



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

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 1 of 148

FCC SAR TEST REPORT

Application No.: SZCR2410003959WM
Applicant: Guangdong OPPO Mobile Telecommunications Corp.,Ltd.
Address of Applicant: NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City, Guangdong, China
Manufacturer: Guangdong OPPO Mobile Telecommunications Corp.,Ltd.
Address of Manufacturer: NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City, Guangdong, China
EUT Description: Mobile Phone
Model No.: CPH2699
Trade Mark: OPPO
FCC ID: R9C-OP24263
Standards: FCC 47CFR §2.1093
Date of Receipt: 2024-11-30
Date of Test: 2024-12-01 to 2024-12-16
Date of Issue: 2024-12-19

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



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Report No.: SZCR241000395910

Page: 2 of 148

Revision Record			
Version	Description	Date	Remark
01		2024/12/19	

Authorized for issue by:				
		Sherlock Fang		
		Sherlock Fang/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 3 of 148

TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	1.05	0.51	1.06	2.10
GSM1900	0.85	0.36	0.52	/
WCDMA Band II	0.89	0.28	0.50	/
WCDMA Band IV	0.69	0.25	0.40	/
WCDMA Band V	0.74	0.39	0.68	/
LTE Band 2	0.98	0.28	0.48	/
LTE Band 7	0.93	0.32	0.45	/
LTE Band 12/17	0.27	0.18	0.51	/
LTE Band 13	0.53	0.32	0.69	/
LTE Band 26/5	0.70	0.37	0.67	/
LTE Band 41/38	0.96	0.54	0.70	/
LTE Band 66/4	0.78	0.27	0.37	/
NR Band n2	1.05	0.39	0.45	/
NR Band n7	1.06	0.25	0.47	/
NR Band n12	0.45	0.26	0.69	/
NR Band n26/5	1.01	0.55	0.76	/
NR Band n41/38	0.99	0.41	0.76	/
NR Band n66	0.87	0.25	0.36	/
NR Band n77/78	1.19	0.36	1.11	/
WI-FI (2.4GHz)	0.90	0.29	0.73	/
WI-FI (5GHz)	0.65	0.34	0.73	1.88
BT	0.37	0.17	0.38	/
SAR Limited(W/kg)	1.6			4.0
Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR
Sum SAR	1.58	1.05	1.58	2.10
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1
Note: The Simultaneous transmission SAR is the same test position of the WWAN Antenna + WiFi/BT Antenna.				
According to TCB workshop (Overlapping LTE Bands): SAR in LTE band 4 (frequency range: 1710-1755) is covered by LTE band 66 (frequency range: 1710-1780). SAR in LTE band 5 (frequency range: 824-849 MHz) is covered by LTE band 26 (frequency range: 814-849 MHz). SAR in LTE band 17 (frequency range: 704-716 MHz) is covered by LTE band 12 (frequency range: 699-716 MHz). SAR in LTE band 38 (frequency range: 2570-2620 MHz) is covered by LTE band 41 (frequency range: 2496-2690 MHz). SAR in NR Band n5 (frequency range: 824-849 MHz) is covered by NR Band n26 (frequency range: 814-849				



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 4 of 148

MHz). The SAR in NR Band n38 (frequency range: 2570-2620 MHz) is covered by NR Band n41 (frequency range: 2496-2690 MHz). The SAR in NR Band n78 (frequency range: 3450-3550 & 3700-3800MHz) is covered by NR Band n77 (frequency range: 3450-3550 & 3700-3980MHz). Because the frequency range is similar, the maximum tuning limit is the same, and the channel bandwidth and other operating parameters for the smaller band is fully supported by the larger band.



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Contents

1	General Information.....	6
1.1	General Description of EUT	6
1.2	Test Specification	15
1.3	RF exposure limits	16
1.4	Test Location.....	17
1.5	Test Facility	17
2	Laboratory Environment	18
3	SAR Measurements System Configuraion.....	19
3.1	The SAR Measurement System	19
3.2	Isotropic E-field Probe EX3DV4	21
3.3	Data Acquisition Electronics (DAE)	22
3.4	SAM Twin Phantom	22
3.5	ELI Phantom	23
3.6	Device Holder for Transmitters	24
3.7	Measurement Procedure.....	25
4	SAR measurement variability and uncertainty	29
4.1	SAR measurement variability	29
4.2	SAR measurement uncertainty	29
5	Desciption of Test Position	30
5.1	The Head Test Position	30
5.2	The Body Test Position	34
5.3	Extremity exposure conditions	35
6	SAR System Verificaion Procedure	36
6.1	Tissue Simulate Liquid	36
6.2	SAR System Check	38
7	Test Configuration	41
7.1	3G SAR Test Reduction Procedure	41
7.2	Operation Configurations	41
8	Test Result	67
8.1	Measurement of RF Conducted Power	67
8.2	Measurement of SAR Data	69
8.3	Multiple Transmitter Evaluation.....	129
9	Equipment list	146
10	Calibration certificate	148
11	Photographs	148
Appendix A: Detailed System Check Results		148
Appendix B: Detailed Test Results		148
Appendix C: Calibration certificate		148
Appendix D: Photographs		148
Appendix E: Conducted RF Output Power.....		148



1 General Information

1.1 General Description of EUT

Product Name:	Mobile Phone		
Model No.:	CPH2699		
Trade Mark:	OPPO		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	865009070025932; 865009070025395; 865009070025551; 865009070027011; 865009070025858; 865009070025296; 865009070026153; 865009070026757.		
Hardware Version:	11		
Software Version:	ColorOS 15.0		
Antenna Type:	IFA Antenna		
Device Operating Configurations:			
Modulation Mode:	GSM: GMSK, 8PSK; WCDMA: QPSK,16QAM LTE: QPSK,16QAM,64QAM 5G NR: DFT-s-OFDM (QPSK, 16QAM, 64QAM, 256QAM), CP-OFDM (QPSK, 16QAM, 64QAM, 256QAM) WIFI: DSSS, OFDM; BT: GFSK, π /4DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33
HSDPA UE Category:	24	HSUPA UE Category:	6
DC-HSDPA UE Category:	24		
Power Class:	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control “all 1”(WCDMA Band)		
	3, tested with power control “max power”(LTE Band)		
Frequency Bands:	Band	Tx(MHz)	Rx(MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 7 of 148

	LTE Band 2	1850 ~1910	1930 ~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 17	704~716	734~746
	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 66	1710~1780	2110~2180
	NR Band n2	1850 ~1910	1930 ~1990
	NR Band n5	824~849	869~894
	NR Band n7	2500~2570	2620~2690
	NR Band n12	699~716	729~746
	NR Band n26	814~849	859~894
	NR Band n38	2570~2620	2570~2620
	NR Band n41 (Class 2/3)	2496~2690	2496~2690
	NR Band n66	1710~1780	2110~2180
	NR Band n77	3450~3550	3450~3550
		3700~3980	3700~3980
	NR Band n78(Class 2/3)	3450~3550	3450~3550
		3700~3800	3700~3800
	WIFI 2.4G	2412~2462	2412~2462
	WIFI 5G	5150~5250	5150~5250
		5250~5350	5250~5350
		5470~5725	5470~5725
		5725~5850	5725~5850
	BT	2402~2480	2402~2480
	NFC	13.56	13.56
RF Cable:	☒ Provided by applicant ☐ Provided by the laboratory		
Battery Information:	Model:	BLPB87	
	Normal Voltage:	3.92V	
	Rated capacity:	5640mAh	
	Manufacturer:	Chongqing CosMX Battery Co.,Ltd	



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Report No.: SZCR241000395910

Page: 8 of 148

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1.1.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix D

Note:

- 1) The test device is a smart phone. The overall diagonal dimension of this device is 175mm. Per KDB 648474 D04, because the diagonal distance of this device is $\geq 160\text{mm}$, so it is a phablet.

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

Distance of the Antenna to the EUT surface/edge						
Mode	Front	Back	Left	Right	Top	Bottom
Ant0	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$
Ant1	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$
Ant3	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant4	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$
Ant5	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant6	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant7	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant10	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$

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

Note:

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

1.1.2 Smart Transmit feature for RF Exposure compliance

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

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

<Terminologies in this report>

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

<SAR Characterization>

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

SAR_design_target and Uncertainty

SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device design related uncertainties specified by the manufacturer.

$SAR_design_target < SAR_{regulatory_limit} \times 10^{(-total\ uncertainty)/10}$

Uncertainty dB(k=2)	All Band
Total uncertainty	1.2

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

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 11 of 148

Exposure position	Frequency band	SAR_Regulatory_Limit W/kg(1g)	SAR_design_target W/kg(1g)
Head	WWAN	1.6	1.2
Body worn	WWAN	1.6	1.2
Hotspot	WWAN	1.6	1.2

Exposure position	Frequency band	SAR_Regulatory_Limit W/kg(10g)	SAR_design_target W/kg(10g)
Product specific 10gSAR	WWAN	4.0	3.0

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

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

Plimit for supported technologies and bands (actual EFS settings)

Band	Mode	Antenna	Pmax*	Plimit (average)		
				Head	Body Worn	Hotspot
				DSI5(State5)	DSI3(State3)	DSI8(State8)
GSM 850	GPRS 4TS	0#	23.5	23.5	23.5	23.0
		1#	24.5	24.0	24.0	22.5
GSM 1900	GPRS 4TS	3#	21.5	18.5	21.5	20.0
		4#	21.5	21.5	21.5	20.5
WCDMA_B2	RMC	3#	24.0	18.0	20.0	18.0
	RMC	4#	24.0	24.0	20.5	19.0
WCDMA_B4	RMC	3#	24.0	18.0	21.5	19.5
	RMC	4#	24.0	24.0	21.0	19.5
WCDMA_B5	RMC	0#	22.8	22.8	22.3	20.8
	RMC	1#	24.0	22.5	22.0	20.5
LTE_B2	QPSK	3#	23.2	18.2	20.2	18.7
	QPSK	4#	23.2	23.2	20.7	19.2
	QPSK	5#	20.4	17.9	19.9	17.9
LTE_B4	QPSK	3#	24.2	18.2	21.7	19.7



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

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 12 of 148

	QPSK	4#	24.2	24.2	21.7	19.7
	QPSK	5#	23.0	22.0	22.5	20.5
LTE_B5	QPSK	0#	23.2	23.2	22.7	21.2
	QPSK	1#	24.2	22.2	22.2	20.7
LTE_B7	QPSK	3#	24.2	16.7	19.7	17.7
	QPSK	4#	24.2	24.2	22.2	20.2
	QPSK	5#	22.5	20.5	22.5	22.0
LTE_B12	QPSK	0#	23.7	23.7	23.7	23.7
	QPSK	1#	24.2	24.2	24.2	23.2
LTE_B13	QPSK	0#	23.2	23.2	23.2	21.7
	QPSK	1#	24.2	24.2	24.2	22.7
LTE_B17	QPSK	0#	23.7	23.7	23.7	23.7
	QPSK	1#	24.2	24.2	24.2	23.2
LTE_B26	QPSK	0#	23.2	23.2	23.2	21.7
	QPSK	1#	24.2	22.7	22.7	21.2
LTE_B66	QPSK	3#	24.2	18.2	21.7	19.7
	QPSK	4#	24.2	24.2	21.7	19.7
	QPSK	5#	23.0	22.0	22.5	20.5
LTE_B38	QPSK	3#	22.2	16.7	20.2	18.7
	QPSK	4#	22.2	22.2	22.2	20.7
	QPSK	5#	20.0	20.0	20.0	20.0
LTE_B41 PC2	QPSK	3#	21.9	16.4	21.4	19.4
	QPSK	4#	21.9	21.9	21.9	21.9
	QPSK	5#	19.4	19.4	19.4	19.4
LTE_B41 PC3	QPSK	3#	22.2	16.7	21.7	19.7
	QPSK	4#	22.2	22.2	22.2	22.2
	QPSK	5#	20.0	20.0	20.0	20.0
NR5G_N2	QPSK	0#	23.2	17.7	19.7	18.2
	QPSK	1#	23.2	23.2	20.2	18.7
NR5G_N5	QPSK	0#	23.2	23.2	22.7	21.2
	QPSK	1#	23.8	22.3	22.3	20.8
NR5G_N7	QPSK	3#	23.8	16.3	19.3	17.8
	QPSK	4#	23.8	23.8	22.3	20.8



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

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 13 of 148

	QPSK	5#	22.5	20.5	22.5	22.0
NR5G_N12	QPSK	0#	23.2	23.2	23.2	23.2
	QPSK	1#	23.8	23.8	23.8	22.8
NR5G_N26	QPSK	0#	23.2	23.2	23.2	21.7
	QPSK	1#	23.8	22.8	22.3	20.8
NR5G_N38	QPSK	3#	23.8	15.8	20.3	18.8
	QPSK	4#	23.8	23.8	23.3	21.3
	QPSK	5#	22.0	19.0	22.0	21.5
NR5G_N41 PC2	QPSK	3#	25.5	16.0	20.5	19.0
	QPSK	4#	25.5	25.5	23.5	21.5
	QPSK	5#	22.5	19.0	22.5	21.5
NR5G_N66	QPSK	3#	23.8	17.8	20.8	18.8
	QPSK	4#	23.8	23.8	20.8	18.8
	QPSK	5#	22.0	21.5	21.5	20.0
NR5G_N77	QPSK	5#	22.2	15.2	19.2	19.2
	QPSK	6#	19.0	12.0	14.0	12.0
	QPSK	7#	23.5	16.0	20.0	18.0
	QPSK	10#	20.5	17.0	18.5	16.5
NR5G_N78 PC2	QPSK	5#	25.0	15.2	19.2	19.2
	QPSK	6#	21.0	12.0	14.0	12.0
	QPSK	7#	26.0	16.0	20.0	18.0
	QPSK	10#	22.5	17.0	18.5	16.5

Note:

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

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



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1.1.3 Power reduction specification

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

- 1) This device uses the receiver to indicate whether the user is making a voice call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. A fixed level power reduction is applied for some frequency bands when the audio receiver is on.
- 2) A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions.
- 3) A fixed level power reduction is applied for some frequency bands when hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.

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

1.2 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D04	Interim General RF Exposure Guidance v01
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03



1.3 RF exposure limits

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

Notes:

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

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

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

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

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



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1.4 Test Location

All tests were performed at:

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No tests were sub-contracted.

1.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.



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

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 18 of 148

2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	



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3 SAR Measurements System Configuraion

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E_i|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

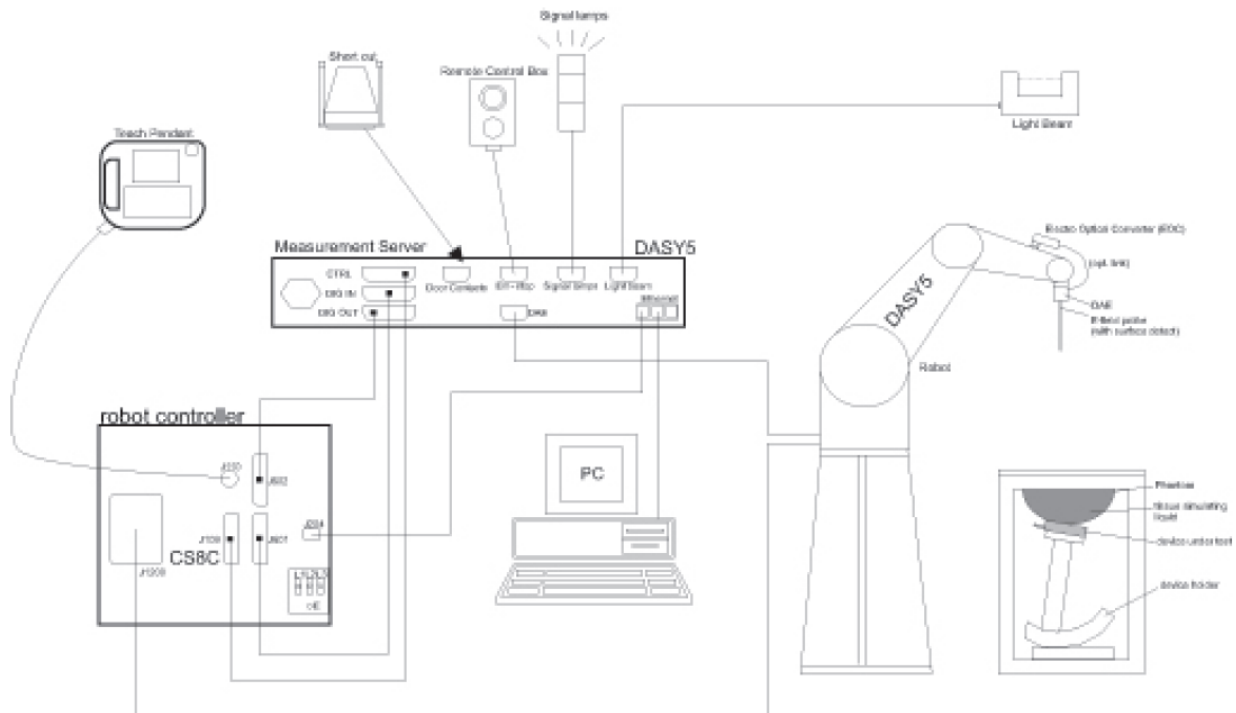
The DASY system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

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.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration

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

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 20 of 148

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



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3.2 Isotropic E-field Probe EX3DV4

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

3.3 Data Acquisition Electronics (DAE)

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

3.4 SAM Twin Phantom

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

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

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

3.5 ELI Phantom

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

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEEE 1528 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

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

3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

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

3.7 Measurement Procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

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



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

Step 4: Power reference measurement (drift)

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

3.7.2 Data storage

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

3.7.3 Data Evaluation by SEMCAD

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

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

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

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

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

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

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

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

cf = crest factor of exciting field (DASY parameter)

dcp I = diode compression point (DASY parameter)

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

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



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H-field probes:

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

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

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

[mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

E_i = electric field strength of channel i in V/m

H_i = magnetic field strength of channel i in A/m

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

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

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

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

with SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m

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

ϵ = equivalent tissue density in g/cm³

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

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

with P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

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

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4.2 SAR measurement uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.



5 Description of Test Position

5.1 The Head Test Position

5.1.1 SAM Phantom Shape

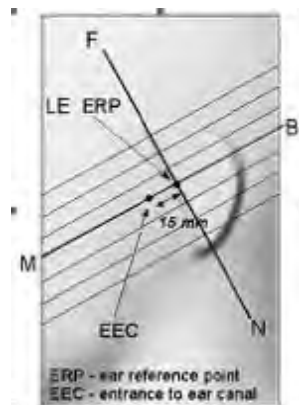


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

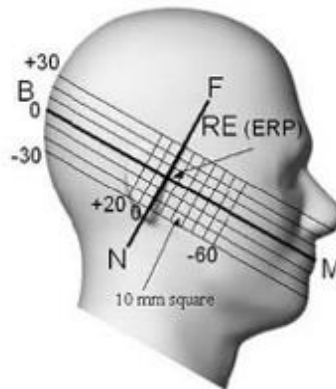
Note: The centre strip including the nose region has a different thickness tolerance.



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

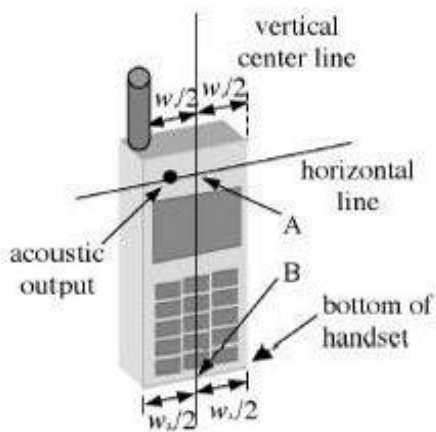


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

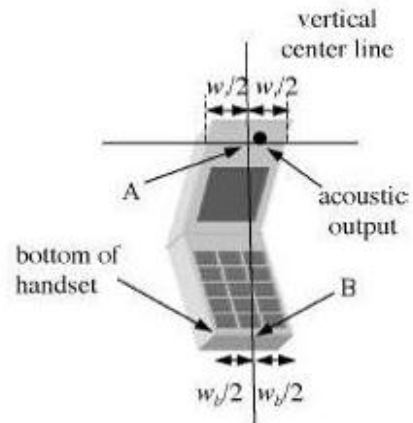


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



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



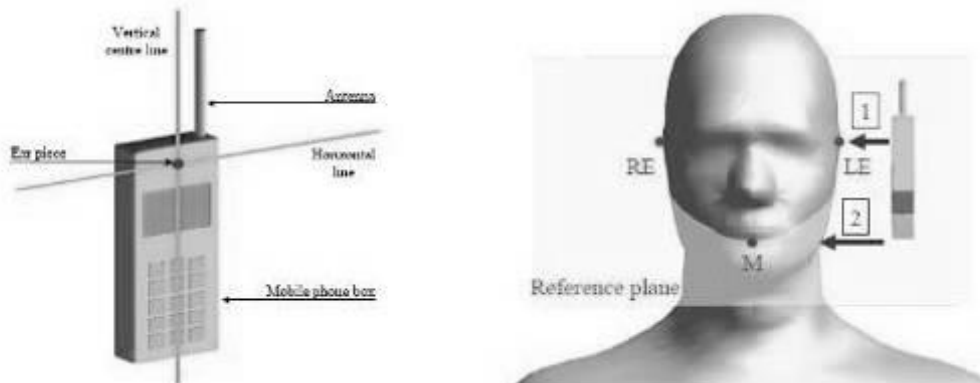
F-8.Handset vertical and horizontal reference lines-
“clam-shell case”

5.1.3 Definition of the “check” position

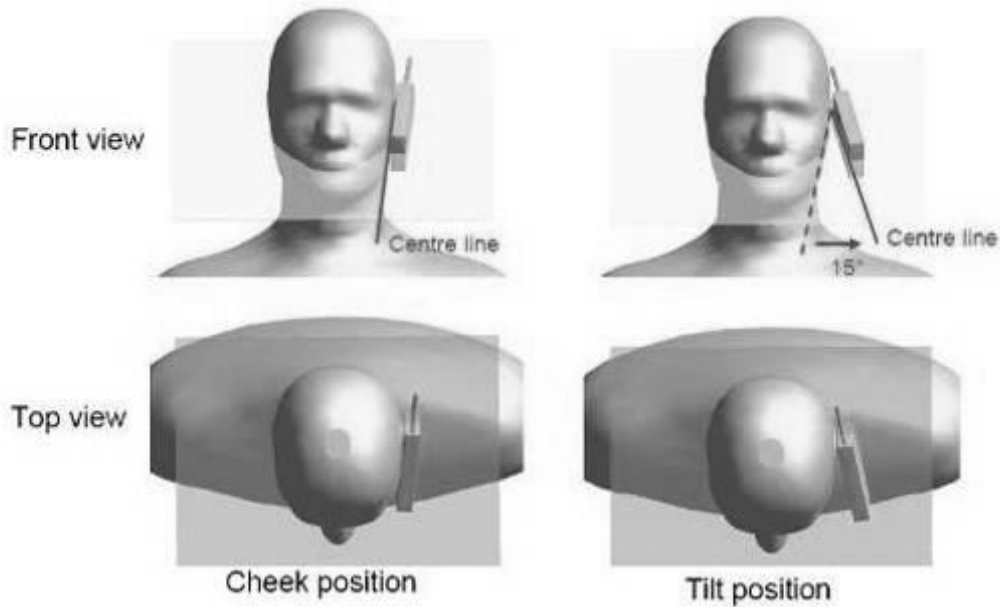
- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with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

5.1.4 Definition of the “tilted” position

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



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



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

5.2 The Body Test Position

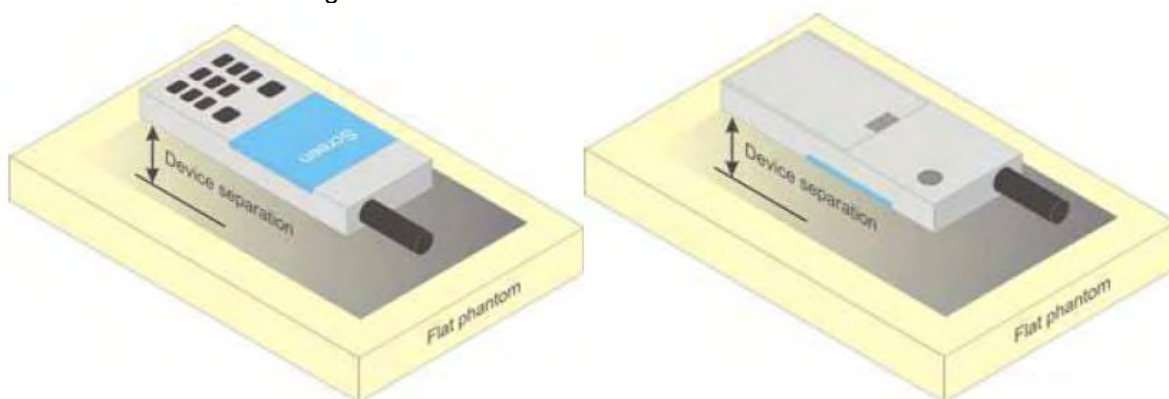
5.2.1 Body-worn accessory exposure conditions

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

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

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

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



F-11. Test positions for body-worn devices

5.2.2 Wireless Router exposure conditions

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

5.3 Extremity exposure conditions

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

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

GSM 850 Ant1:

GSM850 SAR Test Record											
Ant 1 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm) State 8											
Front side	GPRS 4TS	190/836.6	1:2.075	0.268	0.127	0.10	25.03	28.00	1.982	0.531	Yes
Back side	GPRS 4TS	190/836.6	1:2.075	0.406	0.236	0.14	25.03	28.00	1.982	0.804	Yes
Left side	GPRS 4TS	190/836.6	1:2.075	0.758	0.460	-0.08	25.03	28.00	1.982	1.502	No
Left side with Sample2	GPRS 4TS	190/836.6	1:2.075	0.727	0.446	-0.02	25.03	28.00	1.982	1.441	No
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.085	0.041	-0.07	25.03	28.00	1.982	0.168	Yes
Left side	GPRS 4TS	128/824.2	1:2.075	0.498	0.276	-0.03	24.63	28.00	2.173	1.082	Yes
Left side	GPRS 4TS	251/848.8	1:2.075	0.679	0.411	-0.11	25.08	28.00	1.959	1.330	No



6 SAR System Verificaion Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	450	700-1000	1700-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85
Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ+ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose					
HSL5GHz is composed of the following ingredients: (Manufactured by SPEAG) Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 2 : Recipe of Tissue Simulate Liquid

6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ϵ_r) are listed in Table 2. For the SAR measurement given in this report.

The temperature variation of the Tissue Simulate Liquids was $22 \pm 2^\circ\text{C}$.

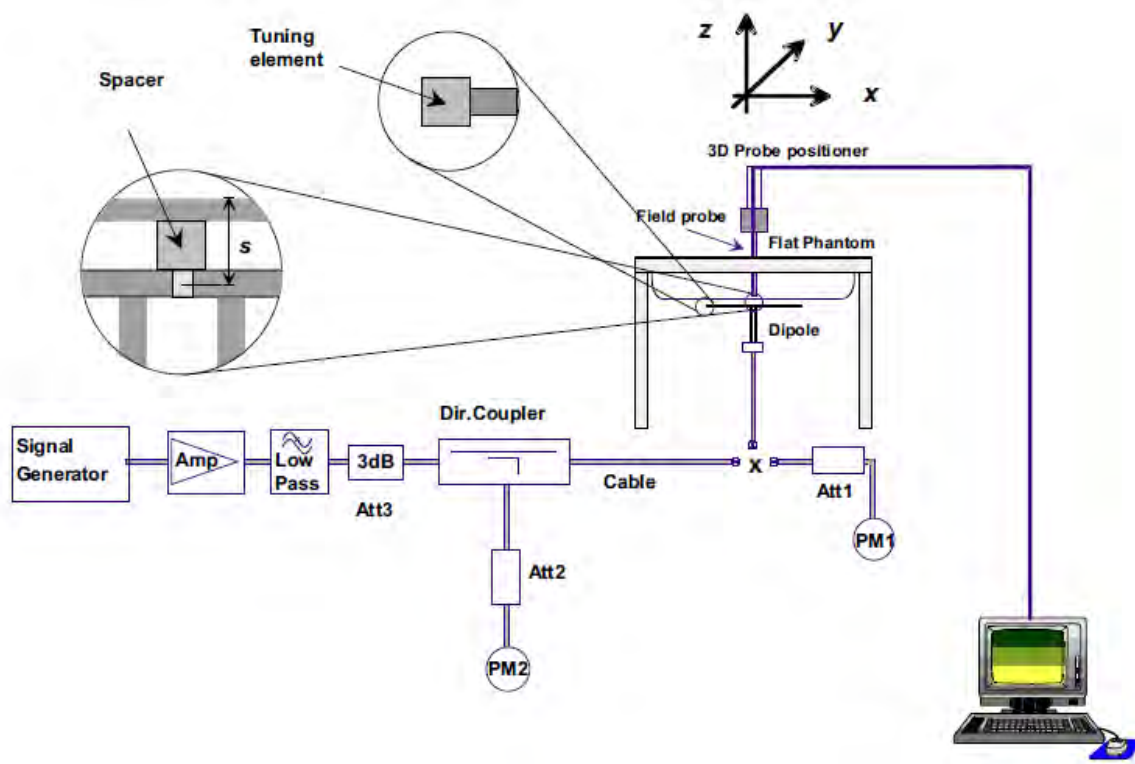
Measurement for Tissue Simulate Liquid									
Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue ($\pm 5\%$)		Deviation (Within $\pm 5\%$)		Liquid Temp. ($^\circ\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
750 Head	750	41.995	0.894	41.90	0.89	0.23%	0.47%	22.0	2024/12/1
750 Head	750	42.015	0.893	41.90	0.89	0.27%	0.34%	22.4	2024/12/6
835 Head	835	40.182	0.935	41.50	0.90	-3.18%	3.85%	22.2	2024/12/5
835 Head	835	41.476	0.920	41.50	0.90	-0.06%	2.17%	22.0	2024/12/9
1750 Head	1750	40.708	1.327	40.10	1.37	1.52%	-3.14%	22.1	2024/12/6
1750 Head	1750	40.631	1.333	40.10	1.37	1.32%	-2.70%	22.4	2024/12/10
1750 Head	1750	40.727	1.343	40.10	1.37	1.56%	-1.97%	22.3	2024/12/12
1900 Head	1900	40.675	1.418	40.00	1.40	1.69%	1.29%	22.2	2024/12/7
1900 Head	1900	40.394	1.375	40.00	1.40	0.98%	-1.76%	22.5	2024/12/8
1900 Head	1900	40.333	1.394	40.00	1.40	0.83%	-0.43%	22.1	2024/12/9
1900 Head	1900	40.417	1.391	40.00	1.40	1.04%	-0.64%	22.0	2024/12/11
2450 Head	2450	38.150	1.837	39.20	1.80	-2.68%	2.08%	22.2	2024/12/11
2600 Head	2600	39.338	1.924	39.00	1.96	0.87%	-1.84%	22.0	2024/12/10
2600 Head	2600	39.108	1.911	39.00	1.96	0.28%	-2.50%	22.0	2024/12/14
2600 Head	2600	38.279	2.040	39.00	1.96	-1.85%	4.08%	22.3	2024/12/15
2600 Head	2600	39.570	1.950	39.00	1.96	1.46%	-0.51%	22.2	2024/12/16
3500 Head	3500	37.995	2.887	37.90	2.91	0.25%	-0.79%	22.1	2024/12/8
3700 Head	3700	37.366	3.097	37.70	3.12	-0.89%	-0.74%	22.3	2024/12/9
3900 Head	3900	36.656	3.312	37.50	3.32	-2.25%	-0.24%	22.3	2024/12/10
5250 Head	5250	37.413	4.645	35.90	4.66	4.21%	-0.32%	22.2	2024/12/12
5600 Head	5600	37.012	4.976	35.50	5.07	4.26%	-1.85%	22.0	2024/12/13
5750 Head	5750	36.673	5.239	35.40	5.22	3.60%	0.36%	22.1	2024/12/14

Table 3 : Measurement result of Tissue electric parameters



6.2 SAR System Check

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



F-12.The microwave circuit arrangement used for SAR system Check

6.2.1 Justification for Extended SAR Dipole Calibrations

1) According to KDB 865664 D01 instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 20% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.

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



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 40 of 148

6.2.2 Summary System Check Result(s)

SAR System Validation Result(s)											
Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)		
D750V3	Head	2.23	1.47	8.92	5.88	8.37	5.53	6.57%	6.33%	22.0	2024/12/1
D750V3	Head	2.16	1.46	8.64	5.84	8.37	5.53	3.23%	5.61%	22.4	2024/12/6
D835V2	Head	2.56	1.66	10.24	6.64	9.53	6.29	7.45%	5.56%	22.2	2024/12/5
D835V2	Head	2.41	1.55	9.64	6.20	9.53	6.29	1.15%	-1.43%	22.0	2024/12/9
D1750V2	Head	9.09	4.96	36.36	19.84	36.60	19.30	-0.66%	2.80%	22.1	2024/12/6
D1750V2	Head	9.12	4.99	36.48	19.96	36.60	19.30	-0.33%	3.42%	22.4	2024/12/10
D1750V2	Head	8.97	4.90	35.88	19.60	36.60	19.30	-1.97%	1.55%	22.3	2024/12/12
D1900V2	Head	9.68	5.07	38.72	20.28	39.50	20.60	-1.97%	-1.55%	22.2	2024/12/7
D1900V2	Head	9.39	4.92	37.56	19.68	39.50	20.60	-4.91%	-4.47%	22.5	2024/12/8
D1900V2	Head	9.33	4.89	37.32	19.56	39.50	20.60	-5.52%	-5.05%	22.1	2024/12/9
D1900V2	Head	9.34	4.91	37.36	19.64	39.50	20.60	-5.42%	-4.66%	22.0	2024/12/11
D2450V2	Head	13.30	6.24	53.20	24.96	52.20	24.30	1.92%	2.72%	22.2	2024/12/11
D2600V2	Head	14.00	6.24	56.00	24.96	57.70	25.80	-2.95%	-3.26%	22.0	2024/12/10
D2600V2	Head	14.30	6.36	57.20	25.44	57.70	25.80	-0.87%	-1.40%	22.0	2024/12/14
D2600V2	Head	13.80	6.24	55.20	24.96	57.70	25.80	-4.33%	-3.26%	22.3	2024/12/15
D2600V2	Head	14.60	6.65	58.40	26.60	57.70	25.80	1.21%	3.10%	22.2	2024/12/16
Validation Kit		Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)		
D3500V2	Head(3.5GHz)	7.10	2.71	71.00	27.10	65.80	25.70	7.90%	5.45%	22.1	2024/12/8
D3700V2	Head(3.7GHz)	6.58	2.43	65.80	24.30	66.10	24.70	-0.45%	-1.62%	22.3	2024/12/9
D3900V2	Head(3.9GHz)	7.01	2.46	70.10	24.60	66.70	23.80	5.10%	3.36%	22.3	2024/12/10
D5GHzV2	Head(5.25GHz)	7.96	2.29	79.60	22.90	77.30	22.10	2.98%	3.62%	22.2	2024/12/12
	Head(5.6GHz)	7.85	2.23	78.50	22.30	81.30	23.10	-3.44%	-3.46%	22.0	2024/12/13
	Head(5.75GHz)	7.19	2.07	71.90	20.70	77.10	21.30	-6.74%	-2.82%	22.1	2024/12/14

Table 4 : SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

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

7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using Radio Communication Analyzer, the power lever is set to “5” and “0” in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 33 for this EUT, it has at most 4 timeslots in uplink and at most 5 timeslots in downlink, the maximum total timeslot is 6. The EGPRS class is 33 for this EUT, it has at most 4 timeslots in uplink, and at most 5 timeslots in downlink, the maximum total timeslot is 6.

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

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

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

7.2.2 WCDMA Test Configuration

1) . Output Power Verification

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

2) . Head SAR



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 42 of 148

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

3) . Body SAR

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

4) . HSDPA / HSUPA

RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power for production units in HSDPA / HSUPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest measured SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.5 W/kg, SAR measurement is not required for HSDPA / HSUPA.

a) HSDPA

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

Sub-test	β_c	Bd	β_d (SF)	β_c/β_d	β_{hs}	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8$ Ahs = $\beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 8$ (Ahs=30/15) with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 7$ (Ahs=24/15) with $\beta_{hs} = 24/15 * \beta_c$.

Note3: 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.



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 43 of 148

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

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

Table 5 : settings of required H-Set 1 QPSK acc. to 3GPP 34.121

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

Table 6 : HSDPA UE category

b) HSUPA

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



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 44 of 148

Sub-test ^o	β_c ^o	β_d ^o	β_d (SF) ^o	β_c/β_d ^o	β_{hs} ⁽¹⁾ ^o	β_{ac} ^o	β_{ad} ^o	β_c (SF) ^o	β_{ad} (code) ^o	CM ⁽²⁾ (dB) ^o	MP R ^o (dB) ^o	AG ⁽⁴⁾ Index ^o	E-TFC I ^o
1 ^o	11/15 ⁽³⁾ ^o	15/15 ⁽³⁾ ^o	64 ^o	11/15 ⁽³⁾ ^o	22/15 ^o	209/225 ^o	1039/225 ^o	4 ^o	1 ^o	1.0 ^o	0.0 ^o	20 ^o	75 ^o
2 ^o	6/15 ^o	15/15 ^o	64 ^o	6/15 ^o	12/15 ^o	12/15 ^o	94/75 ^o	4 ^o	1 ^o	3.0 ^o	2.0 ^o	12 ^o	67 ^o
3 ^o	15/15 ^o	9/15 ^o	64 ^o	15/9 ^o	30/15 ^o	30/15 ^o	β_{ad1} :47/15 ^o β_{ad2} :47/15 ^o	4 ^o	2 ^o	2.0 ^o	1.0 ^o	15 ^o	92 ^o
4 ^o	2/15 ^o	15/15 ^o	64 ^o	2/15 ^o	4/15 ^o	2/15 ^o	56/75 ^o	4 ^o	1 ^o	3.0 ^o	2.0 ^o	17 ^o	71 ^o
5 ^o	15/15 ⁽⁴⁾ ^o	15/15 ⁽⁴⁾ ^o	64 ^o	15/15 ⁽⁴⁾ ^o	30/15 ^o	24/15 ^o	134/15 ^o	4 ^o	1 ^o	1.0 ^o	0.0 ^o	21 ^o	81 ^o

Note 1: Δ ACK, Δ NACK and Δ CQI=8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
 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^o
 Note 3: For subtest 1 the β_c/β_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 $\beta_d = 15/15$ ^o
 Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$ ^o
 Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g^o
 Note 6: β_{ad} can not be set directly; it is set by Absolute Grant Value.^o

Table 7 : Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Spreading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	1.4592
	2	4	10	4	14484	
3	2	4	10	4	14484	1.4592
4	2	8	2	2	5772	2.9185
	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6 (No DPDCH)	4	8	10	2SF2&2SF	11484	5.76
	4	4	2	4	20000	2.00
7 (No DPDCH)	4	8	2	2SF2&2SF	22996	?
	4	4	10	4	20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4. UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM. (TS25.306-7.3.0).

Table 8 : HSUPA UE category

c) DC-HSDPA

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



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 45 of 148

to perform the power measurement and for the results to be acceptable.

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0.

A summary of these settings are illustrated below:

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

Table E.5.0: Levels for HSDPA connection setup

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

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

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

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

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

Table 9 : settings of required H-Set 12 QPSK acc. To 3GPP 34.121

Note:

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

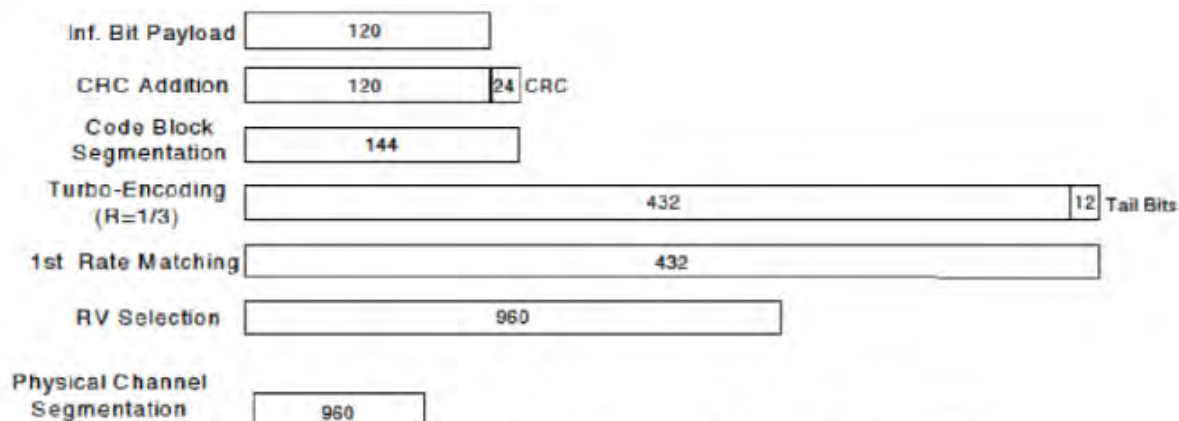


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 46 of 148

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

Sub-test ^o	β_c ^o	β_d ^o	$\beta_d \cdot (SF)$ ^o	β_c / β_d ^o	$\beta_{hs}(1)$ ^o	CM(dB)(2) ^o	MPR (dB) ^o
1 ^o	2/15 ^o	15/15 ^o	64 ^o	2/15 ^o	4/15 ^o	0.0 ^o	0 ^o
2 ^o	12/15(3) ^o	15/15(3) ^o	64 ^o	12/15(3) ^o	24/15 ^o	1.0 ^o	0 ^o
3 ^o	15/15 ^o	8/15 ^o	64 ^o	15/8 ^o	30/15 ^o	1.5 ^o	0.5 ^o
4 ^o	15/15 ^o	4/15 ^o	64 ^o	15/4 ^o	30/15 ^o	1.5 ^o	0.5 ^o

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI=8$ $A_{hs} = \beta_{hs} / \beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
 Note 2: CM=1 for $\beta_c / \beta_d = 12/15$, $\beta_{hs} / \beta_c = 24/15$. For all other combinations of DPDCH, DPCCH 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 3: For subtest 2 the β_c / β_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, TF0) to $\beta_c = 11/15$ and $\beta_d = 15/15$

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

Note:

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



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 47 of 148

d) HSPA+

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

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

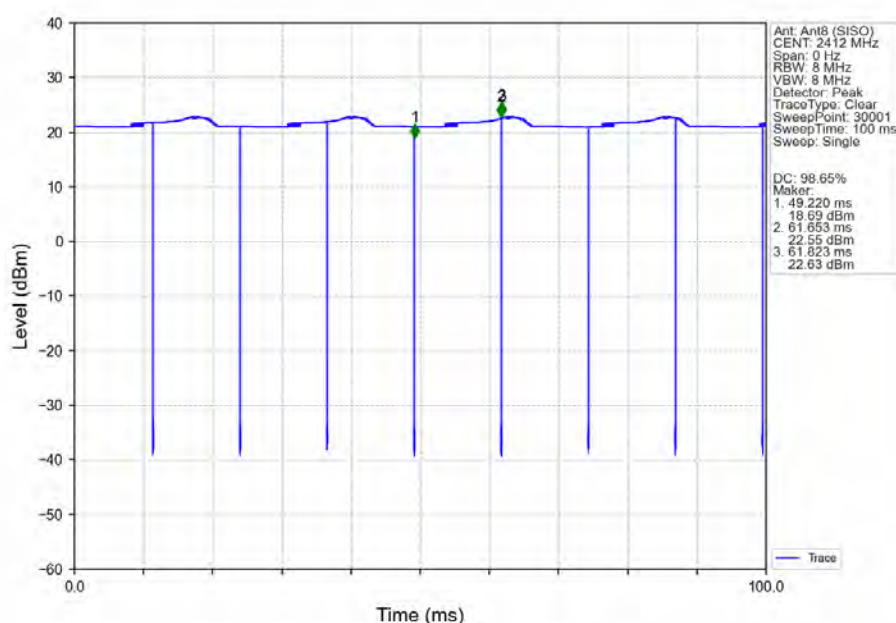
Sub-test	β_{c} (Note3)	β_{d}	β_{HS} (Note1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105
Note 1: $\Delta_{\text{ACK}}, \Delta_{\text{NACK}}$ and $\Delta_{\text{CQI}} = 30/15$ with $\beta_{\text{HS}} = 30/15 * \beta_{\text{c}}$ Note 2: CM = 3.5 and the MPR is based on the relative CM difference, $\text{MPR} = \text{MAX}(\text{CM}-1, 0)$. Note 3: DPDCH is not configured, therefore the β_{c} is set to 1 and $\beta_{\text{d}} = 0$ by default. Note 4: β_{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.											

