# SAR TEST REPORT

The following samples were submitted and identified on behalf of the client as:

| | |
|---|---|
| **Equipment Under Test** | Notebook Computer |
| **Brand Name** | HP |
| **Model No.** | HSN-I20C |
| **Company Name** | HP Inc. |
| **Company Address** | 3390 East Harmony Road, Fort Collins Colorado, 80528 United States |
| **Standards** | IEEE/ANSI C95.1-1992, IEEE 1528-2013, KDB616217D04v01r02,KDB865664D01v01r04, KDB865664D02v01r02,KDB941225D01v03r01, KDB941225D05v02r05,KDB941225D05Av01r02, KDB447498D01v06, KDB248227D01v02r02 |
| **FCC ID (for WWAN)** | B94HNI20CPK |
| **FCC ID (for WLAN)** | B948265D2WM |
| **Date of Receipt** | Jul. 09, 2018 |
| **Date of Test(s)** | Jul. 28, 2018 ~ Sep. 07, 2018 |
| **Date of Issue** | Sep. 19, 2018 |

In the configuration tested, the EUT complied with the standards specified above.

**Remarks:**

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Taiwan Electronic & Communication Laboratory or testing done by SGS Taiwan Electronic & Communication Laboratory in connection with distribution or use of the product described in this report must be approved by SGS Taiwan Electronic & Communication Laboratory in writing.

**Signed on behalf of SGS**

| Clerk / Ruby Ou | Asst. Supervisor / Afu Chen | Asst. Manager / John Yeh |
|---|---|---|
| Ruby Ou | afu Chen | John Yeh |

**Date: Sep. 19, 2018**

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# Revision History

| Report Number | Revision | Description | Issue Date |
|---|---|---|---|
| E5/2018/70014 | Rev.00 | Initial creation of document | Sep. 10, 2018 |
| E5/2018/70014 | Rev.01 | 1st modification | Sep. 18, 2018 |
| E5/2018/70014 | Rev.02 | 2nd modification | Sep. 19, 2018 |
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# 1. General Information

## 1.1 Testing Laboratory

| | |
|---|---|
| SGS Taiwan Ltd. Electronics & Communication Laboratory | |
| 1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, Neihu District, Taipei City, 11493, Taiwan. | |
| Tel | +886-2-2299-3279 |
| Fax | +886-2-2298-0488 |
| Internet | http://www.tw.sgs.com/ |

## 1.2 Details of Applicant

| | |
|---|---|
| Company Name | HP Inc. |
| Company Address | 3390 East Harmony Road, Fort Collins Colorado, 80528 United States |

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## 1.3 Description of EUT

| | | | |
|---|---|---|---|
| Equipment Under Test | Notebook Computer | | |
| Brand Name | HP | | |
| Model No. | HSN-I20C | | |
| FCC ID(for WWAN) | B94HNI20CPK | | |
| FCC ID(for WLAN) | B948265D2WM | | |
| Integrated Module | WLAN | Brand Name : Intel<br>Model Name : 8265D2W | |
| | WWAN | Brand Name : Fibocom<br>Model Name : L860-GL | |
| Mode of Operation | ☒WCDMA ☒HSDPA ☒HSUPA<br>☒HSPA+ ☒DC-HSDPA<br>☒LTE FDD ☒LTE TDD<br>☒WLAN802.11 a/b/g/n(20M/40M)/ac(20M/40M/80M)<br>☒Bluetooth | | |
| Duty Cycle | WCDMA | 1 | |
| | LTE FDD | 1 | |
| | LTE TDD | 0.633 | |
| | WLAN802.11 a/b/g/n(20M/40M)/ ac(20M/40M/80M) | 1 | |
| | Bluetooth | 1 | |
| TX Frequency Range (MHz) | WCDMA Band II | 1850 – | 1910 |
| | WCDMA Band IV | 1710 – | 1755 |
| | WCDMA Band V | 824 – | 849 |
| | LTE FDD Band 2 | 1850 – | 1910 |
| | LTE FDD Band 4 | 1710 – | 1755 |
| | LTE FDD Band 5 | 824 – | 849 |
| | LTE FDD Band 7 | 2500 – | 2570 |
| | LTE FDD Band 12 | 699 – | 716 |

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| | | | | |
|---|---|---|---|---|
| TX Frequency Range (MHz) | LTE FDD Band 13 | 777 | – | 787 |
| | LTE FDD Band 14 | 788 | – | 798 |
| | LTE FDD Band 17 | 704 | – | 716 |
| | LTE FDD Band 25 | 1850 | – | 1915 |
| | LTE FDD Band 26 | 814 | – | 849 |
| | LTE FDD Band 30 | 2305 | – | 2315 |
| | LTE TDD Band 38 | 2570 | – | 2620 |
| | LTE TDD Band 41 | 2496 | – | 2690 |
| | LTE FDD Band 66 | 1710 | – | 1780 |
| | WLAN802.11 b/g/n(20M) | 2412 | – | 2472 |
| | WLAN802.11 n(40M) | 2422 | – | 2462 |
| | WLAN802.11 a/n(20M)/ac(20M) 5.2G | 5180 | – | 5240 |
| | WLAN802.11 n(40M)/ac(40M) 5.2G | 5190 | – | 5230 |
| | WLAN802.11 ac(80M) 5.2G | | 5210 | |
| | WLAN802.11 a/n(20M)/ac(20M) 5.3G | 5260 | – | 5320 |
| | WLAN802.11 n(40M)/ac(40M) 5.3G | 5270 | – | 5310 |
| | WLAN802.11 ac(80M) 5.3G | | 5290 | |
| | WLAN802.11 a/n/ac(20M) 5.6G | 5500 | – | 5720 |
| | WLAN802.11 n/ac(40M) 5.6G | 5510 | – | 5710 |
| | WLAN802.11 ac(80M) 5.6G | 5530 | – | 5690 |
| | WLAN802.11 a/n(20M)/ac(20M) 5.8G | 5745 | – | 5825 |
| | WLAN802.11 n(40M)/ac(40M) 5.8G | 5710 | – | 5795 |
| | WLAN802.11 ac(80M) 5.8G | | 5775 | |
| | Bluetooth | 2402 | – | 2480 |
| Channel Number (ARFCN) | WCDMA Band II | 9262 | – | 9538 |
| | WCDMA Band IV | 1312 | – | 1513 |
| | WCDMA Band V | 4132 | – | 4233 |
| | LTE FDD Band 2 | 18607 | – | 19193 |

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| | | | | |
|---|---|---|---|---|
| Channel Number (ARFCN) | LTE FDD Band 4 | 19957 | – | 20393 |
| | LTE FDD Band 5 | 20407 | – | 20643 |
| | LTE FDD Band 7 | 20775 | – | 21425 |
| | LTE FDD Band 12 | 23017 | – | 23173 |
| | LTE FDD Band 13 | 23205 | – | 23255 |
| | LTE FDD Band 14 | 23305 | – | 23355 |
| | LTE FDD Band 17 | 23755 | – | 23825 |
| | LTE FDD Band 25 | 26047 | – | 26683 |
| | LTE FDD Band 26 | 26697 | – | 27033 |
| | LTE FDD Band 30 | 27685 | – | 27735 |
| | LTE TDD Band 38 | 37775 | – | 38225 |
| | LTE TDD Band 41 | 39675 | – | 41565 |
| | LTE FDD Band 66 | 131979 | – | 132665 |
| | WLAN802.11 b/g/n(20M) | 1 | – | 13 |
| | WLAN802.11 n(40M) | 3 | – | 11 |
| | WLAN802.11 a/n(20M)/ac(20M) 5.2G | 36 | – | 48 |
| | WLAN802.11 n(40M)/ac(40M) 5.2G | 38 | – | 46 |
| | WLAN802.11 ac(80M) 5.2G | | 42 | |
| | WLAN802.11 a/n(20M)/ac(20M) 5.3G | 52 | – | 64 |
| | WLAN802.11 n(40M)/ac(40M) 5.3G | 54 | – | 62 |
| | WLAN802.11 ac(80M) 5.3G | | 58 | |
| | WLAN802.11 a/n/ac(20M) 5.6G | 100 | – | 144 |
| | WLAN802.11 n/ac(40M) 5.6G | 102 | – | 142 |
| | WLAN802.11 ac(80M) 5.6G | 106 | – | 138 |
| | WLAN802.11 a/n(20M)/ac(20M) 5.8G | 149 | – | 165 |
| | WLAN802.11 n(40M)/ac(40M) 5.8G | 151 | – | 159 |
| | WLAN802.11 ac(80M) 5.8G | | 155 | |
| | Bluetooth | 0 | – | 78 |

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| **Max. SAR (1 g)** (Unit: W/Kg) | | | | |
|---|---|---|---|---|
| Band | Measured | Reported | Channel | Position |
| WCDMA Band II | 1.20 | 1.21 | 9538 | Left side |
| WCDMA Band IV | 1.23 | 1.30 | 1412 | Left side |
| WCDMA Band V | 0.79 | 1.00 | 4132 | Left side |
| LTE FDD Band 2 | 1.02 | 1.04 | 19100 | Left side |
| LTE FDD Band 4 | 1.12 | 1.18 | 20050 | Left side |
| LTE FDD Band 5 | 0.82 | 0.84 | 20525 | Left side |
| LTE FDD Band 7 | 0.66 | 0.67 | 20850 | Top side |
| LTE FDD Band 12 | 0.69 | 0.70 | 23095 | Left side |
| LTE FDD Band 13 | 0.88 | 0.88 | 23230 | Left side |
| LTE FDD Band 14 | 0.85 | 0.87 | 23330 | Left side |
| LTE FDD Band 17 | 0.70 | 0.74 | 23800 | Left side |
| LTE FDD Band 25 | 0.97 | 1.09 | 26365 | Left side |
| LTE FDD Band 26 | 0.85 | 0.88 | 26965 | Left side |
| LTE FDD Band 30 | 0.71 | 0.71 | 27710 | Left side |
| LTE TDD Band 38 | 0.10 | 0.10 | 38150 | Top side |
| LTE TDD Band 41 | 0.58 | 0.59 | 41055 | Top side |
| LTE FDD Band 66 | 1.09 | 1.14 | 132572 | Left side |

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| **Max. SAR (1g)** (Unit: W/Kg) | | | | | |
|---|---|---|---|---|---|
| Antenna | Band | Measured | Reported | Channel | Position |
| Main | WLAN802.11 b | 0.69 | 0.70 | 1 | Top side |
| | WLAN802.11 n(40M) 5.2G | 0.66 | 0.68 | 46 | Top side |
| | WLAN802.11 n(40M) 5.3G | 0.52 | 0.53 | 54 | Top side |
| | WLAN802.11 ac(80M) 5.6G | 0.62 | 0.64 | 138 | Top side |
| | WLAN802.11 ac(80M) 5.8G | 0.66 | 0.68 | 155 | Top side |
| Aux | WLAN802.11 b | 0.54 | 0.54 | 1 | Top side |
| | Bluetooth(GFSK) | 0.11 | 0.12 | 39 | Top side |
| | WLAN802.11 n(40M) 5.2G | 0.76 | 0.77 | 38 | Top side |
| | WLAN802.11 n(40M) 5.3G | 0.65 | 0.68 | 54 | Top side |
| | WLAN802.11 ac(80M) 5.6G | 0.77 | 0.80 | 138 | Top side |
| | WLAN802.11 ac(80M) 5.8G | 0.65 | 0.65 | 155 | Top side |

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## Antenna Information

### WLAN

| Tablet mode | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Vendor | **INPAQ** | | | | **INPAQ** | | | |
| Antenna | **Main (PIFA)** | | | | **Aux (PIFA)** | | | |
| Part Number | 6036B0216001 (WA-P-LB-02-496) | | | | 6036B0215901 (WA-P-LB-02-495) | | | |
| Frequency | 2.4G | 5.2G | 5.5G | 5.8G | 2.4G | 5.2G | 5.5G | 5.8G |
| Gain (dBi) | -2.41 | -0.54 | 0.75 | 2.12 | -2.37 | -1.93 | -1.96 | 1.62 |
| NB mode | | | | | | | | |
| Vendor | **INPAQ** | | | | **INPAQ** | | | |
| Antenna | **Main (PIFA)** | | | | **Aux (PIFA)** | | | |
| Part Number | 6036B0216001 (WA-P-LB-02-496) | | | | 6036B0215901 (WA-P-LB-02-495) | | | |
| Frequency | 2.4G | 5.2G | 5.5G | 5.8G | 2.4G | 5.2G | 5.5G | 5.8G |
| Gain (dBi) | -1.38 | -0.65 | -0.17 | 0.39 | -1.13 | -1.47 | 0.20 | 0.58 |

### WWAN

| Vendor | **INPAQ** | | | | | |
|---|---|---|---|---|---|---|
| Antenna | **Couple** | | | | | |
| Part Number | 6036B0215701(WA-P-LTE12-02-008) | | | | | |
| Frequency | 750 | 835 | 1750 | 1900 | 2300 | 2600 |
| Gain (dBi) | -5.09 | -3.61 | -4.69 | -5.17 | -4.11 | -4.57 |

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**WCDMA Band II / Band IV / Band V - HSDPA / HSUPA / HSPA+ / DC-HSDPA conducted power table (Full power):**

**Unit: dBm**

| Band | | WCDMA II | | |
|---|---|---|---|---|
| TX Channel | | 9262 | 9400 | 9538 |
| Frequency (MHz) | | 1852.4 | 1880 | 1907.6 |
| Max. Rated Avg. Power+Max. Tolerance (dBm) | | **24.50** | | |
| 3GPP Rel 99 | RMC 12.2Kbps | 23.73 | 23.69 | 23.80 |
| 3GPP Rel 5 | HSDPA Subtest-1 | 22.82 | 23.13 | 22.92 |
| | HSDPA Subtest-2 | 21.77 | 22.03 | 21.92 |
| | HSDPA Subtest-3 | 21.52 | 21.52 | 21.59 |
| | HSDPA Subtest-4 | 21.52 | 21.57 | 21.55 |
| 3GPP Rel 6 | HSUPA Subtest-1 | 22.26 | 22.58 | 22.43 |
| | HSUPA Subtest-2 | 22.83 | 23.12 | 22.93 |
| | HSUPA Subtest-3 | 21.52 | 21.52 | 21.53 |
| | HSUPA Subtest-4 | 22.84 | 23.11 | 23.01 |
| | HSUPA Subtest-5 | 21.74 | 22.04 | 21.91 |
| 3GPP Rel 7 | HSPA+ Subtest-1 | 21.55 | 21.79 | 21.63 |
| 3GPP Rel 8 | DC-HSDPA Subtest-1 | 21.16 | 21.54 | 21.35 |
| | DC-HSDPA Subtest-2 | 20.87 | 21.29 | 21.07 |
| | DC-HSDPA Subtest-3 | 20.58 | 21.04 | 20.79 |
| | DC-HSDPA Subtest-4 | 20.59 | 20.79 | 20.51 |

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| Band | | WCDMA IV | | |
|---|---|---|---|---|
| TX Channel | | 1312 | 1412 | 1513 |
| Frequency (MHz) | | 1712.4 | 1732.4 | 1752.6 |
| Max. Rated Avg. Power+Max. Tolerance (dBm) | | **24.50** | | |
| 3GPP Rel 99 | RMC 12.2Kbps | 23.27 | 23.50 | 23.21 |
| 3GPP Rel 5 | HSDPA Subtest-1 | 22.73 | 23.06 | 22.82 |
| | HSDPA Subtest-2 | 21.76 | 22.01 | 21.82 |
| | HSDPA Subtest-3 | 21.58 | 21.59 | 21.52 |
| | HSDPA Subtest-4 | 21.56 | 21.54 | 21.51 |
| 3GPP Rel 6 | HSUPA Subtest-1 | 22.18 | 22.53 | 22.31 |
| | HSUPA Subtest-2 | 22.69 | 23.02 | 22.84 |
| | HSUPA Subtest-3 | 21.52 | 21.53 | 21.53 |
| | HSUPA Subtest-4 | 22.74 | 23.03 | 22.83 |
| | HSUPA Subtest-5 | 21.71 | 22.01 | 21.85 |
| 3GPP Rel 7 | HSPA+ Subtest-1 | 22.86 | 23.02 | 22.83 |
| 3GPP Rel 8 | DC-HSDPA Subtest-1 | 22.45 | 22.44 | 22.45 |
| | DC-HSDPA Subtest-2 | 22.04 | 22.06 | 22.07 |
| | DC-HSDPA Subtest-3 | 21.63 | 21.58 | 21.69 |
| | DC-HSDPA Subtest-4 | 21.22 | 21.10 | 21.31 |
| Band | | WCDMA V | | |
| TX Channel | | 4132 | 4183 | 4233 |
| Frequency (MHz) | | 826.4 | 836.6 | 846.6 |
| Max. Rated Avg. Power+Max. Tolerance (dBm) | | **24.50** | | |
| 3GPP Rel 99 | RMC 12.2Kbps | 23.98 | 23.90 | 23.93 |
| 3GPP Rel 5 | HSDPA Subtest-1 | 23.43 | 23.46 | 23.45 |
| | HSDPA Subtest-2 | 22.69 | 22.64 | 22.55 |
| | HSDPA Subtest-3 | 22.14 | 22.05 | 21.90 |
| | HSDPA Subtest-4 | 21.87 | 21.98 | 21.82 |
| 3GPP Rel 6 | HSUPA Subtest-1 | 22.65 | 22.65 | 22.59 |
| | HSUPA Subtest-2 | 22.36 | 22.28 | 22.25 |
| | HSUPA Subtest-3 | 21.58 | 21.98 | 21.96 |
| | HSUPA Subtest-4 | 21.61 | 21.59 | 21.57 |
| | HSUPA Subtest-5 | 22.73 | 22.67 | 22.52 |
| 3GPP Rel 7 | HSPA+ Subtest-1 | 23.47 | 23.40 | 23.45 |
| 3GPP Rel 8 | DC-HSDPA Subtest-1 | 21.76 | 21.70 | 21.77 |
| | DC-HSDPA Subtest-2 | 21.65 | 21.60 | 21.69 |
| | DC-HSDPA Subtest-3 | 22.44 | 22.50 | 22.41 |
| | DC-HSDPA Subtest-4 | 22.43 | 22.40 | 22.43 |

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**WCDMA Band II / Band IV / Band V - HSDPA / HSUPA / HSPA+ / DC-HSDPA conducted power table(Reduced power):**

**Unit: dBm**

| Band | | WCDMA II | | |
|---|---|---|---|---|
| TX Channel | | 9262 | 9400 | 9538 |
| Frequency (MHz) | | 1852.4 | 1880 | 1907.6 |
| Max. Rated Avg. Power+Max. Tolerance (dBm) | | **16.50** | | |
| 3GPP Rel 99 | RMC 12.2Kbps | 16.41 | 16.39 | 16.42 |
| 3GPP Rel 5 | HSDPA Subtest-1 | 16.20 | 16.06 | 16.16 |
| | HSDPA Subtest-2 | 16.12 | 16.12 | 16.12 |
| | HSDPA Subtest-3 | 16.07 | 16.03 | 16.08 |
| | HSDPA Subtest-4 | 16.09 | 16.12 | 16.12 |
| 3GPP Rel 6 | HSUPA Subtest-1 | 16.09 | 16.20 | 16.04 |
| | HSUPA Subtest-2 | 16.14 | 16.17 | 16.04 |
| | HSUPA Subtest-3 | 16.04 | 16.17 | 16.19 |
| | HSUPA Subtest-4 | 16.09 | 16.12 | 16.03 |
| | HSUPA Subtest-5 | 16.13 | 16.13 | 16.05 |
| 3GPP Rel 7 | HSPA+ Subtest-1 | 16.01 | 16.04 | 16.03 |
| 3GPP Rel 8 | DC-HSDPA Subtest-1 | 16.01 | 16.06 | 16.08 |
| | DC-HSDPA Subtest-2 | 16.03 | 16.14 | 16.20 |
| | DC-HSDPA Subtest-3 | 16.15 | 16.05 | 16.02 |
| | DC-HSDPA Subtest-4 | 16.19 | 16.07 | 16.02 |

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| Band | | WCDMA IV | | |
|---|---|---|---|---|
| TX Channel | | 1312 | 1412 | 1513 |
| Frequency (MHz) | | 1712.4 | 1732.4 | 1752.6 |
| Max. Rated Avg. Power+Max. Tolerance (dBm) | | **18.50** | | |
| 3GPP Rel 99 | RMC 12.2Kbps | 18.21 | 18.27 | 18.26 |
| 3GPP Rel 5 | HSDPA Subtest-1 | 18.07 | 18.15 | 18.12 |
| | HSDPA Subtest-2 | 18.03 | 18.05 | 18.12 |
| | HSDPA Subtest-3 | 18.06 | 18.16 | 18.01 |
| | HSDPA Subtest-4 | 18.08 | 18.11 | 18.03 |
| 3GPP Rel 6 | HSUPA Subtest-1 | 18.15 | 18.02 | 18.03 |
| | HSUPA Subtest-2 | 18.04 | 18.16 | 18.06 |
| | HSUPA Subtest-3 | 18.09 | 18.10 | 18.20 |
| | HSUPA Subtest-4 | 18.16 | 18.01 | 18.17 |
| | HSUPA Subtest-5 | 18.19 | 18.05 | 18.18 |
| 3GPP Rel 7 | HSPA+ Subtest-1 | 18.03 | 18.15 | 18.12 |
| 3GPP Rel 8 | DC-HSDPA Subtest-1 | 18.01 | 18.18 | 18.20 |
| | DC-HSDPA Subtest-2 | 18.15 | 18.01 | 18.17 |
| | DC-HSDPA Subtest-3 | 18.06 | 18.11 | 18.03 |
| | DC-HSDPA Subtest-4 | 18.16 | 18.12 | 18.16 |
| Band | | WCDMA V | | |
| TX Channel | | 4132 | 4183 | 4233 |
| Frequency (MHz) | | 826.4 | 836.6 | 846.6 |
| Max. Rated Avg. Power+Max. Tolerance (dBm) | | **22.50** | | |
| 3GPP Rel 99 | RMC 12.2Kbps | 21.48 | 21.44 | 21.46 |
| 3GPP Rel 5 | HSDPA Subtest-1 | 21.39 | 21.30 | 21.16 |
| | HSDPA Subtest-2 | 21.16 | 21.31 | 21.21 |
| | HSDPA Subtest-3 | 21.10 | 21.33 | 21.16 |
| | HSDPA Subtest-4 | 21.15 | 21.17 | 21.33 |
| 3GPP Rel 6 | HSUPA Subtest-1 | 21.24 | 21.16 | 21.36 |
| | HSUPA Subtest-2 | 21.24 | 21.17 | 21.29 |
| | HSUPA Subtest-3 | 21.18 | 21.13 | 21.12 |
| | HSUPA Subtest-4 | 21.17 | 21.35 | 21.16 |
| | HSUPA Subtest-5 | 21.40 | 21.21 | 21.17 |
| 3GPP Rel 7 | HSPA+ Subtest-1 | 21.32 | 21.22 | 21.21 |
| 3GPP Rel 8 | DC-HSDPA Subtest-1 | 21.35 | 21.16 | 21.31 |
| | DC-HSDPA Subtest-2 | 21.28 | 21.36 | 21.11 |
| | DC-HSDPA Subtest-3 | 21.37 | 21.22 | 21.37 |
| | DC-HSDPA Subtest-4 | 21.21 | 21.32 | 21.40 |

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## Sub-Test for HSDPA

| SUB-TEST | $\beta_c$ | $\beta_d$ | $\beta_d$ *(SF)* | $\beta_c/\beta_d$ | $\beta_{HS}$ *(Note1, Note 2)* | CM (dB) *(Note 3)* | MPR (dB) *(Note 3)* |
|---|---|---|---|---|---|---|---|
| 1 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 0.0 | 0.0 |
| 2 | 12/15 | 15/15 | 64 | 12/15 | 24/15 | 1.0 | 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 |

## Sub-Test for HSUPA

| SUB-TEST | $\beta_c$ | $\beta_d$ | $\beta_d$ *(SF)* | $\beta_c/\beta_d$ | $\beta_{HS}$ *(Note1)* | $\beta_{ec}$ | $\beta_{ed}$ *(Note 5) (Note 6)* | $\beta_{ed}$ *(SF)* | $\beta_{ed}$ *(Codes)* | CM *(dB) (Note 2)* | MPR *(dB) (Note 2)* | *AG Index (Note 6)* | *E-TFCI* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11/15 | 15/15 | 64 | 11/15 | 22/15 | 209/225 | 1309/225 | 4 | 1 | 1.0 | 0.0 | 20 | 75 |
| 2 | 6/15 | 15/15 | 64 | 6/15 | 12/15 | 12/15 | 94/75 | 4 | 1 | 3.0 | 2.0 | 12 | 67 |
| 3 | 15/15 | 9/15 | 64 | 15/9 | 30/15 | 30/15 | $\beta_{ed}1$: 47/15<br>$\beta_{ed}2$: 47/15 | 4<br>4 | 2 | 2.0 | 1.0 | 15 | 92 |
| 4 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 2/15 | 56/75 | 4 | 1 | 3.0 | 2.0 | 17 | 71 |
| 5 | 15/15 | 15/15 | 64 | 15/15 | 30/15 | 24/15 | 134/15 | 4 | 1 | 1.0 | 0.0 | 21 | 81 |

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## LTE FDD Band 2 / Band 4 / Band 5 / Band 7 / Band 12 / Band 13 / Band 14 / Band 17 / Band 25 / Band 26 / Band 30 / Band 66 power table (Full power):

| FDD Band 2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20 | QPSK | 1 RB | 0 | 1860 | 18700 | 23.70 | 24 | 0 |
| | | | | 1880 | 18900 | 23.66 | 24 | 0 |
| | | | | 1900 | 19100 | 23.50 | 24 | 0 |
| | | | 50 | 1860 | 18700 | 23.40 | 24 | 0 |
| | | | | 1880 | 18900 | 23.45 | 24 | 0 |
| | | | | 1900 | 19100 | 23.86 | 24 | 0 |
| | | | 99 | 1860 | 18700 | 23.56 | 24 | 0 |
| | | | | 1880 | 18900 | 23.54 | 24 | 0 |
| | | | | 1900 | 19100 | 23.34 | 24 | 0 |
| | | 50 RB | 0 | 1860 | 18700 | 22.55 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.60 | 23 | 0-1 |
| | | | | 1900 | 19100 | 22.46 | 23 | 0-1 |
| | | | 25 | 1860 | 18700 | 22.47 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.56 | 23 | 0-1 |
| | | | | 1900 | 19100 | 22.57 | 23 | 0-1 |
| | | | 50 | 1860 | 18700 | 22.36 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.62 | 23 | 0-1 |
| | | | | 1900 | 19100 | 22.66 | 23 | 0-1 |
| | | 100RB | | 1860 | 18700 | 22.52 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.60 | 23 | 0-1 |
| | | | | 1900 | 19100 | 22.71 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1860 | 18700 | 22.47 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.67 | 23 | 0-1 |
| | | | | 1900 | 19100 | 22.51 | 23 | 0-1 |
| | | | 50 | 1860 | 18700 | 22.97 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.91 | 23 | 0-1 |
| | | | | 1900 | 19100 | 22.85 | 23 | 0-1 |
| | | | 99 | 1860 | 18700 | 22.75 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.45 | 23 | 0-1 |
| | | | | 1900 | 19100 | 22.40 | 23 | 0-1 |
| | | 50 RB | 0 | 1860 | 18700 | 21.54 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.59 | 22 | 0-2 |
| | | | | 1900 | 19100 | 21.49 | 22 | 0-2 |
| | | | 25 | 1860 | 18700 | 21.50 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.48 | 22 | 0-2 |
| | | | | 1900 | 19100 | 21.59 | 22 | 0-2 |
| | | | 50 | 1860 | 18700 | 21.37 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.53 | 22 | 0-2 |
| | | | | 1900 | 19100 | 21.52 | 22 | 0-2 |
| | | 100RB | | 1860 | 18700 | 21.42 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.62 | 22 | 0-2 |
| | | | | 1900 | 19100 | 21.66 | 22 | 0-2 |

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| FDD Band 2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15 | QPSK | 1 RB | 0 | 1857.5 | 18675 | 23.46 | 24 | 0 |
| | | | | 1880 | 18900 | 23.38 | 24 | 0 |
| | | | | 1902.5 | 19125 | 23.49 | 24 | 0 |
| | | | 36 | 1857.5 | 18675 | 23.38 | 24 | 0 |
| | | | | 1880 | 18900 | 23.79 | 24 | 0 |
| | | | | 1902.5 | 19125 | 23.68 | 24 | 0 |
| | | | 74 | 1857.5 | 18675 | 23.49 | 24 | 0 |
| | | | | 1880 | 18900 | 23.42 | 24 | 0 |
| | | | | 1902.5 | 19125 | 23.22 | 24 | 0 |
| | | 36 RB | 0 | 1857.5 | 18675 | 22.45 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.51 | 23 | 0-1 |
| | | | | 1902.5 | 19125 | 22.58 | 23 | 0-1 |
| | | | 18 | 1857.5 | 18675 | 22.47 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.54 | 23 | 0-1 |
| | | | | 1902.5 | 19125 | 22.62 | 23 | 0-1 |
| | | | 37 | 1857.5 | 18675 | 22.34 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.59 | 23 | 0-1 |
| | | | | 1902.5 | 19125 | 22.58 | 23 | 0-1 |
| | | 75RB | | 1857.5 | 18675 | 22.48 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.51 | 23 | 0-1 |
| | | | | 1902.5 | 19125 | 22.64 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1857.5 | 18675 | 22.81 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.59 | 23 | 0-1 |
| | | | | 1902.5 | 19125 | 22.50 | 23 | 0-1 |
| | | | 36 | 1857.5 | 18675 | 22.48 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.82 | 23 | 0-1 |
| | | | | 1902.5 | 19125 | 22.43 | 23 | 0-1 |
| | | | 74 | 1857.5 | 18675 | 22.85 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.90 | 23 | 0-1 |
| | | | | 1902.5 | 19125 | 22.83 | 23 | 0-1 |
| | | 36 RB | 0 | 1857.5 | 18675 | 21.51 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.47 | 22 | 0-2 |
| | | | | 1902.5 | 19125 | 21.63 | 22 | 0-2 |
| | | | 18 | 1857.5 | 18675 | 21.58 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.50 | 22 | 0-2 |
| | | | | 1902.5 | 19125 | 21.64 | 22 | 0-2 |
| | | | 37 | 1857.5 | 18675 | 21.45 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.54 | 22 | 0-2 |
| | | | | 1902.5 | 19125 | 21.71 | 22 | 0-2 |
| | | 75RB | | 1857.5 | 18675 | 21.59 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.38 | 22 | 0-2 |
| | | | | 1902.5 | 19125 | 21.72 | 22 | 0-2 |

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| FDD Band 2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 1855 | 18650 | 23.53 | 24 | 0 |
| | | | | 1880 | 18900 | 23.71 | 24 | 0 |
| | | | | 1905 | 19150 | 23.49 | 24 | 0 |
| | | | 25 | 1855 | 18650 | 23.33 | 24 | 0 |
| | | | | 1880 | 18900 | 23.48 | 24 | 0 |
| | | | | 1905 | 19150 | 23.54 | 24 | 0 |
| | | | 49 | 1855 | 18650 | 23.43 | 24 | 0 |
| | | | | 1880 | 18900 | 23.45 | 24 | 0 |
| | | | | 1905 | 19150 | 22.95 | 24 | 0 |
| | | 25 RB | 0 | 1855 | 18650 | 22.42 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.57 | 23 | 0-1 |
| | | | | 1905 | 19150 | 22.63 | 23 | 0-1 |
| | | | 12 | 1855 | 18650 | 22.39 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.56 | 23 | 0-1 |
| | | | | 1905 | 19150 | 22.55 | 23 | 0-1 |
| | | | 25 | 1855 | 18650 | 22.44 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.46 | 23 | 0-1 |
| | | | | 1905 | 19150 | 22.47 | 23 | 0-1 |
| | | 50RB | | 1855 | 18650 | 22.45 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.41 | 23 | 0-1 |
| | | | | 1905 | 19150 | 22.54 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1855 | 18650 | 22.95 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.66 | 23 | 0-1 |
| | | | | 1905 | 19150 | 22.76 | 23 | 0-1 |
| | | | 25 | 1855 | 18650 | 22.76 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.61 | 23 | 0-1 |
| | | | | 1905 | 19150 | 22.74 | 23 | 0-1 |
| | | | 49 | 1855 | 18650 | 22.63 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.66 | 23 | 0-1 |
| | | | | 1905 | 19150 | 22.39 | 23 | 0-1 |
| | | 25 RB | 0 | 1855 | 18650 | 21.52 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.58 | 22 | 0-2 |
| | | | | 1905 | 19150 | 21.70 | 22 | 0-2 |
| | | | 12 | 1855 | 18650 | 21.49 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.71 | 22 | 0-2 |
| | | | | 1905 | 19150 | 21.69 | 22 | 0-2 |
| | | | 25 | 1855 | 18650 | 21.55 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.57 | 22 | 0-2 |
| | | | | 1905 | 19150 | 21.60 | 22 | 0-2 |
| | | 50RB | | 1855 | 18650 | 21.44 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.57 | 22 | 0-2 |
| | | | | 1905 | 19150 | 21.58 | 22 | 0-2 |

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| FDD Band 2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 1852.5 | 18625 | 23.40 | 24 | 0 |
| | | | | 1880 | 18900 | 23.56 | 24 | 0 |
| | | | | 1907.5 | 19175 | 23.50 | 24 | 0 |
| | | | 12 | 1852.5 | 18625 | 23.35 | 24 | 0 |
| | | | | 1880 | 18900 | 23.55 | 24 | 0 |
| | | | | 1907.5 | 19175 | 23.42 | 24 | 0 |
| | | | 24 | 1852.5 | 18625 | 23.27 | 24 | 0 |
| | | | | 1880 | 18900 | 23.41 | 24 | 0 |
| | | | | 1907.5 | 19175 | 23.34 | 24 | 0 |
| | | 12 RB | 0 | 1852.5 | 18625 | 22.54 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.73 | 23 | 0-1 |
| | | | | 1907.5 | 19175 | 22.69 | 23 | 0-1 |
| | | | 6 | 1852.5 | 18625 | 22.48 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.67 | 23 | 0-1 |
| | | | | 1907.5 | 19175 | 22.65 | 23 | 0-1 |
| | | | 13 | 1852.5 | 18625 | 22.47 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.53 | 23 | 0-1 |
| | | | | 1907.5 | 19175 | 22.60 | 23 | 0-1 |
| | | 25RB | | 1852.5 | 18625 | 22.44 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.52 | 23 | 0-1 |
| | | | | 1907.5 | 19175 | 22.66 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1852.5 | 18625 | 22.21 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.69 | 23 | 0-1 |
| | | | | 1907.5 | 19175 | 22.92 | 23 | 0-1 |
| | | | 12 | 1852.5 | 18625 | 22.38 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.75 | 23 | 0-1 |
| | | | | 1907.5 | 19175 | 22.78 | 23 | 0-1 |
| | | | 24 | 1852.5 | 18625 | 22.63 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.64 | 23 | 0-1 |
| | | | | 1907.5 | 19175 | 22.40 | 23 | 0-1 |
| | | 12 RB | 0 | 1852.5 | 18625 | 21.76 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.65 | 22 | 0-2 |
| | | | | 1907.5 | 19175 | 21.59 | 22 | 0-2 |
| | | | 6 | 1852.5 | 18625 | 21.78 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.63 | 22 | 0-2 |
| | | | | 1907.5 | 19175 | 21.56 | 22 | 0-2 |
| | | | 13 | 1852.5 | 18625 | 21.75 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.65 | 22 | 0-2 |
| | | | | 1907.5 | 19175 | 21.62 | 22 | 0-2 |
| | | 25RB | | 1852.5 | 18625 | 21.75 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.58 | 22 | 0-2 |
| | | | | 1907.5 | 19175 | 21.63 | 22 | 0-2 |

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| FDD Band 2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3 | QPSK | 1 RB | 0 | 1851.5 | 18615 | 23.24 | 24 | 0 |
| | | | | 1880 | 18900 | 23.33 | 24 | 0 |
| | | | | 1908.5 | 19185 | 23.53 | 24 | 0 |
| | | | 7 | 1851.5 | 18615 | 23.34 | 24 | 0 |
| | | | | 1880 | 18900 | 23.51 | 24 | 0 |
| | | | | 1908.5 | 19185 | 23.35 | 24 | 0 |
| | | | 14 | 1851.5 | 18615 | 23.37 | 24 | 0 |
| | | | | 1880 | 18900 | 23.34 | 24 | 0 |
| | | | | 1908.5 | 19185 | 23.11 | 24 | 0 |
| | | 8 RB | 0 | 1851.5 | 18615 | 22.53 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.53 | 23 | 0-1 |
| | | | | 1908.5 | 19185 | 22.34 | 23 | 0-1 |
| | | | 4 | 1851.5 | 18615 | 22.56 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.39 | 23 | 0-1 |
| | | | | 1908.5 | 19185 | 22.38 | 23 | 0-1 |
| | | | 7 | 1851.5 | 18615 | 22.51 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.44 | 23 | 0-1 |
| | | | | 1908.5 | 19185 | 22.25 | 23 | 0-1 |
| | | 15RB | | 1851.5 | 18615 | 22.52 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.47 | 23 | 0-1 |
| | | | | 1908.5 | 19185 | 22.42 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1851.5 | 18615 | 22.73 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.51 | 23 | 0-1 |
| | | | | 1908.5 | 19185 | 22.61 | 23 | 0-1 |
| | | | 7 | 1851.5 | 18615 | 22.87 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.69 | 23 | 0-1 |
| | | | | 1908.5 | 19185 | 22.55 | 23 | 0-1 |
| | | | 14 | 1851.5 | 18615 | 22.54 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.83 | 23 | 0-1 |
| | | | | 1908.5 | 19185 | 22.30 | 23 | 0-1 |
| | | 8 RB | 0 | 1851.5 | 18615 | 21.46 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.57 | 22 | 0-2 |
| | | | | 1908.5 | 19185 | 21.50 | 22 | 0-2 |
| | | | 4 | 1851.5 | 18615 | 21.52 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.49 | 22 | 0-2 |
| | | | | 1908.5 | 19185 | 21.32 | 22 | 0-2 |
| | | | 7 | 1851.5 | 18615 | 21.45 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.52 | 22 | 0-2 |
| | | | | 1908.5 | 19185 | 21.25 | 22 | 0-2 |
| | | 15RB | | 1851.5 | 18615 | 21.44 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.54 | 22 | 0-2 |
| | | | | 1908.5 | 19185 | 21.34 | 22 | 0-2 |

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| FDD Band 2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4 | QPSK | 1 RB | 0 | 1850.7 | 18607 | 23.41 | 24 | 0 |
| | | | | 1880 | 18900 | 23.49 | 24 | 0 |
| | | | | 1909.3 | 19193 | 23.41 | 24 | 0 |
| | | | 2 | 1850.7 | 18607 | 23.41 | 24 | 0 |
| | | | | 1880 | 18900 | 23.45 | 24 | 0 |
| | | | | 1909.3 | 19193 | 23.34 | 24 | 0 |
| | | | 5 | 1850.7 | 18607 | 23.43 | 24 | 0 |
| | | | | 1880 | 18900 | 23.54 | 24 | 0 |
| | | | | 1909.3 | 19193 | 23.34 | 24 | 0 |
| | | 3 RB | 0 | 1850.7 | 18607 | 23.38 | 24 | 0 |
| | | | | 1880 | 18900 | 23.46 | 24 | 0 |
| | | | | 1909.3 | 19193 | 23.08 | 24 | 0 |
| | | | 2 | 1850.7 | 18607 | 23.33 | 24 | 0 |
| | | | | 1880 | 18900 | 23.34 | 24 | 0 |
| | | | | 1909.3 | 19193 | 23.14 | 24 | 0 |
| | | | 3 | 1850.7 | 18607 | 23.16 | 24 | 0 |
| | | | | 1880 | 18900 | 23.46 | 24 | 0 |
| | | | | 1909.3 | 19193 | 22.92 | 24 | 0 |
| | | 6RB | | 1850.7 | 18607 | 22.39 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.50 | 23 | 0-1 |
| | | | | 1909.3 | 19193 | 22.28 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1850.7 | 18607 | 22.17 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.21 | 23 | 0-1 |
| | | | | 1909.3 | 19193 | 22.10 | 23 | 0-1 |
| | | | 2 | 1850.7 | 18607 | 22.45 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.23 | 23 | 0-1 |
| | | | | 1909.3 | 19193 | 22.03 | 23 | 0-1 |
| | | | 5 | 1850.7 | 18607 | 22.53 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.30 | 23 | 0-1 |
| | | | | 1909.3 | 19193 | 22.43 | 23 | 0-1 |
| | | 3 RB | 0 | 1850.7 | 18607 | 22.22 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.44 | 23 | 0-1 |
| | | | | 1909.3 | 19193 | 21.96 | 23 | 0-1 |
| | | | 2 | 1850.7 | 18607 | 22.34 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.55 | 23 | 0-1 |
| | | | | 1909.3 | 19193 | 22.19 | 23 | 0-1 |
| | | | 3 | 1850.7 | 18607 | 22.46 | 23 | 0-1 |
| | | | | 1880 | 18900 | 22.41 | 23 | 0-1 |
| | | | | 1909.3 | 19193 | 21.99 | 23 | 0-1 |
| | | 6RB | | 1850.7 | 18607 | 21.28 | 22 | 0-2 |
| | | | | 1880 | 18900 | 21.40 | 22 | 0-2 |
| | | | | 1909.3 | 19193 | 21.29 | 22 | 0-2 |

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| FDD Band 4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20 | QPSK | 1 RB | 0 | 1720 | 20050 | 23.34 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.17 | 24 | 0 |
| | | | | 1745 | 20300 | 23.50 | 24 | 0 |
| | | | 50 | 1720 | 20050 | 23.51 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.44 | 24 | 0 |
| | | | | 1745 | 20300 | 23.45 | 24 | 0 |
| | | | 99 | 1720 | 20050 | 23.22 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.65 | 24 | 0 |
| | | | | 1745 | 20300 | 23.56 | 24 | 0 |
| | | 50 RB | 0 | 1720 | 20050 | 22.32 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.42 | 23 | 0-1 |
| | | | | 1745 | 20300 | 22.52 | 23 | 0-1 |
| | | | 25 | 1720 | 20050 | 22.31 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.38 | 23 | 0-1 |
| | | | | 1745 | 20300 | 22.46 | 23 | 0-1 |
| | | | 50 | 1720 | 20050 | 22.26 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.48 | 23 | 0-1 |
| | | | | 1745 | 20300 | 22.53 | 23 | 0-1 |
| | | 100RB | | 1720 | 20050 | 22.30 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.39 | 23 | 0-1 |
| | | | | 1745 | 20300 | 22.49 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1720 | 20050 | 22.61 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.74 | 23 | 0-1 |
| | | | | 1745 | 20300 | 22.78 | 23 | 0-1 |
| | | | 50 | 1720 | 20050 | 22.58 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.84 | 23 | 0-1 |
| | | | | 1745 | 20300 | 22.62 | 23 | 0-1 |
| | | | 99 | 1720 | 20050 | 22.57 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.54 | 23 | 0-1 |
| | | | | 1745 | 20300 | 22.61 | 23 | 0-1 |
| | | 50 RB | 0 | 1720 | 20050 | 21.28 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.49 | 22 | 0-2 |
| | | | | 1745 | 20300 | 21.59 | 22 | 0-2 |
| | | | 25 | 1720 | 20050 | 21.29 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.39 | 22 | 0-2 |
| | | | | 1745 | 20300 | 21.55 | 22 | 0-2 |
| | | | 50 | 1720 | 20050 | 21.40 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.56 | 22 | 0-2 |
| | | | | 1745 | 20300 | 21.68 | 22 | 0-2 |
| | | 100RB | | 1720 | 20050 | 21.32 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.50 | 22 | 0-2 |
| | | | | 1745 | 20300 | 21.56 | 22 | 0-2 |

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| FDD Band 4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15 | QPSK | 1 RB | 0 | 1717.5 | 20025 | 23.36 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.45 | 24 | 0 |
| | | | | 1747.5 | 20325 | 23.44 | 24 | 0 |
| | | | 36 | 1717.5 | 20025 | 23.39 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.38 | 24 | 0 |
| | | | | 1747.5 | 20325 | 23.48 | 24 | 0 |
| | | | 74 | 1717.5 | 20025 | 23.49 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.41 | 24 | 0 |
| | | | | 1747.5 | 20325 | 23.52 | 24 | 0 |
| | | 36 RB | 0 | 1717.5 | 20025 | 22.41 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.44 | 23 | 0-1 |
| | | | | 1747.5 | 20325 | 22.57 | 23 | 0-1 |
| | | | 18 | 1717.5 | 20025 | 22.42 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.39 | 23 | 0-1 |
| | | | | 1747.5 | 20325 | 22.62 | 23 | 0-1 |
| | | | 37 | 1717.5 | 20025 | 22.44 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.49 | 23 | 0-1 |
| | | | | 1747.5 | 20325 | 22.65 | 23 | 0-1 |
| | | 75RB | | 1717.5 | 20025 | 22.46 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.43 | 23 | 0-1 |
| | | | | 1747.5 | 20325 | 22.59 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1717.5 | 20025 | 22.42 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.80 | 23 | 0-1 |
| | | | | 1747.5 | 20325 | 22.95 | 23 | 0-1 |
| | | | 36 | 1717.5 | 20025 | 22.83 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.69 | 23 | 0-1 |
| | | | | 1747.5 | 20325 | 22.90 | 23 | 0-1 |
| | | | 74 | 1717.5 | 20025 | 22.69 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.81 | 23 | 0-1 |
| | | | | 1747.5 | 20325 | 22.66 | 23 | 0-1 |
| | | 36 RB | 0 | 1717.5 | 20025 | 21.60 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.53 | 22 | 0-2 |
| | | | | 1747.5 | 20325 | 21.65 | 22 | 0-2 |
| | | | 18 | 1717.5 | 20025 | 21.50 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.55 | 22 | 0-2 |
| | | | | 1747.5 | 20325 | 21.60 | 22 | 0-2 |
| | | | 37 | 1717.5 | 20025 | 21.45 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.52 | 22 | 0-2 |
| | | | | 1747.5 | 20325 | 21.77 | 22 | 0-2 |
| | | 75RB | | 1717.5 | 20025 | 21.53 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.55 | 22 | 0-2 |
| | | | | 1747.5 | 20325 | 21.60 | 22 | 0-2 |

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| FDD Band 4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 1715 | 20000 | 23.32 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.51 | 24 | 0 |
| | | | | 1750 | 20350 | 23.57 | 24 | 0 |
| | | | 25 | 1715 | 20000 | 23.37 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.44 | 24 | 0 |
| | | | | 1750 | 20350 | 23.57 | 24 | 0 |
| | | | 49 | 1715 | 20000 | 23.42 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.53 | 24 | 0 |
| | | | | 1750 | 20350 | 23.52 | 24 | 0 |
| | | 25 RB | 0 | 1715 | 20000 | 22.46 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.42 | 23 | 0-1 |
| | | | | 1750 | 20350 | 22.56 | 23 | 0-1 |
| | | | 12 | 1715 | 20000 | 22.45 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.43 | 23 | 0-1 |
| | | | | 1750 | 20350 | 22.60 | 23 | 0-1 |
| | | | 25 | 1715 | 20000 | 22.43 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.48 | 23 | 0-1 |
| | | | | 1750 | 20350 | 22.58 | 23 | 0-1 |
| | | 50RB | | 1715 | 20000 | 22.48 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.42 | 23 | 0-1 |
| | | | | 1750 | 20350 | 22.59 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1715 | 20000 | 22.94 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.64 | 23 | 0-1 |
| | | | | 1750 | 20350 | 22.89 | 23 | 0-1 |
| | | | 25 | 1715 | 20000 | 22.58 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.60 | 23 | 0-1 |
| | | | | 1750 | 20350 | 22.80 | 23 | 0-1 |
| | | | 49 | 1715 | 20000 | 22.73 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.46 | 23 | 0-1 |
| | | | | 1750 | 20350 | 22.75 | 23 | 0-1 |
| | | 25 RB | 0 | 1715 | 20000 | 21.58 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.50 | 22 | 0-2 |
| | | | | 1750 | 20350 | 21.71 | 22 | 0-2 |
| | | | 12 | 1715 | 20000 | 21.53 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.55 | 22 | 0-2 |
| | | | | 1750 | 20350 | 21.81 | 22 | 0-2 |
| | | | 25 | 1715 | 20000 | 21.49 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.57 | 22 | 0-2 |
| | | | | 1750 | 20350 | 21.76 | 22 | 0-2 |
| | | 50RB | | 1715 | 20000 | 21.52 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.46 | 22 | 0-2 |
| | | | | 1750 | 20350 | 21.64 | 22 | 0-2 |

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| FDD Band 4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 1712.5 | 19975 | 23.42 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.46 | 24 | 0 |
| | | | | 1752.5 | 20375 | 23.49 | 24 | 0 |
| | | | 12 | 1712.5 | 19975 | 23.59 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.39 | 24 | 0 |
| | | | | 1752.5 | 20375 | 23.50 | 24 | 0 |
| | | | 24 | 1712.5 | 19975 | 23.47 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.54 | 24 | 0 |
| | | | | 1752.5 | 20375 | 23.53 | 24 | 0 |
| | | 12 RB | 0 | 1712.5 | 19975 | 22.48 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.53 | 23 | 0-1 |
| | | | | 1752.5 | 20375 | 22.58 | 23 | 0-1 |
| | | | 6 | 1712.5 | 19975 | 22.45 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.44 | 23 | 0-1 |
| | | | | 1752.5 | 20375 | 22.63 | 23 | 0-1 |
| | | | 13 | 1712.5 | 19975 | 22.47 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.57 | 23 | 0-1 |
| | | | | 1752.5 | 20375 | 22.56 | 23 | 0-1 |
| | | 25RB | | 1712.5 | 19975 | 22.51 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.50 | 23 | 0-1 |
| | | | | 1752.5 | 20375 | 22.57 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1712.5 | 19975 | 22.68 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.58 | 23 | 0-1 |
| | | | | 1752.5 | 20375 | 22.53 | 23 | 0-1 |
| | | | 12 | 1712.5 | 19975 | 22.93 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.97 | 23 | 0-1 |
| | | | | 1752.5 | 20375 | 22.79 | 23 | 0-1 |
| | | | 24 | 1712.5 | 19975 | 22.95 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.69 | 23 | 0-1 |
| | | | | 1752.5 | 20375 | 22.70 | 23 | 0-1 |
| | | 12 RB | 0 | 1712.5 | 19975 | 21.67 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.60 | 22 | 0-2 |
| | | | | 1752.5 | 20375 | 21.77 | 22 | 0-2 |
| | | | 6 | 1712.5 | 19975 | 21.71 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.55 | 22 | 0-2 |
| | | | | 1752.5 | 20375 | 21.73 | 22 | 0-2 |
| | | | 13 | 1712.5 | 19975 | 21.74 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.57 | 22 | 0-2 |
| | | | | 1752.5 | 20375 | 21.85 | 22 | 0-2 |
| | | 25RB | | 1712.5 | 19975 | 21.67 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.49 | 22 | 0-2 |
| | | | | 1752.5 | 20375 | 21.67 | 22 | 0-2 |

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| FDD Band 4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3 | QPSK | 1 RB | 0 | 1711.5 | 19965 | 23.19 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.26 | 24 | 0 |
| | | | | 1753.5 | 20385 | 23.47 | 24 | 0 |
| | | | 7 | 1711.5 | 19965 | 23.15 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.31 | 24 | 0 |
| | | | | 1753.5 | 20385 | 23.50 | 24 | 0 |
| | | | 14 | 1711.5 | 19965 | 23.25 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.34 | 24 | 0 |
| | | | | 1753.5 | 20385 | 23.44 | 24 | 0 |
| | | 8 RB | 0 | 1711.5 | 19965 | 22.24 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.29 | 23 | 0-1 |
| | | | | 1753.5 | 20385 | 22.59 | 23 | 0-1 |
| | | | 4 | 1711.5 | 19965 | 22.17 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.26 | 23 | 0-1 |
| | | | | 1753.5 | 20385 | 22.56 | 23 | 0-1 |
| | | | 7 | 1711.5 | 19965 | 22.37 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.33 | 23 | 0-1 |
| | | | | 1753.5 | 20385 | 22.54 | 23 | 0-1 |
| | | 15RB | | 1711.5 | 19965 | 22.25 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.25 | 23 | 0-1 |
| | | | | 1753.5 | 20385 | 22.48 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1711.5 | 19965 | 22.32 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.86 | 23 | 0-1 |
| | | | | 1753.5 | 20385 | 22.83 | 23 | 0-1 |
| | | | 7 | 1711.5 | 19965 | 22.64 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.80 | 23 | 0-1 |
| | | | | 1753.5 | 20385 | 22.62 | 23 | 0-1 |
| | | | 14 | 1711.5 | 19965 | 22.87 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.48 | 23 | 0-1 |
| | | | | 1753.5 | 20385 | 22.88 | 23 | 0-1 |
| | | 8 RB | 0 | 1711.5 | 19965 | 21.49 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.28 | 22 | 0-2 |
| | | | | 1753.5 | 20385 | 21.67 | 22 | 0-2 |
| | | | 4 | 1711.5 | 19965 | 21.29 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.29 | 22 | 0-2 |
| | | | | 1753.5 | 20385 | 21.68 | 22 | 0-2 |
| | | | 7 | 1711.5 | 19965 | 21.42 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.30 | 22 | 0-2 |
| | | | | 1753.5 | 20385 | 21.62 | 22 | 0-2 |
| | | 15RB | | 1711.5 | 19965 | 21.25 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.34 | 22 | 0-2 |
| | | | | 1753.5 | 20385 | 21.58 | 22 | 0-2 |

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| FDD Band 4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4 | QPSK | 1 RB | 0 | 1710.7 | 19957 | 23.41 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.34 | 24 | 0 |
| | | | | 1754.3 | 20393 | 23.60 | 24 | 0 |
| | | | 2 | 1710.7 | 19957 | 23.16 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.33 | 24 | 0 |
| | | | | 1754.3 | 20393 | 23.50 | 24 | 0 |
| | | | 5 | 1710.7 | 19957 | 23.31 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.51 | 24 | 0 |
| | | | | 1754.3 | 20393 | 23.64 | 24 | 0 |
| | | 3 RB | 0 | 1710.7 | 19957 | 23.24 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.37 | 24 | 0 |
| | | | | 1754.3 | 20393 | 23.63 | 24 | 0 |
| | | | 2 | 1710.7 | 19957 | 23.21 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.34 | 24 | 0 |
| | | | | 1754.3 | 20393 | 23.64 | 24 | 0 |
| | | | 3 | 1710.7 | 19957 | 23.28 | 24 | 0 |
| | | | | 1732.5 | 20175 | 23.41 | 24 | 0 |
| | | | | 1754.3 | 20393 | 23.46 | 24 | 0 |
| | | 6RB | | 1710.7 | 19957 | 22.29 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.39 | 23 | 0-1 |
| | | | | 1754.3 | 20393 | 22.64 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1710.7 | 19957 | 22.94 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.32 | 23 | 0-1 |
| | | | | 1754.3 | 20393 | 22.53 | 23 | 0-1 |
| | | | 2 | 1710.7 | 19957 | 22.66 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.38 | 23 | 0-1 |
| | | | | 1754.3 | 20393 | 22.59 | 23 | 0-1 |
| | | | 5 | 1710.7 | 19957 | 22.53 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.30 | 23 | 0-1 |
| | | | | 1754.3 | 20393 | 22.51 | 23 | 0-1 |
| | | 3 RB | 0 | 1710.7 | 19957 | 22.38 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.47 | 23 | 0-1 |
| | | | | 1754.3 | 20393 | 22.70 | 23 | 0-1 |
| | | | 2 | 1710.7 | 19957 | 22.33 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.49 | 23 | 0-1 |
| | | | | 1754.3 | 20393 | 22.81 | 23 | 0-1 |
| | | | 3 | 1710.7 | 19957 | 22.47 | 23 | 0-1 |
| | | | | 1732.5 | 20175 | 22.25 | 23 | 0-1 |
| | | | | 1754.3 | 20393 | 22.55 | 23 | 0-1 |
| | | 6RB | | 1710.7 | 19957 | 21.55 | 22 | 0-2 |
| | | | | 1732.5 | 20175 | 21.43 | 22 | 0-2 |
| | | | | 1754.3 | 20393 | 21.72 | 22 | 0-2 |

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| FDD Band 5 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 829 | 20450 | 24.67 | 25 | 0 |
| | | | | 836.5 | 20525 | 24.62 | 25 | 0 |
| | | | | 844 | 20600 | 24.35 | 25 | 0 |
| | | | 25 | 829 | 20450 | 24.64 | 25 | 0 |
| | | | | 836.5 | 20525 | 24.93 | 25 | 0 |
| | | | | 844 | 20600 | 24.71 | 25 | 0 |
| | | | 49 | 829 | 20450 | 24.69 | 25 | 0 |
| | | | | 836.5 | 20525 | 24.66 | 25 | 0 |
| | | | | 844 | 20600 | 24.57 | 25 | 0 |
| | | 25 RB | 0 | 829 | 20450 | 23.67 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.70 | 24 | 0-1 |
| | | | | 844 | 20600 | 23.60 | 24 | 0-1 |
| | | | 12 | 829 | 20450 | 23.71 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.78 | 24 | 0-1 |
| | | | | 844 | 20600 | 23.57 | 24 | 0-1 |
| | | | 25 | 829 | 20450 | 23.67 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.73 | 24 | 0-1 |
| | | | | 844 | 20600 | 23.70 | 24 | 0-1 |
| | | 50RB | | 829 | 20450 | 23.70 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.78 | 24 | 0-1 |
| | | | | 844 | 20600 | 23.63 | 24 | 0-1 |
| | 16-QAM | 1 RB | 0 | 829 | 20450 | 23.99 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.94 | 24 | 0-1 |
| | | | | 844 | 20600 | 23.42 | 24 | 0-1 |
| | | | 25 | 829 | 20450 | 23.96 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.92 | 24 | 0-1 |
| | | | | 844 | 20600 | 23.88 | 24 | 0-1 |
| | | | 49 | 829 | 20450 | 23.73 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.89 | 24 | 0-1 |
| | | | | 844 | 20600 | 23.88 | 24 | 0-1 |
| | | 25 RB | 0 | 829 | 20450 | 22.74 | 23 | 0-2 |
| | | | | 836.5 | 20525 | 22.77 | 23 | 0-2 |
| | | | | 844 | 20600 | 22.51 | 23 | 0-2 |
| | | | 12 | 829 | 20450 | 22.86 | 23 | 0-2 |
| | | | | 836.5 | 20525 | 22.73 | 23 | 0-2 |
| | | | | 844 | 20600 | 22.61 | 23 | 0-2 |
| | | | 25 | 829 | 20450 | 22.82 | 23 | 0-2 |
| | | | | 836.5 | 20525 | 22.78 | 23 | 0-2 |
| | | | | 844 | 20600 | 22.70 | 23 | 0-2 |
| | | 500RB | | 829 | 20450 | 22.69 | 23 | 0-2 |
| | | | | 836.5 | 20525 | 22.73 | 23 | 0-2 |
| | | | | 844 | 20600 | 22.68 | 23 | 0-2 |

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| FDD Band 5 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 826.5 | 20425 | 24.73 | 25 | 0 |
| | | | | 836.5 | 20525 | 24.57 | 25 | 0 |
| | | | | 846.5 | 20625 | 24.34 | 25 | 0 |
| | | | 12 | 826.5 | 20425 | 24.60 | 25 | 0 |
| | | | | 836.5 | 20525 | 24.69 | 25 | 0 |
| | | | | 846.5 | 20625 | 24.49 | 25 | 0 |
| | | | 24 | 826.5 | 20425 | 24.92 | 25 | 0 |
| | | | | 836.5 | 20525 | 24.61 | 25 | 0 |
| | | | | 846.5 | 20625 | 24.32 | 25 | 0 |
| | | 12 RB | 0 | 826.5 | 20425 | 23.79 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.83 | 24 | 0-1 |
| | | | | 846.5 | 20625 | 23.66 | 24 | 0-1 |
| | | | 6 | 826.5 | 20425 | 23.78 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.83 | 24 | 0-1 |
| | | | | 846.5 | 20625 | 23.57 | 24 | 0-1 |
| | | | 13 | 826.5 | 20425 | 23.77 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.83 | 24 | 0-1 |
| | | | | 846.5 | 20625 | 23.53 | 24 | 0-1 |
| | | 25RB | | 826.5 | 20425 | 23.80 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.83 | 24 | 0-1 |
| | | | | 846.5 | 20625 | 23.59 | 24 | 0-1 |
| | 16-QAM | 1 RB | 0 | 826.5 | 20425 | 23.76 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.33 | 24 | 0-1 |
| | | | | 846.5 | 20625 | 23.64 | 24 | 0-1 |
| | | | 12 | 826.5 | 20425 | 23.92 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.17 | 24 | 0-1 |
| | | | | 846.5 | 20625 | 23.98 | 24 | 0-1 |
| | | | 24 | 826.5 | 20425 | 23.18 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.94 | 24 | 0-1 |
| | | | | 846.5 | 20625 | 23.52 | 24 | 0-1 |
| | | 12 RB | 0 | 826.5 | 20425 | 22.81 | 23 | 0-2 |
| | | | | 836.5 | 20525 | 22.90 | 23 | 0-2 |
| | | | | 846.5 | 20625 | 22.58 | 23 | 0-2 |
| | | | 6 | 826.5 | 20425 | 22.79 | 23 | 0-2 |
| | | | | 836.5 | 20525 | 22.94 | 23 | 0-2 |
| | | | | 846.5 | 20625 | 22.73 | 23 | 0-2 |
| | | | 13 | 826.5 | 20425 | 22.82 | 23 | 0-2 |
| | | | | 836.5 | 20525 | 22.90 | 23 | 0-2 |
| | | | | 846.5 | 20625 | 22.66 | 23 | 0-2 |
| | | 25RB | | 826.5 | 20425 | 22.71 | 23 | 0-2 |
| | | | | 836.5 | 20525 | 22.85 | 23 | 0-2 |
| | | | | 846.5 | 20625 | 22.69 | 23 | 0-2 |

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| FDD Band 5 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3 | QPSK | 1 RB | 0 | 825.5 | 20415 | 24.57 | 25 | 0 |
| | | | | 836.5 | 20525 | 24.63 | 25 | 0 |
| | | | | 847.5 | 20635 | 24.38 | 25 | 0 |
| | | | 7 | 825.5 | 20415 | 24.53 | 25 | 0 |
| | | | | 836.5 | 20525 | 24.61 | 25 | 0 |
| | | | | 847.5 | 20635 | 24.40 | 25 | 0 |
| | | | 14 | 825.5 | 20415 | 24.54 | 25 | 0 |
| | | | | 836.5 | 20525 | 24.63 | 25 | 0 |
| | | | | 847.5 | 20635 | 24.42 | 25 | 0 |
| | | 8 RB | 0 | 825.5 | 20415 | 23.73 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.70 | 24 | 0-1 |
| | | | | 847.5 | 20635 | 23.46 | 24 | 0-1 |
| | | | 4 | 825.5 | 20415 | 23.67 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.72 | 24 | 0-1 |
| | | | | 847.5 | 20635 | 23.36 | 24 | 0-1 |
| | | | 7 | 825.5 | 20415 | 23.63 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.65 | 24 | 0-1 |
| | | | | 847.5 | 20635 | 23.44 | 24 | 0-1 |
| | | 15RB | | 825.5 | 20415 | 23.61 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.64 | 24 | 0-1 |
| | | | | 847.5 | 20635 | 23.52 | 24 | 0-1 |
| | 16-QAM | 1 RB | 0 | 825.5 | 20415 | 23.80 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.76 | 24 | 0-1 |
| | | | | 847.5 | 20635 | 23.52 | 24 | 0-1 |
| | | | 7 | 825.5 | 20415 | 23.62 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.97 | 24 | 0-1 |
| | | | | 847.5 | 20635 | 23.30 | 24 | 0-1 |
| | | | 14 | 825.5 | 20415 | 23.81 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.54 | 24 | 0-1 |
| | | | | 847.5 | 20635 | 23.39 | 24 | 0-1 |
| | | 8 RB | 0 | 825.5 | 20415 | 22.55 | 23 | 0-2 |
| | | | | 836.5 | 20525 | 22.62 | 23 | 0-2 |
| | | | | 847.5 | 20635 | 22.48 | 23 | 0-2 |
| | | | 4 | 825.5 | 20415 | 22.67 | 23 | 0-2 |
| | | | | 836.5 | 20525 | 22.54 | 23 | 0-2 |
| | | | | 847.5 | 20635 | 22.36 | 23 | 0-2 |
| | | | 7 | 825.5 | 20415 | 22.74 | 23 | 0-2 |
| | | | | 836.5 | 20525 | 22.68 | 23 | 0-2 |
| | | | | 847.5 | 20635 | 22.29 | 23 | 0-2 |
| | | 15RB | | 825.5 | 20415 | 22.71 | 23 | 0-2 |
| | | | | 836.5 | 20525 | 22.68 | 23 | 0-2 |
| | | | | 847.5 | 20635 | 22.41 | 23 | 0-2 |

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| FDD Band 5 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4 | QPSK | 1 RB | 0 | 824.7 | 20407 | 24.62 | 25 | 0 |
| | | | | 836.5 | 20525 | 24.66 | 25 | 0 |
| | | | | 848.3 | 20643 | 24.33 | 25 | 0 |
| | | | 2 | 824.7 | 20407 | 24.59 | 25 | 0 |
| | | | | 836.5 | 20525 | 24.56 | 25 | 0 |
| | | | | 848.3 | 20643 | 24.35 | 25 | 0 |
| | | | 5 | 824.7 | 20407 | 24.54 | 25 | 0 |
| | | | | 836.5 | 20525 | 24.50 | 25 | 0 |
| | | | | 848.3 | 20643 | 24.05 | 25 | 0 |
| | | 3 RB | 0 | 824.7 | 20407 | 24.60 | 25 | 0 |
| | | | | 836.5 | 20525 | 24.59 | 25 | 0 |
| | | | | 848.3 | 20643 | 24.36 | 25 | 0 |
| | | | 2 | 824.7 | 20407 | 24.61 | 25 | 0 |
| | | | | 836.5 | 20525 | 24.60 | 25 | 0 |
| | | | | 848.3 | 20643 | 24.22 | 25 | 0 |
| | | | 3 | 824.7 | 20407 | 24.65 | 25 | 0 |
| | | | | 836.5 | 20525 | 24.56 | 25 | 0 |
| | | | | 848.3 | 20643 | 24.23 | 25 | 0 |
| | | 6RB | | 824.7 | 20407 | 23.65 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.57 | 24 | 0-1 |
| | | | | 848.3 | 20643 | 23.36 | 24 | 0-1 |
| | 16-QAM | 1 RB | 0 | 824.7 | 20407 | 23.56 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.59 | 24 | 0-1 |
| | | | | 848.3 | 20643 | 23.56 | 24 | 0-1 |
| | | | 2 | 824.7 | 20407 | 23.80 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.91 | 24 | 0-1 |
| | | | | 848.3 | 20643 | 23.27 | 24 | 0-1 |
| | | | 5 | 824.7 | 20407 | 23.81 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.64 | 24 | 0-1 |
| | | | | 848.3 | 20643 | 23.84 | 24 | 0-1 |
| | | 3 RB | 0 | 824.7 | 20407 | 23.48 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.49 | 24 | 0-1 |
| | | | | 848.3 | 20643 | 23.17 | 24 | 0-1 |
| | | | 2 | 824.7 | 20407 | 23.76 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.64 | 24 | 0-1 |
| | | | | 848.3 | 20643 | 23.47 | 24 | 0-1 |
| | | | 3 | 824.7 | 20407 | 23.65 | 24 | 0-1 |
| | | | | 836.5 | 20525 | 23.61 | 24 | 0-1 |
| | | | | 848.3 | 20643 | 23.25 | 24 | 0-1 |
| | | 6RB | | 824.7 | 20407 | 22.67 | 23 | 0-2 |
| | | | | 836.5 | 20525 | 22.62 | 23 | 0-2 |
| | | | | 848.3 | 20643 | 22.17 | 23 | 0-2 |

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| FDD Band 7 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20 | QPSK | 1 RB | 0 | 2510 | 20850 | 23.79 | 24 | 0 |
| | | | | 2535 | 21100 | 23.14 | 24 | 0 |
| | | | | 2560 | 21350 | 23.98 | 24 | 0 |
| | | | 50 | 2510 | 20850 | 23.86 | 24 | 0 |
| | | | | 2535 | 21100 | 23.22 | 24 | 0 |
| | | | | 2560 | 21350 | 23.70 | 24 | 0 |
| | | | 99 | 2510 | 20850 | 23.36 | 24 | 0 |
| | | | | 2535 | 21100 | 23.42 | 24 | 0 |
| | | | | 2560 | 21350 | 23.85 | 24 | 0 |
| | | 50 RB | 0 | 2510 | 20850 | 22.50 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.40 | 23 | 0-1 |
| | | | | 2560 | 21350 | 22.84 | 23 | 0-1 |
| | | | 25 | 2510 | 20850 | 22.95 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.45 | 23 | 0-1 |
| | | | | 2560 | 21350 | 22.95 | 23 | 0-1 |
| | | | 50 | 2510 | 20850 | 22.91 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.39 | 23 | 0-1 |
| | | | | 2560 | 21350 | 22.93 | 23 | 0-1 |
| | | 100RB | | 2510 | 20850 | 22.52 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.48 | 23 | 0-1 |
| | | | | 2560 | 21350 | 22.56 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 2510 | 20850 | 22.95 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.50 | 23 | 0-1 |
| | | | | 2560 | 21350 | 22.02 | 23 | 0-1 |
| | | | 50 | 2510 | 20850 | 22.52 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.68 | 23 | 0-1 |
| | | | | 2560 | 21350 | 22.97 | 23 | 0-1 |
| | | | 99 | 2510 | 20850 | 22.36 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.95 | 23 | 0-1 |
| | | | | 2560 | 21350 | 22.73 | 23 | 0-1 |
| | | 50 RB | 0 | 2510 | 20850 | 21.16 | 22 | 0-2 |
| | | | | 2535 | 21100 | 21.49 | 22 | 0-2 |
| | | | | 2560 | 21350 | 21.05 | 22 | 0-2 |
| | | | 25 | 2510 | 20850 | 21.97 | 22 | 0-2 |
| | | | | 2535 | 21100 | 21.53 | 22 | 0-2 |
| | | | | 2560 | 21350 | 21.94 | 22 | 0-2 |
| | | | 50 | 2510 | 20850 | 21.88 | 22 | 0-2 |
| | | | | 2535 | 21100 | 21.43 | 22 | 0-2 |
| | | | | 2560 | 21350 | 21.85 | 22 | 0-2 |
| | | 100RB | | 2510 | 20850 | 21.12 | 22 | 0-2 |
| | | | | 2535 | 21100 | 21.57 | 22 | 0-2 |
| | | | | 2560 | 21350 | 21.01 | 22 | 0-2 |

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| FDD Band 7 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15 | QPSK | 1 RB | 0 | 2507.5 | 20825 | 23.97 | 24 | 0 |
| | | | | 2535 | 21100 | 23.22 | 24 | 0 |
| | | | | 2562.5 | 21375 | 23.87 | 24 | 0 |
| | | | 36 | 2507.5 | 20825 | 23.78 | 24 | 0 |
| | | | | 2535 | 21100 | 23.35 | 24 | 0 |
| | | | | 2562.5 | 21375 | 23.76 | 24 | 0 |
| | | | 74 | 2507.5 | 20825 | 23.70 | 24 | 0 |
| | | | | 2535 | 21100 | 23.50 | 24 | 0 |
| | | | | 2562.5 | 21375 | 23.61 | 24 | 0 |
| | | 36 RB | 0 | 2507.5 | 20825 | 22.20 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.43 | 23 | 0-1 |
| | | | | 2562.5 | 21375 | 22.91 | 23 | 0-1 |
| | | | 18 | 2507.5 | 20825 | 22.21 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.45 | 23 | 0-1 |
| | | | | 2562.5 | 21375 | 22.84 | 23 | 0-1 |
| | | | 37 | 2507.5 | 20825 | 22.11 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.33 | 23 | 0-1 |
| | | | | 2562.5 | 21375 | 22.84 | 23 | 0-1 |
| | | 75RB | | 2507.5 | 20825 | 22.25 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.43 | 23 | 0-1 |
| | | | | 2562.5 | 21375 | 22.88 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 2507.5 | 20825 | 22.82 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.30 | 23 | 0-1 |
| | | | | 2562.5 | 21375 | 22.20 | 23 | 0-1 |
| | | | 36 | 2507.5 | 20825 | 22.68 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.67 | 23 | 0-1 |
| | | | | 2562.5 | 21375 | 22.18 | 23 | 0-1 |
| | | | 74 | 2507.5 | 20825 | 22.46 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.71 | 23 | 0-1 |
| | | | | 2562.5 | 21375 | 22.22 | 23 | 0-1 |
| | | 36 RB | 0 | 2507.5 | 20825 | 21.18 | 22 | 0-2 |
| | | | | 2535 | 21100 | 21.38 | 22 | 0-2 |
| | | | | 2562.5 | 21375 | 21.96 | 22 | 0-2 |
| | | | 18 | 2507.5 | 20825 | 21.19 | 22 | 0-2 |
| | | | | 2535 | 21100 | 21.54 | 22 | 0-2 |
| | | | | 2562.5 | 21375 | 21.80 | 22 | 0-2 |
| | | | 37 | 2507.5 | 20825 | 21.08 | 22 | 0-2 |
| | | | | 2535 | 21100 | 21.43 | 22 | 0-2 |
| | | | | 2562.5 | 21375 | 21.85 | 22 | 0-2 |
| | | 75RB | | 2507.5 | 20825 | 21.22 | 22 | 0-2 |
| | | | | 2535 | 21100 | 21.44 | 22 | 0-2 |
| | | | | 2562.5 | 21375 | 21.83 | 22 | 0-2 |

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| FDD Band 7 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 2505 | 20800 | 23.67 | 24 | 0 |
| | | | | 2535 | 21100 | 23.22 | 24 | 0 |
| | | | | 2565 | 21400 | 23.47 | 24 | 0 |
| | | | 25 | 2505 | 20800 | 23.79 | 24 | 0 |
| | | | | 2535 | 21100 | 23.22 | 24 | 0 |
| | | | | 2565 | 21400 | 23.65 | 24 | 0 |
| | | | 49 | 2505 | 20800 | 23.69 | 24 | 0 |
| | | | | 2535 | 21100 | 23.24 | 24 | 0 |
| | | | | 2565 | 21400 | 23.52 | 24 | 0 |
| | | 25 RB | 0 | 2505 | 20800 | 22.15 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.34 | 23 | 0-1 |
| | | | | 2565 | 21400 | 22.76 | 23 | 0-1 |
| | | | 12 | 2505 | 20800 | 22.14 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.37 | 23 | 0-1 |
| | | | | 2565 | 21400 | 22.76 | 23 | 0-1 |
| | | | 25 | 2505 | 20800 | 22.13 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.39 | 23 | 0-1 |
| | | | | 2565 | 21400 | 22.77 | 23 | 0-1 |
| | | 50RB | | 2505 | 20800 | 22.18 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.34 | 23 | 0-1 |
| | | | | 2565 | 21400 | 22.75 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 2505 | 20800 | 22.81 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.55 | 23 | 0-1 |
| | | | | 2565 | 21400 | 22.96 | 23 | 0-1 |
| | | | 25 | 2505 | 20800 | 22.15 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.60 | 23 | 0-1 |
| | | | | 2565 | 21400 | 22.65 | 23 | 0-1 |
| | | | 49 | 2505 | 20800 | 22.33 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.66 | 23 | 0-1 |
| | | | | 2565 | 21400 | 22.86 | 23 | 0-1 |
| | | 25 RB | 0 | 2505 | 20800 | 21.20 | 22 | 0-2 |
| | | | | 2535 | 21100 | 21.42 | 22 | 0-2 |
| | | | | 2565 | 21400 | 21.85 | 22 | 0-2 |
| | | | 12 | 2505 | 20800 | 21.25 | 22 | 0-2 |
| | | | | 2535 | 21100 | 21.43 | 22 | 0-2 |
| | | | | 2565 | 21400 | 21.78 | 22 | 0-2 |
| | | | 25 | 2505 | 20800 | 21.03 | 22 | 0-2 |
| | | | | 2535 | 21100 | 21.44 | 22 | 0-2 |
| | | | | 2565 | 21400 | 21.87 | 22 | 0-2 |
| | | 50RB | | 2505 | 20800 | 21.10 | 22 | 0-2 |
| | | | | 2535 | 21100 | 21.44 | 22 | 0-2 |
| | | | | 2565 | 21400 | 21.74 | 22 | 0-2 |

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| FDD Band 7 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 2502.5 | 20775 | 23.88 | 24 | 0 |
| | | | | 2535 | 21100 | 23.31 | 24 | 0 |
| | | | | 2567.5 | 21425 | 23.69 | 24 | 0 |
| | | | 12 | 2502.5 | 20775 | 23.72 | 24 | 0 |
| | | | | 2535 | 21100 | 23.20 | 24 | 0 |
| | | | | 2567.5 | 21425 | 23.62 | 24 | 0 |
| | | | 24 | 2502.5 | 20775 | 23.80 | 24 | 0 |
| | | | | 2535 | 21100 | 23.16 | 24 | 0 |
| | | | | 2567.5 | 21425 | 23.49 | 24 | 0 |
| | | 12 RB | 0 | 2502.5 | 20775 | 22.94 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.16 | 23 | 0-1 |
| | | | | 2567.5 | 21425 | 22.58 | 23 | 0-1 |
| | | | 6 | 2502.5 | 20775 | 22.96 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.16 | 23 | 0-1 |
| | | | | 2567.5 | 21425 | 22.55 | 23 | 0-1 |
| | | | 13 | 2502.5 | 20775 | 22.96 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.09 | 23 | 0-1 |
| | | | | 2567.5 | 21425 | 22.59 | 23 | 0-1 |
| | | 25RB | | 2502.5 | 20775 | 22.73 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.15 | 23 | 0-1 |
| | | | | 2567.5 | 21425 | 22.57 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 2502.5 | 20775 | 22.70 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.19 | 23 | 0-1 |
| | | | | 2567.5 | 21425 | 22.84 | 23 | 0-1 |
| | | | 12 | 2502.5 | 20775 | 22.77 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.35 | 23 | 0-1 |
| | | | | 2567.5 | 21425 | 22.97 | 23 | 0-1 |
| | | | 24 | 2502.5 | 20775 | 22.28 | 23 | 0-1 |
| | | | | 2535 | 21100 | 22.63 | 23 | 0-1 |
| | | | | 2567.5 | 21425 | 22.02 | 23 | 0-1 |
| | | 12 RB | 0 | 2502.5 | 20775 | 21.86 | 22 | 0-2 |
| | | | | 2535 | 21100 | 21.18 | 22 | 0-2 |
| | | | | 2567.5 | 21425 | 21.57 | 22 | 0-2 |
| | | | 6 | 2502.5 | 20775 | 21.96 | 22 | 0-2 |
| | | | | 2535 | 21100 | 21.11 | 22 | 0-2 |
| | | | | 2567.5 | 21425 | 21.61 | 22 | 0-2 |
| | | | 13 | 2502.5 | 20775 | 21.97 | 22 | 0-2 |
| | | | | 2535 | 21100 | 21.17 | 22 | 0-2 |
| | | | | 2567.5 | 21425 | 21.52 | 22 | 0-2 |
| | | 25RB | | 2502.5 | 20775 | 21.91 | 22 | 0-2 |
| | | | | 2535 | 21100 | 21.18 | 22 | 0-2 |
| | | | | 2567.5 | 21425 | 21.53 | 22 | 0-2 |

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| FDD Band 12 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 704 | 23060 | 23.58 | 24 | 0 |
| | | | | 707.5 | 23095 | 23.59 | 24 | 0 |
| | | | | 711 | 23130 | 23.68 | 24 | 0 |
| | | | 25 | 704 | 23060 | 23.86 | 24 | 0 |
| | | | | 707.5 | 23095 | 23.98 | 24 | 0 |
| | | | | 711 | 23130 | 23.72 | 24 | 0 |
| | | | 49 | 704 | 23060 | 23.83 | 24 | 0 |
| | | | | 707.5 | 23095 | 23.61 | 24 | 0 |
| | | | | 711 | 23130 | 23.42 | 24 | 0 |
| | | 25 RB | 0 | 704 | 23060 | 22.68 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.80 | 23 | 0-1 |
| | | | | 711 | 23130 | 22.97 | 23 | 0-1 |
| | | | 12 | 704 | 23060 | 22.87 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.87 | 23 | 0-1 |
| | | | | 711 | 23130 | 22.75 | 23 | 0-1 |
| | | | 25 | 704 | 23060 | 22.91 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.87 | 23 | 0-1 |
| | | | | 711 | 23130 | 22.31 | 23 | 0-1 |
| | | 50RB | | 704 | 23060 | 22.90 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.85 | 23 | 0-1 |
| | | | | 711 | 23130 | 22.62 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 704 | 23060 | 22.80 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.73 | 23 | 0-1 |
| | | | | 711 | 23130 | 22.75 | 23 | 0-1 |
| | | | 25 | 704 | 23060 | 22.69 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.54 | 23 | 0-1 |
| | | | | 711 | 23130 | 22.34 | 23 | 0-1 |
| | | | 49 | 704 | 23060 | 22.46 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.99 | 23 | 0-1 |
| | | | | 711 | 23130 | 22.61 | 23 | 0-1 |
| | | 25 RB | 0 | 704 | 23060 | 21.74 | 22 | 0-2 |
| | | | | 707.5 | 23095 | 21.83 | 22 | 0-2 |
| | | | | 711 | 23130 | 21.64 | 22 | 0-2 |
| | | | 12 | 704 | 23060 | 21.81 | 22 | 0-2 |
| | | | | 707.5 | 23095 | 21.92 | 22 | 0-2 |
| | | | | 711 | 23130 | 21.22 | 22 | 0-2 |
| | | | 25 | 704 | 23060 | 21.57 | 22 | 0-2 |
| | | | | 707.5 | 23095 | 21.42 | 22 | 0-2 |
| | | | | 711 | 23130 | 21.30 | 22 | 0-2 |
| | | 50RB | | 704 | 23060 | 21.85 | 22 | 0-2 |
| | | | | 707.5 | 23095 | 21.94 | 22 | 0-2 |
| | | | | 711 | 23130 | 21.72 | 22 | 0-2 |

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| FDD Band 12 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 701.5 | 23035 | 23.21 | 24 | 0 |
| | | | | 707.5 | 23095 | 23.72 | 24 | 0 |
| | | | | 713.5 | 23155 | 23.96 | 24 | 0 |
| | | | 12 | 701.5 | 23035 | 23.56 | 24 | 0 |
| | | | | 707.5 | 23095 | 23.73 | 24 | 0 |
| | | | | 713.5 | 23155 | 23.93 | 24 | 0 |
| | | | 24 | 701.5 | 23035 | 23.72 | 24 | 0 |
| | | | | 707.5 | 23095 | 23.85 | 24 | 0 |
| | | | | 713.5 | 23155 | 23.54 | 24 | 0 |
| | | 12 RB | 0 | 701.5 | 23035 | 22.50 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.83 | 23 | 0-1 |
| | | | | 713.5 | 23155 | 22.54 | 23 | 0-1 |
| | | | 6 | 701.5 | 23035 | 22.61 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.89 | 23 | 0-1 |
| | | | | 713.5 | 23155 | 22.86 | 23 | 0-1 |
| | | | 13 | 701.5 | 23035 | 22.67 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.94 | 23 | 0-1 |
| | | | | 713.5 | 23155 | 22.76 | 23 | 0-1 |
| | | 25RB | | 701.5 | 23035 | 22.70 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.89 | 23 | 0-1 |
| | | | | 713.5 | 23155 | 22.65 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 701.5 | 23035 | 22.37 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.61 | 23 | 0-1 |
| | | | | 713.5 | 23155 | 22.45 | 23 | 0-1 |
| | | | 12 | 701.5 | 23035 | 22.71 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.84 | 23 | 0-1 |
| | | | | 713.5 | 23155 | 22.74 | 23 | 0-1 |
| | | | 24 | 701.5 | 23035 | 22.90 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.97 | 23 | 0-1 |
| | | | | 713.5 | 23155 | 22.31 | 23 | 0-1 |
| | | 12 RB | 0 | 701.5 | 23035 | 21.67 | 22 | 0-2 |
| | | | | 707.5 | 23095 | 21.90 | 22 | 0-2 |
| | | | | 713.5 | 23155 | 21.49 | 22 | 0-2 |
| | | | 6 | 701.5 | 23035 | 21.75 | 22 | 0-2 |
| | | | | 707.5 | 23095 | 22.00 | 22 | 0-2 |
| | | | | 713.5 | 23155 | 21.53 | 22 | 0-2 |
| | | | 13 | 701.5 | 23035 | 21.87 | 22 | 0-2 |
| | | | | 707.5 | 23095 | 21.67 | 22 | 0-2 |
| | | | | 713.5 | 23155 | 21.78 | 22 | 0-2 |
| | | 25RB | | 701.5 | 23035 | 21.73 | 22 | 0-2 |
| | | | | 707.5 | 23095 | 21.88 | 22 | 0-2 |
| | | | | 713.5 | 23155 | 21.68 | 22 | 0-2 |

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| FDD Band 12 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3 | QPSK | 1 RB | 0 | 700.5 | 23025 | 23.24 | 24 | 0 |
| | | | | 707.5 | 23095 | 23.60 | 24 | 0 |
| | | | | 714.5 | 23165 | 23.67 | 24 | 0 |
| | | | 7 | 700.5 | 23025 | 23.33 | 24 | 0 |
| | | | | 707.5 | 23095 | 23.70 | 24 | 0 |
| | | | | 714.5 | 23165 | 23.42 | 24 | 0 |
| | | | 14 | 700.5 | 23025 | 23.41 | 24 | 0 |
| | | | | 707.5 | 23095 | 23.70 | 24 | 0 |
| | | | | 714.5 | 23165 | 23.71 | 24 | 0 |
| | | 8 RB | 0 | 700.5 | 23025 | 22.28 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.70 | 23 | 0-1 |
| | | | | 714.5 | 23165 | 22.43 | 23 | 0-1 |
| | | | 4 | 700.5 | 23025 | 22.38 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.68 | 23 | 0-1 |
| | | | | 714.5 | 23165 | 22.52 | 23 | 0-1 |
| | | | 7 | 700.5 | 23025 | 22.48 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.75 | 23 | 0-1 |
| | | | | 714.5 | 23165 | 22.43 | 23 | 0-1 |
| | | 15RB | | 700.5 | 23025 | 22.37 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.80 | 23 | 0-1 |
| | | | | 714.5 | 23165 | 22.57 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 700.5 | 23025 | 22.45 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.73 | 23 | 0-1 |
| | | | | 714.5 | 23165 | 22.41 | 23 | 0-1 |
| | | | 7 | 700.5 | 23025 | 22.40 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.51 | 23 | 0-1 |
| | | | | 714.5 | 23165 | 22.40 | 23 | 0-1 |
| | | | 14 | 700.5 | 23025 | 22.36 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.47 | 23 | 0-1 |
| | | | | 714.5 | 23165 | 22.34 | 23 | 0-1 |
| | | 8 RB | 0 | 700.5 | 23025 | 21.29 | 22 | 0-2 |
| | | | | 707.5 | 23095 | 21.78 | 22 | 0-2 |
| | | | | 714.5 | 23165 | 21.63 | 22 | 0-2 |
| | | | 4 | 700.5 | 23025 | 21.49 | 22 | 0-2 |
| | | | | 707.5 | 23095 | 21.82 | 22 | 0-2 |
| | | | | 714.5 | 23165 | 21.42 | 22 | 0-2 |
| | | | 7 | 700.5 | 23025 | 21.57 | 22 | 0-2 |
| | | | | 707.5 | 23095 | 21.57 | 22 | 0-2 |
| | | | | 714.5 | 23165 | 21.21 | 22 | 0-2 |
| | | 15RB | | 700.5 | 23025 | 21.40 | 22 | 0-2 |
| | | | | 707.5 | 23095 | 21.86 | 22 | 0-2 |
| | | | | 714.5 | 23165 | 21.96 | 22 | 0-2 |

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| FDD Band 12 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4 | QPSK | 1 RB | 0 | 699.7 | 23017 | 23.31 | 24 | 0 |
| | | | | 707.5 | 23095 | 23.92 | 24 | 0 |
| | | | | 715.3 | 23173 | 23.92 | 24 | 0 |
| | | | 2 | 699.7 | 23017 | 23.31 | 24 | 0 |
| | | | | 707.5 | 23095 | 23.81 | 24 | 0 |
| | | | | 715.3 | 23173 | 23.53 | 24 | 0 |
| | | | 5 | 699.7 | 23017 | 23.43 | 24 | 0 |
| | | | | 707.5 | 23095 | 23.75 | 24 | 0 |
| | | | | 715.3 | 23173 | 23.65 | 24 | 0 |
| | | 3 RB | 0 | 699.7 | 23017 | 23.29 | 24 | 0 |
| | | | | 707.5 | 23095 | 23.74 | 24 | 0 |
| | | | | 715.3 | 23173 | 23.93 | 24 | 0 |
| | | | 2 | 699.7 | 23017 | 23.32 | 24 | 0 |
| | | | | 707.5 | 23095 | 23.73 | 24 | 0 |
| | | | | 715.3 | 23173 | 24.00 | 24 | 0 |
| | | | 3 | 699.7 | 23017 | 23.28 | 24 | 0 |
| | | | | 707.5 | 23095 | 23.76 | 24 | 0 |
| | | | | 715.3 | 23173 | 23.99 | 24 | 0 |
| | | 6RB | | 699.7 | 23017 | 22.35 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.78 | 23 | 0-1 |
| | | | | 715.3 | 23173 | 22.64 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 699.7 | 23017 | 22.56 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.89 | 23 | 0-1 |
| | | | | 715.3 | 23173 | 22.83 | 23 | 0-1 |
| | | | 2 | 699.7 | 23017 | 22.94 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.54 | 23 | 0-1 |
| | | | | 715.3 | 23173 | 22.47 | 23 | 0-1 |
| | | | 5 | 699.7 | 23017 | 22.63 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.95 | 23 | 0-1 |
| | | | | 715.3 | 23173 | 22.41 | 23 | 0-1 |
| | | 3 RB | 0 | 699.7 | 23017 | 22.16 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.66 | 23 | 0-1 |
| | | | | 715.3 | 23173 | 22.88 | 23 | 0-1 |
| | | | 2 | 699.7 | 23017 | 22.31 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.77 | 23 | 0-1 |
| | | | | 715.3 | 23173 | 22.92 | 23 | 0-1 |
| | | | 3 | 699.7 | 23017 | 22.47 | 23 | 0-1 |
| | | | | 707.5 | 23095 | 22.75 | 23 | 0-1 |
| | | | | 715.3 | 23173 | 22.89 | 23 | 0-1 |
| | | 6RB | | 699.7 | 23017 | 21.32 | 22 | 0-2 |
| | | | | 707.5 | 23095 | 21.70 | 22 | 0-2 |
| | | | | 715.3 | 23173 | 21.43 | 22 | 0-2 |

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| FDD Band 13 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 782 | 23230 | 23.77 | 24 | 0 |
| | | | 25 | 782 | 23230 | 23.95 | 24 | 0 |
| | | | 49 | 782 | 23230 | 23.45 | 24 | 0 |
| | | 25 RB | 0 | 782 | 23230 | 22.74 | 23 | 0-1 |
| | | | 12 | 782 | 23230 | 22.95 | 23 | 0-1 |
| | | | 25 | 782 | 23230 | 22.77 | 23 | 0-1 |
| | | 50RB | | 782 | 23230 | 22.97 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 782 | 23230 | 22.45 | 23 | 0-1 |
| | | | 25 | 782 | 23230 | 22.67 | 23 | 0-1 |
| | | | 49 | 782 | 23230 | 22.70 | 23 | 0-1 |
| | | 25 RB | 0 | 782 | 23230 | 21.96 | 22 | 0-2 |
| | | | 12 | 782 | 23230 | 21.52 | 22 | 0-2 |
| | | | 25 | 782 | 23230 | 21.46 | 22 | 0-2 |
| | | 50RB | | 782 | 23230 | 21.99 | 22 | 0-2 |

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| FDD Band 13 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 779.5 | 23205 | 23.61 | 24 | 0 |
| | | | | 782 | 23230 | 23.58 | 24 | 0 |
| | | | | 784.5 | 23255 | 23.81 | 24 | 0 |
| | | | 12 | 779.5 | 23205 | 23.60 | 24 | 0 |
| | | | | 782 | 23230 | 23.63 | 24 | 0 |
| | | | | 784.5 | 23255 | 23.70 | 24 | 0 |
| | | | 24 | 779.5 | 23205 | 23.83 | 24 | 0 |
| | | | | 782 | 23230 | 23.71 | 24 | 0 |
| | | | | 784.5 | 23255 | 23.88 | 24 | 0 |
| | | 12 RB | 0 | 779.5 | 23205 | 22.60 | 23 | 0-1 |
| | | | | 782 | 23230 | 22.55 | 23 | 0-1 |
| | | | | 784.5 | 23255 | 22.84 | 23 | 0-1 |
| | | | 6 | 779.5 | 23205 | 22.60 | 23 | 0-1 |
| | | | | 782 | 23230 | 22.68 | 23 | 0-1 |
| | | | | 784.5 | 23255 | 22.82 | 23 | 0-1 |
| | | | 13 | 779.5 | 23205 | 22.69 | 23 | 0-1 |
| | | | | 782 | 23230 | 22.85 | 23 | 0-1 |
| | | | | 784.5 | 23255 | 22.92 | 23 | 0-1 |
| | | 25RB | | 779.5 | 23205 | 22.66 | 23 | 0-1 |
| | | | | 782 | 23230 | 22.71 | 23 | 0-1 |
| | | | | 784.5 | 23255 | 22.82 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 779.5 | 23205 | 22.97 | 23 | 0-1 |
| | | | | 782 | 23230 | 22.81 | 23 | 0-1 |
| | | | | 784.5 | 23255 | 22.82 | 23 | 0-1 |
| | | | 12 | 779.5 | 23205 | 22.76 | 23 | 0-1 |
| | | | | 782 | 23230 | 22.62 | 23 | 0-1 |
| | | | | 784.5 | 23255 | 22.78 | 23 | 0-1 |
| | | | 24 | 779.5 | 23205 | 22.93 | 23 | 0-1 |
| | | | | 782 | 23230 | 22.36 | 23 | 0-1 |
| | | | | 784.5 | 23255 | 22.42 | 23 | 0-1 |
| | | 12 RB | 0 | 779.5 | 23205 | 21.65 | 22 | 0-2 |
| | | | | 782 | 23230 | 21.67 | 22 | 0-2 |
| | | | | 784.5 | 23255 | 21.82 | 22 | 0-2 |
| | | | 6 | 779.5 | 23205 | 21.69 | 22 | 0-2 |
| | | | | 782 | 23230 | 21.67 | 22 | 0-2 |
| | | | | 784.5 | 23255 | 21.89 | 22 | 0-2 |
| | | | 13 | 779.5 | 23205 | 21.64 | 22 | 0-2 |
| | | | | 782 | 23230 | 21.91 | 22 | 0-2 |
| | | | | 784.5 | 23255 | 21.99 | 22 | 0-2 |
| | | 25RB | | 779.5 | 23205 | 21.63 | 22 | 0-2 |
| | | | | 782 | 23230 | 21.76 | 22 | 0-2 |
| | | | | 784.5 | 23255 | 21.89 | 22 | 0-2 |

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| FDD Band 14 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 793 | 23330 | 23.97 | 24 | 0 |
| | | | 25 | 793 | 23330 | 23.69 | 24 | 0 |
| | | | 49 | 793 | 23330 | 23.61 | 24 | 0 |
| | | 25 RB | 0 | 793 | 23330 | 22.82 | 23 | 0-1 |
| | | | 12 | 793 | 23330 | 22.76 | 23 | 0-1 |
| | | | 25 | 793 | 23330 | 22.84 | 23 | 0-1 |
| | | 50RB | | 793 | 23330 | 22.77 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 793 | 23330 | 22.98 | 23 | 0-1 |
| | | | 25 | 793 | 23330 | 22.82 | 23 | 0-1 |
| | | | 49 | 793 | 23330 | 22.49 | 23 | 0-1 |
| | | 25 RB | 0 | 793 | 23330 | 21.84 | 22 | 0-2 |
| | | | 12 | 793 | 23330 | 21.75 | 22 | 0-2 |
| | | | 25 | 793 | 23330 | 21.83 | 22 | 0-2 |
| | | 50RB | | 793 | 23330 | 21.73 | 22 | 0-2 |

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| FDD Band 14 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 790.5 | 23305 | 23.62 | 24 | 0 |
| | | | | 793 | 23330 | 23.52 | 24 | 0 |
| | | | | 795.5 | 23355 | 23.47 | 24 | 0 |
| | | | 12 | 790.5 | 23305 | 23.36 | 24 | 0 |
| | | | | 793 | 23330 | 23.61 | 24 | 0 |
| | | | | 795.5 | 23355 | 23.57 | 24 | 0 |
| | | | 24 | 790.5 | 23305 | 23.66 | 24 | 0 |
| | | | | 793 | 23330 | 23.51 | 24 | 0 |
| | | | | 795.5 | 23355 | 22.58 | 24 | 0 |
| | | 12 RB | 0 | 790.5 | 23305 | 22.65 | 23 | 0-1 |
| | | | | 793 | 23330 | 22.64 | 23 | 0-1 |
| | | | | 795.5 | 23355 | 22.56 | 23 | 0-1 |
| | | | 6 | 790.5 | 23305 | 22.52 | 23 | 0-1 |
| | | | | 793 | 23330 | 22.63 | 23 | 0-1 |
| | | | | 795.5 | 23355 | 22.60 | 23 | 0-1 |
| | | | 13 | 790.5 | 23305 | 22.62 | 23 | 0-1 |
| | | | | 793 | 23330 | 22.57 | 23 | 0-1 |
| | | | | 795.5 | 23355 | 22.67 | 23 | 0-1 |
| | | 25RB | | 790.5 | 23305 | 22.69 | 23 | 0-1 |
| | | | | 793 | 23330 | 22.72 | 23 | 0-1 |
| | | | | 795.5 | 23355 | 22.81 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 790.5 | 23305 | 22.72 | 23 | 0-1 |
| | | | | 793 | 23330 | 22.92 | 23 | 0-1 |
| | | | | 795.5 | 23355 | 22.64 | 23 | 0-1 |
| | | | 12 | 790.5 | 23305 | 22.83 | 23 | 0-1 |
| | | | | 793 | 23330 | 22.84 | 23 | 0-1 |
| | | | | 795.5 | 23355 | 22.62 | 23 | 0-1 |
| | | | 24 | 790.5 | 23305 | 22.84 | 23 | 0-1 |
| | | | | 793 | 23330 | 22.81 | 23 | 0-1 |
| | | | | 795.5 | 23355 | 21.61 | 23 | 0-1 |
| | | 12 RB | 0 | 790.5 | 23305 | 21.56 | 22 | 0-2 |
| | | | | 793 | 23330 | 21.77 | 22 | 0-2 |
| | | | | 795.5 | 23355 | 21.56 | 22 | 0-2 |
| | | | 6 | 790.5 | 23305 | 21.54 | 22 | 0-2 |
| | | | | 793 | 23330 | 21.83 | 22 | 0-2 |
| | | | | 795.5 | 23355 | 21.54 | 22 | 0-2 |
| | | | 13 | 790.5 | 23305 | 21.63 | 22 | 0-2 |
| | | | | 793 | 23330 | 21.67 | 22 | 0-2 |
| | | | | 795.5 | 23355 | 21.64 | 22 | 0-2 |
| | | 25RB | | 790.5 | 23305 | 21.65 | 22 | 0-2 |
| | | | | 793 | 23330 | 21.69 | 22 | 0-2 |
| | | | | 795.5 | 23355 | 21.73 | 22 | 0-2 |

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| FDD Band 17 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 709 | 23780 | 23.69 | 24 | 0 |
| | | | | 710 | 23790 | 23.66 | 24 | 0 |
| | | | | 711 | 23800 | 23.98 | 24 | 0 |
| | | | 25 | 709 | 23780 | 23.77 | 24 | 0 |
| | | | | 710 | 23790 | 23.12 | 24 | 0 |
| | | | | 711 | 23800 | 23.88 | 24 | 0 |
| | | | 49 | 709 | 23780 | 23.84 | 24 | 0 |
| | | | | 710 | 23790 | 23.77 | 24 | 0 |
| | | | | 711 | 23800 | 22.84 | 24 | 0 |
| | | 25 RB | 0 | 709 | 23780 | 22.84 | 23 | 0-1 |
| | | | | 710 | 23790 | 22.93 | 23 | 0-1 |
| | | | | 711 | 23800 | 22.89 | 23 | 0-1 |
| | | | 12 | 709 | 23780 | 22.90 | 23 | 0-1 |
| | | | | 710 | 23790 | 22.38 | 23 | 0-1 |
| | | | | 711 | 23800 | 22.47 | 23 | 0-1 |
| | | | 25 | 709 | 23780 | 22.59 | 23 | 0-1 |
| | | | | 710 | 23790 | 22.21 | 23 | 0-1 |
| | | | | 711 | 23800 | 22.94 | 23 | 0-1 |
| | | 50RB | | 709 | 23780 | 22.75 | 23 | 0-1 |
| | | | | 710 | 23790 | 22.85 | 23 | 0-1 |
| | | | | 711 | 23800 | 22.97 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 709 | 23780 | 22.80 | 23 | 0-1 |
| | | | | 710 | 23790 | 22.84 | 23 | 0-1 |
| | | | | 711 | 23800 | 22.90 | 23 | 0-1 |
| | | | 25 | 709 | 23780 | 22.75 | 23 | 0-1 |
| | | | | 710 | 23790 | 22.77 | 23 | 0-1 |
| | | | | 711 | 23800 | 22.77 | 23 | 0-1 |
| | | | 49 | 709 | 23780 | 22.58 | 23 | 0-1 |
| | | | | 710 | 23790 | 22.64 | 23 | 0-1 |
| | | | | 711 | 23800 | 21.86 | 23 | 0-1 |
| | | 25 RB | 0 | 709 | 23780 | 21.97 | 22 | 0-2 |
| | | | | 710 | 23790 | 21.91 | 22 | 0-2 |
| | | | | 711 | 23800 | 21.98 | 22 | 0-2 |
| | | | 12 | 709 | 23780 | 21.83 | 22 | 0-2 |
| | | | | 710 | 23790 | 21.77 | 22 | 0-2 |
| | | | | 711 | 23800 | 21.56 | 22 | 0-2 |
| | | | 25 | 709 | 23780 | 21.63 | 22 | 0-2 |
| | | | | 710 | 23790 | 21.75 | 22 | 0-2 |
| | | | | 711 | 23800 | 21.91 | 22 | 0-2 |
| | | 50RB | | 709 | 23780 | 21.75 | 22 | 0-2 |
| | | | | 710 | 23790 | 21.42 | 22 | 0-2 |
| | | | | 711 | 23800 | 21.64 | 22 | 0-2 |

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| FDD Band 17 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 706.5 | 23755 | 23.57 | 24 | 0 |
| | | | | 710 | 23790 | 23.96 | 24 | 0 |
| | | | | 713.5 | 23825 | 23.69 | 24 | 0 |
| | | | 12 | 706.5 | 23755 | 23.80 | 24 | 0 |
| | | | | 710 | 23790 | 23.93 | 24 | 0 |
| | | | | 713.5 | 23825 | 23.92 | 24 | 0 |
| | | | 24 | 706.5 | 23755 | 23.74 | 24 | 0 |
| | | | | 710 | 23790 | 23.81 | 24 | 0 |
| | | | | 713.5 | 23825 | 22.91 | 24 | 0 |
| | | 12 RB | 0 | 706.5 | 23755 | 22.81 | 23 | 0-1 |
| | | | | 710 | 23790 | 22.93 | 23 | 0-1 |
| | | | | 713.5 | 23825 | 22.86 | 23 | 0-1 |
| | | | 6 | 706.5 | 23755 | 22.73 | 23 | 0-1 |
| | | | | 710 | 23790 | 22.70 | 23 | 0-1 |
| | | | | 713.5 | 23825 | 22.87 | 23 | 0-1 |
| | | | 13 | 706.5 | 23755 | 22.88 | 23 | 0-1 |
| | | | | 710 | 23790 | 22.68 | 23 | 0-1 |
| | | | | 713.5 | 23825 | 22.78 | 23 | 0-1 |
| | | 25RB | | 706.5 | 23755 | 22.82 | 23 | 0-1 |
| | | | | 710 | 23790 | 22.41 | 23 | 0-1 |
| | | | | 713.5 | 23825 | 22.67 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 706.5 | 23755 | 22.54 | 23 | 0-1 |
| | | | | 710 | 23790 | 22.37 | 23 | 0-1 |
| | | | | 713.5 | 23825 | 22.84 | 23 | 0-1 |
| | | | 12 | 706.5 | 23755 | 22.68 | 23 | 0-1 |
| | | | | 710 | 23790 | 22.82 | 23 | 0-1 |
| | | | | 713.5 | 23825 | 22.85 | 23 | 0-1 |
| | | | 24 | 706.5 | 23755 | 22.97 | 23 | 0-1 |
| | | | | 710 | 23790 | 22.43 | 23 | 0-1 |
| | | | | 713.5 | 23825 | 21.78 | 23 | 0-1 |
| | | 12 RB | 0 | 706.5 | 23755 | 21.74 | 22 | 0-2 |
| | | | | 710 | 23790 | 21.96 | 22 | 0-2 |
| | | | | 713.5 | 23825 | 21.84 | 22 | 0-2 |
| | | | 6 | 706.5 | 23755 | 21.99 | 22 | 0-2 |
| | | | | 710 | 23790 | 21.52 | 22 | 0-2 |
| | | | | 713.5 | 23825 | 21.84 | 22 | 0-2 |
| | | | 13 | 706.5 | 23755 | 21.49 | 22 | 0-2 |
| | | | | 710 | 23790 | 21.75 | 22 | 0-2 |
| | | | | 713.5 | 23825 | 21.86 | 22 | 0-2 |
| | | 25RB | | 706.5 | 23755 | 21.63 | 22 | 0-2 |
| | | | | 710 | 23790 | 21.77 | 22 | 0-2 |
| | | | | 713.5 | 23825 | 21.45 | 22 | 0-2 |

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| FDD Band 25 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20 | QPSK | 1 RB | 0 | 1860 | 26140 | 23.95 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.96 | 24 | 0 |
| | | | | 1905 | 26590 | 23.79 | 24 | 0 |
| | | | 50 | 1860 | 26140 | 23.97 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.92 | 24 | 0 |
| | | | | 1905 | 26590 | 23.92 | 24 | 0 |
| | | | 99 | 1860 | 26140 | 23.84 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.83 | 24 | 0 |
| | | | | 1905 | 26590 | 23.83 | 24 | 0 |
| | | 50 RB | 0 | 1860 | 26140 | 22.95 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.83 | 23 | 0-1 |
| | | | | 1905 | 26590 | 22.82 | 23 | 0-1 |
| | | | 25 | 1860 | 26140 | 22.87 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.94 | 23 | 0-1 |
| | | | | 1905 | 26590 | 22.93 | 23 | 0-1 |
| | | | 50 | 1860 | 26140 | 22.88 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.97 | 23 | 0-1 |
| | | | | 1905 | 26590 | 22.82 | 23 | 0-1 |
| | | 100RB | | 1860 | 26140 | 22.96 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.92 | 23 | 0-1 |
| | | | | 1905 | 26590 | 22.80 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1860 | 26140 | 22.88 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.87 | 23 | 0-1 |
| | | | | 1905 | 26590 | 22.83 | 23 | 0-1 |
| | | | 50 | 1860 | 26140 | 22.97 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.80 | 23 | 0-1 |
| | | | | 1905 | 26590 | 22.85 | 23 | 0-1 |
| | | | 99 | 1860 | 26140 | 22.87 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.80 | 23 | 0-1 |
| | | | | 1905 | 26590 | 22.80 | 23 | 0-1 |
| | | 50 RB | 0 | 1860 | 26140 | 21.90 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.92 | 22 | 0-2 |
| | | | | 1905 | 26590 | 21.93 | 22 | 0-2 |
| | | | 25 | 1860 | 26140 | 21.93 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.93 | 22 | 0-2 |
| | | | | 1905 | 26590 | 21.81 | 22 | 0-2 |
| | | | 50 | 1860 | 26140 | 21.82 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.95 | 22 | 0-2 |
| | | | | 1905 | 26590 | 21.81 | 22 | 0-2 |
| | | 100RB | | 1860 | 26140 | 21.80 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.80 | 22 | 0-2 |
| | | | | 1905 | 26590 | 21.81 | 22 | 0-2 |

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| FDD Band 25 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15 | QPSK | 1 RB | 0 | 1857.5 | 26115 | 23.83 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.93 | 24 | 0 |
| | | | | 1907.5 | 26615 | 23.88 | 24 | 0 |
| | | | 36 | 1857.5 | 26115 | 23.81 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.92 | 24 | 0 |
| | | | | 1907.5 | 26615 | 23.94 | 24 | 0 |
| | | | 74 | 1857.5 | 26115 | 23.94 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.92 | 24 | 0 |
| | | | | 1907.5 | 26615 | 23.93 | 24 | 0 |
| | | 36 RB | 0 | 1857.5 | 26115 | 22.80 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.85 | 23 | 0-1 |
| | | | | 1907.5 | 26615 | 22.97 | 23 | 0-1 |
| | | | 18 | 1857.5 | 26115 | 22.96 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.94 | 23 | 0-1 |
| | | | | 1907.5 | 26615 | 22.83 | 23 | 0-1 |
| | | | 37 | 1857.5 | 26115 | 22.97 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.87 | 23 | 0-1 |
| | | | | 1907.5 | 26615 | 22.94 | 23 | 0-1 |
| | | 75RB | | 1857.5 | 26115 | 22.88 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.87 | 23 | 0-1 |
| | | | | 1907.5 | 26615 | 22.79 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1857.5 | 26115 | 22.93 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.89 | 23 | 0-1 |
| | | | | 1907.5 | 26615 | 22.92 | 23 | 0-1 |
| | | | 36 | 1857.5 | 26115 | 22.93 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.86 | 23 | 0-1 |
| | | | | 1907.5 | 26615 | 22.87 | 23 | 0-1 |
| | | | 74 | 1857.5 | 26115 | 22.88 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.92 | 23 | 0-1 |
| | | | | 1907.5 | 26615 | 22.95 | 23 | 0-1 |
| | | 36 RB | 0 | 1857.5 | 26115 | 21.86 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.99 | 22 | 0-2 |
| | | | | 1907.5 | 26615 | 21.98 | 22 | 0-2 |
| | | | 18 | 1857.5 | 26115 | 21.97 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.98 | 22 | 0-2 |
| | | | | 1907.5 | 26615 | 21.80 | 22 | 0-2 |
| | | | 37 | 1857.5 | 26115 | 21.98 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.80 | 22 | 0-2 |
| | | | | 1907.5 | 26615 | 21.97 | 22 | 0-2 |
| | | 75RB | | 1857.5 | 26115 | 21.89 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.82 | 22 | 0-2 |
| | | | | 1907.5 | 26615 | 21.92 | 22 | 0-2 |

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| FDD Band 25 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 1855 | 26090 | 23.84 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.84 | 24 | 0 |
| | | | | 1910 | 26640 | 23.84 | 24 | 0 |
| | | | 25 | 1855 | 26090 | 23.87 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.94 | 24 | 0 |
| | | | | 1910 | 26640 | 23.82 | 24 | 0 |
| | | | 49 | 1855 | 26090 | 23.84 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.90 | 24 | 0 |
| | | | | 1910 | 26640 | 23.90 | 24 | 0 |
| | | 25 RB | 0 | 1855 | 26090 | 22.82 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.89 | 23 | 0-1 |
| | | | | 1910 | 26640 | 22.99 | 23 | 0-1 |
| | | | 12 | 1855 | 26090 | 22.94 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.93 | 23 | 0-1 |
| | | | | 1910 | 26640 | 22.97 | 23 | 0-1 |
| | | | 25 | 1855 | 26090 | 22.95 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.97 | 23 | 0-1 |
| | | | | 1910 | 26640 | 22.98 | 23 | 0-1 |
| | | 50RB | | 1855 | 26090 | 22.89 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.83 | 23 | 0-1 |
| | | | | 1910 | 26640 | 22.94 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1855 | 26090 | 22.81 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.83 | 23 | 0-1 |
| | | | | 1910 | 26640 | 22.83 | 23 | 0-1 |
| | | | 25 | 1855 | 26090 | 22.84 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.91 | 23 | 0-1 |
| | | | | 1910 | 26640 | 22.95 | 23 | 0-1 |
| | | | 49 | 1855 | 26090 | 22.84 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.98 | 23 | 0-1 |
| | | | | 1910 | 26640 | 22.90 | 23 | 0-1 |
| | | 25 RB | 0 | 1855 | 26090 | 21.99 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.92 | 22 | 0-2 |
| | | | | 1910 | 26640 | 21.81 | 22 | 0-2 |
| | | | 12 | 1855 | 26090 | 21.80 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.83 | 22 | 0-2 |
| | | | | 1910 | 26640 | 21.88 | 22 | 0-2 |
| | | | 25 | 1855 | 26090 | 21.79 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.82 | 22 | 0-2 |
| | | | | 1910 | 26640 | 21.80 | 22 | 0-2 |
| | | 50RB | | 1855 | 26090 | 21.84 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.87 | 22 | 0-2 |
| | | | | 1910 | 26640 | 21.95 | 22 | 0-2 |

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| FDD Band 25 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 1852.5 | 26065 | 23.95 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.91 | 24 | 0 |
| | | | | 1912.5 | 26665 | 23.90 | 24 | 0 |
| | | | 12 | 1852.5 | 26065 | 23.83 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.91 | 24 | 0 |
| | | | | 1912.5 | 26665 | 23.95 | 24 | 0 |
| | | | 24 | 1852.5 | 26065 | 23.90 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.92 | 24 | 0 |
| | | | | 1912.5 | 26665 | 23.87 | 24 | 0 |
| | | 12 RB | 0 | 1852.5 | 26065 | 22.90 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.91 | 23 | 0-1 |
| | | | | 1912.5 | 26665 | 22.90 | 23 | 0-1 |
| | | | 6 | 1852.5 | 26065 | 22.92 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.98 | 23 | 0-1 |
| | | | | 1912.5 | 26665 | 22.89 | 23 | 0-1 |
| | | | 13 | 1852.5 | 26065 | 22.81 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.99 | 23 | 0-1 |
| | | | | 1912.5 | 26665 | 22.92 | 23 | 0-1 |
| | | 25RB | | 1852.5 | 26065 | 22.90 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.84 | 23 | 0-1 |
| | | | | 1912.5 | 26665 | 22.79 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1852.5 | 26065 | 22.89 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.92 | 23 | 0-1 |
| | | | | 1912.5 | 26665 | 22.80 | 23 | 0-1 |
| | | | 12 | 1852.5 | 26065 | 22.82 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.90 | 23 | 0-1 |
| | | | | 1912.5 | 26665 | 22.84 | 23 | 0-1 |
| | | | 24 | 1852.5 | 26065 | 22.99 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.80 | 23 | 0-1 |
| | | | | 1912.5 | 26665 | 22.94 | 23 | 0-1 |
| | | 12 RB | 0 | 1852.5 | 26065 | 21.92 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.88 | 22 | 0-2 |
| | | | | 1912.5 | 26665 | 21.95 | 22 | 0-2 |
| | | | 6 | 1852.5 | 26065 | 21.88 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.91 | 22 | 0-2 |
| | | | | 1912.5 | 26665 | 21.92 | 22 | 0-2 |
| | | | 13 | 1852.5 | 26065 | 21.98 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.85 | 22 | 0-2 |
| | | | | 1912.5 | 26665 | 21.94 | 22 | 0-2 |
| | | 25RB | | 1852.5 | 26065 | 21.88 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.92 | 22 | 0-2 |
| | | | | 1912.5 | 26665 | 21.95 | 22 | 0-2 |

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| FDD Band 25 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3 | QPSK | 1 RB | 0 | 1851.5 | 26055 | 23.83 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.94 | 24 | 0 |
| | | | | 1913.5 | 26675 | 23.87 | 24 | 0 |
| | | | 7 | 1851.5 | 26055 | 23.92 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.91 | 24 | 0 |
| | | | | 1913.5 | 26675 | 23.89 | 24 | 0 |
| | | | 14 | 1851.5 | 26055 | 23.87 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.90 | 24 | 0 |
| | | | | 1913.5 | 26675 | 23.88 | 24 | 0 |
| | | 8 RB | 0 | 1851.5 | 26055 | 22.96 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.98 | 23 | 0-1 |
| | | | | 1913.5 | 26675 | 22.86 | 23 | 0-1 |
| | | | 4 | 1851.5 | 26055 | 22.90 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.80 | 23 | 0-1 |
| | | | | 1913.5 | 26675 | 22.85 | 23 | 0-1 |
| | | | 7 | 1851.5 | 26055 | 22.82 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.79 | 23 | 0-1 |
| | | | | 1913.5 | 26675 | 22.80 | 23 | 0-1 |
| | | 15RB | | 1851.5 | 26055 | 22.96 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.85 | 23 | 0-1 |
| | | | | 1913.5 | 26675 | 22.84 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1851.5 | 26055 | 22.79 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.92 | 23 | 0-1 |
| | | | | 1913.5 | 26675 | 22.91 | 23 | 0-1 |
| | | | 7 | 1851.5 | 26055 | 22.97 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.81 | 23 | 0-1 |
| | | | | 1913.5 | 26675 | 22.99 | 23 | 0-1 |
| | | | 14 | 1851.5 | 26055 | 22.92 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.85 | 23 | 0-1 |
| | | | | 1913.5 | 26675 | 22.85 | 23 | 0-1 |
| | | 8 RB | 0 | 1851.5 | 26055 | 21.95 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.91 | 22 | 0-2 |
| | | | | 1913.5 | 26675 | 21.92 | 22 | 0-2 |
| | | | 4 | 1851.5 | 26055 | 21.85 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.94 | 22 | 0-2 |
| | | | | 1913.5 | 26675 | 21.81 | 22 | 0-2 |
| | | | 7 | 1851.5 | 26055 | 21.83 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.93 | 22 | 0-2 |
| | | | | 1913.5 | 26675 | 21.94 | 22 | 0-2 |
| | | 15RB | | 1851.5 | 26055 | 21.85 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.90 | 22 | 0-2 |
| | | | | 1913.5 | 26675 | 21.99 | 22 | 0-2 |

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| FDD Band 25 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4 | QPSK | 1 RB | 0 | 1850.7 | 26047 | 23.85 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.95 | 24 | 0 |
| | | | | 1914.3 | 26683 | 23.83 | 24 | 0 |
| | | | 2 | 1850.7 | 26047 | 23.88 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.83 | 24 | 0 |
| | | | | 1914.3 | 26683 | 23.80 | 24 | 0 |
| | | | 5 | 1850.7 | 26047 | 23.83 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.95 | 24 | 0 |
| | | | | 1914.3 | 26683 | 23.87 | 24 | 0 |
| | | 3 RB | 0 | 1850.7 | 26047 | 23.93 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.86 | 24 | 0 |
| | | | | 1914.3 | 26683 | 23.98 | 24 | 0 |
| | | | 2 | 1850.7 | 26047 | 23.90 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.92 | 24 | 0 |
| | | | | 1914.3 | 26683 | 23.79 | 24 | 0 |
| | | | 3 | 1850.7 | 26047 | 23.97 | 24 | 0 |
| | | | | 1882.5 | 26365 | 23.98 | 24 | 0 |
| | | | | 1914.3 | 26683 | 23.91 | 24 | 0 |
| | | 6RB | | 1850.7 | 26047 | 22.94 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.96 | 23 | 0-1 |
| | | | | 1914.3 | 26683 | 22.92 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1850.7 | 26047 | 22.93 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.81 | 23 | 0-1 |
| | | | | 1914.3 | 26683 | 22.94 | 23 | 0-1 |
| | | | 2 | 1850.7 | 26047 | 22.82 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.88 | 23 | 0-1 |
| | | | | 1914.3 | 26683 | 22.85 | 23 | 0-1 |
| | | | 5 | 1850.7 | 26047 | 22.88 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.87 | 23 | 0-1 |
| | | | | 1914.3 | 26683 | 22.91 | 23 | 0-1 |
| | | 3 RB | 0 | 1850.7 | 26047 | 22.97 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.91 | 23 | 0-1 |
| | | | | 1914.3 | 26683 | 22.90 | 23 | 0-1 |
| | | | 2 | 1850.7 | 26047 | 22.93 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.83 | 23 | 0-1 |
| | | | | 1914.3 | 26683 | 22.98 | 23 | 0-1 |
| | | | 3 | 1850.7 | 26047 | 22.98 | 23 | 0-1 |
| | | | | 1882.5 | 26365 | 22.84 | 23 | 0-1 |
| | | | | 1914.3 | 26683 | 22.86 | 23 | 0-1 |
| | | 6RB | | 1850.7 | 26047 | 21.89 | 22 | 0-2 |
| | | | | 1882.5 | 26365 | 21.81 | 22 | 0-2 |
| | | | | 1914.3 | 26683 | 21.84 | 22 | 0-2 |

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| FDD Band 26 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15 | QPSK | 1 RB | 0 | 822.5 | 26825 | 24.16 | 25 | 0 |
| | | | | 831.5 | 26865 | 24.02 | 25 | 0 |
| | | | | 841.5 | 26965 | 24.44 | 25 | 0 |
| | | | 36 | 822.5 | 26825 | 24.29 | 25 | 0 |
| | | | | 831.5 | 26865 | 24.26 | 25 | 0 |
| | | | | 841.5 | 26965 | 24.17 | 25 | 0 |
| | | | 74 | 822.5 | 26825 | 24.41 | 25 | 0 |
| | | | | 831.5 | 26865 | 24.02 | 25 | 0 |
| | | | | 841.5 | 26965 | 24.04 | 25 | 0 |
| | | 36 RB | 0 | 822.5 | 26825 | 23.16 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.12 | 24 | 0-1 |
| | | | | 841.5 | 26965 | 23.06 | 24 | 0-1 |
| | | | 18 | 822.5 | 26825 | 23.21 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.16 | 24 | 0-1 |
| | | | | 841.5 | 26965 | 23.13 | 24 | 0-1 |
| | | | 37 | 822.5 | 26825 | 23.22 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.31 | 24 | 0-1 |
| | | | | 841.5 | 26965 | 23.14 | 24 | 0-1 |
| | | 75RB | | 822.5 | 26825 | 23.26 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.21 | 24 | 0-1 |
| | | | | 841.5 | 26965 | 23.24 | 24 | 0-1 |
| | 16-QAM | 1 RB | 0 | 822.5 | 26825 | 23.21 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.30 | 24 | 0-1 |
| | | | | 841.5 | 26965 | 23.42 | 24 | 0-1 |
| | | | 36 | 822.5 | 26825 | 23.53 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.49 | 24 | 0-1 |
| | | | | 841.5 | 26965 | 23.60 | 24 | 0-1 |
| | | | 74 | 822.5 | 26825 | 23.73 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.30 | 24 | 0-1 |
| | | | | 841.5 | 26965 | 23.56 | 24 | 0-1 |
| | | 36 RB | 0 | 822.5 | 26825 | 22.20 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 22.18 | 23 | 0-2 |
| | | | | 841.5 | 26965 | 22.07 | 23 | 0-2 |
| | | | 18 | 822.5 | 26825 | 22.27 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 22.17 | 23 | 0-2 |
| | | | | 841.5 | 26965 | 22.20 | 23 | 0-2 |
| | | | 37 | 822.5 | 26825 | 22.28 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 22.23 | 23 | 0-2 |
| | | | | 841.5 | 26965 | 22.21 | 23 | 0-2 |
| | | 75RB | | 822.5 | 26825 | 22.31 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 22.16 | 23 | 0-2 |
| | | | | 841.5 | 26965 | 22.21 | 23 | 0-2 |

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| FDD Band 26 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 820 | 26800 | 23.90 | 25 | 0 |
| | | | | 831.5 | 26865 | 23.86 | 25 | 0 |
| | | | | 844 | 26990 | 24.33 | 25 | 0 |
| | | | 25 | 820 | 26800 | 24.04 | 25 | 0 |
| | | | | 831.5 | 26865 | 24.21 | 25 | 0 |
| | | | | 844 | 26990 | 24.14 | 25 | 0 |
| | | | 49 | 820 | 26800 | 24.06 | 25 | 0 |
| | | | | 831.5 | 26865 | 24.28 | 25 | 0 |
| | | | | 844 | 26990 | 24.33 | 25 | 0 |
| | | 25 RB | 0 | 820 | 26800 | 22.96 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.12 | 24 | 0-1 |
| | | | | 844 | 26990 | 23.17 | 24 | 0-1 |
| | | | 12 | 820 | 26800 | 23.08 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.13 | 24 | 0-1 |
| | | | | 844 | 26990 | 23.15 | 24 | 0-1 |
| | | | 25 | 820 | 26800 | 23.07 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.18 | 24 | 0-1 |
| | | | | 844 | 26990 | 23.10 | 24 | 0-1 |
| | | 50RB | | 820 | 26800 | 23.07 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.12 | 24 | 0-1 |
| | | | | 844 | 26990 | 23.18 | 24 | 0-1 |
| | 16-QAM | 1 RB | 0 | 820 | 26800 | 23.09 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.48 | 24 | 0-1 |
| | | | | 844 | 26990 | 23.34 | 24 | 0-1 |
| | | | 25 | 820 | 26800 | 23.08 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.33 | 24 | 0-1 |
| | | | | 844 | 26990 | 23.38 | 24 | 0-1 |
| | | | 49 | 820 | 26800 | 23.43 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.51 | 24 | 0-1 |
| | | | | 844 | 26990 | 23.42 | 24 | 0-1 |
| | | 25 RB | 0 | 820 | 26800 | 22.08 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 22.24 | 23 | 0-2 |
| | | | | 844 | 26990 | 22.32 | 23 | 0-2 |
| | | | 12 | 820 | 26800 | 22.02 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 22.23 | 23 | 0-2 |
| | | | | 844 | 26990 | 22.20 | 23 | 0-2 |
| | | | 25 | 820 | 26800 | 22.18 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 22.23 | 23 | 0-2 |
| | | | | 844 | 26990 | 22.17 | 23 | 0-2 |
| | | 50RB | | 820 | 26800 | 22.19 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 22.16 | 23 | 0-2 |
| | | | | 844 | 26990 | 22.15 | 23 | 0-2 |

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| FDD Band 26 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 816.5 | 26715 | 23.86 | 25 | 0 |
| | | | | 831.5 | 26865 | 23.97 | 25 | 0 |
| | | | | 846.5 | 27015 | 24.15 | 25 | 0 |
| | | | 12 | 816.5 | 26715 | 23.74 | 25 | 0 |
| | | | | 831.5 | 26865 | 24.08 | 25 | 0 |
| | | | | 846.5 | 27015 | 24.02 | 25 | 0 |
| | | | 24 | 816.5 | 26715 | 23.84 | 25 | 0 |
| | | | | 831.5 | 26865 | 24.17 | 25 | 0 |
| | | | | 846.5 | 27015 | 23.77 | 25 | 0 |
| | | 12 RB | 0 | 816.5 | 26715 | 22.87 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.16 | 24 | 0-1 |
| | | | | 846.5 | 27015 | 23.02 | 24 | 0-1 |
| | | | 6 | 816.5 | 26715 | 22.81 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.12 | 24 | 0-1 |
| | | | | 846.5 | 27015 | 23.15 | 24 | 0-1 |
| | | | 13 | 816.5 | 26715 | 22.86 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.18 | 24 | 0-1 |
| | | | | 846.5 | 27015 | 23.06 | 24 | 0-1 |
| | | 25RB | | 816.5 | 26715 | 23.03 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.11 | 24 | 0-1 |
| | | | | 846.5 | 27015 | 23.12 | 24 | 0-1 |
| | 16-QAM | 1 RB | 0 | 816.5 | 26715 | 23.41 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.62 | 24 | 0-1 |
| | | | | 846.5 | 27015 | 23.14 | 24 | 0-1 |
| | | | 12 | 816.5 | 26715 | 23.26 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.41 | 24 | 0-1 |
| | | | | 846.5 | 27015 | 23.57 | 24 | 0-1 |
| | | | 24 | 816.5 | 26715 | 23.76 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.57 | 24 | 0-1 |
| | | | | 846.5 | 27015 | 23.21 | 24 | 0-1 |
| | | 12 RB | 0 | 816.5 | 26715 | 22.21 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 22.35 | 23 | 0-2 |
| | | | | 846.5 | 27015 | 21.92 | 23 | 0-2 |
| | | | 6 | 816.5 | 26715 | 21.99 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 22.36 | 23 | 0-2 |
| | | | | 846.5 | 27015 | 22.09 | 23 | 0-2 |
| | | | 13 | 816.5 | 26715 | 22.15 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 22.42 | 23 | 0-2 |
| | | | | 846.5 | 27015 | 22.31 | 23 | 0-2 |
| | | 25RB | | 816.5 | 26715 | 22.14 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 22.23 | 23 | 0-2 |
| | | | | 846.5 | 27015 | 22.34 | 23 | 0-2 |

