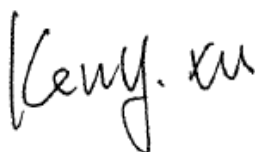


SAR TEST REPORT PART 1

Application No.: SZCR2602000543WM
Applicant: Motorola Mobility LLC
Address of Applicant: 222 W Merchandise Mart Plaza, Chicago, IL 60654 USA
Manufacturer: Motorola Mobility LLC
Address of Manufacturer: 222 W, Merchandise Mart Plaza, Chicago IL 60654 USA
EUT Description: Mobile Cellular Phone
Model No.: XT2625-8(SB) / XT2625-9(Retail) ♣
 ♣ Please refer to section 1.1 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: Motorola
FCC ID: IHDT56AX3
Standards: FCC 47CFR §2.1093
Date of Receipt: 2026-02-03
Date of Test: 2026-02-25 to 2026-03-10
Date of Issue: 2026-03-27

Test Result :	PASS *
----------------------	---------------

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



Keny Xu
EMC Laboratory Manager



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 2 of 157

Revision Record

Version	Description	Date	Remark
01	Original	2026-03-18	/
02	1.Modify the value of D1750V2_Head in the Summary System Check Result. This report is an updated version, replacing the report issued on March 18, 2026.	2026-03-27	/

Authorized for issue
by:

Darren Yuan

Darren Yuan/Project Engineer

Roman Pan

Roman Pan / Reviewer



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.63	1.13	1.13	3.06
GSM1900	0.26	0.96	1.03	3.07
WCDMA Band II	0.25	1.04	0.92	2.96
WCDMA Band IV	0.18	1.11	1.05	2.75
WCDMA Band V	0.35	1.14	1.14	2.08
LTE Band 2	0.22	1.22	0.99	3.17
LTE Band 4	0.31	1.20	1.02	2.90
LTE Band 7	0.43	1.01	1.01	2.91
LTE Band 12(17)	0.21	0.88	0.88	/
LTE Band 26(5)	0.29	1.26	1.26	2.74
LTE Band 38	0.88	0.67	0.47	1.98
LTE Band 41	0.83	1.20	1.20	2.75
LTE Band 42	0.86	0.58	0.43	1.45
NR Band n77(78)	0.86	1.04	0.93	2.11
WI-FI (2.4GHz)	0.82	1.13	0.48	/
WI-FI (5GHz)	1.13	1.13	0.52	2.28
BT	0.17	0.21	0.21	/
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	1.59	1.56	1.17	3.79
SPLSR	/	0.03	0.03	0.09
SPLSR Limited	0.04			0.1

Note: According to TCB workshop (Overlapping LTE Bands): SAR in LTE band 17 is covered by LTE band 12. SAR in LTE band 5 is covered by LTE band 26. SAR in NR Band n78 is covered by NR Band n77. 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.



Contents

1	General Information	7
1.1	General Description of EUT	7
1.2	Test Specification	10
1.3	RF exposure limits	11
1.4	Test Location	12
1.5	Test Engineer	12
1.6	Test Facility	12
2	Laboratory Environment.....	13
3	SAR Measurements System Configuraion.....	14
3.1	The SAR Measurement System.....	14
3.2	Isotropic E-field Probe EX3DV4	16
3.3	Data Acquisition Electronics (DAE)	17
3.4	SAM Twin Phantom	17
3.5	ELI Phantom	18
3.6	Device Holder for Transmitters	19
3.7	Measurement Procedure.....	20
3.7.1	Scanning procedure.....	20
3.7.2	Data storage	22
3.7.3	Data Evaluation by SEMCAD	22
4	SAR measurement variability and uncertainty	24
4.1	SAR measurement variability	24
4.2	SAR measurement uncertainty	24
5	Desciption of Test Position	25
5.1	The Head Test Position.....	25
5.1.1	SAM Phantom Shape	25
5.1.2	EUT constructions	26
5.1.3	Definition of the “check” position.....	27
5.1.4	Definition of the “tilted” position.....	27
5.2	The Body Test Position	29
5.2.1	Body-worn exposure conditions	29
5.2.2	Wireless Router exposure conditions	30
5.3	Extremity exposure conditions	30
5.4	Proximity Sensor Triggering Test.....	39
5.4.1	Proximity sensor triggering distances	39
5.4.2	Proximity sensor coverage.....	73
5.4.3	Device tilt angle influences on proximity sensor triggering.....	73



6	SAR System Verificaion Procedure	74
6.1	Tissue Simulate Liquid	74
6.1.1	Recipes for Tissue Simulate Liquid	74
6.1.2	Measurement for Tissue Simulate Liquid	75
6.2	SAR System Check	76
6.2.1	Justification for Extended SAR Dipole Calibrations	77
6.2.2	Summary System Check Result(s)	78
6.2.3	Detailed System Check Results	78
7	Test Configuration	79
7.1	MediaTek Time-averaged for RF Exposure compliance	79
7.2	Operation Configurations	80
7.2.1	GSM Test Configuration	80
7.2.2	WCDMA Test Configuration	80
7.2.3	WIFI Test Configuration	87
7.2.4	BT Test Configuration	94
7.2.5	LTE Test Configuration	95
7.2.6	NR Band Test Configuration	98
8	Test Result	101
8.1	DUT Antenna Locations (Back View)	101
8.2	Measurement of RF Conducted Power	102
8.2.1	RF Conducted Power reduction specification	102
8.2.2	RF Conducted Power Data	102
8.3	Measurement of SAR Data	103
8.3.1	SAR Result of GSM850	104
8.3.2	SAR Result of GSM1900	106
8.3.3	SAR Result of WCDMA Band II	108
8.3.4	SAR Result of WCDMA Band IV	110
8.3.5	SAR Result of WCDMA Band V	111
8.3.6	SAR Result of LTE Band 2	113
8.3.7	SAR Result of LTE Band 4	116
8.3.8	SAR Result of LTE Band 7	118
8.3.9	SAR Result of LTE Band 12	121
8.3.10	SAR Result of LTE Band 26	122
8.3.11	SAR Result of LTE Band 38	124
8.3.12	SAR Result of LTE Band 41	126



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 6 of 157

8.3.13	SAR Result of LTE Band 42	131
8.3.14	SAR Result of NR Band n77 (3450-3550)	133
8.3.15	SAR Result of NR Band n77 (3700-3980)	138
8.3.16	SAR Result of WiFi 2.4G	143
8.3.17	SAR Result of WiFi 5G	144
8.3.18	SAR Result of BT	147
8.4	Multiple Transmitter Evaluation	148
8.4.1	Simultaneous SAR test evaluation	148
8.4.2	Sub6 antenna groups	148
9	Equipment list	155
10	Calibration certificate	157
11	Photographs	157
Appendix A: Detailed System Check Results		157
Appendix B: Detailed Test Results		157
Appendix C: Calibration certificate		157
Appendix D: Photographs		157
Appendix E: Conducted RF Output Power		157



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1 General Information

1.1 General Description of EUT

Product Name:	Mobile Cellular Phone		
Model No.:	XT2625-8(SB) / XT2625-9(Retail)		
Trade Mark:	Motorola		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	355777680019639, 355777680019647, 355777680015074, 355777680019753, 355777680014994, 355777680022278, 355777680022252, 355777680020652, 355777680020678		
Hardware Version:	DVT2		
Software Version:	sydney_ap_sys_userdebug_16_W3WYA36.52_43dc2-ad9539_intcfg-test-keys_global_US		
Antenna Type:	Fixed Internal Antenna		
Device Operating Configurations:			
Test Mode Configuration:	GSM: GMSK,8PSK; WCDMA: QPSK,16QAM LTE: QPSK,16QAM,64QAM,256QAM 5G NR: DFT-s-OFDM(PI/2 BPSK,QPSK,16QAM,64QAM,256QAM) CP-OFDM(QPSK,16QAM,64QAM,256QAM) WIFI: DSSS,OFDM; BT: GFSK, $\pi/4$ DQPSK,8DPSK NFC: ASK		
Device Class:	B		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	24	HSUPA UE Category:	7
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)	
	GSM850	824~849	
	GSM1900	1850~1910	
	WCDMA Band II	1850~1910	



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 8 of 157

	WCDMA Band IV	1710~1755
	WCDMA Band V	824~849
	LTE Band 2	1850 ~1910
	LTE Band 4	1710~1755
	LTE Band 5	824~849
	LTE Band 7	2500~2570
	LTE Band 12	699~716
	LTE Band 17	704~716
	LTE Band 26	814~849
	LTE Band 38	2570~2620
	LTE Band 41	2496~2690
	LTE Band 42	3450-3550
	NR Band n77	3450~3550
		3700~3980
	NR Band n78	3450~3550
		3700~3800
	WIFI 2.4G	2412~2462
	WIFI 5G	5150~5250
		5250~5350
		5470~5725
		5725~5850
	BT	2402~2480
	NFC	13.56
RF Cable:	☒ Provided by applicant ☐ Provided by the laboratory	
Battery Information#1:	Model:	SS52
	Normal Voltage:	3.92V
	Rated capacity:	5100mAh
	Manufacturer:	SUNWODA
Battery Information#2:	Model:	SS52
	Normal Voltage:	3.92V
	Rated capacity:	5100mAh
	Manufacturer:	Amperex
Battery Information#3:	Model:	SS52
	Normal Voltage:	3.92V



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Report No.: SZCR260200054301

Page: 9 of 157

	Rated capacity:	5100mAh
	Manufacturer:	Veken

Note:

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Remark:

Note: XT2625-8 (SB) and XT2625-9 (Retail) are the same product with identical prototypes. Only different model names are used for adaptation to different operators.

This test involves three samples. Prototype differences are referenced in the separately submitted Product Difference Declaration.

Based on the aforementioned differential points, comprehensive testing was only conducted on Sample 1, while Sample 2 and Sample 3 were verified against those differences.



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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 616217 D04	SAR for laptop and tablets 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.)



1.4 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

1.5 Test Engineer

Test Engineer: Grace Li, Messi Chen, Vito Wang, Ying Ma

1.6 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.



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.	



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.

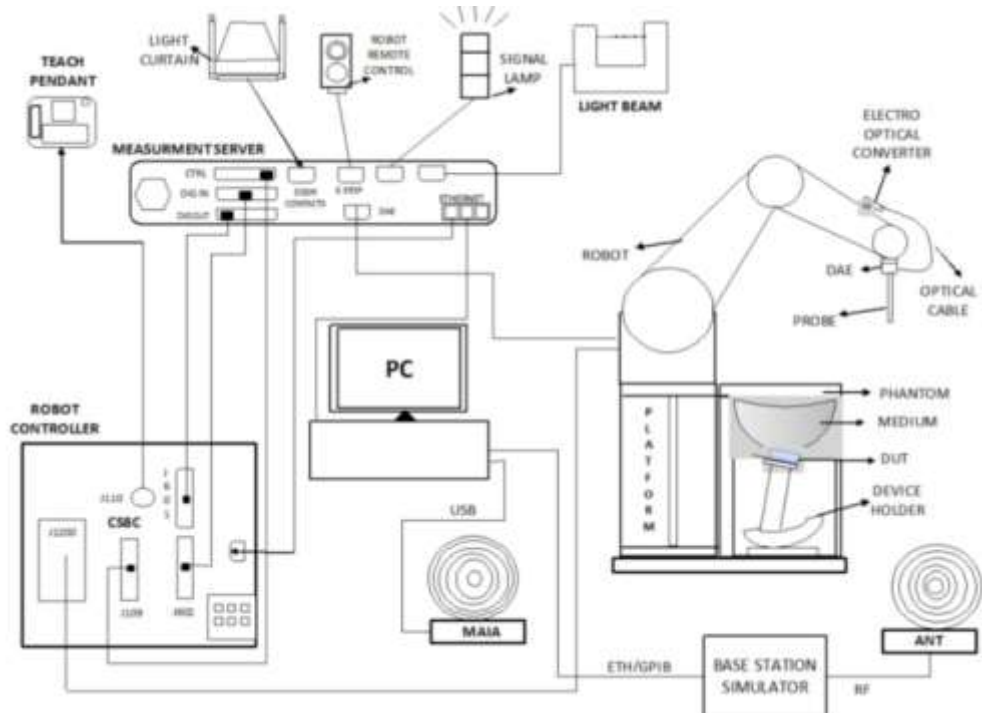
The DASY system for performing compliance tests consists of the following items:

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

- The function of the measurement server is to perform the time critical tasks such as signal filtering,

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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 15 of 157

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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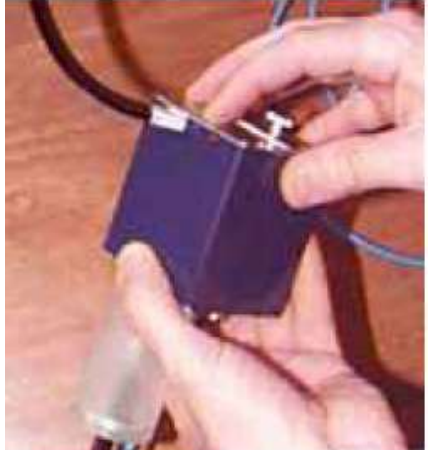
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3.2 Isotropic E-field Probe EX3DV4

	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	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 DASY 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. 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 4 MHz to 10 GHz. 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.

If the zoom scan measured as specified in the preceding paragraphs complies with both i) and ii), or if the psSAR is below 0,1 W/kg, no additional measurements are needed.

i) The smallest horizontal distance from the local SAR peaks to all points 3 dB below the SAR peak shall be larger than the horizontal grid steps in both x- and y-directions (Δx , Δy). This shall be checked for the measured zoom scan plane conformal to the phantom at the distance zM1. The minimum distance shall be recorded in the SAR test report.

ii) The ratio of the SAR at the second measured point (M2) to the SAR at the closest measured point (M1) at the x-y location of the measured maximum SAR value shall be at least 30 %. This ratio (in %) shall be recorded in the SAR test report.



		$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$		$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 12 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 12 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 10 \text{ mm}$
		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: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$		$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$	$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid $\Delta z_{\text{Zoom}}(1)$: between 1" two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z	$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$

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:

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

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:



$$E_i = (V_i / \text{Norm}_i \cdot \text{ConvF})^{1/2}$$

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 ($i = x, y, z$)

Norm_i = 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):

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

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

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

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.

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

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



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

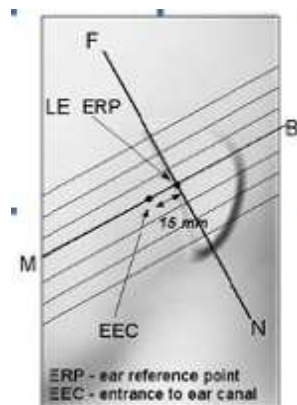


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

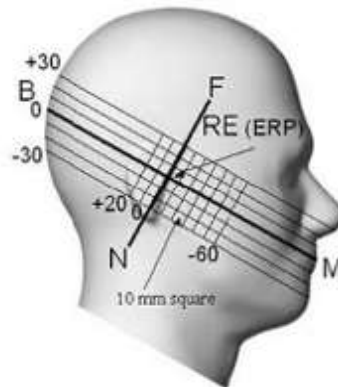
Note: The centre strip including the nose region has a different thickness tolerance.



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

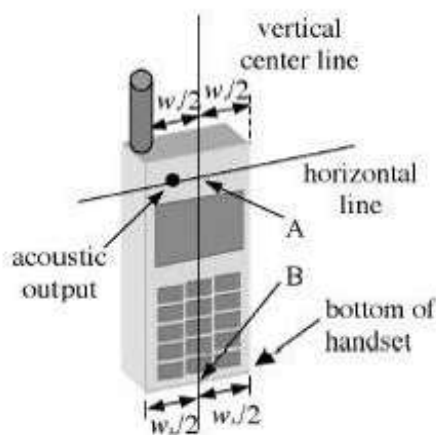


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

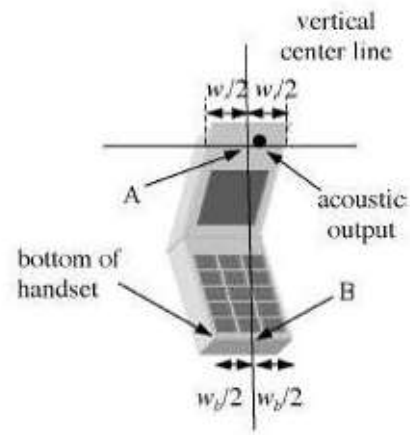


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



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



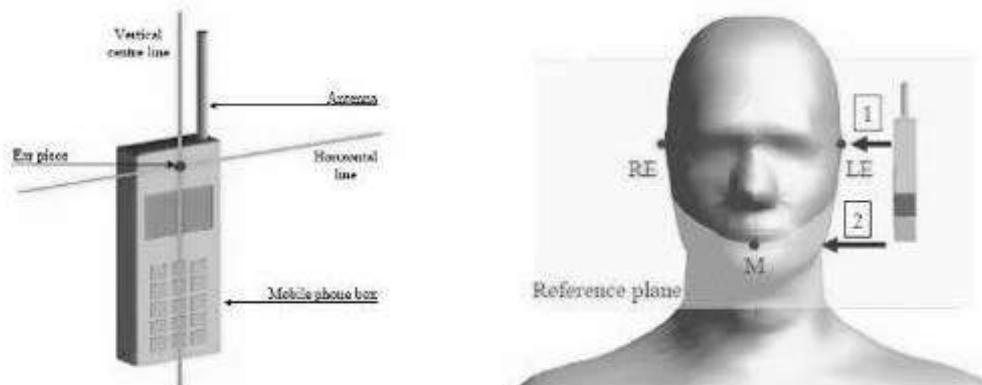
F-8.Handset vertical and horizontal reference lines-
“clam-shell case”

5.1.3 Definition of the “check” position

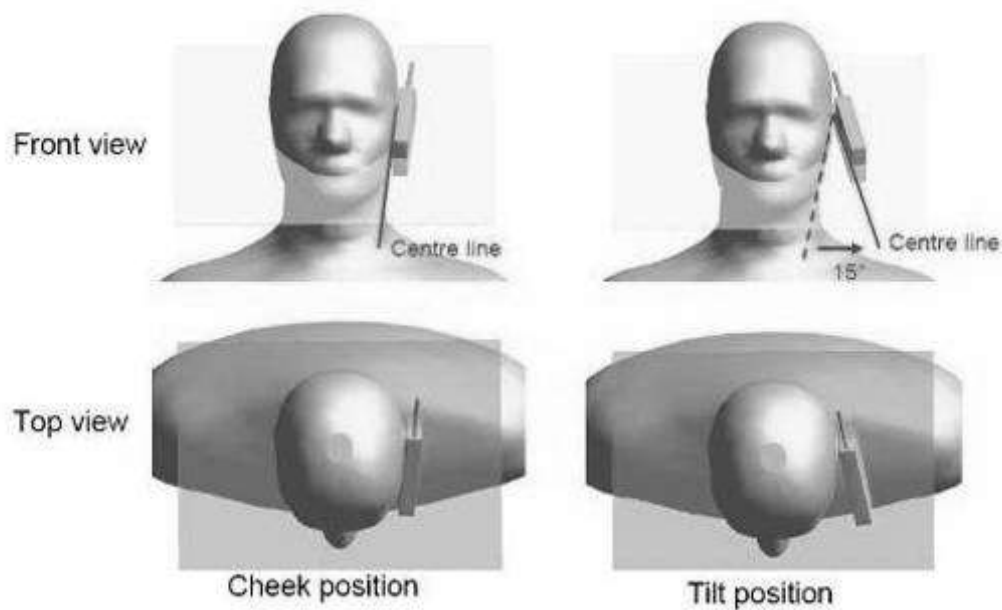
- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with 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

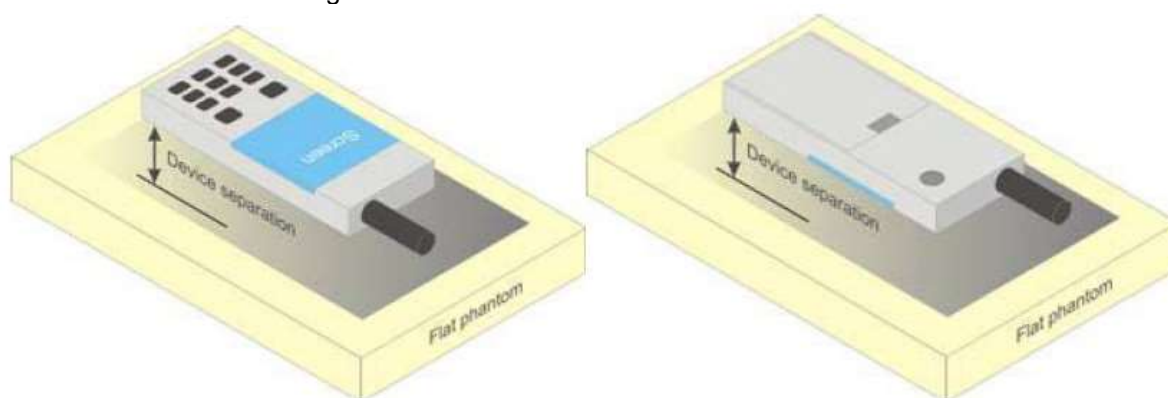
5.2.1 Body-worn exposure conditions

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 648474 D04, 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 GSM850/1900, WCDMA Band II/IV/V, LTE Band 2/4/7/26/38/41/42, NR Band n77, WIFI5G frequency bands need to test with 0mm for the Product Specific 10-g SAR, the others are not required.

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)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 5mm) ECI 7												
Front side	GPRS 3TS	190/836.6	1:2.77	0.398	0.237	-0.06	25.19	31.00	3.811	1.517	22.1	No
Back side	GPRS 3TS	190/836.6	1:2.77	0.797	0.429	-0.09	25.19	31.00	3.811	3.037	22.1	No
Right side	GPRS 3TS	190/836.6	1:2.77	0.280	0.176	0.09	25.19	31.00	3.811	1.067	22.1	Yes
Bottom side	GPRS 3TS	190/836.6	1:2.77	0.655	0.288	0.16	25.19	31.00	3.811	2.496	22.1	No
Back side	GPRS 3TS	128/824.2	1:2.77	0.827	0.440	-0.03	25.15	31.00	3.846	3.181	22.1	No
Back side-Repeated	GPRS 3TS	128/824.2	1:2.77	0.783	0.432	-0.04	25.15	31.00	3.846	3.011	22.1	No
Back side	GPRS 3TS	251/848.8	1:2.77	0.716	0.387	-0.19	25.03	31.00	3.954	2.831	22.1	No
Bottom side	GPRS 3TS	128/824.2	1:2.77	0.642	0.258	-0.06	25.15	31.00	3.846	2.469	22.0	No
Bottom side	GPRS 3TS	251/848.8	1:2.77	0.626	0.223	-0.18	25.03	31.00	3.954	2.475	22.0	No
Back side with Sample2	GPRS 3TS	128/824.2	1:2.77	0.800	0.459	0.12	25.15	31.00	3.846	3.077	22.1	No
Back side with Sample3	GPRS 3TS	128/824.2	1:2.77	0.790	0.424	-0.11	25.15	31.00	3.846	3.038	22.1	No



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 31 of 157

GSM1900 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)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 5mm) ECI 7												
Front side	GPRS 4TS	661/1880	1:2.075	0.270	0.146	-0.04	18.51	27.00	7.063	1.907	22.1	No
Back side	GPRS 4TS	661/1880	1:2.075	0.649	0.315	-0.17	18.51	27.00	7.063	4.584	22.1	No
Right side	GPRS 4TS	661/1880	1:2.075	0.044	0.025	0.04	18.51	27.00	7.063	0.311	22.1	Yes
Bottom side	GPRS 4TS	661/1880	1:2.075	0.685	0.323	0.01	18.51	27.00	7.063	4.838	22.1	No
Back side	GPRS 4TS	512/1850.2	1:2.075	0.643	0.331	0.03	18.44	27.00	7.178	4.615	22.1	No
Back side	GPRS 4TS	810/1909.8	1:2.075	0.665	0.337	0.15	18.49	27.00	7.096	4.719	22.1	No
Bottom side	GPRS 4TS	512/1850.2	1:2.075	0.673	0.307	-0.02	18.44	27.00	7.178	4.831	22.1	No
Bottom side	GPRS 4TS	810/1909.8	1:2.075	0.727	0.355	-0.07	18.49	27.00	7.096	5.159	22.1	No

WB2 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)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 5mm) ECI 7												
Front side	RMC	9400/1880	1:1	0.231	0.127	-0.14	16.42	24.00	5.728	1.323	21.8	No
Back side	RMC	9400/1880	1:1	0.520	0.290	-0.01	16.42	24.00	5.728	2.979	21.8	No
Right side	RMC	9400/1880	1:1	0.055	0.030	-0.12	16.42	24.00	5.728	0.315	21.8	Yes
Bottom side	RMC	9400/1880	1:1	0.637	0.314	-0.07	16.42	24.00	5.728	3.649	21.8	No
Bottom side	RMC	9262/1852.4	1:1	0.556	0.236	0.09	16.34	24.00	5.834	3.244	21.8	No
Bottom side	RMC	9538/1907.6	1:1	0.587	0.245	-0.12	16.37	24.00	5.794	3.401	21.8	No

WB4 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)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 5mm) ECI 7												
Front side	RMC	1412/1732.4	1:1	0.191	0.078	0.05	16.09	24.00	6.180	1.180	22.5	Yes
Back side	RMC	1412/1732.4	1:1	0.576	0.295	-0.08	16.09	24.00	6.180	3.560	22.5	No
Right side	RMC	1412/1732.4	1:1	0.058	0.031	0.03	16.09	24.00	6.180	0.358	22.5	Yes
Bottom side	RMC	1412/1732.4	1:1	0.691	0.343	0.16	16.09	24.00	6.180	4.270	22.5	No



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 32 of 157

Bottom side	RMC	1312/1712.4	1:1	0.748	0.356	-0.03	16.03	24.00	6.266	4.687	22.5	No
Bottom side	RMC	1513/1752.6	1:1	0.715	0.321	0.01	15.99	24.00	6.324	4.522	22.5	No

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)	Product Specific 10-g SAR Exclusion
Hotspot Test data(Separate 5mm) ECI 7												
Front side	RMC	4182/836.4	1:1	0.427	0.254	0.12	20.69	24.00	2.143	0.915	22.0	Yes
Back side	RMC	4182/836.4	1:1	0.846	0.442	0.00	20.69	24.00	2.143	1.813	22.0	No
Right side	RMC	4182/836.4	1:1	0.331	0.210	0.13	20.69	24.00	2.143	0.709	22.0	Yes
Bottom side	RMC	4182/836.4	1:1	0.792	0.336	0.13	20.69	24.00	2.143	1.697	22.0	No
Back side	RMC	4132/826.4	1:1	0.658	0.314	0.02	20.66	24.00	2.158	1.420	22.0	No
Back side	RMC	4233/846.6	1:1	0.702	0.333	0.07	20.58	24.00	2.198	1.543	22.0	No
Bottom side	RMC	4132/826.4	1:1	0.491	0.211	0.09	20.66	24.00	2.158	1.060	22.0	Yes
Bottom side	RMC	4233/846.6	1:1	0.519	0.234	0.06	20.58	24.00	2.198	1.141	22.0	Yes
Back side-Repeated	RMC	4182/836.4	1:1	0.806	0.398	0.13	20.69	24.00	2.143	1.727	22.0	No
Back side with Sample2	RMC	4182/836.4	1:1	0.826	0.413	0.15	20.69	24.00	2.143	1.770	22.0	No
Back side with Sample3	RMC	4182/836.4	1:1	0.794	0.392	0.09	20.69	24.00	2.143	1.702	22.0	No

LTE Band 2 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)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_0	18900/1880	1:1	0.285	0.152	-0.06	16.41	24.00	5.741	1.636	No
Back side	20	QPSK 1_0	18900/1880	1:1	0.606	0.315	-0.17	16.41	24.00	5.741	3.479	No
Right side	20	QPSK 1_0	18900/1880	1:1	0.070	0.040	-0.03	16.41	24.00	5.741	0.402	Yes
Bottom side	20	QPSK 1_0	18900/1880	1:1	0.681	0.389	0.10	16.41	24.00	5.741	3.910	No
Back side	20	QPSK 1_0	18700/1860	1:1	0.617	0.308	0.19	16.39	24.00	5.768	3.559	No
Back side	20	QPSK 1_0	19100/1900	1:1	0.562	0.278	-0.06	16.31	24.00	5.875	3.302	No
Bottom side	20	QPSK 1_0	18700/1860	1:1	0.686	0.415	-0.08	16.39	24.00	5.768	3.957	No
Bottom side	20	QPSK 1_0	19100/1900	1:1	0.637	0.378	0.17	16.31	24.00	5.875	3.742	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_25	18900/1880	1:1	0.233	0.128	-0.01	16.31	23.00	4.667	1.087	Yes
Back side	20	QPSK 50_25	18900/1880	1:1	0.562	0.277	0.10	16.31	23.00	4.667	2.623	No
Right side	20	QPSK 50_25	18900/1880	1:1	0.059	0.033	0.08	16.31	23.00	4.667	0.275	Yes
Bottom side	20	QPSK 50_25	18900/1880	1:1	0.630	0.312	0.04	16.31	23.00	4.667	2.940	No
Back side	20	QPSK 50_25	18700/1860	1:1	0.592	0.295	0.04	16.25	23.00	4.732	2.801	No



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 33 of 157

Back side	20	QPSK 50_25	19100/1900	1:1	0.578	0.285	0.16	16.20	23.00	4.786	2.766	21.8	No
Bottom side	20	QPSK 50_25	18700/1860	1:1	0.661	0.321	0.11	16.25	23.00	4.732	3.128	21.8	No
Bottom side	20	QPSK 50_25	19100/1900	1:1	0.614	0.301	0.12	16.20	23.00	4.786	2.939	21.8	No
Hotspot Test data (Separate 5mm 100%RB) ECI 7													
Back side	20	QPSK 100_0	18900/1880	1:1	0.574	0.292	-0.08	16.19	23.00	4.797	2.753	21.8	No
Bottom side	20	QPSK 100_0	18900/1880	1:1	0.622	0.349	-0.07	16.19	23.00	4.797	2.984	21.8	No

LTE Band 4 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)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.203	0.111	0.08	14.18	24.00	9.594	1.948	22.0	No
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.536	0.270	-0.16	14.18	24.00	9.594	5.142	22.0	No
Right side	20	QPSK 1_0	20175/1732.5	1:1	0.063	0.034	0.02	14.18	24.00	9.594	0.604	22.0	Yes
Bottom side	20	QPSK 1_0	20175/1732.5	1:1	0.667	0.336	0.02	14.18	24.00	9.594	6.399	22.0	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_25	20175/1732.5	1:1	0.164	0.088	0.05	14.26	23.00	7.482	1.227	22.0	No
Back side	20	QPSK 50_25	20175/1732.5	1:1	0.419	0.212	0.18	14.26	23.00	7.482	3.135	22.0	No
Right side	20	QPSK 50_25	20175/1732.5	1:1	0.046	0.025	0.02	14.26	23.00	7.482	0.344	22.0	Yes
Bottom side	20	QPSK 50_25	20175/1732.5	1:1	0.537	0.260	-0.14	14.26	23.00	7.482	4.018	22.0	No
Hotspot Test data (Separate 5mm 100%RB) ECI 7													
Back side	20	QPSK 100_0	20175/1732.5	1:1	0.443	0.279	-0.06	14.23	23.00	7.534	3.338	22.0	No
Bottom side	20	QPSK 100_0	20175/1732.5	1:1	0.554	0.326	0.01	14.23	23.00	7.534	4.174	22.0	No

LTE Band 7 SAR Test Record													
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)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_0	21100/2535	1:1	0.371	0.191	-0.12	16.93	24.00	5.093	1.890	22.5	No
Back side	20	QPSK 1_0	21100/2535	1:1	0.671	0.327	0.10	16.93	24.00	5.093	3.417	22.5	No
Left side	20	QPSK 1_0	21100/2535	1:1	0.234	0.135	0.05	16.93	24.00	5.093	1.192	22.5	Yes
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.509	0.235	0.08	16.93	24.00	5.093	2.592	22.5	No
Back side	20	QPSK 1_0	20850/2510	1:1	0.627	0.322	-0.16	16.72	24.00	5.346	3.352	22.5	No
Back side	20	QPSK 1_0	21350/2560	1:1	0.705	0.347	-0.02	16.92	24.00	5.105	3.599	22.5	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_25	21100/2535	1:1	0.319	0.160	-0.12	16.93	23.00	4.046	1.291	22.5	No
Back side	20	QPSK 50_25	21100/2535	1:1	0.572	0.283	-0.07	16.93	23.00	4.046	2.314	22.5	No



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 34 of 157

Left side	20	QPSK 50_25	21100/2535	1:1	0.241	0.115	0.15	16.93	23.00	4.046	0.975	22.5	Yes
Bottom side	20	QPSK 50_25	21100/2535	1:1	0.429	0.190	-0.12	16.93	23.00	4.046	1.736	22.5	No
Back side	20	QPSK 50_25	20850/2510	1:1	0.531	0.261	0.12	16.54	23.00	4.426	2.350	22.5	No
Back side	20	QPSK 50_25	21350/2560	1:1	0.627	0.303	-0.19	16.88	23.00	4.093	2.566	22.5	No
Hotspot Test data (Separate 5mm 100%RB) ECI 7													
Back side	20	QPSK 100_0	21100/2535	1:1	0.636	0.316	-0.19	16.98	23.00	3.999	2.543	22.5	No

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)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	15	QPSK 1_0	26865/831.5	1:1	0.469	0.274	0.16	20.66	24.00	2.158	1.012	22.2	Yes
Back side	15	QPSK 1_0	26865/831.5	1:1	0.924	0.490	0.06	20.66	24.00	2.158	1.994	22.2	No
Back side-Repeated	15	QPSK 1_0	26865/831.5	1:1	0.897	0.424	0.06	20.66	24.00	2.158	1.936	22.2	No
Right side	15	QPSK 1_0	26865/831.5	1:1	0.357	0.225	0.19	20.66	24.00	2.158	0.770	22.2	Yes
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.732	0.369	0.06	20.66	24.00	2.158	1.580	22.2	No
Back side with Sample2	15	QPSK 1_0	26865/831.5	1:1	0.851	0.463	-0.10	20.66	24.00	2.158	1.836	22.2	No
Back side with Sample3	15	QPSK 1_0	26865/831.5	1:1	0.828	0.434	0.14	20.66	24.00	2.158	1.787	22.2	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	15	QPSK 36_18	26865/831.5	1:1	0.374	0.216	-0.12	20.36	23.00	1.837	0.687	22.2	Yes
Back side	15	QPSK 36_18	26865/831.5	1:1	0.725	0.406	0.15	20.36	23.00	1.837	1.332	22.2	No
Right side	15	QPSK 36_18	26865/831.5	1:1	0.353	0.118	0.11	20.36	23.00	1.837	0.648	22.2	Yes
Bottom side	15	QPSK 36_18	26865/831.5	1:1	0.540	0.270	0.05	20.36	23.00	1.837	0.992	22.2	Yes
Hotspot Test data (Separate 5mm 100%RB) ECI 7													
Back side	15	QPSK 75_0	26865/831.5	1:1	0.794	0.435	-0.09	20.42	23.00	1.439	1.143	22.2	Yes
Bottom side	15	QPSK 75_0	26865/831.5	1:1	0.615	0.283	0.15	20.42	23.00	1.439	0.885	22.2	Yes

LTE Band 38 SAR Test Record													
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)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.074	0.039	-0.02	13.26	24.00	11.858	0.877	22.1	Yes
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.317	0.127	-0.08	13.26	24.00	11.858	3.759	22.1	No
Left side	20	QPSK 1_0	38000/2595	1:1.58	0.116	0.055	-0.17	13.26	24.00	11.858	1.376	22.1	No
Top side	20	QPSK 1_0	38000/2595	1:1.58	0.261	0.098	-0.05	13.26	24.00	11.858	3.095	22.1	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_25	38000/2595	1:1.58	0.067	0.031	0.12	13.13	23.00	9.705	0.650	22.1	Yes



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 35 of 157

Back side	20	QPSK 50_25	38000/2595	1:1.58	0.223	0.095	-0.12	13.13	23.00	9.705	2.164	22.1	No
Left side	20	QPSK 50_25	38000/2595	1:1.58	0.096	0.046	-0.10	13.13	23.00	9.705	0.932	22.1	Yes
Top side	20	QPSK 50_25	38000/2595	1:1.58	0.198	0.076	0.15	13.13	23.00	9.705	1.922	22.1	No

LTE Band 41 SAR Test Record													
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)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_0	41055/2636.5	1:1.58	0.147	0.071	0.09	16.85	24.00	5.188	0.763	22.2	Yes
Back side	20	QPSK 1_0	41055/2636.5	1:1.58	0.486	0.199	0.04	16.85	24.00	5.188	2.521	22.2	No
Left side	20	QPSK 1_0	41055/2636.5	1:1.58	0.182	0.088	0.07	16.85	24.00	5.188	0.944	22.2	Yes
Top side	20	QPSK 1_0	41055/2636.5	1:1.58	0.404	0.141	0.01	16.85	24.00	5.188	2.096	22.2	No
Back side-PC2	20	QPSK 1_0	41055/2636.5	1:2.31	0.449	0.173	-0.16	18.55	24.00	3.508	1.575	22.2	No
Back side	20	QPSK PCC 1_0	41055/2636.5	1:1.58	0.451	0.236	-0.04	17.49	24.00	4.477	2.019	22.2	No
		QPSK SCC 1_99	40857/2616.7										
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_0	41055/2636.5	1:1.58	0.119	0.059	0.10	16.87	23.00	4.102	0.488	22.2	Yes
Back side	20	QPSK 50_0	41055/2636.5	1:1.58	0.404	0.161	0.15	16.87	23.00	4.102	1.657	22.2	No
Left side	20	QPSK 50_0	41055/2636.5	1:1.58	0.155	0.072	-0.17	16.87	23.00	4.102	0.636	22.2	Yes
Top side	20	QPSK 50_0	41055/2636.5	1:1.58	0.329	0.111	-0.04	16.87	23.00	4.102	1.350	22.2	No
Ant 1 Test Record ENDC													
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)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_50	41490/2680	1:1.58	0.398	0.192	-0.19	16.43	24.00	5.715	2.275	22	No
Back side	20	QPSK 1_50	41490/2680	1:1.58	0.834	0.377	0.06	16.43	24.00	5.715	4.766	22	No
Back side-Repeated	20	QPSK 1_50	41490/2680	1:1.58	0.808	0.302	-0.01	16.43	24.00	5.715	4.618	22	No
Left side	20	QPSK 1_50	41490/2680	1:1.58	0.208	0.135	0.07	16.43	24.00	5.715	1.189	22	Yes
Bottom side	20	QPSK 1_50	41490/2680	1:1.58	0.616	0.267	0.03	16.43	24.00	5.715	3.520	22	No
Back side	20	QPSK 1_50	39750/2506	1:1.58	0.750	0.361	0.10	16.28	24.00	5.916	4.437	22	No
Back side	20	QPSK 1_50	40185/2549.5	1:1.58	0.772	0.369	0.06	16.39	24.00	5.768	4.453	22	No
Back side	20	QPSK 1_50	40620/2593	1:1.58	0.792	0.378	-0.10	16.29	24.00	5.902	4.674	22	No
Back side	20	QPSK 1_50	41055/2636.5	1:1.58	0.765	0.383	0.18	16.30	24.00	5.888	4.504	22	No
Bottom side	20	QPSK 1_50	39750/2506	1:1.58	0.598	0.258	0.02	16.28	24.00	5.916	3.538	22	No
Bottom side	20	QPSK 1_50	40185/2549.5	1:1.58	0.578	0.249	0.06	16.39	24.00	5.768	3.334	22	No
Bottom side	20	QPSK 1_50	40620/2593	1:1.58	0.569	0.255	-0.08	16.29	24.00	5.902	3.358	22	No
Bottom side	20	QPSK 1_50	41055/2636.5	1:1.58	0.556	0.236	0.04	16.30	24.00	5.888	3.274	22	No



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 36 of 157

Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_25	41490/2680	1:1.58	0.365	0.176	0.09	16.45	23.00	4.519	1.649	22	No
Back side	20	QPSK 50_25	41490/2680	1:1.58	0.685	0.225	-0.16	16.45	23.00	4.519	3.096	22	No
Left side	20	QPSK 50_25	41490/2680	1:1.58	0.163	0.077	0.07	16.45	23.00	4.519	0.737	22	Yes
Bottom side	20	QPSK 50_25	41490/2680	1:1.58	0.568	0.143	-0.18	16.45	23.00	4.519	2.567	22	No
Back side	20	QPSK 50_25	39750/2506	1:1.58	0.685	0.168	0.18	16.36	23.00	4.613	3.160	22	No
Back side	20	QPSK 50_25	40185/2549.5	1:1.58	0.598	0.194	0.11	16.37	23.00	4.603	2.753	22	No
Back side	20	QPSK 50_25	40620/2593	1:1.58	0.634	0.164	0.12	16.35	23.00	4.624	2.932	22	No
Back side	20	QPSK 50_25	41055/2636.5	1:1.58	0.647	0.225	-0.10	16.36	23.00	4.613	2.985	22	No
Bottom side	20	QPSK 50_25	39750/2506	1:1.58	0.536	0.136	-0.08	16.36	23.00	4.613	2.473	22	No
Bottom side	20	QPSK 50_25	40185/2549.5	1:1.58	0.547	0.129	0.04	16.37	23.00	4.603	2.518	22	No
Bottom side	20	QPSK 50_25	40620/2593	1:1.58	0.523	0.125	0.07	16.35	23.00	4.624	2.418	22	No
Bottom side	20	QPSK 50_25	41055/2636.5	1:1.58	0.516	0.102	0.02	16.36	23.00	4.613	2.380	22	No
Hotspot Test data (Separate 5mm 100%RB) ECI 7													
Back side	20	QPSK 100_0	41490/2680	1:1.58	0.745	0.268	0.09	16.30	23.00	4.677	3.484	22	No
Bottom side	20	QPSK 100_0	41490/2680	1:1.58	0.563	0.143	-0.06	16.30	23.00	4.677	2.633	22	No

LTE Band 42 SAR Test Record													
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)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	20	QPSK 1_99	42990/3540	1:1.58	0.098	0.042	0.05	15.38	24.00	7.278	0.713	22.1	Yes
Back side	20	QPSK 1_99	42990/3540	1:1.58	0.369	0.152	0.09	15.38	24.00	7.278	2.686	22.1	No
Right side	20	QPSK 1_99	42990/3540	1:1.58	0.029	0.014	0.17	15.38	24.00	7.278	0.211	22.1	Yes
Top side	20	QPSK 1_99	42990/3540	1:1.58	0.162	0.066	0.06	15.38	24.00	7.278	1.179	22.1	Yes
Back side	20	QPSK PCC 1_99	42590/3500	1:1.58	0.298	0.124	0.15	14.86	24.00	8.204	2.445	22.1	No
		QPSK SCC 1_0	42788/3519.8										Yes
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	20	QPSK 50_50	42990/3540	1:1.58	0.078	0.034	-0.19	15.27	23.00	5.929	0.462	22.1	Yes
Back side	20	QPSK 50_50	42990/3540	1:1.58	0.303	0.118	-0.12	15.27	23.00	5.929	1.796	22.1	No
Right side	20	QPSK 50_50	42990/3540	1:1.58	0.024	0.011	0.01	15.27	23.00	5.929	0.142	22.1	Yes
Top side	20	QPSK 50_50	42990/3540	1:1.58	0.128	0.053	0.06	15.27	23.00	5.929	0.759	22.1	Yes

