

FCC

SAR

TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Mobile Phone

ISSUED TO
Guangdong OPPO Mobile Telecommunication Corp., Ltd.

NO.18 HaiBin Road, Wusha village, Chang An Town, DongGuan City,
Guangdong, China



Tested by: *Zong Liyao*
Zong Liyao

Date: *Apr 10, 2020*

Approved by: *Wei Yanquan*
Wei Yanquan
(Chief Engineer)

Date: *Apr 10, 2020*

Report No.: BL-SZ2020267-701

EUT Name: Mobile Phone

Model Name: CPH2067

Brand Name: OPPO

FCC ID: R9C-CPH2067

Test Standard: FCC 47 CFR Part 2.1093
ANSI C95.1: 1999, IEEE 1528: 2013

Maximum SAR: Head (1 g): 0.915 W/kg
Body (1 g): 0.918 W/kg
Specific (10 g): 1.765 W/kg

Test Conclusion: Pass

Test Date: Mar. 02, 2020 ~ Mar. 31, 2020

Date of Issue: Apr. 10, 2020

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Apr. 10, 2020</u>	<u>Initial Issue</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

1.2 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	<p>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1.</p> <p>The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.</p> <p>The laboratory is a testing organization accredited by American Association for Laboratory Accreditation (A2LA) according to ISO/IEC 17025. The accreditation certificate is 4344.01.</p> <p>The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.</p>
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

1.3 Test Environment Condition

Ambient Temperature	20°C to 23°C
Ambient Relative Humidity	36% to 49%
Ambient Pressure	100 KPa to 102 KPa

1.4 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.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Guangdong OPPO Mobile Telecommunication Corp., Ltd.
Address	NO.18 HaiBin Road, Wusha village, Chang An Town, DongGuan City, Guangdong, China

2.2 Manufacturer Information

Manufacturer	Guangdong OPPO Mobile Telecommunication Corp., Ltd.
Address	NO.18 HaiBin Road, Wusha village, Chang An Town, DongGuan City, Guangdong, China

2.3 Factory Information

Factory	Guangdong OPPO Mobile Telecommunication Corp., Ltd.
Address	NO.18 HaiBin Road, Wusha village, Chang An Town, DongGuan City, Guangdong, China

2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	CPH2067
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	Color OS 7.1
Dimensions (Approx.)	162.0*75.5*8.9 mm
Weight (Approx.)	192g (with battery)

2.5 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery 1	
	Brand Name	OPPO
	Model No.	BLP781
	Serial No.	N/A
	Capacitance	Rated: 4880mAh/18.88Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	Sunwoda Electronic Co., Ltd.
Ancillary Equipment 2	Li-Polymer Battery (alternative) 2	
	Brand Name	OPPO
	Model No.	BLP781
	Serial No.	N/A
	Capacitance	Rated: 4880mAh/18.88Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	Sunwoda Electronic India Private Limited
Ancillary Equipment 3	Li-Polymer Battery (alternative) 3	
	Brand Name	OPPO
	Model No.	BLP781
	Serial No.	N/A
	Capacitance	Rated: 4880mAh/18.88Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	Sunwoda Electronic Co., Ltd. Branch 3
Ancillary Equipment 4	Li-Polymer Battery (alternative) 4	
	Brand Name	OPPO
	Model No.	BLP781
	Serial No.	N/A
	Capacitance	Rated: 4880mAh/18.88Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	TWS Technology (Guangzhou) Limited.
Ancillary Equipment 5	Li-Polymer Battery (alternative) 5	
	Brand Name	OPPO
	Model No.	BLP781
	Serial No.	N/A
	Rated Voltage	3.87 V

	Limited Voltage	4.45 V
	Manufacturer	Huizhou Desay Battery Co., Ltd
Ancillary Equipment 6	Li-Polymer Battery (alternative) 6	
	Brand Name	OPPO
	Model No.	BLP781
	Serial No.	N/A
	Capacitance	Rated: 4880mAh/18.88Wh Typical: 5000mAh/19.35Wh
	Rated Voltage	3.87 V
	Limited Voltage	4.45 V
	Manufacturer	Dongguan NVT Technology Co., Ltd.
	Ancillary Equipment 7	Headset
Model No.		MH156
Length (Approx.)		1.2 m

Note: The Batteries are same with electrical parameters, but only differ in Manufacturer. By comparing the test data of six Batteries, battery 4 can produce a more conservative SAR values. The battery of the Manufacturer is TWS Technology (Guangzhou) Limited as the main for test in this report.

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/HSPA+ Band 1/2/4/5/6/8/19 4G Network LTE FDD Band 1/2/3/4/5/7/8/12/17/18/19/20/26/28/66 LTE TDD Band 38/39/40/41 LTE CA Uplink (UL): 3C, 7C, 38C, 40C, 41C Bluetooth 5.0 (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20), 802.11ac(VHT20) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) Band 1/2/3/4 SRD, GPS, GLONASS, BDS, Galileo, FM, NFC
Note: The EUT is a mobile phone, which supports dual SIM card under the same transceiver. Each SIM supports GSM, WCDMA and LTE, and both SIM share the same transmitting electro circuit, NV parameters, so only SIM1 was tested in this report.	

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

Operating Mode	GSM, WCDMA, LTE, 2.4G WLAN, 5G 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 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 12	TX: 699 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 26	TX: 814 ~ 849 MHz	RX: 859 ~ 894 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2200 MHz
	LTE Band 38	TX: 2570 ~ 2620 MHz	RX: 2570 ~ 2620 MHz
	LTE Band 41	TX: 2496 ~ 2690 MHz	RX: 2496 ~ 2690 MHz
		802.11b/g/n(HT20)	2400 ~ 2483.5 MHz
	802.11a/n(HT20/HT40)/ac(VHT20/VHT40/VHT80)	5150 ~ 5250 MHz	5250 ~ 5350 MHz
		5470 ~ 5725 MHz	5725 ~ 5850 MHz
	Bluetooth	2400 ~ 2483.5 MHz	
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna		
DTM	Not Support		
Hotspot Function	Support		
Power Reduction	Support		

Exposure Category	General Population/Uncontrolled exposure	
EUT Stage	Portable Device	
Product	Type	
	<input checked="" type="checkbox"/> Production unit	<input type="checkbox"/> Identical prototype
<p>Note:</p> <ol style="list-style-type: none"> 1. This device supports LTE B2, B4, B5, B7, B12, B17, B26, B38, B41 and B66. Since the supported frequency span for LTE B5 falls completely within the support frequency span for LTE B26; LTE B17 fall in Band B12 and LTE B38 fall in Band B41. These LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, LTE SAR was only assessed for B2, B4, B7, B12, B26, B66 and B41. 2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications. 3. 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) 4. This device has two WWAN transmit antennas. WWAN down antenna is located at the bottom edge of the device, and WWAN up antenna is located at the top edge of the device. Up and Down antenna support the same WWAN frequency bands, and they can't transmit simultaneously. 		

2.7 Power Reduction Description

This mobile phone device supports the receiver detection mechanism. This device uses the receiver to indicate whether the user is making a call in head, body or hand.

When there is a voice call (including VOIP) and the audio is actively routed through the earpiece receiver, which indicating the head exposure condition it will trigger the head exposure reduced the power.

When there is a voice call (including VOIP), and the audio is actively routed through the headset or speaker, which indicating the body or extremity exposure conditions and will trigger the body or extremity exposure reduced the power.

When this device used data mode only, and the receiver will not work too, the reduced the power are same as body or extremity exposure.

For WWAN Up Antenna (6 sets of power reduction levels)

Head, Body and Extremity exposure condition conduction different reduction category, the detail as below:

a) Head exposure conditions (3 sets of power reduction levels):

Reduced power level 1-GSM850/1900; WCDMA Band 2/4/5; LTE Band2/4/5/7/12/17/26/66/38/41(WWAN Use Only)

When the device is transmitting at the WWAN Up Antenna, power reduction will be enabled for those bands.

Reduced power level 2 -GSM850/1900; WCDMA Band 2/4/5; LTE Band2/4/5/7/12/17/26/66/38/41(WWAN+WLAN2.4G)

When the device WLAN 2.4GHz is transmitting simultaneously with the WWAN Up Antenna, power reduction will be enabled for those bands.

Reduced power level 3 -GSM850/1900; WCDMA Band 2/4/5; LTE Band2/4/5/7/12/17/26/66/38/41(WWAN+WLAN5G)

When the device WLAN 5GHz is transmitting simultaneously with the WWAN Up Antenna, power reduction will be enabled for those bands.

b) Body (Hotspot) and Product Specific exposure conditions(3 sets of power reduction levels):

Once the device is transmitting at the WWAN Up Antenna, the receiver to indicate user in body or hand. Power reduction will be enabled for those bands.

Reduced power level 4 -GSM900; WCDMA Band 2/4; LTE Band2/4/7/66/38/41(WWAN Use Only)

When the device is transmitting at the WWAN Up Antenna, power reduction will be enabled for those bands.

Reduced power level 5 -GSM900; WCDMA Band 2/4; LTE Band2/4/7/66/38/41(WWAN+WLAN2.4G)

When the device WLAN 2.4GHz is transmitting simultaneously with the WWAN Up Antenna, power reduction will be enabled for those bands.

Reduced power level 6 -GSM900; WCDMA Band 2/4; LTE Band2/4/7/66/38/41(WWAN+WLAN5G)

When the device WLAN 5GHz is transmitting simultaneously with the WWAN Up Antenna, power reduction will be enabled for those bands.

For WWAN Down Antenna (3 sets of power reduction levels)

c) Body (Hotspot) and Product Specific exposure conditions:

Once the device is transmitting at the WWAN Down Antenna, the receiver to indicate user in body or hand. Power reduction will be enabled for those bands.

Reduced power level 7-GSM850/1900; WCDMA Band 2/4/5; LTE Band2/4/5/7/12/17/26/66/38/41(WWAN Use Only)

When the device is transmitting at the WWAN Down Antenna, power reduction will be enabled for those bands.

Reduced power level 8 -GSM850/1900; WCDMA Band 2/4/5; LTE

Band2/4/5/7/12/17/26/66/38/41(WWAN+WLAN2.4G)

When the device WLAN 2.4GHz is transmitting simultaneously with the WWAN Down Antenna, power reduction will be enabled for those bands.

Reduced power level 9 -GSM850/1900; WCDMA Band 2/4/5; LTE

Band2/4/5/7/12/17/26/66/38/41(WWAN+WLAN5G)

When the device WLAN 5GHz is transmitting simultaneously with the WWAN Down Antenna, power reduction will be enabled for those bands.

For WLAN Antenna (4 sets of power reduction levels)

a)Head exposure conditions(2 sets of power reduction levels):

Reduced power level 1-WLAN2.4G, WLAN 5G (WLAN Use Only)

When the device is transmitting at the WLAN Antenna, power reduction will be enabled for those bands.

Reduced power level 2-WLAN2.4G, WLAN 5G(WWAN +WLAN)

When the device WLAN Antenna is transmitting simultaneously with the WWAN Antenna, power reduction will be enabled for those bands.

b)Body (Hotspot) and Product Specific exposure conditions(2 sets of power reduction levels):

Reduced power level 3-WLAN2.4G, WLAN 5G (WLAN Use Only)

When the device is transmitting at the WLAN Antenna, power reduction will be enabled for those bands.

Reduced power level 4-WLAN2.4G, WLAN 5G(WWAN +WLAN)

When the device WLAN Antenna is transmitting simultaneously with the WWAN Antenna, power reduction will be enabled for those bands.

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-1999	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	CC KDB 941225 D05A v01r02	Rel. 10 LTE SAR Test Guidance and KDB Inquiries
9	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
10	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
11	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
12	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.

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 Head and Body SAR (1 g Value)

Band	Maximum Scaled SAR (W/kg)			Maximum Report SAR (W/kg)		
	Head	Body		Head	Body	Product Specific
		Body-worn Accessory & Hotspot (10mm)	Product Specific			
GSM 850	0.261	0.212	/	0.915	0.918	1.765
GSM 1900	0.286	0.402	/			
WCDMA Band 2	0.517	0.284	1.112			
WCDMA Band 4	0.331	0.183	/			
WCDMA Band 5	0.349	0.148	/			
LTE Band 2	0.477	0.372	1.540			
LTE Band 4	0.261	0.336	/			
LTE Band 7	0.746	0.918	1.765			
LTE Band 12	0.113	0.229	/			
LTE Band 26	0.399	0.176	/			
LTE Band 66	0.273	0.364	/			
LTE Band 41	0.915	0.730	1.229			
2.4G WLAN	0.327	0.213	/			
5.2G WLAN	/	0.221	/			
5.3G WLAN	0.907	/	0.539			
5.6G WLAN	0.778	/	0.623			
5.8G WLAN	0.852	0.547	/			
Bluetooth	0.236	0.024	/			
Limit (W/kg)	1.6		4.0	1.6	4.0	
Verdict	Pass					

Note: This device supports both LTE Band 5/17/38 and LTE Band 26/12/41. Since the supported frequency span for LTE Band 5/17/38 falls completely within the supports frequency span for LTE Band 66/12/41, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE Band 26/12/41.

3.3.2 Highest Simultaneous SAR

Position	Simultaneous Configuration	Simultaneous SAR (W/kg)	Limit (W/kg)	Verdict
Head (1g)	WWAN+5G WIFI +Bluetooth	1.335	1.6	Pass
Body-worn Accessory & Hotspot (1g)	WWAN+5G WIFI +Bluetooth	1.250	1.6	Pass
Product Specific (10g)	WWAN+5G WIFI +Bluetooth	1.898	4.0	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 0.918 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 1.765 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:

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

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

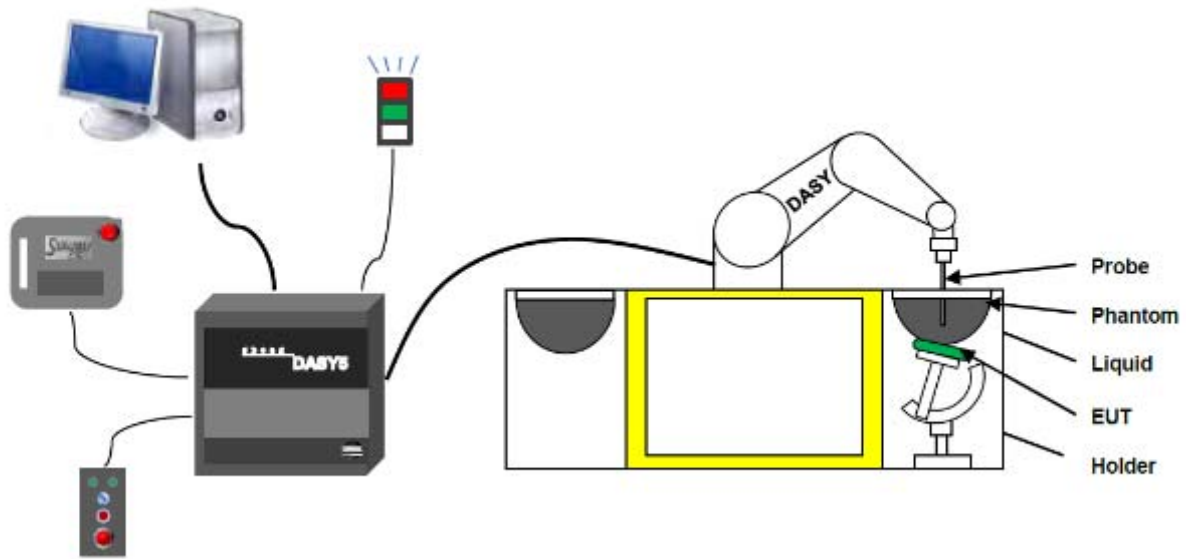
$$\mathbf{SAR} = \frac{\sigma E^2}{\rho}$$

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 DASY5 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 DASY5 measurement server.
6. The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY5 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:



- 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 fields shielded via the closed metallic construction 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-SN:7510 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., glycoether)
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)

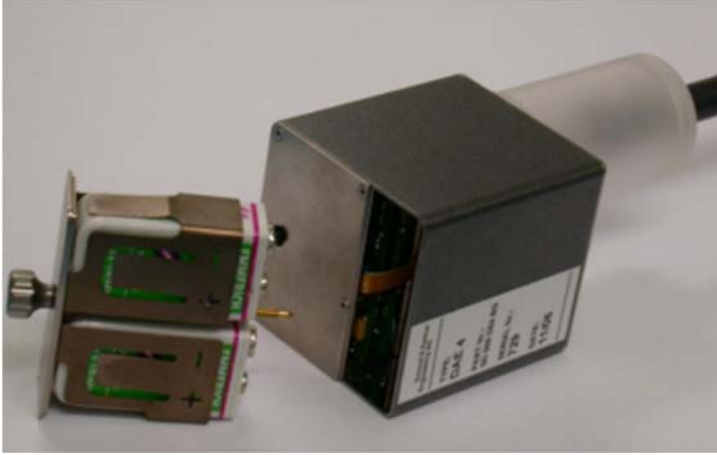


E-Field Probe Calibration Process

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

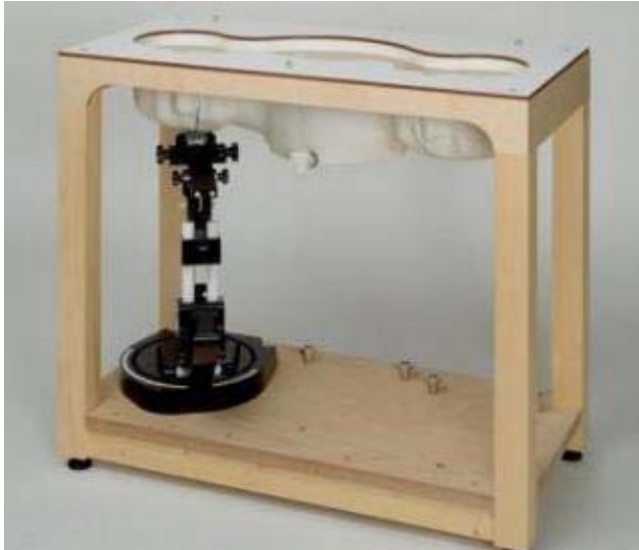
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an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



- Input Impedance: 200M Ω
- The Inputs: Symmetrical and Floating
- Common 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 SN1857



Photo of Phantom SN1859



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

4.2.6 Device Holder

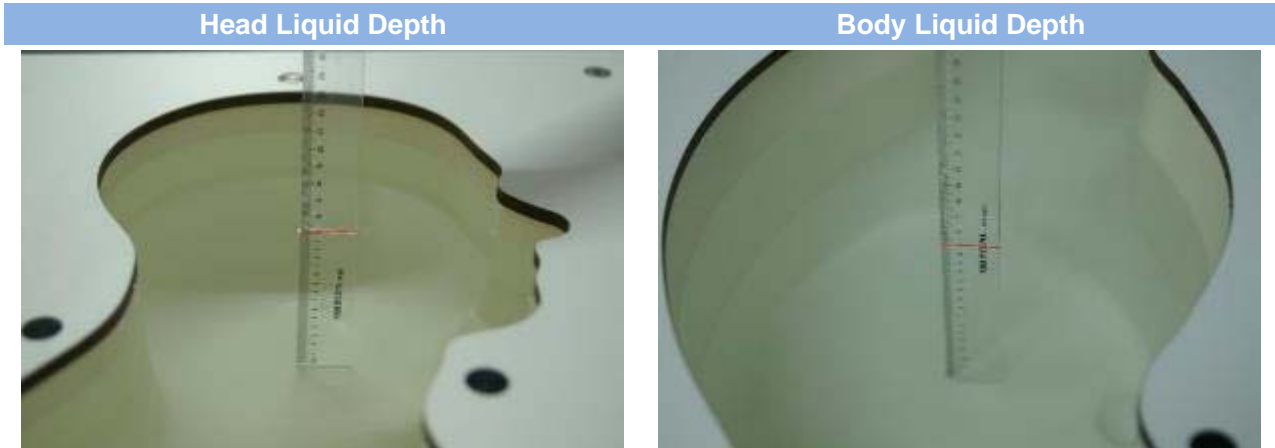
The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65° . The bottom plate contains three pair of bolts for 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. In compliance 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
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
5800	78.50	21.40			0.1		6.0	48.20

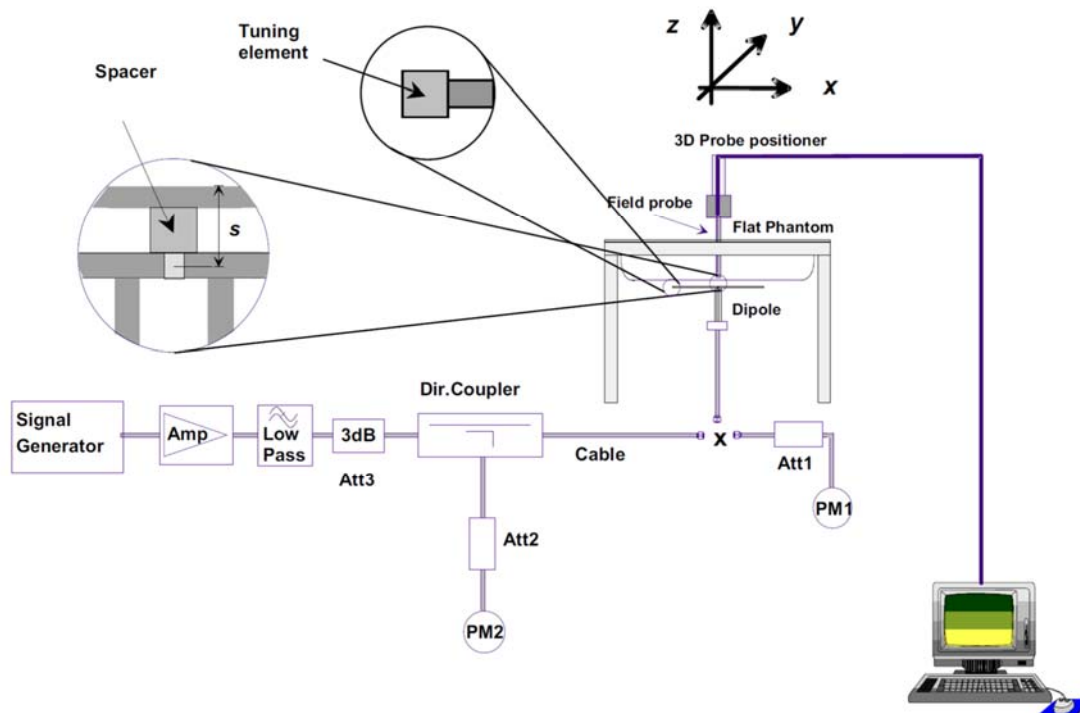
5 SYSTEM VERIFICATION

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

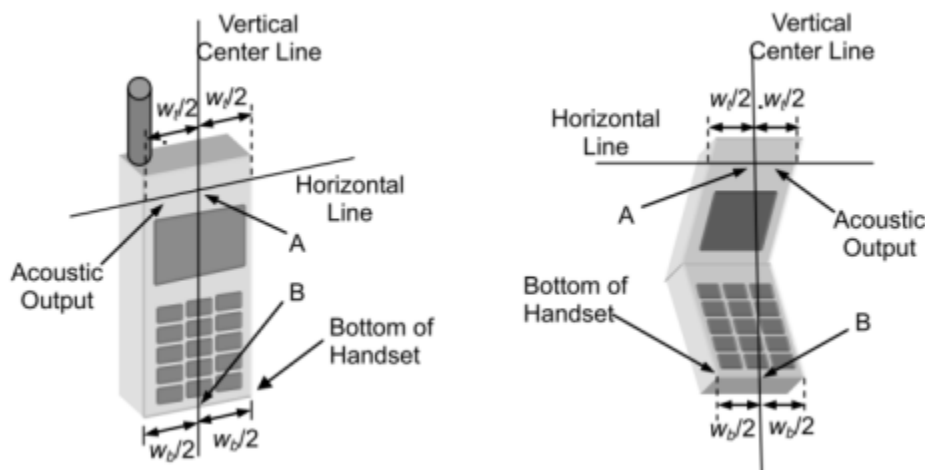
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

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.

