

SAR TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
4G Mobile Phone

ISSUED TO
Wingtech Group (Hong Kong) Limited

Flat/RM 1903, 19/F, Podium Plaza 5 Hanoi Road, Tsim Sha Tsui
Kowloon, Hong Kong



Tested by: Xu Rui

Xu Rui

Date Dec. 28, 2021

Approved by: Wei Yanquan

Wei Yanquan
(Chief Engineer)

Date Dec. 28, 2021

Report No.: BL-EC21B0667-701

EUT Name: 4G Mobile Phone

Model Name: TMRVL4G

Brand Name: REVVL V

FCC ID: 2APXW-TMRVL4G1

Test Standard: 47 CFR Part 2.1093

ANSI C95.1-1992, IEEE Std. 1528-2013

Maximum SAR: Head (1 g): 0.699 W/kg

Body (1 g): 1.277 W/kg

Sensor on (1 g): 1.113 W/kg

Specific (10g): 3.379 W/kg

Test Conclusion: Pass

Test Date: Nov.25, 2021 ~ Dec. 27, 2021

Date of Issue: Dec. 28, 2021

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Dec. 20, 2021</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Dec. 28, 2021</u>	<u>Update Procedures for determining proximity sensor distance in section 10.1;</u> <u>Update proximity sensor trigger description and SAR test distance in section 10.2;</u> <u>Update SAR test distance in section 10.2;</u> <u>Update Wi-Fi 14mm Body SAR in section 11.15 and 11.16;</u> <u>Update LTE Band 41 PC2 Extremity SAR table in section 11.14.</u>

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100
Fax Number	+86 755 6182 4271

1.1 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.2 Test Environment Condition

Ambient Temperature	21°C to 23°C
Ambient Relative Humidity	32% to 49%
Ambient Pressure	100 KPa to 102 KPa

1.3 Announce

- (1) The test report reference to the report template version v2.2.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Wingtech Group (Hong Kong) Limited
Address	Flat/RM 1903, 19/F, Podium Plaza 5 Hanoi Road, Tsim Sha Tsui Kowloon, Hong Kong

2.2 Manufacturer Information

Manufacturer	Wingtech Group (Hong Kong) Limited
Address	Flat/RM 1903, 19/F, Podium Plaza 5 Hanoi Road, Tsim Sha Tsui Kowloon, Hong Kong

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	4G Mobile Phone
Model Name Under Test	TMRVL4G
Series Model Name	N/A
Description of Model Name Differentiation	N/A
Hardware Version	98117_1_10
Software Version	TMRVL4G_0.03.25
Dimensions (Approx.)	76.5x166.99x8.65mm
Weight (Approx.)	180g(with battery)

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	Sunwoda Electronic Co., Ltd.
	Model No.	JU001
	Serial No.	N/A
	Capacitance	4000mAh
	Rated Voltage	3.85V
	Limited Voltage	4.4V

2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 MHz 3G Network WCDMA/HSDPA/HSUPA/DC-HSDPA Band 1/2/4/5 4G Network LTE FDD Band 2/4/5/12/25/26/66/71 LTE TDD Band 41_PC2/41_PC3 LTE CA Uplink(UL):CA_41C Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80)
Note : The EUT is a mobile phone that supports only one SIM card in the same transceiver. Supports GSM, WCDMA, and LTE.	

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM, WCDMA, LTE, WLAN, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 25	TX: 1850 ~ 1915 MHz	RX: 1930 ~ 1995 MHz
	LTE Band 26	TX: 814 ~ 849 MHz	RX: 859 ~ 894 MHz
	LTE Band 41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	LTE Band 71	TX: 663 ~ 698 MHz	RX: 617 ~ 652 MHz
	802.11b/g	2412 ~ 2462 MHz	
	802.11n(HT20)	2412 ~ 2462 MHz	
	802.11a	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
		5725 ~ 5850 MHz	
	802.11n(HT20/HT40)	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
5725 ~ 5850 MHz			
802.11ac(VHT20/VHT40/VHT80)	5150 ~ 5250 MHz		
	5250 ~ 5350 MHz		
	5470 ~ 5725 MHz		
	5725 ~ 5850 MHz		
Bluetooth	2402 ~ 2480 MHz		
Antenna Type	WWAN: Integrated Antenna WLAN: Integrated Antenna Bluetooth: Integrated Antenna		
DTM	Not Support		

Hotspot Function	Support	
Power Reduction	Support	
Exposure Category	General Population/Uncontrolled exposure	
EUT Stage	Portable Device	
Product	Type	
	☒ Production unit	☐ Identical prototype

Note:

1. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for held-to-ear exposure conditions.
2. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4G transmitter for near to body and limb exposure conditions.
3. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
4. This device 2.4GHz WLAN/5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz WLAN/5.5GHz WLAN supports WiFi Direct (GC only).
5. The reduction power details please refer section 8.8.

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
5	FCC KDB 941225 D01 v03r01	3G SAR MEAUREMENT PROCEDURES
6	FCC KDB 941225 D05 v02r05	SAR Evaluation Considerations for LTE Devices
7	FCC KDB 941225 D06 v02r01	SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities
8	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
9	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
10	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
11	KDB 248227 D01 v02r02	SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters

3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue and 4.0 W/kg as averaged over any 10 gram of tissue.

Table of Exposure Limits:

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ Controlled Exposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

3.3 Test Result Summary

3.3.1 Highest SAR

Band	Maximum Report SAR (W/kg)			
	Head	Body	Head	Body
GSM 850	0.279	0.424	0.699	1.277
GSM 1900	0.280	0.324		
WCDMA Band 2	0.504	1.113		
WCDMA Band 4	0.401	0.758		
WCDMA Band 5	0.303	0.579		
LTE Band 12	0.256	0.429		
LTE Band 25	0.281	0.335		
LTE Band 26	0.318	0.538		
LTE Band 41_PC3	0.169	0.584		
LTE Band 41_PC2	0.269	1.277		
LTE Band 66	0.283	0.398		
LTE Band 71	0.221	0.382		
WLAN 2.4G	0.531	0.681		
WLAN 5G	0.699	0.527		
Bluetooth	0.041	0.030		
Limit (W/kg)	1.6			
Verdict	Pass			

3.3.2 Highest Specific SAR(10 g Value)

Band	Maximum Scaled SAR (W/kg)	Maximum Report SAR (W/kg)
	Specific 10g	
LTE Band 41_PC2	3.379	3.379
Limit (W/kg)	4.0	4.0
Verdict	Pass	

3.3.3 Highest Simultaneous SAR

Position	Simultaneous Configuration	Simultaneous SAR (W/kg)	Limit (W/kg)	Verdict
Head (1g)	WWAN+5GWIFI+BT	1.244	1.6	Pass
Body (1g)	WWAN+5GWIFI+BT	1.394	1.6	Pass

3.4 Test Uncertainty

According to KDB 865664 D01, When the highest measured 1 g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis is not required in SAR reports submitted for equipment approval.

The maximum 1 g SAR for the EUT in this report is 1.277 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

The maximum 10 g SAR for the EUT in this report is 3.379 W/kg, which is lower than 3.75 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$\text{SAR} = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

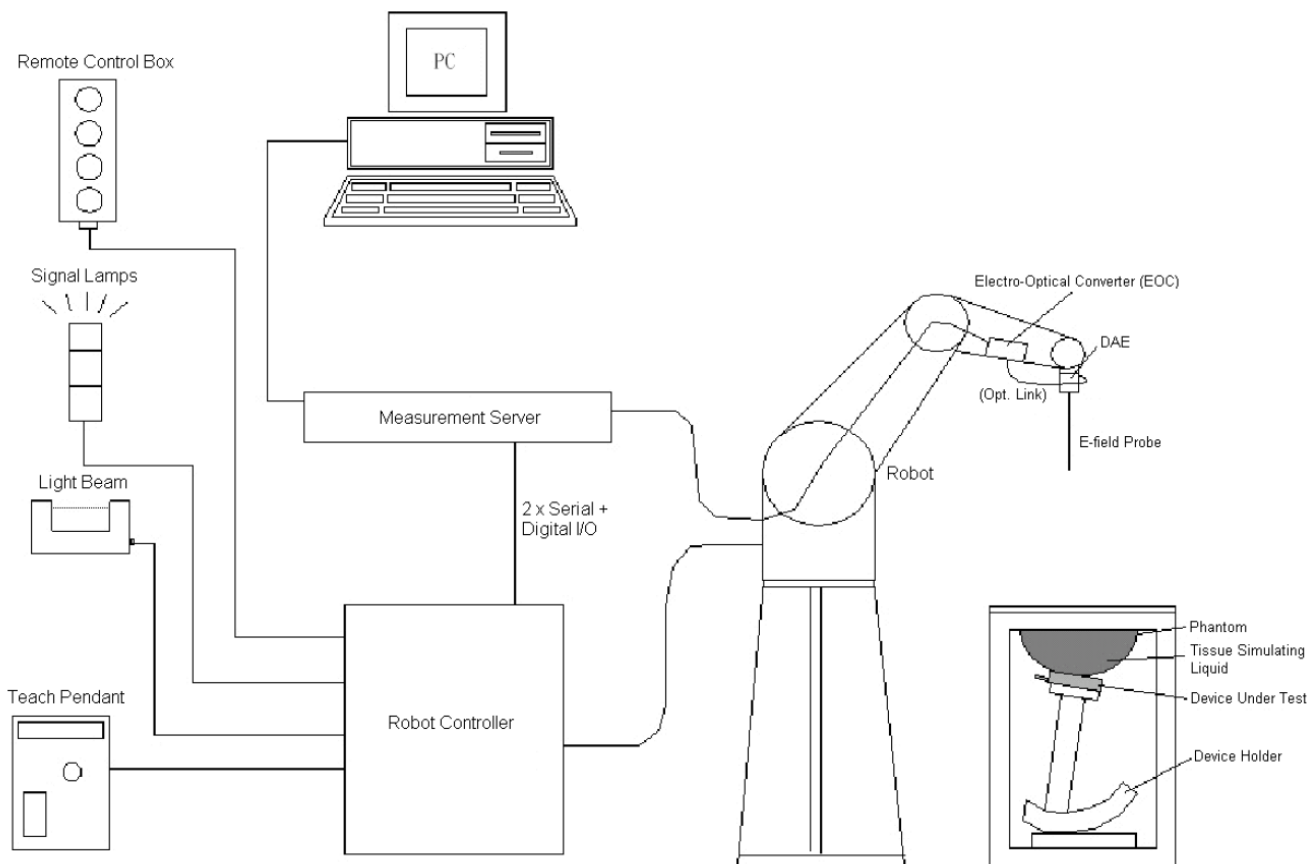
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram



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

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. 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.
3. A data acquisition electronic (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.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY measurement server.
6. The DASY measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

4.2.2 Robot

The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:

Photo for DASY5



- High precision
(repeatability ± 0.02 mm)
- High reliability
(industrial design)
- Low maintenance costs
(virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements
(brush less synchron motors; no stepper motors)
- Low ELF interference
(motor control _elds shielded via the closed metallic c
onstruction shields)

Photo for DASY4



- High precision
(repeatability ± 0.02 mm)
- High reliability
(industrial design)
- Low maintenance costs
(virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements
(brush less synchron motors; no stepper motors)
- Low ELF interference
(motor control _elds shielded via the closed metallic c
onstruction shields)

4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4 with following specifications is used.

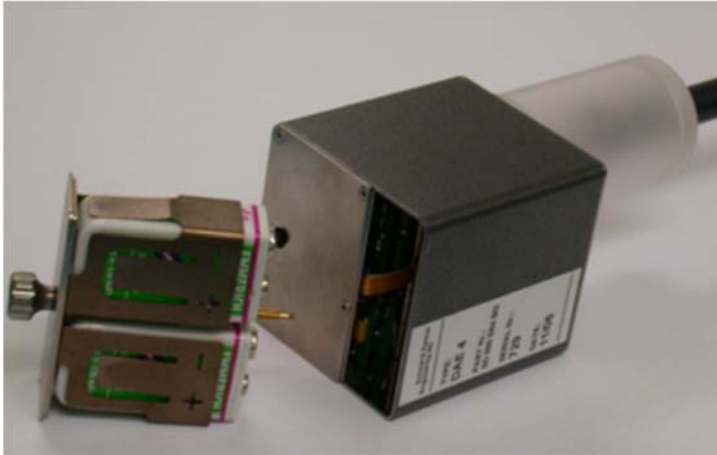
Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.2 dB in HSL (rotation around probe axis) ; ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)

E-Field Probe Calibration Process

Probe calibration is realized, in compliance with CENELEC EN 62209-1/-2 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 62209-1/2 annexe technique using reference guide at the five frequencies.

4.2.4 Data Acquisition Electronics

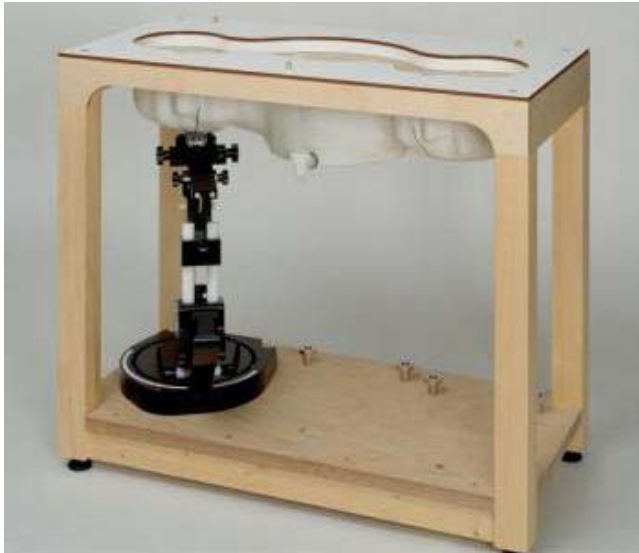
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.



- Input Impedance: 200M Ω m
- The Inputs: Symmetrical and Floating
- Commom Mode Rejection: Above 80dB

4.2.5 Phantoms

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



- Left hand
- Right hand
- Flat phantom

Photo of Phantom



Serial Number	Material	Length	Height
SN 1857 SAM1	Vinylester, glass fiber reinforced	1000	500
SN 1859 SAM2	Vinylester, glass fiber reinforced	1000	500
SN 1392 SAM3	Vinylester, glass fiber reinforced	1000	500
SN 1402 SAM4	Vinylester, glass fiber reinforced	1000	500

4.2.6 Device Holder

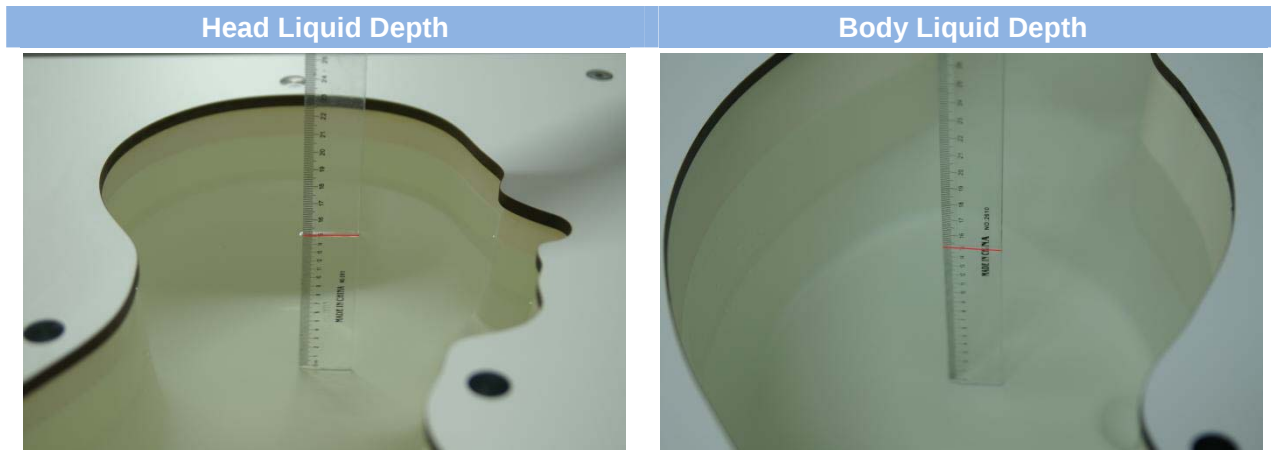
The DASY device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA's only. If necessary an additional support of polystyrene material is used. Larger DUT's (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.



The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1° .

4.2.7 Simulating Liquid

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.



The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ε
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.4	40.0
2450	55.0	0	0	0.1	0	44.9	1.80	39.2
2600	54.9	0	0	0.1	0	45.0	1.96	39.0
Frequency (MHz)	Water (%)	Hexyl Carbitol (%)			Triton X-100 (%)		Conductivity σ (S/m)	Permittivity ε
5200	62.52	17.24			17.24		4.66	36.0
5500	62.52	17.24			17.24		4.96	35.6
5800	62.52	17.24			17.24		5.27	35.3
Body (From instrument manufacturer)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ε
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0.1	0	31.3	1.95	52.7
2600	68.2	0	0	0.1	0	31.7	2.16	52.5
Frequency(MHz)	Water	DGBE (%)			Salt (%)		Conductivity σ (S/m)	Permittivity ε
5200	78.60	21.40			/		5.54	47.86

5500	78.60	21.40	/	5.44	
5800	78.50	21.40	0.1	6.0	48.20

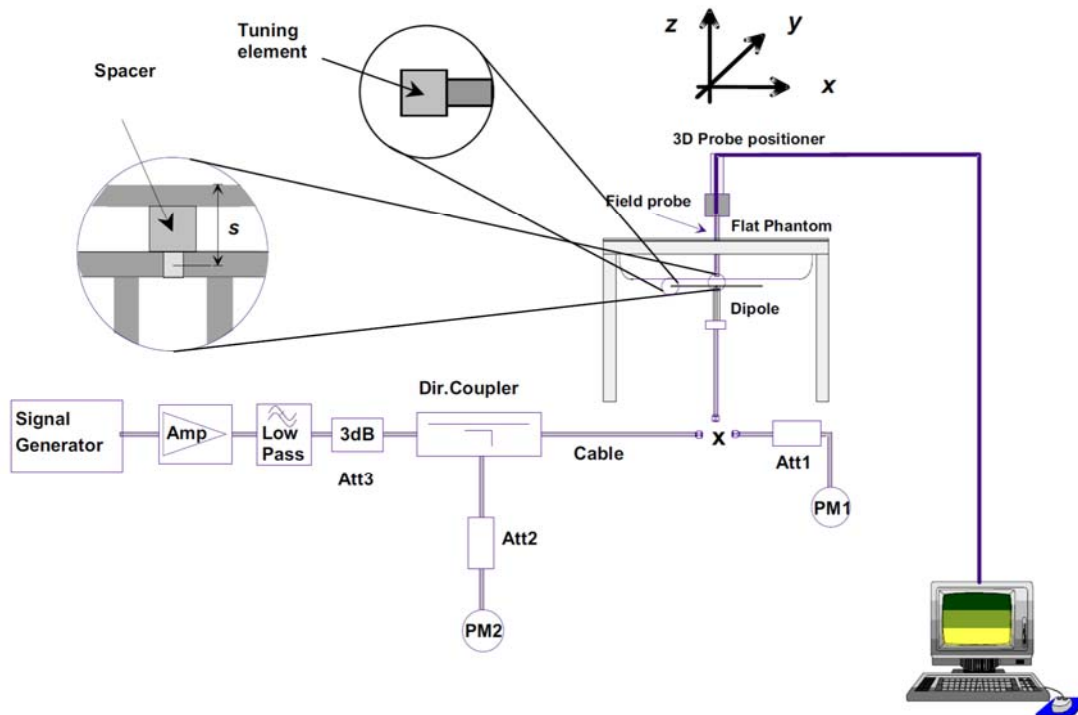
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

5.2 System Check Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



6 TEST POSITION CONFIGURATIONS

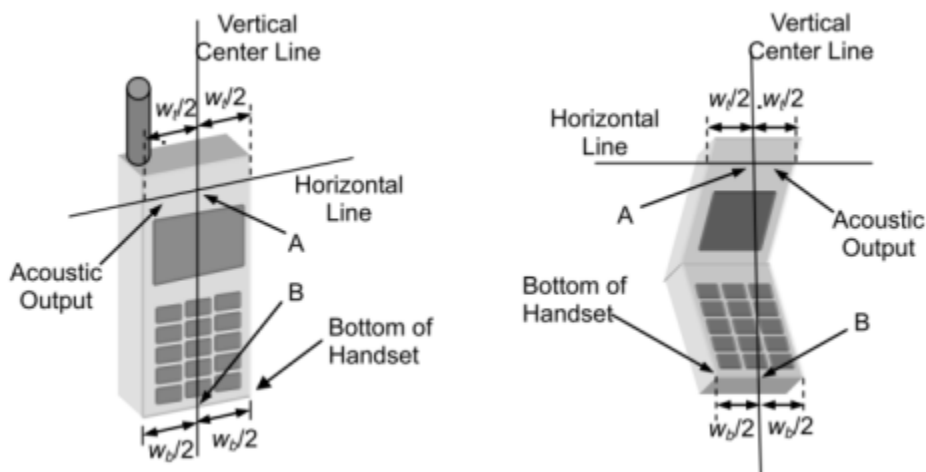
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

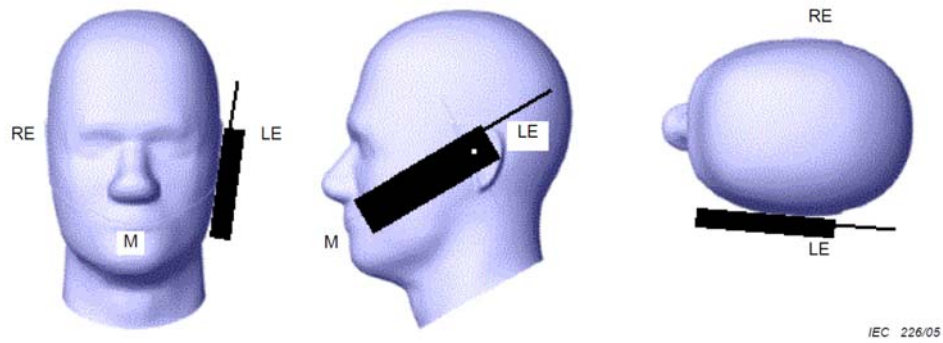
6.1.1 Two Imaginary Lines on the Handset

- The vertical center line passes through two points on the front side of the handset – the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.
 - The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical center line is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



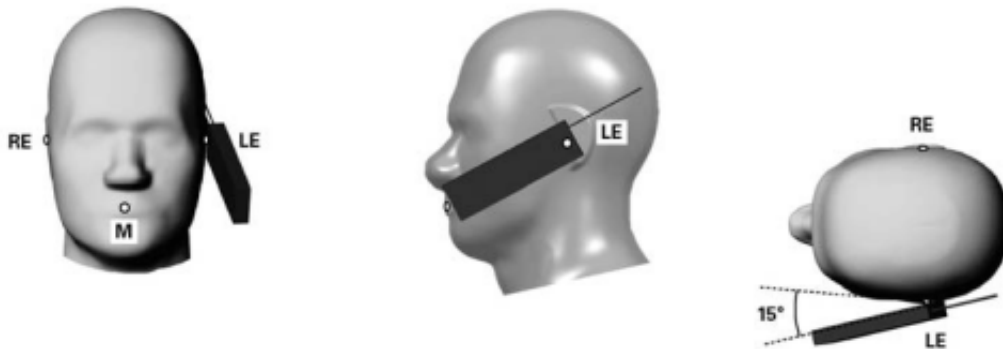
6.1.2 Cheek Position

- To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



6.1.3 Tilted Position

- To position the device in the "cheek" position described above.
- While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.

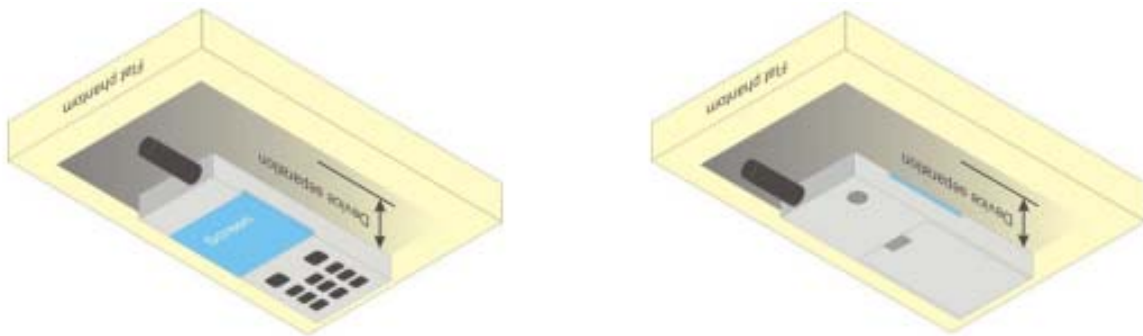


6.2 Body-worn Position Conditions

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 KDB 447498 are 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 the reported SAR for a body-worn accessory.

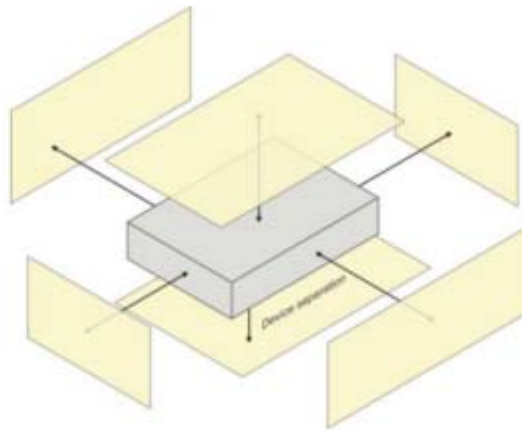
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance ≤ 5 mm to support compliance.



6.3 Hotspot Mode Exposure Position Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



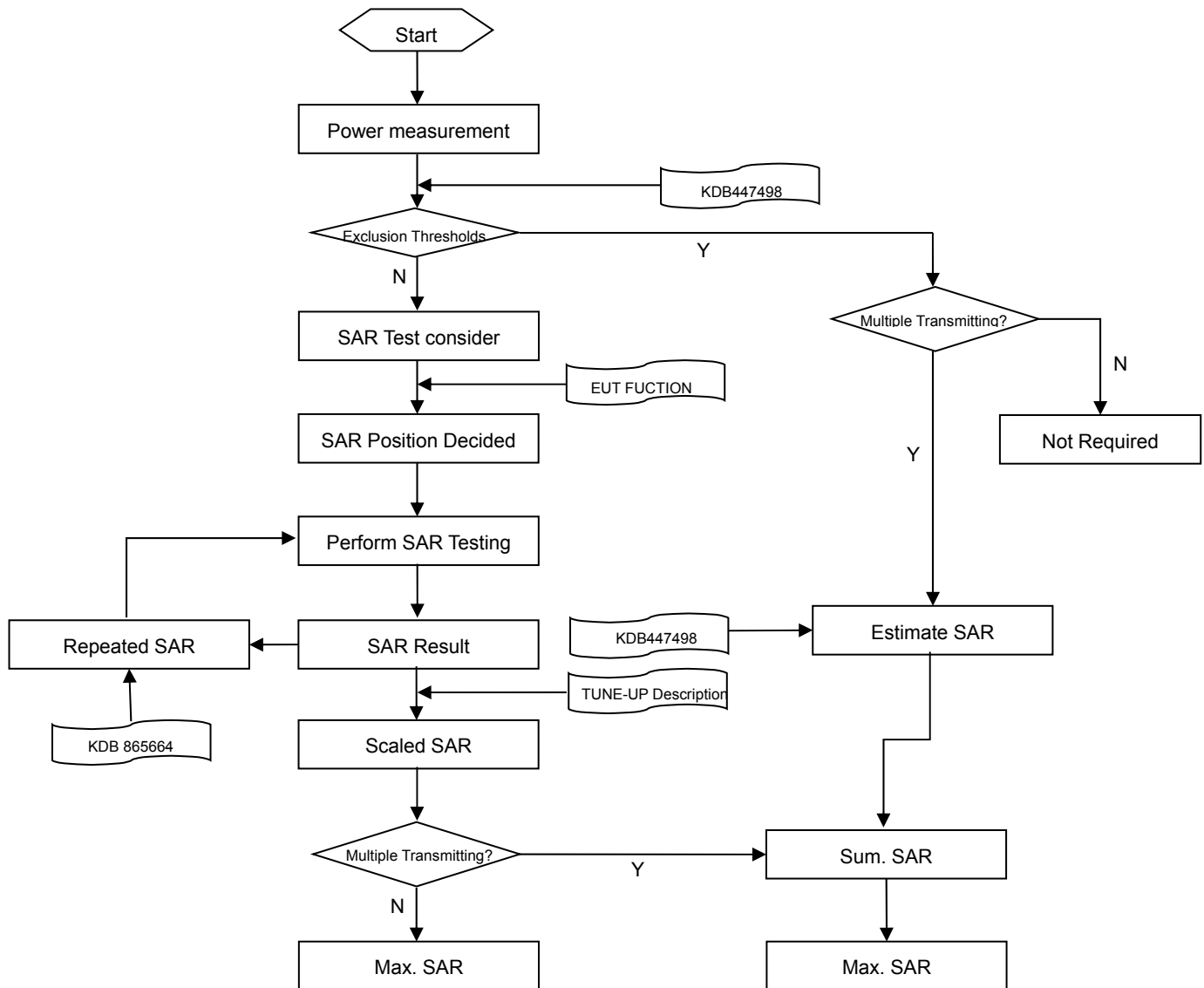
6.4 Product Specific 10g Exposure Consideration

According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

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.

			≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5±1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ 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 $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom			≤ 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		$\leq 1.5 \cdot \Delta z$ Zoom (n-1)	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3–4 GHz: ≥ 28 mm
				4–5 GHz: ≥ 25 mm
				5–6 GHz: ≥ 22 mm

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.
- * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation 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 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

7.3 Measurement Procedure

The following steps are used for each test position

- a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

8 CONDUCTED RF OUPUT POWER

Table: Summery of Receiver detection mechanism

Band	Tune up (dBm)	
	Sensor deactive (head scenario+ Body scenario)	Sensor active (Body scenario)
	Level A1	Level B1
GSM850	33.5	/
GSM1900	30.0	27.0
WCDMA 2	24.5	19.5
WCDMA 4	25.0	22.0
WCDMA 5	25.0	/
Band 12	25.0	/
Band 25	25.0	20.5
Band 26	25.0	24.0
Band 41_PC2	28.0	/
Band 41_PC3	25.0	/
Band 66	25.0	22.0
Band 71	25.0	/

8.1 GSM

Table 8.1-1: The conducted power measurement results-Power Level A1

GSM 850								
GSM850 Band	Burst Average Power(dBm)			Tune-up Limit (dBm)	Frame-Averaged power (dBm)			Tune-up Limit (dBm)
Channel	128	190	251		128	190	251	
GSM (GMSK, 1-Slot)	32.95	32.94	32.83	33.50	23.76	23.75	23.64	24.31
GPRS (GMSK, 1-Slot)	32.92	32.91	32.79	33.50	23.73	23.72	23.60	24.31
GPRS (GMSK, 2-Slots)	31.99	31.96	31.83	32.50	25.86	25.83	25.70	26.37
GPRS (GMSK, 3-Slots)	30.02	29.96	29.84	30.50	25.60	25.54	25.42	26.08
GPRS (GMSK, 4-Slots)	28.97	28.91	28.78	29.50	25.79	25.73	25.60	26.32
EGPRS (8PSK, 1-Slot)	25.52	25.06	25.18	27.00	16.33	15.87	15.99	17.81
EGPRS (8PSK, 2-Slots)	24.51	24.13	24.16	26.00	18.38	18.00	18.03	19.87
EGPRS (8PSK, 3-Slots)	22.52	22.53	22.56	24.50	18.10	18.11	18.14	20.08
EGPRS (8PSK, 4-Slots)	21.37	21.08	21.11	22.50	18.19	17.90	17.93	19.32
GSM 1900								
GSM1900 Band	Burst Average Power(dBm)			Tune-up Limit (dBm)	Frame-Averaged power(dBm)			Tune-up Limit (dBm)
Channel	512	661	810		512	661	810	
GSM (GMSK, 1-Slot)	29.27	29.47	29.39	30.00	20.08	20.28	20.20	20.81
GPRS (GMSK, 1-Slot)	29.30	29.49	29.40	30.00	20.11	20.30	20.21	20.81
GPRS (GMSK, 2-Slots)	28.30	28.52	28.44	29.00	22.17	22.39	22.31	22.87
GPRS (GMSK, 3-Slots)	26.82	26.93	26.96	27.00	22.40	22.51	22.54	22.58
GPRS (GMSK, 4-Slots)	25.74	25.95	25.89	26.00	22.56	22.77	22.71	22.82
EGPRS (8PSK, 1-Slot)	24.87	24.77	24.75	25.50	15.68	15.58	15.56	16.31
EGPRS (8PSK, 2-Slots)	23.78	23.86	23.87	24.50	17.65	17.73	17.74	18.37
EGPRS (8PSK, 3-Slots)	21.82	21.82	21.85	22.50	17.40	17.40	17.43	18.08
EGPRS (8PSK, 4-Slots)	20.69	20.73	20.75	21.00	17.51	17.55	17.57	17.82

Note ¹: SAR testing was performed on the maximum frame-averaged power mode.

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

Frame-averaged power = Burst averaged power (1 Tx Slot) – 9.19 dB

Frame-averaged power = Burst averaged power (2 Tx Slots) – 6.13 dB

Frame-averaged power = Burst averaged power (3 Tx Slots) - 4.42dB

Frame-averaged power = Burst averaged power (4 Tx Slots) – 3.18 dB

Table 8.1-2: The conducted power measurement results-Power Level B1

GSM 1900								
GSM1900 Band	Burst Average Power(dBm)			Tune-up	Frame-Averaged power(dBm)			Tune-up
Channel	512	661	810	Limit (dBm)	512	661	810	Limit (dBm)
GSM (GMSK, 1-Slot)	26.32	26.48	26.45	27.00	17.13	17.29	17.26	17.81
GPRS (GMSK, 1-Slot)	26.31	26.47	26.45	27.00	17.12	17.28	17.26	17.81
GPRS (GMSK, 2-Slots)	25.21	25.38	25.34	26.00	19.08	19.25	19.21	19.87
GPRS (GMSK, 3-Slots)	23.50	23.67	23.67	24.00	19.08	19.25	19.25	19.58
GPRS (GMSK, 4-Slots)	22.55	22.76	22.73	23.00	19.37	19.58	19.55	19.82
EGPRS (8PSK, 1-Slot)	22.72	22.87	22.83	23.50	13.53	13.68	13.64	14.31
EGPRS (8PSK, 2-Slots)	21.69	21.84	21.82	22.50	15.56	15.71	15.69	16.37
EGPRS (8PSK, 3-Slots)	19.76	19.71	19.76	20.50	15.34	15.29	15.34	16.08
EGPRS (8PSK, 4-Slots)	18.64	18.72	18.74	20.00	15.46	15.54	15.56	16.82

Note ¹: SAR testing was performed on the maximum frame-averaged power mode.

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

Frame-averaged power = Burst averaged power (1 Tx Slot) – 9.19 dB

Frame-averaged power = Burst averaged power (2 Tx Slots) – 6.13 dB

Frame-averaged power = Burst averaged power (3 Tx Slots) - 4.42dB

Frame-averaged power = Burst averaged power (4 Tx Slots) – 3.18 dB

8.2 WCDMA

Table 8.2-1: The conducted Power for WCDMA B5-Power Level A1

WCDMA	Band 2				Band 4			
Channel	9262	9400	9538	Tune-up Limit (dBm)	1312	1412	1513	Tune-up Limit (dBm)
RMC 12.2Kbps	23.22	23.31	23.35	24.50	23.88	23.91	23.87	25.00
HSDPA Subtest-1	21.39	21.47	21.50	22.00	21.44	21.45	21.49	22.00
HSDPA Subtest-2	21.37	21.38	21.48	22.00	21.39	21.39	21.44	22.00
HSDPA Subtest-3	20.86	20.90	20.99	22.00	20.96	20.90	20.98	22.00
HSDPA Subtest-4	20.82	20.87	20.96	22.00	20.93	20.87	20.97	22.00
HSUPA Subtest-1	20.36	20.45	20.51	21.50	20.42	20.44	20.47	21.50
HSUPA Subtest-2	20.35	20.44	20.51	21.50	20.44	20.45	20.50	21.50
HSUPA Subtest-3	21.41	21.48	21.51	22.00	21.43	21.48	21.50	22.00
HSUPA Subtest-4	19.86	19.99	20.05	21.00	19.93	19.98	20.01	21.00
HSUPA Subtest-5	21.36	21.47	21.55	22.00	21.41	21.43	21.47	22.00
WCDMA	Band 5				-			
Channel	4132	4182	4233	Tune-up Limit (dBm)	-	-	-	-
RMC 12.2Kbps	23.75	23.76	23.78	25.00				
HSDPA Subtest-1	21.34	21.31	21.35	22.00	-	-	-	-
HSDPA Subtest-2	21.36	21.27	21.29	22.00	-	-	-	-
HSDPA Subtest-3	20.86	20.77	20.80	22.00	-	-	-	-
HSDPA Subtest-4	20.85	20.75	20.80	22.00	-	-	-	-
HSUPA Subtest-1	20.88	20.85	20.36	21.50	-	-	-	-
HSUPA Subtest-2	20.39	20.34	20.37	21.50	-	-	-	-
HSUPA Subtest-3	21.37	21.37	21.39	22.00	-	-	-	-
HSUPA Subtest-4	19.87	19.87	19.89	21.00	-	-	-	-
HSUPA Subtest-5	21.36	21.33	21.36	22.00	-	-	-	-

Table 8.2-2: The conducted Power for WCDMA B2/B4-Power Level B1

WCDMA	Band 2				Band 4			
Channel	9262	9400	9538	Tune-up Limit (dBm)	1312	1412	1513	Tune-up Limit (dBm)
RMC 12.2Kbps	19.31	19.40	19.34	19.50	21.91	21.90	21.97	22.00
HSDPA Subtest-1	18.31	18.42	18.35	19.00	21.01	20.87	20.96	21.50
HSDPA Subtest-2	18.24	18.35	18.34	19.00	20.98	20.82	20.92	21.50
HSDPA Subtest-3	17.78	17.91	17.82	19.00	20.46	20.34	20.41	21.50
HSDPA Subtest-4	17.81	17.87	17.82	19.00	20.47	20.31	20.43	21.50
HSUPA Subtest-1	16.31	16.43	16.33	18.00	18.77	18.64	18.68	20.50
HSUPA Subtest-2	16.57	16.65	16.56	18.00	19.02	18.88	18.95	20.50
HSUPA Subtest-3	17.57	17.64	17.55	19.00	20.03	19.88	19.92	21.50
HSUPA Subtest-4	16.10	16.16	16.09	17.50	18.54	18.41	18.44	20.00
HSUPA Subtest-5	17.53	17.63	17.53	19.00	20.03	19.86	19.89	21.50

8.3 LTE

FDD LTE Band 12 Power Level A1

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23060	23095	23130		23060	23095	23130	
10 MHz	1 (RB_Pos:0)	24.58	24.57	24.67	25.00	23.45	23.86	23.53	24.00
	1 (RB_Pos:25)	24.71	24.78	24.77	25.00	23.58	23.83	23.76	24.00
	1 (RB_Pos:49)	24.83	24.82	24.86	25.00	23.45	23.98	23.48	24.00
	25 (RB_Pos:0)	23.63	23.67	23.66	24.00	22.64	22.67	22.78	23.00
	25 (RB_Pos:12)	23.61	23.69	23.67	24.00	22.61	22.69	22.77	23.00
	25 (RB_Pos:25)	23.57	23.67	23.65	24.00	22.62	22.71	22.71	23.00
	50 (RB_Pos:0)	23.61	23.70	23.66	24.00	22.60	22.68	22.69	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.34	22.72	22.51	23.00	-	-	-	-
	1 (RB_Pos:25)	22.55	22.72	22.72	23.00	-	-	-	-
	1 (RB_Pos:49)	22.38	22.89	22.45	23.00	-	-	-	-
	25 (RB_Pos:0)	21.52	21.54	21.63	22.00	-	-	-	-
	25 (RB_Pos:12)	21.56	21.54	21.65	22.00	-	-	-	-
	25 (RB_Pos:25)	21.50	21.55	21.63	22.00	-	-	-	-
	50 (RB_Pos:0)	21.52	21.67	21.64	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23035	23095	23155		23035	23095	23155	
5 MHz	1 (RB_Pos:0)	24.51	24.49	24.56	25.00	23.60	23.91	23.65	24.00
	1 (RB_Pos:13)	24.62	24.65	24.77	25.00	23.71	23.88	23.77	24.00
	1 (RB_Pos:24)	24.47	24.57	24.68	25.00	23.57	24.00	23.55	24.00
	12 (RB_Pos:0)	23.53	23.67	23.68	24.00	22.59	22.78	22.71	23.00
	12 (RB_Pos:6)	23.64	23.69	23.73	24.00	22.67	22.83	22.77	23.00
	12 (RB_Pos:13)	23.58	23.61	23.61	24.00	22.62	22.78	22.63	23.00
	25 (RB_Pos:0)	23.52	23.64	23.66	24.00	22.59	22.72	22.63	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.49	22.77	22.63	23.00	-	-	-	-
	1 (RB_Pos:13)	22.68	22.77	22.73	23.00	-	-	-	-
	1 (RB_Pos:24)	22.50	22.91	22.52	23.00	-	-	-	-
	12 (RB_Pos:0)	21.47	21.65	21.56	22.00	-	-	-	-
	12 (RB_Pos:6)	21.62	21.68	21.65	22.00	-	-	-	-
	12 (RB_Pos:13)	21.50	21.62	21.55	22.00	-	-	-	-
	25 (RB_Pos:0)	21.51	21.71	21.58	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23025	23095	23165		23025	23095	23165	

3 MHz	1 (RB_Pos:0)	24.62	24.67	24.71	25.00	23.46	23.87	23.63	24.00
	1 (RB_Pos:8)	24.60	24.63	24.81	25.00	23.44	23.92	23.62	24.00
	1 (RB_Pos:14)	24.56	24.62	24.83	25.00	23.41	23.91	23.51	24.00
	8 (RB_Pos:0)	23.67	23.65	23.74	24.00	22.71	22.71	22.76	23.00
	8 (RB_Pos:3)	23.64	23.76	23.78	24.00	22.74	22.76	22.76	23.00
	8 (RB_Pos:7)	23.60	23.67	23.76	24.00	22.70	22.67	22.70	23.00
	15 (RB_Pos:0)	23.61	23.61	23.73	24.00	22.61	22.66	22.62	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.35	22.73	22.61	23.00	-	-	-	-
	1 (RB_Pos:8)	22.41	22.81	22.58	23.00	-	-	-	-
	1 (RB_Pos:14)	22.34	22.82	22.48	23.00	-	-	-	-
	8 (RB_Pos:0)	21.59	21.58	21.61	23.00	-	-	-	-
	8 (RB_Pos:3)	21.69	21.61	21.64	23.00	-	-	-	-
	8 (RB_Pos:7)	21.58	21.51	21.62	23.00	-	-	-	-
	15 (RB_Pos:0)	21.53	21.65	21.57	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23017	23095	23173		23017	23095	23173	
1.4 MHz	1 (RB_Pos:0)	24.53	24.57	24.73	25.00	23.55	23.82	23.53	24.00
	1 (RB_Pos:3)	24.72	24.71	24.85	25.00	23.70	23.96	23.65	24.00
	1 (RB_Pos:5)	24.52	24.57	24.79	25.00	23.55	23.87	23.45	24.00
	3 (RB_Pos:0)	24.54	24.61	24.66	25.00	23.55	23.71	23.74	24.00
	3 (RB_Pos:1)	24.60	24.64	24.77	25.00	23.57	23.73	23.74	24.00
	3 (RB_Pos:3)	24.58	24.62	24.63	25.00	23.58	23.76	23.66	24.00
	6 (RB_Pos:0)	23.61	23.62	23.82	24.00	22.69	22.51	22.79	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.44	22.68	22.51	23.00	-	-	-	-
	1 (RB_Pos:3)	22.67	22.85	22.61	23.00	-	-	-	-
	1 (RB_Pos:5)	22.48	22.78	22.42	23.00	-	-	-	-
	3 (RB_Pos:0)	22.43	22.58	22.59	23.00	-	-	-	-
	3 (RB_Pos:1)	22.52	22.58	22.62	23.00	-	-	-	-
	3 (RB_Pos:3)	22.46	22.60	22.58	23.00	-	-	-	-
	6 (RB_Pos:0)	21.61	21.50	21.74	22.00	-	-	-	-

