-26865-27015(LTE Band 26 BW=5MHz)              |
| 26740-26865-26990(LTE Band 26 BW=10MHz)             |
| 26765-26865-26965(LTE Band 26 BW=15MHz)             |
| 37775-38000-38225(LTE Band 38 BW=5MHz)              |
| 37800-38000-38200(LTE Band 38 BW=10MHz)             |
| 37825-38000-38175(LTE Band 38 BW=15MHz)             |
| 37850-38000-38150(LTE Band 38 BW=20MHz)             |
| 39675-40148-40620-41093-41565(LTE Band 41 BW=5MHz)  |
| 39700-40160-40620-41080-41540(LTE Band 41 BW=10MHz) |
| 39725-40173-40620-41068-41515(LTE Band 41 BW=15MHz) |
| 39750-40185-40620-41055-41490(LTE Band 41 BW=20MHz) |
| 131979-132322-132665(LTE Band 66 BW=1.4MHz)         |
| 131987-132322-132657(LTE Band 66 BW=3MHz)           |
| 131997-132322-132647(LTE Band 66 BW=5MHz)           |
| 132022-132322-132622(LTE Band 66 BW=10MHz)          |
| 132047-132322-132597(LTE Band 66 BW=15MHz)          |
| 132072-132322-132572(LTE Band 66 BW=20MHz)          |
| 370500-376000-381500(NR Band n2 BW=5MHz)            |
| 371000-376000-381000(NR Band n2 BW=10MHz)           |
| 371500-376000-380500(NR Band n2 BW=15MHz)           |
| 372000-376000-380000(NR Band n2 BW=20MHz)           |
| 165300-167300-169300(NR Band n5 BW=5MHz)            |
| 165800-167300-168800(NR Band n5 BW=10MHz)           |
| 166300-167300-168300(NR Band n5 BW=15MHz)           |



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|                                                                                                |
|------------------------------------------------------------------------------------------------|
| 166800-167300-167800(NR Band n5 BW=20MHz)                                                      |
| 500500-507000-513500(NR Band n7 BW=5MHz)                                                       |
| 501000-507000-513000(NR Band n7 BW=10MHz)                                                      |
| 501500-507000-512500(NR Band n7 BW=15MHz)                                                      |
| 502000-507000-512000(NR Band n7 BW=20MHz)                                                      |
| 502500-507000-511500(NR Band n7 BW=25MHz)                                                      |
| 503000-507000-511000(NR Band n7 BW=30MHz)                                                      |
| 504000-507000-510000(NR Band n7 BW=40MHz)                                                      |
| 163300-166300-169300(NR Band n26 BW=5MHz)                                                      |
| 163800-166300-168800(NR Band n26 BW=10MHz)                                                     |
| 164300-166300-168300(NR Band n26 BW=15MHz)                                                     |
| 164800-166300-167800(NR Band n26 BW=20MHz)                                                     |
| 516000-519000-520000(NR Band n38 BW=20MHz)                                                     |
| 517000-519000-521000(NR Band n38 BW=30MHz)                                                     |
| 518000-519000-522000(NR Band n38 BW=40MHz)                                                     |
| 501204-509904-518598-527298-535998(NR Band n41 BW=20MHz)                                       |
| 502200-510402-518598-526800-534996(NR Band n41 BW=30MHz)                                       |
| 503202-510900-518598-526302-534000(NR Band n41 BW=40MHz)                                       |
| 504204-511404-518598-525798-532998(NR Band n41 BW=50MHz)                                       |
| 505200-511902-518598-525300-531996(NR Band n41 BW=60MHz)                                       |
| 506202-512400-518598-524802-531000(NR Band n41 BW=70MHz)                                       |
| 507204-512904-518598-524298-529998(NR Band n41 BW=80MHz)                                       |
| 508200-513402-518598-523800-528996(NR Band n41 BW=90MHz)                                       |
| 509202-513900-518598-523302-528000(NR Band n41 BW=100MHz)                                      |
| 342500-349000-355500(NR Band n66 BW=5MHz)                                                      |
| 343000-349000-355000(NR Band n66 BW=10MHz)                                                     |
| 343500-349000-354500(NR Band n66 BW=15MHz)                                                     |
| 344000-349000-354000(NR Band n66 BW=20MHz)                                                     |
| 345000-349000-353000(NR Band n66 BW=30MHz)                                                     |
| 346000-349000-352000(NR Band n66 BW=40MHz)                                                     |
| 346000-349000-352000(NR Band n66 BW=40MHz)                                                     |
| 633334-647334-650800-654268-657734-661200-664666(NR Band n77 BW=20MHz)                         |
| 633334-647666-651000-654334-657666-661000-664334(NR Band n77 BW=30MHz)                         |
| 633334-648000-651200-654400-657600-660800-664000(NR Band n77 BW=40MHz)                         |
| 633334-648334-651400-654468-657534-660600-663666(NR Band n77 BW=50MHz)                         |
| 633334-648668-651600-654534-657468-660400-663332(NR Band n77 BW=60MHz)                         |
| 633334-649001-651800-654601-657401-660200-662999(NR Band n77 BW=70MHz)                         |
| 633334-649334-652000-654668-657334-660000-662666(NR Band n77 BW=80MHz)                         |
| 633334-649668-652200-654734-657268-659800-662332(NR Band n77 BW=90MHz)                         |
| 633334-650000-652400-654800-657200-659600-662000(NR Band n77 BW=100MHz)                        |
| 633334-650000(NR Band n78 BW=20/30/40/50/60/70/80/90/100MHz)                                   |
| 20M:1-6-11 (WiFi 2.4G)                                                                         |
| 40M:3-6-9 (WiFi 2.4G)                                                                          |
| 20M: 36-40-44-48-52-56-60-64-100-104-108-112-116-132-136-140-144-149-153-157-161-165 (WiFi 5G) |
| 40M: 38-46-54-62-102-110-134-142-151-159 (WiFi 5G)                                             |



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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 80M: 42-58-106-138-155 (WiFi 5G) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 160M: 50 (WiFi 5G)               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0-39-78 (BT)                     |
| <p>Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</p> <p>Remark:<br/>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p> |                                  |

**Note:**

- 1) When the user makes a call in the head scene and triggers the sensor distance mechanism, GSM1900, WCDMA B2/4, LTE B2/4/7/66 and NR N2/66 at Antenna 15 cannot be transmitted, so the Head SAR test for GSM1900, WCDMA B2/4, LTE B2/4/7/66 and NR N2/66 at Antenna 15 were not required.
- 2) Wi-Fi 5G does not support TDWR channel (CH:114/118/120/122/124/126/128).



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#### 1.4.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix F

Note:

- 1) The test device is a smart phone. The overall diagonal dimension of this device is 177mm. Per KDB 648474 D04, because the diagonal distance of this device is  $\geq 160\text{mm}$ , so it is a phablet.

According to the distance between NR/LTE/CDMA/WCDMA/GSM/WIFI/BT antennas and the sides of the EUT we can draw the conclusion that:

| Distance of the Antenna to the EUT surface/edge |                    |                    |                    |                    |                    |                    |
|-------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Mode                                            | Front              | Back               | Left               | Right              | Top                | Bottom             |
| Ant11                                           | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $> 25\text{mm}$    | $> 25\text{mm}$    | $> 25\text{mm}$    |
| Ant12                                           | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $> 25\text{mm}$    | $\leq 25\text{mm}$ | $> 25\text{mm}$    |
| Ant13                                           | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $> 25\text{mm}$    | $\leq 25\text{mm}$ | $> 25\text{mm}$    |
| Ant14                                           | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $> 25\text{mm}$    | $\leq 25\text{mm}$ | $> 25\text{mm}$    |
| Ant15                                           | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $> 25\text{mm}$    | $\leq 25\text{mm}$ | $> 25\text{mm}$    |
| Ant21                                           | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $> 25\text{mm}$    |
| Ant22                                           | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $> 25\text{mm}$    | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $> 25\text{mm}$    |
| Ant23                                           | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $> 25\text{mm}$    | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $> 25\text{mm}$    |
| Ant24                                           | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $> 25\text{mm}$    | $\leq 25\text{mm}$ | $> 25\text{mm}$    | $> 25\text{mm}$    |
| Ant31                                           | $\leq 25\text{mm}$ | $\leq 25\text{mm}$ | $> 25\text{mm}$    | $\leq 25\text{mm}$ | $> 25\text{mm}$    | $\leq 25\text{mm}$ |

Table 1: Distance of the Antenna to the EUT surface/edge

Note:

- 1) When the antenna-to-edge distance is greater than 25mm, such position does not need to be tested.



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**1.4.2 Smart Transmit feature for RF Exposure compliance**

The RF exposure limit is defined based on time-averaged RF exposure. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmit power for WWAN transmitter to ensure the product in compliance with RF exposure limit over a defined time window, for SAR (transmit frequency  $\leq 6$ GHz). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

Note: GSM/CDMA/WCDMA/LTE Standalone/NR SA are configured for peak exposure mode, but NSA and Inter band UL CA are not peak exposure mode.

The parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for Smart Transmit. SAR char will be entered via the Embedded File System (EFS) to enable the Smart Transmit Feature.

## &lt;Terminologies in this report&gt;

|                   |                                                                                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------|
| $P_{limit}$       | The time-averaged RF power which corresponds to SAR_design_target                                                              |
| $P_{max}$         | Maximum tune-up power level                                                                                                    |
| SAR_design_target | The design target for SAR compliance. It should be less than SAR limit to account for all device design related uncertainties. |
| SAR char          | $P_{limit}$ for all the technologies/bands                                                                                     |

## &lt;SAR Characterization&gt;

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at 6 GHz or below. It will then be used as input for Smart Transmit to control and manage RF exposure for  $f < 6$  GHz.

**SAR\_design\_target and Uncertainty**

SAR\_design\_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer.

$$SAR\_design\_target < SAR_{regulatory\_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

| Uncertainty dB (k=2) | All Band |
|----------------------|----------|
| Total uncertainty    | 1.49     |

| Exposure position | Frequency band | SAR_Regulatory_Limit<br>W/kg(1g) | SAR_design_target<br>W/kg(1g) |
|-------------------|----------------|----------------------------------|-------------------------------|
| Head              | WWAN           | 1.6                              | 0.8                           |
| Body worn         | WWAN           | 1.6                              | 0.8                           |
| Hotspot           | WWAN           | 1.6                              | 0.55                          |

| Exposure position       | Frequency band | SAR_Regulatory_Limit<br>W/kg(10g) | SAR_design_target<br>W/kg(1g) |
|-------------------------|----------------|-----------------------------------|-------------------------------|
| Product specific 10gSAR | WWAN           | 4.0                               | 2.5                           |



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The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR\_design\_target, below the predefined time-averaged power limit, for each characterized technology and band.

Smart Transmit allows the device to transmit at higher power instantaneously, as high as  $P_{\max}$ , when needed, but enforces power limiting to maintain time-averaged transmit power to  $P_{\text{limit}}$ . Below table shows  $P_{\text{limit}}$  EFS settings and maximum tune up output power  $P_{\max}$  configured for this EUT for various transmit conditions (DSI: Device State Index).

**$P_{\text{limit}}$  for supported technologies and bands (actual EFS settings)**

| Band     | Mode     | Antenna | $P_{\max}^*$ | $P_{\text{limit}}$ (average) |                    |             |                     |
|----------|----------|---------|--------------|------------------------------|--------------------|-------------|---------------------|
|          |          |         |              | FCC Head                     | FCC Body Sensor On | FCC Hotspot | FCC Body Sensor off |
|          |          |         |              | DSI 2                        | DSI 4              | DSI 6       | DSI 7               |
| GSM 850  | GSM      | 11#     | 32.7         | /                            | /                  | /           | 32.7                |
|          | GPRS 2TS |         | 30.3         | 30.3                         | 30.3               | 30.3        | /                   |
| GSM 850  | GSM      | 41#     | 32.7         | /                            | /                  | /           | 32.7                |
|          | GPRS 2TS |         | 30.3         | 30.3                         | 30.3               | 30.3        | /                   |
| GSM 1900 | GSM      | 15#     | 30.0         | /                            | /                  | /           | 30.0                |
|          | GPRS 2TS |         | 27.0         | /                            | 27.0               | 27.0        | /                   |
| GSM 1900 | GSM      | 31#     | 30.0         | /                            | /                  | /           | 30.0                |
|          | GPRS 2TS |         | 27.5         | 27.5                         | 27.5               | /           | /                   |
|          | GPRS 4TS |         | 23.0         | /                            | /                  | 22.5        | /                   |
| WCDMA_B2 | RMC      | 15#     | 22.8         | /                            | 21.8               | 20.3        | 21.8                |
|          | RMC      | 31#     | 23.0         | 23.0                         | 20.5               | 19.0        | 20.5                |
| WCDMA_B4 | RMC      | 15#     | 22.8         | /                            | 21.0               | 19.0        | 21.0                |
|          | RMC      | 31#     | 23.0         | 24.0                         | 22.0               | 18.5        | 22.0                |
| WCDMA_B5 | RMC      | 11#     | 24.3         | 23.8                         | 24.3               | 23.8        | 24.3                |
|          | RMC      | 41#     | 24.0         | 24.0                         | 24.0               | 23.5        | 24.0                |
| CDMA_BC0 | RTT/EVDO | 11#     | 23.7         | 23.2                         | 23.7               | 23.2        | 23.7                |
|          | RTT/EVDO | 41#     | 23.5         | 23.5                         | 23.5               | 23.0        | 23.5                |
| LTE_B2   | QPSK     | 15#     | 22.8         | /                            | 22.3               | 20.3        | 22.3                |
|          | QPSK     | 31#     | 23.0         | 23.0                         | 21.0               | 19.5        | 21.0                |
| LTE_B4   | QPSK     | 12#     | 23.5         | 23.5                         | 23.5               | 23.5        | 23.5                |
|          | QPSK     | 15#     | 23.3         | /                            | 21.3               | 19.8        | 21.3                |
|          | QPSK     | 31#     | 23.5         | 23.5                         | 22.5               | 19.0        | 22.5                |
| LTE_B5   | QPSK     | 11#     | 24.0         | 24.0                         | 24.0               | 24.0        | 24.0                |
|          | QPSK     | 41#     | 24.0         | 24.0                         | 24.0               | 24.0        | 24.0                |
| LTE_B7   | QPSK     | 12#     | 23.0         | 19.5                         | 21.5               | 20.0        | 23.0                |
|          | QPSK     | 15#     | 22.3         | /                            | 21.8               | 20.3        | 21.8                |
|          | QPSK     | 31#     | 23.0         | 23.0                         | 21.5               | 20.0        | 21.5                |
| LTE_B12  | QPSK     | 11#     | 24.5         | 24.5                         | 24.5               | 24.5        | 24.5                |
|          | QPSK     | 41#     | 24.3         | 24.3                         | 24.3               | 23.8        | 24.3                |
| LTE_B13  | QPSK     | 11#     | 24.5         | 24.5                         | 24.5               | 24.5        | 24.5                |
|          | QPSK     | 41#     | 24.3         | 24.3                         | 24.3               | 24.3        | 24.3                |
| LTE_B17  | QPSK     | 11#     | 24.5         | 24.5                         | 24.5               | 24.5        | 24.5                |
|          | QPSK     | 41#     | 24.3         | 24.3                         | 24.3               | 23.8        | 24.3                |
| LTE_B18  | QPSK     | 11#     | 24.0         | 24.0                         | 24.0               | 24.0        | 24.0                |
|          | QPSK     | 41#     | 24.0         | 24.0                         | 24.0               | 24.0        | 24.0                |
| LTE_B19  | QPSK     | 11#     | 24.0         | 24.0                         | 24.0               | 24.0        | 24.0                |
|          | QPSK     | 41#     | 24.0         | 24.0                         | 24.0               | 24.0        | 24.0                |



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|          |      |     |      |      |      |      |      |
|----------|------|-----|------|------|------|------|------|
| LTE_B26  | QPSK | 11# | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 |
|          | QPSK | 41# | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 |
| LTE_B38  | QPSK | 15# | 23.3 | 16.8 | 23.3 | 22.3 | 23.3 |
|          | QPSK | 31# | 24.0 | 24.0 | 23.0 | 21.5 | 23.0 |
| LTE_B41  | QPSK | 15# | 23.3 | 16.8 | 23.3 | 22.3 | 23.3 |
|          | QPSK | 31# | 24.0 | 24.0 | 23.5 | 22.0 | 23.5 |
| LTE_B66  | QPSK | 15# | 23.3 | /    | 21.8 | 19.3 | 21.8 |
|          | QPSK | 31# | 23.5 | 23.5 | 21.5 | 19.0 | 21.5 |
| NR5G_N2  | QPSK | 15# | 22.5 | /    | 21.5 | 20.0 | 21.5 |
|          | QPSK | 31# | 23.0 | 23.0 | 21.0 | 19.0 | 21.0 |
| NR5G_N5  | QPSK | 11# | 24.0 | 24.0 | 24.0 | 23.5 | 24.0 |
|          | QPSK | 41# | 24.0 | 24.0 | 24.0 | 23.0 | 24.0 |
| NR5G_N7  | QPSK | 12# | 23.0 | 19.5 | 20.5 | 19.5 | 23.0 |
|          | QPSK | 15# | 22.5 | 14.0 | 21.0 | 19.5 | 21.0 |
| NR5G_N26 | QPSK | 11# | 24.0 | 24.0 | 24.0 | 23.5 | 24.0 |
|          | QPSK | 41# | 24.0 | 24.0 | 24.0 | 23.0 | 24.0 |
| NR5G_N38 | QPSK | 12# | 24.0 | 20.0 | 21.0 | 19.5 | 24.0 |
|          | QPSK | 23# | 23.0 | 18.0 | 20.5 | 19.0 | 20.5 |
| NR5G_N41 | QPSK | 12# | 24.5 | 20.5 | 21.5 | 20.0 | 24.5 |
|          | QPSK | 23# | 23.5 | 17.0 | 20.0 | 18.5 | 20.0 |
| NR5G_N66 | QPSK | 12# | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |
|          | QPSK | 15# | 23.5 | /    | 21.5 | 19.5 | 21.5 |
|          | QPSK | 31# | 23.5 | 23.5 | 21.5 | 18.5 | 21.5 |
| NR5G_N77 | QPSK | 13# | 23.5 | 17.5 | 17.0 | 15.5 | 23.5 |
|          | QPSK | 23# | 20.5 | 16.5 | 18.0 | 16.5 | 18.0 |
| NR5G_N78 | QPSK | 13# | 25.7 | 17.2 | 17.2 | 15.7 | 24.2 |
|          | QPSK | 23# | 22.0 | 16.5 | 18.5 | 17.0 | 18.5 |

Note:

- 1)  $P_{\max}$  is used for RF tune up procedure. The maximum allowed output power is equal to  $P_{\max} + \text{Total uncertainty}$ .
- 2) The max allowed output power is the  $P_{\text{limit}} + \text{Total uncertainty}$ , and if  $P_{\text{limit}}$  is higher than  $P_{\max}$ , the device output power will be  $P_{\max}$  instead.
- 3) Note that WLAN operations are not enabled with Smart Transmit.

The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.



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### 1.4.3 Power reduction specification

This device uses a single fixed level of power reduction through static table look-up for SAR compliance and it is triggered by a single event or operation

- 1) A fixed level power reduction is applied for some frequency bands when hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.
- 2) A fixed level power reduction is applied for some WWAN frequency bands when simultaneously transmitting with the WLAN antennas in certain simultaneous transmission conditions.
- 3) A fixed level power reduction is applied for WLAN frequency bands when simultaneously transmitting with the WWAN antennas in certain simultaneous transmission conditions. \*
- 4) This device uses the receiver to indicate whether the user is making a voice call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. A fixed level power reduction is applied for some frequency bands when the audio receiver is on.
- 5) The proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance (Refer to section 5.4 for detailed proximity Sensor information and validation data per KDB 616217).
- 6) This device uses the mobile country code (MCC) detection mechanism to indicate whether the users in CE countries and FCC countries in set the relevant power level for some bands. The selection between different power levels is based on the country code detection mechanism. In this report for SAR test at the power level of FCC mobile country code for each exposure conditions.

The detailed power reduction information can be referred to Appendix E (Conducted RF Output Power).

Note: \* We have verified that all these cellular band triggered Wi-Fi and Bluetooth power configurations for Cell\_ON and Cell\_OFF with respect to the different antennas (UAT, LAT, upper Wi-Fi and lower Wi-Fi etc.) in head and body exposure (also hotspot mode) conditions as well as UL CA have been verified to trigger and operate correctly with the intended maximum output power levels in simulated normal operating conditions (i.e., using a callbox).



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## 1.5 Test Specification

| Identity             | Document Title                                                                                                                                                              |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC 47CFR §2.1093    | Radiofrequency Radiation Exposure Evaluation: Portable Devices                                                                                                              |
| ANSI/IEEE C95.1-1992 | IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.                                                  |
| IEEE 1528-2013       | Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques |
| KDB 941225 D01       | 3G SAR Measurement Procedures v03r01                                                                                                                                        |
| KDB 941225 D05       | SAR for LTE Devices v02r05                                                                                                                                                  |
| KDB 941225 D05A      | LTE Rel.10 KDB Inquiry Sheet v01r02                                                                                                                                         |
| KDB 941225 D06       | Hotspot Mode SAR v02r01                                                                                                                                                     |
| KDB 248227 D01       | SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02                                                                                                                               |
| KDB 648474 D04       | Handset SAR v01r03                                                                                                                                                          |
| KDB 447498 D01       | General RF Exposure Guidance v06                                                                                                                                            |
| KDB 865664 D01       | SAR Measurement 100 MHz to 6 GHz v01r04                                                                                                                                     |
| KDB 865664 D02       | RF Exposure Reporting v01r02                                                                                                                                                |
| KDB 690783 D01       | SAR Listings on Grants v01r03                                                                                                                                               |
| KDB 616217 D04       | SAR for laptop and tablets v01r02                                                                                                                                           |



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## 1.6 RF exposure limits

| Human Exposure                                         | Uncontrolled Environment<br>General Population | Controlled Environment<br>Occupational |
|--------------------------------------------------------|------------------------------------------------|----------------------------------------|
| <b>Spatial Peak SAR*</b><br>(Brain*Trunk)              | 1.60 mW/g                                      | 8.00 mW/g                              |
| <b>Spatial Average SAR**</b><br>(Whole Body)           | 0.08 mW/g                                      | 0.40 mW/g                              |
| <b>Spatial Peak SAR***</b><br>(Hands/Feet/Ankle/Wrist) | 4.00 mW/g                                      | 20.00 mW/g                             |

### Notes:

\* The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

\*\* The Spatial Average value of the SAR averaged over the whole body.

\*\*\* The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

**Uncontrolled Environments** are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

**Controlled Environments** are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.)



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## 2 Laboratory Environment

|                                                                                                 |                           |
|-------------------------------------------------------------------------------------------------|---------------------------|
| Temperature                                                                                     | Min. = 18°C, Max. = 25 °C |
| Relative humidity                                                                               | Min. = 30%, Max. = 70%    |
| Ambient noise is checked and found very low and in compliance with requirement of standards.    |                           |
| Reflection of surrounding objects is minimized and in compliance with requirement of standards. |                           |

Table 2: The Ambient Conditions



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- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

### 3.2 Isotropic E-field Probe EX3DV4

|                                                                                    |                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Symmetrical design with triangular core<br/>Built-in shielding against static charges<br/>PEEK enclosure material (resistant to organic solvents, e.g., DGBE)</p>                                          |
| <b>Calibration</b>                                                                 | ISO/IEC 17025 <u>calibration service</u> available.                                                                                                                                                           |
| <b>Frequency</b>                                                                   | 10 MHz to > 6 GHz<br>Linearity: $\pm 0.2$ dB (30 MHz to 6 GHz)                                                                                                                                                |
| <b>Directivity</b>                                                                 | $\pm 0.3$ dB in TSL (rotation around probe axis)<br>$\pm 0.5$ dB in TSL (rotation normal to probe axis)                                                                                                       |
| <b>Dynamic Range</b>                                                               | 10 $\mu$ W/g to > 100 mW/g<br>Linearity: $\pm 0.2$ dB (noise: typically < 1 $\mu$ W/g)                                                                                                                        |
| <b>Dimensions</b>                                                                  | Overall length: 337 mm (Tip: 20 mm)<br>Tip diameter: 2.5 mm (Body: 12 mm)<br>Typical distance from probe tip to dipole centers: 1 mm                                                                          |
| <b>Application</b>                                                                 | High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%. |
| <b>Compatibility</b>                                                               | DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI                                                                                                                                                                |



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### 3.3 Data Acquisition Electronics (DAE)

|                             |                                                                                                                                                                                                                                                        |                                                                                     |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Model</b>                | DAE                                                                                                                                                                                                                                                    |  |
| <b>Construction</b>         | Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop. |                                                                                     |
| <b>Measurement Range</b>    | -100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)                                                                                                                                                                                  |                                                                                     |
| <b>Input Offset Voltage</b> | < 5μV (with auto zero)                                                                                                                                                                                                                                 |                                                                                     |
| <b>Input Bias Current</b>   | < 50 f A                                                                                                                                                                                                                                               |                                                                                     |
| <b>Dimensions</b>           | 60 x 60 x 68 mm                                                                                                                                                                                                                                        |                                                                                     |

### 3.4 SAM Twin Phantom

|                                          |                                                                       |                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Material</b>                          | Vinylester, glass fiber reinforced (VE-GF)                            |  |
| <b>Liquid Compatibility</b>              | Compatible with all SPEAG tissue simulating liquids (incl. DGBE type) |                                                                                     |
| <b>Shell Thickness</b>                   | 2 ± 0.2 mm (6 ± 0.2 mm at ear point)                                  |                                                                                     |
| <b>Dimensions (incl. Wooden Support)</b> | Length: 1000 mm<br>Width: 500 mm<br>Height: adjustable feet           |                                                                                     |
| <b>Filling Volume</b>                    | approx. 25 liters                                                     |                                                                                     |
| <b>Wooden Support</b>                    | SPEAG standard phantom table                                          |                                                                                     |

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.

### 3.5 ELI Phantom

|                             |                                                                       |
|-----------------------------|-----------------------------------------------------------------------|
| <b>Material</b>             | Vynlester, glass fiber reinforced (VE-GF)                             |
| <b>Liquid Compatibility</b> | Compatible with all SPEAG tissue simulating liquids (incl. DGBE type) |
| <b>Shell Thickness</b>      | 2.0 ± 0.2 mm (bottom plate)                                           |
| <b>Dimensions</b>           | Major axis: 600 mm<br>Minor axis: 400 mm                              |
| <b>Filling Volume</b>       | approx. 30 liters                                                     |
| <b>Wooden Support</b>       | SPEAG standard phantom table                                          |



Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.



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### 3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity  $\epsilon=3$  and loss tangent  $\delta=0.02$ . The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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### 3.7 Measurement procedure

#### 3.7.1 Scanning procedure

##### Step 1: Power reference measurement

The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

##### Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm\*15mm or 12mm\*12mm or 10mm\*10mm. Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

##### Step 3: Zoom scan

Around this point, a volume of 32mm\*32mm\*30mm ( $f \leq 2\text{GHz}$ ), 30mm\*30mm\*30mm ( $f$  for 2-3GHz) and 24mm\*24mm\*22mm ( $f$  for 5-6GHz) was assessed by measuring 5x5x7 points ( $f \leq 2\text{GHz}$ ), 7x7x7 points ( $f$  for 2-3GHz) and 7x7x12 points ( $f$  for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.



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|                                                                                                        |                                                                                                            | $\leq 3 \text{ GHz}$                                                                                                                                                                                                                                                   | $> 3 \text{ GHz}$                                                                                                             |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface |                                                                                                            | $5 \pm 1 \text{ mm}$                                                                                                                                                                                                                                                   | $\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$                                                                    |
| Maximum probe angle from probe axis to phantom surface normal at the measurement location              |                                                                                                            | $30^\circ \pm 1^\circ$                                                                                                                                                                                                                                                 | $20^\circ \pm 1^\circ$                                                                                                        |
| Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$                 |                                                                                                            | $\leq 2 \text{ GHz}: \leq 15 \text{ mm}$<br>$2 - 3 \text{ GHz}: \leq 12 \text{ mm}$                                                                                                                                                                                    | $3 - 4 \text{ GHz}: \leq 12 \text{ mm}$<br>$4 - 6 \text{ GHz}: \leq 10 \text{ mm}$                                            |
|                                                                                                        |                                                                                                            | When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device. |                                                                                                                               |
| Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$                 |                                                                                                            | $\leq 2 \text{ GHz}: \leq 8 \text{ mm}$<br>$2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$                                                                                                                                                                                    | $3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$<br>$4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$                                          |
| Maximum zoom scan spatial resolution, normal to phantom surface                                        | uniform grid: $\Delta z_{\text{Zoom}}(n)$                                                                  | $\leq 5 \text{ mm}$                                                                                                                                                                                                                                                    | $3 - 4 \text{ GHz}: \leq 4 \text{ mm}$<br>$4 - 5 \text{ GHz}: \leq 3 \text{ mm}$<br>$5 - 6 \text{ GHz}: \leq 2 \text{ mm}$    |
|                                                                                                        | graded grid<br>$\Delta z_{\text{Zoom}}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface | $\leq 4 \text{ mm}$                                                                                                                                                                                                                                                    | $3 - 4 \text{ GHz}: \leq 3 \text{ mm}$<br>$4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$<br>$5 - 6 \text{ GHz}: \leq 2 \text{ mm}$  |
|                                                                                                        | $\Delta z_{\text{Zoom}}(n>1)$ : between subsequent points                                                  | $\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$                                                                                                                                                                                                                           |                                                                                                                               |
| Minimum zoom scan volume                                                                               | x, y, z                                                                                                    | $\geq 30 \text{ mm}$                                                                                                                                                                                                                                                   | $3 - 4 \text{ GHz}: \geq 28 \text{ mm}$<br>$4 - 5 \text{ GHz}: \geq 25 \text{ mm}$<br>$5 - 6 \text{ GHz}: \geq 22 \text{ mm}$ |

#### Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max.  $\pm 5 \%$



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### 3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

### 3.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

|                           |                |                      |
|---------------------------|----------------|----------------------|
| Probe parameters:         | - Sensitivity  | Normi, ai0, ai1, ai2 |
| - Conversion factor       | ConvFi         |                      |
| - Diode compression point | Dcpi           |                      |
| Device parameters:        | - Frequency    | f                    |
| - Crest factor            | cf             |                      |
| Media parameters:         | - Conductivity | ε                    |
| - Density                 | ρ              |                      |

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf / dcpi$$

With  $V_i$  = compensated signal of channel i (i = x, y, z)

$U_i$  = input signal of channel i (i = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcpi = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes:

$$E_i = (V_i / Normi \cdot ConvF)^{1/2}$$



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H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2) / f$$

With  $V_i$  = compensated signal of channel i (i = x, y, z)

Normi = sensor sensitivity of channel i (i = x, y, z)

[mV/(V/m)<sup>2</sup>] for E-field Probes

ConvF = sensitivity enhancement in solution

a<sub>ij</sub> = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

E<sub>i</sub> = electric field strength of channel i in V/m

H<sub>i</sub> = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (E_{tot}^2 \cdot \sigma) / (\epsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

E<sub>tot</sub> = total field strength in V/m

σ = conductivity in [mho/m] or [Siemens/m]

ε = equivalent tissue density in g/cm<sup>3</sup>

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 / 3770 \text{ or } P_{pwe} = H_{tot}^2 \cdot 37.7$$

with P<sub>pwe</sub> = equivalent power density of a plane wave in mW/cm<sup>2</sup>

E<sub>tot</sub> = total electric field strength in V/m

H<sub>tot</sub> = total magnetic field strength in A/m



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## 4 SAR measurement variability and uncertainty

### 4.1 SAR measurement variability

Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is  $< 0.80$  W/kg; steps 2) through 4) do not apply.
  - 2) When the original highest measured SAR is  $\geq 0.80$  W/kg, repeat that measurement once.
  - 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is  $> 1.20$  or when the original or repeated measurement is  $\geq 1.45$  W/kg ( $\sim 10\%$  from the 1-g SAR limit).
  - 4) Perform a third repeated measurement only if the original, first or second repeated measurement is  $\geq 1.5$  W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ .
- The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

### 4.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is  $< 1.5$  W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.



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## 5 Description of Test Position

### 5.1 Head Exposure Condition

#### 5.1.1 SAM Phantom Shape

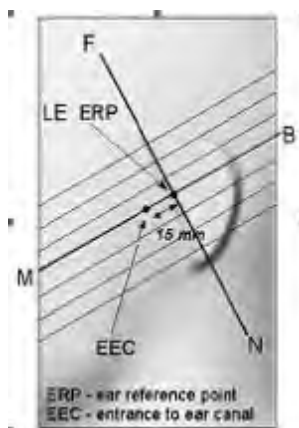


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

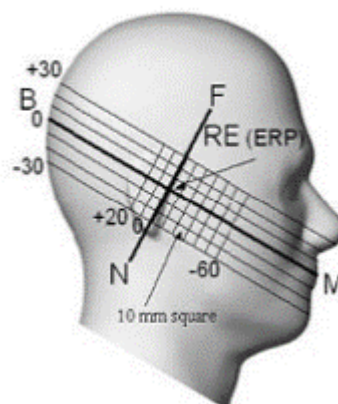
Note: The centre strip including the nose region has a different thickness tolerance.



F-4. Sagittally bisected phantom with extended perimeter (shown placed on its side as used for SAR measurements)

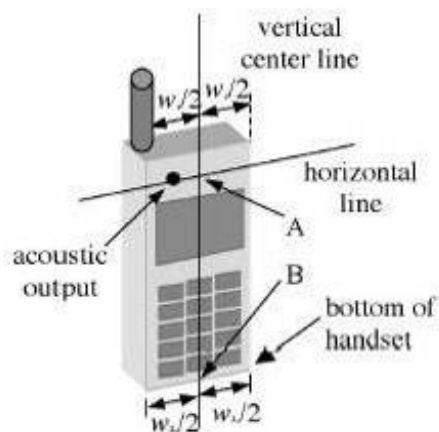


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

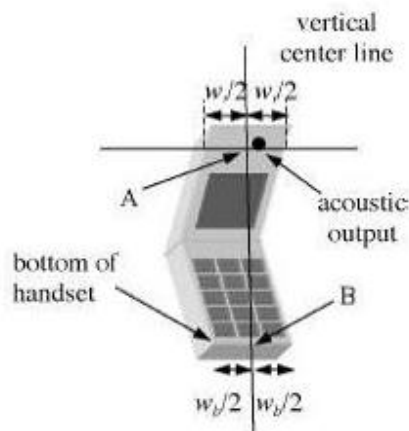


F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations

## 5.1.2 EUT constructions



F-7. Handset vertical and horizontal reference lines-"fixed case"



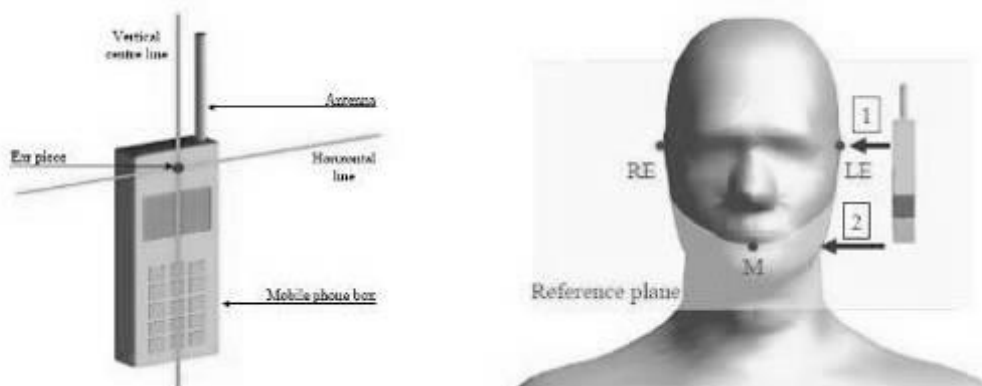
F-8. Handset vertical and horizontal reference lines-"clam-shell case"

## 5.1.3 Definition of the "cheek" position

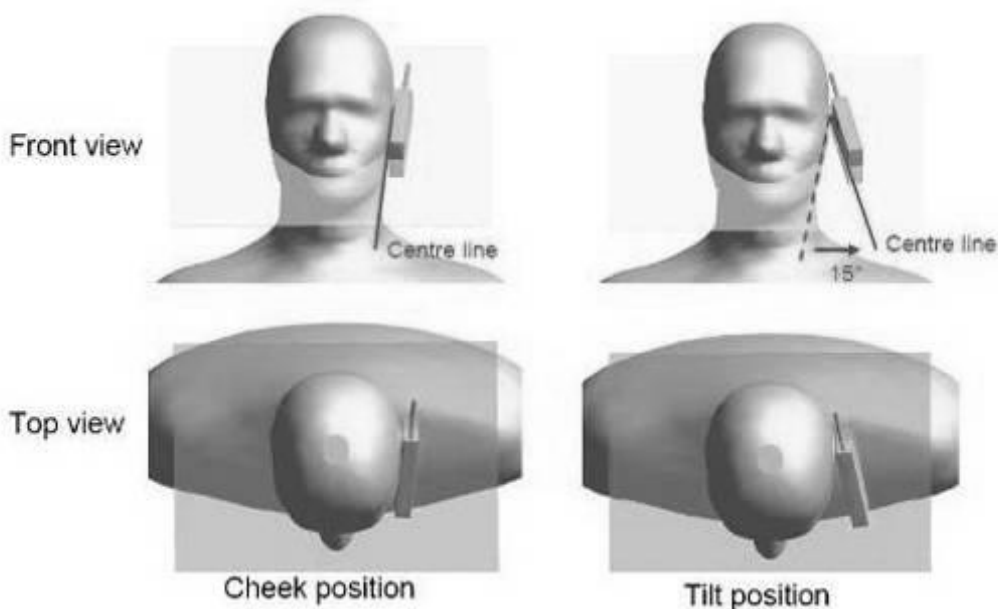
- Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom ("initial position"). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.
- Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.

## 5.1.4 Definition of the “tilted” position

- Position the device in the “cheek” position described above.
- While maintaining the device in the reference plane described above and pivoting against the ear, move it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.



F-9. Definition of the reference lines and points, on the phone and on the phantom and initial position



F-10. “Cheek” and “tilt” positions of the mobile phone on the left side

## 5.2 Body Exposure Condition

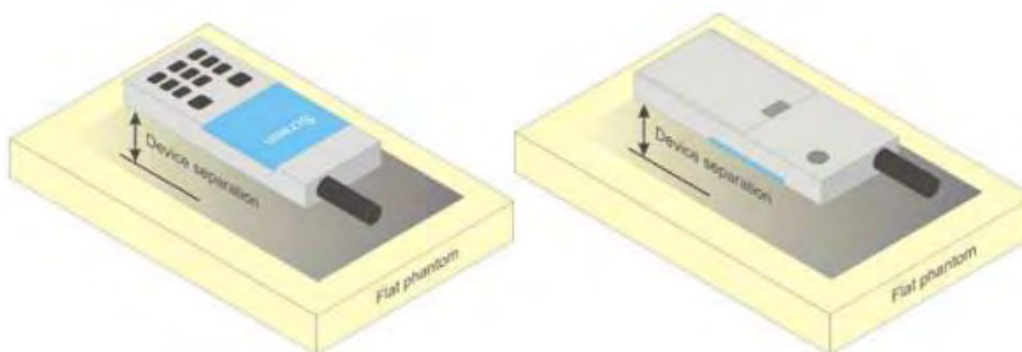
### 5.2.1 Body-worn accessory exposure conditions

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per FCC KDB Publication 648474 D04, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is  $> 1.2$  W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.



F-11. Test positions for body-worn devices



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## 5.2.2 Wireless Router exposure conditions

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets ( $L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$ ) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed-use conditions for this type of devices. For devices with form factors smaller than  $9 \text{ cm} \times 5 \text{ cm}$ , a test separation distance of 5 mm is required.

## 5.3 Extremity exposure conditions

Per FCC KDB 648474D04, for smart phones with a display diagonal dimension  $> 15.0 \text{ cm}$  or an overall diagonal dimension  $> 16.0 \text{ cm}$  that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as "Phablet". The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at  $\leq 25 \text{ mm}$  from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR  $> 1.2 \text{ W/kg}$ ; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the  $1.2 \text{ W/kg}$  SAR test reduction threshold.

Due to the SAR result, only the following frequency bands need to test with 0mm for the Product Specific 10-g SAR, the others are not required.

### N77 (Ant13):

#### 3450-3550:

| Test position                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Product Specific 10-g SAR Exclusion |
|-----------------------------------------|-----|-------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|-------------------------------------|
| Hotspot Test data (Separate 10mm 1RB)   |     |             |                |            |                |                  |                      |                    |               |                       |                                     |
| Front side                              | 100 | QPSK 1_271  | 633334/3500    | 100%       | 0.050          | 0.01             | 16.03                | 24.50              | 7.031         | 0.354                 | Yes                                 |
| Back side                               | 100 | QPSK 1_271  | 633334/3500    | 100%       | 0.145          | 0.09             | 16.03                | 24.50              | 7.031         | 1.019                 | Yes                                 |
| Left side                               | 100 | QPSK 1_271  | 633334/3500    | 100%       | 0.251          | 0.02             | 16.03                | 24.50              | 7.031         | 1.765                 | No                                  |
| Top side                                | 100 | QPSK 1_271  | 633334/3500    | 100%       | 0.153          | 0.04             | 16.03                | 24.50              | 7.031         | 1.076                 | Yes                                 |
| Hotspot Test data (Separate 10mm 50%RB) |     |             |                |            |                |                  |                      |                    |               |                       |                                     |
| Front side                              | 100 | QPSK 135_69 | 633334/3500    | 100%       | 0.045          | 0.02             | 15.89                | 24.50              | 7.261         | 0.329                 | Yes                                 |
| Back side                               | 100 | QPSK 135_69 | 633334/3500    | 100%       | 0.132          | 0.15             | 15.89                | 24.50              | 7.261         | 0.958                 | Yes                                 |
| Left side                               | 100 | QPSK 135_69 | 633334/3500    | 100%       | 0.169          | 0.08             | 15.89                | 24.50              | 7.261         | 1.227                 | No                                  |
| Top side                                | 100 | QPSK 135_69 | 633334/3500    | 100%       | 0.104          | 0.07             | 15.89                | 24.50              | 7.261         | 0.755                 | Yes                                 |



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**N77 (Ant13):**  
**3700-3980:**

| Test position                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Product Specific 10-g SAR Exclusion |
|-----------------------------------------|-----|-------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|-------------------------------------|
| Hotspot Test data (Separate 10mm 1RB)   |     |             |                |            |                |                  |                      |                    |               |                       |                                     |
| Front side                              | 100 | QPSK 1_137  | 659600/3894    | 100%       | 0.031          | 0.09             | 16.07                | 24.50              | 6.966         | 0.219                 | Yes                                 |
| Back side                               | 100 | QPSK 1_137  | 659600/3894    | 100%       | 0.137          | 0.03             | 16.07                | 24.50              | 6.966         | 0.954                 | Yes                                 |
| Left side                               | 100 | QPSK 1_137  | 659600/3894    | 100%       | 0.211          | 0.03             | 16.07                | 24.50              | 6.966         | 1.470                 | No                                  |
| Top side                                | 100 | QPSK 1_137  | 659600/3894    | 100%       | 0.081          | 0.09             | 16.07                | 24.50              | 6.966         | 0.562                 | Yes                                 |
| Hotspot Test data (Separate 10mm 50%RB) |     |             |                |            |                |                  |                      |                    |               |                       |                                     |
| Front side                              | 100 | QPSK 135_69 | 659600/3894    | 100%       | 0.023          | -0.05            | 16.03                | 24.50              | 7.031         | 0.161                 | Yes                                 |
| Back side                               | 100 | QPSK 135_69 | 659600/3894    | 100%       | 0.107          | 0.04             | 16.03                | 24.50              | 7.031         | 0.752                 | Yes                                 |
| Left side                               | 100 | QPSK 135_69 | 659600/3894    | 100%       | 0.142          | 0.06             | 16.03                | 24.50              | 7.031         | 0.998                 | Yes                                 |
| Top side                                | 100 | QPSK 135_69 | 659600/3894    | 100%       | 0.066          | 0.10             | 16.03                | 24.50              | 7.031         | 0.461                 | Yes                                 |

**N78 (Ant13):**  
**3450-3550:**

| Test position                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Product Specific 10-g SAR Exclusion |
|-----------------------------------------|-----|-------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|-------------------------------------|
| Hotspot Test data (Separate 10mm 1RB)   |     |             |                |            |                |                  |                      |                    |               |                       |                                     |
| Front side                              | 100 | QPSK 1_271  | 633334/3500    | 100%       | 0.076          | 0.06             | 15.97                | 26.70              | 11.830        | 0.897                 | Yes                                 |
| Back side                               | 100 | QPSK 1_271  | 633334/3500    | 100%       | 0.256          | 0.02             | 15.97                | 26.70              | 11.830        | 3.029                 | No                                  |
| Left side                               | 100 | QPSK 1_271  | 633334/3500    | 100%       | 0.395          | 0.03             | 15.97                | 26.70              | 11.830        | 4.673                 | No                                  |
| Top side                                | 100 | QPSK 1_271  | 633334/3500    | 100%       | 0.211          | 0.07             | 15.97                | 26.70              | 11.830        | 2.496                 | No                                  |
| Hotspot Test data (Separate 10mm 50%RB) |     |             |                |            |                |                  |                      |                    |               |                       |                                     |
| Front side                              | 100 | QPSK 135_69 | 633334/3500    | 100%       | 0.077          | 0.09             | 15.95                | 26.70              | 11.885        | 0.910                 | Yes                                 |
| Back side                               | 100 | QPSK 135_69 | 633334/3500    | 100%       | 0.208          | 0.04             | 15.95                | 26.70              | 11.885        | 2.472                 | No                                  |
| Left side                               | 100 | QPSK 135_69 | 633334/3500    | 100%       | 0.305          | 0.03             | 15.95                | 26.70              | 11.885        | 3.625                 | No                                  |
| Top side                                | 100 | QPSK 135_69 | 633334/3500    | 100%       | 0.199          | 0.09             | 15.95                | 26.70              | 11.885        | 2.365                 | No                                  |

**N78 (Ant13):**  
**3700-3800:**

| Test position                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Product Specific 10-g SAR Exclusion |
|-----------------------------------------|-----|-------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|-------------------------------------|
| Hotspot Test data (Separate 10mm 1RB)   |     |             |                |            |                |                  |                      |                    |               |                       |                                     |
| Front side                              | 100 | QPSK 1_271  | 650000/3750    | 1:1        | 0.044          | 0.04             | 15.99                | 26.70              | 11.776        | 0.516                 | Yes                                 |
| Back side                               | 100 | QPSK 1_271  | 650000/3750    | 1:1        | 0.092          | 0.05             | 15.99                | 26.70              | 11.776        | 1.082                 | Yes                                 |
| Left side                               | 100 | QPSK 1_271  | 650000/3750    | 1:1        | 0.137          | 0.06             | 15.99                | 26.70              | 11.776        | 1.613                 | No                                  |
| Top side                                | 100 | QPSK 1_271  | 650000/3750    | 1:1        | 0.087          | 0.07             | 15.99                | 26.70              | 11.776        | 1.019                 | Yes                                 |
| Hotspot Test data (Separate 10mm 50%RB) |     |             |                |            |                |                  |                      |                    |               |                       |                                     |
| Front side                              | 100 | QPSK 135_69 | 650000/3750    | 1:1        | 0.051          | 0.07             | 15.88                | 26.70              | 12.078        | 0.612                 | Yes                                 |
| Back side                               | 100 | QPSK 135_69 | 650000/3750    | 1:1        | 0.133          | 0.17             | 15.88                | 26.70              | 12.078        | 1.606                 | No                                  |
| Left side                               | 100 | QPSK 135_69 | 650000/3750    | 1:1        | 0.175          | -0.02            | 15.88                | 26.70              | 12.078        | 2.114                 | No                                  |
| Top side                                | 100 | QPSK 135_69 | 650000/3750    | 1:1        | 0.118          | 0.05             | 15.88                | 26.70              | 12.078        | 1.425                 | No                                  |



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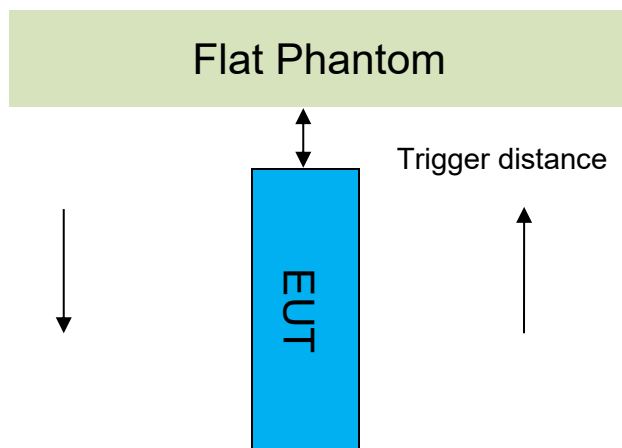
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## 5.4 Proximity Sensor Triggering Test

### Proximity sensor triggering distances:

The Proximity sensor triggering was applied to ENDC-LTE B2/7/38/41(Ant12), NR 7/38/41(Ant12), and NR 77/78(Ant13). Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.



| Proximity Sensor Triggering Distance(mm) |            |           |           |
|------------------------------------------|------------|-----------|-----------|
| Position                                 | Front side | Back side | Left side |
| Minimum                                  | 8          | 12        | 13        |
| Required SAR Test                        | 7          | 11        | 12        |

Note:

SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.

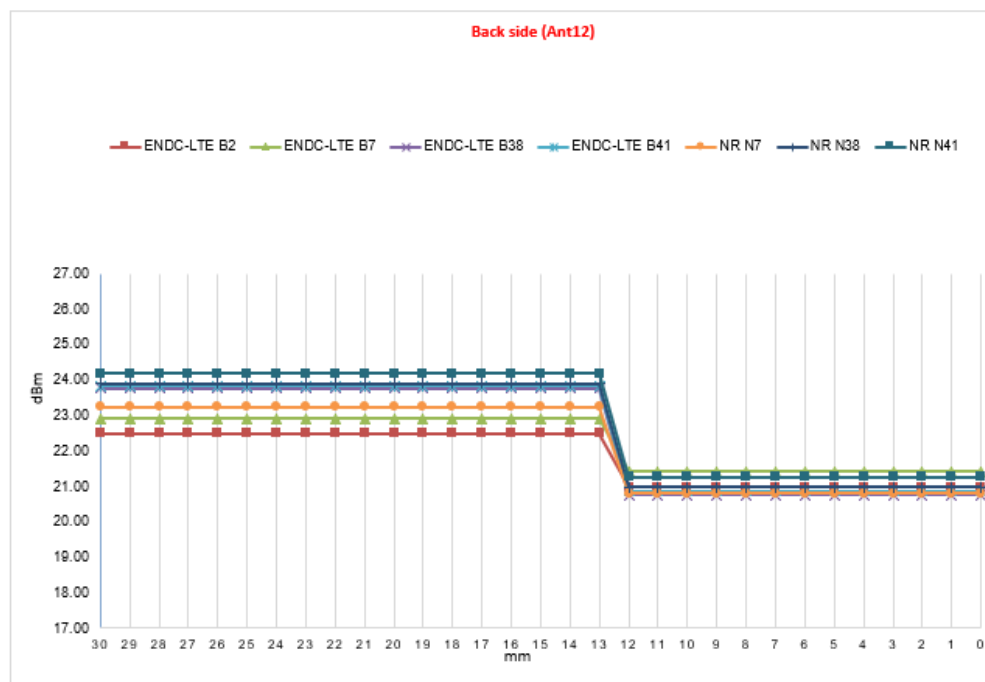
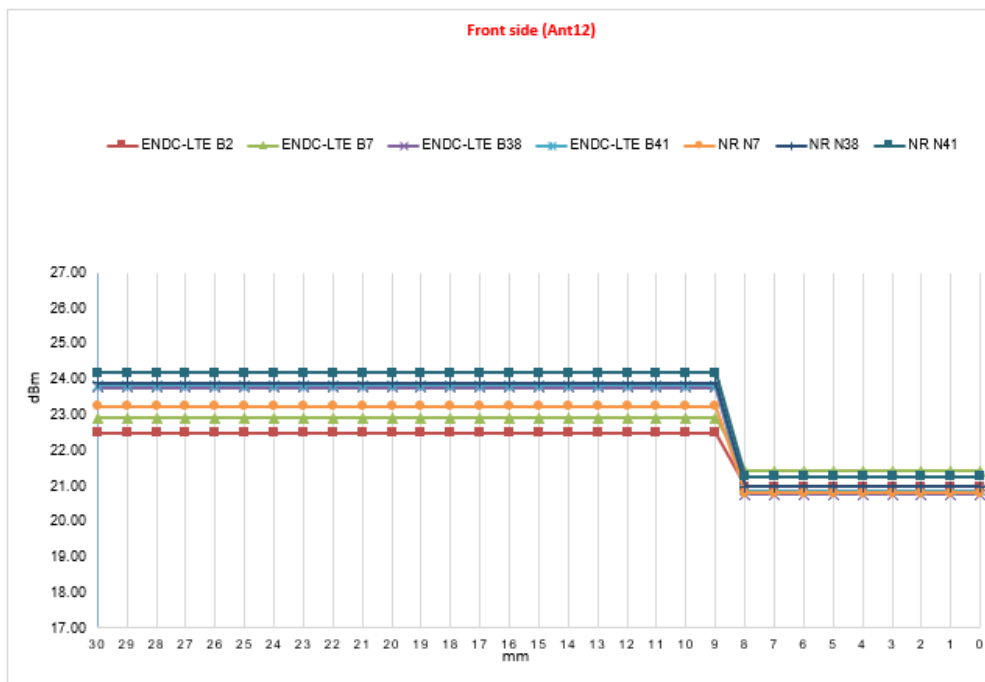


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### ● DUT Moving Toward(Trigger)the Phantom



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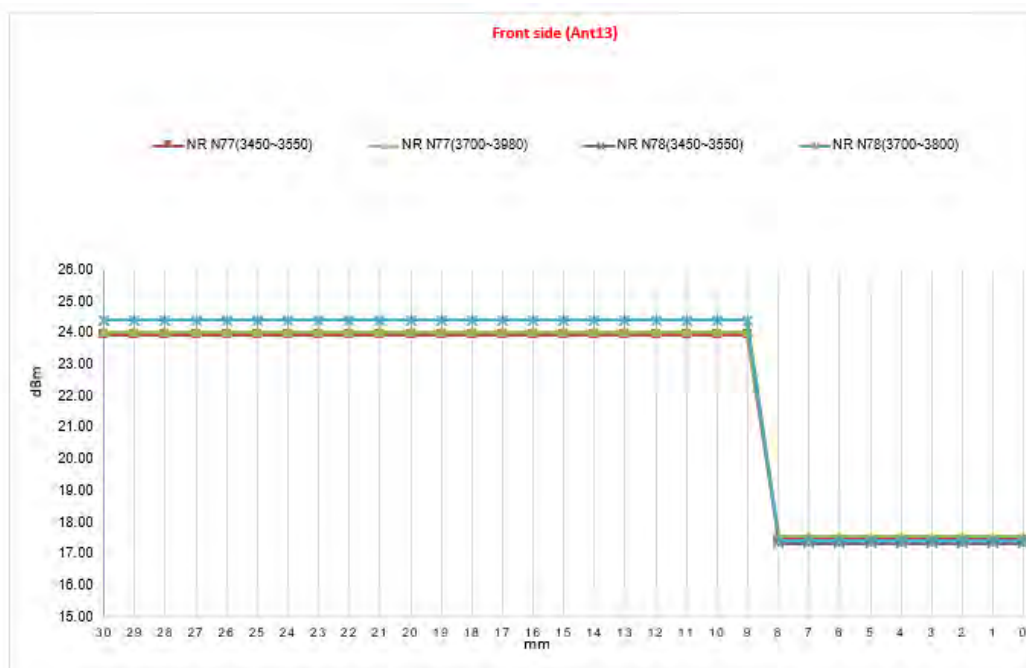
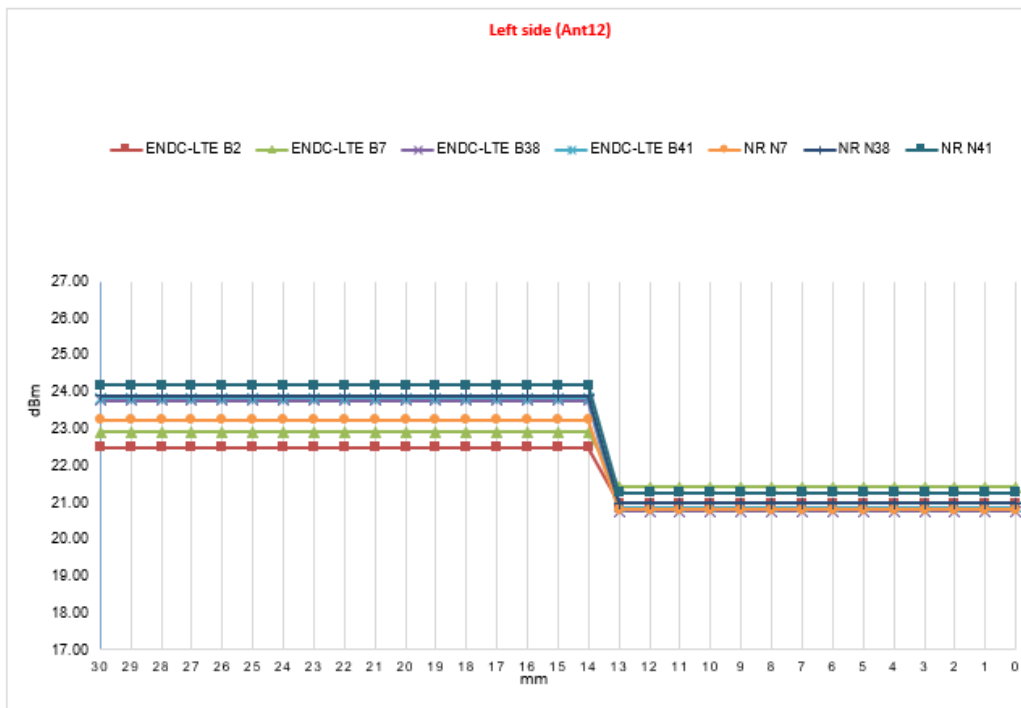
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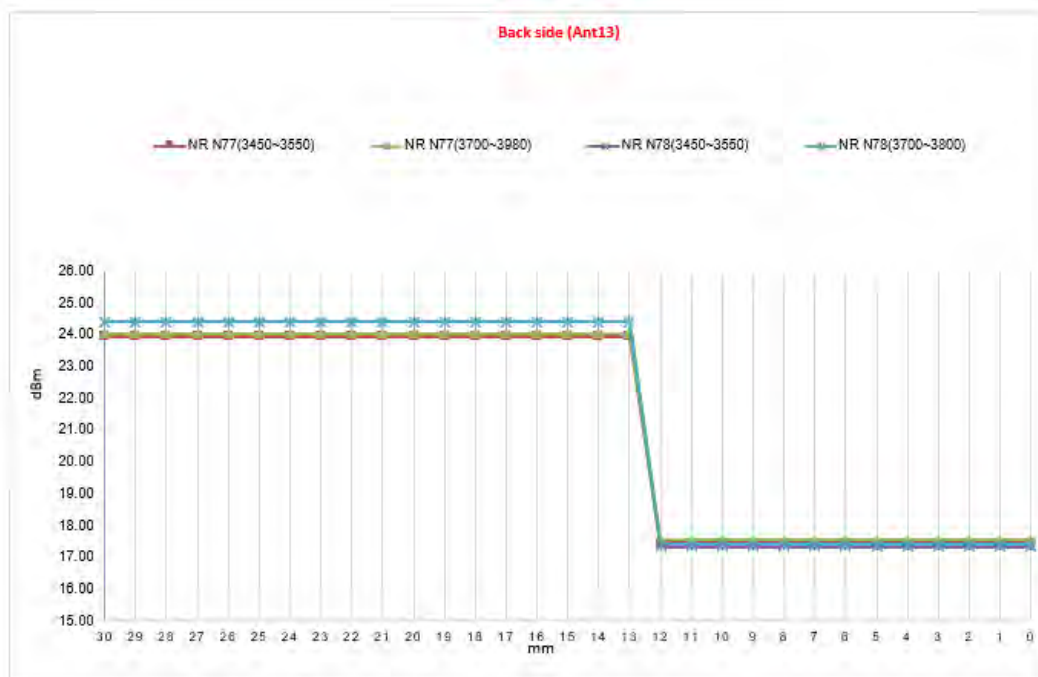
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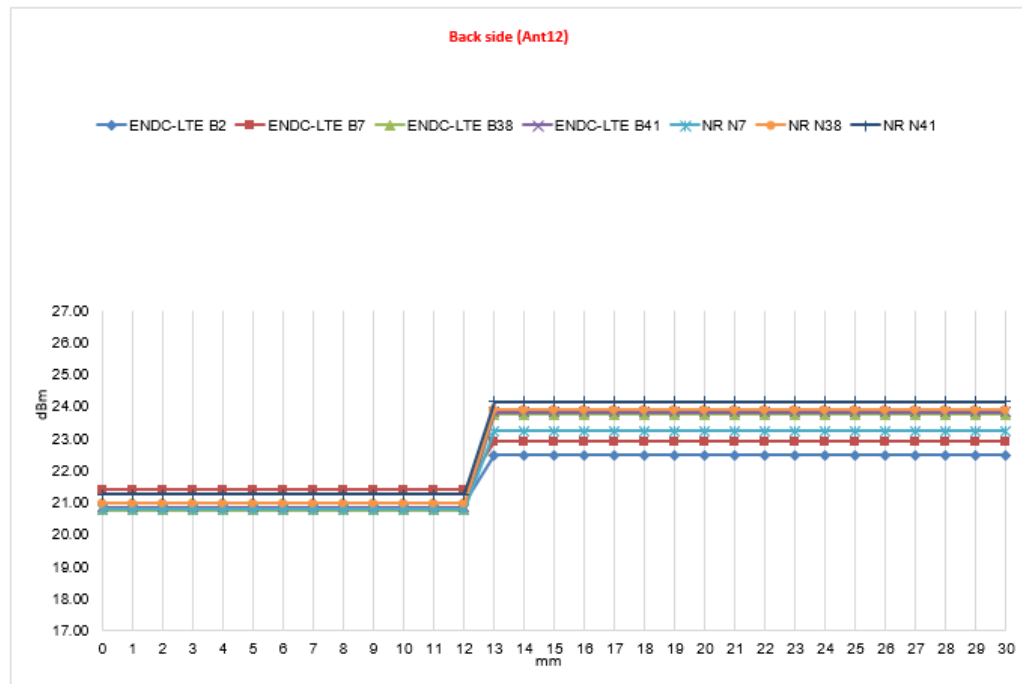
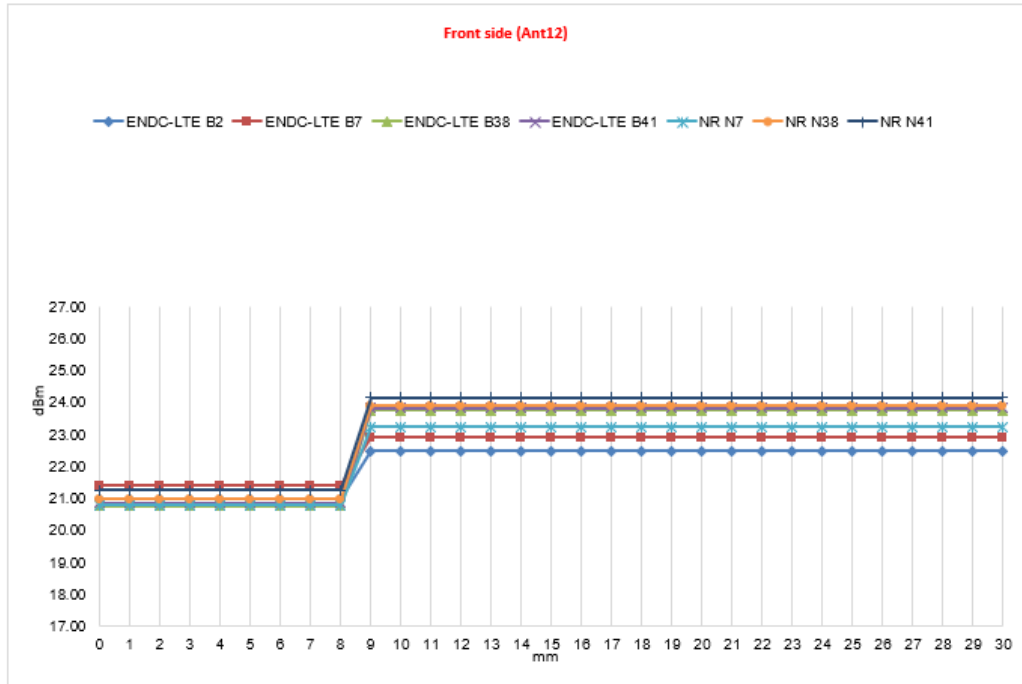


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● DUT Moving Away(Release) from the Phantom



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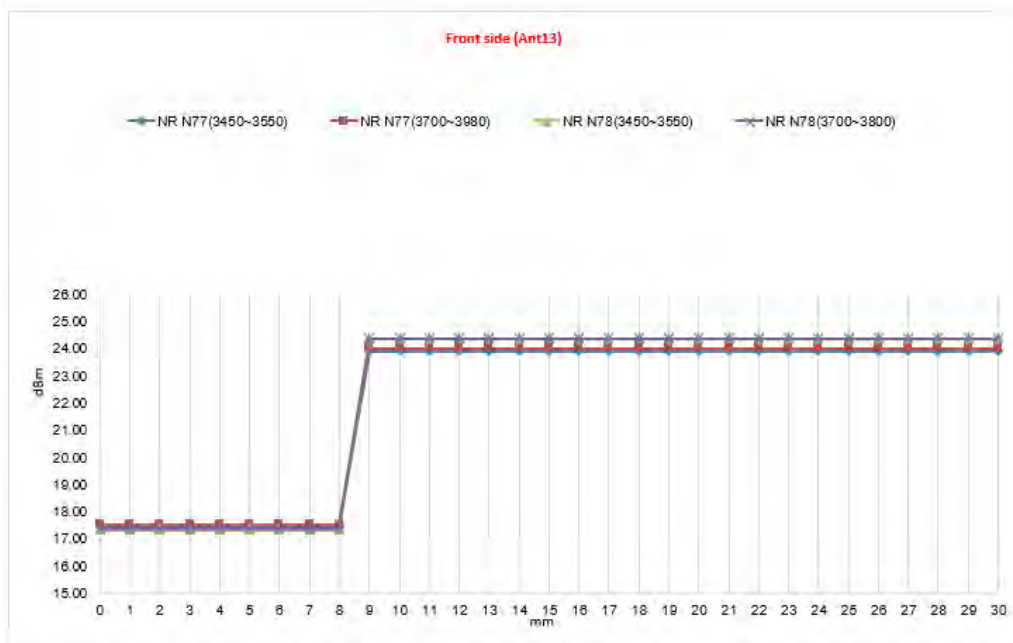
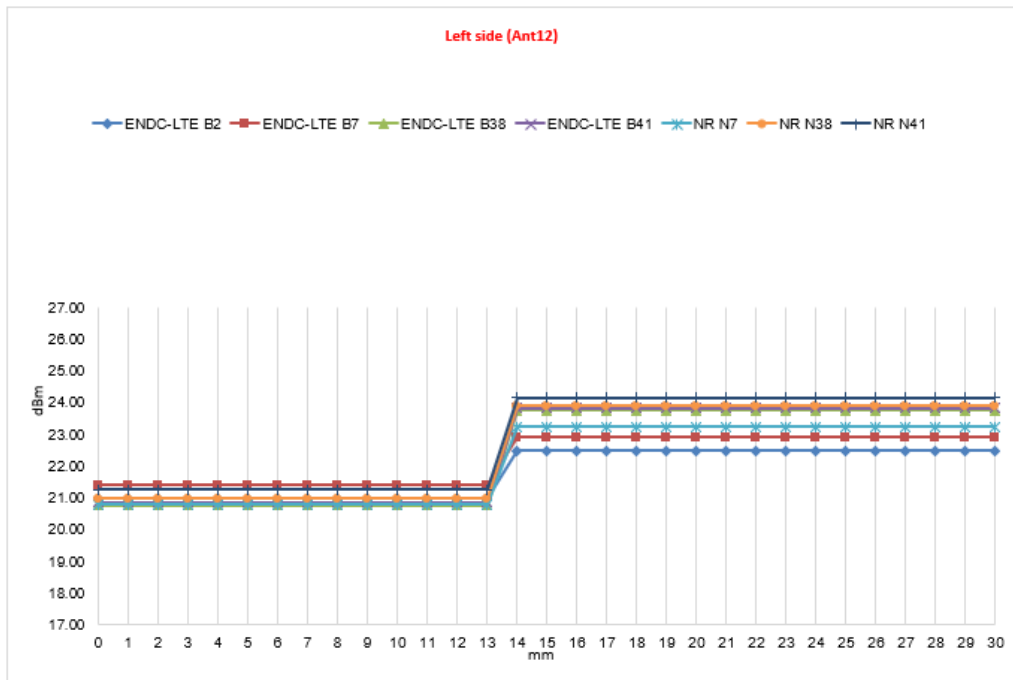
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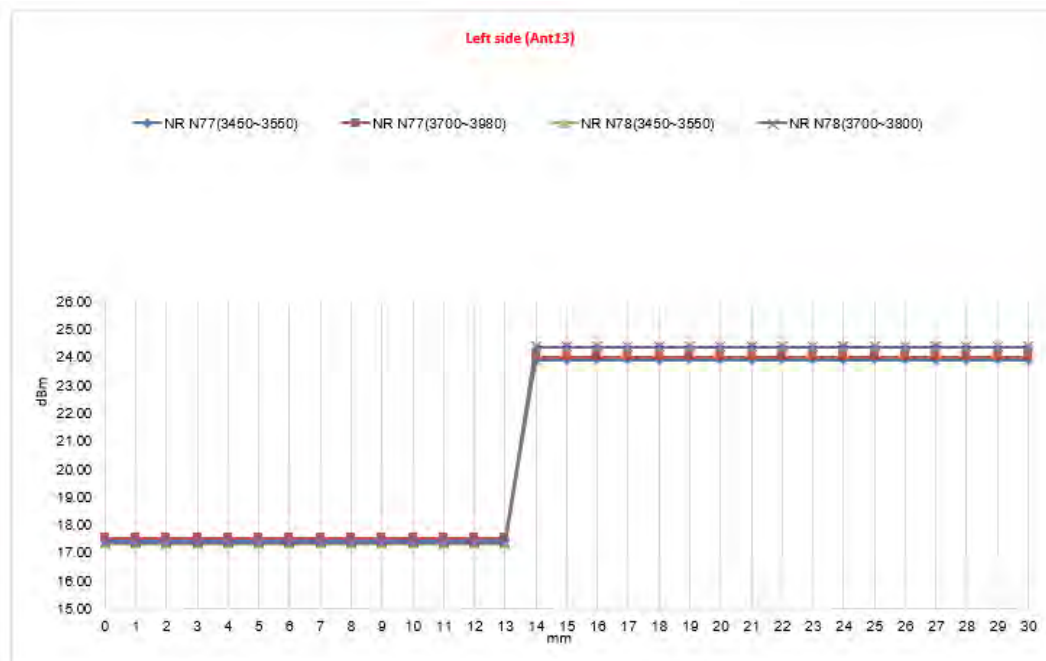
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### Proximity sensor coverage

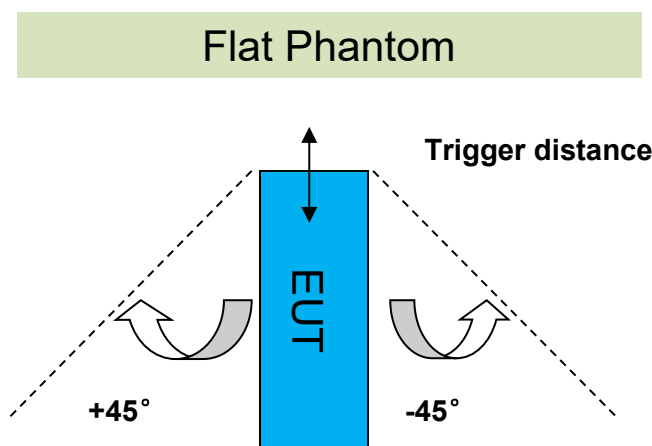
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user, but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and “along the direction of maximum antenna and sensor offset”.

The proximity sensor and main antenna use same metallic electrode, so there is no spatial offset.

### Device tilt angle influences on proximity sensor triggering

The influence of device tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom.

