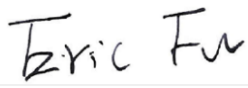
FCC SAR TEST REPORT

Application No.:	SZCR2501000291WM
Applicant:	vivo Mobile Communication Co., Ltd.
Address of Applicant:	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
Manufacturer:	vivo Mobile Communication Co., Ltd.
Address of Manufacturer:	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
EUT Description:	Mobile phone
Model No.:	V2440
Trade Mark:	vivo
FCC ID:	2AUCY-V2440A
Standards:	FCC 47CFR §2.1093
Date of Receipt:	2025-01-06
Date of Test:	2025-01-08 to 2025-01-23 (for original report SZCR241200494509) 2025-02-08 to 2025-02-14 (for new report SZCR250100029101)
Date of Issue:	2025-02-17
Test Result :	**PASS ***

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

Keny Xu
EMC Laboratory Manager

Revision Record			
Version	**Description**	**Date**	**Remark**
01		2025-02-17	

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

TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.65	0.30	0.31	/
GSM1900	0.85	0.24	0.51	/
WCDMA Band II	0.69	0.50	0.39	2.33
WCDMA Band IV	0.99	0.49	0.48	1.74
WCDMA Band V	0.62	0.29	0.43	/
LTE Band 2	0.97	0.65	0.56	2.31
LTE Band 7	0.62	0.65	0.43	1.97
LTE Band 12/17	0.69	0.25	0.34	/
LTE Band 13	0.75	0.35	0.38	/
LTE Band 26/5	0.91	0.24	0.41	/
LTE Band 41/38	0.93	0.52	0.60	2.31
LTE Band 66/4	**0.99**	0.59	0.61	2.46
NR Band n2	0.70	0.56	0.80	1.94
NR Band n7	0.79	0.53	0.48	2.12
NR Band n26/5	0.83	0.31	0.42	/
NR Band n41/38	0.98	**0.79**	0.56	**2.69**
NR Band n66	0.72	0.54	0.61	1.91
NR Band n77	0.88	0.78	**0.82**	2.23
NR Band n78	0.97	0.78	0.58	1.89
WI-FI (2.4GHz)	0.70	0.27	0.39	/
WI-FI (5GHz)	0.46	0.34	0.56	0.92
BT	0.13	<0.10	<0.10	/
SAR Limited(W/kg)	1.6			4.0

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Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR
Sum SAR	1.39	1.38	1.38	3.69
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1

Note: The Simultaneous transmission SAR is the same test position of the WWAN Antenna + WLAN Antenna.
According to TCB workshop (Overlapping LTE Bands): SAR in LTE band 4 (frequency range: 1710-1755 MHz) is covered by LTE band 66 (frequency range: 1710-1780 MHz). SAR in LTE band 5 (frequency range: 824-849 MHz) are covered by LTE band 26 (frequency range: 814-849 MHz).SAR in LTE band 17 (frequency range: 704-716 MHz) is covered by LTE band 12 (frequency range: 699-716 MHz). SAR in LTE band 38 (frequency range: 2570~2620 MHz) is covered by LTE band 41 (frequency range: 2496~2690 MHz). SAR in NR Band n5 (frequency range: 824-849 MHz) are covered by NR Band n26 (frequency range: 814-849 MHz). SAR in NR Band n38 (frequency range: 2570-2620 MHz) is covered by NR Band n41 (frequency range: 2496-2690 MHz). Because the frequency range is similar, the maximum tuning limit is the same, and the channel bandwidth and other operating parameters for the smaller band is fully supported by the larger band.

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1 General Information

1.1 General Description of EUT

Product Name:	Mobile phone		
Model No.:	V2440		
Trade Mark:	vivo		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	866007079998835; 866007079999072.		
Hardware Version:	MP_0.1		
Software Version:	PD2447EF_EX_A_15.0.2.10.W30		
Antenna Type:	Integrated antenna		
Device Operating Configurations:			
Modulation Mode:	**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, π/4DQPSK,8DPSK		
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)	Rx(MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850 ~1910	1930 ~1990

	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869-894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 17	704-716	734-746
	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 66	1710~1780	2110~2180
	NR Band n2	1850 ~1910	1930 ~1990
	NR Band n5	824~849	869-894
	NR Band n7	2500~2570	2620~2690
	NR Band n26	814~849	859~894
	NR Band n38	2570~2620	2570~2620
	NR Band n41 (Class 2/3)	2496~2690	2496~2690
	NR Band n66	1710~1780	2110~2180
	NR Band n77(Class 2/3)	3450~3550	3450~3550
		3700~3980	3700~3980
	NR Band n78(Class 2/3)	3450~3550	3450~3550
		3700~3800	3700~3800
	WIFI 2.4G	2412~2462	2412~2462
	WIFI 5G	5150~5250	5150~5250
		5250~5350	5250~5350
		5470~5725	5470~5725
		5725~5850	5725~5850
	BT	2402~2480	2402~2480

RF Cable:	☒Provided by applicant ☐Provided by the laboratory	
Battery Information:	Model:	BA93
	Normal Voltage:	3.91V
	Rated capacity:	6380mAh
	Manufacturer:	Dongguan NVT Technology Co.,Ltd

Note:
*Since the above data and/or information is provided by the client relevant results or conclusions of this

report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
Remark:
As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Remark:
This test report (Report No.: SZCR250100029101 issue on 2025-02-17) is based on the original test report (Report No.: SZCR241200494509 issue on 2025-01-27).
According to the declaration from the applicant, The main difference between FCC ID: 2AUCY-V2440 and FCC ID: 2AUCY-V2440A is as below:

- Remove the NFC.

Therefore in this report only spot check the worst case and other test data in this report are based on the previous report with report number SZCR241200494509 issue on 2025-01-27.

1.1.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix D

Note:

1) The test device is a smart phone. The overall diagonal dimension of this device is 175.1mm. Per KDB 648474 D04, because the diagonal distance of this device is ≥160mm, so it is a phablet.

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

Distance of the Antenna to the EUT surface/edge						
Mode	Front	Back	Left	Right	Top	Bottom
Ant11	≤25mm	≤25mm	≤25mm	>25mm	>25mm	>25mm
Ant12	≤25mm	≤25mm	≤25mm	>25mm	≤25mm	>25mm
Ant13	≤25mm	≤25mm	≤25mm	>25mm	≤25mm	>25mm
Ant21	≤25mm	≤25mm	>25mm	>25mm	≤25mm	>25mm
Ant22	≤25mm	≤25mm	>25mm	≤25mm	≤25mm	>25mm
Ant23	≤25mm	≤25mm	>25mm	≤25mm	≤25mm	>25mm
Ant31	≤25mm	≤25mm	≤25mm	≤25mm	>25mm	≤25mm

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

Note:

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

1.1.2 Power reduction specification

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

1) This device uses the receiver to indicate whether the user is making a voice call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. A fixed level power reduction is applied for some frequency bands when the audio receiver is on.

2) A fixed level power reduction is applied for some frequency bands when simultaneously transmitting with the other antennas in certain simultaneous transmission conditions.

3) The proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance (Refer to section 5.4 for detailed proximity Sensor information and validation data per KDB 616217).

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

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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 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02

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:
SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.
Tel: +86 755 2601 2053 Fax: +86 755 2671 0594
No tests were sub-contracted.

1.5 Test Facility

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

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

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

- **VCCI (Member No. 1937)**

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

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.
Designation Number: CN1336. Test Firm Registration Number: 787754.

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

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.
CAB identifier: CN0006.
IC#: 4620C.

2 Laboratory Environment

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

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3 SAR Measurements System Configuraion

3.1 The SAR Measurement System

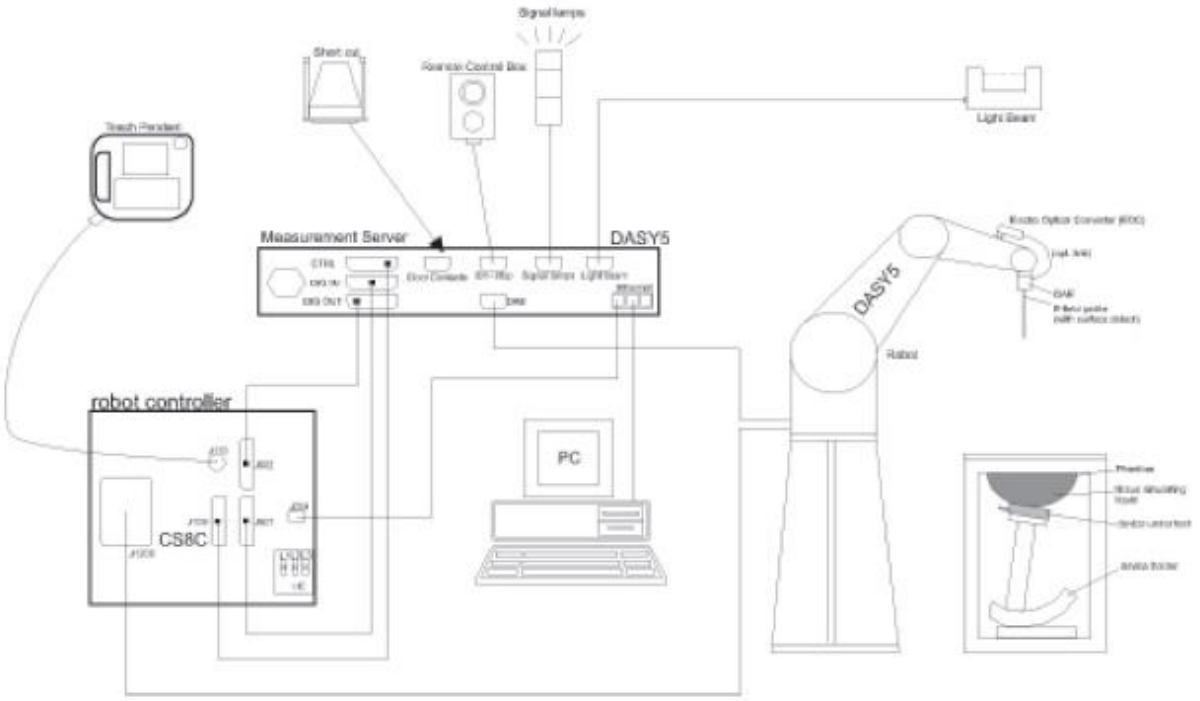
This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

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

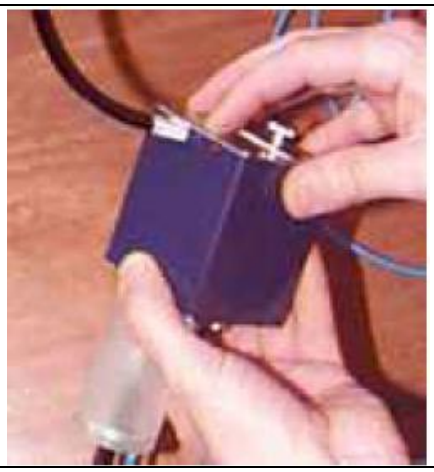
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows system.
- DASY 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.

3.2 Isotropic E-field Proble 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 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/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 DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)
Input Offset Voltage	< 5µV (with auto zero)
Input Bias Current	< 50 f A
Dimensions	60 x 60 x 68 mm



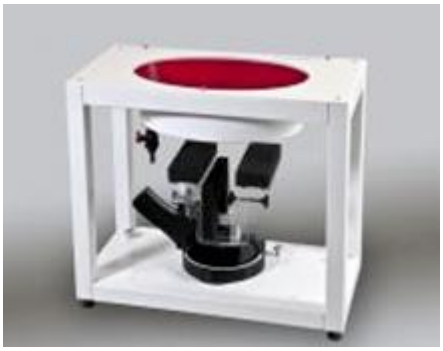
3.4 SAM Twin Phantom

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

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.
Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.

3.5 ELI Phantom

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



Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEEE 1528 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.
ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4 but has reinforced top structure.

3.6 Device Holder for Transmitters

F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.

- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε=3 and loss tangent δ=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≤2GHz), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

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

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

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 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 ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 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. ± 5 %

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3.7.2 Data storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension “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 Vi = compensated signal of channel I (I = x, y, z)
Ui = input signal of channel I (I = x, y, z)
cf = crest factor of exciting field (DASY parameter)
dcp I = diode compression point (DASY parameter)

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

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

H-field probes:

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

With Vi = compensated signal of channel I (I = x, y, z)
Normi = sensor sensitivity of channel I (I = x, y, z)
[mV/(V/m)2] for E-field Probes
ConvF = sensitivity enhancement in solution
aij = sensor sensitivity factors for H-field probes
f = carrier frequency [GHz]
Ei = electric field strength of channel I in V/m
Hi = magnetic field strength of channel I in A/m

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

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

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

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g
Etot = total field strength in V/m
σ= conductivity in [mho/m] or [Siemens/m]
ε= equivalent tissue density in g/cm3

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

$$P_{pwe} = Etot^2{}_2 / 3770 \text{ or } P_{pwe} = H_{tot}^2 \cdot 37.7$$

with Ppwe = equivalent power density of a plane wave in mW/cm2
Etot = total electric field strength in V/m
Htot = 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 (~ 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 KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

5 Desciption of Test Position

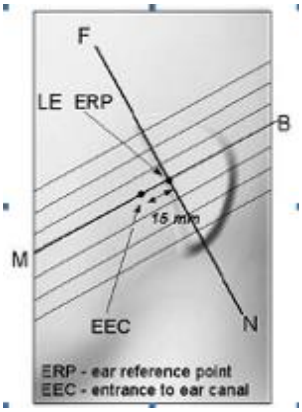
5.1 The Head Test Position

5.1.1 SAM Phantom Shape

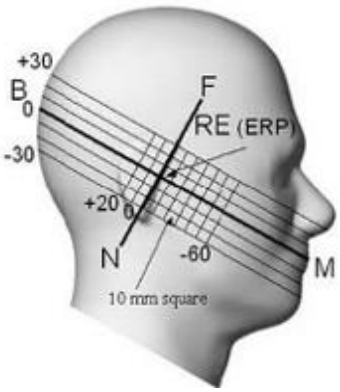
F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

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

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

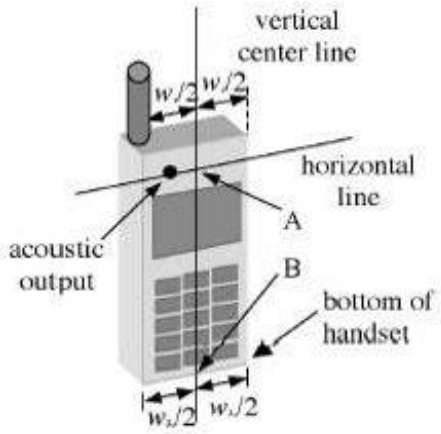


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

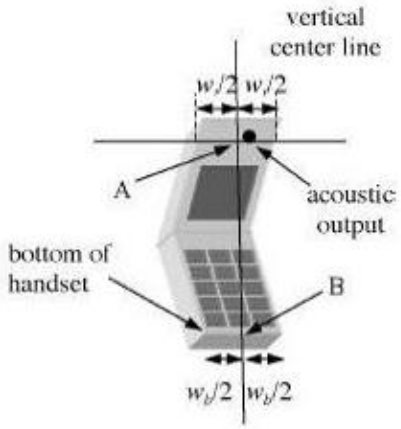


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

5.1.2 EUT constructions



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



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

5.1.3 Definition of the “check” position

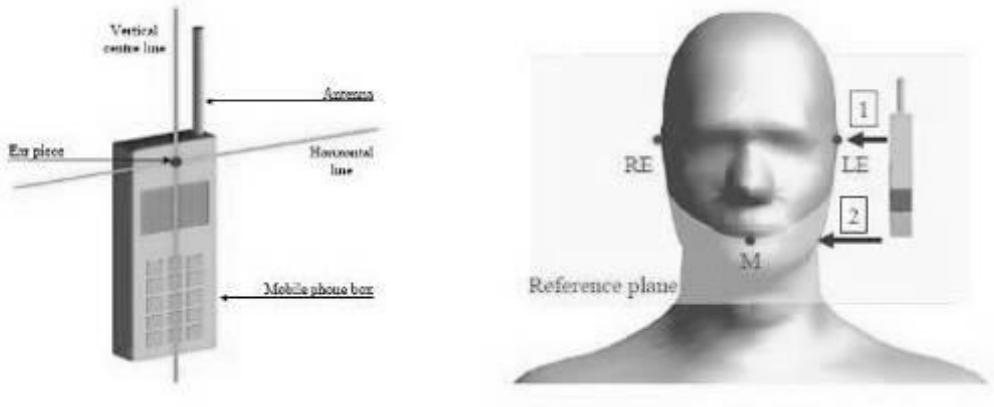
a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with the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

b) Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.

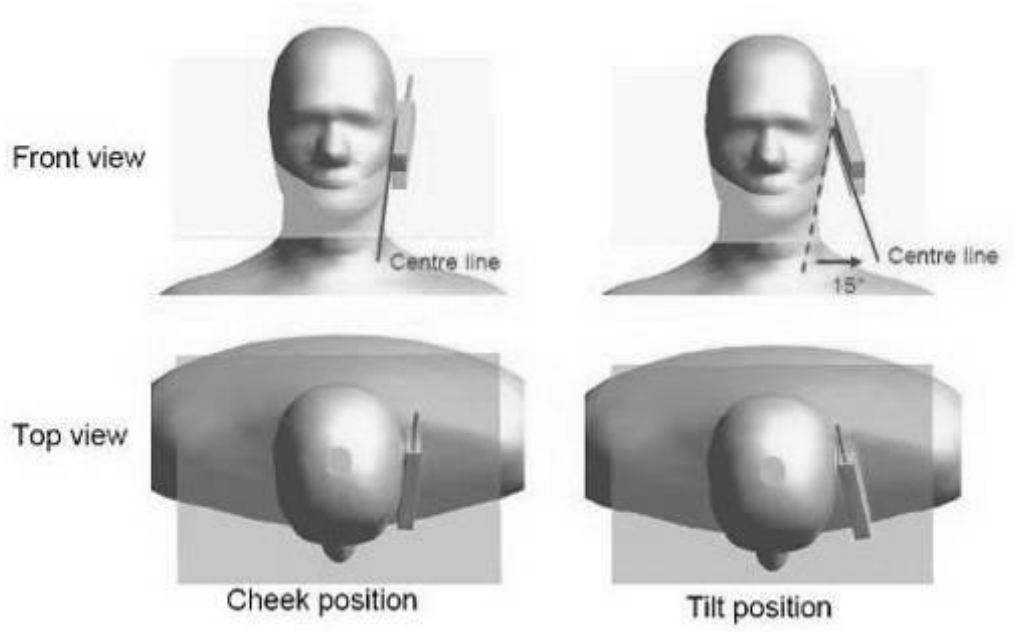
5.1.4 Definition of the “tilted” position

a) Position the device in the “cheek” position described above.

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



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



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

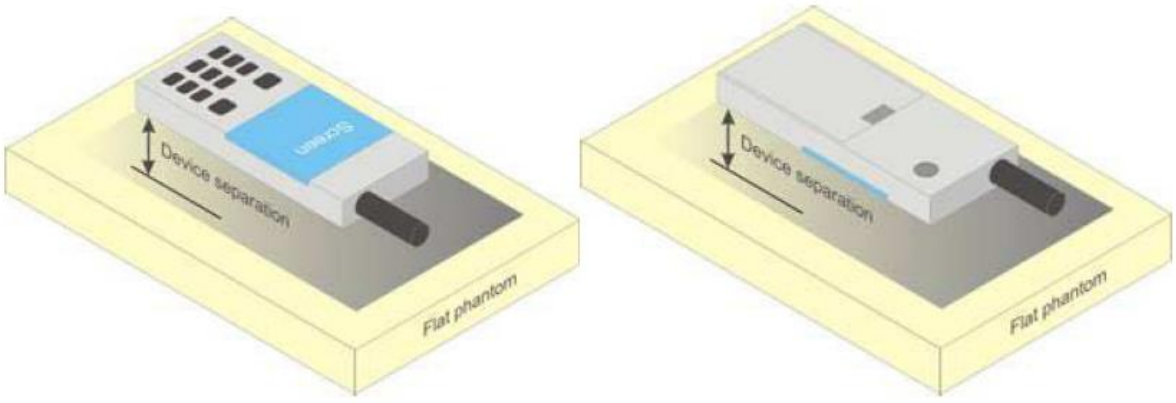
5.2 The Body Test Position

5.2.1 Body-worn accessory exposure conditions

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

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

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



F-11.Test positions for body-worn devices

5.2.2 Wireless Router exposure conditions

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

5.3 Extremity exposure conditions

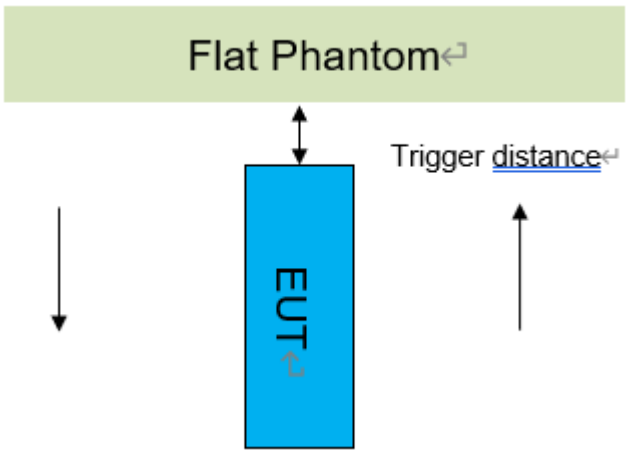
Per FCC KDB 648474D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as “Phablet”.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

Due to the SAR result, only the WCDMA B2/4,LTE B2/7/41/66,NR N2/7/41/66/77/78 frequency bands need to test with 0mm for the Product Specific 10-g SAR, the others are not required.

5.4 Proximity Sensor Triggering Test

Proximity sensor triggering distances：

The Proximity sensor triggering was applied to WWAN 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.

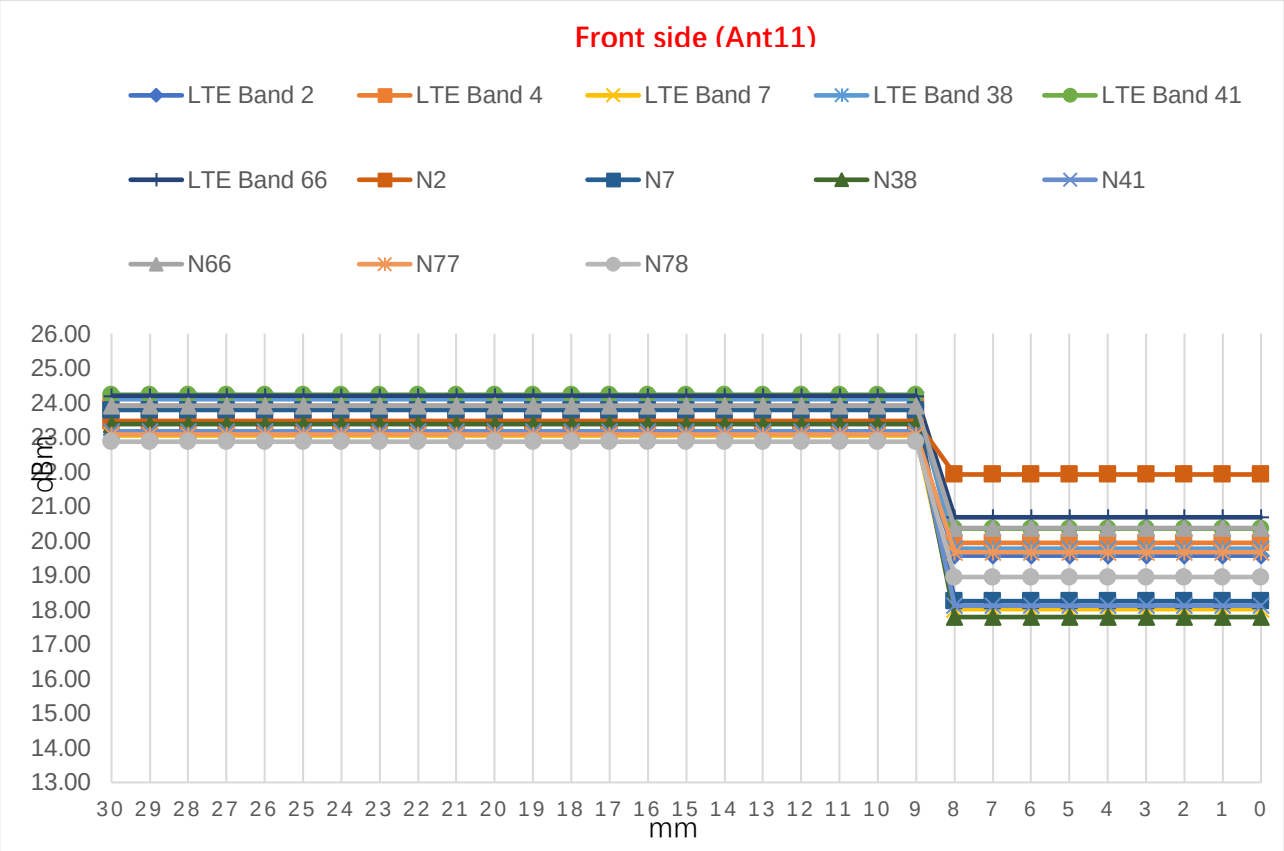


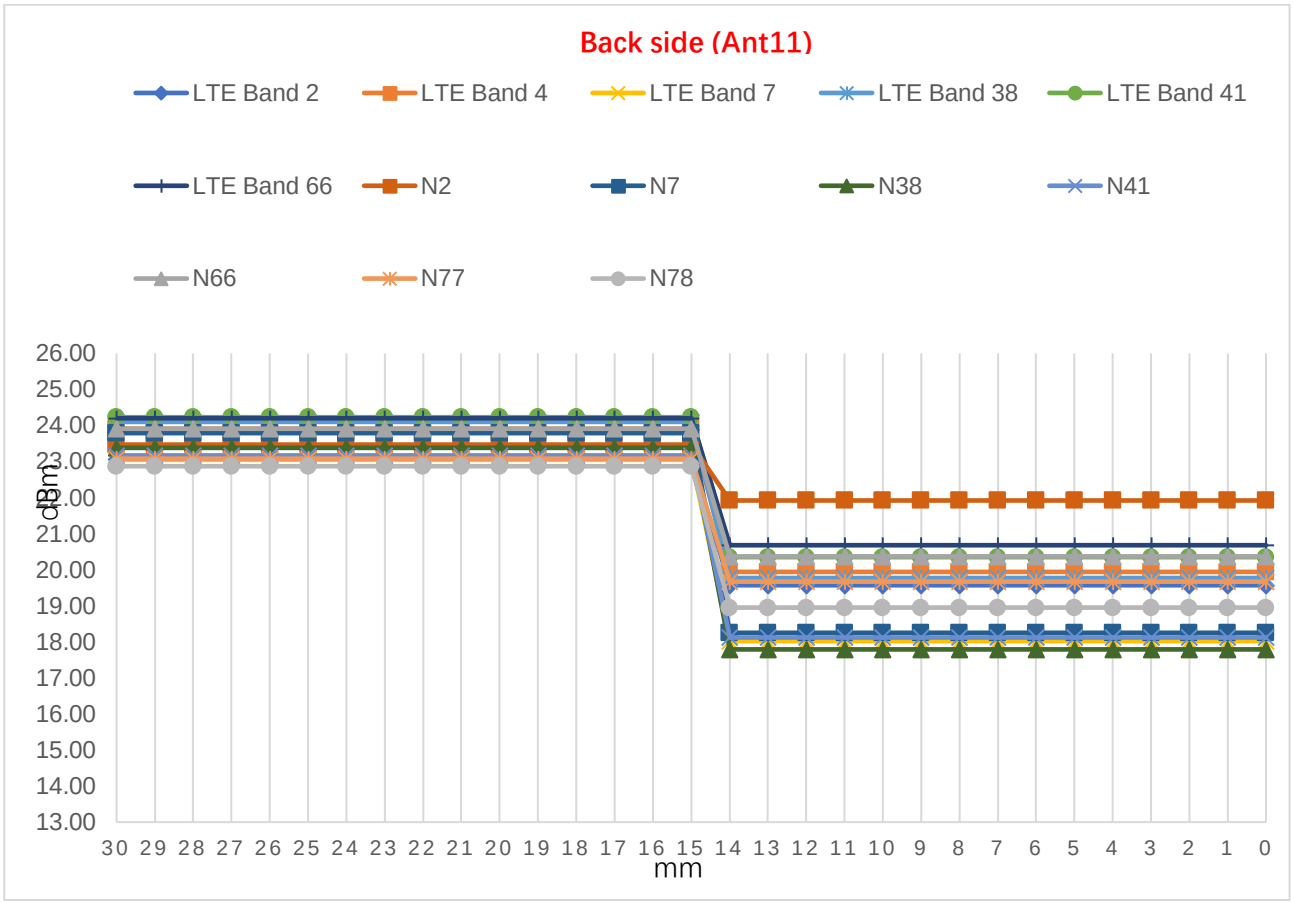
Proximity Sensor Triggering Distance(mm)			
Ant	Ant11	Ant12	Ant13
Band	LTE B2/4/7/38/41/66 NR n2/7/38/41/66/77/78	NR n77/78	GSM: 1900 WCDMA: B2/4 LTE B2/4/7/38/41/66 NR n2/5/7/38/41/66
Position	Front Side 8mm Back Side 14mm Left Side 16mm	Front Side 8mm Back Side 14mm Left Side 16mm	Front Side 8mm Back Side 14mm Top Side 15mm

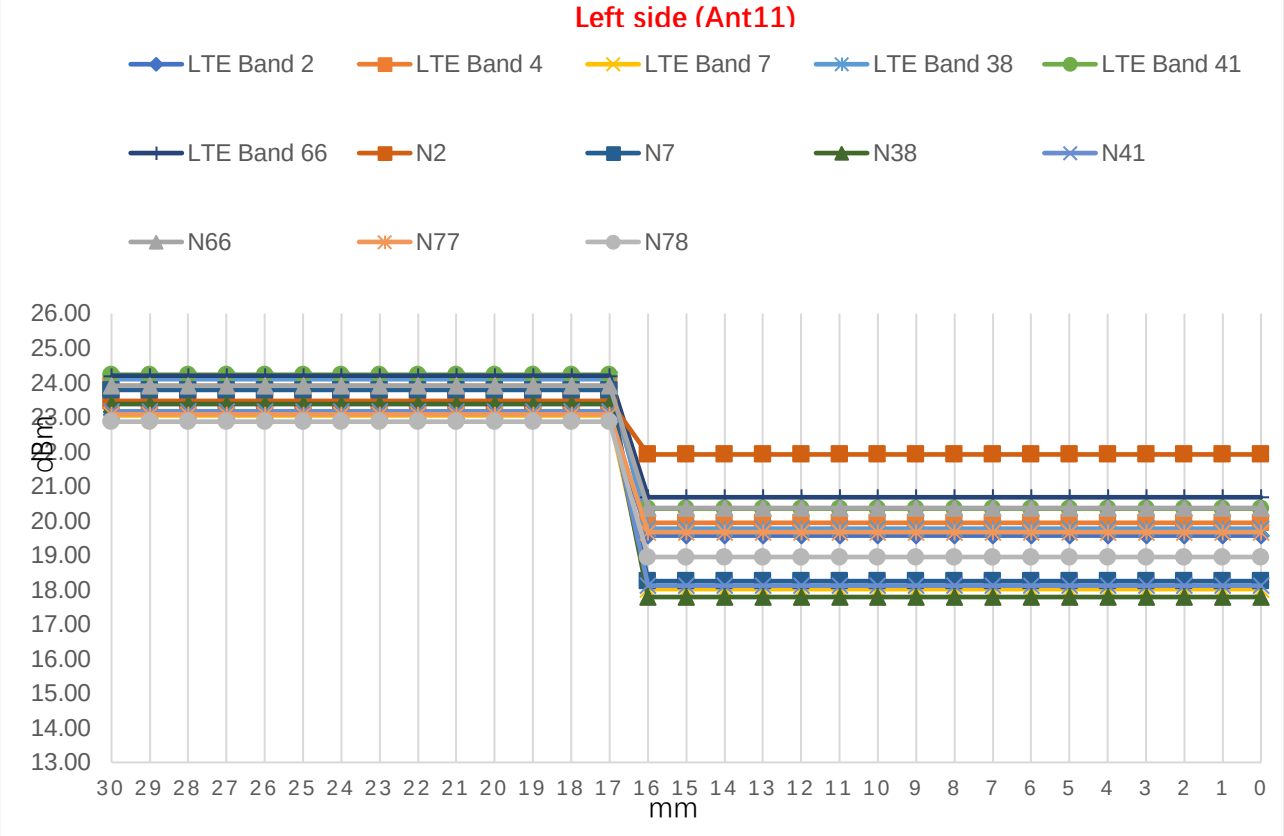
Note:

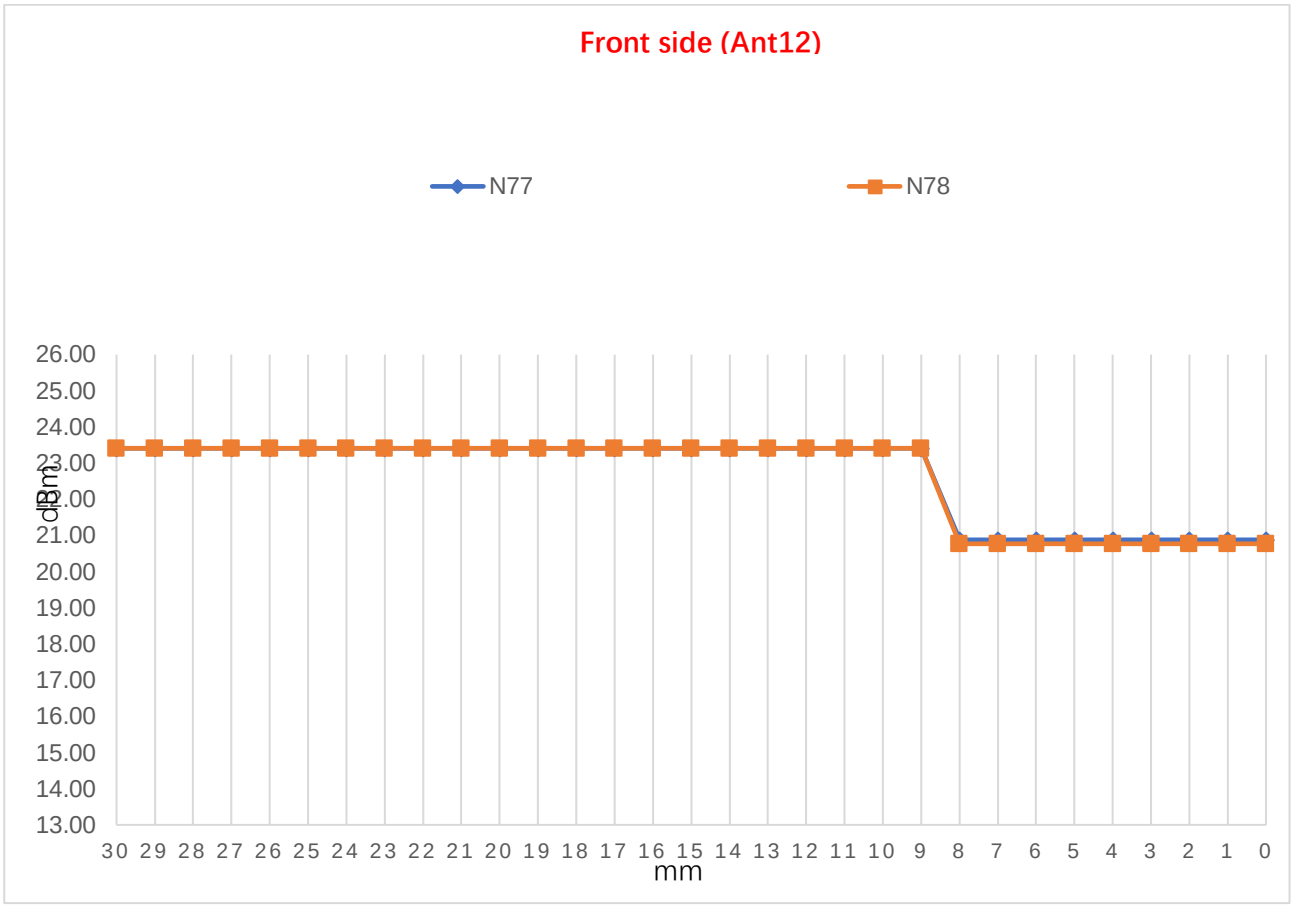
SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.