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| FDD Band 26 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3 | QPSK | 1 RB | 0 | 815.5 | 26705 | 24.05 | 25 | 0 |
| | | | | 831.5 | 26865 | 24.18 | 25 | 0 |
| | | | | 847.5 | 27025 | 23.93 | 25 | 0 |
| | | | 7 | 815.5 | 26705 | 24.04 | 25 | 0 |
| | | | | 831.5 | 26865 | 24.11 | 25 | 0 |
| | | | | 847.5 | 27025 | 23.84 | 25 | 0 |
| | | | 14 | 815.5 | 26705 | 23.88 | 25 | 0 |
| | | | | 831.5 | 26865 | 24.06 | 25 | 0 |
| | | | | 847.5 | 27025 | 23.72 | 25 | 0 |
| | | 8 RB | 0 | 815.5 | 26705 | 23.10 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.18 | 24 | 0-1 |
| | | | | 847.5 | 27025 | 23.13 | 24 | 0-1 |
| | | | 4 | 815.5 | 26705 | 23.08 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.15 | 24 | 0-1 |
| | | | | 847.5 | 27025 | 23.06 | 24 | 0-1 |
| | | | 7 | 815.5 | 26705 | 22.98 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.18 | 24 | 0-1 |
| | | | | 847.5 | 27025 | 23.12 | 24 | 0-1 |
| | | 15RB | | 815.5 | 26705 | 23.08 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.13 | 24 | 0-1 |
| | | | | 847.5 | 27025 | 23.14 | 24 | 0-1 |
| | 16-QAM | 1 RB | 0 | 815.5 | 26705 | 23.41 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.24 | 24 | 0-1 |
| | | | | 847.5 | 27025 | 23.44 | 24 | 0-1 |
| | | | 7 | 815.5 | 26705 | 23.23 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.29 | 24 | 0-1 |
| | | | | 847.5 | 27025 | 23.29 | 24 | 0-1 |
| | | | 14 | 815.5 | 26705 | 23.11 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.64 | 24 | 0-1 |
| | | | | 847.5 | 27025 | 23.01 | 24 | 0-1 |
| | | 8 RB | 0 | 815.5 | 26705 | 22.22 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 22.09 | 23 | 0-2 |
| | | | | 847.5 | 27025 | 22.18 | 23 | 0-2 |
| | | | 4 | 815.5 | 26705 | 22.10 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 22.10 | 23 | 0-2 |
| | | | | 847.5 | 27025 | 22.26 | 23 | 0-2 |
| | | | 7 | 815.5 | 26705 | 22.06 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 22.05 | 23 | 0-2 |
| | | | | 847.5 | 27025 | 22.07 | 23 | 0-2 |
| | | 15RB | | 815.5 | 26705 | 22.05 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 21.95 | 23 | 0-2 |
| | | | | 847.5 | 27025 | 22.14 | 23 | 0-2 |

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| FDD Band 26 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4 | QPSK | 1 RB | 0 | 814.7 | 26697 | 23.89 | 25 | 0 |
| | | | | 831.5 | 26865 | 24.14 | 25 | 0 |
| | | | | 848.3 | 27033 | 24.04 | 25 | 0 |
| | | | 2 | 814.7 | 26697 | 23.86 | 25 | 0 |
| | | | | 831.5 | 26865 | 24.02 | 25 | 0 |
| | | | | 848.3 | 27033 | 24.19 | 25 | 0 |
| | | | 5 | 814.7 | 26697 | 23.95 | 25 | 0 |
| | | | | 831.5 | 26865 | 24.08 | 25 | 0 |
| | | | | 848.3 | 27033 | 23.88 | 25 | 0 |
| | | 3 RB | 0 | 814.7 | 26697 | 23.83 | 25 | 0 |
| | | | | 831.5 | 26865 | 24.04 | 25 | 0 |
| | | | | 848.3 | 27033 | 24.07 | 25 | 0 |
| | | | 2 | 814.7 | 26697 | 23.86 | 25 | 0 |
| | | | | 831.5 | 26865 | 24.03 | 25 | 0 |
| | | | | 848.3 | 27033 | 24.04 | 25 | 0 |
| | | | 3 | 814.7 | 26697 | 23.73 | 25 | 0 |
| | | | | 831.5 | 26865 | 24.05 | 25 | 0 |
| | | | | 848.3 | 27033 | 23.99 | 25 | 0 |
| | | 6RB | | 814.7 | 26697 | 22.80 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.06 | 24 | 0-1 |
| | | | | 848.3 | 27033 | 23.12 | 24 | 0-1 |
| | 16-QAM | 1 RB | 0 | 814.7 | 26697 | 23.10 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.52 | 24 | 0-1 |
| | | | | 848.3 | 27033 | 23.28 | 24 | 0-1 |
| | | | 2 | 814.7 | 26697 | 23.41 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.53 | 24 | 0-1 |
| | | | | 848.3 | 27033 | 23.40 | 24 | 0-1 |
| | | | 5 | 814.7 | 26697 | 23.26 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.33 | 24 | 0-1 |
| | | | | 848.3 | 27033 | 23.12 | 24 | 0-1 |
| | | 3 RB | 0 | 814.7 | 26697 | 22.80 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.04 | 24 | 0-1 |
| | | | | 848.3 | 27033 | 23.13 | 24 | 0-1 |
| | | | 2 | 814.7 | 26697 | 23.04 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.26 | 24 | 0-1 |
| | | | | 848.3 | 27033 | 23.01 | 24 | 0-1 |
| | | | 3 | 814.7 | 26697 | 22.83 | 24 | 0-1 |
| | | | | 831.5 | 26865 | 23.02 | 24 | 0-1 |
| | | | | 848.3 | 27033 | 22.88 | 24 | 0-1 |
| | | 6RB | | 814.7 | 26697 | 21.99 | 23 | 0-2 |
| | | | | 831.5 | 26865 | 22.25 | 23 | 0-2 |
| | | | | 848.3 | 27033 | 22.11 | 23 | 0-2 |

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| FDD Band 30 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 2310 | 27710 | 23.11 | 24 | 0 |
| | | | 25 | 2310 | 27710 | 23.33 | 24 | 0 |
| | | | 49 | 2310 | 27710 | 23.54 | 24 | 0 |
| | | 25 RB | 0 | 2310 | 27710 | 22.20 | 23 | 0-1 |
| | | | 12 | 2310 | 27710 | 22.24 | 23 | 0-1 |
| | | | 25 | 2310 | 27710 | 22.28 | 23 | 0-1 |
| | | 50RB | | 2310 | 27710 | 22.25 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 2310 | 27710 | 22.54 | 23 | 0-1 |
| | | | 25 | 2310 | 27710 | 22.76 | 23 | 0-1 |
| | | | 49 | 2310 | 27710 | 22.80 | 23 | 0-1 |
| | | 25 RB | 0 | 2310 | 27710 | 21.29 | 22 | 0-2 |
| | | | 12 | 2310 | 27710 | 21.26 | 22 | 0-2 |
| | | | 25 | 2310 | 27710 | 21.31 | 22 | 0-2 |
| | | 50RB | | 2310 | 27710 | 21.34 | 22 | 0-2 |

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| FDD Band 30 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 2307.5 | 27685 | 23.05 | 24 | 0 |
| | | | | 2310 | 27710 | 23.07 | 24 | 0 |
| | | | | 2312.5 | 27735 | 23.18 | 24 | 0 |
| | | | 12 | 2307.5 | 27685 | 23.01 | 24 | 0 |
| | | | | 2310 | 27710 | 23.18 | 24 | 0 |
| | | | | 2312.5 | 27735 | 23.24 | 24 | 0 |
| | | | 24 | 2307.5 | 27685 | 23.04 | 24 | 0 |
| | | | | 2310 | 27710 | 23.23 | 24 | 0 |
| | | | | 2312.5 | 27735 | 23.42 | 24 | 0 |
| | | 12 RB | 0 | 2307.5 | 27685 | 22.02 | 23 | 0-1 |
| | | | | 2310 | 27710 | 22.00 | 23 | 0-1 |
| | | | | 2312.5 | 27735 | 22.11 | 23 | 0-1 |
| | | | 6 | 2307.5 | 27685 | 22.03 | 23 | 0-1 |
| | | | | 2310 | 27710 | 22.05 | 23 | 0-1 |
| | | | | 2312.5 | 27735 | 22.11 | 23 | 0-1 |
| | | | 13 | 2307.5 | 27685 | 22.02 | 23 | 0-1 |
| | | | | 2310 | 27710 | 22.11 | 23 | 0-1 |
| | | | | 2312.5 | 27735 | 22.26 | 23 | 0-1 |
| | | 25RB | | 2307.5 | 27685 | 22.04 | 23 | 0-1 |
| | | | | 2310 | 27710 | 22.08 | 23 | 0-1 |
| | | | | 2312.5 | 27735 | 22.20 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 2307.5 | 27685 | 22.21 | 23 | 0-1 |
| | | | | 2310 | 27710 | 22.25 | 23 | 0-1 |
| | | | | 2312.5 | 27735 | 22.04 | 23 | 0-1 |
| | | | 12 | 2307.5 | 27685 | 22.16 | 23 | 0-1 |
| | | | | 2310 | 27710 | 22.43 | 23 | 0-1 |
| | | | | 2312.5 | 27735 | 22.38 | 23 | 0-1 |
| | | | 24 | 2307.5 | 27685 | 22.21 | 23 | 0-1 |
| | | | | 2310 | 27710 | 22.27 | 23 | 0-1 |
| | | | | 2312.5 | 27735 | 22.05 | 23 | 0-1 |
| | | 12 RB | 0 | 2307.5 | 27685 | 21.97 | 22 | 0-2 |
| | | | | 2310 | 27710 | 21.85 | 22 | 0-2 |
| | | | | 2312.5 | 27735 | 21.76 | 22 | 0-2 |
| | | | 6 | 2307.5 | 27685 | 21.81 | 22 | 0-2 |
| | | | | 2310 | 27710 | 21.74 | 22 | 0-2 |
| | | | | 2312.5 | 27735 | 21.53 | 22 | 0-2 |
| | | | 13 | 2307.5 | 27685 | 21.67 | 22 | 0-2 |
| | | | | 2310 | 27710 | 21.41 | 22 | 0-2 |
| | | | | 2312.5 | 27735 | 21.38 | 22 | 0-2 |
| | | 25RB | | 2307.5 | 27685 | 21.73 | 22 | 0-2 |
| | | | | 2310 | 27710 | 21.68 | 22 | 0-2 |
| | | | | 2312.5 | 27735 | 21.17 | 22 | 0-2 |

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| FDD Band 66 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20 | QPSK | 1 RB | 0 | 1720 | 132072 | 23.36 | 24 | 0 |
| | | | | 1745 | 132322 | 23.57 | 24 | 0 |
| | | | | 1770 | 132572 | 23.63 | 24 | 0 |
| | | | 50 | 1720 | 132072 | 23.23 | 24 | 0 |
| | | | | 1745 | 132322 | 23.40 | 24 | 0 |
| | | | | 1770 | 132572 | 23.45 | 24 | 0 |
| | | | 99 | 1720 | 132072 | 23.18 | 24 | 0 |
| | | | | 1745 | 132322 | 23.58 | 24 | 0 |
| | | | | 1770 | 132572 | 23.17 | 24 | 0 |
| | | 50 RB | 0 | 1720 | 132072 | 22.21 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.38 | 23 | 0-1 |
| | | | | 1770 | 132572 | 22.40 | 23 | 0-1 |
| | | | 25 | 1720 | 132072 | 22.21 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.31 | 23 | 0-1 |
| | | | | 1770 | 132572 | 22.33 | 23 | 0-1 |
| | | | 50 | 1720 | 132072 | 22.24 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.39 | 23 | 0-1 |
| | | | | 1770 | 132572 | 22.21 | 23 | 0-1 |
| | | 100RB | | 1720 | 132072 | 22.30 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.35 | 23 | 0-1 |
| | | | | 1770 | 132572 | 22.47 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1720 | 132072 | 22.44 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.87 | 23 | 0-1 |
| | | | | 1770 | 132572 | 22.60 | 23 | 0-1 |
| | | | 50 | 1720 | 132072 | 22.52 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.41 | 23 | 0-1 |
| | | | | 1770 | 132572 | 22.73 | 23 | 0-1 |
| | | | 99 | 1720 | 132072 | 22.52 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.79 | 23 | 0-1 |
| | | | | 1770 | 132572 | 22.51 | 23 | 0-1 |
| | | 50 RB | 0 | 1720 | 132072 | 21.25 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.42 | 22 | 0-2 |
| | | | | 1770 | 132572 | 21.49 | 22 | 0-2 |
| | | | 25 | 1720 | 132072 | 21.26 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.37 | 22 | 0-2 |
| | | | | 1770 | 132572 | 21.53 | 22 | 0-2 |
| | | | 50 | 1720 | 132072 | 21.32 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.37 | 22 | 0-2 |
| | | | | 1770 | 132572 | 21.32 | 22 | 0-2 |
| | | 100RB | | 1720 | 132072 | 21.28 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.37 | 22 | 0-2 |
| | | | | 1770 | 132572 | 21.57 | 22 | 0-2 |

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| FDD Band 66 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15 | QPSK | 1 RB | 0 | 1717.5 | 132047 | 23.15 | 24 | 0 |
| | | | | 1745 | 132322 | 23.39 | 24 | 0 |
| | | | | 1772.5 | 132597 | 23.30 | 24 | 0 |
| | | | 36 | 1717.5 | 132047 | 23.44 | 24 | 0 |
| | | | | 1745 | 132322 | 23.31 | 24 | 0 |
| | | | | 1772.5 | 132597 | 23.48 | 24 | 0 |
| | | | 74 | 1717.5 | 132047 | 23.45 | 24 | 0 |
| | | | | 1745 | 132322 | 23.36 | 24 | 0 |
| | | | | 1772.5 | 132597 | 23.10 | 24 | 0 |
| | | 36 RB | 0 | 1717.5 | 132047 | 22.09 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.43 | 23 | 0-1 |
| | | | | 1772.5 | 132597 | 22.39 | 23 | 0-1 |
| | | | 18 | 1717.5 | 132047 | 22.05 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.37 | 23 | 0-1 |
| | | | | 1772.5 | 132597 | 22.40 | 23 | 0-1 |
| | | | 37 | 1717.5 | 132047 | 22.13 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.41 | 23 | 0-1 |
| | | | | 1772.5 | 132597 | 22.26 | 23 | 0-1 |
| | | 75RB | | 1717.5 | 132047 | 22.08 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.42 | 23 | 0-1 |
| | | | | 1772.5 | 132597 | 22.43 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1717.5 | 132047 | 22.42 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.81 | 23 | 0-1 |
| | | | | 1772.5 | 132597 | 22.70 | 23 | 0-1 |
| | | | 36 | 1717.5 | 132047 | 22.41 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.65 | 23 | 0-1 |
| | | | | 1772.5 | 132597 | 22.54 | 23 | 0-1 |
| | | | 74 | 1717.5 | 132047 | 22.56 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.66 | 23 | 0-1 |
| | | | | 1772.5 | 132597 | 22.25 | 23 | 0-1 |
| | | 36 RB | 0 | 1717.5 | 132047 | 21.16 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.54 | 22 | 0-2 |
| | | | | 1772.5 | 132597 | 21.49 | 22 | 0-2 |
| | | | 18 | 1717.5 | 132047 | 21.24 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.42 | 22 | 0-2 |
| | | | | 1772.5 | 132597 | 21.39 | 22 | 0-2 |
| | | | 37 | 1717.5 | 132047 | 21.30 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.55 | 22 | 0-2 |
| | | | | 1772.5 | 132597 | 21.30 | 22 | 0-2 |
| | | 75RB | | 1717.5 | 132047 | 21.32 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.51 | 22 | 0-2 |
| | | | | 1772.5 | 132597 | 21.41 | 22 | 0-2 |

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| FDD Band 66 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 1715 | 132022 | 23.46 | 24 | 0 |
| | | | | 1745 | 132322 | 23.24 | 24 | 0 |
| | | | | 1775 | 132622 | 23.54 | 24 | 0 |
| | | | 25 | 1715 | 132022 | 23.23 | 24 | 0 |
| | | | | 1745 | 132322 | 23.38 | 24 | 0 |
| | | | | 1775 | 132622 | 23.29 | 24 | 0 |
| | | | 49 | 1715 | 132022 | 23.09 | 24 | 0 |
| | | | | 1745 | 132322 | 23.40 | 24 | 0 |
| | | | | 1775 | 132622 | 23.19 | 24 | 0 |
| | | 25 RB | 0 | 1715 | 132022 | 22.04 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.42 | 23 | 0-1 |
| | | | | 1775 | 132622 | 22.37 | 23 | 0-1 |
| | | | 12 | 1715 | 132022 | 22.00 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.38 | 23 | 0-1 |
| | | | | 1775 | 132622 | 22.28 | 23 | 0-1 |
| | | | 25 | 1715 | 132022 | 22.14 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.39 | 23 | 0-1 |
| | | | | 1775 | 132622 | 22.19 | 23 | 0-1 |
| | | 50RB | | 1715 | 132022 | 22.22 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.40 | 23 | 0-1 |
| | | | | 1775 | 132622 | 22.26 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1715 | 132022 | 22.66 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.75 | 23 | 0-1 |
| | | | | 1775 | 132622 | 22.79 | 23 | 0-1 |
| | | | 25 | 1715 | 132022 | 22.54 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.88 | 23 | 0-1 |
| | | | | 1775 | 132622 | 22.45 | 23 | 0-1 |
| | | | 49 | 1715 | 132022 | 22.75 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.79 | 23 | 0-1 |
| | | | | 1775 | 132622 | 22.52 | 23 | 0-1 |
| | | 25 RB | 0 | 1715 | 132022 | 21.34 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.53 | 22 | 0-2 |
| | | | | 1775 | 132622 | 21.44 | 22 | 0-2 |
| | | | 12 | 1715 | 132022 | 21.25 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.46 | 22 | 0-2 |
| | | | | 1775 | 132622 | 21.35 | 22 | 0-2 |
| | | | 25 | 1715 | 132022 | 21.38 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.51 | 22 | 0-2 |
| | | | | 1775 | 132622 | 21.20 | 22 | 0-2 |
| | | 50RB | | 1715 | 132022 | 21.26 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.41 | 22 | 0-2 |
| | | | | 1775 | 132622 | 21.27 | 22 | 0-2 |

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| FDD Band 66 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 1712.5 | 131997 | 23.36 | 24 | 0 |
| | | | | 1745 | 132322 | 23.24 | 24 | 0 |
| | | | | 1777.5 | 132647 | 23.25 | 24 | 0 |
| | | | 12 | 1712.5 | 131997 | 23.48 | 24 | 0 |
| | | | | 1745 | 132322 | 23.60 | 24 | 0 |
| | | | | 1777.5 | 132647 | 23.30 | 24 | 0 |
| | | | 24 | 1712.5 | 131997 | 23.22 | 24 | 0 |
| | | | | 1745 | 132322 | 23.50 | 24 | 0 |
| | | | | 1777.5 | 132647 | 22.97 | 24 | 0 |
| | | 12 RB | 0 | 1712.5 | 131997 | 22.33 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.34 | 23 | 0-1 |
| | | | | 1777.5 | 132647 | 22.22 | 23 | 0-1 |
| | | | 6 | 1712.5 | 131997 | 22.37 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.38 | 23 | 0-1 |
| | | | | 1777.5 | 132647 | 22.13 | 23 | 0-1 |
| | | | 13 | 1712.5 | 131997 | 22.30 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.43 | 23 | 0-1 |
| | | | | 1777.5 | 132647 | 22.04 | 23 | 0-1 |
| | | 25RB | | 1712.5 | 131997 | 22.31 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.33 | 23 | 0-1 |
| | | | | 1777.5 | 132647 | 22.18 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1712.5 | 131997 | 22.10 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.65 | 23 | 0-1 |
| | | | | 1777.5 | 132647 | 22.71 | 23 | 0-1 |
| | | | 12 | 1712.5 | 131997 | 22.82 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.39 | 23 | 0-1 |
| | | | | 1777.5 | 132647 | 22.46 | 23 | 0-1 |
| | | | 24 | 1712.5 | 131997 | 22.73 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.97 | 23 | 0-1 |
| | | | | 1777.5 | 132647 | 22.39 | 23 | 0-1 |
| | | 12 RB | 0 | 1712.5 | 131997 | 21.46 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.39 | 22 | 0-2 |
| | | | | 1777.5 | 132647 | 21.33 | 22 | 0-2 |
| | | | 6 | 1712.5 | 131997 | 21.41 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.54 | 22 | 0-2 |
| | | | | 1777.5 | 132647 | 21.33 | 22 | 0-2 |
| | | | 13 | 1712.5 | 131997 | 21.45 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.47 | 22 | 0-2 |
| | | | | 1777.5 | 132647 | 21.26 | 22 | 0-2 |
| | | 25RB | | 1712.5 | 131997 | 21.38 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.38 | 22 | 0-2 |
| | | | | 1777.5 | 132647 | 21.28 | 22 | 0-2 |

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| FDD Band 66 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3 | QPSK | 1 RB | 0 | 1711.5 | 131987 | 23.17 | 24 | 0 |
| | | | | 1745 | 132322 | 23.26 | 24 | 0 |
| | | | | 1778.5 | 132657 | 22.98 | 24 | 0 |
| | | | 7 | 1711.5 | 131987 | 23.33 | 24 | 0 |
| | | | | 1745 | 132322 | 23.37 | 24 | 0 |
| | | | | 1778.5 | 132657 | 23.13 | 24 | 0 |
| | | | 14 | 1711.5 | 131987 | 23.30 | 24 | 0 |
| | | | | 1745 | 132322 | 23.30 | 24 | 0 |
| | | | | 1778.5 | 132657 | 23.08 | 24 | 0 |
| | | 8 RB | 0 | 1711.5 | 131987 | 22.32 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.40 | 23 | 0-1 |
| | | | | 1778.5 | 132657 | 22.16 | 23 | 0-1 |
| | | | 4 | 1711.5 | 131987 | 22.32 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.43 | 23 | 0-1 |
| | | | | 1778.5 | 132657 | 22.14 | 23 | 0-1 |
| | | | 7 | 1711.5 | 131987 | 22.46 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.42 | 23 | 0-1 |
| | | | | 1778.5 | 132657 | 22.13 | 23 | 0-1 |
| | | 15RB | | 1711.5 | 131987 | 22.37 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.40 | 23 | 0-1 |
| | | | | 1778.5 | 132657 | 22.18 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1711.5 | 131987 | 22.60 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.44 | 23 | 0-1 |
| | | | | 1778.5 | 132657 | 22.47 | 23 | 0-1 |
| | | | 7 | 1711.5 | 131987 | 22.66 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.46 | 23 | 0-1 |
| | | | | 1778.5 | 132657 | 22.39 | 23 | 0-1 |
| | | | 14 | 1711.5 | 131987 | 22.42 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.62 | 23 | 0-1 |
| | | | | 1778.5 | 132657 | 22.19 | 23 | 0-1 |
| | | 8 RB | 0 | 1711.5 | 131987 | 21.27 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.38 | 22 | 0-2 |
| | | | | 1778.5 | 132657 | 21.18 | 22 | 0-2 |
| | | | 4 | 1711.5 | 131987 | 21.43 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.48 | 22 | 0-2 |
| | | | | 1778.5 | 132657 | 21.33 | 22 | 0-2 |
| | | | 7 | 1711.5 | 131987 | 21.46 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.31 | 22 | 0-2 |
| | | | | 1778.5 | 132657 | 21.23 | 22 | 0-2 |
| | | 15RB | | 1711.5 | 131987 | 21.32 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.45 | 22 | 0-2 |
| | | | | 1778.5 | 132657 | 21.22 | 22 | 0-2 |

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| FDD Band 66 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4 | QPSK | 1 RB | 0 | 1710.7 | 131979 | 23.11 | 24 | 0 |
| | | | | 1745 | 132322 | 23.21 | 24 | 0 |
| | | | | 1779.3 | 132665 | 22.92 | 24 | 0 |
| | | | 2 | 1710.7 | 131979 | 23.10 | 24 | 0 |
| | | | | 1745 | 132322 | 23.18 | 24 | 0 |
| | | | | 1779.3 | 132665 | 22.80 | 24 | 0 |
| | | | 5 | 1710.7 | 131979 | 22.99 | 24 | 0 |
| | | | | 1745 | 132322 | 23.30 | 24 | 0 |
| | | | | 1779.3 | 132665 | 22.94 | 24 | 0 |
| | | 3 RB | 0 | 1710.7 | 131979 | 23.03 | 24 | 0 |
| | | | | 1745 | 132322 | 23.16 | 24 | 0 |
| | | | | 1779.3 | 132665 | 22.92 | 24 | 0 |
| | | | 2 | 1710.7 | 131979 | 22.96 | 24 | 0 |
| | | | | 1745 | 132322 | 23.20 | 24 | 0 |
| | | | | 1779.3 | 132665 | 22.88 | 24 | 0 |
| | | | 3 | 1710.7 | 131979 | 23.04 | 24 | 0 |
| | | | | 1745 | 132322 | 23.21 | 24 | 0 |
| | | | | 1779.3 | 132665 | 22.85 | 24 | 0 |
| | | 6RB | | 1710.7 | 131979 | 22.09 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.31 | 23 | 0-1 |
| | | | | 1779.3 | 132665 | 21.98 | 23 | 0-1 |
| | 16-QAM | 1 RB | 0 | 1710.7 | 131979 | 22.27 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.72 | 23 | 0-1 |
| | | | | 1779.3 | 132665 | 22.56 | 23 | 0-1 |
| | | | 2 | 1710.7 | 131979 | 22.56 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.58 | 23 | 0-1 |
| | | | | 1779.3 | 132665 | 22.07 | 23 | 0-1 |
| | | | 5 | 1710.7 | 131979 | 22.74 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.31 | 23 | 0-1 |
| | | | | 1779.3 | 132665 | 22.43 | 23 | 0-1 |
| | | 3 RB | 0 | 1710.7 | 131979 | 22.20 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.38 | 23 | 0-1 |
| | | | | 1779.3 | 132665 | 22.03 | 23 | 0-1 |
| | | | 2 | 1710.7 | 131979 | 22.24 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.31 | 23 | 0-1 |
| | | | | 1779.3 | 132665 | 22.39 | 23 | 0-1 |
| | | | 3 | 1710.7 | 131979 | 22.28 | 23 | 0-1 |
| | | | | 1745 | 132322 | 22.15 | 23 | 0-1 |
| | | | | 1779.3 | 132665 | 22.15 | 23 | 0-1 |
| | | 6RB | | 1710.7 | 131979 | 21.31 | 22 | 0-2 |
| | | | | 1745 | 132322 | 21.35 | 22 | 0-2 |
| | | | | 1779.3 | 132665 | 21.08 | 22 | 0-2 |

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## LTE TDD Band 38 / Band 41 power table (Full power):

| TDD Band 38 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20 | QPSK | 1 RB | 0 | 2580 | 37850 | 24.95 | 25 | 0 |
| | | | | 2595 | 38000 | 24.98 | 25 | 0 |
| | | | | 2610 | 38150 | 24.94 | 25 | 0 |
| | | | 50 | 2580 | 37850 | 24.96 | 25 | 0 |
| | | | | 2595 | 38000 | 24.92 | 25 | 0 |
| | | | | 2610 | 38150 | 24.90 | 25 | 0 |
| | | | 99 | 2580 | 37850 | 24.77 | 25 | 0 |
| | | | | 2595 | 38000 | 24.87 | 25 | 0 |
| | | | | 2610 | 38150 | 24.79 | 25 | 0 |
| | | 50 RB | 0 | 2580 | 37850 | 23.79 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.99 | 24 | 0-1 |
| | | | | 2610 | 38150 | 23.82 | 24 | 0-1 |
| | | | 25 | 2580 | 37850 | 23.92 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.86 | 24 | 0-1 |
| | | | | 2610 | 38150 | 23.82 | 24 | 0-1 |
| | | | 50 | 2580 | 37850 | 23.82 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.91 | 24 | 0-1 |
| | | | | 2610 | 38150 | 23.85 | 24 | 0-1 |
| | | 100RB | | 2580 | 37850 | 23.78 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.89 | 24 | 0-1 |
| | | | | 2610 | 38150 | 23.83 | 24 | 0-1 |
| | 16-QAM | 1 RB | 0 | 2580 | 37850 | 23.93 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.86 | 24 | 0-1 |
| | | | | 2610 | 38150 | 23.94 | 24 | 0-1 |
| | | | 50 | 2580 | 37850 | 23.91 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.79 | 24 | 0-1 |
| | | | | 2610 | 38150 | 23.83 | 24 | 0-1 |
| | | | 99 | 2580 | 37850 | 23.78 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.84 | 24 | 0-1 |
| | | | | 2610 | 38150 | 23.85 | 24 | 0-1 |
| | | 50 RB | 0 | 2580 | 37850 | 22.86 | 23 | 0-2 |
| | | | | 2595 | 38000 | 22.92 | 23 | 0-2 |
| | | | | 2610 | 38150 | 22.85 | 23 | 0-2 |
| | | | 25 | 2580 | 37850 | 22.90 | 23 | 0-2 |
| | | | | 2595 | 38000 | 22.84 | 23 | 0-2 |
| | | | | 2610 | 38150 | 22.94 | 23 | 0-2 |
| | | | 50 | 2580 | 37850 | 22.85 | 23 | 0-2 |
| | | | | 2595 | 38000 | 22.91 | 23 | 0-2 |
| | | | | 2610 | 38150 | 22.77 | 23 | 0-2 |
| | | 100RB | | 2580 | 37850 | 22.79 | 23 | 0-2 |
| | | | | 2595 | 38000 | 22.83 | 23 | 0-2 |
| | | | | 2610 | 38150 | 22.78 | 23 | 0-2 |

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| TDD Band 38 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15 | QPSK | 1 RB | 0 | 2577.5 | 37825 | 24.97 | 25 | 0 |
| | | | | 2595 | 38000 | 24.86 | 25 | 0 |
| | | | | 2612.5 | 38175 | 24.81 | 25 | 0 |
| | | | 36 | 2577.5 | 37825 | 24.80 | 25 | 0 |
| | | | | 2595 | 38000 | 24.88 | 25 | 0 |
| | | | | 2612.5 | 38175 | 24.95 | 25 | 0 |
| | | | 74 | 2577.5 | 37825 | 24.87 | 25 | 0 |
| | | | | 2595 | 38000 | 24.82 | 25 | 0 |
| | | | | 2612.5 | 38175 | 24.96 | 25 | 0 |
| | | 36 RB | 0 | 2577.5 | 37825 | 23.81 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.90 | 24 | 0-1 |
| | | | | 2612.5 | 38175 | 23.79 | 24 | 0-1 |
| | | | 18 | 2577.5 | 37825 | 23.82 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.92 | 24 | 0-1 |
| | | | | 2612.5 | 38175 | 23.88 | 24 | 0-1 |
| | | | 37 | 2577.5 | 37825 | 23.88 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.96 | 24 | 0-1 |
| | | | | 2612.5 | 38175 | 23.87 | 24 | 0-1 |
| | | 75RB | | 2577.5 | 37825 | 23.78 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.93 | 24 | 0-1 |
| | | | | 2612.5 | 38175 | 23.78 | 24 | 0-1 |
| | 16-QAM | 1 RB | 0 | 2577.5 | 37825 | 23.85 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.77 | 24 | 0-1 |
| | | | | 2612.5 | 38175 | 23.85 | 24 | 0-1 |
| | | | 36 | 2577.5 | 37825 | 23.82 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.95 | 24 | 0-1 |
| | | | | 2612.5 | 38175 | 23.81 | 24 | 0-1 |
| | | | 74 | 2577.5 | 37825 | 23.85 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.85 | 24 | 0-1 |
| | | | | 2612.5 | 38175 | 23.83 | 24 | 0-1 |
| | | 36 RB | 0 | 2577.5 | 37825 | 22.80 | 23 | 0-2 |
| | | | | 2595 | 38000 | 22.81 | 23 | 0-2 |
| | | | | 2612.5 | 38175 | 22.93 | 23 | 0-2 |
| | | | 18 | 2577.5 | 37825 | 22.85 | 23 | 0-2 |
| | | | | 2595 | 38000 | 22.95 | 23 | 0-2 |
| | | | | 2612.5 | 38175 | 22.93 | 23 | 0-2 |
| | | | 37 | 2577.5 | 37825 | 22.89 | 23 | 0-2 |
| | | | | 2595 | 38000 | 22.79 | 23 | 0-2 |
| | | | | 2612.5 | 38175 | 22.84 | 23 | 0-2 |
| | | 75RB | | 2577.5 | 37825 | 22.80 | 23 | 0-2 |
| | | | | 2595 | 38000 | 22.91 | 23 | 0-2 |
| | | | | 2612.5 | 38175 | 22.81 | 23 | 0-2 |

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| TDD Band 38 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 2575 | 37800 | 24.95 | 25 | 0 |
| | | | | 2595 | 38000 | 24.94 | 25 | 0 |
| | | | | 2615 | 38200 | 24.91 | 25 | 0 |
| | | | 25 | 2575 | 37800 | 24.78 | 25 | 0 |
| | | | | 2595 | 38000 | 24.78 | 25 | 0 |
| | | | | 2615 | 38200 | 24.78 | 25 | 0 |
| | | | 49 | 2575 | 37800 | 24.92 | 25 | 0 |
| | | | | 2595 | 38000 | 24.92 | 25 | 0 |
| | | | | 2615 | 38200 | 24.95 | 25 | 0 |
| | | 25 RB | 0 | 2575 | 37800 | 23.95 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.85 | 24 | 0-1 |
| | | | | 2615 | 38200 | 23.85 | 24 | 0-1 |
| | | | 12 | 2575 | 37800 | 23.84 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.90 | 24 | 0-1 |
| | | | | 2615 | 38200 | 23.89 | 24 | 0-1 |
| | | | 25 | 2575 | 37800 | 23.82 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.92 | 24 | 0-1 |
| | | | | 2615 | 38200 | 23.92 | 24 | 0-1 |
| | | 50RB | | 2575 | 37800 | 23.78 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.83 | 24 | 0-1 |
| | | | | 2615 | 38200 | 23.93 | 24 | 0-1 |
| | 16-QAM | 1 RB | 0 | 2575 | 37800 | 23.93 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.79 | 24 | 0-1 |
| | | | | 2615 | 38200 | 23.88 | 24 | 0-1 |
| | | | 25 | 2575 | 37800 | 23.77 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.90 | 24 | 0-1 |
| | | | | 2615 | 38200 | 23.88 | 24 | 0-1 |
| | | | 49 | 2575 | 37800 | 23.93 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.85 | 24 | 0-1 |
| | | | | 2615 | 38200 | 23.79 | 24 | 0-1 |
| | | 25 RB | 0 | 2575 | 37800 | 22.92 | 23 | 0-2 |
| | | | | 2595 | 38000 | 22.84 | 23 | 0-2 |
| | | | | 2615 | 38200 | 22.80 | 23 | 0-2 |
| | | | 12 | 2575 | 37800 | 22.89 | 23 | 0-2 |
| | | | | 2595 | 38000 | 22.95 | 23 | 0-2 |
| | | | | 2615 | 38200 | 22.90 | 23 | 0-2 |
| | | | 25 | 2575 | 37800 | 22.84 | 23 | 0-2 |
| | | | | 2595 | 38000 | 22.77 | 23 | 0-2 |
| | | | | 2615 | 38200 | 22.87 | 23 | 0-2 |
| | | 50RB | | 2575 | 37800 | 22.83 | 23 | 0-2 |
| | | | | 2595 | 38000 | 22.87 | 23 | 0-2 |
| | | | | 2615 | 38200 | 22.85 | 23 | 0-2 |

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| TDD Band 38 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 2572.5 | 37775 | 24.90 | 25 | 0 |
| | | | | 2595 | 38000 | 24.80 | 25 | 0 |
| | | | | 2617.5 | 38225 | 24.81 | 25 | 0 |
| | | | 12 | 2572.5 | 37775 | 24.96 | 25 | 0 |
| | | | | 2595 | 38000 | 24.86 | 25 | 0 |
| | | | | 2617.5 | 38225 | 24.93 | 25 | 0 |
| | | | 24 | 2572.5 | 37775 | 24.82 | 25 | 0 |
| | | | | 2595 | 38000 | 24.89 | 25 | 0 |
| | | | | 2617.5 | 38225 | 24.91 | 25 | 0 |
| | | 12 RB | 0 | 2572.5 | 37775 | 23.83 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.86 | 24 | 0-1 |
| | | | | 2617.5 | 38225 | 23.83 | 24 | 0-1 |
| | | | 6 | 2572.5 | 37775 | 23.88 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.79 | 24 | 0-1 |
| | | | | 2617.5 | 38225 | 23.85 | 24 | 0-1 |
| | | | 13 | 2572.5 | 37775 | 23.80 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.95 | 24 | 0-1 |
| | | | | 2617.5 | 38225 | 23.81 | 24 | 0-1 |
| | | 25RB | | 2572.5 | 37775 | 23.86 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.80 | 24 | 0-1 |
| | | | | 2617.5 | 38225 | 23.86 | 24 | 0-1 |
| | 16-QAM | 1 RB | 0 | 2572.5 | 37775 | 23.78 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.87 | 24 | 0-1 |
| | | | | 2617.5 | 38225 | 23.81 | 24 | 0-1 |
| | | | 12 | 2572.5 | 37775 | 23.80 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.82 | 24 | 0-1 |
| | | | | 2617.5 | 38225 | 23.78 | 24 | 0-1 |
| | | | 24 | 2572.5 | 37775 | 23.94 | 24 | 0-1 |
| | | | | 2595 | 38000 | 23.86 | 24 | 0-1 |
| | | | | 2617.5 | 38225 | 23.83 | 24 | 0-1 |
| | | 12 RB | 0 | 2572.5 | 37775 | 22.96 | 23 | 0-2 |
| | | | | 2595 | 38000 | 22.79 | 23 | 0-2 |
| | | | | 2617.5 | 38225 | 22.92 | 23 | 0-2 |
| | | | 6 | 2572.5 | 37775 | 22.83 | 23 | 0-2 |
| | | | | 2595 | 38000 | 22.80 | 23 | 0-2 |
| | | | | 2617.5 | 38225 | 22.86 | 23 | 0-2 |
| | | | 13 | 2572.5 | 37775 | 22.89 | 23 | 0-2 |
| | | | | 2595 | 38000 | 22.79 | 23 | 0-2 |
| | | | | 2617.5 | 38225 | 22.83 | 23 | 0-2 |
| | | 25RB | | 2572.5 | 37775 | 22.87 | 23 | 0-2 |
| | | | | 2595 | 38000 | 22.87 | 23 | 0-2 |
| | | | | 2617.5 | 38225 | 22.94 | 23 | 0-2 |

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| TDD Band 41 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20 | QPSK | 1 RB | 0 | 2506 | 39750 | 24.09 | 25 | 0 |
| | | | | 2549.5 | 40185 | 23.78 | 25 | 0 |
| | | | | 2593 | 40620 | 24.00 | 25 | 0 |
| | | | | 2636.5 | 41055 | 24.91 | 25 | 0 |
| | | | | 2680 | 41490 | 24.84 | 25 | 0 |
| | | | 50 | 2506 | 39750 | 23.74 | 25 | 0 |
| | | | | 2549.5 | 40185 | 23.64 | 25 | 0 |
| | | | | 2593 | 40620 | 23.95 | 25 | 0 |
| | | | | 2636.5 | 41055 | 24.72 | 25 | 0 |
| | | | | 2680 | 41490 | 24.84 | 25 | 0 |
| | | | 99 | 2506 | 39750 | 23.68 | 25 | 0 |
| | | | | 2549.5 | 40185 | 23.76 | 25 | 0 |
| | | | | 2593 | 40620 | 24.07 | 25 | 0 |
| | | | | 2636.5 | 41055 | 24.88 | 25 | 0 |
| | | | | 2680 | 41490 | 24.82 | 25 | 0 |
| | | 50 RB | 0 | 2506 | 39750 | 22.92 | 24 | 0-1 |
| | | | | 2549.5 | 40185 | 22.64 | 24 | 0-1 |
| | | | | 2593 | 40620 | 22.94 | 24 | 0-1 |
| | | | | 2636.5 | 41055 | 23.68 | 24 | 0-1 |
| | | | | 2680 | 41490 | 23.36 | 24 | 0-1 |
| | | | 25 | 2506 | 39750 | 22.86 | 24 | 0-1 |
| | | | | 2549.5 | 40185 | 22.71 | 24 | 0-1 |
| | | | | 2593 | 40620 | 22.98 | 24 | 0-1 |
| | | | | 2636.5 | 41055 | 23.65 | 24 | 0-1 |
| | | | | 2680 | 41490 | 23.39 | 24 | 0-1 |
| | | | 50 | 2506 | 39750 | 22.73 | 24 | 0-1 |
| | | | | 2549.5 | 40185 | 22.69 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.03 | 24 | 0-1 |
| | | | | 2636.5 | 41055 | 23.62 | 24 | 0-1 |
| | | | | 2680 | 41490 | 23.35 | 24 | 0-1 |
| | | 100RB | | 2506 | 39750 | 22.88 | 24 | 0-1 |
| | | | | 2549.5 | 40185 | 22.70 | 24 | 0-1 |
| | | | | 2593 | 40620 | 22.97 | 24 | 0-1 |
| | | | | 2636.5 | 41055 | 23.62 | 24 | 0-1 |
| | | | | 2680 | 41490 | 23.32 | 24 | 0-1 |

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| TDD Band 41 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20 | 16-QAM | 1 RB | 0 | 2506 | 39750 | 23.71 | 24 | 0-1 |
| | | | | 2549.5 | 40185 | 23.68 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.91 | 24 | 0-1 |
| | | | | 2636.5 | 41055 | 23.79 | 24 | 0-1 |
| | | | | 2680 | 41490 | 23.52 | 24 | 0-1 |
| | | | 50 | 2506 | 39750 | 23.52 | 24 | 0-1 |
| | | | | 2549.5 | 40185 | 23.55 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.85 | 24 | 0-1 |
| | | | | 2636.5 | 41055 | 23.68 | 24 | 0-1 |
| | | | | 2680 | 41490 | 23.68 | 24 | 0-1 |
| | | | 99 | 2506 | 39750 | 23.95 | 24 | 0-1 |
| | | | | 2549.5 | 40185 | 23.66 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.81 | 24 | 0-1 |
| | | | | 2636.5 | 41055 | 23.56 | 24 | 0-1 |
| | | | | 2680 | 41490 | 23.76 | 24 | 0-1 |
| | | 50 RB | 0 | 2506 | 39750 | 22.57 | 23 | 0-2 |
| | | | | 2549.5 | 40185 | 22.82 | 23 | 0-2 |
| | | | | 2593 | 40620 | 22.56 | 23 | 0-2 |
| | | | | 2636.5 | 41055 | 22.55 | 23 | 0-2 |
| | | | | 2680 | 41490 | 22.57 | 23 | 0-2 |
| | | | 25 | 2506 | 39750 | 22.59 | 23 | 0-2 |
| | | | | 2549.5 | 40185 | 22.74 | 23 | 0-2 |
| | | | | 2593 | 40620 | 22.54 | 23 | 0-2 |
| | | | | 2636.5 | 41055 | 22.37 | 23 | 0-2 |
| | | | | 2680 | 41490 | 22.57 | 23 | 0-2 |
| | | | 50 | 2506 | 39750 | 22.61 | 23 | 0-2 |
| | | | | 2549.5 | 40185 | 22.73 | 23 | 0-2 |
| | | | | 2593 | 40620 | 22.64 | 23 | 0-2 |
| | | | | 2636.5 | 41055 | 22.42 | 23 | 0-2 |
| | | | | 2680 | 41490 | 22.51 | 23 | 0-2 |
| | | 100RB | | 2506 | 39750 | 22.57 | 23 | 0-2 |
| | | | | 2549.5 | 40185 | 22.70 | 23 | 0-2 |
| | | | | 2593 | 40620 | 22.49 | 23 | 0-2 |
| | | | | 2636.5 | 41055 | 22.39 | 23 | 0-2 |
| | | | | 2680 | 41490 | 22.45 | 23 | 0-2 |

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| TDD Band 41 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15 | QPSK | 1 RB | 0 | 2503.5 | 39725 | 24.78 | 25 | 0 |
| | | | | 2548.3 | 40173 | 24.77 | 25 | 0 |
| | | | | 2593 | 40620 | 24.54 | 25 | 0 |
| | | | | 2637.8 | 41068 | 24.89 | 25 | 0 |
| | | | | 2682.5 | 41515 | 24.44 | 25 | 0 |
| | | | 36 | 2503.5 | 39725 | 24.52 | 25 | 0 |
| | | | | 2548.3 | 40173 | 24.71 | 25 | 0 |
| | | | | 2593 | 40620 | 24.65 | 25 | 0 |
| | | | | 2637.8 | 41068 | 24.71 | 25 | 0 |
| | | | | 2682.5 | 41515 | 24.37 | 25 | 0 |
| | | | 74 | 2503.5 | 39725 | 24.48 | 25 | 0 |
| | | | | 2548.3 | 40173 | 24.68 | 25 | 0 |
| | | | | 2593 | 40620 | 24.58 | 25 | 0 |
| | | | | 2637.8 | 41068 | 24.71 | 25 | 0 |
| | | | | 2682.5 | 41515 | 24.47 | 25 | 0 |
| | | 36 RB | 0 | 2503.5 | 39725 | 23.58 | 24 | 0-1 |
| | | | | 2548.3 | 40173 | 23.81 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.55 | 24 | 0-1 |
| | | | | 2637.8 | 41068 | 23.50 | 24 | 0-1 |
| | | | | 2682.5 | 41515 | 23.57 | 24 | 0-1 |
| | | | 18 | 2503.5 | 39725 | 23.61 | 24 | 0-1 |
| | | | | 2548.3 | 40173 | 23.82 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.57 | 24 | 0-1 |
| | | | | 2637.8 | 41068 | 23.59 | 24 | 0-1 |
| | | | | 2682.5 | 41515 | 23.53 | 24 | 0-1 |
| | | | 37 | 2503.5 | 39725 | 23.60 | 24 | 0-1 |
| | | | | 2548.3 | 40173 | 23.74 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.58 | 24 | 0-1 |
| | | | | 2637.8 | 41068 | 23.59 | 24 | 0-1 |
| | | | | 2682.5 | 41515 | 23.50 | 24 | 0-1 |
| | | 75RB | | 2503.5 | 39725 | 23.56 | 24 | 0-1 |
| | | | | 2548.3 | 40173 | 23.78 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.76 | 24 | 0-1 |
| | | | | 2637.8 | 41068 | 23.44 | 24 | 0-1 |
| | | | | 2682.5 | 41515 | 23.50 | 24 | 0-1 |

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| TDD Band 41 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15 | 16-QAM | 1 RB | 0 | 2503.5 | 39725 | 23.76 | 24 | 0-1 |
| | | | | 2548.3 | 40173 | 23.99 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.84 | 24 | 0-1 |
| | | | | 2637.8 | 41068 | 23.63 | 24 | 0-1 |
| | | | | 2682.5 | 41515 | 23.41 | 24 | 0-1 |
| | | | 36 | 2503.5 | 39725 | 23.72 | 24 | 0-1 |
| | | | | 2548.3 | 40173 | 23.58 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.70 | 24 | 0-1 |
| | | | | 2637.8 | 41068 | 23.57 | 24 | 0-1 |
| | | | | 2682.5 | 41515 | 23.65 | 24 | 0-1 |
| | | | 74 | 2503.5 | 39725 | 23.95 | 24 | 0-1 |
| | | | | 2548.3 | 40173 | 24.00 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.58 | 24 | 0-1 |
| | | | | 2637.8 | 41068 | 23.47 | 24 | 0-1 |
| | | | | 2682.5 | 41515 | 23.68 | 24 | 0-1 |
| | | 36 RB | 0 | 2503.5 | 39725 | 22.64 | 23 | 0-2 |
| | | | | 2548.3 | 40173 | 22.87 | 23 | 0-2 |
| | | | | 2593 | 40620 | 22.64 | 23 | 0-2 |
| | | | | 2637.8 | 41068 | 22.62 | 23 | 0-2 |
| | | | | 2682.5 | 41515 | 22.56 | 23 | 0-2 |
| | | | 18 | 2503.5 | 39725 | 22.67 | 23 | 0-2 |
| | | | | 2548.3 | 40173 | 22.80 | 23 | 0-2 |
| | | | | 2593 | 40620 | 22.69 | 23 | 0-2 |
| | | | | 2637.8 | 41068 | 22.49 | 23 | 0-2 |
| | | | | 2682.5 | 41515 | 22.58 | 23 | 0-2 |
| | | | 37 | 2503.5 | 39725 | 22.65 | 23 | 0-2 |
| | | | | 2548.3 | 40173 | 22.81 | 23 | 0-2 |
| | | | | 2593 | 40620 | 22.70 | 23 | 0-2 |
| | | | | 2637.8 | 41068 | 22.38 | 23 | 0-2 |
| | | | | 2682.5 | 41515 | 22.58 | 23 | 0-2 |
| | | 75RB | | 2503.5 | 39725 | 22.64 | 23 | 0-2 |
| | | | | 2548.3 | 40173 | 22.80 | 23 | 0-2 |
| | | | | 2593 | 40620 | 22.63 | 23 | 0-2 |
| | | | | 2637.8 | 41068 | 22.45 | 23 | 0-2 |
| | | | | 2682.5 | 41515 | 22.48 | 23 | 0-2 |

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| TDD Band 41 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 2501 | 39700 | 24.46 | 25 | 0 |
| | | | | 2547 | 40160 | 24.83 | 25 | 0 |
| | | | | 2593 | 40620 | 24.43 | 25 | 0 |
| | | | | 2639 | 41080 | 24.78 | 25 | 0 |
| | | | | 2685 | 41540 | 24.52 | 25 | 0 |
| | | | 25 | 2501 | 39700 | 24.47 | 25 | 0 |
| | | | | 2547 | 40160 | 24.83 | 25 | 0 |
| | | | | 2593 | 40620 | 24.57 | 25 | 0 |
| | | | | 2639 | 41080 | 24.59 | 25 | 0 |
| | | | | 2685 | 41540 | 24.38 | 25 | 0 |
| | | | 49 | 2501 | 39700 | 24.56 | 25 | 0 |
| | | | | 2547 | 40160 | 24.73 | 25 | 0 |
| | | | | 2593 | 40620 | 24.68 | 25 | 0 |
| | | | | 2639 | 41080 | 24.81 | 25 | 0 |
| | | | | 2685 | 41540 | 24.59 | 25 | 0 |
| | | 25 RB | 0 | 2501 | 39700 | 23.62 | 24 | 0-1 |
| | | | | 2547 | 40160 | 23.85 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.46 | 24 | 0-1 |
| | | | | 2639 | 41080 | 23.54 | 24 | 0-1 |
| | | | | 2685 | 41540 | 23.56 | 24 | 0-1 |
| | | | 12 | 2501 | 39700 | 23.62 | 24 | 0-1 |
| | | | | 2547 | 40160 | 23.84 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.48 | 24 | 0-1 |
| | | | | 2639 | 41080 | 23.79 | 24 | 0-1 |
| | | | | 2685 | 41540 | 23.58 | 24 | 0-1 |
| | | | 25 | 2501 | 39700 | 23.64 | 24 | 0-1 |
| | | | | 2547 | 40160 | 23.78 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.51 | 24 | 0-1 |
| | | | | 2639 | 41080 | 23.59 | 24 | 0-1 |
| | | | | 2685 | 41540 | 23.56 | 24 | 0-1 |
| | | 50RB | | 2501 | 39700 | 23.61 | 24 | 0-1 |
| | | | | 2547 | 40160 | 23.82 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.45 | 24 | 0-1 |
| | | | | 2639 | 41080 | 23.58 | 24 | 0-1 |
| | | | | 2685 | 41540 | 23.52 | 24 | 0-1 |

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| TDD Band 41 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | 16-QAM | 1 RB | 0 | 2501 | 39700 | 23.89 | 24 | 0-1 |
| | | | | 2547 | 40160 | 23.58 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.66 | 24 | 0-1 |
| | | | | 2639 | 41080 | 23.65 | 24 | 0-1 |
| | | | | 2685 | 41540 | 23.44 | 24 | 0-1 |
| | | | 25 | 2501 | 39700 | 23.79 | 24 | 0-1 |
| | | | | 2547 | 40160 | 23.73 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.78 | 24 | 0-1 |
| | | | | 2639 | 41080 | 23.65 | 24 | 0-1 |
| | | | | 2685 | 41540 | 23.51 | 24 | 0-1 |
| | | | 49 | 2501 | 39700 | 23.66 | 24 | 0-1 |
| | | | | 2547 | 40160 | 23.99 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.93 | 24 | 0-1 |
| | | | | 2639 | 41080 | 23.67 | 24 | 0-1 |
| | | | | 2685 | 41540 | 23.66 | 24 | 0-1 |
| | | 25 RB | 0 | 2501 | 39700 | 22.81 | 23 | 0-2 |
| | | | | 2547 | 40160 | 22.89 | 23 | 0-2 |
| | | | | 2593 | 40620 | 22.61 | 23 | 0-2 |
| | | | | 2639 | 41080 | 22.62 | 23 | 0-2 |
| | | | | 2685 | 41540 | 22.61 | 23 | 0-2 |
| | | | 12 | 2501 | 39700 | 22.72 | 23 | 0-2 |
| | | | | 2547 | 40160 | 22.91 | 23 | 0-2 |
| | | | | 2593 | 40620 | 22.48 | 23 | 0-2 |
| | | | | 2639 | 41080 | 22.60 | 23 | 0-2 |
| | | | | 2685 | 41540 | 22.69 | 23 | 0-2 |
| | | | 25 | 2501 | 39700 | 22.73 | 23 | 0-2 |
| | | | | 2547 | 40160 | 22.89 | 23 | 0-2 |
| | | | | 2593 | 40620 | 22.59 | 23 | 0-2 |
| | | | | 2639 | 41080 | 22.32 | 23 | 0-2 |
| | | | | 2685 | 41540 | 22.65 | 23 | 0-2 |
| | | 50RB | | 2501 | 39700 | 22.65 | 23 | 0-2 |
| | | | | 2547 | 40160 | 22.85 | 23 | 0-2 |
| | | | | 2593 | 40620 | 22.55 | 23 | 0-2 |
| | | | | 2639 | 41080 | 22.43 | 23 | 0-2 |
| | | | | 2685 | 41540 | 22.56 | 23 | 0-2 |

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| TDD Band 41 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 2498.5 | 39675 | 24.44 | 25 | 0 |
| | | | | 2547.8 | 40148 | 24.86 | 25 | 0 |
| | | | | 2593 | 40620 | 24.78 | 25 | 0 |
| | | | | 2640.3 | 41093 | 24.90 | 25 | 0 |
| | | | | 2687.5 | 41565 | 24.47 | 25 | 0 |
| | | | 12 | 2498.5 | 39675 | 24.53 | 25 | 0 |
| | | | | 2547.8 | 40148 | 24.68 | 25 | 0 |
| | | | | 2593 | 40620 | 24.54 | 25 | 0 |
| | | | | 2640.3 | 41093 | 24.86 | 25 | 0 |
| | | | | 2687.5 | 41565 | 24.42 | 25 | 0 |
| | | | 24 | 2498.5 | 39675 | 24.47 | 25 | 0 |
| | | | | 2547.8 | 40148 | 24.61 | 25 | 0 |
| | | | | 2593 | 40620 | 24.66 | 25 | 0 |
| | | | | 2640.3 | 41093 | 24.83 | 25 | 0 |
| | | | | 2687.5 | 41565 | 24.52 | 25 | 0 |
| | | 12 RB | 0 | 2498.5 | 39675 | 23.55 | 24 | 0-1 |
| | | | | 2547.8 | 40148 | 23.76 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.47 | 24 | 0-1 |
| | | | | 2640.3 | 41093 | 23.54 | 24 | 0-1 |
| | | | | 2687.5 | 41565 | 23.56 | 24 | 0-1 |
| | | | 6 | 2498.5 | 39675 | 23.54 | 24 | 0-1 |
| | | | | 2547.8 | 40148 | 23.78 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.43 | 24 | 0-1 |
| | | | | 2640.3 | 41093 | 23.54 | 24 | 0-1 |
| | | | | 2687.5 | 41565 | 23.55 | 24 | 0-1 |
| | | | 13 | 2498.5 | 39675 | 23.56 | 24 | 0-1 |
| | | | | 2547.8 | 40148 | 23.77 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.45 | 24 | 0-1 |
| | | | | 2640.3 | 41093 | 23.60 | 24 | 0-1 |
| | | | | 2687.5 | 41565 | 23.56 | 24 | 0-1 |
| | | 25RB | | 2498.5 | 39675 | 23.55 | 24 | 0-1 |
| | | | | 2547.8 | 40148 | 23.79 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.46 | 24 | 0-1 |
| | | | | 2640.3 | 41093 | 23.41 | 24 | 0-1 |
| | | | | 2687.5 | 41565 | 23.57 | 24 | 0-1 |

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| TDD Band 41 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | 16-QAM | 1 RB | 0 | 2498.5 | 39675 | 23.71 | 24 | 0-1 |
| | | | | 2547.8 | 40148 | 23.80 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.70 | 24 | 0-1 |
| | | | | 2640.3 | 41093 | 23.56 | 24 | 0-1 |
| | | | | 2687.5 | 41565 | 23.47 | 24 | 0-1 |
| | | | 12 | 2498.5 | 39675 | 23.24 | 24 | 0-1 |
| | | | | 2547.8 | 40148 | 23.85 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.41 | 24 | 0-1 |
| | | | | 2640.3 | 41093 | 23.52 | 24 | 0-1 |
| | | | | 2687.5 | 41565 | 23.83 | 24 | 0-1 |
| | | | 24 | 2498.5 | 39675 | 23.69 | 24 | 0-1 |
| | | | | 2547.8 | 40148 | 23.78 | 24 | 0-1 |
| | | | | 2593 | 40620 | 23.81 | 24 | 0-1 |
| | | | | 2640.3 | 41093 | 23.61 | 24 | 0-1 |
| | | | | 2687.5 | 41565 | 23.63 | 24 | 0-1 |
| | | 12 RB | 0 | 2498.5 | 39675 | 22.66 | 23 | 0-2 |
| | | | | 2547.8 | 40148 | 22.82 | 23 | 0-2 |
| | | | | 2593 | 40620 | 22.47 | 23 | 0-2 |
| | | | | 2640.3 | 41093 | 22.32 | 23 | 0-2 |
| | | | | 2687.5 | 41565 | 22.58 | 23 | 0-2 |
| | | | 6 | 2498.5 | 39675 | 22.68 | 23 | 0-2 |
| | | | | 2547.8 | 40148 | 22.81 | 23 | 0-2 |
| | | | | 2593 | 40620 | 22.54 | 23 | 0-2 |
| | | | | 2640.3 | 41093 | 22.45 | 23 | 0-2 |
| | | | | 2687.5 | 41565 | 22.64 | 23 | 0-2 |
| | | | 13 | 2498.5 | 39675 | 22.60 | 23 | 0-2 |
| | | | | 2547.8 | 40148 | 22.82 | 23 | 0-2 |
| | | | | 2593 | 40620 | 22.53 | 23 | 0-2 |
| | | | | 2640.3 | 41093 | 22.34 | 23 | 0-2 |
| | | | | 2687.5 | 41565 | 22.48 | 23 | 0-2 |
| | | 25RB | | 2498.5 | 39675 | 22.66 | 23 | 0-2 |
| | | | | 2547.8 | 40148 | 22.85 | 23 | 0-2 |
| | | | | 2593 | 40620 | 22.45 | 23 | 0-2 |
| | | | | 2640.3 | 41093 | 22.49 | 23 | 0-2 |
| | | | | 2687.5 | 41565 | 22.56 | 23 | 0-2 |

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| FDD Band 2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20 | QPSK | 1 RB | 0 | 1860 | 18700 | 16.29 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.31 | 16.5 | 0 |
| | | | | 1900 | 19100 | 16.33 | 16.5 | 0 |
| | | | 50 | 1860 | 18700 | 16.21 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.28 | 16.5 | 0 |
| | | | | 1900 | 19100 | 16.41 | 16.5 | 0 |
| | | | 99 | 1860 | 18700 | 16.26 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.32 | 16.5 | 0 |
| | | | | 1900 | 19100 | 16.20 | 16.5 | 0 |
| | | 50 RB | 0 | 1860 | 18700 | 16.34 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.25 | 16.5 | 0 |
| | | | | 1900 | 19100 | 16.23 | 16.5 | 0 |
| | | | 25 | 1860 | 18700 | 16.38 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.11 | 16.5 | 0 |
| | | | | 1900 | 19100 | 16.37 | 16.5 | 0 |
| | | | 50 | 1860 | 18700 | 16.24 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.18 | 16.5 | 0 |
| | | | | 1900 | 19100 | 16.34 | 16.5 | 0 |
| | | 100RB | | 1860 | 18700 | 16.39 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.29 | 16.5 | 0 |
| | | | | 1900 | 19100 | 16.13 | 16.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1860 | 18700 | 16.17 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.22 | 16.5 | 0 |
| | | | | 1900 | 19100 | 16.32 | 16.5 | 0 |
| | | | 50 | 1860 | 18700 | 16.22 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.33 | 16.5 | 0 |
| | | | | 1900 | 19100 | 16.21 | 16.5 | 0 |
| | | | 99 | 1860 | 18700 | 16.21 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.34 | 16.5 | 0 |
| | | | | 1900 | 19100 | 16.18 | 16.5 | 0 |
| | | 50 RB | 0 | 1860 | 18700 | 16.32 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.37 | 16.5 | 0 |
| | | | | 1900 | 19100 | 16.23 | 16.5 | 0 |
| | | | 25 | 1860 | 18700 | 16.23 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.18 | 16.5 | 0 |
| | | | | 1900 | 19100 | 16.19 | 16.5 | 0 |
| | | | 50 | 1860 | 18700 | 16.40 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.22 | 16.5 | 0 |
| | | | | 1900 | 19100 | 16.33 | 16.5 | 0 |
| | | 100RB | | 1860 | 18700 | 16.22 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.37 | 16.5 | 0 |
| | | | | 1900 | 19100 | 16.21 | 16.5 | 0 |

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| FDD Band 2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15 | QPSK | 1 RB | 0 | 1857.5 | 18675 | 16.16 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.37 | 16.5 | 0 |
| | | | | 1902.5 | 19125 | 16.37 | 16.5 | 0 |
| | | | 36 | 1857.5 | 18675 | 16.14 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.34 | 16.5 | 0 |
| | | | | 1902.5 | 19125 | 16.20 | 16.5 | 0 |
| | | | 74 | 1857.5 | 18675 | 16.13 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.26 | 16.5 | 0 |
| | | | | 1902.5 | 19125 | 16.28 | 16.5 | 0 |
| | | 36 RB | 0 | 1857.5 | 18675 | 16.32 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.33 | 16.5 | 0 |
| | | | | 1902.5 | 19125 | 16.16 | 16.5 | 0 |
| | | | 18 | 1857.5 | 18675 | 16.22 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.33 | 16.5 | 0 |
| | | | | 1902.5 | 19125 | 16.29 | 16.5 | 0 |
| | | | 37 | 1857.5 | 18675 | 16.32 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.37 | 16.5 | 0 |
| | | | | 1902.5 | 19125 | 16.11 | 16.5 | 0 |
| | | 75RB | | 1857.5 | 18675 | 16.20 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.22 | 16.5 | 0 |
| | | | | 1902.5 | 19125 | 16.39 | 16.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1857.5 | 18675 | 16.38 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.15 | 16.5 | 0 |
| | | | | 1902.5 | 19125 | 16.20 | 16.5 | 0 |
| | | | 36 | 1857.5 | 18675 | 16.36 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.27 | 16.5 | 0 |
| | | | | 1902.5 | 19125 | 16.36 | 16.5 | 0 |
| | | | 74 | 1857.5 | 18675 | 16.31 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.17 | 16.5 | 0 |
| | | | | 1902.5 | 19125 | 16.30 | 16.5 | 0 |
| | | 36 RB | 0 | 1857.5 | 18675 | 16.18 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.19 | 16.5 | 0 |
| | | | | 1902.5 | 19125 | 16.32 | 16.5 | 0 |
| | | | 18 | 1857.5 | 18675 | 16.13 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.21 | 16.5 | 0 |
| | | | | 1902.5 | 19125 | 16.39 | 16.5 | 0 |
| | | | 37 | 1857.5 | 18675 | 16.23 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.32 | 16.5 | 0 |
| | | | | 1902.5 | 19125 | 16.16 | 16.5 | 0 |
| | | 75RB | | 1857.5 | 18675 | 16.23 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.10 | 16.5 | 0 |
| | | | | 1902.5 | 19125 | 16.21 | 16.5 | 0 |

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| FDD Band 2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 1855 | 18650 | 16.25 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.30 | 16.5 | 0 |
| | | | | 1905 | 19150 | 16.15 | 16.5 | 0 |
| | | | 25 | 1855 | 18650 | 16.30 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.14 | 16.5 | 0 |
| | | | | 1905 | 19150 | 16.25 | 16.5 | 0 |
| | | | 49 | 1855 | 18650 | 16.31 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.37 | 16.5 | 0 |
| | | | | 1905 | 19150 | 16.29 | 16.5 | 0 |
| | | 25 RB | 0 | 1855 | 18650 | 16.14 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.16 | 16.5 | 0 |
| | | | | 1905 | 19150 | 16.11 | 16.5 | 0 |
| | | | 12 | 1855 | 18650 | 16.37 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.10 | 16.5 | 0 |
| | | | | 1905 | 19150 | 16.30 | 16.5 | 0 |
| | | | 25 | 1855 | 18650 | 16.11 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.17 | 16.5 | 0 |
| | | | | 1905 | 19150 | 16.38 | 16.5 | 0 |
| | | 50RB | | 1855 | 18650 | 16.13 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.24 | 16.5 | 0 |
| | | | | 1905 | 19150 | 16.29 | 16.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1855 | 18650 | 16.28 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.26 | 16.5 | 0 |
| | | | | 1905 | 19150 | 16.35 | 16.5 | 0 |
| | | | 25 | 1855 | 18650 | 16.12 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.16 | 16.5 | 0 |
| | | | | 1905 | 19150 | 16.29 | 16.5 | 0 |
| | | | 49 | 1855 | 18650 | 16.16 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.25 | 16.5 | 0 |
| | | | | 1905 | 19150 | 16.17 | 16.5 | 0 |
| | | 25 RB | 0 | 1855 | 18650 | 16.39 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.11 | 16.5 | 0 |
| | | | | 1905 | 19150 | 16.19 | 16.5 | 0 |
| | | | 12 | 1855 | 18650 | 16.35 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.24 | 16.5 | 0 |
| | | | | 1905 | 19150 | 16.34 | 16.5 | 0 |
| | | | 25 | 1855 | 18650 | 16.27 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.12 | 16.5 | 0 |
| | | | | 1905 | 19150 | 16.23 | 16.5 | 0 |
| | | 50RB | | 1855 | 18650 | 16.10 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.19 | 16.5 | 0 |
| | | | | 1905 | 19150 | 16.37 | 16.5 | 0 |

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| FDD Band 2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 1852.5 | 18625 | 16.23 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.14 | 16.5 | 0 |
| | | | | 1907.5 | 19175 | 16.21 | 16.5 | 0 |
| | | | 12 | 1852.5 | 18625 | 16.23 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.14 | 16.5 | 0 |
| | | | | 1907.5 | 19175 | 16.28 | 16.5 | 0 |
| | | | 24 | 1852.5 | 18625 | 16.40 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.11 | 16.5 | 0 |
| | | | | 1907.5 | 19175 | 16.34 | 16.5 | 0 |
| | | 12 RB | 0 | 1852.5 | 18625 | 16.29 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.37 | 16.5 | 0 |
| | | | | 1907.5 | 19175 | 16.26 | 16.5 | 0 |
| | | | 6 | 1852.5 | 18625 | 16.40 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.14 | 16.5 | 0 |
| | | | | 1907.5 | 19175 | 16.19 | 16.5 | 0 |
| | | | 13 | 1852.5 | 18625 | 16.29 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.22 | 16.5 | 0 |
| | | | | 1907.5 | 19175 | 16.40 | 16.5 | 0 |
| | | 25RB | | 1852.5 | 18625 | 16.22 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.17 | 16.5 | 0 |
| | | | | 1907.5 | 19175 | 16.40 | 16.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1852.5 | 18625 | 16.31 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.15 | 16.5 | 0 |
| | | | | 1907.5 | 19175 | 16.33 | 16.5 | 0 |
| | | | 12 | 1852.5 | 18625 | 16.27 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.28 | 16.5 | 0 |
| | | | | 1907.5 | 19175 | 16.20 | 16.5 | 0 |
| | | | 24 | 1852.5 | 18625 | 16.30 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.19 | 16.5 | 0 |
| | | | | 1907.5 | 19175 | 16.18 | 16.5 | 0 |
| | | 12 RB | 0 | 1852.5 | 18625 | 16.30 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.10 | 16.5 | 0 |
| | | | | 1907.5 | 19175 | 16.35 | 16.5 | 0 |
| | | | 6 | 1852.5 | 18625 | 16.40 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.40 | 16.5 | 0 |
| | | | | 1907.5 | 19175 | 16.34 | 16.5 | 0 |
| | | | 13 | 1852.5 | 18625 | 16.24 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.33 | 16.5 | 0 |
| | | | | 1907.5 | 19175 | 16.13 | 16.5 | 0 |
| | | 25RB | | 1852.5 | 18625 | 16.15 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.18 | 16.5 | 0 |
| | | | | 1907.5 | 19175 | 16.13 | 16.5 | 0 |

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| FDD Band 2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3 | QPSK | 1 RB | 0 | 1851.5 | 18615 | 16.12 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.37 | 16.5 | 0 |
| | | | | 1908.5 | 19185 | 16.36 | 16.5 | 0 |
| | | | 7 | 1851.5 | 18615 | 16.19 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.40 | 16.5 | 0 |
| | | | | 1908.5 | 19185 | 16.30 | 16.5 | 0 |
| | | | 14 | 1851.5 | 18615 | 16.34 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.36 | 16.5 | 0 |
| | | | | 1908.5 | 19185 | 16.22 | 16.5 | 0 |
| | | 8 RB | 0 | 1851.5 | 18615 | 16.40 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.11 | 16.5 | 0 |
| | | | | 1908.5 | 19185 | 16.27 | 16.5 | 0 |
| | | | 4 | 1851.5 | 18615 | 16.14 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.34 | 16.5 | 0 |
| | | | | 1908.5 | 19185 | 16.36 | 16.5 | 0 |
| | | | 7 | 1851.5 | 18615 | 16.34 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.37 | 16.5 | 0 |
| | | | | 1908.5 | 19185 | 16.28 | 16.5 | 0 |
| | | 15RB | | 1851.5 | 18615 | 16.16 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.19 | 16.5 | 0 |
| | | | | 1908.5 | 19185 | 16.15 | 16.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1851.5 | 18615 | 16.12 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.18 | 16.5 | 0 |
| | | | | 1908.5 | 19185 | 16.28 | 16.5 | 0 |
| | | | 7 | 1851.5 | 18615 | 16.33 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.23 | 16.5 | 0 |
| | | | | 1908.5 | 19185 | 16.31 | 16.5 | 0 |
| | | | 14 | 1851.5 | 18615 | 16.18 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.39 | 16.5 | 0 |
| | | | | 1908.5 | 19185 | 16.14 | 16.5 | 0 |
| | | 8 RB | 0 | 1851.5 | 18615 | 16.13 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.19 | 16.5 | 0 |
| | | | | 1908.5 | 19185 | 16.33 | 16.5 | 0 |
| | | | 4 | 1851.5 | 18615 | 16.28 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.16 | 16.5 | 0 |
| | | | | 1908.5 | 19185 | 16.24 | 16.5 | 0 |
| | | | 7 | 1851.5 | 18615 | 16.21 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.39 | 16.5 | 0 |
| | | | | 1908.5 | 19185 | 16.18 | 16.5 | 0 |
| | | 15RB | | 1851.5 | 18615 | 16.13 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.17 | 16.5 | 0 |
| | | | | 1908.5 | 19185 | 16.32 | 16.5 | 0 |

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| FDD Band 2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4 | QPSK | 1 RB | 0 | 1850.7 | 18607 | 16.38 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.20 | 16.5 | 0 |
| | | | | 1909.3 | 19193 | 16.39 | 16.5 | 0 |
| | | | 2 | 1850.7 | 18607 | 16.14 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.24 | 16.5 | 0 |
| | | | | 1909.3 | 19193 | 16.36 | 16.5 | 0 |
| | | | 5 | 1850.7 | 18607 | 16.22 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.35 | 16.5 | 0 |
| | | | | 1909.3 | 19193 | 16.29 | 16.5 | 0 |
| | | 3 RB | 0 | 1850.7 | 18607 | 16.18 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.15 | 16.5 | 0 |
| | | | | 1909.3 | 19193 | 16.37 | 16.5 | 0 |
| | | | 2 | 1850.7 | 18607 | 16.40 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.12 | 16.5 | 0 |
| | | | | 1909.3 | 19193 | 16.26 | 16.5 | 0 |
| | | | 3 | 1850.7 | 18607 | 16.11 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.14 | 16.5 | 0 |
| | | | | 1909.3 | 19193 | 16.29 | 16.5 | 0 |
| | | 6RB | | 1850.7 | 18607 | 16.37 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.35 | 16.5 | 0 |
| | | | | 1909.3 | 19193 | 16.29 | 16.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1850.7 | 18607 | 16.23 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.21 | 16.5 | 0 |
| | | | | 1909.3 | 19193 | 16.32 | 16.5 | 0 |
| | | | 2 | 1850.7 | 18607 | 16.19 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.11 | 16.5 | 0 |
| | | | | 1909.3 | 19193 | 16.36 | 16.5 | 0 |
| | | | 5 | 1850.7 | 18607 | 16.30 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.26 | 16.5 | 0 |
| | | | | 1909.3 | 19193 | 16.37 | 16.5 | 0 |
| | | 3 RB | 0 | 1850.7 | 18607 | 16.33 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.31 | 16.5 | 0 |
| | | | | 1909.3 | 19193 | 16.30 | 16.5 | 0 |
| | | | 2 | 1850.7 | 18607 | 16.37 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.24 | 16.5 | 0 |
| | | | | 1909.3 | 19193 | 16.19 | 16.5 | 0 |
| | | | 3 | 1850.7 | 18607 | 16.16 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.18 | 16.5 | 0 |
| | | | | 1909.3 | 19193 | 16.37 | 16.5 | 0 |
| | | 6RB | | 1850.7 | 18607 | 16.15 | 16.5 | 0 |
| | | | | 1880 | 18900 | 16.17 | 16.5 | 0 |
| | | | | 1909.3 | 19193 | 16.16 | 16.5 | 0 |

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| FDD Band 4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20 | QPSK | 1 RB | 0 | 1720 | 20050 | 18.18 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 17.97 | 18.5 | 0 |
| | | | | 1745 | 20300 | 18.13 | 18.5 | 0 |
| | | | 50 | 1720 | 20050 | 18.27 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.17 | 18.5 | 0 |
| | | | | 1745 | 20300 | 18.16 | 18.5 | 0 |
| | | | 99 | 1720 | 20050 | 18.23 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.19 | 18.5 | 0 |
| | | | | 1745 | 20300 | 18.17 | 18.5 | 0 |
| | | 50 RB | 0 | 1720 | 20050 | 18.12 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.21 | 18.5 | 0 |
| | | | | 1745 | 20300 | 18.07 | 18.5 | 0 |
| | | | 25 | 1720 | 20050 | 18.23 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.08 | 18.5 | 0 |
| | | | | 1745 | 20300 | 18.06 | 18.5 | 0 |
| | | | 50 | 1720 | 20050 | 18.16 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.13 | 18.5 | 0 |
| | | | | 1745 | 20300 | 18.09 | 18.5 | 0 |
| | | 100RB | | 1720 | 20050 | 18.04 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.11 | 18.5 | 0 |
| | | | | 1745 | 20300 | 17.98 | 18.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1720 | 20050 | 18.08 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.22 | 18.5 | 0 |
| | | | | 1745 | 20300 | 18.00 | 18.5 | 0 |
| | | | 50 | 1720 | 20050 | 18.23 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.14 | 18.5 | 0 |
| | | | | 1745 | 20300 | 18.25 | 18.5 | 0 |
| | | | 99 | 1720 | 20050 | 18.21 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.14 | 18.5 | 0 |
| | | | | 1745 | 20300 | 18.00 | 18.5 | 0 |
| | | 50 RB | 0 | 1720 | 20050 | 18.20 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.02 | 18.5 | 0 |
| | | | | 1745 | 20300 | 18.11 | 18.5 | 0 |
| | | | 25 | 1720 | 20050 | 18.06 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.07 | 18.5 | 0 |
| | | | | 1745 | 20300 | 18.14 | 18.5 | 0 |
| | | | 50 | 1720 | 20050 | 18.25 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.10 | 18.5 | 0 |
| | | | | 1745 | 20300 | 18.00 | 18.5 | 0 |
| | | 100RB | | 1720 | 20050 | 18.13 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.05 | 18.5 | 0 |
| | | | | 1745 | 20300 | 18.15 | 18.5 | 0 |

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| FDD Band 4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15 | QPSK | 1 RB | 0 | 1717.5 | 20025 | 18.19 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.08 | 18.5 | 0 |
| | | | | 1747.5 | 20325 | 18.10 | 18.5 | 0 |
| | | | 36 | 1717.5 | 20025 | 18.12 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.23 | 18.5 | 0 |
| | | | | 1747.5 | 20325 | 18.23 | 18.5 | 0 |
| | | | 74 | 1717.5 | 20025 | 18.18 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.07 | 18.5 | 0 |
| | | | | 1747.5 | 20325 | 18.04 | 18.5 | 0 |
| | | 36 RB | 0 | 1717.5 | 20025 | 18.25 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.14 | 18.5 | 0 |
| | | | | 1747.5 | 20325 | 18.24 | 18.5 | 0 |
| | | | 18 | 1717.5 | 20025 | 17.98 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 17.97 | 18.5 | 0 |
| | | | | 1747.5 | 20325 | 18.03 | 18.5 | 0 |
| | | | 37 | 1717.5 | 20025 | 18.08 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.13 | 18.5 | 0 |
| | | | | 1747.5 | 20325 | 18.09 | 18.5 | 0 |
| | | 75RB | | 1717.5 | 20025 | 18.08 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.03 | 18.5 | 0 |
| | | | | 1747.5 | 20325 | 18.09 | 18.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1717.5 | 20025 | 18.19 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.21 | 18.5 | 0 |
| | | | | 1747.5 | 20325 | 17.96 | 18.5 | 0 |
| | | | 36 | 1717.5 | 20025 | 18.02 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.04 | 18.5 | 0 |
| | | | | 1747.5 | 20325 | 18.08 | 18.5 | 0 |
| | | | 74 | 1717.5 | 20025 | 17.99 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.25 | 18.5 | 0 |
| | | | | 1747.5 | 20325 | 18.25 | 18.5 | 0 |
| | | 36 RB | 0 | 1717.5 | 20025 | 18.09 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.22 | 18.5 | 0 |
| | | | | 1747.5 | 20325 | 18.25 | 18.5 | 0 |
| | | | 18 | 1717.5 | 20025 | 17.99 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 17.96 | 18.5 | 0 |
| | | | | 1747.5 | 20325 | 18.20 | 18.5 | 0 |
| | | | 37 | 1717.5 | 20025 | 18.12 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.04 | 18.5 | 0 |
| | | | | 1747.5 | 20325 | 18.09 | 18.5 | 0 |
| | | 75RB | | 1717.5 | 20025 | 18.25 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.04 | 18.5 | 0 |
| | | | | 1747.5 | 20325 | 17.98 | 18.5 | 0 |

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| FDD Band 4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 1715 | 20000 | 18.25 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.21 | 18.5 | 0 |
| | | | | 1750 | 20350 | 18.05 | 18.5 | 0 |
| | | | 25 | 1715 | 20000 | 18.05 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.01 | 18.5 | 0 |
| | | | | 1750 | 20350 | 18.20 | 18.5 | 0 |
| | | | 49 | 1715 | 20000 | 18.05 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.18 | 18.5 | 0 |
| | | | | 1750 | 20350 | 18.11 | 18.5 | 0 |
| | | 25 RB | 0 | 1715 | 20000 | 18.25 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 17.99 | 18.5 | 0 |
| | | | | 1750 | 20350 | 18.16 | 18.5 | 0 |
| | | | 12 | 1715 | 20000 | 18.03 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.03 | 18.5 | 0 |
| | | | | 1750 | 20350 | 18.08 | 18.5 | 0 |
| | | | 25 | 1715 | 20000 | 18.08 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.25 | 18.5 | 0 |
| | | | | 1750 | 20350 | 18.24 | 18.5 | 0 |
| | | 50RB | | 1715 | 20000 | 18.15 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.20 | 18.5 | 0 |
| | | | | 1750 | 20350 | 18.11 | 18.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1715 | 20000 | 17.96 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 17.97 | 18.5 | 0 |
| | | | | 1750 | 20350 | 18.11 | 18.5 | 0 |
| | | | 25 | 1715 | 20000 | 18.10 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.01 | 18.5 | 0 |
| | | | | 1750 | 20350 | 17.99 | 18.5 | 0 |
| | | | 49 | 1715 | 20000 | 18.14 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.02 | 18.5 | 0 |
| | | | | 1750 | 20350 | 18.15 | 18.5 | 0 |
| | | 25 RB | 0 | 1715 | 20000 | 18.00 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.24 | 18.5 | 0 |
| | | | | 1750 | 20350 | 18.05 | 18.5 | 0 |
| | | | 12 | 1715 | 20000 | 18.26 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.03 | 18.5 | 0 |
| | | | | 1750 | 20350 | 18.12 | 18.5 | 0 |
| | | | 25 | 1715 | 20000 | 18.17 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.02 | 18.5 | 0 |
| | | | | 1750 | 20350 | 18.07 | 18.5 | 0 |
| | | 50RB | | 1715 | 20000 | 18.04 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.01 | 18.5 | 0 |
| | | | | 1750 | 20350 | 18.03 | 18.5 | 0 |

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| FDD Band 4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 1712.5 | 19975 | 18.01 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.10 | 18.5 | 0 |
| | | | | 1752.5 | 20375 | 18.06 | 18.5 | 0 |
| | | | 12 | 1712.5 | 19975 | 17.99 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.07 | 18.5 | 0 |
| | | | | 1752.5 | 20375 | 18.08 | 18.5 | 0 |
| | | | 24 | 1712.5 | 19975 | 18.06 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.13 | 18.5 | 0 |
| | | | | 1752.5 | 20375 | 17.97 | 18.5 | 0 |
| | | 12 RB | 0 | 1712.5 | 19975 | 18.25 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.04 | 18.5 | 0 |
| | | | | 1752.5 | 20375 | 18.10 | 18.5 | 0 |
| | | | 6 | 1712.5 | 19975 | 18.14 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.06 | 18.5 | 0 |
| | | | | 1752.5 | 20375 | 18.11 | 18.5 | 0 |
| | | | 13 | 1712.5 | 19975 | 18.21 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.10 | 18.5 | 0 |
| | | | | 1752.5 | 20375 | 18.05 | 18.5 | 0 |
| | | 25RB | | 1712.5 | 19975 | 18.05 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 17.97 | 18.5 | 0 |
| | | | | 1752.5 | 20375 | 18.14 | 18.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1712.5 | 19975 | 18.16 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.09 | 18.5 | 0 |
| | | | | 1752.5 | 20375 | 18.02 | 18.5 | 0 |
| | | | 12 | 1712.5 | 19975 | 18.03 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.02 | 18.5 | 0 |
| | | | | 1752.5 | 20375 | 18.19 | 18.5 | 0 |
| | | | 24 | 1712.5 | 19975 | 18.23 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.00 | 18.5 | 0 |
| | | | | 1752.5 | 20375 | 17.97 | 18.5 | 0 |
| | | 12 RB | 0 | 1712.5 | 19975 | 18.05 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.18 | 18.5 | 0 |
| | | | | 1752.5 | 20375 | 18.22 | 18.5 | 0 |
| | | | 6 | 1712.5 | 19975 | 17.97 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.01 | 18.5 | 0 |
| | | | | 1752.5 | 20375 | 17.98 | 18.5 | 0 |
| | | | 13 | 1712.5 | 19975 | 18.18 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.19 | 18.5 | 0 |
| | | | | 1752.5 | 20375 | 18.15 | 18.5 | 0 |
| | | 25RB | | 1712.5 | 19975 | 18.09 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.15 | 18.5 | 0 |
| | | | | 1752.5 | 20375 | 18.05 | 18.5 | 0 |

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| FDD Band 4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3 | QPSK | 1 RB | 0 | 1711.5 | 19965 | 18.09 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.17 | 18.5 | 0 |
| | | | | 1753.5 | 20385 | 18.16 | 18.5 | 0 |
| | | | 7 | 1711.5 | 19965 | 18.16 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.09 | 18.5 | 0 |
| | | | | 1753.5 | 20385 | 18.25 | 18.5 | 0 |
| | | | 14 | 1711.5 | 19965 | 18.10 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.20 | 18.5 | 0 |
| | | | | 1753.5 | 20385 | 18.10 | 18.5 | 0 |
| | | 8 RB | 0 | 1711.5 | 19965 | 17.98 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.21 | 18.5 | 0 |
| | | | | 1753.5 | 20385 | 18.15 | 18.5 | 0 |
| | | | 4 | 1711.5 | 19965 | 18.15 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.19 | 18.5 | 0 |
| | | | | 1753.5 | 20385 | 18.09 | 18.5 | 0 |
| | | | 7 | 1711.5 | 19965 | 18.09 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 17.98 | 18.5 | 0 |
| | | | | 1753.5 | 20385 | 18.05 | 18.5 | 0 |
| | | 15RB | | 1711.5 | 19965 | 18.16 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.18 | 18.5 | 0 |
| | | | | 1753.5 | 20385 | 18.24 | 18.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1711.5 | 19965 | 18.06 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.15 | 18.5 | 0 |
| | | | | 1753.5 | 20385 | 18.07 | 18.5 | 0 |
| | | | 7 | 1711.5 | 19965 | 17.99 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.06 | 18.5 | 0 |
| | | | | 1753.5 | 20385 | 18.13 | 18.5 | 0 |
| | | | 14 | 1711.5 | 19965 | 18.24 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.12 | 18.5 | 0 |
| | | | | 1753.5 | 20385 | 18.23 | 18.5 | 0 |
| | | 8 RB | 0 | 1711.5 | 19965 | 18.09 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.26 | 18.5 | 0 |
| | | | | 1753.5 | 20385 | 17.98 | 18.5 | 0 |
| | | | 4 | 1711.5 | 19965 | 18.20 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.16 | 18.5 | 0 |
| | | | | 1753.5 | 20385 | 18.11 | 18.5 | 0 |
| | | | 7 | 1711.5 | 19965 | 18.09 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.23 | 18.5 | 0 |
| | | | | 1753.5 | 20385 | 18.14 | 18.5 | 0 |
| | | 15RB | | 1711.5 | 19965 | 18.12 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.21 | 18.5 | 0 |
| | | | | 1753.5 | 20385 | 18.25 | 18.5 | 0 |

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| FDD Band 4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4 | QPSK | 1 RB | 0 | 1710.7 | 19957 | 18.26 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.17 | 18.5 | 0 |
| | | | | 1754.3 | 20393 | 18.07 | 18.5 | 0 |
| | | | 2 | 1710.7 | 19957 | 18.08 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.24 | 18.5 | 0 |
| | | | | 1754.3 | 20393 | 18.10 | 18.5 | 0 |
| | | | 5 | 1710.7 | 19957 | 18.17 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.11 | 18.5 | 0 |
| | | | | 1754.3 | 20393 | 18.06 | 18.5 | 0 |
| | | 3 RB | 0 | 1710.7 | 19957 | 18.00 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.09 | 18.5 | 0 |
| | | | | 1754.3 | 20393 | 18.14 | 18.5 | 0 |
| | | | 2 | 1710.7 | 19957 | 18.18 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.03 | 18.5 | 0 |
| | | | | 1754.3 | 20393 | 18.03 | 18.5 | 0 |
| | | | 3 | 1710.7 | 19957 | 18.00 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.16 | 18.5 | 0 |
| | | | | 1754.3 | 20393 | 18.00 | 18.5 | 0 |
| | | 6RB | | 1710.7 | 19957 | 18.07 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.15 | 18.5 | 0 |
| | | | | 1754.3 | 20393 | 18.05 | 18.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1710.7 | 19957 | 17.97 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.12 | 18.5 | 0 |
| | | | | 1754.3 | 20393 | 18.25 | 18.5 | 0 |
| | | | 2 | 1710.7 | 19957 | 18.04 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.09 | 18.5 | 0 |
| | | | | 1754.3 | 20393 | 18.22 | 18.5 | 0 |
| | | | 5 | 1710.7 | 19957 | 18.03 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.18 | 18.5 | 0 |
| | | | | 1754.3 | 20393 | 18.14 | 18.5 | 0 |
| | | 3 RB | 0 | 1710.7 | 19957 | 18.05 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.23 | 18.5 | 0 |
| | | | | 1754.3 | 20393 | 18.24 | 18.5 | 0 |
| | | | 2 | 1710.7 | 19957 | 18.14 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.03 | 18.5 | 0 |
| | | | | 1754.3 | 20393 | 18.06 | 18.5 | 0 |
| | | | 3 | 1710.7 | 19957 | 18.22 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.00 | 18.5 | 0 |
| | | | | 1754.3 | 20393 | 18.18 | 18.5 | 0 |
| | | 6RB | | 1710.7 | 19957 | 18.20 | 18.5 | 0 |
| | | | | 1732.5 | 20175 | 18.18 | 18.5 | 0 |
| | | | | 1754.3 | 20393 | 17.98 | 18.5 | 0 |

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| FDD Band 5 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 829 | 20450 | 22.20 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.13 | 22.5 | 0 |
| | | | | 844 | 20600 | 22.32 | 22.5 | 0 |
| | | | 25 | 829 | 20450 | 22.13 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.43 | 22.5 | 0 |
| | | | | 844 | 20600 | 22.40 | 22.5 | 0 |
| | | | 49 | 829 | 20450 | 22.20 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.38 | 22.5 | 0 |
| | | | | 844 | 20600 | 22.32 | 22.5 | 0 |
| | | 25 RB | 0 | 829 | 20450 | 22.14 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.17 | 22.5 | 0 |
| | | | | 844 | 20600 | 22.32 | 22.5 | 0 |
| | | | 12 | 829 | 20450 | 22.38 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.39 | 22.5 | 0 |
| | | | | 844 | 20600 | 22.30 | 22.5 | 0 |
| | | | 25 | 829 | 20450 | 22.20 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.40 | 22.5 | 0 |
| | | | | 844 | 20600 | 22.13 | 22.5 | 0 |
| | | 50RB | | 829 | 20450 | 22.18 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.30 | 22.5 | 0 |
| | | | | 844 | 20600 | 22.13 | 22.5 | 0 |
| | 16-QAM | 1 RB | 0 | 829 | 20450 | 22.15 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.32 | 22.5 | 0 |
| | | | | 844 | 20600 | 22.17 | 22.5 | 0 |
| | | | 25 | 829 | 20450 | 22.16 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.40 | 22.5 | 0 |
| | | | | 844 | 20600 | 22.12 | 22.5 | 0 |
| | | | 49 | 829 | 20450 | 22.26 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.36 | 22.5 | 0 |
| | | | | 844 | 20600 | 22.13 | 22.5 | 0 |
| | | 25 RB | 0 | 829 | 20450 | 22.26 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.30 | 22.5 | 0 |
| | | | | 844 | 20600 | 22.24 | 22.5 | 0 |
| | | | 12 | 829 | 20450 | 22.23 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.25 | 22.5 | 0 |
| | | | | 844 | 20600 | 22.26 | 22.5 | 0 |
| | | | 25 | 829 | 20450 | 22.23 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.17 | 22.5 | 0 |
| | | | | 844 | 20600 | 22.35 | 22.5 | 0 |
| | | 500RB | | 829 | 20450 | 22.39 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.20 | 22.5 | 0 |
| | | | | 844 | 20600 | 22.35 | 22.5 | 0 |

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| FDD Band 5 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 826.5 | 20425 | 22.29 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.28 | 22.5 | 0 |
| | | | | 846.5 | 20625 | 22.42 | 22.5 | 0 |
| | | | 12 | 826.5 | 20425 | 22.36 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.33 | 22.5 | 0 |
| | | | | 846.5 | 20625 | 22.17 | 22.5 | 0 |
| | | | 24 | 826.5 | 20425 | 22.30 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.39 | 22.5 | 0 |
| | | | | 846.5 | 20625 | 22.33 | 22.5 | 0 |
| | | 12 RB | 0 | 826.5 | 20425 | 22.27 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.32 | 22.5 | 0 |
| | | | | 846.5 | 20625 | 22.35 | 22.5 | 0 |
| | | | 6 | 826.5 | 20425 | 22.34 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.41 | 22.5 | 0 |
| | | | | 846.5 | 20625 | 22.37 | 22.5 | 0 |
| | | | 13 | 826.5 | 20425 | 22.40 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.42 | 22.5 | 0 |
| | | | | 846.5 | 20625 | 22.13 | 22.5 | 0 |
| | | 25RB | | 826.5 | 20425 | 22.17 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.32 | 22.5 | 0 |
| | | | | 846.5 | 20625 | 22.28 | 22.5 | 0 |
| | 16-QAM | 1 RB | 0 | 826.5 | 20425 | 22.29 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.38 | 22.5 | 0 |
| | | | | 846.5 | 20625 | 22.33 | 22.5 | 0 |
| | | | 12 | 826.5 | 20425 | 22.42 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.25 | 22.5 | 0 |
| | | | | 846.5 | 20625 | 22.38 | 22.5 | 0 |
| | | | 24 | 826.5 | 20425 | 22.36 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.19 | 22.5 | 0 |
| | | | | 846.5 | 20625 | 22.35 | 22.5 | 0 |
| | | 12 RB | 0 | 826.5 | 20425 | 22.13 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.33 | 22.5 | 0 |
| | | | | 846.5 | 20625 | 22.39 | 22.5 | 0 |
| | | | 6 | 826.5 | 20425 | 22.41 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.24 | 22.5 | 0 |
| | | | | 846.5 | 20625 | 22.37 | 22.5 | 0 |
| | | | 13 | 826.5 | 20425 | 22.40 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.13 | 22.5 | 0 |
| | | | | 846.5 | 20625 | 22.19 | 22.5 | 0 |
| | | 25RB | | 826.5 | 20425 | 22.34 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.23 | 22.5 | 0 |
| | | | | 846.5 | 20625 | 22.13 | 22.5 | 0 |

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| FDD Band 5 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3 | QPSK | 1 RB | 0 | 825.5 | 20415 | 22.32 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.32 | 22.5 | 0 |
| | | | | 847.5 | 20635 | 22.27 | 22.5 | 0 |
| | | | 7 | 825.5 | 20415 | 22.15 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.40 | 22.5 | 0 |
| | | | | 847.5 | 20635 | 22.26 | 22.5 | 0 |
| | | | 14 | 825.5 | 20415 | 22.38 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.40 | 22.5 | 0 |
| | | | | 847.5 | 20635 | 22.26 | 22.5 | 0 |
| | | 8 RB | 0 | 825.5 | 20415 | 22.16 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.15 | 22.5 | 0 |
| | | | | 847.5 | 20635 | 22.15 | 22.5 | 0 |
| | | | 4 | 825.5 | 20415 | 22.22 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.28 | 22.5 | 0 |
| | | | | 847.5 | 20635 | 22.15 | 22.5 | 0 |
| | | | 7 | 825.5 | 20415 | 22.23 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.42 | 22.5 | 0 |
| | | | | 847.5 | 20635 | 22.39 | 22.5 | 0 |
| | | 15RB | | 825.5 | 20415 | 22.36 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.32 | 22.5 | 0 |
| | | | | 847.5 | 20635 | 22.24 | 22.5 | 0 |
| | 16-QAM | 1 RB | 0 | 825.5 | 20415 | 22.24 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.38 | 22.5 | 0 |
| | | | | 847.5 | 20635 | 22.14 | 22.5 | 0 |
| | | | 7 | 825.5 | 20415 | 22.13 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.14 | 22.5 | 0 |
| | | | | 847.5 | 20635 | 22.23 | 22.5 | 0 |
| | | | 14 | 825.5 | 20415 | 22.33 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.13 | 22.5 | 0 |
| | | | | 847.5 | 20635 | 22.15 | 22.5 | 0 |
| | | 8 RB | 0 | 825.5 | 20415 | 22.26 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.38 | 22.5 | 0 |
| | | | | 847.5 | 20635 | 22.30 | 22.5 | 0 |
| | | | 4 | 825.5 | 20415 | 22.22 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.21 | 22.5 | 0 |
| | | | | 847.5 | 20635 | 22.18 | 22.5 | 0 |
| | | | 7 | 825.5 | 20415 | 22.34 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.27 | 22.5 | 0 |
| | | | | 847.5 | 20635 | 22.31 | 22.5 | 0 |
| | | 15RB | | 825.5 | 20415 | 22.14 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.27 | 22.5 | 0 |
| | | | | 847.5 | 20635 | 22.17 | 22.5 | 0 |

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| FDD Band 5 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4 | QPSK | 1 RB | 0 | 824.7 | 20407 | 22.18 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.17 | 22.5 | 0 |
| | | | | 848.3 | 20643 | 22.25 | 22.5 | 0 |
| | | | 2 | 824.7 | 20407 | 22.38 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.22 | 22.5 | 0 |
| | | | | 848.3 | 20643 | 22.42 | 22.5 | 0 |
| | | | 5 | 824.7 | 20407 | 22.40 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.24 | 22.5 | 0 |
| | | | | 848.3 | 20643 | 22.14 | 22.5 | 0 |
| | | 3 RB | 0 | 824.7 | 20407 | 22.25 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.24 | 22.5 | 0 |
| | | | | 848.3 | 20643 | 22.21 | 22.5 | 0 |
| | | | 2 | 824.7 | 20407 | 22.20 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.19 | 22.5 | 0 |
| | | | | 848.3 | 20643 | 22.15 | 22.5 | 0 |
| | | | 3 | 824.7 | 20407 | 22.28 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.39 | 22.5 | 0 |
| | | | | 848.3 | 20643 | 22.32 | 22.5 | 0 |
| | | 6RB | | 824.7 | 20407 | 22.37 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.28 | 22.5 | 0 |
| | | | | 848.3 | 20643 | 22.26 | 22.5 | 0 |
| | 16-QAM | 1 RB | 0 | 824.7 | 20407 | 22.41 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.15 | 22.5 | 0 |
| | | | | 848.3 | 20643 | 22.33 | 22.5 | 0 |
| | | | 2 | 824.7 | 20407 | 22.25 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.30 | 22.5 | 0 |
| | | | | 848.3 | 20643 | 22.38 | 22.5 | 0 |
| | | | 5 | 824.7 | 20407 | 22.24 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.23 | 22.5 | 0 |
| | | | | 848.3 | 20643 | 22.34 | 22.5 | 0 |
| | | 3 RB | 0 | 824.7 | 20407 | 22.25 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.23 | 22.5 | 0 |
| | | | | 848.3 | 20643 | 22.15 | 22.5 | 0 |
| | | | 2 | 824.7 | 20407 | 22.34 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.29 | 22.5 | 0 |
| | | | | 848.3 | 20643 | 22.14 | 22.5 | 0 |
| | | | 3 | 824.7 | 20407 | 22.17 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.32 | 22.5 | 0 |
| | | | | 848.3 | 20643 | 22.36 | 22.5 | 0 |
| | | 6RB | | 824.7 | 20407 | 22.37 | 22.5 | 0 |
| | | | | 836.5 | 20525 | 22.23 | 22.5 | 0 |
| | | | | 848.3 | 20643 | 22.39 | 22.5 | 0 |

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| FDD Band 7 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20 | QPSK | 1 RB | 0 | 2510 | 20850 | 16.86 | 17 | 0 |
| | | | | 2535 | 21100 | 16.88 | 17 | 0 |
| | | | | 2560 | 21350 | 16.91 | 17 | 0 |
| | | | 50 | 2510 | 20850 | 16.94 | 17 | 0 |
| | | | | 2535 | 21100 | 16.92 | 17 | 0 |
| | | | | 2560 | 21350 | 16.79 | 17 | 0 |
| | | | 99 | 2510 | 20850 | 16.73 | 17 | 0 |
| | | | | 2535 | 21100 | 16.89 | 17 | 0 |
| | | | | 2560 | 21350 | 16.77 | 17 | 0 |
| | | 50 RB | 0 | 2510 | 20850 | 16.92 | 17 | 0 |
| | | | | 2535 | 21100 | 16.92 | 17 | 0 |
| | | | | 2560 | 21350 | 16.88 | 17 | 0 |
| | | | 25 | 2510 | 20850 | 16.81 | 17 | 0 |
| | | | | 2535 | 21100 | 16.75 | 17 | 0 |
| | | | | 2560 | 21350 | 16.82 | 17 | 0 |
| | | | 50 | 2510 | 20850 | 16.87 | 17 | 0 |
| | | | | 2535 | 21100 | 16.93 | 17 | 0 |
| | | | | 2560 | 21350 | 16.78 | 17 | 0 |
| | | 100RB | | 2510 | 20850 | 16.84 | 17 | 0 |
| | | | | 2535 | 21100 | 16.86 | 17 | 0 |
| | | | | 2560 | 21350 | 16.78 | 17 | 0 |
| | 16-QAM | 1 RB | 0 | 2510 | 20850 | 16.80 | 17 | 0 |
| | | | | 2535 | 21100 | 16.83 | 17 | 0 |
| | | | | 2560 | 21350 | 16.76 | 17 | 0 |
| | | | 50 | 2510 | 20850 | 16.91 | 17 | 0 |
| | | | | 2535 | 21100 | 16.79 | 17 | 0 |
| | | | | 2560 | 21350 | 16.88 | 17 | 0 |
| | | | 99 | 2510 | 20850 | 16.81 | 17 | 0 |
| | | | | 2535 | 21100 | 16.87 | 17 | 0 |
| | | | | 2560 | 21350 | 16.79 | 17 | 0 |
| | | 50 RB | 0 | 2510 | 20850 | 16.83 | 17 | 0 |
| | | | | 2535 | 21100 | 16.81 | 17 | 0 |
| | | | | 2560 | 21350 | 16.77 | 17 | 0 |
| | | | 25 | 2510 | 20850 | 16.85 | 17 | 0 |
| | | | | 2535 | 21100 | 16.90 | 17 | 0 |
| | | | | 2560 | 21350 | 16.90 | 17 | 0 |
| | | | 50 | 2510 | 20850 | 16.81 | 17 | 0 |
| | | | | 2535 | 21100 | 16.75 | 17 | 0 |
| | | | | 2560 | 21350 | 16.84 | 17 | 0 |
| | | 100RB | | 2510 | 20850 | 16.76 | 17 | 0 |
| | | | | 2535 | 21100 | 16.85 | 17 | 0 |
| | | | | 2560 | 21350 | 16.82 | 17 | 0 |

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| FDD Band 7 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15 | QPSK | 1 RB | 0 | 2507.5 | 20825 | 16.76 | 17 | 0 |
| | | | | 2535 | 21100 | 16.88 | 17 | 0 |
| | | | | 2562.5 | 21375 | 16.90 | 17 | 0 |
| | | | 36 | 2507.5 | 20825 | 16.83 | 17 | 0 |
| | | | | 2535 | 21100 | 16.92 | 17 | 0 |
| | | | | 2562.5 | 21375 | 16.76 | 17 | 0 |
| | | | 74 | 2507.5 | 20825 | 16.81 | 17 | 0 |
| | | | | 2535 | 21100 | 16.77 | 17 | 0 |
| | | | | 2562.5 | 21375 | 16.84 | 17 | 0 |
| | | 36 RB | 0 | 2507.5 | 20825 | 16.84 | 17 | 0 |
| | | | | 2535 | 21100 | 16.74 | 17 | 0 |
| | | | | 2562.5 | 21375 | 16.85 | 17 | 0 |
| | | | 18 | 2507.5 | 20825 | 16.83 | 17 | 0 |
| | | | | 2535 | 21100 | 16.83 | 17 | 0 |
| | | | | 2562.5 | 21375 | 16.75 | 17 | 0 |
| | | | 37 | 2507.5 | 20825 | 16.75 | 17 | 0 |
| | | | | 2535 | 21100 | 16.90 | 17 | 0 |
| | | | | 2562.5 | 21375 | 16.89 | 17 | 0 |
| | | 75RB | | 2507.5 | 20825 | 16.84 | 17 | 0 |
| | | | | 2535 | 21100 | 16.76 | 17 | 0 |
| | | | | 2562.5 | 21375 | 16.73 | 17 | 0 |
| | 16-QAM | 1 RB | 0 | 2507.5 | 20825 | 16.73 | 17 | 0 |
| | | | | 2535 | 21100 | 16.80 | 17 | 0 |
| | | | | 2562.5 | 21375 | 16.87 | 17 | 0 |
| | | | 36 | 2507.5 | 20825 | 16.77 | 17 | 0 |
| | | | | 2535 | 21100 | 16.75 | 17 | 0 |
| | | | | 2562.5 | 21375 | 16.91 | 17 | 0 |
| | | | 74 | 2507.5 | 20825 | 16.89 | 17 | 0 |
| | | | | 2535 | 21100 | 16.86 | 17 | 0 |
| | | | | 2562.5 | 21375 | 16.79 | 17 | 0 |
| | | 36 RB | 0 | 2507.5 | 20825 | 16.85 | 17 | 0 |
| | | | | 2535 | 21100 | 16.79 | 17 | 0 |
| | | | | 2562.5 | 21375 | 16.82 | 17 | 0 |
| | | | 18 | 2507.5 | 20825 | 16.74 | 17 | 0 |
| | | | | 2535 | 21100 | 16.79 | 17 | 0 |
| | | | | 2562.5 | 21375 | 16.91 | 17 | 0 |
| | | | 37 | 2507.5 | 20825 | 16.86 | 17 | 0 |
| | | | | 2535 | 21100 | 16.81 | 17 | 0 |
| | | | | 2562.5 | 21375 | 16.91 | 17 | 0 |
| | | 75RB | | 2507.5 | 20825 | 16.84 | 17 | 0 |
| | | | | 2535 | 21100 | 16.78 | 17 | 0 |
| | | | | 2562.5 | 21375 | 16.93 | 17 | 0 |

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| FDD Band 7 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 2505 | 20800 | 16.83 | 17 | 0 |
| | | | | 2535 | 21100 | 16.74 | 17 | 0 |
| | | | | 2565 | 21400 | 16.82 | 17 | 0 |
| | | | 25 | 2505 | 20800 | 16.89 | 17 | 0 |
| | | | | 2535 | 21100 | 16.87 | 17 | 0 |
| | | | | 2565 | 21400 | 16.80 | 17 | 0 |
| | | | 49 | 2505 | 20800 | 16.77 | 17 | 0 |
| | | | | 2535 | 21100 | 16.78 | 17 | 0 |
| | | | | 2565 | 21400 | 16.77 | 17 | 0 |
| | | 25 RB | 0 | 2505 | 20800 | 16.89 | 17 | 0 |
| | | | | 2535 | 21100 | 16.85 | 17 | 0 |
| | | | | 2565 | 21400 | 16.84 | 17 | 0 |
| | | | 12 | 2505 | 20800 | 16.84 | 17 | 0 |
| | | | | 2535 | 21100 | 16.83 | 17 | 0 |
| | | | | 2565 | 21400 | 16.83 | 17 | 0 |
| | | | 25 | 2505 | 20800 | 16.79 | 17 | 0 |
| | | | | 2535 | 21100 | 16.79 | 17 | 0 |
| | | | | 2565 | 21400 | 16.74 | 17 | 0 |
| | | 50RB | | 2505 | 20800 | 16.91 | 17 | 0 |
| | | | | 2535 | 21100 | 16.91 | 17 | 0 |
| | | | | 2565 | 21400 | 16.83 | 17 | 0 |
| | 16-QAM | 1 RB | 0 | 2505 | 20800 | 16.83 | 17 | 0 |
| | | | | 2535 | 21100 | 16.77 | 17 | 0 |
| | | | | 2565 | 21400 | 16.85 | 17 | 0 |
| | | | 25 | 2505 | 20800 | 16.81 | 17 | 0 |
| | | | | 2535 | 21100 | 16.79 | 17 | 0 |
| | | | | 2565 | 21400 | 16.89 | 17 | 0 |
| | | | 49 | 2505 | 20800 | 16.86 | 17 | 0 |
| | | | | 2535 | 21100 | 16.79 | 17 | 0 |
| | | | | 2565 | 21400 | 16.76 | 17 | 0 |
| | | 25 RB | 0 | 2505 | 20800 | 16.79 | 17 | 0 |
| | | | | 2535 | 21100 | 16.79 | 17 | 0 |
| | | | | 2565 | 21400 | 16.91 | 17 | 0 |
| | | | 12 | 2505 | 20800 | 16.75 | 17 | 0 |
| | | | | 2535 | 21100 | 16.82 | 17 | 0 |
| | | | | 2565 | 21400 | 16.78 | 17 | 0 |
| | | | 25 | 2505 | 20800 | 16.86 | 17 | 0 |
| | | | | 2535 | 21100 | 16.87 | 17 | 0 |
| | | | | 2565 | 21400 | 16.88 | 17 | 0 |
| | | 50RB | | 2505 | 20800 | 16.83 | 17 | 0 |
| | | | | 2535 | 21100 | 16.73 | 17 | 0 |
| | | | | 2565 | 21400 | 16.90 | 17 | 0 |

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| FDD Band 7 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 2502.5 | 20775 | 16.91 | 17 | 0 |
| | | | | 2535 | 21100 | 16.84 | 17 | 0 |
| | | | | 2567.5 | 21425 | 16.90 | 17 | 0 |
| | | | 12 | 2502.5 | 20775 | 16.74 | 17 | 0 |
| | | | | 2535 | 21100 | 16.76 | 17 | 0 |
| | | | | 2567.5 | 21425 | 16.90 | 17 | 0 |
| | | | 24 | 2502.5 | 20775 | 16.86 | 17 | 0 |
| | | | | 2535 | 21100 | 16.86 | 17 | 0 |
| | | | | 2567.5 | 21425 | 16.74 | 17 | 0 |
| | | 12 RB | 0 | 2502.5 | 20775 | 16.90 | 17 | 0 |
| | | | | 2535 | 21100 | 16.92 | 17 | 0 |
| | | | | 2567.5 | 21425 | 16.78 | 17 | 0 |
| | | | 6 | 2502.5 | 20775 | 16.84 | 17 | 0 |
| | | | | 2535 | 21100 | 16.85 | 17 | 0 |
| | | | | 2567.5 | 21425 | 16.84 | 17 | 0 |
| | | | 13 | 2502.5 | 20775 | 16.90 | 17 | 0 |
| | | | | 2535 | 21100 | 16.86 | 17 | 0 |
| | | | | 2567.5 | 21425 | 16.80 | 17 | 0 |
| | | 25RB | | 2502.5 | 20775 | 16.81 | 17 | 0 |
| | | | | 2535 | 21100 | 16.75 | 17 | 0 |
| | | | | 2567.5 | 21425 | 16.83 | 17 | 0 |
| | 16-QAM | 1 RB | 0 | 2502.5 | 20775 | 16.85 | 17 | 0 |
| | | | | 2535 | 21100 | 16.90 | 17 | 0 |
| | | | | 2567.5 | 21425 | 16.87 | 17 | 0 |
| | | | 12 | 2502.5 | 20775 | 16.83 | 17 | 0 |
| | | | | 2535 | 21100 | 16.86 | 17 | 0 |
| | | | | 2567.5 | 21425 | 16.78 | 17 | 0 |
| | | | 24 | 2502.5 | 20775 | 16.88 | 17 | 0 |
| | | | | 2535 | 21100 | 16.81 | 17 | 0 |
| | | | | 2567.5 | 21425 | 16.87 | 17 | 0 |
| | | 12 RB | 0 | 2502.5 | 20775 | 16.84 | 17 | 0 |
| | | | | 2535 | 21100 | 16.84 | 17 | 0 |
| | | | | 2567.5 | 21425 | 16.86 | 17 | 0 |
| | | | 6 | 2502.5 | 20775 | 16.79 | 17 | 0 |
| | | | | 2535 | 21100 | 16.83 | 17 | 0 |
| | | | | 2567.5 | 21425 | 16.80 | 17 | 0 |
| | | | 13 | 2502.5 | 20775 | 16.92 | 17 | 0 |
| | | | | 2535 | 21100 | 16.80 | 17 | 0 |
| | | | | 2567.5 | 21425 | 16.77 | 17 | 0 |
| | | 25RB | | 2502.5 | 20775 | 16.83 | 17 | 0 |
| | | | | 2535 | 21100 | 16.87 | 17 | 0 |
| | | | | 2567.5 | 21425 | 16.77 | 17 | 0 |

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| FDD Band 12 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 704 | 23060 | 20.30 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.36 | 20.5 | 0 |
| | | | | 711 | 23130 | 20.29 | 20.5 | 0 |
| | | | 25 | 704 | 23060 | 20.29 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.46 | 20.5 | 0 |
| | | | | 711 | 23130 | 20.43 | 20.5 | 0 |
| | | | 49 | 704 | 23060 | 20.30 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.36 | 20.5 | 0 |
| | | | | 711 | 23130 | 20.32 | 20.5 | 0 |
| | | 25 RB | 0 | 704 | 23060 | 20.29 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.36 | 20.5 | 0 |
| | | | | 711 | 23130 | 20.43 | 20.5 | 0 |
| | | | 12 | 704 | 23060 | 20.32 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.30 | 20.5 | 0 |
| | | | | 711 | 23130 | 20.25 | 20.5 | 0 |
| | | | 25 | 704 | 23060 | 20.32 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.39 | 20.5 | 0 |
| | | | | 711 | 23130 | 20.44 | 20.5 | 0 |
| | | 50RB | | 704 | 23060 | 20.35 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.38 | 20.5 | 0 |
| | | | | 711 | 23130 | 20.33 | 20.5 | 0 |
| | 16-QAM | 1 RB | 0 | 704 | 23060 | 20.39 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.29 | 20.5 | 0 |
| | | | | 711 | 23130 | 20.29 | 20.5 | 0 |
| | | | 25 | 704 | 23060 | 20.31 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.36 | 20.5 | 0 |
| | | | | 711 | 23130 | 20.25 | 20.5 | 0 |
| | | | 49 | 704 | 23060 | 20.32 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.31 | 20.5 | 0 |
| | | | | 711 | 23130 | 20.45 | 20.5 | 0 |
| | | 25 RB | 0 | 704 | 23060 | 20.36 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.29 | 20.5 | 0 |
| | | | | 711 | 23130 | 20.30 | 20.5 | 0 |
| | | | 12 | 704 | 23060 | 20.29 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.39 | 20.5 | 0 |
| | | | | 711 | 23130 | 20.36 | 20.5 | 0 |
| | | | 25 | 704 | 23060 | 20.30 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.27 | 20.5 | 0 |
| | | | | 711 | 23130 | 20.38 | 20.5 | 0 |
| | | 50RB | | 704 | 23060 | 20.27 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.38 | 20.5 | 0 |
| | | | | 711 | 23130 | 20.45 | 20.5 | 0 |

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| FDD Band 12 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 701.5 | 23035 | 20.33 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.35 | 20.5 | 0 |
| | | | | 713.5 | 23155 | 20.26 | 20.5 | 0 |
| | | | 12 | 701.5 | 23035 | 20.29 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.43 | 20.5 | 0 |
| | | | | 713.5 | 23155 | 20.39 | 20.5 | 0 |
| | | | 24 | 701.5 | 23035 | 20.39 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.28 | 20.5 | 0 |
| | | | | 713.5 | 23155 | 20.36 | 20.5 | 0 |
| | | 12 RB | 0 | 701.5 | 23035 | 20.38 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.29 | 20.5 | 0 |
| | | | | 713.5 | 23155 | 20.39 | 20.5 | 0 |
| | | | 6 | 701.5 | 23035 | 20.32 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.42 | 20.5 | 0 |
| | | | | 713.5 | 23155 | 20.37 | 20.5 | 0 |
| | | | 13 | 701.5 | 23035 | 20.30 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.37 | 20.5 | 0 |
| | | | | 713.5 | 23155 | 20.28 | 20.5 | 0 |
| | | 25RB | | 701.5 | 23035 | 20.31 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.30 | 20.5 | 0 |
| | | | | 713.5 | 23155 | 20.26 | 20.5 | 0 |
| | 16-QAM | 1 RB | 0 | 701.5 | 23035 | 20.41 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.29 | 20.5 | 0 |
| | | | | 713.5 | 23155 | 20.42 | 20.5 | 0 |
| | | | 12 | 701.5 | 23035 | 20.32 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.29 | 20.5 | 0 |
| | | | | 713.5 | 23155 | 20.41 | 20.5 | 0 |
| | | | 24 | 701.5 | 23035 | 20.25 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.38 | 20.5 | 0 |
| | | | | 713.5 | 23155 | 20.43 | 20.5 | 0 |
| | | 12 RB | 0 | 701.5 | 23035 | 20.38 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.30 | 20.5 | 0 |
| | | | | 713.5 | 23155 | 20.27 | 20.5 | 0 |
| | | | 6 | 701.5 | 23035 | 20.31 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.36 | 20.5 | 0 |
| | | | | 713.5 | 23155 | 20.41 | 20.5 | 0 |
| | | | 13 | 701.5 | 23035 | 20.40 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.41 | 20.5 | 0 |
| | | | | 713.5 | 23155 | 20.38 | 20.5 | 0 |
| | | 25RB | | 701.5 | 23035 | 20.33 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.37 | 20.5 | 0 |
| | | | | 713.5 | 23155 | 20.34 | 20.5 | 0 |

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| FDD Band 12 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3 | QPSK | 1 RB | 0 | 700.5 | 23025 | 20.44 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.27 | 20.5 | 0 |
| | | | | 714.5 | 23165 | 20.40 | 20.5 | 0 |
| | | | 7 | 700.5 | 23025 | 20.40 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.36 | 20.5 | 0 |
| | | | | 714.5 | 23165 | 20.36 | 20.5 | 0 |
| | | | 14 | 700.5 | 23025 | 20.43 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.44 | 20.5 | 0 |
| | | | | 714.5 | 23165 | 20.32 | 20.5 | 0 |
| | | 8 RB | 0 | 700.5 | 23025 | 20.32 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.36 | 20.5 | 0 |
| | | | | 714.5 | 23165 | 20.40 | 20.5 | 0 |
| | | | 4 | 700.5 | 23025 | 20.40 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.26 | 20.5 | 0 |
| | | | | 714.5 | 23165 | 20.35 | 20.5 | 0 |
| | | | 7 | 700.5 | 23025 | 20.40 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.39 | 20.5 | 0 |
| | | | | 714.5 | 23165 | 20.34 | 20.5 | 0 |
| | | 15RB | | 700.5 | 23025 | 20.29 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.28 | 20.5 | 0 |
| | | | | 714.5 | 23165 | 20.33 | 20.5 | 0 |
| | 16-QAM | 1 RB | 0 | 700.5 | 23025 | 20.33 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.42 | 20.5 | 0 |
| | | | | 714.5 | 23165 | 20.29 | 20.5 | 0 |
| | | | 7 | 700.5 | 23025 | 20.40 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.36 | 20.5 | 0 |
| | | | | 714.5 | 23165 | 20.31 | 20.5 | 0 |
| | | | 14 | 700.5 | 23025 | 20.42 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.34 | 20.5 | 0 |
| | | | | 714.5 | 23165 | 20.30 | 20.5 | 0 |
| | | 8 RB | 0 | 700.5 | 23025 | 20.42 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.34 | 20.5 | 0 |
| | | | | 714.5 | 23165 | 20.44 | 20.5 | 0 |
| | | | 4 | 700.5 | 23025 | 20.40 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.44 | 20.5 | 0 |
| | | | | 714.5 | 23165 | 20.36 | 20.5 | 0 |
| | | | 7 | 700.5 | 23025 | 20.43 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.26 | 20.5 | 0 |
| | | | | 714.5 | 23165 | 20.37 | 20.5 | 0 |
| | | 15RB | | 700.5 | 23025 | 20.37 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.44 | 20.5 | 0 |
| | | | | 714.5 | 23165 | 20.33 | 20.5 | 0 |

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| FDD Band 12 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4 | QPSK | 1 RB | 0 | 699.7 | 23017 | 20.42 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.34 | 20.5 | 0 |
| | | | | 715.3 | 23173 | 20.28 | 20.5 | 0 |
| | | | 2 | 699.7 | 23017 | 20.34 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.43 | 20.5 | 0 |
| | | | | 715.3 | 23173 | 20.29 | 20.5 | 0 |
| | | | 5 | 699.7 | 23017 | 20.30 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.27 | 20.5 | 0 |
| | | | | 715.3 | 23173 | 20.43 | 20.5 | 0 |
| | | 3 RB | 0 | 699.7 | 23017 | 20.34 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.45 | 20.5 | 0 |
| | | | | 715.3 | 23173 | 20.36 | 20.5 | 0 |
| | | | 2 | 699.7 | 23017 | 20.27 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.41 | 20.5 | 0 |
| | | | | 715.3 | 23173 | 20.30 | 20.5 | 0 |
| | | | 3 | 699.7 | 23017 | 20.42 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.39 | 20.5 | 0 |
| | | | | 715.3 | 23173 | 20.34 | 20.5 | 0 |
| | | 6RB | | 699.7 | 23017 | 20.39 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.28 | 20.5 | 0 |
| | | | | 715.3 | 23173 | 20.45 | 20.5 | 0 |
| | 16-QAM | 1 RB | 0 | 699.7 | 23017 | 20.30 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.28 | 20.5 | 0 |
| | | | | 715.3 | 23173 | 20.40 | 20.5 | 0 |
| | | | 2 | 699.7 | 23017 | 20.36 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.45 | 20.5 | 0 |
| | | | | 715.3 | 23173 | 20.42 | 20.5 | 0 |
| | | | 5 | 699.7 | 23017 | 20.42 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.35 | 20.5 | 0 |
| | | | | 715.3 | 23173 | 20.27 | 20.5 | 0 |
| | | 3 RB | 0 | 699.7 | 23017 | 20.26 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.36 | 20.5 | 0 |
| | | | | 715.3 | 23173 | 20.30 | 20.5 | 0 |
| | | | 2 | 699.7 | 23017 | 20.25 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.26 | 20.5 | 0 |
| | | | | 715.3 | 23173 | 20.37 | 20.5 | 0 |
| | | | 3 | 699.7 | 23017 | 20.40 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.26 | 20.5 | 0 |
| | | | | 715.3 | 23173 | 20.27 | 20.5 | 0 |
| | | 6RB | | 699.7 | 23017 | 20.31 | 20.5 | 0 |
| | | | | 707.5 | 23095 | 20.35 | 20.5 | 0 |
| | | | | 715.3 | 23173 | 20.29 | 20.5 | 0 |

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| FDD Band 13 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 782 | 23230 | 20.90 | 21 | 0 |
| | | | 25 | 782 | 23230 | 20.98 | 21 | 0 |
| | | | 49 | 782 | 23230 | 20.79 | 21 | 0 |
| | | 25 RB | 0 | 782 | 23230 | 20.88 | 21 | 0 |
| | | | 12 | 782 | 23230 | 20.78 | 21 | 0 |
| | | | 25 | 782 | 23230 | 20.83 | 21 | 0 |
| | | 50RB | | 782 | 23230 | 20.92 | 21 | 0 |
| | 16-QAM | 1 RB | 0 | 782 | 23230 | 20.89 | 21 | 0 |
| | | | 25 | 782 | 23230 | 20.90 | 21 | 0 |
| | | | 49 | 782 | 23230 | 20.93 | 21 | 0 |
| | | 25 RB | 0 | 782 | 23230 | 20.86 | 21 | 0 |
| | | | 12 | 782 | 23230 | 20.86 | 21 | 0 |
| | | | 25 | 782 | 23230 | 20.94 | 21 | 0 |
| | | 50RB | | 782 | 23230 | 20.82 | 21 | 0 |

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| FDD Band 13 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 779.5 | 23205 | 20.97 | 21 | 0 |
| | | | | 782 | 23230 | 20.87 | 21 | 0 |
| | | | | 784.5 | 23255 | 20.91 | 21 | 0 |
| | | | 12 | 779.5 | 23205 | 20.97 | 21 | 0 |
| | | | | 782 | 23230 | 20.85 | 21 | 0 |
| | | | | 784.5 | 23255 | 20.90 | 21 | 0 |
| | | | 24 | 779.5 | 23205 | 20.85 | 21 | 0 |
| | | | | 782 | 23230 | 20.81 | 21 | 0 |
| | | | | 784.5 | 23255 | 20.95 | 21 | 0 |
| | | 12 RB | 0 | 779.5 | 23205 | 20.86 | 21 | 0 |
| | | | | 782 | 23230 | 20.87 | 21 | 0 |
| | | | | 784.5 | 23255 | 20.82 | 21 | 0 |
| | | | 6 | 779.5 | 23205 | 20.80 | 21 | 0 |
| | | | | 782 | 23230 | 20.79 | 21 | 0 |
| | | | | 784.5 | 23255 | 20.80 | 21 | 0 |
| | | | 13 | 779.5 | 23205 | 20.80 | 21 | 0 |
| | | | | 782 | 23230 | 20.82 | 21 | 0 |
| | | | | 784.5 | 23255 | 20.83 | 21 | 0 |
| | | 25RB | | 779.5 | 23205 | 20.81 | 21 | 0 |
| | | | | 782 | 23230 | 20.81 | 21 | 0 |
| | | | | 784.5 | 23255 | 20.88 | 21 | 0 |
| | 16-QAM | 1 RB | 0 | 779.5 | 23205 | 20.79 | 21 | 0 |
| | | | | 782 | 23230 | 20.93 | 21 | 0 |
| | | | | 784.5 | 23255 | 20.83 | 21 | 0 |
| | | | 12 | 779.5 | 23205 | 20.95 | 21 | 0 |
| | | | | 782 | 23230 | 20.82 | 21 | 0 |
| | | | | 784.5 | 23255 | 20.96 | 21 | 0 |
| | | | 24 | 779.5 | 23205 | 20.93 | 21 | 0 |
| | | | | 782 | 23230 | 20.81 | 21 | 0 |
| | | | | 784.5 | 23255 | 20.95 | 21 | 0 |
| | | 12 RB | 0 | 779.5 | 23205 | 20.85 | 21 | 0 |
| | | | | 782 | 23230 | 20.87 | 21 | 0 |
| | | | | 784.5 | 23255 | 20.87 | 21 | 0 |
| | | | 6 | 779.5 | 23205 | 20.90 | 21 | 0 |
| | | | | 782 | 23230 | 20.95 | 21 | 0 |
| | | | | 784.5 | 23255 | 20.96 | 21 | 0 |
| | | | 13 | 779.5 | 23205 | 20.82 | 21 | 0 |
| | | | | 782 | 23230 | 20.90 | 21 | 0 |
| | | | | 784.5 | 23255 | 20.95 | 21 | 0 |
| | | 25RB | | 779.5 | 23205 | 20.78 | 21 | 0 |
| | | | | 782 | 23230 | 20.90 | 21 | 0 |
| | | | | 784.5 | 23255 | 20.80 | 21 | 0 |

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| FDD Band 14 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 793 | 23330 | 20.92 | 21 | 0 |
| | | | 25 | 793 | 23330 | 20.63 | 21 | 0 |
| | | | 49 | 793 | 23330 | 20.71 | 21 | 0 |
| | | 25 RB | 0 | 793 | 23330 | 20.77 | 21 | 0 |
| | | | 12 | 793 | 23330 | 20.63 | 21 | 0 |
| | | | 25 | 793 | 23330 | 20.68 | 21 | 0 |
| | | 50RB | | 793 | 23330 | 20.62 | 21 | 0 |
| | 16-QAM | 1 RB | 0 | 793 | 23330 | 20.71 | 21 | 0 |
| | | | 25 | 793 | 23330 | 20.72 | 21 | 0 |
| | | | 49 | 793 | 23330 | 20.75 | 21 | 0 |
| | | 25 RB | 0 | 793 | 23330 | 20.64 | 21 | 0 |
| | | | 12 | 793 | 23330 | 20.89 | 21 | 0 |
| | | | 25 | 793 | 23330 | 20.73 | 21 | 0 |
| | | 50RB | | 793 | 23330 | 20.71 | 21 | 0 |