Rotating the tablet around the edge next to the phantom in  $\leq 10^\circ$  increments until the tablet is  $\pm 45^\circ$  from the vertical position at  $0^\circ$ , and the maximum output power remains in the reduced mode.



| Summary of Tablet Tilt Angle Influence on Proximity Sensor Triggering |                                            |                                                                                      |                        |      |      |      |     |    |    |     |     |     |     |
|-----------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------|------------------------|------|------|------|-----|----|----|-----|-----|-----|-----|
| Band (MHz)                                                            | Minimum trigger distance Per KDB616217§6.2 | Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$ | Power Reduction Status |      |      |      |     |    |    |     |     |     |     |
|                                                                       |                                            |                                                                                      | -45°                   | -35° | -25° | -15° | -5° | 0° | 5° | 15° | 25° | 35° | 45° |
| Ant 12:ENDC-LTE B2/7/38/41, NR 7/38/41                                | Left side:13mm                             | Left side:13mm                                                                       | on                     | on   | on   | on   | on  | on | on | on  | on  | on  | on  |
| Ant 13:NR 77/78                                                       | Left side:13mm                             | Left side:13mm                                                                       | on                     | on   | on   | on   | on  | on | on | on  | on  | on  | on  |

## 6 SAR System Verification Procedure

### 6.1 Tissue Simulate Liquid

#### 6.1.1 Recipes for Tissue Simulate Liquid

The following tables give the recipes for tissue simulating liquids to be used in different frequency bands:

| Ingredients<br>(% by weight)                                                                                                                                                                              | Frequency (MHz) |         |           |           |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|-----------|-----------|-----------|
|                                                                                                                                                                                                           | 450             | 700-900 | 1750-2000 | 2300-2500 | 2500-2700 |
| Water                                                                                                                                                                                                     | 38.56           | 40.30   | 55.24     | 55.00     | 54.92     |
| Salt (NaCl)                                                                                                                                                                                               | 3.95            | 1.38    | 0.31      | 0.2       | 0.23      |
| Sucrose                                                                                                                                                                                                   | 56.32           | 57.90   | 0         | 0         | 0         |
| HEC                                                                                                                                                                                                       | 0.98            | 0.24    | 0         | 0         | 0         |
| Bactericide                                                                                                                                                                                               | 0.19            | 0.18    | 0         | 0         | 0         |
| Tween                                                                                                                                                                                                     | 0               | 0       | 44.45     | 44.80     | 44.85     |
| Salt: 99+% Pure Sodium Chloride      Sucrose: 98+% Pure Sucrose<br>Water: De-ionized, 16 MΩ <sup>+</sup> resistivity      HEC: Hydroxyethyl Cellulose<br>Tween: Polyoxyethylene (20) sorbitan monolaurate |                 |         |           |           |           |
| HSL5GHz is composed of the following ingredients: (Manufactured by SPEAG)<br>Water: 50-65%<br>Mineral oil: 10-30%<br>Emulsifiers: 8-25%<br>Sodium salt: 0-1.5%                                            |                 |         |           |           |           |

Table 3: Recipe of Tissue Simulate Liquid



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### 6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity ( $\sigma$ ) and Permittivity ( $\epsilon_r$ ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was  $22 \pm 2^\circ\text{C}$ .

| Tissue Type | Measured Frequency (MHz) | Target Tissue ( $\pm 5\%$ ) |                      | Measured Tissue |                      | Deviation (Within $\pm 5\%$ ) |                      | Liquid Temp. ( $^\circ\text{C}$ ) | Test Date |
|-------------|--------------------------|-----------------------------|----------------------|-----------------|----------------------|-------------------------------|----------------------|-----------------------------------|-----------|
|             |                          | $\epsilon_r$                | $\sigma(\text{S/m})$ | $\epsilon_r$    | $\sigma(\text{S/m})$ | $\epsilon_r$                  | $\sigma(\text{S/m})$ |                                   |           |
| 750 Head    | 750                      | 41.90                       | 0.89                 | 40.965          | 0.889                | -2.23%                        | -0.15%               | 22.6                              | 2023/5/19 |
| 835 Head    | 835                      | 41.50                       | 0.90                 | 41.657          | 0.909                | 0.38%                         | 1.02%                | 22.4                              | 2023/5/20 |
| 835 Head    | 835                      | 41.50                       | 0.90                 | 40.680          | 0.910                | -1.98%                        | 1.10%                | 22.3                              | 2023/5/21 |
| 835 Head    | 835                      | 41.50                       | 0.90                 | 41.668          | 0.909                | 0.41%                         | 1.05%                | 22.6                              | 2023/5/22 |
| 835 Head    | 835                      | 41.50                       | 0.90                 | 42.676          | 0.910                | 2.83%                         | 1.08%                | 22.7                              | 2023/5/23 |
| 835 Head    | 835                      | 41.50                       | 0.90                 | 42.026          | 0.901                | 1.27%                         | 0.11%                | 22.5                              | 2023/6/1  |
| 1750 Head   | 1750                     | 40.10                       | 1.37                 | 40.647          | 1.370                | 1.36%                         | 0.00%                | 22.2                              | 2023/5/18 |
| 1750 Head   | 1750                     | 40.10                       | 1.37                 | 40.413          | 1.345                | 0.78%                         | -1.82%               | 22.1                              | 2023/5/23 |
| 1750 Head   | 1750                     | 40.10                       | 1.37                 | 40.521          | 1.345                | 1.05%                         | -1.82%               | 22.1                              | 2023/5/25 |
| 1900 Head   | 1900                     | 40.00                       | 1.40                 | 40.777          | 1.380                | 1.94%                         | -1.43%               | 22.3                              | 2023/5/19 |
| 1900 Head   | 1900                     | 40.00                       | 1.40                 | 40.022          | 1.445                | 0.05%                         | 3.21%                | 21.9                              | 2023/5/21 |
| 2450 Head   | 2450                     | 39.20                       | 1.80                 | 39.325          | 1.764                | 0.32%                         | -2.00%               | 22.4                              | 2023/5/27 |
| 2600 Head   | 2600                     | 39.00                       | 1.96                 | 39.723          | 1.966                | 1.85%                         | 0.31%                | 22.1                              | 2023/5/20 |
| 2600 Head   | 2600                     | 39.00                       | 1.96                 | 38.460          | 1.908                | -1.38%                        | -2.65%               | 22.1                              | 2023/5/22 |
| 2600 Head   | 2600                     | 39.00                       | 1.96                 | 39.832          | 1.941                | 2.13%                         | -0.97%               | 22.5                              | 2023/5/31 |
| 2600 Head   | 2600                     | 39.00                       | 1.96                 | 39.814          | 1.925                | 2.09%                         | -1.79%               | 22.3                              | 2023/6/1  |
| 2600 Head   | 2600                     | 39.00                       | 1.96                 | 38.262          | 1.877                | -1.89%                        | -4.23%               | 22.2                              | 2023/6/2  |
| 3500 Head   | 3500                     | 37.90                       | 2.91                 | 38.185          | 3.013                | 0.75%                         | 3.54%                | 22.2                              | 2023/5/18 |
| 3500 Head   | 3500                     | 37.90                       | 2.91                 | 37.676          | 2.853                | -0.59%                        | -1.96%               | 21.8                              | 2023/5/26 |
| 3500 Head   | 3500                     | 37.90                       | 2.91                 | 37.903          | 2.876                | 0.01%                         | -1.17%               | 22.1                              | 2023/5/29 |
| 3500 Head   | 3500                     | 37.90                       | 2.91                 | 38.396          | 2.952                | 1.31%                         | 1.44%                | 22.2                              | 2023/6/2  |
| 3700 Head   | 3700                     | 37.70                       | 3.12                 | 37.338          | 3.091                | -0.96%                        | -0.93%               | 22.1                              | 2023/5/19 |
| 3700 Head   | 3700                     | 37.70                       | 3.12                 | 36.960          | 3.043                | -1.96%                        | -2.47%               | 22.0                              | 2023/5/27 |
| 3700 Head   | 3700                     | 37.70                       | 3.12                 | 37.187          | 3.068                | -1.36%                        | -1.67%               | 21.8                              | 2023/5/30 |
| 3700 Head   | 3700                     | 37.70                       | 3.12                 | 37.996          | 3.222                | 0.79%                         | 3.27%                | 22.0                              | 2023/6/3  |
| 3900 Head   | 3900                     | 37.50                       | 3.32                 | 36.627          | 3.306                | -2.33%                        | -0.42%               | 22.3                              | 2023/5/20 |
| 3900 Head   | 3900                     | 37.50                       | 3.32                 | 36.365          | 3.259                | -3.03%                        | -1.84%               | 21.9                              | 2023/5/28 |
| 5250 Head   | 5250                     | 35.90                       | 4.66                 | 36.795          | 4.705                | 2.49%                         | 0.97%                | 22.1                              | 2023/5/27 |
| 5600 Head   | 5600                     | 35.50                       | 5.07                 | 35.843          | 5.091                | 0.97%                         | 0.41%                | 22.4                              | 2023/5/28 |
| 5750 Head   | 5750                     | 35.40                       | 5.22                 | 35.479          | 5.262                | 0.22%                         | 0.80%                | 22.3                              | 2023/5/29 |

Table 4: Measurement result of Tissue electric parameters



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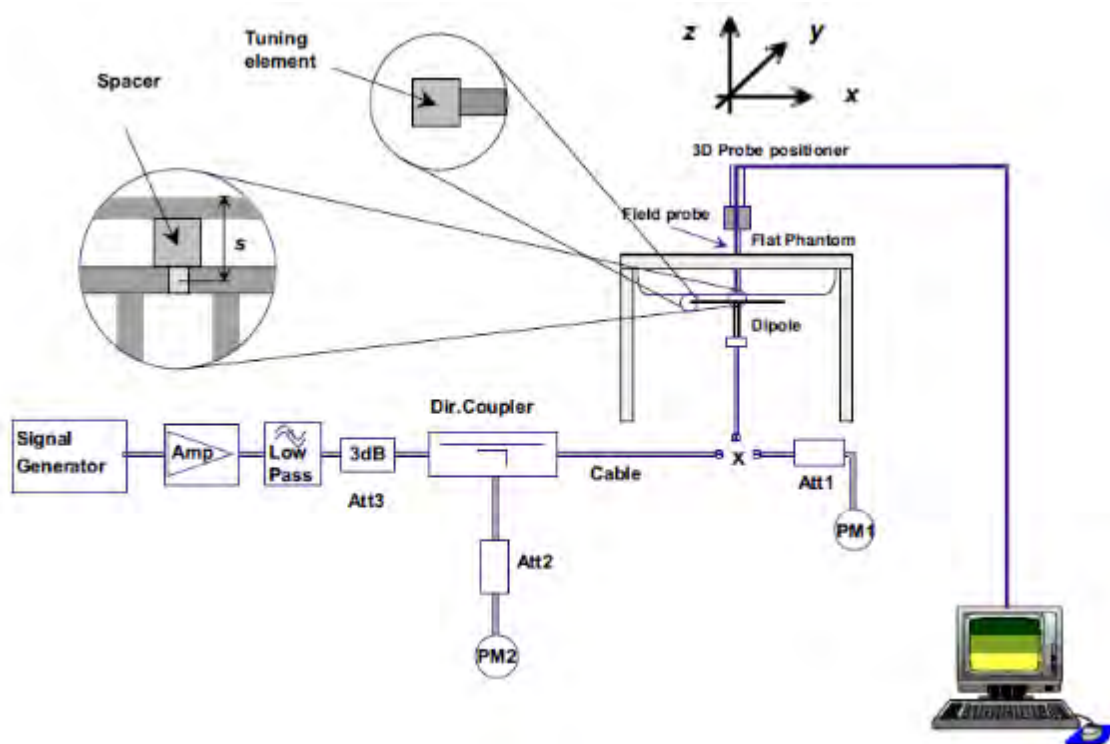
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## 6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within  $\pm 10\%$  from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range  $22\pm 2^{\circ}\text{C}$ , the relative humidity was in the range 60% and the liquid depth above the ear reference points was above  $15\pm 0.5\text{ cm}$  in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12. the microwave circuit arrangement used for SAR system check

### 6.2.1 Justification for Extended SAR Dipole Calibrations

1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within  $5\Omega$  from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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## 6.2.2 Summary System Check Result(s)

| Validation Kit |               | Measured SAR<br>250mW | Measured SAR<br>250mW | Measured SAR<br>(normalized<br>to 1W) | Measured SAR<br>(normalized<br>to 1W) | Target SAR<br>(normalized<br>to 1W) | Target SAR<br>(normalized<br>to 1W) | Deviation<br>(Within ±10%) |                | Liquid<br>Temp.<br>(°C) | Test Date |
|----------------|---------------|-----------------------|-----------------------|---------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|----------------------------|----------------|-------------------------|-----------|
|                |               | 1g (W/kg)             | 10g<br>(W/kg)         | 1g (W/kg)                             | 10g (W/kg)                            | 1-g(W/kg)                           | 10-g(W/kg)                          | 1-<br>g(W/kg)              | 10-<br>g(W/kg) |                         |           |
| D750V3         | Head          | 2.20                  | 1.46                  | 8.80                                  | 5.84                                  | 8.37                                | 5.53                                | 5.14%                      | 5.61%          | 22.6                    | 2023/5/19 |
| D835V2         | Head          | 2.35                  | 1.53                  | 9.40                                  | 6.12                                  | 9.53                                | 6.29                                | -1.36%                     | -2.70%         | 22.4                    | 2023/5/20 |
| D835V2         | Head          | 2.48                  | 1.63                  | 9.92                                  | 6.52                                  | 9.53                                | 6.29                                | 4.09%                      | 3.66%          | 22.3                    | 2023/5/21 |
| D835V2         | Head          | 2.38                  | 1.55                  | 9.52                                  | 6.20                                  | 9.53                                | 6.29                                | -0.10%                     | -1.43%         | 22.6                    | 2023/5/22 |
| D835V2         | Head          | 2.36                  | 1.55                  | 9.44                                  | 6.20                                  | 9.53                                | 6.29                                | -0.94%                     | -1.43%         | 22.7                    | 2023/5/23 |
| D835V2         | Head          | 2.42                  | 1.58                  | 9.68                                  | 6.32                                  | 9.53                                | 6.29                                | 1.57%                      | 0.48%          | 22.5                    | 2023/6/1  |
| D1750V2        | Head          | 9.14                  | 4.87                  | 36.56                                 | 19.48                                 | 36.60                               | 19.30                               | -0.11%                     | 0.93%          | 22.2                    | 2023/5/18 |
| D1750V2        | Head          | 9.22                  | 4.91                  | 36.88                                 | 19.64                                 | 36.60                               | 19.30                               | 0.77%                      | 1.76%          | 22.1                    | 2023/5/23 |
| D1750V2        | Head          | 9.03                  | 4.81                  | 36.12                                 | 19.24                                 | 36.60                               | 19.30                               | -1.31%                     | -0.31%         | 22.1                    | 2023/5/25 |
| D1900V2        | Head          | 9.11                  | 4.71                  | 36.44                                 | 18.84                                 | 39.50                               | 20.60                               | -7.75%                     | -8.54%         | 22.3                    | 2023/5/19 |
| D1900V2        | Head          | 10.50                 | 5.41                  | 42.00                                 | 21.64                                 | 39.50                               | 20.60                               | 6.33%                      | 5.05%          | 21.9                    | 2023/5/21 |
| D2450V2        | Head          | 12.50                 | 6.11                  | 50.00                                 | 24.44                                 | 52.20                               | 24.30                               | -4.21%                     | 0.58%          | 22.4                    | 2023/5/27 |
| D2600V2        | Head          | 14.30                 | 6.28                  | 57.20                                 | 25.12                                 | 57.70                               | 25.80                               | -0.87%                     | -2.64%         | 22.1                    | 2023/5/20 |
| D2600V2        | Head          | 13.60                 | 6.37                  | 54.40                                 | 25.48                                 | 57.70                               | 25.80                               | -5.72%                     | -1.24%         | 22.1                    | 2023/5/22 |
| D2600V2        | Head          | 13.90                 | 6.24                  | 55.60                                 | 24.96                                 | 57.70                               | 25.80                               | -3.64%                     | -3.26%         | 22.5                    | 2023/5/31 |
| D2600V2        | Head          | 14.60                 | 6.43                  | 58.40                                 | 25.72                                 | 57.70                               | 25.80                               | 1.21%                      | -0.31%         | 22.3                    | 2023/6/1  |
| D2600V2        | Head          | 13.60                 | 6.00                  | 54.40                                 | 24.00                                 | 57.70                               | 25.80                               | -5.72%                     | -6.98%         | 22.2                    | 2023/6/2  |
| Validation Kit |               | Measured SAR<br>100mW | Measured SAR<br>100mW | Measured SAR<br>(normalized<br>to 1W) | Measured SAR<br>(normalized<br>to 1W) | Target SAR<br>(normalized<br>to 1W) | Target SAR<br>(normalized<br>to 1W) | Deviation<br>(Within ±10%) |                | Liquid<br>Temp.<br>(°C) | Test Date |
|                |               | 1g (W/kg)             | 10g<br>(W/kg)         | 1g (W/kg)                             | 10g (W/kg)                            | 1-g(W/kg)                           | 10-g(W/kg)                          | 1-<br>g(W/kg)              | 10-<br>g(W/kg) |                         |           |
| D3500V2        | Head(3.5GHz)  | 6.28                  | 2.44                  | 62.80                                 | 24.40                                 | 65.80                               | 25.70                               | -4.56%                     | -5.06%         | 22.2                    | 2023/5/18 |
|                | Head(3.5GHz)  | 6.88                  | 2.64                  | 68.80                                 | 26.40                                 | 65.80                               | 25.70                               | 4.56%                      | 2.72%          | 21.8                    | 2023/5/26 |
|                | Head(3.5GHz)  | 6.83                  | 2.66                  | 68.30                                 | 26.60                                 | 65.80                               | 25.70                               | 3.80%                      | 3.50%          | 22.1                    | 2023/5/29 |
|                | Head(3.5GHz)  | 6.85                  | 2.62                  | 68.50                                 | 26.20                                 | 65.80                               | 25.70                               | 4.10%                      | 1.95%          | 22.2                    | 2023/6/2  |
| D3700V2        | Head(3.7GHz)  | 6.13                  | 2.29                  | 61.30                                 | 22.90                                 | 66.10                               | 24.70                               | -7.26%                     | -7.29%         | 22.1                    | 2023/5/19 |
|                | Head(3.7GHz)  | 6.75                  | 2.52                  | 67.50                                 | 25.20                                 | 66.10                               | 24.70                               | 2.12%                      | 2.02%          | 22.0                    | 2023/5/27 |
|                | Head(3.7GHz)  | 6.80                  | 2.54                  | 68.00                                 | 25.40                                 | 66.10                               | 24.70                               | 2.87%                      | 2.83%          | 21.8                    | 2023/5/30 |
|                | Head(3.7GHz)  | 6.34                  | 2.31                  | 63.40                                 | 23.10                                 | 66.10                               | 24.70                               | -4.08%                     | -6.48%         | 22.0                    | 2023/6/3  |
| D3900V2        | Head(3.9GHz)  | 7.01                  | 2.51                  | 70.10                                 | 25.10                                 | 66.70                               | 23.80                               | 5.10%                      | 5.46%          | 22.3                    | 2023/5/20 |
|                | Head(3.9GHz)  | 7.13                  | 2.54                  | 71.30                                 | 25.40                                 | 66.70                               | 23.80                               | 6.90%                      | 6.72%          | 21.9                    | 2023/5/28 |
| D5GHzV2        | Head(5.25GHz) | 7.58                  | 2.29                  | 75.80                                 | 22.90                                 | 77.30                               | 22.10                               | -1.94%                     | 3.62%          | 22.1                    | 2023/5/27 |
|                | Head(5.6GHz)  | 7.81                  | 2.35                  | 78.10                                 | 23.50                                 | 81.30                               | 23.10                               | -3.94%                     | 1.73%          | 22.4                    | 2023/5/28 |
|                | Head(5.75GHz) | 7.51                  | 2.15                  | 75.10                                 | 21.50                                 | 77.10                               | 21.30                               | -2.59%                     | 0.94%          | 22.3                    | 2023/5/29 |

Table 5: SAR System Check Result

## 6.2.3 Detailed System Check Results

Please see the Appendix A



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## 7 Test Configuration

### 7.1 3G SAR Test Reduction Procedure

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq 1/4$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as "otherwise" in the applicable procedures; SAR measurement is required for the secondary mode.

### 7.2 Operation Configurations

#### 7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using Radio Communication Analyzer, the power lever is set to "5" and "0" in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 33 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 33 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8-PSK.

The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode



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## 7.2.2 CDMA Test Configuration

### 1) . 1x RTT Handsets

The following procedures apply to CDMA 2000 Release 0 and Release A single carrier (1x RTT) handsets operating with Mobile Protocol Revision 6 or 7 (MOB\_P\_REV 6 or 7). The default test configuration is to measure SAR in RC3 with an established radio link between the handset and a communication test set. SAR in RC1 is selectively confirmed according to the 3G SAR test reduction procedure with RC3 as the primary mode. The forward and reverse links are configured with the same RC for SAR measurement. Maximum output power is verified by applying the procedures defined in 3GPP2 C. S0011 and TIA-98-E. SAR must be measured according to these maximum output conditions and requirements in KDB Publication 447498 D01.

### 2) . Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures in section 4.4.5.2 of 3GPP2 C.S0011/TIA-98-E. Results for at least steps 3, 4 and 10 of the power measurement procedures are required in the SAR report. Steps 3 and 4 are measured using Loopback Service Option SO55 with power control bits in "All Up" condition. TDSO/SO32 may be used instead of SO55 for step 4. Step 10 is measured using TDSO/SO32 with power control bits in the "Bits Hold" condition (i.e. alternative Up/Down Bits). All power measurements defined in C.S0011/TIA-98-E that are inapplicable to the handset or cannot be measured due to technical or equipment limitations must be clearly identified in the test report.

### 3) . Head SAR

SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55. The 3G SAR test reduction procedure is applied to RC1 with RC3 as the primary mode; otherwise, SAR is required for the channel with maximum measured output in RC1 using the head exposure configuration that results in the highest reported SAR in RC3.

### 4) . Body-Worn Accessory SAR

Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 D01 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCHn), with FCH only as the primary mode. Otherwise, SAR is required for multiple code channel configuration (FCH + SCHn), with FCH at full rate and SCH0 enabled at 9600 bps, using the highest reported SAR configuration for FCH only. When multiple code channels are enabled, the transmitter output can shift by more than 0.5 dB and may lead to higher SAR drifts and SCH dropouts.

The 3G SAR test reduction procedure is applied to body-worn accessory SAR in RC1 with RC3 as the primary mode. Otherwise, SAR is required for RC1, with SO55 and full rate, using the highest reported SAR configuration for body-worn accessory exposure in RC3.

### 5) . Handsets with built-in Ev-Do

For handsets with Ev-Do capabilities, the 3G SAR test reduction procedure is applied to Ev-Do Rev. 0 with 1x RTT RC3 as the primary mode to determine body-worn accessory test requirements. Otherwise, body-worn accessory SAR is required for Rev. 0, at 153.6 kbps, using the highest reported SAR configuration for body-worn accessory exposure in RC3.

The 3G SAR test reduction procedure is applied separately to Rev. A and Rev. B, with Rev. 0 as the primary mode to determine body-worn accessory SAR test requirements. When SAR is not required for Rev. 0, the 3G SAR test reduction is applied with 1x RTT RC3 as the primary mode. Otherwise, SAR is required for Rev. A or



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Rev. B, with a Reverse Data Channel payload size of 4096 bits and a Termination Target of 16 slots defined for Subtype 2 and 3 Physical Layer configurations, using the highest reported SAR configuration for body-worn accessory exposure in Rev. 0 or RC3, as appropriate.

A Forward Traffic Channel data rate corresponding to the 2-slot version of 307.2 kbps with ACK Channel transmitting in all slots is configured in the downlink for Rev. 0, Rev. A and Rev. B



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### 7.2.3 WCDMA Test Configuration

#### 1) . Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1's" for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations that are not supported by the handset or cannot be measured due to technical or equipment limitations must be clearly identified.

#### 2) . Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure

#### 3) . Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

#### 4) . HSDPA / HSUPA / DC-HSDPA

According to KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is  $\leq \frac{1}{4}$  dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA

#### a) HSDPA

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors ( $\beta_c$ ,  $\beta_d$ ), and HS-DPCCH power offset parameters ( $\Delta_{ACK}$ ,  $\Delta_{NACK}$ ,  $\Delta_{CQI}$ ) are set according to values indicated in the following table. The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.



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| Sub-test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\beta c$ | Bd       | $\beta d(SF)$ | $\beta c/\beta d$ | $\beta hs$ | CM(dB) | MPR (dB) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|---------------|-------------------|------------|--------|----------|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2/15      | 15/15    | 64            | 2/15              | 4/15       | 0.0    | 0        |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 12/15(3)  | 15/15(3) | 64            | 12/15(3)          | 24/15      | 1.0    | 0        |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 15/15     | 8/15     | 64            | 15/8              | 30/15      | 1.5    | 0.5      |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 15/15     | 4/15     | 64            | 15/4              | 30/15      | 1.5    | 0.5      |
| <p>Note1: <math>\Delta ACK</math>, <math>\Delta NACK</math> and <math>\Delta CQI = 8</math> Ahs = <math>\beta hs/\beta c = 30/15</math> <math>\beta hs = 30/15 * \beta c</math></p> <p>Note2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, <math>\Delta ACK</math> and <math>\Delta NACK = 8</math> ( Ahs=30/15) with <math>\beta hs = 30/15 * \beta c</math>, and <math>\Delta CQI = 7</math> ( Ahs=24/15) with <math>\beta hs = 24/15 * \beta c</math>.</p> <p>Note3: CM=1 for <math>\beta c/\beta d = 12/15</math>, <math>\beta hs/\beta c = 24/15</math>. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.</p> |           |          |               |                   |            |        |          |

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

| Parameter                        | Value       |
|----------------------------------|-------------|
| Nominal average inf. bit rate    | 534 kbit/s  |
| Inter-TTI Distance               | 3 TTI"s     |
| Number of HARQ Processes         | 2 Processes |
| Information Bit Payload          | 3202 Bits   |
| MAC-d PDU size                   | 336 Bits    |
| Number Code Blocks               | 1 Block     |
| Binary Channel Bits Per TTI      | 4800 Bits   |
| Total Available SMLs in UE       | 19200 SMLs  |
| Number of SMLs per HARQ Process  | 9600 SMLs   |
| Coding Rate                      | 0.67        |
| Number of Physical Channel Codes | 5           |

Table 6: settings of required H-Set 1 QPSK acc. to 3GPP 34.121



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| HS-DSCH Category | Maximum HS-DSCH Codes Received | Minimum Inter-TTI Interval | MaximumH S-DSCH Transport BlockBits/HS-DSCH TTI | Total Soft Channel Bits |
|------------------|--------------------------------|----------------------------|-------------------------------------------------|-------------------------|
| 1                | 5                              | 3                          | 7298                                            | 19200                   |
| 2                | 5                              | 3                          | 7298                                            | 28800                   |
| 3                | 5                              | 2                          | 7298                                            | 28800                   |
| 4                | 5                              | 2                          | 7298                                            | 38400                   |
| 5                | 5                              | 1                          | 7298                                            | 57600                   |
| 6                | 5                              | 1                          | 7298                                            | 67200                   |
| 7                | 10                             | 1                          | 14411                                           | 115200                  |
| 8                | 10                             | 1                          | 14411                                           | 134400                  |
| 9                | 15                             | 1                          | 25251                                           | 172800                  |
| 10               | 15                             | 1                          | 27952                                           | 172800                  |
| 11               | 5                              | 2                          | 3630                                            | 14400                   |
| 12               | 5                              | 1                          | 3630                                            | 28800                   |
| 13               | 15                             | 1                          | 34800                                           | 259200                  |
| 14               | 15                             | 1                          | 42196                                           | 259200                  |
| 15               | 15                             | 1                          | 23370                                           | 345600                  |
| 16               | 15                             | 1                          | 27952                                           | 345600                  |

Table 7: HSDPA UE category

#### b) HSUPA

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSUPA should be configured according to the values indicated below as well as other applicable procedures described in the WCDMA Handset and Release 5 HSUPA Data Device sections of 3G device.



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| Sub-test <sup>o</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | $\beta_c$ <sup>o</sup> | $\beta_d$ <sup>o</sup> | $\beta_d$ (SF) <sup>o</sup> | $\beta_o/\beta_d$ <sup>o</sup> | $\beta_{hs}$ <sup>(1)</sup> <sup>o</sup> | $\beta_{ec}$ <sup>o</sup> | $\beta_{ed}$ <sup>o</sup>                  | $\beta_c$ (SF) <sup>o</sup> | $\beta_{ed}$ (code) <sup>o</sup> | CM <sup>(2)</sup> (dB) <sup>o</sup> | MP R <sup>o</sup> (dB) <sup>o</sup> | AG <sup>(4)</sup> Inde x <sup>o</sup> | E-TFC I <sup>o</sup> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|-----------------------------|--------------------------------|------------------------------------------|---------------------------|--------------------------------------------|-----------------------------|----------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|----------------------|
| 1 <sup>o</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11/15 <sup>(3)</sup>   | 15/15 <sup>(3)</sup>   | 64 <sup>o</sup>             | 11/15 <sup>(3)</sup>           | 22/15 <sup>o</sup>                       | 209/225 <sup>o</sup>      | 1039/225 <sup>o</sup>                      | 4 <sup>o</sup>              | 1 <sup>o</sup>                   | 1.0 <sup>o</sup>                    | 0.0 <sup>o</sup>                    | 20 <sup>o</sup>                       | 75 <sup>o</sup>      |
| 2 <sup>o</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6/15 <sup>o</sup>      | 15/15 <sup>o</sup>     | 64 <sup>o</sup>             | 6/15 <sup>o</sup>              | 12/15 <sup>o</sup>                       | 12/15 <sup>o</sup>        | 94/75 <sup>o</sup>                         | 4 <sup>o</sup>              | 1 <sup>o</sup>                   | 3.0 <sup>o</sup>                    | 2.0 <sup>o</sup>                    | 12 <sup>o</sup>                       | 67 <sup>o</sup>      |
| 3 <sup>o</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 15/15 <sup>o</sup>     | 9/15 <sup>o</sup>      | 64 <sup>o</sup>             | 15/9 <sup>o</sup>              | 30/15 <sup>o</sup>                       | 30/15 <sup>o</sup>        | $\beta_{ed1}:47/15$<br>$\beta_{ed2}:47/15$ | 4 <sup>o</sup>              | 2 <sup>o</sup>                   | 2.0 <sup>o</sup>                    | 1.0 <sup>o</sup>                    | 15 <sup>o</sup>                       | 92 <sup>o</sup>      |
| 4 <sup>o</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2/15 <sup>o</sup>      | 15/15 <sup>o</sup>     | 64 <sup>o</sup>             | 2/15 <sup>o</sup>              | 4/15 <sup>o</sup>                        | 2/15 <sup>o</sup>         | 56/75 <sup>o</sup>                         | 4 <sup>o</sup>              | 1 <sup>o</sup>                   | 3.0 <sup>o</sup>                    | 2.0 <sup>o</sup>                    | 17 <sup>o</sup>                       | 71 <sup>o</sup>      |
| 5 <sup>o</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 15/15 <sup>(4)</sup>   | 15/15 <sup>(4)</sup>   | 64 <sup>o</sup>             | 15/15 <sup>(4)</sup>           | 30/15 <sup>o</sup>                       | 24/15 <sup>o</sup>        | 134/15 <sup>o</sup>                        | 4 <sup>o</sup>              | 1 <sup>o</sup>                   | 1.0 <sup>o</sup>                    | 0.0 <sup>o</sup>                    | 21 <sup>o</sup>                       | 81 <sup>o</sup>      |
| Note 1: $\Delta ACK$ , $\Delta NACK$ and $\Delta CQI=8$ $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$<br>Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$ , $\beta_{hs}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.<br>Note 3 : For subtest 1 the $\beta_c/\beta_d$ ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$ .<br>Note 4 : For subtest 5 the $\beta_c/\beta_d$ ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$ .<br>Note 5 : Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.<br>Note 6: $\beta_{ed}$ can not be set directly; it is set by Absolute Grant Value. |                        |                        |                             |                                |                                          |                           |                                            |                             |                                  |                                     |                                     |                                       |                      |

Table 8: Subtests for UMTS Release 6 HSUPA

| UE E-DCH Category                                                                                                                                                                                          | Maximum E-DCH Codes Transmitted | Number of HARQ Processes | E-DCH TTI(ms) | Minimum Spreading Factor | Maximum E-DCH Transport Block Bits | Max Rate (Mbps) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------|---------------|--------------------------|------------------------------------|-----------------|
| 1                                                                                                                                                                                                          | 1                               | 4                        | 10            | 4                        | 7110                               | 0.7296          |
| 2                                                                                                                                                                                                          | 2                               | 8                        | 2             | 4                        | 2798                               | 1.4592          |
|                                                                                                                                                                                                            | 2                               | 4                        | 10            | 4                        | 14484                              |                 |
| 3                                                                                                                                                                                                          | 2                               | 4                        | 10            | 4                        | 14484                              | 1.4592          |
| 4                                                                                                                                                                                                          | 2                               | 8                        | 2             | 2                        | 5772                               | 2.9185          |
|                                                                                                                                                                                                            | 2                               | 4                        | 10            | 2                        | 20000                              | 2.00            |
| 5                                                                                                                                                                                                          | 2                               | 4                        | 10            | 2                        | 20000                              | 2.00            |
| 6 (No DPDCH)                                                                                                                                                                                               | 4                               | 8                        | 10            | 2SF2&2SF                 | 11484                              | 5.76            |
|                                                                                                                                                                                                            | 4                               | 4                        | 2             | 4                        | 20000                              | 2.00            |
| 7 (No DPDCH)                                                                                                                                                                                               | 4                               | 8                        | 2             | 2SF2&2SF                 | 22996                              | ?               |
|                                                                                                                                                                                                            | 4                               | 4                        | 10            | 4                        | 20000                              | ?               |
| NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM. (TS25.306-7.3.0). |                                 |                          |               |                          |                                    |                 |

Table 9: HSUPA UE category



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**c) DC-HSDPA**

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a Second serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0

**Table E.5.0: Levels for HSDPA connection setup**

| Parameter<br>During Connection setup | Unit | Value |
|--------------------------------------|------|-------|
| P-CPICH_Ec/Ior                       | dB   | -10   |
| P-CCPCH and SCH_Ec/Ior               | dB   | -12   |
| PICH_Ec/Ior                          | dB   | -15   |
| HS-PDSCH                             | dB   | off   |
| HS-SCCH_1                            | dB   | off   |
| DPCH_Ec/Ior                          | dB   | -5    |
| OCNS_Ec/Ior                          | dB   | -3.1  |

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

The measurements were performed with a Fixed Reference Channel (FRC) H-Set 12 with QPSK.

| Parameter                        | Value       |
|----------------------------------|-------------|
| Nominal average inf. bit rate    | 60 kbit/s   |
| Inter-TTI Distance               | 1 TTI's     |
| Number of HARQ Processes         | 6 Processes |
| Information Bit Payload          | 120 Bits    |
| Number Code Blocks               | 1 Block     |
| Binary Channel Bits Per TTI      | 960 Bits    |
| Total Available SMLs in UE       | 19200 SMLs  |
| Number of SMLs per HARQ Process  | 3200 SMLs   |
| Coding Rate                      | 0.15        |
| Number of Physical Channel Codes | 1           |

Table 10: settings of required H-Set 12 QPSK acc. to 3GPP 34.121

**Note:**

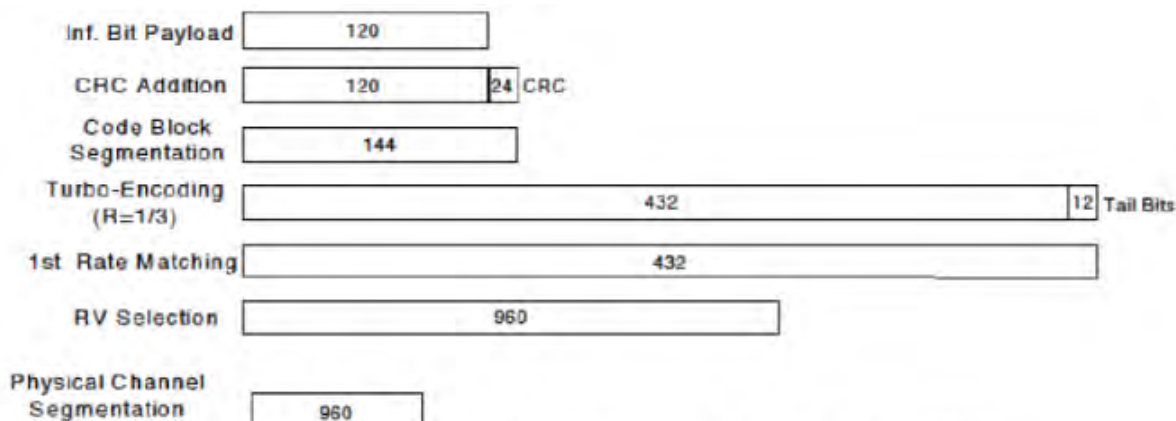
1. The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table above.
2. Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.



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**Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)**

The following 4 Sub-tests for HSDPA were completed according to Release 5 procedures. A summary of subtest settings are illustrated below:

| Sub-test <sup>o</sup> | $\beta_c$ <sup>o</sup> | $\beta_d$ <sup>o</sup> | $\beta_d(SF)$ <sup>o</sup> | $\beta_c/\beta_d$ <sup>o</sup> | $\beta_{hs}(1)$ <sup>o</sup> | CM(dB)(2) <sup>o</sup> | MPR <sup>o</sup> (dB) <sup>o</sup> |
|-----------------------|------------------------|------------------------|----------------------------|--------------------------------|------------------------------|------------------------|------------------------------------|
| 1 <sup>o</sup>        | 2/15 <sup>o</sup>      | 15/15 <sup>o</sup>     | 64 <sup>o</sup>            | 2/15 <sup>o</sup>              | 4/15 <sup>o</sup>            | 0.0 <sup>o</sup>       | 0 <sup>o</sup>                     |
| 2 <sup>o</sup>        | 12/15(3) <sup>o</sup>  | 15/15(3) <sup>o</sup>  | 64 <sup>o</sup>            | 12/15(3) <sup>o</sup>          | 24/15 <sup>o</sup>           | 1.0 <sup>o</sup>       | 0 <sup>o</sup>                     |
| 3 <sup>o</sup>        | 15/15 <sup>o</sup>     | 8/15 <sup>o</sup>      | 64 <sup>o</sup>            | 15/8 <sup>o</sup>              | 30/15 <sup>o</sup>           | 1.5 <sup>o</sup>       | 0.5 <sup>o</sup>                   |
| 4 <sup>o</sup>        | 15/15 <sup>o</sup>     | 4/15 <sup>o</sup>      | 64 <sup>o</sup>            | 15/4 <sup>o</sup>              | 30/15 <sup>o</sup>           | 1.5 <sup>o</sup>       | 0.5 <sup>o</sup>                   |

Note1:  $\Delta ACK$ ,  $\Delta NACK$  and  $\Delta CQI=8$   $A_{hs}=\beta_{hs}/\beta_c=30/15$   $\beta_{hs}=30/15 * \beta_c$   
Note2: CM=1 for  $\beta_c/\beta_d=12/15$ ,  $\beta_{hs}/\beta_c=24/15$ . For all other combinations of DPDCH, DPCCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.  
Note3: For subtest 2 the  $\beta_c/\beta_d$  ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c=11/15$  and  $\beta_d=15/15$

Up commands are set continuously to set the UE to Max power.

Note:

1. The Dual Carriers transmission only applies to HSDPA physical channels
2. The Dual Carriers belong to the same Node and are on adjacent carriers.
3. The Dual Carriers do not support MIMO to serve UEs configured for dual cell operation
4. The Dual Carriers operate in the same frequency band.
5. The device doesn't support the modulation of 16QAM in uplink but 64QAM in downlink for DC-HSDPA mode.
6. The device doesn't support carrier aggregation for it just can operate in Release 8.



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**d) HSPA+**

Per KDB941225D01, SAR is required for Rel. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction procedure is applied to (uplink) HSPA+ with 12.2 kbps RMC as the primary mode. Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.

Table C.11.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

| Sub-test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | $\beta_{c \downarrow}$<br>(Note 3) | $\beta_d \downarrow$ | $\beta_{HS \downarrow}$<br>(Note 1) | $\beta_{ec \downarrow}$ | $\beta_{ed \downarrow}$<br>(2xSF2)<br>(Note 4) | $\beta_{ed \downarrow}$<br>(2xSF4)<br>(Note 4) | CM<br>(dB)<br>(Note 2) | MPR<br>(dB)<br>(Note 2) | AG<br>Index<br>(Note 4) | E-TFCI<br>(Note 5) | E-TFCI<br>(boost) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------|-------------------------------------|-------------------------|------------------------------------------------|------------------------------------------------|------------------------|-------------------------|-------------------------|--------------------|-------------------|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                                  | 0                    | 30/15                               | 30/15                   | $\beta_{ed1}$ : 30/15<br>$\beta_{ed2}$ : 30/15 | $\beta_{ed3}$ : 24/15<br>$\beta_{ed4}$ : 24/15 | 3.5                    | 2.5                     | 14                      | 105                | 105               |
| <p>Note 1: <math>\Delta_{ACK}</math>, <math>\Delta_{NACK}</math> and <math>\Delta_{CQI} = 30/15</math> with <math>\beta_{\Delta} = 30/15 * \beta_c</math>.</p> <p>Note 2: CM = 3.5 and the MPR is based on the relative CM difference, <math>MPR = \text{MAX}(CM-1, 0)</math>.</p> <p>Note 3: DPDCH is not configured, therefore the <math>\beta_c</math> is set to 1 and <math>\beta_d = 0</math> by default.</p> <p>Note 4: <math>\beta_{ed}</math> can not be set directly; it is set by Absolute Grant Value.</p> <p>Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.</p> |                                    |                      |                                     |                         |                                                |                                                |                        |                         |                         |                    |                   |



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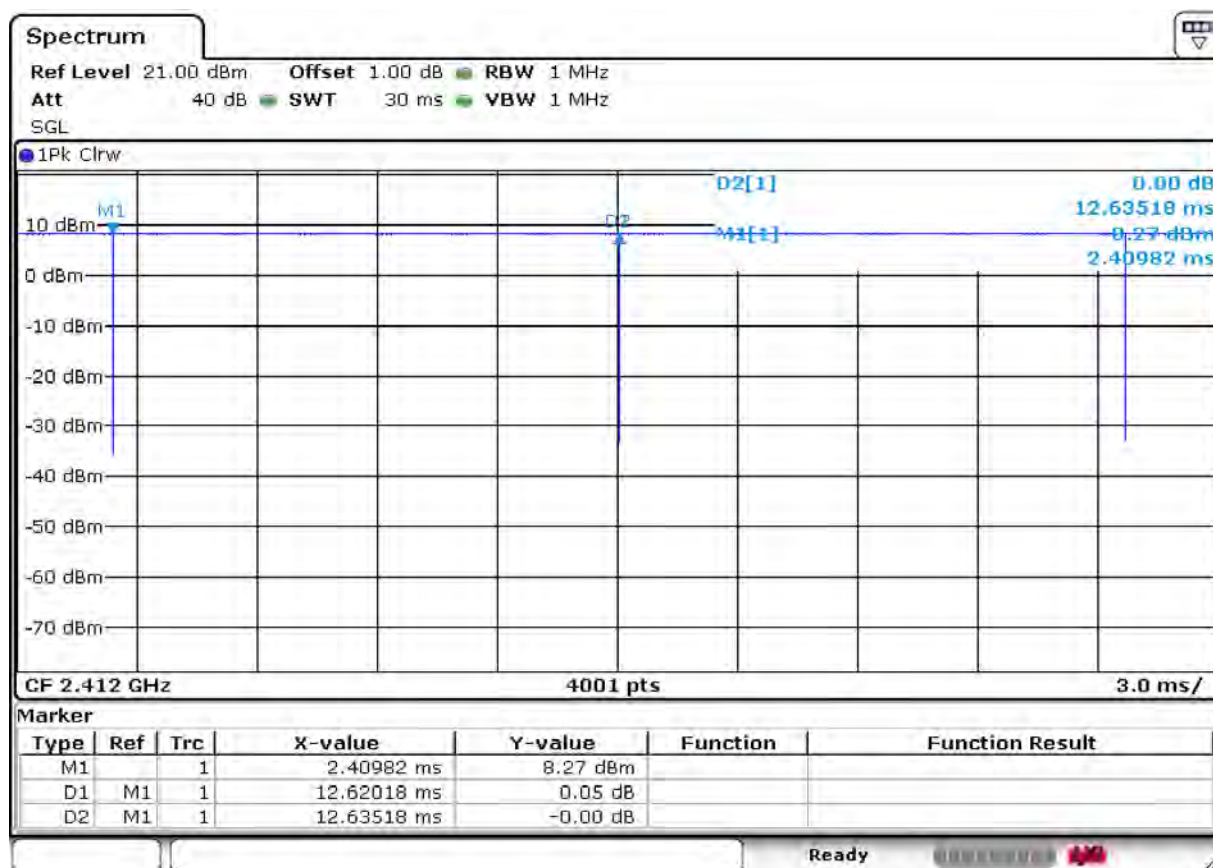
### 7.2.4 WiFi Test Configuration

We have verified that all these cellular band triggered Wi-Fi and Bluetooth power configurations for Cell\_ON and Cell\_OFF with respect to the different antennas (UAT, LAT, upper Wi-Fi and lower Wi-Fi etc.) in head and body exposure (also hotspot mode) conditions as well as UL CA have been verified to trigger and operate correctly with the intended maximum output power levels in simulated normal operating conditions (i.e., using a callbox). A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

#### 7.2.4.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b:

Duty cycle=12.62018/12.63518=99.88%

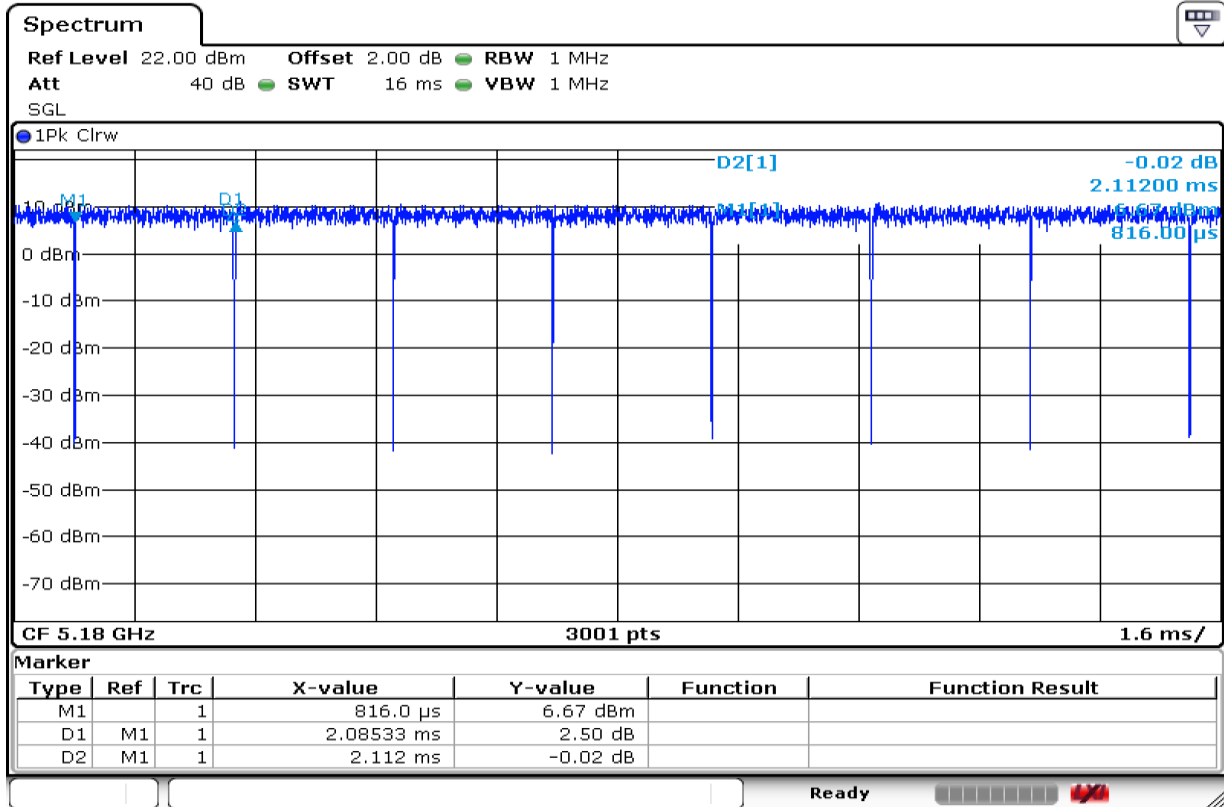


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2) Wi-Fi 5GHz 802.11a:  
Duty cycle=2.08533/2.112=98.74%

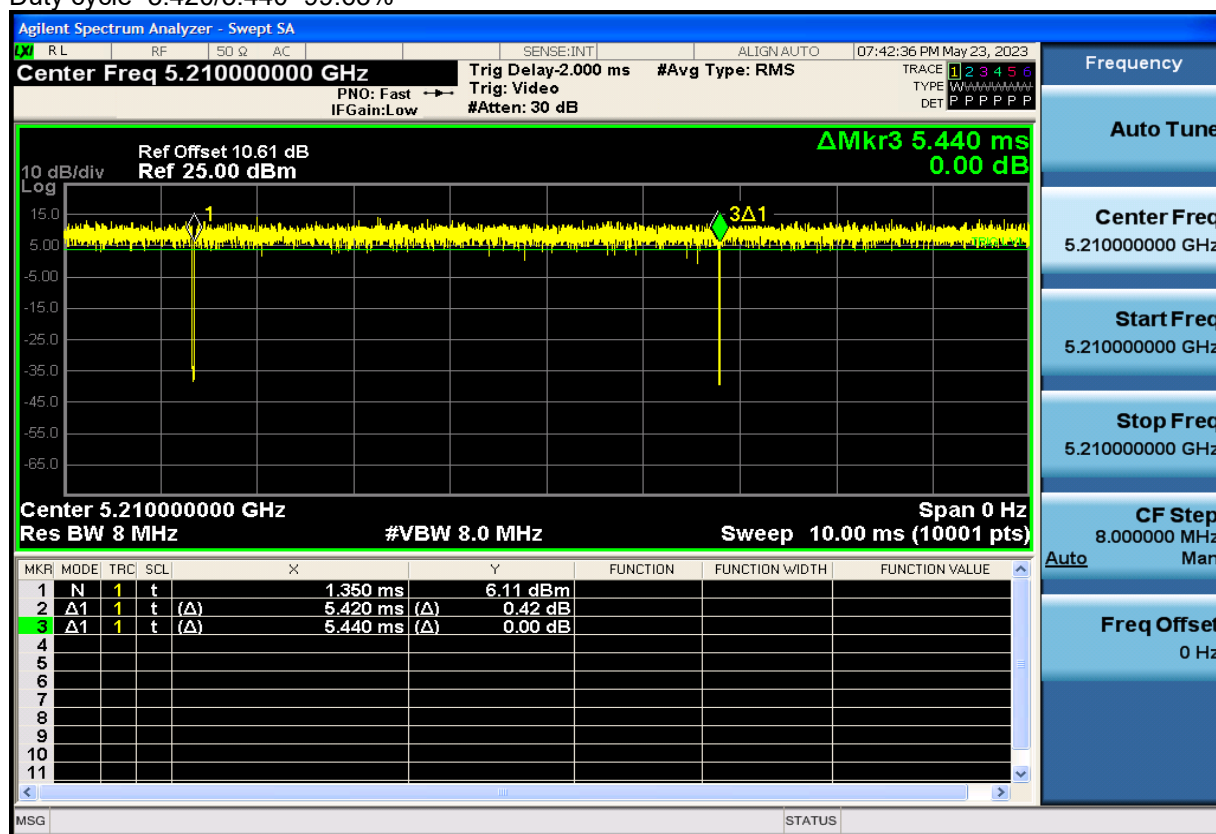


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3) Wi-Fi 5GHz 802.11ac VHT80:  
Duty cycle=5.420/5.440=99.63%

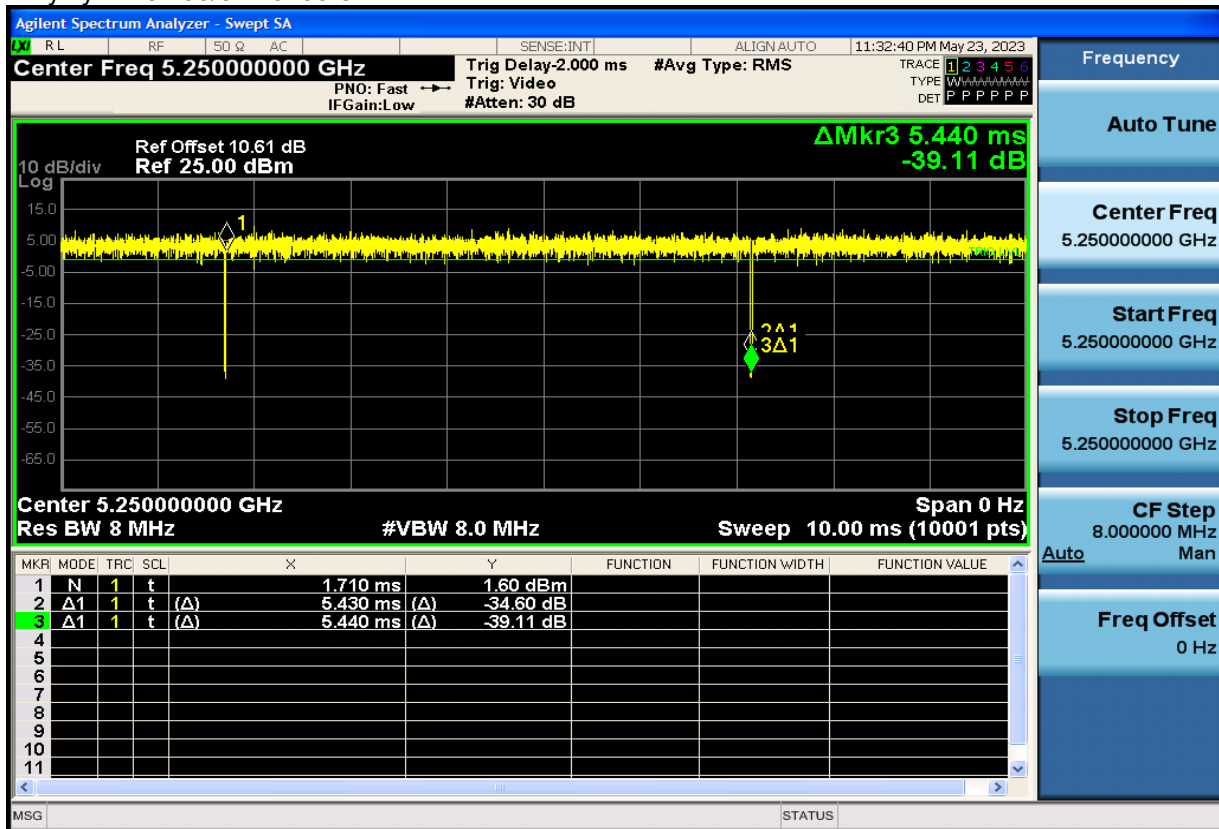


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- 4) Wi-Fi 5GHz 802.11ac VHT160:  
Duty cycle=5.430/5.440=99.82%



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#### 7.2.4.2 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

- 1) . When the reported SAR of the initial test position is  $\leq 0.4$  W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- 2) . When the reported SAR of the initial test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is  $\leq 0.8$  W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) . For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

#### 7.2.4.3 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration.

For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the *reported* SAR of the initial test configuration is  $> 0.8$  W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until *reported* SAR is  $\leq 1.2$  W/kg or all required channels are tested.

#### 7.2.4.4 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

- 1) . When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.



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- 2) . When the highest *reported* SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, SAR is not required for that subsequent test configuration.
- 3) . The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
  - a) SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
  - b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the *reported* SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is  $> 1.2$  W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
  - a) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
  - b) replace "initial test configuration" with "all tested higher output power configurations"



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#### 7.2.4.5 2.4 GHz WiFi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

- **802.11b DSSS SAR Test Requirements**

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) . When the reported SAR of the highest measured maximum output power channel for the exposure configuration is  $\leq 0.8$  W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) . When the reported SAR is  $> 0.8$  W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is  $> 1.2$  W/kg, SAR is required for the third channel; i.e., all channels require testing.

- **2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements**

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) . When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) . When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg.

- **SAR Test Requirements for OFDM configurations**

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.



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#### 7.2.4.6 5 GHz WiFi SAR Procedures

- **U-NII-1 and U-NII-2A Bands**

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.
- 2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is  $\leq 1.2$  W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.
- 3) The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is  $> 1.2$  W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

- **U-NII-2C and U-NII-3 Bands**

The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, all channels that operate at 5.60 – 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels. When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.



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- **OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements**

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- 1) The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- 2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- 4) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n.

After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.

- a) The channel closest to mid-band frequency is selected for SAR measurement.
- b) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

- **SAR Test Requirements for OFDM configurations**

When SAR measurement is required for 802.11 a/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.



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## 7.2.5 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Radio Communication Analyzer was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

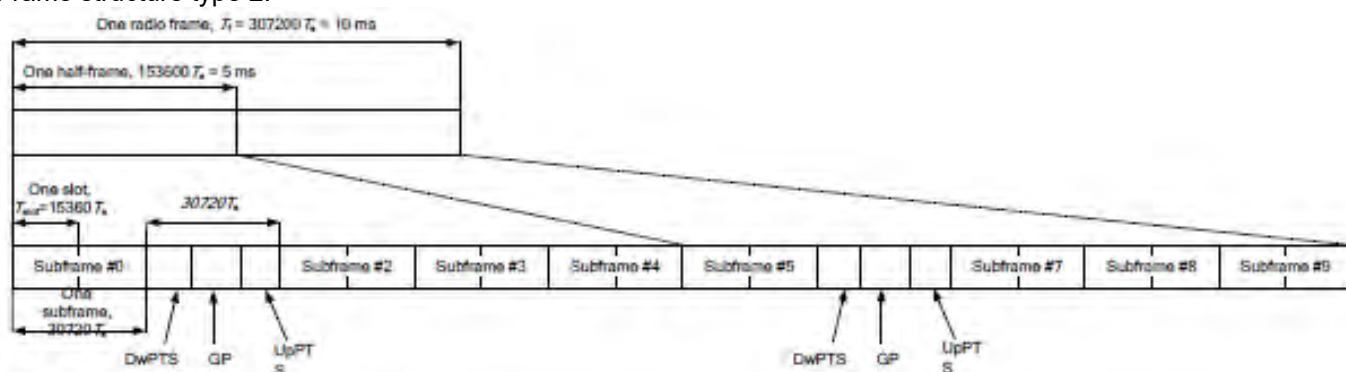
### TDD LTE test consideration

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band support 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Frame structure type 2:



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Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

| Special subframe configuration | Normal cyclic prefix in downlink |                                |                                  | Extended cyclic prefix in downlink |                                |                                  |
|--------------------------------|----------------------------------|--------------------------------|----------------------------------|------------------------------------|--------------------------------|----------------------------------|
|                                | DwPTS                            | UpPTS                          |                                  | DwPTS                              | UpPTS                          |                                  |
|                                |                                  | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |                                    | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| 0                              | 6592.Ts                          | 2192.Ts                        | 2560.Ts                          | 7680.Ts                            | 2192.Ts                        | 2560.Ts                          |
| 1                              | 19760.Ts                         |                                |                                  | 20480.Ts                           |                                |                                  |
| 2                              | 21952.Ts                         |                                |                                  | 23040.Ts                           |                                |                                  |
| 3                              | 24144.Ts                         |                                |                                  | 25600.Ts                           |                                |                                  |
| 4                              | 26336.Ts                         | 4384.Ts                        | 5120.Ts                          | 7680.Ts                            | 4384.Ts                        | 5120.Ts                          |
| 5                              | 6592.Ts                          |                                |                                  | 20480.Ts                           |                                |                                  |
| 6                              | 19760.Ts                         |                                |                                  | 23040.Ts                           |                                |                                  |
| 7                              | 21952.Ts                         |                                |                                  | 25600.Ts                           |                                |                                  |
| 8                              | 24144.Ts                         |                                |                                  | -                                  | -                              | -                                |
| 9                              | 13168.Ts                         |                                |                                  | -                                  | -                              | -                                |

Uplink-downlink configurations.

| Uplink-downlink configuration | Downlink-to-Uplink Switch-point periodicity | Subframe number |   |   |   |   |   |   |   |   |   |
|-------------------------------|---------------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
|                               |                                             | 0               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | U |
| 1                             | 5 ms                                        | D               | S | U | U | D | D | S | U | U | D |
| 2                             | 5 ms                                        | D               | S | U | D | D | D | S | U | D | D |
| 3                             | 10 ms                                       | D               | S | U | U | U | D | D | D | D | D |
| 4                             | 10 ms                                       | D               | S | U | U | D | D | D | D | D | D |
| 5                             | 10 ms                                       | D               | S | U | D | D | D | D | D | D | D |
| 6                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | D |

Calculated Duty Cycle=[Extended cyclic prefix in uplink x (Ts) x # of S + # of U]/10ms

| Uplink-Downlink Configuration | Downlink-to-Uplink Switch-point Periodicity | Subframe Number |   |   |   |   |   |   |   |   |   | Calculated Duty Cycle (%) |
|-------------------------------|---------------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---------------------------|
|                               |                                             | 0               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                           |
| 0                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | U | 63.33                     |
| 1                             | 5 ms                                        | D               | S | U | U | D | D | S | U | U | D | 43.33                     |
| 2                             | 5 ms                                        | D               | S | U | D | D | D | S | U | D | D | 23.33                     |
| 3                             | 10 ms                                       | D               | S | U | U | U | D | D | D | D | D | 31.67                     |
| 4                             | 10 ms                                       | D               | S | U | U | D | D | D | D | D | D | 21.67                     |
| 5                             | 10 ms                                       | D               | S | U | D | D | D | D | D | D | D | 11.67                     |
| 6                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | D | 53.33                     |



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#### A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

#### B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

| Modulation | Channel bandwidth/Transmission bandwidth |       |       |        |        |        | MPR (dB) |
|------------|------------------------------------------|-------|-------|--------|--------|--------|----------|
|            | 1.4 MHz                                  | 3 MHz | 5 MHz | 10 MHz | 15 MHz | 20 MHz |          |
| QPSK       | ≤ 5                                      | ≤ 4   | ≤ 8   | ≤ 12   | ≤ 16   | ≤ 18   | 0        |
| QPSK       | > 5                                      | > 4   | > 8   | > 12   | > 16   | > 18   | 1        |
| 16QAM      | ≤ 5                                      | ≤ 4   | ≤ 8   | ≤ 12   | ≤ 16   | ≤ 18   | 1        |
| 16QAM      | > 5                                      | > 4   | > 8   | > 12   | > 16   | > 18   | 2        |
| 64QAM      | ≤ 5                                      | ≤ 4   | ≤ 8   | ≤ 12   | ≤ 16   | ≤ 18   | 2        |
| 64QAM      | > 5                                      | > 4   | > 8   | > 12   | > 16   | > 18   | 3        |
| 256QAM     | ≥ 1                                      |       |       |        |        |        | 5        |

#### C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

#### D) Largest channel bandwidth standalone SAR test requirements

##### 1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

##### 2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

##### 3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

##### 4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

#### E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45



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W/kg. In this report we have checked and ensured power in higher bands is equal to or higher than the lower bands for each antenna head and body with matching channel bandwidth.

#### F) LTE CA additional specification

The device supports intra-band contiguous and inter-band discontinuous uplink and downlink LTE Carrier Aggregation (CA). When carrier aggregation applies, implementation and measurement details for the following are necessary.

- a) Intra-band carrier aggregation requirements for uplink.
- b) Intra-band and inter-band carrier aggregation requirements for downlink.

The possible downlink and uplink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The conducted power measurement results of downlink and uplink LTE CA are provided in Appendix E (Conducted RF Output Power). The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

| DL LTE CA<br>Ant 11/41 |
|------------------------|
| CA_5A-5A               |
| CA_2A-5A               |
| CA_4A-5A               |
| CA_5A-38A              |
| CA_5A-41A              |
| CA_5A-66A              |
| CA_7A-26A              |
| CA_26A-41A             |
| CA_2A-4A-5A            |
| CA_2A-5A-7A            |
| CA_2A-5A-66A           |
| CA_4A-4A-5A            |
| CA_5A-7A-66A           |
| CA_5A-66A-66A          |
| CA_5A-7C               |
| CA_5A-66C              |



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|                        |
|------------------------|
| CA_5A-7C-66A           |
| CA_5A-7A-66A-66A       |
| DL LTE CA<br>Ant 15/31 |
| CA_7C                  |
| CA_38C                 |
| CA_41C                 |
| CA_66C                 |
| CA_7B                  |
| CA_2A-2A               |
| CA_4A-4A               |
| CA_7A-7A               |
| CA_41A-41A             |
| CA_66A-66A             |
| CA_2A-4A               |
| CA_2A-5A               |
| CA_2A-7A               |
| CA_2A-66A              |
| CA_4A-5A               |
| CA_4A-7A               |



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|               |
|---------------|
| CA_5A-7A      |
| CA_5A-38A     |
| CA_5A-41A     |
| CA_5A-66A     |
| CA_7A-26A     |
| CA_7A-66A     |
| CA_26A-41A    |
| CA_2A-4A-5A   |
| CA_2A-4A-7A   |
| CA_2A-5A-7A   |
| CA_2A-5A-66A  |
| CA_2A-7A-7A   |
| CA_2A-7A-66A  |
| CA_4A-4A-5A   |
| CA_4A-4A-7A   |
| CA_5A-7A-66A  |
| CA_5A-66A-66A |
| CA_7A-66A-66A |



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|                        |
|------------------------|
| CA_2A-7C               |
| CA_4A-7C               |
| CA_5A-7C               |
| CA_5A-66C              |
| CA_41D                 |
| CA_7C-66A-66A          |
| UL LTE CA<br>Ant 15/31 |
| CA_7C                  |
| CA_41C                 |

SAR test procedure for intra-band contiguous UL LTE CA is as below:

1) Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05

- UL PCC configuration is determined by the required test channel
- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.

2) SAR for UL CA is required in each exposure condition and frequency band combination

3) For this device, as the maximum output for Intra-band uplink LTE CA is  $\leq$  standalone LTE mode (without CA),

- PCC is configured according to the highest standalone SAR configuration tested.
- SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC

4) When the reported SAR for UL CA configuration, described above, is  $> 1.2$  W/kg, UL CA SAR is also required for all required test channels (PCC based)

5) UL CA SAR is also required for standalone SAR configurations  $> 1.2$  W/kg when they are scaled to the UL CA power level.



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## c) Inter-band carrier aggregation requirements for uplink.

1. For Inter-band uplink CA mode, Qualcomm Smart Transmit algorithm in WWAN directly adds the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from another 4G(LTE). Smart Transmit algorithm controls the total RF exposure of Inter-band uplink CA to not exceed FCC limit.

The Inter band Uplink CA as below table:

| Band/Antenna |       | LTE Band 5 |       | LTE Band 7 |       |
|--------------|-------|------------|-------|------------|-------|
|              |       | ANT41      | ANT11 | ANT12      | ANT15 |
| LTE Band 2   | ANT15 |            |       | √          |       |
|              | ANT31 |            |       | √          |       |
| LTE Band 4   | ANT12 | √          | √     |            |       |
|              | ANT15 | √          | √     | √          |       |
|              | ANT31 |            |       | √          |       |
| LTE Band 5   | ANT11 |            |       | √          | √     |
|              | ANT41 |            |       | √          | √     |



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## 7.2.6 NR Band Test Configuration

1. NR Band n2/n5/n7/n26/n38/n41/n66/n77/n78 support SA mode and n5/n7/n38/n41/n66/n78 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

| Band/Antenna |       | LTE Band 2 |       | LTE Band 4 |       | LTE Band 5 |       | LTE Band 7 |       |       | LTE Band 26 |       | LTE Band 38 |       | LTE Band 41 |       | LTE Band 66 |  |
|--------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|--|
|              |       | ANT15      | ANT31 | ANT15      | ANT31 | ANT41      | ANT11 | ANT12      | ANT15 | ANT31 | ANT41       | ANT11 | ANT31       | ANT15 | ANT31       | ANT15 | ANT31       |  |
| n5           | ANT41 |            |       |            |       |            |       | √          | √     |       |             |       |             |       |             |       |             |  |
|              | ANT11 |            |       |            |       |            |       | √          | √     |       |             |       |             |       |             |       |             |  |
| n7           | ANT12 |            | √     |            |       |            |       |            |       |       |             |       |             |       |             |       | √           |  |
|              | ANT15 |            | √     |            |       |            |       |            |       |       |             |       |             |       |             |       | √           |  |
| n38          | ANT12 |            |       | √          | √     |            |       |            |       |       |             |       |             |       |             | √     | √           |  |
|              | ANT23 |            |       | √          | √     |            |       |            |       |       |             |       |             |       |             | √     | √           |  |
| n41          | ANT12 |            |       | √          | √     |            |       |            |       | √     | √           |       |             |       |             | √     | √           |  |
|              | ANT23 |            |       | √          | √     |            |       |            |       | √     | √           |       |             |       |             | √     | √           |  |
| n66          | ANT12 |            | √     |            |       | √          | √     |            | √     |       |             |       |             |       |             |       |             |  |
|              | ANT15 |            | √     |            |       | √          | √     |            | √     |       |             |       |             |       |             |       |             |  |
| n78          | ANT13 | √          | √     | √          | √     | √          | √     |            | √     | √     | √           | √     | √           | √     | √           | √     | √           |  |
|              | ANT23 | √          | √     | √          | √     | √          | √     |            | √     | √     | √           | √     | √           | √     | √           | √     | √           |  |

2. The general information supported by the NR band is as following table:

| Band       |            | n2             | n5   | n7   | n26  | n38  | n41  | n66  | n77<br>Ant13/23 | n77<br>Ant14/21 | n78<br>Ant13/23 | n78<br>Ant14/21 |
|------------|------------|----------------|------|------|------|------|------|------|-----------------|-----------------|-----------------|-----------------|
| Modulation | DFT-s-OFDM | PI/2 BPSK      | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | Yes             | Yes             | Yes             | Yes             |
|            |            | QPSK           | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | Yes             | Yes             | Yes             | Yes             |
|            |            | 16QAM          | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | Yes             | Yes             | Yes             | Yes             |
|            |            | 64QAM          | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | Yes             | Yes             | Yes             | Yes             |
|            |            | 256QAM         | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | Yes             | Yes             | Yes             | Yes             |
|            | CP-OFDM    | QPSK           | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | Yes             | Yes             | Yes             | Yes             |
|            |            | 16QAM          | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | Yes             | Yes             | Yes             | Yes             |
|            |            | 64QAM          | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | Yes             | Yes             | Yes             | Yes             |
|            |            | 256QAM         | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | Yes             | Yes             | Yes             | Yes             |
|            |            | Max Duty Cycle | 100% | 100% | 100% | 100% | 100% | 100% | 100%            | 8.5%            | 100%            | 8.5%            |



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| Band | SCS   | Bandwidth |       |       |       |       |       |       |       |       |       |       |       |        |
|------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
|      |       | 5Mhz      | 10Mhz | 15Mhz | 20Mhz | 25Mhz | 30Mhz | 40Mhz | 50Mhz | 60Mhz | 70Mhz | 80Mhz | 90Mhz | 100Mhz |
| n2   | 15KHZ | Yes       | Yes   | Yes   | Yes   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A    |
|      | 30KHZ | N/A       | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A    |
| n5   | 15KHZ | Yes       | Yes   | Yes   | Yes   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A    |
|      | 30KHZ | N/A       | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A    |
| n7   | 15KHZ | Yes       | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A    |
|      | 30KHZ | N/A       | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A    |
| n26  | 15KHZ | Yes       | Yes   | Yes   | Yes   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A    |
|      | 30KHZ | N/A       | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A    |
| n38  | 15KHZ | N/A       | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A    |
|      | 30KHZ | N/A       | N/A   | N/A   | Yes   | N/A   | Yes   | Yes   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A    |
| n41  | 15KHZ | N/A       | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A    |
|      | 30KHZ | N/A       | N/A   | N/A   | Yes   | N/A   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes    |
| n66  | 15KHZ | Yes       | Yes   | Yes   | Yes   | N/A   | Yes   | Yes   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A    |
|      | 30KHZ | N/A       | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A    |
| n77  | 15KHZ | N/A       | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A    |
|      | 30KHZ | N/A       | N/A   | N/A   | Yes   | N/A   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes    |
| n78  | 15KHZ | N/A       | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A   | N/A    |
|      | 30KHZ | N/A       | N/A   | N/A   | Yes   | N/A   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes    |

3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:

- For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
- For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
- SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
- QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
- Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device



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#### 4. MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS 38.101-1 Section 6.2.2 under Table 6.2.2 -1.

| Modulation |           | MPR (dB)            |                      |                      |
|------------|-----------|---------------------|----------------------|----------------------|
|            |           | Edge RB allocations | Outer RB allocations | Inner RB allocations |
| DFT-s-OFDM | PI/2 BPSK | $\leq 3.5^1$        | $\leq 1.2^1$         | $\leq 0.2^1$         |
|            |           | $\leq 0.5^2$        | $\leq 0.5^2$         | $0^2$                |
|            | QPSK      | $\leq 1$            |                      | 0                    |
|            | 16 QAM    | $\leq 2$            |                      | $\leq 1$             |
|            | 64 QAM    | $\leq 2.5$          |                      |                      |
| CP-OFDM    | 256 QAM   | $\leq 4.5$          |                      |                      |
|            | QPSK      | $\leq 3$            |                      | $\leq 1.5$           |
|            | 16 QAM    | $\leq 3$            |                      | $\leq 2$             |
|            | 64 QAM    | $\leq 3.5$          |                      |                      |
|            | 256 QAM   | $\leq 6.5$          |                      |                      |

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

5. For FDD NR Band operation does not have the fixed UL/DL frame structure, but during the transmitting/receiving it can be operated in the slot structure of 100% UL duty cycle, we are proposing the conservative way to evaluate SAR at 100% duty cycle. For the purpose of test NR Band standalone SAR, and also test SAR level at 100% TX duty cycle.

6. For 5G NR Sub6GHz SISO Mode, SAR Test plan as below:

1) For 5G NR NSA mode with the same UL EN\_DC combination but different DL EN\_DC combinations, eg: EN-DC configuration: UL DC\_7A\_n5 (UL two bands) with DL DC\_7C\_n5 (DL two bands)

a) The UL EN-DC configuration, including the Tx antenna configuration, RF path, the channel bandwidth and other operating parameters are the same.

b) The maximum output power, including tolerance, for the UL EN-DC configuration with DL two or more bands must be  $\leq$  the same UL EN-DC configuration with DL two bands only to qualify for the SAR test exclusion.

7. For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN directly adds the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit.

8. For n77/78 antenna 14/21 support SRS, the max duty cycle is 8.5%.



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**7.2.7 Duty Cycle technology is applied to NR TDD and LTE TDD frequency band**

Duty Cycle technology is applied to NR TDD and LTE TDD frequency band, and the conducted power under specific Duty Cycle is compensated according to the case of different Duty Cycle stages.

In this report for LTE TDD band config1 to 6 mode average power is not more than Config 0 mode average power of 0.25dB and above, and the 1-g reported SAR is  $\leq 1.2$  W/kg or 10-g reported SAR is  $\leq 3.0$  W/kg, only the SAR of Config 0 mode will be tested.

| LTE TDD duty cycle |        |             |                   |                          |                        |                         |                                      |          |
|--------------------|--------|-------------|-------------------|--------------------------|------------------------|-------------------------|--------------------------------------|----------|
| Band               | Ant.   | Power Level | Max UL duty cycle | Max UL duty cycle factor | P <sub>max</sub> (dBm) | P <sub>limt</sub> (dBm) | P <sub>max</sub> Frame-Averaged(dBm) | SAR test |
| LTE B38            | Ant 31 | DSI 2/3     | 11.67%            | -9.33                    | 24.00                  | 24.00                   | 14.67                                | No       |
|                    |        |             | 21.67%            | -6.64                    | 24.00                  | 24.00                   | 17.36                                | No       |
|                    |        |             | 23.33%            | -6.32                    | 24.00                  | 24.00                   | 17.68                                | No       |
|                    |        |             | 31.67%            | -4.99                    | 24.00                  | 24.00                   | 19.01                                | No       |
|                    |        |             | 43.33%            | -3.63                    | 24.00                  | 24.00                   | 20.37                                | No       |
|                    |        |             | 53.33%            | -2.73                    | 24.00                  | 24.00                   | 21.27                                | No       |
|                    |        |             | 63.33%            | -1.98                    | 24.00                  | 24.00                   | <b>22.02</b>                         | Yes      |
| LTE B38            | Ant 31 | DSI 4/7     | 11.67%            | -9.33                    | 24.00                  | 23.00                   | 14.67                                | No       |
|                    |        |             | 21.67%            | -6.64                    | 24.00                  | 23.00                   | 17.36                                | No       |
|                    |        |             | 23.33%            | -6.32                    | 24.00                  | 23.00                   | 17.68                                | No       |
|                    |        |             | 31.67%            | -4.99                    | 24.00                  | 23.00                   | 19.01                                | No       |
|                    |        |             | 43.33%            | -3.63                    | 24.00                  | 23.00                   | 20.37                                | No       |
|                    |        |             | 53.33%            | -2.73                    | 24.00                  | 23.00                   | 21.27                                | No       |
|                    |        |             | 63.33%            | -1.98                    | 24.00                  | 23.00                   | <b>22.02</b>                         | Yes      |
| LTE B38            | Ant 31 | DSI 5/6     | 11.67%            | -9.33                    | 24.00                  | 21.50                   | 14.67                                | No       |
|                    |        |             | 21.67%            | -6.64                    | 24.00                  | 21.50                   | 17.36                                | No       |
|                    |        |             | 23.33%            | -6.32                    | 24.00                  | 21.50                   | 17.68                                | No       |
|                    |        |             | 31.67%            | -4.99                    | 24.00                  | 21.50                   | 19.01                                | No       |
|                    |        |             | 43.33%            | -3.63                    | 24.00                  | 21.50                   | 20.37                                | No       |
|                    |        |             | 53.33%            | -2.73                    | 24.00                  | 21.50                   | 21.27                                | No       |
|                    |        |             | 63.33%            | -1.98                    | 23.48                  | 21.50                   | <b>21.50</b>                         | Yes      |
| LTE B41            | Ant 31 | DSI 2/3     | 11.67%            | -9.33                    | 24.00                  | 24.00                   | 14.67                                | No       |
|                    |        |             | 21.67%            | -6.64                    | 24.00                  | 24.00                   | 17.36                                | No       |
|                    |        |             | 23.33%            | -6.32                    | 24.00                  | 24.00                   | 17.68                                | No       |
|                    |        |             | 31.67%            | -4.99                    | 24.00                  | 24.00                   | 19.01                                | No       |
|                    |        |             | 43.33%            | -3.63                    | 24.00                  | 24.00                   | 20.37                                | No       |
|                    |        |             | 53.33%            | -2.73                    | 24.00                  | 24.00                   | 21.27                                | No       |
|                    |        |             | 63.33%            | -1.98                    | 24.00                  | 24.00                   | <b>22.02</b>                         | Yes      |
| LTE B41            | Ant 31 | DSI 4/7     | 11.67%            | -9.33                    | 24.00                  | 23.50                   | 14.67                                | No       |
|                    |        |             | 21.67%            | -6.64                    | 24.00                  | 23.50                   | 17.36                                | No       |
|                    |        |             | 23.33%            | -6.32                    | 24.00                  | 23.50                   | 17.68                                | No       |
|                    |        |             | 31.67%            | -4.99                    | 24.00                  | 23.50                   | 19.01                                | No       |
|                    |        |             | 43.33%            | -3.63                    | 24.00                  | 23.50                   | 20.37                                | No       |
|                    |        |             | 53.33%            | -2.73                    | 24.00                  | 23.50                   | 21.27                                | No       |
|                    |        |             | 63.33%            | -1.98                    | 24.00                  | 23.50                   | <b>22.02</b>                         | Yes      |
| LTE B41            | Ant 31 | DSI 5/6     | 11.67%            | -9.33                    | 24.00                  | 22.00                   | 14.67                                | No       |
|                    |        |             | 21.67%            | -6.64                    | 24.00                  | 22.00                   | 17.36                                | No       |
|                    |        |             | 23.33%            | -6.32                    | 24.00                  | 22.00                   | 17.68                                | No       |
|                    |        |             | 31.67%            | -4.99                    | 24.00                  | 22.00                   | 19.01                                | No       |
|                    |        |             | 43.33%            | -3.63                    | 24.00                  | 22.00                   | 20.37                                | No       |
|                    |        |             | 53.33%            | -2.73                    | 24.00                  | 22.00                   | 21.27                                | No       |
|                    |        |             | 63.33%            | -1.98                    | 23.98                  | 22.00                   | <b>22.00</b>                         | Yes      |
| LTE B38            | Ant 15 | DSI 2       | 11.67%            | -9.33                    | 23.30                  | 16.80                   | 13.97                                | No       |
|                    |        |             | 21.67%            | -6.64                    | 23.30                  | 16.80                   | 16.66                                | No       |
|                    |        |             | 23.33%            | -6.32                    | 23.12                  | 16.80                   | 16.80                                | No       |
|                    |        |             | 31.67%            | -4.99                    | 21.79                  | 16.80                   | 16.80                                | No       |
|                    |        |             | 43.33%            | -3.63                    | 20.43                  | 16.80                   | 16.80                                | No       |
|                    |        |             | 53.33%            | -2.73                    | 19.53                  | 16.80                   | 16.80                                | No       |
|                    |        |             | 63.33%            | -1.98                    | 18.78                  | 16.80                   | <b>16.80</b>                         | Yes      |



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|         |        |         |        |       |       |       |              |     |
|---------|--------|---------|--------|-------|-------|-------|--------------|-----|
| LTE B38 | Ant 15 | DSI 3   | 11.67% | -9.33 | 23.30 | 15.80 | 13.97        | No  |
|         |        |         | 21.67% | -6.64 | 22.44 | 15.80 | 15.80        | No  |
|         |        |         | 23.33% | -6.32 | 22.12 | 15.80 | 15.80        | No  |
|         |        |         | 31.67% | -4.99 | 20.79 | 15.80 | 15.80        | No  |
|         |        |         | 43.33% | -3.63 | 19.43 | 15.80 | 15.80        | No  |
|         |        |         | 53.33% | -2.73 | 18.53 | 15.80 | 15.80        | No  |
|         |        |         | 63.33% | -1.98 | 17.78 | 15.80 | <b>15.80</b> | Yes |
| LTE B38 | Ant 15 | DSI 4/7 | 11.67% | -9.33 | 23.30 | 23.30 | 13.97        | No  |
|         |        |         | 21.67% | -6.64 | 23.30 | 23.30 | 16.66        | No  |
|         |        |         | 23.33% | -6.32 | 23.30 | 23.30 | 16.98        | No  |
|         |        |         | 31.67% | -4.99 | 23.30 | 23.30 | 18.31        | No  |
|         |        |         | 43.33% | -3.63 | 23.30 | 23.30 | 19.67        | No  |
|         |        |         | 53.33% | -2.73 | 23.30 | 23.30 | 20.57        | No  |
|         |        |         | 63.33% | -1.98 | 23.30 | 23.30 | <b>21.32</b> | Yes |
| LTE B38 | Ant 15 | DSI 5/6 | 11.67% | -9.33 | 23.30 | 22.30 | 13.97        | No  |
|         |        |         | 21.67% | -6.64 | 23.30 | 22.30 | 16.66        | No  |
|         |        |         | 23.33% | -6.32 | 23.30 | 22.30 | 16.98        | No  |
|         |        |         | 31.67% | -4.99 | 23.30 | 22.30 | 18.31        | No  |
|         |        |         | 43.33% | -3.63 | 23.30 | 22.30 | 19.67        | No  |
|         |        |         | 53.33% | -2.73 | 23.30 | 22.30 | 20.57        | No  |
|         |        |         | 63.33% | -1.98 | 23.30 | 22.30 | <b>21.32</b> | Yes |
| LTE B41 | Ant 15 | DSI 2   | 11.67% | -9.33 | 23.30 | 16.80 | 13.97        | No  |
|         |        |         | 21.67% | -6.64 | 23.30 | 16.80 | 16.66        | No  |
|         |        |         | 23.33% | -6.32 | 23.12 | 16.80 | 16.80        | No  |
|         |        |         | 31.67% | -4.99 | 21.79 | 16.80 | 16.80        | No  |
|         |        |         | 43.33% | -3.63 | 20.43 | 16.80 | 16.80        | No  |
|         |        |         | 53.33% | -2.73 | 19.53 | 16.80 | 16.80        | No  |
|         |        |         | 63.33% | -1.98 | 18.78 | 16.80 | <b>16.80</b> | Yes |
| LTE B41 | Ant 15 | DSI 3   | 11.67% | -9.33 | 23.30 | 15.80 | 13.97        | No  |
|         |        |         | 21.67% | -6.64 | 22.44 | 15.80 | 15.80        | No  |
|         |        |         | 23.33% | -6.32 | 22.12 | 15.80 | 15.80        | No  |
|         |        |         | 31.67% | -4.99 | 20.79 | 15.80 | 15.80        | No  |
|         |        |         | 43.33% | -3.63 | 19.43 | 15.80 | 15.80        | No  |
|         |        |         | 53.33% | -2.73 | 18.53 | 15.80 | 15.80        | No  |
|         |        |         | 63.33% | -1.98 | 17.78 | 15.80 | <b>15.80</b> | Yes |
| LTE B41 | Ant 15 | DSI 4/7 | 11.67% | -9.33 | 23.30 | 23.30 | 13.97        | No  |
|         |        |         | 21.67% | -6.64 | 23.30 | 23.30 | 16.66        | No  |
|         |        |         | 23.33% | -6.32 | 23.30 | 23.30 | 16.98        | No  |
|         |        |         | 31.67% | -4.99 | 23.30 | 23.30 | 18.31        | No  |
|         |        |         | 43.33% | -3.63 | 23.30 | 23.30 | 19.67        | No  |
|         |        |         | 53.33% | -2.73 | 23.30 | 23.30 | 20.57        | No  |
|         |        |         | 63.33% | -1.98 | 23.30 | 23.30 | <b>21.32</b> | Yes |
| LTE B41 | Ant 15 | DSI 5/6 | 11.67% | -9.33 | 23.30 | 22.30 | 13.97        | No  |
|         |        |         | 21.67% | -6.64 | 23.30 | 22.30 | 16.66        | No  |
|         |        |         | 23.33% | -6.32 | 23.30 | 22.30 | 16.98        | No  |
|         |        |         | 31.67% | -4.99 | 23.30 | 22.30 | 18.31        | No  |
|         |        |         | 43.33% | -3.63 | 23.30 | 22.30 | 19.67        | No  |
|         |        |         | 53.33% | -2.73 | 23.30 | 22.30 | 20.57        | No  |
|         |        |         | 63.33% | -1.98 | 23.30 | 22.30 | <b>21.32</b> | Yes |



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In this report for NR TDD band the max tune-up power under each duty cycle is uniformly converted into the signaling average power under 100% duty cycle. The signaling average power is not more than 100% Duty Cycle FTM mode power of 0.25dB and above, and the 1-g reported SAR is  $\leq 1.2$  W/kg or 10-g reported SAR is  $\leq 3.0$  W/kg, only the SAR of 100% Duty Cycle FTM mode will be tested.