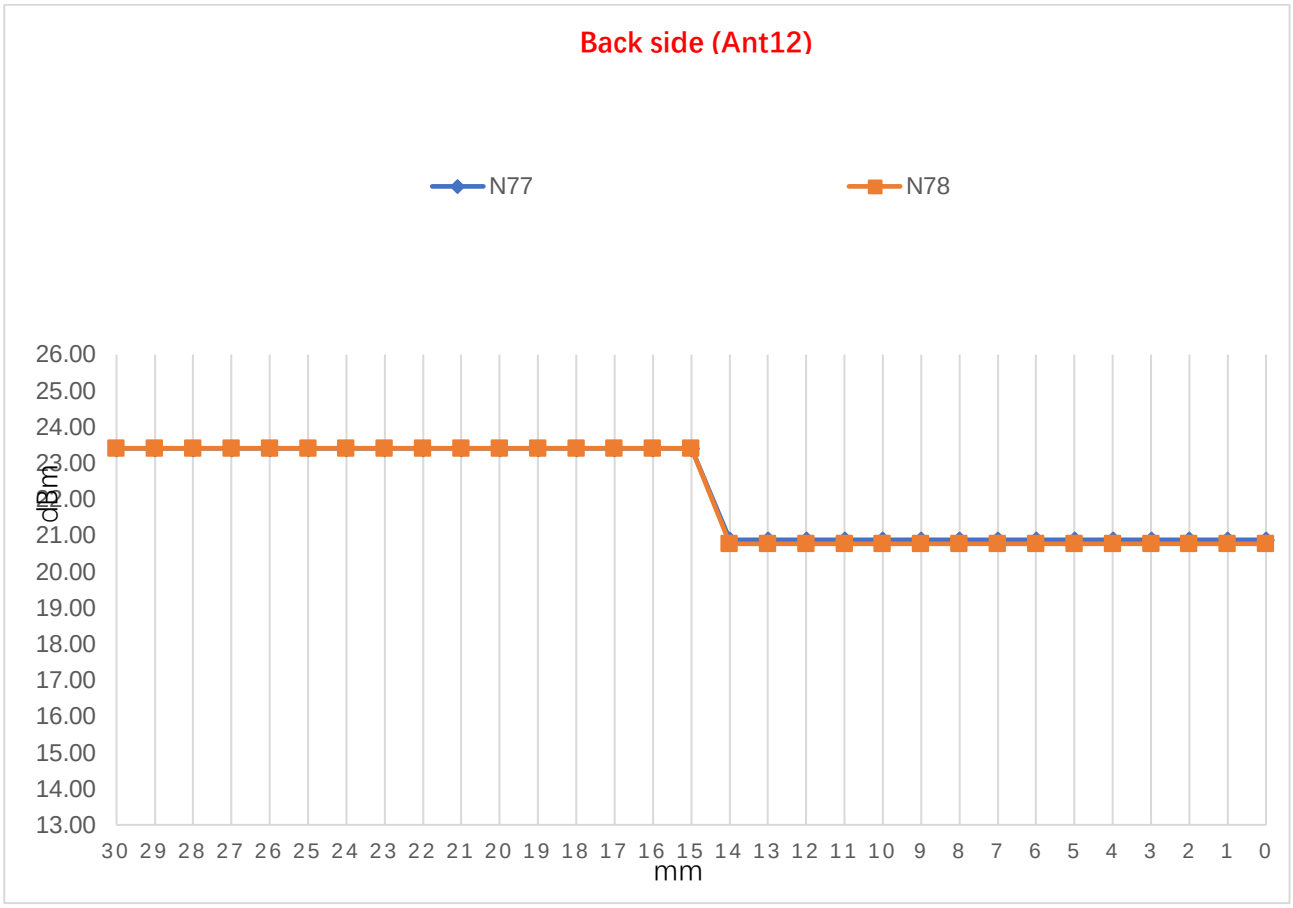
- DUT Moving Toward(Trigger)the Phantom

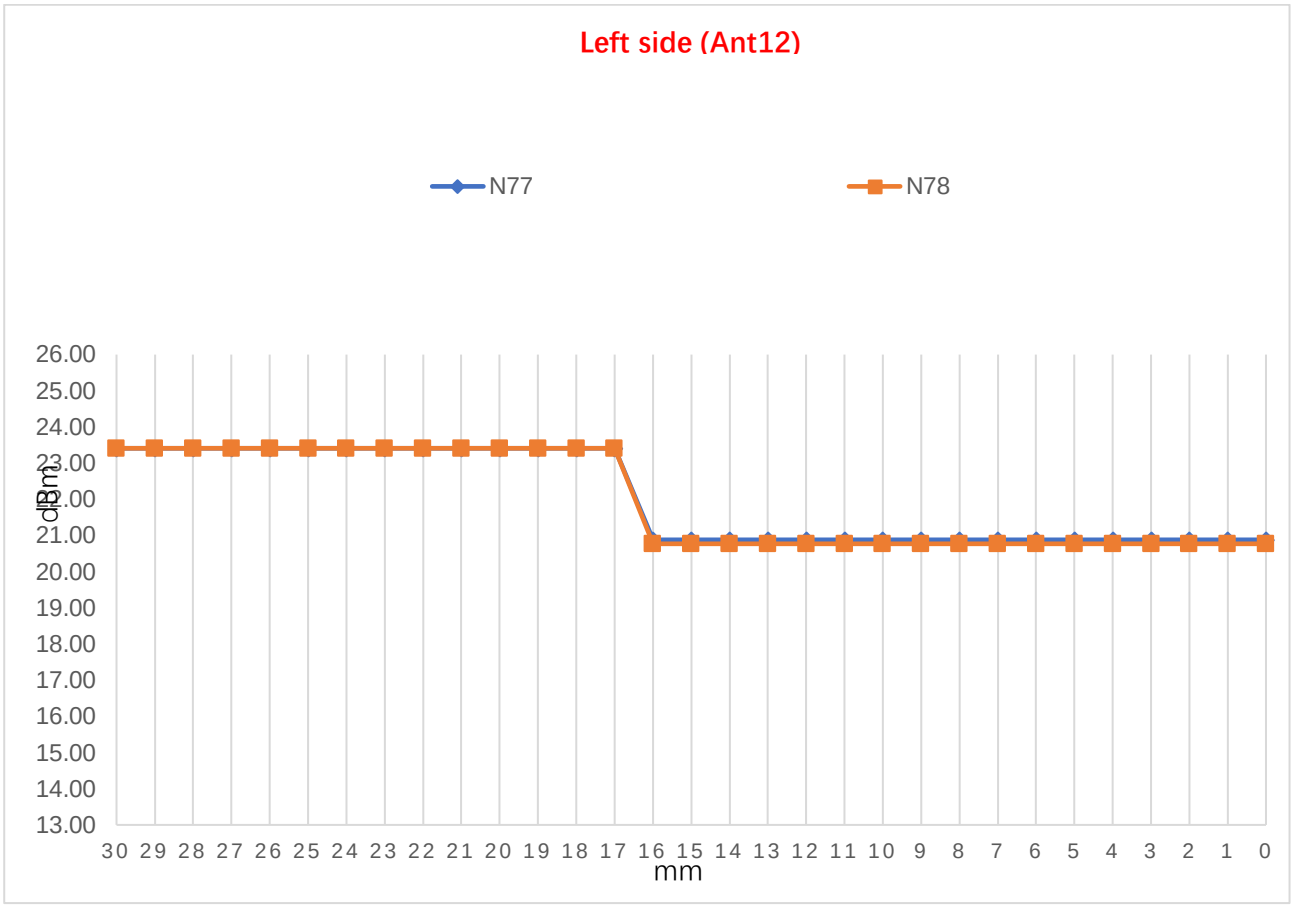


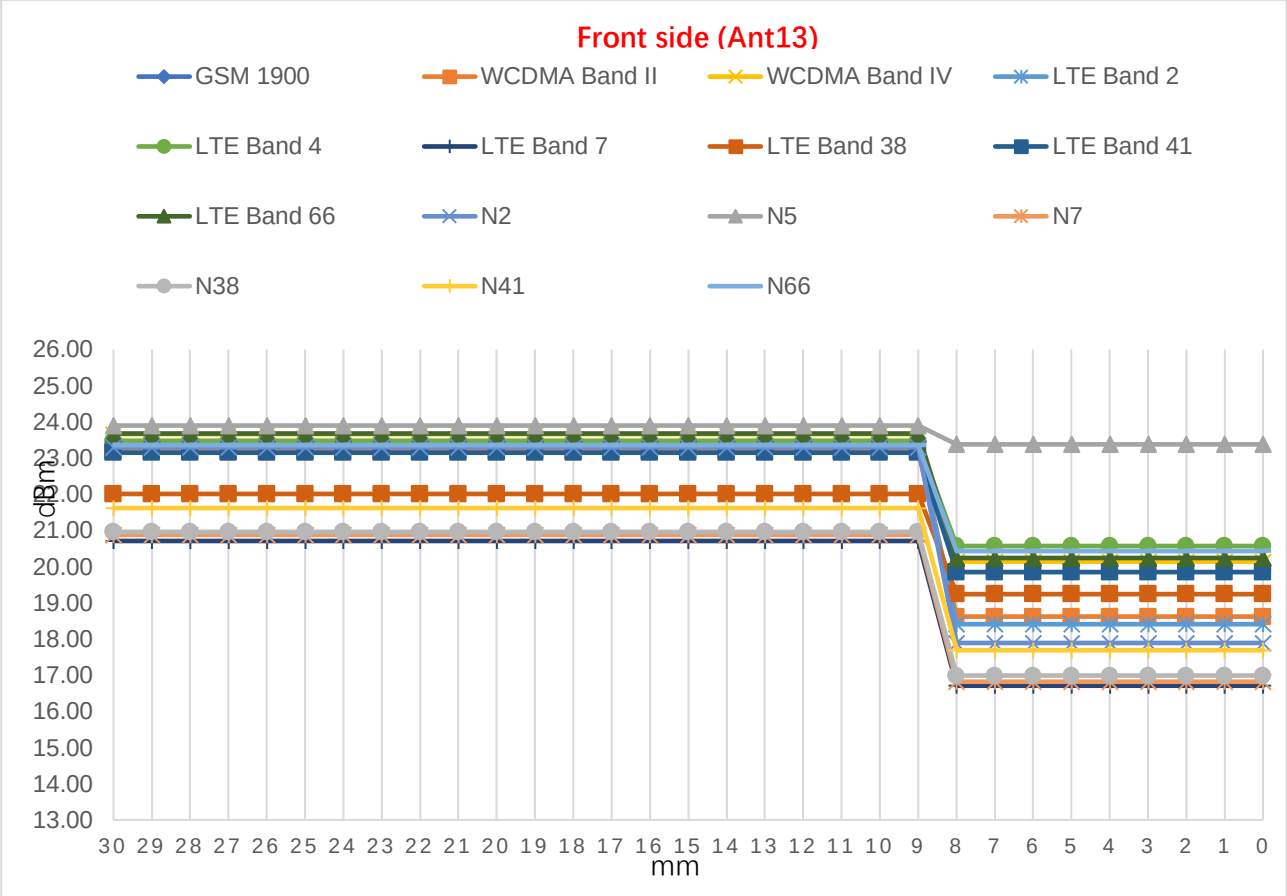


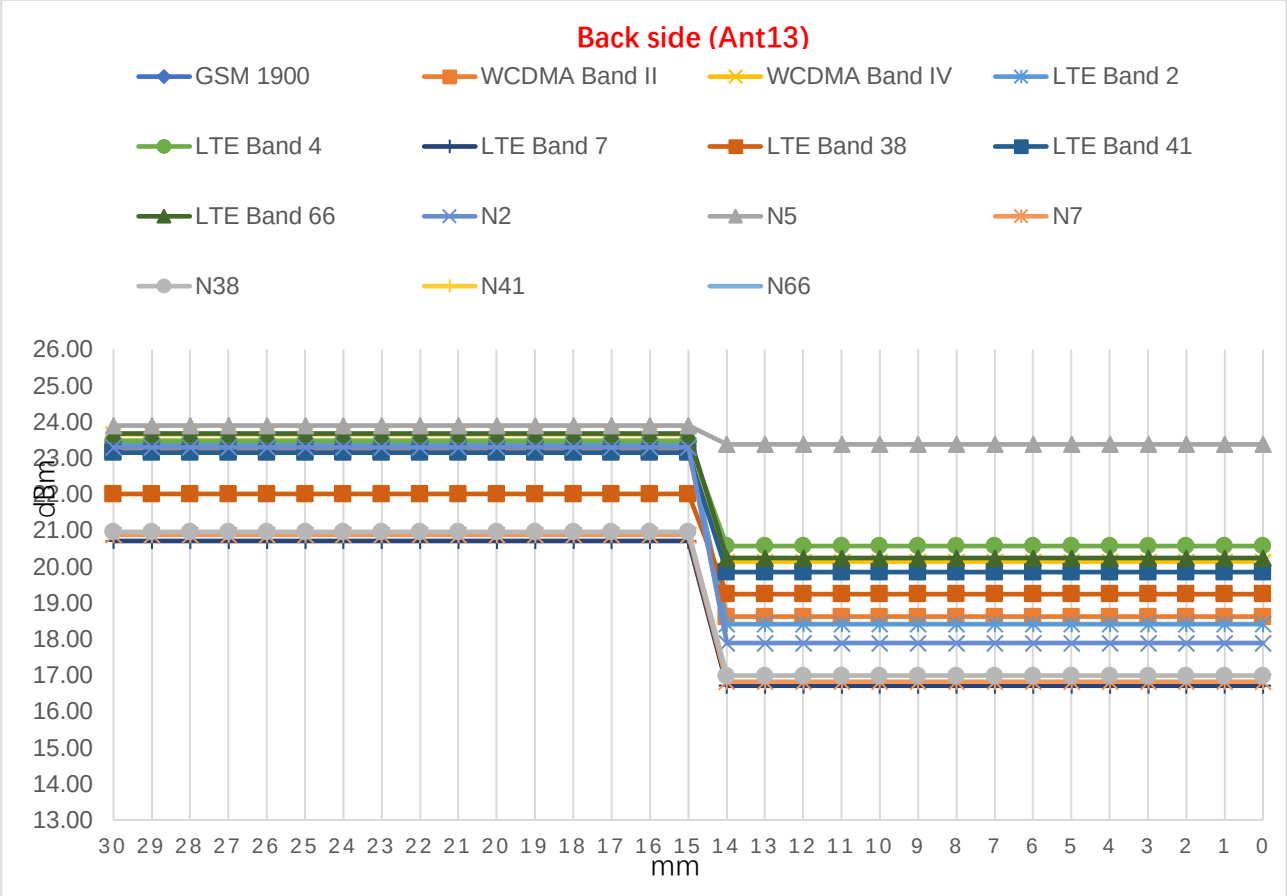


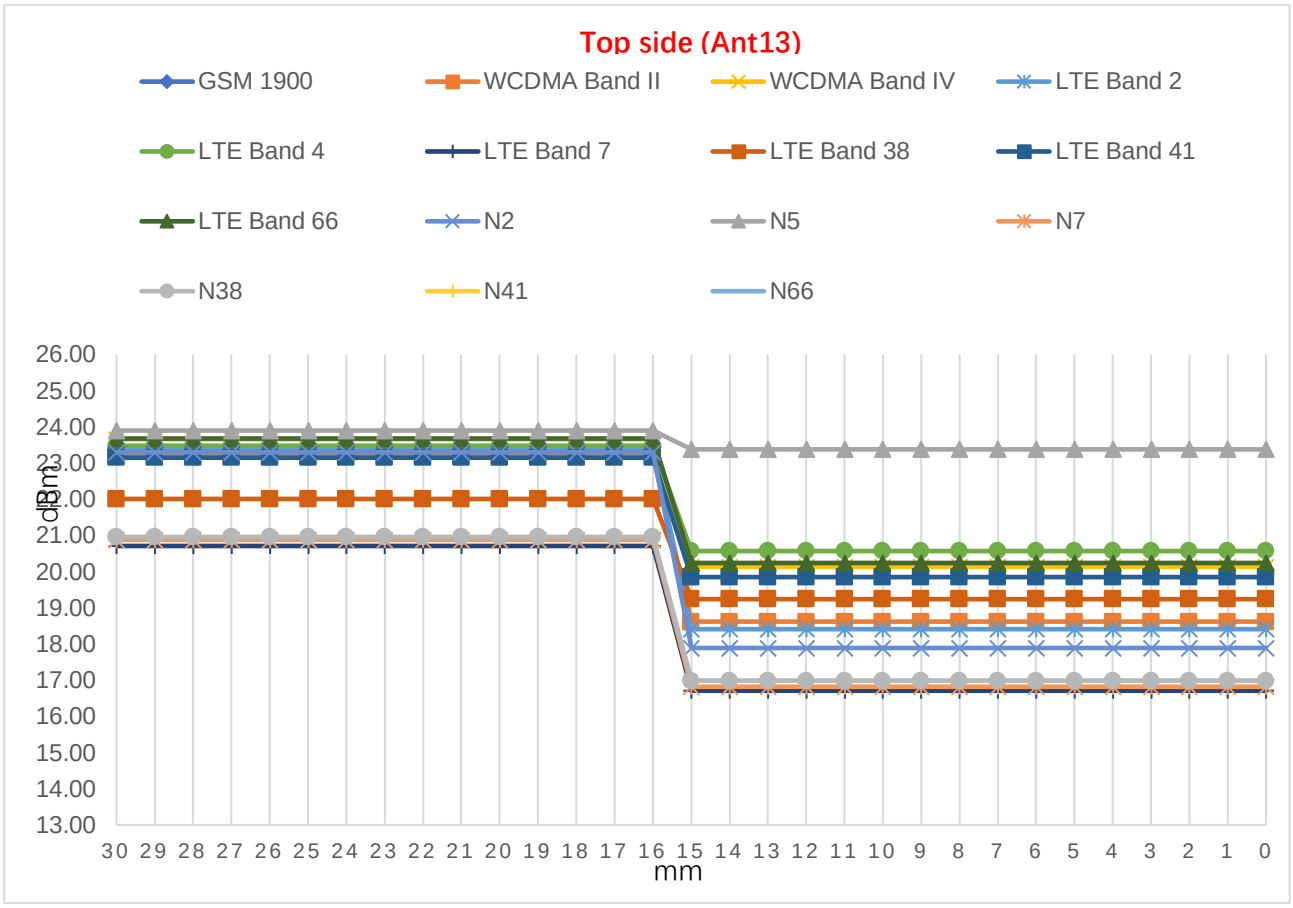




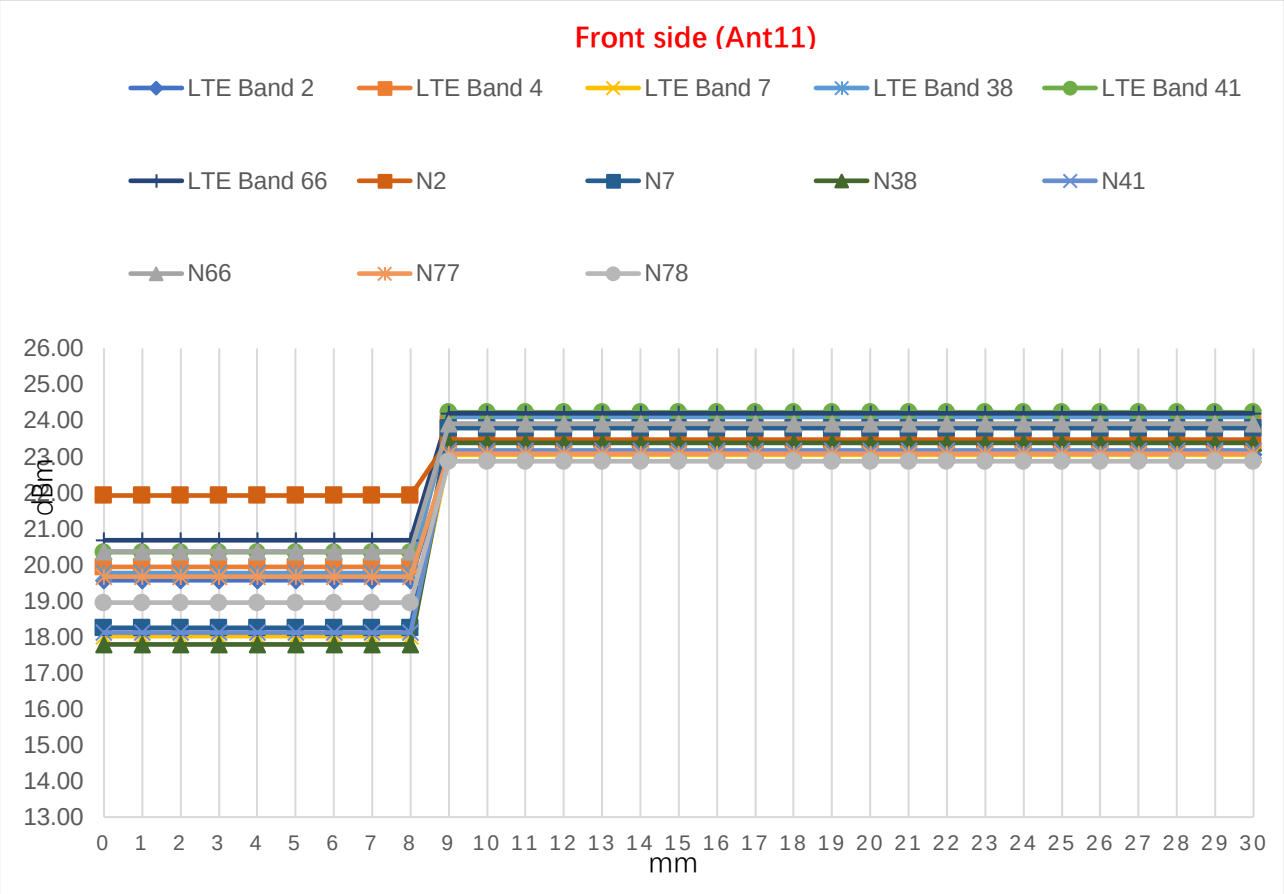


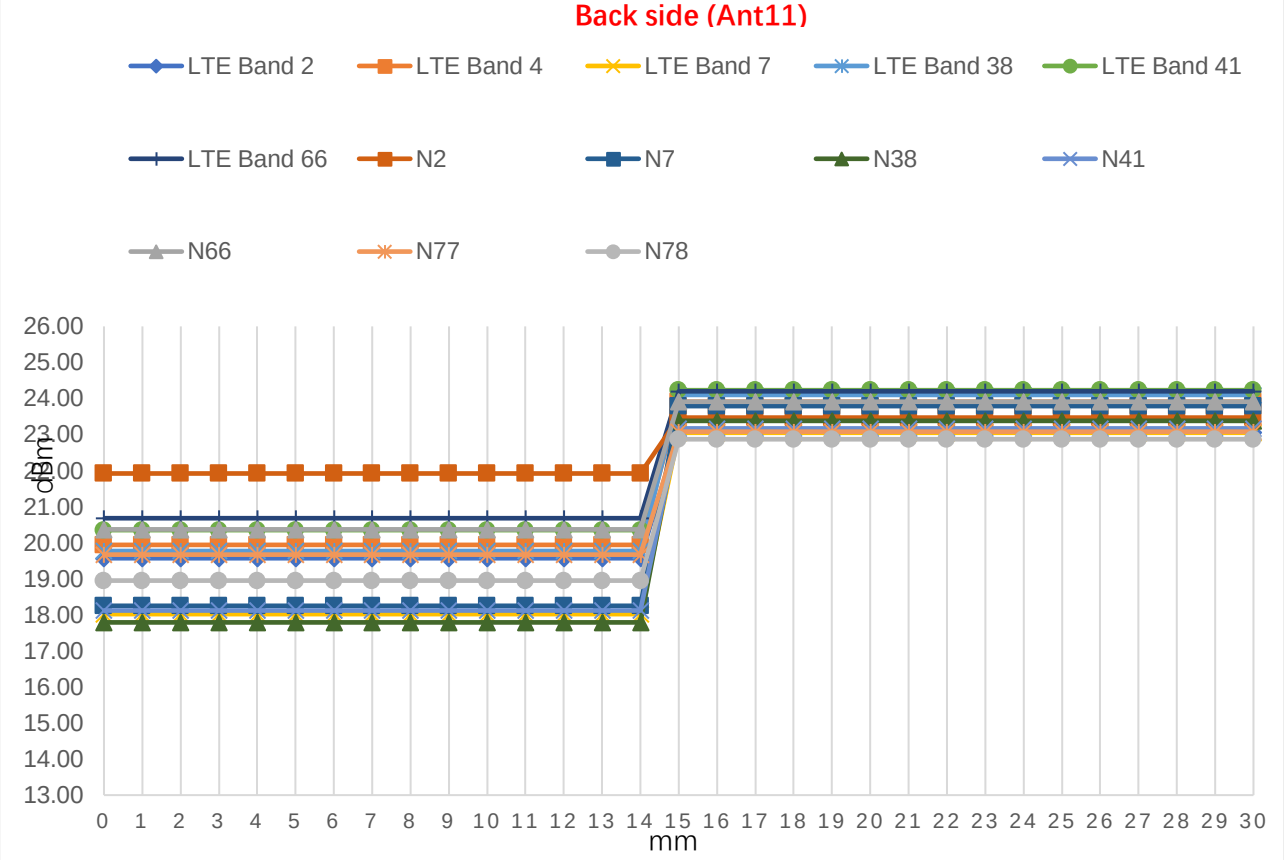


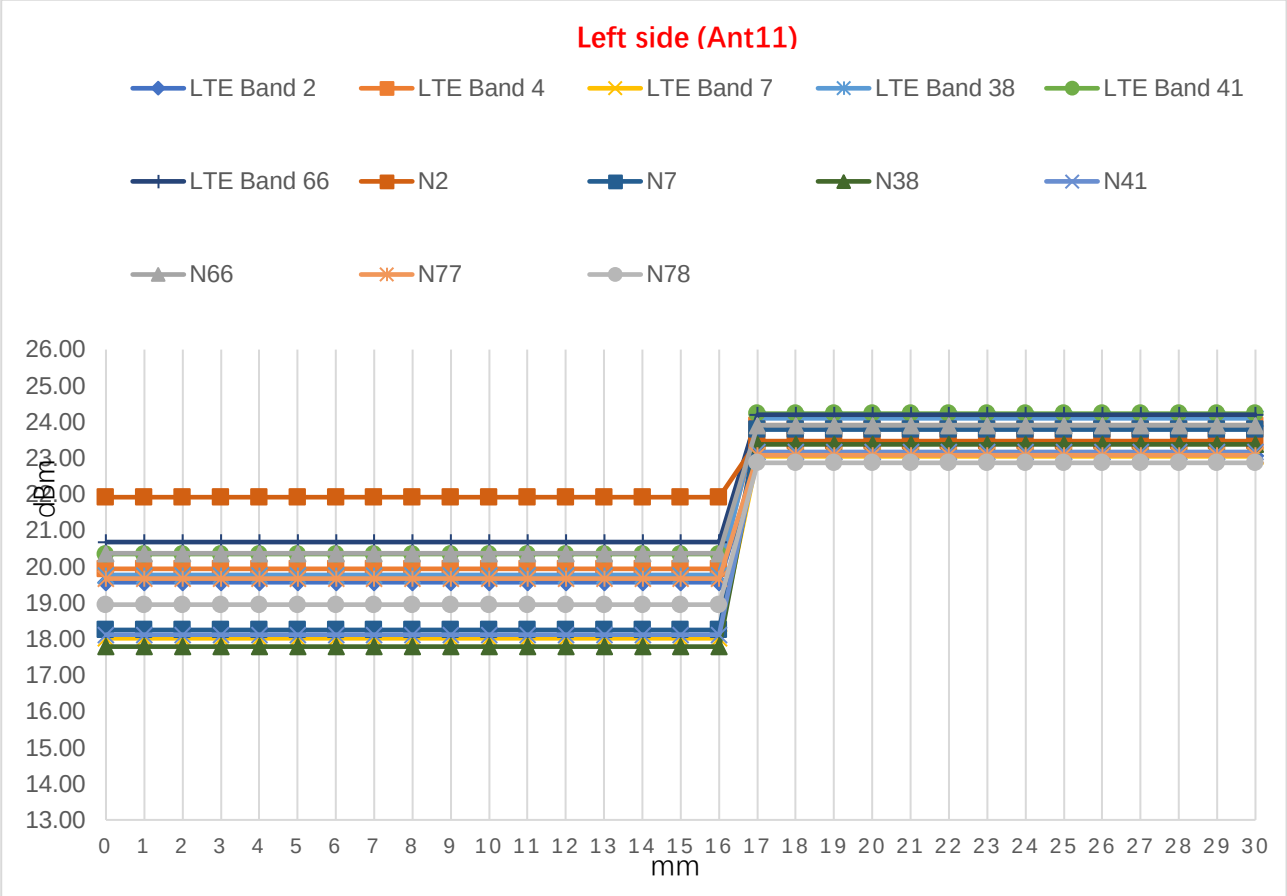


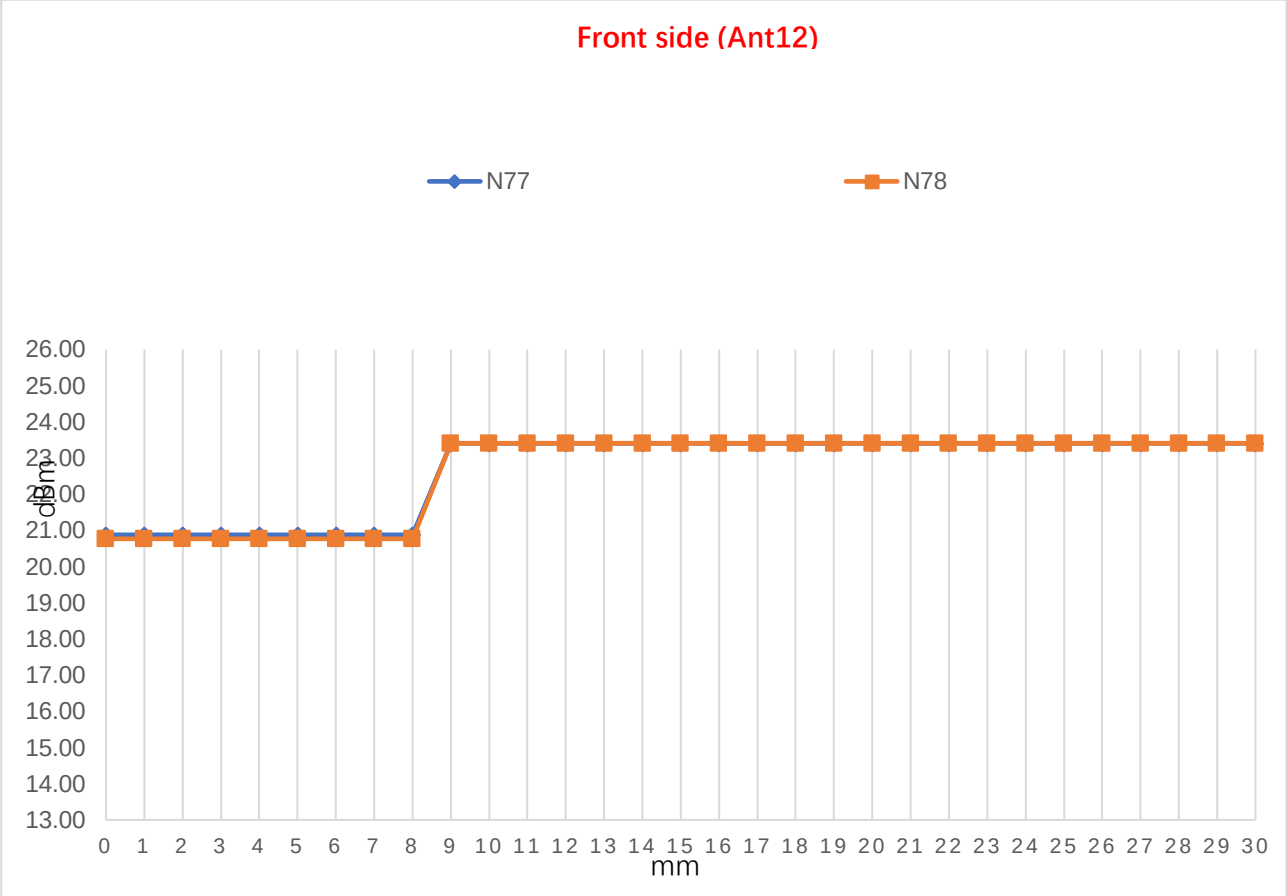


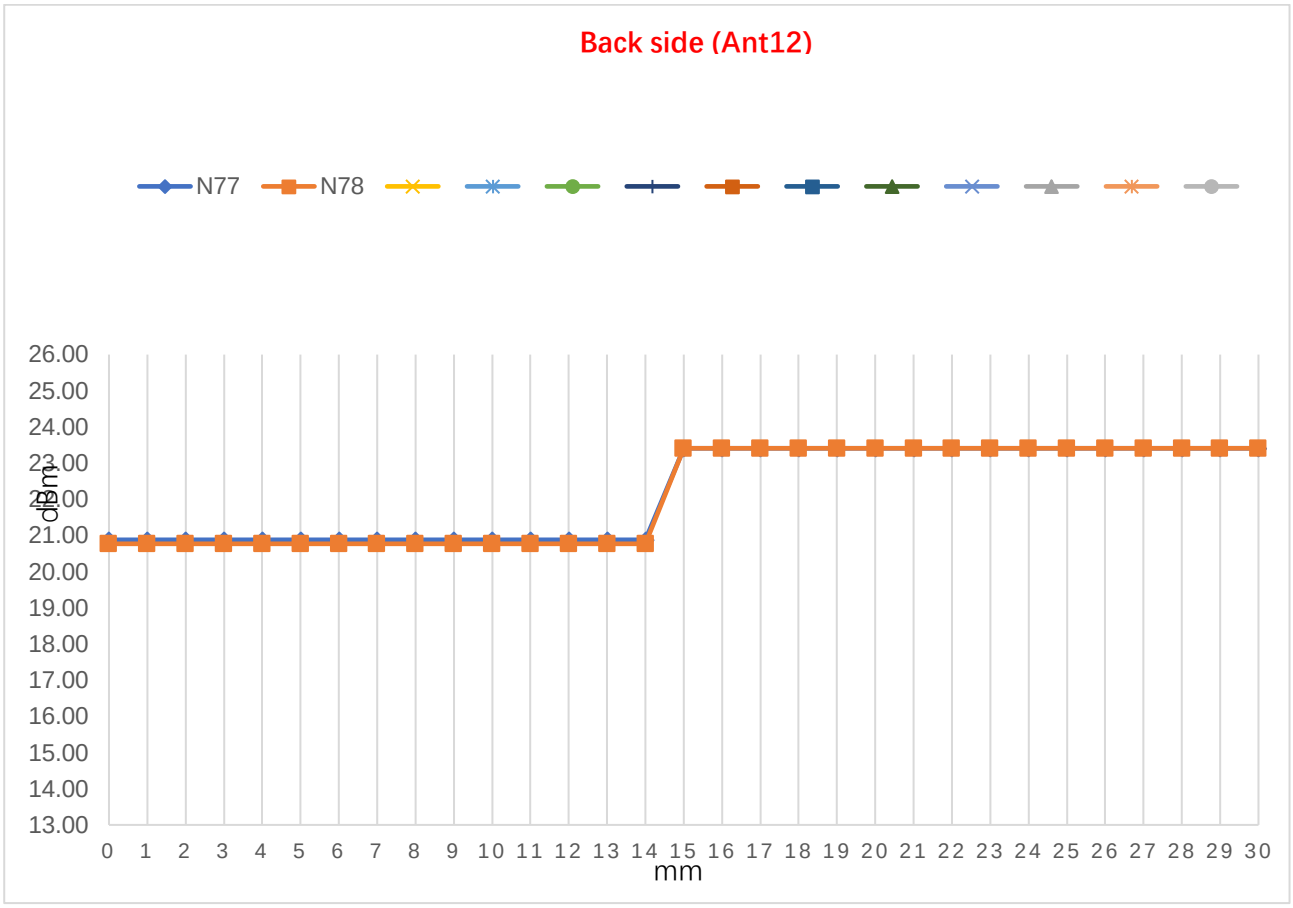
- DUT Moving Away(Release) from the Phantom