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| FDD Band 14 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 790.5 | 23305 | 20.73 | 21 | 0 |
| | | | | 793 | 23330 | 20.85 | 21 | 0 |
| | | | | 795.5 | 23355 | 20.85 | 21 | 0 |
| | | | 12 | 790.5 | 23305 | 20.81 | 21 | 0 |
| | | | | 793 | 23330 | 20.83 | 21 | 0 |
| | | | | 795.5 | 23355 | 20.90 | 21 | 0 |
| | | | 24 | 790.5 | 23305 | 20.71 | 21 | 0 |
| | | | | 793 | 23330 | 20.77 | 21 | 0 |
| | | | | 795.5 | 23355 | 20.62 | 21 | 0 |
| | | 12 RB | 0 | 790.5 | 23305 | 20.78 | 21 | 0 |
| | | | | 793 | 23330 | 20.87 | 21 | 0 |
| | | | | 795.5 | 23355 | 20.81 | 21 | 0 |
| | | | 6 | 790.5 | 23305 | 20.91 | 21 | 0 |
| | | | | 793 | 23330 | 20.64 | 21 | 0 |
| | | | | 795.5 | 23355 | 20.84 | 21 | 0 |
| | | | 13 | 790.5 | 23305 | 20.65 | 21 | 0 |
| | | | | 793 | 23330 | 20.75 | 21 | 0 |
| | | | | 795.5 | 23355 | 20.62 | 21 | 0 |
| | | 25RB | | 790.5 | 23305 | 20.83 | 21 | 0 |
| | | | | 793 | 23330 | 20.74 | 21 | 0 |
| | | | | 795.5 | 23355 | 20.88 | 21 | 0 |
| | 16-QAM | 1 RB | 0 | 790.5 | 23305 | 20.85 | 21 | 0 |
| | | | | 793 | 23330 | 20.80 | 21 | 0 |
| | | | | 795.5 | 23355 | 20.70 | 21 | 0 |
| | | | 12 | 790.5 | 23305 | 20.64 | 21 | 0 |
| | | | | 793 | 23330 | 20.85 | 21 | 0 |
| | | | | 795.5 | 23355 | 20.81 | 21 | 0 |
| | | | 24 | 790.5 | 23305 | 20.75 | 21 | 0 |
| | | | | 793 | 23330 | 20.89 | 21 | 0 |
| | | | | 795.5 | 23355 | 20.76 | 21 | 0 |
| | | 12 RB | 0 | 790.5 | 23305 | 20.75 | 21 | 0 |
| | | | | 793 | 23330 | 20.82 | 21 | 0 |
| | | | | 795.5 | 23355 | 20.81 | 21 | 0 |
| | | | 6 | 790.5 | 23305 | 20.85 | 21 | 0 |
| | | | | 793 | 23330 | 20.71 | 21 | 0 |
| | | | | 795.5 | 23355 | 20.74 | 21 | 0 |
| | | | 13 | 790.5 | 23305 | 20.69 | 21 | 0 |
| | | | | 793 | 23330 | 20.91 | 21 | 0 |
| | | | | 795.5 | 23355 | 20.68 | 21 | 0 |
| | | 25RB | | 790.5 | 23305 | 20.62 | 21 | 0 |
| | | | | 793 | 23330 | 20.63 | 21 | 0 |
| | | | | 795.5 | 23355 | 20.71 | 21 | 0 |

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| FDD Band 17 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 709 | 23780 | 20.23 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.17 | 20.5 | 0 |
| | | | | 711 | 23800 | 20.29 | 20.5 | 0 |
| | | | 25 | 709 | 23780 | 20.09 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.25 | 20.5 | 0 |
| | | | | 711 | 23800 | 20.16 | 20.5 | 0 |
| | | | 49 | 709 | 23780 | 20.20 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.16 | 20.5 | 0 |
| | | | | 711 | 23800 | 20.14 | 20.5 | 0 |
| | | 25 RB | 0 | 709 | 23780 | 20.27 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.22 | 20.5 | 0 |
| | | | | 711 | 23800 | 20.08 | 20.5 | 0 |
| | | | 12 | 709 | 23780 | 20.28 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.17 | 20.5 | 0 |
| | | | | 711 | 23800 | 20.13 | 20.5 | 0 |
| | | | 25 | 709 | 23780 | 20.12 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.25 | 20.5 | 0 |
| | | | | 711 | 23800 | 20.18 | 20.5 | 0 |
| | | 50RB | | 709 | 23780 | 20.15 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.21 | 20.5 | 0 |
| | | | | 711 | 23800 | 20.19 | 20.5 | 0 |
| | 16-QAM | 1 RB | 0 | 709 | 23780 | 20.20 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.20 | 20.5 | 0 |
| | | | | 711 | 23800 | 20.14 | 20.5 | 0 |
| | | | 25 | 709 | 23780 | 20.17 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.23 | 20.5 | 0 |
| | | | | 711 | 23800 | 20.18 | 20.5 | 0 |
| | | | 49 | 709 | 23780 | 20.26 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.10 | 20.5 | 0 |
| | | | | 711 | 23800 | 20.27 | 20.5 | 0 |
| | | 25 RB | 0 | 709 | 23780 | 20.26 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.12 | 20.5 | 0 |
| | | | | 711 | 23800 | 20.19 | 20.5 | 0 |
| | | | 12 | 709 | 23780 | 20.24 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.21 | 20.5 | 0 |
| | | | | 711 | 23800 | 20.12 | 20.5 | 0 |
| | | | 25 | 709 | 23780 | 20.11 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.09 | 20.5 | 0 |
| | | | | 711 | 23800 | 20.25 | 20.5 | 0 |
| | | 50RB | | 709 | 23780 | 20.17 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.11 | 20.5 | 0 |
| | | | | 711 | 23800 | 20.18 | 20.5 | 0 |

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| FDD Band 17 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 706.5 | 23755 | 20.24 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.14 | 20.5 | 0 |
| | | | | 713.5 | 23825 | 20.08 | 20.5 | 0 |
| | | | 12 | 706.5 | 23755 | 20.14 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.26 | 20.5 | 0 |
| | | | | 713.5 | 23825 | 20.24 | 20.5 | 0 |
| | | | 24 | 706.5 | 23755 | 20.09 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.17 | 20.5 | 0 |
| | | | | 713.5 | 23825 | 20.23 | 20.5 | 0 |
| | | 12 RB | 0 | 706.5 | 23755 | 20.22 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.16 | 20.5 | 0 |
| | | | | 713.5 | 23825 | 20.25 | 20.5 | 0 |
| | | | 6 | 706.5 | 23755 | 20.14 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.25 | 20.5 | 0 |
| | | | | 713.5 | 23825 | 20.17 | 20.5 | 0 |
| | | | 13 | 706.5 | 23755 | 20.11 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.26 | 20.5 | 0 |
| | | | | 713.5 | 23825 | 20.10 | 20.5 | 0 |
| | | 25RB | | 706.5 | 23755 | 20.28 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.23 | 20.5 | 0 |
| | | | | 713.5 | 23825 | 20.21 | 20.5 | 0 |
| | 16-QAM | 1 RB | 0 | 706.5 | 23755 | 20.08 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.25 | 20.5 | 0 |
| | | | | 713.5 | 23825 | 20.11 | 20.5 | 0 |
| | | | 12 | 706.5 | 23755 | 20.08 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.21 | 20.5 | 0 |
| | | | | 713.5 | 23825 | 20.25 | 20.5 | 0 |
| | | | 24 | 706.5 | 23755 | 20.26 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.19 | 20.5 | 0 |
| | | | | 713.5 | 23825 | 20.12 | 20.5 | 0 |
| | | 12 RB | 0 | 706.5 | 23755 | 20.14 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.19 | 20.5 | 0 |
| | | | | 713.5 | 23825 | 20.12 | 20.5 | 0 |
| | | | 6 | 706.5 | 23755 | 20.23 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.23 | 20.5 | 0 |
| | | | | 713.5 | 23825 | 20.18 | 20.5 | 0 |
| | | | 13 | 706.5 | 23755 | 20.10 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.14 | 20.5 | 0 |
| | | | | 713.5 | 23825 | 20.24 | 20.5 | 0 |
| | | 25RB | | 706.5 | 23755 | 20.22 | 20.5 | 0 |
| | | | | 710 | 23790 | 20.18 | 20.5 | 0 |
| | | | | 713.5 | 23825 | 20.13 | 20.5 | 0 |

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| FDD Band 25 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20 | QPSK | 1 RB | 0 | 1860 | 26140 | 16.40 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.48 | 17 | 0 |
| | | | | 1905 | 26590 | 16.27 | 17 | 0 |
| | | | 50 | 1860 | 26140 | 16.42 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.41 | 17 | 0 |
| | | | | 1905 | 26590 | 16.41 | 17 | 0 |
| | | | 99 | 1860 | 26140 | 16.30 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.42 | 17 | 0 |
| | | | | 1905 | 26590 | 16.32 | 17 | 0 |
| | | 50 RB | 0 | 1860 | 26140 | 16.36 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.47 | 17 | 0 |
| | | | | 1905 | 26590 | 16.37 | 17 | 0 |
| | | | 25 | 1860 | 26140 | 16.34 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.46 | 17 | 0 |
| | | | | 1905 | 26590 | 16.43 | 17 | 0 |
| | | | 50 | 1860 | 26140 | 16.28 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.46 | 17 | 0 |
| | | | | 1905 | 26590 | 16.42 | 17 | 0 |
| | | 100RB | | 1860 | 26140 | 16.28 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.35 | 17 | 0 |
| | | | | 1905 | 26590 | 16.32 | 17 | 0 |
| | 16-QAM | 1 RB | 0 | 1860 | 26140 | 16.44 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.30 | 17 | 0 |
| | | | | 1905 | 26590 | 16.39 | 17 | 0 |
| | | | 50 | 1860 | 26140 | 16.46 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.31 | 17 | 0 |
| | | | | 1905 | 26590 | 16.36 | 17 | 0 |
| | | | 99 | 1860 | 26140 | 16.30 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.40 | 17 | 0 |
| | | | | 1905 | 26590 | 16.47 | 17 | 0 |
| | | 50 RB | 0 | 1860 | 26140 | 16.45 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.41 | 17 | 0 |
| | | | | 1905 | 26590 | 16.30 | 17 | 0 |
| | | | 25 | 1860 | 26140 | 16.34 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.31 | 17 | 0 |
| | | | | 1905 | 26590 | 16.38 | 17 | 0 |
| | | | 50 | 1860 | 26140 | 16.46 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.36 | 17 | 0 |
| | | | | 1905 | 26590 | 16.39 | 17 | 0 |
| | | 100RB | | 1860 | 26140 | 16.45 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.28 | 17 | 0 |
| | | | | 1905 | 26590 | 16.43 | 17 | 0 |

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| FDD Band 25 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15 | QPSK | 1 RB | 0 | 1857.5 | 26115 | 16.40 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.43 | 17 | 0 |
| | | | | 1907.5 | 26615 | 16.32 | 17 | 0 |
| | | | 36 | 1857.5 | 26115 | 16.31 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.47 | 17 | 0 |
| | | | | 1907.5 | 26615 | 16.45 | 17 | 0 |
| | | | 74 | 1857.5 | 26115 | 16.30 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.37 | 17 | 0 |
| | | | | 1907.5 | 26615 | 16.46 | 17 | 0 |
| | | 36 RB | 0 | 1857.5 | 26115 | 16.29 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.29 | 17 | 0 |
| | | | | 1907.5 | 26615 | 16.40 | 17 | 0 |
| | | | 18 | 1857.5 | 26115 | 16.47 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.41 | 17 | 0 |
| | | | | 1907.5 | 26615 | 16.28 | 17 | 0 |
| | | | 37 | 1857.5 | 26115 | 16.36 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.45 | 17 | 0 |
| | | | | 1907.5 | 26615 | 16.33 | 17 | 0 |
| | | 75RB | | 1857.5 | 26115 | 16.31 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.31 | 17 | 0 |
| | | | | 1907.5 | 26615 | 16.44 | 17 | 0 |
| | 16-QAM | 1 RB | 0 | 1857.5 | 26115 | 16.43 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.41 | 17 | 0 |
| | | | | 1907.5 | 26615 | 16.29 | 17 | 0 |
| | | | 36 | 1857.5 | 26115 | 16.29 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.30 | 17 | 0 |
| | | | | 1907.5 | 26615 | 16.46 | 17 | 0 |
| | | | 74 | 1857.5 | 26115 | 16.29 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.30 | 17 | 0 |
| | | | | 1907.5 | 26615 | 16.46 | 17 | 0 |
| | | 36 RB | 0 | 1857.5 | 26115 | 16.38 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.28 | 17 | 0 |
| | | | | 1907.5 | 26615 | 16.29 | 17 | 0 |
| | | | 18 | 1857.5 | 26115 | 16.46 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.39 | 17 | 0 |
| | | | | 1907.5 | 26615 | 16.41 | 17 | 0 |
| | | | 37 | 1857.5 | 26115 | 16.31 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.34 | 17 | 0 |
| | | | | 1907.5 | 26615 | 16.44 | 17 | 0 |
| | | 75RB | | 1857.5 | 26115 | 16.39 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.43 | 17 | 0 |
| | | | | 1907.5 | 26615 | 16.37 | 17 | 0 |

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| FDD Band 25 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 1855 | 26090 | 16.36 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.29 | 17 | 0 |
| | | | | 1910 | 26640 | 16.45 | 17 | 0 |
| | | | 25 | 1855 | 26090 | 16.37 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.35 | 17 | 0 |
| | | | | 1910 | 26640 | 16.44 | 17 | 0 |
| | | | 49 | 1855 | 26090 | 16.36 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.30 | 17 | 0 |
| | | | | 1910 | 26640 | 16.30 | 17 | 0 |
| | | 25 RB | 0 | 1855 | 26090 | 16.33 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.41 | 17 | 0 |
| | | | | 1910 | 26640 | 16.42 | 17 | 0 |
| | | | 12 | 1855 | 26090 | 16.34 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.39 | 17 | 0 |
| | | | | 1910 | 26640 | 16.44 | 17 | 0 |
| | | | 25 | 1855 | 26090 | 16.37 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.44 | 17 | 0 |
| | | | | 1910 | 26640 | 16.35 | 17 | 0 |
| | | 50RB | | 1855 | 26090 | 16.41 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.40 | 17 | 0 |
| | | | | 1910 | 26640 | 16.32 | 17 | 0 |
| | 16-QAM | 1 RB | 0 | 1855 | 26090 | 16.33 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.40 | 17 | 0 |
| | | | | 1910 | 26640 | 16.47 | 17 | 0 |
| | | | 25 | 1855 | 26090 | 16.46 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.32 | 17 | 0 |
| | | | | 1910 | 26640 | 16.34 | 17 | 0 |
| | | | 49 | 1855 | 26090 | 16.30 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.37 | 17 | 0 |
| | | | | 1910 | 26640 | 16.27 | 17 | 0 |
| | | 25 RB | 0 | 1855 | 26090 | 16.32 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.39 | 17 | 0 |
| | | | | 1910 | 26640 | 16.30 | 17 | 0 |
| | | | 12 | 1855 | 26090 | 16.42 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.31 | 17 | 0 |
| | | | | 1910 | 26640 | 16.39 | 17 | 0 |
| | | | 25 | 1855 | 26090 | 16.36 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.42 | 17 | 0 |
| | | | | 1910 | 26640 | 16.44 | 17 | 0 |
| | | 50RB | | 1855 | 26090 | 16.38 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.44 | 17 | 0 |
| | | | | 1910 | 26640 | 16.31 | 17 | 0 |

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| FDD Band 25 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 1852.5 | 26065 | 16.40 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.43 | 17 | 0 |
| | | | | 1912.5 | 26665 | 16.38 | 17 | 0 |
| | | | 12 | 1852.5 | 26065 | 16.32 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.34 | 17 | 0 |
| | | | | 1912.5 | 26665 | 16.37 | 17 | 0 |
| | | | 24 | 1852.5 | 26065 | 16.42 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.34 | 17 | 0 |
| | | | | 1912.5 | 26665 | 16.27 | 17 | 0 |
| | | 12 RB | 0 | 1852.5 | 26065 | 16.37 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.28 | 17 | 0 |
| | | | | 1912.5 | 26665 | 16.42 | 17 | 0 |
| | | | 6 | 1852.5 | 26065 | 16.33 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.41 | 17 | 0 |
| | | | | 1912.5 | 26665 | 16.41 | 17 | 0 |
| | | | 13 | 1852.5 | 26065 | 16.39 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.28 | 17 | 0 |
| | | | | 1912.5 | 26665 | 16.30 | 17 | 0 |
| | | 25RB | | 1852.5 | 26065 | 16.34 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.37 | 17 | 0 |
| | | | | 1912.5 | 26665 | 16.37 | 17 | 0 |
| | 16-QAM | 1 RB | 0 | 1852.5 | 26065 | 16.27 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.40 | 17 | 0 |
| | | | | 1912.5 | 26665 | 16.46 | 17 | 0 |
| | | | 12 | 1852.5 | 26065 | 16.41 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.34 | 17 | 0 |
| | | | | 1912.5 | 26665 | 16.28 | 17 | 0 |
| | | | 24 | 1852.5 | 26065 | 16.35 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.31 | 17 | 0 |
| | | | | 1912.5 | 26665 | 16.40 | 17 | 0 |
| | | 12 RB | 0 | 1852.5 | 26065 | 16.41 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.37 | 17 | 0 |
| | | | | 1912.5 | 26665 | 16.34 | 17 | 0 |
| | | | 6 | 1852.5 | 26065 | 16.29 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.44 | 17 | 0 |
| | | | | 1912.5 | 26665 | 16.33 | 17 | 0 |
| | | | 13 | 1852.5 | 26065 | 16.34 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.46 | 17 | 0 |
| | | | | 1912.5 | 26665 | 16.39 | 17 | 0 |
| | | 25RB | | 1852.5 | 26065 | 16.33 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.34 | 17 | 0 |
| | | | | 1912.5 | 26665 | 16.44 | 17 | 0 |

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| FDD Band 25 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3 | QPSK | 1 RB | 0 | 1851.5 | 26055 | 16.45 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.27 | 17 | 0 |
| | | | | 1913.5 | 26675 | 16.34 | 17 | 0 |
| | | | 7 | 1851.5 | 26055 | 16.43 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.41 | 17 | 0 |
| | | | | 1913.5 | 26675 | 16.45 | 17 | 0 |
| | | | 14 | 1851.5 | 26055 | 16.28 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.41 | 17 | 0 |
| | | | | 1913.5 | 26675 | 16.46 | 17 | 0 |
| | | 8 RB | 0 | 1851.5 | 26055 | 16.42 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.33 | 17 | 0 |
| | | | | 1913.5 | 26675 | 16.32 | 17 | 0 |
| | | | 4 | 1851.5 | 26055 | 16.40 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.35 | 17 | 0 |
| | | | | 1913.5 | 26675 | 16.39 | 17 | 0 |
| | | | 7 | 1851.5 | 26055 | 16.30 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.29 | 17 | 0 |
| | | | | 1913.5 | 26675 | 16.35 | 17 | 0 |
| | | 15RB | | 1851.5 | 26055 | 16.41 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.43 | 17 | 0 |
| | | | | 1913.5 | 26675 | 16.44 | 17 | 0 |
| | 16-QAM | 1 RB | 0 | 1851.5 | 26055 | 16.31 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.28 | 17 | 0 |
| | | | | 1913.5 | 26675 | 16.37 | 17 | 0 |
| | | | 7 | 1851.5 | 26055 | 16.46 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.42 | 17 | 0 |
| | | | | 1913.5 | 26675 | 16.41 | 17 | 0 |
| | | | 14 | 1851.5 | 26055 | 16.29 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.35 | 17 | 0 |
| | | | | 1913.5 | 26675 | 16.34 | 17 | 0 |
| | | 8 RB | 0 | 1851.5 | 26055 | 16.34 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.44 | 17 | 0 |
| | | | | 1913.5 | 26675 | 16.30 | 17 | 0 |
| | | | 4 | 1851.5 | 26055 | 16.42 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.35 | 17 | 0 |
| | | | | 1913.5 | 26675 | 16.38 | 17 | 0 |
| | | | 7 | 1851.5 | 26055 | 16.27 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.32 | 17 | 0 |
| | | | | 1913.5 | 26675 | 16.41 | 17 | 0 |
| | | 15RB | | 1851.5 | 26055 | 16.41 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.43 | 17 | 0 |
| | | | | 1913.5 | 26675 | 16.47 | 17 | 0 |

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| FDD Band 25 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4 | QPSK | 1 RB | 0 | 1850.7 | 26047 | 16.34 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.44 | 17 | 0 |
| | | | | 1914.3 | 26683 | 16.42 | 17 | 0 |
| | | | 2 | 1850.7 | 26047 | 16.43 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.37 | 17 | 0 |
| | | | | 1914.3 | 26683 | 16.28 | 17 | 0 |
| | | | 5 | 1850.7 | 26047 | 16.38 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.46 | 17 | 0 |
| | | | | 1914.3 | 26683 | 16.36 | 17 | 0 |
| | | 3 RB | 0 | 1850.7 | 26047 | 16.40 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.39 | 17 | 0 |
| | | | | 1914.3 | 26683 | 16.42 | 17 | 0 |
| | | | 2 | 1850.7 | 26047 | 16.41 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.27 | 17 | 0 |
| | | | | 1914.3 | 26683 | 16.45 | 17 | 0 |
| | | | 3 | 1850.7 | 26047 | 16.37 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.47 | 17 | 0 |
| | | | | 1914.3 | 26683 | 16.31 | 17 | 0 |
| | | 6RB | | 1850.7 | 26047 | 16.41 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.28 | 17 | 0 |
| | | | | 1914.3 | 26683 | 16.44 | 17 | 0 |
| | 16-QAM | 1 RB | 0 | 1850.7 | 26047 | 16.29 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.43 | 17 | 0 |
| | | | | 1914.3 | 26683 | 16.31 | 17 | 0 |
| | | | 2 | 1850.7 | 26047 | 16.36 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.29 | 17 | 0 |
| | | | | 1914.3 | 26683 | 16.32 | 17 | 0 |
| | | | 5 | 1850.7 | 26047 | 16.34 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.28 | 17 | 0 |
| | | | | 1914.3 | 26683 | 16.44 | 17 | 0 |
| | | 3 RB | 0 | 1850.7 | 26047 | 16.30 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.30 | 17 | 0 |
| | | | | 1914.3 | 26683 | 16.43 | 17 | 0 |
| | | | 2 | 1850.7 | 26047 | 16.34 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.44 | 17 | 0 |
| | | | | 1914.3 | 26683 | 16.33 | 17 | 0 |
| | | | 3 | 1850.7 | 26047 | 16.46 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.43 | 17 | 0 |
| | | | | 1914.3 | 26683 | 16.28 | 17 | 0 |
| | | 6RB | | 1850.7 | 26047 | 16.29 | 17 | 0 |
| | | | | 1882.5 | 26365 | 16.44 | 17 | 0 |
| | | | | 1914.3 | 26683 | 16.43 | 17 | 0 |

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| FDD Band 26 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15 | QPSK | 1 RB | 0 | 822.5 | 26825 | 22.19 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.3 | 22.5 | 0 |
| | | | | 841.5 | 26965 | 22.35 | 22.5 | 0 |
| | | | 36 | 822.5 | 26825 | 22.24 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.18 | 22.5 | 0 |
| | | | | 841.5 | 26965 | 22.28 | 22.5 | 0 |
| | | | 74 | 822.5 | 26825 | 22.2 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.14 | 22.5 | 0 |
| | | | | 841.5 | 26965 | 22.31 | 22.5 | 0 |
| | | 36 RB | 0 | 822.5 | 26825 | 22.31 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.32 | 22.5 | 0 |
| | | | | 841.5 | 26965 | 22.19 | 22.5 | 0 |
| | | | 18 | 822.5 | 26825 | 22.18 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.27 | 22.5 | 0 |
| | | | | 841.5 | 26965 | 22.3 | 22.5 | 0 |
| | | | 37 | 822.5 | 26825 | 22.23 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.34 | 22.5 | 0 |
| | | | | 841.5 | 26965 | 22.26 | 22.5 | 0 |
| | | 75RB | | 822.5 | 26825 | 22.28 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.2 | 22.5 | 0 |
| | | | | 841.5 | 26965 | 22.27 | 22.5 | 0 |
| | 16-QAM | 1 RB | 0 | 822.5 | 26825 | 22.33 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.24 | 22.5 | 0 |
| | | | | 841.5 | 26965 | 22.19 | 22.5 | 0 |
| | | | 36 | 822.5 | 26825 | 22.21 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.21 | 22.5 | 0 |
| | | | | 841.5 | 26965 | 22.31 | 22.5 | 0 |
| | | | 74 | 822.5 | 26825 | 22.14 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.17 | 22.5 | 0 |
| | | | | 841.5 | 26965 | 22.23 | 22.5 | 0 |
| | | 36 RB | 0 | 822.5 | 26825 | 22.3 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.33 | 22.5 | 0 |
| | | | | 841.5 | 26965 | 22.26 | 22.5 | 0 |
| | | | 18 | 822.5 | 26825 | 22.32 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.16 | 22.5 | 0 |
| | | | | 841.5 | 26965 | 22.3 | 22.5 | 0 |
| | | | 37 | 822.5 | 26825 | 22.29 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.3 | 22.5 | 0 |
| | | | | 841.5 | 26965 | 22.22 | 22.5 | 0 |
| | | 75RB | | 822.5 | 26825 | 22.15 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.16 | 22.5 | 0 |
| | | | | 841.5 | 26965 | 22.27 | 22.5 | 0 |

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| FDD Band 26 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 820 | 26800 | 22.30 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.31 | 22.5 | 0 |
| | | | | 844 | 26990 | 22.29 | 22.5 | 0 |
| | | | 25 | 820 | 26800 | 22.27 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.23 | 22.5 | 0 |
| | | | | 844 | 26990 | 22.28 | 22.5 | 0 |
| | | | 49 | 820 | 26800 | 22.18 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.17 | 22.5 | 0 |
| | | | | 844 | 26990 | 22.20 | 22.5 | 0 |
| | | 25 RB | 0 | 820 | 26800 | 22.21 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.16 | 22.5 | 0 |
| | | | | 844 | 26990 | 22.33 | 22.5 | 0 |
| | | | 12 | 820 | 26800 | 22.17 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.19 | 22.5 | 0 |
| | | | | 844 | 26990 | 22.20 | 22.5 | 0 |
| | | | 25 | 820 | 26800 | 22.18 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.28 | 22.5 | 0 |
| | | | | 844 | 26990 | 22.14 | 22.5 | 0 |
| | | 50RB | | 820 | 26800 | 22.33 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.29 | 22.5 | 0 |
| | | | | 844 | 26990 | 22.20 | 22.5 | 0 |
| | 16-QAM | 1 RB | 0 | 820 | 26800 | 22.24 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.33 | 22.5 | 0 |
| | | | | 844 | 26990 | 22.27 | 22.5 | 0 |
| | | | 25 | 820 | 26800 | 22.29 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.17 | 22.5 | 0 |
| | | | | 844 | 26990 | 22.30 | 22.5 | 0 |
| | | | 49 | 820 | 26800 | 22.23 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.25 | 22.5 | 0 |
| | | | | 844 | 26990 | 22.28 | 22.5 | 0 |
| | | 25 RB | 0 | 820 | 26800 | 22.23 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.27 | 22.5 | 0 |
| | | | | 844 | 26990 | 22.25 | 22.5 | 0 |
| | | | 12 | 820 | 26800 | 22.30 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.28 | 22.5 | 0 |
| | | | | 844 | 26990 | 22.26 | 22.5 | 0 |
| | | | 25 | 820 | 26800 | 22.32 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.16 | 22.5 | 0 |
| | | | | 844 | 26990 | 22.15 | 22.5 | 0 |
| | | 50RB | | 820 | 26800 | 22.22 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.27 | 22.5 | 0 |
| | | | | 844 | 26990 | 22.15 | 22.5 | 0 |

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| FDD Band 26 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 816.5 | 26715 | 22.32 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.32 | 22.5 | 0 |
| | | | | 846.5 | 27015 | 22.17 | 22.5 | 0 |
| | | | 12 | 816.5 | 26715 | 22.33 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.16 | 22.5 | 0 |
| | | | | 846.5 | 27015 | 22.21 | 22.5 | 0 |
| | | | 24 | 816.5 | 26715 | 22.23 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.14 | 22.5 | 0 |
| | | | | 846.5 | 27015 | 22.34 | 22.5 | 0 |
| | | 12 RB | 0 | 816.5 | 26715 | 22.21 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.20 | 22.5 | 0 |
| | | | | 846.5 | 27015 | 22.21 | 22.5 | 0 |
| | | | 6 | 816.5 | 26715 | 22.15 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.32 | 22.5 | 0 |
| | | | | 846.5 | 27015 | 22.19 | 22.5 | 0 |
| | | | 13 | 816.5 | 26715 | 22.15 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.31 | 22.5 | 0 |
| | | | | 846.5 | 27015 | 22.18 | 22.5 | 0 |
| | | 25RB | | 816.5 | 26715 | 22.26 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.18 | 22.5 | 0 |
| | | | | 846.5 | 27015 | 22.17 | 22.5 | 0 |
| | 16-QAM | 1 RB | 0 | 816.5 | 26715 | 22.17 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.29 | 22.5 | 0 |
| | | | | 846.5 | 27015 | 22.20 | 22.5 | 0 |
| | | | 12 | 816.5 | 26715 | 22.26 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.34 | 22.5 | 0 |
| | | | | 846.5 | 27015 | 22.22 | 22.5 | 0 |
| | | | 24 | 816.5 | 26715 | 22.14 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.26 | 22.5 | 0 |
| | | | | 846.5 | 27015 | 22.23 | 22.5 | 0 |
| | | 12 RB | 0 | 816.5 | 26715 | 22.28 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.28 | 22.5 | 0 |
| | | | | 846.5 | 27015 | 22.21 | 22.5 | 0 |
| | | | 6 | 816.5 | 26715 | 22.30 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.19 | 22.5 | 0 |
| | | | | 846.5 | 27015 | 22.14 | 22.5 | 0 |
| | | | 13 | 816.5 | 26715 | 22.31 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.29 | 22.5 | 0 |
| | | | | 846.5 | 27015 | 22.31 | 22.5 | 0 |
| | | 25RB | | 816.5 | 26715 | 22.31 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.19 | 22.5 | 0 |
| | | | | 846.5 | 27015 | 22.20 | 22.5 | 0 |

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| FDD Band 26 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3 | QPSK | 1 RB | 0 | 815.5 | 26705 | 22.14 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.30 | 22.5 | 0 |
| | | | | 847.5 | 27025 | 22.28 | 22.5 | 0 |
| | | | 7 | 815.5 | 26705 | 22.25 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.16 | 22.5 | 0 |
| | | | | 847.5 | 27025 | 22.19 | 22.5 | 0 |
| | | | 14 | 815.5 | 26705 | 22.28 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.27 | 22.5 | 0 |
| | | | | 847.5 | 27025 | 22.25 | 22.5 | 0 |
| | | 8 RB | 0 | 815.5 | 26705 | 22.20 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.33 | 22.5 | 0 |
| | | | | 847.5 | 27025 | 22.27 | 22.5 | 0 |
| | | | 4 | 815.5 | 26705 | 22.18 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.25 | 22.5 | 0 |
| | | | | 847.5 | 27025 | 22.33 | 22.5 | 0 |
| | | | 7 | 815.5 | 26705 | 22.32 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.24 | 22.5 | 0 |
| | | | | 847.5 | 27025 | 22.16 | 22.5 | 0 |
| | | 15RB | | 815.5 | 26705 | 22.29 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.29 | 22.5 | 0 |
| | | | | 847.5 | 27025 | 22.21 | 22.5 | 0 |
| | 16-QAM | 1 RB | 0 | 815.5 | 26705 | 22.24 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.18 | 22.5 | 0 |
| | | | | 847.5 | 27025 | 22.30 | 22.5 | 0 |
| | | | 7 | 815.5 | 26705 | 22.14 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.22 | 22.5 | 0 |
| | | | | 847.5 | 27025 | 22.24 | 22.5 | 0 |
| | | | 14 | 815.5 | 26705 | 22.23 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.21 | 22.5 | 0 |
| | | | | 847.5 | 27025 | 22.31 | 22.5 | 0 |
| | | 8 RB | 0 | 815.5 | 26705 | 22.24 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.14 | 22.5 | 0 |
| | | | | 847.5 | 27025 | 22.24 | 22.5 | 0 |
| | | | 4 | 815.5 | 26705 | 22.33 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.29 | 22.5 | 0 |
| | | | | 847.5 | 27025 | 22.33 | 22.5 | 0 |
| | | | 7 | 815.5 | 26705 | 22.29 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.33 | 22.5 | 0 |
| | | | | 847.5 | 27025 | 22.22 | 22.5 | 0 |
| | | 15RB | | 815.5 | 26705 | 22.30 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.34 | 22.5 | 0 |
| | | | | 847.5 | 27025 | 22.20 | 22.5 | 0 |

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| FDD Band 26 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4 | QPSK | 1 RB | 0 | 814.7 | 26697 | 22.31 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.29 | 22.5 | 0 |
| | | | | 848.3 | 27033 | 22.34 | 22.5 | 0 |
| | | | 2 | 814.7 | 26697 | 22.16 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.24 | 22.5 | 0 |
| | | | | 848.3 | 27033 | 22.27 | 22.5 | 0 |
| | | | 5 | 814.7 | 26697 | 22.27 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.26 | 22.5 | 0 |
| | | | | 848.3 | 27033 | 22.28 | 22.5 | 0 |
| | | 3 RB | 0 | 814.7 | 26697 | 22.34 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.18 | 22.5 | 0 |
| | | | | 848.3 | 27033 | 22.32 | 22.5 | 0 |
| | | | 2 | 814.7 | 26697 | 22.17 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.14 | 22.5 | 0 |
| | | | | 848.3 | 27033 | 22.31 | 22.5 | 0 |
| | | | 3 | 814.7 | 26697 | 22.28 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.16 | 22.5 | 0 |
| | | | | 848.3 | 27033 | 22.19 | 22.5 | 0 |
| | | 6RB | | 814.7 | 26697 | 22.27 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.18 | 22.5 | 0 |
| | | | | 848.3 | 27033 | 22.24 | 22.5 | 0 |
| | 16-QAM | 1 RB | 0 | 814.7 | 26697 | 22.21 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.25 | 22.5 | 0 |
| | | | | 848.3 | 27033 | 22.34 | 22.5 | 0 |
| | | | 2 | 814.7 | 26697 | 22.19 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.26 | 22.5 | 0 |
| | | | | 848.3 | 27033 | 22.29 | 22.5 | 0 |
| | | | 5 | 814.7 | 26697 | 22.26 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.15 | 22.5 | 0 |
| | | | | 848.3 | 27033 | 22.19 | 22.5 | 0 |
| | | 3 RB | 0 | 814.7 | 26697 | 22.31 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.24 | 22.5 | 0 |
| | | | | 848.3 | 27033 | 22.21 | 22.5 | 0 |
| | | | 2 | 814.7 | 26697 | 22.19 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.18 | 22.5 | 0 |
| | | | | 848.3 | 27033 | 22.25 | 22.5 | 0 |
| | | | 3 | 814.7 | 26697 | 22.34 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.26 | 22.5 | 0 |
| | | | | 848.3 | 27033 | 22.21 | 22.5 | 0 |
| | | 6RB | | 814.7 | 26697 | 22.20 | 22.5 | 0 |
| | | | | 831.5 | 26865 | 22.25 | 22.5 | 0 |
| | | | | 848.3 | 27033 | 22.19 | 22.5 | 0 |

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| FDD Band 30 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 2310 | 27710 | 16.42 | 16.5 | 0 |
| | | | 25 | 2310 | 27710 | 16.37 | 16.5 | 0 |
| | | | 49 | 2310 | 27710 | 16.48 | 16.5 | 0 |
| | | 25 RB | 0 | 2310 | 27710 | 16.31 | 16.5 | 0 |
| | | | 12 | 2310 | 27710 | 16.32 | 16.5 | 0 |
| | | | 25 | 2310 | 27710 | 16.42 | 16.5 | 0 |
| | | 50RB | | 2310 | 27710 | 16.30 | 16.5 | 0 |
| | 16-QAM | 1 RB | 0 | 2310 | 27710 | 16.41 | 16.5 | 0 |
| | | | 25 | 2310 | 27710 | 16.40 | 16.5 | 0 |
| | | | 49 | 2310 | 27710 | 16.37 | 16.5 | 0 |
| | | 25 RB | 0 | 2310 | 27710 | 16.34 | 16.5 | 0 |
| | | | 12 | 2310 | 27710 | 16.29 | 16.5 | 0 |
| | | | 25 | 2310 | 27710 | 16.43 | 16.5 | 0 |
| | | 50RB | | 2310 | 27710 | 16.37 | 16.5 | 0 |

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| FDD Band 30 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 2307.5 | 27685 | 16.40 | 16.5 | 0 |
| | | | | 2310 | 27710 | 16.41 | 16.5 | 0 |
| | | | | 2312.5 | 27735 | 16.40 | 16.5 | 0 |
| | | | 12 | 2307.5 | 27685 | 16.31 | 16.5 | 0 |
| | | | | 2310 | 27710 | 16.29 | 16.5 | 0 |
| | | | | 2312.5 | 27735 | 16.45 | 16.5 | 0 |
| | | | 24 | 2307.5 | 27685 | 16.39 | 16.5 | 0 |
| | | | | 2310 | 27710 | 16.40 | 16.5 | 0 |
| | | | | 2312.5 | 27735 | 16.46 | 16.5 | 0 |
| | | 12 RB | 0 | 2307.5 | 27685 | 16.38 | 16.5 | 0 |
| | | | | 2310 | 27710 | 16.31 | 16.5 | 0 |
| | | | | 2312.5 | 27735 | 16.30 | 16.5 | 0 |
| | | | 6 | 2307.5 | 27685 | 16.42 | 16.5 | 0 |
| | | | | 2310 | 27710 | 16.47 | 16.5 | 0 |
| | | | | 2312.5 | 27735 | 16.41 | 16.5 | 0 |
| | | | 13 | 2307.5 | 27685 | 16.27 | 16.5 | 0 |
| | | | | 2310 | 27710 | 16.40 | 16.5 | 0 |
| | | | | 2312.5 | 27735 | 16.31 | 16.5 | 0 |
| | | 25RB | | 2307.5 | 27685 | 16.32 | 16.5 | 0 |
| | | | | 2310 | 27710 | 16.31 | 16.5 | 0 |
| | | | | 2312.5 | 27735 | 16.44 | 16.5 | 0 |
| | 16-QAM | 1 RB | 0 | 2307.5 | 27685 | 16.35 | 16.5 | 0 |
| | | | | 2310 | 27710 | 16.31 | 16.5 | 0 |
| | | | | 2312.5 | 27735 | 16.38 | 16.5 | 0 |
| | | | 12 | 2307.5 | 27685 | 16.36 | 16.5 | 0 |
| | | | | 2310 | 27710 | 16.42 | 16.5 | 0 |
| | | | | 2312.5 | 27735 | 16.45 | 16.5 | 0 |
| | | | 24 | 2307.5 | 27685 | 16.38 | 16.5 | 0 |
| | | | | 2310 | 27710 | 16.42 | 16.5 | 0 |
| | | | | 2312.5 | 27735 | 16.38 | 16.5 | 0 |
| | | 12 RB | 0 | 2307.5 | 27685 | 16.46 | 16.5 | 0 |
| | | | | 2310 | 27710 | 16.44 | 16.5 | 0 |
| | | | | 2312.5 | 27735 | 16.35 | 16.5 | 0 |
| | | | 6 | 2307.5 | 27685 | 16.35 | 16.5 | 0 |
| | | | | 2310 | 27710 | 16.38 | 16.5 | 0 |
| | | | | 2312.5 | 27735 | 16.41 | 16.5 | 0 |
| | | | 13 | 2307.5 | 27685 | 16.45 | 16.5 | 0 |
| | | | | 2310 | 27710 | 16.29 | 16.5 | 0 |
| | | | | 2312.5 | 27735 | 16.30 | 16.5 | 0 |
| | | 25RB | | 2307.5 | 27685 | 16.37 | 16.5 | 0 |
| | | | | 2310 | 27710 | 16.28 | 16.5 | 0 |
| | | | | 2312.5 | 27735 | 16.36 | 16.5 | 0 |

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| FDD Band 66 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20 | QPSK | 1 RB | 0 | 1720 | 132072 | 18.23 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.11 | 18.5 | 0 |
| | | | | 1770 | 132572 | 18.30 | 18.5 | 0 |
| | | | 50 | 1720 | 132072 | 18.18 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.14 | 18.5 | 0 |
| | | | | 1770 | 132572 | 18.22 | 18.5 | 0 |
| | | | 99 | 1720 | 132072 | 18.17 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.20 | 18.5 | 0 |
| | | | | 1770 | 132572 | 18.21 | 18.5 | 0 |
| | | 50 RB | 0 | 1720 | 132072 | 18.18 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.28 | 18.5 | 0 |
| | | | | 1770 | 132572 | 18.15 | 18.5 | 0 |
| | | | 25 | 1720 | 132072 | 18.28 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.23 | 18.5 | 0 |
| | | | | 1770 | 132572 | 18.15 | 18.5 | 0 |
| | | | 50 | 1720 | 132072 | 18.20 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.18 | 18.5 | 0 |
| | | | | 1770 | 132572 | 18.18 | 18.5 | 0 |
| | | 100RB | | 1720 | 132072 | 18.18 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.12 | 18.5 | 0 |
| | | | | 1770 | 132572 | 18.28 | 18.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1720 | 132072 | 18.16 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.19 | 18.5 | 0 |
| | | | | 1770 | 132572 | 18.27 | 18.5 | 0 |
| | | | 50 | 1720 | 132072 | 18.25 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.25 | 18.5 | 0 |
| | | | | 1770 | 132572 | 18.13 | 18.5 | 0 |
| | | | 99 | 1720 | 132072 | 18.13 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.16 | 18.5 | 0 |
| | | | | 1770 | 132572 | 18.21 | 18.5 | 0 |
| | | 50 RB | 0 | 1720 | 132072 | 18.15 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.21 | 18.5 | 0 |
| | | | | 1770 | 132572 | 18.16 | 18.5 | 0 |
| | | | 25 | 1720 | 132072 | 18.23 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.26 | 18.5 | 0 |
| | | | | 1770 | 132572 | 18.25 | 18.5 | 0 |
| | | | 50 | 1720 | 132072 | 18.24 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.24 | 18.5 | 0 |
| | | | | 1770 | 132572 | 18.13 | 18.5 | 0 |
| | | 100RB | | 1720 | 132072 | 18.09 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.25 | 18.5 | 0 |
| | | | | 1770 | 132572 | 18.25 | 18.5 | 0 |

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| FDD Band 66 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15 | QPSK | 1 RB | 0 | 1717.5 | 132047 | 18.15 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.12 | 18.5 | 0 |
| | | | | 1772.5 | 132597 | 18.25 | 18.5 | 0 |
| | | | 36 | 1717.5 | 132047 | 18.19 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.16 | 18.5 | 0 |
| | | | | 1772.5 | 132597 | 18.26 | 18.5 | 0 |
| | | | 74 | 1717.5 | 132047 | 18.27 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.17 | 18.5 | 0 |
| | | | | 1772.5 | 132597 | 18.26 | 18.5 | 0 |
| | | 36 RB | 0 | 1717.5 | 132047 | 18.24 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.22 | 18.5 | 0 |
| | | | | 1772.5 | 132597 | 18.18 | 18.5 | 0 |
| | | | 18 | 1717.5 | 132047 | 18.28 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.15 | 18.5 | 0 |
| | | | | 1772.5 | 132597 | 18.11 | 18.5 | 0 |
| | | | 37 | 1717.5 | 132047 | 18.15 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.22 | 18.5 | 0 |
| | | | | 1772.5 | 132597 | 18.13 | 18.5 | 0 |
| | | 75RB | | 1717.5 | 132047 | 18.25 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.20 | 18.5 | 0 |
| | | | | 1772.5 | 132597 | 18.14 | 18.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1717.5 | 132047 | 18.17 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.24 | 18.5 | 0 |
| | | | | 1772.5 | 132597 | 18.11 | 18.5 | 0 |
| | | | 36 | 1717.5 | 132047 | 18.13 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.23 | 18.5 | 0 |
| | | | | 1772.5 | 132597 | 18.26 | 18.5 | 0 |
| | | | 74 | 1717.5 | 132047 | 18.21 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.20 | 18.5 | 0 |
| | | | | 1772.5 | 132597 | 18.18 | 18.5 | 0 |
| | | 36 RB | 0 | 1717.5 | 132047 | 18.27 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.26 | 18.5 | 0 |
| | | | | 1772.5 | 132597 | 18.21 | 18.5 | 0 |
| | | | 18 | 1717.5 | 132047 | 18.24 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.17 | 18.5 | 0 |
| | | | | 1772.5 | 132597 | 18.17 | 18.5 | 0 |
| | | | 37 | 1717.5 | 132047 | 18.13 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.16 | 18.5 | 0 |
| | | | | 1772.5 | 132597 | 18.16 | 18.5 | 0 |
| | | 75RB | | 1717.5 | 132047 | 18.12 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.22 | 18.5 | 0 |
| | | | | 1772.5 | 132597 | 18.15 | 18.5 | 0 |

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| FDD Band 66 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 1715 | 132022 | 18.19 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.19 | 18.5 | 0 |
| | | | | 1775 | 132622 | 18.16 | 18.5 | 0 |
| | | | 25 | 1715 | 132022 | 18.11 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.13 | 18.5 | 0 |
| | | | | 1775 | 132622 | 18.12 | 18.5 | 0 |
| | | | 49 | 1715 | 132022 | 18.12 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.25 | 18.5 | 0 |
| | | | | 1775 | 132622 | 18.16 | 18.5 | 0 |
| | | 25 RB | 0 | 1715 | 132022 | 18.23 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.10 | 18.5 | 0 |
| | | | | 1775 | 132622 | 18.26 | 18.5 | 0 |
| | | | 12 | 1715 | 132022 | 18.25 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.19 | 18.5 | 0 |
| | | | | 1775 | 132622 | 18.29 | 18.5 | 0 |
| | | | 25 | 1715 | 132022 | 18.10 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.22 | 18.5 | 0 |
| | | | | 1775 | 132622 | 18.24 | 18.5 | 0 |
| | | 50RB | | 1715 | 132022 | 18.29 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.09 | 18.5 | 0 |
| | | | | 1775 | 132622 | 18.23 | 18.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1715 | 132022 | 18.26 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.10 | 18.5 | 0 |
| | | | | 1775 | 132622 | 18.19 | 18.5 | 0 |
| | | | 25 | 1715 | 132022 | 18.27 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.12 | 18.5 | 0 |
| | | | | 1775 | 132622 | 18.14 | 18.5 | 0 |
| | | | 49 | 1715 | 132022 | 18.25 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.27 | 18.5 | 0 |
| | | | | 1775 | 132622 | 18.21 | 18.5 | 0 |
| | | 25 RB | 0 | 1715 | 132022 | 18.25 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.20 | 18.5 | 0 |
| | | | | 1775 | 132622 | 18.28 | 18.5 | 0 |
| | | | 12 | 1715 | 132022 | 18.20 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.12 | 18.5 | 0 |
| | | | | 1775 | 132622 | 18.16 | 18.5 | 0 |
| | | | 25 | 1715 | 132022 | 18.18 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.25 | 18.5 | 0 |
| | | | | 1775 | 132622 | 18.12 | 18.5 | 0 |
| | | 50RB | | 1715 | 132022 | 18.21 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.28 | 18.5 | 0 |
| | | | | 1775 | 132622 | 18.11 | 18.5 | 0 |

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| FDD Band 66 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 1712.5 | 131997 | 18.10 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.22 | 18.5 | 0 |
| | | | | 1777.5 | 132647 | 18.28 | 18.5 | 0 |
| | | | 12 | 1712.5 | 131997 | 18.24 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.27 | 18.5 | 0 |
| | | | | 1777.5 | 132647 | 18.11 | 18.5 | 0 |
| | | | 24 | 1712.5 | 131997 | 18.17 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.21 | 18.5 | 0 |
| | | | | 1777.5 | 132647 | 18.21 | 18.5 | 0 |
| | | 12 RB | 0 | 1712.5 | 131997 | 18.13 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.11 | 18.5 | 0 |
| | | | | 1777.5 | 132647 | 18.27 | 18.5 | 0 |
| | | | 6 | 1712.5 | 131997 | 18.23 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.24 | 18.5 | 0 |
| | | | | 1777.5 | 132647 | 18.09 | 18.5 | 0 |
| | | | 13 | 1712.5 | 131997 | 18.15 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.23 | 18.5 | 0 |
| | | | | 1777.5 | 132647 | 18.14 | 18.5 | 0 |
| | | 25RB | | 1712.5 | 131997 | 18.24 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.19 | 18.5 | 0 |
| | | | | 1777.5 | 132647 | 18.23 | 18.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1712.5 | 131997 | 18.28 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.13 | 18.5 | 0 |
| | | | | 1777.5 | 132647 | 18.11 | 18.5 | 0 |
| | | | 12 | 1712.5 | 131997 | 18.21 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.14 | 18.5 | 0 |
| | | | | 1777.5 | 132647 | 18.11 | 18.5 | 0 |
| | | | 24 | 1712.5 | 131997 | 18.26 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.24 | 18.5 | 0 |
| | | | | 1777.5 | 132647 | 18.26 | 18.5 | 0 |
| | | 12 RB | 0 | 1712.5 | 131997 | 18.09 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.14 | 18.5 | 0 |
| | | | | 1777.5 | 132647 | 18.22 | 18.5 | 0 |
| | | | 6 | 1712.5 | 131997 | 18.23 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.18 | 18.5 | 0 |
| | | | | 1777.5 | 132647 | 18.24 | 18.5 | 0 |
| | | | 13 | 1712.5 | 131997 | 18.18 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.26 | 18.5 | 0 |
| | | | | 1777.5 | 132647 | 18.19 | 18.5 | 0 |
| | | 25RB | | 1712.5 | 131997 | 18.14 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.26 | 18.5 | 0 |
| | | | | 1777.5 | 132647 | 18.23 | 18.5 | 0 |

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| FDD Band 66 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 3 | QPSK | 1 RB | 0 | 1711.5 | 131987 | 18.23 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.20 | 18.5 | 0 |
| | | | | 1778.5 | 132657 | 18.24 | 18.5 | 0 |
| | | | 7 | 1711.5 | 131987 | 18.17 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.20 | 18.5 | 0 |
| | | | | 1778.5 | 132657 | 18.28 | 18.5 | 0 |
| | | | 14 | 1711.5 | 131987 | 18.28 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.13 | 18.5 | 0 |
| | | | | 1778.5 | 132657 | 18.22 | 18.5 | 0 |
| | | 8 RB | 0 | 1711.5 | 131987 | 18.20 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.20 | 18.5 | 0 |
| | | | | 1778.5 | 132657 | 18.28 | 18.5 | 0 |
| | | | 4 | 1711.5 | 131987 | 18.20 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.25 | 18.5 | 0 |
| | | | | 1778.5 | 132657 | 18.11 | 18.5 | 0 |
| | | | 7 | 1711.5 | 131987 | 18.11 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.22 | 18.5 | 0 |
| | | | | 1778.5 | 132657 | 18.20 | 18.5 | 0 |
| | | 15RB | | 1711.5 | 131987 | 18.13 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.21 | 18.5 | 0 |
| | | | | 1778.5 | 132657 | 18.27 | 18.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1711.5 | 131987 | 18.24 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.15 | 18.5 | 0 |
| | | | | 1778.5 | 132657 | 18.14 | 18.5 | 0 |
| | | | 7 | 1711.5 | 131987 | 18.28 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.25 | 18.5 | 0 |
| | | | | 1778.5 | 132657 | 18.12 | 18.5 | 0 |
| | | | 14 | 1711.5 | 131987 | 18.17 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.25 | 18.5 | 0 |
| | | | | 1778.5 | 132657 | 18.24 | 18.5 | 0 |
| | | 8 RB | 0 | 1711.5 | 131987 | 18.12 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.12 | 18.5 | 0 |
| | | | | 1778.5 | 132657 | 18.25 | 18.5 | 0 |
| | | | 4 | 1711.5 | 131987 | 18.15 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.24 | 18.5 | 0 |
| | | | | 1778.5 | 132657 | 18.13 | 18.5 | 0 |
| | | | 7 | 1711.5 | 131987 | 18.12 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.10 | 18.5 | 0 |
| | | | | 1778.5 | 132657 | 18.28 | 18.5 | 0 |
| | | 15RB | | 1711.5 | 131987 | 18.23 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.19 | 18.5 | 0 |
| | | | | 1778.5 | 132657 | 18.27 | 18.5 | 0 |

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| FDD Band 66 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 1.4 | QPSK | 1 RB | 0 | 1710.7 | 131979 | 18.15 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.12 | 18.5 | 0 |
| | | | | 1779.3 | 132665 | 18.19 | 18.5 | 0 |
| | | | 2 | 1710.7 | 131979 | 18.25 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.26 | 18.5 | 0 |
| | | | | 1779.3 | 132665 | 18.20 | 18.5 | 0 |
| | | | 5 | 1710.7 | 131979 | 18.12 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.20 | 18.5 | 0 |
| | | | | 1779.3 | 132665 | 18.22 | 18.5 | 0 |
| | | 3 RB | 0 | 1710.7 | 131979 | 18.20 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.12 | 18.5 | 0 |
| | | | | 1779.3 | 132665 | 18.13 | 18.5 | 0 |
| | | | 2 | 1710.7 | 131979 | 18.13 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.12 | 18.5 | 0 |
| | | | | 1779.3 | 132665 | 18.18 | 18.5 | 0 |
| | | | 3 | 1710.7 | 131979 | 18.21 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.23 | 18.5 | 0 |
| | | | | 1779.3 | 132665 | 18.18 | 18.5 | 0 |
| | | 6RB | | 1710.7 | 131979 | 18.25 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.12 | 18.5 | 0 |
| | | | | 1779.3 | 132665 | 18.15 | 18.5 | 0 |
| | 16-QAM | 1 RB | 0 | 1710.7 | 131979 | 18.25 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.18 | 18.5 | 0 |
| | | | | 1779.3 | 132665 | 18.13 | 18.5 | 0 |
| | | | 2 | 1710.7 | 131979 | 18.15 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.18 | 18.5 | 0 |
| | | | | 1779.3 | 132665 | 18.25 | 18.5 | 0 |
| | | | 5 | 1710.7 | 131979 | 18.28 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.20 | 18.5 | 0 |
| | | | | 1779.3 | 132665 | 18.16 | 18.5 | 0 |
| | | 3 RB | 0 | 1710.7 | 131979 | 18.19 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.26 | 18.5 | 0 |
| | | | | 1779.3 | 132665 | 18.22 | 18.5 | 0 |
| | | | 2 | 1710.7 | 131979 | 18.18 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.19 | 18.5 | 0 |
| | | | | 1779.3 | 132665 | 18.11 | 18.5 | 0 |
| | | | 3 | 1710.7 | 131979 | 18.18 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.21 | 18.5 | 0 |
| | | | | 1779.3 | 132665 | 18.21 | 18.5 | 0 |
| | | 6RB | | 1710.7 | 131979 | 18.20 | 18.5 | 0 |
| | | | | 1745 | 132322 | 18.23 | 18.5 | 0 |
| | | | | 1779.3 | 132665 | 18.22 | 18.5 | 0 |

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## LTE TDD Band 38 (Reduced power):

| TDD Band 38 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 20 | QPSK | 1 RB | 0 | 2580 | 37850 | 16.35 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.32 | 16.5 | 0 |
| | | | | 2610 | 38150 | 16.32 | 16.5 | 0 |
| | | | 50 | 2580 | 37850 | 16.42 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.34 | 16.5 | 0 |
| | | | | 2610 | 38150 | 16.48 | 16.5 | 0 |
| | | | 99 | 2580 | 37850 | 16.30 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.39 | 16.5 | 0 |
| | | | | 2610 | 38150 | 16.32 | 16.5 | 0 |
| | | 50 RB | 0 | 2580 | 37850 | 16.29 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.34 | 16.5 | 0 |
| | | | | 2610 | 38150 | 16.36 | 16.5 | 0 |
| | | | 25 | 2580 | 37850 | 16.21 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.31 | 16.5 | 0 |
| | | | | 2610 | 38150 | 16.25 | 16.5 | 0 |
| | | | 50 | 2580 | 37850 | 16.28 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.39 | 16.5 | 0 |
| | | | | 2610 | 38150 | 16.23 | 16.5 | 0 |
| | | 100RB | | 2580 | 37850 | 16.27 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.34 | 16.5 | 0 |
| | | | | 2610 | 38150 | 16.32 | 16.5 | 0 |
| | 16-QAM | 1 RB | 0 | 2580 | 37850 | 16.36 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.35 | 16.5 | 0 |
| | | | | 2610 | 38150 | 16.25 | 16.5 | 0 |
| | | | 50 | 2580 | 37850 | 16.28 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.23 | 16.5 | 0 |
| | | | | 2610 | 38150 | 16.32 | 16.5 | 0 |
| | | | 99 | 2580 | 37850 | 16.31 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.36 | 16.5 | 0 |
| | | | | 2610 | 38150 | 16.26 | 16.5 | 0 |
| | | 50 RB | 0 | 2580 | 37850 | 16.31 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.31 | 16.5 | 0 |
| | | | | 2610 | 38150 | 16.34 | 16.5 | 0 |
| | | | 25 | 2580 | 37850 | 16.26 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.32 | 16.5 | 0 |
| | | | | 2610 | 38150 | 16.22 | 16.5 | 0 |
| | | | 50 | 2580 | 37850 | 16.38 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.38 | 16.5 | 0 |
| | | | | 2610 | 38150 | 16.37 | 16.5 | 0 |
| | | 100RB | | 2580 | 37850 | 16.31 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.29 | 16.5 | 0 |
| | | | | 2610 | 38150 | 16.35 | 16.5 | 0 |

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| TDD Band 38 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 15 | QPSK | 1 RB | 0 | 2577.5 | 37825 | 16.22 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.40 | 16.5 | 0 |
| | | | | 2612.5 | 38175 | 16.25 | 16.5 | 0 |
| | | | 36 | 2577.5 | 37825 | 16.33 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.25 | 16.5 | 0 |
| | | | | 2612.5 | 38175 | 16.37 | 16.5 | 0 |
| | | | 74 | 2577.5 | 37825 | 16.37 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.22 | 16.5 | 0 |
| | | | | 2612.5 | 38175 | 16.28 | 16.5 | 0 |
| | | 36 RB | 0 | 2577.5 | 37825 | 16.26 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.36 | 16.5 | 0 |
| | | | | 2612.5 | 38175 | 16.38 | 16.5 | 0 |
| | | | 18 | 2577.5 | 37825 | 16.29 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.22 | 16.5 | 0 |
| | | | | 2612.5 | 38175 | 16.34 | 16.5 | 0 |
| | | | 37 | 2577.5 | 37825 | 16.28 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.30 | 16.5 | 0 |
| | | | | 2612.5 | 38175 | 16.21 | 16.5 | 0 |
| | | 75RB | | 2577.5 | 37825 | 16.33 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.24 | 16.5 | 0 |
| | | | | 2612.5 | 38175 | 16.27 | 16.5 | 0 |
| | 16-QAM | 1 RB | 0 | 2577.5 | 37825 | 16.28 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.29 | 16.5 | 0 |
| | | | | 2612.5 | 38175 | 16.32 | 16.5 | 0 |
| | | | 36 | 2577.5 | 37825 | 16.24 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.21 | 16.5 | 0 |
| | | | | 2612.5 | 38175 | 16.26 | 16.5 | 0 |
| | | | 74 | 2577.5 | 37825 | 16.32 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.38 | 16.5 | 0 |
| | | | | 2612.5 | 38175 | 16.33 | 16.5 | 0 |
| | | 36 RB | 0 | 2577.5 | 37825 | 16.23 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.31 | 16.5 | 0 |
| | | | | 2612.5 | 38175 | 16.36 | 16.5 | 0 |
| | | | 18 | 2577.5 | 37825 | 16.31 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.29 | 16.5 | 0 |
| | | | | 2612.5 | 38175 | 16.21 | 16.5 | 0 |
| | | | 37 | 2577.5 | 37825 | 16.34 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.24 | 16.5 | 0 |
| | | | | 2612.5 | 38175 | 16.29 | 16.5 | 0 |
| | | 75RB | | 2577.5 | 37825 | 16.20 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.20 | 16.5 | 0 |
| | | | | 2612.5 | 38175 | 16.35 | 16.5 | 0 |

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| TDD Band 38 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 10 | QPSK | 1 RB | 0 | 2575 | 37800 | 16.36 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.28 | 16.5 | 0 |
| | | | | 2615 | 38200 | 16.32 | 16.5 | 0 |
| | | | 25 | 2575 | 37800 | 16.37 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.21 | 16.5 | 0 |
| | | | | 2615 | 38200 | 16.34 | 16.5 | 0 |
| | | | 49 | 2575 | 37800 | 16.23 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.20 | 16.5 | 0 |
| | | | | 2615 | 38200 | 16.32 | 16.5 | 0 |
| | | 25 RB | 0 | 2575 | 37800 | 16.21 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.28 | 16.5 | 0 |
| | | | | 2615 | 38200 | 16.32 | 16.5 | 0 |
| | | | 12 | 2575 | 37800 | 16.25 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.27 | 16.5 | 0 |
| | | | | 2615 | 38200 | 16.23 | 16.5 | 0 |
| | | | 25 | 2575 | 37800 | 16.21 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.35 | 16.5 | 0 |
| | | | | 2615 | 38200 | 16.28 | 16.5 | 0 |
| | | 50RB | | 2575 | 37800 | 16.33 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.24 | 16.5 | 0 |
| | | | | 2615 | 38200 | 16.22 | 16.5 | 0 |
| | 16-QAM | 1 RB | 0 | 2575 | 37800 | 16.30 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.36 | 16.5 | 0 |
| | | | | 2615 | 38200 | 16.40 | 16.5 | 0 |
| | | | 25 | 2575 | 37800 | 16.22 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.34 | 16.5 | 0 |
| | | | | 2615 | 38200 | 16.35 | 16.5 | 0 |
| | | | 49 | 2575 | 37800 | 16.22 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.21 | 16.5 | 0 |
| | | | | 2615 | 38200 | 16.32 | 16.5 | 0 |
| | | 25 RB | 0 | 2575 | 37800 | 16.22 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.31 | 16.5 | 0 |
| | | | | 2615 | 38200 | 16.27 | 16.5 | 0 |
| | | | 12 | 2575 | 37800 | 16.22 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.38 | 16.5 | 0 |
| | | | | 2615 | 38200 | 16.20 | 16.5 | 0 |
| | | | 25 | 2575 | 37800 | 16.22 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.22 | 16.5 | 0 |
| | | | | 2615 | 38200 | 16.35 | 16.5 | 0 |
| | | 50RB | | 2575 | 37800 | 16.28 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.25 | 16.5 | 0 |
| | | | | 2615 | 38200 | 16.35 | 16.5 | 0 |

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| TDD Band 38 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW(Mhz) | Modulation | RB Size | RB Offset | Frequency (MHz) | Channel | Conducted power (dBm) | Target Power + Max. Tolerance (dBm) | MPR Allowed per 3GPP(dB) |
| 5 | QPSK | 1 RB | 0 | 2572.5 | 37775 | 16.40 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.35 | 16.5 | 0 |
| | | | | 2617.5 | 38225 | 16.24 | 16.5 | 0 |
| | | | 12 | 2572.5 | 37775 | 16.37 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.29 | 16.5 | 0 |
| | | | | 2617.5 | 38225 | 16.35 | 16.5 | 0 |
| | | | 24 | 2572.5 | 37775 | 16.21 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.25 | 16.5 | 0 |
| | | | | 2617.5 | 38225 | 16.27 | 16.5 | 0 |
| | | 12 RB | 0 | 2572.5 | 37775 | 16.28 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.32 | 16.5 | 0 |
| | | | | 2617.5 | 38225 | 16.28 | 16.5 | 0 |
| | | | 6 | 2572.5 | 37775 | 16.21 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.26 | 16.5 | 0 |
| | | | | 2617.5 | 38225 | 16.25 | 16.5 | 0 |
| | | | 13 | 2572.5 | 37775 | 16.21 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.39 | 16.5 | 0 |
| | | | | 2617.5 | 38225 | 16.31 | 16.5 | 0 |
| | | 25RB | | 2572.5 | 37775 | 16.38 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.40 | 16.5 | 0 |
| | | | | 2617.5 | 38225 | 16.27 | 16.5 | 0 |
| | 16-QAM | 1 RB | 0 | 2572.5 | 37775 | 16.39 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.25 | 16.5 | 0 |
| | | | | 2617.5 | 38225 | 16.29 | 16.5 | 0 |
| | | | 12 | 2572.5 | 37775 | 16.37 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.34 | 16.5 | 0 |
| | | | | 2617.5 | 38225 | 16.22 | 16.5 | 0 |
| | | | 24 | 2572.5 | 37775 | 16.20 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.30 | 16.5 | 0 |
| | | | | 2617.5 | 38225 | 16.34 | 16.5 | 0 |
| | | 12 RB | 0 | 2572.5 | 37775 | 16.34 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.36 | 16.5 | 0 |
| | | | | 2617.5 | 38225 | 16.25 | 16.5 | 0 |
| | | | 6 | 2572.5 | 37775 | 16.28 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.38 | 16.5 | 0 |
| | | | | 2617.5 | 38225 | 16.25 | 16.5 | 0 |
| | | | 13 | 2572.5 | 37775 | 16.21 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.35 | 16.5 | 0 |
| | | | | 2617.5 | 38225 | 16.33 | 16.5 | 0 |
| | | 25RB | | 2572.5 | 37775 | 16.31 | 16.5 | 0 |
| | | | | 2595 | 38000 | 16.26 | 16.5 | 0 |
| | | | | 2617.5 | 38225 | 16.37 | 16.5 | 0 |

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**WLAN802.11 a/b/g/n(20M/40M)/ac(20M/40M/80M) conducted power table:**

| Antenna / Band | SISO | | MIMO |
|---|---|---|---|
| | Chain 0 | Chain 1 | Chain0+1 |
| WLAN802.11b | V | V | - |
| WLAN802.11g | V | V | - |
| WLAN802.11n(20M) | V | V | V |
| WLAN802.11n(40M) | V | V | V |
| WLAN802.11a | V | V | - |
| WLAN802.11n(20M) 5G | V | V | V |
| WLAN802.11n(40M) 5G | V | V | V |
| WLAN802.11ac(20M) 5G | V | V | V |
| WLAN802.11ac(40M) 5G | V | V | V |
| WLAN802.11ac(80M) 5G | V | V | V |

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## Full power (Laptop mode)

## Main (Chain 0)

| Main Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz | 802.11b | 1 | 2412 | 1Mbps | 20.00 | 19.84 |
| | | 2 | 2417 | | 20.00 | 19.92 |
| | | 6 | 2437 | | 20.00 | 19.93 |
| | | 10 | 2457 | | 20.00 | 19.98 |
| | | 11 | 2462 | | 20.00 | 19.81 |
| | | 12 | 2467 | | 16.50 | 16.40 |
| | | 13 | 2472 | | 8.50 | 8.37 |
| | 802.11g | 1 | 2412 | 6Mbps | 18.00 | 17.94 |
| | | 2 | 2417 | | 20.00 | 19.95 |
| | | 6 | 2437 | | 20.00 | 19.86 |
| | | 10 | 2457 | | 17.50 | 17.39 |
| | | 11 | 2462 | | 17.50 | 17.44 |
| | | 12 | 2467 | | 11.50 | 11.43 |
| | | 13 | 2472 | | -2.50 | -2.64 |
| | 802.11n20-HT0 | 1 | 2412 | MCS0 | 18.00 | 17.97 |
| | | 2 | 2417 | | 20.00 | 19.89 |
| | | 6 | 2437 | | 20.00 | 19.88 |
| | | 10 | 2457 | | 17.50 | 17.39 |
| | | 11 | 2462 | | 17.50 | 17.37 |
| | | 12 | 2467 | | 11.50 | 11.36 |
| | | 13 | 2472 | | -2.50 | -2.63 |
| | 802.11n40-HT0 | 3 | 2422 | MCS0 | 18.00 | 17.85 |
| | | 4 | 2427 | | 18.50 | 18.40 |
| | | 6 | 2437 | | 19.00 | 18.96 |
| | | 8 | 2447 | | 17.00 | 16.90 |
| | | 9 | 2452 | | 16.00 | 15.90 |
| | | 10 | 2457 | | 12.50 | 12.41 |
| | | 11 | 2462 | | -2.50 | -2.76 |

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| Main Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.15-5.25 GHz | 802.11a | 36 | 5180 | 6Mbps | 18.00 | 17.97 |
| | | 40 | 5200 | | 20.00 | 19.95 |
| | | 44 | 5220 | | 20.00 | 19.98 |
| | | 48 | 5240 | | 19.50 | 19.46 |
| | 802.11n20-HT0 | 36 | 5180 | MCS0 | 18.00 | 17.96 |
| | | 40 | 5200 | | 20.00 | 19.87 |
| | | 44 | 5220 | | 20.00 | 19.93 |
| | | 48 | 5240 | | 19.50 | 19.41 |
| | 802.11ac20-VHT0 | 36 | 5180 | MCS0 | 18.00 | 17.81 |
| | | 40 | 5200 | | 20.00 | 19.86 |
| | | 44 | 5220 | | 20.00 | 19.90 |
| | | 48 | 5240 | | 19.50 | 19.45 |
| | 802.11n40-HT0 | 38 | 5190 | MCS0 | 18.00 | 17.91 |
| | | 46 | 5230 | | 20.00 | 19.93 |
| | 802.11ac40-VHT0 | 38 | 5190 | MCS0 | 18.00 | 17.83 |
| | | 46 | 5230 | | 20.00 | 19.80 |
| | 802.11ac80-VHT0 | 42 | 5210 | MCS0 | 14.00 | 13.92 |

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| Main Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.25-5.35 GHz | 802.11a | 52 | 5260 | 6Mbps | 20.00 | 19.97 |
| | | 56 | 5280 | | 20.00 | 19.89 |
| | | 60 | 5300 | | 20.00 | 19.95 |
| | | 64 | 5320 | | 16.00 | 15.89 |
| | 802.11n20-HT0 | 52 | 5260 | MCS0 | 20.00 | 19.96 |
| | | 56 | 5280 | | 20.00 | 19.85 |
| | | 60 | 5300 | | 20.00 | 19.91 |
| | | 64 | 5320 | | 16.00 | 15.95 |
| | 802.11ac20-VHT0 | 52 | 5260 | MCS0 | 20.00 | 19.85 |
| | | 56 | 5280 | | 20.00 | 19.82 |
| | | 60 | 5300 | | 20.00 | 19.89 |
| | | 64 | 5320 | | 16.00 | 15.90 |
| | 802.11n40-HT0 | 54 | 5270 | MCS0 | 20.00 | 19.92 |
| | | 62 | 5310 | | 14.50 | 14.36 |
| | 802.11ac40-VHT0 | 54 | 5270 | MCS0 | 20.00 | 19.92 |
| | | 62 | 5310 | | 14.50 | 14.35 |
| | 802.11ac80-VHT0 | 58 | 5290 | MCS0 | 12.00 | 11.84 |

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| Main Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 MHz | 802.11a | 100 | 5500 | 6Mbps | 16.50 | 16.33 |
| | | 104 | 5520 | | 20.00 | 19.88 |
| | | 116 | 5580 | | 20.00 | 19.82 |
| | | 120 | 5600 | | 20.00 | 19.78 |
| | | 124 | 5620 | | 20.00 | 19.77 |
| | | 128 | 5640 | | 20.00 | 19.83 |
| | | 136 | 5680 | | 20.00 | 19.81 |
| | | 140 | 5700 | | 16.00 | 15.84 |
| | 802.11n20-HT0 | 100 | 5500 | MCS0 | 16.50 | 16.39 |
| | | 104 | 5520 | | 20.00 | 19.92 |
| | | 116 | 5580 | | 20.00 | 19.84 |
| | | 120 | 5600 | | 20.00 | 19.80 |
| | | 124 | 5620 | | 20.00 | 19.86 |
| | | 128 | 5640 | | 20.00 | 19.76 |
| | | 136 | 5680 | | 20.00 | 19.77 |
| | | 140 | 5700 | | 16.00 | 15.91 |
| | 802.11ac20-VHT0 | 100 | 5500 | MCS0 | 16.50 | 16.30 |
| | | 104 | 5520 | | 20.00 | 19.88 |
| | | 116 | 5580 | | 20.00 | 19.81 |
| | | 120 | 5600 | | 20.00 | 19.77 |
| | | 124 | 5620 | | 20.00 | 19.87 |
| | | 128 | 5640 | | 20.00 | 19.93 |
| | | 136 | 5680 | | 20.00 | 19.80 |
| | | 140 | 5700 | | 16.00 | 15.80 |
| | | 144 | 5720 | | 20.00 | 19.88 |
| | 802.11n40-HT0 | 102 | 5510 | MCS0 | 16.50 | 16.34 |
| | | 110 | 5550 | | 20.00 | 19.88 |
| | | 118 | 5590 | | 20.00 | 19.73 |
| | | 126 | 5630 | | 20.00 | 19.87 |
| | | 134 | 5670 | | 17.00 | 16.90 |
| | | 142 | 5710 | | 20.00 | 19.87 |
| | 802.11ac40-VHT0 | 102 | 5510 | MCS0 | 16.50 | 16.40 |
| | | 110 | 5550 | | 20.00 | 19.90 |
| | | 118 | 5590 | | 20.00 | 19.85 |
| | | 126 | 5630 | | 20.00 | 19.89 |
| | | 134 | 5670 | | 17.00 | 16.88 |
| | | 142 | 5710 | | 20.00 | 19.93 |
| | 802.11ac80-VHT0 | 106 | 5530 | MCS0 | 13.50 | 13.42 |
| | | 122 | 5610 | | 17.50 | 17.37 |
| | | 138 | 5690 | | 20.00 | 19.94 |

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| Main Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5800 MHz | 802.11a | 149 | 5745 | 6Mbps | 20.00 | 19.88 |
| | | 157 | 5785 | | 20.00 | 19.94 |
| | | 165 | 5825 | | 20.00 | 19.81 |
| | 802.11n20-HT0 | 149 | 5745 | MCS0 | 20.00 | 19.88 |
| | | 157 | 5785 | | 20.00 | 19.86 |
| | | 165 | 5825 | | 20.00 | 19.97 |
| | 802.11ac20-VHT0 | 149 | 5745 | MCS0 | 20.00 | 19.84 |
| | | 157 | 5785 | | 20.00 | 19.88 |
| | | 165 | 5825 | | 20.00 | 19.81 |
| | 802.11n40-HT0 | 151 | 5755 | MCS0 | 20.00 | 19.89 |
| | | 159 | 5795 | | 20.00 | 19.90 |
| | 802.11ac40-VHT0 | 151 | 5755 | MCS0 | 20.00 | 19.91 |
| | | 159 | 5795 | | 20.00 | 19.87 |
| | 802.11ac80-VHT0 | 155 | 5775 | MCS0 | 17.50 | 17.40 |

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## Full power (Laptop mode)

## Aux (Chain 1)

| Aux Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz | 802.11b | 1 | 2412 | 1Mbps | 18.00 | 17.89 |
| | | 2 | 2417 | | 20.00 | 19.93 |
| | | 6 | 2437 | | 20.00 | 19.90 |
| | | 10 | 2457 | | 20.00 | 19.91 |
| | | 11 | 2462 | | 18.50 | 18.46 |
| | | 12 | 2467 | | 16.00 | 15.87 |
| | | 13 | 2472 | | 8.50 | 8.46 |
| | 802.11g | 1 | 2412 | 6Mbps | 18.00 | 17.88 |
| | | 2 | 2417 | | 20.00 | 19.89 |
| | | 6 | 2437 | | 20.00 | 19.98 |
| | | 10 | 2457 | | 17.50 | 17.43 |
| | | 11 | 2462 | | 17.00 | 16.91 |
| | | 12 | 2467 | | 10.50 | 10.38 |
| | | 13 | 2472 | | -2.50 | -2.52 |
| | 802.11n20-HT0 | 1 | 2412 | MCS0 | 18.00 | 17.86 |
| | | 2 | 2417 | | 20.00 | 19.97 |
| | | 6 | 2437 | | 20.00 | 19.89 |
| | | 10 | 2457 | | 17.50 | 17.36 |
| | | 11 | 2462 | | 17.00 | 16.90 |
| | | 12 | 2467 | | 10.50 | 10.44 |
| | | 13 | 2472 | | -2.50 | -2.71 |
| | 802.11n40-HT0 | 3 | 2422 | MCS0 | 17.00 | 16.86 |
| | | 4 | 2427 | | 17.50 | 17.34 |
| | | 6 | 2437 | | 19.00 | 18.78 |
| | | 8 | 2447 | | 16.50 | 16.36 |
| | | 9 | 2452 | | 16.00 | 15.91 |
| | | 10 | 2457 | | 12.50 | 12.40 |
| | | 11 | 2462 | | -2.50 | -2.69 |

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| Aux Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.15-5.25 GHz | 802.11a | 36 | 5180 | 6Mbps | 17.50 | 17.44 |
| | | 40 | 5200 | | 19.50 | 19.41 |
| | | 44 | 5220 | | 20.00 | 19.98 |
| | | 48 | 5240 | | 19.50 | 19.46 |
| | 802.11n20-HT0 | 36 | 5180 | MCS0 | 17.50 | 17.36 |
| | | 40 | 5200 | | 19.50 | 19.40 |
| | | 44 | 5220 | | 20.00 | 19.89 |
| | | 48 | 5240 | | 19.50 | 19.45 |
| | 802.11ac20-VHT0 | 36 | 5180 | MCS0 | 17.50 | 17.29 |
| | | 40 | 5200 | | 19.50 | 19.34 |
| | | 44 | 5220 | | 20.00 | 19.88 |
| | | 48 | 5240 | | 19.50 | 19.41 |
| | 802.11n40-HT0 | 38 | 5190 | MCS0 | 18.00 | 17.93 |
| | | 46 | 5230 | | 20.00 | 19.93 |
| | 802.11ac40-VHT0 | 38 | 5190 | MCS0 | 18.00 | 17.97 |
| | | 46 | 5230 | | 20.00 | 19.93 |
| | 802.11ac80-VHT0 | 42 | 5210 | MCS0 | 14.00 | 13.86 |

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| Aux Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.25-5.35 GHz | 802.11a | 52 | 5260 | 6Mbps | 20.00 | 19.98 |
| | | 56 | 5280 | | 20.00 | 19.92 |
| | | 60 | 5300 | | 20.00 | 19.89 |
| | | 64 | 5320 | | 16.50 | 16.47 |
| | 802.11n20-HT0 | 52 | 5260 | MCS0 | 20.00 | 19.89 |
| | | 56 | 5280 | | 20.00 | 19.89 |
| | | 60 | 5300 | | 20.00 | 19.81 |
| | | 64 | 5320 | | 16.50 | 16.33 |
| | 802.11ac20-VHT0 | 52 | 5260 | MCS0 | 20.00 | 19.85 |
| | | 56 | 5280 | | 20.00 | 19.85 |
| | | 60 | 5300 | | 20.00 | 19.89 |
| | | 64 | 5320 | | 16.50 | 16.42 |
| | 802.11n40-HT0 | 54 | 5270 | MCS0 | 20.00 | 19.94 |
| | | 62 | 5310 | | 15.00 | 14.93 |
| | 802.11ac40-VHT0 | 54 | 5270 | MCS0 | 20.00 | 19.95 |
| | | 62 | 5310 | | 15.00 | 14.88 |
| | 802.11ac80-VHT0 | 58 | 5290 | MCS0 | 12.00 | 11.88 |

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| Aux Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 MHz | 802.11a | 100 | 5500 | 6Mbps | 17.50 | 17.43 |
| | | 104 | 5520 | | 20.00 | 19.91 |
| | | 116 | 5580 | | 20.00 | 19.80 |
| | | 120 | 5600 | | 20.00 | 19.91 |
| | | 124 | 5620 | | 20.00 | 19.84 |
| | | 128 | 5640 | | 20.00 | 19.83 |
| | | 136 | 5680 | | 20.00 | 19.86 |
| | | 140 | 5700 | | 16.00 | 15.91 |
| | 802.11n20-HT0 | 100 | 5500 | MCS0 | 17.50 | 17.36 |
| | | 104 | 5520 | | 20.00 | 19.90 |
| | | 116 | 5580 | | 20.00 | 19.89 |
| | | 120 | 5600 | | 20.00 | 19.87 |
| | | 124 | 5620 | | 20.00 | 19.84 |
| | | 128 | 5640 | | 20.00 | 19.92 |
| | | 136 | 5680 | | 20.00 | 19.91 |
| | | 140 | 5700 | | 16.00 | 15.89 |
| | 802.11ac20-VHT0 | 100 | 5500 | MCS0 | 17.50 | 17.45 |
| | | 104 | 5520 | | 20.00 | 19.95 |
| | | 116 | 5580 | | 20.00 | 19.92 |
| | | 120 | 5600 | | 20.00 | 19.86 |
| | | 124 | 5620 | | 20.00 | 19.87 |
| | | 128 | 5640 | | 20.00 | 19.91 |
| | | 136 | 5680 | | 20.00 | 19.89 |
| | | 140 | 5700 | | 16.00 | 15.86 |
| | | 144 | 5720 | | 20.00 | 19.91 |
| | 802.11n40-HT0 | 102 | 5510 | MCS0 | 16.50 | 16.48 |
| | | 110 | 5550 | | 20.00 | 19.90 |
| | | 118 | 5590 | | 20.00 | 19.82 |
| | | 126 | 5630 | | 20.00 | 19.83 |
| | | 134 | 5670 | | 17.00 | 16.98 |
| | | 142 | 5710 | | 20.00 | 19.96 |
| | 802.11ac40-VHT0 | 102 | 5510 | MCS0 | 16.50 | 16.37 |
| | | 110 | 5550 | | 20.00 | 19.96 |
| | | 118 | 5590 | | 20.00 | 19.94 |
| | | 126 | 5630 | | 20.00 | 19.92 |
| | | 134 | 5670 | | 17.00 | 16.92 |
| | | 142 | 5710 | | 20.00 | 19.90 |
| | 802.11ac80-VHT0 | 106 | 5530 | MCS0 | 14.00 | 13.89 |
| | | 122 | 5610 | | 18.50 | 18.36 |
| | | 138 | 5690 | | 20.00 | 19.96 |

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| Aux Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5800 MHz | 802.11a | 149 | 5745 | 6Mbps | 20.00 | 19.83 |
| | | 157 | 5785 | | 20.00 | 19.92 |
| | | 165 | 5825 | | 20.00 | 19.80 |
| | 802.11n20-HT0 | 149 | 5745 | MCS0 | 20.00 | 19.81 |
| | | 157 | 5785 | | 20.00 | 19.93 |
| | | 165 | 5825 | | 20.00 | 19.85 |
| | 802.11ac20-VHT0 | 149 | 5745 | MCS0 | 20.00 | 19.82 |
| | | 157 | 5785 | | 20.00 | 19.84 |
| | | 165 | 5825 | | 20.00 | 19.94 |
| | 802.11n40-HT0 | 151 | 5755 | MCS0 | 20.00 | 19.90 |
| | | 159 | 5795 | | 20.00 | 19.94 |
| | 802.11ac40-VHT0 | 151 | 5755 | MCS0 | 20.00 | 19.90 |
| | | 159 | 5795 | | 20.00 | 19.86 |
| | 802.11ac80-VHT0 | 155 | 5775 | MCS0 | 17.50 | 17.40 |

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## Reduced power (Tablet mode)

## Main (Chain 0)

| Main Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz | 802.11b | 1 | 2412 | 1Mbps | 18.00 | 17.93 |
| | | 6 | 2437 | | 18.00 | 17.92 |
| | | 11 | 2462 | | 18.00 | 17.87 |
| | | 12 | 2467 | | 16.50 | 16.42 |
| | | 13 | 2472 | | 8.50 | 8.22 |
| | 802.11g | 1 | 2412 | 6Mbps | 18.00 | 17.84 |
| | | 2 | 2417 | | 18.00 | 17.88 |
| | | 6 | 2437 | | 18.00 | 17.90 |
| | | 10 | 2457 | | 17.50 | 17.38 |
| | | 11 | 2462 | | 17.50 | 17.39 |
| | | 12 | 2467 | | 11.50 | 11.33 |
| | | 13 | 2472 | | -2.50 | -2.55 |
| | 802.11n20-HT0 | 1 | 2412 | MCS0 | 18.00 | 17.84 |
| | | 2 | 2417 | | 18.00 | 17.86 |
| | | 6 | 2437 | | 18.00 | 17.89 |
| | | 10 | 2457 | | 17.50 | 17.38 |
| | | 11 | 2462 | | 17.50 | 17.38 |
| | | 12 | 2467 | | 11.50 | 11.21 |
| | | 13 | 2472 | | -2.50 | -2.61 |
| | 802.11n40-HT0 | 3 | 2422 | MCS0 | 18.00 | 17.98 |
| | | 4 | 2427 | | 18.00 | 17.87 |
| | | 6 | 2437 | | 18.00 | 17.84 |
| | | 8 | 2447 | | 17.00 | 16.86 |
| | | 9 | 2452 | | 16.00 | 15.83 |
| | | 10 | 2457 | | 12.50 | 12.26 |
| | | 11 | 2462 | | -2.50 | -2.56 |

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| Main Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.15-5.25 GHz | 802.11a | 36 | 5180 | 6Mbps | 16.00 | 15.88 |
| | | 40 | 5200 | | 16.00 | 15.75 |
| | | 44 | 5220 | | 16.00 | 15.84 |
| | | 48 | 5240 | | 16.00 | 15.91 |
| | 802.11n20-HT0 | 36 | 5180 | MCS0 | 16.00 | 15.87 |
| | | 40 | 5200 | | 16.00 | 15.70 |
| | | 44 | 5220 | | 16.00 | 15.92 |
| | | 48 | 5240 | | 16.00 | 15.78 |
| | 802.11ac20-VHT0 | 36 | 5180 | MCS0 | 16.00 | 15.78 |
| | | 40 | 5200 | | 16.00 | 15.89 |
| | | 44 | 5220 | | 16.00 | 15.82 |
| | | 48 | 5240 | | 16.00 | 15.83 |
| | 802.11n40-HT0 | 38 | 5190 | MCS0 | 16.00 | 15.94 |
| | | 46 | 5230 | | 16.00 | 15.88 |
| | 802.11ac40-VHT0 | 38 | 5190 | MCS0 | 16.00 | 15.87 |
| | | 46 | 5230 | | 16.00 | 15.92 |
| | 802.11ac80-VHT0 | 42 | 5210 | MCS0 | 14.00 | 13.84 |

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| Main Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.25-5.35 GHz | 802.11a | 52 | 5260 | 6Mbps | 16.00 | 15.93 |
| | | 56 | 5280 | | 16.00 | 15.90 |
| | | 60 | 5300 | | 16.00 | 15.92 |
| | | 64 | 5320 | | 16.00 | 15.89 |
| | 802.11n20-HT0 | 52 | 5260 | MCS0 | 16.00 | 15.90 |
| | | 56 | 5280 | | 16.00 | 15.86 |
| | | 60 | 5300 | | 16.00 | 15.82 |
| | | 64 | 5320 | | 16.00 | 15.88 |
| | 802.11ac20-VHT0 | 52 | 5260 | MCS0 | 16.00 | 15.89 |
| | | 56 | 5280 | | 16.00 | 15.88 |
| | | 60 | 5300 | | 16.00 | 15.89 |
| | | 64 | 5320 | | 16.00 | 15.93 |
| | 802.11n40-HT0 | 54 | 5270 | MCS0 | 16.00 | 15.93 |
| | | 62 | 5310 | | 14.50 | 14.40 |
| | 802.11ac40-VHT0 | 54 | 5270 | MCS0 | 16.00 | 15.85 |
| | | 62 | 5310 | | 14.50 | 14.39 |
| | 802.11ac80-VHT0 | 58 | 5290 | MCS0 | 12.00 | 11.95 |

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| Main Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 MHz | 802.11a | 100 | 5500 | 6Mbps | 16.00 | 15.83 |
| | | 116 | 5580 | | 16.00 | 15.74 |
| | | 120 | 5600 | | 16.00 | 15.81 |
| | | 124 | 5620 | | 16.00 | 15.75 |
| | | 128 | 5640 | | 16.00 | 15.83 |
| | | 136 | 5680 | | 16.00 | 15.87 |
| | | 140 | 5700 | | 16.00 | 15.91 |
| | 802.11n20-HT0 | 100 | 5500 | MCS0 | 16.00 | 15.87 |
| | | 116 | 5580 | | 16.00 | 15.91 |
| | | 120 | 5600 | | 16.00 | 15.84 |
| | | 124 | 5620 | | 16.00 | 15.75 |
| | | 128 | 5640 | | 16.00 | 15.88 |
| | | 136 | 5680 | | 16.00 | 15.83 |
| | | 140 | 5700 | | 16.00 | 15.94 |
| | 802.11ac20-VHT0 | 100 | 5500 | MCS0 | 16.00 | 15.82 |
| | | 116 | 5580 | | 16.00 | 15.95 |
| | | 120 | 5600 | | 16.00 | 15.83 |
| | | 124 | 5620 | | 16.00 | 15.85 |
| | | 128 | 5640 | | 16.00 | 15.84 |
| | | 136 | 5680 | | 16.00 | 15.84 |
| | | 140 | 5700 | | 16.00 | 15.82 |
| | | 144 | 5720 | | 16.00 | 15.86 |
| | 802.11n40-HT0 | 102 | 5510 | MCS0 | 16.00 | 15.80 |
| | | 110 | 5550 | | 16.00 | 15.84 |
| | | 118 | 5590 | | 16.00 | 15.88 |
| | | 126 | 5630 | | 16.00 | 15.77 |
| | | 134 | 5670 | | 16.00 | 15.85 |
| | 802.11ac40-VHT0 | 102 | 5510 | MCS0 | 16.00 | 15.83 |
| | | 110 | 5550 | | 16.00 | 15.83 |
| | | 118 | 5590 | | 16.00 | 15.87 |
| | | 126 | 5630 | | 16.00 | 15.92 |
| | | 134 | 5670 | | 16.00 | 15.89 |
| | | 142 | 5710 | | 16.00 | 15.86 |
| | 802.11ac80-VHT0 | 106 | 5530 | MCS0 | 13.50 | 13.37 |
| | | 122 | 5610 | | 16.00 | 15.91 |
| | | 138 | 5690 | | 16.00 | 15.86 |

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| Main Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5800 MHz | 802.11a | 149 | 5745 | 6Mbps | 16.00 | 15.80 |
| | | 157 | 5785 | | 16.00 | 15.83 |
| | | 165 | 5825 | | 16.00 | 15.90 |
| | 802.11n20-HT0 | 149 | 5745 | MCS0 | 16.00 | 15.75 |
| | | 157 | 5785 | | 16.00 | 15.80 |
| | | 165 | 5825 | | 16.00 | 15.90 |
| | 802.11ac20-VHT0 | 149 | 5745 | MCS0 | 16.00 | 15.98 |
| | | 157 | 5785 | | 16.00 | 15.93 |
| | | 165 | 5825 | | 16.00 | 15.79 |
| | 802.11n40-HT0 | 151 | 5755 | MCS0 | 16.00 | 15.79 |
| | | 159 | 5795 | | 16.00 | 15.81 |
| | 802.11ac40-VHT0 | 151 | 5755 | MCS0 | 16.00 | 15.81 |
| | | 159 | 5795 | | 16.00 | 15.83 |
| | 802.11ac80-VHT0 | 155 | 5775 | MCS0 | 16.00 | 15.86 |

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## Reduced power (Tablet mode)

## Aux (Chain 1)

| Aux Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 2450 MHz | 802.11b | 1 | 2412 | 1Mbps | 18.00 | 17.97 |
| | | 6 | 2437 | | 18.00 | 17.89 |
| | | 11 | 2462 | | 18.00 | 17.94 |
| | | 12 | 2467 | | 16.00 | 15.80 |
| | | 13 | 2472 | | 8.50 | 8.26 |
| | 802.11g | 1 | 2412 | 6Mbps | 18.00 | 17.81 |
| | | 2 | 2417 | | 18.00 | 17.89 |
| | | 6 | 2437 | | 18.00 | 17.90 |
| | | 10 | 2457 | | 17.50 | 17.26 |
| | | 11 | 2462 | | 17.00 | 16.93 |
| | | 12 | 2467 | | 10.50 | 10.29 |
| | | 13 | 2472 | | -2.50 | -2.73 |
| | 802.11n20-HT0 | 1 | 2412 | MCS0 | 18.00 | 17.88 |
| | | 2 | 2417 | | 18.00 | 17.96 |
| | | 6 | 2437 | | 18.00 | 17.92 |
| | | 10 | 2457 | | 17.50 | 17.43 |
| | | 11 | 2462 | | 17.00 | 16.88 |
| | | 12 | 2467 | | 10.50 | 10.41 |
| | | 13 | 2472 | | -2.50 | -2.58 |
| | 802.11n40-HT0 | 3 | 2422 | MCS0 | 17.00 | 16.92 |
| | | 4 | 2427 | | 17.50 | 17.40 |
| | | 6 | 2437 | | 18.00 | 17.85 |
| | | 8 | 2447 | | 16.50 | 16.34 |
| | | 9 | 2452 | | 16.00 | 15.90 |
| | | 10 | 2457 | | 12.50 | 12.37 |
| | | 11 | 2462 | | -2.50 | -2.71 |

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| Aux Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.15-5.25 GHz | 802.11a | 36 | 5180 | 6Mbps | 16.50 | 16.33 |
| | | 40 | 5200 | | 16.50 | 16.27 |
| | | 44 | 5220 | | 16.50 | 16.36 |
| | | 48 | 5240 | | 16.50 | 16.37 |
| | 802.11n20-HT0 | 36 | 5180 | MCS0 | 16.50 | 16.28 |
| | | 40 | 5200 | | 16.50 | 16.35 |
| | | 44 | 5220 | | 16.50 | 16.39 |
| | | 48 | 5240 | | 16.50 | 16.41 |
| | 802.11ac20-VHT0 | 36 | 5180 | MCS0 | 16.50 | 16.31 |
| | | 40 | 5200 | | 16.50 | 16.39 |
| | | 44 | 5220 | | 16.50 | 16.30 |
| | | 48 | 5240 | | 16.50 | 16.24 |
| | 802.11n40-HT0 | 38 | 5190 | MCS0 | 16.50 | 16.48 |
| | | 46 | 5230 | | 16.50 | 16.40 |
| | 802.11ac40-VHT0 | 38 | 5190 | MCS0 | 16.50 | 16.40 |
| | | 46 | 5230 | | 16.50 | 16.34 |
| | 802.11ac80-VHT0 | 42 | 5210 | MCS0 | 14.00 | 13.94 |

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| Aux Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5.25-5.35 GHz | 802.11a | 52 | 5260 | 6Mbps | 16.50 | 16.41 |
| | | 56 | 5280 | | 16.50 | 16.37 |
| | | 60 | 5300 | | 16.50 | 16.33 |
| | | 64 | 5320 | | 16.50 | 16.49 |
| | 802.11n20-HT0 | 52 | 5260 | MCS0 | 16.50 | 16.36 |
| | | 56 | 5280 | | 16.50 | 16.40 |
| | | 60 | 5300 | | 16.50 | 16.37 |
| | | 64 | 5320 | | 16.50 | 16.37 |
| | 802.11ac20-VHT0 | 52 | 5260 | MCS0 | 16.50 | 16.34 |
| | | 56 | 5280 | | 16.50 | 16.25 |
| | | 60 | 5300 | | 16.50 | 16.41 |
| | | 64 | 5320 | | 16.50 | 16.40 |
| | 802.11n40-HT0 | 54 | 5270 | MCS0 | 16.50 | 16.36 |
| | | 62 | 5310 | | 15.00 | 14.92 |
| | 802.11ac40-VHT0 | 54 | 5270 | MCS0 | 16.50 | 16.44 |
| | | 62 | 5310 | | 15.00 | 14.88 |
| | 802.11ac80-VHT0 | 58 | 5290 | MCS0 | 12.00 | 11.85 |

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| Aux Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Band | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5600 MHz | 802.11a | 100 | 5500 | 6Mbps | 16.50 | 16.36 |
| | | 116 | 5580 | | 16.50 | 16.37 |
| | | 120 | 5600 | | 16.50 | 16.42 |
| | | 124 | 5620 | | 16.50 | 16.32 |
| | | 128 | 5640 | | 16.50 | 16.32 |
| | | 136 | 5680 | | 16.50 | 16.33 |
| | | 140 | 5700 | | 16.00 | 15.90 |
| | 802.11n20-HT0 | 100 | 5500 | MCS0 | 16.50 | 16.31 |
| | | 116 | 5580 | | 16.50 | 16.39 |
| | | 120 | 5600 | | 16.50 | 16.29 |
| | | 124 | 5620 | | 16.50 | 16.29 |
| | | 128 | 5640 | | 16.50 | 16.26 |
| | | 136 | 5680 | | 16.50 | 16.38 |
| | | 140 | 5700 | | 16.00 | 15.94 |
| | 802.11ac20-VHT0 | 100 | 5500 | MCS0 | 16.50 | 16.44 |
| | | 116 | 5580 | | 16.50 | 16.34 |
| | | 120 | 5600 | | 16.50 | 16.35 |
| | | 124 | 5620 | | 16.50 | 16.37 |
| | | 128 | 5640 | | 16.50 | 16.39 |
| | | 136 | 5680 | | 16.50 | 16.35 |
| | | 140 | 5700 | | 16.00 | 15.93 |
| | | 144 | 5720 | | 16.50 | 16.20 |
| | 802.11n40-HT0 | 102 | 5510 | MCS0 | 16.50 | 16.37 |
| | | 110 | 5550 | | 16.50 | 16.38 |
| | | 118 | 5590 | | 16.50 | 16.36 |
| | | 126 | 5630 | | 16.50 | 16.30 |
| | | 134 | 5670 | | 16.50 | 16.45 |
| | 802.11ac40-VHT0 | 102 | 5510 | MCS0 | 16.50 | 16.38 |
| | | 110 | 5550 | | 16.50 | 16.37 |
| | | 118 | 5590 | | 16.50 | 16.31 |
| | | 126 | 5630 | | 16.50 | 16.23 |
| | | 134 | 5670 | | 16.50 | 16.37 |
| | | 142 | 5710 | | 16.50 | 16.33 |
| | 802.11ac80-VHT0 | 106 | 5530 | MCS0 | 14.00 | 13.90 |
| | | 122 | 5610 | | 16.50 | 16.34 |
| | | 138 | 5690 | | 16.50 | 16.33 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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| Aux Antenna | | | | | | |
|---|---|---|---|---|---|---|
| Mode | Mode | Channel | Frequency (MHz) | Data Rate | Max. Rated Avg. Power + Max. Tolerance (dBm) | Average power (dBm) |
| 5800 MHz | 802.11a | 149 | 5745 | 6Mbps | 16.50 | 16.32 |
| | | 157 | 5785 | | 16.50 | 16.35 |
| | | 165 | 5825 | | 16.50 | 16.28 |
| | 802.11n20-HT0 | 149 | 5745 | MCS0 | 16.50 | 16.32 |
| | | 157 | 5785 | | 16.50 | 16.36 |
| | | 165 | 5825 | | 16.50 | 16.31 |
| | 802.11ac20-VHT0 | 149 | 5745 | MCS0 | 16.50 | 16.41 |
| | | 157 | 5785 | | 16.50 | 16.28 |
| | | 165 | 5825 | | 16.50 | 16.29 |
| | 802.11n40-HT0 | 151 | 5755 | MCS0 | 16.50 | 16.40 |
| | | 159 | 5795 | | 16.50 | 16.37 |
| | 802.11ac40-VHT0 | 151 | 5755 | MCS0 | 16.50 | 16.44 |
| | | 159 | 5795 | | 16.50 | 16.45 |
| | 802.11ac80-VHT0 | 155 | 5775 | MCS0 | 16.50 | 16.42 |

## Bluetooth conducted power table:

| Mode | Channel | Frequency (MHz) | Average Output Power (dBm) | | | Max. Rated Avg. Power + Max. Tolerance (dBm) |
|---|---|---|---|---|---|---|
| | | | 1Mbps | 2Mbps | 3Mbps | |
| BR/EDR | CH 00 | 2402 | 9.80 | 8.21 | 7.52 | 11.5 |
| | CH 39 | 2441 | 11.15 | 9.27 | 8.59 | |
| | CH 78 | 2480 | 9.72 | 8.03 | 7.05 | |

| Mode | Channel | Frequency (MHz) | Average Output Power (dBm) | Max. Rated Avg. Power + Max. Tolerance (dBm) |
|---|---|---|---|---|
| | | | GFSK | |
| LE | CH 00 | 2402 | 6.41 | 7 |
| | CH 20 | 2442 | 6.93 | |
| | CH 39 | 2480 | 5.69 | |

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## 1.3.1 LTE Downlink CA specification

### LTE Downlink 2CA conducted power table

| Two Component Carrier Maximum Conducted Power | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCC | | | | | | | | | SCC | | | | Full Power | | |
| PCC Band | PCC Bandwidth [MHz] | Modulation | PCC (UL) RB | PCC (UL) RB Offset | PCC (UL) Channel | PCC (UL) Frequency [MHz] | PCC (DL) Channel | PCC (DL) Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | LTE Tx.Power with DL CA active (dBm) | LTE Tx.Power with DL CA inactive (dBm) | Configurations |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B17 | 10 | 5790 | 740 | 23.80 | 23.86 | CA_2A-17A |
| LTE B17 | 10 | QPSK | 1 | 0 | 23800 | 711 | 5800 | 741 | LTE B2 | 20 | 900 | 1960 | 23.88 | 23.98 | CA_2A-17A |
| LTE B4 | 20 | QPSK | 1 | 99 | 20175 | 1732.5 | 2175 | 2132.5 | LTE B17 | 10 | 5790 | 740 | 23.55 | 23.65 | CA_4A-17A |
| LTE B17 | 10 | QPSK | 1 | 0 | 23800 | 711 | 5800 | 741 | LTE B4 | 20 | 2175 | 2132.5 | 23.75 | 23.98 | CA_4A-17A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | LTE B7 | 20 | 3100 | 2655 | 24.78 | 24.93 | CA_5A-7A |
| LTE B7 | 20 | QPSK | 1 | 0 | 21350 | 2560 | 3350 | 2680 | LTE B5 | 10 | 2525 | 881.5 | 23.92 | 23.98 | CA_5A-7A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | LTE B66 | 20 | 66786 | 2145 | 24.90 | 24.93 | CA_5A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B5 | 10 | 2525 | 881.5 | 23.55 | 23.63 | CA_5A-66A |
| LTE B7 | 20 | QPSK | 1 | 0 | 21350 | 2560 | 3350 | 2680 | LTE B7 | 20 | 3100 | 2655 | 23.85 | 23.98 | CA_7A-7A |
| LTE B7 | 20 | QPSK | 1 | 0 | 21350 | 2560 | 3350 | 2680 | LTE B7 | 20 | 3100 | 2655 | 23.84 | 23.98 | CA_7B |
| LTE B7 | 20 | QPSK | 1 | 0 | 21350 | 2560 | 3350 | 2680 | LTE B7 | 20 | 3100 | 2655 | 23.87 | 23.98 | CA_7C |
| LTE B25 | 20 | QPSK | 1 | 50 | 26140 | 1860 | 8140 | 1940 | LTE B26 | 15 | 8865 | 876.5 | 23.92 | 23.97 | CA_25A-26A |
| LTE B26 | 15 | QPSK | 1 | 0 | 26965 | 841.5 | 8965 | 886.5 | LTE B25 | 20 | 8365 | 1962.5 | 24.21 | 24.44 | CA_25A-26A |
| LTE B25 | 20 | QPSK | 1 | 50 | 26140 | 1860 | 8140 | 1940 | LTE B41 | 20 | 40620 | 2593 | 23.91 | 23.97 | CA_25A-41A |
| LTE B41 | 20 | QPSK | 1 | 0 | 41005 | 2636.5 | 41005 | 2636.5 | LTE B25 | 20 | 8365 | 1962.5 | 24.74 | 24.91 | CA_25A-41A |
| LTE B25 | 20 | QPSK | 1 | 99 | 26140 | 1860 | 8140 | 1940 | LTE B25 | 20 | 8590 | 1985 | 23.78 | 23.97 | CA_25A-25A |
| LTE B26 | 15 | QPSK | 1 | 0 | 26965 | 841.5 | 8965 | 886.5 | LTE B41 | 20 | 40620 | 2593 | 24.38 | 24.44 | CA_26A-41A |
| LTE B41 | 20 | QPSK | 1 | 0 | 41005 | 2636.5 | 41005 | 2636.5 | LTE B26 | 15 | 8865 | 876.5 | 24.85 | 24.91 | CA_26A-41A |
| LTE B41 | 20 | QPSK | 1 | 0 | 39750 | 2506 | 39750 | 2506 | LTE B41 | 20 | 41490 | 2680 | 24.00 | 24.09 | CA_41A-41A |

| Two Component Carrier Maximum Conducted Power | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCC | | | | | | | | | SCC | | | | Reduced Power | | |
| PCC Band | PCC Bandwidth [MHz] | Modulation | PCC (UL) RB | PCC (UL) RB Offset | PCC (UL) Channel | PCC (UL) Frequency [MHz] | PCC (DL) Channel | PCC (DL) Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | LTE Tx.Power with DL CA active (dBm) | LTE Tx.Power with DL CA inactive (dBm) | Configurations |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B17 | 10 | 5790 | 740 | 16.25 | 16.41 | CA_2A-17A |
| LTE B17 | 10 | QPSK | 1 | 0 | 23800 | 711 | 5800 | 741 | LTE B2 | 20 | 900 | 1960 | 20.15 | 20.29 | CA_2A-17A |
| LTE B4 | 20 | QPSK | 1 | 50 | 20050 | 1720 | 2050 | 2120 | LTE B17 | 10 | 5790 | 740 | 18.21 | 18.27 | CA_4A-17A |
| LTE B17 | 10 | QPSK | 1 | 0 | 23800 | 711 | 5800 | 741 | LTE B4 | 20 | 2175 | 2132.5 | 20.15 | 20.29 | CA_4A-17A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | LTE B7 | 20 | 3100 | 2655 | 21.40 | 22.43 | CA_5A-7A |
| LTE B7 | 20 | QPSK | 1 | 50 | 20850 | 2510 | 2850 | 2630 | LTE B5 | 10 | 2525 | 881.5 | 19.20 | 19.44 | CA_5A-7A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | LTE B66 | 20 | 66786 | 2145 | 22.34 | 22.43 | CA_5A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B5 | 10 | 2525 | 881.5 | 18.10 | 18.30 | CA_5A-66A |
| LTE B7 | 20 | QPSK | 1 | 50 | 20850 | 2510 | 2850 | 2630 | LTE B7 | 20 | 3100 | 2655 | 19.31 | 19.44 | CA_7A-7A |
| LTE B7 | 20 | QPSK | 1 | 50 | 20850 | 2510 | 2850 | 2630 | LTE B7 | 20 | 3100 | 2655 | 19.32 | 19.44 | CA_7B |
| LTE B7 | 20 | QPSK | 1 | 50 | 20850 | 2510 | 2850 | 2630 | LTE B7 | 20 | 3100 | 2655 | 19.35 | 19.44 | CA_7C |
| LTE B25 | 20 | QPSK | 1 | 0 | 26365 | 1882.5 | 8365 | 1962.5 | LTE B26 | 15 | 8865 | 876.5 | 16.31 | 16.48 | CA_25A-26A |
| LTE B26 | 15 | QPSK | 1 | 0 | 26965 | 841.5 | 8965 | 886.5 | LTE B25 | 20 | 8365 | 1962.5 | 22.30 | 22.35 | CA_25A-26A |
| LTE B25 | 20 | QPSK | 1 | 0 | 26365 | 1882.5 | 8365 | 1962.5 | LTE B41 | 20 | 40620 | 2593 | 16.42 | 16.48 | CA_25A-41A |
| LTE B25 | 20 | QPSK | 1 | 99 | 26140 | 1860 | 8140 | 1940 | LTE B25 | 20 | 8590 | 1985 | 16.25 | 16.30 | CA_25A-25A |
| LTE B26 | 15 | QPSK | 1 | 0 | 26965 | 841.5 | 8965 | 886.5 | LTE B41 | 20 | 40620 | 2593 | 22.30 | 22.35 | CA_26A-41A |

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# LTE Downlink 3CA conducted power table

| Three Component Carrier Maximum Conducted Power | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCC | | | | | | | | | SCC 1 | | | | SCC 2 | | | | Full Power | | |
| PCC Band | PCC Bandwidth [MHz] | Modulation | PCC (UL) RB | PCC (UL) RB Offset | PCC (UL) Channel | PCC (UL) Frequency [MHz] | PCC (DL) Channel | PCC (DL) Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | LTE Tx.Power with DL CA active (dBm) | LTE Tx.Power with DL CA inactive (dBm) | Configurations |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B4 | 20 | 2175 | 2132.5 | LTE B13 | 10 | 5230 | 751 | 23.77 | 23.86 | CA_2A-4A-13A |
| LTE B4 | 20 | QPSK | 1 | 99 | 20175 | 1732.5 | 2175 | 2132.5 | LTE B2 | 20 | 900 | 1960 | LTE B13 | 10 | 5230 | 751 | 23.55 | 23.65 | CA_2A-4A-13A |
| LTE B13 | 10 | QPSK | 1 | 25 | 23230 | 782 | 5230 | 751 | LTE B2 | 20 | 900 | 1960 | LTE B4 | 20 | 2175 | 2132.5 | 23.89 | 23.95 | CA_2A-4A-13A |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B29 | 10 | 9715 | 722.5 | LTE B30 | 10 | 9820 | 2355 | 23.80 | 23.86 | CA_2A-29A-30A |
| LTE B30 | 10 | QPSK | 1 | 49 | 27710 | 2310 | 9820 | 2355 | LTE B2 | 20 | 900 | 1960 | LTE B29 | 10 | 9715 | 722.5 | 23.45 | 23.54 | CA_2A-29A-30A |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B5 | 10 | 2525 | 881.5 | LTE B66 | 20 | 66786 | 2145 | 23.76 | 23.86 | CA_2A-5A-66A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | LTE B2 | 20 | 900 | 1960 | LTE B66 | 20 | 66786 | 2145 | 24.68 | 24.93 | CA_2A-5A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B2 | 20 | 900 | 1960 | LTE B5 | 10 | 2525 | 881.5 | 23.42 | 23.63 | CA_2A-5A-66A |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B13 | 10 | 5230 | 751 | LTE B66 | 20 | 66786 | 2145 | 23.65 | 23.86 | CA_2A-13A-66A |
| LTE B13 | 10 | QPSK | 1 | 25 | 23230 | 782 | 5230 | 751 | LTE B2 | 20 | 900 | 1960 | LTE B66 | 20 | 66786 | 2145 | 23.82 | 23.95 | CA_2A-13A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B2 | 20 | 900 | 1960 | LTE B13 | 10 | 5230 | 751 | 23.61 | 23.63 | CA_2A-13A-66A |
| LTE B2 | 20 | QPSK | 1 | 0 | 18700 | 1860 | 700 | 1940 | LTE B2 | 20 | 898 | 1959.8 | LTE B29 | 10 | 9715 | 722.5 | 23.65 | 23.70 | CA_2C-29A |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B66 | 20 | 66536 | 2120 | LTE B66 | 20 | 66734 | 2139.8 | 23.78 | 23.86 | CA_2A-66B |
| LTE B66 | 10 | QPSK | 1 | 49 | 132622 | 1775 | 67086 | 2175 | LTE B66 | 10 | 66987 | 2165.1 | LTE B2 | 20 | 900 | 1960 | 23.10 | 23.19 | CA_2A-66B |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B66 | 20 | 66536 | 2120 | LTE B66 | 20 | 66734 | 2139.8 | 23.69 | 23.86 | CA_2A-66C |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B66 | 20 | 66734 | 2139.8 | LTE B2 | 20 | 900 | 1960 | 23.55 | 23.63 | CA_2A-66C |
| LTE B2 | 20 | QPSK | 1 | 0 | 18700 | 1860 | 700 | 1940 | LTE B2 | 20 | 1100 | 1980 | LTE B5 | 10 | 2525 | 881.5 | 23.61 | 23.70 | CA_2A-2A-5A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | LTE B2 | 20 | 700 | 1940 | LTE B2 | 20 | 1100 | 1980 | 24.79 | 24.93 | CA_2A-2A-5A |
| LTE B2 | 20 | QPSK | 1 | 0 | 18700 | 1860 | 700 | 1940 | LTE B2 | 20 | 1100 | 1980 | LTE B13 | 10 | 5230 | 751 | 23.60 | 23.70 | CA_2A-2A-13A |
| LTE B13 | 10 | QPSK | 1 | 25 | 23230 | 782 | 5230 | 751 | LTE B2 | 20 | 700 | 1940 | LTE B2 | 20 | 1100 | 1980 | 23.84 | 23.95 | CA_2A-2A-13A |
| LTE B2 | 20 | QPSK | 1 | 0 | 18700 | 1860 | 700 | 1940 | LTE B2 | 20 | 1100 | 1980 | LTE B66 | 20 | 66734 | 2139.8 | 23.60 | 23.70 | CA_2A-2A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B2 | 20 | 700 | 1940 | LTE B2 | 20 | 1100 | 1980 | 23.61 | 23.63 | CA_2A-2A-66A |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B66 | 20 | 66536 | 2120 | LTE B66 | 20 | 67036 | 2170 | 23.78 | 23.86 | CA_2A-66A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B66 | 20 | 66536 | 2120 | LTE B2 | 20 | 900 | 1960 | 23.49 | 23.63 | CA_2A-66A-66A |
| LTE B4 | 20 | QPSK | 1 | 99 | 20175 | 1732.5 | 2175 | 2132.5 | LTE B29 | 10 | 9715 | 722.5 | LTE B30 | 10 | 9820 | 2355 | 23.45 | 23.65 | CA_4A-29A-30A |
| LTE B30 | 10 | QPSK | 1 | 49 | 27710 | 2310 | 9820 | 2355 | LTE B4 | 20 | 2175 | 2132.5 | LTE B29 | 10 | 9715 | 722.5 | 23.42 | 23.54 | CA_4A-29A-30A |
| LTE B4 | 20 | QPSK | 1 | 0 | 20050 | 1720 | 2050 | 2120 | LTE B4 | 20 | 2300 | 2145 | LTE B5 | 10 | 2525 | 881.5 | 23.30 | 23.34 | CA_4A-4A-5A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | LTE B4 | 20 | 2050 | 2120 | LTE B4 | 20 | 2300 | 2145 | 24.78 | 24.93 | CA_4A-4A-5A |
| LTE B4 | 20 | QPSK | 1 | 0 | 20050 | 1720 | 2050 | 2120 | LTE B4 | 20 | 2300 | 2145 | LTE B13 | 10 | 5230 | 751 | 23.22 | 23.34 | CA_4A-4A-13A |
| LTE B13 | 10 | QPSK | 1 | 25 | 23230 | 782 | 5230 | 751 | LTE B4 | 20 | 2050 | 2120 | LTE B4 | 20 | 2300 | 2145 | 23.89 | 23.95 | CA_4A-4A-13A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | LTE B66 | 20 | 66536 | 2120 | LTE B66 | 20 | 67036 | 2170 | 24.83 | 24.93 | CA_5A-66A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B66 | 20 | 66536 | 2120 | LTE B5 | 10 | 2525 | 881.5 | 23.50 | 23.63 | CA_5A-66A-66A |
| LTE B13 | 10 | QPSK | 1 | 25 | 23230 | 782 | 5230 | 751 | LTE B66 | 20 | 66536 | 2120 | LTE B66 | 20 | 67036 | 2170 | 23.87 | 23.95 | CA_13A-66A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B66 | 20 | 66536 | 2120 | LTE B13 | 10 | 5230 | 751 | 23.54 | 23.63 | CA_13A-66A-66A |
| LTE B41 | 20 | QPSK | 1 | 0 | 41005 | 2636.5 | 41005 | 2636.5 | LTE B41 | 20 | 39750 | 2506 | LTE B41 | 20 | 39948 | 2525.8 | 24.78 | 24.91 | CA_41A-41C |
| LTE B41 | 20 | QPSK | 1 | 0 | 39750 | 2506 | 39750 | 2506 | LTE B41 | 20 | 39948 | 2525.8 | LTE B41 | 20 | 41490 | 2680 | 24.01 | 24.09 | CA_41A-41C |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B66 | 15 | 67213 | 2187.7 | LTE B66 | 5 | 67306 | 2197 | 23.55 | 23.63 | CA_66A-66B |
| LTE B66 | 20 | QPSK | 1 | 99 | 132072 | 1720 | 66536 | 2120 | LTE B66 | 20 | 67038 | 2170.2 | LTE B66 | 20 | 67236 | 2190 | 23.11 | 23.18 | CA_66A-66C |
| LTE B66 | 20 | QPSK | 1 | 99 | 132072 | 1720 | 66536 | 2120 | LTE B66 | 20 | 66734 | 2139.8 | LTE B66 | 20 | 66932 | 2159.6 | 23.14 | 23.18 | CA_66D |

| Three Component Carrier Maximum Conducted Power | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCC | | | | | | | | | SCC 1 | | | | SCC 2 | | | | Reduced Power | | |
| PCC Band | PCC Bandwidth [MHz] | Modulation | PCC (UL) RB | PCC (UL) RB Offset | PCC (UL) Channel | PCC (UL) Frequency [MHz] | PCC (DL) Channel | PCC (DL) Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | LTE Tx.Power with DL CA active (dBm) | LTE Tx.Power with DL CA inactive (dBm) | Configurations |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B4 | 20 | 2175 | 2132.5 | LTE B13 | 10 | 5230 | 751 | 16.32 | 16.41 | CA_2A-4A-13A |
| LTE B4 | 20 | QPSK | 1 | 50 | 20050 | 1720 | 2050 | 2120 | LTE B2 | 20 | 900 | 1960 | LTE B13 | 10 | 5230 | 751 | 18.11 | 18.27 | CA_2A-4A-13A |
| LTE B13 | 10 | QPSK | 1 | 25 | 23230 | 782 | 5230 | 751 | LTE B2 | 20 | 900 | 1960 | LTE B4 | 20 | 2175 | 2132.5 | 20.87 | 20.98 | CA_2A-4A-13A |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B29 | 10 | 9715 | 722.5 | LTE B30 | 10 | 9820 | 2355 | 16.32 | 16.41 | CA_2A-29A-30A |
| LTE B30 | 10 | QPSK | 1 | 49 | 27710 | 2310 | 9820 | 2355 | LTE B2 | 20 | 900 | 1960 | LTE B29 | 10 | 9715 | 722.5 | 16.37 | 16.48 | CA_2A-29A-30A |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B5 | 10 | 2525 | 881.5 | LTE B66 | 20 | 66786 | 2145 | 16.40 | 16.41 | CA_2A-5A-66A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | LTE B2 | 20 | 900 | 1960 | LTE B66 | 20 | 66786 | 2145 | 22.39 | 22.43 | CA_2A-5A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B2 | 20 | 900 | 1960 | LTE B5 | 10 | 2525 | 881.5 | 18.25 | 18.30 | CA_2A-5A-66A |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B13 | 10 | 5230 | 751 | LTE B66 | 20 | 66786 | 2145 | 16.40 | 16.41 | CA_2A-13A-66A |
| LTE B13 | 10 | QPSK | 1 | 25 | 23230 | 782 | 5230 | 751 | LTE B2 | 20 | 900 | 1960 | LTE B66 | 20 | 66786 | 2145 | 20.88 | 20.98 | CA_2A-13A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B2 | 20 | 900 | 1960 | LTE B13 | 10 | 5230 | 751 | 18.25 | 18.30 | CA_2A-13A-66A |
| LTE B2 | 20 | QPSK | 1 | 0 | 18700 | 1860 | 700 | 1940 | LTE B2 | 20 | 898 | 1959.8 | LTE B29 | 10 | 9715 | 722.5 | 16.27 | 16.29 | CA_2C-29A |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B66 | 20 | 66536 | 2120 | LTE B66 | 20 | 66734 | 2139.8 | 16.40 | 16.41 | CA_2A-66B |
| LTE B66 | 10 | QPSK | 1 | 49 | 132622 | 1775 | 67086 | 2175 | LTE B66 | 10 | 66987 | 2165.1 | LTE B2 | 20 | 900 | 1960 | 18.11 | 18.16 | CA_2A-66B |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B66 | 20 | 66536 | 2120 | LTE B66 | 20 | 66734 | 2139.8 | 16.24 | 16.41 | CA_2A-66C |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B66 | 20 | 66734 | 2139.8 | LTE B2 | 20 | 900 | 1960 | 18.23 | 18.30 | CA_2A-66C |
| LTE B2 | 20 | QPSK | 1 | 0 | 18700 | 1860 | 700 | 1940 | LTE B2 | 20 | 1100 | 1980 | LTE B5 | 10 | 2525 | 881.5 | 16.21 | 16.29 | CA_2A-2A-5A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | LTE B2 | 20 | 700 | 1940 | LTE B2 | 20 | 1100 | 1980 | 22.23 | 22.43 | CA_2A-2A-5A |
| LTE B2 | 20 | QPSK | 1 | 0 | 18700 | 1860 | 700 | 1940 | LTE B2 | 20 | 1100 | 1980 | LTE B13 | 10 | 5230 | 751 | 16.19 | 16.29 | CA_2A-2A-13A |
| LTE B13 | 10 | QPSK | 1 | 25 | 23230 | 782 | 5230 | 751 | LTE B2 | 20 | 700 | 1940 | LTE B2 | 20 | 1100 | 1980 | 20.92 | 20.98 | CA_2A-2A-13A |
| LTE B2 | 20 | QPSK | 1 | 0 | 18700 | 1860 | 700 | 1940 | LTE B2 | 20 | 1100 | 1980 | LTE B66 | 20 | 66734 | 2139.8 | 16.21 | 16.29 | CA_2A-2A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B2 | 20 | 700 | 1940 | LTE B2 | 20 | 1100 | 1980 | 18.20 | 18.30 | CA_2A-2A-66A |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B66 | 20 | 66536 | 2120 | LTE B66 | 20 | 67036 | 2170 | 16.20 | 16.41 | CA_2A-66A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B66 | 20 | 66536 | 2120 | LTE B2 | 20 | 900 | 1960 | 18.25 | 18.30 | CA_2A-66A-66A |
| LTE B4 | 20 | QPSK | 1 | 50 | 20050 | 1720 | 2050 | 2120 | LTE B29 | 10 | 9715 | 722.5 | LTE B30 | 10 | 9820 | 2355 | 18.21 | 18.27 | CA_4A-29A-30A |
| LTE B30 | 10 | QPSK | 1 | 49 | 27710 | 2310 | 9820 | 2355 | LTE B4 | 20 | 2175 | 2132.5 | LTE B29 | 10 | 9715 | 722.5 | 16.40 | 16.48 | CA_4A-29A-30A |
| LTE B4 | 20 | QPSK | 1 | 0 | 20050 | 1720 | 2050 | 2120 | LTE B4 | 20 | 2300 | 2145 | LTE B5 | 10 | 2525 | 881.5 | 18.10 | 18.18 | CA_4A-4A-5A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | LTE B4 | 20 | 2050 | 2120 | LTE B4 | 20 | 2300 | 2145 | 22.40 | 22.43 | CA_4A-4A-5A |
| LTE B4 | 20 | QPSK | 1 | 0 | 20050 | 1720 | 2050 | 2120 | LTE B4 | 20 | 2300 | 2145 | LTE B13 | 10 | 5230 | 751 | 18.06 | 18.18 | CA_4A-4A-13A |
| LTE B13 | 10 | QPSK | 1 | 25 | 23230 | 782 | 5230 | 751 | LTE B4 | 20 | 2050 | 2120 | LTE B4 | 20 | 2300 | 2145 | 20.77 | 20.98 | CA_4A-4A-13A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | LTE B66 | 20 | 66536 | 2120 | LTE B66 | 20 | 67036 | 2170 | 22.33 | 22.43 | CA_5A-66A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B66 | 20 | 66536 | 2120 | LTE B5 | 10 | 2525 | 881.5 | 18.11 | 18.30 | CA_5A-66A-66A |
| LTE B13 | 10 | QPSK | 1 | 25 | 23230 | 782 | 5230 | 751 | LTE B66 | 20 | 66536 | 2120 | LTE B66 | 20 | 67036 | 2170 | 20.87 | 20.98 | CA_13A-66A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B66 | 20 | 66536 | 2120 | LTE B13 | 10 | 5230 | 751 | 18.29 | 18.30 | CA_13A-66A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B66 | 15 | 67213 | 2187.7 | LTE B66 | 5 | 67306 | 2197 | 18.22 | 18.30 | CA_66A-66B |
| LTE B66 | 20 | QPSK | 1 | 99 | 132072 | 1720 | 66536 | 2120 | LTE B66 | 20 | 67038 | 2170.2 | LTE B66 | 20 | 67236 | 2190 | 18.05 | 18.17 | CA_66A-66C |
| LTE B66 | 20 | QPSK | 1 | 99 | 132072 | 1720 | 66536 | 2120 | LTE B66 | 20 | 66734 | 2139.8 | LTE B66 | 20 | 66932 | 2159.6 | 18.09 | 18.17 | CA_66D |

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## LTE Downlink 4CA conducted power table

| Four Component Carrier Maximum Conducted Power | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PCC | | | | | | | | | Configurations |
| PCC Band | PCC Bandwidth [MHz] | Modulation | PCC (UL) RB | PCC (UL) RB Offset | PCC (UL) Channel | PCC (UL) Frequency [MHz] | PCC (DL) Channel | PCC (DL) Frequency [MHz] | |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | CA_2A-4A-5A-30A |
| LTE B4 | 20 | QPSK | 1 | 99 | 20175 | 1732.5 | 2175 | 2132.5 | CA_2A-4A-5A-30A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | CA_2A-4A-5A-30A |
| LTE B30 | 10 | QPSK | 1 | 49 | 27710 | 2310 | 9820 | 2355 | CA_2A-4A-5A-30A |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | CA_2A-4A-12A-30A |
| LTE B4 | 20 | QPSK | 1 | 99 | 20175 | 1732.5 | 2175 | 2132.5 | CA_2A-4A-12A-30A |
| LTE B12 | 10 | QPSK | 1 | 25 | 23095 | 707.5 | 5095 | 737.5 | CA_2A-4A-12A-30A |
| LTE B30 | 10 | QPSK | 1 | 49 | 27710 | 2310 | 9820 | 2355 | CA_2A-4A-12A-30A |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | CA_2A-14A-30A-66A |
| LTE B14 | 10 | QPSK | 1 | 0 | 23330 | 793 | 5330 | 763 | CA_2A-14A-30A-66A |
| LTE B30 | 10 | QPSK | 1 | 49 | 27710 | 2310 | 9820 | 2355 | CA_2A-14A-30A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | CA_2A-14A-30A-66A |
| LTE B2 | 20 | QPSK | 1 | 0 | 18700 | 1860 | 700 | 1940 | CA_2A-2A-12A-30A |
| LTE B12 | 10 | QPSK | 1 | 25 | 23095 | 707.5 | 5095 | 737.5 | CA_2A-2A-12A-30A |
| LTE B30 | 10 | QPSK | 1 | 49 | 27710 | 2310 | 9820 | 2355 | CA_2A-2A-12A-30A |
| LTE B5 | 10 | QPSK | 1 | 49 | 20450 | 829 | 2450 | 874 | CA_5A-5A-66B |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | CA_5A-5A-66B |
| LTE B5 | 10 | QPSK | 1 | 49 | 20450 | 829 | 2450 | 874 | CA_5A-5A-66C |
| LTE B66 | 20 | QPSK | 1 | 99 | 132072 | 1720 | 66536 | 2120 | CA_5A-5A-66C |
| LTE B5 | 10 | QPSK | 1 | 49 | 20450 | 829 | 2450 | 874 | CA 5B-66A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | CA 5B-66A-66A |
| LTE B25 | 20 | QPSK | 1 | 50 | 26140 | 1860 | 8140 | 1940 | CA 25A-41D |
| LTE B41 | 20 | QPSK | 1 | 0 | 39750 | 2506 | 39750 | 2506 | CA 25A-41D |
| LTE B41 | 20 | QPSK | 1 | 0 | 39750 | 2506 | 39750 | 2506 | CA 41A-41D |
| LTE B41 | 20 | QPSK | 1 | 0 | 39750 | 2506 | 39750 | 2506 | CA 41C-41C |