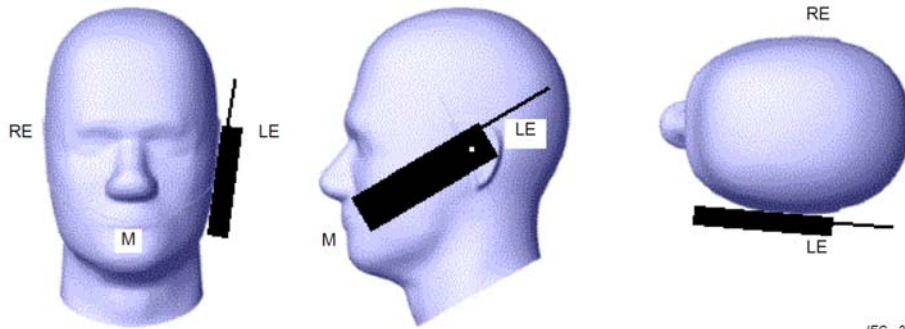
6.1.1 Two Imaginary Lines on the Handset

- 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.



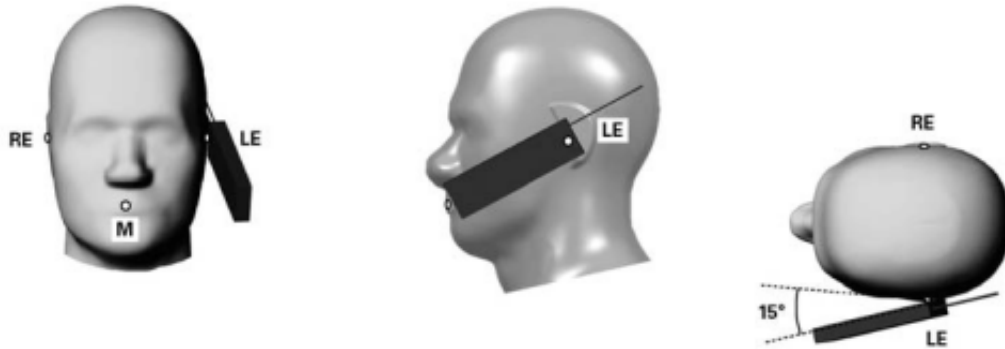
6.1.2 Cheek Position

- 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

- (a) To position the device in the “cheek” position described above.
- (b) 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.

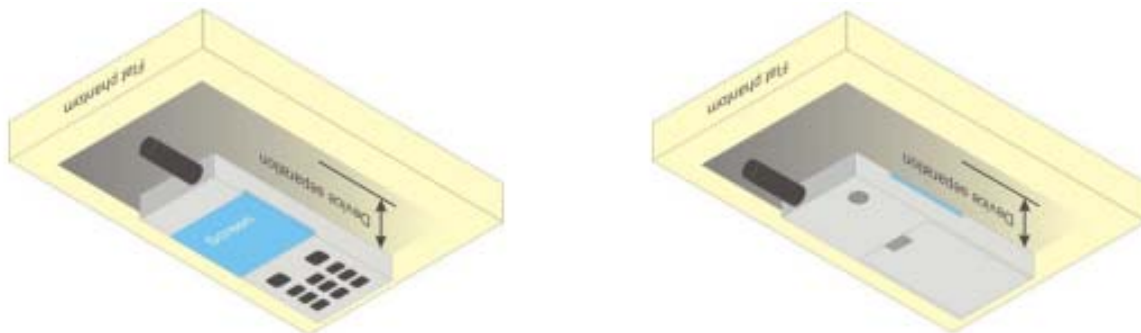


6.2 Body-worn Position Conditions

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.

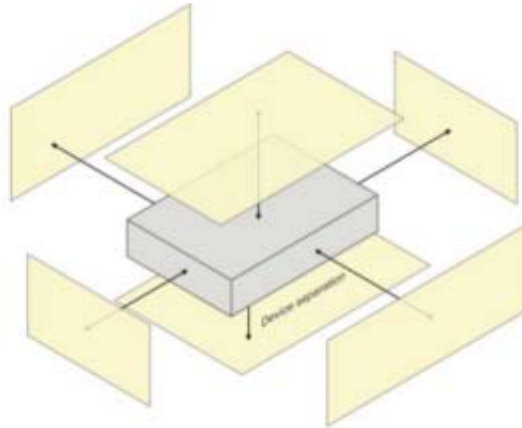
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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



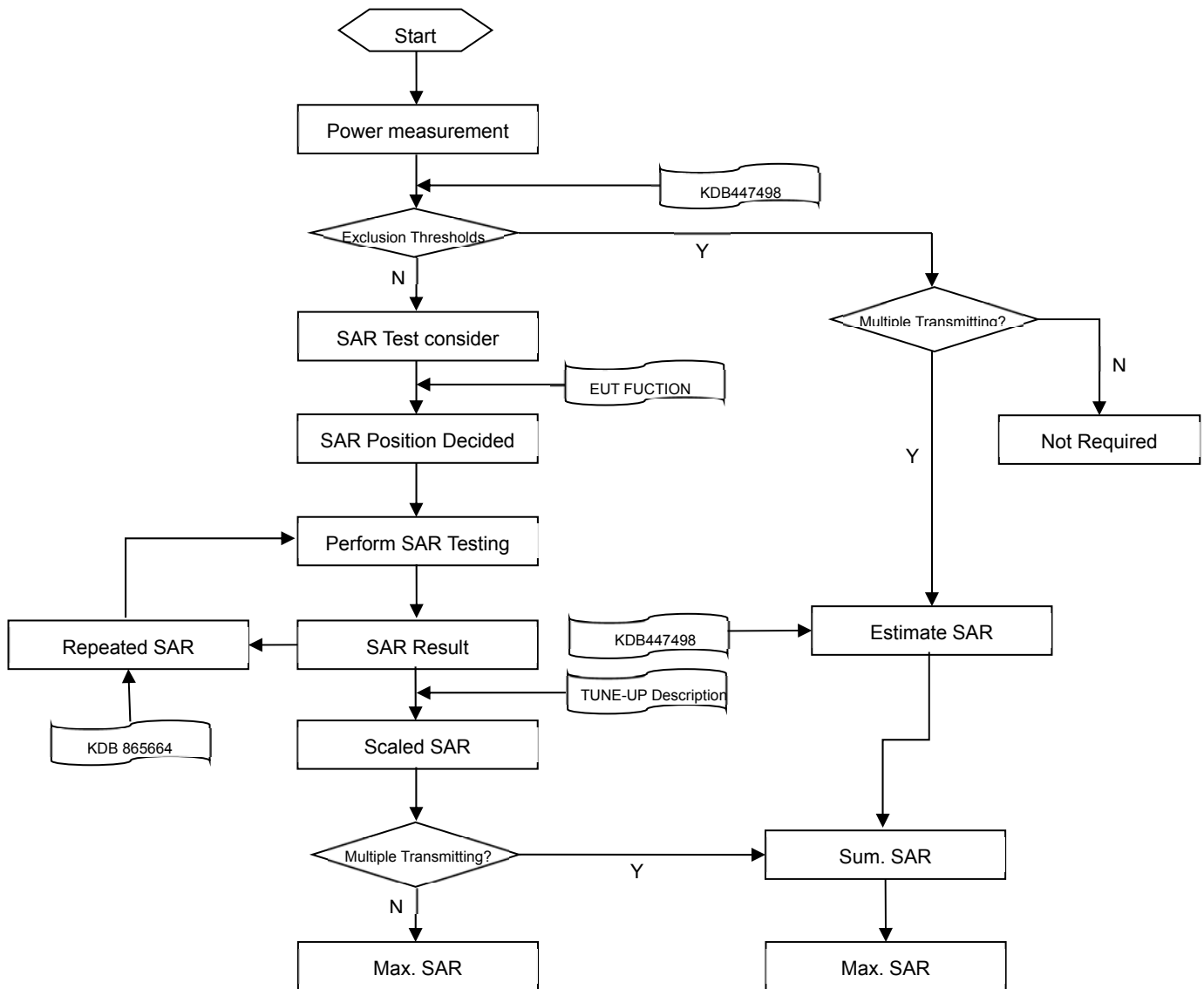
6.4 Product Specific 10g Exposure Consideration

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 ≤ 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 1st two points closest to phantom surface	≤ 4 mm
Δz Zoom (n>1): between subsequent points		≤ 1.5· Δz Zoom (n-1)	
Minimum zoom scan volume	x, y, z	≥30 mm	3–4 GHz: ≥ 28 mm
			4–5 GHz: ≥ 25 mm
			5–6 GHz: ≥ 22 mm
Note: <ol style="list-style-type: none"> 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 OUTPUT POWER

8.1 GSM

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)	32.51	32.78	32.86	34.00	23.32	23.59	23.67	24.81
GPRS (GMSK, 1-Slot)	32.46	32.71	32.79	34.00	23.27	23.52	23.60	24.81
GPRS (GMSK, 2-Slots)	29.78	29.89	29.96	30.50	23.65	23.76	23.83	24.37
GPRS (GMSK, 3-Slots)	27.95	28.08	28.32	29.00	23.53	23.66	23.90	24.58
GPRS (GMSK, 4-Slots)	26.59	26.92	27.19	28.00	23.41	23.74	24.01	24.82
EGPRS (8PSK, 1-Slot)	26.72	26.55	26.62	28.00	17.53	17.36	17.43	18.81
EGPRS (8PSK, 2-Slots)	24.31	24.49	24.49	26.00	18.18	18.36	18.36	19.87
EGPRS (8PSK, 3-Slots)	23.03	23.05	23.19	25.00	18.61	18.63	18.77	20.58
EGPRS (8PSK, 4-Slots)	22.66	22.67	22.68	24.00	19.48	19.49	19.50	20.82
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)	29.99	29.91	30.07	31.00	20.80	20.72	20.88	21.81
GPRS (GMSK, 1-Slot)	30.00	29.89	29.84	31.00	20.81	20.70	20.65	21.81
GPRS (GMSK, 2-Slots)	27.29	27.23	27.38	28.00	21.16	21.10	21.25	21.87
GPRS (GMSK, 3-Slots)	26.13	25.94	26.15	27.00	21.71	21.52	21.73	22.58
GPRS (GMSK, 4-Slots)	24.39	24.60	24.57	25.00	21.21	21.42	21.39	21.82
EGPRS (8PSK, 1-Slot)	25.82	25.66	25.45	27.00	16.63	16.47	16.26	17.81
EGPRS (8PSK, 2-Slots)	23.52	23.58	23.50	25.00	17.39	17.45	17.37	18.87
EGPRS (8PSK, 3-Slots)	22.11	22.05	22.16	24.00	17.69	17.63	17.74	19.58
EGPRS (8PSK, 4-Slots)	20.74	20.91	21.00	22.00	17.56	17.73	17.82	18.82

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

WCDMA	Band 2				Band 4			
Channel	9262	9400	9538	Tune-up Limit (dBm)	1312	1412	1513	Tune-up Limit (dBm)
AMR 12.2Kbps	24.21	24.36	24.38	25.00	24.15	24.20	24.39	25.00
RMC 12.2Kbps	24.27	24.54	24.54	25.00	24.24	24.15	24.41	25.00
HSDPA Subtest-1	23.40	23.53	23.50	24.00	23.44	23.23	23.58	24.00
HSDPA Subtest-2	23.29	23.41	23.44	24.00	23.43	23.47	23.45	24.00
HSDPA Subtest-3	23.04	23.03	22.81	23.50	22.86	22.83	22.99	23.50
HSDPA Subtest-4	22.91	23.08	22.92	23.50	22.87	22.96	22.75	23.50
DC-HSDPA Subtest-1	23.55	23.59	23.49	24.00	23.44	23.44	23.22	24.00
DC-HSDPA Subtest-2	23.17	23.43	23.37	24.00	23.22	23.42	23.14	24.00
DC-HSDPA Subtest-3	22.84	23.04	22.79	23.50	22.94	22.94	23.01	23.50
DC-HSDPA Subtest-4	23.07	23.05	22.76	23.50	23.10	22.76	22.91	23.50
HSUPA Subtest-1	23.46	23.55	23.42	24.00	22.92	23.00	23.25	24.00
HSUPA Subtest-2	21.55	21.57	21.40	22.00	21.50	21.28	21.35	22.00
HSUPA Subtest-3	22.35	22.49	22.40	23.00	22.44	22.27	22.47	23.00
HSUPA Subtest-4	21.33	21.66	21.18	22.00	21.48	21.42	21.45	22.00
HSUPA Subtest-5	23.43	23.64	23.28	24.00	23.56	23.22	23.38	24.00
WCDMA	Band 5				-			
Channel	4132	4182	4233	Tune-up Limit (dBm)	-	-	-	-
AMR 12.2Kbps	23.81	23.80	23.98	25.00	-	-	-	-
RMC 12.2Kbps	23.87	23.84	24.14	25.00	-	-	-	-
HSDPA Subtest-1	22.94	22.87	22.95	24.00	-	-	-	-
HSDPA Subtest-2	22.92	22.72	22.90	24.00	-	-	-	-
HSDPA Subtest-3	22.39	22.24	22.48	23.50	-	-	-	-
HSDPA Subtest-4	22.33	22.28	22.41	23.50	-	-	-	-
DC-HSDPA Subtest-1	22.98	22.66	22.71	24.00	-	-	-	-
DC-HSDPA Subtest-2	22.60	22.87	22.91	24.00	-	-	-	-
DC-HSDPA Subtest-3	22.58	22.63	22.52	23.50	-	-	-	-
DC-HSDPA Subtest-4	22.52	22.30	22.30	23.50	-	-	-	-
HSUPA Subtest-1	22.53	22.58	22.80	24.00	-	-	-	-
HSUPA Subtest-2	20.80	20.90	20.94	22.00	-	-	-	-
HSUPA Subtest-3	21.98	21.97	21.87	23.00	-	-	-	-
HSUPA Subtest-4	20.91	20.89	21.03	22.00	-	-	-	-
HSUPA Subtest-5	22.93	22.82	22.89	24.00	-	-	-	-

8.3 LTE

FDD LTE Band 2									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18700	18900	19100		18700	18900	19100	
20 MHz	1 (RB_Pos:0)	23.95	24.18	24.18	25.00	23.85	23.89	23.73	24.00
	1 (RB_Pos:50)	23.93	24.10	23.97	25.00	23.66	23.91	23.80	24.00
	1 (RB_Pos:99)	24.00	24.23	24.10	25.00	23.82	23.68	23.87	24.00
	50 (RB_Pos:0)	23.31	23.37	23.21	24.00	22.24	22.46	22.44	23.00
	50 (RB_Pos:25)	23.22	23.33	23.24	24.00	22.31	22.54	22.34	23.00
	50 (RB_Pos:50)	23.26	23.33	23.22	24.00	22.37	22.41	22.42	23.00
	100 (RB_Pos:0)	23.24	23.44	23.49	24.00	22.53	22.43	22.53	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18675	18900	19125		18675	18900	19125	
15 MHz	1 (RB_Pos:0)	23.99	24.21	24.10	25.00	23.27	23.86	23.89	24.00
	1 (RB_Pos:38)	23.86	24.19	24.18	25.00	23.14	23.81	23.84	24.00
	1 (RB_Pos:74)	24.07	24.11	24.16	25.00	23.39	23.66	23.77	24.00
	36 (RB_Pos:0)	23.18	23.44	23.36	24.00	22.33	22.59	22.25	23.00
	36 (RB_Pos:20)	23.40	23.25	23.38	24.00	22.51	22.48	22.30	23.00
	36 (RB_Pos:39)	23.29	23.32	23.48	24.00	22.27	22.56	22.58	23.00
	75 (RB_Pos:0)	23.31	23.43	23.40	24.00	22.49	22.53	22.53	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18650	18900	19150		18650	18900	19150	
10 MHz	1 (RB_Pos:0)	24.06	24.07	24.22	25.00	23.38	23.87	23.53	24.00
	1 (RB_Pos:25)	24.01	24.17	24.21	25.00	23.10	23.68	23.54	24.00
	1 (RB_Pos:49)	23.79	24.06	24.09	25.00	23.08	23.57	23.44	24.00
	25 (RB_Pos:0)	23.20	23.41	23.48	24.00	22.17	22.43	22.54	23.00
	25 (RB_Pos:12)	23.14	23.37	23.48	24.00	22.39	22.32	22.48	23.00
	25 (RB_Pos:25)	23.10	23.27	23.48	24.00	22.39	22.40	22.50	23.00
	50 (RB_Pos:0)	23.31	23.19	23.37	24.00	22.39	22.54	22.47	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18625	18900	19175		18625	18900	19175	
5 MHz	1 (RB_Pos:0)	24.01	24.05	24.20	25.00	23.33	23.93	23.58	24.00
	1 (RB_Pos:13)	23.97	24.22	24.19	25.00	23.48	23.92	23.55	24.00
	1 (RB_Pos:24)	23.82	24.08	24.14	25.00	23.42	23.87	23.60	24.00
	12 (RB_Pos:0)	23.28	23.18	23.41	24.00	22.41	22.53	22.52	23.00
	12 (RB_Pos:6)	23.11	23.43	23.49	24.00	22.30	22.45	22.50	23.00
	12 (RB_Pos:13)	23.26	23.36	23.28	24.00	22.40	22.40	22.40	23.00

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	18615	18900		19185	18615	18900	
25 (RB_Pos:0)		23.06	23.31	23.28	24.00	22.37	22.33	22.32	23.00
3.0 MHz	1 (RB_Pos:0)	23.88	24.03	24.22	25.00	23.08	23.84	23.42	24.00
	1 (RB_Pos:8)	23.94	24.12	24.05	25.00	23.26	23.71	23.30	24.00
	1 (RB_Pos:14)	23.98	23.96	24.13	25.00	22.99	23.75	23.28	24.00
	8 (RB_Pos:0)	23.19	23.32	23.30	24.00	22.26	22.47	22.48	23.00
	8 (RB_Pos:3)	23.22	23.29	23.39	24.00	22.27	22.34	22.43	23.00
	8 (RB_Pos:7)	23.19	23.24	23.41	24.00	22.33	22.46	22.59	23.00
	15 (RB_Pos:0)	23.11	23.29	23.35	24.00	22.33	22.35	22.28	23.00
1.4 MHz	1 (RB_Pos:0)	23.76	24.17	24.04	25.00	23.18	23.56	23.28	24.00
	1 (RB_Pos:3)	23.96	24.06	24.09	25.00	23.33	23.67	23.26	24.00
	1 (RB_Pos:5)	23.86	23.97	24.20	25.00	23.13	23.63	23.32	24.00
	3 (RB_Pos:0)	23.81	23.99	24.17	25.00	23.15	23.34	23.43	24.00
	3 (RB_Pos:1)	23.82	24.13	24.18	25.00	23.19	23.44	23.44	24.00
	3 (RB_Pos:3)	23.93	24.02	24.11	25.00	23.16	23.34	23.48	24.00
	6 (RB_Pos:0)	23.07	23.12	23.31	24.00	22.38	22.21	22.65	23.00

FDD LTE Band 4									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	20050	20175		20300	20050	20175	
20 MHz	1 (RB_Pos:0)	23.86	24.14	24.08	25.00	23.69	23.74	23.77	24.00
	1 (RB_Pos:50)	23.85	24.09	23.95	25.00	23.71	23.57	23.56	24.00
	1 (RB_Pos:99)	23.96	24.11	23.92	25.00	23.74	23.93	23.59	24.00
	50 (RB_Pos:0)	23.13	23.29	23.26	24.00	22.19	22.53	22.34	23.00
	50 (RB_Pos:25)	23.32	23.38	23.25	24.00	22.45	22.42	22.18	23.00
	50 (RB_Pos:50)	23.12	23.18	23.08	24.00	22.30	22.36	22.11	23.00
	100 (RB_Pos:0)	23.20	23.28	23.33	24.00	22.33	22.37	22.25	23.00
15 MHz	1 (RB_Pos:0)	23.87	24.13	24.10	25.00	23.13	23.87	23.90	24.00
	1 (RB_Pos:38)	23.92	23.96	24.03	25.00	23.01	23.69	23.69	24.00
	1 (RB_Pos:74)	23.92	24.11	23.98	25.00	23.22	23.69	23.64	24.00
	36 (RB_Pos:0)	23.12	23.24	23.27	24.00	22.36	22.51	22.31	23.00

	36 (RB_Pos:20)	23.08	23.42	23.14	24.00	22.29	22.37	22.18	23.00
	36 (RB_Pos:39)	23.15	23.23	23.10	24.00	22.23	22.51	22.12	23.00
	75 (RB_Pos:0)	23.28	23.37	23.08	24.00	22.22	22.41	22.15	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20000	20175	20350		20000	20175	20350	
10 MHz	1 (RB_Pos:0)	23.94	24.11	23.93	25.00	23.22	23.63	23.24	24.00
	1 (RB_Pos:25)	23.98	24.13	23.94	25.00	22.97	23.77	23.19	24.00
	1 (RB_Pos:49)	24.06	23.99	23.92	25.00	23.05	23.58	23.14	24.00
	25 (RB_Pos:0)	23.27	23.49	23.17	24.00	22.30	22.53	22.31	23.00
	25 (RB_Pos:12)	23.10	23.41	23.30	24.00	22.17	22.36	22.24	23.00
	25 (RB_Pos:25)	23.05	23.44	23.23	24.00	22.25	22.51	22.30	23.00
	50 (RB_Pos:0)	23.27	23.42	23.24	24.00	22.14	22.43	22.31	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19975	20175	20375		19975	20175	20375	
5 MHz	1 (RB_Pos:0)	23.77	24.09	23.98	25.00	23.22	24.03	23.39	24.00
	1 (RB_Pos:13)	23.90	24.08	23.92	25.00	23.38	23.96	23.34	24.00
	1 (RB_Pos:24)	24.00	24.14	23.93	25.00	23.44	23.90	23.34	24.00
	12 (RB_Pos:0)	23.01	23.34	23.21	24.00	22.28	22.64	22.34	23.00
	12 (RB_Pos:6)	23.06	23.17	23.14	24.00	22.28	22.55	22.35	23.00
	12 (RB_Pos:13)	23.19	23.20	23.20	24.00	22.16	22.51	22.36	23.00
	25 (RB_Pos:0)	23.20	23.25	23.27	24.00	22.17	22.50	22.10	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19965	20175	20385		19965	20175	20385	
3.0 MHz	1 (RB_Pos:0)	23.67	23.98	23.89	25.00	23.09	23.73	23.08	24.00
	1 (RB_Pos:8)	23.69	23.98	23.95	25.00	22.99	23.72	23.30	24.00
	1 (RB_Pos:14)	23.95	24.11	23.89	25.00	23.00	23.62	23.26	24.00
	8 (RB_Pos:0)	23.13	23.30	23.02	24.00	22.23	22.49	22.13	23.00
	8 (RB_Pos:3)	23.09	23.30	23.14	24.00	22.41	22.35	22.37	23.00
	8 (RB_Pos:7)	23.12	23.22	23.21	24.00	22.33	22.37	22.12	23.00
	15 (RB_Pos:0)	23.06	23.36	23.09	24.00	22.12	22.32	22.18	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19957	20175	20393		19957	20175	20393	
1.4 MHz	1 (RB_Pos:0)	23.66	24.04	23.83	25.00	23.22	23.65	23.13	24.00
	1 (RB_Pos:3)	23.86	23.97	23.83	25.00	23.30	23.68	23.21	24.00
	1 (RB_Pos:5)	23.69	23.98	23.93	25.00	23.19	23.57	23.26	24.00
	3 (RB_Pos:0)	23.80	23.91	23.79	25.00	23.09	23.37	23.14	24.00
	3 (RB_Pos:1)	23.74	23.94	23.94	25.00	23.23	23.41	23.18	24.00

	3 (RB_Pos:3)	23.72	23.93	23.83	25.00	23.11	23.44	23.35	24.00
	6 (RB_Pos:0)	22.83	23.27	23.10	24.00	22.21	22.17	22.13	23.00