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Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26140	26340	26590		26140	26340	26590	
20 MHz	1 (RB_Pos:0)	24.62	24.68	24.50	25.00	23.67	23.81	23.97	24.00
	1 (RB_Pos:50)	24.87	24.97	24.78	25.00	23.84	23.83	23.88	24.00
	1 (RB_Pos:99)	24.55	24.55	24.51	25.00	23.75	23.96	23.91	24.00
	50 (RB_Pos:0)	23.69	23.88	23.74	24.00	22.75	22.89	22.72	23.00
	50 (RB_Pos:25)	23.76	23.84	23.76	24.00	22.82	22.86	22.73	23.00
	50 (RB_Pos:50)	23.77	23.76	23.63	24.00	22.81	22.79	22.59	23.00
	100 (RB_Pos:0)	23.75	23.81	23.70	24.00	22.78	22.83	22.71	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.56	22.67	22.95	23.00	-	-	-	-
	1 (RB_Pos:50)	22.81	22.72	22.84	23.00	-	-	-	-
	1 (RB_Pos:99)	22.68	22.87	22.88	23.00	-	-	-	-
	50 (RB_Pos:0)	21.63	21.76	21.57	22.00	-	-	-	-
	50 (RB_Pos:25)	21.77	21.71	21.61	22.00	-	-	-	-
	50 (RB_Pos:50)	21.69	21.63	21.51	22.00	-	-	-	-
	100 (RB_Pos:0)	21.70	21.82	21.66	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26115	26340	26615		26115	26340	26615	
15 MHz	1 (RB_Pos:0)	24.66	24.69	24.60	25.00	23.61	23.58	23.76	24.00
	1 (RB_Pos:38)	24.73	24.73	24.73	25.00	23.71	23.63	23.75	24.00
	1 (RB_Pos:74)	24.62	24.56	24.60	25.00	23.58	23.95	23.90	24.00
	36 (RB_Pos:0)	23.86	23.88	23.86	24.00	22.79	22.84	22.79	23.00
	36 (RB_Pos:20)	23.88	23.92	23.88	24.00	22.80	22.93	22.75	23.00
	36 (RB_Pos:39)	23.86	23.87	23.82	24.00	22.79	22.87	22.70	23.00
	75 (RB_Pos:0)	23.83	23.92	23.88	24.00	22.81	22.86	22.84	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.50	22.44	22.74	23.00	-	-	-	-
	1 (RB_Pos:38)	22.68	22.52	22.71	23.00	-	-	-	-
	1 (RB_Pos:74)	22.51	22.86	22.87	23.00	-	-	-	-
	36 (RB_Pos:0)	21.67	21.71	21.64	22.00	-	-	-	-
	36 (RB_Pos:20)	21.75	21.78	21.63	22.00	-	-	-	-
	36 (RB_Pos:39)	21.67	21.71	21.62	22.00	-	-	-	-
	75 (RB_Pos:0)	21.73	21.85	21.79	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26090	26340	26640		26090	26340	26640	
10 MHz	1 (RB_Pos:0)	24.69	24.71	24.69	25.00	23.66	23.67	23.72	24.00
	1 (RB_Pos:25)	24.82	24.80	24.86	25.00	23.68	23.77	23.80	24.00

	1 (RB_Pos:49)	24.66	24.68	24.70	25.00	23.61	23.64	23.63	24.00
	25 (RB_Pos:0)	23.79	23.80	23.88	24.00	22.78	22.86	22.94	23.00
	25 (RB_Pos:12)	23.77	23.80	23.80	24.00	22.82	22.86	22.86	23.00
	25 (RB_Pos:25)	23.83	23.81	23.76	24.00	22.86	22.85	22.83	23.00
	50 (RB_Pos:0)	23.80	23.81	23.82	24.00	22.80	22.86	22.85	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.55	22.53	22.70	23.00	-	-	-	-
	1 (RB_Pos:25)	22.65	22.66	22.76	23.00	-	-	-	-
	1 (RB_Pos:49)	22.54	22.55	22.60	23.00	-	-	-	-
	25 (RB_Pos:0)	21.66	21.73	21.79	22.00	-	-	-	-
	25 (RB_Pos:12)	21.77	21.71	21.74	22.00	-	-	-	-
	25 (RB_Pos:25)	21.74	21.69	21.75	22.00	-	-	-	-
	50 (RB_Pos:0)	21.72	21.85	21.80	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26065	26340	26665		26065	26340	26665	
5 MHz	1 (RB_Pos:0)	24.64	24.61	24.64	25.00	23.83	23.86	23.74	24.00
	1 (RB_Pos:13)	24.80	24.75	24.78	25.00	23.94	23.88	23.86	24.00
	1 (RB_Pos:24)	24.58	24.61	24.65	25.00	23.81	23.84	23.70	24.00
	12 (RB_Pos:0)	23.75	23.75	23.79	24.00	22.83	22.93	22.87	23.00
	12 (RB_Pos:6)	23.85	23.82	23.84	24.00	22.91	22.95	22.86	23.00
	12 (RB_Pos:13)	23.82	23.77	23.77	24.00	22.85	22.89	22.78	23.00
	25 (RB_Pos:0)	23.77	23.79	23.78	24.00	22.81	22.89	22.70	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.72	22.72	22.72	23.00	-	-	-	-
	1 (RB_Pos:13)	22.91	22.77	22.82	23.00	-	-	-	-
	1 (RB_Pos:24)	22.74	22.75	22.67	23.00	-	-	-	-
	12 (RB_Pos:0)	21.71	21.80	21.72	22.00	-	-	-	-
	12 (RB_Pos:6)	21.86	21.80	21.74	22.00	-	-	-	-
	12 (RB_Pos:13)	21.73	21.73	21.70	22.00	-	-	-	-
	25 (RB_Pos:0)	21.73	21.88	21.65	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26055	26340	26675		26055	26340	26675	
3 MHz	1 (RB_Pos:0)	24.78	24.73	24.78	25.00	23.70	23.71	23.79	24.00
	1 (RB_Pos:8)	24.73	24.72	24.80	25.00	23.70	23.75	23.72	24.00
	1 (RB_Pos:14)	24.72	24.72	24.78	25.00	23.63	23.83	23.72	24.00
	8 (RB_Pos:0)	23.85	23.81	23.80	24.00	22.92	22.87	22.84	23.00
	8 (RB_Pos:3)	23.88	23.89	23.87	24.00	22.99	22.90	22.88	23.00
	8 (RB_Pos:7)	23.83	23.81	23.78	24.00	22.92	22.83	22.81	23.00
	15 (RB_Pos:0)	23.79	23.76	23.80	24.00	22.86	22.83	22.75	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.59	22.57	22.77	23.00	-	-	-	-
	1 (RB_Pos:8)	22.67	22.64	22.68	23.00	-	-	-	-

	1 (RB_Pos:14)	22.56	22.74	22.69	23.00	-	-	-	-
	8 (RB_Pos:0)	21.80	21.74	21.69	23.00	-	-	-	-
	8 (RB_Pos:3)	21.94	21.75	21.76	23.00	-	-	-	-
	8 (RB_Pos:7)	21.80	21.67	21.73	23.00	-	-	-	-
	15 (RB_Pos:0)	21.78	21.82	21.70	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26047	26340	26683		26047	26340	26683	
1.4 MHz	1 (RB_Pos:0)	24.67	24.66	24.69	25.00	23.82	23.74	23.67	24.00
	1 (RB_Pos:3)	24.73	24.86	24.87	25.00	23.99	23.67	23.83	24.00
	1 (RB_Pos:5)	24.67	24.64	24.72	25.00	23.78	23.83	23.71	24.00
	3 (RB_Pos:0)	24.76	24.68	24.73	25.00	23.81	23.93	23.92	24.00
	3 (RB_Pos:1)	24.77	24.73	24.79	25.00	23.82	23.92	23.94	24.00
	3 (RB_Pos:3)	24.71	24.71	24.78	25.00	23.83	23.96	23.91	24.00
	6 (RB_Pos:0)	23.83	23.76	23.79	24.00	22.95	22.66	22.91	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.71	22.60	22.65	23.00	-	-	-	-
	1 (RB_Pos:3)	22.96	22.56	22.79	23.00	-	-	-	-
	1 (RB_Pos:5)	22.71	22.74	22.68	23.00	-	-	-	-
	3 (RB_Pos:0)	22.69	22.80	22.77	23.00	-	-	-	-
	3 (RB_Pos:1)	22.77	22.77	22.82	23.00	-	-	-	-
	3 (RB_Pos:3)	22.71	22.80	22.83	23.00	-	-	-	-
	6 (RB_Pos:0)	21.87	21.65	21.86	22.00	-	-	-	-

FDD LTE Band 25 Power Level B1									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26140	26340	26590		26140	26340	26590	
20 MHz	1 (RB_Pos:0)	20.13	20.30	20.15	20.50	19.38	19.39	19.36	19.50
	1 (RB_Pos:50)	20.32	20.46	20.36	20.50	19.92	20.10	19.76	20.50
	1 (RB_Pos:99)	20.11	20.17	20.06	20.50	19.63	19.70	19.47	20.50
	50 (RB_Pos:0)	19.20	19.44	19.25	19.50	18.25	18.45	18.27	19.50
	50 (RB_Pos:25)	19.29	19.38	19.27	19.50	18.34	18.42	18.21	19.50
	50 (RB_Pos:50)	19.29	19.30	19.11	19.50	18.34	18.34	18.11	19.50
	100 (RB_Pos:0)	19.25	19.38	19.19	19.50	18.33	18.37	18.18	19.50
	Channel	64QAM							
	1 (RB_Pos:0)	18.27	18.25	18.34	19.50	-	-	-	-
	1 (RB_Pos:50)	18.89	18.99	18.72	19.50	-	-	-	-
	1 (RB_Pos:99)	18.56	18.61	18.44	19.50	-	-	-	-
	50 (RB_Pos:0)	17.13	17.32	17.12	18.50	-	-	-	-
	50 (RB_Pos:25)	17.29	17.27	17.09	18.50	-	-	-	-
	50 (RB_Pos:50)	17.22	17.18	17.03	18.50	-	-	-	-
	100 (RB_Pos:0)	17.25	17.36	17.13	18.50	-	-	-	-
Bandwidth	RB Set	Power (dBm)							

(MHz)		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26115	26340	26615		26115	26340	26615	
15 MHz	1 (RB_Pos:0)	20.12	20.33	20.19	20.50	19.17	19.44	19.40	19.50
	1 (RB_Pos:38)	20.25	20.43	20.24	20.50	19.22	19.80	19.73	20.50
	1 (RB_Pos:74)	20.10	20.24	20.06	20.50	19.14	19.63	19.59	20.50
	36 (RB_Pos:0)	19.24	19.44	19.32	19.50	18.26	18.47	18.25	19.50
	36 (RB_Pos:20)	19.27	19.43	19.31	19.50	18.26	18.48	18.27	19.50
	36 (RB_Pos:39)	19.28	19.35	19.26	19.50	18.29	18.39	18.21	19.50
	75 (RB_Pos:0)	19.27	19.37	19.29	19.50	18.26	18.40	18.28	19.50
	Channel	64QAM							
	1 (RB_Pos:0)	18.06	18.30	18.38	19.50	-	-	-	-
	1 (RB_Pos:38)	18.19	18.69	18.69	19.50	-	-	-	-
	1 (RB_Pos:74)	18.07	18.54	18.56	19.50	-	-	-	-
	36 (RB_Pos:0)	17.14	17.34	17.10	18.50	-	-	-	-
	36 (RB_Pos:20)	17.21	17.33	17.15	18.50	-	-	-	-
	36 (RB_Pos:39)	17.17	17.23	17.13	18.50	-	-	-	-
	75 (RB_Pos:0)	17.18	17.39	17.23	18.50	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26090	26340	26640		26090	26340	26640	
10 MHz	1 (RB_Pos:0)	20.16	20.35	20.20	20.50	19.13	19.35	19.29	19.50
	1 (RB_Pos:25)	20.29	20.38	20.43	20.50	19.30	19.83	19.48	20.50
	1 (RB_Pos:49)	20.19	20.31	20.18	20.50	19.18	19.68	19.18	20.50
	25 (RB_Pos:0)	19.21	19.38	19.38	19.50	18.30	18.46	18.47	19.50
	25 (RB_Pos:12)	19.27	19.41	19.29	19.50	18.31	18.45	18.39	19.50
	25 (RB_Pos:25)	19.28	19.36	19.25	19.50	18.37	18.38	18.34	19.50
	50 (RB_Pos:0)	19.28	19.39	19.33	19.50	18.31	18.45	18.38	19.50
	Channel	64QAM							
	1 (RB_Pos:0)	18.02	18.21	18.27	19.50	-	-	-	-
	1 (RB_Pos:25)	18.27	18.72	18.44	19.50	-	-	-	-
	1 (RB_Pos:49)	18.11	18.59	18.15	19.50	-	-	-	-
	25 (RB_Pos:0)	17.18	17.33	17.32	18.50	-	-	-	-
	25 (RB_Pos:12)	17.26	17.30	17.27	18.50	-	-	-	-
	25 (RB_Pos:25)	17.25	17.22	17.26	18.50	-	-	-	-
	50 (RB_Pos:0)	17.23	17.44	17.33	18.50	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26065	26340	26665		26065	26340	26665	
5 MHz	1 (RB_Pos:0)	20.12	20.31	20.19	20.50	19.32	19.47	19.38	19.50
	1 (RB_Pos:13)	20.29	20.39	20.30	20.50	19.44	19.90	19.47	20.50
	1 (RB_Pos:24)	20.14	20.25	20.13	20.50	19.34	19.74	19.30	20.50
	12 (RB_Pos:0)	19.16	19.30	19.29	19.50	18.27	18.48	18.29	19.50
	12 (RB_Pos:6)	19.29	19.39	19.34	19.50	18.37	18.53	18.37	19.50

	12 (RB_Pos:13)	19.21	19.26	19.24	19.50	18.30	18.44	18.32	19.50
	25 (RB_Pos:0)	19.22	19.36	19.28	19.50	18.28	18.38	18.24	19.50
	Channel	64QAM							
	1 (RB_Pos:0)	18.21	18.33	18.36	19.50	-	-	-	-
	1 (RB_Pos:13)	18.41	18.79	18.43	19.50	-	-	-	-
	1 (RB_Pos:24)	18.27	18.65	18.27	19.50	-	-	-	-
	12 (RB_Pos:0)	17.15	17.35	17.14	18.50	-	-	-	-
	12 (RB_Pos:6)	17.32	17.38	17.25	18.50	-	-	-	-
	12 (RB_Pos:13)	17.18	17.28	17.24	18.50	-	-	-	-
	25 (RB_Pos:0)	17.20	17.37	17.19	18.50	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26055	26340	26675		26055	26340	26675	
3 MHz	1 (RB_Pos:0)	20.16	20.39	20.24	20.50	19.15	19.73	19.33	20.50
	1 (RB_Pos:8)	20.22	20.39	20.25	20.50	19.18	19.76	19.31	20.50
	1 (RB_Pos:14)	20.16	20.35	20.21	20.50	19.13	19.80	19.24	20.50
	8 (RB_Pos:0)	19.17	19.36	19.26	20.50	18.31	18.45	18.30	19.50
	8 (RB_Pos:3)	19.22	19.39	19.29	20.50	18.37	18.49	18.33	19.50
	8 (RB_Pos:7)	19.21	19.35	19.21	20.50	18.32	18.43	18.25	19.50
	15 (RB_Pos:0)	19.19	19.36	19.29	20.50	18.28	18.41	18.24	19.50
	Channel	64QAM							
	1 (RB_Pos:0)	18.04	18.59	18.31	19.50	-	-	-	-
	1 (RB_Pos:8)	18.15	18.65	18.27	19.50	-	-	-	-
	1 (RB_Pos:14)	18.06	18.71	18.21	19.50	-	-	-	-
	8 (RB_Pos:0)	17.19	17.32	17.15	18.50	-	-	-	-
	8 (RB_Pos:3)	17.32	17.34	17.21	18.50	-	-	-	-
	8 (RB_Pos:7)	17.20	17.27	17.17	18.50	-	-	-	-
	15 (RB_Pos:0)	17.20	17.40	17.19	18.50	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26047	26340	26683		26047	26340	26683	
1.4 MHz	1 (RB_Pos:0)	20.16	20.37	20.15	20.50	19.34	19.71	19.26	20.50
	1 (RB_Pos:3)	20.42	20.41	20.41	20.50	19.52	19.89	19.47	20.50
	1 (RB_Pos:5)	20.16	20.39	20.19	20.50	19.30	19.72	19.27	20.50
	3 (RB_Pos:0)	20.27	20.43	20.34	20.50	19.33	19.59	19.45	20.50
	3 (RB_Pos:1)	20.31	20.45	20.26	20.50	19.34	19.47	19.40	19.50
	3 (RB_Pos:3)	20.26	20.43	20.36	20.50	19.33	19.42	19.43	19.50
	6 (RB_Pos:0)	19.22	19.43	19.29	20.50	18.41	18.34	18.47	19.50
	Channel	64QAM							
	1 (RB_Pos:0)	18.23	18.57	18.24	19.50	-	-	-	-
	1 (RB_Pos:3)	18.49	18.78	18.43	19.50	-	-	-	-
	1 (RB_Pos:5)	18.23	18.63	18.24	19.50	-	-	-	-
	3 (RB_Pos:0)	18.21	18.46	18.30	18.50	-	-	-	-
	3 (RB_Pos:1)	18.29	18.32	18.28	18.50	-	-	-	-

	3 (RB_Pos:3)	18.21	18.26	18.35	18.50	-	-	-	-
	6 (RB_Pos:0)	17.33	17.33	17.42	18.50	-	-	-	-

FDD LTE Band 26 Power Level A1									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26765	26865	26965		26765	26865	26965	
15 MHz	1 (RB_Pos:0)	24.66	24.65	24.52	25.00	23.60	23.64	23.93	24.00
	1 (RB_Pos:38)	24.87	24.67	24.86	25.00	23.65	23.54	23.99	24.00
	1 (RB_Pos:74)	24.52	24.43	24.38	25.00	23.52	23.85	23.75	24.00
	36 (RB_Pos:0)	23.80	23.81	23.66	24.00	22.72	22.78	22.58	23.00
	36 (RB_Pos:20)	23.90	23.79	23.66	24.00	22.83	22.81	22.66	23.00
	36 (RB_Pos:39)	23.79	23.70	23.58	24.00	22.76	22.71	22.52	23.00
	75 (RB_Pos:0)	23.82	23.76	23.68	24.00	22.77	22.74	22.64	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.49	22.50	22.91	23.00	-	-	-	-
	1 (RB_Pos:38)	22.62	22.43	22.95	23.00	-	-	-	-
	1 (RB_Pos:74)	22.45	22.76	22.72	23.00	-	-	-	-
	36 (RB_Pos:0)	21.60	21.65	21.43	22.00	-	-	-	-
	36 (RB_Pos:20)	21.78	21.66	21.54	22.00	-	-	-	-
	36 (RB_Pos:39)	21.64	21.55	21.44	22.00	-	-	-	-
	75 (RB_Pos:0)	21.69	21.73	21.59	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26740	26865	26990		26740	26865	26990	
10 MHz	1 (RB_Pos:0)	24.74	24.69	24.55	25.00	23.66	23.76	23.57	24.00
	1 (RB_Pos:25)	24.84	24.80	24.73	25.00	23.80	23.80	23.74	24.00
	1 (RB_Pos:49)	24.69	24.53	24.44	25.00	23.64	23.97	23.49	24.00
	25 (RB_Pos:0)	23.72	23.77	23.68	24.00	22.73	22.81	22.79	23.00
	25 (RB_Pos:12)	23.77	23.71	23.61	24.00	22.84	22.77	22.73	23.00
	25 (RB_Pos:25)	23.78	23.71	23.55	24.00	22.81	22.77	22.64	23.00
	50 (RB_Pos:0)	23.75	23.74	23.65	24.00	22.75	22.75	22.64	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.55	22.62	22.55	23.00	-	-	-	-
	1 (RB_Pos:25)	22.77	22.69	22.70	23.00	-	-	-	-
	1 (RB_Pos:49)	22.57	22.88	22.46	23.00	-	-	-	-
	25 (RB_Pos:0)	21.61	21.68	21.64	22.00	-	-	-	-
	25 (RB_Pos:12)	21.79	21.62	21.61	22.00	-	-	-	-
	25 (RB_Pos:25)	21.69	21.61	21.56	22.00	-	-	-	-
	50 (RB_Pos:0)	21.67	21.74	21.59	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit	16QAM			Tune up limit
	Channel	26715	26865	27015		26715	26865	27015	

					(dBm)				(dBm)
5 MHz	1 (RB_Pos:0)	24.63	24.61	24.45	25.00	23.81	23.70	23.62	24.00
	1 (RB_Pos:13)	24.76	24.69	24.56	25.00	23.94	23.75	23.74	24.00
	1 (RB_Pos:24)	24.60	24.55	24.41	25.00	23.82	23.81	23.57	24.00
	12 (RB_Pos:0)	23.72	23.70	23.65	24.00	22.77	22.80	22.64	23.00
	12 (RB_Pos:6)	23.84	23.75	23.66	24.00	22.90	22.88	22.69	23.00
	12 (RB_Pos:13)	23.74	23.65	23.50	24.00	22.82	22.80	22.55	23.00
	25 (RB_Pos:0)	23.74	23.69	23.56	24.00	22.79	22.79	22.54	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.70	22.56	22.60	23.00	-	-	-	-
	1 (RB_Pos:13)	22.91	22.64	22.70	23.00	-	-	-	-
	1 (RB_Pos:24)	22.75	22.72	22.54	23.00	-	-	-	-
	12 (RB_Pos:0)	21.65	21.67	21.49	22.00	-	-	-	-
	12 (RB_Pos:6)	21.85	21.73	21.57	22.00	-	-	-	-
	12 (RB_Pos:13)	21.70	21.64	21.47	22.00	-	-	-	-
	25 (RB_Pos:0)	21.71	21.78	21.49	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26705	26865	27025		26705	26865	27025	
3 MHz	1 (RB_Pos:0)	24.80	24.64	24.57	25.00	23.67	23.72	23.62	24.00
	1 (RB_Pos:8)	24.70	24.69	24.54	25.00	23.66	23.65	23.59	24.00
	1 (RB_Pos:14)	24.68	24.62	24.51	25.00	23.63	23.64	23.56	24.00
	8 (RB_Pos:0)	23.84	23.74	23.60	24.00	22.85	22.85	22.63	23.00
	8 (RB_Pos:3)	23.85	23.76	23.64	24.00	22.95	22.82	22.66	23.00
	8 (RB_Pos:7)	23.78	23.74	23.59	24.00	22.89	22.78	22.62	23.00
	15 (RB_Pos:0)	23.78	23.74	23.60	24.00	22.80	22.76	22.59	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.56	22.58	22.60	23.00	-	-	-	-
	1 (RB_Pos:8)	22.63	22.54	22.55	23.00	-	-	-	-
	1 (RB_Pos:14)	22.56	22.55	22.53	23.00	-	-	-	-
	8 (RB_Pos:0)	21.73	21.72	21.48	23.00	-	-	-	-
	8 (RB_Pos:3)	21.90	21.67	21.54	23.00	-	-	-	-
	8 (RB_Pos:7)	21.77	21.62	21.54	23.00	-	-	-	-
	15 (RB_Pos:0)	21.72	21.75	21.54	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26697	26865	27033		26697	26865	27033	
1.4 MHz	1 (RB_Pos:0)	24.67	24.61	24.46	25.00	23.74	23.81	23.54	24.00
	1 (RB_Pos:3)	24.84	24.80	24.66	25.00	23.93	23.87	23.70	24.00
	1 (RB_Pos:5)	24.66	24.61	24.44	25.00	23.73	23.71	23.52	24.00
	3 (RB_Pos:0)	24.78	24.72	24.54	25.00	23.74	23.91	23.71	24.00
	3 (RB_Pos:1)	24.78	24.72	24.60	25.00	23.78	23.87	23.79	24.00
	3 (RB_Pos:3)	24.74	24.63	24.57	25.00	23.72	23.89	23.73	24.00
	6 (RB_Pos:0)	23.79	23.76	23.58	24.00	22.88	22.59	22.78	23.00

	Channel	64QAM							
	1 (RB_Pos:0)	22.63	22.67	22.52	23.00	-	-	-	-
	1 (RB_Pos:3)	22.90	22.76	22.66	23.00	-	-	-	-
	1 (RB_Pos:5)	22.66	22.62	22.49	23.00	-	-	-	-
	3 (RB_Pos:0)	22.62	22.78	22.56	23.00	-	-	-	-
	3 (RB_Pos:1)	22.73	22.72	22.67	23.00	-	-	-	-
	3 (RB_Pos:3)	22.60	22.73	22.65	23.00	-	-	-	-
	6 (RB_Pos:0)	21.80	21.58	21.73	22.00	-	-	-	-

FDD LTE Band 26 Power Level B1									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26765	26865	26965		26765	26865	26965	
15 MHz	1 (RB_Pos:0)	23.29	23.28	23.20	24.00	22.21	22.63	22.64	23.00
	1 (RB_Pos:38)	23.34	23.35	23.24	24.00	22.29	22.70	22.71	23.00
	1 (RB_Pos:74)	23.23	23.19	23.15	24.00	22.16	22.52	22.58	23.00
	36 (RB_Pos:0)	22.38	22.33	22.27	23.00	21.29	21.37	21.30	22.00
	36 (RB_Pos:20)	22.42	22.40	22.33	23.00	21.41	21.44	21.31	22.00
	36 (RB_Pos:39)	22.37	22.34	22.26	23.00	21.30	21.33	21.22	22.00
	75 (RB_Pos:0)	22.38	22.35	22.30	23.00	21.38	21.35	21.25	22.00
	Channel	64QAM							
	1 (RB_Pos:0)	21.10	21.49	21.62	22.00	-	-	-	-
	1 (RB_Pos:38)	21.26	21.59	21.67	22.00	-	-	-	-
	1 (RB_Pos:74)	21.09	21.43	21.55	22.00	-	-	-	-
	36 (RB_Pos:0)	20.17	20.24	20.15	22.00	-	-	-	-
	36 (RB_Pos:20)	20.36	20.29	20.19	22.00	-	-	-	-
	36 (RB_Pos:39)	20.18	20.17	20.14	22.00	-	-	-	-
	75 (RB_Pos:0)	20.30	20.34	20.20	21.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26740	26865	26990		26740	26865	26990	
10 MHz	1 (RB_Pos:0)	23.33	23.39	23.29	24.00	22.24	22.71	22.34	23.00
	1 (RB_Pos:25)	23.48	23.45	23.45	24.00	22.40	22.83	22.46	23.00
	1 (RB_Pos:49)	23.32	23.28	23.31	24.00	22.25	22.66	22.33	23.00
	25 (RB_Pos:0)	22.31	22.35	22.42	23.00	21.34	21.42	21.48	22.00
	25 (RB_Pos:12)	22.38	22.40	22.36	23.00	21.41	21.44	21.42	22.00
	25 (RB_Pos:25)	22.37	22.34	22.26	23.00	21.38	21.40	21.36	22.00
	50 (RB_Pos:0)	22.35	22.36	22.37	23.00	21.34	21.39	21.40	22.00
	Channel	64QAM							
	1 (RB_Pos:0)	21.13	21.57	21.32	22.00	-	-	-	-
	1 (RB_Pos:25)	21.37	21.72	21.42	22.00	-	-	-	-
	1 (RB_Pos:49)	21.18	21.57	21.30	22.00	-	-	-	-
	25 (RB_Pos:0)	20.22	20.29	20.33	22.00	-	-	-	-
	25 (RB_Pos:12)	20.36	20.29	20.30	22.00	-	-	-	-

	25 (RB_Pos:25)	20.26	20.24	20.28	22.00	-	-	-	-
	50 (RB_Pos:0)	20.26	20.38	20.35	21.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26715	26865	27015		26715	26865	27015	
5 MHz	1 (RB_Pos:0)	23.28	23.25	23.23	24.00	22.40	22.78	22.33	23.00
	1 (RB_Pos:13)	23.40	23.40	23.36	24.00	22.52	22.83	22.45	23.00
	1 (RB_Pos:24)	23.31	23.25	23.20	24.00	22.43	22.71	22.35	23.00
	12 (RB_Pos:0)	22.29	22.34	22.32	23.00	21.34	21.44	21.38	22.00
	12 (RB_Pos:6)	22.42	22.41	22.41	23.00	21.50	21.56	21.46	22.00
	12 (RB_Pos:13)	22.37	22.35	22.27	23.00	21.44	21.46	21.31	22.00
	25 (RB_Pos:0)	22.30	22.37	22.32	23.00	21.34	21.43	21.27	22.00
	Channel	64QAM							
	1 (RB_Pos:0)	21.29	21.64	21.31	22.00	-	-	-	-
	1 (RB_Pos:13)	21.49	21.72	21.41	22.00	-	-	-	-
	1 (RB_Pos:24)	21.36	21.62	21.32	22.00	-	-	-	-
	12 (RB_Pos:0)	20.22	20.31	20.23	22.00	-	-	-	-
	12 (RB_Pos:6)	20.45	20.41	20.34	22.00	-	-	-	-
	12 (RB_Pos:13)	20.32	20.30	20.23	22.00	-	-	-	-
	25 (RB_Pos:0)	20.26	20.42	20.22	21.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26705	26865	27025		26705	26865	27025	
3 MHz	1 (RB_Pos:0)	23.39	23.40	23.31	24.00	22.29	22.68	22.38	23.00
	1 (RB_Pos:8)	23.36	23.34	23.35	24.00	22.25	22.68	22.33	23.00
	1 (RB_Pos:14)	23.37	23.37	23.27	24.00	22.28	22.73	22.31	23.00
	8 (RB_Pos:0)	22.40	22.33	22.35	23.00	21.46	21.44	21.40	22.00
	8 (RB_Pos:3)	22.43	22.38	22.37	23.00	21.53	21.47	21.42	22.00
	8 (RB_Pos:7)	22.38	22.37	22.31	23.00	21.47	21.44	21.35	22.00
	15 (RB_Pos:0)	22.36	22.37	22.34	23.00	21.39	21.41	21.31	22.00
	Channel	64QAM							
	1 (RB_Pos:0)	21.18	21.54	21.36	22.00	-	-	-	-
	1 (RB_Pos:8)	21.22	21.57	21.29	22.00	-	-	-	-
	1 (RB_Pos:14)	21.21	21.64	21.28	22.00	-	-	-	-
	8 (RB_Pos:0)	20.34	20.31	20.25	22.00	-	-	-	-
	8 (RB_Pos:3)	20.48	20.32	20.30	22.00	-	-	-	-
	8 (RB_Pos:7)	20.35	20.28	20.27	22.00	-	-	-	-
	15 (RB_Pos:0)	20.31	20.40	20.26	21.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26697	26865	27033		26697	26865	27033	
1.4 MHz	1 (RB_Pos:0)	23.25	23.28	23.23	24.00	22.33	22.64	22.29	23.00
	1 (RB_Pos:3)	23.41	23.51	23.39	24.00	22.54	22.81	22.34	23.00

	1 (RB_Pos:5)	23.27	23.24	23.25	24.00	22.39	22.61	22.25	23.00
	3 (RB_Pos:0)	23.34	23.32	23.32	24.00	22.34	22.54	22.50	23.00
	3 (RB_Pos:1)	23.39	23.39	23.38	24.00	22.41	22.49	22.54	23.00
	3 (RB_Pos:3)	23.34	23.34	23.35	24.00	22.37	22.50	22.42	23.00
	6 (RB_Pos:0)	22.35	22.30	22.26	23.00	21.47	21.21	21.47	22.00
	Channel	64QAM							
	1 (RB_Pos:0)	21.22	21.50	21.27	22.00	-	-	-	-
	1 (RB_Pos:3)	21.51	21.70	21.30	22.00	-	-	-	-
	1 (RB_Pos:5)	21.32	21.52	21.22	22.00	-	-	-	-
	3 (RB_Pos:0)	21.22	21.41	21.35	22.00	-	-	-	-
	3 (RB_Pos:1)	21.36	21.34	21.42	22.00	-	-	-	-
	3 (RB_Pos:3)	21.25	21.34	21.34	22.00	-	-	-	-
	6 (RB_Pos:0)	20.39	20.20	20.42	21.00	-	-	-	-

TDD LTE Band 41_PC3 Power Level A1													
Bandwidth (MHz)	RB Set	Power (dBm)											
		QPSK					Tune up limit (dBm)	16QAM					Tune up limit (dBm)
	Channel	39750	40185	40620	41055	41490		39750	40185	40620	41055	41490	
20MHz	1 (RB_Pos:0)	23.86	23.99	23.95	24.10	24.28	25.00	22.80	22.61	22.77	22.65	22.72	23.00
	1 (RB_Pos:50)	24.26	24.39	24.47	24.55	24.73	25.00	22.57	22.62	22.63	22.54	22.65	23.00
	1 (RB_Pos:99)	23.84	23.94	24.08	24.16	24.38	25.00	22.86	22.69	22.71	22.66	22.75	23.00
	50 (RB_Pos:0)	23.56	23.14	23.20	23.30	23.34	24.00	22.90	22.65	22.67	22.65	22.70	23.00
	50 (RB_Pos:25)	23.64	23.43	23.63	23.56	23.60	24.00	22.86	22.61	22.63	22.69	22.64	23.00
	50 (RB_Pos:50)	23.44	23.44	23.57	23.42	23.96	24.00	22.86	22.64	22.68	22.65	22.66	23.00
	100 (RB_Pos:0)	22.65	22.47	22.66	22.60	22.72	24.00	21.72	21.56	21.68	21.62	21.75	23.00
	Channel	64QAM											
	1 (RB_Pos:0)	21.79	21.79	21.83	21.80	21.93	23.00	-	-	-	-	-	-
	1 (RB_Pos:50)	21.85	21.78	21.80	21.80	21.88	23.00	-	-	-	-	-	-
	1 (RB_Pos:99)	21.79	21.71	21.79	21.82	21.81	23.00	-	-	-	-	-	-
	50 (RB_Pos:0)	21.81	21.77	21.79	21.80	21.84	22.00	-	-	-	-	-	-
	50 (RB_Pos:25)	21.75	21.48	21.67	21.55	21.67	22.00	-	-	-	-	-	-
	50 (RB_Pos:50)	21.51	21.51	21.54	21.51	21.62	22.00	-	-	-	-	-	-
	100 (RB_Pos:0)	20.63	20.50	20.63	20.57	20.67	22.00	-	-	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)											
		QPSK					Tune up limit (dBm)	16QAM					Tune up limit (dBm)
	Channel	39725	40160	40620	41080	41515		39725	40160	40620	41080	41515	
15MHz	1 (RB_Pos:0)	23.90	24.06	24.09	24.23	24.33	25.00	22.80	22.50	22.73	22.55	22.62	23.00
	1 (RB_Pos:38)	23.97	24.22	24.27	24.38	24.47	25.00	22.60	22.56	22.62	22.56	22.68	23.00
	1 (RB_Pos:74)	23.91	24.06	24.18	24.27	24.38	25.00	22.84	22.63	22.60	22.60	22.65	23.00
	36 (RB_Pos:0)	23.33	23.20	23.22	23.32	23.40	24.00	22.88	22.63	22.62	22.59	22.68	23.00
	36 (RB_Pos:20)	23.69	23.48	23.67	23.48	23.58	24.00	22.84	22.63	22.60	22.60	22.65	23.00

	36 (RB_Pos:39)	23.53	23.48	23.69	23.49	23.62	24.00	22.92	22.69	22.63	22.62	22.71	23.00
	75 (RB_Pos:0)	22.74	22.59	22.68	22.59	22.71	24.00	21.79	21.63	21.77	21.63	21.77	23.00
	Channel	64QAM											
	1 (RB_Pos:0)	21.82	21.63	21.78	21.79	21.69	23.00	-	-	-	-	-	-
	1 (RB_Pos:38)	21.88	21.83	21.77	21.75	21.90	23.00	-	-	-	-	-	-
	1 (RB_Pos:74)	21.88	21.80	21.79	21.80	21.92	23.00	-	-	-	-	-	-
	36 (RB_Pos:0)	21.84	21.79	21.76	21.79	21.89	22.00	-	-	-	-	-	-
	36 (RB_Pos:20)	21.73	21.57	21.74	21.63	21.69	22.00	-	-	-	-	-	-
	36 (RB_Pos:39)	21.68	21.58	21.64	21.57	21.64	22.00	-	-	-	-	-	-
	75 (RB_Pos:0)	20.71	20.56	20.75	20.67	20.74	22.00	-	-	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)											
		QPSK					Tune up limit (dBm)	16QAM					Tune up limit (dBm)
	Channel	39700	40135	40620	41105	41540		39700	40135	40620	41105	41540	
10MHz	1 (RB_Pos:0)	23.95	24.13	24.18	24.31	24.44	25.00	22.85	22.62	22.79	22.64	22.76	23.00
	1 (RB_Pos:25)	24.31	24.46	24.52	24.66	24.79	25.00	22.78	22.63	22.76	22.67	22.75	23.00
	1 (RB_Pos:49)	23.96	24.16	24.23	24.34	24.48	25.00	22.87	22.96	22.78	22.88	22.87	23.00
	25 (RB_Pos:0)	23.55	23.53	23.26	23.39	23.48	24.00	22.88	22.75	22.67	22.62	22.73	23.00
	25 (RB_Pos:12)	23.76	23.53	23.72	23.60	23.72	24.00	22.91	22.71	22.63	22.62	22.73	23.00
	25 (RB_Pos:25)	23.67	23.57	23.67	23.61	23.70	24.00	22.91	22.71	22.59	22.65	22.70	23.00
	50 (RB_Pos:0)	22.80	22.61	22.78	22.71	22.81	24.00	21.83	21.64	21.80	21.73	21.82	23.00
	Channel	64QAM											
	1 (RB_Pos:0)	21.88	21.91	21.82	21.80	21.95	23.00	-	-	-	-	-	-
	1 (RB_Pos:25)	21.89	21.86	21.81	21.82	21.92	23.00	-	-	-	-	-	-
	1 (RB_Pos:49)	21.90	21.87	21.78	21.83	21.92	23.00	-	-	-	-	-	-
	25 (RB_Pos:0)	21.88	21.88	21.81	21.82	21.91	22.00	-	-	-	-	-	-
	25 (RB_Pos:12)	21.81	21.59	21.74	21.62	21.76	22.00	-	-	-	-	-	-
	25 (RB_Pos:25)	21.76	21.61	21.70	21.62	21.73	22.00	-	-	-	-	-	-
	50 (RB_Pos:0)	20.79	20.60	20.78	20.71	20.82	22.00	-	-	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)											
		QPSK					Tune up limit (dBm)	16QAM					Tune up limit (dBm)
	Channel	39675	40110	40620	41130	41565		39675	40110	40620	41130	41565	
5MHz	1 (RB_Pos:0)	23.80	24.10	24.15	24.21	24.33	25.00	22.96	22.74	22.94	22.89	22.95	24.00
	1 (RB_Pos:13)	23.96	24.17	24.21	24.40	24.45	25.00	22.94	22.75	22.95	22.88	22.95	24.00
	1 (RB_Pos:24)	23.87	24.09	24.11	24.23	24.42	25.00	22.98	22.98	22.92	22.94	22.92	24.00
	12 (RB_Pos:0)	23.93	23.37	23.28	23.29	23.42	24.00	21.90	21.96	21.88	21.81	21.95	23.00
	12 (RB_Pos:6)	23.65	23.45	23.62	23.48	23.68	24.00	21.87	21.95	21.89	21.81	21.92	23.00
	12 (RB_Pos:13)	23.63	23.44	23.61	23.52	23.64	24.00	21.90	21.93	21.90	21.76	21.92	23.00
	25 (RB_Pos:0)	22.77	22.56	22.73	22.71	22.73	24.00	21.87	21.64	21.83	21.73	21.87	23.00
	Channel	64QAM											
	1 (RB_Pos:0)	21.78	21.55	21.73	21.65	21.71	23.00	-	-	-	-	-	-
	1 (RB_Pos:13)	21.78	21.59	21.69	21.63	21.82	23.00	-	-	-	-	-	-
	1 (RB_Pos:24)	21.91	21.89	21.89	21.87	21.83	23.00	-	-	-	-	-	-

	12 (RB_Pos:0)	20.78	20.83	20.73	20.69	20.82	22.00	-	-	-	-	-	-
	12 (RB_Pos:6)	20.82	20.80	20.77	20.76	20.77	22.00	-	-	-	-	-	-
	12 (RB_Pos:13)	20.78	20.77	20.82	20.64	20.76	22.00	-	-	-	-	-	-
	25 (RB_Pos:0)	20.81	20.60	20.78	20.73	20.84	22.00	-	-	-	-	-	-

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Bandwidth (MHz)	RB Set	Power (dBm)											
		QPSK					Tune up limit (dBm)	16QAM					Tune up limit (dBm)
	Channel	39750	40185	40620	41055	41490		39750	40185	40620	41055	41490	
20MHz	1 (RB_Pos:0)	26.05	26.14	26.07	26.20	26.37	28.00	25.31	25.40	25.26	25.42	25.66	26.00
	1 (RB_Pos:50)	26.46	26.57	26.59	26.62	26.77	28.00	25.69	25.78	25.74	25.79	25.39	26.00
	1 (RB_Pos:99)	26.09	26.07	26.22	26.27	26.45	28.00	25.35	25.36	25.36	25.46	25.76	26.00
	50 (RB_Pos:0)	25.09	25.30	25.30	25.34	25.39	27.00	24.11	24.26	24.30	24.37	24.45	26.00
	50 (RB_Pos:25)	25.14	25.28	25.28	25.37	25.44	27.00	24.14	24.29	24.31	24.35	24.48	26.00
	50 (RB_Pos:50)	25.13	25.18	25.27	25.37	25.42	27.00	24.12	24.19	24.31	24.38	24.45	26.00
	100 (RB_Pos:0)	25.11	25.24	25.29	25.36	25.37	27.00	24.13	24.24	24.30	24.38	24.42	26.00
	Channel	64QAM											
	1 (RB_Pos:0)	24.29	24.29	24.12	24.40	24.52	26.00	-	-	-	-	-	-
	1 (RB_Pos:50)	24.65	24.75	24.63	24.75	24.28	26.00	-	-	-	-	-	-
	1 (RB_Pos:99)	24.32	24.29	24.27	24.43	24.67	26.00	-	-	-	-	-	-
	50 (RB_Pos:0)	23.16	23.14	23.17	23.22	23.32	25.00	-	-	-	-	-	-
	50 (RB_Pos:25)	23.02	23.24	23.16	23.23	23.33	25.00	-	-	-	-	-	-
	50 (RB_Pos:50)	23.04	23.07	23.15	23.30	23.29	25.00	-	-	-	-	-	-
	100 (RB_Pos:0)	23.08	23.16	23.29	23.33	23.41	25.00	-	-	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)											
		QPSK					Tune up limit (dBm)	16QAM					Tune up limit (dBm)
	Channel	39725	40160	40620	41080	41515		39725	40160	40620	41080	41515	
15MHz	1 (RB_Pos:0)	26.05	26.21	26.20	26.30	26.40	28.00	25.27	25.44	25.60	25.73	25.67	26.00
	1 (RB_Pos:38)	26.20	26.30	26.39	26.43	26.55	28.00	25.42	25.56	25.75	25.81	25.82	26.00
	1 (RB_Pos:74)	26.05	26.17	26.23	26.32	26.47	28.00	25.30	25.40	25.62	25.72	25.72	26.00
	36 (RB_Pos:0)	25.15	25.31	25.34	25.41	25.49	27.00	24.10	24.28	24.26	24.33	24.47	26.00
	36 (RB_Pos:20)	25.21	25.35	25.41	25.43	25.52	27.00	24.17	24.29	24.34	24.43	24.49	26.00
	36 (RB_Pos:39)	25.20	25.35	25.35	25.45	25.51	27.00	24.13	24.28	24.27	24.38	24.48	26.00
	75 (RB_Pos:0)	25.20	25.35	25.35	25.44	25.52	27.00	24.18	24.31	24.31	24.40	24.49	26.00
	Channel	64QAM											
	1 (RB_Pos:0)	24.16	24.30	24.58	24.70	24.53	26.00	-	-	-	-	-	-
	1 (RB_Pos:38)	24.39	24.45	24.71	24.69	24.71	26.00	-	-	-	-	-	-
	1 (RB_Pos:74)	24.23	24.31	24.59	24.26	24.63	26.00	-	-	-	-	-	-
	36 (RB_Pos:0)	23.18	23.15	23.11	23.31	23.34	25.00	-	-	-	-	-	-
	36 (RB_Pos:20)	23.12	23.14	23.22	23.33	23.34	25.00	-	-	-	-	-	-
	36 (RB_Pos:39)	23.01	23.12	23.19	23.28	23.32	25.00	-	-	-	-	-	-
	75 (RB_Pos:0)	23.10	23.30	23.26	23.10	23.48	25.00	-	-	-	-	-	-