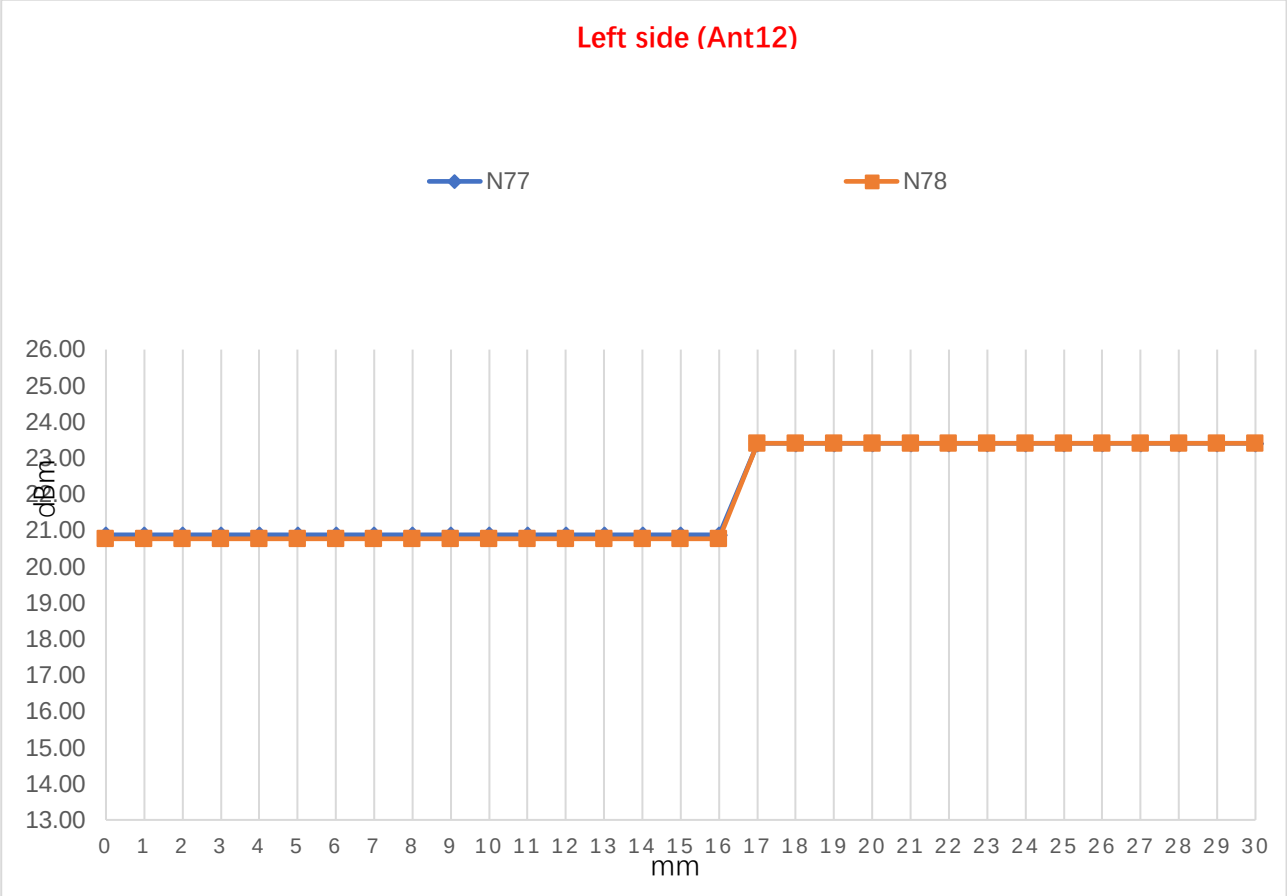


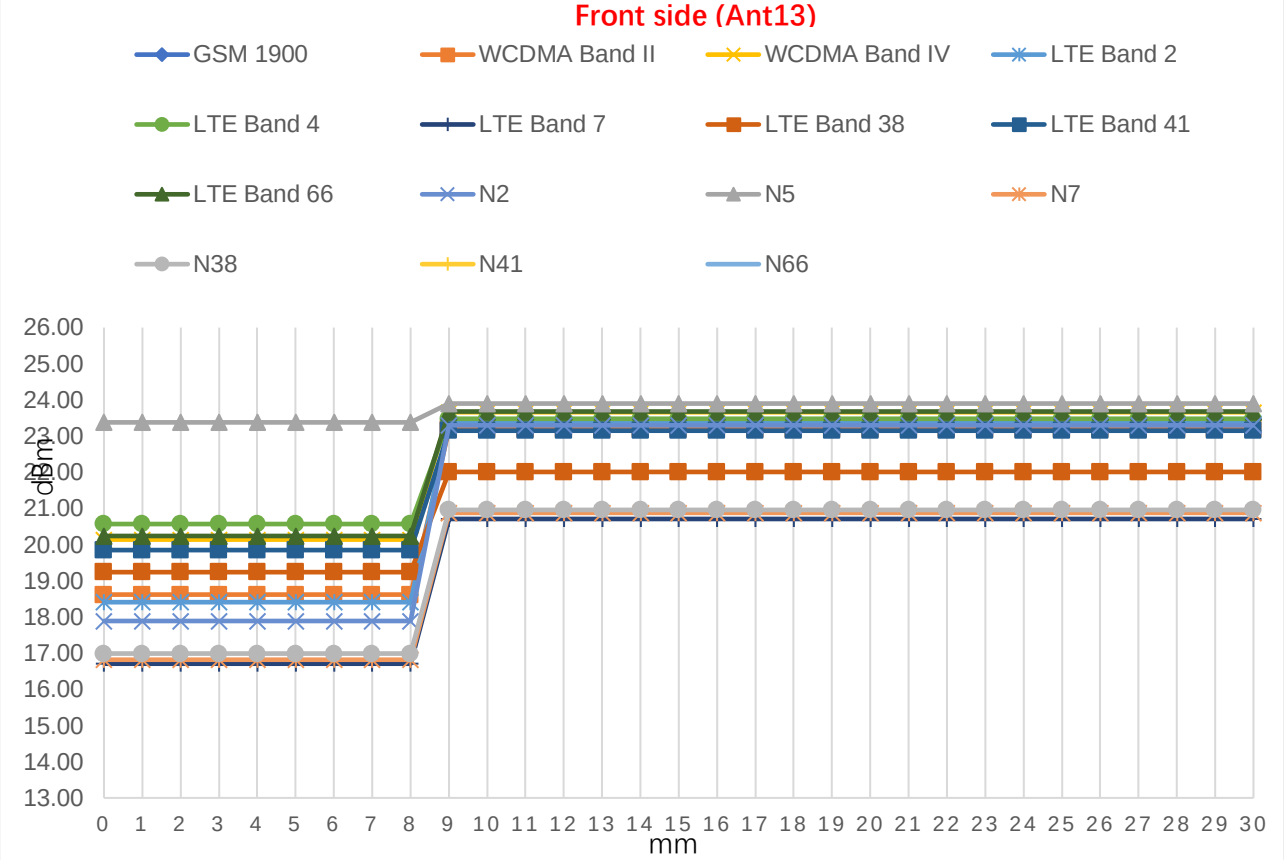


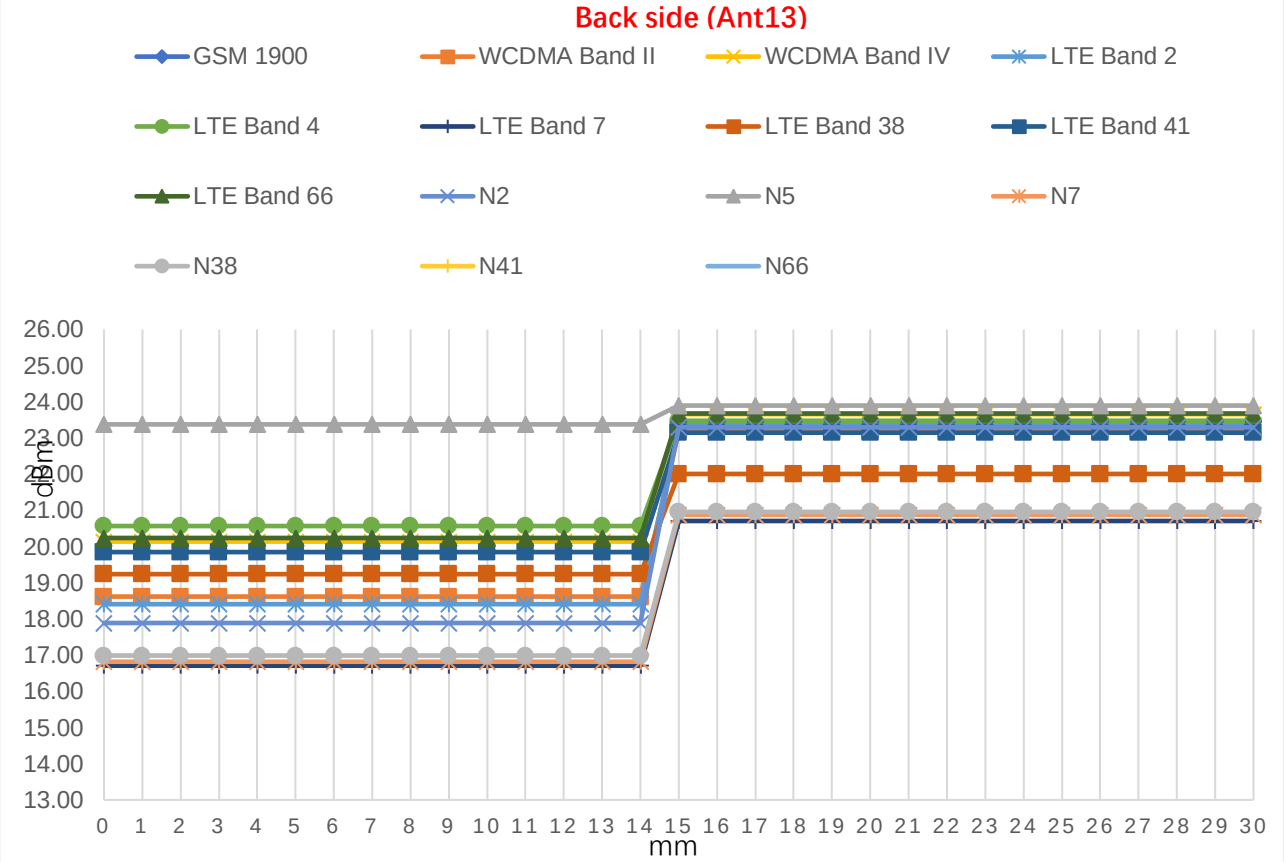


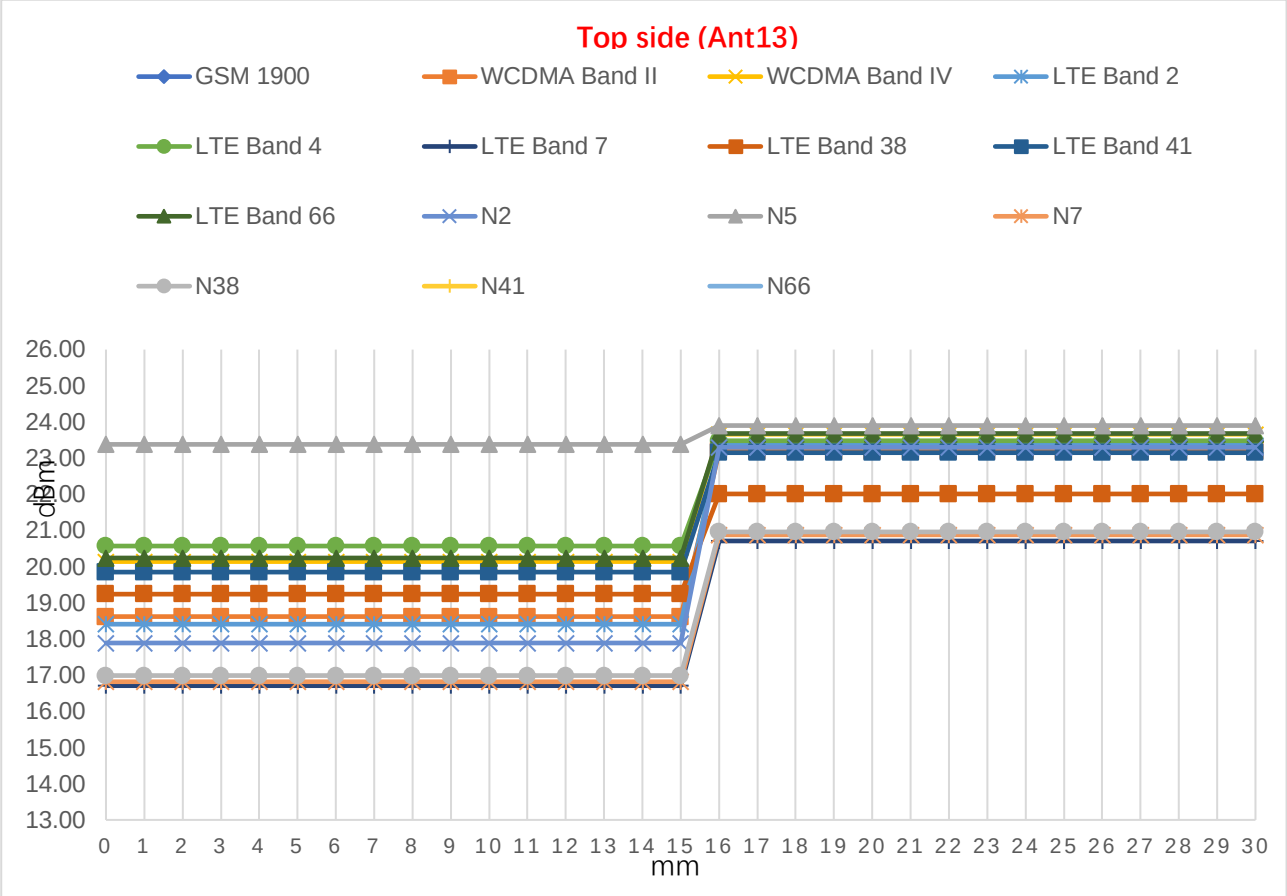










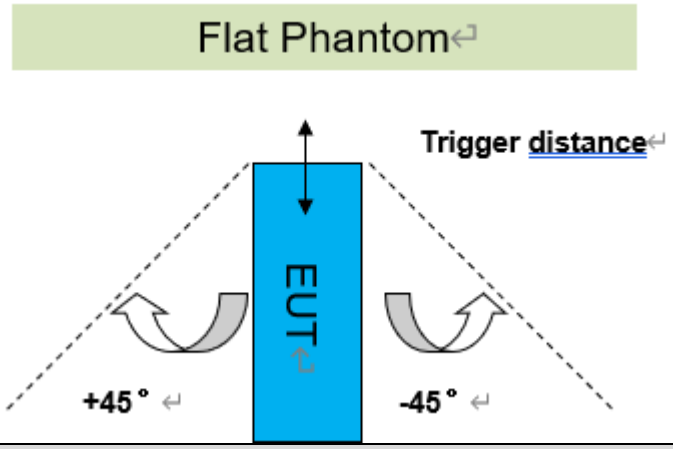


Proximity sensor coverage

If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user, but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and “along the direction of maximum antenna and sensor offset”.
The proximity sensor and main antenna use same metallic electrode, so there is no spatial offset.

Device tilt angle influences on proximity sensor triggering

The influence of device tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom.
Rotating the tablet around the edge next to the phantom in ≤ 10° increments until the tablet is ± 45° 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 Per KDB616217§6.2	Minimum trigger distance at which power reduction was maintained over ±45°	Power Reduction Status									
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
Ant 11: LTE B2/4/7/38/41/66 NR n2/7/38/41/66/77/78	Left Side 16mm	Left Side 16mm	on	on	on	on	on	on	on	on	on	on	on
Ant 12: NR n77/78	Left Side 16mm	Left Side 16mm	on	on	on	on	on	on	on	on	on	on	on
Ant 13:NR GSM: 1900 WCDMA: B2/4 LTE B2/4/7/38/41/66 NR n2/5/7/38/41/66	Top Side 15mm	Top Side 15mm	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 MΩ+ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate			Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose		
HSL5GHz is composed of the following ingredients: (Manufactured by SPEAG) Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 2： Recipe of Tissue Simulate Liquid

6.1.2 Measurement for Tissue Simulate Liquid

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

The temperature variation of the Tissue Simulate Liquids was 22±2°C.

Measurement for Tissue Simulate Liquid									
Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue (±5%)		Deviation (Within ±5%)		Liquid Temp. (℃)	Test Date
		ε_r	σ(S/m)	ε_r	σ(S/m)	ε_r	σ(S/m)		
750 Head	750	42.572	0.857	41.90	0.89	1.60%	-3.71%	22.1	2025/1/12
750 Head	750	41.649	0.895	41.90	0.89	-0.60%	0.56%	22.0	2025/1/16
835 Head	835	41.907	0.897	41.50	0.90	0.98%	-0.33%	22.2	2025/1/10
835 Head	835	41.140	0.923	41.50	0.90	-0.87%	2.56%	21.9	2025/1/13
835 Head	835	40.935	0.892	41.50	0.90	-1.36%	-0.85%	22.2	2025/1/17
1750 Head	1750	40.413	1.312	40.10	1.37	0.78%	-4.23%	22.2	2025/1/9
1750 Head	1750	40.179	1.332	40.10	1.37	0.20%	-2.77%	22.4	2025/1/14
1750 Head	1750	40.777	1.345	40.10	1.37	1.69%	-1.81%	22.3	2025/1/18
1950 Head	1950	39.609	1.353	40.00	1.40	-0.98%	-3.36%	22.2	2025/1/8
1950 Head	1950	40.609	1.429	40.00	1.40	1.52%	2.04%	22.1	2025/1/11
1950 Head	1950	40.566	1.424	40.00	1.40	1.42%	1.71%	22.4	2025/1/15
2450 Head	2450	39.780	1.809	39.20	1.80	1.48%	0.50%	22.2	2025/1/20
2600 Head	2600	39.910	1.950	39.00	1.96	2.33%	-0.51%	22.5	2025/1/8
2600 Head	2600	40.030	1.969	39.00	1.96	2.64%	0.46%	21.9	2025/1/10
2600 Head	2600	40.030	1.957	39.00	1.96	2.64%	-0.15%	22.1	2025/1/19
2600 Head	2600	39.920	1.963	39.00	1.96	2.36%	0.15%	22.2	2025/1/20
3400 Head	3400	37.848	2.768	38.00	2.81	-0.40%	-1.49%	22.1	2025/1/11
3400 Head	3400	38.102	2.725	38.00	2.81	0.27%	-3.02%	22.4	2025/1/21
3500 Head	3500	37.475	2.877	37.90	2.91	-1.12%	-1.13%	22.2	2025/1/12
3500 Head	3500	37.729	2.894	37.90	2.91	-0.45%	-0.55%	22.4	2025/1/22
3700 Head	3700	36.759	3.068	37.70	3.12	-2.50%	-1.67%	22.0	2025/1/13
3700 Head	3700	37.013	3.086	37.70	3.12	-1.82%	-1.09%	22.3	2025/1/23
3900 Head	3900	36.049	3.281	37.50	3.32	-3.87%	-1.17%	22.2	2025/1/14
4100 Head	4100	35.498	3.466	37.20	3.53	-4.58%	-1.81%	22.3	2025/1/15
5250 Head	5250	36.415	4.679	35.90	4.71	1.43%	-0.66%	22.1	2025/1/17
5600 Head	5600	36.015	5.012	35.50	5.07	1.45%	-1.14%	22.1	2025/1/17
5750 Head	5750	35.675	5.276	35.40	5.22	0.78%	1.07%	22.0	2025/1/18

(for original report SZCR241200494509)

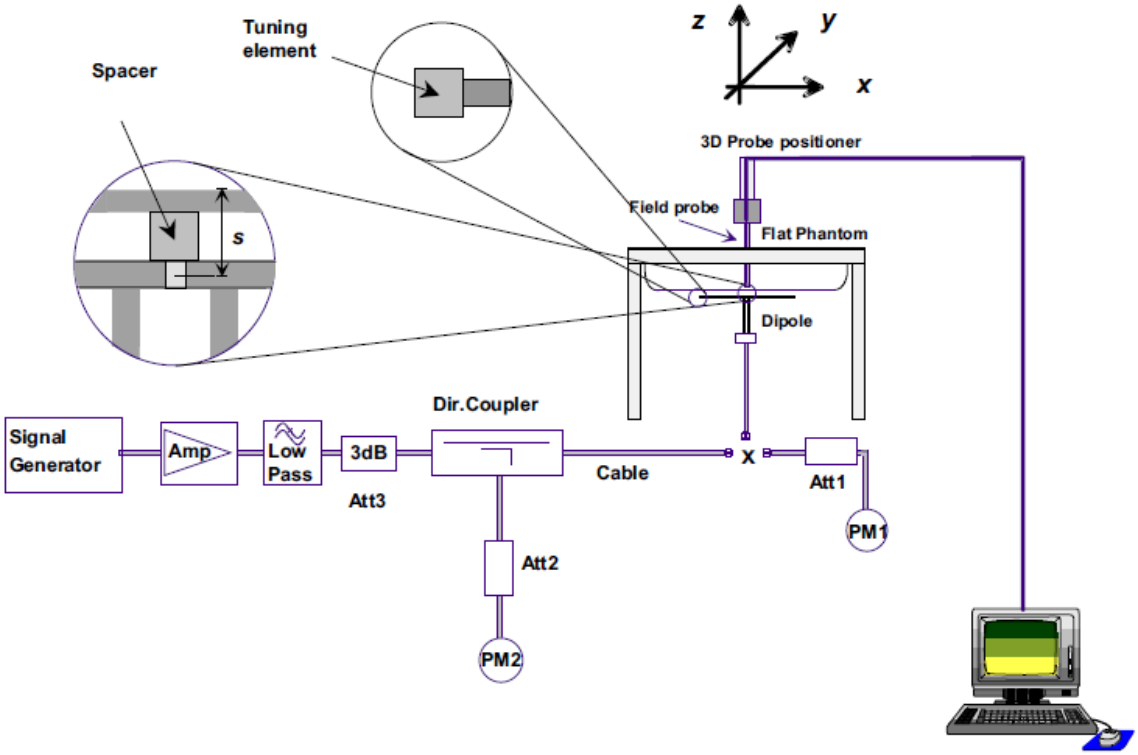
Measurement for Tissue Simulate Liquid									
Tissue Type	Measured Frequency（MHz）	Measured Tissue		Target Tissue (±5%)		Deviation (Within ±5%)		Liquid Temp. (℃)	Test Date
		ε_r	σ(S/m)	ε_r	σ(S/m)	ε_r	σ(S/m)		
750 Head	750	42.476	0.853	41.90	0.89	1.37%	-4.21%	22.1	2025/2/12
835 Head	835	41.780	0.891	41.50	0.90	0.67%	-1.03%	22.0	2025/2/8
1750 Head	1750	40.336	1.305	40.10	1.37	0.59%	-4.77%	22.2	2025/2/10
1950 Head	1950	39.617	1.394	40.00	1.40	-0.96%	-0.46%	22.3	2025/2/11
2450 Head	2450	39.767	1.795	39.20	1.80	1.45%	-0.28%	22.2	2025/2/9
2600 Head	2600	38.450	1.910	39.00	1.96	-1.41%	-2.56%	22.5	2025/2/14
3700 Head	3700	36.916	3.087	37.70	3.12	-2.08%	-1.07%	22.1	2025/2/10
3900 Head	3900	36.206	3.301	37.50	3.32	-3.45%	-0.57%	22.1	2025/2/10
5250 Head	5250	36.527	4.700	35.90	4.71	1.75%	-0.22%	22.3	2025/2/11
5750 Head	5750	35.787	5.299	35.40	5.22	1.09%	1.52%	22.3	2025/2/11

(for new report SZCR250100029101)

Table 3： Measurement result of Tissue electric parameters

6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 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.

6.2.2 Summary System Check Result(s)

SAR System Validation Result(s)											
Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (℃)	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	1.93	1.29	7.72	5.16	8.37	5.53	-7.77%	-6.69%	22.1	2025/1/12
D750V3	Head	2.04	1.36	8.16	5.44	8.37	5.53	-2.51%	-1.63%	22.0	2025/1/16
D835V2	Head	2.51	1.67	10.04	6.68	9.53	6.29	5.35%	6.20%	22.2	2025/1/10
D835V2	Head	2.50	1.66	10.00	6.64	9.53	6.29	4.93%	5.56%	21.9	2025/1/13
D835V2	Head	2.56	1.69	10.24	6.76	9.53	6.29	7.45%	7.47%	22.2	2025/1/17
D1750V2	Head	8.91	4.82	35.64	19.28	36.60	19.30	-2.62%	-0.10%	22.2	2025/1/9
D1750V2	Head	9.19	4.96	36.76	19.84	36.60	19.30	0.44%	2.80%	22.4	2025/1/14
D1750V2	Head	9.46	5.12	37.84	20.48	36.60	19.30	3.39%	6.11%	22.3	2025/1/18
D1950V3	Head	10.30	5.39	41.20	21.56	40.50	20.80	1.73%	3.65%	22.2	2025/1/8
D1950V3	Head	10.30	5.35	41.20	21.40	40.50	20.80	1.73%	2.88%	22.1	2025/1/11
D1950V3	Head	10.30	5.43	41.20	21.72	40.50	20.80	1.73%	4.42%	22.4	2025/1/15
D2450V2	Head	14.00	6.60	56.00	26.40	52.20	24.30	7.28%	8.64%	22.2	2025/1/20
D2600V2	Head	15.50	7.06	62.00	28.24	57.70	25.80	7.45%	9.46%	22.5	2025/1/8
D2600V2	Head	14.10	6.24	56.40	24.96	57.70	25.80	-2.25%	-3.26%	21.9	2025/1/10
D2600V2	Head	14.10	6.38	56.40	25.52	57.70	25.80	-2.25%	-1.09%	22.1	2025/1/19
D2600V2	Head	15.20	6.92	60.80	27.68	57.70	25.80	5.37%	7.29%	22.2	2025/1/20
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. (℃)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
D3500V2	Head(3.4GHz)	7.03	2.74	70.30	27.40	66.50	26.10	5.71%	4.98%	22.1	2025/1/11
	Head(3.4GHz)	7.21	2.81	72.10	28.10	66.50	26.10	8.42%	7.66%	22.4	2025/1/21
	Head(3.5GHz)	6.52	2.52	65.20	25.20	65.80	25.70	-0.91%	-1.95%	22.2	2025/1/12
	Head(3.5GHz)	6.72	2.60	67.20	26.00	65.80	25.70	2.13%	1.17%	22.4	2025/1/22
D3700V2	Head(3.7GHz)	6.68	2.52	66.80	25.20	66.10	24.70	1.06%	2.02%	22.0	2025/1/13
	Head(3.7GHz)	6.87	2.56	68.70	25.60	66.10	24.70	3.93%	3.64%	22.3	2025/1/23
D3900V2	Head(3.9GHz)	6.61	2.36	66.10	23.60	66.70	23.80	-0.90%	-0.84%	22.2	2025/1/14
	Head(4.1GHz)	6.90	2.42	69.00	24.20	68.10	24.00	1.32%	0.83%	22.3	2025/1/15
D5GHzV2	Head(5.25GHz)	7.55	2.17	75.50	21.70	77.30	22.10	-2.33%	-1.81%	22.1	2025/1/17
	Head(5.6GHz)	7.95	2.26	79.50	22.60	81.30	23.10	-2.21%	-2.16%	22.1	2025/1/17
	Head(5.75GHz)	7.30	2.07	73.00	20.70	77.10	21.30	-5.32%	-2.82%	22.0	2025/1/18

(for original report SZCR241200494509)

SAR System Validation Result(s)											
Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (℃)	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	1.91	1.28	7.64	5.12	8.37	5.53	-8.72%	-7.41%	22.1	2025/2/12
D835V2	Head	2.59	1.71	10.36	6.84	9.53	6.29	8.71%	8.74%	22.0	2025/2/8
D1750V2	Head	9.61	5.18	38.44	20.72	36.60	19.30	5.03%	7.36%	22.2	2025/2/10
D1950V3	Head	9.62	5.07	38.48	20.28	40.50	20.80	-4.99%	-2.50%	22.3	2025/2/11
D2450V2	Head	13.90	6.57	55.60	26.28	52.20	24.30	6.51%	8.15%	22.2	2025/2/9
D2600V2	Head	14.70	6.80	58.80	27.20	57.70	25.80	1.91%	5.43%	22.5	2025/2/14
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. (℃)	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)		
D3700V2	Head(3.7GHz)	6.94	2.60	69.40	26.00	66.10	24.70	4.99%	5.26%	22.1	2025/2/10
D3900V2	Head(3.9GHz)	7.08	2.53	70.80	25.30	66.70	23.80	6.15%	6.30%	22.1	2025/2/10
D5GHzV2	Head(5.25GHz)	8.39	2.37	83.90	23.70	77.30	22.10	8.54%	7.24%	22.3	2025/2/11
	Head(5.75GHz)	7.43	2.12	74.30	21.20	77.10	21.30	-3.63%	-0.47%	22.3	2025/2/11

(for new report SZCR250100029101)

Table 4： SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A

7 Test Configuration

7.1 3G SAR Test Reduction Procedure

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as “otherwise” in the applicable procedures; SAR measurement is required for the secondary mode.

7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using Radio Communication Analyzer, the power lever is set to “5”and “0” in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

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

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

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

7.2.2 WCDMA Test Configuration

1）. Output Power Verification

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

2）. Head SAR

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

3）. Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreaing 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 ≤ ¼ 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 (βc, βd), and HS-DPCCH power offset parameters (ΔACK, ΔNACK, ΔCQI) 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	βc	Bd	βd(SF)	βc/βd	βhs	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: △ACK, △NACK and △CQI= 8 Ahs = βhs/βc=30/15 βhs=30/15*βc

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, △ACK and △NACK= 8 (Ahs=30/15) with βhs=30/15*βc,and △CQI= 7 (Ahs=24/15) with βhs=24/15*βc.