FDD LTE Band 5									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20450	20525	20600		20450	20525	20600	
10 MHz	1 (RB_Pos:0)	23.98	23.91	23.96	25.00	23.01	23.51	23.12	24.00
	1 (RB_Pos:25)	23.94	23.92	24.02	25.00	23.11	23.50	23.20	24.00
	1 (RB_Pos:49)	24.07	23.72	24.01	25.00	23.04	23.36	23.04	24.00
	25 (RB_Pos:0)	23.12	23.03	23.10	24.00	22.23	22.25	22.17	23.00
	25 (RB_Pos:12)	23.25	23.21	23.20	24.00	22.29	22.20	22.18	23.00
	25 (RB_Pos:25)	23.29	23.07	23.05	24.00	22.32	22.19	22.16	23.00
	50 (RB_Pos:0)	23.25	23.14	23.13	24.00	22.38	22.24	22.27	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20425	20525	20625		20425	20525	20625	
5MHz	1 (RB_Pos:0)	23.79	23.89	24.10	25.00	23.27	23.73	23.25	24.00
	1 (RB_Pos:13)	23.83	23.88	23.94	25.00	23.40	23.69	23.37	24.00
	1 (RB_Pos:24)	23.94	23.96	23.99	25.00	23.36	23.61	23.31	24.00
	12 (RB_Pos:0)	23.08	23.16	23.19	24.00	22.22	22.33	22.32	23.00
	12 (RB_Pos:6)	23.23	23.08	23.08	24.00	22.38	22.20	22.19	23.00
	12 (RB_Pos:13)	23.00	23.13	23.12	24.00	22.18	22.33	22.25	23.00
	25 (RB_Pos:0)	23.11	23.03	23.03	24.00	22.34	22.30	22.24	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20415	20525	20635		20415	20525	20635	
3.0 MHz	1 (RB_Pos:0)	23.69	23.81	23.77	25.00	22.85	23.41	23.13	24.00
	1 (RB_Pos:8)	23.72	23.81	23.96	25.00	23.06	23.50	23.22	24.00
	1 (RB_Pos:14)	23.75	23.74	23.77	25.00	22.97	23.41	23.19	24.00
	8 (RB_Pos:0)	23.18	23.16	23.15	24.00	22.12	22.19	22.18	23.00
	8 (RB_Pos:3)	23.07	23.14	23.18	24.00	22.32	22.32	22.29	23.00
	8 (RB_Pos:7)	23.01	23.07	22.99	24.00	22.26	22.12	22.23	23.00
	15 (RB_Pos:0)	23.00	22.94	22.96	24.00	22.18	22.16	22.02	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20407	20525	20643		20407	20525	20643	
1.4MHz	1 (RB_Pos:0)	23.63	23.76	23.93	25.00	23.13	23.37	23.00	24.00
	1 (RB_Pos:3)	23.78	23.95	23.78	25.00	23.02	23.29	23.06	24.00
	1 (RB_Pos:5)	23.57	23.77	23.70	25.00	23.16	23.36	23.04	24.00

	3 (RB_Pos:0)	23.70	23.83	23.93	25.00	22.99	23.18	23.22	24.00
	3 (RB_Pos:1)	23.88	23.79	23.96	25.00	23.02	23.16	23.31	24.00
	3 (RB_Pos:3)	23.60	23.85	23.78	25.00	23.03	23.25	23.24	24.00
	6 (RB_Pos:0)	22.99	22.95	23.13	24.00	22.28	22.02	22.35	23.00

FDD LTE Band 7									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20850	21100	21350		20850	21100	21350	
20MHz	1 (RB_Pos:0)	24.23	24.25	24.11	25.00	23.85	23.98	23.78	24.00
	1 (RB_Pos:50)	24.20	24.38	24.06	25.00	23.96	23.82	23.86	24.00
	1 (RB_Pos:99)	24.17	24.23	24.01	25.00	23.91	23.93	23.82	24.00
	50 (RB_Pos:0)	23.42	23.56	23.53	24.00	22.68	22.65	22.44	23.00
	50 (RB_Pos:25)	23.54	23.45	23.45	24.00	22.61	22.46	22.46	23.00
	50 (RB_Pos:50)	23.40	23.43	23.45	24.00	22.54	22.45	22.34	23.00
	100 (RB_Pos:0)	23.42	23.55	23.44	24.00	22.59	22.56	22.48	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20825	21100	21375		20825	21100	21375	
15MHz	1 (RB_Pos:0)	24.32	24.35	24.34	25.00	23.41	23.93	23.85	24.00
	1 (RB_Pos:38)	24.06	24.08	24.14	25.00	23.39	23.86	23.89	24.00
	1 (RB_Pos:74)	24.13	24.06	24.06	25.00	23.34	23.78	23.73	24.00
	36 (RB_Pos:0)	23.34	23.33	23.40	24.00	22.41	22.71	22.41	23.00
	36 (RB_Pos:20)	23.44	23.43	23.37	24.00	22.55	22.56	22.50	23.00
	36 (RB_Pos:39)	23.34	23.29	23.43	24.00	22.58	22.49	22.29	23.00
	75 (RB_Pos:0)	23.41	23.38	23.53	24.00	22.56	22.48	22.59	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20800	21100	21400		20800	21100	21400	
10MHz	1 (RB_Pos:0)	24.18	24.22	24.09	25.00	23.39	23.81	23.57	24.00
	1 (RB_Pos:25)	24.22	24.28	24.11	25.00	23.41	23.82	23.53	24.00
	1 (RB_Pos:49)	24.23	24.26	24.13	25.00	23.38	23.86	23.32	24.00
	25 (RB_Pos:0)	23.38	23.38	23.52	24.00	22.60	22.55	22.46	23.00
	25 (RB_Pos:12)	23.48	23.54	23.46	24.00	22.61	22.60	22.45	23.00
	25 (RB_Pos:25)	23.42	23.29	23.32	24.00	22.56	22.47	22.59	23.00
	50 (RB_Pos:0)	23.35	23.49	23.45	24.00	22.39	22.58	22.53	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20775	21100	21425		20775	21100	21425	
5MHz	1 (RB_Pos:0)	24.19	24.08	24.21	25.00	23.80	23.72	23.60	24.00

	1 (RB_Pos:13)	24.19	24.24	24.21	25.00	23.85	23.64	23.76	24.00
	1 (RB_Pos:24)	24.21	24.15	24.10	25.00	23.84	23.62	23.37	24.00
	12 (RB_Pos:0)	23.41	23.46	23.39	24.00	22.79	22.59	22.57	23.00
	12 (RB_Pos:6)	23.39	23.50	23.41	24.00	22.72	22.56	22.61	23.00
	12 (RB_Pos:13)	23.42	23.47	23.47	24.00	22.79	22.57	22.59	23.00
	25 (RB_Pos:0)	23.53	23.44	23.25	24.00	22.57	22.40	22.49	23.00

FDD LTE Band 12									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23060	23095	23130		23060	23095	23130	
10MHz	1 (RB_Pos:0)	24.03	23.77	24.04	25.00	22.60	23.21	22.85	24.00
	1 (RB_Pos:50)	23.82	23.87	23.85	25.00	22.72	23.10	22.75	24.00
	1 (RB_Pos:99)	24.05	23.94	23.80	25.00	22.80	23.26	22.87	24.00
	50 (RB_Pos:0)	23.08	23.22	23.20	24.00	21.83	22.11	21.82	23.00
	50 (RB_Pos:25)	23.25	23.29	23.30	24.00	21.97	21.91	22.07	23.00
	50 (RB_Pos:50)	23.31	23.17	23.04	24.00	21.96	21.91	22.08	23.00
	100 (RB_Pos:0)	23.31	23.15	23.30	24.00	22.10	21.86	22.06	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23035	23095	23155		23035	23095	23155	
5MHz	1 (RB_Pos:0)	23.93	23.98	23.84	25.00	23.11	23.35	23.03	24.00
	1 (RB_Pos:38)	23.91	24.01	23.71	25.00	23.04	23.33	22.85	24.00
	1 (RB_Pos:74)	23.89	24.01	23.73	25.00	23.06	23.31	23.04	24.00
	36 (RB_Pos:0)	23.02	23.14	23.17	24.00	21.77	22.17	21.82	23.00
	36 (RB_Pos:20)	23.18	23.20	22.96	24.00	21.94	22.17	21.91	23.00
	36 (RB_Pos:39)	23.32	23.31	23.10	24.00	21.97	22.04	21.99	23.00
	75 (RB_Pos:0)	23.14	23.12	23.03	24.00	22.04	22.05	21.76	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23025	23095	23165		23025	23095	23165	
3MHz	1 (RB_Pos:0)	23.76	23.84	23.66	25.00	22.66	23.14	22.83	24.00
	1 (RB_Pos:25)	23.72	23.84	23.81	25.00	22.61	23.19	22.67	24.00
	1 (RB_Pos:49)	23.77	23.93	23.70	25.00	22.70	23.20	22.56	24.00
	25 (RB_Pos:0)	23.14	23.16	23.09	24.00	21.81	21.94	21.72	23.00
	25 (RB_Pos:12)	23.05	23.13	22.93	24.00	21.92	22.00	21.84	23.00
	25 (RB_Pos:25)	23.02	23.25	22.89	24.00	22.01	21.91	21.91	23.00
	50 (RB_Pos:0)	23.14	23.13	23.09	24.00	21.97	21.92	21.82	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23017	23095	23173		23017	23095	23173	

					(dBm)				(dBm)
1.4MHz	1 (RB_Pos:0)	23.83	23.74	23.80	25.00	23.03	22.97	22.53	24.00
	1 (RB_Pos:13)	23.91	23.83	23.67	25.00	22.77	23.27	22.70	24.00
	1 (RB_Pos:24)	23.75	23.95	23.60	25.00	22.71	22.97	22.55	24.00
	12 (RB_Pos:0)	23.85	23.94	23.81	25.00	22.86	22.94	22.92	24.00
	12 (RB_Pos:6)	23.74	23.81	23.79	25.00	22.88	23.16	22.94	24.00
	12 (RB_Pos:13)	23.81	23.93	23.66	25.00	22.91	23.00	22.80	24.00
	25 (RB_Pos:0)	22.93	23.24	22.98	24.00	22.01	21.62	21.88	23.00

FDD LTE Band 17									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23780	23790	23800		23780	23790	23800	
10MHz	1 (RB_Pos:0)	23.68	23.80	23.82	25.00	22.52	23.02	22.76	24.00
	1 (RB_Pos:50)	23.64	23.87	23.84	25.00	22.43	22.93	22.70	24.00
	1 (RB_Pos:99)	23.77	23.69	23.76	25.00	22.45	23.13	22.90	24.00
	50 (RB_Pos:0)	23.03	23.07	22.93	24.00	21.89	21.90	21.92	23.00
	50 (RB_Pos:25)	23.08	23.15	22.94	24.00	21.84	21.69	21.79	23.00
	50 (RB_Pos:50)	23.13	23.07	22.97	24.00	21.80	21.72	21.93	23.00
	100 (RB_Pos:0)	22.91	22.89	23.10	24.00	21.72	21.91	21.72	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23755	23790	23825		23755	23790	23825	
5MHz	1 (RB_Pos:0)	23.70	23.71	23.64	25.00	23.04	23.24	22.82	24.00
	1 (RB_Pos:38)	23.68	23.88	23.80	25.00	23.04	23.36	22.81	24.00
	1 (RB_Pos:74)	23.82	23.62	23.73	25.00	22.76	23.24	22.97	24.00
	36 (RB_Pos:0)	22.83	22.98	22.93	24.00	21.86	22.07	21.92	23.00
	36 (RB_Pos:20)	22.95	23.03	23.01	24.00	22.02	22.01	21.95	23.00
	36 (RB_Pos:39)	22.99	23.06	22.93	24.00	21.81	21.84	21.80	23.00
	75 (RB_Pos:0)	23.01	23.01	22.99	24.00	21.87	21.87	21.76	23.00

TDD LTE Band 26									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26765	26865	26965		26765	26865	26965	
15MHz	1 (RB_Pos:0)	23.82	23.85	23.87	25.00	22.94	23.27	23.26	24.00
	1 (RB_Pos:50)	23.69	23.83	23.68	25.00	23.00	23.46	23.46	24.00
	1 (RB_Pos:99)	23.66	23.70	23.76	25.00	22.95	23.41	23.37	24.00
	50 (RB_Pos:0)	22.93	22.83	23.01	24.00	22.05	22.09	21.93	23.00
	50 (RB_Pos:25)	22.93	22.89	22.91	24.00	22.02	22.06	21.97	23.00

	50 (RB_Pos:50)	22.90	22.99	22.90	24.00	21.97	22.08	21.98	23.00
	100 (RB_Pos:0)	22.85	23.01	22.96	24.00	22.03	21.94	22.04	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26740	26865	26990		26740	26865	26990	
10MHz	1 (RB_Pos:0)	23.63	23.87	23.86	25.00	22.84	23.34	23.07	24.00
	1 (RB_Pos:38)	23.71	23.62	23.81	25.00	22.90	23.43	23.10	24.00
	1 (RB_Pos:74)	23.72	23.65	23.79	25.00	22.99	23.36	23.00	24.00
	36 (RB_Pos:0)	23.13	22.96	22.95	24.00	21.99	22.21	22.09	23.00
	36 (RB_Pos:20)	23.11	23.08	23.04	24.00	22.13	22.04	22.24	23.00
	36 (RB_Pos:39)	23.03	23.08	22.87	24.00	22.02	22.05	22.04	23.00
	75 (RB_Pos:0)	23.10	22.92	22.97	24.00	22.02	22.07	22.01	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26715	26865	27015		26715	26865	27015	
5MHz	1 (RB_Pos:0)	23.82	23.87	23.65	25.00	23.14	23.49	23.27	24.00
	1 (RB_Pos:25)	24.00	23.76	23.91	25.00	23.24	23.49	23.17	24.00
	1 (RB_Pos:49)	23.82	23.82	23.76	25.00	23.12	23.44	23.11	24.00
	25 (RB_Pos:0)	23.11	23.01	22.94	24.00	22.18	22.16	22.09	23.00
	25 (RB_Pos:12)	23.03	22.98	23.16	24.00	22.21	22.13	22.19	23.00
	25 (RB_Pos:25)	23.14	22.92	23.10	24.00	22.12	22.12	22.28	23.00
	50 (RB_Pos:0)	23.05	22.96	22.97	24.00	22.18	22.06	22.09	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26705	26865	27025		26705	26865	27025	
3MHz	1 (RB_Pos:0)	23.83	23.87	23.87	25.00	23.00	23.41	23.24	24.00
	1 (RB_Pos:13)	23.74	23.62	23.82	25.00	22.94	23.38	22.91	24.00
	1 (RB_Pos:24)	23.81	23.64	23.75	25.00	22.88	23.40	23.02	24.00
	12 (RB_Pos:0)	23.01	22.90	23.02	24.00	22.20	21.99	22.08	23.00
	12 (RB_Pos:6)	23.19	23.07	22.97	24.00	22.30	22.09	22.18	23.00
	12 (RB_Pos:13)	23.06	22.94	22.90	24.00	22.05	22.13	22.18	23.00
	25 (RB_Pos:0)	23.02	23.05	23.18	24.00	22.12	22.06	22.12	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26697	26865	27033		26697	26865	27033	
1.4MHz	1 (RB_Pos:0)	23.68	23.67	23.66	25.00	22.91	23.33	22.88	24.00
	1 (RB_Pos:13)	23.72	23.79	23.83	25.00	23.16	23.23	23.08	24.00
	1 (RB_Pos:24)	23.61	23.57	23.70	25.00	23.09	23.28	23.04	24.00
	12 (RB_Pos:0)	23.58	23.72	23.68	25.00	23.07	23.17	23.14	24.00
	12 (RB_Pos:6)	23.63	23.84	23.81	25.00	23.04	23.11	23.15	24.00
	12 (RB_Pos:13)	23.67	23.77	23.70	25.00	22.86	23.01	23.02	24.00

	25 (RB_Pos:0)	22.83	22.82	22.85	24.00	22.23	21.87	22.17	23.00
TDD LTE Band 66									
Bandwidth (MHz)	RB Set	Power (dBm)							
	Channel	QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		132072	132322	132572		132072	132322	132572	
20MHz	1 (RB_Pos:0)	23.58	24.03	23.71	25.00	23.29	23.62	23.37	24.00
	1 (RB_Pos:50)	23.65	23.79	23.52	25.00	23.37	23.31	23.22	24.00
	1 (RB_Pos:99)	23.68	23.89	23.69	25.00	23.39	23.52	23.47	24.00
	50 (RB_Pos:0)	22.80	23.14	23.08	24.00	21.88	22.35	21.99	23.00
	50 (RB_Pos:25)	23.01	22.94	22.95	24.00	22.14	22.23	21.94	23.00
	50 (RB_Pos:50)	22.92	22.79	23.00	24.00	21.88	22.38	22.07	23.00
	100 (RB_Pos:0)	23.20	23.11	22.98	24.00	22.22	22.23	21.99	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
	Channel	QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		132047	132322	132597		132047	132322	132597	
15MHz	1 (RB_Pos:0)	23.82	23.94	23.82	25.00	22.90	23.70	23.49	24.00
	1 (RB_Pos:38)	23.48	23.68	23.61	25.00	22.77	23.59	23.44	24.00
	1 (RB_Pos:74)	23.70	23.96	23.67	25.00	22.94	23.61	23.34	24.00
	36 (RB_Pos:0)	22.79	23.13	22.84	24.00	22.02	22.02	22.09	23.00
	36 (RB_Pos:20)	22.82	22.93	22.76	24.00	22.13	21.99	21.88	23.00
	36 (RB_Pos:39)	23.00	22.95	22.72	24.00	21.92	22.27	21.79	23.00
	75 (RB_Pos:0)	22.90	22.83	22.82	24.00	22.13	22.21	21.91	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
	Channel	QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		132022	132322	132622		132022	132322	132622	
10MHz	1 (RB_Pos:0)	23.72	23.70	23.69	25.00	22.87	23.40	23.07	24.00
	1 (RB_Pos:25)	23.50	23.74	23.61	25.00	22.74	23.47	23.00	24.00
	1 (RB_Pos:49)	23.68	23.80	23.63	25.00	22.77	23.45	23.05	24.00
	25 (RB_Pos:0)	22.98	23.18	22.80	24.00	22.02	22.12	22.00	23.00
	25 (RB_Pos:12)	22.67	23.10	23.07	24.00	22.08	22.19	22.08	23.00
	25 (RB_Pos:25)	22.85	23.12	22.88	24.00	21.98	22.26	21.92	23.00
	50 (RB_Pos:0)	23.06	23.07	22.89	24.00	21.90	22.08	22.06	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
	Channel	QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		131997	132322	132647		131997	132322	132647	
5MHz	1 (RB_Pos:0)	23.53	23.75	23.68	25.00	23.07	23.69	23.05	24.00
	1 (RB_Pos:13)	23.78	23.89	23.62	25.00	23.17	23.64	22.88	24.00
	1 (RB_Pos:24)	23.44	23.61	23.70	25.00	22.96	23.63	23.32	24.00
	12 (RB_Pos:0)	22.71	22.92	22.81	24.00	22.12	22.33	21.89	23.00

	12 (RB_Pos:6)	22.86	23.01	22.93	24.00	22.05	22.38	21.86	23.00
	12 (RB_Pos:13)	22.70	22.91	22.98	24.00	21.98	22.29	21.88	23.00
	25 (RB_Pos:0)	22.69	23.13	23.02	24.00	21.90	22.13	22.08	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	131987	132322	132657		131987	132322	132657	
3MHz	1 (RB_Pos:0)	23.46	23.84	23.74	25.00	22.53	23.38	23.04	24.00
	1 (RB_Pos:25)	23.72	23.83	23.78	25.00	22.74	23.33	22.78	24.00
	1 (RB_Pos:49)	23.61	23.85	23.51	25.00	23.01	23.37	23.05	24.00
	25 (RB_Pos:0)	22.81	22.87	22.82	24.00	21.72	22.04	21.97	23.00
	25 (RB_Pos:12)	22.94	22.93	22.72	24.00	21.86	22.10	22.00	23.00
	25 (RB_Pos:25)	22.77	22.97	22.66	24.00	21.85	22.06	21.92	23.00
	50 (RB_Pos:0)	22.83	22.91	22.73	24.00	21.97	22.21	21.89	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	131979	132322	132665		131979	132322	132665	
1.4MHz	1 (RB_Pos:0)	23.33	23.63	23.53	25.00	22.80	23.33	22.83	24.00
	1 (RB_Pos:13)	23.42	23.69	23.47	25.00	23.04	23.33	23.04	24.00
	1 (RB_Pos:24)	23.33	23.62	23.58	25.00	23.10	23.30	22.99	24.00
	12 (RB_Pos:0)	23.67	23.75	23.55	25.00	22.85	23.22	23.03	24.00
	12 (RB_Pos:6)	23.57	23.70	23.69	25.00	22.96	23.14	23.14	24.00
	12 (RB_Pos:13)	23.49	23.70	23.63	25.00	22.71	23.21	23.01	24.00
	25 (RB_Pos:0)	22.64	22.90	22.83	24.00	21.85	21.93	21.89	23.00

TDD LTE Band 38									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37850	38000	38150		37850	38000	38150	
20MHz	1 (RB_Pos:0)	24.21	24.19	24.33	25.00	23.72	23.63	23.96	24.50
	1 (RB_Pos:50)	24.10	24.01	24.18	25.00	23.71	23.64	23.68	24.50
	1 (RB_Pos:99)	24.21	24.09	24.24	25.00	23.61	23.51	23.83	24.50
	50 (RB_Pos:0)	23.41	23.29	23.45	24.00	22.47	22.58	22.43	23.50
	50 (RB_Pos:25)	23.33	23.31	23.18	24.00	22.41	22.39	22.39	23.50
	50 (RB_Pos:50)	23.35	23.32	23.29	24.00	22.46	22.31	22.35	23.50
	100 (RB_Pos:0)	23.49	23.38	23.38	24.00	22.53	22.36	22.40	23.50
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37825	38000	38175		37825	38000	38175	
15MHz	1 (RB_Pos:0)	24.02	24.20	24.31	25.00	23.78	23.85	23.79	24.50
	1 (RB_Pos:38)	24.16	24.05	24.21	25.00	23.67	23.75	23.57	24.50

	1 (RB_Pos:74)	24.16	24.06	24.08	25.00	23.69	23.80	23.53	24.50
	36 (RB_Pos:0)	23.29	23.45	23.23	24.00	22.48	22.42	22.47	23.50
	36 (RB_Pos:20)	23.43	23.50	23.18	24.00	22.47	22.31	22.43	23.50
	36 (RB_Pos:39)	23.42	23.19	23.14	24.00	22.40	22.27	22.40	23.50
	75 (RB_Pos:0)	23.36	23.32	23.24	24.00	22.51	22.54	22.46	23.50
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37800	38000	38200		37800	38000	38200	
10MHz	1 (RB_Pos:0)	24.12	24.27	24.11	25.00	23.58	23.73	23.79	24.50
	1 (RB_Pos:25)	24.15	24.07	24.29	25.00	23.64	23.73	23.73	24.50
	1 (RB_Pos:49)	23.93	24.14	24.13	25.00	23.64	23.84	23.86	24.50
	25 (RB_Pos:0)	23.33	23.33	23.27	24.00	22.50	22.42	22.34	23.50
	25 (RB_Pos:12)	23.27	23.40	23.20	24.00	22.52	22.48	22.36	23.50
	25 (RB_Pos:25)	23.20	23.46	23.33	24.00	22.34	22.46	22.37	23.50
	50 (RB_Pos:0)	23.31	23.42	23.19	24.00	22.31	22.41	22.27	23.50
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37775	38000	38225		37775	38000	38225	
5MHz	1 (RB_Pos:0)	24.10	24.24	24.30	25.00	23.68	23.83	23.78	24.50
	1 (RB_Pos:13)	24.05	24.23	24.30	25.00	23.66	23.92	23.74	24.50
	1 (RB_Pos:24)	24.16	24.08	24.15	25.00	23.66	23.65	23.72	24.50
	12 (RB_Pos:0)	23.29	23.49	23.29	24.00	22.53	22.43	22.38	23.50
	12 (RB_Pos:6)	23.35	23.40	23.49	24.00	22.29	22.65	22.54	23.50
	12 (RB_Pos:13)	23.33	23.27	23.46	24.00	22.42	22.46	22.52	23.50
	25 (RB_Pos:0)	23.29	23.46	23.34	24.00	22.38	22.41	22.43	23.50