SA 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)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 37 of 157

Front side	100	QPSK 1_271	633334/3500	100%	0.100	0.042	-0.10	13.38	27.00	23.014	2.301	22.2	No
Back side	100	QPSK 1_271	633334/3500	100%	0.439	0.177	0.05	13.38	27.00	23.014	10.103	22.2	No
Right side	100	QPSK 1_271	633334/3500	100%	0.028	0.013	-0.15	13.38	27.00	23.014	0.644	22.2	Yes
Top side	100	QPSK 1_271	633334/3500	100%	0.148	0.063	0.12	13.38	27.00	23.014	3.406	22.2	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	633334/3500	100%	0.095	0.042	0.00	13.30	27.00	23.442	2.227	22.2	No
Back side	100	QPSK 135_69	633334/3500	100%	0.449	0.193	-0.01	13.30	27.00	23.442	10.525	22.2	No
Right side	100	QPSK 135_69	633334/3500	100%	0.025	0.013	0.13	13.30	27.00	23.442	0.586	22.2	Yes
Top side	100	QPSK 135_69	633334/3500	100%	0.139	0.059	0.14	13.30	27.00	23.442	3.258	22.2	No
Ant2 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)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	100	QPSK 1_137	633334/3500	100%	0.136	0.062	-0.04	21.21	26.00	3.013	0.410	22.1	Yes
Back side	100	QPSK 1_137	633334/3500	100%	0.454	0.179	0.03	21.21	26.00	3.013	1.368	22.1	No
Left side	100	QPSK 1_137	633334/3500	100%	0.386	0.157	0.06	21.21	26.00	3.013	1.163	22.1	Yes
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	633334/3500	100%	0.121	0.053	0.13	21.30	26.00	2.951	0.357	22.1	Yes
Back side	100	QPSK 135_69	633334/3500	100%	0.480	0.187	0.02	21.30	26.00	2.951	1.416	22.1	No
Left side	100	QPSK 135_69	633334/3500	100%	0.373	0.146	0.11	21.30	26.00	2.951	1.101	22.1	Yes
Ant 8 Test Record SRS													
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)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	100	QPSK 1_271	633334/3500	100%	0.036	0.016	-0.06	16.03	27.00	12.503	0.450	22.3	Yes
Back side	100	QPSK 1_271	633334/3500	100%	0.433	0.177	0.02	16.03	27.00	12.503	5.414	22.3	No
Right side	100	QPSK 1_271	633334/3500	100%	0.170	0.063	0.14	16.03	27.00	12.503	2.126	22.3	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	633334/3500	100%	0.037	0.017	0.07	16.00	27.00	12.589	0.466	22.3	Yes
Back side	100	QPSK 135_69	633334/3500	100%	0.437	0.184	0.05	16.00	27.00	12.589	5.501	22.3	No
Right side	100	QPSK 135_69	633334/3500	100%	0.143	0.059	-0.06	16.00	27.00	12.589	1.800	22.3	No

SA 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)	Product Specific 10-g SAR Exclusion



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 38 of 157

Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	100	QPSK 1_137	657200/3858	100%	0.191	0.078	0.05	13.78	27.00	20.989	4.009	22.2	No
Back side	100	QPSK 1_137	657200/3858	100%	0.406	0.156	-0.04	13.78	27.00	20.989	8.522	22.2	No
Right side	100	QPSK 1_137	657200/3858	100%	0.074	0.032	0.01	13.78	27.00	20.989	1.553	22.2	No
Top side	100	QPSK 1_137	657200/3858	100%	0.291	0.108	-0.01	13.78	27.00	20.989	6.108	22.2	No
Back side	100	QPSK 1_137	654800/3822	100%	0.326	0.135	0.15	13.69	27.00	21.429	6.986	22.2	No
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	657200/3858	100%	0.187	0.076	-0.09	13.75	27.00	21.135	3.952	22.2	No
Back side	100	QPSK 135_69	657200/3858	100%	0.385	0.145	-0.02	13.75	27.00	21.135	8.137	22.2	No
Right side	100	QPSK 135_69	657200/3858	100%	0.073	0.031	0.11	13.75	27.00	21.135	1.543	22.2	No
Top side	100	QPSK 135_69	657200/3858	100%	0.269	0.108	0.11	13.75	27.00	21.135	5.685	22.2	No
Back side	100	QPSK 135_69	657200/3858	100%	0.311	0.124	-0.06	13.65	27.00	21.627	6.726	22.2	No
Ant2 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)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	100	QPSK 1_1	654800/3822	100%	0.119	0.055	-0.18	20.99	26.00	3.170	0.377	22.3	Yes
Back side	100	QPSK 1_1	654800/3822	100%	0.468	0.204	-0.12	20.99	26.00	3.170	1.484	22.3	No
Left side	100	QPSK 1_1	654800/3822	100%	0.362	0.150	0.04	20.99	26.00	3.170	1.148	22.3	Yes
Back side	100	QPSK 1_1	657200/3858	100%	0.385	0.149	0.11	20.88	26.00	3.251	1.252	22.3	No
Left side	100	QPSK 1_1	657200/3858	100%	0.242	0.087	0.15	20.88	26.00	3.251	0.787	22.3	Yes
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	100		654800/3822	100%	0.111	0.051	0.00	20.84	26.00	3.281	0.364	22.3	Yes
Back side	100	QPSK 135_69	654800/3822	100%	0.427	0.173	0.10	20.84	26.00	3.281	1.401	22.3	No
Left side	100	QPSK 135_69	654800/3822	100%	0.333	0.115	0.10	20.84	26.00	3.281	1.093	22.3	Yes
Back side	100	QPSK 135_69	654800/3822	100%	0.387	0.168	0.12	20.73	26.00	3.365	1.302	22.3	No
Left side	100	QPSK 135_69	654800/3822	100%	0.231	0.079	0.09	20.73	26.00	3.365	0.777	22.3	Yes
Ant 8 Test Record SRS													
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)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 5mm 1RB) ECI 7													
Front side	100	QPSK 1_137	654800/3822	100%	0.061	0.026	-0.13	16.02	27.00	12.531	0.764	22.1	Yes
Back side	100	QPSK 1_137	654800/3822	100%	0.127	0.051	0.07	16.02	27.00	12.531	1.591	22.1	No
Right side	100	QPSK 1_137	654800/3822	100%	0.034	0.013	0.07	16.02	27.00	12.531	0.426	22.1	Yes
Hotspot Test data (Separate 5mm 50%RB) ECI 7													
Front side	100	QPSK 135_69	654800/3822	100%	0.058	0.023	0.03	16.03	27.00	12.503	0.725	22.1	Yes
Back side	100	QPSK 135_69	654800/3822	100%	0.105	0.044	0.17	16.03	27.00	12.503	1.313	22.1	No
Right side	100	QPSK 135_69	654800/3822	100%	0.030	0.012	-0.12	16.03	27.00	12.503	0.375	22.1	Yes



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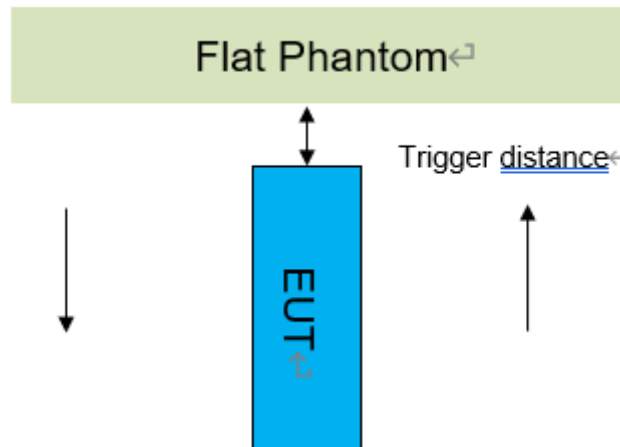
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5.4 Proximity Sensor Triggering Test

5.4.1 Proximity sensor triggering distances

The Proximity sensor triggering was applied to the below table list antenna. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.



Proximity Sensor Triggering Distance(mm) Front view							
Ant	Ant0	Ant1	Ant2	Ant4	Ant5	Ant6	Ant8
Band	GSM:850/1900 WCDMA:B2/5/4 LTE:B2/4/12/17/5/26	LTE:B7/41 NR:N77/78	NR:N77/78	LTE:B38/41	LTE:B42 NR:N77/78	WiFi:2.4G/5G	NR:N77/78
Body	Front Side 15mm Back Side 22mm	Front Side 15mm Back Side 20mm	Front Side 15mm Back Side 20mm	Front Side 15mm Back Side 20mm	Front Side 15mm Back Side 20mm	Front Side 15mm Back Side 20mm	Front Side 15mm Back Side 20mm
Extremity	Front Side 5mm Back Side 13mm Right Side 5mm Bottom Side 17mm	Front Side 9mm Back Side 12mm Left Side 7mm Bottom Side 14mm	Front Side 15mm Back Side 20mm	Front Side 10mm Back Side 12mm Left Side 6mm Top Side 15mm	Front Side 4mm Back Side 6mm Top Side 9mm	Front Side 7mm Back Side 10mm Right Side 5mm Top Side 13mm	Front Side 15mm Back Side 20mm

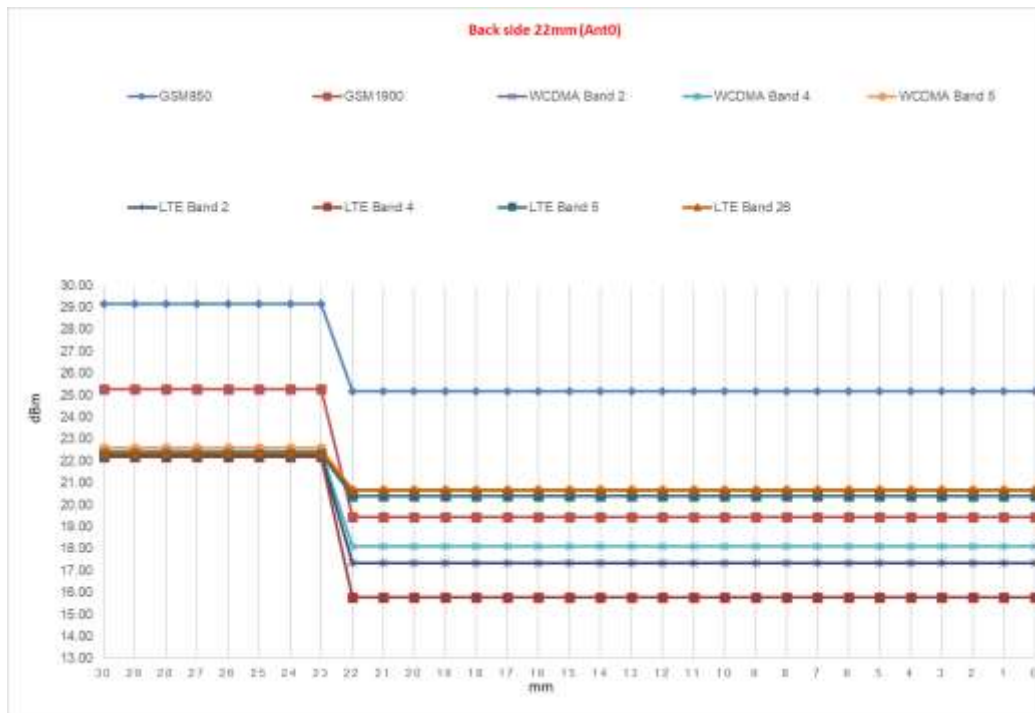
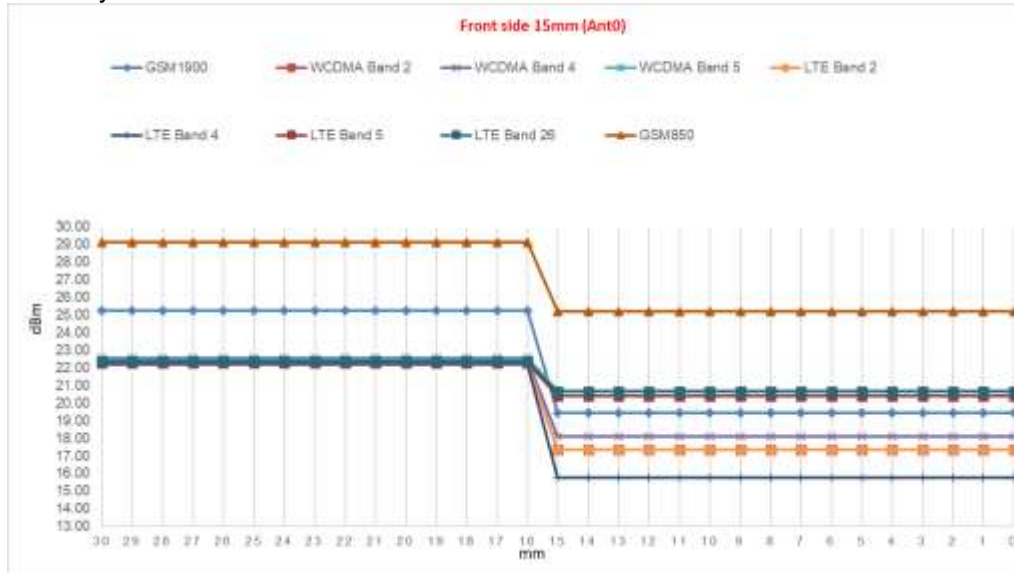
Note:

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

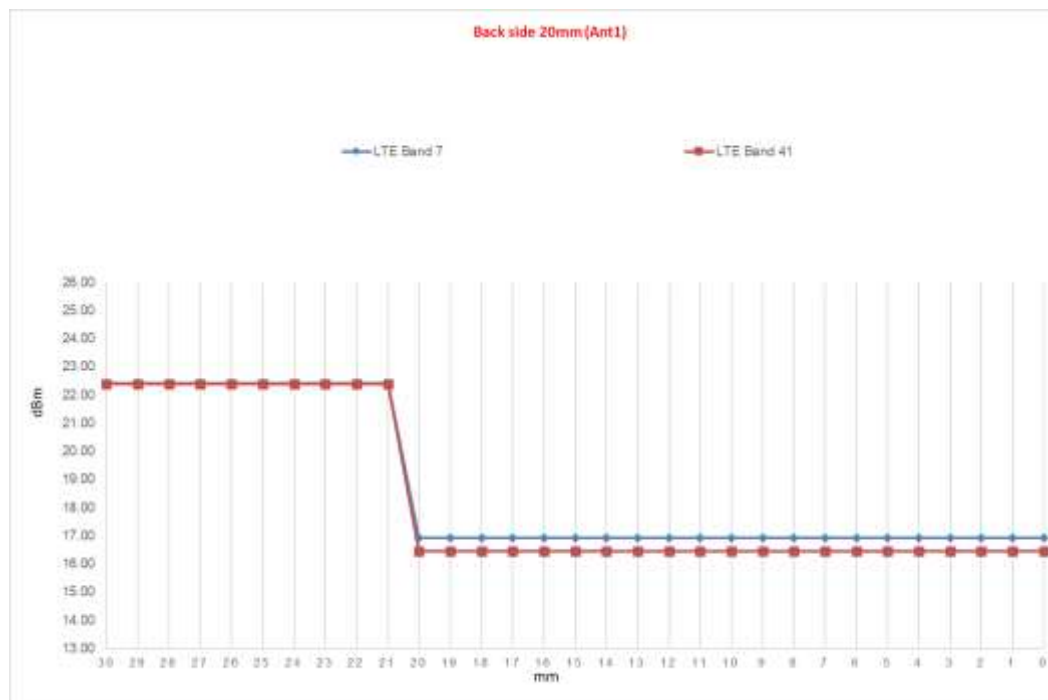
● DUT Moving Toward(Trigger)the Phantom

Body worn:

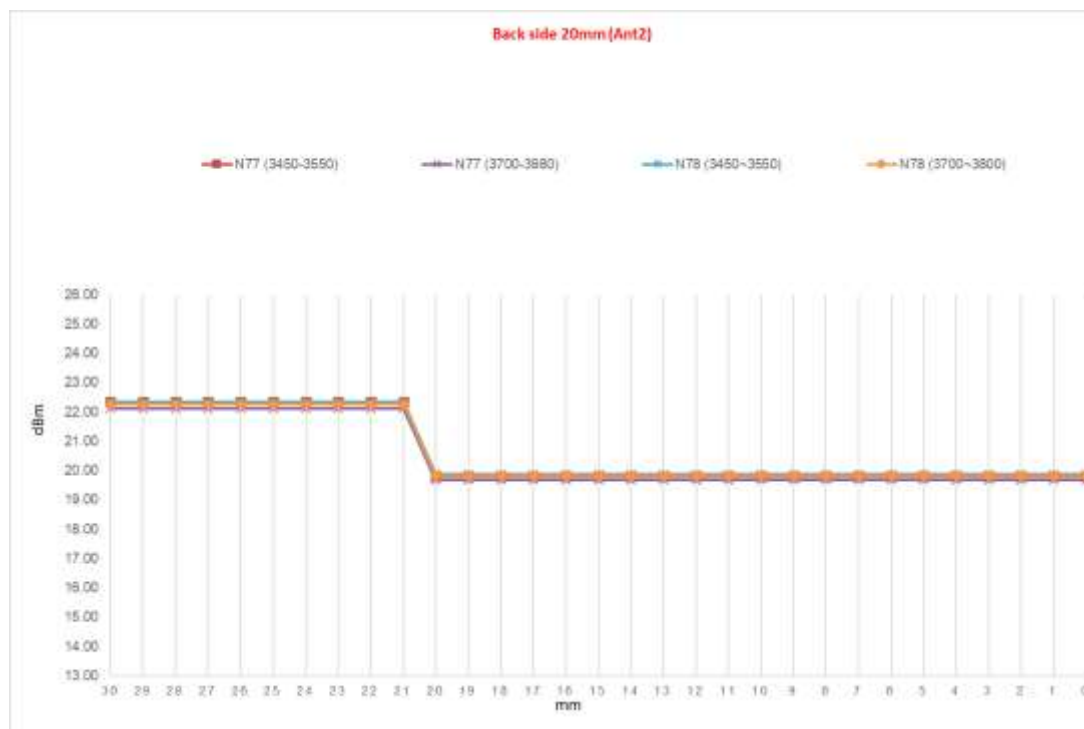
For body worn Ant0



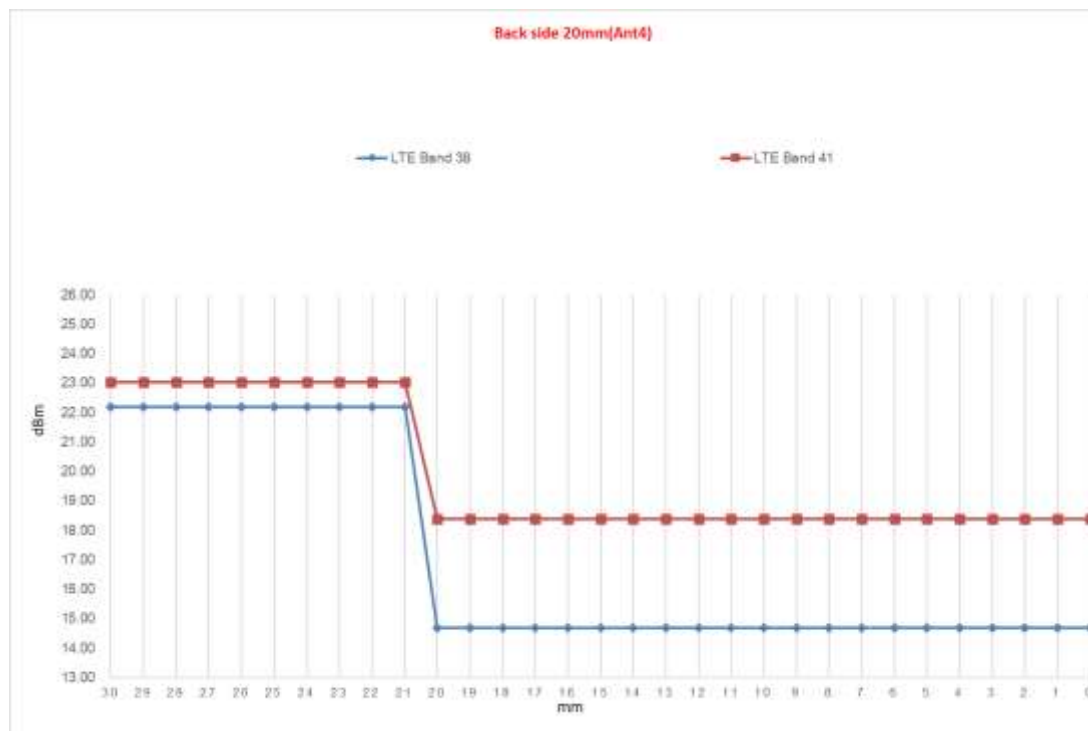
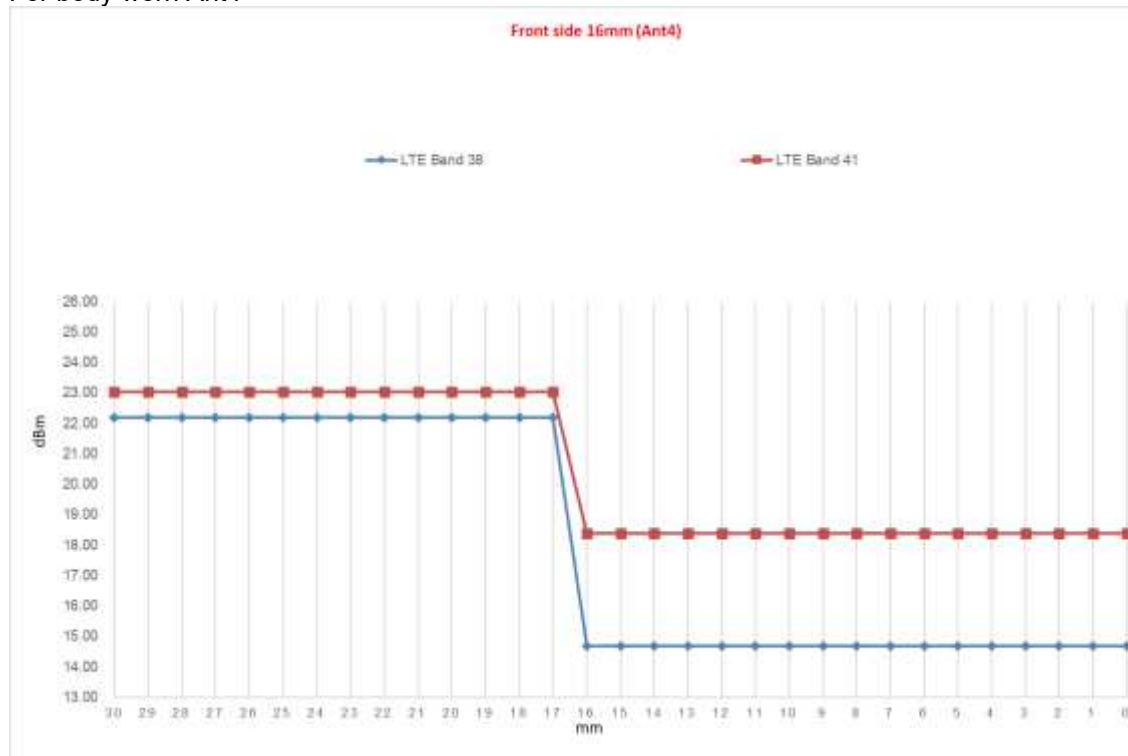
For body worn Ant1



For body worn Ant2



For body worn Ant4



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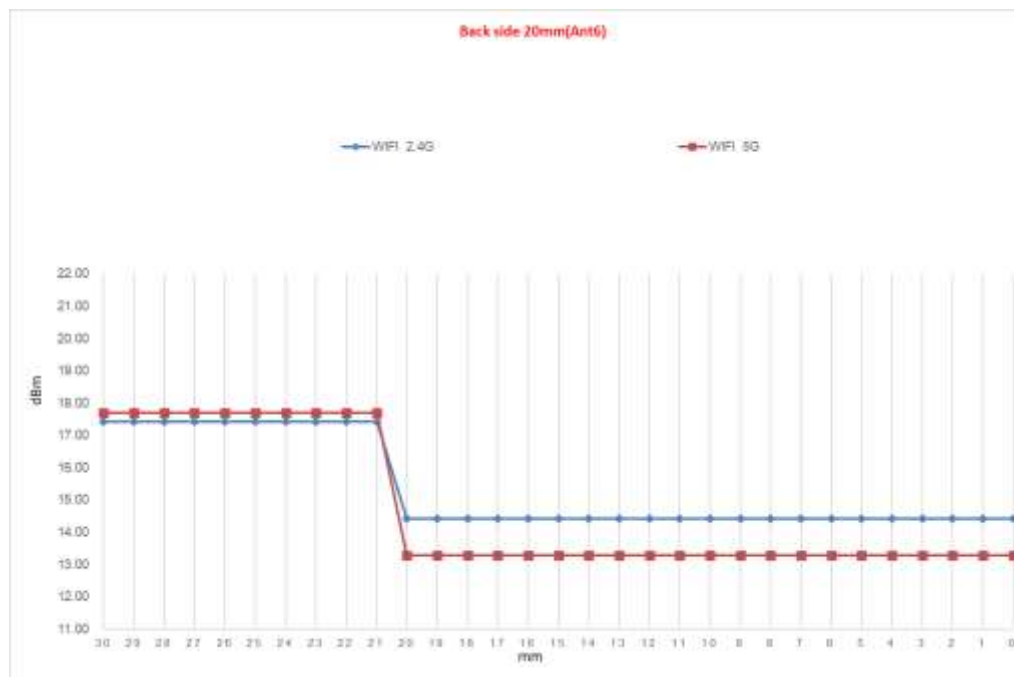
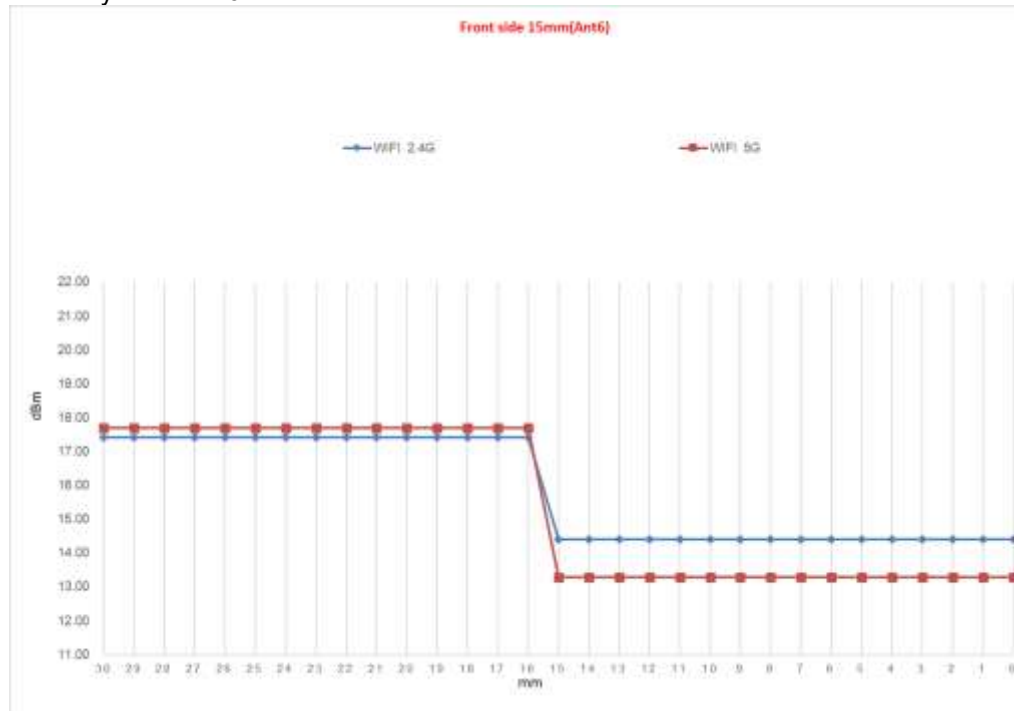
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For body worn Ant6



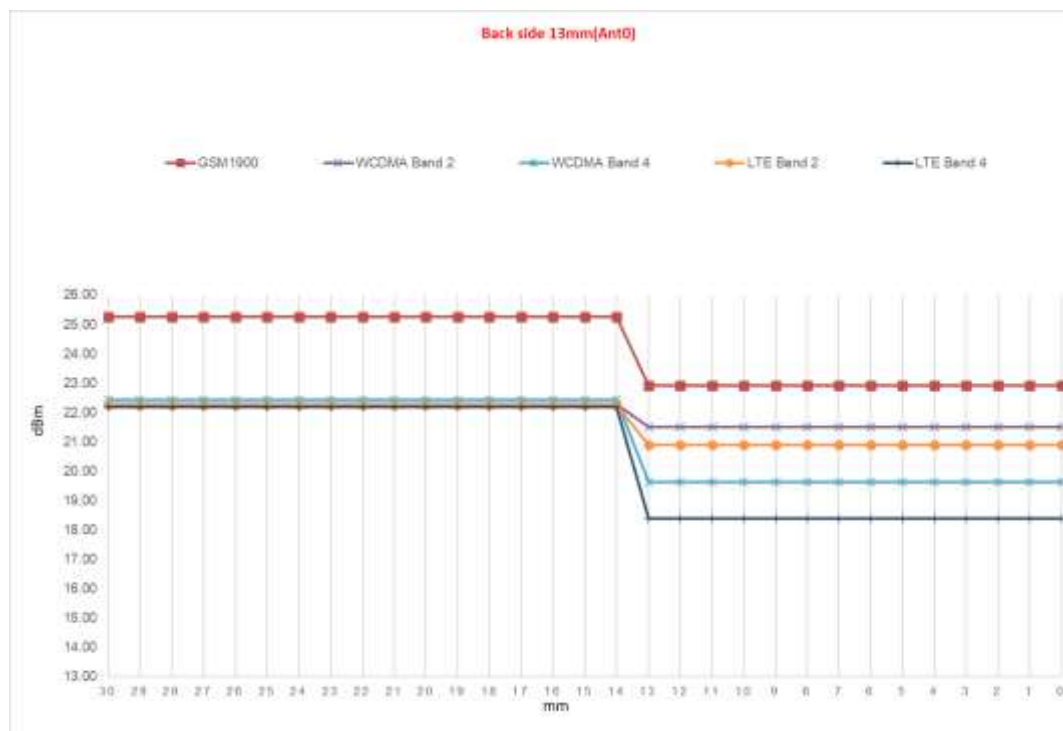
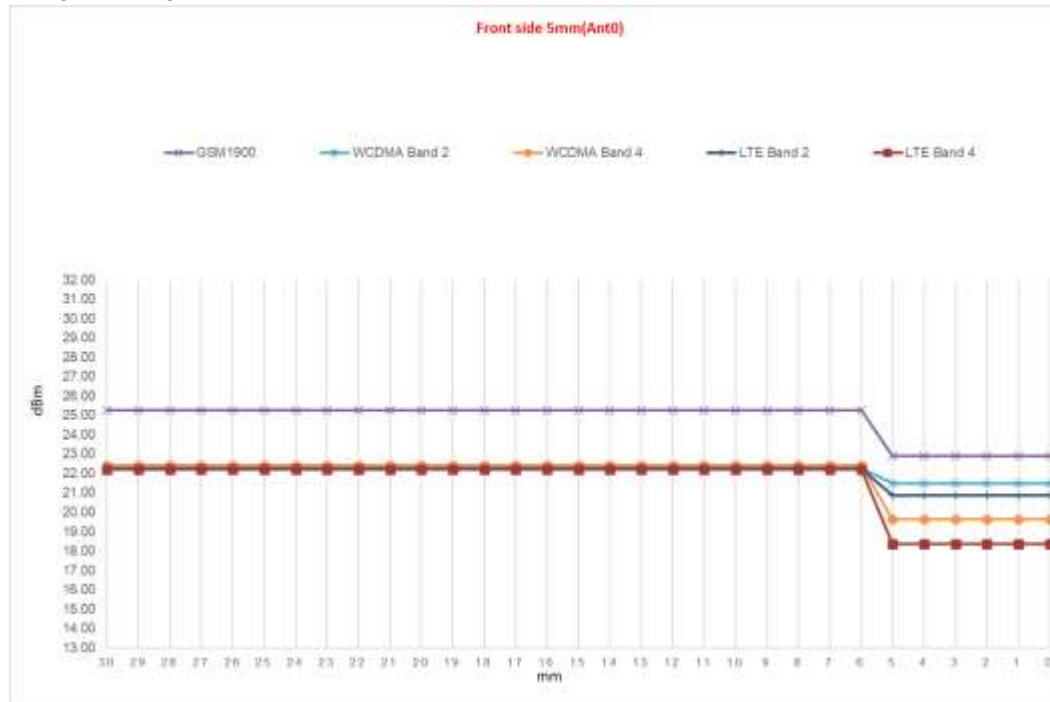
For body worn Ant8



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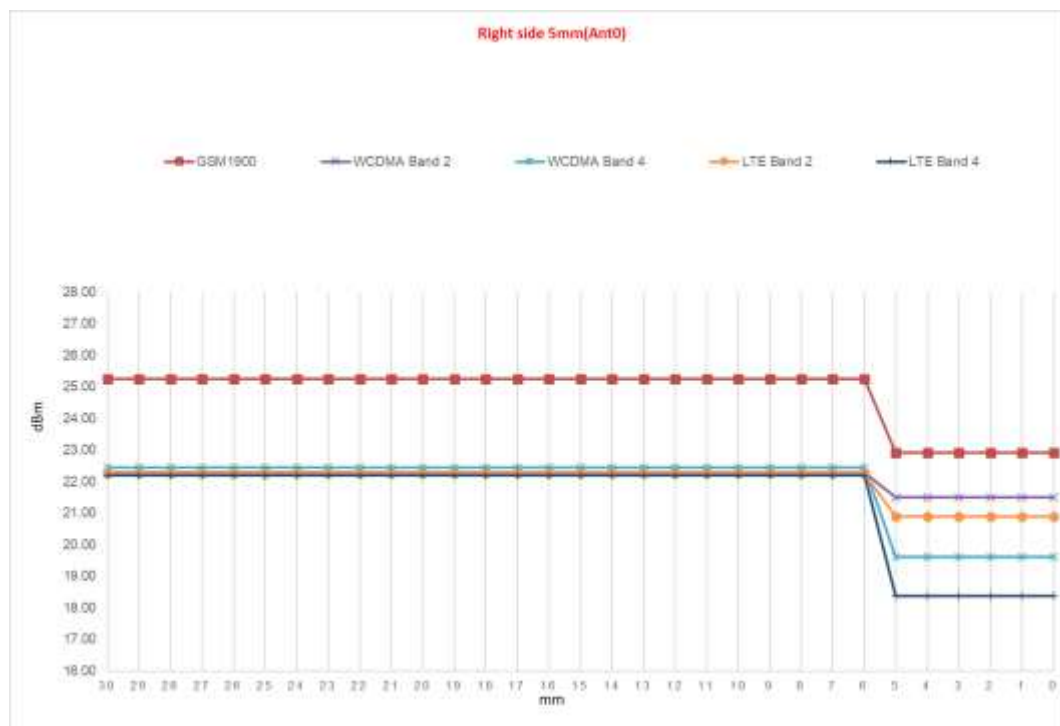
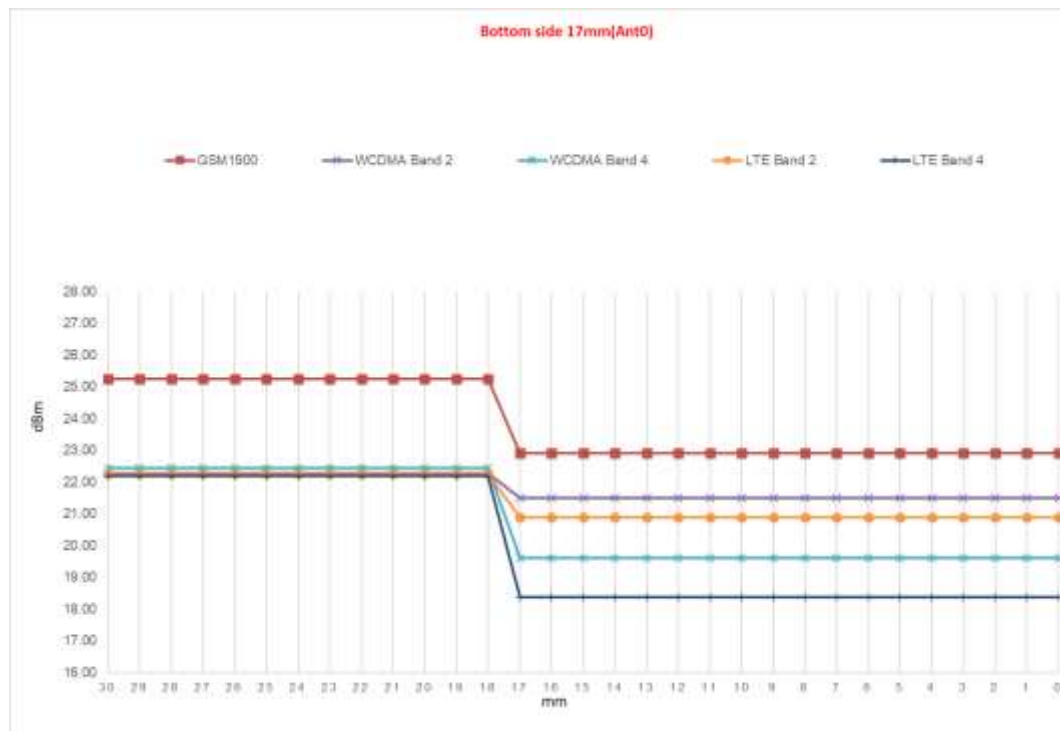
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Extremity :
For 0mm Ant0



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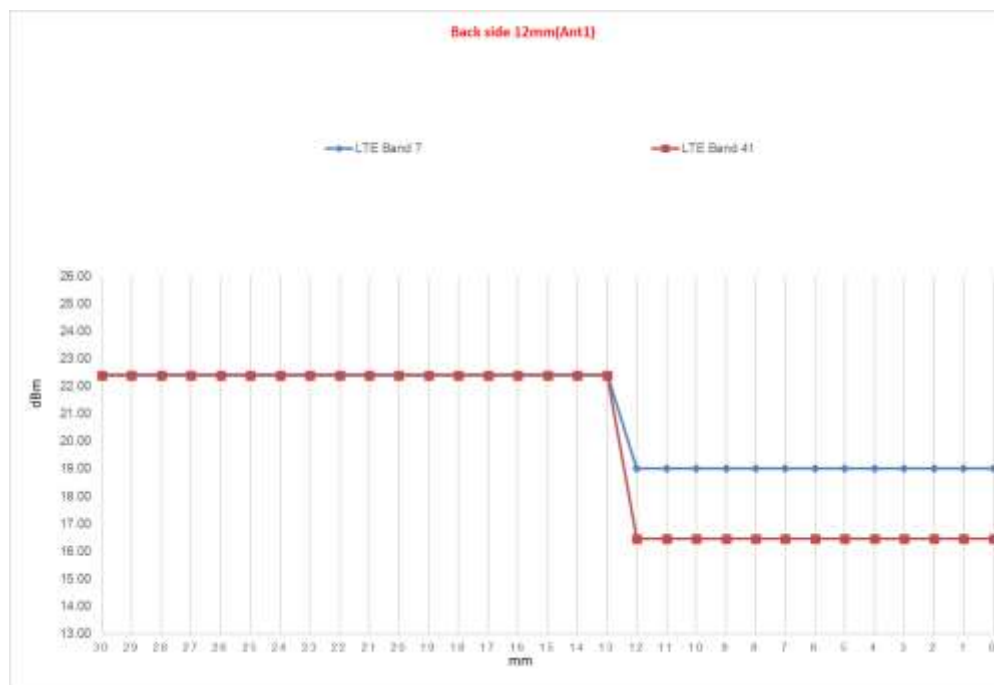
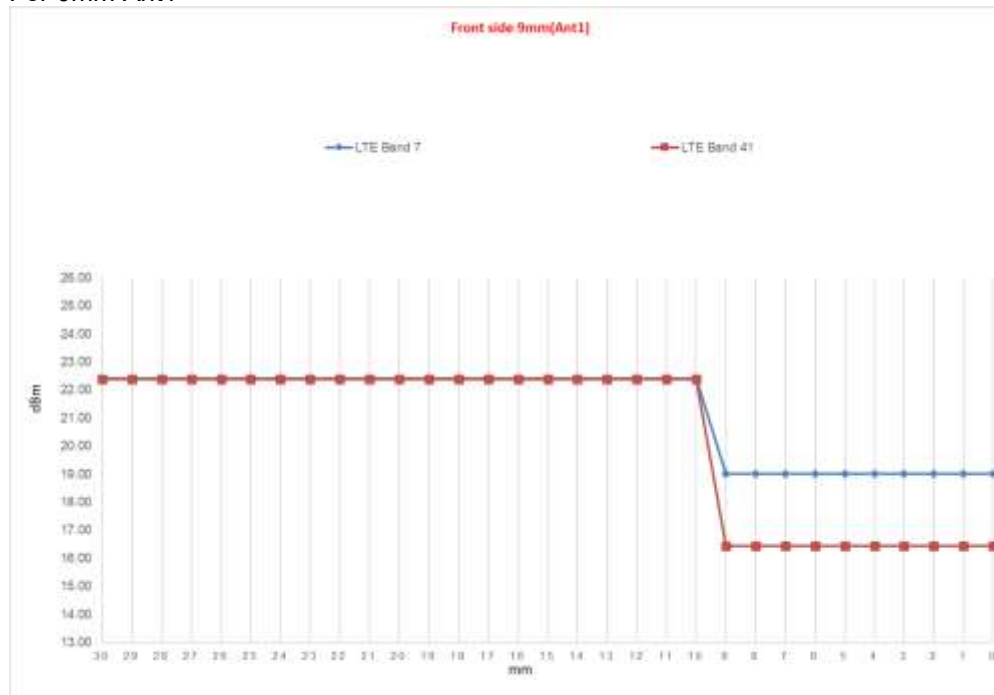
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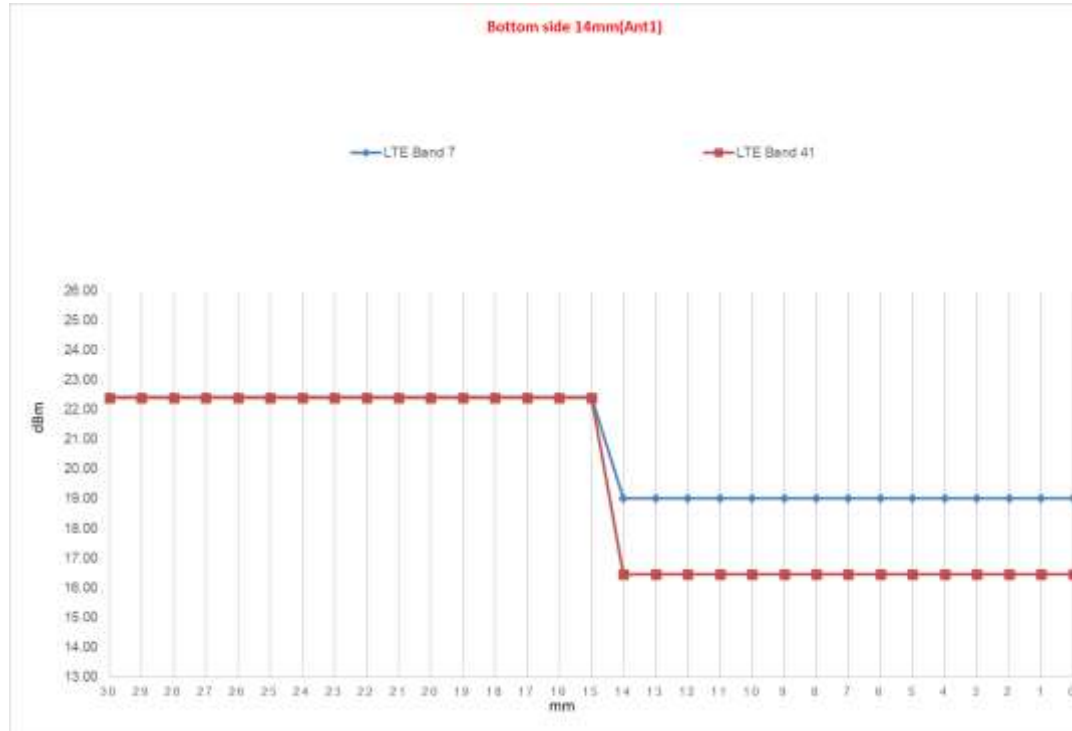
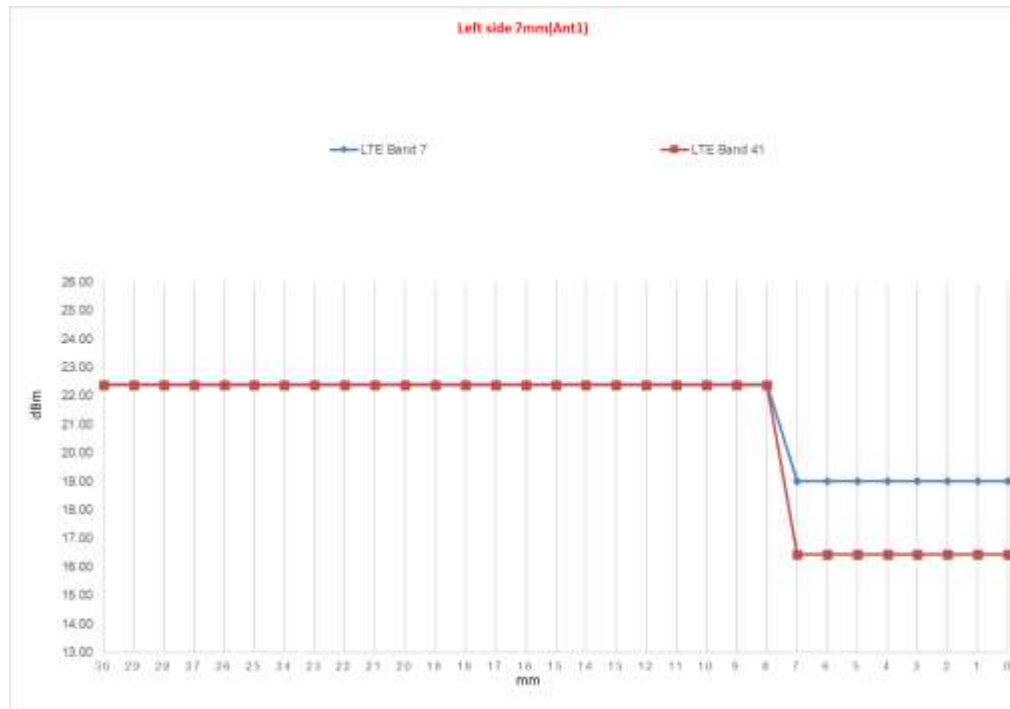


