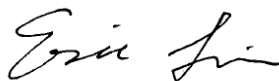


FCC SAR TEST REPORT

Application No.: KSCR2207001162AT
Applicant: PAX Technology Limited
Address of Applicant: Room 2416, 24/F, Sun Hung Kai Centre, 30 Harbour, Hong Kong, China
Manufacturer: PAX Computer Technology(Shenzhen) Co., Ltd.
Address of Manufacturer: 401 and 402, Building 3, Shenzhen Software Park, Nanshan District, Shenzhen City, Guangdong Province, P.R.C
Factory: Guangzhou PAX Computer Technology Co., Ltd
Address of Factory: No.2 Bldg, No.113 Jinyang Road, Hualong Town, Panyu, Guangzhou, Guangdong, China
Product Name: Mobile Payment Terminal
Model No.(EUT): D190
Trade mark: PAX
FCC ID: V5PD190LBW
Standard(s) : FCC 47CFR §2.1093
Date of Receipt: 2022-07-28
Date of Test: 2022-08-5 to 2022-08-13
Date of Issue: 2022-08-27

Test Result:	Pass*
---------------------	--------------

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



Eric Lin

EMC Technical Manager



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REVISION HISTORY

Revision Record			
Version	Description	Date	Remark
00	Original	2022-08-27	/

Authorized for issue by:			
		<i>Richard Kong</i>	
		Richard.Kong/ Project Engineer	
		<i>Eric Lin</i>	
		Eric.Lin/Reviewer	



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Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)	
	Body	Extremity
GSM 850	0.63	1.15
PCS 1900	0.76	1.08
WCDMA Band II	0.55	1.35
WCDMA Band IV	0.83	1.63
WCDMA Band V	1.03	1.03
LTE Band 2	0.92	1.55
LTE Band 4	0.74	1.29
LTE Band 5	0.77	0.75
LTE Band 7	0.75	0.82
LTE Band 66	0.67	1.13
WI-FI (2.4GHz)	0.12	0.29
WI-FI (5G-U-NII-1)	0.38	0.44
Bluetooth	0.02	0.01
SAR Limited(W/kg)	1.6	4
Maximum Simultaneous Transmission SAR (W/kg)		
Scenario	Body	Extremity
Sum SAR	1.11	1.78
SPLSR	NA	N/A
SPLSR Limited	0.04	0.1



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CONTENTS

1	GENERAL INFORMATION.....	6
1.1	GENERAL DESCRIPTION OF EUT	6
1.2	TEST SPECIFICATION.....	7
1.3	RF EXPOSURE LIMITS	8
1.4	TEST LOCATION.....	9
1.5	TEST FACILITY.....	9
2	LABORATORY ENVIRONMENT.....	10
3	SAR MEASUREMENTS SYSTEM CONFIGURATION.....	11
3.1	THE SAR MEASUREMENT SYSTEM	11
3.2	ISOTROPIC E-FIELD PROBE EX3DV4	13
3.3	DATA ACQUISITION ELECTRONICS (DAE)	14
3.4	SAM TWIN PHANTOM.....	14
3.5	ELI PHANTOM	15
3.6	DEVICE HOLDER FOR TRANSMITTERS.....	16
3.7	MEASUREMENT PROCEDURE	17
3.7.1	<i>Scanning procedure</i>	17
3.7.2	<i>Data Storage</i>	19
3.7.3	<i>Data Evaluation by SEMCAD</i>	19
4	SAR MEASUREMENT VARIABILITY AND UNCERTAINTY	21
4.1	SAR MEASUREMENT VARIABILITY.....	21
4.2	SAR MEASUREMENT UNCERTAINTY.....	22
5	DESCRIPTION OF TEST POSITION.....	23
5.1	THE BODY TEST POSITION.....	23
5.2	EXTREMITY TEST POSITION	24
6	SAR SYSTEM VERIFICATION PROCEDURE.....	25
6.1	TISSUE SIMULATE LIQUID.....	25
6.1.1	<i>Recipes for Tissue Simulate Liquid</i>	25
6.1.2	<i>Test Liquids Confirmation</i>	26
6.1.3	<i>Measurement for Tissue Simulate Liquid</i>	27
6.2	SAR SYSTEM CHECK	28
6.2.1	<i>Justification for Extended SAR Dipole Calibrations</i>	29
6.2.2	<i>Summary System Check Result(s)</i>	30
6.2.3	<i>Detailed System Check Results</i>	30
7	TEST CONFIGURATION.....	31
7.1	OPERATION CONFIGURATIONS	31
7.1.1	<i>GSM Test Configuration</i>	31

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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 5 of 127

7.2	3G SAR TEST REDUCTION PROCEDURE	32
7.3	OPERATION CONFIGURATIONS	32
7.3.1	WCDMA Test Configuration.....	32
7.3.2	Wi-Fi Test Configuration	37
7.3.3	Bluetooth Test Configuration	42
7.3.4	LTE Test Configuration.....	43
8	TEST RESULT	45
8.1	MEASUREMENT OF RF CONDUCTED POWER.....	45
8.1.1	Conducted Power Of GSM	45
8.1.2	Conducted Power Of WCDMA.....	46
	Conducted Power Of LTE	47
8.1.3	Conducted Power Of Wi-Fi and BT	59
8.2	MEASUREMENT OF SAR DATA	63
8.2.1	SAR Result Of GSM 850	64
8.2.2	SAR Result Of GSM 1900	65
8.2.3	SAR Result Of WCDMA II.....	66
8.2.4	SAR Result Of WCDMA IV.....	67
8.2.5	SAR Result Of WCDMA V	68
8.2.6	SAR Result Of LTE Band 2.....	69
8.2.7	SAR Result Of LTE Band 4.....	70
8.2.8	SAR Result Of LTE Band 5.....	71
8.2.9	SAR Result Of LTE Band 7.....	72
8.2.10	SAR Result Of LTE Band 66	73
8.2.11	SAR Result Of 2.4G Wi-Fi.....	74
8.2.12	SAR Result Of WIFI 5G.....	75
8.3	MULTIPLE TRANSMITTER EVALUATION.....	78
8.3.1	Simultaneous SAR SAR test evaluation.....	78
8.3.2	Estimated SAR.....	79
9	EQUIPMENT LIST.....	86
10	CALIBRATION CERTIFICATE.....	88
11	PHOTOGRAPHS.....	88
	APPENDIX A: DETAILED SYSTEM CHECK RESULTS.....	89
	APPENDIX B: DETAILED TEST RESULTS.....	98
	APPENDIX C: CALIBRATION CERTIFICATE.....	127
	APPENDIX D: PHOTOGRAPHS.....	127



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1 General Information

1.1 General Description of EUT

Device Type :	portable device		
Exposure Category:	uncontrolled environment / general population		
Product Phase:	production unit		
SN:	1261748075		
Antenna Type:	PIFA antenna		
Antenna Gain:	See Antenna specification		
Device Operating Configurations :			
Modulation Mode:	GSM:GMSK, 8PSK;WCDMA: QPSK, 16QAM(HSPA+);LTE:QPSK, 16QAM, 64QAM; WIFI: CCK, DSSS, OFDM;BT: GFSK, π/4DQPSK, 8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	14	HSUPA UE Category	6
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 II/IV)		
	3, tested with power control Max Power(LTE Band 2/4/5/7/66)		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824~849	869~894
	PCS 1900	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 66	1710~1780	2110~2200
	WI-FI2.4G	2412~2462	2412~2462
	U-NII-1	5150-5250	5150-5250
	U-NII-2A	5250-5350	5250-5350
	U-NII-2C	5470-5725	5470-5725
	U-NII-3	5725~5850	5725~5850
Bluetooth	2402~2480	2402~2480	
Battery Information:	Model:	IS057-E	
	Normal Voltage :	DC3.7V	
	Rated capacity :	1900mAh	
	Manufacturer	ICON ENERGY SYSTEM (SHENZHEN) CO.,LTD.	

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1.2 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radio frequency Radiation Exposure Evaluation: Portable Devices
IEEE Std C95.1 – 1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 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 248227 D01 v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS
KDB 941225 D01 V03r01	3G SAR Measurement Procedures
KDB 941225 D05 v02r05	SAR EVALUATION CONSIDERATIONS FOR LTE DEVICES
KDB 447498 D04 v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
KDB 865664 D01 v01r04	SAR Measurement Requirements for 100 MHz to 6 GHz
KDB 865664 D02 v01r02	RF Exposure Compliance Reporting and Documentation Considerations



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1.3 RF exposure limits

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

Notes:

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

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

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

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

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



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Report No.: KSCR220700116201

Page: 9 of 127

1.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, high est internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

1.5 Test Facility

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

• CNAS

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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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 Configuration

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

The DASY5 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.

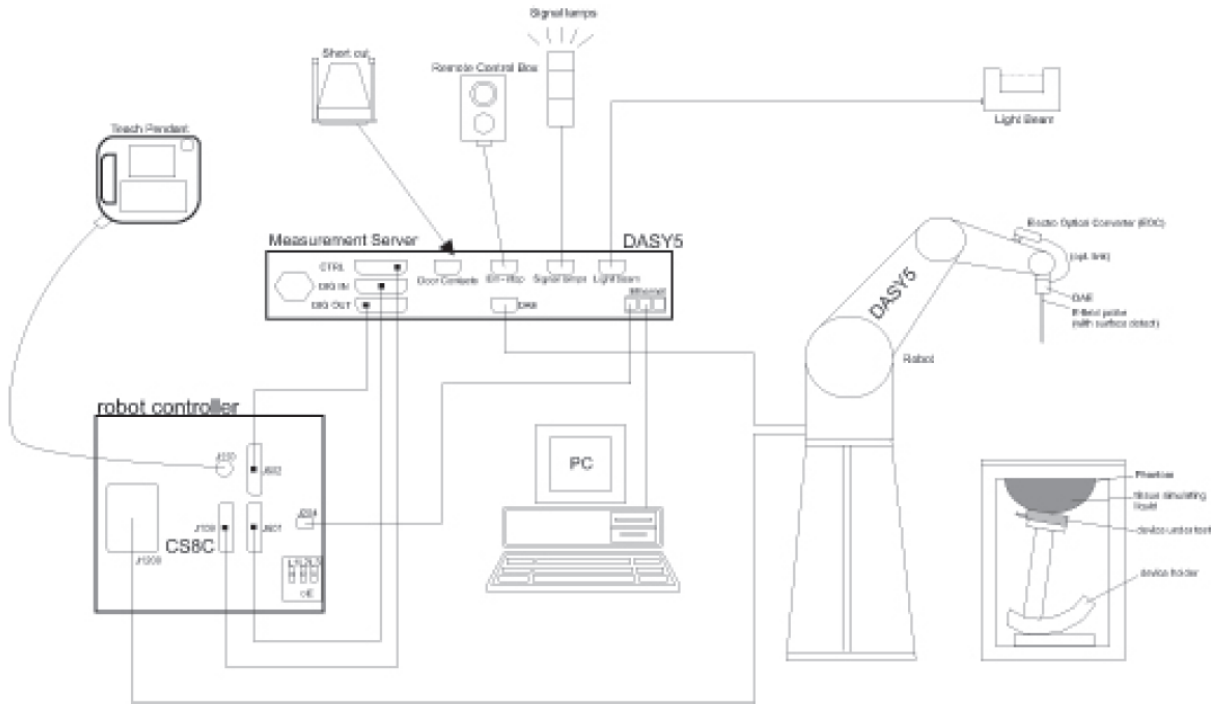
The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



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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 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validate the proper functioning of the system.



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3.2 Isotropic E-field Probe EX3DV4

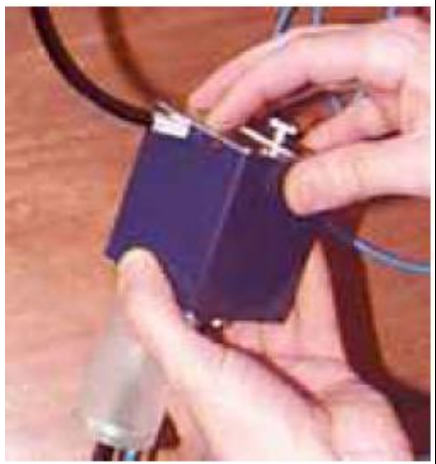
	<p>Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)</p>
<p>Calibration</p>	<p>ISO/IEC 17025 calibration service available.</p>
<p>Frequency</p>	<p>10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)</p>
<p>Directivity</p>	<p>± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)</p>
<p>Dynamic Range</p>	<p>10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)</p>
<p>Dimensions</p>	<p>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</p>
<p>Application</p>	<p>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%.</p>
<p>Compatibility</p>	<p>DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI</p>




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3.3 Data Acquisition Electronics (DAE)

Model	DAE4	
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	approx. 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 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

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




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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	approx. 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 IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

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



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3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

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



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3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

Around this point, a volume of 30mm*30mm*30mm (fine resolution volume scan, zoom scan) was assessed by measuring 5x5x7 points ($\leq 2\text{GHz}$) and 7x7x7 points ($\geq 2\text{GHz}$). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

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

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



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		≤ 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: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm 3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		Δz _{Zoom} (n>1): between subsequent points	≤ 1.5 · Δz _{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
<p>Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.</p> <p>* When zoom scan is required and the <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.</p>			

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 “.DAE3”. The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

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

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

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

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

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

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

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



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Report No.: KSCR220700116201

Page: 20 of 127

U_i = input signal of channel i ($i = x, y, z$)
 cf = crest factor of exciting field (DASY parameter)
 dcp_i = diode compression point (DASY parameter)

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

E-field probes:

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

H-field probes:

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

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

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

[mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

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

f = carrier frequency [GHz]

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

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

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

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

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

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

With SAR = local specific absorption rate in mW/g

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

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

ϵ = equivalent tissue density in g/cm³

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

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

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

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

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



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB865664 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.

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4.2 SAR measurement uncertainty

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



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5 Description of Test Position

5.1 The Body Test Position

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

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

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

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

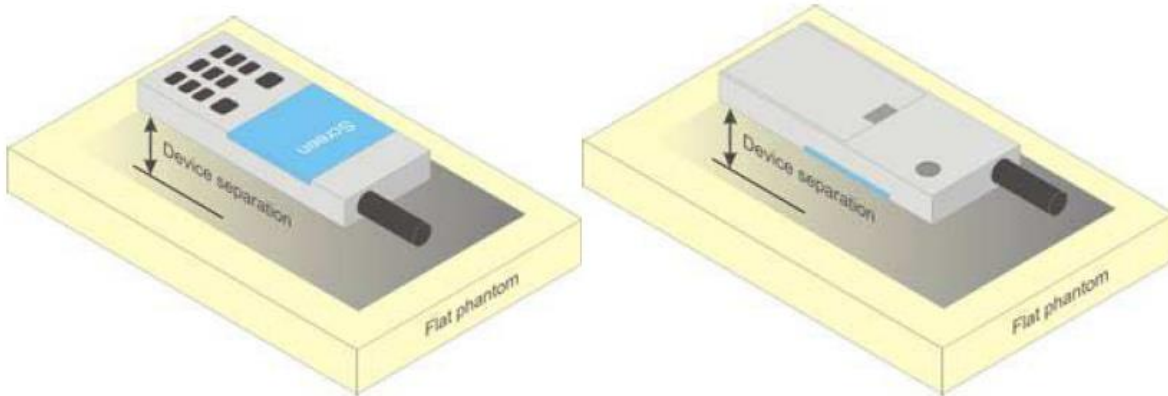
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F-1. Test positions for body-worn devices

5.2 Extremity Test Position

Devices that are designed or intended for use on extremities, or mainly operated in extremity only exposure conditions, i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1-g body and 10-g extremity SAR Test Exclusion Thresholds in 8.2 should be applied to determine SAR test requirements. When extremity SAR testing is required, a flat phantom must be used if the exposure condition is more conservative than the actual use conditions; otherwise, a KDB inquiry is required to determine the phantom and test requirements. Body SAR compliance is also tested with a flat phantom. For devices with irregular shapes or form factors that do not conform to a flat phantom, and/or unusual operating configurations and exposure conditions, a KDB inquiry is also required to determine the appropriate SAR measurement procedures. Unless it is specified differently in the published RF exposure KDB procedures, when simultaneous transmission applies to extremity exposure, the simultaneous transmission SAR test exclusion provisions should be applied. When simultaneous transmission SAR measurement is required, the enlarged zoom scan and volume scan post-processing procedures in KDB Publication 865664 D01 should be applied.

SAR can test the sides near the antenna, the surface of the device should be tested for SAR compliance with the device touching the phantom. The SAR Exclusion Threshold in KDB 447498 D04 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent device surface is used to determine if SAR testing is required for the adjacent surfaces, with the adjacent surface positioned against the phantom and the surface containing the antenna positioned perpendicular to the phantom.

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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)									
	450		835		915		1900		2450	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Water	38.56	51.16	41.45	52.4	41.05	56.0	54.9	40.4	62.7	73.2
Salt (NaCl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7
Dielectric Constant	43.42	58.0	42.54	56.1	42.0	56.8	39.9	54.0	39.8	52.5
Conductivity (S/m)	0.85	0.83	0.91	0.95	1.0	1.07	1.42	1.45	1.88	1.78

HSL5GHz is composed of the following ingredients:

Water: 50-65%

Mineral oil: 10-30%

Emulsifiers: 8-25%

Sodium salt: 0-1.5%

MSL5GHz is composed of the following ingredients:

Water: 64-78%

Mineral oil: 11-18%

Emulsifiers: 9-15%

Sodium salt: 2-3%



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6.1.2 Test Liquids Confirmation

Simulated tissue liquid parameter confirmation

The dielectric parameters were checked prior to assessment using the SPEAG DAK3.5 dielectric probe kit. The dielectric parameters measured are reported in each correspondent section.

IEEE SCC-34/SC-2 P1528 recommended tissue dielectric parameters

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations and extrapolated according to the head parameters specified in P1528

Target Frequency (MHz)	Head		Body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

(ϵ_r = relative permittivity, σ = conductivity and $\rho = 1000 \text{ kg/m}^3$)



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Page: 27 of 127

6.1.3 Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the SPEAG DAK3.5 dielectric probe kit in conjunction with Agilent E5071B Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22\pm 2^{\circ}\text{C}$.

Tissue Type	Measured Frequency (MHz)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Liquid Temp. ($^{\circ}\text{C}$)	Date
835 Head	835	0.92	42.45	0.90	41.50	2.22	2.29	± 5	21.8	2022.8.5
1800 Head	1800	1.39	40.12	1.40	40.00	-0.71	0.30	± 5	21.7	2022.8.6
1900 Head	1900	1.450	41.360	1.40	40.00	3.57	3.40	± 5	21.8	2022.8.8
2450 Head	2450	1.78	38.87	1.80	39.20	-1.11	-0.84	± 5	21.8	2022.8.9
2600 Head	2600	1.94	38.71	1.96	39.00	-1.02	-0.74	± 5	21.9	2022.8.10
5250 Head	5250	4.68	35.87	4.71	35.95	-0.64	-0.22	± 5	22.1	2022.8.11
5600 Head	5600	5.16	36.51	5.07	35.50	1.78	2.85	± 5	21.9	2022.8.12
5750 Head	5750	5.36	36.79	5.22	35.35	2.68	4.07	± 5	21.9	2022.8.13

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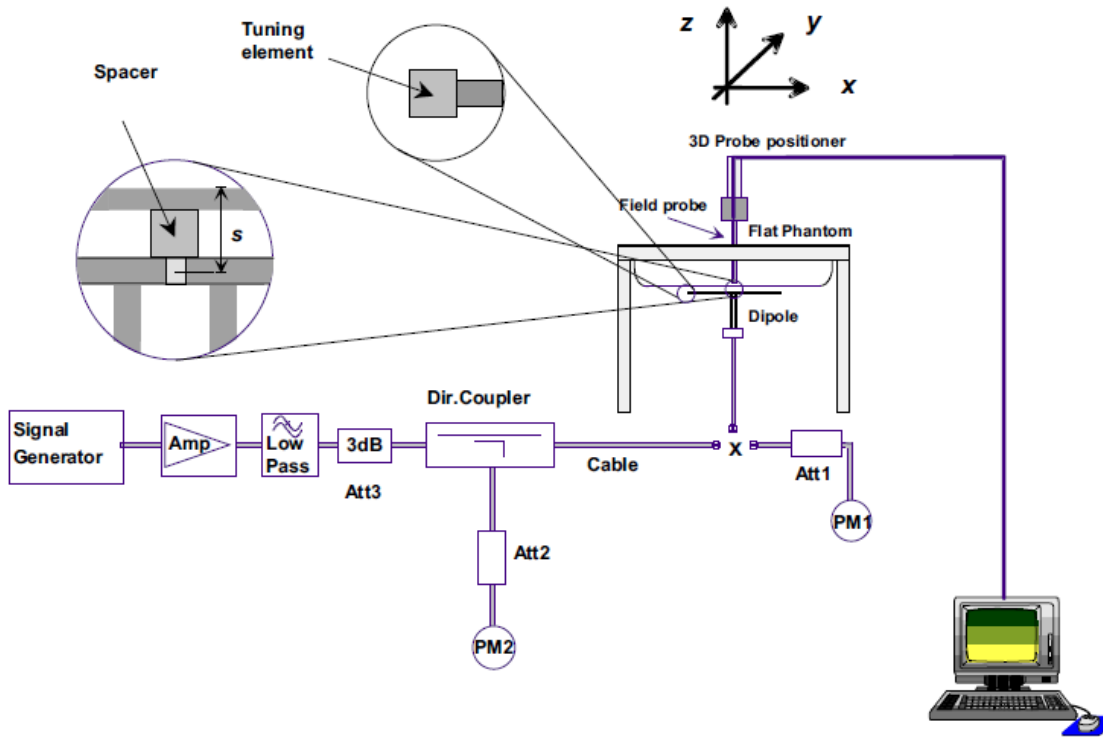
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6.2 SAR System Check

The microwave circuit arrangement for system check is sketched in bellow figure. 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. 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 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-2. the microwave circuit arrangement used for SAR system verification



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6.2.1 Justification for Extended SAR Dipole Calibrations

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

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

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

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6.2.2 Summary System Check Result(s)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1w)	Measured SAR (normalized to 1w)	Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%)	Liquid Temp. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D835V2	Head	2.15	1.48	8.6	5.92	9.40 (8.46~10.34)	6.12 (5.51~6.73)	21.8	2022.8.5
D1800V2	Head	9.67	4.95	38.68	19.8	38.9 (35.01~42.79)	20.4 (18.36~22.44)	21.7	2022.8.6
D1900V2	Head	10.3	4.87	41.2	19.48	40.0 (36.00~44.00)	20.3 (18.72~22.88)	21.8	2022.8.8
D2450V2	Head	13.15	5.89	52.6	23.56	53 (47.70~58.30)	24.7 (22.23~27.17)	21.8	2022.8.9
D2600V2	Head	14.1	6.19	56.4	24.76	54.8 (49.32~60.28)	24.5 (22.05~26.95)	21.9	2022.8.10
Validation Kit		Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1w)	Measured SAR (normalized to 1w)	Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%)	Liquid Temp. (°C)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D5GHzV2	Head(5.3 GHz)	8.07	2.12	80.7	21.2	79.1 (71.19~87.01)	22.6 (20.34~24.86)	22.1	2022.8.11
	Head(5.5 GHz)	8.42	2.25	84.2	22.5	82.86 (74.57~91.15)	22.9 (20.61~25.19)	21.9	2022.8.12
	Head(5.8 GHz)	8.18	2.32	81.8	23.2	76.7 (69.03~84.37)	21.5 (19.35~23.65)	21.9	2022.8.13

6.2.3 Detailed System Check Results

Please see the Appendix A

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7 Test Configuration

7.1 Operation Configurations

7.1.1 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 CMW500 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, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

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



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7.2 3G SAR Test Reduction Procedure

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

7.3 Operation Configurations

7.3.1 WCDMA Test Configuration

1) . Output Power Verification

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

2) . Head SAR

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

3) . Body SAR

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



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Report No.: KSCR220700116201

Page: 33 of 127

4) . HSDPA / HSUPA / DC-HSDPA

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

a) HSDPA

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

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Report No.: KSCR220700116201

Page: 34 of 127

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

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

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

Note3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

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

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Page: 35 of 127

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

b) HSUPA

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



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Page: 36 of 127

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hz} (1)	β_{ec}	β_{ed}	β_c (SF)	β_{ed} (code)	CM (dB)	MP R (dB)	AG ⁽⁴⁾ Index	E-TFC I
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	$\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$	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: ΔACK , $\Delta NACK$ and $\Delta CQI = 8$ $A_{hz} = \beta_{hz}/\beta_c = 30/15$ $\beta_{hz} = 30/15 * \beta_c$
 Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hz}/\beta_c = 24/15$. 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.