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| Four Component Carrier Maximum Conducted Power | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCC 1 | | | | SCC 2 | | | | SCC 3 | | | | Full Power | | Configurations |
| SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | LTE Tx.Power with DL CA active (dBm) | LTE Tx.Power with DL CA inactive (dBm) | |
| LTE B4 | 20 | 2175 | 2132.5 | LTE B5 | 10 | 2525 | 881.5 | LTE B30 | 10 | 9820 | 2355 | 23.72 | 23.86 | CA_2A-4A-5A-30A |
| LTE B2 | 20 | 900 | 1960 | LTE B5 | 10 | 2525 | 881.5 | LTE B30 | 10 | 9820 | 2355 | 23.55 | 23.65 | CA_2A-4A-5A-30A |
| LTE B2 | 20 | 900 | 1960 | LTE B4 | 20 | 2175 | 2132.5 | LTE B30 | 10 | 9820 | 2355 | 24.81 | 24.93 | CA_2A-4A-5A-30A |
| LTE B2 | 20 | 900 | 1960 | LTE B4 | 20 | 2175 | 2132.5 | LTE B5 | 10 | 2525 | 881.5 | 23.45 | 23.54 | CA_2A-4A-5A-30A |
| LTE B4 | 20 | 2175 | 2132.5 | LTE B12 | 10 | 5095 | 737.5 | LTE B30 | 10 | 9820 | 2355 | 23.78 | 23.86 | CA_2A-4A-12A-30A |
| LTE B2 | 20 | 900 | 1960 | LTE B12 | 10 | 5095 | 737.5 | LTE B30 | 10 | 9820 | 2355 | 23.56 | 23.65 | CA_2A-4A-12A-30A |
| LTE B2 | 20 | 900 | 1960 | LTE B4 | 20 | 2175 | 2132.5 | LTE B30 | 10 | 9820 | 2355 | 23.78 | 23.98 | CA_2A-4A-12A-30A |
| LTE B2 | 20 | 900 | 1960 | LTE B4 | 20 | 2175 | 2132.5 | LTE B12 | 10 | 5095 | 737.5 | 23.45 | 23.54 | CA_2A-4A-12A-30A |
| LTE B14 | 10 | 5330 | 763 | LTE B30 | 10 | 9820 | 2355 | LTE B66 | 20 | 66734 | 2139.8 | 23.77 | 23.86 | CA_2A-14A-30A-66A |
| LTE B2 | 20 | 900 | 1960 | LTE B30 | 10 | 9820 | 2355 | LTE B66 | 20 | 66734 | 2139.8 | 23.82 | 23.97 | CA_2A-14A-30A-66A |
| LTE B2 | 20 | 900 | 1960 | LTE B14 | 10 | 5330 | 763 | LTE B66 | 20 | 66734 | 2139.8 | 23.44 | 23.54 | CA_2A-14A-30A-66A |
| LTE B2 | 20 | 900 | 1960 | LTE B14 | 10 | 5330 | 763 | LTE B30 | 10 | 9820 | 2355 | 23.55 | 23.63 | CA_2A-14A-30A-66A |
| LTE B2 | 20 | 1100 | 1980 | LTE B12 | 10 | 5095 | 737.5 | LTE B30 | 10 | 9820 | 2355 | 23.56 | 23.70 | CA_2A-2A-12A-30A |
| LTE B2 | 20 | 700 | 1940 | LTE B2 | 20 | 1100 | 1980 | LTE B30 | 10 | 9820 | 2355 | 23.77 | 23.98 | CA_2A-2A-12A-30A |
| LTE B2 | 20 | 700 | 1940 | LTE B2 | 20 | 1100 | 1980 | LTE B12 | 10 | 5095 | 737.5 | 23.45 | 23.54 | CA_2A-2A-12A-30A |
| LTE B5 | 10 | 2600 | 889 | LTE B66 | 15 | 67213 | 2187.7 | LTE B66 | 5 | 67306 | 2197 | 24.62 | 24.69 | CA_5A-5A-66B |
| LTE B66 | 10 | 66987 | 2165.1 | LTE B5 | 10 | 2450 | 874 | LTE B5 | 10 | 2600 | 889 | 23.59 | 23.63 | CA_5A-5A-66B |
| LTE B5 | 10 | 2600 | 889 | LTE B66 | 20 | 66536 | 2120 | LTE B66 | 20 | 66734 | 2139.8 | 24.62 | 24.69 | CA_5A-5A-66C |
| LTE B66 | 20 | 66734 | 2139.8 | LTE B5 | 10 | 2450 | 874 | LTE B5 | 10 | 2600 | 889 | 23.12 | 23.18 | CA_5A-5A-66C |
| LTE B5 | 10 | 2549 | 883.9 | LTE B66 | 20 | 66536 | 2120 | LTE B66 | 20 | 67036 | 2170 | 24.54 | 24.69 | CA 5B-66A-66A |
| LTE B66 | 20 | 66536 | 2120 | LTE B5 | 10 | 2450 | 874 | LTE B5 | 10 | 2549 | 883.9 | 23.60 | 23.63 | CA 5B-66A-66A |
| LTE B41 | 20 | 39750 | 2506 | LTE B41 | 20 | 39948 | 2525.8 | LTE B41 | 20 | 40146 | 2545.6 | 23.82 | 23.97 | CA 25A-41D |
| LTE B41 | 20 | 39948 | 2525.8 | LTE B41 | 20 | 40146 | 2545.6 | LTE B25 | 20 | 8365 | 1962.5 | 24.00 | 24.09 | CA 25A-41D |
| LTE B41 | 20 | 41094 | 2640.4 | LTE B41 | 20 | 41292 | 2660.2 | LTE B41 | 20 | 41490 | 2680 | 24.02 | 24.09 | CA 41A-41D |
| LTE B41 | 20 | 39948 | 2525.8 | LTE B41 | 20 | 41292 | 2660.2 | LTE B41 | 20 | 41490 | 2680 | 23.96 | 24.09 | CA 41C-41C |

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| Four Component Carrier Maximum Conducted Power | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PCC | | | | | | | | | Configurations |
| PCC Band | PCC Bandwidth [MHz] | Modulation | PCC (UL) RB | PCC (UL) RB Offset | PCC (UL) Channel | PCC (UL) Frequency [MHz] | PCC (DL) Channel | PCC (DL) Frequency [MHz] | |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | CA_2A-4A-5A-30A |
| LTE B4 | 20 | QPSK | 1 | 50 | 20050 | 1720 | 2050 | 2120 | CA_2A-4A-5A-30A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | CA_2A-4A-5A-30A |
| LTE B30 | 10 | QPSK | 1 | 49 | 27710 | 2310 | 9820 | 2355 | CA_2A-4A-5A-30A |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | CA_2A-4A-12A-30A |
| LTE B4 | 20 | QPSK | 1 | 50 | 20050 | 1720 | 2050 | 2120 | CA_2A-4A-12A-30A |
| LTE B12 | 10 | QPSK | 1 | 25 | 23095 | 707.5 | 5095 | 737.5 | CA_2A-4A-12A-30A |
| LTE B30 | 10 | QPSK | 1 | 49 | 27710 | 2310 | 9820 | 2355 | CA_2A-4A-12A-30A |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | CA_2A-14A-30A-66A |
| LTE B14 | 10 | QPSK | 1 | 0 | 23330 | 793 | 5330 | 763 | CA_2A-14A-30A-66A |
| LTE B30 | 10 | QPSK | 1 | 49 | 27710 | 2310 | 9820 | 2355 | CA_2A-14A-30A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | CA_2A-14A-30A-66A |
| LTE B2 | 20 | QPSK | 1 | 0 | 18700 | 1860 | 700 | 1940 | CA_2A-2A-12A-30A |
| LTE B12 | 10 | QPSK | 1 | 25 | 23095 | 707.5 | 5095 | 737.5 | CA_2A-2A-12A-30A |
| LTE B30 | 10 | QPSK | 1 | 49 | 27710 | 2310 | 9820 | 2355 | CA_2A-2A-12A-30A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20450 | 829 | 2450 | 874 | CA_5A-5A-66B |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | CA_5A-5A-66B |
| LTE B5 | 10 | QPSK | 1 | 49 | 20450 | 829 | 2450 | 874 | CA_5A-5A-66C |
| LTE B66 | 20 | QPSK | 1 | 99 | 132072 | 1720 | 66536 | 2120 | CA_5A-5A-66C |
| LTE B5 | 10 | QPSK | 1 | 49 | 20450 | 829 | 2450 | 874 | CA 5B-66A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | CA 5B-66A-66A |
| LTE B25 | 20 | QPSK | 1 | 0 | 26365 | 1882.5 | 8140 | 1940 | CA 25A-41D |

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| Four Component Carrier Maximum Conducted Power | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCC 1 | | | | SCC 2 | | | | SCC 3 | | | | Reduced Power | | Configurations |
| SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | LTE Tx.Power with DL CA active | LTE Tx.Power with DL CA inactive | |
| LTE B4 | 20 | 2175 | 2132.5 | LTE B5 | 10 | 2525 | 881.5 | LTE B30 | 10 | 9820 | 2355 | 16.40 | 16.41 | CA_2A-4A-5A-30A |
| LTE B2 | 20 | 900 | 1960 | LTE B5 | 10 | 2525 | 881.5 | LTE B30 | 10 | 9820 | 2355 | 18.10 | 18.27 | CA_2A-4A-5A-30A |
| LTE B2 | 20 | 900 | 1960 | LTE B4 | 20 | 2175 | 2132.5 | LTE B30 | 10 | 9820 | 2355 | 22.40 | 22.43 | CA_2A-4A-5A-30A |
| LTE B2 | 20 | 900 | 1960 | LTE B4 | 20 | 2175 | 2132.5 | LTE B5 | 10 | 2525 | 881.5 | 16.30 | 16.48 | CA_2A-4A-5A-30A |
| LTE B4 | 20 | 2175 | 2132.5 | LTE B12 | 10 | 5095 | 737.5 | LTE B30 | 10 | 9820 | 2355 | 16.32 | 16.41 | CA_2A-4A-12A-30A |
| LTE B2 | 20 | 900 | 1960 | LTE B12 | 10 | 5095 | 737.5 | LTE B30 | 10 | 9820 | 2355 | 18.18 | 18.27 | CA_2A-4A-12A-30A |
| LTE B2 | 20 | 900 | 1960 | LTE B4 | 20 | 2175 | 2132.5 | LTE B30 | 10 | 9820 | 2355 | 20.40 | 20.46 | CA_2A-4A-12A-30A |
| LTE B2 | 20 | 900 | 1960 | LTE B4 | 20 | 2175 | 2132.5 | LTE B12 | 10 | 5095 | 737.5 | 16.34 | 16.48 | CA_2A-4A-12A-30A |
| LTE B14 | 10 | 5330 | 763 | LTE B30 | 10 | 9820 | 2355 | LTE B66 | 20 | 66734 | 2139.8 | 16.25 | 16.41 | CA_2A-14A-30A-66A |
| LTE B2 | 20 | 900 | 1960 | LTE B30 | 10 | 9820 | 2355 | LTE B66 | 20 | 66734 | 2139.8 | 20.80 | 20.92 | CA_2A-14A-30A-66A |
| LTE B2 | 20 | 900 | 1960 | LTE B14 | 10 | 5330 | 763 | LTE B66 | 20 | 66734 | 2139.8 | 16.40 | 16.48 | CA_2A-14A-30A-66A |
| LTE B2 | 20 | 900 | 1960 | LTE B14 | 10 | 5330 | 763 | LTE B30 | 10 | 9820 | 2355 | 18.25 | 18.30 | CA_2A-14A-30A-66A |
| LTE B2 | 20 | 1100 | 1980 | LTE B12 | 10 | 5095 | 737.5 | LTE B30 | 10 | 9820 | 2355 | 16.21 | 16.29 | CA_2A-2A-12A-30A |
| LTE B2 | 20 | 700 | 1940 | LTE B2 | 20 | 1100 | 1980 | LTE B30 | 10 | 9820 | 2355 | 20.32 | 20.46 | CA_2A-2A-12A-30A |
| LTE B2 | 20 | 700 | 1940 | LTE B2 | 20 | 1100 | 1980 | LTE B12 | 10 | 5095 | 737.5 | 16.38 | 16.48 | CA_2A-2A-12A-30A |
| LTE B5 | 10 | 2600 | 889 | LTE B66 | 15 | 67213 | 2187.7 | LTE B66 | 5 | 67306 | 2197 | 22.10 | 22.13 | CA_5A-5A-66B |
| LTE B66 | 10 | 66987 | 2165.1 | LTE B5 | 10 | 2450 | 874 | LTE B5 | 10 | 2600 | 889 | 18.20 | 18.30 | CA_5A-5A-66B |
| LTE B5 | 10 | 2600 | 889 | LTE B66 | 20 | 66536 | 2120 | LTE B66 | 20 | 66734 | 2139.8 | 22.00 | 22.13 | CA_5A-5A-66C |
| LTE B66 | 20 | 66734 | 2139.8 | LTE B5 | 10 | 2450 | 874 | LTE B5 | 10 | 2600 | 889 | 18.04 | 18.17 | CA_5A-5A-66C |
| LTE B5 | 10 | 2549 | 883.9 | LTE B66 | 20 | 66536 | 2120 | LTE B66 | 20 | 67036 | 2170 | 22.00 | 22.13 | CA 5B-66A-66A |
| LTE B66 | 20 | 66536 | 2120 | LTE B5 | 10 | 2450 | 874 | LTE B5 | 10 | 2549 | 883.9 | 18.29 | 18.30 | CA 5B-66A-66A |
| LTE B41 | 20 | 39750 | 2506 | LTE B41 | 20 | 39948 | 2525.8 | LTE B41 | 20 | 40146 | 2545.6 | 16.34 | 16.48 | CA 25A-41D |

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# LTE Downlink 5CA conducted power table

| Five Component Carrier Maximum Conducted Power | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCC | | | | | | | | | SCC 1 | | | | Full Power | | Configurations |
| PCC Band | PCC Bandwidth [MHz] | Modulation | PCC (UL) RB | PCC (UL) RB Offset | PCC (UL) Channel | PCC (UL) Frequency [MHz] | PCC (DL) Channel | PCC (DL) Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | LTE Tx.Power with DL CA active (dBm) | LTE Tx.Power with DL CA inactive (dBm) | |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B5 | 10 | 2450 | 874 | 23.77 | 23.86 | CA 2A-5B-30A-66A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | LTE B5 | 10 | 2549 | 883.9 | 24.68 | 24.93 | CA 2A-5B-30A-66A |
| LTE B30 | 10 | QPSK | 1 | 49 | 27710 | 2310 | 9820 | 2355 | LTE B2 | 20 | 900 | 1960 | 23.50 | 23.54 | CA 2A-5B-30A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B2 | 20 | 900 | 1960 | 23.55 | 23.63 | CA 2A-5B-30A-66A |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B5 | 10 | 2450 | 874 | 23.69 | 23.86 | CA 2A-5B-66A-66A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | LTE B5 | 10 | 2450 | 874 | 24.90 | 24.93 | CA 2A-5B-66A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B66 | 20 | 66536 | 2120 | 23.60 | 23.63 | CA 2A-5B-66A-66A |
| LTE B41 | 20 | QPSK | 1 | 0 | 39750 | 2506 | 39750 | 2506 | LTE B41 | 20 | 39948 | 2525.8 | 24.05 | 24.09 | CA 41C-41D |
| LTE B41 | 20 | QPSK | 1 | 0 | 39750 | 2506 | 39750 | 2506 | LTE B41 | 20 | 39948 | 2525.8 | 24.01 | 24.09 | CA 41C-41D |

| Five Component Carrier Maximum Conducted Power | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCC 2 | | | | SCC 4 | | | | SCC 3 | | | | Full Power | | Configurations |
| SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | LTE Tx.Power with DL CA active (dBm) | LTE Tx.Power with DL CA inactive (dBm) | |
| LTE B5 | 10 | 2549 | 883.9 | LTE B30 | 10 | 9820 | 2355 | LTE B66 | 20 | 66734 | 2139.8 | 23.77 | 23.86 | CA 2A-5B-30A-66A |
| LTE B2 | 20 | 900 | 1960 | LTE B30 | 10 | 9820 | 2355 | LTE B66 | 20 | 66734 | 2139.8 | 24.68 | 24.93 | CA 2A-5B-30A-66A |
| LTE B5 | 10 | 2450 | 874 | LTE B5 | 10 | 2549 | 883.9 | LTE B66 | 20 | 66734 | 2139.8 | 23.50 | 23.54 | CA 2A-5B-30A-66A |
| LTE B5 | 10 | 2450 | 874 | LTE B5 | 10 | 2549 | 883.9 | LTE B30 | 10 | 9820 | 2355 | 23.55 | 23.63 | CA 2A-5B-30A-66A |
| LTE B5 | 10 | 2549 | 883.9 | LTE B66 | 20 | 67036 | 2170 | LTE B66 | 20 | 66536 | 2120 | 23.69 | 23.86 | CA 2A-5B-66A-66A |
| LTE B66 | 20 | 67036 | 2170 | LTE B66 | 20 | 66536 | 2120 | LTE B2 | 20 | 900 | 1960 | 24.90 | 24.93 | CA 2A-5B-66A-66A |
| LTE B5 | 10 | 2450 | 874 | LTE B5 | 10 | 2549 | 883.9 | LTE B2 | 20 | 900 | 1960 | 23.60 | 23.63 | CA 2A-5B-66A-66A |
| LTE B41 | 20 | 41094 | 2640.4 | LTE B41 | 20 | 41292 | 2660.2 | LTE B41 | 20 | 41490 | 2680 | 24.05 | 24.09 | CA 41C-41D |
| LTE B41 | 20 | 40146 | 2545.6 | LTE B41 | 20 | 39750 | 2506 | LTE B41 | 20 | 39948 | 2525.8 | 24.01 | 24.09 | CA 41C-41D |

| Five Component Carrier Maximum Conducted Power | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCC | | | | | | | | | SCC 1 | | | | Reduced Power | | Configurations |
| PCC Band | PCC Bandwidth [MHz] | Modulation | PCC (UL) RB | PCC (UL) RB Offset | PCC (UL) Channel | PCC (UL) Frequency [MHz] | PCC (DL) Channel | PCC (DL) Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | LTE Tx.Power with DL CA active | LTE Tx.Power with DL CA inactive | |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B5 | 10 | 2450 | 874 | 16.32 | 16.41 | CA 2A-5B-30A-66A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | LTE B5 | 10 | 2549 | 883.9 | 22.23 | 22.43 | CA 2A-5B-30A-66A |
| LTE B30 | 10 | QPSK | 1 | 49 | 27710 | 2310 | 9820 | 2355 | LTE B2 | 20 | 900 | 1960 | 16.41 | 16.48 | CA 2A-5B-30A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B2 | 20 | 900 | 1960 | 18.25 | 18.30 | CA 2A-5B-30A-66A |
| LTE B2 | 20 | QPSK | 1 | 50 | 19100 | 1900 | 1100 | 1980 | LTE B5 | 10 | 2450 | 874 | 16.35 | 16.41 | CA 2A-5B-66A-66A |
| LTE B5 | 10 | QPSK | 1 | 25 | 20525 | 836.5 | 2525 | 881.5 | LTE B5 | 10 | 2450 | 874 | 22.25 | 22.43 | CA 2A-5B-66A-66A |
| LTE B66 | 20 | QPSK | 1 | 0 | 132572 | 1770 | 67036 | 2170 | LTE B66 | 20 | 66536 | 2120 | 18.14 | 18.30 | CA 2A-5B-66A-66A |

| Five Component Carrier Maximum Conducted Power | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCC 2 | | | | SCC 4 | | | | SCC 3 | | | | Reduced Power | | Configurations |
| SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC (DL) Channel | SCC (DL) Frequency [MHz] | LTE Tx.Power with DL CA active | LTE Tx.Power with DL CA inactive | |
| LTE B5 | 10 | 2549 | 883.9 | LTE B30 | 10 | 9820 | 2355 | LTE B66 | 20 | 66734 | 2139.8 | 16.32 | 16.41 | CA 2A-5B-30A-66A |
| LTE B2 | 20 | 900 | 1960 | LTE B30 | 10 | 9820 | 2355 | LTE B66 | 20 | 66734 | 2139.8 | 22.23 | 22.43 | CA 2A-5B-30A-66A |
| LTE B5 | 10 | 2450 | 874 | LTE B5 | 10 | 2549 | 883.9 | LTE B66 | 20 | 66734 | 2139.8 | 16.41 | 16.48 | CA 2A-5B-30A-66A |
| LTE B5 | 10 | 2450 | 874 | LTE B5 | 10 | 2549 | 883.9 | LTE B30 | 10 | 9820 | 2355 | 18.25 | 18.30 | CA 2A-5B-30A-66A |
| LTE B5 | 10 | 2549 | 883.9 | LTE B66 | 20 | 67036 | 2170 | LTE B66 | 20 | 66536 | 2120 | 16.35 | 16.41 | CA 2A-5B-66A-66A |
| LTE B66 | 20 | 67036 | 2170 | LTE B66 | 20 | 66536 | 2120 | LTE B2 | 20 | 900 | 1960 | 22.25 | 22.43 | CA 2A-5B-66A-66A |
| LTE B5 | 10 | 2450 | 874 | LTE B5 | 10 | 2549 | 883.9 | LTE B2 | 20 | 900 | 1960 | 18.14 | 18.30 | CA 2A-5B-66A-66A |

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## LTE CA information

### A)

The device supports downlink LTE Carrier Aggregation (CA) only. It supports a maximum of 5 carriers in the downlink. Other Release 10 features or higher features are not supported, including Uplink Carrier Aggregation, Enhanced SC-FDMA and Uplink MIMO or other antenna diversity configurations etc. All uplink communications are identical to the Release 8 Specifications.

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.521-1 V14.3.0. The conducted power measurement results of downlink LTE CA are provided as above per 3GPP TS 36.521-1 V14.3.0. According to KDB 941225 D05A and RF exposure procedures in TCB workshop April 2018, the downlink LTE CA SAR test is not required.

### B)

CA combination table

| Index | 2CC | Restriction | Completely Covered by Measurement | Index | 3CC | Restriction | Completely Covered by Measurement | Index | 4CC | Restriction | Completely Covered by Measurement | Index | 5CC | Restriction | Completely Covered by Measurement |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2CC #1 | CA 2A-4A | | 3CC #1 | 3CC #1 | CA 2A-4A-5A | | 4CC #1 | 4CC #1 | CA 2A-4A-5A-30A | | No | 5CC #1 | CA 2A-5B-30A-66A | | No |
| 2CC #2 | CA 2A-5A | | 3CC #3 | 3CC #2 | CA 2A-4A-13A | | No | 4CC #2 | CA 2A-4A-12A-30A | | No | 5CC #2 | CA 2A-5B-66A-66A | | No |
| 2CC #3 | CA 2A-12A | | 3CC #4 | 3CC #3 | CA 2A-5A-30A | | 4CC #1 | 4CC #3 | CA 2A-14A-30A-66A | | No | 5CC #3 | CA 41C-41D | | No |
| 2CC #4 | CA 2A-13A | | 3CC #7 | 3CC #4 | CA 2A-12A-30A | | 4CC #2 | 4CC #4 | CA 2A-2A-12A-30A | | No | | | | |
| 2CC #5 | CA 2A-14A | | 3CC #5 | 3CC #5 | CA 2A-14A-30A | | 4CC #3 | 4CC #5 | CA 2A-5B-30A | | 5CC #1 | | | | |
| 2CC #6 | CA 2A-17A | | No | 3CC #6 | CA 2A-14A-66A | | 4CC #3 | 4CC #6 | CA 2A-5B-66A | | 5CC #1 | | | | |
| 2CC #7 | CA 2A-29A | B29 SCC only | 3CC #7 | 3CC #7 | CA 2A-29A-30A | B29 SCC only | No | 4CC #7 | CA 5B-30A-66A | | 5CC #1 | | | | |
| 2CC #8 | CA 2A-30A | | 3CC #7 | 3CC #8 | CA 2A-5A-66A | | No | 4CC #8 | CA 5A-5A-66B | | No | | | | |
| 2CC #9 | CA 2A-66A | | 3CC #6 | 3CC #9 | CA 2A-13A-66A | | No | 4CC #9 | CA 5A-5A-66C | | No | | | | |
| 2CC #10 | CA 2C | | 3CC #11 | 3CC #10 | CA 2A-30A-66A | | 5CC #1 | 4CC #10 | CA 5B-66A-66A | | 5CC #2 | | | | |
| 2CC #11 | CA 2A-2A | | 3CC #15 | 3CC #11 | CA 2C-29A | B29 SCC only | No | 4CC #11 | CA 25A-41D | | No | | | | |
| 2CC #12 | CA 4A-5A | | 3CC #21 | 3CC #12 | CA 2A-5B | | 4CC #5 | 4CC #12 | CA 41A-41D | | No | | | | |
| 2CC #13 | CA 4A-12A | | 3CC #22 | 3CC #13 | CA 2A-66B | | No | 4CC #13 | CA 41C-41C | | No | | | | |
| 2CC #14 | CA 4A-13A | | 3CC #2 | 3CC #14 | CA 2A-66C | | No | | | | | | | | |
| 2CC #15 | CA 4A-17A | | No | 3CC #15 | CA 2A-2A-5A | | No | | | | | | | | |
| 2CC #16 | CA 4A-29A | | 3CC #23 | 3CC #16 | CA 2A-2A-12A | | 4CC #4 | | | | | | | | |
| 2CC #17 | CA 4A-30A | | 3CC #21 | 3CC #17 | CA 2A-2A-13A | | No | | | | | | | | |
| 2CC #18 | CA 4A-4A | | 3CC #24 | 3CC #18 | CA 2A-2A-30A | | 4CC #4 | | | | | | | | |
| 2CC #19 | CA 5A-7A | | No | 3CC #19 | CA 2A-2A-66A | | No | | | | | | | | |
| 2CC #20 | CA 5A-30A | | 4CC #1 | 3CC #20 | CA 2A-66A-66A | | No | | | | | | | | |
| 2CC #21 | CA 5A-66A | | No | 3CC #21 | CA 4A-5A-30A | | 4CC #1 | | | | | | | | |
| 2CC #22 | CA 5A-5A | | 4CC #8 | 3CC #22 | CA 4A-12A-30A | | 4CC #2 | | | | | | | | |
| 2CC #23 | CA 5B | | 3CC #27 | 3CC #23 | CA 4A-29A-30A | B29 SCC only | No | | | | | | | | |
| 2CC #24 | CA 7A-7A | | No | 3CC #24 | CA 4A-4A-5A | | No | | | | | | | | |
| 2CC #25 | CA 7B | | No | 3CC #25 | CA 4A-4A-13A | | No | | | | | | | | |
| 2CC #26 | CA 7C | | No | 3CC #26 | CA 5A-66A-66A | | No | | | | | | | | |
| 2CC #27 | CA 12A-30A | | 3CC #4 | 3CC #27 | CA 5B-30A | | 4CC #5 | | | | | | | | |
| 2CC #28 | CA 13A-66A | | 3CC #9 | 3CC #28 | CA 5B-66A | | 4CC #6 | | | | | | | | |
| 2CC #29 | CA 14A-30A | | 3CC #5 | 3CC #29 | CA 5A-66B | | 4CC #8 | | | | | | | | |
| 2CC #30 | CA 14A-66A | | 3CC #6 | 3CC #30 | CA 5A-66C | | 4CC #9 | | | | | | | | |
| 2CC #31 | CA 25A-26A | | No | 3CC #31 | CA 13A-66A-66A | | No | | | | | | | | |
| 2CC #32 | CA 25A-41A | | No | 3CC #32 | CA 14A-30A-66A | | 4CC #3 | | | | | | | | |
| 2CC #32 | CA 25A-25A | | No | 3CC #33 | CA 41A-41C | | No | | | | | | | | |
| 2CC #33 | CA 26A-41A | | No | 3CC #34 | CA 41D | | 4CC #11 | | | | | | | | |
| 2CC #34 | CA 29A-30A | B29 SCC only | 3CC #7 | 3CC #35 | CA 66A-66B | | No | | | | | | | | |
| 2CC #35 | CA 30A-66A | | 3CC #10 | 3CC #36 | CA 66A-66C | | No | | | | | | | | |
| 2CC #36 | CA 41C | | 3CC #33 | 3CC #37 | CA 66D | | No | | | | | | | | |
| 2CC #37 | CA 41A-41A | | No | | | | | | | | | | | | |
| 2CC #38 | CA 66A-66A | | 3CC #20 | | | | | | | | | | | | |
| 2CC #39 | CA 66B | | 3CC #29 | | | | | | | | | | | | |
| 2CC #40 | CA 66C | | 3CC #30 | | | | | | | | | | | | |

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Note:

1）For the inter-band CA combinations, except B29 can't be PCC, all the listed bands above can be used as PCC or SCC.

2) The channel spacing and aggregated channel bandwidth for CA are identical to the associated specification in 3GPP TS 36.521-1 V14.3.0.

3) The reference test frequencies for CA refers to 3GPP TS 36.508 V14.2.0

4) Testing is not required in bands or modes not intended/allowed for US operation

5) Based on TCB workshop April 2018, only indicate "No" in CA combination table need power measurement

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### 1.3.2 SAR test exclusion for LTE DL MIMO

SAR test exclusion for LTE DL MIMO was determined by UL power measurements with and without DL MIMO. SAR for DL MIMO was not needed since the maximum output power with DL MIMO active was not > 0.25dB higher than the maximum output power with DL MIMO inactive.

| DL MIMO maximum power verification | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PCC | | | | | | | Power | | Maximum power |
| PCC Band | PCC Bandwidth [MHz] | PCC (UL) Channel | PCC (UL) Frequency [MHz] | Modulation | PCC (UL) RB | PCC (UL) RB Offset | LTE Tx.Power with DL MIMO (dBm) | LTE Tx.Power without DL MIMO (dBm) | |
| LTE B2 | 20 | 19100 | 1900 | QPSK | 1 | 50 | 23.66 | 23.86 | Full power |
| LTE B2 | 20 | 19100 | 1900 | QPSK | 1 | 50 | 16.30 | 16.41 | Reduced power |
| LTE B4 | 20 | 20175 | 1732.5 | QPSK | 1 | 99 | 23.54 | 23.65 | Full power |
| LTE B4 | 20 | 20050 | 1720 | QPSK | 1 | 50 | 18.15 | 18.27 | Reduced power |
| LTE B5 | 10 | 20525 | 836.5 | QPSK | 1 | 25 | 24.77 | 24.93 | Full power |
| LTE B5 | 10 | 20525 | 836.5 | QPSK | 1 | 25 | 22.25 | 22.43 | Reduced power |
| LTE B7 | 20 | 21350 | 2560 | QPSK | 1 | 0 | 23.80 | 23.98 | Full power |
| LTE B7 | 20 | 20850 | 2510 | QPSK | 1 | 50 | 16.84 | 16.94 | Reduced power |
| LTE B12 | 10 | 23095 | 707.5 | QPSK | 1 | 25 | 23.85 | 23.98 | Full power |
| LTE B12 | 10 | 23095 | 707.5 | QPSK | 1 | 25 | 20.33 | 20.46 | Reduced power |
| LTE B13 | 10 | 23230 | 782 | QPSK | 1 | 25 | 23.83 | 23.95 | Full power |
| LTE B13 | 10 | 23230 | 782 | QPSK | 1 | 25 | 20.88 | 20.98 | Reduced power |
| LTE B14 | 10 | 23330 | 793 | QPSK | 1 | 0 | 23.81 | 23.97 | Full power |
| LTE B14 | 10 | 23330 | 793 | QPSK | 1 | 0 | 20.82 | 20.92 | Reduced power |
| LTE B17 | 10 | 23800 | 711 | QPSK | 1 | 0 | 23.83 | 23.98 | Full power |
| LTE B17 | 10 | 23800 | 711 | QPSK | 1 | 0 | 20.15 | 20.29 | Reduced power |
| LTE B25 | 20 | 26140 | 1860 | QPSK | 1 | 50 | 23.82 | 23.97 | Full power |
| LTE B25 | 20 | 26365 | 1882.5 | QPSK | 1 | 0 | 16.38 | 16.48 | Reduced power |
| LTE B26 | 15 | 26965 | 841.5 | QPSK | 1 | 0 | 24.41 | 24.44 | Full power |
| LTE B26 | 15 | 26965 | 841.5 | QPSK | 1 | 0 | 22.18 | 22.35 | Reduced power |
| LTE B30 | 10 | 27710 | 2310 | QPSK | 1 | 49 | 23.39 | 23.54 | Full power |
| LTE B30 | 10 | 27710 | 2310 | QPSK | 1 | 49 | 16.38 | 16.48 | Reduced power |
| LTE B66 | 20 | 132572 | 1770 | QPSK | 1 | 0 | 23.52 | 23.63 | Full power |
| LTE B66 | 20 | 132572 | 1770 | QPSK | 1 | 0 | 18.18 | 18.30 | Reduced power |
| LTE B38 | 20 | 38000 | 2595 | QPSK | 1 | 0 | 24.85 | 24.98 | Full power |
| LTE B38 | 20 | 38150 | 2610 | QPSK | 1 | 50 | 16.29 | 16.48 | Reduced power |
| LTE B41 | 20 | 41055 | 2636.5 | QPSK | 1 | 0 | 24.81 | 24.91 | Full power |

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## 1.4 Test Environment

Ambient Temperature: 22±2° C
Tissue Simulating Liquid: 22±2° C

## 1.5 Operation Description

For WWAN, the EUT is controlled by using a Radio Communication Tester, and the communication between the EUT and the tester is established by air link.
For WLAN, using chipset specific software to control the EUT, and makes it transmit in maximum power. The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.

EUT was tested as below based on KDB inquiry.

**WWAN / WLAN**

**Tablet mode**

Back/top/bottom/right/left sides_0mm with reduced power

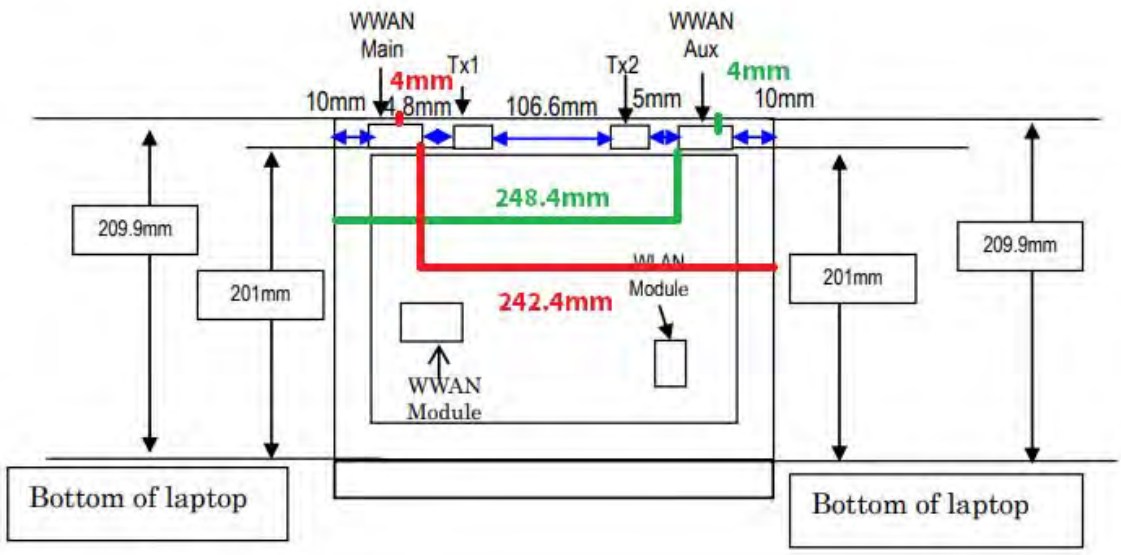
**Laptop mode**

SAR measurement for Laptop SAR with full power is not required since the distance between antenna and user is > 20cm

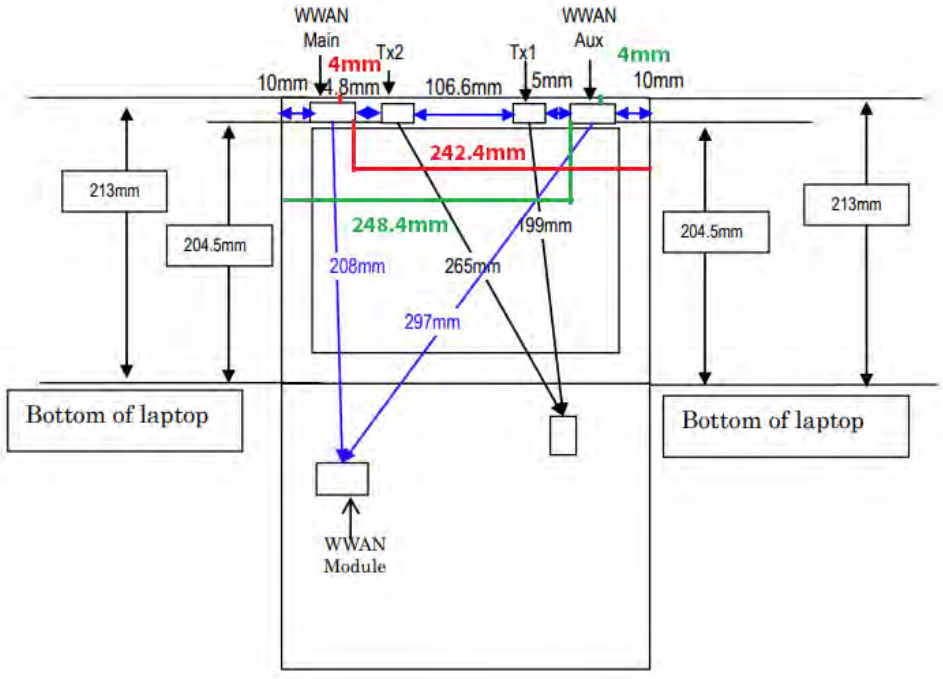
SAR measurement for stand/tent mode is not required since the device will be operated away from user in these modes based on KDB inquiry.

SAR measurement for flat condition is not required since the display content will not rotate when operating in flat condition based in KDB inquiry.

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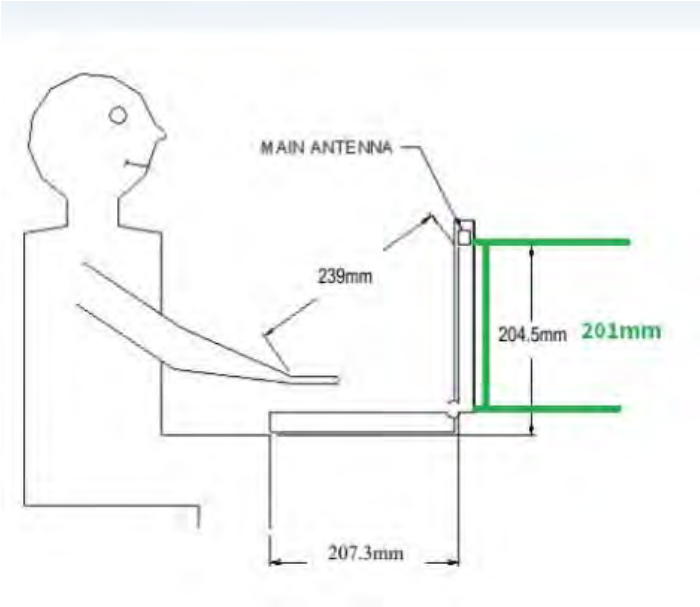



**Antenna location (Tablet mode)**




**Antenna location (Notebook mode)**

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**Antenna location of EUT (laptop mode)**

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**Note:**

1. During the SAR testing, the DASY 5 system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.

2. The 3G SAR test reduction procedure is applied to HSDPA with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSDPA) is ≤ ¼ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSDPA). The following 4 sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

| Sub-test | $\beta_c$ | $\beta_d$ | $\beta_d$ (SF) | $\beta_c/\beta_d$ | $\beta_{HS}$ (1)(2) | CM (3) (dB) | MPR (3) (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 0.0 | 0.0 |
| 2 | 12/15 (4) | 15/15 (4) | 64 | 12/15 (4) | 24/15 | 1.0 | 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 |

Note 1: $\Delta_{ACK}$, $\Delta_{NACK}$ and $\Delta_{CQI}$ = 30/15 with $\beta_{HS}$ = 30/15 * $\beta_c$.
Note 2: 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 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, $\Delta_{ACK}$ and $\Delta_{NACK}$ = 30/15 with $\beta_{HS}$ = 30/15 * $\beta_c$, and $\Delta_{CQI}$ = 24/15 with $\beta_{HS}$ = 24/15 * $\beta_c$.
Note 3: CM = 1 for $\beta_c/\beta_d$ = 12/15, $\beta_{HS}/\beta_c$ = 24/15. 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.
Note 4: 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.

3. The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA) is ≤ ¼ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA). The following 5 sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

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| Sub-test | $\beta_c$ | $\beta_d$ | $\beta_d$ (SF) | $\beta_c / \beta_d$ | $\beta_{HS}$ (1) | $\beta_{ec}$ | $\beta_{ed}$ (4)(5) | $\beta_{ed}$ (SF) | $\beta_{ed}$ (Codes) | CM (2) (dB) | MPR (2)(6) (dB) | AG (5) Index | E-TFCI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11/15 (3) | 15/15 (3) | 64 | 11/15 (3) | 22/15 | 209/225 | 1309/225 | 4 | 1 | 1.0 | 0.0 | 20 | 75 |
| 2 | 6/15 | 15/15 | 64 | 6/15 | 12/15 | 12/15 | 94/75 | 4 | 1 | 3.0 | 2.0 | 12 | 67 |
| 3 | 15/15 | 9/15 | 64 | 15/9 | 30/15 | 30/15 | $\beta_{ed}1$: 47/15<br>$\beta_{ed}2$: 47/15 | 4<br>4 | 2 | 2.0 | 1.0 | 15 | 92 |
| 4 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 2/15 | 56/75 | 4 | 1 | 3.0 | 2.0 | 17 | 71 |
| 5 | 15/15 | 0 | - | - | 5/15 | 5/15 | 47/15 | 4 | 1 | 1.0 | 0.0 | 12 | 67 |

Note 1: For sub-test 1 to 4, $\Delta_{ACK}$, $\Delta_{NACK}$ and $\Delta_{CQI}$ = 30/15 with $\beta_{HS}$ = 30/15 * $\beta_c$. For sub-test 5, $\Delta_{ACK}$, $\Delta_{NACK}$ and $\Delta_{CQI}$ = 5/15 with $\beta_{HS}$ = 5/15 * $\beta_c$.
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.
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.
Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.
Note 5: $\beta_{ed}$ can not be set directly; it is set by Absolute Grant Value.
Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

4. The 3G SAR test reduction procedure is applied to HSPA+ with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA+) is ≤ ¼ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA+). The following 1 sub-test was completed according to Release 7 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

**Table** C.11.1.4: **β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM**

| Sub-test | $\beta_c$ *(Note3)* | $\beta_d$ | $\beta_{HS}$ *(Note1)* | $\beta_{ec}$ | $\beta_{ed}$ *(2xSF2)* *(Note 4)* | $\beta_{ed}$ *(2xSF4)* *(Note 4)* | CM *(dB)* *(Note 2)* | MPR *(dB)* *(Note 2)* | *AG Index* *(Note 4)* | *E-TFCI* *(Note 5)* | *E-TFCI* *(boost)* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 0 | 30/15 | 30/15 | $\beta_{ed}1$: 30/15<br>$\beta_{ed}2$: 30/15 | $\beta_{ed}3$: 24/15<br>$\beta_{ed}4$: 24/15 | 3.5 | 2.5 | 14 | 105 | 105 |

Note 1: $\Delta_{ACK}$, $\Delta_{NACK}$ and $\Delta_{CQI}$ = 30/15 with $\beta_{hs}$ = 30/15 * $\beta_c$.
Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).
Note 3: DPDCH is not configured, therefore the $\beta_c$ is set to 1 and $\beta_d$ = 0 by default.
Note 4: $\beta_{ed}$ can not be set directly; it is set by Absolute Grant Value.
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.

5. 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 secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable. Since the maximum output power in a secondary mode (DC-HSDPA) is ≤ ¼ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (DC-HSDPA). The following tests were

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completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these setting are illustrated below:

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

**Table C.8.1.12: Fixed Reference Channel H-Set 12**

| Parameter | Unit | Value |
|---|---|---|
| Nominal Avg. Inf. Bit Rate | kbps | 60 |
| Inter-TTI Distance | TTI's | 1 |
| Number of HARQ Processes | Processes | 6 |
| Information Bit Payload ( $N_{INF}$ ) | Bits | 120 |
| Number Code Blocks | Blocks | 1 |
| Binary Channel Bits Per TTI | Bits | 960 |
| Total Available SML's in UE | SML's | 19200 |
| Number of SML's per HARQ Proc. | SML's | 3200 |
| Coding Rate | | 0.15 |
| Number of Physical Channel Codes | Codes | 1 |
| Modulation | | QPSK |
| 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.<br>Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used. | | |

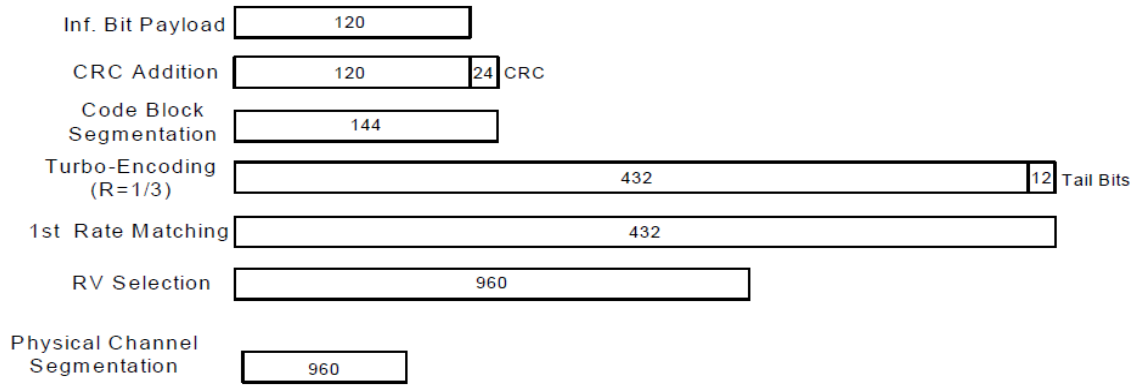



**Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)**

The following 4 sub-tests for HSDPA were completed according to Release 8 procedures in section 5.2 of 3GPP TS34.121. A summary of subtest settings are illustrated below:

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| Sub-test | $\beta_c$ | $\beta_d$ | $\beta_d$ (SF) | $\beta_c/\beta_d$ | $\beta_{HS}$ (1)(2) | CM (3) (dB) | MPR (3) (dB) |
|---|---|---|---|---|---|---|---|
| 1 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 0.0 | 0.0 |
| 2 | 12/15 (4) | 15/15 (4) | 64 | 12/15 (4) | 24/15 | 1.0 | 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 |

Note 1: $\Delta_{ACK}$, $\Delta_{NACK}$ and $\Delta_{CQI}$ = 30/15 with $\beta_{HS}$ = 30/15 * $\beta_c$.
Note 2: 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 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, $\Delta_{ACK}$ and $\Delta_{NACK}$ = 30/15 with $\beta_{HS}$ = 30/15 * $\beta_c$, and $\Delta_{CQI}$ = 24/15 with $\beta_{HS}$ = 24/15 * $\beta_c$.
Note 3: CM = 1 for $\beta_c/\beta_d$ = 12/15, $\beta_{HS}/\beta_c$ = 24/15. 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.
Note 4: 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.

6. LTE modes test according to **KDB 941225D05v02r05.**

a. Per Section 5.2.1, 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.

b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation

- The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.

c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for 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 5.2.1 and 5.2.2 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

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tested.

d. Per Section 5.2.4, Higher order modulations

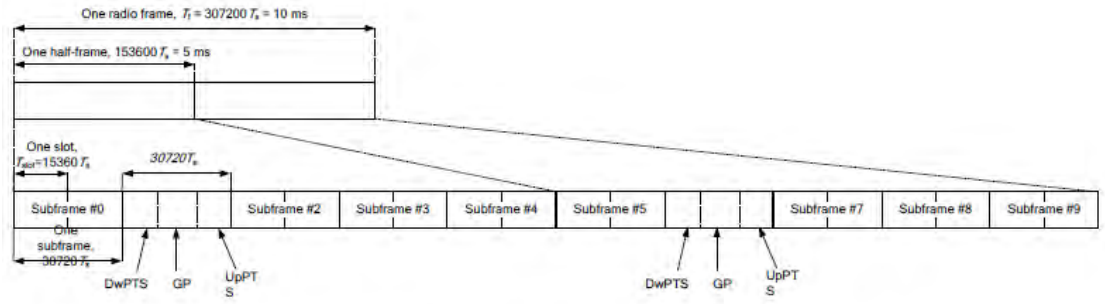
- For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power 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. Per Section 5.3, 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 5.2 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 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.
- TDD LTE was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 7. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.

According to KDB 941225 D05, SAR testing for TDD LTE 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 TDD LTE configurations. The TDD-LTE of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be tabulated as below.

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3GPP TS 36.211 Figure 4.2-1: Frame Structure Type 2

| 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 | | | 7680 · Ts | 4384 · Ts | 5120 · Ts |
| 5 | 6592 · Ts | 4384 · Ts | 5120 · Ts | 20480 · Ts | | |
| 6 | 19760 · Ts | | | 23040 · Ts | | |
| 7 | 21952 · Ts | | | 12800 · Ts | | |
| 8 | 24144 · Ts | | | - | - | - |
| 9 | 13168 · Ts | | | - | - | - |

3GPP TS 36.211 Table 4.2-1: Configuration of Special Subframe

| 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 |

3GPP TS 36.211 Table 4.2-2: Uplink-Downlink Configurations

The uplink duty cycle of these seven configurations can be computed as below.

| UL-DL Configuration | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| Highest Duty-Cycle | 63.33% | 43.33% | 23.33% | 31.67% | 21.67% | 11.67% | 53.33% |

Considering the highest transmission duty cycle, TDD LTE was tested using Uplink-Downlink configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 7 using extended cyclic prefix uplink. Therefore, SAR testing for TDD LTE was measured at the maximum output power with highest transmission duty cycle of 63.33%.

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LTE downlink CA (KDB942225 D05A)

7. The device supports a maximum of 3 carriers in the downlink. All uplink communications are identical to the Release 8 specifications. Uplink maximum output power is measured with downlink carrier aggregation active, only for 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.

8. The downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements. The nominal channel spacing is determined by [BW1 + BW2 – 0.1*|BW1 – BW2|]/2 MHz, where BW1 and BW2 are the channel bandwidths of the CC in a 2-CC aggregation configuration.

9. The downlink PCC channel should be paired with the uplink channel according to normal configurations, as if there is no carrier aggregation. The downlink SCC should be adjacent to the PCC and remain within the downlink transmission band for contiguous intra-band CA. For non-contiguous intra-band CA, the SCC should be selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band. For inter-band CA, the SCC should be near the middle of its transmission band.

10. 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, so SAR evaluation is not required for downlink carrier aggregation.

11. According to KDB447498D01v06, SAR test exclusion evaluation for

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surfaces/edges of tablet mode is not required since SAR measurements for all the surfaces/edges were performed.

12. According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz.

13. According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. 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 ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit)

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## 1.6 Operating modes validation by power measurement

The device is a convertible laptop computer with WWAN/WLAN/BT feature.

Based on KDB inquiry, there are the G-sensor in the device, and the sensor can detect the operation mode transformation and then adjust the maximum output power accordingly.

For the operating modes validation, the measured conducted output power is monitored qualitatively to identify the triggering characteristics and recorded quantitatively.

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### 1.6.1 Results and conclusion

The measured output power versus lid angle is tabulated in the following table, and the triggering verification complies with the device mode / power level declared by the manufacturer.

**Operating mode validation by power measurement**

| Antenna | Operation mode | Lid angle | 802.11b | 802.11g | 802.11n(20) | 802.11n(40) |
|---|---|---|---|---|---|---|
| WLAN Main (2.4GHz) | Lid close | 0° | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 19.93 | 19.78 | 19.83 | 18.87 |
| | | 40° | 19.85 | 19.80 | 19.79 | 18.96 |
| | | 50° | 19.84 | 19.79 | 19.82 | 18.94 |
| | | 60° | 19.90 | 19.86 | 19.88 | 18.93 |
| | | 70° | 19.92 | 19.77 | 19.82 | 18.87 |
| | | 80° | 19.88 | 19.77 | 19.85 | 18.89 |
| | | 90° | 19.91 | 19.83 | 19.81 | 18.92 |
| | | 100° | 19.85 | 19.79 | 19.85 | 18.91 |
| | | 110° | 19.85 | 19.79 | 19.84 | 18.93 |
| | | 120° | 19.93 | 19.80 | 19.82 | 18.90 |
| | | 129° | 19.87 | 19.77 | 19.83 | 18.90 |
| | Non-Notebook | 130° | 17.90 | 17.84 | 17.87 | 17.83 |
| | | 140° | 17.84 | 17.84 | 17.85 | 17.77 |
| | | 150° | 17.89 | 17.81 | 17.87 | 17.80 |
| | | 160° | 17.86 | 17.83 | 17.86 | 17.77 |
| | | 170° | 17.90 | 17.88 | 17.81 | 17.84 |
| | | 180° | 17.91 | 17.88 | 17.84 | 17.80 |
| | | 190° | 17.85 | 17.89 | 17.85 | 17.77 |
| | | 200° | 17.85 | 17.82 | 17.83 | 17.83 |
| | | 210° | 17.87 | 17.89 | 17.89 | 17.82 |
| | | 220° | 17.83 | 17.86 | 17.82 | 17.77 |
| | | 230° | 17.92 | 17.86 | 17.87 | 17.78 |
| | | 240° | 17.83 | 17.90 | 17.88 | 17.78 |
| | | 250° | 17.84 | 17.90 | 17.88 | 17.76 |
| | | 260° | 17.90 | 17.90 | 17.80 | 17.75 |
| | | 270° | 17.90 | 17.88 | 17.87 | 17.81 |
| | | 280° | 17.83 | 17.85 | 17.82 | 17.81 |
| | | 290° | 17.91 | 17.86 | 17.87 | 17.79 |
| | | 300° | 17.90 | 17.89 | 17.81 | 17.83 |
| | | 310° | 17.86 | 17.86 | 17.88 | 17.77 |
| | | 320° | 17.86 | 17.85 | 17.89 | 17.83 |
| | | 330° | 17.85 | 17.81 | 17.84 | 17.79 |
| | | 340° | 17.90 | 17.86 | 17.80 | 17.84 |
| | | 350° | 17.83 | 17.86 | 17.82 | 17.76 |
| | | 360° | 17.91 | 17.87 | 17.87 | 17.77 |

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| Antenna | Operation mode | Lid angle | 802.11b | 802.11g | 802.11n(20) | 802.11n(40) |
|---|---|---|---|---|---|---|
| WLAN Main (2.4GHz) | Stand | 201° | 19.87 | 19.85 | 19.82 | 18.89 |
| | | 210° | 19.91 | 19.81 | 19.81 | 18.93 |
| | | 220° | 19.86 | 19.80 | 19.80 | 18.94 |
| | | 230° | 19.86 | 19.84 | 19.87 | 18.90 |
| | | 240° | 19.85 | 19.79 | 19.83 | 18.88 |
| | | 250° | 19.91 | 19.77 | 19.82 | 18.92 |
| | | 260° | 19.87 | 19.82 | 19.88 | 18.87 |
| | | 270° | 19.89 | 19.84 | 19.83 | 18.87 |
| | | 280° | 19.88 | 19.84 | 19.79 | 18.87 |
| | | 290° | 19.88 | 19.86 | 19.81 | 18.95 |
| | | 300° | 19.84 | 19.81 | 19.87 | 18.91 |
| | | 310° | 19.87 | 19.78 | 19.85 | 18.90 |
| | | 320° | 19.90 | 19.80 | 19.80 | 18.92 |
| | | 330° | 19.85 | 19.81 | 19.86 | 18.87 |
| | | 340° | 19.89 | 19.80 | 19.80 | 18.88 |
| | | 345° | 19.92 | 19.79 | 19.83 | 18.87 |

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| Antenna | Operation mode | Lid angle | 802.11b | 802.11g | 802.11n(20) | 802.11n(40) |
|---|---|---|---|---|---|---|
| WLAN Aux (2.4GHz) | Lid close | 0° | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 19.86 | 19.89 | 19.85 | 18.78 |
| | | 40° | 19.83 | 19.96 | 19.82 | 18.74 |
| | | 50° | 19.90 | 19.92 | 19.85 | 18.77 |
| | | 60° | 19.84 | 19.90 | 19.88 | 18.70 |
| | | 70° | 19.85 | 19.91 | 19.88 | 18.72 |
| | | 80° | 19.81 | 19.93 | 19.84 | 18.73 |
| | | 90° | 19.81 | 19.98 | 19.88 | 18.72 |
| | | 100° | 19.90 | 19.93 | 19.80 | 18.78 |
| | | 110° | 19.87 | 19.92 | 19.83 | 18.69 |
| | | 120° | 19.88 | 19.95 | 19.86 | 18.73 |
| | | 129° | 19.87 | 19.96 | 19.88 | 18.74 |
| | Non-Notebook | 130° | 17.82 | 17.90 | 17.83 | 17.84 |
| | | 140° | 17.82 | 17.84 | 17.83 | 17.76 |
| | | 150° | 17.80 | 17.82 | 17.89 | 17.76 |
| | | 160° | 17.80 | 17.81 | 17.91 | 17.76 |
| | | 170° | 17.86 | 17.87 | 17.92 | 17.77 |
| | | 180° | 17.82 | 17.83 | 17.90 | 17.85 |
| | | 190° | 17.82 | 17.87 | 17.86 | 17.82 |
| | | 200° | 17.86 | 17.86 | 17.83 | 17.82 |
| | | 210° | 17.85 | 17.86 | 17.92 | 17.82 |
| | | 220° | 17.81 | 17.84 | 17.87 | 17.76 |
| | | 230° | 17.81 | 17.86 | 17.89 | 17.79 |
| | | 240° | 17.82 | 17.83 | 17.87 | 17.82 |
| | | 250° | 17.83 | 17.88 | 17.86 | 17.79 |
| | | 260° | 17.81 | 17.89 | 17.88 | 17.81 |
| | | 270° | 17.83 | 17.86 | 17.85 | 17.82 |
| | | 280° | 17.85 | 17.81 | 17.90 | 17.82 |
| | | 290° | 17.89 | 17.90 | 17.89 | 17.80 |
| | | 300° | 17.86 | 17.89 | 17.88 | 17.76 |
| | | 310° | 17.86 | 17.87 | 17.88 | 17.77 |
| | | 320° | 17.88 | 17.83 | 17.91 | 17.84 |
| | | 330° | 17.84 | 17.84 | 17.90 | 17.82 |
| | | 340° | 17.82 | 17.86 | 17.84 | 17.85 |
| | | 350° | 17.80 | 17.85 | 17.92 | 17.77 |
| | | 360° | 17.85 | 17.88 | 17.87 | 17.84 |

| Antenna | Operation mode | Lid angle | 802.11b | 802.11g | 802.11n(20) | 802.11n(40) |
|---|---|---|---|---|---|---|
| WLAN Aux (2.4GHz) | Stand | 201° | 19.84 | 19.91 | 19.84 | 18.73 |
| | | 210° | 19.86 | 19.98 | 19.82 | 18.75 |
| | | 220° | 19.84 | 19.93 | 19.89 | 18.78 |
| | | 230° | 19.86 | 19.92 | 19.83 | 18.74 |
| | | 240° | 19.89 | 19.94 | 19.80 | 18.73 |
| | | 250° | 19.89 | 19.91 | 19.80 | 18.74 |
| | | 260° | 19.90 | 19.97 | 19.89 | 18.77 |
| | | 270° | 19.82 | 19.90 | 19.86 | 18.71 |
| | | 280° | 19.81 | 19.97 | 19.88 | 18.71 |
| | | 290° | 19.85 | 19.94 | 19.89 | 18.73 |
| | | 300° | 19.81 | 19.97 | 19.86 | 18.77 |
| | | 310° | 19.90 | 19.95 | 19.86 | 18.71 |
| | | 320° | 19.85 | 19.96 | 19.82 | 18.77 |
| | | 330° | 19.86 | 19.97 | 19.89 | 18.70 |
| | | 340° | 19.81 | 19.91 | 19.85 | 18.74 |
| | | 345° | 19.86 | 19.93 | 19.89 | 18.77 |

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| Antenna | Operation mode | Lid angle | 802.11b | 802.11g | 802.11n(20) | 802.11n(40) | 802.11ac(40) | 802.11ac(80) |
|---|---|---|---|---|---|---|---|---|
| WLAN Main (5.2GHz) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 19.94 | 19.86 | 19.82 | 19.88 | 19.71 | 13.86 |
| | | 40° | 19.94 | 19.82 | 19.83 | 19.85 | 19.75 | 13.88 |
| | | 50° | 19.90 | 19.85 | 19.84 | 19.85 | 19.80 | 13.88 |
| | | 60° | 19.91 | 19.83 | 19.80 | 19.86 | 19.74 | 13.84 |
| | | 70° | 19.89 | 19.81 | 19.86 | 19.90 | 19.71 | 13.84 |
| | | 80° | 19.89 | 19.78 | 19.86 | 19.85 | 19.76 | 13.89 |
| | | 90° | 19.88 | 19.80 | 19.85 | 19.91 | 19.75 | 13.92 |
| | | 100° | 19.94 | 19.84 | 19.80 | 19.92 | 19.71 | 13.92 |
| | | 110° | 19.89 | 19.81 | 19.81 | 19.85 | 19.74 | 13.90 |
| | | 120° | 19.95 | 19.79 | 19.81 | 19.90 | 19.77 | 13.85 |
| | | 129° | 19.86 | 19.84 | 19.78 | 19.86 | 19.71 | 13.86 |
| | Non-Notebook | 130° | 15.72 | 15.61 | 15.80 | 15.87 | 15.87 | 13.80 |
| | | 140° | 15.71 | 15.65 | 15.84 | 15.86 | 15.79 | 13.81 |
| | | 150° | 15.72 | 15.69 | 15.80 | 15.91 | 15.86 | 13.78 |
| | | 160° | 15.68 | 15.62 | 15.83 | 15.87 | 15.82 | 13.84 |
| | | 170° | 15.73 | 15.68 | 15.83 | 15.90 | 15.87 | 13.75 |
| | | 180° | 15.75 | 15.62 | 15.89 | 15.93 | 15.81 | 13.83 |
| | | 190° | 15.74 | 15.67 | 15.84 | 15.87 | 15.78 | 13.81 |
| | | 200° | 15.70 | 15.61 | 15.81 | 15.90 | 15.81 | 13.76 |
| | | 210° | 15.75 | 15.63 | 15.86 | 15.92 | 15.83 | 13.83 |
| | | 220° | 15.72 | 15.68 | 15.86 | 15.85 | 15.79 | 13.83 |
| | | 230° | 15.69 | 15.62 | 15.88 | 15.86 | 15.80 | 13.82 |
| | | 240° | 15.67 | 15.64 | 15.81 | 15.86 | 15.82 | 13.81 |
| | | 250° | 15.68 | 15.67 | 15.80 | 15.91 | 15.85 | 13.79 |
| | | 260° | 15.66 | 15.70 | 15.80 | 15.92 | 15.83 | 13.76 |
| | | 270° | 15.70 | 15.69 | 15.85 | 15.88 | 15.80 | 13.77 |
| | | 280° | 15.66 | 15.63 | 15.87 | 15.91 | 15.87 | 13.76 |
| | | 290° | 15.74 | 15.62 | 15.85 | 15.85 | 15.83 | 13.77 |
| | | 300° | 15.67 | 15.67 | 15.85 | 15.88 | 15.82 | 13.82 |
| | | 310° | 15.66 | 15.63 | 15.85 | 15.87 | 15.86 | 13.80 |
| | | 320° | 15.71 | 15.63 | 15.84 | 15.90 | 15.85 | 13.76 |
| | | 330° | 15.74 | 15.67 | 15.80 | 15.93 | 15.82 | 13.80 |
| | | 340° | 15.74 | 15.68 | 15.85 | 15.88 | 15.85 | 13.78 |
| | | 350° | 15.74 | 15.65 | 15.84 | 15.85 | 15.79 | 13.78 |
| | | 360° | 15.67 | 15.64 | 15.84 | 15.90 | 15.78 | 13.78 |

| Antenna | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
|---|---|---|---|---|---|---|---|---|
| WLAN Main (5.2GHz) | Stand | 201° | 19.93 | 19.82 | 19.77 | 19.91 | 19.77 | 13.87 |
| | | 210° | 19.95 | 19.83 | 19.82 | 19.88 | 19.79 | 13.87 |
| | | 220° | 19.91 | 19.81 | 19.77 | 19.84 | 19.80 | 13.91 |
| | | 230° | 19.92 | 19.82 | 19.82 | 19.91 | 19.80 | 13.86 |
| | | 240° | 19.87 | 19.78 | 19.78 | 19.91 | 19.80 | 13.83 |
| | | 250° | 19.88 | 19.86 | 19.77 | 19.85 | 19.80 | 13.89 |
| | | 260° | 19.95 | 19.79 | 19.77 | 19.89 | 19.78 | 13.87 |
| | | 270° | 19.93 | 19.79 | 19.77 | 19.85 | 19.71 | 13.86 |
| | | 280° | 19.94 | 19.87 | 19.83 | 19.89 | 19.71 | 13.88 |
| | | 290° | 19.89 | 19.81 | 19.78 | 19.89 | 19.76 | 13.87 |
| | | 300° | 19.89 | 19.87 | 19.84 | 19.92 | 19.72 | 13.87 |
| | | 310° | 19.90 | 19.83 | 19.85 | 19.92 | 19.78 | 13.87 |
| | | 320° | 19.87 | 19.83 | 19.83 | 19.90 | 19.72 | 13.83 |
| | | 330° | 19.91 | 19.79 | 19.81 | 19.85 | 19.75 | 13.84 |
| | | 340° | 19.93 | 19.81 | 19.79 | 19.92 | 19.79 | 13.92 |
| | | 345° | 19.87 | 19.83 | 19.78 | 19.92 | 19.78 | 13.85 |

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| Antenna | Operation mode | Lid angle | 802.11b | 802.11g | 802.11n(20) | 802.11n(40) | 802.11ac(40) | 802.11ac(80) |
|---|---|---|---|---|---|---|---|---|
| WLAN Aux (5.2GHz) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 19.92 | 19.88 | 19.79 | 19.91 | 19.92 | 13.85 |
| | | 40° | 19.97 | 19.80 | 19.84 | 19.85 | 19.84 | 13.82 |
| | | 50° | 19.91 | 19.84 | 19.79 | 19.93 | 19.90 | 13.85 |
| | | 60° | 19.90 | 19.87 | 19.82 | 19.86 | 19.93 | 13.84 |
| | | 70° | 19.98 | 19.83 | 19.79 | 19.91 | 19.85 | 13.81 |
| | | 80° | 19.92 | 19.81 | 19.82 | 19.93 | 19.90 | 13.85 |
| | | 90° | 19.94 | 19.80 | 19.87 | 19.92 | 19.92 | 13.80 |
| | | 100° | 19.94 | 19.87 | 19.82 | 19.92 | 19.89 | 13.85 |
| | | 110° | 19.93 | 19.80 | 19.87 | 19.91 | 19.88 | 13.85 |
| | | 120° | 19.89 | 19.86 | 19.81 | 19.84 | 19.88 | 13.80 |
| | | 129° | 19.89 | 19.85 | 19.82 | 19.89 | 19.91 | 13.85 |
| | Non-Notebook | 130° | 16.20 | 16.27 | 16.32 | 16.47 | 16.39 | 13.87 |
| | | 140° | 16.27 | 16.26 | 16.36 | 16.46 | 16.35 | 13.91 |
| | | 150° | 16.24 | 16.31 | 16.37 | 16.40 | 16.37 | 13.90 |
| | | 160° | 16.26 | 16.35 | 16.37 | 16.46 | 16.34 | 13.91 |
| | | 170° | 16.23 | 16.26 | 16.30 | 16.47 | 16.34 | 13.87 |
| | | 180° | 16.18 | 16.35 | 16.33 | 16.43 | 16.31 | 13.91 |
| | | 190° | 16.23 | 16.26 | 16.38 | 16.45 | 16.37 | 13.91 |
| | | 200° | 16.18 | 16.31 | 16.34 | 16.43 | 16.37 | 13.93 |
| | | 210° | 16.25 | 16.26 | 16.35 | 16.46 | 16.37 | 13.91 |
| | | 220° | 16.20 | 16.35 | 16.38 | 16.41 | 16.33 | 13.90 |
| | | 230° | 16.20 | 16.30 | 16.39 | 16.43 | 16.33 | 13.89 |
| | | 240° | 16.26 | 16.32 | 16.39 | 16.41 | 16.34 | 13.88 |
| | | 250° | 16.23 | 16.31 | 16.32 | 16.45 | 16.38 | 13.85 |
| | | 260° | 16.21 | 16.35 | 16.33 | 16.43 | 16.34 | 13.92 |
| | | 270° | 16.19 | 16.29 | 16.30 | 16.47 | 16.40 | 13.90 |
| | | 280° | 16.24 | 16.34 | 16.37 | 16.45 | 16.31 | 13.90 |
| | | 290° | 16.23 | 16.26 | 16.31 | 16.46 | 16.33 | 13.86 |
| | | 300° | 16.18 | 16.32 | 16.37 | 16.46 | 16.35 | 13.86 |
| | | 310° | 16.21 | 16.34 | 16.30 | 16.47 | 16.31 | 13.94 |
| | | 320° | 16.23 | 16.27 | 16.38 | 16.48 | 16.38 | 13.85 |
| | | 330° | 16.20 | 16.34 | 16.32 | 16.41 | 16.36 | 13.89 |
| | | 340° | 16.25 | 16.31 | 16.32 | 16.47 | 16.33 | 13.91 |
| | | 350° | 16.21 | 16.34 | 16.34 | 16.47 | 16.40 | 13.85 |
| | | 360° | 16.26 | 16.33 | 16.30 | 16.40 | 16.38 | 13.89 |

| Antenna | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
|---|---|---|---|---|---|---|---|---|
| WLAN Aux (5.2GHz) | Stand | 201° | 19.98 | 19.81 | 19.88 | 19.87 | 19.93 | 13.85 |
| | | 210° | 19.93 | 19.80 | 19.83 | 19.85 | 19.91 | 13.85 |
| | | 220° | 19.92 | 19.82 | 19.79 | 19.87 | 19.93 | 13.78 |
| | | 230° | 19.94 | 19.83 | 19.87 | 19.89 | 19.93 | 13.83 |
| | | 240° | 19.95 | 19.88 | 19.79 | 19.87 | 19.87 | 13.84 |
| | | 250° | 19.93 | 19.87 | 19.84 | 19.92 | 19.84 | 13.80 |
| | | 260° | 19.90 | 19.82 | 19.88 | 19.92 | 19.93 | 13.77 |
| | | 270° | 19.89 | 19.82 | 19.84 | 19.88 | 19.92 | 13.81 |
| | | 280° | 19.90 | 19.87 | 19.85 | 19.92 | 19.92 | 13.77 |
| | | 290° | 19.91 | 19.80 | 19.86 | 19.92 | 19.85 | 13.85 |
| | | 300° | 19.96 | 19.83 | 19.88 | 19.84 | 19.88 | 13.86 |
| | | 310° | 19.98 | 19.84 | 19.82 | 19.91 | 19.89 | 13.86 |
| | | 320° | 19.98 | 19.86 | 19.82 | 19.91 | 19.87 | 13.83 |
| | | 330° | 19.91 | 19.82 | 19.86 | 19.84 | 19.85 | 13.79 |
| | | 340° | 19.92 | 19.88 | 19.87 | 19.87 | 19.88 | 13.82 |
| | | 345° | 19.97 | 19.81 | 19.88 | 19.87 | 19.86 | 13.78 |

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| Antenna | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
|---|---|---|---|---|---|---|---|---|
| WLAN Main (5.3GHz) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 19.85 | 19.59 | 19.66 | 19.74 | 19.81 | 11.78 |
| | | 40° | 19.80 | 19.75 | 19.72 | 19.81 | 19.83 | 11.62 |
| | | 50° | 19.72 | 19.84 | 19.73 | 19.76 | 19.72 | 11.66 |
| | | 60° | 19.65 | 19.67 | 19.81 | 19.69 | 19.82 | 11.63 |
| | | 70° | 19.78 | 19.72 | 19.77 | 19.82 | 19.77 | 11.75 |
| | | 80° | 19.76 | 19.67 | 19.57 | 19.71 | 19.79 | 11.65 |
| | | 90° | 19.74 | 19.67 | 19.77 | 19.69 | 19.75 | 11.78 |
| | | 100° | 19.68 | 19.60 | 19.72 | 19.77 | 19.86 | 11.74 |
| | | 110° | 19.71 | 19.73 | 19.66 | 19.78 | 19.80 | 11.64 |
| | | 120° | 19.76 | 19.64 | 19.72 | 19.86 | 19.86 | 11.72 |
| | | 129° | 19.74 | 19.67 | 19.64 | 19.69 | 19.76 | 11.68 |
| | Non-Notebook | 130° | 15.69 | 15.67 | 15.77 | 15.79 | 15.79 | 11.84 |
| | | 140° | 15.68 | 15.62 | 15.67 | 15.84 | 15.77 | 11.85 |
| | | 150° | 15.71 | 15.69 | 15.78 | 15.73 | 15.60 | 11.71 |
| | | 160° | 15.81 | 15.81 | 15.80 | 15.86 | 15.65 | 11.78 |
| | | 170° | 15.78 | 15.67 | 15.72 | 15.78 | 15.70 | 11.78 |
| | | 180° | 15.79 | 15.71 | 15.85 | 15.79 | 15.72 | 11.83 |
| | | 190° | 15.79 | 15.78 | 15.74 | 15.85 | 15.66 | 11.81 |
| | | 200° | 15.79 | 15.64 | 15.63 | 15.78 | 15.67 | 11.81 |
| | | 210° | 15.68 | 15.65 | 15.84 | 15.77 | 15.67 | 11.83 |
| | | 220° | 15.77 | 15.71 | 15.69 | 15.77 | 15.79 | 11.86 |
| | | 230° | 15.63 | 15.81 | 15.70 | 15.79 | 15.76 | 11.71 |
| | | 240° | 15.78 | 15.67 | 15.70 | 15.81 | 15.59 | 11.82 |
| | | 250° | 15.75 | 15.78 | 15.74 | 15.73 | 15.78 | 11.81 |
| | | 260° | 15.80 | 15.78 | 15.63 | 15.79 | 15.79 | 11.90 |
| | | 270° | 15.77 | 15.77 | 15.84 | 15.86 | 15.84 | 11.86 |
| | | 280° | 15.79 | 15.77 | 15.75 | 15.84 | 15.69 | 11.85 |
| | | 290° | 15.71 | 15.77 | 15.75 | 15.82 | 15.71 | 11.74 |
| | | 300° | 15.73 | 15.66 | 15.75 | 15.82 | 15.70 | 11.78 |
| | | 310° | 15.76 | 15.68 | 15.82 | 15.74 | 15.75 | 11.71 |
| | | 320° | 15.77 | 15.62 | 15.79 | 15.84 | 15.56 | 11.72 |
| | | 330° | 15.75 | 15.81 | 15.76 | 15.86 | 15.70 | 11.82 |
| | | 340° | 15.86 | 15.62 | 15.66 | 15.82 | 15.71 | 11.77 |
| | | 350° | 15.76 | 15.71 | 15.63 | 15.71 | 15.60 | 11.76 |
| | | 360° | 15.63 | 15.76 | 15.85 | 15.71 | 15.63 | 11.79 |
| Antenna | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
| WLAN Main (5.3GHz) | Stand | 201° | 19.81 | 19.83 | 19.78 | 19.88 | 19.87 | 11.75 |
| | | 210° | 19.84 | 19.79 | 19.78 | 19.83 | 19.84 | 11.84 |
| | | 220° | 19.83 | 19.77 | 19.77 | 19.88 | 19.87 | 11.81 |
| | | 230° | 19.85 | 19.84 | 19.75 | 19.89 | 19.90 | 11.75 |
| | | 240° | 19.88 | 19.77 | 19.78 | 19.89 | 19.84 | 11.80 |
| | | 250° | 19.80 | 19.78 | 19.74 | 19.86 | 19.92 | 11.79 |
| | | 260° | 19.83 | 19.84 | 19.80 | 19.91 | 19.88 | 11.77 |
| | | 270° | 19.82 | 19.77 | 19.80 | 19.91 | 19.92 | 11.77 |
| | | 280° | 19.81 | 19.76 | 19.79 | 19.88 | 19.90 | 11.83 |
| | | 290° | 19.88 | 19.79 | 19.78 | 19.84 | 19.90 | 11.82 |
| | | 300° | 19.84 | 19.84 | 19.82 | 19.83 | 19.86 | 11.83 |
| | | 310° | 19.87 | 19.77 | 19.77 | 19.84 | 19.89 | 11.83 |
| | | 320° | 19.82 | 19.79 | 19.77 | 19.92 | 19.86 | 11.75 |
| | | 330° | 19.84 | 19.76 | 19.74 | 19.91 | 19.91 | 11.78 |
| | | 340° | 19.83 | 19.77 | 19.78 | 19.90 | 19.84 | 11.77 |
| | | 345° | 19.80 | 19.84 | 19.77 | 19.85 | 19.88 | 11.80 |

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| Antenna | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
|---|---|---|---|---|---|---|---|---|
| WLAN Aux (5.3GHz) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 19.91 | 19.85 | 19.85 | 19.89 | 19.93 | 11.83 |
| | | 40° | 19.90 | 19.87 | 19.85 | 19.91 | 19.93 | 11.83 |
| | | 50° | 19.89 | 19.83 | 19.77 | 19.86 | 19.95 | 11.86 |
| | | 60° | 19.91 | 19.85 | 19.77 | 19.94 | 19.92 | 11.80 |
| | | 70° | 19.87 | 19.87 | 19.83 | 19.94 | 19.89 | 11.84 |
| | | 80° | 19.90 | 19.80 | 19.77 | 19.88 | 19.87 | 11.83 |
| | | 90° | 19.91 | 19.84 | 19.82 | 19.85 | 19.92 | 11.82 |
| | | 100° | 19.84 | 19.87 | 19.84 | 19.90 | 19.95 | 11.83 |
| | | 110° | 19.90 | 19.83 | 19.83 | 19.94 | 19.94 | 11.83 |
| | | 120° | 19.83 | 19.88 | 19.78 | 19.88 | 19.89 | 11.79 |
| | | 129° | 19.85 | 19.82 | 19.83 | 19.90 | 19.90 | 11.80 |
| | Non-Notebook | 130° | 16.34 | 16.40 | 16.18 | 16.33 | 16.44 | 11.85 |
| | | 140° | 16.29 | 16.36 | 16.21 | 16.27 | 16.35 | 11.84 |
| | | 150° | 16.34 | 16.35 | 16.21 | 16.35 | 16.40 | 11.82 |
| | | 160° | 16.34 | 16.37 | 16.23 | 16.33 | 16.38 | 11.81 |
| | | 170° | 16.28 | 16.32 | 16.16 | 16.29 | 16.36 | 11.83 |
| | | 180° | 16.31 | 16.37 | 16.19 | 16.33 | 16.36 | 11.81 |
| | | 190° | 16.29 | 16.33 | 16.24 | 16.36 | 16.39 | 11.82 |
| | | 200° | 16.33 | 16.35 | 16.19 | 16.28 | 16.41 | 11.84 |
| | | 210° | 16.29 | 16.36 | 16.24 | 16.28 | 16.43 | 11.83 |
| | | 220° | 16.31 | 16.39 | 16.25 | 16.30 | 16.41 | 11.85 |
| | | 230° | 16.29 | 16.31 | 16.20 | 16.36 | 16.40 | 11.77 |
| | | 240° | 16.28 | 16.31 | 16.21 | 16.29 | 16.40 | 11.78 |
| | | 250° | 16.32 | 16.33 | 16.17 | 16.33 | 16.41 | 11.85 |
| | | 260° | 16.35 | 16.34 | 16.22 | 16.29 | 16.43 | 11.79 |
| | | 270° | 16.28 | 16.36 | 16.25 | 16.29 | 16.42 | 11.82 |
| | | 280° | 16.30 | 16.34 | 16.19 | 16.30 | 16.44 | 11.84 |
| | | 290° | 16.32 | 16.40 | 16.25 | 16.27 | 16.39 | 11.79 |
| | | 300° | 16.34 | 16.33 | 16.17 | 16.28 | 16.38 | 11.80 |
| | | 310° | 16.30 | 16.32 | 16.20 | 16.35 | 16.36 | 11.78 |
| | | 320° | 16.29 | 16.38 | 16.21 | 16.35 | 16.44 | 11.80 |
| | | 330° | 16.32 | 16.31 | 16.24 | 16.31 | 16.39 | 11.84 |
| | | 340° | 16.34 | 16.35 | 16.23 | 16.35 | 16.42 | 11.80 |
| | | 350° | 16.35 | 16.35 | 16.24 | 16.27 | 16.38 | 11.82 |
| | | 360° | 16.28 | 16.36 | 16.16 | 16.28 | 16.42 | 11.79 |
| Antenna | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
| WLAN Aux (5.3GHz) | Stand | 201° | 19.83 | 19.80 | 19.81 | 19.90 | 19.91 | 11.87 |
| | | 210° | 19.86 | 19.88 | 19.80 | 19.91 | 19.86 | 11.88 |
| | | 220° | 19.89 | 19.84 | 19.84 | 19.90 | 19.94 | 11.86 |
| | | 230° | 19.89 | 19.86 | 19.78 | 19.89 | 19.89 | 11.85 |
| | | 240° | 19.89 | 19.86 | 19.83 | 19.91 | 19.93 | 11.80 |
| | | 250° | 19.83 | 19.81 | 19.85 | 19.87 | 19.87 | 11.81 |
| | | 260° | 19.84 | 19.81 | 19.82 | 19.85 | 19.93 | 11.86 |
| | | 270° | 19.89 | 19.85 | 19.84 | 19.92 | 19.86 | 11.80 |
| | | 280° | 19.92 | 19.81 | 19.76 | 19.88 | 19.94 | 11.85 |
| | | 290° | 19.89 | 19.86 | 19.81 | 19.89 | 19.86 | 11.85 |
| | | 300° | 19.83 | 19.89 | 19.78 | 19.90 | 19.89 | 11.80 |
| | | 310° | 19.86 | 19.85 | 19.84 | 19.93 | 19.92 | 11.80 |
| | | 320° | 19.87 | 19.83 | 19.78 | 19.93 | 19.89 | 11.80 |
| | | 330° | 19.83 | 19.89 | 19.78 | 19.93 | 19.90 | 11.87 |
| | | 340° | 19.91 | 19.80 | 19.84 | 19.91 | 19.86 | 11.85 |
| | | 345° | 19.91 | 19.83 | 19.78 | 19.93 | 19.91 | 11.79 |

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| Antenna | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
|---|---|---|---|---|---|---|---|---|
| WLAN Main (5.6GHz) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 19.70 | 19.80 | 19.71 | 19.69 | 19.85 | 19.91 |
| | | 40° | 19.75 | 19.73 | 19.74 | 19.71 | 19.82 | 19.92 |
| | | 50° | 19.76 | 19.74 | 19.74 | 19.68 | 19.79 | 19.90 |
| | | 60° | 19.72 | 19.75 | 19.69 | 19.64 | 19.79 | 19.89 |
| | | 70° | 19.72 | 19.71 | 19.71 | 19.72 | 19.85 | 19.86 |
| | | 80° | 19.69 | 19.80 | 19.69 | 19.69 | 19.84 | 19.90 |
| | | 90° | 19.78 | 19.74 | 19.73 | 19.73 | 19.76 | 19.93 |
| | | 100° | 19.73 | 19.74 | 19.70 | 19.69 | 19.81 | 19.90 |
| | | 110° | 19.73 | 19.77 | 19.71 | 19.72 | 19.76 | 19.87 |
| | | 120° | 19.76 | 19.76 | 19.73 | 19.69 | 19.81 | 19.86 |
| | | 129° | 19.75 | 19.73 | 19.77 | 19.64 | 19.77 | 19.89 |
| | Non-Notebook | 130° | 15.78 | 15.78 | 15.82 | 15.83 | 15.78 | 15.85 |
| | | 140° | 15.80 | 15.75 | 15.81 | 15.83 | 15.82 | 15.83 |
| | | 150° | 15.79 | 15.78 | 15.74 | 15.88 | 15.81 | 15.89 |
| | | 160° | 15.81 | 15.76 | 15.75 | 15.84 | 15.82 | 15.85 |
| | | 170° | 15.75 | 15.84 | 15.74 | 15.86 | 15.85 | 15.87 |
| | | 180° | 15.72 | 15.78 | 15.77 | 15.87 | 15.80 | 15.82 |
| | | 190° | 15.73 | 15.78 | 15.83 | 15.79 | 15.85 | 15.84 |
| | | 200° | 15.72 | 15.76 | 15.78 | 15.83 | 15.79 | 15.87 |
| | | 210° | 15.79 | 15.77 | 15.76 | 15.80 | 15.83 | 15.82 |
| | | 220° | 15.75 | 15.81 | 15.75 | 15.86 | 15.85 | 15.88 |
| | | 230° | 15.75 | 15.75 | 15.78 | 15.80 | 15.82 | 15.91 |
| | | 240° | 15.79 | 15.78 | 15.81 | 15.79 | 15.85 | 15.83 |
| | | 250° | 15.77 | 15.79 | 15.77 | 15.87 | 15.84 | 15.91 |
| | | 260° | 15.73 | 15.84 | 15.78 | 15.84 | 15.86 | 15.82 |
| | | 270° | 15.78 | 15.84 | 15.82 | 15.79 | 15.86 | 15.91 |
| | | 280° | 15.74 | 15.81 | 15.78 | 15.84 | 15.80 | 15.82 |
| | | 290° | 15.74 | 15.80 | 15.78 | 15.80 | 15.78 | 15.88 |
| | | 300° | 15.73 | 15.82 | 15.80 | 15.80 | 15.83 | 15.89 |
| | | 310° | 15.80 | 15.84 | 15.77 | 15.81 | 15.79 | 15.88 |
| | | 320° | 15.81 | 15.76 | 15.76 | 15.86 | 15.85 | 15.87 |
| | | 330° | 15.75 | 15.75 | 15.78 | 15.88 | 15.83 | 15.91 |
| | | 340° | 15.76 | 15.76 | 15.79 | 15.79 | 15.82 | 15.83 |
| | | 350° | 15.72 | 15.77 | 15.81 | 15.87 | 15.78 | 15.82 |
| | | 360° | 15.80 | 15.76 | 15.74 | 15.81 | 15.83 | 15.91 |
| Antenna | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
| WLAN Main (5.6GHz) | Stand | 201° | 19.77 | 19.74 | 19.72 | 19.73 | 19.80 | 19.92 |
| | | 210° | 19.76 | 19.80 | 19.72 | 19.72 | 19.76 | 19.89 |
| | | 220° | 19.74 | 19.78 | 19.70 | 19.71 | 19.80 | 19.90 |
| | | 230° | 19.72 | 19.80 | 19.72 | 19.69 | 19.79 | 19.86 |
| | | 240° | 19.71 | 19.78 | 19.71 | 19.66 | 19.83 | 19.92 |
| | | 250° | 19.76 | 19.75 | 19.71 | 19.67 | 19.79 | 19.93 |
| | | 260° | 19.78 | 19.75 | 19.69 | 19.71 | 19.81 | 19.94 |
| | | 270° | 19.70 | 19.78 | 19.77 | 19.69 | 19.81 | 19.88 |
| | | 280° | 19.78 | 19.80 | 19.77 | 19.72 | 19.84 | 19.90 |
| | | 290° | 19.74 | 19.72 | 19.77 | 19.73 | 19.76 | 19.92 |
| | | 300° | 19.72 | 19.71 | 19.68 | 19.64 | 19.84 | 19.86 |
| | | 310° | 19.78 | 19.74 | 19.75 | 19.67 | 19.85 | 19.86 |
| | | 320° | 19.76 | 19.72 | 19.77 | 19.65 | 19.85 | 19.94 |
| | | 330° | 19.74 | 19.75 | 19.71 | 19.68 | 19.84 | 19.92 |
| | | 340° | 19.72 | 19.71 | 19.76 | 19.68 | 19.82 | 19.91 |
| | | 345° | 19.76 | 19.76 | 19.75 | 19.72 | 19.77 | 19.88 |

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| Antenna | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
|---|---|---|---|---|---|---|---|---|
| WLAN Aux (5.6GHz) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 19.86 | 19.85 | 19.79 | 19.74 | 19.87 | 19.88 |
| | | 40° | 19.82 | 19.80 | 19.77 | 19.78 | 19.89 | 19.88 |
| | | 50° | 19.88 | 19.86 | 19.86 | 19.82 | 19.89 | 19.96 |
| | | 60° | 19.90 | 19.87 | 19.77 | 19.77 | 19.93 | 19.90 |
| | | 70° | 19.83 | 19.78 | 19.83 | 19.80 | 19.92 | 19.90 |
| | | 80° | 19.83 | 19.78 | 19.83 | 19.78 | 19.86 | 19.94 |
| | | 90° | 19.86 | 19.78 | 19.82 | 19.80 | 19.87 | 19.87 |
| | | 100° | 19.86 | 19.81 | 19.85 | 19.80 | 19.85 | 19.90 |
| | | 110° | 19.86 | 19.85 | 19.79 | 19.79 | 19.86 | 19.95 |
| | | 120° | 19.82 | 19.79 | 19.77 | 19.79 | 19.85 | 19.92 |
| | | 129° | 19.86 | 19.82 | 19.83 | 19.73 | 19.91 | 19.88 |
| | Non-Notebook | 130° | 16.38 | 16.26 | 16.33 | 16.27 | 16.23 | 16.25 |
| | | 140° | 16.39 | 16.29 | 16.30 | 16.33 | 16.26 | 16.31 |
| | | 150° | 16.42 | 16.28 | 16.28 | 16.32 | 16.27 | 16.30 |
| | | 160° | 16.33 | 16.28 | 16.32 | 16.33 | 16.31 | 16.25 |
| | | 170° | 16.37 | 16.23 | 16.34 | 16.28 | 16.30 | 16.34 |
| | | 180° | 16.36 | 16.27 | 16.35 | 16.33 | 16.24 | 16.26 |
| | | 190° | 16.41 | 16.26 | 16.26 | 16.27 | 16.23 | 16.28 |
| | | 200° | 16.38 | 16.26 | 16.35 | 16.35 | 16.31 | 16.32 |
| | | 210° | 16.42 | 16.28 | 16.27 | 16.33 | 16.22 | 16.26 |
| | | 220° | 16.42 | 16.23 | 16.31 | 16.27 | 16.23 | 16.33 |
| | | 230° | 16.39 | 16.24 | 16.28 | 16.30 | 16.27 | 16.33 |
| | | 240° | 16.34 | 16.27 | 16.26 | 16.33 | 16.24 | 16.29 |
| | | 250° | 16.34 | 16.23 | 16.34 | 16.30 | 16.26 | 16.27 |
| | | 260° | 16.37 | 16.24 | 16.28 | 16.31 | 16.25 | 16.32 |
| | | 270° | 16.37 | 16.22 | 16.35 | 16.32 | 16.28 | 16.32 |
| | | 280° | 16.39 | 16.27 | 16.26 | 16.34 | 16.30 | 16.31 |
| | | 290° | 16.38 | 16.21 | 16.31 | 16.34 | 16.24 | 16.33 |
| | | 300° | 16.39 | 16.27 | 16.30 | 16.29 | 16.25 | 16.27 |
| | | 310° | 16.38 | 16.20 | 16.34 | 16.36 | 16.28 | 16.34 |
| | | 320° | 16.37 | 16.21 | 16.26 | 16.33 | 16.25 | 16.34 |
| | | 330° | 16.34 | 16.25 | 16.35 | 16.33 | 16.31 | 16.30 |
| | | 340° | 16.36 | 16.24 | 16.34 | 16.31 | 16.31 | 16.25 |
| | | 350° | 16.39 | 16.26 | 16.27 | 16.31 | 16.31 | 16.29 |
| | | 360° | 16.42 | 16.22 | 16.26 | 16.30 | 16.23 | 16.25 |
| Antenna | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
| WLAN Aux (5.6GHz) | Stand | 201° | 19.85 | 19.79 | 19.86 | 19.76 | 19.91 | 19.96 |
| | | 210° | 19.87 | 19.85 | 19.83 | 19.73 | 19.88 | 19.95 |
| | | 220° | 19.85 | 19.86 | 19.80 | 19.82 | 19.93 | 19.90 |
| | | 230° | 19.88 | 19.78 | 19.82 | 19.81 | 19.93 | 19.96 |
| | | 240° | 19.85 | 19.86 | 19.79 | 19.75 | 19.90 | 19.95 |
| | | 250° | 19.83 | 19.81 | 19.85 | 19.82 | 19.92 | 19.88 |
| | | 260° | 19.88 | 19.79 | 19.83 | 19.81 | 19.87 | 19.96 |
| | | 270° | 19.90 | 19.86 | 19.84 | 19.73 | 19.92 | 19.87 |
| | | 280° | 19.85 | 19.78 | 19.82 | 19.77 | 19.86 | 19.88 |
| | | 290° | 19.83 | 19.84 | 19.86 | 19.78 | 19.93 | 19.87 |
| | | 300° | 19.87 | 19.84 | 19.85 | 19.79 | 19.85 | 19.88 |
| | | 310° | 19.87 | 19.84 | 19.77 | 19.82 | 19.85 | 19.89 |
| | | 320° | 19.86 | 19.83 | 19.79 | 19.75 | 19.93 | 19.88 |
| | | 330° | 19.88 | 19.82 | 19.85 | 19.82 | 19.93 | 19.88 |
| | | 340° | 19.89 | 19.86 | 19.82 | 19.80 | 19.87 | 19.94 |
| | | 345° | 19.82 | 19.87 | 19.86 | 19.74 | 19.94 | 19.91 |

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| Antenna | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
|---|---|---|---|---|---|---|---|---|
| WLAN Main (5.8GHz) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 19.93 | 19.79 | 19.85 | 19.88 | 19.82 | 17.40 |
| | | 40° | 19.92 | 19.83 | 19.82 | 19.83 | 19.87 | 17.35 |
| | | 50° | 19.92 | 19.85 | 19.87 | 19.87 | 19.80 | 17.34 |
| | | 60° | 19.88 | 19.80 | 19.79 | 19.90 | 19.87 | 17.36 |
| | | 70° | 19.86 | 19.84 | 19.86 | 19.89 | 19.85 | 17.34 |
| | | 80° | 19.92 | 19.78 | 19.80 | 19.84 | 19.87 | 17.32 |
| | | 90° | 19.87 | 19.77 | 19.84 | 19.83 | 19.80 | 17.35 |
| | | 100° | 19.94 | 19.77 | 19.80 | 19.87 | 19.87 | 17.32 |
| | | 110° | 19.94 | 19.84 | 19.88 | 19.83 | 19.81 | 17.40 |
| | | 120° | 19.89 | 19.81 | 19.82 | 19.90 | 19.81 | 17.37 |
| | | 129° | 19.88 | 19.82 | 19.85 | 19.86 | 19.80 | 17.33 |
| | Non-Notebook | 130° | 15.83 | 15.76 | 15.91 | 15.77 | 15.75 | 15.79 |
| | | 140° | 15.79 | 15.80 | 15.84 | 15.76 | 15.76 | 15.77 |
| | | 150° | 15.83 | 15.74 | 15.92 | 15.77 | 15.77 | 15.86 |
| | | 160° | 15.77 | 15.76 | 15.87 | 15.76 | 15.78 | 15.83 |
| | | 170° | 15.79 | 15.76 | 15.85 | 15.72 | 15.81 | 15.77 |
| | | 180° | 15.82 | 15.73 | 15.92 | 15.74 | 15.75 | 15.80 |
| | | 190° | 15.82 | 15.80 | 15.93 | 15.77 | 15.72 | 15.83 |
| | | 200° | 15.78 | 15.75 | 15.92 | 15.78 | 15.75 | 15.82 |
| | | 210° | 15.82 | 15.72 | 15.84 | 15.79 | 15.78 | 15.82 |
| | | 220° | 15.83 | 15.71 | 15.92 | 15.77 | 15.73 | 15.77 |
| | | 230° | 15.80 | 15.71 | 15.84 | 15.79 | 15.74 | 15.84 |
| | | 240° | 15.79 | 15.76 | 15.93 | 15.76 | 15.72 | 15.81 |
| | | 250° | 15.77 | 15.76 | 15.89 | 15.73 | 15.73 | 15.78 |
| | | 260° | 15.76 | 15.73 | 15.89 | 15.73 | 15.78 | 15.85 |
| | | 270° | 15.78 | 15.74 | 15.93 | 15.81 | 15.79 | 15.79 |
| | | 280° | 15.79 | 15.75 | 15.84 | 15.76 | 15.74 | 15.81 |
| | | 290° | 15.82 | 15.75 | 15.84 | 15.80 | 15.72 | 15.82 |
| | | 300° | 15.77 | 15.74 | 15.84 | 15.77 | 15.80 | 15.85 |
| | | 310° | 15.80 | 15.77 | 15.84 | 15.74 | 15.73 | 15.85 |
| | | 320° | 15.77 | 15.78 | 15.86 | 15.72 | 15.80 | 15.84 |
| | | 330° | 15.74 | 15.80 | 15.86 | 15.77 | 15.78 | 15.85 |
| | | 340° | 15.77 | 15.79 | 15.84 | 15.75 | 15.74 | 15.82 |
| | | 350° | 15.76 | 15.78 | 15.85 | 15.72 | 15.80 | 15.79 |
| | | 360° | 15.79 | 15.80 | 15.87 | 15.74 | 15.72 | 15.86 |
| Antenna | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
| WLAN Main (5.8GHz) | Stand | 201° | 19.85 | 19.86 | 19.88 | 19.82 | 19.83 | 17.31 |
| | | 210° | 19.85 | 19.86 | 19.87 | 19.82 | 19.82 | 17.38 |
| | | 220° | 19.92 | 19.83 | 19.87 | 19.89 | 19.79 | 17.40 |
| | | 230° | 19.85 | 19.81 | 19.80 | 19.84 | 19.78 | 17.32 |
| | | 240° | 19.87 | 19.80 | 19.82 | 19.82 | 19.79 | 17.38 |
| | | 250° | 19.86 | 19.80 | 19.79 | 19.81 | 19.83 | 17.39 |
| | | 260° | 19.91 | 19.82 | 19.87 | 19.87 | 19.82 | 17.39 |
| | | 270° | 19.91 | 19.84 | 19.79 | 19.81 | 19.87 | 17.37 |
| | | 280° | 19.93 | 19.81 | 19.79 | 19.84 | 19.85 | 17.33 |
| | | 290° | 19.91 | 19.79 | 19.84 | 19.82 | 19.78 | 17.32 |
| | | 300° | 19.88 | 19.77 | 19.82 | 19.90 | 19.83 | 17.32 |
| | | 310° | 19.85 | 19.80 | 19.85 | 19.87 | 19.79 | 17.32 |
| | | 320° | 19.94 | 19.82 | 19.86 | 19.89 | 19.86 | 17.35 |
| | | 330° | 19.90 | 19.86 | 19.81 | 19.88 | 19.78 | 17.38 |
| | | 340° | 19.90 | 19.85 | 19.80 | 19.83 | 19.78 | 17.34 |
| | | 345° | 19.90 | 19.86 | 19.83 | 19.82 | 19.78 | 17.36 |

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| Antenna | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
|---|---|---|---|---|---|---|---|---|
| WLAN Aux (5.8GHz) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 19.87 | 19.90 | 19.83 | 19.87 | 19.80 | 17.33 |
| | | 40° | 19.83 | 19.86 | 19.81 | 19.91 | 19.82 | 17.38 |
| | | 50° | 19.88 | 19.86 | 19.75 | 19.87 | 19.79 | 17.34 |
| | | 60° | 19.89 | 19.93 | 19.77 | 19.90 | 19.78 | 17.39 |
| | | 70° | 19.92 | 19.91 | 19.78 | 19.86 | 19.86 | 17.38 |
| | | 80° | 19.85 | 19.85 | 19.77 | 19.93 | 19.81 | 17.31 |
| | | 90° | 19.83 | 19.92 | 19.79 | 19.94 | 19.79 | 17.39 |
| | | 100° | 19.87 | 19.93 | 19.75 | 19.92 | 19.80 | 17.34 |
| | | 110° | 19.85 | 19.92 | 19.76 | 19.89 | 19.84 | 17.31 |
| | | 120° | 19.92 | 19.88 | 19.78 | 19.94 | 19.86 | 17.40 |
| | | 129° | 19.83 | 19.93 | 19.80 | 19.89 | 19.82 | 17.32 |
| | Non-Notebook | 130° | 16.26 | 16.35 | 16.26 | 16.40 | 16.41 | 16.39 |
| | | 140° | 16.32 | 16.28 | 16.24 | 16.32 | 16.41 | 16.33 |
| | | 150° | 16.32 | 16.36 | 16.21 | 16.36 | 16.43 | 16.38 |
| | | 160° | 16.33 | 16.33 | 16.23 | 16.32 | 16.35 | 16.38 |
| | | 170° | 16.29 | 16.32 | 16.23 | 16.39 | 16.35 | 16.41 |
| | | 180° | 16.31 | 16.30 | 16.28 | 16.33 | 16.36 | 16.34 |
| | | 190° | 16.30 | 16.35 | 16.25 | 16.36 | 16.35 | 16.37 |
| | | 200° | 16.29 | 16.29 | 16.19 | 16.35 | 16.36 | 16.39 |
| | | 210° | 16.35 | 16.34 | 16.21 | 16.32 | 16.37 | 16.34 |
| | | 220° | 16.26 | 16.30 | 16.19 | 16.35 | 16.35 | 16.36 |
| | | 230° | 16.28 | 16.31 | 16.25 | 16.33 | 16.40 | 16.34 |
| | | 240° | 16.30 | 16.36 | 16.24 | 16.39 | 16.43 | 16.38 |
| | | 250° | 16.28 | 16.34 | 16.28 | 16.37 | 16.43 | 16.42 |
| | | 260° | 16.35 | 16.28 | 16.25 | 16.33 | 16.35 | 16.35 |
| | | 270° | 16.35 | 16.33 | 16.24 | 16.36 | 16.39 | 16.38 |
| | | 280° | 16.32 | 16.32 | 16.26 | 16.35 | 16.44 | 16.34 |
| | | 290° | 16.28 | 16.30 | 16.27 | 16.37 | 16.38 | 16.40 |
| | | 300° | 16.35 | 16.35 | 16.21 | 16.39 | 16.38 | 16.41 |
| | | 310° | 16.27 | 16.31 | 16.19 | 16.32 | 16.39 | 16.33 |
| | | 320° | 16.34 | 16.28 | 16.27 | 16.40 | 16.41 | 16.35 |
| | | 330° | 16.27 | 16.32 | 16.19 | 16.39 | 16.44 | 16.35 |
| | | 340° | 16.34 | 16.33 | 16.26 | 16.36 | 16.35 | 16.40 |
| | | 350° | 16.27 | 16.32 | 16.19 | 16.36 | 16.44 | 16.35 |
| | | 360° | 16.30 | 16.33 | 16.27 | 16.32 | 16.39 | 16.34 |
| Antenna | Operation mode | Lid angle | 802.11a | 802.11n(20) | 802.11n(40) | 802.11ac(20) | 802.11ac(40) | 802.11ac(80) |
| WLAN Aux (5.8GHz) | Stand | 201° | 19.88 | 19.84 | 19.80 | 19.94 | 19.84 | 17.36 |
| | | 210° | 19.83 | 19.93 | 19.83 | 19.87 | 19.78 | 17.32 |
| | | 220° | 19.89 | 19.91 | 19.82 | 19.86 | 19.78 | 17.38 |
| | | 230° | 19.88 | 19.93 | 19.75 | 19.87 | 19.86 | 17.39 |
| | | 240° | 19.89 | 19.92 | 19.83 | 19.87 | 19.85 | 17.32 |
| | | 250° | 19.91 | 19.87 | 19.82 | 19.86 | 19.83 | 17.40 |
| | | 260° | 19.86 | 19.90 | 19.82 | 19.85 | 19.86 | 17.31 |
| | | 270° | 19.89 | 19.85 | 19.75 | 19.89 | 19.78 | 17.36 |
| | | 280° | 19.86 | 19.90 | 19.83 | 19.86 | 19.83 | 17.31 |
| | | 290° | 19.83 | 19.85 | 19.82 | 19.92 | 19.79 | 17.38 |
| | | 300° | 19.87 | 19.85 | 19.80 | 19.94 | 19.77 | 17.34 |
| | | 310° | 19.83 | 19.90 | 19.80 | 19.87 | 19.80 | 17.32 |
| | | 320° | 19.88 | 19.92 | 19.75 | 19.87 | 19.77 | 17.40 |
| | | 330° | 19.87 | 19.85 | 19.80 | 19.91 | 19.85 | 17.36 |
| | | 340° | 19.83 | 19.84 | 19.75 | 19.94 | 19.78 | 17.31 |
| | | 345° | 19.92 | 19.87 | 19.82 | 19.85 | 19.83 | 17.32 |

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| Antenna | Operation mode | Lid angle | WCDMA | HSDPA | HSPA | HSPA+ | DC-HSDPA |
|---|---|---|---|---|---|---|---|
| WWAN TX (WCDMA Band II) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 23.80 | 23.05 | 23.08 | 21.68 | 21.45 |
| | | 40° | 23.62 | 23.11 | 23.07 | 21.69 | 21.53 |
| | | 50° | 23.67 | 22.96 | 23.00 | 21.76 | 21.52 |
| | | 60° | 23.80 | 23.10 | 23.07 | 21.63 | 21.49 |
| | | 70° | 23.69 | 22.95 | 23.09 | 21.60 | 21.49 |
| | | 80° | 23.66 | 23.01 | 23.02 | 21.66 | 21.35 |
| | | 90° | 23.72 | 23.11 | 23.12 | 21.77 | 21.40 |
| | | 100° | 23.72 | 23.03 | 23.07 | 21.67 | 21.48 |
| | | 110° | 23.80 | 23.08 | 23.02 | 21.73 | 21.40 |
| | | 120° | 23.70 | 23.02 | 23.05 | 21.60 | 21.52 |
| | | 129° | 23.71 | 23.06 | 23.10 | 21.61 | 21.54 |
| | Non-Notebook | 130° | 16.23 | 15.69 | 15.74 | 14.63 | 14.63 |
| | | 140° | 16.29 | 15.84 | 15.81 | 14.65 | 14.49 |
| | | 150° | 16.41 | 15.76 | 15.80 | 14.69 | 14.66 |
| | | 160° | 16.24 | 15.80 | 15.75 | 14.65 | 14.61 |
| | | 170° | 16.28 | 15.68 | 15.84 | 14.56 | 14.54 |
| | | 180° | 16.40 | 15.76 | 15.73 | 14.66 | 14.57 |
| | | 190° | 16.26 | 15.67 | 15.71 | 14.61 | 14.51 |
| | | 200° | 16.32 | 15.74 | 15.80 | 14.69 | 14.58 |
| | | 210° | 16.42 | 15.69 | 15.84 | 14.68 | 14.55 |
| | | 220° | 16.26 | 15.81 | 15.87 | 14.56 | 14.58 |
| | | 230° | 16.25 | 15.68 | 15.76 | 14.58 | 14.48 |
| | | 240° | 16.27 | 15.82 | 15.81 | 14.65 | 14.63 |
| | | 250° | 16.25 | 15.78 | 15.85 | 14.62 | 14.48 |
| | | 260° | 16.28 | 15.75 | 15.77 | 14.59 | 14.52 |
| | | 270° | 16.28 | 15.71 | 15.70 | 14.72 | 14.49 |
| | | 280° | 16.32 | 15.69 | 15.85 | 14.70 | 14.60 |
| | | 290° | 16.36 | 15.74 | 15.87 | 14.63 | 14.61 |
| | | 300° | 16.35 | 15.81 | 15.75 | 14.62 | 14.48 |
| | | 310° | 16.37 | 15.69 | 15.77 | 14.61 | 14.54 |
| | | 320° | 16.25 | 15.85 | 15.76 | 14.64 | 14.54 |
| | | 330° | 16.32 | 15.66 | 15.77 | 14.56 | 14.54 |
| | | 340° | 16.33 | 15.78 | 15.80 | 14.57 | 14.53 |
| | | 350° | 16.26 | 15.82 | 15.69 | 14.56 | 14.54 |
| | | 360° | 16.28 | 15.78 | 15.69 | 14.71 | 14.62 |

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| Antenna | Operation mode | Lid angle | WCDMA | HSDPA | HSPA | HSPA+ | DC-HSDPA |
|---|---|---|---|---|---|---|---|
| WWAN TX (WCDMA Band II) | Stand | 201° | 23.66 | 22.97 | 23.00 | 21.63 | 21.38 |
| | | 210° | 23.80 | 23.06 | 23.05 | 21.68 | 21.45 |
| | | 220° | 23.69 | 23.01 | 23.06 | 21.75 | 21.36 |
| | | 230° | 23.75 | 22.98 | 22.95 | 21.65 | 21.52 |
| | | 240° | 23.70 | 23.06 | 22.94 | 21.78 | 21.54 |
| | | 250° | 23.77 | 23.02 | 23.10 | 21.62 | 21.49 |
| | | 260° | 23.79 | 23.12 | 23.10 | 21.66 | 21.36 |
| | | 270° | 23.75 | 22.99 | 22.99 | 21.72 | 21.46 |
| | | 280° | 23.64 | 23.09 | 23.03 | 21.68 | 21.53 |
| | | 290° | 23.63 | 23.04 | 23.04 | 21.62 | 21.41 |
| | | 300° | 23.73 | 23.12 | 23.12 | 21.68 | 21.52 |
| | | 310° | 23.69 | 22.97 | 23.07 | 21.68 | 21.50 |
| | | 320° | 23.70 | 22.94 | 23.03 | 21.77 | 21.48 |
| | | 330° | 23.73 | 23.06 | 23.08 | 21.74 | 21.53 |
| | | 340° | 23.75 | 23.03 | 22.93 | 21.69 | 21.50 |
| | | 345° | 23.66 | 22.96 | 23.05 | 21.60 | 21.53 |

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| Antenna | Operation mode | Lid angle | WCDMA | HSDPA | HSPA | HSPA+ | DC-HSDPA |
|---|---|---|---|---|---|---|---|
| WWAN TX (WCDMA Band IV) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 23.39 | 22.98 | 23.02 | 22.92 | 22.47 |
| | | 40° | 23.49 | 22.91 | 22.94 | 22.95 | 22.48 |
| | | 50° | 23.42 | 22.99 | 22.85 | 22.96 | 22.37 |
| | | 60° | 23.39 | 23.01 | 22.86 | 22.98 | 22.36 |
| | | 70° | 23.32 | 23.03 | 23.03 | 22.85 | 22.42 |
| | | 80° | 23.36 | 23.06 | 23.00 | 22.87 | 22.44 |
| | | 90° | 23.34 | 23.02 | 22.98 | 22.91 | 22.38 |
| | | 100° | 23.40 | 23.03 | 22.88 | 22.86 | 22.42 |
| | | 110° | 23.44 | 22.91 | 22.91 | 22.90 | 22.36 |
| | | 120° | 23.38 | 23.04 | 22.92 | 22.86 | 22.36 |
| | | 129° | 23.32 | 22.89 | 22.91 | 22.85 | 22.38 |
| | Non-Notebook | 130° | 18.13 | 17.86 | 17.91 | 18.11 | 18.02 |
| | | 140° | 18.14 | 18.02 | 17.99 | 18.03 | 17.93 |
| | | 150° | 18.09 | 18.03 | 17.91 | 18.13 | 18.06 |
| | | 160° | 18.23 | 17.87 | 18.06 | 18.11 | 18.02 |
| | | 170° | 18.27 | 18.03 | 18.06 | 18.10 | 18.05 |
| | | 180° | 18.14 | 17.99 | 17.88 | 18.15 | 18.07 |
| | | 190° | 18.13 | 18.00 | 17.96 | 17.99 | 18.10 |
| | | 200° | 18.14 | 17.90 | 17.98 | 18.06 | 18.06 |
| | | 210° | 18.26 | 18.04 | 17.91 | 18.06 | 18.03 |
| | | 220° | 18.13 | 17.87 | 18.07 | 18.06 | 17.95 |
| | | 230° | 18.20 | 17.95 | 17.92 | 18.00 | 18.10 |
| | | 240° | 18.25 | 18.03 | 17.96 | 18.10 | 18.07 |
| | | 250° | 18.09 | 17.88 | 18.03 | 18.11 | 18.03 |
| | | 260° | 18.21 | 18.04 | 18.02 | 18.10 | 18.06 |
| | | 270° | 18.18 | 17.98 | 18.07 | 18.12 | 18.07 |
| | | 280° | 18.21 | 18.05 | 18.04 | 18.15 | 18.01 |
| | | 290° | 18.19 | 17.95 | 17.99 | 18.11 | 18.09 |
| | | 300° | 18.21 | 18.00 | 18.00 | 1.00 | 18.10 |
| | | 310° | 18.21 | 18.00 | 17.91 | 18.03 | 18.03 |
| | | 320° | 18.24 | 17.86 | 17.99 | 18.00 | 18.04 |
| | | 330° | 18.22 | 17.93 | 18.05 | 18.17 | 18.03 |
| | | 340° | 18.17 | 17.98 | 18.04 | 17.99 | 18.10 |
| | | 350° | 18.23 | 17.98 | 17.92 | 18.14 | 17.92 |
| | | 360° | 18.25 | 17.98 | 17.93 | 18.09 | 18.03 |

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| Antenna | Operation mode | Lid angle | WCDMA | HSDPA | HSPA | HSPA+ | DC-HSDPA |
|---|---|---|---|---|---|---|---|
| WWAN TX (WCDMA Band IV) | Stand | 201° | 23.43 | 22.91 | 23.02 | 22.91 | 22.44 |
| | | 210° | 23.40 | 22.96 | 22.88 | 22.97 | 22.47 |
| | | 220° | 23.41 | 22.93 | 22.91 | 23.00 | 22.44 |
| | | 230° | 23.42 | 22.97 | 23.01 | 22.99 | 22.49 |
| | | 240° | 23.33 | 22.89 | 22.92 | 22.93 | 22.42 |
| | | 250° | 23.35 | 22.89 | 22.84 | 23.01 | 22.47 |
| | | 260° | 23.43 | 23.03 | 23.01 | 22.93 | 22.36 |
| | | 270° | 23.50 | 22.88 | 22.85 | 22.84 | 22.45 |
| | | 280° | 23.43 | 23.00 | 22.91 | 22.86 | 22.35 |
| | | 290° | 23.48 | 22.99 | 22.88 | 22.97 | 22.49 |
| | | 300° | 23.41 | 23.04 | 22.88 | 22.90 | 22.46 |
| | | 310° | 23.38 | 23.00 | 22.92 | 22.96 | 22.39 |
| | | 320° | 23.50 | 22.92 | 22.97 | 22.91 | 22.40 |
| | | 330° | 23.38 | 23.01 | 22.96 | 22.84 | 22.35 |
| | | 340° | 23.41 | 22.90 | 22.92 | 22.97 | 22.47 |
| | | 345° | 23.37 | 22.94 | 22.89 | 22.93 | 22.41 |

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| Antenna | Operation mode | Lid angle | WCDMA | HSDPA | HSPA | HSPA+ | DC-HSDPA |
|---|---|---|---|---|---|---|---|
| WWAN TX (WCDMA Band V) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 23.85 | 23.29 | 22.66 | 23.41 | 22.33 |
| | | 40° | 23.86 | 23.31 | 22.58 | 23.41 | 22.38 |
| | | 50° | 23.95 | 23.4 | 22.59 | 23.30 | 22.39 |
| | | 60° | 23.97 | 23.43 | 22.73 | 23.36 | 22.33 |
| | | 70° | 23.81 | 23.44 | 22.63 | 23.32 | 22.43 |
| | | 80° | 23.88 | 23.34 | 22.56 | 23.35 | 22.43 |
| | | 90° | 23.96 | 23.27 | 22.62 | 23.28 | 22.41 |
| | | 100° | 23.92 | 23.41 | 22.57 | 23.31 | 22.37 |
| | | 110° | 23.82 | 23.41 | 22.54 | 23.38 | 22.42 |
| | | 120° | 23.92 | 23.46 | 22.57 | 23.41 | 22.31 |
| | | 129° | 23.9 | 23.29 | 22.71 | 23.36 | 22.32 |
| | Non-Notebook | 130° | 21.31 | 21.39 | 21.36 | 21.31 | 21.26 |
| | | 140° | 21.3 | 21.23 | 21.32 | 21.14 | 21.25 |
| | | 150° | 21.39 | 21.23 | 21.39 | 21.17 | 21.28 |
| | | 160° | 21.31 | 21.38 | 21.37 | 21.13 | 21.30 |
| | | 170° | 21.4 | 21.27 | 21.27 | 21.29 | 21.31 |
| | | 180° | 21.32 | 21.31 | 21.38 | 21.27 | 21.39 |
| | | 190° | 21.3 | 21.23 | 21.24 | 21.19 | 21.23 |
| | | 200° | 21.39 | 21.21 | 21.21 | 21.29 | 21.33 |
| | | 210° | 21.46 | 21.27 | 21.24 | 21.14 | 21.27 |
| | | 220° | 21.48 | 21.33 | 21.3 | 21.28 | 21.30 |
| | | 230° | 21.36 | 21.32 | 21.35 | 21.27 | 21.26 |
| | | 240° | 21.42 | 21.23 | 21.35 | 21.20 | 21.31 |
| | | 250° | 21.42 | 21.34 | 21.39 | 21.27 | 21.29 |
| | | 260° | 21.36 | 21.29 | 21.32 | 21.17 | 21.29 |
| | | 270° | 21.45 | 21.28 | 21.21 | 21.13 | 21.34 |
| | | 280° | 21.29 | 21.22 | 21.38 | 21.14 | 21.37 |
| | | 290° | 21.42 | 21.27 | 21.39 | 21.26 | 21.33 |
| | | 300° | 21.31 | 21.27 | 21.22 | 21.26 | 21.36 |
| | | 310° | 21.35 | 21.28 | 21.34 | 21.14 | 21.24 |
| | | 320° | 21.47 | 21.29 | 21.34 | 21.23 | 21.21 |
| | | 330° | 21.29 | 21.34 | 21.33 | 21.13 | 21.23 |
| | | 340° | 21.29 | 21.32 | 21.31 | 21.14 | 21.36 |
| | | 350° | 21.29 | 21.3 | 21.28 | 21.24 | 21.33 |
| | | 360° | 21.35 | 21.22 | 21.32 | 21.26 | 21.37 |

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| Antenna | Operation mode | Lid angle | WCDMA | HSDPA | HSPA | HSPA+ | DC-HSDPA |
|---|---|---|---|---|---|---|---|
| WWAN TX (WCDMA Band V) | Stand | 201° | 23.93 | 23.32 | 22.56 | 23.37 | 22.47 |
| | | 210° | 23.82 | 23.44 | 22.58 | 23.31 | 22.49 |
| | | 220° | 23.97 | 23.37 | 22.64 | 23.39 | 22.47 |
| | | 230° | 23.95 | 23.28 | 22.66 | 23.38 | 22.49 |
| | | 240° | 23.88 | 23.32 | 22.56 | 23.34 | 22.40 |
| | | 250° | 23.95 | 23.4 | 22.54 | 23.35 | 22.39 |
| | | 260° | 23.95 | 23.43 | 22.64 | 23.29 | 22.37 |
| | | 270° | 23.86 | 23.39 | 22.72 | 23.31 | 22.45 |
| | | 280° | 23.96 | 23.31 | 22.71 | 23.40 | 22.48 |
| | | 290° | 23.87 | 23.38 | 22.69 | 23.33 | 22.47 |
| | | 300° | 23.97 | 23.33 | 22.72 | 23.36 | 22.41 |
| | | 310° | 23.79 | 23.43 | 22.57 | 23.45 | 22.42 |
| | | 320° | 23.95 | 23.45 | 22.57 | 23.44 | 22.49 |
| | | 330° | 23.91 | 23.27 | 22.67 | 23.29 | 22.46 |
| | | 340° | 23.84 | 23.38 | 22.68 | 23.37 | 22.37 |
| | | 345° | 23.88 | 23.35 | 22.69 | 23.43 | 22.35 |

| | | | 20MHz | | 15MHz | | 10MHz | | 5MHz | | 3MHz | | 1.4MHz | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B2) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 23.75 | 22.90 | 23.75 | 22.89 | 23.55 | 22.95 | 23.37 | 16.36 | 23.43 | 22.75 | 23.23 | 22.45 |
| | | 40° | 23.75 | 22.94 | 23.66 | 22.73 | 23.69 | 22.94 | 23.37 | 16.40 | 23.36 | 22.77 | 23.18 | 22.55 |
| | | 50° | 23.78 | 22.82 | 23.74 | 22.77 | 23.68 | 22.80 | 23.53 | 16.28 | 23.43 | 22.76 | 23.20 | 22.42 |
| | | 60° | 23.86 | 22.79 | 23.67 | 22.78 | 23.71 | 22.88 | 23.55 | 16.24 | 23.34 | 22.77 | 23.18 | 22.52 |
| | | 70° | 23.72 | 22.82 | 23.64 | 22.77 | 23.61 | 22.89 | 23.52 | 16.30 | 23.43 | 22.76 | 23.20 | 22.48 |
| | | 80° | 23.77 | 22.80 | 23.66 | 22.74 | 23.66 | 22.82 | 23.47 | 16.40 | 23.52 | 22.70 | 23.25 | 22.55 |
| | | 90° | 23.75 | 22.88 | 23.76 | 22.79 | 23.53 | 22.83 | 23.43 | 16.38 | 23.53 | 22.87 | 23.19 | 22.41 |
| | | 100° | 23.74 | 22.94 | 23.68 | 22.88 | 23.54 | 22.83 | 23.39 | 16.38 | 23.38 | 22.73 | 23.24 | 22.52 |
| | | 110° | 23.73 | 22.86 | 23.74 | 22.84 | 23.60 | 22.91 | 23.39 | 16.26 | 23.36 | 22.78 | 23.31 | 22.44 |
| | | 120° | 23.79 | 22.81 | 23.72 | 22.85 | 23.71 | 22.83 | 23.56 | 16.23 | 23.49 | 22.76 | 23.18 | 22.37 |
| | | 129° | 23.73 | 22.82 | 23.63 | 22.71 | 23.57 | 22.85 | 23.51 | 16.28 | 23.43 | 22.78 | 23.22 | 22.37 |
| | Non-Notebook | 130° | 16.23 | 16.31 | 16.23 | 16.26 | 16.28 | 16.24 | 22.88 | 16.37 | 16.23 | 16.24 | 16.29 | 16.19 |
| | | 140° | 16.34 | 16.23 | 16.28 | 16.20 | 16.38 | 16.28 | 22.77 | 16.24 | 16.37 | 16.34 | 16.25 | 16.21 |
| | | 150° | 16.30 | 16.38 | 16.26 | 16.24 | 16.25 | 16.31 | 22.92 | 16.25 | 16.38 | 16.39 | 16.38 | 16.24 |
| | | 160° | 16.39 | 16.36 | 16.22 | 16.33 | 16.37 | 16.23 | 22.75 | 16.31 | 16.39 | 16.24 | 16.26 | 16.27 |
| | | 170° | 16.27 | 16.25 | 16.22 | 16.34 | 16.22 | 16.38 | 22.76 | 16.38 | 16.39 | 16.22 | 16.37 | 16.29 |
| | | 180° | 16.29 | 16.38 | 16.38 | 16.24 | 16.28 | 16.35 | 22.75 | 16.24 | 16.24 | 16.31 | 16.36 | 16.20 |
| | | 190° | 16.28 | 16.39 | 16.27 | 16.35 | 16.27 | 16.31 | 22.79 | 16.33 | 16.23 | 16.22 | 16.29 | 16.37 |
| | | 200° | 16.40 | 16.26 | 16.28 | 16.33 | 16.28 | 16.31 | 22.80 | 16.31 | 16.21 | 16.31 | 16.27 | 16.24 |
| | | 210° | 16.30 | 16.27 | 16.38 | 16.33 | 16.26 | 16.29 | 22.80 | 16.22 | 16.33 | 16.24 | 16.33 | 16.19 |
| | | 220° | 16.32 | 16.35 | 16.27 | 16.24 | 16.35 | 16.38 | 22.78 | 16.27 | 16.40 | 16.39 | 16.32 | 16.35 |
| | | 230° | 16.22 | 16.21 | 16.34 | 16.29 | 16.32 | 16.39 | 22.80 | 16.32 | 16.24 | 16.25 | 16.23 | 16.23 |
| | | 240° | 16.26 | 16.38 | 16.35 | 16.38 | 16.26 | 16.22 | 22.80 | 16.33 | 16.40 | 16.31 | 16.23 | 16.24 |
| | | 250° | 16.41 | 16.23 | 16.33 | 16.25 | 16.31 | 16.36 | 22.89 | 16.22 | 16.37 | 16.26 | 16.31 | 16.36 |
| | | 260° | 16.39 | 16.32 | 16.29 | 16.39 | 16.20 | 16.36 | 22.87 | 16.27 | 16.38 | 16.25 | 16.32 | 16.29 |
| | | 270° | 16.27 | 16.36 | 16.28 | 16.21 | 16.28 | 16.20 | 22.81 | 16.25 | 16.29 | 16.32 | 16.34 | 16.22 |
| | | 280° | 16.34 | 16.35 | 16.22 | 16.36 | 16.32 | 16.30 | 22.86 | 16.37 | 16.29 | 16.32 | 16.30 | 16.29 |
| | | 290° | 16.38 | 16.31 | 16.25 | 16.30 | 16.29 | 16.25 | 22.87 | 16.21 | 16.28 | 16.27 | 16.34 | 16.24 |
| | | 300° | 16.41 | 16.38 | 16.27 | 16.23 | 16.34 | 16.30 | 22.75 | 16.35 | 16.23 | 16.32 | 16.28 | 16.27 |
| | | 310° | 16.31 | 16.34 | 16.23 | 16.22 | 16.20 | 16.28 | 22.76 | 16.28 | 16.39 | 16.22 | 16.23 | 16.20 |
| | | 320° | 16.30 | 16.26 | 16.28 | 16.28 | 16.23 | 16.30 | 22.77 | 16.26 | 16.38 | 16.36 | 16.32 | 16.35 |
| | | 330° | 16.41 | 16.30 | 16.39 | 16.25 | 16.33 | 16.36 | 22.83 | 16.22 | 16.37 | 16.26 | 16.22 | 16.36 |
| | | 340° | 16.37 | 16.38 | 16.34 | 16.38 | 16.34 | 16.34 | 22.77 | 16.24 | 16.22 | 16.29 | 16.40 | 16.34 |
| | | 350° | 16.38 | 16.35 | 16.34 | 16.28 | 16.19 | 16.26 | 22.74 | 16.23 | 16.34 | 16.37 | 16.37 | 16.32 |
| | | 360° | 16.33 | 16.33 | 16.37 | 16.20 | 16.26 | 16.24 | 22.82 | 16.34 | 16.40 | 16.22 | 16.32 | 16.26 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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| | | | 20MHz | | 15MHz | | 10MHz | | 5MHz | | 3MHz | | 1.4MHz | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B2) | Stand | 201° | 23.79 | 22.83 | 23.65 | 22.78 | 23.58 | 22.84 | 23.53 | 16.34 | 23.39 | 22.87 | 23.34 | 22.45 |
| | | 210° | 23.78 | 22.95 | 23.63 | 22.80 | 23.54 | 22.85 | 23.40 | 16.29 | 23.35 | 22.72 | 23.33 | 22.44 |
| | | 220° | 23.70 | 22.96 | 23.70 | 22.73 | 23.52 | 22.88 | 23.50 | 16.29 | 23.39 | 22.77 | 23.31 | 22.39 |
| | | 230° | 23.78 | 22.84 | 23.77 | 22.74 | 23.66 | 22.93 | 23.41 | 16.27 | 23.46 | 22.68 | 23.15 | 22.48 |
| | | 240° | 23.69 | 22.80 | 23.62 | 22.85 | 23.61 | 22.77 | 23.37 | 16.26 | 23.42 | 22.69 | 23.29 | 22.38 |
| | | 250° | 23.81 | 22.92 | 23.77 | 22.79 | 23.55 | 22.87 | 23.47 | 16.39 | 23.53 | 22.78 | 23.18 | 22.42 |
| | | 260° | 23.68 | 22.93 | 23.64 | 22.88 | 23.57 | 22.78 | 23.56 | 16.40 | 23.37 | 22.72 | 23.33 | 22.45 |
| | | 270° | 23.85 | 22.92 | 23.75 | 22.72 | 23.59 | 22.95 | 23.53 | 16.29 | 23.43 | 22.77 | 23.15 | 22.51 |
| | | 280° | 23.70 | 22.90 | 23.65 | 22.82 | 23.70 | 22.89 | 23.49 | 16.37 | 23.53 | 22.77 | 23.32 | 22.49 |
| | | 290° | 23.82 | 22.95 | 23.64 | 22.80 | 23.65 | 22.85 | 23.40 | 16.39 | 23.41 | 22.85 | 23.16 | 22.54 |
| | | 300° | 23.83 | 22.80 | 23.67 | 22.75 | 23.67 | 22.77 | 23.56 | 16.33 | 23.51 | 22.86 | 23.20 | 22.36 |
| | | 310° | 23.84 | 22.87 | 23.79 | 22.78 | 23.66 | 22.76 | 23.50 | 16.29 | 23.42 | 22.87 | 23.30 | 22.44 |
| | | 320° | 23.69 | 22.81 | 23.65 | 22.80 | 23.63 | 22.81 | 23.37 | 16.37 | 23.51 | 22.83 | 23.34 | 22.45 |
| | | 330° | 23.73 | 22.84 | 23.60 | 22.82 | 23.70 | 22.86 | 23.49 | 16.34 | 23.50 | 22.81 | 23.26 | 22.45 |
| | | 340° | 23.78 | 22.86 | 23.79 | 22.75 | 23.61 | 22.76 | 23.53 | 16.39 | 23.49 | 22.77 | 23.28 | 22.51 |
| | | 345° | 23.84 | 22.88 | 23.70 | 22.85 | 23.57 | 22.95 | 23.46 | 16.31 | 23.53 | 22.86 | 23.26 | 22.47 |

| | | | 20MHz | | 15MHz | | 10MHz | | 5MHz | | 3MHz | | 1.4MHz | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B4) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 23.53 | 22.78 | 23.52 | 22.79 | 23.55 | 22.89 | 23.47 | 22.78 | 23.46 | 22.72 | 23.62 | 22.75 |
| | | 40° | 23.57 | 22.77 | 23.49 | 22.78 | 23.55 | 22.78 | 23.48 | 22.94 | 23.38 | 22.83 | 23.60 | 22.79 |
| | | 50° | 23.65 | 22.65 | 23.46 | 22.83 | 23.45 | 22.90 | 23.45 | 22.96 | 23.49 | 22.85 | 23.47 | 22.80 |
| | | 60° | 23.63 | 22.73 | 23.48 | 22.77 | 23.46 | 22.87 | 23.45 | 22.86 | 23.39 | 22.81 | 23.59 | 22.93 |
| | | 70° | 23.58 | 22.68 | 23.51 | 22.92 | 23.41 | 22.82 | 23.47 | 22.94 | 23.41 | 22.70 | 23.60 | 22.84 |
| | | 80° | 23.56 | 22.69 | 23.46 | 22.81 | 23.40 | 22.78 | 23.55 | 22.89 | 23.35 | 22.87 | 23.60 | 22.94 |
| | | 90° | 23.56 | 22.74 | 23.50 | 22.77 | 23.56 | 22.92 | 23.43 | 22.89 | 23.41 | 22.81 | 23.47 | 22.78 |
| | | 100° | 23.61 | 22.67 | 23.50 | 22.92 | 23.44 | 22.77 | 23.43 | 22.93 | 23.36 | 22.69 | 23.64 | 22.88 |
| | | 110° | 23.57 | 22.77 | 23.41 | 22.85 | 23.56 | 22.87 | 23.50 | 22.85 | 23.43 | 22.75 | 23.54 | 22.89 |
| | | 120° | 23.58 | 22.70 | 23.39 | 22.91 | 23.46 | 22.93 | 23.57 | 22.79 | 23.50 | 22.81 | 23.64 | 22.90 |
| | | 129° | 23.64 | 22.78 | 23.52 | 22.95 | 23.56 | 22.83 | 23.45 | 22.91 | 23.48 | 22.86 | 23.50 | 22.90 |
| | Non-Notebook | 130° | 18.14 | 18.18 | 18.10 | 18.20 | 18.19 | 18.11 | 18.08 | 18.09 | 18.10 | 18.21 | 18.14 | 18.19 |
| | | 140° | 18.09 | 18.19 | 18.06 | 18.12 | 18.19 | 18.11 | 18.08 | 18.19 | 18.25 | 18.19 | 18.24 | 18.13 |
| | | 150° | 18.19 | 18.15 | 18.25 | 18.14 | 18.12 | 18.15 | 18.08 | 18.22 | 18.11 | 18.19 | 18.10 | 18.13 |
| | | 160° | 18.13 | 18.24 | 18.14 | 18.25 | 18.13 | 18.07 | 18.11 | 18.17 | 18.06 | 18.26 | 18.12 | 18.07 |
| | | 170° | 18.18 | 18.16 | 18.18 | 18.23 | 18.22 | 18.17 | 18.20 | 18.12 | 18.22 | 18.11 | 18.17 | 18.06 |
| | | 180° | 18.13 | 18.18 | 18.14 | 18.08 | 18.23 | 18.13 | 18.19 | 18.05 | 18.12 | 18.22 | 18.07 | 18.24 |
| | | 190° | 18.17 | 18.14 | 18.11 | 18.25 | 18.13 | 18.19 | 18.20 | 18.09 | 18.11 | 18.25 | 18.26 | 18.20 |
| | | 200° | 18.09 | 18.14 | 18.22 | 18.17 | 18.16 | 18.13 | 18.18 | 18.17 | 18.18 | 18.21 | 18.23 | 18.07 |
| | | 210° | 18.27 | 18.12 | 18.24 | 18.18 | 18.14 | 18.21 | 18.24 | 18.23 | 18.19 | 18.07 | 18.22 | 18.20 |
| | | 220° | 18.23 | 18.15 | 18.24 | 18.13 | 18.09 | 18.11 | 18.23 | 18.11 | 18.06 | 18.08 | 18.22 | 18.07 |
| | | 230° | 18.20 | 18.12 | 18.17 | 18.22 | 18.15 | 18.08 | 18.08 | 18.06 | 18.23 | 18.17 | 18.24 | 18.20 |
| | | 240° | 18.19 | 18.08 | 18.12 | 18.10 | 18.21 | 18.15 | 18.08 | 18.20 | 18.11 | 18.24 | 18.16 | 18.12 |
| | | 250° | 18.10 | 18.12 | 18.10 | 18.15 | 18.10 | 18.24 | 18.12 | 18.09 | 18.15 | 18.08 | 18.13 | 18.18 |
| | | 260° | 18.21 | 18.14 | 18.20 | 18.07 | 18.15 | 18.23 | 18.17 | 18.15 | 18.15 | 18.26 | 18.08 | 18.06 |
| | | 270° | 18.08 | 18.06 | 18.14 | 18.11 | 18.17 | 18.18 | 18.10 | 18.17 | 18.10 | 18.10 | 18.11 | 18.17 |
| | | 280° | 18.12 | 18.23 | 18.14 | 18.14 | 18.13 | 18.09 | 18.25 | 18.20 | 18.16 | 18.12 | 18.19 | 18.10 |
| | | 290° | 18.19 | 18.15 | 18.17 | 18.07 | 18.11 | 18.07 | 18.08 | 18.18 | 18.10 | 18.16 | 18.26 | 18.14 |
| | | 300° | 18.26 | 18.25 | 18.22 | 18.23 | 18.23 | 18.14 | 18.12 | 18.21 | 18.25 | 18.21 | 18.10 | 18.17 |
| | | 310° | 18.08 | 18.22 | 18.10 | 18.25 | 18.08 | 18.15 | 18.07 | 18.12 | 18.25 | 18.15 | 18.09 | 18.20 |
| | | 320° | 18.10 | 18.06 | 18.25 | 18.15 | 18.06 | 18.22 | 18.06 | 18.07 | 18.21 | 18.08 | 18.24 | 18.10 |
| | | 330° | 18.22 | 18.23 | 18.06 | 18.08 | 18.23 | 18.12 | 18.07 | 18.08 | 18.14 | 18.10 | 18.09 | 18.13 |
| | | 340° | 18.25 | 18.07 | 18.14 | 18.24 | 18.16 | 18.11 | 18.09 | 18.15 | 18.09 | 18.26 | 18.15 | 18.21 |
| | | 350° | 18.15 | 18.22 | 18.12 | 18.24 | 18.25 | 18.22 | 18.21 | 18.07 | 18.11 | 18.15 | 18.16 | 18.07 |
| | | 360° | 18.14 | 18.15 | 18.08 | 18.20 | 18.18 | 18.22 | 18.10 | 18.04 | 18.24 | 18.14 | 18.09 | 18.23 |

| | | | 20MHz | | 15MHz | | 10MHz | | 5MHz | | 3MHz | | 1.4MHz | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B4) | Stand | 201° | 23.61 | 22.68 | 23.42 | 22.95 | 23.39 | 22.79 | 23.44 | 22.81 | 23.38 | 22.74 | 23.64 | 22.76 |
| | | 210° | 23.61 | 22.69 | 23.39 | 22.84 | 23.41 | 22.88 | 23.55 | 22.94 | 23.45 | 22.79 | 23.46 | 22.82 |
| | | 220° | 23.57 | 22.77 | 23.43 | 22.76 | 23.55 | 22.90 | 23.56 | 22.85 | 23.36 | 22.82 | 23.52 | 22.90 |
| | | 230° | 23.54 | 22.80 | 23.40 | 22.85 | 23.50 | 22.78 | 23.58 | 22.79 | 23.44 | 22.88 | 23.49 | 22.92 |
| | | 240° | 23.60 | 22.72 | 23.40 | 22.84 | 23.55 | 22.76 | 23.57 | 22.83 | 23.34 | 22.70 | 23.56 | 22.93 |
| | | 250° | 23.65 | 22.74 | 23.47 | 22.89 | 23.55 | 22.78 | 23.54 | 22.97 | 23.48 | 22.76 | 23.64 | 22.90 |
| | | 260° | 23.46 | 22.66 | 23.47 | 22.87 | 23.39 | 22.77 | 23.53 | 22.87 | 23.48 | 22.70 | 23.64 | 22.84 |
| | | 270° | 23.62 | 22.82 | 23.36 | 22.78 | 23.50 | 22.92 | 23.42 | 22.85 | 23.48 | 22.74 | 23.64 | 22.81 |
| | | 280° | 23.64 | 22.75 | 23.48 | 22.80 | 23.54 | 22.77 | 23.46 | 22.78 | 23.42 | 22.83 | 23.56 | 22.77 |
| | | 290° | 23.47 | 22.70 | 23.39 | 22.91 | 23.43 | 22.76 | 23.44 | 22.88 | 23.49 | 22.84 | 23.52 | 22.84 |
| | | 300° | 23.61 | 22.83 | 23.47 | 22.85 | 23.44 | 22.94 | 23.55 | 22.97 | 23.34 | 22.82 | 23.45 | 22.78 |
| | | 310° | 23.59 | 22.69 | 23.49 | 22.87 | 23.48 | 22.84 | 23.58 | 22.80 | 23.38 | 22.88 | 23.48 | 22.87 |
| | | 320° | 23.62 | 22.75 | 23.40 | 22.76 | 23.50 | 22.92 | 23.51 | 22.83 | 23.42 | 22.84 | 23.58 | 22.91 |
| | | 330° | 23.58 | 22.83 | 23.33 | 22.95 | 23.57 | 22.79 | 23.52 | 22.86 | 23.44 | 22.80 | 23.60 | 22.84 |
| | | 340° | 23.51 | 22.67 | 23.44 | 22.89 | 23.38 | 22.85 | 23.48 | 22.95 | 23.46 | 22.69 | 23.63 | 22.79 |
| | | 345° | 23.51 | 22.72 | 23.48 | 22.76 | 23.45 | 22.77 | 23.42 | 22.95 | 23.42 | 22.73 | 23.47 | 22.91 |