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For 0mm Ant1



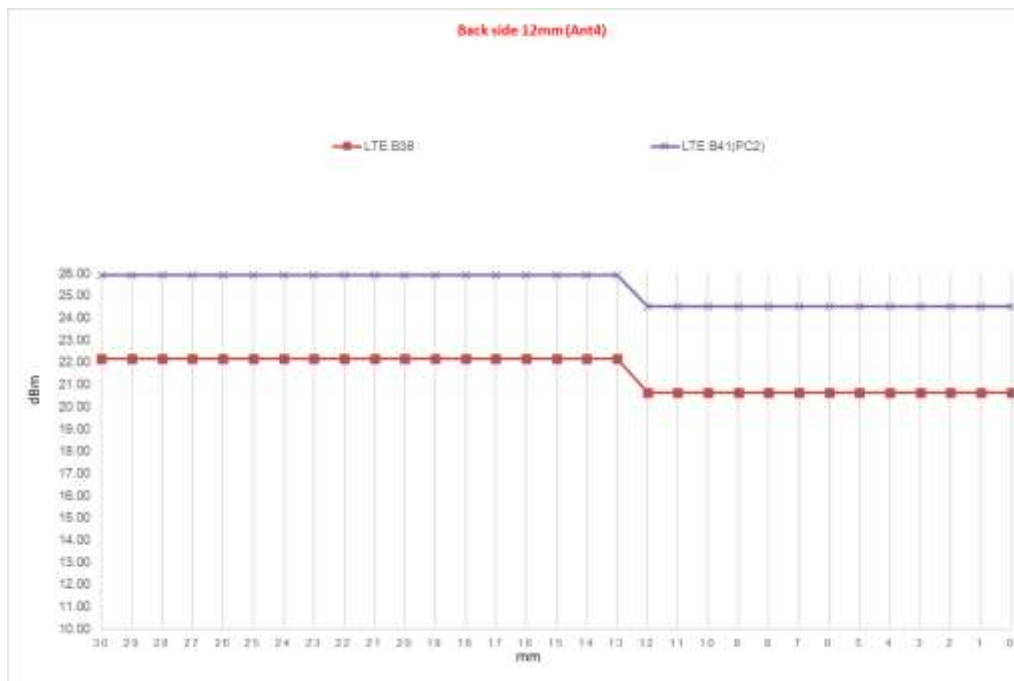
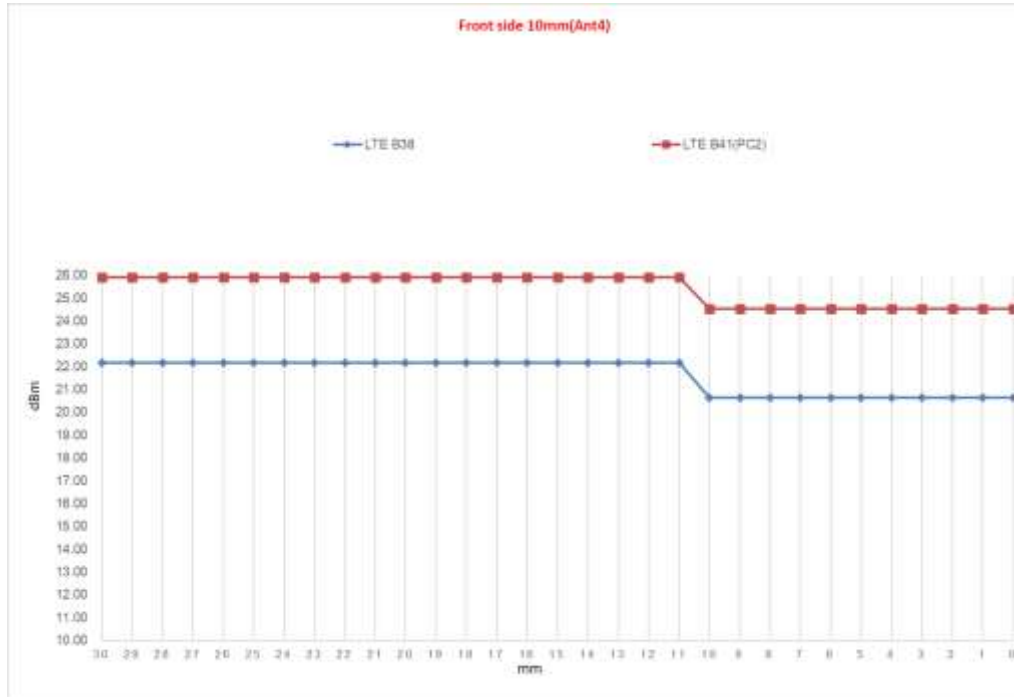


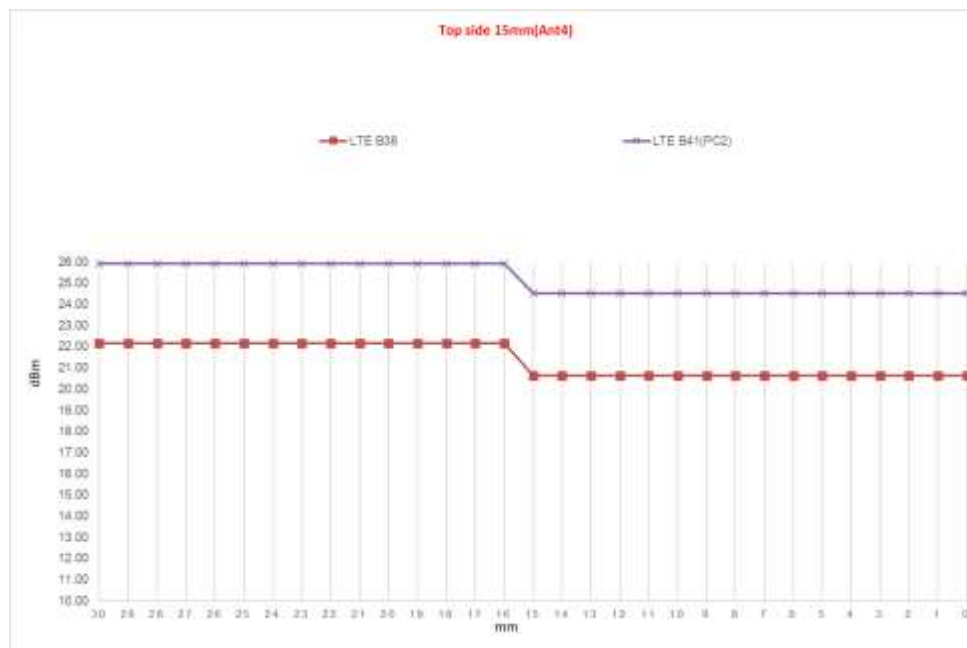
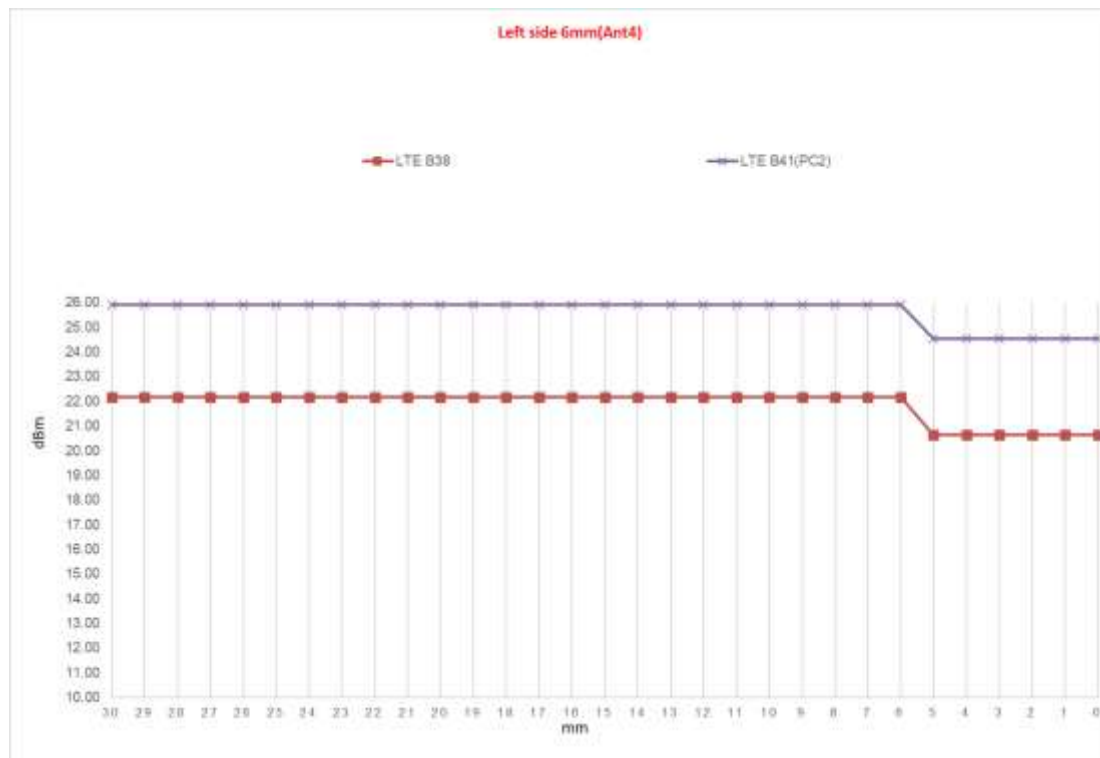
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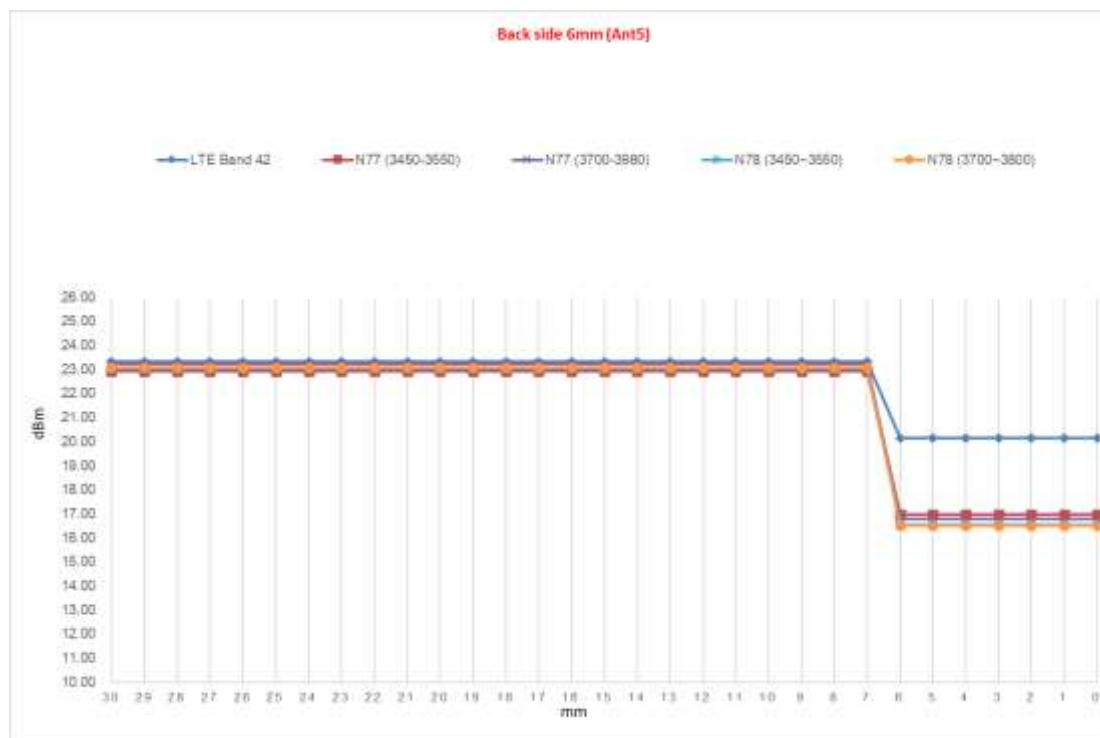
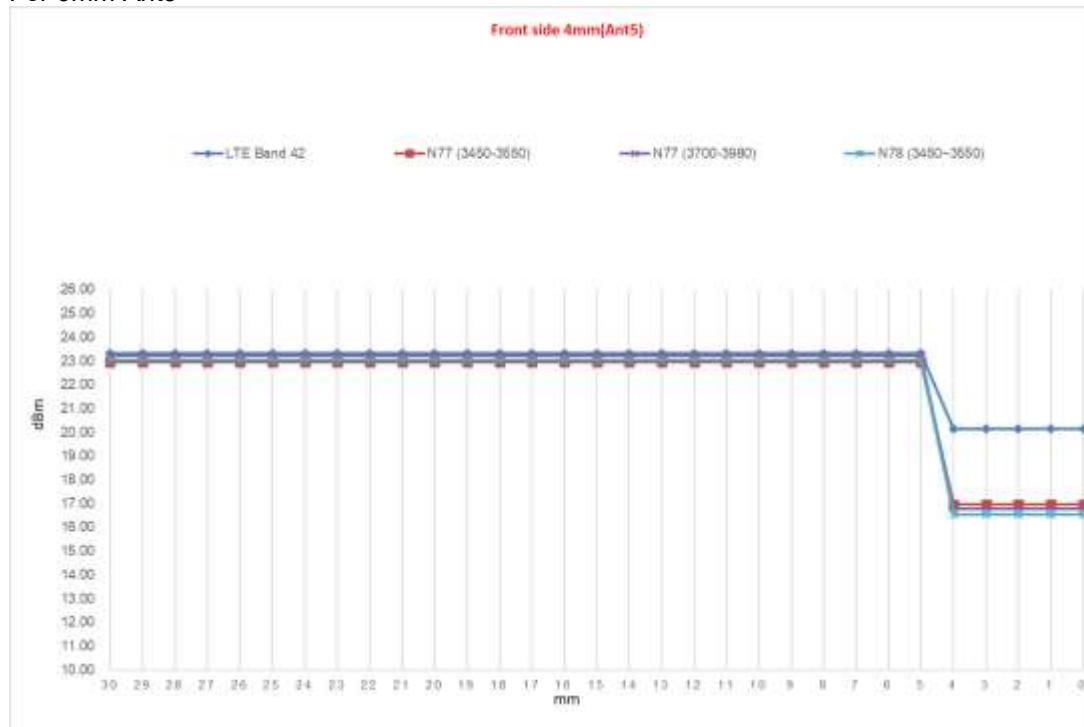
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For 0mm Ant4





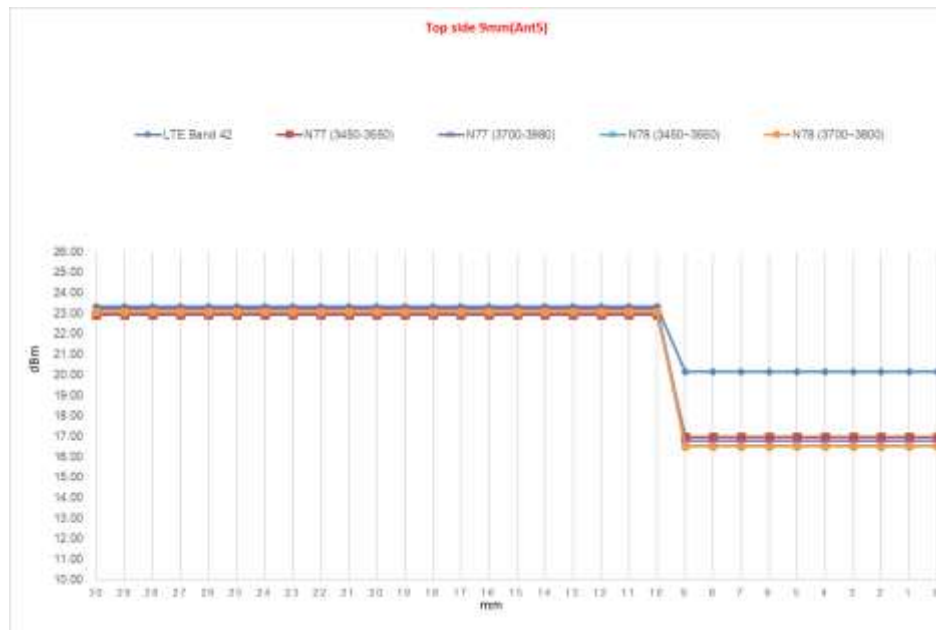
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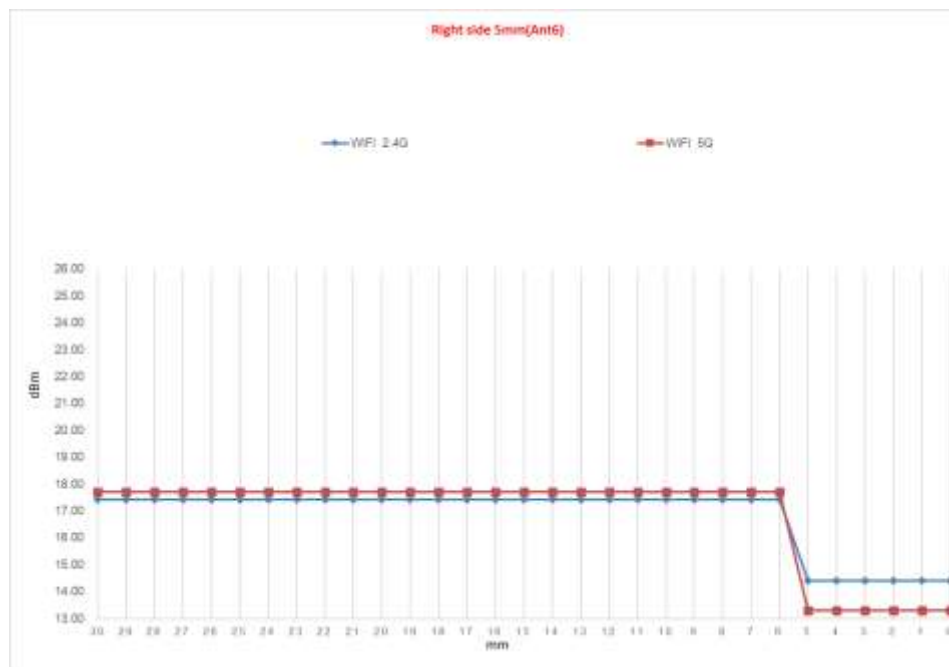
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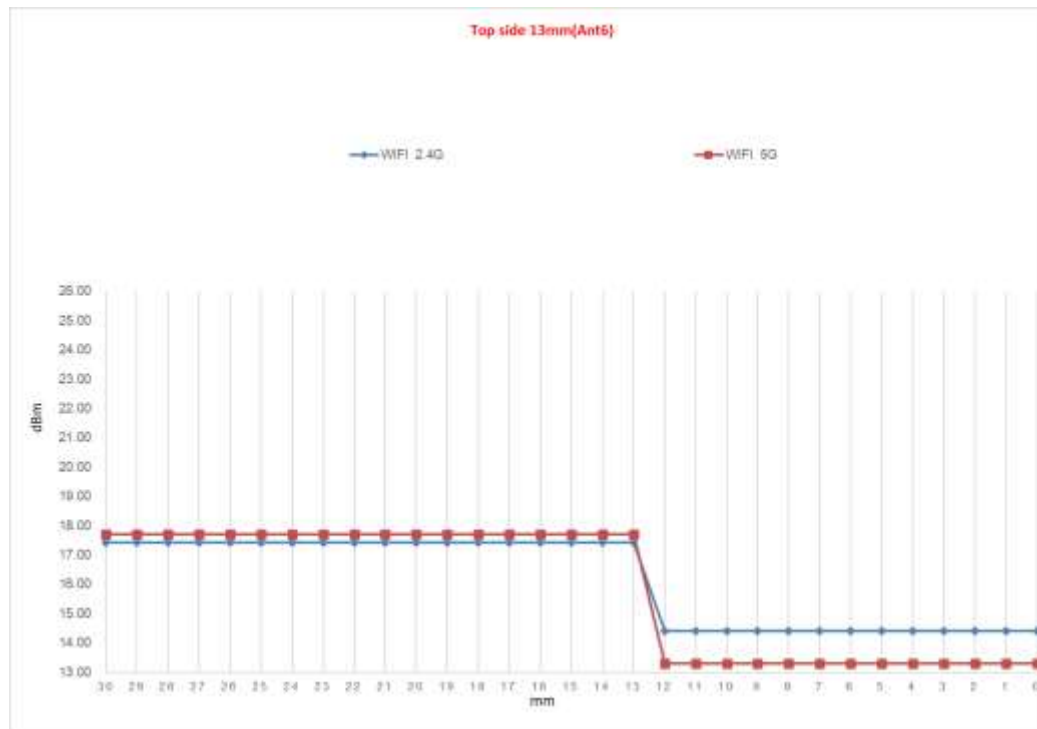
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For 0mm Ant6







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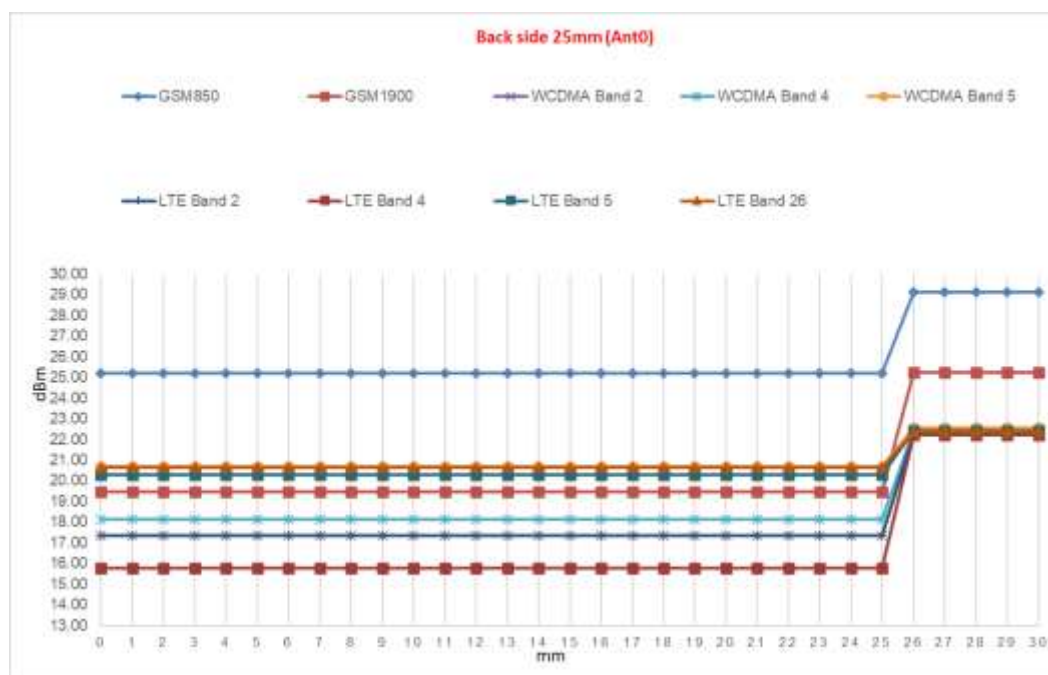
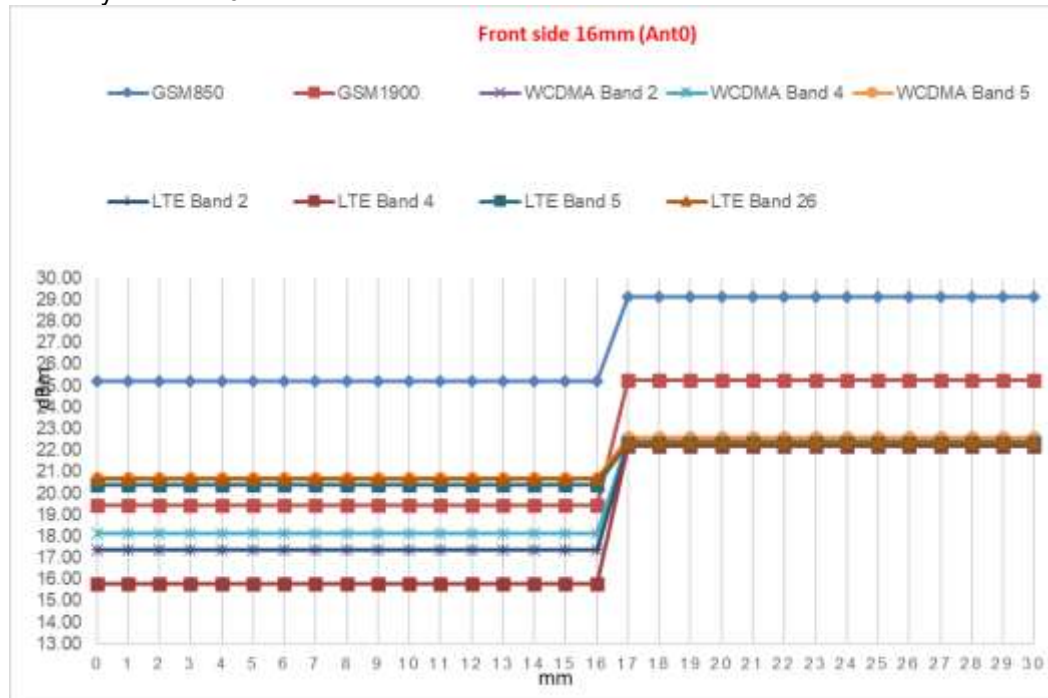
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- DUT Moving Away(Release) from the Phantom

Body worn:

For body worn Ant0



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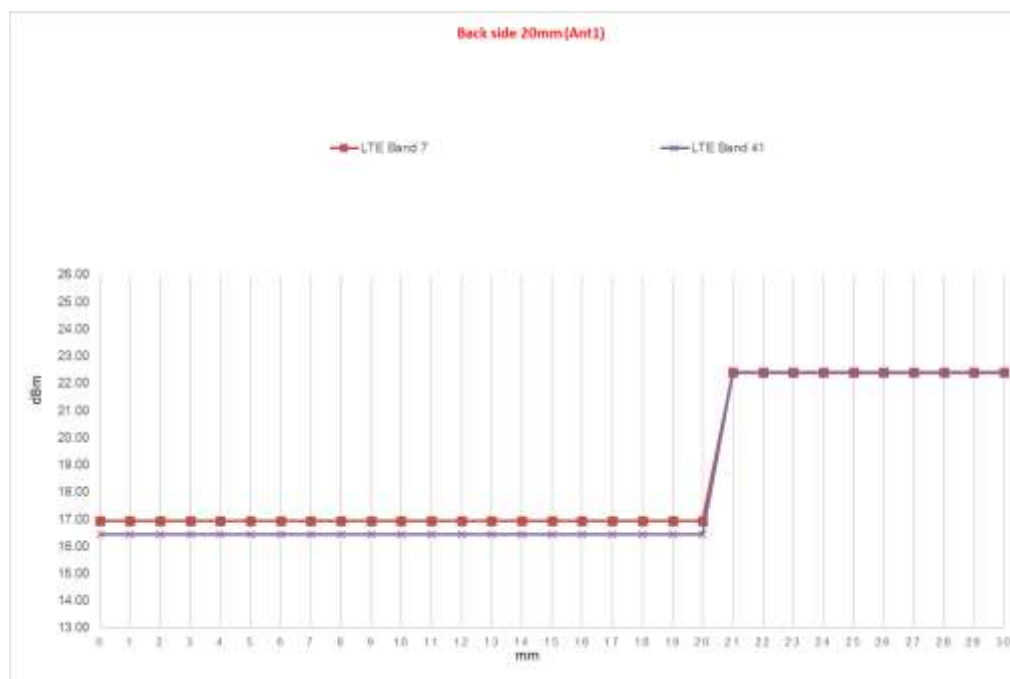
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SZSAR-TRF-01 Rev. A/2

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Page: 58 of 157

For body worn Ant1



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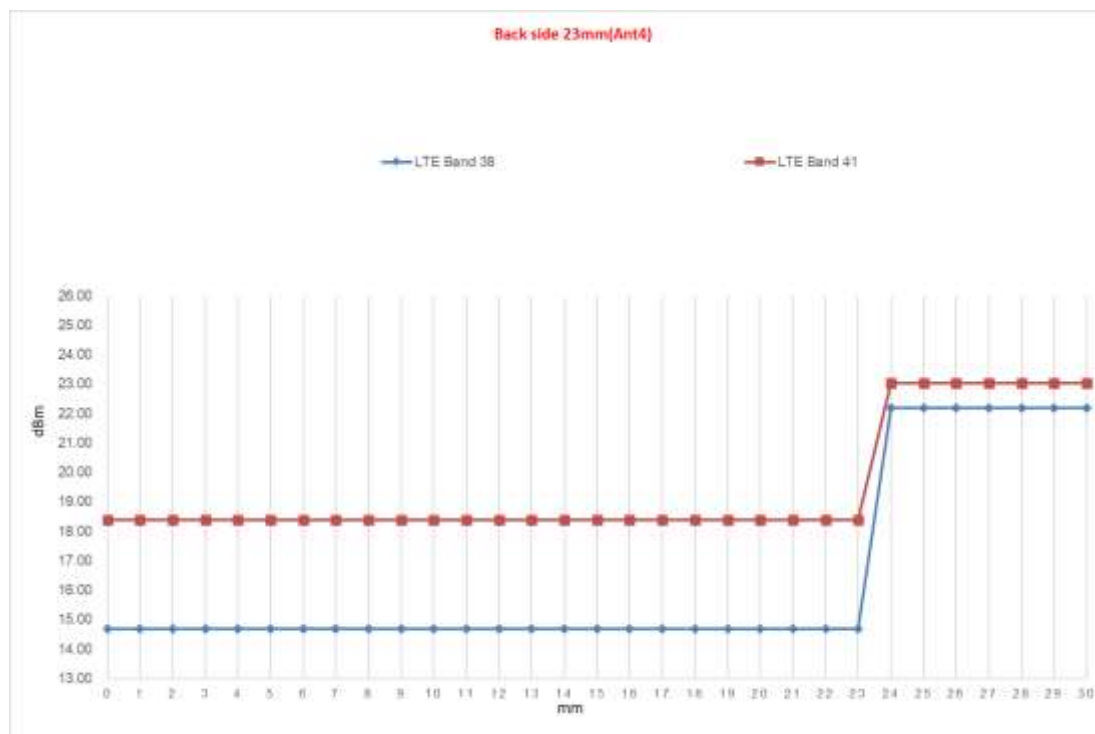
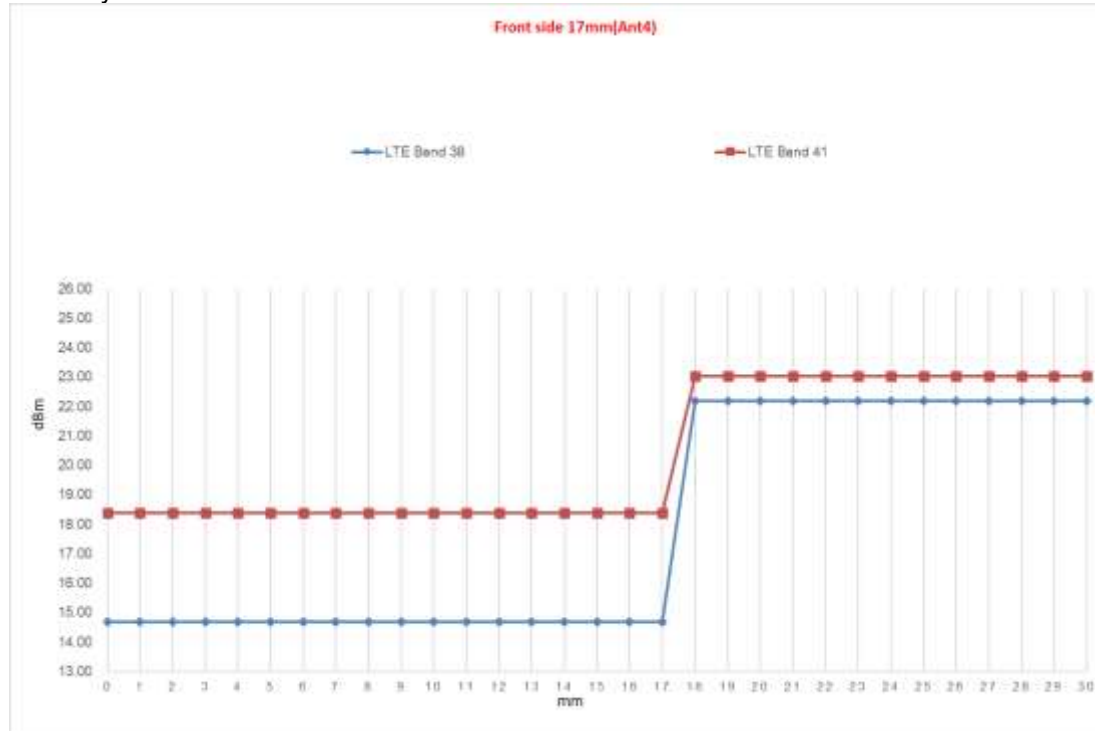
For body worn Ant2



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For body worn Ant4



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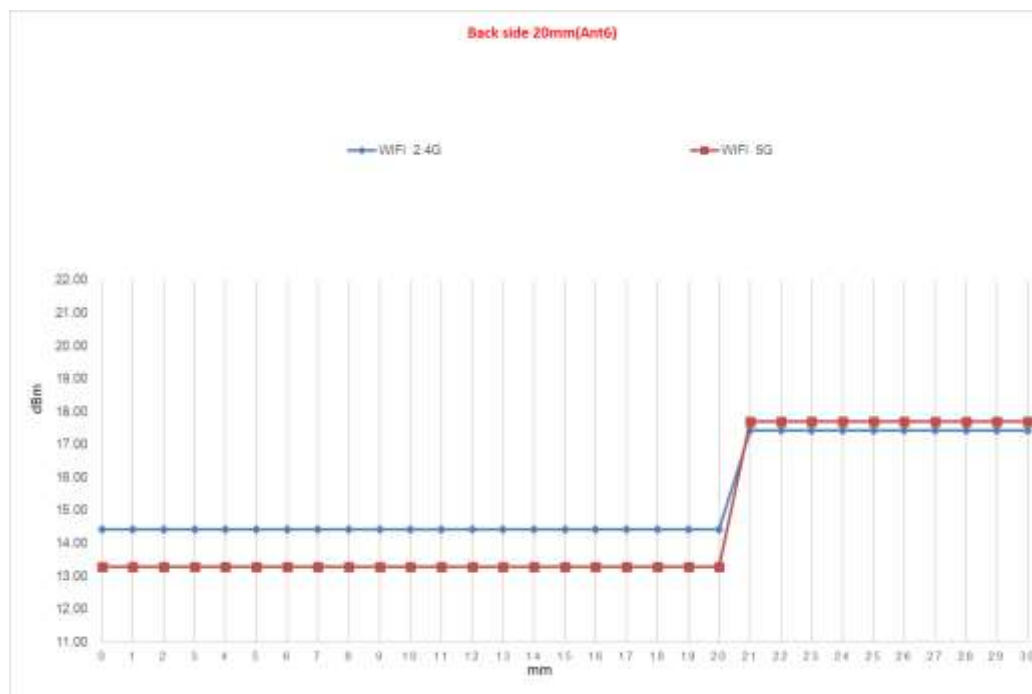
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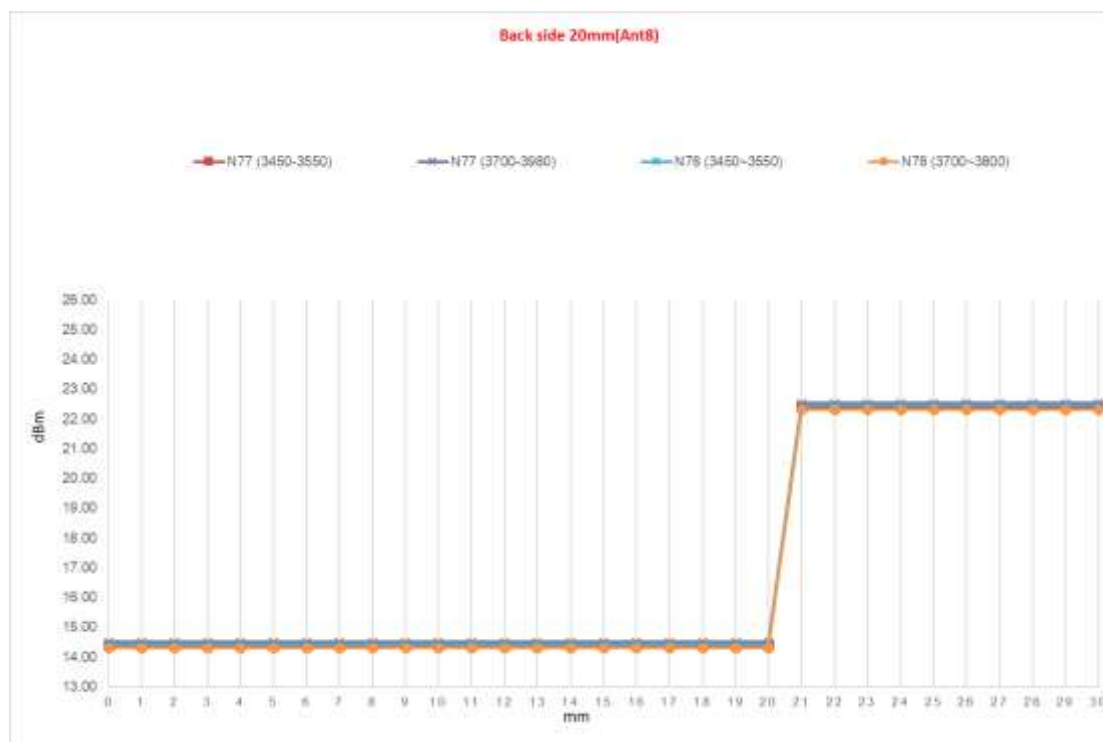
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For body worn Ant8