| SA NR TDD duty cycle |        |             |                   |                          |                        |                         |                                      |          |
|----------------------|--------|-------------|-------------------|--------------------------|------------------------|-------------------------|--------------------------------------|----------|
| Band                 | Ant.   | Power Level | Max UL duty cycle | Max UL duty cycle factor | P <sub>max</sub> (dBm) | P <sub>limt</sub> (dBm) | P <sub>max</sub> Frame-Averaged(dBm) | SAR test |
| N38                  | Ant 12 | DSI 2       | 21.40%            | -6.70                    | 24.00                  | 20.00                   | 17.30                                | No       |
|                      |        |             | 41.40%            | -3.83                    | 23.83                  | 20.00                   | 20.00                                | No       |
|                      |        |             | 61.40%            | -2.12                    | 22.12                  | 20.00                   | 20.00                                | No       |
|                      |        |             | 100.00%           | 0.00                     | 20.00                  | 20.00                   | <b>20.00</b>                         | Yes      |
| N38                  | Ant 12 | DSI 3/5/6   | 21.40%            | -6.70                    | 24.00                  | 19.50                   | 17.30                                | No       |
|                      |        |             | 41.40%            | -3.83                    | 23.33                  | 19.50                   | 19.50                                | No       |
|                      |        |             | 61.40%            | -2.12                    | 21.62                  | 19.50                   | 19.50                                | No       |
|                      |        |             | 100.00%           | 0.00                     | 19.50                  | 19.50                   | <b>19.50</b>                         | Yes      |
| N38                  | Ant 12 | DSI 4       | 21.40%            | -6.70                    | 24.00                  | 21.00                   | 17.30                                | No       |
|                      |        |             | 41.40%            | -3.83                    | 24.00                  | 21.00                   | 20.17                                | No       |
|                      |        |             | 61.40%            | -2.12                    | 23.12                  | 21.00                   | 21.00                                | No       |
|                      |        |             | 100.00%           | 0.00                     | 21.00                  | 21.00                   | <b>21.00</b>                         | Yes      |
| N38                  | Ant 12 | DSI 7       | 21.40%            | -6.70                    | 24.00                  | 24.00                   | 17.30                                | No       |
|                      |        |             | 41.40%            | -3.83                    | 24.00                  | 24.00                   | 20.17                                | No       |
|                      |        |             | 61.40%            | -2.12                    | 24.00                  | 24.00                   | 21.88                                | No       |
|                      |        |             | 100.00%           | 0.00                     | 24.00                  | 24.00                   | <b>24.00</b>                         | Yes      |
| N41 PC2              | Ant 12 | DSI 2       | 21.40%            | -6.70                    | 24.50                  | 20.50                   | 17.80                                | No       |
|                      |        |             | 41.40%            | -3.83                    | 24.33                  | 20.50                   | 20.50                                | No       |
|                      |        |             | 61.40%            | -2.12                    | 22.62                  | 20.50                   | 20.50                                | No       |
|                      |        |             | 100.00%           | 0.00                     | 20.50                  | 20.50                   | <b>20.50</b>                         | Yes      |
| N41 PC2              | Ant 12 | DSI 3       | 21.40%            | -6.70                    | 24.50                  | 19.50                   | 17.80                                | No       |
|                      |        |             | 41.40%            | -3.83                    | 23.33                  | 19.50                   | 19.50                                | No       |
|                      |        |             | 61.40%            | -2.12                    | 21.62                  | 19.50                   | 19.50                                | No       |
|                      |        |             | 100.00%           | 0.00                     | 19.50                  | 19.50                   | <b>19.50</b>                         | Yes      |
| N41 PC2              | Ant 12 | DSI 4       | 21.40%            | -6.70                    | 24.50                  | 21.50                   | 17.80                                | No       |
|                      |        |             | 41.40%            | -3.83                    | 24.50                  | 21.50                   | 20.67                                | No       |
|                      |        |             | 61.40%            | -2.12                    | 23.62                  | 21.50                   | 21.50                                | No       |
|                      |        |             | 100.00%           | 0.00                     | 21.50                  | 21.50                   | <b>21.50</b>                         | Yes      |
| N41 PC2              | Ant 12 | DSI 5/6     | 21.40%            | -6.70                    | 24.50                  | 20.00                   | 17.80                                | No       |
|                      |        |             | 41.40%            | -3.83                    | 23.83                  | 20.00                   | 20.00                                | No       |
|                      |        |             | 61.40%            | -2.12                    | 22.12                  | 20.00                   | 20.00                                | No       |
|                      |        |             | 100.00%           | 0.00                     | 20.00                  | 20.00                   | <b>20.00</b>                         | Yes      |
| N41 PC2              | Ant 12 | DSI 7       | 21.40%            | -6.70                    | 24.50                  | 24.50                   | 17.80                                | No       |
|                      |        |             | 41.40%            | -3.83                    | 24.50                  | 24.50                   | 20.67                                | No       |
|                      |        |             | 61.40%            | -2.12                    | 24.50                  | 24.50                   | 22.38                                | No       |
|                      |        |             | 100.00%           | 0.00                     | 24.50                  | 24.50                   | <b>24.50</b>                         | Yes      |
| N41 PC3              | Ant 12 | DSI 2       | 21.40%            | -6.70                    | 23.00                  | 20.50                   | 16.30                                | No       |
|                      |        |             | 41.40%            | -3.83                    | 23.00                  | 20.50                   | 19.17                                | No       |
|                      |        |             | 61.40%            | -2.12                    | 22.62                  | 20.50                   | 20.50                                | No       |
|                      |        |             | 100.00%           | 0.00                     | 20.50                  | 20.50                   | <b>20.50</b>                         | Yes      |
| N41 PC3              | Ant 12 | DSI 3       | 21.40%            | -6.70                    | 23.00                  | 19.50                   | 16.30                                | No       |
|                      |        |             | 41.40%            | -3.83                    | 23.00                  | 19.50                   | 19.17                                | No       |
|                      |        |             | 61.40%            | -2.12                    | 21.62                  | 19.50                   | 19.50                                | No       |
|                      |        |             | 100.00%           | 0.00                     | 19.50                  | 19.50                   | <b>19.50</b>                         | Yes      |
| N41 PC3              | Ant 12 | DSI 4       | 21.40%            | -6.70                    | 23.00                  | 21.50                   | 16.30                                | No       |
|                      |        |             | 41.40%            | -3.83                    | 23.00                  | 21.50                   | 19.17                                | No       |
|                      |        |             | 61.40%            | -2.12                    | 23.00                  | 21.50                   | 20.88                                | No       |
|                      |        |             | 100.00%           | 0.00                     | 21.50                  | 21.50                   | <b>21.50</b>                         | Yes      |
| N41 PC3              | Ant 12 | DSI 5/6     | 21.40%            | -6.70                    | 23.00                  | 20.00                   | 16.30                                | No       |
|                      |        |             | 41.40%            | -3.83                    | 23.00                  | 20.00                   | 19.17                                | No       |
|                      |        |             | 61.40%            | -2.12                    | 22.12                  | 20.00                   | 20.00                                | No       |
|                      |        |             | 100.00%           | 0.00                     | 20.00                  | 20.00                   | <b>20.00</b>                         | Yes      |



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|         |        |         |         |       |       |       |              |     |
|---------|--------|---------|---------|-------|-------|-------|--------------|-----|
| N41 PC3 | Ant 12 | DSI 7   | 21.40%  | -6.70 | 23.00 | 23.00 | 16.30        | No  |
|         |        |         | 41.40%  | -3.83 | 23.00 | 23.00 | 19.17        | No  |
|         |        |         | 61.40%  | -2.12 | 23.00 | 23.00 | 20.88        | No  |
|         |        |         | 100.00% | 0.00  | 23.00 | 23.00 | <b>23.00</b> | Yes |
| N77     | Ant 13 | DSI 2   | 21.40%  | -6.70 | 23.50 | 17.50 | 16.80        | No  |
|         |        |         | 41.40%  | -3.83 | 21.33 | 17.50 | 17.50        | No  |
|         |        |         | 61.40%  | -2.12 | 19.62 | 17.50 | 17.50        | No  |
|         |        |         | 100.00% | 0.00  | 17.50 | 17.50 | <b>17.50</b> | Yes |
| N77     | Ant 13 | DSI 3   | 21.40%  | -6.70 | 23.20 | 16.50 | 16.50        | No  |
|         |        |         | 41.40%  | -3.83 | 20.33 | 16.50 | 16.50        | No  |
|         |        |         | 61.40%  | -2.12 | 18.62 | 16.50 | 16.50        | No  |
|         |        |         | 100.00% | 0.00  | 16.50 | 16.50 | <b>16.50</b> | Yes |
| N77     | Ant 13 | DSI 4   | 21.40%  | -6.70 | 23.50 | 17.00 | 16.80        | No  |
|         |        |         | 41.40%  | -3.83 | 20.83 | 17.00 | 17.00        | No  |
|         |        |         | 61.40%  | -2.12 | 19.12 | 17.00 | 17.00        | No  |
|         |        |         | 100.00% | 0.00  | 17.00 | 17.00 | <b>17.00</b> | Yes |
| N77     | Ant 13 | DSI 5/6 | 21.40%  | -6.70 | 22.20 | 15.50 | 15.50        | No  |
|         |        |         | 41.40%  | -3.83 | 19.33 | 15.50 | 15.50        | No  |
|         |        |         | 61.40%  | -2.12 | 17.62 | 15.50 | 15.50        | No  |
|         |        |         | 100.00% | 0.00  | 15.50 | 15.50 | <b>15.50</b> | Yes |
| N77     | Ant 13 | DSI 7   | 21.40%  | -6.70 | 23.50 | 23.50 | 16.80        | No  |
|         |        |         | 41.40%  | -3.83 | 23.50 | 23.50 | 19.67        | No  |
|         |        |         | 61.40%  | -2.12 | 23.50 | 23.50 | 21.38        | No  |
|         |        |         | 100.00% | 0.00  | 23.50 | 23.50 | <b>23.50</b> | Yes |
| N78 PC2 | Ant 13 | DSI 2/4 | 21.40%  | -6.70 | 23.90 | 17.20 | 17.20        | No  |
|         |        |         | 41.40%  | -3.83 | 21.03 | 17.20 | 17.20        | No  |
|         |        |         | 61.40%  | -2.12 | 19.32 | 17.20 | 17.20        | No  |
|         |        |         | 100.00% | 0.00  | 17.20 | 17.20 | <b>17.20</b> | Yes |
| N78 PC2 | Ant 13 | DSI 3   | 21.40%  | -6.70 | 22.90 | 16.20 | 16.20        | No  |
|         |        |         | 41.40%  | -3.83 | 20.03 | 16.20 | 16.20        | No  |
|         |        |         | 61.40%  | -2.12 | 18.32 | 16.20 | 16.20        | No  |
|         |        |         | 100.00% | 0.00  | 16.20 | 16.20 | <b>16.20</b> | Yes |
| N78 PC2 | Ant 13 | DSI 5/6 | 21.40%  | -6.70 | 22.40 | 15.70 | 15.70        | No  |
|         |        |         | 41.40%  | -3.83 | 19.53 | 15.70 | 15.70        | No  |
|         |        |         | 61.40%  | -2.12 | 17.82 | 15.70 | 15.70        | No  |
|         |        |         | 100.00% | 0.00  | 15.70 | 15.70 | <b>15.70</b> | Yes |
| N78 PC2 | Ant 13 | DSI 7   | 21.40%  | -6.70 | 25.70 | 24.20 | 19.00        | No  |
|         |        |         | 41.40%  | -3.83 | 25.70 | 24.20 | 21.87        | No  |
|         |        |         | 61.40%  | -2.12 | 25.70 | 24.20 | 23.58        | No  |
|         |        |         | 100.00% | 0.00  | 24.20 | 24.20 | <b>24.20</b> | Yes |
| N78 PC3 | Ant 13 | DSI 2/4 | 21.40%  | -6.70 | 22.70 | 17.20 | 16.00        | No  |
|         |        |         | 41.40%  | -3.83 | 21.03 | 17.20 | 17.20        | No  |
|         |        |         | 61.40%  | -2.12 | 19.32 | 17.20 | 17.20        | No  |
|         |        |         | 100.00% | 0.00  | 17.20 | 17.20 | <b>17.20</b> | Yes |
| N78 PC3 | Ant 13 | DSI 3   | 21.40%  | -6.70 | 22.70 | 16.20 | 16.00        | No  |
|         |        |         | 41.40%  | -3.83 | 20.03 | 16.20 | 16.20        | No  |
|         |        |         | 61.40%  | -2.12 | 18.32 | 16.20 | 16.20        | No  |
|         |        |         | 100.00% | 0.00  | 16.20 | 16.20 | <b>16.20</b> | Yes |
| N78 PC3 | Ant 13 | DSI 5/6 | 21.40%  | -6.70 | 22.40 | 15.70 | 15.70        | No  |
|         |        |         | 41.40%  | -3.83 | 19.53 | 15.70 | 15.70        | No  |
|         |        |         | 61.40%  | -2.12 | 17.82 | 15.70 | 15.70        | No  |
|         |        |         | 100.00% | 0.00  | 15.70 | 15.70 | <b>15.70</b> | Yes |
| N78 PC3 | Ant 13 | DSI 7   | 21.40%  | -6.70 | 22.70 | 22.70 | 16.00        | No  |
|         |        |         | 41.40%  | -3.83 | 22.70 | 22.70 | 18.87        | No  |
|         |        |         | 61.40%  | -2.12 | 22.70 | 22.70 | 20.58        | No  |
|         |        |         | 100.00% | 0.00  | 22.70 | 22.70 | <b>22.70</b> | Yes |
| N38     | Ant 23 | DSI 2   | 21.40%  | -6.70 | 23.00 | 18.00 | 16.30        | No  |
|         |        |         | 41.40%  | -3.83 | 21.83 | 18.00 | 18.00        | No  |
|         |        |         | 61.40%  | -2.12 | 20.12 | 18.00 | 18.00        | No  |
|         |        |         | 100.00% | 0.00  | 18.00 | 18.00 | <b>18.00</b> | Yes |
| N38     | Ant 23 | DSI 3   | 21.40%  | -6.70 | 23.00 | 17.00 | 16.30        | No  |
|         |        |         | 41.40%  | -3.83 | 20.83 | 17.00 | 17.00        | No  |



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|         |        |         |         |       |       |       |              |     |
|---------|--------|---------|---------|-------|-------|-------|--------------|-----|
| N38     | Ant 23 | DSI 4/7 | 61.40%  | -2.12 | 19.12 | 17.00 | 17.00        | No  |
|         |        |         | 100.00% | 0.00  | 17.00 | 17.00 | <b>17.00</b> | Yes |
|         |        |         | 21.40%  | -6.70 | 23.00 | 20.50 | 16.30        | No  |
|         |        |         | 41.40%  | -3.83 | 23.00 | 20.50 | 19.17        | No  |
|         |        |         | 61.40%  | -2.12 | 22.62 | 20.50 | 20.50        | No  |
| N38     | Ant 23 | DSI 5/6 | 100.00% | 0.00  | 20.50 | 20.50 | <b>20.50</b> | Yes |
|         |        |         | 21.40%  | -6.70 | 23.00 | 19.00 | 16.30        | No  |
|         |        |         | 41.40%  | -3.83 | 22.83 | 19.00 | 19.00        | No  |
|         |        |         | 61.40%  | -2.12 | 21.12 | 19.00 | 19.00        | No  |
|         |        |         | 100.00% | 0.00  | 19.00 | 19.00 | <b>19.00</b> | Yes |
| N41 PC2 | Ant 23 | DSI 2   | 21.40%  | -6.70 | 23.50 | 17.00 | 16.80        | No  |
|         |        |         | 41.40%  | -3.83 | 20.83 | 17.00 | 17.00        | No  |
|         |        |         | 61.40%  | -2.12 | 19.12 | 17.00 | 17.00        | No  |
|         |        |         | 100.00% | 0.00  | 17.00 | 17.00 | <b>17.00</b> | Yes |
|         |        |         | 21.40%  | -6.70 | 22.70 | 16.00 | 16.00        | No  |
| N41 PC2 | Ant 23 | DSI 3   | 41.40%  | -3.83 | 19.83 | 16.00 | 16.00        | No  |
|         |        |         | 61.40%  | -2.12 | 18.12 | 16.00 | 16.00        | No  |
|         |        |         | 100.00% | 0.00  | 16.00 | 16.00 | <b>16.00</b> | Yes |
|         |        |         | 21.40%  | -6.70 | 23.50 | 20.00 | 16.80        | No  |
|         |        |         | 41.40%  | -3.83 | 23.50 | 20.00 | 19.67        | No  |
| N41 PC2 | Ant 23 | DSI 4/7 | 61.40%  | -2.12 | 22.12 | 20.00 | 20.00        | No  |
|         |        |         | 100.00% | 0.00  | 20.00 | 20.00 | <b>20.00</b> | Yes |
|         |        |         | 21.40%  | -6.70 | 23.50 | 18.50 | 16.80        | No  |
|         |        |         | 41.40%  | -3.83 | 22.33 | 18.50 | 18.50        | No  |
|         |        |         | 61.40%  | -2.12 | 20.62 | 18.50 | 18.50        | No  |
| N41 PC2 | Ant 23 | DSI 5/6 | 100.00% | 0.00  | 18.50 | 18.50 | <b>18.50</b> | Yes |
|         |        |         | 21.40%  | -6.70 | 20.50 | 17.00 | 13.80        | No  |
|         |        |         | 41.40%  | -3.83 | 20.50 | 17.00 | 16.67        | No  |
|         |        |         | 61.40%  | -2.12 | 19.12 | 17.00 | 17.00        | No  |
|         |        |         | 100.00% | 0.00  | 17.00 | 17.00 | <b>17.00</b> | Yes |
| N41 PC3 | Ant 23 | DSI 2   | 21.40%  | -6.70 | 20.50 | 16.00 | 13.80        | No  |
|         |        |         | 41.40%  | -3.83 | 19.83 | 16.00 | 16.00        | No  |
|         |        |         | 61.40%  | -2.12 | 18.12 | 16.00 | 16.00        | No  |
|         |        |         | 100.00% | 0.00  | 16.00 | 16.00 | <b>16.00</b> | Yes |
|         |        |         | 21.40%  | -6.70 | 20.50 | 20.00 | 13.80        | No  |
| N41 PC3 | Ant 23 | DSI 3   | 41.40%  | -3.83 | 20.50 | 20.00 | 16.67        | No  |
|         |        |         | 61.40%  | -2.12 | 20.50 | 20.00 | 18.38        | No  |
|         |        |         | 100.00% | 0.00  | 20.00 | 20.00 | <b>20.00</b> | Yes |
|         |        |         | 21.40%  | -6.70 | 20.50 | 18.50 | 13.80        | No  |
|         |        |         | 41.40%  | -3.83 | 20.50 | 18.50 | 16.67        | No  |
| N41 PC3 | Ant 23 | DSI 4/7 | 61.40%  | -2.12 | 20.50 | 18.50 | 18.38        | No  |
|         |        |         | 100.00% | 0.00  | 18.50 | 18.50 | <b>18.50</b> | Yes |
|         |        |         | 21.40%  | -6.70 | 20.50 | 16.50 | 13.80        | No  |
|         |        |         | 41.40%  | -3.83 | 20.33 | 16.50 | 16.50        | No  |
|         |        |         | 61.40%  | -2.12 | 18.62 | 16.50 | 16.50        | No  |
| N41 PC3 | Ant 23 | DSI 5/6 | 100.00% | 0.00  | 16.50 | 16.50 | <b>16.50</b> | Yes |
|         |        |         | 21.40%  | -6.70 | 20.50 | 15.50 | 13.80        | No  |
|         |        |         | 41.40%  | -3.83 | 19.33 | 15.50 | 15.50        | No  |
|         |        |         | 61.40%  | -2.12 | 17.62 | 15.50 | 15.50        | No  |
|         |        |         | 100.00% | 0.00  | 15.50 | 15.50 | <b>15.50</b> | Yes |
| N77     | Ant 23 | DSI 2   | 21.40%  | -6.70 | 20.50 | 18.00 | 13.80        | No  |
|         |        |         | 41.40%  | -3.83 | 20.50 | 18.00 | 16.67        | No  |
|         |        |         | 61.40%  | -2.12 | 20.12 | 18.00 | 18.00        | No  |
|         |        |         | 100.00% | 0.00  | 18.00 | 18.00 | <b>18.00</b> | Yes |
|         |        |         | 21.40%  | -6.70 | 22.00 | 16.50 | 15.30        | No  |
| N77     | Ant 23 | DSI 3   | 41.40%  | -3.83 | 20.33 | 16.50 | 16.50        | No  |
|         |        |         | 61.40%  | -2.12 | 18.62 | 16.50 | 16.50        | No  |
|         |        |         | 100.00% | 0.00  | 16.50 | 16.50 | <b>16.50</b> | Yes |
|         |        |         | 21.40%  | -6.70 | 22.00 | 16.00 | 15.30        | No  |
|         |        |         | 41.40%  | -3.83 | 19.83 | 16.00 | 16.00        | No  |
| N78 PC2 | Ant 23 | DSI 4/7 | 61.40%  | -2.12 | 18.12 | 16.00 | 16.00        | No  |
|         |        |         | 100.00% | 0.00  | 16.00 | 16.00 | <b>16.00</b> | Yes |
|         |        |         | 21.40%  | -6.70 | 22.00 | 16.00 | 15.30        | No  |
|         |        |         | 41.40%  | -3.83 | 19.83 | 16.00 | 16.00        | No  |
|         |        |         | 61.40%  | -2.12 | 18.12 | 16.00 | 16.00        | No  |
| N78 PC2 | Ant 23 | DSI 5/6 | 100.00% | 0.00  | 16.00 | 16.00 | <b>16.00</b> | Yes |
|         |        |         | 21.40%  | -6.70 | 22.00 | 16.00 | 15.30        | No  |
|         |        |         | 41.40%  | -3.83 | 19.83 | 16.00 | 16.00        | No  |
|         |        |         | 61.40%  | -2.12 | 18.12 | 16.00 | 16.00        | No  |
|         |        |         | 100.00% | 0.00  | 16.00 | 16.00 | <b>16.00</b> | Yes |



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|         |        |         |         |       |       |       |              |     |
|---------|--------|---------|---------|-------|-------|-------|--------------|-----|
| N78 PC2 | Ant 23 | DSI 4/7 | 21.40%  | -6.70 | 22.00 | 18.50 | 15.30        | No  |
|         |        |         | 41.40%  | -3.83 | 22.00 | 18.50 | 18.17        | No  |
|         |        |         | 61.40%  | -2.12 | 20.62 | 18.50 | 18.50        | No  |
|         |        |         | 100.00% | 0.00  | 18.50 | 18.50 | <b>18.50</b> | Yes |
| N78 PC2 | Ant 23 | DSI 5/6 | 21.40%  | -6.70 | 22.00 | 17.00 | 15.30        | No  |
|         |        |         | 41.40%  | -3.83 | 20.83 | 17.00 | 17.00        | No  |
|         |        |         | 61.40%  | -2.12 | 19.12 | 17.00 | 17.00        | No  |
|         |        |         | 100.00% | 0.00  | 17.00 | 17.00 | <b>17.00</b> | Yes |
| N78 PC3 | Ant 23 | DSI 2   | 21.40%  | -6.70 | 19.00 | 16.50 | 12.30        | No  |
|         |        |         | 41.40%  | -3.83 | 19.00 | 16.50 | 15.17        | No  |
|         |        |         | 61.40%  | -2.12 | 18.62 | 16.50 | 16.50        | No  |
|         |        |         | 100.00% | 0.00  | 16.50 | 16.50 | <b>16.50</b> | Yes |
| N78 PC3 | Ant 23 | DSI 3   | 21.40%  | -6.70 | 19.00 | 16.00 | 12.30        | No  |
|         |        |         | 41.40%  | -3.83 | 19.00 | 16.00 | 15.17        | No  |
|         |        |         | 61.40%  | -2.12 | 18.12 | 16.00 | 16.00        | No  |
|         |        |         | 100.00% | 0.00  | 16.00 | 16.00 | <b>16.00</b> | Yes |
| N78 PC3 | Ant 23 | DSI 4/7 | 21.40%  | -6.70 | 19.00 | 18.50 | 12.30        | No  |
|         |        |         | 41.40%  | -3.83 | 19.00 | 18.50 | 15.17        | No  |
|         |        |         | 61.40%  | -2.12 | 19.00 | 18.50 | 16.88        | No  |
|         |        |         | 100.00% | 0.00  | 18.50 | 18.50 | <b>18.50</b> | Yes |
| N78 PC3 | Ant 23 | DSI 5/6 | 21.40%  | -6.70 | 19.00 | 17.00 | 12.30        | No  |
|         |        |         | 41.40%  | -3.83 | 19.00 | 17.00 | 15.17        | No  |
|         |        |         | 61.40%  | -2.12 | 19.00 | 17.00 | 16.88        | No  |
|         |        |         | 100.00% | 0.00  | 17.00 | 17.00 | <b>17.00</b> | Yes |



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## 8 Test Result

### 8.1 Measurement of RF conducted Power

The detailed conducted power can be referred to Appendix E.

**Note:**

- 1) . For SAR the time based average power is relevant. The difference in between depends on the duty cycle of the TDMA signal:

| No. of timeslots                                     | 1     | 2      | 3      | 4       |
|------------------------------------------------------|-------|--------|--------|---------|
| Duty Cycle                                           | 1:8.3 | 1:4.15 | 1:2.77 | 1:2.075 |
| Time based avg. power compared to slotted avg. power | -9.19 | -6.18  | -4.42  | -3.17   |

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:  
Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8.
- 3) . When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.
- 4) . According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 5) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 6) . Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.
- 7) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.  
The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.  
The conducted power measurement results of downlink LTE CA Conducted Power are as Appendix E conducted RF output power, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.
- 8) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
- 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.



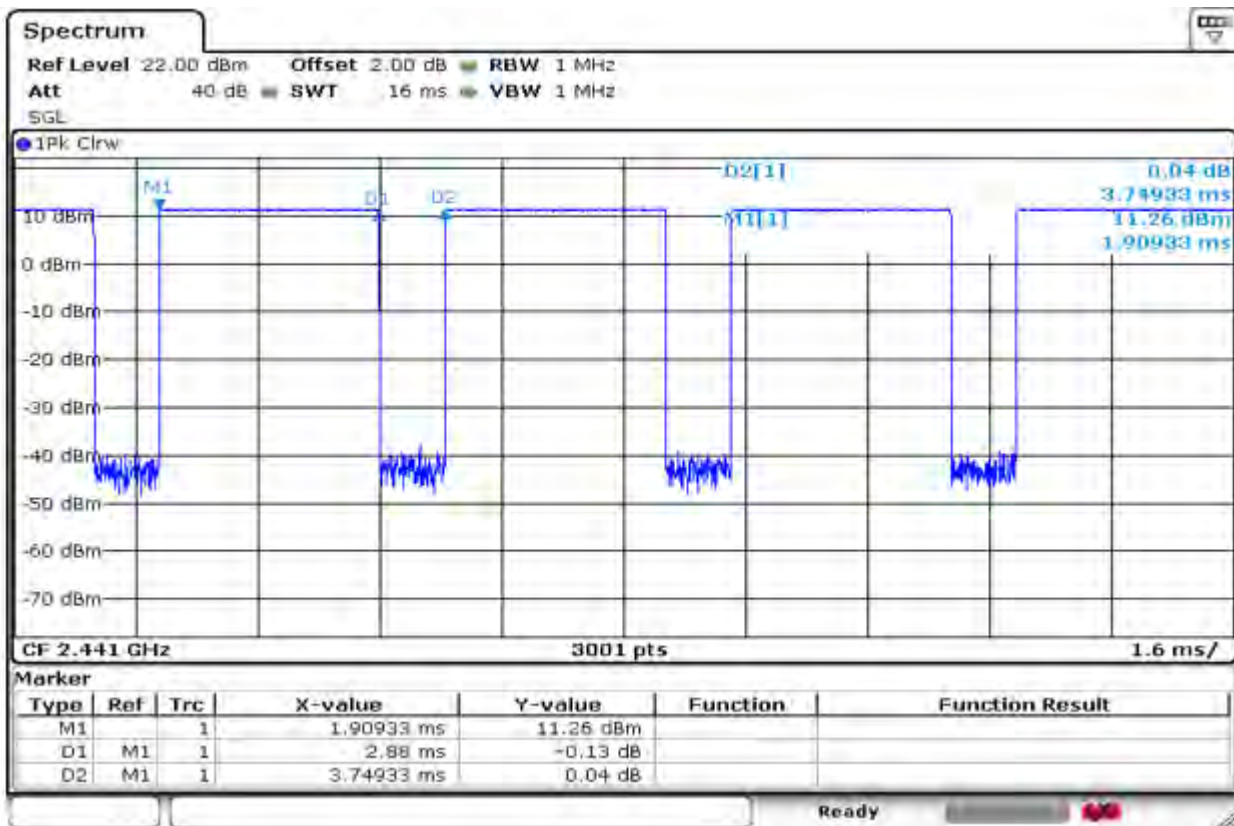
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2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

9) . The conducted power of BT is measured with RMS detector. BT DH5 Duty Cycle=2.88/3.74933=76.81%



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## 8.2 Measurement of SAR Data

### Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
  - $\leq 0.8\text{W/kg}$  for 1-g or  $2.0\text{W/kg}$  for 10-g respectively, when the transmission band is  $\leq 100\text{MHz}$ .
  - $\leq 0.6\text{ W/kg}$  or  $1.5\text{ W/kg}$ , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
  - $\leq 0.4\text{ W/kg}$  or  $1.0\text{ W/kg}$ , for 1-g or 10-g respectively, when the transmission band is  $\geq 200\text{ MHz}$ .

### WiFi 2.4G:

- 1) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is  $\leq 1.2\text{ W/kg}$ , SAR test for the other 802.11 modes are not required.

### WiFi 5G:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is  $\leq 1.2\text{ W/kg}$ , SAR is not required for U-NII-1 band for that configuration.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.

When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is  $\leq 1.2\text{ W/kg}$ , SAR test for the other 802.11 modes are not required.



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## 8.2.1 SAR Result of GSM850

| Ant 11 Test Record                          |           |                |            |                |                  |                      |                    |               |                       |                 |
|---------------------------------------------|-----------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|-----------------|
| Test position                               | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(℃) |
| Head Test Data DSI 2                        |           |                |            |                |                  |                      |                    |               |                       |                 |
| Left cheek                                  | GPRS 2TS  | 190/836.6      | 1:4.15     | 0.381          | -0.08            | 30.68                | 31.30              | 1.153         | <b>0.439</b>          | 22.6            |
| Left tilted                                 | GPRS 2TS  | 190/836.6      | 1:4.15     | 0.049          | 0.08             | 30.68                | 31.30              | 1.153         | 0.056                 | 22.6            |
| Right cheek                                 | GPRS 2TS  | 190/836.6      | 1:4.15     | 0.232          | 0.02             | 30.68                | 31.30              | 1.153         | 0.268                 | 22.6            |
| Right tilted                                | GPRS 2TS  | 190/836.6      | 1:4.15     | 0.045          | 0.03             | 30.68                | 31.30              | 1.153         | 0.052                 | 22.6            |
| Body worn Test data (Separate 15mm) DSI 4/7 |           |                |            |                |                  |                      |                    |               |                       |                 |
| Front side                                  | GSM       | 190/836.6      | 1:8.3      | 0.110          | 0.16             | 33.00                | 33.70              | 1.175         | 0.129                 | 22.6            |
| Back side                                   | GSM       | 190/836.6      | 1:8.3      | 0.144          | -0.12            | 33.00                | 33.70              | 1.175         | 0.169                 | 22.6            |
| Hotspot Test data (Separate 10mm) DSI 6     |           |                |            |                |                  |                      |                    |               |                       |                 |
| Front side                                  | GPRS 2TS  | 190/836.6      | 1:4.15     | 0.184          | 0.19             | 30.68                | 31.30              | 1.153         | 0.212                 | 22.6            |
| Back side                                   | GPRS 2TS  | 190/836.6      | 1:4.15     | 0.273          | -0.17            | 30.68                | 31.30              | 1.153         | 0.315                 | 22.6            |
| Left side                                   | GPRS 2TS  | 190/836.6      | 1:4.15     | 0.397          | 0.07             | 30.68                | 31.30              | 1.153         | <b>0.458</b>          | 22.6            |
| Ant 41 Test Record                          |           |                |            |                |                  |                      |                    |               |                       |                 |
| Test position                               | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(℃) |
| Head Test Data DSI2                         |           |                |            |                |                  |                      |                    |               |                       |                 |
| Left cheek                                  | GPRS 2TS  | 190/836.6      | 1:4.15     | 0.142          | 0.17             | 30.53                | 31.30              | 1.194         | 0.170                 | 22.6            |
| Left tilted                                 | GPRS 2TS  | 190/836.6      | 1:4.15     | 0.077          | 0.12             | 30.53                | 31.30              | 1.194         | 0.092                 | 22.6            |
| Right cheek                                 | GPRS 2TS  | 190/836.6      | 1:4.15     | 0.154          | -0.01            | 30.53                | 31.30              | 1.194         | 0.184                 | 22.6            |
| Right tilted                                | GPRS 2TS  | 190/836.6      | 1:4.15     | 0.076          | 0.09             | 30.53                | 31.30              | 1.194         | 0.090                 | 22.6            |
| Body worn Test data(Separate 15mm) DSI 4/7  |           |                |            |                |                  |                      |                    |               |                       |                 |
| Front side                                  | GSM       | 190/836.6      | 1:8.3      | 0.155          | -0.06            | 32.92                | 33.70              | 1.197         | 0.185                 | 22.6            |
| Back side                                   | GSM       | 190/836.6      | 1:8.3      | 0.184          | -0.07            | 32.92                | 33.70              | 1.197         | <b>0.220</b>          | 22.6            |
| Hotspot Test data(Separate 10mm) DSI 6      |           |                |            |                |                  |                      |                    |               |                       |                 |
| Front side                                  | GPRS 2TS  | 190/836.6      | 1:4.15     | 0.221          | -0.04            | 30.53                | 31.30              | 1.194         | 0.264                 | 22.6            |
| Back side                                   | GPRS 2TS  | 190/836.6      | 1:4.15     | 0.323          | -0.09            | 30.53                | 31.30              | 1.194         | 0.386                 | 22.6            |
| Left side                                   | GPRS 2TS  | 190/836.6      | 1:4.15     | 0.139          | -0.11            | 30.53                | 31.30              | 1.194         | 0.166                 | 22.6            |
| Bottom side                                 | GPRS 2TS  | 190/836.6      | 1:4.15     | 0.156          | -0.04            | 30.53                | 31.30              | 1.194         | 0.186                 | 22.6            |

Table 11: SAR of GSM850 for Head and Body.



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## 8.2.2 SAR Result of GSM1900

| Ant 15 Test Record                         |           |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------|-----------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                              | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Body worn Test data(Separate 15mm) DSI 4/7 |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | GSM       | 661/1880       | 1:8.3      | 0.109          | -0.05            | 30.25                | 31.00              | 1.189         | 0.130                 | 21.9             |
| Back side                                  | GSM       | 661/1880       | 1:8.3      | 0.152          | 0.02             | 30.25                | 31.00              | 1.189         | 0.181                 | 21.9             |
| Hotspot Test data(Separate 10mm) DSI 6     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | GPRS 2TS  | 661/1880       | 1:4.15     | 0.248          | -0.06            | 27.27                | 28.00              | 1.183         | 0.293                 | 21.9             |
| Back side                                  | GPRS 2TS  | 661/1880       | 1:4.15     | 0.334          | -0.07            | 27.27                | 28.00              | 1.183         | 0.395                 | 21.9             |
| Left side                                  | GPRS 2TS  | 661/1880       | 1:4.15     | 0.135          | -0.09            | 27.27                | 28.00              | 1.183         | 0.160                 | 21.9             |
| Top side                                   | GPRS 2TS  | 661/1880       | 1:4.15     | 0.436          | 0.01             | 27.27                | 28.00              | 1.183         | <b>0.516</b>          | 21.9             |
| Ant 31 Test Record                         |           |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                              | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data DSI 2                       |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                 | GPRS 2TS  | 661/1880       | 1:4.15     | 0.077          | 0.01             | 27.59                | 28.50              | 1.233         | <b>0.095</b>          | 21.9             |
| Left tilted                                | GPRS 2TS  | 661/1880       | 1:4.15     | 0.032          | 0.18             | 27.59                | 28.50              | 1.233         | 0.039                 | 21.9             |
| Right cheek                                | GPRS 2TS  | 661/1880       | 1:4.15     | 0.050          | 0.03             | 27.59                | 28.50              | 1.233         | 0.062                 | 21.9             |
| Right tilted                               | GPRS 2TS  | 661/1880       | 1:4.15     | 0.024          | 0.05             | 27.59                | 28.50              | 1.233         | 0.030                 | 21.9             |
| Body worn Test data(Separate 15mm) DSI 4/7 |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | GSM       | 661/1880       | 1:8.3      | 0.241          | -0.14            | 30.62                | 31.00              | 1.091         | 0.263                 | 21.9             |
| Back side                                  | GSM       | 661/1880       | 1:8.3      | 0.300          | -0.06            | 30.62                | 31.00              | 1.091         | <b>0.327</b>          | 21.9             |
| Hotspot Test data(Separate 10mm) DSI 6     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | GPRS 4TS  | 661/1880       | 1:2.075    | 0.263          | 0.05             | 22.61                | 23.50              | 1.227         | 0.323                 | 21.9             |
| Back side                                  | GPRS 4TS  | 661/1880       | 1:2.075    | 0.353          | -0.11            | 22.61                | 23.50              | 1.227         | 0.433                 | 21.9             |
| Right side                                 | GPRS 4TS  | 661/1880       | 1:2.075    | 0.063          | -0.01            | 22.61                | 23.50              | 1.227         | 0.077                 | 21.9             |
| Bottom side                                | GPRS 4TS  | 661/1880       | 1:2.075    | 0.233          | -0.06            | 22.61                | 23.50              | 1.227         | 0.286                 | 21.9             |

Table 12: SAR of GSM1900 for Head and Body.



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## 8.2.3 SAR Result of WCDMA Band II

| Ant 15 Test Record                         |           |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------|-----------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                              | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Body worn Test data(Separate 15mm) DSI 4/7 |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | RMC       | 9400/1880      | 1:1        | 0.132          | 0.06             | 21.64                | 22.80              | 1.306         | 0.172                 | 22.3             |
| Back side                                  | RMC       | 9400/1880      | 1:1        | 0.176          | 0.18             | 21.64                | 22.80              | 1.306         | 0.230                 | 22.3             |
| Hotspot Test data(Separate 10mm) DSI 6     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | RMC       | 9400/1880      | 1:1        | 0.188          | 0.08             | 20.16                | 21.30              | 1.300         | 0.244                 | 22.3             |
| Back side                                  | RMC       | 9400/1880      | 1:1        | 0.250          | 0.15             | 20.16                | 21.30              | 1.300         | 0.325                 | 22.3             |
| Left side                                  | RMC       | 9400/1880      | 1:1        | 0.083          | -0.01            | 20.16                | 21.30              | 1.300         | 0.107                 | 22.3             |
| Top side                                   | RMC       | 9400/1880      | 1:1        | 0.336          | -0.08            | 20.16                | 21.30              | 1.300         | <b>0.437</b>          | 22.3             |
| Ant 31 Test Record                         |           |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                              | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data DSI 2                       |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                 | RMC       | 9400/1880      | 1:1        | 0.163          | -0.03            | 23.05                | 24.00              | 1.245         | <b>0.203</b>          | 22.3             |
| Left tilted                                | RMC       | 9400/1880      | 1:1        | 0.088          | 0.02             | 23.05                | 24.00              | 1.245         | 0.110                 | 22.3             |
| Right cheek                                | RMC       | 9400/1880      | 1:1        | 0.110          | 0.07             | 23.05                | 24.00              | 1.245         | 0.137                 | 22.3             |
| Right tilted                               | RMC       | 9400/1880      | 1:1        | 0.136          | 0.19             | 23.05                | 24.00              | 1.245         | 0.169                 | 22.3             |
| Body worn Test data(Separate 15mm) DSI 4/7 |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | RMC       | 9400/1880      | 1:1        | 0.164          | -0.08            | 20.56                | 21.50              | 1.242         | 0.204                 | 22.3             |
| Back side                                  | RMC       | 9400/1880      | 1:1        | 0.216          | 0.00             | 20.56                | 21.50              | 1.242         | <b>0.268</b>          | 22.3             |
| Hotspot Test data(Separate 10mm) DSI 6     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | RMC       | 9400/1880      | 1:1        | 0.241          | 0.04             | 19.03                | 20.00              | 1.250         | 0.301                 | 22.3             |
| Back side                                  | RMC       | 9400/1880      | 1:1        | 0.296          | -0.14            | 19.03                | 20.00              | 1.250         | 0.370                 | 22.3             |
| Right side                                 | RMC       | 9400/1880      | 1:1        | 0.080          | -0.03            | 19.03                | 20.00              | 1.250         | 0.100                 | 22.3             |
| Bottom side                                | RMC       | 9400/1880      | 1:1        | 0.318          | -0.18            | 19.03                | 20.00              | 1.250         | 0.398                 | 22.3             |

Table 13: SAR of WCDMA Band II for Head and Body.



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## 8.2.4 SAR Result of WCDMA Band IV

| Ant 15 Test Record                         |           |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------|-----------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                              | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Body worn Test data(Separate 15mm) DSI 4/7 |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | RMC       | 1412/1732.4    | 1:1        | 0.176          | -0.07            | 21.03                | 22.00              | 1.250         | 0.220                 | 22.2             |
| Back side                                  | RMC       | 1412/1732.4    | 1:1        | 0.249          | 0.01             | 21.03                | 22.00              | 1.250         | 0.311                 | 22.2             |
| Hotspot Test data(Separate 10mm) DSI 6     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | RMC       | 1412/1732.4    | 1:1        | 0.230          | -0.02            | 19.03                | 20.00              | 1.250         | 0.288                 | 22.2             |
| Back side                                  | RMC       | 1412/1732.4    | 1:1        | 0.309          | 0.08             | 19.03                | 20.00              | 1.250         | 0.386                 | 22.2             |
| Left side                                  | RMC       | 1412/1732.4    | 1:1        | 0.099          | -0.06            | 19.03                | 20.00              | 1.250         | 0.123                 | 22.2             |
| Top side                                   | RMC       | 1412/1732.4    | 1:1        | 0.349          | -0.14            | 19.03                | 20.00              | 1.250         | <b>0.436</b>          | 22.2             |
| Ant 31 Test Record                         |           |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                              | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data DSI 2                       |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                 | RMC       | 1412/1732.4    | 1:1        | 0.195          | 0.03             | 24.25                | 25.00              | 1.189         | <b>0.232</b>          | 22.2             |
| Left tilted                                | RMC       | 1412/1732.4    | 1:1        | 0.046          | 0.06             | 24.25                | 25.00              | 1.189         | 0.055                 | 22.2             |
| Right cheek                                | RMC       | 1412/1732.4    | 1:1        | 0.120          | 0.02             | 24.25                | 25.00              | 1.189         | 0.143                 | 22.2             |
| Right tilted                               | RMC       | 1412/1732.4    | 1:1        | 0.097          | 0.03             | 24.25                | 25.00              | 1.189         | 0.115                 | 22.2             |
| Body worn Test data(Separate 15mm) DSI 4/7 |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | RMC       | 1412/1732.4    | 1:1        | 0.301          | 0.08             | 22.26                | 23.00              | 1.186         | 0.357                 | 22.2             |
| Back side                                  | RMC       | 1412/1732.4    | 1:1        | 0.357          | -0.06            | 22.26                | 23.00              | 1.186         | <b>0.423</b>          | 22.2             |
| Hotspot Test data(Separate 10mm) DSI 6     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | RMC       | 1412/1732.4    | 1:1        | 0.211          | 0.15             | 18.72                | 19.50              | 1.197         | 0.253                 | 22.2             |
| Back side                                  | RMC       | 1412/1732.4    | 1:1        | 0.294          | 0.04             | 18.72                | 19.50              | 1.197         | 0.352                 | 22.2             |
| Right side                                 | RMC       | 1412/1732.4    | 1:1        | 0.073          | 0.04             | 18.72                | 19.50              | 1.197         | 0.087                 | 22.2             |
| Bottom side                                | RMC       | 1412/1732.4    | 1:1        | 0.361          | -0.17            | 18.72                | 19.50              | 1.197         | 0.432                 | 22.2             |

Table 14: SAR of WCDMA Band IV for Head and Body.



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### 8.2.5 SAR Result of WCDMA Band V

| Ant 11 Test Record                         |           |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------|-----------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                              | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data DSI 2                       |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                 | RMC       | 4182/836.4     | 1:1        | 0.489          | 0.05             | 23.24                | 24.80              | 1.432         | <b>0.700</b>          | 22.7             |
| Left tilted                                | RMC       | 4182/836.4     | 1:1        | 0.063          | 0.11             | 23.24                | 24.80              | 1.432         | 0.090                 | 22.7             |
| Right cheek                                | RMC       | 4182/836.4     | 1:1        | 0.213          | 0.15             | 23.24                | 24.80              | 1.432         | 0.305                 | 22.7             |
| Right tilted                               | RMC       | 4182/836.4     | 1:1        | 0.049          | 0.19             | 23.24                | 24.80              | 1.432         | 0.070                 | 22.7             |
| Body worn Test data(Separate 15mm) DSI 4/7 |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | RMC       | 4182/836.4     | 1:1        | 0.155          | 0.11             | 23.78                | 25.30              | 1.419         | 0.220                 | 22.7             |
| Back side                                  | RMC       | 4182/836.4     | 1:1        | 0.231          | -0.12            | 23.78                | 25.30              | 1.419         | <b>0.328</b>          | 22.7             |
| Hotspot Test data(Separate 10mm) DSI 6     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | RMC       | 4182/836.4     | 1:1        | 0.234          | 0.19             | 23.24                | 24.80              | 1.432         | 0.335                 | 22.7             |
| Back side                                  | RMC       | 4182/836.4     | 1:1        | 0.366          | -0.16            | 23.24                | 24.80              | 1.432         | 0.524                 | 22.7             |
| Left side                                  | RMC       | 4182/836.4     | 1:1        | 0.534          | -0.01            | 23.24                | 24.80              | 1.432         | <b>0.765</b>          | 22.7             |
| Ant 41 Test Record                         |           |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                              | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data DSI 2                       |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                 | RMC       | 4182/836.4     | 1:1        | 0.165          | -0.01            | 23.83                | 25.00              | 1.309         | 0.216                 | 22.7             |
| Left tilted                                | RMC       | 4182/836.4     | 1:1        | 0.090          | -0.05            | 23.83                | 25.00              | 1.309         | 0.117                 | 22.7             |
| Right cheek                                | RMC       | 4182/836.4     | 1:1        | 0.179          | 0.05             | 23.83                | 25.00              | 1.309         | 0.234                 | 22.7             |
| Right tilted                               | RMC       | 4182/836.4     | 1:1        | 0.081          | 0.18             | 23.83                | 25.00              | 1.309         | 0.106                 | 22.7             |
| Body worn Test data(Separate 15mm) DSI 4/7 |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | RMC       | 4182/836.4     | 1:1        | 0.158          | -0.06            | 23.83                | 25.00              | 1.309         | 0.207                 | 22.7             |
| Back side                                  | RMC       | 4182/836.4     | 1:1        | 0.231          | -0.01            | 23.83                | 25.00              | 1.309         | 0.302                 | 22.7             |
| Hotspot Test data(Separate 10mm) DSI 6     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | RMC       | 4182/836.4     | 1:1        | 0.142          | -0.04            | 23.33                | 24.50              | 1.309         | 0.186                 | 22.7             |
| Back side                                  | RMC       | 4182/836.4     | 1:1        | 0.382          | 0.02             | 23.33                | 24.50              | 1.309         | 0.500                 | 22.7             |
| Left side                                  | RMC       | 4182/836.4     | 1:1        | 0.158          | -0.02            | 23.33                | 24.50              | 1.309         | 0.207                 | 22.7             |
| Bottom side                                | RMC       | 4182/836.4     | 1:1        | 0.202          | -0.02            | 23.33                | 24.50              | 1.309         | 0.264                 | 22.7             |

Table 15: SAR of WCDMA Band V for Head and Body.



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## 8.2.6 SAR Result of CDMA BC0

| Ant 11 Test Record                         |                     |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------|---------------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                              | Test mode           | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data DSI 2                       |                     |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                 | CDMA RC3+SO55       | 384/836.52     | 1:1        | 0.462          | -0.06            | 23.03                | 24.20              | 1.309         | <b>0.605</b>          | 22.5             |
| Left tilted                                | CDMA RC3+SO55       | 384/836.52     | 1:1        | 0.056          | 0.01             | 23.03                | 24.20              | 1.309         | 0.073                 | 22.5             |
| Right cheek                                | CDMA RC3+SO55       | 384/836.52     | 1:1        | 0.193          | 0.04             | 23.03                | 24.20              | 1.309         | 0.253                 | 22.5             |
| Right tilted                               | CDMA RC3+SO55       | 384/836.52     | 1:1        | 0.054          | -0.05            | 23.03                | 24.20              | 1.309         | 0.070                 | 22.5             |
| Body worn Test data(Separate 15mm) DSI 4/7 |                     |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | CDMA RC3+SO32       | 384/836.52     | 1:1        | 0.136          | -0.04            | 23.58                | 24.70              | 1.294         | 0.176                 | 22.5             |
| Back side                                  | CDMA RC3+SO32       | 384/836.52     | 1:1        | 0.198          | -0.02            | 23.58                | 24.70              | 1.294         | <b>0.256</b>          | 22.5             |
| Hotspot Test data(Separate 10mm) DSI 6     |                     |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | CDMA RC3+SO32       | 384/836.52     | 1:1        | 0.201          | 0.06             | 23.00                | 24.20              | 1.318         | 0.265                 | 22.5             |
| Back side                                  | CDMA RC3+SO32       | 384/836.52     | 1:1        | 0.308          | -0.06            | 23.00                | 24.20              | 1.318         | 0.406                 | 22.5             |
| Left side                                  | CDMA RC3+SO32       | 384/836.52     | 1:1        | 0.424          | -0.04            | 23.00                | 24.20              | 1.318         | 0.559                 | 22.5             |
| Left side                                  | EVDO RTAP 153.6Kbps | 384/836.52     | 1:1        | 0.478          | -0.09            | 22.98                | 24.20              | 1.324         | 0.633                 | 22.5             |
| Left side                                  | EVDO RETAP 4096Bits | 384/836.52     | 1:1        | 0.492          | -0.19            | 23.00                | 24.20              | 1.318         | <b>0.649</b>          | 22.5             |
| Ant 41 Test Record                         |                     |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                              | Test mode           | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data DSI 2                       |                     |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                 | CDMA RC3+SO55       | 384/836.52     | 1:1        | 0.141          | -0.14            | 23.55                | 24.50              | 1.245         | 0.175                 | 22.5             |
| Left tilted                                | CDMA RC3+SO55       | 384/836.52     | 1:1        | 0.071          | 0.05             | 23.55                | 24.50              | 1.245         | 0.089                 | 22.5             |
| Right cheek                                | CDMA RC3+SO55       | 384/836.52     | 1:1        | 0.146          | 0.09             | 23.55                | 24.50              | 1.245         | 0.182                 | 22.5             |
| Right tilted                               | CDMA RC3+SO55       | 384/836.52     | 1:1        | 0.067          | 0.19             | 23.55                | 24.50              | 1.245         | 0.083                 | 22.5             |
| Body worn Test data(Separate 15mm) DSI 4/7 |                     |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | CDMA RC3+SO32       | 384/836.52     | 1:1        | 0.137          | -0.04            | 23.61                | 24.50              | 1.227         | 0.168                 | 22.5             |
| Back side                                  | CDMA RC3+SO32       | 384/836.52     | 1:1        | 0.192          | 0.08             | 23.61                | 24.50              | 1.227         | 0.236                 | 22.5             |
| Hotspot Test data(Separate 10mm) DSI 6     |                     |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                 | CDMA RC3+SO32       | 384/836.52     | 1:1        | 0.197          | -0.07            | 23.11                | 24.00              | 1.227         | 0.242                 | 22.5             |
| Back side                                  | CDMA RC3+SO32       | 384/836.52     | 1:1        | 0.336          | 0.02             | 23.11                | 24.00              | 1.227         | 0.412                 | 22.5             |
| Left side                                  | CDMA RC3+SO32       | 384/836.52     | 1:1        | 0.104          | -0.09            | 23.11                | 24.00              | 1.227         | 0.128                 | 22.5             |
| Bottom side                                | CDMA RC3+SO32       | 384/836.52     | 1:1        | 0.179          | -0.17            | 23.11                | 24.00              | 1.227         | 0.220                 | 22.5             |
| Back side                                  | EVDO RTAP 153.6Kbps | 384/836.52     | 1:1        | 0.322          | -0.05            | 22.99                | 24.00              | 1.262         | 0.406                 | 22.5             |
| Back side                                  | EVDO RETAP 4096Bits | 384/836.52     | 1:1        | 0.321          | 0.10             | 23.02                | 24.00              | 1.253         | 0.402                 | 22.5             |

Table 16: SAR of CDMA BC0 for Head and Body.



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## 8.2.7 SAR Result of LTE Band 2

| Ant 15 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------------|-----|------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1_50  | 19100/1900     | 1:1        | 0.165          | 0.06             | 22.32                | 23.30              | 1.253         | 0.207                 | 22.3             |
| Back side                                        | 20  | QPSK 1_50  | 19100/1900     | 1:1        | 0.195          | 0.06             | 22.32                | 23.30              | 1.253         | 0.244                 | 22.3             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50_25 | 19100/1900     | 1:1        | 0.151          | 0.03             | 21.91                | 22.80              | 1.227         | 0.185                 | 22.3             |
| Back side                                        | 20  | QPSK 50_25 | 19100/1900     | 1:1        | 0.178          | 0.10             | 21.91                | 22.80              | 1.227         | 0.218                 | 22.3             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1_0   | 18700/1860     | 1:1        | 0.170          | 0.11             | 20.27                | 21.30              | 1.268         | 0.216                 | 22.3             |
| Back side                                        | 20  | QPSK 1_0   | 18700/1860     | 1:1        | 0.219          | 0.05             | 20.27                | 21.30              | 1.268         | 0.278                 | 22.3             |
| Left side                                        | 20  | QPSK 1_0   | 18700/1860     | 1:1        | 0.057          | 0.04             | 20.27                | 21.30              | 1.268         | 0.073                 | 22.3             |
| Top side                                         | 20  | QPSK 1_0   | 18700/1860     | 1:1        | 0.329          | 0.19             | 20.27                | 21.30              | 1.268         | 0.417                 | 22.3             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50_50 | 19100/1900     | 1:1        | 0.196          | 0.16             | 20.30                | 21.30              | 1.259         | 0.247                 | 22.3             |
| Back side                                        | 20  | QPSK 50_50 | 19100/1900     | 1:1        | 0.222          | -0.01            | 20.30                | 21.30              | 1.259         | 0.279                 | 22.3             |
| Left side                                        | 20  | QPSK 50_50 | 19100/1900     | 1:1        | 0.087          | -0.03            | 20.30                | 21.30              | 1.259         | 0.110                 | 22.3             |
| Top side                                         | 20  | QPSK 50_50 | 19100/1900     | 1:1        | 0.314          | 0.16             | 20.30                | 21.30              | 1.259         | 0.395                 | 22.3             |
| Ant 31 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 20  | QPSK 1_0   | 18900/1880     | 1:1        | 0.129          | 0.04             | 23.15                | 24.00              | 1.216         | 0.157                 | 22.3             |
| Left tilted                                      | 20  | QPSK 1_0   | 18900/1880     | 1:1        | 0.051          | 0.07             | 23.15                | 24.00              | 1.216         | 0.063                 | 22.3             |
| Right cheek                                      | 20  | QPSK 1_0   | 18900/1880     | 1:1        | 0.070          | 0.01             | 23.15                | 24.00              | 1.216         | 0.085                 | 22.3             |
| Right tilted                                     | 20  | QPSK 1_0   | 18900/1880     | 1:1        | 0.081          | -0.06            | 23.15                | 24.00              | 1.216         | 0.098                 | 22.3             |
| Head Test Data(50%RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 20  | QPSK 50_25 | 18700/1860     | 1:1        | 0.098          | -0.02            | 22.29                | 23.00              | 1.178         | 0.115                 | 22.3             |
| Left tilted                                      | 20  | QPSK 50_25 | 18700/1860     | 1:1        | 0.038          | 0.01             | 22.29                | 23.00              | 1.178         | 0.045                 | 22.3             |
| Right cheek                                      | 20  | QPSK 50_25 | 18700/1860     | 1:1        | 0.059          | -0.04            | 22.29                | 23.00              | 1.178         | 0.069                 | 22.3             |
| Right tilted                                     | 20  | QPSK 50_25 | 18700/1860     | 1:1        | 0.056          | 0.08             | 22.29                | 23.00              | 1.178         | 0.066                 | 22.3             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1_0   | 18700/1860     | 1:1        | 0.208          | -0.05            | 21.33                | 22.00              | 1.167         | 0.243                 | 22.3             |
| Back side                                        | 20  | QPSK 1_0   | 18700/1860     | 1:1        | 0.216          | -0.02            | 21.33                | 22.00              | 1.167         | 0.252                 | 22.3             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50_0  | 18700/1860     | 1:1        | 0.159          | 0.04             | 21.27                | 22.00              | 1.183         | 0.188                 | 22.3             |
| Back side                                        | 20  | QPSK 50_0  | 18700/1860     | 1:1        | 0.221          | -0.19            | 21.27                | 22.00              | 1.183         | 0.261                 | 22.3             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1_0   | 18900/1880     | 1:1        | 0.196          | 0.02             | 19.80                | 20.50              | 1.175         | 0.230                 | 22.3             |
| Back side                                        | 20  | QPSK 1_0   | 18900/1880     | 1:1        | 0.292          | -0.09            | 19.80                | 20.50              | 1.175         | 0.343                 | 22.3             |
| Right side                                       | 20  | QPSK 1_0   | 18900/1880     | 1:1        | 0.068          | -0.06            | 19.80                | 20.50              | 1.175         | 0.080                 | 22.3             |
| Bottom side                                      | 20  | QPSK 1_0   | 18900/1880     | 1:1        | 0.354          | -0.04            | 19.80                | 20.50              | 1.175         | 0.416                 | 22.3             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50_0  | 18700/1860     | 1:1        | 0.198          | 0.02             | 19.79                | 20.50              | 1.178         | 0.233                 | 22.3             |
| Back side                                        | 20  | QPSK 50_0  | 18700/1860     | 1:1        | 0.300          | -0.09            | 19.79                | 20.50              | 1.178         | 0.353                 | 22.3             |
| Right side                                       | 20  | QPSK 50_0  | 18700/1860     | 1:1        | 0.073          | 0.06             | 19.79                | 20.50              | 1.178         | 0.086                 | 22.3             |
| Bottom side                                      | 20  | QPSK 50_0  | 18700/1860     | 1:1        | 0.361          | -0.14            | 19.79                | 20.50              | 1.178         | 0.425                 | 22.3             |

Table 17: SAR of LTE Band 2 for Head and Body.



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## 8.2.8 SAR Result of LTE Band 4

| Ant 15 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------------|-----|------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1_0   | 20175/1732.5   | 1:1        | 0.214          | 0.00             | 21.71                | 22.30              | 1.146         | 0.245                 | 22.2             |
| Back side                                        | 20  | QPSK 1_0   | 20175/1732.5   | 1:1        | 0.315          | 0.08             | 21.71                | 22.30              | 1.146         | 0.361                 | 22.2             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50_25 | 20050/1720     | 1:1        | 0.215          | -0.07            | 21.71                | 22.30              | 1.146         | 0.246                 | 22.2             |
| Back side                                        | 20  | QPSK 50_25 | 20050/1720     | 1:1        | 0.322          | 0.09             | 21.71                | 22.30              | 1.146         | 0.369                 | 22.2             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1_0   | 20175/1732.5   | 1:1        | 0.275          | 0.12             | 20.15                | 20.80              | 1.161         | 0.319                 | 22.2             |
| Back side                                        | 20  | QPSK 1_0   | 20175/1732.5   | 1:1        | 0.377          | 0.11             | 20.15                | 20.80              | 1.161         | 0.438                 | 22.2             |
| Left side                                        | 20  | QPSK 1_0   | 20175/1732.5   | 1:1        | 0.096          | 0.02             | 20.15                | 20.80              | 1.161         | 0.111                 | 22.2             |
| Top side                                         | 20  | QPSK 1_0   | 20175/1732.5   | 1:1        | 0.484          | 0.09             | 20.15                | 20.80              | 1.161         | 0.562                 | 22.2             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50_50 | 20175/1732.5   | 1:1        | 0.280          | 0.12             | 20.16                | 20.80              | 1.159         | 0.324                 | 22.2             |
| Back side                                        | 20  | QPSK 50_50 | 20175/1732.5   | 1:1        | 0.421          | 0.12             | 20.16                | 20.80              | 1.159         | 0.488                 | 22.2             |
| Left side                                        | 20  | QPSK 50_50 | 20175/1732.5   | 1:1        | 0.092          | -0.02            | 20.16                | 20.80              | 1.159         | 0.106                 | 22.2             |
| Top side                                         | 20  | QPSK 50_50 | 20175/1732.5   | 1:1        | 0.486          | 0.11             | 20.16                | 20.80              | 1.159         | 0.563                 | 22.2             |
| Ant 31 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 20  | QPSK 1_0   | 20050/1720     | 1:1        | 0.131          | 0.14             | 23.93                | 24.50              | 1.140         | 0.149                 | 22.2             |
| Left tilted                                      | 20  | QPSK 1_0   | 20050/1720     | 1:1        | 0.040          | 0.05             | 23.93                | 24.50              | 1.140         | 0.046                 | 22.2             |
| Right cheek                                      | 20  | QPSK 1_0   | 20050/1720     | 1:1        | 0.075          | 0.10             | 23.93                | 24.50              | 1.140         | 0.085                 | 22.2             |
| Right tilted                                     | 20  | QPSK 1_0   | 20050/1720     | 1:1        | 0.045          | 0.04             | 23.93                | 24.50              | 1.140         | 0.052                 | 22.2             |
| Head Test Data(50%RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 20  | QPSK 50_50 | 20050/1720     | 1:1        | 0.103          | 0.03             | 22.98                | 23.50              | 1.127         | 0.116                 | 22.2             |
| Left tilted                                      | 20  | QPSK 50_50 | 20050/1720     | 1:1        | 0.033          | 0.08             | 22.98                | 23.50              | 1.127         | 0.037                 | 22.2             |
| Right cheek                                      | 20  | QPSK 50_50 | 20050/1720     | 1:1        | 0.064          | 0.02             | 22.98                | 23.50              | 1.127         | 0.072                 | 22.2             |
| Right tilted                                     | 20  | QPSK 50_50 | 20050/1720     | 1:1        | 0.038          | 0.04             | 22.98                | 23.50              | 1.127         | 0.042                 | 22.2             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1_0   | 20300/1745     | 1:1        | 0.304          | 0.09             | 22.93                | 23.50              | 1.140         | 0.347                 | 22.2             |
| Back side                                        | 20  | QPSK 1_0   | 20300/1745     | 1:1        | 0.389          | -0.03            | 22.93                | 23.50              | 1.140         | 0.444                 | 22.2             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50_50 | 20050/1720     | 1:1        | 0.325          | -0.07            | 22.97                | 23.50              | 1.130         | 0.367                 | 22.2             |
| Back side                                        | 20  | QPSK 50_50 | 20050/1720     | 1:1        | 0.405          | -0.06            | 22.97                | 23.50              | 1.130         | 0.458                 | 22.2             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1_0   | 20175/1732.5   | 1:1        | 0.245          | 0.04             | 19.44                | 20.00              | 1.138         | 0.279                 | 22.2             |
| Back side                                        | 20  | QPSK 1_0   | 20175/1732.5   | 1:1        | 0.331          | -0.09            | 19.44                | 20.00              | 1.138         | 0.377                 | 22.2             |
| Right side                                       | 20  | QPSK 1_0   | 20175/1732.5   | 1:1        | 0.062          | 0.19             | 19.44                | 20.00              | 1.138         | 0.070                 | 22.2             |
| Bottom side                                      | 20  | QPSK 1_0   | 20175/1732.5   | 1:1        | 0.402          | -0.14            | 19.44                | 20.00              | 1.138         | 0.457                 | 22.2             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50_25 | 20300/1745     | 1:1        | 0.233          | -0.04            | 19.43                | 20.00              | 1.140         | 0.266                 | 22.2             |
| Back side                                        | 20  | QPSK 50_25 | 20300/1745     | 1:1        | 0.328          | 0.08             | 19.43                | 20.00              | 1.140         | 0.374                 | 22.2             |
| Right side                                       | 20  | QPSK 50_25 | 20300/1745     | 1:1        | 0.058          | 0.10             | 19.43                | 20.00              | 1.140         | 0.066                 | 22.2             |
| Bottom side                                      | 20  | QPSK 50_25 | 20300/1745     | 1:1        | 0.400          | -0.13            | 19.43                | 20.00              | 1.140         | 0.456                 | 22.2             |



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| Inter-band CA LTE Band4 SAR Test Record        |     |            |                |            |                |                  |                      |                    |               |                       |                 |
|------------------------------------------------|-----|------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|-----------------|
| Ant 12 Test Record                             |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Test position                                  | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(℃) |
| Head Test Data(1RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Left cheek                                     | 20  | QPSK 1_0   | 20300/1745     | 1:1        | 0.057          | -0.05            | 20.04                | 21.50              | 1.400         | 0.079                 | 22.1            |
| Left tilted                                    | 20  | QPSK 1_0   | 20300/1745     | 1:1        | 0.031          | -0.08            | 20.04                | 21.50              | 1.400         | 0.043                 | 22.1            |
| Right cheek                                    | 20  | QPSK 1_0   | 20300/1745     | 1:1        | 0.256          | 0.01             | 20.04                | 21.50              | 1.400         | <b>0.358</b>          | 22.1            |
| Right tilted                                   | 20  | QPSK 1_0   | 20300/1745     | 1:1        | 0.069          | 0.09             | 20.04                | 21.50              | 1.400         | 0.097                 | 22.1            |
| Head Test Data(50%RB) DSI 2                    |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Left cheek                                     | 20  | QPSK 50_25 | 20300/1745     | 1:1        | 0.058          | 0.02             | 19.10                | 20.50              | 1.380         | 0.079                 | 22.1            |
| Left tilted                                    | 20  | QPSK 50_25 | 20300/1745     | 1:1        | 0.031          | 0.06             | 19.10                | 20.50              | 1.380         | 0.042                 | 22.1            |
| Right cheek                                    | 20  | QPSK 50_25 | 20300/1745     | 1:1        | 0.226          | 0.03             | 19.10                | 20.50              | 1.380         | 0.312                 | 22.1            |
| Right tilted                                   | 20  | QPSK 50_25 | 20300/1745     | 1:1        | 0.069          | 0.09             | 19.10                | 20.50              | 1.380         | 0.095                 | 22.1            |
| Body worn Test data(Separate 15mm 1RB) DSI 7   |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Front side                                     | 20  | QPSK 1_0   | 20300/1745     | 1:1        | 0.018          | 0.12             | 20.04                | 21.50              | 1.400         | 0.025                 | 22.1            |
| Back side                                      | 20  | QPSK 1_0   | 20300/1745     | 1:1        | 0.038          | 0.01             | 20.04                | 21.50              | 1.400         | 0.054                 | 22.1            |
| Body worn Test data(Separate 15mm 50%RB) DSI 7 |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Front side                                     | 20  | QPSK 50_25 | 20300/1745     | 1:1        | 0.017          | -0.10            | 19.10                | 20.50              | 1.380         | 0.023                 | 22.1            |
| Back side                                      | 20  | QPSK 50_25 | 20300/1745     | 1:1        | 0.033          | -0.06            | 19.10                | 20.50              | 1.380         | 0.046                 | 22.1            |
| Hotspot Test data(Separate 10mm 1RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Front side                                     | 20  | QPSK 1_0   | 20300/1745     | 1:1        | 0.037          | 0.05             | 20.04                | 21.50              | 1.400         | 0.052                 | 22.1            |
| Back side                                      | 20  | QPSK 1_0   | 20300/1745     | 1:1        | 0.095          | 0.03             | 20.04                | 21.50              | 1.400         | 0.134                 | 22.1            |
| Left side                                      | 20  | QPSK 1_0   | 20300/1745     | 1:1        | 0.103          | -0.08            | 20.04                | 21.50              | 1.400         | 0.144                 | 22.1            |
| Top side                                       | 20  | QPSK 1_0   | 20300/1745     | 1:1        | 0.013          | 0.05             | 20.04                | 21.50              | 1.400         | 0.018                 | 22.1            |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6   |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Front side                                     | 20  | QPSK 50_25 | 20300/1745     | 1:1        | 0.032          | -0.07            | 19.10                | 20.50              | 1.380         | 0.043                 | 22.1            |
| Back side                                      | 20  | QPSK 50_25 | 20300/1745     | 1:1        | 0.077          | 0.01             | 19.10                | 20.50              | 1.380         | 0.106                 | 22.1            |
| Left side                                      | 20  | QPSK 50_25 | 20300/1745     | 1:1        | 0.096          | 0.11             | 19.10                | 20.50              | 1.380         | 0.133                 | 22.1            |
| Top side                                       | 20  | QPSK 50_25 | 20300/1745     | 1:1        | 0.013          | -0.05            | 19.10                | 20.50              | 1.380         | 0.018                 | 22.1            |

Table 18: SAR of LTE Band 4 for Head and Body.



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## 8.2.9 SAR Result of LTE Band 4

| Ant 15 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------------|-----|------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1 99  | 21350/2560     | 1:1        | 0.212          | -0.10            | 22.15                | 22.80              | 1.161         | 0.246                 | 22.1             |
| Back side                                        | 20  | QPSK 1 99  | 21350/2560     | 1:1        | 0.218          | -0.06            | 22.15                | 22.80              | 1.161         | 0.253                 | 22.1             |
| Back side                                        | 20  | QPSK 1 0   | 21350/2560     | 1:1        | 0.139          | 0.02             | 21.46                | 22.80              | 1.361         | 0.189                 | 22.1             |
|                                                  |     | QPSK 0 0   | 21152/2540.2   |            |                |                  |                      |                    |               |                       |                  |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50 50 | 21350/2560     | 1:1        | 0.197          | -0.18            | 21.66                | 22.30              | 1.159         | 0.228                 | 22.1             |
| Back side                                        | 20  | QPSK 50 50 | 21350/2560     | 1:1        | 0.202          | 0.08             | 21.66                | 22.30              | 1.159         | 0.234                 | 22.1             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1 99  | 21350/2560     | 1:1        | 0.227          | -0.05            | 20.53                | 21.30              | 1.194         | 0.271                 | 22.1             |
| Back side                                        | 20  | QPSK 1 99  | 21350/2560     | 1:1        | 0.263          | 0.14             | 20.53                | 21.30              | 1.194         | 0.314                 | 22.1             |
| Left side                                        | 20  | QPSK 1 99  | 21350/2560     | 1:1        | 0.135          | 0.08             | 20.53                | 21.30              | 1.194         | 0.161                 | 22.1             |
| Top side                                         | 20  | QPSK 1 99  | 21350/2560     | 1:1        | 0.301          | -0.17            | 20.53                | 21.30              | 1.194         | 0.359                 | 22.1             |
| Top side                                         | 20  | QPSK 1 0   | 21350/2560     | 1:1        | 0.265          | 0.00             | 19.96                | 21.30              | 1.361         | 0.361                 | 22.1             |
|                                                  |     | QPSK 0 0   | 21152/2540.2   |            |                |                  |                      |                    |               |                       |                  |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50 50 | 21350/2560     | 1:1        | 0.220          | -0.01            | 20.64                | 21.30              | 1.164         | 0.256                 | 22.1             |
| Back side                                        | 20  | QPSK 50 50 | 21350/2560     | 1:1        | 0.257          | 0.03             | 20.64                | 21.30              | 1.164         | 0.299                 | 22.1             |
| Left side                                        | 20  | QPSK 50 50 | 21350/2560     | 1:1        | 0.125          | 0.04             | 20.64                | 21.30              | 1.164         | 0.146                 | 22.1             |
| Top side                                         | 20  | QPSK 50 50 | 21350/2560     | 1:1        | 0.289          | -0.04            | 20.64                | 21.30              | 1.164         | 0.336                 | 22.1             |
| Ant 31 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 20  | QPSK 1 99  | 20850/2510     | 1:1        | 0.045          | -0.09            | 23.34                | 24.00              | 1.164         | 0.053                 | 22.1             |
| Left tilted                                      | 20  | QPSK 1 99  | 20850/2510     | 1:1        | 0.055          | -0.08            | 23.34                | 24.00              | 1.164         | 0.064                 | 22.1             |
| Right cheek                                      | 20  | QPSK 1 99  | 20850/2510     | 1:1        | 0.103          | 0.03             | 23.34                | 24.00              | 1.164         | 0.120                 | 22.1             |
| Right tilted                                     | 20  | QPSK 1 99  | 20850/2510     | 1:1        | 0.107          | -0.02            | 23.34                | 24.00              | 1.164         | 0.125                 | 22.1             |
| Right tilted                                     | 20  | QPSK 1 0   | 20850/2510     | 1:1        | 0.098          | -0.03            | 22.84                | 24.00              | 1.306         | 0.128                 | 22.1             |
|                                                  |     | QPSK 0 0   | 21048/2529.8   |            |                |                  |                      |                    |               |                       |                  |
| Head Test Data(50%RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 20  | QPSK 50 25 | 21350/2560     | 1:1        | 0.036          | 0.08             | 22.38                | 23.00              | 1.153         | 0.041                 | 22.1             |
| Left tilted                                      | 20  | QPSK 50 25 | 21350/2560     | 1:1        | 0.040          | -0.02            | 22.38                | 23.00              | 1.153         | 0.046                 | 22.1             |
| Right cheek                                      | 20  | QPSK 50 25 | 21350/2560     | 1:1        | 0.053          | 0.06             | 22.38                | 23.00              | 1.153         | 0.061                 | 22.1             |
| Right tilted                                     | 20  | QPSK 50 25 | 21350/2560     | 1:1        | 0.078          | -0.07            | 22.38                | 23.00              | 1.153         | 0.090                 | 22.1             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1 99  | 21350/2560     | 1:1        | 0.061          | -0.07            | 21.75                | 22.50              | 1.189         | 0.072                 | 22.1             |
| Back side                                        | 20  | QPSK 1 99  | 21350/2560     | 1:1        | 0.114          | 0.00             | 21.75                | 22.50              | 1.189         | 0.135                 | 22.1             |
| Back side                                        | 20  | QPSK 1 0   | 21350/2560     | 1:1        | 0.099          | 0.02             | 21.06                | 22.50              | 1.393         | 0.138                 | 22.1             |
|                                                  |     | QPSK 0 0   | 21152/2540.2   |            |                |                  |                      |                    |               |                       |                  |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50 50 | 21350/2560     | 1:1        | 0.072          | -0.12            | 21.97                | 22.50              | 1.130         | 0.082                 | 22.1             |
| Back side                                        | 20  | QPSK 50 50 | 21350/2560     | 1:1        | 0.116          | 0.00             | 21.97                | 22.50              | 1.130         | 0.131                 | 22.1             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1 99  | 21350/2560     | 1:1        | 0.099          | -0.07            | 20.26                | 21.00              | 1.186         | 0.117                 | 22.1             |
| Back side                                        | 20  | QPSK 1 99  | 21350/2560     | 1:1        | 0.194          | -0.09            | 20.26                | 21.00              | 1.186         | 0.230                 | 22.1             |
| Right side                                       | 20  | QPSK 1 99  | 21350/2560     | 1:1        | 0.050          | -0.02            | 20.26                | 21.00              | 1.186         | 0.059                 | 22.1             |
| Bottom side                                      | 20  | QPSK 1 99  | 21350/2560     | 1:1        | 0.155          | 0.03             | 20.26                | 21.00              | 1.186         | 0.184                 | 22.1             |
| Back side                                        | 20  | QPSK 1 0   | 21350/2560     | 1:1        | 0.200          | 0.19             | 19.51                | 21.00              | 1.409         | 0.282                 | 22.1             |
|                                                  |     | QPSK 0 0   | 21152/2540.2   |            |                |                  |                      |                    |               |                       |                  |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50 50 | 21350/2560     | 1:1        | 0.095          | -0.13            | 20.39                | 21.00              | 1.151         | 0.109                 | 22.1             |
| Back side                                        | 20  | QPSK 50 50 | 21350/2560     | 1:1        | 0.187          | -0.03            | 20.39                | 21.00              | 1.151         | 0.215                 | 22.1             |
| Right side                                       | 20  | QPSK 50 50 | 21350/2560     | 1:1        | 0.050          | -0.01            | 20.39                | 21.00              | 1.151         | 0.057                 | 22.1             |
| Bottom side                                      | 20  | QPSK 50 50 | 21350/2560     | 1:1        | 0.148          | 0.07             | 20.39                | 21.00              | 1.151         | 0.170                 | 22.1             |



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| ENDC LTE Band 7 SAR Test Record                |     |            |                |            |                |                  |                      |                    |               |                       |                  |
|------------------------------------------------|-----|------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Ant 12 Test Record                             |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                  | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                     | 20  | QPSK 1_99  | 20850/2510     | 1:1        | 0.127          | 0.06             | 19.37                | 20.50              | 1.297         | 0.165                 | 22.3             |
| Left tilted                                    | 20  | QPSK 1_99  | 20850/2510     | 1:1        | 0.077          | 0.05             | 19.37                | 20.50              | 1.297         | 0.100                 | 22.3             |
| Right cheek                                    | 20  | QPSK 1_99  | 20850/2510     | 1:1        | 0.398          | 0.02             | 19.37                | 20.50              | 1.297         | <b>0.516</b>          | 22.3             |
| Right tilted                                   | 20  | QPSK 1_99  | 20850/2510     | 1:1        | 0.162          | 0.09             | 19.37                | 20.50              | 1.297         | 0.210                 | 22.3             |
| Head Test Data(50%RB) DSI 2                    |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                     | 20  | QPSK 50_50 | 20850/2510     | 1:1        | 0.127          | 0.13             | 19.43                | 20.50              | 1.279         | 0.162                 | 22.3             |
| Left tilted                                    | 20  | QPSK 50_50 | 20850/2510     | 1:1        | 0.074          | 0.09             | 19.43                | 20.50              | 1.279         | 0.095                 | 22.3             |
| Right cheek                                    | 20  | QPSK 50_50 | 20850/2510     | 1:1        | 0.356          | 0.08             | 19.43                | 20.50              | 1.279         | 0.455                 | 22.3             |
| Right tilted                                   | 20  | QPSK 50_50 | 20850/2510     | 1:1        | 0.147          | 0.02             | 19.43                | 20.50              | 1.279         | 0.188                 | 22.3             |
| Body worn Test data(Separate 15mm 1RB) DSI 7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                     | 20  | QPSK 1_99  | 20850/2510     | 1:1        | 0.094          | -0.06            | 22.92                | 24.00              | 1.282         | 0.121                 | 22.3             |
| Back side                                      | 20  | QPSK 1_99  | 20850/2510     | 1:1        | 0.188          | -0.02            | 22.92                | 24.00              | 1.282         | 0.241                 | 22.3             |
| Body worn Test data(Separate 15mm 50%RB) DSI 7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                     | 20  | QPSK 50_25 | 20850/2510     | 1:1        | 0.070          | -0.06            | 21.97                | 23.00              | 1.268         | 0.088                 | 22.3             |
| Back side                                      | 20  | QPSK 50_25 | 20850/2510     | 1:1        | 0.145          | -0.04            | 21.97                | 23.00              | 1.268         | 0.184                 | 22.3             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                     | 20  | QPSK 1_99  | 21100/2535     | 1:1        | 0.130          | 0.03             | 19.92                | 21.00              | 1.282         | 0.167                 | 22.3             |
| Back side                                      | 20  | QPSK 1_99  | 21100/2535     | 1:1        | 0.295          | 0.08             | 19.92                | 21.00              | 1.282         | <b>0.378</b>          | 22.3             |
| Left side                                      | 20  | QPSK 1_99  | 21100/2535     | 1:1        | 0.272          | -0.03            | 19.92                | 21.00              | 1.282         | 0.349                 | 22.3             |
| Top side                                       | 20  | QPSK 1_99  | 21100/2535     | 1:1        | 0.050          | 0.06             | 19.92                | 21.00              | 1.282         | 0.064                 | 22.3             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                     | 20  | QPSK 50_50 | 20850/2510     | 1:1        | 0.100          | 0.08             | 20.01                | 21.00              | 1.256         | 0.126                 | 22.3             |
| Back side                                      | 20  | QPSK 50_50 | 20850/2510     | 1:1        | 0.226          | -0.04            | 20.01                | 21.00              | 1.256         | 0.284                 | 22.3             |
| Left side                                      | 20  | QPSK 50_50 | 20850/2510     | 1:1        | 0.227          | 0.10             | 20.01                | 21.00              | 1.256         | 0.285                 | 22.3             |
| Top side                                       | 20  | QPSK 50_50 | 20850/2510     | 1:1        | 0.037          | 0.04             | 20.01                | 21.00              | 1.256         | 0.046                 | 22.3             |

Table 19: SAR of LTE Band 7 for Head and Body.