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



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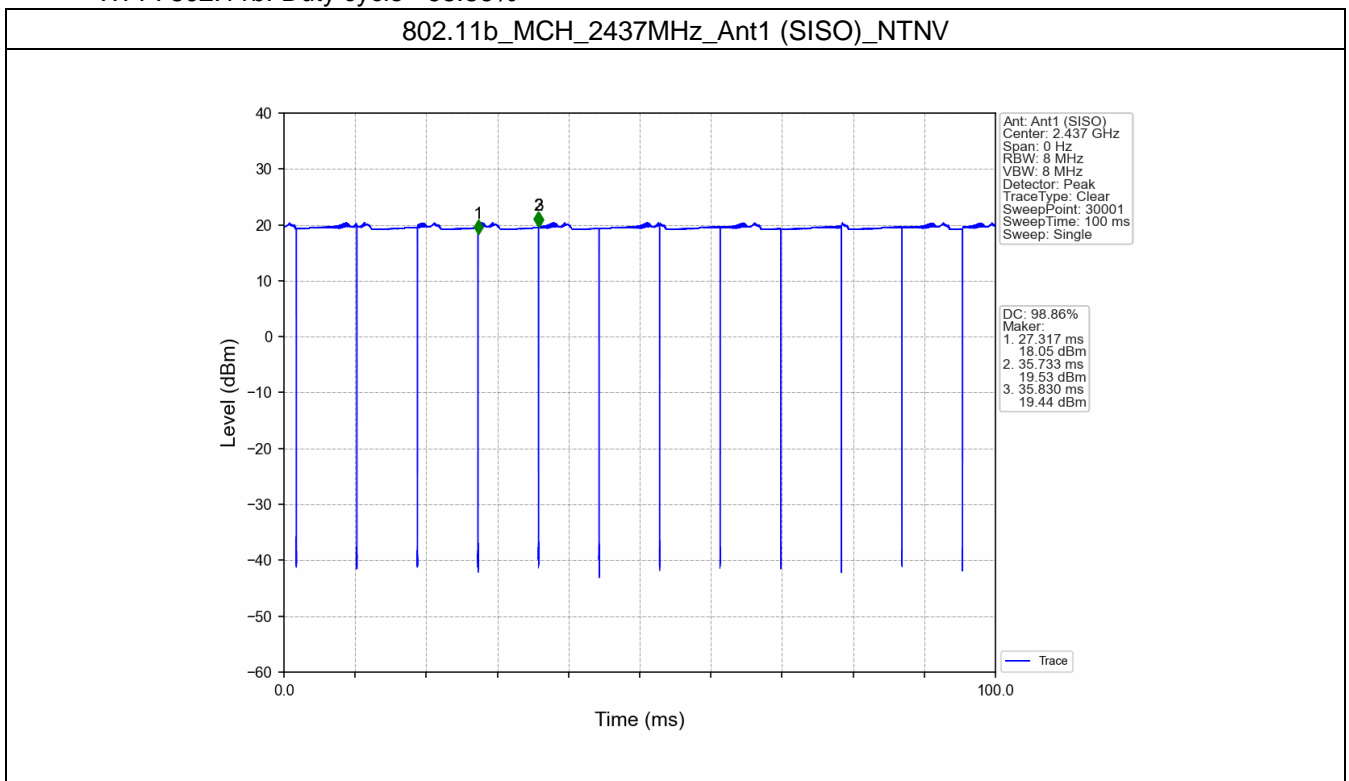
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7.3.2 Wi-Fi Test Configuration

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.

7.3.2.1 Duty cycle

- 2.4GHz Wi-Fi:
Wi-Fi 802.11b: Duty cycle= 98.86%



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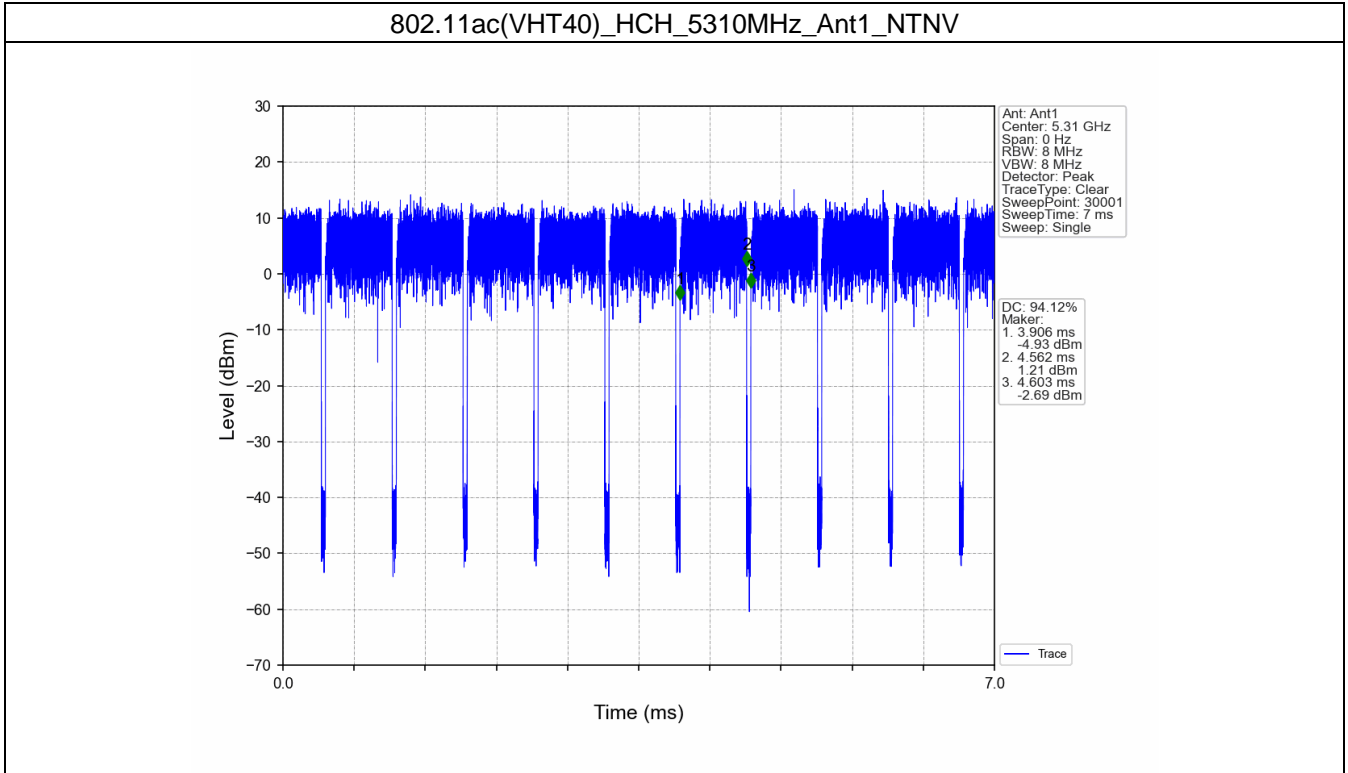
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2) 5GHz Wi-Fi:
 WI-FI 802.11a: Duty cycle= 94.12%



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7.3.2.2

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.

7.3.2.3 Initial Test Configuration Procedures

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

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

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

7.3.2.4 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency

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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”

7.3.2.5 2.4 GHz Wi-Fi 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

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Report No.: KSCR220700116201

Page: 41 of 127

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.



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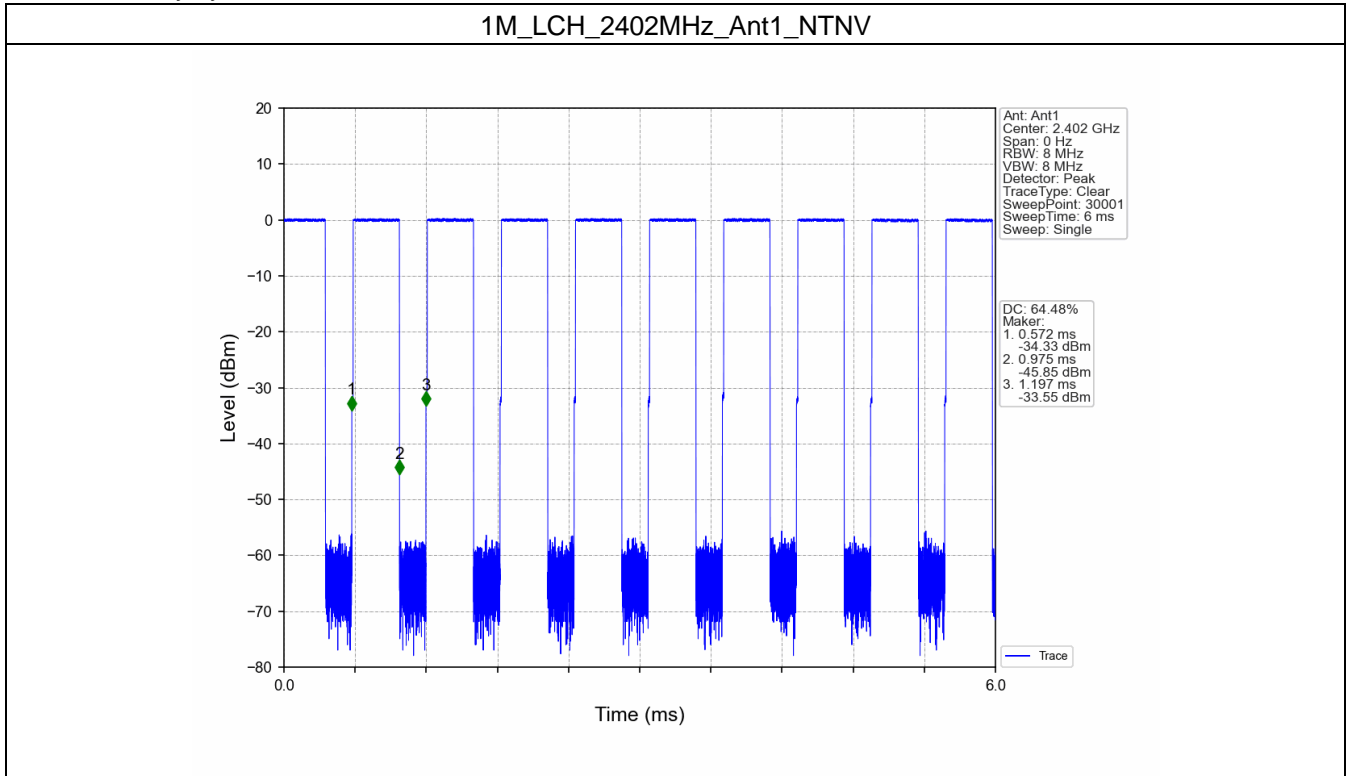
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7.3.3 BluetoothTest Configuration

For the Bluetooth SAR tests, a communication link is set up with the test mode software for BT mode test. Bluetooth USES frequency hopping technology to divide the transmitted data into packets and transmit the packets respectively through 79 designated Bluetooth channels, 1MHz Bandwidth, frequency hops at 1600 hops/second per the Bluetooth standard. The Radio Frequency Channel Number (RFCN) is allocated to 0, 39 and 78 respectively in the case of 2402~2480 MHz during the test at each test frequency channel, the EUT is operated at the RF continuous emission mode.

7.3.3.1 Duty cycle

Bluetooth duty cycle: 64.68



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7.3.4 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 R&S CMW500 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.

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 V13.5.0 (201609) Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

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



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Report No.: KSCR220700116201

Page: 44 of 127

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..



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8 Test Result

8.1 Measurement of RF Conducted Power

8.1.1 Conducted Power Of GSM

GSM 850										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel	128	190	251	128			190	251		
GPRS/EGPRS (GMSK)	1 TX Slot	32.71	32.74	32.47	33.0	-9.03	23.68	23.71	23.44	23.97
	2 TX Slots	32.41	32.62	32.24	33.0	-6.02	26.39	26.6	26.22	26.98
	3 TX Slots	29.97	30.08	29.72	31.0	-4.26	25.71	25.82	25.46	26.74
	4 TX Slots	28.71	28.8	28.51	29.0	-3.01	25.7	25.79	25.5	25.99
EGPRS(8PSK)	1 TX Slot	27.26	27.29	27.97	28.0	-9.03	18.23	18.26	18.94	18.97
	2 TX Slots	26.27	26.1	25.98	26.5	-6.02	20.25	20.08	19.96	20.48
	3 TX Slots	24.29	23.99	23.74	24.5	-4.26	20.03	19.73	19.48	20.24
	4 TX Slots	23.02	22.87	22.62	23.5	-3.01	20.01	19.86	19.61	20.49
GSM 1900										
Burst Output Power(dBm)					Tune up	Division Factors	Frame-Average Output Power(dBm)			Tune up
Channel	512	661	810	512			661	810		
GPRS/EGPRS (GMSK)	1 TX Slot	30.16	29.99	30.14	30.5	-9.03	21.13	20.96	21.11	21.47
	2 TX Slots	29.16	29.61	29.86	30.0	-6.02	23.14	23.59	23.84	23.98
	3 TX Slots	27.21	27.3	27.53	28.0	-4.26	22.95	23.04	23.27	23.74
	4 TX Slots	26.04	26.06	26.47	26.5	-3.01	23.03	23.05	23.46	23.49
EGPRS(8PSK)	1 TX Slot	25.7	26.99	27.2	27.5	-9.03	16.67	17.96	18.17	18.47
	2 TX Slots	25.06	24.89	25.05	25.5	-6.02	19.04	18.87	19.03	19.48
	3 TX Slots	22.83	22.82	22.94	23.0	-4.26	18.57	18.56	18.68	18.74



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8.1.2 Conducted Power Of WCDMA

WCDMA Band II					
Average Conducted Power(dBm)					
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	23.28	23.24	23.18	23.5
HSDPA	Subtest 1	21.76	21.51	21.94	22.0
	Subtest 2	21.83	21.63	21.95	22.0
	Subtest 3	21.81	21.54	21.83	22.0
	Subtest 4	21.79	21.6	21.86	22.0
HSUPA	Subtest 1	21	19.47	19.37	21.0
	Subtest 2	19.53	19.17	20.9	21.0
	Subtest 3	20.77	19.44	19.31	21.0
	Subtest 4	20.99	20.72	19.13	21.0
	Subtest 5	20.78	19.6	19.56	21.0
WCDMA Band IV					
Average Conducted Power(dBm)					
Channel		1312	1412	1513	Tune up
WCDMA	12.2kbps RMC	23.19	23.12	22.92	23.5
HSDPA	Subtest 1	21.48	21.29	21.21	22.0
	Subtest 2	21.43	21.31	21.2	22.0
	Subtest 3	21.56	21.29	21.13	22.0
	Subtest 4	21.61	21.37	21.17	22.0
HSUPA	Subtest 1	19.79	19.82	19.75	20.5
	Subtest 2	19.91	19.73	19.8	20.5
	Subtest 3	19.71	19.91	19.8	20.5
	Subtest 4	20.18	19.43	19.91	20.5
	Subtest 5	20.17	19.52	19.7	20.5
WCDMA Band V					
Average Conducted Power(dBm)					
Channel		4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	23.43	23.63	23.74	24.0
HSDPA	Subtest 1	21.64	21.77	21.91	22.5
	Subtest 2	21.69	21.88	22.23	22.5
	Subtest 3	21.72	21.94	22.05	22.5
	Subtest 4	21.95	22.01	22.36	22.5
HSUPA	Subtest 1	20.08	20.41	20.71	21.0
	Subtest 2	20.33	20.06	20.66	21.0
	Subtest 3	20.52	20.62	20.73	21.0
	Subtest 4	20.51	20.17	20.33	21.0
	Subtest 5	20.04	20.62	20.75	21.0



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 47 of 127

8.1.3 Conducted Power Of LTE

LTE Band 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	22.88	23.05	22.97	23.5
		1	2	23.07	23.09	23.15	23.5
		1	5	23.08	22.91	22.94	23.5
		3	0	23.07	22.86	22.92	23.5
		3	2	22.89	22.93	23.01	23.5
		3	3	22.99	22.77	22.87	23.5
	16QAM	6	0	21.91	21.75	21.93	23.5
		1	0	22.05	22.34	22.05	23.0
		1	2	22.21	22.66	22.15	23.0
		1	5	22.09	22.25	21.48	23.0
		3	0	22.06	21.76	22.1	23.0
		3	2	22.19	21.89	21.99	23.0
		3	3	22.16	21.81	22	23.0
		6	0	20.84	20.97	20.91	22.0
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18615	18900	19185	
3MHz	QPSK	1	0	22.65	22.85	22.85	23.5
		1	7	23.04	23.01	22.95	23.5
		1	14	23.18	22.92	22.77	23.5
		8	0	22.08	21.86	21.98	23.5
		8	4	22.09	21.81	21.94	23.5
		8	7	22.01	21.73	21.92	23.5
	16QAM	15	0	21.94	21.9	22.01	23.5
		1	0	22.38	21.97	23.08	23.5
		1	7	22.9	21.6	22.09	23.5
		1	14	22.43	21.92	22.25	23.5
		8	0	20.8	20.69	20.8	22.0
		8	4	20.8	20.96	21.38	22.0
		8	7	20.71	21	21.17	22.0
		15	0	20.84	20.92	20.86	21.0
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	22.79	22.52	22.6	23.5
		1	13	22.81	22.44	22.44	23.5
		1	24	22.86	22.71	22.54	23.5
		12	0	21.85	21.76	21.78	22.5



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 48 of 127

	16QAM	12	6	21.87	21.66	21.91	22.5		
		12	13	21.98	21.65	21.77	22.5		
		25	0	21.82	21.74	21.86	22.5		
		1	0	21.12	21.4	21.8	22.5		
		1	13	21.09	22.09	21.83	22.5		
		1	24	21.35	22.03	21.72	22.5		
		12	0	20.83	20.7	20.78	21.5		
		12	6	20.85	20.59	20.6	21.5		
		12	13	20.86	20.65	20.6	21.5		
		25	0	20.83	20.74	20.88	21.5		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
				18650	18900	19150			
10MHz	QPSK	1	0	23.15	22.54	22.95	23.5		
		1	25	23.1	22.68	23.05	23.5		
		1	49	22.97	22.58	22.62	23.5		
		25	0	21.79	21.7	21.84	22.5		
		25	13	21.86	21.64	21.66	22.5		
		25	25	21.81	21.66	21.81	22.5		
		50	0	21.81	21.83	21.72	22.5		
	16QAM	1	0	22.2	22.26	22.46	22.5		
		1	25	22.22	22.25	22.49	22.5		
		1	49	22.12	22.22	21.59	22.5		
		25	0	20.93	20.9	21	21.5		
		25	13	20.95	20.6	20.81	21.5		
		25	25	20.83	20.73	20.55	21.5		
		50	0	20.93	20.81	20.84	21.5		
		Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
						18675	18900	19125	
15MHz	QPSK	1	0	23.32	22.66	22.5	23.5		
		1	38	22.85	22.55	22.7	23.5		
		1	74	22.81	22.33	22.64	23.5		
		36	0	21.77	21.53	21.5	22.5		
		36	18	21.73	21.5	21.67	22.5		
		36	39	21.76	21.44	21.49	22.5		
		75	0	21.6	21.62	21.59	22.5		
	16QAM	1	0	22.26	21.87	21.63	22.5		
		1	38	22.68	21.89	21.81	22.5		
		1	74	22.23	21.87	21.4	22.5		
		36	0	20.58	20.67	20.6	21.5		
		36	18	20.65	20.49	20.76	21.5		
		36	39	20.79	20.37	20.6	21.5		

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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 49 of 127

Bandwidth	Modulation	75	0	20.61	20.69	20.61	21.5
		RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	QPSK	1	0	18700	18900	19100	
		1	50	22.84	22.68	22.62	23.5
		1	99	22.86	22.68	23.24	23.5
		50	0	22.46	22.49	22.67	23.5
		50	25	21.61	21.58	21.67	22.5
		50	50	21.73	21.55	21.68	22.5
	16QAM	100	0	21.67	21.62	21.76	22.5
		1	0	21.52	21.65	21.79	22.5
		1	50	21.58	21.63	21.79	22.5
		1	99	22.26	21.2	22.05	22.5
		50	0	22.08	21.02	21.12	22.5
		50	25	20.75	20.79	20.67	21.5
		50	50	20.82	20.64	20.7	21.5
		100	0	20.74	21.08	20.71	21.5
				20.83	20.78	20.63	21.5

LTE Band 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	22.26	22.25	22.09	23.0
		1	2	22.22	22.39	22.29	23.0
		1	5	22.42	22.34	22.22	23.0
		3	0	22.21	22.21	22.06	23.0
		3	2	22.29	22.26	22.19	23.0
		3	3	22.35	22.25	22.23	23.0
	16QAM	6	0	21.24	21.19	21.12	22.0
		1	0	21.29	21.06	21.29	22.0
		1	2	21.76	21.19	21.61	22.0
		1	5	21.69	21.01	21.26	22.0
		3	0	21.32	21.38	21.23	22.0
		3	2	21.44	21.33	21.41	22.0
		3	3	21.4	21.39	21.36	22.0
		6	0	20.21	20.32	20.18	21.0
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19965	20175	20385	
3MHz	QPSK	1	0	22.32	22.39	22.16	23
		1	7	22.54	22.31	22.36	23
		1	14	22.58	22.24	22.2	23

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Report No.: KSCR220700116201

Page: 50 of 127

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
				19975	20175	20375			
5MHz	16QAM	8	0	21.55	21.36	21.18	22		
		8	4	21.53	21.42	21.23	22		
		8	7	21.53	21.42	21.18	22		
		15	0	21.48	21.39	21.19	22		
		1	0	21.32	21.19	21.68	22		
		1	7	21.6	21.15	21.63	22		
		1	14	21.65	21.23	21.75	22		
		8	0	20.28	20.27	20.21	21		
		8	4	20.42	20.34	20.48	21		
	8	7	20.41	20.55	20.43	21			
	15	0	20.35	20.38	20.24	21			
	QPSK	1	0	22.25	22.03	21.98	23		
		1	13	22.27	22.07	22.03	23		
		1	24	22.31	22.22	22.5	23		
		12	0	21.41	21.24	21.05	22		
		12	6	21.39	21.3	21.13	22		
		12	13	21.29	21.28	21.32	22		
		25	0	21.36	21.3	21.18	22		
16QAM		1	0	21.11	20.97	21.08	22		
		1	13	21.07	21.6	21.17	22		
		1	24	21	21.83	21.56	22		
		12	0	20.04	20.25	20.22	21		
		12	6	20.45	20.11	20.21	21		
		12	13	20.37	20.29	20.3	21		
		25	0	20.46	20.27	20.27	21		
		10MHz	QPSK	1	0	22.5	22.31	22.23	23
1	25			22.69	22.02	22.54	23		
1	49			22.65	21.96	22.37	23		
25	0			21.4	21.33	21.12	22		
25	13			21.54	21.24	21.38	22		
25	25			21.45	21.16	21.32	22		
50	0			21.4	21.25	21.16	22		
16QAM	1			0	21.7	21.45	21.62	22	
	1			25	21.49	21.32	21.87	22	
	1		49	21.44	21.1	21.83	22		
	25		0	20.56	20.31	20.22	21		
	25		13	20.61	20.35	20.45	21		
	5MHz		16QAM	1	0	22.25	22.03	21.98	23
				1	13	22.27	22.07	22.03	23
				1	24	22.31	22.22	22.5	23
				12	0	21.41	21.24	21.05	22
12				6	21.39	21.3	21.13	22	
12				13	21.29	21.28	21.32	22	
25		0		21.36	21.3	21.18	22		
QPSK		1		0	21.11	20.97	21.08	22	
		1		13	21.07	21.6	21.17	22	
		1	24	21	21.83	21.56	22		
		12	0	20.04	20.25	20.22	21		
		12	6	20.45	20.11	20.21	21		
		12	13	20.37	20.29	20.3	21		
		25	0	20.46	20.27	20.27	21		
		10MHz	QPSK	1	0	22.5	22.31	22.23	23
				1	25	22.69	22.02	22.54	23
1				49	22.65	21.96	22.37	23	
25				0	21.4	21.33	21.12	22	
25	13			21.54	21.24	21.38	22		
25	25			21.45	21.16	21.32	22		
50	0			21.4	21.25	21.16	22		
16QAM	1			0	21.7	21.45	21.62	22	
	1			25	21.49	21.32	21.87	22	
	1		49	21.44	21.1	21.83	22		
	25		0	20.56	20.31	20.22	21		
	25		13	20.61	20.35	20.45	21		

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Report No.: KSCR220700116201