Note3: CM=1 forβc/βd =12/15, βhs/βc=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.

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

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

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

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

Table 6： HSDPA UE category

b) HSUPA

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs}(1)	β_{ec}	β_{ed}	β_{ec} (SF)	β_{ed} (code)	CM(2) (dB)	MPR (dB)	AG(4) Index	E-TFCI
1	11/15(3)	15/15(3)	64	11/15(3)	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1}:47/15 β_{ed2}:47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15(4)	15/15(4)	64	15/15(4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ ACK, Δ NACK and Δ CQI = 8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference
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 $\beta_d = 15/15$
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 $\beta_d = 15/15$
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
Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Table 7： Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Speading 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&2SF4	11484	5.76
	4	4	2		20000	2.00
7 (No DPDCH)	4	8	2	2SF2&2SF4	22996	?
	4	4	10		20000	?

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

Table 8： HSUPA UE category

c) DC-HSDPA

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

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

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

A summary of these settings are illustrated below:

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

Table E.5.0: Levels for HSDPA connection setup

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

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

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

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

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

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

Note:

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

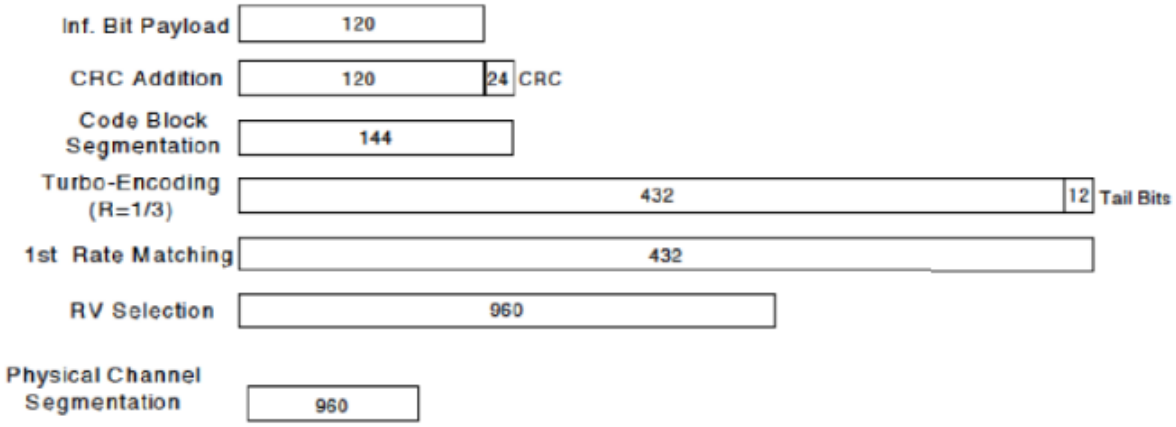


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (1)	CM(dB)(2)	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

Note 1: Δ ACK, Δ NACK and Δ CQI = 8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$

Note 2: CM=1 for β_c/β_d= 12/15, β_{hs}/β_c = 24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 11/15 and β_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.

d) HSPA+

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

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

Sub-test	β_c (Note3)	β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed}1: 30/15 β_{ed}2: 30/15	β_{ed}3: 24/15 β_{ed}4: 24/15	3.5	2.5	14	105	105

Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_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 β_d = 0 by default.

Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.

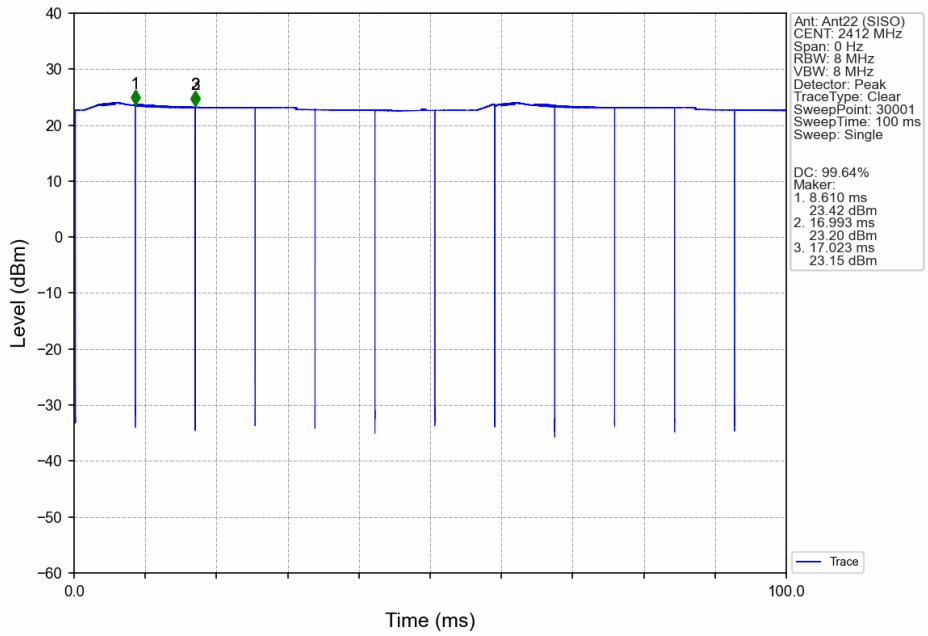
7.2.3 WIFI Test Configuration

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

7.2.3.1 Duty cycle

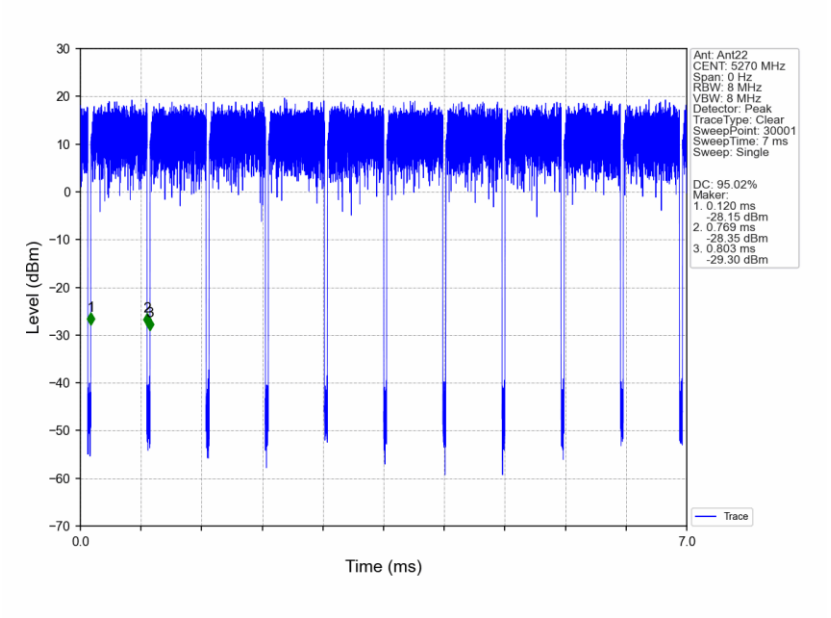
1) Wi-Fi 2.4GHz 802.11b:

Duty cycle=99.64%



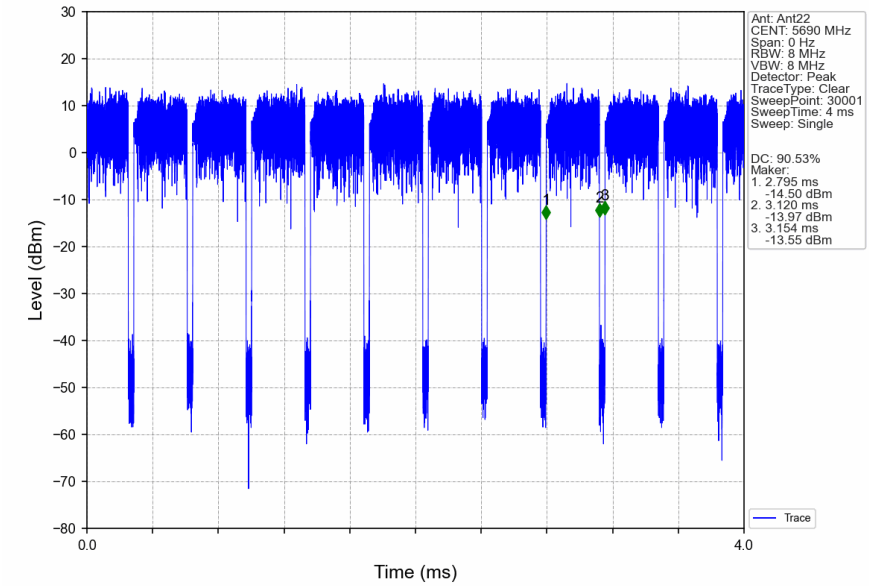
2) Wi-Fi 5GHz 802.11n40:

Duty cycle=96.02%



3) Wi-Fi 5GHz 802.11ac80:

Duty cycle=90.53 %



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 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:

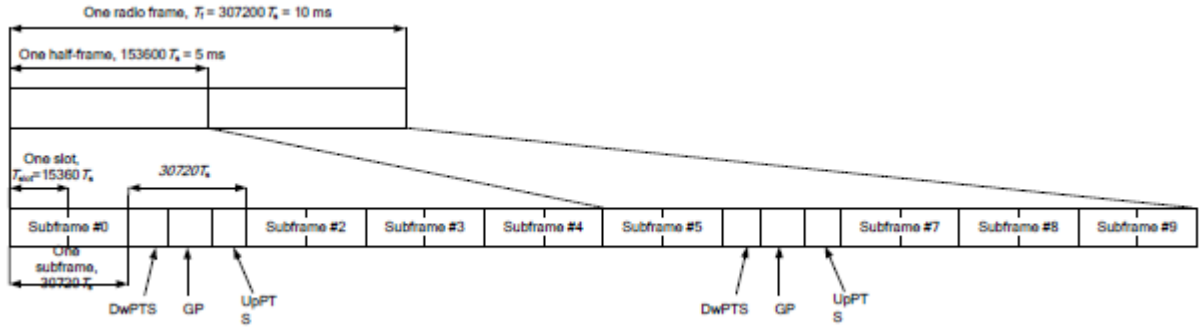


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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	

	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 > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other channel bandwidth standalone SAR test requirements

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

F) LTE CA additional specification

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

a) Intra-band carrier aggregation requirements for uplink.

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

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

Downlink LTE CA
CA_2C
CA_4C
CA_5B
CA_7C
CA_38C
CA_41C
CA_66C
CA_7B
CA_66B
CA_2A-2A
CA_4A-4A
CA_5A-5A
CA_7A-7A
CA_41A-41A
CA_66A-66A
CA_2A-4A
CA_2A-5A
CA_2A-7A
CA_2A-26A
CA_2A-38A
CA_2A-66A
CA_4A-5A
CA_4A-7A
CA_5A-7A
CA_5A-38A
CA_5A-41A
CA_5A-66A
CA_7A-26A
CA_7A-66A
CA_26A-38A
CA_26A-41A
CA_26A-41A
CA_38A-66A
Uplink LTE CA
CA_2C
CA_7C
CA_41C
CA_66C

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

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

- UL PCC configuration is determined by the required test channel

- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.

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

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

- PCC is configured according to the highest standalone SAR configuration tested.

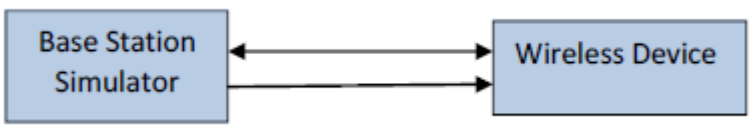
- SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC

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

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

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

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



DL CA Power Measurement Setup

c) Inter-band carrier aggregation requirements for uplink.

For Inter band Uplink CA SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative “max + max” multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink CA SAR from standalone SAR test results of each LTE component band and the conservative “max + max” multi-Tx method to combine the scaled SAR value from each Inter band Uplink CA component band as the inter-band Uplink CA SAR.
The Inter band Uplink CA as below table:

LTE Band/Antenna		B4			B5		B7		
		Ant13	*Ant31*	*Ant11*	*Ant13*	*Ant31*	*Ant13*	*Ant31*	*Ant11*
B2	*Ant13*			√					√
	Ant31			√					√
	Ant11								
B4	*Ant13*								√
	Ant31				√				√
	Ant11				√				
B5	*Ant13*							√	√
	Ant31								

7.2.5 NR Band Test Configuration

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

Band/Antenna		LTE Band 2			LTE Band 4			LTE Band 5		LTE Band 7			LTE Band 26		LTE Band 38			LTE Band 41			LTE Band 66		
		Ant13	*Ant31*	*Ant11*	*Ant13*	*Ant31*	*Ant11*	*Ant13*	*Ant31*	*Ant13*	*Ant31*	*Ant11*	*Ant13*	*Ant31*	*Ant13*	*Ant31*	*Ant11*	*Ant13*	*Ant31*	*Ant11*	*Ant13*	*Ant31*	*Ant11*
n2	*Ant13*																						
	Ant31				√																√		
	Ant11				√					√	√										√		
n5	*Ant13*										√	√											
	Ant31																						
n7	*Ant13*																						
	Ant31																						
	Ant11				√	√		√	√												√	√	
n26	*Ant13*										√	√											
	Ant31																						
n38	*Ant13*																						
	Ant31																						
	Ant11	√	√		√	√		√	√												√	√	
n41	*Ant13*																						
	Ant31																						
	Ant11	√	√		√	√							√	√							√	√	
n66	*Ant13*																						
	Ant31																						
	Ant11	√	√					√	√	√	√												
n77	*Ant11*									√	√												
	Ant12									√	√												
	Ant21									√	√												
	Ant23									√	√												
n78	*Ant11*	√	√		√	√		√	√	√	√		√	√	√	√		√	√		√	√	
	Ant12	√	√		√	√		√	√	√	√		√	√	√	√		√	√		√	√	
	Ant21	√	√		√	√		√	√	√	√		√	√	√	√		√	√		√	√	
	Ant23	√	√		√	√		√	√	√	√		√	√	√	√		√	√		√	√	

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

Band			n2	n5	n7	n26	n38	n41	n66	n77	n78
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Duty Cycle			100%	100%	100%	100%	100%	100%	100%	100%	100%

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

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

a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.

b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.

c. SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.

d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure

e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 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.

f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.

g. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device

4. MPR

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

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

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

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

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

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

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

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

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

7. For EN-DC SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative “max + max” multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink EN-DC SAR from standalone SAR test results of each LTE and NR EN-DC component band and the conservative “max + max” multi-Tx method to combine the scaled SAR value from each EN-DC component band as the inter-band Uplink EN-DC SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report.

8. When the reported SAR for and EN DC configuration is greater than 1.2 W/kg, EN DC SAR is also required for other NR based test channels.

9. EN DC SAR is also required for standalone NR configurations greater than 1.2 W/kg when scaled to the EN DC power level.

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8 Test Result

8.1 Measurement of RF Conducted Power

The detailed conducted power can be referred to Appendix E.

Note:

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

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

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

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

3）. When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used.

4）. According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.

5）. In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.

6）. Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.

7）. Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A.Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.

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

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

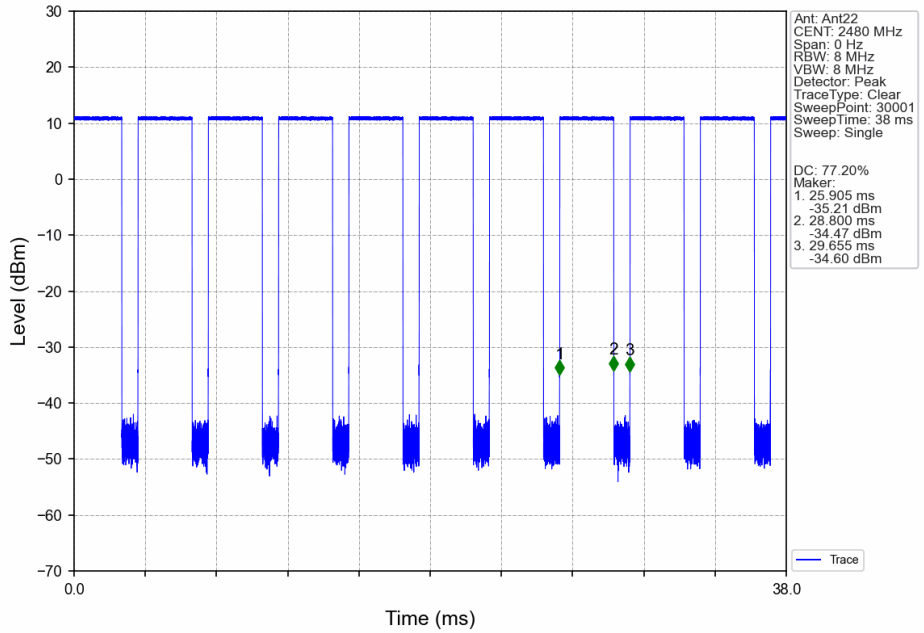
8）. For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the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

channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.

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

9）. The conducted power of BT is measured with RMS detector.
BT Duty Cycle=77.20%



8.2 Measurement of SAR Data

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2) Per KDB 447498 D04, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

- ≤ 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is ≤ 100MHz.
- ≤ 0.6 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.
- ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.

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

WiFi 2.4G:

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

WiFi 5G:

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

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

8.2.1 SAR Result of GSM850

GSM850 SAR Test Record											
Ant 13 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.(℃)**
Head Test Data DSI 2											
Left cheek	GPRS 1TS	190/836.6	1:8.3	0.366	0.238	-0.08	29.24	30.70	1.400	0.512	22.3
Left tilted	GPRS 1TS	190/836.6	1:8.3	0.348	0.215	-0.13	29.24	30.70	1.400	0.487	22.3
Right cheek	GPRS 1TS	190/836.6	1:8.3	0.463	0.287	0.06	29.24	30.70	1.400	**0.648**	22.3
Right tilted	GPRS 1TS	190/836.6	1:8.3	0.445	0.241	0.07	29.24	30.70	1.400	0.623	22.3
Body worn Test data(Separate 15mm) DSI 4											
Front side	GPRS 2TS	190/836.6	1:4.15	0.164	0.108	-0.04	30.70	31.70	1.259	0.206	22.2
Back side	GPRS 2TS	190/836.6	1:4.15	0.239	0.176	-0.03	30.70	31.70	1.259	**0.301**	22.2
Hotspot Test data(Separate 10mm) DSI 10											
Front side	GPRS 1TS	190/836.6	1:8.3	0.193	0.122	0.02	31.79	33.50	1.483	0.286	22.2
Back side	GPRS 1TS	190/836.6	1:8.3	0.211	0.139	0.15	31.79	33.50	1.483	**0.313**	22.2
Left side	GPRS 1TS	190/836.6	1:8.3	0.058	0.035	0.09	31.79	33.50	1.483	0.086	22.2
Top side	GPRS 1TS	190/836.6	1:8.3	0.202	0.126	0.13	31.79	33.50	1.483	0.299	22.2
Ant 31 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.(℃)**
Head Test Data DSI 2											
Left cheek	GPRS 2TS	190/836.6	1:4.15	0.210	0.145	-0.11	30.67	31.70	1.268	0.266	22.3
Left tilted	GPRS 2TS	190/836.6	1:4.15	0.119	0.086	-0.03	30.67	31.70	1.268	0.151	22.3
Right cheek	GPRS 2TS	190/836.6	1:4.15	0.180	0.128	-0.02	30.67	31.70	1.268	0.228	22.3
Right tilted	GPRS 2TS	190/836.6	1:4.15	0.100	0.072	-0.04	30.67	31.70	1.268	0.127	22.3
Body worn Test data(Separate 15mm) DSI 4											
Front side	GPRS 2TS	190/836.6	1:4.15	0.161	0.113	-0.16	30.67	31.70	1.268	0.204	22.2
Back side	GPRS 2TS	190/836.6	1:4.15	0.167	0.076	0.07	30.67	31.70	1.268	0.212	22.2
Hotspot Test data(Separate 10mm) DSI 10											
Front side	GPRS 2TS	190/836.6	1:4.15	0.210	0.124	-0.17	30.67	31.70	1.268	0.266	22.2
Back side	GPRS 2TS	190/836.6	1:4.15	0.226	0.143	-0.06	30.67	31.70	1.268	0.286	22.2
Left side	GPRS 2TS	190/836.6	1:4.15	0.204	0.135	0.07	30.67	31.70	1.268	0.259	22.2
Right side	GPRS 2TS	190/836.6	1:4.15	0.112	0.072	-0.08	30.67	31.70	1.268	0.142	22.2
Bottom side	GPRS 2TS	190/836.6	1:4.15	0.232	0.131	-0.01	30.67	31.70	1.268	0.294	22.2

(for original report SZCR241200494509)

GSM850 SAR Test Record											
Ant 13 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.(℃)
Head Test Data DSI 2											
Right cheek	GPRS 1TS	190/836.6	1:8.3	0.461	0.274	0.02	29.24	30.70	1.400	**0.645**	22.0
Body worn Test data(Separate 15mm) DSI 4											
Back side	GPRS 2TS	190/836.6	1:4.15	0.199	0.149	0.06	30.70	31.70	1.259	**0.251**	22.0
Hotspot Test data(Separate 10mm) DSI 10											
Back side	GPRS 1TS	190/836.6	1:8.3	0.194	0.142	0.01	31.79	33.50	1.483	**0.288**	22.0

(for new report SZCR250100029101)

8.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record											
Ant 13 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.(℃)**
Head Test Data DSI 2											
Left cheek	GPRS 2TS	661/1880	1:4.15	0.270	0.151	-0.17	22.91	24.50	1.442	0.389	22.3
Left tilted	GPRS 2TS	661/1880	1:4.15	0.337	0.183	0.06	22.91	24.50	1.442	0.486	22.3
Right cheek	GPRS 2TS	661/1880	1:4.15	0.481	0.232	-0.08	22.91	24.50	1.442	0.694	22.3
Right tilted	GPRS 2TS	661/1880	1:4.15	0.591	0.263	0.12	22.91	24.50	1.442	**0.852**	22.3
Right tilted	GPRS 2TS	512/1850.2	1:4.15	0.559	0.279	0.15	23.11	24.50	1.377	0.770	22.3
Right tilted	GPRS 2TS	810/1909.8	1:4.15	0.544	0.278	0.05	22.61	24.50	1.545	0.841	22.3
Body worn Test data(Separate 15mm) DSI 4											
Front side	GPRS 2TS	661/1880	1:4.15	0.147	0.083	0.13	27.48	29.00	1.419	0.209	22.3
Back side	GPRS 2TS	661/1880	1:4.15	0.172	0.100	0.09	27.48	29.00	1.419	**0.244**	22.3
Hotspot Test data(Separate 10mm) DSI 10											
Front side	GPRS 2TS	661/1880	1:4.15	0.144	0.076	-0.07	24.44	25.90	1.400	0.202	22.3
Back side	GPRS 2TS	661/1880	1:4.15	0.243	0.122	0.06	24.44	25.90	1.400	0.340	22.3
Left side	GPRS 2TS	661/1880	1:4.15	0.047	0.027	-0.05	24.44	25.90	1.400	0.066	22.3
Top side	GPRS 2TS	661/1880	1:4.15	0.339	0.164	-0.14	24.44	25.90	1.400	0.474	22.3
Ant 31 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.(℃)**
Head Test Data DSI 2											
Left cheek	GPRS 3TS	661/1880	1:2.77	0.131	0.082	0.13	27.61	28.70	1.285	0.168	22.3
Left tilted	GPRS 3TS	661/1880	1:2.77	0.074	0.042	0.00	27.61	28.70	1.285	0.095	22.3
Right cheek	GPRS 3TS	661/1880	1:2.77	0.108	0.067	-0.18	27.61	28.70	1.285	0.139	22.3
Right tilted	GPRS 3TS	661/1880	1:2.77	0.101	0.056	-0.14	27.61	28.70	1.285	0.130	22.3
Body worn Test data(Separate 15mm) DSI 4											
Front side	GPRS 2TS	661/1880	1:4.15	0.133	0.080	-0.02	26.49	27.10	1.151	0.153	22.3
Back side	GPRS 2TS	661/1880	1:4.15	0.200	0.121	-0.07	26.49	27.10	1.151	0.230	22.3
Hotspot Test data(Separate 10mm) DSI 10											
Front side	GPRS 2TS	661/1880	1:4.15	0.200	0.116	-0.02	25.57	26.70	1.297	0.259	22.3
Back side	GPRS 2TS	661/1880	1:4.15	0.334	0.193	0.07	25.57	26.70	1.297	0.433	22.3
Left side	GPRS 2TS	661/1880	1:4.15	0.055	0.032	0.09	25.57	26.70	1.297	0.071	22.3
Right side	GPRS 2TS	661/1880	1:4.15	0.107	0.057	-0.13	25.57	26.70	1.297	0.139	22.3
Bottom side	GPRS 2TS	661/1880	1:4.15	0.391	0.226	0.07	25.57	26.70	1.297	**0.507**	22.3

(for original report SZCR241200494509)

GSM1900 SAR Test Record											
Ant 13 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.(℃)**
Head Test Data DSI 2											
Right tilted	GPRS 2TS	661/1880	1:4.15	0.564	0.256	0.03	22.91	24.50	1.442	**0.813**	22.3
Body worn Test data(Separate 15mm) DSI 4											
Back side	GPRS 2TS	661/1880	1:4.15	0.143	0.084	0.11	27.48	29.00	1.419	**0.203**	22.3
Ant 31 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.(℃)**
Hotspot Test data(Separate 10mm) DSI 10											
Bottom side	GPRS 2TS	661/1880	1:4.15	0.368	0.217	0.04	25.57	26.70	1.297	**0.477**	22.3

(for new report SZCR250100029101)

8.2.3 SAR Result of WCDMA Band II

WB2 SAR Test Record											
Ant 13 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.(℃)**
Head Test Data DSI 2											
Left cheek	RMC	9400/1880	1:1	0.268	0.147	-0.13	15.15	16.50	1.365	0.366	22.2
Left tilted	RMC	9400/1880	1:1	0.341	0.177	0.08	15.15	16.50	1.365	0.465	22.2
Right cheek	RMC	9400/1880	1:1	0.423	0.212	-0.14	15.15	16.50	1.365	0.577	22.2
Right tilted	RMC	9400/1880	1:1	0.508	0.225	-0.12	15.15	16.50	1.365	**0.693**	22.2
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	9400/1880	1:1	0.297	0.168	-0.06	23.19	24.50	1.352	0.402	22.2
Back side	RMC	9400/1880	1:1	0.373	0.218	0.01	23.19	24.50	1.352	**0.504**	22.2
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	9400/1880	1:1	0.147	0.077	0.18	17.15	18.50	1.365	0.201	22.2
Back side	RMC	9400/1880	1:1	0.220	0.119	0.04	17.15	18.50	1.365	0.300	22.2
Left side	RMC	9400/1880	1:1	0.033	0.016	0.17	17.15	18.50	1.365	0.045	22.2
Top side	RMC	9400/1880	1:1	0.289	0.147	0.03	17.15	18.50	1.365	**0.394**	22.2
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 10-g SAR(W/kg)**	**Liquid Temp.**
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor off DSI 4											
Top side 14mm	RMC	9400/1880	1:1	0.872	0.455	0.03	23.19	24.50	1.352	0.615	22.3
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5											
Top side	RMC	9400/1880	1:1	4.270	1.600	0.09	18.62	20.00	1.374	2.198	22.3
Top side	RMC	9262/1852.4	1:1	4.110	1.490	0.02	18.47	20.00	1.422	2.119	22.3
Top side	RMC	9538/1907.6	1:1	4.320	1.630	0.09	18.45	20.00	1.429	**2.329**	22.3
Ant 31 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.(℃)**
Head Test Data DSI 2											
Left cheek	RMC	9400/1880	1:1	0.128	0.080	-0.03	24.02	24.50	1.117	0.143	22.2
Left tilted	RMC	9400/1880	1:1	0.063	0.036	0.15	24.02	24.50	1.117	0.070	22.2
Right cheek	RMC	9400/1880	1:1	0.109	0.067	0.07	24.02	24.50	1.117	0.122	22.2
Right tilted	RMC	9400/1880	1:1	0.088	0.051	-0.18	24.02	24.50	1.117	0.098	22.2
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	9400/1880	1:1	0.129	0.079	-0.13	20.49	21.00	1.125	0.145	22.2
Back side	RMC	9400/1880	1:1	0.221	0.134	0.09	20.49	21.00	1.125	0.249	22.2
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	9400/1880	1:1	0.172	0.101	-0.06	19.00	19.50	1.122	0.193	22.2
Back side	RMC	9400/1880	1:1	0.287	0.168	0.10	19.00	19.50	1.122	0.322	22.2
Left side	RMC	9400/1880	1:1	0.006	0.003	-0.14	19.00	19.50	1.122	0.007	22.2
Right side	RMC	9400/1880	1:1	0.111	0.059	-0.02	19.00	19.50	1.122	0.125	22.2
Bottom side	RMC	9400/1880	1:1	0.340	0.179	0.19	19.00	19.50	1.122	0.381	22.2

(for original report SZCR241200494509)

WB2 SAR Test Record											
Ant 13 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.(℃)**
Head Test Data DSI 2											
Right tilted	RMC	9400/1880	1:1	0.496	0.220	0.02	15.15	16.50	1.365	**0.677**	22.3
Body worn Test data(Separate 15mm) DSI 4											
Back side	RMC	9400/1880	1:1	0.371	0.215	0.06	23.19	24.50	1.352	**0.502**	22.3
Hotspot Test data(Separate 10mm) DSI 10											
Top side	RMC	9400/1880	1:1	0.283	0.146	0.07	17.15	18.50	1.365	**0.386**	22.3
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 10-g SAR(W/kg)**	**Liquid Temp.**
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5											
Top side	RMC	9538/1907.6	1:1	3.550	1.360	0.03	18.45	20.00	1.429	**1.943**	22.3

(for new report SZCR250100029101)

8.2.4 SAR Result of WCDMA Band IV

WB4 SAR Test Record											
Ant 13 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.(℃)
Head Test Data DSI 2											
Left cheek	RMC	1412/1732.4	1:1	0.324	0.185	0.08	15.97	17.50	1.422	0.461	22.2
Left tilted	RMC	1412/1732.4	1:1	0.400	0.215	-0.11	15.97	17.50	1.422	0.569	22.2
Right cheek	RMC	1412/1732.4	1:1	0.548	0.279	0.02	15.97	17.50	1.422	0.779	22.2
Right tilted	RMC	1412/1732.4	1:1	0.655	0.296	0.06	15.97	17.50	1.422	0.932	22.2
Right tilted	RMC	1312/1712.4	1:1	0.631	0.284	0.03	16.22	17.50	1.343	0.847	22.2
Right tilted	RMC	1513/1752.6	1:1	0.721	0.325	0.05	16.14	17.50	1.368	**0.986**	22.2
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	1412/1732.4	1:1	0.318	0.192	-0.07	23.44	25.00	1.432	0.455	22.2
Back side	RMC	1412/1732.4	1:1	0.345	0.211	0.08	23.44	25.00	1.432	**0.494**	22.2
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	1412/1732.4	1:1	0.219	0.115	0.09	18.51	20.00	1.409	0.309	22.2
Back side	RMC	1412/1732.4	1:1	0.251	0.137	-0.04	18.51	20.00	1.409	0.354	22.2
Left side	RMC	1412/1732.4	1:1	0.063	0.035	-0.12	18.51	20.00	1.409	0.089	22.2
Top side	RMC	1412/1732.4	1:1	0.337	0.175	0.09	18.51	20.00	1.409	**0.475**	22.2
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 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor off DSI 4											
Top side 14mm	RMC	1412/1732.4	1:1	0.306	0.160	-0.17	23.44	25.00	1.432	0.229	22.1
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5											
Top side	RMC	1412/1732.4	1:1	3.130	1.200	0.06	19.88	21.50	1.452	**1.743**	22.1
Ant 31 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.(℃)
Head Test Data DSI 2											
Left cheek	RMC	1412/1732.4	1:1	0.095	0.059	0.17	24.38	25.00	1.153	0.110	22.2
Left tilted	RMC	1412/1732.4	1:1	0.062	0.038	-0.08	24.38	25.00	1.153	0.072	22.2
Right cheek	RMC	1412/1732.4	1:1	0.068	0.042	0.16	24.38	25.00	1.153	0.078	22.2
Right tilted	RMC	1412/1732.4	1:1	0.067	0.041	-0.04	24.38	25.00	1.153	0.077	22.2
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	1412/1732.4	1:1	0.114	0.070	-0.08	21.88	22.50	1.153	0.131	22.2
Back side	RMC	1412/1732.4	1:1	0.207	0.123	-0.07	21.88	22.50	1.153	0.239	22.2
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	1412/1732.4	1:1	0.093	0.054	-0.19	17.98	18.50	1.127	0.105	22.2

Back side	RMC	1412/1732.4	1:1	0.150	0.084	0.05	17.98	18.50	1.127	0.169	22.2
Left side	RMC	1412/1732.4	1:1	0.006	0.003	0.05	17.98	18.50	1.127	0.007	22.2
Right side	RMC	1412/1732.4	1:1	0.012	0.006	0.18	17.98	18.50	1.127	0.014	22.2
Bottom side	RMC	1412/1732.4	1:1	0.198	0.102	0.05	17.98	18.50	1.127	0.223	22.2

(for original report SZCR241200494509)

WB4 SAR Test Record											
Ant 13 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.(℃)**
Head Test Data DSI 2											
Right tilted	RMC	1513/1752.6	1:1	0.708	0.321	0.08	16.14	17.50	1.368	**0.968**	22.2
Body worn Test data(Separate 15mm) DSI 4											
Back side	RMC	1412/1732.4	1:1	0.344	0.207	-0.04	23.44	25.00	1.432	**0.493**	22.2
Hotspot Test data(Separate 10mm) DSI 10											
Top side	RMC	1412/1732.4	1:1	0.317	0.166	0.05	18.51	20.00	1.409	**0.447**	22.2
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 10-g SAR(W/kg)**	**Liquid Temp.**
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5											
Top side	RMC	1412/1732.4	1:1	2.890	1.100	0.07	19.88	21.50	1.452	**1.597**	22.2