Bandwidth (MHz)	RB Set	Power (dBm)											
		QPSK					Tune up limit (dBm)	16QAM					Tune up limit (dBm)
	Channel	39700	40135	40620	41105	41540		39700	40135	40620	41105	41540	
10MHz	1 (RB_Pos:0)	26.10	26.27	26.27	26.38	26.49	28.00	25.34	25.52	25.64	25.74	25.83	26.00
	1 (RB_Pos:25)	26.46	26.59	26.61	26.74	26.65	28.00	25.66	25.80	25.99	25.87	25.55	26.00
	1 (RB_Pos:49)	26.12	26.26	26.31	26.42	26.55	28.00	25.36	25.52	25.70	25.79	25.89	26.00
	25 (RB_Pos:0)	25.15	25.34	25.33	25.44	25.55	27.00	24.21	24.38	24.35	24.45	24.56	26.00
	25 (RB_Pos:12)	25.24	25.38	25.36	25.48	25.57	27.00	24.24	24.43	24.36	24.48	24.60	26.00
	25 (RB_Pos:25)	25.21	25.37	25.36	25.48	25.53	27.00	24.21	24.33	24.33	24.45	24.59	26.00
	50 (RB_Pos:0)	25.16	25.32	25.31	25.43	25.53	27.00	24.17	24.38	24.34	24.43	24.58	26.00
	Channel	64QAM											
	1 (RB_Pos:0)	24.32	24.41	24.53	24.60	24.81	26.00	-	-	-	-	-	-
	1 (RB_Pos:25)	24.62	24.77	24.96	24.76	24.51	26.00	-	-	-	-	-	-
	1 (RB_Pos:49)	24.33	24.45	24.63	24.70	24.86	26.00	-	-	-	-	-	-
	25 (RB_Pos:0)	23.06	23.26	23.23	23.32	23.41	25.00	-	-	-	-	-	-
	25 (RB_Pos:12)	23.12	23.38	23.31	23.33	23.48	25.00	-	-	-	-	-	-
	25 (RB_Pos:25)	23.13	23.21	23.21	23.29	23.51	25.00	-	-	-	-	-	-
	50 (RB_Pos:0)	23.12	23.30	23.26	23.42	23.53	25.00	-	-	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)											
		QPSK					Tune up limit (dBm)	16QAM					Tune up limit (dBm)
	Channel	39675	40110	40620	41130	41565		39675	40110	40620	41130	41565	
5MHz	1 (RB_Pos:0)	26.12	26.22	26.22	26.29	26.44	28.00	25.14	25.43	25.48	25.53	25.80	27.00
	1 (RB_Pos:13)	26.02	26.31	26.33	26.40	26.55	28.00	25.22	25.52	25.58	25.68	25.87	27.00
	1 (RB_Pos:24)	26.16	26.23	26.23	26.33	26.48	28.00	25.16	25.49	25.47	25.58	25.79	27.00
	12 (RB_Pos:0)	26.07	25.29	25.32	25.36	25.48	27.00	24.01	24.32	24.30	24.31	24.54	26.00
	12 (RB_Pos:6)	25.05	25.34	25.38	25.41	25.56	27.00	24.07	24.36	24.36	24.40	24.67	26.00
	12 (RB_Pos:13)	25.00	25.29	25.26	25.38	25.49	27.00	24.03	24.30	24.24	24.36	24.58	26.00
	25 (RB_Pos:0)	25.00	25.21	25.27	25.36	25.48	27.00	24.39	24.29	24.35	24.39	24.51	26.00
	Channel	64QAM											
	1 (RB_Pos:0)	24.12	24.32	24.34	24.51	24.66	26.00	-	-	-	-	-	-
	1 (RB_Pos:13)	24.18	24.49	24.47	24.64	24.76	26.00	-	-	-	-	-	-
	1 (RB_Pos:24)	24.13	24.42	24.38	24.55	24.70	26.00	-	-	-	-	-	-
	12 (RB_Pos:0)	23.36	23.20	23.17	23.16	23.41	25.00	-	-	-	-	-	-
	12 (RB_Pos:6)	23.25	23.31	23.21	23.28	23.52	25.00	-	-	-	-	-	-
	12 (RB_Pos:13)	23.33	23.18	23.08	23.28	23.42	25.00	-	-	-	-	-	-
	25 (RB_Pos:0)	23.34	23.21	23.34	23.34	23.50	25.00	-	-	-	-	-	-

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Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	132072	132322	132572		132072	132322	132572	
20 MHz	1 (RB_Pos:0)	24.74	24.66	24.65	25.00	23.83	23.71	23.82	24.00
	1 (RB_Pos:50)	24.93	24.88	24.87	25.00	23.83	23.72	23.86	24.00
	1 (RB_Pos:99)	24.59	24.60	24.46	25.00	23.79	23.99	23.86	24.00
	50 (RB_Pos:0)	23.79	23.80	23.85	24.00	22.86	22.80	22.72	24.00
	50 (RB_Pos:25)	23.81	23.77	23.77	24.00	22.87	22.77	22.74	24.00
	50 (RB_Pos:50)	23.76	23.60	23.60	24.00	22.80	22.66	22.56	24.00
	100 (RB_Pos:0)	23.78	23.72	23.72	24.00	22.82	22.70	22.70	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.72	22.57	22.80	23.00	-	-	-	-
	1 (RB_Pos:50)	22.80	22.61	22.82	23.00	-	-	-	-
	1 (RB_Pos:99)	22.72	22.90	22.83	23.00	-	-	-	-
	50 (RB_Pos:0)	21.74	21.67	21.57	23.00	-	-	-	-
	50 (RB_Pos:25)	21.82	21.62	21.62	23.00	-	-	-	-
	50 (RB_Pos:50)	21.68	21.50	21.48	23.00	-	-	-	-
	100 (RB_Pos:0)	21.74	21.69	21.65	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	132047	132322	132597		132047	132322	132597	
15 MHz	1 (RB_Pos:0)	24.78	24.69	24.77	25.00	23.67	23.82	23.81	24.00
	1 (RB_Pos:38)	24.78	24.75	24.75	25.00	23.69	23.85	23.82	24.00
	1 (RB_Pos:74)	24.59	24.59	24.60	25.00	23.55	23.93	23.90	24.00
	36 (RB_Pos:0)	23.98	23.80	23.92	24.00	22.87	22.79	22.82	24.00
	36 (RB_Pos:20)	23.91	23.84	23.83	24.00	22.83	22.84	22.78	24.00
	36 (RB_Pos:39)	23.84	23.78	23.72	24.00	22.83	22.71	22.63	24.00
	75 (RB_Pos:0)	23.87	23.85	23.82	24.00	22.80	22.76	22.74	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.56	22.68	22.79	23.00	-	-	-	-
	1 (RB_Pos:38)	22.66	22.74	22.78	23.00	-	-	-	-
	1 (RB_Pos:74)	22.48	22.84	22.87	23.00	-	-	-	-
	36 (RB_Pos:0)	21.75	21.66	21.67	23.00	-	-	-	-
	36 (RB_Pos:20)	21.78	21.69	21.66	23.00	-	-	-	-
	36 (RB_Pos:39)	21.71	21.55	21.55	23.00	-	-	-	-
	75 (RB_Pos:0)	21.72	21.75	21.69	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	132022	132322	132622		132022	132322	132622	
10 MHz	1 (RB_Pos:0)	24.77	24.71	24.70	25.00	23.71	23.73	23.74	24.00
	1 (RB_Pos:25)	24.95	24.86	24.86	25.00	23.82	23.77	23.79	24.00
	1 (RB_Pos:49)	24.71	24.62	24.67	25.00	23.67	23.81	23.61	24.00

	25 (RB_Pos:0)	23.89	23.74	23.80	24.00	22.87	22.77	22.90	24.00
	25 (RB_Pos:12)	23.81	23.72	23.74	24.00	22.83	22.70	22.84	24.00
	25 (RB_Pos:25)	23.82	23.70	23.64	24.00	22.79	22.73	22.70	24.00
	50 (RB_Pos:0)	23.86	23.72	23.71	24.00	22.80	22.76	22.75	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.60	22.59	22.72	23.00	-	-	-	-
	1 (RB_Pos:25)	22.79	22.66	22.75	23.00	-	-	-	-
	1 (RB_Pos:49)	22.60	22.72	22.58	23.00	-	-	-	-
	25 (RB_Pos:0)	21.75	21.64	21.75	23.00	-	-	-	-
	25 (RB_Pos:12)	21.78	21.55	21.72	23.00	-	-	-	-
	25 (RB_Pos:25)	21.67	21.57	21.62	23.00	-	-	-	-
	50 (RB_Pos:0)	21.72	21.75	21.70	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	131997	132322	132647		131997	132322	132647	
5 MHz	1 (RB_Pos:0)	24.76	24.61	24.60	25.00	23.87	23.81	23.71	24.00
	1 (RB_Pos:13)	24.84	24.75	24.71	25.00	23.97	23.82	23.80	24.00
	1 (RB_Pos:24)	24.69	24.58	24.59	25.00	23.85	23.75	23.62	24.00
	12 (RB_Pos:0)	23.84	23.67	23.68	25.00	22.92	22.81	22.72	24.00
	12 (RB_Pos:6)	23.91	23.73	23.73	25.00	22.95	22.83	22.76	24.00
	12 (RB_Pos:13)	23.78	23.67	23.66	25.00	22.85	22.77	22.68	24.00
	25 (RB_Pos:0)	23.86	23.68	23.69	24.00	22.83	22.76	22.65	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.76	22.67	22.69	23.00	-	-	-	-
	1 (RB_Pos:13)	22.94	22.71	22.76	23.00	-	-	-	-
	1 (RB_Pos:24)	22.78	22.66	22.59	23.00	-	-	-	-
	12 (RB_Pos:0)	21.80	21.68	21.57	23.00	-	-	-	-
	12 (RB_Pos:6)	21.90	21.68	21.64	23.00	-	-	-	-
	12 (RB_Pos:13)	21.73	21.61	21.60	23.00	-	-	-	-
	25 (RB_Pos:0)	21.75	21.75	21.60	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	131987	132322	132657		131987	132322	132657	
3 MHz	1 (RB_Pos:0)	24.87	24.71	24.74	25.00	23.75	23.93	23.68	24.00
	1 (RB_Pos:8)	24.85	24.74	24.74	25.00	23.72	23.92	23.69	24.00
	1 (RB_Pos:14)	24.78	24.69	24.71	25.00	23.64	23.93	23.66	24.00
	8 (RB_Pos:0)	23.87	23.72	23.73	25.00	22.93	22.78	22.76	24.00
	8 (RB_Pos:3)	23.93	23.75	23.76	25.00	22.97	22.83	22.77	24.00
	8 (RB_Pos:7)	23.88	23.72	23.69	25.00	22.93	22.77	22.72	24.00
	15 (RB_Pos:0)	23.84	23.69	23.71	24.00	22.84	22.71	22.65	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.64	22.79	22.66	23.00	-	-	-	-
	1 (RB_Pos:8)	22.69	22.81	22.65	23.00	-	-	-	-
	1 (RB_Pos:14)	22.57	22.84	22.63	23.00	-	-	-	-

	8 (RB_Pos:0)	21.81	21.65	21.61	23.00	-	-	-	-
	8 (RB_Pos:3)	21.92	21.68	21.65	23.00	-	-	-	-
	8 (RB_Pos:7)	21.81	21.61	21.64	23.00	-	-	-	-
	15 (RB_Pos:0)	21.76	21.70	21.60	22.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	131979	132322	132665		131979	132322	132665	
1.4 MHz	1 (RB_Pos:0)	24.76	24.69	24.71	25.00	23.82	24.00	23.64	24.00
	1 (RB_Pos:3)	24.88	24.83	24.83	25.00	23.81	23.91	23.81	24.00
	1 (RB_Pos:5)	24.78	24.67	24.66	25.00	23.83	23.98	23.67	24.00
	3 (RB_Pos:0)	24.83	24.73	24.75	25.00	23.79	23.90	23.85	24.00
	3 (RB_Pos:1)	24.87	24.79	24.78	25.00	23.85	23.91	23.87	24.00
	3 (RB_Pos:3)	24.81	24.75	24.78	25.00	23.83	23.88	23.86	24.00
	6 (RB_Pos:0)	23.86	23.74	23.72	24.00	22.98	22.61	22.88	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.71	22.86	22.62	23.00	-	-	-	-
	1 (RB_Pos:3)	22.78	22.80	22.77	23.00	-	-	-	-
	1 (RB_Pos:5)	22.76	22.89	22.64	23.00	-	-	-	-
	3 (RB_Pos:0)	22.67	22.77	22.70	23.00	-	-	-	-
	3 (RB_Pos:1)	22.80	22.76	22.75	23.00	-	-	-	-
	3 (RB_Pos:3)	22.71	22.72	22.78	23.00	-	-	-	-
	6 (RB_Pos:0)	21.90	21.60	21.83	22.00	-	-	-	-

FDD LTE Band 66 Power Level B1

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	132072	132322	132572		132072	132322	132572	
20 MHz	1 (RB_Pos:0)	21.85	21.72	21.70	22.00	20.32	20.23	20.18	21.00
	1 (RB_Pos:50)	21.93	21.96	21.95	22.00	20.47	20.44	20.45	21.00
	1 (RB_Pos:99)	21.68	21.71	21.64	22.00	20.16	20.19	20.10	21.00
	50 (RB_Pos:0)	20.81	20.81	20.90	21.00	19.86	19.85	19.92	20.00
	50 (RB_Pos:25)	20.84	20.86	20.89	21.00	19.84	19.79	19.88	20.00
	50 (RB_Pos:50)	20.75	20.73	20.77	21.00	19.78	19.74	19.74	20.00
	100 (RB_Pos:0)	20.81	20.78	20.85	21.00	19.87	19.80	19.86	20.00
	Channel	64QAM							
	1 (RB_Pos:0)	19.21	19.09	19.16	20.00	-	-	-	-
	1 (RB_Pos:50)	19.44	19.33	19.41	20.00	-	-	-	-
	1 (RB_Pos:99)	19.09	19.10	19.07	20.00	-	-	-	-
	50 (RB_Pos:0)	18.74	18.72	18.77	19.00	-	-	-	-
	50 (RB_Pos:25)	18.79	18.64	18.76	19.00	-	-	-	-
	50 (RB_Pos:50)	18.66	18.58	18.66	19.00	-	-	-	-
	100 (RB_Pos:0)	18.79	18.79	18.81	19.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	132047	132322	132597		132047	132322	132597	
15 MHz	1 (RB_Pos:0)	21.87	21.80	21.78	22.00	20.79	19.93	19.96	21.00
	1 (RB_Pos:38)	21.84	21.80	21.84	22.00	20.77	19.86	19.93	21.00
	1 (RB_Pos:74)	21.62	21.72	21.71	22.00	20.60	19.82	19.89	21.00
	36 (RB_Pos:0)	20.86	20.81	20.91	21.00	19.86	19.86	19.88	20.00
	36 (RB_Pos:20)	20.87	20.86	20.95	21.00	19.83	19.92	19.91	20.00
	36 (RB_Pos:39)	20.82	20.78	20.88	21.00	19.78	19.83	19.82	20.00
	75 (RB_Pos:0)	20.84	20.81	20.93	21.00	19.86	19.81	19.89	20.00
	Channel	64QAM							
	1 (RB_Pos:0)	19.68	19.96	19.86	20.00	-	-	-	-
	1 (RB_Pos:38)	19.74	19.89	19.64	20.00	-	-	-	-
	1 (RB_Pos:74)	19.53	19.92	19.88	20.00	-	-	-	-
	36 (RB_Pos:0)	18.74	18.73	18.73	19.00	-	-	-	-
	36 (RB_Pos:20)	18.78	18.77	18.79	19.00	-	-	-	-
	36 (RB_Pos:39)	18.66	18.67	18.74	19.00	-	-	-	-
	75 (RB_Pos:0)	18.78	18.80	18.84	19.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	132022	132322	132622		132022	132322	132622	
10 MHz	1 (RB_Pos:0)	21.86	21.79	21.82	22.00	20.83	20.88	20.95	21.00
	1 (RB_Pos:25)	21.74	21.92	21.89	22.00	20.94	19.93	19.82	21.00
	1 (RB_Pos:49)	21.73	21.75	21.77	22.00	20.73	20.93	20.87	21.00

	25 (RB_Pos:0)	20.87	20.79	20.94	21.00	19.87	19.90	19.93	20.00
	25 (RB_Pos:12)	20.88	20.83	20.88	21.00	19.90	19.87	19.99	20.00
	25 (RB_Pos:25)	20.84	20.80	20.86	21.00	19.86	19.86	19.96	20.00
	50 (RB_Pos:0)	20.87	20.82	20.92	21.00	19.87	19.84	19.97	20.00
	Channel	64QAM							
	1 (RB_Pos:0)	19.72	19.73	19.93	20.00	-	-	-	-
	1 (RB_Pos:25)	19.91	19.78	19.55	20.00	-	-	-	-
	1 (RB_Pos:49)	19.66	19.82	19.84	20.00	-	-	-	-
	25 (RB_Pos:0)	18.75	18.77	18.90	19.00	-	-	-	-
	25 (RB_Pos:12)	18.85	18.72	18.87	19.00	-	-	-	-
	25 (RB_Pos:25)	18.74	18.70	18.88	19.00	-	-	-	-
	50 (RB_Pos:0)	18.79	18.83	18.92	19.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	131997	132322	132647		131997	132322	132647	
5 MHz	1 (RB_Pos:0)	21.81	21.70	21.72	22.00	20.97	19.82	20.93	21.00
	1 (RB_Pos:13)	21.93	21.80	21.86	22.00	19.93	19.87	19.86	21.00
	1 (RB_Pos:24)	21.73	21.69	21.72	22.00	20.95	19.90	20.91	21.00
	12 (RB_Pos:0)	20.83	20.76	20.88	21.00	19.86	19.89	19.90	20.00
	12 (RB_Pos:6)	20.89	20.81	20.91	21.00	19.96	19.96	19.95	20.00
	12 (RB_Pos:13)	20.83	20.76	20.80	21.00	19.93	19.90	19.87	20.00
	25 (RB_Pos:0)	20.85	20.75	20.82	21.00	19.89	19.84	19.82	20.00
	Channel	64QAM							
	1 (RB_Pos:0)	19.86	19.66	19.91	20.00	-	-	-	-
	1 (RB_Pos:13)	19.64	19.84	19.98	20.00	-	-	-	-
	1 (RB_Pos:24)	19.88	19.71	19.88	20.00	-	-	-	-
	12 (RB_Pos:0)	18.74	18.76	18.75	19.00	-	-	-	-
	12 (RB_Pos:6)	18.91	18.81	18.83	19.00	-	-	-	-
	12 (RB_Pos:13)	18.81	18.74	18.79	19.00	-	-	-	-
	25 (RB_Pos:0)	18.81	18.83	18.77	19.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	131987	132322	132657		131987	132322	132657	
3 MHz	1 (RB_Pos:0)	21.88	21.78	21.87	22.00	20.82	20.79	20.94	21.00
	1 (RB_Pos:8)	21.86	21.81	21.81	22.00	20.81	20.88	20.89	21.00
	1 (RB_Pos:14)	21.80	21.76	21.83	22.00	20.80	20.71	20.90	21.00
	8 (RB_Pos:0)	20.87	20.77	20.88	21.00	19.84	19.88	19.89	20.00
	8 (RB_Pos:3)	20.92	20.77	20.90	21.00	19.82	19.90	19.93	20.00
	8 (RB_Pos:7)	20.84	20.79	20.85	21.00	19.98	19.85	19.86	20.00
	15 (RB_Pos:0)	20.83	20.78	20.87	21.00	19.88	19.78	19.82	20.00
	Channel	64QAM							
	1 (RB_Pos:0)	19.71	19.86	19.92	20.00	-	-	-	-
	1 (RB_Pos:8)	19.78	19.55	19.85	20.00	-	-	-	-
	1 (RB_Pos:14)	19.73	19.75	19.87	20.00	-	-	-	-

	8 (RB_Pos:0)	18.90	18.75	18.74	19.00	-	-	-	-
	8 (RB_Pos:3)	18.97	18.75	18.81	19.00	-	-	-	-
	8 (RB_Pos:7)	18.86	18.69	18.78	19.00	-	-	-	-
	15 (RB_Pos:0)	18.80	18.77	18.77	19.00	-	-	-	-
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	131979	132322	132665		131979	132322	132665	
1.4 MHz	1 (RB_Pos:0)	21.76	21.75	21.77	22.00	20.95	20.86	20.84	21.00
	1 (RB_Pos:3)	21.95	21.88	21.91	22.00	20.82	20.79	20.75	21.00
	1 (RB_Pos:5)	21.78	21.78	21.75	22.00	20.93	20.84	20.88	21.00
	3 (RB_Pos:0)	21.91	21.82	21.88	22.00	20.93	20.82	20.88	21.00
	3 (RB_Pos:1)	21.87	21.88	21.94	22.00	20.96	20.73	20.72	21.00
	3 (RB_Pos:3)	21.91	21.83	21.93	22.00	20.94	20.77	20.71	21.00
	6 (RB_Pos:0)	20.87	20.75	20.87	21.00	19.67	19.72	19.55	20.00
	Channel	64QAM							
	1 (RB_Pos:0)	19.84	19.72	19.82	20.00	-	-	-	-
	1 (RB_Pos:3)	19.79	19.78	19.81	20.00	-	-	-	-
	1 (RB_Pos:5)	19.86	19.75	19.85	20.00	-	-	-	-
	3 (RB_Pos:0)	19.81	19.91	19.93	20.00	-	-	-	-
	3 (RB_Pos:1)	19.91	19.89	19.85	20.00	-	-	-	-
	3 (RB_Pos:3)	19.82	19.87	19.82	20.00	-	-	-	-
	6 (RB_Pos:0)	18.99	18.71	19.00	19.00	-	-	-	-

FDD LTE Band 71 Power Level A1									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	133222	133322	133372		133222	133322	133372	
20 MHz	1 (RB_Pos:0)	23.77	23.83	23.77	25.00	23.24	23.23	23.17	24.00
	1 (RB_Pos:50)	24.09	24.15	24.13	25.00	23.57	23.50	23.41	24.00
	1 (RB_Pos:99)	23.79	23.81	23.79	25.00	23.30	23.22	23.19	24.00
	50 (RB_Pos:0)	22.82	22.94	22.89	24.00	21.85	21.99	21.86	23.00
	50 (RB_Pos:25)	22.89	22.92	22.91	24.00	21.96	21.95	21.94	23.00
	50 (RB_Pos:50)	22.86	22.91	22.85	24.00	21.89	21.94	21.89	23.00
	100 (RB_Pos:0)	22.87	22.89	22.88	24.00	21.89	21.91	21.92	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.13	22.09	22.15	23.00	-	-	-	-
	1 (RB_Pos:50)	22.54	22.39	22.37	23.00	-	-	-	-
	1 (RB_Pos:99)	22.23	22.13	22.16	23.00	-	-	-	-
	50 (RB_Pos:0)	20.73	20.86	20.71	22.00	-	-	-	-
	50 (RB_Pos:25)	20.91	20.80	20.82	22.00	-	-	-	-
	50 (RB_Pos:50)	20.77	20.78	20.81	22.00	-	-	-	-
	100 (RB_Pos:0)	20.81	20.90	20.87	22.00	-	-	-	-

Bandwidth (MHz)	RB Set Channel	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		132047	132322	132597		132047	132322	132597	
15 MHz	1 (RB_Pos:0)	23.84	23.85	23.81	25.00	22.72	23.22	23.25	24.00
	1 (RB_Pos:38)	23.89	23.95	23.93	25.00	22.82	23.27	23.35	24.00
	1 (RB_Pos:74)	23.87	23.83	23.87	25.00	22.76	23.16	23.26	24.00
	36 (RB_Pos:0)	22.93	22.99	22.94	24.00	21.88	22.01	21.90	23.00
	36 (RB_Pos:20)	23.04	23.00	22.97	24.00	22.01	22.05	21.94	23.00
	36 (RB_Pos:39)	23.00	22.96	22.96	24.00	21.92	22.00	21.93	23.00
	75 (RB_Pos:0)	22.94	22.97	22.93	24.00	21.90	21.99	21.92	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	21.61	22.08	22.23	23.00	-	-	-	-
	1 (RB_Pos:38)	21.79	22.16	22.31	23.00	-	-	-	-
	1 (RB_Pos:74)	21.69	22.07	22.23	23.00	-	-	-	-
	36 (RB_Pos:0)	20.76	20.88	20.75	22.00	-	-	-	-
	36 (RB_Pos:20)	20.96	20.90	20.82	22.00	-	-	-	-
	36 (RB_Pos:39)	20.80	20.84	20.85	22.00	-	-	-	-
	75 (RB_Pos:0)	20.82	20.98	20.87	22.00	-	-	-	-
Bandwidth (MHz)	RB Set Channel	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		132022	132322	132622		132022	132322	132622	
10 MHz	1 (RB_Pos:0)	23.92	23.94	23.87	25.00	22.78	23.23	22.87	24.00
	1 (RB_Pos:25)	24.13	24.07	24.05	25.00	23.03	23.40	23.12	24.00
	1 (RB_Pos:49)	23.87	23.94	23.98	25.00	22.83	23.26	22.96	24.00
	25 (RB_Pos:0)	22.92	22.97	23.00	24.00	21.91	22.02	22.11	23.00
	25 (RB_Pos:12)	22.97	23.02	22.95	24.00	21.98	22.04	22.10	23.00
	25 (RB_Pos:25)	23.01	22.97	22.96	24.00	22.03	22.03	22.06	23.00
	50 (RB_Pos:0)	22.96	23.01	23.00	24.00	21.97	22.05	22.04	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	21.67	22.09	21.85	23.00	-	-	-	-
	1 (RB_Pos:25)	22.00	22.29	22.08	23.00	-	-	-	-
	1 (RB_Pos:49)	21.76	22.17	21.93	23.00	-	-	-	-
	25 (RB_Pos:0)	20.79	20.89	20.96	22.00	-	-	-	-
	25 (RB_Pos:12)	20.93	20.89	20.98	22.00	-	-	-	-
	25 (RB_Pos:25)	20.91	20.87	20.98	22.00	-	-	-	-
	50 (RB_Pos:0)	20.89	21.04	20.99	22.00	-	-	-	-
Bandwidth (MHz)	RB Set Channel	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		131997	132322	132647		131997	132322	132647	
5 MHz	1 (RB_Pos:0)	23.86	23.89	23.82	25.00	23.27	23.00	22.99	24.00
	1 (RB_Pos:13)	23.99	23.95	23.93	25.00	23.41	23.07	23.14	24.00
	1 (RB_Pos:24)	23.90	23.88	23.85	25.00	23.38	22.98	23.01	24.00
	12 (RB_Pos:0)	22.87	22.93	22.92	24.00	22.00	21.96	21.97	23.00

	12 (RB_Pos:6)	23.00	23.04	23.00	24.00	22.12	22.04	22.08	23.00
	12 (RB_Pos:13)	22.94	22.94	22.92	24.00	22.06	21.93	21.99	23.00
	25 (RB_Pos:0)	22.91	22.97	22.91	24.00	21.96	21.90	21.96	23.00
	Channel	64QAM							
	1 (RB_Pos:0)	22.16	21.86	21.97	23.00	-	-	-	-
	1 (RB_Pos:13)	22.38	21.96	22.10	23.00	-	-	-	-
	1 (RB_Pos:24)	22.31	21.89	21.98	23.00	-	-	-	-
	12 (RB_Pos:0)	20.88	20.83	20.82	22.00	-	-	-	-
	12 (RB_Pos:6)	21.07	20.89	20.96	22.00	-	-	-	-
	12 (RB_Pos:13)	20.94	20.77	20.91	22.00	-	-	-	-
	25 (RB_Pos:0)	20.88	20.89	20.91	22.00	-	-	-	-

8.4 Intra-Band Uplink CA

LTE Uplink 2CA_ Band 41-Power Level A1-ANT2										
Combination 20MHz+20MHz(100RB+100RB)										
PCC	SCC	Bandwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)	Max. tune-up power(dBm)
				RB	RB	RB	RB			
				Size	Pos.	Size	Pos.			
39750	39948	20	QPSK	1	High	1	Low	2	23.79	25.00
40185	40383	20	QPSK	1	High	1	Low	2	24.01	25.00
40620	40818	20	QPSK	1	High	1	Low	2	24.15	25.00
41055	40857	20	QPSK	1	Low	1	High	2	23.98	25.00
41490	41292	20	QPSK	1	Low	1	High	2	24.38	25.00

8.5 Power Confirmation for SAR test Exclusion for LTE Downlink CA

8.5.1 DL CA Power (Normal Power)

The conducted power measurement results of downlink LTE CA Conducted Power are as below(Normal Power):													
DL LTE CA Clas	PCC								SCC			Power	
	PCC Band	PCC Bandwidth	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth	SCC DL Chanel	Rel 8 LTETx Power(dBm)	Rel 10 DL LTE CA TX Power(dBm)
41C PC2	41	20	1	50	100	0	41490	41490	41	20	41253	26.77	24.12
41A-41A PC2	41	20	1	50	100	0	41490	41490	41	20	39675	26.77	24.13
41C PC3	41	10	1	25	50	0	41540	41540	41	20	41253	24.79	24.11
41A-41A PC3	41	10	1	25	50	0	41540	41540	41	20	39675	24.79	24.09
66C	66	20	1	50	100	0	132072	66536	66	20	66838	24.93	24.63
66B	66	10	1	25	50	0	132022	66486	66	10	66987	24.95	24.41
66A-5A	66	3	1	0	15	0	131987	66451	5	10	2525	24.87	24.37
66A-12A	66	3	1	0	15	0	131987	66451	12	10	5095	24.87	24.33
66A-71A	66	3	1	0	15	0	131987	66451	71	20	68786	24.87	24.40
66A-66A	66	20	1	50	100	0	132072	66536	66	20	66838	24.93	24.39
12A-66A	12	10	1	50	50	0	23130	5130	66	20	66786	24.86	24.25
71A-66A	71	20	1	50	100	0	133322	68786	66	20	66786	24.15	23.31

8.5.2 DL CA Power (Reduced Power)

The conducted power measurement results of downlink LTE CA Conducted Power are as below(Reduced Power):													
DL LTE CA Clas	PCC								SCC			Power	
	PCC Band	PCC Bandwidth	PCC UL RB size	PCC UL RB offset	PCC DL RB size	PCC DL RB offset	PCC UL Channel	PCC DL Channel	SCC Band	SCC Bandwidth	SCC	Rel 8 LTETx Power(dBm)	Rel 10 DL LTE CA TX Power(dBm)
66C	66	20	1	50	100	0	132572	67036	66	20	66838	21.95	21.65
66B	66	10	1	24	50	0	132322	67036	66	10	66987	21.92	21.49
66A-5A	66	20	1	50	15	0	132322	66451	5	10	2525	21.96	21.58
66A-12A	66	20	1	50	15	0	132322	66451	12	10	5095	21.96	21.55
66A-71A	66	20	1	50	15	0	132322	66451	71	20	68786	21.96	21.56
66A-66A	66	20	1	50	100	0	132572	67036	66	20	66838	21.95	21.54

8.6 WIFI

8.6.1 2.4G WIFI (Normal Power)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	21.51	21.80	Yes
		6	2437	21.73	21.80	Yes
		11	2462	21.72	21.80	Yes
	802.11g	1	2412	19.53	19.80	No
		6	2437	19.75	19.80	No
		11	2462	19.68	19.80	No
	802.11n(HT20)	1	2412	18.48	18.80	No
		6	2437	18.60	18.80	No
		11	2462	18.77	18.80	No
	802.11n(HT40)	3	2422	18.78	18.80	No
		6	2437	18.38	18.80	No
		9	2452	18.77	18.80	No

8.6.2 2.4G WIFI (Reduced Power)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	18.76	18.80	Yes
		6	2437	18.69	18.80	Yes
		11	2462	18.67	18.80	Yes
	802.11g	1	2412	17.75	17.80	No
		6	2437	17.67	17.80	No
		11	2462	17.69	17.80	No
	802.11n(HT20)	1	2412	16.84	17.00	No
		6	2437	16.99	17.00	No
		11	2462	16.95	17.00	No
	802.11n(HT40)	3	2422	16.77	17.00	No
		6	2437	16.40	17.00	No
		9	2452	16.47	17.00	No

8.6.3 5G WIFI (Normal Power)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	19.03	19.50	No
		40	5200	19.30	19.50	No
		48	5240	19.13	19.50	No
	802.11n(HT20)	36	5180	19.11	19.50	No

		44	5220	19.14	19.50	No
		48	5240	19.04	19.50	No
	802.11n(HT40)	38	5190	17.08	17.50	No
		46	5230	17.10	17.50	No
	802.11ac(VHT20)	36	5180	18.07	18.50	No
		40	5200	18.09	18.50	No
		48	5240	18.23	18.50	No
	802.11ac(VHT40)	38	5190	18.12	18.50	No
		46	5230	18.25	18.50	No
	802.11ac(VHT80)	42	5210	17.21	17.50	No
5.3 (5.25~5.35)	802.11a	52	5260	19.30	19.50	Yes
		60	5300	19.36	19.50	Yes
		64	5320	19.32	19.50	Yes
	802.11n(HT20)	52	5260	19.13	19.50	No
		60	5300	19.11	19.50	No
		64	5320	19.14	19.50	No
	802.11n(HT40)	54	5270	17.07	17.50	No
		62	5310	17.08	17.50	No
	802.11ac(VHT20)	52	5260	18.21	18.50	No
		60	5300	18.24	18.50	No
		64	5320	18.04	18.50	No
	802.11ac(VHT40)	54	5270	18.15	18.50	No
		62	5310	18.06	18.50	No
	802.11ac(VHT80)	58	5290	17.23	17.50	No
5.6 (5.47~5.725)	802.11a	100	5500	19.69	20.00	Yes
		116	5580	19.93	20.00	Yes
		120	5600	19.88	20.00	Yes
		140	5700	19.81	20.00	Yes
		144	5720	19.80	20.00	Yes
	802.11n(HT20)	100	5500	19.23	19.50	No
		116	5580	19.32	19.50	No
		140	5700	19.26	19.50	No
		144	5720	19.19	19.50	No
	802.11n(HT40)	102	5510	17.22	17.50	No
		118	5590	17.38	17.50	No
		134	5670	17.34	17.50	No
		142	5710	17.21	17.50	No
	802.11ac(VHT20)	100	5500	18.32	18.50	No
		116	5580	18.34	18.50	No
		140	5700	18.28	18.50	No
		144	5720	18.31	18.50	No
	802.11ac(VHT40)	102	5510	18.33	18.50	No

		118	5590	18.26	18.50	No
		134	5670	18.29	18.50	No
		142	5710	18.27	18.50	No
	802.11ac(VHT80)	106	5530	17.24	17.50	No
		122	5610	17.22	17.50	No
		138	5690	17.35	17.50	No
5.8 (5.725~5.850)	802.11a	149	5745	19.90	20.00	Yes
		157	5785	19.84	20.00	Yes
		165	5825	19.89	20.00	Yes
	802.11n(HT20)	149	5745	19.28	19.50	No
		157	5785	19.26	19.50	No
		165	5825	19.33	19.50	No
	802.11n(HT40)	151	5755	17.26	17.50	No
		159	5795	17.39	17.50	No
	802.11ac(VHT20)	149	5745	18.32	18.50	No
		157	5785	18.26	18.50	No
		165	5825	18.41	18.50	No
	802.11ac(VHT40)	151	5755	18.35	18.50	No
		159	5795	18.38	18.50	No
	802.11ac(VHT80)	155	5775	17.33	17.5	No

8.6.4 5G WIFI (Reduced Power)

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	14.28	15.00	No
		40	5200	14.34	15.00	No
		48	5240	14.12	15.00	No
	802.11n(HT20)	36	5180	14.36	15.00	No
		44	5220	14.41	15.00	No
		48	5240	14.59	15.00	No
	802.11n(HT40)	38	5190	14.22	15.00	No
		46	5230	14.34	15.00	No
	802.11ac(VHT20)	36	5180	14.58	15.00	No
		40	5200	14.21	15.00	No
		48	5240	14.46	15.00	No
	802.11ac(VHT40)	38	5190	14.38	15.00	No
		46	5230	14.49	15.00	No
	802.11ac(VHT80)	42	5210	14.40	15.00	No
5.3 (5.25~5.35)	802.11a	52	5260	14.42	15.00	No
		60	5300	14.51	15.00	No
		64	5320	14.54	15.00	No

	802.11n(HT20)	52	5260	14.37	15.00	No
		60	5300	14.51	15.00	No
		64	5320	14.49	15.00	No
	802.11n(HT40)	54	5270	14.49	15.00	No
		62	5310	14.53	15.00	No
	802.11ac(VHT20)	52	5260	14.62	15.00	No
		60	5300	14.36	15.00	No
		64	5320	14.58	15.00	No
	802.11ac(VHT40)	54	5270	14.51	15.00	No
		62	5310	14.54	15.00	No
	802.11ac(VHT80)	58	5290	14.87	15.00	Yes
5.6 (5.47~5.725)	802.11a	100	5500	14.52	15.00	No
		116	5580	14.28	15.00	No
		120	5600	14.27	15.00	No
		140	5700	14.49	15.00	No
		144	5720	14.32	15.00	No
	802.11n(HT20)	100	5500	14.41	15.00	No
		116	5580	14.55	15.00	No
		140	5700	14.67	15.00	No
		144	5720	14.24	15.00	No
	802.11n(HT40)	102	5510	14.42	15.00	No
		118	5590	14.29	15.00	No
		134	5670	13.98	15.00	No
		142	5710	14.26	15.00	No
	802.11ac(VHT20)	100	5500	14.57	15.00	No
		116	5580	14.13	15.00	No
		140	5700	14.17	15.00	No
		144	5720	14.19	15.00	No
	802.11ac(VHT40)	102	5510	14.21	15.00	No
		118	5590	14.28	15.00	No
		134	5670	14.13	15.00	No
		142	5710	14.32	15.00	No
	802.11ac(VHT80)	106	5530	14.86	15.00	Yes
		122	5610	14.74	15.00	Yes
		138	5690	14.74	15.00	Yes
5.8 (5.725~5.850)	802.11a	149	5745	14.32	15.00	No
		157	5785	14.28	15.00	No
		165	5825	14.11	15.00	No
	802.11n(HT20)	149	5745	14.09	15.00	No
		157	5785	14.23	15.00	No
		165	5825	14.28	15.00	No
	802.11n(HT40)	151	5755	14.37	15.00	No

		159	5795	14.21	15.00	No
	802.11ac(VHT20)	149	5745	14.05	15.00	No
		157	5785	14.08	15.00	No
		165	5825	14.19	15.00	No
	802.11ac(VHT40)	151	5755	14.42	15.00	No
		159	5795	14.41	15.00	No
	802.11ac(VHT80)	155	5775	14.72	15.00	Yes

8.7 Bluetooth

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Average Power (dBm)	9.48	9.75	9.14	9.38	9.02	8.56
Tune-Up Limit (dBm)	10			10		
Mode	8-DPSK			BLE		
Channel	0	39	78	0	19	39
Frequency (MHz)	2402	2441	2480	2402	2440	2480
Average Power (dBm)	9.32	8.97	8.55	-4.94	-3.13	-4.4
Tune-Up Limit (dBm)	10			-3		

8.8 Power Reduction List

Test Level Table

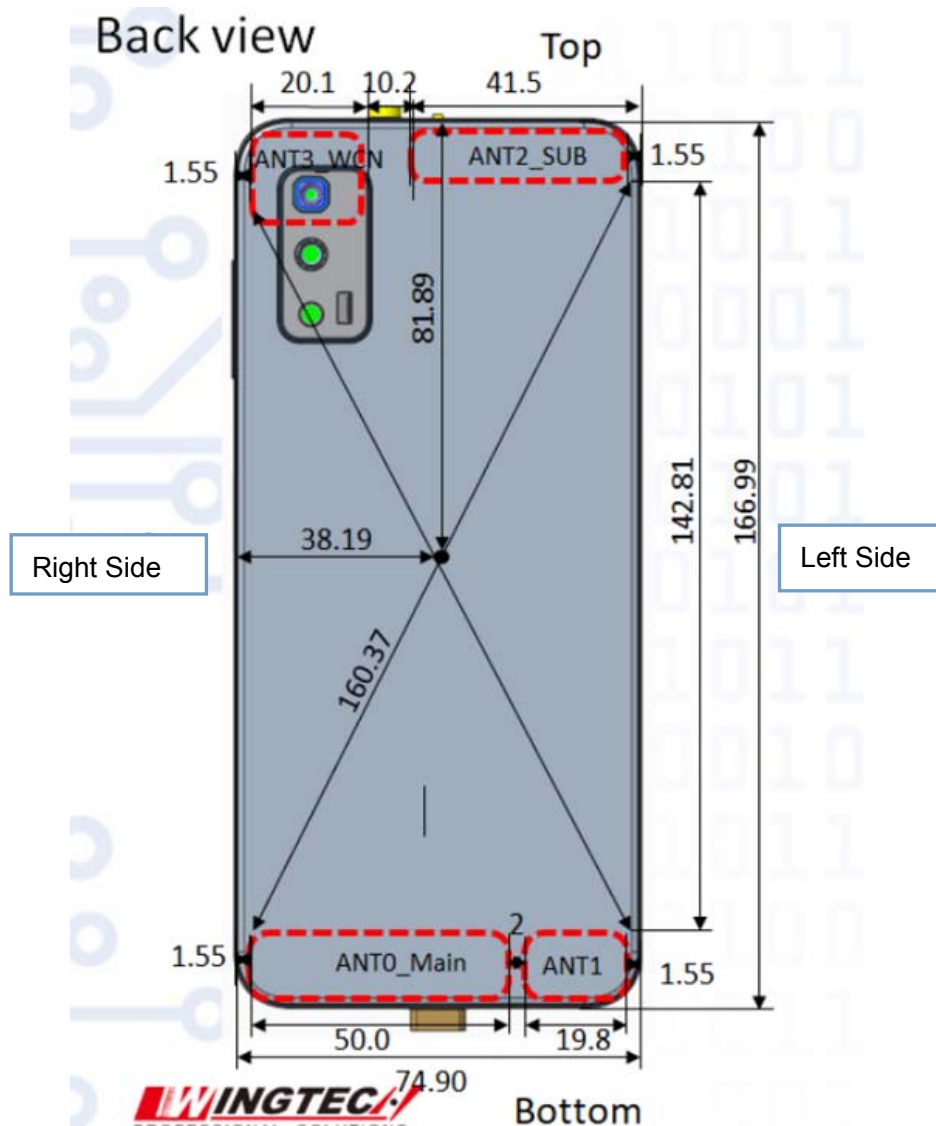
Reduced level	Receiver state	Transmitting
		conditions
Level A1	Sensor deactive (Head scenario+ Body scenario)	WWAN + WLAN 2.4G or WWAN+WLAN 5G +BT
Level B1	Sensor active (Body scenario)	WWAN + WLAN 2.4G or WWAN+WLAN 5G +BT