Page: 51 of 127

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	25	25	20.53	20.27	20.38	21
		50	0	20.32	20.31	20.23	21
		1	0	22.48	22.5	22.39	23
		1	38	22.3	22.14	22.45	23
		1	74	22.12	22.32	22.57	23
		36	0	21.28	21.57	21.29	22
	16QAM	36	18	21.35	21.43	21.4	22
		36	39	21.09	21.32	21.46	22
		75	0	21.18	21.52	21.25	22
		1	0	22.05	22.32	21.8	22
		1	38	21.91	21.95	21.73	22
		1	74	22.07	21.84	21.93	22
		36	0	20.72	20.54	20.18	21
		36	18	20.74	20.28	20.46	21
20MHz	QPSK	36	39	20.68	20.13	20.52	21
		75	0	20.67	20.52	20.31	21
		1	0	22.51	22.69	22.79	23
		1	50	22.58	22.32	22.73	23
		1	99	22.41	22.35	22.77	23
		50	0	21.66	21.51	21.42	22
	16QAM	50	25	21.48	21.4	21.42	22
		50	50	21.37	21.2	21.4	22
		100	0	21.65	21.5	21.4	22
		1	0	21.49	21	21.72	22
		1	50	22.3	21.29	22.31	22
		1	99	21.78	21.17	22.92	22
		50	0	20.71	20.5	20.28	21
		50	25	20.53	20.29	20.42	21
LTE Band 5	QPSK	50	50	20.36	20.24	20.25	21
		100	0	20.59	20.47	20.35	21

LTE Band 5				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20407	20525	20643	
1.4MHz	QPSK	1	0	22.95	22.51	22.65	23
		1	2	22.72	22.69	22.83	23

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Report No.: KSCR220700116201

Page: 52 of 127

		1	5	22.54	22.6	22.6	23		
		3	0	22.77	22.51	22.76	23		
		3	2	22.82	22.61	22.66	23		
		3	3	22.77	22.66	22.66	23		
		6	0	21.75	21.56	21.67	23		
	16QAM	1	0	22.3	21.22	22.05	23		
		1	2	22.42	21.31	22.2	23		
		1	5	22.29	21.39	22.23	23		
		3	0	21.81	21.11	21.74	22		
		3	2	21.88	21.59	21.67	22		
		3	3	21.85	21.54	21.69	22		
		6	0	20.92	20.4	20.77	21		
		Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
						20415	20525	20635	
3MHz	QPSK	1	0	22.8	22.41	22.9	23		
		1	7	22.9	22.63	22.77	23		
		1	14	22.71	22.74	22.66	23		
		8	0	21.78	21.69	21.71	22.5		
		8	4	21.86	21.71	21.75	22.5		
		8	7	21.83	21.63	21.73	22.5		
	16QAM	15	0	21.82	21.57	21.72	22.5		
		1	0	22.5	22.05	22.03	22.5		
		1	7	22.36	22.03	21.81	22.5		
		1	14	22.31	22.06	21.94	22.5		
		8	0	20.97	20.52	20.62	21.5		
		8	4	21.06	20.49	20.59	21.5		
		8	7	21.03	20.48	20.47	21.5		
		15	0	20.91	20.43	20.65	21.5		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
				20425	20525	20625			
5MHz	QPSK	1	0	22.7	22.39	22.5	23		
		1	13	22.61	22.23	22.54	23		
		1	24	22.58	22.44	22.48	23		
		12	0	21.84	21.51	21.86	22		
		12	6	21.77	21.63	21.74	22		
		12	13	21.61	21.56	21.6	22		
	16QAM	25	0	21.76	21.47	21.73	22		
		1	0	21.42	21.34	21.57	22		
		1	13	21.37	21.54	21.84	22		
		1	24	21.87	22.06	21.66	22		
		12	0	20.61	20.3	20.9	21		

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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 53 of 127

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20450	20525	20600	
10MHz	QPSK	12	6	20.51	20.46	20.72	21
		12	13	20.67	20.53	20.56	21
		25	0	20.86	20.35	20.71	21
		1	0	22.87	22.62	22.59	23
		1	25	22.91	22.72	22.91	23
		1	49	22.51	22.78	22.47	23
		25	0	21.85	21.58	21.83	22.5
	16QAM	25	13	21.65	21.65	21.79	22.5
		25	25	21.69	21.77	21.73	22.5
		50	0	21.79	21.59	21.82	22.5
		1	0	22.21	21.26	21.81	22.5
		1	25	22.3	21.8	21.98	22.5
		1	49	21.59	22.35	21.51	22.5
		25	0	20.76	20.53	20.84	21.5
		25	13	20.72	20.54	21.02	21.5
	25	25	20.51	20.91	20.86	21.5	
	50	0	20.85	20.66	20.81	21.5	

LTE Band 7				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	23.04	22.34	22.46	23.5
		1	13	22.76	22.48	22.44	23.5
		1	24	22.58	22.26	22.25	23.5
		12	0	21.89	21.71	21.63	22.5
		12	6	22.01	21.61	21.67	22.5
		12	13	21.89	21.58	21.74	22.5
	16QAM	25	0	21.95	21.66	21.68	22.5
		1	0	22.05	21.36	21.42	22.5
		1	13	21.68	21.07	22.45	22.5
		1	24	21.74	20.98	22.12	22.5
		12	0	20.96	20.74	20.68	21.5
		12	6	20.87	20.69	20.65	21.5
		12	13	20.78	20.65	20.63	21.5
		25	0	20.91	20.76	20.73	21.5
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	
10MHz	QPSK	1	0	22.84	22.74	22.81	23.5



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 54 of 127

	16QAM	1	25	22.78	22.38	22.95	23.5
		1	49	22.75	22.44	22.51	23.5
		25	0	21.97	21.75	21.71	22.5
		25	13	21.85	21.56	21.73	22.5
		25	25	21.93	21.52	21.66	22.5
		50	0	21.87	21.66	21.74	22.5
		1	0	22.16	22.33	21.55	22.5
		1	25	22.13	22.04	22.45	22.5
		1	49	21.78	22.1	21.58	22.5
		25	0	21.08	20.82	20.83	21.5
		25	13	20.86	20.85	21.07	21.5
		25	25	20.95	20.46	20.84	21.5
50	0	20.81	20.65	20.82	21.5		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	22.77	22.78	22.63	23.5
		1	38	22.64	22.37	22.62	23.5
		1	74	22.74	22.3	22.36	23.5
		36	0	21.78	21.74	21.78	22.5
		36	18	21.9	21.6	21.58	22.5
		36	39	21.9	21.47	21.66	22.5
	16QAM	75	0	21.72	21.67	21.77	22.5
		1	0	22.3	21.38	21.99	22.5
		1	38	22.05	22.17	21.84	22.5
		1	74	22.21	22.01	20.92	22.5
		36	0	20.67	20.98	20.91	21.5
		36	18	20.98	20.6	20.87	21.5
		36	39	20.96	20.48	20.62	21.5
		75	0	20.69	20.77	20.74	21.5
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	0	22.56	22.78	22.58	23.5
		1	50	22.95	22.62	22.84	23.5
		1	99	22.48	22.61	22.35	23.5
		50	0	21.81	21.78	21.79	22.5
		50	25	21.92	21.59	21.84	22.5
		50	50	21.81	21.53	21.61	22.5
	16QAM	100	0	21.73	21.7	21.76	22.5
		1	0	22.13	21.74	22.38	22.5
		1	50	22.43	21.61	22.96	22.5
		1	99	22.33	21.14	22.45	22.5

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Report No.: KSCR220700116201

Page: 55 of 127

		50	0	20.69	20.9	20.64	21.5
		50	25	21.05	20.59	20.89	21.5
		50	50	20.92	20.53	20.64	21.5
		100	0	20.7	20.71	20.75	21.5

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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 56 of 127

LTE Band 66				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131979	132322	132665	
1.4MHz	QPSK	1	0	22.38	21.93	22.73	23
		1	2	22.56	22.06	22.73	23
		1	5	22.17	21.91	22.26	23
		3	0	22.21	21.92	22.39	23
		3	2	22.19	21.96	22.63	23
		3	3	22.27	22.11	22.55	23
		6	0	21.02	20.95	21.34	22
	16QAM	1	0	21.32	21.52	21.56	22
		1	2	21.42	21.94	21.93	22
		1	5	21.32	21.86	21.74	22
		3	0	21.24	21.24	21.68	22
		3	2	21.04	21.3	21.73	22
		3	3	21.28	21.16	21.67	22
		6	0	20.14	20.11	20.36	21
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131987	132322	132657	
3MHz	QPSK	1	0	22.36	22.1	22.43	23
		1	7	22.38	21.97	22.51	23
		1	14	22.29	22.23	22.36	23
		8	0	21.23	20.97	21.32	22
		8	4	21.28	21.01	21.46	22
		8	7	21.3	21.08	21.42	22
		15	0	21.22	20.98	21.31	22
	16QAM	1	0	21.55	21.51	21.41	22
		1	7	21.62	21.6	21.35	22
		1	14	21.76	21.72	21.4	22
		8	0	20.26	19.96	20.3	21
		8	4	20.31	20.03	20.37	21
		8	7	20.36	20.08	20.35	21
		15	0	20.17	19.98	20.34	21
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				131997	132322	132647	
5MHz	QPSK	1	0	22.05	21.74	22.09	23
		1	13	22.18	21.87	22.28	23
		1	24	22.16	21.84	22.3	23
		12	0	21.08	20.96	21.2	22
		12	6	21.07	20.95	21.34	22

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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 57 of 127

	16QAM	12	13	21.11	20.95	21.47	22
		25	0	21.01	20.85	21.56	22
		1	0	20.76	21.35	21.08	22
		1	13	20.49	21.46	21.16	22
		1	24	21.16	21.69	21.35	22
		12	0	20.07	19.92	20.28	21
		12	6	20.09	19.83	20.37	21
		12	13	20.14	19.92	20.24	21
		25	0	20.24	19.98	20.28	21
Bandwidth	Modulation	RB size	RB offset	Channel 132022	Channel 132322	Channel 132622	Tune up
10MHz	QPSK	1	0	22.27	22.24	22.25	23
		1	25	22.14	22.22	22.42	23
		1	49	21.96	22.07	22.69	23
		25	0	21.21	21.06	21.36	22
		25	13	21.12	21.09	21.2	22
		25	25	21.03	21.06	21.25	22
	16QAM	50	0	21.13	20.98	21.39	22
		1	0	21.78	21.52	21.21	22
		1	25	21.78	21.68	21.27	22
		1	49	21.15	21.36	20.98	22
		25	0	20.25	20.04	20.46	21
		25	13	20.04	20.1	20.34	21
		25	25	20.11	20.21	20.49	21
		50	0	20.1	20.01	20.1	21
		Bandwidth	Modulation	RB size	RB offset	Channel 132047	Channel 132322
15MHz	QPSK	1	0	22.27	22.15	22.26	23
		1	38	22.12	22.14	22.06	23
		1	74	22.41	22.16	22.16	23
		36	0	21.22	21.11	21.34	22
		36	18	21.01	21.09	21.24	22
		36	39	20.94	21.08	21.14	22
	16QAM	75	0	21.08	21.08	21.4	22
		1	0	21.92	21.82	21.6	22
		1	38	21.58	21.63	20.85	22
		1	74	20.91	22.3	21.33	22
		36	0	20.14	20.01	20.41	21
		36	18	20.2	20.25	20.18	21
		36	39	20.1	20.26	20.3	21
		75	0	20.03	20.13	20.16	21

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Report No.: KSCR220700116201

Page: 58 of 127

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				132072	132322	132572	
20MHz	QPSK	1	0	22.04	22.33	21.94	23
		1	50	22.3	22.36	22.04	23
		1	99	22.07	22.42	22.33	23
		50	0	21.14	21.06	21.34	22
		50	25	21.01	21.14	21.35	22
		50	50	20.99	21.05	21.34	22
	16QAM	100	0	21.12	21.05	21.43	22
		1	0	21.52	21.17	21.99	22
		1	50	21.97	21.21	22.33	22
		1	99	20.82	21.2	22.53	22
		50	0	20.36	20.06	20.25	21
		50	25	20.22	20.18	20.23	21
		50	50	20.01	20.26	20.1	21
		100	0	20.15	20.09	20.23	21



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8.1.4 Conducted Power Of Wi-Fi and BT

Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	15.62	16
	6	2437		15.6	16
	11	2462		15.44	16
802.11g	1	2412	6	15.7	16
	6	2437		15.61	16
	11	2462		15.41	16
802.11n HT20 SISO	1	2412	6.5	16.38	17
	6	2437		16.24	17
	11	2462		16.37	17

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11a	U-NII-1	36	5180	6	11.54	12
		40	5200		11.32	12
		48	5240		10.67	12
	U-NII-2A	52	5260		10.23	12
		60	5300		10.46	12
		64	5320		10.23	12
	U-NII-2C	100	5500		9.76	10
		116	5580		8.92	10
		140	5700		8.53	10
	U-NII-3	149	5745		8.97	10
		157	5785		8.52	10
		165	5825		9.4	10
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11n-HT20	U-NII-1	36	5180	MCS0	11.38	12
		40	5200		11	12
		48	5240		10.3	12
	U-NII-2A	52	5260		10.91	12
		60	5300		10.04	12
		64	5320		10.86	12
	U-NII-2C	100	5500		9.15	10

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Report No.: KSCR220700116201

Page: 60 of 127

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	U-NII-3	116	5580		8.61	10
		140	5700		9.07	10
		149	5745		8.43	10
		157	5785		8.17	10
		165	5825		8.88	10
802.11n-HT40	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	U-NII-1	38	5190	MCS0	10.94	12
		46	5230		10.09	12
	U-NII-2A	54	5270		10.59	12
		62	5310		10.97	12
	U-NII-2C	102	5510		9.34	10
		110	5550		8.62	10
		134	5670		9.36	10
		151	5755		8.53	10
	U-NII-3	159	5795		8.43	10
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac 20M	U-NII-1	36	5180	MCS0	11.51	12
		40	5200		11.05	12
		48	5240		10.41	12
	U-NII-2A	52	5260		10.97	12
		60	5300		10.12	12
		64	5320		11	12
	U-NII-2C	100	5500		9.12	10
		116	5580		8.55	10
		140	5700		8.99	10
		149	5745		8.54	10
	U-NII-3	157	5785		8.14	10
		165	5825		8.85	10
	5GHz	mode	Channel		Frequency(MHz)	Data Rate(Mbps)
802.11ac 40M	U-NII-1	38	5190	MCS0	10.92	12
		46	5230		10.32	12
	U-NII-2A	54	5270		10.56	12
		62	5310		10.86	12
	U-NII-2C	102	5510		9.14	10
		110	5550		8.64	10

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Report No.: KSCR220700116201

Page: 61 of 127

5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	9.44	10
					Average Power (dBm)	Tune up
802.11ac 80M	U-NII-3	134	5670	MCS0	8.77	10
		151	5755		8.62	10
		159	5795			
	U-NII-1	42	5210		10.31	11
		58	5290		10.21	11
U-NII-2C	106	5530	8.8	10		
	122	5610	8.95	10		
U-NII-3	155	5775	8.4	10		

Note:

- a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.
- b) 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.
- c) 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.

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Report No.: KSCR220700116201

Page: 62 of 127

BT			Average Conducted Power(dBm)	Tune up (dBm)
Modulation	Channel	Frequency (MHz)		
GFSK	0	2402	2.43	3
	39	2441	2.48	3
	78	2480	1.02	3
π/4DQPSK	0	2402	-0.24	1
	39	2441	-0.35	1
	78	2480	-0.98	1
8DPSK	0	2402	0.24	1
	39	2441	0.11	1
	78	2480	-0.87	1

BLE			Average Conducted Power(dBm)	Tune up (dBm)
Modulation	Channel	Frequency (MHz)		
GFSK	0	2402	0.05	1
	19	2440	0.49	1
	39	2480	-0.99	1



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8.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2) Per FCC KDB Publication 447498 D04, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg (2.0W/kg for 10g) then testing at the other channels is not required for such test configuration(s).

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 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.

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EMC Laboratory

8.2.1 SAR Result Of GSM 850

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 (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
Body Test data with SIM1(Separate 10mm)												
Front side	GPRS 2TS	190/836.6	1:4.15	0.067	0.044	-0.08	32.74	33.0	1.062	0.071	22.1	1.6
Back side	GPRS 2TS	190/836.6	1:4.15	0.591	0.341	0.03	32.74	33.0	1.062	0.627	22.1	1.6
Left side	GPRS 2TS	190/836.6	1:4.15	0.176	0.114	-0.06	32.74	33.0	1.062	0.187	22.1	1.6
Right side	GPRS 2TS	190/836.6	1:4.15	0.236	0.156	-0.08	32.74	33.0	1.062	0.251	22.1	1.6
Top side	GPRS 2TS	190/836.6	1:4.15	0.008	0.005	-0.13	32.74	33.0	1.062	0.008	22.1	1.6
Bottom side	GPRS 2TS	190/836.6	1:4.15	0.127	0.077	0.13	32.74	33.0	1.062	0.135	22.1	1.6

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 (W/kg) 10-g	Liquid Temp	SAR limit (W/kg) 10-g
Extremity Test data with SIM1(Separate 0mm)												
Front side	GPRS 2TS	190/836.6	1:2.075	0.215	0.141	-0.1	32.74	33.0	1.062	0.150	22.1	4.0
Back side	GPRS 2TS	190/836.6	1:2.075	1.87	1.08	-0.1	32.74	33.0	1.062	1.147	22.1	4.0
Left side	GPRS 2TS	190/836.6	1:2.075	0.557	0.361	-0.04	32.74	33.0	1.062	0.383	22.1	4.0
Right side	GPRS 2TS	190/836.6	1:2.075	0.749	0.494	-0.01	32.74	33.0	1.062	0.524	22.1	4.0
Top side	GPRS 2TS	190/836.6	1:2.075	0.027	0.018	0.11	32.74	33.0	1.062	0.019	22.1	4.0
Bottom side	GPRS 2TS	190/836.6	1:2.075	0.402	0.244	-0.14	32.74	33.0	1.062	0.259	22.1	4.0

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8.2.2 SAR Result Of GSM 1900

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 (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
Body Test data with SIM1(Separate 10mm)												
Front side	GPRS 2TS	810/1909.8	1:2.075	0.287	0.125	-0.05	29.86	30.0	1.033	0.296	22.3	1.6
Back side	GPRS 2TS	810/1909.8	1:2.075	0.736	0.328	0.01	29.86	30.0	1.033	0.760	22.3	1.6
Left side	GPRS 2TS	810/1909.8	1:2.075	0.468	0.249	-0.16	29.86	30.0	1.033	0.483	22.3	1.6
Right side	GPRS 2TS	810/1909.8	1:2.075	0.115	0.059	-0.01	29.86	30.0	1.033	0.119	22.3	1.6
Top side	GPRS 2TS	810/1909.8	1:2.075	0.073	0.036	-0.01	29.86	30.0	1.033	0.075	22.3	1.6
Bottom side	GPRS 2TS	810/1909.8	1:2.075	0.547	0.262	-0.04	29.86	30.0	1.033	0.565	22.3	1.6

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 (W/kg) 10-g	Liquid Temp	SAR limit (W/kg) 10-g
Extremity Test data with SIM1(Separate 0mm)												
Front side	GPRS 2TS	810/1909.8	1:2.075	0.909	0.398	0.18	29.86	30.0	1.033	0.411	22.3	4.0
Back side	GPRS 2TS	810/1909.8	1:2.075	2.33	1.04	-0.13	29.86	30.0	1.033	1.074	22.3	4.0
Left side	GPRS 2TS	810/1909.8	1:2.075	1.48	0.788	-0.05	29.86	30.0	1.033	0.814	22.3	4.0
Right side	GPRS 2TS	810/1909.8	1:2.075	0.366	0.188	0.07	29.86	30.0	1.033	0.194	22.3	4.0
Top side	GPRS 2TS	810/1909.8	1:2.075	0.232	0.117	-0.09	29.86	30.0	1.033	0.121	22.3	4.0
Bottom side	GPRS 2TS	810/1909.8	1:2.075	1.73	0.829	0.04	29.86	30.0	1.033	0.856	22.3	4.0



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8.2.3 SAR Result Of WCDMA II

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 (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
Body Test data with SIM1(Separate 10mm)												
Front side	RMC	9262/1852.4	1:1	0.289	0.179	-0.12	23.28	23.5	1.052	0.304	22.3	1.6
Back side	RMC	9262/1852.4	1:1	0.513	0.287	-0.06	23.28	23.5	1.052	0.540	22.3	1.6
Left side	RMC	9262/1852.4	1:1	0.525	0.304	-0.02	23.28	23.5	1.052	0.552	22.3	1.6
Right side	RMC	9262/1852.4	1:1	0.134	0.0801	-0.05	23.28	23.5	1.052	0.141	22.3	1.6
Top side	RMC	9262/1852.4	1:1	0.075	0.043	0.19	23.28	23.5	1.052	0.079	22.3	1.6
Bottom side	RMC	9262/1852.4	1:1	0.432	0.264	0.14	23.28	23.5	1.052	0.454	22.3	1.6

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 (W/kg) 10-g	Liquid Temp	SAR limit (W/kg) 10-g
Extremity Test data with SIM1(Separate 0mm)												
Front side	RMC	9262/1852.4	1:1	1.35	0.751	0.1	23.28	23.5	1.052	0.790	22.3	4.0
Back side	RMC	9262/1852.4	1:1	2.28	1.15	-0.08	23.28	23.5	1.052	1.210	22.3	4.0
Left side	RMC	9262/1852.4	1:1	2.45	1.28	-0.19	23.28	23.5	1.052	1.347	22.3	4.0
Right side	RMC	9262/1852.4	1:1	0.626	0.337	-0.17	23.28	23.5	1.052	0.355	22.3	4.0
Top side	RMC	9262/1852.4	1:1	0.349	0.178	-0.07	23.28	23.5	1.052	0.187	22.3	4.0
Bottom side	RMC	9262/1852.4	1:1	2.02	1.11	0.01	23.28	23.5	1.052	1.168	22.3	4.0



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8.2.4 SAR Result Of WCDMA IV

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 (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
Body Test data with SIM1(Separate 10mm)												
Front side	RMC	1312/1712.4	1:1	0.261	0.172	-0.17	23.19	23.5	1.074	0.280	22.3	1.6
Back side	RMC	1312/1712.4	1:1	0.769	0.477	0.07	23.19	23.5	1.074	0.826	22.3	1.6
Left side	RMC	1312/1712.4	1:1	0.541	0.323	-0.18	23.19	23.5	1.074	0.581	22.3	1.6
Right side	RMC	1312/1712.4	1:1	0.079	0.049	-0.19	23.19	23.5	1.074	0.085	22.3	1.6
Top side	RMC	1312/1712.4	1:1	0.092	0.054	-0.13	23.19	23.5	1.074	0.099	22.3	1.6
Bottom side	RMC	1312/1712.4	1:1	0.612	0.370	0.09	23.19	23.5	1.074	0.657	22.3	1.6
Back side	Back side	1412/1732.4	1:1	0.728	0.469	0.07	23.12	23.5	1.091	0.795	22.3	1.6
Back side	Back side	1513/1752.6	1:1	0.704	0.040	-0.12	22.92	23.5	1.143	0.805	22.3	1.6

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 (W/kg) 10-g	Liquid Temp	SAR limit (W/kg) 10-g
Extremity Test data with SIM1(Separate 0mm)												
Front side	RMC	1312/1712.4	1:1	0.916	0.549	-0.05	23.19	23.5	1.074	0.590	22.3	4.0
Back side	RMC	1312/1712.4	1:1	2.7	1.52	0.1	23.19	23.5	1.074	1.632	22.3	4.0
Left side	RMC	1312/1712.4	1:1	1.9	1.03	0.09	23.19	23.5	1.074	1.106	22.3	4.0
Right side	RMC	1312/1712.4	1:1	0.277	0.155	0.02	23.19	23.5	1.074	0.166	22.3	4.0
Top side	RMC	1312/1712.4	1:1	0.324	0.173	-0.15	23.19	23.5	1.074	0.186	22.3	4.0
Bottom side	RMC	1312/1712.4	1:1	2.15	1.18	-0.07	23.19	23.5	1.074	1.267	22.3	4.0



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8.2.5 SAR Result Of WCDMA V

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 (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
Body Test data with SIM1(Separate 10mm)												
Front side	RMC	4233/846.6	1:1	0.148	0.105	-0.15	23.74	24.0	1.062	0.157	22.3	1.6
Back side	RMC	4233/846.6	1:1	0.972	0.501	0.19	23.74	24.0	1.062	1.032	22.3	1.6
Left side	RMC	4233/846.6	1:1	0.351	0.24	-0.16	23.74	24.0	1.062	0.373	22.3	1.6
Right side	RMC	4233/846.6	1:1	0.014	0.009	-0.14	23.74	24.0	1.062	0.015	22.3	1.6
Top side	RMC	4233/846.6	1:1	0.039	0.011	0.05	23.74	24.0	1.062	0.041	22.3	1.6
Bottom side	RMC	4233/846.6	1:1	0.098	0.063	0.08	23.74	24.0	1.062	0.104	22.3	1.6