7.2.3 WIFI Test Configuration

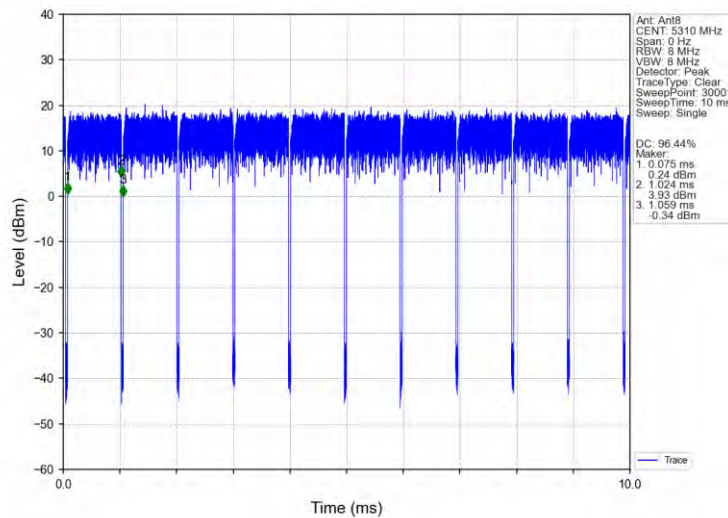
A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.2.3.1 Duty cycle

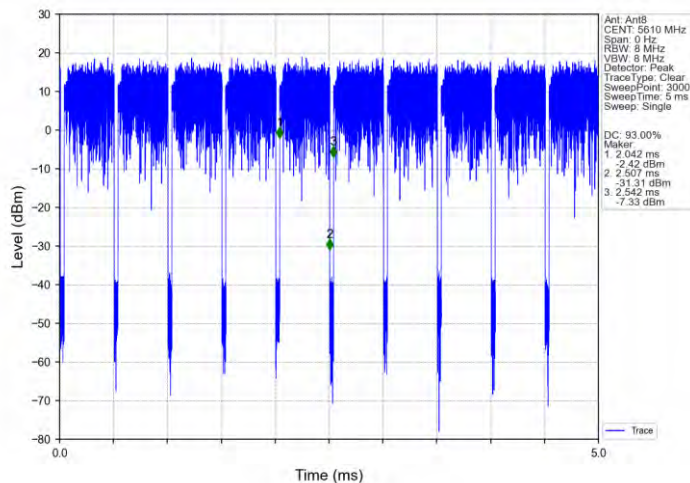
1) Wi-Fi 2.4GHz 802.11b: Duty cycle=98.65%



2) Wi-Fi 5GHz 802.11n40:Duty cycle=96.44%



3) Wi-Fi 5GHz 802.11ac80:Duty cycle=93.00 %



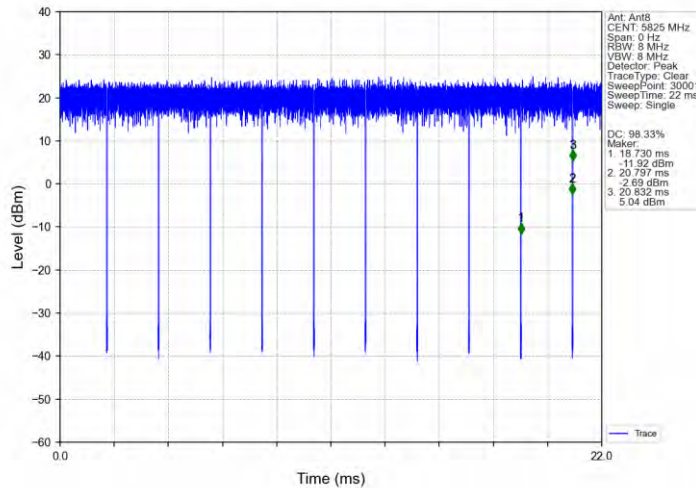
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4) Wi-Fi 5GHz 802.11a:Duty cycle=98.33%



7.2.3.2 Initial Test Position SAR Test Reduction Procedure

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

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



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7.2.3.3 Subsequent Test Configuration Procedures

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

- 1) . When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- 2) . When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- 3) . The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - a) SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
 - b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the reported SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
 - a) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
 - b) replace "initial test configuration" with "all tested higher output power configurations"



7.2.3.4 2.4 GHz WiFi SAR Procedures

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

• 802.11b DSSS SAR Test Requirements

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

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

• 2.4 GHz 802.11g/n/ac OFDM SAR Test Exclusion Requirements

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

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

• SAR Test Requirements for OFDM configurations

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

7.2.3.5 5 GHz WiFi SAR Procedures

• U-NII-1 and U-NII-2A Bands

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

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

• U-NII-2C and U-NII-3 Bands

The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction does not apply, all channels that operate at 5.60 – 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

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



OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

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

- 1) The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- 2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- 4) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
 - a) The channel closest to mid-band frequency is selected for SAR measurement.
 - b) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

• SAR Test Requirements for OFDM configurations

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



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7.2.4 LTE Test Configuration

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

TDD LTE test consideration

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

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

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

Frame structure type 2:

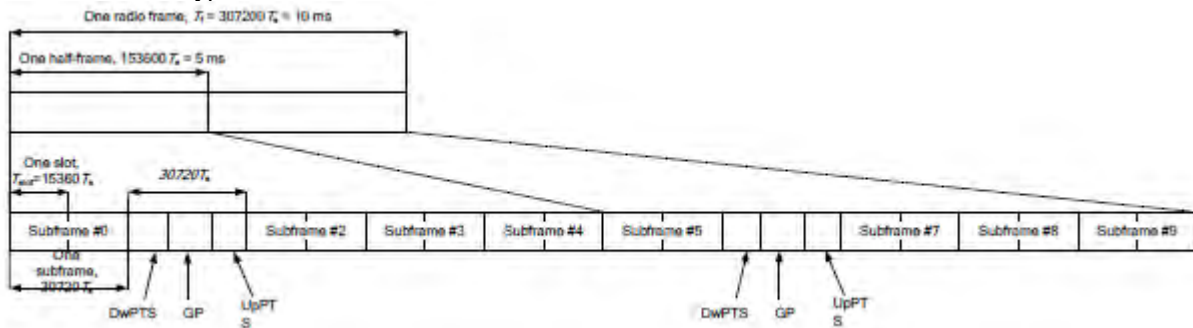


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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

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

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 57 of 148

7	21952.Ts			25600.Ts		
8	24144.Ts			-	-	-
9	13168.Ts			-	-	-

Table 4.2-2: Uplink-downlink configurations.

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

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

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

A) Spectrum Plots for RB Configurations

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



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

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 58 of 148

B) MPR

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

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

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ 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.



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F) LTE CA additional specification

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

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

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

Downlink LTE CA
CA_5A-5A
CA_5B
CA_2A-2A
CA_2A-4A
CA_2A-7A
CA_2A-66A
CA_2A-38A
CA_4A-4A
CA_4A-7A
CA_7A-7A
CA_7A-66A
CA_66A-66A
CA_66B
CA_38C
CA_41C
CA_66C
CA_2A-4A
CA_2A-7A
CA_2A-66A
CA_2A-38A
CA_2A-4A-7A
CA_2A-7A-7A
CA_2A-7A-66A
CA_4A-4A-7A
CA_4A-7C
CA_7A-66A-66A
Uplink LTE CA
CA_7C
CA_38C
CA_41C
CA_66C



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 60 of 148

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

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

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

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

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

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

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

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

6)General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. All LTE bandwidth conducted powers needed for PCC uplink configuration selection can be found in appendix E. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.

- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.

All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.



DL CA Power Measurement Setup



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 61 of 148

c) Inter-band carrier aggregation requirements for uplink.

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

The Inter band Uplink CA as below table:

LTE Band/Antenna		B5		B7			B12		B13		B66		
		Ant0	Ant1	Ant3	Ant4	Ant5	Ant0	Ant1	Ant0	Ant1	Ant3	Ant4	Ant5
B2	Ant3											√	
	Ant4												
	Ant5											√	
B4	Ant3	√	√		√	√	√	√	√	√			
	Ant4	√	√	√		√	√	√	√	√			
	Ant5	√	√	√	√		√	√	√	√			
B5	Ant0			√	√	√					√	√	√
	Ant1			√	√	√					√	√	√
B12	Ant0										√	√	√
	Ant1										√	√	√
B13	Ant0										√	√	√
	Ant1										√	√	√



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7.2.5 NR Band Test Configuration

1. NR Band n2/5/7/12/26/38/41/66/77/78 support SA mode and n5/n7/n38/n41/n66/n77/n78 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Band/Antenna		LTE Band 2			LTE Band 4			LTE Band 5		LTE Band 7			LTE Band 12		LTE Band 13		LTE Band 26		LTE Band 38			LTE Band 41			LTE Band 66		
		Ant3	Ant4	Ant5	Ant3	Ant4	Ant5	Ant0	Ant1	Ant3	Ant4	Ant5	Ant0	Ant1	Ant0	Ant1	Ant0	Ant1	Ant3	Ant4	Ant5	Ant3	Ant4	Ant5	Ant3	Ant4	Ant5
n5	ANT0									✓	✓	✓												✓	✓	✓	
	ANT1									✓	✓	✓												✓	✓	✓	
n7	ANT3					✓	✓	✓	✓																✓	✓	
	ANT4	✓		✓	✓		✓	✓	✓															✓		✓	
	ANT5				✓	✓		✓	✓															✓	✓		
n38	ANT3					✓	✓	✓	✓																✓	✓	
	ANT4	✓		✓	✓		✓	✓	✓															✓		✓	
	ANT5				✓	✓		✓	✓															✓	✓		
n41	ANT3					✓	✓										✓	✓							✓	✓	
	ANT4	✓		✓	✓		✓										✓	✓						✓		✓	
	ANT5				✓	✓											✓	✓						✓	✓		
n66	ANT3						✓	✓		✓	✓	✓	✓	✓	✓												
	ANT4	✓		✓			✓	✓	✓		✓	✓	✓	✓	✓												
	ANT5						✓	✓	✓	✓		✓	✓	✓	✓												
n77	ANT5	✓	✓				✓	✓	✓	✓		✓	✓	✓	✓									✓	✓		
	ANT6	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓									✓	✓	✓	
	ANT7	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓									✓	✓	✓	
	ANT10	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓									✓	✓	✓	
n78	ANT5	✓	✓		✓	✓		✓	✓	✓	✓					✓	✓	✓	✓		✓	✓		✓	✓		
	ANT6	✓	✓		✓	✓	✓	✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	ANT7	✓	✓		✓	✓	✓	✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	ANT10	✓	✓		✓	✓	✓	✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

2. NR Inter-band carrier aggregation for uplink.

NR Band/Antenna		N7			N66			N77				N78			
		ANT3	ANT4	ANT5	ANT3	ANT4	ANT5	ANT7	ANT10	ANT5	ANT6	ANT7	ANT10	ANT5	ANT6
N7	ANT3											√	√	√	√
	ANT4											√	√	√	√
	ANT5											√	√		√
N5	Ant0	√	√	√	√	√	√	√	√	√	√	√	√	√	√
	Ant1	√	√	√	√	√	√	√	√	√	√	√	√	√	√

For Inter-band uplink CA mode, Qualcomm Smart Transmit algorithm in WWAN directly adds the time-averaged RF exposure from 5G(NR) and time-averaged RF exposure from another 5G(NR). Smart Transmit algorithm controls the total RF exposure of Inter-band uplink CA to not exceed FCC limit.

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

Band		n2	n5	n7	n12	n26	n38	n41	n66	n77	n78
NR mode		SA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		NSA	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes
Modulation	DFT-s-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Duty Cycle		100%	100%	100%	100%	100%	100%	100%	100%	100%	

Band	SCS	Bandwidth												
		5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz	70MHz	80MHz	90MHz	100MHz
n2	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n5	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n7	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n12	15 kHz	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n26	15 kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n38	15 kHz	N/A	Yes	Yes	Yes	N/A	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n41	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n66	15 kHz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n77	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n78	15 kHz	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30 kHz	N/A	N/A	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 64 of 148

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

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



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 65 of 148

4. MPR

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

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

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

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

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

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

1) For 5G NR NSA mode with the same UL EN_DC combination but different DL EN_DC combinations, eg: EN-DC configuration: UL DC_7A_n5 (UL two bands) with DL DC_7C_n5 (DL two bands)

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

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

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



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7.2.6 DSDA Test Configuration

Dual Sim Dual Access (DSDA) scenario requires simultaneous connections on two separate cellular subscriptions. As each cellular subscription requires one SIM card, this test will require using 2 SIM cards and 2 call boxes, one for each connection. For DSDA mode, Qualcomm Smart Transmit algorithm in WWAN directly adds the time-averaged RF exposure from SIM1 and time-averaged RF exposure from SIM2. Smart Transmit algorithm controls the total RF exposure from both SIM1 and SIM2 to not exceed regulatory limit.

The DSDA combination as below table:

Band/Antenna		LTE Band 5		LTE Band 41			n41		
		Ant0	Ant1	ANT3	ANT4	ANT5	ANT3	ANT4	ANT5
n41	ANT3	√	√						
	ANT4	√	√						
	ANT5	√	√						
n77	ANT5						√	√	
	ANT6						√	√	√
	ANT7						√	√	√
	ANT10						√	√	√
n78	ANT5	√	√	√	√		√	√	
	ANT6	√	√	√	√	√	√	√	√
	ANT7	√	√	√	√	√	√	√	√
	ANT10	√	√	√	√	√	√	√	√

8 Test Result

8.1 Measurement of RF Conducted Power

The detailed conducted power can be referred to Appendix E.

Note:

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

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

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:

$$\text{Frame-averaged power} = 10 \times \log (\text{Burst-averaged power mW} \times \text{Slot used} / 8).$$

- 3) . When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.
- 4) . According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 5) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 6) . Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.
- 7) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than $\frac{1}{4}$ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

The conducted power measurement results of downlink LTE CA Conducted Power are as Appendix E conducted RF output power, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.

- 8) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured. Power



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 68 of 148

measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

- 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
- 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.



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8.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D04, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.

WiFi 2.4G:

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

WiFi 5G:

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

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



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 70 of 148

8.2.1 SAR Result of GSM850

GSM850 SAR Test Record											
Ant 0 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data State 5											
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.528	0.293	-0.01	26.36	27.50	1.300	0.686	22.5
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.194	0.116	-0.17	26.36	27.50	1.300	0.252	22.5
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.669	0.345	-0.09	26.36	27.50	1.300	0.870	22.5
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.171	0.118	0.00	26.36	27.50	1.300	0.222	22.5
Right cheek	GPRS 4TS	128/824.2	1:2.075	0.542	0.288	0.19	26.27	27.50	1.327	0.719	22.5
Right cheek	GPRS 4TS	251/848.8	1:2.075	0.724	0.370	0.08	26.79	27.50	1.178	0.853	22.5
Body worn Test data(Separate 15mm) State 3											
Front side	GPRS 4TS	190/836.6	1:2.075	0.238	0.155	-0.14	26.36	27.50	1.300	0.309	22.5
Back side	GPRS 4TS	190/836.6	1:2.075	0.303	0.194	-0.11	26.36	27.50	1.300	0.394	22.5
Hotspot Test data(Separate 10mm) State 8											
Front side	GPRS 4TS	190/836.6	1:2.075	0.259	0.160	-0.01	25.12	27.00	1.542	0.399	22.5
Back side	GPRS 4TS	190/836.6	1:2.075	0.343	0.209	-0.05	25.12	27.00	1.542	0.529	22.5
Right side	GPRS 4TS	190/836.6	1:2.075	0.559	0.319	-0.07	25.12	27.00	1.542	0.862	22.5
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.060	0.030	-0.16	25.12	27.00	1.542	0.093	22.5
Right side	GPRS 4TS	128/824.2	1:2.075	0.523	0.300	-0.05	25.23	27.00	1.503	0.786	22.5
Right side	GPRS 4TS	251/848.8	1:2.075	0.682	0.434	-0.02	25.61	27.00	1.377	0.939	22.5
Ant 1 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data State 5											
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.638	0.350	0.00	26.23	28.00	1.503	0.959	22.5
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.167	0.115	0.18	26.23	28.00	1.503	0.251	22.5
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.603	0.327	-0.13	26.23	28.00	1.503	0.906	22.5
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.192	0.123	-0.10	26.23	28.00	1.503	0.289	22.5
Left cheek	GPRS 4TS	128/824.2	1:2.075	0.468	0.257	0.02	26.23	28.00	1.503	0.703	22.5
Left cheek	GPRS 4TS	251/848.8	1:2.075	0.749	0.416	-0.02	26.54	28.00	1.400	1.048	22.5
Left cheek with Sample2	GPRS 4TS	251/848.8	1:2.075	0.725	0.403	-0.06	26.54	28.00	1.400	1.015	22.5
Right cheek	GPRS 4TS	128/824.2	1:2.075	0.482	0.263	-0.09	26.23	28.00	1.503	0.725	22.5
Right cheek	GPRS 4TS	251/848.8	1:2.075	0.634	0.362	0.07	26.54	28.00	1.400	0.887	22.5
Head Test Data State 10											
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.638	0.350	0.00	26.23	27.00	1.194	0.762	22.5
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.167	0.115	0.18	26.23	27.00	1.194	0.199	22.5
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.603	0.327	-0.13	26.23	27.00	1.194	0.720	22.5
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.192	0.123	-0.10	26.23	27.00	1.194	0.229	22.5
Left cheek	GPRS 4TS	128/824.2	1:2.075	0.468	0.257	0.02	26.23	27.00	1.194	0.559	22.5
Left cheek	GPRS 4TS	251/848.8	1:2.075	0.749	0.416	-0.02	26.54	27.00	1.112	0.833	22.5



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 71 of 148

Left cheek with Sample2	GPRS 4TS	251/848.8	1:2.075	0.725	0.403	-0.06	26.54	27.00	1.112	0.806	22.5
Right cheek	GPRS 4TS	128/824.2	1:2.075	0.482	0.263	-0.09	26.23	27.00	1.194	0.576	22.5
Right cheek	GPRS 4TS	251/848.8	1:2.075	0.634	0.362	0.07	26.54	27.00	1.112	0.705	22.5
Body worn Test data(Separate 15mm) State 3											
Front side	GPRS 4TS	190/836.6	1:2.075	0.238	0.138	-0.16	26.23	28.00	1.503	0.358	22.5
Back side	GPRS 4TS	190/836.6	1:2.075	0.338	0.223	0.08	26.23	28.00	1.503	0.508	22.5
Back side with Sample2	GPRS 4TS	190/836.6	1:2.075	0.324	0.217	0.03	26.23	28.00	1.503	0.487	22.5
Hotspot Test data(Separate 10mm) State 8											
Front side	GPRS 4TS	190/836.6	1:2.075	0.268	0.127	0.10	25.03	26.50	1.403	0.376	22.5
Back side	GPRS 4TS	190/836.6	1:2.075	0.406	0.236	0.14	25.03	26.50	1.403	0.570	22.5
Left side	GPRS 4TS	190/836.6	1:2.075	0.758	0.460	-0.08	25.03	26.50	1.403	1.063	22.5
Left side with Sample2	GPRS 4TS	190/836.6	1:2.075	0.727	0.446	-0.02	25.03	26.50	1.403	1.020	22.5
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.085	0.041	-0.07	25.03	26.50	1.403	0.119	22.5
Left side	GPRS 4TS	128/824.2	1:2.075	0.498	0.276	-0.03	24.63	26.50	1.538	0.766	22.5
Left side	GPRS 4TS	251/848.8	1:2.075	0.679	0.411	-0.11	25.08	26.50	1.387	0.942	22.5
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm) State 3											
Left side	GPRS 4TS	190/836.6	1:2.075	2.660	1.400	-0.03	26.23	28.00	1.503	2.104	22.5
Left side with Sample2	GPRS 4TS	190/836.6	1:2.075	2.390	1.280	-0.07	26.23	28.00	1.503	1.924	22.5
Left side	GPRS 4TS	128/824.2	1:2.075	2.210	1.230	-0.10	26.23	28.00	1.503	1.849	22.5
Left side	GPRS 4TS	251/848.8	1:2.075	2.020	0.957	0.09	26.54	28.00	1.400	1.339	22.5



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 72 of 148

8.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record											
Ant 3 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data State 5											
Left cheek	GPRS 4TS	661/1880	1:2.075	0.338	0.214	0.11	20.76	22.50	1.493	0.505	22.0
Left tilted	GPRS 4TS	661/1880	1:2.075	0.364	0.219	0.09	20.76	22.50	1.493	0.543	22.0
Right cheek	GPRS 4TS	661/1880	1:2.075	0.564	0.297	-0.05	20.76	22.50	1.493	0.842	22.0
Right tilted	GPRS 4TS	661/1880	1:2.075	0.524	0.261	-0.18	20.76	22.50	1.493	0.782	22.0
Right cheek	GPRS 4TS	512/1850.2	1:2.075	0.561	0.304	0.12	20.70	22.50	1.514	0.849	22.0
Right cheek with Sample2	GPRS 4TS	512/1850.2	1:2.075	0.543	0.298	0.10	20.70	22.50	1.514	0.822	22.0
Right cheek	GPRS 4TS	810/1909.8	1:2.075	0.523	0.261	-0.02	20.80	22.50	1.479	0.774	22.0
Body worn Test data(Separate 15mm) State 3											
Front side	GPRS 4TS	661/1880	1:2.075	0.096	0.057	0.10	23.99	25.50	1.416	0.136	22.5
Back side	GPRS 4TS	661/1880	1:2.075	0.253	0.150	-0.11	23.99	25.50	1.416	0.358	22.5
Back side with Sample2	GPRS 4TS	661/1880	1:2.075	0.241	0.146	-0.16	23.99	25.50	1.416	0.341	22.5
Hotspot Test data(Separate 10mm) State 8											
Front side	GPRS 4TS	661/1880	1:2.075	0.130	0.079	0.01	22.15	24.00	1.531	0.199	22.5
Back side	GPRS 4TS	661/1880	1:2.075	0.234	0.134	0.15	22.15	24.00	1.531	0.358	22.5
Left side	GPRS 4TS	661/1880	1:2.075	0.104	0.053	-0.03	22.15	24.00	1.531	0.159	22.5
Top side	GPRS 4TS	661/1880	1:2.075	0.306	0.161	-0.18	22.15	24.00	1.531	0.469	22.5
Ant 4 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data State 5											
Left cheek	GPRS 4TS	661/1880	1:2.075	0.073	0.046	-0.05	24.75	25.50	1.189	0.087	22.0
Left tilted	GPRS 4TS	661/1880	1:2.075	0.051	0.032	-0.11	24.75	25.50	1.189	0.061	22.0
Right cheek	GPRS 4TS	661/1880	1:2.075	0.063	0.039	-0.15	24.75	25.50	1.189	0.075	22.0
Right tilted	GPRS 4TS	661/1880	1:2.075	0.053	0.031	-0.07	24.75	25.50	1.189	0.063	22.0
Body worn Test data(Separate 15mm) State 3											
Front side	GPRS 4TS	661/1880	1:2.075	0.101	0.057	-0.02	24.75	25.50	1.189	0.120	22.5
Back side	GPRS 4TS	661/1880	1:2.075	0.118	0.070	0.02	24.75	25.50	1.189	0.140	22.5
Hotspot Test data(Separate 10mm) State 8											
Front side	GPRS 4TS	661/1880	1:2.075	0.212	0.109	-0.05	22.63	24.50	1.538	0.326	22.5
Back side	GPRS 4TS	661/1880	1:2.075	0.251	0.131	-0.19	22.63	24.50	1.538	0.386	22.5
Left side	GPRS 4TS	661/1880	1:2.075	0.082	0.045	0.04	22.63	24.50	1.538	0.126	22.5
Right side	GPRS 4TS	661/1880	1:2.075	0.047	0.028	0.05	22.63	24.50	1.538	0.072	22.5
Bottom side	GPRS 4TS	661/1880	1:2.075	0.337	0.181	0.05	22.63	24.50	1.538	0.518	22.5
Bottom side with Sample2	GPRS 4TS	661/1880	1:2.075	0.319	0.172	0.09	22.63	24.50	1.538	0.491	22.5



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8.2.3 SAR Result of WCDMA Band II

WB2 SAR Test Record											
Ant 3 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data State 5											
Left cheek	RMC	9400/1880	1:1	0.440	0.279	0.18	18.30	18.80	1.122	0.494	22.0
Left tilted	RMC	9400/1880	1:1	0.473	0.288	-0.08	18.30	18.80	1.122	0.531	22.0
Right cheek	RMC	9400/1880	1:1	0.711	0.387	0.01	18.30	18.80	1.122	0.798	22.0
Right tilted	RMC	9400/1880	1:1	0.745	0.391	-0.04	18.30	18.80	1.122	0.836	22.0
Right tilted	RMC	9262/1852.4	1:1	0.783	0.413	-0.01	18.29	18.80	1.125	0.881	22.0
Right tilted	RMC	9538/1907.6	1:1	0.798	0.408	-0.06	18.32	18.80	1.117	0.891	22.0
Right tilted with Sample2	RMC	9538/1907.6	1:1	0.775	0.297	-0.03	18.32	18.80	1.117	0.866	22.0
Body worn Test data(Separate 15mm) State 3											
Front side	RMC	9400/1880	1:1	0.132	0.082	-0.01	20.33	20.80	1.114	0.147	22.2
Back side	RMC	9400/1880	1:1	0.164	0.098	0.02	20.33	20.80	1.114	0.183	22.2
Hotspot Test data(Separate 10mm) State 8											
Front side	RMC	9400/1880	1:1	0.151	0.092	-0.03	18.30	18.80	1.122	0.169	22.2
Back side	RMC	9400/1880	1:1	0.183	0.105	0.19	18.30	18.80	1.122	0.205	22.2
Left side	RMC	9400/1880	1:1	0.104	0.052	0.18	18.30	18.80	1.122	0.117	22.2
Top side	RMC	9400/1880	1:1	0.361	0.191	0.14	18.30	18.80	1.122	0.405	22.2
Ant 4 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data State 5											
Left cheek	RMC	9400/1880	1:1	0.140	0.089	0.07	24.04	24.80	1.191	0.167	22.0
Left tilted	RMC	9400/1880	1:1	0.115	0.070	0.16	24.04	24.80	1.191	0.137	22.0
Right cheek	RMC	9400/1880	1:1	0.136	0.083	-0.12	24.04	24.80	1.191	0.162	22.0
Right tilted	RMC	9400/1880	1:1	0.117	0.070	0.09	24.04	24.80	1.191	0.139	22.0
Body worn Test data(Separate 15mm) State 3											
Front side	RMC	9400/1880	1:1	0.208	0.123	0.08	20.84	21.30	1.112	0.231	22.2
Back side	RMC	9400/1880	1:1	0.248	0.150	-0.01	20.84	21.30	1.112	0.276	22.2
Back side with Sample2	RMC	9400/1880	1:1	0.236	0.143	-0.05	20.84	21.30	1.112	0.262	22.2
Hotspot Test data(Separate 10mm) State 8											
Front side	RMC	9400/1880	1:1	0.281	0.155	-0.05	19.17	19.80	1.156	0.325	22.2
Back side	RMC	9400/1880	1:1	0.354	0.190	0.04	19.17	19.80	1.156	0.409	22.2
Left side	RMC	9400/1880	1:1	0.100	0.057	-0.17	19.17	19.80	1.156	0.116	22.2
Right side	RMC	9400/1880	1:1	0.073	0.042	-0.09	19.17	19.80	1.156	0.084	22.2
Bottom side	RMC	9400/1880	1:1	0.428	0.235	0.03	19.17	19.80	1.156	0.495	22.2
Bottom side with Sample2	RMC	9400/1880	1:1	0.421	0.232	0.07	19.17	19.80	1.156	0.487	22.2



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8.2.4 SAR Result of WCDMA Band IV

WB4 SAR Test Record											
Ant 3 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data State 5											
Left cheek	RMC	1412/1732.4	1:1	0.376	0.239	0.11	18.33	18.80	1.114	0.419	22.0
Left tilted	RMC	1412/1732.4	1:1	0.392	0.235	0.14	18.33	18.80	1.114	0.437	22.0
Right cheek	RMC	1412/1732.4	1:1	0.618	0.353	0.08	18.33	18.80	1.114	0.689	22.0
Right cheek with Sample2	RMC	1412/1732.4	1:1	0.607	0.346	0.02	18.33	18.80	1.114	0.676	22.0
Right tilted	RMC	1412/1732.4	1:1	0.549	0.273	0.01	18.33	18.80	1.114	0.612	22.0
Body worn Test data(Separate 15mm) State 3											
Front side	RMC	1412/1732.4	1:1	0.173	0.107	-0.11	21.95	22.30	1.084	0.188	22.2
Back side	RMC	1412/1732.4	1:1	0.234	0.153	0.09	21.95	22.30	1.084	0.254	22.2
Back side with Sample2	RMC	1412/1732.4	1:1	0.229	0.150	0.04	21.95	22.30	1.084	0.248	22.2
Hotspot Test data(Separate 10mm) State 8											
Front side	RMC	1412/1732.4	1:1	0.181	0.110	0.05	19.87	20.30	1.104	0.200	22.2
Back side	RMC	1412/1732.4	1:1	0.201	0.122	-0.19	19.87	20.30	1.104	0.222	22.2
Left side	RMC	1412/1732.4	1:1	0.099	0.049	0.12	19.87	20.30	1.104	0.109	22.2
Top side	RMC	1412/1732.4	1:1	0.300	0.169	-0.12	19.87	20.30	1.104	0.331	22.2
Ant 4 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data State 5											
Left cheek	RMC	1412/1732.4	1:1	0.100	0.064	-0.11	24.24	24.80	1.138	0.114	22.0
Left tilted	RMC	1412/1732.4	1:1	0.073	0.045	0.02	24.24	24.80	1.138	0.083	22.0
Right cheek	RMC	1412/1732.4	1:1	0.118	0.074	-0.06	24.24	24.80	1.138	0.134	22.0
Right tilted	RMC	1412/1732.4	1:1	0.052	0.028	-0.12	24.24	24.80	1.138	0.059	22.0
Body worn Test data(Separate 15mm) State 3											
Front side	RMC	1412/1732.4	1:1	0.141	0.083	-0.19	21.18	21.80	1.153	0.163	22.2
Back side	RMC	1412/1732.4	1:1	0.167	0.099	0.00	21.18	21.80	1.153	0.193	22.2
Hotspot Test data(Separate 10mm) State 8											
Front side	RMC	1412/1732.4	1:1	0.211	0.116	0.13	19.77	20.30	1.130	0.238	22.2
Back side	RMC	1412/1732.4	1:1	0.261	0.139	0.18	19.77	20.30	1.130	0.295	22.2
Left side	RMC	1412/1732.4	1:1	0.070	0.039	0.07	19.77	20.30	1.130	0.079	22.2
Right side	RMC	1412/1732.4	1:1	0.045	0.025	0.13	19.77	20.30	1.130	0.051	22.2
Bottom side	RMC	1412/1732.4	1:1	0.353	0.196	0.09	19.77	20.30	1.130	0.399	22.2
Bottom side with Sample2	RMC	1412/1732.4	1:1	0.341	0.191	0.02	19.77	20.30	1.130	0.385	22.2



8.2.5 SAR Result of WCDMA Band V

WB5 SAR Test Record											
Ant 0 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data State 5											
Left cheek	RMC	4182/836.4	1:1	0.507	0.284	0.02	23.27	23.60	1.079	0.547	22.0
Left tilted	RMC	4182/836.4	1:1	0.200	0.121	0.05	23.27	23.60	1.079	0.216	22.0
Right cheek	RMC	4182/836.4	1:1	0.651	0.374	0.07	23.27	23.60	1.079	0.702	22.0
Right tilted	RMC	4182/836.4	1:1	0.180	0.125	0.19	23.27	23.60	1.079	0.194	22.0
Body worn Test data(Separate 15mm) State 3											
Front side	RMC	4182/836.4	1:1	0.194	0.121	-0.03	22.82	23.10	1.067	0.207	22.2
Back side	RMC	4182/836.4	1:1	0.241	0.151	0.07	22.82	23.10	1.067	0.257	22.2
Hotspot Test data(Separate 10mm) State 8											
Front side	RMC	4182/836.4	1:1	0.218	0.130	0.05	21.29	21.60	1.074	0.234	22.2
Back side	RMC	4182/836.4	1:1	0.285	0.171	-0.09	21.29	21.60	1.074	0.306	22.2
Right side	RMC	4182/836.4	1:1	0.456	0.263	-0.01	21.29	21.60	1.074	0.490	22.2
Bottom side	RMC	4182/836.4	1:1	0.031	0.021	0.13	21.29	21.60	1.074	0.033	22.2
Ant 1 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data State 5											
Left cheek	RMC	4182/836.4	1:1	0.639	0.365	0.01	22.69	23.30	1.151	0.735	22.0
Left cheek with Sample2	RMC	4182/836.4	1:1	0.631	0.359	0.07	22.69	23.30	1.151	0.726	22.0
Left tilted	RMC	4182/836.4	1:1	0.171	0.119	-0.14	22.69	23.30	1.151	0.197	22.0
Right cheek	RMC	4182/836.4	1:1	0.603	0.325	-0.15	22.69	23.30	1.151	0.694	22.0
Right tilted	RMC	4182/836.4	1:1	0.180	0.113	0.18	22.69	23.30	1.151	0.207	22.0
Body worn Test data(Separate 15mm) State 3											
Front side	RMC	4182/836.4	1:1	0.195	0.116	0.02	22.33	22.80	1.114	0.217	22.2
Back side	RMC	4182/836.4	1:1	0.346	0.228	0.16	22.33	22.80	1.114	0.386	22.2
Back side with Sample2	RMC	4182/836.4	1:1	0.328	0.219	0.13	22.33	22.80	1.114	0.365	22.2
Hotspot Test data(Separate 10mm) State 8											
Front side	RMC	4182/836.4	1:1	0.229	0.131	-0.05	20.83	21.30	1.114	0.255	22.2
Back side	RMC	4182/836.4	1:1	0.283	0.166	-0.01	20.83	21.30	1.114	0.315	22.2
Left side	RMC	4182/836.4	1:1	0.607	0.368	-0.07	20.83	21.30	1.114	0.676	22.2
Left side with Sample2	RMC	4182/836.4	1:1	0.593	0.361	-0.02	20.83	21.30	1.114	0.661	22.2
Bottom side	RMC	4182/836.4	1:1	0.026	0.015	-0.15	20.83	21.30	1.114	0.029	22.2

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

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 76 of 148

8.2.6 SAR Result of LTE Band 2

LTE Band 2 SAR Test Record												
Ant 3 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.425	0.270	0.10	18.68	19.00	1.076	0.457	22.0
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.468	0.288	0.16	18.68	19.00	1.076	0.504	22.0
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.737	0.398	0.01	18.68	19.00	1.076	0.793	22.0
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.749	0.383	0.05	18.68	19.00	1.076	0.806	22.0
Right tilted	20	QPSK 1_0	18700/1860	1:1	0.768	0.362	-0.07	18.11	19.00	1.227	0.943	22.0
Right tilted	20	QPSK 1_0	19100/1900	1:1	0.730	0.374	-0.02	18.41	19.00	1.146	0.836	22.0
Head Test Data (50%RB) State 5												
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.417	0.263	0.18	18.36	19.00	1.159	0.483	22.0
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.476	0.291	-0.01	18.36	19.00	1.159	0.552	22.0
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.745	0.400	0.03	18.36	19.00	1.159	0.863	22.0
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.784	0.402	0.01	18.36	19.00	1.159	0.908	22.0
Right cheek	20	QPSK 50_0	18700/1860	1:1	0.798	0.429	-0.01	18.29	19.00	1.178	0.940	22.0
Right cheek	20	QPSK 50_0	19100/1900	1:1	0.701	0.384	0.05	18.20	19.00	1.202	0.843	22.0
Right tilted	20	QPSK 50_0	18700/1860	1:1	0.832	0.428	0.02	18.29	19.00	1.178	0.980	22.0
Right tilted-Repeated	20	QPSK 50_0	18700/1860	1:1	0.826	0.425	0.03	18.29	19.00	1.178	0.973	22.0
Right tilted with Sample2	20	QPSK 50_0	18700/1860	1:1	0.813	0.419	0.08	18.29	19.00	1.178	0.957	22.0
Right tilted	20	QPSK 50_0	19100/1900	1:1	0.759	0.377	-0.10	18.20	19.00	1.202	0.913	22.0
Head Test Data (100%RB) State 5												
Right cheek	20	QPSK 100_0	18900/1880	1:1	0.773	0.414	0.05	18.34	19.00	1.164	0.900	22.0
Right tilted	20	QPSK 100_0	18900/1880	1:1	0.796	0.397	0.05	18.34	19.00	1.164	0.927	22.0
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	20	QPSK 1_0	18900/1880	1:1	0.115	0.072	-0.05	20.29	21.00	1.178	0.135	22.2
Back side	20	QPSK 1_0	18900/1880	1:1	0.177	0.106	-0.12	20.29	21.00	1.178	0.208	22.2
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	20	QPSK 50_0	18900/1880	1:1	0.116	0.071	0.02	20.37	21.00	1.156	0.134	22.2
Back side	20	QPSK 50_0	18900/1880	1:1	0.181	0.107	0.08	20.37	21.00	1.156	0.209	22.2
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	20	QPSK 1_0	18900/1880	1:1	0.157	0.096	-0.05	19.18	19.50	1.076	0.169	22.2
Back side	20	QPSK 1_0	18900/1880	1:1	0.270	0.156	0.08	19.18	19.50	1.076	0.291	22.2
Left side	20	QPSK 1_0	18900/1880	1:1	0.105	0.054	0.11	19.18	19.50	1.076	0.113	22.2
Top side	20	QPSK 1_0	18900/1880	1:1	0.360	0.193	0.07	19.18	19.50	1.076	0.388	22.2
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	20	QPSK 50_0	18900/1880	1:1	0.164	0.100	0.19	18.97	19.50	1.130	0.185	22.2
Back side	20	QPSK 50_0	18900/1880	1:1	0.277	0.154	-0.11	18.97	19.50	1.130	0.313	22.2
Left side	20	QPSK 50_0	18900/1880	1:1	0.114	0.058	-0.17	18.97	19.50	1.130	0.129	22.2
Top side	20	QPSK 50_0	18900/1880	1:1	0.375	0.198	-0.16	18.97	19.50	1.130	0.424	22.2



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 77 of 148

Ant 4 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.095	0.059	0.10	23.40	24.00	1.148	0.109	22.0
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.074	0.045	-0.19	23.40	24.00	1.148	0.085	22.0
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.127	0.077	0.06	23.40	24.00	1.148	0.146	22.0
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.077	0.047	0.12	23.40	24.00	1.148	0.088	22.0
Head Test Data (50%RB) State 5												
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.086	0.056	-0.03	22.34	23.00	1.164	0.100	22.0
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.062	0.039	-0.09	22.34	23.00	1.164	0.072	22.0
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.098	0.059	0.09	22.34	23.00	1.164	0.114	22.0
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.066	0.040	-0.10	22.34	23.00	1.164	0.077	22.0
Body worn Test data (Separate 15mm 1%RB) State 3												
Front side	20	QPSK 1_50	18900/1880	1:1	0.183	0.109	0.08	20.76	21.50	1.186	0.217	22.2
Back side	20	QPSK 1_50	18900/1880	1:1	0.236	0.136	0.14	20.76	21.50	1.186	0.280	22.2
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	20	QPSK 50_0	18900/1880	1:1	0.199	0.115	-0.06	20.75	21.50	1.189	0.237	22.2
Back side	20	QPSK 50_0	18900/1880	1:1	0.237	0.144	0.13	20.75	21.50	1.189	0.282	22.2
Back side with Sample2	20	QPSK 50_0	18900/1880	1:1	0.233	0.141	0.16	20.75	21.50	1.189	0.277	22.2
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	20	QPSK 1_50	18900/1880	1:1	0.253	0.142	-0.08	19.39	20.00	1.151	0.291	22.2
Back side	20	QPSK 1_50	18900/1880	1:1	0.314	0.169	0.04	19.39	20.00	1.151	0.361	22.2
Left side	20	QPSK 1_50	18900/1880	1:1	0.109	0.060	-0.18	19.39	20.00	1.151	0.125	22.2
Right side	20	QPSK 1_50	18900/1880	1:1	0.060	0.033	0.12	19.39	20.00	1.151	0.069	22.2
Bottom side	20	QPSK 1_50	18900/1880	1:1	0.413	0.220	-0.18	19.39	20.00	1.151	0.475	22.2
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	20	QPSK 50_0	18900/1880	1:1	0.263	0.147	-0.12	19.27	20.00	1.183	0.311	22.2
Back side	20	QPSK 50_0	18900/1880	1:1	0.318	0.172	-0.06	19.27	20.00	1.183	0.376	22.2
Left side	20	QPSK 50_0	18900/1880	1:1	0.108	0.060	-0.17	19.27	20.00	1.183	0.128	22.2
Right side	20	QPSK 50_0	18900/1880	1:1	0.067	0.035	0.13	19.27	20.00	1.183	0.079	22.2
Bottom side	20	QPSK 50_0	18900/1880	1:1	0.404	0.220	0.18	19.27	20.00	1.183	0.478	22.2
Bottom side with Sample2	20	QPSK 50_0	18900/1880	1:1	0.388	0.212	0.12	19.27	20.00	1.183	0.459	22.2
Ant 5 with ENDC&Inter-band_UL_CA Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	20	QPSK 1_0	18700/1860	1:1	0.474	0.261	-0.08	17.68	18.70	1.265	0.599	22.0
Left tilted	20	QPSK 1_0	18700/1860	1:1	0.313	0.175	-0.11	17.68	18.70	1.265	0.396	22.0
Right cheek	20	QPSK 1_0	18700/1860	1:1	0.111	0.072	0.04	17.68	18.70	1.265	0.140	22.0
Right tilted	20	QPSK 1_0	18700/1860	1:1	0.134	0.083	-0.10	17.68	18.70	1.265	0.169	22.0