Power Table

Mode	Test Mode	Head			Body			Body		
	Receiver state	Sensor off			Sensor off			Sensor on		
	Full Power	Standalone	Simultaneous transmission		Standalone	Simultaneous transmission		Standalone	Simultaneous transmission	
			+2.4G	+5G		+2.4G	+5G		+2.4G	+5G
			WLAN	WLAN		WLAN	WLAN		WLAN	WLAN
GSM 850	33.50	33.50	18.80	15.00	33.50	21.80	20.00	27.00	21.80	20.00
GPRS850 1 Tx Slot	33.50	33.50	18.80	15.00	33.50	21.80	20.00	27.00	21.80	20.00
GPRS850 2 Tx Slots	32.50	32.50	18.80	15.00	32.50	21.80	20.00	26.00	21.80	20.00
GPRS850 3 Tx Slots	30.50	30.50	18.80	15.00	30.50	21.80	20.00	24.00	21.80	20.00
GPRS850 4 Tx Slots	29.50	29.50	18.80	15.00	29.50	21.80	20.00	23.00	21.80	20.00
EGPRS850 1 Tx Slot	27.00	27.00	18.80	15.00	27.00	21.80	20.00	23.50	21.80	20.00
EGPRS850 2 Tx Slots	26.00	26.00	18.80	15.00	26.00	21.80	20.00	22.50	21.80	20.00
EGPRS850 3 Tx Slots	24.50	24.50	18.80	15.00	24.50	21.80	20.00	20.50	21.80	20.00
EGPRS850 4 Tx Slots	22.50	22.50	18.80	15.00	22.50	21.80	20.00	20.00	21.80	20.00
GSM 1900	30.00	30.00	18.80	15.00	30.00	21.80	20.00	/	21.80	20.00
GPRS1900 1 Tx Slot	30.00	30.00	18.80	15.00	30.00	21.80	20.00	/	21.80	20.00
GPRS1900 2 Tx Slots	29.00	29.00	18.80	15.00	29.00	21.80	20.00	/	21.80	20.00
GPRS1900 3 Tx Slots	27.00	27.00	18.80	15.00	27.00	21.80	20.00	/	21.80	20.00
GPRS1900 4 Tx Slots	26.00	26.00	18.80	15.00	26.00	21.80	20.00	/	21.80	20.00
EGPRS1900 1 Tx Slot	25.50	25.50	18.80	15.00	25.50	21.80	20.00	/	21.80	20.00
EGPRS1900 2 Tx Slots	24.50	24.50	18.80	15.00	24.50	21.80	20.00	/	21.80	20.00
EGPRS1900 3 Tx Slots	22.50	22.50	18.80	15.00	22.50	21.80	20.00	/	21.80	20.00
EGPRS1900 4 Tx Slots	21.00	21.00	18.80	15.00	21.00	21.80	20.00	/	21.80	20.00
WCDMA Band2 RMC	24.50	24.50	18.80	15.00	24.50	21.80	20.00	19.50	21.80	20.00
HSDPA Subtest-1	22.00	22.00	18.80	15.00	22.00	21.80	20.00	19.00	21.80	20.00
HSDPA Subtest-2	22.00	22.00	18.80	15.00	22.00	21.80	20.00	19.00	21.80	20.00
HSDPA Subtest-3	22.00	22.00	18.80	15.00	22.00	21.80	20.00	19.00	21.80	20.00
HSDPA Subtest-4	22.00	22.00	18.80	15.00	22.00	21.80	20.00	19.00	21.80	20.00
HSUPA Subtest-1	21.50	21.50	18.80	15.00	21.50	21.80	20.00	18.00	21.80	20.00
HSUPA Subtest-2	21.50	21.50	18.80	15.00	21.50	21.80	20.00	18.00	21.80	20.00

HSUPA Subtest-3	22.00	22.00	18.80	15.00	22.00	21.80	20.00	19.00	21.80	20.00
HSUPA Subtest-4	21.00	21.00	18.80	15.00	21.00	21.80	20.00	17.50	21.80	20.00
HSUPA Subtest-5	22.00	22.00	18.80	15.00	22.00	21.80	20.00	19.00	21.80	20.00
WCDMA Band4 RMC	25.00	25.00	18.80	15.00	25.00	21.80	20.00	22.00	21.80	20.00
HSDPA Subtest-1	22.00	22.00	18.80	15.00	22.00	21.80	20.00	21.50	21.80	20.00
HSDPA Subtest-2	22.00	22.00	18.80	15.00	22.00	21.80	20.00	21.50	21.80	20.00
HSDPA Subtest-3	22.00	22.00	18.80	15.00	22.00	21.80	20.00	21.50	21.80	20.00
HSDPA Subtest-4	22.00	22.00	18.80	15.00	22.00	21.80	20.00	21.50	21.80	20.00
HSUPA Subtest-1	21.50	21.50	18.80	15.00	21.50	21.80	20.00	20.50	21.80	20.00
HSUPA Subtest-2	21.50	21.50	18.80	15.00	21.50	21.80	20.00	20.50	21.80	20.00
HSUPA Subtest-3	22.00	22.00	18.80	15.00	22.00	21.80	20.00	21.50	21.80	20.00
HSUPA Subtest-4	21.00	21.00	18.80	15.00	21.00	21.80	20.00	20.00	21.80	20.00
HSUPA Subtest-5	22.00	22.00	18.80	15.00	22.00	21.80	20.00	21.50	21.80	20.00
WCDMA Band5 RMC	25.00	25.00	18.80	15.00	25.00	21.80	20.00	/	21.80	20.00
HSDPA Subtest-1	22.00	22.00	18.80	15.00	22.00	21.80	20.00	/	21.80	20.00
HSDPA Subtest-2	22.00	22.00	18.80	15.00	22.00	21.80	20.00	/	21.80	20.00
HSDPA Subtest-3	22.00	22.00	18.80	15.00	22.00	21.80	20.00	/	21.80	20.00
HSDPA Subtest-4	22.00	22.00	18.80	15.00	22.00	21.80	20.00	/	21.80	20.00
HSUPA Subtest-1	21.50	21.50	18.80	15.00	21.50	21.80	20.00	/	21.80	20.00
HSUPA Subtest-2	21.50	21.50	18.80	15.00	21.50	21.80	20.00	/	21.80	20.00
HSUPA Subtest-3	22.00	22.00	18.80	15.00	22.00	21.80	20.00	/	21.80	20.00
HSUPA Subtest-4	21.00	21.00	18.80	15.00	21.00	21.80	20.00	/	21.80	20.00
HSUPA Subtest-5	22.00	22.00	18.80	15.00	22.00	21.80	20.00	/	21.80	20.00
LTE Band 12	25.00	25.00	18.80	15.00	25.00	21.80	20.00	/	21.80	20.00
LTE Band 25	25.00	25.00	18.80	15.00	25.00	21.80	20.00	20.50	21.80	20.00
LTE Band 26	25.00	25.00	18.80	15.00	25.00	21.80	20.00	24.00	21.80	20.00
LTE Band 41_PC3	25.00	25.00	18.80	15.00	25.00	21.80	20.00	/	21.80	20.00
LTE Band 41_PC2	28.00	28.00	18.80	15.00	28.00	21.80	20.00	/	21.80	20.00
LTE Band 66	25.00	25.00	18.80	15.00	25.00	21.80	20.00	22.00	21.80	20.00
LTE Band 71	25.00	25.00	18.80	15.00	25.00	21.80	20.00	/	21.80	20.00

9 TEST EXCLUSION CONSIDERATION



Antenna	Support Bands
ANT 0	GSM B5 TRX
	WCDMA B5 TRX
	LTE 12/26/41/71 TRX
ANT 1	GSM B2 TRX
	WCDMA B2/4 TRX
	LTE B25/66 TRX
ANT 2	GSM B2/5 DRX
	WCDMA B2/4/5 DRX
	LTE 12/25/26/41/66/71 DRX
ANT 3	WLAN 2.4G/WLAN 5G/BT

Antenna	Front Side (mm)	Back Side (mm)	Left Edge (mm)	Right Edge (mm)	Top Edge (mm)	Bottom Edge (mm)
ANT0	<5	<5	23.35	<5	148.61	<5
ANT1	<5	<5	<5	53.55	148.61	<5
ANT3	<5	<5	51.70	<5	<5	147.06

9.1 SAR Test Exclusion Consideration Table

According with FCC KDB 447498 D01, Appendix A, <SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm> Table, this Device SAR test configurations consider as following :

ANT0

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
GSM 850	Distance to User			<5mm	<5mm	23.35mm	<5mm	148.61mm	<5mm
	Voice	33.50	2238.72	Yes	Yes	Yes	Yes	No	Yes
	Data	33.50	2238.72	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 5	Distance to User			<5mm	<5mm	23.35mm	<5mm	148.61mm	<5mm
	RMC	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 12	Distance to User			<5mm	<5mm	23.35mm	<5mm	148.61mm	<5mm
	QPSK	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 26	Distance to User			<5mm	<5mm	23.35mm	<5mm	148.61mm	<5mm
	QPSK	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 41	Distance to User			<5mm	<5mm	23.35mm	<5mm	148.61mm	<5mm
	QPSK	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 71	Distance to User			<5mm	<5mm	23.35mm	<5mm	148.61mm	<5mm
	QPSK	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes

ANT1

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/ Back	Left Edge	Right Edge	Top Edge	Bottom Edge
GSM 1900	Distance to User			<5mm	<5mm	<5mm	53.55mm	148.61mm	<5mm
	Voice	30.00	1000	Yes	Yes	Yes	No	No	Yes
	Data	30.00	1000	Yes	Yes	Yes	No	No	Yes
WCDMA Band 2	Distance to User			<5mm	<5mm	<5mm	53.55mm	148.61mm	<5mm
	RMC	24.50	281.84	Yes	Yes	Yes	No	No	Yes
WCDMA Band 4	Distance to User			<5mm	<5mm	<5mm	53.55mm	148.61mm	<5mm
	QPSK	25.00	316.23	Yes	Yes	Yes	No	No	Yes
LTE Band 25	Distance to User			<5mm	<5mm	<5mm	53.55mm	148.61mm	<5mm
	QPSK	25.00	316.23	Yes	Yes	Yes	No	No	Yes
LTE Band 66	Distance to User			<5mm	<5mm	<5mm	53.55mm	148.61mm	<5mm
	QPSK	25.00	316.23	Yes	Yes	Yes	No	No	Yes

ANT3

Band	Mode	Max. Peak Power		Test Position Configurations					
		dBm	mW	Head	Front/Back	Left Edge	Right Edge	Top Edge	Bottom Edge
WLAN 2.4 G	Distance to User			<5mm	<5mm	51.7mm	<5mm	<5mm	147.06mm
	802.11b	21.80	151.36	Yes	Yes	No	Yes	Yes	No
	802.11g	19.80	95.50	No	No	No	No	No	No
	802.11n(HT20)	18.80	95.50	No	No	No	No	No	No
WLAN 5.2 G	Distance to User			<5mm	<5mm	51.7mm	<5mm	<5mm	147.06mm
	802.11a	19.50	89.13	No	No	No	No	No	No
	802.11n(HT20)	19.50	89.13	No	No	No	No	No	No
	802.11n(HT40)	17.50	56.23	No	No	No	No	No	No
	802.11ac(VHT20)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT40)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT80)	17.50	56.23	No	No	No	No	No	No
WLAN 5.3 G	Distance to User			<5mm	<5mm	51.7mm	<5mm	<5mm	147.06mm
	802.11a	19.50	89.13	Yes	Yes	No	Yes	Yes	No
	802.11n(HT20)	19.50	89.13	No	No	No	No	No	No
	802.11n(HT40)	17.50	56.23	No	No	No	No	No	No
	802.11ac(VHT20)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT40)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT80)	17.50	56.23	No	No	No	No	No	No
WLAN 5.6 G	Distance to User			<5mm	<5mm	50.36mm	<5mm	<5mm	147.06mm
	802.11a	20.00	100.00	Yes	Yes	No	Yes	Yes	No
	802.11n(HT20)	19.50	89.13	No	No	No	No	No	No
	802.11n(HT40)	17.50	56.23	No	No	No	No	No	No
	802.11ac(VHT20)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT40)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT80)	17.50	56.23	No	No	No	No	No	No
WLAN 5.8 G	Distance to User			<5mm	<5mm	50.36mm	<5mm	<5mm	147.06mm
	802.11a	20.00	100.00	Yes	Yes	No	Yes	Yes	No
	802.11n(HT20)	19.50	89.13	No	No	No	No	No	No
	802.11n(HT40)	17.50	56.23	No	No	No	No	No	No
	802.11ac(VHT20)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT40)	18.50	70.79	No	No	No	No	No	No
	802.11ac(VHT80)	17.50	56.23	No	No	No	No	No	No
Bluetooth	Distance to User			<5mm	<5mm	50.36mm	<5mm	<5mm	147.06mm
	BR/EDR	10.00	10.00	Yes	Yes	No	Yes	Yes	No
	BLE	-3.00	0.50	No	No	No	No	No	No

Note:

- Maximum power is the source-based time-average power and represents the maximum RF output power including tune-up tolerance among production units
- Per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- Per KDB 447498 D01, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is <

5mm, 5mm is used to determine SAR exclusion threshold

4. Per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

- a. $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- b. Power and distance are rounded to the nearest mW and mm before calculation
- c. The result is rounded to one decimal place for comparison
- d. For < 50 mm distance, we just calculate mW of the exclusion threshold value (3.0) to do compare.

This formula is $[3.0] / [\sqrt{f(\text{GHz})}] \cdot [(\text{min. test separation distance, mm})] = \text{exclusion threshold of mW}$.

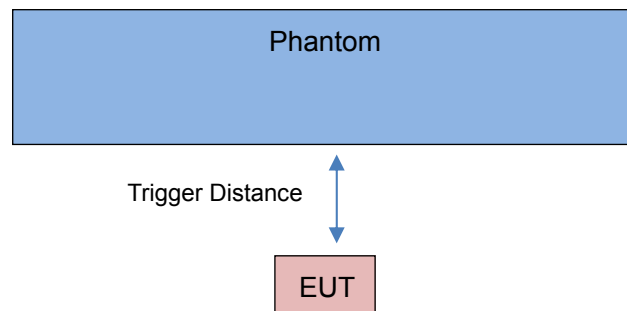
5. Per KDB 447498 D01, at 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following
 - a. $[\text{Threshold at 50 mm in step 1}] + (\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)$ mW, at 100 MHz to 1500 MHz
 - b. $[\text{Threshold at 50 mm in step 1}] + (\text{test separation distance} - 50 \text{ mm}) \cdot 10$ mW at > 1500 MHz and ≤ 6 GHz
6. Per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA/HSUPA/DC-HSDPA output power is $< 0.25\text{dB}$ higher than RMC12.2kbps, or reported SAR with RMC 12.2kbps setting is $\leq 1.2\text{W/kg}$, HSDPA/HSUPA/DC-HSDPA SAR evaluation can be excluded.
7. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.8. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at the lowest data rate
8. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
 - a. When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.
 - b. 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 $\leq 1.2 \text{ W/kg}$.
9. Per KDB 248227 D01 SAR is not required for the following U-NII-1 and U-NII-2A bands conditions.
 - a. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is $\leq 1.2 \text{ W/kg}$, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
 - b. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is $\leq 1.2 \text{ W/kg}$, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.

10 PROXIMITY SENSOR TRIGGERING TEST

10.1 Procedures for determining proximity sensor distance

Proximity sensor triggering distance testing was performed, EUT moving further away from the phantom and EUT moving toward the phantom were both assessed, and the shortest triggering distances were reported and used for SAR assessment.

10.1.1 proximity sensor channel-1

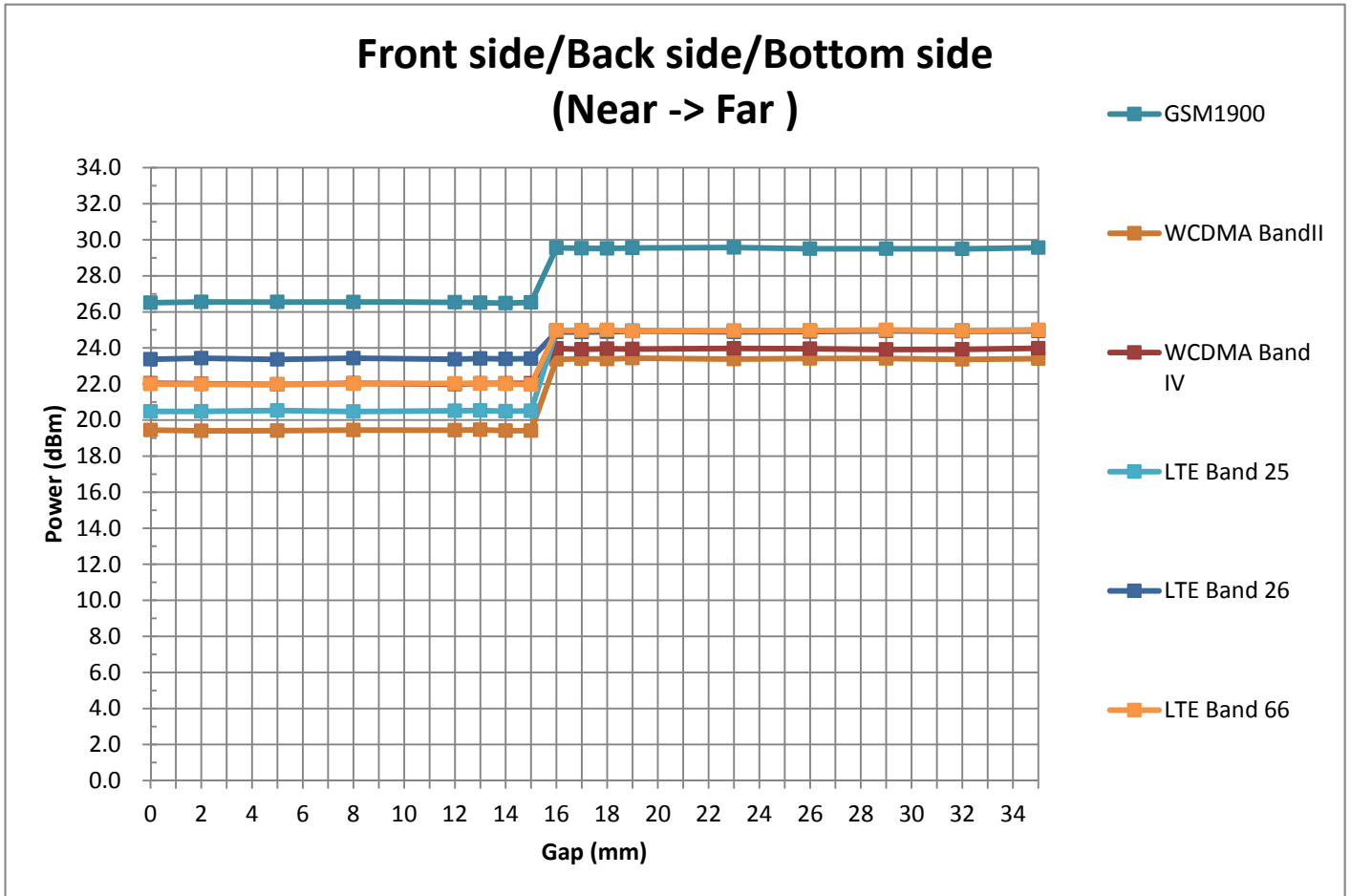


Distance in mm	9	10	11	12	13	14	15	16	17
Front Side	On	On	On	On	On	On	On	Off	Off
Bottom Side	On	On	On	On	On	On	On	Off	Off
Back Side	On	On	On	On	On	On	On	Off	Off

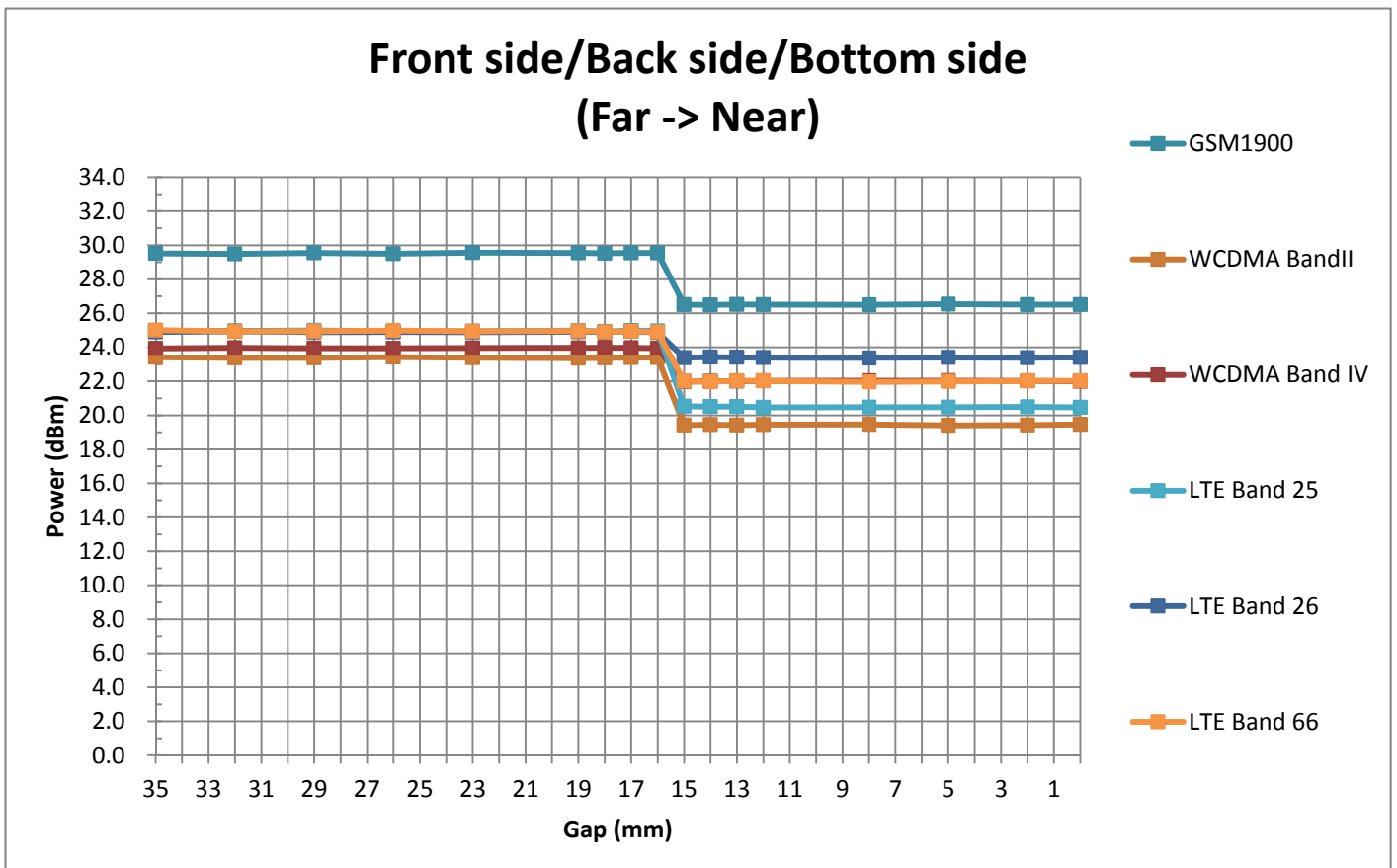
Note: Power reduction is only applicable for WWAN Ant 0 (LTE B26) and WWAN Ant 1 (GSM1900 WCDMA B2/4 LTE B25/66)

Band	Test Position	Sensor Trigger Distance Range (DUT to Phantom)	Max Power Level(dBm)	Power Level
GSM1900	Front side/Back side/Bottom side	$0\text{mm} \leq \text{distance} \leq 15\text{mm}$	26.48	Level B1
		$15\text{mm} < \text{distance}$	29.49	Level A1
WCDMA Band II	Front side/Back side/Bottom side	$0\text{mm} \leq \text{distance} \leq 15\text{mm}$	19.40	Level B1
		$15\text{mm} < \text{distance}$	23.35	Level A1
WCDMA Band IV	Front side/Back side/Bottom side	$0\text{mm} \leq \text{distance} \leq 15\text{mm}$	21.97	Level B1
		$15\text{mm} < \text{distance}$	23.91	Level A1
LTE Band25	Front side/Back side/Bottom side	$0\text{mm} \leq \text{distance} \leq 15\text{mm}$	20.46	Level B1
		$15\text{mm} < \text{distance}$	24.97	Level A1
LTE Band26	Front side/Back side/Bottom side	$0\text{mm} \leq \text{distance} \leq 15\text{mm}$	23.35	Level B1
		$15\text{mm} < \text{distance}$	24.87	Level A1
LTE Band66	Front side/Back side/Bottom side	$0\text{mm} \leq \text{distance} \leq 15\text{mm}$	21.96	Level B1
		$15\text{mm} < \text{distance}$	24.93	Level A1

DUT moving toward the flat phantom:



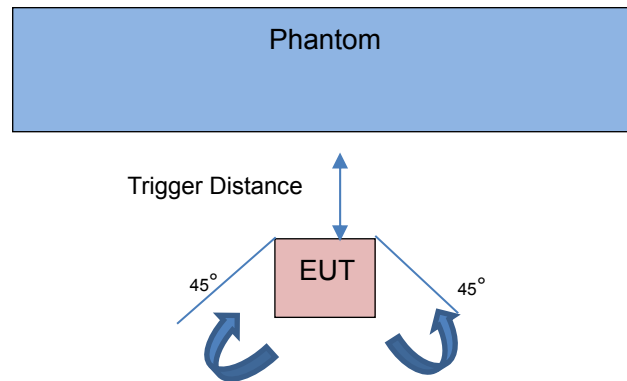
DUT moving away from the flat phantom:



10.2 Procedures for determining EUT tilt angle influences to proximity sensor triggering

The influence of EUT tilt angles to proximity sensor channel-1 triggering was determined by positioning each EUT edge that contains a transmitting Ant0 and Ant1, perpendicular to the flat phantom, at 15 mm separation for the front, back and bottom side.

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



For verification of compliance of power reduction scheme, additional SAR test with EUT transmitting at full RF power at a separation of “the triggering distance – 1 mm”

proximity sensor channel-1

EUT Sides	Additional SAR test Distance in mm
Front Side	14
Bottom Side	14
Back Side	14

11 TEST RESULT

11.1 GSM 850

Antenn a	Power Reduction	Sensor State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Mea s. No.
Head														
ANT0	Level A1	N/A	Voice	Right Cheek	0	128	824.2	0.04	0.237	32.95	33.50	1.135	0.269	/
		N/A	GPRS (2slots)	Right Cheek	0	128	824.2	-0.03	0.248	31.99	32.50	1.125	0.279	1#
		N/A		Right Tilted	0	128	824.2	0.04	0.090	31.99	32.50	1.125	0.101	/
		N/A		Left Cheek	0	128	824.2	-0.07	0.205	31.99	32.50	1.125	0.231	/
		N/A		Left Tilted	0	128	824.2	-0.04	0.091	31.99	32.50	1.125	0.102	/
Body														
ANT0	Level A1	N/A	Voice	Back	10	128	824.2	0.16	0.363	32.95	33.50	1.135	0.412	/
		N/A	GPRS (2slots)	Front	10	128	824.2	0.07	0.269	31.99	32.50	1.125	0.303	/
		N/A		Back	10	128	824.2	-0.09	0.377	31.99	32.50	1.125	0.424	2#
		N/A		Left Side	10	128	824.2	-0.12	0.310	31.99	32.50	1.125	0.349	/
		N/A		Right Side	10	128	824.2	-0.16	0.183	31.99	32.50	1.125	0.206	/
		N/A		Bottom Side	10	128	824.2	-0.15	0.311	31.99	32.50	1.125	0.350	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

11.2 GSM 1900

Antenna	Power Reduction	Sensor State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
ANT1	Level A1	N/A	Voice	Right Cheek	0	661	1880.0	-0.03	0.246	29.47	30.00	1.130	0.278	/
		N/A	GPRS (4slots)	Right Cheek	0	810	1909.8	-0.01	0.273	25.89	26.00	1.026	0.280	3#
		N/A		Right Tilted	0	810	1909.8	0.06	0.122	25.89	26.00	1.026	0.125	/
		N/A		Left Cheek	0	810	1909.8	-0.11	0.178	25.89	26.00	1.026	0.183	/
		N/A		Left Tilted	0	810	1909.8	-0.12	0.124	25.89	26.00	1.026	0.127	/
Body														
ANT1	Level A1	N/A	Voice	Back	10	661	1880.0	-0.01	0.203	26.48	27.00	1.127	0.229	/
		N/A	GPRS (4slots)	Front	10	661	1880.0	0.02	0.146	22.76	23.00	1.057	0.154	/
		N/A		Back	10	661	1880.0	-0.01	0.228	22.76	23.00	1.057	0.241	4#
		N/A		Left Side	10	661	1880.0	-0.01	0.117	22.76	23.00	1.057	0.124	/
		N/A		Bottom Side	10	661	1880.0	-0.14	0.149	22.76	23.00	1.057	0.157	/
P-sensor off														
ANT1	Level B1	N/A	Voice	Back	14	661	1880.0	-0.16	0.293	29.47	30.00	1.130	0.331	/
		N/A	GPRS (4slots)	Front	14	810	1909.8	-0.19	0.181	25.89	26.00	1.026	0.186	/
		N/A		Back	14	810	1909.8	-0.06	0.316	25.89	26.00	1.026	0.324	5#
		N/A		Left Side	14	810	1909.8	-0.02	0.184	25.89	26.00	1.026	0.189	/
		N/A		Bottom Side	14	810	1909.8	-0.09	0.239	25.89	26.00	1.026	0.245	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

11.3WCDMA Band 2

Antenna	Power Reduction	Sensor State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
ANT1	Level A1	N/A	RMC	Right Cheek	0	9538	1907.6	-0.05	0.317	23.35	24.50	1.303	0.413	/
		N/A		Right Tilted	0	9538	1907.6	0.08	0.195	23.35	24.50	1.303	0.254	/
		N/A		Left Cheek	0	9538	1907.6	0.12	0.387	23.35	24.50	1.303	0.504	6#
		N/A		Left Tilted	0	9538	1907.6	0.11	0.237	23.35	24.50	1.303	0.309	/
Body														
ANT1	Level A1	N/A	RMC	Front	10	9400	1880.0	0.01	0.168	19.40	19.50	1.023	0.172	/
		N/A		Back	10	9400	1880.0	0.02	0.242	19.40	19.50	1.023	0.248	7#
		N/A		Left Side	10	9400	1880.0	0.08	0.133	19.40	19.50	1.023	0.136	/
		N/A		Bottom Side	10	9400	1880.0	-0.11	0.197	19.40	19.50	1.023	0.202	/
P-sensor off														
ANT1	Level B1	N/A	RMC	Front	14	9538	1907.6	0.05	0.172	23.35	24.50	1.303	0.224	/
		N/A		Back	14	9538	1907.6	0.03	0.854	23.35	24.50	1.303	1.113	8#
		N/A		Back	14	9262	1852.4	-0.08	0.821	23.22	24.50	1.343	1.102	/
		N/A		Back	14	9400	1880.0	0.10	0.831	23.31	24.50	1.315	1.093	/
		N/A		Left Side	14	9538	1907.6	0.00	0.137	23.35	24.50	1.303	0.179	/
		N/A		Bottom Side	14	9538	1907.6	0.02	0.165	23.35	24.50	1.303	0.215	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

11.4WCDMA Band 4

Antenna	Power Reduction	Sensor State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
ANT1	Level A1	N/A	RMC	Right Cheek	0	1412	1732.4	0.02	0.287	23.91	25.00	1.285	0.369	/
		N/A		Right Tilted	0	1412	1732.4	0.08	0.254	23.91	25.00	1.285	0.326	/
		N/A		Left Cheek	0	1412	1732.4	0.08	0.312	23.91	25.00	1.285	0.401	9#
		N/A		Left Tilted	0	1412	1732.4	-0.02	0.220	23.91	25.00	1.285	0.283	/
Body														
ANT1	Level A1	N/A	RMC	Front	10	1513	1752.6	0.01	0.424	21.97	22.00	1.007	0.427	/
		N/A		Back	10	1513	1752.6	0.02	0.579	21.97	22.00	1.007	0.583	10#
		N/A		Left Side	10	1513	1752.6	0.15	0.392	21.97	22.00	1.007	0.395	/
		N/A		Bottom Side	10	1513	1752.6	0.16	0.467	21.97	22.00	1.007	0.470	/
P-sensor off														
ANT1	Level B1	N/A	RMC	Front	14	1412	1732.4	0.03	0.250	23.91	25.00	1.285	0.321	/
		N/A		Back	14	1412	1732.4	0.04	0.590	23.91	25.00	1.285	0.758	11#
		N/A		Left Side	14	1412	1732.4	-0.04	0.423	23.91	25.00	1.285	0.544	/
		N/A		Bottom Side	14	1412	1732.4	0.18	0.266	23.91	25.00	1.285	0.342	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

11.5WCDMA Band 5

Antenna	Power Reduction	Sensor State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
ANT0	Level A1	N/A	RMC	Right Cheek	0	4233	846.6	0.10	0.229	23.78	25.00	1.324	0.303	12#
		N/A		Right Tilted	0	4233	846.6	0.02	0.073	23.78	25.00	1.324	0.096	/
		N/A		Left Cheek	0	4233	846.6	0.06	0.193	23.78	25.00	1.324	0.256	/
		N/A		Left Tilted	0	4233	846.6	0.09	0.072	23.78	25.00	1.324	0.095	/
Body														
ANT0	Level A1	N/A	RMC	Front	10	4233	846.6	-0.18	0.263	23.78	25.00	1.324	0.348	/
		N/A		Back	10	4233	846.6	-0.03	0.437	23.78	25.00	1.324	0.579	13#
		N/A		Left Side	10	4233	846.6	0.02	0.132	23.78	25.00	1.324	0.175	/
		N/A		Right Side	10	4233	846.6	0.12	0.228	23.78	25.00	1.324	0.302	/
		N/A		Bottom Side	10	4233	846.6	-0.01	0.302	23.78	25.00	1.324	0.400	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

11.6LTE Band 12 (10MHz Bandwidth)

Antenna	Power Reduction	Sensor State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
ANT0	Level A1	N/A	QPSK	Right Cheek	0	23095	707.5	1	High	-0.09	0.246	24.82	25.00	1.042	0.256	14#
		N/A			0	23095	707.5	25	Mid	0.16	0.195	23.69	24.00	1.074	0.209	/
		N/A		Right Tilted	0	23095	707.5	1	High	0.07	0.122	24.82	25.00	1.042	0.127	/
		N/A			0	23095	707.5	25	Mid	0.12	0.097	23.69	24.00	1.074	0.104	/
		N/A		Left Cheek	0	23095	707.5	1	High	0.08	0.232	24.82	25.00	1.042	0.242	/
		N/A			0	23095	707.5	25	Mid	-0.16	0.179	23.69	24.00	1.074	0.192	/
		N/A		Left Tilted	0	23095	707.5	1	High	-0.18	0.095	24.82	25.00	1.042	0.099	/
		N/A			0	23095	707.5	25	Mid	-0.15	0.077	23.69	24.00	1.074	0.082	/
Body																
ANT0	Level A1	N/A	QPSK	Front	10	23095	707.5	1	High	-0.07	0.281	24.82	25.00	1.042	0.293	/
		N/A			10	23095	707.5	25	Mid	-0.04	0.218	23.69	24.00	1.074	0.234	/
		N/A		Back	10	23095	707.5	1	High	0.06	0.368	24.82	25.00	1.042	0.384	/
		N/A			10	23095	707.5	25	Mid	0.04	0.293	23.69	24.00	1.074	0.315	/
		N/A		Left Side	10	23095	707.5	1	High	-0.07	0.251	24.82	25.00	1.042	0.262	/
		N/A			10	23095	707.5	25	Mid	-0.04	0.200	23.69	24.00	1.074	0.215	/
		N/A		Right Side	10	23095	707.5	1	High	-0.02	0.412	24.82	25.00	1.042	0.429	15#
		N/A			10	23095	707.5	25	Mid	-0.11	0.350	23.69	24.00	1.074	0.376	/
		N/A		Bottom Side	10	23095	707.5	1	High	-0.12	0.167	24.82	25.00	1.042	0.174	/
		N/A			10	23095	707.5	25	Mid	-0.16	0.129	23.69	24.00	1.074	0.139	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

11.7LTE Band 25 (20MHz Bandwidth)

Antenna	Power Reduction	Sensor State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
ANT1	Level A1	N/A	QPSK	Right Cheek	0	26340	1880	1	Mid	-0.03	0.242	24.97	25.00	1.007	0.244	/
		N/A			0	26340	1880	50	Low	0.01	0.198	23.88	24.00	1.028	0.204	/
		N/A		Right Tilted	0	26340	1880	1	Mid	0.16	0.173	24.97	25.00	1.007	0.174	/
		N/A			0	26340	1880	50	Low	0.07	0.137	23.88	24.00	1.028	0.141	/
		N/A		Left Cheek	0	26340	1880	1	Mid	-0.02	0.279	24.97	25.00	1.007	0.281	16#
		N/A			0	26340	1880	50	Low	0.12	0.213	23.88	25.00	1.294	0.276	/
		N/A		Left Tilted	0	26340	1880	1	Mid	0.03	0.204	24.97	25.00	1.007	0.205	/
		N/A			0	26340	1880	50	Low	-0.01	0.163	23.88	25.00	1.294	0.211	/
Body																
ANT1	Level A1	N/A	QPSK	Front Side	10	26340	1880	1	Mid	-0.04	0.223	20.46	20.50	1.009	0.225	/
		N/A			10	26340	1880	50	Low	0.07	0.169	19.44	19.50	1.014	0.171	/
		N/A		Back Side	10	26340	1880	1	Mid	0.09	0.332	20.46	20.50	1.009	0.335	17#
		N/A			10	26340	1880	50	Low	0.06	0.321	19.44	19.50	1.014	0.325	/
		N/A		Left Side	10	26340	1880	1	Mid	0.12	0.202	20.46	20.50	1.009	0.204	/
		N/A			10	26340	1880	50	Low	0.19	0.165	19.44	19.50	1.014	0.167	/
		N/A		Bottom Side	10	26340	1880	1	Mid	0.08	0.267	20.46	20.50	1.009	0.269	/
		N/A			10	26340	1880	50	Low	-0.18	0.215	19.44	19.50	1.014	0.218	/
P-sensor off																
ANT1	Level B1	N/A	QPSK	Front Side	14	26340	1880	1	Mid	0.19	0.177	24.97	25.00	1.007	0.178	/
		N/A			14	26340	1880	50	Low	0.09	0.139	23.88	24.00	1.028	0.143	/
		N/A		Back Side	14	26340	1880	1	Mid	0.06	0.308	24.97	25.00	1.007	0.310	18#
		N/A			14	26340	1880	50	Low	0.11	0.296	23.88	24.00	1.028	0.304	/
		N/A		Left Side	14	26340	1880	1	Mid	-0.01	0.165	24.97	25.00	1.007	0.166	/
		N/A			14	26340	1880	50	Low	-0.08	0.157	23.88	24.00	1.028	0.161	/
		N/A		Bottom Side	14	26340	1880	1	Mid	0.10	0.179	24.97	25.00	1.007	0.180	/
		N/A			14	26340	1880	50	Low	-0.06	0.181	23.88	24.00	1.028	0.186	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

11.9LTE Band 26 (15MHz Bandwidth)

Antenna	Power Reduction	Sensor State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
ANT0	Level A1	N/A	QPSK	Right Cheek	0	26865	831.5	1	Mid	0.07	0.295	24.67	25.00	1.079	0.318	19#
		N/A			0	26865	831.5	36	Low	0.08	0.233	23.81	24.00	1.045	0.243	/
		N/A		Right Tilted	0	26865	831.5	1	Mid	0.08	0.127	24.67	25.00	1.079	0.137	/
		N/A			0	26865	831.5	36	Low	-0.15	0.100	23.81	24.00	1.045	0.104	/
		N/A		Left Cheek	0	26865	831.5	1	Mid	0.15	0.279	24.67	25.00	1.079	0.301	/
		N/A			0	26865	831.5	36	Low	0.19	0.212	23.81	24.00	1.045	0.221	/
		N/A		Left Tilted	0	26865	831.5	1	Mid	-0.02	0.109	24.67	25.00	1.079	0.118	/
		N/A			0	26865	831.5	36	Low	-0.04	0.087	23.81	24.00	1.045	0.090	/
Body																
ANT0	Level A1	N/A	QPSK	Front Side	10	26865	831.5	1	Mid	0.08	0.295	23.35	24.00	1.161	0.343	/
		N/A			10	26865	831.5	36	Mid	-0.10	0.231	22.40	23.00	1.148	0.265	/
		N/A		Back Side	10	26865	831.5	1	Mid	-0.07	0.463	23.35	24.00	1.161	0.538	20#
		N/A			10	26865	831.5	36	Mid	0.02	0.432	22.40	23.00	1.148	0.496	/
		N/A		Left Side	10	26865	831.5	1	Mid	-0.08	0.172	23.35	24.00	1.161	0.200	/
		N/A			10	26865	831.5	36	Mid	0.08	0.136	22.40	23.00	1.148	0.156	/
		N/A		Right Side	10	26865	831.5	1	Mid	0.02	0.283	23.35	24.00	1.161	0.329	/
		N/A			10	26865	831.5	36	Mid	0.03	0.223	22.40	23.00	1.148	0.256	/
		N/A		Bottom Side	10	26865	831.5	1	Mid	0.11	0.328	23.35	24.00	1.161	0.381	/
		N/A			10	26865	831.5	36	Mid	0.01	0.254	22.40	23.00	1.148	0.292	/
P-sensor off																
ANT0	Level B1	N/A	QPSK	Front Side	14	26865	831.5	1	Mid	0.09	0.183	24.67	25.00	1.079	0.197	/
		N/A			14	26865	831.5	36	Low	-0.04	0.177	23.81	24.00	1.045	0.185	/
		N/A		Back Side	14	26865	831.5	1	Mid	-0.03	0.217	24.67	25.00	1.079	0.234	21#
		N/A			14	26865	831.5	36	Low	0.18	0.209	23.81	24.00	1.045	0.218	/
		N/A		Left Side	14	26865	831.5	1	Mid	0.15	0.156	24.67	25.00	1.079	0.168	/
		N/A			14	26865	831.5	36	Low	-0.19	0.144	23.81	24.00	1.045	0.150	/
		N/A		Right Side	14	26865	831.5	1	Mid	0.03	0.212	24.67	25.00	1.079	0.229	/
		N/A			14	26865	831.5	36	Low	-0.10	0.204	23.81	24.00	1.045	0.213	/
		N/A		Bottom Side	14	26865	831.5	1	Mid	0.10	0.167	24.67	25.00	1.079	0.180	/
		N/A			14	26865	831.5	36	Low	0.12	0.158	23.81	24.00	1.045	0.165	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

11.10 LTE Band 66 (20MHz Bandwidth)

Anten na	Power Reduction	Sensor State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
ANT1	Level A1	N/A	QPSK	Right Cheek	0	132072	1720	1	Mid	0.03	0.258	24.93	25.00	1.016	0.262	/
		N/A			0	132572	1770	50	Low	0.03	0.182	23.85	25.00	1.303	0.237	/
		N/A		Right Tilted	0	132072	1720	1	Mid	0.03	0.241	24.93	25.00	1.016	0.245	/
		N/A			0	132572	1770	50	Low	0.12	0.139	23.85	25.00	1.303	0.181	/
		N/A		Left Cheek	0	132072	1720	1	Mid	0.08	0.278	24.93	25.00	1.016	0.283	22#
		N/A			0	132572	1770	50	Low	-0.08	0.214	23.85	25.00	1.303	0.279	/
		N/A		Left Tilted	0	132072	1720	1	Mid	0.09	0.218	24.93	25.00	1.016	0.222	/
		N/A			0	132572	1770	50	Low	0.12	0.164	23.85	25.00	1.303	0.214	/
Body																
ANT1	Level A1	N/A	QPSK	Front Side	10	132322	1745	1	Mid	0.10	0.284	21.96	22.00	1.009	0.287	/
		N/A			10	132572	1770	50	Low	0.14	0.221	20.90	21.00	1.023	0.226	/
		N/A		Back Side	10	132322	1745	1	Mid	-0.04	0.394	21.96	22.00	1.009	0.398	23#
		N/A			10	132572	1770	50	Low	0.01	0.372	20.90	21.00	1.023	0.381	/
		N/A		Left Side	10	132322	1745	1	Mid	0.15	0.257	21.96	22.00	1.009	0.259	/
		N/A			10	132572	1770	50	Low	-0.09	0.230	20.90	21.00	1.023	0.235	/
		N/A		Right Side	10	132322	1745	1	Mid	0.07	0.141	21.96	22.00	1.009	0.142	/
		N/A			10	132572	1770	50	Low	0.00	0.111	20.90	21.00	1.023	0.114	/
		N/A		Bottom Side	10	132322	1745	1	Mid	0.06	0.353	21.96	22.00	1.009	0.356	/
		N/A			10	132572	1770	50	Low	0.03	0.289	20.90	21.00	1.023	0.296	/
P-sensor off																
ANT1	Level B1	N/A	QPSK	Front Side	14	132072	1720	1	Mid	-0.16	0.286	24.93	25.00	1.016	0.291	/
		N/A			14	132572	1770	50	Low	-0.17	0.241	23.85	24.00	1.035	0.249	/
		N/A		Back Side	14	132072	1720	1	Mid	-0.03	0.321	24.93	25.00	1.016	0.326	24#
		N/A			14	132572	1770	50	Low	-0.16	0.308	23.85	24.00	1.035	0.319	/
		N/A		Left Side	14	132072	1720	1	Mid	-0.02	0.245	24.93	25.00	1.016	0.249	/
		N/A			14	132572	1770	50	Low	0.16	0.231	23.85	24.00	1.035	0.239	/
		N/A		Right Side	14	132072	1720	1	Mid	-0.03	0.227	24.93	25.00	1.016	0.231	/
		N/A			14	132572	1770	50	Low	0.18	0.238	23.85	24.00	1.035	0.246	/
		N/A		Bottom Side	14	132072	1720	1	Mid	-0.06	0.257	24.93	25.00	1.016	0.261	/
		N/A			14	132572	1770	50	Low	-0.12	0.270	23.85	24.00	1.035	0.279	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

11.11 LTE Band 71 (20MHz Bandwidth)

Antenna	Power Reduction	Sensor State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
ANT0	Level A1	N/A	QPSK	Right Cheek	0	133322	683	1	Mid	0.09	0.182	24.15	25.00	1.216	0.221	25#
		N/A			0	133322	683	50	Low	-0.01	0.142	22.94	24.00	1.276	0.181	/
		N/A		Right Tilted	0	133322	683	1	Mid	-0.02	0.082	24.15	25.00	1.216	0.099	/
		N/A			0	133322	683	50	Low	0.03	0.070	22.94	24.00	1.276	0.089	/
		N/A		Left Cheek	0	133322	683	1	Mid	0.01	0.139	24.15	25.00	1.216	0.169	/
		N/A			0	133322	683	50	Low	-0.02	0.118	22.94	24.00	1.276	0.151	/
		N/A		Left Tilted	0	133322	683	1	Mid	-0.03	0.071	24.15	25.00	1.216	0.086	/
		N/A			0	133322	683	50	Low	0.07	0.063	22.94	24.00	1.276	0.080	/
Body																
ANT0	Level A1	N/A	QPSK	Front Side	10	133322	683	1	Mid	0.02	0.179	24.15	25.00	1.216	0.218	/
		N/A			10	133322	683	50	Low	-0.15	0.155	22.94	24.00	1.276	0.198	/
		N/A		Back Side	10	133322	683	1	Mid	-0.05	0.241	24.15	25.00	1.216	0.293	/
		N/A			10	133322	683	50	Low	-0.03	0.210	22.94	24.00	1.276	0.268	/
		N/A		Left Side	10	133322	683	1	Mid	0.09	0.149	24.15	25.00	1.216	0.181	/
		N/A			10	133322	683	50	Low	0.09	0.132	22.94	24.00	1.276	0.168	/
				Right Side	10	133322	683	1	Mid	0.02	0.314	24.15	25.00	1.216	0.382	26#
					10	133322	683	50	Low	-0.11	0.266	22.94	24.00	1.276	0.340	/
		N/A		Bottom Side	10	133322	683	1	Mid	0.11	0.135	24.15	25.00	1.216	0.164	/
		N/A			10	133322	683	50	Low	0.02	0.110	22.94	24.00	1.276	0.140	/

11.12 LTE Band 41_PC3 (20MHz Bandwidth)

Antenna	Power Reduction	Sensor State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
ANT0	Level A1	N/A	QPSK	Right Cheek	0	41490	2680	1	Mid	0.07	0.08	24.73	25.00	1.064	0.084	/
		N/A			0	41490	2680	50	High	0.12	0.062	23.96	24.00	1.009	0.062	/
		N/A		Right Tilted	0	41490	2680	1	Mid	0.08	0.064	24.73	25.00	1.064	0.068	/
		N/A			0	41490	2680	50	High	-0.16	0.053	23.96	24.00	1.009	0.053	/
		N/A		Left Cheek	0	41490	2680	1	Mid	-0.09	0.159	24.73	25.00	1.064	0.169	27#
		N/A			0	41490	2680	50	High	0.04	0.114	23.96	24.00	1.009	0.115	/
		N/A		Left Tilted	0	41490	2680	1	Mid	-0.07	0.095	24.73	25.00	1.064	0.101	/
		N/A			0	41490	2680	50	High	-0.04	0.061	23.96	24.00	1.009	0.062	/
Body																
ANT0	Level A1	N/A	QPSK	Front Side	10	41490	2680	1	Mid	-0.03	0.412	24.73	25.00	1.064	0.438	/
		N/A			10	41490	2680	50	High	0.01	0.313	23.96	24.00	1.009	0.316	/
		N/A		Back Side	10	41490	2680	1	Mid	0.16	0.358	24.73	25.00	1.064	0.381	/

		N/A		Left Side	10	41490	2680	50	High	-0.11	0.278	23.96	24.00	1.009	0.281	/
		10			41490	2680	1	Mid	-0.12	0.163	24.73	25.00	1.064	0.173	/	
		10			41490	2680	50	High	-0.16	0.128	23.96	24.00	1.009	0.129	/	
		Right Side		10	41490	2680	1	Mid	-0.18	0.094	24.73	25.00	1.064	0.100	/	
				10	41490	2680	50	High	-0.15	0.072	23.96	24.00	1.009	0.073	/	
		Bottom Side		10	41490	2680	1	Mid	-0.02	0.549	24.73	25.00	1.064	0.584	28#	
				10	41490	2680	50	High	-0.16	0.435	23.96	24.00	1.009	0.439	/	
		Note: Refer to ANNEX C for the detailed test data for each test configuration.														