TDD LTE Band 41													
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)	24.39	24.22	24.19	24.26	24.25	25.00	23.74	23.68	23.76	23.70	23.97	24.50
	1 (RB_Pos:50)	24.01	24.08	24.05	24.18	24.22	25.00	23.65	23.54	23.58	23.52	23.83	24.50
	1 (RB_Pos:99)	24.03	24.03	24.11	24.04	24.19	25.00	23.56	23.67	23.48	23.67	23.86	24.50
	50 (RB_Pos:0)	23.52	23.50	23.48	23.45	23.36	24.00	22.39	22.59	22.54	22.51	22.50	23.50
	50 (RB_Pos:25)	23.36	23.33	23.50	23.37	23.34	24.00	22.54	22.50	22.50	22.58	22.44	23.50
	50 (RB_Pos:50)	23.17	23.33	23.24	23.25	23.39	24.00	22.25	22.38	22.32	22.46	22.48	23.50
	100 (RB_Pos:0)	23.34	23.50	23.30	23.48	23.48	24.00	22.52	22.45	22.41	22.60	22.42	23.50
Bandwidth (MHz)	RB Set	Power (dBm)											
		QPSK					Tune up	16QAM				Tune up	
	Channel	39725	40160	40620	41080	41515		39725	40160	40620	41080		41515

							limit (dBm)						limit (dBm)
15MHz	1 (RB_Pos:0)	24.13	24.26	24.34	24.27	24.35	25.00	23.82	24.10	24.06	24.02	23.84	24.50
	1 (RB_Pos:50)	24.19	24.27	24.15	24.27	24.14	25.00	23.72	23.77	23.75	23.90	23.84	24.50
	1 (RB_Pos:99)	23.96	24.12	24.09	24.03	24.21	25.00	23.63	23.91	23.75	23.82	23.68	24.50
	50 (RB_Pos:0)	23.25	23.30	23.31	23.50	23.49	24.00	22.48	22.41	22.44	22.47	22.49	23.50
	50 (RB_Pos:25)	23.45	23.38	23.48	23.32	23.51	24.00	22.53	22.51	22.37	22.60	22.51	23.50
	50 (RB_Pos:50)	23.46	23.30	23.30	23.31	23.20	24.00	22.49	22.50	22.51	22.47	22.39	23.50
	100 (RB_Pos:0)	23.47	23.25	23.26	23.30	23.41	24.00	22.33	22.49	22.48	22.53	22.47	23.50
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)	24.19	24.13	24.12	24.14	24.30	25.00	23.68	23.81	23.97	23.77	23.85	24.50
	1 (RB_Pos:50)	24.24	24.17	24.10	24.21	24.29	25.00	23.63	23.82	23.91	23.94	23.66	24.50
	1 (RB_Pos:99)	24.05	24.29	24.06	24.14	24.12	25.00	23.66	23.74	23.82	23.75	23.63	24.50
	50 (RB_Pos:0)	23.40	23.39	23.37	23.52	23.41	24.00	22.44	22.49	22.53	22.43	22.53	23.50
	50 (RB_Pos:25)	23.54	23.37	23.47	23.47	23.45	24.00	22.34	22.35	22.50	22.44	22.39	23.50
	50 (RB_Pos:50)	23.39	23.39	23.47	23.45	23.23	24.00	22.58	22.50	22.53	22.38	22.52	23.50
	100 (RB_Pos:0)	23.30	23.46	23.34	23.39	23.27	24.00	22.39	22.38	22.55	22.47	22.49	23.50
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)	24.24	24.21	24.32	24.25	24.03	25.00	23.76	23.73	23.72	23.75	23.73	24.50
	1 (RB_Pos:50)	24.35	24.26	24.23	24.24	24.25	25.00	23.85	23.92	23.90	23.85	23.62	24.50
	1 (RB_Pos:99)	24.17	24.24	24.18	24.19	24.04	25.00	23.68	23.85	23.90	23.80	23.45	24.50
	50 (RB_Pos:0)	23.46	23.30	23.51	23.51	23.40	24.00	22.45	22.64	22.44	22.57	22.40	23.50
	50 (RB_Pos:25)	23.30	23.32	23.39	23.33	23.29	24.00	22.59	22.47	22.61	22.50	22.52	23.50
	50 (RB_Pos:50)	23.32	23.30	23.27	23.46	23.40	24.00	22.36	22.53	22.46	22.61	22.40	23.50
	100 (RB_Pos:0)	23.42	23.44	23.34	23.35	23.37	24.00	22.52	22.50	22.38	22.36	22.54	23.50

8.4 Intra-Band Uplink CA Normal Power

Note:

1. This devices supports intra-band uplink CA of 7C / 38C / 41C
2. For intra-band uplink carrier aggregation power verification and measurement is selected highest PCC and SCC bandwidth combination to do and was according to 3GPP 36.52101 sectino6.2.2A.1 and section 6.2.2A.2 test procedure.
3. For intra-band uplink CA output power was measured high / middle / low channel combination, and for SAR verification is selected highest output power combination with each exposure condition in each frequency band using the highest SAR configuration test in standalone LTE mode.

LTE Uplink 2CA_ Bnad7									
Combination 20MHz+20MHz(100RB+100RB)									
PCC	SCC	Bnadwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.		
20850	21048	20	QPSK	1	High	1	Low	1	23.09
21100	20902	20	QPSK	1	Low	1	High	1	23.19
21350	21152	20	QPSK	1	Low	1	High	1	23.19
LTE Uplink 2CA_ Bnad38									
Combination 20MHz+20MHz(100RB+100RB)									
PCC	SCC	Bnadwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.		
37850	38048	20	QPSK	1	High	1	Low	1	23.22
38000	38099	20	QPSK	1	High	1	Low	1	23.14
38150	37952	20	QPSK	1	Low	1	High	1	23.35
LTE Uplink 2CA_ Bnad41									
Combination 20MHz+20MHz(100RB+100RB)									
PCC	SCC	Bnadwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.		
39750	39948	20	QPSK	1	High	1	Low	1	23.57
40185	40383	20	QPSK	1	High	1	Low	1	23.65
40620	40422	20	QPSK	1	Low	1	High	1	23.65
41055	40857	20	QPSK	1	Low	1	High	1	23.64
41490	41292	20	QPSK	1	Low	1	High	1	23.38

8.5 WIFI

8.5.1 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	14.34	15.00	Yes
		6	2437	15.96	17.00	Yes
		11	2462	14.35	15.00	Yes
	802.11g	1	2412	14.00	15.00	No
		6	2437	15.62	16.00	No
		11	2462	13.96	15.00	No
	802.11n(HT20)	1	2412	13.83	15.00	No
		6	2437	15.48	16.00	No
		11	2462	13.77	15.00	No
	802.11ac(VHT20)	1	2412	13.80	15.00	No
		6	2437	15.45	16.00	No
		11	2462	13.84	15.00	No

8.5.2 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	14.72	15.00	Yes
		44	5220	17.48	18.00	Yes
		48	5240	17.71	18.00	Yes
	802.11n(HT20)	36	5180	14.50	15.00	No
		44	5220	17.31	18.00	No
		48	5240	17.55	18.00	No
	802.11n(HT40)	38	5190	14.85	15.00	No
		46	5230	17.67	18.00	No
	802.11ac(VHT20)	36	5180	14.49	15.00	No
		44	5220	17.27	18.00	No
		48	5240	17.53	18.00	No
	802.11ac(VHT40)	38	5190	14.85	15.00	No
		46	5230	17.68	18.00	No
	802.11ac(VHT80)	42	5210	14.60	15.00	No
	5.3 (5.25~5.35)	802.11a	52	5260	17.92	19.00
60			5300	16.67	17.00	Yes
64			5320	17.03	19.00	Yes
802.11n(HT20)		52	5260	17.76	19.00	No
		60	5300	16.47	17.00	No
		64	5320	18.41	19.00	No

	802.11n(HT40)	54	5270	17.25	18.00	No
		62	5310	15.55	16.00	No
	802.11ac(VHT20)	52	5260	17.73	18.00	No
		60	5300	16.51	17.00	No
		64	5320	16.87	17.00	No
	802.11ac(VHT40)	54	5270	17.2	18.00	No
		62	5310	15.56	16.00	No
802.11ac(VHT80)	58	5290	14.35	15.00	No	
5.6 (5.47~5.725)	802.11a	100	5500	15.71	17.00	Yes
		116	5580	18.97	20.00	Yes
		140	5700	18.8	20.00	Yes
	802.11n(HT20)	100	5500	14.47	16.00	No
		116	5580	18.77	20.00	No
		140	5700	18.64	20.00	No
	802.11n(HT40)	102	5510	15.92	17.00	No
		118	5590	18.42	20.00	No
		134	5670	18.37	20.00	No
	802.11ac(VHT20)	100	5500	14.39	16.00	No
		116	5580	18.76	20.00	No
		140	5700	18.63	20.00	No
	802.11ac(VHT40)	102	5510	15.88	17.00	No
		118	5590	18.43	20.00	No
		134	5670	18.34	20.00	No
	802.11ac(VHT80)	106	5530	14.58	16.00	No
		122	5690	18.12	19.00	No
	5.8 (5.725~5.850)	802.11a	149	5745	15.41	16.50
157			5785	15.19	16.50	Yes
165			5825	15.52	16.50	Yes
802.11n(HT20)		149	5745	15.25	16.50	No
		157	5785	15.08	16.50	No
		165	5825	15.36	16.50	No
802.11n(HT40)		151	5755	15.53	16.50	No
		159	5795	15.33	16.50	No
802.11ac(VHT20)		149	5745	15.29	16.50	No
		157	5785	15.08	16.50	No
		165	5825	15.34	16.50	No
802.11ac(VHT40)		151	5755	15.53	16.50	No
		159	5795	15.36	16.50	No
802.11ac(VHT80)		155	5775	15.02	16.50	No

8.6 Bluetooth

Mode	GFSK			$\pi/4$ -DQPSK		
Channel	0	39	78	0	39	78
Frequency (MHz)	2402	2441	2480	2402	2441	2480
Conducted Power (dBm)	11.46	11.57	12.50	11.10	11.04	12.20
Tune-Up Limit (dBm)	12.80			12.80		
Mode	8-DPSK			/		
Channel	0	39	78	/	/	/
Frequency (MHz)	2402	2441	2480	/	/	/
Conducted Power (dBm)	11.31	11.25	12.32	/	/	/
Tune-Up Limit (dBm)	12.80			/		
Mode	BLE (1Mbps)			BLE (2Mbps)		
Channel	0	19	39	0	19	39
Frequency (MHz)	2402	2440	2480	2402	2440	2480
Conducted Power (dBm)	4.59	5.35	7.83	4.83	5.43	7.97
Tune-Up Limit (dBm)	8.00			8.00		

8.7 Power Reduction List

8.7.1 Power Reduced Level 1&2&3 of GSM 850

GSM 1900								
GSM1900 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)	29.43	29.64	29.69	31.00	20.24	20.45	20.50	21.81
GPRS (GMSK, 1-Slot)	29.38	29.72	29.77	31.00	20.19	20.53	20.58	21.81
GPRS (GMSK, 2-Slots)	26.70	26.89	26.90	27.50	20.57	20.76	20.77	21.37
GPRS (GMSK, 3-Slots)	25.04	24.99	25.07	26.00	20.62	20.57	20.65	21.58
GPRS (GMSK, 4-Slots)	23.67	23.95	24.00	25.00	20.49	20.77	20.82	21.82
EGPRS (8PSK, 1-Slot)	23.82	23.35	23.51	25.00	14.63	14.16	14.32	15.81
EGPRS (8PSK, 2-Slots)	21.22	21.59	21.58	23.00	15.09	15.46	15.45	16.87
EGPRS (8PSK, 3-Slots)	20.35	20.18	20.12	22.00	15.93	15.76	15.70	17.58
EGPRS (8PSK, 4-Slots)	19.68	19.76	19.67	21.00	16.50	16.58	16.49	17.82

8.7.2 Power Reduced Level 7&8&9 of GSM 850

GSM 1900								
GSM1900 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)	30.57	30.61	30.81	32.00	21.38	21.42	21.62	22.81
GPRS (GMSK, 1-Slot)	30.34	30.65	30.61	32.00	21.15	21.46	21.42	22.81
GPRS (GMSK, 2-Slots)	27.61	27.85	27.88	28.50	21.48	21.72	21.75	22.37
GPRS (GMSK, 3-Slots)	25.94	26.06	26.25	27.00	21.52	21.64	21.83	22.58
GPRS (GMSK, 4-Slots)	24.62	24.94	25.11	26.00	21.44	21.76	21.93	22.82
EGPRS (8PSK, 1-Slot)	24.73	24.46	24.56	26.00	15.54	15.27	15.37	16.81
EGPRS (8PSK, 2-Slots)	22.23	22.42	22.32	24.00	16.10	16.29	16.19	17.87
EGPRS (8PSK, 3-Slots)	21.01	20.88	21.26	23.00	16.59	16.46	16.84	18.58
EGPRS (8PSK, 4-Slots)	20.62	20.58	20.58	22.00	17.44	17.40	17.40	18.82

8.7.3 Power Reduced Level 1&2&3 of GSM 1900

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)	22.05	21.87	21.91	23.00	12.86	12.68	12.72	13.81
GPRS (GMSK, 1-Slot)	22.05	21.78	21.86	23.00	12.86	12.59	12.67	13.81
GPRS (GMSK, 2-Slots)	19.24	19.07	19.45	20.00	13.11	12.94	13.32	13.87
GPRS (GMSK, 3-Slots)	18.02	17.82	18.15	19.00	13.60	13.40	13.73	14.58
GPRS (GMSK, 4-Slots)	16.22	16.41	16.40	17.00	13.04	13.23	13.22	13.82
EGPRS (8PSK, 1-Slot)	17.67	17.50	17.28	19.00	8.48	8.31	8.09	9.81
EGPRS (8PSK, 2-Slots)	15.37	15.39	15.41	17.00	9.24	9.26	9.28	10.87
EGPRS (8PSK, 3-Slots)	14.13	14.06	14.11	16.00	9.71	9.64	9.69	11.58
EGPRS (8PSK, 4-Slots)	12.70	12.88	13.01	14.00	9.52	9.70	9.83	10.82

8.7.4 Power Reduced Level 4&5&6 of GSM 1900

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)	26.00	25.88	25.90	27.00	16.81	16.69	16.71	17.81
GPRS (GMSK, 1-Slot)	26.06	25.83	25.79	27.00	16.87	16.64	16.60	17.81
GPRS (GMSK, 2-Slots)	23.24	23.12	23.20	24.00	17.11	16.99	17.07	17.87
GPRS (GMSK, 3-Slots)	21.95	21.89	22.18	23.00	17.53	17.47	17.76	18.58
GPRS (GMSK, 4-Slots)	20.28	20.64	20.50	21.00	17.10	17.46	17.32	17.82
EGPRS (8PSK, 1-Slot)	21.85	21.50	21.55	23.00	12.66	12.31	12.36	13.81
EGPRS (8PSK, 2-Slots)	19.43	19.61	19.56	21.00	13.30	13.48	13.43	14.87
EGPRS (8PSK, 3-Slots)	18.07	18.05	18.03	20.00	13.65	13.63	13.61	15.58
EGPRS (8PSK, 4-Slots)	16.80	16.95	17.09	18.00	13.62	13.77	13.91	14.82

8.7.5 Power Reduced Level 7&8&9 of GSM 1900

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)	26.94	26.80	26.87	28.00	17.75	17.61	17.68	18.81
GPRS (GMSK, 1-Slot)	26.81	26.98	26.64	28.00	17.62	17.79	17.45	18.81
GPRS (GMSK, 2-Slots)	24.17	24.17	24.36	25.00	18.04	18.04	18.23	18.87
GPRS (GMSK, 3-Slots)	23.05	22.85	23.14	24.00	18.63	18.43	18.72	19.58
GPRS (GMSK, 4-Slots)	21.22	21.47	21.55	22.00	18.04	18.29	18.37	18.82
EGPRS (8PSK, 1-Slot)	22.92	22.59	22.33	24.00	13.73	13.40	13.14	14.81
EGPRS (8PSK, 2-Slots)	20.59	20.55	20.56	22.00	14.46	14.42	14.43	15.87
EGPRS (8PSK, 3-Slots)	19.14	19.15	19.22	21.00	14.72	14.73	14.80	16.58
EGPRS (8PSK, 4-Slots)	17.83	17.86	17.96	19.00	14.65	14.68	14.78	15.82

8.7.6 Power Reduced Level 1&2&3 of WCDMA Band 2

WCDMA	Band 2			
Channel	9262	9400	9538	Tune-up Limit (dBm)
AMR 12.2Kbps	15.18	15.42	15.51	16.00
RMC 12.2Kbps	15.19	15.47	15.58	16.00
HSDPA Subtest-1	14.45	14.62	14.58	15.00
HSDPA Subtest-2	14.42	14.51	14.44	15.00
HSDPA Subtest-3	13.91	13.93	13.90	14.50
HSDPA Subtest-4	13.82	13.98	13.86	14.50
DC-HSDPA Subtest-1	14.59	14.51	14.39	15.00
DC-HSDPA Subtest-2	14.11	14.34	14.42	15.00
DC-HSDPA Subtest-3	13.85	14.05	13.66	14.50
DC-HSDPA Subtest-4	14.04	14.18	13.80	14.50
HSUPA Subtest-1	14.53	14.47	14.45	15.00
HSUPA Subtest-2	12.50	12.72	12.35	13.00
HSUPA Subtest-3	13.33	13.59	13.32	14.00
HSUPA Subtest-4	12.21	12.56	12.24	13.00
HSUPA Subtest-5	14.57	14.70	14.27	15.00

8.7.7 Power Reduced Level 4&5&6 of WCDMA Band 2

WCDMA	Band 2			
Channel	9262	9400	9538	Tune-up Limit (dBm)
AMR 12.2Kbps	16.22	16.35	16.37	17.00
RMC 12.2Kbps	16.21	16.39	16.47	17.00
HSDPA Subtest-1	15.30	15.55	15.43	16.00
HSDPA Subtest-2	15.37	15.41	15.40	16.00
HSDPA Subtest-3	14.98	15.00	14.87	15.50
HSDPA Subtest-4	14.89	15.18	14.84	15.50
DC-HSDPA Subtest-1	15.63	15.50	15.49	16.00
DC-HSDPA Subtest-2	15.26	15.42	15.45	16.00
DC-HSDPA Subtest-3	14.88	15.00	14.81	15.50
DC-HSDPA Subtest-4	15.07	15.00	14.67	15.50
HSUPA Subtest-1	15.55	15.59	15.41	16.00
HSUPA Subtest-2	13.61	13.55	13.33	14.00
HSUPA Subtest-3	14.32	14.44	14.49	15.00
HSUPA Subtest-4	13.27	13.58	13.10	14.00
HSUPA Subtest-5	15.47	15.59	15.23	16.00

8.7.8 Power Reduced Level 7&8&9 of WCDMA Band 2

WCDMA	Band 2			
Channel	9262	9400	9538	Tune-up Limit (dBm)
AMR 12.2Kbps	20.28	20.39	20.41	21.00
RMC 12.2Kbps	20.28	20.53	20.55	21.00
HSDPA Subtest-1	19.42	19.61	19.57	20.00
HSDPA Subtest-2	19.21	19.38	19.36	20.00
HSDPA Subtest-3	19.03	18.95	18.83	19.50
HSDPA Subtest-4	18.98	19.02	18.89	19.50
DC-HSDPA Subtest-1	19.55	19.63	19.49	20.00
DC-HSDPA Subtest-2	19.08	19.48	19.40	20.00
DC-HSDPA Subtest-3	18.82	19.04	18.85	19.50
DC-HSDPA Subtest-4	19.15	19.12	18.68	19.50
HSUPA Subtest-1	19.38	19.51	19.46	20.00
HSUPA Subtest-2	17.59	17.54	17.31	18.00
HSUPA Subtest-3	18.38	18.58	18.31	19.00
HSUPA Subtest-4	17.27	17.71	17.17	18.00
HSUPA Subtest-5	19.51	19.69	19.23	20.00

8.7.9 Power Reduced Level 1&2&3 of WCDMA Band 4

WCDMA	Band 4			
Channel	1312	1412	1513	Tune-up Limit (dBm)
AMR 12.2Kbps	15.16	15.08	15.26	16.00
RMC 12.2Kbps	15.18	15.11	15.38	16.00
HSDPA Subtest-1	14.57	14.23	14.70	15.00
HSDPA Subtest-2	14.31	14.40	14.47	15.00
HSDPA Subtest-3	13.80	13.68	13.85	14.50
HSDPA Subtest-4	13.96	14.03	13.77	14.50
DC-HSDPA Subtest-1	14.57	14.46	14.25	15.00
DC-HSDPA Subtest-2	14.33	14.41	14.12	15.00
DC-HSDPA Subtest-3	14.07	14.03	14.07	14.50
DC-HSDPA Subtest-4	14.09	13.72	13.79	14.50
HSUPA Subtest-1	14.01	14.12	14.28	15.00
HSUPA Subtest-2	12.59	12.22	12.27	13.00
HSUPA Subtest-3	13.38	13.21	13.39	14.00
HSUPA Subtest-4	12.47	12.33	12.33	13.00
HSUPA Subtest-5	14.54	14.28	14.31	15.00

8.7.10 Power Reduced Level 4&5&6 of WCDMA Band 4

WCDMA	Band 4			
Channel	1312	1412	1513	Tune-up Limit (dBm)
AMR 12.2Kbps	16.30	16.15	16.39	17.00
RMC 12.2Kbps	16.34	16.18	16.44	17.00
HSDPA Subtest-1	15.38	15.27	15.50	16.00
HSDPA Subtest-2	15.44	15.41	15.38	16.00
HSDPA Subtest-3	14.83	14.75	15.06	15.50
HSDPA Subtest-4	14.85	14.91	14.77	15.50
DC-HSDPA Subtest-1	15.53	15.51	15.29	16.00
DC-HSDPA Subtest-2	15.29	15.36	15.23	16.00
DC-HSDPA Subtest-3	15.02	14.99	14.98	15.50
DC-HSDPA Subtest-4	15.19	14.74	14.90	15.50
HSUPA Subtest-1	14.89	15.00	15.31	16.00
HSUPA Subtest-2	13.44	13.18	13.32	14.00
HSUPA Subtest-3	14.36	14.35	14.46	15.00
HSUPA Subtest-4	13.41	13.37	13.37	14.00
HSUPA Subtest-5	15.59	15.15	15.34	16.00

8.7.11 Power Reduced Level 7&8&9 of WCDMA Band 4

WCDMA	Band 4			
Channel	1312	1412	1513	Tune-up Limit (dBm)
AMR 12.2Kbps	20.24	20.19	20.31	21.00
RMC 12.2Kbps	20.32	20.24	20.40	21.00
HSDPA Subtest-1	19.53	19.26	19.66	20.00
HSDPA Subtest-2	19.52	19.51	19.52	20.00
HSDPA Subtest-3	18.89	18.86	18.94	19.50
HSDPA Subtest-4	18.94	18.95	18.70	19.50
DC-HSDPA Subtest-1	19.44	19.34	19.24	20.00
DC-HSDPA Subtest-2	19.16	19.34	19.09	20.00
DC-HSDPA Subtest-3	19.01	18.90	19.06	19.50
DC-HSDPA Subtest-4	19.11	18.79	19.00	19.50
HSUPA Subtest-1	19.01	19.09	19.27	20.00
HSUPA Subtest-2	17.45	17.19	17.26	18.00
HSUPA Subtest-3	18.37	18.18	18.39	19.00
HSUPA Subtest-4	17.43	17.40	17.49	18.00
HSUPA Subtest-5	19.59	19.15	19.36	20.00

8.7.12 Power Reduced Level 1&2&3 of WCDMA Band 5

WCDMA	Band 5			
Channel	4132	4182	4233	Tune-up Limit (dBm)
AMR 12.2Kbps	20.78	20.91	21.05	22.00
RMC 12.2Kbps	20.83	20.94	21.14	22.00
HSDPA Subtest-1	19.85	20.00	20.08	21.00
HSDPA Subtest-2	19.83	19.83	19.82	21.00
HSDPA Subtest-3	19.44	19.25	19.63	20.50
HSDPA Subtest-4	19.28	19.24	19.35	20.50
DC-HSDPA Subtest-1	19.88	19.70	19.67	21.00
DC-HSDPA Subtest-2	19.52	19.93	20.05	21.00
DC-HSDPA Subtest-3	19.69	19.67	19.40	20.50
DC-HSDPA Subtest-4	19.44	19.41	19.39	20.50
HSUPA Subtest-1	19.45	19.59	19.87	21.00
HSUPA Subtest-2	17.68	17.93	17.84	19.00
HSUPA Subtest-3	19.03	19.08	18.96	20.00
HSUPA Subtest-4	17.86	17.95	17.91	19.00
HSUPA Subtest-5	19.85	19.80	19.80	21.00