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| | | | 10MHz | | 5MHz | | 3MHz | | 1.4MHz | |
|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B5) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 24.77 | 23.80 | 24.86 | 23.87 | 24.55 | 23.83 | 24.61 | 23.85 |
| | | 40° | 24.87 | 23.84 | 24.75 | 23.86 | 24.52 | 23.90 | 24.65 | 23.72 |
| | | 50° | 24.74 | 23.83 | 24.73 | 23.94 | 24.54 | 23.86 | 24.55 | 23.77 |
| | | 60° | 24.90 | 23.93 | 24.82 | 23.93 | 24.62 | 23.92 | 24.63 | 23.71 |
| | | 70° | 24.86 | 23.91 | 24.85 | 23.86 | 24.57 | 23.96 | 24.65 | 23.71 |
| | | 80° | 24.89 | 23.83 | 24.76 | 23.93 | 24.58 | 23.91 | 24.54 | 23.79 |
| | | 90° | 24.82 | 23.86 | 24.90 | 23.95 | 24.51 | 23.83 | 24.50 | 23.85 |
| | | 100° | 24.74 | 23.97 | 24.86 | 23.98 | 24.48 | 23.90 | 24.53 | 23.89 |
| | | 110° | 24.86 | 23.97 | 24.73 | 23.95 | 24.47 | 23.89 | 24.55 | 23.85 |
| | | 120° | 24.89 | 23.83 | 24.77 | 23.82 | 24.48 | 23.79 | 24.62 | 23.82 |
| | | 129° | 24.80 | 23.97 | 24.73 | 23.91 | 24.61 | 23.96 | 24.55 | 23.80 |
| | Non-Notebook | 130° | 22.35 | 22.21 | 22.42 | 22.31 | 22.30 | 22.28 | 22.37 | 22.27 |
| | | 140° | 22.31 | 22.28 | 22.34 | 22.24 | 22.26 | 22.27 | 22.34 | 22.25 |
| | | 150° | 22.30 | 22.34 | 22.33 | 22.37 | 22.40 | 22.30 | 22.40 | 22.36 |
| | | 160° | 22.28 | 22.28 | 22.29 | 22.36 | 22.24 | 22.24 | 22.36 | 22.30 |
| | | 170° | 22.36 | 22.31 | 22.26 | 22.26 | 22.32 | 22.26 | 22.26 | 22.33 |
| | | 180° | 22.26 | 22.37 | 22.36 | 22.29 | 22.29 | 22.22 | 22.40 | 22.31 |
| | | 190° | 22.27 | 22.25 | 22.37 | 22.42 | 22.41 | 22.31 | 22.41 | 22.24 |
| | | 200° | 22.27 | 22.26 | 22.36 | 22.23 | 22.23 | 22.23 | 22.36 | 22.36 |
| | | 210° | 22.35 | 22.35 | 22.33 | 22.28 | 22.41 | 22.27 | 22.27 | 22.39 |
| | | 220° | 22.40 | 22.22 | 22.37 | 22.41 | 22.25 | 22.28 | 22.37 | 22.31 |
| | | 230° | 22.41 | 22.30 | 22.30 | 22.32 | 22.29 | 22.33 | 22.41 | 22.36 |
| | | 240° | 22.33 | 22.39 | 22.36 | 22.24 | 22.40 | 22.36 | 22.31 | 22.40 |
| | | 250° | 22.26 | 22.33 | 22.39 | 22.27 | 22.41 | 22.36 | 22.34 | 22.26 |
| | | 260° | 22.33 | 22.27 | 22.23 | 22.23 | 22.25 | 22.22 | 22.27 | 22.29 |
| | | 270° | 22.35 | 22.27 | 22.26 | 22.33 | 22.29 | 22.21 | 22.31 | 22.30 |
| | | 280° | 22.39 | 22.34 | 22.34 | 22.36 | 22.36 | 22.20 | 22.36 | 22.38 |
| | | 290° | 22.41 | 22.25 | 22.26 | 22.29 | 22.34 | 22.35 | 22.28 | 22.38 |
| | | 300° | 22.34 | 22.24 | 22.24 | 22.25 | 22.27 | 22.20 | 22.31 | 22.23 |
| | | 310° | 22.38 | 22.29 | 22.29 | 22.39 | 22.28 | 22.27 | 22.28 | 22.35 |
| | | 320° | 22.25 | 22.40 | 22.42 | 22.35 | 22.40 | 22.23 | 22.28 | 22.37 |
| | | 330° | 22.30 | 22.21 | 22.24 | 22.25 | 22.40 | 22.28 | 22.42 | 22.39 |
| | | 340° | 22.42 | 22.23 | 22.31 | 22.26 | 22.41 | 22.30 | 22.24 | 22.22 |
| | | 350° | 22.27 | 22.24 | 22.24 | 22.32 | 22.33 | 22.26 | 22.23 | 22.41 |
| | | 360° | 22.24 | 22.26 | 22.25 | 22.42 | 22.28 | 22.19 | 22.31 | 22.41 |

| | | | 10MHz | | 5MHz | | 3MHz | | 1.4MHz | |
|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B5) | Stand | 201° | 24.79 | 23.86 | 24.90 | 23.83 | 24.56 | 23.93 | 24.49 | 23.85 |
| | | 210° | 24.76 | 23.87 | 24.74 | 23.80 | 24.56 | 23.97 | 24.62 | 23.76 |
| | | 220° | 24.84 | 23.89 | 24.73 | 23.86 | 24.60 | 23.85 | 24.60 | 23.83 |
| | | 230° | 24.90 | 23.87 | 24.76 | 23.93 | 24.58 | 23.94 | 24.63 | 23.85 |
| | | 240° | 24.81 | 23.90 | 24.89 | 23.92 | 24.55 | 23.97 | 24.65 | 23.84 |
| | | 250° | 24.86 | 23.94 | 24.85 | 23.90 | 24.53 | 23.88 | 24.66 | 23.74 |
| | | 260° | 24.80 | 23.84 | 24.74 | 23.79 | 24.53 | 23.88 | 24.63 | 23.74 |
| | | 270° | 24.92 | 23.93 | 24.82 | 23.94 | 24.52 | 23.95 | 24.48 | 23.78 |
| | | 280° | 24.92 | 23.88 | 24.80 | 23.90 | 24.47 | 23.89 | 24.59 | 23.80 |
| | | 290° | 24.75 | 23.83 | 24.87 | 23.98 | 24.56 | 23.94 | 24.61 | 23.88 |
| | | 300° | 24.89 | 23.86 | 24.89 | 23.92 | 24.59 | 23.86 | 24.53 | 23.82 |
| | | 310° | 24.91 | 23.82 | 24.79 | 23.90 | 24.54 | 23.97 | 24.65 | 23.83 |
| | | 320° | 24.82 | 23.86 | 24.91 | 23.81 | 24.58 | 23.92 | 24.63 | 23.76 |
| | | 330° | 24.82 | 23.88 | 24.78 | 23.80 | 24.46 | 23.96 | 24.64 | 23.86 |
| | | 340° | 24.83 | 23.94 | 24.78 | 23.91 | 24.51 | 23.87 | 24.54 | 23.80 |
| | | 345° | 24.80 | 23.81 | 24.89 | 23.91 | 24.46 | 23.83 | 24.60 | 23.71 |

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| | | | 20MHz | | 15MHz | | 10MHz | | 5MHz | |
|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B7) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 23.97 | 22.88 | 23.91 | 22.78 | 23.68 | 22.89 | 23.83 | 22.97 |
| | | 40° | 23.86 | 22.78 | 23.92 | 22.81 | 23.74 | 22.80 | 23.70 | 22.87 |
| | | 50° | 23.89 | 22.80 | 23.84 | 22.70 | 23.64 | 22.88 | 23.77 | 22.90 |
| | | 60° | 23.81 | 22.81 | 23.96 | 22.73 | 23.62 | 22.87 | 23.85 | 22.86 |
| | | 70° | 23.86 | 22.90 | 23.83 | 22.67 | 23.74 | 22.80 | 23.79 | 22.82 |
| | | 80° | 23.88 | 22.90 | 23.92 | 22.75 | 23.78 | 22.88 | 23.86 | 22.86 |
| | | 90° | 23.94 | 22.86 | 23.82 | 22.69 | 23.64 | 22.78 | 23.76 | 22.78 |
| | | 100° | 23.92 | 22.81 | 23.97 | 22.78 | 23.70 | 22.92 | 23.76 | 22.84 |
| | | 110° | 23.82 | 22.83 | 23.83 | 22.70 | 23.77 | 22.88 | 23.76 | 22.92 |
| | | 120° | 23.80 | 22.81 | 23.79 | 22.68 | 23.63 | 22.90 | 23.86 | 22.93 |
| | | 129° | 23.95 | 22.86 | 23.96 | 22.76 | 23.75 | 22.92 | 23.84 | 22.81 |
| | Non-Notebook | 130° | 16.87 | 16.90 | 16.90 | 16.77 | 16.83 | 16.90 | 16.92 | 16.74 |
| | | 140° | 16.93 | 16.77 | 16.90 | 16.81 | 16.81 | 16.82 | 16.87 | 16.88 |
| | | 150° | 16.82 | 16.81 | 16.86 | 16.74 | 16.75 | 16.90 | 16.79 | 16.77 |
| | | 160° | 16.79 | 16.81 | 16.87 | 16.89 | 16.84 | 16.79 | 16.89 | 16.86 |
| | | 170° | 16.85 | 16.91 | 16.89 | 16.87 | 16.76 | 16.74 | 16.75 | 16.86 |
| | | 180° | 16.86 | 16.75 | 16.89 | 16.80 | 16.75 | 16.78 | 16.79 | 16.80 |
| | | 190° | 16.77 | 16.73 | 16.83 | 16.92 | 16.75 | 16.89 | 16.88 | 16.77 |
| | | 200° | 16.79 | 16.78 | 16.86 | 16.93 | 16.91 | 16.73 | 16.91 | 16.86 |
| | | 210° | 16.87 | 16.78 | 16.89 | 16.91 | 16.84 | 16.74 | 16.90 | 16.78 |
| | | 220° | 16.81 | 16.91 | 16.77 | 16.80 | 16.88 | 16.79 | 16.89 | 16.77 |
| | | 230° | 16.82 | 16.75 | 16.74 | 16.76 | 16.76 | 16.72 | 16.74 | 16.75 |
| | | 240° | 16.82 | 16.87 | 16.82 | 16.79 | 16.73 | 16.83 | 16.89 | 16.82 |
| | | 250° | 16.91 | 16.86 | 16.75 | 16.88 | 16.83 | 16.76 | 16.88 | 16.80 |
| | | 260° | 16.85 | 16.75 | 16.87 | 16.93 | 16.81 | 16.80 | 16.91 | 16.83 |
| | | 270° | 16.87 | 16.88 | 16.80 | 16.75 | 16.74 | 16.91 | 16.91 | 16.78 |
| | | 280° | 16.78 | 16.82 | 16.90 | 16.92 | 16.77 | 16.78 | 16.74 | 16.75 |
| | | 290° | 16.81 | 16.80 | 16.82 | 16.88 | 16.73 | 16.74 | 16.87 | 16.74 |
| | | 300° | 16.87 | 16.78 | 16.88 | 16.75 | 16.78 | 16.73 | 16.91 | 16.82 |
| | | 310° | 16.85 | 16.80 | 16.75 | 16.79 | 16.87 | 16.90 | 16.92 | 16.84 |
| | | 320° | 16.87 | 16.88 | 16.74 | 16.86 | 16.81 | 16.78 | 16.89 | 16.81 |
| | | 330° | 16.75 | 16.78 | 16.89 | 16.84 | 16.88 | 16.84 | 16.82 | 16.81 |
| | | 340° | 16.90 | 16.91 | 16.79 | 16.92 | 16.85 | 16.80 | 16.81 | 16.87 |
| | | 350° | 16.82 | 16.75 | 16.81 | 16.80 | 16.81 | 16.90 | 16.85 | 16.78 |
| | | 360° | 16.81 | 16.74 | 16.88 | 16.78 | 16.81 | 16.79 | 16.86 | 16.79 |

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| | | | 20MHz | | 15MHz | | 10MHz | | 5MHz | |
|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B7) | Stand | 201° | 23.98 | 22.87 | 23.93 | 22.64 | 23.76 | 22.87 | 23.72 | 22.82 |
| | | 210° | 23.80 | 22.96 | 23.84 | 22.71 | 23.65 | 22.83 | 23.80 | 22.78 |
| | | 220° | 23.80 | 22.92 | 23.90 | 22.67 | 23.72 | 22.81 | 23.85 | 22.86 |
| | | 230° | 23.96 | 22.91 | 23.90 | 22.74 | 23.64 | 22.83 | 23.79 | 22.97 |
| | | 240° | 23.83 | 22.91 | 23.82 | 22.80 | 23.61 | 22.91 | 23.78 | 22.85 |
| | | 250° | 23.98 | 22.92 | 23.92 | 22.74 | 23.68 | 22.91 | 23.76 | 22.88 |
| | | 260° | 23.81 | 22.86 | 23.97 | 22.76 | 23.62 | 22.90 | 23.84 | 22.89 |
| | | 270° | 23.87 | 22.84 | 23.96 | 22.74 | 23.79 | 22.89 | 23.84 | 22.96 |
| | | 280° | 23.85 | 22.95 | 23.87 | 22.68 | 23.75 | 22.85 | 23.85 | 22.92 |
| | | 290° | 23.91 | 22.94 | 23.91 | 22.78 | 23.67 | 22.83 | 23.76 | 22.78 |
| | | 300° | 23.95 | 22.88 | 23.91 | 22.82 | 23.72 | 22.82 | 23.87 | 22.96 |
| | | 310° | 23.88 | 22.83 | 23.91 | 22.64 | 23.75 | 22.77 | 23.77 | 22.92 |
| | | 320° | 23.91 | 22.97 | 23.89 | 22.75 | 23.60 | 22.89 | 23.77 | 22.97 |
| | | 330° | 23.98 | 22.93 | 23.78 | 22.65 | 23.72 | 22.89 | 23.76 | 22.79 |
| | | 340° | 23.92 | 22.81 | 23.84 | 22.79 | 23.68 | 22.82 | 23.75 | 22.81 |
| | | 345° | 23.89 | 22.96 | 23.89 | 22.66 | 23.64 | 22.87 | 23.75 | 22.91 |

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| | | | 10MHz | | 5MHz | | 3MHz | | 1.4MHz | |
|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B12) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 23.98 | 22.97 | 23.96 | 22.84 | 23.59 | 22.66 | 24.00 | 22.88 |
| | | 40° | 23.84 | 22.93 | 23.87 | 22.88 | 23.52 | 22.58 | 23.86 | 22.78 |
| | | 50° | 23.90 | 22.87 | 23.89 | 22.87 | 23.62 | 22.70 | 23.96 | 22.79 |
| | | 60° | 23.84 | 22.81 | 23.94 | 22.78 | 23.58 | 22.56 | 23.91 | 22.76 |
| | | 70° | 23.98 | 22.85 | 23.77 | 22.97 | 23.59 | 22.72 | 23.82 | 22.86 |
| | | 80° | 23.93 | 22.95 | 23.93 | 22.82 | 23.65 | 22.67 | 24.00 | 22.92 |
| | | 90° | 23.88 | 22.92 | 23.82 | 22.88 | 23.58 | 22.65 | 23.88 | 22.76 |
| | | 100° | 23.79 | 22.82 | 23.87 | 22.88 | 23.54 | 22.56 | 23.82 | 22.81 |
| | | 110° | 23.88 | 22.89 | 23.95 | 22.81 | 23.61 | 22.55 | 23.83 | 22.84 |
| | | 120° | 23.95 | 22.85 | 23.81 | 22.97 | 23.55 | 22.57 | 23.85 | 22.86 |
| | | 129° | 23.92 | 22.89 | 23.90 | 22.81 | 23.59 | 22.63 | 23.85 | 22.82 |
| | Non-Notebook | 130° | 20.42 | 20.35 | 20.30 | 20.26 | 20.36 | 20.44 | 20.30 | 20.31 |
| | | 140° | 20.32 | 20.36 | 20.24 | 20.35 | 20.30 | 20.42 | 20.34 | 20.37 |
| | | 150° | 20.40 | 20.41 | 20.34 | 20.24 | 20.42 | 20.30 | 20.26 | 20.37 |
| | | 160° | 20.31 | 20.43 | 20.34 | 20.39 | 20.39 | 20.44 | 20.30 | 20.37 |
| | | 170° | 20.41 | 20.40 | 20.31 | 20.30 | 20.40 | 20.42 | 20.41 | 20.41 |
| | | 180° | 20.38 | 20.43 | 20.26 | 20.28 | 20.39 | 20.35 | 20.34 | 20.29 |
| | | 190° | 20.36 | 20.35 | 20.39 | 20.25 | 20.28 | 20.41 | 20.40 | 20.32 |
| | | 200° | 20.45 | 20.30 | 20.35 | 20.43 | 20.35 | 20.27 | 20.42 | 20.27 |
| | | 210° | 20.27 | 20.35 | 20.32 | 20.28 | 20.26 | 20.41 | 20.45 | 20.31 |
| | | 220° | 20.46 | 20.33 | 20.24 | 20.39 | 20.42 | 20.33 | 20.28 | 20.34 |
| | | 230° | 20.31 | 20.40 | 20.36 | 20.36 | 20.42 | 20.44 | 20.28 | 20.27 |
| | | 240° | 20.38 | 20.28 | 20.36 | 20.36 | 20.27 | 20.29 | 20.34 | 20.38 |
| | | 250° | 20.37 | 20.38 | 20.25 | 20.42 | 20.41 | 20.29 | 20.30 | 20.41 |
| | | 260° | 20.31 | 20.32 | 20.31 | 20.34 | 20.32 | 20.37 | 20.44 | 20.45 |
| | | 270° | 20.44 | 20.41 | 20.28 | 20.31 | 20.25 | 20.31 | 20.34 | 20.27 |
| | | 280° | 20.38 | 20.30 | 20.34 | 20.33 | 20.41 | 20.34 | 20.40 | 20.40 |
| | | 290° | 20.41 | 20.29 | 20.27 | 20.38 | 20.38 | 20.29 | 20.45 | 20.36 |
| | | 300° | 20.31 | 20.37 | 20.24 | 20.43 | 20.31 | 20.41 | 20.45 | 20.44 |
| | | 310° | 20.29 | 20.38 | 20.31 | 20.26 | 20.26 | 20.40 | 20.33 | 20.37 |
| | | 320° | 20.43 | 20.36 | 20.28 | 20.43 | 20.44 | 20.29 | 20.45 | 20.37 |
| | | 330° | 20.35 | 20.40 | 20.39 | 20.42 | 20.32 | 20.34 | 20.35 | 20.41 |
| | | 340° | 20.28 | 20.41 | 20.32 | 20.40 | 20.26 | 20.42 | 20.35 | 20.27 |
| | | 350° | 20.43 | 20.29 | 20.39 | 20.39 | 20.36 | 20.30 | 20.45 | 20.45 |
| | | 360° | 20.32 | 20.45 | 20.35 | 20.26 | 20.30 | 20.41 | 20.29 | 20.34 |

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| | | | 10MHz | | 5MHz | | 3MHz | | 1.4MHz | |
|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B12) | Stand | 201° | 23.81 | 22.81 | 23.95 | 22.90 | 23.61 | 22.73 | 23.97 | 22.88 |
| | | 210° | 23.82 | 22.91 | 23.86 | 22.78 | 23.62 | 22.69 | 23.82 | 22.83 |
| | | 220° | 23.82 | 22.99 | 23.81 | 22.93 | 23.69 | 22.58 | 24.00 | 22.83 |
| | | 230° | 23.92 | 22.89 | 23.94 | 22.82 | 23.61 | 22.63 | 23.96 | 22.82 |
| | | 240° | 23.96 | 22.89 | 23.79 | 22.83 | 23.57 | 22.55 | 23.84 | 22.76 |
| | | 250° | 23.80 | 22.92 | 23.95 | 22.78 | 23.59 | 22.58 | 23.94 | 22.80 |
| | | 260° | 23.97 | 22.89 | 23.88 | 22.92 | 23.52 | 22.68 | 23.90 | 22.84 |
| | | 270° | 23.97 | 22.82 | 23.94 | 22.93 | 23.57 | 22.55 | 23.83 | 22.85 |
| | | 280° | 23.94 | 22.85 | 23.81 | 22.91 | 23.66 | 22.56 | 23.98 | 22.79 |
| | | 290° | 23.98 | 22.81 | 23.79 | 22.84 | 23.66 | 22.72 | 24.00 | 22.95 |
| | | 300° | 23.87 | 22.99 | 23.82 | 22.88 | 23.57 | 22.56 | 23.90 | 22.85 |
| | | 310° | 23.91 | 22.82 | 23.94 | 22.80 | 23.61 | 22.72 | 23.96 | 22.93 |
| | | 320° | 23.97 | 22.86 | 23.79 | 22.84 | 23.59 | 22.70 | 23.85 | 22.76 |
| | | 330° | 23.85 | 22.85 | 23.79 | 22.92 | 23.54 | 22.58 | 23.87 | 22.79 |
| | | 340° | 23.98 | 22.99 | 23.81 | 22.80 | 23.60 | 22.62 | 23.91 | 22.95 |
| | | 345° | 23.82 | 22.81 | 23.90 | 22.78 | 23.53 | 22.69 | 23.95 | 22.76 |

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| | | | 10MHz | | 5MHz | |
|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B13) | Lid close | 0° | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 23.93 | 22.68 | 23.85 | 22.89 |
| | | 40° | 23.95 | 22.67 | 23.75 | 22.91 |
| | | 50° | 23.84 | 22.55 | 23.83 | 22.78 |
| | | 60° | 23.90 | 22.54 | 23.86 | 22.83 |
| | | 70° | 23.93 | 22.63 | 23.75 | 22.92 |
| | | 80° | 23.83 | 22.63 | 23.71 | 22.82 |
| | | 90° | 23.84 | 22.68 | 23.73 | 22.87 |
| | | 100° | 23.76 | 22.61 | 23.76 | 22.96 |
| | | 110° | 23.88 | 22.66 | 23.73 | 22.86 |
| | | 120° | 23.95 | 22.63 | 23.76 | 22.88 |
| | | 129° | 23.92 | 22.61 | 23.73 | 22.83 |
| | Non-Notebook | 130° | 20.83 | 20.89 | 20.90 | 20.82 |
| | | 140° | 20.92 | 20.86 | 20.93 | 20.85 |
| | | 150° | 20.84 | 20.88 | 20.92 | 20.92 |
| | | 160° | 20.91 | 20.89 | 20.86 | 20.89 |
| | | 170° | 20.95 | 20.90 | 20.85 | 20.90 |
| | | 180° | 20.87 | 20.91 | 20.78 | 20.80 |
| | | 190° | 20.90 | 20.82 | 20.86 | 20.84 |
| | | 200° | 20.92 | 20.77 | 20.82 | 20.87 |
| | | 210° | 20.81 | 20.86 | 20.96 | 20.94 |
| | | 220° | 20.82 | 20.84 | 20.86 | 20.77 |
| | | 230° | 20.92 | 20.75 | 20.83 | 20.91 |
| | | 240° | 20.90 | 20.87 | 20.87 | 20.84 |
| | | 250° | 20.91 | 20.93 | 20.79 | 20.81 |
| | | 260° | 20.82 | 20.81 | 20.94 | 20.91 |
| | | 270° | 20.95 | 20.94 | 20.97 | 20.82 |
| | | 280° | 20.79 | 20.78 | 20.78 | 20.84 |
| | | 290° | 20.95 | 20.91 | 20.93 | 20.82 |
| | | 300° | 20.82 | 20.89 | 20.84 | 20.93 |
| | | 310° | 20.84 | 20.75 | 20.97 | 20.95 |
| | | 320° | 20.97 | 20.80 | 20.90 | 20.93 |
| | | 330° | 20.91 | 20.79 | 20.80 | 20.77 |
| | | 340° | 20.96 | 20.83 | 20.94 | 20.83 |
| | | 350° | 20.83 | 20.76 | 20.86 | 20.88 |
| | | 360° | 20.89 | 20.93 | 20.92 | 20.83 |

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| | | | 10MHz | | 5MHz | |
|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B13) | Stand | 201° | 23.89 | 22.51 | 23.76 | 22.95 |
| | | 210° | 23.94 | 22.63 | 23.85 | 22.93 |
| | | 220° | 23.89 | 22.56 | 23.75 | 22.90 |
| | | 230° | 23.86 | 22.55 | 23.87 | 22.88 |
| | | 240° | 23.87 | 22.60 | 23.76 | 22.85 |
| | | 250° | 23.76 | 22.66 | 23.87 | 22.88 |
| | | 260° | 23.76 | 22.54 | 23.73 | 22.82 |
| | | 270° | 23.78 | 22.59 | 23.87 | 22.87 |
| | | 280° | 23.92 | 22.61 | 23.72 | 22.81 |
| | | 290° | 23.92 | 22.64 | 23.78 | 22.79 |
| | | 300° | 23.88 | 22.59 | 23.74 | 22.91 |
| | | 310° | 23.79 | 22.69 | 23.82 | 22.82 |
| | | 320° | 23.81 | 22.68 | 23.74 | 22.94 |
| | | 330° | 23.95 | 22.51 | 23.70 | 22.79 |
| | | 340° | 23.82 | 22.70 | 23.75 | 22.90 |
| | | 345° | 23.76 | 22.69 | 23.88 | 22.81 |

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| | | | 10MHz | | 5MHz | |
|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B14) | Lid close | 0° | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 23.95 | 22.92 | 23.59 | 22.88 |
| | | 40° | 23.78 | 22.91 | 23.65 | 22.86 |
| | | 50° | 23.79 | 22.90 | 23.62 | 22.85 |
| | | 60° | 23.89 | 22.91 | 23.50 | 22.74 |
| | | 70° | 23.93 | 22.80 | 23.63 | 22.80 |
| | | 80° | 23.83 | 22.88 | 23.49 | 22.82 |
| | | 90° | 23.93 | 22.91 | 23.55 | 22.74 |
| | | 100° | 23.93 | 22.83 | 23.55 | 22.87 |
| | | 110° | 23.78 | 22.81 | 23.60 | 22.92 |
| | | 120° | 23.89 | 22.94 | 23.57 | 22.79 |
| | | 129° | 23.93 | 22.96 | 23.66 | 22.86 |
| | Non-Notebook | 130° | 20.81 | 20.72 | 20.82 | 20.76 |
| | | 140° | 20.87 | 20.78 | 20.75 | 20.85 |
| | | 150° | 20.81 | 20.70 | 20.88 | 20.89 |
| | | 160° | 20.88 | 20.75 | 20.73 | 20.87 |
| | | 170° | 20.86 | 20.76 | 20.91 | 20.86 |
| | | 180° | 20.78 | 20.84 | 20.82 | 20.86 |
| | | 190° | 20.85 | 20.84 | 20.84 | 20.82 |
| | | 200° | 20.86 | 20.86 | 20.76 | 20.72 |
| | | 210° | 20.86 | 20.75 | 20.87 | 20.90 |
| | | 220° | 20.91 | 20.88 | 20.86 | 20.80 |
| | | 230° | 20.85 | 20.73 | 20.87 | 20.90 |
| | | 240° | 20.90 | 20.75 | 20.72 | 20.83 |
| | | 250° | 20.89 | 20.76 | 20.85 | 20.87 |
| | | 260° | 20.79 | 20.83 | 20.90 | 20.89 |
| | | 270° | 20.74 | 20.85 | 20.90 | 20.79 |
| | | 280° | 20.86 | 20.73 | 20.74 | 20.84 |
| | | 290° | 20.77 | 20.74 | 20.77 | 20.85 |
| | | 300° | 20.81 | 20.73 | 20.88 | 20.87 |
| | | 310° | 20.84 | 20.88 | 20.89 | 20.91 |
| | | 320° | 20.74 | 20.82 | 20.89 | 20.87 |
| | | 330° | 20.81 | 20.87 | 20.77 | 20.82 |
| | | 340° | 20.91 | 20.70 | 20.80 | 20.85 |
| | | 350° | 20.74 | 20.71 | 20.77 | 20.72 |
| | | 360° | 20.87 | 20.81 | 20.78 | 20.74 |

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| | | | 10MHz | | 5MHz | |
|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B14) | Stand | 201° | 23.79 | 22.94 | 23.57 | 22.84 |
| | | 210° | 23.89 | 22.82 | 23.58 | 22.83 |
| | | 220° | 23.95 | 22.90 | 23.57 | 22.75 |
| | | 230° | 23.80 | 22.94 | 23.61 | 22.86 |
| | | 240° | 23.84 | 22.92 | 23.51 | 22.86 |
| | | 250° | 23.94 | 22.80 | 23.48 | 22.82 |
| | | 260° | 23.91 | 22.80 | 23.54 | 22.73 |
| | | 270° | 23.84 | 22.79 | 23.64 | 22.82 |
| | | 280° | 23.91 | 22.97 | 23.64 | 22.78 |
| | | 290° | 23.88 | 22.96 | 23.55 | 22.83 |
| | | 300° | 23.81 | 22.95 | 23.49 | 22.77 |
| | | 310° | 23.89 | 22.83 | 23.54 | 22.79 |
| | | 320° | 23.79 | 22.97 | 23.59 | 22.78 |
| | | 330° | 23.92 | 22.85 | 23.48 | 22.83 |
| | | 340° | 23.81 | 22.81 | 23.54 | 22.73 |
| | | 345° | 23.82 | 22.87 | 23.52 | 22.82 |

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| | | | 10MHz | | 5MHz | |
|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B17) | Lid close | 0° | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 23.90 | 22.71 | 23.79 | 22.84 |
| | | 40° | 23.97 | 22.90 | 23.90 | 22.91 |
| | | 50° | 23.90 | 22.71 | 23.93 | 22.91 |
| | | 60° | 23.81 | 22.75 | 23.85 | 22.84 |
| | | 70° | 23.89 | 22.87 | 23.84 | 22.79 |
| | | 80° | 23.80 | 22.79 | 23.81 | 22.95 |
| | | 90° | 23.84 | 22.82 | 23.92 | 22.90 |
| | | 100° | 23.83 | 22.82 | 23.94 | 22.87 |
| | | 110° | 23.84 | 22.86 | 23.88 | 22.90 |
| | | 120° | 23.95 | 22.80 | 23.82 | 22.96 |
| | | 129° | 23.80 | 22.80 | 23.78 | 22.80 |
| | Non-Notebook | 130° | 20.20 | 20.24 | 20.22 | 20.12 |
| | | 140° | 20.14 | 20.23 | 20.27 | 20.26 |
| | | 150° | 20.13 | 20.08 | 20.13 | 20.21 |
| | | 160° | 20.26 | 20.20 | 20.14 | 20.14 |
| | | 170° | 20.17 | 20.09 | 20.18 | 20.21 |
| | | 180° | 20.10 | 20.15 | 20.19 | 20.11 |
| | | 190° | 20.27 | 20.14 | 20.22 | 20.12 |
| | | 200° | 20.12 | 20.22 | 20.16 | 20.26 |
| | | 210° | 20.12 | 20.11 | 20.19 | 20.15 |
| | | 220° | 20.24 | 20.26 | 20.09 | 20.24 |
| | | 230° | 20.17 | 20.26 | 20.09 | 20.22 |
| | | 240° | 20.15 | 20.27 | 20.16 | 20.14 |
| | | 250° | 20.15 | 20.24 | 20.21 | 20.13 |
| | | 260° | 20.27 | 20.14 | 20.27 | 20.08 |
| | | 270° | 20.22 | 20.09 | 20.10 | 20.09 |
| | | 280° | 20.27 | 20.20 | 20.23 | 20.11 |
| | | 290° | 20.13 | 20.16 | 20.13 | 20.22 |
| | | 300° | 20.14 | 20.12 | 20.09 | 20.20 |
| | | 310° | 20.27 | 20.17 | 20.20 | 20.23 |
| | | 320° | 20.15 | 20.11 | 20.13 | 20.11 |
| | | 330° | 20.27 | 20.21 | 20.20 | 20.12 |
| | | 340° | 20.19 | 20.10 | 20.21 | 20.21 |
| | | 350° | 20.13 | 20.13 | 20.20 | 20.22 |
| | | 360° | 20.26 | 20.21 | 20.26 | 20.12 |

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| | | | 10MHz | | 5MHz | |
|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B17) | Stand | 201° | 23.94 | 22.88 | 23.88 | 22.78 |
| | | 210° | 23.94 | 22.71 | 23.79 | 22.86 |
| | | 220° | 23.88 | 22.80 | 23.95 | 22.90 |
| | | 230° | 23.93 | 22.75 | 23.96 | 22.96 |
| | | 240° | 23.83 | 22.81 | 23.77 | 22.78 |
| | | 250° | 23.86 | 22.75 | 23.94 | 22.93 |
| | | 260° | 23.88 | 22.86 | 23.95 | 22.89 |
| | | 270° | 23.98 | 22.77 | 23.95 | 22.88 |
| | | 280° | 23.91 | 22.85 | 23.91 | 22.81 |
| | | 290° | 23.96 | 22.83 | 23.88 | 22.91 |
| | | 300° | 23.97 | 22.72 | 23.83 | 22.84 |
| | | 310° | 23.97 | 22.77 | 23.88 | 22.89 |
| | | 320° | 23.81 | 22.85 | 23.82 | 22.82 |
| | | 330° | 23.91 | 22.76 | 23.83 | 22.88 |
| | | 340° | 23.88 | 22.76 | 23.87 | 22.80 |
| | | 345° | 23.98 | 22.71 | 23.82 | 22.85 |

| | | | 20MHz | | 15MHz | | 10MHz | | 5MHz | | 3MHz | | 1.4MHz | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B25) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 23.82 | 22.82 | 23.87 | 22.89 | 23.82 | 22.85 | 23.87 | 22.80 | 23.85 | 22.93 | 23.86 | 22.88 |
| | | 40° | 23.89 | 22.83 | 23.77 | 22.94 | 23.93 | 22.93 | 23.86 | 22.86 | 23.83 | 22.83 | 23.90 | 22.87 |
| | | 50° | 23.93 | 22.89 | 23.81 | 22.93 | 23.93 | 22.91 | 23.94 | 22.98 | 23.81 | 22.83 | 23.96 | 22.97 |
| | | 60° | 23.78 | 22.94 | 23.77 | 22.76 | 23.94 | 22.91 | 23.94 | 22.85 | 23.93 | 22.80 | 23.84 | 22.96 |
| | | 70° | 23.95 | 22.80 | 23.93 | 22.78 | 23.79 | 22.89 | 23.90 | 22.81 | 23.85 | 22.80 | 23.93 | 22.84 |
| | | 80° | 23.88 | 22.95 | 23.94 | 22.84 | 23.93 | 22.86 | 23.91 | 22.80 | 23.86 | 22.90 | 23.92 | 22.95 |
| | | 90° | 23.85 | 22.91 | 23.88 | 22.82 | 23.88 | 22.92 | 23.89 | 22.96 | 23.78 | 22.94 | 23.83 | 22.96 |
| | | 100° | 23.93 | 22.83 | 23.82 | 22.82 | 23.91 | 22.93 | 23.83 | 22.87 | 23.78 | 22.86 | 23.97 | 22.84 |
| | | 110° | 23.97 | 22.80 | 23.90 | 22.94 | 23.82 | 22.95 | 23.87 | 22.90 | 23.93 | 22.95 | 23.82 | 22.84 |
| | | 120° | 23.82 | 22.89 | 23.75 | 22.83 | 23.87 | 22.85 | 23.86 | 22.81 | 23.91 | 22.89 | 23.94 | 22.81 |
| | | 129° | 23.92 | 22.91 | 23.92 | 22.79 | 23.84 | 22.93 | 23.88 | 22.82 | 23.90 | 22.94 | 23.80 | 22.93 |
| | Non-Notebook | 130° | 16.37 | 16.47 | 16.32 | 16.41 | 16.40 | 16.41 | 16.22 | 16.29 | 16.35 | 16.37 | 16.39 | 16.34 |
| | | 140° | 16.46 | 16.41 | 16.44 | 16.44 | 16.32 | 16.42 | 16.28 | 16.28 | 16.31 | 16.42 | 16.29 | 16.44 |
| | | 150° | 16.44 | 16.46 | 16.42 | 16.28 | 16.45 | 16.43 | 16.33 | 16.31 | 16.31 | 16.47 | 16.35 | 16.40 |
| | | 160° | 16.30 | 16.31 | 16.45 | 16.31 | 16.37 | 16.45 | 16.30 | 16.36 | 16.39 | 16.32 | 16.36 | 16.33 |
| | | 170° | 16.38 | 16.40 | 16.46 | 16.42 | 16.30 | 16.35 | 16.28 | 16.42 | 16.35 | 16.31 | 16.36 | 16.41 |
| | | 180° | 16.33 | 16.44 | 16.38 | 16.45 | 16.28 | 16.28 | 16.31 | 16.43 | 16.41 | 16.28 | 16.35 | 16.29 |
| | | 190° | 16.30 | 16.35 | 16.43 | 16.34 | 16.40 | 16.44 | 16.35 | 16.44 | 16.46 | 16.30 | 16.31 | 16.41 |
| | | 200° | 16.42 | 16.37 | 16.35 | 16.29 | 16.41 | 16.40 | 16.21 | 16.30 | 16.42 | 16.43 | 16.41 | 16.29 |
| | | 210° | 16.40 | 16.40 | 16.31 | 16.29 | 16.30 | 16.43 | 16.24 | 16.43 | 16.32 | 16.43 | 16.43 | 16.36 |
| | | 220° | 16.30 | 16.38 | 16.34 | 16.30 | 16.44 | 16.32 | 16.22 | 16.41 | 16.30 | 16.28 | 16.29 | 16.32 |
| | | 230° | 16.36 | 16.34 | 16.39 | 16.42 | 16.28 | 16.42 | 16.22 | 16.33 | 16.35 | 16.36 | 16.46 | 16.29 |
| | | 240° | 16.35 | 16.44 | 16.39 | 16.36 | 16.36 | 16.45 | 16.30 | 16.36 | 16.46 | 16.36 | 16.40 | 16.41 |
| | | 250° | 16.41 | 16.46 | 16.39 | 16.36 | 16.39 | 16.38 | 16.30 | 16.42 | 16.40 | 16.43 | 16.30 | 16.31 |
| | | 260° | 16.35 | 16.40 | 16.47 | 16.40 | 16.40 | 16.40 | 16.38 | 16.41 | 16.29 | 16.32 | 16.42 | 16.43 |
| | | 270° | 16.36 | 16.45 | 16.33 | 16.33 | 16.38 | 16.44 | 16.37 | 16.27 | 16.32 | 16.31 | 16.41 | 16.44 |
| | | 280° | 16.40 | 16.40 | 16.29 | 16.46 | 16.34 | 16.34 | 16.21 | 16.36 | 16.42 | 16.33 | 16.42 | 16.27 |
| | | 290° | 16.31 | 16.30 | 16.44 | 16.37 | 16.36 | 16.36 | 16.21 | 16.30 | 16.42 | 16.30 | 16.31 | 16.31 |
| | | 300° | 16.35 | 16.47 | 16.29 | 16.34 | 16.36 | 16.46 | 16.21 | 16.34 | 16.30 | 16.39 | 16.42 | 16.30 |
| | | 310° | 16.43 | 16.39 | 16.36 | 16.40 | 16.28 | 16.46 | 16.25 | 16.28 | 16.45 | 16.44 | 16.29 | 16.42 |
| | | 320° | 16.34 | 16.36 | 16.46 | 16.32 | 16.42 | 16.45 | 16.33 | 16.34 | 16.28 | 16.42 | 16.43 | 16.36 |
| | | 330° | 16.46 | 16.43 | 16.41 | 16.38 | 16.35 | 16.34 | 16.24 | 16.35 | 16.44 | 16.36 | 16.37 | 16.44 |
| | | 340° | 16.42 | 16.28 | 16.45 | 16.42 | 16.38 | 16.40 | 16.38 | 16.39 | 16.32 | 16.38 | 16.35 | 16.28 |
| | | 350° | 16.39 | 16.28 | 16.29 | 16.33 | 16.31 | 16.47 | 16.22 | 16.29 | 16.41 | 16.46 | 16.32 | 16.43 |
| | | 360° | 16.46 | 16.31 | 16.45 | 16.35 | 16.32 | 16.45 | 16.23 | 16.36 | 16.42 | 16.44 | 16.29 | 16.37 |

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| | | | 20MHz | | 15MHz | | 10MHz | | 5MHz | | 3MHz | | 1.4MHz | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B25) | Stand | 201° | 23.85 | 22.94 | 23.79 | 22.94 | 23.92 | 22.90 | 23.94 | 22.94 | 23.88 | 22.98 | 23.85 | 22.85 |
| | | 210° | 23.78 | 22.89 | 23.75 | 22.92 | 23.94 | 22.96 | 23.90 | 22.88 | 23.90 | 22.91 | 23.97 | 22.87 |
| | | 220° | 23.94 | 22.92 | 23.78 | 22.92 | 23.77 | 22.83 | 23.86 | 22.99 | 23.92 | 22.82 | 23.87 | 22.89 |
| | | 230° | 23.80 | 22.84 | 23.81 | 22.82 | 23.83 | 22.79 | 23.89 | 22.95 | 23.89 | 22.96 | 23.91 | 22.95 |
| | | 240° | 23.90 | 22.78 | 23.87 | 22.93 | 23.87 | 22.86 | 23.92 | 22.98 | 23.93 | 22.95 | 23.86 | 22.83 |
| | | 250° | 23.81 | 22.87 | 23.94 | 22.94 | 23.88 | 22.79 | 23.93 | 22.91 | 23.81 | 22.92 | 23.87 | 22.97 |
| | | 260° | 23.81 | 22.79 | 23.79 | 22.95 | 23.85 | 22.91 | 23.84 | 22.89 | 23.84 | 22.86 | 23.83 | 22.92 |
| | | 270° | 23.80 | 22.79 | 23.93 | 22.85 | 23.82 | 22.96 | 23.83 | 22.96 | 23.88 | 22.90 | 23.93 | 22.97 |
| | | 280° | 23.84 | 22.90 | 23.81 | 22.79 | 23.87 | 22.79 | 23.82 | 22.86 | 23.91 | 22.98 | 23.86 | 22.93 |
| | | 290° | 23.93 | 22.79 | 23.81 | 22.81 | 23.92 | 22.79 | 23.88 | 22.81 | 23.76 | 22.85 | 23.87 | 22.92 |
| | | 300° | 23.82 | 22.96 | 23.80 | 22.85 | 23.82 | 22.94 | 23.84 | 22.93 | 23.91 | 22.81 | 23.79 | 22.91 |
| | | 310° | 23.85 | 22.79 | 23.90 | 22.90 | 23.80 | 22.89 | 23.82 | 22.91 | 23.75 | 22.88 | 23.79 | 22.92 |
| | | 320° | 23.94 | 22.91 | 23.90 | 22.95 | 23.77 | 22.97 | 23.81 | 22.80 | 23.82 | 22.91 | 23.94 | 22.84 |
| | | 330° | 23.95 | 22.90 | 23.78 | 22.90 | 23.92 | 22.83 | 23.80 | 22.94 | 23.93 | 22.84 | 23.96 | 22.85 |
| | | 340° | 23.94 | 22.85 | 23.76 | 22.89 | 23.92 | 22.84 | 23.76 | 22.86 | 23.76 | 22.95 | 23.80 | 22.94 |
| | | 345° | 23.88 | 22.86 | 23.82 | 22.85 | 23.91 | 22.98 | 23.82 | 22.89 | 23.80 | 22.87 | 23.97 | 22.95 |

| | | | 15MHz | | 10MHz | | 5MHz | | 3MHz | | 1.4MHz | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B26) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 24.35 | 23.62 | 24.27 | 23.34 | 24.05 | 23.59 | 24.09 | 23.56 | 24.00 | 23.35 |
| | | 40° | 24.35 | 23.73 | 24.27 | 23.47 | 24.05 | 23.73 | 24.06 | 23.46 | 24.16 | 23.44 |
| | | 50° | 24.31 | 23.68 | 24.15 | 23.50 | 24.02 | 23.75 | 24.10 | 23.48 | 24.05 | 23.43 |
| | | 60° | 24.27 | 23.62 | 24.28 | 23.50 | 23.99 | 23.57 | 24.15 | 23.51 | 24.18 | 23.41 |
| | | 70° | 24.25 | 23.63 | 24.19 | 23.38 | 24.16 | 23.72 | 24.12 | 23.60 | 24.17 | 23.37 |
| | | 80° | 24.44 | 23.56 | 24.22 | 23.39 | 24.16 | 23.71 | 24.08 | 23.61 | 24.19 | 23.46 |
| | | 90° | 24.35 | 23.61 | 24.24 | 23.33 | 24.08 | 23.76 | 24.02 | 23.61 | 24.09 | 23.53 |
| | | 100° | 24.44 | 23.65 | 24.22 | 23.37 | 24.03 | 23.74 | 24.10 | 23.62 | 24.15 | 23.37 |
| | | 110° | 24.32 | 23.54 | 24.15 | 23.37 | 24.03 | 23.75 | 24.04 | 23.64 | 24.19 | 23.37 |
| | | 120° | 24.42 | 23.57 | 24.26 | 23.48 | 24.08 | 23.68 | 24.13 | 23.62 | 24.12 | 23.39 |
| | | 129° | 24.30 | 23.72 | 24.23 | 23.43 | 24.03 | 23.58 | 24.18 | 23.49 | 24.08 | 23.36 |
| | Non-Notebook | 130° | 22.33 | 22.24 | 22.18 | 22.25 | 22.34 | 22.18 | 22.22 | 22.19 | 22.17 | 22.22 |
| | | 140° | 22.32 | 22.29 | 22.30 | 22.27 | 22.15 | 22.26 | 22.31 | 22.22 | 22.30 | 22.33 |
| | | 150° | 22.33 | 22.23 | 22.20 | 22.23 | 22.15 | 22.27 | 22.29 | 22.23 | 22.33 | 22.25 |
| | | 160° | 22.28 | 22.16 | 22.33 | 22.27 | 22.15 | 22.20 | 22.32 | 22.22 | 22.27 | 22.27 |
| | | 170° | 22.25 | 22.33 | 22.33 | 22.25 | 22.27 | 22.23 | 22.24 | 22.28 | 22.23 | 22.29 |
| | | 180° | 22.34 | 22.19 | 22.27 | 22.24 | 22.31 | 22.26 | 22.23 | 22.33 | 22.23 | 22.24 |
| | | 190° | 22.20 | 22.26 | 22.18 | 22.32 | 22.27 | 22.20 | 22.27 | 22.15 | 22.21 | 22.29 |
| | | 200° | 22.19 | 22.28 | 22.28 | 22.28 | 22.15 | 22.22 | 22.20 | 22.33 | 22.19 | 22.17 |
| | | 210° | 22.23 | 22.20 | 22.23 | 22.18 | 22.17 | 22.34 | 22.33 | 22.34 | 22.26 | 22.28 |
| | | 220° | 22.21 | 22.14 | 22.18 | 22.18 | 22.27 | 22.34 | 22.18 | 22.27 | 22.34 | 22.33 |
| | | 230° | 22.16 | 22.25 | 22.23 | 22.18 | 22.27 | 22.26 | 22.23 | 22.17 | 22.22 | 22.19 |
| | | 240° | 22.30 | 22.15 | 22.30 | 22.32 | 22.21 | 22.30 | 22.19 | 22.15 | 22.18 | 22.16 |
| | | 250° | 22.22 | 22.17 | 22.22 | 22.27 | 22.19 | 22.32 | 22.30 | 22.16 | 22.34 | 22.23 |
| | | 260° | 22.22 | 22.15 | 22.27 | 22.14 | 22.30 | 22.21 | 22.24 | 22.21 | 22.17 | 22.16 |
| | | 270° | 22.20 | 22.14 | 22.25 | 22.19 | 22.24 | 22.19 | 22.30 | 22.16 | 22.27 | 22.20 |
| | | 280° | 22.20 | 22.32 | 22.31 | 22.23 | 22.17 | 22.29 | 22.16 | 22.21 | 22.24 | 22.31 |
| | | 290° | 22.22 | 22.27 | 22.23 | 22.22 | 22.16 | 22.23 | 22.26 | 22.21 | 22.29 | 22.26 |
| | | 300° | 22.26 | 22.29 | 22.31 | 22.21 | 22.21 | 22.24 | 22.22 | 22.29 | 22.16 | 22.23 |
| | | 310° | 22.17 | 22.20 | 22.33 | 22.27 | 22.18 | 22.15 | 22.25 | 22.24 | 22.34 | 22.15 |
| | | 320° | 22.27 | 22.17 | 22.18 | 22.32 | 22.25 | 22.34 | 22.21 | 22.28 | 22.32 | 22.34 |
| | | 330° | 22.17 | 22.30 | 22.32 | 22.15 | 22.19 | 22.26 | 22.26 | 22.18 | 22.34 | 22.27 |
| | | 340° | 22.35 | 22.33 | 22.23 | 22.17 | 22.18 | 22.31 | 22.24 | 22.20 | 22.28 | 22.24 |
| | | 350° | 22.18 | 22.26 | 22.28 | 22.18 | 22.32 | 22.26 | 22.30 | 22.21 | 22.20 | 22.20 |
| | | 360° | 22.22 | 22.19 | 22.17 | 22.27 | 22.26 | 22.23 | 22.19 | 22.31 | 22.23 | 22.22 |

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| | | | 15MHz | | 10MHz | | 5MHz | | 3MHz | | 1.4MHz | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B26) | Stand | 201° | 24.33 | 23.62 | 24.32 | 23.33 | 24.11 | 23.71 | 24.18 | 23.47 | 24.19 | 23.42 |
| | | 210° | 24.33 | 23.63 | 24.30 | 23.33 | 23.98 | 23.67 | 24.07 | 23.60 | 24.18 | 23.46 |
| | | 220° | 24.39 | 23.58 | 24.19 | 23.41 | 24.00 | 23.70 | 24.08 | 23.60 | 24.16 | 23.43 |
| | | 230° | 24.29 | 23.66 | 24.28 | 23.35 | 24.01 | 23.74 | 24.02 | 23.47 | 24.01 | 23.39 |
| | | 240° | 24.28 | 23.54 | 24.33 | 23.42 | 24.09 | 23.76 | 24.02 | 23.47 | 24.06 | 23.41 |
| | | 250° | 24.36 | 23.54 | 24.22 | 23.41 | 23.99 | 23.75 | 24.06 | 23.61 | 24.01 | 23.38 |
| | | 260° | 24.44 | 23.70 | 24.28 | 23.46 | 24.15 | 23.70 | 24.10 | 23.62 | 24.13 | 23.43 |
| | | 270° | 24.25 | 23.57 | 24.14 | 23.34 | 24.05 | 23.58 | 24.12 | 23.63 | 24.00 | 23.38 |
| | | 280° | 24.38 | 23.54 | 24.22 | 23.48 | 24.01 | 23.64 | 24.11 | 23.60 | 24.03 | 23.46 |
| | | 290° | 24.27 | 23.54 | 24.23 | 23.43 | 24.13 | 23.61 | 24.06 | 23.64 | 24.04 | 23.35 |
| | | 300° | 24.34 | 23.59 | 24.21 | 23.47 | 24.09 | 23.59 | 24.18 | 23.48 | 24.00 | 23.42 |
| | | 310° | 24.27 | 23.70 | 24.24 | 23.43 | 24.03 | 23.69 | 24.08 | 23.45 | 24.15 | 23.39 |
| | | 320° | 24.25 | 23.69 | 24.31 | 23.39 | 24.14 | 23.73 | 24.16 | 23.61 | 24.08 | 23.51 |
| | | 330° | 24.26 | 23.68 | 24.21 | 23.33 | 24.03 | 23.72 | 24.01 | 23.57 | 24.05 | 23.45 |
| | | 340° | 24.33 | 23.55 | 24.27 | 23.33 | 24.06 | 23.74 | 24.15 | 23.45 | 24.03 | 23.50 |
| | | 345° | 24.39 | 23.71 | 24.30 | 23.50 | 23.99 | 23.57 | 24.18 | 23.54 | 24.11 | 23.51 |

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| | | | 10MHz | | 5MHz | |
|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B30) | Lid close | 0° | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 23.54 | 22.71 | 23.32 | 22.37 |
| | | 40° | 23.41 | 22.77 | 23.40 | 22.28 |
| | | 50° | 23.54 | 22.79 | 23.37 | 22.30 |
| | | 60° | 23.42 | 22.67 | 23.30 | 22.33 |
| | | 70° | 23.37 | 22.78 | 23.27 | 22.38 |
| | | 80° | 23.44 | 22.77 | 23.41 | 22.39 |
| | | 90° | 23.46 | 22.61 | 23.27 | 22.31 |
| | | 100° | 23.54 | 22.73 | 23.34 | 22.32 |
| | | 110° | 23.35 | 22.66 | 23.27 | 22.33 |
| | | 120° | 23.39 | 22.80 | 23.39 | 22.43 |
| | | 129° | 23.36 | 22.65 | 23.23 | 22.25 |
| | Non-Notebook | 130° | 16.34 | 16.34 | 16.43 | 16.41 |
| | | 140° | 16.41 | 16.38 | 16.30 | 16.30 |
| | | 150° | 16.37 | 16.25 | 16.34 | 16.29 |
| | | 160° | 16.33 | 16.24 | 16.46 | 16.46 |
| | | 170° | 16.46 | 16.38 | 16.37 | 16.45 |
| | | 180° | 16.32 | 16.27 | 16.31 | 16.31 |
| | | 190° | 16.33 | 16.24 | 16.29 | 16.27 |
| | | 200° | 16.29 | 16.25 | 16.32 | 16.31 |
| | | 210° | 16.32 | 16.27 | 16.39 | 16.37 |
| | | 220° | 16.45 | 16.24 | 16.44 | 16.36 |
| | | 230° | 16.31 | 16.40 | 16.40 | 16.36 |
| | | 240° | 16.42 | 16.37 | 16.38 | 16.31 |
| | | 250° | 16.30 | 16.42 | 16.33 | 16.40 |
| | | 260° | 16.43 | 16.42 | 16.47 | 16.31 |
| | | 270° | 16.33 | 16.34 | 16.35 | 16.30 |
| | | 280° | 16.35 | 16.26 | 16.31 | 16.35 |
| | | 290° | 16.40 | 16.37 | 16.39 | 16.29 |
| | | 300° | 16.38 | 16.30 | 16.33 | 16.36 |
| | | 310° | 16.36 | 16.39 | 16.28 | 16.33 |
| | | 320° | 16.32 | 16.35 | 16.40 | 16.31 |
| | | 330° | 16.35 | 16.34 | 16.34 | 16.40 |
| | | 340° | 16.40 | 16.29 | 16.32 | 16.33 |
| | | 350° | 16.30 | 16.24 | 16.40 | 16.36 |
| | | 360° | 16.38 | 16.37 | 16.28 | 16.28 |

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| | | | 10MHz | | 5MHz | |
|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B30) | Stand | 201° | 23.48 | 22.75 | 23.23 | 22.34 |
| | | 210° | 23.38 | 22.71 | 23.36 | 22.31 |
| | | 220° | 23.46 | 22.70 | 23.25 | 22.32 |
| | | 230° | 23.50 | 22.72 | 23.29 | 22.26 |
| | | 240° | 23.51 | 22.65 | 23.37 | 22.29 |
| | | 250° | 23.43 | 22.78 | 23.30 | 22.40 |
| | | 260° | 23.49 | 22.71 | 23.33 | 22.40 |
| | | 270° | 23.44 | 22.79 | 23.23 | 22.25 |
| | | 280° | 23.47 | 22.76 | 23.39 | 22.40 |
| | | 290° | 23.50 | 22.64 | 23.24 | 22.39 |
| | | 300° | 23.47 | 22.70 | 23.29 | 22.29 |
| | | 310° | 23.39 | 22.77 | 23.42 | 22.27 |
| | | 320° | 23.53 | 22.76 | 23.32 | 22.34 |
| | | 330° | 23.39 | 22.76 | 23.41 | 22.31 |
| | | 340° | 23.38 | 22.67 | 23.23 | 22.39 |
| | | 345° | 23.52 | 22.74 | 23.23 | 22.30 |

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| | | | 20MHz | | 15MHz | | 10MHz | | 5MHz | |
|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B38) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 23.82 | 22.82 | 23.87 | 22.89 | 23.82 | 22.85 | 23.87 | 22.80 |
| | | 40° | 23.89 | 22.83 | 23.77 | 22.94 | 23.93 | 22.93 | 23.86 | 22.86 |
| | | 50° | 23.93 | 22.89 | 23.81 | 22.93 | 23.93 | 22.91 | 23.94 | 22.98 |
| | | 60° | 23.78 | 22.94 | 23.77 | 22.76 | 23.94 | 22.91 | 23.94 | 22.85 |
| | | 70° | 23.95 | 22.80 | 23.93 | 22.78 | 23.79 | 22.89 | 23.90 | 22.81 |
| | | 80° | 23.88 | 22.95 | 23.94 | 22.84 | 23.93 | 22.86 | 23.91 | 22.80 |
| | | 90° | 23.85 | 22.91 | 23.88 | 22.82 | 23.88 | 22.92 | 23.89 | 22.96 |
| | | 100° | 23.93 | 22.83 | 23.82 | 22.82 | 23.91 | 22.93 | 23.83 | 22.87 |
| | | 110° | 23.97 | 22.80 | 23.90 | 22.94 | 23.82 | 22.95 | 23.87 | 22.90 |
| | | 120° | 23.82 | 22.89 | 23.75 | 22.83 | 23.87 | 22.85 | 23.86 | 22.81 |
| | | 129° | 23.92 | 22.91 | 23.92 | 22.79 | 23.84 | 22.93 | 23.88 | 22.82 |
| | Non-Notebook | 130° | 16.37 | 16.47 | 16.32 | 16.41 | 16.40 | 16.41 | 16.22 | 16.29 |
| | | 140° | 16.46 | 16.41 | 16.44 | 16.44 | 16.32 | 16.42 | 16.28 | 16.28 |
| | | 150° | 16.44 | 16.46 | 16.42 | 16.28 | 16.45 | 16.43 | 16.33 | 16.31 |
| | | 160° | 16.30 | 16.31 | 16.45 | 16.31 | 16.37 | 16.45 | 16.30 | 16.36 |
| | | 170° | 16.38 | 16.40 | 16.46 | 16.42 | 16.30 | 16.35 | 16.28 | 16.42 |
| | | 180° | 16.33 | 16.44 | 16.38 | 16.45 | 16.28 | 16.28 | 16.31 | 16.43 |
| | | 190° | 16.30 | 16.35 | 16.43 | 16.34 | 16.40 | 16.44 | 16.35 | 16.44 |
| | | 200° | 16.42 | 16.37 | 16.35 | 16.29 | 16.41 | 16.40 | 16.21 | 16.30 |
| | | 210° | 16.40 | 16.40 | 16.31 | 16.29 | 16.30 | 16.43 | 16.24 | 16.43 |
| | | 220° | 16.30 | 16.38 | 16.34 | 16.30 | 16.44 | 16.32 | 16.22 | 16.41 |
| | | 230° | 16.36 | 16.34 | 16.39 | 16.42 | 16.28 | 16.42 | 16.22 | 16.33 |
| | | 240° | 16.35 | 16.44 | 16.39 | 16.36 | 16.36 | 16.45 | 16.30 | 16.36 |
| | | 250° | 16.41 | 16.46 | 16.39 | 16.36 | 16.39 | 16.38 | 16.30 | 16.42 |
| | | 260° | 16.35 | 16.40 | 16.47 | 16.40 | 16.40 | 16.40 | 16.38 | 16.41 |
| | | 270° | 16.36 | 16.45 | 16.33 | 16.33 | 16.38 | 16.44 | 16.37 | 16.27 |
| | | 280° | 16.40 | 16.40 | 16.29 | 16.46 | 16.34 | 16.34 | 16.21 | 16.36 |
| | | 290° | 16.31 | 16.30 | 16.44 | 16.37 | 16.36 | 16.36 | 16.21 | 16.30 |
| | | 300° | 16.35 | 16.47 | 16.29 | 16.34 | 16.36 | 16.46 | 16.21 | 16.34 |
| | | 310° | 16.43 | 16.39 | 16.36 | 16.40 | 16.28 | 16.46 | 16.25 | 16.28 |
| | | 320° | 16.34 | 16.36 | 16.46 | 16.32 | 16.42 | 16.45 | 16.33 | 16.34 |
| | | 330° | 16.46 | 16.43 | 16.41 | 16.38 | 16.35 | 16.34 | 16.24 | 16.35 |
| | | 340° | 16.42 | 16.28 | 16.45 | 16.42 | 16.38 | 16.40 | 16.38 | 16.39 |
| | | 350° | 16.39 | 16.28 | 16.29 | 16.33 | 16.31 | 16.47 | 16.22 | 16.29 |
| | | 360° | 16.46 | 16.31 | 16.45 | 16.35 | 16.32 | 16.45 | 16.23 | 16.36 |

| | | | 20MHz | | 15MHz | | 10MHz | | 5MHz | |
|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B38) | Stand | 201° | 23.85 | 22.94 | 23.79 | 22.94 | 23.92 | 22.90 | 23.94 | 22.94 |
| | | 210° | 23.78 | 22.89 | 23.75 | 22.92 | 23.94 | 22.96 | 23.90 | 22.88 |
| | | 220° | 23.94 | 22.92 | 23.78 | 22.92 | 23.77 | 22.83 | 23.86 | 22.99 |
| | | 230° | 23.80 | 22.84 | 23.81 | 22.82 | 23.83 | 22.79 | 23.89 | 22.95 |
| | | 240° | 23.90 | 22.78 | 23.87 | 22.93 | 23.87 | 22.86 | 23.92 | 22.98 |
| | | 250° | 23.81 | 22.87 | 23.94 | 22.94 | 23.88 | 22.79 | 23.93 | 22.91 |
| | | 260° | 23.81 | 22.79 | 23.79 | 22.95 | 23.85 | 22.91 | 23.84 | 22.89 |
| | | 270° | 23.80 | 22.79 | 23.93 | 22.85 | 23.82 | 22.96 | 23.83 | 22.96 |
| | | 280° | 23.84 | 22.90 | 23.81 | 22.79 | 23.87 | 22.79 | 23.82 | 22.86 |
| | | 290° | 23.93 | 22.79 | 23.81 | 22.81 | 23.92 | 22.79 | 23.88 | 22.81 |
| | | 300° | 23.82 | 22.96 | 23.80 | 22.85 | 23.82 | 22.94 | 23.84 | 22.93 |
| | | 310° | 23.85 | 22.79 | 23.90 | 22.90 | 23.80 | 22.89 | 23.82 | 22.91 |
| | | 320° | 23.94 | 22.91 | 23.90 | 22.95 | 23.77 | 22.97 | 23.81 | 22.80 |
| | | 330° | 23.95 | 22.90 | 23.78 | 22.90 | 23.92 | 22.83 | 23.80 | 22.94 |
| | | 340° | 23.94 | 22.85 | 23.76 | 22.89 | 23.92 | 22.84 | 23.76 | 22.86 |
| | | 345° | 23.88 | 22.86 | 23.82 | 22.85 | 23.91 | 22.98 | 23.82 | 22.89 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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| | | | 20MHz | | 15MHz | | 10MHz | | 5MHz | |
|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B41) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 24.90 | 23.92 | 24.73 | 23.88 | 24.79 | 23.81 | 24.88 | 23.67 |
| | | 40° | 24.77 | 23.87 | 24.76 | 24.00 | 24.82 | 23.80 | 24.85 | 23.71 |
| | | 50° | 24.83 | 23.94 | 24.87 | 23.84 | 24.64 | 23.81 | 24.80 | 23.66 |
| | | 60° | 24.72 | 23.81 | 24.74 | 23.81 | 24.76 | 23.89 | 24.78 | 23.74 |
| | | 70° | 24.75 | 23.90 | 24.87 | 23.94 | 24.83 | 23.92 | 24.75 | 23.81 |
| | | 80° | 24.87 | 23.93 | 24.83 | 23.98 | 24.75 | 23.97 | 24.78 | 23.68 |
| | | 90° | 24.83 | 23.80 | 24.78 | 23.95 | 24.67 | 23.85 | 24.81 | 23.77 |
| | | 100° | 24.82 | 23.82 | 24.88 | 23.94 | 24.72 | 23.84 | 24.86 | 23.68 |
| | | 110° | 24.89 | 23.89 | 24.76 | 23.85 | 24.83 | 23.93 | 24.87 | 23.69 |
| | | 120° | 24.86 | 23.92 | 24.87 | 23.96 | 24.64 | 23.90 | 24.90 | 23.82 |
| | | 129° | 24.83 | 23.78 | 24.71 | 23.83 | 24.69 | 23.95 | 24.76 | 23.80 |
| | Non-Notebook | 130° | 24.78 | 23.78 | 24.83 | 23.95 | 24.64 | 23.96 | 24.74 | 23.81 |
| | | 140° | 24.82 | 23.78 | 24.75 | 24.00 | 24.64 | 23.94 | 24.75 | 23.75 |
| | | 150° | 24.74 | 23.88 | 24.75 | 23.97 | 24.83 | 23.87 | 24.89 | 23.70 |
| | | 160° | 24.91 | 23.84 | 24.79 | 23.87 | 24.69 | 23.90 | 24.77 | 23.71 |
| | | 170° | 24.81 | 23.78 | 24.76 | 23.99 | 24.65 | 23.92 | 24.76 | 23.68 |
| | | 180° | 24.73 | 23.91 | 24.85 | 23.85 | 24.78 | 23.82 | 24.71 | 23.70 |
| | | 190° | 24.77 | 23.80 | 24.73 | 23.99 | 24.68 | 23.83 | 24.82 | 23.67 |
| | | 200° | 24.76 | 23.95 | 24.73 | 23.97 | 24.79 | 23.87 | 24.81 | 23.66 |
| | | 210° | 24.85 | 23.95 | 24.80 | 23.89 | 24.66 | 23.99 | 24.86 | 23.79 |
| | | 220° | 24.73 | 23.94 | 24.73 | 23.87 | 24.71 | 23.95 | 24.75 | 23.69 |
| | | 230° | 24.81 | 23.87 | 24.75 | 23.88 | 24.78 | 23.86 | 24.76 | 23.68 |
| | | 240° | 24.72 | 23.82 | 24.84 | 23.84 | 24.72 | 23.86 | 24.90 | 23.70 |
| | | 250° | 24.75 | 23.81 | 24.89 | 23.85 | 24.70 | 23.80 | 24.74 | 23.68 |
| | | 260° | 24.74 | 23.94 | 24.88 | 23.84 | 24.68 | 23.81 | 24.79 | 23.67 |
| | | 270° | 24.86 | 23.81 | 24.77 | 23.84 | 24.65 | 23.91 | 24.88 | 23.83 |
| | | 280° | 24.86 | 23.79 | 24.76 | 23.88 | 24.79 | 23.81 | 24.79 | 23.75 |
| | | 290° | 24.79 | 23.85 | 24.83 | 23.97 | 24.64 | 23.87 | 24.88 | 23.81 |
| | | 300° | 24.73 | 23.88 | 24.87 | 23.91 | 24.72 | 23.84 | 24.75 | 23.70 |
| | | 310° | 24.73 | 23.86 | 24.76 | 23.97 | 24.81 | 23.97 | 24.73 | 23.79 |
| | | 320° | 24.88 | 23.89 | 24.77 | 23.91 | 24.73 | 23.87 | 24.80 | 23.73 |
| | | 330° | 24.74 | 23.89 | 24.79 | 23.86 | 24.67 | 23.88 | 24.87 | 23.73 |
| | | 340° | 24.87 | 23.89 | 24.88 | 23.93 | 24.77 | 23.95 | 24.77 | 23.77 |
| | | 350° | 24.87 | 23.88 | 24.84 | 23.97 | 24.80 | 23.80 | 24.71 | 23.78 |
| | | 360° | 24.76 | 23.87 | 24.80 | 23.86 | 24.67 | 23.98 | 24.72 | 23.75 |

| | | | 20MHz | | 15MHz | | 10MHz | | 5MHz | |
|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B41) | Stand | 201° | 24.84 | 23.93 | 24.79 | 23.85 | 24.64 | 23.94 | 24.75 | 23.71 |
| | | 210° | 24.72 | 23.77 | 24.83 | 23.98 | 24.66 | 23.89 | 24.84 | 23.74 |
| | | 220° | 24.85 | 23.94 | 24.72 | 23.94 | 24.69 | 23.89 | 24.76 | 23.68 |
| | | 230° | 24.81 | 23.78 | 24.88 | 23.88 | 24.73 | 23.82 | 24.80 | 23.77 |
| | | 240° | 24.80 | 23.83 | 24.82 | 23.82 | 24.74 | 23.95 | 24.71 | 23.71 |
| | | 250° | 24.82 | 23.86 | 24.84 | 23.85 | 24.78 | 23.89 | 24.79 | 23.82 |
| | | 260° | 24.83 | 23.95 | 24.84 | 23.94 | 24.72 | 23.95 | 24.72 | 23.78 |
| | | 270° | 24.74 | 23.78 | 24.84 | 23.88 | 24.82 | 23.92 | 24.76 | 23.73 |
| | | 280° | 24.82 | 23.93 | 24.79 | 23.91 | 24.79 | 23.83 | 24.84 | 23.72 |
| | | 290° | 24.86 | 23.92 | 24.86 | 24.00 | 24.66 | 23.92 | 24.76 | 23.69 |
| | | 300° | 24.75 | 23.89 | 24.79 | 23.85 | 24.75 | 23.80 | 24.77 | 23.70 |
| | | 310° | 24.84 | 23.95 | 24.72 | 23.96 | 24.83 | 23.89 | 24.73 | 23.85 |
| | | 320° | 24.89 | 23.95 | 24.88 | 23.98 | 24.73 | 23.90 | 24.85 | 23.81 |
| | | 330° | 24.88 | 23.86 | 24.75 | 24.00 | 24.74 | 23.97 | 24.82 | 23.72 |
| | | 340° | 24.87 | 23.95 | 24.76 | 23.91 | 24.64 | 23.91 | 24.85 | 23.80 |
| | | 345° | 24.81 | 23.87 | 24.88 | 23.88 | 24.76 | 23.86 | 24.73 | 23.77 |

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| | | | 20MHz | | 15MHz | | 10MHz | | 5MHz | | 3MHz | | 1.4MHz | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B66) | Lid close | 0° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 10° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 20° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 30° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | | 34° | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| | Notebook | 35° | 23.61 | 22.82 | 23.38 | 22.79 | 23.36 | 22.70 | 23.50 | 22.87 | 23.22 | 22.57 | 23.26 | 22.55 |
| | | 40° | 23.63 | 22.85 | 23.47 | 22.81 | 23.49 | 22.83 | 23.59 | 22.88 | 23.32 | 22.66 | 23.26 | 22.66 |
| | | 50° | 23.56 | 22.81 | 23.33 | 22.71 | 23.39 | 22.79 | 23.49 | 22.91 | 23.27 | 22.48 | 23.12 | 22.58 |
| | | 60° | 23.58 | 22.73 | 23.43 | 22.78 | 23.54 | 22.83 | 23.45 | 22.82 | 23.22 | 22.57 | 23.12 | 22.67 |
| | | 70° | 23.46 | 22.68 | 23.48 | 22.76 | 23.46 | 22.72 | 23.49 | 22.84 | 23.31 | 22.48 | 23.23 | 22.61 |
| | | 80° | 23.61 | 22.72 | 23.48 | 22.67 | 23.49 | 22.76 | 23.46 | 22.86 | 23.19 | 22.52 | 23.22 | 22.60 |
| | | 90° | 23.56 | 22.73 | 23.32 | 22.63 | 23.39 | 22.74 | 23.60 | 22.81 | 23.28 | 22.59 | 23.17 | 22.66 |
| | | 100° | 23.63 | 22.83 | 23.43 | 22.76 | 23.47 | 22.74 | 23.53 | 22.81 | 23.34 | 22.60 | 23.13 | 22.61 |
| | | 110° | 23.62 | 22.71 | 23.34 | 22.64 | 23.35 | 22.76 | 23.42 | 22.85 | 23.30 | 22.50 | 23.28 | 22.70 |
| | | 120° | 23.55 | 22.84 | 23.43 | 22.70 | 23.54 | 22.78 | 23.54 | 22.93 | 23.36 | 22.52 | 23.23 | 22.57 |
| | | 129° | 23.56 | 22.81 | 23.34 | 22.72 | 23.39 | 22.73 | 23.50 | 22.86 | 23.27 | 22.62 | 23.30 | 22.55 |
| | Non-Notebook | 130° | 18.22 | 18.11 | 18.14 | 18.08 | 18.29 | 18.21 | 18.15 | 18.20 | 18.24 | 18.20 | 18.14 | 18.23 |
| | | 140° | 18.24 | 18.18 | 18.22 | 18.14 | 18.26 | 18.16 | 18.22 | 18.12 | 18.13 | 18.25 | 18.12 | 18.26 |
| | | 150° | 18.27 | 18.24 | 18.09 | 18.18 | 18.10 | 18.17 | 18.21 | 18.26 | 18.24 | 18.20 | 18.24 | 18.16 |
| | | 160° | 18.24 | 18.10 | 18.13 | 18.10 | 18.21 | 18.20 | 18.24 | 18.26 | 18.28 | 18.18 | 18.20 | 18.25 |
| | | 170° | 18.11 | 18.13 | 18.18 | 18.21 | 18.21 | 18.15 | 18.25 | 18.21 | 18.19 | 18.12 | 18.11 | 18.16 |
| | | 180° | 18.12 | 18.16 | 18.09 | 18.13 | 18.14 | 18.18 | 18.25 | 18.09 | 18.17 | 18.15 | 18.20 | 18.17 |
| | | 190° | 18.19 | 18.17 | 18.22 | 18.25 | 18.22 | 18.10 | 18.17 | 18.16 | 18.27 | 18.12 | 18.10 | 18.21 |
| | | 200° | 18.21 | 18.15 | 18.12 | 18.19 | 18.24 | 18.22 | 18.22 | 18.18 | 18.10 | 18.25 | 18.18 | 18.22 |
| | | 210° | 18.24 | 18.16 | 18.18 | 18.15 | 18.16 | 18.23 | 18.27 | 18.20 | 18.26 | 18.10 | 18.25 | 18.23 |
| | | 220° | 18.18 | 18.26 | 18.21 | 18.27 | 18.16 | 18.17 | 18.15 | 18.17 | 18.19 | 18.28 | 18.11 | 18.12 |
| | | 230° | 18.11 | 18.08 | 18.15 | 18.25 | 18.25 | 18.12 | 18.26 | 18.16 | 18.21 | 18.28 | 18.17 | 18.19 |
| | | 240° | 18.12 | 18.19 | 18.09 | 18.20 | 18.24 | 18.21 | 18.23 | 18.11 | 18.25 | 18.15 | 18.09 | 18.23 |
| | | 250° | 18.12 | 18.10 | 18.16 | 18.10 | 18.13 | 18.11 | 18.19 | 18.27 | 18.13 | 18.22 | 18.10 | 18.13 |
| | | 260° | 18.27 | 18.21 | 18.09 | 18.19 | 18.11 | 18.10 | 18.12 | 18.25 | 18.21 | 18.11 | 18.14 | 18.14 |
| | | 270° | 18.14 | 18.22 | 18.22 | 18.16 | 18.11 | 18.28 | 18.22 | 18.16 | 18.24 | 18.11 | 18.16 | 18.09 |
| | | 280° | 18.13 | 18.15 | 18.26 | 18.23 | 18.16 | 18.19 | 18.13 | 18.26 | 18.17 | 18.09 | 18.16 | 18.24 |
| | | 290° | 18.23 | 18.20 | 18.11 | 18.23 | 18.25 | 18.23 | 18.13 | 18.22 | 18.21 | 18.28 | 18.15 | 18.23 |
| | | 300° | 18.16 | 18.21 | 18.27 | 18.19 | 18.10 | 18.16 | 18.16 | 18.18 | 18.20 | 18.13 | 18.25 | 18.28 |
| | | 310° | 18.16 | 18.11 | 18.17 | 18.13 | 18.25 | 18.16 | 18.24 | 18.09 | 18.24 | 18.26 | 18.13 | 18.27 |
| | | 320° | 18.27 | 18.12 | 18.22 | 18.16 | 18.27 | 18.11 | 18.28 | 18.16 | 18.19 | 18.25 | 18.19 | 18.18 |
| | | 330° | 18.25 | 18.14 | 18.17 | 18.15 | 18.21 | 18.27 | 18.16 | 18.15 | 18.27 | 18.22 | 18.17 | 18.10 |
| | | 340° | 18.30 | 18.25 | 18.16 | 18.10 | 18.26 | 18.13 | 18.20 | 18.26 | 18.25 | 18.10 | 18.22 | 18.17 |
| | | 350° | 18.23 | 18.11 | 18.10 | 18.25 | 18.15 | 18.22 | 18.09 | 18.20 | 18.19 | 18.28 | 18.15 | 18.24 |
| | | 360° | 18.11 | 18.09 | 18.16 | 18.11 | 18.29 | 18.14 | 18.28 | 18.26 | 18.19 | 18.14 | 18.22 | 18.17 |

| | | | 20MHz | | 15MHz | | 10MHz | | 5MHz | | 3MHz | | 1.4MHz | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antenna | Operation mode | Lid angle | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| WWAN TX (LTE B66) | Stand | 201° | 23.44 | 22.71 | 23.35 | 22.75 | 23.43 | 22.69 | 23.46 | 22.83 | 23.35 | 22.47 | 23.14 | 22.57 |
| | | 210° | 23.53 | 22.86 | 23.47 | 22.77 | 23.51 | 22.72 | 23.55 | 22.84 | 23.35 | 22.61 | 23.12 | 22.65 |
| | | 220° | 23.56 | 22.72 | 23.36 | 22.71 | 23.45 | 22.72 | 23.60 | 22.83 | 23.24 | 22.49 | 23.11 | 22.64 |
| | | 230° | 23.60 | 22.78 | 23.33 | 22.68 | 23.40 | 22.69 | 23.41 | 22.95 | 23.20 | 22.54 | 23.14 | 22.69 |
| | | 240° | 23.51 | 22.74 | 23.35 | 22.63 | 23.45 | 22.79 | 23.44 | 22.81 | 23.31 | 22.65 | 23.26 | 22.68 |
| | | 250° | 23.58 | 22.86 | 23.35 | 22.81 | 23.50 | 22.85 | 23.41 | 22.85 | 23.22 | 22.54 | 23.25 | 22.57 |
| | | 260° | 23.44 | 22.79 | 23.36 | 22.77 | 23.35 | 22.76 | 23.50 | 22.86 | 23.30 | 22.63 | 23.28 | 22.72 |
| | | 270° | 23.56 | 22.79 | 23.33 | 22.64 | 23.46 | 22.71 | 23.55 | 22.83 | 23.30 | 22.62 | 23.17 | 22.70 |
| | | 280° | 23.50 | 22.75 | 23.34 | 22.64 | 23.53 | 22.73 | 23.49 | 22.78 | 23.25 | 22.60 | 23.15 | 22.59 |
| | | 290° | 23.61 | 22.73 | 23.37 | 22.77 | 23.49 | 22.75 | 23.55 | 22.90 | 23.29 | 22.65 | 23.21 | 22.60 |
| | | 300° | 23.58 | 22.77 | 23.37 | 22.70 | 23.50 | 22.72 | 23.41 | 22.94 | 23.37 | 22.56 | 23.13 | 22.64 |
| | | 310° | 23.58 | 22.83 | 23.44 | 22.74 | 23.42 | 22.76 | 23.50 | 22.93 | 23.23 | 22.54 | 23.20 | 22.72 |
| | | 320° | 23.53 | 22.74 | 23.37 | 22.65 | 23.49 | 22.85 | 23.49 | 22.93 | 23.19 | 22.65 | 23.13 | 22.60 |
| | | 330° | 23.63 | 22.70 | 23.47 | 22.63 | 23.53 | 22.78 | 23.45 | 22.84 | 23.36 | 22.51 | 23.27 | 22.62 |
| | | 340° | 23.44 | 22.68 | 23.40 | 22.79 | 23.40 | 22.78 | 23.49 | 22.95 | 23.27 | 22.53 | 23.24 | 22.62 |
| | | 345° | 23.47 | 22.78 | 23.48 | 22.69 | 23.46 | 22.69 | 23.50 | 22.83 | 23.36 | 22.58 | 23.13 | 22.69 |

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## 1.7 The SAR Measurement System

A block diagram of the SAR measurement System is given in Fig. a. This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ ($|Ei|^2$)/ ρ where σ and ρ are the conductivity and mass density of the tissue-simulant.

The DASY 5 system for performing compliance tests consists of the following items:

1. A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage intissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

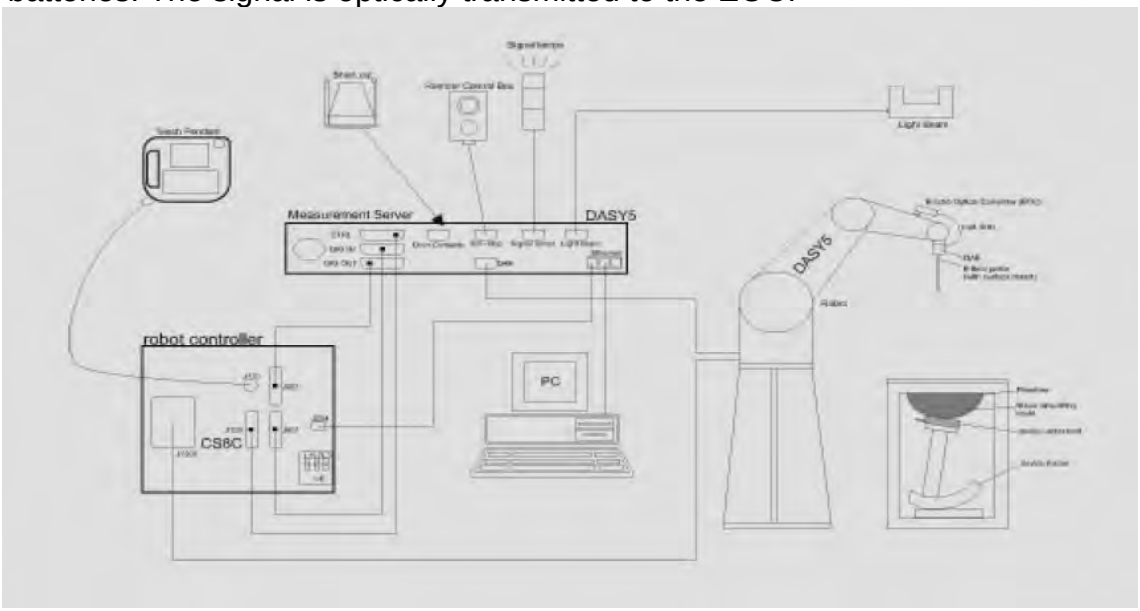



Fig. a The block diagram of SAR system

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4. The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
5. 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.
6. A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
7. A computer operating Windows 7.
8. DASY 5 software.
9. Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
10. Tissue simulating liquid mixed according to the given recipes.
11. Validation dipole kits allowing to validate the proper functioning of the system.

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## 1.8 System Components

### EX3DV4 E-Field Probe

| | | |
|---|---|---|
| Construction | Symmetrical design with triangular core<br>Built-in shielding against static charges<br>PEEK enclosure material (resistant to organic solvents, e.g., DGBE) |  |
| Calibration | Basic Broad Band Calibration in air<br>Conversion Factors (CF) for HSL 750/835/1750/1900/2300/2450/2600/ 5200/5300/5600/5800MHz Additional CF for other liquids and frequencies upon request | |
| Frequency | 10 MHz to > 6 GHz | |
| Directivity | ± 0.3 dB in HSL (rotation around probe axis)<br>± 0.5 dB in tissue material (rotation normal to probe axis) | |
| Dynamic Range | 10 µW/g to > 100 mW/g<br>Linearity: ± 0.2 dB (noise: typically < 1 µW/g) | |
| Dimensions | Tip diameter: 2.5 mm | |
| Application | High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%. | |

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## PHANTOM

| | |
|---|---|
| Model | ELI |
| Construction | The ELI phantom is used 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. |
| Shell Thickness | 2 ± 0.2 mm |
| Filling Volume | Approx. 30 liters |
| Dimensions | Major axis: 600 mm<br>Minor axis: 400 mm |



## DEVICE HOLDER

| | |
|---|---|
| Construction | The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin ) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks. |



Device Holder

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## 1.9 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. 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 +/- 10% from the target SAR values. These tests were done at 750/835/1750/1900/2300/ 2450/2600/5200/5300/5600/5800MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the liquid depth above the ear reference points was ≥ 15 cm ± 5 mm (frequency ≤ 3 GHz) or ≥ 10 cm ± 5 mm (frequency > 3 G Hz) 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.

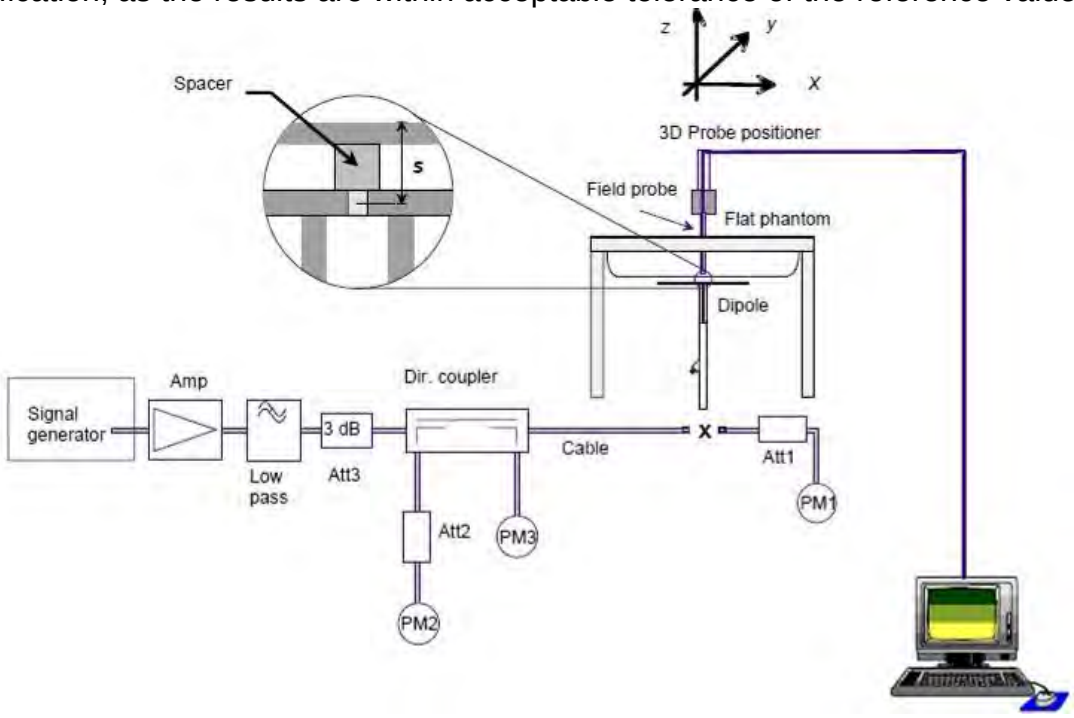



Fig. b The block diagram of system verification

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| Validation Kit | S/N | Frequency (MHz) | | 1W Target SAR-1g (mW/g) | Measured SAR-1g (mW/g) | Measured SAR-1g normalized to 1W (mW/g) | Deviation (%) | Measured Date |
|---|---|---|---|---|---|---|---|---|
| D750V3 | 1078 | 750 | Body | 8.25 | 2.12 | 8.48 | 2.79% | Aug. 28, 2018 |
| D835V2 | 4d120 | 835 | Body | 9.68 | 2.35 | 9.40 | -2.89% | Aug. 29, 2018 |
| D1750V2 | 1023 | 1750 | Body | 36.8 | 9.07 | 36.28 | -1.41% | Aug. 30, 2018 |
| D1900V2 | 5d173 | 1900 | Body | 40.9 | 9.83 | 39.32 | -3.86% | Aug. 31, 2018 |
| D2300V2 | 1006 | 2300 | Body | 47.3 | 11.9 | 47.60 | 0.63% | Sep. 03, 2018 |
| D2450V2 | 727 | 2450 | Body | 50.8 | 13.1 | 52.4 | 3.15% | Jul. 28, 2018 |
| D2600V2 | 1005 | 2600 | Body | 54.4 | 14.5 | 58.00 | 6.62% | Sep. 04, 2018 |
| | | | Body | 54.4 | 14.3 | 57.20 | 5.15% | Sep. 07, 2018 |
| D5GHzV2 | 1023 | 5200 | Body | 70.9 | 7.24 | 72.4 | 2.12% | Jul. 30, 2018 |
| | | 5300 | Body | 72.9 | 7.41 | 74.1 | 1.65% | Jul. 30, 2018 |
| | | 5600 | Body | 77.6 | 7.88 | 78.8 | 1.55% | Jul. 31, 2018 |
| | | 5800 | Body | 74.1 | 7.45 | 74.5 | 0.54% | Jul. 31, 2018 |

Table 1. Results of system verification

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## 1.10 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this Head-simulant fluid were measured by using the Agilent Model 85070E Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Network Analyzer.

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within ± 5% of the target values.

The depth of the tissue simulant in the flat section of the phantom was ≥ 15 cm ± 5 mm (Frequency ≤3G) or ≥ 10 cm ± 5 mm (Frequency >3G) during all tests. (Fig. 2)

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| Tissue Type | Measurement Date | Measured Frequency (MHz) | Target Dielectric Constant, εr | Target Conductivity, σ (S/m) | Measured Dielectric Constant, εr | Measured Conductivity, σ (S/m) | % dev εr | % dev σ |
|---|---|---|---|---|---|---|---|---|
| Body | Aug, 28. 2018 | 704 | 55.710 | 0.960 | 56.965 | 0.925 | -2.25% | 3.62% |
| | | 707.5 | 55.697 | 0.960 | 56.962 | 0.927 | -2.27% | 3.44% |
| | | 709 | 55.691 | 0.960 | 56.947 | 0.929 | -2.26% | 3.25% |
| | | 710 | 55.687 | 0.960 | 56.972 | 0.933 | -2.31% | 2.84% |
| | | 711 | 55.683 | 0.960 | 56.901 | 0.936 | -2.19% | 2.53% |
| | | 750 | 55.531 | 0.963 | 56.658 | 0.971 | -2.03% | -0.79% |
| | | 782 | 55.406 | 0.966 | 56.342 | 1.002 | -1.69% | -3.74% |
| | | 793 | 55.301 | 0.967 | 56.312 | 1.001 | -1.83% | -3.52% |
| | Aug, 29. 2018 | 822.5 | 55.249 | 0.969 | 57.161 | 0.976 | -3.46% | -0.72% |
| | | 826.4 | 55.226 | 0.959 | 57.152 | 0.978 | -3.49% | -1.94% |
| | | 829 | 55.218 | 0.963 | 57.141 | 0.979 | -3.48% | -1.70% |
| | | 831.5 | 55.214 | 0.970 | 57.138 | 0.986 | -3.49% | -1.68% |
| | | 835 | 55.200 | 0.970 | 57.137 | 0.987 | -3.51% | -1.75% |
| | | 836.5 | 55.195 | 0.972 | 57.084 | 0.989 | -3.42% | -1.77% |
| | | 836.6 | 55.194 | 0.970 | 57.081 | 0.991 | -3.42% | -2.15% |
| | | 841.5 | 55.180 | 0.978 | 57.063 | 0.994 | -3.41% | -1.64% |
| | | 844 | 55.172 | 0.981 | 57.058 | 0.998 | -3.42% | -1.72% |
| | | 846.6 | 55.164 | 0.984 | 56.991 | 0.999 | -3.31% | -1.50% |
| | Aug, 30. 2018 | 1712.4 | 53.531 | 1.465 | 51.286 | 1.418 | 4.19% | 3.19% |
| | | 1720 | 53.511 | 1.469 | 51.240 | 1.429 | 4.24% | 2.75% |
| | | 1732.4 | 53.478 | 1.477 | 51.205 | 1.441 | 4.25% | 2.46% |
| | | 1732.5 | 53.478 | 1.477 | 51.194 | 1.442 | 4.27% | 2.39% |
| | | 1745 | 53.445 | 1.485 | 51.178 | 1.453 | 4.24% | 2.17% |
| | | 1750 | 53.432 | 1.488 | 51.161 | 1.462 | 4.25% | 1.78% |
| | | 1752.6 | 53.425 | 1.490 | 51.154 | 1.464 | 4.25% | 1.75% |
| | | 1770 | 53.379 | 1.501 | 51.095 | 1.482 | 4.28% | 1.27% |
| | Aug, 31. 2018 | 1852.4 | 53.162 | 1.553 | 50.802 | 1.568 | 4.44% | -0.96% |
| | | 1860 | 53.142 | 1.558 | 50.772 | 1.575 | 4.46% | -1.10% |
| | | 1880 | 53.089 | 1.571 | 50.719 | 1.598 | 4.47% | -1.75% |
| | | 1883 | 53.055 | 1.575 | 51.243 | 1.602 | 3.42% | -1.71% |
| | | 1900 | 53.037 | 1.583 | 50.642 | 1.619 | 4.52% | -2.26% |
| | | 1905.0 | 53.027 | 1.585 | 50.621 | 1.622 | 4.54% | -2.33% |
| | | 1907.6 | 53.017 | 1.588 | 50.607 | 1.629 | 4.55% | -2.58% |
| | Sep, 03. 2018 | 2300 | 52.900 | 1.807 | 53.343 | 1.836 | -0.84% | -1.62% |
| | | 2310 | 52.887 | 1.816 | 53.300 | 1.845 | -0.78% | -1.58% |
| | Sep, 04. 2018 | 2506 | 52.629 | 2.029 | 52.623 | 2.106 | 0.01% | -3.77% |
| | | 2510 | 52.624 | 2.035 | 52.602 | 2.116 | 0.04% | -3.98% |
| | | 2535 | 52.592 | 2.071 | 52.521 | 2.152 | 0.13% | -3.93% |
| | | 2549.5 | 52.573 | 2.091 | 52.497 | 2.170 | 0.15% | -3.77% |
| | | 2560 | 52.560 | 2.106 | 52.438 | 2.185 | 0.23% | -3.75% |
| | | 2580 | 52.535 | 2.134 | 52.384 | 2.213 | 0.29% | -3.68% |
| | | 2593 | 52.518 | 2.153 | 52.327 | 2.229 | 0.36% | -3.54% |
| | | 2595 | 52.515 | 2.156 | 52.330 | 2.232 | 0.35% | -3.54% |
| | | 2600 | 52.509 | 2.163 | 52.314 | 2.240 | 0.37% | -3.57% |
| | | 2610 | 52.496 | 2.177 | 52.263 | 2.252 | 0.44% | -3.45% |
| | | 2636.5 | 52.463 | 2.214 | 52.191 | 2.295 | 0.52% | -3.64% |
| | | 2680 | 52.407 | 2.276 | 52.052 | 2.353 | 0.68% | -3.37% |
| | Sep, 07. 2018 | 2580 | 52.535 | 2.134 | 52.907 | 2.225 | -0.71% | -4.25% |
| | | 2595 | 52.515 | 2.156 | 52.853 | 2.227 | -0.64% | -3.31% |
| | | 2600 | 52.509 | 2.163 | 52.837 | 2.231 | -0.62% | -3.16% |
| | | 2610 | 52.496 | 2.177 | 52.785 | 2.241 | -0.55% | -2.94% |

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| Measurement Date | Measured Frequency (MHz) | Target Dielectric Constant, εr | Target Conductivity, σ (S/m) | Measured Dielectric Constant, εr | Measured Conductivity, σ (S/m) | % dev εr | % dev σ |
|---|---|---|---|---|---|---|---|
| Jul, 28. 2018 | 2412 | 52.751 | 1.914 | 53.000 | 1.882 | -0.47% | 1.66% |
| | 2417 | 52.744 | 1.918 | 52.956 | 1.889 | -0.40% | 1.54% |
| | 2437 | 52.717 | 1.938 | 52.882 | 1.914 | -0.31% | 1.22% |
| | 2441 | 52.712 | 1.941 | 52.875 | 1.920 | -0.31% | 1.10% |
| | 2450 | 52.700 | 1.950 | 52.827 | 1.932 | -0.24% | 0.92% |
| | 2457 | 52.691 | 1.960 | 52.808 | 1.941 | -0.22% | 0.97% |
| | 2462 | 52.685 | 1.967 | 52.786 | 1.950 | -0.19% | 0.87% |
| Jul, 30. 2018 | 5190 | 49.028 | 5.288 | 49.677 | 5.253 | -1.32% | 0.65% |
| | 5200 | 49.014 | 5.299 | 49.628 | 5.264 | -1.25% | 0.67% |
| | 5230 | 48.974 | 5.334 | 49.609 | 5.299 | -1.30% | 0.66% |
| | 5270 | 48.919 | 5.381 | 49.340 | 5.382 | -0.86% | -0.02% |
| | 5300 | 48.879 | 5.416 | 49.301 | 5.376 | -0.86% | 0.74% |
| Jul, 31. 2018 | 5600 | 48.471 | 5.766 | 48.510 | 5.768 | -0.08% | -0.03% |
| | 5690 | 48.349 | 5.872 | 48.303 | 5.838 | 0.10% | 0.57% |
| | 5775 | 48.234 | 5.971 | 47.951 | 6.004 | 0.59% | -0.56% |
| | 5795 | 48.207 | 5.994 | 47.762 | 6.055 | 0.92% | -1.01% |
| | 5800 | 48.200 | 6.000 | 47.847 | 6.039 | 0.73% | -0.65% |

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the body tissue simulating liquid:

| Frequency (MHz) | Mode | Ingredient | | | | | | Total amount |
|---|---|---|---|---|---|---|---|---|
| | | DGMBE | Water | Salt | Preventol D-7 | Cellulose | Sugar | |
| 750 | Body | – | 631.68 g | 11.72 g | 1.2 g | – | 600 g | 1.0L(Kg) |
| 835 | Body | – | 631.68 g | 11.72 g | 1.2 g | – | 600 g | 1.0L(Kg) |
| 1750 | Body | 300.67 g | 716.56 g | 4.0 g | – | – | – | 1.0L(Kg) |
| 1900 | Body | 300.67 g | 716.56 g | 4.0 g | – | – | – | 1.0L(Kg) |
| 2300 | Body | 301.7ml | 698.3ml | – | – | – | – | 1.0L(Kg) |
| 2450 | Body | 301.7ml | 698.3ml | – | – | – | – | 1.0L(Kg) |
| 2600 | Body | 301.7ml | 698.3ml | – | – | – | – | 1.0L(Kg) |

Body Simulating Liquids for 5 GHz, Manufactured by SPEAG:

| Ingredients | Water | Esters, Emulsifiers, Inhibitors | Sodium and Salt |
|---|---|---|---|
| (% by weight) | 60-80 | 20-40 | 0-1.5 |

Table 3. Recipes for Tissue Simulating Liquid

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## 1.11 Evaluation Procedures

The entire evaluation of the spatial peak values is performed within the Post-processing engine (SEMCAD). The system always gives the maximum values for the 1 g and 10 g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

1. The extraction of the measured data (grid and values) from the Zoom Scan.
2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
3. The generation of a high-resolution mesh within the measured volume
4. The interpolation of all measured values from the measurement grid to the high-resolution grid
5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
6. The calculation of the averaged SAR within masses of 1g and 10g.

The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

In the Area Scan, the gradient of the interpolation function is evaluated to find all the extreme of the SAR distribution. The uncertainty on the locations of the extreme is less than 1/20 of the grid size. Only local maximum within –2 dB of the global maximum are searched and passed for the Cube Scan measurement. In the Cube Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5mm.

The maximum search is automatically performed after each area scan measurement. It is based on splines in two or three dimensions. The procedure can find the maximum for most SAR distributions even with relatively large grid spacing. After the area scanning measurement, the probe is automatically moved to a position at the interpolated maximum. The following scan can directly use this position for reference, e.g., for a finer resolution grid or the cube evaluations. The 1g and 10g peak evaluations are only available for the predefined cube 7x7x7 scans. The routines are verified and optimized for the grid dimensions used in

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these cube measurements.
The measured volume of 30x30x30mm contains about 30g of tissue.
The first procedure is an extrapolation (incl. Boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is the moved around until the highest averaged SAR is found. If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

## 1.12 Probe Calibration Procedures

For the calibration of E-field probes in lossy liquids, an electric field with an accurately known field strength must be produced within the measured liquid. For standardization purposes it would be desirable if all measurements which are necessary to assess the correct field strength would be traceable to standardized measurement procedures. In the following two different calibration techniques are summarized:

### 1.12.1 Transfer Calibration with Temperature Probes

In lossy liquids the specific absorption rate (SAR) is related both to the electric field ( $E$ ) and the temperature gradient ( $\delta T / \delta t$ ) in the liquid.

$$SAR = \frac{\sigma}{\rho}|E|^2 = c\frac{\delta T}{\delta t}$$

whereby σ is the conductivity, ρ the density and c the heat capacity of the liquid.

Hence, the electric field in lossy liquid can be measured indirectly by measuring the temperature gradient in the liquid. Non-disturbing temperature probes (optical probes or thermistor probes with resistive lines) with high spatial resolution (<1-2 mm) and fast reaction time (<1 s) are available and can be easily calibrated with high precision [1]. The setup and the exciting source have no influence on the calibration; only the relative positioning uncertainties of the standard temperature probe and the E-field probe to be calibrated must be considered. However, several problems limit the available accuracy of probe calibrations with temperature probes:

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1. The temperature gradient is not directly measurable but must be evaluated from temperature measurements at different time steps. Special precaution is necessary to avoid measurement errors caused by temperature gradients due to energy equalizing effects or convection currents in the liquid. Such effects cannot be completely avoided, as the measured field itself destroys the thermal equilibrium in the liquid. With a careful setup these errors can be kept small.
2. The measured volume around the temperature probe is not well defined. It is difficult to calculate the energy transfer from a surrounding gradient temperature field into the probe. These effects must be considered, since temperature probes are calibrated in liquid with homogeneous temperatures. There is no traceable standard for temperature rise measurements.
3. The calibration depends on the assessment of the specific density, the heat capacity and the conductivity of the medium. While the specific density and heat capacity can be measured accurately with standardized procedures (~ 2% for c; much better for ρ) , there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed ±5%.
4. Temperature rise measurements are not very sensitive and therefore are often performed at a higher power level than the E-field measurements. The nonlinearities in the system (e.g., power measurements, different components, etc.) must be considered.

Considering these problems, the possible accuracy of the calibration of E-field probes with temperature gradient measurements in a carefully designed setup is about ±10% (RSS) [2]. Recently, a setup which is a combination of the waveguide techniques and the thermal measurements was presented in [3]. The estimated uncertainty of the setup is ±5% (RSS) when the same liquid is used for the calibration and for actual measurements and ±7-9% (RSS) when not, which is in good agreement with the estimates given in [2].

### 1.12.2 Calibration with Analytical Fields

In this method a technical setup is used in which the field can be calculated analytically from measurements of other physical magnitudes (e.g., input power). This corresponds to the standard field method for probe calibration in air; however, there is no standard defined for fields in lossy liquids.

When using calculated fields in lossy liquids for probe calibration, several points must be considered in the assessment of the uncertainty:

1. The setup must enable accurate determination of the incident power.

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2. The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.
3. Due to the small wavelength in liquids with high permittivity, even small setups might be above the resonant cutoff frequencies. The field distribution in the setup must be carefully checked for conformity with the theoretical field distribution.

## References

1. N. Kuster, Q. Balzano, and J.C. Lin, Eds., *Mobile Communications Safety*, Chapman & Hall, London, 1997.
2. K. Meier, M. Burkhardt, T. Schmid, and N. Kuster, \Broadband calibration of E-field probes in lossy media", *IEEE Transactions on Microwave Theory and Techniques*, vol. 44, no. 10, pp. 1954{1962, Oct. 1996.
3. K. Jokela, P. Hyysalo, and L. Puranen, \Calibration of specific absorption rate (SAR) probes in waveguide at 900 MHz", *IEEE Transactions on Instrumentation and Measurements*, vol. 47, no. 2, pp. 432{438, Apr. 1998.

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## 1.13 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (‘‘SAR’’) in Section 4.2 of ‘‘IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz,’’ ANSI/IEEE C95.1, By the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in ‘‘Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields,’’ NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter. Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

1. Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube).
2. Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.
3. Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape

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of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section. (Table 4.)

| Human Exposure | Uncontrolled Environment General Population | Controlled Environment Occupational |
|---|---|---|
| Spatial Peak SAR (Brain) | 1.60 W/Kg | 8.00 W/Kg |
| Spatial Average SAR (Whole Body) | 0.08 W/Kg | 0.40 W/Kg |
| Spatial Peak SAR (Hands/Feet/Ankle/Wrist) | 4.00 W/Kg | 20.00 W/Kg |

Table 4. RF exposure limits

Notes:

1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
2. Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.