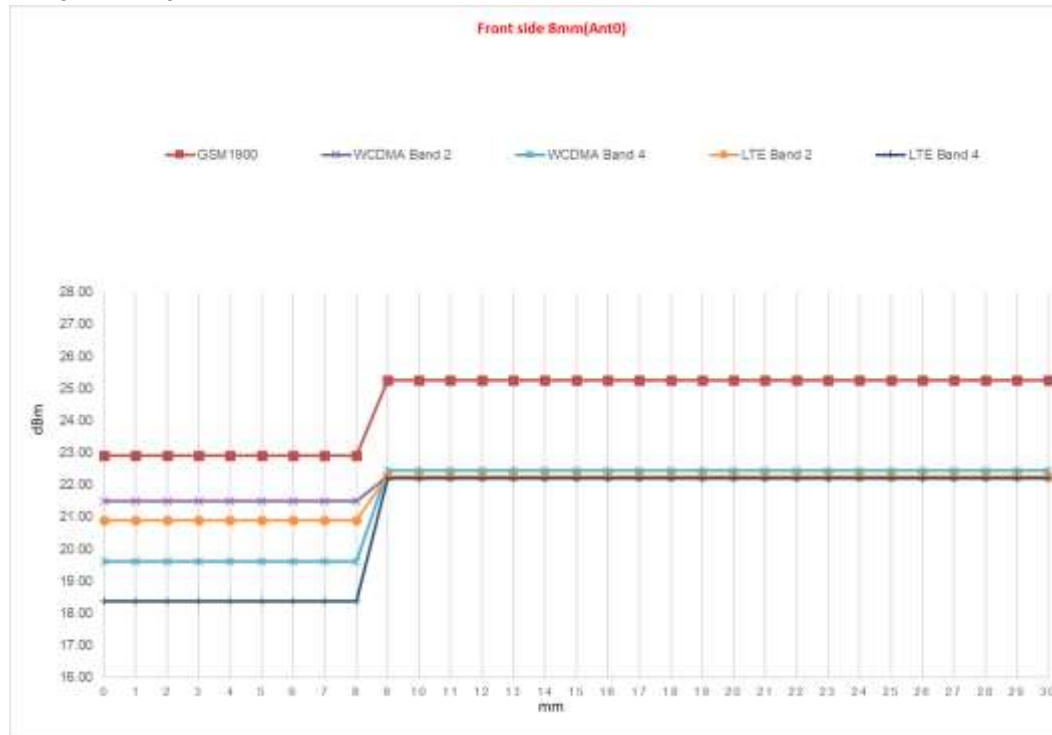
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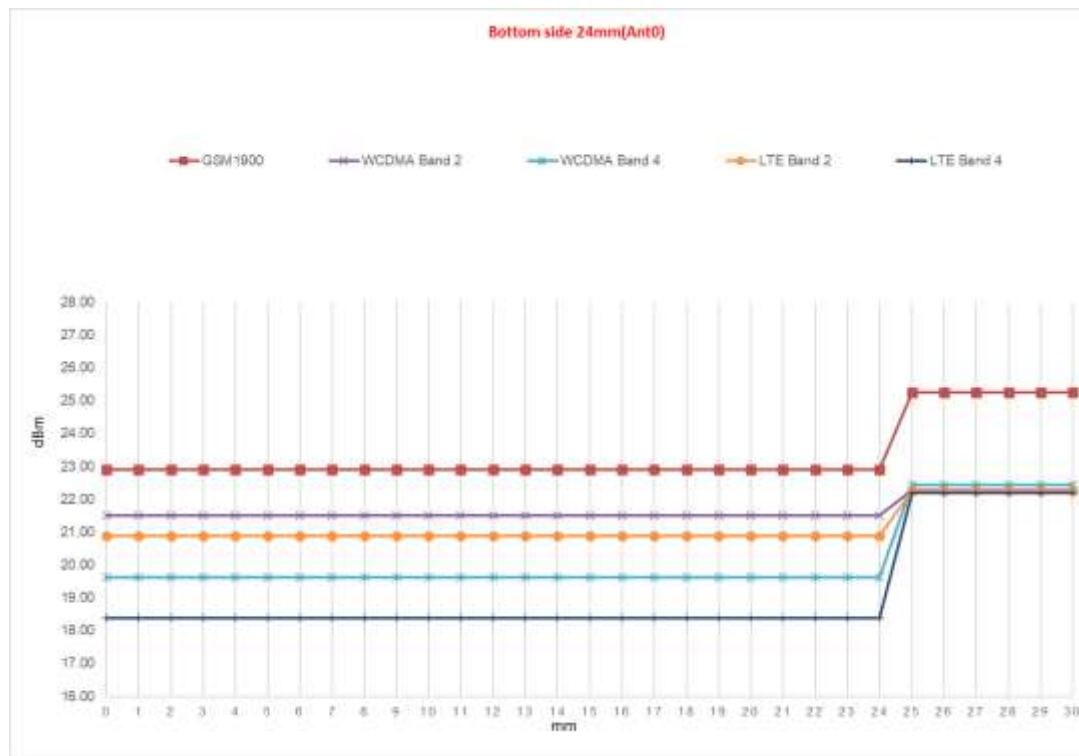
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Extremity :
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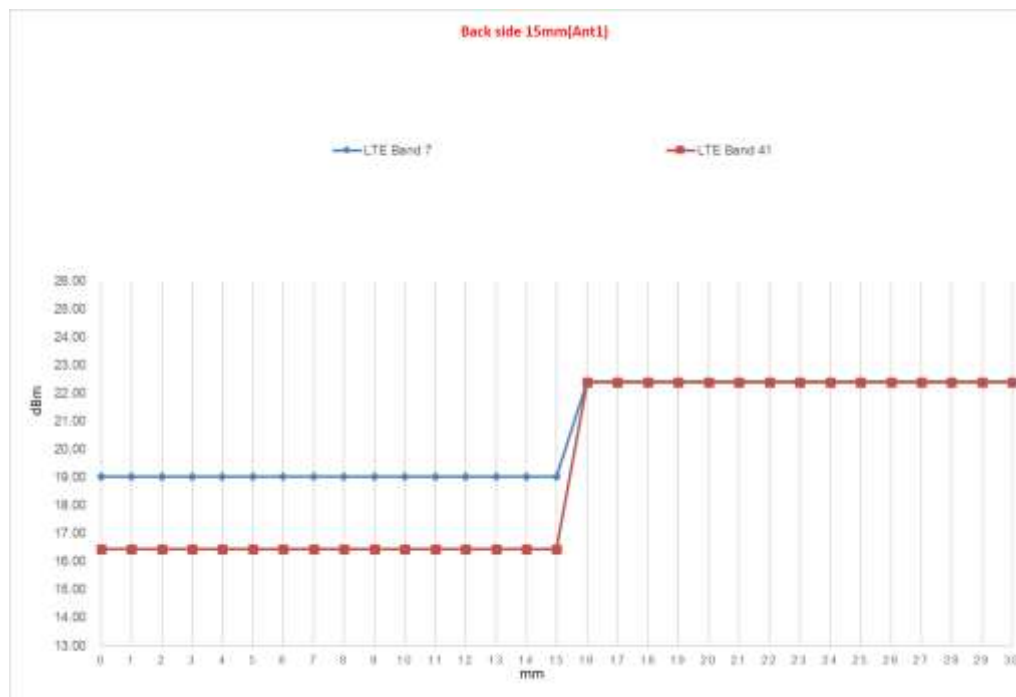
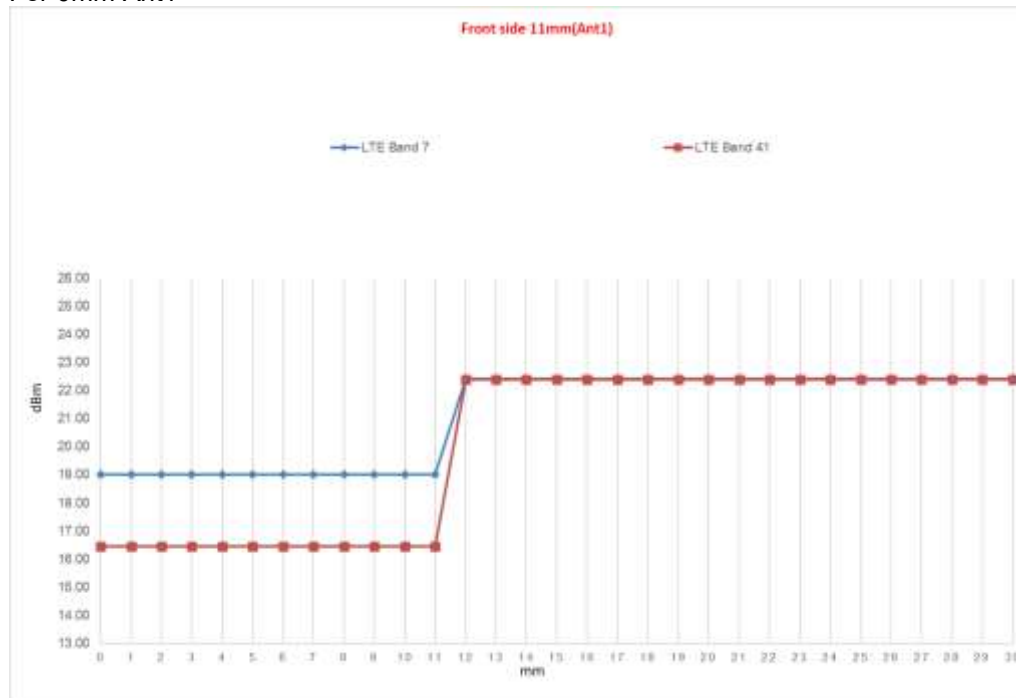


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For 0mm Ant1

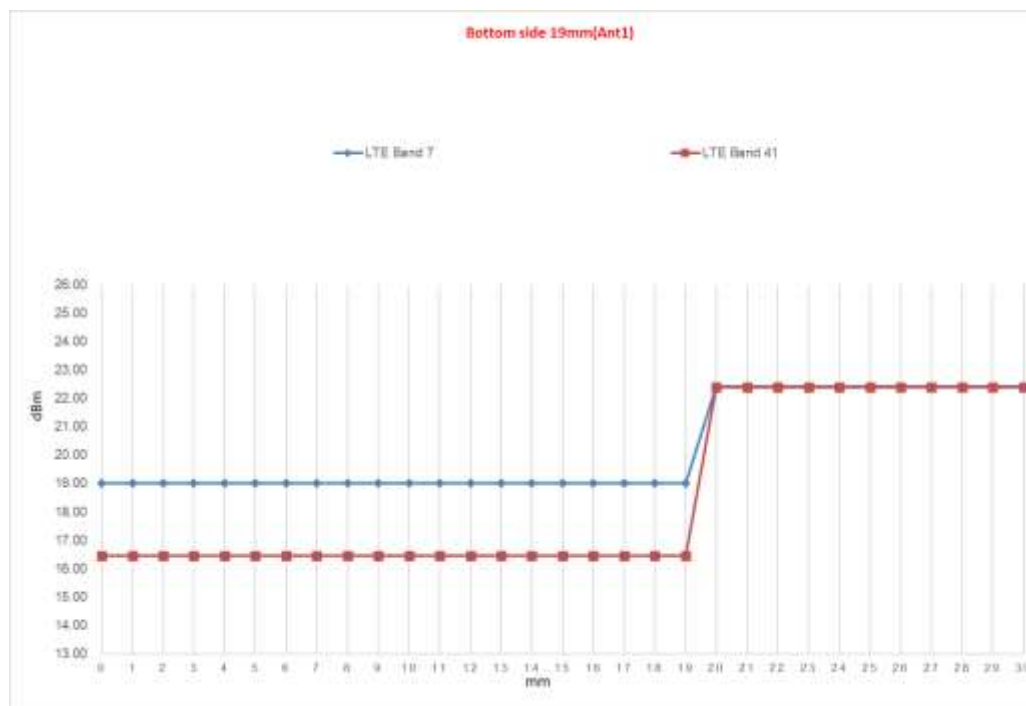
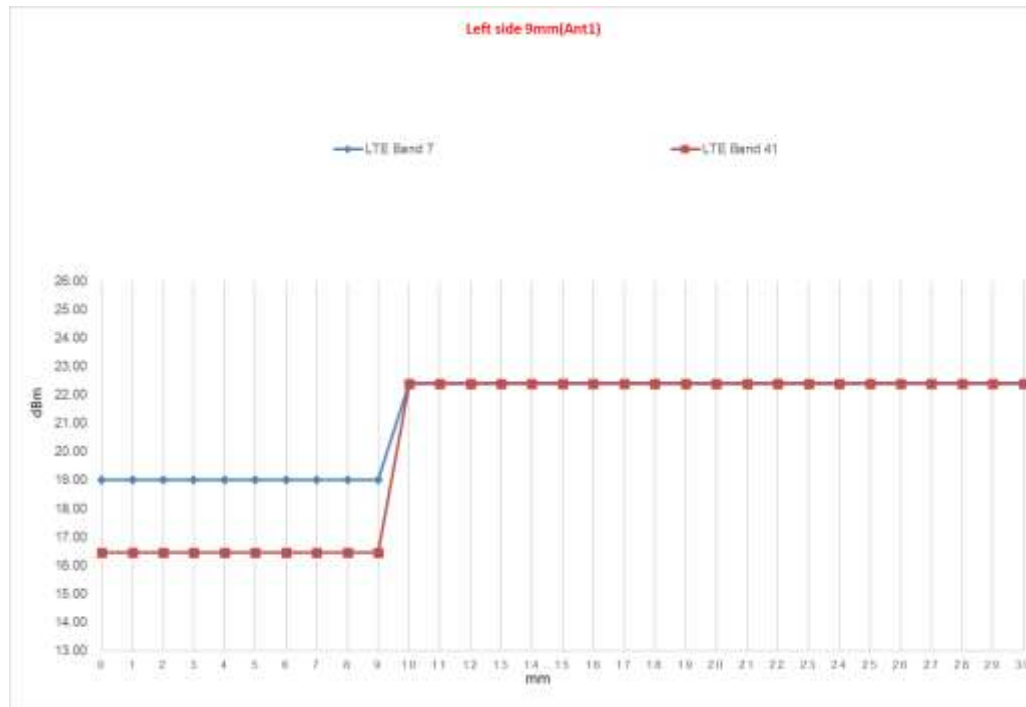


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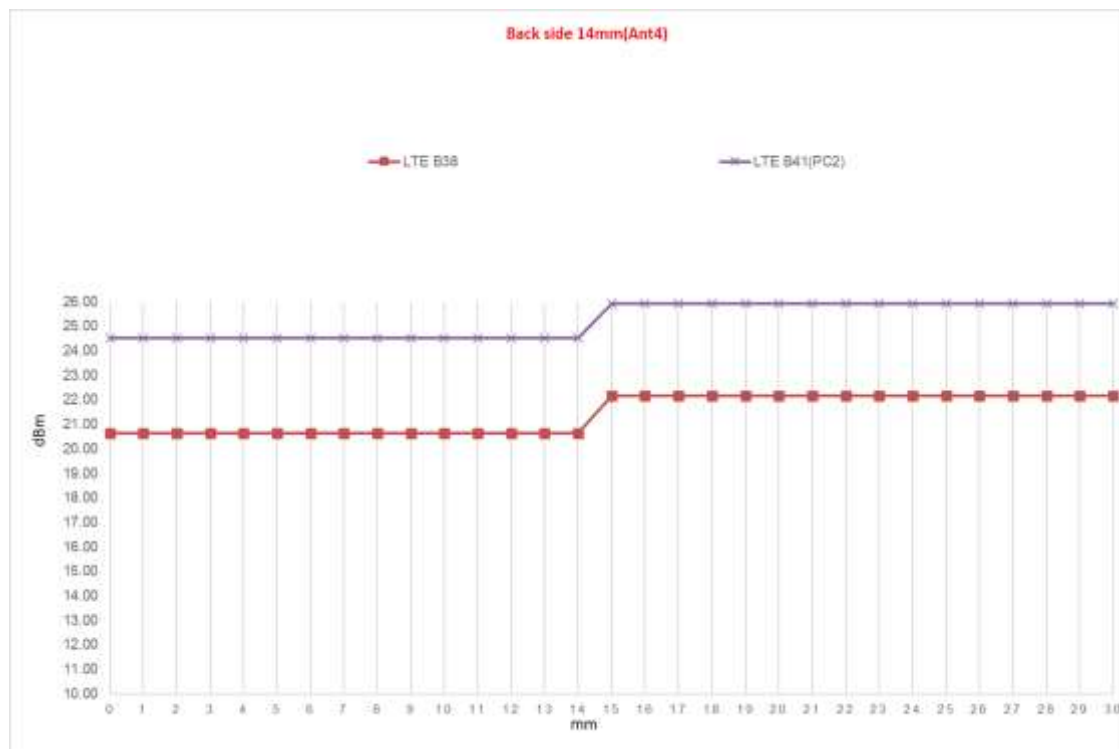
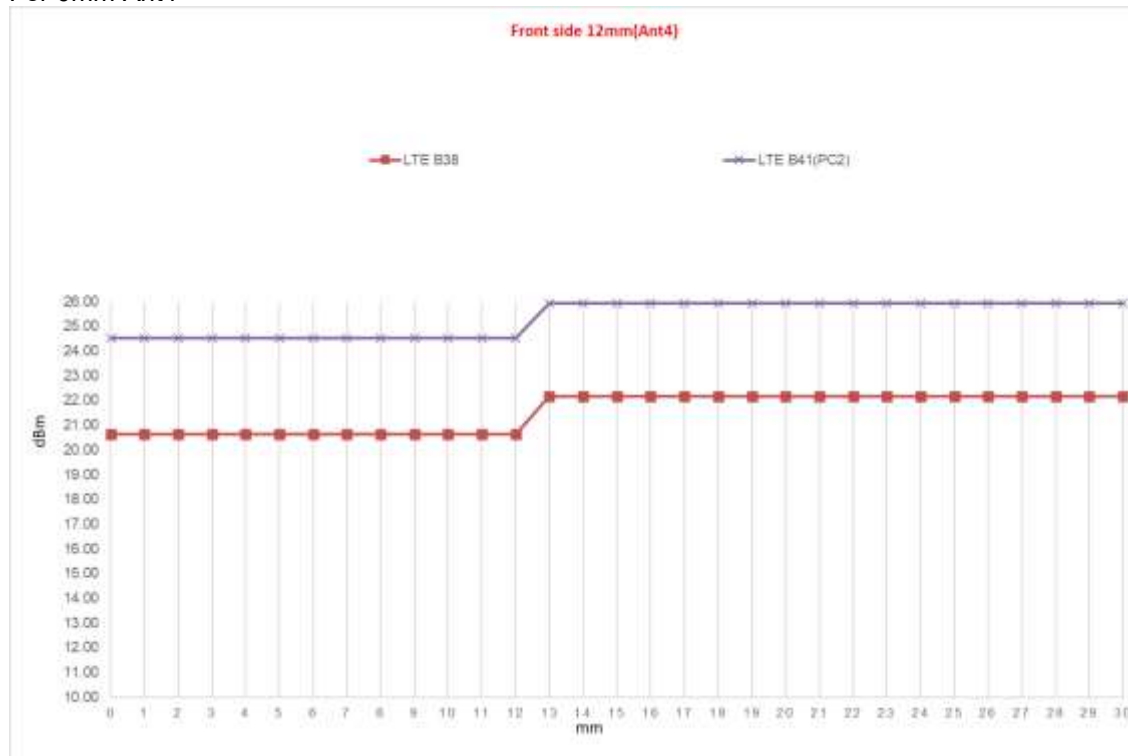
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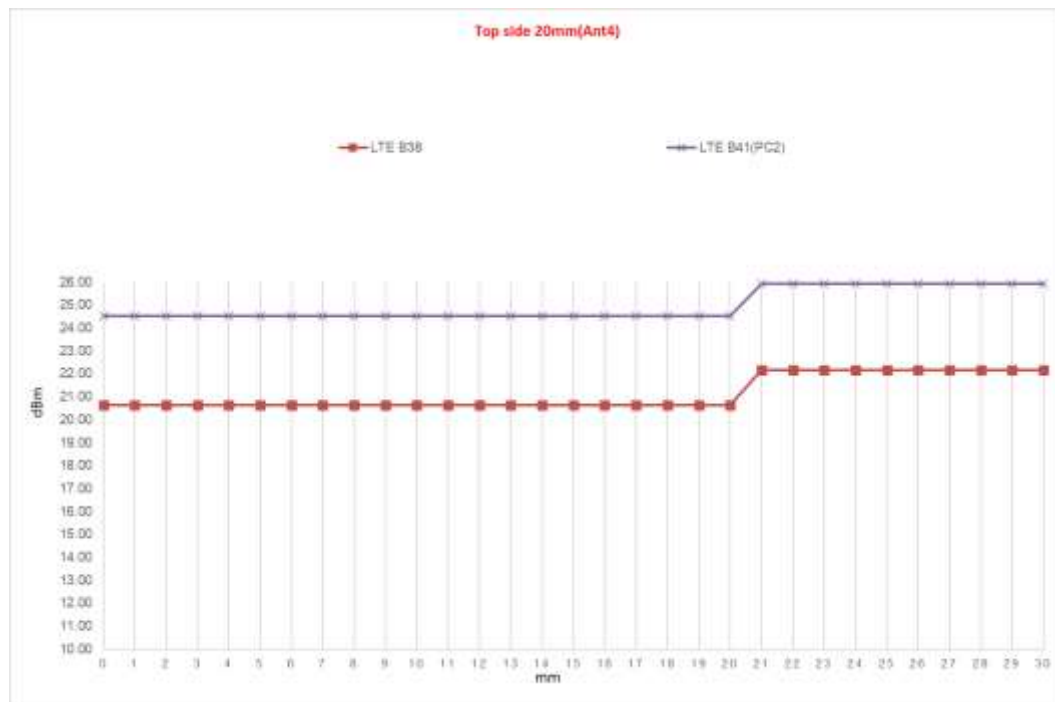
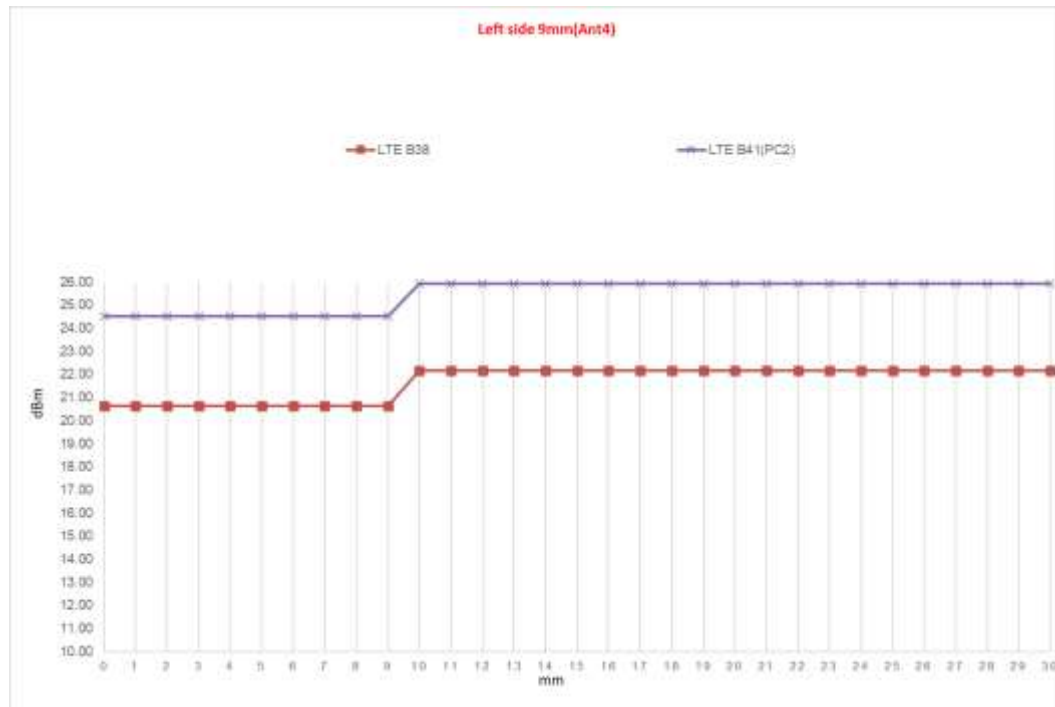
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For 0mm Ant4



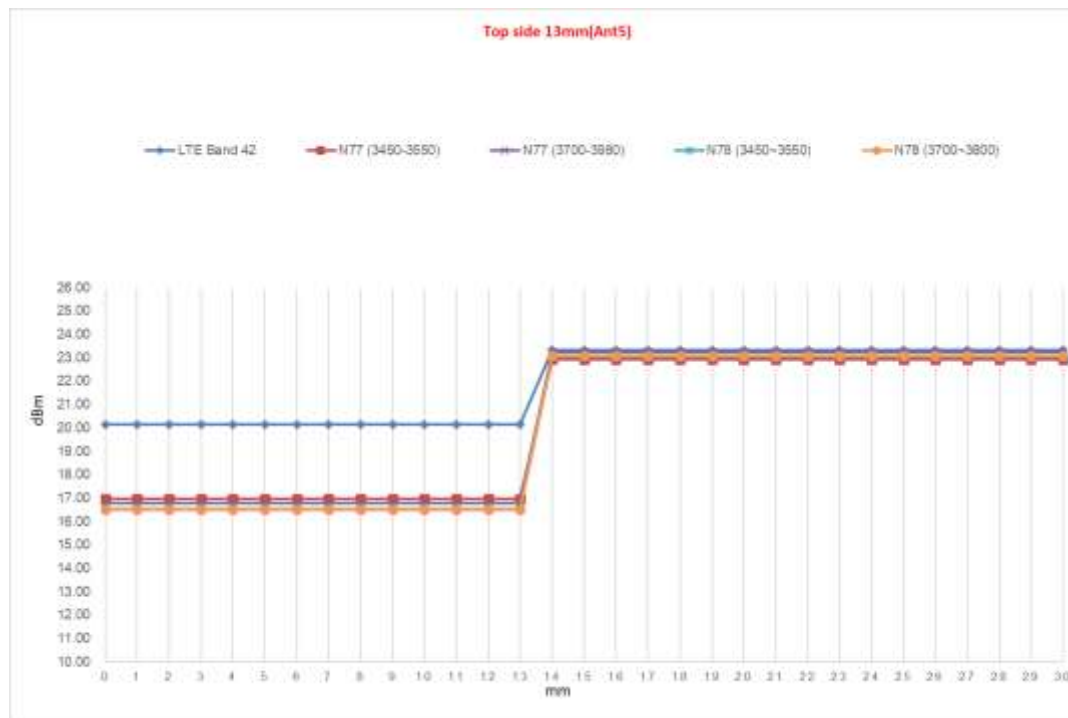
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For 0mm Ant5





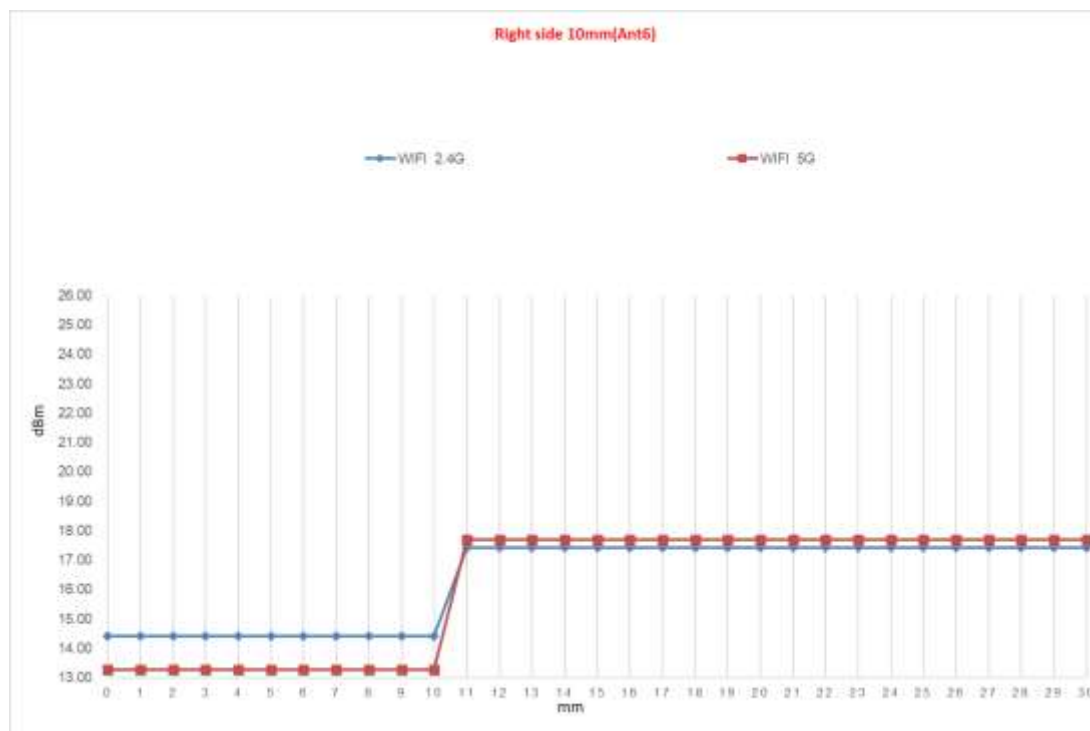
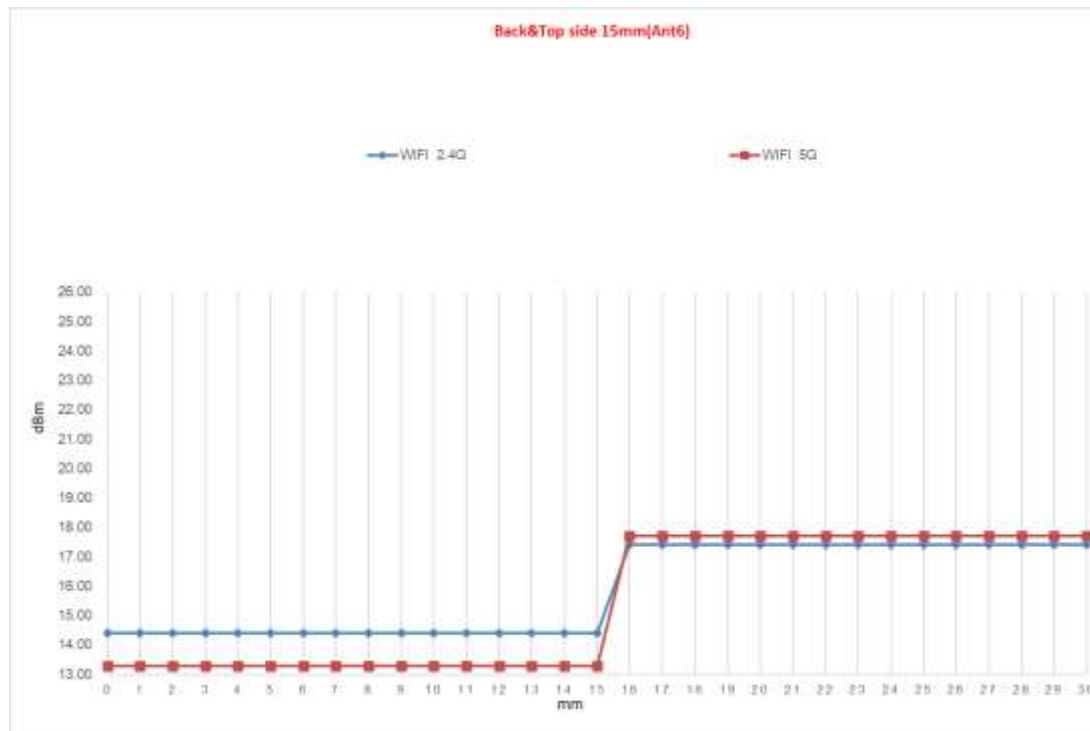
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5.4.2 Proximity sensor coverage

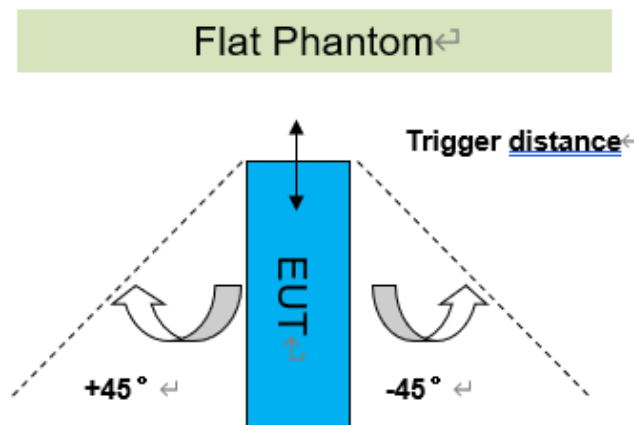
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user, but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage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

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

5.4.3 Device tilt angle influences on proximity sensor triggering

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

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



Summary of Tablet Tilt Angle Influence on Proximity Sensor Triggering for Edge Side													
Band (MHz)	Minimum trigger distance	Minimum trigger distance at which power reduction was maintained over $\pm 45^\circ$	Power Reduction Status										
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
Ant0: GSM:850/1900 WCDMA:B2/4/5 LTE:B2/4/5/26/12/17	Right Side 5mm Bottom Side 17mm	Right Side 5mm Bottom Side 17mm	on	on	on	on	on	on	on	on	on	on	on
Ant 1: LTE:B7/41 NR:N77/78	Left Side 7mm Bottom Side 14mm	Left Side 7mm Bottom Side 14mm	on	on	on	on	on	on	on	on	on	on	on
Ant 4: LTE:B38/41	Left Side 6mm Top Side 15mm	Left Side 6mm Top Side 15mm	on	on	on	on	on	on	on	on	on	on	on
Ant 5: LTE:B42 NR:N77/78	Top Side 9mm	Top Side 9mm	on	on	on	on	on	on	on	on	on	on	on
Ant 6: WiFi:2.4G/5G	Right Side 5mm Top Side 13mm	Right Side 5mm Top Side 13mm	on	on	on	on	on	on	on	on	on	on	on

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 MQ+ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose					
Head Tissue Simulate Liquid (HBBL600-10000V6) 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 1 : 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 $22 \pm 2^\circ\text{C}$.

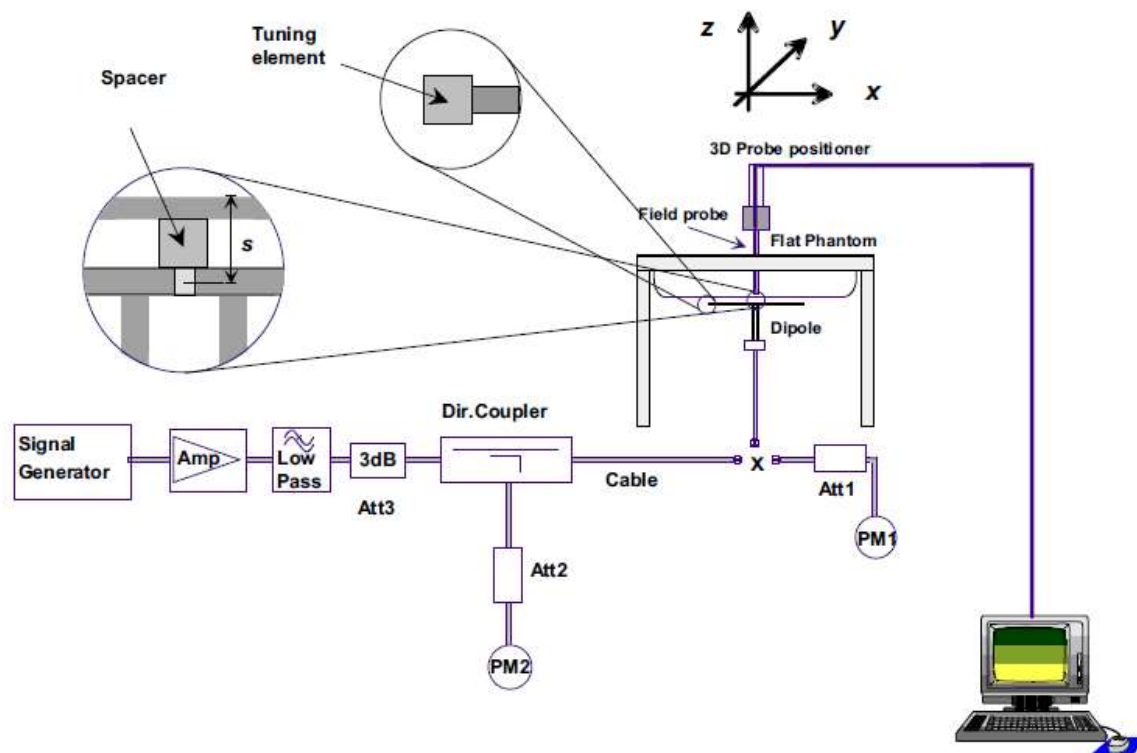
Measurement for Tissue Simulate Liquid for System check									
Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue ($\pm 5\%$)		Deviation (Within $\pm 5\%$)		Liquid Temp. ($^\circ\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
750 Head	750	42.399	0.882	41.90	0.89	1.19%	-0.90%	22.3	2026/2/25
835 Head	835	43.113	0.915	41.50	0.90	3.89%	1.67%	22.0	2026/2/26
835 Head	835	43.143	0.916	41.50	0.90	3.96%	1.78%	22.2	2026/2/27
1750 Head	1750	38.723	1.323	40.10	1.37	-3.43%	-3.43%	21.8	2026/2/28
1750 Head	1750	38.823	1.329	40.10	1.37	-3.18%	-2.99%	22.2	2026/3/1
1900 Head	1900	40.727	1.441	40.00	1.40	1.82%	2.93%	21.9	2026/3/2
1900 Head	1900	40.777	1.443	40.00	1.40	1.94%	3.07%	22.3	2026/3/3
2450 Head	2450	38.759	1.832	39.20	1.80	-1.13%	1.78%	22.5	2026/3/4
2600 Head	2600	39.726	1.967	39.00	1.96	1.86%	0.36%	22.0	2026/3/5
2600 Head	2600	39.756	1.976	39.00	1.96	1.94%	0.82%	22.3	2026/3/6
2600 Head	2600	39.526	1.938	39.00	1.96	1.35%	-1.12%	21.8	2026/3/7
3500 Head	3500	38.458	2.980	37.90	2.91	1.47%	2.41%	21.9	2026/2/28
3500 Head	3500	38.395	2.970	37.90	2.91	1.31%	2.06%	22.4	2026/3/2
3500 Head	3500	38.409	2.973	37.90	2.91	1.34%	2.16%	22.1	2026/3/5
3700 Head	3700	37.679	3.167	37.70	3.12	-0.06%	1.51%	22.3	2026/3/3
3700 Head	3700	37.693	3.170	37.70	3.12	-0.02%	1.60%	22.0	2026/3/6
3900 Head	3900	36.969	3.386	37.50	3.32	-1.42%	1.99%	21.8	2026/3/4
3900 Head	3900	36.983	3.389	37.50	3.32	-1.38%	2.08%	22.3	2026/3/7
5250 Head	5250	37.054	4.767	35.90	4.71	3.21%	1.21%	22.0	2026/3/8
5600 Head	5600	36.102	5.157	35.50	5.07	1.70%	1.72%	22.1	2026/3/9
5750 Head	5750	35.738	5.330	35.40	5.22	0.95%	2.11%	22.2	2026/3/10

Table 2 : 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 (3GHz or higher) 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) 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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6.2.2 Summary System Check 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	1.97	1.40	7.88	5.60	8.42	5.49	-6.41%	2.00%	22.3	2026/2/25
D835V2_Head	2.49	1.64	9.96	6.56	9.67	6.43	3.00%	2.02%	22.0	2026/2/26
D835V2_Head	2.53	1.67	10.12	6.68	9.67	6.43	4.65%	3.89%	22.2	2026/2/27
D1750V2_Head	8.30	4.41	33.20	17.64	36.20	19.10	-8.29%	-7.64%	21.8	2026/2/28
D1750V2_Head	8.88	4.43	33.32	17.72	36.20	19.10	-7.96%	-7.23%	22.2	2026/3/1
D1900V2_Head	10.6	5.42	42.40	21.68	39.90	21.10	6.27%	2.75%	21.9	2026/3/2
D1900V2_Head	10.6	5.43	42.40	21.72	39.90	21.10	6.27%	2.94%	22.3	2026/3/3
D2450V2_Head	14.00	6.43	56.00	25.72	51.90	24.50	7.90%	4.98%	22.5	2026/3/4
D2600V2_Head	12.80	6.64	51.20	26.56	55.30	24.70	-7.41%	7.53%	22.0	2026/3/5
D2600V2_Head	14.60	6.68	58.40	26.72	55.30	24.70	5.61%	8.18%	22.3	2026/3/6
D2600V2_Head	14.20	6.49	56.80	25.96	55.30	24.70	2.71%	5.10%	21.8	2026/3/7
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_3.5GHz_Head	6.75	2.69	67.50	26.90	65.80	25.00	2.58%	7.60%	21.9	2026/2/28
D3500V2_3.5GHz_Head	7.13	2.74	71.30	27.40	65.80	25.00	8.36%	9.60%	22.4	2026/3/2
D3500V2_3.5GHz_Head	7.00	2.68	70.00	26.80	65.80	25.00	6.38%	7.20%	22.1	2026/3/5
D3700V2_Head	7.10	2.70	71.00	27.00	67.30	24.70	5.50%	9.31%	22.3	2026/3/3
D3700V2_Head	6.86	2.61	68.60	26.10	67.30	24.70	1.93%	5.67%	22.0	2026/3/6
D3900V2_3.9GHz_Head	7.27	2.56	72.70	25.60	67.00	23.50	8.51%	8.94%	21.8	2026/3/4
D3900V2_3.9GHz_Head	7.15	2.50	71.50	25.00	67.00	23.50	6.72%	6.38%	22.3	2026/3/7
D5GHzV2_5.25G_Head	7.49	2.15	74.90	21.50	79.00	21.80	-5.19%	-1.38%	22.0	2026/3/8
D5GHzV2_5.6G_Head	8.49	2.42	84.90	24.20	81.60	22.50	4.04%	7.56%	22.1	2026/3/9
D5GHzV2_5.75G_Head	7.59	2.18	75.90	21.80	78.30	21.30	-3.07%	2.35%	22.2	2026/3/10

Table 3 : 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 MediaTek Time-averaged for RF Exposure compliance

The RF exposure limit is defined based on time-averaged RF exposure. The product implements MediaTek Time-averaged SAR (TA-SAR) feature which controls the instantaneous transmit power for EUT transmitter to ensure the product in compliance with RF exposure limit over a defined time window. 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.

Please refer to part2 report for more details.



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7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM frequency band, a communication link is set up with a base station by air link. Using Radio Communication Analyzer, the power lever is set to “5” or “0” in SAR of GSM frequency band. The tests in the GSM frequency band are performed in the mode of GPRS/EGPRS function.

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.

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

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

Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8).

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

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



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

SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 81 of 157

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	β_d	$\beta_d(SF)$	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/2

Report No.: SZCR260200054301

Page: 82 of 157

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 4 : 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 5 : HSDPA UE category

b) HSUPA

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



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Sub-test ^c	β_{c^*}	β_{d^*}	β_d (SF) ^c	β_c/β_d	$\beta_{hs}^{(1)}$ ^c	β_{acc}	β_{ed}	β_{c^*} (SF) ^c	β_{ed^*} (code) ^c	CM(2) ^c (dB) ^c	MP R _x (dB) ^c	AG ⁽⁴⁾ Inde _x ^c	E-TFC I ^c
1 ^c	11/15 ^{(3)c}	15/15 ^{(3)c}	64 ^c	11/15 ^{(3)c}	22/15 ^c	209/225 ^c	1039/225 ^c	4 ^c	1 ^c	1.0 ^c	0.0 ^c	20 ^c	75 ^c
2 ^c	6/15 ^c	15/15 ^c	64 ^c	6/15 ^c	12/15 ^c	12/15 ^c	94/75 ^c	4 ^c	1 ^c	3.0 ^c	2.0 ^c	12 ^c	67 ^c
3 ^c	15/15 ^c	9/15 ^c	64 ^c	15/9 ^c	30/15 ^c	30/15 ^c	$\beta_{ed1}:47/15^c$ $\beta_{ed2}:47/15^c$	4 ^c	2 ^c	2.0 ^c	1.0 ^c	15 ^c	92 ^c
4 ^c	2/15 ^c	15/15 ^c	64 ^c	2/15 ^c	4/15 ^c	2/15 ^c	56/75 ^c	4 ^c	1 ^c	3.0 ^c	2.0 ^c	17 ^c	71 ^c
5 ^c	15/15 ^{(4)c}	15/15 ^{(4)c}	64 ^c	15/15 ^{(4)c}	30/15 ^c	24/15 ^c	134/15 ^c	4 ^c	1 ^c	1.0 ^c	0.0 ^c	21 ^c	81 ^c

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, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference^c

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 $\beta_d = 15/15^c$

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 $\beta_d = 15/15^c$

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^c

Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.^c

Table 6 : 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 7 : 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/2

Report No.: SZCR260200054301

Page: 84 of 157

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 E_c/I_{or}	dB	-10
P-CCPCH and SCH E_c/I_{or}	dB	-12
PICH E_c/I_{or}	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH E_c/I_{or}	dB	-5
OCNS E_c/I_{or}	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 8 : settings of required H-Set 12 QPSK acc. To 3GPP 34.121

Note:

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



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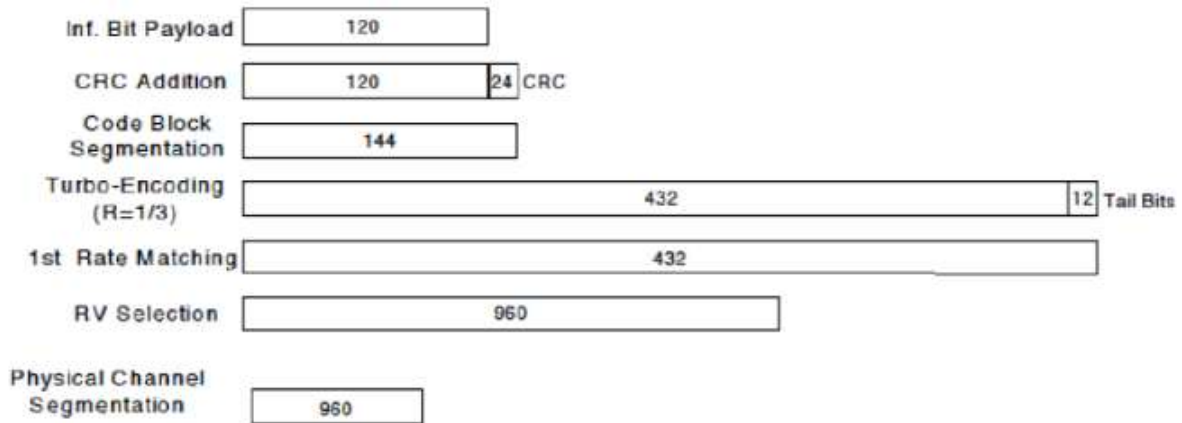


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

Sub-test ^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, DPCCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.
 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, TF1) to $\beta_c=11/15$ and $\beta_d=15/15$

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

Note:

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

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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 86 of 157

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+} (Note 3)	β_d	β_{HS+} (Note 1)	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: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$.

Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).

Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ 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.

5) 3G SAR Test Reduction Procedure

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ 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.



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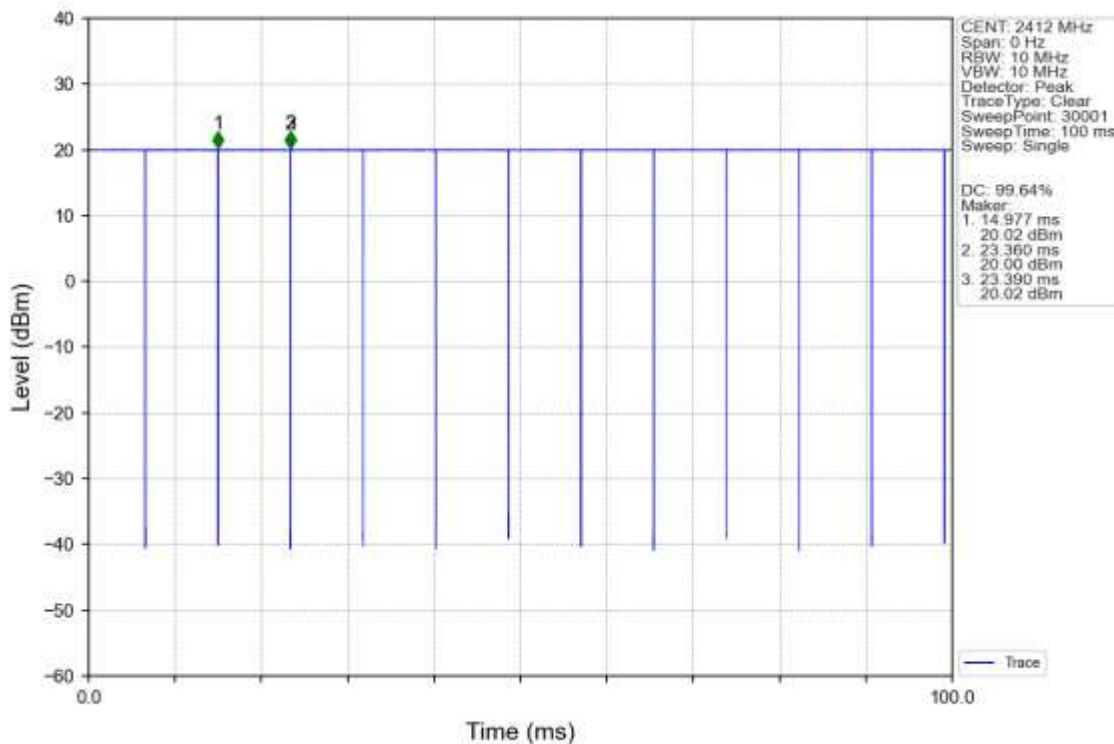
7.2.3 WIFI Test Configuration

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

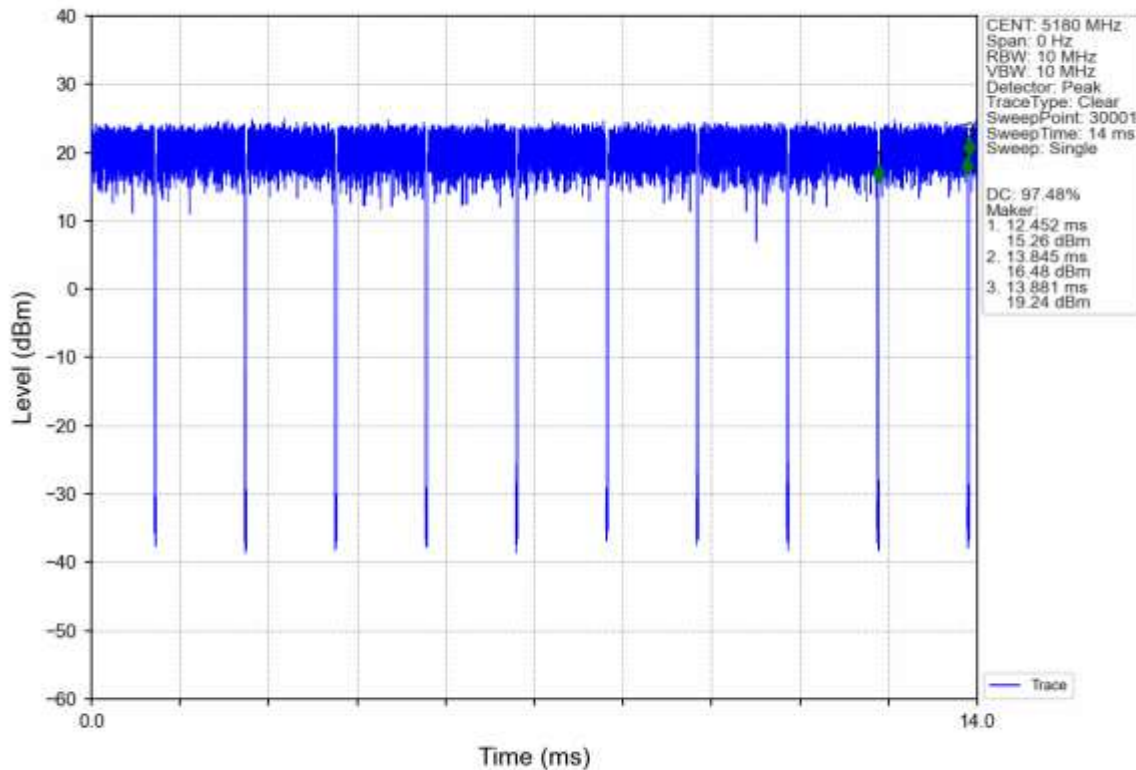
1) Wi-Fi 2.4GHz 802.11b:

Duty cycle= 99.64%



2) Wi-Fi 5GHz 802.11a:

Duty cycle= 97.48%



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.



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 802.11g/n OFDM configurations are described in following.

• 802.11b DSSS SAR Test Requirements

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

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

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

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

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

• SAR Test Requirements for OFDM configurations

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



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 applies, all channels that operate at 5.60 – 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

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



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

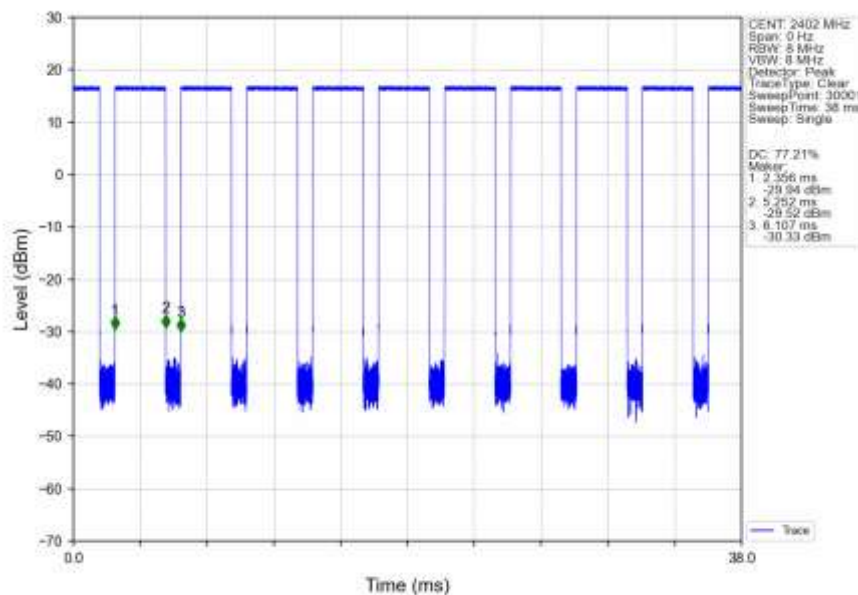
When SAR measurement is required for 802.11 a/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap 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.



7.2.4 BT Test Configuration

For the Bluetooth SAR tests, a communication link is set up with the test mode software for BT mode test. Bluetooth USES frequency hopping technology to divide the transmitted data into packets and transmit the packets respectively through 79 designated Bluetooth channels, frequency hops at 1600 hops/second per the Bluetooth standard, the EUT is operated at the RF continuous emission mode.

BT DH5 Duty Cycle= 77.21%



7.2.5 LTE Test Configuration

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

TDD LTE test consideration

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

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

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

Frame structure type 2:

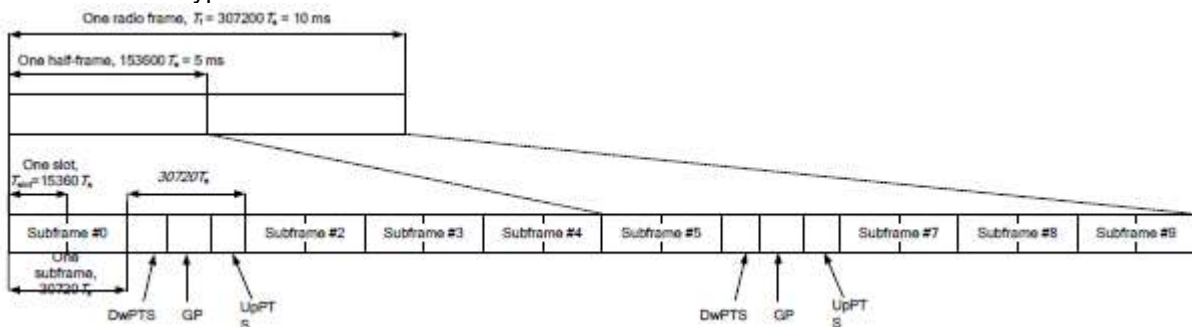


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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			7680.Ts	4384.Ts	5120.Ts
5	6592.Ts	4384.Ts	5120.Ts	20480.Ts		



6	19760.Ts			23040.Ts		
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.

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	3	5	10	15	20	



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 97 of 157

	MHz	MHz	MHz	MHz	MHz	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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7.2.6 NR Band Test Configuration

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

Band	n77	n78
Max Duty Cycle	100%	100%

Band	Max SCS	Bandwidth												
		5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz	70MHz	80MHz	90MHz	100MHz
n77	30 kHz	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n78	30 kHz	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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

- For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is $> \text{not } \frac{1}{2} \text{ dB}$ 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.
- 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.
- SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
- QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are $\leq 0.8 \text{ W/kg}$. 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.
- 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.
- 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.

3. 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 and Table 6.2.2 -2.



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 99 of 157

Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

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 26 dBm.

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.

Table 6.2.2-2 Maximum power reduction (MPR) for power class 2

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



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 100 of 157

4. 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.

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

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.

6. For EN-DC SAR

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

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 7	LTE Band 41	
		ANT1	ANT1	ANT4
n77	ANT5		√	
	ANT2			
	ANT8			
	ANT1			
n78	ANT5	√		
	ANT2			
	ANT8			
	ANT1			



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8 Test Result

8.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix D

Note:

- 1) The test device is a smart phone, and the diagonal distance of this device is $\geq 160\text{mm}$ but $\leq 200\text{mm}$, so it is a Phablet per KDB 648474 D04.
- 2) The distance between the antennas and the sides of the EUT show as below table, when the antenna-to-edge distance is greater than 25mm, such position does not need to be SAR tested.

Antenna to edge distance						
Antenna	Front Side	Back Side	Left Side	Right Side	Top Side	Bottom Side
ANT0	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$
ANT1	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$
ANT2	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$
ANT4	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
ANT5	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
ANT6	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
ANT8	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$

8.2 Measurement of RF Conducted Power

8.2.1 RF Conducted Power reduction specification

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

- 1) A fixed level power reduction is applied for some frequency bands when hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.
- 2) A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions.
- 3) 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.
- 4) The proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance.

8.2.2 RF Conducted Power Data

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



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8.3 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) 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 $\geq 200\text{ MHz}$.
- 3) The device does not support DTM function.
- 4) For WiFi 5G,U-NII-2A and U-NII-2C band does not support hotspot function.
- 5) For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing; therefore, the requirement for H, M, and L channels may not fully apply.
- 6) For WiFi SAR test, as the highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than SAR measurement mode, therefore the adjusted SAR is $\leq 1.2\text{ W/kg}$ for other 802.11 modes, SAR test for the other 802.11 modes are not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg , SAR test for the other 802.11 modes are also not required.
- 7) NFC is different from the working scenario of WWAN/WIFI(Head/Body-worn/Hotspot) and does not participate in the simultaneous transmission.
- 8) According to TCB workshop (Overlapping LTE Bands): SAR in LTE band 17 is covered by LTE band 12. SAR in LTE band 5 is covered by LTE band 26. SAR in NR Band n78 is covered by NR Band n77. 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.
- 9) The simultaneous transmission is reduced by XdB (the detailed power reduced can be referred to Conducted Power Appendix E), therefore, those SAR of simultaneous transmission mode are evaluated based on standalone SAR results.
- 10) The NFC SAR test data can be refer to SAR report for NFC which Report No. SUCR260200010901



8.3.1 SAR Result of GSM850

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 ECI 2											
Left cheek	GPRS 3TS	190/836.6	1:2.77	0.265	0.274	-0.02	29.15	31.00	1.531	0.406	22.1
Left tilted	GPRS 3TS	190/836.6	1:2.77	0.133	0.139	0.09	29.15	31.00	1.531	0.204	22.1
Right cheek	GPRS 3TS	190/836.6	1:2.77	0.408	0.317	0.04	29.15	31.00	1.531	0.625	22.1
Right tilted	GPRS 3TS	190/836.6	1:2.77	0.253	0.182	0.17	29.15	31.00	1.531	0.387	22.1
Right cheek with Sample2	GPRS 3TS	190/836.6	1:2.77	0.397	0.270	0.03	29.15	31.00	1.531	0.608	22.1
Right cheek with Sample3	GPRS 3TS	190/836.6	1:2.77	0.376	0.266	0.09	29.15	31.00	1.531	0.576	22.1
Body worn Test data(Separate 5mm) Sensor on ECI 3											
Front side	GPRS 3TS	190/836.6	1:2.77	0.398	0.237	-0.13	25.19	26.50	1.352	0.538	22.1
Back side	GPRS 3TS	190/836.6	1:2.77	0.797	0.429	0.07	25.19	26.50	1.352	1.078	22.1
Back side	GPRS 3TS	128/824.2	1:2.77	0.827	0.440	-0.03	25.15	26.50	1.365	1.129	22.1
Back side-Repeated	GPRS 3TS	128/824.2	1:2.77	0.783	0.432	0.08	25.15	26.50	1.365	1.069	22.1
Back side	GPRS 3TS	251/848.8	1:2.77	0.716	0.387	-0.02	25.03	26.50	1.403	1.005	22.1
Back side with Sample2	GPRS 3TS	128/824.2	1:2.77	0.800	0.459	0.12	25.15	26.50	1.365	1.092	22.1
Back side with Sample3	GPRS 3TS	128/824.2	1:2.77	0.790	0.424	-0.11	25.15	26.50	1.365	1.078	22.1
Body worn Test data Sensor off ECI 4											
Front side 14mm	GPRS 3TS	190/836.6	1:2.77	0.320	0.223	-0.09	29.15	31.00	1.531	0.490	22.1
Back side 21mm	GPRS 3TS	190/836.6	1:2.77	0.335	0.228	-0.06	29.15	31.00	1.531	0.513	22.1
Hotspot Test data(Separate 5mm) ECI 7											
Front side	GPRS 3TS	190/836.6	1:2.77	0.398	0.237	-0.06	25.19	26.50	1.352	0.538	22.1
Back side	GPRS 3TS	190/836.6	1:2.77	0.797	0.429	-0.09	25.19	26.50	1.352	1.078	22.1
Right side	GPRS 3TS	190/836.6	1:2.77	0.280	0.176	0.09	25.19	26.50	1.352	0.379	22.1
Bottom side	GPRS 3TS	190/836.6	1:2.77	0.655	0.288	0.16	25.19	26.50	1.352	0.886	22.1
Back side	GPRS 3TS	128/824.2	1:2.77	0.827	0.440	-0.03	25.15	26.50	1.365	1.129	22.1
Back side-Repeated	GPRS 3TS	128/824.2	1:2.77	0.783	0.432	-0.04	25.15	26.50	1.365	1.069	22.1
Back side	GPRS 3TS	251/848.8	1:2.77	0.716	0.387	-0.19	25.03	26.50	1.403	1.005	22.1
Bottom side	GPRS 3TS	128/824.2	1:2.77	0.642	0.258	-0.06	25.15	26.50	1.365	0.876	22.0
Bottom side	GPRS 3TS	251/848.8	1:2.77	0.626	0.223	-0.18	25.03	26.50	1.403	0.878	22.0
Back side with Sample2	GPRS 3TS	128/824.2	1:2.77	0.800	0.459	0.12	25.15	26.50	1.365	1.092	22.1
Back side with Sample3	GPRS 3TS	128/824.2	1:2.77	0.790	0.424	-0.11	25.15	26.50	1.365	1.078	22.1
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) ECI 4											
Front side	GPRS 3TS	190/836.6	1:2.77	2.390	1.160	-0.08	29.15	31.00	1.531	1.776	21.8
Back side	GPRS 3TS	190/836.6	1:2.77	3.130	1.540	0.04	29.15	31.00	1.531	2.358	21.8
Bottom side	GPRS 3TS	190/836.6	1:2.77	4.180	1.830	-0.07	29.15	31.00	1.531	2.802	21.8
Back side	GPRS 3TS	128/824.2	1:2.77	3.800	1.710	0.05	29.11	31.00	1.545	2.642	21.8
Back side	GPRS 3TS	251/848.8	1:2.77	3.560	1.640	-0.14	29.08	31.00	1.556	2.552	21.8



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 105 of 157

Bottom side	GPRS 3TS	128/824.2	1:2.77	4.910	1.980	-0.09	29.11	31.00	1.545	3.059	21.8
Bottom side	GPRS 3TS	251/848.8	1:2.77	4.720	1.900	0.00	29.08	31.00	1.556	2.956	21.8
Bottom side with Sample2	GPRS 3TS	128/824.2	1:2.77	4.740	1.892	0.16	29.11	31.00	1.545	2.923	21.8
Bottom side with Sample3	GPRS 3TS	128/824.2	1:2.77	4.570	1.873	-0.17	29.11	31.00	1.545	2.894	21.8

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side 5mm	128/824.2	0.827	0.786	1.052	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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8.3.2 SAR Result of GSM1900

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 ECI 2											
Left cheek	GPRS 4TS	661/1880	1:2.075	0.134	0.085	0.08	25.26	27.00	1.493	0.200	22.1
Left tilted	GPRS 4TS	661/1880	1:2.075	0.120	0.069	-0.04	25.26	27.00	1.493	0.179	22.1
Right cheek	GPRS 4TS	661/1880	1:2.075	0.176	0.111	0.04	25.26	27.00	1.493	0.263	22.1
Right tilted	GPRS 4TS	661/1880	1:2.075	0.079	0.050	0.11	25.26	27.00	1.493	0.118	22.1
Body worn Test data(Separate 5mm) Sensor on ECI 3											
Front side	GPRS 4TS	661/1880	1:2.075	0.270	0.146	0.10	19.45	21.00	1.429	0.386	22.1
Back side	GPRS 4TS	661/1880	1:2.075	0.649	0.315	0.11	19.45	21.00	1.429	0.927	22.1
Back side	GPRS 4TS	512/1850.2	1:2.075	0.643	0.331	-0.02	19.29	21.00	1.483	0.954	22.1
Back side	GPRS 4TS	810/1909.8	1:2.075	0.665	0.337	0.15	19.41	21.00	1.442	0.959	22.1
Body worn Test data Sensor off ECI 4											
Front side 14mm	GPRS 4TS	661/1880	1:2.075	0.299	0.180	0.01	25.26	27.00	1.493	0.446	22.1
Back side 21mm	GPRS 4TS	661/1880	1:2.075	0.544	0.318	-0.05	25.26	27.00	1.493	0.812	22.1
Hotspot Test data(Separate 5mm) ECI 7											
Front side	GPRS 4TS	661/1880	1:2.075	0.270	0.146	-0.04	18.51	20.00	1.409	0.380	22.1
Back side	GPRS 4TS	661/1880	1:2.075	0.649	0.315	-0.17	18.51	20.00	1.409	0.914	22.1
Right side	GPRS 4TS	661/1880	1:2.075	0.044	0.025	0.04	18.51	20.00	1.409	0.062	22.1
Bottom side	GPRS 4TS	661/1880	1:2.075	0.685	0.323	0.01	18.51	20.00	1.409	0.965	22.1
Back side	GPRS 4TS	512/1850.2	1:2.075	0.643	0.331	0.03	18.44	20.00	1.432	0.921	22.1
Back side	GPRS 4TS	810/1909.8	1:2.075	0.665	0.337	0.15	18.49	20.00	1.416	0.942	22.1
Bottom side	GPRS 4TS	512/1850.2	1:2.075	0.673	0.307	-0.02	18.44	20.00	1.432	0.964	22.1
Bottom side	GPRS 4TS	810/1909.8	1:2.075	0.727	0.355	-0.07	18.49	20.00	1.416	1.029	22.1
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) Sensor on ECI 9											
Front side	GPRS 4TS	661/1880	1:2.075	1.560	0.753	-0.02	22.91	24.50	1.442	1.086	21.8
Back side	GPRS 4TS	661/1880	1:2.075	3.770	1.760	-0.08	22.91	24.50	1.442	2.538	21.8
Back side	GPRS 4TS	512/1850.2	1:2.075	3.750	1.740	-0.03	22.84	24.50	1.466	2.551	21.8
Back side	GPRS 4TS	810/1909.8	1:2.075	5.010	1.680	0.07	22.79	24.50	1.483	2.491	21.8
Bottom side	GPRS 4TS	661/1880	1:2.075	4.800	2.050	-0.03	22.91	24.50	1.442	2.956	21.8
Bottom side	GPRS 4TS	512/1850.2	1:2.075	4.840	2.120	-0.04	22.89	24.50	1.449	3.072	21.8
Bottom side-Repeated	GPRS 4TS	512/1850.2	1:2.075	4.760	2.060	-0.04	22.89	24.50	1.449	2.985	21.8
Bottom side	GPRS 4TS	810/1909.8	1:2.075	4.350	1.960	0.11	22.79	24.50	1.483	2.907	21.8
Product specific 10g SAR Test data (Separate 0mm) Sensor off ECI 4											
Front side 4mm	GPRS 4TS	661/1880	1:2.075	1.220	0.642	0.19	25.26	27.00	1.493	0.959	21.8
Back side 12mm	GPRS 4TS	661/1880	1:2.075	0.792	0.457	-0.18	25.26	27.00	1.493	0.682	21.8
Bottom side 16mm	GPRS 4TS	661/1880	1:2.075	0.717	0.409	0.12	25.26	27.00	1.493	0.611	21.8



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 107 of 157

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Bottom side 0mm	512/1850.2	2.120	2.060	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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8.3.3 SAR Result of WCDMA Band II

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 ECI 2											
Left cheek	RMC	9400/1880	1:1	0.125	0.079	-0.09	22.28	24.00	1.486	0.186	21.8
Left tilted	RMC	9400/1880	1:1	0.100	0.059	0.19	22.28	24.00	1.486	0.149	21.8
Right cheek	RMC	9400/1880	1:1	0.166	0.103	0.04	22.28	24.00	1.486	0.247	21.8
Right tilted	RMC	9400/1880	1:1	0.071	0.040	-0.04	22.28	24.00	1.486	0.106	21.8
Body worn Test data(Separate 5mm) Sensor on ECI 3											
Front side	RMC	9400/1880	1:1	0.289	0.159	0.08	17.36	19.00	1.459	0.422	21.8
Back side	RMC	9400/1880	1:1	0.714	0.356	-0.10	17.36	19.00	1.459	1.042	21.8
Back side	RMC	9262/1852.4	1:1	0.666	0.345	-0.12	17.31	19.00	1.476	0.983	21.8
Back side	RMC	9538/1907.6	1:1	0.489	0.268	0.13	17.32	19.00	1.472	0.720	21.8
Body worn Test data Sensor off ECI 4											
Front side 14mm	RMC	9400/1880	1:1	0.311	0.190	-0.07	22.28	24.00	1.486	0.462	21.8
Back side 21mm	RMC	9400/1880	1:1	0.436	0.283	0.02	22.28	24.00	1.486	0.648	21.8
Hotspot Test data(Separate 5mm) ECI 7											
Front side	RMC	9400/1880	1:1	0.231	0.127	-0.14	16.42	18.00	1.439	0.332	21.8
Back side	RMC	9400/1880	1:1	0.520	0.290	-0.01	16.42	18.00	1.439	0.748	21.8
Right side	RMC	9400/1880	1:1	0.055	0.030	-0.12	16.42	18.00	1.439	0.079	21.8
Bottom side	RMC	9400/1880	1:1	0.637	0.314	-0.07	16.42	18.00	1.439	0.917	21.8
Bottom side	RMC	9262/1852.4	1:1	0.556	0.236	0.09	16.34	18.00	1.466	0.815	21.8
Bottom side	RMC	9538/1907.6	1:1	0.587	0.245	-0.12	16.37	18.00	1.455	0.854	21.8
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) Sensor on ECI 9											
Front side	RMC	9400/1880	1:1	1.690	0.840	0.17	20.86	22.50	1.459	1.226	21.8
Back side	RMC	9400/1880	1:1	4.760	2.030	-0.18	20.86	22.50	1.459	2.962	21.8
Bottom side	RMC	9400/1880	1:1	3.890	1.790	0.03	20.86	22.50	1.459	2.612	21.8
Back side-Repeated	RMC	9400/1880	1:1	4.210	1.980	0.04	20.86	22.50	1.459	2.889	21.8
Back side	RMC	9262/1852.4	1:1	3.570	1.750	0.15	20.74	22.50	1.500	2.625	21.8
Back side	RMC	9538/1907.6	1:1	3.630	1.660	-0.17	20.77	22.50	1.489	2.472	21.8
Bottom side	RMC	9262/1852.4	1:1	3.800	1.700	-0.13	20.74	22.50	1.500	2.550	21.8
Bottom side	RMC	9538/1907.6	1:1	3.780	1.630	0.05	20.77	22.50	1.489	2.427	21.8
Back side with Sample2	RMC	9400/1880	1:1	4.440	1.898	0.14	20.86	22.50	1.459	2.769	21.8
Back side with Sample3	RMC	9400/1880	1:1	4.450	1.879	-0.16	20.86	22.50	1.459	2.741	21.8
Product specific 10g SAR Test data (Separate 0mm) Sensor off ECI 4											
Front side 4mm	RMC	9400/1880	1:1	1.080	0.579	0.01	22.28	24.00	1.486	0.860	21.8
Back side 12mm	RMC	9400/1880	1:1	0.771	0.438	-0.17	22.28	24.00	1.486	0.651	21.8
Bottom side 16mm	RMC	9400/1880	1:1	0.655	0.371	-0.15	22.28	24.00	1.486	0.551	21.8



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 109 of 157

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side 0mm	9400/1880	2.030	1.980	1.025	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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8.3.4 SAR Result of WCDMA Band IV

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 ECI 2											
Left cheek	RMC	1412/1732.4	1:1	0.089	0.056	0.14	22.44	24.00	1.432	0.127	22.5
Left tilted	RMC	1412/1732.4	1:1	0.061	0.039	-0.14	22.44	24.00	1.432	0.087	22.5
Right cheek	RMC	1412/1732.4	1:1	0.122	0.077	0.05	22.44	24.00	1.432	0.175	22.5
Right tilted	RMC	1412/1732.4	1:1	0.059	0.035	0.19	22.44	24.00	1.432	0.084	22.5
Body worn Test data(Separate 5mm) Sensor on ECI 3											
Front side	RMC	1412/1732.4	1:1	0.263	0.142	0.04	17.46	19.00	1.426	0.375	22.5
Back side	RMC	1412/1732.4	1:1	0.710	0.357	0.04	17.46	19.00	1.426	1.012	22.5
Back side	RMC	1312/1712.4	1:1	0.730	0.370	-0.08	17.39	19.00	1.449	1.058	22.5
Back side	RMC	1513/1752.6	1:1	0.768	0.413	0.00	17.41	19.00	1.442	1.107	22.5
Body worn Test data Sensor off ECI 4											
Front side 14mm	RMC	1412/1732.4	1:1	0.213	0.129	0.13	22.44	24.00	1.432	0.305	22.5
Back side 21mm	RMC	1412/1732.4	1:1	0.376	0.218	0.14	22.44	24.00	1.432	0.538	22.5
Hotspot Test data(Separate 5mm) ECI 7											
Front side	RMC	1412/1732.4	1:1	0.191	0.078	0.05	16.09	17.50	1.384	0.264	22.5
Back side	RMC	1412/1732.4	1:1	0.576	0.295	-0.08	16.09	17.50	1.384	0.797	22.5
Right side	RMC	1412/1732.4	1:1	0.058	0.031	0.03	16.09	17.50	1.384	0.080	22.5
Bottom side	RMC	1412/1732.4	1:1	0.691	0.343	0.16	16.09	17.50	1.384	0.956	22.5
Bottom side	RMC	1312/1712.4	1:1	0.748	0.356	-0.03	16.03	17.50	1.403	1.049	22.5
Bottom side	RMC	1513/1752.6	1:1	0.715	0.321	0.01	15.99	17.50	1.416	1.012	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) Sensor on ECI 9											
Back side	RMC	1412/1732.4	1:1	3.620	1.690	-0.03	18.98	20.50	1.419	2.398	22.5
Bottom side	RMC	1412/1732.4	1:1	4.190	1.890	-0.06	18.98	20.50	1.419	2.682	22.5
Back side	RMC	1312/1712.4	1:1	3.590	1.720	0.03	18.93	20.50	1.435	2.468	22.5
Back side	RMC	1513/1752.6	1:1	3.710	1.850	0.05	18.91	20.50	1.442	2.668	22.5
Bottom side	RMC	1312/1712.4	1:1	4.160	1.760	-0.08	18.93	20.50	1.435	2.526	22.5
Bottom side	RMC	1513/1752.6	1:1	4.220	1.910	-0.05	18.91	20.50	1.442	2.754	22.5
Product specific 10g SAR Test data (Separate 0mm) Sensor off ECI 4											
Back side 12mm	RMC	1412/1732.4	1:1	0.652	0.371	0.18	22.44	24.00	1.432	0.531	22.5
Bottom side 16mm	RMC	1412/1732.4	1:1	0.590	0.330	-0.06	22.44	24.00	1.432	0.473	22.5

8.3.5 SAR Result of WCDMA Band V

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 ECI 2											
Left cheek	RMC	4182/836.4	1:1	0.232	0.166	-0.13	22.59	24.00	1.384	0.321	22.0
Left tilted	RMC	4182/836.4	1:1	0.122	0.091	-0.06	22.59	24.00	1.384	0.169	22.0
Right cheek	RMC	4182/836.4	1:1	0.254	0.198	0.02	22.59	24.00	1.384	0.352	22.0
Right tilted	RMC	4182/836.4	1:1	0.159	0.118	-0.17	22.59	24.00	1.384	0.220	22.0
Right cheek with Sample2	RMC	4182/836.4	1:1	0.224	0.156	0.07	22.59	24.00	1.384	0.310	22.0
Right cheek with Sample3	RMC	4182/836.4	1:1	0.230	0.161	-0.05	22.59	24.00	1.384	0.318	22.0
Body worn Test data(Separate 5mm) Sensor on ECI 3											
Front side	RMC	4182/836.4	1:1	0.427	0.254	-0.03	20.69	22.00	1.352	0.577	22.0
Back side	RMC	4182/836.4	1:1	0.846	0.442	0.00	20.69	22.00	1.352	1.144	22.0
Back side	RMC	4132/826.4	1:1	0.658	0.314	0.05	20.66	22.00	1.361	0.896	22.0
Back side	RMC	4233/846.6	1:1	0.702	0.333	-0.01	20.58	22.00	1.387	0.974	22.0
Back side-Repeated	RMC	4182/836.4	1:1	0.806	0.398	-0.13	20.69	22.00	1.352	1.090	22.0
Back side with Sample2	RMC	4182/836.4	1:1	0.826	0.413	0.15	20.69	22.00	1.352	1.117	22.0
Back side with Sample3	RMC	4182/836.4	1:1	0.794	0.392	0.09	20.69	22.00	1.352	1.073	22.0
Body worn Test data Sensor off ECI 4											
Front side 14mm	RMC	4182/836.4	1:1	0.217	0.156	0.15	22.59	24.00	1.384	0.300	22.0
Back side 21mm	RMC	4182/836.4	1:1	0.220	0.155	0.03	22.59	24.00	1.384	0.304	22.0
Hotspot Test data(Separate 5mm) ECI 7											
Front side	RMC	4182/836.4	1:1	0.427	0.254	0.12	20.69	22.00	1.352	0.577	22.0
Back side	RMC	4182/836.4	1:1	0.846	0.442	0.00	20.69	22.00	1.352	1.144	22.0
Right side	RMC	4182/836.4	1:1	0.331	0.210	0.13	20.69	22.00	1.352	0.448	22.0
Bottom side	RMC	4182/836.4	1:1	0.792	0.336	0.13	20.69	22.00	1.352	1.071	22.0
Back side	RMC	4132/826.4	1:1	0.658	0.314	0.02	20.66	22.00	1.361	0.896	22.0
Back side	RMC	4233/846.6	1:1	0.702	0.333	0.07	20.58	22.00	1.387	0.974	22.0
Bottom side	RMC	4132/826.4	1:1	0.491	0.211	0.09	20.66	22.00	1.361	0.668	22.0
Bottom side	RMC	4233/846.6	1:1	0.519	0.234	0.06	20.58	22.00	1.387	0.720	22.0
Back side-Repeated	RMC	4182/836.4	1:1	0.806	0.398	0.13	20.69	22.00	1.352	1.090	22.0
Back side with Sample2	RMC	4182/836.4	1:1	0.826	0.413	0.15	20.69	22.00	1.352	1.117	22.0
Back side with Sample3	RMC	4182/836.4	1:1	0.794	0.392	0.09	20.69	22.00	1.352	1.073	22.0
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) ECI 4											
Back side	RMC	4182/836.4	1:1	2.250	1.080	0.06	22.59	24.00	1.384	1.495	22.0
Bottom side	RMC	4182/836.4	1:1	3.820	1.500	-0.02	22.59	24.00	1.384	2.076	22.0
Bottom side	RMC	4132/826.4	1:1	2.930	1.260	-0.12	22.51	24.00	1.409	1.775	22.0
Bottom side	RMC	4233/846.6	1:1	2.990	1.290	0.10	22.45	24.00	1.429	1.843	22.0



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 112 of 157

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side 5mm	4182/836.4	0.846	0.806	1.050	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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8.3.6 SAR Result of LTE Band 2

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)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) ECI 2												
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.145	0.093	0.02	22.27	24.00	1.489	0.216	21.8
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.103	0.061	0.04	22.27	24.00	1.489	0.153	21.8
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.123	0.076	-0.11	22.27	24.00	1.489	0.183	21.8
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.076	0.042	0.00	22.27	24.00	1.489	0.113	21.8
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_25	18900/1880	1:1	0.102	0.064	-0.07	21.28	23.00	1.486	0.152	21.8
Left tilted	20	QPSK 50_25	18900/1880	1:1	0.082	0.048	-0.05	21.28	23.00	1.486	0.122	21.8
Right cheek	20	QPSK 50_25	18900/1880	1:1	0.119	0.073	-0.09	21.28	23.00	1.486	0.177	21.8
Right tilted	20	QPSK 50_25	18900/1880	1:1	0.059	0.033	-0.08	21.28	23.00	1.486	0.088	21.8
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_0	18900/1880	1:1	0.349	0.187	0.14	17.49	19.00	1.416	0.494	21.8
Back side	20	QPSK 1_0	18900/1880	1:1	0.743	0.386	-0.19	17.49	19.00	1.416	1.052	21.8
Back side	20	QPSK 1_0	18700/1860	1:1	0.850	0.430	-0.02	17.44	19.00	1.432	1.217	21.8
Back side with Headset	20	QPSK 1_0	18700/1860	1:1	0.835	0.412	-0.06	17.44	19.00	1.432	1.196	21.8
Back side-Repeated	20	QPSK 1_0	18700/1860	1:1	0.794	0.397	0.07	17.44	19.00	1.432	1.137	21.8
Back side	20	QPSK 1_0	19100/1900	1:1	0.743	0.386	0.04	17.46	19.00	1.426	1.060	21.8
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_25	18900/1880	1:1	0.286	0.157	0.08	17.29	19.00	1.483	0.424	21.8
Back side	20	QPSK 50_25	18900/1880	1:1	0.670	0.339	0.11	17.29	19.00	1.483	0.994	21.8
Back side	20	QPSK 50_25	18700/1860	1:1	0.665	0.336	0.11	17.28	19.00	1.486	0.988	21.8
Back side	20	QPSK 50_25	19100/1900	1:1	0.605	0.315	-0.14	17.22	19.00	1.507	0.912	21.8
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	20	QPSK 100_0	18900/1880	1:1	0.686	0.373	-0.03	17.31	19.00	1.476	1.013	21.8
Body worn Test data (1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_0	18900/1880	1:1	0.308	0.188	0.15	22.27	24.00	1.489	0.459	21.8
Back side 21mm	20	QPSK 1_0	18900/1880	1:1	0.515	0.305	-0.08	22.27	24.00	1.489	0.767	21.8
Body worn Test data (50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_25	18900/1880	1:1	0.262	0.159	0.06	21.28	23.00	1.486	0.389	21.8
Back side 21mm	20	QPSK 50_25	18900/1880	1:1	0.463	0.212	0.15	21.28	23.00	1.486	0.688	21.8
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_0	18900/1880	1:1	0.285	0.152	-0.06	16.41	18.00	1.442	0.411	21.8
Back side	20	QPSK 1_0	18900/1880	1:1	0.606	0.315	-0.17	16.41	18.00	1.442	0.874	21.8
Right side	20	QPSK 1_0	18900/1880	1:1	0.070	0.040	-0.03	16.41	18.00	1.442	0.101	21.8
Bottom side	20	QPSK 1_0	18900/1880	1:1	0.681	0.389	0.10	16.41	18.00	1.442	0.982	21.8
Back side	20	QPSK 1_0	18700/1860	1:1	0.617	0.308	0.19	16.39	18.00	1.449	0.894	21.8



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 114 of 157

Back side	20	QPSK 1_0	19100/1900	1:1	0.562	0.278	-0.06	16.31	18.00	1.476	0.830	21.8
Bottom side	20	QPSK 1_0	18700/1860	1:1	0.686	0.415	-0.08	16.39	18.00	1.449	0.994	21.8
Bottom side	20	QPSK 1_0	19100/1900	1:1	0.637	0.378	0.17	16.31	18.00	1.476	0.940	21.8
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_25	18900/1880	1:1	0.233	0.128	-0.01	16.31	18.00	1.476	0.344	21.8
Back side	20	QPSK 50_25	18900/1880	1:1	0.562	0.277	0.10	16.31	18.00	1.476	0.830	21.8
Right side	20	QPSK 50_25	18900/1880	1:1	0.059	0.033	0.08	16.31	18.00	1.476	0.087	21.8
Bottom side	20	QPSK 50_25	18900/1880	1:1	0.630	0.312	0.04	16.31	18.00	1.476	0.930	21.8
Back side	20	QPSK 50_25	18700/1860	1:1	0.592	0.295	0.04	16.25	18.00	1.496	0.886	21.8
Back side	20	QPSK 50_25	19100/1900	1:1	0.578	0.285	0.16	16.20	18.00	1.514	0.875	21.8
Bottom side	20	QPSK 50_25	18700/1860	1:1	0.661	0.321	0.11	16.25	18.00	1.496	0.989	21.8
Bottom side	20	QPSK 50_25	19100/1900	1:1	0.614	0.301	0.12	16.20	18.00	1.514	0.930	21.8
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Back side	20	QPSK 100_0	18900/1880	1:1	0.574	0.292	-0.08	16.19	18.00	1.517	0.871	21.8
Bottom side	20	QPSK 100_0	18900/1880	1:1	0.622	0.349	-0.07	16.19	18.00	1.517	0.944	21.8
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)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 9												
Front side	20	QPSK 1_0	18900/1880	1:1	1.820	0.884	0.03	20.89	22.50	1.449	1.281	21.8
Back side	20	QPSK 1_0	18900/1880	1:1	4.000	1.930	0.04	20.89	22.50	1.449	2.797	21.8
Bottom side	20	QPSK 1_0	18900/1880	1:1	4.240	1.880	0.06	20.89	22.50	1.449	2.724	21.8
Back side	20	QPSK 1_0	18700/1860	1:1	4.450	2.120	-0.07	20.87	22.50	1.455	3.085	21.8
Back side	20	QPSK 1_0	19100/1900	1:1	4.890	2.160	0.13	20.84	22.50	1.466	3.167	21.8
Bottom side	20	QPSK 1_0	18700/1860	1:1	4.160	1.660	-0.09	20.87	22.50	1.455	2.415	21.8
Bottom side	20	QPSK 1_0	19100/1900	1:1	4.310	1.960	0.01	20.84	22.50	1.466	2.873	21.8
Back side-Repeated	20	QPSK 1_0	19100/1900	1:1	4.650	2.040	0.13	20.84	22.50	1.466	2.991	21.8
Back side with Sample2	20	QPSK 1_0	19100/1900	1:1	4.632	1.982	0.11	20.84	22.50	1.466	2.906	21.8
Back side with Sample3	20	QPSK 1_0	19100/1900	1:1	4.540	1.941	0.04	20.84	22.50	1.466	2.846	21.8
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 9												
Front side	20	QPSK 50_25	18900/1880	1:1	1.520	0.737	0.08	20.87	22.50	1.455	1.072	21.8
Back side	20	QPSK 50_25	18900/1880	1:1	3.770	1.720	-0.05	20.87	22.50	1.455	2.503	21.8
Bottom side	20	QPSK 50_25	18900/1880	1:1	3.520	1.560	0.19	20.87	22.50	1.455	2.270	21.8
Back side	20	QPSK 50_25	18700/1860	1:1	3.550	1.620	0.00	20.81	22.50	1.476	2.391	21.8
Back side	20	QPSK 50_25	19100/1900	1:1	4.050	1.780	-0.12	20.80	22.50	1.479	2.633	21.8
Bottom side	20	QPSK 50_25	18700/1860	1:1	3.490	1.540	-0.10	20.81	22.50	1.476	2.273	21.8
Bottom side	20	QPSK 50_25	19100/1900	1:1	3.550	1.630	0.08	20.80	22.50	1.479	2.411	21.8
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 9												