8.7.13 Power Reduced Level 7&8&9 of WCDMA Band 5

WCDMA	Band 5			
Channel	4132	4182	4233	Tune-up Limit (dBm)
AMR 12.2Kbps	21.83	21.85	21.97	23.00
RMC 12.2Kbps	21.92	21.93	22.16	23.00
HSDPA Subtest-1	20.94	20.82	21.01	22.00
HSDPA Subtest-2	20.84	20.63	20.89	22.00
HSDPA Subtest-3	20.43	20.26	20.40	21.50
HSDPA Subtest-4	20.40	20.28	20.45	21.50
DC-HSDPA Subtest-1	21.03	20.56	20.79	22.00
DC-HSDPA Subtest-2	20.69	20.79	20.97	22.00
DC-HSDPA Subtest-3	20.63	20.65	20.59	21.50
DC-HSDPA Subtest-4	20.54	20.36	20.20	21.50
HSUPA Subtest-1	20.60	20.56	20.84	22.00
HSUPA Subtest-2	18.85	18.86	19.00	20.00
HSUPA Subtest-3	20.01	20.02	19.84	21.00
HSUPA Subtest-4	18.94	18.90	19.08	20.00
HSUPA Subtest-5	21.00	20.88	20.93	22.00

8.7.14 Power Reduced Level 1&2&3 of LTE Band 2

FDD LTE Band 2									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18700	18900	19100		18700	18900	19100	
20 MHz	1 (RB_Pos:0)	13.88	14.27	13.99	15.00	14.27	14.47	14.44	15.00
	1 (RB_Pos:50)	13.95	13.92	14.22	15.00	14.20	14.40	14.44	15.00
	1 (RB_Pos:99)	13.90	14.30	14.16	15.00	14.33	14.58	14.33	15.00
	50 (RB_Pos:0)	14.02	14.38	14.28	15.00	14.48	14.55	14.35	15.00
	50 (RB_Pos:25)	14.14	13.96	14.26	15.00	14.48	14.18	14.25	15.00
	50 (RB_Pos:50)	14.32	13.87	14.32	15.00	14.24	14.27	14.12	15.00
	100 (RB_Pos:0)	14.13	14.31	14.00	15.00	14.56	14.30	14.28	15.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18675	18900	19125		18675	18900	19125	
15 MHz	1 (RB_Pos:0)	13.97	13.89	14.08	15.00	14.10	14.28	14.53	15.00
	1 (RB_Pos:38)	14.19	14.21	14.11	15.00	14.31	14.41	14.46	15.00
	1 (RB_Pos:74)	14.00	14.04	13.88	15.00	14.41	14.31	14.33	15.00
	36 (RB_Pos:0)	14.08	14.13	13.89	15.00	14.46	14.39	14.37	15.00
	36 (RB_Pos:20)	14.19	14.11	13.99	15.00	14.38	14.40	14.06	15.00
	36 (RB_Pos:39)	14.28	14.26	14.20	15.00	14.56	14.43	14.37	15.00
	75 (RB_Pos:0)	14.17	14.07	14.39	15.00	14.22	14.32	14.11	15.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18650	18900	19150		18650	18900	19150	
10 MHz	1 (RB_Pos:0)	13.90	13.86	14.00	15.00	14.38	14.31	14.35	15.00
	1 (RB_Pos:25)	14.01	13.85	13.96	15.00	14.37	14.30	14.41	15.00
	1 (RB_Pos:49)	13.97	14.06	14.16	15.00	14.28	14.26	14.52	15.00
	25 (RB_Pos:0)	14.21	14.39	14.03	15.00	14.56	14.23	14.52	15.00
	25 (RB_Pos:12)	14.25	14.31	14.02	15.00	14.23	14.58	14.50	15.00
	25 (RB_Pos:25)	14.27	14.13	13.87	15.00	14.51	14.47	14.24	15.00
	50 (RB_Pos:0)	14.28	14.18	13.87	15.00	14.27	14.49	14.31	15.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18625	18900	19175		18625	18900	19175	
5 MHz	1 (RB_Pos:0)	14.39	14.17	14.15	15.00	14.52	14.32	14.44	15.00
	1 (RB_Pos:13)	14.38	14.21	14.04	15.00	14.17	14.35	14.48	15.00
	1 (RB_Pos:24)	14.31	14.25	14.00	15.00	14.25	14.41	14.47	15.00
	12 (RB_Pos:0)	14.22	13.91	14.12	15.00	14.29	14.37	14.57	15.00
	12 (RB_Pos:6)	14.09	13.96	14.20	15.00	14.44	14.11	14.44	15.00
	12 (RB_Pos:13)	14.00	13.95	14.31	15.00	14.13	14.27	14.19	15.00

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	18615	18900		19185	18615	18900	
25 (RB_Pos:0)		14.19	14.30	13.88	15.00	14.33	14.14	14.35	15.00
3.0 MHz	1 (RB_Pos:0)	13.94	14.10	14.19	15.00	14.41	14.57	14.54	15.00
	1 (RB_Pos:8)	14.07	13.95	14.01	15.00	14.11	14.26	14.09	15.00
	1 (RB_Pos:14)	13.96	14.22	14.24	15.00	14.22	14.42	14.23	15.00
	8 (RB_Pos:0)	14.32	14.14	13.97	15.00	14.47	14.21	14.24	15.00
	8 (RB_Pos:3)	14.09	14.39	14.28	15.00	14.34	14.09	14.53	15.00
	8 (RB_Pos:7)	14.31	14.05	14.28	15.00	14.15	14.11	14.45	15.00
	15 (RB_Pos:0)	14.27	14.02	14.20	15.00	14.15	14.42	14.18	15.00
1.4 MHz	1 (RB_Pos:0)	13.88	14.16	14.01	15.00	14.15	14.19	14.16	15.00
	1 (RB_Pos:3)	14.30	14.20	14.13	15.00	14.25	14.49	14.25	15.00
	1 (RB_Pos:5)	14.02	14.00	13.99	15.00	14.18	14.44	14.26	15.00
	3 (RB_Pos:0)	14.34	13.90	13.88	15.00	14.53	14.08	14.32	15.00
	3 (RB_Pos:1)	14.37	14.13	13.99	15.00	14.20	14.55	14.14	15.00
	3 (RB_Pos:3)	14.39	14.16	14.32	15.00	14.55	14.48	14.24	15.00
	6 (RB_Pos:0)	14.27	14.28	14.27	15.00	14.33	14.39	14.06	15.00

8.7.15 Power Reduced Level 4&5&6 of LTE Band 2

FDD LTE Band 2									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	18700	18900		19100	18700	18900	
20 MHz	1 (RB_Pos:0)	17.00	17.27	16.92	18.00	17.10	17.34	17.33	18.00
	1 (RB_Pos:50)	16.99	17.29	17.15	18.00	17.47	17.34	17.56	18.00
	1 (RB_Pos:99)	17.12	17.33	16.93	18.00	17.12	17.61	17.33	18.00
	50 (RB_Pos:0)	17.06	17.38	17.29	18.00	17.53	17.09	17.60	18.00
	50 (RB_Pos:25)	16.86	16.87	17.19	18.00	17.17	17.14	17.33	18.00
	50 (RB_Pos:50)	17.02	17.18	17.14	18.00	17.26	17.30	17.54	18.00
	100 (RB_Pos:0)	17.29	17.01	16.94	18.00	17.46	17.07	17.40	18.00
15 MHz	1 (RB_Pos:0)	17.07	16.98	17.40	18.00	17.30	17.10	17.55	18.00
	1 (RB_Pos:38)	16.98	17.40	17.26	18.00	17.37	17.60	17.35	18.00
	1 (RB_Pos:74)	17.38	17.23	16.97	18.00	17.27	17.46	17.10	18.00

	36 (RB_Pos:0)	17.25	17.18	17.30	18.00	17.22	17.11	17.60	18.00
	36 (RB_Pos:20)	17.38	16.90	17.33	18.00	17.46	17.35	17.53	18.00
	36 (RB_Pos:39)	17.01	17.38	16.90	18.00	17.14	17.36	17.29	18.00
	75 (RB_Pos:0)	17.31	17.14	17.16	18.00	17.19	17.56	17.09	18.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18650	18900	19150		18650	18900	19150	
10 MHz	1 (RB_Pos:0)	17.29	16.93	16.94	18.00	17.30	17.38	17.39	18.00
	1 (RB_Pos:25)	17.06	17.33	17.21	18.00	17.07	17.37	17.36	18.00
	1 (RB_Pos:49)	17.24	17.31	16.98	18.00	17.36	17.60	17.44	18.00
	25 (RB_Pos:0)	16.88	17.16	17.28	18.00	17.34	17.34	17.25	18.00
	25 (RB_Pos:12)	17.33	16.98	17.03	18.00	17.47	17.29	17.35	18.00
	25 (RB_Pos:25)	17.14	17.17	16.96	18.00	17.08	17.56	17.45	18.00
	50 (RB_Pos:0)	17.38	17.33	16.89	18.00	17.40	17.25	17.31	18.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18625	18900	19175		18625	18900	19175	
5 MHz	1 (RB_Pos:0)	17.00	17.07	17.22	18.00	17.41	17.50	17.60	18.00
	1 (RB_Pos:13)	17.34	17.21	17.09	18.00	17.34	17.32	17.47	18.00
	1 (RB_Pos:24)	17.04	17.07	17.09	18.00	17.17	17.21	17.54	18.00
	12 (RB_Pos:0)	17.03	17.31	16.85	18.00	17.32	17.48	17.15	18.00
	12 (RB_Pos:6)	16.97	16.96	17.16	18.00	17.24	17.11	17.28	18.00
	12 (RB_Pos:13)	16.87	17.16	16.96	18.00	17.31	17.60	17.30	18.00
	25 (RB_Pos:0)	17.09	17.14	17.17	18.00	17.20	17.44	17.60	18.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18615	18900	19185		18615	18900	19185	
3.0 MHz	1 (RB_Pos:0)	17.03	17.22	17.18	18.00	17.25	17.25	17.25	18.00
	1 (RB_Pos:8)	17.36	16.92	17.35	18.00	17.15	17.08	17.24	18.00
	1 (RB_Pos:14)	16.92	17.19	17.07	18.00	17.41	17.46	17.46	18.00
	8 (RB_Pos:0)	17.29	16.97	17.16	18.00	17.20	17.37	17.50	18.00
	8 (RB_Pos:3)	17.10	17.29	17.07	18.00	17.11	17.32	17.49	18.00
	8 (RB_Pos:7)	17.29	17.17	17.26	18.00	17.30	17.60	17.54	18.00
	15 (RB_Pos:0)	17.11	17.05	17.40	18.00	17.12	17.20	17.06	18.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18607	18900	19193		18607	18900	19193	
1.4 MHz	1 (RB_Pos:0)	17.21	17.26	17.11	18.00	17.13	17.57	17.35	18.00
	1 (RB_Pos:3)	17.27	17.01	16.91	18.00	17.54	17.31	17.28	18.00
	1 (RB_Pos:5)	17.40	17.09	16.88	18.00	17.28	17.56	17.32	18.00
	3 (RB_Pos:0)	17.19	17.37	17.19	18.00	17.18	17.14	17.53	18.00

	3 (RB_Pos:1)	16.90	17.06	17.17	18.00	17.09	17.18	17.07	18.00
	3 (RB_Pos:3)	16.99	16.94	17.21	18.00	17.45	17.19	17.07	18.00
	6 (RB_Pos:0)	17.03	17.19	16.96	18.00	17.39	17.17	17.06	18.00

8.7.16 Power Reduced Level 7&8&9 of LTE Band 2

FDD LTE Band 2									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18700	18900	19100		18700	18900	19100	
20 MHz	1 (RB_Pos:0)	19.15	19.00	19.08	20.00	19.53	19.42	19.30	20.00
	1 (RB_Pos:50)	18.89	19.13	19.00	20.00	19.38	19.24	19.35	20.00
	1 (RB_Pos:99)	18.90	19.25	18.86	20.00	19.29	19.58	19.32	20.00
	50 (RB_Pos:0)	19.28	19.39	19.32	20.00	19.37	19.16	19.32	20.00
	50 (RB_Pos:25)	19.08	19.20	18.92	20.00	19.20	19.11	19.20	20.00
	50 (RB_Pos:50)	19.39	19.36	19.23	20.00	19.55	19.46	19.07	20.00
	100 (RB_Pos:0)	18.91	19.08	19.33	20.00	19.34	19.47	19.41	20.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18675	18900	19125		18675	18900	19125	
15 MHz	1 (RB_Pos:0)	19.21	19.08	19.10	20.00	19.38	19.12	19.37	20.00
	1 (RB_Pos:38)	19.38	18.95	18.95	20.00	19.14	19.21	19.09	20.00
	1 (RB_Pos:74)	19.31	19.33	18.90	20.00	19.40	19.48	19.26	20.00
	36 (RB_Pos:0)	18.86	19.36	19.20	20.00	19.31	19.20	19.27	20.00
	36 (RB_Pos:20)	19.21	19.34	19.27	20.00	19.48	19.61	19.57	20.00
	36 (RB_Pos:39)	19.30	19.38	19.31	20.00	19.27	19.35	19.15	20.00
	75 (RB_Pos:0)	18.98	19.36	19.19	20.00	19.10	19.08	19.36	20.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18650	18900	19150		18650	18900	19150	
10 MHz	1 (RB_Pos:0)	19.35	18.90	18.91	20.00	19.61	19.19	19.17	20.00
	1 (RB_Pos:25)	19.38	18.86	19.11	20.00	19.07	19.27	19.20	20.00
	1 (RB_Pos:49)	19.38	19.30	18.93	20.00	19.36	19.29	19.35	20.00
	25 (RB_Pos:0)	18.96	18.98	18.97	20.00	19.26	19.34	19.07	20.00
	25 (RB_Pos:12)	19.28	19.39	19.33	20.00	19.52	19.35	19.53	20.00
	25 (RB_Pos:25)	19.18	18.86	18.94	20.00	19.11	19.23	19.42	20.00
	50 (RB_Pos:0)	19.23	19.37	19.26	20.00	19.40	19.36	19.46	20.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18625	18900	19175		18625	18900	19175	
5 MHz	1 (RB_Pos:0)	19.23	19.13	19.12	20.00	19.50	19.55	19.18	20.00

	1 (RB_Pos:13)	19.37	18.99	18.97	20.00	19.30	19.17	19.11	20.00
	1 (RB_Pos:24)	18.88	19.13	19.28	20.00	19.18	19.57	19.56	20.00
	12 (RB_Pos:0)	19.26	19.31	19.09	20.00	19.23	19.49	19.34	20.00
	12 (RB_Pos:6)	19.34	19.40	19.20	20.00	19.48	19.54	19.47	20.00
	12 (RB_Pos:13)	18.91	19.02	18.96	20.00	19.38	19.46	19.31	20.00
	25 (RB_Pos:0)	19.36	19.12	19.18	20.00	19.39	19.09	19.14	20.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18615	18900	19185		18615	18900	19185	
3.0 MHz	1 (RB_Pos:0)	19.37	18.96	18.97	20.00	19.21	19.41	19.28	20.00
	1 (RB_Pos:8)	19.11	18.94	19.20	20.00	19.44	19.16	19.38	20.00
	1 (RB_Pos:14)	19.13	19.00	19.29	20.00	19.30	19.31	19.19	20.00
	8 (RB_Pos:0)	18.96	19.08	19.28	20.00	19.38	19.12	19.18	20.00
	8 (RB_Pos:3)	19.05	19.03	19.01	20.00	19.37	19.09	19.24	20.00
	8 (RB_Pos:7)	19.35	19.09	18.87	20.00	19.17	19.19	19.31	20.00
	15 (RB_Pos:0)	18.86	19.34	19.18	20.00	19.11	19.49	19.31	20.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	18607	18900	19193		18607	18900	19193	
1.4 MHz	1 (RB_Pos:0)	19.27	19.20	19.01	20.00	19.50	19.33	19.44	20.00
	1 (RB_Pos:3)	19.23	19.09	19.19	20.00	19.55	19.17	19.56	20.00
	1 (RB_Pos:5)	18.97	19.19	19.39	20.00	19.43	19.12	19.31	20.00
	3 (RB_Pos:0)	19.39	19.02	19.04	20.00	19.50	19.49	19.11	20.00
	3 (RB_Pos:1)	19.27	19.04	19.12	20.00	19.08	19.24	19.41	20.00
	3 (RB_Pos:3)	18.88	18.90	18.99	20.00	19.18	19.33	19.21	20.00
	6 (RB_Pos:0)	19.25	19.23	19.31	20.00	19.35	19.36	19.49	20.00

8.7.17 Power Reduced Level 1&2&3 of LTE Band 4

FDD LTE Band 4									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20050	20175	20300		20050	20175	20300	
20 MHz	1 (RB_Pos:0)	13.92	14.21	13.91	15.00	14.17	14.32	14.30	15.00
	1 (RB_Pos:50)	14.03	14.14	14.19	15.00	14.11	14.11	14.09	15.00
	1 (RB_Pos:99)	14.14	14.19	14.13	15.00	14.26	14.40	14.34	15.00
	50 (RB_Pos:0)	14.00	14.16	14.04	15.00	14.16	14.36	14.25	15.00
	50 (RB_Pos:25)	14.15	14.26	14.01	15.00	14.16	14.08	14.13	15.00
	50 (RB_Pos:50)	14.14	14.13	14.15	15.00	14.35	14.10	14.29	15.00
	100 (RB_Pos:0)	14.06	14.16	14.01	15.00	14.06	14.05	14.11	15.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up	16QAM			Tune up

	Channel	20025	20175	20325	limit (dBm)	20025	20175	20325	limit (dBm)
15 MHz	1 (RB_Pos:0)	13.89	14.15	14.19	15.00	14.04	14.04	14.32	15.00
	1 (RB_Pos:38)	13.92	14.20	14.25	15.00	14.20	14.11	14.26	15.00
	1 (RB_Pos:74)	14.25	14.00	14.22	15.00	14.10	14.17	14.06	15.00
	36 (RB_Pos:0)	13.95	14.07	14.01	15.00	14.39	14.34	14.05	15.00
	36 (RB_Pos:20)	14.05	14.10	13.92	15.00	14.22	14.06	14.14	15.00
	36 (RB_Pos:39)	14.11	14.10	14.11	15.00	14.25	14.23	14.19	15.00
	75 (RB_Pos:0)	14.14	13.98	14.15	15.00	14.29	14.38	14.10	15.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20000	20175	20350		20000	20175	20350	
10 MHz	1 (RB_Pos:0)	13.93	14.14	14.23	15.00	14.16	14.39	14.21	15.00
	1 (RB_Pos:25)	14.15	14.27	14.16	15.00	14.27	14.05	14.13	15.00
	1 (RB_Pos:49)	14.15	14.20	14.09	15.00	14.33	14.22	14.21	15.00
	25 (RB_Pos:0)	14.18	13.94	13.90	15.00	14.13	14.30	14.23	15.00
	25 (RB_Pos:12)	14.10	14.24	14.18	15.00	14.24	14.22	14.39	15.00
	25 (RB_Pos:25)	14.18	14.18	14.14	15.00	14.37	14.20	14.25	15.00
	50 (RB_Pos:0)	13.90	14.09	14.17	15.00	14.28	14.35	14.22	15.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19975	20175	20375		19975	20175	20375	
5 MHz	1 (RB_Pos:0)	14.26	14.00	14.07	15.00	14.10	14.05	14.36	15.00
	1 (RB_Pos:13)	14.00	13.93	14.27	15.00	14.16	14.33	14.30	15.00
	1 (RB_Pos:24)	14.15	14.15	13.91	15.00	14.21	14.29	14.18	15.00
	12 (RB_Pos:0)	14.13	14.17	14.17	15.00	14.33	14.22	14.18	15.00
	12 (RB_Pos:6)	13.91	14.06	13.98	15.00	14.08	14.28	14.36	15.00
	12 (RB_Pos:13)	14.11	14.25	14.19	15.00	14.29	14.09	14.32	15.00
	25 (RB_Pos:0)	14.26	14.23	14.23	15.00	14.38	14.11	14.17	15.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19965	20175	20385		19965	20175	20385	
3.0 MHz	1 (RB_Pos:0)	14.07	13.98	14.04	15.00	14.24	14.07	14.12	15.00
	1 (RB_Pos:8)	14.25	13.97	14.23	15.00	14.19	14.29	14.18	15.00
	1 (RB_Pos:14)	13.95	14.09	14.15	15.00	14.17	14.04	14.10	15.00
	8 (RB_Pos:0)	14.07	14.09	14.23	15.00	14.30	14.28	14.39	15.00
	8 (RB_Pos:3)	14.14	14.20	14.20	15.00	14.36	14.32	14.30	15.00
	8 (RB_Pos:7)	14.26	13.96	14.05	15.00	14.15	14.17	14.10	15.00
	15 (RB_Pos:0)	13.97	14.07	14.20	15.00	14.36	14.23	14.34	15.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19957	20175	20393		19957	20175	20393	

					(dBm)				(dBm)
1.4 MHz	1 (RB_Pos:0)	14.10	14.23	13.92	15.00	14.39	14.04	14.19	15.00
	1 (RB_Pos:3)	13.97	13.93	14.05	15.00	14.37	14.25	14.05	15.00
	1 (RB_Pos:5)	13.98	13.89	14.10	15.00	14.36	14.28	14.24	15.00
	3 (RB_Pos:0)	14.18	14.05	14.19	15.00	14.24	14.07	14.24	15.00
	3 (RB_Pos:1)	13.90	14.25	14.11	15.00	14.05	14.32	14.28	15.00
	3 (RB_Pos:3)	14.04	14.09	14.04	15.00	14.34	14.10	14.07	15.00
	6 (RB_Pos:0)	14.21	13.90	13.98	15.00	14.11	14.11	14.23	15.00

8.7.18 Power Reduced Level 4&5&6 of LTE Band 4

FDD LTE Band 4									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20050	20175	20300		20050	20175	20300	
20 MHz	1 (RB_Pos:0)	19.09	19.27	19.16	20.00	19.11	19.41	19.10	20.00
	1 (RB_Pos:50)	18.97	19.23	19.07	20.00	19.25	19.13	19.06	20.00
	1 (RB_Pos:99)	19.21	18.97	19.17	20.00	19.35	19.17	19.34	20.00
	50 (RB_Pos:0)	19.12	19.13	18.91	20.00	19.39	19.21	19.16	20.00
	50 (RB_Pos:25)	19.07	19.21	19.19	20.00	19.38	19.30	19.29	20.00
	50 (RB_Pos:50)	19.02	19.01	19.03	20.00	19.23	19.26	19.13	20.00
	100 (RB_Pos:0)	18.91	18.95	18.92	20.00	19.08	19.26	19.10	20.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20025	20175	20325		20025	20175	20325	
15 MHz	1 (RB_Pos:0)	19.05	19.01	18.90	20.00	19.23	19.21	19.31	20.00
	1 (RB_Pos:38)	19.02	18.98	19.20	20.00	19.39	19.36	19.10	20.00
	1 (RB_Pos:74)	19.01	19.20	19.24	20.00	19.40	19.20	19.22	20.00
	36 (RB_Pos:0)	18.95	19.17	19.26	20.00	19.06	19.14	19.10	20.00
	36 (RB_Pos:20)	19.23	19.01	19.11	20.00	19.25	19.07	19.13	20.00
	36 (RB_Pos:39)	18.95	19.01	18.93	20.00	19.21	19.26	19.31	20.00
	75 (RB_Pos:0)	19.07	19.00	19.10	20.00	19.16	19.35	19.39	20.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20000	20175	20350		20000	20175	20350	
10 MHz	1 (RB_Pos:0)	19.08	19.06	18.97	20.00	19.32	19.32	19.37	20.00
	1 (RB_Pos:25)	19.20	18.91	19.07	20.00	19.06	19.11	19.26	20.00
	1 (RB_Pos:49)	19.06	19.15	18.90	20.00	19.39	19.30	19.38	20.00
	25 (RB_Pos:0)	19.18	19.07	19.19	20.00	19.12	19.33	19.16	20.00
	25 (RB_Pos:12)	19.13	19.09	19.05	20.00	19.09	19.28	19.21	20.00
	25 (RB_Pos:25)	18.98	19.26	19.10	20.00	19.16	19.11	19.38	20.00
	50 (RB_Pos:0)	18.97	19.15	18.97	20.00	19.13	19.40	19.04	20.00