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 (W/kg) 10-g	Liquid Temp	SAR limit (W/kg) 10-g
Extremity Test data with SIM1(Separate 0mm)												
Front side	RMC	4233/846.6	1:1	0.286	0.187	-0.16	23.74	24.0	1.062	0.199	22.3	4.0
Back side	RMC	4233/846.6	1:1	1.61	0.966	0.01	23.74	24.0	1.062	1.026	22.3	4.0
Left side	RMC	4233/846.6	1:1	0.572	0.373	0.04	23.74	24.0	1.062	0.396	22.3	4.0
Right side	RMC	4233/846.6	1:1	0.087	0.029	0.06	23.74	24.0	1.062	0.031	22.3	4.0
Top side	RMC	4233/846.6	1:1	0.104	0.078	-0.09	23.74	24.0	1.062	0.083	22.3	4.0
Bottom side	RMC	4233/846.6	1:1	0.462	0.271	-0.16	23.74	24.0	1.062	0.288	22.3	4.0

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8.2.6 SAR Result Of LTE Band 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 SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 10-g
Body Test data with SIM1(Separate 10mm)												
Front side	20M_QPSK 1RB_50	19100/1900	1:1	0.417	0.234	-0.07	23.24	23.5	1.062	0.443	22.3	1.6
Front side	20M_QPSK 50RB_50	19100/1900	1:1	0.404	0.232	0.05	21.76	22.5	1.186	0.479	22.3	1.6
Back side	20M_QPSK 1RB_50	19100/1900	1:1	0.869	0.423	-0.04	23.24	23.5	1.062	0.923	22.3	1.6
Back side	20M_QPSK 50RB_50	19100/1900	1:1	0.774	0.414	-0.11	21.76	22.5	1.186	0.918	22.3	1.6
Left side	20M_QPSK 1RB_50	19100/1900	1:1	0.698	0.357	0.03	23.24	23.5	1.062	0.741	22.3	1.6
Left side	20M_QPSK 50RB_50	19100/1900	1:1	0.667	0.322	-0.04	21.76	22.5	1.186	0.791	22.3	1.6
Right side	20M_QPSK 1RB_50	19100/1900	1:1	0.048	0.026	0.19	23.24	23.5	1.062	0.051	22.3	1.6
Right side	20M_QPSK 50RB_50	19100/1900	1:1	0.044	0.02	-0.08	21.76	22.5	1.186	0.052	22.3	1.6
Top side	20M_QPSK 1RB_50	19100/1900	1:1	0.102	0.053	-0.18	23.24	23.5	1.062	0.108	22.3	1.6
Top side	20M_QPSK 50RB_50	19100/1900	1:1	0.098	0.048	0.01	21.76	22.5	1.186	0.116	22.3	1.6
Bottom side	20M_QPSK 1RB_50	19100/1900	1:1	0.597	0.305	-0.05	23.24	23.5	1.062	0.634	22.3	1.6
Bottom side	20M_QPSK 50RB_50	19100/1900	1:1	0.55	0.301	-0.18	21.76	22.5	1.186	0.652	22.3	1.6
Back side	20M_QPSK 1RB_50	18700/1860	1:1	0.779	0.21	0.04	22.86	23.5	1.159	0.903	22.3	1.6
Back side	20M_QPSK 1RB_50	18900/1880	1:1	0.749	0.232	0.09	22.68	23.5	1.208	0.905	22.3	1.6
Back side	20M_QPSK 50RB_50	18700/1860	1:1	0.757	0.198	-0.17	21.67	22.5	1.211	0.916	22.3	1.6

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 (W/kg) 10-g	Liquid Temp	SAR limit (W/kg) 10-g
Extremity Test data with SIM1(Separate 0mm)												
Front side	20M_QPSK 1RB_50	19100/1900	1:1	1.32	0.742	-0.19	23.24	23.5	1.062	0.788	22.3	4.0
Front side	20M_QPSK 50RB_50	19100/1900	1:1	1.28	0.735	0.18	21.76	22.5	1.186	0.872	22.3	4.0
Back side	20M_QPSK 1RB_50	19100/1900	1:1	2.74	1.34	-0.14	23.24	23.5	1.062	1.423	22.3	4.0
Back side	20M_QPSK 50RB_50	19100/1900	1:1	2.68	1.31	-0.12	21.76	22.5	1.186	1.553	22.3	4.0
Left side	20M_QPSK 1RB_50	19100/1900	1:1	2.21	1.13	0.14	23.24	23.5	1.062	1.200	22.3	4.0
Left side	20M_QPSK 50RB_50	19100/1900	1:1	2.17	1.02	-0.08	21.76	22.5	1.186	1.209	22.3	4.0
Right side	20M_QPSK 1RB_50	19100/1900	1:1	0.154	0.085	0.13	23.24	23.5	1.062	0.090	22.3	4.0
Right side	20M_QPSK 50RB_50	19100/1900	1:1	0.142	0.066	0.12	21.76	22.5	1.186	0.078	22.3	4.0
Top side	20M_QPSK 1RB_50	19100/1900	1:1	0.324	0.168	-0.04	23.24	23.5	1.062	0.178	22.3	4.0
Top side	20M_QPSK 50RB_50	19100/1900	1:1	0.312	0.154	-0.19	21.76	22.5	1.186	0.183	22.3	4.0
Bottom side	20M_QPSK 1RB_50	19100/1900	1:1	1.89	0.966	-0.06	23.24	23.5	1.062	1.026	22.3	4.0
Bottom side	20M_QPSK 50RB_50	19100/1900	1:1	1.74	0.952	0.04	21.76	22.5	1.186	1.129	22.3	4.0

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8.2.7 SAR Result Of LTE Band 4

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 (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
Body Test data with SIM1(Separate 10mm)												
Front side	20M_QPSK 1RB_0	20300/1745	1:1	0.222	0.139	0.01	22.79	23	1.050	0.233	22.2	1.6
Front side	20M_QPSK 50RB_0	20050/1720	1:1	0.217	0.131	-0.14	21.66	22	1.081	0.235	22.2	1.6
Back side	20M_QPSK 1RB_0	20300/1745	1:1	0.705	0.388	0.15	22.79	23	1.050	0.740	22.2	1.6
Back side	20M_QPSK 50RB_0	20050/1720	1:1	0.679	0.369	0.02	21.66	22	1.081	0.734	22.2	1.6
Left side	20M_QPSK 1RB_0	20300/1745	1:1	0.426	0.232	0.13	22.79	23	1.050	0.447	22.2	1.6
Left side	20M_QPSK 50RB_0	20050/1720	1:1	0.407	0.227	0.1	21.66	22	1.081	0.440	22.2	1.6
Right side	20M_QPSK 1RB_0	20300/1745	1:1	0.07	0.037	0.1	22.79	23	1.050	0.073	22.2	1.6
Right side	20M_QPSK 50RB_0	20050/1720	1:1	0.066	0.031	-0.12	21.66	22	1.081	0.071	22.2	1.6
Top side	20M_QPSK 1RB_0	20300/1745	1:1	0.053	0.029	0.18	22.79	23	1.050	0.056	22.2	1.6
Top side	20M_QPSK 50RB_0	20050/1720	1:1	0.039	0.026	0.1	21.66	22	1.081	0.042	22.2	1.6
Bottom side	20M_QPSK 1RB_0	20300/1745	1:1	0.537	0.271	-0.03	22.79	23	1.050	0.564	22.2	1.6
Bottom side	20M_QPSK 50RB_0	20050/1720	1:1	0.48	0.241	0.15	21.66	22	1.081	0.519	22.2	1.6

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 (W/kg) 10-g	Liquid Temp	SAR limit (W/kg) 10-g
Extremity Test data with SIM1(Separate 0mm)												
Front side	20M_QPSK 1RB_0	20300/1745	1:1	0.704	0.44	0.04	22.79	23	1.050	0.788	22.2	4.0
Front side	20M_QPSK 50RB_0	20050/1720	1:1	0.689	0.415	-0.09	21.66	22	1.081	0.872	22.2	4.0
Back side	20M_QPSK 1RB_0	20300/1745	1:1	2.23	1.23	-0.19	22.79	23	1.050	1.423	22.2	4.0
Back side	20M_QPSK 50RB_0	20050/1720	1:1	2.15	1.17	0.16	21.66	22	1.081	1.553	22.2	4.0
Left side	20M_QPSK 1RB_0	20300/1745	1:1	1.35	0.734	-0.19	22.79	23	1.050	1.200	22.2	4.0
Left side	20M_QPSK 50RB_0	20050/1720	1:1	1.29	0.719	-0.11	21.66	22	1.081	1.209	22.2	4.0
Right side	20M_QPSK 1RB_0	20300/1745	1:1	0.224	0.12	0.08	22.79	23	1.050	0.090	22.2	4.0
Right side	20M_QPSK 50RB_0	20050/1720	1:1	0.211	0.101	-0.09	21.66	22	1.081	0.078	22.2	4.0
Top side	20M_QPSK 1RB_0	20300/1745	1:1	0.169	0.0925	0.13	22.79	23	1.050	0.178	22.2	4.0
Top side	20M_QPSK 50RB_0	20050/1720	1:1	0.124	0.085	0.16	21.66	22	1.081	0.183	22.2	4.0
Bottom side	20M_QPSK 1RB_0	20300/1745	1:1	1.7	0.86	0.11	22.79	23	1.050	1.026	22.2	4.0
Bottom side	20M_QPSK 50RB_0	20050/1720	1:1	1.52	0.765	-0.17	21.66	22	1.081	1.129	22.2	4.0

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Page: 71 of 127

8.2.8 SAR Result Of LTE Band 5

Test position	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
Body Test data with SIM1(Separate 10mm)												
Front side	20M_QPSK 1RB_25	20450/829	1:1	0.148	0.105	-0.12	22.91	23	1.021	0.151	22.1	1.6
Front side	20M_QPSK 25RB_0	20450/829	1:1	0.154	0.097	0.01	21.85	22.5	1.161	0.179	22.1	1.6
Back side	20M_QPSK 1RB_25	20450/829	1:1	0.672	0.301	-0.04	22.91	23	1.021	0.686	22.1	1.6
Back side	20M_QPSK 25RB_0	20450/829	1:1	0.666	0.363	0.08	21.85	22.5	1.161	0.774	22.1	1.6
Left side	20M_QPSK 1RB_25	20450/829	1:1	0.351	0.24	-0.1	22.91	23	1.021	0.358	22.1	1.6
Left side	20M_QPSK 25RB_0	20450/829	1:1	0.247	0.159	0.1	21.85	22.5	1.161	0.287	22.1	1.6
Right side	20M_QPSK 1RB_25	20450/829	1:1	0.12	0.069	-0.03	22.91	23	1.021	0.123	22.1	1.6
Right side	20M_QPSK 25RB_0	20450/829	1:1	0.11	0.066	-0.1	21.85	22.5	1.161	0.128	22.1	1.6
Top side	20M_QPSK 1RB_25	20450/829	1:1	0.064	0.048	0.16	22.91	23	1.021	0.065	22.1	1.6
Top side	20M_QPSK 25RB_0	20450/829	1:1	0.055	0.038	-0.18	21.85	22.5	1.161	0.064	22.1	1.6
Bottom side	20M_QPSK 1RB_25	20450/829	1:1	0.0977	0.063	0.18	22.91	23	1.021	0.100	22.1	1.6
Bottom side	20M_QPSK 25RB_0	20450/829	1:1	0.082	0.049	0.11	21.85	22.5	1.161	0.095	22.1	1.6

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 (W/kg) 10-g	Liquid Temp	SAR limit (W/kg) 10-g
Extremity Test data with SIM1(Separate 0mm)												
Front side	20M_QPSK 1RB_25	20450/829	1:1	0.286	0.187	0.01	22.91	23	0.292	0.191	22.1	4.0
Front side	20M_QPSK 25RB_0	20450/829	1:1	0.274	0.174	0.08	21.85	22.5	0.318	0.202	22.1	4.0
Back side	20M_QPSK 1RB_25	20450/829	1:1	1.31	0.666	0.17	22.91	23	1.337	0.680	22.1	4.0
Back side	20M_QPSK 25RB_0	20450/829	1:1	1.22	0.647	-0.18	21.85	22.5	1.417	0.751	22.1	4.0
Left side	20M_QPSK 1RB_25	20450/829	1:1	0.573	0.373	-0.11	22.91	23	0.585	0.381	22.1	4.0
Left side	20M_QPSK 25RB_0	20450/829	1:1	0.557	0.354	-0.12	21.85	22.5	0.647	0.411	22.1	4.0
Right side	20M_QPSK 1RB_25	20450/829	1:1	0.214	0.124	0.06	22.91	23	0.218	0.127	22.1	4.0
Right side	20M_QPSK 25RB_0	20450/829	1:1	0.197	0.119	0.04	21.85	22.5	0.229	0.138	22.1	4.0
Top side	20M_QPSK 1RB_25	20450/829	1:1	0.114	0.087	-0.17	22.91	23	0.116	0.089	22.1	4.0
Top side	20M_QPSK 25RB_0	20450/829	1:1	0.098	0.068	-0.18	21.85	22.5	0.114	0.079	22.1	4.0
Bottom side	20M_QPSK 1RB_25	20450/829	1:1	0.462	0.271	0.01	22.91	23	0.472	0.277	22.1	4.0
Bottom side	20M_QPSK 25RB_0	20450/829	1:1	0.428	0.257	-0.13	21.85	22.5	0.497	0.298	22.1	4.0



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8.2.9 SAR Result Of LTE Band 7

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 (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
Body Test data with SIM1(Separate 10mm)												
Front side	20M_QPSK 1RB_50	20850/2510	1:1	0.08	0.04	-0.11	22.95	23.5	1.135	0.091	22.1	1.6
Front side	20M_QPSK 50RB_25	20850/2510	1:1	0.068	0.034	0.18	21.92	22.5	1.143	0.078	22.1	1.6
Back side	20M_QPSK 1RB_50	20850/2510	1:1	0.515	0.183	0.04	22.95	23.5	1.135	0.585	22.1	1.6
Back side	20M_QPSK 50RB_25	20850/2510	1:1	0.468	0.169	-0.03	21.92	22.5	1.143	0.535	22.1	1.6
Left side	20M_QPSK 1RB_50	20850/2510	1:1	0.328	0.15	-0.07	22.95	23.5	1.135	0.372	22.1	1.6
Left side	20M_QPSK 50RB_25	20850/2510	1:1	0.308	0.116	0.07	21.92	22.5	1.143	0.352	22.1	1.6
Right side	20M_QPSK 1RB_50	20850/2510	1:1	0.013	0.006	-0.05	22.95	23.5	1.135	0.015	22.1	1.6
Right side	20M_QPSK 50RB_25	20850/2510	1:1	0.008	0.004	0.18	21.92	22.5	1.143	0.009	22.1	1.6
Top side	20M_QPSK 1RB_50	20850/2510	1:1	0.019	0.01	0.07	22.95	23.5	1.135	0.022	22.1	1.6
Top side	20M_QPSK 50RB_25	20850/2510	1:1	0.016	0.006	-0.04	21.92	22.5	1.143	0.018	22.1	1.6
Bottom side	20M_QPSK 1RB_50	20850/2510	1:1	0.657	0.227	-0.13	22.95	23.5	1.135	0.746	22.1	1.6
Bottom side	20M_QPSK 50RB_25	20850/2510	1:1	0.622	0.215	0.04	21.92	22.5	1.143	0.711	22.1	1.6

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 (W/kg) 10-g	Liquid Temp	SAR limit (W/kg) 10-g
Extremity Test data with SIM1(Separate 0mm)												
Front side	20M_QPSK 1RB_50	20850/2510	1:1	0.256	0.129	-0.17	22.95	23.5	1.135	0.146	22.1	4.0
Front side	20M_QPSK 50RB_25	20850/2510	1:1	0.218	0.108	0.17	21.92	22.5	1.143	0.123	22.1	4.0
Back side	20M_QPSK 1RB_50	20850/2510	1:1	1.63	0.579	-0.17	22.95	23.5	1.135	0.657	22.1	4.0
Back side	20M_QPSK 50RB_25	20850/2510	1:1	1.48	0.535	-0.11	21.92	22.5	1.143	0.611	22.1	4.0
Left side	20M_QPSK 1RB_50	20850/2510	1:1	1.04	0.475	0.02	22.95	23.5	1.135	0.539	22.1	4.0
Left side	20M_QPSK 50RB_25	20850/2510	1:1	0.974	0.368	-0.05	21.92	22.5	1.143	0.421	22.1	4.0
Right side	20M_QPSK 1RB_50	20850/2510	1:1	0.042	0.021	-0.07	22.95	23.5	1.135	0.024	22.1	4.0
Right side	20M_QPSK 50RB_25	20850/2510	1:1	0.028	0.014	0.07	21.92	22.5	1.143	0.016	22.1	4.0
Top side	20M_QPSK 1RB_50	20850/2510	1:1	0.0628	0.0318	-0.06	22.95	23.5	1.135	0.036	22.1	4.0
Top side	20M_QPSK 50RB_25	20850/2510	1:1	0.051	0.021	-0.01	21.92	22.5	1.143	0.024	22.1	4.0
Bottom side	20M_QPSK 1RB_50	20850/2510	1:1	2.08	0.718	-0.17	22.95	23.5	1.135	0.815	22.1	4.0
Bottom side	20M_QPSK 50RB_25	20850/2510	1:1	1.97	0.682	0.1	21.92	22.5	1.143	0.779	22.1	4.0

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8.2.10SAR Result Of LTE Band 66

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 (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
Body Test data with SIM1(Separate 10mm)												
Front side	20M_QPSK 1RB_99	132072/1720	1:1	0.232	0.135	0.17	22.42	23	1.143	0.265	22.2	1.6
Front side	20M_QPSK 50RB_25	132572/1770	1:1	0.216	0.119	0.09	21.35	22	1.161	0.251	22.2	1.6
Back side	20M_QPSK 1RB_99	132072/1720	1:1	0.588	0.313	0.07	22.42	23	1.143	0.672	22.2	1.6
Back side	20M_QPSK 50RB_25	132572/1770	1:1	0.553	0.27	0.13	21.35	22	1.161	0.642	22.2	1.6
Left side	20M_QPSK 1RB_99	132072/1720	1:1	0.354	0.19	0.03	22.42	23	1.143	0.405	22.2	1.6
Left side	20M_QPSK 50RB_25	132572/1770	1:1	0.319	0.185	-0.14	21.35	22	1.161	0.371	22.2	1.6
Right side	20M_QPSK 1RB_99	132072/1720	1:1	0.069	0.037	0.11	22.42	23	1.143	0.079	22.2	1.6
Right side	20M_QPSK 50RB_25	132572/1770	1:1	0.049	0.03	0.07	21.35	22	1.161	0.057	22.2	1.6
Top side	20M_QPSK 1RB_99	132072/1720	1:1	0.043	0.024	0.14	22.42	23	1.143	0.049	22.2	1.6
Top side	20M_QPSK 50RB_25	132572/1770	1:1	0.035	0.018	-0.03	21.35	22	1.161	0.041	22.2	1.6
Bottom side	20M_QPSK 1RB_99	132072/1720	1:1	0.404	0.211	-0.16	22.42	23	1.143	0.462	22.2	1.6
Bottom side	20M_QPSK 50RB_25	132572/1770	1:1	0.341	0.188	0.13	21.35	22	1.161	0.396	22.2	1.6

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 (W/kg) 10-g	Liquid Temp	SAR limit (W/kg) 10-g
Extremity Test data with SIM1(Separate 0mm)												
Front side	20M_QPSK 1RB_99	132072/1720	1:1	0.736	0.428	0.01	22.42	23	1.143	0.489	22.2	4.0
Front side	20M_QPSK 50RB_25	132572/1770	1:1	0.685	0.378	-0.06	21.35	22	1.161	0.439	22.2	4.0
Back side	20M_QPSK 1RB_99	132072/1720	1:1	1.86	0.991	-0.08	22.42	23	1.143	1.133	22.2	4.0
Back side	20M_QPSK 50RB_25	132572/1770	1:1	1.75	0.854	0.03	21.35	22	1.161	0.992	22.2	4.0
Left side	20M_QPSK 1RB_99	132072/1720	1:1	1.12	0.602	-0.14	22.42	23	1.143	0.688	22.2	4.0
Left side	20M_QPSK 50RB_25	132572/1770	1:1	1.01	0.587	0.19	21.35	22	1.161	0.682	22.2	4.0
Right side	20M_QPSK 1RB_99	132072/1720	1:1	0.219	0.119	-0.07	22.42	23	1.143	0.136	22.2	4.0
Right side	20M_QPSK 50RB_25	132572/1770	1:1	0.157	0.098	0.03	21.35	22	1.161	0.114	22.2	4.0
Top side	20M_QPSK 1RB_99	132072/1720	1:1	0.139	0.0761	0.04	22.42	23	1.143	0.087	22.2	4.0
Top side	20M_QPSK 50RB_25	132572/1770	1:1	0.111	0.059	0.07	21.35	22	1.161	0.069	22.2	4.0
Bottom side	20M_QPSK 1RB_99	132072/1720	1:1	1.28	0.668	0.14	22.42	23	1.143	0.763	22.2	4.0
Bottom side	20M_QPSK 50RB_25	132572/1770	1:1	1.08	0.597	0.1	21.35	22	1.161	0.693	22.2	4.0

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8.2.11SAR Result Of 2.4G Wi-Fi

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
Body Test data with SIM1(Separate 10mm)													
Front side	802.11 b	6/2437	98.86%	1.012	0.029	0.013	-0.15	16.38	17	1.153	0.034	22.0	1.6
Back side	802.11 b	6/2437	98.86%	1.012	0.043	0.024	0.03	16.38	17	1.153	0.050	22.0	1.6
Left side	802.11 b	6/2437	98.86%	1.012	0.004	0.001	0.08	16.38	17	1.153	0.005	22.0	1.6
Right side	802.11 b	6/2437	98.86%	1.012	0.105	0.042	0.14	16.38	17	1.153	0.123	22.0	1.6
Top side	802.11 b	6/2437	98.86%	1.012	0.097	0.056	0.13	16.38	17	1.153	0.113	22.0	1.6

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10g	Liquid Temp	SAR limit (W/kg) 10g
Extremity Test data with SIM1(Separate 0mm)													
Front side	802.11 b	6/2437	98.86%	1.012	0.207	0.100	-0.11	16.38	17	1.153	0.117	22.0	4.0
Back side	802.11 b	6/2437	98.86%	1.012	0.307	0.120	-0.16	16.38	17	1.153	0.140	22.0	4.0
Left side	802.11 b	6/2437	98.86%	1.012	0.025	0.009	0.13	16.38	17	1.153	0.011	22.0	4.0
Right side	802.11 b	6/2437	98.86%	1.012	0.746	0.248	0.06	16.38	17	1.153	0.289	22.0	4.0
Top side	802.11 b	6/2437	98.86%	1.012	0.079	0.032	0.04	16.38	17	1.153	0.037	22.0	4.0

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Page: 75 of 127

8.2.12SAR Result Of WIFI 5G

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
Wi-Fi(U-NII-1 & U-NII-2A) Body Test data (Separate 10mm)													
Front side	802.11ac 40M	62/5310	94.12	1.062	0.103	0.045	0.13	11.32	12	1.169	0.129	22.2	1.6
Back side	802.11ac 40M	62/5310	94.12	1.062	0.045	0.021	-0.15	11.32	12	1.169	0.056	22.2	1.6
Left side	802.11ac 40M	62/5310	94.12	1.062	0.002	0.001	0.02	11.32	12	1.169	0.002	22.2	1.6
Right side	802.11ac 40M	62/5310	94.12	1.062	0.309	0.115	0.04	11.32	12	1.169	0.384	22.2	1.6
Top side	802.11ac 40M	62/5310	94.12	1.062	0.005	0.002	0.06	11.32	12	1.169	0.006	22.2	1.6
Bottom side	802.11ac 40M	62/5310	94.12	1.062	0.012	0.005	-0.07	11.32	12	1.169	0.015	22.2	1.6
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10g	Liquid Temp	SAR limit (W/kg) 10g
Wi-Fi(U-NII-1 & U-NII-2A) Extremity Test data (Separate 0mm)													
Front side	802.11ac 40M	62/5310	94.12	1.062	0.253	0.071	0.06	11.32	12	1.169	0.088	22.2	4.0
Back side	802.11ac 40M	62/5310	94.12	1.062	0.176	0.052	-0.07	11.32	12	1.169	0.065	22.2	4.0
Left side	802.11ac 40M	62/5310	94.12	1.062	0.013	0.005	0.03	11.32	12	1.169	0.006	22.2	4.0
Right side	802.11ac 40M	62/5310	94.12	1.062	1.21	0.354	0.05	11.32	12	1.169	0.440	22.2	4.0
Top side	802.11ac 40M	62/5310	94.12	1.062	0.018	0.025	-0.15	11.32	12	1.169	0.031	22.2	4.0
Bottom side	802.11ac 40M	62/5310	94.12	1.062	0.046	0.019	0.02	11.32	12	1.169	0.024	22.2	4.0