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 115 of 157

Back side	20	QPSK 100 0	18900/1880	1:1	3.790	1.600	-0.14	20.81	22.50	1.476	2.362	21.8
Bottom side	20	QPSK 100 0	18900/1880	1:1	3.690	1.570	-0.11	20.81	22.50	1.476	2.317	21.8
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor off ECI 4												
Front side 4mm	20	QPSK 1_0	18900/1880	1:1	1.120	0.595	0.08	22.27	24.00	1.489	0.886	21.8
Back side 12mm	20	QPSK 1_0	18900/1880	1:1	0.760	0.432	0.08	22.27	24.00	1.489	0.643	21.8
Bottom side 16mm	20	QPSK 1_0	18900/1880	1:1	0.583	0.333	0.02	22.27	24.00	1.489	0.496	21.8
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off ECI 4												
Front side 4mm	20	QPSK 50 25	18900/1880	1:1	0.957	0.499	-0.05	21.28	23.00	1.486	0.742	21.8
Back side 12mm	20	QPSK 50 25	18900/1880	1:1	0.642	0.363	0.05	21.28	23.00	1.486	0.539	21.8
Bottom side 16mm	20	QPSK 50 25	18900/1880	1:1	0.485	0.278	-0.08	21.28	23.00	1.486	0.413	21.8

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side 5mm	18700/1860	0.850	0.794	1.071	N/A	N/A
Back side 0mm	19100/1900	2.160	2.040	1.059	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/2

Report No.: SZCR260200054301

Page: 116 of 157

8.3.7 SAR Result of LTE Band 4

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) ECI 2												
Left cheek	20	QPSK 1_0	20175/1732.5	1:1	0.135	0.086	-0.18	22.20	24.00	1.514	0.204	22.0
Left tilted	20	QPSK 1_0	20175/1732.5	1:1	0.099	0.062	-0.08	22.20	24.00	1.514	0.150	22.0
Right cheek	20	QPSK 1_0	20175/1732.5	1:1	0.206	0.131	-0.04	22.20	24.00	1.514	0.312	22.0
Right tilted	20	QPSK 1_0	20175/1732.5	1:1	0.105	0.062	-0.14	22.20	24.00	1.514	0.159	22.0
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_25	20175/1732.5	1:1	0.106	0.067	-0.02	21.25	23.00	1.496	0.159	22.0
Left tilted	20	QPSK 50_25	20175/1732.5	1:1	0.077	0.049	-0.08	21.25	23.00	1.496	0.115	22.0
Right cheek	20	QPSK 50_25	20175/1732.5	1:1	0.154	0.093	-0.02	21.25	23.00	1.496	0.230	22.0
Right tilted	20	QPSK 50_25	20175/1732.5	1:1	0.075	0.045	0.17	21.25	23.00	1.496	0.112	22.0
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.304	0.166	-0.06	15.77	17.50	1.489	0.453	22.0
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.804	0.403	-0.05	15.77	17.50	1.489	1.197	22.0
Back side-Repeated	20	QPSK 1_0	20175/1732.5	1:1	0.751	0.384	0.05	15.77	17.50	1.489	1.118	22.0
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_25	20175/1732.5	1:1	0.245	0.131	-0.17	15.78	17.50	1.486	0.364	22.0
Back side	20	QPSK 50_25	20175/1732.5	1:1	0.629	0.318	0.03	15.78	17.50	1.486	0.935	22.0
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	20	QPSK 100_0	20175/1732.5	1:1	0.654	0.392	0.03	15.75	17.50	1.496	0.978	22.0
Body worn Test data (1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_0	20175/1732.5	1:1	0.289	0.204	-0.03	22.20	24.00	1.514	0.438	22.0
Back side 21mm	20	QPSK 1_0	20175/1732.5	1:1	0.378	0.237	0.01	22.20	24.00	1.514	0.572	22.0
Body worn Test data (50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_25	20175/1732.5	1:1	0.261	0.157	-0.15	21.25	23.00	1.496	0.390	22.0
Back side 21mm	20	QPSK 50_25	20175/1732.5	1:1	0.292	0.178	0.11	21.25	23.00	1.496	0.437	22.0
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.203	0.111	0.08	14.18	16.00	1.521	0.309	22.0
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.536	0.270	-0.16	14.18	16.00	1.521	0.815	22.0
Right side	20	QPSK 1_0	20175/1732.5	1:1	0.063	0.034	0.02	14.18	16.00	1.521	0.096	22.0
Bottom side	20	QPSK 1_0	20175/1732.5	1:1	0.667	0.336	0.02	14.18	16.00	1.521	1.015	22.0
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_25	20175/1732.5	1:1	0.164	0.088	0.05	14.26	16.00	1.493	0.245	22.0
Back side	20	QPSK 50_25	20175/1732.5	1:1	0.419	0.212	0.18	14.26	16.00	1.493	0.626	22.0
Right side	20	QPSK 50_25	20175/1732.5	1:1	0.046	0.025	0.02	14.26	16.00	1.493	0.069	22.0
Bottom side	20	QPSK 50_25	20175/1732.5	1:1	0.537	0.260	-0.14	14.26	16.00	1.493	0.802	22.0
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Back side	20	QPSK 100_0	20175/1732.5	1:1	0.443	0.279	-0.06	14.23	16.00	1.503	0.666	22.0
Bottom side	20	QPSK 100_0	20175/1732.5	1:1	0.554	0.326	0.01	14.23	16.00	1.503	0.833	22.0



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 117 of 157

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 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 9												
Front side	20	QPSK 1_0	20175/1732.5	1:1	1.410	0.690	0.17	18.38	20.00	1.452	1.002	22.0
Back side	20	QPSK 1_0	20175/1732.5	1:1	3.500	1.700	-0.02	18.38	20.00	1.452	2.468	22.0
Bottom side	20	QPSK 1_0	20175/1732.5	1:1	4.560	2.000	-0.01	18.38	20.00	1.452	2.904	22.0
Bottom side - Repeated	20	QPSK 1_0	20175/1732.5	1:1	4.380	1.860	-0.01	18.38	20.00	1.452	2.701	22.0
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 9												
Front side	20	QPSK 50_25	20175/1732.5	1:1	1.180	0.558	0.18	18.32	20.00	1.472	0.821	22.0
Back side	20	QPSK 50_25	20175/1732.5	1:1	2.750	1.340	0.02	18.32	20.00	1.472	1.972	22.0
Bottom side	20	QPSK 50_25	20175/1732.5	1:1	3.520	1.560	0.12	18.32	20.00	1.472	2.296	22.0
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 9												
Back side	20	QPSK 100_0	20175/1732.5	1:1	2.800	1.360	-0.16	18.29	20.00	1.483	2.017	22.0
Bottom side	20	QPSK 100_0	20175/1732.5	1:1	3.120	1.470	-0.11	18.29	20.00	1.483	2.180	22.0
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor off ECI 4												
Front side 4mm	20	QPSK 1_0	20175/1732.5	1:1	1.360	0.679	-0.10	22.20	24.00	1.514	1.028	22.0
Back side 12mm	20	QPSK 1_0	20175/1732.5	1:1	1.190	0.677	-0.11	22.20	24.00	1.514	1.025	22.0
Bottom side 16mm	20	QPSK 1_0	20175/1732.5	1:1	0.967	0.546	-0.06	22.20	24.00	1.514	0.827	22.0
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off ECI 4												
Front side 4mm	20	QPSK 50_25	20175/1732.5	1:1	1.300	0.645	-0.05	21.25	23.00	1.496	0.965	22.0
Back side 12mm	20	QPSK 50_25	20175/1732.5	1:1	0.934	0.530	0.07	21.25	23.00	1.496	0.793	22.0
Bottom side 16mm	20	QPSK 50_25	20175/1732.5	1:1	0.771	0.434	0.01	21.25	23.00	1.496	0.649	22.0

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side 5mm	20175/1732.5	0.804	0.751	1.071	N/A	N/A
Bottom side 0mm	20175/1732.5	2.000	1.860	1.075	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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8.3.8 SAR Result of LTE Band 7

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) ECI 2												
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.296	0.158	0.05	22.41	24.00	1.442	0.427	22.5
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.089	0.047	0.08	22.41	24.00	1.442	0.128	22.5
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.235	0.126	0.08	22.41	24.00	1.442	0.339	22.5
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.158	0.089	0.14	22.41	24.00	1.442	0.228	22.5
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_25	21100/2535	1:1	0.242	0.128	-0.12	21.43	23.00	1.435	0.347	22.5
Left tilted	20	QPSK 50_25	21100/2535	1:1	0.078	0.042	0.10	21.43	23.00	1.435	0.112	22.5
Right cheek	20	QPSK 50_25	21100/2535	1:1	0.201	0.094	0.02	21.43	23.00	1.435	0.288	22.5
Right tilted	20	QPSK 50_25	21100/2535	1:1	0.131	0.073	-0.06	21.43	23.00	1.435	0.188	22.5
Body worn Test data (Separate 5mm 1RB) ECI 3												
Front side	20	QPSK 1_0	21100/2535	1:1	0.371	0.191	-0.14	16.93	18.50	1.435	0.532	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.671	0.327	-0.13	16.93	18.50	1.435	0.963	22.5
Back side	20	QPSK 1_0	20850/2510	1:1	0.627	0.322	0.01	16.72	18.50	1.507	0.945	22.5
Back side	20	QPSK 1_0	21350/2560	1:1	0.705	0.347	-0.02	16.92	18.50	1.439	1.014	22.5
Body worn Test data (Separate 5mm 50%RB) ECI 3												
Front side	20	QPSK 50_25	21100/2535	1:1	0.319	0.160	0.12	16.93	18.50	1.435	0.458	22.5
Back side	20	QPSK 50_25	21100/2535	1:1	0.572	0.283	-0.10	16.93	18.50	1.435	0.821	22.5
Back side	20	QPSK 50_25	20850/2510	1:1	0.531	0.261	-0.19	16.54	18.50	1.570	0.834	22.5
Back side	20	QPSK 50_25	21350/2560	1:1	0.627	0.303	0.03	16.88	18.50	1.452	0.910	22.5
Body worn Test data (Separate 5mm 100%RB) ECI 3												
Back side	20	QPSK 100_0	21100/2535	1:1	0.656	0.348	-0.19	16.98	18.50	1.419	0.931	22.5
Body worn Test data (Separate 5mm 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_0	21100/2535	1:1	0.315	0.171	-0.12	22.41	24.00	1.442	0.454	22.5
Back side 19mm	20	QPSK 1_0	21100/2535	1:1	0.267	0.146	0.10	22.41	24.00	1.442	0.385	22.5
Body worn Test data (Separate 5mm 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_25	21100/2535	1:1	0.267	0.143	0.13	21.43	23.00	1.435	0.383	22.5
Back side 19mm	20	QPSK 50_25	21100/2535	1:1	0.220	0.121	-0.11	21.43	23.00	1.435	0.316	22.5
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_0	21100/2535	1:1	0.371	0.191	-0.12	16.93	18.50	1.435	0.532	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	0.671	0.327	0.10	16.93	18.50	1.435	0.963	22.5
Left side	20	QPSK 1_0	21100/2535	1:1	0.234	0.135	0.05	16.93	18.50	1.435	0.336	22.5
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.509	0.235	0.08	16.93	18.50	1.435	0.730	22.5
Back side	20	QPSK 1_0	20850/2510	1:1	0.627	0.322	-0.16	16.72	18.50	1.507	0.945	22.5
Back side	20	QPSK 1_0	21350/2560	1:1	0.705	0.347	-0.02	16.92	18.50	1.439	1.014	22.5
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_25	21100/2535	1:1	0.319	0.160	-0.12	16.93	18.50	1.435	0.458	22.5
Back side	20	QPSK 50_25	21100/2535	1:1	0.572	0.283	-0.07	16.93	18.50	1.435	0.821	22.5



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 119 of 157

Left side	20	QPSK 50_25	21100/2535	1:1	0.241	0.115	0.15	16.93	18.50	1.435	0.346	22.5
Bottom side	20	QPSK 50_25	21100/2535	1:1	0.429	0.190	-0.12	16.93	18.50	1.435	0.616	22.5
Back side	20	QPSK 50_25	20850/2510	1:1	0.531	0.261	0.12	16.54	18.50	1.570	0.834	22.5
Back side	20	QPSK 50_25	21350/2560	1:1	0.627	0.303	-0.19	16.88	18.50	1.452	0.910	22.5
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Back side	20	QPSK 100_0	21100/2535	1:1	0.636	0.316	-0.19	16.98	18.50	1.419	0.902	22.5
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 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 10												
Front side	20	QPSK 1_0	21100/2535	1:1	1.990	0.809	0.16	19.02	20.50	1.406	1.137	22.5
Back side	20	QPSK 1_0	21100/2535	1:1	3.550	1.490	-0.01	19.02	20.50	1.406	2.095	22.5
Bottom side	20	QPSK 1_0	21100/2535	1:1	2.750	1.098	-0.07	19.02	20.50	1.406	1.544	22.5
Back side	20	QPSK 1_0	20850/2510	1:1	3.540	1.510	-0.12	18.73	20.50	1.503	2.270	22.5
Back side	20	QPSK 1_0	21350/2560	1:1	5.160	2.060	0.07	19.00	20.50	1.413	2.911	22.5
Back side-Repeated	20	QPSK 1_0	21350/2560	1:1	5.040	2.010	0.07	19.00	20.50	1.413	2.840	22.5
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 10												
Front side	20	QPSK 50_25	21100/2535	1:1	1.630	0.749	0.16	19.02	20.50	1.406	1.053	22.5
Back side	20	QPSK 50_25	21100/2535	1:1	3.540	1.320	0.11	19.02	20.50	1.406	1.856	22.5
Bottom side	20	QPSK 50_25	21100/2535	1:1	2.530	1.015	-0.08	19.02	20.50	1.406	1.427	22.5
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on ECI 10												
Front side	20	QPSK 100_0	21100/2535	1:1	1.580	0.739	0.02	18.99	20.50	1.416	1.046	22.5
Back side	20	QPSK 100_0	21100/2535	1:1	3.360	1.260	0.04	18.99	20.50	1.416	1.784	22.5
Bottom side	20	QPSK 100_0	21100/2535	1:1	2.940	1.040	0.05	18.99	20.50	1.416	1.473	22.5
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor off ECI 4												
Front side 8mm	20	QPSK 1_0	21100/2535	1:1	0.756	0.393	0.14	22.41	24.00	1.442	0.567	22.5
Back side 11mm	20	QPSK 1_0	21100/2535	1:1	0.879	0.449	-0.06	22.41	24.00	1.442	0.647	22.5
Bottom side 13mm	20	QPSK 1_0	21100/2535	1:1	0.538	0.274	0.16	22.41	24.00	1.442	0.395	22.5
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off ECI 4												
Front side 8mm	20	QPSK 50_25	21100/2535	1:1	0.623	0.324	-0.18	21.43	23.00	1.435	0.465	22.5
Back side 11mm	20	QPSK 50_25	21100/2535	1:1	0.743	0.381	0.05	21.43	23.00	1.435	0.547	22.5
Bottom side 13mm	20	QPSK 50_25	21100/2535	1:1	0.462	0.235	-0.03	21.43	23.00	1.435	0.337	22.5

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side 0mm	21350/2560	2.060	2.010	1.025	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



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

SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 120 of 157

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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8.3.9 SAR Result of LTE Band 12

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) ECI 2												
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.128	0.093	0.13	22.43	24.00	1.435	0.184	21.9
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.071	0.053	-0.19	22.43	24.00	1.435	0.102	21.9
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.149	0.113	0.08	22.43	24.00	1.435	0.214	21.9
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.072	0.055	0.15	22.43	24.00	1.435	0.103	21.9
Head Test Data (50%RB) ECI 2												
Left cheek	10	QPSK 25_13	23095/707.5	1:1	0.102	0.074	-0.08	21.42	23.00	1.439	0.147	21.9
Left tilted	10	QPSK 25_13	23095/707.5	1:1	0.053	0.040	-0.19	21.42	23.00	1.439	0.076	21.9
Right cheek	10	QPSK 25_13	23095/707.5	1:1	0.106	0.077	0.13	21.42	23.00	1.439	0.153	21.9
Right tilted	10	QPSK 25_13	23095/707.5	1:1	0.059	0.045	0.10	21.42	23.00	1.439	0.085	21.9
Body worn Test data (Separate 5mm 1RB) ECI 4												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.257	0.157	-0.14	22.43	24.00	1.435	0.369	21.9
Back side	10	QPSK 1_0	23095/707.5	1:1	0.613	0.341	0.01	22.43	24.00	1.435	0.880	21.9
Body worn Test data (Separate 5mm 50%RB) ECI 4												
Front side	10	QPSK 25_13	23095/707.5	1:1	0.223	0.133	-0.02	21.42	23.00	1.439	0.321	21.9
Back side	10	QPSK 25_13	23095/707.5	1:1	0.537	0.279	0.04	21.42	23.00	1.439	0.773	21.9
Body worn Test data (Separate 5mm 100%RB) ECI 4												
Back side	10	QPSK 50_0	23095/707.5	1:1	0.494	0.291	0.19	21.40	23.00	1.445	0.714	21.9
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.257	0.157	0.15	22.43	24.00	1.435	0.369	21.9
Back side	10	QPSK 1_0	23095/707.5	1:1	0.613	0.341	0.01	22.43	24.00	1.435	0.880	21.9
Right side	10	QPSK 1_0	23095/707.5	1:1	0.425	0.277	0.19	22.43	24.00	1.435	0.610	21.9
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.366	0.181	-0.18	22.43	24.00	1.435	0.525	21.9
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	10	QPSK 25_13	23095/707.5	1:1	0.223	0.133	0.03	21.42	23.00	1.439	0.321	21.9
Back side	10	QPSK 25_13	23095/707.5	1:1	0.537	0.279	0.07	21.42	23.00	1.439	0.773	21.9
Right side	10	QPSK 25_13	23095/707.5	1:1	0.329	0.214	0.01	21.42	23.00	1.439	0.473	21.9
Bottom side	10	QPSK 25_13	23095/707.5	1:1	0.401	0.171	-0.15	21.42	23.00	1.439	0.577	21.9
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Back side	10	QPSK 50_0	23095/707.5	1:1	0.512	0.295	-0.03	21.40	23.00	1.445	0.740	21.9



8.3.10 SAR Result of LTE Band 26

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)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) ECI 2												
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.187	0.146	0.18	22.37	24.00	1.455	0.272	22.2
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.125	0.094	0.11	22.37	24.00	1.455	0.182	22.2
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.199	0.156	0.06	22.37	24.00	1.455	0.290	22.2
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.149	0.112	-0.02	22.37	24.00	1.455	0.217	22.2
Head Test Data (50%RB) ECI 2												
Left cheek	15	QPSK 36_18	26865/831.5	1:1	0.175	0.133	-0.12	21.40	23.00	1.445	0.253	22.2
Left tilted	15	QPSK 36_18	26865/831.5	1:1	0.106	0.080	0.19	21.40	23.00	1.445	0.153	22.2
Right cheek	15	QPSK 36_18	26865/831.5	1:1	0.183	0.142	0.13	21.40	23.00	1.445	0.264	22.2
Right tilted	15	QPSK 36_18	26865/831.5	1:1	0.115	0.084	0.01	21.40	23.00	1.445	0.166	22.2
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.469	0.274	-0.03	20.66	22.00	1.361	0.638	22.2
Back side	15	QPSK 1_0	26865/831.5	1:1	0.924	0.490	0.06	20.66	22.00	1.361	1.258	22.2
Back side with headset	15	QPSK 1_0	26865/831.5	1:1	0.860	0.457	0.12	20.66	22.00	1.361	1.170	22.2
Back side-Repeated	15	QPSK 1_0	26865/831.5	1:1	0.897	0.424	-0.18	20.66	22.00	1.361	1.221	22.2
Back side with Sample2	15	QPSK 1_0	26865/831.5	1:1	0.851	0.463	-0.10	20.66	22.00	1.361	1.158	22.2
Back side with Sample3	15	QPSK 1_0	26865/831.5	1:1	0.828	0.434	0.14	20.66	22.00	1.361	1.127	22.2
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	15	QPSK 36_18	26865/831.5	1:1	0.374	0.216	-0.02	20.36	22.00	1.459	0.546	22.2
Back side	15	QPSK 36_18	26865/831.5	1:1	0.725	0.406	0.19	20.36	22.00	1.459	1.058	22.2
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	15	QPSK 75_0	26865/831.5	1:1	0.791	0.439	-0.05	20.42	22.00	1.439	1.138	22.2
Body worn Test data (1RB) Sensor off ECI 4												
Front side 14mm	15	QPSK 1_0	26865/831.5	1:1	0.218	0.156	-0.06	22.37	24.00	1.455	0.317	22.2
Back side 21mm	15	QPSK 1_0	26865/831.5	1:1	0.217	0.155	0.19	22.37	24.00	1.455	0.316	22.2
Body worn Test data (50%RB) Sensor off ECI 4												
Front side 14mm	15	QPSK 36_18	26865/831.5	1:1	0.171	0.122	-0.14	21.40	23.00	1.445	0.247	22.2
Back side 21mm	15	QPSK 36_18	26865/831.5	1:1	0.169	0.120	-0.02	21.40	23.00	1.445	0.244	22.2
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.469	0.274	0.16	20.66	22.00	1.361	0.638	22.2
Back side	15	QPSK 1_0	26865/831.5	1:1	0.924	0.490	0.06	20.66	22.00	1.361	1.258	22.2
Back side-Repeated	15	QPSK 1_0	26865/831.5	1:1	0.897	0.424	0.06	20.66	22.00	1.361	1.221	22.2
Right side	15	QPSK 1_0	26865/831.5	1:1	0.357	0.225	0.19	20.66	22.00	1.361	0.486	22.2
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.732	0.369	0.06	20.66	22.00	1.361	0.996	22.2
Back side with	15	QPSK 1_0	26865/831.5	1:1	0.851	0.463	-0.10	20.66	22.00	1.361	1.158	22.2



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 123 of 157

Sample2												
Back side with Sample3	15	QPSK 1_0	26865/831.5	1:1	0.828	0.434	0.14	20.66	22.00	1.361	1.127	22.2
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	15	QPSK 36_18	26865/831.5	1:1	0.374	0.216	-0.12	20.36	22.00	1.459	0.546	22.2
Back side	15	QPSK 36_18	26865/831.5	1:1	0.725	0.406	0.15	20.36	22.00	1.459	1.058	22.2
Right side	15	QPSK 36_18	26865/831.5	1:1	0.353	0.118	0.11	20.36	22.00	1.459	0.515	22.2
Bottom side	15	QPSK 36_18	26865/831.5	1:1	0.540	0.270	0.05	20.36	22.00	1.459	0.788	22.2
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Back side	15	QPSK 75_0	26865/831.5	1:1	0.794	0.435	-0.09	20.42	22.00	1.439	1.143	22.2
Bottom side	15	QPSK 75_0	26865/831.5	1:1	0.615	0.283	0.15	20.42	22.00	1.439	0.885	22.2
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)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) ECI 4												
Back side	15	QPSK 1_0	26865/831.5	1:1	3.040	1.590	0.03	22.37	24.00	1.455	2.313	22.2
Bottom side	15	QPSK 1_0	26865/831.5	1:1	4.860	1.880	-0.02	22.37	24.00	1.455	2.735	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) ECI 4												
Back side	15	QPSK 36_18	26865/831.5	1:1	2.580	1.260	0.10	21.40	23.00	1.445	1.821	22.2
Bottom side	15	QPSK 36_18	26865/831.5	1:1	2.810	1.370	0.07	21.40	23.00	1.445	1.980	22.2
Product specific 10g SAR Test data (Separate 0mm 100%RB) ECI 4												
Back side	15	QPSK 75_0	26865/831.5	1:1	2.230	0.890	-0.05	21.42	23.00	1.439	1.281	22.2
Bottom side	15	QPSK 75_0	26865/831.5	1:1	2.750	1.020	0.08	21.42	23.00	1.439	1.468	22.2

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side 5mm	26865/831.5	0.924	0.897	1.030	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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8.3.11 SAR Result of LTE Band 38

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) ECI 2												
Left cheek	20	QPSK 1_0	38000/2595	1:1.58	0.231	0.111	0.12	17.36	19.00	1.459	0.337	22.1
Left tilted	20	QPSK 1_0	38000/2595	1:1.58	0.391	0.200	-0.10	17.36	19.00	1.459	0.570	22.1
Right cheek	20	QPSK 1_0	38000/2595	1:1.58	0.528	0.239	-0.02	17.36	19.00	1.459	0.770	22.1
Right tilted	20	QPSK 1_0	38000/2595	1:1.58	0.606	0.250	0.01	17.36	19.00	1.459	0.884	22.1
Right tilted with Sample2	20	QPSK 1_0	38000/2595	1:1.58	0.567	0.219	0.19	17.36	19.00	1.459	0.827	22.1
Right tilted with Sample3	20	QPSK 1_0	38000/2595	1:1.58	0.546	0.198	0.15	17.36	19.00	1.459	0.797	22.1
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_25	38000/2595	1:1.58	0.182	0.088	-0.02	17.48	19.00	1.419	0.258	22.1
Left tilted	20	QPSK 50_25	38000/2595	1:1.58	0.206	0.094	-0.12	17.48	19.00	1.419	0.292	22.1
Right cheek	20	QPSK 50_25	38000/2595	1:1.58	0.466	0.215	-0.01	17.48	19.00	1.419	0.661	22.1
Right tilted	20	QPSK 50_25	38000/2595	1:1.58	0.575	0.241	-0.19	17.48	19.00	1.419	0.816	22.1
Head Test Data (100%RB) ECI 2												
Right tilted	20	QPSK 100_0	38000/2595	1:1.58	0.507	0.228	-0.18	17.19	19.00	1.517	0.769	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.104	0.055	0.18	14.77	16.50	1.489	0.155	22.1
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.448	0.179	0.04	14.77	16.50	1.489	0.667	22.1
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_25	38000/2595	1:1.58	0.094	0.044	0.17	14.66	16.50	1.528	0.144	22.1
Back side	20	QPSK 50_25	38000/2595	1:1.58	0.314	0.134	-0.07	14.66	16.50	1.528	0.480	22.1
Body worn Test data (1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_0	38000/2595	1:1.58	0.163	0.093	0.10	22.18	24.00	1.521	0.248	22.1
Back side 19mm	20	QPSK 1_0	38000/2595	1:1.58	0.290	0.130	-0.04	22.18	24.00	1.521	0.441	22.1
Body worn Test data (50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_25	38000/2595	1:1.58	0.147	0.076	0.17	21.06	23.00	1.563	0.230	22.1
Back side 19mm	20	QPSK 50_25	38000/2595	1:1.58	0.250	0.101	0.15	21.06	23.00	1.563	0.391	22.1
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_0	38000/2595	1:1.58	0.074	0.039	-0.02	13.26	15.00	1.493	0.110	22.1
Back side	20	QPSK 1_0	38000/2595	1:1.58	0.317	0.127	-0.08	13.26	15.00	1.493	0.473	22.1
Left side	20	QPSK 1_0	38000/2595	1:1.58	0.116	0.055	-0.17	13.26	15.00	1.493	0.173	22.1
Top side	20	QPSK 1_0	38000/2595	1:1.58	0.261	0.098	-0.05	13.26	15.00	1.493	0.390	22.1
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_25	38000/2595	1:1.58	0.067	0.031	0.12	13.13	15.00	1.538	0.103	22.1
Back side	20	QPSK 50_25	38000/2595	1:1.58	0.223	0.095	-0.12	13.13	15.00	1.538	0.343	22.1
Left side	20	QPSK 50_25	38000/2595	1:1.58	0.096	0.046	-0.10	13.13	15.00	1.538	0.148	22.1
Top side	20	QPSK 50_25	38000/2595	1:1.58	0.198	0.076	0.15	13.13	15.00	1.538	0.305	22.1



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 125 of 157

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 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 11												
Back side	20	QPSK 1_0	38000/2595	1:1.58	1.950	0.842	-0.15	20.64	22.50	1.535	1.292	22.1
Left side	20	QPSK 1_0	38000/2595	1:1.58	2.360	0.987	-0.07	20.64	22.50	1.535	1.515	22.1
Top side	20	QPSK 1_0	38000/2595	1:1.58	4.190	1.290	-0.07	20.64	22.50	1.535	1.980	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 11												
Back side	20	QPSK 50_25	38000/2595	1:1.58	1.780	0.708	0.19	20.59	22.50	1.552	1.099	22.1
Left side	20	QPSK 50_25	38000/2595	1:1.58	2.210	0.866	0.02	20.59	22.50	1.552	1.344	22.1
Top side	20	QPSK 50_25	38000/2595	1:1.58	2.980	1.090	0.03	20.59	22.50	1.552	1.692	22.1
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor off ECI 4												
Back side 11mm	20	QPSK 1_0	38000/2595	1:1.58	0.419	0.199	0.13	22.18	24.00	1.521	0.303	22.1
Left side 5mm	20	QPSK 1_0	38000/2595	1:1.58	1.020	0.476	-0.04	22.18	24.00	1.521	0.724	22.1
Top side 14mm	20	QPSK 1_0	38000/2595	1:1.58	0.425	0.198	0.08	22.18	24.00	1.521	0.301	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off ECI 4												
Back side 11mm	20	QPSK 50_25	38000/2595	1:1.58	0.346	0.163	0.04	21.06	23.00	1.563	0.255	22.1
Left side 5mm	20	QPSK 50_25	38000/2595	1:1.58	0.967	0.443	0.04	21.06	23.00	1.563	0.692	22.1
Top side 14mm	20	QPSK 50_25	38000/2595	1:1.58	0.359	0.162	0.18	21.06	23.00	1.563	0.253	22.1



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 126 of 157

8.3.12 SAR Result of LTE Band 41

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) ECI 2												
Left cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.199	0.097	0.01	19.92	20.50	1.143	0.227	22.2
Left tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.246	0.112	-0.19	19.92	20.50	1.143	0.281	22.2
Right cheek	20	QPSK 1_0	41055/2636.5	1:1.58	0.644	0.319	-0.19	19.92	20.50	1.143	0.736	22.2
Right tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.722	0.302	0.03	19.92	20.50	1.143	0.825	22.2
Right cheek	20	QPSK 1_0	39750/2506	1:1.58	0.601	0.254	-0.19	19.72	20.50	1.197	0.719	22.2
Right cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.481	0.207	-0.04	19.75	20.50	1.189	0.572	22.2
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.458	0.210	0.12	19.84	20.50	1.164	0.533	22.2
Right cheek	20	QPSK 1_0	41490/2680	1:1.58	0.387	0.196	0.16	19.84	20.50	1.164	0.450	22.2
Right tilted	20	QPSK 1_0	39750/2506	1:1.58	0.675	0.285	-0.09	19.72	20.50	1.197	0.808	22.2
Right tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.540	0.233	0.16	19.75	20.50	1.189	0.642	22.2
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.515	0.236	0.15	19.84	20.50	1.164	0.599	22.2
Right tilted	20	QPSK 1_0	41490/2680	1:1.58	0.435	0.220	0.02	19.84	20.50	1.164	0.506	22.2
Right tilted-PC2	20	QPSK 1_0	41055/2636.5	1:2.31	0.651	0.286	-0.02	21.51	22.50	1.256	0.818	22.2
Right tilted	20	QPSK PCC 1_0	41055/2636.5	1:1.58	0.697	0.247	-0.09	20.08	20.50	1.102	0.768	22.2
		QPSK SCC 1_99	40857/2616.7									
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_0	41055/2636.5	1:1.58	0.164	0.093	-0.01	19.87	20.50	1.156	0.190	22.2
Left tilted	20	QPSK 50_0	41055/2636.5	1:1.58	0.193	0.088	0.17	19.87	20.50	1.156	0.223	22.2
Right cheek	20	QPSK 50_0	41055/2636.5	1:1.58	0.484	0.242	0.11	19.87	20.50	1.156	0.560	22.2
Right tilted	20	QPSK 50_0	41055/2636.5	1:1.58	0.514	0.249	-0.14	19.87	20.50	1.156	0.594	22.2
Head Test Data (100%RB) ECI 2												
Right tilted	20	QPSK 100_0	41055/2636.5	1:1.58	0.542	0.254	-0.10	19.75	20.50	1.189	0.644	22.2
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_0	41055/2636.5	1:1.58	0.210	0.101	0.15	18.29	19.00	1.178	0.247	22.2
Back side	20	QPSK 1_0	41055/2636.5	1:1.58	0.694	0.269	0.03	18.29	19.00	1.178	0.818	22.2
Back side	20	QPSK 1_0	39750/2506	1:1.58	0.499	0.215	-0.03	18.13	19.00	1.222	0.610	22.2
Back side	20	QPSK 1_0	40185/2549.5	1:1.58	0.427	0.179	-0.13	18.24	19.00	1.191	0.509	22.2
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.449	0.185	0.03	18.17	19.00	1.211	0.544	22.2
Back side	20	QPSK 1_0	41490/2680	1:1.58	0.430	0.182	-0.15	18.26	19.00	1.186	0.510	22.2
Back side -PC2	20	QPSK 1_0	41490/2680	1:2.31	0.668	0.223	-0.11	20.17	21.00	1.211	0.809	22.2
Back side	20	QPSK PCC 1_0	41055/2636.5	1:1.58	0.675	0.254	0.16	18.57	19.00	1.104	0.745	22.2
		QPSK SCC 1_99	40857/2616.7									
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_0	41055/2636.5	1:1.58	0.169	0.084	-0.02	18.39	19.00	1.151	0.195	22.2
Back side	20	QPSK 50_0	41055/2636.5	1:1.58	0.596	0.230	0.16	18.39	19.00	1.151	0.686	22.2
Back side	20	QPSK 50_0	39750/2506	1:1.58	0.521	0.223	-0.06	17.99	19.00	1.262	0.658	22.2



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 127 of 157

Back side	20	QPSK 50_0	40185/2549.5	1:1.58	0.439	0.184	0.04	18.14	19.00	1.219	0.535	22.2
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.443	0.183	0.00	18.19	19.00	1.205	0.534	22.2
Back side	20	QPSK 50_0	41490/2680	1:1.58	0.437	0.186	0.03	18.21	19.00	1.199	0.524	22.2
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	20	QPSK 100_0	41055/2636.5	1:1.58	0.496	0.164	0.07	18.31	19.00	1.172	0.581	22.2
Body worn Test data (1RB) Sensor off ECI 4 Class 3												
Front side 14mm	20	QPSK 1_0	41055/2636.5	1:1.58	0.151	0.083	0.13	23.04	24.00	1.247	0.188	22.2
Back side 19mm	20	QPSK 1_0	41055/2636.5	1:1.58	0.167	0.084	0.05	23.04	24.00	1.247	0.208	22.2
Body worn Test data (50%RB) Sensor off ECI 4 Class 3												
Front side 14mm	20	QPSK 50_0	41055/2636.5	1:1.58	0.127	0.071	0.08	21.98	23.00	1.265	0.161	22.2
Back side 19mm	20	QPSK 50_0	41055/2636.5	1:1.58	0.137	0.069	0.05	21.98	23.00	1.265	0.173	22.2
Body worn Test data (1RB) Sensor off ECI 4 Class 2												
Front side 14mm	20	QPSK 1_0	40185/2549.5	1:1.58	0.191	0.098	0.02	25.92	27.00	1.282	0.245	22.2
Back side 19mm	20	QPSK 1_0	40185/2549.5	1:1.58	0.267	0.133	0.12	25.92	27.00	1.282	0.342	22.2
Body worn Test data (50%RB) Sensor off ECI 4 Class 2												
Front side 14mm	20	QPSK 50_0	40185/2549.5	1:1.58	0.155	0.081	-0.05	24.89	26.00	1.291	0.200	22.2
Back side 19mm	20	QPSK 50_0	40185/2549.5	1:1.58	0.218	0.109	0.03	24.89	26.00	1.291	0.281	22.2
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_0	41055/2636.5	1:1.58	0.147	0.071	0.09	16.85	17.50	1.161	0.171	22.2
Back side	20	QPSK 1_0	41055/2636.5	1:1.58	0.486	0.199	0.04	16.85	17.50	1.161	0.564	22.2
Left side	20	QPSK 1_0	41055/2636.5	1:1.58	0.182	0.088	0.07	16.85	17.50	1.161	0.211	22.2
Top side	20	QPSK 1_0	41055/2636.5	1:1.58	0.404	0.141	0.01	16.85	17.50	1.161	0.469	22.2
Back side-PC2	20	QPSK 1_0	41055/2636.5	1:2.31	0.449	0.173	-0.16	18.55	19.50	1.245	0.559	22.2
Back side	20	QPSK PCC 1_0	41055/2636.5	1:1.58	0.451	0.236	-0.04	17.49	17.50	1.002	0.452	22.2
		QPSK SCC 1_99	40857/2616.7									
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_0	41055/2636.5	1:1.58	0.119	0.059	0.10	16.87	17.50	1.156	0.138	22.2
Back side	20	QPSK 50_0	41055/2636.5	1:1.58	0.404	0.161	0.15	16.87	17.50	1.156	0.467	22.2
Left side	20	QPSK 50_0	41055/2636.5	1:1.58	0.155	0.072	-0.17	16.87	17.50	1.156	0.179	22.2
Top side	20	QPSK 50_0	41055/2636.5	1:1.58	0.329	0.111	-0.04	16.87	17.50	1.156	0.380	22.2
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 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) ECI 11												
Back side	20	QPSK 1_0	41055/2636.5	1:1.58	2.120	0.987	-0.19	23.04	24.00	1.247	1.231	22.0
Top side	20	QPSK 1_0	41055/2636.5	1:1.58	5.450	1.650	-0.01	23.04	24.00	1.247	2.058	22.0
Top side	20	QPSK 1_0	39750/2506	1:1.58	5.210	1.570	-0.09	22.85	24.00	1.303	2.046	22.0
Top side	20	QPSK 1_0	40185/2549.5	1:1.58	5.320	1.590	0.05	22.89	24.00	1.291	2.053	22.0
Top side	20	QPSK 1_0	40620/2593	1:1.58	5.220	1.610	-0.19	22.95	24.00	1.274	2.051	22.0
Top side	20	QPSK 1_0	41490/2680	1:1.58	5.110	1.590	0.00	22.95	24.00	1.274	2.026	22.0
Top side-PC2	20	QPSK 1_0	41055/2636.5	1:2.31	5.230	1.560	-0.06	24.53	25.50	1.250	1.950	22.0
Top side	20	QPSK PCC 1_0	41055/2636.5	1:1.58	5.110	1.520	0.09	23.28	24.00	1.180	1.794	22.2
		QPSK SCC 1_99	40857/2616.7									



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 128 of 157

Product specific 10g SAR Test data (Separate 0mm 50%RB) ECI 11												
Back side	20	QPSK 50_0	41055/2636.5	1:1.58	1.908	0.888	0.03	21.98	23.00	1.265	1.123	22
Top side	20	QPSK 50_0	41055/2636.5	1:1.58	4.905	1.480	0.00	21.98	23.00	1.265	1.872	22
Product specific 10g SAR Test data (Separate 0mm 100%RB) ECI 11												
Top side	20	QPSK 100_0	41055/2636.5	1:1.58	4.870	1.430	0.06	22.01	23.00	1.256	1.796	22
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor off ECI 4 Class 3												
Back side 11mm	20	QPSK 1_0	41055/2636.5	1:1.58	0.224	0.113	-0.08	23.04	24.00	1.247	0.141	22
Top side 14mm	20	QPSK 1_0	41055/2636.5	1:1.58	0.381	0.171	-0.16	23.04	24.00	1.247	0.213	22
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off ECI 4 Class 3												
Back side 11mm	20	QPSK 50_0	41055/2636.5	1:1.58	0.183	0.094	0.01	21.98	23.00	1.265	0.119	22
Top side 14mm	20	QPSK 50_0	41055/2636.5	1:1.58	0.299	0.136	-0.17	21.98	23.00	1.265	0.172	22
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor off ECI 4 Class 2												
Back side 11mm	20	QPSK 1_0	40185/2549.5	1:1.58	0.532	0.215	-0.04	25.92	27.00	1.282	0.276	22
Top side 14mm	20	QPSK 1_0	40185/2549.5	1:1.58	0.712	0.423	-0.19	25.92	27.00	1.282	0.542	22
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off ECI 4 Class 2												
Back side 11mm	20	QPSK 50_0	40185/2549.5	1:1.58	0.519	0.200	-0.01	24.89	26.00	1.291	0.258	22
Top side 14mm	20	QPSK 50_0	40185/2549.5	1:1.58	0.678	0.416	0.17	24.89	26.00	1.291	0.537	22
Ant 1 Test Record ENDC												
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) ECI 2												
Left cheek	20	QPSK 1_50	41490/2680	1:1.58	0.261	0.139	-0.18	22.39	24.00	1.449	0.378	22
Left tilted	20	QPSK 1_50	41490/2680	1:1.58	0.074	0.039	-0.15	22.39	24.00	1.449	0.107	22
Right cheek	20	QPSK 1_50	41490/2680	1:1.58	0.152	0.085	0.07	22.39	24.00	1.449	0.220	22
Right tilted	20	QPSK 1_50	41490/2680	1:1.58	0.119	0.061	0.03	22.39	24.00	1.449	0.172	22
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_25	41490/2680	1:1.58	0.235	0.125	-0.16	21.41	23.00	1.442	0.339	22
Left tilted	20	QPSK 50_25	41490/2680	1:1.58	0.067	0.035	0.00	21.41	23.00	1.442	0.097	22
Right cheek	20	QPSK 50_25	41490/2680	1:1.58	0.137	0.077	-0.10	21.41	23.00	1.442	0.198	22
Right tilted	20	QPSK 50_25	41490/2680	1:1.58	0.107	0.055	0.03	21.41	23.00	1.442	0.154	22
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	20	QPSK 1_50	41490/2680	1:1.58	0.378	0.190	0.11	16.43	18.00	1.435	0.542	22
Back side	20	QPSK 1_50	41490/2680	1:1.58	0.834	0.377	0.06	16.43	18.00	1.435	1.197	22
Back side- Repeated	20	QPSK 1_50	41490/2680	1:1.58	0.808	0.302	-0.01	16.43	18.00	1.435	1.159	22
Back side	20	QPSK 1_50	39750/2506	1:1.58	0.687	0.329	0.14	16.28	18.00	1.486	1.021	22
Back side	20	QPSK 1_50	40185/2549.5	1:1.58	0.710	0.335	-0.11	16.39	18.00	1.449	1.029	22
Back side	20	QPSK 1_50	40620/2593	1:1.58	0.736	0.349	0.18	16.29	18.00	1.483	1.091	22
Back side	20	QPSK 1_50	41055/2636.5	1:1.58	0.733	0.344	-0.14	16.40	18.00	1.445	1.059	22
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	20	QPSK 50_25	41490/2680	1:1.58	0.392	0.194	0.02	16.45	18.00	1.429	0.560	22
Back side	20	QPSK 50_25	41490/2680	1:1.58	0.797	0.375	0.09	16.45	18.00	1.429	1.139	22
Back side	20	QPSK 50_25	39750/2506	1:1.58	0.687	0.324	0.17	16.36	18.00	1.459	1.002	22
Back side	20	QPSK 50_25	40185/2549.5	1:1.58	0.707	0.332	0.08	16.37	18.00	1.455	1.029	22



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 129 of 157

Back side	20	QPSK 50_25	40620/2593	1:1.58	0.733	0.341	0.03	16.35	18.00	1.462	1.072	22
Back side	20	QPSK 50_25	41055/2636.5	1:1.58	0.747	0.344	0.06	16.36	18.00	1.459	1.090	22
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	20	QPSK 100_0	41490/2680	1:1.58	0.650	0.295	-0.04	16.30	18.00	1.479	0.961	22
Body worn Test data (1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_50	41490/2680	1:1.58	0.462	0.245	0.12	22.39	24.00	1.449	0.669	22
Back side 19mm	20	QPSK 1_50	41490/2680	1:1.58	0.340	0.179	0.14	22.39	24.00	1.449	0.493	22
Body worn Test data (50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_25	41490/2680	1:1.58	0.457	0.242	-0.15	21.41	23.00	1.442	0.659	22
Back side 19mm	20	QPSK 50_25	41490/2680	1:1.58	0.341	0.179	-0.04	21.41	23.00	1.442	0.492	22
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_50	41490/2680	1:1.58	0.398	0.192	-0.19	16.43	18.00	1.435	0.571	22
Back side	20	QPSK 1_50	41490/2680	1:1.58	0.834	0.377	0.06	16.43	18.00	1.435	1.197	22
Back side-Repeated	20	QPSK 1_50	41490/2680	1:1.58	0.808	0.302	-0.01	16.43	18.00	1.435	1.159	22
Left side	20	QPSK 1_50	41490/2680	1:1.58	0.208	0.135	0.07	16.43	18.00	1.435	0.298	22
Bottom side	20	QPSK 1_50	41490/2680	1:1.58	0.616	0.267	0.03	16.43	18.00	1.435	0.884	22
Back side	20	QPSK 1_50	39750/2506	1:1.58	0.750	0.361	0.10	16.28	18.00	1.486	1.115	22
Back side	20	QPSK 1_50	40185/2549.5	1:1.58	0.772	0.369	0.06	16.39	18.00	1.449	1.119	22
Back side	20	QPSK 1_50	40620/2593	1:1.58	0.792	0.378	-0.10	16.29	18.00	1.483	1.175	22
Back side	20	QPSK 1_50	41055/2636.5	1:1.58	0.765	0.383	0.18	16.30	18.00	1.479	1.131	22
Bottom side	20	QPSK 1_50	39750/2506	1:1.58	0.598	0.258	0.02	16.28	18.00	1.486	0.889	22
Bottom side	20	QPSK 1_50	40185/2549.5	1:1.58	0.578	0.249	0.06	16.39	18.00	1.449	0.838	22
Bottom side	20	QPSK 1_50	40620/2593	1:1.58	0.569	0.255	-0.08	16.29	18.00	1.483	0.844	22
Bottom side	20	QPSK 1_50	41055/2636.5	1:1.58	0.556	0.236	0.04	16.30	18.00	1.479	0.822	22
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_25	41490/2680	1:1.58	0.365	0.176	0.09	16.45	18.00	1.429	0.522	22
Back side	20	QPSK 50_25	41490/2680	1:1.58	0.685	0.225	-0.16	16.45	18.00	1.429	0.979	22
Left side	20	QPSK 50_25	41490/2680	1:1.58	0.163	0.077	0.07	16.45	18.00	1.429	0.233	22
Bottom side	20	QPSK 50_25	41490/2680	1:1.58	0.568	0.143	-0.18	16.45	18.00	1.429	0.812	22
Back side	20	QPSK 50_25	39750/2506	1:1.58	0.685	0.168	0.18	16.36	18.00	1.459	0.999	22
Back side	20	QPSK 50_25	40185/2549.5	1:1.58	0.598	0.194	0.11	16.37	18.00	1.455	0.870	22
Back side	20	QPSK 50_25	40620/2593	1:1.58	0.634	0.164	0.12	16.35	18.00	1.462	0.927	22
Back side	20	QPSK 50_25	41055/2636.5	1:1.58	0.647	0.225	-0.10	16.36	18.00	1.459	0.944	22
Bottom side	20	QPSK 50_25	39750/2506	1:1.58	0.536	0.136	-0.08	16.36	18.00	1.459	0.782	22
Bottom side	20	QPSK 50_25	40185/2549.5	1:1.58	0.547	0.129	0.04	16.37	18.00	1.455	0.796	22
Bottom side	20	QPSK 50_25	40620/2593	1:1.58	0.523	0.125	0.07	16.35	18.00	1.462	0.765	22
Bottom side	20	QPSK 50_25	41055/2636.5	1:1.58	0.516	0.102	0.02	16.36	18.00	1.459	0.753	22
Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Back side	20	QPSK 100_0	41490/2680	1:1.58	0.745	0.268	0.09	16.30	18.00	1.479	1.102	22
Bottom side	20	QPSK 100_0	41490/2680	1:1.58	0.563	0.143	-0.06	16.30	18.00	1.479	0.833	22
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 10-g SAR(W/kg)	Liquid Temp.