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19975	20175	20375		19975	20175	20375	
5 MHz	1 (RB_Pos:0)	18.95	19.26	19.25	20.00	19.20	19.39	19.11	20.00
	1 (RB_Pos:13)	19.07	19.11	19.01	20.00	19.39	19.07	19.31	20.00
	1 (RB_Pos:24)	19.15	19.15	18.96	20.00	19.14	19.30	19.19	20.00
	12 (RB_Pos:0)	19.16	19.17	19.07	20.00	19.20	19.22	19.13	20.00
	12 (RB_Pos:6)	19.25	19.18	19.21	20.00	19.17	19.34	19.39	20.00
	12 (RB_Pos:13)	18.91	19.24	19.10	20.00	19.08	19.07	19.21	20.00
	25 (RB_Pos:0)	19.26	18.94	19.05	20.00	19.36	19.06	19.04	20.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19965	20175	20385		19965	20175	20385	
3.0 MHz	1 (RB_Pos:0)	19.26	19.27	18.91	20.00	19.20	19.27	19.07	20.00
	1 (RB_Pos:8)	18.99	18.91	18.92	20.00	19.05	19.09	19.36	20.00
	1 (RB_Pos:14)	19.05	19.13	19.10	20.00	19.26	19.39	19.24	20.00
	8 (RB_Pos:0)	19.02	19.10	19.14	20.00	19.06	19.17	19.38	20.00
	8 (RB_Pos:3)	19.04	19.12	18.91	20.00	19.22	19.23	19.11	20.00
	8 (RB_Pos:7)	19.11	18.92	18.94	20.00	19.19	19.10	19.06	20.00
	15 (RB_Pos:0)	19.21	19.16	19.14	20.00	19.18	19.19	19.15	20.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19957	20175	20393		19957	20175	20393	
1.4 MHz	1 (RB_Pos:0)	19.07	19.26	19.08	20.00	19.37	19.10	19.10	20.00
	1 (RB_Pos:3)	18.96	19.09	18.97	20.00	19.14	19.41	19.18	20.00
	1 (RB_Pos:5)	19.17	18.95	18.93	20.00	19.20	19.09	19.29	20.00
	3 (RB_Pos:0)	19.18	19.22	19.20	20.00	19.06	19.29	19.13	20.00
	3 (RB_Pos:1)	18.94	19.08	18.97	20.00	19.40	19.41	19.16	20.00
	3 (RB_Pos:3)	19.20	19.09	19.09	20.00	19.22	19.10	19.34	20.00
	6 (RB_Pos:0)	19.22	18.91	19.07	20.00	19.20	19.26	19.14	20.00

8.7.19 Power Reduced Level 7&8&9 of LTE Band 4

FDD LTE Band 4									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20050	20175	20300		20050	20175	20300	
20 MHz	1 (RB_Pos:0)	20.94	21.22	21.17	22.00	21.20	21.42	21.29	22.00
	1 (RB_Pos:50)	20.93	20.91	20.99	22.00	21.10	21.33	21.15	22.00
	1 (RB_Pos:99)	20.96	21.05	20.99	22.00	21.16	21.08	21.07	22.00
	50 (RB_Pos:0)	21.22	21.12	20.94	22.00	20.87	20.65	20.69	22.00

	50 (RB_Pos:25)	21.25	21.26	21.22	22.00	20.85	20.63	20.93	22.00
	50 (RB_Pos:50)	21.05	21.09	21.25	22.00	20.92	20.89	20.90	22.00
	100 (RB_Pos:0)	21.16	21.04	21.05	22.00	20.63	20.81	20.75	22.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20025	20175	20325		20025	20175	20325	
15 MHz	1 (RB_Pos:0)	21.08	21.16	21.20	22.00	21.26	21.12	21.26	22.00
	1 (RB_Pos:38)	21.10	21.08	21.11	22.00	21.07	21.23	21.41	22.00
	1 (RB_Pos:74)	21.04	21.00	20.90	22.00	21.12	21.41	21.16	22.00
	36 (RB_Pos:0)	21.02	21.21	21.08	22.00	20.86	20.60	20.95	22.00
	36 (RB_Pos:20)	21.24	21.24	21.15	22.00	20.69	20.63	20.63	22.00
	36 (RB_Pos:39)	21.20	20.94	21.00	22.00	20.62	20.84	20.88	22.00
	75 (RB_Pos:0)	20.95	21.20	21.10	22.00	20.66	20.60	20.91	22.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20000	20175	20350		20000	20175	20350	
10 MHz	1 (RB_Pos:0)	21.23	21.02	21.14	22.00	21.29	21.13	21.21	22.00
	1 (RB_Pos:25)	21.02	21.20	21.14	22.00	21.07	21.10	21.41	22.00
	1 (RB_Pos:49)	21.11	21.02	21.08	22.00	21.16	21.39	21.24	22.00
	25 (RB_Pos:0)	21.10	20.93	21.04	22.00	20.66	20.70	20.90	22.00
	25 (RB_Pos:12)	21.26	21.01	21.06	22.00	20.89	20.84	20.83	22.00
	25 (RB_Pos:25)	20.92	21.15	21.09	22.00	20.76	20.94	20.79	22.00
	50 (RB_Pos:0)	21.09	21.20	21.05	22.00	20.87	20.77	20.97	22.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19975	20175	20375		19975	20175	20375	
5 MHz	1 (RB_Pos:0)	20.99	20.98	20.91	22.00	21.18	21.23	21.13	22.00
	1 (RB_Pos:13)	21.25	21.17	21.07	22.00	21.09	21.04	21.06	22.00
	1 (RB_Pos:24)	20.90	21.25	21.19	22.00	21.25	21.29	21.35	22.00
	12 (RB_Pos:0)	21.04	21.21	21.16	22.00	20.94	20.67	20.79	22.00
	12 (RB_Pos:6)	21.05	20.90	21.00	22.00	20.69	20.59	20.83	22.00
	12 (RB_Pos:13)	21.03	21.05	21.17	22.00	20.79	20.70	20.92	22.00
	25 (RB_Pos:0)	21.01	20.90	21.00	22.00	20.85	20.86	20.79	22.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	19965	20175	20385		19965	20175	20385	
3.0 MHz	1 (RB_Pos:0)	21.02	21.20	21.04	22.00	21.13	21.27	21.29	22.00
	1 (RB_Pos:8)	21.16	21.08	21.24	22.00	21.19	21.05	21.30	22.00
	1 (RB_Pos:14)	20.93	21.10	21.25	22.00	21.31	21.18	21.04	22.00
	8 (RB_Pos:0)	21.08	20.93	21.05	22.00	20.71	20.60	20.72	22.00
	8 (RB_Pos:3)	21.00	21.00	20.98	22.00	20.76	20.92	20.69	22.00

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
Channel	19957	20175	20393	19957		20175	20393		
	8 (RB_Pos:7)	21.04	21.01	20.90	22.00	20.88	20.88	20.77	22.00
	15 (RB_Pos:0)	21.18	21.26	20.90	22.00	20.96	20.87	20.79	22.00
1.4 MHz	1 (RB_Pos:0)	21.09	21.09	20.96	22.00	21.06	21.26	21.29	22.00
	1 (RB_Pos:3)	21.09	21.01	21.27	22.00	21.32	21.36	21.40	22.00
	1 (RB_Pos:5)	21.15	21.07	20.97	22.00	21.12	21.41	21.10	22.00
	3 (RB_Pos:0)	20.94	21.04	21.05	22.00	21.12	21.28	21.40	22.00
	3 (RB_Pos:1)	21.02	20.95	20.93	22.00	21.32	21.37	21.09	22.00
	3 (RB_Pos:3)	21.02	21.01	21.27	22.00	21.28	21.39	21.15	22.00
	6 (RB_Pos:0)	21.08	20.97	21.20	22.00	20.85	20.73	20.64	22.00

8.7.20 Power Reduced Level 1&2&3 of LTE Band 5

FDD LTE Band 5									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
Channel	20450	20525	20600	20450		20525	20600		
10 MHz	1 (RB_Pos:0)	20.08	19.93	19.83	21.00	19.93	20.08	20.23	21.00
	1 (RB_Pos:25)	20.02	19.99	20.04	21.00	19.92	19.97	19.92	21.00
	1 (RB_Pos:49)	20.13	20.12	19.99	21.00	20.26	19.99	20.07	21.00
	25 (RB_Pos:0)	20.04	19.82	20.07	21.00	20.11	20.21	19.91	21.00
	25 (RB_Pos:12)	19.94	20.10	20.05	21.00	20.15	19.95	20.02	21.00
	25 (RB_Pos:25)	20.17	19.96	19.89	21.00	20.20	20.10	19.98	21.00
	50 (RB_Pos:0)	20.14	20.04	19.87	21.00	20.26	20.21	19.93	21.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
Channel	20425	20525	20625	20425		20525	20625		
5MHz	1 (RB_Pos:0)	19.87	19.82	20.12	21.00	20.17	20.05	20.05	21.00
	1 (RB_Pos:13)	20.04	19.91	19.91	21.00	20.22	20.14	20.25	21.00
	1 (RB_Pos:24)	19.97	19.89	20.05	21.00	20.07	20.01	19.94	21.00
	12 (RB_Pos:0)	20.08	19.84	19.83	21.00	20.05	20.22	19.97	21.00
	12 (RB_Pos:6)	19.81	19.86	20.10	21.00	19.99	20.18	20.00	21.00
	12 (RB_Pos:13)	20.08	19.89	19.81	21.00	20.00	20.11	19.91	21.00
	25 (RB_Pos:0)	19.81	20.08	20.10	21.00	20.00	20.15	19.92	21.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
Channel	20415	20525	20635	20415		20525	20635		
3.0 MHz	1 (RB_Pos:0)	19.91	19.88	20.07	21.00	20.12	20.23	20.04	21.00
	1 (RB_Pos:8)	20.11	20.07	19.91	21.00	20.09	20.01	20.22	21.00

	1 (RB_Pos:14)	20.03	20.01	19.95	21.00	20.00	20.02	19.94	21.00
	8 (RB_Pos:0)	20.16	20.09	20.05	21.00	20.12	20.25	20.02	21.00
	8 (RB_Pos:3)	19.79	20.05	20.12	21.00	20.18	20.14	20.04	21.00
	8 (RB_Pos:7)	20.12	19.79	19.98	21.00	19.95	20.18	20.19	21.00
	15 (RB_Pos:0)	19.86	20.01	19.86	21.00	20.18	20.20	20.23	21.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20407	20525	20643		20407	20525	20643	
1.4MHz	1 (RB_Pos:0)	19.88	19.97	19.88	21.00	20.08	20.21	19.99	21.00
	1 (RB_Pos:3)	19.92	20.12	20.09	21.00	20.20	19.96	20.02	21.00
	1 (RB_Pos:5)	19.97	20.14	20.14	21.00	20.01	20.07	20.11	21.00
	3 (RB_Pos:0)	20.09	20.10	19.92	21.00	19.98	20.03	20.05	21.00
	3 (RB_Pos:1)	19.91	19.97	20.04	21.00	20.24	19.94	20.23	21.00
	3 (RB_Pos:3)	20.14	20.16	19.87	21.00	20.13	20.24	20.21	21.00
	6 (RB_Pos:0)	20.02	19.91	20.01	21.00	20.17	20.11	19.94	21.00

8.7.21 Power Reduced Level 7&8&9 of LTE Band 5

FDD LTE Band 5									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20450	20525	20600		20450	20525	20600	
10 MHz	1 (RB_Pos:0)	22.04	22.26	22.02	23.00	22.13	22.13	21.98	23.00
	1 (RB_Pos:25)	22.01	22.21	21.95	23.00	21.95	22.19	22.24	23.00
	1 (RB_Pos:49)	22.26	22.17	22.16	23.00	22.14	22.20	22.26	23.00
	25 (RB_Pos:0)	22.06	22.13	22.15	23.00	22.31	22.21	22.10	23.00
	25 (RB_Pos:12)	22.21	22.11	22.00	23.00	22.20	22.06	22.08	23.00
	25 (RB_Pos:25)	22.20	21.98	22.25	23.00	22.01	22.00	22.19	23.00
	50 (RB_Pos:0)	22.17	22.12	22.22	23.00	22.24	22.05	22.22	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20425	20525	20625		20425	20525	20625	
5MHz	1 (RB_Pos:0)	22.00	21.97	22.29	23.00	22.11	22.19	22.22	23.00
	1 (RB_Pos:13)	22.23	22.02	22.25	23.00	22.03	21.99	22.13	23.00
	1 (RB_Pos:24)	22.03	21.98	22.05	23.00	22.04	22.25	22.13	23.00
	12 (RB_Pos:0)	22.27	21.96	22.19	23.00	21.98	22.14	22.22	23.00
	12 (RB_Pos:6)	22.25	22.09	22.07	23.00	22.00	21.99	22.03	23.00
	12 (RB_Pos:13)	21.99	22.19	22.28	23.00	22.22	22.09	21.97	23.00
	25 (RB_Pos:0)	22.10	22.23	22.02	23.00	22.09	22.18	22.15	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20415	20525	20635		20415	20525	20635	

					(dBm)				(dBm)
3.0 MHz	1 (RB_Pos:0)	22.11	22.11	22.19	23.00	22.29	22.12	22.04	23.00
	1 (RB_Pos:8)	22.10	22.08	22.29	23.00	22.11	22.11	22.10	23.00
	1 (RB_Pos:14)	22.19	22.22	22.15	23.00	22.00	22.18	22.03	23.00
	8 (RB_Pos:0)	21.99	22.07	22.22	23.00	22.18	22.01	22.09	23.00
	8 (RB_Pos:3)	22.26	22.30	22.00	23.00	22.01	22.13	22.14	23.00
	8 (RB_Pos:7)	22.23	22.07	22.09	23.00	22.22	22.10	22.16	23.00
	15 (RB_Pos:0)	22.24	22.12	22.17	23.00	22.26	22.03	22.11	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20407	20525	20643		20407	20525	20643	
1.4MHz	1 (RB_Pos:0)	22.29	22.26	22.14	23.00	22.14	21.96	22.00	23.00
	1 (RB_Pos:3)	22.19	22.24	22.04	23.00	22.07	22.12	22.27	23.00
	1 (RB_Pos:5)	22.05	22.20	22.19	23.00	22.29	22.25	22.01	23.00
	3 (RB_Pos:0)	22.20	21.99	22.25	23.00	22.19	22.10	22.08	23.00
	3 (RB_Pos:1)	22.03	22.07	22.22	23.00	22.01	22.16	22.10	23.00
	3 (RB_Pos:3)	22.07	22.07	22.30	23.00	22.22	21.99	22.08	23.00
	6 (RB_Pos:0)	22.18	21.97	22.08	23.00	22.01	22.05	22.06	23.00

8.7.22 Power Reduced Level 1&2&3 of LTE Band 7

FDD LTE Band 7									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20850	21100	21350		20850	21100	21350	
20MHz	1 (RB_Pos:0)	14.40	14.38	14.18	15.00	14.29	14.28	14.25	15.00
	1 (RB_Pos:50)	14.27	14.40	14.34	15.00	14.16	14.51	14.47	15.00
	1 (RB_Pos:99)	14.10	14.12	14.19	15.00	14.40	14.39	14.25	15.00
	50 (RB_Pos:0)	14.06	14.17	14.30	15.00	14.52	14.31	14.33	15.00
	50 (RB_Pos:25)	14.23	14.42	14.38	15.00	14.39	14.22	14.19	15.00
	50 (RB_Pos:50)	14.16	14.27	14.35	15.00	14.18	14.46	14.48	15.00
	100 (RB_Pos:0)	14.12	14.32	14.35	15.00	14.31	14.32	14.28	15.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20825	21100	21375		20825	21100	21375	
15MHz	1 (RB_Pos:0)	14.28	14.29	14.16	15.00	14.27	14.50	14.19	15.00
	1 (RB_Pos:38)	14.04	14.37	14.19	15.00	14.34	14.21	14.37	15.00
	1 (RB_Pos:74)	14.41	14.12	14.04	15.00	14.17	14.19	14.44	15.00
	36 (RB_Pos:0)	14.15	14.19	14.08	15.00	14.28	14.45	14.35	15.00
	36 (RB_Pos:20)	14.29	14.38	14.09	15.00	14.43	14.34	14.37	15.00
	36 (RB_Pos:39)	14.11	14.22	14.25	15.00	14.37	14.35	14.50	15.00
	75 (RB_Pos:0)	14.07	14.04	14.12	15.00	14.47	14.47	14.43	15.00

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20800	21100	21400		20800	21100	21400	
10MHz	1 (RB_Pos:0)	14.12	14.42	14.29	15.00	14.22	14.19	14.25	15.00
	1 (RB_Pos:25)	14.16	14.10	14.27	15.00	14.30	14.34	14.46	15.00
	1 (RB_Pos:49)	14.39	14.24	14.38	15.00	14.43	14.46	14.44	15.00
	25 (RB_Pos:0)	14.28	14.26	14.37	15.00	14.41	14.25	14.40	15.00
	25 (RB_Pos:12)	14.25	14.29	14.19	15.00	14.21	14.31	14.31	15.00
	25 (RB_Pos:25)	14.07	14.33	14.26	15.00	14.28	14.50	14.38	15.00
	50 (RB_Pos:0)	14.11	14.07	14.09	15.00	14.48	14.46	14.18	15.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20775	21100	21425		20775	21100	21425	
5MHz	1 (RB_Pos:0)	14.05	14.06	14.39	15.00	14.25	14.17	14.15	15.00
	1 (RB_Pos:13)	14.39	14.34	14.37	15.00	14.48	14.42	14.16	15.00
	1 (RB_Pos:24)	14.26	14.37	14.27	15.00	14.32	14.33	14.50	15.00
	12 (RB_Pos:0)	14.07	14.31	14.24	15.00	14.25	14.45	14.25	15.00
	12 (RB_Pos:6)	14.42	14.27	14.37	15.00	14.16	14.45	14.46	15.00
	12 (RB_Pos:13)	14.41	14.11	14.33	15.00	14.14	14.40	14.17	15.00
	25 (RB_Pos:0)	14.40	14.10	14.16	15.00	14.20	14.38	14.44	15.00

8.7.23 Power Reduced Level 4&5&6 of LTE Band 7

FDD LTE Band 7									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20850	21100	21350		20850	21100	21350	
20MHz	1 (RB_Pos:0)	17.33	17.05	17.35	18.00	17.51	17.30	17.20	18.00
	1 (RB_Pos:50)	17.28	17.38	17.37	18.00	17.32	17.55	17.24	18.00
	1 (RB_Pos:99)	17.28	17.32	17.28	18.00	17.22	17.35	17.39	18.00
	50 (RB_Pos:0)	17.11	17.09	17.22	18.00	17.54	17.42	17.51	18.00
	50 (RB_Pos:25)	17.22	17.35	17.27	18.00	17.35	17.37	17.33	18.00
	50 (RB_Pos:50)	17.16	17.34	17.25	18.00	17.54	17.50	17.44	18.00
	100 (RB_Pos:0)	17.33	17.23	17.29	18.00	17.22	17.20	17.45	18.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20825	21100	21375		20825	21100	21375	
15MHz	1 (RB_Pos:0)	17.07	17.39	17.36	18.00	17.32	17.54	17.35	18.00
	1 (RB_Pos:38)	17.36	17.34	17.15	18.00	17.42	17.42	17.42	18.00
	1 (RB_Pos:74)	17.27	17.20	17.32	18.00	17.32	17.20	17.19	18.00
	36 (RB_Pos:0)	17.10	17.23	17.08	18.00	17.41	17.50	17.52	18.00

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	20800	21100		21400	20800	21100	
	36 (RB_Pos:20)	17.16	17.20	17.10	18.00	17.50	17.29	17.17	18.00
	36 (RB_Pos:39)	17.18	17.11	17.02	18.00	17.36	17.51	17.50	18.00
	75 (RB_Pos:0)	17.09	17.30	17.33	18.00	17.34	17.41	17.40	18.00
10MHz	1 (RB_Pos:0)	17.13	17.19	17.31	18.00	17.42	17.53	17.25	18.00
	1 (RB_Pos:25)	17.15	17.37	17.22	18.00	17.54	17.18	17.25	18.00
	1 (RB_Pos:49)	17.18	17.36	17.13	18.00	17.49	17.32	17.53	18.00
	25 (RB_Pos:0)	17.26	17.21	17.16	18.00	17.51	17.48	17.41	18.00
	25 (RB_Pos:12)	17.22	17.37	17.25	18.00	17.17	17.40	17.40	18.00
	25 (RB_Pos:25)	17.08	17.11	17.25	18.00	17.44	17.46	17.19	18.00
	50 (RB_Pos:0)	17.10	17.37	17.16	18.00	17.51	17.30	17.45	18.00
5MHz	1 (RB_Pos:0)	17.12	17.36	17.35	18.00	17.52	17.52	17.47	18.00
	1 (RB_Pos:13)	17.25	17.33	17.06	18.00	17.36	17.26	17.30	18.00
	1 (RB_Pos:24)	17.12	17.20	17.09	18.00	17.42	17.47	17.34	18.00
	12 (RB_Pos:0)	17.34	17.27	17.38	18.00	17.53	17.44	17.36	18.00
	12 (RB_Pos:6)	17.03	17.12	17.26	18.00	17.27	17.35	17.24	18.00
	12 (RB_Pos:13)	17.16	17.06	17.27	18.00	17.25	17.46	17.41	18.00
	25 (RB_Pos:0)	17.27	17.07	17.18	18.00	17.21	17.54	17.53	18.00

8.7.24 Power Reduced Level 7&8&9 of LTE Band 7

FDD LTE Band 7									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	20850	21100		21350	20850	21100	
20MHz	1 (RB_Pos:0)	21.09	21.24	21.20	22.00	21.30	21.16	21.21	22.00
	1 (RB_Pos:50)	21.32	21.33	21.03	22.00	21.24	21.38	21.18	22.00
	1 (RB_Pos:99)	21.29	21.28	21.22	22.00	21.53	21.36	21.47	22.00
	50 (RB_Pos:0)	21.07	21.05	21.14	22.00	21.52	21.20	21.17	22.00
	50 (RB_Pos:25)	21.12	21.38	21.36	22.00	21.22	21.52	21.38	22.00
	50 (RB_Pos:50)	21.31	21.18	21.24	22.00	21.17	21.42	21.44	22.00
	100 (RB_Pos:0)	21.05	21.34	21.33	22.00	21.38	21.18	21.31	22.00
15MHz	1 (RB_Pos:0)	21.19	21.35	21.04	22.00	21.28	21.52	21.19	22.00

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	20800	21100	21400		20800	21100	21400	
10MHz	1 (RB_Pos:38)	21.01	21.23	21.23	22.00	21.39	21.34	21.34	22.00
	1 (RB_Pos:74)	21.21	21.14	21.25	22.00	21.38	21.27	21.46	22.00
	36 (RB_Pos:0)	21.23	21.28	21.15	22.00	21.27	21.48	21.19	22.00
	36 (RB_Pos:20)	21.34	21.25	21.25	22.00	21.50	21.48	21.51	22.00
	36 (RB_Pos:39)	21.19	21.13	21.20	22.00	21.31	21.39	21.19	22.00
	75 (RB_Pos:0)	21.28	21.24	21.20	22.00	21.22	21.39	21.26	22.00
5MHz	1 (RB_Pos:0)	21.17	21.17	21.35	22.00	21.36	21.37	21.21	22.00
	1 (RB_Pos:25)	21.35	21.14	21.30	22.00	21.20	21.35	21.47	22.00
	1 (RB_Pos:49)	21.11	21.03	21.21	22.00	21.35	21.50	21.48	22.00
	25 (RB_Pos:0)	21.18	21.35	21.28	22.00	21.36	21.22	21.43	22.00
	25 (RB_Pos:12)	21.37	21.32	21.17	22.00	21.51	21.39	21.50	22.00
	25 (RB_Pos:25)	21.31	21.20	21.35	22.00	21.21	21.41	21.35	22.00
	50 (RB_Pos:0)	21.27	21.18	21.37	22.00	21.50	21.26	21.31	22.00