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## 8.2.10 SAR Result of LTE Band 12

| Ant 11 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------------|-----|------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 10  | QPSK 1 0   | 23060/704      | 1:1        | 0.214          | -0.13            | 24.52                | 25.50              | 1.253         | 0.268                 | 22.6             |
| Left tilted                                      | 10  | QPSK 1 0   | 23060/704      | 1:1        | 0.029          | 0.03             | 24.52                | 25.50              | 1.253         | 0.037                 | 22.6             |
| Right cheek                                      | 10  | QPSK 1 0   | 23060/704      | 1:1        | 0.089          | 0.14             | 24.52                | 25.50              | 1.253         | 0.112                 | 22.6             |
| Right tilted                                     | 10  | QPSK 1 0   | 23060/704      | 1:1        | 0.028          | 0.06             | 24.52                | 25.50              | 1.253         | 0.035                 | 22.6             |
| Head Test Data(50%RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 10  | QPSK 25 25 | 23060/704      | 1:1        | 0.166          | 0.09             | 23.47                | 24.50              | 1.268         | 0.210                 | 22.6             |
| Left tilted                                      | 10  | QPSK 25 25 | 23060/704      | 1:1        | 0.026          | 0.04             | 23.47                | 24.50              | 1.268         | 0.033                 | 22.6             |
| Right cheek                                      | 10  | QPSK 25 25 | 23060/704      | 1:1        | 0.087          | 0.01             | 23.47                | 24.50              | 1.268         | 0.110                 | 22.6             |
| Right tilted                                     | 10  | QPSK 25 25 | 23060/704      | 1:1        | 0.025          | 0.06             | 23.47                | 24.50              | 1.268         | 0.031                 | 22.6             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 10  | QPSK 1 0   | 23060/704      | 1:1        | 0.065          | -0.02            | 24.52                | 25.50              | 1.253         | 0.082                 | 22.6             |
| Back side                                        | 10  | QPSK 1 0   | 23060/704      | 1:1        | 0.107          | 0.02             | 24.52                | 25.50              | 1.253         | 0.134                 | 22.6             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 10  | QPSK 25 25 | 23060/704      | 1:1        | 0.062          | 0.01             | 23.47                | 24.50              | 1.268         | 0.078                 | 22.6             |
| Back side                                        | 10  | QPSK 25 25 | 23060/704      | 1:1        | 0.100          | 0.02             | 23.47                | 24.50              | 1.268         | 0.127                 | 22.6             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 10  | QPSK 1 0   | 23060/704      | 1:1        | 0.096          | 0.10             | 24.52                | 25.50              | 1.253         | 0.120                 | 22.6             |
| Back side                                        | 10  | QPSK 1 0   | 23060/704      | 1:1        | 0.187          | 0.06             | 24.52                | 25.50              | 1.253         | 0.234                 | 22.6             |
| Left side                                        | 10  | QPSK 1 0   | 23060/704      | 1:1        | 0.295          | -0.05            | 24.52                | 25.50              | 1.253         | 0.370                 | 22.6             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 10  | QPSK 25 25 | 23060/704      | 1:1        | 0.102          | 0.16             | 23.47                | 24.50              | 1.268         | 0.129                 | 22.6             |
| Back side                                        | 10  | QPSK 25 25 | 23060/704      | 1:1        | 0.173          | -0.18            | 23.47                | 24.50              | 1.268         | 0.219                 | 22.6             |
| Left side                                        | 10  | QPSK 25 25 | 23060/704      | 1:1        | 0.264          | -0.04            | 23.47                | 24.50              | 1.268         | 0.335                 | 22.6             |
| Ant 41 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 10  | QPSK 1 0   | 23095/707.5    | 1:1        | 0.119          | 0.07             | 24.55                | 25.30              | 1.189         | 0.141                 | 22.6             |
| Left tilted                                      | 10  | QPSK 1 0   | 23095/707.5    | 1:1        | 0.053          | 0.09             | 24.55                | 25.30              | 1.189         | 0.063                 | 22.6             |
| Right cheek                                      | 10  | QPSK 1 0   | 23095/707.5    | 1:1        | 0.110          | 0.05             | 24.55                | 25.30              | 1.189         | 0.131                 | 22.6             |
| Right tilted                                     | 10  | QPSK 1 0   | 23095/707.5    | 1:1        | 0.056          | 0.13             | 24.55                | 25.30              | 1.189         | 0.066                 | 22.6             |
| Head Test Data(50%RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 10  | QPSK 25 13 | 23060/704      | 1:1        | 0.096          | 0.06             | 23.54                | 24.30              | 1.191         | 0.115                 | 22.6             |
| Left tilted                                      | 10  | QPSK 25 13 | 23060/704      | 1:1        | 0.044          | 0.18             | 23.54                | 24.30              | 1.191         | 0.052                 | 22.6             |
| Right cheek                                      | 10  | QPSK 25 13 | 23060/704      | 1:1        | 0.089          | 0.05             | 23.54                | 24.30              | 1.191         | 0.106                 | 22.6             |
| Right tilted                                     | 10  | QPSK 25 13 | 23060/704      | 1:1        | 0.046          | 0.02             | 23.54                | 24.30              | 1.191         | 0.055                 | 22.6             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 10  | QPSK 1 0   | 23095/707.5    | 1:1        | 0.151          | -0.03            | 24.55                | 25.30              | 1.189         | 0.179                 | 22.6             |
| Back side                                        | 10  | QPSK 1 0   | 23095/707.5    | 1:1        | 0.139          | 0.01             | 24.55                | 25.30              | 1.189         | 0.165                 | 22.6             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 10  | QPSK 25 13 | 23060/704      | 1:1        | 0.124          | -0.02            | 23.54                | 24.30              | 1.191         | 0.148                 | 22.6             |
| Back side                                        | 10  | QPSK 25 13 | 23060/704      | 1:1        | 0.112          | 0.01             | 23.54                | 24.30              | 1.191         | 0.133                 | 22.6             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 10  | QPSK 1 25  | 23130/711      | 1:1        | 0.139          | -0.07            | 23.96                | 24.80              | 1.213         | 0.169                 | 22.6             |
| Back side                                        | 10  | QPSK 1 25  | 23130/711      | 1:1        | 0.178          | 0.03             | 23.96                | 24.80              | 1.213         | 0.216                 | 22.6             |
| Left side                                        | 10  | QPSK 1 25  | 23130/711      | 1:1        | 0.253          | -0.04            | 23.96                | 24.80              | 1.213         | 0.307                 | 22.6             |
| Bottom side                                      | 10  | QPSK 1 25  | 23130/711      | 1:1        | 0.086          | 0.00             | 23.96                | 24.80              | 1.213         | 0.104                 | 22.6             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 10  | QPSK 25 13 | 23130/711      | 1:1        | 0.124          | -0.03            | 23.48                | 24.30              | 1.208         | 0.150                 | 22.6             |
| Back side                                        | 10  | QPSK 25 13 | 23130/711      | 1:1        | 0.164          | 0.04             | 23.48                | 24.30              | 1.208         | 0.198                 | 22.6             |
| Left side                                        | 10  | QPSK 25 13 | 23130/711      | 1:1        | 0.230          | -0.02            | 23.48                | 24.30              | 1.208         | 0.278                 | 22.6             |
| Bottom side                                      | 10  | QPSK 25 13 | 23130/711      | 1:1        | 0.083          | 0.03             | 23.48                | 24.30              | 1.208         | 0.100                 | 22.6             |

Table 20: SAR of LTE Band 12 for Head and Body.



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## 8.2.11 SAR Result of LTE Band 13

| Ant 11 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------------|-----|------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.166          | 0.11             | 24.35                | 25.50              | 1.303         | 0.216                 | 22.6             |
| Left tilted                                      | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.023          | 0.08             | 24.35                | 25.50              | 1.303         | 0.030                 | 22.6             |
| Right cheek                                      | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.077          | -0.09            | 24.35                | 25.50              | 1.303         | 0.100                 | 22.6             |
| Right tilted                                     | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.020          | 0.04             | 24.35                | 25.50              | 1.303         | 0.027                 | 22.6             |
| Head Test Data(50%RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.122          | 0.08             | 23.42                | 24.50              | 1.282         | 0.156                 | 22.6             |
| Left tilted                                      | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.019          | 0.08             | 23.42                | 24.50              | 1.282         | 0.024                 | 22.6             |
| Right cheek                                      | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.056          | 0.02             | 23.42                | 24.50              | 1.282         | 0.072                 | 22.6             |
| Right tilted                                     | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.016          | 0.17             | 23.42                | 24.50              | 1.282         | 0.021                 | 22.6             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.055          | 0.06             | 24.35                | 25.50              | 1.303         | 0.072                 | 22.6             |
| Back side                                        | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.077          | -0.10            | 24.35                | 25.50              | 1.303         | 0.100                 | 22.6             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.045          | 0.06             | 23.42                | 24.50              | 1.282         | 0.057                 | 22.6             |
| Back side                                        | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.063          | -0.13            | 23.42                | 24.50              | 1.282         | 0.081                 | 22.6             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.075          | 0.15             | 24.35                | 25.50              | 1.303         | 0.097                 | 22.6             |
| Back side                                        | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.136          | -0.16            | 24.35                | 25.50              | 1.303         | 0.177                 | 22.6             |
| Left side                                        | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.201          | -0.04            | 24.35                | 25.50              | 1.303         | 0.262                 | 22.6             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.071          | 0.16             | 23.42                | 24.50              | 1.282         | 0.091                 | 22.6             |
| Back side                                        | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.110          | -0.11            | 23.42                | 24.50              | 1.282         | 0.141                 | 22.6             |
| Left side                                        | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.164          | -0.02            | 23.42                | 24.50              | 1.282         | 0.210                 | 22.6             |
| Ant 41 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.091          | 0.08             | 24.43                | 25.30              | 1.222         | 0.111                 | 22.6             |
| Left tilted                                      | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.044          | 0.05             | 24.43                | 25.30              | 1.222         | 0.053                 | 22.6             |
| Right cheek                                      | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.081          | 0.02             | 24.43                | 25.30              | 1.222         | 0.099                 | 22.6             |
| Right tilted                                     | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.042          | 0.02             | 24.43                | 25.30              | 1.222         | 0.051                 | 22.6             |
| Head Test Data(50%RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.070          | 0.09             | 23.54                | 24.30              | 1.191         | 0.084                 | 22.6             |
| Left tilted                                      | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.035          | 0.01             | 23.54                | 24.30              | 1.191         | 0.041                 | 22.6             |
| Right cheek                                      | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.069          | 0.04             | 23.54                | 24.30              | 1.191         | 0.082                 | 22.6             |
| Right tilted                                     | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.034          | 0.04             | 23.54                | 24.30              | 1.191         | 0.040                 | 22.6             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.109          | -0.06            | 24.43                | 25.30              | 1.222         | 0.133                 | 22.6             |
| Back side                                        | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.120          | -0.10            | 24.43                | 25.30              | 1.222         | 0.147                 | 22.6             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.086          | 0.00             | 23.54                | 24.30              | 1.191         | 0.102                 | 22.6             |
| Back side                                        | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.097          | 0.02             | 23.54                | 24.30              | 1.191         | 0.115                 | 22.6             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.123          | 0.07             | 24.43                | 25.30              | 1.222         | 0.150                 | 22.6             |
| Back side                                        | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.209          | -0.13            | 24.43                | 25.30              | 1.222         | 0.255                 | 22.6             |
| Left side                                        | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.122          | 0.12             | 24.43                | 25.30              | 1.222         | 0.149                 | 22.6             |
| Bottom side                                      | 10  | QPSK 1 25  | 23230/782      | 1:1        | 0.104          | 0.03             | 24.43                | 25.30              | 1.222         | 0.127                 | 22.6             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.100          | 0.00             | 23.54                | 24.30              | 1.191         | 0.119                 | 22.6             |
| Back side                                        | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.164          | 0.03             | 23.54                | 24.30              | 1.191         | 0.195                 | 22.6             |
| Left side                                        | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.100          | -0.02            | 23.54                | 24.30              | 1.191         | 0.119                 | 22.6             |
| Bottom side                                      | 10  | QPSK 25 13 | 23230/782      | 1:1        | 0.084          | 0.07             | 23.54                | 24.30              | 1.191         | 0.100                 | 22.6             |

Table 21: SAR of LTE Band 13 for Head and Body.



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## 8.2.12 SAR Result of LTE Band 26

| Ant 11 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------------|-----|------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 15  | QPSK 1 74  | 26865/831.5    | 1:1        | 0.432          | 0.05             | 23.94                | 25.00              | 1.276         | <b>0.551</b>          | 22.4             |
| Left tilted                                      | 15  | QPSK 1 74  | 26865/831.5    | 1:1        | 0.060          | 0.08             | 23.94                | 25.00              | 1.276         | 0.076                 | 22.4             |
| Right cheek                                      | 15  | QPSK 1 74  | 26865/831.5    | 1:1        | 0.172          | 0.02             | 23.94                | 25.00              | 1.276         | 0.220                 | 22.4             |
| Right tilted                                     | 15  | QPSK 1 74  | 26865/831.5    | 1:1        | 0.052          | 0.03             | 23.94                | 25.00              | 1.276         | 0.066                 | 22.4             |
| Head Test Data(50%RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.308          | 0.03             | 23.00                | 24.00              | 1.259         | 0.388                 | 22.4             |
| Left tilted                                      | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.046          | 0.01             | 23.00                | 24.00              | 1.259         | 0.058                 | 22.4             |
| Right cheek                                      | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.136          | -0.10            | 23.00                | 24.00              | 1.259         | 0.171                 | 22.4             |
| Right tilted                                     | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.041          | 0.08             | 23.00                | 24.00              | 1.259         | 0.051                 | 22.4             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 15  | QPSK 1 74  | 26865/831.5    | 1:1        | 0.140          | -0.04            | 23.94                | 25.00              | 1.276         | 0.179                 | 22.4             |
| Back side                                        | 15  | QPSK 1 74  | 26865/831.5    | 1:1        | 0.199          | -0.14            | 23.94                | 25.00              | 1.276         | <b>0.254</b>          | 22.4             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.105          | 0.01             | 23.00                | 24.00              | 1.259         | 0.132                 | 22.4             |
| Back side                                        | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.156          | -0.14            | 23.00                | 24.00              | 1.259         | 0.196                 | 22.4             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 15  | QPSK 1 74  | 26865/831.5    | 1:1        | 0.224          | 0.10             | 23.94                | 25.00              | 1.276         | 0.286                 | 22.4             |
| Back side                                        | 15  | QPSK 1 74  | 26865/831.5    | 1:1        | 0.354          | -0.16            | 23.94                | 25.00              | 1.276         | 0.452                 | 22.4             |
| Left side                                        | 15  | QPSK 1 74  | 26865/831.5    | 1:1        | 0.488          | -0.03            | 23.94                | 25.00              | 1.276         | <b>0.623</b>          | 22.4             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.176          | 0.13             | 23.00                | 24.00              | 1.259         | 0.222                 | 22.4             |
| Back side                                        | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.276          | -0.15            | 23.00                | 24.00              | 1.259         | 0.347                 | 22.4             |
| Left side                                        | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.368          | -0.04            | 23.00                | 24.00              | 1.259         | 0.463                 | 22.4             |
| Ant 41 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 15  | QPSK 1 74  | 26765/821.5    | 1:1        | 0.140          | 0.07             | 24.01                | 25.00              | 1.256         | 0.176                 | 22.4             |
| Left tilted                                      | 15  | QPSK 1 74  | 26765/821.5    | 1:1        | 0.066          | 0.03             | 24.01                | 25.00              | 1.256         | 0.083                 | 22.4             |
| Right cheek                                      | 15  | QPSK 1 74  | 26765/821.5    | 1:1        | 0.139          | 0.04             | 24.01                | 25.00              | 1.256         | 0.175                 | 22.4             |
| Right tilted                                     | 15  | QPSK 1 74  | 26765/821.5    | 1:1        | 0.068          | 0.14             | 24.01                | 25.00              | 1.256         | 0.085                 | 22.4             |
| Head Test Data(50%RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.114          | 0.05             | 23.22                | 24.00              | 1.197         | 0.136                 | 22.4             |
| Left tilted                                      | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.053          | 0.18             | 23.22                | 24.00              | 1.197         | 0.064                 | 22.4             |
| Right cheek                                      | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.114          | 0.07             | 23.22                | 24.00              | 1.197         | 0.136                 | 22.4             |
| Right tilted                                     | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.055          | 0.03             | 23.22                | 24.00              | 1.197         | 0.065                 | 22.4             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 15  | QPSK 1 74  | 26765/821.5    | 1:1        | 0.139          | -0.03            | 24.01                | 25.00              | 1.256         | 0.175                 | 22.4             |
| Back side                                        | 15  | QPSK 1 74  | 26765/821.5    | 1:1        | 0.189          | 0.07             | 24.01                | 25.00              | 1.256         | 0.237                 | 22.4             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.112          | -0.01            | 23.22                | 24.00              | 1.197         | 0.134                 | 22.4             |
| Back side                                        | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.156          | 0.01             | 23.22                | 24.00              | 1.197         | 0.187                 | 22.4             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 15  | QPSK 1 74  | 26765/821.5    | 1:1        | 0.204          | -0.06            | 24.01                | 25.00              | 1.256         | 0.256                 | 22.4             |
| Back side                                        | 15  | QPSK 1 74  | 26765/821.5    | 1:1        | 0.346          | -0.02            | 24.01                | 25.00              | 1.256         | 0.435                 | 22.4             |
| Left side                                        | 15  | QPSK 1 74  | 26765/821.5    | 1:1        | 0.111          | -0.04            | 24.01                | 25.00              | 1.256         | 0.139                 | 22.4             |
| Bottom side                                      | 15  | QPSK 1 74  | 26765/821.5    | 1:1        | 0.174          | 0.02             | 24.01                | 25.00              | 1.256         | 0.219                 | 22.4             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.168          | -0.04            | 23.22                | 24.00              | 1.197         | 0.201                 | 22.4             |
| Back side                                        | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.297          | 0.00             | 23.22                | 24.00              | 1.197         | 0.355                 | 22.4             |
| Left side                                        | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.094          | -0.02            | 23.22                | 24.00              | 1.197         | 0.113                 | 22.4             |
| Bottom side                                      | 15  | QPSK 36 39 | 26765/821.5    | 1:1        | 0.149          | 0.03             | 23.22                | 24.00              | 1.197         | 0.178                 | 22.4             |

Table 22: SAR of LTE Band 26 for Head and Body.



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## 8.2.13 SAR Result of LTE Band 41

| Ant 15 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------------|-----|------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 20  | QPSK 1_0   | 40620/2593     | 1:1.58     | 0.245          | 0.08             | 16.97                | 17.80              | 1.211         | 0.297                 | 22.1             |
| Left tilted                                      | 20  | QPSK 1_0   | 40620/2593     | 1:1.58     | 0.288          | -0.07            | 16.97                | 17.80              | 1.211         | 0.349                 | 22.1             |
| Right cheek                                      | 20  | QPSK 1_0   | 40620/2593     | 1:1.58     | 0.490          | 0.01             | 16.97                | 17.80              | 1.211         | 0.593                 | 22.1             |
| Right tilted                                     | 20  | QPSK 1_0   | 40620/2593     | 1:1.58     | 0.335          | 0.15             | 16.97                | 17.80              | 1.211         | 0.406                 | 22.1             |
| Right cheek                                      | 20  | QPSK 1_0   | 40620/2593     | 1:1.58     | 0.475          | -0.19            | 16.39                | 17.80              | 1.384         | 0.657                 | 22.1             |
|                                                  |     | QPSK 0_0   | 40818/2612.8   |            |                |                  |                      |                    |               |                       |                  |
| Right cheek                                      | 20  | QPSK 1_0   | 39750/2506     | 1:1.58     | 0.429          | 0.02             | 16.62                | 17.80              | 1.312         | 0.563                 | 22.1             |
|                                                  |     | QPSK 0_0   | 39948/2525.8   |            |                |                  |                      |                    |               |                       |                  |
| Head Test Data(50%RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 20  | QPSK 50_0  | 40620/2593     | 1:1.58     | 0.232          | 0.06             | 17.04                | 17.80              | 1.191         | 0.276                 | 22.1             |
| Left tilted                                      | 20  | QPSK 50_0  | 40620/2593     | 1:1.58     | 0.276          | -0.04            | 17.04                | 17.80              | 1.191         | 0.329                 | 22.1             |
| Right cheek                                      | 20  | QPSK 50_0  | 40620/2593     | 1:1.58     | 0.462          | 0.12             | 17.04                | 17.80              | 1.191         | 0.550                 | 22.1             |
| Right tilted                                     | 20  | QPSK 50_0  | 40620/2593     | 1:1.58     | 0.329          | 0.08             | 17.04                | 17.80              | 1.191         | 0.392                 | 22.1             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1_0   | 40620/2593     | 1:1.58     | 0.169          | -0.09            | 23.37                | 24.30              | 1.239         | 0.209                 | 22.1             |
| Back side                                        | 20  | QPSK 1_0   | 40620/2593     | 1:1.58     | 0.143          | -0.06            | 23.37                | 24.30              | 1.239         | 0.177                 | 22.1             |
| Front side                                       | 20  | QPSK 1_0   | 40620/2593     | 1:1.58     | 0.125          | 0.06             | 22.85                | 24.30              | 1.396         | 0.175                 | 22.1             |
|                                                  |     | QPSK 0_0   | 40422/2573.2   |            |                |                  |                      |                    |               |                       |                  |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50_25 | 40620/2593     | 1:1.58     | 0.147          | 0.06             | 22.47                | 23.30              | 1.211         | 0.178                 | 22.1             |
| Back side                                        | 20  | QPSK 50_25 | 40620/2593     | 1:1.58     | 0.116          | -0.07            | 22.47                | 23.30              | 1.211         | 0.140                 | 22.1             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1_0   | 40620/2593     | 1:1.58     | 0.217          | 0.19             | 22.49                | 23.30              | 1.205         | 0.261                 | 22.1             |
| Back side                                        | 20  | QPSK 1_0   | 40620/2593     | 1:1.58     | 0.289          | -0.05            | 22.49                | 23.30              | 1.205         | 0.348                 | 22.1             |
| Left side                                        | 20  | QPSK 1_0   | 40620/2593     | 1:1.58     | 0.120          | 0.04             | 22.49                | 23.30              | 1.205         | 0.145                 | 22.1             |
| Top side                                         | 20  | QPSK 1_0   | 40620/2593     | 1:1.58     | 0.276          | -0.06            | 22.49                | 23.30              | 1.205         | 0.333                 | 22.1             |
| Back side                                        | 20  | QPSK 1_0   | 40620/2593     | 1:1.58     | 0.231          | 0.03             | 21.91                | 23.30              | 1.377         | 0.318                 | 22.1             |
|                                                  |     | QPSK 0_0   | 40818/2612.8   |            |                |                  |                      |                    |               |                       |                  |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50_0  | 40620/2593     | 1:1.58     | 0.218          | -0.03            | 22.48                | 23.30              | 1.208         | 0.263                 | 22.1             |
| Back side                                        | 20  | QPSK 50_0  | 40620/2593     | 1:1.58     | 0.271          | 0.02             | 22.48                | 23.30              | 1.208         | 0.327                 | 22.1             |
| Left side                                        | 20  | QPSK 50_0  | 40620/2593     | 1:1.58     | 0.120          | 0.13             | 22.48                | 23.30              | 1.208         | 0.145                 | 22.1             |
| Top side                                         | 20  | QPSK 50_0  | 40620/2593     | 1:1.58     | 0.277          | -0.04            | 22.48                | 23.30              | 1.208         | 0.335                 | 22.1             |
| Ant 31 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 20  | QPSK 1_50  | 41490/2680     | 1:1.58     | 0.018          | 0.09             | 24.31                | 25.00              | 1.172         | 0.021                 | 22.1             |
| Left tilted                                      | 20  | QPSK 1_50  | 41490/2680     | 1:1.58     | 0.023          | 0.04             | 24.31                | 25.00              | 1.172         | 0.027                 | 22.1             |
| Right cheek                                      | 20  | QPSK 1_50  | 41490/2680     | 1:1.58     | 0.053          | -0.09            | 24.31                | 25.00              | 1.172         | 0.062                 | 22.1             |
| Right tilted                                     | 20  | QPSK 1_50  | 41490/2680     | 1:1.58     | 0.061          | -0.06            | 24.31                | 25.00              | 1.172         | 0.071                 | 22.1             |
| Right tilted                                     | 20  | QPSK 1_0   | 41490/2680     | 1:1.58     | 0.070          | 0.07             | 23.54                | 25.00              | 1.400         | 0.098                 | 22.1             |
|                                                  |     | QPSK 0_0   | 41292/2660.2   |            |                |                  |                      |                    |               |                       |                  |
| Head Test Data(50%RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                  |



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|                                                  |    |            |              |        |       |       |       |       |       |       |      |
|--------------------------------------------------|----|------------|--------------|--------|-------|-------|-------|-------|-------|-------|------|
| Left cheek                                       | 20 | QPSK 50_25 | 40620/2593   | 1:1.58 | 0.021 | 0.07  | 23.37 | 24.00 | 1.156 | 0.025 | 22.1 |
| Left tilted                                      | 20 | QPSK 50_25 | 40620/2593   | 1:1.58 | 0.019 | 0.02  | 23.37 | 24.00 | 1.156 | 0.022 | 22.1 |
| Right cheek                                      | 20 | QPSK 50_25 | 40620/2593   | 1:1.58 | 0.036 | 0.00  | 23.37 | 24.00 | 1.156 | 0.042 | 22.1 |
| Right tilted                                     | 20 | QPSK 50_25 | 40620/2593   | 1:1.58 | 0.044 | -0.01 | 23.37 | 24.00 | 1.156 | 0.051 | 22.1 |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |    |            |              |        |       |       |       |       |       |       |      |
| Front side                                       | 20 | QPSK 1_99  | 40620/2593   | 1:1.58 | 0.069 | 0.01  | 23.71 | 24.50 | 1.199 | 0.082 | 22.1 |
| Back side                                        | 20 | QPSK 1_99  | 40620/2593   | 1:1.58 | 0.124 | -0.01 | 23.71 | 24.50 | 1.199 | 0.149 | 22.1 |
| Back side                                        | 20 | QPSK 1_0   | 40620/2593   | 1:1.58 | 0.140 | 0.02  | 23.21 | 24.50 | 1.346 | 0.188 | 22.1 |
|                                                  |    | QPSK 0_0   | 40818/2612.8 |        |       |       |       |       |       |       |      |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |    |            |              |        |       |       |       |       |       |       |      |
| Front side                                       | 20 | QPSK 50_50 | 41055/2636.5 | 1:1.58 | 0.050 | -0.07 | 23.36 | 24.00 | 1.159 | 0.058 | 22.1 |
| Back side                                        | 20 | QPSK 50_50 | 41055/2636.5 | 1:1.58 | 0.103 | -0.09 | 23.36 | 24.00 | 1.159 | 0.119 | 22.1 |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |    |            |              |        |       |       |       |       |       |       |      |
| Front side                                       | 20 | QPSK 1_99  | 40620/2593   | 1:1.58 | 0.088 | -0.07 | 22.32 | 23.00 | 1.169 | 0.103 | 22.1 |
| Back side                                        | 20 | QPSK 1_99  | 40620/2593   | 1:1.58 | 0.185 | -0.02 | 22.32 | 23.00 | 1.169 | 0.216 | 22.1 |
| Right side                                       | 20 | QPSK 1_99  | 40620/2593   | 1:1.58 | 0.044 | -0.03 | 22.32 | 23.00 | 1.169 | 0.051 | 22.1 |
| Bottom side                                      | 20 | QPSK 1_99  | 40620/2593   | 1:1.58 | 0.135 | 0.00  | 22.32 | 23.00 | 1.169 | 0.158 | 22.1 |
| Back side                                        | 20 | QPSK 1_0   | 40620/2593   | 1:1.58 | 0.190 | 0.10  | 21.70 | 23.00 | 1.349 | 0.256 | 22.1 |
|                                                  |    | QPSK 0_0   | 40818/2612.8 |        |       |       |       |       |       |       |      |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |    |            |              |        |       |       |       |       |       |       |      |
| Front side                                       | 20 | QPSK 50_0  | 40620/2593   | 1:1.58 | 0.084 | -0.08 | 22.46 | 23.00 | 1.132 | 0.095 | 22.1 |
| Back side                                        | 20 | QPSK 50_0  | 40620/2593   | 1:1.58 | 0.174 | 0.09  | 22.46 | 23.00 | 1.132 | 0.197 | 22.1 |
| Right side                                       | 20 | QPSK 50_0  | 40620/2593   | 1:1.58 | 0.047 | -0.09 | 22.46 | 23.00 | 1.132 | 0.053 | 22.1 |
| Bottom side                                      | 20 | QPSK 50_0  | 40620/2593   | 1:1.58 | 0.144 | 0.00  | 22.46 | 23.00 | 1.132 | 0.163 | 22.1 |

Table 23: SAR of LTE Band 41 for Head and Body.



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## 8.2.14 SAR Result of LTE Band 66

| Ant 15 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------------|-----|------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1 99  | 132072/1720    | 1:1        | 0.238          | -0.02            | 22.20                | 22.80              | 1.148         | 0.273                 | 22.1             |
| Back side                                        | 20  | QPSK 1 99  | 132072/1720    | 1:1        | 0.352          | 0.06             | 22.20                | 22.80              | 1.148         | 0.404                 | 22.1             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50 25 | 132572/1770    | 1:1        | 0.227          | 0.03             | 22.25                | 22.80              | 1.135         | 0.258                 | 22.1             |
| Back side                                        | 20  | QPSK 50 25 | 132572/1770    | 1:1        | 0.336          | -0.14            | 22.25                | 22.80              | 1.135         | 0.381                 | 22.1             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1 50  | 132322/1745    | 1:1        | 0.241          | 0.17             | 19.68                | 20.30              | 1.153         | 0.278                 | 22.1             |
| Back side                                        | 20  | QPSK 1 50  | 132322/1745    | 1:1        | 0.362          | -0.01            | 19.68                | 20.30              | 1.153         | 0.418                 | 22.1             |
| Left side                                        | 20  | QPSK 1 50  | 132322/1745    | 1:1        | 0.075          | -0.13            | 19.68                | 20.30              | 1.153         | 0.087                 | 22.1             |
| Top side                                         | 20  | QPSK 1 50  | 132322/1745    | 1:1        | 0.408          | 0.15             | 19.68                | 20.30              | 1.153         | 0.471                 | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50 50 | 132072/1720    | 1:1        | 0.247          | 0.12             | 19.71                | 20.30              | 1.146         | 0.283                 | 22.1             |
| Back side                                        | 20  | QPSK 50 50 | 132072/1720    | 1:1        | 0.367          | 0.13             | 19.71                | 20.30              | 1.146         | 0.420                 | 22.1             |
| Left side                                        | 20  | QPSK 50 50 | 132072/1720    | 1:1        | 0.083          | -0.10            | 19.71                | 20.30              | 1.146         | 0.095                 | 22.1             |
| Top side                                         | 20  | QPSK 50 50 | 132072/1720    | 1:1        | 0.429          | 0.12             | 19.71                | 20.30              | 1.146         | 0.491                 | 22.1             |
| Ant 31 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 20  | QPSK 1 50  | 132322/1745    | 1:1        | 0.140          | 0.02             | 24.02                | 24.50              | 1.117         | 0.156                 | 22.1             |
| Left tilted                                      | 20  | QPSK 1 50  | 132322/1745    | 1:1        | 0.047          | 0.13             | 24.02                | 24.50              | 1.117         | 0.052                 | 22.1             |
| Right cheek                                      | 20  | QPSK 1 50  | 132322/1745    | 1:1        | 0.079          | 0.01             | 24.02                | 24.50              | 1.117         | 0.089                 | 22.1             |
| Right tilted                                     | 20  | QPSK 1 50  | 132322/1745    | 1:1        | 0.047          | 0.03             | 24.02                | 24.50              | 1.117         | 0.052                 | 22.1             |
| Head Test Data(50%RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 20  | QPSK 50 50 | 132072/1720    | 1:1        | 0.101          | 0.09             | 23.11                | 23.50              | 1.094         | 0.110                 | 22.1             |
| Left tilted                                      | 20  | QPSK 50 50 | 132072/1720    | 1:1        | 0.033          | 0.16             | 23.11                | 23.50              | 1.094         | 0.036                 | 22.1             |
| Right cheek                                      | 20  | QPSK 50 50 | 132072/1720    | 1:1        | 0.060          | 0.08             | 23.11                | 23.50              | 1.094         | 0.066                 | 22.1             |
| Right tilted                                     | 20  | QPSK 50 50 | 132072/1720    | 1:1        | 0.036          | -0.01            | 23.11                | 23.50              | 1.094         | 0.039                 | 22.1             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1 50  | 132572/1770    | 1:1        | 0.207          | -0.04            | 21.97                | 22.50              | 1.130         | 0.234                 | 22.1             |
| Back side                                        | 20  | QPSK 1 50  | 132572/1770    | 1:1        | 0.275          | -0.06            | 21.97                | 22.50              | 1.130         | 0.311                 | 22.1             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50 50 | 132322/1745    | 1:1        | 0.234          | 0.01             | 22.08                | 22.50              | 1.102         | 0.258                 | 22.1             |
| Back side                                        | 20  | QPSK 50 50 | 132322/1745    | 1:1        | 0.306          | -0.02            | 22.08                | 22.50              | 1.102         | 0.337                 | 22.1             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1 99  | 132572/1770    | 1:1        | 0.196          | 0.07             | 19.35                | 20.00              | 1.161         | 0.228                 | 22.1             |
| Back side                                        | 20  | QPSK 1 99  | 132572/1770    | 1:1        | 0.285          | 0.13             | 19.35                | 20.00              | 1.161         | 0.331                 | 22.1             |
| Right side                                       | 20  | QPSK 1 99  | 132572/1770    | 1:1        | 0.049          | 0.08             | 19.35                | 20.00              | 1.161         | 0.057                 | 22.1             |
| Bottom side                                      | 20  | QPSK 1 99  | 132572/1770    | 1:1        | 0.350          | -0.17            | 19.35                | 20.00              | 1.161         | 0.407                 | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50 50 | 132072/1720    | 1:1        | 0.245          | 0.04             | 19.52                | 20.00              | 1.117         | 0.274                 | 22.1             |
| Back side                                        | 20  | QPSK 50 50 | 132072/1720    | 1:1        | 0.331          | 0.01             | 19.52                | 20.00              | 1.117         | 0.370                 | 22.1             |
| Right side                                       | 20  | QPSK 50 50 | 132072/1720    | 1:1        | 0.062          | 0.17             | 19.52                | 20.00              | 1.117         | 0.069                 | 22.1             |
| Bottom side                                      | 20  | QPSK 50 50 | 132072/1720    | 1:1        | 0.388          | -0.09            | 19.52                | 20.00              | 1.117         | 0.433                 | 22.1             |

Table 24: SAR of LTE Band 66 for Head and Body.



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## 8.2.15 SAR Result of 5G NR n2

| Ant 15 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------------|-----|------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1 53  | 376000/1880    | 100%       | 0.136          | 0.08             | 21.83                | 22.50              | 1.167         | 0.159                 | 21.9             |
| Back side                                        | 20  | QPSK 1 53  | 376000/1880    | 100%       | 0.187          | 0.12             | 21.83                | 22.50              | 1.167         | 0.218                 | 21.9             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50 28 | 372000/1860    | 100%       | 0.125          | 0.04             | 21.79                | 22.50              | 1.178         | 0.147                 | 21.9             |
| Back side                                        | 20  | QPSK 50 28 | 372000/1860    | 100%       | 0.178          | 0.18             | 21.79                | 22.50              | 1.178         | 0.210                 | 21.9             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1 53  | 376000/1880    | 100%       | 0.187          | 0.13             | 20.40                | 21.00              | 1.148         | 0.215                 | 21.9             |
| Back side                                        | 20  | QPSK 1 53  | 376000/1880    | 100%       | 0.249          | 0.10             | 20.40                | 21.00              | 1.148         | 0.286                 | 21.9             |
| Left side                                        | 20  | QPSK 1 53  | 376000/1880    | 100%       | 0.094          | -0.04            | 20.40                | 21.00              | 1.148         | 0.107                 | 21.9             |
| Top side                                         | 20  | QPSK 1 53  | 376000/1880    | 100%       | 0.328          | 0.03             | 20.40                | 21.00              | 1.148         | 0.377                 | 21.9             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50 28 | 376000/1880    | 100%       | 0.181          | 0.11             | 20.35                | 21.00              | 1.161         | 0.210                 | 21.9             |
| Back side                                        | 20  | QPSK 50 28 | 376000/1880    | 100%       | 0.281          | 0.16             | 20.35                | 21.00              | 1.161         | 0.326                 | 21.9             |
| Left side                                        | 20  | QPSK 50 28 | 376000/1880    | 100%       | 0.095          | 0.18             | 20.35                | 21.00              | 1.161         | 0.110                 | 21.9             |
| Top side                                         | 20  | QPSK 50 28 | 376000/1880    | 100%       | 0.336          | 0.08             | 20.35                | 21.00              | 1.161         | <b>0.390</b>          | 21.9             |
| Ant 31 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 20  | QPSK 1 53  | 376000/1880    | 100%       | 0.143          | 0.14             | 23.47                | 24.00              | 1.130         | <b>0.162</b>          | 21.9             |
| Left tilted                                      | 20  | QPSK 1 53  | 376000/1880    | 100%       | 0.056          | 0.02             | 23.47                | 24.00              | 1.130         | 0.063                 | 21.9             |
| Right cheek                                      | 20  | QPSK 1 53  | 376000/1880    | 100%       | 0.100          | 0.08             | 23.47                | 24.00              | 1.130         | 0.113                 | 21.9             |
| Right tilted                                     | 20  | QPSK 1 53  | 376000/1880    | 100%       | 0.102          | 0.04             | 23.47                | 24.00              | 1.130         | 0.115                 | 21.9             |
| Head Test Data(50%RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 20  | QPSK 50 28 | 376000/1880    | 100%       | 0.128          | 0.08             | 23.38                | 24.00              | 1.153         | 0.148                 | 21.9             |
| Left tilted                                      | 20  | QPSK 50 28 | 376000/1880    | 100%       | 0.057          | 0.04             | 23.38                | 24.00              | 1.153         | 0.066                 | 21.9             |
| Right cheek                                      | 20  | QPSK 50 28 | 376000/1880    | 100%       | 0.099          | 0.01             | 23.38                | 24.00              | 1.153         | 0.115                 | 21.9             |
| Right tilted                                     | 20  | QPSK 50 28 | 376000/1880    | 100%       | 0.104          | 0.05             | 23.38                | 24.00              | 1.153         | 0.120                 | 21.9             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1 104 | 376000/1880    | 100%       | 0.181          | 0.02             | 21.52                | 22.00              | 1.117         | 0.202                 | 21.9             |
| Back side                                        | 20  | QPSK 1 104 | 376000/1880    | 100%       | 0.232          | -0.16            | 21.52                | 22.00              | 1.117         | <b>0.259</b>          | 21.9             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50 28 | 380000/1900    | 100%       | 0.158          | 0.15             | 21.42                | 22.00              | 1.143         | 0.181                 | 21.9             |
| Back side                                        | 20  | QPSK 50 28 | 380000/1900    | 100%       | 0.223          | 0.14             | 21.42                | 22.00              | 1.143         | 0.255                 | 21.9             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 1 53  | 376000/1880    | 100%       | 0.200          | 0.10             | 19.47                | 20.00              | 1.130         | 0.226                 | 21.9             |
| Back side                                        | 20  | QPSK 1 53  | 376000/1880    | 100%       | 0.286          | -0.10            | 19.47                | 20.00              | 1.130         | 0.323                 | 21.9             |
| Right side                                       | 20  | QPSK 1 53  | 376000/1880    | 100%       | 0.086          | -0.07            | 19.47                | 20.00              | 1.130         | 0.097                 | 21.9             |
| Bottom side                                      | 20  | QPSK 1 53  | 376000/1880    | 100%       | 0.305          | -0.07            | 19.47                | 20.00              | 1.130         | 0.345                 | 21.9             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 20  | QPSK 50 28 | 380000/1900    | 100%       | 0.195          | 0.02             | 19.43                | 20.00              | 1.140         | 0.222                 | 21.9             |
| Back side                                        | 20  | QPSK 50 28 | 380000/1900    | 100%       | 0.272          | -0.11            | 19.43                | 20.00              | 1.140         | 0.310                 | 21.9             |
| Right side                                       | 20  | QPSK 50 28 | 380000/1900    | 100%       | 0.082          | -0.12            | 19.43                | 20.00              | 1.140         | 0.093                 | 21.9             |
| Bottom side                                      | 20  | QPSK 50 28 | 380000/1900    | 100%       | 0.274          | 0.02             | 19.43                | 20.00              | 1.140         | 0.312                 | 21.9             |

Table 25: SAR of 5G NR n2 for Head and Body.



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## 8.2.16 SAR Result of 5G NR n7

| Ant 12 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------------|-----|------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 40  | QPSK1_108  | 504000/2520    | 100%       | 0.112          | 0.07             | 19.79                | 20.50              | 1.178         | 0.132                 | 22.1             |
| Left tilted                                      | 40  | QPSK1_108  | 504000/2520    | 100%       | 0.065          | 0.07             | 19.79                | 20.50              | 1.178         | 0.076                 | 22.1             |
| Right cheek                                      | 40  | QPSK1_108  | 504000/2520    | 100%       | 0.446          | 0.03             | 19.79                | 20.50              | 1.178         | 0.525                 | 22.1             |
| Right tilted                                     | 40  | QPSK1_108  | 504000/2520    | 100%       | 0.173          | 0.05             | 19.79                | 20.50              | 1.178         | 0.204                 | 22.1             |
| Head Test Data(50%RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 40  | QPSK108_54 | 504000/2520    | 100%       | 0.132          | 0.09             | 19.80                | 20.50              | 1.175         | 0.155                 | 22.1             |
| Left tilted                                      | 40  | QPSK108_54 | 504000/2520    | 100%       | 0.086          | 0.05             | 19.80                | 20.50              | 1.175         | 0.101                 | 22.1             |
| Right cheek                                      | 40  | QPSK108_54 | 504000/2520    | 100%       | 0.403          | 0.07             | 19.80                | 20.50              | 1.175         | 0.473                 | 22.1             |
| Right tilted                                     | 40  | QPSK108_54 | 504000/2520    | 100%       | 0.169          | 0.05             | 19.80                | 20.50              | 1.175         | 0.199                 | 22.1             |
| Body worn Test data(Separate 15mm 1RB) DSI 7     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK1_108  | 504000/2520    | 100%       | 0.099          | -0.18            | 23.24                | 24.00              | 1.191         | 0.118                 | 22.1             |
| Back side                                        | 40  | QPSK1_108  | 504000/2520    | 100%       | 0.195          | -0.04            | 23.24                | 24.00              | 1.191         | 0.232                 | 22.1             |
| Body worn Test data(Separate 15mm 50%RB) DSI 7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK108_54 | 504000/2520    | 100%       | 0.098          | -0.19            | 23.25                | 24.00              | 1.189         | 0.116                 | 22.1             |
| Back side                                        | 40  | QPSK108_54 | 504000/2520    | 100%       | 0.203          | -0.06            | 23.25                | 24.00              | 1.189         | <b>0.241</b>          | 22.1             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK1_108  | 504000/2520    | 100%       | 0.092          | 0.09             | 19.79                | 20.50              | 1.178         | 0.109                 | 22.1             |
| Back side                                        | 40  | QPSK1_108  | 504000/2520    | 100%       | 0.180          | -0.03            | 19.79                | 20.50              | 1.178         | 0.212                 | 22.1             |
| Left side                                        | 40  | QPSK1_108  | 504000/2520    | 100%       | 0.123          | -0.11            | 19.79                | 20.50              | 1.178         | 0.145                 | 22.1             |
| Top side                                         | 40  | QPSK1_108  | 504000/2520    | 100%       | 0.032          | -0.09            | 19.79                | 20.50              | 1.178         | 0.038                 | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK108_54 | 504000/2520    | 100%       | 0.080          | -0.05            | 19.80                | 20.50              | 1.175         | 0.094                 | 22.1             |
| Back side                                        | 40  | QPSK108_54 | 504000/2520    | 100%       | 0.186          | 0.06             | 19.80                | 20.50              | 1.175         | 0.219                 | 22.1             |
| Left side                                        | 40  | QPSK108_54 | 504000/2520    | 100%       | 0.175          | -0.11            | 19.80                | 20.50              | 1.175         | 0.206                 | 22.1             |
| Top side                                         | 40  | QPSK108_54 | 504000/2520    | 100%       | 0.029          | -0.17            | 19.80                | 20.50              | 1.175         | 0.034                 | 22.1             |
| Ant 15 Test Record                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 40  | QPSK1_108  | 510000/2550    | 100%       | 0.245          | 0.10             | 14.46                | 15.00              | 1.132         | 0.277                 | 22.1             |
| Left tilted                                      | 40  | QPSK1_108  | 510000/2550    | 100%       | 0.272          | 0.13             | 14.46                | 15.00              | 1.132         | 0.308                 | 22.1             |
| Right cheek                                      | 40  | QPSK1_108  | 510000/2550    | 100%       | 0.569          | 0.01             | 14.46                | 15.00              | 1.132         | <b>0.644</b>          | 22.1             |
| Right tilted                                     | 40  | QPSK1_108  | 510000/2550    | 100%       | 0.407          | 0.16             | 14.46                | 15.00              | 1.132         | 0.461                 | 22.1             |
| Head Test Data(50%RB) DSI 2                      |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 40  | QPSK108_54 | 510000/2550    | 100%       | 0.265          | -0.02            | 14.33                | 15.00              | 1.167         | 0.309                 | 22.1             |
| Left tilted                                      | 40  | QPSK108_54 | 510000/2550    | 100%       | 0.248          | 0.10             | 14.33                | 15.00              | 1.167         | 0.289                 | 22.1             |
| Right cheek                                      | 40  | QPSK108_54 | 510000/2550    | 100%       | 0.514          | 0.07             | 14.33                | 15.00              | 1.167         | 0.600                 | 22.1             |
| Right tilted                                     | 40  | QPSK108_54 | 510000/2550    | 100%       | 0.399          | 0.02             | 14.33                | 15.00              | 1.167         | 0.466                 | 22.1             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK1_108  | 510000/2550    | 100%       | 0.196          | 0.03             | 21.54                | 22.00              | 1.112         | 0.218                 | 22.1             |
| Back side                                        | 40  | QPSK1_108  | 510000/2550    | 100%       | 0.201          | -0.01            | 21.54                | 22.00              | 1.112         | 0.223                 | 22.1             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK108_54 | 510000/2550    | 100%       | 0.195          | -0.09            | 21.39                | 22.00              | 1.151         | 0.224                 | 22.1             |



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|                                              |    |            |             |      |       |       |       |       |       |              |      |
|----------------------------------------------|----|------------|-------------|------|-------|-------|-------|-------|-------|--------------|------|
| Back side                                    | 40 | QPSK108_54 | 510000/2550 | 100% | 0.201 | -0.05 | 21.39 | 22.00 | 1.151 | 0.231        | 22.1 |
| Hotspot Test data(Separate 10mm 1RB) DSI 6   |    |            |             |      |       |       |       |       |       |              |      |
| Front side                                   | 40 | QPSK1_108  | 510000/2550 | 100% | 0.271 | -0.08 | 20.08 | 20.50 | 1.102 | 0.299        | 22.1 |
| Back side                                    | 40 | QPSK1_108  | 510000/2550 | 100% | 0.307 | -0.05 | 20.08 | 20.50 | 1.102 | 0.338        | 22.1 |
| Left side                                    | 40 | QPSK1_108  | 510000/2550 | 100% | 0.164 | -0.04 | 20.08 | 20.50 | 1.102 | 0.181        | 22.1 |
| Top side                                     | 40 | QPSK1_108  | 510000/2550 | 100% | 0.311 | 0.09  | 20.08 | 20.50 | 1.102 | 0.343        | 22.1 |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6 |    |            |             |      |       |       |       |       |       |              |      |
| Front side                                   | 40 | QPSK108_54 | 510000/2550 | 100% | 0.255 | -0.09 | 19.85 | 20.50 | 1.161 | 0.296        | 22.1 |
| Back side                                    | 40 | QPSK108_54 | 510000/2550 | 100% | 0.298 | -0.02 | 19.85 | 20.50 | 1.161 | 0.346        | 22.1 |
| Left side                                    | 40 | QPSK108_54 | 510000/2550 | 100% | 0.153 | -0.09 | 19.85 | 20.50 | 1.161 | 0.178        | 22.1 |
| Top side                                     | 40 | QPSK108_54 | 510000/2550 | 100% | 0.307 | -0.08 | 19.85 | 20.50 | 1.161 | <b>0.357</b> | 22.1 |

Table 26: SAR of 5G NR n7 for Head and Body.



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## 8.2.17 SAR Result of 5G NR n26

| Ant 11 Test Record                                          |     |            |                |            |                |                  |                      |                    |               |                       |                 |
|-------------------------------------------------------------|-----|------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|-----------------|
| Test position                                               | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(℃) |
| Head Test Data(1RB) DSI 2                                   |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Left cheek                                                  | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.547          | 0.02             | 23.76                | 25.00              | 1.330         | 0.728                 | 22.3            |
| Left tilted                                                 | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.070          | 0.02             | 23.76                | 25.00              | 1.330         | 0.093                 | 22.3            |
| Right cheek                                                 | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.242          | 0.09             | 23.76                | 25.00              | 1.330         | 0.322                 | 22.3            |
| Right tilted                                                | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.049          | 0.09             | 23.76                | 25.00              | 1.330         | 0.065                 | 22.3            |
| Head Test Data(50%RB) DSI 2                                 |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Left cheek                                                  | 20  | QPSK 50_28 | 166300/831.5   | 100%       | 0.594          | 0.03             | 23.80                | 25.00              | 1.318         | <b>0.783</b>          | 22.3            |
| Left tilted                                                 | 20  | QPSK 50_28 | 166300/831.5   | 100%       | 0.074          | -0.07            | 23.80                | 25.00              | 1.318         | 0.098                 | 22.3            |
| Right cheek                                                 | 20  | QPSK 50_28 | 166300/831.5   | 100%       | 0.261          | 0.17             | 23.80                | 25.00              | 1.318         | 0.344                 | 22.3            |
| Right tilted                                                | 20  | QPSK 50_28 | 166300/831.5   | 100%       | 0.053          | 0.08             | 23.80                | 25.00              | 1.318         | 0.069                 | 22.3            |
| Head Test Data(1RB) with Simultaneous transmission DSI 3*   |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Left cheek                                                  | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.547          | 0.02             | 23.76                | 24.50              | 1.186         | 0.649                 | 22.3            |
| Left tilted                                                 | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.070          | 0.02             | 23.76                | 24.50              | 1.186         | 0.083                 | 22.3            |
| Right cheek                                                 | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.242          | 0.09             | 23.76                | 24.50              | 1.186         | 0.287                 | 22.3            |
| Right tilted                                                | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.049          | 0.09             | 23.76                | 24.50              | 1.186         | 0.058                 | 22.3            |
| Head Test Data(50%RB) with Simultaneous transmission DSI 3* |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Left cheek                                                  | 20  | QPSK 50_28 | 166300/831.5   | 100%       | 0.594          | 0.03             | 23.80                | 24.50              | 1.175         | 0.698                 | 22.3            |
| Left tilted                                                 | 20  | QPSK 50_28 | 166300/831.5   | 100%       | 0.074          | -0.07            | 23.80                | 24.50              | 1.175         | 0.087                 | 22.3            |
| Right cheek                                                 | 20  | QPSK 50_28 | 166300/831.5   | 100%       | 0.261          | 0.17             | 23.80                | 24.50              | 1.175         | 0.307                 | 22.3            |
| Right tilted                                                | 20  | QPSK 50_28 | 166300/831.5   | 100%       | 0.053          | 0.08             | 23.80                | 24.50              | 1.175         | 0.062                 | 22.3            |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7              |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Front side                                                  | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.141          | -0.02            | 23.76                | 25.00              | 1.330         | 0.188                 | 22.3            |
| Back side                                                   | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.191          | -0.14            | 23.76                | 25.00              | 1.330         | 0.254                 | 22.3            |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7            |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Front side                                                  | 20  | QPSK 50_28 | 166300/831.5   | 100%       | 0.150          | 0.11             | 23.80                | 25.00              | 1.318         | 0.198                 | 22.3            |
| Back side                                                   | 20  | QPSK 50_28 | 166300/831.5   | 100%       | 0.204          | -0.05            | 23.80                | 25.00              | 1.318         | 0.269                 | 22.3            |
| Hotspot Test data(Separate 10mm 1RB) DSI 6                  |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Front side                                                  | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.213          | 0.10             | 23.21                | 24.50              | 1.346         | 0.287                 | 22.3            |
| Back side                                                   | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.310          | -0.06            | 23.21                | 24.50              | 1.346         | 0.417                 | 22.3            |
| Left side                                                   | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.457          | 0.13             | 23.21                | 24.50              | 1.346         | 0.615                 | 22.3            |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6                |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Front side                                                  | 20  | QPSK 50_28 | 166300/831.5   | 100%       | 0.219          | 0.13             | 23.25                | 24.50              | 1.334         | 0.292                 | 22.3            |
| Back side                                                   | 20  | QPSK 50_28 | 166300/831.5   | 100%       | 0.327          | -0.01            | 23.25                | 24.50              | 1.334         | 0.436                 | 22.3            |
| Left side                                                   | 20  | QPSK 50_28 | 166300/831.5   | 100%       | 0.476          | 0.14             | 23.25                | 24.50              | 1.334         | <b>0.635</b>          | 22.3            |
| Ant 41 Test Record                                          |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Test position                                               | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(℃) |
| Head Test Data(1RB) DSI 2                                   |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Left cheek                                                  | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.121          | 0.02             | 23.71                | 25.00              | 1.346         | 0.163                 | 22.3            |
| Left tilted                                                 | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.062          | 0.18             | 23.71                | 25.00              | 1.346         | 0.084                 | 22.3            |
| Right cheek                                                 | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.095          | 0.05             | 23.71                | 25.00              | 1.346         | 0.127                 | 22.3            |
| Right tilted                                                | 20  | QPSK 1_1   | 166300/831.5   | 100%       | 0.042          | 0.07             | 23.71                | 25.00              | 1.346         | 0.057                 | 22.3            |
| Head Test Data(50%RB) DSI 2                                 |     |            |                |            |                |                  |                      |                    |               |                       |                 |
| Left cheek                                                  | 20  | QPSK 50_28 | 166300/831.5   | 100%       | 0.110          | 0.06             | 23.78                | 25.00              | 1.324         | 0.146                 | 22.3            |



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|                                                  |    |            |              |      |       |       |       |       |       |              |      |
|--------------------------------------------------|----|------------|--------------|------|-------|-------|-------|-------|-------|--------------|------|
| Left tilted                                      | 20 | QPSK 50_28 | 166300/831.5 | 100% | 0.069 | 0.03  | 23.78 | 25.00 | 1.324 | 0.092        | 22.3 |
| Right cheek                                      | 20 | QPSK 50_28 | 166300/831.5 | 100% | 0.087 | 0.04  | 23.78 | 25.00 | 1.324 | 0.116        | 22.3 |
| Right tilted                                     | 20 | QPSK 50_28 | 166300/831.5 | 100% | 0.041 | 0.13  | 23.78 | 25.00 | 1.324 | 0.055        | 22.3 |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |    |            |              |      |       |       |       |       |       |              |      |
| Front side                                       | 20 | QPSK 1_1   | 166300/831.5 | 100% | 0.146 | -0.08 | 23.71 | 25.00 | 1.346 | 0.196        | 22.3 |
| Back side                                        | 20 | QPSK 1_1   | 166300/831.5 | 100% | 0.198 | -0.07 | 23.71 | 25.00 | 1.346 | 0.266        | 22.3 |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |    |            |              |      |       |       |       |       |       |              |      |
| Front side                                       | 20 | QPSK 50_28 | 166300/831.5 | 100% | 0.149 | -0.04 | 23.78 | 25.00 | 1.324 | 0.197        | 22.3 |
| Back side                                        | 20 | QPSK 50_28 | 166300/831.5 | 100% | 0.208 | -0.04 | 23.78 | 25.00 | 1.324 | <b>0.275</b> | 22.3 |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |    |            |              |      |       |       |       |       |       |              |      |
| Front side                                       | 20 | QPSK 1_1   | 166300/831.5 | 100% | 0.179 | 0.01  | 22.77 | 24.00 | 1.327 | 0.238        | 22.3 |
| Back side                                        | 20 | QPSK 1_1   | 166300/831.5 | 100% | 0.280 | -0.01 | 22.77 | 24.00 | 1.327 | 0.372        | 22.3 |
| Left side                                        | 20 | QPSK 1_1   | 166300/831.5 | 100% | 0.120 | -0.02 | 22.77 | 24.00 | 1.327 | 0.159        | 22.3 |
| Bottom side                                      | 20 | QPSK 1_1   | 166300/831.5 | 100% | 0.137 | -0.08 | 22.77 | 24.00 | 1.327 | 0.182        | 22.3 |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |    |            |              |      |       |       |       |       |       |              |      |
| Front side                                       | 20 | QPSK 50_28 | 166300/831.5 | 100% | 0.187 | -0.03 | 22.83 | 24.00 | 1.309 | 0.245        | 22.3 |
| Back side                                        | 20 | QPSK 50_28 | 166300/831.5 | 100% | 0.296 | -0.03 | 22.83 | 24.00 | 1.309 | 0.388        | 22.3 |
| Left side                                        | 20 | QPSK 50_28 | 166300/831.5 | 100% | 0.117 | 0.04  | 22.83 | 24.00 | 1.309 | 0.153        | 22.3 |
| Bottom side                                      | 20 | QPSK 50_28 | 166300/831.5 | 100% | 0.147 | -0.07 | 22.83 | 24.00 | 1.309 | 0.192        | 22.3 |

Table 27: SAR of 5G NR n26 for Head and Body.

Note: \* The simultaneous transmission is reduced by XdB (the detailed power reduced can be referred to Conducted Power Appendix E), therefore, those SAR of simultaneous transmission mode are scaled based on standalone SAR results.



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## 8.2.18 SAR Result of 5G NR n38

| Ant 12 Test Record                               |     |           |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------------|-----|-----------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                                    | BW. | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 40  | QPSK1_1   | 520000/2600    | 100%       | 0.238          | 0.05             | 19.94                | 21.00              | 1.276         | 0.304                 | 22.5             |
| Left tilted                                      | 40  | QPSK1_1   | 520000/2600    | 100%       | 0.108          | 0.06             | 19.94                | 21.00              | 1.276         | 0.138                 | 22.5             |
| Right cheek                                      | 40  | QPSK1_1   | 520000/2600    | 100%       | 0.566          | 0.02             | 19.94                | 21.00              | 1.276         | 0.722                 | 22.5             |
| Right tilted                                     | 40  | QPSK1_1   | 520000/2600    | 100%       | 0.271          | 0.01             | 19.94                | 21.00              | 1.276         | 0.346                 | 22.5             |
| Head Test Data(50%RB) DSI 2                      |     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 40  | QPSK50_28 | 519000/2595    | 100%       | 0.230          | 0.03             | 19.79                | 21.00              | 1.321         | 0.304                 | 22.5             |
| Left tilted                                      | 40  | QPSK50_28 | 519000/2595    | 100%       | 0.115          | 0.05             | 19.79                | 21.00              | 1.321         | 0.152                 | 22.5             |
| Right cheek                                      | 40  | QPSK50_28 | 519000/2595    | 100%       | 0.560          | 0.06             | 19.79                | 21.00              | 1.321         | <b>0.740</b>          | 22.5             |
| Right tilted                                     | 40  | QPSK50_28 | 519000/2595    | 100%       | 0.253          | 0.05             | 19.79                | 21.00              | 1.321         | 0.334                 | 22.5             |
| Body worn Test data(Separate 15mm 1RB) DSI 7     |     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK1_1   | 520000/2600    | 100%       | 0.164          | 0.09             | 23.91                | 25.00              | 1.285         | 0.211                 | 22.5             |
| Back side                                        | 40  | QPSK1_1   | 520000/2600    | 100%       | 0.325          | -0.05            | 23.91                | 25.00              | 1.285         | <b>0.418</b>          | 22.5             |
| Body worn Test data(Separate 15mm 50%RB) DSI 7   |     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK50_28 | 520000/2600    | 100%       | 0.171          | -0.08            | 23.85                | 25.00              | 1.303         | 0.223                 | 22.5             |
| Back side                                        | 40  | QPSK50_28 | 520000/2600    | 100%       | 0.314          | -0.09            | 23.85                | 25.00              | 1.303         | 0.409                 | 22.5             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK1_1   | 520000/2600    | 100%       | 0.107          | -0.04            | 19.42                | 20.50              | 1.282         | 0.137                 | 22.5             |
| Back side                                        | 40  | QPSK1_1   | 520000/2600    | 100%       | 0.234          | -0.10            | 19.42                | 20.50              | 1.282         | 0.300                 | 22.5             |
| Left side                                        | 40  | QPSK1_1   | 520000/2600    | 100%       | 0.218          | 0.05             | 19.42                | 20.50              | 1.282         | 0.280                 | 22.5             |
| Top side                                         | 40  | QPSK1_1   | 520000/2600    | 100%       | 0.024          | -0.07            | 19.42                | 20.50              | 1.282         | 0.030                 | 22.5             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK50_28 | 520000/2600    | 100%       | 0.119          | -0.02            | 19.39                | 20.50              | 1.291         | 0.154                 | 22.5             |
| Back side                                        | 40  | QPSK50_28 | 520000/2600    | 100%       | 0.262          | -0.01            | 19.39                | 20.50              | 1.291         | <b>0.338</b>          | 22.5             |
| Left side                                        | 40  | QPSK50_28 | 520000/2600    | 100%       | 0.248          | 0.10             | 19.39                | 20.50              | 1.291         | 0.320                 | 22.5             |
| Top side                                         | 40  | QPSK50_28 | 520000/2600    | 100%       | 0.029          | 0.07             | 19.39                | 20.50              | 1.291         | 0.037                 | 22.5             |
| Ant 23 Test Record                               |     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 40  | QPSK1_1   | 518000/2590    | 100%       | 0.437          | 0.03             | 17.97                | 19.50              | 1.422         | 0.622                 | 22.5             |
| Left tilted                                      | 40  | QPSK1_1   | 518000/2590    | 100%       | 0.137          | 0.02             | 17.97                | 19.50              | 1.422         | 0.195                 | 22.5             |
| Right cheek                                      | 40  | QPSK1_1   | 518000/2590    | 100%       | 0.136          | 0.02             | 17.97                | 19.50              | 1.422         | 0.193                 | 22.5             |
| Right tilted                                     | 40  | QPSK1_1   | 518000/2590    | 100%       | 0.047          | 0.17             | 17.97                | 19.50              | 1.422         | 0.066                 | 22.5             |
| Head Test Data(50%RB) DSI 2                      |     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 40  | QPSK50_28 | 518000/2590    | 100%       | 0.438          | 0.09             | 17.81                | 19.50              | 1.476         | 0.646                 | 22.5             |
| Left tilted                                      | 40  | QPSK50_28 | 518000/2590    | 100%       | 0.146          | -0.12            | 17.81                | 19.50              | 1.476         | 0.215                 | 22.5             |
| Right cheek                                      | 40  | QPSK50_28 | 518000/2590    | 100%       | 0.127          | 0.09             | 17.81                | 19.50              | 1.476         | 0.187                 | 22.5             |
| Right tilted                                     | 40  | QPSK50_28 | 518000/2590    | 100%       | 0.048          | 0.05             | 17.81                | 19.50              | 1.476         | 0.071                 | 22.5             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK1_1   | 518000/2590    | 100%       | 0.059          | 0.01             | 20.42                | 22.00              | 1.439         | 0.085                 | 22.5             |
| Back side                                        | 40  | QPSK1_1   | 518000/2590    | 100%       | 0.088          | -0.12            | 20.42                | 22.00              | 1.439         | 0.127                 | 22.5             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |           |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK50_28 | 518000/2590    | 100%       | 0.054          | 0.06             | 20.33                | 22.00              | 1.469         | 0.080                 | 22.5             |
| Back side                                        | 40  | QPSK50_28 | 518000/2590    | 100%       | 0.086          | 0.01             | 20.33                | 22.00              | 1.469         | 0.127                 | 22.5             |



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| Hotspot Test data(Separate 10mm 1RB) DSI 6   |    |           |             |      |       |       |       |       |       |       |      |
|----------------------------------------------|----|-----------|-------------|------|-------|-------|-------|-------|-------|-------|------|
| Front side                                   | 40 | QPSK1_1   | 518000/2590 | 100% | 0.076 | 0.11  | 18.91 | 20.50 | 1.442 | 0.110 | 22.5 |
| Back side                                    | 40 | QPSK1_1   | 518000/2590 | 100% | 0.130 | 0.05  | 18.91 | 20.50 | 1.442 | 0.187 | 22.5 |
| Right side                                   | 40 | QPSK1_1   | 518000/2590 | 100% | 0.142 | -0.09 | 18.91 | 20.50 | 1.442 | 0.205 | 22.5 |
| Top side                                     | 40 | QPSK1_1   | 518000/2590 | 100% | 0.031 | 0.05  | 18.91 | 20.50 | 1.442 | 0.045 | 22.5 |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6 |    |           |             |      |       |       |       |       |       |       |      |
| Front side                                   | 40 | QPSK50_28 | 519000/2595 | 100% | 0.071 | 0.03  | 18.80 | 20.50 | 1.479 | 0.105 | 22.5 |
| Back side                                    | 40 | QPSK50_28 | 519000/2595 | 100% | 0.124 | 0.06  | 18.80 | 20.50 | 1.479 | 0.183 | 22.5 |
| Right side                                   | 40 | QPSK50_28 | 519000/2595 | 100% | 0.156 | 0.06  | 18.80 | 20.50 | 1.479 | 0.231 | 22.5 |
| Top side                                     | 40 | QPSK50_28 | 519000/2595 | 100% | 0.032 | 0.05  | 18.80 | 20.50 | 1.479 | 0.047 | 22.5 |

Table 28: SAR of 5G NR n38 for Head and Body.



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## 8.2.19 SAR Result of 5G NR n41

| Ant 12 Test Record                                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
|-----------------------------------------------------------|-----|------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                                             | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                                 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                                | 100 | QPSK1_1    | 509202/2546.01 | 100%       | 0.096          | -0.04            | 20.22                | 21.50              | 1.343         | 0.128                 | 22.1             |
| Left tilted                                               | 100 | QPSK1_1    | 509202/2546.01 | 100%       | 0.046          | 0.02             | 20.22                | 21.50              | 1.343         | 0.062                 | 22.1             |
| Right cheek                                               | 100 | QPSK1_1    | 509202/2546.01 | 100%       | 0.442          | 0.03             | 20.22                | 21.50              | 1.343         | 0.594                 | 22.1             |
| Right tilted                                              | 100 | QPSK1_1    | 509202/2546.01 | 100%       | 0.127          | -0.09            | 20.22                | 21.50              | 1.343         | 0.171                 | 22.1             |
| Head Test Data(50%RB) DSI 2                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                                | 100 | QPSK135_69 | 513900/2569.5  | 100%       | 0.131          | -0.07            | 20.20                | 21.50              | 1.349         | 0.177                 | 22.1             |
| Left tilted                                               | 100 | QPSK135_69 | 513900/2569.5  | 100%       | 0.097          | 0.03             | 20.20                | 21.50              | 1.349         | 0.131                 | 22.1             |
| Right cheek                                               | 100 | QPSK135_69 | 513900/2569.5  | 100%       | 0.515          | 0.05             | 20.20                | 21.50              | 1.349         | 0.695                 | 22.1             |
| Right tilted                                              | 100 | QPSK135_69 | 513900/2569.5  | 100%       | 0.192          | -0.09            | 20.20                | 21.50              | 1.349         | 0.259                 | 22.1             |
| Right cheek                                               | 100 | QPSK135_69 | 509202/2546.01 | 100%       | 0.514          | 0.06             | 20.11                | 21.50              | 1.377         | 0.708                 | 22.1             |
| Body worn Test data(Separate 15mm 1RB) DSI 7              |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                                | 100 | QPSK1_1    | 509202/2546.01 | 100%       | 0.077          | -0.04            | 24.18                | 25.50              | 1.355         | 0.105                 | 22.1             |
| Back side                                                 | 100 | QPSK1_1    | 509202/2546.01 | 100%       | 0.145          | -0.07            | 24.18                | 25.50              | 1.355         | 0.197                 | 22.1             |
| Body worn Test data(Separate 15mm 50%RB) DSI 7            |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                                | 100 | QPSK135_69 | 509202/2546.01 | 100%       | 0.136          | -0.02            | 24.14                | 25.50              | 1.368         | 0.186                 | 22.1             |
| Back side                                                 | 100 | QPSK135_69 | 509202/2546.01 | 100%       | 0.218          | -0.07            | 24.14                | 25.50              | 1.368         | <b>0.298</b>          | 22.1             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6                |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                                | 100 | QPSK1_1    | 509202/2546.01 | 100%       | 0.077          | -0.07            | 19.71                | 21.00              | 1.346         | 0.104                 | 22.1             |
| Back side                                                 | 100 | QPSK1_1    | 509202/2546.01 | 100%       | 0.172          | -0.07            | 19.71                | 21.00              | 1.346         | 0.231                 | 22.1             |
| Left side                                                 | 100 | QPSK1_1    | 509202/2546.01 | 100%       | 0.154          | 0.07             | 19.71                | 21.00              | 1.346         | 0.207                 | 22.1             |
| Top side                                                  | 100 | QPSK1_1    | 509202/2546.01 | 100%       | 0.020          | -0.12            | 19.71                | 21.00              | 1.346         | 0.027                 | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6              |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                                | 100 | QPSK135_69 | 509202/2546.01 | 100%       | 0.085          | -0.07            | 19.66                | 21.00              | 1.361         | 0.115                 | 22.1             |
| Back side                                                 | 100 | QPSK135_69 | 509202/2546.01 | 100%       | 0.183          | -0.06            | 19.66                | 21.00              | 1.361         | <b>0.249</b>          | 22.1             |
| Left side                                                 | 100 | QPSK135_69 | 509202/2546.01 | 100%       | 0.176          | -0.07            | 19.66                | 21.00              | 1.361         | 0.240                 | 22.1             |
| Top side                                                  | 100 | QPSK135_69 | 509202/2546.01 | 100%       | 0.018          | -0.02            | 19.66                | 21.00              | 1.361         | 0.025                 | 22.1             |
| Ant 23 Test Record                                        |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                             | BW. | Test mode  | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                                 |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                                | 100 | QPSK1_1    | 509202/2546.01 | 100%       | 0.591          | 0.10             | 17.94                | 18.50              | 1.138         | 0.672                 | 22.1             |
| Left tilted                                               | 100 | QPSK1_1    | 509202/2546.01 | 100%       | 0.130          | 0.02             | 17.94                | 18.50              | 1.138         | 0.148                 | 22.1             |
| Right cheek                                               | 100 | QPSK1_1    | 509202/2546.01 | 100%       | 0.105          | 0.08             | 17.94                | 18.50              | 1.138         | 0.119                 | 22.1             |
| Right tilted                                              | 100 | QPSK1_1    | 509202/2546.01 | 100%       | 0.039          | 0.07             | 17.94                | 18.50              | 1.138         | 0.044                 | 22.1             |
| Left cheek                                                | 100 | QPSK1_1    | 513900/2569.5  | 100%       | 0.775          | 0.07             | 17.89                | 18.50              | 1.151         | <b>0.892</b>          | 22.1             |
| Head Test Data(50%RB) DSI 2                               |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                                | 100 | QPSK135_69 | 509202/2546.01 | 100%       | 0.478          | 0.09             | 17.78                | 18.50              | 1.180         | 0.564                 | 22.1             |
| Left tilted                                               | 100 | QPSK135_69 | 509202/2546.01 | 100%       | 0.127          | 0.05             | 17.78                | 18.50              | 1.180         | 0.150                 | 22.1             |
| Right cheek                                               | 100 | QPSK135_69 | 509202/2546.01 | 100%       | 0.124          | 0.00             | 17.78                | 18.50              | 1.180         | 0.146                 | 22.1             |
| Right tilted                                              | 100 | QPSK135_69 | 509202/2546.01 | 100%       | 0.044          | 0.01             | 17.78                | 18.50              | 1.180         | 0.052                 | 22.1             |
| Head Test Data(100%RB) DSI 2                              |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                                | 100 | QPSK270_0  | 509202/2546.01 | 100%       | 0.504          | 0.07             | 16.73                | 17.50              | 1.194         | 0.602                 | 22.1             |
| Head Test Data(1RB) with Simultaneous transmission DSI 3* |     |            |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                                | 100 | QPSK1_1    | 509202/2546.01 | 100%       | 0.591          | 0.10             | 17.94                | 17.50              | 0.904         | 0.534                 | 22.1             |



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|                                                              |     |            |                |      |       |       |       |       |       |       |      |
|--------------------------------------------------------------|-----|------------|----------------|------|-------|-------|-------|-------|-------|-------|------|
| Left tilted                                                  | 100 | QPSK1_1    | 509202/2546.01 | 100% | 0.130 | 0.02  | 17.94 | 17.50 | 0.904 | 0.117 | 22.1 |
| Right cheek                                                  | 100 | QPSK1_1    | 509202/2546.01 | 100% | 0.105 | 0.08  | 17.94 | 17.50 | 0.904 | 0.095 | 22.1 |
| Right tilted                                                 | 100 | QPSK1_1    | 509202/2546.01 | 100% | 0.039 | 0.07  | 17.94 | 17.50 | 0.904 | 0.035 | 22.1 |
| Left cheek                                                   | 100 | QPSK1_1    | 513900/2569.5  | 100% | 0.775 | 0.07  | 17.89 | 17.50 | 0.914 | 0.708 | 22.1 |
| Head Test Data(50%RB) with Simultaneous transmission DSI 3*  |     |            |                |      |       |       |       |       |       |       |      |
| Left cheek                                                   | 100 | QPSK135_69 | 509202/2546.01 | 100% | 0.478 | 0.09  | 17.78 | 17.50 | 0.938 | 0.448 | 22.1 |
| Left tilted                                                  | 100 | QPSK135_69 | 509202/2546.01 | 100% | 0.127 | 0.05  | 17.78 | 17.50 | 0.938 | 0.119 | 22.1 |
| Right cheek                                                  | 100 | QPSK135_69 | 509202/2546.01 | 100% | 0.124 | 0.00  | 17.78 | 17.50 | 0.938 | 0.116 | 22.1 |
| Right tilted                                                 | 100 | QPSK135_69 | 509202/2546.01 | 100% | 0.044 | 0.01  | 17.78 | 17.50 | 0.938 | 0.041 | 22.1 |
| Head Test Data(100%RB) with Simultaneous transmission DSI 3* |     |            |                |      |       |       |       |       |       |       |      |
| Left cheek                                                   | 100 | QPSK270_0  | 509202/2546.01 | 100% | 0.504 | 0.07  | 16.73 | 16.50 | 0.948 | 0.478 | 22.1 |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7               |     |            |                |      |       |       |       |       |       |       |      |
| Front side                                                   | 100 | QPSK1_1    | 509202/2546.01 | 100% | 0.053 | -0.06 | 20.86 | 21.50 | 1.159 | 0.061 | 22.1 |
| Back side                                                    | 100 | QPSK1_1    | 509202/2546.01 | 100% | 0.067 | -0.02 | 20.86 | 21.50 | 1.159 | 0.078 | 22.1 |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7             |     |            |                |      |       |       |       |       |       |       |      |
| Front side                                                   | 100 | QPSK135_69 | 509202/2546.01 | 100% | 0.049 | 0.09  | 20.73 | 21.50 | 1.194 | 0.058 | 22.1 |
| Back side                                                    | 100 | QPSK135_69 | 509202/2546.01 | 100% | 0.083 | -0.05 | 20.73 | 21.50 | 1.194 | 0.099 | 22.1 |
| Hotspot Test data(Separate 10mm 1RB) DSI 6                   |     |            |                |      |       |       |       |       |       |       |      |
| Front side                                                   | 100 | QPSK1_1    | 509202/2546.01 | 100% | 0.092 | 0.04  | 19.40 | 20.00 | 1.148 | 0.105 | 22.1 |
| Back side                                                    | 100 | QPSK1_1    | 509202/2546.01 | 100% | 0.141 | 0.03  | 19.40 | 20.00 | 1.148 | 0.162 | 22.1 |
| Right side                                                   | 100 | QPSK1_1    | 509202/2546.01 | 100% | 0.196 | -0.03 | 19.40 | 20.00 | 1.148 | 0.225 | 22.1 |
| Top side                                                     | 100 | QPSK1_1    | 509202/2546.01 | 100% | 0.032 | 0.09  | 19.40 | 20.00 | 1.148 | 0.037 | 22.1 |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6                 |     |            |                |      |       |       |       |       |       |       |      |
| Front side                                                   | 100 | QPSK135_69 | 509202/2546.01 | 100% | 0.075 | -0.08 | 19.23 | 20.00 | 1.194 | 0.090 | 22.1 |
| Back side                                                    | 100 | QPSK135_69 | 509202/2546.01 | 100% | 0.126 | -0.05 | 19.23 | 20.00 | 1.194 | 0.150 | 22.1 |
| Right side                                                   | 100 | QPSK135_69 | 509202/2546.01 | 100% | 0.146 | 0.08  | 19.23 | 20.00 | 1.194 | 0.174 | 22.1 |
| Top side                                                     | 100 | QPSK135_69 | 509202/2546.01 | 100% | 0.031 | -0.04 | 19.23 | 20.00 | 1.194 | 0.037 | 22.1 |

Table 29: SAR of 5G NR n41 for Head and Body.

Note: \* The simultaneous transmission is reduced by XdB (the detailed power reduced can be referred to Conducted Power Appendix E), therefore, those SAR of simultaneous transmission mode are scaled based on standalone SAR results.