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 130 of 157

Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 10												
Front side	20	QPSK 1_50	41490/2680	1:1.58	1.970	0.810	-0.08	18.44	20.00	1.432	1.160	22
Back side	20	QPSK 1_50	41490/2680	1:1.58	5.050	1.920	0.03	18.44	20.00	1.432	2.749	22
Bottom side	20	QPSK 1_50	41490/2680	1:1.58	2.370	1.030	-0.15	18.44	20.00	1.432	1.475	22
Back side	20	QPSK 1_50	39750/2506	1:1.58	3.840	1.510	-0.11	18.35	20.00	1.462	2.208	22
Back side	20	QPSK 1_50	41055/2636.5	1:1.58	3.960	1.520	-0.06	18.36	20.00	1.459	2.218	22
Back side	20	QPSK 1_50	40185/2549.5	1:1.58	3.960	1.550	0.06	18.31	20.00	1.476	2.288	22
Back side	20	QPSK 1_50	40620/2593	1:1.58	4.050	1.580	0.02	18.39	20.00	1.449	2.289	22
Product specific 10g SAR Test data (Separate 0mm 50%RB) ECI 10												
Front side	20	QPSK 50_25	41490/2680	1:1.58	1.030	0.590	0.05	18.45	20.00	1.429	0.843	22
Back side	20	QPSK 50_25	41490/2680	1:1.58	2.160	0.986	-0.10	18.45	20.00	1.429	1.409	22
Bottom side	20	QPSK 50_25	41490/2680	1:1.58	1.670	0.760	0.07	18.45	20.00	1.429	1.086	22
Back side	20	QPSK 50_25	39750/2506	1:1.58	1.780	0.880	-0.02	18.35	20.00	1.462	1.287	22
Back side	20	QPSK 50_25	41055/2636.5	1:1.58	2.360	0.290	-0.15	18.41	20.00	1.442	0.418	22
Back side	20	QPSK 50_25	40185/2549.5	1:1.58	2.140	0.970	0.06	18.40	20.00	1.445	1.402	22
Back side	20	QPSK 50_25	40620/2593	1:1.58	1.820	0.850	0.08	18.33	20.00	1.469	1.249	22
Product specific 10g SAR Test data (Separate 0mm 100%RB) ECI 10												
Bottom side	20	QPSK 100_0	41490/2680	1:1.58	3.390	1.150	-0.15	18.42	20.00	1.439	1.655	22
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor off ECI 4												
Front side 8mm	20	QPSK 1_50	41490/2680	1:1.58	0.492	0.252	-0.02	22.39	24.00	1.449	0.365	22
Back side 11mm	20	QPSK 1_50	41490/2680	1:1.58	0.664	0.324	-0.02	22.39	24.00	1.449	0.469	22
Bottom side 13mm	20	QPSK 1_50	41490/2680	1:1.58	0.320	0.156	0.06	22.39	24.00	1.449	0.226	22
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off ECI 4												
Front side 8mm	20	QPSK 50_25	41490/2680	1:1.58	0.493	0.250	-0.18	21.41	23.00	1.442	0.361	22
Back side 11mm	20	QPSK 50_25	41490/2680	1:1.58	0.617	0.305	0.16	21.41	23.00	1.442	0.440	22
Bottom side 13mm	20	QPSK 50_25	41490/2680	1:1.58	0.274	0.137	0.02	21.41	23.00	1.442	0.198	22

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side 5mm	41490/2680	0.834	0.808	1.032	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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8.3.13 SAR Result of LTE Band 42

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) ECI 2												
Left cheek	20	QPSK 1_99	42990/3540	1:1.58	0.591	0.276	0.02	18.82	19.50	1.169	0.691	22.1
Left tilted	20	QPSK 1_99	42990/3540	1:1.58	0.733	0.281	-0.04	18.82	19.50	1.169	0.857	22.1
Right cheek	20	QPSK 1_99	42990/3540	1:1.58	0.395	0.177	0.07	18.82	19.50	1.169	0.462	22.1
Right tilted	20	QPSK 1_99	42990/3540	1:1.58	0.413	0.176	-0.02	18.82	19.50	1.169	0.483	22.1
Left tilted	20	QPSK 1_99	42190/3460	1:1.58	0.616	0.245	0.05	18.25	19.50	1.334	0.822	22.1
Left tilted	20	QPSK 1_99	42590/3500	1:1.58	0.641	0.255	-0.10	18.38	19.50	1.294	0.829	22.1
Left tilted	20	QPSK PCC 1_99	42590/3500	1:1.58	0.623	0.157	-0.15	18.19	19.50	1.352	0.842	22.1
		QPSK SCC 1_0	42788/3519.8									
Head Test Data (50%RB) ECI 2												
Left cheek	20	QPSK 50_50	42990/3540	1:1.58	0.565	0.248	-0.03	18.74	19.50	1.191	0.673	22.1
Left tilted	20	QPSK 50_50	42990/3540	1:1.58	0.576	0.241	-0.16	18.74	19.50	1.191	0.686	22.1
Right cheek	20	QPSK 50_50	42990/3540	1:1.58	0.319	0.142	-0.02	18.74	19.50	1.191	0.380	22.1
Right tilted	20	QPSK 50_50	42990/3540	1:1.58	0.338	0.142	0.07	18.74	19.50	1.191	0.403	22.1
Head Test Data (100%RB) ECI 2												
Left tilted	20	QPSK 100_0	42990/3540	1:1.58	0.586	0.245	-0.05	18.68	19.50	1.208	0.708	22.1
Body worn Test data (Separate 5mm 1RB) ECI 3												
Front side	20	QPSK 1_99	42990/3540	1:1.58	0.122	0.053	-0.01	16.82	17.50	1.169	0.143	22.1
Back side	20	QPSK 1_99	42990/3540	1:1.58	0.498	0.208	0.03	16.82	17.50	1.169	0.582	22.1
Back side	20	QPSK PCC 1_99	42590/3500	1:1.58	0.352	0.168	-0.16	16.39	17.50	1.291	0.454	22.1
		QPSK SCC 1_0	42788/3519.8									
Body worn Test data (Separate 5mm 50%RB) ECI 3												
Front side	20	QPSK 50_50	42990/3540	1:1.58	0.097	0.043	0.05	16.66	17.50	1.213	0.118	22.1
Back side	20	QPSK 50_50	42990/3540	1:1.58	0.379	0.147	0.12	16.66	17.50	1.213	0.460	22.1
Body worn Test data (Separate 5mm 1RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 1_99	42990/3540	1:1.58	0.114	0.054	0.06	23.33	24.00	1.167	0.133	22.1
Back side 19mm	20	QPSK 1_99	42990/3540	1:1.58	0.195	0.092	0.16	23.33	24.00	1.167	0.228	22.1
Body worn Test data (Separate 5mm 50%RB) Sensor off ECI 4												
Front side 14mm	20	QPSK 50_50	42990/3540	1:1.58	0.115	0.054	-0.08	22.23	23.00	1.194	0.137	22.1
Back side 19mm	20	QPSK 50_50	42990/3540	1:1.58	0.165	0.078	0.06	22.23	23.00	1.194	0.197	22.1
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	20	QPSK 1_99	42990/3540	1:1.58	0.098	0.042	0.05	15.38	16.00	1.153	0.113	22.1
Back side	20	QPSK 1_99	42990/3540	1:1.58	0.369	0.152	0.09	15.38	16.00	1.153	0.425	22.1
Right side	20	QPSK 1_99	42990/3540	1:1.58	0.029	0.014	0.17	15.38	16.00	1.153	0.033	22.1
Top side	20	QPSK 1_99	42990/3540	1:1.58	0.162	0.066	0.06	15.38	16.00	1.153	0.187	22.1
Back side	20	QPSK PCC 1_99	42590/3500	1:1.58	0.298	0.124	0.15	14.86	16.00	1.300	0.387	22.1
		QPSK SCC 1_0	42788/3519.8									
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	20	QPSK 50_50	42990/3540	1:1.58	0.078	0.034	-0.19	15.27	16.00	1.183	0.092	22.1



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 132 of 157

Back side	20	QPSK 50_50	42990/3540	1:1.58	0.303	0.118	-0.12	15.27	16.00	1.183	0.358	22.1
Right side	20	QPSK 50_50	42990/3540	1:1.58	0.024	0.011	0.01	15.27	16.00	1.183	0.028	22.1
Top side	20	QPSK 50_50	42990/3540	1:1.58	0.128	0.053	0.06	15.27	16.00	1.183	0.151	22.1
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 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on ECI 12												
Back side	20	QPSK 1_99	42990/3540	1:1.58	2.940	1.190	0.07	20.14	21.00	1.219	1.451	22.1
Back side	20	QPSK PCC 1_99	42590/3500	1:1.58	2.540	1.060	0.02	20.19	21.00	1.205	1.277	22.1
		QPSK SCC 1_0	42788/3519.8									
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on ECI 12												
Back side	20	QPSK 50_50	42990/3540	1:1.58	2.940	1.080	0.11	20.16	21.00	1.213	1.310	22.1
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor off ECI 4												
Back side 5mm	20	QPSK 1_99	42990/3540	1:1.58	0.742	0.318	-0.15	23.33	24.00	1.167	0.371	22.1
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor off ECI 4												
Back side 5mm	20	QPSK 50_50	42990/3540	1:1.58	0.633	0.272	0.14	22.23	23.00	1.194	0.325	22.1



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

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) ECI 2												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.475	0.213	0.00	13.38	14.50	1.294	0.615	22.1
Left tilted	100	QPSK 1_271	633334/3500	100%	0.548	0.211	0.09	13.38	14.50	1.294	0.709	22.1
Right cheek	100	QPSK 1_271	633334/3500	100%	0.295	0.134	-0.02	13.38	14.50	1.294	0.382	22.1
Right tilted	100	QPSK 1_271	633334/3500	100%	0.340	0.141	-0.02	13.38	14.50	1.294	0.440	22.1
Head Test Data (50%RB) ECI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.448	0.202	0.16	13.30	14.50	1.318	0.590	22.1
Left tilted	100	QPSK 135_69	633334/3500	100%	0.457	0.199	-0.09	13.30	14.50	1.318	0.602	22.1
Right cheek	100	QPSK 135_69	633334/3500	100%	0.291	0.131	-0.10	13.30	14.50	1.318	0.384	22.1
Right tilted	100	QPSK 135_69	633334/3500	100%	0.343	0.141	0.04	13.30	14.50	1.318	0.452	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_271	633334/3500	100%	0.123	0.051	0.03	14.92	16.00	1.282	0.158	22.2
Back side	100	QPSK 1_271	633334/3500	100%	0.538	0.217	0.07	14.92	16.00	1.282	0.690	22.2
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	633334/3500	100%	0.117	0.051	-0.11	14.77	16.00	1.327	0.155	22.2
Back side	100	QPSK 135_69	633334/3500	100%	0.590	0.240	0.00	14.77	16.00	1.327	0.783	22.2
Body worn Test data (Separate 5mm 1RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 1_271	633334/3500	100%	0.354	0.165	0.06	25.94	27.00	1.276	0.452	22.2
Back side 19mm	100	QPSK 1_271	633334/3500	100%	0.478	0.225	-0.02	25.94	27.00	1.276	0.610	22.2
Body worn Test data (Separate 5mm 50%RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 135_69	633334/3500	100%	0.332	0.155	0.06	25.83	27.00	1.309	0.435	22.2
Back side 19mm	100	QPSK 135_69	633334/3500	100%	0.497	0.235	-0.05	25.83	27.00	1.309	0.651	22.2
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_271	633334/3500	100%	0.100	0.042	-0.10	13.38	14.50	1.294	0.129	22.2
Back side	100	QPSK 1_271	633334/3500	100%	0.439	0.177	0.05	13.38	14.50	1.294	0.568	22.2
Right side	100	QPSK 1_271	633334/3500	100%	0.028	0.013	-0.15	13.38	14.50	1.294	0.036	22.2
Top side	100	QPSK 1_271	633334/3500	100%	0.148	0.063	0.12	13.38	14.50	1.294	0.192	22.2
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	633334/3500	100%	0.095	0.042	0.00	13.30	14.50	1.318	0.125	22.2
Back side	100	QPSK 135_69	633334/3500	100%	0.449	0.193	-0.01	13.30	14.50	1.318	0.592	22.2
Right side	100	QPSK 135_69	633334/3500	100%	0.025	0.013	0.13	13.30	14.50	1.318	0.033	22.2
Top side	100	QPSK 135_69	633334/3500	100%	0.139	0.059	0.14	13.30	14.50	1.318	0.183	22.2
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 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm 1RB) sensor on ECI 12												
Front side	100	QPSK 1_271	633334/3500	100%	1.490	0.570	0.15	19.97	20.50	1.130	0.644	22.2
Back side	100	QPSK 1_271	633334/3500	100%	1.220	0.470	0.13	19.97	20.50	1.130	0.531	22.2
Top side	100	QPSK 1_271	633334/3500	100%	5.000	1.680	0.07	19.97	20.50	1.130	1.898	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) sensor on ECI 12												
Front side	100	QPSK 135_69	633334/3500	100%	1.580	0.570	0.08	19.75	20.50	1.189	0.678	22.2



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 134 of 157

Back side	100	QPSK 135_69	633334/3500	100%	1.150	0.490	0.07	19.75	20.50	1.189	0.583	22.2
Top side	100	QPSK 135_69	633334/3500	100%	3.670	1.390	-0.16	19.75	20.50	1.189	1.653	22.2
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor off ECI 4												
Front side 3mm	100	QPSK 1_271	633334/3500	100%	2.240	0.960	0.13	25.94	27.00	1.276	1.225	22.2
Back side 5mm	100	QPSK 1_271	633334/3500	100%	1.860	0.830	0.14	25.94	27.00	1.276	1.059	22.2
Top side 8mm	100	QPSK 1_271	633334/3500	100%	2.060	0.810	0.13	25.94	27.00	1.276	1.034	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off ECI 4												
Front side 3mm	100	QPSK 135_69	633334/3500	100%	2.020	0.890	-0.05	25.83	27.00	1.309	1.165	22.2
Back side 5mm	100	QPSK 135_69	633334/3500	100%	2.010	0.880	0.05	25.83	27.00	1.309	1.152	22.2
Top side 8mm	100	QPSK 135_69	633334/3500	100%	1.870	0.800	-0.15	25.83	27.00	1.309	1.047	22.2
Ant2 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) ECI 2												
Left cheek	100	QPSK 1_137	633334/3500	100%	0.164	0.085	0.18	24.29	25.00	1.178	0.193	22.3
Left tilted	100	QPSK 1_137	633334/3500	100%	0.092	0.045	-0.19	24.29	25.00	1.178	0.108	22.3
Right cheek	100	QPSK 1_137	633334/3500	100%	0.526	0.253	-0.01	24.29	25.00	1.178	0.620	22.3
Right tilted	100	QPSK 1_137	633334/3500	100%	0.256	0.114	0.10	24.29	25.00	1.178	0.302	22.3
Head Test Data (50%RB) ECI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.156	0.082	-0.05	24.34	25.00	1.164	0.182	22.3
Left tilted	100	QPSK 135_69	633334/3500	100%	0.091	0.045	-0.11	24.34	25.00	1.164	0.106	22.3
Right cheek	100	QPSK 135_69	633334/3500	100%	0.476	0.228	0.06	24.34	25.00	1.164	0.554	22.3
Right tilted	100	QPSK 135_69	633334/3500	100%	0.260	0.116	0.00	24.34	25.00	1.164	0.303	22.3
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_137	633334/3500	100%	0.196	0.096	-0.13	22.77	23.50	1.183	0.232	22.1
Back side	100	QPSK 1_137	633334/3500	100%	0.672	0.292	-0.18	22.77	23.50	1.183	0.795	22.1
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	633334/3500	100%	0.194	0.096	-0.02	22.87	23.50	1.156	0.224	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.716	0.286	-0.03	22.87	23.50	1.156	0.828	22.1
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	100	QPSK270_0	633334/3500	100%	0.657	0.168	-0.13	21.77	22.50	1.183	0.777	22.1
Body worn Test data (Separate 5mm 1RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 1_137	633334/3500	100%	0.140	0.070	-0.02	25.24	26.00	1.191	0.167	22.1
Back side 19mm	100	QPSK 1_137	633334/3500	100%	0.136	0.062	0.05	25.24	26.00	1.191	0.162	22.1
Body worn Test data (Separate 5mm 50%RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 135_69	633334/3500	100%	0.136	0.069	0.11	25.32	26.00	1.169	0.159	22.1
Back side 19mm	100	QPSK 135_69	633334/3500	100%	0.134	0.062	0.18	25.32	26.00	1.169	0.157	22.1
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_137	633334/3500	100%	0.136	0.062	-0.04	21.21	22.00	1.199	0.163	22.1
Back side	100	QPSK 1_137	633334/3500	100%	0.454	0.179	0.03	21.21	22.00	1.199	0.544	22.1
Left side	100	QPSK 1_137	633334/3500	100%	0.386	0.157	0.06	21.21	22.00	1.199	0.463	22.1
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	633334/3500	100%	0.121	0.053	0.13	21.30	22.00	1.175	0.142	22.1
Back side	100	QPSK 135_69	633334/3500	100%	0.480	0.187	0.02	21.30	22.00	1.175	0.564	22.1



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 135 of 157

Left side	100	QPSK 135_69	633334/3500	100%	0.373	0.146	0.11	21.30	22.00	1.175	0.438	22.1
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 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm 1RB) ECI 4												
Back side	100	QPSK 1_271	633334/3500	100%	1.610	0.605	-0.16	25.24	26.00	1.191	0.721	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) ECI 4												
Back side	100	QPSK 135_69	633334/3500	100%	1.730	0.684	0.17	25.32	26.00	1.169	0.800	22.2
Ant 8 Test Record SRS												
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) ECI 2												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.433	0.200	0.04	25.33	27.00	1.469	0.636	22.3
Left tilted	100	QPSK 1_271	633334/3500	100%	0.238	0.099	-0.02	25.33	27.00	1.469	0.350	22.3
Right cheek	100	QPSK 1_271	633334/3500	100%	0.157	0.081	0.15	25.33	27.00	1.469	0.231	22.3
Right tilted	100	QPSK 1_271	633334/3500	100%	0.113	0.053	-0.07	25.33	27.00	1.469	0.166	22.3
Head Test Data(50%RB) ECI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.402	0.187	0.12	25.34	27.00	1.466	0.589	22.3
Left tilted	100	QPSK 135_69	633334/3500	100%	0.204	0.086	-0.08	25.34	27.00	1.466	0.299	22.3
Right cheek	100	QPSK 135_69	633334/3500	100%	0.173	0.089	-0.03	25.34	27.00	1.466	0.254	22.3
Right tilted	100	QPSK 135_69	633334/3500	100%	0.090	0.041	-0.01	25.34	27.00	1.466	0.132	22.3
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_271	633334/3500	100%	0.048	0.022	-0.15	17.31	19.00	1.476	0.071	22.3
Back side	100	QPSK 1_271	633334/3500	100%	0.577	0.243	0.08	17.31	19.00	1.476	0.852	22.3
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	633334/3500	100%	0.041	0.019	-0.10	17.28	19.00	1.486	0.061	22.3
Back side	100	QPSK 135_69	633334/3500	100%	0.555	0.239	0.07	17.28	19.00	1.486	0.825	22.3
Body worn Test data (Separate 5mm 100%RB) Sensor on ECI 3												
Back side	100	QPSK270_0	633334/3500	100%	0.536	0.226	-0.07	16.22	18.00	1.507	0.808	22.3
Body worn Test data (Separate 5mm 1RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 1_271	633334/3500	100%	0.088	0.041	-0.08	25.33	27.00	1.469	0.129	22.3
Back side 19mm	100	QPSK 1_271	633334/3500	100%	0.219	0.109	-0.16	25.33	27.00	1.469	0.322	22.3
Body worn Test data (Separate 5mm 50%RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 135_69	633334/3500	100%	0.080	0.040	-0.07	25.34	27.00	1.466	0.117	22.3
Back side 19mm	100	QPSK 135_69	633334/3500	100%	0.206	0.104	-0.04	25.34	27.00	1.466	0.302	22.3
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_271	633334/3500	100%	0.036	0.016	-0.06	16.03	17.50	1.403	0.051	22.3
Back side	100	QPSK 1_271	633334/3500	100%	0.433	0.177	0.02	16.03	17.50	1.403	0.607	22.3
Right side	100	QPSK 1_271	633334/3500	100%	0.170	0.063	0.14	16.03	17.50	1.403	0.239	22.3
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	633334/3500	100%	0.037	0.017	0.07	16.00	17.50	1.413	0.052	22.3
Back side	100	QPSK 135_69	633334/3500	100%	0.437	0.184	0.05	16.00	17.50	1.413	0.617	22.3
Right side	100	QPSK 135_69	633334/3500	100%	0.143	0.059	-0.06	16.00	17.50	1.413	0.202	22.3



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 136 of 157

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 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm 1RB) ECI 4												
Back side	100	QPSK 1_271	633334/3500	100%	2.290	0.970	-0.09	25.33	27.00	1.469	1.425	22.2
Right side	100	QPSK 1_271	633334/3500	100%	3.410	1.050	0.01	25.33	27.00	1.469	1.542	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) ECI 4												
Back side	100	QPSK 135_69	633334/3500	100%	2.190	0.940	0.08	25.34	27.00	1.466	1.378	22.2
Right side	100	QPSK 135_69	633334/3500	100%	3.260	1.010	-0.01	25.34	27.00	1.466	1.481	22.2
Ant 1 Test Record SRS												
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) ECI 2												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.125	0.056	-0.07	24.09	25.00	1.233	0.154	22.2
Left tilted	100	QPSK 1_271	633334/3500	100%	0.054	0.025	0.05	24.09	25.00	1.233	0.067	22.2
Right cheek	100	QPSK 1_271	633334/3500	100%	0.073	0.035	-0.19	24.09	25.00	1.233	0.090	22.2
Right tilted	100	QPSK 1_271	633334/3500	100%	0.092	0.041	0.12	24.09	25.00	1.233	0.113	22.2
Head Test Data(50%RB) ECI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.140	0.065	-0.13	24.04	25.00	1.247	0.175	22.2
Left tilted	100	QPSK 135_69	633334/3500	100%	0.068	0.030	0.15	24.04	25.00	1.247	0.085	22.2
Right cheek	100	QPSK 135_69	633334/3500	100%	0.090	0.043	-0.18	24.04	25.00	1.247	0.112	22.2
Right tilted	100	QPSK 135_69	633334/3500	100%	0.120	0.053	0.19	24.04	25.00	1.247	0.150	22.2
Body worn Test data (Separate 5mm 1RB) ECI 4												
Front side	100	QPSK 1_271	633334/3500	100%	0.409	0.187	0.04	24.09	25.00	1.233	0.504	22.2
Back side	100	QPSK 1_271	633334/3500	100%	0.843	0.384	-0.02	24.09	25.00	1.233	1.039	22.2
Back side with Sample2	100	QPSK 1_271	633334/3500	100%	0.772	0.276	0.06	24.09	25.00	1.233	0.952	22.2
Back side with Sample3	100	QPSK 1_271	633334/3500	100%	0.725	0.261	0.02	24.09	25.00	1.233	0.894	22.2
Body worn Test data (Separate 5mm 50%RB) ECI 4												
Front side	100	QPSK 135_69	633334/3500	100%	0.431	0.192	-0.01	24.04	25.00	1.247	0.537	22.2
Back side	100	QPSK 135_69	633334/3500	100%	0.729	0.330	0.06	24.04	25.00	1.247	0.909	22.2
Body worn Test data (Separate 5mm 100%RB) ECI 4												
Back side	100	QPSK270_0	633334/3500	100%	0.706	0.287	0.11	23.03	24.00	1.250	0.883	22.2
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_271	633334/3500	100%	0.323	0.148	0.05	23.13	24.00	1.222	0.395	22.2
Back side	100	QPSK 1_271	633334/3500	100%	0.665	0.288	-0.12	23.13	24.00	1.222	0.813	22.2
Left side	100	QPSK 1_271	633334/3500	100%	0.254	0.105	0.01	23.13	24.00	1.222	0.310	22.2
Bottom side	100	QPSK 1_271	633334/3500	100%	0.709	0.289	0.05	23.13	24.00	1.222	0.866	22.2
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	633334/3500	100%	0.340	0.151	-0.06	23.10	24.00	1.230	0.418	22.2
Back side	100	QPSK 135_69	633334/3500	100%	0.575	0.260	0.18	23.10	24.00	1.230	0.707	22.2
Left side	100	QPSK 135_69	633334/3500	100%	0.281	0.117	-0.15	23.10	24.00	1.230	0.346	22.2
Bottom side	100	QPSK 135_69	633334/3500	100%	0.759	0.308	-0.06	23.10	24.00	1.230	0.934	22.2
Bottom side with Sample2	100	QPSK 135_69	633334/3500	100%	0.699	0.269	0.16	23.10	24.00	1.230	0.860	22.2
Bottom side with Sample3	100	QPSK 135_69	633334/3500	100%	0.610	0.227	0.07	23.10	24.00	1.230	0.750	22.2



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 137 of 157

Hotspot Test data (Separate 5mm 100%RB) ECI 7												
Back side	100	QPSK270_0	633334/3500	100%	0.568	0.216	-0.04	22.02	23.00	1.253	0.712	22.2
Bottom side	100	QPSK270_0	633334/3500	100%	0.658	0.347	0.01	22.02	23.00	1.253	0.824	22.2



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

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) ECI 2												
Left cheek	100	QPSK 1_137	657200/3858	100%	0.611	0.249	0.19	13.78	14.50	1.180	0.721	22.2
Left tilted	100	QPSK 1_137	657200/3858	100%	0.642	0.254	0.12	13.78	14.50	1.180	0.758	22.2
Right cheek	100	QPSK 1_137	657200/3858	100%	0.316	0.141	-0.04	13.78	14.50	1.180	0.373	22.2
Right tilted	100	QPSK 1_137	657200/3858	100%	0.358	0.157	-0.01	13.78	14.50	1.180	0.422	22.2
Left cheek	100	QPSK 1_137	654800/3822	100%	0.487	0.198	0.11	13.69	14.50	1.205	0.587	22.2
Left tilted	100	QPSK 1_137	654800/3822	100%	0.511	0.209	-0.02	13.69	14.50	1.205	0.616	22.2
Right tilted	100	QPSK 1_137	654800/3822	100%	0.298	0.126	0.19	13.69	14.50	1.205	0.359	22.2
Head Test Data (50%RB) ECI 2												
Left cheek	100	QPSK 135_69	657200/3858	100%	0.613	0.253	0.02	13.75	14.50	1.189	0.729	22.2
Left tilted	100	QPSK 135_69	657200/3858	100%	0.724	0.255	-0.03	13.75	14.50	1.189	0.861	22.2
Right cheek	100	QPSK 135_69	657200/3858	100%	0.307	0.138	-0.18	13.75	14.50	1.189	0.365	22.2
Right tilted	100	QPSK 135_69	657200/3858	100%	0.359	0.158	-0.16	13.75	14.50	1.189	0.427	22.2
Left cheek	100	QPSK 135_69	654800/3822	100%	0.357	0.214	0.04	13.65	14.50	1.216	0.434	22.2
Left tilted	100	QPSK 135_69	654800/3822	100%	0.475	0.253	0.18	13.65	14.50	1.216	0.578	22.2
Right tilted	100	QPSK 135_69	654800/3822	100%	0.298	0.198	-0.18	13.65	14.50	1.216	0.362	22.2
Left tilted with Sample2	100	QPSK 135_69	657200/3858	100%	0.684	0.192	-0.05	13.75	14.50	1.189	0.813	22.2
Left tilted with Sample3	100	QPSK 135_69	657200/3858	100%	0.647	0.164	0.14	13.75	14.50	1.189	0.769	22.2
Head Test Data (100%RB) ECI 2												
Left tilted	100	QPSK 135_69	657200/3858	100%	0.598	0.273	-0.04	12.74	13.50	1.191	0.712	22.2
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_137	657200/3858	100%	0.300	0.123	-0.06	15.25	16.00	1.189	0.357	22.2
Back side	100	QPSK 1_137	657200/3858	100%	0.654	0.250	0.01	15.25	16.00	1.189	0.778	22.2
Back side	100	QPSK 1_137	654800/3822	100%	0.489	0.187	0.14	15.20	16.00	1.202	0.588	22.2
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	657200/3858	100%	0.294	0.119	0.04	15.26	16.00	1.186	0.349	22.2
Back side	100	QPSK 135_69	657200/3858	100%	0.641	0.228	-0.06	15.26	16.00	1.186	0.760	22.2
Back side	100	QPSK 135_69	654800/3822	100%	0.466	0.172	0.15	15.25	16.00	1.189	0.554	22.2
Body worn Test data (Separate 5mm 1RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 1_137	657200/3858	100%	0.533	0.236	0.01	26.23	27.00	1.194	0.636	22.2
Back side 19mm	100	QPSK 1_137	657200/3858	100%	0.295	0.136	0.13	26.23	27.00	1.194	0.352	22.2
Front side 14mm	100	QPSK 1_137	654800/3822	100%	0.486	0.211	0.14	26.23	27.00	1.194	0.580	22.2
Body worn Test data (Separate 5mm 50%RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 135_69	657200/3858	100%	0.559	0.247	-0.07	26.22	27.00	1.197	0.669	22.2
Back side 19mm	100	QPSK 135_69	657200/3858	100%	0.300	0.137	0.04	26.22	27.00	1.197	0.359	22.2
Front side 14mm	100	QPSK 135_69	654800/3822	100%	0.493	0.218	-0.19	26.22	27.00	1.197	0.590	22.2
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_137	657200/3858	100%	0.191	0.078	0.05	13.78	14.50	1.180	0.225	22.2
Back side	100	QPSK 1_137	657200/3858	100%	0.406	0.156	-0.04	13.78	14.50	1.180	0.479	22.2
Right side	100	QPSK 1_137	657200/3858	100%	0.074	0.032	0.01	13.78	14.50	1.180	0.087	22.2



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 139 of 157

Top side	100	QPSK 1_137	657200/3858	100%	0.291	0.108	-0.01	13.78	14.50	1.180	0.343	22.2
Back side	100	QPSK 1_137	654800/3822	100%	0.326	0.135	0.15	13.69	14.50	1.205	0.393	22.2
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	657200/3858	100%	0.187	0.076	-0.09	13.75	14.50	1.189	0.222	22.2
Back side	100	QPSK 135_69	657200/3858	100%	0.385	0.145	-0.02	13.75	14.50	1.189	0.458	22.2
Right side	100	QPSK 135_69	657200/3858	100%	0.073	0.031	0.11	13.75	14.50	1.189	0.087	22.2
Top side	100	QPSK 135_69	657200/3858	100%	0.269	0.108	0.11	13.75	14.50	1.189	0.320	22.2
Back side	100	QPSK 135_69	657200/3858	100%	0.311	0.124	-0.06	13.65	14.50	1.216	0.378	22.2
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 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm 1RB) sensor on ECI 12												
Front side	100	QPSK 1_137	657200/3858	100%	3.690	1.240	0.10	19.81	20.50	1.172	1.453	22.2
Back side	100	QPSK 1_137	657200/3858	100%	1.350	0.480	0.18	19.81	20.50	1.172	0.563	22.2
Right side	100	QPSK 1_137	657200/3858	100%	0.630	0.270	0.00	19.81	20.50	1.172	0.316	22.2
Top side	100	QPSK 1_137	657200/3858	100%	5.930	1.800	-0.07	19.81	20.50	1.172	2.110	22.2
Front side	100	QPSK 1_137	654800/3822	100%	3.230	1.110	0.13	19.74	20.50	1.191	1.322	22.2
Top side	100	QPSK 1_137	654800/3822	100%	5.680	1.540	-0.04	19.74	20.50	1.191	1.834	22.2
Top side with Sample2	100	QPSK 1_137	657200/3858	100%	5.653	1.572	0.02	19.81	20.50	1.172	1.842	22.2
Top side with Sample3	100	QPSK 1_137	657200/3858	100%	5.657	1.610	-0.08	19.81	20.50	1.172	1.887	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) sensor on ECI 12												
Front side	100	QPSK 135_69	657200/3858	100%	3.770	1.190	0.04	19.80	20.50	1.175	1.398	22.2
Back side	100	QPSK 135_69	657200/3858	100%	1.260	0.470	-0.06	19.80	20.50	1.175	0.552	22.2
Right side	100	QPSK 135_69	657200/3858	100%	0.630	0.250	0.04	19.80	20.50	1.175	0.294	22.2
Top side	100	QPSK 135_69	657200/3858	100%	4.960	1.690	-0.17	19.80	20.50	1.175	1.986	22.2
Front side	100	QPSK 135_69	657200/3858	100%	3.420	0.987	0.09	19.59	20.50	1.233	1.217	22.2
Top side	100	QPSK 135_69	657200/3858	100%	4.310	1.470	0.10	19.59	20.50	1.233	1.813	22.2
Product specific 10g SAR Test data (Separate 0mm 100%RB) sensor on ECI 12												
Top side	100	QPSK 270_0	657200/3858	100%	4.680	1.540	-0.02	18.71	19.50	1.199	1.846	22.2
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor off ECI 4												
Front side 3mm	100	QPSK 1_137	657200/3858	100%	3.450	1.370	-0.13	26.23	27.00	1.194	1.636	22.2
Back side 5mm	100	QPSK 1_137	657200/3858	100%	3.910	1.500	0.05	26.23	27.00	1.194	1.791	22.2
Top side 8mm	100	QPSK 1_137	657200/3858	100%	1.910	0.750	0.19	26.23	27.00	1.194	0.896	22.2
Front side 3mm	100	QPSK 1_137	654800/3822	100%	3.160	1.190	0.03	26.22	27.00	1.197	1.424	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off ECI 4												
Front side 3mm	100	QPSK 135_69	657200/3858	100%	3.630	1.430	0.00	26.22	27.00	1.197	1.712	22.2
Back side 5mm	100	QPSK 135_69	657200/3858	100%	3.850	1.480	-0.19	26.22	27.00	1.197	1.772	22.2
Top side 8mm	100	QPSK 135_69	657200/3858	100%	2.100	0.820	-0.19	26.22	27.00	1.197	0.982	22.2
Front side 3mm	100	QPSK 135_69	654800/3822	100%	3.490	1.270	-0.05	26.19	27.00	1.205	1.530	22.2
Ant2 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) ECI 2												
Left cheek	100	QPSK 1_1	654800/3822	100%	0.083	0.040	0.16	24.07	25.00	1.239	0.103	22.3



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 140 of 157

Left tilted	100	QPSK 1_1	654800/3822	100%	0.066	0.018	0.00	24.07	25.00	1.239	0.082	22.3
Right cheek	100	QPSK 1_1	654800/3822	100%	0.233	0.109	-0.16	24.07	25.00	1.239	0.289	22.3
Right tilted	100	QPSK 1_1	654800/3822	100%	0.144	0.062	0.11	24.07	25.00	1.239	0.178	22.3
Head Test Data (50%RB) ECI 2												
Left cheek	100	QPSK 135_69	654800/3822	100%	0.087	0.040	-0.17	23.91	25.00	1.285	0.112	22.3
Left tilted	100	QPSK 135_69	654800/3822	100%	0.060	0.026	0.16	23.91	25.00	1.285	0.077	22.3
Right cheek	100	QPSK 135_69	654800/3822	100%	0.216	0.101	-0.01	23.91	25.00	1.285	0.278	22.3
Right tilted	100	QPSK 135_69	654800/3822	100%	0.133	0.057	0.18	23.91	25.00	1.285	0.171	22.3
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_1	654800/3822	100%	0.128	0.060	-0.08	22.54	23.50	1.247	0.160	22.3
Back side	100	QPSK 1_1	654800/3822	100%	0.541	0.203	0.04	22.54	23.50	1.247	0.675	22.3
Back side	100	QPSK 1_1	657200/3858	100%	0.487	0.187	0.01	22.35	23.50	1.303	0.635	22.3
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	654800/3822	100%	0.120	0.055	0.19	22.36	23.50	1.300	0.156	22.3
Back side	100	QPSK 135_69	654800/3822	100%	0.459	0.186	-0.18	22.36	23.50	1.300	0.597	22.3
Back side	100	QPSK 135_69	657200/3858	100%	0.417	0.168	-0.03	22.29	23.50	1.321	0.551	22.3
Body worn Test data (Separate 5mm 1RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 1_1	654800/3822	100%	0.048	0.026	-0.17	25.06	26.00	1.242	0.060	22.3
Back side 19mm	100	QPSK 1_1	654800/3822	100%	0.056	0.026	-0.03	25.06	26.00	1.242	0.070	22.3
Body worn Test data (Separate 5mm 50%RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 135_69	654800/3822	100%	0.040	0.020	0.17	24.85	26.00	1.303	0.052	22.3
Back side 19mm	100	QPSK 135_69	654800/3822	100%	0.057	0.026	-0.18	24.85	26.00	1.303	0.074	22.3
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_1	654800/3822	100%	0.119	0.055	-0.18	20.99	22.00	1.262	0.150	22.3
Back side	100	QPSK 1_1	654800/3822	100%	0.468	0.204	-0.12	20.99	22.00	1.262	0.591	22.3
Left side	100	QPSK 1_1	654800/3822	100%	0.362	0.150	0.04	20.99	22.00	1.262	0.457	22.3
Back side	100	QPSK 1_1	657200/3858	100%	0.385	0.149	0.11	20.88	22.00	1.294	0.498	22.3
Left side	100	QPSK 1_1	657200/3858	100%	0.242	0.087	0.15	20.88	22.00	1.294	0.313	22.3
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	654800/3822	100%	0.111	0.051	0.00	20.84	22.00	1.306	0.145	22.3
Back side	100	QPSK 135_69	654800/3822	100%	0.427	0.173	0.10	20.84	22.00	1.306	0.558	22.3
Left side	100	QPSK 135_69	654800/3822	100%	0.333	0.115	0.10	20.84	22.00	1.306	0.435	22.3
Back side	100	QPSK 135_69	654800/3822	100%	0.387	0.168	0.12	20.73	22.00	1.340	0.519	22.3
Left side	100	QPSK 135_69	654800/3822	100%	0.231	0.079	0.09	20.73	22.00	1.340	0.310	22.3
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 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm 1RB) ECI 4												
Back side	100	QPSK 1_1	654800/3822	100%	0.924	0.313	0.13	25.06	26.00	1.242	0.389	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) ECI 4												
Back side	100	QPSK 135_69	654800/3822	100%	0.867	0.296	0.18	24.85	26.00	1.303	0.386	22.1
Ant 8 Test Record SRS												
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) ECI 2												