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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 76 of 127

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
Wi-Fi(U-NII-2C) Body Test data (Separate 10mm)													
Front side	802.11ac 40M	102/5510	94.12	1.062	0.041	0.018	0.06	9.76	10	1.057	0.047	22.2	1.6
Back side	802.11ac 40M	102/5510	94.12	1.062	0.067	0.031	-0.15	9.76	10	1.057	0.076	22.2	1.6
Left side	802.11ac 40M	102/5510	94.12	1.062	0.016	0.009	-0.07	9.76	10	1.057	0.018	22.2	1.6
Right side	802.11ac 40M	102/5510	94.12	1.062	0.15	0.06	0.03	9.76	10	1.057	0.170	22.2	1.6
Top side	802.11ac 40M	102/5510	94.12	1.062	0.005	0.002	0.08	9.76	10	1.057	0.006	22.2	1.6
Bottom side	802.11ac 40M	102/5510	94.12	1.062	0.002	0.001	-0.12	9.76	10	1.057	0.002	22.2	1.6
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10g	Liquid Temp	SAR limit (W/kg) 10g
Wi-Fi(U-NII-2C) Extremity Test data (Separate 0mm)													
Front side	802.11ac 40M	102/5510	94.12	1.062	0.191	0.069	-0.14	9.76	10	1.057	0.078	22.2	4.0
Back side	802.11ac 40M	102/5510	94.12	1.062	0.313	0.124	0.05	9.76	10	1.057	0.141	22.2	4.0
Left side	802.11ac 40M	102/5510	94.12	1.062	0.048	0.021	0.08	9.76	10	1.057	0.024	22.2	4.0
Right side	802.11ac 40M	102/5510	94.12	1.062	0.697	0.206	-0.13	9.76	10	1.057	0.234	22.2	4.0
Top side	802.11ac 40M	102/5510	94.12	1.062	0.012	0.004	0.06	9.76	10	1.057	0.005	22.2	4.0
Bottom side	802.11ac 40M	102/5510	94.12	1.062	0.008	0.002	0.01	9.76	10	1.057	0.002	22.2	4.0

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Report No.: KSCR220700116201

Page: 77 of 127

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp	SAR limit (W/kg) 1-g
Wi-Fi(U-NII-3) Body Test data (Separate 10mm)													
Front side	802.11ac 40M	151/5755	93.98	1.073	0.058	0.031	0.06	9.4	10	1.148	0.071	22.2	1.6
Back side	802.11ac 40M	151/5755	93.98	1.073	0.046	0.021	-0.02	9.4	10	1.148	0.056	22.2	1.6
Left side	802.11ac 40M	151/5755	93.98	1.073	0.007	0.003	0.05	9.4	10	1.148	0.009	22.2	1.6
Right side	802.11ac 40M	151/5755	93.98	1.073	0.137	0.056	0.07	9.4	10	1.148	0.167	22.2	1.6
Top side	802.11ac 40M	151/5755	93.98	1.073	0.008	0.003	-0.12	9.4	10	1.148	0.010	22.2	1.6
Bottom side	802.11ac 40M	151/5755	93.98	1.073	0.002	0.001	0.08	9.4	10	1.148	0.002	22.2	1.6
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10g	Liquid Temp	SAR limit (W/kg) 10g
Wi-Fi(U-NII-3) Extremity Test data (Separate 0mm)													
Front side	802.11ac 40M	151/5755	93.19	1.073	0.142	0.063	0.05	9.4	10	1.148	0.077	22.2	4.0
Back side	802.11ac 40M	151/5755	93.19	1.073	0.138	0.065	-0.17	9.4	10	1.148	0.079	22.2	4.0
Left side	802.11ac 40M	151/5755	93.19	1.073	0.012	0.005	0.06	9.4	10	1.148	0.006	22.2	4.0
Right side	802.11ac 40M	151/5755	93.19	1.073	0.624	0.131	0.05	9.4	10	1.148	0.160	22.2	4.0
Top side	802.11ac 40M	151/5755	93.19	1.073	0.009	0.003	-0.13	9.4	10	1.148	0.004	22.2	4.0
Bottom side	802.11ac 40M	151/5755	93.19	1.073	0.003	0.001	0.08	9.4	10	1.148	0.001	22.2	4.0

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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission

NO.	Simultaneous Transmission Configuration	Body	Extremity
1	WWAN + Wi-Fi 2.4GHz	Yes	Yes
2	WWAN + BT	Yes	Yes
3	WWAN + Wi-Fi 5GHz	Yes	Yes
4	BT+ Wi-Fi	Yes	Yes
5	WWAN+WLAN+BT	Yes	Yes



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8.3.2 Estimated SAR

When an antenna qualifies for test exemption in single transmitter/antenna mode, its actual SAR value may not be available, because it was not required to be measured. In this case, the SAR contribution of that antenna to simultaneous transmission must be estimated relative to the SAR or MPE based exemption criteria for the applicable terms in the equation of § 1.1307(b) (3 (ii)(B) (see also Appendix C), by multiplying the corresponding ratio by the SAR limit of 1.6 W/kg for 1-g SAR. This is referred to as estimated SAR.

For instance, a given antenna may qualify for a SAR-based exemption according to Section B.4, with $P_{ant} < P_i$, where P_{ant} is maximum time-averaged power or effective radiated power (ERP), whichever is greater, and P_i is defined in Formula (B.2). Then, per the preceding paragraph, the estimated SAR is computed as $SAR_{est} = 1.6 \cdot P_{ant} / P_{in}$ [W/kg].

When SAR is estimated, the peak SAR location is assumed to be at the feed-point or geometric center of the antenna, whichever provides a smaller antenna separation distance, and this location must be clearly identified in test reports. The estimated SAR is used only to determine simultaneous transmission SAR test exemption: it shall not be reported as the standalone SAR.

Freq. Band	Frequency (MHz)	Test Position	Test Separation (mm)	max. power(dBm)	Estimated 1g SAR (W/kg)	Estimated 10g SAR (W/kg)
Bluetooth	2402	Body	10	3	0.002	NA
Bluetooth	2402	Extremity	0	3	NA	0.006



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 80 of 127

1) Simultaneous Transmission SAR Summation Scenario for Body

WWAN Band	Exposure position	①MAX. WWAN SAR (W/kg)	②MAX. WLAN 2.4GHz SAR(W/kg)	③ MAX. BT SAR (W/kg)	④MAX. WLAN5G SAR (W/kg)	Summed SAR ①+②	Summed SAR ①+③	Summed SAR ①+④	Summed SAR ③+④	Summed SAR ①+③+④	Case NO.
GSM850	Front	0.071	0.034	0.002	0.129	0.105	0.073	0.200	0.131	0.202	No
	Back	0.627	0.05	0.002	0.076	0.677	0.629	0.703	0.078	0.705	No
	Left	0.187	0.005	0.002	0.018	0.192	0.189	0.205	0.020	0.207	No
	Right	0.251	0.123	0.002	0.387	0.374	0.253	0.638	0.389	0.640	No
	Top	0.008	0.113	0.002	0.01	0.121	0.010	0.018	0.012	0.020	No
	Bottom	0.135	0	0.002	0.015	0.135	0.137	0.150	0.017	0.152	No
GSM1900	Front	0.296	0.034	0.002	0.129	0.330	0.298	0.425	0.131	0.427	No
	Back	0.76	0.05	0.002	0.076	0.810	0.762	0.836	0.078	0.838	No
	Left	0.483	0.005	0.002	0.018	0.488	0.485	0.501	0.020	0.503	No
	Right	0.119	0.123	0.002	0.387	0.242	0.121	0.506	0.389	0.508	No
	Top	0.075	0.113	0.002	0.01	0.188	0.077	0.085	0.012	0.087	No
	Bottom	0.565	0	0.002	0.015	0.565	0.567	0.580	0.017	0.582	No
WCDMA Band II	Front	0.304	0.034	0.002	0.129	0.338	0.306	0.433	0.131	0.435	No
	Back	0.54	0.05	0.002	0.076	0.59	0.542	0.616	0.078	0.618	No
	Left	0.552	0.005	0.002	0.018	0.557	0.554	0.57	0.02	0.572	No
	Right	0.141	0.123	0.002	0.387	0.264	0.143	0.528	0.389	0.53	No
	Top	0.079	0.113	0.002	0.01	0.192	0.081	0.089	0.012	0.091	No
	Bottom	0.454	0	0.002	0.015	0.454	0.456	0.469	0.017	0.471	No
WCDMA Band IV	Front	0.28	0.034	0.002	0.129	0.314	0.282	0.409	0.131	0.411	No
	Back	0.826	0.05	0.002	0.076	0.876	0.828	0.902	0.078	0.904	No
	Left	0.581	0.005	0.002	0.018	0.586	0.583	0.599	0.02	0.601	No
	Right	0.085	0.123	0.002	0.387	0.208	0.087	0.472	0.389	0.474	No
	Top	0.099	0.113	0.002	0.01	0.212	0.101	0.109	0.012	0.111	No
	Bottom	0.657	0	0.002	0.015	0.657	0.659	0.672	0.017	0.674	No

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Report No.: KSCR220700116201

Page: 81 of 127

WCDMA Band V	Front	0.157	0.034	0.002	0.129	0.191	0.159	0.286	0.131	0.288	No
	Back	1.032	0.05	0.002	0.076	1.082	1.034	1.108	0.078	1.11	No
	Left	0.373	0.005	0.002	0.018	0.378	0.375	0.391	0.02	0.393	No
	Right	0.015	0.123	0.002	0.387	0.138	0.017	0.402	0.389	0.404	No
	Top	0.041	0.113	0.002	0.01	0.154	0.043	0.051	0.012	0.053	No
	Bottom	0.104	0	0.002	0.015	0.104	0.106	0.119	0.017	0.121	No
LTE Band 2	Front	0.479	0.034	0.002	0.129	0.513	0.481	0.608	0.131	0.610	No
	Back	0.923	0.05	0.002	0.076	0.973	0.925	0.999	0.078	1.001	No
	Left	0.791	0.005	0.002	0.018	0.796	0.793	0.809	0.020	0.811	No
	Right	0.052	0.123	0.002	0.387	0.175	0.054	0.439	0.389	0.441	No
	Top	0.116	0.113	0.002	0.01	0.229	0.118	0.126	0.012	0.128	No
	Bottom	0.652	0	0.002	0.015	0.652	0.654	0.667	0.017	0.669	No
LTE Band 4	Front	0.235	0.034	0.002	0.129	0.269	0.237	0.364	0.131	0.366	No
	Back	0.74	0.05	0.002	0.076	0.790	0.742	0.816	0.078	0.818	No
	Left	0.447	0.005	0.002	0.018	0.452	0.449	0.465	0.020	0.467	No
	Right	0.073	0.123	0.002	0.387	0.196	0.075	0.460	0.389	0.462	No
	Top	0.056	0.113	0.002	0.01	0.169	0.058	0.066	0.012	0.068	No
	Bottom	0.564	0	0.002	0.015	0.564	0.566	0.579	0.017	0.581	No
LTE Band 5	Front	0.179	0.034	0.002	0.129	0.213	0.181	0.308	0.131	0.310	No
	Back	0.774	0.05	0.002	0.076	0.824	0.776	0.850	0.078	0.852	No
	Left	0.358	0.005	0.002	0.018	0.363	0.360	0.376	0.020	0.378	No
	Right	0.128	0.123	0.002	0.387	0.251	0.130	0.515	0.389	0.517	No
	Top	0.065	0.113	0.002	0.01	0.178	0.067	0.075	0.012	0.077	No
	Bottom	0.1	0	0.002	0.015	0.100	0.102	0.115	0.017	0.117	No
LTE Band 7	Front	0.091	0.034	0.002	0.129	0.125	0.093	0.220	0.131	0.222	No
	Back	0.585	0.05	0.002	0.076	0.635	0.587	0.661	0.078	0.663	No
	Left	0.372	0.005	0.002	0.018	0.377	0.374	0.390	0.020	0.392	No
	Right	0.015	0.123	0.002	0.387	0.138	0.017	0.402	0.389	0.404	No
	Top	0.022	0.113	0.002	0.01	0.135	0.024	0.032	0.012	0.034	No

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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 82 of 127

	Bottom	0.746	0	0.002	0.015	0.746	0.748	0.761	0.017	0.763	No
LTE Band 66	Front	0.265	0.034	0.002	0.129	0.299	0.267	0.394	0.131	0.396	No
	Back	0.672	0.05	0.002	0.076	0.722	0.674	0.748	0.078	0.750	No
	Left	0.405	0.005	0.002	0.018	0.410	0.407	0.423	0.020	0.425	No
	Right	0.079	0.123	0.002	0.387	0.202	0.081	0.466	0.389	0.468	No
	Top	0.049	0.113	0.002	0.01	0.162	0.051	0.059	0.012	0.061	No
	Bottom	0.462	0	0.002	0.015	0.462	0.464	0.477	0.017	0.479	No



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Report No.: KSCR220700116201

Page: 83 of 127

2) Simultaneous Transmission SAR Summation Scenario for extremity

WWAN Band	Exposure position	① MAX. WWAN SAR (W/kg)	② MAX. WLAN2.4G SAR (W/kg)	③ MAX. BT SAR (W/kg)	④ MAX. WLAN5G SAR (W/kg)	Summed SAR ①+②	Summed SAR ①+③	Summed SAR ①+④	Summed SAR ③+④	Summed SAR ①+③+④	Case NO.
GSM850	Front	0.15	0.117	0.006	0.089	0.267	0.156	0.239	0.095	0.245	No
	Back	1.147	0.14	0.006	0.141	1.287	1.153	1.288	0.147	1.294	No
	Left	0.383	0.011	0.006	0.024	0.394	0.389	0.407	0.030	0.413	No
	Right	0.524	0.289	0.006	0.444	0.813	0.530	0.968	0.450	0.974	No
	Top	0.019	0.037	0.006	0.031	0.056	0.025	0.050	0.037	0.056	No
	Bottom	0.259	0	0.006	0.024	0.259	0.265	0.283	0.030	0.289	No
GSM1900	Front	0.411	0.117	0.006	0.089	0.528	0.417	0.500	0.095	0.506	No
	Back	1.074	0.14	0.006	0.141	1.214	1.080	1.215	0.147	1.221	No
	Left	0.814	0.011	0.006	0.024	0.825	0.820	0.838	0.030	0.844	No
	Right	0.194	0.289	0.006	0.444	0.483	0.200	0.638	0.450	0.644	No
	Top	0.121	0.037	0.006	0.031	0.158	0.127	0.152	0.037	0.158	No
	Bottom	0.856	0	0.006	0.024	0.856	0.862	0.880	0.030	0.886	No
WCDMA Band II	Front	0.79	0.117	0.006	0.089	0.907	0.796	0.879	0.095	0.885	No
	Back	1.21	0.14	0.006	0.141	1.35	1.216	1.351	0.147	1.357	No
	Left	1.347	0.011	0.006	0.024	1.358	1.353	1.371	0.03	1.377	No
	Right	0.355	0.289	0.006	0.444	0.644	0.361	0.799	0.45	0.805	No
	Top	0.187	0.037	0.006	0.031	0.224	0.193	0.218	0.037	0.224	No
	Bottom	1.168	0	0.006	0.024	1.168	1.174	1.192	0.03	1.198	No
WCDMA Band IV	Front	0.59	0.117	0.006	0.089	0.707	0.596	0.679	0.095	0.685	No
	Back	1.632	0.14	0.006	0.141	1.772	1.638	1.773	0.147	1.779	No
	Left	1.106	0.011	0.006	0.024	1.117	1.112	1.13	0.03	1.136	No
	Right	0.166	0.289	0.006	0.444	0.455	0.172	0.61	0.45	0.616	No
	Top	0.186	0.037	0.006	0.031	0.223	0.192	0.217	0.037	0.223	No
	Bottom	1.267	0	0.006	0.024	1.267	1.273	1.291	0.03	1.297	No



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 84 of 127

WCDMA Band V	Front	0.199	0.117	0.006	0.089	0.316	0.205	0.288	0.095	0.294	No
	Back	1.026	0.14	0.006	0.141	1.166	1.032	1.167	0.147	1.173	No
	Left	0.396	0.011	0.006	0.024	0.407	0.402	0.42	0.03	0.426	No
	Right	0.031	0.289	0.006	0.444	0.32	0.037	0.475	0.45	0.481	No
	Top	0.083	0.037	0.006	0.031	0.12	0.089	0.114	0.037	0.12	No
	Bottom	0.288	0	0.006	0.024	0.288	0.294	0.312	0.03	0.318	No
LTE Band 2	Front	0.872	0.117	0.006	0.089	0.989	0.878	0.961	0.095	0.967	No
	Back	1.553	0.14	0.006	0.141	1.693	1.559	1.694	0.147	1.700	No
	Left	1.209	0.011	0.006	0.024	1.220	1.215	1.233	0.030	1.239	No
	Right	0.09	0.289	0.006	0.444	0.379	0.096	0.534	0.450	0.540	No
	Top	0.183	0.037	0.006	0.031	0.220	0.189	0.214	0.037	0.220	No
	Bottom	1.129	0	0.006	0.024	1.129	1.135	1.153	0.030	1.159	No
LTE Band 4	Front	0.462	0.117	0.006	0.089	0.579	0.468	0.551	0.095	0.557	No
	Back	1.291	0.14	0.006	0.141	1.431	1.297	1.432	0.147	1.438	No
	Left	0.778	0.011	0.006	0.024	0.789	0.784	0.802	0.030	0.808	No
	Right	0.126	0.289	0.006	0.444	0.415	0.132	0.570	0.450	0.576	No
	Top	0.097	0.037	0.006	0.031	0.134	0.103	0.128	0.037	0.134	No
	Bottom	0.903	0	0.006	0.024	0.903	0.909	0.927	0.030	0.933	No
LTE Band 5	Front	0.202	0.117	0.006	0.089	0.319	0.208	0.291	0.095	0.297	No
	Back	0.751	0.14	0.006	0.141	0.891	0.757	0.892	0.147	0.898	No
	Left	0.411	0.011	0.006	0.024	0.422	0.417	0.435	0.030	0.441	No
	Right	0.138	0.289	0.006	0.444	0.427	0.144	0.582	0.450	0.588	No
	Top	0.089	0.037	0.006	0.031	0.126	0.095	0.120	0.037	0.126	No
	Bottom	0.298	0	0.006	0.024	0.298	0.304	0.322	0.030	0.328	No
LTE Band 7	Front	0.146	0.117	0.006	0.089	0.263	0.152	0.235	0.095	0.241	No
	Back	0.657	0.14	0.006	0.141	0.797	0.663	0.798	0.147	0.804	No
	Left	0.539	0.011	0.006	0.024	0.550	0.545	0.563	0.030	0.569	No
	Right	0.024	0.289	0.006	0.444	0.313	0.030	0.468	0.450	0.474	No
	Top	0.036	0.037	0.006	0.031	0.073	0.042	0.067	0.037	0.073	No

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Report No.: KSCR220700116201

Page: 85 of 127

	Bottom	0.815	0	0.006	0.024	0.815	0.821	0.839	0.030	0.845	No
LTE Band 66	Front	0.489	0.117	0.006	0.089	0.606	0.495	0.578	0.095	0.584	No
	Back	1.133	0.14	0.006	0.141	1.273	1.139	1.274	0.147	1.280	No
	Left	0.688	0.011	0.006	0.024	0.699	0.694	0.712	0.030	0.718	No
	Right	0.136	0.289	0.006	0.444	0.425	0.142	0.580	0.450	0.586	No
	Top	0.087	0.037	0.006	0.031	0.124	0.093	0.118	0.037	0.124	No
	Bottom	0.763	0	0.006	0.024	0.763	0.769	0.787	0.030	0.793	No



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9 Equipment list

Test Platform	SPEAG DASY5 Professional					
Location	Compliance Certification Services (Kunshan) Inc.					
Software Reference	DASY52 VERSION 52.8 (8); SEMCAD X 14.6.10(7331)					
Hardware Reference						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration	
<input checked="" type="checkbox"/> P C	HP	Core(m)3.16G	CZCO48171H	N/A	N/A	
<input checked="" type="checkbox"/> Signal Generator	Agilent	E5182A	MY50142015	2021/09/24	2022/09/23	
<input checked="" type="checkbox"/> S-Parameter Network Analyzer	Agilent	E5071B	MY42301382	2022/02/20	2023/02/19	
<input checked="" type="checkbox"/> DAK-3.5 probe	SPEAG	DAK-3.5	1102	N/A	N/A	
<input checked="" type="checkbox"/> DAE	SPEAG	DAE4	1245	2022/05/30	2025/05/29	
<input checked="" type="checkbox"/> E-field PROBE	SPEAG	EX3DV4	7346	2022/03/30	2023/03/29	
<input checked="" type="checkbox"/> Dipole	SPEAG	D835V2	4d114	2022/03/31	2025/03/30	
<input checked="" type="checkbox"/> Dipole	SPEAG	D1800V2	2d170	2022/03/31	2025/03/30	
<input checked="" type="checkbox"/> Dipole	SPEAG	D1900V2	5d136	2022/06/07	2025/06/06	
<input checked="" type="checkbox"/> Dipole	SPEAG	D2450V2	817	2022/04/01	2025/03/31	
<input checked="" type="checkbox"/> Dipole	SPEAG	D2600V2	1158	2022/03/31	2025/03/30	
<input checked="" type="checkbox"/> Dipole	SPEAG	D5GHzV2	1095	2022/06/01	2025/05/31	
<input checked="" type="checkbox"/> Electro Thermometer	DTM	DTM3000	3030	2021/10/17	2022/10/16	
<input checked="" type="checkbox"/> Amplifier	Mini-circuits	ZVE-8G	110405	N/A	N/A	
<input checked="" type="checkbox"/> Amplifier	Mini-circuits	ZHL-42	QA1331003	N/A	N/A	
<input checked="" type="checkbox"/> 3db ATTENUATOR	MINI	MCL BW-S3W5	0533	N/A	N/A	
<input checked="" type="checkbox"/> DUMMY PROBE	SPEAG	DP_2	SPDP2001AA	N/A	N/A	
<input checked="" type="checkbox"/> Dual Directional Coupler	Woken	20W couple	DOM2BHW1A1	N/A	N/A	
<input checked="" type="checkbox"/> SAM PHANTOM (ELI4 v4.0)	SPEAG	QDOVA001BB	1102	N/A	N/A	
<input checked="" type="checkbox"/> Twin SAM Phantom	SPEAG	QD000P40CD	1609	N/A	N/A	
<input checked="" type="checkbox"/> ROBOT	SPEAG	TX60	F10/5E6AA1/A101	N/A	N/A	

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Report No.: KSCR220700116201

Page: 87 of 127

<input checked="" type="checkbox"/>	ROBOT KRC	SPEAG	CS8C	F10/5E6AA1/C101	N/A	N/A
<input checked="" type="checkbox"/>	LIQUID CALIBRATION KIT	ANTENNESSA	41/05 OCP9	00425167	N/A	N/A

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

All measurement facilities used to collect the measurement data are located at

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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

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Report No.: KSCR220700116201

Page: 89 of 127

Appendix A: Detailed System Check Results

The plots are showing as followings.