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# 2. Summary of Results

## WCDMA Band II

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Measured | Reported | |
| WCDMA Band II | Back side | 0 | 9538 | 1907.6 | 16.50 | 16.42 | 1.86% | 0.078 | 0.079 | - |
| | Top side | 0 | 9538 | 1907.6 | 16.50 | 16.42 | 1.86% | 0.426 | 0.434 | - |
| | Bottom side | 0 | 9538 | 1907.6 | 16.50 | 16.42 | 1.86% | 0.009 | 0.009 | - |
| | Right side | 0 | 9538 | 1907.6 | 16.50 | 16.42 | 1.86% | 0.011 | 0.011 | - |
| | Left side | 0 | 9262 | 1852.4 | 16.50 | 16.41 | 2.09% | 1.090 | 1.113 | - |
| | Left side | 0 | 9400 | 1880 | 16.50 | 16.39 | 2.57% | 1.110 | 1.138 | - |
| | Left side | 0 | 9538 | 1907.6 | 16.50 | 16.42 | 1.86% | 1.190 | 1.212 | 280 |

## WCDMA Band IV

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Measured | Reported | |
| WCDMA Band IV | Back side | 0 | 1412 | 1732.4 | 18.5 | 18.27 | 5.44% | 0.081 | 0.085 | - |
| | Top side | 0 | 1412 | 1732.4 | 18.5 | 18.27 | 5.44% | 0.525 | 0.554 | - |
| | Bottom side | 0 | 1412 | 1732.4 | 18.5 | 18.27 | 5.44% | 0.011 | 0.012 | - |
| | Right side | 0 | 1412 | 1732.4 | 18.5 | 18.27 | 5.44% | 0.012 | 0.013 | - |
| | Left side | 0 | 1312 | 1712.4 | 18.5 | 18.21 | 6.91% | 1.160 | 1.240 | - |
| | Left side | 0 | 1412 | 1732.4 | 18.5 | 18.27 | 5.44% | 1.230 | 1.297 | 281 |
| | Left side | 0 | 1513 | 1752.6 | 18.5 | 18.26 | 5.68% | 1.180 | 1.247 | - |

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## WCDMA Band V

| Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Measured | Reported | |
| WCDMA Band V | Back side | 0 | 4132 | 826.4 | 22.5 | 21.48 | 26.47% | 0.159 | 0.201 | - |
| | Top side | 0 | 4132 | 826.4 | 22.5 | 21.48 | 26.47% | 0.614 | 0.777 | - |
| | Bottom side | 0 | 4132 | 826.4 | 22.5 | 21.48 | 26.47% | 0.026 | 0.033 | - |
| | Right side | 0 | 4132 | 826.4 | 22.5 | 21.48 | 26.47% | 0.005 | 0.006 | - |
| | Left side | 0 | 4132 | 826.4 | 22.5 | 21.48 | 26.47% | 0.788 | 0.997 | 282 |
| | Left side | 0 | 4183 | 836.6 | 22.5 | 21.44 | 27.64% | 0.763 | 0.974 | - |
| | Left side | 0 | 4233 | 846.6 | 22.5 | 21.46 | 27.06% | 0.754 | 0.958 | - |

## LTE FDD Band 2

| Mode | Bandwidth (MHz) | Modulation | RB Size | RB start | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Measured | Reported | |
| LTE Band 2 | 20MHz | QPSK | 1 RB | 0 | Left side | 0 | 18700 | 1860 | 16.5 | 16.29 | 4.95% | 0.967 | 1.015 | - |
| | | | | 50 | Back side | 0 | 19100 | 1900 | 16.5 | 16.41 | 2.09% | 0.068 | 0.069 | - |
| | | | | | Top side | 0 | 19100 | 1900 | 16.5 | 16.41 | 2.09% | 0.377 | 0.385 | - |
| | | | | | Bottom side | 0 | 19100 | 1900 | 16.5 | 16.41 | 2.09% | 0.008 | 0.008 | - |
| | | | | | Right side | 0 | 19100 | 1900 | 16.5 | 16.41 | 2.09% | 0.010 | 0.010 | - |
| | | | | | Left side | 0 | 19100 | 1900 | 16.5 | 16.41 | 2.09% | 1.020 | 1.041 | 283 |
| | | | | | Left side* | 0 | 19100 | 1900 | 16.5 | 16.41 | 2.09% | 0.994 | 1.015 | - |
| | | | | 99 | Left side | 0 | 18900 | 1880 | 16.5 | 16.32 | 4.23% | 0.971 | 1.012 | - |
| | | | 50 RB | 0 | Left side | 0 | 18900 | 1880 | 16.5 | 16.25 | 5.93% | 0.951 | 1.007 | - |
| | | | | 25 | Back side | 0 | 18700 | 1860 | 16.5 | 16.38 | 2.80% | 0.058 | 0.060 | - |
| | | | | | Top side | 0 | 18700 | 1860 | 16.5 | 16.38 | 2.80% | 0.363 | 0.373 | - |
| | | | | | Bottom side | 0 | 18700 | 1860 | 16.5 | 16.38 | 2.80% | 0.007 | 0.008 | - |
| | | | | | Right side | 0 | 18700 | 1860 | 16.5 | 16.38 | 2.80% | 0.009 | 0.010 | - |
| | | | | | Left side | 0 | 18700 | 1860 | 16.5 | 16.38 | 2.80% | 0.983 | 1.011 | - |
| | | | | | Left side | 0 | 19100 | 1900 | 16.5 | 16.37 | 3.04% | 0.966 | 0.995 | - |
| | | | 100 RB | | Back side | 0 | 18700 | 1860 | 16.5 | 16.39 | 2.57% | 0.055 | 0.056 | - |
| | | | | | Top side | 0 | 18700 | 1860 | 16.5 | 16.39 | 2.57% | 0.351 | 0.360 | - |
| | | | | | Bottom side | 0 | 18700 | 1860 | 16.5 | 16.39 | 2.57% | 0.006 | 0.007 | - |
| | | | | | Right side | 0 | 18700 | 1860 | 16.5 | 16.39 | 2.57% | 0.009 | 0.009 | - |
| | | | | | Left side | 0 | 18700 | 1860 | 16.5 | 16.39 | 2.57% | 0.974 | 0.999 | - |
| | | | | | Left side | 0 | 18900 | 1880 | 16.5 | 16.29 | 4.95% | 0.943 | 0.990 | - |
| | | | | | Left side | 0 | 19100 | 1900 | 16.5 | 16.13 | 8.89% | 0.912 | 0.993 | - |

* - repeated at the highest SAR measurement according to the KDB 865664 D01

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## LTE FDD Band 4

| Mode | Bandwidth (MHz) | Modulation | RB Size | RB start | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Measured | Reported | |
| LTE Band 4 | 20MHz | QPSK | 1 RB | 0 | Back side | 0 | 20050 | 1720 | 18.5 | 18.27 | 5.44% | 0.075 | 0.079 | - |
| | | | | | Top side | 0 | 20050 | 1720 | 18.5 | 18.27 | 5.44% | 0.496 | 0.523 | - |
| | | | | | Bottom side | 0 | 20050 | 1720 | 18.5 | 18.27 | 5.44% | 0.009 | 0.009 | - |
| | | | | | Right side | 0 | 20050 | 1720 | 18.5 | 18.27 | 5.44% | 0.011 | 0.012 | - |
| | | | | | Left side | 0 | 20050 | 1720 | 18.5 | 18.27 | 5.44% | 1.120 | 1.181 | 284 |
| | | | | | Left side* | 0 | 20050 | 1720 | 18.5 | 18.27 | 5.44% | 1.090 | 1.149 | - |
| | | | | 99 | Left side | 0 | 20175 | 1732.5 | 18.5 | 18.19 | 7.40% | 1.040 | 1.117 | - |
| | | | | | Left side | 0 | 20300 | 1745 | 18.5 | 18.17 | 7.89% | 1.010 | 1.090 | - |
| | | | 50 RB | 0 | Left side | 0 | 20175 | 1732.5 | 18.5 | 18.21 | 6.91% | 0.984 | 1.052 | - |
| | | | | 25 | Back side | 0 | 20050 | 1720 | 18.5 | 18.23 | 6.41% | 0.071 | 0.076 | - |
| | | | | | Top side | 0 | 20050 | 1720 | 18.5 | 18.23 | 6.41% | 0.473 | 0.503 | - |
| | | | | | Bottom side | 0 | 20050 | 1720 | 18.5 | 18.23 | 6.41% | 0.008 | 0.009 | - |
| | | | | | Right side | 0 | 20050 | 1720 | 18.5 | 18.23 | 6.41% | 0.009 | 0.010 | - |
| | | | | | Left side | 0 | 20050 | 1720 | 18.5 | 18.23 | 6.41% | 1.030 | 1.096 | - |
| | | | | 50 | Left side | 0 | 20300 | 1745 | 18.5 | 18.09 | 9.90% | 0.992 | 1.090 | - |
| | | | 100 RB | | Back side | 0 | 20175 | 1732.5 | 18.5 | 18.11 | 9.40% | 0.068 | 0.074 | - |
| | | | | | Top side | 0 | 20175 | 1732.5 | 18.5 | 18.11 | 9.40% | 0.466 | 0.510 | - |
| | | | | | Bottom side | 0 | 20175 | 1732.5 | 18.5 | 18.11 | 9.40% | 0.008 | 0.009 | - |
| | | | | | Right side | 0 | 20175 | 1732.5 | 18.5 | 18.11 | 9.40% | 0.009 | 0.010 | - |
| | | | | | Left side | 0 | 20050 | 1720 | 18.5 | 18.04 | 11.17% | 0.955 | 1.062 | - |
| | | | | | Left side | 0 | 20175 | 1732.5 | 18.5 | 18.11 | 9.40% | 1.010 | 1.105 | - |
| | | | | | Left side | 0 | 20300 | 1745 | 18.5 | 17.98 | 12.72% | 0.974 | 1.098 | - |

* - repeated at the highest SAR measurement according to the KDB 865664 D01

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## LTE FDD Band 5

| Mode | Bandwidth (MHz) | Modulation | RB Size | RB start | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Measured | Reported | |
| LTE Band 5 | 10MHz | QPSK | 1 RB | 25 | Back side | 0 | 20525 | 836.5 | 22.5 | 22.43 | 1.62% | 0.167 | 0.170 | - |
| | | | | | Top side | 0 | 20525 | 836.5 | 22.5 | 22.43 | 1.62% | 0.670 | 0.681 | - |
| | | | | | Bottom side | 0 | 20525 | 836.5 | 22.5 | 22.43 | 1.62% | 0.027 | 0.027 | - |
| | | | | | Right side | 0 | 20525 | 836.5 | 22.5 | 22.43 | 1.62% | 0.005 | 0.006 | - |
| | | | | | Left side | 0 | 20525 | 836.5 | 22.5 | 22.43 | 1.62% | 0.824 | 0.837 | 285 |
| | | | | | Left side* | 0 | 20525 | 836.5 | 22.5 | 22.43 | 1.62% | 0.810 | 0.823 | - |
| | | | | | Left side | 0 | 20600 | 844 | 22.5 | 22.40 | 2.33% | 0.761 | 0.779 | - |
| | | | | 49 | Left side | 0 | 20450 | 829 | 22.5 | 22.21 | 6.91% | 0.753 | 0.805 | - |
| | | | 25 RB | 25 | Back side | 0 | 20525 | 836.5 | 22.5 | 22.40 | 2.33% | 0.153 | 0.157 | - |
| | | | | | Top side | 0 | 20525 | 836.5 | 22.5 | 22.40 | 2.33% | 0.663 | 0.678 | - |
| | | | | | Bottom side | 0 | 20525 | 836.5 | 22.5 | 22.40 | 2.33% | 0.021 | 0.021 | - |
| | | | | | Right side | 0 | 20525 | 836.5 | 22.5 | 22.40 | 2.33% | 0.005 | 0.005 | - |
| | | | | | Left side | 0 | 20525 | 836.5 | 22.5 | 22.40 | 2.33% | 0.753 | 0.771 | - |
| | | | 50 RB | | Back side | 0 | 20525 | 836.5 | 22.5 | 22.30 | 4.71% | 0.148 | 0.155 | - |
| | | | | | Top side | 0 | 20525 | 836.5 | 22.5 | 22.30 | 4.71% | 0.638 | 0.668 | - |
| | | | | | Bottom side | 0 | 20525 | 836.5 | 22.5 | 22.30 | 4.71% | 0.019 | 0.020 | - |
| | | | | | Right side | 0 | 20525 | 836.5 | 22.5 | 22.30 | 4.71% | 0.004 | 0.005 | - |
| | | | | | Left side | 0 | 20525 | 836.5 | 22.5 | 22.30 | 4.71% | 0.731 | 0.765 | - |

* - repeated at the highest SAR measurement according to the KDB 865664 D01

## LTE FDD Band 7

| Mode | Bandwidth (MHz) | Modulation | RB Size | RB start | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Measured | Reported | |
| LTE Band 7 | 20MHz | QPSK | 1 RB | 0 | Top side | 0 | 21350 | 2560 | 17 | 16.91 | 2.09% | 0.641 | 0.654 | - |
| | | | | 50 | Back side | 0 | 20850 | 2510 | 17 | 16.94 | 1.39% | 0.233 | 0.236 | - |
| | | | | | Top side | 0 | 20850 | 2510 | 17 | 16.94 | 1.39% | 0.661 | 0.670 | 286 |
| | | | | | Top side | 0 | 21100 | 2535 | 17 | 16.92 | 1.86% | 0.654 | 0.666 | - |
| | | | | | Bottom side | 0 | 20850 | 2510 | 17 | 16.94 | 1.39% | 0.034 | 0.034 | - |
| | | | | | Right side | 0 | 20850 | 2510 | 17 | 16.94 | 1.39% | 0.006 | 0.006 | - |
| | | | | | Left side | 0 | 20850 | 2510 | 17 | 16.94 | 1.39% | 0.301 | 0.305 | - |
| | | | 50 RB | 50 | Back side | 0 | 21100 | 2535 | 17 | 16.93 | 1.62% | 0.212 | 0.215 | - |
| | | | | | Top side | 0 | 21100 | 2535 | 17 | 16.93 | 1.62% | 0.578 | 0.587 | - |
| | | | | | Bottom side | 0 | 21100 | 2535 | 17 | 16.93 | 1.62% | 0.029 | 0.029 | - |
| | | | | | Right side | 0 | 21100 | 2535 | 17 | 16.93 | 1.62% | 0.005 | 0.006 | - |
| | | | | | Left side | 0 | 21100 | 2535 | 17 | 16.93 | 1.62% | 0.283 | 0.288 | - |
| | | | 100 RB | | Back side | 0 | 21100 | 2535 | 17 | 16.86 | 3.28% | 0.209 | 0.216 | - |
| | | | | | Top side | 0 | 21100 | 2535 | 17 | 16.86 | 3.28% | 0.568 | 0.587 | - |
| | | | | | Bottom side | 0 | 21100 | 2535 | 17 | 16.86 | 3.28% | 0.027 | 0.028 | - |
| | | | | | Right side | 0 | 21100 | 2535 | 17 | 16.86 | 3.28% | 0.006 | 0.006 | - |
| | | | | | Left side | 0 | 21100 | 2535 | 17 | 16.86 | 3.28% | 0.277 | 0.286 | - |

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## LTE FDD Band 12

| Mode | Bandwidth (MHz) | Modulation | RB Size | RB start | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Measured | Reported | |
| LTE Band 12 | 10MHz | QPSK | 1 RB | 0 | Left side | 0 | 23060 | 704 | 20.5 | 20.31 | 4.47% | 0.654 | 0.683 | - |
| | | | | 25 | Back side | 0 | 23095 | 707.5 | 20.5 | 20.46 | 0.93% | 0.141 | 0.142 | - |
| | | | | | Top side | 0 | 23095 | 707.5 | 20.5 | 20.46 | 0.93% | 0.654 | 0.660 | - |
| | | | | | Bottom side | 0 | 23095 | 707.5 | 20.5 | 20.46 | 0.93% | 0.022 | 0.022 | - |
| | | | | | Right side | 0 | 23095 | 707.5 | 20.5 | 20.46 | 0.93% | 0.004 | 0.004 | - |
| | | | | | Left side | 0 | 23095 | 707.5 | 20.5 | 20.46 | 0.93% | 0.692 | 0.698 | 287 |
| | | | | | Left side | 0 | 23130 | 711 | 20.5 | 20.43 | 1.62% | 0.643 | 0.653 | - |
| | | | 25 RB | 25 | Back side | 0 | 23130 | 711 | 20.5 | 20.44 | 1.39% | 0.133 | 0.135 | - |
| | | | | | Top side | 0 | 23130 | 711 | 20.5 | 20.44 | 1.39% | 0.641 | 0.650 | - |
| | | | | | Bottom side | 0 | 23130 | 711 | 20.5 | 20.44 | 1.39% | 0.019 | 0.019 | - |
| | | | | | Right side | 0 | 23130 | 711 | 20.5 | 20.44 | 1.39% | 0.003 | 0.003 | - |
| | | | | | Left side | 0 | 23130 | 711 | 20.5 | 20.44 | 1.39% | 0.651 | 0.660 | - |
| | | | 50 RB | | Back side | 0 | 23095 | 707.5 | 20.5 | 20.38 | 2.80% | 0.128 | 0.132 | - |
| | | | | | Top side | 0 | 23095 | 707.5 | 20.5 | 20.38 | 2.80% | 0.633 | 0.651 | - |
| | | | | | Bottom side | 0 | 23095 | 707.5 | 20.5 | 20.38 | 2.80% | 0.017 | 0.017 | - |
| | | | | | Right side | 0 | 23095 | 707.5 | 20.5 | 20.38 | 2.80% | 0.003 | 0.003 | |
| | | | | | Left side | 0 | 23095 | 707.5 | 20.5 | 20.38 | 2.80% | 0.642 | 0.660 | - |

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## LTE FDD Band 13

| Mode | Bandwidth (MHz) | Modulation | RB Size | RB start | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Measured | Reported | |
| LTE Band 13 | 10MHz | QPSK | 1 RB | 0 | Left side | 0 | 23230 | 782 | 21 | 20.90 | 2.33% | 0.857 | 0.877 | - |
| | | | | 25 | Back side | 0 | 23230 | 782 | 21 | 20.98 | 0.46% | 0.187 | 0.188 | - |
| | | | | | Top side | 0 | 23230 | 782 | 21 | 20.98 | 0.46% | 0.677 | 0.680 | - |
| | | | | | Bottom side | 0 | 23230 | 782 | 21 | 20.98 | 0.46% | 0.031 | 0.031 | - |
| | | | | | Right side | 0 | 23230 | 782 | 21 | 20.98 | 0.46% | 0.006 | 0.006 | - |
| | | | | | Left side | 0 | 23230 | 782 | 21 | 20.98 | 0.46% | 0.876 | 0.880 | 288 |
| | | | | | Left side | 0 | 23230 | 782 | 21 | 20.78 | 5.20% | 0.743 | 0.782 | - |
| | | | | | Left side | 0 | 23230 | 782 | 21 | 20.83 | 3.99% | 0.751 | 0.781 | - |
| | | | | | Left side* | 0 | 23230 | 782 | 21 | 20.98 | 0.46% | 0.866 | 0.870 | - |
| | | | | 49 | Left side | 0 | 23230 | 782 | 21 | 20.79 | 4.95% | 0.823 | 0.864 | - |
| | | | 25 RB | 0 | Back side | 0 | 23230 | 782 | 21 | 20.88 | 2.80% | 0.172 | 0.177 | - |
| | | | | | Top side | 0 | 23230 | 782 | 21 | 20.88 | 2.80% | 0.651 | 0.669 | - |
| | | | | | Bottom side | 0 | 23230 | 782 | 21 | 20.88 | 2.80% | 0.029 | 0.030 | - |
| | | | | | Right side | 0 | 23230 | 782 | 21 | 20.88 | 2.80% | 0.005 | 0.006 | - |
| | | | | | Left side | 0 | 23230 | 782 | 21 | 20.88 | 2.80% | 0.781 | 0.803 | - |
| | | | 50 RB | | Back side | 0 | 23230 | 782 | 21 | 20.92 | 1.86% | 0.169 | 0.172 | - |
| | | | | | Top side | 0 | 23230 | 782 | 21 | 20.92 | 1.86% | 0.643 | 0.655 | - |
| | | | | | Bottom side | 0 | 23230 | 782 | 21 | 20.92 | 1.86% | 0.028 | 0.029 | - |
| | | | | | Right side | 0 | 23230 | 782 | 21 | 20.92 | 1.86% | 0.005 | 0.005 | |
| | | | | | Left side | 0 | 23230 | 782 | 21 | 20.92 | 1.86% | 0.774 | 0.788 | - |

* - repeated at the highest SAR measurement according to the KDB 865664 D01

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## LTE FDD Band 14

| Mode | Bandwidth (MHz) | Modulation | RB Size | RB start | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Measured | Reported | |
| LTE Band 14 | 10MHz | QPSK | 1 RB | 0 | Back side | 0 | 23330 | 793 | 21 | 20.92 | 1.86% | 0.182 | 0.185 | - |
| | | | | | Top side | 0 | 23330 | 793 | 21 | 20.92 | 1.86% | 0.641 | 0.653 | - |
| | | | | | Bottom side | 0 | 23330 | 793 | 21 | 20.92 | 1.86% | 0.029 | 0.030 | - |
| | | | | | Right side | 0 | 23330 | 793 | 21 | 20.92 | 1.86% | 0.006 | 0.006 | - |
| | | | | | Left side | 0 | 23330 | 793 | 21 | 20.92 | 1.86% | 0.852 | 0.868 | 289 |
| | | | | | Left side* | 0 | 23330 | 793 | 21 | 20.92 | 1.86% | 0.821 | 0.836 | - |
| | | | | 25 | Left side | 0 | 23330 | 793 | 21 | 20.63 | 8.89% | 0.797 | 0.868 | - |
| | | | | 49 | Left side | 0 | 23330 | 793 | 21 | 20.71 | 6.91% | 0.804 | 0.860 | - |
| | | | 25 RB | 0 | Back side | 0 | 23330 | 793 | 21 | 20.77 | 5.44% | 0.174 | 0.183 | - |
| | | | | | Top side | 0 | 23330 | 793 | 21 | 20.77 | 5.44% | 0.611 | 0.644 | - |
| | | | | | Bottom side | 0 | 23330 | 793 | 21 | 20.77 | 5.44% | 0.025 | 0.026 | - |
| | | | | | Right side | 0 | 23330 | 793 | 21 | 20.77 | 5.44% | 0.005 | 0.006 | - |
| | | | | | Left side | 0 | 23330 | 793 | 21 | 20.77 | 5.44% | 0.812 | 0.856 | - |
| | | | | 12 | Left side | 0 | 23330 | 793 | 21 | 20.63 | 8.89% | 0.794 | 0.865 | - |
| | | | | 25 | Left side | 0 | 23330 | 793 | 21 | 20.68 | 7.65% | 0.784 | 0.844 | - |
| | | | 50 RB | | Back side | 0 | 23330 | 793 | 21 | 20.62 | 9.14% | 0.163 | 0.178 | - |
| | | | | | Top side | 0 | 23330 | 793 | 21 | 20.62 | 9.14% | 0.592 | 0.646 | - |
| | | | | | Bottom side | 0 | 23330 | 793 | 21 | 20.62 | 9.14% | 0.024 | 0.026 | - |
| | | | | | Right side | 0 | 23330 | 793 | 21 | 20.62 | 9.14% | 0.005 | 0.006 | |
| | | | | | Left side | 0 | 23330 | 793 | 21 | 20.62 | 9.14% | 0.788 | 0.860 | - |

* - repeated at the highest SAR measurement according to the KDB 865664 D01

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## LTE FDD Band 17

| Mode | Bandwidth (MHz) | Modulation | RB Size | RB start | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Measured | Reported | |
| LTE Band 17 | 10MHz | QPSK | 1 RB | 0 | Back side | 0 | 23800 | 711 | 20.5 | 20.29 | 4.95% | 0.153 | 0.161 | - |
| | | | | | Top side | 0 | 23800 | 711 | 20.5 | 20.29 | 4.95% | 0.641 | 0.673 | - |
| | | | | | Bottom side | 0 | 23800 | 711 | 20.5 | 20.29 | 4.95% | 0.022 | 0.023 | - |
| | | | | | Right side | 0 | 23800 | 711 | 20.5 | 20.29 | 4.95% | 0.004 | 0.004 | - |
| | | | | | Left side | 0 | 23780 | 709 | 20.5 | 20.23 | 6.41% | 0.689 | 0.733 | - |
| | | | | | Left side | 0 | 23800 | 711 | 20.5 | 20.29 | 4.95% | 0.704 | 0.739 | 290 |
| | | | | 25 | Left side | 0 | 23790 | 710 | 20.5 | 20.25 | 5.93% | 0.672 | 0.712 | - |
| | | | 25 RB | 12 | Back side | 0 | 23780 | 709 | 20.5 | 20.28 | 5.20% | 0.133 | 0.140 | - |
| | | | | | Top side | 0 | 23780 | 709 | 20.5 | 20.28 | 5.20% | 0.621 | 0.653 | - |
| | | | | | Bottom side | 0 | 23780 | 709 | 20.5 | 20.28 | 5.20% | 0.021 | 0.022 | - |
| | | | | | Right side | 0 | 23780 | 709 | 20.5 | 20.28 | 5.20% | 0.003 | 0.004 | - |
| | | | | | Left side | 0 | 23780 | 709 | 20.5 | 20.28 | 5.20% | 0.653 | 0.687 | - |
| | | | 50 RB | | Back side | 0 | 23790 | 710 | 20.5 | 20.21 | 6.91% | 0.128 | 0.137 | - |
| | | | | | Top side | 0 | 23790 | 710 | 20.5 | 20.21 | 6.91% | 0.604 | 0.646 | - |
| | | | | | Bottom side | 0 | 23790 | 710 | 20.5 | 20.21 | 6.91% | 0.020 | 0.021 | - |
| | | | | | Right side | 0 | 23790 | 710 | 20.5 | 20.21 | 6.91% | 0.003 | 0.004 | - |
| | | | | | Left side | 0 | 23790 | 710 | 20.5 | 20.21 | 6.91% | 0.632 | 0.676 | - |

## LTE FDD Band 25

| Mode | Bandwidth (MHz) | Modulation | RB Size | RB start | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Measured | Reported | |
| LTE Band 25 | 20MHz | QPSK | 1 RB | 0 | Back side | 0 | 26365 | 1882.5 | 17 | 16.48 | 12.72% | 0.065 | 0.073 | - |
| | | | | | Top side | 0 | 26365 | 1882.5 | 17 | 16.48 | 12.72% | 0.358 | 0.404 | - |
| | | | | | Bottom side | 0 | 26365 | 1882.5 | 17 | 16.48 | 12.72% | 0.008 | 0.009 | - |
| | | | | | Right side | 0 | 26365 | 1882.5 | 17 | 16.48 | 12.72% | 0.010 | 0.011 | - |
| | | | | | Left side | 0 | 26365 | 1882.5 | 17 | 16.48 | 12.72% | 0.969 | 1.092 | 291 |
| | | | | 50 | Left side | 0 | 26140 | 1860 | 17 | 16.42 | 14.29% | 0.901 | 1.030 | - |
| | | | | | Left side | 0 | 26590 | 1905 | 17 | 16.41 | 14.55% | 0.922 | 1.056 | - |
| | | | 50 RB | 0 | Back side | 0 | 26365 | 1882.5 | 17 | 16.47 | 12.98% | 0.058 | 0.066 | - |
| | | | | | Top side | 0 | 26365 | 1882.5 | 17 | 16.47 | 12.98% | 0.320 | 0.362 | - |
| | | | | | Bottom side | 0 | 26365 | 1882.5 | 17 | 16.47 | 12.98% | 0.008 | 0.009 | - |
| | | | | | Right side | 0 | 26365 | 1882.5 | 17 | 16.47 | 12.98% | 0.009 | 0.010 | - |
| | | | | | Left side | 0 | 26140 | 1860 | 17 | 16.36 | 15.88% | 0.844 | 0.978 | - |
| | | | | | Left side | 0 | 26365 | 1882.5 | 17 | 16.47 | 12.98% | 0.867 | 0.980 | - |
| | | | | 25 | Left side | 0 | 26590 | 1905 | 17 | 16.43 | 14.02% | 0.831 | 0.948 | - |
| | | | 100 RB | | Back side | 0 | 26365 | 1882.5 | 17 | 16.35 | 16.14% | 0.051 | 0.059 | - |
| | | | | | Top side | 0 | 26365 | 1882.5 | 17 | 16.35 | 16.14% | 0.283 | 0.328 | - |
| | | | | | Bottom side | 0 | 26365 | 1882.5 | 17 | 16.35 | 16.14% | 0.006 | 0.007 | - |
| | | | | | Right side | 0 | 26365 | 1882.5 | 17 | 16.35 | 16.14% | 0.008 | 0.009 | - |
| | | | | | Left side | 0 | 26140 | 1860 | 17 | 16.28 | 18.03% | 0.006 | 0.742 | - |
| | | | | | Left side | 0 | 26365 | 1882.5 | 17 | 16.35 | 16.14% | 0.008 | 0.765 | - |
| | | | | | Left side | 0 | 26590 | 1905 | 17 | 16.32 | 16.95% | 0.765 | 0.744 | - |

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## LTE FDD Band 26

| Mode | Bandwidth (MHz) | Modulation | RB Size | RB start | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Measured | Reported | |
| LTE Band 26 | 15MHz | QPSK | 1 RB | 0 | Back side | 0 | 26965 | 841.5 | 22.5 | 22.35 | 3.51% | 0.172 | 0.178 | - |
| | | | | | Top side | 0 | 26965 | 841.5 | 22.5 | 22.35 | 3.51% | 0.631 | 0.653 | - |
| | | | | | Bottom side | 0 | 26965 | 841.5 | 22.5 | 22.35 | 3.51% | 0.027 | 0.028 | - |
| | | | | | Right side | 0 | 26965 | 841.5 | 22.5 | 22.35 | 3.51% | 0.006 | 0.006 | - |
| | | | | | Left side | 0 | 26865 | 831.5 | 22.5 | 22.30 | 4.71% | 0.827 | 0.866 | - |
| | | | | | Left side | 0 | 26965 | 841.5 | 22.5 | 22.35 | 3.51% | 0.852 | 0.882 | 292 |
| | | | | | Left side* | 0 | 26965 | 841.5 | 22.5 | 22.35 | 3.51% | 0.812 | 0.841 | - |
| | | | | 36 | Left side | 0 | 26825 | 822.5 | 22.5 | 22.24 | 6.17% | 0.813 | 0.863 | - |
| | | | 36 RB | 0 | Left side | 0 | 26825 | 822.5 | 22.5 | 22.31 | 4.47% | 0.768 | 0.802 | - |
| | | | | 18 | Left side | 0 | 26965 | 841.5 | 22.5 | 22.30 | 4.71% | 0.772 | 0.808 | - |
| | | | | 37 | Back side | 0 | 26865 | 831.5 | 22.5 | 22.34 | 3.75% | 0.152 | 0.158 | - |
| | | | | | Top side | 0 | 26865 | 831.5 | 22.5 | 22.34 | 3.75% | 0.601 | 0.624 | - |
| | | | | | Bottom side | 0 | 26865 | 831.5 | 22.5 | 22.34 | 3.75% | 0.025 | 0.026 | - |
| | | | | | Right side | 0 | 26865 | 831.5 | 22.5 | 22.34 | 3.75% | 0.004 | 0.005 | - |
| | | | | | Left side | 0 | 26865 | 831.5 | 22.5 | 22.34 | 3.75% | 0.781 | 0.810 | - |
| | | | 75 RB | | Back side | 0 | 26825 | 822.5 | 22.5 | 22.28 | 5.20% | 0.144 | 0.151 | - |
| | | | | | Top side | 0 | 26825 | 822.5 | 22.5 | 22.28 | 5.20% | 0.584 | 0.614 | - |
| | | | | | Bottom side | 0 | 26825 | 822.5 | 22.5 | 22.28 | 5.20% | 0.023 | 0.024 | - |
| | | | | | Right side | 0 | 26825 | 822.5 | 22.5 | 22.28 | 5.20% | 0.004 | 0.004 | - |
| | | | | | Left side | 0 | 26825 | 822.5 | 22.5 | 22.28 | 5.20% | 0.774 | 0.814 | - |
| | | | | | Left side | 0 | 26865 | 831.5 | 22.5 | 22.20 | 7.15% | 0.745 | 0.798 | - |
| | | | | | Left side | 0 | 26965 | 841.5 | 22.5 | 22.27 | 5.44% | 0.751 | 0.792 | - |

* - repeated at the highest SAR measurement according to the KDB 865664 D01

## LTE FDD Band 30

| Mode | Bandwidth (MHz) | Modulation | RB Size | RB start | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Measured | Reported | |
| LTE Band 30 | 10MHz | QPSK | 1 RB | 0 | Left side | 0 | 27710 | 2310 | 16.5 | 16.42 | 1.86% | 0.674 | 0.687 | - |
| | | | | 25 | Left side | 0 | 27710 | 2310 | 16.5 | 16.37 | 3.04% | 0.689 | 0.710 | - |
| | | | | 49 | Back side | 0 | 27710 | 2310 | 16.5 | 16.48 | 0.46% | 0.548 | 0.551 | - |
| | | | | | Top side | 0 | 27710 | 2310 | 16.5 | 16.48 | 0.46% | 0.671 | 0.674 | - |
| | | | | | Bottom side | 0 | 27710 | 2310 | 16.5 | 16.48 | 0.46% | 0.080 | 0.080 | - |
| | | | | | Right side | 0 | 27710 | 2310 | 16.5 | 16.48 | 0.46% | 0.013 | 0.013 | - |
| | | | | | Left side | 0 | 27710 | 2310 | 16.5 | 16.48 | 0.46% | 0.708 | 0.711 | 293 |
| | | | 25 RB | 25 | Back side | 0 | 27710 | 2310 | 17 | 16.42 | 1.86% | 0.438 | 0.446 | - |
| | | | | | Top side | 0 | 27710 | 2310 | 17 | 16.42 | 1.86% | 0.537 | 0.547 | - |
| | | | | | Bottom side | 0 | 27710 | 2310 | 17 | 16.42 | 1.86% | 0.064 | 0.065 | - |
| | | | | | Right side | 0 | 27710 | 2310 | 17 | 16.42 | 1.86% | 0.010 | 0.010 | - |
| | | | | | Left side | 0 | 27710 | 2310 | 17 | 16.42 | 1.86% | 0.566 | 0.577 | - |
| | | | 50 RB | | Back side | 0 | 27710 | 2310 | 17 | 16.30 | 4.71% | 0.411 | 0.430 | - |
| | | | | | Top side | 0 | 27710 | 2310 | 17 | 16.30 | 4.71% | 0.503 | 0.527 | - |
| | | | | | Bottom side | 0 | 27710 | 2310 | 17 | 16.30 | 4.71% | 0.060 | 0.063 | - |
| | | | | | Right side | 0 | 27710 | 2310 | 17 | 16.30 | 4.71% | 0.011 | 0.012 | - |
| | | | | | Left side | 0 | 27710 | 2310 | 17 | 16.30 | 4.71% | 0.531 | 0.556 | - |

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## LTE TDD Band 38

| Mode | Bandwidth (MHz) | Modulation | RB Size | RB start | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Measured | Reported | |
| LTE Band 38 | 20MHz | QPSK | 1 RB | 50 | Back side | 0 | 38150 | 2610 | 16.5 | 16.48 | 0.46% | 0.016 | 0.016 | - |
| | | | | | Top side | 0 | 37850 | 2580 | 16.5 | 16.42 | 1.86% | 0.095 | 0.097 | - |
| | | | | | Top side | 0 | 38150 | 2610 | 16.5 | 16.48 | 0.46% | 0.101 | 0.101 | 294 |
| | | | | | Bottom side | 0 | 38150 | 2610 | 16.5 | 16.48 | 0.46% | 0.003 | 0.003 | - |
| | | | | | Right side | 0 | 38150 | 2610 | 16.5 | 16.48 | 0.46% | 0.003 | 0.003 | - |
| | | | | | Left side | 0 | 38150 | 2610 | 16.5 | 16.48 | 0.46% | 0.031 | 0.031 | - |
| | | | | 50 | Top side | 0 | 38000 | 2595 | 16.5 | 16.39 | 2.57% | 0.091 | 0.093 | - |
| | | | 50 RB | 50 | Back side | 0 | 38000 | 2595 | 16.5 | 16.39 | 2.57% | 0.018 | 0.018 | - |
| | | | | | Top side | 0 | 38000 | 2595 | 16.5 | 16.39 | 2.57% | 0.094 | 0.096 | - |
| | | | | | Bottom side | 0 | 38000 | 2595 | 16.5 | 16.39 | 2.57% | 0.003 | 0.003 | - |
| | | | | | Right side | 0 | 38000 | 2595 | 16.5 | 16.39 | 2.57% | 0.002 | 0.003 | - |
| | | | | | Left side | 0 | 38000 | 2595 | 16.5 | 16.39 | 2.57% | 0.024 | 0.025 | - |
| | | | 100 RB | | Back side | 0 | 38000 | 2595 | 16.5 | 16.34 | 3.75% | 0.015 | 0.016 | - |
| | | | | | Top side | 0 | 38000 | 2595 | 16.5 | 16.34 | 3.75% | 0.092 | 0.095 | - |
| | | | | | Bottom side | 0 | 38000 | 2595 | 16.5 | 16.34 | 3.75% | 0.002 | 0.003 | - |
| | | | | | Right side | 0 | 38000 | 2595 | 16.5 | 16.34 | 3.75% | 0.005 | 0.005 | - |
| | | | | | Left side | 0 | 38000 | 2595 | 16.5 | 16.34 | 3.75% | 0.024 | 0.025 | - |

## LTE TDD Band 41

| Mode | Bandwidth (MHz) | Modulation | RB Size | RB start | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Measured | Reported | |
| LTE Band 41 | 20MHz | QPSK | 1 RB | 0 | Back side | 0 | 41055 | 2636.5 | 25 | 24.91 | 2.09% | 0.093 | 0.095 | - |
| | | | | | Top side | 0 | 39750 | 2506 | 25 | 24.09 | 23.31% | 0.454 | 0.560 | - |
| | | | | | Top side | 0 | 40185 | 2549.5 | 25 | 23.78 | 32.43% | 0.421 | 0.558 | - |
| | | | | | Top side | 0 | 41055 | 2636.5 | 25 | 24.91 | 2.09% | 0.577 | 0.589 | 295 |
| | | | | | Top side | 0 | 41490 | 2680 | 25 | 24.85 | 3.51% | 0.554 | 0.573 | - |
| | | | | | Bottom side | 0 | 41055 | 2636.5 | 25 | 24.91 | 2.09% | 0.012 | 0.012 | - |
| | | | | | Right side | 0 | 41055 | 2636.5 | 25 | 24.91 | 2.09% | 0.014 | 0.014 | - |
| | | | | | Left side | 0 | 41055 | 2636.5 | 25 | 24.91 | 2.09% | 0.158 | 0.161 | - |
| | | | | 99 | Top side | 0 | 40620 | 2593 | 25 | 24.07 | 23.88% | 0.419 | 0.519 | - |
| | | | 50 RB | 0 | Back side | 0 | 41055 | 2636.5 | 24 | 23.68 | 7.65% | 0.074 | 0.080 | - |
| | | | | | Top side | 0 | 41055 | 2636.5 | 24 | 23.68 | 7.65% | 0.462 | 0.497 | - |
| | | | | | Bottom side | 0 | 41055 | 2636.5 | 24 | 23.68 | 7.65% | 0.010 | 0.011 | - |
| | | | | | Right side | 0 | 41055 | 2636.5 | 24 | 23.68 | 7.65% | 0.011 | 0.012 | - |
| | | | | | Left side | 0 | 41055 | 2636.5 | 24 | 23.68 | 7.65% | 0.126 | 0.136 | - |
| | | | 100 RB | | Back side | 0 | 41055 | 2636.5 | 24 | 23.62 | 9.14% | 0.071 | 0.077 | - |
| | | | | | Top side | 0 | 41055 | 2636.5 | 24 | 23.62 | 9.14% | 0.432 | 0.472 | - |
| | | | | | Bottom side | 0 | 41055 | 2636.5 | 24 | 23.62 | 9.14% | 0.009 | 0.010 | - |
| | | | | | Right side | 0 | 41055 | 2636.5 | 24 | 23.62 | 9.14% | 0.010 | 0.011 | - |
| | | | | | Left side | 0 | 41055 | 2636.5 | 24 | 23.62 | 9.14% | 0.118 | 0.129 | - |

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## LTE FDD Band 66

| Mode | Bandwidth (MHz) | Modulation | RB Size | RB start | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Measured | Reported | |
| LTE Band 66 | 20MHz | QPSK | 1 RB | 0 | Back side | 0 | 132572 | 1770 | 18.5 | 18.30 | 4.71% | 0.073 | 0.076 | - |
| | | | | | Top side | 0 | 132572 | 1770 | 18.5 | 18.30 | 4.71% | 0.490 | 0.513 | - |
| | | | | | Bottom side | 0 | 132572 | 1770 | 18.5 | 18.30 | 4.71% | 0.007 | 0.008 | - |
| | | | | | Right side | 0 | 132572 | 1770 | 18.5 | 18.30 | 4.71% | 0.013 | 0.014 | - |
| | | | | | Left side | 0 | 132072 | 1720 | 18.5 | 18.23 | 6.41% | 1.030 | 1.096 | - |
| | | | | | Left side | 0 | 132572 | 1770 | 18.5 | 18.30 | 4.71% | 1.090 | 1.141 | 296 |
| | | | | | Left side | 0 | 132572 | 1770 | 18.5 | 18.30 | 4.71% | 1.020 | 1.068 | - |
| | | | | 99 | Left side | 0 | 132322 | 1745 | 18.5 | 18.20 | 7.15% | 0.995 | 1.066 | - |
| | | | 50 RB | 0 | Back side | 0 | 132322 | 1745 | 18.5 | 18.28 | 5.20% | 0.058 | 0.061 | - |
| | | | | | Top side | 0 | 132322 | 1745 | 18.5 | 18.28 | 5.20% | 0.392 | 0.412 | - |
| | | | | | Bottom side | 0 | 132322 | 1745 | 18.5 | 18.28 | 5.20% | 0.006 | 0.007 | - |
| | | | | | Right side | 0 | 132322 | 1745 | 18.5 | 18.28 | 5.20% | 0.012 | 0.013 | - |
| | | | | | Left side | 0 | 132322 | 1745 | 18.5 | 18.28 | 5.20% | 0.872 | 0.917 | - |
| | | | | 25 | Left side | 0 | 132072 | 1720 | 18.5 | 18.28 | 5.20% | 0.854 | 0.898 | - |
| | | | | 50 | Left side | 0 | 132572 | 1770 | 18.5 | 18.18 | 7.65% | 0.845 | 0.910 | - |
| | | | 100 RB | | Back side | 0 | 132572 | 1770 | 18.5 | 18.28 | 5.20% | 0.055 | 0.058 | - |
| | | | | | Top side | 0 | 132572 | 1770 | 18.5 | 18.28 | 5.20% | 0.368 | 0.387 | - |
| | | | | | Bottom side | 0 | 132572 | 1770 | 18.5 | 18.28 | 5.20% | 0.006 | 0.006 | - |
| | | | | | Right side | 0 | 132572 | 1770 | 18.5 | 18.28 | 5.20% | 0.011 | 0.012 | - |
| | | | | | Left side | 0 | 132072 | 1720 | 18.5 | 18.18 | 7.65% | 0.801 | 0.862 | - |
| | | | | | Left side | 0 | 132322 | 1745 | 18.5 | 18.12 | 9.14% | 0.792 | 0.864 | - |
| | | | | | Left side | 0 | 132572 | 1770 | 18.5 | 18.28 | 5.20% | 0.818 | 0.861 | - |

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## WLAN Antenna (Tablet mode)

| Antenna | Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Measured | Reported | |
| Main | WLAN802.11 b | Back side | 0 | 1 | 2412 | 18.00 | 17.93 | 101.62% | 0.196 | 0.199 | - |
| | | Top side | 0 | 1 | 2412 | 18.00 | 17.93 | 101.62% | 0.688 | 0.699 | 297 |
| | | Top side | 0 | 6 | 2437 | 18.00 | 17.92 | 101.86% | 0.615 | 0.626 | - |
| | | Top side | 0 | 11 | 2462 | 18.00 | 17.87 | 103.04% | 0.599 | 0.617 | - |
| | | Bottom side | 0 | 1 | 2412 | 18.00 | 17.93 | 101.62% | 0.005 | 0.005 | - |
| | | Right side | 0 | 1 | 2412 | 18.00 | 17.93 | 101.62% | 0.010 | 0.010 | - |
| | | Left side | 0 | 1 | 2412 | 18.00 | 17.93 | 101.62% | 0.146 | 0.148 | - |
| | WLAN802.11 n(40M) 5.2G | Back side | 0 | 46 | 5230 | 16.00 | 15.88 | 102.80% | 0.219 | 0.225 | - |
| | | Top side | 0 | 46 | 5230 | 16.00 | 15.88 | 102.80% | 0.664 | 0.683 | 298 |
| | | Bottom side | 0 | 46 | 5230 | 16.00 | 15.88 | 102.80% | 0.095 | 0.098 | - |
| | | Right side | 0 | 46 | 5230 | 16.00 | 15.88 | 102.80% | 0.034 | 0.035 | - |
| | | Left side | 0 | 46 | 5230 | 16.00 | 15.88 | 102.80% | 0.069 | 0.071 | - |
| | WLAN802.11 n(40M) 5.3G | Back side | 0 | 54 | 5270 | 16.00 | 15.93 | 101.62% | 0.171 | 0.174 | - |
| | | Top side | 0 | 54 | 5270 | 16.00 | 15.93 | 101.62% | 0.520 | 0.528 | 299 |
| | | Bottom side | 0 | 54 | 5270 | 16.00 | 15.93 | 101.62% | 0.074 | 0.075 | - |
| | | Right side | 0 | 54 | 5270 | 16.00 | 15.93 | 101.62% | 0.025 | 0.025 | - |
| | | Left side | 0 | 54 | 5270 | 16.00 | 15.93 | 101.62% | 0.090 | 0.091 | - |
| | WLAN802.11 ac(80M) 5.6G | Back side | 0 | 138 | 5690 | 16.00 | 15.86 | 103.28% | 0.180 | 0.186 | - |
| | | Top side | 0 | 138 | 5690 | 16.00 | 15.86 | 103.28% | 0.622 | 0.642 | 300 |
| | | Bottom side | 0 | 138 | 5690 | 16.00 | 15.86 | 103.28% | 0.081 | 0.084 | - |
| | | Right side | 0 | 138 | 5690 | 16.00 | 15.86 | 103.28% | 0.030 | 0.031 | - |
| | | Left side | 0 | 138 | 5690 | 16.00 | 15.86 | 103.28% | 0.078 | 0.080 | - |
| | WLAN802.11 ac(80M) 5.8G | Back side | 0 | 155 | 5775 | 16.00 | 15.86 | 103.28% | 0.183 | 0.189 | - |
| | | Top side | 0 | 155 | 5775 | 16.00 | 15.86 | 103.28% | 0.661 | 0.683 | 301 |
| | | Bottom side | 0 | 155 | 5775 | 16.00 | 15.86 | 103.28% | 0.093 | 0.096 | - |
| | | Right side | 0 | 155 | 5775 | 16.00 | 15.86 | 103.28% | 0.039 | 0.040 | - |
| | | Left side | 0 | 155 | 5775 | 16.00 | 15.86 | 103.28% | 0.099 | 0.102 | - |

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## WLAN Aux Antenna (Tablet mode)

| Antenna | Mode | Position | Distance (mm) | CH | Freq. (MHz) | Max. Rated Avg. Power + Max. Tolerance (dBm) | Measured Avg. Power (dBm) | Scaling | Averaged SAR over 1g (W/kg) | | Plot page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Measured | Reported | |
| Aux | WLAN802.11 b | Back side | 0 | 1 | 2412 | 18.00 | 17.97 | 100.69% | 0.181 | 0.182 | - |
| | | Top side | 0 | 1 | 2412 | 18.00 | 17.97 | 100.69% | 0.540 | 0.544 | 302 |
| | | Bottom side | 0 | 1 | 2412 | 18.00 | 17.97 | 100.69% | 0.013 | 0.013 | - |
| | | Right side | 0 | 1 | 2412 | 18.00 | 17.97 | 100.69% | 0.070 | 0.070 | - |
| | | Left side | 0 | 1 | 2412 | 18.00 | 17.97 | 100.69% | 0.003 | 0.003 | - |
| | Bluetooth(GFSK) | Back side | 0 | 39 | 2441 | 11.50 | 11.15 | 108.39% | 0.037 | 0.040 | - |
| | | Top side | 0 | 39 | 2441 | 11.50 | 11.15 | 108.39% | 0.106 | 0.115 | 303 |
| | | Bottom side | 0 | 39 | 2441 | 11.50 | 11.15 | 108.39% | 0.003 | 0.003 | - |
| | | Right side | 0 | 39 | 2441 | 11.50 | 11.15 | 108.39% | 0.014 | 0.015 | - |
| | | Left side | 0 | 39 | 2441 | 11.50 | 11.15 | 108.39% | 0.001 | 0.001 | - |
| | WLAN802.11 n(40M) 5.2G | Back side | 0 | 38 | 5190 | 16.50 | 16.48 | 100.46% | 0.218 | 0.219 | - |
| | | Top side | 0 | 38 | 5190 | 16.50 | 16.48 | 100.46% | 0.761 | 0.765 | 304 |
| | | Bottom side | 0 | 38 | 5190 | 16.50 | 16.48 | 100.46% | 0.044 | 0.044 | - |
| | | Right side | 0 | 38 | 5190 | 16.50 | 16.48 | 100.46% | 0.067 | 0.067 | - |
| | | Left side | 0 | 38 | 5190 | 16.50 | 16.48 | 100.46% | 0.050 | 0.050 | - |
| | WLAN802.11 n(40M) 5.3G | Back side | 0 | 54 | 5270 | 16.50 | 16.36 | 103.28% | 0.193 | 0.199 | - |
| | | Top side | 0 | 54 | 5270 | 16.50 | 16.36 | 103.28% | 0.654 | 0.675 | 305 |
| | | Bottom side | 0 | 54 | 5270 | 16.50 | 16.36 | 103.28% | 0.058 | 0.060 | - |
| | | Right side | 0 | 54 | 5270 | 16.50 | 16.36 | 103.28% | 0.091 | 0.094 | - |
| | | Left side | 0 | 54 | 5270 | 16.50 | 16.36 | 103.28% | 0.061 | 0.063 | - |
| | WLAN802.11 ac(80M) 5.6G | Back side | 0 | 138 | 5690 | 16.50 | 16.33 | 103.99% | 0.262 | 0.272 | - |
| | | Top side | 0 | 106 | 5530 | 14.00 | 13.90 | 102.33% | 0.745 | 0.762 | - |
| | | Top side | 0 | 138 | 5690 | 16.50 | 16.33 | 103.99% | 0.766 | 0.797 | 306 |
| | | Bottom side | 0 | 138 | 5690 | 16.50 | 16.33 | 103.99% | 0.041 | 0.043 | - |
| | | Right side | 0 | 138 | 5690 | 16.50 | 16.33 | 103.99% | 0.034 | 0.035 | - |
| | | Left side | 0 | 138 | 5690 | 16.50 | 16.33 | 103.99% | 0.042 | 0.043 | - |
| | WLAN802.11 ac(80M) 5.8G | Back side | 0 | 155 | 5775 | 16.50 | 16.50 | 100.00% | 0.157 | 0.157 | - |
| | | Top side | 0 | 155 | 5775 | 16.50 | 16.50 | 100.00% | 0.647 | 0.647 | 307 |
| | | Bottom side | 0 | 155 | 5775 | 16.50 | 16.50 | 100.00% | 0.031 | 0.031 | - |
| | | Right side | 0 | 155 | 5775 | 16.50 | 16.50 | 100.00% | 0.015 | 0.015 | - |
| | | Left side | 0 | 155 | 5775 | 16.50 | 16.50 | 100.00% | 0.033 | 0.033 | - |

Note:

Scaling = $\frac{\text{reported SAR}}{\text{measured SAR}} = \frac{P2(mW)}{P1(mW)} = 10^{\left(\frac{Pa-Pc}{dB}\right)(dBm)}$

Reported SAR = measured SAR * (scaling)

Where P2 is maximum specified power, P1 is measured conducted power

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# 3. Simultaneous Transmission Analysis

## Simultaneous Transmission Scenarios:

| NO. | Simultaneous Transmit Configurations | Body |
|---|---|---|
| 1 | UMTS + 2.4GHz WLAN Main / 2.4GHz WLAN Aux / 2.4GHz MIMO | YES |
| 2 | UMTS + 5GHz WLAN Main / 5GHz WLAN Aux / 5GHz MIMO | YES |
| 3 | UMTS + BT | YES |
| 4 | UMTS + 2.4/5GHz WLAN Maiin + BT | YES |
| 5 | LTE + 2.4GHz WLAN Main / 2.4GHz WLAN Aux / 2.4GHz MIMO | YES |
| 6 | LTE + 5GHz WLAN Main / 5GHz WLAN Aux / 5GHz MIMO | YES |
| 7 | LTE + BT | YES |
| 8 | LTE + 2.4/5GHz WLAN Main + BT | YES |

Note :
1) WWAN and WLAN may transmit simultaneously.
2) Bluetooth and WLAN Aux share the same antenna path.
3) Bluetooth can transmit with WLAN Main simultaneously.

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### 3.1 Estimated SAR calculation

According to KDB447498 D01v06 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$$\text{Estimated SAR} = \frac{\text{Max. tune up power (mW)}}{\text{Min. test separation distance(mm)}} \times \frac{\sqrt{f(\text{GHz})}}{7.5}$$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1g.

### 3.2 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion.

The ratio is determined by **(SAR1 + SAR2)^1.5/Ri**, rounded to two decimal digits, and must be **≤ 0.04** for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and Ri is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

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## Back side WWAN + 2.4G WLAN

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Max. WLAN Aux | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 1 | Back side | WCDMA Band II | 0 | 0.079 | 0.199 | 0.182 | 0.460 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 0.085 | 0.199 | 0.182 | 0.466 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.201 | 0.199 | 0.182 | 0.582 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 0.069 | 0.199 | 0.182 | 0.450 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 0.079 | 0.199 | 0.182 | 0.460 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.170 | 0.199 | 0.182 | 0.551 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.236 | 0.199 | 0.182 | 0.617 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.142 | 0.199 | 0.182 | 0.523 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.188 | 0.199 | 0.182 | 0.569 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.185 | 0.199 | 0.182 | 0.566 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.161 | 0.199 | 0.182 | 0.542 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 0.073 | 0.199 | 0.182 | 0.454 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.178 | 0.199 | 0.182 | 0.559 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.551 | 0.199 | 0.182 | 0.932 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.018 | 0.199 | 0.182 | 0.399 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.095 | 0.199 | 0.182 | 0.476 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 0.076 | 0.199 | 0.182 | 0.457 | ΣSAR<1.6, Not required |

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## Back side WWAN + 5G WLAN

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Max. WLAN Aux | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 2 | Back side | WCDMA Band II | 0 | 0.079 | 0.225 | 0.272 | 0.576 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 0.085 | 0.225 | 0.272 | 0.582 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.201 | 0.225 | 0.272 | 0.698 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 0.069 | 0.225 | 0.272 | 0.566 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 0.079 | 0.225 | 0.272 | 0.576 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.170 | 0.225 | 0.272 | 0.667 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.236 | 0.225 | 0.272 | 0.733 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.142 | 0.225 | 0.272 | 0.639 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.188 | 0.225 | 0.272 | 0.685 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.185 | 0.225 | 0.272 | 0.682 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.161 | 0.225 | 0.272 | 0.658 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 0.073 | 0.225 | 0.272 | 0.570 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.178 | 0.225 | 0.272 | 0.675 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.551 | 0.225 | 0.272 | 1.048 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.018 | 0.225 | 0.272 | 0.515 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.095 | 0.225 | 0.272 | 0.592 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 0.076 | 0.225 | 0.272 | 0.573 | ΣSAR<1.6, Not required |

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## Back side WWAN + 2.4G WLAN Main + BT

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Bluetooth | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 3 | Back side | WCDMA Band II | 0 | 0.079 | 0.199 | 0.040 | 0.318 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 0.085 | 0.199 | 0.040 | 0.324 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.201 | 0.199 | 0.040 | 0.440 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 0.069 | 0.199 | 0.040 | 0.308 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 0.079 | 0.199 | 0.040 | 0.318 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.170 | 0.199 | 0.040 | 0.409 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.236 | 0.199 | 0.040 | 0.475 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.142 | 0.199 | 0.040 | 0.381 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.188 | 0.199 | 0.040 | 0.427 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.185 | 0.199 | 0.040 | 0.424 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.161 | 0.199 | 0.040 | 0.400 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 0.073 | 0.199 | 0.040 | 0.312 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.178 | 0.199 | 0.040 | 0.417 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.551 | 0.199 | 0.040 | 0.790 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.018 | 0.199 | 0.040 | 0.257 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.095 | 0.199 | 0.040 | 0.334 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 0.076 | 0.199 | 0.040 | 0.315 | ΣSAR<1.6, Not required |

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## Back side WWAN + 5G WLAN Main + BT

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Bluetooth | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 4 | Back side | WCDMA Band II | 0 | 0.079 | 0.225 | 0.040 | 0.344 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 0.085 | 0.225 | 0.040 | 0.350 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.201 | 0.225 | 0.040 | 0.466 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 0.069 | 0.225 | 0.040 | 0.334 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 0.079 | 0.225 | 0.040 | 0.344 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.170 | 0.225 | 0.040 | 0.435 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.236 | 0.225 | 0.040 | 0.501 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.142 | 0.225 | 0.040 | 0.407 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.188 | 0.225 | 0.040 | 0.453 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.185 | 0.225 | 0.040 | 0.450 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.161 | 0.225 | 0.040 | 0.426 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 0.073 | 0.225 | 0.040 | 0.338 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.178 | 0.225 | 0.040 | 0.443 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.551 | 0.225 | 0.040 | 0.816 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.018 | 0.225 | 0.040 | 0.283 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.095 | 0.225 | 0.040 | 0.360 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 0.076 | 0.225 | 0.040 | 0.341 | ΣSAR<1.6, Not required |

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## Top side WWAN + 2.4G WLAN

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Max. WLAN Aux | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 5 | Top side | WCDMA Band II | 0 | 0.434 | 0.699 | 0.544 | **1.677** | Analyzed as below |
| | | WCDMA Band IV | 0 | 0.554 | 0.699 | 0.544 | **1.797** | Analyzed as below |
| | | WCDMA Band V | 0 | 0.777 | 0.699 | 0.544 | **2.020** | Analyzed as below |
| | | LTE Band 2 | 0 | 0.385 | 0.699 | 0.544 | **1.628** | Analyzed as below |
| | | LTE Band 4 | 0 | 0.523 | 0.699 | 0.544 | **1.766** | Analyzed as below |
| | | LTE Band 5 | 0 | 0.681 | 0.699 | 0.544 | **1.924** | Analyzed as below |
| | | LTE Band 7 | 0 | 0.670 | 0.699 | 0.544 | **1.913** | Analyzed as below |
| | | LTE Band 12 | 0 | 0.660 | 0.699 | 0.544 | **1.903** | Analyzed as below |
| | | LTE Band 13 | 0 | 0.680 | 0.699 | 0.544 | **1.923** | Analyzed as below |
| | | LTE Band 14 | 0 | 0.653 | 0.699 | 0.544 | **1.896** | Analyzed as below |
| | | LTE Band 17 | 0 | 0.673 | 0.699 | 0.544 | **1.916** | Analyzed as below |
| | | LTE Band 25 | 0 | 0.404 | 0.699 | 0.544 | **1.647** | Analyzed as below |
| | | LTE Band 26 | 0 | 0.653 | 0.699 | 0.544 | **1.896** | Analyzed as below |
| | | LTE Band 30 | 0 | 0.674 | 0.699 | 0.544 | **1.917** | Analyzed as below |
| | | LTE Band 38 | 0 | 0.101 | 0.699 | 0.544 | 1.344 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.589 | 0.699 | 0.544 | **1.832** | Analyzed as below |
| | | LTE Band 66 | 0 | 0.513 | 0.699 | 0.544 | **1.756** | Analyzed as below |

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## Top side WWAN + 5G WLAN

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Max. WLAN Aux | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 6 | Top side | WCDMA Band II | 0 | 0.434 | 0.683 | 0.797 | **1.914** | Analyzed as below |
| | | WCDMA Band IV | 0 | 0.554 | 0.683 | 0.797 | **2.034** | Analyzed as below |
| | | WCDMA Band V | 0 | 0.777 | 0.683 | 0.797 | **2.257** | Analyzed as below |
| | | LTE Band 2 | 0 | 0.385 | 0.683 | 0.797 | **1.865** | Analyzed as below |
| | | LTE Band 4 | 0 | 0.523 | 0.683 | 0.797 | **2.003** | Analyzed as below |
| | | LTE Band 5 | 0 | 0.681 | 0.683 | 0.797 | **2.161** | Analyzed as below |
| | | LTE Band 7 | 0 | 0.670 | 0.683 | 0.797 | **2.150** | Analyzed as below |
| | | LTE Band 12 | 0 | 0.660 | 0.683 | 0.797 | **2.140** | Analyzed as below |
| | | LTE Band 13 | 0 | 0.680 | 0.683 | 0.797 | **2.160** | Analyzed as below |
| | | LTE Band 14 | 0 | 0.653 | 0.683 | 0.797 | **2.133** | Analyzed as below |
| | | LTE Band 17 | 0 | 0.673 | 0.683 | 0.797 | **2.153** | Analyzed as below |
| | | LTE Band 25 | 0 | 0.404 | 0.683 | 0.797 | **1.884** | Analyzed as below |
| | | LTE Band 26 | 0 | 0.653 | 0.683 | 0.797 | **2.133** | Analyzed as below |
| | | LTE Band 30 | 0 | 0.674 | 0.683 | 0.797 | **2.154** | Analyzed as below |
| | | LTE Band 38 | 0 | 0.101 | 0.683 | 0.797 | 1.581 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.589 | 0.683 | 0.797 | **2.069** | Analyzed as below |
| | | LTE Band 66 | 0 | 0.513 | 0.683 | 0.797 | **1.993** | Analyzed as below |

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## Top side WWAN + 2.4G WLAN Main + BT

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Bluetooth | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 7 | Top side | WCDMA Band II | 0 | 0.434 | 0.699 | 0.115 | 1.248 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 0.554 | 0.699 | 0.115 | 1.368 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.777 | 0.699 | 0.115 | 1.591 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 0.385 | 0.699 | 0.115 | 1.199 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 0.523 | 0.699 | 0.115 | 1.337 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.681 | 0.699 | 0.115 | 1.495 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.670 | 0.699 | 0.115 | 1.484 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.660 | 0.699 | 0.115 | 1.474 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.680 | 0.699 | 0.115 | 1.494 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.653 | 0.699 | 0.115 | 1.467 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.673 | 0.699 | 0.115 | 1.487 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 0.404 | 0.699 | 0.115 | 1.218 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.653 | 0.699 | 0.115 | 1.467 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.674 | 0.699 | 0.115 | 1.488 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.101 | 0.699 | 0.115 | 0.915 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.589 | 0.699 | 0.115 | 1.403 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 0.513 | 0.699 | 0.115 | 1.327 | ΣSAR<1.6, Not required |

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## Top side WWAN + 5G WLAN Main + BT

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Bluetooth | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 8 | Top side | WCDMA Band II | 0 | 0.434 | 0.683 | 0.115 | 1.232 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 0.554 | 0.683 | 0.115 | 1.352 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.777 | 0.683 | 0.115 | 1.575 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 0.385 | 0.683 | 0.115 | 1.183 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 0.523 | 0.683 | 0.115 | 1.321 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.681 | 0.683 | 0.115 | 1.479 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.670 | 0.683 | 0.115 | 1.468 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.660 | 0.683 | 0.115 | 1.458 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.680 | 0.683 | 0.115 | 1.478 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.653 | 0.683 | 0.115 | 1.451 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.673 | 0.683 | 0.115 | 1.471 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 0.404 | 0.683 | 0.115 | 1.202 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.653 | 0.683 | 0.115 | 1.451 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.674 | 0.683 | 0.115 | 1.472 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.101 | 0.683 | 0.115 | 0.899 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.589 | 0.683 | 0.115 | 1.387 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 0.513 | 0.683 | 0.115 | 1.311 | ΣSAR<1.6, Not required |

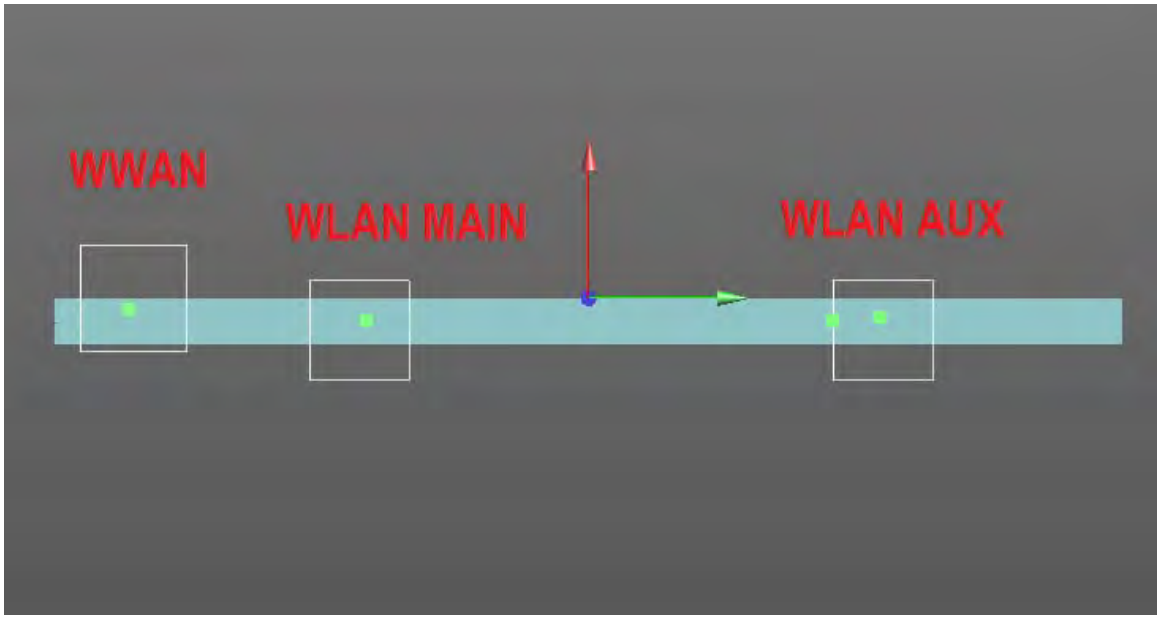
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## Top side WWAN + 2.4G WLAN

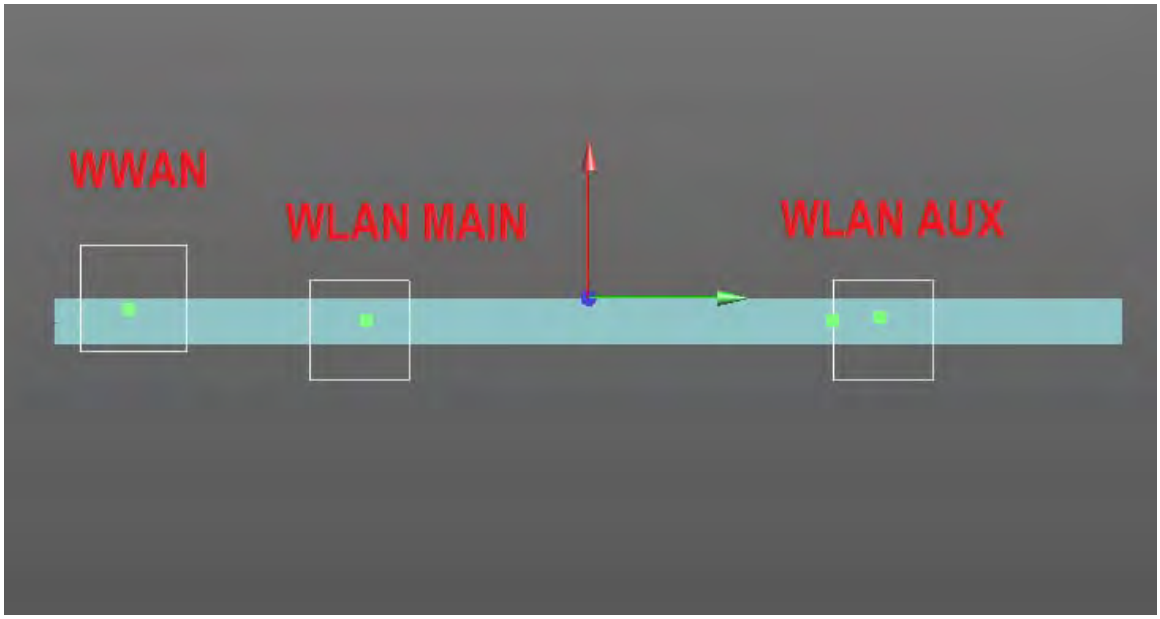
| Position | Conditions | SAR Value (W/kg) | Coordinates (cm) | | | ΣSAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|---|---|---|---|---|---|---|---|---|---|
| | | | x | y | z | | | | |
| Top side | WLAN Main | 0.544 | -0.66 | -6.68 | -0.44 | - | - | - | - |
| | WLAN Aux | 0.699 | -0.56 | 8.74 | -0.44 | 1.243 | 154.20 | 0.009 | SPLSR ≤ 0.04, Not required |
| | WCDMA Band II | 0.434 | -0.32 | -13.81 | -0.37 | 0.978 | 71.38 | 0.014 | SPLSR ≤ 0.04, Not required |
| | WCDMA Band IV | 0.554 | -0.31 | -13.65 | -0.37 | 1.098 | 69.79 | 0.016 | SPLSR ≤ 0.04, Not required |
| | WCDMA Band V | 0.777 | -0.15 | -11.85 | -0.46 | 1.321 | 51.95 | 0.029 | SPLSR ≤ 0.04, Not required |
| | LTE Band 2 | 0.385 | -0.32 | -13.81 | -0.37 | 0.929 | 71.38 | 0.013 | SPLSR ≤ 0.04, Not required |
| | LTE Band 4 | 0.523 | -0.31 | -13.65 | -0.37 | 1.067 | 69.79 | 0.016 | SPLSR ≤ 0.04, Not required |
| | LTE Band 5 | 0.681 | -0.15 | -11.85 | -0.46 | 1.225 | 51.95 | 0.026 | SPLSR ≤ 0.04, Not required |
| | LTE Band 7 | 0.670 | -0.24 | -12.74 | -0.35 | 1.214 | 60.75 | 0.022 | SPLSR ≤ 0.04, Not required |
| | LTE Band 12 | 0.660 | -0.15 | -1.16 | -0.46 | 1.204 | 55.46 | 0.024 | SPLSR ≤ 0.04, Not required |
| | LTE Band 13 | 0.680 | -0.15 | -11.85 | -0.46 | 1.224 | 51.95 | 0.026 | SPLSR ≤ 0.04, Not required |
| | LTE Band 14 | 0.653 | -0.15 | -11.80 | -0.46 | 1.197 | 51.45 | 0.025 | SPLSR ≤ 0.04, Not required |
| | LTE Band 17 | 0.673 | -0.15 | -11.85 | -0.46 | 1.217 | 51.95 | 0.026 | SPLSR ≤ 0.04, Not required |
| | LTE Band 25 | 0.404 | -0.32 | -13.81 | -0.67 | 0.948 | 71.42 | 0.013 | SPLSR ≤ 0.04, Not required |
| | LTE Band 26 | 0.653 | -0.15 | -11.85 | -0.46 | 1.197 | 51.95 | 0.025 | SPLSR ≤ 0.04, Not required |
| | LTE Band 30 | 0.674 | -0.34 | -13.24 | -0.38 | 1.218 | 65.68 | 0.020 | SPLSR ≤ 0.04, Not required |
| | LTE Band 41 | 0.589 | -0.38 | -9.94 | -0.42 | 1.133 | 32.72 | 0.037 | SPLSR ≤ 0.04, Not required |
| | LTE Band 66 | 0.513 | -0.31 | -13.65 | -0.37 | 1.057 | 69.79 | 0.016 | SPLSR ≤ 0.04, Not required |

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WCDMA Band II

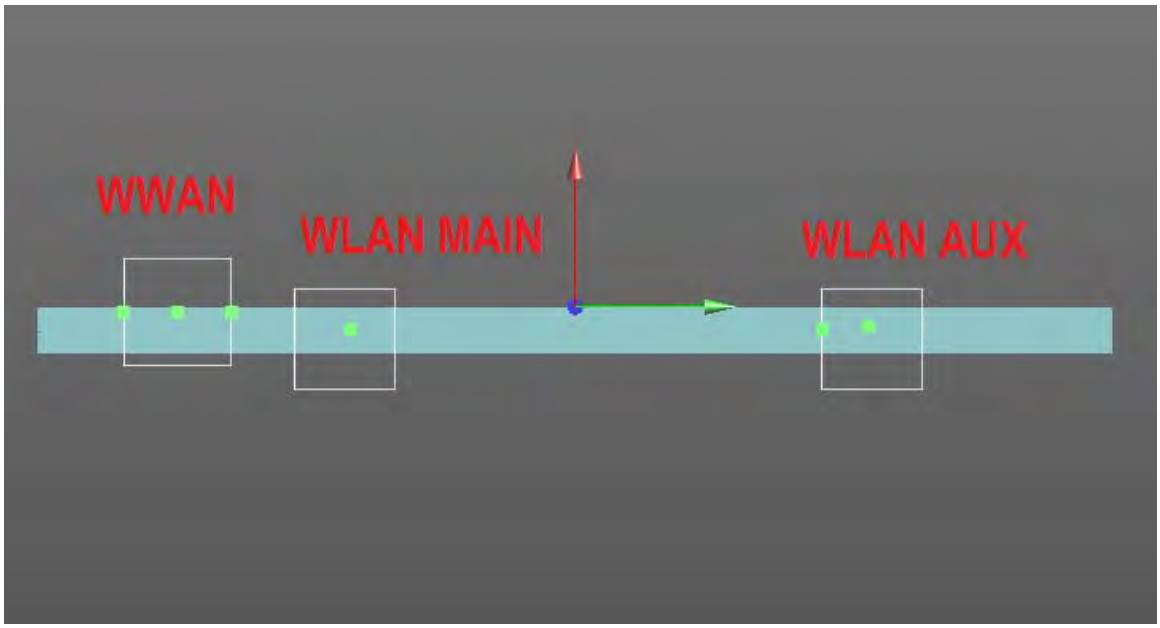



WCDMA Band IV

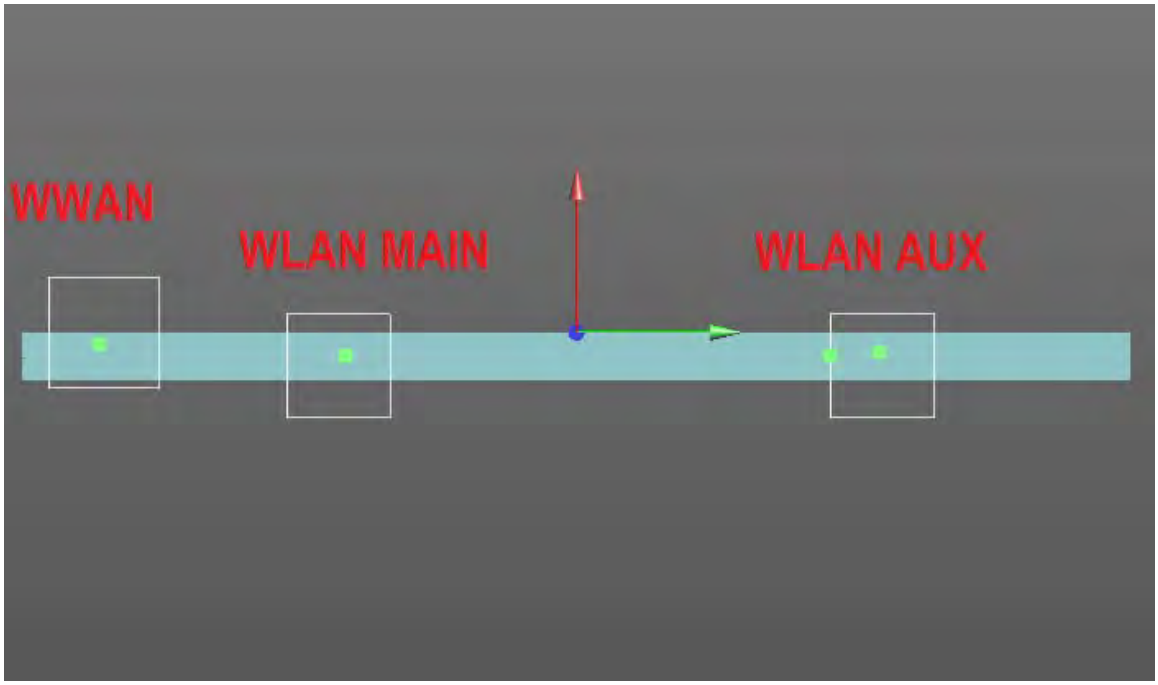



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WCDMA Band V

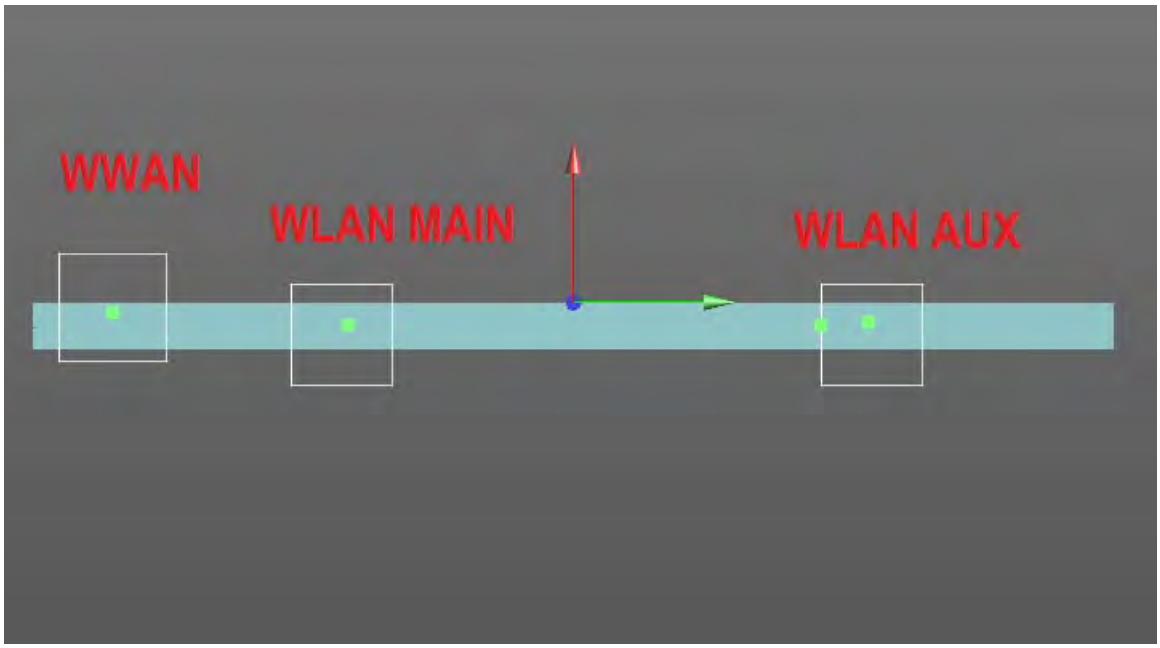



LTE Band 2

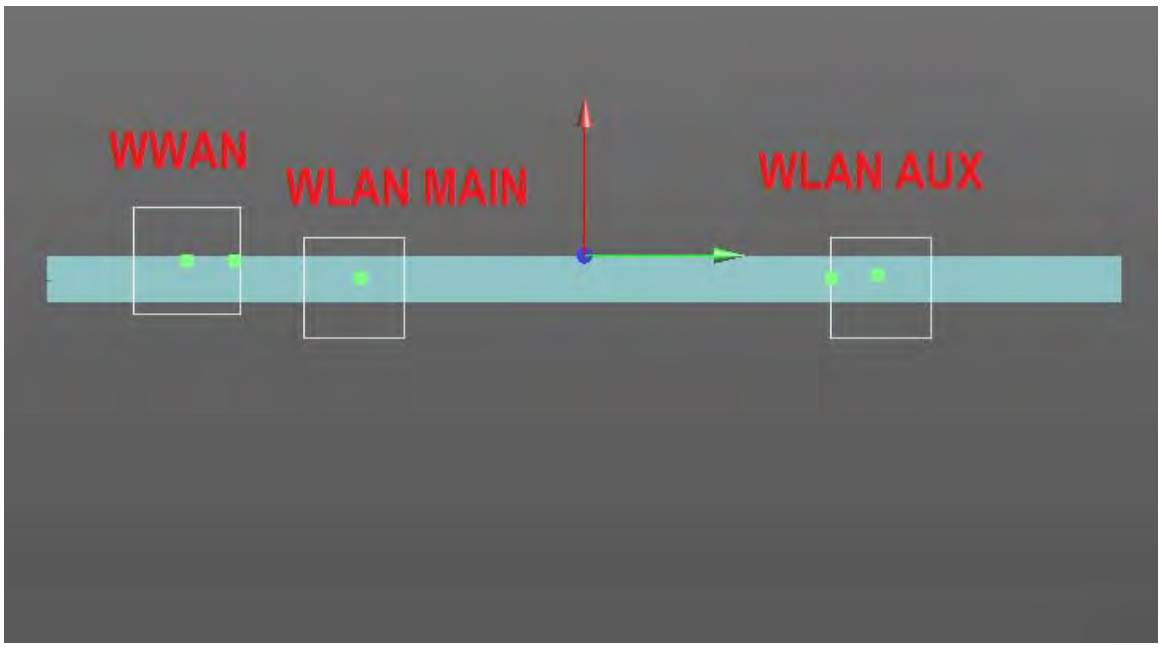



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LTE Band 4

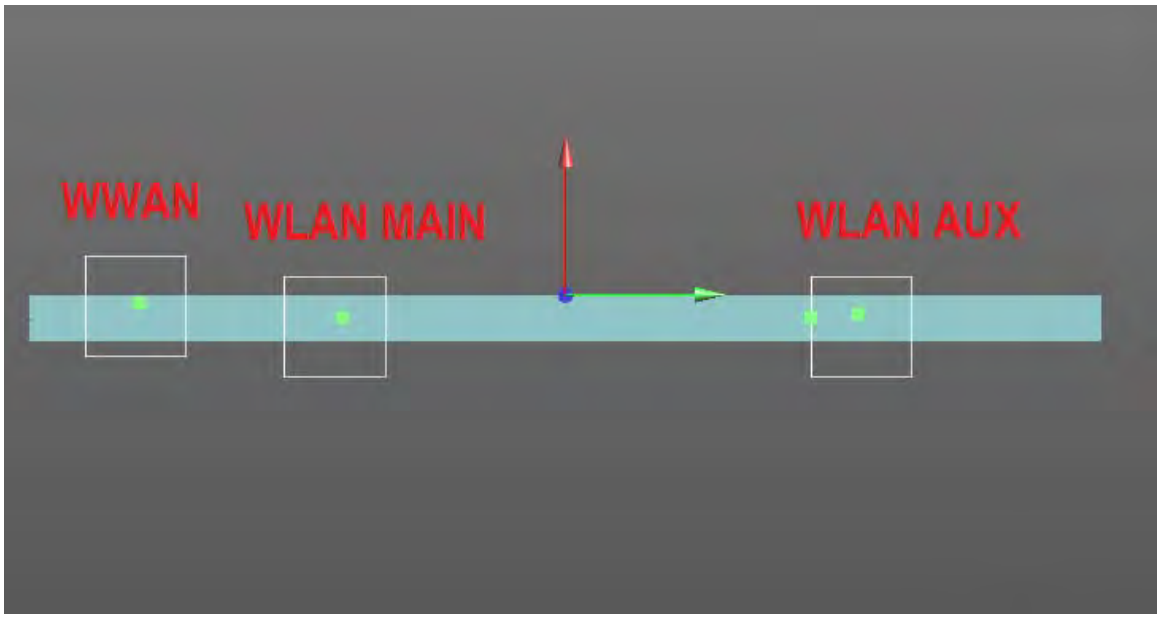



LTE Band 5

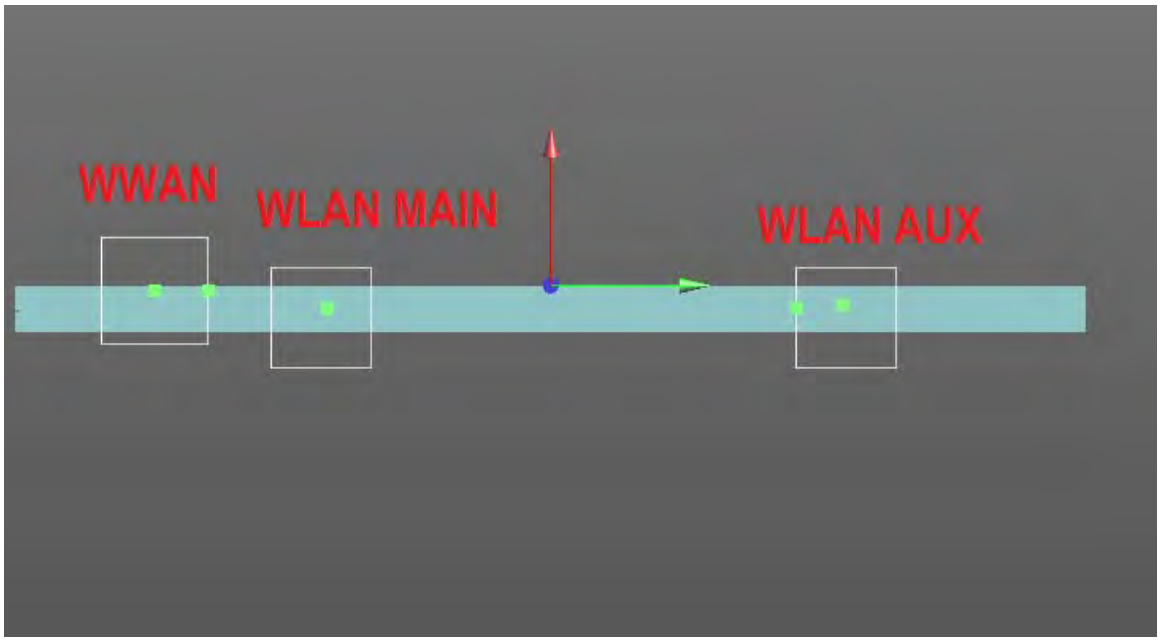



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LTE Band 7

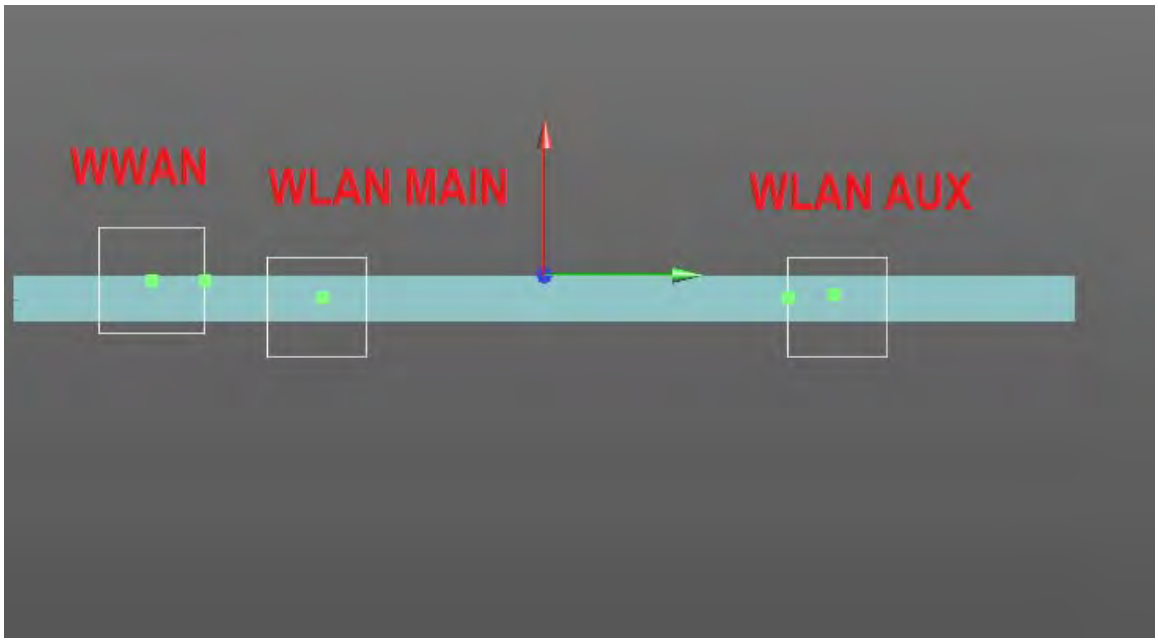



LTE Band 12

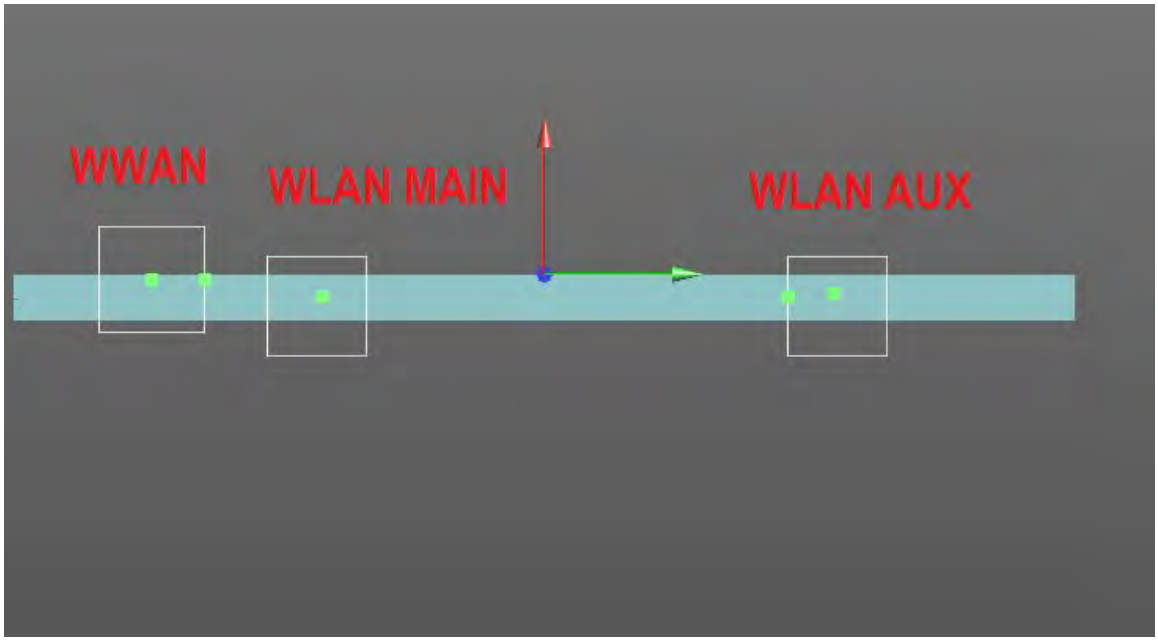



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LTE Band 13

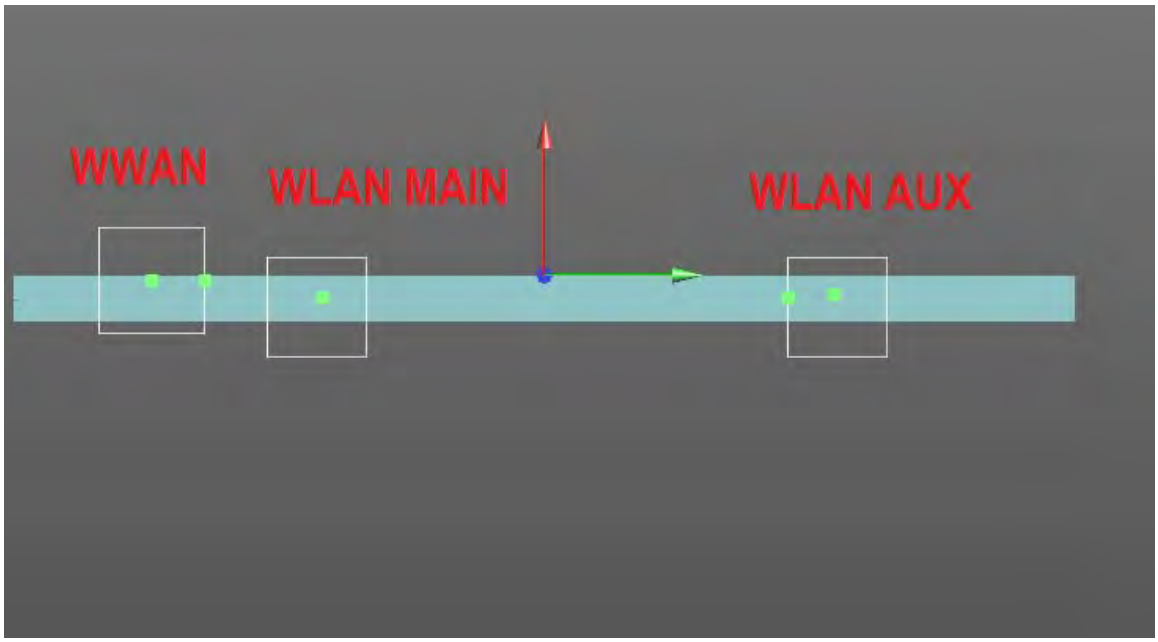



LTE Band 14

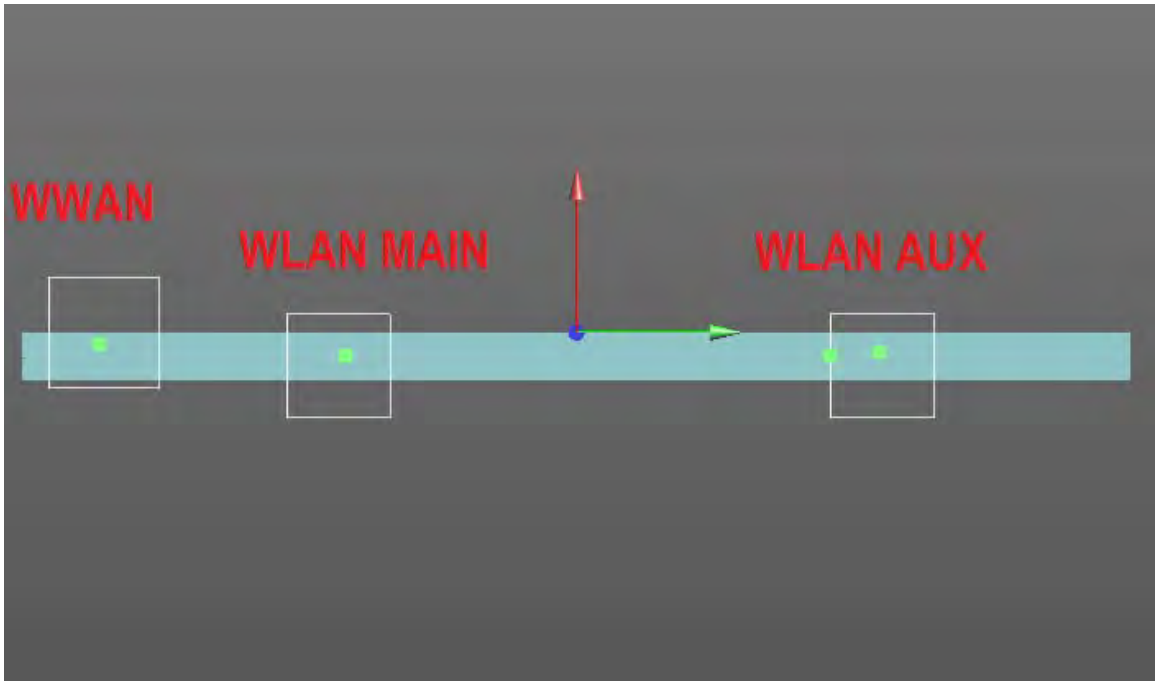



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LTE Band 17

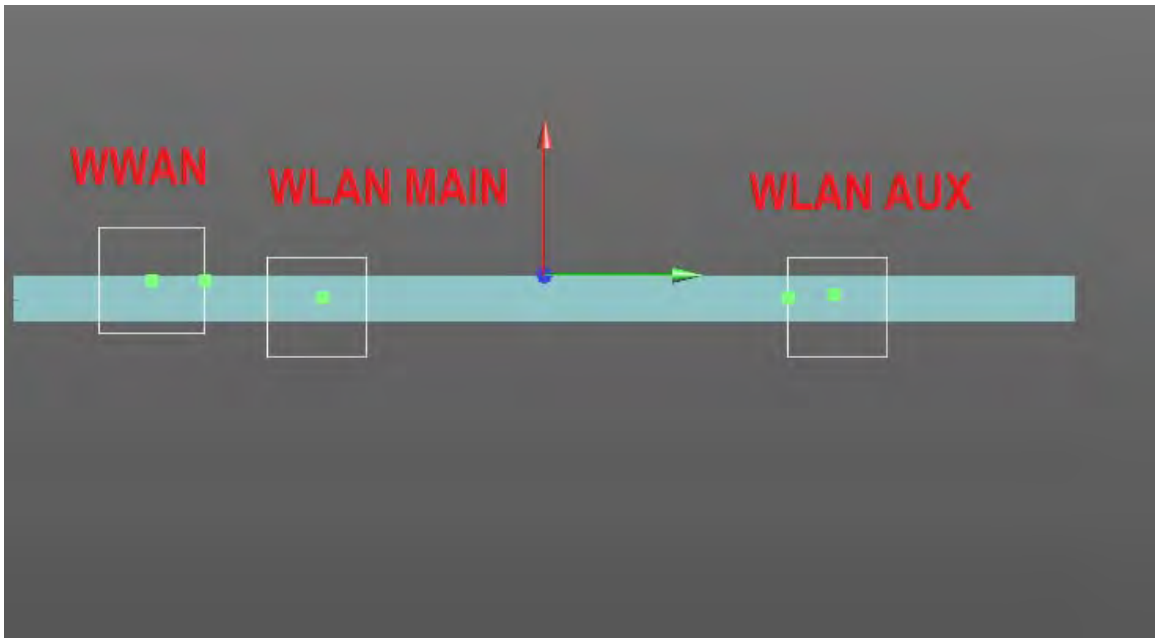



LTE Band 25

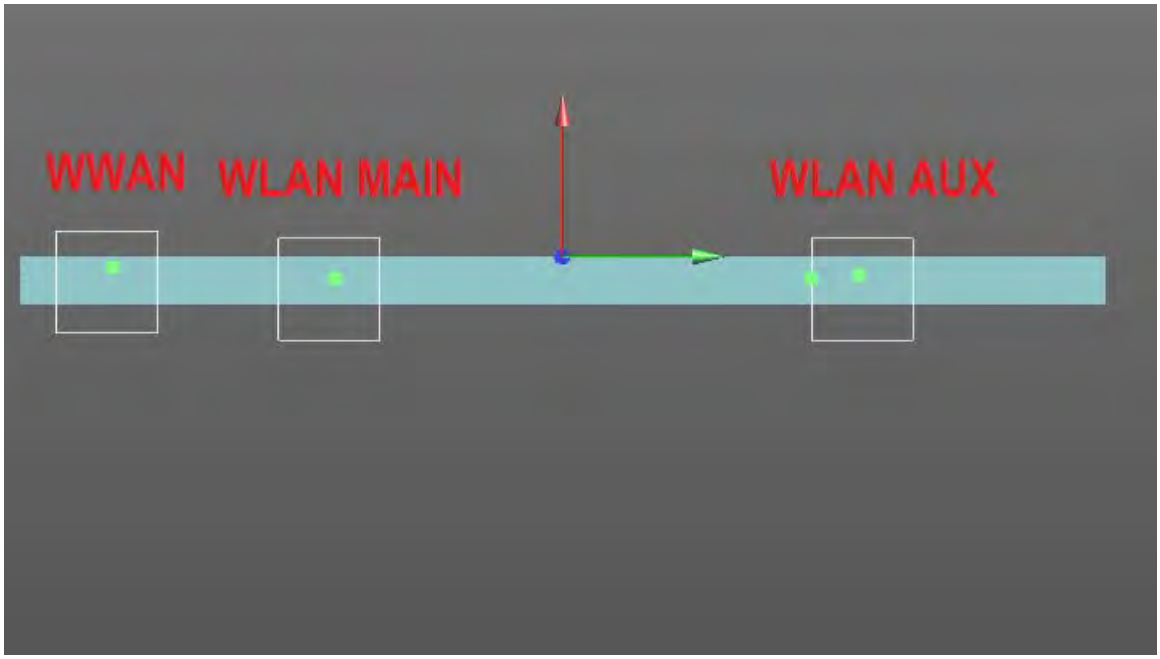



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LTE Band 26

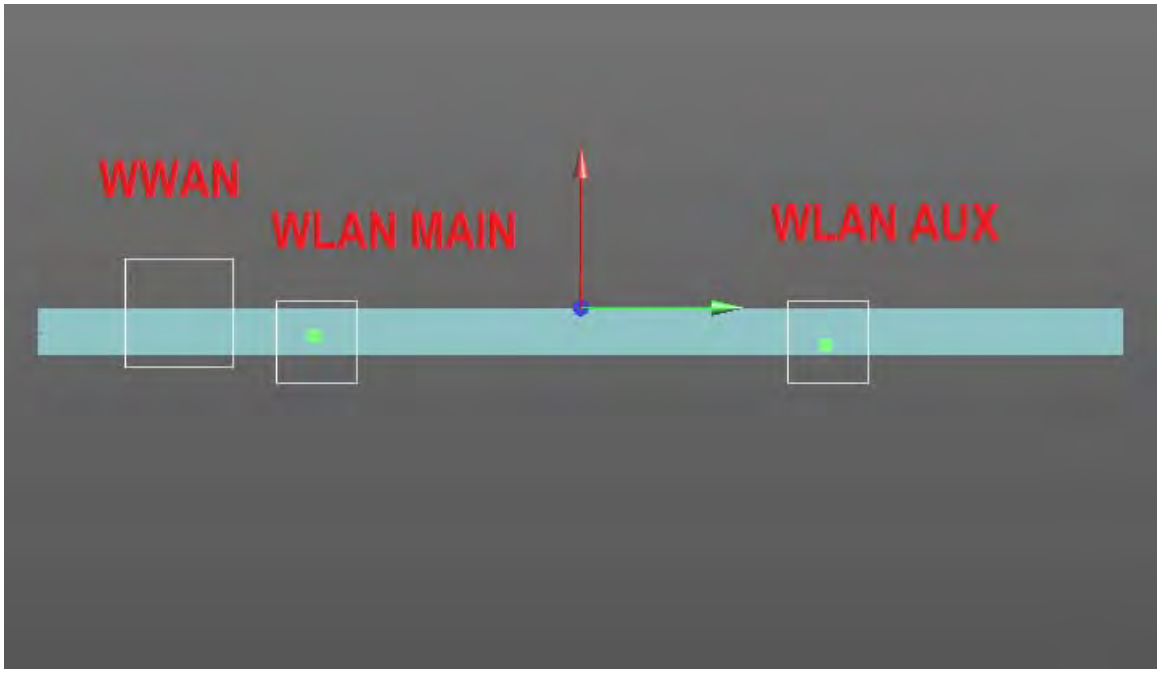



LTE Band 30

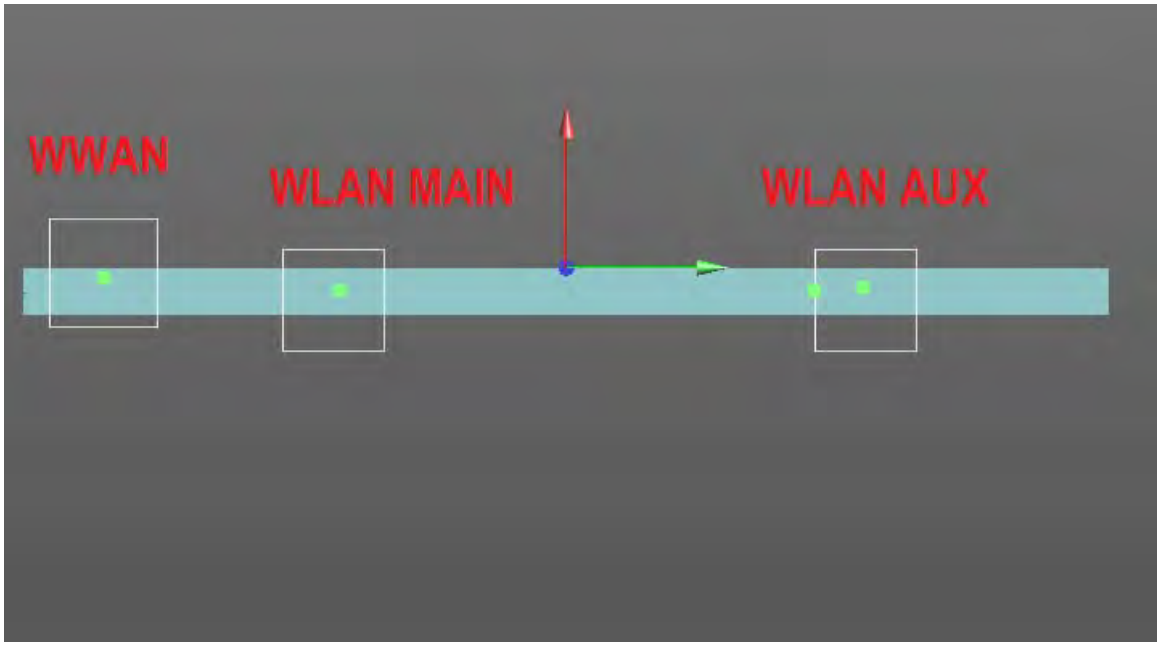



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LTE Band 41




LTE Band 66



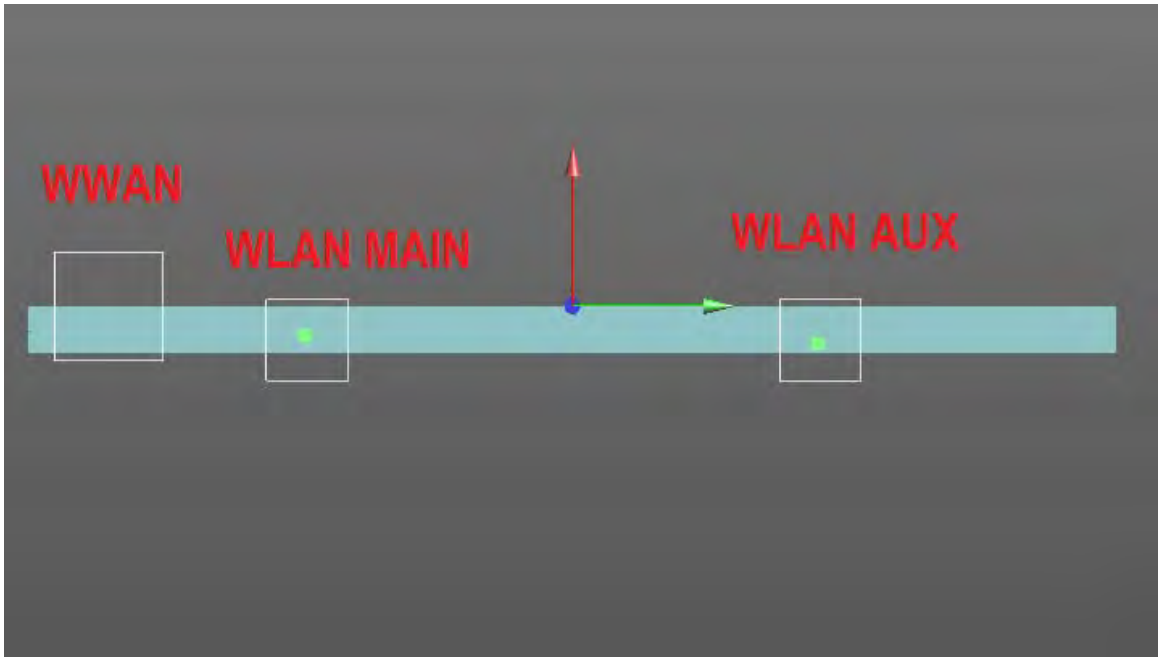

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## Top side WWAN + 5G WLAN

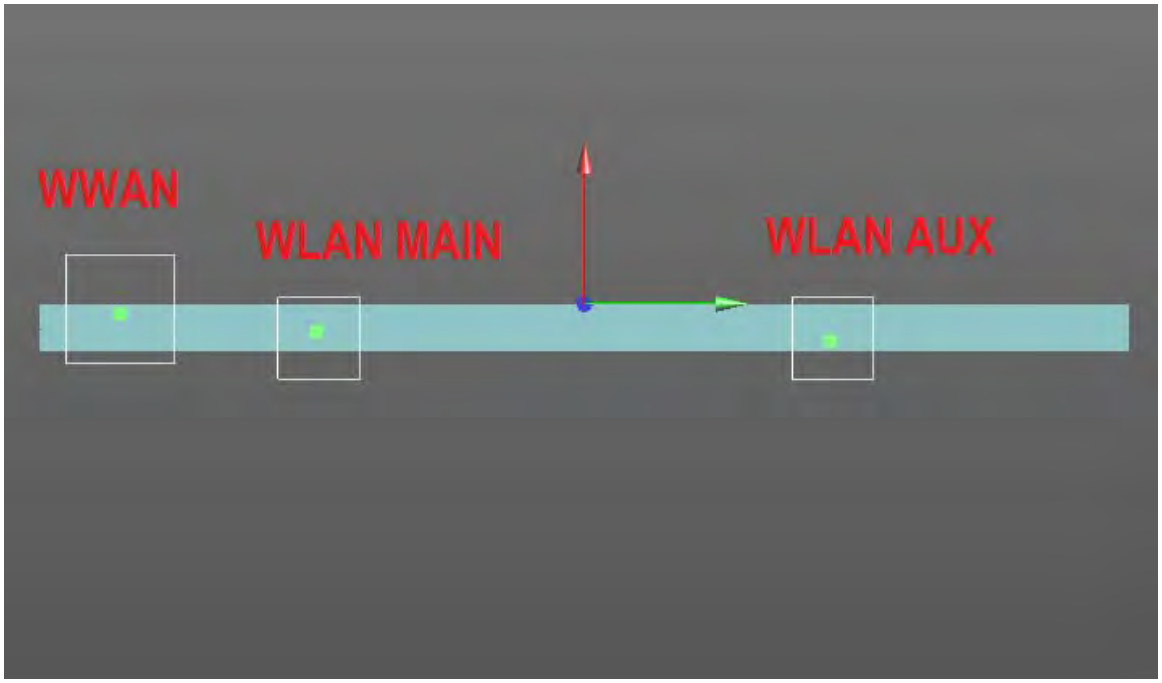
| Position | Conditions | SAR Value (W/kg) | Coordinates (cm) | | | ΣSAR (W/kg) | Peak Location Separation Distance (mm) | SPLSR | Simultaneous Transmission SAR Test |
|---|---|---|---|---|---|---|---|---|---|
| | | | x | y | z | | | | |
| Top side | WLAN Aux | 0.797 | -1.08 | 7.22 | -0.69 | - | - | - | - |
| | WLAN Main | 0.683 | -0.84 | -7.88 | -0.68 | 1.480 | 151.02 | 0.012 | SPLSR ≤ 0.04, Not required |
| | WCDMA Band II | 0.434 | -0.32 | -13.81 | -0.37 | 1.231 | 210.46 | 0.006 | SPLSR ≤ 0.04, Not required |
| | WCDMA Band IV | 0.554 | -0.31 | -13.65 | -0.37 | 1.351 | 208.87 | 0.008 | SPLSR ≤ 0.04, Not required |
| | WCDMA Band V | 0.777 | -0.15 | -11.85 | -0.46 | 1.574 | 190.94 | 0.010 | SPLSR ≤ 0.04, Not required |
| | LTE Band 2 | 0.385 | -0.32 | -13.81 | -0.37 | 1.182 | 210.46 | 0.006 | SPLSR ≤ 0.04, Not required |
| | LTE Band 4 | 0.523 | -0.31 | -13.65 | -0.37 | 1.320 | 208.87 | 0.007 | SPLSR ≤ 0.04, Not required |
| | LTE Band 5 | 0.681 | -0.15 | -11.85 | -0.46 | 1.478 | 190.94 | 0.009 | SPLSR ≤ 0.04, Not required |
| | LTE Band 7 | 0.670 | -0.24 | -12.74 | -0.35 | 1.467 | 199.80 | 0.009 | SPLSR ≤ 0.04, Not required |
| | LTE Band 12 | 0.660 | -0.15 | -1.16 | -0.46 | 1.457 | 84.32 | 0.021 | SPLSR ≤ 0.04, Not required |
| | LTE Band 13 | 0.680 | -0.15 | -11.85 | -0.46 | 1.477 | 190.94 | 0.009 | SPLSR ≤ 0.04, Not required |
| | LTE Band 14 | 0.653 | -0.15 | -11.80 | -0.46 | 1.450 | 190.44 | 0.009 | SPLSR ≤ 0.04, Not required |
| | LTE Band 17 | 0.673 | -0.15 | -11.85 | -0.46 | 1.470 | 190.94 | 0.009 | SPLSR ≤ 0.04, Not required |
| | LTE Band 25 | 0.404 | -0.32 | -13.81 | -0.67 | 1.201 | 210.44 | 0.006 | SPLSR ≤ 0.04, Not required |
| | LTE Band 26 | 0.653 | -0.15 | -11.85 | -0.46 | 1.450 | 190.94 | 0.009 | SPLSR ≤ 0.04, Not required |
| | LTE Band 30 | 0.674 | -0.34 | -13.24 | -0.38 | 1.471 | 204.76 | 0.009 | SPLSR ≤ 0.04, Not required |
| | LTE Band 41 | 0.589 | -0.38 | -9.94 | -0.42 | 1.386 | 171.76 | 0.009 | SPLSR ≤ 0.04, Not required |
| | LTE Band 66 | 0.513 | -0.31 | -13.65 | -0.37 | 1.310 | 208.87 | 0.007 | SPLSR ≤ 0.04, Not required |

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WCDMA Band II

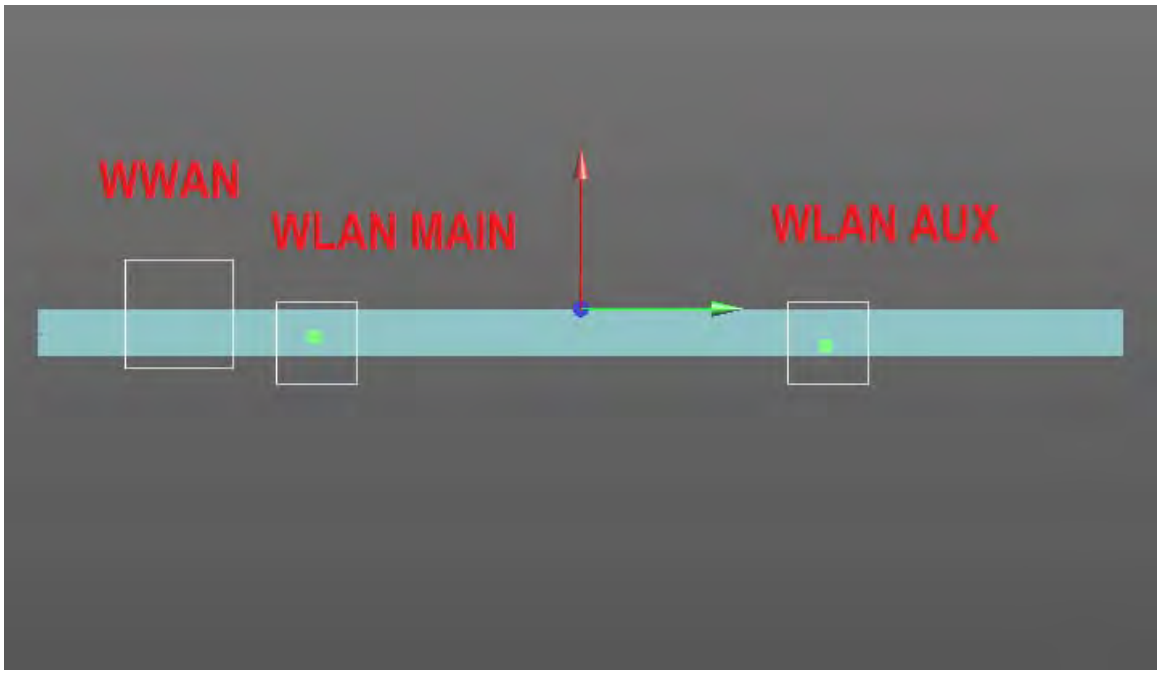



WCDMA Band IV

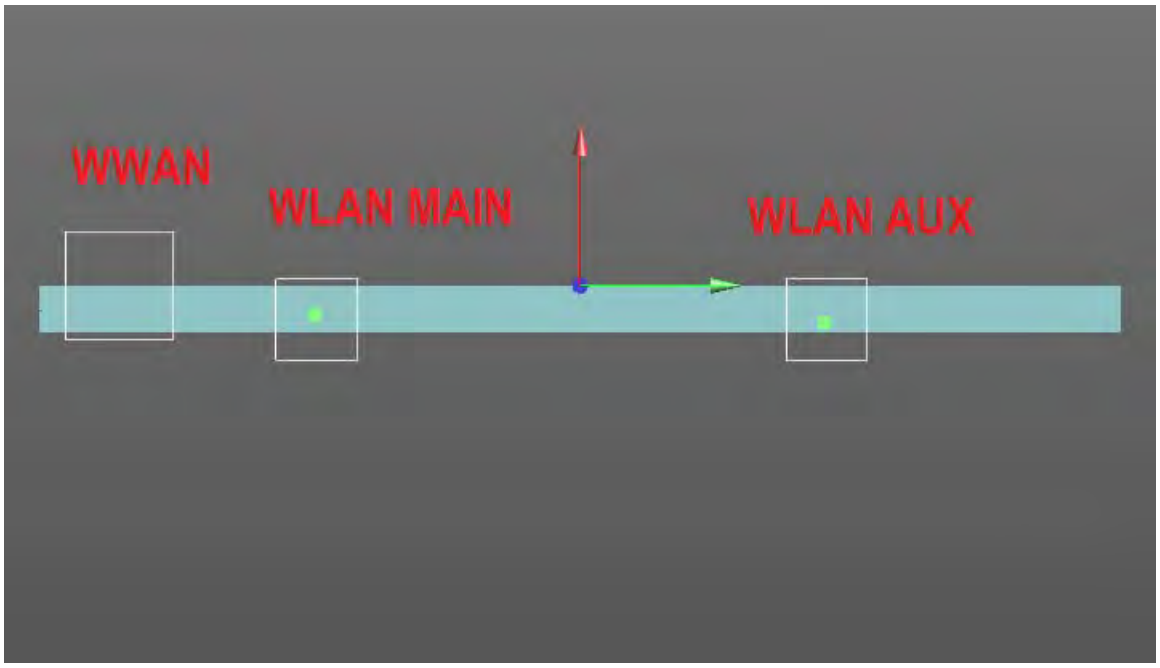



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WCDMA Band V

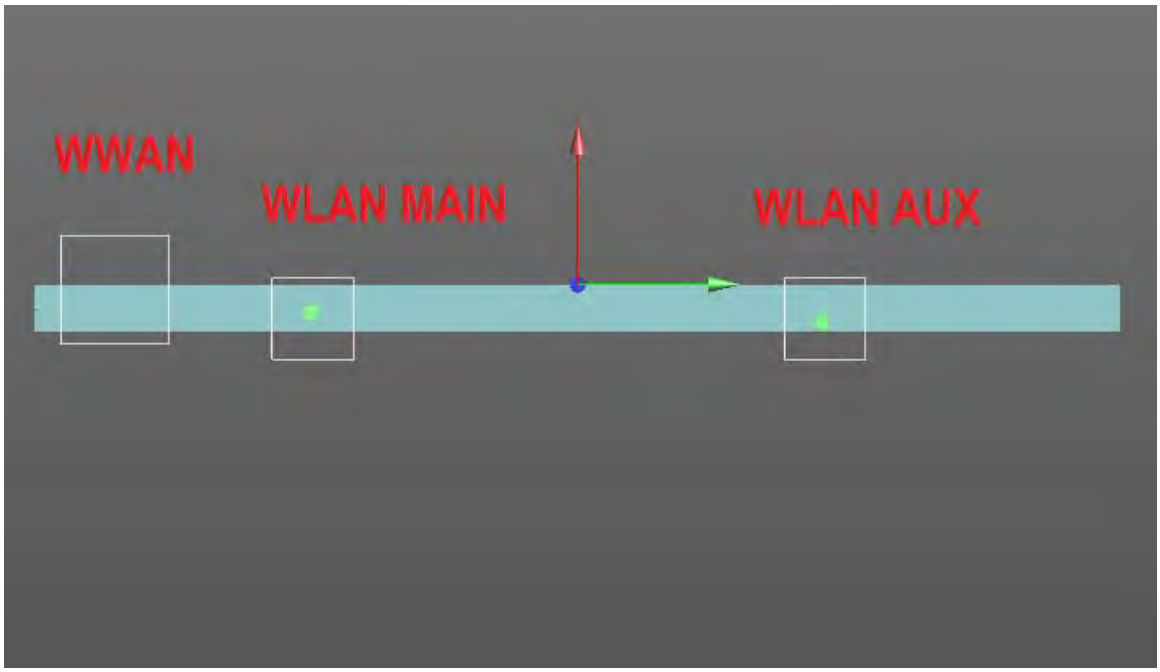



LTE Band 2

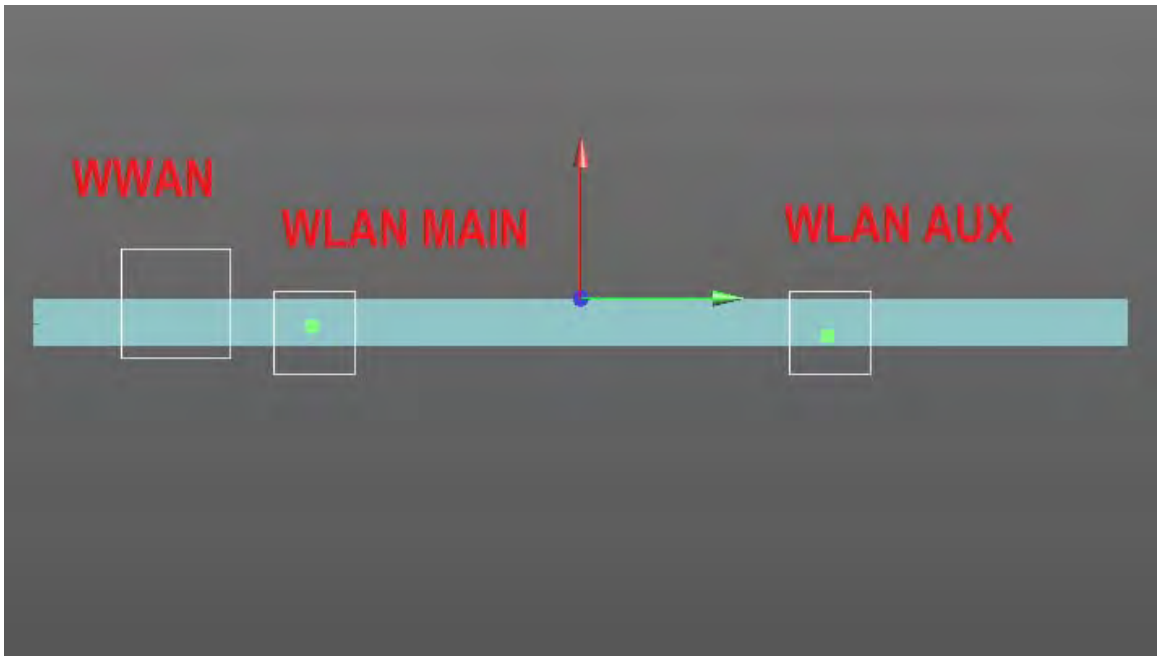



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LTE Band 4

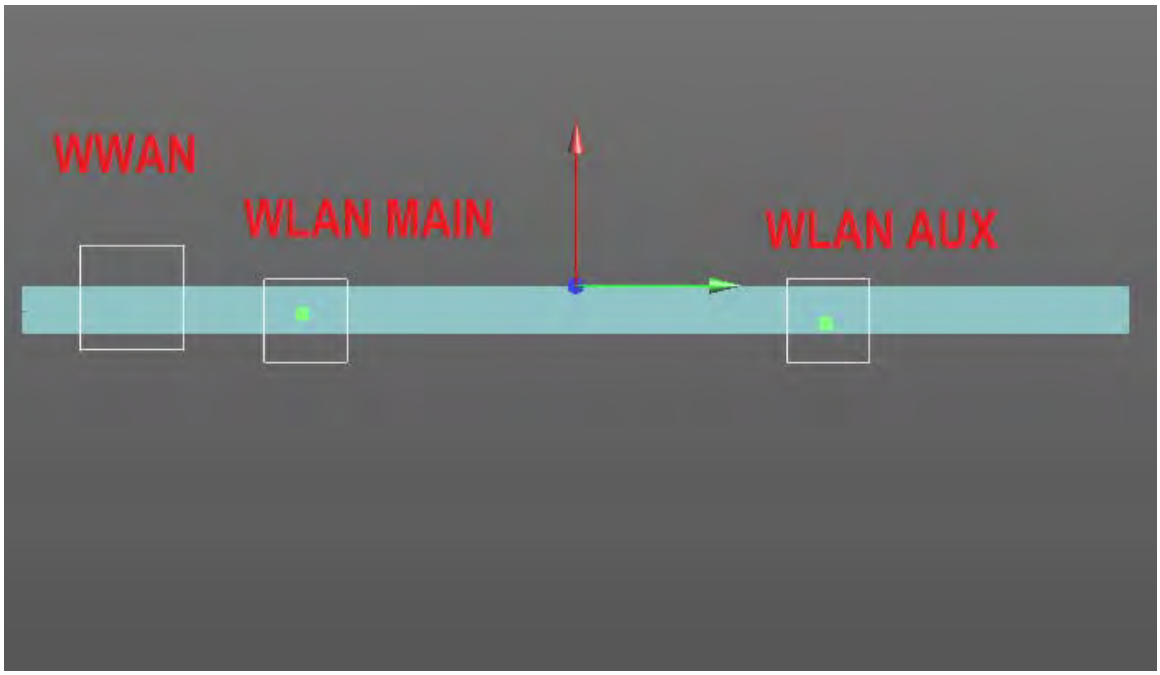



LTE Band 5

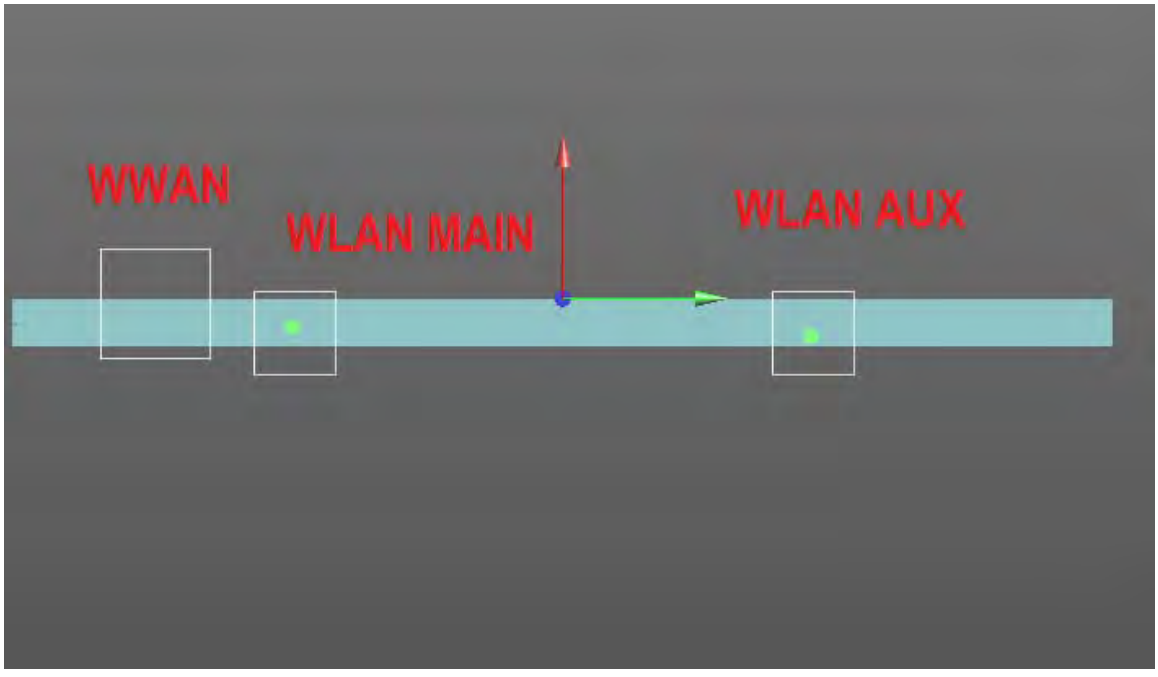



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LTE Band 7

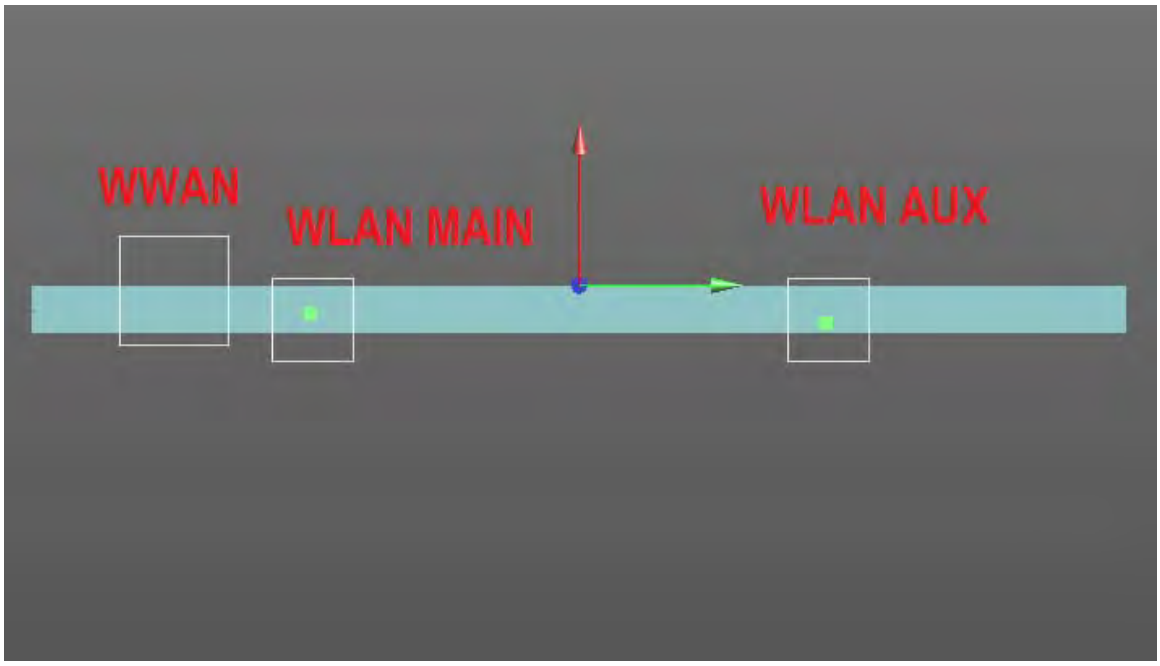



LTE Band 12

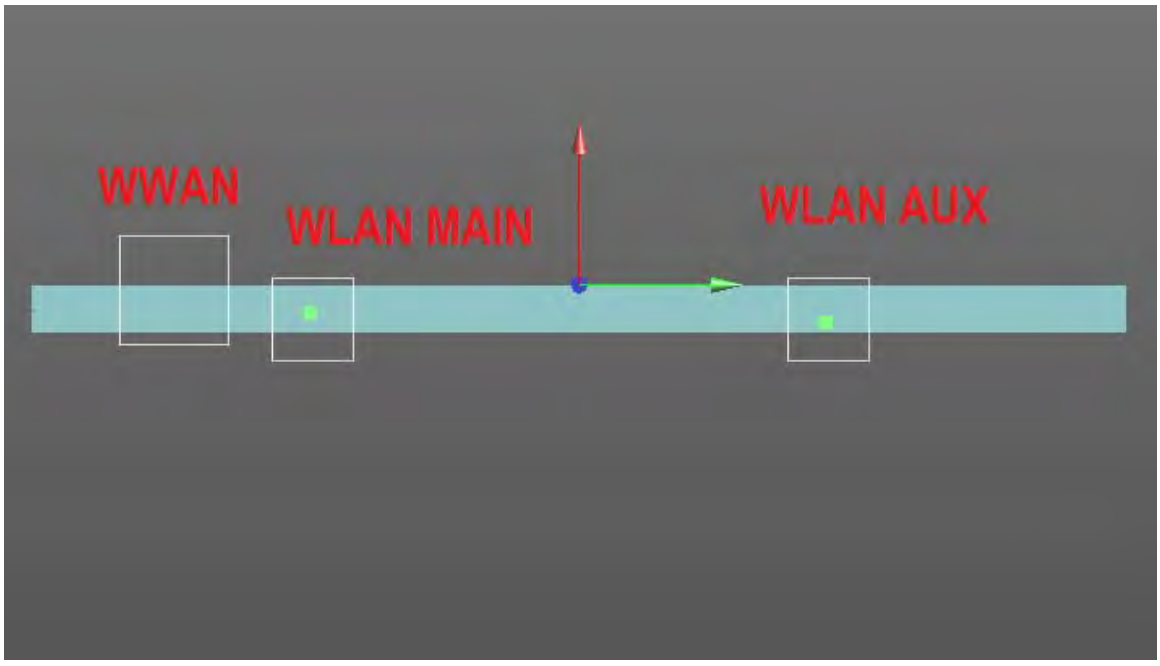



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LTE Band 13

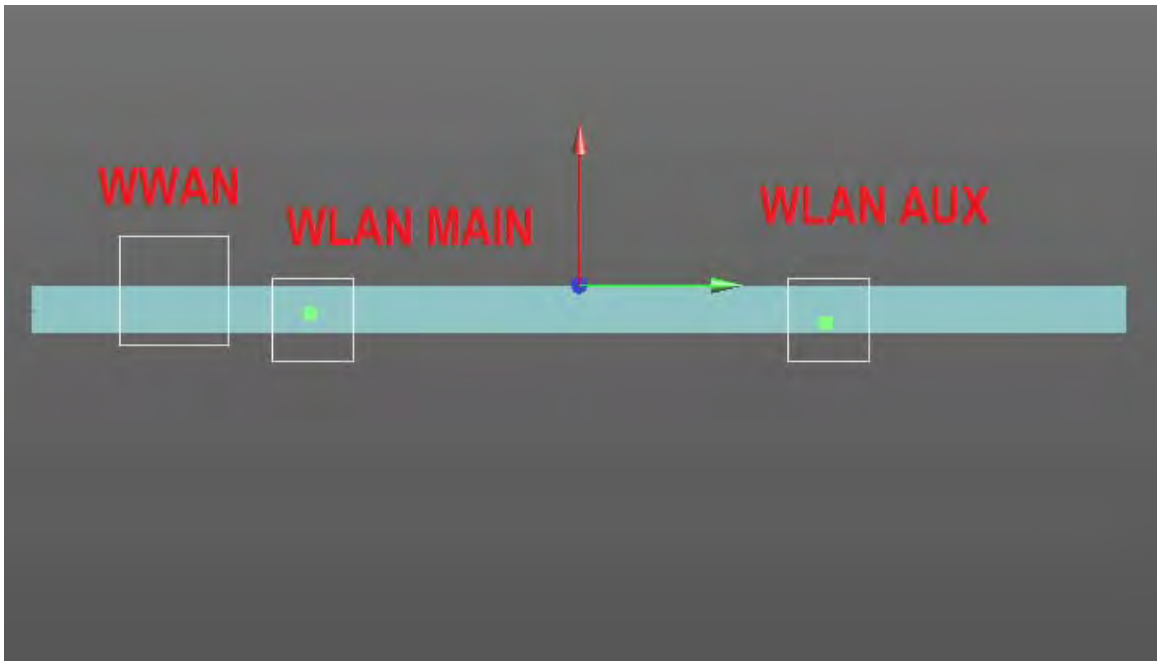



LTE Band 14

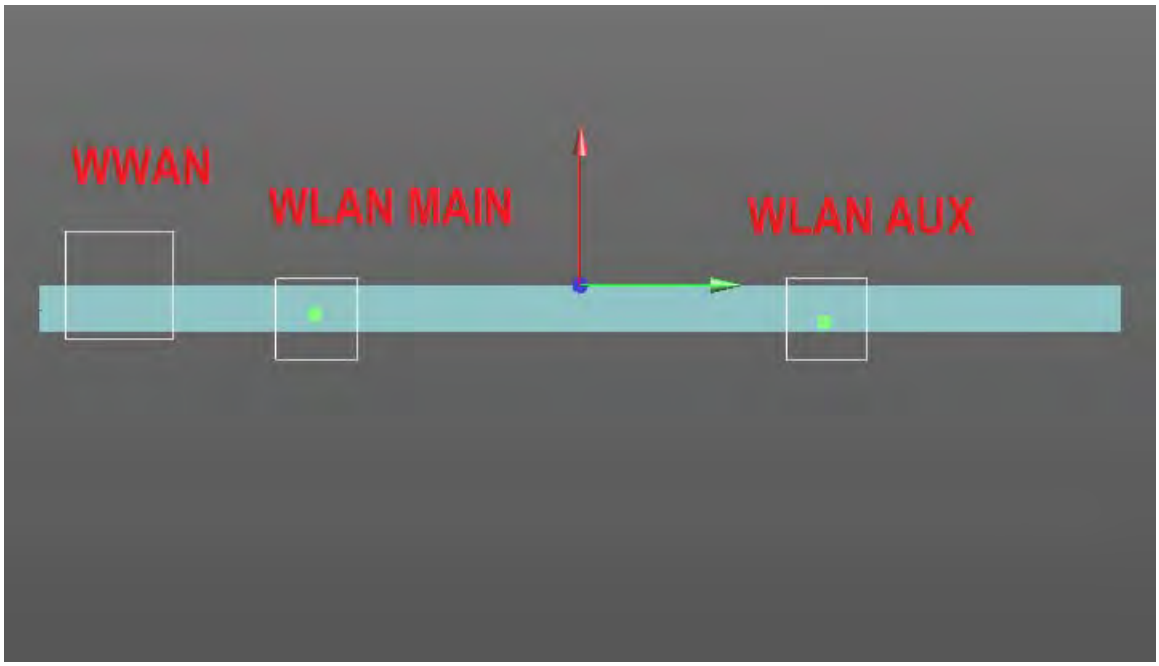



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LTE Band 17

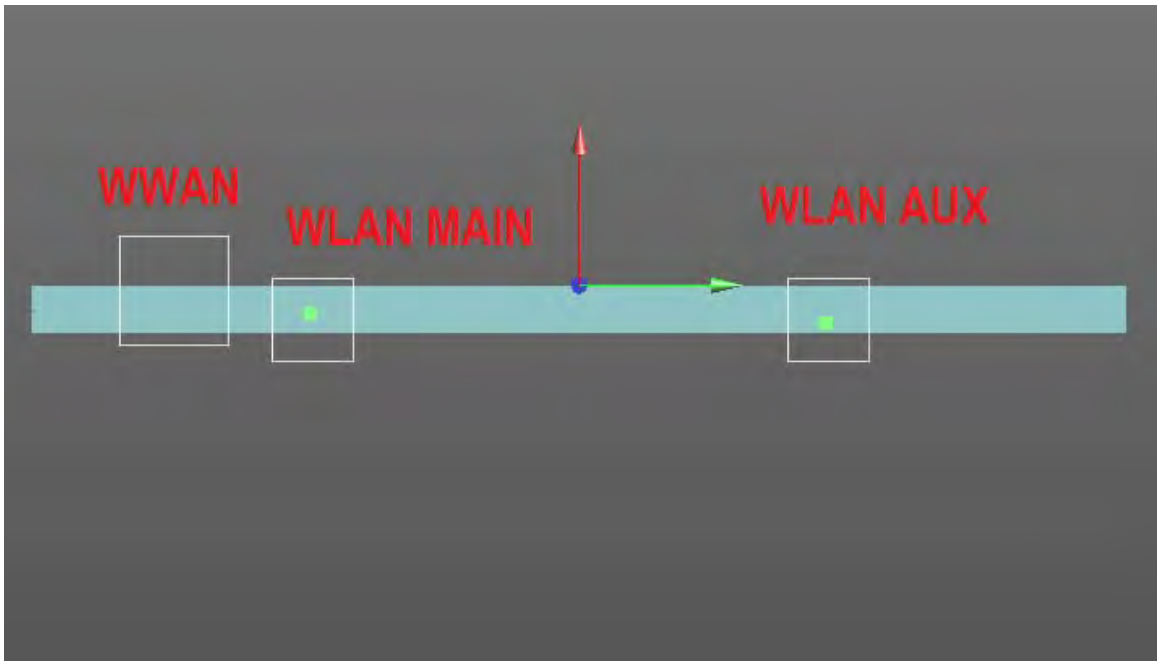



LTE Band 25

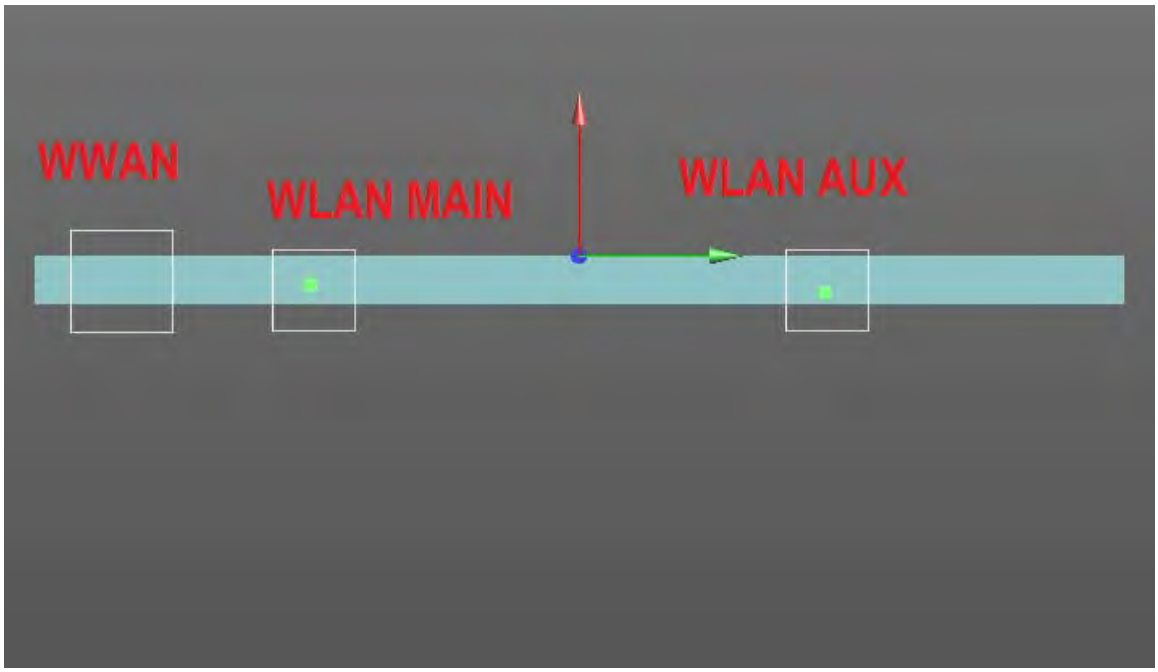



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LTE Band 26

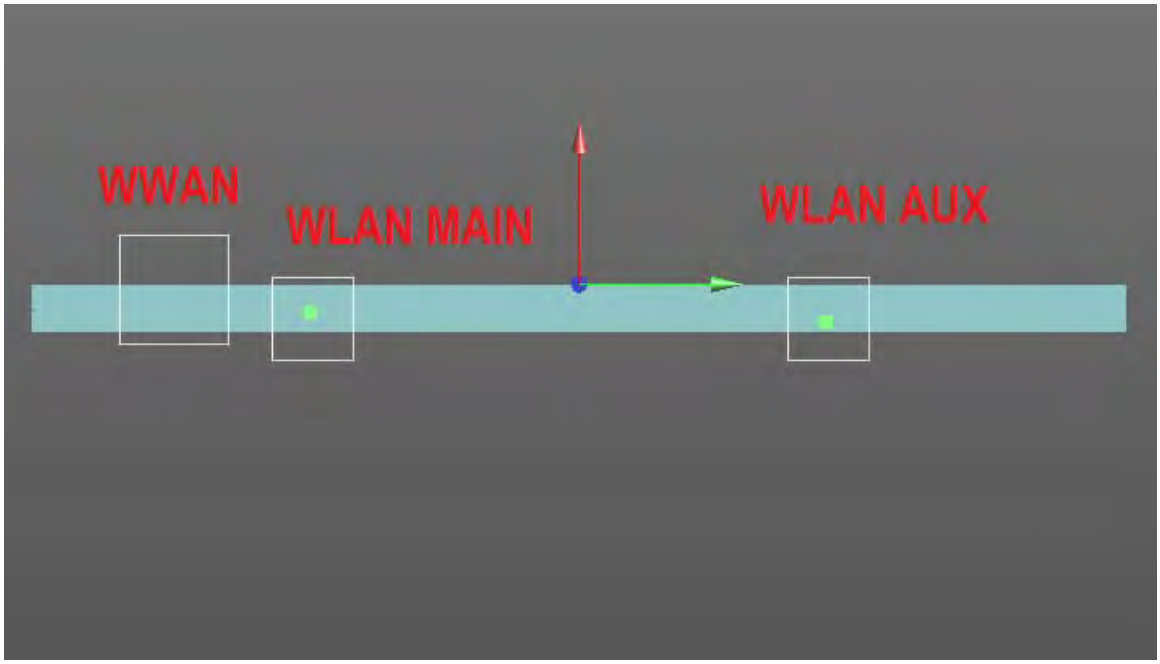



LTE Band 30

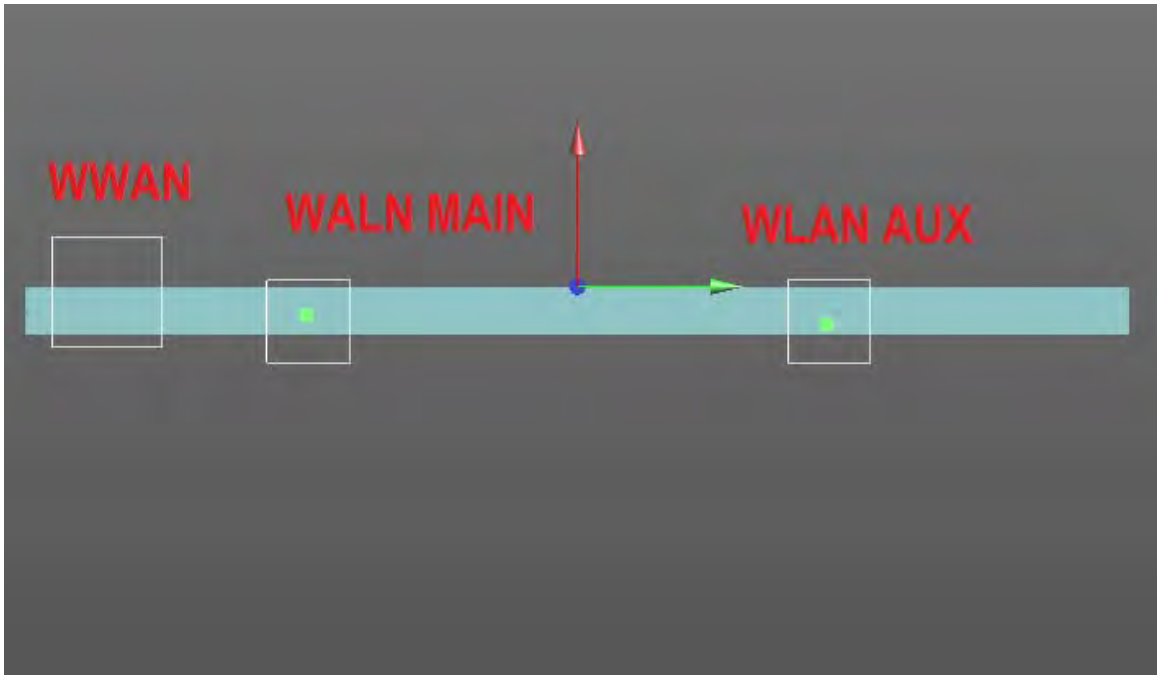



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LTE Band 41




LTE Band 66




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## Bottom side WWAN + 2.4G WLAN