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 141 of 157

Left cheek	100	QPSK 1_137	654800/3822	100%	0.087	0.041	-0.16	25.48	27.00	1.419	0.123	22.1
Left tilted	100	QPSK 1_137	654800/3822	100%	0.075	0.016	0.02	25.48	27.00	1.419	0.106	22.1
Right cheek	100	QPSK 1_137	654800/3822	100%	0.043	0.020	-0.06	25.48	27.00	1.419	0.061	22.1
Right tilted	100	QPSK 1_137	654800/3822	100%	0.032	0.011	0.02	25.48	27.00	1.419	0.045	22.1
Head Test Data(50%RB) ECI 2												
Left cheek	100	QPSK 135_69	654800/3822	100%	0.070	0.033	-0.07	25.52	27.00	1.406	0.098	22.1
Left tilted	100	QPSK 135_69	654800/3822	100%	0.057	0.012	0.01	25.52	27.00	1.406	0.080	22.1
Right cheek	100	QPSK 135_69	654800/3822	100%	0.037	0.017	-0.17	25.52	27.00	1.406	0.052	22.1
Right tilted	100	QPSK 135_69	654800/3822	100%	0.038	0.015	0.06	25.52	27.00	1.406	0.053	22.1
Body worn Test data (Separate 5mm 1RB) Sensor on ECI 3												
Front side	100	QPSK 1_137	654800/3822	100%	0.061	0.026	0.15	17.49	19.00	1.416	0.086	22.1
Back side	100	QPSK 1_137	654800/3822	100%	0.220	0.091	0.06	17.49	19.00	1.416	0.312	22.1
Body worn Test data (Separate 5mm 50%RB) Sensor on ECI 3												
Front side	100	QPSK 135_69	654800/3822	100%	0.058	0.023	0.01	17.51	19.00	1.409	0.082	22.1
Back side	100	QPSK 135_69	654800/3822	100%	0.213	0.110	0.11	17.51	19.00	1.409	0.300	22.1
Body worn Test data (Separate 5mm 1RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 1_137	654800/3822	100%	0.039	0.011	-0.11	25.48	27.00	1.419	0.055	22.1
Back side 19mm	100	QPSK 1_137	654800/3822	100%	0.062	0.030	-0.04	25.48	27.00	1.419	0.088	22.1
Body worn Test data (Separate 5mm 50%RB) Sensor off ECI 4												
Front side 14mm	100	QPSK 135_69	654800/3822	100%	0.040	0.013	-0.13	25.52	27.00	1.406	0.056	22.1
Back side 19mm	100	QPSK 135_69	654800/3822	100%	0.057	0.028	-0.08	25.52	27.00	1.406	0.080	22.1
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_137	654800/3822	100%	0.061	0.026	-0.13	16.02	17.50	1.406	0.086	22.1
Back side	100	QPSK 1_137	654800/3822	100%	0.127	0.051	0.07	16.02	17.50	1.406	0.179	22.1
Right side	100	QPSK 1_137	654800/3822	100%	0.034	0.013	0.07	16.02	17.50	1.406	0.048	22.1
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	654800/3822	100%	0.058	0.023	0.03	16.03	17.50	1.403	0.081	22.1
Back side	100	QPSK 135_69	654800/3822	100%	0.105	0.044	0.17	16.03	17.50	1.403	0.147	22.1
Right side	100	QPSK 135_69	654800/3822	100%	0.030	0.012	-0.12	16.03	17.50	1.403	0.042	22.1
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 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm 1RB) ECI 4												
Back side	100	QPSK 1_137	654800/3822	100%	0.947	0.392	0.06	25.48	27.00	1.419	0.556	22.1
Product specific 10g SAR Test data (Separate 0mm 50%RB) ECI 4												
Back side	100	QPSK 135_69	654800/3822	100%	0.945	0.391	-0.19	25.52	27.00	1.406	0.550	22.1
Ant 1 Test Record SRS												
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) ECI 2												
Left cheek	100	QPSK 1_271	654800/3822	100%	0.120	0.052	0.13	24.05	25.00	1.245	0.149	22
Left tilted	100	QPSK 1_271	654800/3822	100%	0.051	0.014	0.18	24.05	25.00	1.245	0.063	22
Right cheek	100	QPSK 1_271	654800/3822	100%	0.061	0.029	0.19	24.05	25.00	1.245	0.076	22
Right tilted	100	QPSK 1_271	654800/3822	100%	0.094	0.040	0.03	24.05	25.00	1.245	0.117	22



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 142 of 157

Head Test Data(50%RB) ECI 2												
Left cheek	100	QPSK 135_69	657200/3858	100%	0.122	0.052	0.10	23.92	25.00	1.282	0.156	22
Left tilted	100	QPSK 135_69	657200/3858	100%	0.047	0.021	0.02	23.92	25.00	1.282	0.060	22
Right cheek	100	QPSK 135_69	657200/3858	100%	0.065	0.030	0.09	23.92	25.00	1.282	0.083	22
Right tilted	100	QPSK 135_69	657200/3858	100%	0.098	0.040	-0.17	23.92	25.00	1.282	0.126	22
Body worn Test data (Separate 5mm 1RB) ECI 4												
Front side	100	QPSK 1_271	654800/3822	100%	0.295	0.123	0.11	24.05	25.00	1.245	0.367	22
Back side	100	QPSK 1_271	654800/3822	100%	0.574	0.241	-0.07	24.05	25.00	1.245	0.715	22
Back side	100	QPSK 1_271	657200/3858	100%	0.481	0.216	0.02	24.03	25.00	1.250	0.601	22
Body worn Test data (Separate 5mm 50%RB) ECI 4												
Front side	100	QPSK 135_69	657200/3858	100%	0.290	0.127	-0.02	23.92	25.00	1.282	0.372	22
Back side	100	QPSK 135_69	657200/3858	100%	0.527	0.229	-0.16	23.92	25.00	1.282	0.676	22
Back side	100	QPSK 135_69	654800/3822	100%	0.473	0.203	-0.04	23.72	25.00	1.343	0.635	22
Hotspot Test data (Separate 5mm 1RB) ECI 7												
Front side	100	QPSK 1_271	654800/3822	100%	0.310	0.130	0.16	23.08	24.00	1.236	0.383	22
Back side	100	QPSK 1_271	654800/3822	100%	0.596	0.240	0.06	23.08	24.00	1.236	0.737	22
Left side	100	QPSK 1_271	654800/3822	100%	0.286	0.119	-0.18	23.08	24.00	1.236	0.353	22
Bottom side	100	QPSK 1_271	654800/3822	100%	0.602	0.255	0.02	23.08	24.00	1.236	0.744	22
Back side	100	QPSK 1_271	654800/3822	100%	0.516	0.142	0.19	23.03	24.00	1.250	0.645	22
Bottom side	100	QPSK 1_271	654800/3822	100%	0.532	0.168	-0.16	23.03	24.00	1.250	0.665	22
Hotspot Test data (Separate 5mm 50%RB) ECI 7												
Front side	100	QPSK 135_69	657200/3858	100%	0.306	0.134	-0.04	22.95	24.00	1.274	0.390	22
Back side	100	QPSK 135_69	657200/3858	100%	0.555	0.241	-0.05	22.95	24.00	1.274	0.707	22
Left side	100	QPSK 135_69	657200/3858	100%	0.301	0.122	-0.19	22.95	24.00	1.274	0.383	22
Bottom side	100	QPSK 135_69	657200/3858	100%	0.714	0.260	-0.02	22.95	24.00	1.274	0.910	22
Back side	100	QPSK 135_69	654800/3822	100%	0.470	0.222	0.10	22.69	24.00	1.352	0.635	22
Bottom side	100	QPSK 135_69	654800/3822	100%	0.664	0.245	-0.04	22.69	24.00	1.352	0.898	22



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 143 of 157

8.3.16 SAR Result of WiFi 2.4G

Ant6 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	1/2412	99.64%	1.004	0.552	0.301	0.13	17.42	19.00	1.439	0.798	22.2
Left tilted	802.11b	1/2412	99.64%	1.004	0.570	0.267	0.01	17.42	19.00	1.439	0.824	22.2
Right cheek	802.11b	1/2412	99.64%	1.004	0.325	0.185	-0.05	17.42	19.00	1.439	0.470	22.2
Right tilted	802.11b	1/2412	99.64%	1.004	0.437	0.218	0.08	17.42	19.00	1.439	0.631	22.2
Left tilted	802.11b	6/2437	99.64%	1.004	0.432	0.218	0.05	17.04	19.00	1.570	0.681	22.2
Left tilted	802.11b	11/2462	99.64%	1.004	0.405	0.208	0.19	17.22	19.00	1.507	0.613	22.2
Head Evaluate Data with Simultaneous transmission												
Left cheek	802.11b	1/2412	99.64%	1.004	0.552	0.301	0.13	17.42	15.00	0.573	0.318	22.2
Left tilted	802.11b	1/2412	99.64%	1.004	0.570	0.267	0.01	17.42	15.00	0.573	0.328	22.2
Right cheek	802.11b	1/2412	99.64%	1.004	0.325	0.185	-0.05	17.42	15.00	0.573	0.187	22.2
Right tilted	802.11b	1/2412	99.64%	1.004	0.437	0.218	0.08	17.42	15.00	0.573	0.251	22.2
Left tilted	802.11b	6/2437	99.64%	1.004	0.432	0.218	0.05	17.04	15.00	0.625	0.271	22.2
Left tilted	802.11b	11/2462	99.64%	1.004	0.405	0.208	0.19	17.22	15.00	0.600	0.244	22.2
Body worn Test data (Separate 5mm) Data												
Front side	802.11b	1/2412	99.64%	1.004	0.279	0.147	-0.11	17.42	19.00	1.439	0.403	22.2
Back side	802.11b	1/2412	99.64%	1.004	0.782	0.358	-0.01	17.42	19.00	1.439	1.130	22.2
Back side	802.11b	6/2437	99.64%	1.004	0.684	0.325	0.10	17.04	19.00	1.570	1.078	22.2
Back side	802.11b	11/2462	99.64%	1.004	0.664	0.319	-0.03	17.22	19.00	1.507	1.005	22.2
Body worn Evaluate Data with Simultaneous transmission (Separate 5mm)												
Front side	802.11b	1/2412	99.64%	1.004	0.279	0.147	-0.11	17.42	14.00	0.455	0.127	22.2
Back side	802.11b	1/2412	99.64%	1.004	0.782	0.358	-0.01	17.42	14.00	0.455	0.357	22.2
Back side	802.11b	6/2437	99.64%	1.004	0.684	0.325	0.10	17.04	14.00	0.497	0.341	22.2
Back side	802.11b	11/2462	99.64%	1.004	0.664	0.319	-0.03	17.22	14.00	0.476	0.317	22.2
Hotspot Test data (Separate 5mm)												
Front side	802.11b	1/2412	99.64%	1.004	0.118	0.062	-0.07	14.41	16.00	1.442	0.171	22.2
Back side	802.11b	1/2412	99.64%	1.004	0.332	0.152	-0.04	14.41	16.00	1.442	0.481	22.2
Right side	802.11b	1/2412	99.64%	1.004	0.092	0.044	-0.02	14.41	16.00	1.442	0.133	22.2
Top side	802.11b	1/2412	99.64%	1.004	0.217	0.103	-0.14	14.41	16.00	1.442	0.314	22.2



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8.3.17 SAR Result of WiFi 5G

Ant6 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	802.11a	60/5300	97.48%	1.026	0.560	0.160	-0.15	14.24	16.00	1.500	0.862	22.2
Left tilted	802.11a	60/5300	97.48%	1.026	0.731	0.186	0.08	14.24	16.00	1.500	1.125	22.2
Right cheek	802.11a	60/5300	97.48%	1.026	0.186	0.087	0.19	14.24	16.00	1.500	0.286	22.2
Right tilted	802.11a	60/5300	97.48%	1.026	0.332	0.108	-0.01	14.24	16.00	1.500	0.511	22.2
Left cheek	802.11a	52/5260	97.48%	1.026	0.524	0.147	0.00	14.23	16.00	1.503	0.808	22.2
Left tilted	802.11a	52/5260	97.48%	1.026	0.685	0.169	0.14	14.23	16.00	1.503	1.056	22.2
Left tilted with Sample2	802.11a	60/5300	97.48%	1.026	0.666	0.157	0.11	14.24	16.00	1.500	1.025	22.2
Left tilted with Sample3	802.11a	60/5300	97.48%	1.026	0.639	0.149	-0.06	14.24	16.00	1.500	0.983	22.2
Head Test Data of U-NII-2C												
Left cheek	802.11a	144/5720	97.48%	1.026	0.498	0.160	-0.11	17.80	19.00	1.318	0.673	22.2
Left tilted	802.11a	144/5720	97.48%	1.026	0.585	0.180	-0.08	17.80	19.00	1.318	0.791	22.2
Right cheek	802.11a	144/5720	97.48%	1.026	0.203	0.086	0.15	17.80	19.00	1.318	0.275	22.2
Right tilted	802.11a	144/5720	97.48%	1.026	0.437	0.147	0.18	17.80	19.00	1.318	0.591	22.2
Head Test Data of U-NII-3												
Left cheek	802.11a	157/5785	97.48%	1.026	0.590	0.190	-0.19	18.05	19.50	1.396	0.845	22.2
Left tilted	802.11a	157/5785	97.48%	1.026	0.689	0.214	-0.05	18.05	19.50	1.396	0.987	22.2
Right cheek	802.11a	157/5785	97.48%	1.026	0.255	0.112	-0.18	18.05	19.50	1.396	0.365	22.2
Right tilted	802.11a	157/5785	97.48%	1.026	0.500	0.168	0.19	18.05	19.50	1.396	0.716	22.2
Left cheek	802.11a	149/5745	97.48%	1.026	0.489	0.156	0.06	18.03	19.50	1.403	0.704	22.2
Left tilted	802.11a	149/5745	97.48%	1.026	0.632	0.171	-0.07	18.03	19.50	1.403	0.910	22.2
Head Evaluate Data with Simultaneous transmission of U-NII-2A												
Left cheek	802.11a	60/5300	97.48%	1.026	0.560	0.160	-0.15	14.24	11.00	0.474	0.272	22.2
Left tilted	802.11a	60/5300	97.48%	1.026	0.731	0.186	0.08	14.24	11.00	0.474	0.356	22.2
Right cheek	802.11a	60/5300	97.48%	1.026	0.186	0.087	0.19	14.24	11.00	0.474	0.090	22.2
Right tilted	802.11a	60/5300	97.48%	1.026	0.332	0.108	-0.01	14.24	11.00	0.474	0.161	22.2
Left cheek	802.11a	52/5260	97.48%	1.026	0.524	0.147	0.00	14.23	11.00	0.475	0.255	22.2
Left tilted	802.11a	52/5260	97.48%	1.026	0.685	0.169	0.14	14.23	11.00	0.475	0.334	22.2
Head Evaluate Data with Simultaneous transmission of U-NII-2C												
Left cheek	802.11a	144/5720	97.48%	1.026	0.498	0.160	-0.11	17.80	14.00	0.417	0.213	22.2
Left tilted	802.11a	144/5720	97.48%	1.026	0.585	0.180	-0.08	17.80	14.00	0.417	0.250	22.2
Right cheek	802.11a	144/5720	97.48%	1.026	0.255	0.112	0.15	17.80	14.00	0.417	0.109	22.2
Right tilted	802.11a	144/5720	97.48%	1.026	0.437	0.147	0.18	17.80	14.00	0.417	0.187	22.2
Head Evaluate Data with Simultaneous transmission of U-NII-3												
Left cheek	802.11a	157/5785	97.48%	1.026	0.590	0.190	-0.19	18.05	14.50	0.442	0.268	22.2
Left tilted	802.11a	157/5785	97.48%	1.026	0.689	0.214	-0.05	18.05	14.50	0.442	0.312	22.2
Right cheek	802.11a	157/5785	97.48%	1.026	0.255	0.112	-0.18	18.05	14.50	0.442	0.116	22.2
Right tilted	802.11a	157/5785	97.48%	1.026	0.500	0.168	0.19	18.05	14.50	0.442	0.227	22.2
Left cheek	802.11a	149/5745	97.48%	1.026	0.489	0.156	0.06	18.03	14.50	0.444	0.223	22.2



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 145 of 157

Left tilted	802.11a	149/5745	97.48%	1.026	0.632	0.171	-0.07	18.03	14.50	0.444	0.288	22.2
Body worn Test data of U-NII-2A (Separate 5mm) Sensor on												
Front side	802.11a	60/5300	97.48%	1.026	0.210	0.073	-0.04	13.29	15.00	1.483	0.320	22.3
Back side	802.11a	60/5300	97.48%	1.026	0.742	0.201	0.00	13.29	15.00	1.483	1.129	22.3
Back side	802.11a	52/5260	97.48%	1.026	0.689	0.178	0.02	13.18	15.00	1.521	1.075	22.3
Back side with Sample2	802.11a	60/5300	97.48%	1.026	0.713	0.172	-0.16	13.29	15.00	1.483	1.085	22.3
Back side with Sample3	802.11a	60/5300	97.48%	1.026	0.684	0.154	-0.13	13.29	15.00	1.483	1.041	22.3
Body worn Test data of U-NII-2C (Separate 5mm) Sensor on												
Front side	802.11a	144/5720	97.48%	1.026	0.222	0.075	0.01	17.80	19.00	1.318	0.300	22.3
Back side	802.11a	144/5720	97.48%	1.026	0.621	0.220	0.13	17.80	19.00	1.318	0.840	22.3
Back side	802.11a	116/5580	97.48%	1.026	0.536	0.174	0.00	17.50	19.00	1.413	0.777	22.3
Body worn Test data of U-NII-3 (Separate 5mm) Sensor on												
Front side	802.11a	157/5785	97.48%	1.026	0.289	0.101	-0.13	18.05	19.50	1.396	0.414	22.3
Back side	802.11a	157/5785	97.48%	1.026	0.636	0.241	0.10	18.05	19.50	1.396	0.911	22.3
Back side	802.11a	149/5745	97.48%	1.026	0.611	0.222	-0.14	18.03	19.50	1.403	0.880	22.3
Body worn Test data of U-NII-2A (Separate 5mm) Sensor off												
Front side 14mm	802.11a	60/5300	97.48%	1.026	0.067	0.070	0.15	17.70	19.50	1.514	0.104	22.3
Back side 19mm	802.11a	60/5300	97.48%	1.026	0.220	0.137	0.07	17.70	19.50	1.514	0.342	22.3
Body worn Test data of U-NII-2C (Separate 5mm) Sensor off												
Front side 14mm	802.11a	144/5720	97.48%	1.026	0.072	0.025	-0.06	17.80	19.00	1.318	0.097	22.3
Back side 19mm	802.11a	144/5720	97.48%	1.026	0.189	0.116	0.18	17.80	19.00	1.318	0.256	22.3
Body worn Test data of U-NII-3 (Separate 5mm) Sensor off												
Front side 14mm	802.11a	157/5785	97.48%	1.026	0.089	0.037	0.15	18.05	19.50	1.396	0.127	22.3
Back side 19mm	802.11a	157/5785	97.48%	1.026	0.168	0.120	-0.09	18.05	19.50	1.396	0.241	22.3
Body worn Evaluate Data with Simultaneous transmission of U-NII-2A (Separate 5mm) Sensor on												
Front side	802.11a	60/5300	97.48%	1.026	0.210	0.073	-0.04	13.29	10.00	0.469	0.101	22.3
Back side	802.11a	60/5300	97.48%	1.026	0.742	0.201	0.00	13.29	10.00	0.469	0.357	22.3
Back side	802.11a	52/5260	97.48%	1.026	0.689	0.178	0.02	13.18	10.00	0.481	0.340	22.3
Body worn Evaluate Data with Simultaneous transmission of U-NII-2C (Separate 5mm) Sensor on												
Front side	802.11a	144/5720	97.48%	1.026	0.222	0.075	0.01	17.80	14.00	0.417	0.095	22.3
Back side	802.11a	144/5720	97.48%	1.026	0.621	0.220	0.13	17.80	14.00	0.417	0.266	22.3
Back side	802.11a	116/5580	97.48%	1.026	0.536	0.174	0.00	17.50	14.00	0.447	0.246	22.3
Body worn Evaluate Data with Simultaneous transmission of U-NII-3 (Separate 5mm) Sensor on												
Front side	802.11a	157/5785	97.48%	1.026	0.289	0.101	-0.13	18.05	14.50	0.442	0.131	22.3
Back side	802.11a	157/5785	97.48%	1.026	0.636	0.241	0.10	18.05	14.50	0.442	0.288	22.3
Back side	802.11a	149/5745	97.48%	1.026	0.611	0.222	-0.14	18.03	14.50	0.444	0.278	22.3
Hotspot Test data of U-NII-1 (Separate 5mm)												
Front side	802.11ac VHT20	40/5200	97.40%	1.027	0.086	0.029	0.13	10.50	12.00	1.413	0.125	22.3
Back side	802.11ac VHT20	40/5200	97.40%	1.027	0.317	0.091	0.09	10.50	12.00	1.413	0.460	22.3
Right side	802.11ac VHT20	40/5200	97.40%	1.027	0.042	0.017	0.01	10.50	12.00	1.413	0.061	22.3
Top side	802.11ac VHT20	40/5200	97.40%	1.027	0.359	0.095	0.05	10.50	12.00	1.413	0.521	22.3
Top side with Sample2	802.11ac VHT20	40/5200	97.40%	1.027	0.299	0.076	-0.13	10.50	12.00	1.413	0.434	22.3
Top side with Sample3	802.11ac VHT20	40/5200	97.40%	1.027	0.307	0.086	0.03	10.50	12.00	1.413	0.446	22.3
Hotspot Test data of U-NII-3 (Separate 5mm)												



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 146 of 157

Front side	802.11a	157/5785	97.48%	1.026	0.088	0.031	-0.01	13.62	15.00	1.374	0.124	22.3
Back side	802.11a	157/5785	97.48%	1.026	0.205	0.074	-0.07	13.62	15.00	1.374	0.289	22.3
Right side	802.11a	157/5785	97.48%	1.026	0.158	0.045	-0.14	13.62	15.00	1.374	0.223	22.3
Top side	802.11a	157/5785	97.48%	1.026	0.356	0.103	-0.04	13.62	15.00	1.374	0.502	22.3
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) Sensor off												
Front side	802.11a	60/5300	97.48%	1.026	2.330	0.608	-0.15	17.70	19.50	1.514	0.944	22.1
Back side	802.11a	60/5300	97.48%	1.026	4.510	1.200	-0.10	17.70	19.50	1.514	1.864	22.1
Right side	802.11a	60/5300	97.48%	1.026	0.664	0.226	-0.15	17.70	19.50	1.514	0.351	22.1
Top side	802.11a	60/5300	97.48%	1.026	6.820	1.470	-0.07	17.70	19.50	1.514	2.283	22.1
Top side	802.11a	52/5260	97.48%	1.026	5.890	1.330	0.14	17.70	19.50	1.514	2.066	22.1
Top side with Sample2	802.11a	60/5300	97.48%	1.026	6.468	1.329	0.06	17.70	19.50	1.514	2.064	22.1
Top side with Sample3	802.11a	60/5300	97.48%	1.026	6.331	1.231	-0.15	17.70	19.50	1.514	1.912	22.1
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm) Sensor off												
Front side	802.11a	144/5720	97.48%	1.026	1.080	0.284	-0.16	17.80	19.00	1.318	0.384	22.1
Back side	802.11a	144/5720	97.48%	1.026	1.920	0.603	-0.06	17.80	19.00	1.318	0.815	22.1
Right side	802.11a	144/5720	97.48%	1.026	1.050	0.268	-0.05	17.80	19.00	1.318	0.362	22.1
Top side	802.11a	144/5720	97.48%	1.026	3.450	0.749	0.08	17.80	19.00	1.318	1.013	22.1
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 Evaluate Data with Simultaneous transmission of U-NII-2A (Separate 0mm) Sensor off												
Front side	802.11a	60/5300	97.48%	1.026	2.330	0.608	-0.15	17.70	14.50	0.479	0.299	22.1
Back side	802.11a	60/5300	97.48%	1.026	4.510	1.200	-0.10	17.70	14.50	0.479	0.590	22.1
Right side	802.11a	60/5300	97.48%	1.026	0.664	0.226	-0.15	17.70	14.50	0.479	0.111	22.1
Top side	802.11a	60/5300	97.48%	1.026	6.820	1.470	-0.07	17.70	14.50	0.479	0.722	22.1
Top side	802.11a	52/5260	97.48%	1.026	5.890	1.330	0.14	17.70	14.50	0.479	0.654	22.1
Product specific 10gSAR Evaluate Data with Simultaneous transmission of U-NII-2C (Separate 0mm) Sensor off												
Front side	802.11a	144/5720	97.48%	1.026	1.080	0.284	-0.16	17.80	14.00	0.417	0.122	22.1
Back side	802.11a	144/5720	97.48%	1.026	1.920	0.603	-0.06	17.80	14.00	0.417	0.258	22.1
Right side	802.11a	144/5720	97.48%	1.026	1.050	0.268	-0.05	17.80	14.00	0.417	0.115	22.1
Top side	802.11a	144/5720	97.48%	1.026	3.450	0.749	0.08	17.80	14.00	0.417	0.320	22.1



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 147 of 157

8.3.18 SAR Result of BT

Ant6 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	78/2480	77.21%	1.295	0.086	0.043	0.05	11.41	13.00	1.442	0.161	22.1
Left tilted	DH5	78/2480	77.21%	1.295	0.091	0.038	0.02	11.41	13.00	1.442	0.170	22.1
Right cheek	DH5	78/2480	77.21%	1.295	0.044	0.023	-0.17	11.41	13.00	1.442	0.082	22.1
Right tilted	DH5	78/2480	77.21%	1.295	0.054	0.027	-0.17	11.41	13.00	1.442	0.101	22.1
Body worn Test data (Separate 5mm)												
Front side	DH5	78/2480	77.21%	1.295	0.046	0.021	-0.11	11.41	13.00	1.442	0.086	22.1
Back side	DH5	78/2480	77.21%	1.295	0.110	0.049	0.03	11.41	13.00	1.442	0.205	22.1
Hotspot Test data (Separate 5mm)												
Front side	DH5	78/2480	77.21%	1.295	0.046	0.021	0.03	11.41	13.00	1.442	0.086	22.1
Back side	DH5	78/2480	77.21%	1.295	0.110	0.049	0.03	11.41	13.00	1.442	0.205	22.1
Right side	DH5	78/2480	77.21%	1.295	0.022	0.008	0.05	11.41	13.00	1.442	0.041	22.1
Top side	DH5	78/2480	77.21%	1.295	0.069	0.027	-0.12	11.41	13.00	1.442	0.129	22.1



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR test evaluation

No.	Simultaneous Tx Combination	Head	Body worn	Hotspot	Product specific 10gSAR
1	WIFI 5G + Bluetooth	Yes	Yes	Yes	Yes
2	WWAN + WIFI 2.4G	Yes	Yes	Yes	Yes
3	WWAN + WIFI 5G	Yes	Yes	Yes	Yes
4	WWAN + Bluetooth	Yes	Yes	Yes	Yes
5	WWAN + WIFI 5G + Bluetooth	Yes	Yes	Yes	Yes
6	WIFI 5G + Bluetooth + NFC	/	/	/	Yes
7	WWAN + WIFI 2.4G + NFC	/	/	/	Yes
8	WWAN + WIFI 5G + NFC	/	/	/	Yes
9	WWAN + Bluetooth + NFC	/	/	/	Yes
10	WWAN + WIFI 5G + Bluetooth + NFC	/	/	/	Yes

8.4.2 Sub6 antenna groups

All radio frequency technologies are divided into two antenna groups: AG0 and AG1. With AG0 having 2 antennas (0, 1) and AG1 having 4 antennas (2, 4, 5, 8).

1. Sum of SAR: Demonstrate that the sum of $max.norm.exp.AGi$ ($i = 1, 2, \dots, m$ for m antenna groups) and the reported normalized SAR values from radios outside antenna groups should be less than the regulatory limit for each supported scene.
2. If the Sum of SAR is NOT met, then for a given antenna grouping scheme plus external radios/antennas (ERs) (referred to as 'configuration'), demonstrate all AG pairs, all ER pairs and all (AG, ER) pairs in the configuration meet SPLSR SAR for each exposure position under each supported scene.



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8.4.2.1 Head SAR Antenna Group Analysis

AG0 Head Highest Reported 1g SAR			
Test Position	Ant0	Ant1	MAX
Left cheek	0.406	0.427	0.427
Left tilted	0.204	0.128	0.204
Right cheek	0.625	0.339	0.625
Right tilted	0.220	0.228	0.228

AG1 Head Highest Reported 1g SAR					
Test Position	Ant2	Ant4	Ant5	Ant8	MAX
Left cheek	0.175	0.337	0.729	0.636	0.729
Left tilted	0.085	0.570	0.861	0.350	0.861
Right cheek	0.112	0.770	0.462	0.254	0.770
Right tilted	0.150	0.884	0.483	0.166	0.884

Wlan&BT Head Highest Reported 1g SAR					
Test Position	WiFi 2.4G Ant6	WiFi 5G Ant6	BT	Summed SAR	
	1	2	3	2+3	MAX
Left cheek	0.318	0.272	0.161	0.433	0.433
Left tilted	0.328	0.356	0.170	0.526	0.526
Right cheek	0.187	0.116	0.082	0.198	0.198
Right tilted	0.251	0.227	0.101	0.328	0.328

AG0+AG1+Wlan&BT MAX Head Highest Reported 1g SAR				
Test Position	AG0	AG1	Wlan&BT MAX	AG0+AG1+Wlan&BT MAX Summed
Left cheek	0.427	0.729	0.433	1.589
Left tilted	0.204	0.861	0.526	1.591
Right cheek	0.625	0.770	0.198	1.593
Right tilted	0.228	0.884	0.328	1.440

Note: According to KDB 447498 D04, when the sum of SAR is larger than SAR limit or client defined limit, SAR test exclusion is determined by the SAR to peak location separation ratio(SPLSR).When the SAR to peak location ratio for each pair of antennas is $\leq 1\text{-g } 0.04$ and $10\text{-g } 0.10$, simultaneous SAR evaluation is not required. More detail SPLSR please refers the next SPLSR Evaluation Analysis section.

8.4.2.2 Body-worn SAR Antenna Group Analysis

AG0 Body Worn Highest Reported 1g SAR			
Test Position	Ant0	Ant1	MAX
Front side	0.638	0.669	0.669
Back side	1.258	1.197	1.258

AG1 Head Highest Reported 1g SAR					
Test Position	Ant2	Ant4	Ant5	Ant8	MAX
Front side	0.232	0.248	0.669	0.129	0.669
Back side	0.828	0.818	0.783	0.852	0.852

Wlan&BT Body Worn Highest Reported 1g SAR					
Test Position	WiFi 2.4G Ant6	WiFi 5G Ant6	BT	Summed SAR	
	1	2	3	2+3	MAX
Front side	0.127	0.131	0.086	0.217	0.217
Back side	0.357	0.357	0.205	0.562	0.562

AG0+AG1+Wlan&BT MAX Body Worn Highest Reported 1g SAR				
Test Position	AG0	AG1	Wlan&BT MAX	AG0+AG1+Wlan&BT MAX Summed
Front side	0.669	0.669	0.217	1.555
Back side	1.258	0.852	0.562	2.672

AG0+AG1+Wlan&BT MAX Back Summed Reported 1g SAR											
Ant combination	AG0				AG1+ER				AG0+AG1+Wlan&BT MAX Summed	SPLSR	SPLSR Case No.
	SAR	peak location x Axis	peak location y Axis	peak location z Axis	SAR	peak location x Axis	peak location y Axis	peak location z Axis			
Ant0+Ant2+ER	1.258	-2.00	-81.00	1.80	1.390	43.00	43.00	-3.14	2.648	0.03	1#
Ant0+Ant4+ER	1.258	-2.00	-81.00	1.80	1.380	24.80	64.60	-2.96	2.638	0.03	2#
Ant0+Ant5+ER	1.258	-2.00	-81.00	1.80	1.345	-16.00	45.00	-3.22	2.603	0.03	3#
Ant0+Ant8+ER	1.258	-2.00	-81.00	1.80	1.414	-27.00	49.00	-3.58	2.672	0.03	4#
Ant1+Ant2+ER	1.197	33.10	-76.00	-3.08	1.390	43.00	43.00	-3.14	2.587	0.03	5#
Ant1+Ant4+ER	1.197	33.10	-76.00	-3.08	1.380	24.80	64.60	-2.96	2.577	0.03	6#
Ant1+Ant5+ER	1.197	33.10	-76.00	-3.08	1.345	-16.00	45.00	-3.22	2.542	0.03	7#
Ant1+Ant8+ER	1.197	33.10	-76.00	-3.08	1.414	-27.00	49.00	-3.58	2.611	0.03	8#

Note: According to KDB 447498 D04, when the sum of SAR is larger than SAR limit or client defined limit, SAR test exclusion is determined by the SAR to peak location separation ratio(SPLSR).When the SAR to peak location ratio for each pair of antennas is $\leq 1\text{-g } 0.04$ and $10\text{-g } 0.10$, simultaneous SAR evaluation is not required. More detail SPLSR please refers the next SPLSR Evaluation Analysis section.



8.4.2.3 Hotspot SAR Antenna Group Analysis

AG0 Hotspot Highest Reported 1g SAR			
Test Position	Ant0	Ant1	MAX
Front side	0.638	0.737	0.737
Back side	1.258	1.197	1.258
Left side	0.000	0.910	0.910
Right side	0.610	0.000	0.610
Top side	0.000	0.000	0.000
Bottom side	1.071	0.934	1.071

AG1 Head Highest Reported 1g SAR					
Test Position	Ant2	Ant4	Ant5	Ant8	MAX
Front side	0.163	0.171	0.225	0.086	0.225
Back side	0.591	0.564	0.592	0.617	0.617
Left side	0.463	0.211	0.000	0.000	0.463
Right side	0.000	0.000	0.087	0.239	0.239
Top side	0.000	0.469	0.343	0.000	0.469
Bottom side	0.000	0.000	0.000	0.000	0.000

Wlan&BT Hotspot Highest Reported 1g SAR					
Test Position	WiFi 2.4G Ant6	WiFi 5G Ant6	BT	Summed SAR	
	1	2	3	2+3	MAX
Front side	0.171	0.125	0.086	0.211	0.211
Back side	0.481	0.460	0.205	0.665	0.665
Left side	0.000	0.000	0.000	0.000	0.000
Right side	0.133	0.223	0.041	0.264	0.264
Top side	0.314	0.521	0.129	0.650	0.650
Bottom side	0.000	0.000	0.000	0.000	0.000

AG0+AG1+Wlan&BT MAX Hotspot Highest Reported 1g SAR				
Test Position	AG0	AG1	Wlan&BT MAX	AG0+AG1+Wlan&BT MAX Summed
Front side	0.737	0.225	0.211	1.173
Back side	1.258	0.592	0.665	2.515
Left side	0.910	0.000	0.000	0.910
Right side	0.610	0.087	0.264	0.961
Top side	0.000	0.343	0.650	0.993
Bottom side	1.071	0.000	0.000	1.071



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 152 of 157

AG0+AG1+Wlan&BT MAX Back Side Summed Reported SAR											
Ant combination	AG0				AG1+ER				AG0+AG1+Wlan&BT MAX Summed	SPLSR	SPLSR Case No.
	SAR	peak location x Axis	peak location y Axis	peak location z Axis	SAR	peak location x Axis	peak location y Axis	peak location z Axis	SAR		
Ant0+Ant2+ER	1.258	-7.50	-77.90	-3.04	1.256	46.10	41.30	-3.26	2.514	0.03	9#
Ant0+Ant4+ER	1.258	-7.50	-77.90	-3.04	1.229	30.80	60.60	-2.94	2.487	0.03	10#
Ant0+Ant5+ER	1.258	-7.50	-77.90	-3.04	1.257	2.00	77.00	-3.14	2.515	0.03	11#
Ant0+Ant8+ER	1.258	-7.50	-77.90	-3.04	1.282	-27.00	40.00	-3.64	2.540	0.03	12#
Ant1+Ant2+ER	1.197	29.40	-72.30	-3.08	1.256	46.10	41.30	-3.26	2.453	0.03	13#
Ant1+Ant4+ER	1.197	29.40	-72.30	-3.08	1.229	30.80	60.60	-2.94	2.426	0.03	14#
Ant1+Ant5+ER	1.197	29.40	-72.30	-3.08	1.257	2.00	77.00	-3.14	2.454	0.03	15#
Ant1+Ant8+ER	1.197	29.40	-72.30	-3.08	1.282	-27.00	40.00	-3.64	2.479	0.03	16#

Note: According to KDB 447498 D04, when the sum of SAR is larger than SAR limit or client defined limit, SAR test exclusion is determined by the SAR to peak location separation ratio(SPLSR).When the SAR to peak location ratio for each pair of antennas is $\leq 1\text{-g } 0.04$ and $10\text{-g } 0.10$, simultaneous SAR evaluation is not required. More detail SPLSR please refers the next SPLSR Evaluation Analysis section.



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8.4.2.4 Extremity SAR Antenna Group Analysis

AG0 Extremity Highest Reported 10g SAR			
Test Position	Ant0	Ant1	MAX
Front side	1.776	1.160	1.776
Back side	3.167	2.911	3.167
Left side	0.000	0.000	0.000
Right side	0.000	0.000	0.000
Top side	0.000	0.000	0.000
Bottom side	3.072	1.655	3.072

AG1 Extremity Highest Reported 10g SAR					
Test Position	Ant2	Ant4	Ant5	Ant8	MAX
Front side	0.000	0.000	1.712	0.000	1.712
Back side	0.800	1.292	1.791	1.425	1.791
Left side	0.000	1.515	0.000	0.000	1.515
Right side	0.000	0.000	0.316	1.542	1.542
Top side	0.000	2.058	2.110	0.000	2.110
Bottom side	0.000	0.000	0.000	0.000	0.000

Wlan&BT Extremity Highest Reported 10g SAR						
Test Position	WiFi 2.4G Ant6	WiFi 5G Ant6	BT	NFC	Summed SAR	
	1	2	3	4	2+3+4	MAX
Front side	0.000	0.299	0.000	0.000	0.299	0.299
Back side	0.000	0.590	0.000	0.018	0.608	0.608
Left side	0.000	0.000	0.000	0.000	0.000	0.000
Right side	0.000	0.115	0.000	0.000	0.115	0.115
Top side	0.000	0.722	0.000	0.000	0.722	0.722
Bottom side	0.000	0.000	0.000	0.000	0.000	0.000

AG0+AG1+Wlan&BT MAX Extremity Highest Reported 10g SAR				
Test Position	AG0	AG1	Wlan&BT MAX	AG0+AG1+Wlan&BT MAX Summed
Front side	1.776	1.712	0.299	3.787
Back side	3.167	1.791	0.608	5.566
Left side	0.000	0.000	0.000	0.000
Right side	0.000	0.316	0.115	0.431
Top side	0.000	2.110	0.722	2.832
Bottom side	3.072	0.000	0.000	3.072



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 154 of 157

AG0+AG1+Wlan&BT MAX Back Side Summed Reported SAR											
Ant combination	AG0				AG1+ER				AG0+AG1+Wlan&BT MAX Summed	SPLSR	SPLSR Case No.
	SAR	peak location x Axis	peak location y Axis	peak location z Axis	SAR	peak location x Axis	peak location y Axis	peak location z Axis	SAR		
Ant0+Ant2+ER	3.167	14.00	-78.00	-2.72	1.408	44.20	39.90	-0.26	4.575	0.08	17#
Ant0+Ant4+ER	3.167	14.00	-78.00	-2.72	1.900	30.10	75.00	-3.33	5.067	0.07	18#
Ant0+Ant5+ER	3.167	14.00	-78.00	-2.72	2.399	-20.00	65.00	-3.10	5.566	0.09	19#
Ant0+Ant8+ER	3.167	14.00	-78.00	-2.72	2.033	-39.00	56.00	-3.59	5.200	0.08	20#
Ant1+Ant2+ER	2.911	33.00	-72.60	-2.64	1.408	44.20	39.90	-0.26	4.319	0.08	21#
Ant1+Ant4+ER	2.911	33.00	-72.60	-2.64	1.900	30.10	75.00	-3.33	4.811	0.07	22#
Ant1+Ant5+ER	2.911	33.00	-72.60	-2.64	2.399	-20.00	65.00	-3.10	5.310	0.08	23#
Ant1+Ant8+ER	2.911	33.00	-72.60	-2.64	2.033	-39.00	56.00	-3.59	4.944	0.07	24#

Note: According to KDB 447498 D04, when the sum of SAR is larger than SAR limit or client defined limit, SAR test exclusion is determined by the SAR to peak location separation ratio(SPLSR).When the SAR to peak location ratio for each pair of antennas is $\leq 1\text{-g } 0.04$ and $10\text{-g } 0.10$, simultaneous SAR evaluation is not required. More detail SPLSR please refers the next SPLSR Evaluation Analysis section.



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9 Equipment list

Test Platform		SPEAG DASY Professional				
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-027	NCR	NCR
☒	DAE	SPEAG	DAE4ip	SZ-WSR-M-074	2025/8/15	2026/8/14
☒	DAE	SPEAG	DAE4	SZ-WSR-M-081	2025/8/29	2026/8/28
☒	DAE	SPEAG	DAE4	SZ-WSR-M-100	2026/2/2	2027/2/1
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-069	2025/10/22	2026/10/21
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-075	2025/10/14	2026/10/13
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-082	2025/12/19	2026/12/18
☒	Validation Kits	SPEAG	D750V3	SZ-WSR-M-032	2025/6/18	2028/6/17
☒	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2025/10/14	2028/10/13
☒	Validation Kits	SPEAG	D1750V2	SZ-WSR-M-035	2025/6/18	2028/6/17
☒	Validation Kits	SPEAG	D1900V2	SZ-WSR-M-036	2025/10/13	2028/10/12
☒	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2025/10/15	2028/10/14
☒	Validation Kits	SPEAG	D2600V2	SZ-WSR-M-040	2025/6/17	2028/6/16
☒	Validation Kits	SPEAG	D3500V2	SZ-WSR-M-041	2025/10/15	2028/10/14
☒	Validation Kits	SPEAG	D3700V2	SZ-WSR-M-042	2025/10/13	2028/10/12
☒	Validation Kits	SPEAG	D3900V2	SZ-WSR-M-043	2025/10/15	2028/10/14
☒	Validation Kits	SPEAG	D5GHzV2	SZ-WSR-M-046	2025/10/14	2028/10/13
☒	Dielectric parameter probes	SPEAG	DAKS-3.5	SZ-WSR-M-053	2025/6/15	2026/6/14
☒	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	SZ-WSR-M-054	2025/6/15	2026/6/14
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-005	2025/12/16	2026/12/15
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-018	2025/5/22	2026/5/21
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-020	2025/8/14	2026/8/13
☒	RF Bi-Directional Coupler	Agilent	86205-60001	SZ-WSR-A-004	NCR	NCR
☒	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2025/12/16	2026/12/15
☒	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR
☒	Preamplifier	Compliance Directions	AMP28-3W	SZ-WSR-A-002	NCR	NCR



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SZSAR-TRF-01 Rev. A/2

Report No.: SZCR260200054301

Page: 156 of 157

		Systems Inc.				
☒	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2025/12/16	2026/12/15
☒	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2025/12/16	2026/12/15
☒	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2025/12/16	2026/12/15
☒	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR
☒	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2025/5/19	2026/5/18
☒	Temperature	MingGao	T809	SZ-WSR-M-015	2025/5/19	2026/5/18
☒	Temperature	MingGao	T809	SZ-WSR-M-016	2025/5/19	2026/5/18
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-013	2025/5/19	2026/5/18
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-012	2025/5/16	2026/5/15
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-011	2025/5/16	2026/5/15

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 ---



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