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 90 of 127

Date: 2022/08/05

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 835MHz

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d114

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.909 \text{ S/m}$; $\epsilon_r = 42.04$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(10.12, 10.12, 10.12); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequencies Low 1 GHz/d=15mm, Pin=250 mW, dist=3.0mm (EX-Probe)/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.47 W/kg

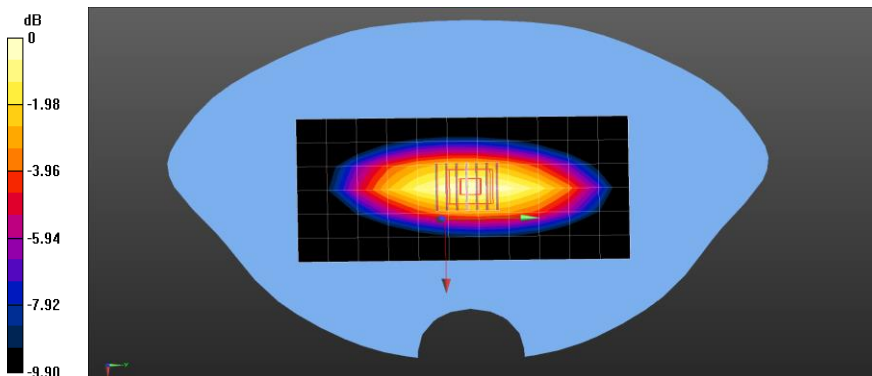
System Performance Check at Frequencies Low 1 GHz/d=15mm, Pin=250 mW, dist=3.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.35 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.12 W/kg

SAR(1 g) = 2.15 W/kg; SAR(10 g) = 1.48 W/kg

Maximum value of SAR (measured) = 2.53 W/kg



0dB = 2.53 W/kg = 4.25 dBW/kg

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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201
 Page: 91 of 127

Date: 2022/08/06

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 1800MHz

DUT: Dipole 1800 MHz ; Type: D1800V2; Serial: 2d170

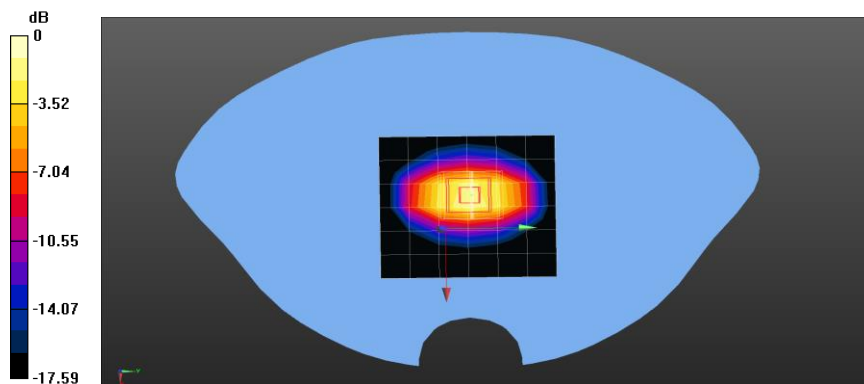
Communication System: UID 10000, CW; Frequency: 1800 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.384 \text{ S/m}$; $\epsilon_r = 40.258$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.83, 8.83, 8.83); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASYS52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (EX-Probe) (23.6 dBm)/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 9.62 W/kg

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=3.0mm (EX-Probe) (23.6 dBm)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 97.538 V/m; Power Drift = 0.09 dB
 Peak SAR (extrapolated) = 16.9 W/kg
SAR(1 g) = 9.67 W/kg; SAR(10 g) = 4.95 W/kg
 Maximum value of SAR (measured) = 10.8 W/kg



0dB = 10.8 W/kg = 10.35 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 92 of 127

Date: 2022/08/08

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 1900MHz

DUT: Dipole 1900 MHz ; Type: D1900V2; Serial: 1139

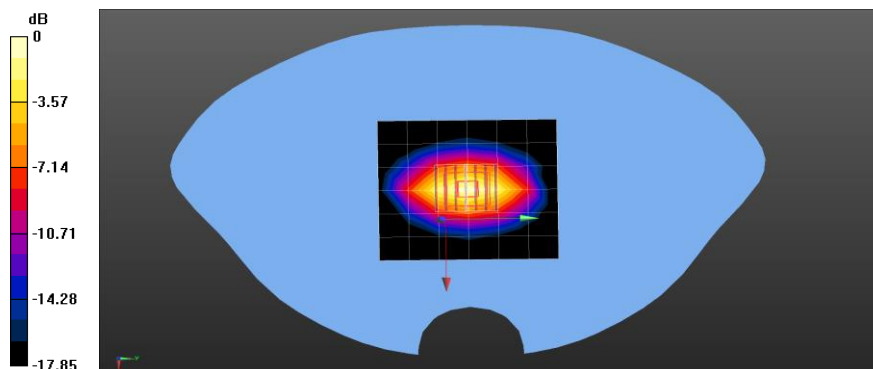
Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.389 \text{ S/m}$; $\epsilon_r = 40.284$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASy5 (IEEE/IEC/ANSI C63.19-2007)

DASy5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.48, 8.48, 8.48); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASy52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 14.71 W/kg

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 101.5 V/m; Power Drift = 0.12 dB
 Peak SAR (extrapolated) = 13.4 W/kg
SAR(1 g) = 10.3 W/kg; SAR(10 g) = 4.87 W/kg
 Maximum value of SAR (measured) = 14.8 W/kg



0dB = 14.8 W/kg = 11.53 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 93 of 127

Date: 2022/08/09

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 2450MHz

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 817

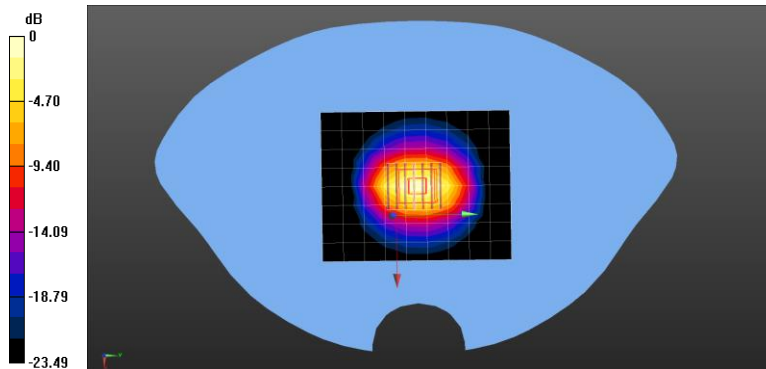
Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 2.012 \text{ S/m}$; $\epsilon_r = 39.651$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.63, 7.63, 7.63); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Area Scan (9x10x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 16.2 W/kg

System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 102.0 V/m; Power Drift = -0.12 dB
 Peak SAR (extrapolated) = 22.8 W/kg
SAR(1 g) = 13.15 W/kg; SAR(10 g) = 5.89 W/kg
 Maximum value of SAR (measured) = 16.8 W/kg



0dB = 16.8 W/kg = 12.71 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 94 of 127

Date: 2022/08/10

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 2600MHz

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1158

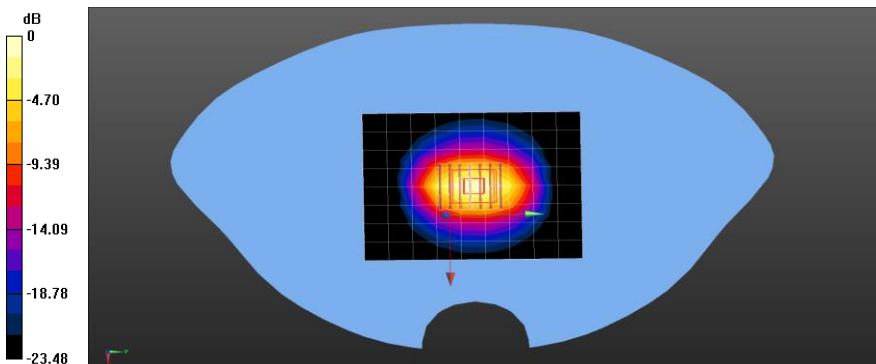
Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2600 \text{ MHz}$; $\sigma = 1.955 \text{ S/m}$; $\epsilon_r = 38.68$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.33, 7.33, 7.33); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Area Scan (9x10x1): Measurement grid: dx=12mm, dy=12mm
 Maximum value of SAR (measured) = 21.9 W/kg

System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 106.8 V/m; Power Drift = -0.08 dB
 Peak SAR (extrapolated) = 28.3 W/kg
SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.19 W/kg
 Maximum value of SAR (measured) = 22.2 W/kg



$O_{dB} = 22.2 \text{ W/kg} = 13.46 \text{ dBW/kg}$



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 95 of 127

Date: 2022/08/11

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 5200MHz

DUT: Dipole 5200 MHz; Type: D5GHzV2; Serial: 1095

Communication System: UID 0, CW (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5200 \text{ MHz}$; $\sigma = 4.62 \text{ S/m}$; $\epsilon_r = 35.39$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(5.25, 5.25, 5.25); Calibrated: 2023/05/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5200 MHz/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 16.5 W/kg

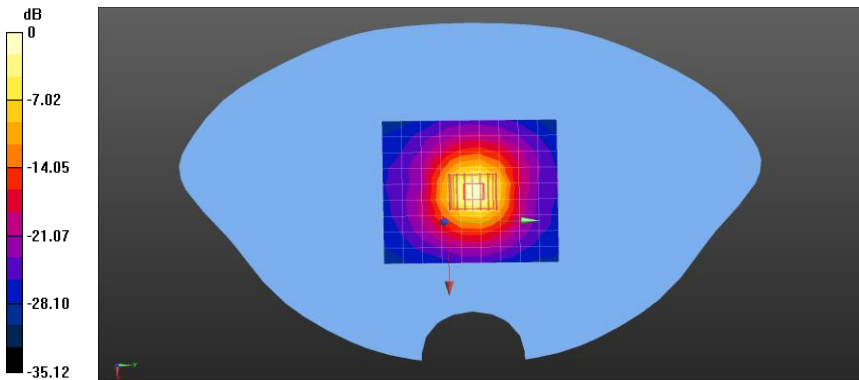
System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5200 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (7x7x6)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 73.141 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 32.5 W/kg

SAR(1 g) = 8.07 W/kg; SAR(10 g) = 2.12 W/kg

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



0dB = 17.9 W/kg = 12.85 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 96 of 127

Date: 2022/08/12

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 5500MHz

DUT: Dipole 5600 MHz; Type: D5GHzV2; Serial: 1095

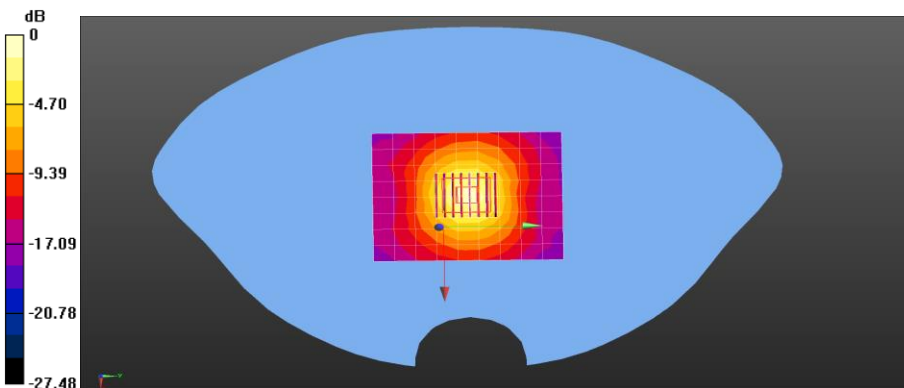
Communication System: UID 0, CW (0); Frequency: 5500 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5500 \text{ MHz}$; $\sigma = 5.051 \text{ S/m}$; $\epsilon_r = 34.69$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.70, 4.70, 4.70); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5500 MHz/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 18.5 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5500 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
 Reference Value = 71.27 V/m; Power Drift = 0.12 dB
 Peak SAR (extrapolated) = 27.8 W/kg
SAR(1 g) = 8.42 W/kg; SAR(10 g) = 2.25 W/kg
 Maximum value of SAR (measured) = 19.5 W/kg



0dB = 19.5 W/kg = 11.25 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 97 of 127

Date: 2022/08/13

Test Laboratory: Compliance Certification Services Inc.

System Performance Check-Head 5800MHz

DUT: Dipole 5800 MHz; Type: D5GHzV2; Serial: 1095

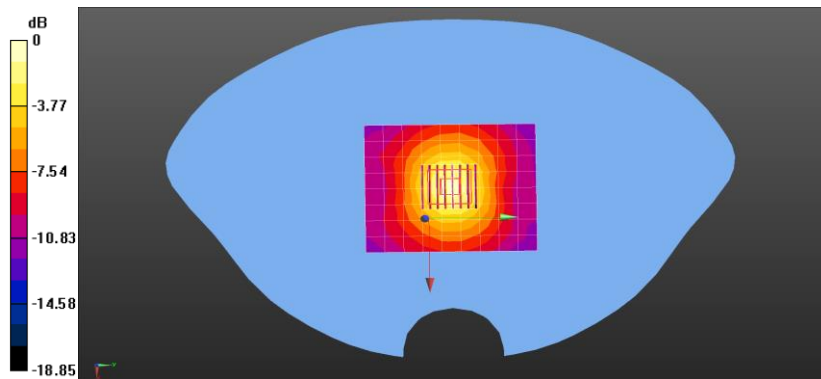
Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 5800 \text{ MHz}$; $\sigma = 5.247 \text{ S/m}$; $\epsilon_r = 34.42$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.75, 4.75, 4.75); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5800 MHz/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 17.6 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5800 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
 Reference Value = 68.43 V/m; Power Drift = 0.12 dB
 Peak SAR (extrapolated) = 34.5 W/kg
SAR(1 g) = 8.18 W/kg; SAR(10 g) = 2.32 W/kg
 Maximum value of SAR (measured) = 19.1 W/kg



0dB = 19.1 W/kg = 11.92 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 98 of 127

Appendix B: Detailed Test Results

The plots of worse case are showing as followings.



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 99 of 127

Date: 2022/08/05

Test Laboratory: Compliance Certification Services Inc.

GSM850-10mm

DUT: Mobile POS; Type: D190

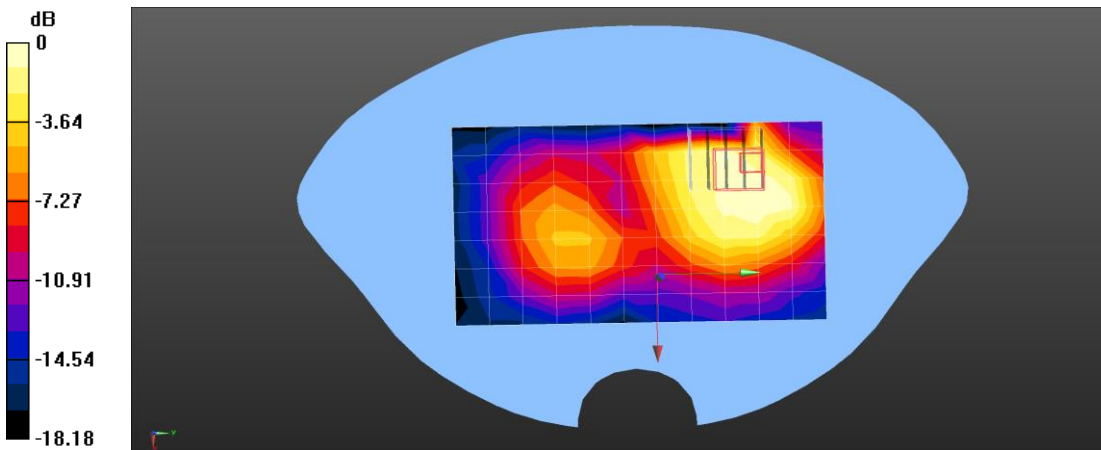
Communication System: GPRS/EGPRS-2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.15
 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.937 \text{ S/m}$; $\epsilon_r = 42.167$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(10.12, 10.12, 10.12); Calibrated: 2022/3/30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/BACK/Area Scan (8x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.122 W/kg

Configuration/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 3.975 V/m; Power Drift = 0.03 dB
 Peak SAR (extrapolated) = 0.0110 W/kg
SAR(1 g) = 0.591 W/kg; SAR(10 g) = 0.341 W/kg.
 Maximum value of SAR (measured) = 0.891 W/kg



0 dB = 0.891 W/kg = -9.14 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 100 of 127

Date: 2022/08/05

Test Laboratory: Compliance Certification Services Inc.

GSM850-0mm

DUT: Mobile POS; Type: D190

Communication System: GPRS/EGPRS-2TX; Frequency: 836.6 MHz; Duty Cycle: 1:4.15

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.9$ S/m; $\epsilon_r = 41.31$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(10.12, 10.12, 10.12); Calibrated: 2022/3/30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM1; Type: QD000P40CB; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/BACK/Area Scan (8x12x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 2.55 W/kg

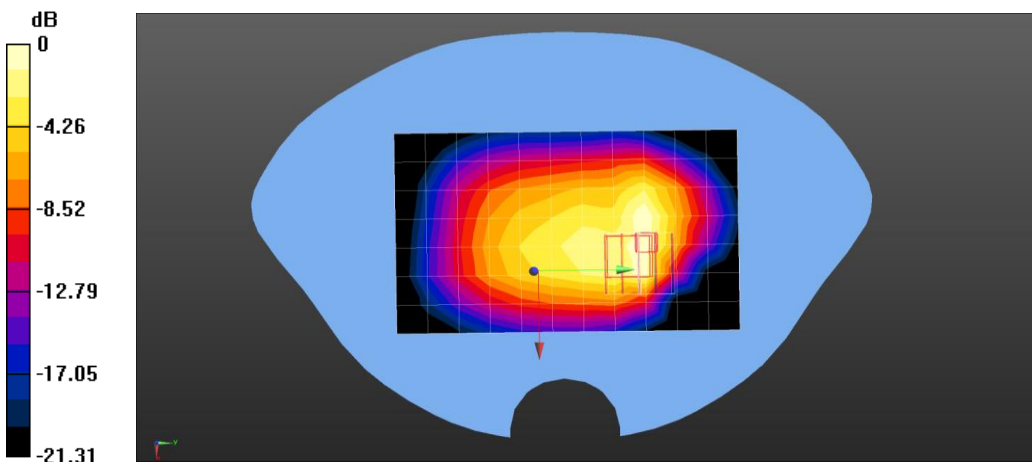
Configuration/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 3.975 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 4.10 W/kg

SAR(1 g) = 1.87 W/kg; SAR(10 g) = 1.04 W/kg

Maximum value of SAR (measured) = 2.23 W/kg



0 dB = 2.55 W/kg = 4.07 dBW/kg

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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 101 of 127

Date: 2022/08/08

Test Laboratory: Compliance Certification Services Inc.

PCS1900-10mm

DUT: Mobile POS; Type: D190

Communication System: GPRS/EGPRS-2TX; Frequency: 1909.8 MHz; Duty Cycle: 1:4.15

Medium parameters used: $f = 1909.8 \text{ MHz}$; $\sigma = 1.417 \text{ S/m}$; $\epsilon_r = 40.165$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.48, 8.48, 8.48); Calibrated: 2022/3/30;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/BACK/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.146 W/kg

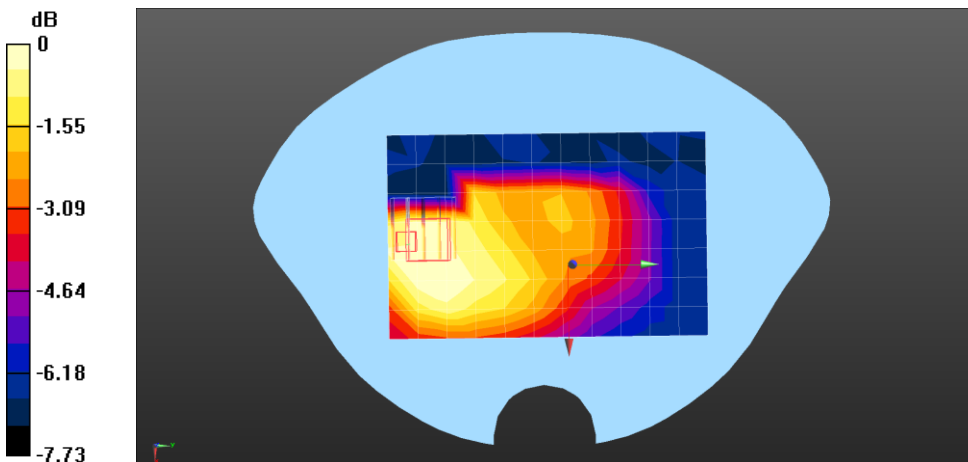
Configuration/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.336 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0110 W/kg

SAR(1 g) = 0.736 W/kg; SAR(10 g) = 0.328 W/kg

Maximum value of SAR (measured) = 0.769 W/kg



0 dB = 0.769 W/kg = -21.14 dBW/kg

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Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 102 of 127

Date: 2022/08/08

Test Laboratory: Compliance Certification Services Inc.

PCS1900-0mm

DUT: Mobile POS; Type: D190

Communication System: GPRS/EGPRS-2TX; Frequency: 1880 MHz; Duty Cycle: 1:4.15

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 39.74$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.48, 8.48, 8.48); Calibrated: 2022/3/30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/BACK/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.66 W/kg

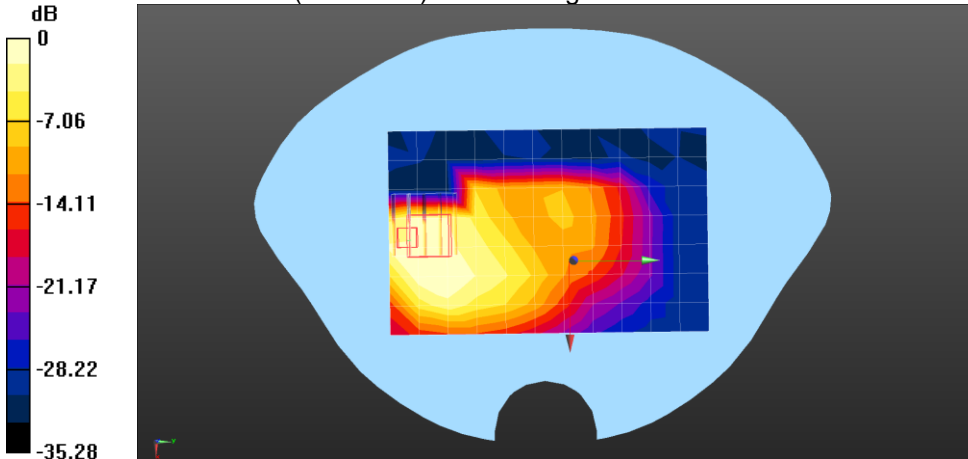
Configuration/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.336 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 4.97 W/kg

SAR(1 g) = 2.33 W/kg; SAR(10 g) = 1.04 W/kg

Maximum value of SAR (measured) = 2.54 W/kg



0 dB = 2.54 W/kg = 4.05 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 103 of 127

Date: 2022/08/08

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

WCDMA Band 2 RMC Back side CH9262 10mm

DUT: Mobile POS; Type: D190

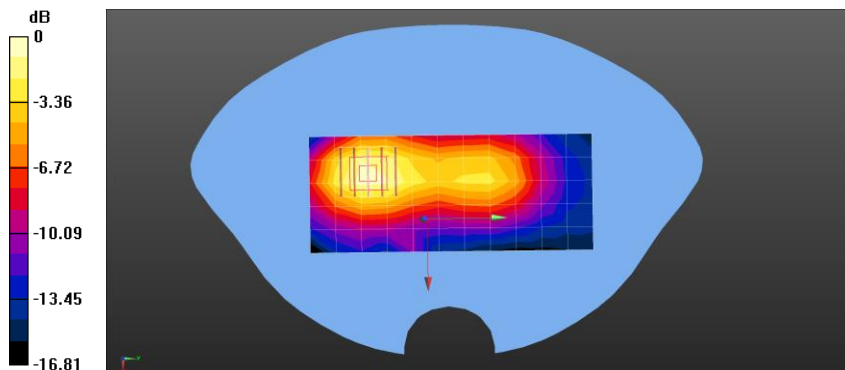
Communication System: UID 0, WCDMA / UMTS (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.405 \text{ S/m}$; $\epsilon_r = 38.64$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.48, 8.48, 8.48); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASYS52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head/Area Scan (6x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.552 W/kg

Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 1.563 V/m; Power Drift = -0.02 dB
 Peak SAR (extrapolated) = 0.870 W/kg
SAR(1 g) = 0.525 W/kg; SAR(10 g) = 0.304 W/kg
 Maximum value of SAR (measured) = 0.635 W/kg



0 dB = 0.635 W/kg = -1.97 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 104 of 127

Date: 2022/08/08

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

WCDMA Band 2 RMC Back side CH9262 10mm

DUT: Mobile POS; Type: D190

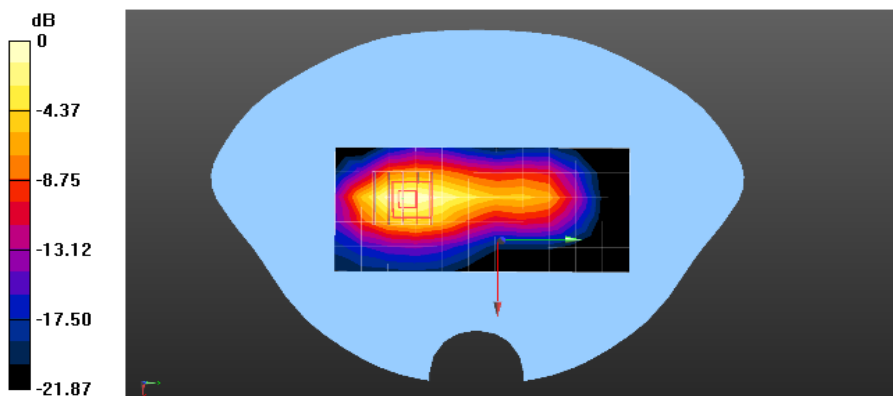
Communication System: UID 0, WCDMA / UMTS (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 1852.4 \text{ MHz}$; $\sigma = 1.405 \text{ S/m}$; $\epsilon_r = 38.64$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASYS5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.48, 8.48, 8.48); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASYS52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head/Area Scan (6x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 2.98 W/kg

Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 25.684 V/m; Power Drift = -0.19 dB
 Peak SAR (extrapolated) = 4.54 W/kg
SAR(1 g) = 2.45 W/kg; SAR(10 g) = 1.28 W/kg
 Maximum value of SAR (measured) = 3.09 W/kg



0 dB = 3.09 W/kg = 4.90 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 105 of 127

Date: 2022/08/06

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

WCDMA Band 4 RMC Back side CH1312 10mm

DUT: Mobile POS; Type: D190

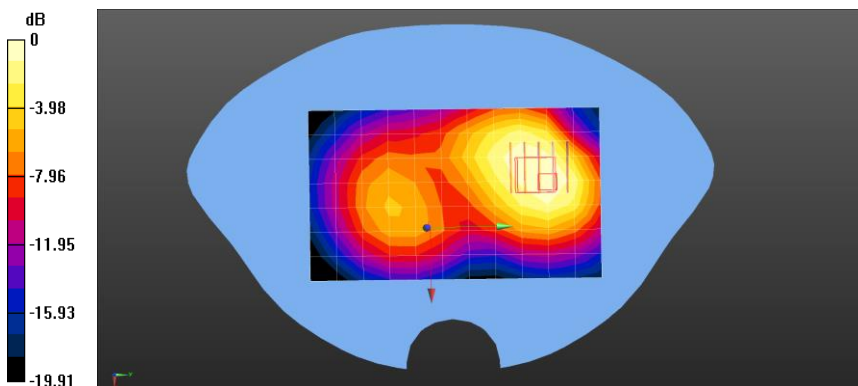
Communication System: UID 0, WCDMA / UMTS (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 1712.4 \text{ MHz}$; $\sigma = 1.313 \text{ S/m}$; $\epsilon_r = 38.554$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.83, 8.83, 8.83); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.909 W/kg

Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 1.586 V/m; Power Drift = 0.07 dB
 Peak SAR (extrapolated) = 1.28 W/kg
SAR(1 g) = 0.769 W/kg; SAR(10 g) = 0.477 W/kg
 Maximum value of SAR (measured) = 0.905 W/kg



0 dB = 0.905 W/kg = -0.43 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 106 of 127

Date: 2022/08/06

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

WCDMA Band 4 RMC Back side CH1312 10mm

DUT: Mobile POS; Type: D190

Communication System: UID 0, WCDMA / UMTS (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 1712.4 \text{ MHz}$; $\sigma = 1.313 \text{ S/m}$; $\epsilon_r = 38.554$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.83, 8.83, 8.83); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

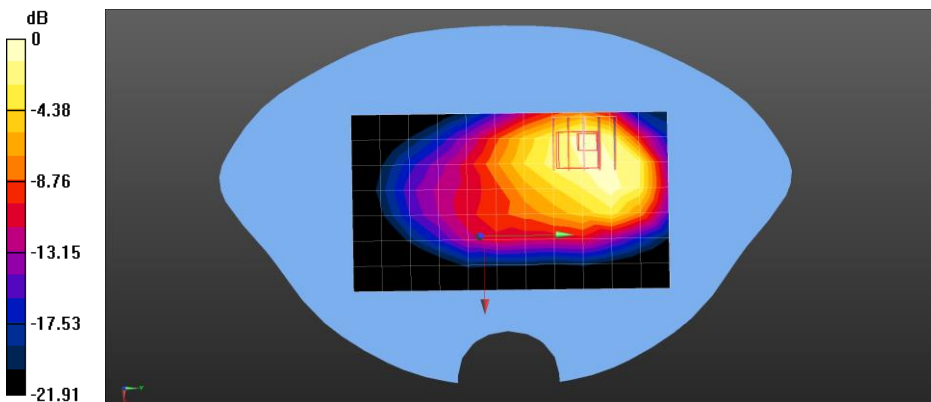
Configuration/Head/Area Scan (8x12x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 3.14 W/kg

Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 1.586 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 5.53 W/kg

SAR(1 g) = 2.7 W/kg; SAR(10 g) = 1.52 W/kg

Maximum value of SAR (measured) = 3.38 W/kg



0 dB = 3.38 W/kg = -5.29 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 107 of 127

Date: 2022/08/05

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

WCDMA Band 5 RMC Front side CH4233 10mm

DUT: Mobile POS; Type: D190

Communication System: UID 0, WCDMA / UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 846.6 \text{ MHz}$; $\sigma = 0.909 \text{ S/m}$; $\epsilon_r = 40.614$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(10.12, 10.12, 10.12); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head/Area Scan (8x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.741 W/kg

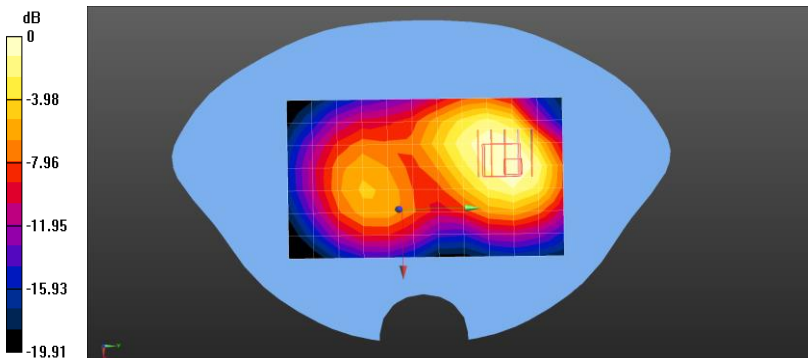
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.073 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.866 W/kg

SAR(1 g) = 0.972 W/kg; SAR(10 g) = 0.501 W/kg

Maximum value of SAR (measured) = 0.742 W/kg



0 dB = 0.742 W/kg = -1.30 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 108 of 127

Date: 2022/08/05

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

WCDMA Band 5 RMC Front side CH4233 0mm

DUT: Mobile POS; Type: D190

Communication System: UID 0, WCDMA / UMTS (0); Frequency: 846.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 846.6 \text{ MHz}$; $\sigma = 0.909 \text{ S/m}$; $\epsilon_r = 40.614$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 - SN7346; ConvF(10.12, 10.12, 10.12); Calibrated: 2022/03/30;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Head/Area Scan (8x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.76 W/kg

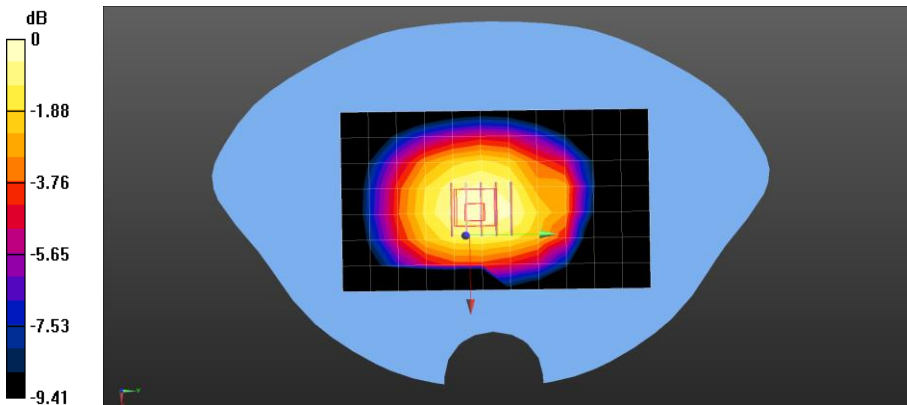
Configuration/Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.454 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.17 W/kg

SAR(1 g) = 1.61 W/kg; SAR(10 g) = 0.966 W/kg

Maximum value of SAR (measured) = 1.93 W/kg



0 dB = 1.93 W/kg = 2.86 dBW/kg

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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 109 of 127

Date: 2022/08/08

Test Laboratory: Compliance Certification Services Inc.

LTE Band2-10mm

DUT: Mobile POS; Type: D190

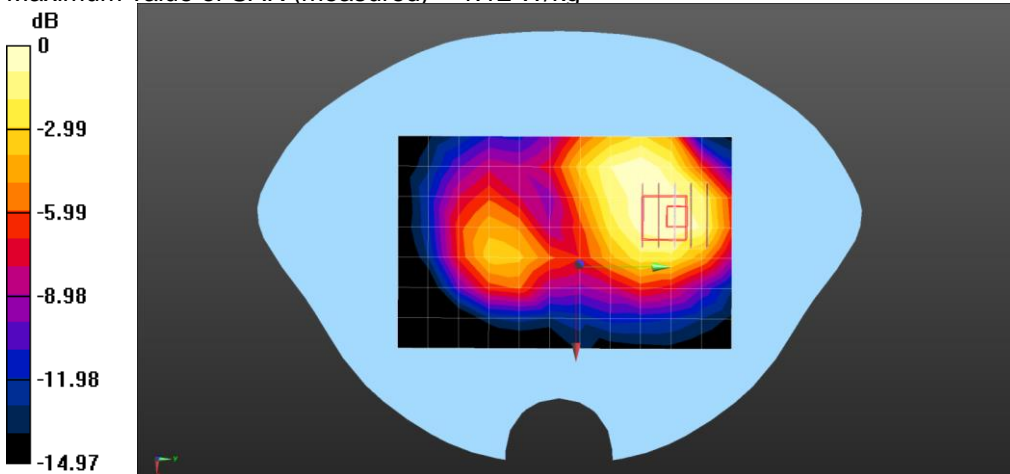
Communication System: Generic LTE; Frequency: 1910 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1910 \text{ MHz}$; $\sigma = 1.417 \text{ S/m}$; $\epsilon_r = 40.165$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.48, 8.48, 8.48); Calibrated: 2022/3/30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/BACK-10/Area Scan (8x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.111 W/kg

Configuration/BACK-10/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 4.036 V/m; Power Drift = -0.04 dB
 Peak SAR (extrapolated) = 0.158 W/kg
SAR(1 g) = 0.869 W/kg; SAR(10 g) = 0.423 W/kg
 Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = -9.51 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201
 Page: 110 of 127

Date: 2022/08/08

Test Laboratory: Compliance Certification Services Inc.

LTE Band2-0mm

DUT: Mobile POS; Type: D190

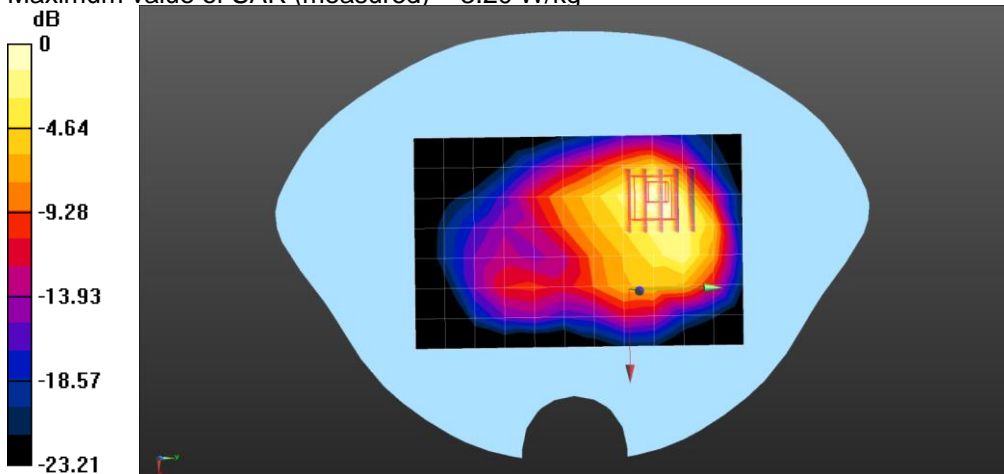
Communication System: Generic LTE; Frequency: 1910 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1910 \text{ MHz}$; $\sigma = 1.45 \text{ S/m}$; $\epsilon_r = 39.74$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.48, 8.48, 8.48); Calibrated: 2022/3/30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/BACK/Area Scan (8x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 3.40 W/kg

Configuration/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 3.901 V/m; Power Drift = -0.14 dB
 Peak SAR (extrapolated) = 6.36 W/kg
SAR(1 g) = 2.74 W/kg; SAR(10 g) = 1.34 W/kg
 Maximum value of SAR (measured) = 3.20 W/kg



0 dB = 3.20 W/kg = 5.05 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 111 of 127

Date: 2022/08/06

Test Laboratory: Compliance Certification Services Inc.

LTE Band4-10mm

DUT: Mobile POS; Type: D190

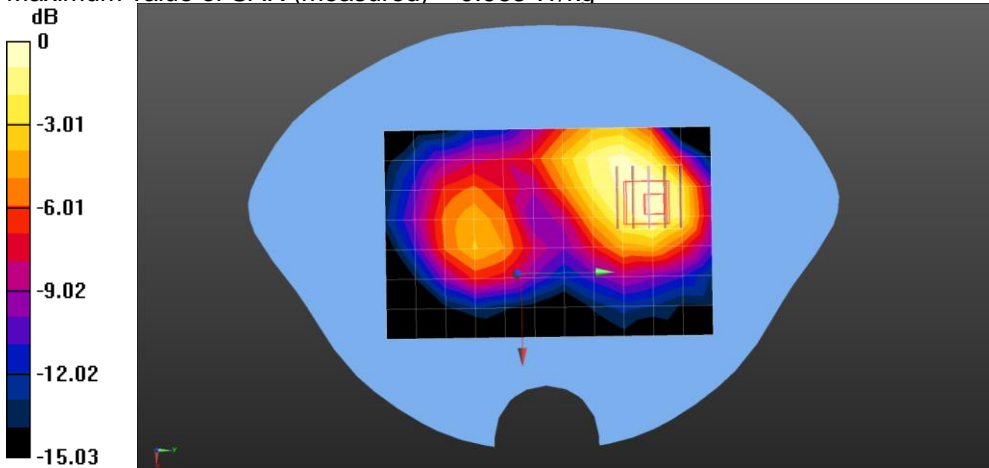
Communication System: Generic LTE; Frequency: 1745 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1745 \text{ MHz}$; $\sigma = 1.357 \text{ S/m}$; $\epsilon_r = 40.374$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.83, 8.83, 8.83); Calibrated: 2022/3/30;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration 4/BACK-10/Area Scan (8x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.0985 W/kg

Configuration 4/BACK-10/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 2.897 V/m; Power Drift = 0.15 dB
 Peak SAR (extrapolated) = 0.137 W/kg
SAR(1 g) = 0.705 W/kg; SAR(10 g) = 0.388 W/kg
 Maximum value of SAR (measured) = 0.963 W/kg



0 dB = 0.963 W/kg = -10.16 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201
Page: 112 of 127

Date: 2022/08/06

Test Laboratory: Compliance Certification Services Inc.

LTE Band4-0mm

DUT: Mobile POS; Type: D190

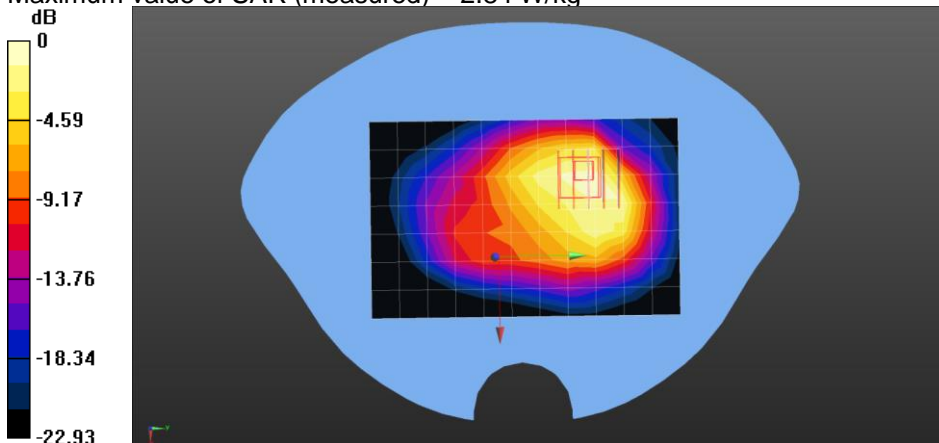
Communication System: Generic LTE; Frequency: 1745 MHz; Duty Cycle: 1:1
Medium parameters used: $f = 1745\text{MHz}$; $\sigma = 1.363\text{ S/m}$; $\epsilon_r = 40.136$; $\rho = 1000\text{ kg/m}^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.83, 8.83, 8.83); Calibrated: 2022/3/30;
 - Modulation Compensation:
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/BACK/Area Scan (8x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 2.36 W/kg

Configuration/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 18.996 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 4.85 W/kg
SAR(1 g) = 2.23 W/kg; SAR(10 g) = 1.23 W/kg
Maximum value of SAR (measured) = 2.84 W/kg



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



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 113 of 127

Date: 2022/08/05

Test Laboratory: Compliance Certification Services Inc.

LTE Band5

DUT: Mobile POS; Type: D190

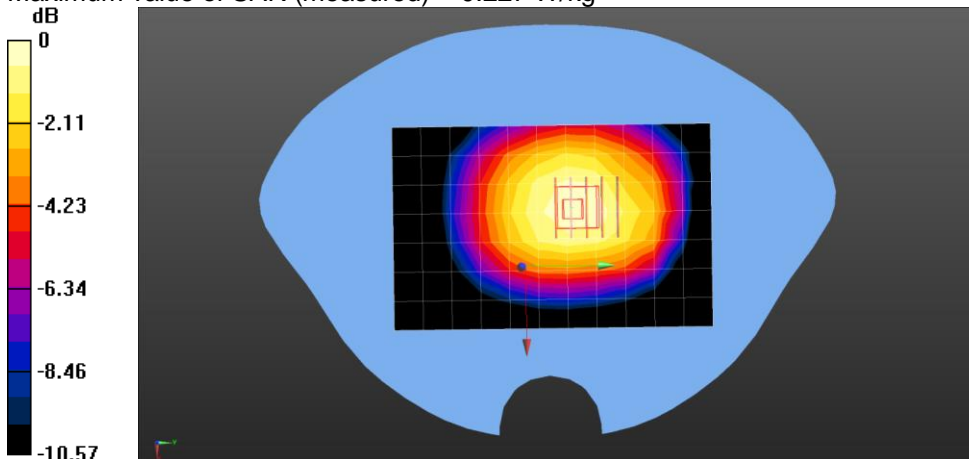
Communication System: Generic LTE; Frequency: 829 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 829 \text{ MHz}$; $\sigma = 0.933 \text{ S/m}$; $\epsilon_r = 42.213$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(10.12, 10.12, 10.12); Calibrated: 2022/3/30;
 - Modulation Compensation:
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/BACK/Area Scan (8x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.220 W/kg

Configuration/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 14.782 V/m; Power Drift = 0.08 dB
 Peak SAR (extrapolated) = 0.262 W/kg
SAR(1 g) = 0.666 W/kg; SAR(10 g) = 0.363 W/kg
 Maximum value of SAR (measured) = 0.227 W/kg



0 dB = 0.227 W/kg = -6.44 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201
 Page: 114 of 127

Date: 2022/08/05

Test Laboratory: Compliance Certification Services Inc.

LTE Band5

DUT: Mobile POS; Type: D190

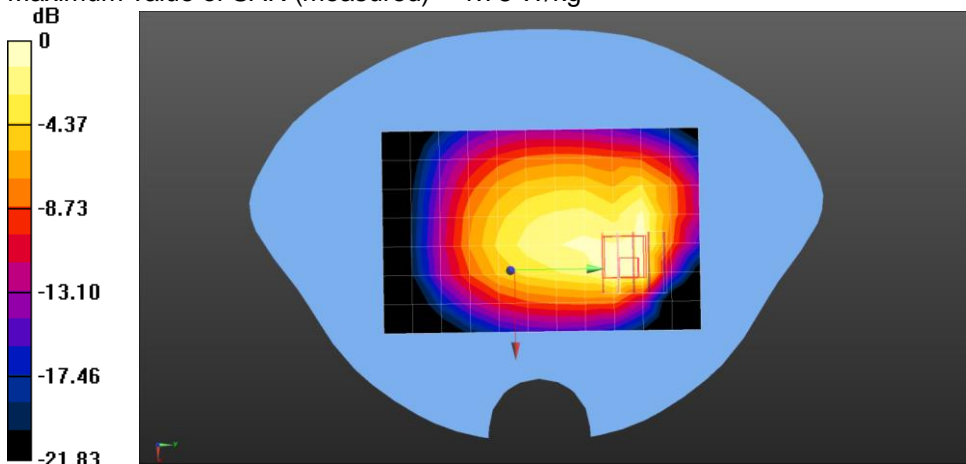
Communication System: Generic LTE; Frequency: 1829 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 829 \text{ MHz}$; $\sigma = 0.933 \text{ S/m}$; $\epsilon_r = 42.213$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(10.12, 10.12, 10.12); Calibrated: 2022/03/30;
 - Modulation Compensation:
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/BACK/Area Scan (8x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 1.60 W/kg

Configuration/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 34.183 V/m; Power Drift = -0.18 dB
 Peak SAR (extrapolated) = 4.26 W/kg
SAR(1 g) = 1.29 W/kg; SAR(10 g) = 0.669 W/kg
 Maximum value of SAR (measured) = 1.78 W/kg



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



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 115 of 127

Date: 2022/08/10

Test Laboratory: Compliance Certification Services Inc.

LTE Band7-10mm

DUT: Mobile POS; Type: D190

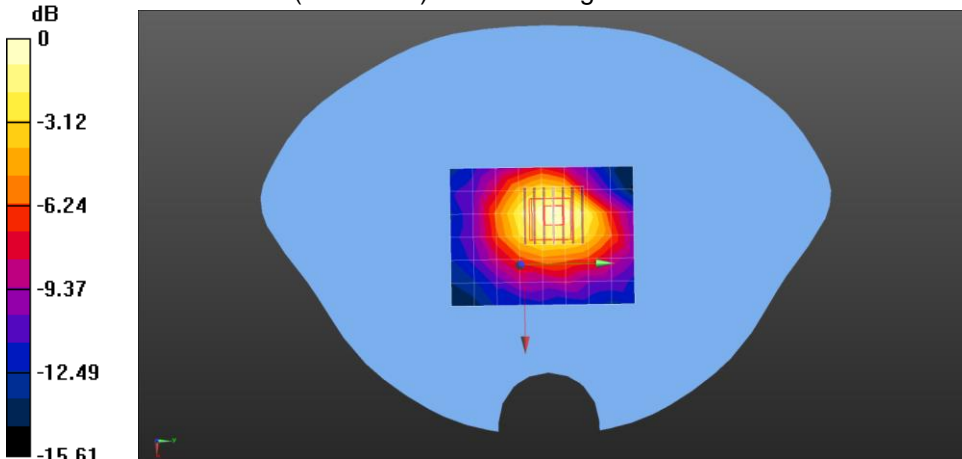
Communication System: Generic LTE; Frequency: 2510 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2510$ MHz; $\sigma = 1.885$ S/m; $\epsilon_r = 39.214$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.33, 7.33, 7.33); Calibrated: 2022/3/30;
 - Modulation Compensation:
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Bottom/Area Scan (7x9x1): Measurement grid: $dx=12$ mm, $dy=12$ mm
 Maximum value of SAR (measured) = 0.118 W/kg

Configuration/Bottom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
 Reference Value = 8.961 V/m; Power Drift = -0.13 dB
 Peak SAR (extrapolated) = 0.164 W/kg
SAR(1 g) = 0.657 W/kg; SAR(10 g) = 0.227 W/kg
 Maximum value of SAR (measured) = 0.122 W/kg



0 dB = 0.122 W/kg = -9.14 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 116 of 127

Date: 2022/08/10

Test Laboratory: Compliance Certification Services Inc.