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Max. WLAN Aux | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 9 | Bottom side | WCDMA Band II | 0 | 0.009 | 0.005 | 0.013 | 0.027 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 0.012 | 0.005 | 0.013 | 0.030 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.033 | 0.005 | 0.013 | 0.051 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 0.008 | 0.005 | 0.013 | 0.026 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 0.009 | 0.005 | 0.013 | 0.027 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.027 | 0.005 | 0.013 | 0.045 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.034 | 0.005 | 0.013 | 0.052 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.022 | 0.005 | 0.013 | 0.040 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.031 | 0.005 | 0.013 | 0.049 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.030 | 0.005 | 0.013 | 0.048 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.023 | 0.005 | 0.013 | 0.041 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 0.009 | 0.005 | 0.013 | 0.027 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.028 | 0.005 | 0.013 | 0.046 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.080 | 0.005 | 0.013 | 0.098 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.003 | 0.005 | 0.013 | 0.021 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.012 | 0.005 | 0.013 | 0.030 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 0.008 | 0.005 | 0.013 | 0.026 | ΣSAR<1.6, Not required |

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## Bottom side WWAN + 5G WLAN

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Max. WLAN Aux | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 10 | Bottom side | WCDMA Band II | 0 | 0.009 | 0.098 | 0.060 | 0.167 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 0.012 | 0.098 | 0.060 | 0.170 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.033 | 0.098 | 0.060 | 0.191 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 0.008 | 0.098 | 0.060 | 0.166 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 0.009 | 0.098 | 0.060 | 0.167 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.027 | 0.098 | 0.060 | 0.185 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.034 | 0.098 | 0.060 | 0.192 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.022 | 0.098 | 0.060 | 0.180 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.031 | 0.098 | 0.060 | 0.189 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.030 | 0.098 | 0.060 | 0.188 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.023 | 0.098 | 0.060 | 0.181 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 0.009 | 0.098 | 0.060 | 0.167 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.028 | 0.098 | 0.060 | 0.186 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.080 | 0.098 | 0.060 | 0.238 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.003 | 0.098 | 0.060 | 0.161 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.012 | 0.098 | 0.060 | 0.170 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 0.008 | 0.098 | 0.060 | 0.166 | ΣSAR<1.6, Not required |

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## Bottom side WWAN + 2.4G WLAN Main + BT

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Bluetooth | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 11 | Bottom side | WCDMA Band II | 0 | 0.009 | 0.005 | 0.003 | 0.017 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 0.012 | 0.005 | 0.003 | 0.020 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.033 | 0.005 | 0.003 | 0.041 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 0.008 | 0.005 | 0.003 | 0.016 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 0.009 | 0.005 | 0.003 | 0.017 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.027 | 0.005 | 0.003 | 0.035 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.034 | 0.005 | 0.003 | 0.042 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.022 | 0.005 | 0.003 | 0.030 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.031 | 0.005 | 0.003 | 0.039 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.030 | 0.005 | 0.003 | 0.038 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.023 | 0.005 | 0.003 | 0.031 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 0.009 | 0.005 | 0.003 | 0.017 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.028 | 0.005 | 0.003 | 0.036 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.080 | 0.005 | 0.003 | 0.088 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.003 | 0.005 | 0.003 | 0.011 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.012 | 0.005 | 0.003 | 0.020 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 0.008 | 0.005 | 0.003 | 0.016 | ΣSAR<1.6, Not required |

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## Bottom side WWAN + 5G WLAN Main + BT

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Bluetooth | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 12 | Bottom side | WCDMA Band II | 0 | 0.009 | 0.098 | 0.003 | 0.110 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 0.012 | 0.098 | 0.003 | 0.113 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.033 | 0.098 | 0.003 | 0.134 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 0.008 | 0.098 | 0.003 | 0.109 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 0.009 | 0.098 | 0.003 | 0.110 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.027 | 0.098 | 0.003 | 0.128 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.034 | 0.098 | 0.003 | 0.135 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.022 | 0.098 | 0.003 | 0.123 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.031 | 0.098 | 0.003 | 0.132 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.030 | 0.098 | 0.003 | 0.131 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.023 | 0.098 | 0.003 | 0.124 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 0.009 | 0.098 | 0.003 | 0.110 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.028 | 0.098 | 0.003 | 0.129 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.080 | 0.098 | 0.003 | 0.181 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.003 | 0.098 | 0.003 | 0.104 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.012 | 0.098 | 0.003 | 0.113 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 0.008 | 0.098 | 0.003 | 0.109 | ΣSAR<1.6, Not required |

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## Right side WWAN + 2.4G WLAN

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Max. WLAN Aux | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 13 | Right side | WCDMA Band II | 0 | 0.011 | 0.010 | 0.070 | 0.091 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 0.013 | 0.010 | 0.070 | 0.093 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.006 | 0.010 | 0.070 | 0.086 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 0.010 | 0.010 | 0.070 | 0.090 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 0.012 | 0.010 | 0.070 | 0.092 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.006 | 0.010 | 0.070 | 0.086 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.006 | 0.010 | 0.070 | 0.086 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.004 | 0.010 | 0.070 | 0.084 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.006 | 0.010 | 0.070 | 0.086 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.006 | 0.010 | 0.070 | 0.086 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.004 | 0.010 | 0.070 | 0.084 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 0.011 | 0.010 | 0.070 | 0.091 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.006 | 0.010 | 0.070 | 0.086 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.013 | 0.010 | 0.070 | 0.093 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.005 | 0.010 | 0.070 | 0.085 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.014 | 0.010 | 0.070 | 0.094 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 0.014 | 0.010 | 0.070 | 0.094 | ΣSAR<1.6, Not required |

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## Right side WWAN + 5G WLAN

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Max. WLAN Aux | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 14 | Right side | WCDMA Band II | 0 | 0.011 | 0.040 | 0.094 | 0.145 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 0.013 | 0.040 | 0.094 | 0.147 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.006 | 0.040 | 0.094 | 0.140 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 0.010 | 0.040 | 0.094 | 0.144 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 0.012 | 0.040 | 0.094 | 0.146 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.006 | 0.040 | 0.094 | 0.140 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.006 | 0.040 | 0.094 | 0.140 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.004 | 0.040 | 0.094 | 0.138 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.006 | 0.040 | 0.094 | 0.140 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.006 | 0.040 | 0.094 | 0.140 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.004 | 0.040 | 0.094 | 0.138 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 0.011 | 0.040 | 0.094 | 0.145 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.006 | 0.040 | 0.094 | 0.140 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.013 | 0.040 | 0.094 | 0.147 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.005 | 0.040 | 0.094 | 0.139 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.014 | 0.040 | 0.094 | 0.148 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 0.014 | 0.040 | 0.094 | 0.148 | ΣSAR<1.6, Not required |

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## Right side WWAN + 2.4G WLAN Main + BT

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Bluetooth | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 15 | Right side | WCDMA Band II | 0 | 0.011 | 0.010 | 0.015 | 0.036 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 0.013 | 0.010 | 0.015 | 0.038 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.006 | 0.010 | 0.015 | 0.031 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 0.010 | 0.010 | 0.015 | 0.035 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 0.012 | 0.010 | 0.015 | 0.037 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.006 | 0.010 | 0.015 | 0.031 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.006 | 0.010 | 0.015 | 0.031 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.004 | 0.010 | 0.015 | 0.029 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.006 | 0.010 | 0.015 | 0.031 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.006 | 0.010 | 0.015 | 0.031 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.004 | 0.010 | 0.015 | 0.029 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 0.011 | 0.010 | 0.015 | 0.036 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.006 | 0.010 | 0.015 | 0.031 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.013 | 0.010 | 0.015 | 0.038 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.005 | 0.010 | 0.015 | 0.030 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.014 | 0.010 | 0.015 | 0.039 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 0.014 | 0.010 | 0.015 | 0.039 | ΣSAR<1.6, Not required |

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## Right side WWAN + 5G WLAN Main + BT

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Bluetooth | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 16 | Right side | WCDMA Band II | 0 | 0.011 | 0.040 | 0.015 | 0.066 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 0.013 | 0.040 | 0.015 | 0.068 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.006 | 0.040 | 0.015 | 0.061 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 0.010 | 0.040 | 0.015 | 0.065 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 0.012 | 0.040 | 0.015 | 0.067 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.006 | 0.040 | 0.015 | 0.061 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.006 | 0.040 | 0.015 | 0.061 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.004 | 0.040 | 0.015 | 0.059 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.006 | 0.040 | 0.015 | 0.061 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.006 | 0.040 | 0.015 | 0.061 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.004 | 0.040 | 0.015 | 0.059 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 0.011 | 0.040 | 0.015 | 0.066 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.006 | 0.040 | 0.015 | 0.061 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.013 | 0.040 | 0.015 | 0.068 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.005 | 0.040 | 0.015 | 0.060 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.014 | 0.040 | 0.015 | 0.069 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 0.014 | 0.040 | 0.015 | 0.069 | ΣSAR<1.6, Not required |

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## Left side WWAN + 2.4G WLAN

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Max. WLAN Aux | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 17 | Left side | WCDMA Band II | 0 | 1.138 | 0.148 | 0.003 | 1.289 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 1.297 | 0.148 | 0.003 | 1.448 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.997 | 0.148 | 0.003 | 1.148 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 1.041 | 0.148 | 0.003 | 1.192 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 1.181 | 0.148 | 0.003 | 1.332 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.837 | 0.148 | 0.003 | 0.988 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.305 | 0.148 | 0.003 | 0.456 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.698 | 0.148 | 0.003 | 0.849 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.880 | 0.148 | 0.003 | 1.031 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.868 | 0.148 | 0.003 | 1.019 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.739 | 0.148 | 0.003 | 0.890 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 1.092 | 0.148 | 0.003 | 1.243 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.882 | 0.148 | 0.003 | 1.033 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.711 | 0.148 | 0.003 | 0.862 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.031 | 0.148 | 0.003 | 0.182 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.161 | 0.148 | 0.003 | 0.312 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 1.141 | 0.148 | 0.003 | 1.292 | ΣSAR<1.6, Not required |

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## Left side WWAN + 5G WLAN

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Max. WLAN Aux | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 18 | Left side | WCDMA Band II | 0 | 1.138 | 0.102 | 0.063 | 1.303 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 1.297 | 0.102 | 0.063 | 1.462 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.997 | 0.102 | 0.063 | 1.162 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 1.041 | 0.102 | 0.063 | 1.206 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 1.181 | 0.102 | 0.063 | 1.346 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.837 | 0.102 | 0.063 | 1.002 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.305 | 0.102 | 0.063 | 0.470 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.698 | 0.102 | 0.063 | 0.863 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.880 | 0.102 | 0.063 | 1.045 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.868 | 0.102 | 0.063 | 1.033 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.739 | 0.102 | 0.063 | 0.904 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 1.092 | 0.102 | 0.063 | 1.257 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.882 | 0.102 | 0.063 | 1.047 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.711 | 0.102 | 0.063 | 0.876 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.031 | 0.102 | 0.063 | 0.196 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.161 | 0.102 | 0.063 | 0.326 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 1.141 | 0.102 | 0.063 | 1.306 | ΣSAR<1.6, Not required |

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## Left side WWAN + 2.4G WLAN Main + BT

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Bluetooth | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 19 | Left side | WCDMA Band II | 0 | 1.138 | 0.148 | 0.001 | 1.287 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 1.297 | 0.148 | 0.001 | 1.446 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.997 | 0.148 | 0.001 | 1.146 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 1.041 | 0.148 | 0.001 | 1.190 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 1.181 | 0.148 | 0.001 | 1.330 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.837 | 0.148 | 0.001 | 0.986 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.305 | 0.148 | 0.001 | 0.454 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.698 | 0.148 | 0.001 | 0.847 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.880 | 0.148 | 0.001 | 1.029 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.868 | 0.148 | 0.001 | 1.017 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.739 | 0.148 | 0.001 | 0.888 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 1.092 | 0.148 | 0.001 | 1.241 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.882 | 0.148 | 0.001 | 1.031 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.711 | 0.148 | 0.001 | 0.860 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.031 | 0.148 | 0.001 | 0.180 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.161 | 0.148 | 0.001 | 0.310 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 1.141 | 0.148 | 0.001 | 1.290 | ΣSAR<1.6, Not required |

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Left side WWAN + 5G WLAN Main + BT

| No. | Position | Conditions | Distance (mm) | Max. WWAN | Max. WLAN | Bluetooth | SAR Sum | SPLSR |
|---|---|---|---|---|---|---|---|---|
| 20 | Left side | WCDMA Band II | 0 | 1.138 | 0.102 | 0.001 | 1.241 | ΣSAR<1.6, Not required |
| | | WCDMA Band IV | 0 | 1.297 | 0.102 | 0.001 | 1.400 | ΣSAR<1.6, Not required |
| | | WCDMA Band V | 0 | 0.997 | 0.102 | 0.001 | 1.100 | ΣSAR<1.6, Not required |
| | | LTE Band 2 | 0 | 1.041 | 0.102 | 0.001 | 1.144 | ΣSAR<1.6, Not required |
| | | LTE Band 4 | 0 | 1.181 | 0.102 | 0.001 | 1.284 | ΣSAR<1.6, Not required |
| | | LTE Band 5 | 0 | 0.837 | 0.102 | 0.001 | 0.940 | ΣSAR<1.6, Not required |
| | | LTE Band 7 | 0 | 0.305 | 0.102 | 0.001 | 0.408 | ΣSAR<1.6, Not required |
| | | LTE Band 12 | 0 | 0.698 | 0.102 | 0.001 | 0.801 | ΣSAR<1.6, Not required |
| | | LTE Band 13 | 0 | 0.880 | 0.102 | 0.001 | 0.983 | ΣSAR<1.6, Not required |
| | | LTE Band 14 | 0 | 0.868 | 0.102 | 0.001 | 0.971 | ΣSAR<1.6, Not required |
| | | LTE Band 17 | 0 | 0.739 | 0.102 | 0.001 | 0.842 | ΣSAR<1.6, Not required |
| | | LTE Band 25 | 0 | 1.092 | 0.102 | 0.001 | 1.195 | ΣSAR<1.6, Not required |
| | | LTE Band 26 | 0 | 0.882 | 0.102 | 0.001 | 0.985 | ΣSAR<1.6, Not required |
| | | LTE Band 30 | 0 | 0.711 | 0.102 | 0.001 | 0.814 | ΣSAR<1.6, Not required |
| | | LTE Band 38 | 0 | 0.031 | 0.102 | 0.001 | 0.134 | ΣSAR<1.6, Not required |
| | | LTE Band 41 | 0 | 0.161 | 0.102 | 0.001 | 0.264 | ΣSAR<1.6, Not required |
| | | LTE Band 66 | 0 | 1.141 | 0.102 | 0.001 | 1.244 | ΣSAR<1.6, Not required |

## Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because either the sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is ≦ 0.04 fobvr all circumstances that require SPLSR calculation.

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# 4. Instruments List

| Manufacturer | Device | Type | Serial number | Date of last calibration | Date of next calibration |
|---|---|---|---|---|---|
| SPEAG | Dosimetric E-Field Probe | EX3DV4 | 7351 | Dec.21,2017 | Dec.20,2018 |
| | | | 3831 | Jan.23,2018 | Jan.22,2019 |
| SPEAG | System Validation Dipole | D750V3 | 1078 | Jun.20,2018 | Jun.19,2019 |
| | | D835V2 | 4d120 | Jun.20,2018 | Jun.19,2019 |
| | | D1750V2 | 1023 | Jun.11,2018 | Jun.10,2019 |
| | | D1900V2 | 5d173 | Apr.25,2018 | Apr.24,2019 |
| | | D2300V2 | 1006 | Jan.17,2018 | Jan.16,2019 |
| | | D2450V2 | 727 | Apr.24,2018 | Apr.23,2019 |
| | | D2600V2 | 1005 | Jan.17,2018 | Jan.16,2019 |
| | | D5GHzV2 | 1023 | Jan.25,2018 | Jan.24,2019 |
| SPEAG | Data acquisition Electronics | DAE4 | 1336 | Aug.06,2018 | Aug.05,2019 |
| | | | 547 | Mar.16,2018 | Mar.15,2019 |
| SPEAG | Software | DASY 52 V52.10.1 | N/A | Calibration not required | Calibration not required |
| SPEAG | Phantom | ELI | N/A | Calibration not required | Calibration not required |
| Agilent | Network Analyzer | E5071C | MY46315263 | Sep.08,2017 | Sep.07,2018 |
| Agilent | Dielectric Probe Kit | 85070E | MY44300677 | Calibration not required | Calibration not required |
| Agilent | Dual-directional coupler | 772D | MY52180142 | Jul.04,2018 | Jul.03,2019 |
| | | 778D | MY52180302 | Jul.05,2018 | Jul.04,2019 |
| Agilent | RF Signal Generator | N5181A | MY50144143 | Mar.15,2018 | Mar.14,2019 |
| Agilent | Power Meter | E4417A | MY52240003 | Dec.21,2017 | Dec.20,2018 |

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| Manufacturer | Device | Type | Serial number | Date of last calibration | Date of next calibration |
|---|---|---|---|---|---|
| Agilent | Power Sensor | E9301H | MY52200003 | Dec.21,2017 | Dec.20,2018 |
| | | | MY52200004 | Dec.21,2017 | Dec.20,2018 |
| TECPEL | Digital thermometer | DTM-303A | TP130075 | Mar.09,2018 | Mar.08,2019 |
| Anritsu | Radio Communication Test | MT8820C | 6201061014 | Mar.14,2018 | Mar.13,2019 |

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# 5. Measurements

Date: 2018/8/31

## WCDMA Band II_Body_Left side_CH 9538_0mm

Communication System: WCDMA; Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1908 MHz; $\sigma$ = 1.629 S/m; $\varepsilon_r$ = 50.607; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(8.22, 8.22, 8.22) @ 1907.6 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.09 W/kg

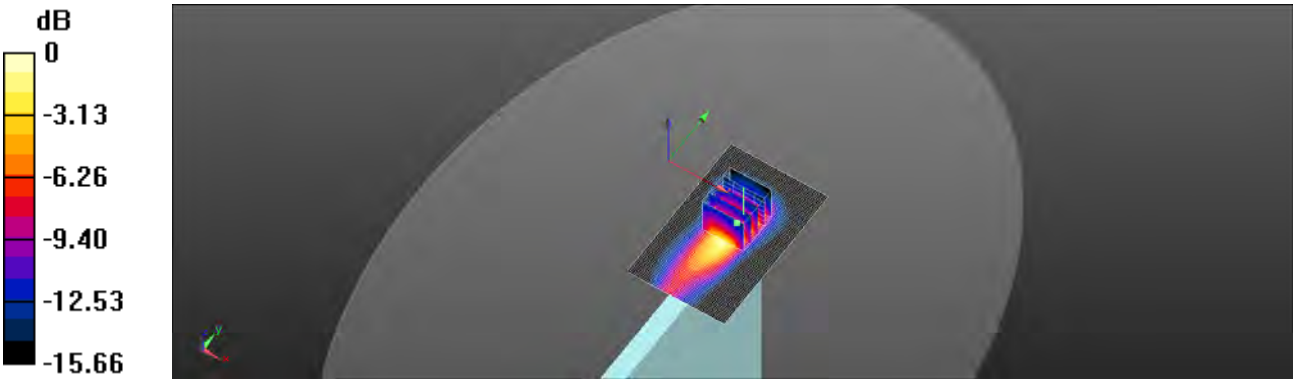
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.311 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 2.31 W/kg

**SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.593 W/kg**

Maximum value of SAR (measured) = 1.77 W/kg




0 dB = 1.77 W/kg = 2.47 dBW/kg

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Date: 2018/8/30

## WCDMA Band IV_Body_Left side_CH 1412_0mm

Communication System: WCDMA; Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1732.4 MHz; $\sigma$ = 1.441 S/m; $\varepsilon_r$ = 51.205; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(8.58, 8.58, 8.58) @ 1732.4 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.18 W/kg

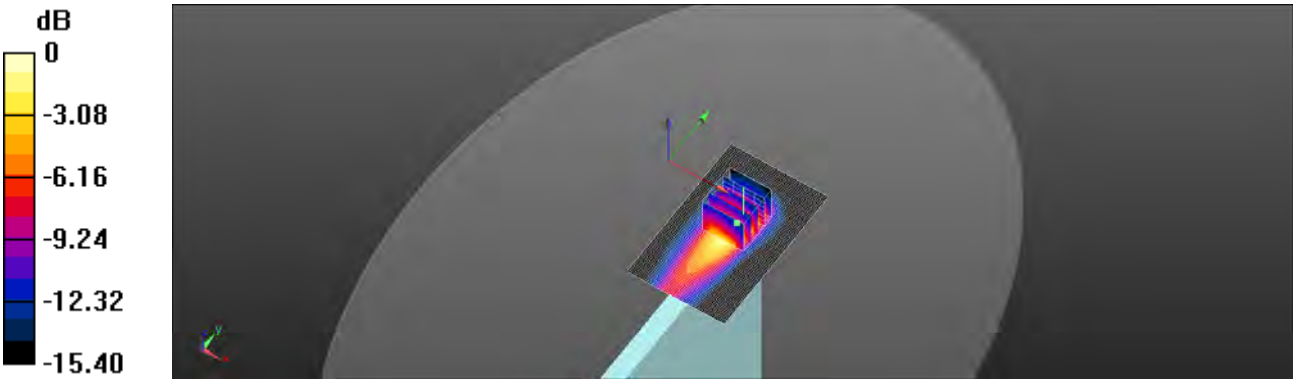
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.897 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.29 W/kg

**SAR(1 g) = 1.23 W/kg; SAR(10 g) = 0.635 W/kg**

Maximum value of SAR (measured) = 1.78 W/kg




0 dB = 1.78 W/kg = 2.50 dBW/kg

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Date: 2018/8/29

## WCDMA Band V_Body_Left side_CH 4132_0mm

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used: f = 826.4 MHz; $\sigma$ = 0.978 S/m; $\varepsilon_r$ = 57.152; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(10.39, 10.39, 10.39) @ 826.4 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.03 W/kg

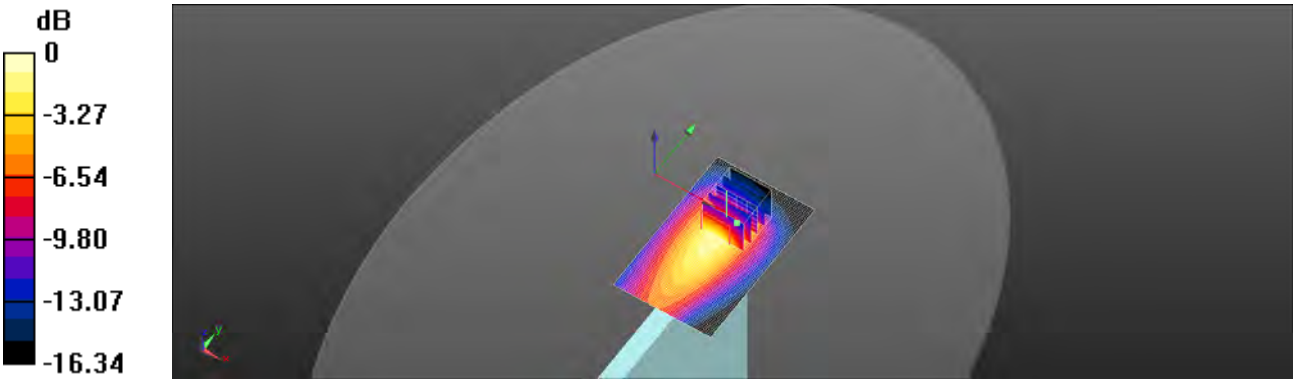
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.63 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.95 W/kg

**SAR(1 g) = 0.788 W/kg; SAR(10 g) = 0.429 W/kg**

Maximum value of SAR (measured) = 1.13 W/kg




0 dB = 1.13 W/kg = 0.52 dBW/kg

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Date: 2018/8/31

## LTE Band 2 (20MHz)_Body_Left side_CH 19100_QPSK_1-50_0mm

Communication System: LTE; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; $\sigma$ = 1.619 S/m; $\varepsilon_r$ = 50.642; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(8.22, 8.22, 8.22) @ 1900 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.77 W/kg

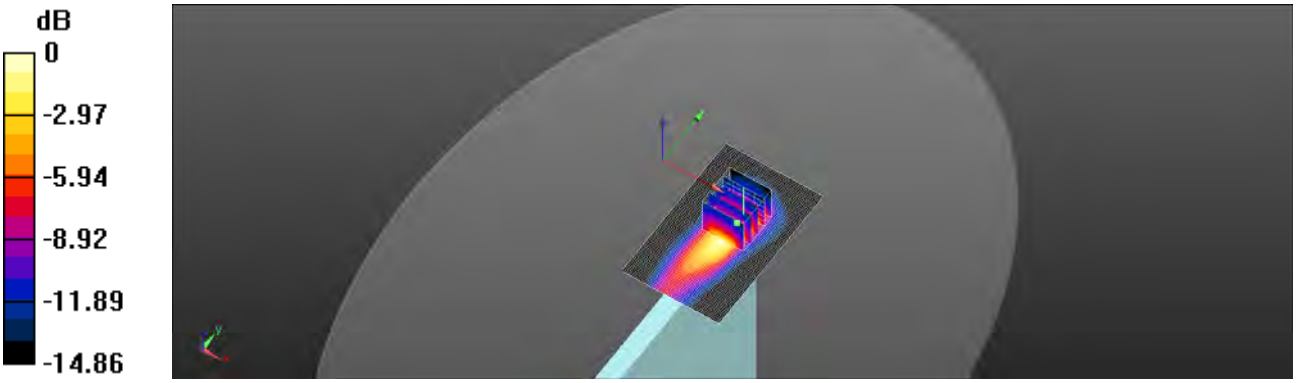
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.376 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.92 W/kg

**SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.512 W/kg**

Maximum value of SAR (measured) = 1.46 W/kg




0 dB = 1.46 W/kg = 1.65 dBW/kg

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Date: 2018/8/30

## LTE Band 4 (20MHz)_Body_Left side_CH 20050_QPSK_1-50_0mm

Communication System: LTE; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1720 MHz; $\sigma$ = 1.429 S/m; $\varepsilon_r$ = 51.24; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(8.58, 8.58, 8.58) @ 1720 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.01 W/kg

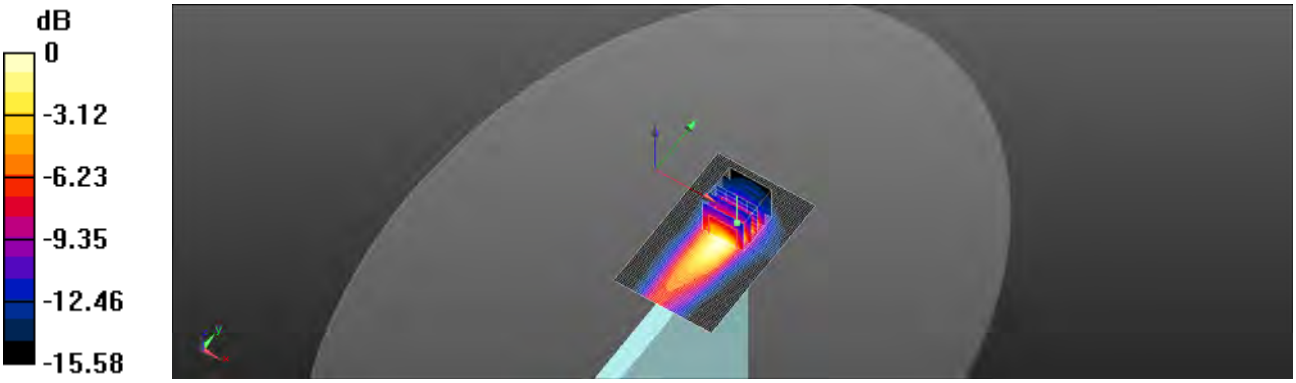
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.035 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.08 W/kg

**SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.581 W/kg**

Maximum value of SAR (measured) = 1.55 W/kg




0 dB = 1.55 W/kg = 1.91 dBW/kg

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Date: 2018/8/29

## LTE Band 5 (10MHz)_Body_Left side_CH 20525_QPSK_1-25_0mm

Communication System: LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: f = 836.5 MHz; $\sigma$ = 0.989 S/m; $\varepsilon_r$ = 57.084; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(10.39, 10.39, 10.39) @ 836.5 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.21 W/kg

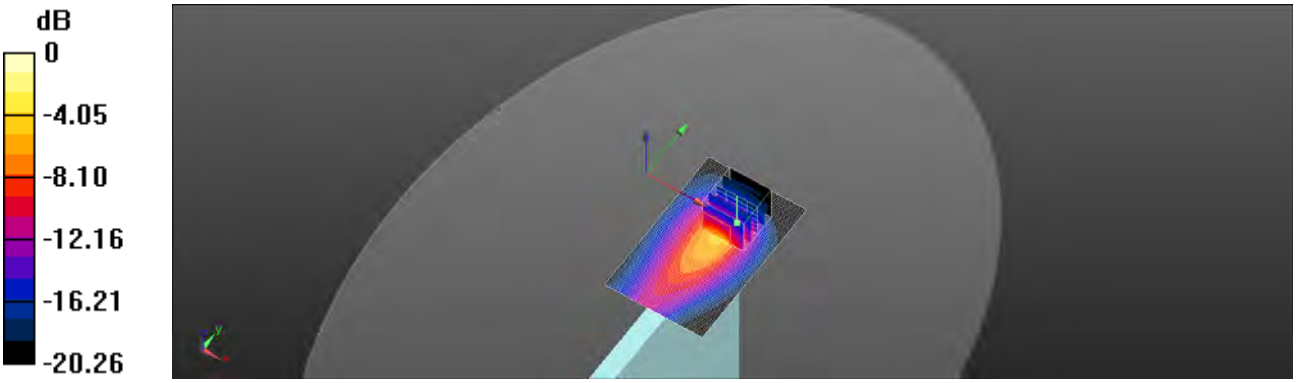
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.790 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.83 W/kg

**SAR(1 g) = 0.824 W/kg; SAR(10 g) = 0.342 W/kg**

Maximum value of SAR (measured) = 2.34 W/kg




0 dB = 2.34 W/kg = 3.69 dBW/kg

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Date: 2018/9/4

## LTE Band 7 (20MHz)_Body_Top side_CH 20850_QPSK_1-50_0mm

Communication System: LTE; Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2510 MHz; $\sigma$ = 2.116 S/m; $\varepsilon_r$ = 52.602; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(7.56, 7.56, 7.56) @ 2510 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.29 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.744 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.32 W/kg

**SAR(1 g) = 0.641 W/kg; SAR(10 g) = 0.285 W/kg**

Maximum value of SAR (measured) = 1.30 W/kg

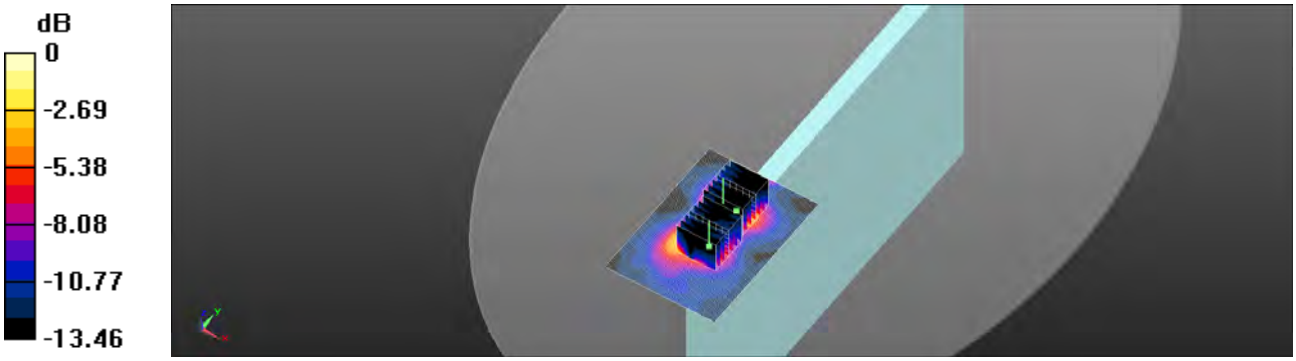
**Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.744 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.81 W/kg

**SAR(1 g) = 0.661 W/kg; SAR(10 g) = 0.291 W/kg**

Maximum value of SAR (measured) = 1.12 W/kg




0 dB = 1.12 W/kg = 0.49 dBW/kg

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Date: 2018/8/28

## LTE Band 12 (10MHz)_Body_Left side_CH 23095_QPSK_1-25_0mm

Communication System: LTE; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used: f = 707.5 MHz; $\sigma$ = 0.927 S/m; $\varepsilon_r$ = 56.962; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(10.81, 10.81, 10.81) @ 707.5 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.03 W/kg

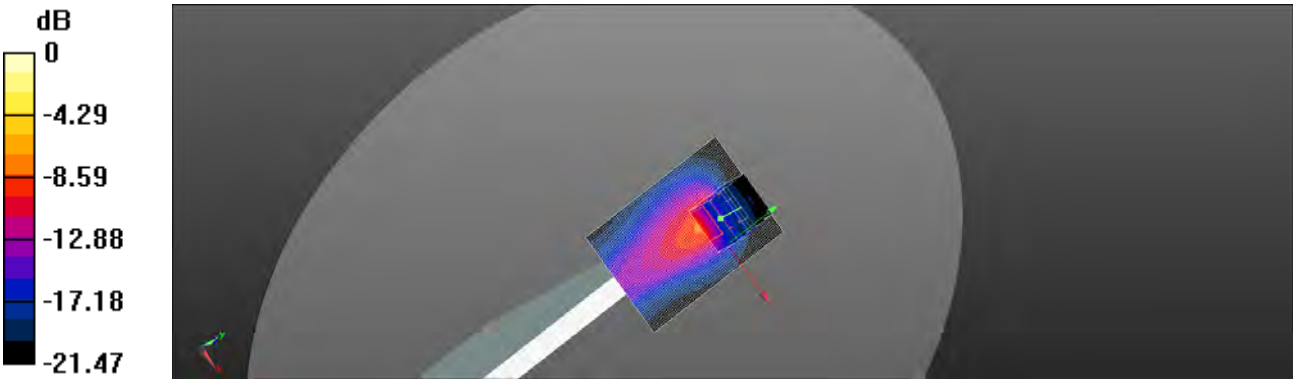
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.804 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 4.50 W/kg

**SAR(1 g) = 0.692 W/kg; SAR(10 g) = 0.237 W/kg**

Maximum value of SAR (measured) = 2.81 W/kg




0 dB = 2.81 W/kg = 4.49 dBW/kg

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Date: 2018/8/28

## LTE Band 13 (10MHz)_Body_Left side_CH 23230_QPSK_1-25_0mm

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: f = 782 MHz; $\sigma$ = 1.002 S/m; $\varepsilon_r$ = 56.342; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(10.81, 10.81, 10.81) @ 782 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.50 W/kg

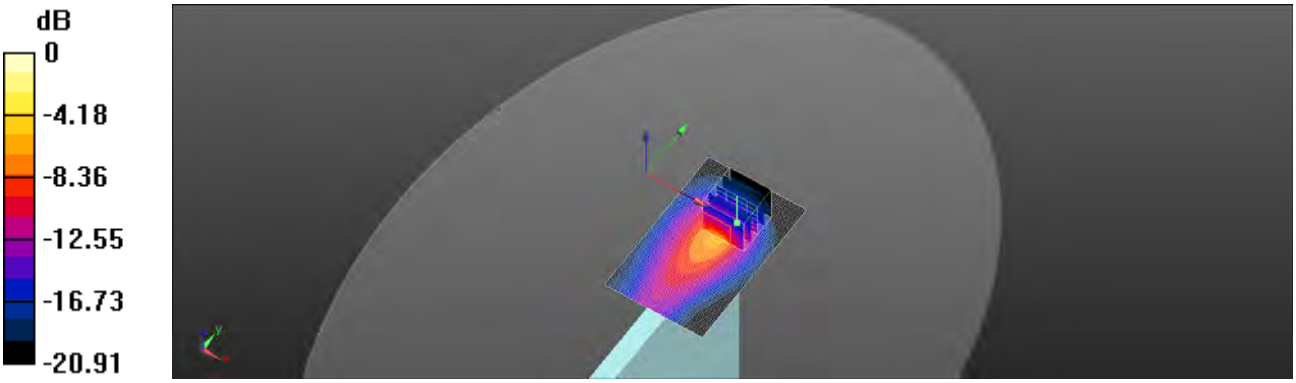
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.621 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 4.42 W/kg

**SAR(1 g) = 0.876 W/kg; SAR(10 g) = 0.342 W/kg**

Maximum value of SAR (measured) = 2.71 W/kg




0 dB = 2.71 W/kg = 4.33 dBW/kg

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Date: 2018/8/28

## LTE Band 14 (10MHz)_Body_Left side_CH 23330_QPSK_1-0_0mm

Communication System: LTE; Frequency: 793 MHz; Duty Cycle: 1:1

Medium parameters used: f = 793 MHz; $\sigma$ = 1.001 S/m; $\varepsilon_r$ = 56.312; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(10.81, 10.81, 10.81) @ 793 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.42 W/kg

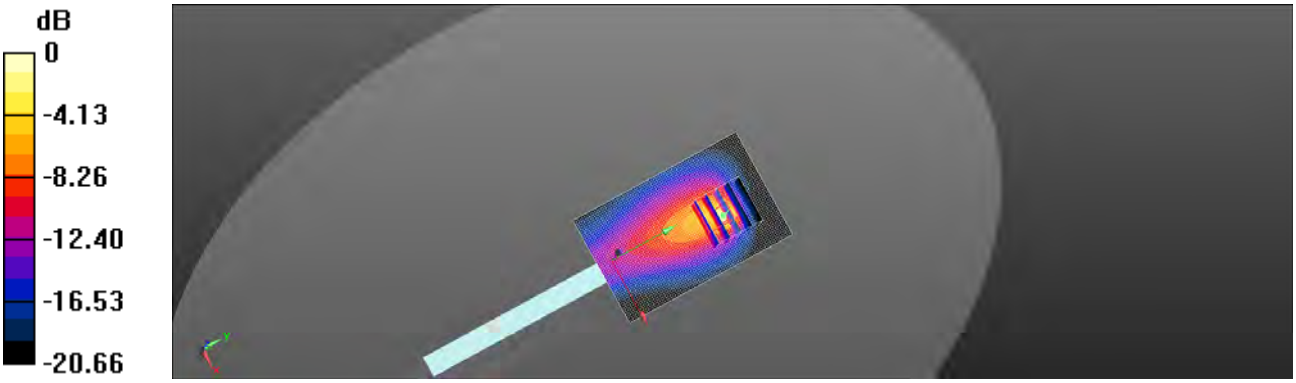
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.436 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 4.28 W/kg

**SAR(1 g) = 0.852 W/kg; SAR(10 g) = 0.337 W/kg**

Maximum value of SAR (measured) = 2.63 W/kg




0 dB = 2.63 W/kg = 4.20 dBW/kg

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Date: 2018/8/28

## LTE Band 17 (10MHz)_Body_Left side_CH 23800_QPSK_1-0_0mm

Communication System: LTE; Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used: f = 711 MHz; $\sigma$ = 0.936 S/m; $\varepsilon_r$ = 56.901; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(10.81, 10.81, 10.81) @ 711 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.01 W/kg

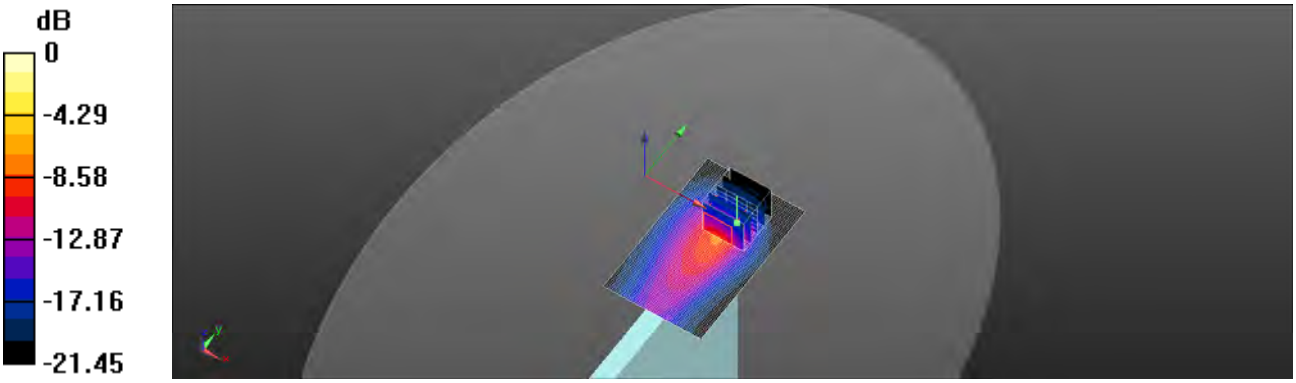
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.884 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 4.55 W/kg

**SAR(1 g) = 0.704 W/kg; SAR(10 g) = 0.243 W/kg**

Maximum value of SAR (measured) = 2.84 W/kg




0 dB = 2.84 W/kg = 4.53 dBW/kg

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Date: 2018/8/31

## LTE Band 25 (20MHz)_Body_Left side_CH 26365_QPSK_1-0_0mm

Communication System: LTE; Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1883 MHz; $\sigma$ = 1.602 S/m; $\varepsilon_r$ = 51.243; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(8.22, 8.22, 8.22) @ 1900 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.67 W/kg

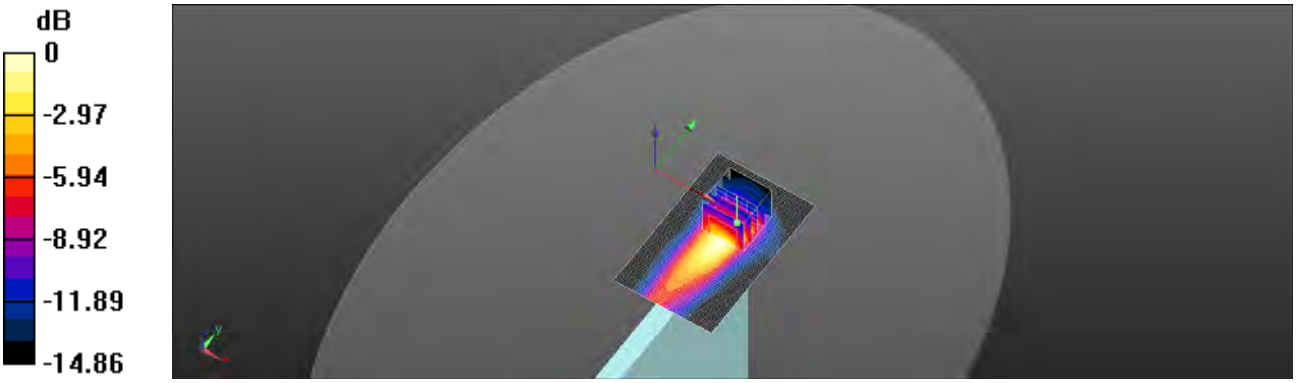
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.006 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.82 W/kg

**SAR(1 g) = 0.969 W/kg; SAR(10 g) = 0.501 W/kg**

Maximum value of SAR (measured) = 1.35 W/kg




0 dB = 1.35 W/kg = 1.61 dBW/kg

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Date: 2018/8/29

## LTE Band 26 (15MHz)_Body_Left side_CH 26965_QPSK_1-0_0mm

Communication System: LTE; Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium parameters used: f = 841.5 MHz; $\sigma$ = 0.994 S/m; $\varepsilon_r$ = 57.063; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(10.39, 10.39, 10.39) @ 841.5 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.30 W/kg

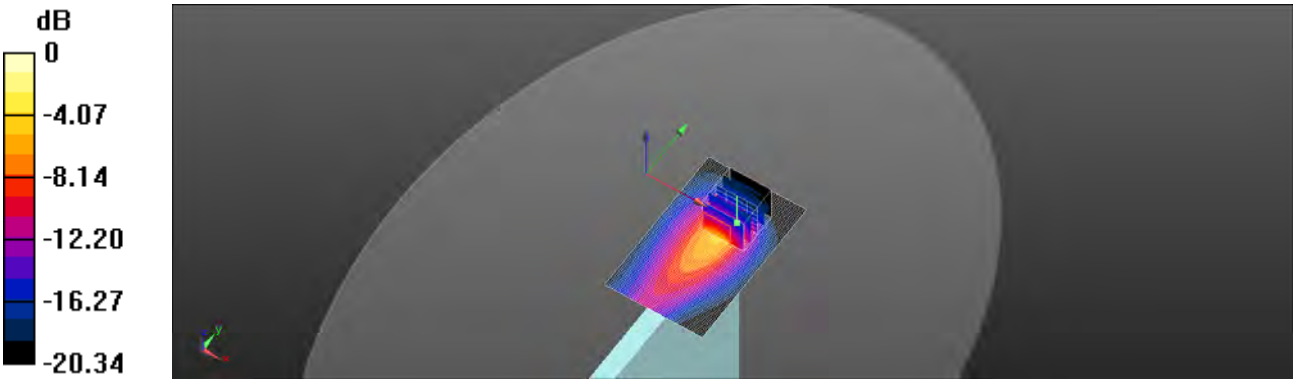
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.194 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 4.01 W/kg

**SAR(1 g) = 0.852 W/kg; SAR(10 g) = 0.353 W/kg**

Maximum value of SAR (measured) = 2.46 W/kg




0 dB = 2.46 W/kg = 3.90 dBW/kg

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Date: 2018/9/3

## LTE Band 30 (10MHz)_Body_Left side_CH 27710_QPSK_1-49_0mm

Communication System: LTE; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2310 MHz; $\sigma$ = 1.845 S/m; $\varepsilon_r$ = 53.3; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(7.98, 7.98, 7.98) @ 2310 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (61x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.47 W/kg

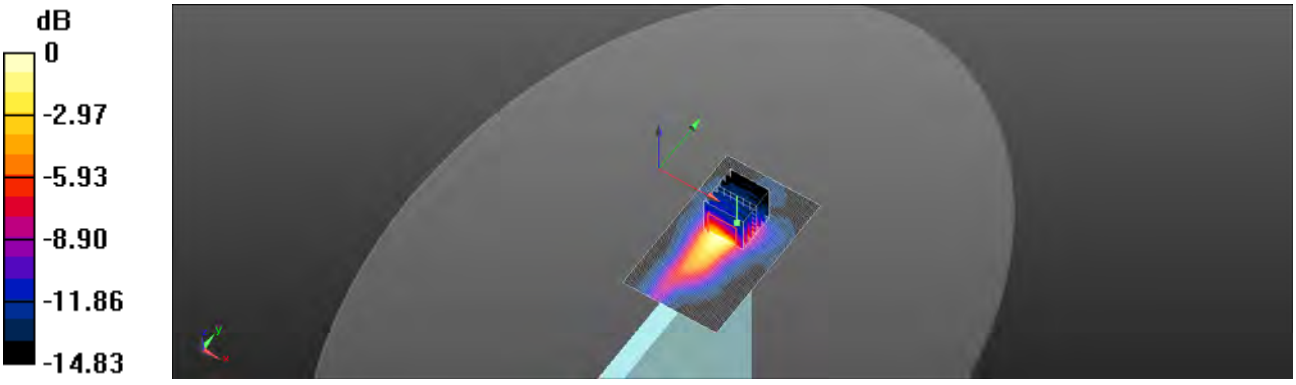
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.024 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.76 W/kg

**SAR(1 g) = 0.708 W/kg; SAR(10 g) = 0.339 W/kg**

Maximum value of SAR (measured) = 1.11 W/kg




0 dB = 1.11 W/kg = 0.44 dBW/kg

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Date: 2018/9/7

## LTE Band 38 (20MHz)_Body_Top side_CH 38150_QPSK_1-0_0mm

Communication System: LTE; Frequency: 2610 MHz; Duty Cycle: 1:1.59956

Medium parameters used: f = 2610 MHz; $\sigma$ = 2.241 S/m; $\varepsilon_r$ = 52.785; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(7.98, 7.98, 7.98) @ 2310 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.173 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.019 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.273 W/kg

**SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.043 W/kg**

Maximum value of SAR (measured) = 0.173 W/kg

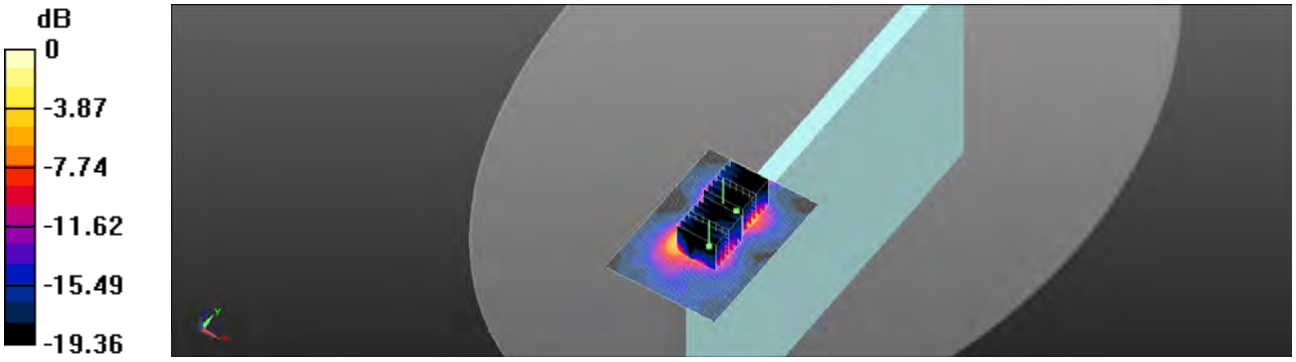
**Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.019 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.214 W/kg

**SAR(1 g) = 0.077 W/kg; SAR(10 g) = 0.035 W/kg**

Maximum value of SAR (measured) = 0.165 W/kg




0 dB = 0.173 W/kg = -8.11 dBW/kg

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Date: 2018/9/4

## LTE Band 41 (20MHz)_Body_Top side_CH 41055_QPSK_1-0_0mm

Communication System: LTE; Frequency: 2636.5 MHz; Duty Cycle: 1:1.59956

Medium parameters used: f = 2636.5 MHz; $\sigma$ = 2.295 S/m; $\varepsilon_r$ = 52.191; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(7.98, 7.98, 7.98) @ 2310 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (71x101x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.962 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.239 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.50 W/kg

**SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.274 W/kg**

Maximum value of SAR (measured) = 0.997 W/kg

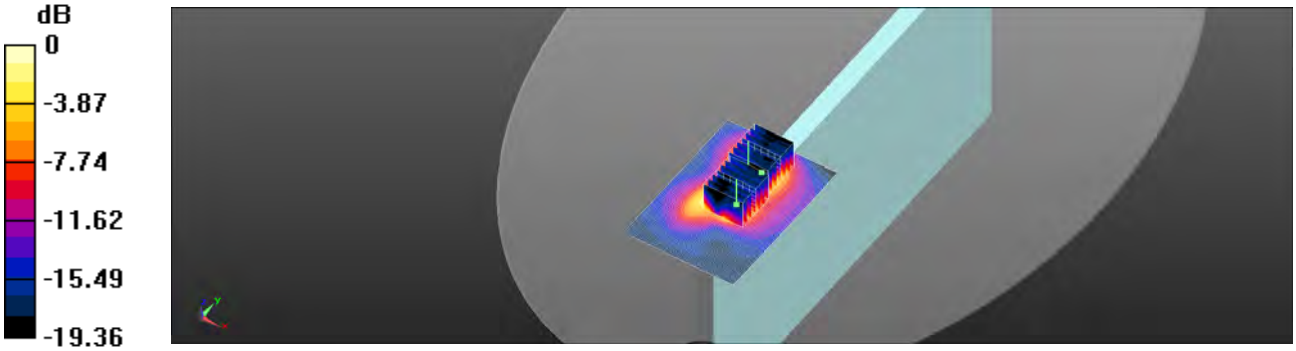
**Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.239 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.47 W/kg

**SAR(1 g) = 0.461 W/kg; SAR(10 g) = 0.216 W/kg**

Maximum value of SAR (measured) = 0.948 W/kg




0 dB = 0.997 W/kg = -0.01 dBW/kg

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Date: 2018/8/30

## LTE Band 66 (20MHz)_Body_Left side_CH 132572_QPSK_1-0_0mm

Communication System: LTE; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1770 MHz; $\sigma$ = 1.482 S/m; $\varepsilon_r$ = 51.095; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(8.58, 8.58, 8.58) @ 1770 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (51x81x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.97 W/kg

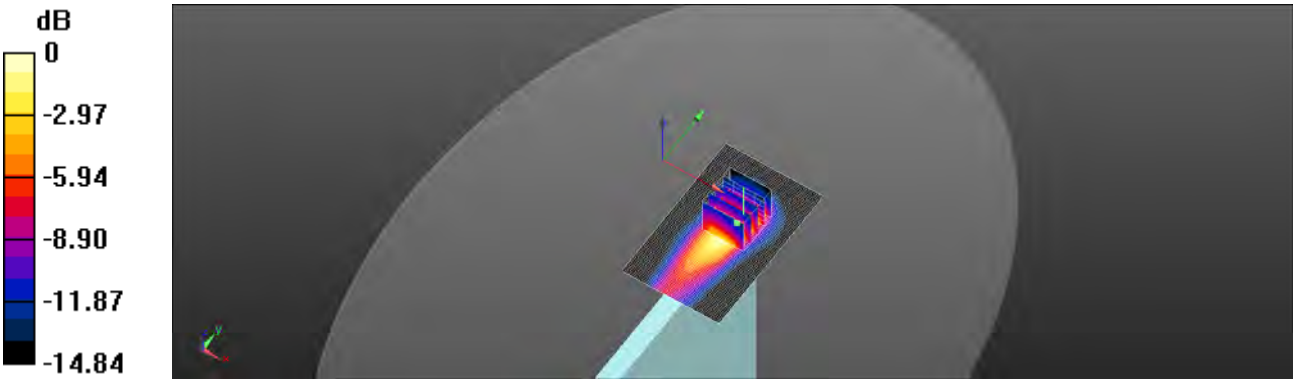
**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.490 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.01 W/kg

**SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.565 W/kg**

Maximum value of SAR (measured) = 1.53 W/kg




0 dB = 1.53 W/kg = 1.86 dBW/kg

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Date: 2018/7/28

## WLAN 802.11b_Body_Top side_CH 1_Main_0mm

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2412 MHz; $\sigma$ = 1.882 S/m; $\varepsilon_r$ = 53; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(7.26, 7.26, 7.26); Calibrated: 2018/1/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2018/3/16
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (61x91x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.07 W/kg

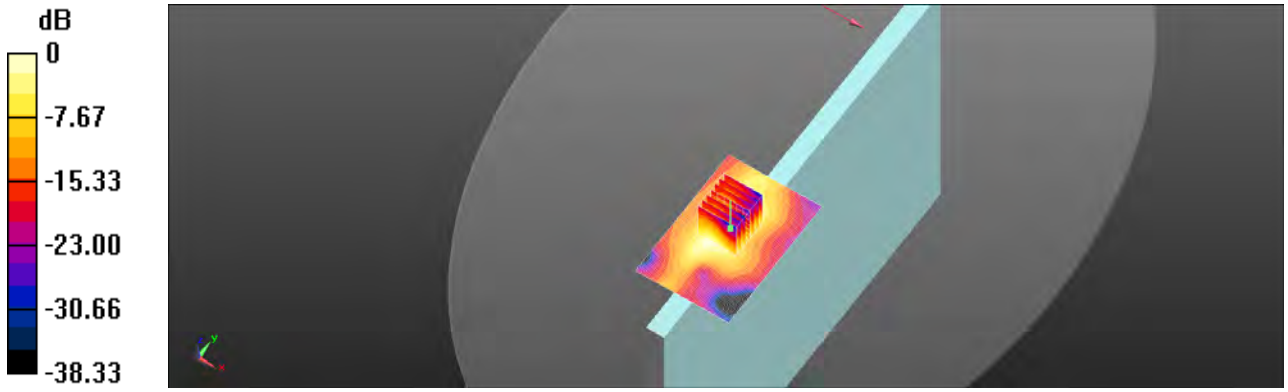
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.229 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.57 W/kg

**SAR(1 g) = 0.688 W/kg; SAR(10 g) = 0.297 W/kg**

Maximum value of SAR (measured) = 1.04 W/kg




0 dB = 1.04 W/kg = 0.16 dBW/kg

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Date: 2018/7/30

## WLAN 802.11n(40M) 5.2G_Body_Top side_CH 46_Main_0mm

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5230 MHz; $\sigma$ = 5.299 S/m; $\varepsilon_r$ = 49.609; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(4.56, 4.56, 4.56); Calibrated: 2018/1/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2018/3/16
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.35 W/kg

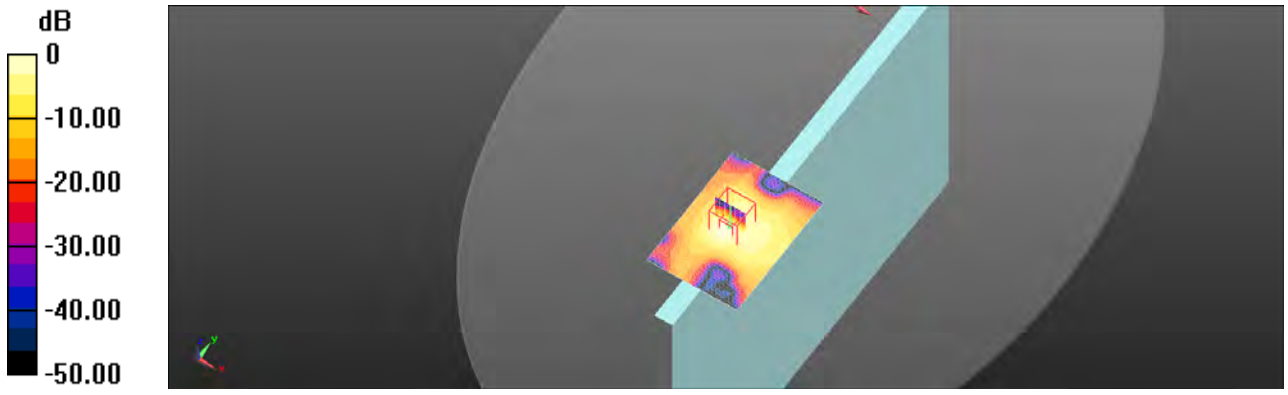
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.115 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.80 W/kg

**SAR(1 g) = 0.664 W/kg; SAR(10 g) = 0.200 W/kg**

Maximum value of SAR (measured) = 1.34 W/kg




0 dB = 1.34 W/kg = 1.26 dBW/kg

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Date: 2018/7/30

## WLAN 802.11n(40M) 5.3G_Body_Top side_CH 54_Main_0mm

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty Cycle: 1:1\

Medium parameters used: f = 5270 MHz; $\sigma$ = 5.382 S/m; $\varepsilon_r$ = 49.34; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(4.39, 4.39, 4.39); Calibrated: 2018/1/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2018/3/16
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.05 W/kg

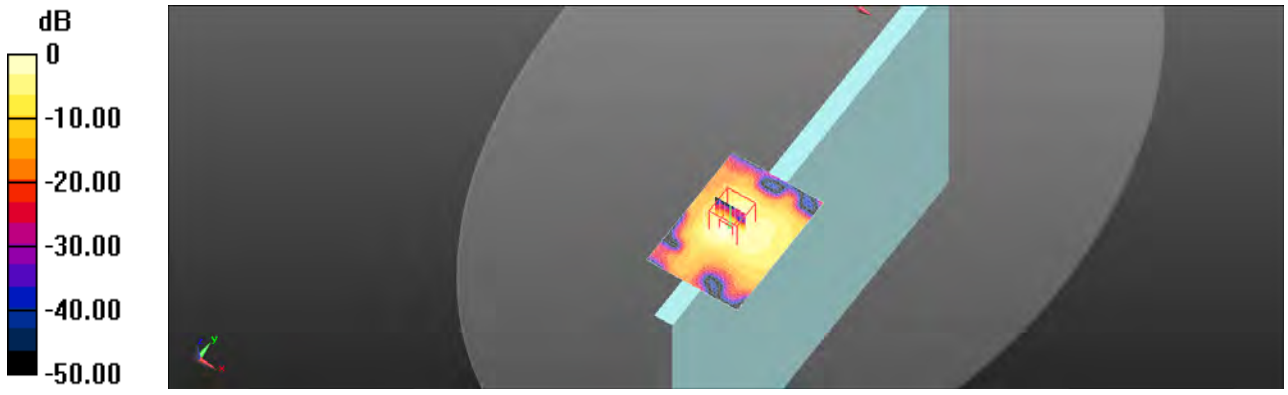
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.545 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.25 W/kg

**SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.156 W/kg**

Maximum value of SAR (measured) = 1.06 W/kg




0 dB = 1.06 W/kg = 0.24 dBW/kg

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Date: 2018/7/31

## WLAN 802.11ac(80M) 5.6G_Body_Top side_CH 138_Main_0mm

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5690 MHz; $\sigma$ = 5.838 S/m; $\varepsilon_r$ = 48.303; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2018/1/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2018/3/16
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.38 W/kg

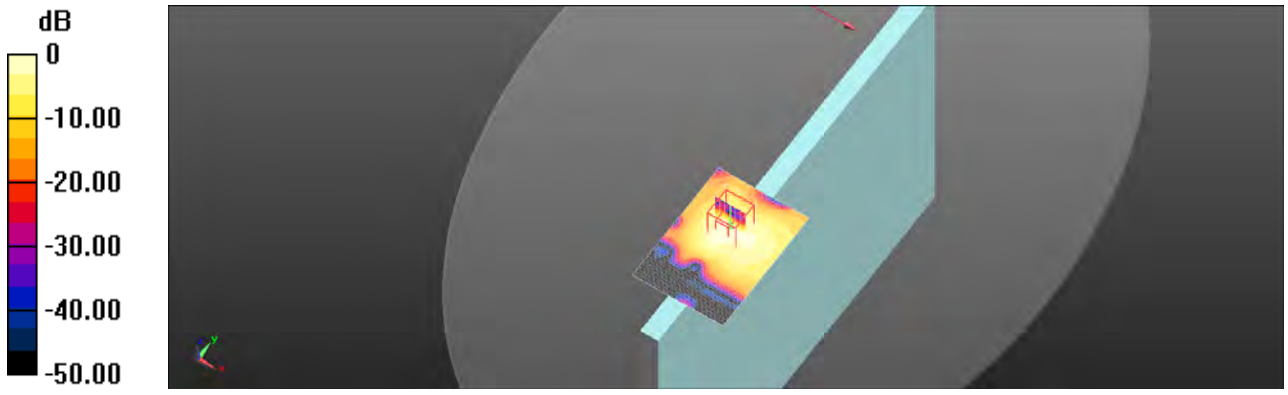
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.967 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.09 W/kg

**SAR(1 g) = 0.622 W/kg; SAR(10 g) = 0.194 W/kg**

Maximum value of SAR (measured) = 1.27 W/kg




0 dB = 1.27 W/kg = 1.04 dBW/kg

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Date: 2018/7/31

## WLAN 802.11ac(80M) 5.8G_Body_Top side_CH 155_Main_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5775 MHz; $\sigma$ = 6.004 S/m; $\varepsilon_r$ = 47.951; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(4.17, 4.17, 4.17); Calibrated: 2018/1/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2018/3/16
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.37 W/kg

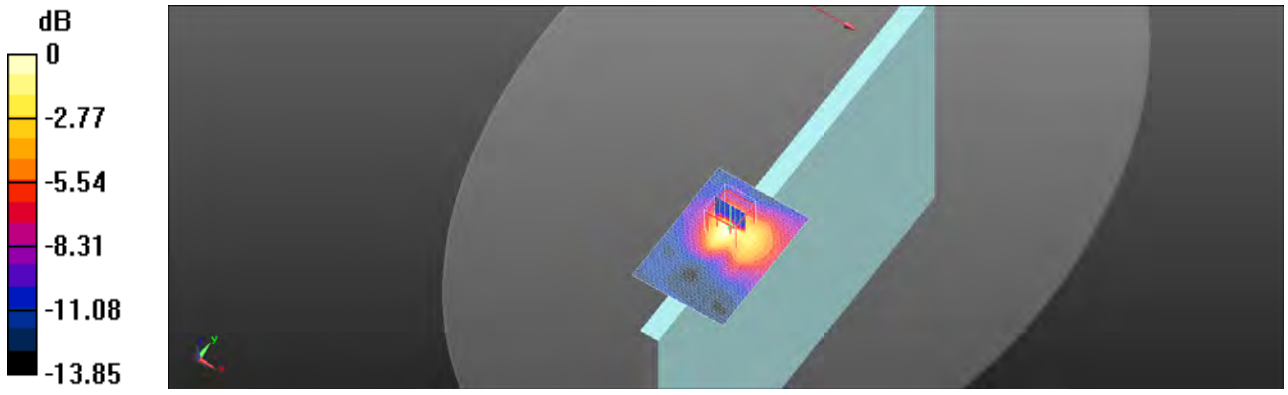
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.429 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 3.28 W/kg

**SAR(1 g) = 0.661 W/kg; SAR(10 g) = 0.277 W/kg**

Maximum value of SAR (measured) = 1.24 W/kg




0 dB = 1.24 W/kg = 0.95 dBW/kg

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Date: 2018/7/28

## WLAN 802.11b_Body_Top side_CH 1_Aux_0mm

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2412 MHz; $\sigma$ = 1.882 S/m; $\varepsilon_r$ = 53; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(7.26, 7.26, 7.26); Calibrated: 2018/1/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2018/3/16
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (61x91x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.939 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.539 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.540 W/kg; SAR(10 g) = 0.248 W/kg**

Maximum value of SAR (measured) = 0.790 W/kg

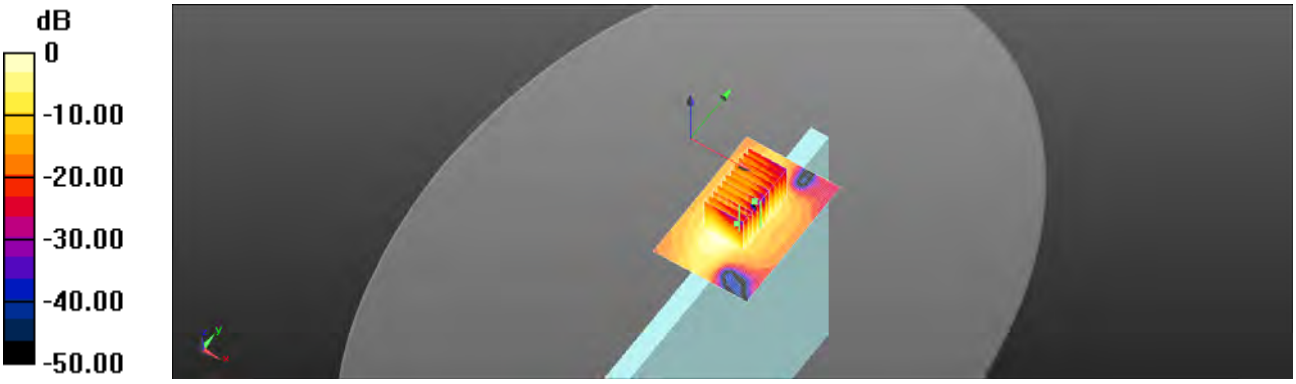
**Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.539 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.36 W/kg

**SAR(1 g) = 0.518 W/kg; SAR(10 g) = 0.245 W/kg**

Maximum value of SAR (measured) = 0.861 W/kg




0 dB = 0.861 W/kg = -0.65 dBW/kg

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Date: 2018/7/28

## Bluetooth(GFSK)_Body_Top side_CH 39_0mm

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2441 MHz; $\sigma$ = 1.92 S/m; $\varepsilon_r$ = 52.875; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(7.26, 7.26, 7.26); Calibrated: 2018/1/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2018/3/16
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (61x91x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.188 W/kg

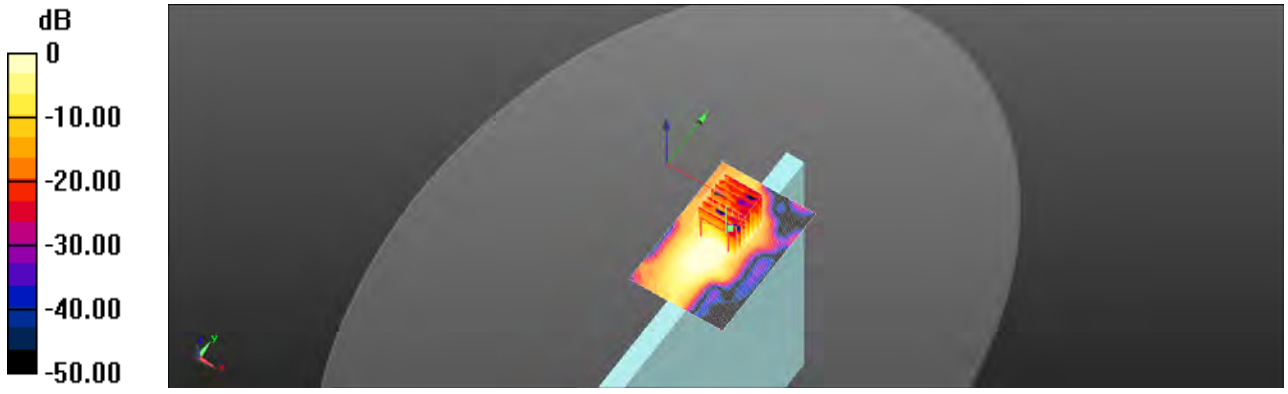
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.8740 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.244 W/kg

**SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.046 W/kg**

Maximum value of SAR (measured) = 0.158 W/kg




0 dB = 0.158 W/kg = -8.03 dBW/kg

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Date: 2018/7/30

## WLAN 802.11n(40M) 5.2G_Body_Top side_CH 38_Aux_0mm

Communication System: WLAN 5G; Frequency: 5190 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5190 MHz; $\sigma$ = 5.253 S/m; $\varepsilon_r$ = 49.677; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(4.56, 4.56, 4.56); Calibrated: 2018/1/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2018/3/16
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.43 W/kg

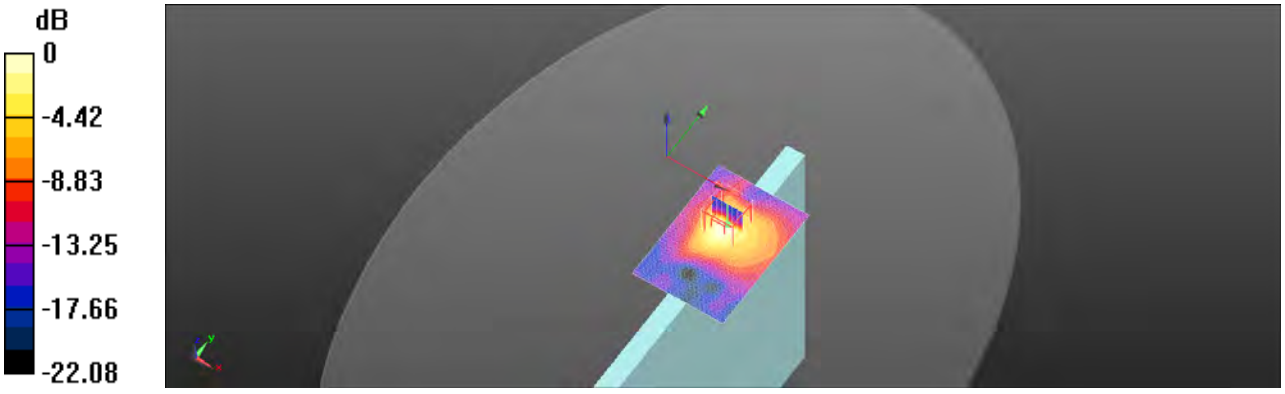
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.473 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 3.21 W/kg

**SAR(1 g) = 0.761 W/kg; SAR(10 g) = 0.264 W/kg**

Maximum value of SAR (measured) = 1.45 W/kg




0 dB = 1.45 W/kg = 1.61 dBW/kg

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Date: 2018/7/30

## WLAN 802.11n(40M) 5.3G_Body_Top side_CH 54_Aux_0mm

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5270 MHz; $\sigma$ = 5.382 S/m; $\varepsilon_r$ = 49.34; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(4.39, 4.39, 4.39); Calibrated: 2018/1/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2018/3/16
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.22 W/kg

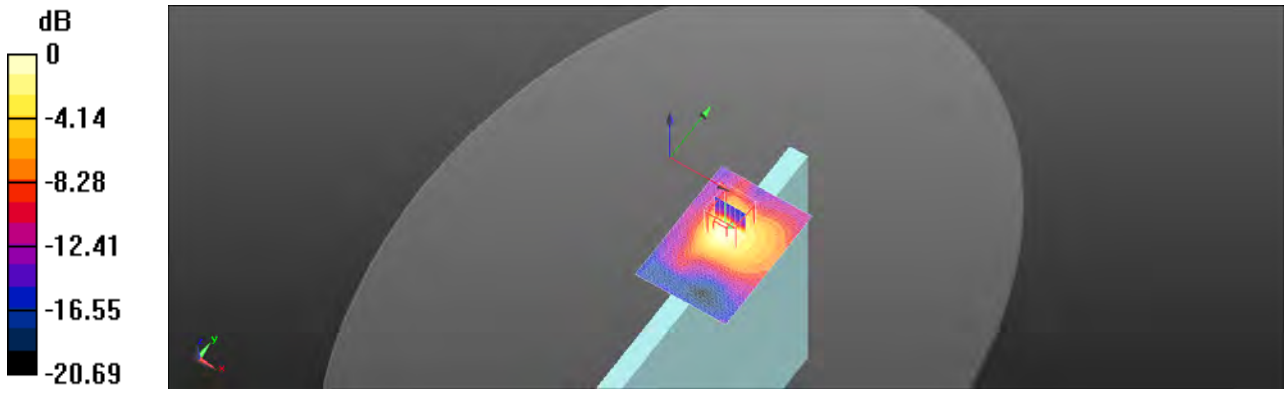
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.503 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.85 W/kg

**SAR(1 g) = 0.654 W/kg; SAR(10 g) = 0.241 W/kg**

Maximum value of SAR (measured) = 1.18 W/kg




0 dB = 1.18 W/kg = 0.72 dBW/kg

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Date: 2018/7/31

## WLAN 802.11ac(80M) 5.6G_Body_Top side_CH 138_Aux_0mm

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5690 MHz; $\sigma$ = 5.838 S/m; $\varepsilon_r$ = 48.303; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2018/1/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2018/3/16
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.45 W/kg

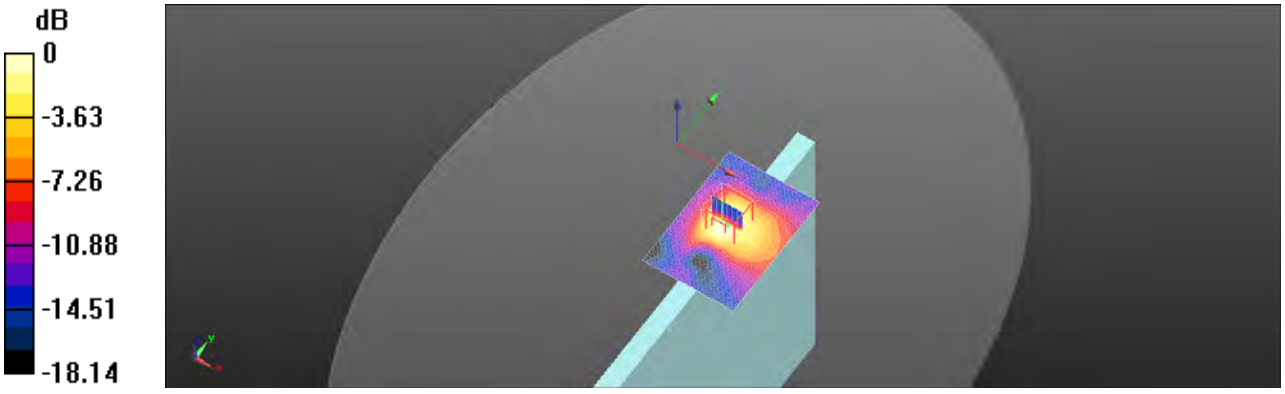
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.445 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.44 W/kg

**SAR(1 g) = 0.766 W/kg; SAR(10 g) = 0.287 W/kg**

Maximum value of SAR (measured) = 1.43 W/kg




0 dB = 1.43 W/kg = 1.54 dBW/kg

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Date: 2018/7/31

## WLAN 802.11ac(80M) 5.8G_Body_Top side_CH 155_Aux_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5775 MHz; $\sigma$ = 6.004 S/m; $\varepsilon_r$ = 47.951; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(4.17, 4.17, 4.17); Calibrated: 2018/1/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2018/3/16
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (71x101x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.23 W/kg

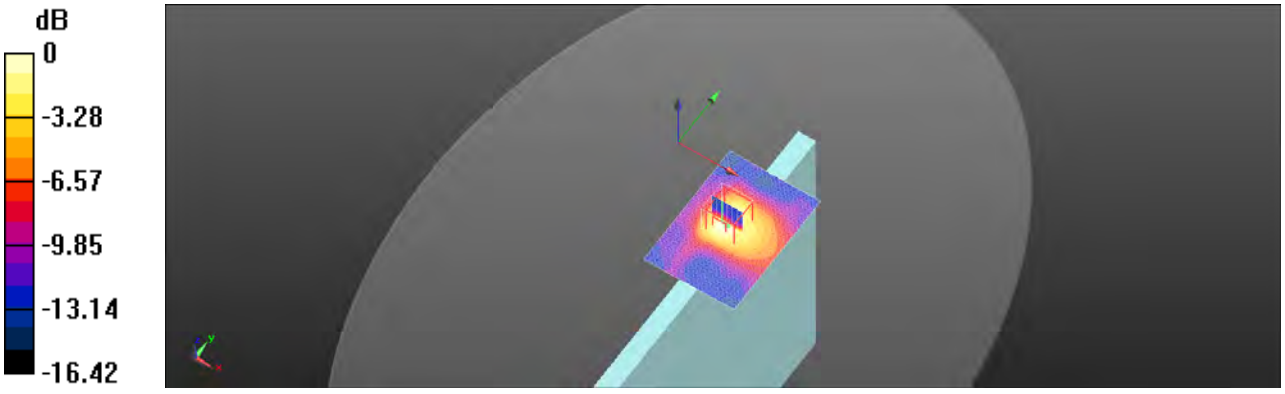
**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.936 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.97 W/kg

**SAR(1 g) = 0.647 W/kg; SAR(10 g) = 0.254 W/kg**

Maximum value of SAR (measured) = 1.20 W/kg




0 dB = 1.20 W/kg = 0.78 dBW/kg

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# 6. SAR System Performance Verification

Date: 2018/8/28

## Dipole 750 MHz_SN:1078

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: f = 750 MHz; $\sigma$ = 0.971 S/m; $\varepsilon_r$ = 56.658; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 21.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(10.81, 10.81, 10.81) @ 711 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (41x141x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.57 W/kg

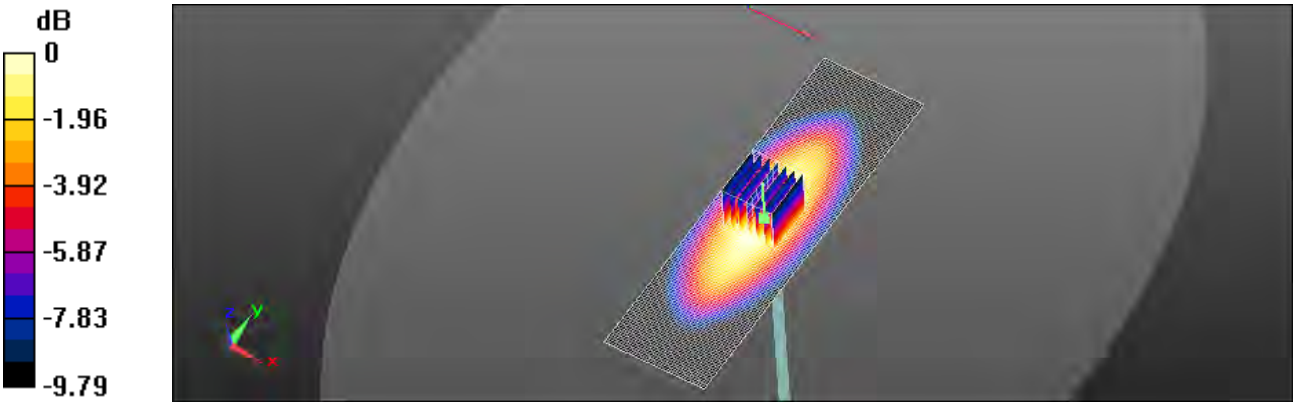
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 52.21 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.03 W/kg

**SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.38 W/kg**

Maximum value of SAR (measured) = 2.58 W/kg




0 dB = 2.58 W/kg = 4.12 dBW/kg

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Date: 2018/8/29

## Dipole 835 MHz_SN:4d120

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; $\sigma$ = 0.987 S/m; $\varepsilon_r$ = 57.137; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 21.2°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(10.39, 10.39, 10.39) @ 841.5 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (41x121x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.77 W/kg

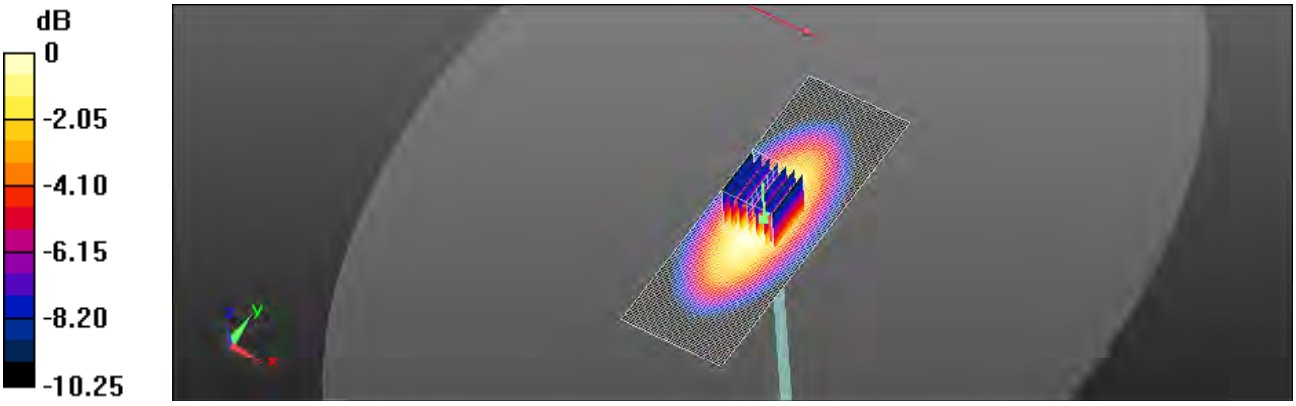
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.22 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.29 W/kg

**SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.52 W/kg**

Maximum value of SAR (measured) = 2.79 W/kg




0 dB = 2.79 W/kg = 4.46 dBW/kg

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Date: 2018/8/30

## Dipole 1750 MHz_SN:1023

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1750 MHz; $\sigma$ = 1.462 S/m; $\varepsilon_r$ = 51.161; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(8.58, 8.58, 8.58) @ 1720 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (61x61x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 12.9 W/kg

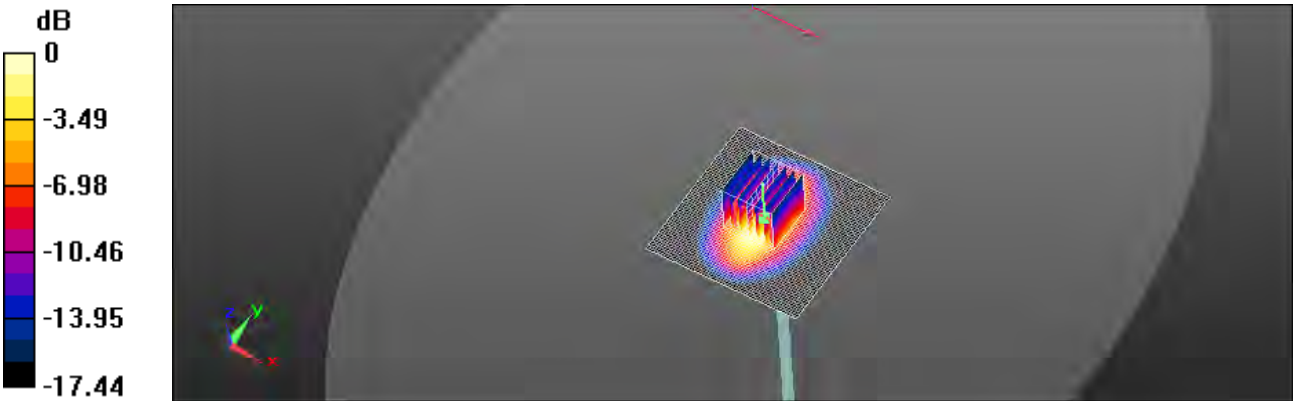
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.80 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 16.7 W/kg

**SAR(1 g) = 9.07 W/kg; SAR(10 g) = 4.86 W/kg**

Maximum value of SAR (measured) = 13.0 W/kg




0 dB = 13.0 W/kg = 11.14 dBW/kg

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Date: 2018/8/31

## Dipole 1900 MHz_SN:5d173

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; $\sigma$ = 1.619 S/m; $\varepsilon_r$ = 50.642; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 21.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(8.22, 8.22, 8.22) @ 1900 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (61x61x1):** Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.9 W/kg

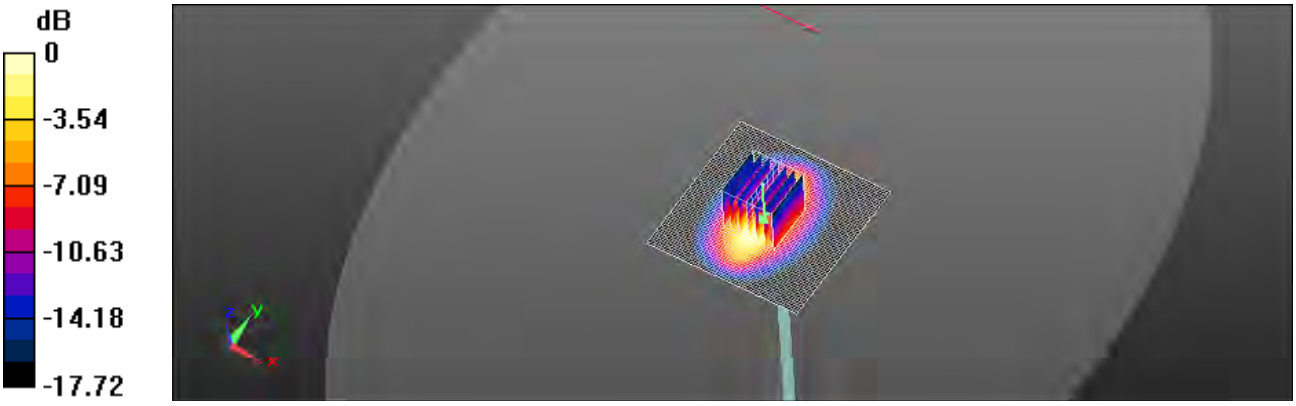
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.56 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 19.2 W/kg

**SAR(1 g) = 9.83 W/kg; SAR(10 g) = 5.13 W/kg**

Maximum value of SAR (measured) = 15.0 W/kg




0 dB = 15.0 W/kg = 11.76 dBW/kg

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Date: 2018/9/3

## Dipole 2300 MHz_SN:1006

Communication System: CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2300 MHz; $\sigma$ = 1.836 S/m; $\varepsilon_r$ = 53.343; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7351; ConvF(7.98, 7.98, 7.98) @ 2310 MHz; Calibrated: 2017/12/21
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (51x51x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 18.8 W/kg

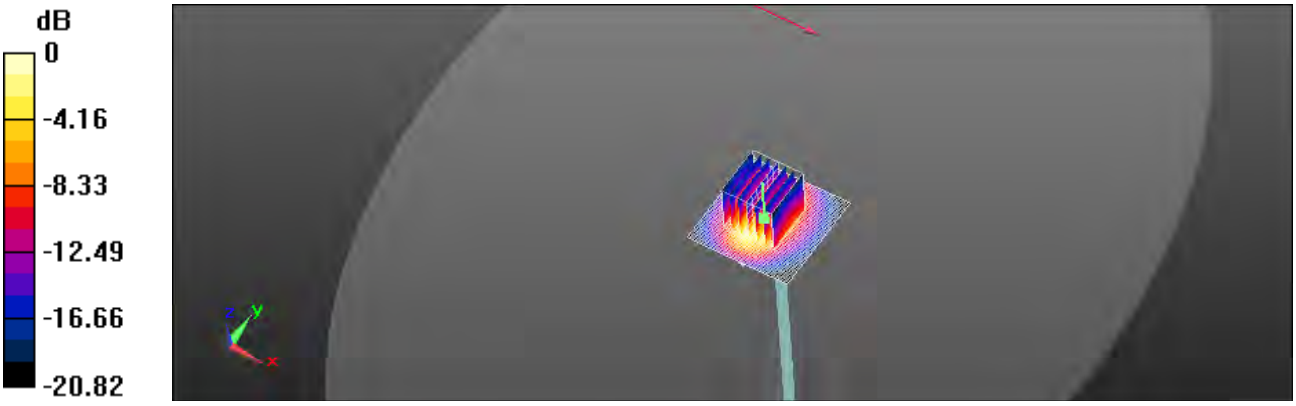
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.45 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 23.7 W/kg

**SAR(1 g) = 11.9 W/kg; SAR(10 g) = 5.69 W/kg**

Maximum value of SAR (measured) = 17.9 W/kg




0 dB = 17.9 W/kg = 12.53 dBW/kg

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Date: 2018/7/28

## Dipole 2450 MHz_SN:727

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; $\sigma$ = 1.932 S/m; $\varepsilon_r$ = 52.827; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(7.26, 7.26, 7.26); Calibrated: 2018/1/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2018/3/16
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Pin=250mW/Area Scan (61x131x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 22.3 W/kg

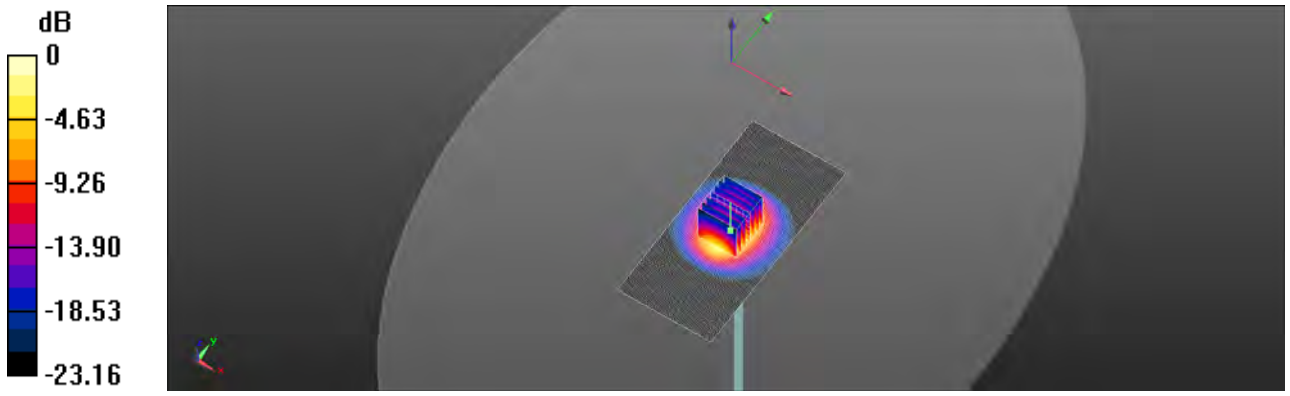
**Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 102.0 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 29.2 W/kg

**SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.13 W/kg**

Maximum value of SAR (measured) = 21.1 W/kg




0 dB = 21.1 W/kg = 13.23 dBW/kg

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Date: 2018/9/4

## Dipole 2600 MHz_SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; $\sigma$ = 2.24 S/m; $\varepsilon_r$ = 52.314; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(7.66, 7.66, 7.66) @ 2636.5 MHz; Calibrated: 2017/7/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (61x61x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 22.5 W/kg

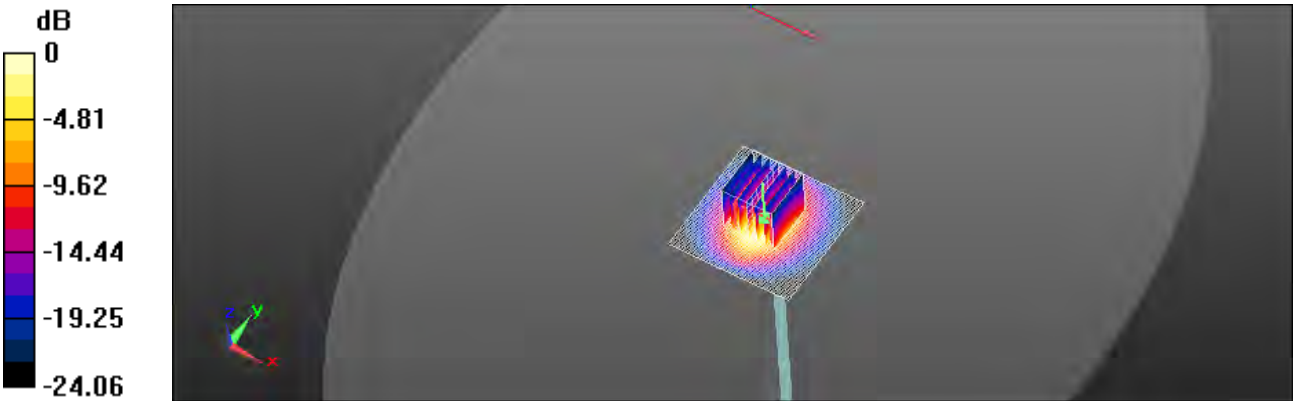
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.83 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 31.6 W/kg

**SAR(1 g) = 14.5 W/kg; SAR(10 g) = 6.42 W/kg**

Maximum value of SAR (measured) = 22.4 W/kg




0 dB = 22.4 W/kg = 13.50 dBW/kg

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Date: 2018/9/7

## Dipole 2600 MHz_SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2600 MHz; $\sigma$ = 2.231 S/m; $\varepsilon_r$ = 52.837; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7466; ConvF(7.66, 7.66, 7.66) @ 2636.5 MHz; Calibrated: 2017/7/4
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2018/8/6
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Area Scan (61x61x1):** Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 22.3 W/kg

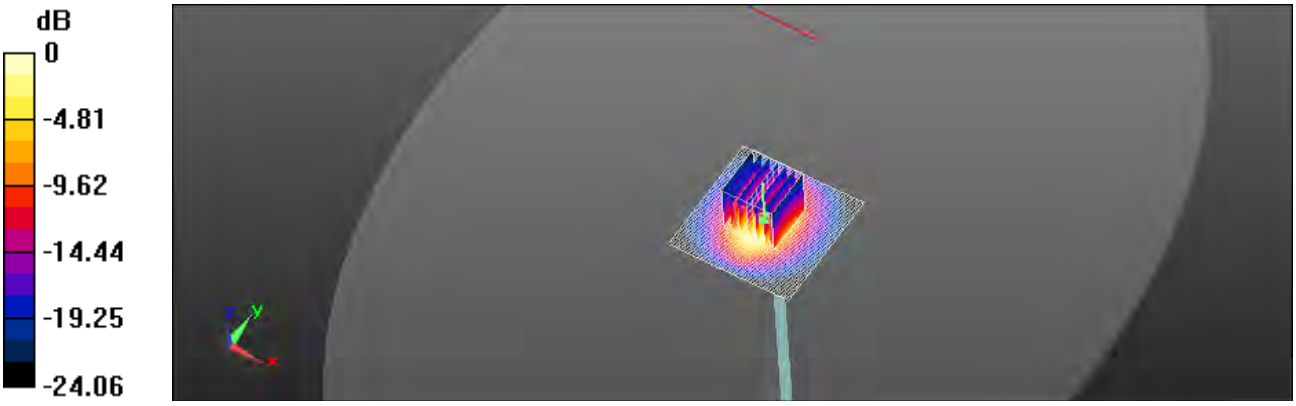
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.13 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 31.2 W/kg

**SAR(1 g) = 14.3 W/kg; SAR(10 g) = 6.38 W/kg**

Maximum value of SAR (measured) = 22.1 W/kg




0 dB = 22.1 W/kg = 13.36 dBW/kg

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Date: 2018/7/30

## Dipole 5200 MHz_SN:1023

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5200 MHz; $\sigma$ = 5.264 S/m; $\varepsilon_r$ = 49.628; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(4.56, 4.56, 4.56); Calibrated: 2018/1/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2018/3/16
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Pin=100mW/Area Scan (61x91x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.6 W/kg

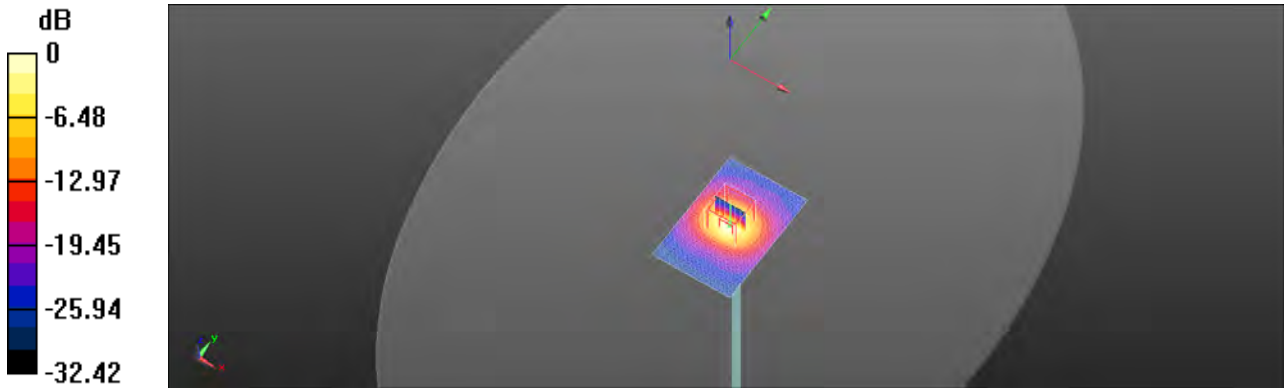
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 56.19 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 29.9 W/kg

**SAR(1 g) = 7.24 W/kg; SAR(10 g) = 2.03 W/kg**

Maximum value of SAR (measured) = 15.7 W/kg




0 dB = 15.7 W/kg = 11.95 dBW/kg

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Date: 2018/7/30

## Dipole 5300 MHz_SN:1023

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5300 MHz; $\sigma$ = 5.376 S/m; $\varepsilon_r$ = 49.301; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(4.39, 4.39, 4.39); Calibrated: 2018/1/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2018/3/16
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Pin=100mW/Area Scan (61x91x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.2 W/kg

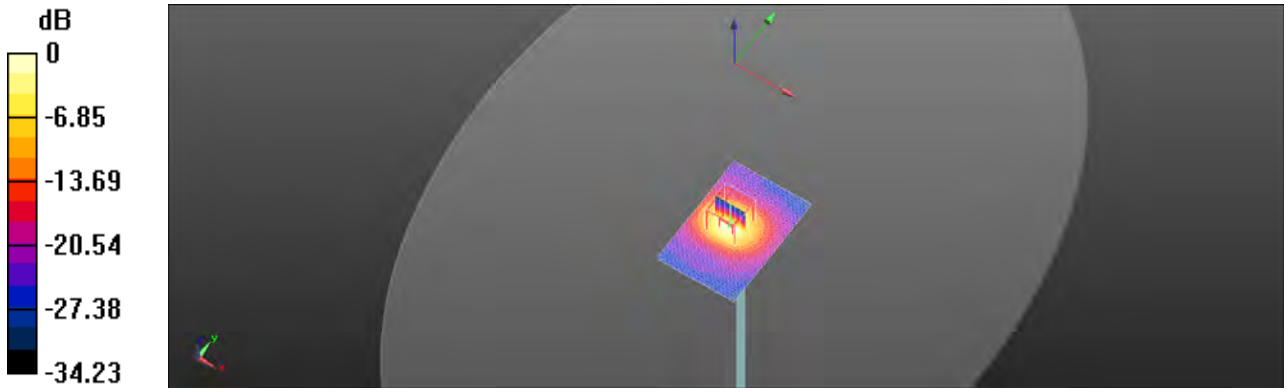
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 47.62 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 32.4 W/kg

**SAR(1 g) = 7.41 W/kg; SAR(10 g) = 2.08 W/kg**

Maximum value of SAR (measured) = 16.6 W/kg




0 dB = 16.6 W/kg = 12.21 dBW/kg

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Date: 2018/7/31

## Dipole 5600 MHz_SN:1023

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5600 MHz; $\sigma$ = 5.768 S/m; $\varepsilon_r$ = 48.51; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(3.92, 3.92, 3.92); Calibrated: 2018/1/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2018/3/16
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Pin=250mW/Area Scan (61x81x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.2 W/kg

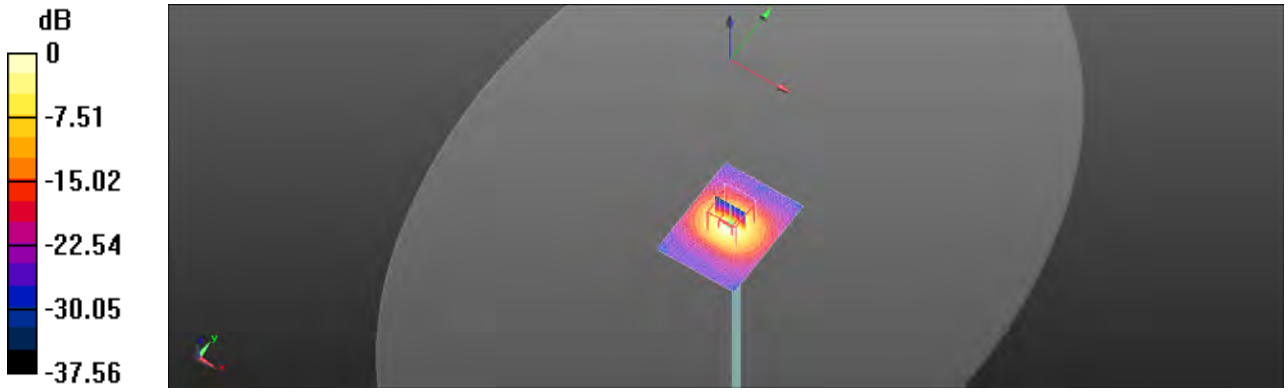
**Pin=250mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 58.66 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 33.7 W/kg

**SAR(1 g) = 7.88 W/kg; SAR(10 g) = 2.2 W/kg**

Maximum value of SAR (measured) = 17.1 W/kg




0 dB = 17.1 W/kg = 12.33 dBW/kg

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Date: 2018/7/31

## Dipole 5800 MHz_SN:1023

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5800 MHz; $\sigma$ = 6.039 S/m; $\varepsilon_r$ = 47.847; $\rho$ = 1000 kg/m$^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3831; ConvF(4.17, 4.17, 4.17); Calibrated: 2018/1/23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2018/3/16
- Phantom: ELI
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Pin=100mW/Area Scan (61x91x1):** Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.0 W/kg

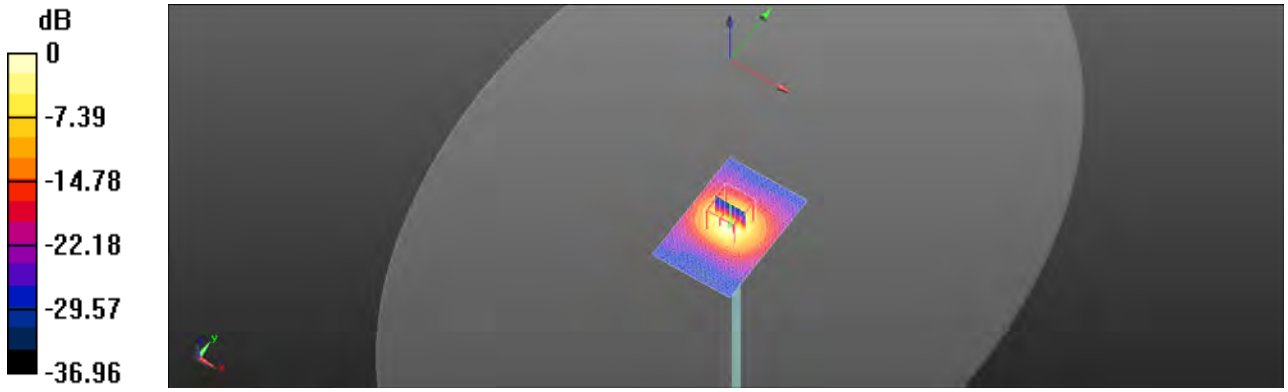
**Pin=100mW/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 54.00 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 32.9 W/kg

**SAR(1 g) = 7.45 W/kg; SAR(10 g) = 2.09 W/kg**

Maximum value of SAR (measured) = 16.0 W/kg




0 dB = 16.0 W/kg = 12.05 dBW/kg

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# 7. DAE & Probe Calibration Certificate



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Accreditation No.: SCS 0108

Client SGS-TW (Auden)

Certificate No: DAE4-1336_Aug18

## CALIBRATION CERTIFICATE

Object: DAE4 - SD 000 D04 BM - SN: 1336

Calibration procedure(s): QA CAL-06.v29
Calibration procedure for the data acquisition electronics (DAE)

Calibration date: August 06, 2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date (Certificate No.) | Scheduled Calibration |
|---|---|---|---|
| Keithley Multimeter Type 2001 | SN: 0810278 | 31-Aug-17 (No:21092) | Aug-18 |
| **Secondary Standards** | **ID #** | **Check Date (in house)** | **Scheduled Check** |
| Auto DAE Calibration Unit | SE UWS 053 AA 1001 | 04-Jan-18 (in house check) | In house check: Jan-19 |
| Calibrator Box V2.1 | SE UMS 006 AA 1002 | 04-Jan-18 (in house check) | In house check: Jan-19 |

| | Name | Function | Signature |
|---|---|---|---|
| Calibrated by: | Dominique Steffen | Laboratory Technician | |
| Approved by: | Sven Kühn | Deputy Manager | |

Issued: August 6, 2018

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Certificate No: DAE4-1336_Aug18 Page 1 of 5

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Accreditation No.: SCS 0108

**Glossary**

| | |
|---|---|
| DAE | data acquisition electronics |
| Connector angle | information used in DASY system to align probe sensor X to the robot coordinate system. |

**Methods Applied and Interpretation of Parameters**

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle:* The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - *DC Voltage Measurement Linearity:* Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
  - *Common mode sensitivity:* Influence of a positive or negative common mode voltage on the differential measurement.
  - *Channel separation:* Influence of a voltage on the neighbor channels not subject to an input voltage.
  - *AD Converter Values with inputs shorted:* Values on the internal AD converter corresponding to zero input voltage
  - *Input Offset Measurement:* Output voltage and statistical results over a large number of zero voltage measurements.
  - *Input Offset Current:* Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - *Input resistance:* Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - *Low Battery Alarm Voltage:* Typical value for information. Below this voltage, a battery alarm signal is generated.
  - *Power consumption:* Typical value for information. Supply currents in various operating modes.



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## DC Voltage Measurement

A/D - Converter Resolution nominal

| | | | |
|---|---|---|---|
| High Range: | 1LSB = | 6.1μV, | full range = -100...+300 mV |
| Low Range: | 1LSB = | 61nV, | full range = -1.....+3mV |

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Calibration Factors | X | Y | Z |
|---|---|---|---|
| High Range | 403.344 ± 0.02% (k=2) | 403.624 ± 0.02% (k=2) | 403.107 ± 0.02% (k=2) |
| Low Range | 3.95102 ± 1.50% (k=2) | 3.98703 ± 1.50% (k=2) | 3.99683 ± 1.50% (k=2) |

## Connector Angle

| | |
|---|---|
| **Connector Angle** to be used in DASY system | 287.0 ° ± 1 ° |



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## Appendix (Additional assessments outside the scope of SCS0108)

### 1. DC Voltage Linearity

| High Range | | Reading (μV) | Difference (μV) | Error (%) |
|---|---|---|---|---|
| Channel X | + Input | 200042.98 | 8.65 | 0.00 |
| Channel X | + Input | 20006.34 | 1.11 | 0.01 |
| Channel X | - Input | -20005.65 | -0.56 | 0.00 |
| Channel Y | + Input | 200034.32 | 0.12 | 0.00 |
| Channel Y | + Input | 20003.47 | -1.57 | -0.01 |
| Channel Y | - Input | -20006.39 | -1.21 | 0.01 |
| Channel Z | + Input | 200032.22 | -2.05 | -0.00 |
| Channel Z | + Input | 20002.78 | -2.14 | -0.01 |
| Channel Z | - Input | -20007.34 | -2.09 | 0.01 |

| Low Range | | Reading (μV) | Difference (μV) | Error (%) |
|---|---|---|---|---|
| Channel X | + Input | 2001.47 | 0.30 | 0.01 |
| Channel X | + Input | 201.92 | 0.79 | 0.39 |
| Channel X | - Input | -198.26 | 0.59 | -0.30 |
| Channel Y | + Input | 2001.55 | 0.37 | 0.02 |
| Channel Y | + Input | 200.97 | -0.11 | -0.05 |
| Channel Y | - Input | -199.34 | -0.43 | 0.22 |
| Channel Z | + Input | 2001.12 | 0.04 | 0.00 |
| Channel Z | + Input | 200.15 | -0.88 | -0.44 |
| Channel Z | - Input | -200.14 | -1.15 | 0.58 |

### 2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | Common mode Input Voltage (mV) | High Range Average Reading (μV) | Low Range Average Reading (μV) |
|---|---|---|---|
| Channel X | 200 | 6.04 | 4.72 |
| | - 200 | -4.13 | -4.79 |
| Channel Y | 200 | -3.65 | -3.78 |
| | 200 | 2.68 | 2.45 |
| Channel Z | 200 | 22.40 | 22.16 |
| | - 200 | -24.83 | -25.10 |

### 3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | Input Voltage (mV) | Channel X (μV) | Channel Y (μV) | Channel Z (μV) |
|---|---|---|---|---|
| Channel X | 200 | - | 6.12 | -1.64 |
| Channel Y | 200 | 9.19 | - | 6.46 |
| Channel Z | 200 | 8.44 | 6.31 | - |



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## 4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | High Range (LSB) | Low Range (LSB) |
|---|---|---|
| Channel X | 15666 | 16509 |
| Channel Y | 15907 | 15587 |
| Channel Z | 15855 | 15507 |

## 5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec
Input 10MΩ

| | Average (μV) | min. Offset (μV) | max. Offset (μV) | Std. Deviation (μV) |
|---|---|---|---|---|
| Channel X | 0.87 | -0.00 | 2.62 | 0.36 |
| Channel Y | 3.53 | 2.87 | 4.59 | 0.34 |
| Channel Z | -0.18 | -1.34 | 1.53 | 0.54 |

## 6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

## 7. Input Resistance (Typical values for information)

| | Zeroing (kOhm) | Measuring (MOhm) |
|---|---|---|
| Channel X | 200 | 200 |
| Channel Y | 200 | 200 |
| Channel Z | 200 | 200 |

## 8. Low Battery Alarm Voltage (Typical values for information)

| Typical values | Alarm Level (VDC) |
|---|---|
| Supply (+ Vcc) | +7.9 |
| Supply (- Vcc) | -7.6 |

## 9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|---|---|---|---|
| Supply (+ Vcc) | +0.01 | +6 | +14 |
| Supply (- Vcc) | -0.01 | -8 | -9 |



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Accreditation No.: SCS 0108

Client SGS (Auden)

Certificate No: DAE4-547_Mar18

# CALIBRATION CERTIFICATE

| | |
|---|---|
| Object | DAE4 - SD 000 D04 BM - SN: 547 |
| Calibration procedure(s) | QA CAL-06.v29<br>Calibration procedure for the data acquisition electronics (DAE) |
| Calibration date: | March 16, 2018 |

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date (Certificate No.) | Scheduled Calibration |
|---|---|---|---|
| Keithley Multimeter Type 2001 | SN: 0810278 | 31-Aug-17 (No:21092) | Aug-18 |
| **Secondary Standards** | **ID #** | **Check Date (in house)** | **Scheduled Check** |
| Auto DAE Calibration Unit | SE UWS 053 AA 1001 | 04-Jan-18 (in house check) | In house check: Jan-19 |
| Calibrator Box V2.1 | SE UMS 006 AA 1002 | 04-Jan-18 (in house check) | In house check: Jan-19 |

| | Name | Function | Signature |
|---|---|---|---|
| Calibrated by: | Eric Hainfeld | Laboratory Technician | |
| Approved by: | Sven Kühn | Deputy Manager | |

Issued: March 16, 2018

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Accreditation No.: SCS 0108

## Glossary

| | |
|---|---|
| DAE | data acquisition electronics |
| Connector angle | information used in DASY system to align probe sensor X to the robot coordinate system. |

## Methods Applied and Interpretation of Parameters

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle*: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - *DC Voltage Measurement Linearity:* Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
  - *Common mode sensitivity:* Influence of a positive or negative common mode voltage on the differential measurement.
  - *Channel separation:* Influence of a voltage on the neighbor channels not subject to an input voltage.
  - *AD Converter Values with inputs shorted:* Values on the internal AD converter corresponding to zero input voltage
  - *Input Offset Measurement*: Output voltage and statistical results over a large number of zero voltage measurements.
  - *Input Offset Current:* Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - *Input resistance:* Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - *Low Battery Alarm Voltage:* Typical value for information. Below this voltage, a battery alarm signal is generated.
  - *Power consumption:* Typical value for information. Supply currents in various operating modes.



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## DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1μV , full range = -100...+300 mV
Low Range: 1LSB = 61nV , full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Calibration Factors | X | Y | Z |
|---|---|---|---|
| High Range | 403.254 ± 0.02% (k=2) | 403.158 ± 0.02% (k=2) | 402.803 ± 0.02% (k=2) |
| Low Range | 3.95439 ± 1.50% (k=2) | 3.90484 ± 1.50% (k=2) | 3.95300 ± 1.50% (k=2) |

## Connector Angle

| Connector Angle to be used in DASY system | 90.5 ° ± 1 ° |
|---|---|



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## Appendix (Additional assessments outside the scope of SCS0108)

### 1. DC Voltage Linearity

| High Range | | Reading (μV) | Difference (μV) | Error (%) |
|---|---|---|---|---|
| Channel X | + Input | 200032.85 | -2.13 | -0.00 |
| Channel X | + Input | 20008.76 | 3.21 | 0.02 |
| Channel X | - Input | -20000.69 | 4.51 | -0.02 |
| Channel Y | + Input | 200033.55 | -4.13 | -0.00 |
| Channel Y | + Input | 20003.79 | -1.78 | -0.01 |
| Channel Y | - Input | -20006.44 | -1.22 | 0.01 |
| Channel Z | + Input | 200031.86 | -3.06 | -0.00 |
| Channel Z | + Input | 20006.10 | 0.58 | 0.00 |
| Channel Z | - Input | -20003.99 | 1.29 | -0.01 |

| Low Range | | Reading (μV) | Difference (μV) | Error (%) |
|---|---|---|---|---|
| Channel X | + Input | 2001.72 | 0.18 | 0.01 |
| Channel X | + Input | 201.65 | 0.01 | 0.01 |
| Channel X | - Input | -198.51 | -0.28 | 0.14 |
| Channel Y | + Input | 2001.34 | -0.09 | -0.00 |
| Channel Y | + Input | 200.96 | -0.70 | -0.35 |
| Channel Y | - Input | -199.61 | -1.33 | 0.67 |
| Channel Z | + Input | 2001.33 | -0.06 | -0.00 |
| Channel Z | + Input | 200.08 | -1.46 | -0.74 |
| Channel Z | - Input | -200.26 | -1.91 | 0.96 |

### 2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | Common mode Input Voltage (mV) | High Range Average Reading (μV) | Low Range Average Reading (μV) |
|---|---|---|---|
| Channel X | 200 | -3.69 | -5.17 |
| | - 200 | 5.60 | 4.08 |
| Channel Y | 200 | -0.50 | -1.15 |
| | - 200 | 0.25 | -0.51 |
| Channel Z | 200 | 5.51 | 5.17 |
| | - 200 | -7.92 | -8.28 |

### 3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | Input Voltage (mV) | Channel X (μV) | Channel Y (μV) | Channel Z (μV) |
|---|---|---|---|---|
| Channel X | 200 | - | 3.20 | -2.58 |
| Channel Y | 200 | 9.59 | - | 3.91 |
| Channel Z | 200 | 5.09 | 7.98 | - |



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## 4. AD-Converter Values with inputs shorted

DASY measurment parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | High Range (LSB) | Low Range (LSB) |
|---|---|---|
| Channel X | 16383 | 15273 |
| Channel Y | 16469 | 16100 |
| Channel Z | 16083 | 17048 |

## 5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec
Input 10MΩ

| | Average (μV) | min. Offset (μV) | max. Offset (μV) | Std. Deviation (μV) |
|---|---|---|---|---|
| Channel X | -1.57 | -2.25 | -0.71 | 0.35 |
| Channel Y | 0.27 | -0.91 | 1.98 | 0.42 |
| Channel Z | 0.12 | -1.25 | 1.42 | 0.47 |

## 6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

## 7. Input Resistance (Typical values for information)

| | Zeroing (kOhm) | Measuring (MOhm) |
|---|---|---|
| Channel X | 200 | 200 |
| Channel Y | 200 | 200 |
| Channel Z | 200 | 200 |

## 8. Low Battery Alarm Voltage (Typical values for information)

| Typical values | Alarm Level (VDC) |
|---|---|
| Supply (+ Vcc) | +7.9 |
| Supply (- Vcc) | -7.6 |

## 9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|---|---|---|---|
| Supply (+ Vcc) | +0.01 | +6 | +14 |
| Supply (- Vcc) | -0.01 | -8 | -9 |



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Accreditation No.: SCS 0108

Client Auden

Certificate No: EX3-7351_Dec17

# CALIBRATION CERTIFICATE

Object EX3DV4 - SN:7351

Calibration procedure(s) QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6
Calibration procedure for dosimetric E-field probes

Calibration date December 21, 2017

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Calibration |
|---|---|---|---|
| Power meter NRP | SN: 104778 | 04-Apr-17 (No. 217-02521/02522) | Apr-18 |
| Power sensor NRP-Z91 | SN: 103244 | 04-Apr-17 (No. 217-02521) | Apr-18 |
| Power sensor NRP-Z91 | SN: 103245 | 04-Apr-17 (No. 217-02525) | Apr-18 |
| Reference 20 dB Attenuator | SN: S5277 (20x) | 07-Apr-17 (No. 217-02528) | Apr-18 |
| Reference Probe ES3DV2 | SN: 3013 | 31-Dec-16 (No. ES3-3013_Dec16) | Dec-17 |
| DAE4 | SN: 654 | 24-Jul-17 (No. DAE4-654_Jul17) | Jul-18 |
| | | | |
| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
| Power meter E4419B | SN: GB41293874 | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A | SN: MY41496087 | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A | SN: 000110210 | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| RF generator HP 8648C | SN: US3642U01700 | 04-Aug-99 (in house check Jun-16) | In house check: Jun-18 |
| Network Analyzer HP 8753E | SN: US37390585 | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |

| | Name | Function | Signature |
|---|---|---|---|
| Calibrated by | Jeton Kastrati | Laboratory Technician | |
| Approved by | Katja Pokovic | Technical Manager | |

Issued: December 21, 2017

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Accreditation No.: SCS 0108

## Glossary:

| | |
|---|---|
| TSL | tissue simulating liquid |
| NORMx,y,z | sensitivity in free space |
| ConvF | sensitivity in TSL / NORMx,y,z |
| DCP | diode compression point |
| CF | crest factor (1/duty_cycle) of the RF signal |
| A, B, C, D | modulation dependent linearization parameters |
| Polarization φ | φ rotation around probe axis |
| Polarization ϑ | ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., ϑ = 0 is normal to probe axis |
| Connector Angle | information used in DASY system to align probe sensor X to the robot coordinate system |

## Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

## Methods Applied and Interpretation of Parameters:

- *NORMx,y,z*: Assessed for E-field polarization ϑ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below *ConvF*).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- *DCPx,y,z*: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- *PAR*: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z*: *A, B, C, D* are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. *VR* is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters*: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- *Spherical isotropy (3D deviation from isotropy)*: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset*: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle*: The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).



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# Probe EX3DV4

## SN:7351

Manufactured: October 13, 2014
Calibrated: December 21, 2017

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)



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# DASY/EASY - Parameters of Probe: EX3DV4 - SN:7351

## Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|---|---|---|---|---|
| Norm ($\mu V/(V/m)^2$)[A] | 0.47 | 0.44 | 0.45 | ± 10.1 % |
| DCP (mV)[B] | 97.9 | 104.3 | 97.1 | |

## Modulation Calibration Parameters

| UID | Communication System Name | | A dB | B dB√μV | C | D dB | VR mV | Unc[E] (k=2) |
|---|---|---|---|---|---|---|---|---|
| 0 | CW | X | 0.0 | 0.0 | 1.0 | 0.00 | 136.5 | ±3.8 % |
| | | Y | 0.0 | 0.0 | 1.0 | | 136.4 | |
| | | Z | 0.0 | 0.0 | 1.0 | | 147.3 | |

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

[A] The uncertainties of Norm X,Y,Z do not affect the $E^2$-field uncertainty inside TSL (see Pages 5 and 6).
[B] Numerical linearization parameter: uncertainty not required.
[E] Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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# DASY/EASY - Parameters of Probe: EX3DV4 - SN:7351

## Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) [C] | Relative Permittivity [F] | Conductivity (S/m) [F] | ConvF X | ConvF Y | ConvF Z | Alpha [G] | Depth [G] (mm) | Unc (k=2) |
|---|---|---|---|---|---|---|---|---|
| 750 | 41.9 | 0.89 | 10.92 | 10.92 | 10.92 | 0.55 | 0.80 | ± 12.0 % |
| 835 | 41.5 | 0.90 | 10.60 | 10.60 | 10.60 | 0.55 | 0.80 | ± 12.0 % |
| 900 | 41.5 | 0.97 | 10.31 | 10.31 | 10.31 | 0.40 | 0.95 | ± 12.0 % |
| 1750 | 40.1 | 1.37 | 8.78 | 8.78 | 8.78 | 0.28 | 0.80 | ± 12.0 % |
| 1900 | 40.0 | 1.40 | 8.50 | 8.50 | 8.50 | 0.29 | 0.80 | ± 12.0 % |
| 2000 | 40.0 | 1.40 | 8.41 | 8.41 | 8.41 | 0.30 | 0.80 | ± 12.0 % |
| 2300 | 39.5 | 1.67 | 8.03 | 8.03 | 8.03 | 0.31 | 0.84 | ± 12.0 % |
| 2450 | 39.2 | 1.80 | 7.74 | 7.74 | 7.74 | 0.34 | 0.85 | ± 12.0 % |
| 2600 | 39.0 | 1.96 | 7.51 | 7.51 | 7.51 | 0.36 | 0.81 | ± 12.0 % |
| 5200 | 36.0 | 4.66 | 5.49 | 5.49 | 5.49 | 0.35 | 1.80 | ± 13.1 % |
| 5300 | 35.9 | 4.76 | 5.15 | 5.15 | 5.15 | 0.40 | 1.80 | ± 13.1 % |
| 5500 | 35.6 | 4.96 | 5.04 | 5.04 | 5.04 | 0.40 | 1.80 | ± 13.1 % |
| 5600 | 35.5 | 5.07 | 4.81 | 4.81 | 4.81 | 0.40 | 1.80 | ± 13.1 % |
| 5800 | 35.3 | 5.27 | 4.90 | 4.90 | 4.90 | 0.40 | 1.80 | ± 13.1 % |

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.
[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.