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## 8.2.20 SAR Result of 5G NR n66

| Ant 15 Test Record                               |     |             |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------------|-----|-------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                                    | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK 1_1    | 346000/1730    | 100%       | 0.095          | -0.07            | 21.73                | 22.50              | 1.194         | 0.113                 | 22.1             |
| Back side                                        | 40  | QPSK 1_1    | 346000/1730    | 100%       | 0.300          | 0.08             | 21.73                | 22.50              | 1.194         | 0.358                 | 22.1             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK 108_54 | 346000/1730    | 100%       | 0.148          | -0.07            | 21.63                | 22.50              | 1.222         | 0.181                 | 22.1             |
| Back side                                        | 40  | QPSK 108_54 | 346000/1730    | 100%       | 0.305          | 0.06             | 21.63                | 22.50              | 1.222         | 0.373                 | 22.1             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK 1_1    | 346000/1730    | 100%       | 0.240          | -0.10            | 19.78                | 20.50              | 1.180         | 0.283                 | 22.1             |
| Back side                                        | 40  | QPSK 1_1    | 346000/1730    | 100%       | 0.316          | -0.08            | 19.78                | 20.50              | 1.180         | 0.373                 | 22.1             |
| Left side                                        | 40  | QPSK 1_1    | 346000/1730    | 100%       | 0.100          | 0.04             | 19.78                | 20.50              | 1.180         | 0.118                 | 22.1             |
| Top side                                         | 40  | QPSK 1_1    | 346000/1730    | 100%       | 0.344          | 0.12             | 19.78                | 20.50              | 1.180         | 0.406                 | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK 108_54 | 352000/1760    | 100%       | 0.244          | 0.19             | 19.67                | 20.50              | 1.211         | 0.295                 | 22.1             |
| Back side                                        | 40  | QPSK 108_54 | 352000/1760    | 100%       | 0.370          | -0.05            | 19.67                | 20.50              | 1.211         | 0.448                 | 22.1             |
| Left side                                        | 40  | QPSK 108_54 | 352000/1760    | 100%       | 0.085          | 0.07             | 19.67                | 20.50              | 1.211         | 0.102                 | 22.1             |
| Top side                                         | 40  | QPSK 108_54 | 352000/1760    | 100%       | 0.343          | -0.05            | 19.67                | 20.50              | 1.211         | 0.415                 | 22.1             |
| Ant 31 Test Record                               |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 40  | QPSK 1_1    | 346000/1730    | 100%       | 0.135          | 0.02             | 24.11                | 24.50              | 1.094         | 0.148                 | 22.1             |
| Left tilted                                      | 40  | QPSK 1_1    | 346000/1730    | 100%       | 0.049          | 0.08             | 24.11                | 24.50              | 1.094         | 0.053                 | 22.1             |
| Right cheek                                      | 40  | QPSK 1_1    | 346000/1730    | 100%       | 0.083          | 0.07             | 24.11                | 24.50              | 1.094         | 0.091                 | 22.1             |
| Right tilted                                     | 40  | QPSK 1_1    | 346000/1730    | 100%       | 0.041          | -0.07            | 24.11                | 24.50              | 1.094         | 0.045                 | 22.1             |
| Head Test Data(50%RB) DSI 2                      |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 40  | QPSK 108_54 | 349000/1745    | 100%       | 0.137          | 0.02             | 24.12                | 24.50              | 1.091         | 0.150                 | 22.1             |
| Left tilted                                      | 40  | QPSK 108_54 | 349000/1745    | 100%       | 0.060          | 0.04             | 24.12                | 24.50              | 1.091         | 0.066                 | 22.1             |
| Right cheek                                      | 40  | QPSK 108_54 | 349000/1745    | 100%       | 0.103          | -0.02            | 24.12                | 24.50              | 1.091         | 0.112                 | 22.1             |
| Right tilted                                     | 40  | QPSK 108_54 | 349000/1745    | 100%       | 0.051          | 0.06             | 24.12                | 24.50              | 1.091         | 0.056                 | 22.1             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK 1_1    | 346000/1730    | 100%       | 0.310          | -0.14            | 22.19                | 22.50              | 1.074         | 0.333                 | 22.1             |
| Back side                                        | 40  | QPSK 1_1    | 346000/1730    | 100%       | 0.334          | -0.12            | 22.19                | 22.50              | 1.074         | 0.359                 | 22.1             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK 108_54 | 349000/1745    | 100%       | 0.313          | -0.08            | 22.15                | 22.50              | 1.084         | 0.339                 | 22.1             |
| Back side                                        | 40  | QPSK 108_54 | 349000/1745    | 100%       | 0.414          | -0.06            | 22.15                | 22.50              | 1.084         | <b>0.449</b>          | 22.1             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK 1_1    | 346000/1730    | 100%       | 0.258          | 0.12             | 19.17                | 19.50              | 1.079         | 0.278                 | 22.1             |
| Back side                                        | 40  | QPSK 1_1    | 346000/1730    | 100%       | 0.307          | -0.04            | 19.17                | 19.50              | 1.079         | 0.331                 | 22.1             |
| Right side                                       | 40  | QPSK 1_1    | 346000/1730    | 100%       | 0.077          | -0.02            | 19.17                | 19.50              | 1.079         | 0.083                 | 22.1             |
| Bottom side                                      | 40  | QPSK 1_1    | 346000/1730    | 100%       | 0.359          | 0.18             | 19.17                | 19.50              | 1.079         | 0.387                 | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 40  | QPSK 108_54 | 349000/1745    | 100%       | 0.310          | -0.05            | 19.12                | 19.50              | 1.091         | 0.338                 | 22.1             |
| Back side                                        | 40  | QPSK 108_54 | 349000/1745    | 100%       | 0.373          | -0.17            | 19.12                | 19.50              | 1.091         | 0.407                 | 22.1             |
| Right side                                       | 40  | QPSK 108_54 | 349000/1745    | 100%       | 0.083          | -0.18            | 19.12                | 19.50              | 1.091         | 0.090                 | 22.1             |
| Bottom side                                      | 40  | QPSK 108_54 | 349000/1745    | 100%       | 0.471          | 0.13             | 19.12                | 19.50              | 1.091         | <b>0.514</b>          | 22.1             |



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| NSA N66 SAR Test Record                        |     |             |                |            |                |                  |                      |                    |               |                       |                  |
|------------------------------------------------|-----|-------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Ant 12 Test Record                             |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                  | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                      |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                     | 40  | QPSK 1_214  | 349000/1745    | 100%       | 0.052          | 0.05             | 22.88                | 24.50              | 1.452         | 0.076                 | 22.1             |
| Left tilted                                    | 40  | QPSK 1_214  | 349000/1745    | 100%       | 0.030          | 0.06             | 22.88                | 24.50              | 1.452         | 0.044                 | 22.1             |
| Right cheek                                    | 40  | QPSK 1_214  | 349000/1745    | 100%       | 0.274          | 0.09             | 22.88                | 24.50              | 1.452         | 0.398                 | 22.1             |
| Right tilted                                   | 40  | QPSK 1_214  | 349000/1745    | 100%       | 0.076          | 0.05             | 22.88                | 24.50              | 1.452         | 0.111                 | 22.1             |
| Head Test Data(50%RB) DSI 2                    |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                     | 40  | QPSK 108_54 | 352000/1760    | 100%       | 0.062          | 0.16             | 22.86                | 24.50              | 1.459         | 0.091                 | 22.1             |
| Left tilted                                    | 40  | QPSK 108_54 | 352000/1760    | 100%       | 0.034          | 0.09             | 22.86                | 24.50              | 1.459         | 0.049                 | 22.1             |
| Right cheek                                    | 40  | QPSK 108_54 | 352000/1760    | 100%       | 0.287          | 0.04             | 22.86                | 24.50              | 1.459         | <b>0.419</b>          | 22.1             |
| Right tilted                                   | 40  | QPSK 108_54 | 352000/1760    | 100%       | 0.070          | 0.09             | 22.86                | 24.50              | 1.459         | 0.101                 | 22.1             |
| Body worn Test data(Separate 15mm 1RB) DSI 7   |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                     | 40  | QPSK 1_214  | 349000/1745    | 100%       | 0.019          | 0.03             | 22.88                | 24.50              | 1.452         | 0.028                 | 22.1             |
| Back side                                      | 40  | QPSK 1_214  | 349000/1745    | 100%       | 0.043          | 0.01             | 22.88                | 24.50              | 1.452         | 0.063                 | 22.1             |
| Body worn Test data(Separate 15mm 50%RB) DSI 7 |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                     | 40  | QPSK 108_54 | 352000/1760    | 100%       | 0.019          | 0.13             | 22.86                | 24.50              | 1.459         | 0.028                 | 22.1             |
| Back side                                      | 40  | QPSK 108_54 | 352000/1760    | 100%       | 0.043          | 0.03             | 22.86                | 24.50              | 1.459         | 0.063                 | 22.1             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6     |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                     | 40  | QPSK 1_214  | 349000/1745    | 100%       | 0.040          | 0.01             | 22.88                | 24.50              | 1.452         | 0.057                 | 22.1             |
| Back side                                      | 40  | QPSK 1_214  | 349000/1745    | 100%       | 0.104          | 0.08             | 22.88                | 24.50              | 1.452         | 0.151                 | 22.1             |
| Left side                                      | 40  | QPSK 1_214  | 349000/1745    | 100%       | 0.109          | 0.04             | 22.88                | 24.50              | 1.452         | 0.158                 | 22.1             |
| Top side                                       | 40  | QPSK 1_214  | 349000/1745    | 100%       | 0.017          | 0.03             | 22.88                | 24.50              | 1.452         | 0.024                 | 22.1             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6   |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                     | 40  | QPSK 108_54 | 352000/1760    | 100%       | 0.038          | 0.04             | 22.86                | 24.50              | 1.459         | 0.056                 | 22.1             |
| Back side                                      | 40  | QPSK 108_54 | 352000/1760    | 100%       | 0.100          | 0.09             | 22.86                | 24.50              | 1.459         | 0.146                 | 22.1             |
| Left side                                      | 40  | QPSK 108_54 | 352000/1760    | 100%       | 0.110          | 0.08             | 22.86                | 24.50              | 1.459         | 0.160                 | 22.1             |
| Top side                                       | 40  | QPSK 108_54 | 352000/1760    | 100%       | 0.014          | 0.09             | 22.86                | 24.50              | 1.459         | 0.021                 | 22.1             |

Table 30: SAR of 5G NR n66 for Head and Body.



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## 8.2.21 SAR Result of 5G NR n77

| N77 (3450-3550) SAR Test Record                                         |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
|-------------------------------------------------------------------------|-----|-------------|----------------|------------|-----------------|------------------|----------------------|--------------------|---------------|------------------------|------------------|
| Ant 13 Test Record                                                      |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Test position                                                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g  | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg)  | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                                               |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                              | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.184           | 0.08             | 17.98                | 18.50              | 1.127         | 0.207                  | 22.2             |
| Left tilted                                                             | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.197           | 0.08             | 17.98                | 18.50              | 1.127         | 0.222                  | 22.2             |
| Right cheek                                                             | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.525           | 0.06             | 17.98                | 18.50              | 1.127         | 0.592                  | 22.2             |
| Right tilted                                                            | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.475           | 0.03             | 17.98                | 18.50              | 1.127         | 0.535                  | 22.2             |
| Head Test Data(50%RB) DSI 2                                             |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                              | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.118           | 0.05             | 17.84                | 18.50              | 1.164         | 0.137                  | 22.2             |
| Left tilted                                                             | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.162           | 0.08             | 17.84                | 18.50              | 1.164         | 0.189                  | 22.2             |
| Right cheek                                                             | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.358           | 0.09             | 17.84                | 18.50              | 1.164         | 0.417                  | 22.2             |
| Right tilted                                                            | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.451           | 0.02             | 17.84                | 18.50              | 1.164         | 0.525                  | 22.2             |
| Body worn Test data(Separate 15mm 1RB) DSI 7                            |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.177           | 0.06             | 23.93                | 24.50              | 1.140         | 0.202                  | 22.2             |
| Back side                                                               | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.459           | -0.12            | 23.93                | 24.50              | 1.140         | 0.523                  | 22.2             |
| Body worn Test data(Separate 15mm 50%RB) DSI 7                          |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.159           | 0.09             | 23.81                | 24.50              | 1.172         | 0.186                  | 22.2             |
| Back side                                                               | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.378           | 0.06             | 23.81                | 24.50              | 1.172         | 0.443                  | 22.2             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6                              |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.050           | 0.01             | 16.03                | 16.50              | 1.114         | 0.056                  | 22.2             |
| Back side                                                               | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.145           | 0.09             | 16.03                | 16.50              | 1.114         | 0.162                  | 22.2             |
| Left side                                                               | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.251           | 0.02             | 16.03                | 16.50              | 1.114         | 0.280                  | 22.2             |
| Top side                                                                | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.153           | 0.04             | 16.03                | 16.50              | 1.114         | 0.170                  | 22.2             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6                            |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.045           | 0.02             | 15.89                | 16.50              | 1.151         | 0.052                  | 22.2             |
| Back side                                                               | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.132           | 0.15             | 15.89                | 16.50              | 1.151         | 0.152                  | 22.2             |
| Left side                                                               | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.169           | 0.08             | 15.89                | 16.50              | 1.151         | 0.194                  | 22.2             |
| Top side                                                                | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.104           | 0.07             | 15.89                | 16.50              | 1.151         | 0.120                  | 22.2             |
| Test position                                                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Product specific 10g SAR Test data(Separate 0mm 1RB) Sensor on DSI 4    |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left side                                                               | 100 | QPSK 1 271  | 633334/3500    | 100%       | 2.220           | 0.09             | 17.44                | 18.00              | 1.138         | 2.526                  | 22.2             |
| Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 4 |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left side                                                               | 100 | QPSK 135 69 | 633334/3500    | 100%       | 1.850           | 0.18             | 17.36                | 18.00              | 1.159         | 2.144                  | 22.2             |
| Product specific 10g SAR Test data(Separate 0mm 100%RB) Sensor on DSI 4 |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left side                                                               | 100 | QPSK 270 0  | 633334/3500    | 100%       | 1.310           | 0.01             | 16.34                | 17.00              | 1.164         | 1.525                  | 22.2             |
| Product specific 10g SAR Test data(Separate 1RB) Sensor off DSI 7       |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left side 12mm                                                          | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.552           | 0.02             | 23.93                | 24.50              | 1.140         | 0.629                  | 22.2             |
| Product specific 10g SAR Test data (Separate 50%RB) Sensor off DSI 7    |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left side 12mm                                                          | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.676           | 0.14             | 23.81                | 24.50              | 1.172         | 0.792                  | 22.2             |
| Ant 23 Test Record                                                      |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Test position                                                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g  | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg)  | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                                               |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                              | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.397           | 0.09             | 17.38                | 18.00              | 1.153         | 0.458                  | 22.2             |
| Left tilted                                                             | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.232           | 0.09             | 17.38                | 18.00              | 1.153         | 0.268                  | 22.2             |
| Right cheek                                                             | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.092           | 0.03             | 17.38                | 18.00              | 1.153         | 0.106                  | 22.2             |
| Right tilted                                                            | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.085           | 0.02             | 17.38                | 18.00              | 1.153         | 0.097                  | 22.2             |
| Head Test Data(50%RB) DSI 2                                             |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                              | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.238           | 0.04             | 17.13                | 18.00              | 1.222         | 0.291                  | 22.2             |
| Left tilted                                                             | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.147           | 0.07             | 17.13                | 18.00              | 1.222         | 0.180                  | 22.2             |
| Right cheek                                                             | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.053           | 0.06             | 17.13                | 18.00              | 1.222         | 0.065                  | 22.2             |
| Right tilted                                                            | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.052           | 0.08             | 17.13                | 18.00              | 1.222         | 0.063                  | 22.2             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7                          |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.029           | 0.01             | 18.86                | 19.50              | 1.159         | 0.034                  | 22.2             |



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| Back side                                        | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.076          | 0.09             | 18.86                | 19.50              | 1.159         | 0.088                 | 22.2             |
|--------------------------------------------------|-----|-------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.025          | 0.09             | 18.66                | 19.50              | 1.213         | 0.030                 | 22.2             |
| Back side                                        | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.064          | 0.07             | 18.66                | 19.50              | 1.213         | 0.078                 | 22.2             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.068          | 0.06             | 17.38                | 18.00              | 1.153         | 0.078                 | 22.2             |
| Back side                                        | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.192          | 0.08             | 17.38                | 18.00              | 1.153         | 0.221                 | 22.2             |
| Right side                                       | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.261          | 0.04             | 17.38                | 18.00              | 1.153         | <b>0.301</b>          | 22.2             |
| Top side                                         | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.048          | 0.04             | 17.38                | 18.00              | 1.153         | 0.055                 | 22.2             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.058          | -0.08            | 17.13                | 18.00              | 1.222         | 0.071                 | 22.2             |
| Back side                                        | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.162          | 0.03             | 17.13                | 18.00              | 1.222         | 0.198                 | 22.2             |
| Right side                                       | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.162          | 0.01             | 17.13                | 18.00              | 1.222         | 0.198                 | 22.2             |
| Top side                                         | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.046          | 0.08             | 17.13                | 18.00              | 1.222         | 0.057                 | 22.2             |
| <b>Ant 21 Test Record</b>                        |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.151          | 0.07             | 15.80                | 17.20              | 0.117         | 0.018                 | 22.2             |
| Left tilted                                      | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.230          | -0.06            | 15.80                | 17.20              | 0.117         | 0.027                 | 22.2             |
| Right cheek                                      | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.164          | 0.05             | 15.80                | 17.20              | 0.117         | 0.019                 | 22.2             |
| Right tilted                                     | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.184          | 0.08             | 15.80                | 17.20              | 0.117         | 0.022                 | 22.2             |
| Head Test Data(50%RB) DSI 2                      |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.140          | 0.04             | 15.79                | 17.20              | 0.118         | 0.016                 | 22.2             |
| Left tilted                                      | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.141          | 0.01             | 15.79                | 17.20              | 0.118         | 0.017                 | 22.2             |
| Right cheek                                      | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.134          | 0.08             | 15.79                | 17.20              | 0.118         | 0.016                 | 22.2             |
| Right tilted                                     | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.162          | 0.09             | 15.79                | 17.20              | 0.118         | 0.019                 | 22.2             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.041          | 0.09             | 19.30                | 20.70              | 0.117         | 0.005                 | 22.2             |
| Back side                                        | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.049          | 0.09             | 19.30                | 20.70              | 0.117         | 0.006                 | 22.2             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.032          | 0.06             | 19.26                | 20.70              | 0.118         | 0.004                 | 22.2             |
| Back side                                        | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.037          | -0.05            | 19.26                | 20.70              | 0.118         | 0.004                 | 22.2             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 1 271  | 633334/3500    | 8.5%       | 0.082          | -0.02            | 17.84                | 19.20              | 0.116         | 0.009                 | 22.2             |
| Back side                                        | 100 | QPSK 1 271  | 633334/3500    | 8.5%       | 0.076          | 0.09             | 17.84                | 19.20              | 0.116         | 0.009                 | 22.2             |
| Left side                                        | 100 | QPSK 1 271  | 633334/3500    | 8.5%       | 0.015          | 0.08             | 17.84                | 19.20              | 0.116         | 0.002                 | 22.2             |
| Right side                                       | 100 | QPSK 1 271  | 633334/3500    | 8.5%       | 0.004          | 0.10             | 17.84                | 19.20              | 0.116         | 0.000                 | 22.2             |
| Top side                                         | 100 | QPSK 1 271  | 633334/3500    | 8.5%       | 0.176          | 0.07             | 17.84                | 19.20              | 0.116         | 0.020                 | 22.2             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.080          | 0.08             | 17.78                | 19.20              | 0.118         | 0.009                 | 22.2             |
| Back side                                        | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.084          | -0.01            | 17.78                | 19.20              | 0.118         | 0.010                 | 22.2             |
| Left side                                        | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.014          | -0.03            | 17.78                | 19.20              | 0.118         | 0.002                 | 22.2             |
| Right side                                       | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.001          | 0.09             | 17.78                | 19.20              | 0.118         | 0.000                 | 22.2             |
| Top side                                         | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.144          | 0.06             | 17.78                | 19.20              | 0.118         | 0.017                 | 22.2             |
| <b>Ant 14 Test Record</b>                        |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.230          | -0.04            | 14.48                | 16.00              | 0.121         | 0.028                 | 22.2             |
| Left tilted                                      | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.212          | 0.07             | 14.48                | 16.00              | 0.121         | 0.026                 | 22.2             |
| Right cheek                                      | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.688          | -0.06            | 14.48                | 16.00              | 0.121         | 0.083                 | 22.2             |
| Right tilted                                     | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.659          | 0.02             | 14.48                | 16.00              | 0.121         | 0.079                 | 22.2             |
| Head Test Data(50%RB) DSI 2                      |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.187          | -0.05            | 14.39                | 16.00              | 0.123         | 0.023                 | 22.2             |
| Left tilted                                      | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.216          | 0.07             | 14.39                | 16.00              | 0.123         | 0.027                 | 22.2             |
| Right cheek                                      | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.577          | 0.05             | 14.39                | 16.00              | 0.123         | 0.071                 | 22.2             |
| Right tilted                                     | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.562          | 0.04             | 14.39                | 16.00              | 0.123         | 0.069                 | 22.2             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.244          | 0.04             | 21.34                | 23.00              | 0.125         | 0.030                 | 22.2             |
| Back side                                        | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.275          | -0.05            | 21.34                | 23.00              | 0.125         | 0.034                 | 22.2             |



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| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |             |             |      |       |      |       |       |       |       |      |
|--------------------------------------------------|-----|-------------|-------------|------|-------|------|-------|-------|-------|-------|------|
| Front side                                       | 100 | QPSK 135 69 | 633334/3500 | 8.5% | 0.253 | 0.08 | 21.31 | 23.00 | 0.125 | 0.032 | 22.2 |
| Back side                                        | 100 | QPSK 135 69 | 633334/3500 | 8.5% | 0.342 | 0.09 | 21.31 | 23.00 | 0.125 | 0.043 | 22.2 |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |             |             |      |       |      |       |       |       |       |      |
| Front side                                       | 100 | QPSK 1 137  | 633334/3500 | 8.5% | 0.347 | 0.03 | 19.89 | 21.50 | 0.123 | 0.043 | 22.2 |
| Back side                                        | 100 | QPSK 1 137  | 633334/3500 | 8.5% | 0.368 | 0.04 | 19.89 | 21.50 | 0.123 | 0.045 | 22.2 |
| Left side                                        | 100 | QPSK 1 137  | 633334/3500 | 8.5% | 0.190 | 0.05 | 19.89 | 21.50 | 0.123 | 0.023 | 22.2 |
| Top side                                         | 100 | QPSK 1 137  | 633334/3500 | 8.5% | 0.561 | 0.05 | 19.89 | 21.50 | 0.123 | 0.069 | 22.2 |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |             |             |      |       |      |       |       |       |       |      |
| Front side                                       | 100 | QPSK 135 69 | 633334/3500 | 8.5% | 0.337 | 0.03 | 19.84 | 21.50 | 0.125 | 0.042 | 22.2 |
| Back side                                        | 100 | QPSK 135 69 | 633334/3500 | 8.5% | 0.347 | 0.08 | 19.84 | 21.50 | 0.125 | 0.043 | 22.2 |
| Left side                                        | 100 | QPSK 135 69 | 633334/3500 | 8.5% | 0.190 | 0.05 | 19.84 | 21.50 | 0.125 | 0.024 | 22.2 |
| Top side                                         | 100 | QPSK 135 69 | 633334/3500 | 8.5% | 0.469 | 0.06 | 19.84 | 21.50 | 0.125 | 0.058 | 22.2 |

| N77 (3700-3980) SAR Test Record                                         |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
|-------------------------------------------------------------------------|-----|-------------|----------------|------------|-----------------|------------------|----------------------|--------------------|---------------|------------------------|------------------|
| Ant 13 Test Record                                                      |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Test position                                                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g  | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg)  | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                                               |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                              | 100 | QPSK 1 271  | 652400/3786    | 100%       | 0.102           | 0.06             | 18.06                | 18.50              | 1.107         | 0.113                  | 22.3             |
| Left tilted                                                             | 100 | QPSK 1 271  | 652400/3786    | 100%       | 0.110           | 0.15             | 18.06                | 18.50              | 1.107         | 0.122                  | 22.3             |
| Right cheek                                                             | 100 | QPSK 1 271  | 652400/3786    | 100%       | 0.350           | 0.01             | 18.06                | 18.50              | 1.107         | 0.387                  | 22.3             |
| Right tilted                                                            | 100 | QPSK 1 271  | 652400/3786    | 100%       | 0.277           | 0.02             | 18.06                | 18.50              | 1.107         | 0.307                  | 22.3             |
| Head Test Data(50%RB) DSI 2                                             |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                              | 100 | QPSK 135 69 | 659600/3894    | 100%       | 0.090           | 0.01             | 18.03                | 18.50              | 1.114         | 0.101                  | 22.3             |
| Left tilted                                                             | 100 | QPSK 135 69 | 659600/3894    | 100%       | 0.096           | 0.02             | 18.03                | 18.50              | 1.114         | 0.106                  | 22.3             |
| Right cheek                                                             | 100 | QPSK 135 69 | 659600/3894    | 100%       | 0.272           | 0.01             | 18.03                | 18.50              | 1.114         | 0.303                  | 22.3             |
| Right tilted                                                            | 100 | QPSK 135 69 | 659600/3894    | 100%       | 0.276           | 0.01             | 18.03                | 18.50              | 1.114         | 0.308                  | 22.3             |
| Body worn Test data(Separate 15mm 1RB) DSI 7                            |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 1 271  | 652400/3786    | 100%       | 0.110           | 0.05             | 24.03                | 24.50              | 1.114         | 0.123                  | 22.3             |
| Back side                                                               | 100 | QPSK 1 271  | 652400/3786    | 100%       | 0.417           | 0.07             | 24.03                | 24.50              | 1.114         | 0.465                  | 22.3             |
| Back side                                                               | 100 | QPSK 1 137  | 657200/3858    | 100%       | 0.344           | 0.07             | 24.00                | 24.50              | 1.122         | 0.386                  | 22.3             |
| Body worn Test data(Separate 15mm 50%RB) DSI 7                          |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 135 69 | 659600/3894    | 100%       | 0.094           | 0.05             | 24.01                | 24.50              | 1.119         | 0.105                  | 22.3             |
| Back side                                                               | 100 | QPSK 135 69 | 659600/3894    | 100%       | 0.354           | 0.06             | 24.01                | 24.50              | 1.119         | 0.396                  | 22.3             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6                              |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 1 137  | 659600/3894    | 100%       | 0.031           | 0.09             | 16.07                | 16.50              | 1.104         | 0.035                  | 22.3             |
| Back side                                                               | 100 | QPSK 1 137  | 659600/3894    | 100%       | 0.137           | 0.03             | 16.07                | 16.50              | 1.104         | 0.151                  | 22.3             |
| Left side                                                               | 100 | QPSK 1 137  | 659600/3894    | 100%       | 0.211           | 0.03             | 16.07                | 16.50              | 1.104         | 0.233                  | 22.3             |
| Top side                                                                | 100 | QPSK 1 137  | 659600/3894    | 100%       | 0.081           | 0.09             | 16.07                | 16.50              | 1.104         | 0.089                  | 22.3             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6                            |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 135 69 | 659600/3894    | 100%       | 0.023           | -0.05            | 16.03                | 16.50              | 1.114         | 0.026                  | 22.3             |
| Back side                                                               | 100 | QPSK 135 69 | 659600/3894    | 100%       | 0.107           | 0.04             | 16.03                | 16.50              | 1.114         | 0.119                  | 22.3             |
| Left side                                                               | 100 | QPSK 135 69 | 659600/3894    | 100%       | 0.142           | 0.06             | 16.03                | 16.50              | 1.114         | 0.158                  | 22.3             |
| Top side                                                                | 100 | QPSK 135 69 | 659600/3894    | 100%       | 0.066           | 0.10             | 16.03                | 16.50              | 1.114         | 0.073                  | 22.3             |
| Test position                                                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Product specific 10g SAR Test data(Separate 0mm 1RB) Sensor on DSI 4    |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left side                                                               | 100 | QPSK 1 271  | 654800/3822    | 100%       | 1.200           | 0.09             | 17.55                | 18.00              | 1.109         | 1.331                  | 22.3             |
| Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 4 |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left side                                                               | 100 | QPSK 135 69 | 662000/3930    | 100%       | 1.420           | 0.04             | 17.49                | 18.00              | 1.125         | 1.597                  | 22.3             |
| Product specific 10g SAR Test data(Separate 1RB) Sensor off DSI 7       |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left side 12mm                                                          | 100 | QPSK 1 271  | 652400/3786    | 100%       | 0.439           | 0.09             | 24.03                | 24.50              | 1.114         | 0.489                  | 22.3             |
| Product specific 10g SAR Test data (Separate 50%RB) Sensor off DSI 7    |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left side 12mm                                                          | 100 | QPSK 135 69 | 659600/3894    | 100%       | 0.393           | 0.02             | 24.01                | 24.50              | 1.119         | 0.440                  | 22.3             |
| Ant 23 Test Record                                                      |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Test position                                                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g  | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg)  | Liquid Temp.(°C) |



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| Head Test Data(1RB) DSI 2                        |     |             |                |            |                |                  |                      |                    |               |                       |                  |
|--------------------------------------------------|-----|-------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Left cheek                                       | 100 | QPSK 1 137  | 652400/3786    | 100%       | 0.454          | 0.04             | 17.72                | 18.00              | 1.067         | 0.484                 | 22.3             |
| Left tilted                                      | 100 | QPSK 1 137  | 652400/3786    | 100%       | 0.391          | 0.06             | 17.72                | 18.00              | 1.067         | 0.417                 | 22.3             |
| Right cheek                                      | 100 | QPSK 1 137  | 652400/3786    | 100%       | 0.138          | 0.02             | 17.72                | 18.00              | 1.067         | 0.147                 | 22.3             |
| Right tilted                                     | 100 | QPSK 1 137  | 652400/3786    | 100%       | 0.151          | 0.09             | 17.72                | 18.00              | 1.067         | 0.161                 | 22.3             |
| Left cheek                                       | 100 | QPSK 1 137  | 657200/3858    | 100%       | 0.567          | 0.18             | 17.69                | 18.00              | 1.074         | <b>0.609</b>          | 22.3             |
| Left cheek                                       | 100 | QPSK 1 1    | 654800/3822    | 100%       | 0.495          | 0.19             | 17.67                | 18.00              | 1.079         | 0.534                 | 22.3             |
| Left tilted                                      | 100 | QPSK 1 137  | 657200/3858    | 100%       | 0.455          | 0.08             | 17.69                | 18.00              | 1.074         | 0.489                 | 22.3             |
| Head Test Data(50%RB) DSI 2                      |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 100 | QPSK 135 69 | 654800/3822    | 100%       | 0.529          | 0.07             | 17.65                | 18.00              | 1.084         | 0.573                 | 22.3             |
| Left tilted                                      | 100 | QPSK 135 69 | 654800/3822    | 100%       | 0.373          | 0.03             | 17.65                | 18.00              | 1.084         | 0.404                 | 22.3             |
| Right cheek                                      | 100 | QPSK 135 69 | 654800/3822    | 100%       | 0.145          | 0.07             | 17.65                | 18.00              | 1.084         | 0.157                 | 22.3             |
| Right tilted                                     | 100 | QPSK 135 69 | 654800/3822    | 100%       | 0.138          | 0.06             | 17.65                | 18.00              | 1.084         | 0.150                 | 22.3             |
| Left cheek                                       | 100 | QPSK 135 69 | 652400/3786    | 100%       | 0.532          | 0.10             | 17.64                | 18.00              | 1.086         | 0.578                 | 22.3             |
| Left tilted                                      | 100 | QPSK 135 69 | 652400/3786    | 100%       | 0.473          | 0.06             | 17.64                | 18.00              | 1.086         | 0.514                 | 22.3             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 1 137  | 652400/3786    | 100%       | 0.092          | 0.14             | 19.20                | 19.50              | 1.072         | 0.099                 | 22.3             |
| Back side                                        | 100 | QPSK 1 137  | 652400/3786    | 100%       | 0.269          | 0.09             | 19.20                | 19.50              | 1.072         | 0.288                 | 22.3             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 135 69 | 652400/3786    | 100%       | 0.091          | 0.03             | 19.13                | 19.50              | 1.089         | 0.100                 | 22.3             |
| Back side                                        | 100 | QPSK 135 69 | 652400/3786    | 100%       | 0.219          | -0.01            | 19.13                | 19.50              | 1.089         | 0.238                 | 22.3             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 1 137  | 652400/3786    | 100%       | 0.121          | 0.09             | 17.72                | 18.00              | 1.067         | 0.129                 | 22.3             |
| Back side                                        | 100 | QPSK 1 137  | 652400/3786    | 100%       | 0.279          | 0.03             | 17.72                | 18.00              | 1.067         | 0.298                 | 22.3             |
| Right side                                       | 100 | QPSK 1 137  | 652400/3786    | 100%       | 0.274          | 0.08             | 17.72                | 18.00              | 1.067         | 0.292                 | 22.3             |
| Top side                                         | 100 | QPSK 1 137  | 652400/3786    | 100%       | 0.111          | 0.07             | 17.72                | 18.00              | 1.067         | 0.118                 | 22.3             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 135 69 | 654800/3822    | 100%       | 0.115          | 0.02             | 17.65                | 18.00              | 1.084         | 0.125                 | 22.3             |
| Back side                                        | 100 | QPSK 135 69 | 654800/3822    | 100%       | 0.264          | 0.09             | 17.65                | 18.00              | 1.084         | 0.286                 | 22.3             |
| Right side                                       | 100 | QPSK 135 69 | 654800/3822    | 100%       | 0.260          | 0.09             | 17.65                | 18.00              | 1.084         | 0.282                 | 22.3             |
| Top side                                         | 100 | QPSK 135 69 | 654800/3822    | 100%       | 0.107          | 0.06             | 17.65                | 18.00              | 1.084         | 0.116                 | 22.3             |
| Ant 21 Test Record                               |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 100 | QPSK 1 137  | 659600/3894    | 8.5%       | 0.340          | 0.10             | 16.31                | 17.20              | 0.104         | 0.035                 | 22.3             |
| Left tilted                                      | 100 | QPSK 1 137  | 659600/3894    | 8.5%       | 0.384          | 0.08             | 16.31                | 17.20              | 0.104         | 0.040                 | 22.3             |
| Right cheek                                      | 100 | QPSK 1 137  | 659600/3894    | 8.5%       | 0.314          | -0.09            | 16.31                | 17.20              | 0.104         | 0.033                 | 22.3             |
| Right tilted                                     | 100 | QPSK 1 137  | 659600/3894    | 8.5%       | 0.338          | 0.03             | 16.31                | 17.20              | 0.104         | 0.035                 | 22.3             |
| Head Test Data(50%RB) DSI 2                      |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 100 | QPSK 135 69 | 659600/3894    | 8.5%       | 0.345          | 0.06             | 16.33                | 17.20              | 0.104         | 0.036                 | 22.3             |
| Left tilted                                      | 100 | QPSK 135 69 | 659600/3894    | 8.5%       | 0.341          | 0.07             | 16.33                | 17.20              | 0.104         | 0.035                 | 22.3             |
| Right cheek                                      | 100 | QPSK 135 69 | 659600/3894    | 8.5%       | 0.323          | 0.06             | 16.33                | 17.20              | 0.104         | 0.034                 | 22.3             |
| Right tilted                                     | 100 | QPSK 135 69 | 659600/3894    | 8.5%       | 0.369          | 0.04             | 16.33                | 17.20              | 0.104         | 0.038                 | 22.3             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 1 137  | 659600/3894    | 8.5%       | 0.043          | 0.09             | 19.78                | 20.70              | 0.105         | 0.005                 | 22.3             |
| Back side                                        | 100 | QPSK 1 137  | 659600/3894    | 8.5%       | 0.043          | 0.09             | 19.78                | 20.70              | 0.105         | 0.005                 | 22.3             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 135 69 | 657200/3858    | 8.5%       | 0.077          | 0.00             | 19.81                | 20.70              | 0.104         | 0.008                 | 22.3             |
| Back side                                        | 100 | QPSK 135 69 | 657200/3858    | 8.5%       | 0.058          | 0.00             | 19.81                | 20.70              | 0.104         | 0.006                 | 22.3             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 1 137  | 657200/3858    | 8.5%       | 0.102          | 0.00             | 18.28                | 19.20              | 0.105         | 0.011                 | 22.3             |
| Back side                                        | 100 | QPSK 1 137  | 657200/3858    | 8.5%       | 0.093          | 0.09             | 18.28                | 19.20              | 0.105         | 0.010                 | 22.3             |
| Left side                                        | 100 | QPSK 1 137  | 657200/3858    | 8.5%       | 0.015          | 0.09             | 18.28                | 19.20              | 0.105         | 0.002                 | 22.3             |
| Right side                                       | 100 | QPSK 1 137  | 657200/3858    | 8.5%       | 0.031          | 0.09             | 18.28                | 19.20              | 0.105         | 0.003                 | 22.3             |
| Top side                                         | 100 | QPSK 1 137  | 657200/3858    | 8.5%       | 0.298          | 0.08             | 18.28                | 19.20              | 0.105         | 0.031                 | 22.3             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 135 69 | 657200/3858    | 8.5%       | 0.096          | 0.09             | 18.31                | 19.20              | 0.104         | 0.010                 | 22.3             |
| Back side                                        | 100 | QPSK 135 69 | 657200/3858    | 8.5%       | 0.084          | 0.09             | 18.31                | 19.20              | 0.104         | 0.009                 | 22.3             |
| Left side                                        | 100 | QPSK 135 69 | 657200/3858    | 8.5%       | 0.019          | 0.09             | 18.31                | 19.20              | 0.104         | 0.002                 | 22.3             |
| Right side                                       | 100 | QPSK 135 69 | 657200/3858    | 8.5%       | 0.028          | 0.01             | 18.31                | 19.20              | 0.104         | 0.003                 | 22.3             |



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| Top side                                                | 100 | QPSK 135 69 | 657200/3858    | 8.5%       | 0.282          | 0.03             | 18.31                | 19.20              | 0.104         | 0.029                 | 22.3             |
|---------------------------------------------------------|-----|-------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| <b>Ant 14 Test Record</b>                               |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| <b>Head Test Data(1RB) DSI 2</b>                        |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                              | 100 | QPSK 1 271  | 654800/3822    | 8.5%       | 0.132          | -0.05            | 15.01                | 16.00              | 0.107         | 0.014                 | 22.3             |
| Left tilted                                             | 100 | QPSK 1 271  | 654800/3822    | 8.5%       | 0.100          | -0.02            | 15.01                | 16.00              | 0.107         | 0.011                 | 22.3             |
| Right cheek                                             | 100 | QPSK 1 271  | 654800/3822    | 8.5%       | 0.391          | -0.07            | 15.01                | 16.00              | 0.107         | 0.042                 | 22.3             |
| Right tilted                                            | 100 | QPSK 1 271  | 654800/3822    | 8.5%       | 0.331          | 0.15             | 15.01                | 16.00              | 0.107         | 0.035                 | 22.3             |
| <b>Head Test Data(50%RB) DSI 2</b>                      |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                              | 100 | QPSK 135 69 | 657200/3858    | 8.5%       | 0.122          | 0.06             | 14.99                | 16.00              | 0.107         | 0.013                 | 22.3             |
| Left tilted                                             | 100 | QPSK 135 69 | 657200/3858    | 8.5%       | 0.111          | 0.05             | 14.99                | 16.00              | 0.107         | 0.012                 | 22.3             |
| Right cheek                                             | 100 | QPSK 135 69 | 657200/3858    | 8.5%       | 0.347          | 0.05             | 14.99                | 16.00              | 0.107         | 0.037                 | 22.3             |
| Right tilted                                            | 100 | QPSK 135 69 | 657200/3858    | 8.5%       | 0.304          | 0.07             | 14.99                | 16.00              | 0.107         | 0.033                 | 22.3             |
| <b>Body worn Test data(Separate 15mm 1RB) DSI 4/7</b>   |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                              | 100 | QPSK 1 271  | 662000/3930    | 8.5%       | 0.200          | 0.03             | 21.98                | 23.00              | 0.108         | 0.022                 | 22.3             |
| Back side                                               | 100 | QPSK 1 271  | 662000/3930    | 8.5%       | 0.104          | 0.09             | 21.98                | 23.00              | 0.108         | 0.011                 | 22.3             |
| <b>Body worn Test data(Separate 15mm 50%RB) DSI 4/7</b> |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                              | 100 | QPSK 135 69 | 657200/3858    | 8.5%       | 0.110          | 0.06             | 21.96                | 23.00              | 0.108         | 0.012                 | 22.3             |
| Back side                                               | 100 | QPSK 135 69 | 657200/3858    | 8.5%       | 0.084          | 0.00             | 21.96                | 23.00              | 0.108         | 0.009                 | 22.3             |
| <b>Hotspot Test data(Separate 10mm 1RB) DSI 6</b>       |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                              | 100 | QPSK 1 271  | 654800/3822    | 8.5%       | 0.195          | 0.02             | 20.51                | 21.50              | 0.107         | 0.021                 | 22.3             |
| Back side                                               | 100 | QPSK 1 271  | 654800/3822    | 8.5%       | 0.131          | 0.00             | 20.51                | 21.50              | 0.107         | 0.014                 | 22.3             |
| Left side                                               | 100 | QPSK 1 271  | 654800/3822    | 8.5%       | 0.142          | 0.05             | 20.51                | 21.50              | 0.107         | 0.015                 | 22.3             |
| Top side                                                | 100 | QPSK 1 271  | 654800/3822    | 8.5%       | 0.138          | 0.06             | 20.51                | 21.50              | 0.107         | 0.015                 | 22.3             |
| <b>Hotspot Test data(Separate 10mm 50%RB) DSI 6</b>     |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                              | 100 | QPSK 135 69 | 662000/3930    | 8.5%       | 0.264          | 0.09             | 20.48                | 21.50              | 0.108         | 0.028                 | 22.3             |
| Back side                                               | 100 | QPSK 135 69 | 662000/3930    | 8.5%       | 0.136          | 0.00             | 20.48                | 21.50              | 0.108         | 0.015                 | 22.3             |
| Left side                                               | 100 | QPSK 135 69 | 662000/3930    | 8.5%       | 0.157          | 0.05             | 20.48                | 21.50              | 0.108         | 0.017                 | 22.3             |
| Top side                                                | 100 | QPSK 135 69 | 662000/3930    | 8.5%       | 0.174          | 0.06             | 20.48                | 21.50              | 0.108         | 0.019                 | 22.3             |

Table 31: SAR of 5G NR n77 for Head and Body and Product specific 10g SAR.



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## 8.2.22 SAR Result of 5G NR n78

| N78 (3450-3550) SAR Test Record                                         |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
|-------------------------------------------------------------------------|-----|-------------|----------------|------------|-----------------|------------------|----------------------|--------------------|---------------|------------------------|------------------|
| Ant 13 Test Record                                                      |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Test position                                                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g  | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg)  | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                                               |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                              | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.234           | 0.02             | 17.33                | 18.20              | 1.222         | 0.286                  | 22.2             |
| Left tilted                                                             | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.233           | 0.06             | 17.33                | 18.20              | 1.222         | 0.285                  | 22.2             |
| Right cheek                                                             | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.548           | -0.08            | 17.33                | 18.20              | 1.222         | <b>0.670</b>           | 22.2             |
| Right tilted                                                            | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.480           | 0.03             | 17.33                | 18.20              | 1.222         | 0.586                  | 22.2             |
| Head Test Data(50%RB) DSI 2                                             |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                              | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.179           | 0.01             | 17.23                | 18.20              | 1.250         | 0.224                  | 22.2             |
| Left tilted                                                             | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.206           | 0.03             | 17.23                | 18.20              | 1.250         | 0.258                  | 22.2             |
| Right cheek                                                             | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.444           | 0.01             | 17.23                | 18.20              | 1.250         | 0.555                  | 22.2             |
| Right tilted                                                            | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.399           | 0.09             | 17.23                | 18.20              | 1.250         | 0.499                  | 22.2             |
| Body worn Test data(Separate 15mm 1RB) DSI 7                            |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.204           | -0.08            | 24.39                | 25.20              | 1.205         | 0.246                  | 22.2             |
| Back side                                                               | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.653           | -0.02            | 24.39                | 25.20              | 1.205         | 0.787                  | 22.2             |
| Body worn Test data(Separate 15mm 50%RB) DSI 7                          |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.275           | 0.09             | 24.46                | 25.20              | 1.186         | 0.326                  | 22.2             |
| Back side                                                               | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.747           | 0.02             | 24.46                | 25.20              | 1.186         | <b>0.886</b>           | 22.2             |
| Body worn Test data(Separate 15mm 100%RB) DSI 7                         |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Back side                                                               | 100 | QPSK 270 0  | 633334/3500    | 100%       | 0.651           | -0.03            | 23.28                | 24.20              | 1.236         | 0.805                  | 22.2             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6                              |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.076           | 0.06             | 15.97                | 16.70              | 1.183         | 0.090                  | 22.2             |
| Back side                                                               | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.256           | 0.02             | 15.97                | 16.70              | 1.183         | 0.303                  | 22.2             |
| Left side                                                               | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.395           | 0.03             | 15.97                | 16.70              | 1.183         | <b>0.467</b>           | 22.2             |
| Top side                                                                | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.211           | 0.07             | 15.97                | 16.70              | 1.183         | 0.250                  | 22.2             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6                            |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.077           | 0.09             | 15.95                | 16.70              | 1.189         | 0.091                  | 22.2             |
| Back side                                                               | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.208           | 0.04             | 15.95                | 16.70              | 1.189         | 0.247                  | 22.2             |
| Left side                                                               | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.305           | 0.03             | 15.95                | 16.70              | 1.189         | 0.362                  | 22.2             |
| Top side                                                                | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.199           | 0.09             | 15.95                | 16.70              | 1.189         | 0.237                  | 22.2             |
| Test position                                                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Product specific 10g SAR Test data(Separate 0mm 1RB) Sensor on DSI 4    |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Back side                                                               | 100 | QPSK 1 271  | 633334/3500    | 100%       | 1.160           | 0.09             | 17.33                | 18.20              | 1.222         | 1.417                  | 22.2             |
| Left side                                                               | 100 | QPSK 1 271  | 633334/3500    | 100%       | 1.110           | 0.02             | 17.33                | 18.20              | 1.222         | 1.356                  | 22.2             |
| Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 4 |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Back side                                                               | 100 | QPSK 135 69 | 633334/3500    | 100%       | 1.300           | 0.00             | 17.23                | 18.20              | 1.250         | 1.625                  | 22.2             |
| Left side                                                               | 100 | QPSK 135 69 | 633334/3500    | 100%       | 1.170           | 0.00             | 17.23                | 18.20              | 1.250         | 1.463                  | 22.2             |
| Product specific 10g SAR Test data(Separate 1RB) Sensor off DSI 7       |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Back side 11mm                                                          | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.415           | -0.01            | 24.39                | 25.20              | 1.205         | 0.500                  | 22.2             |
| Left side 12mm                                                          | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.425           | 0.09             | 24.39                | 25.20              | 1.205         | 0.512                  | 22.2             |
| Top side 0mm                                                            | 100 | QPSK 1 271  | 633334/3500    | 100%       | 1.830           | 0.08             | 24.39                | 25.20              | 1.205         | 2.205                  | 22.2             |
| Product specific 10g SAR Test data (Separate 50%RB) Sensor off DSI 7    |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Back side 11mm                                                          | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.599           | -0.16            | 24.46                | 25.20              | 1.186         | 0.710                  | 22.2             |
| Left side 12mm                                                          | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.628           | 0.02             | 24.46                | 25.20              | 1.186         | 0.745                  | 22.2             |
| Top side 0mm                                                            | 100 | QPSK 135 69 | 633334/3500    | 100%       | 2.410           | 0.01             | 24.46                | 25.20              | 1.186         | <b>2.858</b>           | 22.2             |
| Top side 0mm-repeated                                                   | 100 | QPSK 135 69 | 633334/3500    | 100%       | 2.350           | 0.06             | 24.46                | 25.20              | 1.186         | 2.787                  | 22.2             |
| Product specific 10g SAR Test data (Separate 100%RB) Sensor off DSI 7   |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Top side 0mm                                                            | 100 | QPSK 270 0  | 633334/3500    | 100%       | 1.200           | -0.04            | 23.28                | 24.20              | 1.236         | 1.483                  | 22.2             |
| Ant 23 Test Record                                                      |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Test position                                                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g  | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg)  | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                                               |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                              | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.335           | 0.07             | 17.37                | 18.00              | 1.156         | 0.387                  | 22.2             |



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| Left tilted                                      | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.172          | 0.07             | 17.37                | 18.00              | 1.156         | 0.199                 | 22.2             |
|--------------------------------------------------|-----|-------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Right cheek                                      | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.097          | 0.03             | 17.37                | 18.00              | 1.156         | 0.112                 | 22.2             |
| Right tilted                                     | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.085          | 0.09             | 17.37                | 18.00              | 1.156         | 0.098                 | 22.2             |
| Head Test Data(50%RB) DSI 2                      |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.251          | 0.09             | 17.18                | 18.00              | 1.208         | 0.303                 | 22.2             |
| Left tilted                                      | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.156          | 0.03             | 17.18                | 18.00              | 1.208         | 0.188                 | 22.2             |
| Right cheek                                      | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.100          | 0.04             | 17.18                | 18.00              | 1.208         | 0.121                 | 22.2             |
| Right tilted                                     | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.060          | 0.02             | 17.18                | 18.00              | 1.208         | 0.072                 | 22.2             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.044          | 0.09             | 19.31                | 20.00              | 1.172         | 0.052                 | 22.2             |
| Back side                                        | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.126          | 0.06             | 19.31                | 20.00              | 1.172         | 0.148                 | 22.2             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.044          | 0.17             | 19.16                | 20.00              | 1.213         | 0.053                 | 22.2             |
| Back side                                        | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.114          | 0.03             | 19.16                | 20.00              | 1.213         | 0.138                 | 22.2             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.045          | 0.07             | 17.88                | 18.50              | 1.153         | 0.052                 | 22.2             |
| Back side                                        | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.147          | 0.02             | 17.88                | 18.50              | 1.153         | 0.170                 | 22.2             |
| Right side                                       | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.169          | 0.09             | 17.88                | 18.50              | 1.153         | 0.195                 | 22.2             |
| Top side                                         | 100 | QPSK 1 271  | 633334/3500    | 100%       | 0.083          | 0.03             | 17.88                | 18.50              | 1.153         | 0.096                 | 22.2             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.045          | -0.09            | 17.67                | 18.50              | 1.211         | 0.054                 | 22.2             |
| Back side                                        | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.109          | 0.09             | 17.67                | 18.50              | 1.211         | 0.132                 | 22.2             |
| Right side                                       | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.130          | 0.02             | 17.67                | 18.50              | 1.211         | 0.157                 | 22.2             |
| Top side                                         | 100 | QPSK 135 69 | 633334/3500    | 100%       | 0.062          | 0.01             | 17.67                | 18.50              | 1.211         | 0.075                 | 22.2             |
| Ant 21 Test Record                               |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.255          | -0.01            | 17.18                | 18.00              | 0.103         | 0.026                 | 22.2             |
| Left tilted                                      | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.286          | 0.02             | 17.18                | 18.00              | 0.103         | 0.029                 | 22.2             |
| Right cheek                                      | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.196          | 0.02             | 17.18                | 18.00              | 0.103         | 0.020                 | 22.2             |
| Right tilted                                     | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.198          | -0.19            | 17.18                | 18.00              | 0.103         | 0.020                 | 22.2             |
| Head Test Data(50%RB) DSI 2                      |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.293          | 0.06             | 17.22                | 18.00              | 0.102         | 0.030                 | 22.2             |
| Left tilted                                      | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.354          | 0.05             | 17.22                | 18.00              | 0.102         | 0.036                 | 22.2             |
| Right cheek                                      | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.241          | 0.03             | 17.22                | 18.00              | 0.102         | 0.025                 | 22.2             |
| Right tilted                                     | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.227          | -0.03            | 17.22                | 18.00              | 0.102         | 0.023                 | 22.2             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.046          | 0.00             | 20.18                | 21.00              | 0.103         | 0.005                 | 22.2             |
| Back side                                        | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.063          | 0.00             | 20.18                | 21.00              | 0.103         | 0.006                 | 22.2             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.055          | 0.00             | 20.24                | 21.00              | 0.101         | 0.006                 | 22.2             |
| Back side                                        | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.053          | 0.00             | 20.24                | 21.00              | 0.101         | 0.005                 | 22.2             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.059          | 0.00             | 18.69                | 19.50              | 0.102         | 0.006                 | 22.2             |
| Back side                                        | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.117          | 0.00             | 18.69                | 19.50              | 0.102         | 0.012                 | 22.2             |
| Left side                                        | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.010          | 0.00             | 18.69                | 19.50              | 0.102         | 0.001                 | 22.2             |
| Right side                                       | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.001          | 0.02             | 18.69                | 19.50              | 0.102         | 0.000                 | 22.2             |
| Top side                                         | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.139          | -0.04            | 18.69                | 19.50              | 0.102         | 0.014                 | 22.2             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                       | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.070          | 0.00             | 18.77                | 19.50              | 0.101         | 0.007                 | 22.2             |
| Back side                                        | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.118          | -0.03            | 18.77                | 19.50              | 0.101         | 0.012                 | 22.2             |
| Left side                                        | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.013          | 0.00             | 18.77                | 19.50              | 0.101         | 0.001                 | 22.2             |
| Right side                                       | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.001          | 0.01             | 18.77                | 19.50              | 0.101         | 0.000                 | 22.2             |
| Top side                                         | 100 | QPSK 135 69 | 633334/3500    | 8.5%       | 0.210          | 0.03             | 18.77                | 19.50              | 0.101         | 0.021                 | 22.2             |
| Ant 14 Test Record                               |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                    | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                        |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                       | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.194          | -0.01            | 14.47                | 15.70              | 0.113         | 0.022                 | 22.2             |
| Left tilted                                      | 100 | QPSK 1 1    | 633334/3500    | 8.5%       | 0.226          | -0.07            | 14.47                | 15.70              | 0.113         | 0.025                 | 22.2             |



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|                                                  |     |             |             |      |       |       |       |       |       |       |      |
|--------------------------------------------------|-----|-------------|-------------|------|-------|-------|-------|-------|-------|-------|------|
| Right cheek                                      | 100 | QPSK 1 1    | 633334/3500 | 8.5% | 0.596 | 0.05  | 14.47 | 15.70 | 0.113 | 0.067 | 22.2 |
| Right tilted                                     | 100 | QPSK 1 1    | 633334/3500 | 8.5% | 0.581 | 0.03  | 14.47 | 15.70 | 0.113 | 0.066 | 22.2 |
| Head Test Data(50%RB) DSI 2                      |     |             |             |      |       |       |       |       |       |       |      |
| Left cheek                                       | 100 | QPSK 135 69 | 633334/3500 | 8.5% | 0.167 | 0.04  | 14.39 | 15.70 | 0.115 | 0.019 | 22.2 |
| Left tilted                                      | 100 | QPSK 135 69 | 633334/3500 | 8.5% | 0.196 | 0.02  | 14.39 | 15.70 | 0.115 | 0.023 | 22.2 |
| Right cheek                                      | 100 | QPSK 135 69 | 633334/3500 | 8.5% | 0.563 | 0.05  | 14.39 | 15.70 | 0.115 | 0.065 | 22.2 |
| Right tilted                                     | 100 | QPSK 135 69 | 633334/3500 | 8.5% | 0.576 | 0.04  | 14.39 | 15.70 | 0.115 | 0.066 | 22.2 |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7   |     |             |             |      |       |       |       |       |       |       |      |
| Front side                                       | 100 | QPSK 1 1    | 633334/3500 | 8.5% | 0.218 | 0.09  | 21.23 | 22.70 | 0.119 | 0.026 | 22.2 |
| Back side                                        | 100 | QPSK 1 1    | 633334/3500 | 8.5% | 0.280 | -0.08 | 21.23 | 22.70 | 0.119 | 0.033 | 22.2 |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7 |     |             |             |      |       |       |       |       |       |       |      |
| Front side                                       | 100 | QPSK 135 69 | 633334/3500 | 8.5% | 0.198 | 0.02  | 21.28 | 22.70 | 0.118 | 0.023 | 22.2 |
| Back side                                        | 100 | QPSK 135 69 | 633334/3500 | 8.5% | 0.311 | -0.09 | 21.28 | 22.70 | 0.118 | 0.037 | 22.2 |
| Hotspot Test data(Separate 10mm 1RB) DSI 6       |     |             |             |      |       |       |       |       |       |       |      |
| Front side                                       | 100 | QPSK 1 1    | 633334/3500 | 8.5% | 0.399 | 0.06  | 20.25 | 21.70 | 0.119 | 0.047 | 22.2 |
| Back side                                        | 100 | QPSK 1 1    | 633334/3500 | 8.5% | 0.414 | 0.09  | 20.25 | 21.70 | 0.119 | 0.049 | 22.2 |
| Left side                                        | 100 | QPSK 1 1    | 633334/3500 | 8.5% | 0.181 | 0.02  | 20.25 | 21.70 | 0.119 | 0.021 | 22.2 |
| Top side                                         | 100 | QPSK 1 1    | 633334/3500 | 8.5% | 0.541 | 0.04  | 20.25 | 21.70 | 0.119 | 0.064 | 22.2 |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6     |     |             |             |      |       |       |       |       |       |       |      |
| Front side                                       | 100 | QPSK 135 69 | 633334/3500 | 8.5% | 0.386 | 0.01  | 20.17 | 21.70 | 0.121 | 0.047 | 22.2 |
| Back side                                        | 100 | QPSK 135 69 | 633334/3500 | 8.5% | 0.478 | 0.09  | 20.17 | 21.70 | 0.121 | 0.058 | 22.2 |
| Left side                                        | 100 | QPSK 135 69 | 633334/3500 | 8.5% | 0.207 | 0.06  | 20.17 | 21.70 | 0.121 | 0.025 | 22.2 |
| Top side                                         | 100 | QPSK 135 69 | 633334/3500 | 8.5% | 0.572 | -0.02 | 20.17 | 21.70 | 0.121 | 0.069 | 22.2 |

| Ant 13 (3700-3800) Test Record                                          |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
|-------------------------------------------------------------------------|-----|-------------|----------------|------------|-----------------|------------------|----------------------|--------------------|---------------|------------------------|------------------|
| Test position                                                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g  | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg)  | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                                               |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                              | 100 | QPSK 1 137  | 650000/3750    | 100%       | 0.061           | 0.09             | 17.40                | 18.20              | 1.202         | 0.073                  | 22.0             |
| Left tilted                                                             | 100 | QPSK 1 137  | 650000/3750    | 100%       | 0.113           | -0.02            | 17.40                | 18.20              | 1.202         | 0.136                  | 22.0             |
| Right cheek                                                             | 100 | QPSK 1 137  | 650000/3750    | 100%       | 0.265           | 0.05             | 17.40                | 18.20              | 1.202         | 0.319                  | 22.0             |
| Right tilted                                                            | 100 | QPSK 1 137  | 650000/3750    | 100%       | 0.218           | 0.10             | 17.40                | 18.20              | 1.202         | 0.262                  | 22.0             |
| Head Test Data(50%RB) DSI 2                                             |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                              | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.117           | 0.08             | 17.34                | 18.20              | 1.219         | 0.143                  | 22.0             |
| Left tilted                                                             | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.129           | 0.03             | 17.34                | 18.20              | 1.219         | 0.157                  | 22.0             |
| Right cheek                                                             | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.253           | -0.06            | 17.34                | 18.20              | 1.219         | 0.308                  | 22.0             |
| Right tilted                                                            | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.327           | 0.08             | 17.34                | 18.20              | 1.219         | 0.399                  | 22.0             |
| Body worn Test data(Separate 15mm 1RB) DSI 7                            |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 1 137  | 650000/3750    | 100%       | 0.078           | 0.04             | 24.40                | 25.20              | 1.202         | 0.094                  | 22.0             |
| Back side                                                               | 100 | QPSK 1 137  | 650000/3750    | 100%       | 0.587           | -0.09            | 24.40                | 25.20              | 1.202         | 0.706                  | 22.0             |
| Body worn Test data(Separate 15mm 50%RB) DSI 7                          |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.114           | 0.01             | 24.32                | 25.20              | 1.225         | 0.140                  | 22.0             |
| Back side                                                               | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.383           | -0.03            | 24.32                | 25.20              | 1.225         | 0.469                  | 22.0             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6                              |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 1 271  | 650000/3750    | 100%       | 0.044           | 0.04             | 15.99                | 16.70              | 1.178         | 0.052                  | 22.0             |
| Back side                                                               | 100 | QPSK 1 271  | 650000/3750    | 100%       | 0.092           | 0.05             | 15.99                | 16.70              | 1.178         | 0.108                  | 22.0             |
| Left side                                                               | 100 | QPSK 1 271  | 650000/3750    | 100%       | 0.137           | 0.06             | 15.99                | 16.70              | 1.178         | 0.161                  | 22.0             |
| Top side                                                                | 100 | QPSK 1 271  | 650000/3750    | 100%       | 0.087           | 0.07             | 15.99                | 16.70              | 1.178         | 0.102                  | 22.0             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6                            |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Front side                                                              | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.051           | 0.07             | 15.88                | 16.70              | 1.208         | 0.061                  | 22.0             |
| Back side                                                               | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.133           | 0.17             | 15.88                | 16.70              | 1.208         | 0.161                  | 22.0             |
| Left side                                                               | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.175           | -0.02            | 15.88                | 16.70              | 1.208         | 0.211                  | 22.0             |
| Top side                                                                | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.118           | 0.05             | 15.88                | 16.70              | 1.208         | 0.143                  | 22.0             |
| Test position                                                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Product specific 10g SAR Test data(Separate 0mm 1RB) Sensor on DSI 4    |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left side                                                               | 100 | QPSK 1 137  | 650000/3750    | 100%       | 1.130           | 0.06             | 17.40                | 18.20              | 1.202         | 1.359                  | 22.0             |
| Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 4 |     |             |                |            |                 |                  |                      |                    |               |                        |                  |
| Left side                                                               | 100 | QPSK 135 69 | 650000/3750    | 100%       | 1.190           | 0.01             | 17.34                | 18.20              | 1.219         | 1.451                  | 22.0             |



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| Product specific 10g SAR Test data(Separate 1RB) Sensor off DSI 7    |     |             |                |            |                |                  |                      |                    |               |                       |                  |
|----------------------------------------------------------------------|-----|-------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Left side 12mm                                                       | 100 | QPSK 1 271  | 650000/3750    | 100%       | 0.359          | 0.04             | 24.40                | 25.20              | 1.202         | 0.432                 | 22.0             |
| Product specific 10g SAR Test data (Separate 50%RB) Sensor off DSI 7 |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left side 12mm                                                       | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.364          | 0.01             | 24.32                | 25.20              | 1.225         | 0.446                 | 22.0             |
| Ant 23 Test Record                                                   |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                                        | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                                            |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                                           | 100 | QPSK 1 271  | 650000/3750    | 100%       | 0.550          | 0.07             | 17.67                | 18.00              | 1.079         | 0.593                 | 22.0             |
| Left tilted                                                          | 100 | QPSK 1 271  | 650000/3750    | 100%       | 0.386          | 0.04             | 17.67                | 18.00              | 1.079         | 0.416                 | 22.0             |
| Right cheek                                                          | 100 | QPSK 1 271  | 650000/3750    | 100%       | 0.182          | 0.08             | 17.67                | 18.00              | 1.079         | 0.196                 | 22.0             |
| Right tilted                                                         | 100 | QPSK 1 271  | 650000/3750    | 100%       | 0.185          | 0.06             | 17.67                | 18.00              | 1.079         | 0.200                 | 22.0             |
| Head Test Data(50%RB) DSI 2                                          |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                                           | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.486          | 0.02             | 17.59                | 18.00              | 1.099         | 0.534                 | 22.0             |
| Left tilted                                                          | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.395          | 0.05             | 17.59                | 18.00              | 1.099         | 0.434                 | 22.0             |
| Right cheek                                                          | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.181          | 0.08             | 17.59                | 18.00              | 1.099         | 0.199                 | 22.0             |
| Right tilted                                                         | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.176          | 0.06             | 17.59                | 18.00              | 1.099         | 0.193                 | 22.0             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7                       |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                                           | 100 | QPSK 1 271  | 650000/3750    | 100%       | 0.088          | 0.12             | 19.62                | 20.00              | 1.091         | 0.096                 | 22.0             |
| Back side                                                            | 100 | QPSK 1 271  | 650000/3750    | 100%       | 0.183          | 0.08             | 19.62                | 20.00              | 1.091         | 0.200                 | 22.0             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7                     |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                                           | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.074          | 0.06             | 19.54                | 20.00              | 1.112         | 0.083                 | 22.0             |
| Back side                                                            | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.142          | 0.11             | 19.54                | 20.00              | 1.112         | 0.158                 | 22.0             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6                           |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                                           | 100 | QPSK 1 271  | 650000/3750    | 100%       | 0.111          | 0.06             | 18.19                | 18.50              | 1.074         | 0.119                 | 22.0             |
| Back side                                                            | 100 | QPSK 1 271  | 650000/3750    | 100%       | 0.233          | 0.08             | 18.19                | 18.50              | 1.074         | 0.250                 | 22.0             |
| Right side                                                           | 100 | QPSK 1 271  | 650000/3750    | 100%       | 0.322          | 0.17             | 18.19                | 18.50              | 1.074         | 0.346                 | 22.0             |
| Top side                                                             | 100 | QPSK 1 271  | 650000/3750    | 100%       | 0.097          | 0.07             | 18.19                | 18.50              | 1.074         | 0.104                 | 22.0             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6                         |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                                           | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.095          | 0.08             | 18.11                | 18.50              | 1.094         | 0.104                 | 22.0             |
| Back side                                                            | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.190          | 0.08             | 18.11                | 18.50              | 1.094         | 0.208                 | 22.0             |
| Right side                                                           | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.211          | 0.07             | 18.11                | 18.50              | 1.094         | 0.231                 | 22.0             |
| Top side                                                             | 100 | QPSK 135 69 | 650000/3750    | 100%       | 0.085          | 0.01             | 18.11                | 18.50              | 1.094         | 0.093                 | 22.0             |
| Ant 21 Test Record                                                   |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                                        | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test Data(1RB) DSI 2                                            |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                                           | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.643          | 0.08             | 17.54                | 18.00              | 0.094         | 0.061                 | 22.0             |
| Left tilted                                                          | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.771          | 0.06             | 17.54                | 18.00              | 0.094         | 0.073                 | 22.0             |
| Right cheek                                                          | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.483          | -0.15            | 17.54                | 18.00              | 0.094         | 0.046                 | 22.0             |
| Right tilted                                                         | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.569          | 0.05             | 17.54                | 18.00              | 0.094         | 0.054                 | 22.0             |
| Head Test Data(50%RB) DSI 2                                          |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                                           | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.390          | 0.05             | 17.50                | 18.00              | 0.095         | 0.037                 | 22.0             |
| Left tilted                                                          | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.667          | 0.08             | 17.50                | 18.00              | 0.095         | 0.064                 | 22.0             |
| Right cheek                                                          | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.533          | 0.18             | 17.50                | 18.00              | 0.095         | 0.051                 | 22.0             |
| Right tilted                                                         | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.622          | 0.02             | 17.50                | 18.00              | 0.095         | 0.059                 | 22.0             |
| Body worn Test data(Separate 15mm 1RB) DSI 4/7                       |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                                           | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.118          | 0.00             | 20.51                | 21.00              | 0.095         | 0.011                 | 22.0             |
| Back side                                                            | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.092          | 0.09             | 20.51                | 21.00              | 0.095         | 0.009                 | 22.0             |
| Body worn Test data(Separate 15mm 50%RB) DSI 4/7                     |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                                           | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.122          | 0.00             | 20.53                | 21.00              | 0.095         | 0.012                 | 22.0             |
| Back side                                                            | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.095          | 0.00             | 20.53                | 21.00              | 0.095         | 0.009                 | 22.0             |
| Hotspot Test data(Separate 10mm 1RB) DSI 6                           |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                                           | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.171          | 0.09             | 19.05                | 19.50              | 0.094         | 0.016                 | 22.0             |
| Back side                                                            | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.152          | 0.09             | 19.05                | 19.50              | 0.094         | 0.014                 | 22.0             |
| Left side                                                            | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.020          | 0.09             | 19.05                | 19.50              | 0.094         | 0.002                 | 22.0             |
| Right side                                                           | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.031          | 0.17             | 19.05                | 19.50              | 0.094         | 0.003                 | 22.0             |
| Top side                                                             | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.424          | 0.09             | 19.05                | 19.50              | 0.094         | 0.040                 | 22.0             |
| Hotspot Test data(Separate 10mm 50%RB) DSI 6                         |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                                           | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.165          | 0.09             | 19.00                | 19.50              | 0.095         | 0.016                 | 22.0             |
| Back side                                                            | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.178          | 0.09             | 19.00                | 19.50              | 0.095         | 0.017                 | 22.0             |



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| Left side                                               | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.011          | 0.09             | 19.00                | 19.50              | 0.095         | 0.001                 | 22.0             |
|---------------------------------------------------------|-----|-------------|----------------|------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Right side                                              | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.038          | 0.08             | 19.00                | 19.50              | 0.095         | 0.004                 | 22.0             |
| Top side                                                | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.432          | 0.07             | 19.00                | 19.50              | 0.095         | 0.041                 | 22.0             |
| <b>Ant 14 Test Record</b>                               |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Test position                                           | BW. | Test mode   | Test ch./Freq. | Duty Cycle | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| <b>Head Test Data(1RB) DSI 2</b>                        |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                              | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.119          | 0.09             | 14.85                | 15.70              | 0.103         | 0.012                 | 22.0             |
| Left tilted                                             | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.126          | 0.02             | 14.85                | 15.70              | 0.103         | 0.013                 | 22.0             |
| Right cheek                                             | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.292          | 0.13             | 14.85                | 15.70              | 0.103         | 0.030                 | 22.0             |
| Right tilted                                            | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.270          | 0.15             | 14.85                | 15.70              | 0.103         | 0.028                 | 22.0             |
| <b>Head Test Data(50%RB) DSI 2</b>                      |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Left cheek                                              | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.134          | -0.05            | 14.86                | 15.70              | 0.103         | 0.014                 | 22.0             |
| Left tilted                                             | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.136          | 0.05             | 14.86                | 15.70              | 0.103         | 0.014                 | 22.0             |
| Right cheek                                             | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.356          | 0.06             | 14.86                | 15.70              | 0.103         | 0.037                 | 22.0             |
| Right tilted                                            | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.268          | 0.09             | 14.86                | 15.70              | 0.103         | 0.028                 | 22.0             |
| <b>Body worn Test data(Separate 15mm 1RB) DSI 4/7</b>   |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                              | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.074          | 0.09             | 21.70                | 22.70              | 0.107         | 0.008                 | 22.0             |
| Back side                                               | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.094          | 0.09             | 21.70                | 22.70              | 0.107         | 0.010                 | 22.0             |
| <b>Body worn Test data(Separate 15mm 50%RB) DSI 4/7</b> |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                              | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.118          | 0.19             | 21.68                | 22.70              | 0.108         | 0.013                 | 22.0             |
| Back side                                               | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.151          | 0.05             | 21.68                | 22.70              | 0.108         | 0.016                 | 22.0             |
| <b>Hotspot Test data(Separate 10mm 1RB) DSI 6</b>       |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                              | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.179          | 0.06             | 20.70                | 21.70              | 0.107         | 0.019                 | 22.0             |
| Back side                                               | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.202          | 0.03             | 20.70                | 21.70              | 0.107         | 0.022                 | 22.0             |
| Left side                                               | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.207          | 0.08             | 20.70                | 21.70              | 0.107         | 0.022                 | 22.0             |
| Top side                                                | 100 | QPSK 1 271  | 650000/3750    | 8.5%       | 0.127          | 0.09             | 20.70                | 21.70              | 0.107         | 0.014                 | 22.0             |
| <b>Hotspot Test data(Separate 10mm 50%RB) DSI 6</b>     |     |             |                |            |                |                  |                      |                    |               |                       |                  |
| Front side                                              | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.172          | -0.10            | 20.69                | 21.70              | 0.107         | 0.018                 | 22.0             |
| Back side                                               | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.200          | 0.06             | 20.69                | 21.70              | 0.107         | 0.021                 | 22.0             |
| Left side                                               | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.453          | 0.12             | 20.69                | 21.70              | 0.107         | 0.049                 | 22.0             |
| Top side                                                | 100 | QPSK 135 69 | 650000/3750    | 8.5%       | 0.127          | 0.05             | 20.69                | 21.70              | 0.107         | 0.014                 | 22.0             |

Table 32: SAR of 5G NR n78 for Head and Body and Product specific 10g SAR.

| Test Position                                                                                                                                                                                                                                                                                                                        | Channel/<br>Frequency | Measured<br>SAR (1g) | 1 <sup>st</sup> Repeated | Ratio | 2 <sup>nd</sup><br>Repeated | 3 <sup>rd</sup><br>Repeated |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------|--------------------------|-------|-----------------------------|-----------------------------|
|                                                                                                                                                                                                                                                                                                                                      | (MHz)                 |                      | SAR (1g)                 |       | SAR (1g)                    | SAR (1g)                    |
| Top side 0mm                                                                                                                                                                                                                                                                                                                         | 633334/3500           | 2.41                 | 2.35                     | 1.03  | N/A                         | N/A                         |
| Note: 1) When the original highest measured SAR is $\geq 0.80$ W/kg, the measurement was repeated once.                                                                                                                                                                                                                              |                       |                      |                          |       |                             |                             |
| 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was $> 1.20$ or when the original or repeated measurement was $\geq 1.45$ W/kg ( $\sim 10\%$ from the 1-g SAR limit).                                                                   |                       |                      |                          |       |                             |                             |
| 3) A third repeated measurement was performed only if the original, first or second repeated measurement was $\geq 1.5$ W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is $> 1.20$ .                                                                                         |                       |                      |                          |       |                             |                             |
| 4) Repeated measurements are not required when the original highest measured SAR is $< 0.80$ W/kg                                                                                                                                                                                                                                    |                       |                      |                          |       |                             |                             |
| 5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report. |                       |                      |                          |       |                             |                             |



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## 8.2.23 SAR Result of WIFI 2.4G

| Ant22 Test Record                  |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
|------------------------------------|-----------|----------------|------------|--------------------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                      | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test data                     |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Left cheek                         | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.429          | 0.06             | 12.96                | 14.50              | 1.426         | <b>0.612</b>          | 22.4             |
| Left tilted                        | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.376          | -0.09            | 12.96                | 14.50              | 1.426         | 0.537                 | 22.4             |
| Right cheek                        | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.190          | 0.14             | 12.96                | 14.50              | 1.426         | 0.271                 | 22.4             |
| Right tilted                       | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.195          | -0.03            | 12.96                | 14.50              | 1.426         | 0.278                 | 22.4             |
| Body worn Test data(Separate 15mm) |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Front side                         | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.035          | 0.11             | 15.04                | 16.50              | 1.400         | 0.049                 | 22.4             |
| Back side                          | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.050          | 0.10             | 15.04                | 16.50              | 1.400         | 0.070                 | 22.4             |
| Hotspot Test data (Separate 10mm)  |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Front side                         | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.074          | 0.06             | 15.04                | 16.50              | 1.400         | 0.104                 | 22.4             |
| Back side                          | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.108          | -0.13            | 15.04                | 16.50              | 1.400         | <b>0.151</b>          | 22.4             |
| Right side                         | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.045          | 0.02             | 15.04                | 16.50              | 1.400         | 0.063                 | 22.4             |
| Top side                           | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.064          | 0.07             | 15.04                | 16.50              | 1.400         | 0.089                 | 22.4             |
| Ant24 Test Record                  |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Test position                      | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test data                     |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Left cheek                         | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.134          | 0.02             | 13.18                | 14.50              | 1.355         | 0.182                 | 22.4             |
| Left tilted                        | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.030          | 0.05             | 13.18                | 14.50              | 1.355         | 0.041                 | 22.4             |
| Right cheek                        | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.086          | 0.11             | 13.18                | 14.50              | 1.355         | 0.116                 | 22.4             |
| Right tilted                       | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.001          | -0.01            | 13.18                | 14.50              | 1.355         | 0.001                 | 22.4             |
| Body worn Test data(Separate 15mm) |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Front side                         | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.014          | 0.03             | 15.12                | 16.50              | 1.374         | 0.019                 | 22.4             |
| Back side                          | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.021          | -0.10            | 15.12                | 16.50              | 1.374         | 0.028                 | 22.4             |
| Hotspot Test data (Separate 10mm)  |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Front side                         | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.029          | 0.05             | 15.12                | 16.50              | 1.374         | 0.039                 | 22.4             |
| Back side                          | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.038          | 0.06             | 15.12                | 16.50              | 1.374         | 0.052                 | 22.4             |
| Right side                         | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.037          | 0.09             | 15.12                | 16.50              | 1.374         | 0.050                 | 22.4             |
| MIMO Test Record                   |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Test position                      | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test data                     |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Left cheek                         | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.319          | -0.05            | 16.08                | 17.50              | 1.386         | 0.443                 | 22.4             |
| Left tilted                        | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.284          | 0.02             | 16.08                | 17.50              | 1.386         | 0.394                 | 22.4             |
| Right cheek                        | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.108          | 0.14             | 16.08                | 17.50              | 1.386         | 0.150                 | 22.4             |
| Right tilted                       | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.099          | 0.19             | 16.08                | 17.50              | 1.386         | 0.137                 | 22.4             |
| Body worn Test data(Separate 15mm) |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Front side                         | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.033          | -0.07            | 18.09                | 19.50              | 1.383         | 0.046                 | 22.4             |
| Back side                          | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.054          | -0.09            | 18.09                | 19.50              | 1.383         | <b>0.075</b>          | 22.4             |
| Hotspot Test data (Separate 10mm)  |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Front side                         | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.072          | -0.02            | 18.09                | 19.50              | 1.383         | 0.099                 | 22.4             |
| Back side                          | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.108          | -0.07            | 18.09                | 19.50              | 1.383         | 0.150                 | 22.4             |
| Right side                         | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.065          | 0.09             | 18.09                | 19.50              | 1.383         | 0.089                 | 22.4             |
| Top side                           | 802.11b   | 6/2437         | 99.88%     | 1.001                    | 0.051          | 0.03             | 18.09                | 19.50              | 1.383         | 0.070                 | 22.4             |

Table 33: SAR of WIFI 2.4G for Head and Body.

Note:

1) As the 802.11b highest reported SAR is smaller than 1.2 W/kg, and the tune-up of the other 802.11 modes is not higher than 802.11b, therefore the adjusted SAR is  $\leq 1.2$  W/kg for other 802.11 modes, SAR test for the other 802.11 modes is not required.