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 78 of 148

Head Test Data (50%RB) State 5												
Left cheek	20	QPSK 50_25	18700/1860	1:1	0.505	0.283	0.00	17.68	18.70	1.265	0.639	22.0
Left tilted	20	QPSK 50_25	18700/1860	1:1	0.321	0.174	0.10	17.68	18.70	1.265	0.406	22.0
Right cheek	20	QPSK 50_25	18700/1860	1:1	0.114	0.073	0.14	17.68	18.70	1.265	0.144	22.0
Right tilted	20	QPSK 50_25	18700/1860	1:1	0.166	0.102	0.16	17.68	18.70	1.265	0.210	22.0
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	20	QPSK 1_0	18700/1860	1:1	0.069	0.042	0.03	19.67	20.70	1.268	0.087	22.0
Back side	20	QPSK 1_0	18700/1860	1:1	0.078	0.048	0.07	19.67	20.70	1.268	0.099	22.0
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	20	QPSK 50_50	18700/1860	1:1	0.076	0.046	0.10	19.19	20.20	1.262	0.096	22.0
Back side	20	QPSK 50_50	18700/1860	1:1	0.082	0.052	0.17	19.19	20.20	1.262	0.103	22.0
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	20	QPSK 1_0	18700/1860	1:1	0.095	0.051	-0.13	17.68	18.70	1.265	0.120	22.0
Back side	20	QPSK 1_0	18700/1860	1:1	0.087	0.053	0.13	17.68	18.70	1.265	0.110	22.0
Right side	20	QPSK 1_0	18700/1860	1:1	0.082	0.041	-0.05	17.68	18.70	1.265	0.104	22.0
Top side	20	QPSK 1_0	18700/1860	1:1	0.152	0.080	-0.19	17.68	18.70	1.265	0.192	22.0
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	20	QPSK 50_25	18700/1860	1:1	0.096	0.052	-0.02	17.68	18.70	1.265	0.121	22.0
Back side	20	QPSK 50_25	18700/1860	1:1	0.096	0.057	-0.05	17.68	18.70	1.265	0.121	22.0
Right side	20	QPSK 50_25	18700/1860	1:1	0.092	0.044	0.14	17.68	18.70	1.265	0.116	22.0
Top side	20	QPSK 50_25	18700/1860	1:1	0.158	0.084	0.01	17.68	18.70	1.265	0.200	22.0

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	18700/1860	0.832	0.826	1.007	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 79 of 148

8.2.7 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record												
Ant 3 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.491	0.260	-0.13	16.92	17.50	1.143	0.561	22.2
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.562	0.291	-0.15	16.92	17.50	1.143	0.642	22.2
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.693	0.352	-0.06	16.92	17.50	1.143	0.792	22.2
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.672	0.331	0.11	16.92	17.50	1.143	0.768	22.2
Right cheek	20	QPSK PCC 1_99	21100/2535	1:1	0.655	0.322	0.02	16.69	17.50	1.205	0.789	22.2
		QPSK SCC 1_0	21298/2554.8									
Head Test Data (50%RB) State 5												
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.503	0.265	0.07	16.90	17.50	1.148	0.578	22.2
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.569	0.295	-0.10	16.90	17.50	1.148	0.653	22.2
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.707	0.329	0.10	16.90	17.50	1.148	0.812	22.2
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.682	0.343	0.16	16.90	17.50	1.148	0.783	22.2
Right cheek	20	QPSK 50_0	20850/2510	1:1	0.699	0.324	-0.18	16.87	17.50	1.156	0.808	22.2
Right cheek	20	QPSK 50_0	21350/2560	1:1	0.720	0.337	0.16	16.77	17.50	1.183	0.852	22.2
Head Test Data (100%RB) State 5												
Right cheek	20	QPSK 100_0	21100/2535	1:1	0.698	0.319	0.10	16.90	17.50	1.148	0.801	22.2
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	20	QPSK 1_0	21100/2535	1:1	0.158	0.087	-0.19	19.97	20.50	1.130	0.179	22.4
Back side	20	QPSK 1_0	21100/2535	1:1	0.211	0.115	0.13	19.97	20.50	1.130	0.238	22.4
Back side	20	QPSK PCC 1_99	21100/2535	1:1	0.189	0.104	-0.15	19.54	20.50	1.247	0.236	22.4
		QPSK SCC 1_0	21298/2554.8									
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	20	QPSK 50_0	21100/2535	1:1	0.172	0.094	-0.04	20.01	20.50	1.119	0.193	22.4
Back side	20	QPSK 50_0	21100/2535	1:1	0.289	0.163	0.08	20.01	20.50	1.119	0.324	22.4
Back side with Sample2	20	QPSK 50_0	21100/2535	1:1	0.282	0.159	0.03	20.01	20.50	1.119	0.316	22.4
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	20	QPSK 1_0	21100/2535	1:1	0.169	0.092	-0.11	17.99	18.50	1.125	0.190	22.4
Back side	20	QPSK 1_0	21100/2535	1:1	0.279	0.145	-0.06	17.99	18.50	1.125	0.314	22.4
Left side	20	QPSK 1_0	21100/2535	1:1	0.110	0.053	-0.09	17.99	18.50	1.125	0.124	22.4
Top side	20	QPSK 1_0	21100/2535	1:1	0.394	0.193	-0.03	17.99	18.50	1.125	0.443	22.4
Top side	20	QPSK PCC 1_99	21100/2535	1:1	0.360	0.171	0.08	17.56	18.50	1.242	0.447	22.4
		QPSK SCC 1_0	21298/2554.8									
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	20	QPSK 50_0	21100/2535	1:1	0.182	0.097	0.19	17.93	18.50	1.140	0.208	22.4
Back side	20	QPSK 50_0	21100/2535	1:1	0.288	0.153	0.09	17.93	18.50	1.140	0.328	22.4
Left side	20	QPSK 50_0	21100/2535	1:1	0.098	0.049	0.12	17.93	18.50	1.140	0.112	22.4
Top side	20	QPSK 50_0	21100/2535	1:1	0.394	0.206	0.05	17.93	18.50	1.140	0.449	22.4
Top side with Sample2	20	QPSK 50_0	21100/2535	1:1	0.386	0.202	0.03	17.93	18.50	1.140	0.440	22.4



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 80 of 148

Ant 4 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	20	QPSK 1_99	21100/2535	1:1	0.219	0.118	-0.19	24.75	25.00	1.059	0.232	22.2
Left tilted	20	QPSK 1_99	21100/2535	1:1	0.084	0.045	-0.03	24.75	25.00	1.059	0.089	22.2
Right cheek	20	QPSK 1_99	21100/2535	1:1	0.115	0.061	-0.14	24.75	25.00	1.059	0.122	22.2
Right tilted	20	QPSK 1_99	21100/2535	1:1	0.146	0.076	-0.02	24.75	25.00	1.059	0.155	22.2
Left cheek	20	QPSK PCC 1_0	21100/2535	1:1	0.203	0.115	-0.16	24.53	25.00	1.114	0.226	22.2
		QPSK SCC 1_99	20902/2515.2									
Head Test Data (50%RB) State 5												
Left cheek	20	QPSK 50_0	21100/2535	1:1	0.164	0.088	0.07	23.77	24.00	1.054	0.173	22.2
Left tilted	20	QPSK 50_0	21100/2535	1:1	0.058	0.030	-0.12	23.77	24.00	1.054	0.061	22.2
Right cheek	20	QPSK 50_0	21100/2535	1:1	0.099	0.052	0.14	23.77	24.00	1.054	0.104	22.2
Right tilted	20	QPSK 50_0	21100/2535	1:1	0.109	0.057	0.06	23.77	24.00	1.054	0.115	22.2
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	20	QPSK 1_99	21100/2535	1:1	0.169	0.093	0.17	22.74	23.00	1.062	0.179	22.2
Back side	20	QPSK 1_99	21100/2535	1:1	0.220	0.118	0.16	22.74	23.00	1.062	0.234	22.2
Back side	20	QPSK PCC 1_0	21100/2535	1:1	0.206	0.106	0.07	22.29	23.00	1.178	0.243	22.2
		QPSK SCC 1_99	20902/2515.2									
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	20	QPSK 50_0	21100/2535	1:1	0.185	0.100	0.08	22.58	23.00	1.102	0.204	22.2
Back side	20	QPSK 50_0	21100/2535	1:1	0.214	0.114	0.04	22.58	23.00	1.102	0.236	22.2
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	20	QPSK 1_99	21100/2535	1:1	0.221	0.113	-0.17	20.79	21.00	1.050	0.232	22.2
Back side	20	QPSK 1_99	21100/2535	1:1	0.277	0.139	0.02	20.79	21.00	1.050	0.291	22.2
Left side	20	QPSK 1_99	21100/2535	1:1	0.078	0.040	0.12	20.79	21.00	1.050	0.082	22.2
Right side	20	QPSK 1_99	21100/2535	1:1	0.038	0.020	0.07	20.79	21.00	1.050	0.040	22.2
Bottom side	20	QPSK 1_99	21100/2535	1:1	0.353	0.178	0.14	20.79	21.00	1.050	0.370	22.2
Bottom side	20	QPSK PCC 1_0	21100/2535	1:1	0.312	0.156	-0.18	20.32	21.00	1.169	0.365	22.2
		QPSK SCC 1_99	20902/2515.2									
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	20	QPSK 50_0	21100/2535	1:1	0.201	0.107	-0.15	20.61	21.00	1.094	0.220	22.2
Back side	20	QPSK 50_0	21100/2535	1:1	0.287	0.142	0.11	20.61	21.00	1.094	0.314	22.2
Left side	20	QPSK 50_0	21100/2535	1:1	0.073	0.039	-0.16	20.61	21.00	1.094	0.080	22.2
Right side	20	QPSK 50_0	21100/2535	1:1	0.034	0.180	0.10	20.61	21.00	1.094	0.037	22.2
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.359	0.181	0.08	20.61	21.00	1.094	0.393	22.2



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 81 of 148

Ant 5 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	20	QPSK 1_50	21100/2535	1:1	0.641	0.310	0.05	20.23	21.30	1.279	0.820	22.2
Left tilted	20	QPSK 1_50	21100/2535	1:1	0.538	0.278	0.19	20.23	21.30	1.279	0.688	22.2
Right cheek	20	QPSK 1_50	21100/2535	1:1	0.288	0.159	-0.02	20.23	21.30	1.279	0.368	22.2
Right tilted	20	QPSK 1_50	21100/2535	1:1	0.321	0.167	-0.01	20.23	21.30	1.279	0.411	22.2
Left cheek	20	QPSK 1_0	20850/2510	1:1	0.561	0.280	-0.09	20.19	21.30	1.291	0.724	22.2
Left cheek	20	QPSK 1_0	21350/2560	1:1	0.691	0.336	-0.04	20.02	21.30	1.343	0.928	22.2
Left cheek with Sample2	20	QPSK 1_0	21350/2560	1:1	0.678	0.329	-0.07	20.02	21.30	1.343	0.910	22.2
Left cheek	20	QPSK PCC 1_0	21350/2560	1:1	0.666	0.345	-0.12	20.19	21.30	1.291	0.860	22.2
		QPSK SCC 1_99	21152/2540.2									
Head Test Data (50%RB) State 5												
Left cheek	20	QPSK 50_0	20850/2510	1:1	0.600	0.298	0.17	20.20	21.30	1.288	0.773	22.2
Left tilted	20	QPSK 50_0	20850/2510	1:1	0.452	0.238	0.08	20.20	21.30	1.288	0.582	22.2
Right cheek	20	QPSK 50_0	20850/2510	1:1	0.263	0.146	0.10	20.20	21.30	1.288	0.339	22.2
Right tilted	20	QPSK 50_0	20850/2510	1:1	0.272	0.142	0.11	20.20	21.30	1.288	0.350	22.2
Head Test Data (100%RB) State 5												
Left cheek	20	QPSK 100_0	21100/2535	1:1	0.605	0.293	0.09	20.08	21.30	1.324	0.801	22.2
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	20	QPSK 1_0	21100/2535	1:1	0.103	0.054	0.17	22.11	23.30	1.315	0.135	22.2
Back side	20	QPSK 1_0	21100/2535	1:1	0.102	0.055	-0.15	22.11	23.30	1.315	0.134	22.2
Front side	20	QPSK PCC 1_99	21100/2535	1:1	0.103	0.053	-0.17	22.23	23.30	1.279	0.132	22.2
		QPSK SCC 1_0	21298/2554.8									
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	20	QPSK 50_0	21100/2535	1:1	0.087	0.045	0.07	21.24	22.30	1.276	0.111	22.2
Back side	20	QPSK 50_0	21100/2535	1:1	0.087	0.047	-0.11	21.24	22.30	1.276	0.111	22.2
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	20	QPSK 1_50	20850/2510	1:1	0.128	0.065	-0.08	22.12	22.80	1.169	0.150	22.2
Back side	20	QPSK 1_50	20850/2510	1:1	0.167	0.082	0.04	22.12	22.80	1.169	0.195	22.2
Right side	20	QPSK 1_50	20850/2510	1:1	0.062	0.030	-0.01	22.12	22.80	1.169	0.073	22.2
Top side	20	QPSK 1_50	20850/2510	1:1	0.195	0.095	0.18	22.12	22.80	1.169	0.228	22.2
Top side	20	QPSK PCC 1_99	20850/2510	1:1	0.207	0.106	-0.10	21.69	22.80	1.291	0.267	22.2
		QPSK SCC 1_0	21048/2529.8									
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	20	QPSK 50_0	20850/2510	1:1	0.149	0.075	-0.11	21.23	22.30	1.279	0.191	22.2
Back side	20	QPSK 50_0	20850/2510	1:1	0.096	0.053	0.18	21.23	22.30	1.279	0.123	22.2
Right side	20	QPSK 50_0	20850/2510	1:1	0.054	0.027	0.17	21.23	22.30	1.279	0.069	22.2
Top side	20	QPSK 50_0	20850/2510	1:1	0.252	0.121	-0.07	21.23	22.30	1.279	0.322	22.2



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8.2.8 SAR Result of LTE Band 12

LTE Band 12 SAR Test Record												
Ant 0 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.211	0.129	-0.07	23.93	24.50	1.140	0.241	22.0
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.067	0.042	0.01	23.93	24.50	1.140	0.076	22.0
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.236	0.135	-0.09	23.93	24.50	1.140	0.269	22.0
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.068	0.046	0.10	23.93	24.50	1.140	0.078	22.0
Head Test Data (50%RB) State 5												
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.179	0.099	-0.11	22.95	23.50	1.135	0.203	22.0
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.057	0.036	-0.05	22.95	23.50	1.135	0.065	22.0
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.217	0.114	-0.05	22.95	23.50	1.135	0.246	22.0
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.054	0.037	0.13	22.95	23.50	1.135	0.061	22.0
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.105	0.068	-0.14	23.93	24.50	1.140	0.120	22.4
Back side	10	QPSK 1_0	23095/707.5	1:1	0.151	0.103	-0.17	23.93	24.50	1.140	0.172	22.4
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.087	0.056	-0.17	22.95	23.50	1.135	0.099	22.4
Back side	10	QPSK 25_0	23095/707.5	1:1	0.137	0.087	-0.12	22.95	23.50	1.135	0.155	22.4
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.136	0.083	-0.10	23.93	24.50	1.140	0.155	22.4
Back side	10	QPSK 1_0	23095/707.5	1:1	0.255	0.151	-0.07	23.93	24.50	1.140	0.291	22.4
Right side	10	QPSK 1_0	23095/707.5	1:1	0.442	0.281	-0.16	23.93	24.50	1.140	0.504	22.4
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.027	0.014	-0.12	23.93	24.50	1.140	0.031	22.4
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.122	0.074	-0.13	22.95	23.50	1.135	0.138	22.4
Back side	10	QPSK 25_0	23095/707.5	1:1	0.208	0.124	-0.01	22.95	23.50	1.135	0.236	22.4
Right side	10	QPSK 25_0	23095/707.5	1:1	0.393	0.229	-0.05	22.95	23.50	1.135	0.446	22.4
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.022	0.011	-0.06	22.95	23.50	1.135	0.025	22.4
Ant 1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.240	0.130	-0.16	24.60	25.00	1.096	0.263	22.0
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.069	0.047	0.00	24.60	25.00	1.096	0.076	22.0
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.247	0.144	0.08	24.60	25.00	1.096	0.271	22.0
Right cheek with Sample2	10	QPSK 1_0	23095/707.5	1:1	0.244	0.142	0.05	24.60	25.00	1.096	0.268	22.0
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.064	0.040	-0.02	24.60	25.00	1.096	0.070	22.0



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

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 83 of 148

Head Test Data (50%RB) State 5												
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.205	0.109	0.03	23.80	24.00	1.047	0.215	22.0
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.061	0.042	0.10	23.80	24.00	1.047	0.064	22.0
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.239	0.138	0.05	23.80	24.00	1.047	0.250	22.0
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.062	0.039	0.07	23.80	24.00	1.047	0.065	22.0
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.125	0.079	-0.02	24.60	25.00	1.096	0.137	22.4
Back side	10	QPSK 1_0	23095/707.5	1:1	0.160	0.108	0.12	24.60	25.00	1.096	0.175	22.4
Back side with Sample2	10	QPSK 1_0	23095/707.5	1:1	0.154	0.105	0.10	24.60	25.00	1.096	0.169	22.4
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.105	0.063	-0.14	23.80	24.00	1.047	0.110	22.4
Back side	10	QPSK 25_0	23095/707.5	1:1	0.153	0.102	-0.18	23.80	24.00	1.047	0.160	22.4
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.158	0.094	0.12	23.83	24.00	1.040	0.164	22.4
Back side	10	QPSK 1_0	23095/707.5	1:1	0.240	0.139	-0.17	23.83	24.00	1.040	0.250	22.4
Left side	10	QPSK 1_0	23095/707.5	1:1	0.468	0.297	0.03	23.83	24.00	1.040	0.487	22.4
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.026	0.014	-0.15	23.83	24.00	1.040	0.027	22.4
Front side	10	QPSK 25_0	23095/707.5	1:1	0.163	0.097	0.13	23.72	24.00	1.067	0.174	22.4
Back side	10	QPSK 25_0	23095/707.5	1:1	0.253	0.146	-0.01	23.72	24.00	1.067	0.270	22.4
Left side	10	QPSK 25_0	23095/707.5	1:1	0.478	0.303	-0.07	23.72	24.00	1.067	0.510	22.4
Left side with Sample2	10	QPSK 25_0	23095/707.5	1:1	0.469	0.299	-0.02	23.72	24.00	1.067	0.500	22.4
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.029	0.015	0.07	23.72	24.00	1.067	0.031	22.4



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8.2.9 SAR Result of LTE Band 13

LTE Band 13 SAR Test Record												
Ant 0 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.476	0.264	0.07	23.75	24.00	1.059	0.504	22.0
Left tilted	10	QPSK 1_0	23230/782	1:1	0.149	0.090	-0.05	23.75	24.00	1.059	0.158	22.0
Right cheek	10	QPSK 1_0	23230/782	1:1	0.486	0.282	0.19	23.75	24.00	1.059	0.515	22.0
Right tilted	10	QPSK 1_0	23230/782	1:1	0.130	0.090	-0.02	23.75	24.00	1.059	0.138	22.0
Head Test Data (50%RB) State 5												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.374	0.206	-0.13	22.71	23.00	1.069	0.400	22.0
Left tilted	10	QPSK 25_0	23230/782	1:1	0.117	0.071	0.04	22.71	23.00	1.069	0.125	22.0
Right cheek	10	QPSK 25_0	23230/782	1:1	0.435	0.226	-0.01	22.71	23.00	1.069	0.465	22.0
Right tilted	10	QPSK 25_0	23230/782	1:1	0.105	0.072	-0.04	22.71	23.00	1.069	0.112	22.0
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	10	QPSK 1_0	23230/782	1:1	0.190	0.118	0.08	23.75	24.00	1.059	0.201	22.4
Back side	10	QPSK 1_0	23230/782	1:1	0.286	0.176	0.04	23.75	24.00	1.059	0.303	22.4
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	10	QPSK 25_0	23230/782	1:1	0.152	0.097	0.18	22.71	23.00	1.069	0.162	22.4
Back side	10	QPSK 25_0	23230/782	1:1	0.226	0.139	-0.06	22.71	23.00	1.069	0.242	22.4
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	10	QPSK 1_0	23230/782	1:1	0.206	0.123	-0.02	22.40	22.50	1.023	0.211	22.4
Back side	10	QPSK 1_0	23230/782	1:1	0.320	0.187	0.12	22.40	22.50	1.023	0.327	22.4
Right side	10	QPSK 1_0	23230/782	1:1	0.477	0.279	-0.03	22.40	22.50	1.023	0.488	22.4
Bottom side	10	QPSK 1_0	23230/782	1:1	0.017	0.009	0.08	22.40	22.50	1.023	0.017	22.4
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	10	QPSK 25_0	23230/782	1:1	0.205	0.123	-0.03	22.32	22.50	1.042	0.214	22.4
Back side	10	QPSK 25_0	23230/782	1:1	0.291	0.174	0.08	22.32	22.50	1.042	0.303	22.4
Right side	10	QPSK 25_0	23230/782	1:1	0.476	0.279	-0.11	22.32	22.50	1.042	0.496	22.4
Bottom side	10	QPSK 25_0	23230/782	1:1	0.015	0.008	-0.10	22.32	22.50	1.042	0.016	22.4
Ant 1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.462	0.261	-0.13	24.58	25.00	1.102	0.509	22.0
Left tilted	10	QPSK 1_0	23230/782	1:1	0.131	0.090	0.03	24.58	25.00	1.102	0.144	22.0
Right cheek	10	QPSK 1_0	23230/782	1:1	0.484	0.278	0.05	24.58	25.00	1.102	0.533	22.0
Right cheek with Sample2	10	QPSK 1_0	23230/782	1:1	0.477	0.274	0.02	24.58	25.00	1.102	0.525	22.0
Right tilted	10	QPSK 1_0	23230/782	1:1	0.135	0.085	0.13	24.58	25.00	1.102	0.149	22.0



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

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 85 of 148

Head Test Data (50%RB) State 5												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.291	0.162	0.04	23.58	24.00	1.102	0.321	22.0
Left tilted	10	QPSK 25_0	23230/782	1:1	0.090	0.062	-0.03	23.58	24.00	1.102	0.099	22.0
Right cheek	10	QPSK 25_0	23230/782	1:1	0.357	0.194	-0.05	23.58	24.00	1.102	0.393	22.0
Right tilted	10	QPSK 25_0	23230/782	1:1	0.102	0.064	0.05	23.58	24.00	1.102	0.112	22.0
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	10	QPSK 1_0	23230/782	1:1	0.164	0.086	0.12	24.58	25.00	1.102	0.181	22.4
Back side	10	QPSK 1_0	23230/782	1:1	0.286	0.192	0.07	24.58	25.00	1.102	0.315	22.4
Back side with Sample2	10	QPSK 1_0	23230/782	1:1	0.278	0.189	0.01	24.58	25.00	1.102	0.306	22.4
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	10	QPSK 25_0	23230/782	1:1	0.144	0.088	0.12	23.58	24.00	1.102	0.159	22.4
Back side	10	QPSK 25_0	23230/782	1:1	0.217	0.132	-0.10	23.58	24.00	1.102	0.239	22.4
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	10	QPSK 1_0	23230/782	1:1	0.208	0.121	-0.02	23.14	23.50	1.086	0.226	22.4
Back side	10	QPSK 1_0	23230/782	1:1	0.322	0.186	-0.08	23.14	23.50	1.086	0.350	22.4
Left side	10	QPSK 1_0	23230/782	1:1	0.631	0.389	0.05	23.14	23.50	1.086	0.686	22.4
Left side with Sample2	10	QPSK 1_0	23230/782	1:1	0.624	0.385	0.02	23.14	23.50	1.086	0.678	22.4
Bottom side	10	QPSK 1_0	23230/782	1:1	0.032	0.017	-0.13	23.14	23.50	1.086	0.035	22.4
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	10	QPSK 25_0	23230/782	1:1	0.203	0.119	-0.16	23.12	23.50	1.091	0.222	22.4
Back side	10	QPSK 25_0	23230/782	1:1	0.304	0.177	0.10	23.12	23.50	1.091	0.332	22.4
Left side	10	QPSK 25_0	23230/782	1:1	0.530	0.297	-0.11	23.12	23.50	1.091	0.578	22.4
Bottom side	10	QPSK 25_0	23230/782	1:1	0.029	0.015	-0.05	23.12	23.50	1.091	0.032	22.4



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8.2.10 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record												
Ant 0 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	15	QPSK 1_38	26865/831.5	1:1	0.663	0.364	0.05	23.76	24.00	1.057	0.701	22.0
Left cheek with Sample2	15	QPSK 1_38	26865/831.5	1:1	0.637	0.352	0.03	23.76	24.00	1.057	0.673	22.0
Left tilted	15	QPSK 1_38	26865/831.5	1:1	0.168	0.117	0.00	23.76	24.00	1.057	0.178	22.0
Right cheek	15	QPSK 1_38	26865/831.5	1:1	0.629	0.349	0.12	23.76	24.00	1.057	0.665	22.0
Right tilted	15	QPSK 1_38	26865/831.5	1:1	0.186	0.117	-0.13	23.76	24.00	1.057	0.197	22.0
Head Test Data (50%RB) State 5												
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.623	0.332	-0.08	22.56	23.00	1.107	0.689	22.0
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.160	0.111	-0.09	22.56	23.00	1.107	0.177	22.0
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.575	0.318	-0.13	22.56	23.00	1.107	0.636	22.0
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.182	0.114	-0.10	22.56	23.00	1.107	0.201	22.0
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	15	QPSK 1_38	26865/831.5	1:1	0.239	0.152	-0.12	23.76	24.00	1.057	0.253	22.4
Back side	15	QPSK 1_38	26865/831.5	1:1	0.296	0.200	-0.02	23.76	24.00	1.057	0.313	22.4
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.191	0.121	0.04	22.56	23.00	1.107	0.211	22.4
Back side	15	QPSK 36_0	26865/831.5	1:1	0.253	0.159	-0.02	22.56	23.00	1.107	0.280	22.4
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	15	QPSK 1_38	26865/831.5	1:1	0.262	0.157	-0.05	22.21	22.50	1.069	0.280	22.4
Back side	15	QPSK 1_38	26865/831.5	1:1	0.389	0.230	0.03	22.21	22.50	1.069	0.416	22.4
Right side	15	QPSK 1_38	26865/831.5	1:1	0.564	0.320	-0.13	22.21	22.50	1.069	0.603	22.4
Bottom side	15	QPSK 1_38	26865/831.5	1:1	0.021	0.011	0.07	22.21	22.50	1.069	0.022	22.4
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.263	0.158	0.03	22.16	22.50	1.081	0.284	22.4
Back side	15	QPSK 36_0	26865/831.5	1:1	0.403	0.237	-0.14	22.16	22.50	1.081	0.436	22.4
Right side	15	QPSK 36_0	26865/831.5	1:1	0.620	0.386	-0.06	22.16	22.50	1.081	0.670	22.4
Right side with Sample2	15	QPSK 36_0	26865/831.5	1:1	0.602	0.377	-0.08	22.16	22.50	1.081	0.651	22.4
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.025	0.013	-0.14	22.16	22.50	1.081	0.027	22.4
Ant 1 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.574	0.313	0.10	22.96	23.50	1.132	0.650	22.0
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.145	0.101	0.13	22.96	23.50	1.132	0.164	22.0
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.526	0.291	-0.17	22.96	23.50	1.132	0.596	22.0
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.163	0.102	-0.05	22.96	23.50	1.132	0.185	22.0



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 87 of 148

Head Test Data (50%RB) State 5												
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.630	0.352	-0.07	23.11	23.50	1.094	0.689	22.0
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.159	0.111	-0.09	23.11	23.50	1.094	0.174	22.0
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.576	0.319	0.14	23.11	23.50	1.094	0.630	22.0
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.175	0.111	0.09	23.11	23.50	1.094	0.191	22.0
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.194	0.117	0.03	22.96	23.50	1.132	0.220	22.4
Back side	15	QPSK 1_0	26865/831.5	1:1	0.271	0.165	-0.18	22.96	23.50	1.132	0.307	22.4
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.208	0.125	-0.12	23.11	23.50	1.094	0.228	22.4
Back side	15	QPSK 36_0	26865/831.5	1:1	0.342	0.226	0.15	23.11	23.50	1.094	0.374	22.4
Back side with Sample2	15	QPSK 36_0	26865/831.5	1:1	0.337	0.223	0.11	23.11	23.50	1.094	0.369	22.4
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.203	0.109	-0.01	21.73	22.00	1.064	0.216	22.4
Back side	15	QPSK 1_0	26865/831.5	1:1	0.319	0.182	0.13	21.73	22.00	1.064	0.339	22.4
Left side	15	QPSK 1_0	26865/831.5	1:1	0.463	0.252	0.00	21.73	22.00	1.064	0.493	22.4
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.016	0.007	0.12	21.73	22.00	1.064	0.017	22.4
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.236	0.132	-0.15	21.50	22.00	1.122	0.265	22.4
Back side	15	QPSK 36_0	26865/831.5	1:1	0.350	0.200	0.00	21.50	22.00	1.122	0.393	22.4
Left side	15	QPSK 36_0	26865/831.5	1:1	0.503	0.274	0.07	21.50	22.00	1.122	0.564	22.4
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.018	0.008	0.09	21.50	22.00	1.122	0.020	22.4



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 88 of 148

8.2.11 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record												
Ant 3 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	20	QPSK 1_50	40185/2549.5	1:1.58	0.409	0.201	-0.14	18.51	19.50	1.256	0.514	22.0
Left tilted	20	QPSK 1_50	40185/2549.5	1:1.58	0.507	0.245	0.06	18.51	19.50	1.256	0.637	22.0
Right cheek	20	QPSK 1_50	40185/2549.5	1:1.58	0.524	0.245	-0.16	18.51	19.50	1.256	0.658	22.0
Right tilted	20	QPSK 1_50	40185/2549.5	1:1.58	0.630	0.246	0.07	18.51	19.50	1.256	0.791	22.0
Left tilted	20	QPSK 1_50	39750/2506	1:1.58	0.415	0.205	-0.07	18.45	19.50	1.274	0.529	22.0
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.567	0.338	-0.14	18.46	19.50	1.271	0.720	22.0
Left tilted	20	QPSK 1_99	41055/2636.5	1:1.58	0.592	0.349	-0.03	18.51	19.50	1.256	0.744	22.0
Left tilted	20	QPSK 1_99	41490/2680	1:1.58	0.581	0.344	0.16	18.42	19.50	1.282	0.745	22.0
Right cheek	20	QPSK 1_50	39750/2506	1:1.58	0.429	0.215	-0.19	18.45	19.50	1.274	0.546	22.0
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.586	0.348	0.06	18.46	19.50	1.271	0.745	22.0
Right cheek	20	QPSK 1_99	41055/2636.5	1:1.58	0.618	0.353	0.12	18.51	19.50	1.256	0.776	22.0
Right cheek	20	QPSK 1_99	41490/2680	1:1.58	0.611	0.349	0.12	18.42	19.50	1.282	0.784	22.0
Right tilted	20	QPSK 1_50	39750/2506	1:1.58	0.516	0.198	-0.17	18.45	19.50	1.274	0.657	22.0
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.704	0.273	0.07	18.46	19.50	1.271	0.894	22.0
Right tilted	20	QPSK 1_99	41055/2636.5	1:1.58	0.735	0.282	-0.02	18.51	19.50	1.256	0.923	22.0
Right tilted	20	QPSK 1_99	41490/2680	1:1.58	0.734	0.282	0.11	18.42	19.50	1.282	0.941	22.0
Right tilted	20	QPSK PCC 1_0	41490/2680	1:1.58	0.711	0.277	0.08	18.33	19.50	1.309	0.931	22.0
		QPSK SCC 0_0	41292/2660.2									
Head Test Data (50%RB) State 5												
Left cheek	20	QPSK 50_25	40620/2593	1:1.58	0.449	0.226	-0.03	18.64	19.50	1.219	0.547	22.0
Left tilted	20	QPSK 50_25	40620/2593	1:1.58	0.584	0.268	-0.10	18.64	19.50	1.219	0.712	22.0
Right cheek	20	QPSK 50_25	40620/2593	1:1.58	0.573	0.270	0.09	18.64	19.50	1.219	0.698	22.0
Right tilted	20	QPSK 50_25	40620/2593	1:1.58	0.727	0.320	-0.01	18.64	19.50	1.219	0.886	22.0
Left tilted	20	QPSK 50_25	39750/2506	1:1.58	0.584	0.268	0.10	18.48	19.50	1.265	0.739	22.0
Left tilted	20	QPSK 50_0	40185/2549.5	1:1.58	0.437	0.198	-0.13	18.48	19.50	1.265	0.553	22.0
Left tilted	20	QPSK 50_50	41055/2636.5	1:1.58	0.500	0.230	-0.15	18.46	19.50	1.271	0.635	22.0
Left tilted	20	QPSK 50_50	41490/2680	1:1.58	0.610	0.276	-0.18	18.54	19.50	1.247	0.761	22.0
Right cheek	20	QPSK 50_25	39750/2506	1:1.58	0.573	0.270	-0.16	18.48	19.50	1.265	0.725	22.0
Right cheek	20	QPSK 50_0	40185/2549.5	1:1.58	0.429	0.200	0.01	18.48	19.50	1.265	0.543	22.0
Right cheek	20	QPSK 50_50	41055/2636.5	1:1.58	0.491	0.232	-0.07	18.46	19.50	1.271	0.624	22.0
Right cheek	20	QPSK 50_50	41490/2680	1:1.58	0.598	0.278	-0.05	18.54	19.50	1.247	0.746	22.0
Right tilted	20	QPSK 50_25	40620/2593	1:1.58	0.727	0.320	0.18	18.64	19.50	1.219	0.886	22.0
Right tilted	20	QPSK 50_25	39750/2506	1:1.58	0.544	0.237	-0.12	18.48	19.50	1.265	0.688	22.0
Right tilted	20	QPSK 50_0	40185/2549.5	1:1.58	0.623	0.275	0.19	18.48	19.50	1.265	0.788	22.0
Right tilted	20	QPSK 50_50	41055/2636.5	1:1.58	0.759	0.329	-0.06	18.46	19.50	1.271	0.964	22.0
Right tilted with Sample2	20	QPSK 50_50	41055/2636.5	1:1.58	0.736	0.317	-0.07	18.46	19.50	1.271	0.935	22.0
Right tilted	20	QPSK 50_50	41490/2680	1:1.58	0.752	0.326	0.01	18.54	19.50	1.247	0.938	22.0
Right tilted with HPUE	20	QPSK 50_50	41055/2636.5	1:2.31	0.688	0.303	-0.06	20.23	20.80	1.140	0.784	22.0
Head Test Data (100%RB) State 5												
Right tilted	20	QPSK 100_0	40620/2593	1:1.58	0.750	0.324	0.14	18.59	19.50	1.233	0.925	22.0
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	20	QPSK 1_99	39750/2506	1:1.58	0.266	0.140	-0.07	23.45	24.50	1.274	0.339	22.2
Back side	20	QPSK 1_99	39750/2506	1:1.58	0.402	0.215	0.08	23.45	24.50	1.274	0.512	22.2
Back side	20	QPSK PCC 1_0	39750/2506	1:1.58	0.269	0.148	-0.05	23.32	24.50	1.312	0.353	22.2
		QPSK SCC 0_0	39948/2525.8									
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.255	0.135	-0.06	23.57	24.50	1.239	0.316	22.2
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.436	0.242	0.03	23.57	24.50	1.239	0.540	22.2
Back side with Sample2	20	QPSK 50_0	40620/2593	1:1.58	0.428	0.238	0.03	23.57	24.50	1.239	0.530	22.2
Back side with HPUE	20	QPSK 50_50	40620/2593	1:2.31	0.374	0.199	0.05	24.93	25.30	1.089	0.407	22.2



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 89 of 148

Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.276	0.145	0.13	21.67	22.50	1.211	0.334	22.2
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.460	0.241	0.09	21.67	22.50	1.211	0.557	22.2
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.139	0.067	0.13	21.67	22.50	1.211	0.168	22.2
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.521	0.260	0.06	21.67	22.50	1.211	0.631	22.2
Top side	20	QPSK 1_0	39750/2506	1:1.58	0.519	0.259	-0.05	21.51	22.50	1.256	0.652	22.2
Top side	20	QPSK 1_50	40185/2549.5	1:1.58	0.557	0.289	0.07	21.52	22.50	1.253	0.698	22.2
Top side with Sample2	20	QPSK 1_50	40185/2549.5	1:1.58	0.539	0.280	0.02	21.52	22.50	1.253	0.675	22.2
Top side	20	QPSK 1_0	41055/2636.5	1:1.58	0.498	0.242	0.13	21.48	22.50	1.265	0.630	22.2
Top side	20	QPSK 1_0	41490/2680	1:1.58	0.493	0.230	0.03	21.60	22.50	1.230	0.607	22.2
Top side with HPUE	20	QPSK 1_0	40185/2549.5	1:2.31	0.579	0.292	0.11	23.34	23.80	1.112	0.655	22.2
Top side	20	QPSK PCC 1_0 QPSK SCC 0_0	40185/2549.5 40383/2569.3	1:1.58	0.538	0.274	0.12	21.42	22.50	1.282	0.690	22.2
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.273	0.143	0.17	21.70	22.50	1.202	0.328	22.2
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.463	0.241	-0.12	21.70	22.50	1.202	0.557	22.2
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.135	0.067	-0.19	21.70	22.50	1.202	0.162	22.2
Top side	20	QPSK 50_0	40620/2593	1:1.58	0.536	0.279	-0.04	21.70	22.50	1.202	0.644	22.2
Top side	20	QPSK 50_25	39750/2506	1:1.58	0.542	0.266	0.04	21.59	22.50	1.233	0.668	22.2
Top side	20	QPSK 50_25	40185/2549.5	1:1.58	0.564	0.294	0.07	21.59	22.50	1.233	0.695	22.2
Top side	20	QPSK 50_25	41055/2636.5	1:1.58	0.506	0.224	-0.06	21.50	22.50	1.259	0.637	22.2
Top side	20	QPSK 50_0	41490/2680	1:1.58	0.510	0.236	-0.14	21.55	22.50	1.245	0.635	22.2
Ant 4 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled SAR factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	20	QPSK 1_50	40620/2593	1:1.58	0.113	0.060	0.00	24.34	25.00	1.164	0.132	22.0
Left tilted	20	QPSK 1_50	40620/2593	1:1.58	0.010	0.002	-0.09	24.34	25.00	1.164	0.012	22.0
Right cheek	20	QPSK 1_50	40620/2593	1:1.58	0.061	0.036	0.07	24.34	25.00	1.164	0.071	22.0
Right tilted	20	QPSK 1_50	40620/2593	1:1.58	0.063	0.032	0.14	24.34	25.00	1.164	0.073	22.0
Left cheek with HPUE	20	QPSK 1_50	40620/2593	1:2.31	0.095	0.057	0.16	25.37	26.30	1.239	0.121	22.0
Left cheek	20	QPSK PCC 1_0 QPSK SCC 0_0	40620/2593 40422/2573.2	1:1.58	0.109	0.058	-0.11	24.46	25.00	1.132	0.123	22
Head Test Data (50%RB) State 5												
Left cheek	20	QPSK 50_0	40620/2593	1:1.58	0.090	0.048	-0.13	23.55	24.00	1.109	0.100	22.0
Left tilted	20	QPSK 50_0	40620/2593	1:1.58	0.008	0.003	0.12	23.55	24.00	1.109	0.009	22.0
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.053	0.031	0.00	23.55	24.00	1.109	0.059	22.0
Right tilted	20	QPSK 50_0	40620/2593	1:1.58	0.050	0.026	-0.04	23.55	24.00	1.109	0.055	22.0
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	20	QPSK 1_50	40620/2593	1:1.58	0.139	0.074	0.15	24.34	25.00	1.164	0.162	22.2
Back side	20	QPSK 1_50	40620/2593	1:1.58	0.176	0.092	-0.02	24.34	25.00	1.164	0.205	22.2
Back side with HPUE	20	QPSK 1_50	40620/2593	1:2.31	0.152	0.082	-0.05	25.37	26.30	1.239	0.201	22.2
Back side	20	QPSK PCC 1_0 QPSK SCC 0_0	40620/2593 40422/2573.2	1:1.58	0.179	0.101	0.14	24.46	25.00	1.132	0.203	22.2
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.130	0.071	0.10	23.55	24.00	1.109	0.144	22.2
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.140	0.074	0.13	23.55	24.00	1.109	0.155	22.2
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	20	QPSK 1_50	40620/2593	1:1.58	0.281	0.144	-0.14	24.34	25.00	1.164	0.327	22.2
Back side	20	QPSK 1_50	40620/2593	1:1.58	0.350	0.173	-0.06	24.34	25.00	1.164	0.407	22.2
Left side	20	QPSK 1_50	40620/2593	1:1.58	0.095	0.048	-0.01	24.34	25.00	1.164	0.111	22.2
Right side	20	QPSK 1_50	40620/2593	1:1.58	0.043	0.022	-0.17	24.34	25.00	1.164	0.050	22.2
Bottom side	20	QPSK 1_50	40620/2593	1:1.58	0.473	0.237	0.18	24.34	25.00	1.164	0.551	22.2
Bottom side with HPUE	20	QPSK 1_50	40620/2593	1:2.31	0.404	0.209	-0.01	25.37	26.30	1.239	0.545	22.2
Bottom side	20	QPSK PCC 1_0 QPSK SCC 0_0	40620/2593 40422/2573.2	1:1.58	0.479	0.245	0.02	24.46	25.00	1.132	0.542	22.2