11.13 LTE Band 41 (20MHz Bandwidth) Worse case for CA Test

Antenna	Power Reduction	Sensor State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
ANT0	Level A1	N/A	QPSK	Left Cheek	0	41490 +41292	2680 +2660.2	1+1	Low +High	-0.11	0.139	24.38	25.00	1.153	0.160	/
Body																
ANT0	Level A1	N/A	QPSK	Bottom Side	10	41490 +41292	2680 +2660.2	1+1	Low +High	0.12	0.474	24.38	25.00	1.153	0.547	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

11.14 LTE Band 41_PC2 (20MHz Bandwidth)

Antenna	Power Reduction	Sensor State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
ANT0	Level A1	N/A	QPSK	Right Cheek	0	41490	2680	1	Mid	0.09	0.109	26.77	28.00	1.327	0.145	/
		N/A			0	41490	2680	50	Mid	0.16	0.108	25.44	27.00	1.432	0.155	/
		N/A		Right Tilted	0	41490	2680	1	Mid	0.07	0.069	26.77	28.00	1.327	0.091	/
		N/A			0	41490	2680	50	Mid	0.03	0.055	25.44	27.00	1.432	0.079	/
		N/A		Left Cheek	0	41490	2680	1	Mid	0.07	0.203	26.77	28.00	1.327	0.269	29#
		N/A			0	41490	2680	50	Mid	0.05	0.156	25.44	27.00	1.432	0.223	/
		N/A		Left Tilted	0	41490	2680	1	Mid	0.03	0.110	26.77	28.00	1.327	0.146	/
		N/A			0	41490	2680	50	Mid	0.02	0.082	25.44	27.00	1.432	0.118	/
Body																
ANT0	Level A1	N/A	QPSK	Front Side	10	41490	2680	1	Mid	0.08	0.636	26.77	28.00	1.327	0.844	/
		N/A			10	39750	2506	1	Mid	0.08	0.692	26.46	28.00	1.426	0.987	/
		N/A			10	40185	2549.5	1	Mid	-0.15	0.628	26.57	28.00	1.390	0.873	/
		N/A			10	40620	2593	1	Mid	0.15	0.606	26.59	28.00	1.384	0.838	/
		N/A			10	41055	2636.5	1	Mid	0.16	0.617	26.62	28.00	1.374	0.848	/
		N/A			10	41490	2680	50	Mid	0.19	0.503	25.44	27.00	1.432	0.720	/

		N/A			10	39750	2506	50	Mid	-0.02	0.543	25.14	27.00	1.535	0.833	/
		N/A			10	40185	2549.5	50	Mid	-0.04	0.485	25.28	27.00	1.486	0.721	/
		N/A			10	40620	2593	50	Mid	0.01	0.464	25.28	27.00	1.486	0.689	/
		N/A			10	41055	2636.5	50	Mid	0.02	0.471	25.37	27.00	1.455	0.686	/
		N/A			10	41490	2680	100	0	-0.08	0.489	25.37	27.00	1.455	0.712	/
		N/A			10	41490	2680	1	Mid	0.08	0.539	26.77	28.00	1.327	0.715	/
		N/A			10	39750	2506	1	Mid	0.02	0.587	26.46	28.00	1.426	0.837	/
		N/A			10	40185	2549.5	1	Mid	0.03	0.524	26.57	28.00	1.390	0.728	/
		N/A			10	40620	2593	1	Mid	0.11	0.473	26.59	28.00	1.384	0.654	/
		N/A			10	41055	2636.5	1	Mid	0.01	0.481	26.62	28.00	1.374	0.661	/
		N/A			10	41490	2680	50	Mid	-0.19	0.411	25.44	27.00	1.432	0.589	/
		N/A			10	39750	2506	50	Mid	-0.04	0.438	25.14	27.00	1.535	0.672	/
		N/A			10	40185	2549.5	50	Mid	0.08	0.432	25.28	27.00	1.486	0.642	/
		N/A			10	40620	2593	50	Mid	-0.10	0.418	25.28	27.00	1.486	0.621	/
		N/A			10	41055	2636.5	50	Mid	-0.11	0.407	25.37	27.00	1.455	0.592	/
		N/A			10	41490	2680	100	0	0.03	0.424	25.37	27.00	1.455	0.617	/
		N/A			10	41490	2680	1	Mid	-0.16	0.206	26.77	28.00	1.327	0.273	/
		N/A			10	41490	2680	50	Mid	0.19	0.161	25.44	27.00	1.432	0.231	/
		N/A			10	41490	2680	1	Mid	0.02	0.134	26.77	28.00	1.327	0.178	/
		N/A			10	41490	2680	50	Mid	0.10	0.105	25.44	27.00	1.432	0.150	/
		N/A			10	41490	2680	1	Mid	-0.03	0.764	26.77	28.00	1.327	1.014	/
		N/A			10	39750	2506	1	Mid	-0.16	0.896	26.46	28.00	1.426	1.277	30#
		N/A			10	40185	2549.5	1	Mid	0.03	0.862	26.57	28.00	1.390	1.198	/
		N/A			10	40620	2593	1	Mid	-0.10	0.708	26.59	28.00	1.384	0.980	/
		N/A			10	41055	2636.5	1	Mid	0.10	0.705	26.62	28.00	1.374	0.969	/
		N/A			10	41490	2680	50	Mid	0.15	0.606	25.44	27.00	1.432	0.868	/
		N/A			10	39750	2506	50	Mid	-0.01	0.706	25.14	27.00	1.535	1.083	/
		N/A			10	40185	2549.5	50	Mid	0.02	0.686	25.28	27.00	1.486	1.019	/
		N/A			10	40620	2593	50	Mid	0.06	0.565	25.28	27.00	1.486	0.840	/
		N/A			10	41055	2636.5	50	Mid	0.02	0.555	25.37	27.00	1.455	0.808	/
		N/A			10	41490	2680	100	0	0.09	0.584	25.37	27.00	1.455	0.850	/

Note: Refer to ANNEX C for the detailed test data for each test configuration.

Antenna	Power Reduction	Sensor State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune power (dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Extremity																
ANT0	Level A1	N/A	QPSK	Bottom Side	0	39750	2506	1	Mid	0.04	2.370	26.46	28.00	1.426	3.379	31#
		N/A			0	41490	2680	1	Mid	0.12	1.680	26.77	28.00	1.327	2.230	/
		N/A			0	40185	2549.5	1	Mid	0.03	1.930	26.57	28.00	1.390	2.683	/
		N/A			0	40620	2593	1	Mid	0.03	1.640	26.59	28.00	1.384	2.269	/
		N/A			0	41055	2636.5	1	Mid	0.03	1.620	26.62	28.00	1.374	2.226	/
		N/A			0	41490	2680	50	Mid	0.03	1.390	25.44	27.00	1.432	1.991	/
		N/A			0	39750	2506	50	Mid	0.02	1.880	25.14	27.00	1.535	2.885	/
		N/A			0	40185	2549.5	50	Mid	0.12	1.630	25.28	27.00	1.486	2.422	/

		N/A			0	40620	2593	50	Mid	-0.08	1.360	25.28	27.00	1.486	2.021	/
		N/A			0	41055	2636.5	50	Mid	0.09	1.350	25.37	27.00	1.455	1.965	/
		N/A			0	39750	2506	100	0	0.12	1.880	26.46	27.00	1.132	2.129	/

11.15 WIFI 2.4GHz

Antenna	Power Reduction	Sensor State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																
ANT3	Down	N/A	802.11 b	Right Cheek	0	1	2412	-0.07	0.350	100	1.000	18.76	18.80	1.009	0.353	/
	Down	N/A		Left Tilted	0	1	2412	0.08	0.304	100	1.000	18.76	18.80	1.009	0.307	/
	Down	N/A		Right Tilted	0	1	2412	0.12	0.686	100	1.000	18.76	18.80	1.009	0.692	32#
	Down	N/A		Right Tilted	0	1	2412	0.10	0.604	100	1.000	18.76	18.80	1.009	0.610	/
Body																
ANT3	Full	N/A	802.11 b	Front Side	10	6	2437	0.04	0.346	100	1.000	21.73	21.80	1.016	0.352	/
	Full	N/A		Back Side	10	6	2437	0.06	0.523	100	1.000	21.73	21.80	1.016	0.531	33#
	Full	N/A		Right Side	10	6	2437	0.09	0.243	100	1.000	21.73	21.80	1.016	0.247	/
	Full	N/A		Top Side	10	6	2437	0.08	0.229	100	1.000	21.73	21.80	1.016	0.233	/
	Full	N/A		Back Side	14	6	2437	0.04	0.189	100	1.000	21.73	21.80	1.016	0.192	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.																

11.16 WIFI 5GHz

Fre. Band	Antenna	Power Reduction	Sensor State	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head																	
5.3G	ANT3	Down	N/A	802.11ac(VHT80)	Right Cheek	0	58	5290	0.01	0.136	87.77	1.139	14.87	15.00	1.030	0.160	/
			N/A		Right Tilted	0	58	5290	0.03	0.132	87.77	1.139	14.87	15.00	1.030	0.155	/
			N/A		Left Cheek	0	58	5290	-0.01	0.405	87.77	1.139	14.87	15.00	1.030	0.475	34#
			N/A		Left Tilted	0	58	5290	0.03	0.247	87.77	1.139	14.87	15.00	1.030	0.290	/
5.5G	ANT3	Down	N/A	802.11ac(VHT80)	Right Cheek	0	106	5530	0.06	0.193	87.77	1.139	14.86	15.00	1.030	0.227	/
			N/A		Right Tilted	0	106	5530	0.02	0.173	87.77	1.139	14.86	15.00	1.030	0.204	/
			N/A		Left Cheek	0	106	5530	0.04	0.594	87.77	1.139	14.86	15.00	1.030	0.699	35#
			N/A		Left Tilted	0	106	5530	0.13	0.339	87.77	1.139	14.86	15.00	1.030	0.399	/
5.8G	ANT3	Down	N/A	802.11ac(VHT80)	Right Cheek	0	155	5775	0.03	0.230	87.77	1.139	14.72	15.00	1.030	0.279	/
			N/A		Right Tilted	0	155	5775	0.01	0.215	87.77	1.139	14.72	15.00	1.030	0.261	/
			N/A		Left Cheek	0	155	5775	0.09	0.542	87.77	1.139	14.72	15.00	1.030	0.659	36#
			N/A		Left Tilted	0	155	5775	-0.05	0.346	87.77	1.139	14.72	15.00	1.064	0.420	/
Body																	
5.3G	ANT3	Full	N/A	802.11a	Front Side	10	60	5300	0.02	0.242	96.34	1.038	19.36	19.50	1.033	0.259	/
			N/A		Back Side	10	60	5300	-0.01	0.294	96.34	1.038	19.36	19.50	1.033	0.315	/
			N/A		Right Side	10	60	5300	-0.01	0.344	96.34	1.038	19.36	19.50	1.033	0.369	37#
			N/A		Top Side	10	60	5300	-0.03	0.202	96.34	1.038	19.36	19.50	1.033	0.217	/

5.5G	ANT3	Full	N/A	802.11a	Front Side	10	116	5580	-0.01	0.362	96.34	1.038	19.93	20.00	1.016	0.382	/
			N/A		Back Side	10	116	5580	-0.05	0.389	96.34	1.038	19.93	20.00	1.016	0.410	/
			N/A		Right Side	10	116	5580	-0.05	0.409	96.34	1.038	19.93	20.00	1.016	0.431	38#
			N/A		Top Side	10	116	5580	-0.05	0.323	96.34	1.038	19.93	20.00	1.016	0.341	/
5.8G	ANT3	Full	N/A	802.11a	Front Side	10	149	5745	0.03	0.345	96.34	1.038	19.90	20.00	1.023	0.366	/
			N/A		Back Side	10	149	5745	-0.07	0.496	96.34	1.038	19.90	20.00	1.023	0.527	39#
			N/A		Right Side	10	149	5745	-0.02	0.374	96.34	1.038	19.90	20.00	1.023	0.397	/
			N/A		Top Side	10	149	5745	-0.01	0.359	96.34	1.038	19.90	20.00	1.023	0.381	/
5.8G	ANT3	Full	N/A	802.11a	Back Side	14	149	5745	-0.02	0.173	96.34	1.038	19.90	20.00	1.023	0.184	/

11.17 Bluetooth

Antenna	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
ANT3	DH5	Right Cheek	0	39	2441	0.06	0.019	76.34	1.310	9.75	10.00	1.059	0.027	/
		Right Tilted	0	39	2441	0.01	0.011	76.34	1.310	9.75	10.00	1.059	0.015	/
		Left Cheek	0	39	2441	0.19	0.030	76.34	1.310	9.75	10.00	1.059	0.041	40#
		Left Tilted	0	39	2441	-0.09	0.027	76.34	1.310	9.75	10.00	1.059	0.038	/
Body														
ANT3	DH5	Front Side	10	39	2441	0.01	0.008	76.34	1.310	9.75	10.00	1.059	0.011	/
		Back Side	10	39	2441	-0.09	0.021	76.34	1.310	9.75	10.00	1.059	0.030	41#
		Left Side	10	39	2441	0.03	0.005	76.34	1.310	9.75	10.00	1.059	0.007	/
		Top Side	10	39	2441	0.05	0.015	76.34	1.310	9.75	10.00	1.059	0.021	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.														

12 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These 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. 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.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. 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, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

Frequency Band (MHz)	Wireless Band	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Repeated ^{1st} Measured SAR (W/kg)	Largest to Smallest SAR Ratio
1900	WCDMA Band 2	Body	Back	0.854	Yes	0.833	1.03
2600	LTE Band 41_PC2	Body	Bottom Side	0.896	Yes	0.882	1.02

Frequency Band (MHz)	Wireless Band	RF Exposure Conditions	Test Position	Highest Measured SAR (W/kg)	Repeated SAR (Yes/No)	Repeated ^{1st} Measured SAR (W/kg)	Largest to Smallest SAR Ratio
2600	LTE Band 41_PC2	Body	Bottom Side	2.370	Yes	2.220	1.08
Note : When the highest measured SAR is ≥ 2.0 W/kg, repeat that measurement once.							

13 SIMULTANEOUS TRANSMISSION

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR 1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR 1g 1.6 W/kg), SAR test exclusion is determined by the SAR to Peak Location Ratio (SPLSR).

13.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body	Specific
1	WWAN + 2.4GWIFI	Yes	Yes	No
2	WWAN + 5GWIFI	Yes	Yes	No
3	WWAN + 5GWIFI + Bluetooth	Yes	Yes	No

Note:

1. 2G&3G&4G share the same antenna and can't transmit simultaneously.
2. WWAN antennas can switch automatically, but can't transmit simultaneously.
3. The maximum SAR summation is calculated based on the same configuration and test position.
4. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
5. This device 2.4GHz WLAN/5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz WLAN/5.5GHz WLAN supports WiFi Direct (GC only).

13.2 Sum SAR of Simultaneous Transmission

13.2.1 Head Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

Band	Antenna	Position	Stand alone SAR				SUM SAR		
			1	2	3	4			
			WWAN	2.4GWIFI	MAX.5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3)	Sum SAR (1+3+4)
GSM850	Ant0	Right Cheek	0.279	0.353	0.279	0.027	0.632	0.558	0.585
		Right Tilt	0.102	0.307	0.261	0.015	0.409	0.363	0.378
		Left Cheek	0.232	0.692	0.699	0.041	0.924	0.931	0.972
		Left Tilt	0.103	0.610	0.420	0.038	0.713	0.523	0.561
GSM1900	Ant1	Right Cheek	0.280	0.353	0.279	0.027	0.633	0.559	0.586
		Right Tilt	0.125	0.307	0.261	0.015	0.432	0.386	0.401
		Left Cheek	0.183	0.692	0.699	0.041	0.875	0.882	0.923
		Left Tilt	0.127	0.610	0.420	0.038	0.737	0.547	0.585
WCDMA B2	Ant1	Right Cheek	0.413	0.353	0.279	0.027	0.766	0.692	0.719
		Right Tilt	0.254	0.307	0.261	0.015	0.561	0.515	0.530
		Left Cheek	0.504	0.692	0.699	0.041	1.196	1.203	1.244
		Left Tilt	0.309	0.610	0.420	0.038	0.919	0.729	0.767
WCDMA B4	Ant1	Right Cheek	0.369	0.353	0.279	0.027	0.722	0.648	0.675
		Right Tilt	0.326	0.307	0.261	0.015	0.633	0.587	0.602
		Left Cheek	0.401	0.692	0.699	0.041	1.093	1.100	1.141
		Left Tilt	0.283	0.610	0.420	0.038	0.893	0.703	0.741
WCDMA B5	Ant0	Right Cheek	0.303	0.353	0.279	0.027	0.656	0.582	0.609
		Right Tilt	0.096	0.307	0.261	0.015	0.403	0.357	0.372
		Left Cheek	0.256	0.692	0.699	0.041	0.948	0.955	0.996
		Left Tilt	0.095	0.610	0.420	0.038	0.705	0.515	0.553
LTE Band 12	Ant0	Right Cheek	0.256	0.353	0.279	0.027	0.609	0.535	0.562
		Right Tilt	0.127	0.307	0.261	0.015	0.434	0.388	0.403
		Left Cheek	0.242	0.692	0.699	0.041	0.934	0.941	0.982
		Left Tilt	0.099	0.610	0.420	0.038	0.709	0.519	0.557
LTE Band 25	Ant1	Right Cheek	0.244	0.353	0.279	0.027	0.597	0.523	0.550
		Right Tilt	0.174	0.307	0.261	0.015	0.481	0.435	0.450
		Left Cheek	0.281	0.692	0.699	0.041	0.973	0.980	1.021
		Left Tilt	0.211	0.610	0.420	0.038	0.821	0.631	0.669
LTE Band 26	Ant0	Right Cheek	0.318	0.353	0.279	0.027	0.671	0.597	0.624
		Right Tilt	0.137	0.307	0.261	0.015	0.444	0.398	0.413
		Left Cheek	0.301	0.692	0.699	0.041	0.993	1.000	1.041
		Left Tilt	0.118	0.610	0.420	0.038	0.728	0.538	0.576
LTE Band 41_PC3	Ant0	Right Cheek	0.084	0.353	0.279	0.027	0.437	0.363	0.390
		Right Tilt	0.068	0.307	0.261	0.015	0.375	0.329	0.344
		Left Cheek	0.169	0.692	0.699	0.041	0.861	0.868	0.909
		Left Tilt	0.101	0.610	0.420	0.038	0.711	0.521	0.559

LTE Band 41_PC2	Ant0	Right Cheek	0.155	0.353	0.279	0.027	0.508	0.434	0.461
		Right Tilt	0.091	0.307	0.261	0.015	0.398	0.352	0.367
		Left Cheek	0.269	0.692	0.699	0.041	0.961	0.968	1.009
		Left Tilt	0.146	0.610	0.420	0.038	0.756	0.566	0.604
LTE Band 66	Ant1	Right Cheek	0.262	0.353	0.279	0.027	0.615	0.541	0.568
		Right Tilt	0.245	0.307	0.261	0.015	0.552	0.506	0.521
		Left Cheek	0.283	0.692	0.699	0.041	0.975	0.982	1.023
		Left Tilt	0.222	0.610	0.420	0.038	0.832	0.642	0.680
LTE Band 71	Ant0	Right Cheek	0.221	0.353	0.279	0.027	0.574	0.500	0.527
		Right Tilt	0.099	0.307	0.261	0.015	0.406	0.360	0.375
		Left Cheek	0.169	0.692	0.699	0.041	0.861	0.868	0.909
		Left Tilt	0.086	0.610	0.420	0.038	0.696	0.506	0.544
Note:									
1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.									
2: The highest Summed 1g SAR is 1.244 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.									

13.2.2 Body Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

Band	Antenna	Position	Stand alone SAR				SUM SAR		
			1	2	3	4			
			WWAN	2.4GWIFI	MAX.5GWIFI	Bluetooth	Sum SAR (1+2)	Sum SAR (1+3)	Sum SAR (1+3+4)
GSM850	Ant0	Front	0.304	0.352	0.382	0.011	0.656	0.686	0.697
		Back	0.424	0.531	0.527	0.030	0.955	0.951	0.981
		Left Side	0.350	/	/	0.007	0.350	0.350	0.357
		Right Side	0.207	0.247	0.431	/	0.454	0.638	0.638
		Bottom Side	0.351	/	/	/	0.351	0.351	0.351
GSM1900	Ant1	Front	0.154	0.352	0.382	0.011	0.506	0.536	0.547
		Back	0.241	0.531	0.527	0.030	0.772	0.768	0.798
		Left Side	0.124	/	/	0.007	0.124	0.124	0.131
		Bottom Side	0.157	/	/	/	0.157	0.157	0.157
WCDMA B2	Ant1	Front	0.172	0.352	0.382	0.011	0.524	0.554	0.565
		Back	0.248	0.531	0.527	0.030	0.779	0.775	0.805
		Left Side	0.136	/	/	0.007	0.136	0.136	0.143
		Bottom Side	0.202	/	/	/	0.202	0.202	0.202
WCDMA B4	Ant1	Front	0.427	0.352	0.382	0.011	0.779	0.809	0.820
		Back	0.583	0.531	0.527	0.030	1.114	1.110	1.140
		Left Side	0.395	/	/	0.007	0.395	0.395	0.402
		Bottom Side	0.470	/	/	/	0.470	0.470	0.470
WCDMA B5	Ant0	Front	0.348	0.352	0.382	0.011	0.700	0.730	0.741
		Back	0.579	0.531	0.527	0.030	1.110	1.106	1.136
		Left Side	0.175	/	/	0.007	0.175	0.175	0.182
		Right Side	0.302	0.247	0.431	/	0.549	0.733	0.733
		Bottom Side	0.400	/	/	/	0.400	0.400	0.400
LTE Band 12	Ant1	Front	0.293	0.352	0.382	0.011	0.645	0.675	0.686
		Back	0.384	0.531	0.527	0.030	0.915	0.911	0.941
		Left Side	0.262	/	/	0.007	0.262	0.262	0.269
		Right Side	0.429	0.316	0.431	/	0.676	0.860	0.860
		Bottom Side	0.174	/	/	/	0.174	0.174	0.174
LTE Band 25	Ant0	Front	0.225	0.352	0.382	0.011	0.577	0.607	0.618
		Back	0.335	0.531	0.527	0.030	0.866	0.862	0.892
		Left Side	0.204	/	/	0.007	0.204	0.204	0.211
		Bottom Side	0.269	/	/	/	0.269	0.269	0.269
LTE Band 26	Ant0	Front	0.343	0.352	0.382	0.011	0.695	0.725	0.736
		Back	0.538	0.531	0.527	0.030	1.069	1.065	1.095
		Left Side	0.200	/	/	0.007	0.200	0.200	0.207
		Right Side	0.329	0.247	0.431	/	0.576	0.760	0.760
		Bottom Side	0.381	/	/	/	0.381	0.381	0.381
LTE Band 41_PC3	Ant0	Front	0.438	0.352	0.382	0.011	0.790	0.820	0.831
		Back	0.381	0.531	0.527	0.030	0.912	0.908	0.938

		Left Side	0.173	/	/	0.007	0.173	0.173	0.180
		Right Side	0.100	0.247	0.431	/	0.347	0.531	0.531
		Bottom Side	0.584	/	/	/	0.584	0.584	0.584
LTE Band 41_PC2	Ant1	Front	0.987	0.352	0.382	0.011	1.339	1.369	1.380
		Back	0.837	0.531	0.527	0.030	1.368	1.364	1.394
		Left Side	0.273	/	/	0.007	0.273	0.273	0.280
		Right Side	0.178	0.247	0.431	/	0.425	0.609	0.609
		Bottom Side	1.277	/	/	/	1.277	1.277	1.277
LTE Band 66	Ant1	Front	0.287	0.352	0.382	0.011	0.639	0.669	0.680
		Back	0.398	0.531	0.527	0.030	0.929	0.925	0.955
		Left Side	0.259	/	/	0.007	0.259	0.259	0.266
		Right Side	0.142	0.247	0.431	/	0.389	0.573	0.573
		Bottom Side	0.356	/	/	/	0.356	0.356	0.356
LTE Band 71	Ant4	Front	0.218	0.352	0.382	0.011	0.570	0.600	0.611
		Back	0.293	0.531	0.527	0.030	0.824	0.820	0.850
		Left Side	0.181	/	/	0.007	0.181	0.181	0.188
		Right Side	0.382	0.247	0.431	/	0.629	0.813	0.813
		Bottom Side	0.164	/	/	/	0.164	0.164	0.164

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.394 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

14 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY5	52.8.8.1222	N/A	N/A
750MHz Validation Dipole	Speag	D750V3	SN: 1201	2020/11/11	2023/11/10
835MHz Validation Dipole	Speag	D835V2	SN: 4d187	2019/06/11	2022/06/10
1750MHz Validation Dipole	Speag	D1750V2	SN: 1130	2021/03/17	2024/03/16
1900MHz Validation Dipole	Speag	D1900V2	SN: 5d193	2019/06/11	2022/06/10
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2019/06/10	2022/06/09
2600MHz Validation Dipole	Speag	D2600V2	SN: 1095	2021/03/19	2024/03/18
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2021/03/18	2024/03/17
E-Field Probe	Speag	EX3DV4	SN: 7663	2021/07/23	2022/07/22
Data Acquisition Electronics	Speag	DAE4	SN: 878	2021/07/15	2022/07/14
Signal Generator	R&S	SMB100A	182396	2020/12/21	2021/12/20
Signal Generator	R&S	SMB100A	182396	2021/12/20	2021/12/19
Power Meter	R&S	NRVD-B2	7250BJ-0112/2011	2021/09/08	2022/09/07
Power Sensor	R&S	NRV-Z4	100381	2021/09/08	2022/09/07
Power Sensor	R&S	NRV-Z2	100211	2021/09/08	2022/09/07
Wireless Communication Test Set	Anritsu	MT8820C	6201502974	2021/03/16	2022/03/15
Wireless Communication Test Set	Anritsu	MT8820C	6201502991	2021/03/16	2022/03/15
Network Analyzer	Agilent	E5071B	MY42404001	2021/04/01	2022/03/31
Thermometer	Elitech	RC-4HC	N/A	2021/09/22	2022/09/21
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	SATIMO	SCLMP	SN 25/13 OCPG56	N/A	N/A
Phantom1(DASY5)	Speag	SAM	SN: 1859	N/A	N/A
Phantom2(DASY5)	Speag	SAM	SN: 1857	N/A	N/A
Phantom3(DASY4)	Speag	SAM	SN: 1392	N/A	N/A
Phantom4(DASY4)	Speag	SAM	SN: 1402	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

Note: For dipole antennas, BALUN has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an SCLMP Dielectric Probe Kit.

Head Liquid

Date	Test System	Liquid Type	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ϵ)	Target Conductivity (σ) (S/m)	Target Permittivity (ϵ)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2021.11.25	DASY5	Head	750	21.6	0.908	42.499	0.89	41.94	2.02	1.33
2021.11.27	DASY5	Head	835	21.4	0.932	42.218	0.90	41.50	3.56	1.73
2021.11.29	DASY5	Head	1750	21.7	1.368	40.352	1.37	40.08	-0.15	0.68
2021.12.01	DASY5	Head	1900	21.3	1.415	40.166	1.40	40.00	1.07	0.41
2021.12.14	DASY5	Head	2450	21.5	1.807	39.325	1.80	39.20	0.39	0.32
2021.12.05	DASY5	Head	2600	21.2	1.957	39.118	1.96	39.01	-0.15	0.28
2021.12.07	DASY5	Head	5250	21.1	4.665	34.992	4.71	35.93	-0.96	-2.61
2021.12.09	DASY5	Head	5600	21.4	5.034	34.299	5.07	35.53	-0.71	-3.46
2021.12.10	DASY5	Head	5750	21.5	5.201	34.000	5.22	35.36	-0.36	-3.85
2021.12.27	DASY5	Head	2450	21.4	1.869	40.795	1.80	39.20	3.83	4.07
2021.12.27	DASY5	Head	5750	21.0	5.100	35.380	5.22	35.36	-2.30	0.06

Note: The tolerance limit of Conductivity and Permittivity is $\pm 5\%$.

ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by SPEAG, the validation data should be within its specification of 10 % (for 1 g).

Head liquid 1g

Date	Test System	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2021.11.25	DASY5	Head	750	100	0.851	8.51	8.29	2.65
2021.11.27	DASY5	Head	835	100	0.914	9.14	9.49	-3.69
2021.11.29	DASY5	Head	1750	100	3.570	35.70	36.70	-2.72
2021.12.01	DASY5	Head	1900	100	4.030	40.30	39.40	2.28
2021.12.14	DASY5	Head	2450	100	5.300	53.00	52.60	0.76
2021.12.05	DASY5	Head	2600	100	5.530	55.30	56.80	-2.64
2021.12.07	DASY5	Head	5250	100	7.360	73.60	77.80	-5.40
2021.12.09	DASY5	Head	5600	100	8.470	84.70	81.20	4.31
2021.12.10	DASY5	Head	5750	100	8.270	82.70	77.20	7.12
2021.12.27	DASY5	Head	2450	100	5.270	52.70	52.60	0.19
2021.12.27	DASY5	Head	5750	100	7.680	76.80	77.20	-0.52

Note: The tolerance limit of System validation $\pm 10\%$.

Head liquid 10g

Date	Test System	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2021.12.05	DASY5	Head	2600	100	2.36	23.60	24.80	-4.84

Note: The tolerance limit of System validation $\pm 10\%$.

System Performance Check Data (750MHz)

System Check: Head 750 MHz

Date: 2021.11.25

Communication System Band: D750 (750.0 MHz); Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750$ MHz; $\sigma = 0.908$ S/m; $\epsilon_r = 42.499$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 750 100mW/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.907 W/kg

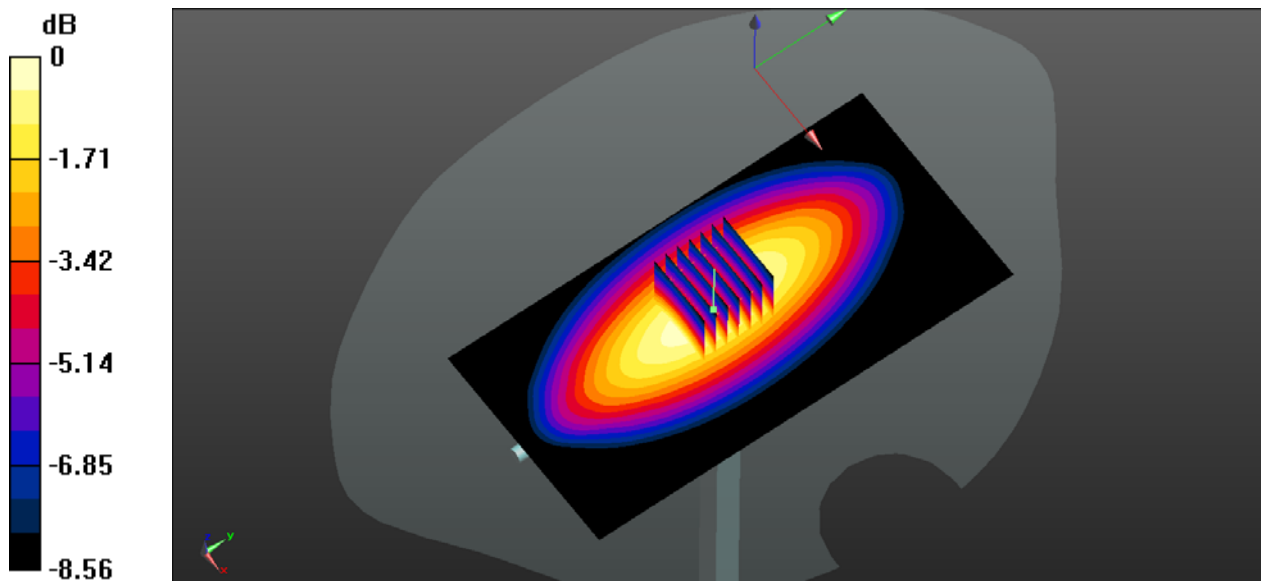
CW 750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.05 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.851 W/kg; SAR(10 g) = 0.570 W/kg

Maximum value of SAR (measured) = 0.915 W/kg



0 dB = 0.915 W/kg

System Performance Check Data (835MHz)

System Check: Head 835 MHz

Date: 2021.11.27

Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.932 \text{ S/m}$; $\epsilon_r = 42.218$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.10, 10.10, 10.10); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1859; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 835 100mW/Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.01 W/kg

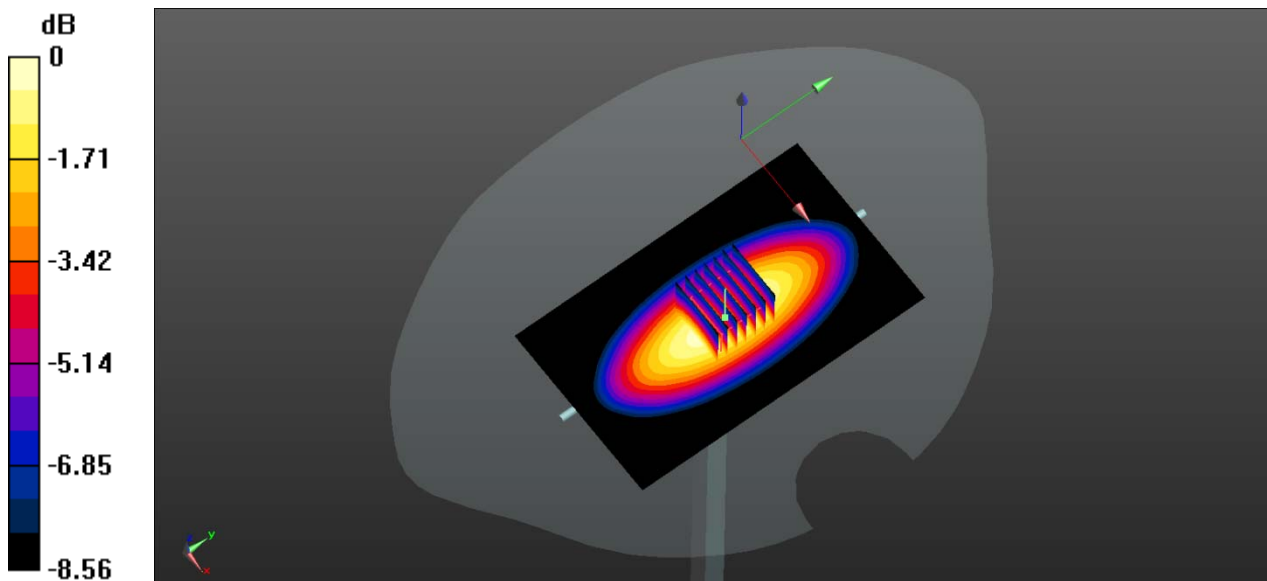
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 31.06 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.914 W/kg; SAR(10 g) = 0.629 W/kg

Maximum value of SAR (measured) = 0.983 W/kg



0 dB = 0.983 W/kg

System Performance Check Data (1750MHz)

System Check: Head 1750 MHz

Date: 2021.11.29

Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.352$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (30deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 1750 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.03 W/kg

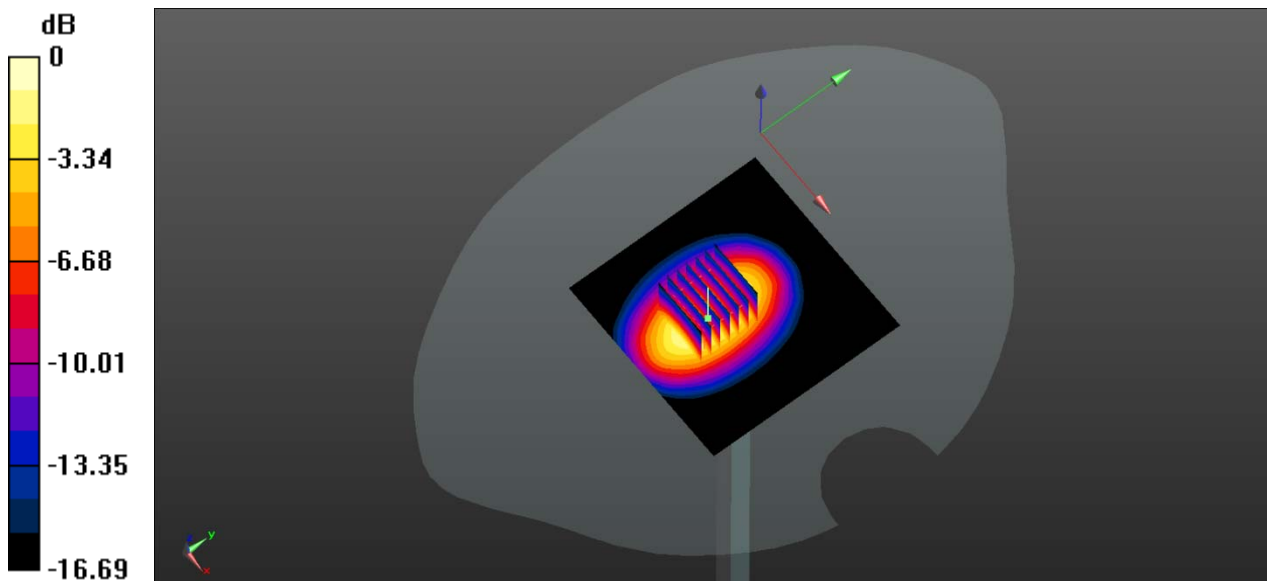
CW 1750 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.41 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 6.75 W/kg

SAR(1 g) = 3.57 W/kg; SAR(10 g) = 1.85 W/kg

Maximum value of SAR (measured) = 4.01 W/kg



0 dB = 4.01 W/kg

System Performance Check Data (1900MHz)

System Check: Head 1900 MHz

Date: 2021.12.1

Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.415$ S/m; $\epsilon_r = 40.166$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.3

- DASY5 Configuration:
- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 1900 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 4.57 W/kg

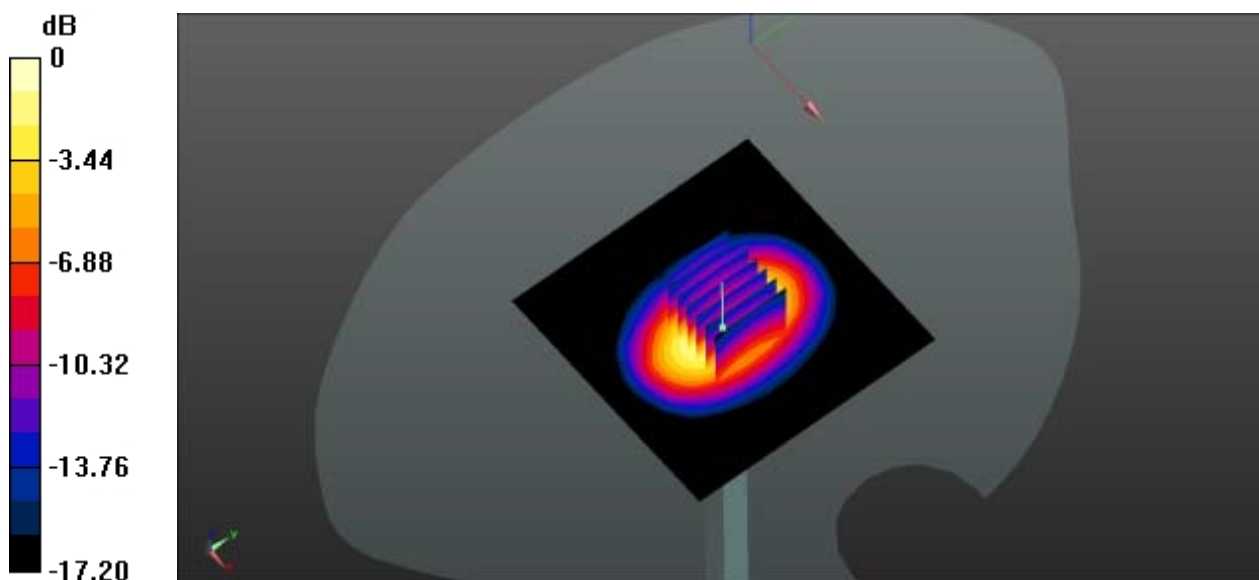
CW 1900 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.10 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 7.51 W/kg