(for new report SZCR250100029101)

8.2.5 SAR Result of WCDMA Band V

WB5 SAR Test Record											
Ant 13 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.(℃)
Head Test Data DSI 2											
Left cheek	RMC	4182/836.4	1:1	0.427	0.283	0.05	20.38	21.50	1.294	0.553	22.2
Left tilted	RMC	4182/836.4	1:1	0.405	0.248	-0.12	20.38	21.50	1.294	0.524	22.2
Right cheek	RMC	4182/836.4	1:1	0.476	0.303	0.05	20.38	21.50	1.294	**0.616**	22.2
Right tilted	RMC	4182/836.4	1:1	0.448	0.271	0.08	20.38	21.50	1.294	0.580	22.2
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	4182/836.4	1:1	0.156	0.101	-0.12	23.90	25.00	1.288	0.201	22.2
Back side	RMC	4182/836.4	1:1	0.221	0.165	0.06	23.90	25.00	1.288	**0.285**	22.2
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	4182/836.4	1:1	0.275	0.173	0.11	23.90	25.00	1.288	0.354	22.2
Back side	RMC	4182/836.4	1:1	0.333	0.218	0.02	23.90	25.00	1.288	**0.429**	22.2
Left side	RMC	4182/836.4	1:1	0.108	0.071	0.14	23.90	25.00	1.288	0.139	22.2
Top side	RMC	4182/836.4	1:1	0.305	0.184	-0.04	23.90	25.00	1.288	0.393	22.2
Ant 31 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.(℃)
Head Test Data DSI 2											
Left cheek	RMC	4182/836.4	1:1	0.215	0.150	0.16	23.93	25.00	1.279	0.275	22.2
Left tilted	RMC	4182/836.4	1:1	0.126	0.093	-0.12	23.93	25.00	1.279	0.161	22.2
Right cheek	RMC	4182/836.4	1:1	0.167	0.120	-0.15	23.93	25.00	1.279	0.214	22.2
Right tilted	RMC	4182/836.4	1:1	0.104	0.077	-0.02	23.93	25.00	1.279	0.133	22.2
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	4182/836.4	1:1	0.148	0.107	-0.12	23.93	25.00	1.279	0.189	22.2
Back side	RMC	4182/836.4	1:1	0.183	0.133	0.06	23.93	25.00	1.279	0.234	22.2
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	4182/836.4	1:1	0.140	0.082	-0.16	22.04	23.00	1.247	0.175	22.2
Back side	RMC	4182/836.4	1:1	0.176	0.109	0.09	22.04	23.00	1.247	0.220	22.2
Left side	RMC	4182/836.4	1:1	0.140	0.091	0.18	22.04	23.00	1.247	0.175	22.2
Right side	RMC	4182/836.4	1:1	0.072	0.047	-0.17	22.04	23.00	1.247	0.090	22.2
Bottom side	RMC	4182/836.4	1:1	0.183	0.097	0.18	22.04	23.00	1.247	0.228	22.2

(for original report SZCR241200494509)

WB5 SAR Test Record											
Ant 13 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.(℃)
Head Test Data DSI 2											
Right cheek	RMC	4182/836.4	1:1	0.468	0.290	-0.01	20.38	21.50	1.294	**0.606**	22.0
Body worn Test data(Separate 15mm) DSI 4											
Back side	RMC	4182/836.4	1:1	0.209	0.157	0.07	23.90	25.00	1.288	**0.269**	22.0
Hotspot Test data(Separate 10mm) DSI 10											
Back side	RMC	4182/836.4	1:1	0.292	0.196	0.10	23.90	25.00	1.288	**0.376**	22.0

(for new report SZCR250100029101)

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8.2.6 SAR Result of LTE Band 2

LTE Band 2 SAR Test Record												
Ant 11 Test Record with Inter-band UL CA												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	18700/1860	1:1	0.063	0.030	0.13	18.47	19.60	1.297	0.082	22.4
Left tilted	20	QPSK 1_0	18700/1860	1:1	0.039	0.014	-0.09	18.47	19.60	1.297	0.051	22.4
Right cheek	20	QPSK 1_0	18700/1860	1:1	0.121	0.059	-0.15	18.47	19.60	1.297	0.157	22.4
Right tilted	20	QPSK 1_0	18700/1860	1:1	0.040	0.019	0.19	18.47	19.60	1.297	0.052	22.4
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	18700/1860	1:1	0.054	0.028	-0.08	18.72	19.60	1.225	0.066	22.4
Left tilted	20	QPSK 50_0	18700/1860	1:1	0.033	0.012	-0.08	18.72	19.60	1.225	0.040	22.4
Right cheek	20	QPSK 50_0	18700/1860	1:1	0.120	0.058	0.06	18.72	19.60	1.225	0.147	22.4
Right tilted	20	QPSK 50_0	18700/1860	1:1	0.037	0.017	-0.03	18.72	19.60	1.225	0.045	22.4
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	18700/1860	1:1	0.007	0.003	-0.05	23.07	24.60	1.422	0.010	22.4
Back side	20	QPSK 1_50	18700/1860	1:1	0.027	0.011	-0.19	23.07	24.60	1.422	0.038	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_50	18700/1860	1:1	0.002	0.001	-0.18	22.09	23.60	1.416	0.003	22.4
Back side	20	QPSK 50_50	18700/1860	1:1	0.021	0.009	-0.12	22.09	23.60	1.416	0.030	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	18700/1860	1:1	0.005	0.002	0.07	18.18	19.10	1.236	0.006	22.4
Back side	20	QPSK 1_0	18700/1860	1:1	0.023	0.009	-0.12	18.18	19.10	1.236	0.028	22.4
Left side	20	QPSK 1_0	18700/1860	1:1	0.068	0.030	0.09	18.18	19.10	1.236	0.084	22.4
Top side	20	QPSK 1_0	18700/1860	1:1	0.004	0.002	-0.05	18.18	19.10	1.236	0.005	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_50	18700/1860	1:1	0.002	0.001	-0.13	17.99	19.10	1.291	0.003	22.4
Back side	20	QPSK 50_50	18700/1860	1:1	0.020	0.008	0.13	17.99	19.10	1.291	0.026	22.4
Left side	20	QPSK 50_50	18700/1860	1:1	0.064	0.027	-0.06	17.99	19.10	1.291	0.083	22.4
Top side	20	QPSK 50_50	18700/1860	1:1	0.002	0.001	0.07	17.99	19.10	1.291	0.003	22.4
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	18900/1880	1:1	0.306	0.172	-0.18	16.42	17.50	1.282	0.392	22.4
Left tilted	20	QPSK 1_50	18900/1880	1:1	0.376	0.206	-0.14	16.42	17.50	1.282	0.482	22.4
Right cheek	20	QPSK 1_50	18900/1880	1:1	0.542	0.272	-0.06	16.42	17.50	1.282	0.695	22.4
Right tilted	20	QPSK 1_50	18900/1880	1:1	0.629	0.302	-0.04	16.42	17.50	1.282	0.807	22.4
Right tilted	20	QPSK 1_99	18700/1860	1:1	0.600	0.296	0.16	16.39	17.50	1.291	0.775	22.4
Right tilted	20	QPSK 1_0	19100/1900	1:1	0.647	0.318	0.04	16.37	17.50	1.297	0.839	22.4
Right tilted	20	PCC QPSK 1_0 SCC QPSK 1_99	19100/1900 18902/1880.2	1:1	0.627	0.298	0.03	16.66	17.50	1.213	0.761	22.4

Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.281	0.163	0.00	16.44	17.50	1.276	0.359	22.4
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.377	0.207	0.04	16.44	17.50	1.276	0.481	22.4
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.537	0.276	0.19	16.44	17.50	1.276	0.685	22.4
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.630	0.305	0.17	16.44	17.50	1.276	0.804	22.4
Right tilted	20	QPSK 50_50	18700/1860	1:1	0.595	0.292	0.11	16.41	17.50	1.285	0.765	22.4
Right tilted	20	QPSK 50_25	19100/1900	1:1	0.742	0.327	0.05	16.35	17.50	1.303	**0.967**	22.4
Head Test Data (100%RB) DSI 2												
Right tilted	20	QPSK 100_0	18900/1880	1:1	0.597	0.305	0.16	16.41	17.50	1.285	0.767	22.4
Head Test Data (1RB) DSI 2 with Inter-band UL CA&ENDC												
Left cheek	20	QPSK 1_50	18900/1880	1:1	0.306	0.172	-0.18	16.42	14.50	0.643	0.197	22.4
Left tilted	20	QPSK 1_50	18900/1880	1:1	0.376	0.206	-0.14	16.42	14.50	0.643	0.242	22.4
Right cheek	20	QPSK 1_50	18900/1880	1:1	0.542	0.272	-0.06	16.42	14.50	0.643	0.348	22.4
Right tilted	20	QPSK 1_50	18900/1880	1:1	0.629	0.302	-0.04	16.42	14.50	0.643	0.404	22.4
Right tilted	20	QPSK 1_99	18700/1860	1:1	0.600	0.296	0.16	16.39	14.50	0.647	0.388	22.4
Right tilted	20	QPSK 1_0	19100/1900	1:1	0.647	0.318	0.04	16.37	14.50	0.650	0.421	22.4
Head Test Data (50%RB) DSI 2 with Inter-band UL CA&ENDC												
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.281	0.163	0.00	16.44	14.50	0.640	0.180	22.4
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.377	0.207	0.04	16.44	14.50	0.640	0.241	22.4
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.537	0.276	0.19	16.44	14.50	0.640	0.344	22.4
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.630	0.305	0.17	16.44	14.50	0.640	0.403	22.4
Right tilted	20	QPSK 50_50	18700/1860	1:1	0.595	0.292	0.11	16.41	14.50	0.644	0.383	22.4
Right tilted	20	QPSK 50_25	19100/1900	1:1	0.742	0.327	0.05	16.35	14.50	0.653	0.485	22.4
Head Test Data (100%RB) DSI 2 with Inter-band UL CA&ENDC												
Right tilted	20	QPSK 100_0	18900/1880	1:1	0.597	0.305	0.16	16.41	14.50	0.644	0.385	22.4
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	18900/1880	1:1	0.299	0.172	-0.06	23.36	25.00	1.459	0.436	22.4
Back side	20	QPSK 1_50	18900/1880	1:1	0.445	0.258	0.06	23.36	25.00	1.459	**0.649**	22.4
Back side	20	PCC QPSK 1_99	18900/1880	1:1	0.459	0.262	0.01	23.61	25.00	1.377	0.632	22.4
		SCC QPSK 1_0	19098/1899.8									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_0	18900/1880	1:1	0.246	0.140	0.16	22.32	24.00	1.472	0.362	22.4
Back side	20	QPSK 50_0	18900/1880	1:1	0.380	0.211	0.00	22.32	24.00	1.472	0.559	22.4
Body worn Test data (Separate 15mm 1RB) DSI 4 with Inter-band UL CA&ENDC												
Front side	20	QPSK 1_50	18900/1880	1:1	0.299	0.172	-0.06	23.36	22.00	0.731	0.219	22.4
Back side	20	QPSK 1_50	18900/1880	1:1	0.445	0.258	0.06	23.36	22.00	0.731	0.325	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 4 with Inter-band UL CA&ENDC												
Front side	20	QPSK 50_0	18900/1880	1:1	0.246	0.140	0.16	22.32	21.00	0.738	0.182	22.4
Back side	20	QPSK 50_0	18900/1880	1:1	0.380	0.211	0.00	22.32	21.00	0.738	0.280	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_50	18900/1880	1:1	0.135	0.073	0.17	16.91	18.50	1.442	0.195	22.4
Back side	20	QPSK 1_50	18900/1880	1:1	0.227	0.117	-0.14	16.91	18.50	1.442	0.327	22.4
Left side	20	QPSK 1_50	18900/1880	1:1	0.029	0.011	-0.13	16.91	18.50	1.442	0.042	22.4
Top side	20	QPSK 1_50	18900/1880	1:1	0.323	0.154	-0.10	16.91	18.50	1.442	0.466	22.4

Top side	20	PCC QPSK 1_99	18900/1880	1:1	0.331	0.176	0.02	17.23	18.50	1.340	0.443	22.4
		SCC QPSK 1_0	19098/1899.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_25	18900/1880	1:1	0.140	0.074	-0.16	16.92	18.50	1.439	0.201	22.4
Back side	20	QPSK 50_25	18900/1880	1:1	0.224	0.116	-0.03	16.92	18.50	1.439	0.322	22.4
Left side	20	QPSK 50_25	18900/1880	1:1	0.027	0.013	-0.18	16.92	18.50	1.439	0.039	22.4
Top side	20	QPSK 50_25	18900/1880	1:1	0.325	0.155	0.05	16.92	18.50	1.439	0.468	22.4
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 off DSI 4												
Back side 13mm	20	QPSK 1_50	18900/1880	1:1	0.670	0.362	0.16	23.36	25.00	1.459	0.528	22.4
Top side 14mm	20	QPSK 1_50	18900/1880	1:1	0.814	0.421	0.08	23.36	25.00	1.459	0.614	22.4
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off DSI 4												
Back side 13mm	20	QPSK 50_0	18900/1880	1:1	0.550	0.295	0.05	22.32	24.00	1.472	0.434	22.4
Top side 14mm	20	QPSK 50_0	18900/1880	1:1	0.642	0.332	-0.08	22.32	24.00	1.472	0.489	22.4
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1_50	18900/1880	1:1	1.550	0.720	-0.18	18.41	20.00	1.442	1.038	22.4
Top side	20	QPSK 1_50	18900/1880	1:1	4.200	1.600	0.01	18.41	20.00	1.442	**2.307**	22.4
Top side	20	QPSK 1_99	18700/1860	1:1	4.030	1.460	0.08	18.40	20.00	1.445	2.110	22.4
Top side	20	QPSK 1_0	19100/1900	1:1	4.190	1.520	0.10	18.33	20.00	1.469	2.233	22.4
Top side	20	PCC QPSK 1_99	18900/1880	1:1	4.430	1.670	0.11	18.77	20.00	1.327	2.217	22.4
		SCC QPSK 1_0	19098/1899.8									
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Back side	20	QPSK 50_50	18900/1880	1:1	1.630	0.759	0.08	18.41	20.00	1.442	1.095	22.4
Top side	20	QPSK 50_50	18900/1880	1:1	4.360	1.570	0.10	18.41	20.00	1.442	2.264	22.4
Top side	20	QPSK 50_50	18700/1860	1:1	4.080	1.470	0.10	18.40	20.00	1.445	2.125	22.4
Top side	20	QPSK 50_25	19100/1900	1:1	4.330	1.560	0.08	18.31	20.00	1.476	2.302	22.4
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on DSI 5												
Top side	20	QPSK 100_0	18900/1880	1:1	4.280	1.540	0.00	18.39	20.00	1.449	2.231	22.4
Ant 31 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_99	18900/1880	1:1	0.092	0.057	0.02	22.92	24.50	1.439	0.132	22.4
Left tilted	20	QPSK 1_99	18900/1880	1:1	0.046	0.026	-0.03	22.92	24.50	1.439	0.066	22.4
Right cheek	20	QPSK 1_99	18900/1880	1:1	0.090	0.056	0.13	22.92	24.50	1.439	0.129	22.4
Right tilted	20	QPSK 1_99	18900/1880	1:1	0.075	0.043	-0.18	22.92	24.50	1.439	0.108	22.4
Left cheek	20	PCC QPSK 1_99	18900/1880	1:1	0.058	0.035	0.01	23.31	24.50	1.315	0.076	22.4
		SCC QPSK 1_0	19098/1899.8									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_50	18900/1880	1:1	0.077	0.049	-0.18	21.88	23.50	1.452	0.112	22.4
Left tilted	20	QPSK 50_50	18900/1880	1:1	0.039	0.023	-0.04	21.88	23.50	1.452	0.057	22.4
Right cheek	20	QPSK 50_50	18900/1880	1:1	0.076	0.047	0.04	21.88	23.50	1.452	0.110	22.4
Right tilted	20	QPSK 50_50	18900/1880	1:1	0.061	0.035	0.11	21.88	23.50	1.452	0.089	22.4

Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_0	19100/1900	1:1	0.096	0.058	0.09	18.88	20.50	1.452	0.139	22.4
Back side	20	QPSK 1_0	19100/1900	1:1	0.171	0.103	0.14	18.88	20.50	1.452	0.248	22.4
Back side	20	PCC QPSK 1_0	19100/1900	1:1	0.185	0.111	0.04	19.41	20.50	1.285	0.238	22.4
		SCC QPSK 1_99	18902/1880.2									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_50	18900/1880	1:1	0.106	0.065	-0.11	18.92	20.50	1.439	0.153	22.4
Back side	20	QPSK 50_50	18900/1880	1:1	0.176	0.106	-0.14	18.92	20.50	1.439	0.253	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	19100/1900	1:1	0.175	0.103	0.04	18.88	20.50	1.452	0.254	22.4
Back side	20	QPSK 1_0	19100/1900	1:1	0.300	0.174	0.08	18.88	20.50	1.452	0.436	22.4
Left side	20	QPSK 1_0	19100/1900	1:1	0.041	0.024	-0.03	18.88	20.50	1.452	0.060	22.4
Right side	20	QPSK 1_0	19100/1900	1:1	0.094	0.049	0.05	18.88	20.50	1.452	0.136	22.4
Bottom side	20	QPSK 1_0	19100/1900	1:1	0.337	0.185	0.16	18.88	20.50	1.452	0.489	22.4
Bottom side	20	PCC QPSK 1_0	19100/1900	1:1	0.389	0.225	0.06	19.41	20.50	1.285	0.500	22.4
		SCC QPSK 1_99	18902/1880.2									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_50	18900/1880	1:1	0.190	0.112	0.14	18.91	20.50	1.442	0.274	22.4
Back side	20	QPSK 50_50	18900/1880	1:1	0.328	0.191	-0.03	18.91	20.50	1.442	0.473	22.4
Left side	20	QPSK 50_50	18900/1880	1:1	0.043	0.025	0.08	18.91	20.50	1.442	0.062	22.4
Right side	20	QPSK 50_50	18900/1880	1:1	0.073	0.043	0.06	18.91	20.50	1.442	0.105	22.4
Bottom side	20	QPSK 50_50	18900/1880	1:1	0.389	0.228	0.03	18.91	20.50	1.442	**0.561**	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 10 with ENDC												
Front side	20	QPSK 1_0	19100/1900	1:1	0.175	0.103	0.04	18.88	17.50	0.728	0.127	22.4
Back side	20	QPSK 1_0	19100/1900	1:1	0.300	0.174	0.08	18.88	17.50	0.728	0.218	22.4
Left side	20	QPSK 1_0	19100/1900	1:1	0.041	0.024	-0.03	18.88	17.50	0.728	0.030	22.4
Right side	20	QPSK 1_0	19100/1900	1:1	0.094	0.049	0.05	18.88	17.50	0.728	0.068	22.4
Bottom side	20	QPSK 1_0	19100/1900	1:1	0.337	0.185	0.16	18.88	17.50	0.728	0.245	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 10 with ENDC												
Front side	20	QPSK 50_50	18900/1880	1:1	0.190	0.112	0.14	18.91	17.50	0.723	0.137	22.4
Back side	20	QPSK 50_50	18900/1880	1:1	0.328	0.191	-0.03	18.91	17.50	0.723	0.237	22.4
Left side	20	QPSK 50_50	18900/1880	1:1	0.043	0.025	0.08	18.91	17.50	0.723	0.031	22.4
Right side	20	QPSK 50_50	18900/1880	1:1	0.073	0.043	0.06	18.91	17.50	0.723	0.053	22.4
Bottom side	20	QPSK 50_50	18900/1880	1:1	0.389	0.228	0.03	18.91	17.50	0.723	0.281	22.4

(for original report SZCR241200494509)

LTE Band 2 SAR Test Record												
Ant 13 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (50%RB) DSI 2												
Right tilted	20	QPSK 50_25	19100/1900	1:1	0.620	0.280	0.07	16.35	17.50	1.303	**0.808**	22.3
Head Test Data (1RB) DSI 2 with Inter-band UL CA&ENDC												
Body worn Test data (Separate 15mm 1RB) DSI 4												
Back side	20	QPSK 1_50	18900/1880	1:1	0.413	0.240	0.01	23.36	25.00	1.459	**0.602**	22.3
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 DSI 5												
Top side	20	QPSK 1_50	18900/1880	1:1	3.280	1.270	0.08	18.41	20.00	1.442	**1.831**	22.3
Ant 31 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.(℃)**
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Bottom side	20	QPSK 50_50	18900/1880	1:1	0.371	0.216	0.10	18.91	20.50	1.442	**0.535**	22.3

(for new report SZCR250100029101)

8.2.7 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record												
Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.286	0.125	0.17	16.96	17.90	1.242	0.355	21.9
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.051	0.028	-0.11	16.96	17.90	1.242	0.063	21.9
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.473	0.215	0.10	16.96	17.90	1.242	0.587	21.9
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.097	0.050	-0.15	16.96	17.90	1.242	0.120	21.9
Right cheek	20	PCC QPSK 1_0	21100/2535	1:1	0.440	0.190	0.02	16.66	17.90	1.330	0.585	21.9
		SCC QPSK 1_99	20902/2635.2									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_25	21100/2535	1:1	0.315	0.138	0.18	16.96	17.90	1.242	0.391	21.9
Left tilted	20	QPSK 50_25	21100/2535	1:1	0.059	0.032	-0.03	16.96	17.90	1.242	0.073	21.9
Right cheek	20	QPSK 50_25	21100/2535	1:1	0.484	0.219	-0.17	16.96	17.90	1.242	0.601	21.9
Right tilted	20	QPSK 50_25	21100/2535	1:1	0.103	0.054	-0.03	16.96	17.90	1.242	0.128	21.9
Head Test Data (1RB) DSI 2 with ENDC												
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.286	0.125	0.17	16.96	14.90	0.622	0.178	21.9
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.051	0.028	-0.11	16.96	14.90	0.622	0.032	21.9
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.473	0.215	0.10	16.96	14.90	0.622	0.294	21.9
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.097	0.050	-0.15	16.96	14.90	0.622	0.060	21.9
Head Test Data (50%RB) DSI 2 with ENDC												
Left cheek	20	QPSK 50_25	21100/2535	1:1	0.315	0.138	0.18	16.96	14.90	0.622	0.196	21.9
Left tilted	20	QPSK 50_25	21100/2535	1:1	0.059	0.032	-0.03	16.96	14.90	0.622	0.037	21.9
Right cheek	20	QPSK 50_25	21100/2535	1:1	0.484	0.219	-0.17	16.96	14.90	0.622	0.301	21.9
Right tilted	20	QPSK 50_25	21100/2535	1:1	0.103	0.054	-0.03	16.96	14.90	0.622	0.064	21.9
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_0	21350/2560	1:1	0.292	0.127	0.12	23.05	23.90	1.216	0.355	21.9
Back side	20	QPSK 1_0	21350/2560	1:1	0.482	0.232	-0.12	23.05	23.90	1.216	0.586	21.9
Back side	20	PCC QPSK 1_0	21350/2560	1:1	0.449	0.221	0.08	22.75	23.90	1.303	0.585	21.9
		SCC QPSK 1_99	21152/2540.2									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_0	21350/2560	1:1	0.248	0.108	0.00	22.62	23.40	1.197	0.297	21.9
Back side	20	QPSK 50_0	21350/2560	1:1	0.435	0.209	0.02	22.62	23.40	1.197	0.521	21.9
Body worn Test data (Separate 15mm 1RB) DSI 4 with Inter-band UL CA												
Front side	20	QPSK 1_0	21350/2560	1:1	0.292	0.127	0.12	23.05	20.90	0.610	0.178	21.9
Back side	20	QPSK 1_0	21350/2560	1:1	0.482	0.232	-0.12	23.05	20.90	0.610	0.294	21.9
Body worn Test data (Separate 15mm 50%RB) DSI 4 with Inter-band UL CA												
Front side	20	QPSK 50_0	21350/2560	1:1	0.248	0.108	0.00	22.62	20.40	0.600	0.149	21.9
Back side	20	QPSK 50_0	21350/2560	1:1	0.435	0.209	0.02	22.62	20.40	0.600	0.261	21.9
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_50	21100/2535	1:1	0.132	0.055	0.13	16.51	17.40	1.227	0.162	21.9

Back side	20	QPSK 1_50	21100/2535	1:1	0.185	0.083	0.12	16.51	17.40	1.227	0.227	21.9
Left side	20	QPSK 1_50	21100/2535	1:1	0.350	0.145	0.09	16.51	17.40	1.227	**0.430**	21.9
Top side	20	QPSK 1_50	21100/2535	1:1	0.006	0.003	0.06	16.51	17.40	1.227	0.007	21.9
Left side	20	PCC QPSK 1_99	21100/2535	1:1	0.333	0.141	0.02	16.35	17.40	1.274	0.424	21.9
		SCC QPSK 1_0	21298/2554.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	21100/2535	1:1	0.116	0.055	-0.16	16.44	17.40	1.247	0.145	21.9
Back side	20	QPSK 50_0	21100/2535	1:1	0.224	0.096	-0.12	16.44	17.40	1.247	0.279	21.9
Left side	20	QPSK 50_0	21100/2535	1:1	0.342	0.143	-0.14	16.44	17.40	1.247	0.427	21.9
Top side	20	QPSK 50_0	21100/2535	1:1	0.040	0.013	0.11	16.44	17.40	1.247	0.050	21.9
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 off DSI 4												
Left side 15mm	20	QPSK 1_0	21350/2560	1:1	0.919	0.414	0.15	23.05	23.90	1.216	0.504	21.9
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off DSI 4												
Left side 15mm	20	QPSK 50_0	21350/2560	1:1	0.825	0.372	-0.12	22.62	23.40	1.197	0.445	21.9
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Left side	20	QPSK 1_50	21100/2535	1:1	4.140	1.400	-0.10	18.02	18.90	1.225	1.714	21.9
Left side	20	PCC QPSK 1_99	21100/2535	1:1	4.200	1.370	0.05	17.90	18.90	1.259	1.725	21.9
		SCC QPSK 1_0	21298/2554.8									
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Left side	20	QPSK 50_25	21100/2535	1:1	4.180	1.410	0.03	18.00	18.90	1.230	1.735	21.9
Ant 13 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	21350/2560	1:1	0.170	0.083	0.12	14.68	16.00	1.355	0.230	21.9
Left tilted	20	QPSK 1_50	21350/2560	1:1	0.218	0.109	0.10	14.68	16.00	1.355	0.295	21.9
Right cheek	20	QPSK 1_50	21350/2560	1:1	0.366	0.165	0.19	14.68	16.00	1.355	0.496	21.9
Right tilted	20	QPSK 1_50	21350/2560	1:1	0.459	0.188	0.03	14.68	16.00	1.355	**0.622**	21.9
Right tilted	20	PCC QPSK 1_0	21350/2560	1:1	0.410	0.174	-0.02	14.45	16.00	1.429	0.586	21.9
		SCC QPSK 1_99	21152/2540.2									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_50	21350/2560	1:1	0.168	0.085	-0.07	14.70	16.00	1.349	0.227	21.9
Left tilted	20	QPSK 50_50	21350/2560	1:1	0.212	0.107	-0.02	14.70	16.00	1.349	0.286	21.9
Right cheek	20	QPSK 50_50	21350/2560	1:1	0.368	0.166	0.03	14.70	16.00	1.349	0.496	21.9
Right tilted	20	QPSK 50_50	21350/2560	1:1	0.451	0.183	-0.09	14.70	16.00	1.349	0.608	21.9
Head Test Data (1RB) DSI 2 with ENDC												
Left cheek	20	QPSK 1_50	21350/2560	1:1	0.170	0.083	0.12	14.68	13.00	0.679	0.115	21.9
Left tilted	20	QPSK 1_50	21350/2560	1:1	0.218	0.109	0.10	14.68	13.00	0.679	0.148	21.9
Right cheek	20	QPSK 1_50	21350/2560	1:1	0.366	0.165	0.19	14.68	13.00	0.679	0.249	21.9
Right tilted	20	QPSK 1_50	21350/2560	1:1	0.459	0.188	0.03	14.68	13.00	0.679	0.312	21.9
Head Test Data (50%RB) DSI 2 with ENDC												
Left cheek	20	QPSK 50_50	21350/2560	1:1	0.168	0.085	-0.07	14.70	13.00	0.676	0.114	21.9

Left tilted	20	QPSK 50_50	21350/2560	1:1	0.212	0.107	-0.02	14.70	13.00	0.676	0.143	21.9
Right cheek	20	QPSK 50_50	21350/2560	1:1	0.368	0.166	0.03	14.70	13.00	0.676	0.249	21.9
Right tilted	20	QPSK 50_50	21350/2560	1:1	0.451	0.183	-0.09	14.70	13.00	0.676	0.305	21.9
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	21100/2535	1:1	0.151	0.080	0.04	20.71	22.00	1.346	0.203	21.9
Back side	20	QPSK 1_50	21100/2535	1:1	0.482	0.242	0.08	20.71	22.00	1.346	**0.649**	21.9
Back side	20	PCC QPSK 1_99	21100/2535	1:1	0.441	0.211	0.01	20.61	22.00	1.377	0.607	21.9
		SCC QPSK 1_0	21298/2554.8									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_50	21350/2560	1:1	0.151	0.079	-0.08	20.71	22.00	1.346	0.203	21.9
Back side	20	QPSK 50_50	21350/2560	1:1	0.480	0.241	0.06	20.71	22.00	1.346	0.646	21.9
Body worn Test data (Separate 15mm 1RB) DSI 4 with ENDC												
Front side	20	QPSK 1_50	21100/2535	1:1	0.151	0.080	0.04	20.71	19.00	0.675	0.102	21.9
Back side	20	QPSK 1_50	21100/2535	1:1	0.482	0.242	0.08	20.71	19.00	0.675	0.325	21.9
Body worn Test data (Separate 15mm 50%RB) DSI 4 with ENDC												
Front side	20	QPSK 50_50	21350/2560	1:1	0.151	0.079	-0.08	20.71	19.00	0.675	0.102	21.9
Back side	20	QPSK 50_50	21350/2560	1:1	0.480	0.241	0.06	20.71	19.00	0.675	0.324	21.9
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	21350/2560	1:1	0.076	0.038	0.03	15.20	16.50	1.349	0.103	21.9
Back side	20	QPSK 1_0	21350/2560	1:1	0.288	0.127	-0.05	15.20	16.50	1.349	0.389	21.9
Left side	20	QPSK 1_0	21350/2560	1:1	0.055	0.030	-0.08	15.20	16.50	1.349	0.074	21.9
Top side	20	QPSK 1_0	21350/2560	1:1	0.305	0.149	0.09	15.20	16.50	1.349	0.411	21.9
Top side	20	PCC QPSK 1_0	21350/2560	1:1	0.299	0.137	0.07	15.13	16.50	1.371	0.410	21.9
		SCC QPSK 1_99	21152/2540.2									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	21100/2535	1:1	0.081	0.041	0.19	15.21	16.50	1.346	0.109	21.9
Back side	20	QPSK 50_0	21100/2535	1:1	0.302	0.132	-0.16	15.21	16.50	1.346	0.406	21.9
Left side	20	QPSK 50_0	21100/2535	1:1	0.059	0.031	0.08	15.21	16.50	1.346	0.079	21.9
Top side	20	QPSK 50_0	21100/2535	1:1	0.318	0.154	0.16	15.21	16.50	1.346	0.428	21.9
Hotspot Test data (Separate 10mm 1RB) DSI 10 with ENDC												
Front side	20	QPSK 1_0	21350/2560	1:1	0.076	0.038	0.03	15.20	13.50	0.676	0.051	21.9
Back side	20	QPSK 1_0	21350/2560	1:1	0.288	0.127	-0.05	15.20	13.50	0.676	0.195	21.9
Left side	20	QPSK 1_0	21350/2560	1:1	0.055	0.030	-0.08	15.20	13.50	0.676	0.037	21.9
Top side	20	QPSK 1_0	21350/2560	1:1	0.305	0.149	0.09	15.20	13.50	0.676	0.206	21.9
Hotspot Test data (Separate 10mm 50%RB) DSI 10 with ENDC												
Front side	20	QPSK 50_0	21100/2535	1:1	0.081	0.041	0.19	15.21	13.50	0.675	0.055	21.9
Back side	20	QPSK 50_0	21100/2535	1:1	0.302	0.132	-0.16	15.21	13.50	0.675	0.204	21.9
Left side	20	QPSK 50_0	21100/2535	1:1	0.059	0.031	0.08	15.21	13.50	0.675	0.040	21.9
Top side	20	QPSK 50_0	21100/2535	1:1	0.318	0.154	0.16	15.21	13.50	0.675	0.214	21.9
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 off DSI 4												
Back side 13mm	20	QPSK 1_50	21100/2535	1:1	0.702	0.327	0.10	20.71	22.00	1.346	0.440	21.9
Top side 14mm	20	QPSK 1_50	21100/2535	1:1	0.722	0.341	0.03	20.71	22.00	1.346	0.459	21.9

Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off DSI 4												
Back side 13mm	20	QPSK 50_50	21350/2560	1:1	0.710	0.332	-0.06	20.71	22.00	1.346	0.447	21.9
Top side 14mm	20	QPSK 50_50	21350/2560	1:1	0.729	0.347	-0.03	20.71	22.00	1.346	0.467	21.9
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1_50	21100/2535	1:1	2.130	0.840	-0.04	16.71	18.00	1.346	1.131	21.9
Top side	20	QPSK 1_50	21100/2535	1:1	4.230	1.460	-0.01	16.71	18.00	1.346	**1.965**	21.9
Top side	20	PCC QPSK 1_99	21100/2535	1:1	3.720	1.430	0.08	16.66	18.00	1.361	1.947	21.9
		SCC QPSK 1_0	21298/2554.8									
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Back side	20	QPSK 50_50	21350/2560	1:1	2.000	0.816	-0.15	16.70	18.00	1.349	1.101	21.9
Top side	20	QPSK 50_50	21350/2560	1:1	4.130	1.350	0.16	16.70	18.00	1.349	1.821	21.9
Ant 31 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.196	0.115	0.05	23.05	24.40	1.365	0.267	21.9
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.202	0.108	-0.14	23.05	24.40	1.365	0.276	21.9
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.393	0.216	-0.01	23.05	24.40	1.365	0.536	21.9
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.173	0.095	-0.09	23.05	24.40	1.365	0.236	21.9
Right cheek	20	PCC QPSK 1_99	21100/2535	1:1	0.379	0.209	0.03	22.91	24.40	1.409	0.534	21.9
		SCC QPSK 1_0	21298/2554.8									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_50	21350/2560	1:1	0.155	0.092	0.04	22.10	23.40	1.349	0.209	21.9
Left tilted	20	QPSK 50_50	21350/2560	1:1	0.170	0.091	0.18	22.10	23.40	1.349	0.229	21.9
Right cheek	20	QPSK 50_50	21350/2560	1:1	0.331	0.181	0.10	22.10	23.40	1.349	0.447	21.9
Right tilted	20	QPSK 50_50	21350/2560	1:1	0.138	0.077	-0.05	22.10	23.40	1.349	0.186	21.9
Head Test Data (1RB) DSI 2 with ENDC												
Left cheek	20	QPSK 1_0	21100/2535	1:1	0.196	0.115	0.05	23.05	21.40	0.684	0.134	21.9
Left tilted	20	QPSK 1_0	21100/2535	1:1	0.202	0.108	-0.14	23.05	21.40	0.684	0.138	21.9
Right cheek	20	QPSK 1_0	21100/2535	1:1	0.393	0.216	-0.01	23.05	21.40	0.684	0.269	21.9
Right tilted	20	QPSK 1_0	21100/2535	1:1	0.173	0.095	-0.09	23.05	21.40	0.684	0.118	21.9
Head Test Data (50%RB) DSI 2 with ENDC												
Left cheek	20	QPSK 50_50	21350/2560	1:1	0.155	0.092	0.04	22.10	20.40	0.676	0.105	21.9
Left tilted	20	QPSK 50_50	21350/2560	1:1	0.170	0.091	0.18	22.10	20.40	0.676	0.115	21.9
Right cheek	20	QPSK 50_50	21350/2560	1:1	0.331	0.181	0.10	22.10	20.40	0.676	0.224	21.9
Right tilted	20	QPSK 50_50	21350/2560	1:1	0.138	0.077	-0.05	22.10	20.40	0.676	0.093	21.9
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_0	21100/2535	1:1	0.166	0.093	0.01	20.61	21.90	1.346	0.223	21.9
Back side	20	QPSK 1_0	21100/2535	1:1	0.160	0.088	0.19	20.61	21.90	1.346	0.215	21.9
Front side	20	PCC QPSK 1_0	21100/2535	1:1	0.161	0.091	0.02	20.56	21.90	1.361	0.219	21.9
		SCC QPSK 1_99	20902/2635.2									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_0	21100/2535	1:1	0.165	0.093	0.04	20.59	21.90	1.352	0.223	21.9
Back side	20	QPSK 50_0	21100/2535	1:1	0.163	0.092	-0.10	20.59	21.90	1.352	0.220	21.9

Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	21100/2535	1:1	0.126	0.069	0.03	16.58	17.90	1.355	0.171	21.9
Back side	20	QPSK 1_0	21100/2535	1:1	0.150	0.076	0.11	16.58	17.90	1.355	0.203	21.9
Left side	20	QPSK 1_0	21100/2535	1:1	0.023	0.005	0.15	16.58	17.90	1.355	0.031	21.9
Right side	20	QPSK 1_0	21100/2535	1:1	0.094	0.053	0.16	16.58	17.90	1.355	0.127	21.9
Bottom side	20	QPSK 1_0	21100/2535	1:1	0.130	0.060	0.04	16.58	17.90	1.355	0.176	21.9
Back side	20	PCC QPSK 1_0	21100/2535	1:1	0.140	0.074	0.05	16.53	17.90	1.371	0.192	21.9
		SCC QPSK 1_99	20902/2635.2									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	21100/2535	1:1	0.137	0.075	0.16	16.55	17.90	1.365	0.187	21.9
Back side	20	QPSK 50_0	21100/2535	1:1	0.139	0.075	-0.18	16.55	17.90	1.365	0.190	21.9
Left side	20	QPSK 50_0	21100/2535	1:1	0.058	0.016	0.03	16.55	17.90	1.365	0.079	21.9
Right side	20	QPSK 50_0	21100/2535	1:1	0.088	0.047	0.03	16.55	17.90	1.365	0.120	21.9
Bottom side	20	QPSK 50_0	21100/2535	1:1	0.129	0.060	-0.07	16.55	17.90	1.365	0.176	21.9

(for original report SZCR241200494509)

LTE Band 7 SAR Test Record												
Ant 11 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.(℃)**
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Left side	20	QPSK 1_50	21100/2535	1:1	0.333	0.141	-0.05	16.51	17.40	1.227	**0.409**	22.5
Ant 13 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Right tilted	20	QPSK 1_50	21350/2560	1:1	0.453	0.185	0.02	14.68	16.00	1.355	**0.614**	22.5
Body worn Test data (Separate 15mm 1RB) DSI 4												
Back side	20	QPSK 1_50	21100/2535	1:1	0.439	0.226	-0.04	20.71	22.00	1.346	**0.591**	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 DSI 5												
Top side	20	QPSK 1_50	21100/2535	1:1	3.890	1.350	-0.05	16.71	18.00	1.346	**1.817**	22.5

(for new report SZCR250100029101)

8.2.8 SAR Result of LTE Band 12

LTE Band 12 SAR Test Record												
Ant 13 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	10	QPSK 1_0	23060/704	1:1	0.334	0.200	0.02	23.39	24.50	1.291	0.431	22.1
Left tilted	10	QPSK 1_0	23060/704	1:1	0.313	0.179	0.16	23.39	24.50	1.291	0.404	22.1
Right cheek	10	QPSK 1_0	23060/704	1:1	0.534	0.307	-0.13	23.39	24.50	1.291	**0.690**	22.1
Right tilted	10	QPSK 1_0	23060/704	1:1	0.478	0.237	-0.11	23.39	24.50	1.291	0.617	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	10	QPSK 25_0	23060/704	1:1	0.315	0.190	0.01	22.85	24.00	1.303	0.410	22.1
Left tilted	10	QPSK 25_0	23060/704	1:1	0.301	0.171	0.10	22.85	24.00	1.303	0.392	22.1
Right cheek	10	QPSK 25_0	23060/704	1:1	0.452	0.244	-0.12	22.85	24.00	1.303	0.589	22.1
Right tilted	10	QPSK 25_0	23060/704	1:1	0.431	0.217	-0.09	22.85	24.00	1.303	0.562	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	10	QPSK 1_0	23060/704	1:1	0.088	0.063	0.15	23.80	25.00	1.318	0.116	22.1
Back side	10	QPSK 1_0	23060/704	1:1	0.115	0.084	-0.10	23.80	25.00	1.318	0.152	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	10	QPSK 25_0	23060/704	1:1	0.071	0.052	0.14	22.79	24.00	1.321	0.094	22.1
Back side	10	QPSK 25_0	23060/704	1:1	0.095	0.069	-0.19	22.79	24.00	1.321	0.126	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	10	QPSK 1_0	23060/704	1:1	0.077	0.053	0.02	23.80	25.00	1.318	0.102	22.1
Back side	10	QPSK 1_0	23060/704	1:1	0.121	0.086	-0.13	23.80	25.00	1.318	0.160	22.1
Left side	10	QPSK 1_0	23060/704	1:1	0.113	0.076	-0.18	23.80	25.00	1.318	0.149	22.1
Top side	10	QPSK 1_0	23060/704	1:1	0.112	0.065	-0.03	23.80	25.00	1.318	0.148	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	10	QPSK 25_0	23060/704	1:1	0.070	0.048	-0.11	22.79	24.00	1.321	0.092	22.1
Back side	10	QPSK 25_0	23060/704	1:1	0.098	0.069	0.17	22.79	24.00	1.321	0.129	22.1
Left side	10	QPSK 25_0	23060/704	1:1	0.076	0.051	-0.05	22.79	24.00	1.321	0.100	22.1
Top side	10	QPSK 25_0	23060/704	1:1	0.094	0.054	-0.12	22.79	24.00	1.321	0.124	22.1
Ant 31 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	10	QPSK 1_0	23130/711	1:1	0.100	72.000	-0.10	23.54	25.00	1.400	0.140	22.1
Left tilted	10	QPSK 1_0	23130/711	1:1	0.058	0.043	-0.14	23.54	25.00	1.400	0.081	22.1
Right cheek	10	QPSK 1_0	23130/711	1:1	0.083	0.061	0.05	23.54	25.00	1.400	0.116	22.1
Right tilted	10	QPSK 1_0	23130/711	1:1	0.049	0.037	-0.03	23.54	25.00	1.400	0.069	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	10	QPSK 25_0	23060/704	1:1	0.073	0.053	0.19	22.60	24.00	1.380	0.101	22.1
Left tilted	10	QPSK 25_0	23060/704	1:1	0.036	0.019	0.08	22.60	24.00	1.380	0.050	22.1

Right cheek	10	QPSK 25_0	23060/704	1:1	0.063	0.046	0.14	22.60	24.00	1.380	0.087	22.1
Right tilted	10	QPSK 25_0	23060/704	1:1	0.031	0.020	-0.04	22.60	24.00	1.380	0.043	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	10	QPSK 1_0	23130/711	1:1	0.141	0.102	-0.11	23.54	25.00	1.400	0.197	22.1
Back side	10	QPSK 1_0	23130/711	1:1	0.175	0.135	-0.05	23.54	25.00	1.400	**0.245**	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	10	QPSK 25_0	23060/704	1:1	0.108	0.079	-0.12	22.60	24.00	1.380	0.149	22.1
Back side	10	QPSK 25_0	23060/704	1:1	0.134	0.098	-0.03	22.60	24.00	1.380	0.185	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	10	QPSK 1_0	23130/711	1:1	0.130	0.095	-0.07	23.54	25.00	1.400	0.182	22.1
Back side	10	QPSK 1_0	23130/711	1:1	0.167	0.122	-0.09	23.54	25.00	1.400	0.234	22.1
Left side	10	QPSK 1_0	23130/711	1:1	0.241	0.169	0.07	23.54	25.00	1.400	**0.337**	22.1
Right side	10	QPSK 1_0	23130/711	1:1	0.125	0.083	0.10	23.54	25.00	1.400	0.175	22.1
Bottom side	10	QPSK 1_0	23130/711	1:1	0.119	0.061	-0.08	23.54	25.00	1.400	0.167	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	10	QPSK 25_0	23060/704	1:1	0.093	0.068	0.13	22.60	24.00	1.380	0.128	22.1
Back side	10	QPSK 25_0	23060/704	1:1	0.129	0.094	-0.12	22.60	24.00	1.380	0.178	22.1
Left side	10	QPSK 25_0	23060/704	1:1	0.155	0.104	0.03	22.60	24.00	1.380	0.214	22.1
Right side	10	QPSK 25_0	23060/704	1:1	0.093	0.063	-0.09	22.60	24.00	1.380	0.128	22.1
Bottom side	10	QPSK 25_0	23060/704	1:1	0.082	0.041	-0.06	22.60	24.00	1.380	0.113	22.1

(for original report SZCR241200494509)

LTE Band 12 SAR Test Record												
Ant 13 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Right cheek	10	QPSK 1_0	23060/704	1:1	0.430	0.251	0.03	23.39	24.50	1.291	**0.555**	22.1
Ant 31 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.(℃)**
Body worn Test data (Separate 15mm 1RB) DSI 4												
Back side	10	QPSK 1_0	23130/711	1:1	0.171	0.135	-0.02	23.54	25.00	1.400	**0.239**	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Left side	10	QPSK 1_0	23130/711	1:1	0.228	0.161	0.13	23.54	25.00	1.400	**0.319**	22.1

(for new report SZCR250100029101)

8.2.9 SAR Result of LTE Band 13

LTE Band 13 SAR Test Record												
Ant 13 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.430	0.274	0.01	23.21	24.50	1.346	0.579	22.0
Left tilted	10	QPSK 1_0	23230/782	1:1	0.409	0.241	-0.10	23.21	24.50	1.346	0.550	22.0
Right cheek	10	QPSK 1_0	23230/782	1:1	0.556	0.325	-0.12	23.21	24.50	1.346	**0.748**	22.0
Right tilted	10	QPSK 1_0	23230/782	1:1	0.509	0.269	-0.04	23.21	24.50	1.346	0.685	22.0
Head Test Data (50%RB) DSI 2												
Left cheek	10	QPSK 25_13	23230/782	1:1	0.363	0.232	0.06	22.70	24.00	1.349	0.490	22.0
Left tilted	10	QPSK 25_13	23230/782	1:1	0.353	0.209	0.09	22.70	24.00	1.349	0.476	22.0
Right cheek	10	QPSK 25_13	23230/782	1:1	0.516	0.291	-0.13	22.70	24.00	1.349	0.696	22.0
Right tilted	10	QPSK 25_13	23230/782	1:1	0.433	0.229	-0.19	22.70	24.00	1.349	0.584	22.0
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	10	QPSK 1_0	23230/782	1:1	0.105	0.076	-0.15	23.51	25.00	1.409	0.148	22.0
Back side	10	QPSK 1_0	23230/782	1:1	0.138	0.100	0.10	23.51	25.00	1.409	0.194	22.0
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	10	QPSK 25_0	23230/782	1:1	0.083	0.060	0.05	22.61	24.00	1.377	0.114	22.0
Back side	10	QPSK 25_0	23230/782	1:1	0.106	0.077	0.18	22.61	24.00	1.377	0.146	22.0
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	10	QPSK 1_0	23230/782	1:1	0.135	0.089	0.06	23.51	25.00	1.409	0.190	22.0
Back side	10	QPSK 1_0	23230/782	1:1	0.168	0.118	0.01	23.51	25.00	1.409	0.237	22.0
Left side	10	QPSK 1_0	23230/782	1:1	0.097	0.064	-0.04	23.51	25.00	1.409	0.137	22.0
Top side	10	QPSK 1_0	23230/782	1:1	0.142	0.082	-0.07	23.51	25.00	1.409	0.200	22.0
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	10	QPSK 25_0	23230/782	1:1	0.102	0.067	0.11	22.61	24.00	1.377	0.140	22.0
Back side	10	QPSK 25_0	23230/782	1:1	0.129	0.090	0.01	22.61	24.00	1.377	0.178	22.0
Left side	10	QPSK 25_0	23230/782	1:1	0.079	0.051	-0.03	22.61	24.00	1.377	0.109	22.0
Top side	10	QPSK 25_0	23230/782	1:1	0.109	0.063	0.11	22.61	24.00	1.377	0.150	22.0
Ant 31 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.175	0.125	-0.10	23.34	25.00	1.466	0.256	22.0
Left tilted	10	QPSK 1_0	23230/782	1:1	0.116	0.086	0.05	23.34	25.00	1.466	0.170	22.0
Right cheek	10	QPSK 1_0	23230/782	1:1	0.143	0.104	-0.13	23.34	25.00	1.466	0.210	22.0
Right tilted	10	QPSK 1_0	23230/782	1:1	0.099	0.074	0.12	23.34	25.00	1.466	0.145	22.0
Head Test Data (50%RB) DSI 2												
Left cheek	10	QPSK 25_0	23230/782	1:1	0.144	0.102	-0.15	22.44	24.00	1.432	0.206	22.0
Left tilted	10	QPSK 25_0	23230/782	1:1	0.093	0.096	0.12	22.44	24.00	1.432	0.133	22.0

Right cheek	10	QPSK 25_0	23230/782	1:1	0.118	0.085	0.01	22.44	24.00	1.432	0.169	22.0
Right tilted	10	QPSK 25_0	23230/782	1:1	0.082	0.061	0.14	22.44	24.00	1.432	0.117	22.0
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	10	QPSK 1_0	23230/782	1:1	0.174	0.125	-0.17	23.34	25.00	1.466	0.255	22.0
Back side	10	QPSK 1_0	23230/782	1:1	0.238	0.186	-0.01	23.34	25.00	1.466	**0.349**	22.0
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	10	QPSK 25_0	23230/782	1:1	0.137	0.100	-0.09	22.44	24.00	1.432	0.196	22.0
Back side	10	QPSK 25_0	23230/782	1:1	0.165	0.118	0.08	22.44	24.00	1.432	0.236	22.0
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	10	QPSK 1_0	23230/782	1:1	0.156	0.113	-0.04	23.34	25.00	1.466	0.229	22.0
Back side	10	QPSK 1_0	23230/782	1:1	0.207	0.150	-0.12	23.34	25.00	1.466	0.303	22.0
Left side	10	QPSK 1_0	23230/782	1:1	0.258	0.181	0.06	23.34	25.00	1.466	**0.378**	22.0
Right side	10	QPSK 1_0	23230/782	1:1	0.126	0.084	0.13	23.34	25.00	1.466	0.185	22.0
Bottom side	10	QPSK 1_0	23230/782	1:1	0.227	0.120	-0.01	23.34	25.00	1.466	0.333	22.0
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	10	QPSK 25_0	23230/782	1:1	0.124	0.075	0.02	22.44	24.00	1.432	0.178	22.0
Back side	10	QPSK 25_0	23230/782	1:1	0.162	0.100	-0.09	22.44	24.00	1.432	0.232	22.0
Left side	10	QPSK 25_0	23230/782	1:1	0.181	0.120	-0.07	22.44	24.00	1.432	0.259	22.0
Right side	10	QPSK 25_0	23230/782	1:1	0.102	0.068	-0.06	22.44	24.00	1.432	0.146	22.0
Bottom side	10	QPSK 25_0	23230/782	1:1	0.187	0.099	-0.13	22.44	24.00	1.432	0.268	22.0

(for original report SZCR241200494509)

LTE Band 13 SAR Test Record												
Ant 13 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Right cheek	10	QPSK 1_0	23230/782	1:1	0.477	0.290	-0.01	23.21	24.50	1.346	**0.642**	22.1
Ant 31 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.(℃)**
Body worn Test data (Separate 15mm 1RB) DSI 4												
Back side	10	QPSK 1_0	23230/782	1:1	0.218	0.170	-0.03	23.34	25.00	1.466	**0.319**	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Left side	10	QPSK 1_0	23230/782	1:1	0.240	0.170	0.05	23.34	25.00	1.466	**0.352**	22.1

(for new report SZCR250100029101)

8.2.10 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record												
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	15	QPSK 1_38	26765/821.5	1:1	0.421	0.279	0.01	20.56	22.00	1.393	0.587	22.2
Left tilted	15	QPSK 1_38	26765/821.5	1:1	0.402	0.244	-0.06	20.56	22.00	1.393	0.560	22.2
Right cheek	15	QPSK 1_38	26765/821.5	1:1	0.653	0.389	0.07	20.56	22.00	1.393	**0.910**	22.2
Right tilted	15	QPSK 1_38	26765/821.5	1:1	0.620	0.357	0.06	20.56	22.00	1.393	0.864	22.2
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.561	0.327	-0.15	20.53	22.00	1.403	0.787	22.2
Right cheek	15	QPSK 1_0	26965/841.5	1:1	0.550	0.322	-0.17	20.50	22.00	1.413	0.777	22.2
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.508	0.271	-0.02	20.53	22.00	1.403	0.713	22.2
Right tilted	15	QPSK 1_0	26965/841.5	1:1	0.508	0.269	-0.11	20.50	22.00	1.413	0.718	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	15	QPSK 36_0	26765/821.5	1:1	0.417	0.275	0.18	20.54	22.00	1.400	0.584	22.2
Left tilted	15	QPSK 36_0	26765/821.5	1:1	0.401	0.243	-0.08	20.54	22.00	1.400	0.561	22.2
Right cheek	15	QPSK 36_0	26765/821.5	1:1	0.606	0.341	-0.12	20.54	22.00	1.400	0.848	22.2
Right tilted	15	QPSK 36_0	26765/821.5	1:1	0.618	0.347	-0.06	20.54	22.00	1.400	0.865	22.2
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.601	0.343	-0.10	20.51	22.00	1.409	0.847	22.2
Right cheek	15	QPSK 36_0	26965/841.5	1:1	0.605	0.346	0.05	20.51	22.00	1.409	0.853	22.2
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.508	0.271	0.00	20.51	22.00	1.409	0.716	22.2
Right tilted	15	QPSK 36_0	26965/841.5	1:1	0.518	0.277	-0.06	20.51	22.00	1.409	0.730	22.2
Head Test Data (100%RB) DSI 2												
Right cheek	15	QPSK 75_0	26765/821.5	1:1	0.629	0.353	0.07	20.51	22.00	1.409	0.886	22.2
Right tilted	15	QPSK 75_0	26765/821.5	1:1	0.483	0.263	-0.07	20.51	22.00	1.409	0.681	22.2
Head Test Data (1RB) DSI 2 with Inter-band UL CA&ENDC												
Left cheek	15	QPSK 1_38	26765/821.5	1:1	0.421	0.279	0.01	20.56	19.00	0.698	0.294	22.2
Left tilted	15	QPSK 1_38	26765/821.5	1:1	0.402	0.244	-0.06	20.56	19.00	0.698	0.281	22.2
Right cheek	15	QPSK 1_38	26765/821.5	1:1	0.653	0.389	0.07	20.56	19.00	0.698	0.456	22.2
Right tilted	15	QPSK 1_38	26765/821.5	1:1	0.620	0.357	0.06	20.56	19.00	0.698	0.433	22.2
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.561	0.327	-0.15	20.53	19.00	0.703	0.394	22.2
Right cheek	15	QPSK 1_0	26965/841.5	1:1	0.550	0.322	-0.17	20.50	19.00	0.708	0.389	22.2
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.508	0.271	-0.02	20.53	19.00	0.703	0.357	22.2
Right tilted	15	QPSK 1_0	26965/841.5	1:1	0.508	0.269	-0.11	20.50	19.00	0.708	0.360	22.2
Head Test Data (50%RB) DSI 2 with Inter-band UL CA&ENDC												
Left cheek	15	QPSK 36_0	26765/821.5	1:1	0.417	0.275	0.18	20.54	19.00	0.701	0.293	22.2
Left tilted	15	QPSK 36_0	26765/821.5	1:1	0.401	0.243	-0.08	20.54	19.00	0.701	0.281	22.2
Right cheek	15	QPSK 36_0	26765/821.5	1:1	0.606	0.341	-0.12	20.54	19.00	0.701	0.425	22.2
Right tilted	15	QPSK 36_0	26765/821.5	1:1	0.618	0.347	-0.06	20.54	19.00	0.701	0.433	22.2
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.601	0.343	-0.10	20.51	19.00	0.706	0.424	22.2
Right cheek	15	QPSK 36_0	26965/841.5	1:1	0.605	0.346	0.05	20.51	19.00	0.706	0.427	22.2
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.508	0.271	0.00	20.51	19.00	0.706	0.359	22.2

Right tilted	15	QPSK 36_0	26965/841.5	1:1	0.518	0.277	-0.06	20.51	19.00	0.706	0.366	22.2
Head Test Data (100%RB) DSI 2 with Inter-band UL CA&ENDC												
Right cheek	15	QPSK 75_0	26765/821.5	1:1	0.629	0.353	0.07	20.51	19.00	0.706	0.444	22.2
Right tilted	15	QPSK 75_0	26765/821.5	1:1	0.483	0.263	-0.07	20.51	19.00	0.706	0.341	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	15	QPSK 1_38	26965/841.5	1:1	0.120	0.078	0.05	23.48	25.00	1.419	0.170	22.2
Back side	15	QPSK 1_38	26965/841.5	1:1	0.166	0.128	0.06	23.48	25.00	1.419	**0.236**	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	15	QPSK 36_18	26865/831.5	1:1	0.100	0.072	-0.17	22.49	24.00	1.416	0.142	22.2
Back side	15	QPSK 36_18	26865/831.5	1:1	0.127	0.092	-0.18	22.49	24.00	1.416	0.180	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	15	QPSK 1_38	26965/841.5	1:1	0.232	0.145	0.02	23.48	25.00	1.419	0.329	22.2
Back side	15	QPSK 1_38	26965/841.5	1:1	0.290	0.185	-0.01	23.48	25.00	1.419	**0.412**	22.2
Left side	15	QPSK 1_38	26965/841.5	1:1	0.099	0.065	-0.05	23.48	25.00	1.419	0.140	22.2
Top side	15	QPSK 1_38	26965/841.5	1:1	0.287	0.173	-0.02	23.48	25.00	1.419	0.407	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	15	QPSK 36_18	26865/831.5	1:1	0.182	0.114	-0.02	22.49	24.00	1.416	0.258	22.2
Back side	15	QPSK 36_18	26865/831.5	1:1	0.241	0.146	0.01	22.49	24.00	1.416	0.341	22.2
Left side	15	QPSK 36_18	26865/831.5	1:1	0.090	0.059	0.17	22.49	24.00	1.416	0.127	22.2
Top side	15	QPSK 36_18	26865/831.5	1:1	0.243	0.146	0.06	22.49	24.00	1.416	0.344	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10 with ENDC												
Front side	15	QPSK 1_38	26965/841.5	1:1	0.232	0.145	0.02	23.48	22.00	0.711	0.165	22.2
Back side	15	QPSK 1_38	26965/841.5	1:1	0.290	0.185	-0.01	23.48	22.00	0.711	0.206	22.2
Left side	15	QPSK 1_38	26965/841.5	1:1	0.099	0.065	-0.05	23.48	22.00	0.711	0.070	22.2
Top side	15	QPSK 1_38	26965/841.5	1:1	0.287	0.173	-0.02	23.48	22.00	0.711	0.204	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10 with ENDC												
Front side	15	QPSK 36_18	26865/831.5	1:1	0.182	0.114	-0.02	22.49	21.00	0.710	0.129	22.2
Back side	15	QPSK 36_18	26865/831.5	1:1	0.241	0.146	0.01	22.49	21.00	0.710	0.171	22.2
Left side	15	QPSK 36_18	26865/831.5	1:1	0.090	0.059	0.17	22.49	21.00	0.710	0.064	22.2
Top side	15	QPSK 36_18	26865/831.5	1:1	0.243	0.146	0.06	22.49	21.00	0.710	0.172	22.2
Ant 31 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.150	0.104	0.08	23.32	25.00	1.472	0.221	22.2
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.083	0.061	0.04	23.32	25.00	1.472	0.122	22.2
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.113	0.081	-0.19	23.32	25.00	1.472	0.166	22.2
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.067	0.050	-0.10	23.32	25.00	1.472	0.099	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	15	QPSK 36_18	26865/831.5	1:1	0.132	0.091	0.09	22.34	24.00	1.466	0.193	22.2
Left tilted	15	QPSK 36_18	26865/831.5	1:1	0.073	0.053	0.14	22.34	24.00	1.466	0.107	22.2
Right cheek	15	QPSK 36_18	26865/831.5	1:1	0.098	0.070	-0.01	22.34	24.00	1.466	0.144	22.2
Right tilted	15	QPSK 36_18	26865/831.5	1:1	0.059	0.044	-0.09	22.34	24.00	1.466	0.086	22.2

Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.115	0.083	0.15	23.32	25.00	1.472	0.169	22.2
Back side	15	QPSK 1_0	26865/831.5	1:1	0.143	0.101	-0.06	23.32	25.00	1.472	0.211	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	15	QPSK 36_18	26865/831.5	1:1	0.100	0.071	0.09	22.34	24.00	1.466	0.147	22.2
Back side	15	QPSK 36_18	26865/831.5	1:1	0.122	0.086	-0.02	22.34	24.00	1.466	0.179	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.128	0.077	-0.07	23.32	25.00	1.472	0.188	22.2
Back side	15	QPSK 1_0	26865/831.5	1:1	0.179	0.111	0.08	23.32	25.00	1.472	0.264	22.2
Left side	15	QPSK 1_0	26865/831.5	1:1	0.138	0.091	0.07	23.32	25.00	1.472	0.203	22.2
Right side	15	QPSK 1_0	26865/831.5	1:1	0.073	0.049	-0.15	23.32	25.00	1.472	0.107	22.2
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.171	0.092	-0.19	23.32	25.00	1.472	0.252	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	15	QPSK 36_18	26865/831.5	1:1	0.116	0.070	-0.06	22.34	24.00	1.466	0.170	22.2
Back side	15	QPSK 36_18	26865/831.5	1:1	0.159	0.099	0.04	22.34	24.00	1.466	0.233	22.2
Left side	15	QPSK 36_18	26865/831.5	1:1	0.124	0.082	0.05	22.34	24.00	1.466	0.182	22.2
Right side	15	QPSK 36_18	26865/831.5	1:1	0.066	0.043	0.00	22.34	24.00	1.466	0.097	22.2
Bottom side	15	QPSK 36_18	26865/831.5	1:1	0.158	0.084	-0.15	22.34	24.00	1.466	0.232	22.2

(for original report SZCR241200494509)

LTE Band 26 SAR Test Record												
Ant 13 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Right cheek	15	QPSK 1_38	26765/821.5	1:1	0.557	0.333	0.09	20.56	22.00	1.393	**0.776**	22.0
Body worn Test data (Separate 15mm 1RB) DSI 4												
Back side	15	QPSK 1_38	26965/841.5	1:1	0.157	0.120	0.04	23.48	25.00	1.419	**0.223**	22.0
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Back side	15	QPSK 1_38	26965/841.5	1:1	0.220	0.160	0.06	23.48	25.00	1.419	**0.312**	22.0

(for new report SZCR250100029101)

8.2.11 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record												
Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.274	0.129	-0.03	19.75	20.50	1.189	0.326	22.5
Left tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.057	0.032	0.18	19.75	20.50	1.189	0.068	22.5
Right cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.609	0.273	0.16	19.75	20.50	1.189	0.724	22.5
Right tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.124	0.064	0.00	19.75	20.50	1.189	0.147	22.5
Right cheek	20	QPSK 1_99	39750/2506	1:1.58	0.449	0.205	0.09	19.52	20.50	1.253	0.563	22.5
Right cheek	20	QPSK 1_50	40620/2593	1:1.58	0.763	0.290	0.08	19.66	20.50	1.213	**0.926**	22.5
Right cheek	20	QPSK 1_50	41055/2636.5	1:1.58	0.529	0.230	0.12	19.59	20.50	1.233	0.652	22.5
Right cheek	20	QPSK 1_0	41490/2680	1:1.58	0.575	0.249	-0.12	19.00	20.50	1.413	0.812	22.5
Right cheek	20	PCC QPSK 1_0	40620/2593	1:1.58	0.720	0.316	0.00	19.49	20.50	1.262	0.909	22.5
		SCC QPSK 1_99	40422/2573.2									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	40185/2549.5	1:1.58	0.311	0.147	-0.04	19.80	20.50	1.175	0.365	22.5
Left tilted	20	QPSK 50_0	40185/2549.5	1:1.58	0.067	0.037	-0.07	19.80	20.50	1.175	0.079	22.5
Right cheek	20	QPSK 50_0	40185/2549.5	1:1.58	0.639	0.287	-0.03	19.80	20.50	1.175	0.751	22.5
Right tilted	20	QPSK 50_0	40185/2549.5	1:1.58	0.126	0.065	-0.04	19.80	20.50	1.175	0.148	22.5
Right cheek	20	QPSK 50_50	39750/2506	1:1.58	0.430	0.199	0.14	19.47	20.50	1.268	0.545	22.5
Right cheek	20	QPSK 50_0	40620/2593	1:1.58	0.703	0.308	0.01	19.69	20.50	1.205	0.847	22.5
Right cheek	20	QPSK 50_0	41055/2636.5	1:1.58	0.552	0.240	-0.18	19.61	20.50	1.227	0.678	22.5
Right cheek	20	QPSK 50_0	41490/2680	1:1.58	0.403	0.174	0.15	19.03	20.50	1.403	0.565	22.5
Head Test Data (100%RB) DSI 2												
Right cheek	20	QPSK 100_0	40185/2549.5	1:1.58	0.685	0.302	0.02	19.73	20.50	1.194	0.818	22.5
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_99	40185/2549.5	1:1.58	0.215	0.108	0.14	24.23	25.00	1.194	0.257	22.5
Back side	20	QPSK 1_99	40185/2549.5	1:1.58	0.394	0.187	-0.17	24.23	25.00	1.194	0.470	22.5
Back side	20	PCC QPSK 1_99	40185/2549.5	1:1.58	0.353	0.177	0.00	23.93	25.00	1.279	0.452	22.5
		SCC QPSK 1_0	40383/2569.3									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_25	40185/2549.5	1:1.58	0.170	0.085	0.05	23.27	24.00	1.183	0.201	22.5
Back side	20	QPSK 50_25	40185/2549.5	1:1.58	0.311	0.147	-0.02	23.27	24.00	1.183	0.368	22.5
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_50	40620/2593	1:1.58	0.145	0.067	-0.01	19.18	20.00	1.208	0.175	22.5
Back side	20	QPSK 1_50	40620/2593	1:1.58	0.273	0.116	-0.05	19.18	20.00	1.208	0.330	22.5
Left side	20	QPSK 1_50	40620/2593	1:1.58	0.484	0.209	0.11	19.18	20.00	1.208	0.585	22.5
Top side	20	QPSK 1_50	40620/2593	1:1.58	0.032	0.011	-0.19	19.18	20.00	1.208	0.039	22.5
Left side	20	PCC QPSK 1_99	40620/2593	1:1.58	0.472	0.200	0.07	19.11	20.00	1.227	0.579	22.5
		SCC QPSK 1_0	40818/2612.8									

Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_25	40620/2593	1:1.58	0.150	0.066	0.19	19.28	20.00	1.180	0.177	22.5
Back side	20	QPSK 50_25	40620/2593	1:1.58	0.279	0.117	0.14	19.28	20.00	1.180	0.329	22.5
Left side	20	QPSK 50_25	40620/2593	1:1.58	0.506	0.210	0.09	19.28	20.00	1.180	**0.597**	22.5
Top side	20	QPSK 50_25	40620/2593	1:1.58	0.023	0.014	-0.07	19.28	20.00	1.180	0.027	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 off DSI 4												
Left side 15mm	20	QPSK 1_99	40185/2549.5	1:1	0.538	0.264	0.14	24.23	25.00	1.194	0.315	22.5
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off DSI 4												
Left side 15mm	20	QPSK 50_25	40185/2549.5	1:1	0.586	0.261	-0.13	23.27	24.00	1.183	0.309	22.5
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Left side	20	QPSK 1_0	40620/2593	1:1	3.240	1.150	0.18	20.35	21.00	1.161	1.336	22.5
Left side	20	PCC QPSK 1_0	40620/2593	1:1.58	3.440	1.060	0.09	20.10	21.00	1.230	1.304	22.5
		SCC QPSK 1_99	40422/2573.2									
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Left side	20	QPSK 50_0	40620/2593	1:1	3.300	1.170	-0.10	20.30	21.00	1.175	1.375	22.5
Ant 13 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.174	0.090	-0.10	17.86	18.50	1.159	0.202	22.5
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.238	0.116	-0.09	17.86	18.50	1.159	0.276	22.5
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.410	0.183	0.18	17.86	18.50	1.159	0.475	22.5
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.544	0.229	-0.15	17.86	18.50	1.159	0.630	22.5
Right tilted	20	QPSK 1_0	39750/2506	1:1.58	0.525	0.223	-0.06	17.33	18.50	1.309	0.687	22.5
Right tilted	20	QPSK 1_99	40185/2549.5	1:1.58	0.597	0.254	-0.06	17.64	18.50	1.219	0.728	22.5
Right tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.523	0.226	-0.18	17.62	18.50	1.225	0.640	22.5
Right tilted	20	QPSK 1_0	41490/2680	1:1.58	0.449	0.198	-0.03	17.50	18.50	1.259	0.565	22.5
Right tilted	20	PCC QPSK 1_99	40185/2549.5	1:1.58	0.526	0.222	0.01	17.52	18.50	1.253	0.659	22.5
		SCC QPSK 1_0	40383/2569.3									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_25	40620/2593	1:1.58	0.173	0.091	0.15	17.95	18.50	1.135	0.196	22.5
Left tilted	20	QPSK 50_25	40620/2593	1:1.58	0.242	0.119	0.18	17.95	18.50	1.135	0.275	22.5
Right cheek	20	QPSK 50_25	40620/2593	1:1.58	0.411	0.185	-0.06	17.95	18.50	1.135	0.466	22.5
Right tilted	20	QPSK 50_25	40620/2593	1:1.58	0.554	0.227	0.09	17.95	18.50	1.135	0.629	22.5
Right tilted	20	QPSK 50_0	39750/2506	1:1.58	0.540	0.230	-0.13	17.33	18.50	1.309	0.707	22.5
Right tilted	20	QPSK 50_50	40185/2549.5	1:1.58	0.616	0.261	0.05	17.62	18.50	1.225	0.754	22.5
Right tilted	20	QPSK 50_50	41055/2636.5	1:1.58	0.482	0.211	0.15	17.63	18.50	1.222	0.589	22.5
Right tilted	20	QPSK 50_0	41490/2680	1:1.58	0.436	0.192	0.11	17.57	18.50	1.239	0.540	22.5

Head Test Data (100%RB) DSI 2												
Right tilted	20	QPSK 100_0	40620/2593	1:1.58	0.543	0.228	0.10	17.80	18.50	1.175	0.638	22.5
Head Test Data (1RB) DSI 2 with ENDC												
Left cheek	20	QPSK 1_0	40620/2593	1:1.58	0.174	0.090	-0.10	17.86	15.50	0.581	0.101	22.5
Left tilted	20	QPSK 1_0	40620/2593	1:1.58	0.238	0.116	-0.09	17.86	15.50	0.581	0.138	22.5
Right cheek	20	QPSK 1_0	40620/2593	1:1.58	0.410	0.183	0.18	17.86	15.50	0.581	0.238	22.5
Right tilted	20	QPSK 1_0	40620/2593	1:1.58	0.544	0.229	-0.15	17.86	15.50	0.581	0.316	22.5
Right tilted	20	QPSK 1_0	39750/2506	1:1.58	0.525	0.223	-0.06	17.33	15.50	0.656	0.344	22.5
Right tilted	20	QPSK 1_99	40185/2549.5	1:1.58	0.597	0.254	-0.06	17.64	15.50	0.611	0.365	22.5
Right tilted	20	QPSK 1_0	41055/2636.5	1:1.58	0.523	0.226	-0.18	17.62	15.50	0.614	0.321	22.5
Right tilted	20	QPSK 1_0	41490/2680	1:1.58	0.449	0.198	-0.03	17.50	15.50	0.631	0.283	22.5
Head Test Data (50%RB) DSI 2 with ENDC												
Left cheek	20	QPSK 50_25	40620/2593	1:1.58	0.173	0.091	0.15	17.95	15.50	0.569	0.098	22.5
Left tilted	20	QPSK 50_25	40620/2593	1:1.58	0.242	0.119	0.18	17.95	15.50	0.569	0.138	22.5
Right cheek	20	QPSK 50_25	40620/2593	1:1.58	0.411	0.185	-0.06	17.95	15.50	0.569	0.234	22.5
Right tilted	20	QPSK 50_25	40620/2593	1:1.58	0.554	0.227	0.09	17.95	15.50	0.569	0.315	22.5
Right tilted	20	QPSK 50_0	39750/2506	1:1.58	0.540	0.230	-0.13	17.33	15.50	0.656	0.354	22.5
Right tilted	20	QPSK 50_50	40185/2549.5	1:1.58	0.616	0.261	0.05	17.62	15.50	0.614	0.378	22.5
Right tilted	20	QPSK 50_50	41055/2636.5	1:1.58	0.482	0.211	0.15	17.63	15.50	0.612	0.295	22.5
Right tilted	20	QPSK 50_0	41490/2680	1:1.58	0.436	0.192	0.11	17.57	15.50	0.621	0.271	22.5
Head Test Data (100%RB) DSI 2 with ENDC												
Right tilted	20	QPSK 100_0	40620/2593	1:1.58	0.543	0.228	0.10	17.80	15.50	0.589	0.320	22.5
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	40185/2549.5	1:1.58	0.126	0.068	-0.08	23.15	23.50	1.084	0.137	22.5
Back side	20	QPSK 1_50	40185/2549.5	1:1.58	0.440	0.211	-0.03	23.15	23.50	1.084	0.477	22.5
Back side	20	PCC QPSK 1_99	40185/2549.5	1:1.58	0.382	0.188	0.01	22.62	23.50	1.225	0.468	22.5
		SCC QPSK 1_0	40383/2569.3									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_0	40185/2549.5	1:1.58	0.126	0.067	-0.09	23.10	23.50	1.096	0.138	22.5
Back side	20	QPSK 50_0	40185/2549.5	1:1.58	0.477	0.239	0.01	23.10	23.50	1.096	**0.523**	22.5
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.112	0.057	0.13	17.86	18.50	1.159	0.130	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.377	0.169	-0.19	17.86	18.50	1.159	0.437	22.5
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.087	0.047	0.11	17.86	18.50	1.159	0.101	22.5
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.406	0.184	-0.10	17.86	18.50	1.159	0.470	22.5
Top side	20	PCC QPSK 1_0	40620/2593	1:1.58	0.379	0.173	0.10	17.71	18.50	1.199	0.455	22.5
		SCC QPSK 1_99	40422/2573.2									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_25	40620/2593	1:1.58	0.110	0.056	0.01	17.95	18.50	1.135	0.125	22.5
Back side	20	QPSK 50_25	40620/2593	1:1.58	0.400	0.169	0.14	17.95	18.50	1.135	0.454	22.5
Left side	20	QPSK 50_25	40620/2593	1:1.58	0.071	0.039	0.13	17.95	18.50	1.135	0.081	22.5
Top side	20	QPSK 50_25	40620/2593	1:1.58	0.523	0.227	-0.05	17.95	18.50	1.135	0.594	22.5
Hotspot Test data (Separate 10mm 1RB) DSI 10 with ENDC												
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.112	0.057	0.13	17.86	15.50	0.581	0.065	22.5

Back side	20	QPSK 1_0	40620/2593	1:1.58	0.377	0.169	-0.19	17.86	15.50	0.581	0.219	22.5
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.087	0.047	0.11	17.86	15.50	0.581	0.051	22.5
Top side	20	QPSK 1_0	40620/2593	1:1.58	0.406	0.184	-0.10	17.86	15.50	0.581	0.236	22.5
Hotspot Test data (Separate 10mm 50%RB) DSI 10 with ENDC												
Front side	20	QPSK 50_25	40620/2593	1:1.58	0.110	0.056	0.01	17.95	15.50	0.569	0.063	22.5
Back side	20	QPSK 50_25	40620/2593	1:1.58	0.400	0.169	0.14	17.95	15.50	0.569	0.228	22.5
Left side	20	QPSK 50_25	40620/2593	1:1.58	0.071	0.039	0.13	17.95	15.50	0.569	0.040	22.5
Top side	20	QPSK 50_25	40620/2593	1:1.58	0.523	0.227	-0.05	17.95	15.50	0.569	0.298	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 off DSI 4												
Back side 13mm	20	QPSK 1_50	40185/2549.5	1:1	0.724	0.325	-0.14	23.15	23.50	1.084	0.352	22.5
Top side 14mm	20	QPSK 1_50	40185/2549.5	1:1	0.640	0.300	-0.09	23.15	23.50	1.084	0.325	22.5
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off DSI 4												
Back side 13mm	20	QPSK 50_0	40185/2549.5	1:1	0.718	0.324	-0.17	23.10	23.50	1.096	0.355	22.5
Top side 14mm	20	QPSK 50_0	40185/2549.5	1:1	0.652	0.305	-0.06	23.10	23.50	1.096	0.334	22.5
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1_0	40620/2593	1:1	1.950	0.852	-0.16	19.85	20.50	1.161	0.990	22.5
Top side	20	QPSK 1_0	40620/2593	1:1	4.420	1.780	-0.18	19.85	20.50	1.161	2.067	22.5
Top side	20	QPSK 1_99	39750/2506	1:1	4.270	1.710	0.07	19.25	20.50	1.334	2.280	22.5
Top side	20	QPSK 1_99	40185/2549.5	1:1	4.230	1.700	0.13	19.31	20.50	1.315	2.236	22.5
Top side	20	QPSK 1_50	41055/2636.5	1:1	3.970	1.600	-0.09	19.53	20.50	1.250	2.000	22.5
Top side	20	QPSK 1_50	41490/2680	1:1	3.320	1.340	0.11	19.49	20.50	1.262	1.691	22.5
Top side	20	PCC QPSK 1_99	39750/2506	1:1.58	5.160	1.770	0.01	19.62	20.50	1.225	2.168	22.5
		SCC QPSK 1_0	39948/2525.8									
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Back side	20	QPSK 50_0	40620/2593	1:1	1.800	0.785	-0.12	19.82	20.50	1.169	0.918	22.5
Top side	20	QPSK 50_0	40620/2593	1:1	3.320	1.350	0.04	19.82	20.50	1.169	1.579	22.5
Top side	20	QPSK 50_0	39750/2506	1:1	4.310	1.730	-0.03	19.32	20.50	1.312	2.270	22.5
Top side	20	QPSK 50_0	40185/2549.5	1:1	5.190	1.770	-0.09	19.35	20.50	1.303	**2.307**	22.5
Top side	20	QPSK 50_25	41055/2636.5	1:1	4.090	1.640	0.07	19.60	20.50	1.230	2.018	22.5
Top side	20	QPSK 50_25	41490/2680	1:1	3.390	1.370	-0.01	19.51	20.50	1.256	1.721	22.5
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on DSI 5												
Top side	20	QPSK 100_0	40620/2593	1:1	4.570	1.850	-0.11	19.63	20.50	1.222	2.260	22.5
Ant 31 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.142	0.082	0.12	23.96	24.50	1.132	0.161	22.5
Left tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.100	0.057	0.14	23.96	24.50	1.132	0.113	22.5

Right cheek	20	QPSK 1_0	40185/2549.5	1:1.58	0.269	0.149	0.17	23.96	24.50	1.132	0.305	22.5
Right tilted	20	QPSK 1_0	40185/2549.5	1:1.58	0.112	0.061	-0.06	23.96	24.50	1.132	0.127	22.5
Right cheek	20	PCC QPSK 1_99	40185/2549.5	1:1.58	0.250	0.138	0.02	23.81	24.50	1.172	0.293	22.5
		SCC QPSK 1_0	40383/2569.3									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	41055/2636.5	1:1.58	0.081	0.047	0.03	22.95	23.50	1.135	0.092	22.5
Left tilted	20	QPSK 50_0	41055/2636.5	1:1.58	0.060	0.032	0.17	22.95	23.50	1.135	0.068	22.5
Right cheek	20	QPSK 50_0	41055/2636.5	1:1.58	0.153	0.083	0.13	22.95	23.50	1.135	0.174	22.5
Right tilted	20	QPSK 50_0	41055/2636.5	1:1.58	0.055	0.030	-0.17	22.95	23.50	1.135	0.062	22.5
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	39750/2506	1:1.58	0.127	0.073	-0.07	22.39	23.50	1.291	0.164	22.5
Back side	20	QPSK 1_50	39750/2506	1:1.58	0.123	0.069	-0.11	22.39	23.50	1.291	0.159	22.5
Front side	20	PCC QPSK 1_99	39750/2506	1:1.58	0.101	0.058	0.00	22.39	23.50	1.291	0.130	22.5
		SCC QPSK 1_0	39948/2525.8									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_25	40185/2549.5	1:1.58	0.133	0.077	0.04	22.57	23.50	1.239	0.165	22.5
Back side	20	QPSK 50_25	40185/2549.5	1:1.58	0.169	0.089	0.18	22.57	23.50	1.239	0.209	22.5
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	40620/2593	1:1.58	0.169	0.092	-0.10	20.96	22.00	1.271	0.215	22.5
Back side	20	QPSK 1_0	40620/2593	1:1.58	0.175	0.089	0.17	20.96	22.00	1.271	0.222	22.5
Left side	20	QPSK 1_0	40620/2593	1:1.58	0.031	0.017	-0.17	20.96	22.00	1.271	0.039	22.5
Right side	20	QPSK 1_0	40620/2593	1:1.58	0.107	0.056	-0.06	20.96	22.00	1.271	0.136	22.5
Bottom side	20	QPSK 1_0	40620/2593	1:1.58	0.171	0.077	-0.10	20.96	22.00	1.271	0.217	22.5
Back side	20	PCC QPSK 1_0	40620/2593	1:1.58	0.141	0.074	0.02	20.81	22.00	1.315	0.185	22.5
		SCC QPSK 1_99	40422/2573.2									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	40620/2593	1:1.58	0.170	0.089	0.18	20.94	22.00	1.276	0.217	22.5
Back side	20	QPSK 50_0	40620/2593	1:1.58	0.173	0.093	0.07	20.94	22.00	1.276	0.221	22.5
Left side	20	QPSK 50_0	40620/2593	1:1.58	0.057	0.016	0.05	20.94	22.00	1.276	0.073	22.5
Right side	20	QPSK 50_0	40620/2593	1:1.58	0.102	0.055	-0.17	20.94	22.00	1.276	0.130	22.5
Bottom side	20	QPSK 50_0	40620/2593	1:1.58	0.171	0.077	0.10	20.94	22.00	1.276	0.218	22.5

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LTE Band 41 SAR Test Record												
Ant 11 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Right cheek	20	QPSK 1_50	40620/2593	1:1.58	0.693	0.267	0.02	19.66	20.50	1.213	**0.841**	22.5
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Left side	20	QPSK 50_25	40620/2593	1:1.58	0.438	0.187	0.07	19.28	20.00	1.180	**0.517**	22.5
Ant 13 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.(℃)**
Body worn Test data (Separate 15mm 1RB) DSI 4												
Back side	20	QPSK 50_0	40185/2549.5	1:1.58	0.438	0.225	0.03	23.10	23.50	1.096	**0.480**	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 50%RB) Sensor on DSI 5												
Top side	20	QPSK 50_0	40185/2549.5	1:1	4.730	1.610	-0.08	19.35	20.50	1.303	**2.098**	22.5

(for new report SZCR250100029101)

8.2.12 SAR Result of LTE Band 66

LTE Band 66 SAR Test Record												
Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_99	132072/1720	1:1	0.343	0.191	-0.13	19.14	19.90	1.191	0.409	22.3
Left tilted	20	QPSK 1_99	132072/1720	1:1	0.423	0.223	-0.15	19.14	19.90	1.191	0.504	22.3
Right cheek	20	QPSK 1_99	132072/1720	1:1	0.517	0.270	-0.02	19.14	19.90	1.191	0.616	22.3
Right tilted	20	QPSK 1_99	132072/1720	1:1	0.577	0.289	-0.17	19.14	19.90	1.191	0.687	22.3
Right tilted	20	PCC QPSK 1_99	132072/1720	1:1	0.519	0.269	0.05	19.09	19.90	1.205	0.625	22.3
		SCC QPSK 1_0	132270/1739.8									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_50	132572/1770	1:1	0.349	0.191	-0.17	19.15	19.90	1.189	0.415	22.3
Left tilted	20	QPSK 50_50	132572/1770	1:1	0.443	0.232	0.09	19.15	19.90	1.189	0.527	22.3
Right cheek	20	QPSK 50_50	132572/1770	1:1	0.535	0.278	-0.01	19.15	19.90	1.189	0.636	22.3
Right tilted	20	QPSK 50_50	132572/1770	1:1	0.609	0.304	0.05	19.15	19.90	1.189	0.724	22.3
Head Test Data (1RB) DSI 2 with Inter-band UL CA												
Left cheek	20	QPSK 1_99	132072/1720	1:1	0.343	0.191	-0.13	19.14	16.90	0.597	0.205	22.3
Left tilted	20	QPSK 1_99	132072/1720	1:1	0.423	0.223	-0.15	19.14	16.90	0.597	0.253	22.3
Right cheek	20	QPSK 1_99	132072/1720	1:1	0.517	0.270	-0.02	19.14	16.90	0.597	0.309	22.3
Right tilted	20	QPSK 1_99	132072/1720	1:1	0.577	0.289	-0.17	19.14	16.90	0.597	0.344	22.3
Head Test Data (50%RB) DSI 2 with Inter-band UL CA												
Left cheek	20	QPSK 50_50	132572/1770	1:1	0.349	0.191	-0.17	19.15	16.90	0.596	0.208	22.3
Left tilted	20	QPSK 50_50	132572/1770	1:1	0.443	0.232	0.09	19.15	16.90	0.596	0.264	22.3
Right cheek	20	QPSK 50_50	132572/1770	1:1	0.535	0.278	-0.01	19.15	16.90	0.596	0.319	22.3
Right tilted	20	QPSK 50_50	132572/1770	1:1	0.609	0.304	0.05	19.15	16.90	0.596	0.363	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	132072/1720	1:1	0.228	0.121	0.09	24.20	24.90	1.175	0.268	22.3
Back side	20	QPSK 1_50	132072/1720	1:1	0.339	0.181	-0.15	24.20	24.90	1.175	0.398	22.3
Back side	20	PCC QPSK 1_99	132072/1720	1:1	0.327	0.176	0.02	24.13	24.90	1.194	0.390	22.3
		SCC QPSK 1_0	132270/1739.8									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_50	132072/1720	1:1	0.186	0.092	-0.08	23.17	23.90	1.183	0.220	22.3
Back side	20	QPSK 50_50	132072/1720	1:1	0.279	0.147	-0.04	23.17	23.90	1.183	0.330	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_99	132072/1720	1:1	0.156	0.079	-0.18	19.14	19.90	1.191	0.186	22.3
Back side	20	QPSK 1_99	132072/1720	1:1	0.262	0.129	0.13	19.14	19.90	1.191	0.312	22.3
Left side	20	QPSK 1_99	132072/1720	1:1	0.372	0.178	-0.17	19.14	19.90	1.191	0.443	22.3
Top side	20	QPSK 1_99	132072/1720	1:1	0.006	0.002	-0.08	19.14	19.90	1.191	0.007	22.3
Left side	20	PCC QPSK 1_99	132072/1720	1:1	0.368	0.174	0.07	19.10	19.90	1.202	0.442	22.3
		SCC QPSK 1_0	132270/1739.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												

Front side	20	QPSK 50_50	132572/1770	1:1	0.160	0.082	-0.11	19.15	19.90	1.189	0.190	22.3
Back side	20	QPSK 50_50	132572/1770	1:1	0.260	0.129	-0.10	19.15	19.90	1.189	0.309	22.3
Left side	20	QPSK 50_50	132572/1770	1:1	0.433	0.194	-0.13	19.15	19.90	1.189	0.515	22.3
Top side	20	QPSK 50_50	132572/1770	1:1	0.007	0.003	-0.03	19.15	19.90	1.189	0.008	22.3
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 off DSI 4												
Left side 15mm	20	QPSK 1_50	132072/1720	1:1	0.471	0.246	0.01	24.20	24.90	1.175	0.289	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off DSI 4												
Left side 15mm	20	QPSK 50_50	132072/1720	1:1	0.383	0.201	-0.09	23.17	23.90	1.183	0.238	22.3
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Left side	20	QPSK 1_99	132072/1720	1:1	4.100	1.660	0.08	20.65	21.40	1.189	1.973	22.3
Left side	20	QPSK 1_99	132322/1745	1:1	4.200	1.680	-0.18	20.45	21.40	1.245	2.091	22.3
Left side	20	QPSK 1_99	132572/1770	1:1	4.160	1.650	-0.15	20.60	21.40	1.202	1.984	22.3
Left side	20	PCC QPSK 1_99	132322/1745	1:1	4.450	1.690	0.01	20.64	21.40	1.191	2.013	22.3
		SCC QPSK 1_0	132520/1764.8									
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Left side	20	QPSK 50_50	132572/1770	1:1	4.440	1.770	-0.09	20.68	21.40	1.180	2.089	22.3
Left side	20	QPSK 50_25	132072/1720	1:1	4.200	1.780	0.17	20.61	21.40	1.199	2.135	22.3
Left side	20	QPSK 50_25	132322/1745	1:1	4.260	1.730	-0.12	20.50	21.40	1.230	2.128	22.3
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on DSI 5												
Left side	20	QPSK 100_0	132572/1770	1:1	4.570	1.780	0.04	20.59	21.40	1.205	2.145	22.3
Ant 13 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_99	132322/1745	1:1	0.318	0.180	-0.16	16.33	17.50	1.309	0.416	22.3
Left tilted	20	QPSK 1_99	132322/1745	1:1	0.379	0.206	-0.19	16.33	17.50	1.309	0.496	22.3
Right cheek	20	QPSK 1_99	132322/1745	1:1	0.545	0.274	-0.15	16.33	17.50	1.309	0.714	22.3
Right tilted	20	QPSK 1_99	132322/1745	1:1	0.652	0.293	0.00	16.33	17.50	1.309	0.854	22.3
Right tilted	20	QPSK 1_50	132072/1720	1:1	0.635	0.294	-0.10	16.31	17.50	1.315	0.835	22.3
Right tilted	20	QPSK 1_50	132572/1770	1:1	0.705	0.329	0.13	16.28	17.50	1.324	0.934	22.3
Right tilted	20	PCC QPSK 1_0	132572/1770	1:1	0.574	0.289	0.01	15.76	17.50	1.493	0.857	22.3
		SCC QPSK 1_99	132374/1750.2									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_50	132322/1745	1:1	0.332	0.187	0.12	16.37	17.50	1.297	0.431	22.3
Left tilted	20	QPSK 50_50	132322/1745	1:1	0.393	0.214	0.17	16.37	17.50	1.297	0.510	22.3
Right cheek	20	QPSK 50_50	132322/1745	1:1	0.562	0.283	-0.04	16.37	17.50	1.297	0.729	22.3
Right tilted	20	QPSK 50_50	132322/1745	1:1	0.672	0.313	0.13	16.37	17.50	1.297	0.872	22.3
Right tilted	20	QPSK 50_25	132072/1720	1:1	0.639	0.305	0.19	16.27	17.50	1.327	0.848	22.3
Right tilted	20	QPSK 50_0	132572/1770	1:1	0.763	0.351	-0.02	16.36	17.50	1.300	**0.992**	22.3
Head Test Data (100%RB) DSI 2												
Right tilted	20	QPSK 100_0	132072/1720	1:1	0.583	0.285	0.05	16.28	17.50	1.324	0.772	22.3
Head Test Data (1RB) DSI 2 with Inter-band UL CA&ENDC												

Left cheek	20	QPSK 1_99	132322/1745	1:1	0.318	0.180	-0.16	16.33	14.50	0.656	0.209	22.3
Left tilted	20	QPSK 1_99	132322/1745	1:1	0.379	0.206	-0.19	16.33	14.50	0.656	0.249	22.3
Right cheek	20	QPSK 1_99	132322/1745	1:1	0.545	0.274	-0.15	16.33	14.50	0.656	0.358	22.3
Right tilted	20	QPSK 1_99	132322/1745	1:1	0.652	0.293	0.00	16.33	14.50	0.656	0.428	22.3
Right tilted	20	QPSK 1_50	132072/1720	1:1	0.635	0.294	-0.10	16.31	14.50	0.659	0.419	22.3
Right tilted	20	QPSK 1_50	132572/1770	1:1	0.705	0.329	0.13	16.28	14.50	0.664	0.468	22.3
Head Test Data (50%RB) DSI 2 with Inter-band UL CA&ENDC												
Left cheek	20	QPSK 50_50	132322/1745	1:1	0.332	0.187	0.12	16.37	14.50	0.650	0.216	22.3
Left tilted	20	QPSK 50_50	132322/1745	1:1	0.393	0.214	0.17	16.37	14.50	0.650	0.256	22.3
Right cheek	20	QPSK 50_50	132322/1745	1:1	0.562	0.283	-0.04	16.37	14.50	0.650	0.365	22.3
Right tilted	20	QPSK 50_50	132322/1745	1:1	0.672	0.313	0.13	16.37	14.50	0.650	0.437	22.3
Right tilted	20	QPSK 50_25	132072/1720	1:1	0.639	0.305	0.19	16.27	14.50	0.665	0.425	22.3
Right tilted	20	QPSK 50_0	132572/1770	1:1	0.763	0.351	-0.02	16.36	14.50	0.652	0.497	22.3
Head Test Data (100%RB) DSI 2 with Inter-band UL CA&ENDC												
Right tilted	20	QPSK 100_0	132072/1720	1:1	0.583	0.285	0.05	16.28	14.50	0.664	0.387	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_99	132322/1745	1:1	0.361	0.206	0.13	23.68	25.00	1.355	0.489	22.3
Back side	20	QPSK 1_99	132322/1745	1:1	0.434	0.263	-0.08	23.68	25.00	1.355	**0.588**	22.3
Back side	20	PCC QPSK 1_0	132322/1745	1:1	0.418	0.241	0.01	23.53	25.00	1.403	0.586	22.3
		SCC QPSK 1_99	132124/1725.2									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_50	132322/1745	1:1	0.303	0.172	-0.16	22.74	24.00	1.337	0.405	22.3
Back side	20	QPSK 50_50	132322/1745	1:1	0.387	0.219	0.01	22.74	24.00	1.337	0.517	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4 with ENDC												
Front side	20	QPSK 1_99	132322/1745	1:1	0.361	0.206	0.13	23.68	22.00	0.679	0.245	22.3
Back side	20	QPSK 1_99	132322/1745	1:1	0.434	0.263	-0.08	23.68	22.00	0.679	0.295	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4 with ENDC												
Front side	20	QPSK 50_50	132322/1745	1:1	0.303	0.172	-0.16	22.74	21.00	0.670	0.203	22.3
Back side	20	QPSK 50_50	132322/1745	1:1	0.387	0.219	0.01	22.74	21.00	0.670	0.259	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_99	132322/1745	1:1	0.272	0.142	-0.04	19.24	20.50	1.337	0.364	22.3
Back side	20	QPSK 1_99	132322/1745	1:1	0.328	0.179	0.01	19.24	20.50	1.337	0.438	22.3
Left side	20	QPSK 1_99	132322/1745	1:1	0.069	0.041	-0.12	19.24	20.50	1.337	0.092	22.3
Top side	20	QPSK 1_99	132322/1745	1:1	0.427	0.208	0.05	19.24	20.50	1.337	0.571	22.3
Top side	20	PCC QPSK 1_99	132322/1745	1:1	0.403	0.216	0.00	19.01	20.50	1.409	0.568	22.3
		SCC QPSK 1_0	132520/1764.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_50	132322/1745	1:1	0.273	0.141	0.18	19.25	20.50	1.334	0.364	22.3
Back side	20	QPSK 50_50	132322/1745	1:1	0.323	0.177	-0.03	19.25	20.50	1.334	0.431	22.3
Left side	20	QPSK 50_50	132322/1745	1:1	0.065	0.038	0.11	19.25	20.50	1.334	0.087	22.3
Top side	20	QPSK 50_50	132322/1745	1:1	0.456	0.235	0.02	19.25	20.50	1.334	**0.608**	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10 with ENDC												
Front side	20	QPSK 1_99	132322/1745	1:1	0.272	0.142	-0.04	19.24	17.50	0.670	0.182	22.3
Back side	20	QPSK 1_99	132322/1745	1:1	0.328	0.179	0.01	19.24	17.50	0.670	0.220	22.3

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Left side	20	QPSK 1_99	132322/1745	1:1	0.069	0.041	-0.12	19.24	17.50	0.670	0.046	22.3
Top side	20	QPSK 1_99	132322/1745	1:1	0.427	0.208	0.05	19.24	17.50	0.670	0.286	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10 with ENDC												
Front side	20	QPSK 50_50	132322/1745	1:1	0.273	0.141	0.18	19.25	17.50	0.668	0.182	22.3
Back side	20	QPSK 50_50	132322/1745	1:1	0.323	0.177	-0.03	19.25	17.50	0.668	0.216	22.3
Left side	20	QPSK 50_50	132322/1745	1:1	0.065	0.038	0.11	19.25	17.50	0.668	0.043	22.3
Top side	20	QPSK 50_50	132322/1745	1:1	0.456	0.235	0.02	19.25	17.50	0.668	0.305	22.3
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 off DSI 4												
Back side 13mm	20	QPSK 1_99	132322/1745	1:1	0.676	0.375	0.00	23.68	25.00	1.355	0.508	22.3
Top side 14mm	20	QPSK 1_99	132322/1745	1:1	0.831	0.426	0.15	23.68	25.00	1.355	0.577	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off DSI 4												
Back side 13mm	20	QPSK 50_50	132322/1745	1:1	0.546	0.304	0.12	22.74	24.00	1.337	0.406	22.3
Top side 14mm	20	QPSK 50_50	132322/1745	1:1	0.686	0.351	-0.11	22.74	24.00	1.337	0.469	22.3
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1_50	132322/1745	1:1	1.070	0.556	0.01	20.24	22.00	1.500	0.834	22.3
Top side	20	QPSK 1_50	132322/1745	1:1	4.010	1.490	-0.17	20.24	22.00	1.500	2.235	22.3
Top side	20	QPSK 1_50	132072/1720	1:1	3.990	1.480	0.06	20.18	22.00	1.521	2.250	22.3
Top side	20	QPSK 1_50	132572/1770	1:1	4.010	1.480	-0.14	20.11	22.00	1.545	2.287	22.3
Top side	20	PCC QPSK 1_0	132572/1770	1:1	4.220	1.530	0.09	20.42	22.00	1.439	2.201	22.3
		SCC QPSK 1_99	132374/1750.2									
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Back side	20	QPSK 50_25	132322/1745	1:1	1.070	0.559	-0.07	20.24	22.00	1.500	0.838	22.3
Top side	20	QPSK 50_25	132322/1745	1:1	4.100	1.520	0.04	20.24	22.00	1.500	2.280	22.3
Top side	20	QPSK 50_50	132072/1720	1:1	4.050	1.500	-0.06	20.19	22.00	1.517	2.276	22.3
Top side	20	QPSK 50_50	132572/1770	1:1	4.160	1.600	0.08	20.14	22.00	1.535	**2.455**	22.3
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Top side	20	QPSK 100_0	132072/1720	1:1	4.070	1.500	0.14	20.17	22.00	1.524	2.286	22.3
Ant 31 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_99	132072/1720	1:1	0.091	0.006	0.16	24.10	24.90	1.202	0.109	22.3
Left tilted	20	QPSK 1_99	132072/1720	1:1	0.070	0.042	0.08	24.10	24.90	1.202	0.084	22.3
Right cheek	20	QPSK 1_99	132072/1720	1:1	0.062	0.039	-0.01	24.10	24.90	1.202	0.075	22.3
Right tilted	20	QPSK 1_99	132072/1720	1:1	0.078	0.046	0.16	24.10	24.90	1.202	0.094	22.3
Left cheek	20	PCC QPSK 1_99	132072/1720	1:1	0.088	0.054	0.01	24.11	24.90	1.199	0.106	22.3
		SCC QPSK 1_0	132270/1739.8									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_50	132572/1770	1:1	0.118	0.074	-0.16	23.18	23.90	1.180	0.139	22.3
Left tilted	20	QPSK 50_50	132572/1770	1:1	0.077	0.046	0.12	23.18	23.90	1.180	0.091	22.3
Right cheek	20	QPSK 50_50	132572/1770	1:1	0.078	0.048	-0.18	23.18	23.90	1.180	0.092	22.3
Right tilted	20	QPSK 50_50	132572/1770	1:1	0.085	0.049	-0.04	23.18	23.90	1.180	0.100	22.3

Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	132322/1745	1:1	0.097	0.059	0.11	20.16	20.90	1.186	0.115	22.3
Back side	20	QPSK 1_50	132322/1745	1:1	0.164	0.098	-0.01	20.16	20.90	1.186	0.194	22.3
Back side	20	PCC QPSK 1_0	132322/1745	1:1	0.096	0.056	0.06	20.16	20.90	1.186	0.114	22.3
		SCC QPSK 1_99	132124/1725.2									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_50	132322/1745	1:1	0.105	0.066	0.17	20.26	20.90	1.159	0.122	22.3
Back side	20	QPSK 50_50	132322/1745	1:1	0.175	0.103	0.00	20.26	20.90	1.159	0.203	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_50	132322/1745	1:1	0.142	0.083	0.06	19.17	19.90	1.183	0.168	22.3
Back side	20	QPSK 1_50	132322/1745	1:1	0.249	0.143	-0.01	19.17	19.90	1.183	0.295	22.3
Left side	20	QPSK 1_50	132322/1745	1:1	0.048	0.018	-0.03	19.17	19.90	1.183	0.057	22.3
Right side	20	QPSK 1_50	132322/1745	1:1	0.060	0.033	0.04	19.17	19.90	1.183	0.071	22.3
Bottom side	20	QPSK 1_50	132322/1745	1:1	0.275	0.146	-0.06	19.17	19.90	1.183	0.325	22.3
Bottom side	20	PCC QPSK 1_0	132322/1745	1:1	0.256	0.140	0.05	19.05	19.90	1.216	0.311	22.3
		SCC QPSK 1_99	132124/1725.2									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_50	132322/1745	1:1	0.149	0.089	0.15	19.25	19.90	1.161	0.173	22.3
Back side	20	QPSK 50_50	132322/1745	1:1	0.267	0.152	0.14	19.25	19.90	1.161	0.310	22.3
Left side	20	QPSK 50_50	132322/1745	1:1	0.006	0.003	0.07	19.25	19.90	1.161	0.007	22.3
Right side	20	QPSK 50_50	132322/1745	1:1	0.064	0.035	0.09	19.25	19.90	1.161	0.074	22.3
Bottom side	20	QPSK 50_50	132322/1745	1:1	0.298	0.156	0.17	19.25	19.90	1.161	0.346	22.3