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 90 of 148

Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.236	0.115	-0.11	23.55	24.00	1.109	0.262	22.2
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.281	0.139	0.09	23.55	24.00	1.109	0.312	22.2
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.073	0.038	0.03	23.55	24.00	1.109	0.081	22.2
Right side	20	QPSK 50_0	40620/2593	1:1.58	0.036	0.019	0.16	23.55	24.00	1.109	0.040	22.2
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.381	0.193	0.02	23.55	24.00	1.109	0.423	22.2
Ant 5 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	20	QPSK 1_0	39750/2506	1:1.58	0.606	0.324	0.01	21.75	22.80	1.274	0.772	22.2
Left tilted	20	QPSK 1_0	39750/2506	1:1.58	0.585	0.303	-0.06	21.75	22.80	1.274	0.745	22.2
Right cheek	20	QPSK 1_0	39750/2506	1:1.58	0.224	0.125	0.09	21.75	22.80	1.274	0.285	22.2
Right tilted	20	QPSK 1_0	39750/2506	1:1.58	0.275	0.142	0.04	21.75	22.80	1.274	0.350	22.2
Left cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.590	0.354	-0.18	21.71	22.80	1.285	0.758	22.2
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.600	0.323	-0.04	21.73	22.80	1.279	0.768	22.2
Left cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.543	0.286	-0.13	21.62	22.80	1.312	0.713	22.2
Left cheek	20	QPSK 1_0	41490/2680	1:1.58	0.447	0.227	-0.05	21.37	22.80	1.390	0.621	22.2
Left tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.570	0.331	-0.13	21.71	22.80	1.285	0.733	22.2
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.579	0.302	-0.09	21.73	22.80	1.279	0.741	22.2
Left tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.524	0.267	0.05	21.62	22.80	1.312	0.688	22.2
Left tilted	20	QPSK 1_0	41490/2680	1:1.58	0.432	0.212	-0.01	21.37	22.80	1.390	0.600	22.2
Left cheek with HPUE	20	QPSK 1_0	39750/2506	1:2.31	0.472	0.252	0.09	23.05	23.80	1.189	0.561	22.2
Left cheek	20	QPSK PCC 1_0 QPSK SCC 0_0	39750/2506 39948/2525.8	1:1.58	0.592	0.310	-0.15	21.86	22.80	1.242	0.735	22.2
Head Test Data (50%RB) State 5												
Left cheek	20	QPSK 50_50	39750/2506	1:1.58	0.524	0.269	0.16	20.79	21.80	1.262	0.661	22.2
Left tilted	20	QPSK 50_50	39750/2506	1:1.58	0.507	0.268	-0.15	20.79	21.80	1.262	0.640	22.2
Right cheek	20	QPSK 50_50	39750/2506	1:1.58	0.223	0.123	-0.02	20.79	21.80	1.262	0.281	22.2
Right tilted	20	QPSK 50_50	39750/2506	1:1.58	0.258	0.133	0.06	20.79	21.80	1.262	0.326	22.2
Left cheek	20	QPSK 50_50	40185/2549.5	1:1.58	0.496	0.262	0.12	20.62	21.80	1.312	0.651	22.2
Left cheek	20	QPSK 50_50	40620/2593	1:1.58	0.435	0.231	0.07	20.64	21.80	1.306	0.568	22.2
Left cheek	20	QPSK 50_50	41055/2636.5	1:1.58	0.360	0.190	-0.07	20.61	21.80	1.315	0.473	22.2
Left cheek	20	QPSK 50_50	41490/2680	1:1.58	0.176	0.093	-0.13	20.79	21.80	1.262	0.222	22.2
Left tilted	20	QPSK 50_50	40185/2549.5	1:1.58	0.480	0.261	-0.16	20.62	21.80	1.312	0.630	22.2
Left tilted	20	QPSK 50_50	40620/2593	1:1.58	0.421	0.230	0.09	20.64	21.80	1.306	0.550	22.2
Left tilted	20	QPSK 50_50	41055/2636.5	1:1.58	0.348	0.189	0.13	20.61	21.80	1.315	0.458	22.2
Left tilted	20	QPSK 50_50	41490/2680	1:1.58	0.170	0.093	-0.11	20.79	21.80	1.262	0.215	22.2
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	20	QPSK 1_0	39750/2506	1:1.58	0.062	0.034	-0.03	21.75	22.80	1.274	0.079	22.2
Back side	20	QPSK 1_0	39750/2506	1:1.58	0.057	0.028	-0.05	21.75	22.80	1.274	0.073	22.2
Front side with HPUE	20	QPSK 1_0	39750/2506	1:2.31	0.052	0.027	-0.11	23.05	23.80	1.189	0.062	22.2
Front side	20	QPSK PCC 1_0 QPSK SCC 0_0	39750/2506 39948/2525.8	1:1.58	0.052	0.029	-0.02	21.86	22.80	1.242	0.065	22.2
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	20	QPSK 50_50	39750/2506	1:1.58	0.060	0.032	-0.04	20.79	21.80	1.262	0.076	22.2
Back side	20	QPSK 50_50	39750/2506	1:1.58	0.046	0.025	-0.07	20.79	21.80	1.262	0.058	22.2
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	20	QPSK 1_0	39750/2506	1:1.58	0.131	0.066	-0.13	21.75	22.80	1.274	0.167	22.2
Back side	20	QPSK 1_0	39750/2506	1:1.58	0.106	0.055	-0.16	21.75	22.80	1.274	0.135	22.2
Right side	20	QPSK 1_0	39750/2506	1:1.58	0.060	0.029	0.06	21.75	22.80	1.274	0.076	22.2
Top side	20	QPSK 1_0	39750/2506	1:1.58	0.317	0.153	0.08	21.75	22.80	1.274	0.404	22.2
Top side with HPUE	20	QPSK 1_0	39750/2506	1:2.31	0.247	0.118	0.15	23.05	23.80	1.189	0.294	22.2
Top side	20	QPSK PCC 1_0 QPSK SCC 0_0	39750/2506 39948/2525.8	1:1.58	0.277	0.133	-0.13	21.86	22.80	1.242	0.344	22.2



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 91 of 148

Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	20	QPSK 50_50	39750/2506	1:1.58	0.116	0.059	-0.15	20.79	21.80	1.262	0.146	22.2
Back side	20	QPSK 50_50	39750/2506	1:1.58	0.091	0.047	-0.05	20.79	21.80	1.262	0.115	22.2
Right side	20	QPSK 50_50	39750/2506	1:1.58	0.042	0.021	0.10	20.79	21.80	1.262	0.053	22.2
Top side	20	QPSK 50_50	39750/2506	1:1.58	0.292	0.138	0.13	20.79	21.80	1.262	0.368	22.2



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 92 of 148

8.2.12 SAR Result of LTE Band 66

LTE Band 66 SAR Test Record												
Ant 3 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	20	QPSK 1_50	132322/1745	1:1	0.351	0.226	-0.01	18.71	19.00	1.069	0.375	22.0
Left tilted	20	QPSK 1_50	132322/1745	1:1	0.398	0.238	-0.14	18.71	19.00	1.069	0.425	22.0
Right cheek	20	QPSK 1_50	132322/1745	1:1	0.726	0.378	-0.02	18.71	19.00	1.069	0.776	22.0
Right cheek with Sample2	20	QPSK 1_50	132322/1745	1:1	0.702	0.367	-0.06	18.71	19.00	1.069	0.750	22.0
Right tilted	20	QPSK 1_50	132322/1745	1:1	0.711	0.365	-0.03	18.71	19.00	1.069	0.760	22.0
Right cheek	20	QPSK PCC 1_99	132322/1745	1:1	0.661	0.344	-0.12	18.36	19.00	1.159	0.766	22.4
		QPSK SCC 1_0	132520/1764.8									
Head Test Data (50%RB) State 5												
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.343	0.221	0.03	18.42	19.00	1.143	0.392	22.0
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.404	0.237	0.00	18.42	19.00	1.143	0.462	22.0
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.626	0.326	0.02	18.42	19.00	1.143	0.715	22.0
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.607	0.355	0.09	18.42	19.00	1.143	0.694	22.0
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	20	QPSK 1_50	132322/1745	1:1	0.163	0.101	-0.01	22.14	22.50	1.086	0.177	22.4
Back side	20	QPSK 1_50	132322/1745	1:1	0.226	0.138	0.11	22.14	22.50	1.086	0.246	22.4
Back side	20	QPSK PCC 1_99	132322/1745	1:1	0.202	0.123	-0.06	21.57	22.50	1.239	0.250	22.4
		QPSK SCC 1_0	132520/1764.8									
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	20	QPSK 50_0	132322/1745	1:1	0.170	0.106	0.10	22.04	22.50	1.112	0.189	22.4
Back side	20	QPSK 50_0	132322/1745	1:1	0.240	0.157	0.04	22.04	22.50	1.112	0.267	22.2
Back side with Sample2	20	QPSK 50_0	132322/1745	1:1	0.224	0.151	0.04	22.04	22.50	1.112	0.249	22.2
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	20	QPSK 1_50	132322/1745	1:1	0.184	0.106	0.10	20.29	20.50	1.050	0.193	22.4
Back side	20	QPSK 1_50	132322/1745	1:1	0.290	0.160	-0.16	20.29	20.50	1.050	0.304	22.4
Left side	20	QPSK 1_50	132322/1745	1:1	0.124	0.062	-0.05	20.29	20.50	1.050	0.130	22.4
Top side	20	QPSK 1_50	132322/1745	1:1	0.302	0.161	0.04	20.29	20.50	1.050	0.317	22.4
Top side	20	QPSK PCC 1_99	132322/1745	1:1	0.265	0.147	0.08	19.64	20.50	1.219	0.323	22.4
		QPSK SCC 1_0	132520/1764.8									
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	20	QPSK 50_0	132322/1745	1:1	0.182	0.105	-0.08	20.01	20.50	1.119	0.204	22.4
Back side	20	QPSK 50_0	132322/1745	1:1	0.287	0.159	0.09	20.01	20.50	1.119	0.321	22.4
Left side	20	QPSK 50_0	132322/1745	1:1	0.135	0.066	0.10	20.01	20.50	1.119	0.151	22.4
Top side	20	QPSK 50_0	132322/1745	1:1	0.295	0.161	0.16	20.01	20.50	1.119	0.330	22.4



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 93 of 148

Ant 4 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.100	0.063	0.09	24.43	25.00	1.140	0.114	22.0
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.069	0.043	0.04	24.43	25.00	1.140	0.079	22.0
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.103	0.065	0.08	24.43	25.00	1.140	0.117	22.0
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.063	0.037	-0.09	24.43	25.00	1.140	0.072	22.0
Right cheek	20	QPSK PCC 1_99	132322/1745	1:1	0.085	0.053	-0.03	23.94	25.00	1.276	0.108	22.4
		QPSK SCC 1_0	132520/1764.8									
Head Test Data (50%RB) State 5												
Left cheek	20	QPSK 50_25	132322/1745	1:1	0.086	0.053	0.00	23.45	24.00	1.135	0.098	22.0
Left tilted	20	QPSK 50_25	132322/1745	1:1	0.057	0.035	0.15	23.45	24.00	1.135	0.065	22.0
Right cheek	20	QPSK 50_25	132322/1745	1:1	0.091	0.057	0.00	23.45	24.00	1.135	0.103	22.0
Right tilted	20	QPSK 50_25	132322/1745	1:1	0.045	0.028	0.09	23.45	24.00	1.135	0.051	22.0
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	20	QPSK 1_0	132322/1745	1:1	0.159	0.092	-0.03	22.10	22.50	1.096	0.174	22.4
Back side	20	QPSK 1_0	132322/1745	1:1	0.180	0.105	-0.17	22.10	22.50	1.096	0.197	22.4
Back side	20	QPSK PCC 1_99	132322/1745	1:1	0.156	0.091	0.11	21.52	22.50	1.253	0.195	22.4
		QPSK SCC 1_0	132520/1764.8									
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	20	QPSK 50_25	132322/1745	1:1	0.163	0.097	0.14	21.95	22.50	1.135	0.185	22.4
Back side	20	QPSK 50_25	132322/1745	1:1	0.187	0.107	0.08	21.95	22.50	1.135	0.212	22.4
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	20	QPSK 1_0	132322/1745	1:1	0.192	0.110	-0.07	19.92	20.50	1.143	0.219	22.4
Back side	20	QPSK 1_0	132322/1745	1:1	0.248	0.139	0.12	19.92	20.50	1.143	0.283	22.4
Left side	20	QPSK 1_0	132322/1745	1:1	0.072	0.040	-0.06	19.92	20.50	1.143	0.082	22.4
Right side	20	QPSK 1_0	132322/1745	1:1	0.027	0.015	-0.17	19.92	20.50	1.143	0.031	22.4
Bottom side	20	QPSK 1_0	132322/1745	1:1	0.316	0.166	0.14	19.92	20.50	1.143	0.361	22.4
Bottom side	20	QPSK PCC 1_99	132322/1745	1:1	0.280	0.154	-0.10	19.47	20.50	1.268	0.355	22.4
		QPSK SCC 1_0	132520/1764.8									
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	20	QPSK 50_25	132322/1745	1:1	0.202	0.115	-0.04	19.88	20.50	1.153	0.233	22.4
Back side	20	QPSK 50_25	132322/1745	1:1	0.250	0.137	-0.07	19.88	20.50	1.153	0.288	22.4
Left side	20	QPSK 50_25	132322/1745	1:1	0.077	0.042	0.13	19.88	20.50	1.153	0.089	22.4
Right side	20	QPSK 50_25	132322/1745	1:1	0.031	0.017	-0.13	19.88	20.50	1.153	0.036	22.4
Bottom side	20	QPSK 50_25	132322/1745	1:1	0.322	0.182	0.19	19.88	20.50	1.153	0.371	22.2
Bottom side with Sample2	20	QPSK 50_25	132322/1745	1:1	0.316	0.180	0.19	19.88	20.50	1.153	0.364	22.2



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Report No.: SZCR241000395910

Page: 94 of 148

Ant 5 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	20	QPSK 1_0	132072/1720	1:1	0.599	0.332	0.02	21.79	22.80	1.262	0.756	22.0
Left tilted	20	QPSK 1_0	132072/1720	1:1	0.380	0.207	-0.02	21.79	22.80	1.262	0.479	22.0
Right cheek	20	QPSK 1_0	132072/1720	1:1	0.182	0.117	0.12	21.79	22.80	1.262	0.230	22.0
Right tilted	20	QPSK 1_0	132072/1720	1:1	0.230	0.142	0.00	21.79	22.80	1.262	0.290	22.0
Left cheek	20	QPSK PCC 1_99	132072/1720	1:1	0.602	0.334	0.08	21.86	22.80	1.242	0.747	22.0
		QPSK SCC 1_0	132270/1739.8									
Head Test Data (50%RB) State 5												
Left cheek	20	QPSK 50_0	132072/1720	1:1	0.568	0.309	0.06	21.78	22.80	1.265	0.718	22.0
Left tilted	20	QPSK 50_0	132072/1720	1:1	0.398	0.215	0.11	21.78	22.80	1.265	0.503	22.0
Right cheek	20	QPSK 50_0	132072/1720	1:1	0.188	0.121	0.05	21.78	22.80	1.265	0.238	22.0
Right tilted	20	QPSK 50_0	132072/1720	1:1	0.233	0.143	-0.09	21.78	22.80	1.265	0.295	22.0
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	20	QPSK 1_0	132322/1745	1:1	0.085	0.052	0.12	22.30	23.30	1.259	0.107	22.2
Back side	20	QPSK 1_0	132322/1745	1:1	0.099	0.062	-0.17	22.30	23.30	1.259	0.125	22.2
Back side	20	QPSK PCC 1_99	132322/1745	1:1	0.093	0.065	-0.05	22.22	23.30	1.282	0.119	22.2
		QPSK SCC 1_0	132520/1764.8									
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	20	QPSK 50_50	132072/1720	1:1	0.065	0.041	0.16	21.80	22.80	1.259	0.082	22.2
Back side	20	QPSK 50_50	132072/1720	1:1	0.079	0.050	-0.09	21.80	22.80	1.259	0.099	22.2
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	20	QPSK 1_50	132072/1720	1:1	0.069	0.039	0.02	20.26	21.30	1.271	0.088	22.2
Left side	20	QPSK 1_50	132072/1720	1:1	0.086	0.055	0.18	20.26	21.30	1.271	0.109	22.2
Right side	20	QPSK 1_50	132072/1720	1:1	0.085	0.042	-0.03	20.26	21.30	1.271	0.108	22.2
Top side	20	QPSK 1_50	132072/1720	1:1	0.090	0.051	-0.02	20.26	21.30	1.271	0.114	22.2
Top side	20	QPSK PCC 1_99	132072/1720	1:1	0.084	0.052	0.01	20.13	21.30	1.309	0.110	22.2
		QPSK SCC 1_0	132270/1739.8									
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	20	QPSK 50_50	132072/1720	1:1	0.074	0.041	0.07	20.33	21.30	1.250	0.093	22.2
Back side	20	QPSK 50_50	132072/1720	1:1	0.092	0.058	0.12	20.33	21.30	1.250	0.115	22.2
Right side	20	QPSK 50_50	132072/1720	1:1	0.073	0.037	0.14	20.33	21.30	1.250	0.091	22.2
Top side	20	QPSK 50_50	132072/1720	1:1	0.093	0.055	-0.12	20.33	21.30	1.250	0.116	22.2



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 95 of 148

8.2.13 SAR Result of NR Band n2

N2 SAR Test Record												
Ant3 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	20	QPSK 1_104	380000/1900	100%	0.385	0.247	0.04	18.18	18.90	1.180	0.454	22.0
Left tilted	20	QPSK 1_104	380000/1900	100%	0.467	0.279	0.19	18.18	18.90	1.180	0.551	22.0
Right cheek	20	QPSK 1_104	380000/1900	100%	0.776	0.408	0.14	18.18	18.90	1.180	0.916	22.0
Right tilted	20	QPSK 1_104	380000/1900	100%	0.723	0.352	0.06	18.18	18.90	1.180	0.853	22.0
Right cheek	20	QPSK 1_104	372000/1860	100%	0.724	0.390	0.02	18.14	18.90	1.191	0.862	22.0
Right cheek	20	QPSK 1_53	376000/1880	100%	0.807	0.429	0.00	18.14	18.90	1.191	0.961	22.0
Right tilted	20	QPSK 1_104	372000/1860	100%	0.768	0.376	-0.02	18.14	18.90	1.191	0.915	22.0
Right tilted	20	QPSK 1_53	376000/1880	100%	0.755	0.371	-0.01	18.14	18.90	1.191	0.899	22.0
Head Test Data (50%RB) State 5												
Left cheek	20	QPSK 50_28	372000/1860	100%	0.418	0.268	-0.14	18.12	18.90	1.197	0.500	22.0
Left tilted	20	QPSK 50_28	372000/1860	100%	0.473	0.290	-0.03	18.12	18.90	1.197	0.566	22.0
Right cheek	20	QPSK 50_28	372000/1860	100%	0.797	0.423	0.04	18.12	18.90	1.197	0.954	22.0
Right tilted	20	QPSK 50_28	372000/1860	100%	0.874	0.429	-0.06	18.12	18.90	1.197	1.046	22.0
Right tilted-Repeated	20	QPSK 50_28	372000/1860	100%	0.855	0.419	-0.02	18.12	18.90	1.197	1.023	22.0
Right tilted with Sample2	20	QPSK 50_28	372000/1860	100%	0.851	0.416	-0.09	18.12	18.90	1.197	1.018	22.0
Right cheek	20	QPSK 50_28	376000/1880	100%	0.727	0.392	-0.07	18.05	18.90	1.216	0.884	22.0
Right cheek	20	QPSK 50_28	380000/1900	100%	0.733	0.385	-0.07	18.00	18.90	1.230	0.902	22.0
Right tilted	20	QPSK 50_28	376000/1880	100%	0.715	0.388	-0.15	18.05	18.90	1.216	0.870	22.0
Right tilted	20	QPSK 50_28	380000/1900	100%	0.724	0.394	0.07	18.00	18.90	1.230	0.891	22.0
Head Test Data (100%RB) State 5												
Right cheek	20	QPSK 100_0	380000/1900	100%	0.615	0.358	-0.10	17.14	17.90	1.191	0.733	22.0
Right tilted	20	QPSK 100_0	380000/1900	100%	0.625	0.327	-0.08	17.14	17.90	1.191	0.745	22.0
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	20	QPSK 1_104	380000/1900	100%	0.093	0.055	0.15	20.18	20.90	1.180	0.110	22.0
Back side	20	QPSK 1_104	380000/1900	100%	0.149	0.087	-0.16	20.18	20.90	1.180	0.176	22.0
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	20	QPSK 50_28	372000/1860	100%	0.098	0.058	0.19	20.09	20.90	1.205	0.118	22.0
Back side	20	QPSK 50_28	372000/1860	100%	0.162	0.095	0.19	20.09	20.90	1.205	0.195	22.0
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	20	QPSK 1_1	376000/1880	100%	0.143	0.083	-0.16	18.67	19.40	1.183	0.169	22.0
Back side	20	QPSK 1_1	376000/1880	100%	0.248	0.140	0.06	18.67	19.40	1.183	0.293	22.0
Left side	20	QPSK 1_1	376000/1880	100%	0.104	0.053	0.07	18.67	19.40	1.183	0.123	22.0
Top side	20	QPSK 1_1	376000/1880	100%	0.336	0.171	-0.11	18.67	19.40	1.183	0.398	22.0
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	20	QPSK 50_28	372000/1860	100%	0.137	0.081	0.18	18.56	19.40	1.213	0.166	22.0
Back side	20	QPSK 50_28	372000/1860	100%	0.245	0.136	-0.03	18.56	19.40	1.213	0.297	22.0
Left side	20	QPSK 50_28	372000/1860	100%	0.098	0.049	-0.10	18.56	19.40	1.213	0.119	22.0
Top side	20	QPSK 50_28	372000/1860	100%	0.326	0.166	-0.09	18.56	19.40	1.213	0.396	22.0



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 96 of 148

Ant4 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	20	QPSK 1_53	380000/1900	100%	0.130	0.083	0.18	23.75	24.40	1.161	0.151	22.0
Left tilted	20	QPSK 1_53	380000/1900	100%	0.088	0.055	-0.15	23.75	24.40	1.161	0.102	22.0
Right cheek	20	QPSK 1_53	380000/1900	100%	0.114	0.070	-0.09	23.75	24.40	1.161	0.132	22.0
Right tilted	20	QPSK 1_53	380000/1900	100%	0.091	0.056	-0.10	23.75	24.40	1.161	0.106	22.0
Head Test Data (50%RB) State 5												
Left cheek	20	QPSK 50_28	380000/1900	100%	0.133	0.084	0.04	23.82	24.40	1.143	0.152	22.0
Left tilted	20	QPSK 50_28	380000/1900	100%	0.087	0.055	0.08	23.82	24.40	1.143	0.099	22.0
Right cheek	20	QPSK 50_28	380000/1900	100%	0.114	0.070	-0.09	23.82	24.40	1.143	0.130	22.0
Right tilted	20	QPSK 50_28	380000/1900	100%	0.101	0.061	0.06	23.82	24.40	1.143	0.115	22.0
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	20	QPSK 1_1	372000/1860	100%	0.184	0.109	0.13	20.77	21.40	1.156	0.213	22.0
Back side	20	QPSK 1_1	372000/1860	100%	0.341	0.200	0.08	20.77	21.40	1.156	0.394	22.0
Back side with Sample2	20	QPSK 1_1	372000/1860	100%	0.337	0.197	0.05	20.77	21.40	1.156	0.390	22.0
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	20	QPSK 50_28	380000/1900	100%	0.192	0.111	0.02	20.94	21.40	1.112	0.213	22.0
Back side	20	QPSK 50_28	380000/1900	100%	0.227	0.131	-0.13	20.94	21.40	1.112	0.252	22.0
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	20	QPSK 1_53	380000/1900	100%	0.280	0.151	0.18	19.35	19.90	1.135	0.318	22.0
Back side	20	QPSK 1_53	380000/1900	100%	0.318	0.170	-0.02	19.35	19.90	1.135	0.361	22.0
Left side	20	QPSK 1_53	380000/1900	100%	0.077	0.042	0.07	19.35	19.90	1.135	0.087	22.0
Right side	20	QPSK 1_53	380000/1900	100%	0.017	0.008	-0.07	19.35	19.90	1.135	0.019	22.0
Bottom side	20	QPSK 1_53	380000/1900	100%	0.374	0.204	0.14	19.35	19.90	1.135	0.424	22.0
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	20	QPSK 50_28	380000/1900	100%	0.250	0.140	0.14	19.47	19.90	1.104	0.276	22.0
Back side	20	QPSK 50_28	380000/1900	100%	0.308	0.171	-0.19	19.47	19.90	1.104	0.340	22.0
Left side	20	QPSK 50_28	380000/1900	100%	0.061	0.031	0.04	19.47	19.90	1.104	0.067	22.0
Right side	20	QPSK 50_28	380000/1900	100%	0.012	0.006	0.15	19.47	19.90	1.104	0.013	22.0
Bottom side	20	QPSK 50_28	380000/1900	100%	0.411	0.225	-0.15	19.47	19.90	1.104	0.454	22.0
Bottom side with Sample2	20	QPSK 50_28	380000/1900	100%	0.402	0.221	-0.11	19.47	19.90	1.104	0.444	22.0

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	372000/1860	0.874	0.855	1.022	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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8.2.14 SAR Result of NR Band n7

N7 SAR Test Record												
Ant3 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	50	QPSK 1_1	505000/2525	100%	0.467	0.248	0.01	16.76	17.50	1.186	0.554	22
Left tilted	50	QPSK 1_1	505000/2525	100%	0.531	0.274	-0.15	16.76	17.50	1.186	0.630	22
Right cheek	50	QPSK 1_1	505000/2525	100%	0.653	0.327	0.03	16.76	17.50	1.186	0.774	22
Right tilted	50	QPSK 1_1	505000/2525	100%	0.694	0.343	-0.04	16.76	17.50	1.186	0.823	22
Right tilted	50	QPSK 1_1	507000/2535	100%	0.696	0.343	-0.09	16.62	17.50	1.225	0.852	22
Right tilted	50	QPSK 1_1	509000/2545	100%	0.794	0.351	0.09	16.66	17.50	1.213	0.963	22
Head Test Data (50%RB) State 5												
Left cheek	50	QPSK 135_67	505000/2525	100%	0.488	0.253	-0.12	16.86	17.50	1.159	0.565	22
Left tilted	50	QPSK 135_67	505000/2525	100%	0.541	0.277	-0.15	16.86	17.50	1.159	0.627	22
Right cheek	50	QPSK 135_67	505000/2525	100%	0.744	0.362	-0.19	16.86	17.50	1.159	0.862	22
Right tilted	50	QPSK 135_67	505000/2525	100%	0.762	0.343	-0.06	16.86	17.50	1.159	0.883	22
Right cheek	50	QPSK 135_67	507000/2535	100%	0.731	0.335	0.16	16.69	17.50	1.205	0.881	22
Right cheek	50	QPSK 135_67	509000/2545	100%	0.766	0.374	0.10	16.83	17.50	1.167	0.894	22
Right tilted	50	QPSK 135_67	507000/2535	100%	0.877	0.388	0.08	16.69	17.50	1.205	1.057	22
Right tilted-Repeated	50	QPSK 135_67	507000/2535	100%	0.852	0.398	0.06	16.69	17.50	1.205	1.027	22
Right tilted with Sample2	50	QPSK 135_67	507000/2535	100%	0.864	0.381	0.03	16.69	17.50	1.205	1.041	22
Right tilted	50	QPSK 135_67	509000/2545	100%	0.845	0.373	0.02	16.83	17.50	1.167	0.986	22
Head Test Data (100%RB) State 5												
Right cheek	50	QPSK 270_0	509000/2545	100%	0.593	0.290	0.14	15.63	16.50	1.222	0.725	22
Right tilted	50	QPSK 270_0	509000/2545	100%	0.563	0.279	-0.19	15.63	16.50	1.222	0.688	22
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	50	QPSK 1_1	505000/2525	100%	0.161	0.089	0.00	19.68	20.50	1.208	0.194	22
Back side	50	QPSK 1_1	505000/2525	100%	0.197	0.102	-0.09	19.68	20.50	1.208	0.238	22
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	50	QPSK 135_67	509000/2545	100%	0.165	0.091	0.04	19.77	20.50	1.183	0.195	22
Back side	50	QPSK 135_67	509000/2545	100%	0.206	0.106	-0.15	19.77	20.50	1.183	0.244	22
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	50	QPSK 1_135	505000/2525	100%	0.195	0.105	0.13	18.36	19.00	1.159	0.226	22
Back side	50	QPSK 1_135	505000/2525	100%	0.326	0.175	-0.13	18.36	19.00	1.159	0.378	22
Left side	50	QPSK 1_135	505000/2525	100%	0.073	0.038	-0.08	18.36	19.00	1.159	0.085	22
Top side	50	QPSK 1_135	505000/2525	100%	0.343	0.171	0.07	18.36	19.00	1.159	0.397	22
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	50	QPSK 135_67	505000/2525	100%	0.203	0.108	0.03	18.40	19.00	1.148	0.233	22
Back side	50	QPSK 135_67	505000/2525	100%	0.342	0.182	0.04	18.40	19.00	1.148	0.393	22
Left side	50	QPSK 135_67	505000/2525	100%	0.092	0.045	-0.07	18.40	19.00	1.148	0.106	22
Top side	50	QPSK 135_67	505000/2525	100%	0.367	0.184	0.13	18.40	19.00	1.148	0.421	22



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 98 of 148

Ant4 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	50	QPSK 1_135	505000/2525	100%	0.230	0.123	0.12	24.46	25.00	1.132	0.260	22
Left tilted	50	QPSK 1_135	505000/2525	100%	0.072	0.037	0.11	24.46	25.00	1.132	0.082	22
Right cheek	50	QPSK 1_135	505000/2525	100%	0.130	0.079	0.18	24.46	25.00	1.132	0.147	22
Right tilted	50	QPSK 1_135	505000/2525	100%	0.133	0.070	0.09	24.46	25.00	1.132	0.151	22
Head Test Data (50%RB) State 5												
Left cheek	50	QPSK 135_67	509000/2545	100%	0.232	0.123	0.06	24.50	25.00	1.122	0.260	22
Left tilted	50	QPSK 135_67	509000/2545	100%	0.081	0.041	-0.11	24.50	25.00	1.122	0.091	22
Right cheek	50	QPSK 135_67	509000/2545	100%	0.131	0.077	-0.12	24.50	25.00	1.122	0.147	22
Right tilted	50	QPSK 135_67	509000/2545	100%	0.135	0.071	0.09	24.50	25.00	1.122	0.151	22
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	50	QPSK 1_135	505000/2525	100%	0.193	0.109	0.08	23.00	23.50	1.122	0.217	22
Back side	50	QPSK 1_135	505000/2525	100%	0.207	0.114	0.05	23.00	23.50	1.122	0.232	22
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	50	QPSK 135_67	509000/2545	100%	0.217	0.115	0.12	22.97	23.50	1.130	0.245	22
Back side	50	QPSK 135_67	509000/2545	100%	0.220	0.119	0.03	22.97	23.50	1.130	0.249	22
Back side with Sample2	50	QPSK 135_67	509000/2545	100%	0.214	0.115	0.07	22.97	23.50	1.130	0.242	22
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	50	QPSK 1_1	505000/2525	100%	0.288	0.152	-0.04	21.45	22.00	1.135	0.327	22
Back side	50	QPSK 1_1	505000/2525	100%	0.390	0.192	0.06	21.45	22.00	1.135	0.443	22
Left side	50	QPSK 1_1	505000/2525	100%	0.081	0.042	0.05	21.45	22.00	1.135	0.092	22
Right side	50	QPSK 1_1	505000/2525	100%	0.023	0.011	-0.18	21.45	22.00	1.135	0.026	22
Bottom side	50	QPSK 1_1	505000/2525	100%	0.402	0.213	0.09	21.45	22.00	1.135	0.456	22
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	50	QPSK 135_67	509000/2545	100%	0.294	0.151	-0.16	21.50	22.00	1.122	0.330	22
Back side	50	QPSK 135_67	509000/2545	100%	0.390	0.195	0.03	21.50	22.00	1.122	0.438	22
Left side	50	QPSK 135_67	509000/2545	100%	0.134	0.068	0.04	21.50	22.00	1.122	0.150	22
Right side	50	QPSK 135_67	509000/2545	100%	0.029	0.015	0.05	21.50	22.00	1.122	0.033	22
Bottom side	50	QPSK 135_67	509000/2545	100%	0.418	0.216	0.17	21.50	22.00	1.122	0.469	22
Bottom side with Sample2	50	QPSK 135_67	509000/2545	100%	0.403	0.209	0.17	21.50	22.00	1.122	0.452	22
Ant5 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	50	QPSK 1_1	507000/2535	100%	0.580	0.283	-0.09	20.03	21.70	1.469	0.852	22
Left tilted	50	QPSK 1_1	507000/2535	100%	0.478	0.248	0.08	20.03	21.70	1.469	0.702	22
Right cheek	50	QPSK 1_1	507000/2535	100%	0.254	0.140	0.13	20.03	21.70	1.469	0.373	22
Right tilted	50	QPSK 1_1	507000/2535	100%	0.285	0.146	-0.16	20.03	21.70	1.469	0.419	22
Left cheek	50	QPSK 1_135	505000/2525	100%	0.630	0.305	-0.17	19.95	21.70	1.496	0.943	22
Left cheek	50	QPSK 1_1	509000/2545	100%	0.611	0.295	-0.01	19.89	21.70	1.517	0.927	22
Head Test Data (50%RB) State 5												
Left cheek	50	QPSK 135_67	509000/2545	100%	0.608	0.303	-0.05	20.12	21.70	1.439	0.875	22



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 99 of 148

Left tilted	50	QPSK 135_67	509000/2545	100%	0.542	0.281	0.01	20.12	21.70	1.439	0.780	22
Right cheek	50	QPSK 135_67	509000/2545	100%	0.305	0.170	0.03	20.12	21.70	1.439	0.439	22
Right tilted	50	QPSK 135_67	509000/2545	100%	0.325	0.166	-0.19	20.12	21.70	1.439	0.468	22
Left cheek	50	QPSK 135_67	505000/2525	100%	0.630	0.307	0.10	19.94	21.70	1.500	0.945	22
Left cheek	50	QPSK 135_67	507000/2535	100%	0.649	0.312	0.09	20.04	21.70	1.466	0.951	22
Head Test Data (100%RB) State 5												
Left cheek	50	QPSK 270_0	509000/2545	100%	0.497	0.252	-0.02	19.01	20.70	1.476	0.733	22
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	50	QPSK 1_1	507000/2535	100%	0.092	0.049	-0.13	21.97	23.70	1.489	0.137	22
Back side	50	QPSK 1_1	507000/2535	100%	0.095	0.051	0.05	21.97	23.70	1.489	0.141	22
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	50	QPSK 135_67	509000/2545	100%	0.110	0.058	-0.15	21.98	23.70	1.486	0.163	22
Back side	50	QPSK 135_67	509000/2545	100%	0.127	0.068	0.01	21.98	23.70	1.486	0.189	22
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	50	QPSK 1_135	507000/2535	100%	0.204	0.106	0.15	21.54	23.20	1.466	0.299	22
Back side	50	QPSK 1_135	507000/2535	100%	0.261	0.130	-0.16	21.54	23.20	1.466	0.383	22
Right side	50	QPSK 1_135	507000/2535	100%	0.083	0.039	0.04	21.54	23.20	1.466	0.122	22
Top side	50	QPSK 1_135	507000/2535	100%	0.289	0.136	0.13	21.54	23.20	1.466	0.424	22
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	50	QPSK 135_67	509000/2545	100%	0.204	0.107	0.07	21.51	23.20	1.476	0.301	22
Back side	50	QPSK 135_67	509000/2545	100%	0.293	0.149	0.02	21.51	23.20	1.476	0.432	22
Right side	50	QPSK 135_67	509000/2545	100%	0.091	0.043	0.13	21.51	23.20	1.476	0.134	22
Top side	50	QPSK 135_67	509000/2545	100%	0.314	0.179	0.06	21.51	23.20	1.476	0.463	22

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	507000/2535	0.877	0.852	1.029	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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8.2.15 SAR Result of NR Band n12

N12 SAR Test Record												
Ant0 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	15	QPSK 1_40	141300/706.5	100%	0.252	0.139	0.03	23.80	24.40	1.148	0.289	22
Left tilted	15	QPSK 1_40	141300/706.5	100%	0.076	0.047	-0.17	23.80	24.40	1.148	0.087	22
Right cheek	15	QPSK 1_40	141300/706.5	100%	0.246	0.131	0.11	23.80	24.40	1.148	0.282	22
Right tilted	15	QPSK 1_40	141300/706.5	100%	0.067	0.045	-0.12	23.80	24.40	1.148	0.077	22
Head Test Data (50%RB) State 5												
Left cheek	15	QPSK 36_22	141700/708.5	100%	0.233	0.131	-0.13	23.66	24.40	1.186	0.276	22
Left tilted	15	QPSK 36_22	141700/708.5	100%	0.085	0.053	-0.11	23.66	24.40	1.186	0.101	22
Right cheek	15	QPSK 36_22	141700/708.5	100%	0.224	0.121	-0.18	23.66	24.40	1.186	0.266	22
Right tilted	15	QPSK 36_22	141700/708.5	100%	0.066	0.046	0.09	23.66	24.40	1.186	0.078	22
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	15	QPSK 1_40	141300/706.5	100%	0.098	0.063	0.15	23.80	24.40	1.148	0.113	22
Back side	15	QPSK 1_40	141300/706.5	100%	0.147	0.089	-0.13	23.80	24.40	1.148	0.169	22
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	15	QPSK 36_22	141700/708.5	100%	0.100	0.062	-0.13	23.66	24.40	1.186	0.119	22
Back side	15	QPSK 36_22	141700/708.5	100%	0.147	0.090	-0.02	23.66	24.40	1.186	0.174	22
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	15	QPSK 1_40	141300/706.5	100%	0.158	0.092	-0.06	23.80	24.40	1.148	0.181	22
Back side	15	QPSK 1_40	141300/706.5	100%	0.247	0.143	-0.03	23.80	24.40	1.148	0.284	22
Right side	15	QPSK 1_40	141300/706.5	100%	0.314	0.175	0.03	23.80	24.40	1.148	0.361	22
Bottom side	15	QPSK 1_40	141300/706.5	100%	0.011	0.005	-0.04	23.80	24.40	1.148	0.013	22
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	15	QPSK 36_22	141700/708.5	100%	0.180	0.107	0.08	23.66	24.40	1.186	0.213	22
Back side	15	QPSK 36_22	141700/708.5	100%	0.291	0.172	-0.12	23.66	24.40	1.186	0.345	22
Right side	15	QPSK 36_22	141700/708.5	100%	0.303	0.166	-0.09	23.66	24.40	1.186	0.359	22
Bottom side	15	QPSK 36_22	141700/708.5	100%	0.015	0.009	-0.12	23.66	24.40	1.186	0.018	22
Ant1 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	15	QPSK 1_1	141300/706.5	100%	0.264	0.139	-0.02	23.95	25.00	1.274	0.336	22
Left tilted	15	QPSK 1_1	141300/706.5	100%	0.066	0.045	-0.10	23.95	25.00	1.274	0.084	22
Right cheek	15	QPSK 1_1	141300/706.5	100%	0.283	0.162	-0.09	23.95	25.00	1.274	0.360	22
Right tilted	15	QPSK 1_1	141300/706.5	100%	0.070	0.044	-0.13	23.95	25.00	1.274	0.089	22
Head Test Data (50%RB) State 5												
Left cheek	15	QPSK 36_22	141300/706.5	100%	0.323	0.175	-0.18	23.99	25.00	1.262	0.408	22
Left tilted	15	QPSK 36_22	141300/706.5	100%	0.080	0.054	0.18	23.99	25.00	1.262	0.101	22
Right cheek	15	QPSK 36_22	141300/706.5	100%	0.358	0.207	0.04	23.99	25.00	1.262	0.452	22



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 101 of 148

Right cheek with Sample2	15	QPSK 36_22	141300/706.5	100%	0.352	0.205	0.09	23.99	25.00	1.262	0.444	22
Right tilted	15	QPSK 36_22	141300/706.5	100%	0.079	0.049	0.15	23.99	25.00	1.262	0.100	22
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	15	QPSK 1_1	141300/706.5	100%	0.094	0.057	-0.10	23.95	25.00	1.274	0.120	22
Back side	15	QPSK 1_1	141300/706.5	100%	0.142	0.086	-0.05	23.95	25.00	1.274	0.181	22
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	15	QPSK 36_22	141300/706.5	100%	0.127	0.079	0.10	23.99	25.00	1.262	0.160	22
Back side	15	QPSK 36_22	141300/706.5	100%	0.208	0.143	-0.04	23.99	25.00	1.262	0.262	22
Back side with Sample2	15	QPSK 36_22	141300/706.5	100%	0.201	0.139	-0.06	23.99	25.00	1.262	0.254	22
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	15	QPSK 1_1	141700/708.5	100%	0.141	0.083	0.07	23.06	24.00	1.242	0.175	22
Back side	15	QPSK 1_1	141700/708.5	100%	0.211	0.119	-0.16	23.06	24.00	1.242	0.262	22
Left side	15	QPSK 1_1	141700/708.5	100%	0.371	0.195	-0.12	23.06	24.00	1.242	0.461	22
Bottom side	15	QPSK 1_1	141700/708.5	100%	0.012	0.008	0.01	23.06	24.00	1.242	0.015	22
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	15	QPSK 36_22	141300/706.5	100%	0.176	0.103	0.05	23.11	24.00	1.227	0.216	22
Back side	15	QPSK 36_22	141300/706.5	100%	0.261	0.151	0.16	23.11	24.00	1.227	0.320	22
Left side	15	QPSK 36_22	141300/706.5	100%	0.559	0.355	-0.02	23.11	24.00	1.227	0.686	22
Left side with Sample2	15	QPSK 36_22	141300/706.5	100%	0.533	0.342	-0.09	23.11	24.00	1.227	0.654	22
Bottom side	15	QPSK 36_22	141300/706.5	100%	0.010	0.005	-0.15	23.11	24.00	1.227	0.012	22