SAR(1 g) = 4.03 W/kg; SAR(10 g) = 2.1 W/kg

Maximum value of SAR (measured) = 4.54 W/kg



0 dB = 4.55 W/kg

System Performance Check Data (2450MHz)

System Check: Head 2450 MHz

Date: 2021.12.14

Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.807$ S/m; $\epsilon_r = 39.325$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.19, 8.19, 8.19); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2450 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.32 W/kg

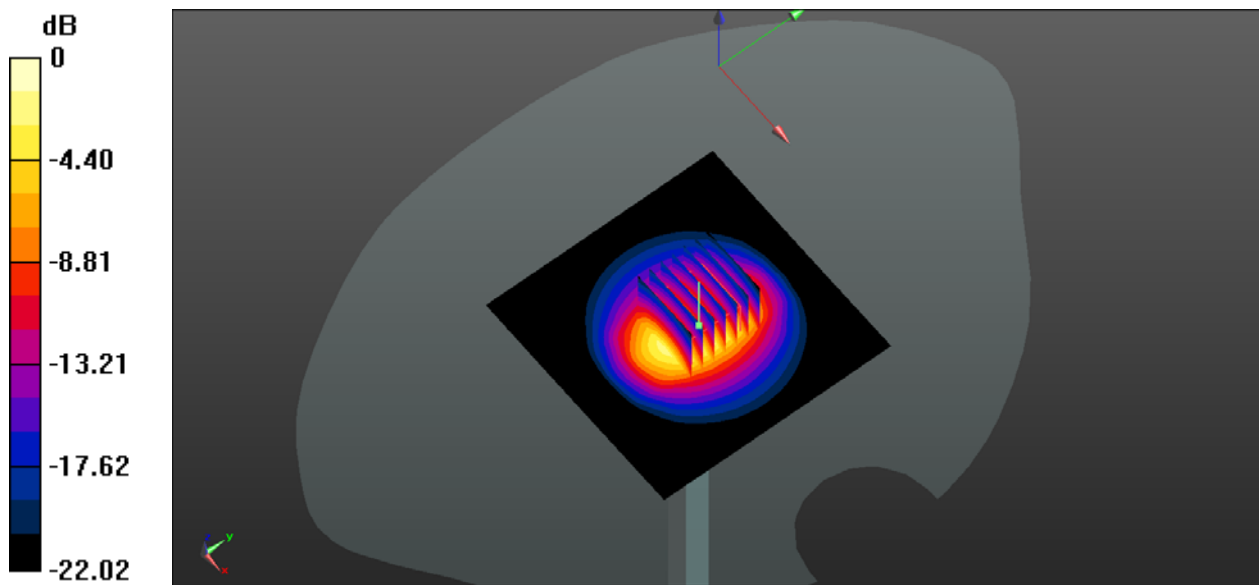
CW 2450 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.27 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 11.0 W/kg

SAR(1 g) = 5.3 W/kg; SAR(10 g) = 2.41 W/kg

Maximum value of SAR (measured) = 6.09 W/kg



System Performance Check Data (2450MHz)

System Check: Head 2450 MHz

Date: 2021.12.27

Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.869$ S/m; $\epsilon_r = 40.795$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.19, 8.19, 8.19); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2450 100mW/Area Scan (101x101x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 6.25 W/kg

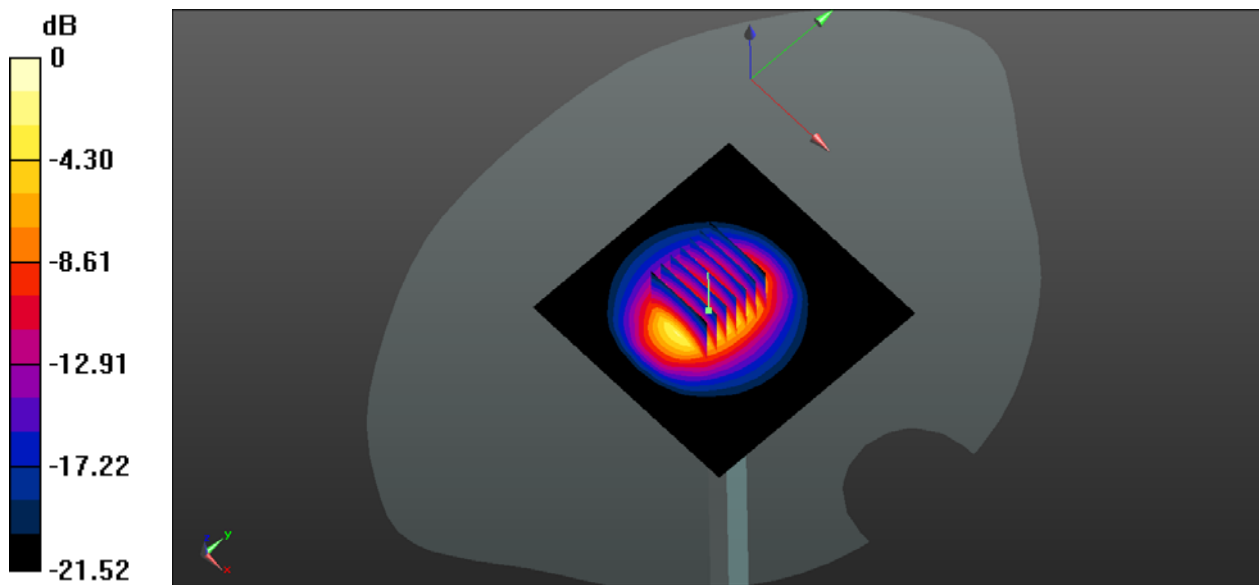
CW 2450 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 50.73 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 10.8 W/kg

SAR(1 g) = 5.27 W/kg; SAR(10 g) = 2.43 W/kg

Maximum value of SAR (measured) = 6.10 W/kg



0 dB = 6.10 W/kg

System Performance Check Data (2600MHz)

System Check: Head 2600 MHz

Date: 2021.12.5

Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.957$ S/m; $\epsilon_r = 39.118$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF((7.94, 7.94, 7.94); Calibrated: 2021.07.23;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 2600 100mW /Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.42 W/kg

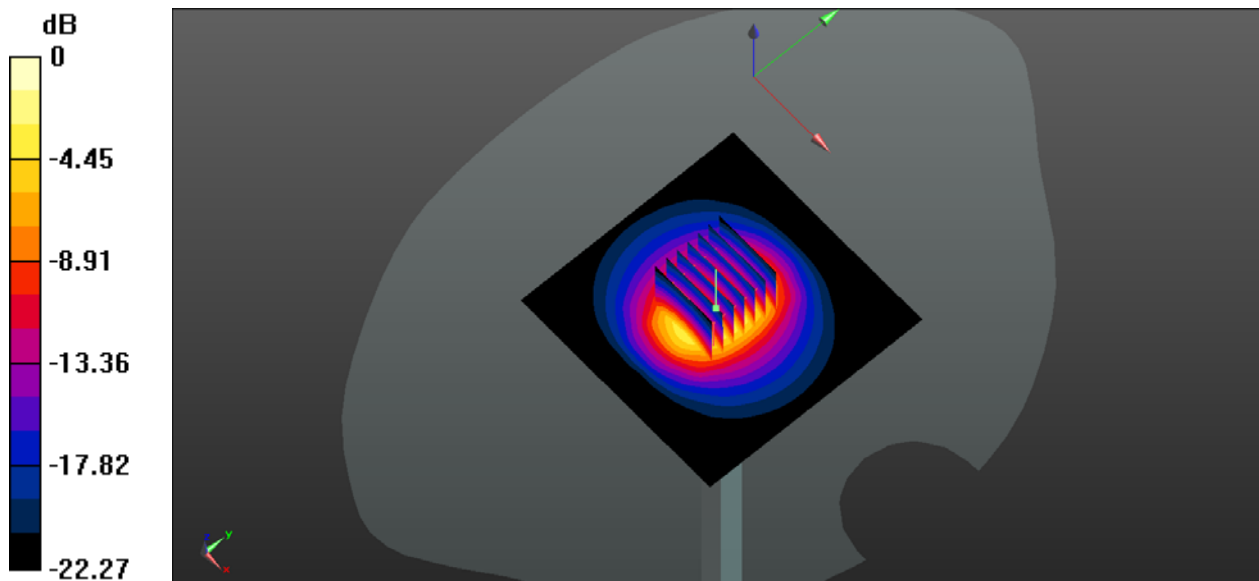
CW 2600 100mW /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 45.73 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 12.5 W/kg

SAR(1 g) = 5.53 W/kg; SAR(10 g) = 2.36 W/kg

Maximum value of SAR (measured) = 6.37 W/kg



0 dB = 6.33 W/kg

System Performance Check Data (5250MHz)

System Check: Head 5250 MHz

Date: 2021.12.7

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.665$ S/m; $\epsilon_r = 34.992$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.61, 5.61, 5.61); Calibrated: 2021.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5250 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 14.3 W/kg

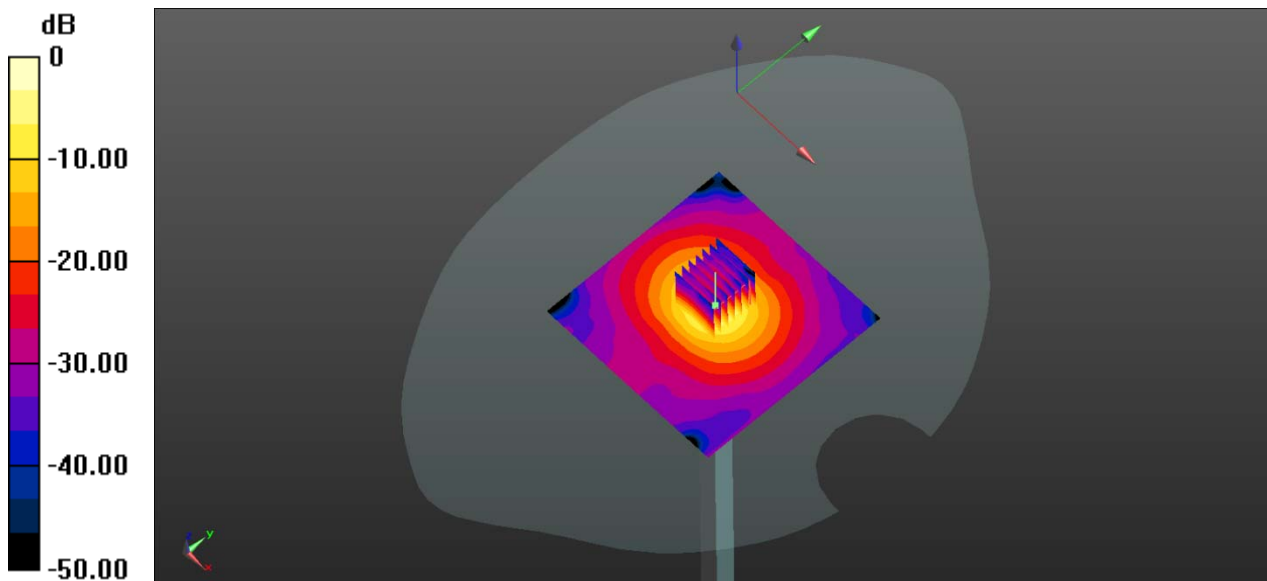
CW 5250 100mW/Zoom Scan (7x7x21)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 37.78 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 33.3 W/kg

SAR(1 g) = 7.36 W/kg; SAR(10 g) = 2.06 W/kg

Maximum value of SAR (measured) = 14.7 W/kg



0 dB = 19.1 W/kg

System Performance Check Data (5600MHz)

System Check: Head 5600 MHz

Date: 2021.12.9

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.034$ S/m; $\epsilon_r = 34.299$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.10, 5.10, 5.10); Calibrated: 2021.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5600 100mW /Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 9.13 W/kg

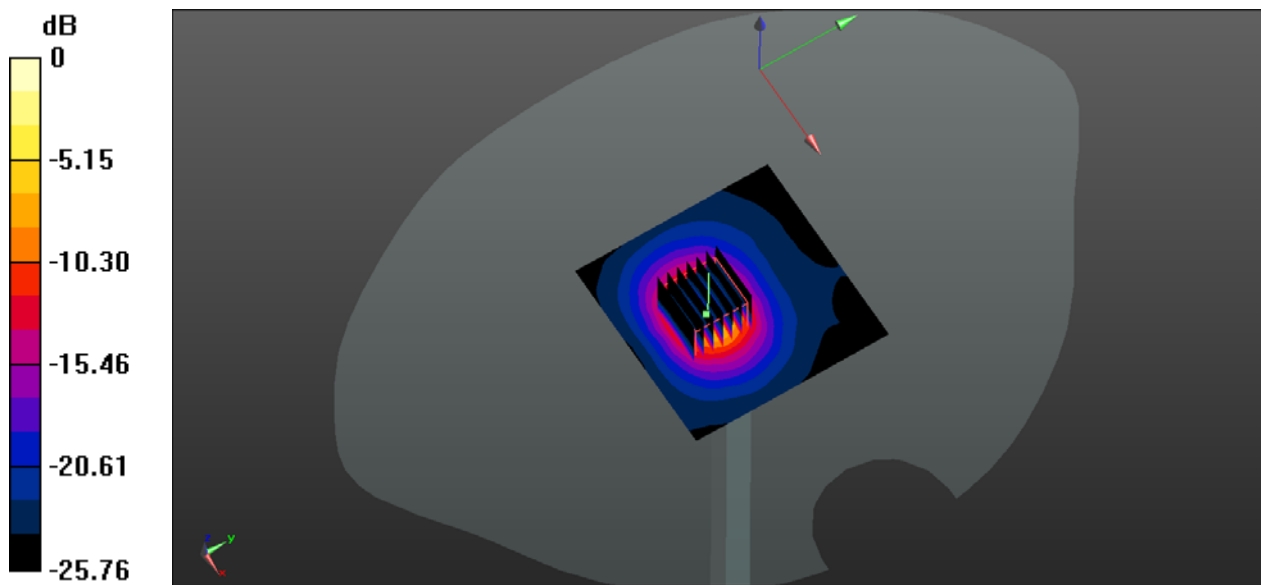
CW 5600 100mW /Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 22.84 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 38.21 W/kg

SAR(1 g) = 8.47 W/kg; SAR(10 g) = 2.4 W/kg

Maximum value of SAR (measured) = 17.1 W/kg



0 dB = 17.2 W/kg

System Performance Check Data (5750MHz)

System Check: Head 5800 MHz

Date: 2021.12.10

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.201$ S/m; $\epsilon_r = 34$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.15, 5.15, 5.15); Calibrated: 2021.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5750 100mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.92 W/kg

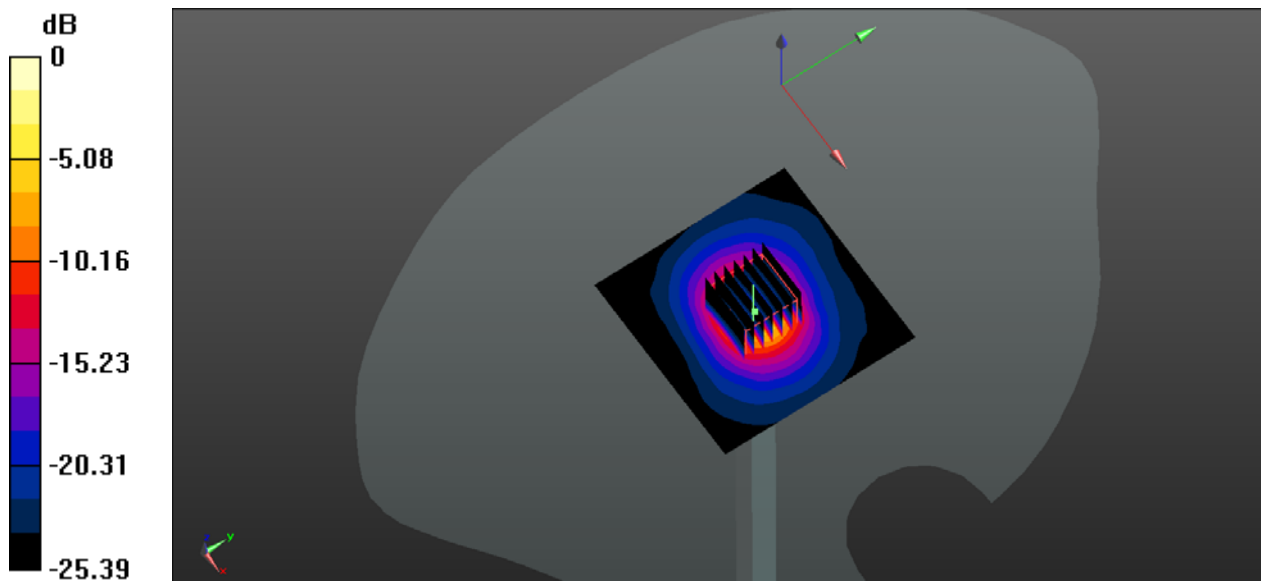
CW 5750 100mW/Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 40.19 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 36.7 W/kg

SAR(1 g) = 8.27 W/kg; SAR(10 g) = 2.33 W/kg

Maximum value of SAR (measured) = 16.1 W/kg



0 dB = 16.1 W/kg

System Performance Check Data (5750MHz)

System Check: Head 5750 MHz

Date: 2021.12.27

Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.1$ S/m; $\epsilon_r = 35.38$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.15, 5.15, 5.15); Calibrated: 2021.07.23;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 5750 100mW/Area Scan (81x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.46 W/kg

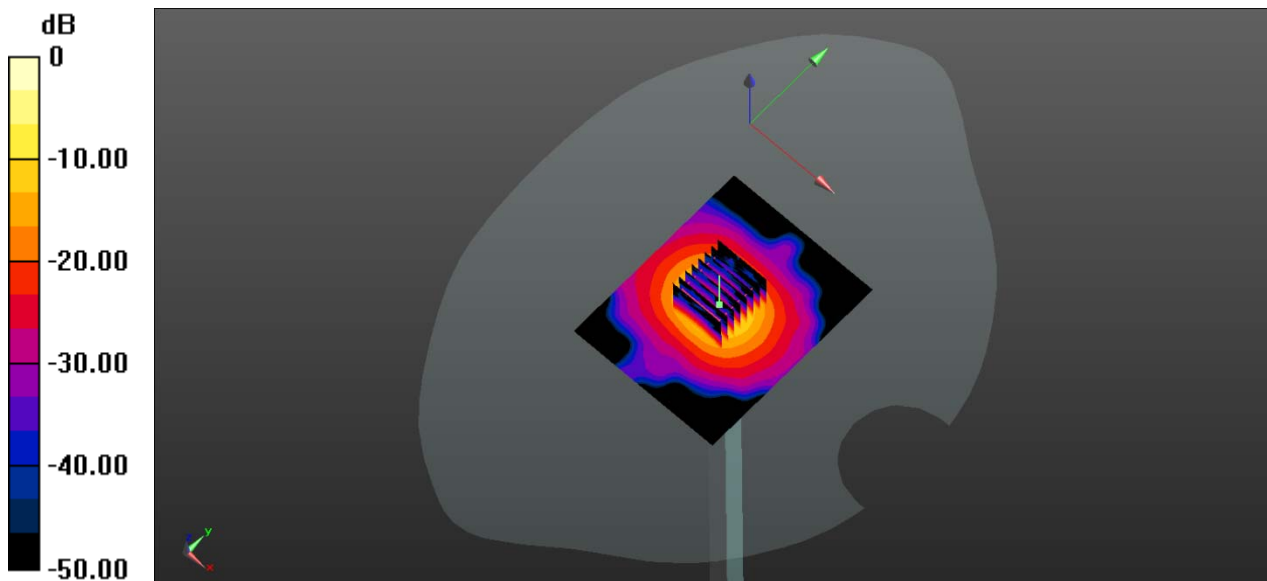
CW 5750 100mW/Zoom Scan (8x8x21)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 36.33 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 35.3 W/kg

SAR(1 g) = 7.68 W/kg; SAR(10 g) = 2.13 W/kg

Maximum value of SAR (measured) = 19.1 W/kg



0 dB = 19.1 W/kg

ANNEX C TEST DATA

1.Right Head with Cheek on Low Channel in GSM850

Date: 2021.11.27

Communication System Band: Exported from older format; Frequency: 824.2 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.929$ S/m; $\epsilon_r = 42.255$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.10, 10.10, 10.10); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch128/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.314 W/kg

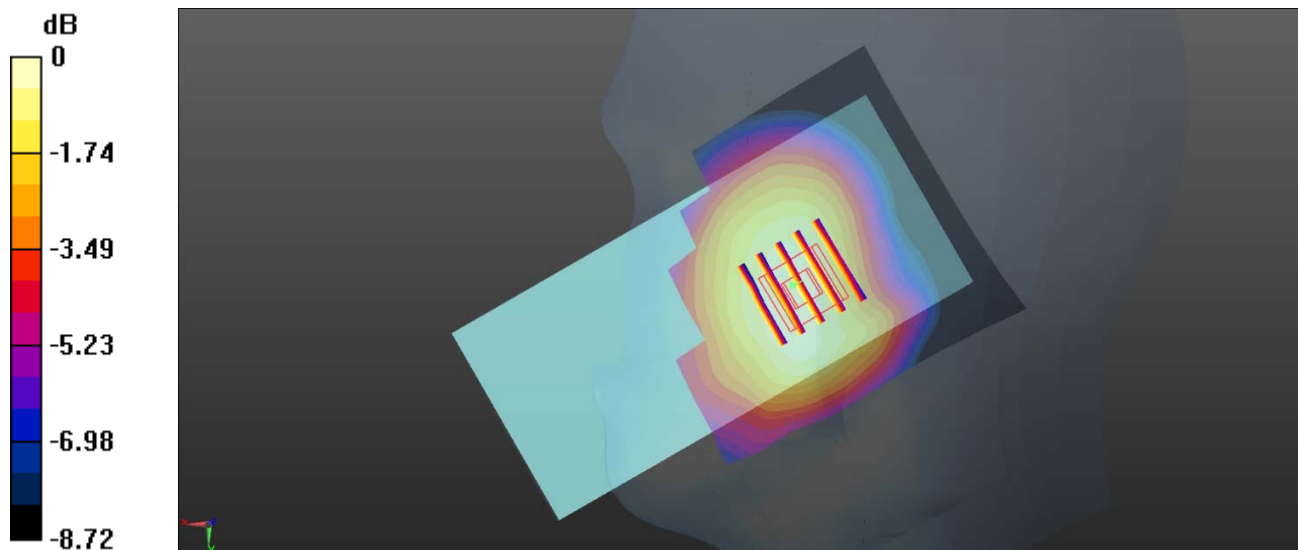
Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.663 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.322 W/kg

SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.192 W/kg

Maximum value of SAR (measured) = 0.295 W/kg



0 dB = 0.295 W/kg = -5.30 dBW/kg

2.Body Plane with Back side 10mm on Low Channel in GSM850

Date: 2021.11.27

Communication System Band: Exported from older format; Frequency: 824.2 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.929$ S/m; $\epsilon_r = 42.255$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.10, 10.10, 10.10); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch128/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.532 W/kg

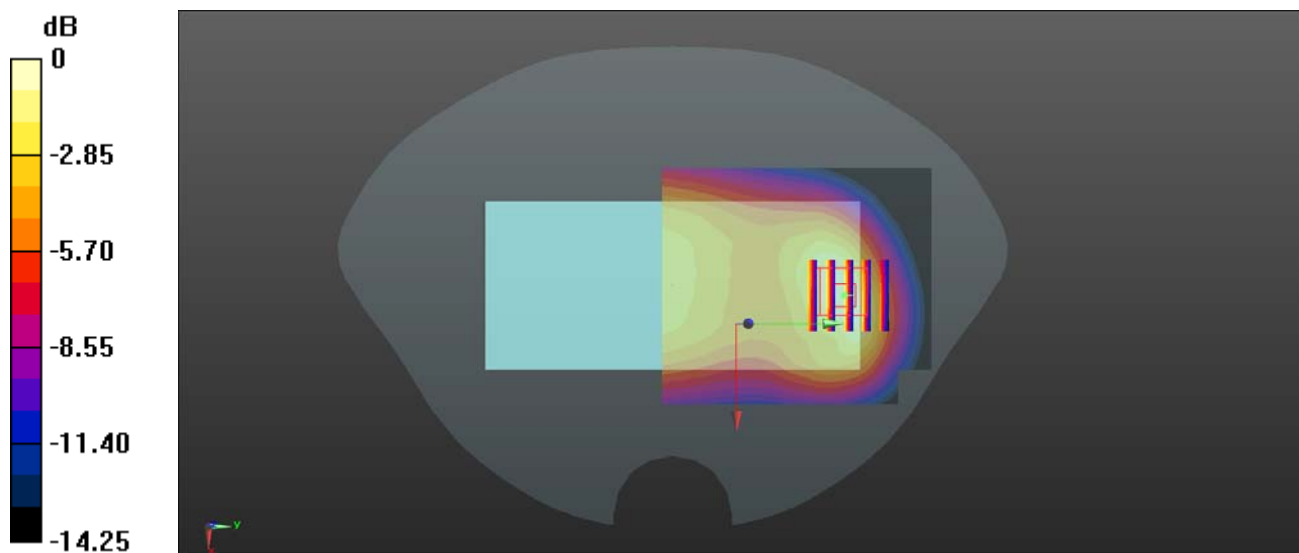
Ch128/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.369 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.659 W/kg

SAR(1 g) = 0.377 W/kg; SAR(10 g) = 0.227 W/kg

Maximum value of SAR (measured) = 0.545 W/kg



0 dB = 0.545 W/kg = -2.64 dBW/kg

3.Right Head with Cheek on High Channel in GSM1900

Date: 2021.12.1

Communication System Band: Exported from older format; Frequency: 1909.8 MHz;Duty Cycle: 1:2.08

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 40.154$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.3 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.394 W/kg

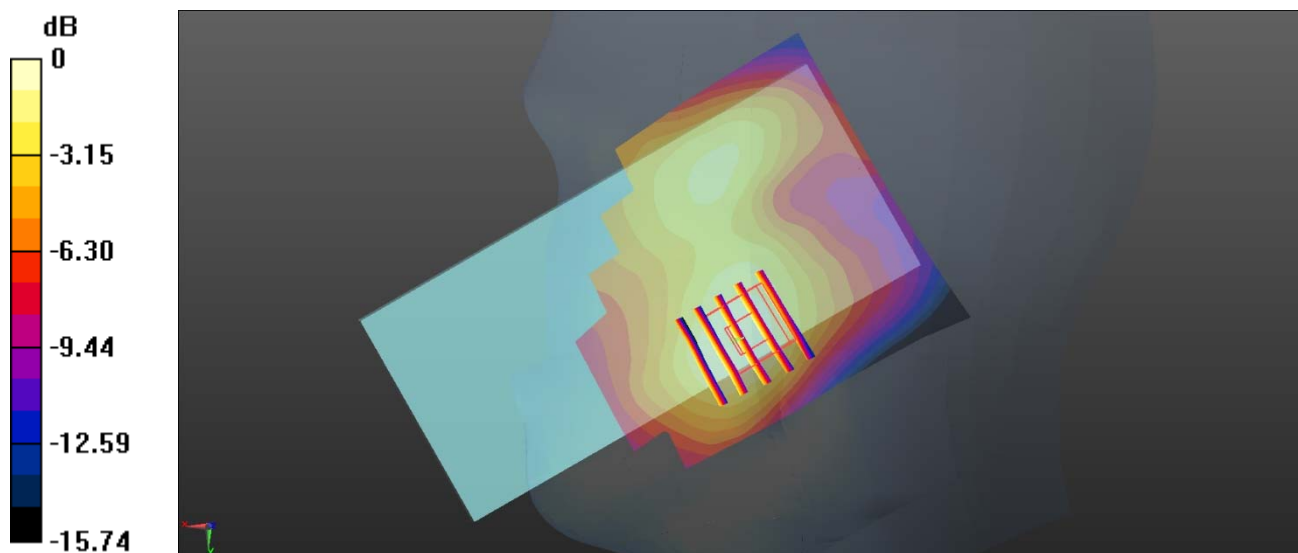
Ch810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.353 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.437 W/kg

SAR(1 g) = 0.273 W/kg; SAR(10 g) = 0.170 W/kg

Maximum value of SAR (measured) = 0.373 W/kg



0 dB = 0.373 W/kg = -4.28 dBW/kg

4.Body Plane with Back side 10mm on Mid Channel in GSM1900

Date: 2021.12.1

Communication System Band: Exported from older format; Frequency: 1880 MHz;Duty Cycle: 1:2.08

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 40.165$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch661/Area Scan (81x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.385 W/kg

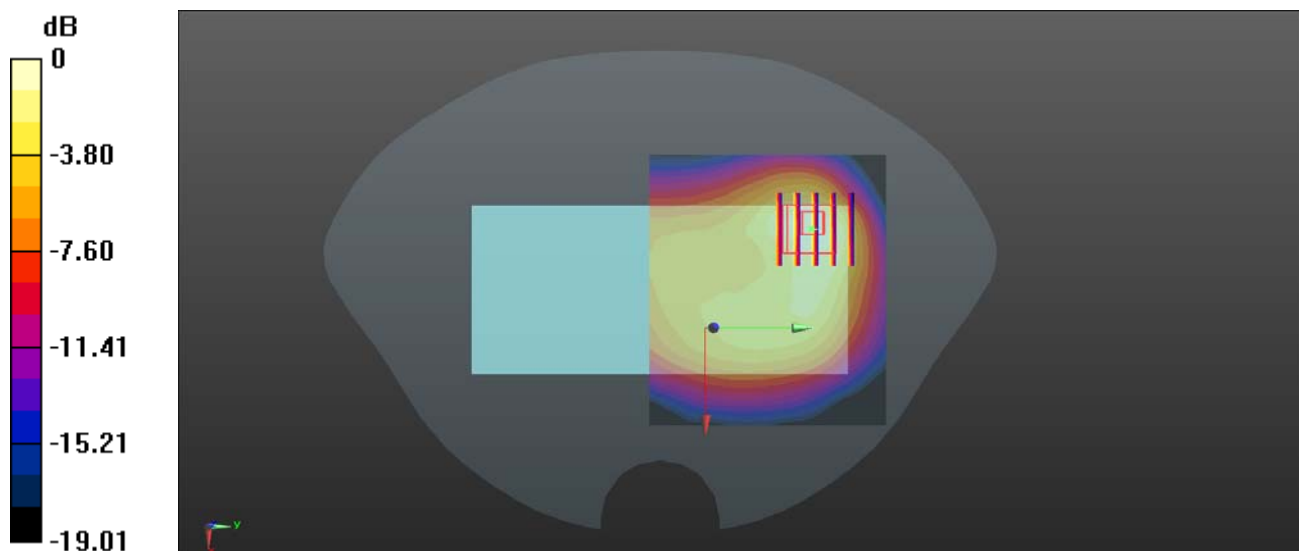
Ch661/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.45 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.427 W/kg

SAR(1 g) = 0.228 W/kg; SAR(10 g) = 0.125 W/kg

Maximum value of SAR (measured) = 0.343 W/kg



0 dB = 0.343 W/kg = -4.65 dBW/kg

5.Body Plane with Back side 14mm on High Channel in GSM1900

Date: 2021.12.1

Communication System Band: Exported from older format; Frequency: 1909.8 MHz;Duty Cycle: 1:2.08

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 40.154$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch810/Area Scan (81x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.379 W/kg

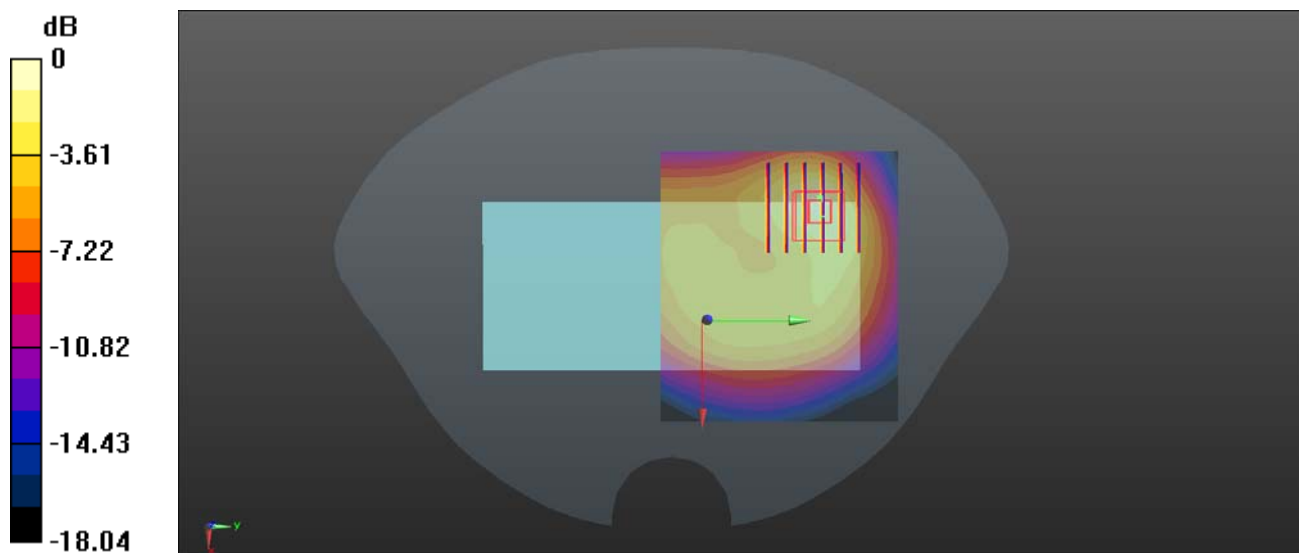
Ch810/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.323 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.548 W/kg

SAR(1 g) = 0.316 W/kg; SAR(10 g) = 0.182 W/kg

Maximum value of SAR (measured) = 0.456 W/kg



0 dB = 0.456 W/kg = -3.41 dBW/kg

6. Left Head with Cheek on High Channel in WCDMA II

Date: 2021.12.1

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

Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.416$ S/m; $\epsilon_r = 40.157$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.3 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9538/Area Scan (71x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.480 W/kg

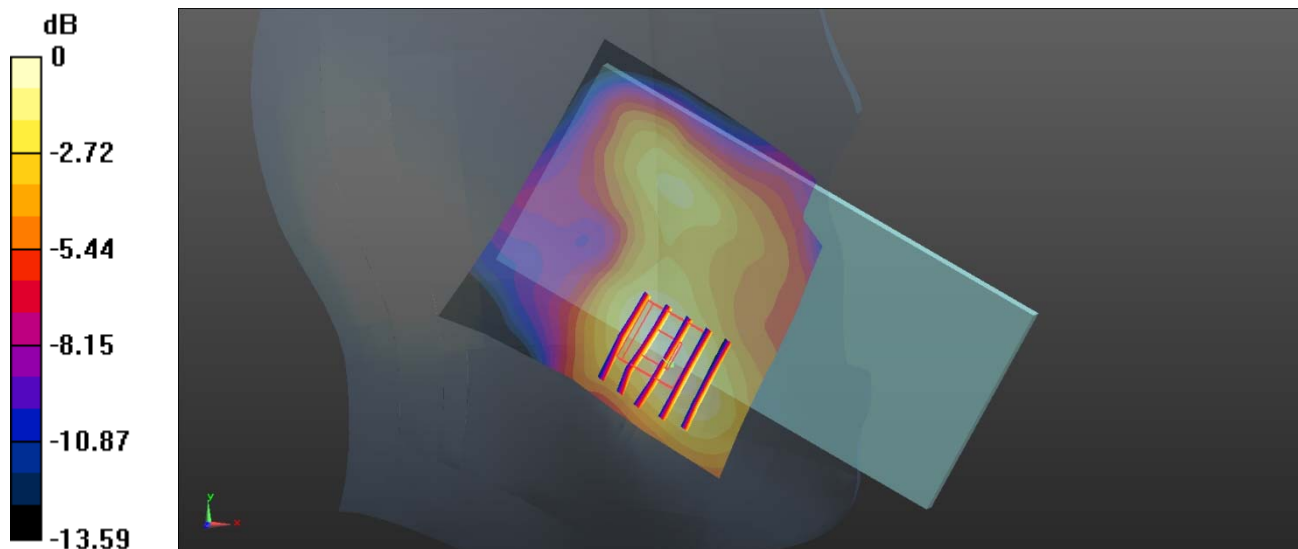
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.245 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.610 W/kg

SAR(1 g) = 0.387 W/kg; SAR(10 g) = 0.241 W/kg

Maximum value of SAR (measured) = 0.529 W/kg



0 dB = 0.529 W/kg = -2.77 dBW/kg

7.Body Plane with Back side 10mm on Mid Channel in WCDMA II

Date: 2021.12.1

Communication System Band: WCDMA II; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 40.165$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9400/Area Scan (81x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.403 W/kg

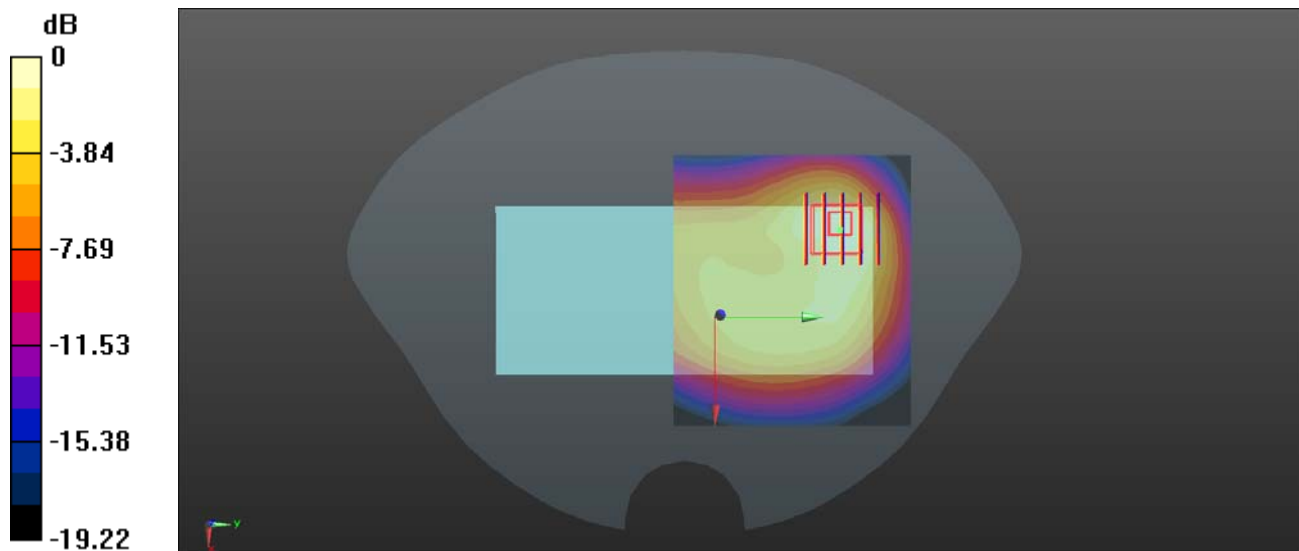
Ch9400/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.8110 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.459 W/kg

SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.133 W/kg

Maximum value of SAR (measured) = 0.361 W/kg



0 dB = 0.361 W/kg = -4.42 dBW/kg

8.Body Plane with Back side 14mm on High Channel in WCDMA II

Date: 2021.12.1

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

Medium parameters used: $f = 1907.6$ MHz; $\sigma = 1.416$ S/m; $\epsilon_r = 40.157$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9538/Area Scan (81x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

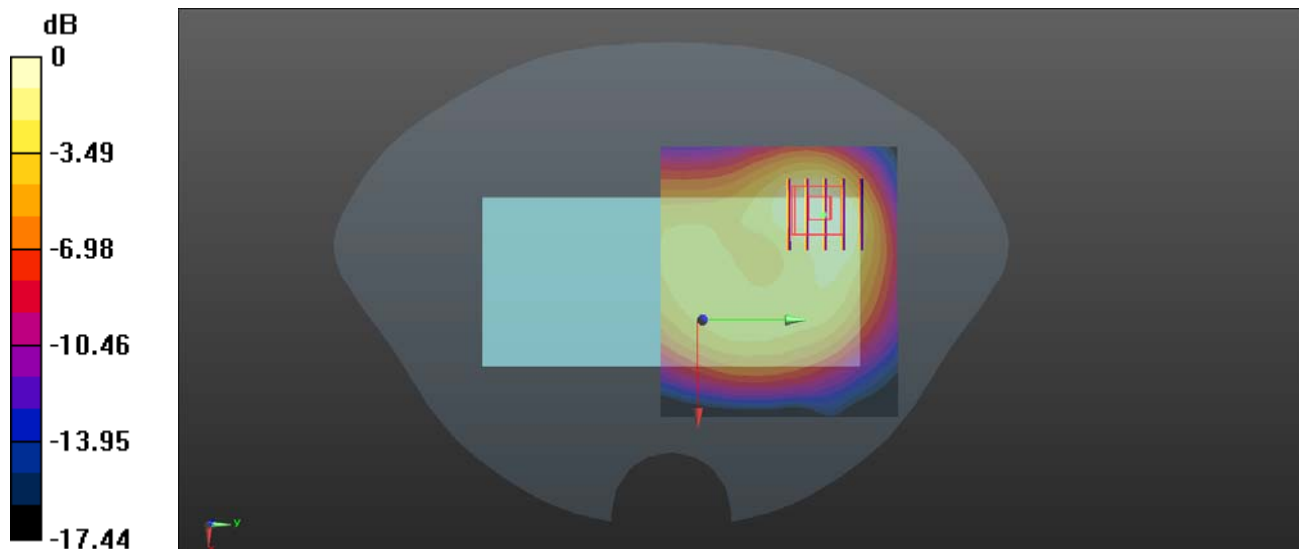
Ch9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.551 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.854 W/kg; SAR(10 g) = 0.487 W/kg

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



0 dB = 1.24 W/kg = 0.93 dBW/kg

9. Left Head with Cheek on Mid Channel in WCDMA IV

Date: 2021.11.29

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

Medium parameters used: $f = 1732.4$ MHz; $\sigma = 1.357$ S/m; $\epsilon_r = 40.374$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.2 Liquid Temperature: 21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1412/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.391 W/kg

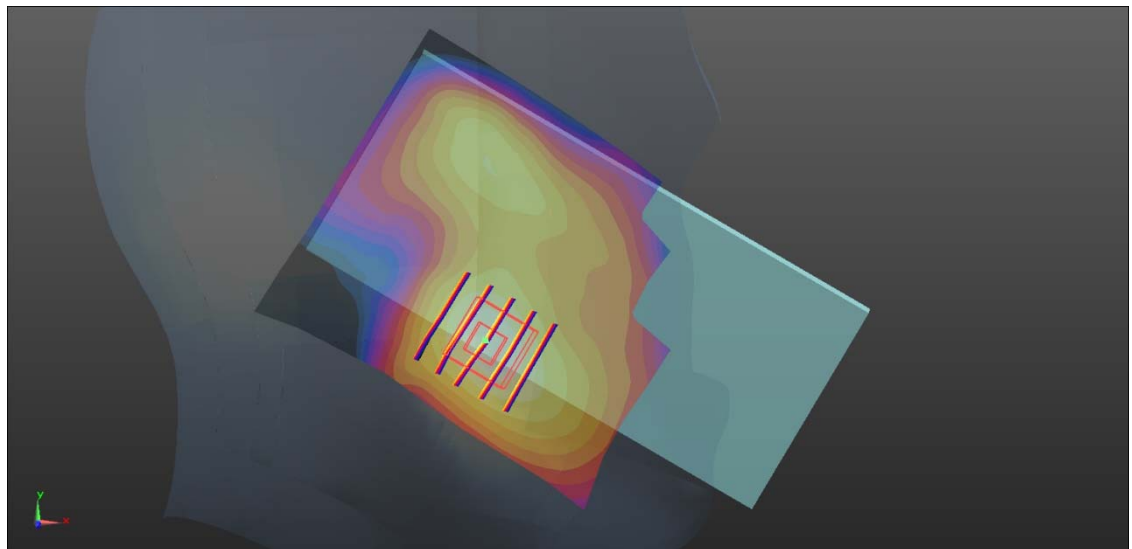
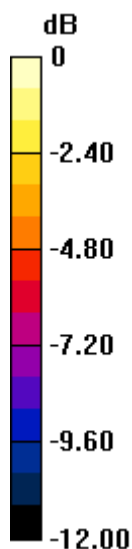
Ch1412/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.738 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.482 W/kg