(for original report SZCR241200494509)

LTE Band 66 SAR Test Record												
Ant 13 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (50%RB) DSI 2												
Right tilted	20	QPSK 50_0	132572/1770	1:1	0.661	0.301	0.11	16.36	17.50	1.300	**0.859**	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Back side	20	QPSK 1_99	132322/1745	1:1	0.495	0.293	-0.07	23.68	25.00	1.355	**0.671**	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Top side	20	QPSK 50_50	132322/1745	1:1	0.412	0.214	-0.09	19.25	20.50	1.334	**0.549**	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 50%RB) Sensor on DSI 5												
Top side	20	QPSK 50_50	132572/1770	1:1	3.410	1.310	0.03	20.14	22.00	1.535	**2.010**	22.2

(for new report SZCR250100029101)

8.2.13 SAR Result of NR Band n2

N2 SAR Test Record												
Ant 11 Test Record with ENDC												
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.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_1	372000/1860	100%	0.196	0.088	-0.16	23.47	24.20	1.183	0.232	22.2
Left tilted	20	QPSK 1_1	372000/1860	100%	0.040	0.022	0.00	23.47	24.20	1.183	0.047	22.2
Right cheek	20	QPSK 1_1	372000/1860	100%	0.389	0.189	0.02	23.47	24.20	1.183	0.460	22.2
Right tilted	20	QPSK 1_1	372000/1860	100%	0.059	0.033	0.08	23.47	24.20	1.183	0.070	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_28	380000/1900	100%	0.136	0.067	-0.06	23.29	24.20	1.233	0.168	22.2
Left tilted	20	QPSK 50_28	380000/1900	100%	0.017	0.007	0.16	23.29	24.20	1.233	0.021	22.2
Right cheek	20	QPSK 50_28	380000/1900	100%	0.276	0.133	-0.13	23.29	24.20	1.233	0.340	22.2
Right tilted	20	QPSK 50_28	380000/1900	100%	0.044	0.024	-0.15	23.29	24.20	1.233	0.054	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_1	372000/1860	100%	0.044	0.021	0.13	23.47	24.20	1.183	0.052	22.1
Back side	20	QPSK 1_1	372000/1860	100%	0.047	0.024	0.15	23.47	24.20	1.183	0.056	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_28	380000/1900	100%	0.006	0.003	0.04	23.29	24.20	1.233	0.007	22.1
Back side	20	QPSK 50_28	380000/1900	100%	0.040	0.011	-0.18	23.29	24.20	1.233	0.049	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_104	380000/1900	100%	0.008	0.004	0.06	20.47	21.20	1.183	0.009	22.1
Back side	20	QPSK 1_104	380000/1900	100%	0.029	0.013	0.07	20.47	21.20	1.183	0.034	22.1
Left side	20	QPSK 1_104	380000/1900	100%	0.075	0.033	0.18	20.47	21.20	1.183	0.089	22.1
Top side	20	QPSK 1_104	380000/1900	100%	0.007	0.003	0.12	20.47	21.20	1.183	0.008	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_28	380000/1900	100%	0.011	0.005	-0.04	20.27	21.20	1.239	0.014	22.1
Back side	20	QPSK 50_28	380000/1900	100%	0.031	0.015	-0.16	20.27	21.20	1.239	0.038	22.1
Left side	20	QPSK 50_28	380000/1900	100%	0.082	0.035	0.12	20.27	21.20	1.239	0.102	22.1
Top side	20	QPSK 50_28	380000/1900	100%	0.009	0.004	-0.18	20.27	21.20	1.239	0.011	22.1
Ant 13 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.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_1	376000/1880	100%	0.271	0.152	-0.05	15.30	16.50	1.318	0.357	22.2
Left tilted	20	QPSK 1_1	376000/1880	100%	0.355	0.188	-0.07	15.30	16.50	1.318	0.468	22.2
Right cheek	20	QPSK 1_1	376000/1880	100%	0.433	0.222	0.17	15.30	16.50	1.318	0.571	22.2
Right tilted	20	QPSK 1_1	376000/1880	100%	0.473	0.247	-0.06	15.30	16.50	1.318	0.624	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_28	376000/1880	100%	0.280	0.156	0.11	15.26	16.50	1.330	0.373	22.2
Left tilted	20	QPSK 50_28	376000/1880	100%	0.363	0.193	0.12	15.26	16.50	1.330	0.483	22.2
Right cheek	20	QPSK 50_28	376000/1880	100%	0.444	0.227	0.07	15.26	16.50	1.330	0.591	22.2

Right tilted	20	QPSK 50_28	376000/1880	100%	0.528	0.243	0.03	15.26	16.50	1.330	**0.702**	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_104	376000/1880	100%	0.326	0.185	-0.03	23.30	24.50	1.318	0.430	22.1
Back side	20	QPSK 1_104	376000/1880	100%	0.421	0.246	0.02	23.30	24.50	1.318	**0.555**	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_28	376000/1880	100%	0.323	0.185	-0.11	23.25	24.50	1.334	0.431	22.1
Back side	20	QPSK 50_28	376000/1880	100%	0.415	0.237	0.02	23.25	24.50	1.334	0.553	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_104	376000/1880	100%	0.130	0.070	-0.01	16.38	17.50	1.294	0.168	22.1
Back side	20	QPSK 1_104	376000/1880	100%	0.203	0.106	0.19	16.38	17.50	1.294	0.263	22.1
Left side	20	QPSK 1_104	376000/1880	100%	0.006	0.003	-0.12	16.38	17.50	1.294	0.008	22.1
Top side	20	QPSK 1_104	376000/1880	100%	0.284	0.139	-0.14	16.38	17.50	1.294	0.368	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_28	376000/1880	100%	0.131	0.069	0.06	16.24	17.50	1.337	0.175	22.1
Back side	20	QPSK 50_28	376000/1880	100%	0.194	0.101	-0.02	16.24	17.50	1.337	0.259	22.1
Left side	20	QPSK 50_28	376000/1880	100%	0.005	0.002	0.01	16.24	17.50	1.337	0.007	22.1
Top side	20	QPSK 50_28	376000/1880	100%	0.331	0.170	0.10	16.24	17.50	1.337	0.442	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 off DSI 4												
Back side 13mm	20	QPSK 1_104	376000/1880	100%	0.699	0.383	0.13	23.30	24.50	1.318	0.505	22.2
Top side 14mm	20	QPSK 1_104	376000/1880	100%	0.830	0.455	0.03	23.30	24.50	1.318	0.600	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off DSI 4												
Back side 13mm	20	QPSK 50_28	376000/1880	100%	0.709	0.384	-0.13	23.25	24.50	1.334	0.512	22.2
Top side 14mm	20	QPSK 50_28	376000/1880	100%	0.776	0.426	0.14	23.25	24.50	1.334	0.568	22.2
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	20	QPSK 1_1	380000/1900	100%	1.450	0.700	-0.18	17.89	19.00	1.291	0.904	22.2
Top side	20	QPSK 1_1	380000/1900	100%	3.920	1.500	0.06	17.89	19.00	1.291	**1.937**	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Back side	20	QPSK 50_28	376000/1880	100%	1.460	0.682	0.07	17.75	19.00	1.334	0.909	22.2
Top side	20	QPSK 50_28	376000/1880	100%	4.100	1.450	-0.18	17.75	19.00	1.334	1.934	22.2
Ant 31 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.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_53	372000/1860	100%	0.119	0.077	0.14	23.30	24.00	1.175	0.140	22.2
Left tilted	20	QPSK 1_53	372000/1860	100%	0.087	0.054	-0.12	23.30	24.00	1.175	0.102	22.2
Right cheek	20	QPSK 1_53	372000/1860	100%	0.162	0.102	-0.17	23.30	24.00	1.175	0.190	22.2
Right tilted	20	QPSK 1_53	372000/1860	100%	0.091	0.055	-0.07	23.30	24.00	1.175	0.107	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_28	376000/1880	100%	0.118	0.078	-0.11	23.10	24.00	1.230	0.145	22.2
Left tilted	20	QPSK 50_28	376000/1880	100%	0.088	0.054	0.18	23.10	24.00	1.230	0.108	22.2
Right cheek	20	QPSK 50_28	376000/1880	100%	0.154	0.096	-0.11	23.10	24.00	1.230	0.189	22.2
Right tilted	20	QPSK 50_28	376000/1880	100%	0.075	0.045	0.05	23.10	24.00	1.230	0.092	22.2

Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_53	372000/1860	100%	0.173	0.105	0.18	20.74	21.50	1.191	0.206	22.2
Back side	20	QPSK 1_53	372000/1860	100%	0.264	0.155	0.12	20.74	21.50	1.191	0.314	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_28	372000/1860	100%	0.181	0.108	-0.17	20.60	21.50	1.230	0.223	22.2
Back side	20	QPSK 50_28	372000/1860	100%	0.268	0.157	-0.16	20.60	21.50	1.230	0.330	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_53	372000/1860	100%	0.270	0.162	0.05	20.33	21.00	1.167	0.315	22.2
Back side	20	QPSK 1_53	372000/1860	100%	0.442	0.259	0.03	20.33	21.00	1.167	0.516	22.2
Left side	20	QPSK 1_53	372000/1860	100%	0.006	0.003	-0.13	20.33	21.00	1.167	0.007	22.2
Right side	20	QPSK 1_53	372000/1860	100%	0.058	0.030	0.18	20.33	21.00	1.167	0.068	22.2
Bottom side	20	QPSK 1_53	372000/1860	100%	0.539	0.297	-0.07	20.33	21.00	1.167	0.629	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_28	372000/1860	100%	0.271	0.163	0.18	20.09	21.00	1.233	0.334	22.2
Back side	20	QPSK 50_28	372000/1860	100%	0.437	0.256	-0.04	20.09	21.00	1.233	0.539	22.2
Left side	20	QPSK 50_28	372000/1860	100%	0.004	0.002	-0.18	20.09	21.00	1.233	0.005	22.2
Right side	20	QPSK 50_28	372000/1860	100%	0.134	0.073	-0.08	20.09	21.00	1.233	0.165	22.2
Bottom side	20	QPSK 50_28	372000/1860	100%	0.646	0.375	0.14	20.09	21.00	1.233	**0.797**	22.2

(for original report SZCR241200494509)

N2 SAR Test Record												
Ant 13 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.(℃)**
Head Test Data (50%RB) DSI 2												
Right tilted	20	QPSK 50_28	376000/1880	100%	0.408	0.190	0.13	15.26	16.50	1.330	**0.543**	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Back side	20	QPSK 1_104	376000/1880	100%	0.392	0.227	-0.02	23.30	24.50	1.318	**0.517**	22.3
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 DSI 5												
Top side	20	QPSK 1_1	380000/1900	100%	3.620	1.380	0.03	17.89	19.00	1.291	**1.782**	22.3
Ant 31 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.(℃)**
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Bottom side	20	QPSK 50_28	372000/1860	100%	0.618	0.358	0.06	20.09	21.00	1.233	**0.762**	22.3

(for new report SZCR250100029101)

8.2.14 SAR Result of NR Band n7

N7 SAR Test Record												
Ant 11 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.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	50	QPSK 1_135	507000/2535	100%	0.245	0.115	-0.15	16.80	17.90	1.288	0.316	22.2
Left tilted	50	QPSK 1_135	507000/2535	100%	0.052	0.030	0.14	16.80	17.90	1.288	0.067	22.2
Right cheek	50	QPSK 1_135	507000/2535	100%	0.542	0.244	0.14	16.80	17.90	1.288	0.698	22.2
Right tilted	50	QPSK 1_135	507000/2535	100%	0.117	0.061	-0.01	16.80	17.90	1.288	0.151	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	50	QPSK 135_67	505000/2525	100%	0.232	0.112	0.01	17.31	17.90	1.146	0.266	22.2
Left tilted	50	QPSK 135_67	505000/2525	100%	0.052	0.028	-0.03	17.31	17.90	1.146	0.060	22.2
Right cheek	50	QPSK 135_67	505000/2525	100%	0.493	0.223	0.05	17.31	17.90	1.146	0.565	22.2
Right tilted	50	QPSK 135_67	505000/2525	100%	0.105	0.055	-0.18	17.31	17.90	1.146	0.120	22.2
Head Test Data (1RB) DSI 2 with ENDC												
Left cheek	50	QPSK 1_135	507000/2535	100%	0.245	0.115	-0.15	16.80	14.90	0.646	0.158	22.2
Left tilted	50	QPSK 1_135	507000/2535	100%	0.052	0.030	0.14	16.80	14.90	0.646	0.034	22.2
Right cheek	50	QPSK 1_135	507000/2535	100%	0.542	0.244	0.14	16.80	14.90	0.646	0.350	22.2
Right tilted	50	QPSK 1_135	507000/2535	100%	0.117	0.061	-0.01	16.80	14.90	0.646	0.076	22.2
Head Test Data (50%RB) DSI 2 with ENDC												
Left cheek	50	QPSK 135_67	505000/2525	100%	0.232	0.112	0.01	17.31	14.90	0.574	0.133	22.2
Left tilted	50	QPSK 135_67	505000/2525	100%	0.052	0.028	-0.03	17.31	14.90	0.574	0.030	22.2
Right cheek	50	QPSK 135_67	505000/2525	100%	0.493	0.223	0.05	17.31	14.90	0.574	0.283	22.2
Right tilted	50	QPSK 135_67	505000/2525	100%	0.105	0.055	-0.18	17.31	14.90	0.574	0.060	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	50	QPSK 1_135	507000/2535	100%	0.319	0.158	0.16	23.32	24.40	1.282	0.409	22.2
Back side	50	QPSK 1_135	507000/2535	100%	0.413	0.207	-0.03	23.32	24.40	1.282	**0.530**	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	50	QPSK 135_67	509000/2545	100%	0.338	0.162	-0.09	23.79	24.40	1.151	0.389	22.2
Back side	50	QPSK 135_67	509000/2545	100%	0.404	0.201	-0.08	23.79	24.40	1.151	0.465	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	50	QPSK 1_135	507000/2535	100%	0.135	0.063	-0.06	16.34	17.40	1.276	0.172	22.2
Back side	50	QPSK 1_135	507000/2535	100%	0.231	0.106	0.09	16.34	17.40	1.276	0.295	22.2
Left side	50	QPSK 1_135	507000/2535	100%	0.376	0.156	0.10	16.34	17.40	1.276	0.480	22.2
Top side	50	QPSK 1_135	507000/2535	100%	0.044	0.014	0.15	16.34	17.40	1.276	0.056	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	50	QPSK 135_67	505000/2525	100%	0.139	0.060	0.03	16.78	17.40	1.153	0.160	22.2
Back side	50	QPSK 135_67	505000/2525	100%	0.223	0.098	0.02	16.78	17.40	1.153	0.257	22.2
Left side	50	QPSK 135_67	505000/2525	100%	0.366	0.151	0.07	16.78	17.40	1.153	0.422	22.2
Top side	50	QPSK 135_67	505000/2525	100%	0.029	0.007	0.04	16.78	17.40	1.153	0.033	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) Sensor off DSI 4												
Back side 13mm	50	QPSK 1_135	507000/2535	100%	0.706	0.331	-0.13	23.32	24.40	1.282	0.424	22.2
Left side 15mm	50	QPSK 1_135	507000/2535	100%	1.000	0.467	-0.08	23.32	24.40	1.282	0.599	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off DSI 4												
Back side 13mm	50	QPSK 135_67	509000/2545	100%	0.768	0.358	-0.07	23.79	24.40	1.151	0.412	22.2
Left side 15mm	50	QPSK 135_67	509000/2545	100%	1.110	0.497	0.04	23.79	24.40	1.151	0.572	22.2
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	50	QPSK 1_135	507000/2535	100%	3.510	1.230	-0.07	17.84	18.90	1.276	1.570	22.2
Left side	50	QPSK 1_135	507000/2535	100%	4.100	1.520	-0.10	17.84	18.90	1.276	1.940	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Back side	50	QPSK 135_67	509000/2545	100%	3.420	1.200	0.01	18.25	18.90	1.161	1.394	22.2
Left side	50	QPSK 135_67	509000/2545	100%	4.260	1.470	-0.05	18.25	18.90	1.161	1.707	22.2
Ant 13 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.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	50	QPSK 1_135	509000/2545	100%	0.208	0.104	0.15	15.36	16.50	1.300	0.270	22.2
Left tilted	50	QPSK 1_135	509000/2545	100%	0.286	0.139	-0.01	15.36	16.50	1.300	0.372	22.2
Right cheek	50	QPSK 1_135	509000/2545	100%	0.465	0.204	0.00	15.36	16.50	1.300	0.605	22.2
Right tilted	50	QPSK 1_135	509000/2545	100%	0.610	0.248	0.06	15.36	16.50	1.300	**0.793**	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	50	QPSK 135_67	509000/2545	100%	0.207	0.102	-0.04	15.34	16.50	1.306	0.270	22.2
Left tilted	50	QPSK 135_67	509000/2545	100%	0.269	0.134	0.01	15.34	16.50	1.306	0.351	22.2
Right cheek	50	QPSK 135_67	509000/2545	100%	0.449	0.195	0.11	15.34	16.50	1.306	0.586	22.2
Right tilted	50	QPSK 135_67	509000/2545	100%	0.592	0.245	-0.08	15.34	16.50	1.306	0.773	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	50	QPSK 1_135	505000/2525	100%	0.143	0.077	0.00	20.84	22.00	1.306	0.187	22.2
Back side	50	QPSK 1_135	505000/2525	100%	0.355	0.177	0.01	20.84	22.00	1.306	0.464	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	50	QPSK 135_67	507000/2535	100%	0.147	0.079	-0.13	20.88	22.00	1.294	0.190	22.2
Back side	50	QPSK 135_67	507000/2535	100%	0.375	0.188	-0.08	20.88	22.00	1.294	0.485	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	50	QPSK 1_135	509000/2545	100%	0.080	0.040	0.01	15.36	16.50	1.300	0.104	22.2
Back side	50	QPSK 1_135	509000/2545	100%	0.309	0.135	-0.09	15.36	16.50	1.300	0.402	22.2
Left side	50	QPSK 1_135	509000/2545	100%	0.055	0.030	0.18	15.36	16.50	1.300	0.072	22.2
Top side	50	QPSK 1_135	509000/2545	100%	0.370	0.163	-0.08	15.36	16.50	1.300	**0.481**	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	50	QPSK 135_67	509000/2545	100%	0.078	0.039	-0.01	15.34	16.50	1.306	0.102	22.2
Back side	50	QPSK 135_67	509000/2545	100%	0.322	0.136	-0.09	15.34	16.50	1.306	0.421	22.2
Left side	50	QPSK 135_67	509000/2545	100%	0.058	0.030	0.04	15.34	16.50	1.306	0.076	22.2
Top side	50	QPSK 135_67	509000/2545	100%	0.367	0.160	0.06	15.34	16.50	1.306	0.479	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) Sensor off DSI 4												

Back side 13mm	50	QPSK 1_135	505000/2525	100%	0.682	0.315	0.01	20.84	22.00	1.306	0.411	22.2
Top side 14mm	50	QPSK 1_135	505000/2525	100%	0.803	0.371	0.06	20.84	22.00	1.306	0.485	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor off DSI 4												
Back side 13mm	50	QPSK 135_67	507000/2535	100%	0.720	0.334	-0.11	20.88	22.00	1.294	0.432	22.2
Top side 14mm	50	QPSK 135_67	507000/2535	100%	0.849	0.391	-0.14	20.88	22.00	1.294	0.506	22.2
Product specific 10g SAR Test data (Separate 0mm 1RB) Sensor on DSI 5												
Back side	50	QPSK 1_135	509000/2545	100%	2.740	0.914	0.15	16.82	18.00	1.312	1.199	22.2
Top side	50	QPSK 1_135	509000/2545	100%	4.050	1.570	0.03	16.82	18.00	1.312	2.060	22.2
Top side	50	QPSK 1_135	505000/2525	100%	4.570	1.560	0.01	16.78	18.00	1.324	2.066	22.2
Top side	50	QPSK 1_135	507000/2535	100%	4.650	1.590	0.12	16.78	18.00	1.324	2.106	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB) Sensor on DSI 5												
Back side	50	QPSK 135_67	505000/2525	100%	2.700	0.953	0.04	16.75	18.00	1.334	1.271	22.2
Top side	50	QPSK 135_67	505000/2525	100%	4.680	1.590	-0.05	16.75	18.00	1.334	**2.120**	22.2
Top side	50	QPSK 135_67	507000/2535	100%	4.590	1.560	0.11	16.72	18.00	1.343	2.095	22.2
Top side	50	QPSK 135_67	509000/2545	100%	4.450	1.510	0.14	16.72	18.00	1.343	2.028	22.2
Product specific 10g SAR Test data (Separate 0mm 100%RB) Sensor on DSI 5												
Top side	50	QPSK 270_0	509000/2545	100%	3.530	1.200	-0.03	15.85	17.00	1.303	1.564	22.2
Ant 31 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.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	50	QPSK 1_135	509000/2545	100%	0.170	0.099	-0.05	23.48	24.40	1.236	0.210	22.2
Left tilted	50	QPSK 1_135	509000/2545	100%	0.168	0.091	0.19	23.48	24.40	1.236	0.208	22.2
Right cheek	50	QPSK 1_135	509000/2545	100%	0.336	0.183	-0.04	23.48	24.40	1.236	0.415	22.2
Right tilted	50	QPSK 1_135	509000/2545	100%	0.128	0.072	0.18	23.48	24.40	1.236	0.158	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	50	QPSK 135_67	507000/2535	100%	0.174	0.101	0.02	23.36	24.40	1.271	0.221	22.2
Left tilted	50	QPSK 135_67	507000/2535	100%	0.172	0.093	-0.02	23.36	24.40	1.271	0.219	22.2
Right cheek	50	QPSK 135_67	507000/2535	100%	0.329	0.180	0.05	23.36	24.40	1.271	0.418	22.2
Right tilted	50	QPSK 135_67	507000/2535	100%	0.135	0.077	-0.12	23.36	24.40	1.271	0.172	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	50	QPSK 1_135	509000/2545	100%	0.157	0.086	-0.06	21.03	21.90	1.222	0.192	22.2
Back side	50	QPSK 1_135	509000/2545	100%	0.144	0.077	0.07	21.03	21.90	1.222	0.176	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	50	QPSK 135_67	507000/2535	100%	0.167	0.097	-0.15	20.90	21.90	1.259	0.210	22.2
Back side	50	QPSK 135_67	507000/2535	100%	0.153	0.085	0.04	20.90	21.90	1.259	0.193	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	50	QPSK 1_135	507000/2535	100%	0.299	0.168	0.18	20.41	21.40	1.256	0.376	22.2
Back side	50	QPSK 1_135	507000/2535	100%	0.320	0.171	0.04	20.41	21.40	1.256	0.402	22.2
Left side	50	QPSK 1_135	507000/2535	100%	0.043	0.023	-0.14	20.41	21.40	1.256	0.054	22.2
Right side	50	QPSK 1_135	507000/2535	100%	0.213	0.115	-0.02	20.41	21.40	1.256	0.268	22.2
Bottom side	50	QPSK 1_135	507000/2535	100%	0.313	0.137	-0.19	20.41	21.40	1.256	0.393	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	50	QPSK 135_67	509000/2545	100%	0.298	0.170	0.16	20.39	21.40	1.262	0.376	22.2

Back side	50	QPSK 135_67	509000/2545	100%	0.328	0.171	-0.13	20.39	21.40	1.262	0.414	22.2
Left side	50	QPSK 135_67	509000/2545	100%	0.042	0.022	0.19	20.39	21.40	1.262	0.053	22.2
Right side	50	QPSK 135_67	509000/2545	100%	0.222	0.118	0.10	20.39	21.40	1.262	0.280	22.2
Bottom side	50	QPSK 135_67	509000/2545	100%	0.302	0.142	0.03	20.39	21.40	1.262	0.381	22.2

(for original report SZCR241200494509)

N7 SAR Test Record												
Ant 11 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.(℃)**
Head Test Data (1RB) DSI 2												
Body worn Test data (Separate 15mm 1RB) DSI 4												
Back side	50	QPSK 1_135	507000/2535	100%	0.404	0.206	0.00	23.32	24.40	1.282	**0.518**	22.5
Ant 13 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.(℃)**
Head Test Data (1RB) DSI 2												
Right tilted	50	QPSK 1_135	509000/2545	100%	0.548	0.220	0.07	15.36	16.50	1.300	**0.712**	22.5
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Top side	50	QPSK 1_135	509000/2545	100%	0.312	0.140	-0.03	15.36	16.50	1.300	**0.406**	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 50%RB) Sensor on DSI 5												
Top side	50	QPSK 135_67	505000/2525	100%	4.210	1.440	-0.07	16.75	18.00	1.334	**1.920**	22.5

(for new report SZCR250100029101)

8.2.15 SAR Result of NR Band n26

N26 SAR Test Record												
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_53	167800/839	100%	0.443	0.297	-0.08	20.88	22.30	1.387	0.614	21.9
Left tilted	20	QPSK 1_53	167800/839	100%	0.442	0.273	0.04	20.88	22.30	1.387	0.613	21.9
Right cheek	20	QPSK 1_53	167800/839	100%	0.601	0.375	-0.11	20.88	22.30	1.387	**0.833**	21.9
Right tilted	20	QPSK 1_53	167800/839	100%	0.537	0.293	0.05	20.88	22.30	1.387	0.745	21.9
Right cheek	20	QPSK 1_1	164800/824	100%	0.581	0.342	-0.03	20.75	22.30	1.429	0.830	21.9
Right cheek	20	QPSK 1_53	166300/831.5	100%	0.550	0.338	-0.05	20.70	22.30	1.445	0.795	21.9
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_28	164800/824	100%	0.441	0.293	-0.01	20.79	22.30	1.416	0.624	21.9
Left tilted	20	QPSK 50_28	164800/824	100%	0.440	0.270	-0.18	20.79	22.30	1.416	0.623	21.9
Right cheek	20	QPSK 50_28	164800/824	100%	0.555	0.345	-0.12	20.79	22.30	1.416	0.786	21.9
Right tilted	20	QPSK 50_28	164800/824	100%	0.521	0.286	-0.16	20.79	22.30	1.416	0.738	21.9
Head Test Data (100%RB) DSI 2												
Right cheek	20	QPSK 100_0	164800/824	100%	0.511	0.290	-0.01	19.83	21.30	1.403	0.717	21.9
Head Test Data (1RB) DSI 2 with ENDC												
Left cheek	20	QPSK 1_53	167800/839	100%	0.443	0.297	-0.08	20.88	19.30	0.695	0.308	21.9
Left tilted	20	QPSK 1_53	167800/839	100%	0.442	0.273	0.04	20.88	19.30	0.695	0.307	21.9
Right cheek	20	QPSK 1_53	167800/839	100%	0.601	0.375	-0.11	20.88	19.30	0.695	0.418	21.9
Right tilted	20	QPSK 1_53	167800/839	100%	0.537	0.293	0.05	20.88	19.30	0.695	0.373	21.9
Right cheek	20	QPSK 1_1	164800/824	100%	0.581	0.342	-0.03	20.75	19.30	0.716	0.416	21.9
Right cheek	20	QPSK 1_53	166300/831.5	100%	0.550	0.338	-0.05	20.70	19.30	0.724	0.398	21.9
Head Test Data (50%RB) DSI 2 with ENDC												
Left cheek	20	QPSK 50_28	164800/824	100%	0.441	0.293	-0.01	20.79	19.30	0.710	0.313	21.9
Left tilted	20	QPSK 50_28	164800/824	100%	0.440	0.270	-0.18	20.79	19.30	0.710	0.312	21.9
Right cheek	20	QPSK 50_28	164800/824	100%	0.555	0.345	-0.12	20.79	19.30	0.710	0.394	21.9
Right tilted	20	QPSK 50_28	164800/824	100%	0.521	0.286	-0.16	20.79	19.30	0.710	0.370	21.9
Head Test Data (100%RB) DSI 2 with ENDC												
Right cheek	20	QPSK 100_0	164800/824	100%	0.511	0.290	-0.01	19.83	18.30	0.703	0.359	21.9
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_53	167800/839	100%	0.119	0.081	-0.18	23.78	25.30	1.419	0.169	21.9
Back side	20	QPSK 1_53	167800/839	100%	0.173	0.119	0.11	23.78	25.30	1.419	0.245	21.9
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_28	164800/824	100%	0.128	0.092	0.11	23.64	25.30	1.466	0.188	21.9
Back side	20	QPSK 50_28	164800/824	100%	0.212	0.162	-0.08	23.64	25.30	1.466	**0.311**	21.9
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_53	167800/839	100%	0.228	0.145	0.18	23.78	25.30	1.419	0.324	21.9
Back side	20	QPSK 1_53	167800/839	100%	0.285	0.178	-0.13	23.78	25.30	1.419	0.404	21.9

Left side	20	QPSK 1_53	167800/839	100%	0.086	0.055	-0.03	23.78	25.30	1.419	0.122	21.9
Top side	20	QPSK 1_53	167800/839	100%	0.292	0.194	-0.12	23.78	25.30	1.419	0.414	21.9
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_28	164800/824	100%	0.230	0.148	-0.06	23.64	25.30	1.466	0.337	21.9
Back side	20	QPSK 50_28	164800/824	100%	0.280	0.177	0.16	23.64	25.30	1.466	0.410	21.9
Left side	20	QPSK 50_28	164800/824	100%	0.136	0.090	-0.01	23.64	25.30	1.466	0.199	21.9
Top side	20	QPSK 50_28	164800/824	100%	0.283	0.180	0.01	23.64	25.30	1.466	**0.415**	21.9
Ant 31 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_53	164800/824	100%	0.082	0.058	-0.15	23.71	25.30	1.442	0.118	21.9
Left tilted	20	QPSK 1_53	164800/824	100%	0.064	0.047	0.10	23.71	25.30	1.442	0.092	21.9
Right cheek	20	QPSK 1_53	164800/824	100%	0.049	0.035	0.10	23.71	25.30	1.442	0.071	21.9
Right tilted	20	QPSK 1_53	164800/824	100%	0.013	0.007	0.01	23.71	25.30	1.442	0.019	21.9
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_28	166300/831.5	100%	0.086	0.061	-0.03	23.65	25.30	1.462	0.126	21.9
Left tilted	20	QPSK 50_28	166300/831.5	100%	0.068	0.049	0.09	23.65	25.30	1.462	0.099	21.9
Right cheek	20	QPSK 50_28	166300/831.5	100%	0.055	0.040	0.11	23.65	25.30	1.462	0.080	21.9
Right tilted	20	QPSK 50_28	166300/831.5	100%	0.017	0.009	0.05	23.65	25.30	1.462	0.025	21.9
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_53	164800/824	100%	0.130	0.088	-0.01	23.71	25.30	1.442	0.187	21.9
Back side	20	QPSK 1_53	164800/824	100%	0.148	0.107	-0.14	23.71	25.30	1.442	0.213	21.9
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_28	166300/831.5	100%	0.130	0.093	-0.19	23.65	25.30	1.462	0.190	21.9
Back side	20	QPSK 50_28	166300/831.5	100%	0.154	0.111	-0.14	23.65	25.30	1.462	0.225	21.9
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_53	164800/824	100%	0.124	0.076	0.10	23.71	25.30	1.442	0.179	21.9
Back side	20	QPSK 1_53	164800/824	100%	0.185	0.113	0.16	23.71	25.30	1.442	0.267	21.9
Left side	20	QPSK 1_53	164800/824	100%	0.077	0.051	0.14	23.71	25.30	1.442	0.111	21.9
Right side	20	QPSK 1_53	164800/824	100%	0.012	0.006	-0.01	23.71	25.30	1.442	0.017	21.9
Bottom side	20	QPSK 1_53	164800/824	100%	0.172	0.093	0.15	23.71	25.30	1.442	0.248	21.9
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_28	166300/831.5	100%	0.130	0.079	0.02	23.65	25.30	1.462	0.190	21.9
Back side	20	QPSK 50_28	166300/831.5	100%	0.181	0.113	-0.17	23.65	25.30	1.462	0.265	21.9
Left side	20	QPSK 50_28	166300/831.5	100%	0.170	0.111	0.10	23.65	25.30	1.462	0.249	21.9
Right side	20	QPSK 50_28	166300/831.5	100%	0.084	0.056	0.01	23.65	25.30	1.462	0.123	21.9
Bottom side	20	QPSK 50_28	166300/831.5	100%	0.164	0.087	-0.13	23.65	25.30	1.462	0.240	21.9

(for original report SZCR241200494509)

N26 SAR Test Record												
Ant 13 Test Record												
Test position	**BW.**	**Test mode**	**Test ch./Freq.**	**Duty Cycle**	**SAR (W/kg) 1-g**	**SAR (W/kg) 10-g**	**Power drift (dB)**	**Conducted Power(dBm)**	**Tune up Limit(dBm)**	**Scaled factor**	**Scaled SAR 1-g (W/kg)**	**Liquid Temp.(℃)**
Head Test Data (1RB) DSI 2												
Right cheek	20	QPSK 1_53	167800/839	100%	0.561	0.328	0.05	20.88	22.30	1.387	**0.778**	22.0
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Back side	20	QPSK 50_28	164800/824	100%	0.204	0.157	0.08	23.64	25.30	1.466	**0.299**	22.0
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Top side	20	QPSK 50_28	164800/824	100%	0.266	0.165	-0.03	23.64	25.30	1.466	**0.390**	22.0

(for new report SZCR250100029101)