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 102 of 148

8.2.16 SAR Result of NR Band n26

N26 SAR Test Record												
Ant 0 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	20	QPSK 1_53	164800/824	100%	0.588	0.326	0.10	23.46	24.40	1.242	0.730	22
Left tilted	20	QPSK 1_53	164800/824	100%	0.193	0.116	-0.01	23.46	24.40	1.242	0.240	22
Right cheek	20	QPSK 1_53	164800/824	100%	0.627	0.338	-0.16	23.46	24.40	1.242	0.779	22
Right tilted	20	QPSK 1_53	164800/824	100%	0.167	0.112	-0.08	23.46	24.40	1.242	0.207	22
Head Test Data (50%RB) State 5												
Left cheek	20	QPSK 50_28	166300/831.5	100%	0.575	0.322	0.14	23.54	24.40	1.219	0.701	22
Left tilted	20	QPSK 50_28	166300/831.5	100%	0.217	0.135	0.18	23.54	24.40	1.219	0.265	22
Right cheek	20	QPSK 50_28	166300/831.5	100%	0.789	0.409	-0.12	23.54	24.40	1.219	0.962	22
Right tilted	20	QPSK 50_28	166300/831.5	100%	0.205	0.143	-0.04	23.54	24.40	1.219	0.250	22
Right cheek	20	QPSK 50_28	164800/824	100%	0.725	0.377	0.03	23.44	24.40	1.247	0.904	22
Right cheek	20	QPSK 50_28	167800/839	100%	0.815	0.471	-0.03	23.45	24.40	1.245	1.014	22
Right cheek with Sample2	20	QPSK 50_28	167800/839	100%	0.802	0.463	-0.07	23.45	24.40	1.245	0.998	22
Head Test Data (100%RB) State 5												
Right cheek	20	QPSK 100_0	166300/831.5	100%	0.561	0.332	0.13	22.57	23.40	1.211	0.679	22
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	20	QPSK 1_53	164800/824	100%	0.249	0.159	0.04	23.46	24.40	1.242	0.309	22
Back side	20	QPSK 1_53	164800/824	100%	0.352	0.217	0.08	23.46	24.40	1.242	0.437	22
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	20	QPSK 50_28	166300/831.5	100%	0.263	0.166	0.12	23.54	24.40	1.219	0.321	22
Back side	20	QPSK 50_28	166300/831.5	100%	0.447	0.299	-0.03	23.54	24.40	1.219	0.545	22
Back side with Sample2	20	QPSK 50_28	166300/831.5	100%	0.432	0.290	-0.10	23.54	24.40	1.219	0.527	22
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	20	QPSK 1_53	164800/824	100%	0.284	0.170	-0.04	22.04	22.90	1.219	0.346	22
Back side	20	QPSK 1_53	164800/824	100%	0.410	0.239	0.00	22.04	22.90	1.219	0.500	22
Right side	20	QPSK 1_53	164800/824	100%	0.573	0.326	-0.12	22.04	22.90	1.219	0.698	22
Bottom side	20	QPSK 1_53	164800/824	100%	0.010	0.008	-0.09	22.04	22.90	1.219	0.012	22
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	20	QPSK 50_28	166300/831.5	100%	0.303	0.176	-0.17	22.10	22.90	1.202	0.364	22
Back side	20	QPSK 50_28	166300/831.5	100%	0.451	0.263	0.14	22.10	22.90	1.202	0.542	22
Right side	20	QPSK 50_28	166300/831.5	100%	0.630	0.395	-0.02	22.10	22.90	1.202	0.757	22
Right side with Sample2	20	QPSK 50_28	166300/831.5	100%	0.612	0.388	-0.09	22.10	22.90	1.202	0.736	22
Bottom side	20	QPSK 50_28	166300/831.5	100%	0.016	0.011	0.04	22.10	22.90	1.202	0.019	22



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 103 of 148

Ant 1 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	20	QPSK 1_1	167800/839	100%	0.822	0.458	-0.03	23.39	24.00	1.151	0.946	22
Left tilted	20	QPSK 1_1	167800/839	100%	0.162	0.110	0.15	23.39	24.00	1.151	0.186	22
Right cheek	20	QPSK 1_1	167800/839	100%	0.827	0.470	0.15	23.39	24.00	1.151	0.952	22
Right tilted	20	QPSK 1_1	167800/839	100%	0.185	0.115	-0.02	23.39	24.00	1.151	0.213	22
Left cheek	20	QPSK 1_53	164800/824	100%	0.715	0.388	-0.03	23.35	24.00	1.161	0.830	22
Left cheek	20	QPSK 1_53	166300/831.5	100%	0.727	0.404	-0.01	23.38	24.00	1.153	0.839	22
Right cheek	20	QPSK 1_53	164800/824	100%	0.686	0.392	0.03	23.35	24.00	1.161	0.797	22
Right cheek	20	QPSK 1_53	166300/831.5	100%	0.759	0.435	0.05	23.38	24.00	1.153	0.875	22
Head Test Data (50%RB) State 5												
Left cheek	20	QPSK 50_28	167800/839	100%	0.837	0.470	0.12	23.54	24.00	1.112	0.931	22
Left cheek-Repeated	20	QPSK 50_28	167800/839	100%	0.753	0.423	-0.04	23.54	24.00	1.112	0.837	22
Left tilted	20	QPSK 50_28	167800/839	100%	0.171	0.117	0.10	23.54	24.00	1.112	0.190	22
Right cheek	20	QPSK 50_28	167800/839	100%	0.815	0.430	0.08	23.54	24.00	1.112	0.906	22
Right tilted	20	QPSK 50_28	167800/839	100%	0.193	0.120	0.02	23.54	24.00	1.112	0.215	22
Left cheek	20	QPSK 50_28	164800/824	100%	0.697	0.377	-0.06	23.44	24.00	1.138	0.793	22
Left cheek	20	QPSK 50_28	166300/831.5	100%	0.731	0.428	-0.18	23.45	24.00	1.135	0.830	22
Right cheek	20	QPSK 50_28	164800/824	100%	0.709	0.408	0.07	23.44	24.00	1.138	0.807	22
Right cheek	20	QPSK 50_28	166300/831.5	100%	0.761	0.433	0.03	23.45	24.00	1.135	0.864	22
Head Test Data (100%RB) State 5												
Left cheek	20	QPSK 100_0	166300/831.5	100%	0.638	0.346	0.00	22.47	23.00	1.130	0.721	22
Right cheek	20	QPSK 100_0	166300/831.5	100%	0.651	0.352	-0.19	22.47	23.00	1.130	0.735	22
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	20	QPSK 1_1	167800/839	100%	0.226	0.136	0.07	22.87	23.50	1.156	0.261	22
Back side	20	QPSK 1_1	167800/839	100%	0.329	0.197	-0.02	22.87	23.50	1.156	0.380	22
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	20	QPSK 50_28	167800/839	100%	0.251	0.149	-0.16	22.94	23.50	1.138	0.286	22
Back side	20	QPSK 50_28	167800/839	100%	0.337	0.203	-0.17	22.94	23.50	1.138	0.383	22
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	20	QPSK 1_104	166300/831.5	100%	0.282	0.154	-0.18	21.40	22.00	1.148	0.324	22
Back side	20	QPSK 1_104	166300/831.5	100%	0.417	0.237	-0.19	21.40	22.00	1.148	0.479	22
Left side	20	QPSK 1_104	166300/831.5	100%	0.555	0.299	-0.14	21.40	22.00	1.148	0.637	22
Bottom side	20	QPSK 1_104	166300/831.5	100%	0.009	0.003	-0.07	21.40	22.00	1.148	0.010	22
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	20	QPSK 50_28	167800/839	100%	0.285	0.165	0.18	21.59	22.00	1.099	0.313	22
Back side	20	QPSK 50_28	167800/839	100%	0.435	0.247	0.19	21.59	22.00	1.099	0.478	22
Left side	20	QPSK 50_28	167800/839	100%	0.528	0.283	0.06	21.59	22.00	1.099	0.580	22
Bottom side	20	QPSK 50_28	167800/839	100%	0.012	0.006	-0.05	21.59	22.00	1.099	0.013	22



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 104 of 148

8.2.17 SAR Result of NR Band n41

N41 SAR Test Record												
Ant3 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	100	QPSK 1_1	513900/2569.5	100%	0.419	0.223	-0.18	16.16	17.20	1.271	0.532	22.3
Left tilted	100	QPSK 1_1	513900/2569.5	100%	0.397	0.208	0.08	16.16	17.20	1.271	0.504	22.3
Right cheek	100	QPSK 1_1	513900/2569.5	100%	0.471	0.222	0.06	16.16	17.20	1.271	0.598	22.3
Right tilted	100	QPSK 1_1	513900/2569.5	100%	0.564	0.256	0.07	16.16	17.20	1.271	0.717	22.3
Right tilted	100	QPSK 1_1	509202/2546.01	100%	0.527	0.240	0.03	16.13	17.20	1.279	0.674	22.3
Right tilted	100	QPSK 1_1	518598/2592.99	100%	0.644	0.290	0.13	16.08	17.20	1.294	0.833	22.3
Right tilted	100	QPSK 1_1	523302/2616.51	100%	0.681	0.306	-0.03	16.03	17.20	1.309	0.892	22.3
Right tilted	100	QPSK 1_1	528000/2640	100%	0.703	0.314	0.09	16.09	17.20	1.291	0.908	22.3
Head Test Data (50%RB) State 5												
Left cheek	100	QPSK 135_69	513900/2569.5	100%	0.397	0.207	0.05	16.22	17.20	1.253	0.497	22.3
Left tilted	100	QPSK 135_69	513900/2569.5	100%	0.473	0.243	-0.11	16.22	17.20	1.253	0.593	22.3
Right cheek	100	QPSK 135_69	513900/2569.5	100%	0.509	0.235	0.12	16.22	17.20	1.253	0.638	22.3
Right tilted	100	QPSK 135_69	513900/2569.5	100%	0.634	0.287	-0.06	16.22	17.20	1.253	0.794	22.3
Right cheek	100	QPSK 135_69	509202/2546.01	100%	0.556	0.282	-0.17	16.01	17.20	1.315	0.731	22.3
Right cheek	100	QPSK 135_69	518598/2592.99	100%	0.641	0.316	-0.03	15.94	17.20	1.337	0.857	22.3
Right cheek	100	QPSK 135_69	523302/2616.51	100%	0.603	0.299	0.06	15.96	17.20	1.330	0.802	22.3
Right cheek	100	QPSK 135_69	528000/2640	100%	0.641	0.306	-0.07	15.99	17.20	1.321	0.847	22.3
Right tilted	100	QPSK 135_69	509202/2546.01	100%	0.612	0.277	-0.05	16.01	17.20	1.315	0.805	22.3
Right tilted	100	QPSK 135_69	518598/2592.99	100%	0.740	0.323	0.14	15.94	17.20	1.337	0.989	22.3
Right tilted with Sample2	100	QPSK 135_69	518598/2592.99	100%	0.714	0.310	0.17	15.94	17.20	1.337	0.954	22.3
Right tilted	100	QPSK 135_69	523302/2616.51	100%	0.692	0.311	0.00	15.96	17.20	1.330	0.921	22.3
Right tilted	100	QPSK 135_69	528000/2640	100%	0.692	0.314	0.11	15.99	17.20	1.321	0.914	22.3
Head Test Data (100%RB) State 5												
Right cheek	100	QPSK 270_0	509202/2546.01	100%	0.414	0.210	-0.16	15.05	16.20	1.303	0.540	22.3
Right tilted	100	QPSK 270_0	509202/2546.01	100%	0.456	0.206	0.16	15.05	16.20	1.303	0.594	22.3
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	100	QPSK 1_1	518598/2592.99	100%	0.189	0.101	-0.15	20.69	21.70	1.262	0.238	22.3
Back side	100	QPSK 1_1	518598/2592.99	100%	0.304	0.163	0.19	20.69	21.70	1.262	0.384	22.3
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	100	QPSK 135_69	518598/2592.99	100%	0.185	0.100	-0.05	20.58	21.70	1.294	0.239	22.3
Back side	100	QPSK 135_69	518598/2592.99	100%	0.298	0.159	0.12	20.58	21.70	1.294	0.386	22.3
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	100	QPSK 1_1	513900/2569.5	100%	0.236	0.125	-0.13	19.21	20.20	1.256	0.296	22.3
Back side	100	QPSK 1_1	513900/2569.5	100%	0.384	0.203	-0.06	19.21	20.20	1.256	0.482	22.3
Left side	100	QPSK 1_1	513900/2569.5	100%	0.085	0.044	0.15	19.21	20.20	1.256	0.107	22.3
Top side	100	QPSK 1_1	513900/2569.5	100%	0.522	0.259	-0.11	19.21	20.20	1.256	0.656	22.3
Top side	100	QPSK 1_1	509202/2546.01	100%	0.516	0.257	-0.06	19.09	20.20	1.291	0.666	22.3
Top side	100	QPSK 1_1	518598/2592.99	100%	0.595	0.308	0.15	19.12	20.20	1.282	0.763	22.3



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 105 of 148

Top side with Sample2	100	QPSK 1_1	518598/2592.99	100%	0.578	0.296	0.12	19.12	20.20	1.282	0.741	22.3
Top side	100	QPSK 1_1	523302/2616.51	100%	0.540	0.262	-0.18	19.19	20.20	1.262	0.681	22.3
Top side	100	QPSK 1_137	528000/2640	100%	0.399	0.194	0.01	19.17	20.20	1.268	0.506	22.3
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	100	QPSK 135_69	523302/2616.51	100%	0.231	0.120	-0.18	19.16	20.20	1.271	0.294	22.3
Back side	100	QPSK 135_69	523302/2616.51	100%	0.379	0.195	-0.02	19.16	20.20	1.271	0.482	22.3
Left side	100	QPSK 135_69	523302/2616.51	100%	0.139	0.066	0.02	19.16	20.20	1.271	0.177	22.3
Top side	100	QPSK 135_69	523302/2616.51	100%	0.437	0.210	0.14	19.16	20.20	1.271	0.555	22.3
Ant4 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	100	QPSK 1_1	518598/2592.99	100%	0.271	0.142	0.04	25.49	26.70	1.321	0.358	22.3
Left tilted	100	QPSK 1_1	518598/2592.99	100%	0.094	0.049	-0.13	25.49	26.70	1.321	0.124	22.3
Right cheek	100	QPSK 1_1	518598/2592.99	100%	0.161	0.093	0.16	25.49	26.70	1.321	0.213	22.3
Right tilted	100	QPSK 1_1	518598/2592.99	100%	0.151	0.074	-0.11	25.49	26.70	1.321	0.200	22.3
Head Test Data (50%RB) State 5												
Left cheek	100	QPSK 135_69	509202/2546.01	100%	0.268	0.143	0.01	25.35	26.70	1.365	0.366	22.3
Left tilted	100	QPSK 135_69	509202/2546.01	100%	0.093	0.049	-0.10	25.35	26.70	1.365	0.127	22.3
Right cheek	100	QPSK 135_69	509202/2546.01	100%	0.138	0.080	-0.16	25.35	26.70	1.365	0.188	22.3
Right tilted	100	QPSK 135_69	509202/2546.01	100%	0.133	0.067	0.09	25.35	26.70	1.365	0.181	22.3
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	100	QPSK 1_1	509202/2546.01	100%	0.267	0.139	0.10	23.45	24.70	1.334	0.356	22.3
Back side	100	QPSK 1_1	509202/2546.01	100%	0.292	0.162	-0.19	23.45	24.70	1.334	0.389	22.3
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	100	QPSK 135_69	513900/2569.5	100%	0.293	0.153	-0.14	23.37	24.70	1.358	0.398	22.3
Back side	100	QPSK 135_69	513900/2569.5	100%	0.303	0.161	-0.09	23.37	24.70	1.358	0.412	22.3
Back side with Sample2	100	QPSK 135_69	513900/2569.5	100%	0.296	0.157	-0.01	23.37	24.70	1.358	0.402	22.3
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	100	QPSK 1_1	509202/2546.01	100%	0.386	0.188	-0.15	21.47	22.70	1.327	0.512	22.3
Back side	100	QPSK 1_1	509202/2546.01	100%	0.414	0.205	0.05	21.47	22.70	1.327	0.550	22.3
Left side	100	QPSK 1_1	509202/2546.01	100%	0.165	0.084	-0.06	21.47	22.70	1.327	0.219	22.3
Right side	100	QPSK 1_1	509202/2546.01	100%	0.041	0.011	0.09	21.47	22.70	1.327	0.054	22.3
Bottom side	100	QPSK 1_1	509202/2546.01	100%	0.498	0.252	-0.10	21.47	22.70	1.327	0.661	22.3
Bottom side	100	QPSK 1_1	513900/2569.5	100%	0.509	0.256	0.16	21.35	22.70	1.365	0.695	22.3
Bottom side	100	QPSK 1_1	518598/2592.99	100%	0.515	0.261	0.17	21.39	22.70	1.352	0.696	22.3
Bottom side	100	QPSK 1_1	523302/2616.51	100%	0.494	0.248	-0.08	21.41	22.70	1.346	0.665	22.3
Bottom side	100	QPSK 1_1	528000/2640	100%	0.460	0.230	-0.14	21.22	22.70	1.406	0.647	22.3
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	100	QPSK 135_69	509202/2546.01	100%	0.321	0.188	-0.05	21.40	22.70	1.349	0.433	22.3
Back side	100	QPSK 135_69	509202/2546.01	100%	0.394	0.200	0.05	21.40	22.70	1.349	0.531	22.3
Left side	100	QPSK 135_69	509202/2546.01	100%	0.136	0.071	-0.13	21.40	22.70	1.349	0.183	22.3
Right side	100	QPSK 135_69	509202/2546.01	100%	0.018	0.013	0.18	21.40	22.70	1.349	0.024	22.3
Bottom side	100	QPSK 135_69	509202/2546.01	100%	0.501	0.255	0.04	21.40	22.70	1.349	0.676	22.3
Bottom side	100	QPSK 135_69	513900/2569.5	100%	0.475	0.240	0.19	21.27	22.70	1.390	0.660	22.3



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 106 of 148

Bottom side	100	QPSK 135_69	518598/2592.99	100%	0.456	0.228	-0.14	21.25	22.70	1.396	0.637	22.3
Bottom side	100	QPSK 135_69	523302/2616.51	100%	0.456	0.226	-0.03	21.24	22.70	1.400	0.638	22.3
Bottom side	100	QPSK 135_69	528000/2640	100%	0.413	0.204	0.11	21.18	22.70	1.419	0.586	22.3
Ant5 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	100	QPSK 1_1	509202/2546.01	100%	0.532	0.287	-0.17	19.48	20.20	1.180	0.628	22.5
Left tilted	100	QPSK 1_1	509202/2546.01	100%	0.461	0.241	-0.16	19.48	20.20	1.180	0.544	22.5
Right cheek	100	QPSK 1_1	509202/2546.01	100%	0.226	0.124	0.05	19.48	20.20	1.180	0.267	22.5
Right tilted	100	QPSK 1_1	509202/2546.01	100%	0.217	0.108	-0.14	19.48	20.20	1.180	0.256	22.5
Left cheek	100	QPSK 1_1	513900/2569.5	100%	0.612	0.319	-0.08	19.45	20.20	1.189	0.727	22.5
Left cheek	100	QPSK 1_1	518598/2592.99	100%	0.740	0.367	0.04	19.09	20.20	1.291	0.956	22.5
Left cheek	100	QPSK 1_1	523302/2616.51	100%	0.580	0.325	0.12	19.16	20.20	1.271	0.737	22.5
Left cheek	100	QPSK 1_1	528000/2640	100%	0.528	0.287	0.06	18.97	20.20	1.327	0.701	22.5
Head Test Data (50%RB) State 5												
Left cheek	100	QPSK 135_69	513900/2569.5	100%	0.554	0.311	-0.14	19.22	20.20	1.253	0.694	22.5
Left tilted	100	QPSK 135_69	513900/2569.5	100%	0.474	0.249	0.06	19.22	20.20	1.253	0.594	22.5
Right cheek	100	QPSK 135_69	513900/2569.5	100%	0.288	0.159	0.05	19.22	20.20	1.253	0.361	22.5
Right tilted	100	QPSK 135_69	513900/2569.5	100%	0.308	0.156	-0.04	19.22	20.20	1.253	0.386	22.5
Left cheek	100	QPSK 135_69	509202/2546.01	100%	0.482	0.280	-0.13	19.12	20.20	1.282	0.618	22.5
Left cheek	100	QPSK 135_69	518598/2592.99	100%	0.670	0.358	0.10	18.87	20.20	1.358	0.910	22.5
Left cheek	100	QPSK 135_69	523302/2616.51	100%	0.525	0.317	-0.10	18.82	20.20	1.374	0.721	22.5
Left cheek	100	QPSK 135_69	528000/2640	100%	0.478	0.280	0.05	18.90	20.20	1.349	0.645	22.5
Head Test Data (100%RB) State 5												
Left cheek	100	QPSK 270_0	509202/2546.01	100%	0.423	0.227	-0.03	18.84	19.20	1.086	0.460	22.5
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	100	QPSK 1_1	509202/2546.01	100%	0.095	0.051	0.16	22.83	23.70	1.222	0.116	22.5
Back side	100	QPSK 1_1	509202/2546.01	100%	0.091	0.048	0.15	22.83	23.70	1.222	0.111	22.5
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	100	QPSK 135_69	513900/2569.5	100%	0.187	0.098	0.13	22.64	23.70	1.276	0.239	22.5
Back side	100	QPSK 135_69	513900/2569.5	100%	0.164	0.089	0.17	22.64	23.70	1.276	0.209	22.5
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	100	QPSK 1_1	509202/2546.01	100%	0.194	0.101	0.02	21.90	22.70	1.202	0.233	22.5
Back side	100	QPSK 1_1	509202/2546.01	100%	0.163	0.087	0.14	21.90	22.70	1.202	0.196	22.5
Right side	100	QPSK 1_1	509202/2546.01	100%	0.102	0.049	-0.03	21.90	22.70	1.202	0.123	22.5
Top side	100	QPSK 1_1	509202/2546.01	100%	0.356	0.171	-0.01	21.90	22.70	1.202	0.428	22.5
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	100	QPSK 135_69	513900/2569.5	100%	0.290	0.154	0.13	21.70	22.70	1.259	0.365	22.5
Back side	100	QPSK 135_69	513900/2569.5	100%	0.253	0.143	-0.08	21.70	22.70	1.259	0.319	22.5
Right side	100	QPSK 135_69	513900/2569.5	100%	0.168	0.077	-0.03	21.70	22.70	1.259	0.211	22.5
Top side	100	QPSK 135_69	513900/2569.5	100%	0.440	0.223	0.19	21.70	22.70	1.259	0.554	22.5



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 107 of 148

8.2.18 SAR Result of NR Band n66

N66 SAR Test Record												
Ant3 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	40	QPSK 1_214	349000/1745	100%	0.377	0.220	-0.19	18.34	19.00	1.164	0.439	22.3
Left tilted	40	QPSK 1_214	349000/1745	100%	0.441	0.243	0.04	18.34	19.00	1.164	0.513	22.3
Right cheek	40	QPSK 1_214	349000/1745	100%	0.689	0.369	0.12	18.34	19.00	1.164	0.802	22.3
Right tilted	40	QPSK 1_214	349000/1745	100%	0.629	0.306	0.09	18.34	19.00	1.164	0.732	22.3
Right cheek	40	QPSK 1_214	346000/1730	100%	0.643	0.340	-0.12	18.00	19.00	1.259	0.809	22.3
Right cheek	40	QPSK 1_214	352000/1760	100%	0.727	0.388	0.06	18.23	19.00	1.194	0.868	22.3
Right cheek with Sample2	40	QPSK 1_214	352000/1760	100%	0.709	0.375	0.03	18.23	19.00	1.194	0.847	22.3
Head Test Data (50%RB) State 5												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.347	0.205	-0.09	18.21	19.00	1.199	0.416	22.3
Left tilted	40	QPSK 108_54	349000/1745	100%	0.403	0.224	-0.08	18.21	19.00	1.199	0.483	22.3
Right cheek	40	QPSK 108_54	349000/1745	100%	0.634	0.334	-0.13	18.21	19.00	1.199	0.760	22.3
Right tilted	40	QPSK 108_54	349000/1745	100%	0.587	0.280	0.16	18.21	19.00	1.199	0.704	22.3
Head Test Data (100%RB) State 5												
Right cheek	40	QPSK 216_0	349000/1745	100%	0.483	0.253	-0.05	17.21	18.00	1.199	0.579	22.3
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	40	QPSK 1_214	349000/1745	100%	0.170	0.105	-0.13	21.32	22.00	1.169	0.199	22.3
Back side	40	QPSK 1_214	349000/1745	100%	0.201	0.126	0.08	21.32	22.00	1.169	0.235	22.3
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	40	QPSK 108_54	349000/1745	100%	0.173	0.108	0.17	21.25	22.00	1.189	0.206	22.3
Back side	40	QPSK 108_54	349000/1745	100%	0.207	0.135	0.15	21.25	22.00	1.189	0.246	22.3
Back side with Sample2	40	QPSK 108_54	349000/1745	100%	0.192	0.128	0.11	21.25	22.00	1.189	0.228	22.3
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	40	QPSK 1_108	349000/1745	100%	0.176	0.106	-0.12	19.39	20.00	1.151	0.203	22.3
Back side	40	QPSK 1_108	349000/1745	100%	0.276	0.150	-0.09	19.39	20.00	1.151	0.318	22.3
Left side	40	QPSK 1_108	349000/1745	100%	0.082	0.041	-0.02	19.39	20.00	1.151	0.094	22.3
Top side	40	QPSK 1_108	349000/1745	100%	0.273	0.147	0.11	19.39	20.00	1.151	0.314	22.3
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	40	QPSK 108_54	349000/1745	100%	0.187	0.113	-0.09	19.35	20.00	1.161	0.217	22.3
Back side	40	QPSK 108_54	349000/1745	100%	0.280	0.162	-0.04	19.35	20.00	1.161	0.325	22.3
Left side	40	QPSK 108_54	349000/1745	100%	0.077	0.039	0.00	19.35	20.00	1.161	0.089	22.3
Top side	40	QPSK 108_54	349000/1745	100%	0.283	0.155	0.10	19.35	20.00	1.161	0.329	22.3
Ant4 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	40	QPSK 1_214	349000/1745	100%	0.152	0.095	-0.17	24.35	25.00	1.161	0.177	22.3
Left tilted	40	QPSK 1_214	349000/1745	100%	0.054	0.033	-0.07	24.35	25.00	1.161	0.063	22.3
Right cheek	40	QPSK 1_214	349000/1745	100%	0.093	0.062	-0.15	24.35	25.00	1.161	0.108	22.3



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 108 of 148

Right tilted	40	QPSK 1_214	349000/1745	100%	0.077	0.045	0.04	24.35	25.00	1.161	0.089	22.3
Head Test Data (50%RB) State 5												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.151	0.095	-0.08	24.27	25.00	1.183	0.179	22.3
Left tilted	40	QPSK 108_54	349000/1745	100%	0.049	0.031	0.15	24.27	25.00	1.183	0.058	22.3
Right cheek	40	QPSK 108_54	349000/1745	100%	0.091	0.061	-0.05	24.27	25.00	1.183	0.108	22.3
Right tilted	40	QPSK 108_54	349000/1745	100%	0.083	0.050	0.12	24.27	25.00	1.183	0.098	22.3
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	40	QPSK 1_108	349000/1745	100%	0.131	0.078	-0.05	21.33	22.00	1.167	0.153	22.3
Back side	40	QPSK 1_108	349000/1745	100%	0.151	0.089	0.18	21.33	22.00	1.167	0.176	22.3
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	40	QPSK 108_54	352000/1760	100%	0.139	0.082	-0.07	21.30	22.00	1.175	0.163	22.3
Back side	40	QPSK 108_54	352000/1760	100%	0.169	0.099	0.16	21.30	22.00	1.175	0.199	22.3
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	40	QPSK 1_214	349000/1745	100%	0.184	0.102	0.02	19.32	20.00	1.169	0.215	22.3
Back side	40	QPSK 1_214	349000/1745	100%	0.231	0.126	-0.06	19.32	20.00	1.169	0.270	22.3
Left side	40	QPSK 1_214	349000/1745	100%	0.062	0.035	0.08	19.32	20.00	1.169	0.073	22.3
Right side	40	QPSK 1_214	349000/1745	100%	0.045	0.026	-0.17	19.32	20.00	1.169	0.053	22.3
Bottom side	40	QPSK 1_214	349000/1745	100%	0.306	0.173	0.02	19.32	20.00	1.169	0.358	22.3
Bottom side with Sample2	40	QPSK 1_214	349000/1745	100%	0.289	0.167	0.08	19.32	20.00	1.169	0.338	22.3
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	40	QPSK 108_54	349000/1745	100%	0.171	0.094	-0.07	19.29	20.00	1.178	0.201	22.3
Back side	40	QPSK 108_54	349000/1745	100%	0.195	0.111	0.08	19.29	20.00	1.178	0.230	22.3
Left side	40	QPSK 108_54	349000/1745	100%	0.059	0.033	0.02	19.29	20.00	1.178	0.069	22.3
Right side	40	QPSK 108_54	349000/1745	100%	0.041	0.023	-0.10	19.29	20.00	1.178	0.048	22.3
Bottom side	40	QPSK 108_54	349000/1745	100%	0.274	0.149	-0.14	19.29	20.00	1.178	0.323	22.3
Ant5 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	40	QPSK 1_1	349000/1745	100%	0.559	0.338	0.13	21.70	22.70	1.259	0.704	22.3
Left tilted	40	QPSK 1_1	349000/1745	100%	0.385	0.212	-0.10	21.70	22.70	1.259	0.485	22.3
Right cheek	40	QPSK 1_1	349000/1745	100%	0.170	0.109	0.07	21.70	22.70	1.259	0.214	22.3
Right tilted	40	QPSK 1_1	349000/1745	100%	0.212	0.129	0.09	21.70	22.70	1.259	0.267	22.3
Head Test Data (50%RB) State 5												
Left cheek	40	QPSK 108_54	349000/1745	100%	0.630	0.405	-0.06	21.73	22.70	1.250	0.788	22.3
Left tilted	40	QPSK 108_54	349000/1745	100%	0.473	0.261	0.01	21.73	22.70	1.250	0.591	22.3
Right cheek	40	QPSK 108_54	349000/1745	100%	0.189	0.122	-0.06	21.73	22.70	1.250	0.236	22.3
Right tilted	40	QPSK 108_54	349000/1745	100%	0.246	0.146	0.17	21.73	22.70	1.250	0.308	22.3
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	40	QPSK 1_1	349000/1745	100%	0.048	0.030	-0.12	21.70	22.70	1.259	0.060	22.3
Back side	40	QPSK 1_1	349000/1745	100%	0.075	0.048	-0.09	21.70	22.70	1.259	0.094	22.3
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	40	QPSK 108_54	349000/1745	100%	0.056	0.035	-0.16	21.73	22.70	1.250	0.070	22.3
Back side	40	QPSK 108_54	349000/1745	100%	0.087	0.054	-0.15	21.73	22.70	1.250	0.109	22.3



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 109 of 148

Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	40	QPSK 1_214	349000/1745	100%	0.096	0.050	0.03	19.73	21.20	1.403	0.135	22.3
Back side	40	QPSK 1_214	349000/1745	100%	0.124	0.071	-0.16	19.73	21.20	1.403	0.174	22.3
Right side	40	QPSK 1_214	349000/1745	100%	0.090	0.042	0.09	19.73	21.20	1.403	0.126	22.3
Top side	40	QPSK 1_214	349000/1745	100%	0.148	0.076	-0.02	19.73	21.20	1.403	0.208	22.3
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	40	QPSK 108_54	352000/1760	100%	0.086	0.046	0.04	19.82	21.20	1.374	0.118	22.3
Back side	40	QPSK 108_54	352000/1760	100%	0.116	0.067	0.02	19.82	21.20	1.374	0.159	22.3
Right side	40	QPSK 108_54	352000/1760	100%	0.090	0.041	-0.03	19.82	21.20	1.374	0.124	22.3
Top side	40	QPSK 108_54	352000/1760	100%	0.142	0.076	0.06	19.82	21.20	1.374	0.195	22.3



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8.2.19 SAR Result of NR Band n77(3450-3550)

N77 SAR Test Record												
Ant5 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.889	0.406	-0.14	15.20	16.40	1.318	1.172	22.1
Left tilted	100	QPSK 1_271	633334/3500	100%	0.756	0.332	0.13	15.20	16.40	1.318	0.997	22.1
Right cheek	100	QPSK 1_271	633334/3500	100%	0.311	0.140	-0.11	15.20	16.40	1.318	0.410	22.1
Right tilted	100	QPSK 1_271	633334/3500	100%	0.449	0.190	-0.01	15.20	16.40	1.318	0.592	22.1
Head Test Data (50%RB) State 5												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.697	0.316	0.07	14.97	16.40	1.390	0.969	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.727	0.321	0.18	14.97	16.40	1.390	1.010	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.314	0.140	-0.01	14.97	16.40	1.390	0.436	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.306	0.131	0.13	14.97	16.40	1.390	0.425	22.1
Head Test Data(100%RB) State 5												
Left cheek	100	QPSK 270_0	633334/3500	100%	0.592	0.265	0.10	14.17	15.40	1.327	0.786	22.1
Left tilted	100	QPSK 270_0	633334/3500	100%	0.540	0.240	0.11	14.17	15.40	1.327	0.717	22.1
Head Test Data (1RB) State 10												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.889	0.406	-0.14	15.20	14.40	0.832	0.739	22.1
Left tilted	100	QPSK 1_271	633334/3500	100%	0.756	0.332	0.13	15.20	14.40	0.832	0.629	22.1
Right cheek	100	QPSK 1_271	633334/3500	100%	0.311	0.140	-0.11	15.20	14.40	0.832	0.259	22.1
Right tilted	100	QPSK 1_271	633334/3500	100%	0.449	0.190	-0.01	15.20	14.40	0.832	0.373	22.1
Head Test Data (50%RB) State 10												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.697	0.316	0.07	14.97	14.40	0.877	0.611	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.727	0.321	0.18	14.97	14.40	0.877	0.638	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.314	0.140	-0.01	14.97	14.40	0.877	0.275	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.306	0.131	0.13	14.97	14.40	0.877	0.268	22.1
Head Test Data(100%RB) State 10												
Left cheek	100	QPSK 270_0	633334/3500	100%	0.592	0.265	0.10	14.17	13.40	0.838	0.496	22.1
Left tilted	100	QPSK 270_0	633334/3500	100%	0.540	0.240	0.11	14.17	13.40	0.838	0.452	22.1
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	100	QPSK 1_271	633334/3500	100%	0.217	0.104	0.03	19.21	20.40	1.315	0.285	21.9
Back side	100	QPSK 1_271	633334/3500	100%	0.174	0.085	0.12	19.21	20.40	1.315	0.229	21.9
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	100	QPSK 135_69	633334/3500	100%	0.182	0.088	-0.11	19.00	20.40	1.380	0.251	21.9
Back side	100	QPSK 135_69	633334/3500	100%	0.155	0.074	-0.18	19.00	20.40	1.380	0.214	21.9
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	100	QPSK 1_271	633334/3500	100%	0.357	0.172	0.14	19.21	20.40	1.315	0.470	21.9
Back side	100	QPSK 1_271	633334/3500	100%	0.287	0.136	-0.02	19.21	20.40	1.315	0.377	21.9
Right side	100	QPSK 1_271	633334/3500	100%	0.167	0.076	-0.12	19.21	20.40	1.315	0.220	21.9
Top side	100	QPSK 1_271	633334/3500	100%	0.583	0.249	0.02	19.21	20.40	1.315	0.767	21.9



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 111 of 148

Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	100	QPSK 135_69	633334/3500	100%	0.327	0.157	-0.04	19.00	20.40	1.380	0.451	21.9
Back side	100	QPSK 135_69	633334/3500	100%	0.250	0.121	0.14	19.00	20.40	1.380	0.345	21.9
Right side	100	QPSK 135_69	633334/3500	100%	0.138	0.063	0.17	19.00	20.40	1.380	0.190	21.9
Top side	100	QPSK 135_69	633334/3500	100%	0.553	0.230	0.02	19.00	20.40	1.380	0.763	21.9
Ant6 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	100	QPSK 1_1	633334/3500	100%	0.061	0.024	-0.07	12.29	13.20	1.233	0.075	22
Left tilted	100	QPSK 1_1	633334/3500	100%	0.043	0.012	-0.01	12.29	13.20	1.233	0.053	22
Right cheek	100	QPSK 1_1	633334/3500	100%	0.261	0.101	0.08	12.29	13.20	1.233	0.322	22
Right tilted	100	QPSK 1_1	633334/3500	100%	0.073	0.034	-0.19	12.29	13.20	1.233	0.090	22
Head Test Data (50%RB) State 5												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.051	0.020	0.06	12.22	13.20	1.253	0.064	22
Left tilted	100	QPSK 135_69	633334/3500	100%	0.022	0.010	0.03	12.22	13.20	1.253	0.028	22
Right cheek	100	QPSK 135_69	633334/3500	100%	0.211	0.081	-0.04	12.22	13.20	1.253	0.264	22
Right tilted	100	QPSK 135_69	633334/3500	100%	0.065	0.030	0.08	12.22	13.20	1.253	0.081	22
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	100	QPSK 1_1	633334/3500	100%	0.038	0.017	0.06	14.27	15.20	1.239	0.047	21.9
Back side	100	QPSK 1_1	633334/3500	100%	0.068	0.031	-0.11	14.27	15.20	1.239	0.084	21.9
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	100	QPSK 135_69	633334/3500	100%	0.043	0.014	0.17	14.16	15.20	1.271	0.055	21.9
Back side	100	QPSK 135_69	633334/3500	100%	0.066	0.031	0.11	14.16	15.20	1.271	0.084	21.9
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	100	QPSK 1_1	633334/3500	100%	0.053	0.023	0.05	12.29	13.20	1.233	0.065	21.9
Back side	100	QPSK 1_1	633334/3500	100%	0.098	0.040	0.03	12.29	13.20	1.233	0.121	21.9
Left side	100	QPSK 1_1	633334/3500	100%	0.109	0.045	0.15	12.29	13.20	1.233	0.134	21.9
Top side	100	QPSK 1_1	633334/3500	100%	0.037	0.009	0.16	12.29	13.20	1.233	0.046	21.9
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	100	QPSK 135_69	633334/3500	100%	0.043	0.020	0.05	12.22	13.20	1.253	0.054	21.9
Back side	100	QPSK 135_69	633334/3500	100%	0.090	0.037	0.00	12.22	13.20	1.253	0.113	21.9
Left side	100	QPSK 135_69	633334/3500	100%	0.093	0.040	-0.18	12.22	13.20	1.253	0.117	21.9
Top side	100	QPSK 135_69	633334/3500	100%	0.037	0.009	-0.05	12.22	13.20	1.253	0.046	21.9
Ant 7 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) State 5												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.640	0.255	0.17	16.39	17.20	1.205	0.771	22.1
Left tilted	100	QPSK 1_271	633334/3500	100%	0.628	0.253	0.05	16.39	17.20	1.205	0.757	22.1
Right cheek	100	QPSK 1_271	633334/3500	100%	0.339	0.146	0.09	16.39	17.20	1.205	0.409	22.1
Right tilted	100	QPSK 1_271	633334/3500	100%	0.400	0.167	-0.05	16.39	17.20	1.205	0.482	22.1



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 112 of 148

Head Test Data(50%RB) State 5												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.950	0.346	-0.15	16.36	17.20	1.213	1.153	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.580	0.242	0.18	16.36	17.20	1.213	0.704	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.409	0.176	0.03	16.36	17.20	1.213	0.496	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.443	0.185	-0.01	16.36	17.20	1.213	0.538	22.1
Head Test Data(100%RB) State 5												
Left cheek	100	QPSK 270_0	633334/3500	100%	0.548	0.222	-0.04	15.19	16.20	1.262	0.691	22.1
Head Test Data(1RB) State 10												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.640	0.255	0.17	16.39	16.20	0.957	0.613	22.1
Left tilted	100	QPSK 1_271	633334/3500	100%	0.628	0.253	0.05	16.39	16.20	0.957	0.601	22.1
Right cheek	100	QPSK 1_271	633334/3500	100%	0.339	0.146	0.09	16.39	16.20	0.957	0.324	22.1
Right tilted	100	QPSK 1_271	633334/3500	100%	0.400	0.167	-0.05	16.39	16.20	0.957	0.383	22.1
Head Test Data(50%RB) State 10												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.950	0.346	-0.15	16.36	16.20	0.964	0.916	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.580	0.242	0.18	16.36	16.20	0.964	0.559	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.409	0.176	0.03	16.36	16.20	0.964	0.394	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.443	0.185	-0.01	16.36	16.20	0.964	0.427	22.1
Head Test Data(100%RB) State 10												
Left cheek	100	QPSK 270_0	633334/3500	100%	0.548	0.222	-0.04	15.19	15.20	1.002	0.549	22.1
Body worn Test data(Separate 15mm 1RB) State 3												
Front side	100	QPSK 1_271	633334/3500	100%	0.200	0.094	0.10	20.38	21.20	1.208	0.242	22.1
Back side	100	QPSK 1_271	633334/3500	100%	0.298	0.139	0.06	20.38	21.20	1.208	0.360	22.1
Back side with Sample2	100	QPSK 1_271	633334/3500	100%	0.291	0.136	0.16	20.38	21.20	1.208	0.351	22.1
Body worn Test data(Separate 15mm 50%RB) State 3												
Front side	100	QPSK 135_69	633334/3500	100%	0.185	0.085	-0.05	20.37	21.20	1.211	0.224	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.293	0.138	0.09	20.37	21.20	1.211	0.355	22.1
Hotspot Test data(Separate 10mm 1RB) State 8												
Front side	100	QPSK 1_271	633334/3500	100%	0.211	0.094	0.05	18.40	19.20	1.202	0.254	22.1
Back side	100	QPSK 1_271	633334/3500	100%	0.447	0.195	-0.03	18.40	19.20	1.202	0.537	22.1
Right side	100	QPSK 1_271	633334/3500	100%	0.074	0.019	0.16	18.40	19.20	1.202	0.089	22.1
Top side	100	QPSK 1_271	633334/3500	100%	0.395	0.171	-0.12	18.40	19.20	1.202	0.475	22.1
Hotspot Test data(Separate 10mm 50%RB) State 8												
Front side	100	QPSK 135_69	633334/3500	100%	0.225	0.098	-0.11	18.28	19.20	1.236	0.278	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.442	0.195	0.19	18.28	19.20	1.236	0.546	22.1
Right side	100	QPSK 135_69	633334/3500	100%	0.081	0.025	0.16	18.28	19.20	1.236	0.100	22.1
Top side	100	QPSK 135_69	633334/3500	100%	0.445	0.192	-0.04	18.28	19.20	1.236	0.550	22.1