LTE Band7-0mm

DUT: Mobile POS; Type: D190

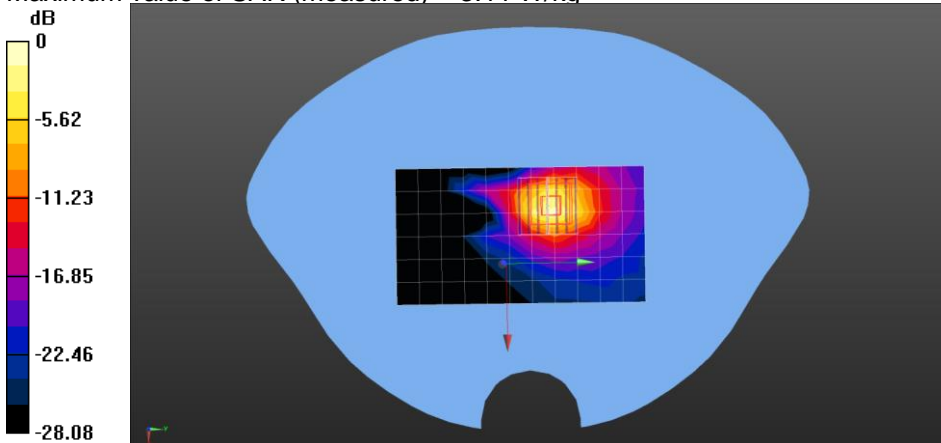
Communication System: Generic LTE; Frequency: 2510 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 2510$ MHz; $\sigma = 1.95$ S/m; $\epsilon_r = 37.7$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.33, 7.33, 7.33); Calibrated: 2022/3/30;
 - Modulation Compensation:
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/Bottom/Area Scan (7x12x1): Measurement grid: $dx=12$ mm, $dy=12$ mm
 Maximum value of SAR (measured) = 2.52 W/kg

Configuration/Bottom/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
 Reference Value = 8.961 V/m; Power Drift = -0.17 dB
 Peak SAR (extrapolated) = 5.97 W/kg
SAR(1 g) = 2.08 W/kg; SAR(10 g) = 0.718 W/kg
 Maximum value of SAR (measured) = 3.11 W/kg



0 dB = 3.11 W/kg = 4.93 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 117 of 127

Date: 2022/08/06

Test Laboratory: Compliance Certification Services Inc.

LTE Band66-10mm

DUT: Mobile POS; Type: D190

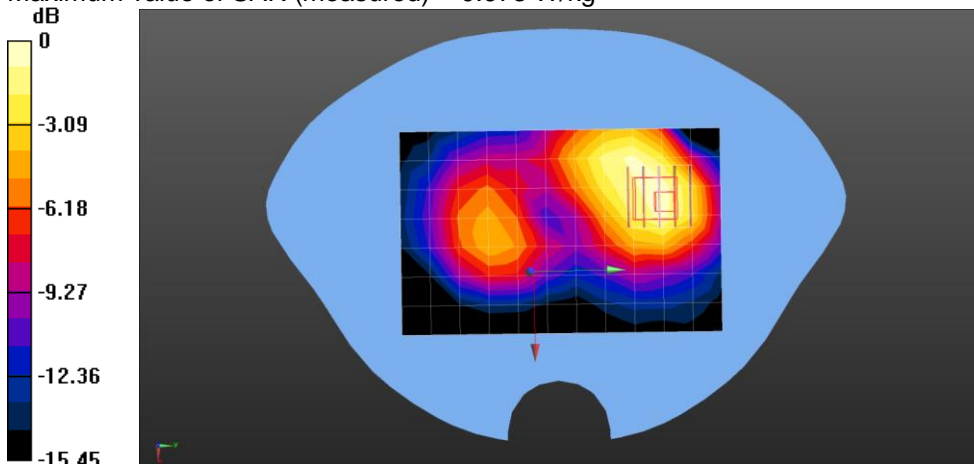
Communication System: Generic LTE; Frequency: 1720 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1720 \text{ MHz}$; $\sigma = 1.365 \text{ S/m}$; $\epsilon_r = 40.358$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.83, 8.83, 8.83); Calibrated: 2022/3/30;
 - Modulation Compensation:
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/BACK/Area Scan (8x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.0887 W/kg

Configuration/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 2.673 V/m; Power Drift = 0.07 dB
 Peak SAR (extrapolated) = 0.136 W/kg
SAR(1 g) = 0.588 W/kg; SAR(10 g) = 0.313 W/kg
 Maximum value of SAR (measured) = 0.973 W/kg



0 dB = 0.973 W/kg = -10.12 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 118 of 127

Date: 2022/08/06

Test Laboratory: Compliance Certification Services Inc.

LTE Band66-0mm

DUT: Mobile POS; Type: D190

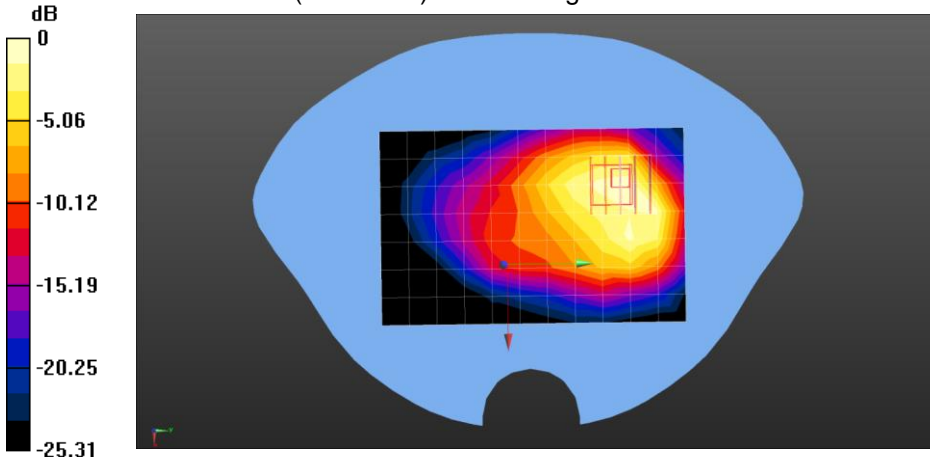
Communication System: Generic LTE; Frequency: 1720 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1720 \text{ MHz}$; $\sigma = 1.375 \text{ S/m}$; $\epsilon_r = 40.053$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(8.83, 8.83, 8.83); Calibrated: 2022/3/30;
 - Modulation Compensation:
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/BACK/Area Scan (8x12x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 2.00 W/kg

Configuration/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 2.673 V/m; Power Drift = -0.08 dB
 Peak SAR (extrapolated) = 4.30 W/kg
SAR(1 g) = 1.86 W/kg; SAR(10 g) = 0.991 W/kg
 Maximum value of SAR (measured) = 2.26 W/kg



0 dB = 2.26 W/kg = 3.54 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 119 of 127

Date: 2022/08/09

Test Laboratory: Compliance Certification Services Inc.

2.4G - 10mm

DUT: Mobile POS; Type: D190

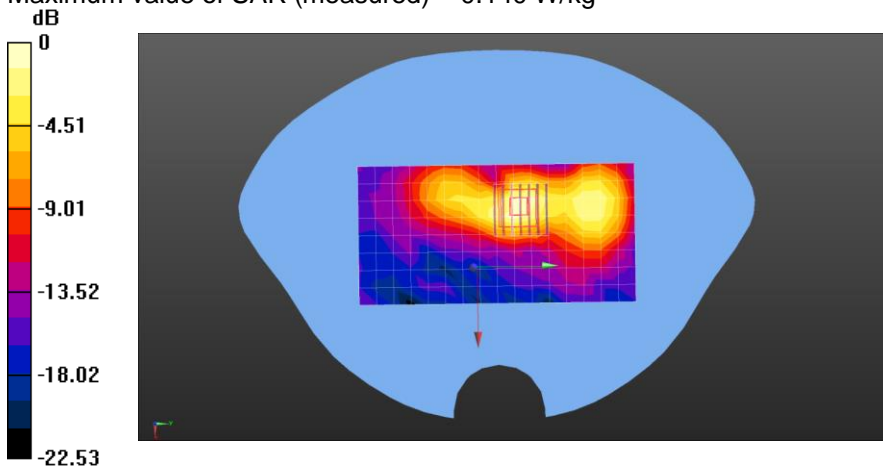
Communication System: BT/WIFI; Frequency: 2437 MHz; Duty Cycle: 1:1.012
 Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.89 \text{ S/m}$; $\epsilon_r = 38$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.63, 7.63, 7.63); Calibrated: 2022/3/30;
 - Modulation Compensation:
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/RIGHT/Area Scan (9x17x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$
 Maximum value of SAR (measured) = 0.118 W/kg

Configuration/RIGHT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 3.322 V/m; Power Drift = 0.14 dB
 Peak SAR (extrapolated) = 0.513 W/kg
SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.044 W/kg
 Maximum value of SAR (measured) = 0.140 W/kg



0 dB = 0.140 W/kg = -8.54 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201
Page: 120 of 127

Date: 2022/08/10

Test Laboratory: Compliance Certification Services Inc.

2.4G-0

DUT: Mobile POS; Type: D190

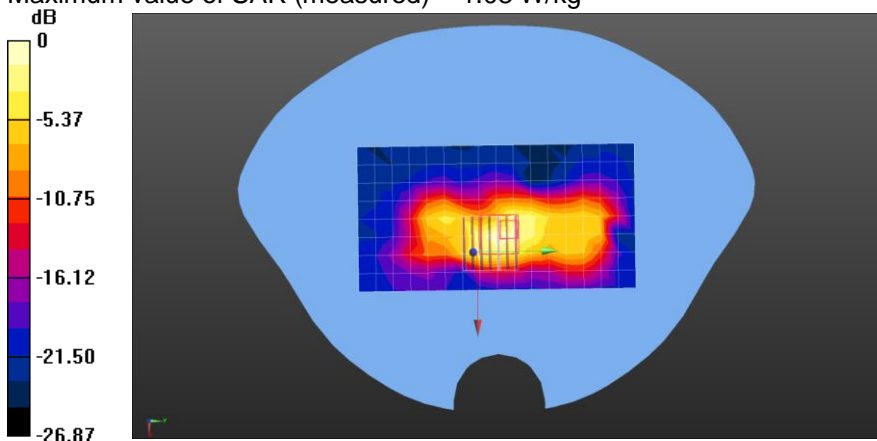
Communication System: BT/WIFI; Frequency: 2437 MHz; Duty Cycle: 1:1.012
Medium parameters used: $f = 2437$ MHz; $\sigma = 1.89$ S/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(7.63, 7.63, 7.63); Calibrated: 2022/3/30;
 - Modulation Compensation:
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = -2.0, 31.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/RIGHT/Area Scan (9x17x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (measured) = 0.967 W/kg

Configuration/RIGHT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 9.060 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 2.23 W/kg
SAR(1 g) = 0.746 W/kg; SAR(10 g) = 0.248 W/kg
Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201
 Page: 121 of 127

Date: 2022/08/11

Test Laboratory: Compliance Certification Services Inc.

5.2G

DUT: Mobile POS; Type: D190

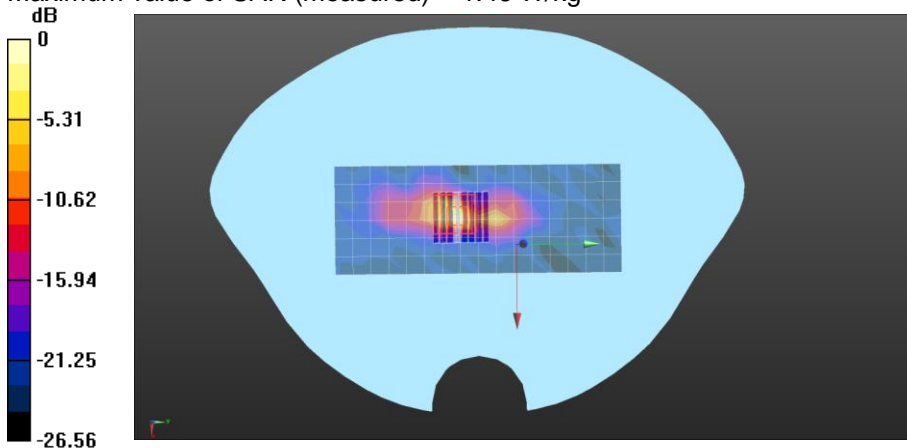
Communication System Band: 5.2G&5.3G; Frequency: 5300 MHz; Duty Cycle: 1:1.072
 Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 4.612 \text{ S/m}$; $\epsilon_r = 35.129$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(5.25, 5.25,5.25); Calibrated: 2022/03/30;
 - Modulation Compensation:
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = -2.0, 29.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/RIGHT/Area Scan (7x17x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
 Maximum value of SAR (measured) = 1.55 W/kg

Configuration/RIGHT/Zoom Scan (8x8x15)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
 Reference Value = 5.812 V/m; Power Drift = 0.04 dB
 Peak SAR (extrapolated) = 4.37 W/kg
SAR(1 g) = 0.309 W/kg; SAR(10 g) = 0.155 W/kg
 Maximum value of SAR (measured) = 1.46 W/kg



0 dB = 1.46 W/kg = 1.64 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 122 of 127

Date: 2022/08/11

Test Laboratory: Compliance Certification Services Inc.

5.2G

DUT: Mobile POS; Type: D190

Communication System Band: 5.2G&5.3G; Frequency: 5300 MHz; Duty Cycle: 1:1.072

Medium parameters used: $f = 5300$ MHz; $\sigma = 4.612$ S/m; $\epsilon_r = 35.129$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(5.25, 5.25, 5.25); Calibrated: 2022/03/30;
 - Modulation Compensation:
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = -2.0, 29.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/RIGHT/Area Scan (7x17x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 3.10 W/kg

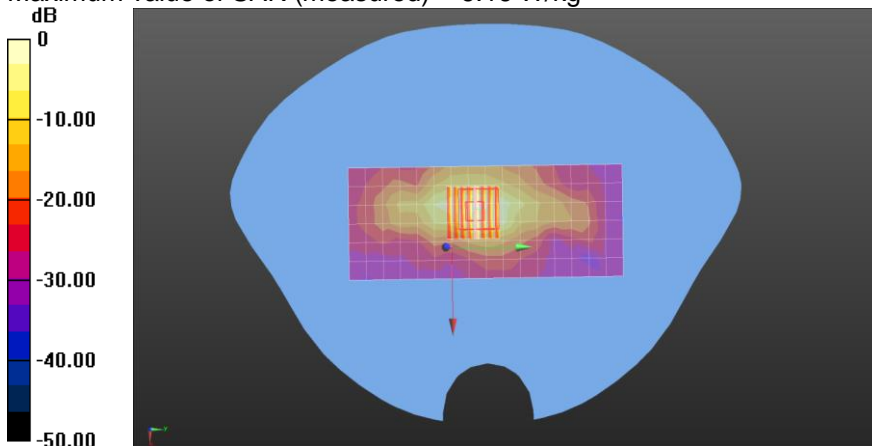
Configuration/RIGHT/Zoom Scan (8x8x15)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 20.074 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 13.1 W/kg

SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.354 W/kg

Maximum value of SAR (measured) = 6.16 W/kg



0 dB = 6.16 W/kg = 7.90 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201
 Page: 123 of 127

Date: 2022/08/12

Test Laboratory: Compliance Certification Services Inc.

5.6G

DUT: Mobile POS; Type: D190

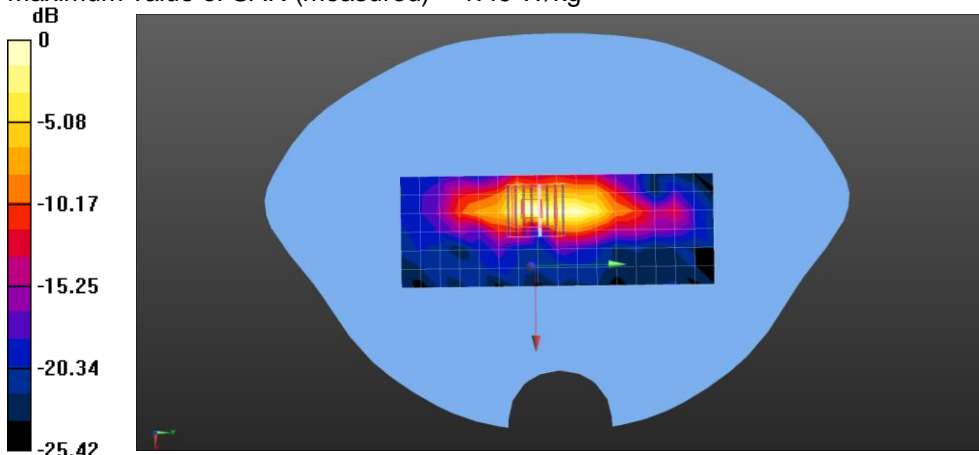
Communication System Band: 5.6; Frequency: 5500 MHz; Duty Cycle: 1:1.074
 Medium parameters used: $f = 5500$ MHz; $\sigma = 4.92$ S/m; $\epsilon_r = 34.489$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.70, 4.70, 4.70); Calibrated: 2022/03/30;
 - Modulation Compensation:
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = -2.0, 29.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/RIGHT/Area Scan (7x17x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
 Maximum value of SAR (measured) = 1.67 W/kg

Configuration/RIGHT/Zoom Scan (8x8x15)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
 Reference Value = 5.131 V/m; Power Drift = 0.03 dB
 Peak SAR (extrapolated) = 3.83 W/kg
SAR(1 g) = 0.150 W/kg; SAR(10 g) = 0.060 W/kg
 Maximum value of SAR (measured) = 1.49 W/kg



0 dB = 0.49 W/kg = 1.73 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 124 of 127

Date: 2022/08/12

Test Laboratory: Compliance Certification Services Inc.

5.6G

DUT: Mobile POS; Type: D190

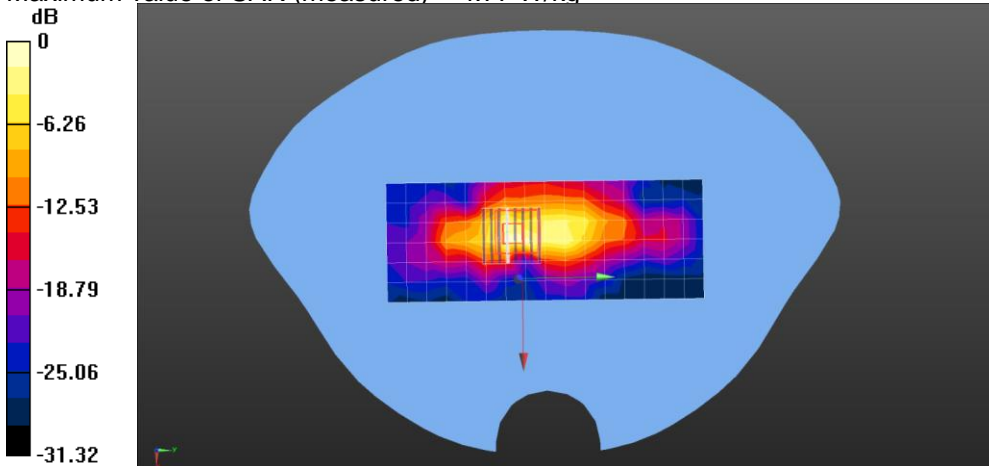
Communication System Band: 5.6; Frequency: 5500 MHz; Duty Cycle: 1:1.074
 Medium parameters used: $f = 5500$ MHz; $\sigma = 4.92$ S/m; $\epsilon_r = 34.489$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.70, 4.70, 4.70); Calibrated: 2022/03/30;
 - Modulation Compensation:
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = -2.0, 29.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/RIGHT/Area Scan (7x17x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
 Maximum value of SAR (measured) = 3.70 W/kg

Configuration/RIGHT/Zoom Scan (8x8x15)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
 Reference Value = 17.697 V/m; Power Drift = -0.13 dB
 Peak SAR (extrapolated) = 11.8 W/kg
SAR(1 g) = 0.697 W/kg; SAR(10 g) = 0.206 W/kg
 Maximum value of SAR (measured) = 4.77 W/kg



0 dB = 1.77 W/kg = 6.79 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 125 of 127

Date: 2022/08/13

Test Laboratory: Compliance Certification Services Inc.

5.8G

DUT: Mobile POS; Type: D190

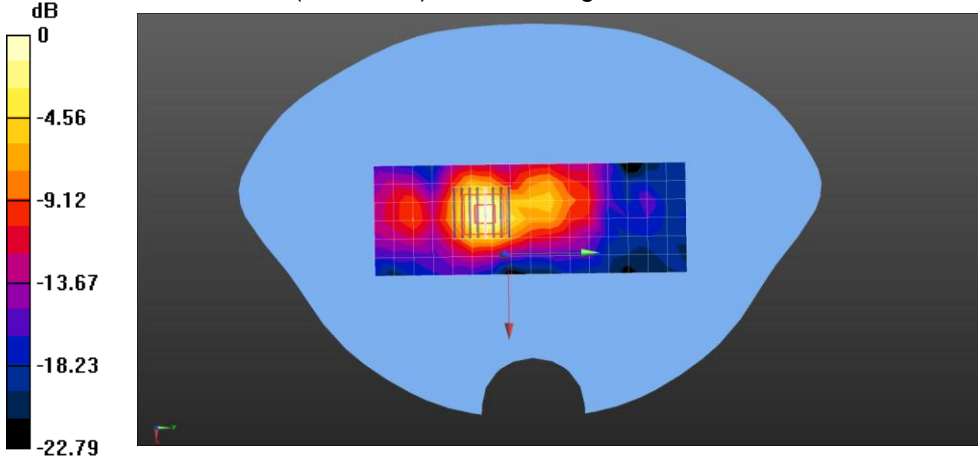
Communication System Band: 5.8; Frequency: 5825 MHz; Duty Cycle: 1:1.073
 Medium parameters used: $f = 5825$ MHz; $\sigma = 5.253$ S/m; $\epsilon_r = 33.854$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.75, 4.75, 4.75); Calibrated: 2022/03/30;
 - Modulation Compensation:
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = -2.0, 29.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASYS2, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/RIGHT/Area Scan (7x17x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
 Maximum value of SAR (measured) = 0.801 W/kg

Configuration/RIGHT/Zoom Scan (8x8x15)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm
 Reference Value = 13.149 V/m; Power Drift = 0.07 dB
 Peak SAR (extrapolated) = 1.68 W/kg
SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.056 W/kg
 Maximum value of SAR (measured) = 0.278 W/kg



0 dB = 0.278 W/kg = -0.57 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 126 of 127

Date: 2022/08/13

Test Laboratory: Compliance Certification Services Inc.

5.8G

DUT: Mobile POS; Type: D190

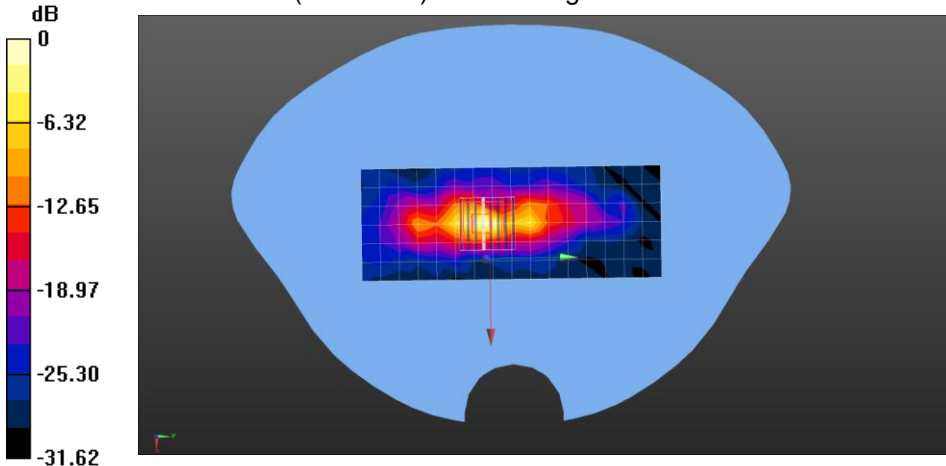
Communication System Band: 5.8; Frequency: 5825 MHz; Duty Cycle: 1:1.073
 Medium parameters used: $f = 5825 \text{ MHz}$; $\sigma = 5.253 \text{ S/m}$; $\epsilon_r = 33.854$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section
 Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: EX3DV4 - SN7346; ConvF(4.75, 4.75, 4.75); Calibrated: 2022/03/30;
 - Modulation Compensation:
- Sensor-Surface: 2mm (Mechanical Surface Detection), $z = -2.0, 29.0$
- Electronics: DAE4 Sn1245; Calibrated: 2022/05/30
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/RIGHT/Area Scan (7x17x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
 Maximum value of SAR (measured) = 5.94 W/kg

Configuration/RIGHT/Zoom Scan (8x8x15)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$
 Reference Value = 12.430 V/m; Power Drift = 0.05 dB
 Peak SAR (extrapolated) = 20.9 W/kg
SAR(1 g) = 0.624 W/kg; SAR(10 g) = 0.131 W/kg
 Maximum value of SAR (measured) = 7.08 W/kg



0 dB = 7.08 W/kg = 8.50 dBW/kg



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR220700116201

Page: 127 of 127

Appendix C: Calibration certificate

Appendix D: Photographs

---END---



Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

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