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# DASY/EASY - Parameters of Probe: EX3DV4 - SN:7351

## Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) [C] | Relative Permittivity [F] | Conductivity (S/m) [F] | ConvF X | ConvF Y | ConvF Z | Alpha [G] | Depth [G] (mm) | Unc (k=2) |
|---|---|---|---|---|---|---|---|---|
| 750 | 55.5 | 0.96 | 10.81 | 10.81 | 10.81 | 0.40 | 0.91 | ± 12.0 % |
| 835 | 55.2 | 0.97 | 10.39 | 10.39 | 10.39 | 0.47 | 0.87 | ± 12.0 % |
| 900 | 55.0 | 1.05 | 10.18 | 10.18 | 10.18 | 0.48 | 0.85 | ± 12.0 % |
| 1750 | 53.4 | 1.49 | 8.58 | 8.58 | 8.58 | 0.37 | 0.85 | ± 12.0 % |
| 1900 | 53.3 | 1.52 | 8.22 | 8.22 | 8.22 | 0.43 | 0.80 | ± 12.0 % |
| 2000 | 53.3 | 1.52 | 8.40 | 8.40 | 8.40 | 0.31 | 0.99 | ± 12.0 % |
| 2300 | 52.9 | 1.81 | 7.98 | 7.98 | 7.98 | 0.40 | 0.87 | ± 12.0 % |
| 2450 | 52.7 | 1.95 | 7.82 | 7.82 | 7.82 | 0.37 | 0.88 | ± 12.0 % |
| 2600 | 52.5 | 2.16 | 7.56 | 7.56 | 7.56 | 0.32 | 0.93 | ± 12.0 % |
| 5200 | 49.0 | 5.30 | 4.60 | 4.60 | 4.60 | 0.40 | 1.90 | ± 13.1 % |
| 5300 | 48.9 | 5.42 | 4.56 | 4.56 | 4.56 | 0.40 | 1.90 | ± 13.1 % |
| 5500 | 48.6 | 5.65 | 4.09 | 4.09 | 4.09 | 0.45 | 1.90 | ± 13.1 % |
| 5600 | 48.5 | 5.77 | 3.98 | 3.98 | 3.98 | 0.45 | 1.90 | ± 13.1 % |
| 5800 | 48.2 | 6.00 | 4.21 | 4.21 | 4.21 | 0.45 | 1.90 | ± 13.1 % |

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

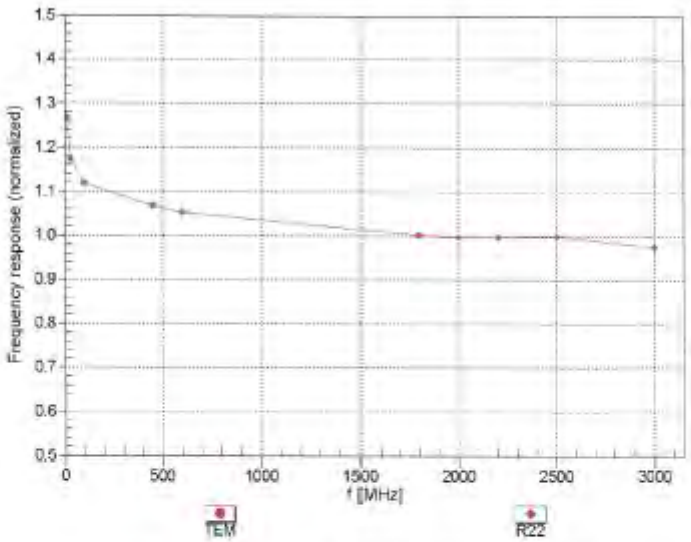
[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.



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EX3DV4- SN:7351 December 21, 2017

## Frequency Response of E-Field
(TEM-Cell:ifi110 EXX, Waveguide: R22)



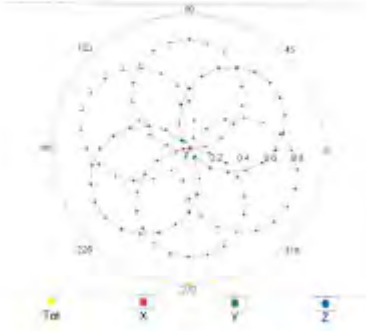

Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)



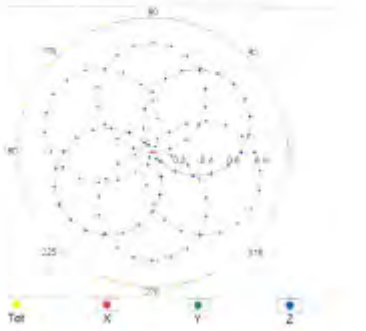
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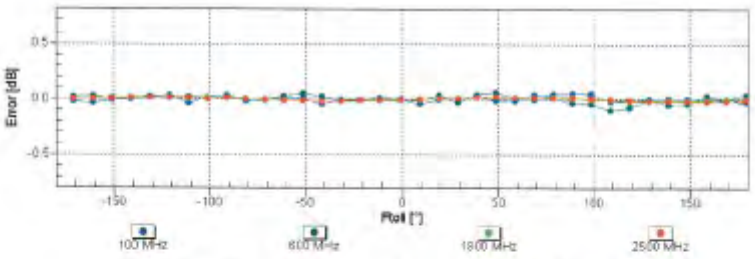
## Receiving Pattern (ϕ), ϑ = 0°

f=600 MHz,TEM




f=1800 MHz,R22



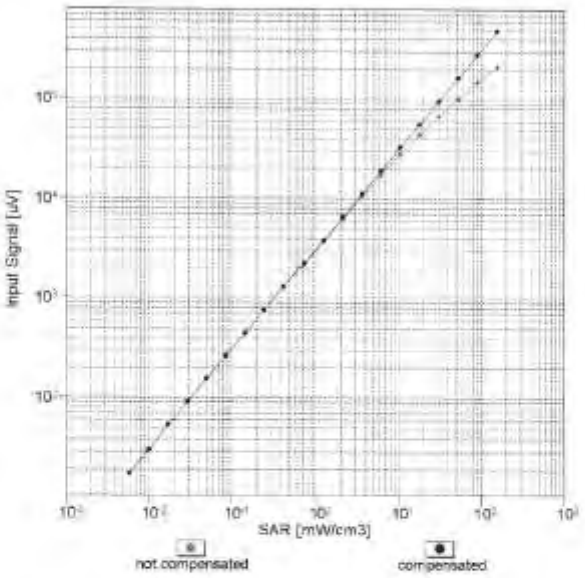



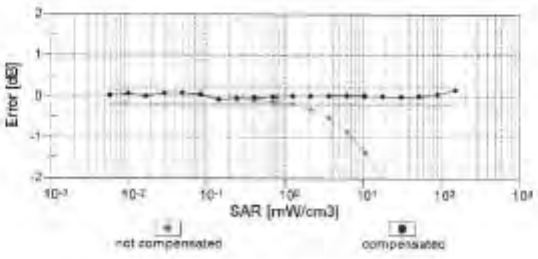

Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)



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## Dynamic Range f(SAR$_{head}$)
(TEM cell , $f_{eval}$= 1900 MHz)




Uncertainty of Linearity Assessment: ± 0.6% (k=2)

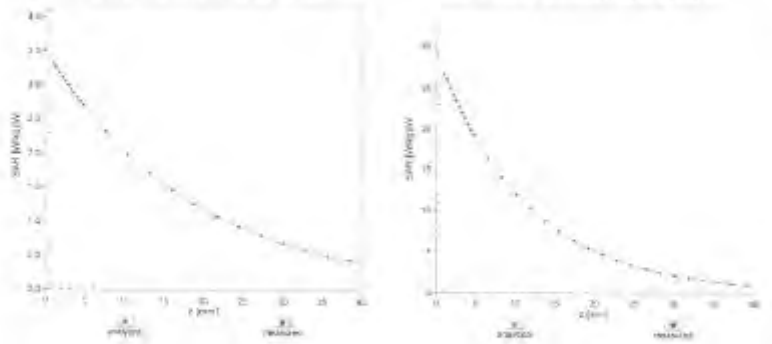


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EX3DV4- SN:7351 December 21, 2017

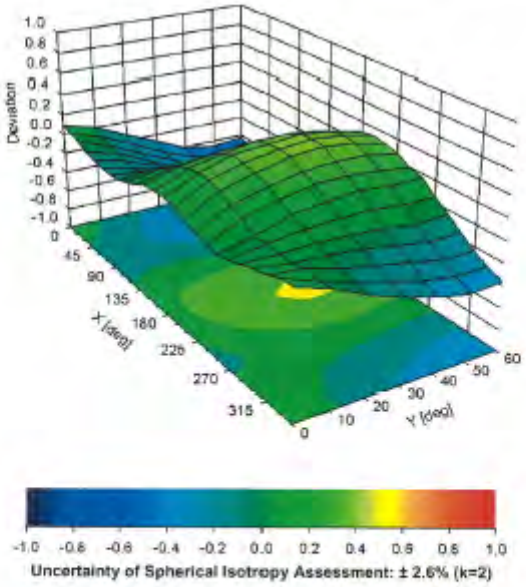
## Conversion Factor Assessment

f = 835 MHz,WGLS R9 (H_convF) f = 1900 MHz,WGLS R22 (H_convF)



## Deviation from Isotropy in Liquid

Error (ϕ, ϑ), f = 900 MHz







Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

Certificate No: EX3-7351_Dec17 Page 10 of 11

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# DASY/EASY - Parameters of Probe: EX3DV4 - SN:7351

## Other Probe Parameters

| | |
|---|---|
| Sensor Arrangement | Triangular |
| Connector Angle (°) | 88.8 |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disabled |
| Probe Overall Length | 337 mm |
| Probe Body Diameter | 10 mm |
| Tip Length | 9 mm |
| Tip Diameter | 2.5 mm |
| Probe Tip to Sensor X Calibration Point | 1 mm |
| Probe Tip to Sensor Y Calibration Point | 1 mm |
| Probe Tip to Sensor Z Calibration Point | 1 mm |
| Recommended Measurement Distance from Surface | 1.4 mm |



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Accreditation No.: SCS 0108

Client SGS-TW (Auden)

Certificate No: EX3-3831_Jan18

# CALIBRATION CERTIFICATE

Object: EX3DV4 - SN:3831

Calibration procedure(s): QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v8
Calibration procedure for dosimetric E-field probes

Calibration date: January 23, 2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Calibration |
|---|---|---|---|
| Power meter NRP | SN: 104778 | 04-Apr-17 (No. 217-02521/02522) | Apr-18 |
| Power sensor NRP-Z91 | SN: 103244 | 04-Apr-17 (No. 217-02521) | Apr-18 |
| Power sensor NRP-Z91 | SN: 103245 | 04-Apr-17 (No. 217-02525) | Apr-18 |
| Reference 20 dB Attenuator | SN: S5277 (20x) | 07-Apr-17 (No. 217-02528) | Apr-18 |
| Reference Probe ES3DV2 | SN: 3013 | 30-Dec-17 (No. ES3-3013_Dec17) | Dec-18 |
| DAE4 | SN: 660 | 21-Dec-17 (No. DAE4-660_Dec17) | Dec-18 |
| | | | |
| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
| Power meter E4419B | SN: GB41293874 | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A | SN: MY41498087 | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A | SN: 000110210 | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| RF generator HP 8648C | SN: US3642U01700 | 04-Aug-99 (in house check Jun-16) | In house check: Jun-18 |
| Network Analyzer HP 8753E | SN: US37390585 | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |

| | Name | Function | Signature |
|---|---|---|---|
| Calibrated by: | Michael Weber | Laboratory Technician | |
| Approved by: | Katja Pokovic | Technical Manager | |

Issued: January 25, 2018

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Accreditation No.: SCS 0108

## Glossary:

| | |
|---|---|
| TSL | tissue simulating liquid |
| NORMx,y,z | sensitivity in free space |
| ConvF | sensitivity in TSL / NORMx,y,z |
| DCP | diode compression point |
| CF | crest factor (1/duty_cycle) of the RF signal |
| A, B, C, D | modulation dependent linearization parameters |
| Polarization φ | φ rotation around probe axis |
| Polarization ϑ | ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e. ϑ = 0 is normal to probe axis |
| Connector Angle | information used in DASY system to align probe sensor X to the robot coordinate system |

## Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

## Methods Applied and Interpretation of Parameters:

- *NORMx,y,z:* Assessed for E-field polarization ϑ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the $E^2$-field uncertainty inside TSL (see below *ConvF*).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- *DCPx,y,z:* DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- *PAR:* PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z:* *A, B, C, D* are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. *VR* is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters:* Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- *Spherical isotropy (3D deviation from isotropy):* in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset:* The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle:* The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).



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# Probe EX3DV4

## SN:3831

Manufactured: September 6, 2011
Calibrated: January 23, 2018

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)



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# DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

## Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|---|---|---|---|---|
| Norm ($\mu V/(V/m)^2$)[A] | 0.43 | 0.41 | 0.42 | ± 10.1 % |
| DCP (mV)[B] | 100.3 | 106.6 | 101.4 | |

## Modulation Calibration Parameters

| UID | Communication System Name | | A dB | B dB$\sqrt{\mu V}$ | C | D dB | VR mV | Unc[E] (k=2) |
|---|---|---|---|---|---|---|---|---|
| 0 | CW | X | 0.0 | 0.0 | 1.0 | 0.00 | 176.5 | ±3.5 % |
| | | Y | 0.0 | 0.0 | 1.0 | | 196.9 | |
| | | Z | 0.0 | 0.0 | 1.0 | | 196.8 | |

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

[A] The uncertainties of Norm X,Y,Z do not affect the $E^2$-field uncertainty inside TSL (see Pages 5 and 6).
[B] Numerical linearization parameter: uncertainty not required.
[E] Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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# DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

## Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz)[C] | Relative Permittivity[F] | Conductivity (S/m)[F] | ConvF X | ConvF Y | ConvF Z | Alpha[G] | Depth[G] (mm) | Unc (k=2) |
|---|---|---|---|---|---|---|---|---|
| 750 | 41.9 | 0.89 | 9.55 | 9.55 | 9.55 | 0.32 | 1.00 | ± 12.0 % |
| 835 | 41.5 | 0.90 | 9.10 | 9.10 | 9.10 | 0.29 | 1.04 | ± 12.0 % |
| 900 | 41.5 | 0.97 | 9.00 | 9.00 | 9.00 | 0.40 | 0.85 | ± 12.0 % |
| 1750 | 40.1 | 1.37 | 8.09 | 8.09 | 8.09 | 0.37 | 0.80 | ± 12.0 % |
| 1900 | 40.0 | 1.40 | 7.78 | 7.78 | 7.78 | 0.34 | 0.84 | ± 12.0 % |
| 2000 | 40.0 | 1.40 | 7.79 | 7.79 | 7.79 | 0.27 | 0.84 | ± 12.0 % |
| 2300 | 39.5 | 1.67 | 7.50 | 7.50 | 7.50 | 0.32 | 0.80 | ± 12.0 % |
| 2450 | 39.2 | 1.80 | 7.16 | 7.16 | 7.16 | 0.38 | 0.84 | ± 12.0 % |
| 2600 | 39.0 | 1.96 | 6.95 | 6.95 | 6.95 | 0.38 | 0.82 | ± 12.0 % |
| 3500 | 37.9 | 2.91 | 6.64 | 6.64 | 6.64 | 0.30 | 1.20 | ± 13.1 % |
| 5200 | 36.0 | 4.66 | 4.86 | 4.86 | 4.86 | 0.35 | 1.80 | ± 13.1 % |
| 5300 | 35.9 | 4.76 | 4.65 | 4.65 | 4.65 | 0.35 | 1.80 | ± 13.1 % |
| 5600 | 35.5 | 5.07 | 4.49 | 4.49 | 4.49 | 0.40 | 1.80 | ± 13.1 % |
| 5800 | 35.3 | 5.27 | 4.50 | 4.50 | 4.50 | 0.40 | 1.80 | ± 13.1 % |

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.



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# DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

## Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) [C] | Relative Permittivity [F] | Conductivity (S/m) [F] | ConvF X | ConvF Y | ConvF Z | Alpha [G] | Depth [G] (mm) | Unc (k=2) |
|---|---|---|---|---|---|---|---|---|
| 750 | 55.5 | 0.96 | 9.39 | 9.39 | 9.39 | 0.34 | 1.00 | ± 12.0 % |
| 835 | 55.2 | 0.97 | 9.18 | 9.18 | 9.18 | 0.39 | 0.85 | ± 12.0 % |
| 900 | 55.0 | 1.05 | 9.13 | 9.13 | 9.13 | 0.32 | 0.96 | ± 12.0 % |
| 1750 | 53.4 | 1.49 | 7.65 | 7.65 | 7.65 | 0.32 | 0.85 | ± 12.0 % |
| 1900 | 53.3 | 1.52 | 7.35 | 7.35 | 7.35 | 0.38 | 0.81 | ± 12.0 % |
| 2000 | 53.3 | 1.52 | 7.51 | 7.51 | 7.51 | 0.36 | 0.80 | ± 12.0 % |
| 2300 | 52.9 | 1.81 | 7.29 | 7.29 | 7.29 | 0.36 | 0.88 | ± 12.0 % |
| 2450 | 52.7 | 1.95 | 7.26 | 7.26 | 7.26 | 0.34 | 0.88 | ± 12.0 % |
| 2600 | 52.5 | 2.16 | 6.95 | 6.95 | 6.95 | 0.25 | 0.99 | ± 12.0 % |
| 3500 | 51.3 | 3.31 | 6.60 | 6.60 | 6.60 | 0.30 | 1.20 | ± 13.1 % |
| 5200 | 49.0 | 5.30 | 4.56 | 4.56 | 4.56 | 0.35 | 1.90 | ± 13.1 % |
| 5300 | 48.9 | 5.42 | 4.39 | 4.39 | 4.39 | 0.35 | 1.90 | ± 13.1 % |
| 5600 | 48.5 | 5.77 | 3.92 | 3.92 | 3.92 | 0.40 | 1.90 | ± 13.1 % |
| 5800 | 48.2 | 6.00 | 4.17 | 4.17 | 4.17 | 0.40 | 1.90 | ± 13.1 % |

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2); else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

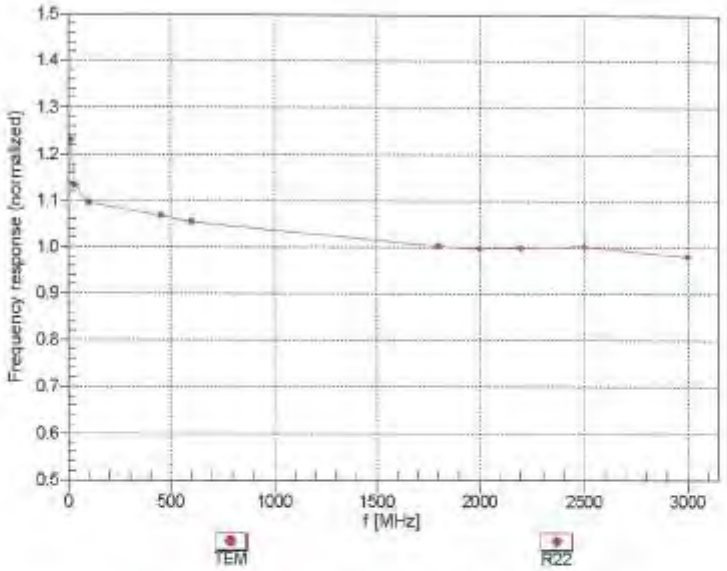
[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.



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EX3DV4- SN:3831 January 23, 2018

## Frequency Response of E-Field
(TEM-Cell:ifi110 EXX, Waveguide: R22)




Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

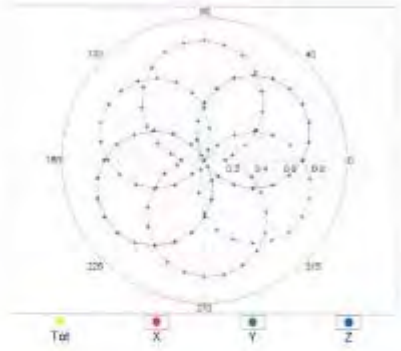


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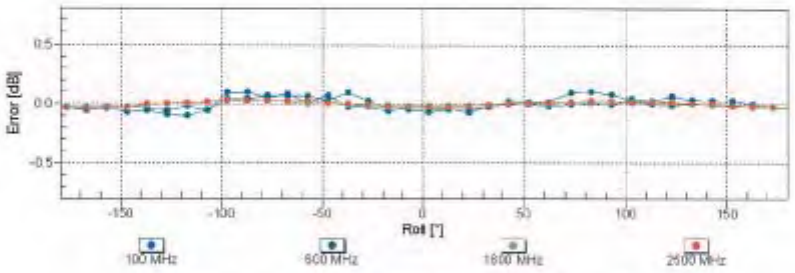
## Receiving Pattern (ϕ), ϑ = 0°

f=600 MHz,TEM




f=1800 MHz,R22



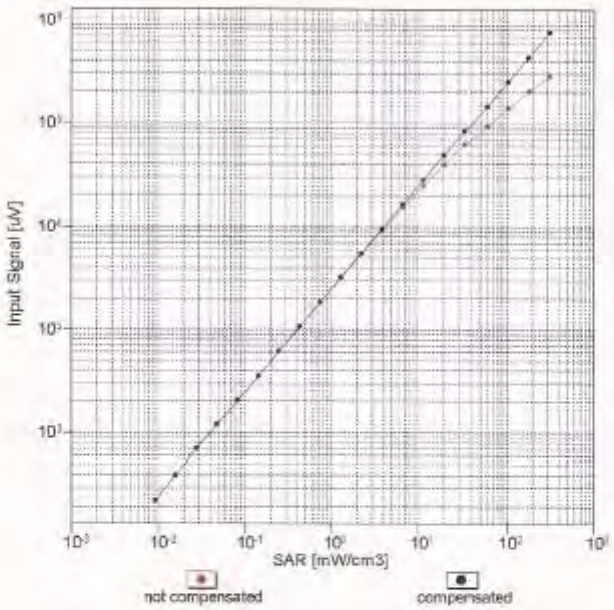



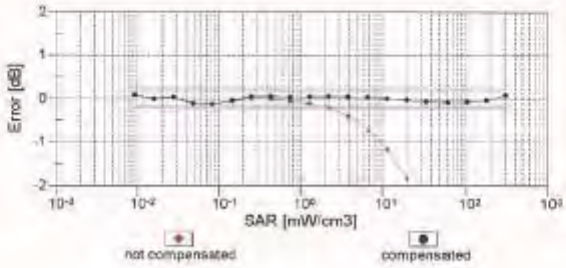

Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)



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## Dynamic Range f(SAR$_{head}$)
(TEM cell , $f_{eval}$= 1900 MHz)




Uncertainty of Linearity Assessment: ± 0.6% (k=2)

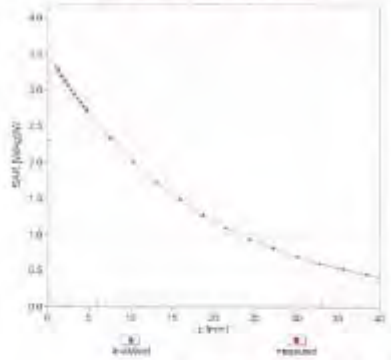


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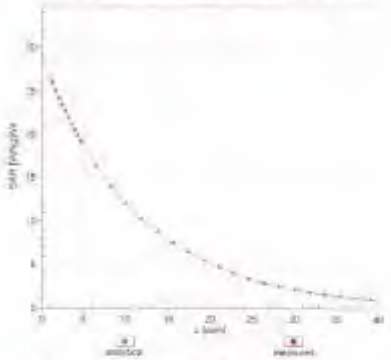
EX3DV4- SN:3831 January 23, 2018

## Conversion Factor Assessment

f = 835 MHz,WGLS R9 (H_convF)

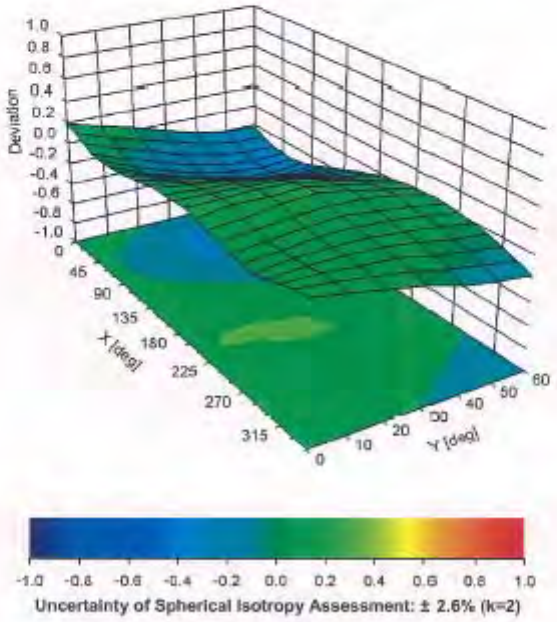


f = 1900 MHz,WGLS R22 (H_convF)



## Deviation from Isotropy in Liquid

Error (ϕ, ϑ), f = 900 MHz







Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)



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# DASY/EASY - Parameters of Probe: EX3DV4 - SN:3831

## Other Probe Parameters

| | |
|---|---|
| Sensor Arrangement | Triangular |
| Connector Angle (°) | -17.1 |
| Mechanical Surface Detection Mode | enabled |
| Optical Surface Detection Mode | disabled |
| Probe Overall Length | 337 mm |
| Probe Body Diameter | 10 mm |
| Tip Length | 9 mm |
| Tip Diameter | 2.5 mm |
| Probe Tip to Sensor X Calibration Point | 1 mm |
| Probe Tip to Sensor Y Calibration Point | 1 mm |
| Probe Tip to Sensor Z Calibration Point | 1 mm |
| Recommended Measurement Distance from Surface | 1.4 mm |



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# 8. Uncertainty Budget

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

| A | c | D | e | | f | g | h=c * f / e | i=c * g / e | k |
|---|---|---|---|---|---|---|---|---|---|
| Source of Uncertainty | Tolerance/ Uncertainty | Probability Distributio | Div | Div Value | ci (1g) | ci (10g) | Standard uncertainty | Standard uncertainty | vi, or Veff |
| | | | | | | | | | |
| **Measurement system** | | | | | | | | | |
| Probe calibration | 6.55% | N | 1 | 1 | 1 | 1 | 6.55% | 6.55% | ∞ |
| ***Isotropy , Axial*** | 3.50% | R | √3 | 1.732 | 1 | 1 | 2.02% | 2.02% | ∞ |
| ***Isotropy, Hemispherical*** | 9.60% | R | √3 | 1.732 | 1 | 1 | 5.54% | 5.54% | ∞ |
| Modulation Response | 2.40% | R | √3 | 1.732 | 1 | 1 | 1.40% | 1.40% | ∞ |
| Boundary Effect | 1.00% | R | √3 | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| Linearity | 4.70% | R | √3 | 1.732 | 1 | 1 | 2.71% | 2.71% | ∞ |
| Detection Limits | 1.00% | R | √3 | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| Readout Electronics | 0.30% | N | 1 | 1 | 1 | 1 | 0.30% | 0.30% | ∞ |
| Response time | 0.80% | R | √3 | 1.732 | 1 | 1 | 0.46% | 0.46% | ∞ |
| Integration Time | 2.60% | R | √3 | 1.732 | 1 | 1 | 1.50% | 1.50% | ∞ |
| ***Measurement drift (class A evaluation)*** | 1.75% | R | √3 | 1.732 | 1 | 1 | 1.01% | 1.01% | ∞ |
| RF ambient condition - noise | 3.00% | R | √3 | 1.732 | 1 | 1 | 1.73% | 1.73% | ∞ |
| RF ambient conditions - reflections | 3.00% | R | √3 | 1.732 | 1 | 1 | 1.73% | 1.73% | ∞ |
| Probe positioner Mechanical restrictions | 0.40% | R | √3 | 1.732 | 1 | 1 | 0.23% | 0.23% | ∞ |
| Probe Positioning with respect to phantom shell | 2.90% | R | √3 | 1.732 | 1 | 1 | 1.67% | 1.67% | ∞ |
| Post-processing | 1.00% | R | √3 | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| Max SAR Eval | 1.00% | R | √3 | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| | | | | | | | | | |
| **Test Sample related** | | | | | | | | | |
| Test sample positioning | 2.90% | N | 1 | 1 | 1 | 1 | 2.90% | 2.90% | M-1 |
| Device Holder Uncertainty | 3.60% | N | 1 | 1 | 1 | 1 | 3.60% | 3.60% | M-1 |
| Drift of output power | 5.00% | R | √3 | 1.732 | 1 | 1 | 2.89% | 2.89% | ∞ |
| | | | | | | | | | |
| **Phantom and Setup** | | | | | | | | | |
| Phantom Uncertainty | 4.00% | R | √3 | 1.732 | 1 | 1 | 2.31% | 2.31% | ∞ |
| Liquid permittivity (mea.) | 1.32% | N | 1 | 1 | 0.64 | 0.43 | 0.84% | 0.57% | M |
| Liquid Conductivity (mea.) | 1.01% | N | 1 | 1 | 0.6 | 0.49 | 0.61% | 0.49% | M |
| Combined standard uncertainty | | RSS | | | | | 11.76% | 11.73% | |
| Expant uncertainty (95% confidence interval), K=2 | | | | | | | 23.52% | 23.46% | |

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Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

| A | c | D | e | | f | g | h=c * f / e | i=c * g / e | k |
|---|---|---|---|---|---|---|---|---|---|
| Source of Uncertainty | Tolerance/ Uncertainty | Probability Distributio | Div | Div Value | ci (1g) | ci (10g) | Standard uncertainty | Standard uncertainty | vi, or Veff |
| | | | | | | | | | |
| **Measurement system** | | | | | | | | | |
| Probe calibration | 6.00% | N | 1 | 1 | 1 | 1 | 6.00% | 6.00% | ∞ |
| ***Isotropy , Axial*** | 3.50% | R | √3 | 1.732 | 1 | 1 | 2.02% | 2.02% | ∞ |
| ***Isotropy, Hemispherical*** | 9.60% | R | √3 | 1.732 | 1 | 1 | 5.54% | 5.54% | ∞ |
| Modulation Response | 2.40% | R | √3 | 1.732 | 1 | 1 | 1.40% | 1.40% | ∞ |
| Boundary Effect | 1.00% | R | √3 | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| Linearity | 4.70% | R | √3 | 1.732 | 1 | 1 | 2.71% | 2.71% | ∞ |
| Detection Limits | 1.00% | R | √3 | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| Readout Electronics | 0.30% | N | 1 | 1 | 1 | 1 | 0.30% | 0.30% | ∞ |
| Response time | 0.80% | R | √3 | 1.732 | 1 | 1 | 0.46% | 0.46% | ∞ |
| Integration Time | 2.60% | R | √3 | 1.732 | 1 | 1 | 1.50% | 1.50% | ∞ |
| ***Measurement drift (class A evaluation)*** | 1.75% | R | √3 | 1.732 | 1 | 1 | 1.01% | 1.01% | ∞ |
| RF ambient condition - noise | 3.00% | R | √3 | 1.732 | 1 | 1 | 1.73% | 1.73% | ∞ |
| RF ambient conditions - reflections | 3.00% | R | √3 | 1.732 | 1 | 1 | 1.73% | 1.73% | ∞ |
| Probe positioner Mechanical restrictions | 0.40% | R | √3 | 1.732 | 1 | 1 | 0.23% | 0.23% | ∞ |
| Probe Positioning with respect to phantom shell | 2.90% | R | √3 | 1.732 | 1 | 1 | 1.67% | 1.67% | ∞ |
| Post-processing | 1.00% | R | √3 | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| Max SAR Eval | 1.00% | R | √3 | 1.732 | 1 | 1 | 0.58% | 0.58% | ∞ |
| | | | | | | | | | |
| **Test Sample related** | | | | | | | | | |
| Test sample positioning | 2.90% | N | 1 | 1 | 1 | 1 | 2.90% | 2.90% | M-1 |
| Device Holder Uncertainty | 3.60% | N | 1 | 1 | 1 | 1 | 3.60% | 3.60% | M-1 |
| Drift of output power | 5.00% | R | √3 | 1.732 | 1 | 1 | 2.89% | 2.89% | ∞ |
| | | | | | | | | | |
| **Phantom and Setup** | | | | | | | | | |
| Phantom Uncertainty | 4.00% | R | √3 | 1.732 | 1 | 1 | 2.31% | 2.31% | ∞ |
| Liquid permittivity (mea.) | 4.55% | N | 1 | 1 | 0.64 | 0.43 | 2.91% | 1.96% | M |
| Liquid Conductivity (mea.) | 3.98% | N | 1 | 1 | 0.6 | 0.49 | 2.39% | 1.95% | M |
| Combined standard uncertainty | | RSS | | | | | 12.02% | 11.74% | |
| Expant uncertainty (95% confidence interval), K=2 | | | | | | | 24.05% | 23.48% | |

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# 9.Phantom Description

Schmid & Partner Engineering AG
s p e a g
Zeughausstrasse 43, 8004 Zurich, Switzerland
Phone +41 44 245 9700, Fax +41 44 245 9779
info@speag.com, http://www.speag.com

**Certificate of Conformity / First Article Inspection**

| | |
|---|---|
| Item | Oval Flat Phantom ELI 5.0 |
| Type No | QD OVA 002 A |
| Series No | 1108 and higher |
| Manufacturer | Untersee Composites<br>Knebelstrasse 8, CH-8268 Mannenbach, Switzerland |

**Tests**
Complete tests were made on the prototype units QD OVA 001 A, pre-series units QD OVA 001 B as well as on some series units QD OVA 001 B. Some tests are made on all series units QD OVA 002 A.

| Test | Requirement | Details | Units tested |
|---|---|---|---|
| Shape | Internal dimensions, depth and sagging are compatible with standards | Bottom elliptical 600 x 400 mm, Depth 190 mm, dimension compliant with [1] for f > 375 MHz | Prototypes |
| Material thickness | Bottom:<br>2.0mm +/- 0.2mm | dimension compliant with [3] for f > 800 MHz | all |
| Material parameters | rel. permittivity 2 – 5,<br>loss tangent ≤ 0.05, at f ≤ 6 GHz | rel. permittivity 3.5 +/- 0.5<br>loss tangent ≤ 0.05 | Material samples |
| Material resistivity | Compatibility with tissue simulating liquids . | Compatible with SPEAG liquids. ** | Phantoms, Material sample |
| Sagging | Sagging of the flat section in tolerance when filled with tissue simulating liquid. | within tolerance for filling height up to 155 mm | Prototypes, samples |

** Note: Compatibility restrictions apply certain liquid components mentioned in the standard, containing e.g. DGBE, DGMHE or Triton X-100. Observe technical note on material compatibility.

**Standards**
[1] OET Bulletin 65, Supplement C, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", Edition 01-01
[2] IEEE 1528-2003, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques, December 2003
[3] IEC 62209–1 ed1.0, "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", 2005-02-18
[4] IEC 62209–2 ed1.0, "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", 2010-03-30

**Conformity**
Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of **body-worn** SAR measurements and system performance checks as specified in [1 – 4] and further standards.

**Date** 25.7.2011

**Signature / Stamp**

s p e a g
Schmid & Partner Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland
Phone +41 44 245 9700, Fax +41 44 245 9779
info@speag.com, http://www.speag.com

Doc No 881 – QD OVA 002 A - A Page 1 (1)

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# 10. System Validation from Original Equipment Supplier



Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client Auden

Certificate No: D750V3-1078_Jun18

## CALIBRATION CERTIFICATE

Object D750V3 - SN:1078

Calibration procedure(s) QA CAL-05.v10
Calibration procedure for dipole validation kits above 700 MHz

Calibration date: June 20, 2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date (Certificate No.) | Scheduled Calibration |
|---|---|---|---|
| Power meter NRP | SN: 104778 | 04-Apr-18 (No. 217-02672/02673) | Apr-19 |
| Power sensor NRP-Z91 | SN: 103244 | 04-Apr-18 (No. 217-02672) | Apr-19 |
| Power sensor NRP-Z91 | SN: 103245 | 04-Apr-18 (No. 217-02673) | Apr-19 |
| Reference 20 dB Attenuator | SN: 5058 (20k) | 04-Apr-18 (No. 217-02682) | Apr-19 |
| Type-N mismatch combination | SN: 5047.2 / 06327 | 04-Apr-18 (No. 217-02683) | Apr-19 |
| Reference Probe EX3DV4 | SN: 7349 | 30-Dec-17 (No. EX3-7349_Dec17) | Dec-18 |
| DAE4 | SN: 601 | 26-Oct-17 (No. DAE4-601_Oct17) | Oct-18 |

| Secondary Standards | ID # | Check Date (in house) | Scheduled Check |
|---|---|---|---|
| Power meter EPM-442A | SN: GB37480704 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A | SN: US37292783 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A | SN: MY41092317 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| RF generator R&S SMT-06 | SN: 100972 | 15-Jun-15 (in house check Oct-16) | In house check: Oct-18 |
| Network Analyzer HP 8753E | SN: US37390585 | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |

| | Name | Function | Signature |
|---|---|---|---|
| Calibrated by: | Claudio Leubler | Laboratory Technician | |
| Approved by: | Katja Pokovic | Technical Manager | |

Issued: June 21, 2018

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: D750V3-1078_Jun18 Page 1 of 8

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The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

**Glossary:**

| | |
|---|---|
| TSL | tissue simulating liquid |
| ConvF | sensitivity in TSL / NORM x,y,z |
| N/A | not applicable or not measured |

**Calibration is Performed According to the Following Standards:**

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Additional Documentation:**

e) DASY4/5 System Handbook

**Methods Applied and Interpretation of Parameters:**

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.



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## Measurement Conditions

DASY system configuration, as far as not given on page 1.

| | | |
|---|---|---|
| **DASY Version** | DASY5 | V52.10.1 |
| **Extrapolation** | Advanced Extrapolation | |
| **Phantom** | Modular Flat Phantom | |
| **Distance Dipole Center - TSL** | 15 mm | with Spacer |
| **Zoom Scan Resolution** | dx, dy, dz = 5 mm | |
| **Frequency** | 750 MHz ± 1 MHz | |

## Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| **Nominal Head TSL parameters** | 22.0 °C | 41.9 | 0.89 mho/m |
| **Measured Head TSL parameters** | (22.0 ± 0.2) °C | 40.9 ± 6 % | 0.90 mho/m ± 6 % |
| **Head TSL temperature change during test** | < 0.5 °C | ---- | ---- |

## SAR result with Head TSL

| **SAR averaged over 1 cm³ (1 g) of Head TSL** | Condition | |
|---|---|---|
| SAR measured | 250 mW input power | 2.09 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **8.25 W/kg ± 17.0 % (k=2)** |

| **SAR averaged over 10 cm³ (10 g) of Head TSL** | condition | |
|---|---|---|
| SAR measured | 250 mW input power | 1.36 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **5.38 W/kg ± 16.5 % (k=2)** |

## Body TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| **Nominal Body TSL parameters** | 22.0 °C | 55.5 | 0.96 mho/m |
| **Measured Body TSL parameters** | (22.0 ± 0.2) °C | 55.2 ± 6 % | 0.96 mho/m ± 6 % |
| **Body TSL temperature change during test** | < 0.5 °C | ---- | ---- |

## SAR result with Body TSL

| **SAR averaged over 1 cm³ (1 g) of Body TSL** | Condition | |
|---|---|---|
| SAR measured | 250 mW input power | 2.16 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **8.63 W/kg ± 17.0 % (k=2)** |

| **SAR averaged over 10 cm³ (10 g) of Body TSL** | condition | |
|---|---|---|
| SAR measured | 250 mW input power | 1.43 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **5.72 W/kg ± 16.5 % (k=2)** |



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## Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL

| | |
|---|---|
| Impedance, transformed to feed point | 55.8 Ω + 0.8 jΩ |
| Return Loss | - 25.3 dB |

### Antenna Parameters with Body TSL

| | |
|---|---|
| Impedance, transformed to feed point | 50.5 Ω - 3.3 jΩ |
| Return Loss | - 29.5 dB |

### General Antenna Parameters and Design

| | |
|---|---|
| Electrical Delay (one direction) | 1.038 ns |

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

| | |
|---|---|
| Manufactured by | SPEAG |
| Manufactured on | November 15, 2012 |



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t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com
Member of SGS Group

**DASY5 Validation Report for Head TSL**

Date: 14.06.2018

Test Laboratory: SPEAG, Zurich, Switzerland

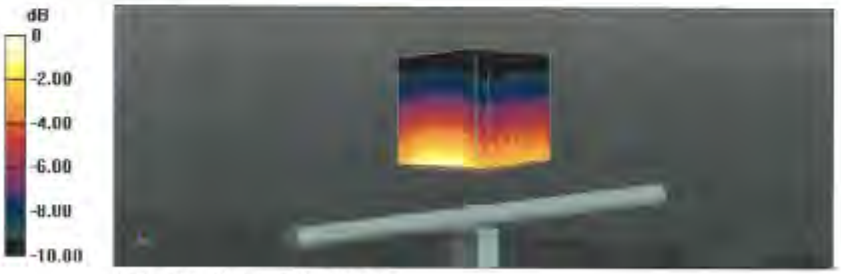
**DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1078**

Communication System: UID 0 - CW; Frequency: 750 MHz
Medium parameters used: f = 750 MHz; $\sigma$ = 0.9 S/m; $\varepsilon_r$ = 40.9; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(10.22, 10.22, 10.22) @ 750 MHz; Calibrated: 30.12.2017
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 4.9 (front); Type: QD 000L P49 AA; Serial: 1001
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 59.18 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.13 W/kg
**SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.36 W/kg**
Maximum value of SAR (measured) = 2.79 W/kg

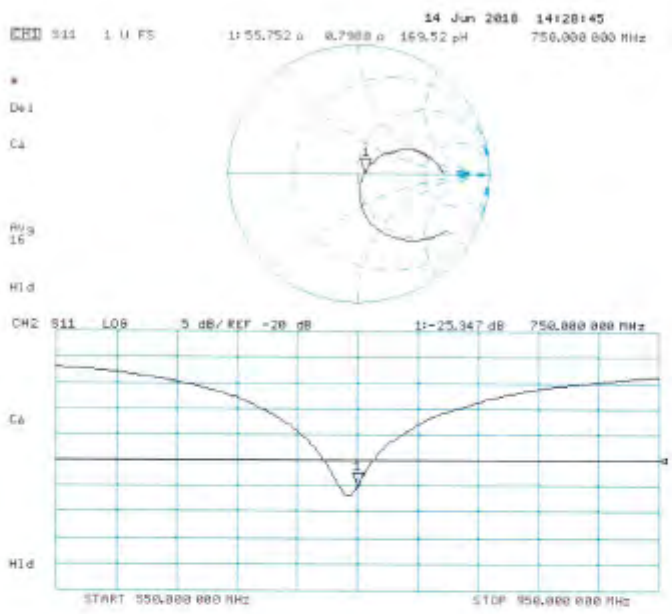



0 dB = 2.79 W/kg = 4.46 dBW/kg



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## Impedance Measurement Plot for Head TSL






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**DASY5 Validation Report for Body TSL**

Date: 20.06.2018

Test Laboratory: SPEAG, Zurich, Switzerland

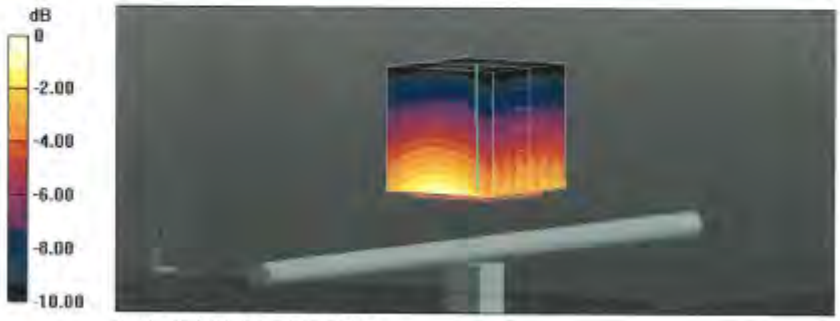
**DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1078**

Communication System: UID 0 - CW; Frequency: 750 MHz
Medium parameters used: f = 750 MHz; $\sigma$ = 0.96 S/m; $\varepsilon_r$ = 55.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(10.19, 10.19, 10.19) @ 750 MHz; Calibrated: 30.12.2017
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 4.9 (Back); Type: QD 00R P49 AA; Serial: 1005
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 57.54 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.18 W/kg
**SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.43 W/kg**
Maximum value of SAR (measured) = 2.85 W/kg

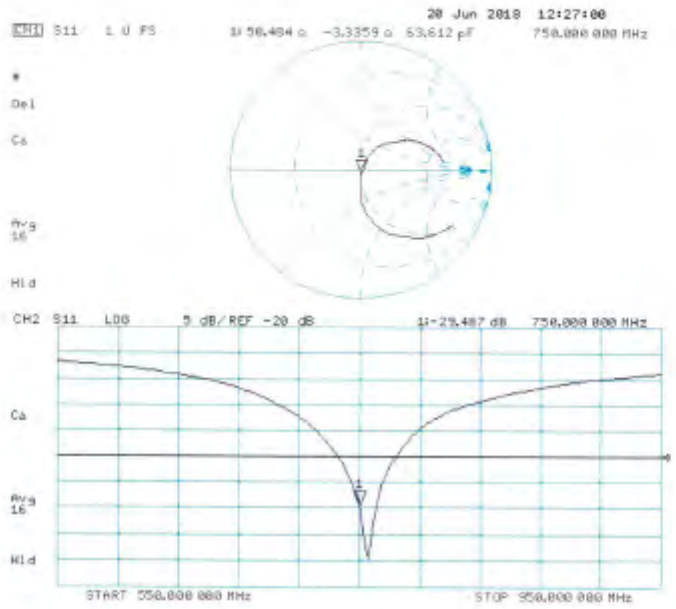



0 dB = 2.85 W/kg = 4.55 dBW/kg



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**Impedance Measurement Plot for Body TSL**






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Accredited by the Swiss Accreditation Service (SAS)
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Accreditation No.: SCS 0108

Client Auden

Certificate No: D835V2-4d120_Jun18

# CALIBRATION CERTIFICATE

Object D835V2 - SN:4d120

Calibration procedure(s) QA CAL-05.v10
Calibration procedure for dipole validation kits above 700 MHz

Calibration date: June 20, 2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date (Certificate No.) | Scheduled Calibration |
|---|---|---|---|
| Power meter NRP | SN: 104778 | 04-Apr-18 (No. 217-02672/02673) | Apr-19 |
| Power sensor NRP-Z91 | SN: 103244 | 04-Apr-18 (No. 217-02672) | Apr-19 |
| Power sensor NRP-Z91 | SN: 103245 | 04-Apr-18 (No. 217-02673) | Apr-19 |
| Reference 20 dB Attenuator | SN: 5058 (20k) | 04-Apr-18 (No. 217-02682) | Apr-19 |
| Type-N mismatch combination | SN: 5047.2 / 06327 | 04-Apr-18 (No. 217-02683) | Apr-19 |
| Reference Probe EX3DV4 | SN: 7349 | 30-Dec-17 (No. EX3-7349_Dec17) | Dec-18 |
| DAE4 | SN: 601 | 26-Oct-17 (No. DAE4-601_Oct17) | Oct-18 |

| Secondary Standards | ID # | Check Date (in house) | Scheduled Check |
|---|---|---|---|
| Power meter EPM-442A | SN: GB37480704 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A | SN: US37292783 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A | SN: MY41092317 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| RF generator R&S SMY-01 | SN: 100972 | 15-Jun-15 (in house check Oct-16) | In house check: Oct-18 |
| Network Analyzer HP 8753E | SN: US37390585 | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |

| | Name | Function | Signature |
|---|---|---|---|
| Calibrated by: | Claudio Leubler | Laboratory Technician | |
| Approved by: | Katja Pokovic | Technical Manager | |

Issued: June 21, 2018

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Certificate No: D835V2-4d120_Jun18 Page 1 of 8

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Accreditation No.: SCS 0108

**Glossary:**

| | |
|---|---|
| TSL | tissue simulating liquid |
| ConvF | sensitivity in TSL / NORM x,y,z |
| N/A | not applicable or not measured |

**Calibration is Performed According to the Following Standards:**

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Additional Documentation:**

e) DASY4/5 System Handbook

**Methods Applied and Interpretation of Parameters:**

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.



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## Measurement Conditions

DASY system configuration, as far as not given on page 1.

| | | |
|---|---|---|
| **DASY Version** | DASY5 | V52.10.1 |
| **Extrapolation** | Advanced Extrapolation | |
| **Phantom** | Modular Flat Phantom | |
| **Distance Dipole Center - TSL** | 15 mm | with Spacer |
| **Zoom Scan Resolution** | dx, dy, dz = 5 mm | |
| **Frequency** | 835 MHz ± 1 MHz | |

## Head TSL parameters

The following parameters and calculations were applied.

| | **Temperature** | **Permittivity** | **Conductivity** |
|---|---|---|---|
| **Nominal Head TSL parameters** | 22.0 °C | 41.5 | 0.90 mho/m |
| **Measured Head TSL parameters** | (22.0 ± 0.2) °C | 40.7 ± 6 % | 0.93 mho/m ± 6 % |
| **Head TSL temperature change during test** | < 0.5 °C | ---- | ---- |

## SAR result with Head TSL

| **SAR averaged over 1 cm³ (1 g) of Head TSL** | Condition | |
|---|---|---|
| SAR measured | 250 mW input power | 2.41 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **9.37 W/kg ± 17.0 % (k=2)** |

| **SAR averaged over 10 cm³ (10 g) of Head TSL** | condition | |
|---|---|---|
| SAR measured | 250 mW input power | 1.55 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **6.06 W/kg ± 16.5 % (k=2)** |

## Body TSL parameters

The following parameters and calculations were applied.

| | **Temperature** | **Permittivity** | **Conductivity** |
|---|---|---|---|
| **Nominal Body TSL parameters** | 22.0 °C | 55.2 | 0.97 mho/m |
| **Measured Body TSL parameters** | (22.0 ± 0.2) °C | 55.0 ± 6 % | 0.99 mho/m ± 6 % |
| **Body TSL temperature change during test** | < 0.5 °C | ---- | ---- |

## SAR result with Body TSL

| **SAR averaged over 1 cm³ (1 g) of Body TSL** | Condition | |
|---|---|---|
| SAR measured | 250 mW input power | 2.46 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **9.68 W/kg ± 17.0 % (k=2)** |

| **SAR averaged over 10 cm³ (10 g) of Body TSL** | condition | |
|---|---|---|
| SAR measured | 250 mW input power | 1.61 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **6.36 W/kg ± 16.5 % (k=2)** |



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## Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL

| | |
|---|---|
| Impedance, transformed to feed point | 51.5 Ω - 3.1 jΩ |
| Return Loss | - 29.3 dB |

### Antenna Parameters with Body TSL

| | |
|---|---|
| Impedance, transformed to feed point | 48.3 Ω - 5.8 jΩ |
| Return Loss | - 24.3 dB |

### General Antenna Parameters and Design

| | |
|---|---|
| Electrical Delay (one direction) | 1.398 ns |

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

| | |
|---|---|
| Manufactured by | SPEAG |
| Manufactured on | June 29, 2010 |



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**DASY5 Validation Report for Head TSL**

Date: 20.06.2018

Test Laboratory: SPEAG, Zurich, Switzerland

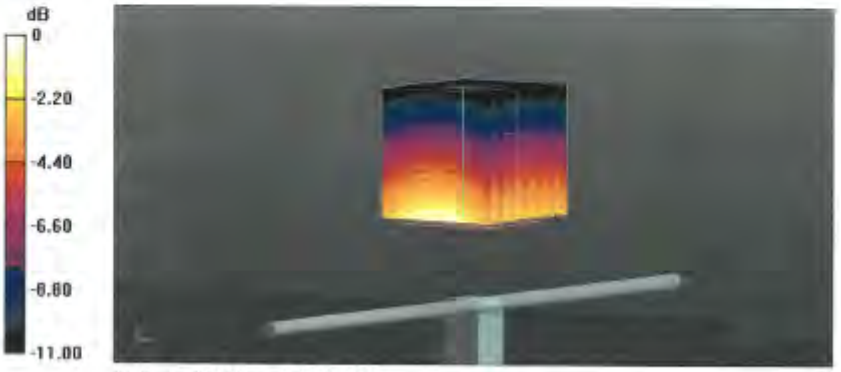
**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d120**

Communication System: UID 0 - CW; Frequency: 835 MHz
Medium parameters used: f = 835 MHz; $\sigma$ = 0.93 S/m; $\varepsilon_r$ = 40.7; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(9.9, 9.9, 9.9) @ 835 MHz; Calibrated: 30.12.2017
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 4.9 (front); Type: QD 000L P49 AA; Serial: 1001
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 62.60 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 3.71 W/kg
**SAR(1 g) = 2.41 W/kg; SAR(10 g) = 1.55 W/kg**
Maximum value of SAR (measured) = 3.27 W/kg

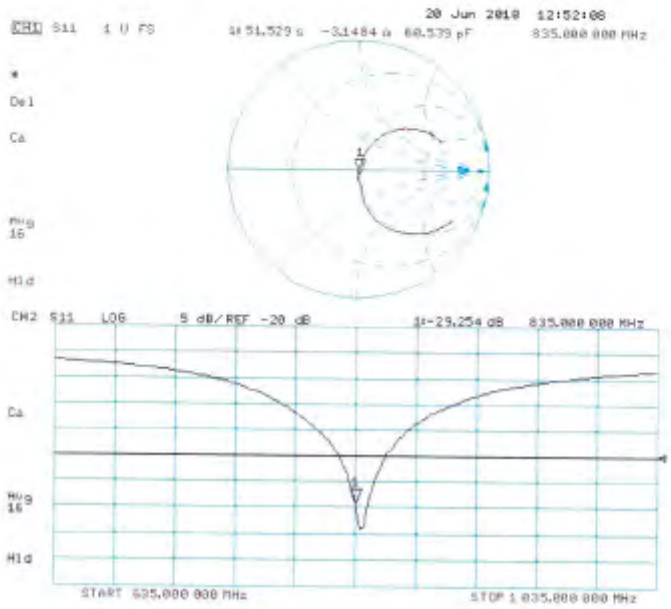



0 dB = 3.27 W/kg = 5.15 dBW/kg



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## Impedance Measurement Plot for Head TSL






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**DASY5 Validation Report for Body TSL**

Date: 20.06.2018

Test Laboratory: SPEAG, Zurich, Switzerland

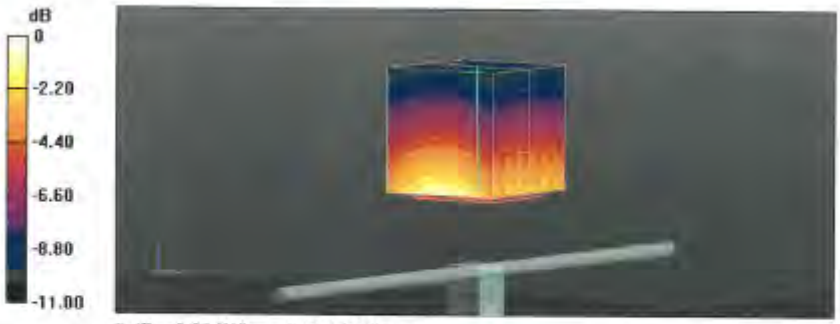
**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d120**

Communication System: UID 0 - CW; Frequency: 835 MHz
Medium parameters used: f = 835 MHz; $\sigma$ = 0.99 S/m; $\varepsilon_r$ = 55; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(10.05, 10.05, 10.05) @ 835 MHz; Calibrated: 30.12.2017
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 4.9 (Back); Type: QD 000R P49 AA; Serial: 1005
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 61.00 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 3.66 W/kg
**SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.61 W/kg**
Maximum value of SAR (measured) = 3.28 W/kg

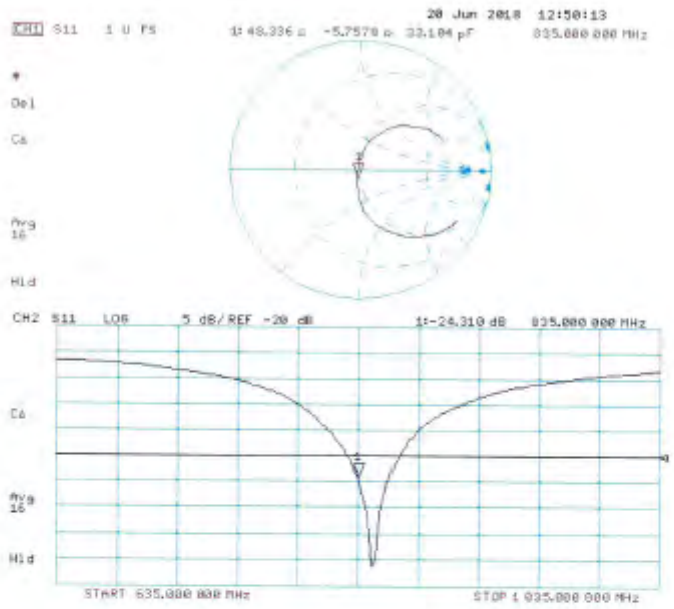



0 dB = 3.28 W/kg = 5.16 dBW/kg



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## Impedance Measurement Plot for Body TSL






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Accreditation No.: SCS 0108

Client: Auden

Certificate No: D1750V2-1023_Jun18

# CALIBRATION CERTIFICATE

Object: D1750V2 - SN:1023

Calibration procedure(s): QA CAL-05.v10
Calibration procedure for dipole validation kits above 700 MHz

Calibration date: June 11, 2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date (Certificate No.) | Scheduled Calibration |
|---|---|---|---|
| Power meter NRF | SN: 104778 | 04-Apr-18 (No. 217-02672/02673) | Apr-19 |
| Power sensor NRP-Z91 | SN: 103244 | 04-Apr-18 (No. 217-02672) | Apr-19 |
| Power sensor NRP-Z91 | SN: 103245 | 04-Apr-18 (No. 217-02673) | Apr-19 |
| Reference 20 dB Attenuator | SN: 5058 (20k) | 04-Apr-18 (No. 217-02682) | Apr-19 |
| Type-N mismatch combination | SN: 5047.2 / 06327 | 04-Apr-18 (No. 217-02683) | Apr-19 |
| Reference Probe EX3DV4 | SN: 7349 | 30-Dec-17 (No. EX3-7349_Dec17) | Dec-18 |
| DAE4 | SN: 601 | 26-Oct-17 (No. DAE4-601_Oct17) | Oct-18 |

| Secondary Standards | ID # | Check Date (in house) | Scheduled Check |
|---|---|---|---|
| Power meter EPM-442A | SN: GB37480704 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A | SN: US37292783 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A | SN: MY41092317 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| RF generator R&S SMT-06 | SN: 100972 | 15-Jun-15 (in house check Oct-16) | In house check: Oct-18 |
| Network Analyzer HP 8753E | SN: US37390585 | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |

| | Name | Function | Signature |
|---|---|---|---|
| Calibrated by: | Jelon Kastrati | Laboratory Technician | |
| Approved by: | Katja Pokovic | Technical Manager | |

Issued: June 11, 2018

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Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

**Glossary:**

| | |
|---|---|
| TSL | tissue simulating liquid |
| ConvF | sensitivity in TSL / NORM x,y,z |
| N/A | not applicable or not measured |

**Calibration is Performed According to the Following Standards:**

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Additional Documentation:**

e) DASY4/5 System Handbook

**Methods Applied and Interpretation of Parameters:**

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.



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## Measurement Conditions

DASY system configuration, as far as not given on page 1.

| | | |
|---|---|---|
| **DASY Version** | DASY5 | V52.10.1 |
| **Extrapolation** | Advanced Extrapolation | |
| **Phantom** | Modular Flat Phantom | |
| **Distance Dipole Center - TSL** | 10 mm | with Spacer |
| **Zoom Scan Resolution** | dx, dy, dz = 5 mm | |
| **Frequency** | 1750 MHz ± 1 MHz | |

## Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| **Nominal Head TSL parameters** | 22.0 °C | 40.1 | 1.37 mho/m |
| **Measured Head TSL parameters** | (22.0 ± 0.2) °C | 39.0 ± 6 % | 1.36 mho/m ± 6 % |
| **Head TSL temperature change during test** | < 0.5 °C | ---- | ---- |

## SAR result with Head TSL

| **SAR averaged over 1 cm³ (1 g) of Head TSL** | Condition | |
|---|---|---|
| SAR measured | 250 mW input power | 9.10 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **36.3 W/kg ± 17.0 % (k=2)** |

| **SAR averaged over 10 cm³ (10 g) of Head TSL** | condition | |
|---|---|---|
| SAR measured | 250 mW input power | 4.82 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **19.3 W/kg ± 16.5 % (k=2)** |

## Body TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| **Nominal Body TSL parameters** | 22.0 °C | 53.4 | 1.49 mho/m |
| **Measured Body TSL parameters** | (22.0 ± 0.2) °C | 53.6 ± 6 % | 1.47 mho/m ± 6 % |
| **Body TSL temperature change during test** | < 0.5 °C | ---- | ---- |

## SAR result with Body TSL

| **SAR averaged over 1 cm³ (1 g) of Body TSL** | Condition | |
|---|---|---|
| SAR measured | 250 mW input power | 9.12 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **36.8 W/kg ± 17.0 % (k=2)** |

| **SAR averaged over 10 cm³ (10 g) of Body TSL** | condition | |
|---|---|---|
| SAR measured | 250 mW input power | 4.90 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **19.7 W/kg ± 16.5 % (k=2)** |



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## Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL

| | |
|---|---|
| Impedance, transformed to feed point | 51.0 Ω - 0.5 jΩ |
| Return Loss | - 39.1 dB |

### Antenna Parameters with Body TSL

| | |
|---|---|
| Impedance, transformed to feed point | 46.0 Ω + 0.3 jΩ |
| Return Loss | - 27.5 dB |

### General Antenna Parameters and Design

| | |
|---|---|
| Electrical Delay (one direction) | 1.217 ns |

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

| | |
|---|---|
| Manufactured by | SPEAG |
| Manufactured on | August 20, 2009 |



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**DASY5 Validation Report for Head TSL**

Date: 11.06.2018

Test Laboratory: SPEAG, Zurich, Switzerland

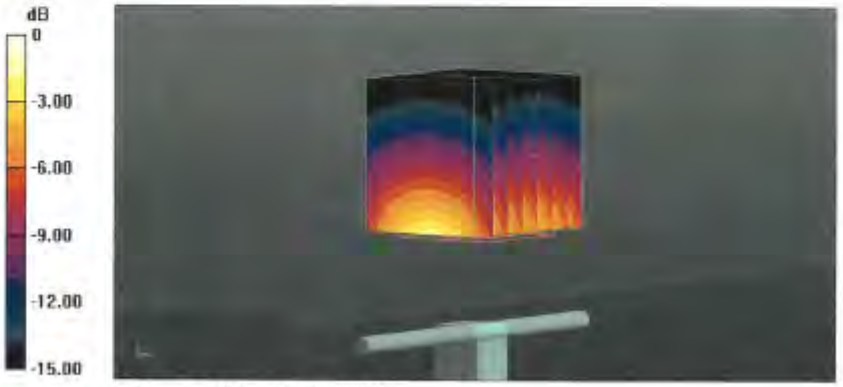
**DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN:1023**

Communication System: UID 0 - CW; Frequency: 1750 MHz
Medium parameters used: f = 1750 MHz; $\sigma$ = 1.36 S/m; $\varepsilon_r$ = 39; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(8.5, 8.5, 8.5) @ 1750 MHz; Calibrated: 30.12.2017
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 106.5 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 16.5 W/kg
**SAR(1 g) = 9.1 W/kg; SAR(10 g) = 4.82 W/kg**
Maximum value of SAR (measured) = 14.0 W/kg

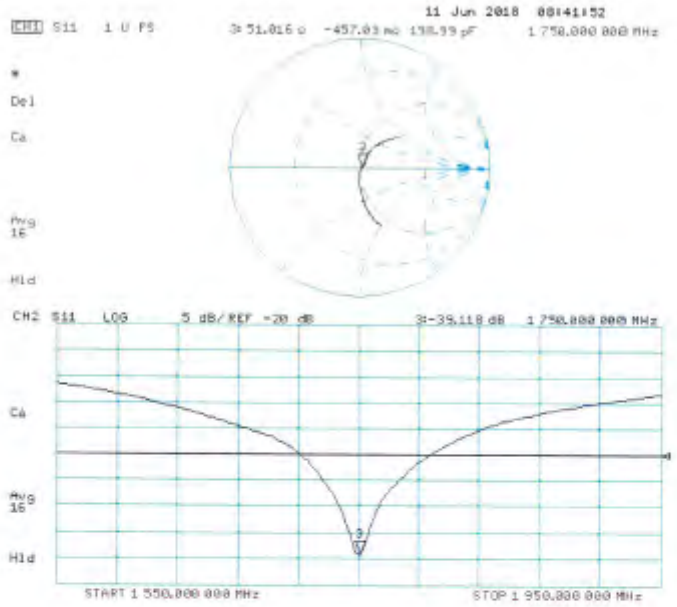



0 dB = 14.0 W/kg = 11.46 dBW/kg



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## Impedance Measurement Plot for Head TSL






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**DASY5 Validation Report for Body TSL**

Date: 11.06.2018

Test Laboratory: SPEAG, Zurich, Switzerland

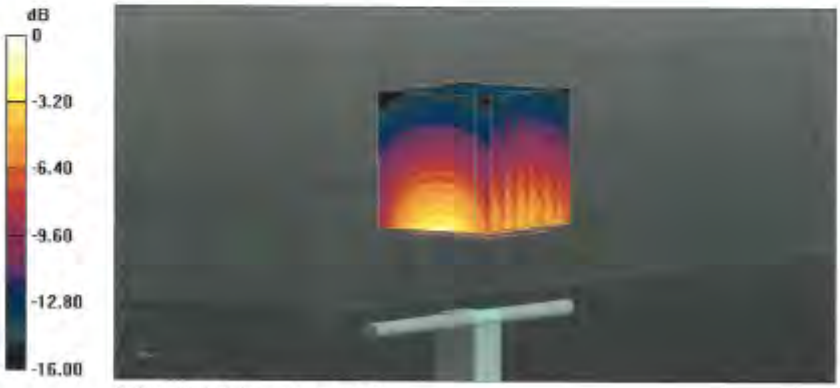
**DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN:1023**

Communication System: UID 0 - CW; Frequency: 1750 MHz
Medium parameters used: f = 1750 MHz; $\sigma$ = 1.47 S/m; $\varepsilon_r$ = 53.6; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(8.35, 8.35, 8.35) @ 1750 MHz; Calibrated: 30.12.2017
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

**Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 102.3 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 15.8 W/kg
**SAR(1 g) = 9.12 W/kg; SAR(10 g) = 4.9 W/kg**
Maximum value of SAR (measured) = 13.5 W/kg

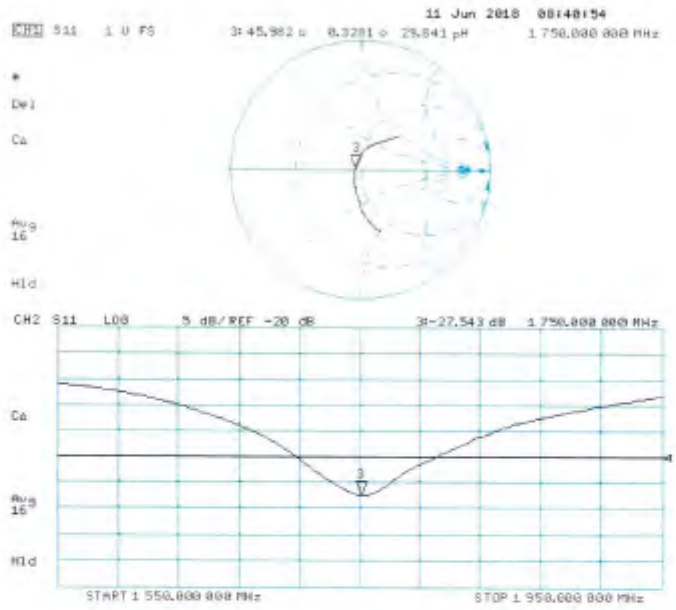



0 dB = 13.5 W/kg = 11.30 dBW/kg



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## Impedance Measurement Plot for Body TSL






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Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client SGS-TW (Auden)

Certificate No: D1900V2-5d173_Apr18

# CALIBRATION CERTIFICATE

| | |
|---|---|
| Object | D1900V2 - SN:5d173 |
| Calibration procedure(s) | QA CAL-05.v10<br>Calibration procedure for dipole validation kits above 700 MHz |
| Calibration date: | April 25, 2018 |

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

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| Network Analyzer HP 8753E | SN: US37390585 | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |

| | Name | Function | Signature |
|---|---|---|---|
| Calibrated by: | Claudio Leubler | Laboratory Technician | |
| Approved by: | Katja Pokovic | Technical Manager | |

Issued: April 25, 2018

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Accreditation No.: SCS 0108

**Glossary:**

| | |
|---|---|
| TSL | tissue simulating liquid |
| ConvF | sensitivity in TSL / NORM x,y,z |
| N/A | not applicable or not measured |

**Calibration is Performed According to the Following Standards:**

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Additional Documentation:**

e) DASY4/5 System Handbook

**Methods Applied and Interpretation of Parameters:**

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.



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## Measurement Conditions

DASY system configuration, as far as not given on page 1.

| | | |
|---|---|---|
| **DASY Version** | DASY5 | V52.10.0 |
| **Extrapolation** | Advanced Extrapolation | |
| **Phantom** | Modular Flat Phantom | |
| **Distance Dipole Center - TSL** | 10 mm | with Spacer |
| **Zoom Scan Resolution** | dx, dy, dz = 5 mm | |
| **Frequency** | 1900 MHz ± 1 MHz | |

## Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| **Nominal Head TSL parameters** | 22.0 °C | 40.0 | 1.40 mho/m |
| **Measured Head TSL parameters** | (22.0 ± 0.2) °C | 41.1 ± 6 % | 1.35 mho/m ± 6 % |
| **Head TSL temperature change during test** | < 0.5 °C | --- | --- |

## SAR result with Head TSL

| **SAR averaged over 1 cm³ (1 g) of Head TSL** | Condition | |
|---|---|---|
| SAR measured | 250 mW input power | 9.89 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **40.7 W/kg ± 17.0 % (k=2)** |

| **SAR averaged over 10 cm³ (10 g) of Head TSL** | condition | |
|---|---|---|
| SAR measured | 250 mW input power | 5.21 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **21.2 W/kg ± 16.5 % (k=2)** |

## Body TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| **Nominal Body TSL parameters** | 22.0 °C | 53.3 | 1.52 mho/m |
| **Measured Body TSL parameters** | (22.0 ± 0.2) °C | 55.3 ± 6 % | 1.47 mho/m ± 6 % |
| **Body TSL temperature change during test** | < 0.5 °C | --- | --- |

## SAR result with Body TSL

| **SAR averaged over 1 cm³ (1 g) of Body TSL** | Condition | |
|---|---|---|
| SAR measured | 250 mW input power | 9.93 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **40.9 W/kg ± 17.0 % (k=2)** |

| **SAR averaged over 10 cm³ (10 g) of Body TSL** | condition | |
|---|---|---|
| SAR measured | 250 mW input power | 5.30 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **21.6 W/kg ± 16.5 % (k=2)** |



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## Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL

| | |
|---|---|
| Impedance, transformed to feed point | 51.4 Ω + 5.1 jΩ |
| Return Loss | - 25.8 dB |

### Antenna Parameters with Body TSL

| | |
|---|---|
| Impedance, transformed to feed point | 47.3 Ω + 7.2 jΩ |
| Return Loss | - 22.1 dB |

### General Antenna Parameters and Design

| | |
|---|---|
| Electrical Delay (one direction) | 1.195 ns |

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

| | |
|---|---|
| Manufactured by | SPEAG |
| Manufactured on | June 08, 2012 |



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**DASY5 Validation Report for Head TSL**

Date: 25.04.2018

Test Laboratory: SPEAG, Zurich, Switzerland

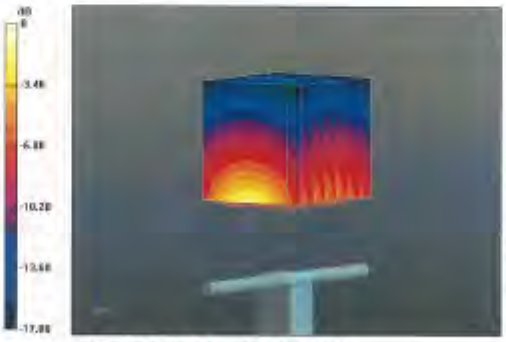
**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d173**

Communication System: UID 0 - CW; Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; $\sigma$ = 1.35 S/m; $\varepsilon_r$ = 41.1; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(8.18, 8.18, 8.18); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 110.9 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 18.3 W/kg
**SAR(1 g) = 9.89 W/kg; SAR(10 g) = 5.21 W/kg**
Maximum value of SAR (measured) = 15.2 W/kg

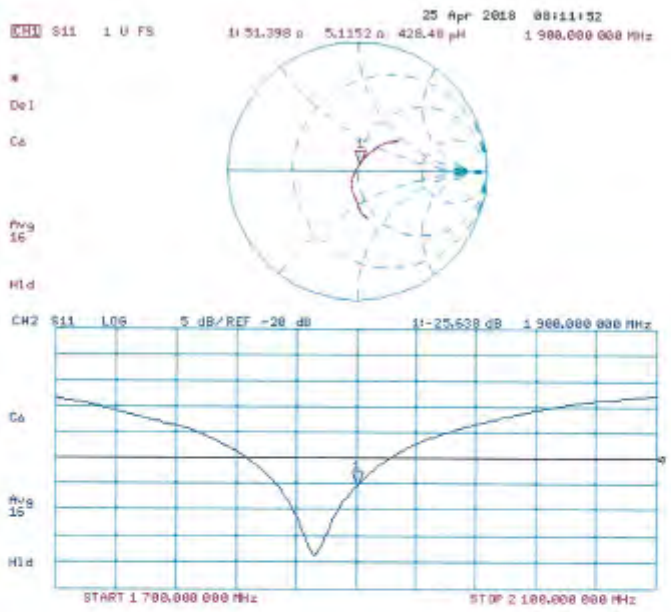


0 dB = 15.2 W/kg = 11.82 dBW/kg



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## Impedance Measurement Plot for Head TSL






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**DASY5 Validation Report for Body TSL**

Date: 25.04.2018

Test Laboratory: SPEAG, Zurich, Switzerland

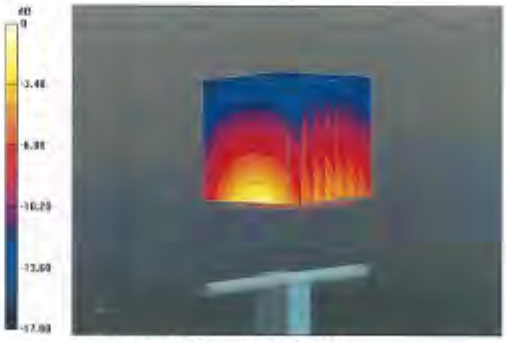
**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d173**

Communication System: UID 0 - CW; Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; $\sigma$ = 1.47 S/m; $\varepsilon_r$ = 55.3; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(8.15, 8.15, 8.15); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 104.6 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 17.7 W/kg
**SAR(1 g) = 9.93 W/kg; SAR(10 g) = 5.3 W/kg**
Maximum value of SAR (measured) = 14.7 W/kg

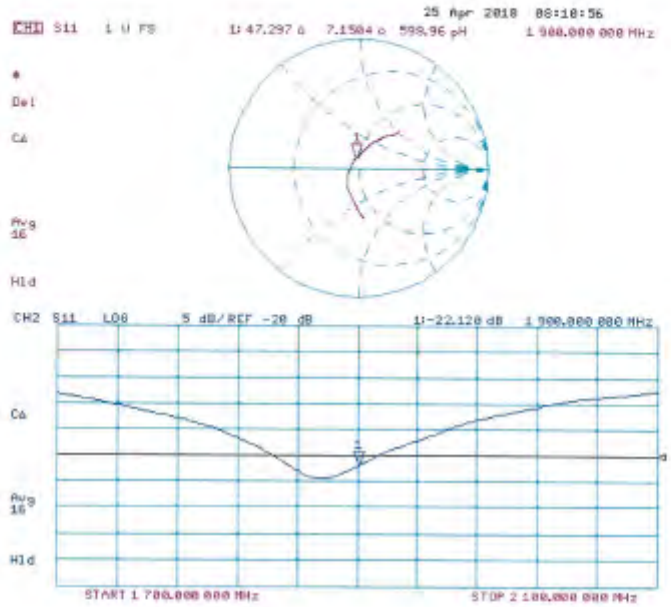



0 dB = 14.7 W/kg = 11.67 dBW/kg



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## Impedance Measurement Plot for Body TSL






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Accreditation No.: SCS 0108

Client: Sporton (Auden)

Certificate No: D2300V2-1006_Jan18

# CALIBRATION CERTIFICATE

Object: D2300V2 - SN:1006

Calibration procedure(s): QA CAL-05.v9
Calibration procedure for dipole validation kits above 700 MHz

Calibration date: January 17, 2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date (Certificate No.) | Scheduled Calibration |
|---|---|---|---|
| Power meter NRP | SN: 104778 | 04-Apr-17 (No. 217-02521/02522) | Apr-18 |
| Power sensor NRP-Z91 | SN: 103244 | 04-Apr-17 (No. 217-02521) | Apr-18 |
| Power sensor NRP-Z91 | SN: 103245 | 04-Apr-17 (No. 217-02522) | Apr-18 |
| Reference 20 dB Attenuator | SN: 5058 (20k) | 07-Apr-17 (No. 217-02528) | Apr-18 |
| Type-N mismatch combination | SN: 5047.2 / 06327 | 07-Apr-17 (No. 217-02529) | Apr-18 |
| Reference Probe EX3DV4 | SN: 7349 | 30-Dec-17 (No. EX3-7349_Dec17) | Dec-18 |
| DAE4 | SN: 601 | 26-Oct-17 (No. DAE4-601_Oct17) | Oct-18 |

| Secondary Standards | ID # | Check Date (in house) | Scheduled Check |
|---|---|---|---|
| Power meter EPM-442A | SN: GB37480704 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A | SN: US37292783 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor LP 0401A | SN: MY41092317 | 01-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| RF generator R&S SMT-06 | SN: 100972 | 15-Jun-15 (in house check Oct-16) | In house check: Oct-18 |
| Network Analyzer HP 8753E | SN: US37390585 | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |

| | Name | Function | Signature |
|---|---|---|---|
| Calibrated by: | Jeton Kastrati | Laboratory Technician | |
| Approved by: | Katja Pokovic | Technical Manager | |

Issued: January 17, 2018

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Accreditation No.: SCS 0108

**Glossary:**

| | |
|---|---|
| TSL | tissue simulating liquid |
| ConvF | sensitivity in TSL / NORM x,y,z |
| N/A | not applicable or not measured |

**Calibration is Performed According to the Following Standards:**

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Additional Documentation:**

e) DASY4/5 System Handbook

**Methods Applied and Interpretation of Parameters:**

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.



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## Measurement Conditions

DASY system configuration, as far as not given on page 1.

| | | |
|---|---|---|
| **DASY Version** | DASY5 | V52.10.0 |
| **Extrapolation** | Advanced Extrapolation | |
| **Phantom** | Modular Flat Phantom | |
| **Distance Dipole Center - TSL** | 10 mm | with Spacer |
| **Zoom Scan Resolution** | dx, dy, dz = 5 mm | |
| **Frequency** | 2300 MHz ± 1 MHz | |

## Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| **Nominal Head TSL parameters** | 22.0 °C | 39.5 | 1.67 mho/m |
| **Measured Head TSL parameters** | (22.0 ± 0.2) °C | 38.4 ± 6 % | 1.71 mho/m ± 6 % |
| **Head TSL temperature change during test** | < 0.5 °C | ---- | ---- |

## SAR result with Head TSL

| **SAR averaged over 1 cm³ (1 g) of Head TSL** | Condition | |
|---|---|---|
| SAR measured | 250 mW input power | 12.4 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **48.7 W/kg ± 17.0 % (k=2)** |

| **SAR averaged over 10 cm³ (10 g) of Head TSL** | condition | |
|---|---|---|
| SAR measured | 250 mW input power | 5.90 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **23.3 W/kg ± 16.5 % (k=2)** |

## Body TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| **Nominal Body TSL parameters** | 22.0 °C | 52.9 | 1.81 mho/m |
| **Measured Body TSL parameters** | (22.0 ± 0.2) °C | 52.0 ± 6 % | 1.85 mho/m ± 6 % |
| **Body TSL temperature change during test** | < 0.5 °C | ---- | ---- |

## SAR result with Body TSL

| **SAR averaged over 1 cm³ (1 g) of Body TSL** | Condition | |
|---|---|---|
| SAR measured | 250 mW input power | 12.0 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **47.3 W/kg ± 17.0 % (k=2)** |

| **SAR averaged over 10 cm³ (10 g) of Body TSL** | condition | |
|---|---|---|
| SAR measured | 250 mW input power | 5.74 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **22.8 W/kg ± 16.5 % (k=2)** |



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## Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL

| | |
|---|---|
| Impedance, transformed to feed point | 49.0 Ω - 4.0 jΩ |
| Return Loss | - 27.5 dB |

### Antenna Parameters with Body TSL

| | |
|---|---|
| Impedance, transformed to feed point | 44.8 Ω - 2.6 jΩ |
| Return Loss | - 24.2 dB |

### General Antenna Parameters and Design

| | |
|---|---|
| Electrical Delay (one direction) | 1.167 ns |

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

| | |
|---|---|
| Manufactured by | SPEAG |
| Manufactured on | December 23, 2006 |



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**DASY5 Validation Report for Head TSL**

Date: 17.01.2018

Test Laboratory: SPEAG, Zurich, Switzerland

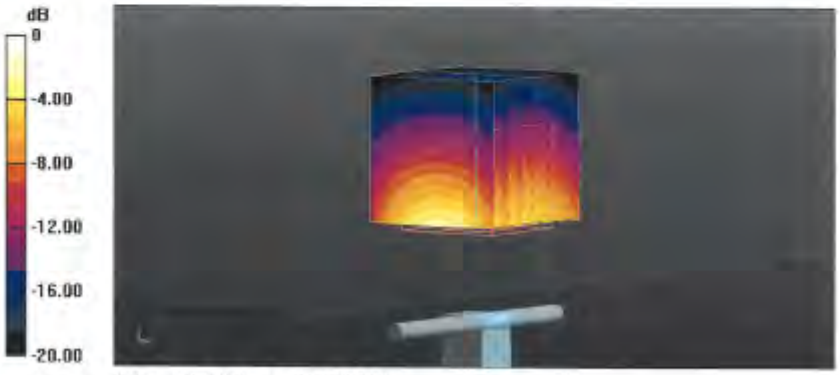
**DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN:1006**

Communication System: UID 0 - CW; Frequency: 2300 MHz
Medium parameters used: f = 2300 MHz; $\sigma$ = 1.71 S/m; $\varepsilon_r$ = 38.4; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(8.08, 8.08, 8.08); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 113.7 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 24.5 W/kg
**SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.9 W/kg**
Maximum value of SAR (measured) = 19.6 W/kg

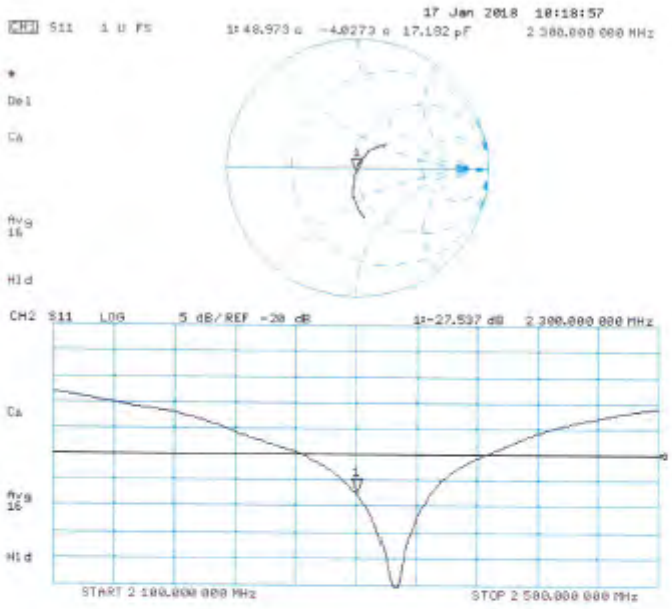



0 dB = 19.6 W/kg = 12.92 dBW/kg



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## Impedance Measurement Plot for Head TSL






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**DASY5 Validation Report for Body TSL**

Date: 17.01.2018

Test Laboratory: SPEAG, Zurich, Switzerland

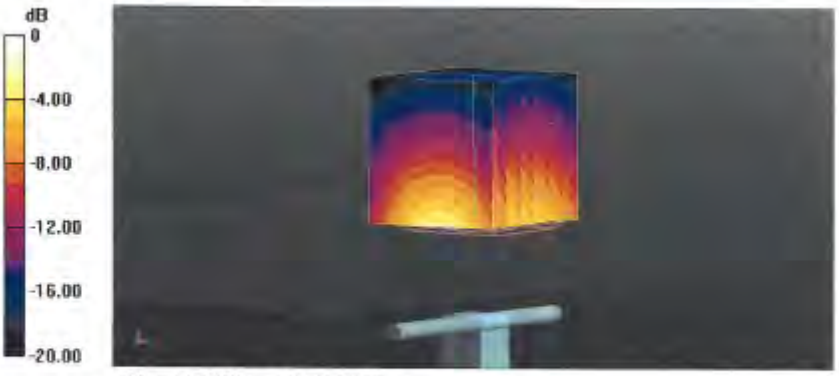
**DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN:1006**

Communication System: UID 0 - CW; Frequency: 2300 MHz
Medium parameters used: f = 2300 MHz; $\sigma$ = 1.85 S/m; $\varepsilon_r$ = 52; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(8.08, 8.08, 8.08); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 105.6 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 23.0 W/kg
**SAR(1 g) = 12 W/kg; SAR(10 g) = 5.74 W/kg**
Maximum value of SAR (measured) = 18.5 W/kg

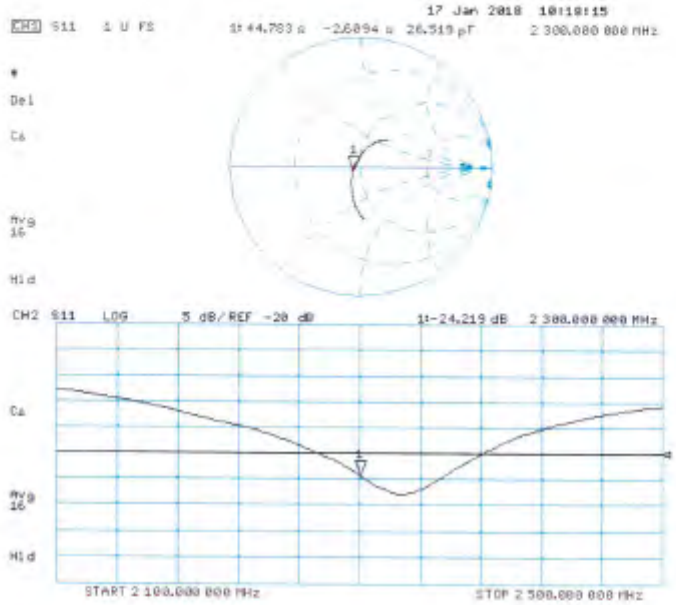



0 dB = 18.5 W/kg = 12.67 dBW/kg



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**Impedance Measurement Plot for Body TSL**






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Accreditation No.: SCS 0108

Client SGS-TW (Auden)

Certificate No: D2450V2-727_Apr18

# CALIBRATION CERTIFICATE

| | |
|---|---|
| Object | D2450V2 - SN:727 |
| Calibration procedure(s) | QA CAL-05.v10<br>Calibration procedure for dipole validation kits above 700 MHz |
| Calibration date: | April 24, 2018 |

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date (Certificate No.) | Scheduled Calibration |
|---|---|---|---|
| Power meter NRP | SN: 104778 | 04-Apr-18 (No. 217-02672/02673) | Apr-19 |
| Power sensor NRP-Z91 | SN: 103244 | 04-Apr-18 (No. 217-02672) | Apr-19 |
| Power sensor NRP-Z91 | SN: 103245 | 04-Apr-18 (No. 217-02673) | Apr-19 |
| Reference 20 dB Attenuator | SN: 5058 (20k) | 04-Apr-18 (No. 217-02682) | Apr-19 |
| Type-N mismatch combination | SN: 5047.2 / 06327 | 04-Apr-18 (No. 217-02683) | Apr-19 |
| Reference Probe EX3DV4 | SN: 7349 | 30-Dec-17 (No. EX3-7349_Dec17) | Dec-18 |
| DAE4 | SN: 601 | 26-Oct-17 (No. DAE4-601_Oct17) | Oct-18 |

| Secondary Standards | ID # | Check Date (in house) | Scheduled Check |
|---|---|---|---|
| Power meter EPM-442A | SN: GB37480704 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A | SN: US37292783 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A | SN: MY41092317 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| RF generator R&S SMT-06 | SN: 100972 | 15-Jun-15 (in house check Oct-16) | In house check: Oct-18 |
| Network Analyzer HP 8753E | SN: US37390585 | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |

| | Name | Function | Signature |
|---|---|---|---|
| Calibrated by: | Jeton Kastrati | Laboratory Technician | |
| Approved by: | Katja Pokovic | Technical Manager | |

Issued: April 25, 2018

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Accreditation No.: SCS 0108

**Glossary:**

| | |
|---|---|
| TSL | tissue simulating liquid |
| ConvF | sensitivity in TSL / NORM x,y,z |
| N/A | not applicable or not measured |

**Calibration is Performed According to the Following Standards:**

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Additional Documentation:**

a) DASY4/5 System Handbook

**Methods Applied and Interpretation of Parameters:**

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.



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## Measurement Conditions

DASY system configuration, as far as not given on page 1.

| | | |
|---|---|---|
| **DASY Version** | DASY5 | V52.10.0 |
| **Extrapolation** | Advanced Extrapolation | |
| **Phantom** | Modular Flat Phantom | |
| **Distance Dipole Center - TSL** | 10 mm | with Spacer |
| **Zoom Scan Resolution** | dx, dy, dz = 5 mm | |
| **Frequency** | 2450 MHz ± 1 MHz | |

## Head TSL parameters

The following parameters and calculations were applied.

| | **Temperature** | **Permittivity** | **Conductivity** |
|---|---|---|---|
| **Nominal Head TSL parameters** | 22.0 °C | 39.2 | 1.80 mho/m |
| **Measured Head TSL parameters** | (22.0 ± 0.2) °C | 38.3 ± 6 % | 1.86 mho/m ± 6 % |
| **Head TSL temperature change during test** | < 0.5 °C | — | — |

## SAR result with Head TSL

| **SAR averaged over 1 cm³ (1 g) of Head TSL** | Condition | |
|---|---|---|
| SAR measured | 250 mW input power | 13.3 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **52.1 W/kg ± 17.0 % (k=2)** |

| **SAR averaged over 10 cm³ (10 g) of Head TSL** | condition | |
|---|---|---|
| SAR measured | 250 mW input power | 8.16 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **24.3 W/kg ± 16.5 % (k=2)** |

## Body TSL parameters

The following parameters and calculations were applied.

| | **Temperature** | **Permittivity** | **Conductivity** |
|---|---|---|---|
| **Nominal Body TSL parameters** | 22.0 °C | 52.7 | 1.95 mho/m |
| **Measured Body TSL parameters** | (22.0 ± 0.2) °C | 52.5 ± 6 % | 2.01 mho/m ± 6 % |
| **Body TSL temperature change during test** | < 0.5 °C | — | — |

## SAR result with Body TSL

| **SAR averaged over 1 cm³ (1 g) of Body TSL** | Condition | |
|---|---|---|
| SAR measured | 250 mW input power | 12.9 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **50.8 W/kg ± 17.0 % (k=2)** |

| **SAR averaged over 10 cm³ (10 g) of Body TSL** | condition | |
|---|---|---|
| SAR measured | 250 mW input power | 8.00 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **23.8 W/kg ± 16.5 % (k=2)** |



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## Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL

| | |
|---|---|
| Impedance, transformed to feed point | 55.2 Ω + 2.7 jΩ |
| Return Loss | - 25.1 dB |

### Antenna Parameters with Body TSL

| | |
|---|---|
| Impedance, transformed to feed point | 51.2 Ω + 5.6 jΩ |
| Return Loss | - 25.0 dB |

### General Antenna Parameters and Design

| | |
|---|---|
| Electrical Delay (one direction) | 1.149 ns |

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

| | |
|---|---|
| Manufactured by | SPEAG |
| Manufactured on | January 09, 2003 |



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**DASY5 Validation Report for Head TSL**

Date: 24.04.2018

Test Laboratory: SPEAG, Zurich, Switzerland

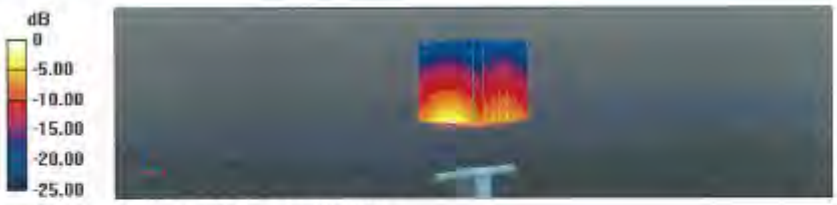
**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:727**

Communication System: UID 0 - CW; Frequency: 2450 MHz
Medium parameters used: f = 2450 MHz; $\sigma$ = 1.86 S/m; $\varepsilon_r$ = 38.3; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(7.88, 7.88, 7.88); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 116.0 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 26.7 W/kg
**SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.16 W/kg**
Maximum value of SAR (measured) = 22.0 W/kg

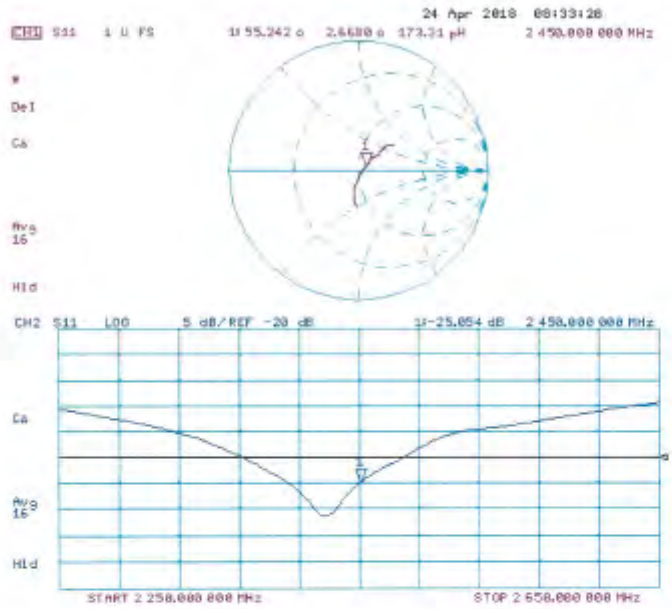



0 dB = 22.0 W/kg = 13.42 dBW/kg



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**Impedance Measurement Plot for Head TSL**






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**DASY5 Validation Report for Body TSL**

Date: 24.04.2018

Test Laboratory: SPEAG, Zurich, Switzerland

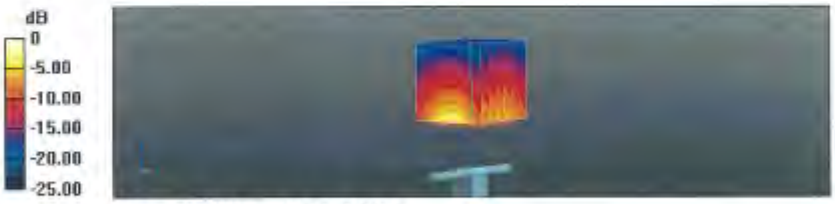
**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:727**

Communication System: UID 0 - CW; Frequency: 2450 MHz
Medium parameters used: f = 2450 MHz; $\sigma$ = 2.01 S/m; $\varepsilon_r$ = 52.5; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(8.01, 8.01, 8.01); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 108.4 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 25.5 W/kg
**SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6 W/kg**
Maximum value of SAR (measured) = 21.1 W/kg

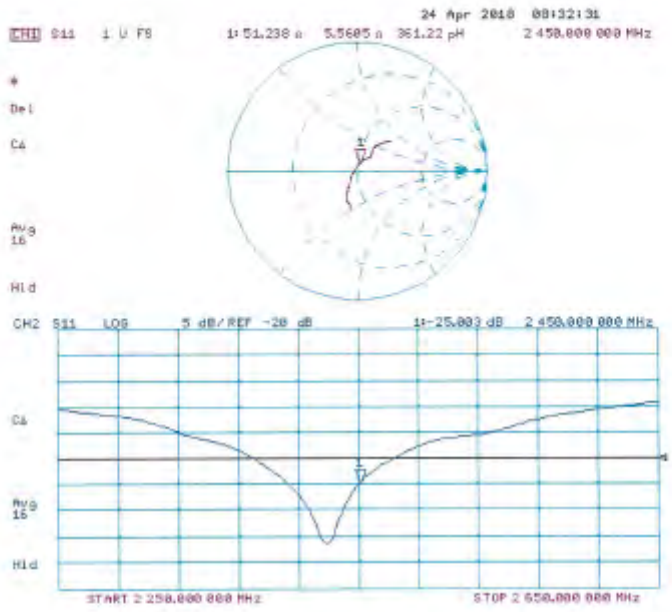



0 dB = 21.1 W/kg = 13.24 dBW/kg



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**Impedance Measurement Plot for Body TSL**






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Accreditation No.: SCS 0108

Client SGS-TW (Auden)

Certificate No: D2600V2-1005_Jan18

# CALIBRATION CERTIFICATE

Object D2600V2 - SN:1005

Calibration procedure(s) QA CAL-05.v9
Calibration procedure for dipole validation kits above 700 MHz

Calibration date: January 17, 2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date (Certificate No.) | Scheduled Calibration |
|---|---|---|---|
| Power meter NRP | SN: 104778 | 04-Apr-17 (No. 217-02521/02522) | Apr-18 |
| Power sensor NRP-Z91 | SN: 103244 | 04-Apr-17 (No. 217-02521) | Apr-18 |
| Power sensor NRP-Z91 | SN: 103245 | 04-Apr-17 (No. 217-02522) | Apr-18 |
| Reference 20 dB Attenuator | SN: 5058 (20k) | 07-Apr-17 (No. 217-02528) | Apr-18 |
| Type-N mismatch combination | SN: 5047.2 / 06327 | 07-Apr-17 (No. 217-02529) | Apr-18 |
| Reference Probe EX3DV4 | SN: 7349 | 30-Dec-17 (No. EX3-7349_Dec17) | Dec-18 |
| DAE4 | SN: 601 | 26-Oct-17 (No. DAE4-601_Oct17) | Oct-18 |

| Secondary Standards | ID # | Check Date (in house) | Scheduled Check |
|---|---|---|---|
| Power meter EPM-442A | SN: GB37480704 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A | SN: US37292783 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A | SN: MY41092317 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| RF generator R&S SMT-06 | SN: 100972 | 15-Jun-15 (in house check Oct-16) | In house check: Oct-18 |
| Network Analyzer HP 8753E | SN: US37390585 | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |

| | Name | Function | Signature |
|---|---|---|---|
| Calibrated by: | Jaton Kastrati | Laboratory Technician | |
| Approved by: | Katja Pokovic | Technical Manager | |

Issued: January 17, 2018

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Accreditation No.: SCS 0108

**Glossary:**

| | |
|---|---|
| TSL | tissue simulating liquid |
| ConvF | sensitivity in TSL / NORM x,y,z |
| N/A | not applicable or not measured |

**Calibration is Performed According to the Following Standards:**

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Additional Documentation:**

e) DASY4/5 System Handbook

**Methods Applied and Interpretation of Parameters:**

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.



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## Measurement Conditions

DASY system configuration, as far as not given on page 1.

| | | |
|---|---|---|
| **DASY Version** | DASY5 | V52.10.0 |
| **Extrapolation** | Advanced Extrapolation | |
| **Phantom** | Modular Flat Phantom | |
| **Distance Dipole Center - TSL** | 10 mm | with Spacer |
| **Zoom Scan Resolution** | dx, dy, dz = 5 mm | |
| **Frequency** | 2600 MHz ± 1 MHz | |

## Head TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| **Nominal Head TSL parameters** | 22.0 °C | 39.0 | 1.96 mho/m |
| **Measured Head TSL parameters** | (22.0 ± 0.2) °C | 37.2 ± 6 % | 2.04 mho/m ± 6 % |
| **Head TSL temperature change during test** | < 0.5 °C | ---- | ---- |

## SAR result with Head TSL

| **SAR averaged over 1 cm³ (1 g) of Head TSL** | Condition | |
|---|---|---|
| SAR measured | 250 mW input power | 14.6 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **56.8 W/kg ± 17.0 % (k=2)** |

| **SAR averaged over 10 cm³ (10 g) of Head TSL** | condition | |
|---|---|---|
| SAR measured | 250 mW input power | 6.49 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **25.5 W/kg ± 16.5 % (k=2)** |

## Body TSL parameters

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| **Nominal Body TSL parameters** | 22.0 °C | 52.5 | 2.16 mho/m |
| **Measured Body TSL parameters** | (22.0 ± 0.2) °C | 51.1 ± 6 % | 2.20 mho/m ± 6 % |
| **Body TSL temperature change during test** | < 0.5 °C | ---- | ---- |

## SAR result with Body TSL

| **SAR averaged over 1 cm³ (1 g) of Body TSL** | Condition | |
|---|---|---|
| SAR measured | 250 mW input power | 13.8 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **54.4 W/kg ± 17.0 % (k=2)** |

| **SAR averaged over 10 cm³ (10 g) of Body TSL** | condition | |
|---|---|---|
| SAR measured | 250 mW input power | 6.13 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **24.3 W/kg ± 16.5 % (k=2)** |



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## Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL

| | |
|---|---|
| Impedance, transformed to feed point | 48.4 Ω - 4.7 jΩ |
| Return Loss | - 26.0 dB |

### Antenna Parameters with Body TSL

| | |
|---|---|
| Impedance, transformed to feed point | 46.2 Ω - 3.0 jΩ |
| Return Loss | - 25.9 dB |

### General Antenna Parameters and Design

| | |
|---|---|
| Electrical Delay (one direction) | 1.155 ns |

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

| | |
|---|---|
| Manufactured by | SPEAG |
| Manufactured on | December 23, 2006 |



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**DASY5 Validation Report for Head TSL**

Date: 17.01.2018

Test Laboratory: SPEAG, Zurich, Switzerland

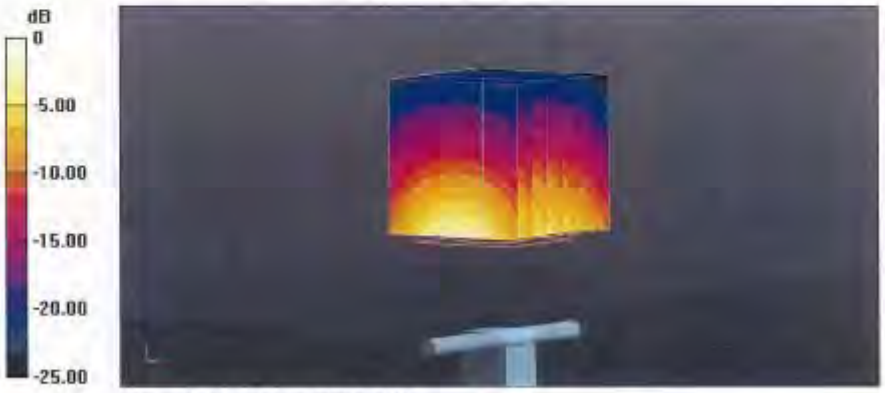
**DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1005**

Communication System: UID 0 - CW; Frequency: 2600 MHz
Medium parameters used: f = 2600 MHz; $\sigma$ = 2.04 S/m; $\varepsilon_r$ = 37.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(7.7, 7.7, 7.7); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 118.8 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 29.8 W/kg
**SAR(1 g) = 14.6 W/kg; SAR(10 g) = 6.49 W/kg**
Maximum value of SAR (measured) = 24.1 W/kg

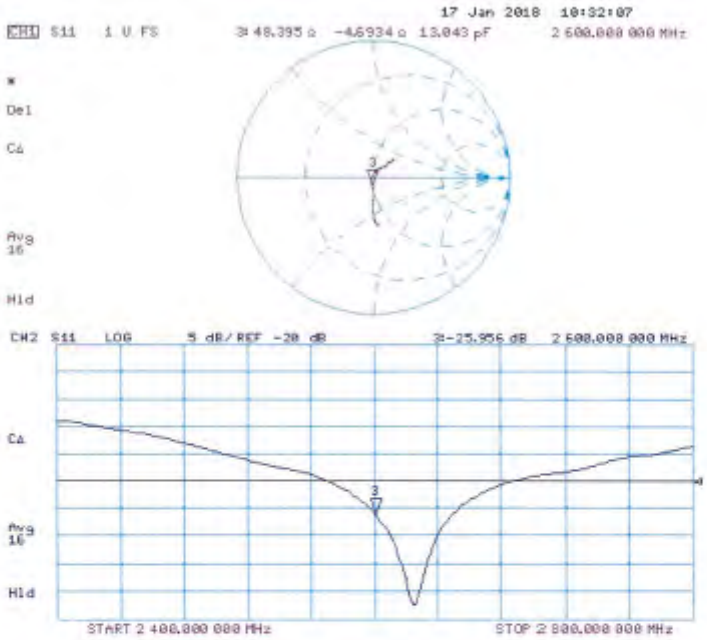



0 dB = 24.1 W/kg = 13.82 dBW/kg



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## Impedance Measurement Plot for Head TSL






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**DASY5 Validation Report for Body TSL**

Date: 17.01.2018

Test Laboratory: SPEAG, Zurich, Switzerland

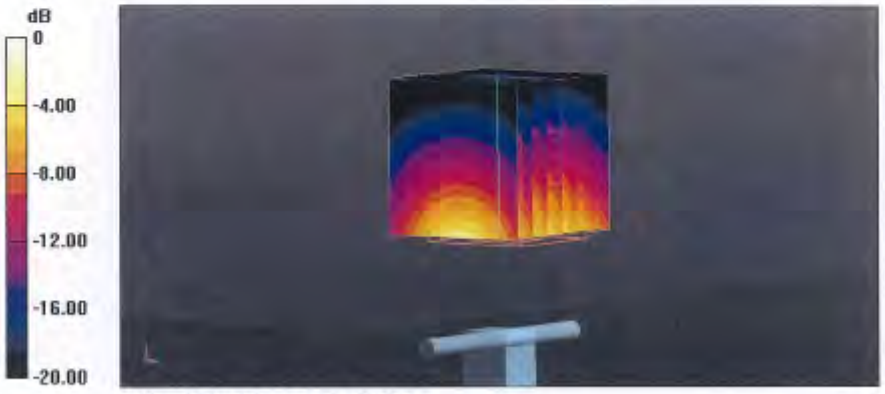
**DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1005**

Communication System: UID 0 - CW; Frequency: 2600 MHz
Medium parameters used: f = 2600 MHz; $\sigma$ = 2.2 S/m; $\varepsilon_r$ = 51.1; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(7.81, 7.81, 7.81); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:**
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 108.0 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 28.6 W/kg
**SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.13 W/kg**
Maximum value of SAR (measured) = 22.6 W/kg

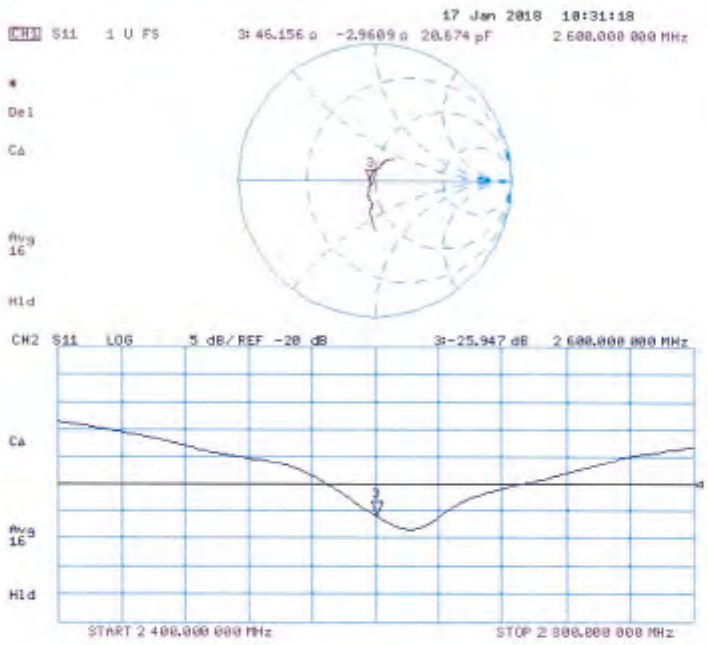



0 dB = 22.6 W/kg = 13.54 dBW/kg



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## Impedance Measurement Plot for Body TSL






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Accreditation No.: SCS 0108

Client SGS-TW (Auden) Certificate No: D5GHzV2-1023_Jan18

# CALIBRATION CERTIFICATE

Object D5GHzV2 - SN:1023

Calibration procedure(s) QA CAL-22.v2
Calibration procedure for dipole validation kits between 3-6 GHz

Calibration date: January 25, 2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date (Certificate No.) | Scheduled Calibration |
|---|---|---|---|
| Power meter NRP | SN: 104778 | 04-Apr-17 (No. 217-02521/02522) | Apr-18 |
| Power sensor NRP-Z91 | SN: 103244 | 04-Apr-17 (No. 217-02521) | Apr-18 |
| Power sensor NRP-Z91 | SN: 103245 | 04-Apr-17 (No. 217-02522) | Apr-18 |
| Reference 20 dB Attenuator | SN: 5058 (20k) | 07-Apr-17 (No. 217-02528) | Apr-18 |
| Type-N mismatch combination | SN: 5047.2 / 06327 | 07-Apr-17 (No. 217-02529) | Apr-18 |
| Reference Probe EX3DV4 | SN: 3503 | 30-Dec-17 (No. EX3-3503_Dec17) | Dec-18 |
| DAE4 | SN: 601 | 26-Oct-17 (No. DAE4-601_Oct17) | Oct-18 |

| Secondary Standards | ID # | Check Date (in house) | Scheduled Check |
|---|---|---|---|
| Power meter EPM-442A | SN: GB37480704 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A | SN: US37292783 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| Power sensor HP 8481A | SN: MY41092317 | 07-Oct-15 (in house check Oct-16) | In house check: Oct-18 |
| RF generator R&S SMT-06 | SN: 100972 | 15-Jun-15 (in house check Oct-16) | In house check: Oct-18 |
| Network Analyzer HP 8753E | SN: US37390585 | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |

| | Name | Function | Signature |
|---|---|---|---|
| Calibrated by: | Jeton Kastrati | Laboratory Technician | |
| Approved by: | Katja Pokovic | Technical Manager | |

Issued: January 25, 2018

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Accreditation No.: SCS 0108

**Glossary:**

| | |
|---|---|
| TSL | tissue simulating liquid |
| ConvF | sensitivity in TSL / NORM x,y,z |
| N/A | not applicable or not measured |

**Calibration is Performed According to the Following Standards:**

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Additional Documentation:**

e) DASY4/5 System Handbook

**Methods Applied and Interpretation of Parameters:**

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.



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## Measurement Conditions

DASY system configuration, as far as not given on page 1.

| | | |
|---|---|---|
| **DASY Version** | DASY5 | V52.10.0 |
| **Extrapolation** | Advanced Extrapolation | |
| **Phantom** | Modular Flat Phantom V5.0 | |
| **Distance Dipole Center - TSL** | 10 mm | with Spacer |
| **Zoom Scan Resolution** | dx, dy = 4.0 mm, dz = 1.4 mm | Graded Ratio = 1.4 (Z direction) |
| **Frequency** | 5200 MHz ± 1 MHz<br>5300 MHz ± 1 MHz<br>5600 MHz ± 1 MHz<br>5800 MHz ± 1 MHz | |

## Head TSL parameters at 5200 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| **Nominal Head TSL parameters** | 22.0 °C | 36.0 | 4.66 mho/m |
| **Measured Head TSL parameters** | (22.0 ± 0.2) °C | 36.3 ± 6 % | 4.50 mho/m ± 6 % |
| **Head TSL temperature change during test** | < 0.5 °C | --- | --- |

## SAR result with Head TSL at 5200 MHz

| **SAR averaged over 1 cm³ (1 g) of Head TSL** | Condition | |
|---|---|---|
| SAR measured | 100 mW input power | 7.72 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **77.3 W/kg ± 19.9 % (k=2)** |

| **SAR averaged over 10 cm³ (10 g) of Head TSL** | condition | |
|---|---|---|
| SAR measured | 100 mW input power | 2.22 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **22.2 W/kg ± 19.5 % (k=2)** |



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## Head TSL parameters at 5300 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| Nominal Head TSL parameters | 22.0 °C | 35.9 | 4.76 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 35.2 ± 6 % | 4.60 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | — | — |

## SAR result with Head TSL at 5300 MHz

| SAR averaged over 1 $cm^3$ (1 g) of Head TSL | Condition | |
|---|---|---|
| SAR measured | 100 mW input power | 8.09 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **80.9 W / kg ± 19.9 % (k=2)** |

| SAR averaged over 10 $cm^3$ (10 g) of Head TSL | condition | |
|---|---|---|
| SAR measured | 100 mW input power | 2.32 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **23.2 W/kg ± 19.5 % (k=2)** |

## Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| Nominal Head TSL parameters | 22.0 °C | 35.5 | 5.07 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 35.8 ± 6 % | 4.90 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | — | — |

## SAR result with Head TSL at 5600 MHz

| SAR averaged over 1 $cm^3$ (1 g) of Head TSL | Condition | |
|---|---|---|
| SAR measured | 100 mW input power | 8.19 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **81.9 W/kg ± 19.9 % (k=2)** |

| SAR averaged over 10 $cm^3$ (10 g) of Head TSL | condition | |
|---|---|---|
| SAR measured | 100 mW input power | 2.34 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **23.4 W/kg ± 19.5 % (k=2)** |



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## Head TSL parameters at 5800 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| Nominal Head TSL parameters | 22.0 °C | 35.3 | 5.27 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 35.5 ± 6 % | 5.11 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | --- | --- |

## SAR result with Head TSL at 5800 MHz

| SAR averaged over 1 $cm^3$ (1 g) of Head TSL | Condition | |
|---|---|---|
| SAR measured | 100 mW input power | 7.90 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **79.0 W/kg ± 19.9 % (k=2)** |

| SAR averaged over 10 $cm^3$ (10 g) of Head TSL | condition | |
|---|---|---|
| SAR measured | 100 mW input power | 2.25 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | **22.5 W/kg ± 19.5 % (k=2)** |



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## Body TSL parameters at 5200 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| Nominal Body TSL parameters | 22.0 °C | 49.0 | 5.30 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 47.3 ± 6 % | 5.41 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C | — | — |

## SAR result with Body TSL at 5200 MHz

| SAR averaged over 1 cm³ (1 g) of Body TSL | Condition | |
|---|---|---|
| SAR measured | 100 mW input power | 7.14 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **70.5 W/kg ± 19.9 % (k=2)** |

| SAR averaged over 10 cm³ (10 g) of Body TSL | condition | |
|---|---|---|
| SAR measured | 100 mW input power | 2.00 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **19.8 W/kg ± 19.5 % (k=2)** |

## Body TSL parameters at 5300 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| Nominal Body TSL parameters | 22.0 °C | 48.9 | 5.42 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 47.1 ± 6 % | 5.54 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C | — | — |

## SAR result with Body TSL at 5300 MHz

| SAR averaged over 1 cm³ (1 g) of Body TSL | Condition | |
|---|---|---|
| SAR measured | 100 mW input power | 7.34 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **72.9 W/kg ± 19.9 % (k=2)** |

| SAR averaged over 10 cm³ (10 g) of Body TSL | condition | |
|---|---|---|
| SAR measured | 100 mW input power | 2.06 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **20.4 W/kg ± 19.5 % (k=2)** |



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## Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| Nominal Body TSL parameters | 22.0 °C | 48.5 | 5.77 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 46.6 ± 6 % | 5.94 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C | --- | --- |

## SAR result with Body TSL at 5600 MHz

| SAR averaged over 1 cm³ (1 g) of Body TSL | Condition | |
|---|---|---|
| SAR measured | 100 mW input power | 7.81 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **77.6 W/kg ± 19.9 % (k=2)** |

| SAR averaged over 10 cm³ (10 g) of Body TSL | condition | |
|---|---|---|
| SAR measured | 100 mW input power | 2.19 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **21.7 W/kg ± 19.5 % (k=2)** |

## Body TSL parameters at 5800 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---|---|---|
| Nominal Body TSL parameters | 22.0 °C | 48.2 | 6.00 mho/m |
| Measured Body TSL parameters | (22.0 ± 0.2) °C | 46.2 ± 6 % | 6.22 mho/m ± 6 % |
| Body TSL temperature change during test | < 0.5 °C | --- | --- |

## SAR result with Body TSL at 5800 MHz

| SAR averaged over 1 cm³ (1 g) of Body TSL | Condition | |
|---|---|---|
| SAR measured | 100 mW input power | 7.46 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **74.1 W/kg ± 19.9 % (k=2)** |

| SAR averaged over 10 cm³ (10 g) of Body TSL | condition | |
|---|---|---|
| SAR measured | 100 mW input power | 2.07 W/kg |
| SAR for nominal Body TSL parameters | normalized to 1W | **20.5 W/kg ± 19.5 % (k=2)** |



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## Appendix (Additional assessments outside the scope of SCS 0108)

### Antenna Parameters with Head TSL at 5200 MHz

| | |
|---|---|
| Impedance, transformed to feed point | 50.1 Ω - 8.1 jΩ |
| Return Loss | - 21.9 dB |

### Antenna Parameters with Head TSL at 5300 MHz

| | |
|---|---|
| Impedance, transformed to feed point | 50.5 Ω - 2.3 jΩ |
| Return Loss | - 32.7 dB |

### Antenna Parameters with Head TSL at 5600 MHz

| | |
|---|---|
| Impedance, transformed to feed point | 53.9 Ω - 0.7 jΩ |
| Return Loss | - 28.4 dB |

### Antenna Parameters with Head TSL at 5800 MHz

| | |
|---|---|
| Impedance, transformed to feed point | 55.3 Ω + 2.6 jΩ |
| Return Loss | - 25.1 dB |

### Antenna Parameters with Body TSL at 5200 MHz

| | |
|---|---|
| Impedance, transformed to feed point | 49.8 Ω - 6.9 jΩ |
| Return Loss | - 23.2 dB |

### Antenna Parameters with Body TSL at 5300 MHz

| | |
|---|---|
| Impedance, transformed to feed point | 50.9 Ω - 0.9 jΩ |
| Return Loss | - 37.9 dB |

### Antenna Parameters with Body TSL at 5600 MHz

| | |
|---|---|
| Impedance, transformed to feed point | 56.0 Ω + 0.5 jΩ |
| Return Loss | - 24.9 dB |

### Antenna Parameters with Body TSL at 5800 MHz

| | |
|---|---|
| Impedance, transformed to feed point | 56.6 Ω + 2.3 jΩ |
| Return Loss | - 23.7 dB |



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## General Antenna Parameters and Design

| | |
|---|---|
| Electrical Delay (one direction) | 1.199 ns |

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

## Additional EUT Data

| | |
|---|---|
| Manufactured by | SPEAG |
| Manufactured on | February 05, 2004 |



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## DASY5 Validation Report for Head TSL

Date: 25.01.2018

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1023**

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz
Medium parameters used: f = 5200 MHz; $\sigma$ = 4.5 S/m; $\varepsilon_r$ = 36.3; $\rho$ = 1000 kg/m$^3$,
Medium parameters used: f = 5300 MHz; $\sigma$ = 4.6 S/m; $\varepsilon_r$ = 36.2; $\rho$ = 1000 kg/m$^3$,
Medium parameters used: f = 5600 MHz; $\sigma$ = 4.9 S/m; $\varepsilon_r$ = 35.8; $\rho$ = 1000 kg/m$^3$,
Medium parameters used: f = 5800 MHz; $\sigma$ = 5.11 S/m; $\varepsilon_r$ = 35.5; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(5.75, 5.75, 5.75); Calibrated: 30.12.2017, ConvF(5.5, 5.5, 5.5); Calibrated: 30.12.2017; ConvF(5.05, 5.05, 5.05); Calibrated: 30.12.2017, ConvF(4.96, 4.96, 4.96); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 70.47 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 27.5 W/kg
**SAR(1 g) = 7.72 W/kg; SAR(10 g) = 2.22 W/kg**
Maximum value of SAR (measured) = 17.7 W/kg

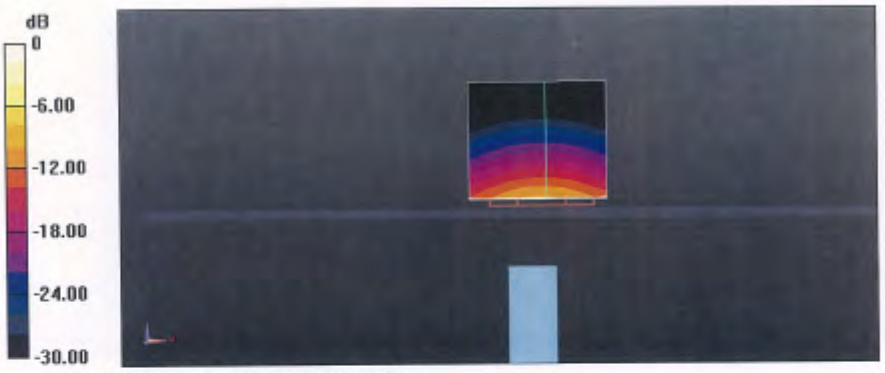
**Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 74.63 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 29.6 W/kg
**SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.32 W/kg**
Maximum value of SAR (measured) = 18.6 W/kg

**Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 70.79 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 31.5 W/kg
**SAR(1 g) = 8.19 W/kg; SAR(10 g) = 2.34 W/kg**
Maximum value of SAR (measured) = 19.6 W/kg



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**Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 69.22 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 31.2 W/kg
**SAR(1 g) = 7.9 W/kg; SAR(10 g) = 2.25 W/kg**
Maximum value of SAR (measured) = 19.0 W/kg



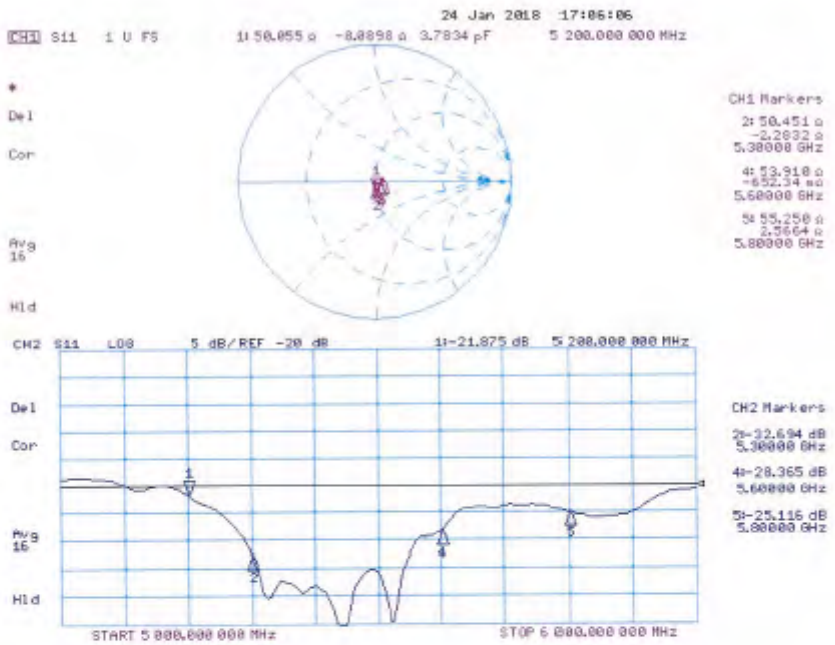

0 dB = 17.7 W/kg = 12.48 dBW/kg



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## Impedance Measurement Plot for Head TSL






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## DASY5 Validation Report for Body TSL

Date: 23.01.2018

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1023**

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz
Medium parameters used: f = 5200 MHz; $\sigma$ = 5.41 S/m; $\varepsilon_r$ = 47.3; $\rho$ = 1000 kg/m$^3$,
Medium parameters used: f = 5300 MHz; $\sigma$ = 5.54 S/m; $\varepsilon_r$ = 47.1; $\rho$ = 1000 kg/m$^3$,
Medium parameters used: f = 5600 MHz; $\sigma$ = 5.94 S/m; $\varepsilon_r$ = 46.6; $\rho$ = 1000 kg/m$^3$,
Medium parameters used: f = 5800 MHz; $\sigma$ = 6.22 S/m; $\varepsilon_r$ = 46.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(5.35, 5.35, 5.35); Calibrated: 30.12.2017; ConvF(5.15, 5.15, 5.15); Calibrated: 30.12.2017; ConvF(4.65, 4.65, 4.65); Calibrated: 30.12.2017; ConvF(4.53, 4.53, 4.53); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 26.10.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

**Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 66.00 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 26.4 W/kg
**SAR(1 g) = 7.14 W/kg; SAR(10 g) = 2 W/kg**
Maximum value of SAR (measured) = 16.8 W/kg

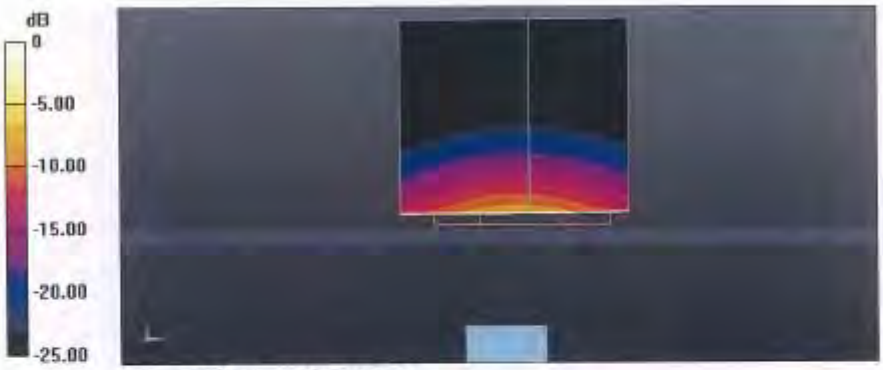
**Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 65.19 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 28.4 W/kg
**SAR(1 g) = 7.34 W/kg; SAR(10 g) = 2.06 W/kg**
Maximum value of SAR (measured) = 17.6 W/kg

**Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 66.21 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 32.8 W/kg
**SAR(1 g) = 7.81 W/kg; SAR(10 g) = 2.19 W/kg**
Maximum value of SAR (measured) = 19.1 W/kg



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**Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 64.05 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 32.3 W/kg
**SAR(1 g) = 7.46 W/kg; SAR(10 g) = 2.07 W/kg**
Maximum value of SAR (measured) = 18.8 W/kg



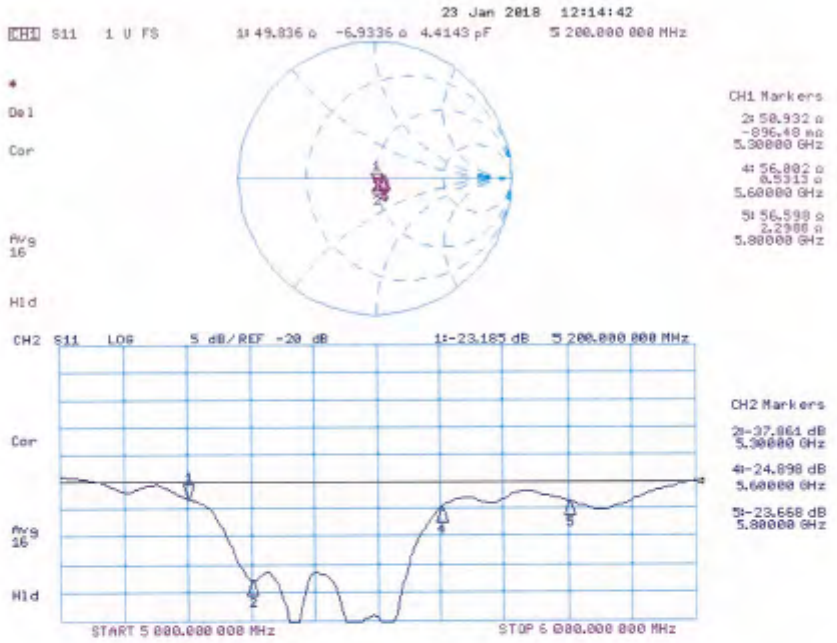

0 dB = 18.8 W/kg = 12.74 dBW/kg



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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**Impedance Measurement Plot for Body TSL**






**- End of report -**

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