8.7.25 Power Reduced Level 1&2&3 of LTE Band 12

FDD LTE Band 12									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23060	23095	23130		23060	23095	23130	
10MHz	1 (RB_Pos:0)	20.09	20.04	20.01	21.00	20.03	20.14	20.16	21.00
	1 (RB_Pos:50)	20.04	20.14	20.14	21.00	20.11	20.14	20.15	21.00
	1 (RB_Pos:99)	20.16	20.08	20.10	21.00	19.94	20.12	20.09	21.00
	50 (RB_Pos:0)	20.01	19.81	20.05	21.00	20.25	19.95	20.31	21.00
	50 (RB_Pos:25)	20.15	19.87	19.94	21.00	20.23	20.08	20.09	21.00
	50 (RB_Pos:50)	20.02	20.03	19.97	21.00	20.05	20.05	20.12	21.00
	100 (RB_Pos:0)	19.92	19.95	20.15	21.00	20.20	19.98	20.03	21.00

	Channel	23035	23095	23155	limit (dBm)	23035	23095	23155	limit (dBm)
5MHz	1 (RB_Pos:0)	19.96	19.85	20.17	21.00	19.98	20.11	20.00	21.00
	1 (RB_Pos:38)	19.82	19.82	19.95	21.00	20.22	20.20	20.06	21.00
	1 (RB_Pos:74)	20.10	20.02	20.01	21.00	20.17	20.07	20.30	21.00
	36 (RB_Pos:0)	20.04	19.95	19.92	21.00	20.26	20.00	20.21	21.00
	36 (RB_Pos:20)	19.84	20.13	20.16	21.00	20.28	20.05	20.23	21.00
	36 (RB_Pos:39)	19.83	19.97	20.13	21.00	20.02	20.13	20.30	21.00
	75 (RB_Pos:0)	19.81	19.92	20.02	21.00	20.07	20.31	20.04	21.00
Bandwidth (MHz)	RB Set	Power (dBm)							
	Channel	QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		23025	23095	23165		23025	23095	23165	
3MHz	1 (RB_Pos:0)	20.16	20.17	20.10	21.00	20.19	19.95	20.14	21.00
	1 (RB_Pos:25)	20.07	19.97	19.96	21.00	20.00	20.04	20.20	21.00
	1 (RB_Pos:49)	19.89	20.08	20.03	21.00	20.31	20.31	20.27	21.00
	25 (RB_Pos:0)	20.08	19.83	20.11	21.00	20.10	20.13	19.98	21.00
	25 (RB_Pos:12)	20.01	19.98	20.07	21.00	20.15	19.94	20.04	21.00
	25 (RB_Pos:25)	19.82	19.86	19.94	21.00	20.02	20.26	19.99	21.00
	50 (RB_Pos:0)	20.00	20.04	19.79	21.00	20.08	20.01	19.98	21.00
Bandwidth (MHz)	RB Set	Power (dBm)							
	Channel	QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		23017	23095	23173		23017	23095	23173	
1.4MHz	1 (RB_Pos:0)	20.03	19.85	19.95	21.00	20.23	19.99	20.09	21.00
	1 (RB_Pos:13)	20.03	19.97	20.05	21.00	20.30	20.26	20.01	21.00
	1 (RB_Pos:24)	19.82	19.97	19.94	21.00	20.27	19.98	20.09	21.00
	12 (RB_Pos:0)	20.15	19.87	19.80	21.00	20.12	20.01	20.24	21.00
	12 (RB_Pos:6)	19.86	20.03	20.11	21.00	20.08	19.98	20.14	21.00
	12 (RB_Pos:13)	19.82	19.99	19.89	21.00	20.13	20.24	19.99	21.00
	25 (RB_Pos:0)	19.83	19.92	20.11	21.00	20.21	20.23	20.03	21.00

8.7.26 Power Reduced Level 7&8&9 of LTE Band 12

FDD LTE Band 12									
Bandwidth (MHz)	RB Set	Power (dBm)							
	Channel	QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		23060	23095	23130		23060	23095	23130	
10MHz	1 (RB_Pos:0)	22.01	21.99	21.96	23.00	22.07	22.03	22.08	23.00
	1 (RB_Pos:50)	22.16	22.18	22.00	23.00	21.99	22.12	22.28	23.00
	1 (RB_Pos:99)	22.23	22.10	21.98	23.00	22.24	22.15	22.28	23.00
	50 (RB_Pos:0)	22.15	22.15	22.15	23.00	22.09	22.02	22.24	23.00
	50 (RB_Pos:25)	22.27	22.20	22.21	23.00	22.22	21.98	22.30	23.00
	50 (RB_Pos:50)	22.20	21.99	22.18	23.00	22.03	21.99	22.26	23.00

	100 (RB_Pos:0)	22.10	22.15	22.05	23.00	22.13	22.12	21.98	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23035	23095	23155		23035	23095	23155	
5MHz	1 (RB_Pos:0)	22.12	22.05	22.27	23.00	21.98	22.16	22.10	23.00
	1 (RB_Pos:38)	22.05	22.25	22.23	23.00	22.18	22.01	22.08	23.00
	1 (RB_Pos:74)	22.10	22.29	22.25	23.00	21.99	22.28	22.01	23.00
	36 (RB_Pos:0)	22.02	22.24	22.16	23.00	22.24	22.12	22.12	23.00
	36 (RB_Pos:20)	21.95	22.10	22.20	23.00	22.16	22.04	22.27	23.00
	36 (RB_Pos:39)	21.96	22.00	22.25	23.00	22.13	22.09	22.01	23.00
	75 (RB_Pos:0)	21.95	22.16	22.19	23.00	22.03	22.04	22.15	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23025	23095	23165		23025	23095	23165	
3MHz	1 (RB_Pos:0)	22.05	22.13	22.22	23.00	22.00	22.30	22.22	23.00
	1 (RB_Pos:25)	22.10	22.22	22.26	23.00	22.11	22.11	22.10	23.00
	1 (RB_Pos:49)	22.21	22.20	22.02	23.00	22.18	22.11	22.05	23.00
	25 (RB_Pos:0)	21.99	22.29	22.15	23.00	22.07	22.16	22.20	23.00
	25 (RB_Pos:12)	22.19	22.26	22.07	23.00	21.96	21.97	21.96	23.00
	25 (RB_Pos:25)	22.10	22.13	22.15	23.00	22.29	22.26	22.22	23.00
	50 (RB_Pos:0)	22.12	22.29	22.30	23.00	22.24	22.15	22.13	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23017	23095	23173		23017	23095	23173	
1.4MHz	1 (RB_Pos:0)	22.13	22.03	22.23	23.00	22.08	22.06	22.10	23.00
	1 (RB_Pos:13)	22.18	22.20	22.06	23.00	21.99	21.96	22.06	23.00
	1 (RB_Pos:24)	22.18	22.27	21.96	23.00	22.19	22.14	22.07	23.00
	12 (RB_Pos:0)	22.06	21.99	22.15	23.00	21.95	22.26	22.17	23.00
	12 (RB_Pos:6)	22.29	22.21	22.15	23.00	22.13	22.07	22.28	23.00
	12 (RB_Pos:13)	22.09	22.30	22.06	23.00	22.14	22.11	22.15	23.00
	25 (RB_Pos:0)	22.09	22.20	22.08	23.00	22.26	22.07	21.97	23.00

8.7.27 Power Reduced Level 1&2&3 of LTE Band 17

FDD LTE Band 17									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23780	23790	23800		23780	23790	23800	
10MHz	1 (RB_Pos:0)	19.92	19.86	19.98	21.00	20.15	20.10	20.01	21.00
	1 (RB_Pos:50)	19.95	20.18	19.82	21.00	19.99	20.15	20.16	21.00
	1 (RB_Pos:99)	19.93	20.10	20.00	21.00	19.96	20.01	19.97	21.00
	50 (RB_Pos:0)	19.85	19.83	20.05	21.00	20.22	20.27	20.05	21.00
	50 (RB_Pos:25)	19.83	20.10	19.85	21.00	19.95	20.16	19.93	21.00
	50 (RB_Pos:50)	20.06	19.90	19.96	21.00	20.16	19.99	20.00	21.00
	100 (RB_Pos:0)	20.06	20.10	19.89	21.00	20.14	20.15	20.16	21.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23755	23790	23825		23755	23790	23825	
5MHz	1 (RB_Pos:0)	19.88	19.97	19.96	21.00	20.09	20.00	20.28	21.00
	1 (RB_Pos:38)	20.02	20.20	19.92	21.00	20.08	19.98	20.21	21.00
	1 (RB_Pos:74)	19.99	19.88	19.93	21.00	20.07	20.20	20.10	21.00
	36 (RB_Pos:0)	19.88	20.03	20.08	21.00	20.20	20.06	20.01	21.00
	36 (RB_Pos:20)	19.98	19.96	19.85	21.00	20.07	20.19	20.07	21.00
	36 (RB_Pos:39)	20.00	19.90	20.18	21.00	20.11	19.95	20.07	21.00
	75 (RB_Pos:0)	20.19	19.83	20.12	21.00	20.11	20.27	20.14	21.00

8.7.28 Power Reduced Level 7&8&9 of LTE Band 17

FDD LTE Band 17									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23780	23790	23800		23780	23790	23800	
10MHz	1 (RB_Pos:0)	21.98	22.22	22.07	23.00	21.96	22.27	22.26	23.00
	1 (RB_Pos:50)	22.18	22.06	21.99	23.00	22.29	22.07	22.21	23.00
	1 (RB_Pos:99)	22.15	22.07	22.04	23.00	22.13	22.05	22.22	23.00
	50 (RB_Pos:0)	22.21	21.99	22.21	23.00	22.08	22.14	22.23	23.00
	50 (RB_Pos:25)	22.26	22.07	22.10	23.00	22.10	22.15	22.10	23.00
	50 (RB_Pos:50)	22.06	21.97	22.14	23.00	22.21	22.15	22.23	23.00
	100 (RB_Pos:0)	22.09	22.24	22.13	23.00	22.17	21.98	21.98	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	23755	23790	23825		23755	23790	23825	
5MHz	1 (RB_Pos:0)	22.18	22.30	22.09	23.00	22.06	22.17	22.11	23.00
	1 (RB_Pos:38)	22.01	22.14	22.05	23.00	22.23	22.08	22.21	23.00

	1 (RB_Pos:74)	22.26	22.13	22.21	23.00	22.27	22.26	21.95	23.00
	36 (RB_Pos:0)	22.27	22.13	22.23	23.00	22.19	22.14	22.25	23.00
	36 (RB_Pos:20)	21.98	22.12	22.05	23.00	22.14	22.20	22.26	23.00
	36 (RB_Pos:39)	22.11	22.06	22.00	23.00	22.15	21.98	22.03	23.00
	75 (RB_Pos:0)	22.14	22.06	22.14	23.00	22.21	22.23	21.98	23.00

8.7.29 Power Reduced Level 1&2&3 of LTE Band 26

TDD LTE Band 26									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26765	26865	26965		26765	26865	26965	
15MHz	1 (RB_Pos:0)	19.72	19.91	19.97	21.00	20.16	20.04	20.13	21.00
	1 (RB_Pos:50)	19.73	19.86	19.71	21.00	20.03	20.04	20.11	21.00
	1 (RB_Pos:99)	19.77	19.76	19.90	21.00	19.79	20.14	20.16	21.00
	50 (RB_Pos:0)	19.88	19.75	19.99	21.00	20.03	20.17	19.91	21.00
	50 (RB_Pos:25)	19.98	19.84	19.87	21.00	19.82	19.92	19.93	21.00
	50 (RB_Pos:50)	19.77	19.80	19.78	21.00	19.95	19.89	19.88	21.00
	100 (RB_Pos:0)	19.81	20.01	19.76	21.00	20.08	20.09	19.89	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	
10MHz	1 (RB_Pos:0)	19.92	19.72	19.85	21.00	19.92	19.97	20.10	21.00
	1 (RB_Pos:38)	20.01	19.77	19.64	21.00	19.97	19.95	20.10	21.00
	1 (RB_Pos:74)	19.84	19.98	19.74	21.00	19.81	20.16	19.87	21.00
	36 (RB_Pos:0)	19.94	19.80	19.76	21.00	19.85	20.03	20.06	21.00
	36 (RB_Pos:20)	19.94	19.73	19.68	21.00	20.09	20.03	19.90	21.00
	36 (RB_Pos:39)	19.95	20.00	20.01	21.00	20.08	19.99	19.82	21.00
	75 (RB_Pos:0)	19.84	19.87	19.64	21.00	20.13	19.95	20.12	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	
5MHz	1 (RB_Pos:0)	20.02	19.72	19.92	21.00	20.01	19.93	19.88	21.00
	1 (RB_Pos:25)	19.78	19.95	19.69	21.00	20.14	19.88	20.15	21.00
	1 (RB_Pos:49)	19.98	19.81	19.75	21.00	19.87	19.87	20.04	21.00
	25 (RB_Pos:0)	19.81	19.81	19.96	21.00	19.82	19.90	19.83	21.00
	25 (RB_Pos:12)	19.81	19.92	19.96	21.00	19.98	20.00	19.95	21.00
	25 (RB_Pos:25)	19.79	19.98	19.95	21.00	19.85	19.94	19.80	21.00
	50 (RB_Pos:0)	19.95	19.85	19.76	21.00	20.07	19.82	20.05	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	

					(dBm)				(dBm)
3MHz	1 (RB_Pos:0)	19.72	19.75	19.95	21.00	19.80	19.96	20.05	21.00
	1 (RB_Pos:13)	19.66	19.66	20.01	21.00	20.09	20.01	20.13	21.00
	1 (RB_Pos:24)	19.76	19.99	19.65	21.00	19.92	19.90	19.86	21.00
	12 (RB_Pos:0)	19.82	19.81	19.99	21.00	20.01	19.92	20.00	21.00
	12 (RB_Pos:6)	19.75	19.98	19.69	21.00	20.13	19.86	20.00	21.00
	12 (RB_Pos:13)	19.98	19.95	19.69	21.00	19.91	19.80	19.90	21.00
	25 (RB_Pos:0)	19.74	19.73	19.78	21.00	19.98	20.03	19.83	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	
1.4MHz	1 (RB_Pos:0)	19.81	19.68	19.95	21.00	20.15	20.14	19.90	21.00
	1 (RB_Pos:13)	19.81	19.71	20.01	21.00	20.11	19.91	19.97	21.00
	1 (RB_Pos:24)	19.79	19.87	19.97	21.00	19.90	19.86	20.11	21.00
	12 (RB_Pos:0)	19.87	19.69	19.92	21.00	19.98	19.86	20.00	21.00
	12 (RB_Pos:6)	19.76	19.68	19.74	21.00	19.92	20.07	19.90	21.00
	12 (RB_Pos:13)	19.75	19.96	19.99	21.00	20.08	19.82	19.86	21.00
	25 (RB_Pos:0)	19.81	19.71	19.88	21.00	19.88	20.06	20.00	21.00

8.7.30 Power Reduced Level 7&8&9 of LTE Band 26

TDD LTE Band 26									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26765	26865	26965		26765	26865	26965	
15MHz	1 (RB_Pos:0)	22.05	22.16	22.28	23.00	22.06	22.05	22.03	23.00
	1 (RB_Pos:50)	22.21	22.21	22.07	23.00	22.10	22.15	22.12	23.00
	1 (RB_Pos:99)	22.05	22.13	22.23	23.00	22.04	22.26	22.28	23.00
	50 (RB_Pos:0)	21.97	22.15	22.30	23.00	22.02	21.96	22.16	23.00
	50 (RB_Pos:25)	22.26	22.19	22.17	23.00	22.27	22.25	22.22	23.00
	50 (RB_Pos:50)	22.18	22.02	22.18	23.00	22.00	22.21	22.05	23.00
	100 (RB_Pos:0)	22.10	22.01	22.01	23.00	22.17	22.19	22.22	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26740	26865	26990		26740	26865	26990	
10MHz	1 (RB_Pos:0)	22.22	22.07	22.30	23.00	22.05	22.17	22.03	23.00
	1 (RB_Pos:38)	22.28	22.07	22.08	23.00	22.15	22.29	22.26	23.00
	1 (RB_Pos:74)	22.14	21.96	22.16	23.00	22.05	22.09	22.26	23.00
	36 (RB_Pos:0)	22.25	22.05	22.25	23.00	22.21	22.02	22.11	23.00
	36 (RB_Pos:20)	22.17	22.11	21.95	23.00	22.24	22.25	22.28	23.00
	36 (RB_Pos:39)	21.96	22.26	21.98	23.00	22.29	22.15	22.04	23.00
	75 (RB_Pos:0)	22.23	22.21	22.12	23.00	22.14	22.19	22.28	23.00

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26715	26865	27015		26715	26865	27015	
5MHz	1 (RB_Pos:0)	22.29	22.20	22.25	23.00	22.09	21.98	22.02	23.00
	1 (RB_Pos:25)	22.25	21.99	22.16	23.00	22.14	22.09	22.24	23.00
	1 (RB_Pos:49)	22.18	21.97	21.98	23.00	22.11	22.07	21.96	23.00
	25 (RB_Pos:0)	22.22	21.96	22.10	23.00	22.29	22.10	22.24	23.00
	25 (RB_Pos:12)	22.10	22.20	21.99	23.00	22.27	22.15	22.12	23.00
	25 (RB_Pos:25)	22.26	22.10	22.29	23.00	22.23	21.98	21.99	23.00
	50 (RB_Pos:0)	22.22	22.26	22.16	23.00	21.96	22.06	22.29	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26705	26865	27025		26705	26865	27025	
3MHz	1 (RB_Pos:0)	21.96	22.01	21.99	23.00	22.05	22.03	22.10	23.00
	1 (RB_Pos:13)	22.06	22.12	22.21	23.00	22.23	22.24	22.19	23.00
	1 (RB_Pos:24)	22.21	22.28	22.27	23.00	22.27	22.04	22.19	23.00
	12 (RB_Pos:0)	22.11	22.03	22.03	23.00	22.06	22.08	21.98	23.00
	12 (RB_Pos:6)	22.05	22.24	22.07	23.00	21.96	22.15	22.05	23.00
	12 (RB_Pos:13)	22.10	21.98	22.26	23.00	22.14	22.26	22.20	23.00
	25 (RB_Pos:0)	22.15	22.10	22.06	23.00	22.14	22.06	22.23	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	26697	26865	27033		26697	26865	27033	
1.4MHz	1 (RB_Pos:0)	22.18	22.19	22.06	23.00	22.21	22.06	22.09	23.00
	1 (RB_Pos:13)	22.25	22.08	22.22	23.00	21.99	22.22	22.12	23.00
	1 (RB_Pos:24)	22.16	21.97	22.17	23.00	22.26	22.03	21.99	23.00
	12 (RB_Pos:0)	21.96	22.07	22.26	23.00	21.97	22.28	22.02	23.00
	12 (RB_Pos:6)	22.26	22.12	21.99	23.00	21.98	22.02	22.23	23.00
	12 (RB_Pos:13)	21.98	22.13	21.98	23.00	21.97	22.02	22.21	23.00
	25 (RB_Pos:0)	22.25	22.05	22.18	23.00	21.98	21.98	22.08	23.00

8.7.31 Power Reduced Level 1&2&3 of LTE Band 66

TDD LTE Band 66									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	132072	132322	132572		132072	132322	132572	
20MHz	1 (RB_Pos:0)	15.09	15.40	15.26	16.00	15.50	15.55	15.36	16.00
	1 (RB_Pos:50)	15.39	15.20	15.33	16.00	15.35	15.24	15.45	16.00
	1 (RB_Pos:99)	15.30	15.27	15.07	16.00	15.48	15.41	15.46	16.00

	50 (RB_Pos:0)	15.18	15.43	15.15	16.00	15.49	15.42	15.37	16.00
	50 (RB_Pos:25)	15.39	15.31	15.24	16.00	15.51	15.43	15.45	16.00
	50 (RB_Pos:50)	15.24	15.24	15.08	16.00	15.49	15.45	15.21	16.00
	100 (RB_Pos:0)	15.27	15.10	15.35	16.00	15.30	15.24	15.20	16.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	132047	132322	132597		132047	132322	132597	
15MHz	1 (RB_Pos:0)	15.37	15.31	15.18	16.00	15.46	15.52	15.30	16.00
	1 (RB_Pos:38)	15.34	15.14	15.15	16.00	15.26	15.34	15.37	16.00
	1 (RB_Pos:74)	15.12	15.22	15.26	16.00	15.54	15.48	15.54	16.00
	36 (RB_Pos:0)	15.36	15.32	15.41	16.00	15.26	15.24	15.21	16.00
	36 (RB_Pos:20)	15.39	15.19	15.30	16.00	15.36	15.50	15.51	16.00
	36 (RB_Pos:39)	15.37	15.42	15.34	16.00	15.31	15.37	15.38	16.00
	75 (RB_Pos:0)	15.14	15.43	15.29	16.00	15.32	15.35	15.29	16.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	132022	132322	132622		132022	132322	132622	
10MHz	1 (RB_Pos:0)	15.24	15.27	15.43	16.00	15.34	15.28	15.43	16.00
	1 (RB_Pos:25)	15.17	15.35	15.38	16.00	15.40	15.30	15.23	16.00
	1 (RB_Pos:49)	15.16	15.17	15.40	16.00	15.31	15.28	15.50	16.00
	25 (RB_Pos:0)	15.33	15.07	15.44	16.00	15.32	15.42	15.34	16.00
	25 (RB_Pos:12)	15.29	15.11	15.22	16.00	15.37	15.23	15.19	16.00
	25 (RB_Pos:25)	15.24	15.43	15.40	16.00	15.49	15.24	15.41	16.00
	50 (RB_Pos:0)	15.38	15.25	15.11	16.00	15.51	15.49	15.47	16.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	131997	132322	132647		131997	132322	132647	
5MHz	1 (RB_Pos:0)	15.12	15.27	15.29	16.00	15.34	15.42	15.51	16.00
	1 (RB_Pos:13)	15.29	15.08	15.21	16.00	15.40	15.22	15.32	16.00
	1 (RB_Pos:24)	15.18	15.38	15.41	16.00	15.41	15.24	15.26	16.00
	12 (RB_Pos:0)	15.33	15.09	15.40	16.00	15.20	15.37	15.19	16.00
	12 (RB_Pos:6)	15.11	15.23	15.24	16.00	15.53	15.24	15.27	16.00
	12 (RB_Pos:13)	15.09	15.25	15.10	16.00	15.47	15.51	15.50	16.00
	25 (RB_Pos:0)	15.26	15.31	15.08	16.00	15.49	15.22	15.22	16.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	131987	132322	132657		131987	132322	132657	
3MHz	1 (RB_Pos:0)	15.14	15.22	15.36	16.00	15.34	15.29	15.34	16.00
	1 (RB_Pos:25)	15.35	15.23	15.08	16.00	15.43	15.32	15.20	16.00
	1 (RB_Pos:49)	15.25	15.24	15.43	16.00	15.31	15.49	15.55	16.00
	25 (RB_Pos:0)	15.39	15.29	15.15	16.00	15.41	15.51	15.38	16.00

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	131979	132322		132665	131979	132322	
	25 (RB_Pos:12)	15.23	15.28	15.27	16.00	15.34	15.47	15.33	16.00
	25 (RB_Pos:25)	15.29	15.13	15.35	16.00	15.52	15.45	15.28	16.00
	50 (RB_Pos:0)	15.12	15.16	15.23	16.00	15.49	15.51	15.26	16.00
1.4MHz	1 (RB_Pos:0)	15.26	15.18	15.27	16.00	15.52	15.45	15.48	16.00
	1 (RB_Pos:13)	15.15	15.38	15.36	16.00	15.32	15.31	15.29	16.00
	1 (RB_Pos:24)	15.30	15.29	15.33	16.00	15.31	15.38	15.31	16.00
	12 (RB_Pos:0)	15.38	15.24	15.29	16.00	15.44	15.34	15.45	16.00
	12 (RB_Pos:6)	15.24	15.26	15.20	16.00	15.30	15.41	15.20	16.00
	12 (RB_Pos:13)	15.19	15.28	15.42	16.00	15.23	15.40	15.50	16.00
	25 (RB_Pos:0)	15.31	15.22	15.27	16.00	15.53	15.32	15.25	16.00