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 113 of 148

Ant 10 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) State 5												
Left cheek	100	QPSK 1_1	633334/3500	100%	0.165	0.078	0.05	17.19	18.20	1.262	0.208	22
Left tilted	100	QPSK 1_1	633334/3500	100%	0.133	0.058	0.10	17.19	18.20	1.262	0.168	22
Right cheek	100	QPSK 1_1	633334/3500	100%	0.641	0.294	-0.11	17.19	18.20	1.262	0.809	22
Right tilted	100	QPSK 1_1	633334/3500	100%	0.451	0.169	-0.18	17.19	18.20	1.262	0.569	22
Head Test Data(50%RB) State 5												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.179	0.087	0.17	17.00	18.20	1.318	0.236	22
Left tilted	100	QPSK 135_69	633334/3500	100%	0.169	0.073	0.16	17.00	18.20	1.318	0.223	22
Right cheek	100	QPSK 135_69	633334/3500	100%	0.749	0.357	0.04	17.00	18.20	1.318	0.987	22
Right tilted	100	QPSK 135_69	633334/3500	100%	0.523	0.197	-0.15	17.00	18.20	1.318	0.689	22
Head Test Data(100%RB) State 5												
Right cheek	100	QPSK 270_0	633334/3500	100%	0.581	0.268	0.02	16.14	17.20	1.276	0.742	22.1
Body worn Test data(Separate 15mm 1RB) State 3												
Front side	100	QPSK 1_1	633334/3500	100%	0.078	0.039	0.14	18.63	19.70	1.279	0.100	22.1
Back side	100	QPSK 1_1	633334/3500	100%	0.146	0.072	-0.10	18.63	19.70	1.279	0.187	22.1
Body worn Test data(Separate 15mm 50%RB) State 3												
Front side	100	QPSK 135_69	633334/3500	100%	0.095	0.048	0.09	18.56	19.70	1.300	0.124	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.158	0.078	0.10	18.56	19.70	1.300	0.205	22.1
Hotspot Test data(Separate 10mm 1RB) State 8												
Front side	100	QPSK 1_1	633334/3500	100%	0.092	0.043	0.15	16.66	17.70	1.271	0.117	22.1
Back side	100	QPSK 1_1	633334/3500	100%	0.195	0.089	0.10	16.66	17.70	1.271	0.248	22.1
Left side	100	QPSK 1_1	633334/3500	100%	0.235	0.101	-0.06	16.66	17.70	1.271	0.299	22.1
Top side	100	QPSK 1_1	633334/3500	100%	0.123	0.050	0.05	16.66	17.70	1.271	0.156	22.1
Hotspot Test data(Separate 10mm 50%RB) State 8												
Front side	100	QPSK 135_69	633334/3500	100%	0.112	0.054	-0.12	16.50	17.70	1.318	0.148	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.200	0.092	-0.17	16.50	17.70	1.318	0.264	22.1
Left side	100	QPSK 135_69	633334/3500	100%	0.258	0.118	0.19	16.50	17.70	1.318	0.340	22.1
Top side	100	QPSK 135_69	633334/3500	100%	0.110	0.046	0.01	16.50	17.70	1.318	0.145	22.1



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 114 of 148

8.2.20 SAR Result of NR Band n77(3700-3980)

N77 SAR Test Record												
Ant5 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	100	QPSK 1_137	657200/3858	100%	0.874	0.379	-0.18	15.89	16.40	1.125	0.983	22.1
Left tilted	100	QPSK 1_137	657200/3858	100%	1.010	0.388	0.14	15.89	16.40	1.125	1.136	22.1
Right cheek	100	QPSK 1_137	657200/3858	100%	0.387	0.162	-0.05	15.89	16.40	1.125	0.435	22.1
Right tilted	100	QPSK 1_137	657200/3858	100%	0.430	0.171	-0.16	15.89	16.40	1.125	0.484	22.1
Left cheek	100	QPSK 1_137	650000/3750	100%	0.839	0.413	-0.12	15.62	16.40	1.197	1.004	22.1
Left cheek	100	QPSK 1_137	652400/3786	100%	0.900	0.405	0.14	15.81	16.40	1.146	1.031	22.1
Left cheek	100	QPSK 1_271	654800/3822	100%	0.767	0.377	-0.11	15.69	16.40	1.178	0.903	22.1
Left cheek	100	QPSK 1_271	659600/3894	100%	0.651	0.324	-0.15	15.85	16.40	1.135	0.739	22.1
Left cheek	100	QPSK 1_271	662000/3930	100%	0.602	0.301	-0.07	15.78	16.40	1.153	0.694	22.1
Left tilted	100	QPSK 1_137	650000/3750	100%	0.970	0.423	0.13	15.62	16.40	1.197	1.161	22.1
Left tilted	100	QPSK 1_137	652400/3786	100%	1.040	0.415	0.02	15.81	16.40	1.146	1.191	22.1
Left tilted-Repeated	100	QPSK 1_137	652400/3786	100%	1.010	0.400	0.06	15.81	16.40	1.146	1.157	22.1
Left tilted with Sample2	100	QPSK 1_137	652400/3786	100%	0.996	0.396	0.12	15.81	16.40	1.146	1.141	22.1
Left tilted	100	QPSK 1_271	654800/3822	100%	0.886	0.386	-0.19	15.69	16.40	1.178	1.043	22.1
Left tilted	100	QPSK 1_271	659600/3894	100%	0.752	0.332	-0.02	15.85	16.40	1.135	0.854	22.1
Left tilted	100	QPSK 1_271	662000/3930	100%	0.696	0.308	-0.10	15.78	16.40	1.153	0.803	22.1
Right cheek	100	QPSK 1_137	650000/3750	100%	0.372	0.177	0.03	15.62	16.40	1.197	0.445	22.1
Right cheek	100	QPSK 1_137	652400/3786	100%	0.398	0.173	0.15	15.81	16.40	1.146	0.456	22.1
Right cheek	100	QPSK 1_271	654800/3822	100%	0.339	0.161	0.02	15.69	16.40	1.178	0.399	22.1
Right cheek	100	QPSK 1_271	659600/3894	100%	0.288	0.139	0.00	15.85	16.40	1.135	0.327	22.1
Right cheek	100	QPSK 1_271	662000/3930	100%	0.267	0.129	-0.16	15.78	16.40	1.153	0.308	22.1
Right tilted	100	QPSK 1_137	650000/3750	100%	0.413	0.186	0.09	15.62	16.40	1.197	0.494	22.1
Right tilted	100	QPSK 1_137	652400/3786	100%	0.443	0.183	0.02	15.81	16.40	1.146	0.507	22.1
Right tilted	100	QPSK 1_271	654800/3822	100%	0.377	0.170	-0.19	15.69	16.40	1.178	0.444	22.1
Right tilted	100	QPSK 1_271	659600/3894	100%	0.320	0.146	-0.04	15.85	16.40	1.135	0.363	22.1
Right tilted	100	QPSK 1_271	662000/3930	100%	0.296	0.136	-0.12	15.78	16.40	1.153	0.341	22.1
Head Test Data (50%RB) State 5												
Left cheek	100	QPSK 135_69	657200/3858	100%	0.878	0.384	0.06	15.80	16.40	1.148	1.008	22.1
Left tilted	100	QPSK 135_69	657200/3858	100%	0.887	0.385	-0.19	15.80	16.40	1.148	1.018	22.1
Right cheek	100	QPSK 135_69	657200/3858	100%	0.410	0.169	0.11	15.80	16.40	1.148	0.471	22.1
Right tilted	100	QPSK 135_69	657200/3858	100%	0.490	0.192	0.00	15.80	16.40	1.148	0.563	22.1
Left cheek	100	QPSK 135_69	650000/3750	100%	1.000	0.395	0.18	15.80	16.40	1.148	1.148	22.1
Left cheek	100	QPSK 135_69	652400/3786	100%	0.937	0.410	0.13	15.74	16.40	1.164	1.091	22.1
Left cheek	100	QPSK 135_69	654800/3822	100%	0.931	0.409	0.11	15.67	16.40	1.183	1.101	22.1
Left cheek	100	QPSK 135_69	659600/3894	100%	0.823	0.357	0.15	15.77	16.40	1.156	0.951	22.1
Left cheek	100	QPSK 135_69	662000/3930	100%	0.773	0.336	0.09	15.66	16.40	1.186	0.917	22.1
Left tilted	100	QPSK 135_69	650000/3750	100%	1.010	0.396	0.10	15.80	16.40	1.148	1.160	22.1



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 115 of 148

Left tilted	100	QPSK 135_69	652400/3786	100%	0.947	0.411	0.16	15.74	16.40	1.164	1.102	22.1
Left tilted	100	QPSK 135_69	654800/3822	100%	0.941	0.410	-0.12	15.67	16.40	1.183	1.113	22.1
Left tilted	100	QPSK 135_69	659600/3894	100%	0.831	0.358	-0.11	15.77	16.40	1.156	0.961	22.1
Left tilted	100	QPSK 135_69	662000/3930	100%	0.781	0.337	-0.07	15.66	16.40	1.186	0.926	22.1
Right cheek	100	QPSK 135_69	650000/3750	100%	0.467	0.174	-0.12	15.80	16.40	1.148	0.536	22.1
Right cheek	100	QPSK 135_69	652400/3786	100%	0.438	0.180	0.16	15.74	16.40	1.164	0.510	22.1
Right cheek	100	QPSK 135_69	654800/3822	100%	0.435	0.180	-0.03	15.67	16.40	1.183	0.515	22.1
Right cheek	100	QPSK 135_69	659600/3894	100%	0.384	0.157	-0.05	15.77	16.40	1.156	0.444	22.1
Right cheek	100	QPSK 135_69	662000/3930	100%	0.361	0.148	0.05	15.66	16.40	1.186	0.428	22.1
Right tilted	100	QPSK 135_69	650000/3750	100%	0.558	0.197	-0.16	15.80	16.40	1.148	0.641	22.1
Right tilted	100	QPSK 135_69	652400/3786	100%	0.523	0.205	-0.14	15.74	16.40	1.164	0.609	22.1
Right tilted	100	QPSK 135_69	654800/3822	100%	0.520	0.204	0.09	15.67	16.40	1.183	0.615	22.1
Right tilted	100	QPSK 135_69	659600/3894	100%	0.459	0.179	-0.10	15.77	16.40	1.156	0.531	22.1
Right tilted	100	QPSK 135_69	662000/3930	100%	0.431	0.168	-0.12	15.66	16.40	1.186	0.511	22.1
Head Test Data(100%RB) State 5												
Left cheek	100	QPSK 270_0	650000/3750	100%	0.721	0.313	-0.09	14.78	15.40	1.153	0.832	22.1
Left tilted	100	QPSK 270_0	650000/3750	100%	0.778	0.336	0.14	14.78	15.40	1.153	0.897	22.1
Head Test Data (1RB) State 10												
Left cheek	100	QPSK 1_137	657200/3858	100%	0.874	0.379	-0.18	15.89	14.40	0.710	0.620	22.1
Left tilted	100	QPSK 1_137	657200/3858	100%	1.010	0.388	0.14	15.89	14.40	0.710	0.717	22.1
Right cheek	100	QPSK 1_137	657200/3858	100%	0.387	0.162	-0.05	15.89	14.40	0.710	0.275	22.1
Right tilted	100	QPSK 1_137	657200/3858	100%	0.430	0.171	-0.16	15.89	14.40	0.710	0.305	22.1
Left cheek	100	QPSK 1_137	650000/3750	100%	0.839	0.413	-0.12	15.62	14.40	0.755	0.634	22.1
Left cheek	100	QPSK 1_137	652400/3786	100%	0.900	0.405	0.14	15.81	14.40	0.723	0.650	22.1
Left cheek	100	QPSK 1_271	654800/3822	100%	0.767	0.377	-0.11	15.69	14.40	0.743	0.570	22.1
Left cheek	100	QPSK 1_271	659600/3894	100%	0.651	0.324	-0.15	15.85	14.40	0.716	0.466	22.1
Left cheek	100	QPSK 1_271	662000/3930	100%	0.602	0.301	-0.07	15.78	14.40	0.728	0.438	22.1
Left tilted	100	QPSK 1_137	650000/3750	100%	0.970	0.423	0.13	15.62	14.40	0.755	0.732	22.1
Left tilted	100	QPSK 1_137	652400/3786	100%	1.040	0.415	0.02	15.81	14.40	0.723	0.752	22.1
Left tilted-Repeated	100	QPSK 1_137	652400/3786	100%	1.010	0.400	0.06	15.81	14.40	0.723	0.730	22.1
Left tilted with Sample2	100	QPSK 1_137	652400/3786	100%	0.996	0.396	0.12	15.81	14.40	0.723	0.720	22.1
Left tilted	100	QPSK 1_271	654800/3822	100%	0.886	0.386	-0.19	15.69	14.40	0.743	0.658	22.1
Left tilted	100	QPSK 1_271	659600/3894	100%	0.752	0.332	-0.02	15.85	14.40	0.716	0.539	22.1
Left tilted	100	QPSK 1_271	662000/3930	100%	0.696	0.308	-0.10	15.78	14.40	0.728	0.507	22.1
Right cheek	100	QPSK 1_137	650000/3750	100%	0.372	0.177	0.03	15.62	14.40	0.755	0.281	22.1
Right cheek	100	QPSK 1_137	652400/3786	100%	0.398	0.173	0.15	15.81	14.40	0.723	0.288	22.1
Right cheek	100	QPSK 1_271	654800/3822	100%	0.339	0.161	0.02	15.69	14.40	0.743	0.252	22.1
Right cheek	100	QPSK 1_271	659600/3894	100%	0.288	0.139	0.00	15.85	14.40	0.716	0.206	22.1
Right cheek	100	QPSK 1_271	662000/3930	100%	0.267	0.129	-0.16	15.78	14.40	0.728	0.194	22.1
Right tilted	100	QPSK 1_137	650000/3750	100%	0.413	0.186	0.09	15.62	14.40	0.755	0.312	22.1
Right tilted	100	QPSK 1_137	652400/3786	100%	0.443	0.183	0.02	15.81	14.40	0.723	0.320	22.1
Right tilted	100	QPSK 1_271	654800/3822	100%	0.377	0.170	-0.19	15.69	14.40	0.743	0.280	22.1
Right tilted	100	QPSK 1_271	659600/3894	100%	0.320	0.146	-0.04	15.85	14.40	0.716	0.229	22.1
Right tilted	100	QPSK 1_271	662000/3930	100%	0.296	0.136	-0.12	15.78	14.40	0.728	0.215	22.1



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 116 of 148

Head Test Data (50%RB) State 10												
Left cheek	100	QPSK 135_69	657200/3858	100%	0.878	0.384	0.06	15.80	14.40	0.724	0.636	22.1
Left tilted	100	QPSK 135_69	657200/3858	100%	0.887	0.385	-0.19	15.80	14.40	0.724	0.643	22.1
Right cheek	100	QPSK 135_69	657200/3858	100%	0.410	0.169	0.11	15.80	14.40	0.724	0.297	22.1
Right tilted	100	QPSK 135_69	657200/3858	100%	0.490	0.192	0.00	15.80	14.40	0.724	0.355	22.1
Left cheek	100	QPSK 135_69	650000/3750	100%	1.000	0.395	0.18	15.80	14.40	0.724	0.724	22.1
Left cheek	100	QPSK 135_69	652400/3786	100%	0.937	0.410	0.13	15.74	14.40	0.735	0.688	22.1
Left cheek	100	QPSK 135_69	654800/3822	100%	0.931	0.409	0.11	15.67	14.40	0.746	0.695	22.1
Left cheek	100	QPSK 135_69	659600/3894	100%	0.823	0.357	0.15	15.77	14.40	0.729	0.600	22.1
Left cheek	100	QPSK 135_69	662000/3930	100%	0.773	0.336	0.09	15.66	14.40	0.748	0.578	22.1
Left tilted	100	QPSK 135_69	650000/3750	100%	1.010	0.396	0.10	15.80	14.40	0.724	0.732	22.1
Left tilted	100	QPSK 135_69	652400/3786	100%	0.947	0.411	0.16	15.74	14.40	0.735	0.696	22.1
Left tilted	100	QPSK 135_69	654800/3822	100%	0.941	0.410	-0.12	15.67	14.40	0.746	0.702	22.1
Left tilted	100	QPSK 135_69	659600/3894	100%	0.831	0.358	-0.11	15.77	14.40	0.729	0.606	22.1
Left tilted	100	QPSK 135_69	662000/3930	100%	0.781	0.337	-0.07	15.66	14.40	0.748	0.584	22.1
Right cheek	100	QPSK 135_69	650000/3750	100%	0.467	0.174	-0.12	15.80	14.40	0.724	0.338	22.1
Right cheek	100	QPSK 135_69	652400/3786	100%	0.438	0.180	0.16	15.74	14.40	0.735	0.322	22.1
Right cheek	100	QPSK 135_69	654800/3822	100%	0.435	0.180	-0.03	15.67	14.40	0.746	0.325	22.1
Right cheek	100	QPSK 135_69	659600/3894	100%	0.384	0.157	-0.05	15.77	14.40	0.729	0.280	22.1
Right cheek	100	QPSK 135_69	662000/3930	100%	0.361	0.148	0.05	15.66	14.40	0.748	0.270	22.1
Right tilted	100	QPSK 135_69	650000/3750	100%	0.558	0.197	-0.16	15.80	14.40	0.724	0.404	22.1
Right tilted	100	QPSK 135_69	652400/3786	100%	0.523	0.205	-0.14	15.74	14.40	0.735	0.384	22.1
Right tilted	100	QPSK 135_69	654800/3822	100%	0.520	0.204	0.09	15.67	14.40	0.746	0.388	22.1
Right tilted	100	QPSK 135_69	659600/3894	100%	0.459	0.179	-0.10	15.77	14.40	0.729	0.335	22.1
Right tilted	100	QPSK 135_69	662000/3930	100%	0.431	0.168	-0.12	15.66	14.40	0.748	0.322	22.1
Head Test Data(100%RB) State 10												
Left cheek	100	QPSK 270_0	650000/3750	100%	0.721	0.313	-0.09	14.78	13.40	0.728	0.525	22.1
Left tilted	100	QPSK 270_0	650000/3750	100%	0.778	0.336	0.14	14.78	13.40	0.728	0.566	22.1
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	100	QPSK 1_271	657200/3858	100%	0.231	0.108	-0.16	19.87	20.40	1.130	0.261	22.1
Back side	100	QPSK 1_271	657200/3858	100%	0.220	0.103	0.07	19.87	20.40	1.130	0.249	22.1
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	100	QPSK 135_69	657200/3858	100%	0.246	0.115	0.00	19.77	20.40	1.156	0.284	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.223	0.106	0.12	19.77	20.40	1.156	0.258	22.1
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	100	QPSK 1_271	657200/3858	100%	0.403	0.184	0.02	19.87	20.40	1.130	0.455	22.1
Back side	100	QPSK 1_271	657200/3858	100%	0.330	0.146	-0.19	19.87	20.40	1.130	0.373	22.1
Right side	100	QPSK 1_271	657200/3858	100%	0.223	0.093	0.05	19.87	20.40	1.130	0.252	22.1
Top side	100	QPSK 1_271	657200/3858	100%	0.810	0.328	0.01	19.87	20.40	1.130	0.915	22.1
Front side	100	QPSK 1_271	650000/3750	100%	0.441	0.205	0.09	19.68	20.40	1.180	0.521	22.1
Front side	100	QPSK 1_137	652400/3786	100%	0.458	0.215	-0.09	19.61	20.40	1.199	0.549	22.1
Front side	100	QPSK 1_271	654800/3822	100%	0.423	0.195	-0.10	19.66	20.40	1.186	0.502	22.1
Front side	100	QPSK 1_137	659600/3894	100%	0.406	0.186	0.11	19.85	20.40	1.135	0.461	22.1
Front side	100	QPSK 1_271	662000/3930	100%	0.335	0.153	0.16	19.78	20.40	1.153	0.386	22.1
Top side	100	QPSK 1_271	650000/3750	100%	0.887	0.366	-0.15	19.68	20.40	1.180	1.047	22.1



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 117 of 148

Top side	100	QPSK 1_137	652400/3786	100%	0.921	0.383	0.00	19.61	20.40	1.199	1.105	22.1
Top side-Repeated	100	QPSK 1_137	652400/3786	100%	0.892	0.371	0.06	19.61	20.40	1.199	1.070	22.1
Top side with Sample2	100	QPSK 1_137	652400/3786	100%	0.878	0.365	0.12	19.61	20.40	1.199	1.053	22.1
Top side	100	QPSK 1_271	654800/3822	100%	0.850	0.347	0.07	19.66	20.40	1.186	1.008	22.1
Top side	100	QPSK 1_137	659600/3894	100%	0.817	0.332	0.03	19.85	20.40	1.135	0.927	22.1
Top side	100	QPSK 1_271	662000/3930	100%	0.674	0.273	0.05	19.78	20.40	1.153	0.777	22.1
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	100	QPSK 135_69	657200/3858	100%	0.430	0.198	0.08	19.77	20.40	1.156	0.497	22.1
Back side	100	QPSK 135_69	657200/3858	100%	0.342	0.155	0.10	19.77	20.40	1.156	0.395	22.1
Right side	100	QPSK 135_69	657200/3858	100%	0.270	0.113	0.04	19.77	20.40	1.156	0.312	22.1
Top side	100	QPSK 135_69	657200/3858	100%	0.841	0.338	-0.11	19.77	20.40	1.156	0.972	22.1
Front side	100	QPSK 135_69	650000/3750	100%	0.462	0.213	0.09	19.56	20.40	1.213	0.561	22.1
Front side	100	QPSK 135_69	652400/3786	100%	0.463	0.214	0.09	19.73	20.40	1.167	0.540	22.1
Front side	100	QPSK 135_69	654800/3822	100%	0.465	0.216	0.09	19.69	20.40	1.178	0.548	22.1
Front side	100	QPSK 135_69	659600/3894	100%	0.424	0.195	-0.13	19.74	20.40	1.164	0.494	22.1
Front side	100	QPSK 135_69	662000/3930	100%	0.392	0.181	-0.09	19.69	20.40	1.178	0.462	22.1
Top side	100	QPSK 135_69	650000/3750	100%	0.903	0.363	0.05	19.56	20.40	1.213	1.096	22.1
Top side	100	QPSK 135_69	652400/3786	100%	0.906	0.366	0.01	19.73	20.40	1.167	1.057	22.1
Top side	100	QPSK 135_69	654800/3822	100%	0.909	0.368	-0.09	19.69	20.40	1.178	1.070	22.1
Top side	100	QPSK 135_69	659600/3894	100%	0.829	0.333	0.19	19.74	20.40	1.164	0.965	22.1
Top side	100	QPSK 135_69	662000/3930	100%	0.766	0.309	-0.16	19.69	20.40	1.178	0.902	22.1
Hotspot Test data(Separate 10mm100%RB) State 8												
Top side	100	QPSK 270_0	650000/3750	100%	0.685	0.289	-0.18	18.77	19.40	1.156	0.792	22.1
Ant6 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) State 5												
Left cheek	100	QPSK 1_1	650000/3750	100%	0.040	0.013	-0.14	12.02	13.20	1.312	0.052	22.1
Left tilted	100	QPSK 1_1	650000/3750	100%	0.035	0.011	0.18	12.02	13.20	1.312	0.046	22.1
Right cheek	100	QPSK 1_1	650000/3750	100%	0.099	0.037	-0.12	12.02	13.20	1.312	0.130	22.1
Right tilted	100	QPSK 1_1	650000/3750	100%	0.046	0.020	0.04	12.02	13.20	1.312	0.060	22.1
Head Test Data (50%RB) State 5												
Left cheek	100	QPSK 135_69	650000/3750	100%	0.052	0.014	0.06	11.84	13.20	1.368	0.071	22.1
Left tilted	100	QPSK 135_69	650000/3750	100%	0.012	0.009	0.16	11.84	13.20	1.368	0.016	22.1
Right cheek	100	QPSK 135_69	650000/3750	100%	0.092	0.034	0.15	11.84	13.20	1.368	0.126	22.1
Right tilted	100	QPSK 135_69	650000/3750	100%	0.041	0.017	0.16	11.84	13.20	1.368	0.056	22.1
Body worn Test data (Separate 15mm 1RB) State 3												
Front side	100	QPSK 1_1	650000/3750	100%	0.036	0.009	0.11	14.00	15.20	1.318	0.047	22.1
Back side	100	QPSK 1_1	650000/3750	100%	0.045	0.010	0.14	14.00	15.20	1.318	0.059	22.1
Body worn Test data (Separate 15mm 50%RB) State 3												
Front side	100	QPSK 135_69	650000/3750	100%	0.052	0.017	0.14	13.90	15.20	1.349	0.070	22.1
Back side	100	QPSK 135_69	650000/3750	100%	0.048	0.012	-0.14	13.90	15.20	1.349	0.065	22.1
Hotspot Test data (Separate 10mm 1RB) State 8												
Front side	100	QPSK 1_1	650000/3750	100%	0.040	0.012	-0.08	12.02	13.20	1.312	0.052	22.1



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 118 of 148

Back side	100	QPSK 1_1	650000/3750	100%	0.047	0.019	0.18	12.02	13.20	1.312	0.062	22.1
Left side	100	QPSK 1_1	650000/3750	100%	0.053	0.021	0.05	12.02	13.20	1.312	0.070	22.1
Top side	100	QPSK 1_1	650000/3750	100%	0.035	0.010	0.09	12.02	13.20	1.312	0.046	22.1
Hotspot Test data (Separate 10mm 50%RB) State 8												
Front side	100	QPSK 135_69	650000/3750	100%	0.039	0.010	0.10	11.84	13.20	1.368	0.053	22.1
Back side	100	QPSK 135_69	650000/3750	100%	0.044	0.018	0.12	11.84	13.20	1.368	0.060	22.1
Left side	100	QPSK 135_69	650000/3750	100%	0.055	0.022	-0.05	11.84	13.20	1.368	0.075	22.1
Top side	100	QPSK 135_69	650000/3750	100%	0.043	0.014	0.08	11.84	13.20	1.368	0.059	22.1
Ant 7 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data(1RB) State 5												
Left cheek	100	QPSK 1_1	657200/3858	100%	0.613	0.252	0.17	16.56	17.20	1.159	0.710	22.1
Left tilted	100	QPSK 1_1	657200/3858	100%	0.922	0.318	-0.10	16.56	17.20	1.159	1.068	22.1
Right cheek	100	QPSK 1_1	657200/3858	100%	0.427	0.181	-0.19	16.56	17.20	1.159	0.495	22.1
Right tilted	100	QPSK 1_1	657200/3858	100%	0.548	0.211	-0.16	16.56	17.20	1.159	0.635	22.1
Left cheek	100	QPSK 1_1	650000/3750	100%	0.644	0.275	-0.01	16.42	17.20	1.197	0.771	22.1
Left cheek	100	QPSK 1_1	652400/3786	100%	0.580	0.264	-0.07	16.44	17.20	1.191	0.691	22.1
Left cheek	100	QPSK 1_271	654800/3822	100%	0.415	0.184	-0.14	16.29	17.20	1.233	0.512	22.1
Left cheek	100	QPSK 1_1	659600/3894	100%	0.465	0.206	0.18	16.37	17.20	1.211	0.563	22.1
Left cheek	100	QPSK 1_1	662000/3930	100%	0.412	0.181	0.11	16.44	17.20	1.191	0.491	22.1
Left tilted	100	QPSK 1_1	650000/3750	100%	0.969	0.347	0.03	16.42	17.20	1.197	1.160	22.1
Left tilted	100	QPSK 1_1	652400/3786	100%	0.872	0.333	0.05	16.44	17.20	1.191	1.039	22.1
Left tilted	100	QPSK 1_271	654800/3822	100%	0.624	0.232	-0.13	16.29	17.20	1.233	0.769	22.1
Left tilted	100	QPSK 1_1	659600/3894	100%	0.700	0.260	-0.05	16.37	17.20	1.211	0.847	22.1
Left tilted	100	QPSK 1_1	662000/3930	100%	0.619	0.229	0.16	16.44	17.20	1.191	0.737	22.1
Right cheek	100	QPSK 1_1	650000/3750	100%	0.449	0.198	-0.06	16.42	17.20	1.197	0.537	22.1
Right cheek	100	QPSK 1_1	652400/3786	100%	0.404	0.190	0.03	16.44	17.20	1.191	0.481	22.1
Right cheek	100	QPSK 1_271	654800/3822	100%	0.289	0.132	-0.14	16.29	17.20	1.233	0.356	22.1
Right cheek	100	QPSK 1_1	659600/3894	100%	0.324	0.148	-0.08	16.37	17.20	1.211	0.392	22.1
Right cheek	100	QPSK 1_1	662000/3930	100%	0.287	0.130	-0.09	16.44	17.20	1.191	0.342	22.1
Right tilted	100	QPSK 1_1	650000/3750	100%	0.576	0.230	0.19	16.42	17.20	1.197	0.689	22.1
Right tilted	100	QPSK 1_1	652400/3786	100%	0.518	0.221	-0.13	16.44	17.20	1.191	0.617	22.1
Right tilted	100	QPSK 1_271	654800/3822	100%	0.371	0.154	0.02	16.29	17.20	1.233	0.457	22.1
Right tilted	100	QPSK 1_1	659600/3894	100%	0.416	0.173	0.09	16.37	17.20	1.211	0.504	22.1
Right tilted	100	QPSK 1_1	662000/3930	100%	0.368	0.152	-0.05	16.44	17.20	1.191	0.438	22.1
Head Test Data(50%RB) State 5												
Left cheek	100	QPSK 135_69	659600/3894	100%	0.524	0.200	-0.04	16.38	17.20	1.208	0.633	22.1
Left tilted	100	QPSK 135_69	659600/3894	100%	0.567	0.210	0.10	16.38	17.20	1.208	0.685	22.1
Right cheek	100	QPSK 135_69	659600/3894	100%	0.326	0.137	-0.13	16.38	17.20	1.208	0.394	22.1
Right tilted	100	QPSK 135_69	659600/3894	100%	0.428	0.171	-0.09	16.38	17.20	1.208	0.517	22.1
Left cheek	100	QPSK 135_69	650000/3750	100%	0.866	0.351	-0.14	16.32	17.20	1.225	1.061	22.1
Left cheek	100	QPSK 135_69	652400/3786	100%	0.726	0.277	0.09	16.35	17.20	1.216	0.883	22.1



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 119 of 148

Left cheek	100	QPSK 135_69	654800/3822	100%	0.662	0.251	0.02	16.18	17.20	1.265	0.837	22.1
Left cheek	100	QPSK 135_69	657200/3858	100%	0.591	0.225	-0.09	16.35	17.20	1.216	0.719	22.1
Left cheek	100	QPSK 135_69	662000/3930	100%	0.491	0.187	0.01	16.36	17.20	1.213	0.596	22.1
Left tilted	100	QPSK 135_69	650000/3750	100%	0.937	0.369	0.13	16.32	17.20	1.225	1.147	22.1
Left tilted	100	QPSK 135_69	652400/3786	100%	0.786	0.291	0.13	16.35	17.20	1.216	0.956	22.1
Left tilted	100	QPSK 135_69	654800/3822	100%	0.716	0.264	-0.09	16.18	17.20	1.265	0.906	22.1
Left tilted	100	QPSK 135_69	657200/3858	100%	0.639	0.236	-0.01	16.35	17.20	1.216	0.777	22.1
Left tilted	100	QPSK 135_69	662000/3930	100%	0.531	0.196	-0.19	16.36	17.20	1.213	0.644	22.1
Right tilted	100	QPSK 135_69	650000/3750	100%	0.707	0.300	-0.09	16.32	17.20	1.225	0.866	22.1
Right tilted	100	QPSK 135_69	652400/3786	100%	0.593	0.237	0.13	16.35	17.20	1.216	0.721	22.1
Right tilted	100	QPSK 135_69	654800/3822	100%	0.540	0.215	-0.17	16.18	17.20	1.265	0.683	22.1
Right tilted	100	QPSK 135_69	657200/3858	100%	0.482	0.192	-0.06	16.35	17.20	1.216	0.586	22.1
Right tilted	100	QPSK 135_69	662000/3930	100%	0.401	0.160	0.08	16.36	17.20	1.213	0.487	22.1
Head Test Data(100%RB) State 5												
Left cheek	100	QPSK 270_0	650000/3750	100%	0.821	0.335	-0.03	15.39	16.20	1.205	0.989	22.1
Left tilted	100	QPSK 270_0	650000/3750	100%	0.886	0.303	0.08	15.39	16.20	1.205	1.068	22.1
Right tilted	100	QPSK 270_0	650000/3750	100%	0.657	0.273	-0.16	15.39	16.20	1.205	0.792	22.1
Head Test Data(1RB) State 10												
Left cheek	100	QPSK 1_1	657200/3858	100%	0.613	0.252	0.17	16.56	16.20	0.920	0.564	22.1
Left tilted	100	QPSK 1_1	657200/3858	100%	0.922	0.318	-0.10	16.56	16.20	0.920	0.849	22.1
Right cheek	100	QPSK 1_1	657200/3858	100%	0.427	0.181	-0.19	16.56	16.20	0.920	0.393	22.1
Right tilted	100	QPSK 1_1	657200/3858	100%	0.548	0.211	-0.16	16.56	16.20	0.920	0.504	22.1
Left cheek	100	QPSK 1_1	650000/3750	100%	0.644	0.275	-0.01	16.42	16.20	0.951	0.612	22.1
Left cheek	100	QPSK 1_1	652400/3786	100%	0.580	0.264	-0.07	16.44	16.20	0.946	0.549	22.1
Left cheek	100	QPSK 1_271	654800/3822	100%	0.415	0.184	-0.14	16.29	16.20	0.979	0.406	22.1
Left cheek	100	QPSK 1_1	659600/3894	100%	0.465	0.206	0.18	16.37	16.20	0.962	0.447	22.1
Left cheek	100	QPSK 1_1	662000/3930	100%	0.412	0.181	0.11	16.44	16.20	0.946	0.390	22.1
Left tilted	100	QPSK 1_1	650000/3750	100%	0.969	0.347	0.03	16.42	16.20	0.951	0.921	22.1
Left tilted	100	QPSK 1_1	652400/3786	100%	0.872	0.333	0.05	16.44	16.20	0.946	0.825	22.1
Left tilted	100	QPSK 1_271	654800/3822	100%	0.624	0.232	-0.13	16.29	16.20	0.979	0.611	22.1
Left tilted	100	QPSK 1_1	659600/3894	100%	0.700	0.260	-0.05	16.37	16.20	0.962	0.673	22.1
Left tilted	100	QPSK 1_1	662000/3930	100%	0.619	0.229	0.16	16.44	16.20	0.946	0.586	22.1
Right cheek	100	QPSK 1_1	650000/3750	100%	0.449	0.198	-0.06	16.42	16.20	0.951	0.427	22.1
Right cheek	100	QPSK 1_1	652400/3786	100%	0.404	0.190	0.03	16.44	16.20	0.946	0.382	22.1
Right cheek	100	QPSK 1_271	654800/3822	100%	0.289	0.132	-0.14	16.29	16.20	0.979	0.283	22.1
Right cheek	100	QPSK 1_1	659600/3894	100%	0.324	0.148	-0.08	16.37	16.20	0.962	0.312	22.1
Right cheek	100	QPSK 1_1	662000/3930	100%	0.287	0.130	-0.09	16.44	16.20	0.946	0.272	22.1
Right tilted	100	QPSK 1_1	650000/3750	100%	0.576	0.230	0.19	16.42	16.20	0.951	0.548	22.1
Right tilted	100	QPSK 1_1	652400/3786	100%	0.518	0.221	-0.13	16.44	16.20	0.946	0.490	22.1
Right tilted	100	QPSK 1_271	654800/3822	100%	0.371	0.154	0.02	16.29	16.20	0.979	0.363	22.1
Right tilted	100	QPSK 1_1	659600/3894	100%	0.416	0.173	0.09	16.37	16.20	0.962	0.400	22.1
Right tilted	100	QPSK 1_1	662000/3930	100%	0.368	0.152	-0.05	16.44	16.20	0.946	0.348	22.1



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 120 of 148

Head Test Data(50%RB) State 10												
Left cheek	100	QPSK 135_69	659600/3894	100%	0.524	0.200	-0.04	16.38	16.20	0.959	0.503	22.1
Left tilted	100	QPSK 135_69	659600/3894	100%	0.567	0.210	0.10	16.38	16.20	0.959	0.544	22.1
Right cheek	100	QPSK 135_69	659600/3894	100%	0.326	0.137	-0.13	16.38	16.20	0.959	0.313	22.1
Right tilted	100	QPSK 135_69	659600/3894	100%	0.428	0.171	-0.09	16.38	16.20	0.959	0.411	22.1
Left cheek	100	QPSK 135_69	650000/3750	100%	0.866	0.351	-0.14	16.32	16.20	0.973	0.842	22.1
Left cheek	100	QPSK 135_69	652400/3786	100%	0.726	0.277	0.09	16.35	16.20	0.966	0.701	22.1
Left cheek	100	QPSK 135_69	654800/3822	100%	0.662	0.251	0.02	16.18	16.20	1.005	0.665	22.1
Left cheek	100	QPSK 135_69	657200/3858	100%	0.591	0.225	-0.09	16.35	16.20	0.966	0.571	22.1
Left cheek	100	QPSK 135_69	662000/3930	100%	0.491	0.187	0.01	16.36	16.20	0.964	0.473	22.1
Left tilted	100	QPSK 135_69	650000/3750	100%	0.937	0.369	0.13	16.32	16.20	0.973	0.911	22.1
Left tilted	100	QPSK 135_69	652400/3786	100%	0.786	0.291	0.13	16.35	16.20	0.966	0.759	22.1
Left tilted	100	QPSK 135_69	654800/3822	100%	0.716	0.264	-0.09	16.18	16.20	1.005	0.719	22.1
Left tilted	100	QPSK 135_69	657200/3858	100%	0.639	0.236	-0.01	16.35	16.20	0.966	0.617	22.1
Left tilted	100	QPSK 135_69	662000/3930	100%	0.531	0.196	-0.19	16.36	16.20	0.964	0.512	22.1
Right tilted	100	QPSK 135_69	650000/3750	100%	0.707	0.300	-0.09	16.32	16.20	0.973	0.688	22.1
Right tilted	100	QPSK 135_69	652400/3786	100%	0.593	0.237	0.13	16.35	16.20	0.966	0.573	22.1
Right tilted	100	QPSK 135_69	654800/3822	100%	0.540	0.215	-0.17	16.18	16.20	1.005	0.542	22.1
Right tilted	100	QPSK 135_69	657200/3858	100%	0.482	0.192	-0.06	16.35	16.20	0.966	0.466	22.1
Right tilted	100	QPSK 135_69	662000/3930	100%	0.401	0.160	0.08	16.36	16.20	0.964	0.386	22.1
Head Test Data(100%RB) State 10												
Left cheek	100	QPSK 270_0	650000/3750	100%	0.821	0.335	-0.03	15.39	15.20	0.957	0.786	22.1
Left tilted	100	QPSK 270_0	650000/3750	100%	0.886	0.303	0.08	15.39	15.20	0.957	0.848	22.1
Right tilted	100	QPSK 270_0	650000/3750	100%	0.657	0.273	-0.16	15.39	15.20	0.957	0.629	22.1
Body worn Test data(Separate 15mm 1RB) State 3												
Front side	100	QPSK 1_1	657200/3858	100%	0.156	0.072	0.14	20.53	21.20	1.167	0.182	22.3
Back side	100	QPSK 1_1	657200/3858	100%	0.264	0.118	0.09	20.53	21.20	1.167	0.308	22.3
Body worn Test data(Separate 15mm 50%RB) State 3												
Front side	100	QPSK 135_69	659600/3894	100%	0.125	0.056	0.17	20.47	21.20	1.183	0.148	22.3
Back side	100	QPSK 135_69	659600/3894	100%	0.215	0.095	-0.14	20.47	21.20	1.183	0.254	22.3
Hotspot Test data(Separate 10mm 1RB) State 8												
Front side	100	QPSK 1_1	657200/3858	100%	0.188	0.081	-0.05	18.51	19.20	1.172	0.220	22.3
Back side	100	QPSK 1_1	657200/3858	100%	0.360	0.146	0.18	18.51	19.20	1.172	0.422	22.3
Right side	100	QPSK 1_1	657200/3858	100%	0.048	0.022	0.00	18.51	19.20	1.172	0.056	22.3
Top side	100	QPSK 1_1	657200/3858	100%	0.448	0.187	0.18	18.51	19.20	1.172	0.525	22.3
Back side	100	QPSK 1_1	650000/3750	100%	0.437	0.189	-0.18	18.29	19.20	1.233	0.539	22.3
Back side	100	QPSK 1_1	652400/3786	100%	0.448	0.183	0.00	18.47	19.20	1.183	0.530	22.3
Back side	100	QPSK 1_1	654800/3822	100%	0.392	0.161	-0.16	18.40	19.20	1.202	0.471	22.3
Back side	100	QPSK 1_137	659600/3894	100%	0.271	0.114	-0.12	18.40	19.20	1.202	0.326	22.3
Back side	100	QPSK 1_271	662000/3930	100%	0.201	0.084	-0.17	18.49	19.20	1.178	0.237	22.3
Top side	100	QPSK 1_1	650000/3750	100%	0.543	0.234	-0.02	18.29	19.20	1.233	0.670	22.3
Top side	100	QPSK 1_1	652400/3786	100%	0.525	0.223	-0.05	18.47	19.20	1.183	0.621	22.3
Top side	100	QPSK 1_1	654800/3822	100%	0.456	0.194	-0.11	18.40	19.20	1.202	0.548	22.3
Top side	100	QPSK 1_137	659600/3894	100%	0.402	0.164	-0.12	18.40	19.20	1.202	0.483	22.3