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## 8.2.24 SAR Result of WIFI 5G

| Ant22 Test Record                                           |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
|-------------------------------------------------------------|-----------------|----------------|------------|--------------------------|-----------------|------------------|----------------------|--------------------|---------------|------------------------|------------------|
| Test position                                               | Test mode       | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g  | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg)  | Liquid Temp.(°C) |
| Head Test data of U-NII-2A                                  |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                  | 802.11ac VHT160 | 50/5250        | 99.82%     | 1.002                    | 0.298           | 0.07             | 9.95                 | 11.00              | 1.274         | 0.380                  | 22.1             |
| Left tilted                                                 | 802.11ac VHT160 | 50/5250        | 99.82%     | 1.002                    | 0.343           | 0.04             | 9.95                 | 11.00              | 1.274         | 0.438                  | 22.1             |
| Right cheek                                                 | 802.11ac VHT160 | 50/5250        | 99.82%     | 1.002                    | 0.146           | 0.06             | 9.95                 | 11.00              | 1.274         | 0.186                  | 22.1             |
| Right tilted                                                | 802.11ac VHT160 | 50/5250        | 99.82%     | 1.002                    | 0.161           | 0.03             | 9.95                 | 11.00              | 1.274         | 0.205                  | 22.1             |
| Head Test data of U-NII-2C                                  |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                  | 802.11ac VHT80  | 138/5690       | 99.63%     | 1.004                    | 0.397           | 0.06             | 10.33                | 11.00              | 1.167         | 0.465                  | 22.4             |
| Left tilted                                                 | 802.11ac VHT80  | 138/5690       | 99.63%     | 1.004                    | 0.382           | 0.09             | 10.33                | 11.00              | 1.167         | 0.447                  | 22.4             |
| Right cheek                                                 | 802.11ac VHT80  | 138/5690       | 99.63%     | 1.004                    | 0.183           | 0.03             | 10.33                | 11.00              | 1.167         | 0.214                  | 22.4             |
| Right tilted                                                | 802.11ac VHT80  | 138/5690       | 99.63%     | 1.004                    | 0.190           | 0.02             | 10.33                | 11.00              | 1.167         | 0.223                  | 22.4             |
| Head Test data of U-NII-3                                   |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                  | 802.11ac VHT80  | 155/5775       | 99.63%     | 1.004                    | 0.052           | 0.10             | 10.58                | 11.00              | 1.102         | 0.057                  | 22.3             |
| Left tilted                                                 | 802.11ac VHT80  | 155/5775       | 99.63%     | 1.004                    | 0.057           | 0.11             | 10.58                | 11.00              | 1.102         | 0.063                  | 22.3             |
| Right cheek                                                 | 802.11ac VHT80  | 155/5775       | 99.63%     | 1.004                    | 0.028           | 0.04             | 10.58                | 11.00              | 1.102         | 0.031                  | 22.3             |
| Right tilted                                                | 802.11ac VHT80  | 155/5775       | 99.63%     | 1.004                    | 0.045           | -0.05            | 10.58                | 11.00              | 1.102         | 0.050                  | 22.3             |
| Body worn Test data of U-NII-2A(Separate 15mm)              |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a         | 52/5260        | 98.74%     | 1.013                    | 0.083           | 0.00             | 15.23                | 16.50              | 1.340         | 0.112                  | 22.1             |
| Back side                                                   | 802.11a         | 52/5260        | 98.74%     | 1.013                    | 0.186           | -0.07            | 15.23                | 16.50              | 1.340         | 0.252                  | 22.1             |
| Body worn Test data of U-NII-2C(Separate 15mm)              |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a         | 144/5720       | 98.74%     | 1.013                    | 0.069           | 0.01             | 15.17                | 16.00              | 1.211         | 0.085                  | 22.3             |
| Back side                                                   | 802.11a         | 144/5720       | 98.74%     | 1.013                    | 0.101           | 0.00             | 15.17                | 16.00              | 1.211         | 0.124                  | 22.3             |
| Body worn Test data of U-NII-3(Separate 15mm)               |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a         | 153/5765       | 98.74%     | 1.013                    | 0.126           | -0.11            | 17.46                | 18.00              | 1.132         | 0.145                  | 22.3             |
| Back side                                                   | 802.11a         | 153/5765       | 98.74%     | 1.013                    | 0.204           | 0.06             | 17.46                | 18.00              | 1.132         | 0.234                  | 22.3             |
| Hotspot Test data of U-NII-1(Separate 10mm)                 |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a         | 40/5200        | 98.74%     | 1.013                    | 0.132           | 0.06             | 15.64                | 16.50              | 1.219         | 0.163                  | 22.1             |
| Back side                                                   | 802.11a         | 40/5200        | 98.74%     | 1.013                    | 0.372           | 0.11             | 15.64                | 16.50              | 1.219         | 0.459                  | 22.1             |
| Right side                                                  | 802.11a         | 40/5200        | 98.74%     | 1.013                    | 0.092           | -0.05            | 15.64                | 16.50              | 1.219         | 0.113                  | 22.1             |
| Top side                                                    | 802.11a         | 40/5200        | 98.74%     | 1.013                    | 0.360           | 0.12             | 15.64                | 16.50              | 1.219         | 0.444                  | 22.1             |
| Hotspot Test data of U-NII-3(Separate 10mm)                 |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a         | 153/5765       | 98.74%     | 1.013                    | 0.223           | 0.05             | 17.46                | 18.00              | 1.132         | 0.256                  | 22.3             |
| Back side                                                   | 802.11a         | 153/5765       | 98.74%     | 1.013                    | 0.378           | -0.05            | 17.46                | 18.00              | 1.132         | 0.434                  | 22.3             |
| Right side                                                  | 802.11a         | 153/5765       | 98.74%     | 1.013                    | 0.118           | 0.17             | 17.46                | 18.00              | 1.132         | 0.135                  | 22.3             |
| Top side                                                    | 802.11a         | 153/5765       | 98.74%     | 1.013                    | 0.570           | -0.03            | 17.46                | 18.00              | 1.132         | 0.654                  | 22.3             |
| Test position                                               | Test mode       | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Product specific 10gSAR Test data of U-NII-2A(Separate 0mm) |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a         | 52/5260        | 98.74%     | 1.013                    | 0.422           | 0.00             | 15.23                | 16.50              | 1.340         | 0.573                  | 22.1             |
| Back side                                                   | 802.11a         | 52/5260        | 98.74%     | 1.013                    | 0.376           | 0.08             | 15.23                | 16.50              | 1.340         | 0.510                  | 22.1             |
| Right side                                                  | 802.11a         | 52/5260        | 98.74%     | 1.013                    | 0.177           | -0.05            | 15.23                | 16.50              | 1.340         | 0.240                  | 22.1             |
| Top side                                                    | 802.11a         | 52/5260        | 98.74%     | 1.013                    | 0.680           | 0.05             | 15.23                | 16.50              | 1.340         | 0.923                  | 22.1             |
| Product specific 10gSAR Test data of U-NII-2C(Separate 0mm) |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a         | 144/5720       | 98.74%     | 1.013                    | 0.294           | 0.00             | 15.17                | 16.00              | 1.211         | 0.360                  | 22.3             |
| Back side                                                   | 802.11a         | 144/5720       | 98.74%     | 1.013                    | 0.203           | -0.03            | 15.17                | 16.00              | 1.211         | 0.249                  | 22.3             |
| Right side                                                  | 802.11a         | 144/5720       | 98.74%     | 1.013                    | 0.114           | -0.07            | 15.17                | 16.00              | 1.211         | 0.140                  | 22.3             |
| Top side                                                    | 802.11a         | 144/5720       | 98.74%     | 1.013                    | 0.678           | -0.09            | 15.17                | 16.00              | 1.211         | 0.831                  | 22.3             |
| Ant24 Test Record                                           |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Test position                                               | Test mode       | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g  | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg)  | Liquid Temp.(°C) |
| Head Test data of U-NII-2A                                  |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                  | 802.11ac VHT160 | 50/5250        | 99.82%     | 1.002                    | 0.033           | 0.00             | 10.62                | 11.00              | 1.091         | 0.036                  | 22.1             |



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| Left tilted                                                 | 802.11ac VHT160 | 50/5250        | 99.82%     | 1.002                    | 0.016           | 0.00             | 10.62                | 11.00              | 1.091         | 0.017                  | 22.1             |
|-------------------------------------------------------------|-----------------|----------------|------------|--------------------------|-----------------|------------------|----------------------|--------------------|---------------|------------------------|------------------|
| Right cheek                                                 | 802.11ac VHT160 | 50/5250        | 99.82%     | 1.002                    | 0.022           | 0.00             | 10.62                | 11.00              | 1.091         | 0.024                  | 22.1             |
| Right tilted                                                | 802.11ac VHT160 | 50/5250        | 99.82%     | 1.002                    | 0.015           | 0.00             | 10.62                | 11.00              | 1.091         | 0.016                  | 22.1             |
| Head Test data of U-NII-2C                                  |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                  | 802.11ac VHT80  | 138/5690       | 99.63%     | 1.004                    | 0.071           | 0.09             | 10.66                | 11.00              | 1.081         | 0.077                  | 22.4             |
| Left tilted                                                 | 802.11ac VHT80  | 138/5690       | 99.63%     | 1.004                    | 0.040           | 0.04             | 10.66                | 11.00              | 1.081         | 0.043                  | 22.4             |
| Right cheek                                                 | 802.11ac VHT80  | 138/5690       | 99.63%     | 1.004                    | 0.040           | 0.08             | 10.66                | 11.00              | 1.081         | 0.043                  | 22.4             |
| Right tilted                                                | 802.11ac VHT80  | 138/5690       | 99.63%     | 1.004                    | 0.022           | -0.18            | 10.66                | 11.00              | 1.081         | 0.024                  | 22.4             |
| Head Test data of U-NII-3                                   |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                  | 802.11ac VHT80  | 155/5775       | 99.63%     | 1.004                    | 0.067           | -0.05            | 10.93                | 11.00              | 1.016         | 0.068                  | 22.3             |
| Left tilted                                                 | 802.11ac VHT80  | 155/5775       | 99.63%     | 1.004                    | 0.046           | 0.00             | 10.93                | 11.00              | 1.016         | 0.047                  | 22.3             |
| Right cheek                                                 | 802.11ac VHT80  | 155/5775       | 99.63%     | 1.004                    | 0.039           | 0.00             | 10.93                | 11.00              | 1.016         | 0.039                  | 22.3             |
| Right tilted                                                | 802.11ac VHT80  | 155/5775       | 99.63%     | 1.004                    | 0.033           | 0.00             | 10.93                | 11.00              | 1.016         | 0.034                  | 22.3             |
| Body worn Test data of U-NII-2A(Separate 15mm)              |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a         | 56/5280        | 98.74%     | 1.013                    | 0.028           | -0.05            | 15.84                | 16.50              | 1.164         | 0.033                  | 22.1             |
| Back side                                                   | 802.11a         | 56/5280        | 98.74%     | 1.013                    | 0.041           | -0.05            | 15.84                | 16.50              | 1.164         | 0.048                  | 22.1             |
| Body worn Test data of U-NII-2C(Separate 15mm)              |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a         | 144/5720       | 98.74%     | 1.013                    | 0.037           | -0.07            | 15.29                | 16.00              | 1.178         | 0.044                  | 22.3             |
| Back side                                                   | 802.11a         | 144/5720       | 98.74%     | 1.013                    | 0.055           | 0.05             | 15.29                | 16.00              | 1.178         | 0.065                  | 22.3             |
| Body worn Test data of U-NII-3(Separate 15mm)               |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a         | 161/5805       | 98.74%     | 1.013                    | 0.064           | 0.01             | 17.58                | 18.00              | 1.102         | 0.071                  | 22.3             |
| Back side                                                   | 802.11a         | 161/5805       | 98.74%     | 1.013                    | 0.109           | 0.02             | 17.58                | 18.00              | 1.102         | 0.122                  | 22.3             |
| Hotspot Test data of U-NII-1(Separate 10mm)                 |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a         | 48/5240        | 98.74%     | 1.013                    | 0.044           | -0.06            | 15.93                | 16.50              | 1.140         | 0.051                  | 22.1             |
| Back side                                                   | 802.11a         | 48/5240        | 98.74%     | 1.013                    | 0.073           | 0.10             | 15.93                | 16.50              | 1.140         | 0.084                  | 22.1             |
| Right side                                                  | 802.11a         | 48/5240        | 98.74%     | 1.013                    | 0.136           | -0.07            | 15.93                | 16.50              | 1.140         | 0.157                  | 22.1             |
| Hotspot Test data of U-NII-3 (Separate 10mm)                |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a         | 161/5805       | 98.74%     | 1.013                    | 0.100           | 0.06             | 17.58                | 18.00              | 1.102         | 0.111                  | 22.3             |
| Back side                                                   | 802.11a         | 161/5805       | 98.74%     | 1.013                    | 0.166           | 0.08             | 17.58                | 18.00              | 1.102         | 0.185                  | 22.3             |
| Right side                                                  | 802.11a         | 161/5805       | 98.74%     | 1.013                    | 0.270           | -0.16            | 17.58                | 18.00              | 1.102         | 0.301                  | 22.3             |
| Test position                                               | Test mode       | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Product specific 10gSAR Test data of U-NII-2A(Separate 0mm) |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a         | 56/5280        | 98.74%     | 1.013                    | 0.118           | 0.00             | 15.84                | 16.50              | 1.164         | 0.139                  | 22.1             |
| Back side                                                   | 802.11a         | 56/5280        | 98.74%     | 1.013                    | 0.071           | 0.18             | 15.84                | 16.50              | 1.164         | 0.084                  | 22.1             |
| Right side                                                  | 802.11a         | 56/5280        | 98.74%     | 1.013                    | 0.407           | -0.03            | 15.84                | 16.50              | 1.164         | 0.480                  | 22.1             |
| Product specific 10gSAR Test data of U-NII-2C(Separate 0mm) |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a         | 144/5720       | 98.74%     | 1.013                    | 0.112           | -0.03            | 15.29                | 16.00              | 1.178         | 0.134                  | 22.3             |
| Back side                                                   | 802.11a         | 144/5720       | 98.74%     | 1.013                    | 0.137           | 0.08             | 15.29                | 16.00              | 1.178         | 0.163                  | 22.3             |
| Right side                                                  | 802.11a         | 144/5720       | 98.74%     | 1.013                    | 0.431           | -0.07            | 15.29                | 16.00              | 1.178         | 0.514                  | 22.3             |
| MIMO Test Record                                            |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Test position                                               | Test mode       | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g  | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg)  | Liquid Temp.(°C) |
| Head Test data of U-NII-2A                                  |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                  | 802.11ac VHT160 | 50/5250        | 99.82%     | 1.002                    | 0.278           | -0.05            | 13.31                | 14.00              | 1.172         | 0.326                  | 22.1             |
| Left tilted                                                 | 802.11ac VHT160 | 50/5250        | 99.82%     | 1.002                    | 0.271           | 0.05             | 13.31                | 14.00              | 1.172         | 0.318                  | 22.1             |
| Right cheek                                                 | 802.11ac VHT160 | 50/5250        | 99.82%     | 1.002                    | 0.149           | 0.11             | 13.31                | 14.00              | 1.172         | 0.175                  | 22.1             |
| Right tilted                                                | 802.11ac VHT160 | 50/5250        | 99.82%     | 1.002                    | 0.147           | 0.01             | 13.31                | 14.00              | 1.172         | 0.173                  | 22.1             |
| Head Test data of U-NII-2C                                  |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                  | 802.11ac VHT80  | 138/5690       | 99.63%     | 1.004                    | 0.333           | -0.03            | 13.51                | 14.00              | 1.119         | 0.374                  | 22.4             |
| Left tilted                                                 | 802.11ac VHT80  | 138/5690       | 99.63%     | 1.004                    | 0.308           | 0.01             | 13.51                | 14.00              | 1.119         | 0.346                  | 22.4             |
| Right cheek                                                 | 802.11ac VHT80  | 138/5690       | 99.63%     | 1.004                    | 0.281           | 0.10             | 13.51                | 14.00              | 1.119         | 0.316                  | 22.4             |
| Right tilted                                                | 802.11ac VHT80  | 138/5690       | 99.63%     | 1.004                    | 0.274           | 0.02             | 13.51                | 14.00              | 1.119         | 0.308                  | 22.4             |
| Head Test data of U-NII-3                                   |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Left cheek                                                  | 802.11ac VHT80  | 155/5775       | 99.63%     | 1.004                    | 0.367           | 0.01             | 13.77                | 14.00              | 1.055         | 0.389                  | 22.3             |
| Left tilted                                                 | 802.11ac VHT80  | 155/5775       | 99.63%     | 1.004                    | 0.274           | 0.07             | 13.77                | 14.00              | 1.055         | 0.290                  | 22.3             |
| Right cheek                                                 | 802.11ac VHT80  | 155/5775       | 99.63%     | 1.004                    | 0.252           | 0.02             | 13.77                | 14.00              | 1.055         | 0.267                  | 22.3             |
| Right tilted                                                | 802.11ac VHT80  | 155/5775       | 99.63%     | 1.004                    | 0.269           | 0.04             | 13.77                | 14.00              | 1.055         | 0.285                  | 22.3             |
| Body worn Test data of U-NII-2A (Separate 15mm)             |                 |                |            |                          |                 |                  |                      |                    |               |                        |                  |



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| Front side                                                  | 802.11a   | 56/5280        | 98.74%     | 1.013                    | 0.082           | -0.08            | 18.51                | 19.50              | 1.255         | 0.104                  | 22.1             |
|-------------------------------------------------------------|-----------|----------------|------------|--------------------------|-----------------|------------------|----------------------|--------------------|---------------|------------------------|------------------|
| Back side                                                   | 802.11a   | 56/5280        | 98.74%     | 1.013                    | 0.161           | 0.09             | 18.51                | 19.50              | 1.255         | 0.205                  | 22.1             |
| Body worn Test data of U-NII-2C(Separate 15mm)              |           |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a   | 144/5720       | 98.74%     | 1.013                    | 0.092           | -0.09            | 18.24                | 19.00              | 1.191         | 0.111                  | 22.3             |
| Back side                                                   | 802.11a   | 144/5720       | 98.74%     | 1.013                    | 0.147           | 0.00             | 18.24                | 19.00              | 1.191         | 0.177                  | 22.3             |
| Body worn Test data of U-NII-3(Separate 15mm)               |           |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a   | 161/5805       | 98.74%     | 1.013                    | 0.166           | -0.04            | 20.49                | 21.00              | 1.124         | 0.189                  | 22.3             |
| Back side                                                   | 802.11a   | 161/5805       | 98.74%     | 1.013                    | 0.263           | 0.02             | 20.49                | 21.00              | 1.124         | <b>0.299</b>           | 22.3             |
| Hotspot Test data of U-NII-1(Separate 10mm)                 |           |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a   | 40/5200        | 98.74%     | 1.013                    | 0.172           | 0.02             | 18.76                | 19.50              | 1.187         | 0.207                  | 22.1             |
| Back side                                                   | 802.11a   | 40/5200        | 98.74%     | 1.013                    | 0.424           | 0.08             | 18.76                | 19.50              | 1.187         | 0.510                  | 22.1             |
| Right side                                                  | 802.11a   | 40/5200        | 98.74%     | 1.013                    | 0.180           | 0.05             | 18.76                | 19.50              | 1.187         | 0.216                  | 22.1             |
| Top side                                                    | 802.11a   | 40/5200        | 98.74%     | 1.013                    | 0.406           | -0.01            | 18.76                | 19.50              | 1.187         | 0.488                  | 22.1             |
| Hotspot Test data of U-NII-3 (Separate 10mm)                |           |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a   | 161/5805       | 98.74%     | 1.013                    | 0.277           | 0.05             | 20.49                | 21.00              | 1.124         | 0.315                  | 22.3             |
| Back side                                                   | 802.11a   | 161/5805       | 98.74%     | 1.013                    | 0.516           | 0.06             | 20.49                | 21.00              | 1.124         | 0.588                  | 22.3             |
| Right side                                                  | 802.11a   | 161/5805       | 98.74%     | 1.013                    | 0.309           | 0.06             | 20.49                | 21.00              | 1.124         | 0.352                  | 22.3             |
| Top side                                                    | 802.11a   | 161/5805       | 98.74%     | 1.013                    | 0.656           | 0.01             | 20.49                | 21.00              | 1.124         | <b>0.747</b>           | 22.3             |
| Test position                                               | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 10-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 10-g (W/kg) | Liquid Temp.(°C) |
| Product specific 10gSAR Test data of U-NII-2A(Separate 0mm) |           |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a   | 56/5280        | 98.74%     | 1.013                    | 0.419           | 0.01             | 18.51                | 19.50              | 1.255         | 0.532                  | 22.1             |
| Back side                                                   | 802.11a   | 56/5280        | 98.74%     | 1.013                    | 0.379           | 0.02             | 18.51                | 19.50              | 1.255         | 0.482                  | 22.1             |
| Right side                                                  | 802.11a   | 56/5280        | 98.74%     | 1.013                    | 0.478           | -0.03            | 18.51                | 19.50              | 1.255         | 0.607                  | 22.1             |
| Top side                                                    | 802.11a   | 56/5280        | 98.74%     | 1.013                    | 0.633           | 0.02             | 18.51                | 19.50              | 1.255         | 0.804                  | 22.1             |
| Product specific 10gSAR Test data of U-NII-2C(Separate 0mm) |           |                |            |                          |                 |                  |                      |                    |               |                        |                  |
| Front side                                                  | 802.11a   | 144/5720       | 98.74%     | 1.013                    | 0.360           | 0.04             | 18.24                | 19.00              | 1.191         | 0.434                  | 22.3             |
| Back side                                                   | 802.11a   | 144/5720       | 98.74%     | 1.013                    | 0.277           | 0.04             | 18.24                | 19.00              | 1.191         | 0.334                  | 22.3             |
| Right side                                                  | 802.11a   | 144/5720       | 98.74%     | 1.013                    | 0.455           | -0.09            | 18.24                | 19.00              | 1.191         | 0.549                  | 22.3             |
| Top side                                                    | 802.11a   | 144/5720       | 98.74%     | 1.013                    | 0.742           | 0.02             | 18.24                | 19.00              | 1.191         | 0.895                  | 22.3             |

Table 34: SAR of WIFI 5G for Head, Body and Product specific 10g SAR.

## Note:

1) As the above highest 1g reported SAR is smaller than 1.2 W/kg, and the tune-up of the other 802.11 modes are not higher than the SAR test mode above, therefore the adjusted SAR is  $\leq 1.2$  W/kg for other 802.11 modes, SAR test for the other 802.11 modes is not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg, Product specific 10gSAR test for the other 802.11 modes is also not required.



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## 8.2.25 SAR Result of BT

| Ant22 Test Record                  |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
|------------------------------------|-----------|----------------|------------|--------------------------|----------------|------------------|----------------------|--------------------|---------------|-----------------------|------------------|
| Test position                      | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test data                     |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Left cheek                         | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.114          | 0.09             | 10.17                | 11.80              | 1.455         | <b>0.216</b>          | 22.4             |
| Left tilted                        | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.107          | 0.04             | 10.17                | 11.80              | 1.455         | 0.203                 | 22.4             |
| Right cheek                        | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.048          | 0.03             | 10.17                | 11.80              | 1.455         | 0.090                 | 22.4             |
| Right tilted                       | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.051          | 0.09             | 10.17                | 11.80              | 1.455         | 0.097                 | 22.4             |
| Body worn Test data(Separate 15mm) |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Front side                         | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.007          | -0.07            | 10.17                | 11.80              | 1.455         | 0.012                 | 22.4             |
| Back side                          | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.011          | 0.00             | 10.17                | 11.80              | 1.455         | <b>0.021</b>          | 22.4             |
| Hotspot Test data (Separate 10mm)  |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Front side                         | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.015          | -0.08            | 10.17                | 11.80              | 1.455         | 0.027                 | 22.4             |
| Back side                          | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.022          | -0.09            | 10.17                | 11.80              | 1.455         | <b>0.042</b>          | 22.4             |
| Right side                         | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.012          | 0.01             | 10.17                | 11.80              | 1.455         | 0.022                 | 22.4             |
| Top side                           | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.016          | 0.05             | 10.17                | 11.80              | 1.455         | 0.030                 | 22.4             |
| Ant24 Test Record                  |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Test position                      | Test mode | Test ch./Freq. | Duty Cycle | Duty Cycle Scaled factor | SAR (W/kg) 1-g | Power drift (dB) | Conducted Power(dBm) | Tune up Limit(dBm) | Scaled factor | Scaled SAR 1-g (W/kg) | Liquid Temp.(°C) |
| Head Test data                     |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Left cheek                         | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.032          | 0.00             | 10.38                | 12.30              | 1.556         | 0.064                 | 22.4             |
| Left tilted                        | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.005          | 0.09             | 10.38                | 12.30              | 1.556         | 0.010                 | 22.4             |
| Right cheek                        | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.045          | 0.00             | 10.38                | 12.30              | 1.556         | 0.091                 | 22.4             |
| Right tilted                       | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.001          | 0.09             | 10.38                | 12.30              | 1.556         | 0.003                 | 22.4             |
| Body worn Test data(Separate 15mm) |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Front side                         | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.005          | -0.04            | 10.38                | 12.30              | 1.556         | 0.011                 | 22.4             |
| Back side                          | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.007          | 0.03             | 10.38                | 12.30              | 1.556         | 0.014                 | 22.4             |
| Hotspot Test data (Separate 10mm)  |           |                |            |                          |                |                  |                      |                    |               |                       |                  |
| Front side                         | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.011          | -0.04            | 10.38                | 12.30              | 1.556         | 0.023                 | 22.4             |
| Back side                          | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.018          | 0.06             | 10.38                | 12.30              | 1.556         | 0.036                 | 22.4             |
| Right side                         | DH5       | 39/2441        | 76.81%     | 1.302                    | 0.015          | -0.02            | 10.38                | 12.30              | 1.556         | 0.031                 | 22.4             |

Table 35: SAR of BT for Head and Body.



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## 8.3 Multiple Transmitter Evaluation

### 8.3.1 Simultaneous SAR test evaluation

#### • Simultaneous Transmission Possibilities

| No. | Simultaneous Tx Combination                   | Head | Body-worn | Hotspot | Product Specific 10-g (0mm) |
|-----|-----------------------------------------------|------|-----------|---------|-----------------------------|
| 1   | WWAN + WLAN 2.4GHz (Ant 22)                   | Yes  | Yes       | Yes     | Yes                         |
| 2   | WWAN + WLAN 2.4GHz (Ant 24)                   | Yes  | Yes       | Yes     | Yes                         |
| 3   | WWAN + WLAN 2.4GHz MIMO                       | Yes  | Yes       | Yes     | Yes                         |
| 4   | WWAN + WLAN 5GHz (Ant 22)                     | Yes  | Yes       | Yes     | Yes                         |
| 5   | WWAN + WLAN 5GHz (Ant 24)                     | Yes  | Yes       | Yes     | Yes                         |
| 6   | WWAN + WLAN 5GHz MIMO                         | Yes  | Yes       | Yes     | Yes                         |
| 7   | WWAN + BT (Ant 22)                            | Yes  | Yes       | Yes     | Yes                         |
| 8   | WWAN + BT (Ant 24)                            | Yes  | Yes       | Yes     | Yes                         |
| 9   | WWAN + WLAN 2.4GHz (Ant 22) + BT (Ant 24)     | Yes  | Yes       | Yes     | Yes                         |
| 10  | WWAN + WLAN 2.4GHz (Ant 24) + BT (Ant 22)     | Yes  | Yes       | Yes     | Yes                         |
| 11  | WWAN + WLAN 5GHz (Ant 22) + BT (Ant 22)       | Yes  | Yes       | Yes     | Yes                         |
| 12  | WWAN + WLAN 5GHz (Ant 24) + BT (Ant 22)       | Yes  | Yes       | Yes     | Yes                         |
| 13  | WWAN + WLAN 5GHz MIMO + BT (Ant 22)           | Yes  | Yes       | Yes     | Yes                         |
| 14  | WWAN + WLAN 5GHz (Ant 22) + BT (Ant 24)       | Yes  | Yes       | Yes     | Yes                         |
| 15  | WWAN + WLAN 5GHz (Ant 24) + BT (Ant 24)       | Yes  | Yes       | Yes     | Yes                         |
| 16  | WWAN + WLAN 5GHz MIMO + BT (Ant 24)           | Yes  | Yes       | Yes     | Yes                         |
| 17  | WLAN 2.4GHz (Ant 24) + BT (Ant 22)            | Yes  | Yes       | Yes     | Yes                         |
| 18  | WLAN 2.4GHz (Ant 22) + BT (Ant 24)            | Yes  | Yes       | Yes     | Yes                         |
| 19  | WLAN 5GHz (Ant 22) + BT (Ant 22)              | Yes  | Yes       | Yes     | Yes                         |
| 20  | WLAN 5GHz (Ant 24) + BT (Ant 22)              | Yes  | Yes       | Yes     | Yes                         |
| 21  | WLAN 5GHz MIMO + BT (Ant 22)                  | Yes  | Yes       | Yes     | Yes                         |
| 22  | WLAN 5GHz (Ant 22) + BT (Ant 24)              | Yes  | Yes       | Yes     | Yes                         |
| 23  | WLAN 5GHz (Ant 24) + BT (Ant 24)              | Yes  | Yes       | Yes     | Yes                         |
| 24  | WLAN 5GHz MIMO + BT (Ant 24)                  | Yes  | Yes       | Yes     | Yes                         |
| 25  | WWAN + WLAN 2.4GHz (Ant 22)+NFC               | /    | /         | /       | Yes                         |
| 26  | WWAN + WLAN 2.4GHz (Ant 24)+NFC               | /    | /         | /       | Yes                         |
| 27  | WWAN + WLAN 2.4GHz MIMO+NFC                   | /    | /         | /       | Yes                         |
| 28  | WWAN + WLAN 5GHz (Ant 22)+NFC                 | /    | /         | /       | Yes                         |
| 29  | WWAN + WLAN 5GHz (Ant 24)+NFC                 | /    | /         | /       | Yes                         |
| 30  | WWAN + WLAN 5GHz MIMO+NFC                     | /    | /         | /       | Yes                         |
| 31  | WWAN + BT (Ant 22)+NFC                        | /    | /         | /       | Yes                         |
| 32  | WWAN + BT (Ant 24)+NFC                        | /    | /         | /       | Yes                         |
| 33  | WWAN + WLAN 2.4GHz (Ant 22) + BT (Ant 24)+NFC | /    | /         | /       | Yes                         |
| 34  | WWAN + WLAN 2.4GHz (Ant 24) + BT (Ant 22)+NFC | /    | /         | /       | Yes                         |
| 35  | WWAN + WLAN 5GHz (Ant 22) + BT (Ant 22)+NFC   | /    | /         | /       | Yes                         |
| 36  | WWAN + WLAN 5GHz (Ant 24) + BT (Ant 22)+NFC   | /    | /         | /       | Yes                         |
| 37  | WWAN + WLAN 5GHz MIMO + BT (Ant 22)+NFC       | /    | /         | /       | Yes                         |
| 38  | WWAN + WLAN 5GHz (Ant 22) + BT (Ant 24)+NFC   | /    | /         | /       | Yes                         |
| 39  | WWAN + WLAN 5GHz (Ant 24) + BT (Ant 24)+NFC   | /    | /         | /       | Yes                         |
| 40  | WWAN + WLAN 5GHz MIMO + BT (Ant 24)+NFC       | /    | /         | /       | Yes                         |
| 41  | WLAN 2.4GHz (Ant 24) + BT (Ant 22)+NFC        | /    | /         | /       | Yes                         |
| 42  | WLAN 2.4GHz (Ant 22) + BT (Ant 24)+NFC        | /    | /         | /       | Yes                         |
| 43  | WLAN 5GHz (Ant 22) + BT (Ant 22)+NFC          | /    | /         | /       | Yes                         |
| 44  | WLAN 5GHz (Ant 24) + BT (Ant 22)+NFC          | /    | /         | /       | Yes                         |
| 45  | WLAN 5GHz MIMO + BT (Ant 22)+NFC              | /    | /         | /       | Yes                         |



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|    |                                      |   |   |   |     |
|----|--------------------------------------|---|---|---|-----|
| 46 | WLAN 5GHz (Ant 22) + BT (Ant 24)+NFC | / | / | / | Yes |
| 47 | WLAN 5GHz (Ant 24) + BT (Ant 24)+NFC | / | / | / | Yes |
| 48 | WLAN 5GHz MIMO + BT (Ant 24)+NFC     | / | / | / | Yes |

**Note:**

- 1) The device does not support DTM function.
- 2) NFC is different from the working scenario of WWAN/WIFI(Head/Body-worn/Hotspot) and does not participate in the simultaneous transmission.
- 3) The NFC test data can be referred to NFC SAR test report (Report NO.:SEWM2305000166RG09).
- 4) For WiFi 5G,U-NII-2A and U-NII-2C band does not support hotspot function.



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## 8.3.2 Simultaneous Transmission SAR Summation Scenario

Head:

| Test position |              | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |
|---------------|--------------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|
|               |              | Main Ant11    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |
|               |              | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |
| GSM850        | Left cheek   | 0.439         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.056         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.268         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.052         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| WCDMA B5      | Left cheek   | 0.700         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.090         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.305         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.070         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| CDMA BC0      | Left cheek   | 0.605         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.073         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.253         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.070         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| LTE B12       | Left cheek   | 0.268         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.037         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.112         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.035         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| LTE B13       | Left cheek   | 0.216         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.030         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.100         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.027         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| LTE B26       | Left cheek   | 0.551         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.076         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.220         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.066         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| N26           | Left cheek   | 0.698         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.087         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.307         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.062         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| Summed SAR    |              |               |                 |                 |                |               |               |              |          |          |
| 1+2           | 1+3          | 1+4           | 1+5             | 1+6             | 1+7            | 1+8           | 1+9           | 1+2+9        | 1+3+8    | 1+5+8    |
| 1.051         | 0.621        | 0.882         | 0.904           | 0.516           | 0.828          | 0.655         | 0.503         | 1.115        | 0.837    | 1.120    |
| 0.593         | 0.097        | 0.450         | 0.503           | 0.103           | 0.402          | 0.259         | 0.066         | 0.603        | 0.300    | 0.706    |
| 0.539         | 0.384        | 0.418         | 0.482           | 0.311           | 0.584          | 0.358         | 0.359         | 0.630        | 0.474    | 0.572    |
| 0.330         | 0.053        | 0.189         | 0.275           | 0.086           | 0.360          | 0.149         | 0.055         | 0.333        | 0.150    | 0.372    |
| 1.312         | 0.882        | 1.143         | 1.165           | 0.777           | 1.089          | 0.916         | 0.764         | 1.376        | 1.098    | 1.381    |
| 0.627         | 0.131        | 0.484         | 0.537           | 0.137           | 0.436          | 0.293         | 0.100         | 0.637        | 0.334    | 0.740    |
| 0.576         | 0.421        | 0.455         | 0.519           | 0.348           | 0.621          | 0.395         | 0.396         | 0.667        | 0.511    | 0.609    |
| 0.348         | 0.071        | 0.207         | 0.293           | 0.104           | 0.378          | 0.167         | 0.073         | 0.351        | 0.168    | 0.390    |
| 1.217         | 0.787        | 1.048         | 1.070           | 0.682           | 0.994          | 0.821         | 0.669         | 1.281        | 1.003    | 1.286    |
| 0.610         | 0.114        | 0.467         | 0.520           | 0.120           | 0.419          | 0.276         | 0.083         | 0.620        | 0.317    | 0.723    |
| 0.524         | 0.369        | 0.403         | 0.467           | 0.296           | 0.569          | 0.343         | 0.344         | 0.615        | 0.459    | 0.557    |
| 0.348         | 0.071        | 0.207         | 0.293           | 0.104           | 0.378          | 0.167         | 0.073         | 0.351        | 0.168    | 0.390    |
| 0.880         | 0.450        | 0.711         | 0.733           | 0.345           | 0.657          | 0.484         | 0.332         | 0.944        | 0.666    | 0.949    |
| 0.574         | 0.078        | 0.431         | 0.484           | 0.084           | 0.383          | 0.240         | 0.047         | 0.584        | 0.281    | 0.687    |
| 0.383         | 0.228        | 0.262         | 0.326           | 0.155           | 0.428          | 0.202         | 0.203         | 0.474        | 0.318    | 0.416    |
| 0.313         | 0.036        | 0.172         | 0.258           | 0.069           | 0.343          | 0.132         | 0.038         | 0.316        | 0.133    | 0.355    |
| 0.828         | 0.398        | 0.659         | 0.681           | 0.293           | 0.605          | 0.432         | 0.280         | 0.892        | 0.614    | 0.897    |
| 0.567         | 0.071        | 0.424         | 0.477           | 0.077           | 0.376          | 0.233         | 0.040         | 0.577        | 0.274    | 0.680    |
| 0.371         | 0.216        | 0.250         | 0.314           | 0.143           | 0.416          | 0.190         | 0.191         | 0.462        | 0.306    | 0.404    |
| 0.305         | 0.028        | 0.164         | 0.250           | 0.061           | 0.335          | 0.124         | 0.030         | 0.308        | 0.125    | 0.347    |
| 1.163         | 0.733        | 0.994         | 1.016           | 0.628           | 0.940          | 0.767         | 0.615         | 1.227        | 0.949    | 1.232    |
| 0.613         | 0.117        | 0.470         | 0.523           | 0.123           | 0.422          | 0.279         | 0.086         | 0.623        | 0.320    | 0.726    |
| 0.491         | 0.336        | 0.370         | 0.434           | 0.263           | 0.536          | 0.310         | 0.311         | 0.582        | 0.426    | 0.524    |
| 0.344         | 0.067        | 0.203         | 0.289           | 0.100           | 0.374          | 0.163         | 0.069         | 0.347        | 0.164    | 0.386    |
| 1.310         | 0.880        | 1.141         | 1.163           | 0.775           | 1.087          | 0.914         | 0.762         | 1.374        | 1.096    | 1.379    |
| 0.624         | 0.128        | 0.481         | 0.534           | 0.134           | 0.433          | 0.290         | 0.097         | 0.634        | 0.331    | 0.737    |
| 0.578         | 0.423        | 0.457         | 0.521           | 0.350           | 0.623          | 0.397         | 0.398         | 0.669        | 0.513    | 0.611    |
| 0.340         | 0.063        | 0.199         | 0.285           | 0.096           | 0.370          | 0.159         | 0.065         | 0.343        | 0.160    | 0.382    |
|               |              |               |                 |                 |                |               |               |              |          | 0.193    |
|               |              |               |                 |                 |                |               |               |              |          | 0.467    |
|               |              |               |                 |                 |                |               |               |              |          | 0.288    |
|               |              |               |                 |                 |                |               |               |              |          | 0.099    |
|               |              |               |                 |                 |                |               |               |              |          | 0.373    |



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| Test position     |              |       | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |
|-------------------|--------------|-------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|
|                   |              |       | Main Ant12    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |
|                   |              |       | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |
| N7                | Left cheek   | 0.155 | 0.612         | 0.182           | 0.443           | 0.465          | 0.077         | 0.389         | 0.216        | 0.064    |          |       |       |       |       |
|                   | Left tilted  | 0.101 | 0.537         | 0.041           | 0.394           | 0.447          | 0.047         | 0.346         | 0.203        | 0.010    |          |       |       |       |       |
|                   | Right cheek  | 0.525 | 0.271         | 0.116           | 0.150           | 0.214          | 0.043         | 0.316         | 0.090        | 0.091    |          |       |       |       |       |
|                   | Right tilted | 0.204 | 0.278         | 0.001           | 0.137           | 0.223          | 0.034         | 0.308         | 0.097        | 0.003    |          |       |       |       |       |
| N38               | Left cheek   | 0.304 | 0.612         | 0.182           | 0.443           | 0.465          | 0.077         | 0.389         | 0.216        | 0.064    |          |       |       |       |       |
|                   | Left tilted  | 0.152 | 0.537         | 0.041           | 0.394           | 0.447          | 0.047         | 0.346         | 0.203        | 0.010    |          |       |       |       |       |
|                   | Right cheek  | 0.740 | 0.271         | 0.116           | 0.150           | 0.214          | 0.043         | 0.316         | 0.090        | 0.091    |          |       |       |       |       |
|                   | Right tilted | 0.346 | 0.278         | 0.001           | 0.137           | 0.223          | 0.034         | 0.308         | 0.097        | 0.003    |          |       |       |       |       |
| N41               | Left cheek   | 0.177 | 0.612         | 0.182           | 0.443           | 0.465          | 0.077         | 0.389         | 0.216        | 0.064    |          |       |       |       |       |
|                   | Left tilted  | 0.131 | 0.537         | 0.041           | 0.394           | 0.447          | 0.047         | 0.346         | 0.203        | 0.010    |          |       |       |       |       |
|                   | Right cheek  | 0.708 | 0.271         | 0.116           | 0.150           | 0.214          | 0.043         | 0.316         | 0.090        | 0.091    |          |       |       |       |       |
|                   | Right tilted | 0.259 | 0.278         | 0.001           | 0.137           | 0.223          | 0.034         | 0.308         | 0.097        | 0.003    |          |       |       |       |       |
| NSA N66           | Left cheek   | 0.091 | 0.612         | 0.182           | 0.443           | 0.465          | 0.077         | 0.389         | 0.216        | 0.064    |          |       |       |       |       |
|                   | Left tilted  | 0.049 | 0.537         | 0.041           | 0.394           | 0.447          | 0.047         | 0.346         | 0.203        | 0.010    |          |       |       |       |       |
|                   | Right cheek  | 0.419 | 0.271         | 0.116           | 0.150           | 0.214          | 0.043         | 0.316         | 0.090        | 0.091    |          |       |       |       |       |
|                   | Right tilted | 0.111 | 0.278         | 0.001           | 0.137           | 0.223          | 0.034         | 0.308         | 0.097        | 0.003    |          |       |       |       |       |
| ENDC LTE B7       | Left cheek   | 0.165 | 0.612         | 0.182           | 0.443           | 0.465          | 0.077         | 0.389         | 0.216        | 0.064    |          |       |       |       |       |
|                   | Left tilted  | 0.100 | 0.537         | 0.041           | 0.394           | 0.447          | 0.047         | 0.346         | 0.203        | 0.010    |          |       |       |       |       |
|                   | Right cheek  | 0.516 | 0.271         | 0.116           | 0.150           | 0.214          | 0.043         | 0.316         | 0.090        | 0.091    |          |       |       |       |       |
|                   | Right tilted | 0.210 | 0.278         | 0.001           | 0.137           | 0.223          | 0.034         | 0.308         | 0.097        | 0.003    |          |       |       |       |       |
| Inter-band LTE B4 | Left cheek   | 0.079 | 0.612         | 0.182           | 0.443           | 0.465          | 0.077         | 0.389         | 0.216        | 0.064    |          |       |       |       |       |
|                   | Left tilted  | 0.043 | 0.537         | 0.041           | 0.394           | 0.447          | 0.047         | 0.346         | 0.203        | 0.010    |          |       |       |       |       |
|                   | Right cheek  | 0.358 | 0.271         | 0.116           | 0.150           | 0.214          | 0.043         | 0.316         | 0.090        | 0.091    |          |       |       |       |       |
|                   | Right tilted | 0.097 | 0.278         | 0.001           | 0.137           | 0.223          | 0.034         | 0.308         | 0.097        | 0.003    |          |       |       |       |       |
| Summed SAR        |              |       |               |                 |                 |                |               |               |              |          |          |       |       |       |       |
| 1+2               | 1+3          | 1+4   | 1+5           | 1+6             | 1+7             | 1+8            | 1+9           | 1+2+9         | 1+3+8        | 1+5+8    | 1+6+8    | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.767             | 0.337        | 0.598 | 0.620         | 0.232           | 0.544           | 0.371          | 0.219         | 0.831         | 0.553        | 0.836    | 0.448    | 0.760 | 0.684 | 0.296 | 0.608 |
| 0.638             | 0.142        | 0.495 | 0.548         | 0.148           | 0.447           | 0.304          | 0.111         | 0.648         | 0.345        | 0.751    | 0.351    | 0.650 | 0.558 | 0.158 | 0.457 |
| 0.796             | 0.641        | 0.675 | 0.739         | 0.568           | 0.841           | 0.615          | 0.616         | 0.887         | 0.731        | 0.829    | 0.658    | 0.931 | 0.830 | 0.659 | 0.932 |
| 0.482             | 0.205        | 0.341 | 0.427         | 0.238           | 0.512           | 0.301          | 0.207         | 0.485         | 0.302        | 0.524    | 0.335    | 0.609 | 0.430 | 0.241 | 0.515 |
| 0.916             | 0.486        | 0.747 | 0.769         | 0.381           | 0.693           | 0.520          | 0.368         | 0.980         | 0.702        | 0.985    | 0.597    | 0.909 | 0.833 | 0.445 | 0.757 |
| 0.689             | 0.193        | 0.546 | 0.599         | 0.199           | 0.498           | 0.355          | 0.162         | 0.699         | 0.396        | 0.802    | 0.402    | 0.701 | 0.609 | 0.209 | 0.508 |
| 1.011             | 0.856        | 0.890 | 0.954         | 0.783           | 1.056           | 0.830          | 0.831         | 1.102         | 0.946        | 1.044    | 0.873    | 1.146 | 1.045 | 0.874 | 1.147 |
| 0.624             | 0.347        | 0.483 | 0.569         | 0.380           | 0.654           | 0.443          | 0.349         | 0.627         | 0.444        | 0.666    | 0.477    | 0.751 | 0.572 | 0.383 | 0.657 |
| 0.789             | 0.359        | 0.620 | 0.642         | 0.254           | 0.566           | 0.393          | 0.241         | 0.853         | 0.575        | 0.858    | 0.470    | 0.782 | 0.706 | 0.318 | 0.630 |
| 0.668             | 0.172        | 0.525 | 0.578         | 0.178           | 0.477           | 0.334          | 0.141         | 0.678         | 0.375        | 0.781    | 0.381    | 0.680 | 0.588 | 0.188 | 0.487 |
| 0.979             | 0.824        | 0.858 | 0.922         | 0.751           | 1.024           | 0.798          | 0.799         | 1.070         | 0.914        | 1.012    | 0.841    | 1.114 | 1.013 | 0.842 | 1.115 |
| 0.537             | 0.260        | 0.396 | 0.482         | 0.293           | 0.567           | 0.356          | 0.262         | 0.540         | 0.357        | 0.579    | 0.390    | 0.664 | 0.485 | 0.296 | 0.570 |
| 0.703             | 0.273        | 0.534 | 0.556         | 0.168           | 0.480           | 0.307          | 0.155         | 0.767         | 0.489        | 0.772    | 0.384    | 0.696 | 0.620 | 0.232 | 0.544 |
| 0.586             | 0.090        | 0.443 | 0.496         | 0.096           | 0.395           | 0.252          | 0.059         | 0.596         | 0.293        | 0.699    | 0.299    | 0.598 | 0.506 | 0.106 | 0.405 |
| 0.690             | 0.535        | 0.569 | 0.633         | 0.462           | 0.735           | 0.509          | 0.510         | 0.781         | 0.625        | 0.723    | 0.552    | 0.825 | 0.724 | 0.553 | 0.826 |
| 0.389             | 0.112        | 0.248 | 0.334         | 0.145           | 0.419           | 0.208          | 0.114         | 0.392         | 0.209        | 0.431    | 0.242    | 0.516 | 0.337 | 0.148 | 0.422 |
| 0.777             | 0.347        | 0.608 | 0.630         | 0.242           | 0.554           | 0.381          | 0.229         | 0.841         | 0.563        | 0.846    | 0.458    | 0.770 | 0.694 | 0.306 | 0.618 |
| 0.637             | 0.141        | 0.494 | 0.547         | 0.147           | 0.446           | 0.303          | 0.110         | 0.647         | 0.344        | 0.750    | 0.350    | 0.649 | 0.557 | 0.157 | 0.456 |
| 0.787             | 0.632        | 0.666 | 0.730         | 0.559           | 0.832           | 0.606          | 0.607         | 0.878         | 0.722        | 0.820    | 0.649    | 0.922 | 0.821 | 0.650 | 0.923 |
| 0.488             | 0.211        | 0.347 | 0.433         | 0.244           | 0.518           | 0.307          | 0.213         | 0.491         | 0.308        | 0.530    | 0.341    | 0.615 | 0.436 | 0.247 | 0.521 |
| 0.691             | 0.261        | 0.522 | 0.544         | 0.156           | 0.468           | 0.295          | 0.143         | 0.755         | 0.477        | 0.760    | 0.372    | 0.684 | 0.608 | 0.220 | 0.532 |
| 0.580             | 0.084        | 0.437 | 0.490         | 0.090           | 0.389           | 0.246          | 0.053         | 0.590         | 0.287        | 0.693    | 0.293    | 0.592 | 0.500 | 0.100 | 0.399 |
| 0.629             | 0.474        | 0.508 | 0.572         | 0.401           | 0.674           | 0.448          | 0.449         | 0.720         | 0.564        | 0.662    | 0.491    | 0.764 | 0.663 | 0.492 | 0.765 |
| 0.375             | 0.098        | 0.234 | 0.320         | 0.131           | 0.405           | 0.194          | 0.100         | 0.378         | 0.195        | 0.417    | 0.228    | 0.502 | 0.323 | 0.134 | 0.408 |



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| Test position      |              |       | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |
|--------------------|--------------|-------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|
|                    |              |       | Main Ant13    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |
|                    |              |       | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |
| N77<br>(3450-3550) | Left cheek   |       | 0.207         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |       |       |       |       |
|                    | Left tilted  |       | 0.222         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |       |       |       |       |
|                    | Right cheek  |       | 0.592         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |       |       |       |       |
|                    | Right tilted |       | 0.535         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |       |       |       |       |
| N77<br>(3700-3980) | Left cheek   |       | 0.113         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |       |       |       |       |
|                    | Left tilted  |       | 0.122         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |       |       |       |       |
|                    | Right cheek  |       | 0.387         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |       |       |       |       |
|                    | Right tilted |       | 0.308         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |       |       |       |       |
| N78<br>(3450-3550) | Left cheek   |       | 0.286         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |       |       |       |       |
|                    | Left tilted  |       | 0.285         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |       |       |       |       |
|                    | Right cheek  |       | 0.670         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |       |       |       |       |
|                    | Right tilted |       | 0.586         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |       |       |       |       |
| N78<br>(3700-3800) | Left cheek   |       | 0.143         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |       |       |       |       |
|                    | Left tilted  |       | 0.157         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |       |       |       |       |
|                    | Right cheek  |       | 0.319         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |       |       |       |       |
|                    | Right tilted |       | 0.399         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |       |       |       |       |
| Summed SAR         |              |       |               |                 |                 |                |               |               |              |          |          |       |       |       |       |
| 1+2                | 1+3          | 1+4   | 1+5           | 1+6             | 1+7             | 1+8            | 1+9           | 1+2+9         | 1+3+8        | 1+5+8    | 1+6+8    | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.819              | 0.389        | 0.650 | 0.672         | 0.284           | 0.596           | 0.423          | 0.271         | 0.883         | 0.605        | 0.888    | 0.500    | 0.812 | 0.736 | 0.348 | 0.660 |
| 0.759              | 0.263        | 0.616 | 0.669         | 0.269           | 0.568           | 0.425          | 0.232         | 0.769         | 0.466        | 0.872    | 0.472    | 0.771 | 0.679 | 0.279 | 0.578 |
| 0.863              | 0.708        | 0.742 | 0.806         | 0.635           | 0.908           | 0.682          | 0.683         | 0.954         | 0.798        | 0.896    | 0.725    | 0.998 | 0.897 | 0.726 | 0.999 |
| 0.813              | 0.536        | 0.672 | 0.758         | 0.569           | 0.843           | 0.632          | 0.538         | 0.816         | 0.633        | 0.855    | 0.666    | 0.940 | 0.761 | 0.572 | 0.846 |
| 0.725              | 0.295        | 0.556 | 0.578         | 0.190           | 0.502           | 0.329          | 0.177         | 0.789         | 0.511        | 0.794    | 0.406    | 0.718 | 0.642 | 0.254 | 0.566 |
| 0.659              | 0.163        | 0.516 | 0.569         | 0.169           | 0.468           | 0.325          | 0.132         | 0.669         | 0.366        | 0.772    | 0.372    | 0.671 | 0.579 | 0.179 | 0.478 |
| 0.658              | 0.503        | 0.537 | 0.601         | 0.430           | 0.703           | 0.477          | 0.478         | 0.749         | 0.593        | 0.691    | 0.520    | 0.793 | 0.692 | 0.521 | 0.794 |
| 0.586              | 0.309        | 0.445 | 0.531         | 0.342           | 0.616           | 0.405          | 0.311         | 0.589         | 0.406        | 0.628    | 0.439    | 0.713 | 0.534 | 0.345 | 0.619 |
| 0.898              | 0.468        | 0.729 | 0.751         | 0.363           | 0.675           | 0.502          | 0.350         | 0.962         | 0.684        | 0.967    | 0.579    | 0.891 | 0.815 | 0.427 | 0.739 |
| 0.822              | 0.326        | 0.679 | 0.732         | 0.332           | 0.631           | 0.488          | 0.295         | 0.832         | 0.529        | 0.935    | 0.535    | 0.834 | 0.742 | 0.342 | 0.641 |
| 0.941              | 0.786        | 0.820 | 0.884         | 0.713           | 0.986           | 0.760          | 0.761         | 1.032         | 0.876        | 0.974    | 0.803    | 1.076 | 0.975 | 0.804 | 1.077 |
| 0.864              | 0.587        | 0.723 | 0.809         | 0.620           | 0.894           | 0.683          | 0.589         | 0.867         | 0.684        | 0.906    | 0.717    | 0.991 | 0.812 | 0.623 | 0.897 |
| 0.755              | 0.325        | 0.586 | 0.608         | 0.220           | 0.532           | 0.359          | 0.207         | 0.819         | 0.541        | 0.824    | 0.436    | 0.748 | 0.672 | 0.284 | 0.596 |
| 0.694              | 0.198        | 0.551 | 0.604         | 0.204           | 0.503           | 0.360          | 0.167         | 0.704         | 0.401        | 0.807    | 0.407    | 0.706 | 0.614 | 0.214 | 0.513 |
| 0.590              | 0.435        | 0.469 | 0.533         | 0.362           | 0.635           | 0.409          | 0.410         | 0.681         | 0.525        | 0.623    | 0.452    | 0.725 | 0.624 | 0.453 | 0.726 |
| 0.677              | 0.400        | 0.536 | 0.622         | 0.433           | 0.707           | 0.496          | 0.402         | 0.680         | 0.497        | 0.719    | 0.530    | 0.804 | 0.625 | 0.436 | 0.710 |



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| Test position      |              | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |       |
|--------------------|--------------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|-------|
|                    |              | Main Ant14    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |       |
|                    |              | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |       |
| N77<br>(3450-3550) | Left cheek   | 0.028         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |       |       |       |       |       |
|                    | Left tilted  | 0.027         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |       |       |       |       |       |
|                    | Right cheek  | 0.083         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |       |       |       |       |       |
|                    | Right tilted | 0.079         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |       |       |       |       |       |
| N77<br>(3700-3980) | Left cheek   | 0.014         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |       |       |       |       |       |
|                    | Left tilted  | 0.012         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |       |       |       |       |       |
|                    | Right cheek  | 0.042         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |       |       |       |       |       |
|                    | Right tilted | 0.035         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |       |       |       |       |       |
| N78<br>(3450-3550) | Left cheek   | 0.022         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |       |       |       |       |       |
|                    | Left tilted  | 0.025         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |       |       |       |       |       |
|                    | Right cheek  | 0.067         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |       |       |       |       |       |
|                    | Right tilted | 0.066         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |       |       |       |       |       |
| N78<br>(3700-3800) | Left cheek   | 0.014         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |       |       |       |       |       |
|                    | Left tilted  | 0.014         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |       |       |       |       |       |
|                    | Right cheek  | 0.037         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |       |       |       |       |       |
|                    | Right tilted | 0.028         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |       |       |       |       |       |
| Summed SAR         |              |               |                 |                 |                |               |               |              |          |          |       |       |       |       |       |
| 1+2                | 1+3          | 1+4           | 1+5             | 1+6             | 1+7            | 1+8           | 1+9           | 1+2+9        | 1+3+8    | 1+5+8    | 1+6+8 | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.640              | 0.210        | 0.471         | 0.493           | 0.105           | 0.417          | 0.244         | 0.092         | 0.704        | 0.426    | 0.709    | 0.321 | 0.633 | 0.557 | 0.169 | 0.481 |
| 0.564              | 0.068        | 0.421         | 0.474           | 0.074           | 0.373          | 0.230         | 0.037         | 0.574        | 0.271    | 0.677    | 0.277 | 0.576 | 0.484 | 0.084 | 0.383 |
| 0.354              | 0.199        | 0.233         | 0.297           | 0.126           | 0.399          | 0.173         | 0.174         | 0.445        | 0.289    | 0.387    | 0.216 | 0.489 | 0.388 | 0.217 | 0.490 |
| 0.357              | 0.080        | 0.216         | 0.302           | 0.113           | 0.387          | 0.176         | 0.082         | 0.360        | 0.177    | 0.399    | 0.210 | 0.484 | 0.305 | 0.116 | 0.390 |
| 0.626              | 0.196        | 0.457         | 0.479           | 0.091           | 0.403          | 0.230         | 0.078         | 0.690        | 0.412    | 0.695    | 0.307 | 0.619 | 0.543 | 0.155 | 0.467 |
| 0.549              | 0.053        | 0.406         | 0.459           | 0.059           | 0.358          | 0.215         | 0.022         | 0.559        | 0.256    | 0.662    | 0.262 | 0.561 | 0.469 | 0.069 | 0.368 |
| 0.313              | 0.158        | 0.192         | 0.256           | 0.085           | 0.358          | 0.132         | 0.133         | 0.404        | 0.248    | 0.346    | 0.175 | 0.448 | 0.347 | 0.176 | 0.449 |
| 0.313              | 0.036        | 0.172         | 0.258           | 0.069           | 0.343          | 0.132         | 0.038         | 0.316        | 0.133    | 0.355    | 0.166 | 0.440 | 0.261 | 0.072 | 0.346 |
| 0.634              | 0.204        | 0.465         | 0.487           | 0.099           | 0.411          | 0.238         | 0.086         | 0.698        | 0.420    | 0.703    | 0.315 | 0.627 | 0.551 | 0.163 | 0.475 |
| 0.562              | 0.066        | 0.419         | 0.472           | 0.072           | 0.371          | 0.228         | 0.035         | 0.572        | 0.269    | 0.675    | 0.275 | 0.574 | 0.482 | 0.082 | 0.381 |
| 0.338              | 0.183        | 0.217         | 0.281           | 0.110           | 0.383          | 0.157         | 0.158         | 0.429        | 0.273    | 0.371    | 0.200 | 0.473 | 0.372 | 0.201 | 0.474 |
| 0.344              | 0.067        | 0.203         | 0.289           | 0.100           | 0.374          | 0.163         | 0.069         | 0.347        | 0.164    | 0.386    | 0.197 | 0.471 | 0.292 | 0.103 | 0.377 |
| 0.626              | 0.196        | 0.457         | 0.479           | 0.091           | 0.403          | 0.230         | 0.078         | 0.690        | 0.412    | 0.695    | 0.307 | 0.619 | 0.543 | 0.155 | 0.467 |
| 0.551              | 0.055        | 0.408         | 0.461           | 0.061           | 0.360          | 0.217         | 0.024         | 0.561        | 0.258    | 0.664    | 0.264 | 0.563 | 0.471 | 0.071 | 0.370 |
| 0.308              | 0.153        | 0.187         | 0.251           | 0.080           | 0.353          | 0.127         | 0.128         | 0.399        | 0.243    | 0.341    | 0.170 | 0.443 | 0.342 | 0.171 | 0.444 |
| 0.306              | 0.029        | 0.165         | 0.251           | 0.062           | 0.336          | 0.125         | 0.031         | 0.309        | 0.126    | 0.348    | 0.159 | 0.433 | 0.254 | 0.065 | 0.339 |



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| Test position |              |       | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |
|---------------|--------------|-------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|
|               |              |       | Main Ant15    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |
|               |              |       | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |
| LTE B41       | Left cheek   | 0.297 | 0.612         | 0.182           | 0.443           | 0.465          | 0.077         | 0.389         | 0.216        | 0.064    |          |       |       |       |       |
|               | Left tilted  | 0.349 | 0.537         | 0.041           | 0.394           | 0.447          | 0.047         | 0.346         | 0.203        | 0.010    |          |       |       |       |       |
|               | Right cheek  | 0.657 | 0.271         | 0.116           | 0.150           | 0.214          | 0.043         | 0.316         | 0.090        | 0.091    |          |       |       |       |       |
|               | Right tilted | 0.406 | 0.278         | 0.001           | 0.137           | 0.223          | 0.034         | 0.308         | 0.097        | 0.003    |          |       |       |       |       |
| N7            | Left cheek   | 0.309 | 0.612         | 0.182           | 0.443           | 0.465          | 0.077         | 0.389         | 0.216        | 0.064    |          |       |       |       |       |
|               | Left tilted  | 0.308 | 0.537         | 0.041           | 0.394           | 0.447          | 0.047         | 0.346         | 0.203        | 0.010    |          |       |       |       |       |
|               | Right cheek  | 0.644 | 0.271         | 0.116           | 0.150           | 0.214          | 0.043         | 0.316         | 0.090        | 0.091    |          |       |       |       |       |
|               | Right tilted | 0.466 | 0.278         | 0.001           | 0.137           | 0.223          | 0.034         | 0.308         | 0.097        | 0.003    |          |       |       |       |       |
| Summed SAR    |              |       |               |                 |                 |                |               |               |              |          |          |       |       |       |       |
| 1+2           | 1+3          | 1+4   | 1+5           | 1+6             | 1+7             | 1+8            | 1+9           | 1+2+9         | 1+3+8        | 1+5+8    | 1+6+8    | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.909         | 0.479        | 0.740 | 0.762         | 0.374           | 0.686           | 0.513          | 0.361         | 0.973         | 0.695        | 0.978    | 0.590    | 0.902 | 0.826 | 0.438 | 0.750 |
| 0.886         | 0.390        | 0.743 | 0.796         | 0.396           | 0.695           | 0.552          | 0.359         | 0.896         | 0.593        | 0.999    | 0.599    | 0.898 | 0.806 | 0.406 | 0.705 |
| 0.928         | 0.773        | 0.807 | 0.871         | 0.700           | 0.973           | 0.747          | 0.748         | 1.019         | 0.863        | 0.961    | 0.790    | 1.063 | 0.962 | 0.791 | 1.064 |
| 0.684         | 0.407        | 0.543 | 0.629         | 0.440           | 0.714           | 0.503          | 0.409         | 0.687         | 0.504        | 0.726    | 0.537    | 0.811 | 0.632 | 0.443 | 0.717 |
| 0.921         | 0.491        | 0.752 | 0.774         | 0.386           | 0.698           | 0.525          | 0.373         | 0.985         | 0.707        | 0.990    | 0.602    | 0.914 | 0.838 | 0.450 | 0.762 |
| 0.845         | 0.349        | 0.702 | 0.755         | 0.355           | 0.654           | 0.511          | 0.318         | 0.855         | 0.552        | 0.958    | 0.558    | 0.857 | 0.765 | 0.365 | 0.664 |
| 0.915         | 0.760        | 0.794 | 0.858         | 0.687           | 0.960           | 0.734          | 0.735         | 1.006         | 0.850        | 0.948    | 0.777    | 1.050 | 0.949 | 0.778 | 1.051 |
| 0.744         | 0.467        | 0.603 | 0.689         | 0.500           | 0.774           | 0.563          | 0.469         | 0.747         | 0.564        | 0.786    | 0.597    | 0.871 | 0.692 | 0.503 | 0.777 |



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| Test position      |              | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |
|--------------------|--------------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|
|                    |              | Main Ant21    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |
|                    |              | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |
| N77<br>(3450-3550) | Left cheek   | 0.018         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|                    | Left tilted  | 0.027         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|                    | Right cheek  | 0.019         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|                    | Right tilted | 0.022         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| N77<br>(3700-3980) | Left cheek   | 0.036         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|                    | Left tilted  | 0.040         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|                    | Right cheek  | 0.034         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|                    | Right tilted | 0.038         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| N78<br>(3450-3550) | Left cheek   | 0.030         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|                    | Left tilted  | 0.036         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|                    | Right cheek  | 0.025         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|                    | Right tilted | 0.023         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| N78<br>(3700-3800) | Left cheek   | 0.061         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|                    | Left tilted  | 0.073         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|                    | Right cheek  | 0.051         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|                    | Right tilted | 0.059         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| Summed SAR         |              |               |                 |                 |                |               |               |              |          |          |
| 1+2                | 1+3          | 1+4           | 1+5             | 1+6             | 1+7            | 1+8           | 1+9           | 1+2+9        | 1+3+8    | 1+5+8    |
| 0.630              | 0.200        | 0.461         | 0.483           | 0.095           | 0.407          | 0.234         | 0.082         | 0.694        | 0.416    | 0.699    |
| 0.564              | 0.068        | 0.421         | 0.474           | 0.074           | 0.373          | 0.230         | 0.037         | 0.574        | 0.271    | 0.677    |
| 0.290              | 0.135        | 0.169         | 0.233           | 0.062           | 0.335          | 0.109         | 0.110         | 0.381        | 0.225    | 0.323    |
| 0.300              | 0.023        | 0.159         | 0.245           | 0.056           | 0.330          | 0.119         | 0.025         | 0.303        | 0.120    | 0.342    |
| 0.648              | 0.218        | 0.479         | 0.501           | 0.113           | 0.425          | 0.252         | 0.100         | 0.712        | 0.434    | 0.717    |
| 0.577              | 0.081        | 0.434         | 0.487           | 0.087           | 0.386          | 0.243         | 0.050         | 0.587        | 0.284    | 0.690    |
| 0.305              | 0.150        | 0.184         | 0.248           | 0.077           | 0.350          | 0.124         | 0.125         | 0.396        | 0.240    | 0.338    |
| 0.316              | 0.039        | 0.175         | 0.261           | 0.072           | 0.346          | 0.135         | 0.041         | 0.319        | 0.136    | 0.358    |
| 0.642              | 0.212        | 0.473         | 0.495           | 0.107           | 0.419          | 0.246         | 0.094         | 0.706        | 0.428    | 0.711    |
| 0.573              | 0.077        | 0.430         | 0.483           | 0.083           | 0.382          | 0.239         | 0.046         | 0.583        | 0.280    | 0.686    |
| 0.296              | 0.141        | 0.175         | 0.239           | 0.068           | 0.341          | 0.115         | 0.116         | 0.387        | 0.231    | 0.329    |
| 0.301              | 0.024        | 0.160         | 0.246           | 0.057           | 0.331          | 0.120         | 0.026         | 0.304        | 0.121    | 0.343    |
| 0.673              | 0.243        | 0.504         | 0.526           | 0.138           | 0.450          | 0.277         | 0.125         | 0.737        | 0.459    | 0.742    |
| 0.610              | 0.114        | 0.467         | 0.520           | 0.120           | 0.419          | 0.276         | 0.083         | 0.620        | 0.317    | 0.723    |
| 0.322              | 0.167        | 0.201         | 0.265           | 0.094           | 0.367          | 0.141         | 0.142         | 0.413        | 0.257    | 0.355    |
| 0.337              | 0.060        | 0.196         | 0.282           | 0.093           | 0.367          | 0.156         | 0.062         | 0.340        | 0.157    | 0.379    |
| 0.190              | 0.464        | 0.285         | 0.096           | 0.370           |                |               |               |              |          |          |



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| Test position      |              | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |       |
|--------------------|--------------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|-------|
|                    |              | Main Ant23    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |       |
|                    |              | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |       |
| N38                | Left cheek   | 0.646         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |       |       |       |       |       |
|                    | Left tilted  | 0.215         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |       |       |       |       |       |
|                    | Right cheek  | 0.193         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |       |       |       |       |       |
|                    | Right tilted | 0.071         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |       |       |       |       |       |
| N41                | Left cheek   | 0.708         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |       |       |       |       |       |
|                    | Left tilted  | 0.119         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |       |       |       |       |       |
|                    | Right cheek  | 0.116         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |       |       |       |       |       |
|                    | Right tilted | 0.041         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |       |       |       |       |       |
| N77<br>(3450-3550) | Left cheek   | 0.458         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |       |       |       |       |       |
|                    | Left tilted  | 0.268         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |       |       |       |       |       |
|                    | Right cheek  | 0.106         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |       |       |       |       |       |
|                    | Right tilted | 0.097         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |       |       |       |       |       |
| N77<br>(3700-3980) | Left cheek   | 0.609         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |       |       |       |       |       |
|                    | Left tilted  | 0.514         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |       |       |       |       |       |
|                    | Right cheek  | 0.157         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |       |       |       |       |       |
|                    | Right tilted | 0.161         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |       |       |       |       |       |
| N78<br>(3450-3550) | Left cheek   | 0.387         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |       |       |       |       |       |
|                    | Left tilted  | 0.199         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |       |       |       |       |       |
|                    | Right cheek  | 0.121         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |       |       |       |       |       |
|                    | Right tilted | 0.098         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |       |       |       |       |       |
| N78<br>(3700-3800) | Left cheek   | 0.593         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |       |       |       |       |       |
|                    | Left tilted  | 0.434         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |       |       |       |       |       |
|                    | Right cheek  | 0.199         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |       |       |       |       |       |
|                    | Right tilted | 0.200         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |       |       |       |       |       |
| Summed SAR         |              |               |                 |                 |                |               |               |              |          |          |       |       |       |       |       |
| 1+2                | 1+3          | 1+4           | 1+5             | 1+6             | 1+7            | 1+8           | 1+9           | 1+2+9        | 1+3+8    | 1+5+8    | 1+6+8 | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 1.258              | 0.828        | 1.089         | 1.111           | 0.723           | 1.035          | 0.862         | 0.710         | 1.322        | 1.044    | 1.327    | 0.939 | 1.251 | 1.175 | 0.787 | 1.099 |
| 0.752              | 0.256        | 0.609         | 0.662           | 0.262           | 0.561          | 0.418         | 0.225         | 0.762        | 0.459    | 0.865    | 0.465 | 0.764 | 0.672 | 0.272 | 0.571 |
| 0.464              | 0.309        | 0.343         | 0.407           | 0.236           | 0.509          | 0.283         | 0.284         | 0.555        | 0.399    | 0.497    | 0.326 | 0.599 | 0.498 | 0.327 | 0.600 |
| 0.349              | 0.072        | 0.208         | 0.294           | 0.105           | 0.379          | 0.168         | 0.074         | 0.352        | 0.169    | 0.391    | 0.202 | 0.476 | 0.297 | 0.108 | 0.382 |
| 1.320              | 0.890        | 1.151         | 1.173           | 0.785           | 1.097          | 0.924         | 0.772         | 1.384        | 1.106    | 1.389    | 1.001 | 1.313 | 1.237 | 0.849 | 1.161 |
| 0.656              | 0.160        | 0.513         | 0.566           | 0.166           | 0.465          | 0.322         | 0.129         | 0.666        | 0.363    | 0.769    | 0.369 | 0.668 | 0.576 | 0.176 | 0.475 |
| 0.387              | 0.232        | 0.266         | 0.330           | 0.159           | 0.432          | 0.206         | 0.207         | 0.478        | 0.322    | 0.420    | 0.249 | 0.522 | 0.421 | 0.250 | 0.523 |
| 0.319              | 0.042        | 0.178         | 0.264           | 0.075           | 0.349          | 0.138         | 0.044         | 0.322        | 0.139    | 0.361    | 0.172 | 0.446 | 0.267 | 0.078 | 0.352 |
| 1.070              | 0.640        | 0.901         | 0.923           | 0.535           | 0.847          | 0.674         | 0.522         | 1.134        | 0.856    | 1.139    | 0.751 | 1.063 | 0.987 | 0.599 | 0.911 |
| 0.805              | 0.309        | 0.662         | 0.715           | 0.315           | 0.614          | 0.471         | 0.278         | 0.815        | 0.512    | 0.918    | 0.518 | 0.817 | 0.725 | 0.325 | 0.624 |
| 0.377              | 0.222        | 0.256         | 0.320           | 0.149           | 0.422          | 0.196         | 0.197         | 0.468        | 0.312    | 0.410    | 0.239 | 0.512 | 0.411 | 0.240 | 0.513 |
| 0.375              | 0.098        | 0.234         | 0.320           | 0.131           | 0.405          | 0.194         | 0.100         | 0.378        | 0.195    | 0.417    | 0.228 | 0.502 | 0.323 | 0.134 | 0.408 |
| 1.221              | 0.791        | 1.052         | 1.074           | 0.686           | 0.998          | 0.825         | 0.673         | 1.285        | 1.007    | 1.290    | 0.902 | 1.214 | 1.138 | 0.750 | 1.062 |
| 1.051              | 0.555        | 0.908         | 0.961           | 0.561           | 0.860          | 0.717         | 0.524         | 1.061        | 0.758    | 1.164    | 0.764 | 1.063 | 0.971 | 0.571 | 0.870 |
| 0.428              | 0.273        | 0.307         | 0.371           | 0.200           | 0.473          | 0.247         | 0.248         | 0.519        | 0.363    | 0.461    | 0.290 | 0.563 | 0.462 | 0.291 | 0.564 |
| 0.439              | 0.162        | 0.298         | 0.384           | 0.195           | 0.469          | 0.258         | 0.164         | 0.442        | 0.259    | 0.481    | 0.292 | 0.566 | 0.387 | 0.198 | 0.472 |
| 0.999              | 0.569        | 0.830         | 0.852           | 0.464           | 0.776          | 0.603         | 0.451         | 1.063        | 0.785    | 1.068    | 0.680 | 0.992 | 0.916 | 0.528 | 0.840 |
| 0.736              | 0.240        | 0.593         | 0.646           | 0.246           | 0.545          | 0.402         | 0.209         | 0.746        | 0.443    | 0.849    | 0.449 | 0.748 | 0.656 | 0.256 | 0.555 |
| 0.392              | 0.237        | 0.271         | 0.335           | 0.164           | 0.437          | 0.211         | 0.212         | 0.483        | 0.327    | 0.425    | 0.254 | 0.527 | 0.426 | 0.255 | 0.528 |
| 0.376              | 0.099        | 0.235         | 0.321           | 0.132           | 0.406          | 0.195         | 0.101         | 0.379        | 0.196    | 0.418    | 0.229 | 0.503 | 0.324 | 0.135 | 0.409 |
| 1.205              | 0.775        | 1.036         | 1.058           | 0.670           | 0.982          | 0.809         | 0.657         | 1.269        | 0.991    | 1.274    | 0.886 | 1.198 | 1.122 | 0.734 | 1.046 |
| 0.971              | 0.475        | 0.828         | 0.881           | 0.481           | 0.780          | 0.637         | 0.444         | 0.981        | 0.678    | 1.084    | 0.684 | 0.983 | 0.891 | 0.491 | 0.790 |
| 0.470              | 0.315        | 0.349         | 0.413           | 0.242           | 0.515          | 0.289         | 0.290         | 0.561        | 0.405    | 0.503    | 0.332 | 0.605 | 0.504 | 0.333 | 0.606 |
| 0.478              | 0.201        | 0.337         | 0.423           | 0.234           | 0.508          | 0.297         | 0.203         | 0.481        | 0.298    | 0.520    | 0.331 | 0.605 | 0.426 | 0.237 | 0.511 |



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| Test position |              | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |
|---------------|--------------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|
|               |              | Main Ant31    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |
|               |              | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |
| GSM1900       | Left cheek   | 0.095         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.039         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.062         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.030         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| WCDMA B2      | Left cheek   | 0.203         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.110         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.137         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.169         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| WCDMA B4      | Left cheek   | 0.232         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.055         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.143         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.115         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| LTE B2        | Left cheek   | 0.157         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.063         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.085         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.098         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| LTE B4        | Left cheek   | 0.149         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.046         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.085         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.052         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| LTE B7        | Left cheek   | 0.053         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.064         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.120         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.128         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| LTE B41       | Left cheek   | 0.025         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.027         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.062         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.098         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| LTE B66       | Left cheek   | 0.156         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.052         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.089         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.052         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| N2            | Left cheek   | 0.162         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.066         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.115         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.120         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| N66           | Left cheek   | 0.150         | 0.612           | 0.182           | 0.443          | 0.465         | 0.077         | 0.389        | 0.216    | 0.064    |
|               | Left tilted  | 0.066         | 0.537           | 0.041           | 0.394          | 0.447         | 0.047         | 0.346        | 0.203    | 0.010    |
|               | Right cheek  | 0.112         | 0.271           | 0.116           | 0.150          | 0.214         | 0.043         | 0.316        | 0.090    | 0.091    |
|               | Right tilted | 0.056         | 0.278           | 0.001           | 0.137          | 0.223         | 0.034         | 0.308        | 0.097    | 0.003    |
| Summed SAR    |              |               |                 |                 |                |               |               |              |          |          |
| 1+2           | 1+3          | 1+4           | 1+5             | 1+6             | 1+7            | 1+8           | 1+9           | 1+2+9        | 1+3+8    | 1+5+8    |
| 0.707         | 0.277        | 0.538         | 0.560           | 0.172           | 0.484          | 0.311         | 0.159         | 0.771        | 0.493    | 0.776    |
| 0.576         | 0.080        | 0.433         | 0.486           | 0.086           | 0.385          | 0.242         | 0.049         | 0.586        | 0.283    | 0.689    |
| 0.333         | 0.178        | 0.212         | 0.276           | 0.105           | 0.378          | 0.152         | 0.153         | 0.424        | 0.268    | 0.366    |
| 0.308         | 0.031        | 0.167         | 0.253           | 0.064           | 0.338          | 0.127         | 0.033         | 0.311        | 0.128    | 0.350    |
| 0.815         | 0.385        | 0.646         | 0.668           | 0.280           | 0.592          | 0.419         | 0.267         | 0.879        | 0.601    | 0.884    |
| 0.647         | 0.151        | 0.504         | 0.557           | 0.157           | 0.456          | 0.313         | 0.120         | 0.657        | 0.354    | 0.760    |
| 0.408         | 0.253        | 0.287         | 0.351           | 0.180           | 0.453          | 0.227         | 0.228         | 0.499        | 0.343    | 0.441    |
| 0.447         | 0.170        | 0.306         | 0.392           | 0.203           | 0.477          | 0.266         | 0.172         | 0.450        | 0.267    | 0.489    |
| 0.844         | 0.414        | 0.675         | 0.697           | 0.309           | 0.621          | 0.448         | 0.296         | 0.908        | 0.630    | 0.913    |
| 0.592         | 0.096        | 0.449         | 0.502           | 0.102           | 0.401          | 0.258         | 0.065         | 0.602        | 0.299    | 0.705    |
| 0.414         | 0.259        | 0.293         | 0.357           | 0.186           | 0.459          | 0.233         | 0.234         | 0.505        | 0.349    | 0.447    |
| 0.393         | 0.116        | 0.252         | 0.338           | 0.149           | 0.423          | 0.212         | 0.118         | 0.396        | 0.213    | 0.435    |
| 0.769         | 0.339        | 0.600         | 0.622           | 0.234           | 0.546          | 0.373         | 0.221         | 0.833        | 0.555    | 0.838    |
| 0.600         | 0.104        | 0.457         | 0.510           | 0.110           | 0.409          | 0.266         | 0.073         | 0.610        | 0.307    | 0.713    |
| 0.356         | 0.201        | 0.235         | 0.299           | 0.128           | 0.401          | 0.175         | 0.176         | 0.447        | 0.291    | 0.389    |
| 0.376         | 0.099        | 0.235         | 0.321           | 0.132           | 0.406          | 0.195         | 0.101         | 0.379        | 0.196    | 0.418    |
| 0.761         | 0.331        | 0.592         | 0.614           | 0.226           | 0.538          | 0.365         | 0.213         | 0.825        | 0.547    | 0.830    |
| 0.583         | 0.087        | 0.440         | 0.493           | 0.093           | 0.392          | 0.249         | 0.056         | 0.593        | 0.290    | 0.696    |
| 0.356         | 0.201        | 0.235         | 0.299           | 0.128           | 0.401          | 0.175         | 0.176         | 0.447        | 0.291    | 0.389    |
| 0.330         | 0.053        | 0.189         | 0.275           | 0.086           | 0.360          | 0.149         | 0.055         | 0.333        | 0.150    | 0.372    |
| 0.665         | 0.235        | 0.496         | 0.518           | 0.130           | 0.442          | 0.269         | 0.117         | 0.729        | 0.451    | 0.734    |
| 0.601         | 0.105        | 0.458         | 0.511           | 0.111           | 0.410          | 0.267         | 0.074         | 0.611        | 0.308    | 0.714    |
| 0.391         | 0.236        | 0.270         | 0.334           | 0.163           | 0.436          | 0.210         | 0.211         | 0.482        | 0.326    | 0.424    |
| 0.406         | 0.129        | 0.265         | 0.351           | 0.162           | 0.436          | 0.225         | 0.131         | 0.409        | 0.226    | 0.448    |
| 0.637         | 0.207        | 0.468         | 0.490           | 0.102           | 0.414          | 0.241         | 0.089         | 0.701        | 0.423    | 0.706    |
| 0.564         | 0.068        | 0.421         | 0.474           | 0.074           | 0.373          | 0.230         | 0.037         | 0.574        | 0.271    | 0.677    |
| 0.333         | 0.178        | 0.212         | 0.276           | 0.105           | 0.378          | 0.152         | 0.153         | 0.424        | 0.268    | 0.366    |
| 0.376         | 0.099        | 0.235         | 0.321           | 0.132           | 0.406          | 0.195         | 0.101         | 0.379        | 0.196    | 0.418    |
| 0.768         | 0.338        | 0.599         | 0.621           | 0.233           | 0.545          | 0.372         | 0.220         | 0.832        | 0.554    | 0.837    |
| 0.589         | 0.093        | 0.446         | 0.499           | 0.099           | 0.398          | 0.255         | 0.062         | 0.599        | 0.296    | 0.702    |
| 0.360         | 0.205        | 0.239         | 0.303           | 0.132           | 0.405          | 0.179         | 0.180         | 0.451        | 0.295    | 0.393    |
| 0.330         | 0.053        | 0.189         | 0.275           | 0.086           | 0.360          | 0.149         | 0.055         | 0.333        | 0.150    | 0.372    |
| 0.774         | 0.344        | 0.605         | 0.627           | 0.239           | 0.551          | 0.378         | 0.226         | 0.838        | 0.560    | 0.843    |
| 0.603         | 0.107        | 0.460         | 0.513           | 0.113           | 0.412          | 0.269         | 0.076         | 0.613        | 0.310    | 0.716    |
| 0.386         | 0.231        | 0.265         | 0.329           | 0.158           | 0.431          | 0.205         | 0.206         | 0.477        | 0.321    | 0.419    |
| 0.398         | 0.121        | 0.257         | 0.343           | 0.154           | 0.428          | 0.217         | 0.123         | 0.401        | 0.218    | 0.440    |
| 0.762         | 0.332        | 0.593         | 0.615           | 0.227           | 0.539          | 0.366         | 0.214         | 0.826        | 0.548    | 0.831    |
| 0.603         | 0.107        | 0.460         | 0.513           | 0.113           | 0.412          | 0.269         | 0.076         | 0.613        | 0.310    | 0.716    |
| 0.383         | 0.228        | 0.262         | 0.326           | 0.155           | 0.428          | 0.202         | 0.203         | 0.474        | 0.318    | 0.416    |
| 0.334         | 0.057        | 0.193         | 0.279           | 0.090           | 0.364          | 0.153         | 0.059         | 0.337        | 0.154    | 0.376    |