SAR(1 g) = 0.312 W/kg; SAR(10 g) = 0.206 W/kg

Maximum value of SAR (measured) = 0.418 W/kg



0 dB = 0.418 W/kg = -3.79 dBW/kg

10.Body Plane with Back side 10mm on High Channel in WCDMA IV

Date: 2021.11.29

Communication System Band: WCDMA IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.369$ S/m; $\epsilon_r = 40.346$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1513/Area Scan (81x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.990 W/kg

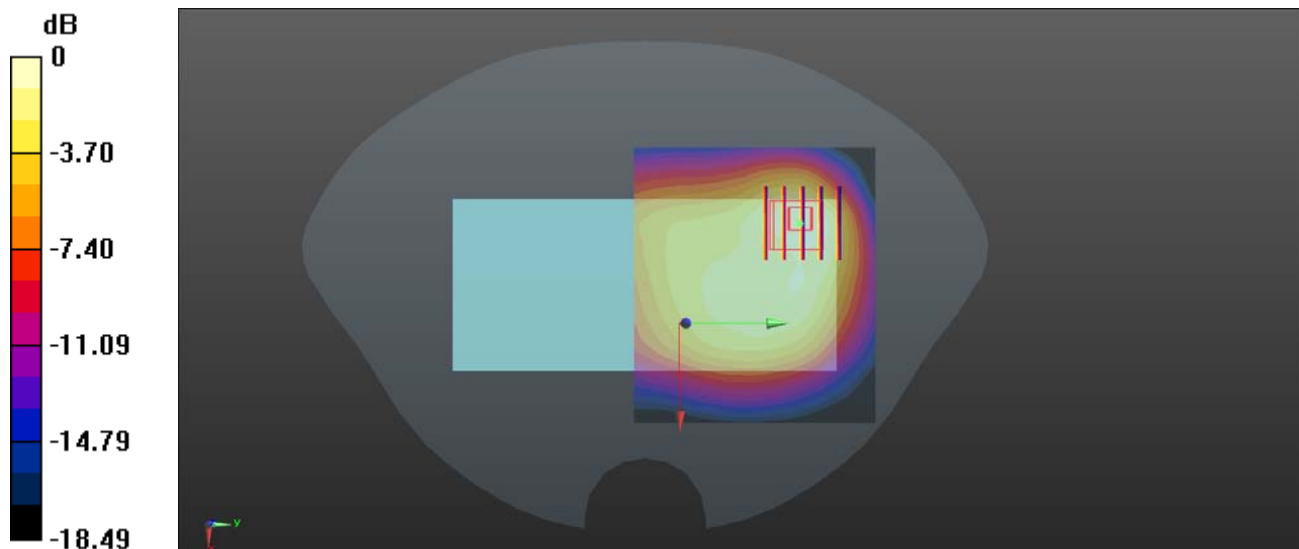
Ch1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.245 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.579 W/kg; SAR(10 g) = 0.326 W/kg

Maximum value of SAR (measured) = 0.869 W/kg



0 dB = 0.869 W/kg = -0.61 dBW/kg

11.Body Plane with Back side 14mm on Mid Channel in WCDMA IV

Date: 2021.11.29

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

Medium parameters used: $f = 1732.4$ MHz; $\sigma = 1.357$ S/m; $\epsilon_r = 40.374$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1412/Area Scan (81x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

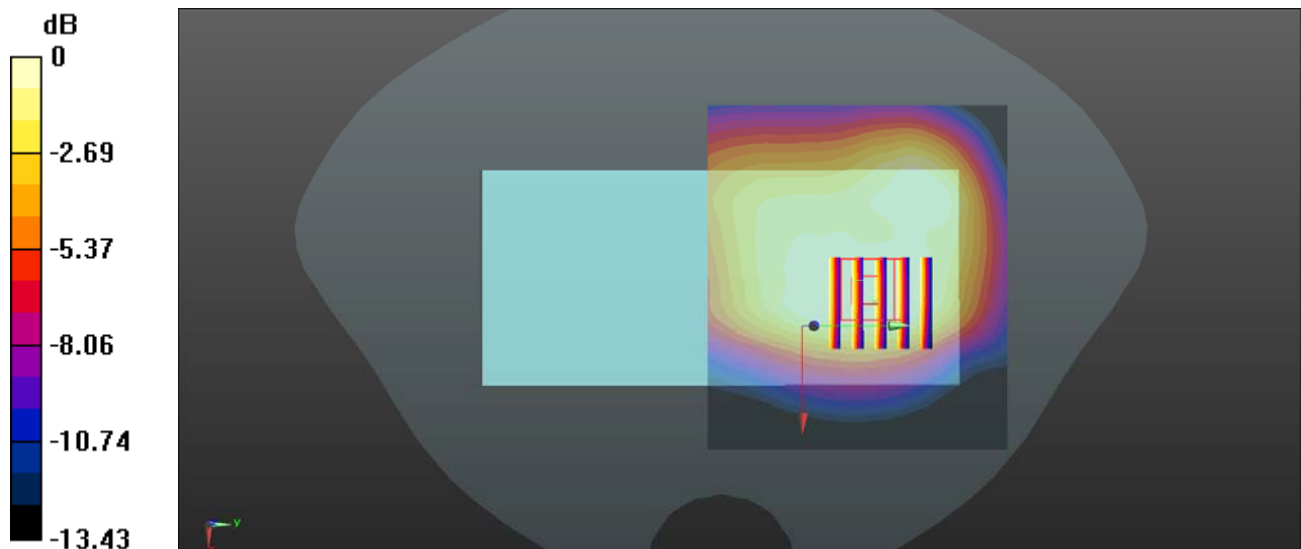
Ch1412/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.618 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.902 W/kg

SAR(1 g) = 0.590 W/kg; SAR(10 g) = 0.395 W/kg

Maximum value of SAR (measured) = 0.779 W/kg



0 dB = 0.779 W/kg = -1.08 dBW/kg

12.Right Head with Cheek on High Channel in WCDMA V

Date: 2021.11.27

Communication System Band: WCDMA V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 846.6$ MHz; $\sigma = 0.936$ S/m; $\epsilon_r = 42.179$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.4 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.10, 10.10, 10.10); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.275 W/kg

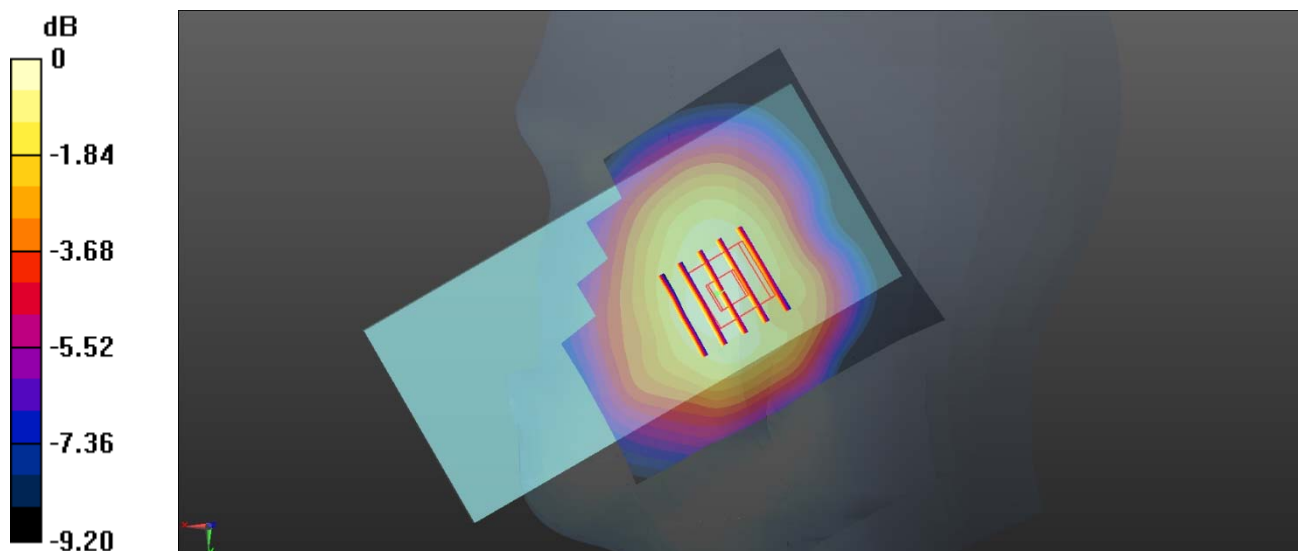
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.646 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.308 W/kg

SAR(1 g) = 0.229 W/kg; SAR(10 g) = 0.173 W/kg

Maximum value of SAR (measured) = 0.281 W/kg



0 dB = 0.281 W/kg = -5.51 dBW/kg

13.Body Plane with Back side 10mm on High Channel in WCDMA V

Date: 2021.11.27

Communication System Band: WCDMA V; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 847$ MHz; $\sigma = 0.936$ S/m; $\epsilon_r = 42.179$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.10, 10.10, 10.10); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4233/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.601 W/kg

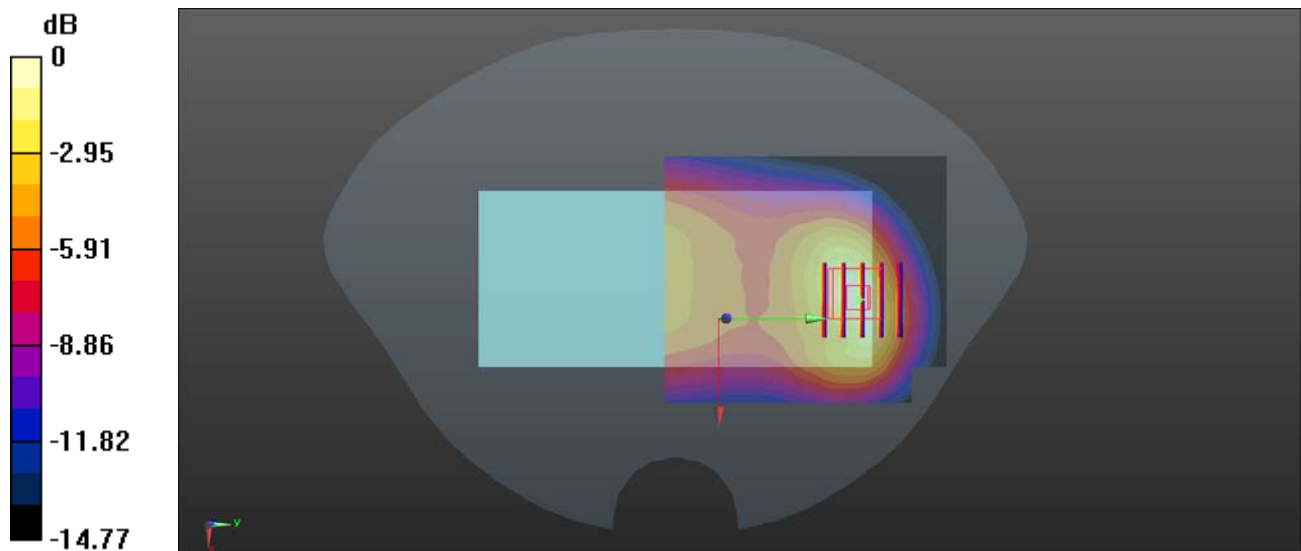
Ch4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.34 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.791 W/kg

SAR(1 g) = 0.437 W/kg; SAR(10 g) = 0.256 W/kg

Maximum value of SAR (measured) = 0.659 W/kg



0 dB = 0.659 W/kg = -1.81 dBW/kg

14.Right Head with Cheek on Mid Channel in LTE Band 12

Date: 2021.11.25

Communication System Band: Band 12; Frequency: 707.5 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 42.651$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23095/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.299 W/kg

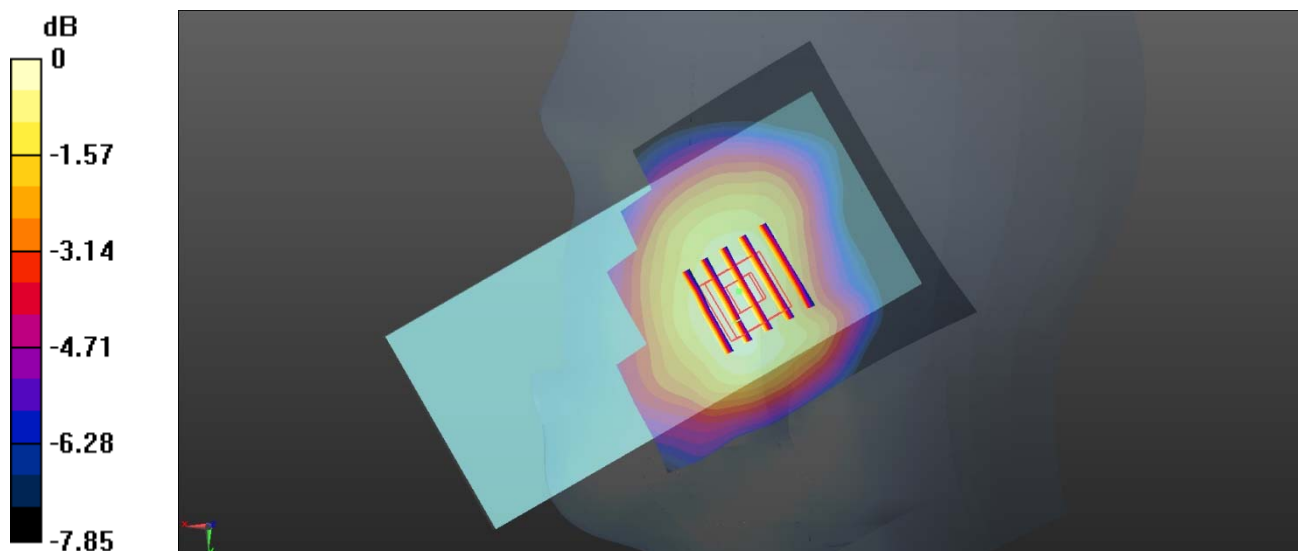
Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.972 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.323 W/kg

SAR(1 g) = 0.246 W/kg; SAR(10 g) = 0.194 W/kg

Maximum value of SAR (measured) = 0.297 W/kg



0 dB = 0.297 W/kg = -5.27 dBW/kg

15.Body Plane with Right side 10mm on Mid Channel in LTE Band 12

Date: 2021.11.25

Communication System Band: Band 12; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.909$ S/m; $\epsilon_r = 42.651$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch23095/Area Scan (41x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.529 W/kg

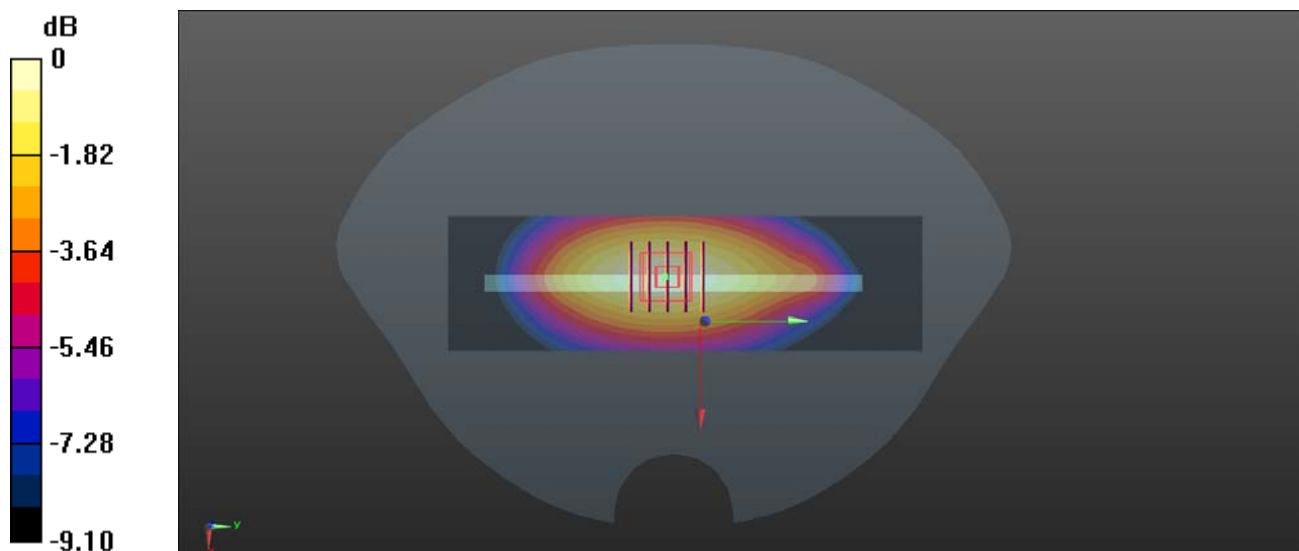
Ch23095/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.351 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.589 W/kg

SAR(1 g) = 0.412 W/kg; SAR(10 g) = 0.288 W/kg

Maximum value of SAR (measured) = 0.527 W/kg



0 dB = 0.527 W/kg = -2.78 dBW/kg

16. Left Head with Cheek on Mid Channel in LTE Band 25

Date: 2021.12.1

Communication System Band: Band 25; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 40.165$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.3 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch26340/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.379 W/kg

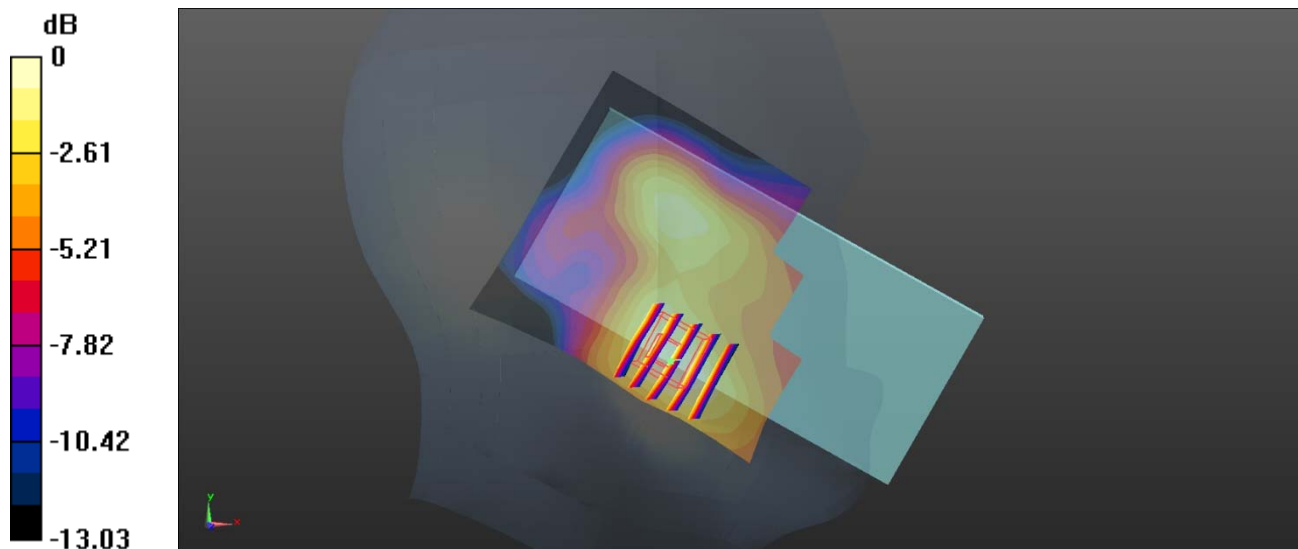
Ch26340/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.921 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.449 W/kg

SAR(1 g) = 0.279 W/kg; SAR(10 g) = 0.174 W/kg

Maximum value of SAR (measured) = 0.382 W/kg



0 dB = 0.382 W/kg = -4.18 dBW/kg

17.Body Plane with Back side 10mm on Mid Channel in LTE Band 25

Date: 2021.12.1

Communication System Band: Band 25; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 40.165$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch26340/Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.564 W/kg

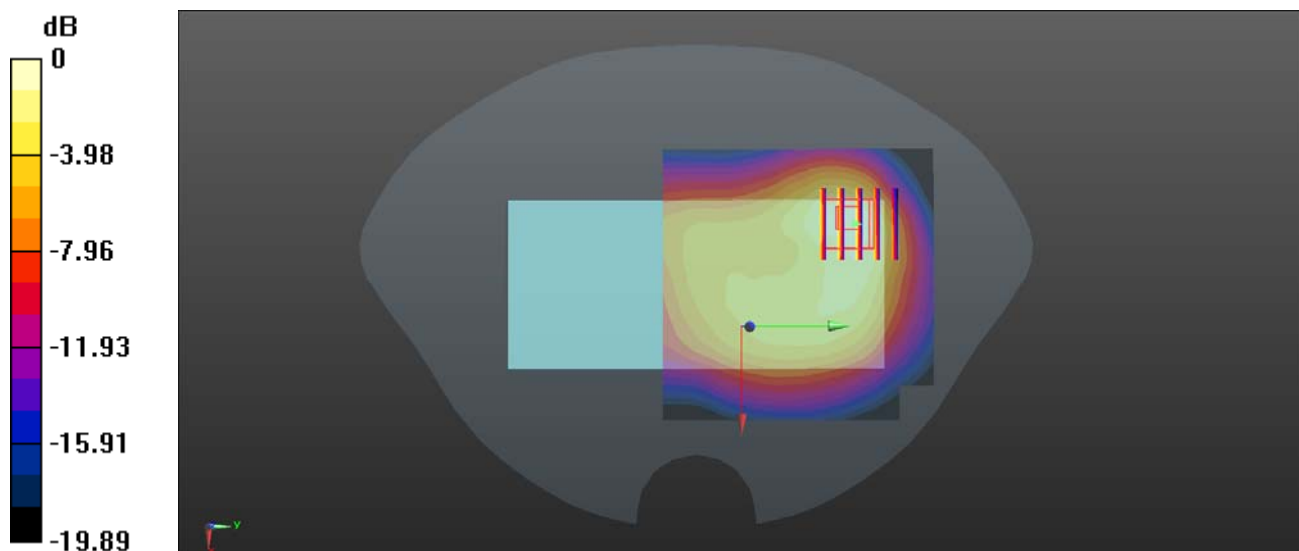
Ch26340/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.7410 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.631 W/kg

SAR(1 g) = 0.332 W/kg; SAR(10 g) = 0.180 W/kg

Maximum value of SAR (measured) = 0.501 W/kg



0 dB = 0.501 W/kg = -3.00 dBW/kg

18.Body Plane with Back side 14mm on Mid Channel in LTE Band 25

Date: 2021.12.1

Communication System Band: Band 25; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 40.165$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.57, 8.57, 8.57); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch26340/Area Scan (81x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.464 W/kg

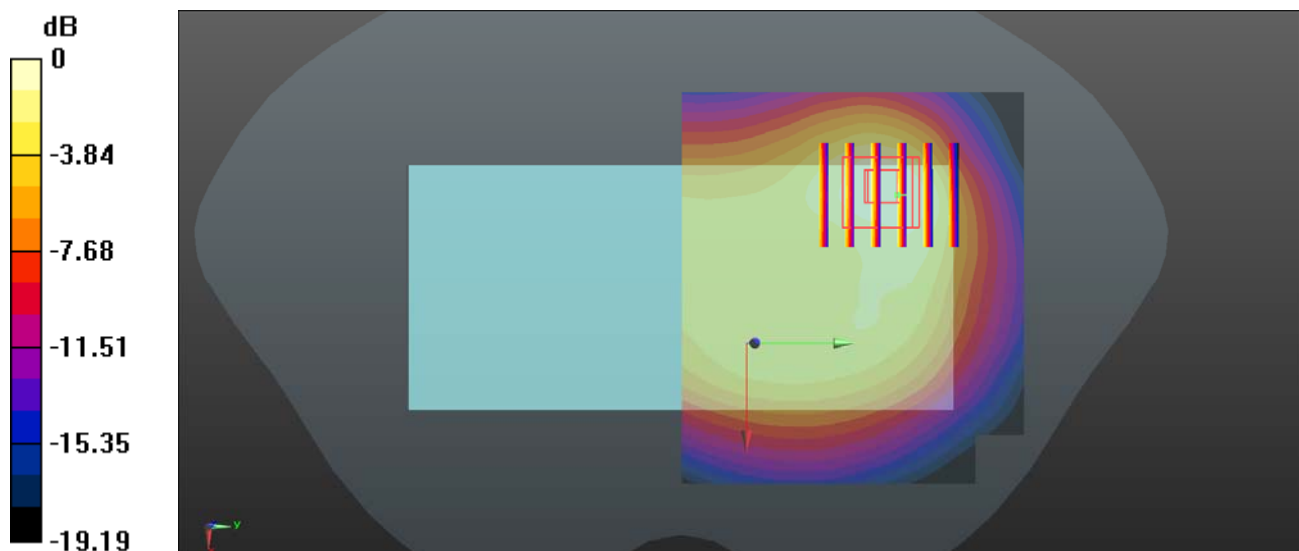
Ch26340/Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.165 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.562 W/kg

SAR(1 g) = 0.308 W/kg; SAR(10 g) = 0.172 W/kg

Maximum value of SAR (measured) = 0.449 W/kg



0 dB = 0.449 W/kg = -3.48 dBW/kg

19.Right Head with Cheek on Mid Channel in LTE Band 26

Date: 2021.11.27

Communication System Band: Band 26; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 831.5$ MHz; $\sigma = 0.931$ S/m; $\epsilon_r = 42.23$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature: 22.4 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.10, 10.10, 10.10); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch26865/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.381 W/kg

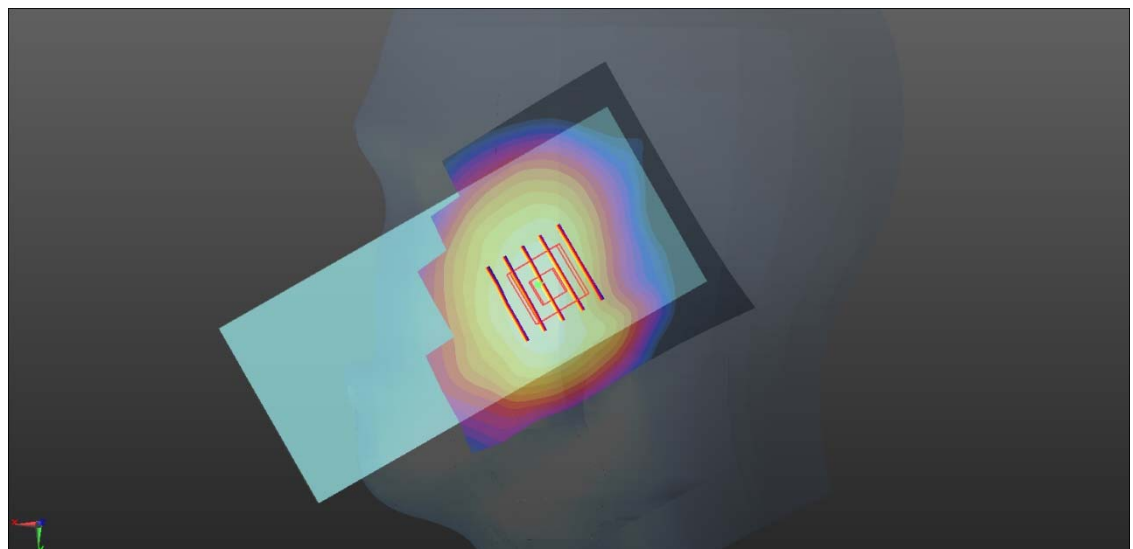
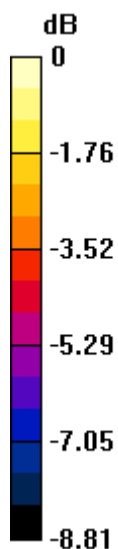
Configuration/Ch26865/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.969 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.386 W/kg

SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.227 W/kg

Maximum value of SAR (measured) = 0.353 W/kg



0 dB = 0.353 W/kg = -4.52 dBW/kg

20.Body Plane with Back side 10mm on Mid Channel in LTE Band 26

Date: 2021.11.27

Communication System Band: Band 26; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 831.5$ MHz; $\sigma = 0.931$ S/m; $\epsilon_r = 42.23$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.10, 10.10, 10.10); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch26865/Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.649 W/kg

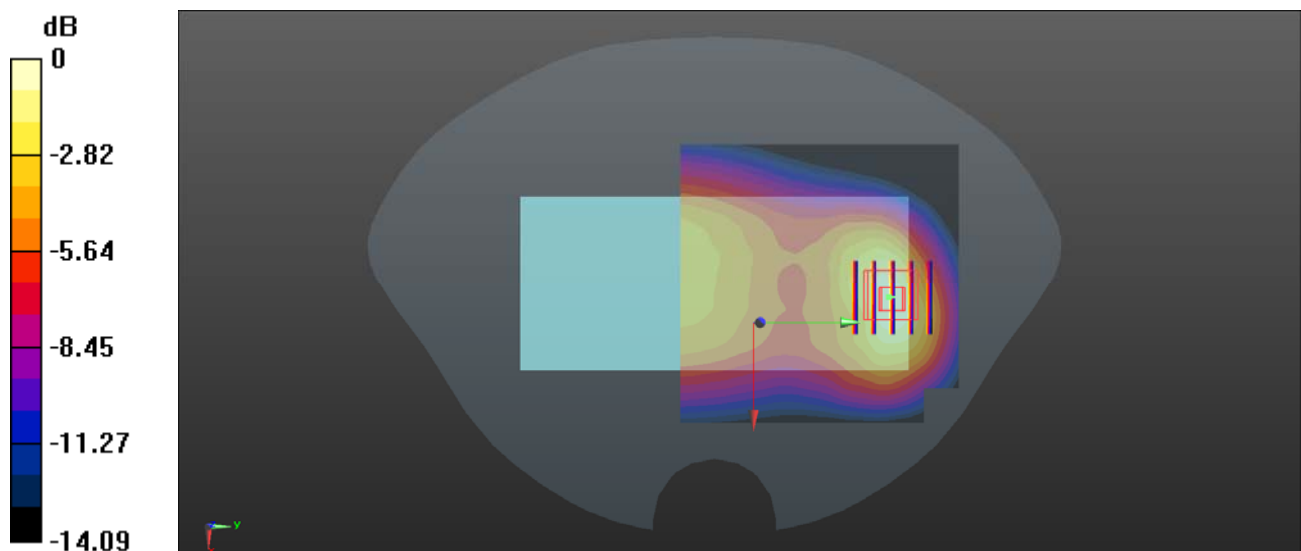
Ch26865/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.369 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.825 W/kg

SAR(1 g) = 0.463 W/kg; SAR(10 g) = 0.273 W/kg

Maximum value of SAR (measured) = 0.680 W/kg



0 dB = 0.680 W/kg = -1.67 dBW/kg

21.Body Plane with Back side 14mm on Mid Channel in LTE Band 26

Date: 2021.11.27

Communication System Band: Band 26; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 831.5$ MHz; $\sigma = 0.931$ S/m; $\epsilon_r = 42.23$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.10, 10.10, 10.10); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch26865/Area Scan (81x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.302 W/kg

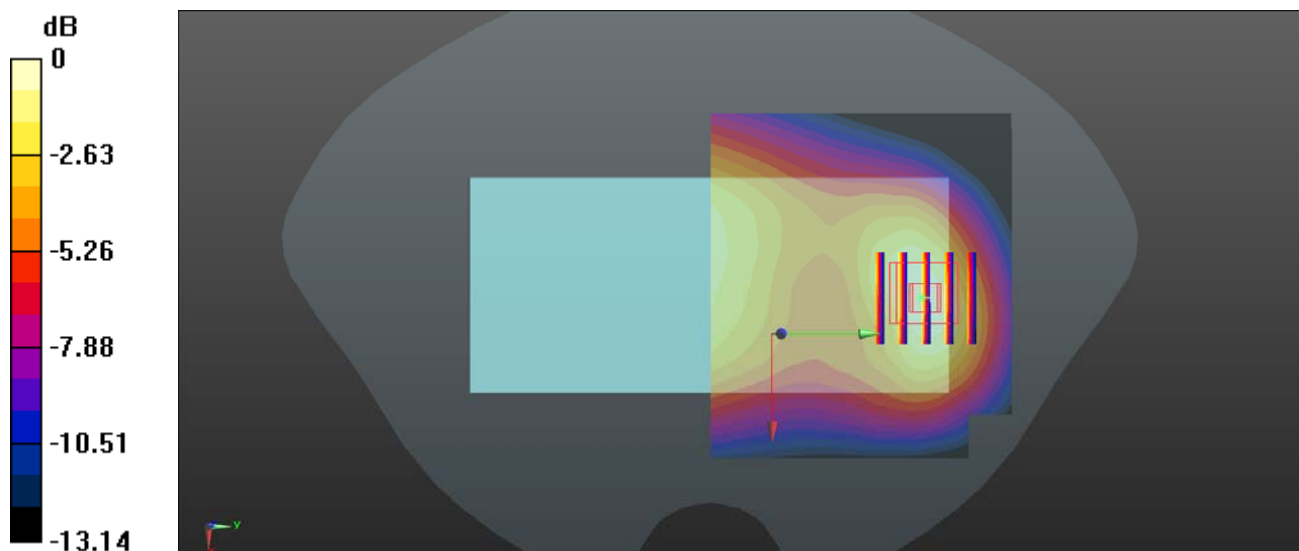
Ch26865/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.545 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.358 W/kg

SAR(1 g) = 0.217 W/kg; SAR(10 g) = 0.134 W/kg

Maximum value of SAR (measured) = 0.306 W/kg



0 dB = 0.306 W/kg = -5.14 dBW/kg

22.Left Head with Cheek on Low Channel in LTE Band 66

Date: 2021.11.29

Communication System Band: Band 66; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.35$ S/m; $\epsilon_r = 40.39$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.2 Liquid Temperature: 21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch132072/Area Scan (71x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.387 W/kg

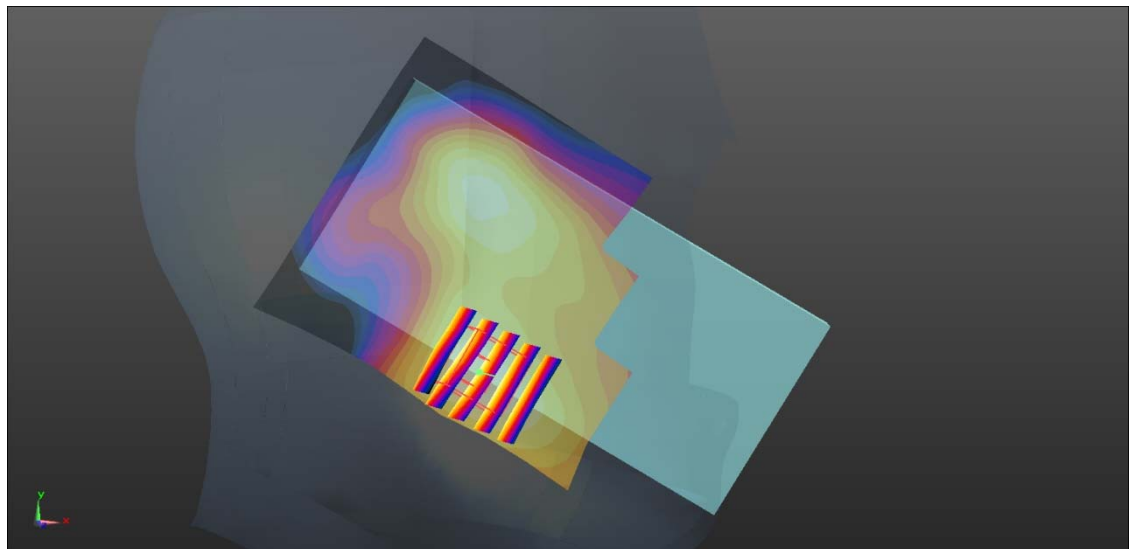
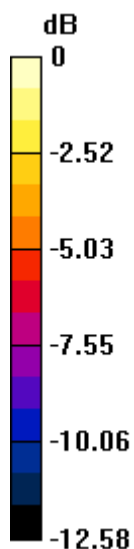
Ch132072/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 2.337 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.424 W/kg

SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.183 W/kg

Maximum value of SAR (measured) = 0.373 W/kg



0 dB = 0.373 W/kg = -4.28 dBW/kg

23.Body Plane with Back side 10mm on Mid Channel in LTE Band 66

Date: 2021.11.29

Communication System Band: Band 66; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.365$ S/m; $\epsilon_r = 40.358$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch132322/Area Scan (81x81x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.676 W/kg

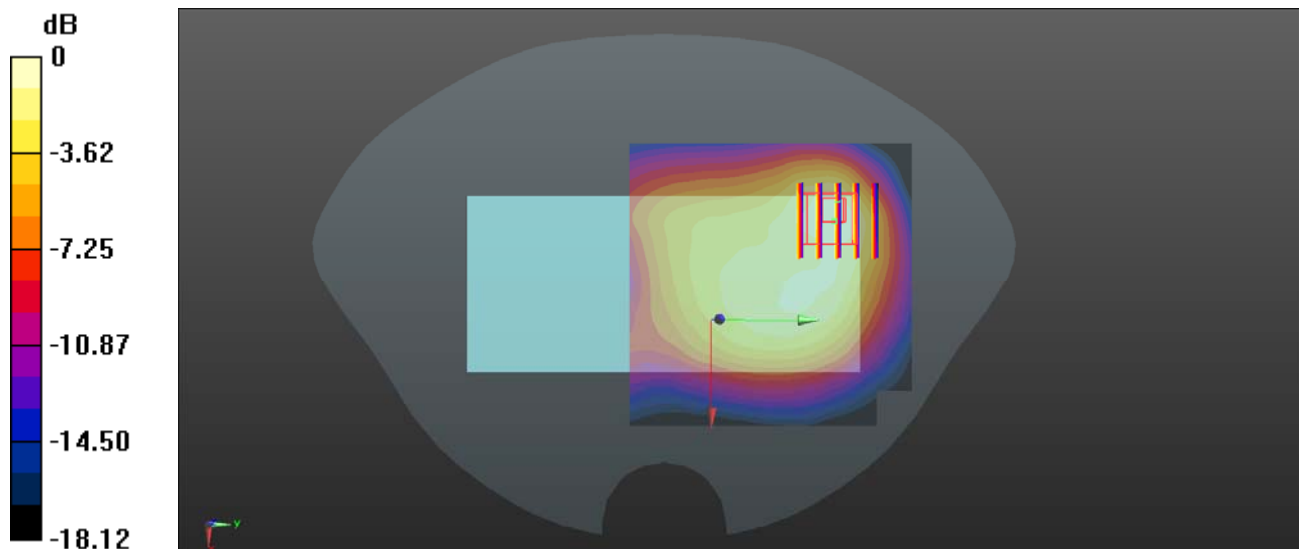
Ch132322/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 2.173 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.747 W/kg

SAR(1 g) = 0.394 W/kg; SAR(10 g) = 0.223 W/kg

Maximum value of SAR (measured) = 0.590 W/kg



0 dB = 0.590 W/kg = -2.29 dBW/kg

24.Body Plane with Back side 14mm on Low Channel in LTE Band 66

Date: 2021.11.29

Communication System Band: Band 66; Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.35$ S/m; $\epsilon_r = 40.39$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.7

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.71, 8.71, 8.71); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch132072/Area Scan (81x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.513 W/kg

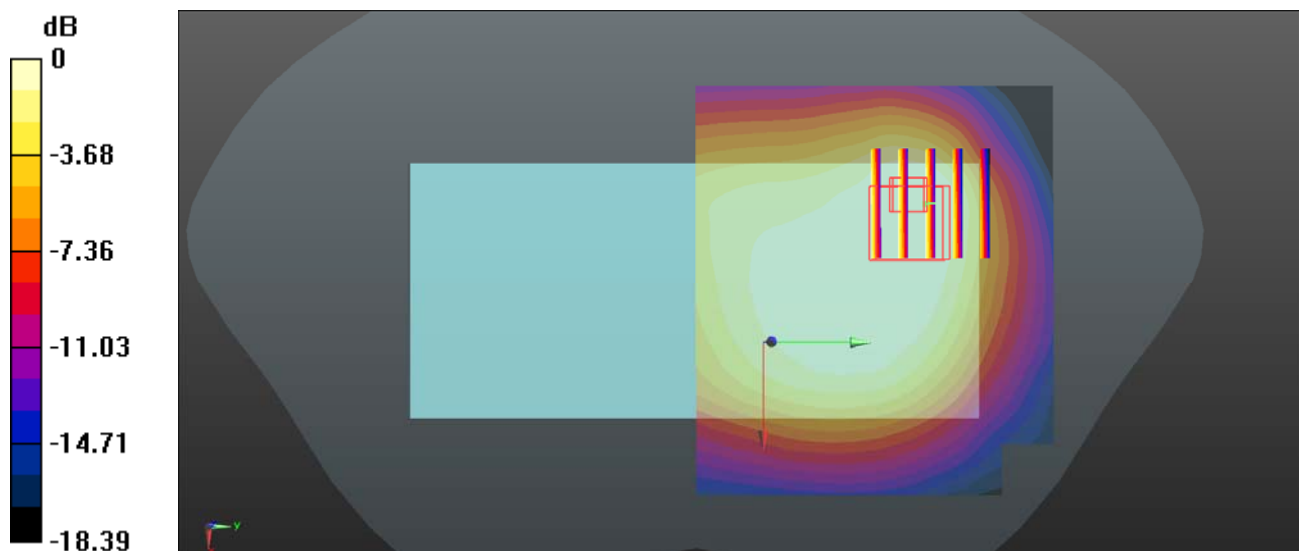
Ch132072/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 1.329 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.579 W/kg

SAR(1 g) = 0.321 W/kg; SAR(10 g) = 0.193 W/kg

Maximum value of SAR (measured) = 0.456 W/kg



0 dB = 0.456 W/kg = -3.41 dBW/kg

25.Right Head with Cheek on Mid Channel in LTE Band 71

Date: 2021.11.25

Communication System Band: Band 71; Frequency: 683 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 683$ MHz; $\sigma = 0.907$ S/m; $\epsilon_r = 42.743$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.6 Liquid Temperature:21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch133322/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.207 W/kg

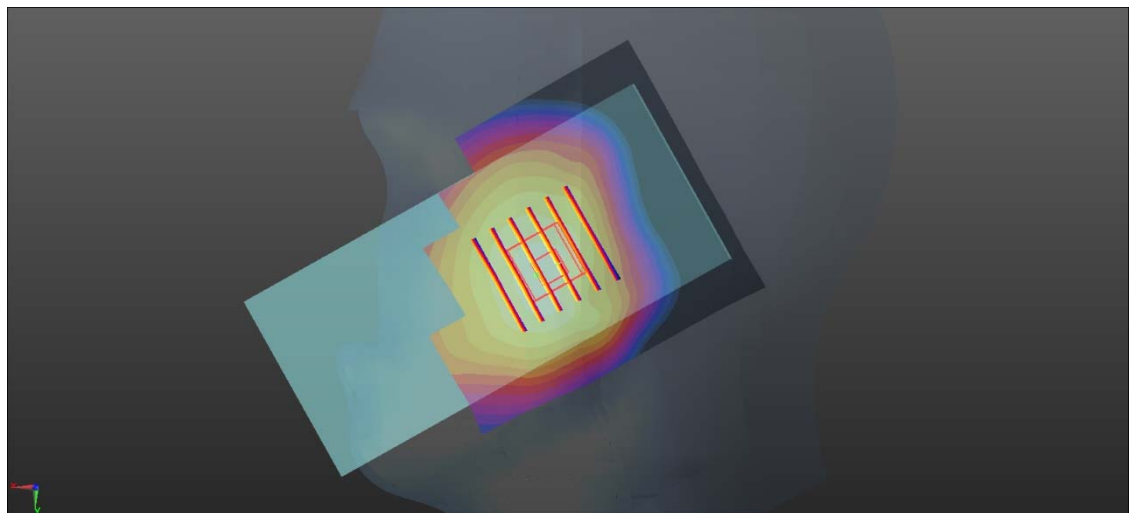
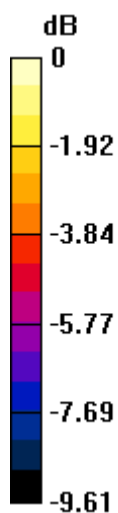
Ch133322/Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.059 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.240 W/kg

SAR(1 g) = 0.182 W/kg; SAR(10 g) = 0.141 W/kg

Maximum value of SAR (measured) = 0.223 W/kg



0 dB = 0.223 W/kg = -6.52 dBW/kg

26.Body Plane with Right side 10mm on Mid Channel in LTE Band 71

Date: 2021.11.25

Communication System Band: Band 71; Frequency: 683 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 683 \text{ MHz}$; $\sigma = 0.907 \text{ S/m}$; $\epsilon_r = 42.743$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.6