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 121 of 148

Top side	100	QPSK 1_271	662000/3930	100%	0.316	0.129	-0.03	18.49	19.20	1.178	0.372	22.3
Hotspot Test data(Separate 10mm 50%RB) State 8												
Front side	100	QPSK 135_69	659600/3894	100%	0.159	0.066	0.16	18.57	19.20	1.156	0.184	22.3
Back side	100	QPSK 135_69	659600/3894	100%	0.289	0.113	-0.18	18.57	19.20	1.156	0.334	22.3
Right side	100	QPSK 135_69	659600/3894	100%	0.046	0.015	0.13	18.57	19.20	1.156	0.053	22.3
Top side	100	QPSK 135_69	659600/3894	100%	0.330	0.147	0.01	18.57	19.20	1.156	0.382	22.3
Ant 10 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) State 5												
Left cheek	100	QPSK 1_1	652400/3786	100%	0.202	0.089	0.04	16.90	18.20	1.349	0.272	22.1
Left tilted	100	QPSK 1_1	652400/3786	100%	0.190	0.084	-0.19	16.90	18.20	1.349	0.256	22.1
Right cheek	100	QPSK 1_1	652400/3786	100%	0.724	0.323	0.05	16.90	18.20	1.349	0.977	22.1
Right tilted	100	QPSK 1_1	652400/3786	100%	0.539	0.205	-0.14	16.90	18.20	1.349	0.727	22.1
Right cheek	100	QPSK 1_1	650000/3750	100%	0.811	0.361	-0.09	16.85	18.20	1.365	1.107	22.1
Right cheek	100	QPSK 1_1	654800/3822	100%	0.759	0.331	-0.06	16.72	18.20	1.406	1.067	22.1
Right cheek	100	QPSK 1_1	657200/3858	100%	0.731	0.317	0.04	16.83	18.20	1.371	1.002	22.1
Right cheek	100	QPSK 1_1	659600/3894	100%	0.718	0.311	0.10	16.63	18.20	1.435	1.031	22.1
Right cheek	100	QPSK 1_1	662000/3930	100%	0.710	0.306	0.10	16.79	18.20	1.384	0.982	22.1
Right tilted	100	QPSK 1_1	650000/3750	100%	0.604	0.229	0.12	16.85	18.20	1.365	0.824	22.1
Right tilted	100	QPSK 1_1	654800/3822	100%	0.565	0.210	0.09	16.72	18.20	1.406	0.794	22.1
Right tilted	100	QPSK 1_1	657200/3858	100%	0.544	0.201	0.02	16.83	18.20	1.371	0.746	22.1
Right tilted	100	QPSK 1_1	659600/3894	100%	0.535	0.197	0.11	16.63	18.20	1.435	0.768	22.1
Right tilted	100	QPSK 1_1	662000/3930	100%	0.529	0.194	0.04	16.79	18.20	1.384	0.732	22.1
Head Test Data(50%RB) State 5												
Left cheek	100	QPSK 135_69	662000/3930	100%	0.164	0.075	0.02	16.81	18.20	1.377	0.226	22.1
Left tilted	100	QPSK 135_69	662000/3930	100%	0.154	0.071	0.01	16.81	18.20	1.377	0.212	22.1
Right cheek	100	QPSK 135_69	662000/3930	100%	0.676	0.293	-0.13	16.81	18.20	1.377	0.931	22.1
Right tilted	100	QPSK 135_69	662000/3930	100%	0.437	0.173	0.05	16.81	18.20	1.377	0.602	22.1
Right cheek	100	QPSK 135_69	650000/3750	100%	0.729	0.321	0.02	16.60	18.20	1.445	1.054	22.1
Right cheek	100	QPSK 135_69	652400/3786	100%	0.657	0.286	-0.04	16.35	18.20	1.531	1.006	22.1
Right cheek	100	QPSK 135_69	654800/3822	100%	0.675	0.293	0.08	16.63	18.20	1.435	0.969	22.1
Right cheek	100	QPSK 135_69	657200/3858	100%	0.667	0.288	-0.11	16.78	18.20	1.387	0.925	22.1
Right cheek	100	QPSK 135_69	659600/3894	100%	0.661	0.285	0.11	16.64	18.20	1.432	0.947	22.1
Right tilted	100	QPSK 135_69	650000/3750	100%	0.471	0.190	0.04	16.60	18.20	1.445	0.681	22.1
Right tilted	100	QPSK 135_69	652400/3786	100%	0.425	0.169	0.02	16.35	18.20	1.531	0.651	22.1
Right tilted	100	QPSK 135_69	654800/3822	100%	0.436	0.173	-0.17	16.63	18.20	1.435	0.626	22.1
Right tilted	100	QPSK 135_69	657200/3858	100%	0.431	0.170	-0.12	16.78	18.20	1.387	0.598	22.1
Right tilted	100	QPSK 135_69	659600/3894	100%	0.427	0.168	0.07	16.64	18.20	1.432	0.612	22.1
Head Test Data(100%RB) State 5												
Right cheek	100	QPSK 270_0	654800/3822	100%	0.529	0.230	-0.18	15.73	17.20	1.403	0.742	22.1
Right tilted	100	QPSK 270_0	654800/3822	100%	0.379	0.153	0.03	15.73	17.20	1.403	0.532	22.1



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 122 of 148

Body worn Test data(Separate 15mm 1RB) State 3												
Front side	100	QPSK 1_1	652400/3786	100%	0.101	0.049	-0.03	18.28	19.70	1.387	0.140	22.3
Back side	100	QPSK 1_1	652400/3786	100%	0.180	0.085	-0.12	18.28	19.70	1.387	0.250	22.3
Body worn Test data(Separate 15mm 50%RB) State 3												
Front side	100	QPSK 135_69	662000/3930	100%	0.091	0.044	0.04	18.29	19.70	1.384	0.126	22.3
Back side	100	QPSK 135_69	662000/3930	100%	0.162	0.073	-0.02	18.29	19.70	1.384	0.224	22.3
Hotspot Test data(Separate 10mm 1RB) State 8												
Front side	100	QPSK 1_1	652400/3786	100%	0.113	0.055	-0.13	16.32	17.70	1.374	0.155	22.3
Back side	100	QPSK 1_1	652400/3786	100%	0.242	0.107	-0.01	16.32	17.70	1.374	0.333	22.3
Left side	100	QPSK 1_1	652400/3786	100%	0.333	0.142	0.07	16.32	17.70	1.374	0.458	22.3
Top side	100	QPSK 1_1	652400/3786	100%	0.136	0.058	0.11	16.32	17.70	1.374	0.187	22.3
Left side	100	QPSK 1_1	650000/3750	100%	0.341	0.140	-0.15	16.24	17.70	1.400	0.477	22.3
Left side	100	QPSK 1_1	654800/3822	100%	0.355	0.145	0.11	16.18	17.70	1.419	0.504	22.3
Left side	100	QPSK 1_1	657200/3858	100%	0.367	0.149	0.04	16.26	17.70	1.393	0.511	22.3
Left side	100	QPSK 1_1	659600/3894	100%	0.374	0.150	0.18	16.22	17.70	1.406	0.526	22.3
Left side	100	QPSK 1_1	662000/3930	100%	0.373	0.150	-0.02	16.14	17.70	1.432	0.534	22.3
Hotspot Test data(Separate 10mm 50%RB) State 8												
Front side	100	QPSK 135_69	662000/3930	100%	0.105	0.050	0.12	16.37	17.70	1.358	0.143	22.3
Back side	100	QPSK 135_69	662000/3930	100%	0.217	0.090	-0.13	16.37	17.70	1.358	0.295	22.3
Left side	100	QPSK 135_69	662000/3930	100%	0.342	0.136	-0.10	16.37	17.70	1.358	0.465	22.3
Top side	100	QPSK 135_69	662000/3930	100%	0.094	0.038	-0.14	16.37	17.70	1.358	0.128	22.3
Left side	100	QPSK 135_69	650000/3750	100%	0.349	0.143	-0.11	16.09	17.70	1.449	0.506	22.3
Left side	100	QPSK 135_69	652400/3786	100%	0.367	0.150	0.16	15.87	17.70	1.524	0.559	22.3
Left side	100	QPSK 135_69	654800/3822	100%	0.366	0.149	0.16	16.10	17.70	1.445	0.529	22.3
Left side	100	QPSK 135_69	657200/3858	100%	0.372	0.150	0.01	16.24	17.70	1.400	0.521	22.3
Left side	100	QPSK 135_69	659600/3894	100%	0.364	0.148	0.15	16.09	17.70	1.449	0.527	22.3

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Left tilted	652400/3786	1.04	1.010	1.030	N/A	N/A
Top side	652400/3786	0.921	0.892	1.033	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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8.2.21 SAR Result of WIFI 2.4G

Wi-Fi 2.4G SAR Test Record												
Ant8 Test Record chain0												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data												
Left cheek	802.11b	6/2437	98.65%	1.014	0.831	0.341	0.03	15.20	15.50	1.072	0.903	22.1
Left cheek-Repeated	802.11b	6/2437	98.65%	1.014	0.817	0.336	0.13	15.20	15.50	1.072	0.887	22.1
Left cheek with Sample2	802.11b	6/2437	98.65%	1.014	0.814	0.334	0.08	15.20	15.50	1.072	0.884	22.1
Left tilted	802.11b	6/2437	98.65%	1.014	0.170	0.093	-0.06	15.20	15.50	1.072	0.185	22.1
Right cheek	802.11b	6/2437	98.65%	1.014	0.217	0.114	0.18	15.20	15.50	1.072	0.236	22.1
Right tilted	802.11b	6/2437	98.65%	1.014	0.067	0.037	0.04	15.20	15.50	1.072	0.073	22.1
Left cheek	802.11b	11/2462	98.65%	1.014	0.543	0.240	0.11	14.78	15.50	1.180	0.650	22.1
Head Test Data with Simultaneous transmission												
Left cheek	802.11b	6/2437	98.65%	1.014	0.831	0.341	0.03	15.20	13.50	0.676	0.570	22.1
Left cheek-Repeated	802.11b	6/2437	98.65%	1.014	0.817	0.336	0.13	15.20	13.50	0.676	0.560	22.1
Left cheek with Sample2	802.11b	6/2437	98.65%	1.014	0.814	0.334	0.08	15.20	13.50	0.676	0.558	22.1
Left tilted	802.11b	6/2437	98.65%	1.014	0.170	0.093	-0.06	15.20	13.50	0.676	0.117	22.1
Right cheek	802.11b	6/2437	98.65%	1.014	0.217	0.114	0.18	15.20	13.50	0.676	0.149	22.1
Right tilted	802.11b	6/2437	98.65%	1.014	0.067	0.037	0.04	15.20	13.50	0.676	0.046	22.1
Left cheek	802.11b	11/2462	98.65%	1.014	0.543	0.240	0.11	14.78	13.50	0.745	0.410	22.1
Body worn Test data (Separate 15mm)												
Front side	802.11b	6/2437	98.65%	1.014	0.144	0.078	0.03	19.14	19.50	1.086	0.159	22.1
Back side	802.11b	6/2437	98.65%	1.014	0.261	0.145	0.09	19.14	19.50	1.086	0.287	22.1
Back side with Sample2	802.11b	6/2437	98.65%	1.014	0.252	0.141	0.04	19.14	19.50	1.086	0.278	22.1
Hotspot Test data (Separate 10mm)												
Front side	802.11b	6/2437	98.65%	1.014	0.289	0.149	0.18	19.14	19.50	1.086	0.318	22.1
Back side	802.11b	6/2437	98.65%	1.014	0.317	0.168	0.15	19.14	19.50	1.086	0.349	22.1
Right side	802.11b	6/2437	98.65%	1.014	0.664	0.313	-0.08	19.14	19.50	1.086	0.731	22.1
Right side with Sample2	802.11b	6/2437	98.65%	1.014	0.641	0.302	-0.03	19.14	19.50	1.086	0.706	22.1
Top side	802.11b	6/2437	98.65%	1.014	0.125	0.068	-0.01	19.14	19.50	1.086	0.138	22.1
Hotspot Test data (Separate 10mm) with Simultaneous transmission												
Front side	802.11b	6/2437	98.65%	1.014	0.289	0.149	0.18	19.14	17.00	0.611	0.179	22.1
Back side	802.11b	6/2437	98.65%	1.014	0.317	0.168	0.15	19.14	17.00	0.611	0.196	22.1
Right side	802.11b	6/2437	98.65%	1.014	0.664	0.313	-0.08	19.14	17.00	0.611	0.411	22.1
Right side with Sample2	802.11b	6/2437	98.65%	1.014	0.641	0.302	-0.03	19.14	17.00	0.611	0.397	22.1
Top side	802.11b	6/2437	98.65%	1.014	0.125	0.068	-0.01	19.14	17.00	0.611	0.077	22.1



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 124 of 148

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Left cheek	6/2437	0.831	0.817	1.017	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.

2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

5) The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 125 of 148

8.2.22 SAR Result of WIFI 5G

Wi-Fi 5G SAR Test Record												
Ant8 Test Record chain0												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-2A												
Left cheek	802.11n 40M	62/5310	96.44%	1.037	0.413	0.135	0.03	16.69	18.50	1.517	0.650	22.2
Left cheek with Sample2	802.11n 40M	62/5310	96.44%	1.037	0.405	0.131	0.06	16.69	18.50	1.517	0.637	22.2
Left tilted	802.11n 40M	62/5310	96.44%	1.037	0.358	0.125	-0.07	16.69	18.50	1.517	0.563	22.2
Right cheek	802.11n 40M	62/5310	96.44%	1.037	0.184	0.060	-0.13	16.69	18.50	1.517	0.289	22.2
Right tilted	802.11n 40M	62/5310	96.44%	1.037	0.179	0.060	-0.07	16.69	18.50	1.517	0.282	22.2
Head Test Data of U-NII-2C												
Left cheek	802.11ac VHT80	122/5610	93.00%	1.075	0.052	0.013	-0.05	17.72	18.50	1.197	0.067	22.2
Left tilted	802.11ac VHT80	122/5610	93.00%	1.075	0.039	0.009	0.13	17.72	18.50	1.197	0.050	22.2
Right cheek	802.11ac VHT80	122/5610	93.00%	1.075	0.331	0.106	-0.08	17.72	18.50	1.197	0.426	22.2
Right tilted	802.11ac VHT80	122/5610	93.00%	1.075	0.354	0.111	-0.15	17.72	18.50	1.197	0.456	22.2
Head Test Data of U-NII-3												
Left cheek	802.11a	165/5825	98.33%	1.017	0.036	0.009	-0.14	18.14	18.50	1.086	0.040	22.2
Left tilted	802.11a	165/5825	98.33%	1.017	0.031	0.007	-0.05	18.14	18.50	1.086	0.034	22.2
Right cheek	802.11a	165/5825	98.33%	1.017	0.300	0.095	-0.16	18.14	18.50	1.086	0.331	22.2
Right tilted	802.11a	165/5825	98.33%	1.017	0.314	0.101	-0.15	18.14	18.50	1.086	0.347	22.2
Head Test Data of U-NII-2A with WiFi 5G+WWAN												
Left cheek	802.11n 40M	62/5310	96.44%	1.037	0.413	0.135	0.03	16.69	16.00	0.853	0.365	22.2
Left cheek with Sample2	802.11n 40M	62/5310	96.44%	1.037	0.405	0.131	0.06	16.69	16.00	0.853	0.358	22.2
Left tilted	802.11n 40M	62/5310	96.44%	1.037	0.358	0.125	-0.07	16.69	16.00	0.853	0.317	22.2
Right cheek	802.11n 40M	62/5310	96.44%	1.037	0.184	0.060	-0.13	16.69	16.00	0.853	0.163	22.2
Right tilted	802.11n 40M	62/5310	96.44%	1.037	0.179	0.060	-0.07	16.69	16.00	0.853	0.158	22.2
Head Test Data of U-NII-2C with WiFi 5G+WWAN												
Left cheek	802.11ac VHT80	122/5610	93.00%	1.075	0.052	0.013	-0.05	17.72	16.00	0.673	0.038	22.2
Left tilted	802.11ac VHT80	122/5610	93.00%	1.075	0.039	0.009	0.13	17.72	16.00	0.673	0.028	22.2
Right cheek	802.11ac VHT80	122/5610	93.00%	1.075	0.331	0.106	-0.08	17.72	16.00	0.673	0.240	22.2
Right tilted	802.11ac VHT80	122/5610	93.00%	1.075	0.354	0.111	-0.15	17.72	16.00	0.673	0.256	22.2
Head Test Data of U-NII-3 with WiFi 5G+WWAN												
Left cheek	802.11a	165/5825	98.33%	1.017	0.036	0.009	-0.14	18.14	16.00	0.611	0.022	22.2
Left tilted	802.11a	165/5825	98.33%	1.017	0.031	0.007	-0.05	18.14	16.00	0.611	0.019	22.2
Right cheek	802.11a	165/5825	98.33%	1.017	0.300	0.095	-0.16	18.14	16.00	0.611	0.186	22.2
Right tilted	802.11a	165/5825	98.33%	1.017	0.314	0.101	-0.15	18.14	16.00	0.611	0.195	22.2
Head Test Data of U-NII-2A with WiFi 5G+WWAN+BT												
Left cheek	802.11n 40M	62/5310	96.44%	1.037	0.413	0.135	0.03	16.69	14.50	0.604	0.259	22.2
Left cheek with Sample2	802.11n 40M	62/5310	96.44%	1.037	0.405	0.131	0.06	16.69	14.50	0.604	0.254	22.2
Left tilted	802.11n 40M	62/5310	96.44%	1.037	0.358	0.125	-0.07	16.69	14.50	0.604	0.224	22.2
Right cheek	802.11n 40M	62/5310	96.44%	1.037	0.184	0.060	-0.13	16.69	14.50	0.604	0.115	22.2
Right tilted	802.11n 40M	62/5310	96.44%	1.037	0.179	0.060	-0.07	16.69	14.50	0.604	0.112	22.2



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 126 of 148

Head Test Data of U-NII-2C with WiFi 5G+WWAN+BT												
Left cheek	802.11ac VHT80	122/5610	93.00%	1.075	0.052	0.013	-0.05	17.72	14.50	0.476	0.027	22.2
Left tilted	802.11ac VHT80	122/5610	93.00%	1.075	0.039	0.009	0.13	17.72	14.50	0.476	0.020	22.2
Right cheek	802.11ac VHT80	122/5610	93.00%	1.075	0.331	0.106	-0.08	17.72	14.50	0.476	0.170	22.2
Right tilted	802.11ac VHT80	122/5610	93.00%	1.075	0.354	0.111	-0.15	17.72	14.50	0.476	0.181	22.2
Head Test Data of U-NII-3 with WiFi 5G+WWAN+BT												
Left cheek	802.11a	165/5825	98.33%	1.017	0.036	0.009	-0.14	18.14	14.50	0.433	0.016	22.2
Left tilted	802.11a	165/5825	98.33%	1.017	0.031	0.007	-0.05	18.14	14.50	0.433	0.014	22.2
Right cheek	802.11a	165/5825	98.33%	1.017	0.300	0.095	-0.16	18.14	14.50	0.433	0.132	22.2
Right tilted	802.11a	165/5825	98.33%	1.017	0.314	0.101	-0.15	18.14	14.50	0.433	0.138	22.2
Body worn Test data of U-NII-2A (Separate 15mm)												
Front side	802.11n 40M	62/5310	96.44%	1.037	0.092	0.04	-0.10	17.09	19.00	1.552	0.148	22.2
Back side	802.11n 40M	62/5310	96.44%	1.037	0.169	0.07	-0.10	17.09	19.00	1.552	0.272	22.2
Body worn Test data of U-NII-2C (Separate 15mm)												
Front side	802.11ac VHT80	122/5610	93.00%	1.075	0.198	0.076	-0.10	18.19	19.00	1.205	0.257	22.2
Back side	802.11ac VHT80	122/5610	93.00%	1.075	0.260	0.102	0.01	18.19	19.00	1.205	0.337	22.2
Back side with Sample2	802.11ac VHT80	122/5610	93.00%	1.075	0.246	0.096	0.03	18.19	19.00	1.205	0.319	22.2
Body worn Test data of U-NII-3 (Separate 15mm)												
Front side	802.11a	165/5825	98.33%	1.017	0.165	0.065	-0.18	18.59	19.00	1.099	0.184	22.2
Back side	802.11a	165/5825	98.33%	1.017	0.265	0.105	0.09	18.59	19.00	1.099	0.296	22.2
Hotspot Test data of U-NII-1 (Separate 10mm)												
Front side	802.11n 40M	38/5190	96.44%	1.037	0.165	0.064	0.03	17.09	19.00	1.552	0.266	22.2
Back side	802.11n 40M	38/5190	96.44%	1.037	0.186	0.074	0.13	17.09	19.00	1.552	0.299	22.2
Right side	802.11n 40M	38/5190	96.44%	1.037	0.331	0.122	0.01	17.09	19.00	1.552	0.533	22.2
Top side	802.11n 40M	38/5190	96.44%	1.037	0.141	0.064	0.07	17.09	19.00	1.552	0.227	22.2
Hotspot Test data of U-NII-3 (Separate 10mm)												
Front side	802.11a	165/5825	98.33%	1.017	0.291	0.109	0.01	18.59	19.00	1.099	0.325	22.2
Back side	802.11a	165/5825	98.33%	1.017	0.429	0.166	-0.14	18.59	19.00	1.099	0.479	22.2
Right side	802.11a	165/5825	98.33%	1.017	0.654	0.239	0.05	18.59	19.00	1.099	0.731	22.2
Right side with Sample2	802.11a	165/5825	98.33%	1.017	0.637	0.231	0.07	18.59	19.00	1.099	0.712	22.2
Top side	802.11a	165/5825	98.33%	1.017	0.267	0.109	0.11	18.59	19.00	1.099	0.298	22.2
Hotspot Test data of U-NII-1 (Separate 10mm) with WiFi 5G+WWAN												
Front side	802.11n 40M	38/5190	96.44%	1.037	0.165	0.064	0.03	17.09	18.00	1.233	0.211	22.2
Back side	802.11n 40M	38/5190	96.44%	1.037	0.186	0.074	0.13	17.09	18.00	1.233	0.238	22.2
Right side	802.11n 40M	38/5190	96.44%	1.037	0.331	0.122	0.01	17.09	18.00	1.233	0.423	22.2
Top side	802.11n 40M	38/5190	96.44%	1.037	0.141	0.064	0.07	17.09	18.00	1.233	0.180	22.2
Hotspot Test data of U-NII-3 (Separate 10mm) with WiFi 5G+WWAN												
Front side	802.11a	165/5825	98.33%	1.017	0.291	0.109	0.01	18.59	18.00	0.873	0.258	22.2
Back side	802.11a	165/5825	98.33%	1.017	0.429	0.166	-0.14	18.59	18.00	0.873	0.381	22.2
Right side	802.11a	165/5825	98.33%	1.017	0.654	0.239	0.05	18.59	18.00	0.873	0.581	22.2
Right side with Sample2	802.11a	165/5825	98.33%	1.017	0.637	0.231	0.07	18.59	18.00	0.873	0.566	22.2
Top side	802.11a	165/5825	98.33%	1.017	0.267	0.109	0.11	18.59	18.00	0.873	0.237	22.2



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 127 of 148

Hotspot Test data of U-NII-1 (Separate 10mm) with WiFi 5G+WWAN+BT												
Front side	802.11n 40M	38/5190	96.44%	1.037	0.165	0.064	0.03	17.09	14.50	0.551	0.094	22.2
Back side	802.11n 40M	38/5190	96.44%	1.037	0.186	0.074	0.13	17.09	14.50	0.551	0.106	22.2
Right side	802.11n 40M	38/5190	96.44%	1.037	0.331	0.122	0.01	17.09	14.50	0.551	0.189	22.2
Top side	802.11n 40M	38/5190	96.44%	1.037	0.141	0.064	0.07	17.09	14.50	0.551	0.081	22.2
Hotspot Test data of U-NII-3 (Separate 10mm) with WiFi 5G+WWAN												
Front side	802.11a	165/5825	98.33%	1.017	0.291	0.109	0.01	18.59	14.50	0.390	0.115	22.2
Back side	802.11a	165/5825	98.33%	1.017	0.429	0.166	-0.14	18.59	14.50	0.390	0.170	22.2
Right side	802.11a	165/5825	98.33%	1.017	0.654	0.239	0.05	18.59	14.50	0.390	0.259	22.2
Right side with Sample2	802.11a	165/5825	98.33%	1.017	0.637	0.231	0.07	18.59	14.50	0.390	0.253	22.2
Top side	802.11a	165/5825	98.33%	1.017	0.267	0.109	0.11	18.59	14.50	0.390	0.106	22.2
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm)												
Front side	802.11n 40M	62/5310	96.44%	1.037	1.580	0.474	-0.17	17.09	19.00	1.552	0.763	22.2
Back side	802.11n 40M	62/5310	96.44%	1.037	1.270	0.385	0.10	17.09	19.00	1.552	0.620	22.2
Right side	802.11n 40M	62/5310	96.44%	1.037	4.720	1.170	0.06	17.09	19.00	1.552	1.883	22.2
Right side with Sample2	802.11n 40M	62/5310	96.44%	1.037	4.540	1.060	0.01	17.09	19.00	1.552	1.706	22.2
Top side	802.11n 40M	62/5310	96.44%	1.037	0.582	0.192	0.03	17.09	19.00	1.552	0.309	22.2
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm)												
Front side	802.11ac VHT80	122/5610	93.00%	1.075	3.280	0.950	-0.18	18.19	19.00	1.205	1.231	22.2
Back side	802.11ac VHT80	122/5610	93.00%	1.075	2.090	0.710	-0.14	18.19	19.00	1.205	0.920	22.2
Right side	802.11ac VHT80	122/5610	93.00%	1.075	6.430	1.380	0.02	18.19	19.00	1.205	1.788	22.2
Top side	802.11ac VHT80	122/5610	93.00%	1.075	1.250	0.361	-0.15	18.19	19.00	1.205	0.468	22.2



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8.2.23 SAR Result of BT

Bluetooth SAR Test Record												
Ant8 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data												
Left cheek	DH5	39/2441	77.59%	1.289	0.257	0.106	-0.05	12.56	13.00	1.107	0.367	22.2
Left cheek with Sample2	DH5	39/2441	77.59%	1.289	0.252	0.103	-0.02	12.56	13.00	1.107	0.359	22.2
Left tilted	DH5	39/2441	77.59%	1.289	0.060	0.032	0.04	12.56	13.00	1.107	0.086	22.2
Right cheek	DH5	39/2441	77.59%	1.289	0.101	0.053	0.14	12.56	13.00	1.107	0.144	22.2
Right tilted	DH5	39/2441	77.59%	1.289	0.060	0.030	-0.02	12.56	13.00	1.107	0.086	22.2
Body worn Test data (Separate 15mm)												
Front side	DH5	39/2441	77.59%	1.289	0.079	0.042	-0.01	17.65	18.00	1.084	0.110	22.1
Back side	DH5	39/2441	77.59%	1.289	0.123	0.066	0.05	17.65	18.00	1.084	0.172	22.1
Back side with Sample2	DH5	39/2441	77.59%	1.289	0.115	0.061	0.08	17.65	18.00	1.084	0.161	22.1
Hotspot Test data (Separate 10mm)												
Front side	DH5	39/2441	77.59%	1.289	0.160	0.082	-0.12	17.65	18.00	1.084	0.224	22.1
Back side	DH5	39/2441	77.59%	1.289	0.268	0.132	0.17	17.65	18.00	1.084	0.374	22.1
Right side	DH5	39/2441	77.59%	1.289	0.274	0.128	-0.10	17.65	18.00	1.084	0.383	22.1
Right side with Sample2	DH5	39/2441	77.59%	1.289	0.259	0.120	-0.13	17.65	18.00	1.084	0.362	22.1
Top side	DH5	39/2441	77.59%	1.289	0.065	0.036	-0.03	17.65	18.00	1.084	0.091	22.1



8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR test evaluation

No.	Simultaneous Tx Combination	Head	Body	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WiFi 2.4G	Yes	Yes	Yes	Yes
2	WWAN + WiFi 5G	Yes	Yes	Yes	Yes
3	WWAN + BT	Yes	Yes	Yes	Yes
4	WiFi 5G + BT	Yes	Yes	Yes	Yes
5	WWAN + WiFi 5G + BT	Yes	Yes	Yes	Yes
6	WWAN + WiFi 2.4G+NFC	NO	NO	NO	Yes
7	WWAN + WiFi 5G+NFC	NO	NO	NO	Yes
8	WWAN + BT+NFC	NO	NO	NO	Yes
9	WiFi 5G + BT+NFC	NO	NO	NO	Yes
10	WWAN + WiFi 5G + BT+NFC	NO	NO	NO	Yes

Note:

- 1) The device does not support DTM function.
- 2) NFC is different from the working scenario of WWAN/WIFI(Head/Body-worn/Hotspot) and does not participate in the simultaneous transmission.
- 3) The NFC test data can be referred to NFC SAR test report (Report No.: SUCR241100047201).
- 4) For WiFi 5G,U-NII-2A and U-NII-2C band does not support hotspot function.

8.3.2 Simultaneous Transmission SAR Summation Scenario

Head:

Test position		SARmax (W/kg)		Summed SAR
		WiFi 5G Ant8	BT	
		1	2	
WLAN	Left cheek	0.650	0.367	1.017
	Left tilted	0.563	0.086	0.649
	Right cheek	0.426	0.144	0.570
	Right tilted	0.456	0.086	0.542

Test position		SARmax (W/kg)					Summed SAR			
		Main Ant0	WiFi 2.4G Ant8	WiFi 5G Ant8 with WiFi 5G+WWAN	WiFi 5G Ant8 with WiFi 5G+WWAN+BT	BT				
		1	2	3		4				
GSM850	Left cheek	0.686	0.570	0.365	0.259	0.367	1.256	1.051	1.053	1.312
	Left tilted	0.252	0.117	0.317	0.224	0.086	0.369	0.569	0.338	0.562
	Right cheek	0.870	0.149	0.240	0.170	0.144	1.019	1.110	1.014	1.184
	Right tilted	0.222	0.046	0.256	0.181	0.086	0.268	0.478	0.308	0.489
WCDMA B5	Left cheek	0.547	0.570	0.365	0.259	0.367	1.117	0.912	0.914	1.173
	Left tilted	0.216	0.117	0.317	0.224	0.086	0.333	0.533	0.302	0.526
	Right cheek	0.702	0.149	0.240	0.170	0.144	0.851	0.942	0.846	1.016
	Right tilted	0.194	0.046	0.256	0.181	0.086	0.240	0.450	0.280	0.461
LTE B12	Left cheek	0.241	0.570	0.365	0.259	0.367	0.811	0.606	0.608	0.867
	Left tilted	0.076	0.117	0.317	0.224	0.086	0.193	0.393	0.162	0.386
	Right cheek	0.269	0.149	0.240	0.170	0.144	0.418	0.509	0.413	0.583
	Right tilted	0.078	0.046	0.256	0.181	0.086	0.124	0.334	0.164	0.345
LTE B13	Left cheek	0.504	0.570	0.365	0.259	0.367	1.074	0.869	0.871	1.130
	Left tilted	0.158	0.117	0.317	0.224	0.086	0.275	0.475	0.244	0.468
	Right cheek	0.515	0.149	0.240	0.170	0.144	0.664	0.755	0.659	0.829
	Right tilted	0.138	0.046	0.256	0.181	0.086	0.184	0.394	0.224	0.405
LTE B26	Left cheek	0.701	0.570	0.365	0.259	0.367	1.271	1.066	1.068	1.327
	Left tilted	0.178	0.117	0.317	0.224	0.086	0.295	0.495	0.264	0.488
	Right cheek	0.665	0.149	0.240	0.170	0.144	0.814	0.905	0.809	0.979
	Right tilted	0.201	0.046	0.256	0.181	0.086	0.247	0.457	0.287	0.468
N12	Left cheek	0.289	0.570	0.365	0.259	0.367	0.859	0.654	0.656	0.915
	Left tilted	0.101	0.117	0.317	0.224	0.086	0.218	0.418	0.187	0.411
	Right cheek	0.282	0.149	0.240	0.170	0.144	0.431	0.522	0.426	0.596
	Right tilted	0.078	0.046	0.256	0.181	0.086	0.124	0.334	0.164	0.345
N26	Left cheek	0.730	0.570	0.365	0.259	0.367	1.300	1.095	1.097	1.356
	Left tilted	0.265	0.117	0.317	0.224	0.086	0.382	0.582	0.351	0.575
	Right cheek	1.014	0.149	0.240	0.170	0.144	1.163	1.254	1.158	1.328
	Right tilted	0.250	0.046	0.256	0.181	0.086	0.296	0.506	0.336	0.517



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 131 of 148

Test position		SARmax (W/kg)					Summed SAR			
		Main Ant1	WiFi 2.4G Ant8	WiFi 5G Ant8 with WiFi 5G+WWAN	WiFi 5G Ant8 with WiFi 5G+WWAN+BT	BT				
		1	2	3		4	1+2	1+3	1+4	1+3+4
GSM850	Left cheek	0.833	0.570	0.365	0.259	0.367	1.403	1.198	1.200	1.459
	Left tilted	0.199	0.117	0.317	0.224	0.086	0.316	0.516	0.285	0.509
	Right cheek	0.720	0.149	0.240	0.170	0.144	0.869	0.960	0.864	1.034
	Right tilted	0.229	0.046	0.256	0.181	0.086	0.275	0.485	0.315	0.496
WCDMA B5	Left cheek	0.735	0.570	0.365	0.259	0.367	1.305	1.100	1.102	1.361
	Left tilted	0.197	0.117	0.317	0.224	0.086	0.314	0.514	0.283	0.507
	Right cheek	0.694	0.149	0.240	0.170	0.144	0.843	0.934	0.838	1.008
	Right tilted	0.207	0.046	0.256	0.181	0.086	0.253	0.463	0.293	0.474
LTE B12	Left cheek	0.263	0.570	0.365	0.259	0.367	0.833	0.628	0.630	0.889
	Left tilted	0.076	0.117	0.317	0.224	0.086	0.193	0.393	0.162	0.386
	Right cheek	0.271	0.149	0.240	0.170	0.144	0.420	0.511	0.415	0.585
	Right tilted	0.070	0.046	0.256	0.181	0.086	0.116	0.326	0.156	0.337
LTE B13	Left cheek	0.509	0.570	0.365	0.259	0.367	1.079	0.874	0.876	1.135
	Left tilted	0.144	0.117	0.317	0.224	0.086	0.261	0.461	0.230	0.454
	Right cheek	0.533	0.149	0.240	0.170	0.144	0.682	0.773	0.677	0.847
	Right tilted	0.149	0.046	0.256	0.181	0.086	0.195	0.405	0.235	0.416
LTE B26	Left cheek	0.689	0.570	0.365	0.259	0.367	1.259	1.054	1.056	1.315
	Left tilted	0.174	0.117	0.317	0.224	0.086	0.291	0.491	0.260	0.484
	Right cheek	0.630	0.149	0.240	0.170	0.144	0.779	0.870	0.774	0.944
	Right tilted	0.191	0.046	0.256	0.181	0.086	0.237	0.447	0.277	0.458
N12	Left cheek	0.408	0.570	0.365	0.259	0.367	0.978	0.773	0.775	1.034
	Left tilted	0.101	0.117	0.317	0.224	0.086	0.218	0.418	0.187	0.411
	Right cheek	0.452	0.149	0.240	0.170	0.144	0.601	0.692	0.596	0.766
	Right tilted	0.100	0.046	0.256	0.181	0.086	0.146	0.356	0.186	0.367
N26	Left cheek	0.946	0.570	0.365	0.259	0.367	1.516	1.311	1.313	1.572
	Left tilted	0.190	0.117	0.317	0.224	0.086	0.307	0.507	0.276	0.500
	Right cheek	0.952	0.149	0.240	0.170	0.144	1.101	1.192	1.096	1.266
	Right tilted	0.215	0.046	0.256	0.181	0.086	0.261	0.471	0.301	0.482

Test position		SARmax (W/kg)					Summed SAR			
		Main Ant3	WiFi 2.4G Ant8	WiFi 5G Ant8 with WiFi 5G+WWAN	WiFi 5G Ant8 with WiFi 5G+WWAN+BT	BT				
		1	2	3		4	1+2	1+3	1+4	1+3+4
GSM1900	Left cheek	0.505	0.570	0.365	0.259	0.367	1.075	0.870	0.872	1.131
	Left tilted	0.543	0.117	0.317	0.224	0.086	0.660	0.860	0.629	0.853
	Right cheek	0.849	0.149	0.240	0.170	0.144	0.998	1.089	0.993	1.163
	Right tilted	0.782	0.046	0.256	0.181	0.086	0.828	1.038	0.868	1.049
WCDMA B2	Left cheek	0.494	0.570	0.365	0.259	0.367	1.064	0.859	0.861	1.120
	Left tilted	0.531	0.117	0.317	0.224	0.086	0.648	0.848	0.617	0.841
	Right cheek	0.798	0.149	0.240	0.170	0.144	0.947	1.038	0.942	1.112
	Right tilted	0.891	0.046	0.256	0.181	0.086	0.937	1.147	0.977	1.158
WCDMA B4	Left cheek	0.419	0.570	0.365	0.259	0.367	0.989	0.784	0.786	1.045
	Left tilted	0.437	0.117	0.317	0.224	0.086	0.554	0.754	0.523	0.747
	Right cheek	0.689	0.149	0.240	0.170	0.144	0.838	0.929	0.833	1.003



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 132 of 148

	Right tilted	0.612	0.046	0.256	0.181	0.086	0.658	0.868	0.698	0.879
LTE B2	Left cheek	0.483	0.570	0.365	0.259	0.367	1.053	0.848	0.850	1.109
	Left tilted	0.552	0.117	0.317	0.224	0.086	0.669	0.869	0.638	0.862
	Right cheek	0.940	0.149	0.240	0.170	0.144	1.089	1.180	1.084	1.254
	Right tilted	0.980	0.046	0.256	0.181	0.086	1.026	1.236	1.066	1.247
LTE B7	Left cheek	0.578	0.570	0.365	0.259	0.367	1.148	0.943	0.945	1.204
	Left tilted	0.653	0.117	0.317	0.224	0.086	0.770	0.970	0.739	0.963
	Right cheek	0.852	0.149	0.240	0.170	0.144	1.001	1.092	0.996	1.166
	Right tilted	0.783	0.046	0.256	0.181	0.086	0.829	1.039	0.869	1.050
LTE B41	Left cheek	0.547	0.570	0.365	0.259	0.367	1.117	0.912	0.914	1.173
	Left tilted	0.761	0.117	0.317	0.224	0.086	0.878	1.078	0.847	1.071
	Right cheek	0.784	0.149	0.240	0.170	0.144	0.933	1.024	0.928	1.098
	Right tilted	0.964	0.046	0.256	0.181	0.086	1.010	1.220	1.050	1.231
LTE B66	Left cheek	0.392	0.570	0.365	0.259	0.367	0.962	0.757	0.759	1.018
	Left tilted	0.462	0.117	0.317	0.224	0.086	0.579	0.779	0.548	0.772
	Right cheek	0.776	0.149	0.240	0.170	0.144	0.925	1.016	0.920	1.090
	Right tilted	0.760	0.046	0.256	0.181	0.086	0.806	1.016	0.846	1.027
N2	Left cheek	0.500	0.570	0.365	0.259	0.367	1.070	0.865	0.867	1.126
	Left tilted	0.566	0.117	0.317	0.224	0.086	0.683	0.883	0.652	0.876
	Right cheek	0.961	0.149	0.240	0.170	0.144	1.110	1.201	1.105	1.275
	Right tilted	1.046	0.046	0.256	0.181	0.086	1.092	1.302	1.132	1.313
N7	Left cheek	0.565	0.570	0.365	0.259	0.367	1.135	0.930	0.932	1.191
	Left tilted	0.630	0.117	0.317	0.224	0.086	0.747	0.947	0.716	0.940
	Right cheek	0.894	0.149	0.240	0.170	0.144	1.043	1.134	1.038	1.208
	Right tilted	1.057	0.046	0.256	0.181	0.086	1.103	1.313	1.143	1.324
N41	Left cheek	0.532	0.570	0.365	0.259	0.367	1.102	0.897	0.899	1.158
	Left tilted	0.593	0.117	0.317	0.224	0.086	0.710	0.910	0.679	0.903
	Right cheek	0.857	0.149	0.240	0.170	0.144	1.006	1.097	1.001	1.171
	Right tilted	0.989	0.046	0.256	0.181	0.086	1.035	1.245	1.075	1.256
N66	Left cheek	0.439	0.570	0.365	0.259	0.367	1.009	0.804	0.806	1.065
	Left tilted	0.513	0.117	0.317	0.224	0.086	0.630	0.830	0.599	0.823
	Right cheek	0.868	0.149	0.240	0.170	0.144	1.017	1.108	1.012	1.182
	Right tilted	0.732	0.046	0.256	0.181	0.086	0.778	0.988	0.818	0.999

Test position		SARmax (W/kg)					Summed SAR			
		Main Ant4	WiFi 2.4G Ant8	WiFi 5G Ant8 with WiFi 5G+WWAN	WiFi 5G Ant8 with WiFi 5G+WWAN+BT	BT				
		1	2	3		4	1+2	1+3	1+4	1+3+4
GSM1900	Left cheek	0.087	0.570	0.365	0.259	0.367	0.657	0.452	0.454	0.713
	Left tilted	0.061	0.117	0.317	0.224	0.086	0.178	0.378	0.147	0.371
	Right cheek	0.075	0.149	0.240	0.170	0.144	0.224	0.315	0.219	0.389
	Right tilted	0.063	0.046	0.256	0.181	0.086	0.109	0.319	0.149	0.330
WCDMA B2	Left cheek	0.167	0.570	0.365	0.259	0.367	0.737	0.532	0.534	0.793
	Left tilted	0.137	0.117	0.317	0.224	0.086	0.254	0.454	0.223	0.447
	Right cheek	0.162	0.149	0.240	0.170	0.144	0.311	0.402	0.306	0.476
	Right tilted	0.139	0.046	0.256	0.181	0.086	0.185	0.395	0.225	0.406
WCDMA B4	Left cheek	0.114	0.570	0.365	0.259	0.367	0.684	0.479	0.481	0.740
	Left tilted	0.083	0.117	0.317	0.224	0.086	0.200	0.400	0.169	0.393
	Right cheek	0.134	0.149	0.240	0.170	0.144	0.283	0.374	0.278	0.448



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 133 of 148

	Right tilted	0.059	0.046	0.256	0.181	0.086	0.105	0.315	0.145	0.326
LTE B2	Left cheek	0.109	0.570	0.365	0.259	0.367	0.679	0.474	0.476	0.735
	Left tilted	0.085	0.117	0.317	0.224	0.086	0.202	0.402	0.171	0.395
	Right cheek	0.146	0.149	0.240	0.170	0.144	0.295	0.386	0.290	0.460
	Right tilted	0.088	0.046	0.256	0.181	0.086	0.134	0.344	0.174	0.355
LTE B7	Left cheek	0.232	0.570	0.365	0.259	0.367	0.802	0.597	0.599	0.858
	Left tilted	0.089	0.117	0.317	0.224	0.086	0.206	0.406	0.175	0.399
	Right cheek	0.122	0.149	0.240	0.170	0.144	0.271	0.362	0.266	0.436
	Right tilted	0.155	0.046	0.256	0.181	0.086	0.201	0.411	0.241	0.422
LTE B41	Left cheek	0.132	0.570	0.365	0.259	0.367	0.702	0.497	0.499	0.758
	Left tilted	0.012	0.117	0.317	0.224	0.086	0.129	0.329	0.098	0.322
	Right cheek	0.071	0.149	0.240	0.170	0.144	0.220	0.311	0.215	0.385
	Right tilted	0.073	0.046	0.256	0.181	0.086	0.119	0.329	0.159	0.340
LTE B66	Left cheek	0.114	0.570	0.365	0.259	0.367	0.684	0.479	0.481	0.740
	Left tilted	0.079	0.117	0.317	0.224	0.086	0.196	0.396	0.165	0.389
	Right cheek	0.117	0.149	0.240	0.170	0.144	0.266	0.357	0.261	0.431
	Right tilted	0.072	0.046	0.256	0.181	0.086	0.118	0.328	0.158	0.339
N2	Left cheek	0.152	0.570	0.365	0.259	0.367	0.722	0.517	0.519	0.778
	Left tilted	0.102	0.117	0.317	0.224	0.086	0.219	0.419	0.188	0.412
	Right cheek	0.132	0.149	0.240	0.170	0.144	0.281	0.372	0.276	0.446
	Right tilted	0.115	0.046	0.256	0.181	0.086	0.161	0.371	0.201	0.382
N7	Left cheek	0.260	0.570	0.365	0.259	0.367	0.830	0.625	0.627	0.886
	Left tilted	0.091	0.117	0.317	0.224	0.086	0.208	0.408	0.177	0.401
	Right cheek	0.147	0.149	0.240	0.170	0.144	0.296	0.387	0.291	0.461
	Right tilted	0.151	0.046	0.256	0.181	0.086	0.197	0.407	0.237	0.418
N41	Left cheek	0.366	0.570	0.365	0.259	0.367	0.936	0.731	0.733	0.992
	Left tilted	0.127	0.117	0.317	0.224	0.086	0.244	0.444	0.213	0.437
	Right cheek	0.213	0.149	0.240	0.170	0.144	0.362	0.453	0.357	0.527
	Right tilted	0.200	0.046	0.256	0.181	0.086	0.246	0.456	0.286	0.467
N66	Left cheek	0.179	0.570	0.365	0.259	0.367	0.749	0.544	0.546	0.805
	Left tilted	0.063	0.117	0.317	0.224	0.086	0.180	0.380	0.149	0.373
	Right cheek	0.108	0.149	0.240	0.170	0.144	0.257	0.348	0.252	0.422
	Right tilted	0.098	0.046	0.256	0.181	0.086	0.144	0.354	0.184	0.365