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# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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| Test position |              |       | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |
|---------------|--------------|-------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|
|               |              |       | Main Ant41    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |
|               |              |       | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |
| GSM850        | Left cheek   | 0.170 | 0.612         | 0.182           | 0.443           | 0.465          | 0.077         | 0.389         | 0.216        | 0.064    |          |       |       |       |       |
|               | Left tilted  | 0.092 | 0.537         | 0.041           | 0.394           | 0.447          | 0.047         | 0.346         | 0.203        | 0.010    |          |       |       |       |       |
|               | Right cheek  | 0.184 | 0.271         | 0.116           | 0.150           | 0.214          | 0.043         | 0.316         | 0.090        | 0.091    |          |       |       |       |       |
|               | Right tilted | 0.090 | 0.278         | 0.001           | 0.137           | 0.223          | 0.034         | 0.308         | 0.097        | 0.003    |          |       |       |       |       |
| WCDMA B5      | Left cheek   | 0.216 | 0.612         | 0.182           | 0.443           | 0.465          | 0.077         | 0.389         | 0.216        | 0.064    |          |       |       |       |       |
|               | Left tilted  | 0.117 | 0.537         | 0.041           | 0.394           | 0.447          | 0.047         | 0.346         | 0.203        | 0.010    |          |       |       |       |       |
|               | Right cheek  | 0.234 | 0.271         | 0.116           | 0.150           | 0.214          | 0.043         | 0.316         | 0.090        | 0.091    |          |       |       |       |       |
|               | Right tilted | 0.106 | 0.278         | 0.001           | 0.137           | 0.223          | 0.034         | 0.308         | 0.097        | 0.003    |          |       |       |       |       |
| CDMA BC0      | Left cheek   | 0.175 | 0.612         | 0.182           | 0.443           | 0.465          | 0.077         | 0.389         | 0.216        | 0.064    |          |       |       |       |       |
|               | Left tilted  | 0.089 | 0.537         | 0.041           | 0.394           | 0.447          | 0.047         | 0.346         | 0.203        | 0.010    |          |       |       |       |       |
|               | Right cheek  | 0.182 | 0.271         | 0.116           | 0.150           | 0.214          | 0.043         | 0.316         | 0.090        | 0.091    |          |       |       |       |       |
|               | Right tilted | 0.083 | 0.278         | 0.001           | 0.137           | 0.223          | 0.034         | 0.308         | 0.097        | 0.003    |          |       |       |       |       |
| LTE B12       | Left cheek   | 0.141 | 0.612         | 0.182           | 0.443           | 0.465          | 0.077         | 0.389         | 0.216        | 0.064    |          |       |       |       |       |
|               | Left tilted  | 0.063 | 0.537         | 0.041           | 0.394           | 0.447          | 0.047         | 0.346         | 0.203        | 0.010    |          |       |       |       |       |
|               | Right cheek  | 0.131 | 0.271         | 0.116           | 0.150           | 0.214          | 0.043         | 0.316         | 0.090        | 0.091    |          |       |       |       |       |
|               | Right tilted | 0.066 | 0.278         | 0.001           | 0.137           | 0.223          | 0.034         | 0.308         | 0.097        | 0.003    |          |       |       |       |       |
| LTE B13       | Left cheek   | 0.111 | 0.612         | 0.182           | 0.443           | 0.465          | 0.077         | 0.389         | 0.216        | 0.064    |          |       |       |       |       |
|               | Left tilted  | 0.053 | 0.537         | 0.041           | 0.394           | 0.447          | 0.047         | 0.346         | 0.203        | 0.010    |          |       |       |       |       |
|               | Right cheek  | 0.099 | 0.271         | 0.116           | 0.150           | 0.214          | 0.043         | 0.316         | 0.090        | 0.091    |          |       |       |       |       |
|               | Right tilted | 0.051 | 0.278         | 0.001           | 0.137           | 0.223          | 0.034         | 0.308         | 0.097        | 0.003    |          |       |       |       |       |
| LTE B26       | Left cheek   | 0.176 | 0.612         | 0.182           | 0.443           | 0.465          | 0.077         | 0.389         | 0.216        | 0.064    |          |       |       |       |       |
|               | Left tilted  | 0.083 | 0.537         | 0.041           | 0.394           | 0.447          | 0.047         | 0.346         | 0.203        | 0.010    |          |       |       |       |       |
|               | Right cheek  | 0.175 | 0.271         | 0.116           | 0.150           | 0.214          | 0.043         | 0.316         | 0.090        | 0.091    |          |       |       |       |       |
|               | Right tilted | 0.085 | 0.278         | 0.001           | 0.137           | 0.223          | 0.034         | 0.308         | 0.097        | 0.003    |          |       |       |       |       |
| N26           | Left cheek   | 0.163 | 0.612         | 0.182           | 0.443           | 0.465          | 0.077         | 0.389         | 0.216        | 0.064    |          |       |       |       |       |
|               | Left tilted  | 0.092 | 0.537         | 0.041           | 0.394           | 0.447          | 0.047         | 0.346         | 0.203        | 0.010    |          |       |       |       |       |
|               | Right cheek  | 0.127 | 0.271         | 0.116           | 0.150           | 0.214          | 0.043         | 0.316         | 0.090        | 0.091    |          |       |       |       |       |
|               | Right tilted | 0.057 | 0.278         | 0.001           | 0.137           | 0.223          | 0.034         | 0.308         | 0.097        | 0.003    |          |       |       |       |       |
| Summed SAR    |              |       |               |                 |                 |                |               |               |              |          |          |       |       |       |       |
| 1+2           | 1+3          | 1+4   | 1+5           | 1+6             | 1+7             | 1+8            | 1+9           | 1+2+9         | 1+3+8        | 1+5+8    | 1+6+8    | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.782         | 0.352        | 0.613 | 0.635         | 0.247           | 0.559           | 0.386          | 0.234         | 0.846         | 0.568        | 0.851    | 0.463    | 0.775 | 0.699 | 0.311 | 0.623 |
| 0.629         | 0.133        | 0.486 | 0.539         | 0.139           | 0.438           | 0.295          | 0.102         | 0.639         | 0.336        | 0.742    | 0.342    | 0.641 | 0.549 | 0.149 | 0.448 |
| 0.455         | 0.300        | 0.334 | 0.398         | 0.227           | 0.500           | 0.274          | 0.275         | 0.546         | 0.390        | 0.488    | 0.317    | 0.590 | 0.489 | 0.318 | 0.591 |
| 0.368         | 0.091        | 0.227 | 0.313         | 0.124           | 0.398           | 0.187          | 0.093         | 0.371         | 0.188        | 0.410    | 0.221    | 0.495 | 0.316 | 0.127 | 0.401 |
| 0.828         | 0.398        | 0.659 | 0.681         | 0.293           | 0.605           | 0.432          | 0.280         | 0.892         | 0.614        | 0.897    | 0.509    | 0.821 | 0.745 | 0.357 | 0.669 |
| 0.654         | 0.158        | 0.511 | 0.564         | 0.164           | 0.463           | 0.320          | 0.127         | 0.664         | 0.361        | 0.767    | 0.367    | 0.666 | 0.574 | 0.174 | 0.473 |
| 0.505         | 0.350        | 0.384 | 0.448         | 0.277           | 0.550           | 0.324          | 0.325         | 0.596         | 0.440        | 0.538    | 0.367    | 0.640 | 0.539 | 0.368 | 0.641 |
| 0.384         | 0.107        | 0.243 | 0.329         | 0.140           | 0.414           | 0.203          | 0.109         | 0.387         | 0.204        | 0.426    | 0.237    | 0.511 | 0.332 | 0.143 | 0.417 |
| 0.787         | 0.357        | 0.618 | 0.640         | 0.252           | 0.564           | 0.391          | 0.239         | 0.851         | 0.573        | 0.856    | 0.468    | 0.780 | 0.704 | 0.316 | 0.628 |
| 0.626         | 0.130        | 0.483 | 0.536         | 0.136           | 0.435           | 0.292          | 0.099         | 0.636         | 0.333        | 0.739    | 0.339    | 0.638 | 0.546 | 0.146 | 0.445 |
| 0.453         | 0.298        | 0.332 | 0.396         | 0.225           | 0.498           | 0.272          | 0.273         | 0.544         | 0.388        | 0.486    | 0.315    | 0.588 | 0.487 | 0.316 | 0.589 |
| 0.361         | 0.084        | 0.220 | 0.306         | 0.117           | 0.391           | 0.180          | 0.086         | 0.364         | 0.181        | 0.403    | 0.214    | 0.488 | 0.309 | 0.120 | 0.394 |
| 0.753         | 0.323        | 0.584 | 0.606         | 0.218           | 0.530           | 0.357          | 0.205         | 0.817         | 0.539        | 0.822    | 0.434    | 0.746 | 0.670 | 0.282 | 0.594 |
| 0.600         | 0.104        | 0.457 | 0.510         | 0.110           | 0.409           | 0.266          | 0.073         | 0.610         | 0.307        | 0.713    | 0.313    | 0.612 | 0.520 | 0.120 | 0.419 |
| 0.402         | 0.247        | 0.281 | 0.345         | 0.174           | 0.447           | 0.221          | 0.222         | 0.493         | 0.337        | 0.435    | 0.264    | 0.537 | 0.436 | 0.265 | 0.538 |
| 0.344         | 0.067        | 0.203 | 0.289         | 0.100           | 0.374           | 0.163          | 0.069         | 0.347         | 0.164        | 0.386    | 0.197    | 0.471 | 0.292 | 0.103 | 0.377 |
| 0.723         | 0.293        | 0.554 | 0.576         | 0.188           | 0.500           | 0.327          | 0.175         | 0.787         | 0.509        | 0.792    | 0.404    | 0.716 | 0.640 | 0.252 | 0.564 |
| 0.590         | 0.094        | 0.447 | 0.500         | 0.100           | 0.399           | 0.256          | 0.063         | 0.600         | 0.297        | 0.703    | 0.303    | 0.602 | 0.510 | 0.110 | 0.409 |
| 0.370         | 0.215        | 0.249 | 0.313         | 0.142           | 0.415           | 0.189          | 0.190         | 0.461         | 0.305        | 0.403    | 0.232    | 0.505 | 0.404 | 0.233 | 0.506 |
| 0.329         | 0.052        | 0.188 | 0.274         | 0.085           | 0.359           | 0.148          | 0.054         | 0.332         | 0.149        | 0.371    | 0.182    | 0.456 | 0.277 | 0.088 | 0.362 |
| 0.788         | 0.358        | 0.619 | 0.641         | 0.253           | 0.565           | 0.392          | 0.240         | 0.852         | 0.574        | 0.857    | 0.469    | 0.781 | 0.705 | 0.317 | 0.629 |
| 0.620         | 0.124        | 0.477 | 0.530         | 0.130           | 0.429           | 0.286          | 0.093         | 0.630         | 0.327        | 0.733    | 0.333    | 0.632 | 0.540 | 0.140 | 0.439 |
| 0.446         | 0.291        | 0.325 | 0.389         | 0.218           | 0.491           | 0.265          | 0.266         | 0.537         | 0.381        | 0.479    | 0.308    | 0.581 | 0.480 | 0.309 | 0.582 |
| 0.363         | 0.086        | 0.222 | 0.308         | 0.119           | 0.393           | 0.182          | 0.088         | 0.366         | 0.183        | 0.405    | 0.216    | 0.490 | 0.311 | 0.122 | 0.396 |
| 0.775         | 0.345        | 0.606 | 0.628         | 0.240           | 0.552           | 0.379          | 0.227         | 0.839         | 0.561        | 0.844    | 0.456    | 0.768 | 0.692 | 0.304 | 0.616 |
| 0.629         | 0.133        | 0.486 | 0.539         | 0.139           | 0.438           | 0.295          | 0.102         | 0.639         | 0.336        | 0.742    | 0.342    | 0.641 | 0.549 | 0.149 | 0.448 |
| 0.398         | 0.243        | 0.277 | 0.341         | 0.170           | 0.443           | 0.217          | 0.218         | 0.489         | 0.333        | 0.431    | 0.260    | 0.533 | 0.432 | 0.261 | 0.534 |
| 0.335         | 0.058        | 0.194 | 0.280         | 0.091           | 0.365           | 0.154          | 0.060         | 0.338         | 0.155        | 0.377    | 0.188    | 0.462 | 0.283 | 0.094 | 0.368 |



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## Body-worn:

| Test position |            |       | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |
|---------------|------------|-------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|
|               |            |       | Main Ant11    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |
|               |            |       | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |
| GSM850        | Front side | 0.129 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.169 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| WCDMA B5      | Front side | 0.220 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.328 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| CDMA BC0      | Front side | 0.176 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.256 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| LTE B12       | Front side | 0.082 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.134 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| LTE B13       | Front side | 0.072 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.100 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| LTE B26       | Front side | 0.179 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.254 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N26           | Front side | 0.198 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.269 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| Summed SAR    |            |       |               |                 |                 |                |               |               |              |          |          |       |       |       |       |
| 1+2           | 1+3        | 1+4   | 1+5           | 1+6             | 1+7             | 1+8            | 1+9           | 1+2+9         | 1+3+8        | 1+5+8    | 1+6+8    | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.178         | 0.148      | 0.175 | 0.274         | 0.200           | 0.318           | 0.141          | 0.140         | 0.189         | 0.160        | 0.286    | 0.212    | 0.330 | 0.285 | 0.211 | 0.329 |
| 0.239         | 0.197      | 0.244 | 0.421         | 0.291           | 0.468           | 0.190          | 0.183         | 0.253         | 0.218        | 0.442    | 0.312    | 0.489 | 0.435 | 0.305 | 0.482 |
| 0.269         | 0.239      | 0.266 | 0.365         | 0.291           | 0.409           | 0.232          | 0.231         | 0.280         | 0.251        | 0.377    | 0.303    | 0.421 | 0.376 | 0.302 | 0.420 |
| 0.398         | 0.356      | 0.403 | 0.580         | 0.450           | 0.627           | 0.349          | 0.342         | 0.412         | 0.377        | 0.601    | 0.471    | 0.648 | 0.594 | 0.464 | 0.641 |
| 0.225         | 0.195      | 0.222 | 0.321         | 0.247           | 0.365           | 0.188          | 0.187         | 0.236         | 0.207        | 0.333    | 0.259    | 0.377 | 0.332 | 0.258 | 0.376 |
| 0.326         | 0.284      | 0.331 | 0.508         | 0.378           | 0.555           | 0.277          | 0.270         | 0.340         | 0.305        | 0.529    | 0.399    | 0.576 | 0.522 | 0.392 | 0.569 |
| 0.131         | 0.101      | 0.128 | 0.227         | 0.153           | 0.271           | 0.094          | 0.093         | 0.142         | 0.113        | 0.239    | 0.165    | 0.283 | 0.238 | 0.164 | 0.282 |
| 0.204         | 0.162      | 0.209 | 0.386         | 0.256           | 0.433           | 0.155          | 0.148         | 0.218         | 0.183        | 0.407    | 0.277    | 0.454 | 0.400 | 0.270 | 0.447 |
| 0.121         | 0.091      | 0.118 | 0.217         | 0.143           | 0.261           | 0.084          | 0.083         | 0.132         | 0.103        | 0.229    | 0.155    | 0.273 | 0.228 | 0.154 | 0.272 |
| 0.170         | 0.128      | 0.175 | 0.352         | 0.222           | 0.399           | 0.121          | 0.114         | 0.184         | 0.149        | 0.373    | 0.243    | 0.420 | 0.366 | 0.236 | 0.413 |
| 0.228         | 0.198      | 0.225 | 0.324         | 0.250           | 0.368           | 0.191          | 0.190         | 0.239         | 0.210        | 0.336    | 0.262    | 0.380 | 0.335 | 0.261 | 0.379 |
| 0.324         | 0.282      | 0.329 | 0.506         | 0.376           | 0.553           | 0.275          | 0.268         | 0.338         | 0.303        | 0.527    | 0.397    | 0.574 | 0.520 | 0.390 | 0.567 |
| 0.247         | 0.217      | 0.244 | 0.343         | 0.269           | 0.387           | 0.210          | 0.209         | 0.258         | 0.229        | 0.355    | 0.281    | 0.399 | 0.354 | 0.280 | 0.398 |
| 0.339         | 0.297      | 0.344 | 0.521         | 0.391           | 0.568           | 0.290          | 0.283         | 0.353         | 0.318        | 0.542    | 0.412    | 0.589 | 0.535 | 0.405 | 0.582 |



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| Test position     |            |       | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |
|-------------------|------------|-------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|
|                   |            |       | Main Ant12    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |
|                   |            |       | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |
| N7                | Front side | 0.118 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                   | Back side  | 0.241 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N38               | Front side | 0.223 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                   | Back side  | 0.418 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N41               | Front side | 0.186 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                   | Back side  | 0.298 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| NSA N66           | Front side | 0.028 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                   | Back side  | 0.063 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| ENDC LTE B7       | Front side | 0.121 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                   | Back side  | 0.241 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| Inter-band LTE B4 | Front side | 0.025 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                   | Back side  | 0.054 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| Summed SAR        |            |       |               |                 |                 |                |               |               |              |          |          |       |       |       |       |
| 1+2               | 1+3        | 1+4   | 1+5           | 1+6             | 1+7             | 1+8            | 1+9           | 1+2+9         | 1+3+8        | 1+5+8    | 1+6+8    | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.167             | 0.137      | 0.164 | 0.263         | 0.189           | 0.307           | 0.130          | 0.129         | 0.178         | 0.149        | 0.275    | 0.201    | 0.319 | 0.274 | 0.200 | 0.318 |
| 0.311             | 0.269      | 0.316 | 0.493         | 0.363           | 0.540           | 0.262          | 0.255         | 0.325         | 0.290        | 0.514    | 0.384    | 0.561 | 0.507 | 0.377 | 0.554 |
| 0.272             | 0.242      | 0.269 | 0.368         | 0.294           | 0.412           | 0.235          | 0.234         | 0.283         | 0.254        | 0.380    | 0.306    | 0.424 | 0.379 | 0.305 | 0.423 |
| 0.488             | 0.446      | 0.493 | 0.670         | 0.540           | 0.717           | 0.439          | 0.432         | 0.502         | 0.467        | 0.691    | 0.561    | 0.738 | 0.684 | 0.554 | 0.731 |
| 0.235             | 0.205      | 0.232 | 0.331         | 0.257           | 0.375           | 0.198          | 0.197         | 0.246         | 0.217        | 0.343    | 0.269    | 0.387 | 0.342 | 0.268 | 0.386 |
| 0.368             | 0.326      | 0.373 | 0.550         | 0.420           | 0.597           | 0.319          | 0.312         | 0.382         | 0.347        | 0.571    | 0.441    | 0.618 | 0.564 | 0.434 | 0.611 |
| 0.077             | 0.047      | 0.074 | 0.173         | 0.099           | 0.217           | 0.040          | 0.039         | 0.088         | 0.059        | 0.185    | 0.111    | 0.229 | 0.184 | 0.110 | 0.228 |
| 0.133             | 0.091      | 0.138 | 0.315         | 0.185           | 0.362           | 0.084          | 0.077         | 0.147         | 0.112        | 0.336    | 0.206    | 0.383 | 0.329 | 0.199 | 0.376 |
| 0.170             | 0.140      | 0.167 | 0.266         | 0.192           | 0.310           | 0.133          | 0.132         | 0.181         | 0.152        | 0.278    | 0.204    | 0.322 | 0.277 | 0.203 | 0.321 |
| 0.311             | 0.269      | 0.316 | 0.493         | 0.363           | 0.540           | 0.262          | 0.255         | 0.325         | 0.290        | 0.514    | 0.384    | 0.561 | 0.507 | 0.377 | 0.554 |
| 0.074             | 0.044      | 0.071 | 0.170         | 0.096           | 0.214           | 0.037          | 0.036         | 0.085         | 0.056        | 0.182    | 0.108    | 0.226 | 0.181 | 0.107 | 0.225 |
| 0.124             | 0.082      | 0.129 | 0.306         | 0.176           | 0.353           | 0.075          | 0.068         | 0.138         | 0.103        | 0.327    | 0.197    | 0.374 | 0.320 | 0.190 | 0.367 |



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| Test position      |            |       | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |
|--------------------|------------|-------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|
|                    |            |       | Main Ant13    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |
|                    |            |       | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |
| N77<br>(3450-3550) | Front side | 0.202 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                    | Back side  | 0.523 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N77<br>(3700-3980) | Front side | 0.123 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                    | Back side  | 0.465 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N78<br>(3450-3550) | Front side | 0.326 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                    | Back side  | 0.886 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N78<br>(3700-3800) | Front side | 0.140 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                    | Back side  | 0.706 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| Summed SAR         |            |       |               |                 |                 |                |               |               |              |          |          |       |       |       |       |
| 1+2                | 1+3        | 1+4   | 1+5           | 1+6             | 1+7             | 1+8            | 1+9           | 1+2+9         | 1+3+8        | 1+5+8    | 1+6+8    | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.251              | 0.221      | 0.248 | 0.347         | 0.273           | 0.391           | 0.214          | 0.213         | 0.262         | 0.233        | 0.359    | 0.285    | 0.403 | 0.358 | 0.284 | 0.402 |
| 0.593              | 0.551      | 0.598 | 0.775         | 0.645           | 0.822           | 0.544          | 0.537         | 0.607         | 0.572        | 0.796    | 0.666    | 0.843 | 0.789 | 0.659 | 0.836 |
| 0.172              | 0.142      | 0.169 | 0.268         | 0.194           | 0.312           | 0.135          | 0.134         | 0.183         | 0.154        | 0.280    | 0.206    | 0.324 | 0.279 | 0.205 | 0.323 |
| 0.535              | 0.493      | 0.540 | 0.717         | 0.587           | 0.764           | 0.486          | 0.479         | 0.549         | 0.514        | 0.738    | 0.608    | 0.785 | 0.731 | 0.601 | 0.778 |
| 0.375              | 0.345      | 0.372 | 0.471         | 0.397           | 0.515           | 0.338          | 0.337         | 0.386         | 0.357        | 0.483    | 0.409    | 0.527 | 0.482 | 0.408 | 0.526 |
| 0.956              | 0.914      | 0.961 | 1.138         | 1.008           | 1.185           | 0.907          | 0.900         | 0.970         | 0.935        | 1.159    | 1.029    | 1.206 | 1.152 | 1.022 | 1.199 |
| 0.189              | 0.159      | 0.186 | 0.285         | 0.211           | 0.329           | 0.152          | 0.151         | 0.200         | 0.171        | 0.297    | 0.223    | 0.341 | 0.296 | 0.222 | 0.340 |
| 0.776              | 0.734      | 0.781 | 0.958         | 0.828           | 1.005           | 0.727          | 0.720         | 0.790         | 0.755        | 0.979    | 0.849    | 1.026 | 0.972 | 0.842 | 1.019 |

| Test position      |            | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |       |
|--------------------|------------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|-------|
|                    |            | Main Ant14    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |       |
|                    |            | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |       |
| N77<br>(3450-3550) | Front side | 0.032         | 0.049           | 0.019           | 0.046          | 0.145         | 0.071         | 0.189        | 0.012    | 0.011    |       |       |       |       |       |
|                    | Back side  | 0.043         | 0.070           | 0.028           | 0.075          | 0.252         | 0.122         | 0.299        | 0.021    | 0.014    |       |       |       |       |       |
| N77<br>(3700-3980) | Front side | 0.022         | 0.049           | 0.019           | 0.046          | 0.145         | 0.071         | 0.189        | 0.012    | 0.011    |       |       |       |       |       |
|                    | Back side  | 0.011         | 0.070           | 0.028           | 0.075          | 0.252         | 0.122         | 0.299        | 0.021    | 0.014    |       |       |       |       |       |
| N78<br>(3450-3550) | Front side | 0.026         | 0.049           | 0.019           | 0.046          | 0.145         | 0.071         | 0.189        | 0.012    | 0.011    |       |       |       |       |       |
|                    | Back side  | 0.037         | 0.070           | 0.028           | 0.075          | 0.252         | 0.122         | 0.299        | 0.021    | 0.014    |       |       |       |       |       |
| N78<br>(3700-3800) | Front side | 0.013         | 0.049           | 0.019           | 0.046          | 0.145         | 0.071         | 0.189        | 0.012    | 0.011    |       |       |       |       |       |
|                    | Back side  | 0.016         | 0.070           | 0.028           | 0.075          | 0.252         | 0.122         | 0.299        | 0.021    | 0.014    |       |       |       |       |       |
| Summed SAR         |            |               |                 |                 |                |               |               |              |          |          |       |       |       |       |       |
| 1+2                | 1+3        | 1+4           | 1+5             | 1+6             | 1+7            | 1+8           | 1+9           | 1+2+9        | 1+3+8    | 1+5+8    | 1+6+8 | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.081              | 0.051      | 0.078         | 0.177           | 0.103           | 0.221          | 0.044         | 0.043         | 0.092        | 0.063    | 0.189    | 0.115 | 0.233 | 0.188 | 0.114 | 0.232 |
| 0.113              | 0.071      | 0.118         | 0.295           | 0.165           | 0.342          | 0.064         | 0.057         | 0.127        | 0.092    | 0.316    | 0.186 | 0.363 | 0.309 | 0.179 | 0.356 |
| 0.071              | 0.041      | 0.068         | 0.167           | 0.093           | 0.211          | 0.034         | 0.033         | 0.082        | 0.053    | 0.179    | 0.105 | 0.223 | 0.178 | 0.104 | 0.222 |
| 0.081              | 0.039      | 0.086         | 0.263           | 0.133           | 0.310          | 0.032         | 0.025         | 0.095        | 0.060    | 0.284    | 0.154 | 0.331 | 0.277 | 0.147 | 0.324 |
| 0.075              | 0.045      | 0.072         | 0.171           | 0.097           | 0.215          | 0.038         | 0.037         | 0.086        | 0.057    | 0.183    | 0.109 | 0.227 | 0.182 | 0.108 | 0.226 |
| 0.107              | 0.065      | 0.112         | 0.289           | 0.159           | 0.336          | 0.058         | 0.051         | 0.121        | 0.086    | 0.310    | 0.180 | 0.357 | 0.303 | 0.173 | 0.350 |
| 0.062              | 0.032      | 0.059         | 0.158           | 0.084           | 0.202          | 0.025         | 0.024         | 0.073        | 0.044    | 0.170    | 0.096 | 0.214 | 0.169 | 0.095 | 0.213 |
| 0.086              | 0.044      | 0.091         | 0.268           | 0.138           | 0.315          | 0.037         | 0.030         | 0.100        | 0.065    | 0.289    | 0.159 | 0.336 | 0.282 | 0.152 | 0.329 |



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| Test position |            |       | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |
|---------------|------------|-------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|
|               |            |       | Main Ant15    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |
|               |            |       | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |
| GSM1900       | Front side | 0.130 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.181 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| WCDMA B2      | Front side | 0.172 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.230 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| WCDMA B4      | Front side | 0.220 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.311 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| LTE B2        | Front side | 0.207 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.244 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| LTE B4        | Front side | 0.246 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.369 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| LTE B7        | Front side | 0.246 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.253 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| LTE B41       | Front side | 0.209 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.177 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| LTE B66       | Front side | 0.273 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.404 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N2            | Front side | 0.159 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.218 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N7            | Front side | 0.224 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.231 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N66           | Front side | 0.181 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.373 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| Summed SAR    |            |       |               |                 |                 |                |               |               |              |          |          |       |       |       |       |
| 1+2           | 1+3        | 1+4   | 1+5           | 1+6             | 1+7             | 1+8            | 1+9           | 1+2+9         | 1+3+8        | 1+5+8    | 1+6+8    | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.179         | 0.149      | 0.176 | 0.275         | 0.201           | 0.319           | 0.142          | 0.141         | 0.190         | 0.161        | 0.287    | 0.213    | 0.331 | 0.286 | 0.212 | 0.330 |
| 0.251         | 0.209      | 0.256 | 0.433         | 0.303           | 0.480           | 0.202          | 0.195         | 0.265         | 0.230        | 0.454    | 0.324    | 0.501 | 0.447 | 0.317 | 0.494 |
| 0.221         | 0.191      | 0.218 | 0.317         | 0.243           | 0.361           | 0.184          | 0.183         | 0.232         | 0.203        | 0.329    | 0.255    | 0.373 | 0.328 | 0.254 | 0.372 |
| 0.300         | 0.258      | 0.305 | 0.482         | 0.352           | 0.529           | 0.251          | 0.244         | 0.314         | 0.279        | 0.503    | 0.373    | 0.550 | 0.496 | 0.366 | 0.543 |
| 0.269         | 0.239      | 0.266 | 0.365         | 0.291           | 0.409           | 0.232          | 0.231         | 0.280         | 0.251        | 0.377    | 0.303    | 0.421 | 0.376 | 0.302 | 0.420 |
| 0.381         | 0.339      | 0.386 | 0.563         | 0.433           | 0.610           | 0.332          | 0.325         | 0.395         | 0.360        | 0.584    | 0.454    | 0.631 | 0.577 | 0.447 | 0.624 |
| 0.256         | 0.226      | 0.253 | 0.352         | 0.278           | 0.396           | 0.219          | 0.218         | 0.267         | 0.238        | 0.364    | 0.290    | 0.408 | 0.363 | 0.289 | 0.407 |
| 0.314         | 0.272      | 0.319 | 0.496         | 0.366           | 0.543           | 0.265          | 0.258         | 0.328         | 0.293        | 0.517    | 0.387    | 0.564 | 0.510 | 0.380 | 0.557 |
| 0.295         | 0.265      | 0.292 | 0.391         | 0.317           | 0.435           | 0.258          | 0.257         | 0.306         | 0.277        | 0.403    | 0.329    | 0.447 | 0.402 | 0.328 | 0.446 |
| 0.439         | 0.397      | 0.444 | 0.621         | 0.491           | 0.668           | 0.390          | 0.383         | 0.453         | 0.418        | 0.642    | 0.512    | 0.689 | 0.635 | 0.505 | 0.682 |
| 0.295         | 0.265      | 0.292 | 0.391         | 0.317           | 0.435           | 0.258          | 0.257         | 0.306         | 0.277        | 0.403    | 0.329    | 0.447 | 0.402 | 0.328 | 0.446 |
| 0.323         | 0.281      | 0.328 | 0.505         | 0.375           | 0.552           | 0.274          | 0.267         | 0.337         | 0.302        | 0.526    | 0.396    | 0.573 | 0.519 | 0.389 | 0.566 |
| 0.258         | 0.228      | 0.255 | 0.354         | 0.280           | 0.398           | 0.221          | 0.220         | 0.269         | 0.240        | 0.366    | 0.292    | 0.410 | 0.365 | 0.291 | 0.409 |
| 0.247         | 0.205      | 0.252 | 0.429         | 0.299           | 0.476           | 0.198          | 0.191         | 0.261         | 0.226        | 0.450    | 0.320    | 0.497 | 0.443 | 0.313 | 0.490 |
| 0.322         | 0.292      | 0.319 | 0.418         | 0.344           | 0.462           | 0.285          | 0.284         | 0.333         | 0.304        | 0.430    | 0.356    | 0.474 | 0.429 | 0.355 | 0.473 |
| 0.474         | 0.432      | 0.479 | 0.656         | 0.526           | 0.703           | 0.425          | 0.418         | 0.488         | 0.453        | 0.677    | 0.547    | 0.724 | 0.670 | 0.540 | 0.717 |
| 0.208         | 0.178      | 0.205 | 0.304         | 0.230           | 0.348           | 0.171          | 0.170         | 0.219         | 0.190        | 0.316    | 0.242    | 0.360 | 0.315 | 0.241 | 0.359 |
| 0.288         | 0.246      | 0.293 | 0.470         | 0.340           | 0.517           | 0.239          | 0.232         | 0.302         | 0.267        | 0.491    | 0.361    | 0.538 | 0.484 | 0.354 | 0.531 |
| 0.273         | 0.243      | 0.270 | 0.369         | 0.295           | 0.413           | 0.236          | 0.235         | 0.284         | 0.255        | 0.381    | 0.307    | 0.425 | 0.380 | 0.306 | 0.424 |
| 0.301         | 0.259      | 0.306 | 0.483         | 0.353           | 0.530           | 0.252          | 0.245         | 0.315         | 0.280        | 0.504    | 0.374    | 0.551 | 0.497 | 0.367 | 0.544 |
| 0.230         | 0.200      | 0.227 | 0.326         | 0.252           | 0.370           | 0.193          | 0.192         | 0.241         | 0.212        | 0.338    | 0.264    | 0.382 | 0.337 | 0.263 | 0.381 |
| 0.443         | 0.401      | 0.448 | 0.625         | 0.495           | 0.672           | 0.394          | 0.387         | 0.457         | 0.422        | 0.646    | 0.516    | 0.693 | 0.639 | 0.509 | 0.686 |



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# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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| Test position      |            |       | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |
|--------------------|------------|-------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|
|                    |            |       | Main Ant21    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |
|                    |            |       | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |
| N77<br>(3450-3550) | Front side | 0.005 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                    | Back side  | 0.006 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N77<br>(3700-3980) | Front side | 0.008 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                    | Back side  | 0.006 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N78<br>(3450-3550) | Front side | 0.006 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                    | Back side  | 0.006 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N78<br>(3700-3800) | Front side | 0.012 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                    | Back side  | 0.009 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| Summed SAR         |            |       |               |                 |                 |                |               |               |              |          |          |       |       |       |       |
| 1+2                | 1+3        | 1+4   | 1+5           | 1+6             | 1+7             | 1+8            | 1+9           | 1+2+9         | 1+3+8        | 1+5+8    | 1+6+8    | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.054              | 0.024      | 0.051 | 0.150         | 0.076           | 0.194           | 0.017          | 0.016         | 0.065         | 0.036        | 0.162    | 0.088    | 0.206 | 0.161 | 0.087 | 0.205 |
| 0.076              | 0.034      | 0.081 | 0.258         | 0.128           | 0.305           | 0.027          | 0.020         | 0.090         | 0.055        | 0.279    | 0.149    | 0.326 | 0.272 | 0.142 | 0.319 |
| 0.057              | 0.027      | 0.054 | 0.153         | 0.079           | 0.197           | 0.020          | 0.019         | 0.068         | 0.039        | 0.165    | 0.091    | 0.209 | 0.164 | 0.090 | 0.208 |
| 0.076              | 0.034      | 0.081 | 0.258         | 0.128           | 0.305           | 0.027          | 0.020         | 0.090         | 0.055        | 0.279    | 0.149    | 0.326 | 0.272 | 0.142 | 0.319 |
| 0.055              | 0.025      | 0.052 | 0.151         | 0.077           | 0.195           | 0.018          | 0.017         | 0.066         | 0.037        | 0.163    | 0.089    | 0.207 | 0.162 | 0.088 | 0.206 |
| 0.076              | 0.034      | 0.081 | 0.258         | 0.128           | 0.305           | 0.027          | 0.020         | 0.090         | 0.055        | 0.279    | 0.149    | 0.326 | 0.272 | 0.142 | 0.319 |
| 0.061              | 0.031      | 0.058 | 0.157         | 0.083           | 0.201           | 0.024          | 0.023         | 0.072         | 0.043        | 0.169    | 0.095    | 0.213 | 0.168 | 0.094 | 0.212 |
| 0.079              | 0.037      | 0.084 | 0.261         | 0.131           | 0.308           | 0.030          | 0.023         | 0.093         | 0.058        | 0.282    | 0.152    | 0.329 | 0.275 | 0.145 | 0.322 |

| Test position      |            |       | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |
|--------------------|------------|-------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|
|                    |            |       | Main Ant23    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |
|                    |            |       | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |
| N38                | Front side | 0.085 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                    | Back side  | 0.127 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N41                | Front side | 0.061 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                    | Back side  | 0.099 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N77<br>(3450-3550) | Front side | 0.034 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                    | Back side  | 0.088 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N77<br>(3700-3980) | Front side | 0.100 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                    | Back side  | 0.288 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N78<br>(3450-3550) | Front side | 0.053 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                    | Back side  | 0.148 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N78<br>(3700-3800) | Front side | 0.096 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|                    | Back side  | 0.200 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| Summed SAR         |            |       |               |                 |                 |                |               |               |              |          |          |       |       |       |       |
| 1+2                | 1+3        | 1+4   | 1+5           | 1+6             | 1+7             | 1+8            | 1+9           | 1+2+9         | 1+3+8        | 1+5+8    | 1+6+8    | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.134              | 0.104      | 0.131 | 0.230         | 0.156           | 0.274           | 0.097          | 0.096         | 0.145         | 0.116        | 0.242    | 0.168    | 0.286 | 0.241 | 0.167 | 0.285 |
| 0.197              | 0.155      | 0.202 | 0.379         | 0.249           | 0.426           | 0.148          | 0.141         | 0.211         | 0.176        | 0.400    | 0.270    | 0.447 | 0.393 | 0.263 | 0.440 |
| 0.110              | 0.080      | 0.107 | 0.206         | 0.132           | 0.250           | 0.073          | 0.072         | 0.121         | 0.092        | 0.218    | 0.144    | 0.262 | 0.217 | 0.143 | 0.261 |
| 0.169              | 0.127      | 0.174 | 0.351         | 0.221           | 0.398           | 0.120          | 0.113         | 0.183         | 0.148        | 0.372    | 0.242    | 0.419 | 0.365 | 0.235 | 0.412 |
| 0.083              | 0.053      | 0.080 | 0.179         | 0.105           | 0.223           | 0.046          | 0.045         | 0.094         | 0.065        | 0.191    | 0.117    | 0.235 | 0.190 | 0.116 | 0.234 |
| 0.158              | 0.116      | 0.163 | 0.340         | 0.210           | 0.387           | 0.109          | 0.102         | 0.172         | 0.137        | 0.361    | 0.231    | 0.408 | 0.354 | 0.224 | 0.401 |
| 0.149              | 0.119      | 0.146 | 0.245         | 0.171           | 0.289           | 0.112          | 0.111         | 0.160         | 0.131        | 0.257    | 0.183    | 0.301 | 0.256 | 0.182 | 0.300 |
| 0.358              | 0.316      | 0.363 | 0.540         | 0.410           | 0.587           | 0.309          | 0.302         | 0.372         | 0.337        | 0.561    | 0.431    | 0.608 | 0.554 | 0.424 | 0.601 |
| 0.102              | 0.072      | 0.099 | 0.198         | 0.124           | 0.242           | 0.065          | 0.064         | 0.113         | 0.084        | 0.210    | 0.136    | 0.254 | 0.209 | 0.135 | 0.253 |
| 0.218              | 0.176      | 0.223 | 0.400         | 0.270           | 0.447           | 0.169          | 0.162         | 0.232         | 0.197        | 0.421    | 0.291    | 0.468 | 0.414 | 0.284 | 0.461 |
| 0.145              | 0.115      | 0.142 | 0.241         | 0.167           | 0.285           | 0.108          | 0.107         | 0.156         | 0.127        | 0.253    | 0.179    | 0.297 | 0.252 | 0.178 | 0.296 |
| 0.270              | 0.228      | 0.275 | 0.452         | 0.322           | 0.499           | 0.221          | 0.214         | 0.284         | 0.249        | 0.473    | 0.343    | 0.520 | 0.466 | 0.336 | 0.513 |



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| Test position |            | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |       |
|---------------|------------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|-------|
|               |            | Main Ant31    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |       |
|               |            | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |       |
| GSM1900       | Front side | 0.263         | 0.049           | 0.019           | 0.046          | 0.145         | 0.071         | 0.189        | 0.012    | 0.011    |       |       |       |       |       |
|               | Back side  | 0.327         | 0.070           | 0.028           | 0.075          | 0.252         | 0.122         | 0.299        | 0.021    | 0.014    |       |       |       |       |       |
| WCDMA B2      | Front side | 0.204         | 0.049           | 0.019           | 0.046          | 0.145         | 0.071         | 0.189        | 0.012    | 0.011    |       |       |       |       |       |
|               | Back side  | 0.268         | 0.070           | 0.028           | 0.075          | 0.252         | 0.122         | 0.299        | 0.021    | 0.014    |       |       |       |       |       |
| WCDMA B4      | Front side | 0.357         | 0.049           | 0.019           | 0.046          | 0.145         | 0.071         | 0.189        | 0.012    | 0.011    |       |       |       |       |       |
|               | Back side  | 0.423         | 0.070           | 0.028           | 0.075          | 0.252         | 0.122         | 0.299        | 0.021    | 0.014    |       |       |       |       |       |
| LTE B2        | Front side | 0.243         | 0.049           | 0.019           | 0.046          | 0.145         | 0.071         | 0.189        | 0.012    | 0.011    |       |       |       |       |       |
|               | Back side  | 0.261         | 0.070           | 0.028           | 0.075          | 0.252         | 0.122         | 0.299        | 0.021    | 0.014    |       |       |       |       |       |
| LTE B4        | Front side | 0.367         | 0.049           | 0.019           | 0.046          | 0.145         | 0.071         | 0.189        | 0.012    | 0.011    |       |       |       |       |       |
|               | Back side  | 0.458         | 0.070           | 0.028           | 0.075          | 0.252         | 0.122         | 0.299        | 0.021    | 0.014    |       |       |       |       |       |
| LTE B7        | Front side | 0.082         | 0.049           | 0.019           | 0.046          | 0.145         | 0.071         | 0.189        | 0.012    | 0.011    |       |       |       |       |       |
|               | Back side  | 0.138         | 0.070           | 0.028           | 0.075          | 0.252         | 0.122         | 0.299        | 0.021    | 0.014    |       |       |       |       |       |
| LTE B41       | Front side | 0.082         | 0.049           | 0.019           | 0.046          | 0.145         | 0.071         | 0.189        | 0.012    | 0.011    |       |       |       |       |       |
|               | Back side  | 0.188         | 0.070           | 0.028           | 0.075          | 0.252         | 0.122         | 0.299        | 0.021    | 0.014    |       |       |       |       |       |
| LTE B66       | Front side | 0.258         | 0.049           | 0.019           | 0.046          | 0.145         | 0.071         | 0.189        | 0.012    | 0.011    |       |       |       |       |       |
|               | Back side  | 0.337         | 0.070           | 0.028           | 0.075          | 0.252         | 0.122         | 0.299        | 0.021    | 0.014    |       |       |       |       |       |
| N2            | Front side | 0.202         | 0.049           | 0.019           | 0.046          | 0.145         | 0.071         | 0.189        | 0.012    | 0.011    |       |       |       |       |       |
|               | Back side  | 0.259         | 0.070           | 0.028           | 0.075          | 0.252         | 0.122         | 0.299        | 0.021    | 0.014    |       |       |       |       |       |
| N66           | Front side | 0.339         | 0.049           | 0.019           | 0.046          | 0.145         | 0.071         | 0.189        | 0.012    | 0.011    |       |       |       |       |       |
|               | Back side  | 0.449         | 0.070           | 0.028           | 0.075          | 0.252         | 0.122         | 0.299        | 0.021    | 0.014    |       |       |       |       |       |
| Summed SAR    |            |               |                 |                 |                |               |               |              |          |          |       |       |       |       |       |
| 1+2           | 1+3        | 1+4           | 1+5             | 1+6             | 1+7            | 1+8           | 1+9           | 1+2+9        | 1+3+8    | 1+5+8    | 1+6+8 | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.312         | 0.282      | 0.309         | 0.408           | 0.334           | 0.452          | 0.275         | 0.274         | 0.323        | 0.294    | 0.420    | 0.346 | 0.464 | 0.419 | 0.345 | 0.463 |
| 0.397         | 0.355      | 0.402         | 0.579           | 0.449           | 0.626          | 0.348         | 0.341         | 0.411        | 0.376    | 0.600    | 0.470 | 0.647 | 0.593 | 0.463 | 0.640 |
| 0.253         | 0.223      | 0.250         | 0.349           | 0.275           | 0.393          | 0.216         | 0.215         | 0.264        | 0.235    | 0.361    | 0.287 | 0.405 | 0.360 | 0.286 | 0.404 |
| 0.338         | 0.296      | 0.343         | 0.520           | 0.390           | 0.567          | 0.289         | 0.282         | 0.352        | 0.317    | 0.541    | 0.411 | 0.588 | 0.534 | 0.404 | 0.581 |
| 0.406         | 0.376      | 0.403         | 0.502           | 0.428           | 0.546          | 0.369         | 0.368         | 0.417        | 0.388    | 0.514    | 0.440 | 0.558 | 0.513 | 0.439 | 0.557 |
| 0.493         | 0.451      | 0.498         | 0.675           | 0.545           | 0.722          | 0.444         | 0.437         | 0.507        | 0.472    | 0.696    | 0.566 | 0.743 | 0.689 | 0.559 | 0.736 |
| 0.292         | 0.262      | 0.289         | 0.388           | 0.314           | 0.432          | 0.255         | 0.254         | 0.303        | 0.274    | 0.400    | 0.326 | 0.444 | 0.399 | 0.325 | 0.443 |
| 0.331         | 0.289      | 0.336         | 0.513           | 0.383           | 0.560          | 0.282         | 0.275         | 0.345        | 0.310    | 0.534    | 0.404 | 0.581 | 0.527 | 0.397 | 0.574 |
| 0.416         | 0.386      | 0.413         | 0.512           | 0.438           | 0.556          | 0.379         | 0.378         | 0.427        | 0.398    | 0.524    | 0.450 | 0.568 | 0.523 | 0.449 | 0.567 |
| 0.528         | 0.486      | 0.533         | 0.710           | 0.580           | 0.757          | 0.479         | 0.472         | 0.542        | 0.507    | 0.731    | 0.601 | 0.778 | 0.724 | 0.594 | 0.771 |
| 0.131         | 0.101      | 0.128         | 0.227           | 0.153           | 0.271          | 0.094         | 0.093         | 0.142        | 0.113    | 0.239    | 0.165 | 0.283 | 0.238 | 0.164 | 0.282 |
| 0.208         | 0.166      | 0.213         | 0.390           | 0.260           | 0.437          | 0.159         | 0.152         | 0.222        | 0.187    | 0.411    | 0.281 | 0.458 | 0.404 | 0.274 | 0.451 |
| 0.131         | 0.101      | 0.128         | 0.227           | 0.153           | 0.271          | 0.094         | 0.093         | 0.142        | 0.113    | 0.239    | 0.165 | 0.283 | 0.238 | 0.164 | 0.282 |
| 0.258         | 0.216      | 0.263         | 0.440           | 0.310           | 0.487          | 0.209         | 0.202         | 0.272        | 0.237    | 0.461    | 0.331 | 0.508 | 0.454 | 0.324 | 0.501 |
| 0.307         | 0.277      | 0.304         | 0.403           | 0.329           | 0.447          | 0.270         | 0.269         | 0.318        | 0.289    | 0.415    | 0.341 | 0.459 | 0.414 | 0.340 | 0.458 |
| 0.407         | 0.365      | 0.412         | 0.589           | 0.459           | 0.636          | 0.358         | 0.351         | 0.421        | 0.386    | 0.610    | 0.480 | 0.657 | 0.603 | 0.473 | 0.650 |
| 0.251         | 0.221      | 0.248         | 0.347           | 0.273           | 0.391          | 0.214         | 0.213         | 0.262        | 0.233    | 0.359    | 0.285 | 0.403 | 0.358 | 0.284 | 0.402 |
| 0.329         | 0.287      | 0.334         | 0.511           | 0.381           | 0.558          | 0.280         | 0.273         | 0.343        | 0.308    | 0.532    | 0.402 | 0.579 | 0.525 | 0.395 | 0.572 |
| 0.388         | 0.358      | 0.385         | 0.484           | 0.410           | 0.528          | 0.351         | 0.350         | 0.399        | 0.370    | 0.496    | 0.422 | 0.540 | 0.495 | 0.421 | 0.539 |
| 0.519         | 0.477      | 0.524         | 0.701           | 0.571           | 0.748          | 0.470         | 0.463         | 0.533        | 0.498    | 0.722    | 0.592 | 0.769 | 0.715 | 0.585 | 0.762 |



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| Test position |            |       | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |
|---------------|------------|-------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|
|               |            |       | Main Ant41    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |
|               |            |       | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |
| GSM850        | Front side | 0.185 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.220 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| WCDMA B5      | Front side | 0.207 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.302 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| CDMA BC0      | Front side | 0.168 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.236 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| LTE B12       | Front side | 0.179 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.165 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| LTE B13       | Front side | 0.133 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.147 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| LTE B26       | Front side | 0.175 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.237 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| N26           | Front side | 0.197 | 0.049         | 0.019           | 0.046           | 0.145          | 0.071         | 0.189         | 0.012        | 0.011    |          |       |       |       |       |
|               | Back side  | 0.275 | 0.070         | 0.028           | 0.075           | 0.252          | 0.122         | 0.299         | 0.021        | 0.014    |          |       |       |       |       |
| Summed SAR    |            |       |               |                 |                 |                |               |               |              |          |          |       |       |       |       |
| 1+2           | 1+3        | 1+4   | 1+5           | 1+6             | 1+7             | 1+8            | 1+9           | 1+2+9         | 1+3+8        | 1+5+8    | 1+6+8    | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.234         | 0.204      | 0.231 | 0.330         | 0.256           | 0.374           | 0.197          | 0.196         | 0.245         | 0.216        | 0.342    | 0.268    | 0.386 | 0.341 | 0.267 | 0.385 |
| 0.290         | 0.248      | 0.295 | 0.472         | 0.342           | 0.519           | 0.241          | 0.234         | 0.304         | 0.269        | 0.493    | 0.363    | 0.540 | 0.486 | 0.356 | 0.533 |
| 0.256         | 0.226      | 0.253 | 0.352         | 0.278           | 0.396           | 0.219          | 0.218         | 0.267         | 0.238        | 0.364    | 0.290    | 0.408 | 0.363 | 0.289 | 0.407 |
| 0.372         | 0.330      | 0.377 | 0.554         | 0.424           | 0.601           | 0.323          | 0.316         | 0.386         | 0.351        | 0.575    | 0.445    | 0.622 | 0.568 | 0.438 | 0.615 |
| 0.217         | 0.187      | 0.214 | 0.313         | 0.239           | 0.357           | 0.180          | 0.179         | 0.228         | 0.199        | 0.325    | 0.251    | 0.369 | 0.324 | 0.250 | 0.368 |
| 0.306         | 0.264      | 0.311 | 0.488         | 0.358           | 0.535           | 0.257          | 0.250         | 0.320         | 0.285        | 0.509    | 0.379    | 0.556 | 0.502 | 0.372 | 0.549 |
| 0.228         | 0.198      | 0.225 | 0.324         | 0.250           | 0.368           | 0.191          | 0.190         | 0.239         | 0.210        | 0.336    | 0.262    | 0.380 | 0.335 | 0.261 | 0.379 |
| 0.235         | 0.193      | 0.240 | 0.417         | 0.287           | 0.464           | 0.186          | 0.179         | 0.249         | 0.214        | 0.438    | 0.308    | 0.485 | 0.431 | 0.301 | 0.478 |
| 0.182         | 0.152      | 0.179 | 0.278         | 0.204           | 0.322           | 0.145          | 0.144         | 0.193         | 0.164        | 0.290    | 0.216    | 0.334 | 0.289 | 0.215 | 0.333 |
| 0.217         | 0.175      | 0.222 | 0.399         | 0.269           | 0.446           | 0.168          | 0.161         | 0.231         | 0.196        | 0.420    | 0.290    | 0.467 | 0.413 | 0.283 | 0.460 |
| 0.224         | 0.194      | 0.221 | 0.320         | 0.246           | 0.364           | 0.187          | 0.186         | 0.235         | 0.206        | 0.332    | 0.258    | 0.376 | 0.331 | 0.257 | 0.375 |
| 0.307         | 0.265      | 0.312 | 0.489         | 0.359           | 0.536           | 0.258          | 0.251         | 0.321         | 0.286        | 0.510    | 0.380    | 0.557 | 0.503 | 0.373 | 0.550 |
| 0.246         | 0.216      | 0.243 | 0.342         | 0.268           | 0.386           | 0.209          | 0.208         | 0.257         | 0.228        | 0.354    | 0.280    | 0.398 | 0.353 | 0.279 | 0.397 |
| 0.345         | 0.303      | 0.350 | 0.527         | 0.397           | 0.574           | 0.296          | 0.289         | 0.359         | 0.324        | 0.548    | 0.418    | 0.595 | 0.541 | 0.411 | 0.588 |



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### Hotspot:

| Test position |             |       |       | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |
|---------------|-------------|-------|-------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|
|               |             |       |       | Main Ant11    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |
|               |             |       |       | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |
| GSM850        | Front side  | 0.212 | 0.104 | 0.039         | 0.099           | 0.256           | 0.111          | 0.315         | 0.027         | 0.023        |          |          |       |       |       |
|               | Back side   | 0.315 | 0.151 | 0.052         | 0.150           | 0.459           | 0.185          | 0.588         | 0.042         | 0.036        |          |          |       |       |       |
|               | Left side   | 0.458 | /     | /             | /               | /               | /              | /             | /             | /            |          |          |       |       |       |
|               | Right side  | /     | 0.063 | 0.050         | 0.089           | 0.135           | 0.301          | 0.352         | 0.022         | 0.031        |          |          |       |       |       |
|               | Top side    | /     | 0.089 | /             | 0.070           | 0.654           | /              | 0.747         | 0.030         | /            |          |          |       |       |       |
|               | Bottom side | /     | /     | /             | /               | /               | /              | /             | /             | /            |          |          |       |       |       |
| WCDMA B5      | Front side  | 0.335 | 0.104 | 0.039         | 0.099           | 0.256           | 0.111          | 0.315         | 0.027         | 0.023        |          |          |       |       |       |
|               | Back side   | 0.524 | 0.151 | 0.052         | 0.150           | 0.459           | 0.185          | 0.588         | 0.042         | 0.036        |          |          |       |       |       |
|               | Left side   | 0.765 | /     | /             | /               | /               | /              | /             | /             | /            |          |          |       |       |       |
|               | Right side  | /     | 0.063 | 0.050         | 0.089           | 0.135           | 0.301          | 0.352         | 0.022         | 0.031        |          |          |       |       |       |
|               | Top side    | /     | 0.089 | /             | 0.070           | 0.654           | /              | 0.747         | 0.030         | /            |          |          |       |       |       |
|               | Bottom side | /     | /     | /             | /               | /               | /              | /             | /             | /            |          |          |       |       |       |
| CDMA BC0      | Front side  | 0.265 | 0.104 | 0.039         | 0.099           | 0.256           | 0.111          | 0.315         | 0.027         | 0.023        |          |          |       |       |       |
|               | Back side   | 0.406 | 0.151 | 0.052         | 0.150           | 0.459           | 0.185          | 0.588         | 0.042         | 0.036        |          |          |       |       |       |
|               | Left side   | 0.649 | /     | /             | /               | /               | /              | /             | /             | /            |          |          |       |       |       |
|               | Right side  | /     | 0.063 | 0.050         | 0.089           | 0.135           | 0.301          | 0.352         | 0.022         | 0.031        |          |          |       |       |       |
|               | Top side    | /     | 0.089 | /             | 0.070           | 0.654           | /              | 0.747         | 0.030         | /            |          |          |       |       |       |
|               | Bottom side | /     | /     | /             | /               | /               | /              | /             | /             | /            |          |          |       |       |       |
| LTE B12       | Front side  | 0.129 | 0.104 | 0.039         | 0.099           | 0.256           | 0.111          | 0.315         | 0.027         | 0.023        |          |          |       |       |       |
|               | Back side   | 0.234 | 0.151 | 0.052         | 0.150           | 0.459           | 0.185          | 0.588         | 0.042         | 0.036        |          |          |       |       |       |
|               | Left side   | 0.370 | /     | /             | /               | /               | /              | /             | /             | /            |          |          |       |       |       |
|               | Right side  | /     | 0.063 | 0.050         | 0.089           | 0.135           | 0.301          | 0.352         | 0.022         | 0.031        |          |          |       |       |       |
|               | Top side    | /     | 0.089 | /             | 0.070           | 0.654           | /              | 0.747         | 0.030         | /            |          |          |       |       |       |
|               | Bottom side | /     | /     | /             | /               | /               | /              | /             | /             | /            |          |          |       |       |       |
| LTE B13       | Front side  | 0.097 | 0.104 | 0.039         | 0.099           | 0.256           | 0.111          | 0.315         | 0.027         | 0.023        |          |          |       |       |       |
|               | Back side   | 0.177 | 0.151 | 0.052         | 0.150           | 0.459           | 0.185          | 0.588         | 0.042         | 0.036        |          |          |       |       |       |
|               | Left side   | 0.262 | /     | /             | /               | /               | /              | /             | /             | /            |          |          |       |       |       |
|               | Right side  | /     | 0.063 | 0.050         | 0.089           | 0.135           | 0.301          | 0.352         | 0.022         | 0.031        |          |          |       |       |       |
|               | Top side    | /     | 0.089 | /             | 0.070           | 0.654           | /              | 0.747         | 0.030         | /            |          |          |       |       |       |
|               | Bottom side | /     | /     | /             | /               | /               | /              | /             | /             | /            |          |          |       |       |       |
| LTE B26       | Front side  | 0.286 | 0.104 | 0.039         | 0.099           | 0.256           | 0.111          | 0.315         | 0.027         | 0.023        |          |          |       |       |       |
|               | Back side   | 0.452 | 0.151 | 0.052         | 0.150           | 0.459           | 0.185          | 0.588         | 0.042         | 0.036        |          |          |       |       |       |
|               | Left side   | 0.623 | /     | /             | /               | /               | /              | /             | /             | /            |          |          |       |       |       |
|               | Right side  | /     | 0.063 | 0.050         | 0.089           | 0.135           | 0.301          | 0.352         | 0.022         | 0.031        |          |          |       |       |       |
|               | Top side    | /     | 0.089 | /             | 0.070           | 0.654           | /              | 0.747         | 0.030         | /            |          |          |       |       |       |
|               | Bottom side | /     | /     | /             | /               | /               | /              | /             | /             | /            |          |          |       |       |       |
| N26           | Front side  | 0.292 | 0.104 | 0.039         | 0.099           | 0.256           | 0.111          | 0.315         | 0.027         | 0.023        |          |          |       |       |       |
|               | Back side   | 0.436 | 0.151 | 0.052         | 0.150           | 0.459           | 0.185          | 0.588         | 0.042         | 0.036        |          |          |       |       |       |
|               | Left side   | 0.635 | /     | /             | /               | /               | /              | /             | /             | /            |          |          |       |       |       |
|               | Right side  | /     | 0.063 | 0.050         | 0.089           | 0.135           | 0.301          | 0.352         | 0.022         | 0.031        |          |          |       |       |       |
|               | Top side    | /     | 0.089 | /             | 0.070           | 0.654           | /              | 0.747         | 0.030         | /            |          |          |       |       |       |
|               | Bottom side | /     | /     | /             | /               | /               | /              | /             | /             | /            |          |          |       |       |       |
| Summed SAR    |             |       |       |               |                 |                 |                |               |               |              |          |          |       |       |       |
| 1+2           | 1+3         | 1+4   | 1+5   | 1+6           | 1+7             | 1+8             | 1+9            | 1+2+9         | 1+3+8         | 1+5+8        | 1+6+8    | 1+7+8    | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.316         | 0.251       | 0.311 | 0.468 | 0.323         | 0.527           | 0.239           | 0.235          | 0.339         | 0.278         | 0.495        | 0.350    | 0.554    | 0.491 | 0.346 | 0.550 |
| 0.466         | 0.367       | 0.465 | 0.774 | 0.500         | 0.903           | 0.357           | 0.351          | 0.502         | 0.409         | 0.816        | 0.542    | 0.945    | 0.810 | 0.536 | 0.939 |
| 0.458         | 0.458       | 0.458 | 0.458 | 0.458         | 0.458           | 0.458           | 0.458          | 0.458         | 0.458         | 0.458        | 0.458    | 0.458    | 0.458 | 0.458 | 0.458 |
| 0.063         | 0.050       | 0.089 | 0.135 | 0.301         | 0.352           | 0.022           | 0.031          | 0.094         | 0.072         | 0.157        | 0.323    | 0.374    | 0.166 | 0.332 | 0.383 |
| 0.089         | /           | 0.070 | 0.654 | /             | 0.747           | 0.030           | /              | 0.089         | 0.030         | 0.684        | 0.030    | 0.777    | 0.654 | /     | 0.747 |
| /             | /           | /     | /     | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     |
| 0.439         | 0.374       | 0.434 | 0.591 | 0.446         | 0.650           | 0.362           | 0.358          | 0.462         | 0.401         | 0.618        | 0.473    | 0.677    | 0.614 | 0.469 | 0.673 |
| 0.675         | 0.576       | 0.674 | 0.983 | 0.709         | 1.112           | 0.566           | 0.560          | 0.711         | 0.618         | 1.025        | 0.751    | 1.154    | 1.019 | 0.745 | 1.148 |
| 0.765         | 0.765       | 0.765 | 0.765 | 0.765         | 0.765           | 0.765           | 0.765          | 0.765         | 0.765         | 0.765        | 0.765    | 0.765    | 0.765 | 0.765 | 0.765 |
| 0.063         | 0.050       | 0.089 | 0.135 | 0.301         | 0.352           | 0.022           | 0.031          | 0.094         | 0.072         | 0.157        | 0.323    | 0.374    | 0.166 | 0.332 | 0.383 |
| 0.089         | /           | 0.070 | 0.654 | /             | 0.747           | 0.030           | /              | 0.089         | 0.030         | 0.684        | 0.030    | 0.777    | 0.654 | /     | 0.747 |
| /             | /           | /     | /     | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     |
| 0.369         | 0.304       | 0.364 | 0.521 | 0.376         | 0.580           | 0.292           | 0.288          | 0.392         | 0.331         | 0.548        | 0.403    | 0.607    | 0.544 | 0.399 | 0.603 |
| 0.557         | 0.458       | 0.556 | 0.865 | 0.591         | 0.994           | 0.448           | 0.442          | 0.593         | 0.500         | 0.907        | 0.633    | 1.036    | 0.901 | 0.627 | 1.030 |
| 0.649         | 0.649       | 0.649 | 0.649 | 0.649         | 0.649           | 0.649           | 0.649          | 0.649         | 0.649         | 0.649        | 0.649    | 0.649    | 0.649 | 0.649 | 0.649 |
| 0.063         | 0.050       | 0.089 | 0.135 | 0.301         | 0.352           | 0.022           | 0.031          | 0.094         | 0.072         | 0.157        | 0.323    | 0.374    | 0.166 | 0.332 | 0.383 |



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|       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.233 | 0.168 | 0.228 | 0.385 | 0.240 | 0.444 | 0.156 | 0.152 | 0.256 | 0.195 | 0.412 | 0.267 | 0.471 | 0.408 | 0.263 | 0.467 |
| 0.385 | 0.286 | 0.384 | 0.693 | 0.419 | 0.822 | 0.276 | 0.270 | 0.421 | 0.328 | 0.735 | 0.461 | 0.864 | 0.729 | 0.455 | 0.858 |
| 0.370 | 0.370 | 0.370 | 0.370 | 0.370 | 0.370 | 0.370 | 0.370 | 0.370 | 0.370 | 0.370 | 0.370 | 0.370 | 0.370 | 0.370 | 0.370 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.201 | 0.136 | 0.196 | 0.353 | 0.208 | 0.412 | 0.124 | 0.120 | 0.224 | 0.163 | 0.380 | 0.235 | 0.439 | 0.376 | 0.231 | 0.435 |
| 0.328 | 0.229 | 0.327 | 0.636 | 0.362 | 0.765 | 0.219 | 0.213 | 0.364 | 0.271 | 0.678 | 0.404 | 0.807 | 0.672 | 0.398 | 0.801 |
| 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 | 0.262 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.390 | 0.325 | 0.385 | 0.542 | 0.397 | 0.601 | 0.313 | 0.309 | 0.413 | 0.352 | 0.569 | 0.424 | 0.628 | 0.565 | 0.420 | 0.624 |
| 0.603 | 0.504 | 0.602 | 0.911 | 0.637 | 1.040 | 0.494 | 0.488 | 0.639 | 0.546 | 0.953 | 0.679 | 1.082 | 0.947 | 0.673 | 1.076 |
| 0.623 | 0.623 | 0.623 | 0.623 | 0.623 | 0.623 | 0.623 | 0.623 | 0.623 | 0.623 | 0.623 | 0.623 | 0.623 | 0.623 | 0.623 | 0.623 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.396 | 0.331 | 0.391 | 0.548 | 0.403 | 0.607 | 0.319 | 0.315 | 0.419 | 0.358 | 0.575 | 0.430 | 0.634 | 0.571 | 0.426 | 0.630 |
| 0.587 | 0.488 | 0.586 | 0.895 | 0.621 | 1.024 | 0.478 | 0.472 | 0.623 | 0.530 | 0.937 | 0.663 | 1.066 | 0.931 | 0.657 | 1.060 |
| 0.635 | 0.635 | 0.635 | 0.635 | 0.635 | 0.635 | 0.635 | 0.635 | 0.635 | 0.635 | 0.635 | 0.635 | 0.635 | 0.635 | 0.635 | 0.635 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |



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| Test position     |             | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |
|-------------------|-------------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|
|                   |             | Main Ant12    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |
|                   |             | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |
| N7                | Front side  | 0.109         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|                   | Back side   | 0.219         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|                   | Left side   | 0.206         | /               | /               | /              | /             | /             | /            | /        | /        |
|                   | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|                   | Top side    | 0.038         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
| N38               | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |
|                   | Front side  | 0.154         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|                   | Back side   | 0.338         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|                   | Left side   | 0.320         | /               | /               | /              | /             | /             | /            | /        | /        |
|                   | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
| N41               | Top side    | 0.037         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|                   | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |
|                   | Front side  | 0.115         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|                   | Back side   | 0.249         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|                   | Left side   | 0.240         | /               | /               | /              | /             | /             | /            | /        | /        |
| NSA N66           | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|                   | Top side    | 0.027         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|                   | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |
|                   | Front side  | 0.057         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|                   | Back side   | 0.151         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
| ENDC LTE B7       | Left side   | 0.160         | /               | /               | /              | /             | /             | /            | /        | /        |
|                   | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|                   | Top side    | 0.024         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|                   | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |
|                   | Front side  | 0.167         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
| Inter-band LTE B4 | Back side   | 0.378         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|                   | Left side   | 0.349         | /               | /               | /              | /             | /             | /            | /        | /        |
|                   | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|                   | Top side    | 0.064         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|                   | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |
| Inter-band LTE B4 | Front side  | 0.052         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|                   | Back side   | 0.134         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|                   | Left side   | 0.144         | /               | /               | /              | /             | /             | /            | /        | /        |
|                   | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|                   | Top side    | 0.018         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|                   | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |
| Summed SAR        |             |               |                 |                 |                |               |               |              |          |          |
| 1+2               | 1+3         | 1+4           | 1+5             | 1+6             | 1+7            | 1+8           | 1+9           | 1+2+9        | 1+3+8    | 1+5+8    |
| 0.213             | 0.148       | 0.208         | 0.365           | 0.220           | 0.424          | 0.136         | 0.132         | 0.236        | 0.175    | 0.392    |
| 0.370             | 0.271       | 0.369         | 0.678           | 0.404           | 0.807          | 0.261         | 0.255         | 0.406        | 0.313    | 0.720    |
| 0.206             | 0.206       | 0.206         | 0.206           | 0.206           | 0.206          | 0.206         | 0.206         | 0.206        | 0.206    | 0.206    |
| 0.063             | 0.050       | 0.089         | 0.135           | 0.301           | 0.352          | 0.022         | 0.031         | 0.094        | 0.072    | 0.157    |
| 0.127             | 0.038       | 0.108         | 0.692           | 0.038           | 0.785          | 0.068         | 0.038         | 0.127        | 0.068    | 0.722    |
| /                 | /           | /             | /               | /               | /              | /             | /             | /            | /        | /        |
| 0.258             | 0.193       | 0.253         | 0.410           | 0.265           | 0.469          | 0.181         | 0.177         | 0.281        | 0.220    | 0.437    |
| 0.489             | 0.390       | 0.488         | 0.797           | 0.523           | 0.926          | 0.380         | 0.374         | 0.525        | 0.432    | 0.839    |
| 0.320             | 0.320       | 0.320         | 0.320           | 0.320           | 0.320          | 0.320         | 0.320         | 0.320        | 0.320    | 0.320    |
| 0.063             | 0.050       | 0.089         | 0.135           | 0.301           | 0.352          | 0.022         | 0.031         | 0.094        | 0.072    | 0.157    |
| 0.126             | 0.037       | 0.107         | 0.691           | 0.037           | 0.784          | 0.067         | 0.037         | 0.126        | 0.067    | 0.721    |
| /                 | /           | /             | /               | /               | /              | /             | /             | /            | /        | /        |
| 0.258             | 0.193       | 0.253         | 0.410           | 0.265           | 0.469          | 0.181         | 0.177         | 0.281        | 0.220    | 0.437    |
| 0.489             | 0.390       | 0.488         | 0.797           | 0.523           | 0.926          | 0.380         | 0.374         | 0.525        | 0.432    | 0.839    |
| 0.320             | 0.320       | 0.320         | 0.320           | 0.320           | 0.320          | 0.320         | 0.320         | 0.320        | 0.320    | 0.320    |
| 0.063             | 0.050       | 0.089         | 0.135           | 0.301           | 0.352          | 0.022         | 0.031         | 0.094        | 0.072    | 0.157    |
| 0.126             | 0.037       | 0.107         | 0.691           | 0.037           | 0.784          | 0.067         | 0.037         | 0.126        | 0.067    | 0.721    |
| /                 | /           | /             | /               | /               | /              | /             | /             | /            | /        | /        |



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|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.219 | 0.154 | 0.214 | 0.371 | 0.226 | 0.430 | 0.142 | 0.138 | 0.242 | 0.181 | 0.398 | 0.253 | 0.457 | 0.394 | 0.249 | 0.453 |
| 0.400 | 0.301 | 0.399 | 0.708 | 0.434 | 0.837 | 0.291 | 0.285 | 0.436 | 0.343 | 0.750 | 0.476 | 0.879 | 0.744 | 0.470 | 0.873 |
| 0.240 | 0.240 | 0.240 | 0.240 | 0.240 | 0.240 | 0.240 | 0.240 | 0.240 | 0.240 | 0.240 | 0.240 | 0.240 | 0.240 | 0.240 | 0.240 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.116 | 0.027 | 0.097 | 0.681 | 0.027 | 0.774 | 0.057 | 0.027 | 0.116 | 0.057 | 0.711 | 0.057 | 0.804 | 0.681 | 0.027 | 0.774 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.161 | 0.096 | 0.156 | 0.313 | 0.168 | 0.372 | 0.084 | 0.080 | 0.184 | 0.123 | 0.340 | 0.195 | 0.399 | 0.336 | 0.191 | 0.395 |
| 0.302 | 0.203 | 0.301 | 0.610 | 0.336 | 0.739 | 0.193 | 0.187 | 0.338 | 0.245 | 0.652 | 0.378 | 0.781 | 0.646 | 0.372 | 0.775 |
| 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.113 | 0.024 | 0.094 | 0.678 | 0.024 | 0.771 | 0.054 | 0.024 | 0.113 | 0.054 | 0.708 | 0.054 | 0.801 | 0.678 | 0.024 | 0.771 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.271 | 0.206 | 0.266 | 0.423 | 0.278 | 0.482 | 0.194 | 0.190 | 0.294 | 0.233 | 0.450 | 0.305 | 0.509 | 0.446 | 0.301 | 0.505 |
| 0.529 | 0.430 | 0.528 | 0.837 | 0.563 | 0.966 | 0.420 | 0.414 | 0.565 | 0.472 | 0.879 | 0.605 | 1.008 | 0.873 | 0.599 | 1.002 |
| 0.349 | 0.349 | 0.349 | 0.349 | 0.349 | 0.349 | 0.349 | 0.349 | 0.349 | 0.349 | 0.349 | 0.349 | 0.349 | 0.349 | 0.349 | 0.349 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.153 | 0.064 | 0.134 | 0.718 | 0.064 | 0.811 | 0.094 | 0.064 | 0.153 | 0.094 | 0.748 | 0.094 | 0.841 | 0.718 | 0.064 | 0.811 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.156 | 0.091 | 0.151 | 0.308 | 0.163 | 0.367 | 0.079 | 0.075 | 0.179 | 0.118 | 0.335 | 0.190 | 0.394 | 0.331 | 0.186 | 0.390 |
| 0.285 | 0.186 | 0.284 | 0.593 | 0.319 | 0.722 | 0.176 | 0.170 | 0.321 | 0.228 | 0.635 | 0.361 | 0.764 | 0.629 | 0.355 | 0.758 |
| 0.144 | 0.144 | 0.144 | 0.144 | 0.144 | 0.144 | 0.144 | 0.144 | 0.144 | 0.144 | 0.144 | 0.144 | 0.144 | 0.144 | 0.144 | 0.144 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.107 | 0.018 | 0.088 | 0.672 | 0.018 | 0.765 | 0.048 | 0.018 | 0.107 | 0.048 | 0.702 | 0.048 | 0.795 | 0.672 | 0.018 | 0.765 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |



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| Test position      |             | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |       |
|--------------------|-------------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|-------|
|                    |             | Main Ant13    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |       |
|                    |             | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |       |
| N77<br>(3450-3550) | Front side  | 0.056         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |       |       |       |       |       |
|                    | Back side   | 0.162         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |       |       |       |       |       |
|                    | Left side   | 0.280         | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
|                    | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |       |       |       |       |       |
|                    | Top side    | 0.170         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |       |       |       |       |       |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
| N77<br>(3700-3980) | Front side  | 0.035         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |       |       |       |       |       |
|                    | Back side   | 0.151         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |       |       |       |       |       |
|                    | Left side   | 0.233         | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
|                    | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |       |       |       |       |       |
|                    | Top side    | 0.089         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |       |       |       |       |       |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
| N78<br>(3450-3550) | Front side  | 0.091         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |       |       |       |       |       |
|                    | Back side   | 0.303         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |       |       |       |       |       |
|                    | Left side   | 0.467         | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
|                    | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |       |       |       |       |       |
|                    | Top side    | 0.250         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |       |       |       |       |       |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
| N78<br>(3700-3800) | Front side  | 0.061         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |       |       |       |       |       |
|                    | Back side   | 0.161         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |       |       |       |       |       |
|                    | Left side   | 0.211         | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
|                    | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |       |       |       |       |       |
|                    | Top side    | 0.143         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |       |       |       |       |       |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
| Summed SAR         |             |               |                 |                 |                |               |               |              |          |          |       |       |       |       |       |
| 1+2                | 1+3         | 1+4           | 1+5             | 1+6             | 1+7            | 1+8           | 1+9           | 1+2+9        | 1+3+8    | 1+5+8    | 1+6+8 | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.160              | 0.095       | 0.155         | 0.312           | 0.167           | 0.371          | 0.083         | 0.079         | 0.183        | 0.122    | 0.339    | 0.194 | 0.398 | 0.335 | 0.190 | 0.394 |
| 0.313              | 0.214       | 0.312         | 0.621           | 0.347           | 0.750          | 0.204         | 0.198         | 0.349        | 0.256    | 0.663    | 0.389 | 0.792 | 0.657 | 0.383 | 0.786 |
| 0.280              | 0.280       | 0.280         | 0.280           | 0.280           | 0.280          | 0.280         | 0.280         | 0.280        | 0.280    | 0.280    | 0.280 | 0.280 | 0.280 | 0.280 | 0.280 |
| 0.063              | 0.050       | 0.089         | 0.135           | 0.301           | 0.352          | 0.022         | 0.031         | 0.094        | 0.072    | 0.157    | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.259              | 0.170       | 0.240         | 0.824           | 0.170           | 0.917          | 0.200         | 0.170         | 0.259        | 0.200    | 0.854    | 0.200 | 0.947 | 0.824 | 0.170 | 0.917 |
| /                  | /           | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     | /     | /     |
| 0.139              | 0.074       | 0.134         | 0.291           | 0.146           | 0.350          | 0.062         | 0.058         | 0.162        | 0.101    | 0.318    | 0.173 | 0.377 | 0.314 | 0.169 | 0.373 |
| 0.302              | 0.203       | 0.301         | 0.610           | 0.336           | 0.739          | 0.193         | 0.187         | 0.338        | 0.245    | 0.652    | 0.378 | 0.781 | 0.646 | 0.372 | 0.775 |
| 0.233              | 0.233       | 0.233         | 0.233           | 0.233           | 0.233          | 0.233         | 0.233         | 0.233        | 0.233    | 0.233    | 0.233 | 0.233 | 0.233 | 0.233 | 0.233 |
| 0.063              | 0.050       | 0.089         | 0.135           | 0.301           | 0.352          | 0.022         | 0.031         | 0.094        | 0.072    | 0.157    | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.178              | 0.089       | 0.159         | 0.743           | 0.089           | 0.836          | 0.119         | 0.089         | 0.178        | 0.119    | 0.773    | 0.119 | 0.866 | 0.743 | 0.089 | 0.836 |
| /                  | /           | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     | /     | /     |
| 0.195              | 0.130       | 0.190         | 0.347           | 0.202           | 0.406          | 0.118         | 0.114         | 0.218        | 0.157    | 0.374    | 0.229 | 0.433 | 0.370 | 0.225 | 0.429 |
| 0.454              | 0.355       | 0.453         | 0.762           | 0.488           | 0.891          | 0.345         | 0.339         | 0.490        | 0.397    | 0.804    | 0.530 | 0.933 | 0.798 | 0.524 | 0.927 |
| 0.467              | 0.467       | 0.467         | 0.467           | 0.467           | 0.467          | 0.467         | 0.467         | 0.467        | 0.467    | 0.467    | 0.467 | 0.467 | 0.467 | 0.467 | 0.467 |
| 0.063              | 0.050       | 0.089         | 0.135           | 0.301           | 0.352          | 0.022         | 0.031         | 0.094        | 0.072    | 0.157    | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.339              | 0.250       | 0.320         | 0.904           | 0.250           | 0.997          | 0.280         | 0.250         | 0.339        | 0.280    | 0.934    | 0.280 | 1.027 | 0.904 | 0.250 | 0.997 |
| /                  | /           | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     | /     | /     |
| 0.165              | 0.100       | 0.160         | 0.317           | 0.172           | 0.376          | 0.088         | 0.084         | 0.188        | 0.127    | 0.344    | 0.199 | 0.403 | 0.340 | 0.195 | 0.399 |
| 0.312              | 0.213       | 0.311         | 0.620           | 0.346           | 0.749          | 0.203         | 0.197         | 0.348        | 0.255    | 0.662    | 0.388 | 0.791 | 0.656 | 0.382 | 0.785 |
| 0.211              | 0.211       | 0.211         | 0.211           | 0.211           | 0.211          | 0.211         | 0.211         | 0.211        | 0.211    | 0.211    | 0.211 | 0.211 | 0.211 | 0.211 | 0.211 |
| 0.063              | 0.050       | 0.089         | 0.135           | 0.301           | 0.352          | 0.022         | 0.031         | 0.094        | 0.072    | 0.157    | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.232              | 0.143       | 0.213         | 0.797           | 0.143           | 0.890          | 0.173         | 0.143         | 0.232        | 0.173    | 0.827    | 0.173 | 0.920 | 0.797 | 0.143 | 0.890 |
| /                  | /           | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     | /     | /     |



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| Test position      |             | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |       |
|--------------------|-------------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|-------|
|                    |             | Main Ant14    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |       |
|                    |             | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |       |
| N77<br>(3450-3550) | Front side  | 0.043         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |       |       |       |       |       |
|                    | Back side   | 0.045         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |       |       |       |       |       |
|                    | Left side   | 0.024         | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
|                    | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |       |       |       |       |       |
|                    | Top side    | 0.069         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |       |       |       |       |       |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
| N77<br>(3700-3980) | Front side  | 0.028         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |       |       |       |       |       |
|                    | Back side   | 0.015         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |       |       |       |       |       |
|                    | Left side   | 0.017         | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
|                    | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |       |       |       |       |       |
|                    | Top side    | 0.019         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |       |       |       |       |       |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
| N78<br>(3450-3550) | Front side  | 0.047         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |       |       |       |       |       |
|                    | Back side   | 0.058         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |       |       |       |       |       |
|                    | Left side   | 0.025         | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
|                    | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |       |       |       |       |       |
|                    | Top side    | 0.069         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |       |       |       |       |       |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
| N78<br>(3700-3800) | Front side  | 0.019         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |       |       |       |       |       |
|                    | Back side   | 0.022         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |       |       |       |       |       |
|                    | Left side   | 0.049         | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
|                    | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |       |       |       |       |       |
|                    | Top side    | 0.014         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |       |       |       |       |       |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
| Summed SAR         |             |               |                 |                 |                |               |               |              |          |          |       |       |       |       |       |
| 1+2                | 1+3         | 1+4           | 1+5             | 1+6             | 1+7            | 1+8           | 1+9           | 1+2+9        | 1+3+8    | 1+5+8    | 1+6+8 | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.147              | 0.082       | 0.142         | 0.299           | 0.154           | 0.358          | 0.070         | 0.066         | 0.170        | 0.109    | 0.326    | 0.181 | 0.385 | 0.322 | 0.177 | 0.381 |
| 0.196              | 0.097       | 0.195         | 0.504           | 0.230           | 0.633          | 0.087         | 0.081         | 0.232        | 0.139    | 0.546    | 0.272 | 0.675 | 0.540 | 0.266 | 0.669 |
| 0.024              | 0.024       | 0.024         | 0.024           | 0.024           | 0.024          | 0.024         | 0.024         | 0.024        | 0.024    | 0.024    | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 |
| 0.063              | 0.050       | 0.089         | 0.135           | 0.301           | 0.352          | 0.022         | 0.031         | 0.094        | 0.072    | 0.157    | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.158              | 0.069       | 0.139         | 0.723           | 0.069           | 0.816          | 0.099         | 0.069         | 0.158        | 0.099    | 0.753    | 0.099 | 0.846 | 0.723 | 0.069 | 0.816 |
| /                  | /           | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     | /     | /     |
| 0.132              | 0.067       | 0.127         | 0.284           | 0.139           | 0.343          | 0.055         | 0.051         | 0.155        | 0.094    | 0.311    | 0.166 | 0.370 | 0.307 | 0.162 | 0.366 |
| 0.166              | 0.067       | 0.165         | 0.474           | 0.200           | 0.603          | 0.057         | 0.051         | 0.202        | 0.109    | 0.516    | 0.242 | 0.645 | 0.510 | 0.236 | 0.639 |
| 0.017              | 0.017       | 0.017         | 0.017           | 0.017           | 0.017          | 0.017         | 0.017         | 0.017        | 0.017    | 0.017    | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 |
| 0.063              | 0.050       | 0.089         | 0.135           | 0.301           | 0.352          | 0.022         | 0.031         | 0.094        | 0.072    | 0.157    | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.108              | 0.019       | 0.089         | 0.673           | 0.019           | 0.766          | 0.049         | 0.019         | 0.108        | 0.049    | 0.703    | 0.049 | 0.796 | 0.673 | 0.019 | 0.766 |
| /                  | /           | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     | /     | /     |
| 0.151              | 0.086       | 0.146         | 0.303           | 0.158           | 0.362          | 0.074         | 0.070         | 0.174        | 0.113    | 0.330    | 0.185 | 0.389 | 0.326 | 0.181 | 0.385 |
| 0.209              | 0.110       | 0.208         | 0.517           | 0.243           | 0.646          | 0.100         | 0.094         | 0.245        | 0.152    | 0.559    | 0.285 | 0.688 | 0.553 | 0.279 | 0.682 |
| 0.025              | 0.025       | 0.025         | 0.025           | 0.025           | 0.025          | 0.025         | 0.025         | 0.025        | 0.025    | 0.025    | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| 0.063              | 0.050       | 0.089         | 0.135           | 0.301           | 0.352          | 0.022         | 0.031         | 0.094        | 0.072    | 0.157    | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.158              | 0.069       | 0.139         | 0.723           | 0.069           | 0.816          | 0.099         | 0.069         | 0.158        | 0.099    | 0.753    | 0.099 | 0.846 | 0.723 | 0.069 | 0.816 |
| /                  | /           | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     | /     | /     |
| 0.123              | 0.058       | 0.118         | 0.275           | 0.130           | 0.334          | 0.046         | 0.042         | 0.146        | 0.085    | 0.302    | 0.157 | 0.361 | 0.298 | 0.153 | 0.357 |
| 0.173              | 0.074       | 0.172         | 0.481           | 0.207           | 0.610          | 0.064         | 0.058         | 0.209        | 0.116    | 0.523    | 0.249 | 0.652 | 0.517 | 0.243 | 0.646 |
| 0.049              | 0.049       | 0.049         | 0.049           | 0.049           | 0.049          | 0.049         | 0.049         | 0.049        | 0.049    | 0.049    | 0.049 | 0.049 | 0.049 | 0.049 | 0.049 |
| 0.063              | 0.050       | 0.089         | 0.135           | 0.301           | 0.352          | 0.022         | 0.031         | 0.094        | 0.072    | 0.157    | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.103              | 0.014       | 0.084         | 0.668           | 0.014           | 0.761          | 0.044         | 0.014         | 0.103        | 0.044    | 0.698    | 0.044 | 0.791 | 0.668 | 0.014 | 0.761 |
| /                  | /           | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     | /     | /     |