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(10.41, 10.41, 10.41); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch133322/Area Scan (41x91x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.405 W/kg

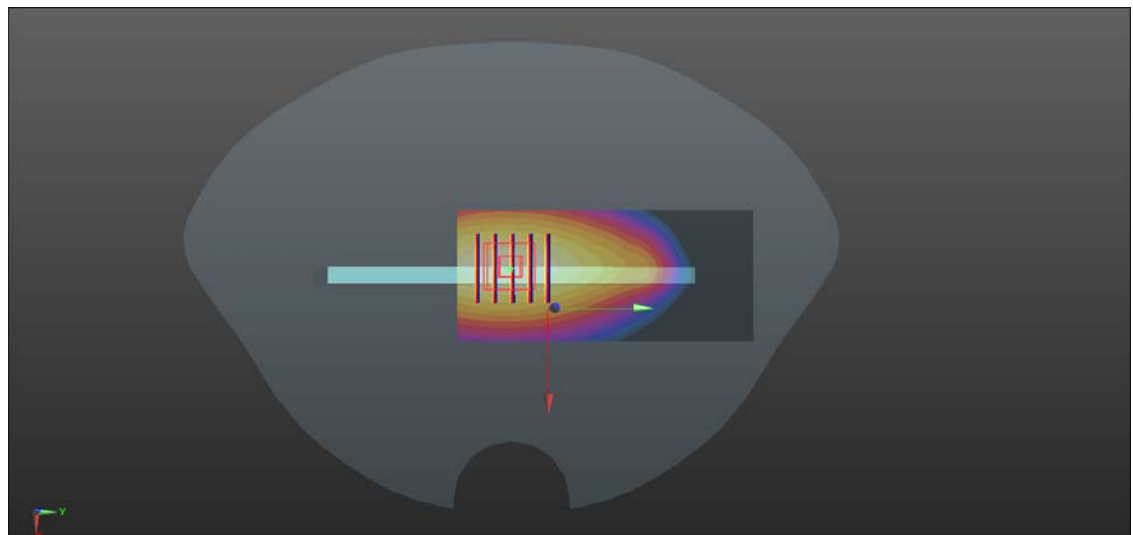
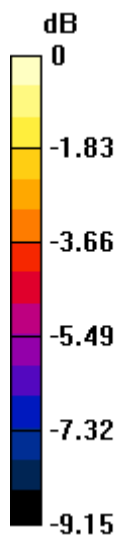
Ch133322/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.665 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.454 W/kg

SAR(1 g) = 0.314 W/kg; SAR(10 g) = 0.219 W/kg

Maximum value of SAR (measured) = 0.407 W/kg



0 dB = 0.407 W/kg = -3.90 dBW/kg

27.Left Head with Cheek on High Channel in LTE Band 41

Date: 2021.12.5

Communication System Band: Band 41; Frequency: 2680 MHz;Duty Cycle: 1:1.59

Medium parameters used: $f = 2680$ MHz; $\sigma = 2.041$ S/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.6 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF((7.94, 7.94, 7.94); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch41490/Area Scan (91x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.218 W/kg

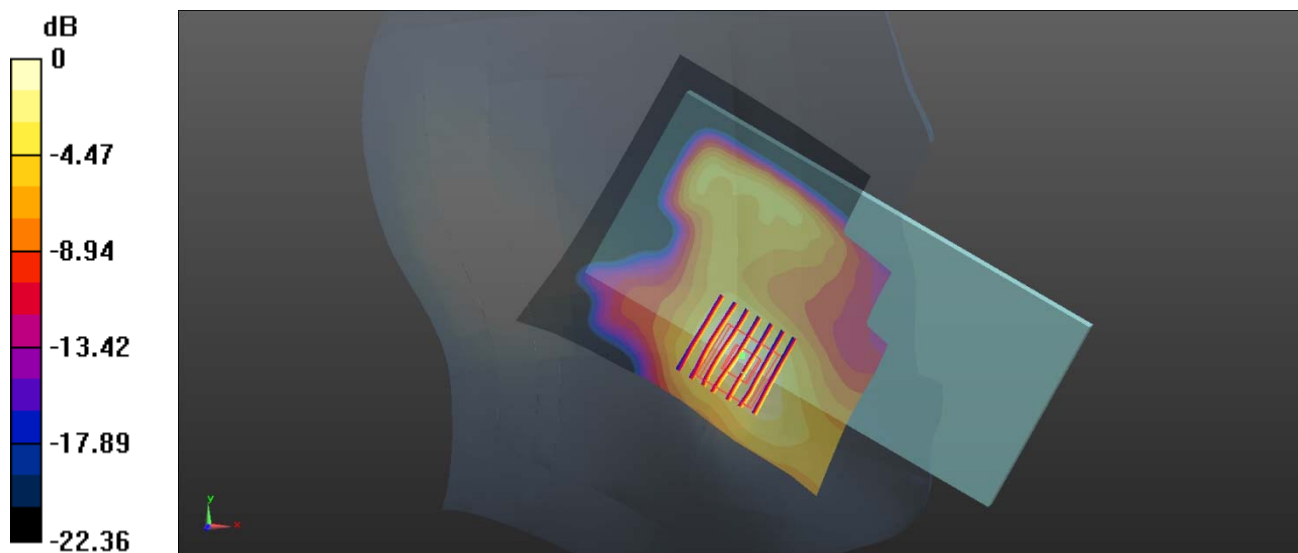
Ch41490/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.173 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.300 W/kg

SAR(1 g) = 0.159 W/kg; SAR(10 g) = 0.079 W/kg

Maximum value of SAR (measured) = 0.241 W/kg



0 dB = 0.241 W/kg = -6.18 dBW/kg

28.Body Plane with Bottom side 10mm on High Channel in LTE Band 41

Date: 2021.12.5

Communication System Band: Band 41; Frequency: 2680 MHz;Duty Cycle: 1:1.59

Medium parameters used: $f = 2680$ MHz; $\sigma = 2.041$ S/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF((7.94, 7.94, 7.94); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch41490/Area Scan (51x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.905 W/kg

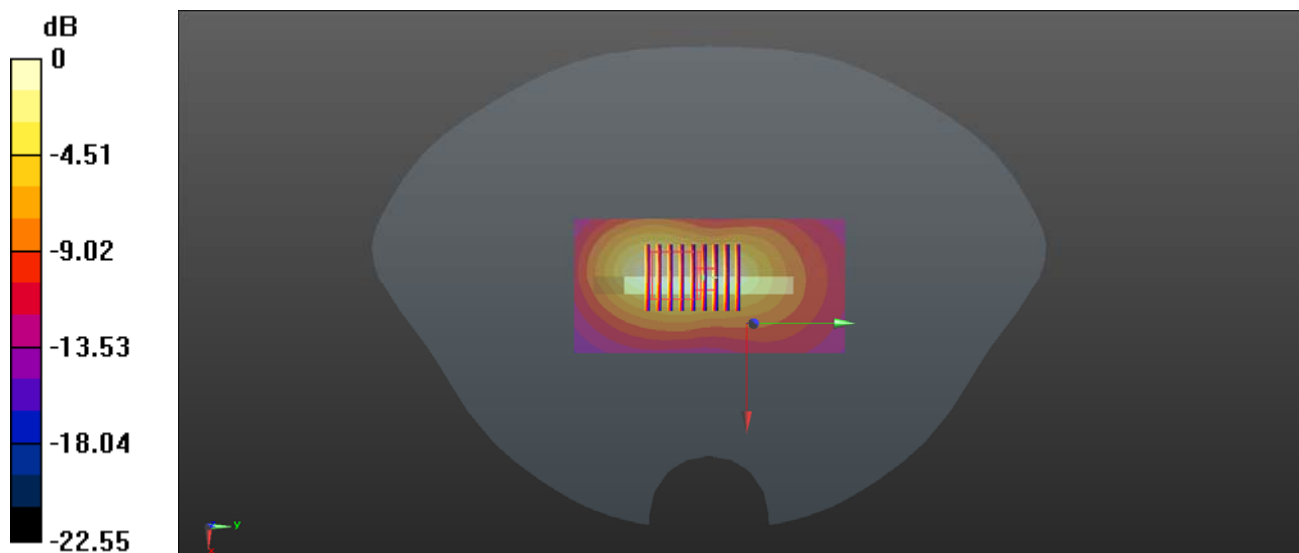
Ch41490/Zoom Scan (7x9x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.905 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.549 W/kg; SAR(10 g) = 0.279 W/kg

Maximum value of SAR (measured) = 0.916 W/kg



0 dB = 0.916 W/kg = -0.38 dBW/kg

29.Left Head with Cheek on High Channel in LTE Band 41_HPUE

Date: 2021.12.5

Communication System Band: Band 41; Frequency: 2680 MHz;Duty Cycle: 1:2.309

Medium parameters used: $f = 2680$ MHz; $\sigma = 2.041$ S/m; $\epsilon_r = 39$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.6 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF((7.94, 7.94, 7.94); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch41490/Area Scan (91x101x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.292 W/kg

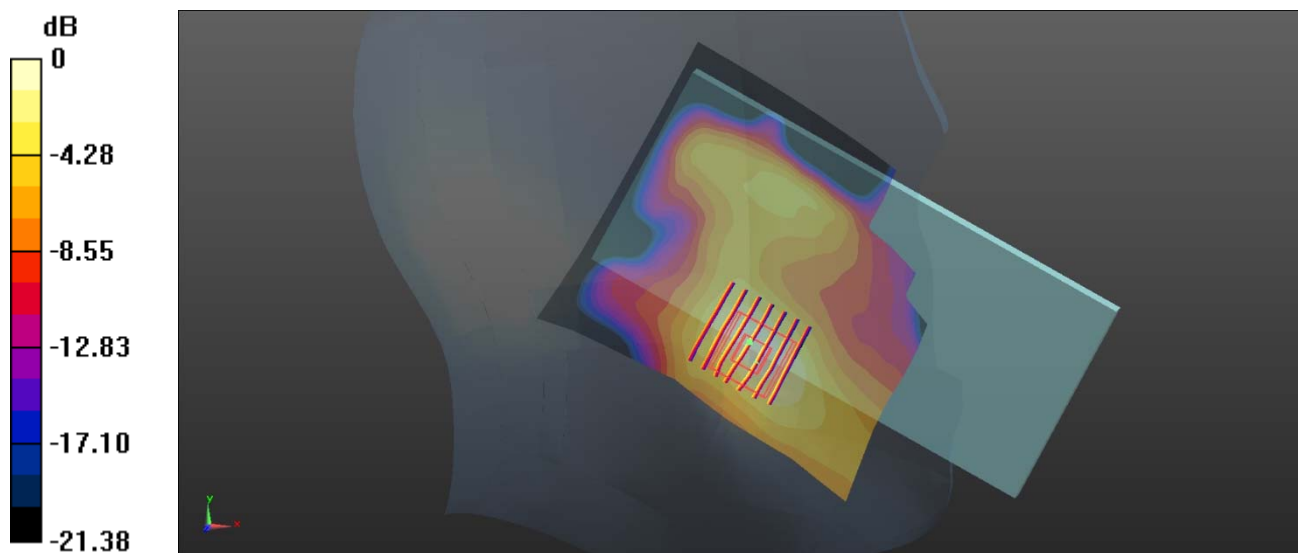
Ch41490/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.830 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.368 W/kg

SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.104 W/kg

Maximum value of SAR (measured) = 0.309 W/kg



0 dB = 0.309 W/kg = -5.10 dBW/kg

30.Body Plane with Bottom side 10mm on Low Channel in LTE Band 41_HPUE

Date: 2021.12.5

Communication System Band: Band 41; Frequency: 2506 MHz;Duty Cycle: 1:2.309

Medium parameters used: $f = 2506$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 39.251$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF((7.94, 7.94, 7.94); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39750/Area Scan (51x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 1.44 W/kg

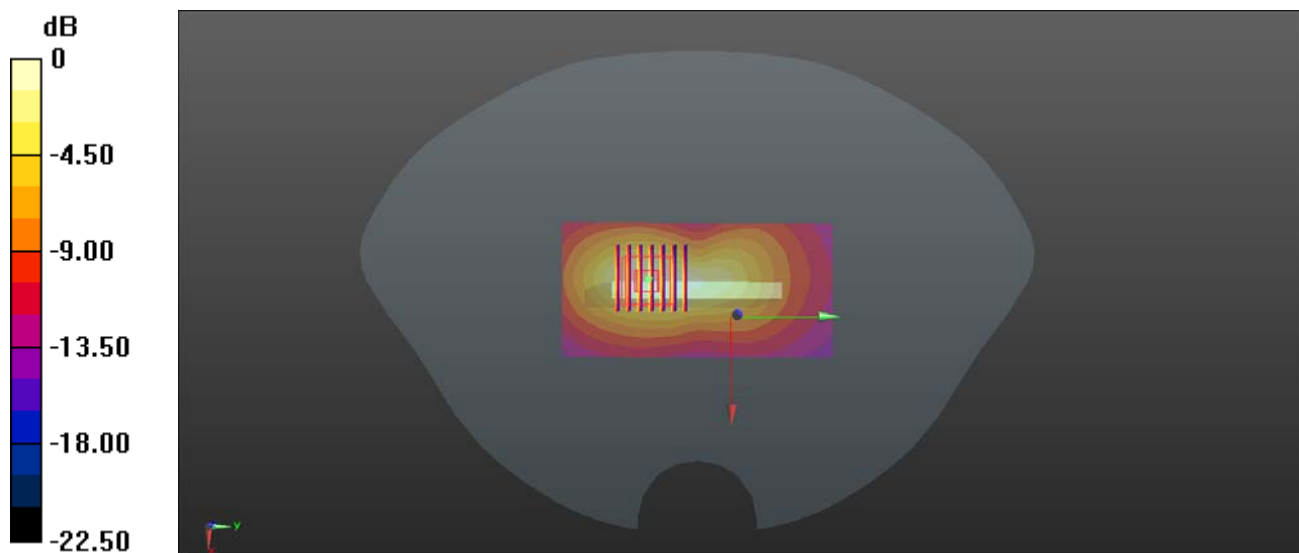
Ch39750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.032 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.896 W/kg; SAR(10 g) = 0.451 W/kg

Maximum value of SAR (measured) = 1.40 W/kg



0 dB = 1.40 W/kg = 1.46 dBW/kg

31.Body Plane with Bottom side 0mm on Low Channel in LTE Band 41_HPUE

Date: 2021.12.5

Communication System Band: Band 41; Frequency: 2506 MHz;Duty Cycle: 1:2.309

Medium parameters used: $f = 2506$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 39.251$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF((7.94, 7.94, 7.94); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39750/Area Scan (51x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 11.3 W/kg

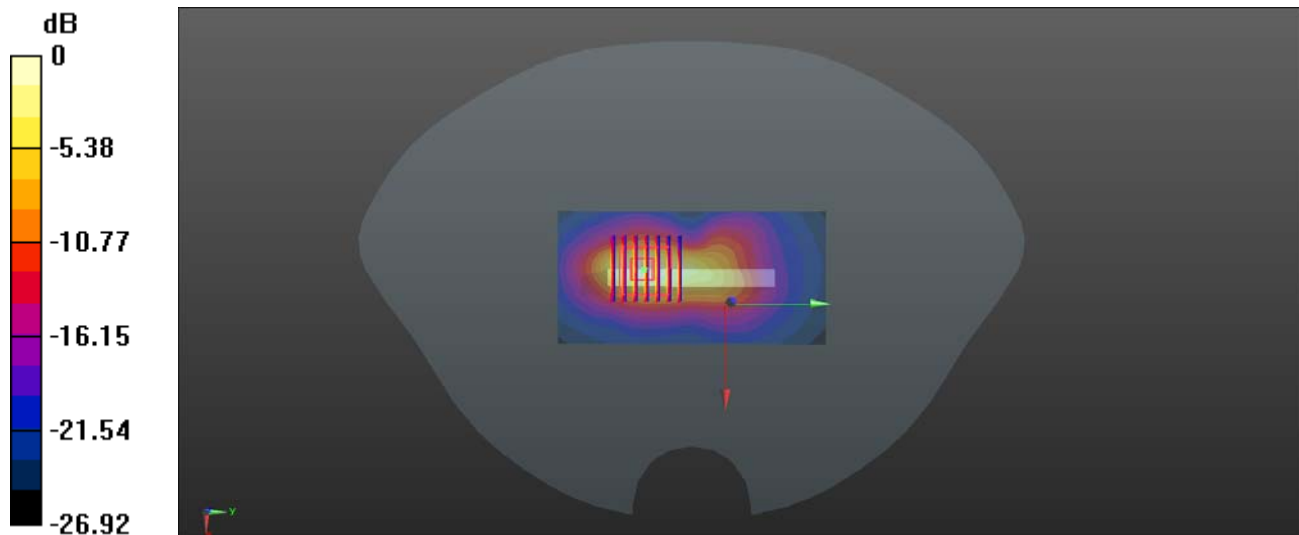
Ch39750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.366 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 13.7 W/kg

SAR(1 g) = 5.88 W/kg; SAR(10 g) = 2.37 W/kg

Maximum value of SAR (measured) = 10.8 W/kg



0 dB = 10.8 W/kg = 10.33 dBW/kg

32.Left Head with Cheek on Low Channel in IEEE 802.11b

Date: 2021.12.14

Communication System Band: 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.781$ S/m; $\epsilon_r = 39.396$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.8 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.19, 8.19, 8.19); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1/Area Scan (91x91x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

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

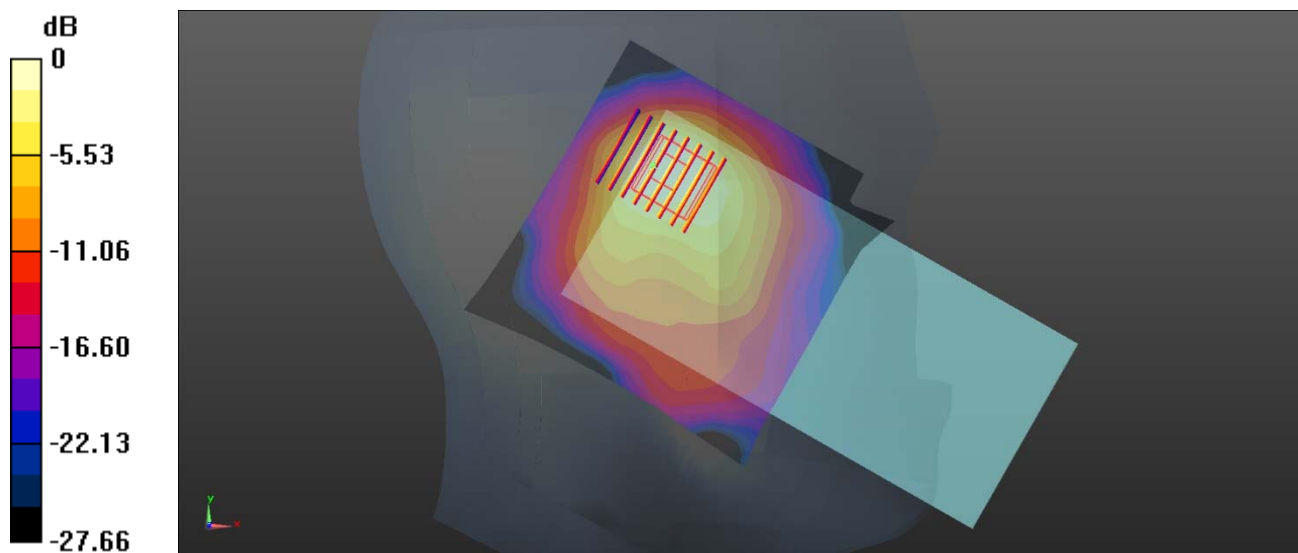
Ch1/Zoom Scan (7x8x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 0.4380 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.686 W/kg; SAR(10 g) = 0.349 W/kg

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



0 dB = 1.07 W/kg = 0.29 dBW/kg

33.Body Plane with Back side 10mm on Mid Channel in IEEE 802.11b

Date: 2021.12.14

Communication System Band: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.798$ S/m; $\epsilon_r = 39.35$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.19, 8.19, 8.19); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch6/Area Scan (101x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.90 W/kg

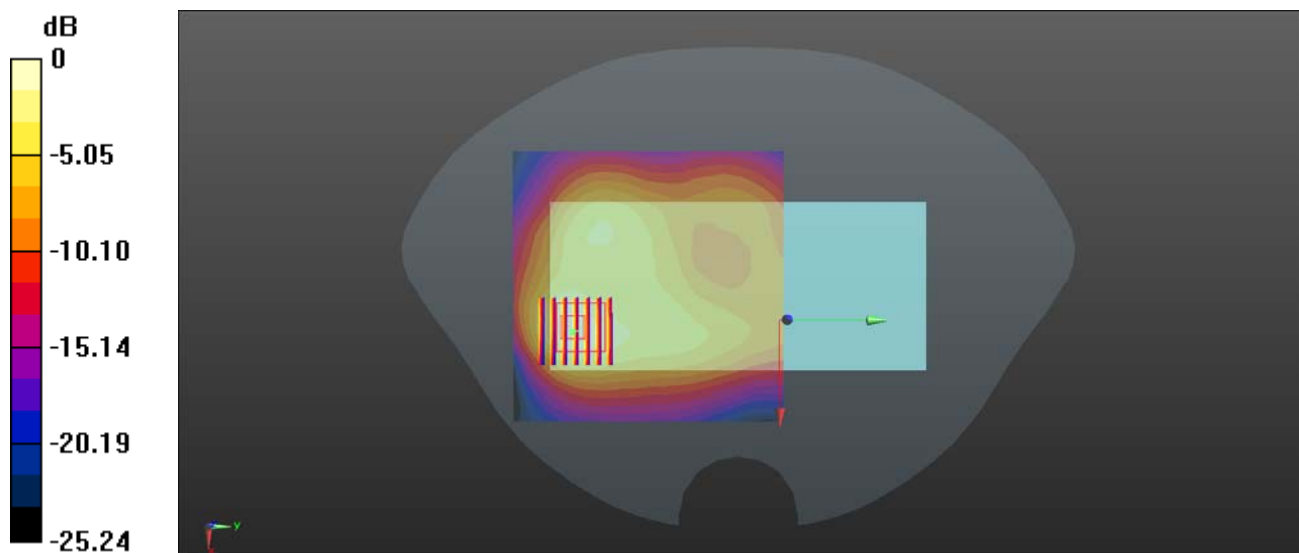
Ch6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.860 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.258 W/kg

Maximum value of SAR (measured) = 0.84 W/kg



0 dB = 0.84 W/kg = 0.26 dBW/kg

34.Left Head with Cheek on Mid Channel in IEEE 802.11ac-80M

Date: 2021.12.7

Communication System Band: 802.11ac-80MHz; Frequency: 5290 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.711$ S/m; $\epsilon_r = 34.912$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.4 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.61, 5.61, 5.61); Calibrated: 2021.07.23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch58/Area Scan (111x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.894 W/kg

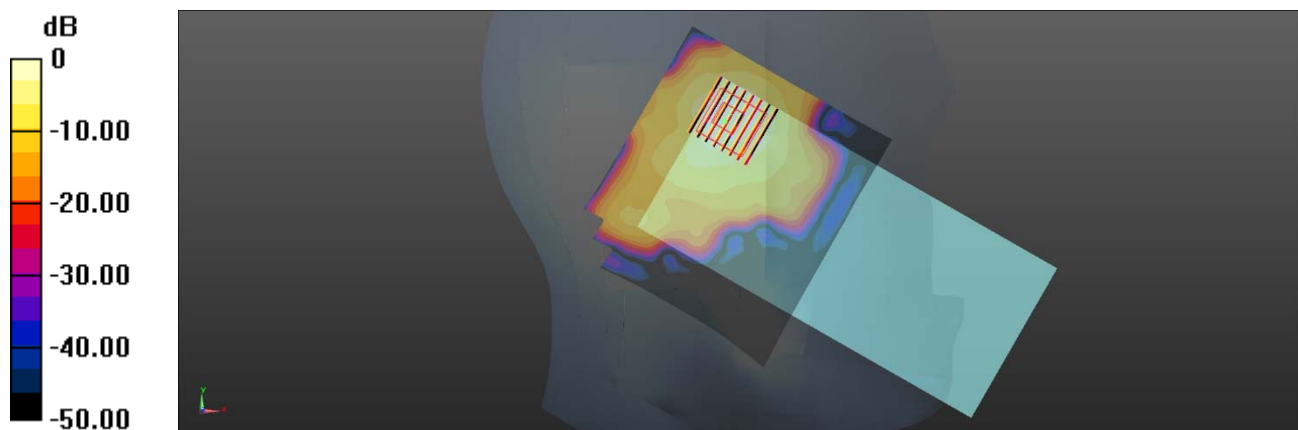
Ch58/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.635 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.142 W/kg

Maximum value of SAR (measured) = 0.947 W/kg



0 dB = 0.947 W/kg = -0.24 dBW/kg

35.Left Head with Cheek on Mid Channel in IEEE 802.11ac-80M

Date: 2021.12.9

Communication System Band: 802.11ac-80MHz; Frequency: 5530 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 5530$ MHz; $\sigma = 4.953$ S/m; $\epsilon_r = 34.429$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.10, 5.10, 5.10); Calibrated: 2021.07.23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch106/Area Scan (111x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.28 W/kg

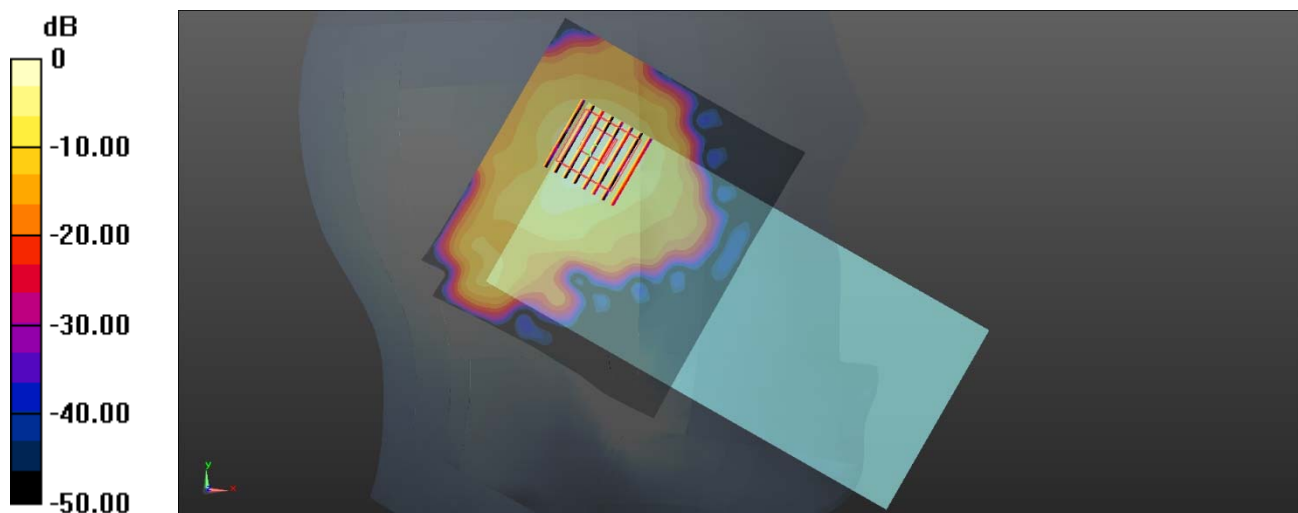
Ch106/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.508 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.40 W/kg

SAR(1 g) = 0.594 W/kg; SAR(10 g) = 0.199 W/kg

Maximum value of SAR (measured) = 1.42 W/kg



0 dB = 1.42 W/kg = 1.52 dBW/kg

36.Left Head with Cheek on Mid Channel in IEEE 802.11ac-80M

Date: 2021.12.10

Communication System Band: 802.11ac-80MHz; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.213$ S/m; $\epsilon_r = 33.952$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.4 Liquid Temperature:21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.15, 5.15, 5.15); Calibrated: 2021.07.23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch155/Area Scan (111x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.28 W/kg

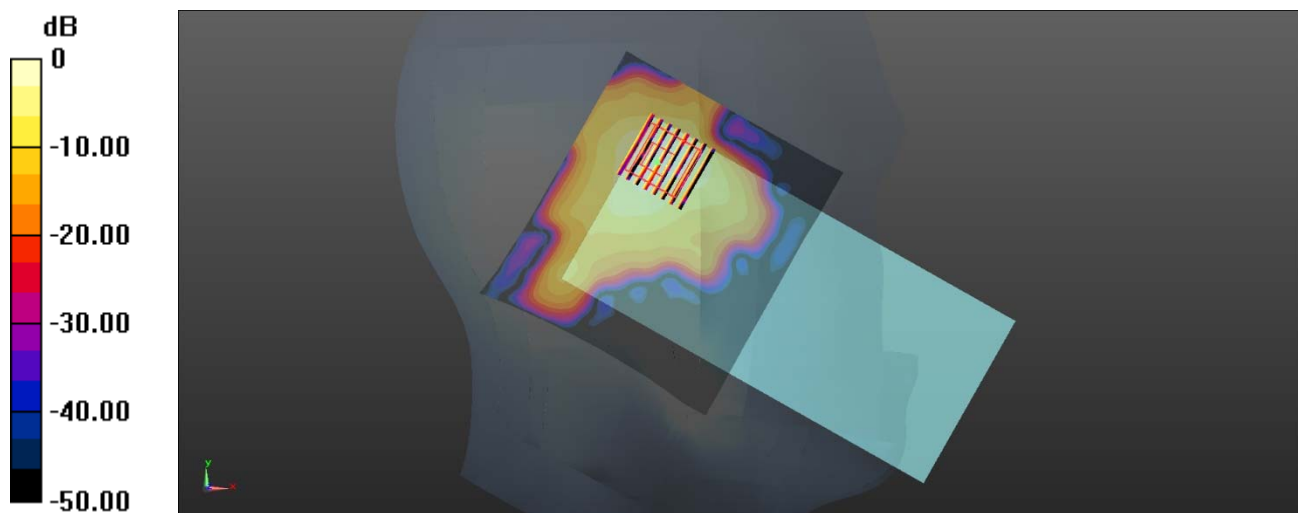
Ch155/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 1.330 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 2.23 W/kg

SAR(1 g) = 0.542 W/kg; SAR(10 g) = 0.174 W/kg

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



0 dB = 1.29 W/kg = 1.11 dBW/kg

37.Body Plane with Right side 10mm on Mid Channel in IEEE 802.11a

Date: 2021.12.7

Communication System Band: 802.11a; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5300$ MHz; $\sigma = 4.722$ S/m; $\epsilon_r = 34.892$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.61, 5.61, 5.61); Calibrated: 2021.07.23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch60/Area Scan (41x81x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.705 W/kg

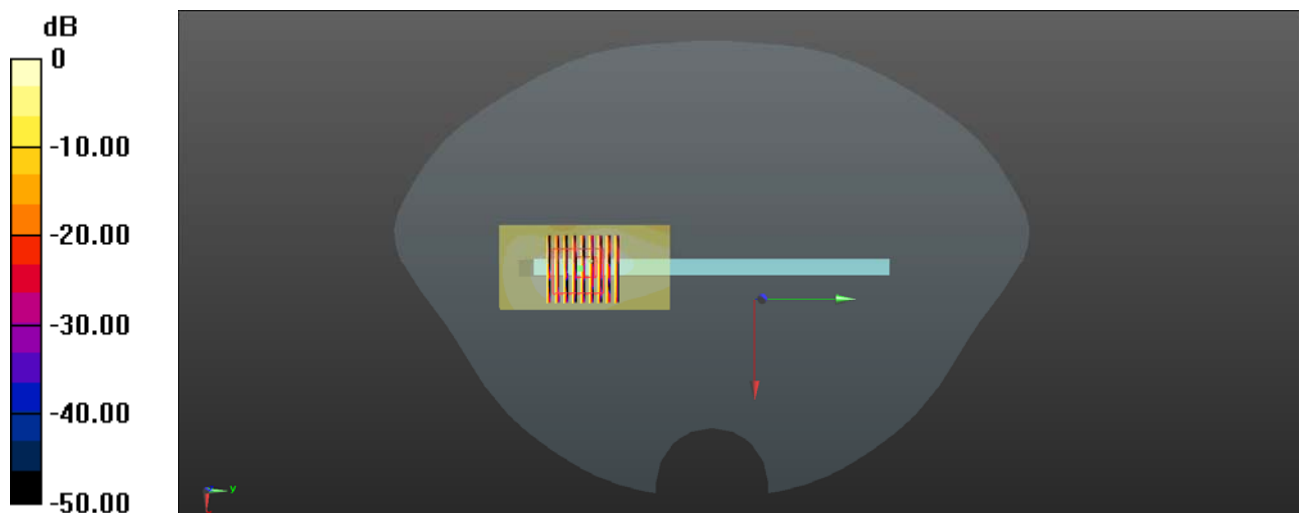
Ch60/Zoom Scan (9x9x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 2.434 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.344 W/kg; SAR(10 g) = 0.137 W/kg

Maximum value of SAR (measured) = 0.750 W/kg



0 dB = 0.750 W/kg = -1.25 dBW/kg

38.Body Plane with Right side 10mm on Low Channel in IEEE 802.11a

Date: 2021.12.9

Communication System Band: 802.11a; Frequency: 5580 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5580$ MHz; $\sigma = 5.01$ S/m; $\epsilon_r = 34.335$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.10, 5.10, 5.10); Calibrated: 2021.07.23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch116/Area Scan (41x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.967 W/kg

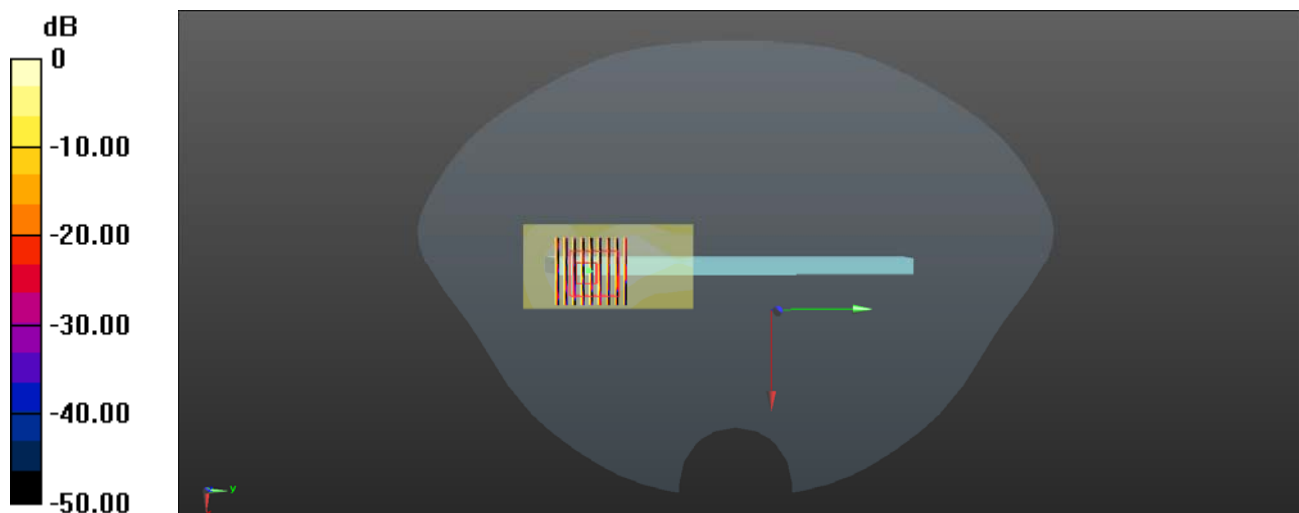
Ch116/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 4.007 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.409 W/kg; SAR(10 g) = 0.165 W/kg

Maximum value of SAR (measured) = 0.927 W/kg



0 dB = 0.927 W/kg = -0.33 dBW/kg

39.Body Plane with Back side 10mm on Low Channel in IEEE 802.11a

Date: 2021.12.10

Communication System Band: 802.11a; Frequency: 5745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.195$ S/m; $\epsilon_r = 34.011$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(5.15, 5.15, 5.15); Calibrated: 2021.07.23
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch149/Area Scan (111x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

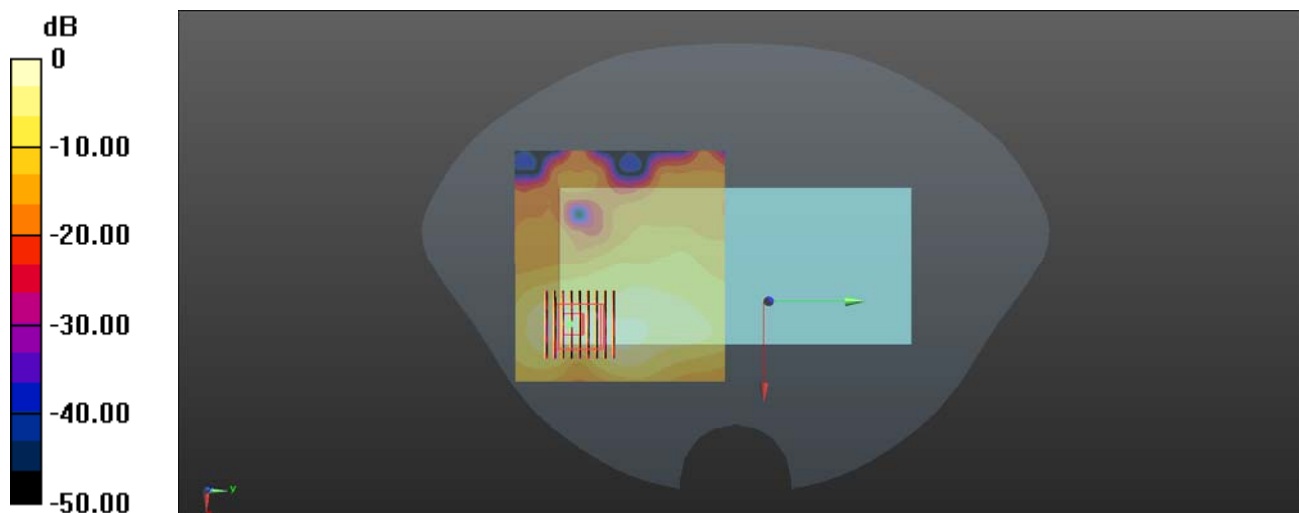
Ch149/Zoom Scan (9x9x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.6900 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.163 W/kg

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



0 dB = 1.23 W/kg = 0.90 dBW/kg

40.Left Head with Cheek on Mid Channel in Bluetooth

Date: 2021.12.3

Communication System Band: Bluetooth 2.0; Frequency: 2441 MHz; Duty Cycle: 1:1.2

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.801$ S/m; $\epsilon_r = 39.342$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature: 22.8 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.19, 8.19, 8.19); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (91x91x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.107 W/kg

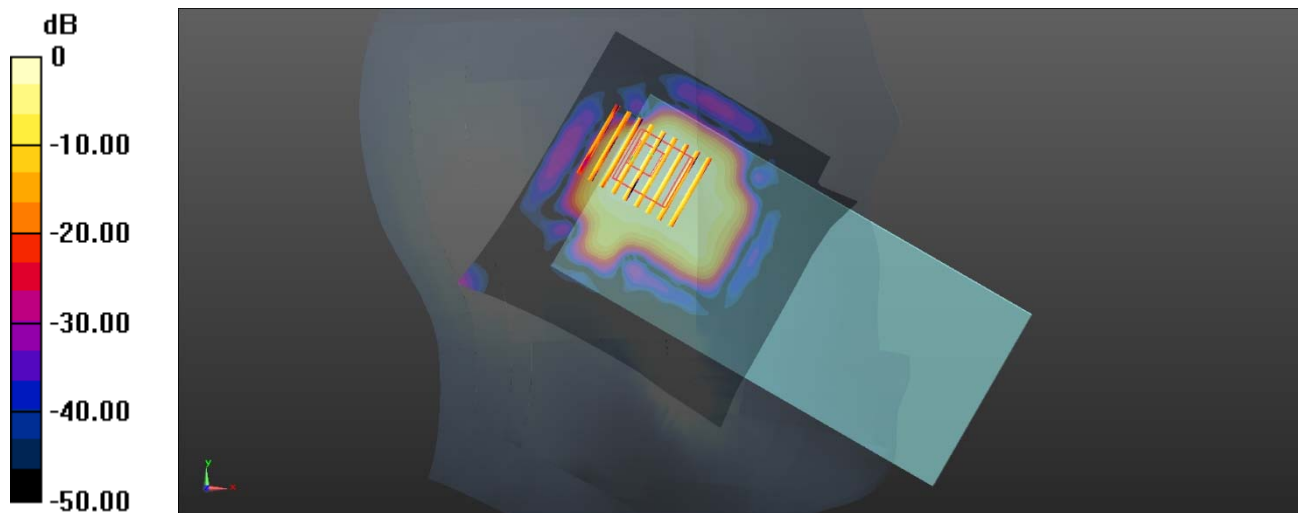
Ch39/Zoom Scan (7x9x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 1.799 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.0670 W/kg

SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.014 W/kg

Maximum value of SAR (measured) = 0.0498 W/kg



0 dB = 0.0498 W/kg = -13.03 dBW/kg

41.Body Plane with Back side 10mm on Mid Channel in Bluetooth

Date: 2021.12.3

Communication System Band: Bluetooth 2.0; Frequency: 2441 MHz; Duty Cycle: 1:1.2

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.801$ S/m; $\epsilon_r = 39.342$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.8 Liquid Temperature: 21.5

DASY5 Configuration:

- Probe: EX3DV4 - SN7663; ConvF(8.19, 8.19, 8.19); Calibrated: 2021.07.23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn878; Calibrated: 2021.07.15
- Phantom: SAM (20deg probe tilt) with CRP v5.0 Right 1857; Type: QD000P40CD; Serial: TP1857
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch39/Area Scan (71x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.0444 W/kg

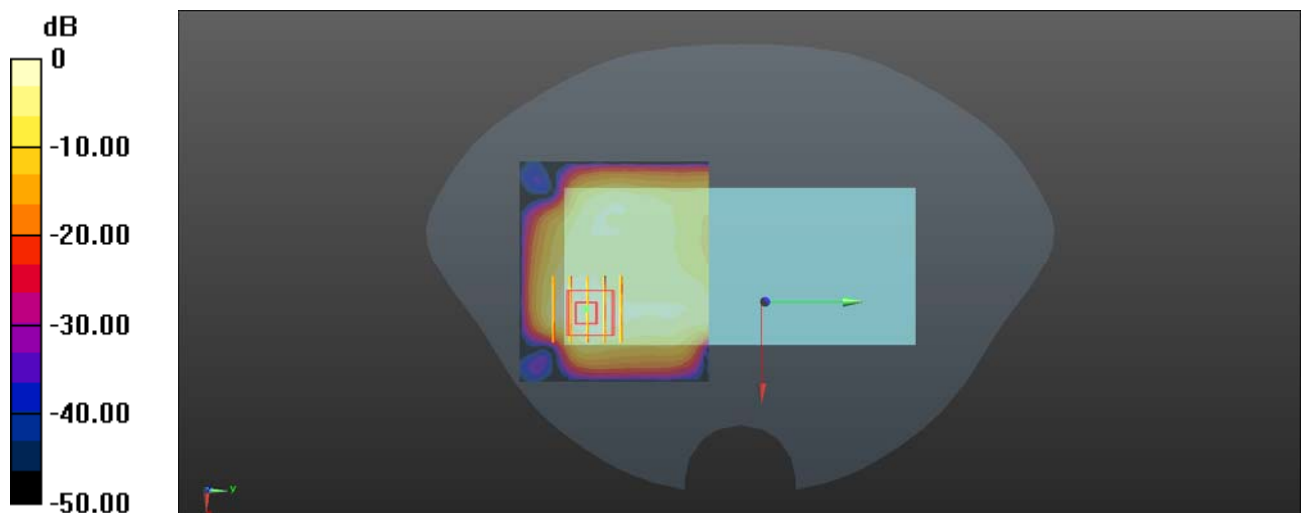
Ch39/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 0.5430 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.0460 W/kg

SAR(1 g) = 0.021 W/kg; SAR(10 g) = 0.010 W/kg

Maximum value of SAR (measured) = 0.0354 W/kg



0 dB = 0.0354 W/kg = -14.51 dBW/kg

ANNEX D SAR TEST SETUP PHOTOS

Please refer the document "BL-EC21B0667-AS.pdf".

ANNEX E CALIBRATION REPORT

Please refer the document "CALIBRATION REPORT.pdf".

--END OF REPORT--