Test position		SARmax (W/kg)					Summed SAR			
		Main Ant5	WiFi 2.4G Ant8	WiFi 5G Ant8 with WiFi 5G+WWAN	WiFi 5G Ant8 with WiFi 5G+WWAN+BT	BT				
		1	2	3	4		1+2	1+3	1+4	1+3+4
LTE B2	Left cheek	0.639	0.570	0.365	0.259	0.367	1.209	1.004	1.006	1.265
	Left tilted	0.406	0.117	0.317	0.224	0.086	0.523	0.723	0.492	0.716
	Right cheek	0.144	0.149	0.240	0.170	0.144	0.293	0.384	0.288	0.458
	Right tilted	0.210	0.046	0.256	0.181	0.086	0.256	0.466	0.296	0.477
LTE B7	Left cheek	0.928	0.570	0.365	0.259	0.367	1.498	1.293	1.295	1.554
	Left tilted	0.688	0.117	0.317	0.224	0.086	0.805	1.005	0.774	0.998
	Right cheek	0.368	0.149	0.240	0.170	0.144	0.517	0.608	0.512	0.682
	Right tilted	0.411	0.046	0.256	0.181	0.086	0.457	0.667	0.497	0.678
LTE B41	Left cheek	0.772	0.570	0.365	0.259	0.367	1.342	1.137	1.139	1.398
	Left tilted	0.745	0.117	0.317	0.224	0.086	0.862	1.062	0.831	1.055
	Right cheek	0.285	0.149	0.240	0.170	0.144	0.434	0.525	0.429	0.599
	Right tilted	0.350	0.046	0.256	0.181	0.086	0.396	0.606	0.436	0.617



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 134 of 148

LTE B66	Left cheek	0.756	0.570	0.365	0.259	0.367	1.326	1.121	1.123	1.382
	Left tilted	0.503	0.117	0.317	0.224	0.086	0.620	0.820	0.589	0.813
	Right cheek	0.238	0.149	0.240	0.170	0.144	0.387	0.478	0.382	0.552
	Right tilted	0.295	0.046	0.256	0.181	0.086	0.341	0.551	0.381	0.562
N7	Left cheek	0.951	0.570	0.365	0.259	0.367	1.521	1.316	1.318	1.577
	Left tilted	0.780	0.117	0.317	0.224	0.086	0.897	1.097	0.866	1.090
	Right cheek	0.439	0.149	0.240	0.170	0.144	0.588	0.679	0.583	0.753
	Right tilted	0.468	0.046	0.256	0.181	0.086	0.514	0.724	0.554	0.735
N41	Left cheek	0.956	0.570	0.365	0.259	0.367	1.526	1.321	1.323	1.582
	Left tilted	0.594	0.117	0.317	0.224	0.086	0.711	0.911	0.680	0.904
	Right cheek	0.361	0.149	0.240	0.170	0.144	0.510	0.601	0.505	0.675
	Right tilted	0.386	0.046	0.256	0.181	0.086	0.432	0.642	0.472	0.653
N66	Left cheek	0.788	0.570	0.365	0.259	0.367	1.358	1.153	1.155	1.414
	Left tilted	0.591	0.117	0.317	0.224	0.086	0.708	0.908	0.677	0.901
	Right cheek	0.236	0.149	0.240	0.170	0.144	0.385	0.476	0.380	0.550
	Right tilted	0.308	0.046	0.256	0.181	0.086	0.354	0.564	0.394	0.575
N77	Left cheek	0.739	0.570	0.365	0.259	0.367	1.309	1.104	1.106	1.365
	Left tilted	0.752	0.117	0.317	0.224	0.086	0.869	1.069	0.838	1.062
	Right cheek	0.338	0.149	0.240	0.170	0.144	0.487	0.578	0.482	0.652
	Right tilted	0.404	0.046	0.256	0.181	0.086	0.450	0.660	0.490	0.671

Test position		SARmax (W/kg)					Summed SAR			
		Main Ant6	WiFi 2.4G Ant8	WiFi 5G Ant8 with WiFi 5G+WWAN	WiFi 5G Ant8 with WiFi 5G+WWAN+BT	BT				
		1	2	3		4	1+2	1+3	1+4	1+3+4
N77	Left cheek	0.075	0.570	0.365	0.259	0.367	0.645	0.440	0.442	0.701
	Left tilted	0.053	0.117	0.317	0.224	0.086	0.170	0.370	0.139	0.363
	Right cheek	0.322	0.149	0.240	0.170	0.144	0.471	0.562	0.466	0.636
	Right tilted	0.090	0.046	0.256	0.181	0.086	0.136	0.346	0.176	0.357

Test position		SARmax (W/kg)					Summed SAR			
		Main Ant7	WiFi 2.4G Ant8	WiFi 5G Ant8 with WiFi 5G+WWAN	WiFi 5G Ant8 with WiFi 5G+WWAN+BT	BT				
		1	2	3		4	1+2	1+3	1+4	1+3+4
N77	Left cheek	0.916	0.570	0.365	0.259	0.367	1.486	1.281	1.283	1.542
	Left tilted	0.921	0.117	0.317	0.224	0.086	1.038	1.238	1.007	1.231
	Right cheek	0.427	0.149	0.240	0.170	0.144	0.576	0.667	0.571	0.741
	Right tilted	0.688	0.046	0.256	0.181	0.086	0.734	0.944	0.774	0.955

Test position		SARmax (W/kg)					Summed SAR			
		Main Ant10	WiFi 2.4G Ant8	WiFi 5G Ant8 with WiFi 5G+WWAN	WiFi 5G Ant8 with WiFi 5G+WWAN+BT	BT				
		1	2	3		4	1+2	1+3	1+4	1+3+4
N77	Left cheek	0.272	0.570	0.365	0.259	0.367	0.842	0.637	0.639	0.898
	Left tilted	0.256	0.117	0.317	0.224	0.086	0.373	0.573	0.342	0.566
	Right cheek	1.107	0.149	0.240	0.170	0.144	1.256	1.347	1.251	1.421
	Right tilted	0.824	0.046	0.256	0.181	0.086	0.870	1.080	0.910	1.091



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 135 of 148

Body_Worn:

Test position		SARmax (W/kg)		Summed SAR
		WiFi 5G Ant8	BT	
		1	2	1+2
WLAN	Front side	0.257	0.110	0.367
	Back side	0.337	0.172	0.509

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant0	WiFi 2.4G Ant8	WiFi 5G Ant8	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Front side	0.309	0.159	0.257	0.110	0.468	0.566	0.419	0.676
	Back side	0.394	0.287	0.337	0.172	0.681	0.731	0.566	0.903
WCDMA B5	Front side	0.207	0.159	0.257	0.110	0.366	0.464	0.317	0.574
	Back side	0.257	0.287	0.337	0.172	0.544	0.594	0.429	0.766
LTE B12	Front side	0.120	0.159	0.257	0.110	0.279	0.377	0.230	0.487
	Back side	0.172	0.287	0.337	0.172	0.459	0.509	0.344	0.681
LTE B13	Front side	0.201	0.159	0.257	0.110	0.360	0.458	0.311	0.568
	Back side	0.303	0.287	0.337	0.172	0.590	0.640	0.475	0.812
LTE B26	Front side	0.253	0.159	0.257	0.110	0.412	0.510	0.363	0.620
	Back side	0.313	0.287	0.337	0.172	0.600	0.650	0.485	0.822
N12	Front side	0.119	0.159	0.257	0.110	0.278	0.376	0.229	0.486
	Back side	0.174	0.287	0.337	0.172	0.461	0.511	0.346	0.683
N26	Front side	0.321	0.159	0.257	0.110	0.480	0.578	0.431	0.688
	Back side	0.545	0.287	0.337	0.172	0.832	0.882	0.717	1.054

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant1	WiFi 2.4G Ant8	WiFi 5G Ant8	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM850	Front side	0.358	0.159	0.257	0.110	0.517	0.615	0.468	0.725
	Back side	0.508	0.287	0.337	0.172	0.795	0.845	0.680	1.017
WCDMA B5	Front side	0.217	0.159	0.257	0.110	0.376	0.474	0.327	0.584
	Back side	0.386	0.287	0.337	0.172	0.673	0.723	0.558	0.895
LTE B12	Front side	0.137	0.159	0.257	0.110	0.296	0.394	0.247	0.504
	Back side	0.175	0.287	0.337	0.172	0.462	0.512	0.347	0.684
LTE B13	Front side	0.181	0.159	0.257	0.110	0.340	0.438	0.291	0.548
	Back side	0.315	0.287	0.337	0.172	0.602	0.652	0.487	0.824
LTE B26	Front side	0.228	0.159	0.257	0.110	0.387	0.485	0.338	0.595
	Back side	0.374	0.287	0.337	0.172	0.661	0.711	0.546	0.883
N12	Front side	0.160	0.159	0.257	0.110	0.319	0.417	0.270	0.527
	Back side	0.262	0.287	0.337	0.172	0.549	0.599	0.434	0.771
N26	Front side	0.286	0.159	0.257	0.110	0.445	0.543	0.396	0.653
	Back side	0.383	0.287	0.337	0.172	0.670	0.720	0.555	0.892



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 136 of 148

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant3	WiFi 2.4G Ant8	WiFi 5G Ant8	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM1900	Front side	0.136	0.159	0.257	0.110	0.295	0.393	0.246	0.503
	Back side	0.358	0.287	0.337	0.172	0.645	0.695	0.530	0.867
WCDMA B2	Front side	0.147	0.159	0.257	0.110	0.306	0.404	0.257	0.514
	Back side	0.183	0.287	0.337	0.172	0.470	0.520	0.355	0.692
WCDMA B4	Front side	0.188	0.159	0.257	0.110	0.347	0.445	0.298	0.555
	Back side	0.254	0.287	0.337	0.172	0.541	0.591	0.426	0.763
LTE B2	Front side	0.135	0.159	0.257	0.110	0.294	0.392	0.245	0.502
	Back side	0.209	0.287	0.337	0.172	0.496	0.546	0.381	0.718
LTE B7	Front side	0.193	0.159	0.257	0.110	0.352	0.450	0.303	0.560
	Back side	0.324	0.287	0.337	0.172	0.611	0.661	0.496	0.833
LTE B41	Front side	0.339	0.159	0.257	0.110	0.498	0.596	0.449	0.706
	Back side	0.540	0.287	0.337	0.172	0.827	0.877	0.712	1.049
LTE B66	Front side	0.189	0.159	0.257	0.110	0.348	0.446	0.299	0.556
	Back side	0.267	0.287	0.337	0.172	0.554	0.604	0.439	0.776
N2	Front side	0.118	0.159	0.257	0.110	0.277	0.375	0.228	0.485
	Back side	0.195	0.287	0.337	0.172	0.482	0.532	0.367	0.704
N7	Front side	0.195	0.159	0.257	0.110	0.354	0.452	0.305	0.562
	Back side	0.244	0.287	0.337	0.172	0.531	0.581	0.416	0.753
N41	Front side	0.239	0.159	0.257	0.110	0.398	0.496	0.349	0.606
	Back side	0.386	0.287	0.337	0.172	0.673	0.723	0.558	0.895
N66	Front side	0.206	0.159	0.257	0.110	0.365	0.463	0.316	0.573
	Back side	0.246	0.287	0.337	0.172	0.533	0.583	0.418	0.755

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant4	WiFi 2.4G Ant8	WiFi 5G Ant8	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
GSM1900	Front side	0.120	0.159	0.257	0.110	0.279	0.377	0.230	0.487
	Back side	0.140	0.287	0.337	0.172	0.427	0.477	0.312	0.649
WCDMA B2	Front side	0.231	0.159	0.257	0.110	0.390	0.488	0.341	0.598
	Back side	0.276	0.287	0.337	0.172	0.563	0.613	0.448	0.785
WCDMA B4	Front side	0.163	0.159	0.257	0.110	0.322	0.420	0.273	0.530
	Back side	0.193	0.287	0.337	0.172	0.480	0.530	0.365	0.702
LTE B2	Front side	0.237	0.159	0.257	0.110	0.396	0.494	0.347	0.604
	Back side	0.282	0.287	0.337	0.172	0.569	0.619	0.454	0.791
LTE B7	Front side	0.204	0.159	0.257	0.110	0.363	0.461	0.314	0.571
	Back side	0.243	0.287	0.337	0.172	0.530	0.580	0.415	0.752
LTE B41	Front side	0.162	0.159	0.257	0.110	0.321	0.419	0.272	0.529
	Back side	0.205	0.287	0.337	0.172	0.492	0.542	0.377	0.714
LTE B66	Front side	0.185	0.159	0.257	0.110	0.344	0.442	0.295	0.552
	Back side	0.212	0.287	0.337	0.172	0.499	0.549	0.384	0.721
N2	Front side	0.213	0.159	0.257	0.110	0.372	0.470	0.323	0.580
	Back side	0.394	0.287	0.337	0.172	0.681	0.731	0.566	0.903
N7	Front side	0.245	0.159	0.257	0.110	0.404	0.502	0.355	0.612
	Back side	0.249	0.287	0.337	0.172	0.536	0.586	0.421	0.758



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 137 of 148

N41	Front side	0.398	0.159	0.257	0.110	0.557	0.655	0.508	0.765
	Back side	0.412	0.287	0.337	0.172	0.699	0.749	0.584	0.921
N66	Front side	0.163	0.159	0.257	0.110	0.322	0.420	0.273	0.530
	Back side	0.199	0.287	0.337	0.172	0.486	0.536	0.371	0.708

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant5	WiFi 2.4G Ant8	WiFi 5G Ant8	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
LTE B2	Front side	0.096	0.159	0.257	0.110	0.255	0.353	0.206	0.463
	Back side	0.103	0.287	0.337	0.172	0.390	0.440	0.275	0.612
LTE B7	Front side	0.135	0.159	0.257	0.110	0.294	0.392	0.245	0.502
	Back side	0.134	0.287	0.337	0.172	0.421	0.471	0.306	0.643
LTE B41	Front side	0.079	0.159	0.257	0.110	0.238	0.336	0.189	0.446
	Back side	0.073	0.287	0.337	0.172	0.360	0.410	0.245	0.582
LTE B66	Front side	0.107	0.159	0.257	0.110	0.266	0.364	0.217	0.474
	Back side	0.125	0.287	0.337	0.172	0.412	0.462	0.297	0.634
N7	Front side	0.163	0.159	0.257	0.110	0.322	0.420	0.273	0.530
	Back side	0.189	0.287	0.337	0.172	0.476	0.526	0.361	0.698
N41	Front side	0.239	0.159	0.257	0.110	0.398	0.496	0.349	0.606
	Back side	0.209	0.287	0.337	0.172	0.496	0.546	0.381	0.718
N66	Front side	0.070	0.159	0.257	0.110	0.229	0.327	0.180	0.437
	Back side	0.109	0.287	0.337	0.172	0.396	0.446	0.281	0.618
N77	Front side	0.285	0.159	0.257	0.110	0.444	0.542	0.395	0.652
	Back side	0.258	0.287	0.337	0.172	0.545	0.595	0.430	0.767

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant6	WiFi 2.4G Ant8	WiFi 5G Ant8	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
N77	Front side	0.070	0.159	0.257	0.110	0.229	0.327	0.180	0.437
	Back side	0.084	0.287	0.337	0.172	0.371	0.421	0.256	0.593

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant7	WiFi 2.4G Ant8	WiFi 5G Ant8	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
N77	Front side	0.242	0.159	0.257	0.110	0.401	0.499	0.352	0.609
	Back side	0.360	0.287	0.337	0.172	0.647	0.697	0.532	0.869

Test position		SARmax (W/kg)				Summed SAR			
		Main Ant10	WiFi 2.4G Ant8	WiFi 5G Ant8	BT				
		1	2	3	4	1+2	1+3	1+4	1+3+4
N77	Front side	0.140	0.159	0.257	0.110	0.299	0.397	0.250	0.507
	Back side	0.250	0.287	0.337	0.172	0.537	0.587	0.422	0.759



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 138 of 148

Hotspot:

Test position		SARmax (W/kg)		Summed SAR
		WiFi 5G Ant8	BT	
		1	2	
WLAN	Front side	0.325	0.224	0.549
	Back side	0.479	0.374	0.853
	Left side	0.000	0.000	0.000
	Right side	0.731	0.383	1.114
	Top side	0.298	0.091	0.389
	Bottom side	0.000	0.000	0.000

Test position		SARmax (W/kg)					Summed SAR			
		Main Ant0	WiFi 2.4G Ant8	WiFi 5G Ant8 with WiFi 5G+WWAN	WiFi 5G Ant8 with WiFi 5G+WWAN+BT	BT				
		1	2	3	4					
GSM850	Front side	0.399	0.179	0.258	0.115	0.224	0.578	0.657	0.623	0.738
	Back side	0.529	0.196	0.381	0.170	0.374	0.725	0.910	0.903	1.073
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.939	0.411	0.581	0.259	0.383	1.350	1.520	1.322	1.581
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.093	0.000	0.000	0.000	0.000	0.093	0.093	0.093	0.093
WCDMA B5	Front side	0.234	0.179	0.258	0.115	0.224	0.413	0.492	0.458	0.573
	Back side	0.306	0.196	0.381	0.170	0.374	0.502	0.687	0.680	0.850
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.490	0.411	0.581	0.259	0.383	0.901	1.071	0.873	1.132
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.033	0.000	0.000	0.000	0.000	0.033	0.033	0.033	0.033
LTE B12	Front side	0.155	0.179	0.258	0.115	0.224	0.334	0.413	0.379	0.494
	Back side	0.291	0.196	0.381	0.170	0.374	0.487	0.672	0.665	0.835
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.504	0.411	0.581	0.259	0.383	0.915	1.085	0.887	1.146
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.031	0.000	0.000	0.000	0.000	0.031	0.031	0.031	0.031
LTE B13	Front side	0.214	0.179	0.258	0.115	0.224	0.393	0.472	0.438	0.553
	Back side	0.327	0.196	0.381	0.170	0.374	0.523	0.708	0.701	0.871
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.496	0.411	0.581	0.259	0.383	0.907	1.077	0.879	1.138
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.017	0.000	0.000	0.000	0.000	0.017	0.017	0.017	0.017
LTE B26	Front side	0.284	0.179	0.258	0.115	0.224	0.463	0.542	0.508	0.623
	Back side	0.436	0.196	0.381	0.170	0.374	0.632	0.817	0.810	0.980
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.670	0.411	0.581	0.259	0.383	1.081	1.251	1.053	1.312
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.027	0.000	0.000	0.000	0.000	0.027	0.027	0.027	0.027
N12	Front side	0.213	0.179	0.258	0.115	0.224	0.392	0.471	0.437	0.552
	Back side	0.345	0.196	0.381	0.170	0.374	0.541	0.726	0.719	0.889



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 139 of 148

	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.361	0.411	0.581	0.259	0.383	0.772	0.942	0.744	1.003
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.018	0.000	0.000	0.000	0.000	0.018	0.018	0.018	0.018
N26	Front side	0.364	0.179	0.258	0.115	0.224	0.543	0.622	0.588	0.703
	Back side	0.542	0.196	0.381	0.170	0.374	0.738	0.923	0.916	1.086
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.757	0.411	0.581	0.259	0.383	1.168	1.338	1.140	1.399
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.019	0.000	0.000	0.000	0.000	0.019	0.019	0.019	0.019

Test position		SARmax (W/kg)					Summed SAR			
		Main Ant1	WiFi 2.4G Ant8	WiFi 5G Ant8 with WiFi 5G+WWAN	WiFi 5G Ant8 with WiFi 5G+WWAN+BT	BT				
		1	2	3		4	1+2	1+3	1+4	1+3+4
GSM850	Front side	0.376	0.179	0.258	0.115	0.224	0.555	0.634	0.600	0.715
	Back side	0.570	0.196	0.381	0.170	0.374	0.766	0.951	0.944	1.114
	Left side	1.063	0.000	0.000	0.000	0.000	1.063	1.063	1.063	1.063
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.119	0.000	0.000	0.000	0.000	0.119	0.119	0.119	0.119
WCDMA B5	Front side	0.255	0.179	0.258	0.115	0.224	0.434	0.513	0.479	0.594
	Back side	0.315	0.196	0.381	0.170	0.374	0.511	0.696	0.689	0.859
	Left side	0.676	0.000	0.000	0.000	0.000	0.676	0.676	0.676	0.676
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.029	0.000	0.000	0.000	0.000	0.029	0.029	0.029	0.029
LTE B12	Front side	0.174	0.179	0.258	0.115	0.224	0.353	0.432	0.398	0.513
	Back side	0.270	0.196	0.381	0.170	0.374	0.466	0.651	0.644	0.814
	Left side	0.510	0.000	0.000	0.000	0.000	0.510	0.510	0.510	0.510
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.031	0.000	0.000	0.000	0.000	0.031	0.031	0.031	0.031
LTE B13	Front side	0.226	0.179	0.258	0.115	0.224	0.405	0.484	0.450	0.565
	Back side	0.350	0.196	0.381	0.170	0.374	0.546	0.731	0.724	0.894
	Left side	0.686	0.000	0.000	0.000	0.000	0.686	0.686	0.686	0.686
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.035	0.000	0.000	0.000	0.000	0.035	0.035	0.035	0.035
LTE B26	Front side	0.265	0.179	0.258	0.115	0.224	0.444	0.523	0.489	0.604
	Back side	0.393	0.196	0.381	0.170	0.374	0.589	0.774	0.767	0.937
	Left side	0.564	0.000	0.000	0.000	0.000	0.564	0.564	0.564	0.564
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.020	0.000	0.000	0.000	0.000	0.020	0.020	0.020	0.020
N12	Front side	0.216	0.179	0.258	0.115	0.224	0.395	0.474	0.440	0.555
	Back side	0.320	0.196	0.381	0.170	0.374	0.516	0.701	0.694	0.864
	Left side	0.686	0.000	0.000	0.000	0.000	0.686	0.686	0.686	0.686
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 140 of 148

	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.015	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015
N26	Front side	0.324	0.179	0.258	0.115	0.224	0.503	0.582	0.548	0.663
	Back side	0.479	0.196	0.381	0.170	0.374	0.675	0.860	0.853	1.023
	Left side	0.637	0.000	0.000	0.000	0.000	0.637	0.637	0.637	0.637
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.013	0.000	0.000	0.000	0.000	0.013	0.013	0.013	0.013

Test position		SARmax (W/kg)					Summed SAR			
		Main Ant3	WiFi 2.4G Ant8	WiFi 5G Ant8 with WiFi 5G+WWAN	WiFi 5G Ant8 with WiFi 5G+WWAN+BT	BT				
		1	2	3		4	1+2	1+3	1+4	1+3+4
GSM1900	Front side	0.199	0.179	0.258	0.115	0.224	0.378	0.457	0.423	0.538
	Back side	0.358	0.196	0.381	0.170	0.374	0.554	0.739	0.732	0.902
	Left side	0.159	0.000	0.000	0.000	0.000	0.159	0.159	0.159	0.159
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.469	0.077	0.237	0.106	0.091	0.546	0.706	0.560	0.666
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B2	Front side	0.169	0.179	0.258	0.115	0.224	0.348	0.427	0.393	0.508
	Back side	0.205	0.196	0.381	0.170	0.374	0.401	0.586	0.579	0.749
	Left side	0.117	0.000	0.000	0.000	0.000	0.117	0.117	0.117	0.117
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.405	0.077	0.237	0.106	0.091	0.482	0.642	0.496	0.602
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WCDMA B4	Front side	0.200	0.179	0.258	0.115	0.224	0.379	0.458	0.424	0.539
	Back side	0.222	0.196	0.381	0.170	0.374	0.418	0.603	0.596	0.766
	Left side	0.109	0.000	0.000	0.000	0.000	0.109	0.109	0.109	0.109
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.331	0.077	0.237	0.106	0.091	0.408	0.568	0.422	0.528
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B2	Front side	0.185	0.179	0.258	0.115	0.224	0.364	0.443	0.409	0.524
	Back side	0.313	0.196	0.381	0.170	0.374	0.509	0.694	0.687	0.857
	Left side	0.129	0.000	0.000	0.000	0.000	0.129	0.129	0.129	0.129
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.424	0.077	0.237	0.106	0.091	0.501	0.661	0.515	0.621
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B7	Front side	0.208	0.179	0.258	0.115	0.224	0.387	0.466	0.432	0.547
	Back side	0.328	0.196	0.381	0.170	0.374	0.524	0.709	0.702	0.872
	Left side	0.124	0.000	0.000	0.000	0.000	0.124	0.124	0.124	0.124
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.449	0.077	0.237	0.106	0.091	0.526	0.686	0.540	0.646
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B41	Front side	0.334	0.179	0.258	0.115	0.224	0.513	0.592	0.558	0.673
	Back side	0.557	0.196	0.381	0.170	0.374	0.753	0.938	0.931	1.101
	Left side	0.168	0.000	0.000	0.000	0.000	0.168	0.168	0.168	0.168
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.698	0.077	0.237	0.106	0.091	0.775	0.935	0.789	0.895
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B66	Front side	0.204	0.179	0.258	0.115	0.224	0.383	0.462	0.428	0.543



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 141 of 148

	Back side	0.321	0.196	0.381	0.170	0.374	0.517	0.702	0.695	0.865
	Left side	0.151	0.000	0.000	0.000	0.000	0.151	0.151	0.151	0.151
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.330	0.077	0.237	0.106	0.091	0.407	0.567	0.421	0.527
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N2	Front side	0.169	0.179	0.258	0.115	0.224	0.348	0.427	0.393	0.508
	Back side	0.297	0.196	0.381	0.170	0.374	0.493	0.678	0.671	0.841
	Left side	0.123	0.000	0.000	0.000	0.000	0.123	0.123	0.123	0.123
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.398	0.077	0.237	0.106	0.091	0.475	0.635	0.489	0.595
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N7	Front side	0.233	0.179	0.258	0.115	0.224	0.412	0.491	0.457	0.572
	Back side	0.393	0.196	0.381	0.170	0.374	0.589	0.774	0.767	0.937
	Left side	0.106	0.000	0.000	0.000	0.000	0.106	0.106	0.106	0.106
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.421	0.077	0.237	0.106	0.091	0.498	0.658	0.512	0.618
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N41	Front side	0.296	0.179	0.258	0.115	0.224	0.475	0.554	0.520	0.635
	Back side	0.482	0.196	0.381	0.170	0.374	0.678	0.863	0.856	1.026
	Left side	0.177	0.000	0.000	0.000	0.000	0.177	0.177	0.177	0.177
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.763	0.077	0.237	0.106	0.091	0.840	1.000	0.854	0.960
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N66	Front side	0.217	0.179	0.258	0.115	0.224	0.396	0.475	0.441	0.556
	Back side	0.325	0.196	0.381	0.170	0.374	0.521	0.706	0.699	0.869
	Left side	0.094	0.000	0.000	0.000	0.000	0.094	0.094	0.094	0.094
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.329	0.077	0.237	0.106	0.091	0.406	0.566	0.420	0.526
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)					Summed SAR			
		Main Ant4	WiFi 2.4G Ant8	WiFi 5G Ant8 with WiFi 5G+WWAN	WiFi 5G Ant8 with WiFi 5G+WWAN+BT	BT				
		1	2	3	4		1+2	1+3	1+4	1+3+4
GSM1900	Front side	0.326	0.179	0.258	0.115	0.224	0.505	0.584	0.550	0.665
	Back side	0.386	0.196	0.381	0.170	0.374	0.582	0.767	0.760	0.930
	Left side	0.126	0.000	0.000	0.000	0.000	0.126	0.126	0.126	0.126
	Right side	0.072	0.411	0.581	0.259	0.383	0.483	0.653	0.455	0.714
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.518	0.000	0.000	0.000	0.000	0.518	0.518	0.518	0.518
WCDMA B2	Front side	0.325	0.179	0.258	0.115	0.224	0.504	0.583	0.549	0.664
	Back side	0.409	0.196	0.381	0.170	0.374	0.605	0.790	0.783	0.953
	Left side	0.116	0.000	0.000	0.000	0.000	0.116	0.116	0.116	0.116
	Right side	0.084	0.411	0.581	0.259	0.383	0.495	0.665	0.467	0.726
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.495	0.000	0.000	0.000	0.000	0.495	0.495	0.495	0.495
WCDMA B4	Front side	0.238	0.179	0.258	0.115	0.224	0.417	0.496	0.462	0.577
	Back side	0.295	0.196	0.381	0.170	0.374	0.491	0.676	0.669	0.839
	Left side	0.079	0.000	0.000	0.000	0.000	0.079	0.079	0.079	0.079
	Right side	0.051	0.411	0.581	0.259	0.383	0.462	0.632	0.434	0.693



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 142 of 148

	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.399	0.000	0.000	0.000	0.000	0.399	0.399	0.399	0.399
LTE B2	Front side	0.311	0.179	0.258	0.115	0.224	0.490	0.569	0.535	0.650
	Back side	0.376	0.196	0.381	0.170	0.374	0.572	0.757	0.750	0.920
	Left side	0.128	0.000	0.000	0.000	0.000	0.128	0.128	0.128	0.128
	Right side	0.079	0.411	0.581	0.259	0.383	0.490	0.660	0.462	0.721
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.478	0.000	0.000	0.000	0.000	0.478	0.478	0.478	0.478
LTE B7	Front side	0.232	0.179	0.258	0.115	0.224	0.411	0.490	0.456	0.571
	Back side	0.314	0.196	0.381	0.170	0.374	0.510	0.695	0.688	0.858
	Left side	0.082	0.000	0.000	0.000	0.000	0.082	0.082	0.082	0.082
	Right side	0.040	0.411	0.581	0.259	0.383	0.451	0.621	0.423	0.682
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.393	0.000	0.000	0.000	0.000	0.393	0.393	0.393	0.393
LTE B41	Front side	0.327	0.179	0.258	0.115	0.224	0.506	0.585	0.551	0.666
	Back side	0.407	0.196	0.381	0.170	0.374	0.603	0.788	0.781	0.951
	Left side	0.111	0.000	0.000	0.000	0.000	0.111	0.111	0.111	0.111
	Right side	0.050	0.411	0.581	0.259	0.383	0.461	0.631	0.433	0.692
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.551	0.000	0.000	0.000	0.000	0.551	0.551	0.551	0.551
LTE B66	Front side	0.233	0.179	0.258	0.115	0.224	0.412	0.491	0.457	0.572
	Back side	0.288	0.196	0.381	0.170	0.374	0.484	0.669	0.662	0.832
	Left side	0.089	0.000	0.000	0.000	0.000	0.089	0.089	0.089	0.089
	Right side	0.036	0.411	0.581	0.259	0.383	0.447	0.617	0.419	0.678
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.371	0.000	0.000	0.000	0.000	0.371	0.371	0.371	0.371
N2	Front side	0.318	0.179	0.258	0.115	0.224	0.497	0.576	0.542	0.657
	Back side	0.361	0.196	0.381	0.170	0.374	0.557	0.742	0.735	0.905
	Left side	0.087	0.000	0.000	0.000	0.000	0.087	0.087	0.087	0.087
	Right side	0.019	0.411	0.581	0.259	0.383	0.430	0.600	0.402	0.661
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.454	0.000	0.000	0.000	0.000	0.454	0.454	0.454	0.454
N7	Front side	0.330	0.179	0.258	0.115	0.224	0.509	0.588	0.554	0.669
	Back side	0.443	0.196	0.381	0.170	0.374	0.639	0.824	0.817	0.987
	Left side	0.150	0.000	0.000	0.000	0.000	0.150	0.150	0.150	0.150
	Right side	0.033	0.411	0.581	0.259	0.383	0.444	0.614	0.416	0.675
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.469	0.000	0.000	0.000	0.000	0.469	0.469	0.469	0.469
N41	Front side	0.512	0.179	0.258	0.115	0.224	0.691	0.770	0.736	0.851
	Back side	0.550	0.196	0.381	0.170	0.374	0.746	0.931	0.924	1.094
	Left side	0.219	0.000	0.000	0.000	0.000	0.219	0.219	0.219	0.219
	Right side	0.054	0.411	0.581	0.259	0.383	0.465	0.635	0.437	0.696
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.696	0.000	0.000	0.000	0.000	0.696	0.696	0.696	0.696
N66	Front side	0.215	0.179	0.258	0.115	0.224	0.394	0.473	0.439	0.554
	Back side	0.270	0.196	0.381	0.170	0.374	0.466	0.651	0.644	0.814
	Left side	0.073	0.000	0.000	0.000	0.000	0.073	0.073	0.073	0.073
	Right side	0.053	0.411	0.581	0.259	0.383	0.464	0.634	0.436	0.695
	Top side	0.000	0.077	0.237	0.106	0.091	0.077	0.237	0.091	0.197
	Bottom side	0.358	0.000	0.000	0.000	0.000	0.358	0.358	0.358	0.358



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 143 of 148

Test position		SARmax (W/kg)					Summed SAR			
		Main Ant5	WiFi 2.4G Ant8	WiFi 5G Ant8 with WiFi 5G+WWAN	WiFi 5G Ant8 with WiFi 5G+WWAN+BT	BT				
		1	2	3		4	1+2	1+3	1+4	1+3+4
LTE B2	Front side	0.121	0.179	0.258	0.115	0.224	0.300	0.379	0.345	0.460
	Back side	0.121	0.196	0.381	0.170	0.374	0.317	0.502	0.495	0.665
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.116	0.411	0.581	0.259	0.383	0.527	0.697	0.499	0.758
	Top side	0.200	0.077	0.237	0.106	0.091	0.277	0.437	0.291	0.397
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B7	Front side	0.191	0.179	0.258	0.115	0.224	0.370	0.449	0.415	0.530
	Back side	0.195	0.196	0.381	0.170	0.374	0.391	0.576	0.569	0.739
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.073	0.411	0.581	0.259	0.383	0.484	0.654	0.456	0.715
	Top side	0.322	0.077	0.237	0.106	0.091	0.399	0.559	0.413	0.519
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B41	Front side	0.167	0.179	0.258	0.115	0.224	0.346	0.425	0.391	0.506
	Back side	0.135	0.196	0.381	0.170	0.374	0.331	0.516	0.509	0.679
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.076	0.411	0.581	0.259	0.383	0.487	0.657	0.459	0.718
	Top side	0.404	0.077	0.237	0.106	0.091	0.481	0.641	0.495	0.601
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B66	Front side	0.093	0.179	0.258	0.115	0.224	0.272	0.351	0.317	0.432
	Back side	0.115	0.196	0.381	0.170	0.374	0.311	0.496	0.489	0.659
	Left side	0.109	0.000	0.000	0.000	0.000	0.109	0.109	0.109	0.109
	Right side	0.108	0.411	0.581	0.259	0.383	0.519	0.689	0.491	0.750
	Top side	0.116	0.077	0.237	0.106	0.091	0.193	0.353	0.207	0.313
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N7	Front side	0.301	0.179	0.258	0.115	0.224	0.480	0.559	0.525	0.640
	Back side	0.432	0.196	0.381	0.170	0.374	0.628	0.813	0.806	0.976
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.134	0.411	0.581	0.259	0.383	0.545	0.715	0.517	0.776
	Top side	0.463	0.077	0.237	0.106	0.091	0.540	0.700	0.554	0.660
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N41	Front side	0.365	0.179	0.258	0.115	0.224	0.544	0.623	0.589	0.704
	Back side	0.319	0.196	0.381	0.170	0.374	0.515	0.700	0.693	0.863
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.211	0.411	0.581	0.259	0.383	0.622	0.792	0.594	0.853
	Top side	0.554	0.077	0.237	0.106	0.091	0.631	0.791	0.645	0.751
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N66	Front side	0.135	0.179	0.258	0.115	0.224	0.314	0.393	0.359	0.474
	Back side	0.174	0.196	0.381	0.170	0.374	0.370	0.555	0.548	0.718
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.126	0.411	0.581	0.259	0.383	0.537	0.707	0.509	0.768
	Top side	0.208	0.077	0.237	0.106	0.091	0.285	0.445	0.299	0.405
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N77	Front side	0.561	0.179	0.258	0.115	0.224	0.740	0.819	0.785	0.900
	Back side	0.395	0.196	0.381	0.170	0.374	0.591	0.776	0.769	0.939
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.312	0.411	0.581	0.259	0.383	0.723	0.893	0.695	0.954



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 144 of 148

	Top side	1.105	0.077	0.237	0.106	0.091	1.182	1.342	1.196	1.302
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)					Summed SAR			
		Main Ant6	WiFi 2.4G Ant8	WiFi 5G Ant8 with WiFi 5G+WWAN	WiFi 5G Ant8 with WiFi 5G+WWAN+BT	BT				
		1	2	3	4		1+2	1+3	1+4	1+3+4
N77	Front side	0.065	0.179	0.258	0.115	0.224	0.244	0.323	0.289	0.404
	Back side	0.121	0.196	0.381	0.170	0.374	0.317	0.502	0.495	0.665
	Left side	0.134	0.000	0.000	0.000	0.000	0.134	0.134	0.134	0.134
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.059	0.077	0.237	0.106	0.091	0.136	0.296	0.150	0.256
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)					Summed SAR			
		Main Ant7	WiFi 2.4G Ant8	WiFi 5G Ant8 with WiFi 5G+WWAN	WiFi 5G Ant8 with WiFi 5G+WWAN+BT	BT				
		1	2	3	4		1+2	1+3	1+4	1+3+4
N77	Front side	0.278	0.179	0.258	0.115	0.224	0.457	0.536	0.502	0.617
	Back side	0.546	0.196	0.381	0.170	0.374	0.742	0.927	0.920	1.090
	Left side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Right side	0.100	0.411	0.581	0.259	0.383	0.511	0.681	0.483	0.742
	Top side	0.670	0.077	0.237	0.106	0.091	0.747	0.907	0.761	0.867
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)					Summed SAR			
		Main Ant10	WiFi 2.4G Ant8	WiFi 5G Ant8 with WiFi 5G+WWAN	WiFi 5G Ant8 with WiFi 5G+WWAN+BT	BT				
		1	2	3	4		1+2	1+3	1+4	1+3+4
N77	Front side	0.155	0.179	0.258	0.115	0.224	0.334	0.413	0.379	0.494
	Back side	0.333	0.196	0.381	0.170	0.374	0.529	0.714	0.707	0.877
	Left side	0.559	0.000	0.000	0.000	0.000	0.559	0.559	0.559	0.559
	Right side	0.000	0.411	0.581	0.259	0.383	0.411	0.581	0.383	0.642
	Top side	0.187	0.077	0.237	0.106	0.091	0.264	0.424	0.278	0.384
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 145 of 148

0mm

Test position		SARmax (W/kg)					
		Main Ant1	WiFi 5G Ant8	NFC			
		1	2	3	1+2	1+3	1+2+3
GSM850	Front side	/	1.231	0.010	1.231	0.010	1.241
	Back side	/	0.920	0.022	0.920	0.022	0.942
	Left side	2.104	/	/	2.104	2.104	2.104
	Right side	/	1.883	/	1.883	/	1.883
	Top side	/	0.468	/	0.468	/	0.468
	Bottom side	/	/	/	/	/	/



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9 Equipment list

Test Platform		SPEAG DASY Professional				
Description		SAR Test System (Frequency range 300MHz-6GHz)				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)				
Hardware Reference						
Equipment		Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-020	NCR	NCR
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-022	NCR	NCR
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-025	NCR	NCR
☒	DAE	SPEAG	DAE4	SZ-WSR-M-081	2024/08/15	2025/08/16
☒	DAE	SPEAG	DAE4	SZ-WSR-M-029	2024/01/03	2025/01/02
☒	DAE	SPEAG	DAE4	SZ-WSR-M-028	2024/04/16	2025/04/15
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-082	2024/09/19	2025/09/18
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-R-002	2023/12/14	2024/12/13
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-069	2024/07/29	2025/07/28
☒	Validation Kits	SPEAG	D750V3	SZ-WSR-M-032	2022/06/06	2025/06/05
☒	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D1750V2	SZ-WSR-M-035	2022/06/17	2025/06/16
☒	Validation Kits	SPEAG	D1900V2	SZ-WSR-M-036	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D2600V2	SZ-WSR-M-040	2022/06/14	2025/06/13
☒	Validation Kits	SPEAG	D3500V2	SZ-WSR-M-041	2022/09/19	2025/09/18
☒	Validation Kits	SPEAG	D3700V2	SZ-WSR-M-042	2022/09/15	2025/09/14
☒	Validation Kits	SPEAG	D3900V2	SZ-WSR-M-043	2022/09/16	2025/09/15
☒	Validation Kits	SPEAG	D5GHzV2	SZ-WSR-M-046	2022/11/01	2025/10/31
☒	Dielectric parameter probes	SPEAG	DAKS-3.5	SZ-WSR-M-053	2024/06/26	2025/06/25
☒	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	SZ-WSR-M-054	2024/06/26	2025/06/25
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-005	2024/01/30	2025/01/29
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-018	2024/05/24	2025/05/23
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-020	2024/08/19	2025/08/18
☒	RF Bi-Directional Coupler	Agilent	86205-60001	SZ-WSR-A-004	NCR	NCR
☒	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2024/01/30	2025/01/29
☒	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR
☒	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR



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SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR241000395910

Page: 147 of 148

☒	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2024/01/30	2025/01/29
☒	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2024/01/30	2025/01/29
☒	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2024/01/30	2025/01/29
☒	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR
☒	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2024/05/30	2025/05/29
☒	Temperature	MingGao	T809	SZ-WSR-M-015	2024/05/30	2025/05/29
☒	Temperature	MingGao	T809	SZ-WSR-M-016	2024/05/30	2025/05/29
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-013	2024/05/28	2025/05/27
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-012	2024/05/28	2025/05/27
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-011	2024/05/28	2025/05/27

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



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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

Appendix E: Conducted RF Output Power

--- End of report ---