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| Test position |             | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |
|---------------|-------------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|
|               |             | Main Ant15    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |
|               |             | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |
| GSM1900       | Front side  | 0.293         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.395         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|               | Left side   | 0.160         | /               | /               | /              | /             | /             | /            | /        | /        |
|               | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|               | Top side    | 0.516         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|               | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |
| WCDMA B2      | Front side  | 0.244         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.325         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|               | Left side   | 0.107         | /               | /               | /              | /             | /             | /            | /        | /        |
|               | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|               | Top side    | 0.437         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|               | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |
| WCDMA B4      | Front side  | 0.288         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.386         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|               | Left side   | 0.123         | /               | /               | /              | /             | /             | /            | /        | /        |
|               | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|               | Top side    | 0.436         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|               | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |
| LTE B2        | Front side  | 0.247         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.279         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|               | Left side   | 0.110         | /               | /               | /              | /             | /             | /            | /        | /        |
|               | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|               | Top side    | 0.417         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|               | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |
| LTE B4        | Front side  | 0.324         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.488         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|               | Left side   | 0.111         | /               | /               | /              | /             | /             | /            | /        | /        |
|               | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|               | Top side    | 0.563         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|               | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |
| LTE B7        | Front side  | 0.271         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.314         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|               | Left side   | 0.161         | /               | /               | /              | /             | /             | /            | /        | /        |
|               | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|               | Top side    | 0.361         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|               | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |
| LTE B41       | Front side  | 0.263         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.348         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|               | Left side   | 0.145         | /               | /               | /              | /             | /             | /            | /        | /        |
|               | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|               | Top side    | 0.335         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|               | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |
| LTE B66       | Front side  | 0.283         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.420         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|               | Left side   | 0.095         | /               | /               | /              | /             | /             | /            | /        | /        |
|               | Right side  | /             | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|               | Top side    | 0.491         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|               | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |
| N2            | Front side  | 0.215         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.326         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |



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|            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | Left side   | 0.110 | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
|            | Right side  | /     | 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 |       |       |       |       |       |
|            | Top side    | 0.390 | 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     |       |       |       |       |       |
|            | Bottom side | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| N7         | Front side  | 0.299 | 0.104 | 0.039 | 0.099 | 0.256 | 0.111 | 0.315 | 0.027 | 0.023 |       |       |       |       |       |
|            | Back side   | 0.346 | 0.151 | 0.052 | 0.150 | 0.459 | 0.185 | 0.588 | 0.042 | 0.036 |       |       |       |       |       |
|            | Left side   | 0.181 | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
|            | Right side  | /     | 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 |       |       |       |       |       |
|            | Top side    | 0.357 | 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     |       |       |       |       |       |
| N66        | Bottom side | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
|            | Front side  | 0.295 | 0.104 | 0.039 | 0.099 | 0.256 | 0.111 | 0.315 | 0.027 | 0.023 |       |       |       |       |       |
|            | Back side   | 0.448 | 0.151 | 0.052 | 0.150 | 0.459 | 0.185 | 0.588 | 0.042 | 0.036 |       |       |       |       |       |
|            | Left side   | 0.118 | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
|            | Right side  | /     | 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 |       |       |       |       |       |
|            | Top side    | 0.415 | 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     |       |       |       |       |       |
|            | Bottom side | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| Summed SAR |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1+2        | 1+3         | 1+4   | 1+5   | 1+6   | 1+7   | 1+8   | 1+9   | 1+2+9 | 1+3+8 | 1+5+8 | 1+6+8 | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.397      | 0.332       | 0.392 | 0.549 | 0.404 | 0.608 | 0.320 | 0.316 | 0.420 | 0.359 | 0.576 | 0.431 | 0.635 | 0.572 | 0.427 | 0.631 |
| 0.546      | 0.447       | 0.545 | 0.854 | 0.580 | 0.983 | 0.437 | 0.431 | 0.582 | 0.489 | 0.896 | 0.622 | 1.025 | 0.890 | 0.616 | 1.019 |
| 0.160      | 0.160       | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 | 0.160 |
| 0.063      | 0.050       | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.605      | 0.516       | 0.586 | 1.170 | 0.516 | 1.263 | 0.546 | 0.516 | 0.605 | 0.546 | 1.200 | 0.546 | 1.293 | 1.170 | 0.516 | 1.263 |
| /          | /           | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.348      | 0.283       | 0.343 | 0.500 | 0.355 | 0.559 | 0.271 | 0.267 | 0.371 | 0.310 | 0.527 | 0.382 | 0.586 | 0.523 | 0.378 | 0.582 |
| 0.476      | 0.377       | 0.475 | 0.784 | 0.510 | 0.913 | 0.367 | 0.361 | 0.512 | 0.419 | 0.826 | 0.552 | 0.955 | 0.820 | 0.546 | 0.949 |
| 0.107      | 0.107       | 0.107 | 0.107 | 0.107 | 0.107 | 0.107 | 0.107 | 0.107 | 0.107 | 0.107 | 0.107 | 0.107 | 0.107 | 0.107 | 0.107 |
| 0.063      | 0.050       | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.526      | 0.437       | 0.507 | 1.091 | 0.437 | 1.184 | 0.467 | 0.437 | 0.526 | 0.467 | 1.121 | 0.467 | 1.214 | 1.091 | 0.437 | 1.184 |
| /          | /           | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.392      | 0.327       | 0.387 | 0.544 | 0.399 | 0.603 | 0.315 | 0.311 | 0.415 | 0.354 | 0.571 | 0.426 | 0.630 | 0.567 | 0.422 | 0.626 |
| 0.537      | 0.438       | 0.536 | 0.845 | 0.571 | 0.974 | 0.428 | 0.422 | 0.573 | 0.480 | 0.887 | 0.613 | 1.016 | 0.881 | 0.607 | 1.010 |
| 0.123      | 0.123       | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 |
| 0.063      | 0.050       | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.525      | 0.436       | 0.506 | 1.090 | 0.436 | 1.183 | 0.466 | 0.436 | 0.525 | 0.466 | 1.120 | 0.466 | 1.213 | 1.090 | 0.436 | 1.183 |
| /          | /           | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.351      | 0.286       | 0.346 | 0.503 | 0.358 | 0.562 | 0.274 | 0.270 | 0.374 | 0.313 | 0.530 | 0.385 | 0.589 | 0.526 | 0.381 | 0.585 |
| 0.430      | 0.331       | 0.429 | 0.738 | 0.464 | 0.867 | 0.321 | 0.315 | 0.466 | 0.373 | 0.780 | 0.506 | 0.909 | 0.774 | 0.500 | 0.903 |
| 0.110      | 0.110       | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 |
| 0.063      | 0.050       | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.506      | 0.417       | 0.487 | 1.071 | 0.417 | 1.164 | 0.447 | 0.417 | 0.506 | 0.447 | 1.101 | 0.447 | 1.194 | 1.071 | 0.417 | 1.164 |
| /          | /           | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.428      | 0.363       | 0.423 | 0.580 | 0.435 | 0.639 | 0.351 | 0.347 | 0.451 | 0.390 | 0.607 | 0.462 | 0.666 | 0.603 | 0.458 | 0.662 |
| 0.639      | 0.540       | 0.638 | 0.947 | 0.673 | 1.076 | 0.530 | 0.524 | 0.675 | 0.582 | 0.989 | 0.715 | 1.118 | 0.983 | 0.709 | 1.112 |
| 0.111      | 0.111       | 0.111 | 0.111 | 0.111 | 0.111 | 0.111 | 0.111 | 0.111 | 0.111 | 0.111 | 0.111 | 0.111 | 0.111 | 0.111 | 0.111 |
| 0.063      | 0.050       | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.652      | 0.563       | 0.633 | 1.217 | 0.563 | 1.310 | 0.593 | 0.563 | 0.652 | 0.593 | 1.247 | 0.593 | 1.340 | 1.217 | 0.563 | 1.310 |
| /          | /           | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.375      | 0.310       | 0.370 | 0.527 | 0.382 | 0.586 | 0.298 | 0.294 | 0.398 | 0.337 | 0.554 | 0.409 | 0.613 | 0.550 | 0.405 | 0.609 |
| 0.465      | 0.366       | 0.464 | 0.773 | 0.499 | 0.902 | 0.356 | 0.350 | 0.501 | 0.408 | 0.815 | 0.541 | 0.944 | 0.809 | 0.535 | 0.938 |
| 0.161      | 0.161       | 0.161 | 0.161 | 0.161 | 0.161 | 0.161 | 0.161 | 0.161 | 0.161 | 0.161 | 0.161 | 0.161 | 0.161 | 0.161 | 0.161 |
| 0.063      | 0.050       | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.450      | 0.361       | 0.431 | 1.015 | 0.361 | 1.108 | 0.391 | 0.361 | 0.450 | 0.391 | 1.045 | 0.391 | 1.138 | 1.015 | 0.361 | 1.108 |
| /          | /           | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.367      | 0.302       | 0.362 | 0.519 | 0.374 | 0.578 | 0.290 | 0.286 | 0.390 | 0.329 | 0.546 | 0.401 | 0.605 | 0.542 | 0.397 | 0.601 |
| 0.499      | 0.400       | 0.498 | 0.807 | 0.533 | 0.936 | 0.390 | 0.384 | 0.535 | 0.442 | 0.849 | 0.575 | 0.978 | 0.843 | 0.569 | 0.972 |



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|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.145 | 0.145 | 0.145 | 0.145 | 0.145 | 0.145 | 0.145 | 0.145 | 0.145 | 0.145 | 0.145 | 0.145 | 0.145 | 0.145 | 0.145 | 0.145 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.424 | 0.335 | 0.405 | 0.989 | 0.335 | 1.082 | 0.365 | 0.335 | 0.424 | 0.365 | 1.019 | 0.365 | 1.112 | 0.989 | 0.335 | 1.082 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.387 | 0.322 | 0.382 | 0.539 | 0.394 | 0.598 | 0.310 | 0.306 | 0.410 | 0.349 | 0.566 | 0.421 | 0.625 | 0.562 | 0.417 | 0.621 |
| 0.571 | 0.472 | 0.570 | 0.879 | 0.605 | 1.008 | 0.462 | 0.456 | 0.607 | 0.514 | 0.921 | 0.647 | 1.050 | 0.915 | 0.641 | 1.044 |
| 0.095 | 0.095 | 0.095 | 0.095 | 0.095 | 0.095 | 0.095 | 0.095 | 0.095 | 0.095 | 0.095 | 0.095 | 0.095 | 0.095 | 0.095 | 0.095 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.580 | 0.491 | 0.561 | 1.145 | 0.491 | 1.238 | 0.521 | 0.491 | 0.580 | 0.521 | 1.175 | 0.521 | 1.268 | 1.145 | 0.491 | 1.238 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.319 | 0.254 | 0.314 | 0.471 | 0.326 | 0.530 | 0.242 | 0.238 | 0.342 | 0.281 | 0.498 | 0.353 | 0.557 | 0.494 | 0.349 | 0.553 |
| 0.477 | 0.378 | 0.476 | 0.785 | 0.511 | 0.914 | 0.368 | 0.362 | 0.513 | 0.420 | 0.827 | 0.553 | 0.956 | 0.821 | 0.547 | 0.950 |
| 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 | 0.110 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.479 | 0.390 | 0.460 | 1.044 | 0.390 | 1.137 | 0.420 | 0.390 | 0.479 | 0.420 | 1.074 | 0.420 | 1.167 | 1.044 | 0.390 | 1.137 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.403 | 0.338 | 0.398 | 0.555 | 0.410 | 0.614 | 0.326 | 0.322 | 0.426 | 0.365 | 0.582 | 0.437 | 0.641 | 0.578 | 0.433 | 0.637 |
| 0.497 | 0.398 | 0.496 | 0.805 | 0.531 | 0.934 | 0.388 | 0.382 | 0.533 | 0.440 | 0.847 | 0.573 | 0.976 | 0.841 | 0.567 | 0.970 |
| 0.181 | 0.181 | 0.181 | 0.181 | 0.181 | 0.181 | 0.181 | 0.181 | 0.181 | 0.181 | 0.181 | 0.181 | 0.181 | 0.181 | 0.181 | 0.181 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.446 | 0.357 | 0.427 | 1.011 | 0.357 | 1.104 | 0.387 | 0.357 | 0.446 | 0.387 | 1.041 | 0.387 | 1.134 | 1.011 | 0.357 | 1.104 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.399 | 0.334 | 0.394 | 0.551 | 0.406 | 0.610 | 0.322 | 0.318 | 0.422 | 0.361 | 0.578 | 0.433 | 0.637 | 0.574 | 0.429 | 0.633 |
| 0.599 | 0.500 | 0.598 | 0.907 | 0.633 | 1.036 | 0.490 | 0.484 | 0.635 | 0.542 | 0.949 | 0.675 | 1.078 | 0.943 | 0.669 | 1.072 |
| 0.118 | 0.118 | 0.118 | 0.118 | 0.118 | 0.118 | 0.118 | 0.118 | 0.118 | 0.118 | 0.118 | 0.118 | 0.118 | 0.118 | 0.118 | 0.118 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.504 | 0.415 | 0.485 | 1.069 | 0.415 | 1.162 | 0.445 | 0.415 | 0.504 | 0.445 | 1.099 | 0.445 | 1.192 | 1.069 | 0.415 | 1.162 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |



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| Test position      |             |       | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |
|--------------------|-------------|-------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|
|                    |             |       | Main Ant21    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |
|                    |             |       | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |
| N77<br>(3450-3550) | Front side  | 0.043 | 0.104         | 0.039           | 0.099           | 0.256          | 0.111         | 0.315         | 0.027        | 0.023    |          |       |       |       |       |
|                    | Back side   | 0.045 | 0.151         | 0.052           | 0.150           | 0.459          | 0.185         | 0.588         | 0.042        | 0.036    |          |       |       |       |       |
|                    | Left side   | 0.024 | /             | /               | /               | /              | /             | /             | /            | /        |          |       |       |       |       |
|                    | Right side  | 0.000 | 0.063         | 0.050           | 0.089           | 0.135          | 0.301         | 0.352         | 0.022        | 0.031    |          |       |       |       |       |
|                    | Top side    | 0.069 | 0.089         | /               | 0.070           | 0.654          | /             | 0.747         | 0.030        | /        |          |       |       |       |       |
|                    | Bottom side | /     | /             | /               | /               | /              | /             | /             | /            | /        |          |       |       |       |       |
| N77<br>(3700-3980) | Front side  | 0.028 | 0.104         | 0.039           | 0.099           | 0.256          | 0.111         | 0.315         | 0.027        | 0.023    |          |       |       |       |       |
|                    | Back side   | 0.015 | 0.151         | 0.052           | 0.150           | 0.459          | 0.185         | 0.588         | 0.042        | 0.036    |          |       |       |       |       |
|                    | Left side   | 0.017 | /             | /               | /               | /              | /             | /             | /            | /        |          |       |       |       |       |
|                    | Right side  | 0.003 | 0.063         | 0.050           | 0.089           | 0.135          | 0.301         | 0.352         | 0.022        | 0.031    |          |       |       |       |       |
|                    | Top side    | 0.031 | 0.089         | /               | 0.070           | 0.654          | /             | 0.747         | 0.030        | /        |          |       |       |       |       |
|                    | Bottom side | /     | /             | /               | /               | /              | /             | /             | /            | /        |          |       |       |       |       |
| N78<br>(3450-3550) | Front side  | 0.047 | 0.104         | 0.039           | 0.099           | 0.256          | 0.111         | 0.315         | 0.027        | 0.023    |          |       |       |       |       |
|                    | Back side   | 0.058 | 0.151         | 0.052           | 0.150           | 0.459          | 0.185         | 0.588         | 0.042        | 0.036    |          |       |       |       |       |
|                    | Left side   | 0.025 | /             | /               | /               | /              | /             | /             | /            | /        |          |       |       |       |       |
|                    | Right side  | 0.000 | 0.063         | 0.050           | 0.089           | 0.135          | 0.301         | 0.352         | 0.022        | 0.031    |          |       |       |       |       |
|                    | Top side    | 0.069 | 0.089         | /               | 0.070           | 0.654          | /             | 0.747         | 0.030        | /        |          |       |       |       |       |
|                    | Bottom side | /     | /             | /               | /               | /              | /             | /             | /            | /        |          |       |       |       |       |
| N78<br>(3700-3800) | Front side  | 0.019 | 0.104         | 0.039           | 0.099           | 0.256          | 0.111         | 0.315         | 0.027        | 0.023    |          |       |       |       |       |
|                    | Back side   | 0.022 | 0.151         | 0.052           | 0.150           | 0.459          | 0.185         | 0.588         | 0.042        | 0.036    |          |       |       |       |       |
|                    | Left side   | 0.049 | /             | /               | /               | /              | /             | /             | /            | /        |          |       |       |       |       |
|                    | Right side  | 0.004 | 0.063         | 0.050           | 0.089           | 0.135          | 0.301         | 0.352         | 0.022        | 0.031    |          |       |       |       |       |
|                    | Top side    | 0.041 | 0.089         | /               | 0.070           | 0.654          | /             | 0.747         | 0.030        | /        |          |       |       |       |       |
|                    | Bottom side | /     | /             | /               | /               | /              | /             | /             | /            | /        |          |       |       |       |       |
| Summed SAR         |             |       |               |                 |                 |                |               |               |              |          |          |       |       |       |       |
| 1+2                | 1+3         | 1+4   | 1+5           | 1+6             | 1+7             | 1+8            | 1+9           | 1+2+9         | 1+3+8        | 1+5+8    | 1+6+8    | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.147              | 0.082       | 0.142 | 0.299         | 0.154           | 0.358           | 0.070          | 0.066         | 0.170         | 0.109        | 0.326    | 0.181    | 0.385 | 0.322 | 0.177 | 0.381 |
| 0.196              | 0.097       | 0.195 | 0.504         | 0.230           | 0.633           | 0.087          | 0.081         | 0.232         | 0.139        | 0.546    | 0.272    | 0.675 | 0.540 | 0.266 | 0.669 |
| 0.024              | 0.024       | 0.024 | 0.024         | 0.024           | 0.024           | 0.024          | 0.024         | 0.024         | 0.024        | 0.024    | 0.024    | 0.024 | 0.024 | 0.024 | 0.024 |
| 0.063              | 0.050       | 0.089 | 0.135         | 0.301           | 0.352           | 0.022          | 0.031         | 0.094         | 0.072        | 0.157    | 0.323    | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.158              | 0.069       | 0.139 | 0.723         | 0.069           | 0.816           | 0.099          | 0.069         | 0.158         | 0.099        | 0.753    | 0.099    | 0.846 | 0.723 | 0.069 | 0.816 |
| /                  | /           | /     | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     | /     |
| 0.132              | 0.067       | 0.127 | 0.284         | 0.139           | 0.343           | 0.055          | 0.051         | 0.155         | 0.094        | 0.311    | 0.166    | 0.370 | 0.307 | 0.162 | 0.366 |
| 0.166              | 0.067       | 0.165 | 0.474         | 0.200           | 0.603           | 0.057          | 0.051         | 0.202         | 0.109        | 0.516    | 0.242    | 0.645 | 0.510 | 0.236 | 0.639 |
| 0.017              | 0.017       | 0.017 | 0.017         | 0.017           | 0.017           | 0.017          | 0.017         | 0.017         | 0.017        | 0.017    | 0.017    | 0.017 | 0.017 | 0.017 | 0.017 |
| 0.066              | 0.053       | 0.092 | 0.138         | 0.304           | 0.355           | 0.025          | 0.034         | 0.097         | 0.075        | 0.160    | 0.326    | 0.377 | 0.169 | 0.335 | 0.386 |
| 0.120              | 0.031       | 0.101 | 0.685         | 0.031           | 0.778           | 0.061          | 0.031         | 0.120         | 0.061        | 0.715    | 0.061    | 0.808 | 0.685 | 0.031 | 0.778 |
| /                  | /           | /     | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     | /     |
| 0.151              | 0.086       | 0.146 | 0.303         | 0.158           | 0.362           | 0.074          | 0.070         | 0.174         | 0.113        | 0.330    | 0.185    | 0.389 | 0.326 | 0.181 | 0.385 |
| 0.209              | 0.110       | 0.208 | 0.517         | 0.243           | 0.646           | 0.100          | 0.094         | 0.245         | 0.152        | 0.559    | 0.285    | 0.688 | 0.553 | 0.279 | 0.682 |
| 0.025              | 0.025       | 0.025 | 0.025         | 0.025           | 0.025           | 0.025          | 0.025         | 0.025         | 0.025        | 0.025    | 0.025    | 0.025 | 0.025 | 0.025 | 0.025 |
| 0.063              | 0.050       | 0.089 | 0.135         | 0.301           | 0.352           | 0.022          | 0.031         | 0.094         | 0.072        | 0.157    | 0.323    | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.158              | 0.069       | 0.139 | 0.723         | 0.069           | 0.816           | 0.099          | 0.069         | 0.158         | 0.099        | 0.753    | 0.099    | 0.846 | 0.723 | 0.069 | 0.816 |
| /                  | /           | /     | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     | /     |
| 0.123              | 0.058       | 0.118 | 0.275         | 0.130           | 0.334           | 0.046          | 0.042         | 0.146         | 0.085        | 0.302    | 0.157    | 0.361 | 0.298 | 0.153 | 0.357 |
| 0.173              | 0.074       | 0.172 | 0.481         | 0.207           | 0.610           | 0.064          | 0.058         | 0.209         | 0.116        | 0.523    | 0.249    | 0.652 | 0.517 | 0.243 | 0.646 |
| 0.049              | 0.049       | 0.049 | 0.049         | 0.049           | 0.049           | 0.049          | 0.049         | 0.049         | 0.049        | 0.049    | 0.049    | 0.049 | 0.049 | 0.049 | 0.049 |
| 0.067              | 0.054       | 0.093 | 0.139         | 0.305           | 0.356           | 0.026          | 0.035         | 0.098         | 0.076        | 0.161    | 0.327    | 0.378 | 0.170 | 0.336 | 0.387 |
| 0.130              | 0.041       | 0.111 | 0.695         | 0.041           | 0.788           | 0.071          | 0.041         | 0.130         | 0.071        | 0.725    | 0.071    | 0.818 | 0.695 | 0.041 | 0.788 |
| /                  | /           | /     | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     | /     |



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| Test position      |             | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |       |       |       |       |       |
|--------------------|-------------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|-------|-------|-------|-------|-------|
|                    |             | Main Ant23    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |       |       |       |       |       |
|                    |             | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |       |       |       |       |       |
| N38                | Front side  | 0.110         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |       |       |       |       |       |
|                    | Back side   | 0.187         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |       |       |       |       |       |
|                    | Left side   | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
|                    | Right side  | 0.231         | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |       |       |       |       |       |
|                    | Top side    | 0.047         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |       |       |       |       |       |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
| N41                | Front side  | 0.105         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |       |       |       |       |       |
|                    | Back side   | 0.162         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |       |       |       |       |       |
|                    | Left side   | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
|                    | Right side  | 0.225         | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |       |       |       |       |       |
|                    | Top side    | 0.037         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |       |       |       |       |       |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
| N77<br>(3450-3550) | Front side  | 0.078         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |       |       |       |       |       |
|                    | Back side   | 0.221         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |       |       |       |       |       |
|                    | Left side   | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
|                    | Right side  | 0.301         | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |       |       |       |       |       |
|                    | Top side    | 0.057         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |       |       |       |       |       |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
| N77<br>(3700-3980) | Front side  | 0.129         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |       |       |       |       |       |
|                    | Back side   | 0.298         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |       |       |       |       |       |
|                    | Left side   | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
|                    | Right side  | 0.292         | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |       |       |       |       |       |
|                    | Top side    | 0.118         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |       |       |       |       |       |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
| N78<br>(3450-3550) | Front side  | 0.054         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |       |       |       |       |       |
|                    | Back side   | 0.170         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |       |       |       |       |       |
|                    | Left side   | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
|                    | Right side  | 0.195         | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |       |       |       |       |       |
|                    | Top side    | 0.096         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |       |       |       |       |       |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
| N78<br>(3700-3800) | Front side  | 0.119         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |       |       |       |       |       |
|                    | Back side   | 0.250         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |       |       |       |       |       |
|                    | Left side   | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
|                    | Right side  | 0.346         | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |       |       |       |       |       |
|                    | Top side    | 0.104         | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |       |       |       |       |       |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        |       |       |       |       |       |
| Summed SAR         |             |               |                 |                 |                |               |               |              |          |          |       |       |       |       |       |
| 1+2                | 1+3         | 1+4           | 1+5             | 1+6             | 1+7            | 1+8           | 1+9           | 1+2+9        | 1+3+8    | 1+5+8    | 1+6+8 | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.214              | 0.149       | 0.209         | 0.366           | 0.221           | 0.425          | 0.137         | 0.133         | 0.237        | 0.176    | 0.393    | 0.248 | 0.452 | 0.389 | 0.244 | 0.448 |
| 0.338              | 0.239       | 0.337         | 0.646           | 0.372           | 0.775          | 0.229         | 0.223         | 0.374        | 0.281    | 0.688    | 0.414 | 0.817 | 0.682 | 0.408 | 0.811 |
| /                  | /           | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     | /     | /     |
| 0.294              | 0.281       | 0.320         | 0.366           | 0.532           | 0.583          | 0.253         | 0.262         | 0.325        | 0.303    | 0.388    | 0.554 | 0.605 | 0.397 | 0.563 | 0.614 |
| 0.136              | 0.047       | 0.117         | 0.701           | 0.047           | 0.794          | 0.077         | 0.047         | 0.136        | 0.077    | 0.731    | 0.077 | 0.824 | 0.701 | 0.047 | 0.794 |
| /                  | /           | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     | /     | /     |
| 0.209              | 0.144       | 0.204         | 0.361           | 0.216           | 0.420          | 0.132         | 0.128         | 0.232        | 0.171    | 0.388    | 0.243 | 0.447 | 0.384 | 0.239 | 0.443 |
| 0.313              | 0.214       | 0.312         | 0.621           | 0.347           | 0.750          | 0.204         | 0.198         | 0.349        | 0.256    | 0.663    | 0.389 | 0.792 | 0.657 | 0.383 | 0.786 |
| /                  | /           | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     | /     | /     |
| 0.288              | 0.275       | 0.314         | 0.360           | 0.526           | 0.577          | 0.247         | 0.256         | 0.319        | 0.297    | 0.382    | 0.548 | 0.599 | 0.391 | 0.557 | 0.608 |
| 0.126              | 0.037       | 0.107         | 0.691           | 0.037           | 0.784          | 0.067         | 0.037         | 0.126        | 0.067    | 0.721    | 0.067 | 0.814 | 0.691 | 0.037 | 0.784 |
| /                  | /           | /             | /               | /               | /              | /             | /             | /            | /        | /        | /     | /     | /     | /     | /     |
| 0.182              | 0.117       | 0.177         | 0.334           | 0.189           | 0.393          | 0.105         | 0.101         | 0.205        | 0.144    | 0.361    | 0.216 | 0.420 | 0.357 | 0.212 | 0.416 |



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|       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.372 | 0.273 | 0.371 | 0.680 | 0.406 | 0.809 | 0.263 | 0.257 | 0.408 | 0.315 | 0.722 | 0.448 | 0.851 | 0.716 | 0.442 | 0.845 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.364 | 0.351 | 0.390 | 0.436 | 0.602 | 0.653 | 0.323 | 0.332 | 0.395 | 0.373 | 0.458 | 0.624 | 0.675 | 0.467 | 0.633 | 0.684 |
| 0.146 | 0.057 | 0.127 | 0.711 | 0.057 | 0.804 | 0.087 | 0.057 | 0.146 | 0.087 | 0.741 | 0.087 | 0.834 | 0.711 | 0.057 | 0.804 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.233 | 0.168 | 0.228 | 0.385 | 0.240 | 0.444 | 0.156 | 0.152 | 0.256 | 0.195 | 0.412 | 0.267 | 0.471 | 0.408 | 0.263 | 0.467 |
| 0.449 | 0.350 | 0.448 | 0.757 | 0.483 | 0.886 | 0.340 | 0.334 | 0.485 | 0.392 | 0.799 | 0.525 | 0.928 | 0.793 | 0.519 | 0.922 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.355 | 0.342 | 0.381 | 0.427 | 0.593 | 0.644 | 0.314 | 0.323 | 0.386 | 0.364 | 0.449 | 0.615 | 0.666 | 0.458 | 0.624 | 0.675 |
| 0.207 | 0.118 | 0.188 | 0.772 | 0.118 | 0.865 | 0.148 | 0.118 | 0.207 | 0.148 | 0.802 | 0.148 | 0.895 | 0.772 | 0.118 | 0.865 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.158 | 0.093 | 0.153 | 0.310 | 0.165 | 0.369 | 0.081 | 0.077 | 0.181 | 0.120 | 0.337 | 0.192 | 0.396 | 0.333 | 0.188 | 0.392 |
| 0.321 | 0.222 | 0.320 | 0.629 | 0.355 | 0.758 | 0.212 | 0.206 | 0.357 | 0.264 | 0.671 | 0.397 | 0.800 | 0.665 | 0.391 | 0.794 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.258 | 0.245 | 0.284 | 0.330 | 0.496 | 0.547 | 0.217 | 0.226 | 0.289 | 0.267 | 0.352 | 0.518 | 0.569 | 0.361 | 0.527 | 0.578 |
| 0.185 | 0.096 | 0.166 | 0.750 | 0.096 | 0.843 | 0.126 | 0.096 | 0.185 | 0.126 | 0.780 | 0.126 | 0.873 | 0.750 | 0.096 | 0.843 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.223 | 0.158 | 0.218 | 0.375 | 0.230 | 0.434 | 0.146 | 0.142 | 0.246 | 0.185 | 0.402 | 0.257 | 0.461 | 0.398 | 0.253 | 0.457 |
| 0.401 | 0.302 | 0.400 | 0.709 | 0.435 | 0.838 | 0.292 | 0.286 | 0.437 | 0.344 | 0.751 | 0.477 | 0.880 | 0.745 | 0.471 | 0.874 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.409 | 0.396 | 0.435 | 0.481 | 0.647 | 0.698 | 0.368 | 0.377 | 0.440 | 0.418 | 0.503 | 0.669 | 0.720 | 0.512 | 0.678 | 0.729 |
| 0.193 | 0.104 | 0.174 | 0.758 | 0.104 | 0.851 | 0.134 | 0.104 | 0.193 | 0.134 | 0.788 | 0.134 | 0.881 | 0.758 | 0.104 | 0.851 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |



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| Test position |             | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |
|---------------|-------------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|
|               |             | Main Ant31    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 |
|               |             | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        |
| GSM1900       | Front side  | 0.323         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.433         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|               | Left side   | /             | /               | /               | /              | /             | /             | /            | /        | /        |
|               | Right side  | 0.077         | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|               | Top side    | /             | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|               | Bottom side | 0.286         | /               | /               | /              | /             | /             | /            | /        | /        |
| WCDMA B2      | Front side  | 0.301         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.370         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|               | Left side   | /             | /               | /               | /              | /             | /             | /            | /        | /        |
|               | Right side  | 0.100         | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|               | Top side    | /             | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|               | Bottom side | 0.398         | /               | /               | /              | /             | /             | /            | /        | /        |
| WCDMA B4      | Front side  | 0.253         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.352         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|               | Left side   | /             | /               | /               | /              | /             | /             | /            | /        | /        |
|               | Right side  | 0.087         | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|               | Top side    | /             | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|               | Bottom side | 0.432         | /               | /               | /              | /             | /             | /            | /        | /        |
| LTE B2        | Front side  | 0.233         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.353         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|               | Left side   | /             | /               | /               | /              | /             | /             | /            | /        | /        |
|               | Right side  | 0.086         | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|               | Top side    | /             | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|               | Bottom side | 0.425         | /               | /               | /              | /             | /             | /            | /        | /        |
| LTE B4        | Front side  | 0.279         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.377         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|               | Left side   | /             | /               | /               | /              | /             | /             | /            | /        | /        |
|               | Right side  | 0.070         | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|               | Top side    | /             | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|               | Bottom side | 0.457         | /               | /               | /              | /             | /             | /            | /        | /        |
| LTE B7        | Front side  | 0.117         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.282         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|               | Left side   | /             | /               | /               | /              | /             | /             | /            | /        | /        |
|               | Right side  | 0.059         | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|               | Top side    | /             | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|               | Bottom side | 0.184         | /               | /               | /              | /             | /             | /            | /        | /        |
| LTE B41       | Front side  | 0.103         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.256         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|               | Left side   | /             | /               | /               | /              | /             | /             | /            | /        | /        |
|               | Right side  | 0.053         | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |
|               | Top side    | /             | 0.089           | /               | 0.070          | 0.654         | /             | 0.747        | 0.030    | /        |
|               | Bottom side | 0.163         | /               | /               | /              | /             | /             | /            | /        | /        |
| LTE B66       | Front side  | 0.274         | 0.104           | 0.039           | 0.099          | 0.256         | 0.111         | 0.315        | 0.027    | 0.023    |
|               | Back side   | 0.370         | 0.151           | 0.052           | 0.150          | 0.459         | 0.185         | 0.588        | 0.042    | 0.036    |
|               | Left side   | /             | /               | /               | /              | /             | /             | /            | /        | /        |
|               | Right side  | 0.069         | 0.063           | 0.050           | 0.089          | 0.135         | 0.301         | 0.352        | 0.022    | 0.031    |



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|            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            | Top side    | /     | 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     |       |       |       |       |       |
|            | Bottom side | 0.433 | /     | /     | /     | /     | /     | /     | /     | /     |       |       |       |       |       |
| N2         | Front side  | 0.226 | 0.104 | 0.039 | 0.099 | 0.256 | 0.111 | 0.315 | 0.027 | 0.023 |       |       |       |       |       |
|            | Back side   | 0.323 | 0.151 | 0.052 | 0.150 | 0.459 | 0.185 | 0.588 | 0.042 | 0.036 |       |       |       |       |       |
|            | Left side   | /     | /     | /     | /     | /     | /     | /     | /     | /     |       |       |       |       |       |
|            | Right side  | 0.097 | 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 |       |       |       |       |       |
|            | Top side    | /     | 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     |       |       |       |       |       |
|            | Bottom side | 0.345 | /     | /     | /     | /     | /     | /     | /     | /     |       |       |       |       |       |
| N66        | Front side  | 0.338 | 0.104 | 0.039 | 0.099 | 0.256 | 0.111 | 0.315 | 0.027 | 0.023 |       |       |       |       |       |
|            | Back side   | 0.407 | 0.151 | 0.052 | 0.150 | 0.459 | 0.185 | 0.588 | 0.042 | 0.036 |       |       |       |       |       |
|            | Left side   | /     | /     | /     | /     | /     | /     | /     | /     | /     |       |       |       |       |       |
|            | Right side  | 0.090 | 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 |       |       |       |       |       |
|            | Top side    | /     | 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     |       |       |       |       |       |
|            | Bottom side | 0.514 | /     | /     | /     | /     | /     | /     | /     | /     |       |       |       |       |       |
| Summed SAR |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1+2        | 1+3         | 1+4   | 1+5   | 1+6   | 1+7   | 1+8   | 1+9   | 1+2+9 | 1+3+8 | 1+5+8 | 1+6+8 | 1+7+8 | 1+5+9 | 1+6+9 | 1+7+9 |
| 0.427      | 0.362       | 0.422 | 0.579 | 0.434 | 0.638 | 0.350 | 0.346 | 0.450 | 0.389 | 0.606 | 0.461 | 0.665 | 0.602 | 0.457 | 0.661 |
| 0.584      | 0.485       | 0.583 | 0.892 | 0.618 | 1.021 | 0.475 | 0.469 | 0.620 | 0.527 | 0.934 | 0.660 | 1.063 | 0.928 | 0.654 | 1.057 |
| /          | /           | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.140      | 0.127       | 0.166 | 0.212 | 0.378 | 0.429 | 0.099 | 0.108 | 0.171 | 0.149 | 0.234 | 0.400 | 0.451 | 0.243 | 0.409 | 0.460 |
| 0.089      | /           | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| 0.286      | 0.286       | 0.286 | 0.286 | 0.286 | 0.286 | 0.286 | 0.286 | 0.286 | 0.286 | 0.286 | 0.286 | 0.286 | 0.286 | 0.286 | 0.286 |
| 0.405      | 0.340       | 0.400 | 0.557 | 0.412 | 0.616 | 0.328 | 0.324 | 0.428 | 0.367 | 0.584 | 0.439 | 0.643 | 0.580 | 0.435 | 0.639 |
| 0.521      | 0.422       | 0.520 | 0.829 | 0.555 | 0.958 | 0.412 | 0.406 | 0.557 | 0.464 | 0.871 | 0.597 | 1.000 | 0.865 | 0.591 | 0.994 |
| /          | /           | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.163      | 0.150       | 0.189 | 0.235 | 0.401 | 0.452 | 0.122 | 0.131 | 0.194 | 0.172 | 0.257 | 0.423 | 0.474 | 0.266 | 0.432 | 0.483 |
| 0.089      | /           | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| 0.398      | 0.398       | 0.398 | 0.398 | 0.398 | 0.398 | 0.398 | 0.398 | 0.398 | 0.398 | 0.398 | 0.398 | 0.398 | 0.398 | 0.398 | 0.398 |
| 0.357      | 0.292       | 0.352 | 0.509 | 0.364 | 0.568 | 0.280 | 0.276 | 0.380 | 0.319 | 0.536 | 0.391 | 0.595 | 0.532 | 0.387 | 0.591 |
| 0.503      | 0.404       | 0.502 | 0.811 | 0.537 | 0.940 | 0.394 | 0.388 | 0.539 | 0.446 | 0.853 | 0.579 | 0.982 | 0.847 | 0.573 | 0.976 |
| /          | /           | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.150      | 0.137       | 0.176 | 0.222 | 0.388 | 0.439 | 0.109 | 0.118 | 0.181 | 0.159 | 0.244 | 0.410 | 0.461 | 0.253 | 0.419 | 0.470 |
| 0.089      | /           | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| 0.432      | 0.432       | 0.432 | 0.432 | 0.432 | 0.432 | 0.432 | 0.432 | 0.432 | 0.432 | 0.432 | 0.432 | 0.432 | 0.432 | 0.432 | 0.432 |
| 0.337      | 0.272       | 0.332 | 0.489 | 0.344 | 0.548 | 0.260 | 0.256 | 0.360 | 0.299 | 0.516 | 0.371 | 0.575 | 0.512 | 0.367 | 0.571 |
| 0.504      | 0.405       | 0.503 | 0.812 | 0.538 | 0.941 | 0.395 | 0.389 | 0.540 | 0.447 | 0.854 | 0.580 | 0.983 | 0.848 | 0.574 | 0.977 |
| /          | /           | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.149      | 0.136       | 0.175 | 0.221 | 0.387 | 0.438 | 0.108 | 0.117 | 0.180 | 0.158 | 0.243 | 0.409 | 0.460 | 0.252 | 0.418 | 0.469 |
| 0.089      | /           | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| 0.425      | 0.425       | 0.425 | 0.425 | 0.425 | 0.425 | 0.425 | 0.425 | 0.425 | 0.425 | 0.425 | 0.425 | 0.425 | 0.425 | 0.425 | 0.425 |
| 0.383      | 0.318       | 0.378 | 0.535 | 0.390 | 0.594 | 0.306 | 0.302 | 0.406 | 0.345 | 0.562 | 0.417 | 0.621 | 0.558 | 0.413 | 0.617 |
| 0.528      | 0.429       | 0.527 | 0.836 | 0.562 | 0.965 | 0.419 | 0.413 | 0.564 | 0.471 | 0.878 | 0.604 | 1.007 | 0.872 | 0.598 | 1.001 |
| /          | /           | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.133      | 0.120       | 0.159 | 0.205 | 0.371 | 0.422 | 0.092 | 0.101 | 0.164 | 0.142 | 0.227 | 0.393 | 0.444 | 0.236 | 0.402 | 0.453 |
| 0.089      | /           | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| 0.457      | 0.457       | 0.457 | 0.457 | 0.457 | 0.457 | 0.457 | 0.457 | 0.457 | 0.457 | 0.457 | 0.457 | 0.457 | 0.457 | 0.457 | 0.457 |
| 0.221      | 0.156       | 0.216 | 0.373 | 0.228 | 0.432 | 0.144 | 0.140 | 0.244 | 0.183 | 0.400 | 0.255 | 0.459 | 0.396 | 0.251 | 0.455 |
| 0.433      | 0.334       | 0.432 | 0.741 | 0.467 | 0.870 | 0.324 | 0.318 | 0.469 | 0.376 | 0.783 | 0.509 | 0.912 | 0.777 | 0.503 | 0.906 |
| /          | /           | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.122      | 0.109       | 0.148 | 0.194 | 0.360 | 0.411 | 0.081 | 0.090 | 0.153 | 0.131 | 0.216 | 0.382 | 0.433 | 0.225 | 0.391 | 0.442 |
| 0.089      | /           | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| 0.184      | 0.184       | 0.184 | 0.184 | 0.184 | 0.184 | 0.184 | 0.184 | 0.184 | 0.184 | 0.184 | 0.184 | 0.184 | 0.184 | 0.184 | 0.184 |
| 0.207      | 0.142       | 0.202 | 0.359 | 0.214 | 0.418 | 0.130 | 0.126 | 0.230 | 0.169 | 0.386 | 0.241 | 0.445 | 0.382 | 0.237 | 0.441 |
| 0.407      | 0.308       | 0.406 | 0.715 | 0.441 | 0.844 | 0.298 | 0.292 | 0.443 | 0.350 | 0.757 | 0.483 | 0.886 | 0.751 | 0.477 | 0.880 |



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|       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.116 | 0.103 | 0.142 | 0.188 | 0.354 | 0.405 | 0.075 | 0.084 | 0.147 | 0.125 | 0.210 | 0.376 | 0.427 | 0.219 | 0.385 | 0.436 |
| 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| 0.163 | 0.163 | 0.163 | 0.163 | 0.163 | 0.163 | 0.163 | 0.163 | 0.163 | 0.163 | 0.163 | 0.163 | 0.163 | 0.163 | 0.163 | 0.163 |
| 0.378 | 0.313 | 0.373 | 0.530 | 0.385 | 0.589 | 0.301 | 0.297 | 0.401 | 0.340 | 0.557 | 0.412 | 0.616 | 0.553 | 0.408 | 0.612 |
| 0.521 | 0.422 | 0.520 | 0.829 | 0.555 | 0.958 | 0.412 | 0.406 | 0.557 | 0.464 | 0.871 | 0.597 | 1.000 | 0.865 | 0.591 | 0.994 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.132 | 0.119 | 0.158 | 0.204 | 0.370 | 0.421 | 0.091 | 0.100 | 0.163 | 0.141 | 0.226 | 0.392 | 0.443 | 0.235 | 0.401 | 0.452 |
| 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| 0.433 | 0.433 | 0.433 | 0.433 | 0.433 | 0.433 | 0.433 | 0.433 | 0.433 | 0.433 | 0.433 | 0.433 | 0.433 | 0.433 | 0.433 | 0.433 |
| 0.330 | 0.265 | 0.325 | 0.482 | 0.337 | 0.541 | 0.253 | 0.249 | 0.353 | 0.292 | 0.509 | 0.364 | 0.568 | 0.505 | 0.360 | 0.564 |
| 0.474 | 0.375 | 0.473 | 0.782 | 0.508 | 0.911 | 0.365 | 0.359 | 0.510 | 0.417 | 0.824 | 0.550 | 0.953 | 0.818 | 0.544 | 0.947 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.160 | 0.147 | 0.186 | 0.232 | 0.398 | 0.449 | 0.119 | 0.128 | 0.191 | 0.169 | 0.254 | 0.420 | 0.471 | 0.263 | 0.429 | 0.480 |
| 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| 0.345 | 0.345 | 0.345 | 0.345 | 0.345 | 0.345 | 0.345 | 0.345 | 0.345 | 0.345 | 0.345 | 0.345 | 0.345 | 0.345 | 0.345 | 0.345 |
| 0.442 | 0.377 | 0.437 | 0.594 | 0.449 | 0.653 | 0.365 | 0.361 | 0.465 | 0.404 | 0.621 | 0.476 | 0.680 | 0.617 | 0.472 | 0.676 |
| 0.558 | 0.459 | 0.557 | 0.866 | 0.592 | 0.995 | 0.449 | 0.443 | 0.594 | 0.501 | 0.908 | 0.634 | 1.037 | 0.902 | 0.628 | 1.031 |
| /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     |
| 0.153 | 0.140 | 0.179 | 0.225 | 0.391 | 0.442 | 0.112 | 0.121 | 0.184 | 0.162 | 0.247 | 0.413 | 0.464 | 0.256 | 0.422 | 0.473 |
| 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| 0.514 | 0.514 | 0.514 | 0.514 | 0.514 | 0.514 | 0.514 | 0.514 | 0.514 | 0.514 | 0.514 | 0.514 | 0.514 | 0.514 | 0.514 | 0.514 |



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| Test position |             |       | SARmax (W/kg) |       |                 |       |                 |       |                |       |               |       |               |       |              |  |          |  |          |  |
|---------------|-------------|-------|---------------|-------|-----------------|-------|-----------------|-------|----------------|-------|---------------|-------|---------------|-------|--------------|--|----------|--|----------|--|
|               |             |       | Main Ant41    |       | WiFi 2.4G Ant22 |       | WiFi 2.4G Ant24 |       | WiFi 2.4G MIMO |       | WiFi 5G Ant22 |       | WiFi 5G Ant24 |       | WiFi 5G MIMO |  | BT Ant22 |  | BT Ant24 |  |
|               |             |       | 1             |       | 2               |       | 3               |       | 4              |       | 5             |       | 6             |       | 7            |  | 8        |  | 9        |  |
| GSM850        | Front side  |       | 0.264         |       | 0.104           |       | 0.039           |       | 0.099          |       | 0.256         |       | 0.111         |       | 0.315        |  | 0.027    |  | 0.023    |  |
|               | Back side   |       | 0.386         |       | 0.151           |       | 0.052           |       | 0.150          |       | 0.459         |       | 0.185         |       | 0.588        |  | 0.042    |  | 0.036    |  |
|               | Left side   |       | 0.166         |       | /               |       | /               |       | /              |       | /             |       | /             |       | /            |  | /        |  | /        |  |
|               | Right side  |       | /             |       | 0.063           |       | 0.050           |       | 0.089          |       | 0.135         |       | 0.301         |       | 0.352        |  | 0.022    |  | 0.031    |  |
|               | Top side    |       | /             |       | 0.089           |       | /               |       | 0.070          |       | 0.654         |       | /             |       | 0.747        |  | 0.030    |  | /        |  |
|               | Bottom side |       | 0.186         |       | /               |       | /               |       | /              |       | /             |       | /             |       | /            |  | /        |  | /        |  |
| WCDMA B5      | Front side  |       | 0.186         |       | 0.104           |       | 0.039           |       | 0.099          |       | 0.256         |       | 0.111         |       | 0.315        |  | 0.027    |  | 0.023    |  |
|               | Back side   |       | 0.500         |       | 0.151           |       | 0.052           |       | 0.150          |       | 0.459         |       | 0.185         |       | 0.588        |  | 0.042    |  | 0.036    |  |
|               | Left side   |       | 0.207         |       | /               |       | /               |       | /              |       | /             |       | /             |       | /            |  | /        |  | /        |  |
|               | Right side  |       | /             |       | 0.063           |       | 0.050           |       | 0.089          |       | 0.135         |       | 0.301         |       | 0.352        |  | 0.022    |  | 0.031    |  |
|               | Top side    |       | /             |       | 0.089           |       | /               |       | 0.070          |       | 0.654         |       | /             |       | 0.747        |  | 0.030    |  | /        |  |
|               | Bottom side |       | 0.264         |       | /               |       | /               |       | /              |       | /             |       | /             |       | /            |  | /        |  | /        |  |
| CDMA BC0      | Front side  |       | 0.242         |       | 0.104           |       | 0.039           |       | 0.099          |       | 0.256         |       | 0.111         |       | 0.315        |  | 0.027    |  | 0.023    |  |
|               | Back side   |       | 0.412         |       | 0.151           |       | 0.052           |       | 0.150          |       | 0.459         |       | 0.185         |       | 0.588        |  | 0.042    |  | 0.036    |  |
|               | Left side   |       | 0.128         |       | /               |       | /               |       | /              |       | /             |       | /             |       | /            |  | /        |  | /        |  |
|               | Right side  |       | /             |       | 0.063           |       | 0.050           |       | 0.089          |       | 0.135         |       | 0.301         |       | 0.352        |  | 0.022    |  | 0.031    |  |
|               | Top side    |       | /             |       | 0.089           |       | /               |       | 0.070          |       | 0.654         |       | /             |       | 0.747        |  | 0.030    |  | /        |  |
|               | Bottom side |       | 0.220         |       | /               |       | /               |       | /              |       | /             |       | /             |       | /            |  | /        |  | /        |  |
| LTE B12       | Front side  |       | 0.169         |       | 0.104           |       | 0.039           |       | 0.099          |       | 0.256         |       | 0.111         |       | 0.315        |  | 0.027    |  | 0.023    |  |
|               | Back side   |       | 0.216         |       | 0.151           |       | 0.052           |       | 0.150          |       | 0.459         |       | 0.185         |       | 0.588        |  | 0.042    |  | 0.036    |  |
|               | Left side   |       | 0.307         |       | /               |       | /               |       | /              |       | /             |       | /             |       | /            |  | /        |  | /        |  |
|               | Right side  |       | /             |       | 0.063           |       | 0.050           |       | 0.089          |       | 0.135         |       | 0.301         |       | 0.352        |  | 0.022    |  | 0.031    |  |
|               | Top side    |       | /             |       | 0.089           |       | /               |       | 0.070          |       | 0.654         |       | /             |       | 0.747        |  | 0.030    |  | /        |  |
|               | Bottom side |       | 0.104         |       | /               |       | /               |       | /              |       | /             |       | /             |       | /            |  | /        |  | /        |  |
| LTE B13       | Front side  |       | 0.150         |       | 0.104           |       | 0.039           |       | 0.099          |       | 0.256         |       | 0.111         |       | 0.315        |  | 0.027    |  | 0.023    |  |
|               | Back side   |       | 0.255         |       | 0.151           |       | 0.052           |       | 0.150          |       | 0.459         |       | 0.185         |       | 0.588        |  | 0.042    |  | 0.036    |  |
|               | Left side   |       | 0.149         |       | /               |       | /               |       | /              |       | /             |       | /             |       | /            |  | /        |  | /        |  |
|               | Right side  |       | /             |       | 0.063           |       | 0.050           |       | 0.089          |       | 0.135         |       | 0.301         |       | 0.352        |  | 0.022    |  | 0.031    |  |
|               | Top side    |       | /             |       | 0.089           |       | /               |       | 0.070          |       | 0.654         |       | /             |       | 0.747        |  | 0.030    |  | /        |  |
|               | Bottom side |       | 0.127         |       | /               |       | /               |       | /              |       | /             |       | /             |       | /            |  | /        |  | /        |  |
| LTE B26       | Front side  |       | 0.256         |       | 0.104           |       | 0.039           |       | 0.099          |       | 0.256         |       | 0.111         |       | 0.315        |  | 0.027    |  | 0.023    |  |
|               | Back side   |       | 0.435         |       | 0.151           |       | 0.052           |       | 0.150          |       | 0.459         |       | 0.185         |       | 0.588        |  | 0.042    |  | 0.036    |  |
|               | Left side   |       | 0.139         |       | /               |       | /               |       | /              |       | /             |       | /             |       | /            |  | /        |  | /        |  |
|               | Right side  |       | /             |       | 0.063           |       | 0.050           |       | 0.089          |       | 0.135         |       | 0.301         |       | 0.352        |  | 0.022    |  | 0.031    |  |
|               | Top side    |       | /             |       | 0.089           |       | /               |       | 0.070          |       | 0.654         |       | /             |       | 0.747        |  | 0.030    |  | /        |  |
|               | Bottom side |       | 0.219         |       | /               |       | /               |       | /              |       | /             |       | /             |       | /            |  | /        |  | /        |  |
| N26           | Front side  |       | 0.245         |       | 0.104           |       | 0.039           |       | 0.099          |       | 0.256         |       | 0.111         |       | 0.315        |  | 0.027    |  | 0.023    |  |
|               | Back side   |       | 0.388         |       | 0.151           |       | 0.052           |       | 0.150          |       | 0.459         |       | 0.185         |       | 0.588        |  | 0.042    |  | 0.036    |  |
|               | Left side   |       | 0.159         |       | /               |       | /               |       | /              |       | /             |       | /             |       | /            |  | /        |  | /        |  |
|               | Right side  |       | /             |       | 0.063           |       | 0.050           |       | 0.089          |       | 0.135         |       | 0.301         |       | 0.352        |  | 0.022    |  | 0.031    |  |
|               | Top side    |       | /             |       | 0.089           |       | /               |       | 0.070          |       | 0.654         |       | /             |       | 0.747        |  | 0.030    |  | /        |  |
|               | Bottom side |       | 0.192         |       | /               |       | /               |       | /              |       | /             |       | /             |       | /            |  | /        |  | /        |  |
| Summed SAR    |             |       |               |       |                 |       |                 |       |                |       |               |       |               |       |              |  |          |  |          |  |
| 1+2           | 1+3         | 1+4   | 1+5           | 1+6   | 1+7             | 1+8   | 1+9             | 1+2+9 | 1+3+8          | 1+5+8 | 1+6+8         | 1+7+8 | 1+5+9         | 1+6+9 | 1+7+9        |  |          |  |          |  |
| 0.368         | 0.303       | 0.363 | 0.520         | 0.375 | 0.579           | 0.291 | 0.287           | 0.391 | 0.330          | 0.547 | 0.402         | 0.606 | 0.543         | 0.398 | 0.602        |  |          |  |          |  |
| 0.537         | 0.438       | 0.536 | 0.845         | 0.571 | 0.974           | 0.428 | 0.422           | 0.573 | 0.480          | 0.887 | 0.613         | 1.016 | 0.881         | 0.607 | 1.010        |  |          |  |          |  |
| 0.166         | 0.166       | 0.166 | 0.166         | 0.166 | 0.166           | 0.166 | 0.166           | 0.166 | 0.166          | 0.166 | 0.166         | 0.166 | 0.166         | 0.166 | 0.166        |  |          |  |          |  |
| 0.063         | 0.050       | 0.089 | 0.135         | 0.301 | 0.352           | 0.022 | 0.031           | 0.094 | 0.072          | 0.157 | 0.323         | 0.374 | 0.166         | 0.332 | 0.383        |  |          |  |          |  |
| 0.089         | /           | 0.070 | 0.654         | /     | 0.747           | 0.030 | /               | 0.089 | 0.030          | 0.684 | 0.030         | 0.777 | 0.654         | /     | 0.747        |  |          |  |          |  |
| 0.186         | 0.186       | 0.186 | 0.186         | 0.186 | 0.186           | 0.186 | 0.186           | 0.186 | 0.186          | 0.186 | 0.186         | 0.186 | 0.186         | 0.186 | 0.186        |  |          |  |          |  |
| 0.290         | 0.225       | 0.285 | 0.442         | 0.297 | 0.501           | 0.213 | 0.209           | 0.313 | 0.252          | 0.469 | 0.324         | 0.528 | 0.465         | 0.320 | 0.524        |  |          |  |          |  |



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|       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.651 | 0.552 | 0.650 | 0.959 | 0.685 | 1.088 | 0.542 | 0.536 | 0.687 | 0.594 | 1.001 | 0.727 | 1.130 | 0.995 | 0.721 | 1.124 |
| 0.207 | 0.207 | 0.207 | 0.207 | 0.207 | 0.207 | 0.207 | 0.207 | 0.207 | 0.207 | 0.207 | 0.207 | 0.207 | 0.207 | 0.207 | 0.207 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| 0.264 | 0.264 | 0.264 | 0.264 | 0.264 | 0.264 | 0.264 | 0.264 | 0.264 | 0.264 | 0.264 | 0.264 | 0.264 | 0.264 | 0.264 | 0.264 |
| 0.346 | 0.281 | 0.341 | 0.498 | 0.353 | 0.557 | 0.269 | 0.265 | 0.369 | 0.308 | 0.525 | 0.380 | 0.584 | 0.521 | 0.376 | 0.580 |
| 0.563 | 0.464 | 0.562 | 0.871 | 0.597 | 1.000 | 0.454 | 0.448 | 0.599 | 0.506 | 0.913 | 0.639 | 1.042 | 0.907 | 0.633 | 1.036 |
| 0.128 | 0.128 | 0.128 | 0.128 | 0.128 | 0.128 | 0.128 | 0.128 | 0.128 | 0.128 | 0.128 | 0.128 | 0.128 | 0.128 | 0.128 | 0.128 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| 0.220 | 0.220 | 0.220 | 0.220 | 0.220 | 0.220 | 0.220 | 0.220 | 0.220 | 0.220 | 0.220 | 0.220 | 0.220 | 0.220 | 0.220 | 0.220 |
| 0.273 | 0.208 | 0.268 | 0.425 | 0.280 | 0.484 | 0.196 | 0.192 | 0.296 | 0.235 | 0.452 | 0.307 | 0.511 | 0.448 | 0.303 | 0.507 |
| 0.367 | 0.268 | 0.366 | 0.675 | 0.401 | 0.804 | 0.258 | 0.252 | 0.403 | 0.310 | 0.717 | 0.443 | 0.846 | 0.711 | 0.437 | 0.840 |
| 0.307 | 0.307 | 0.307 | 0.307 | 0.307 | 0.307 | 0.307 | 0.307 | 0.307 | 0.307 | 0.307 | 0.307 | 0.307 | 0.307 | 0.307 | 0.307 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| 0.104 | 0.104 | 0.104 | 0.104 | 0.104 | 0.104 | 0.104 | 0.104 | 0.104 | 0.104 | 0.104 | 0.104 | 0.104 | 0.104 | 0.104 | 0.104 |
| 0.254 | 0.189 | 0.249 | 0.406 | 0.261 | 0.465 | 0.177 | 0.173 | 0.277 | 0.216 | 0.433 | 0.288 | 0.492 | 0.429 | 0.284 | 0.488 |
| 0.406 | 0.307 | 0.405 | 0.714 | 0.440 | 0.843 | 0.297 | 0.291 | 0.442 | 0.349 | 0.756 | 0.482 | 0.885 | 0.750 | 0.476 | 0.879 |
| 0.149 | 0.149 | 0.149 | 0.149 | 0.149 | 0.149 | 0.149 | 0.149 | 0.149 | 0.149 | 0.149 | 0.149 | 0.149 | 0.149 | 0.149 | 0.149 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| 0.127 | 0.127 | 0.127 | 0.127 | 0.127 | 0.127 | 0.127 | 0.127 | 0.127 | 0.127 | 0.127 | 0.127 | 0.127 | 0.127 | 0.127 | 0.127 |
| 0.360 | 0.295 | 0.355 | 0.512 | 0.367 | 0.571 | 0.283 | 0.279 | 0.383 | 0.322 | 0.539 | 0.394 | 0.598 | 0.535 | 0.390 | 0.594 |
| 0.586 | 0.487 | 0.585 | 0.894 | 0.620 | 1.023 | 0.477 | 0.471 | 0.622 | 0.529 | 0.936 | 0.662 | 1.065 | 0.930 | 0.656 | 1.059 |
| 0.139 | 0.139 | 0.139 | 0.139 | 0.139 | 0.139 | 0.139 | 0.139 | 0.139 | 0.139 | 0.139 | 0.139 | 0.139 | 0.139 | 0.139 | 0.139 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| 0.219 | 0.219 | 0.219 | 0.219 | 0.219 | 0.219 | 0.219 | 0.219 | 0.219 | 0.219 | 0.219 | 0.219 | 0.219 | 0.219 | 0.219 | 0.219 |
| 0.349 | 0.284 | 0.344 | 0.501 | 0.356 | 0.560 | 0.272 | 0.268 | 0.372 | 0.311 | 0.528 | 0.383 | 0.587 | 0.524 | 0.379 | 0.583 |
| 0.539 | 0.440 | 0.538 | 0.847 | 0.573 | 0.976 | 0.430 | 0.424 | 0.575 | 0.482 | 0.889 | 0.615 | 1.018 | 0.883 | 0.609 | 1.012 |
| 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 | 0.159 |
| 0.063 | 0.050 | 0.089 | 0.135 | 0.301 | 0.352 | 0.022 | 0.031 | 0.094 | 0.072 | 0.157 | 0.323 | 0.374 | 0.166 | 0.332 | 0.383 |
| 0.089 | /     | 0.070 | 0.654 | /     | 0.747 | 0.030 | /     | 0.089 | 0.030 | 0.684 | 0.030 | 0.777 | 0.654 | /     | 0.747 |
| 0.192 | 0.192 | 0.192 | 0.192 | 0.192 | 0.192 | 0.192 | 0.192 | 0.192 | 0.192 | 0.192 | 0.192 | 0.192 | 0.192 | 0.192 | 0.192 |



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## Product specific 10g SAR:

| Test position      |             | SARmax (W/kg) |                 |                 |                |               |               |              |          |          |          |          |          |          |          |
|--------------------|-------------|---------------|-----------------|-----------------|----------------|---------------|---------------|--------------|----------|----------|----------|----------|----------|----------|----------|
|                    |             | Main Ant13    | WiFi 2.4G Ant22 | WiFi 2.4G Ant24 | WiFi 2.4G MIMO | WiFi 5G Ant22 | WiFi 5G Ant24 | WiFi 5G MIMO | BT Ant22 | BT Ant24 | NFC      |          |          |          |          |
|                    |             | 1             | 2               | 3               | 4              | 5             | 6             | 7            | 8        | 9        | 10       |          |          |          |          |
| N77<br>(3450-3550) | Front side  | /             | /               | /               | /              | 0.573         | 0.139         | 0.532        | /        | /        | 0.001    |          |          |          |          |
|                    | Back side   | /             | /               | /               | /              | 0.510         | 0.163         | 0.482        | /        | /        | 0.024    |          |          |          |          |
|                    | Left side   | 2.526         | /               | /               | /              | /             | /             | /            | /        | /        | 0.001    |          |          |          |          |
|                    | Right side  | /             | /               | /               | /              | 0.240         | 0.514         | 0.607        | /        | /        | 0.001    |          |          |          |          |
|                    | Top side    | /             | /               | /               | /              | 0.923         | /             | 0.895        | /        | /        | 0.001    |          |          |          |          |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        | 0.001    |          |          |          |          |
| N77<br>(3700-3980) | Front side  | /             | /               | /               | /              | 0.573         | 0.139         | 0.532        | /        | /        | 0.001    |          |          |          |          |
|                    | Back side   | /             | /               | /               | /              | 0.510         | 0.163         | 0.482        | /        | /        | 0.024    |          |          |          |          |
|                    | Left side   | 1.597         | /               | /               | /              | /             | /             | /            | /        | /        | 0.001    |          |          |          |          |
|                    | Right side  | /             | /               | /               | /              | 0.240         | 0.514         | 0.607        | /        | /        | 0.001    |          |          |          |          |
|                    | Top side    | /             | /               | /               | /              | 0.923         | /             | 0.895        | /        | /        | 0.001    |          |          |          |          |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        | 0.001    |          |          |          |          |
| N78<br>(3450-3550) | Front side  | /             | /               | /               | /              | 0.573         | 0.139         | 0.532        | /        | /        | 0.001    |          |          |          |          |
|                    | Back side   | 1.625         | /               | /               | /              | 0.510         | 0.163         | 0.482        | /        | /        | 0.024    |          |          |          |          |
|                    | Left side   | 1.463         | /               | /               | /              | /             | /             | /            | /        | /        | 0.001    |          |          |          |          |
|                    | Right side  | /             | /               | /               | /              | 0.240         | 0.514         | 0.607        | /        | /        | 0.001    |          |          |          |          |
|                    | Top side    | 2.858         | /               | /               | /              | 0.923         | /             | 0.895        | /        | /        | 0.001    |          |          |          |          |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        | 0.001    |          |          |          |          |
| N78<br>(3700-3800) | Front side  | /             | /               | /               | /              | 0.573         | 0.139         | 0.532        | /        | /        | 0.001    |          |          |          |          |
|                    | Back side   | /             | /               | /               | /              | 0.510         | 0.163         | 0.482        | /        | /        | 0.024    |          |          |          |          |
|                    | Left side   | 1.451         | /               | /               | /              | /             | /             | /            | /        | /        | 0.001    |          |          |          |          |
|                    | Right side  | /             | /               | /               | /              | 0.240         | 0.514         | 0.607        | /        | /        | 0.001    |          |          |          |          |
|                    | Top side    | /             | /               | /               | /              | 0.923         | /             | 0.895        | /        | /        | 0.001    |          |          |          |          |
|                    | Bottom side | /             | /               | /               | /              | /             | /             | /            | /        | /        | 0.001    |          |          |          |          |
| Summed SAR         |             |               |                 |                 |                |               |               |              |          |          |          |          |          |          |          |
| 1+2+10             | 1+3+10      | 1+4+10        | 1+5+10          | 1+6+10          | 1+7+10         | 1+8+10        | 1+9+10        | 1+2+9+10     | 1+3+8+10 | 1+5+8+10 | 1+6+8+10 | 1+7+8+10 | 1+5+9+10 | 1+6+9+10 | 1+7+9+10 |
| 0.001              | 0.001       | 0.001         | 0.574           | 0.140           | 0.533          | 0.001         | 0.001         | 0.001        | 0.001    | 0.574    | 0.140    | 0.533    | 0.574    | 0.140    | 0.533    |
| 0.024              | 0.024       | 0.024         | 0.534           | 0.187           | 0.506          | 0.024         | 0.024         | 0.024        | 0.024    | 0.534    | 0.187    | 0.506    | 0.534    | 0.187    | 0.506    |
| 2.527              | 2.527       | 2.527         | 2.527           | 2.527           | 2.527          | 2.527         | 2.527         | 2.527        | 2.527    | 2.527    | 2.527    | 2.527    | 2.527    | 2.527    | 2.527    |
| 0.001              | 0.001       | 0.001         | 0.241           | 0.515           | 0.608          | 0.001         | 0.001         | 0.001        | 0.001    | 0.241    | 0.515    | 0.608    | 0.241    | 0.515    | 0.608    |
| 0.001              | 0.001       | 0.001         | 0.924           | 0.001           | 0.896          | 0.001         | 0.001         | 0.001        | 0.001    | 0.924    | 0.001    | 0.896    | 0.924    | 0.001    | 0.896    |
| 0.001              | 0.001       | 0.001         | 0.001           | 0.001           | 0.001          | 0.001         | 0.001         | 0.001        | 0.001    | 0.001    | 0.001    | 0.001    | 0.001    | 0.001    | 0.001    |
| 0.001              | 0.001       | 0.001         | 0.574           | 0.140           | 0.533          | 0.001         | 0.001         | 0.001        | 0.001    | 0.574    | 0.140    | 0.533    | 0.574    | 0.140    | 0.533    |
| 0.024              | 0.024       | 0.024         | 0.534           | 0.187           | 0.506          | 0.024         | 0.024         | 0.024        | 0.024    | 0.534    | 0.187    | 0.506    | 0.534    | 0.187    | 0.506    |
| 1.598              | 1.598       | 1.598         | 1.598           | 1.598           | 1.598          | 1.598         | 1.598         | 1.598        | 1.598    | 1.598    | 1.598    | 1.598    | 1.598    | 1.598    | 1.598    |
| 0.001              | 0.001       | 0.001         | 0.241           | 0.515           | 0.608          | 0.001         | 0.001         | 0.001        | 0.001    | 0.241    | 0.515    | 0.608    | 0.241    | 0.515    | 0.608    |
| 0.001              | 0.001       | 0.001         | 0.924           | 0.001           | 0.896          | 0.001         | 0.001         | 0.001        | 0.001    | 0.924    | 0.001    | 0.896    | 0.924    | 0.001    | 0.896    |
| 0.001              | 0.001       | 0.001         | 0.001           | 0.001           | 0.001          | 0.001         | 0.001         | 0.001        | 0.001    | 0.001    | 0.001    | 0.001    | 0.001    | 0.001    | 0.001    |
| 0.001              | 0.001       | 0.001         | 0.574           | 0.140           | 0.533          | 0.001         | 0.001         | 0.001        | 0.001    | 0.574    | 0.140    | 0.533    | 0.574    | 0.140    | 0.533    |
| 1.649              | 1.649       | 1.649         | 2.159           | 1.812           | 2.131          | 1.649         | 1.649         | 1.649        | 1.649    | 2.159    | 1.812    | 2.131    | 2.159    | 1.812    | 2.131    |
| 1.464              | 1.464       | 1.464         | 1.464           | 1.464           | 1.464          | 1.464         | 1.464         | 1.464        | 1.464    | 1.464    | 1.464    | 1.464    | 1.464    | 1.464    | 1.464    |
| 0.001              | 0.001       | 0.001         | 0.241           | 0.515           | 0.608          | 0.001         | 0.001         | 0.001        | 0.001    | 0.241    | 0.515    | 0.608    | 0.241    | 0.515    | 0.608    |
| 2.859              | 2.859       | 2.859         | 3.782           | 2.859           | 3.754          | 2.859         | 2.859         | 2.859        | 2.859    | 3.782    | 2.859    | 3.754    | 3.782    | 2.859    | 3.754    |
| 0.001              | 0.001       | 0.001         | 0.001           | 0.001           | 0.001          | 0.001         | 0.001         | 0.001        | 0.001    | 0.001    | 0.001    | 0.001    | 0.001    | 0.001    | 0.001    |
| 0.001              | 0.001       | 0.001         | 0.574           | 0.140           | 0.533          | 0.001         | 0.001         | 0.001        | 0.001    | 0.574    | 0.140    | 0.533    | 0.574    | 0.140    | 0.533    |
| 0.024              | 0.024       | 0.024         | 0.534           | 0.187           | 0.506          | 0.024         | 0.024         | 0.024        | 0.024    | 0.534    | 0.187    | 0.506    | 0.534    | 0.187    | 0.506    |
| 1.452              | 1.452       | 1.452         | 1.452           | 1.452           | 1.452          | 1.452         | 1.452         | 1.452        | 1.452    | 1.452    | 1.452    | 1.452    | 1.452    | 1.452    | 1.452    |
| 0.001              | 0.001       | 0.001         | 0.241           | 0.515           | 0.608          | 0.001         | 0.001         | 0.001        | 0.001    | 0.241    | 0.515    | 0.608    | 0.241    | 0.515    | 0.608    |
| 0.001              | 0.001       | 0.001         | 0.924           | 0.001           | 0.896          | 0.001         | 0.001         | 0.001        | 0.001    | 0.924    | 0.001    | 0.896    | 0.924    | 0.001    | 0.896    |
| 0.001              | 0.001       | 0.001         | 0.001           | 0.001           | 0.001          | 0.001         | 0.001         | 0.001        | 0.001    | 0.001    | 0.001    | 0.001    | 0.001    | 0.001    | 0.001    |



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## 9 Equipment list

| Test Platform                       |                                                  | SPEAG DASY Professional                       |               |               |                  |                         |
|-------------------------------------|--------------------------------------------------|-----------------------------------------------|---------------|---------------|------------------|-------------------------|
| Description                         |                                                  | SAR Test System (Frequency range 300MHz-6GHz) |               |               |                  |                         |
| Software Reference                  |                                                  | DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)  |               |               |                  |                         |
| Hardware Reference                  |                                                  |                                               |               |               |                  |                         |
| Equipment                           |                                                  | Manufacturer                                  | Model         | Serial Number | Calibration Date | Due date of calibration |
| <input checked="" type="checkbox"/> | Twin Phantom                                     | SPEAG                                         | SAM 2         | 1640          | NCR              | NCR                     |
| <input checked="" type="checkbox"/> | Twin Phantom                                     | SPEAG                                         | SAM 3         | 2031          | NCR              | NCR                     |
| <input checked="" type="checkbox"/> | Twin Phantom                                     | SPEAG                                         | SAM 4         | 1913          | NCR              | NCR                     |
| <input checked="" type="checkbox"/> | Twin Phantom                                     | SPEAG                                         | SAM 6         | 1481          | NCR              | NCR                     |
| <input checked="" type="checkbox"/> | DAE                                              | SPEAG                                         | DAE4          | 1267          | 2022/12/10       | 2023/12/09              |
| <input checked="" type="checkbox"/> | DAE                                              | SPEAG                                         | DAE4          | 702           | 2022/11/09       | 2023/11/08              |
| <input checked="" type="checkbox"/> | DAE                                              | SPEAG                                         | DAE4          | 896           | 2023/03/17       | 2024/03/16              |
| <input checked="" type="checkbox"/> | DAE                                              | SPEAG                                         | DAE4          | 1663          | 2023/03/27       | 2024/03/26              |
| <input checked="" type="checkbox"/> | E-Field Probe                                    | SPEAG                                         | EX3DV4        | 3789          | 2022/09/30       | 2023/09/29              |
| <input checked="" type="checkbox"/> | E-Field Probe                                    | SPEAG                                         | ES3DV3        | 3137          | 2022/09/16       | 2023/09/15              |
| <input checked="" type="checkbox"/> | E-Field Probe                                    | SPEAG                                         | EX3DV4        | 7620          | 2022/11/20       | 2023/11/19              |
| <input checked="" type="checkbox"/> | E-Field Probe                                    | SPEAG                                         | EX3DV4        | 3793          | 2022/09/30       | 2023/09/29              |
| <input checked="" type="checkbox"/> | E-Field Probe                                    | SPEAG                                         | EX3DV4        | 7735          | 2022/08/09       | 2023/08/08              |
| <input checked="" type="checkbox"/> | Validation Kits                                  | SPEAG                                         | D750V3        | 1160          | 2022/06/06       | 2025/06/05              |
| <input checked="" type="checkbox"/> | Validation Kits                                  | SPEAG                                         | D835V2        | 4d105         | 2022/11/02       | 2025/11/01              |
| <input checked="" type="checkbox"/> | Validation Kits                                  | SPEAG                                         | D1750V2       | 1149          | 2022/06/17       | 2025/06/16              |
| <input checked="" type="checkbox"/> | Validation Kits                                  | SPEAG                                         | D1900V2       | 5d028         | 2022/11/02       | 2025/11/01              |
| <input checked="" type="checkbox"/> | Validation Kits                                  | SPEAG                                         | D2450V2       | 733           | 2022/11/02       | 2025/11/01              |
| <input checked="" type="checkbox"/> | Validation Kits                                  | SPEAG                                         | D2600V2       | 1125          | 2022/06/14       | 2025/06/13              |
| <input checked="" type="checkbox"/> | Validation Kits                                  | SPEAG                                         | D3500V2       | 1082          | 2022/09/19       | 2025/09/18              |
| <input checked="" type="checkbox"/> | Validation Kits                                  | SPEAG                                         | D3700V2       | 1046          | 2022/09/15       | 2025/09/14              |
| <input checked="" type="checkbox"/> | Validation Kits                                  | SPEAG                                         | D3900V2       | 1026          | 2022/09/16       | 2025/09/15              |
| <input checked="" type="checkbox"/> | Validation Kits                                  | SPEAG                                         | D5GHzV2       | 1165          | 2022/11/01       | 2025/10/31              |
| <input checked="" type="checkbox"/> | Dielectric parameter probes                      | SPEAG                                         | DAKS-3.5      | 0005          | 2022/07/05       | 2023/07/04              |
| <input checked="" type="checkbox"/> | Vector Network Analyzer and Vector Reflectometer | SPEAG                                         | DAKS_VNA R140 | 0140913       | 2022/08/29       | 2023/08/28              |
| <input checked="" type="checkbox"/> | Radio Communication Analyzer                     | Anritsu                                       | MT8820C       | 6201616273    | 2023/02/16       | 2024/02/15              |
| <input checked="" type="checkbox"/> | Radio Communication Analyzer                     | Anritsu                                       | MT8820C       | 6201381734    | 2023/05/25       | 2024/05/24              |
| <input checked="" type="checkbox"/> | Radio Communication Analyzer                     | Anritsu                                       | MT8820C       | 6201074424    | 2022/11/18       | 2023/11/17              |
| <input checked="" type="checkbox"/> | RF Bi-Directional Coupler                        | Agilent                                       | 86205-60001   | MY31400031    | NCR              | NCR                     |
| <input checked="" type="checkbox"/> | Signal Generator                                 | Agilent                                       | N5171B        | MY53050736    | 2023/02/16       | 2024/02/15              |
| <input checked="" type="checkbox"/> | Preamplifier                                     | Mini-Circuits                                 | ZHL-42W       | 15542         | NCR              | NCR                     |
| <input checked="" type="checkbox"/> | Preamplifier                                     | Compliance                                    | AMP28-3W      | 073501433     | NCR              | NCR                     |



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|                                     |                                          | Directions<br>Systems Inc. |         |                  |            |            |
|-------------------------------------|------------------------------------------|----------------------------|---------|------------------|------------|------------|
| <input checked="" type="checkbox"/> | Power Meter                              | Agilent                    | E4416A  | GB41292095       | 2023/02/16 | 2024/02/15 |
| <input checked="" type="checkbox"/> | Power Sensor                             | Agilent                    | 8481H   | MY41091234       | 2023/02/16 | 2024/02/15 |
| <input checked="" type="checkbox"/> | Power Sensor                             | R&S                        | NRP-Z92 | 100025           | 2023/02/16 | 2024/02/15 |
| <input checked="" type="checkbox"/> | Attenuator                               | SHX                        | TS2-3dB | 30704            | NCR        | NCR        |
| <input checked="" type="checkbox"/> | Speed reading<br>thermometer             | MingGao                    | T809    | NA               | 2022/06/07 | 2023/06/06 |
| <input checked="" type="checkbox"/> | Humidity and<br>Temperature<br>Indicator | KIMTOKA                    | KIMTOKA | NA               | 2023/02/17 | 2024/02/16 |
| <input checked="" type="checkbox"/> | Humidity and<br>Temperature<br>Indicator | CHIGAO                     | HTC-1   | ZGL2020120550471 | 2022/07/06 | 2023/07/05 |
| <input checked="" type="checkbox"/> | Humidity and<br>Temperature<br>Indicator | CHIGAO                     | HTC-1   | ZGL2020120550472 | 2022/07/06 | 2023/07/05 |

Note: All the equipments are within the valid period when the tests are performed.



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**10 Calibration certificate**

Please see the Appendix C

**11 Photographs**

Please see the Appendix D

**Appendix A: Detailed System Check Results****Appendix B: Detailed Test Results****Appendix C: Calibration certificate****Appendix D: Photographs****Appendix E: Conducted RF Output Power****Appendix F: Antenna Locations**

---END---



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