8.7.32 Power Reduced Level 4&5&6 of LTE Band 66

TDD LTE Band 66									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	132072	132322		132572	132072	132322	
20MHz	1 (RB_Pos:0)	20.43	20.49	20.34	21.00	20.23	20.61	20.30	21.00
	1 (RB_Pos:50)	20.26	20.41	20.41	21.00	20.24	20.48	20.41	21.00
	1 (RB_Pos:99)	20.38	20.24	20.27	21.00	20.53	20.27	20.32	21.00
	50 (RB_Pos:0)	20.37	20.49	20.15	21.00	20.34	20.48	20.43	21.00
	50 (RB_Pos:25)	20.13	20.28	20.47	21.00	20.33	20.34	20.58	21.00
	50 (RB_Pos:50)	20.31	20.23	20.46	21.00	20.45	20.34	20.53	21.00
	100 (RB_Pos:0)	20.49	20.38	20.27	21.00	20.50	20.37	20.30	21.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	132047	132322		132597	132047	132322	
15MHz	1 (RB_Pos:0)	20.47	20.49	20.17	21.00	20.53	20.29	20.28	21.00
	1 (RB_Pos:38)	20.18	20.32	20.31	21.00	20.26	20.48	20.41	21.00
	1 (RB_Pos:74)	20.42	20.40	20.45	21.00	20.25	20.45	20.55	21.00
	36 (RB_Pos:0)	20.30	20.49	20.46	21.00	20.59	20.40	20.43	21.00
	36 (RB_Pos:20)	20.20	20.18	20.29	21.00	20.54	20.31	20.36	21.00
	36 (RB_Pos:39)	20.13	20.35	20.31	21.00	20.50	20.59	20.29	21.00
	75 (RB_Pos:0)	20.44	20.23	20.34	21.00	20.55	20.33	20.26	21.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	132022	132322		132622	132022	132322	
10MHz	1 (RB_Pos:0)	20.20	20.44	20.23	21.00	20.43	20.56	20.25	21.00

	1 (RB_Pos:25)	20.35	20.13	20.49	21.00	20.51	20.56	20.29	21.00
	1 (RB_Pos:49)	20.22	20.35	20.21	21.00	20.53	20.41	20.55	21.00
	25 (RB_Pos:0)	20.13	20.29	20.39	21.00	20.46	20.25	20.45	21.00
	25 (RB_Pos:12)	20.43	20.16	20.49	21.00	20.44	20.34	20.37	21.00
	25 (RB_Pos:25)	20.25	20.18	20.18	21.00	20.59	20.34	20.55	21.00
	50 (RB_Pos:0)	20.40	20.19	20.32	21.00	20.41	20.30	20.27	21.00
Bandwidth (MHz)	RB Set	Power (dBm)							
	Channel	QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		131997	132322	132647		131997	132322	132647	
5MHz	1 (RB_Pos:0)	20.14	20.27	20.45	21.00	20.27	20.40	20.36	21.00
	1 (RB_Pos:13)	20.39	20.37	20.35	21.00	20.58	20.45	20.47	21.00
	1 (RB_Pos:24)	20.47	20.17	20.44	21.00	20.31	20.34	20.47	21.00
	12 (RB_Pos:0)	20.21	20.26	20.47	21.00	20.60	20.59	20.31	21.00
	12 (RB_Pos:6)	20.27	20.20	20.37	21.00	20.25	20.39	20.52	21.00
	12 (RB_Pos:13)	20.30	20.27	20.28	21.00	20.49	20.60	20.24	21.00
	25 (RB_Pos:0)	20.45	20.45	20.25	21.00	20.60	20.40	20.51	21.00
Bandwidth (MHz)	RB Set	Power (dBm)							
	Channel	QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		131987	132322	132657		131987	132322	132657	
3MHz	1 (RB_Pos:0)	20.42	20.49	20.43	21.00	20.56	20.35	20.56	21.00
	1 (RB_Pos:25)	20.34	20.23	20.33	21.00	20.43	20.55	20.54	21.00
	1 (RB_Pos:49)	20.31	20.42	20.17	21.00	20.60	20.36	20.25	21.00
	25 (RB_Pos:0)	20.50	20.16	20.38	21.00	20.26	20.52	20.59	21.00
	25 (RB_Pos:12)	20.27	20.29	20.38	21.00	20.55	20.49	20.48	21.00
	25 (RB_Pos:25)	20.21	20.22	20.16	21.00	20.47	20.28	20.58	21.00
	50 (RB_Pos:0)	20.36	20.30	20.33	21.00	20.50	20.33	20.57	21.00
Bandwidth (MHz)	RB Set	Power (dBm)							
	Channel	QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		131979	132322	132665		131979	132322	132665	
1.4MHz	1 (RB_Pos:0)	20.40	20.23	20.43	21.00	20.32	20.48	20.41	21.00
	1 (RB_Pos:13)	20.37	20.40	20.34	21.00	20.59	20.43	20.26	21.00
	1 (RB_Pos:24)	20.47	20.14	20.17	21.00	20.53	20.56	20.44	21.00
	12 (RB_Pos:0)	20.40	20.35	20.45	21.00	20.59	20.60	20.53	21.00
	12 (RB_Pos:6)	20.14	20.25	20.32	21.00	20.26	20.49	20.30	21.00
	12 (RB_Pos:13)	20.38	20.40	20.25	21.00	20.34	20.38	20.58	21.00
	25 (RB_Pos:0)	20.33	20.33	20.29	21.00	20.60	20.60	20.50	21.00

8.7.33 Power Reduced Level 7&8&9 of LTE Band 66

TDD LTE Band 66									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	132072	132322	132572		132072	132322	132572	
20MHz	1 (RB_Pos:0)	22.21	22.38	22.20	23.00	21.96	21.82	22.07	23.00
	1 (RB_Pos:50)	22.33	22.15	22.30	23.00	21.77	21.95	21.82	23.00
	1 (RB_Pos:99)	22.19	22.24	22.21	23.00	21.85	21.98	22.05	23.00
	50 (RB_Pos:0)	22.24	22.46	22.22	23.00	21.70	21.52	21.61	23.00
	50 (RB_Pos:25)	22.28	22.13	22.43	23.00	21.80	21.61	21.46	23.00
	50 (RB_Pos:50)	22.24	22.27	22.22	23.00	21.50	21.62	21.53	23.00
	100 (RB_Pos:0)	22.13	22.21	22.36	23.00	21.60	21.60	21.75	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	132047	132322	132597		132047	132322	132597	
15MHz	1 (RB_Pos:0)	22.15	22.08	22.08	23.00	22.10	21.99	21.84	23.00
	1 (RB_Pos:38)	22.26	22.19	22.26	23.00	21.80	21.96	21.95	23.00
	1 (RB_Pos:74)	22.09	22.38	22.30	23.00	21.88	21.91	22.10	23.00
	36 (RB_Pos:0)	22.15	22.16	22.43	23.00	21.60	21.60	21.62	23.00
	36 (RB_Pos:20)	22.36	22.32	22.29	23.00	21.52	21.60	21.76	23.00
	36 (RB_Pos:39)	22.24	22.12	22.27	23.00	21.44	21.44	21.61	23.00
	75 (RB_Pos:0)	22.09	22.31	22.45	23.00	21.78	21.61	21.51	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	132022	132322	132622		132022	132322	132622	
10MHz	1 (RB_Pos:0)	22.08	22.12	22.12	23.00	21.76	21.83	21.76	23.00
	1 (RB_Pos:25)	22.39	22.21	22.25	23.00	22.04	21.95	21.81	23.00
	1 (RB_Pos:49)	22.30	22.31	22.41	23.00	21.99	21.86	21.74	23.00
	25 (RB_Pos:0)	22.19	22.41	22.11	23.00	21.78	21.44	21.58	23.00
	25 (RB_Pos:12)	22.33	22.30	22.37	23.00	21.68	21.63	21.54	23.00
	25 (RB_Pos:25)	22.41	22.37	22.27	23.00	21.69	21.64	21.46	23.00
	50 (RB_Pos:0)	22.38	22.33	22.43	23.00	21.73	21.79	21.62	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	131997	132322	132647		131997	132322	132647	
5MHz	1 (RB_Pos:0)	22.31	22.09	22.44	23.00	22.06	22.09	22.06	23.00
	1 (RB_Pos:13)	22.32	22.31	22.24	23.00	22.02	21.79	21.86	23.00
	1 (RB_Pos:24)	22.21	22.23	22.41	23.00	22.04	22.06	21.97	23.00
	12 (RB_Pos:0)	22.45	22.33	22.28	23.00	21.65	21.68	21.65	23.00
	12 (RB_Pos:6)	22.09	22.46	22.09	23.00	21.62	21.58	21.48	23.00
	12 (RB_Pos:13)	22.44	22.38	22.20	23.00	21.56	21.49	21.57	23.00

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	131987	132322		132657	131987	132322	
3MHz	25 (RB_Pos:0)	22.11	22.17	22.28	23.00	21.63	21.57	21.69	23.00
	1 (RB_Pos:0)	22.08	22.42	22.41	23.00	21.76	22.11	21.95	23.00
	1 (RB_Pos:25)	22.19	22.12	22.24	23.00	21.73	21.80	22.06	23.00
	1 (RB_Pos:49)	22.13	22.34	22.35	23.00	22.03	21.93	21.81	23.00
	25 (RB_Pos:0)	22.21	22.09	22.12	23.00	21.74	21.78	21.57	23.00
	25 (RB_Pos:12)	22.43	22.14	22.19	23.00	21.76	21.73	21.48	23.00
	25 (RB_Pos:25)	22.33	22.32	22.25	23.00	21.76	21.66	21.64	23.00
50 (RB_Pos:0)	22.46	22.39	22.35	23.00	21.79	21.77	21.53	23.00	
1.4MHz	1 (RB_Pos:0)	22.42	22.44	22.22	23.00	21.92	21.87	21.75	23.00
	1 (RB_Pos:13)	22.43	22.09	22.33	23.00	21.87	22.09	21.91	23.00
	1 (RB_Pos:24)	22.29	22.21	22.10	23.00	22.07	22.02	21.90	23.00
	12 (RB_Pos:0)	22.46	22.43	22.24	23.00	21.84	22.02	21.81	23.00
	12 (RB_Pos:6)	22.27	22.09	22.32	23.00	21.98	21.93	22.07	23.00
	12 (RB_Pos:13)	22.25	22.13	22.43	23.00	21.97	22.06	21.79	23.00
	25 (RB_Pos:0)	22.46	22.34	22.12	23.00	21.74	21.66	21.76	23.00

8.7.34 Power Reduced Level 1&2&3&4&5&6 of LTE Band 38

TDD LTE Band 38									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	37850	38000		38150	37850	38000	
20MHz	1 (RB_Pos:0)	17.06	17.15	17.42	18.00	17.35	17.37	17.23	18.00
	1 (RB_Pos:50)	17.29	17.39	17.19	18.00	17.51	17.24	17.33	18.00
	1 (RB_Pos:99)	17.17	17.36	17.38	18.00	17.31	17.23	17.36	18.00
	50 (RB_Pos:0)	17.13	17.07	17.37	18.00	17.49	17.23	17.30	18.00
	50 (RB_Pos:25)	17.37	17.15	17.35	18.00	17.29	17.26	17.48	18.00
	50 (RB_Pos:50)	17.24	17.21	17.12	18.00	17.25	17.29	17.25	18.00
	100 (RB_Pos:0)	17.06	17.17	17.08	18.00	17.39	17.35	17.22	18.00
15MHz	1 (RB_Pos:0)	17.06	17.19	17.40	18.00	17.27	17.48	17.27	18.00
	1 (RB_Pos:38)	17.40	17.36	17.42	18.00	17.34	17.39	17.18	18.00
	1 (RB_Pos:74)	17.18	17.08	17.07	18.00	17.45	17.33	17.46	18.00

Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	37800	38000		38200	37800	38000	
	36 (RB_Pos:0)	17.26	17.40	17.09	18.00	17.24	17.35	17.44	18.00
	36 (RB_Pos:20)	17.39	17.11	17.27	18.00	17.23	17.44	17.21	18.00
	36 (RB_Pos:39)	17.32	17.11	17.21	18.00	17.22	17.40	17.44	18.00
	75 (RB_Pos:0)	17.41	17.27	17.34	18.00	17.21	17.24	17.35	18.00
10MHz	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	37800	38000		38200	37800	38000	
	1 (RB_Pos:0)	17.29	17.33	17.29	18.00	17.23	17.31	17.42	18.00
	1 (RB_Pos:25)	17.37	17.31	17.31	18.00	17.22	17.28	17.27	18.00
	1 (RB_Pos:49)	17.32	17.11	17.06	18.00	17.23	17.43	17.35	18.00
	25 (RB_Pos:0)	17.09	17.38	17.15	18.00	17.33	17.22	17.45	18.00
	25 (RB_Pos:12)	17.18	17.43	17.09	18.00	17.20	17.43	17.46	18.00
	25 (RB_Pos:25)	17.43	17.19	17.07	18.00	17.44	17.21	17.24	18.00
	50 (RB_Pos:0)	17.23	17.40	17.37	18.00	17.40	17.53	17.22	18.00
5MHz	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	37775	38000		38225	37775	38000	
	1 (RB_Pos:0)	17.18	17.15	17.43	18.00	17.18	17.47	17.38	18.00
	1 (RB_Pos:13)	17.40	17.40	17.36	18.00	17.33	17.17	17.18	18.00
	1 (RB_Pos:24)	17.39	17.42	17.19	18.00	17.28	17.37	17.21	18.00
	12 (RB_Pos:0)	17.11	17.27	17.32	18.00	17.34	17.42	17.36	18.00
	12 (RB_Pos:6)	17.19	17.36	17.30	18.00	17.32	17.19	17.25	18.00
	12 (RB_Pos:13)	17.21	17.14	17.41	18.00	17.27	17.35	17.24	18.00
	25 (RB_Pos:0)	17.31	17.18	17.15	18.00	17.24	17.24	17.25	18.00

8.7.35 Power Reduced Level 7&8&9 of LTE Band 38

TDD LTE Band 38									
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	37850	38000		38150	37850	38000	
20MHz	1 (RB_Pos:0)	22.24	22.18	22.34	23.00	22.23	22.34	22.16	23.00
	1 (RB_Pos:50)	22.22	22.03	22.26	23.00	22.19	22.27	22.07	23.00
	1 (RB_Pos:99)	22.16	22.09	22.10	23.00	22.30	22.13	22.02	23.00
	50 (RB_Pos:0)	22.19	22.03	22.34	23.00	22.06	22.05	21.98	23.00
	50 (RB_Pos:25)	22.32	22.31	22.21	23.00	22.03	22.19	22.28	23.00
	50 (RB_Pos:50)	22.33	22.09	22.02	23.00	22.27	22.10	22.19	23.00
	100 (RB_Pos:0)	22.15	22.18	22.25	23.00	22.17	22.14	22.06	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
		Channel	37825	38000		38175	37825	38000	

15MHz	1 (RB_Pos:0)	22.27	22.25	22.00	23.00	22.05	22.33	22.01	23.00
	1 (RB_Pos:38)	22.03	22.02	22.25	23.00	22.04	22.08	22.14	23.00
	1 (RB_Pos:74)	22.14	22.34	22.26	23.00	22.28	22.24	22.13	23.00
	36 (RB_Pos:0)	22.06	22.15	22.22	23.00	21.97	22.28	22.05	23.00
	36 (RB_Pos:20)	22.27	22.19	22.21	23.00	22.18	21.96	21.96	23.00
	36 (RB_Pos:39)	21.97	22.23	22.03	23.00	22.31	22.29	22.12	23.00
	75 (RB_Pos:0)	22.03	22.04	22.12	23.00	22.02	22.02	22.29	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37800	38000	38200		37800	38000	38200	
10MHz	1 (RB_Pos:0)	22.20	22.06	22.04	23.00	22.28	22.31	22.16	23.00
	1 (RB_Pos:25)	22.33	22.13	22.02	23.00	22.33	21.97	22.09	23.00
	1 (RB_Pos:49)	22.15	22.23	21.99	23.00	22.03	22.04	22.30	23.00
	25 (RB_Pos:0)	22.08	22.16	21.96	23.00	22.24	22.23	21.96	23.00
	25 (RB_Pos:12)	22.14	22.12	22.19	23.00	21.97	22.30	22.00	23.00
	25 (RB_Pos:25)	22.32	22.08	22.25	23.00	22.31	21.96	22.18	23.00
	50 (RB_Pos:0)	21.98	22.28	21.97	23.00	22.21	22.21	22.10	23.00
Bandwidth (MHz)	RB Set	Power (dBm)							
		QPSK			Tune up limit (dBm)	16QAM			Tune up limit (dBm)
	Channel	37775	38000	38225		37775	38000	38225	
5MHz	1 (RB_Pos:0)	22.19	22.28	22.00	23.00	22.10	22.11	22.05	23.00
	1 (RB_Pos:13)	22.13	22.22	22.25	23.00	22.21	22.32	22.34	23.00
	1 (RB_Pos:24)	22.17	22.02	22.11	23.00	21.99	22.14	22.03	23.00
	12 (RB_Pos:0)	22.25	22.21	22.05	23.00	22.20	22.11	22.07	23.00
	12 (RB_Pos:6)	22.09	22.03	22.31	23.00	22.15	22.07	22.32	23.00
	12 (RB_Pos:13)	22.23	22.34	22.16	23.00	22.08	22.19	22.30	23.00
	25 (RB_Pos:0)	22.09	22.18	22.32	23.00	22.10	22.34	22.25	23.00

8.7.36 Power Reduced Level 1&2&3&4&5&6 of LTE Band 41

TDD LTE Band 41													
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)	17.44	17.36	17.34	17.41	17.30	18.00	17.19	17.29	17.22	17.23	17.35	18.00
	1 (RB_Pos:50)	17.24	17.25	17.14	17.20	17.18	18.00	17.31	17.44	17.49	17.47	17.29	18.00
	1 (RB_Pos:99)	17.25	17.41	17.28	17.18	17.16	18.00	17.54	17.38	17.20	17.24	17.36	18.00
	50 (RB_Pos:0)	17.42	17.35	17.35	17.32	17.24	18.00	17.43	17.21	17.49	17.17	17.26	18.00
	50 (RB_Pos:25)	17.40	17.35	17.30	17.28	17.18	18.00	17.32	17.17	17.45	17.45	17.44	18.00
	50 (RB_Pos:50)	17.39	17.34	17.30	17.22	17.08	18.00	17.29	17.49	17.21	17.38	17.26	18.00
	100 (RB_Pos:0)	17.25	17.40	17.27	17.27	17.28	18.00	17.30	17.35	17.51	17.38	17.21	18.00

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)	17.18	17.36	17.09	17.39	17.13	18.00	17.35	17.53	17.34	17.27	17.27	18.00
	1 (RB_Pos:50)	17.30	17.24	17.24	17.31	17.24	18.00	17.21	17.44	17.20	17.49	17.27	18.00
	1 (RB_Pos:99)	17.19	17.23	17.10	17.40	17.38	18.00	17.34	17.27	17.18	17.28	17.18	18.00
	50 (RB_Pos:0)	17.31	17.37	17.23	17.38	17.19	18.00	17.25	17.23	17.41	17.46	17.36	18.00
	50 (RB_Pos:25)	17.36	17.38	17.44	17.15	17.39	18.00	17.19	17.49	17.31	17.42	17.49	18.00
	50 (RB_Pos:50)	17.42	17.41	17.28	17.25	17.11	18.00	17.50	17.30	17.28	17.35	17.36	18.00
	100 (RB_Pos:0)	17.08	17.45	17.11	17.45	17.36	18.00	17.29	17.26	17.33	17.38	17.29	18.00
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)	17.15	17.15	17.23	17.27	17.12	18.00	17.22	17.41	17.40	17.53	17.17	18.00
	1 (RB_Pos:50)	17.43	17.17	17.14	17.35	17.15	18.00	17.37	17.43	17.25	17.53	17.52	18.00
	1 (RB_Pos:99)	17.41	17.39	17.40	17.29	17.14	18.00	17.47	17.52	17.17	17.25	17.53	18.00
	50 (RB_Pos:0)	17.41	17.30	17.38	17.32	17.40	18.00	17.20	17.16	17.20	17.53	17.30	18.00
	50 (RB_Pos:25)	17.16	17.40	17.33	17.33	17.31	18.00	17.50	17.22	17.23	17.43	17.40	18.00
	50 (RB_Pos:50)	17.29	17.45	17.40	17.39	17.17	18.00	17.47	17.32	17.27	17.18	17.31	18.00
	100 (RB_Pos:0)	17.10	17.26	17.12	17.45	17.18	18.00	17.42	17.32	17.52	17.27	17.26	18.00
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)	17.25	17.41	17.25	17.45	17.37	18.00	17.18	17.49	17.40	17.37	17.33	18.00
	1 (RB_Pos:50)	17.19	17.17	17.45	17.14	17.30	18.00	17.45	17.30	17.35	17.50	17.35	18.00
	1 (RB_Pos:99)	17.30	17.21	17.39	17.36	17.32	18.00	17.52	17.40	17.35	17.17	17.30	18.00
	50 (RB_Pos:0)	17.35	17.10	17.14	17.19	17.25	18.00	17.21	17.16	17.45	17.25	17.27	18.00
	50 (RB_Pos:25)	17.29	17.37	17.32	17.42	17.35	18.00	17.19	17.38	17.37	17.40	17.48	18.00
	50 (RB_Pos:50)	17.29	17.42	17.13	17.27	17.44	18.00	17.39	17.19	17.35	17.41	17.47	18.00
	100 (RB_Pos:0)	17.15	17.30	17.39	17.45	17.23	18.00	17.50	17.53	17.40	17.50	17.45	18.00

8.7.37 Power Reduced Level 7&8&9 of LTE Band 41

TDD LTE Band 41													
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)	22.35	22.15	22.32	22.08	22.34	23.00	22.35	22.34	22.14	22.05	22.14	23.00
	1 (RB_Pos:50)	22.22	21.99	22.32	22.32	21.96	23.00	22.09	22.33	22.06	22.10	21.97	23.00
	1 (RB_Pos:99)	21.99	22.31	22.06	22.20	22.19	23.00	22.16	22.04	22.22	22.34	22.24	23.00
	50 (RB_Pos:0)	22.35	22.28	22.23	21.97	22.02	23.00	22.25	22.24	22.08	21.97	21.99	23.00
	50 (RB_Pos:25)	22.25	22.35	22.04	21.97	22.31	23.00	21.98	22.03	22.02	22.31	22.05	23.00
	50 (RB_Pos:50)	22.26	22.15	22.01	22.26	22.01	23.00	22.14	22.16	22.15	22.30	21.96	23.00
	100 (RB_Pos:0)	22.14	22.03	22.03	22.05	22.19	23.00	21.96	22.27	22.09	22.13	22.05	23.00
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)	22.34	22.02	22.34	21.95	22.06	23.00	22.25	21.97	22.08	22.27	21.96	23.00
	1 (RB_Pos:50)	21.98	22.22	21.98	22.02	22.27	23.00	22.25	21.96	22.01	22.22	22.20	23.00
	1 (RB_Pos:99)	22.17	22.24	22.08	22.35	22.01	23.00	21.99	21.97	22.27	22.32	21.98	23.00
	50 (RB_Pos:0)	21.96	22.13	22.33	22.33	22.07	23.00	22.18	22.25	22.16	21.99	22.13	23.00
	50 (RB_Pos:25)	22.17	22.32	21.96	22.11	22.21	23.00	22.34	22.23	22.10	22.00	22.33	23.00
	50 (RB_Pos:50)	22.25	21.98	22.26	22.02	22.09	23.00	22.12	21.99	22.16	21.98	22.20	23.00
	100 (RB_Pos:0)	22.24	22.01	21.97	22.30	22.22	23.00	22.26	21.96	21.96	22.19	22.13	23.00
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)	22.03	22.30	22.18	22.18	22.02	23.00	22.13	22.16	22.12	21.99	22.09	23.00
	1 (RB_Pos:50)	22.03	22.18	22.33	22.03	22.05	23.00	22.25	22.14	22.07	22.04	22.31	23.00
	1 (RB_Pos:99)	22.09	22.35	22.33	22.25	22.19	23.00	22.00	22.20	21.95	22.29	22.32	23.00
	50 (RB_Pos:0)	22.04	22.11	22.09	21.97	22.19	23.00	22.25	22.11	22.11	22.00	21.98	23.00
	50 (RB_Pos:25)	22.23	21.96	21.98	22.22	22.27	23.00	22.28	22.30	21.98	22.17	22.26	23.00
	50 (RB_Pos:50)	22.03	22.33	22.31	22.03	22.02	23.00	22.35	22.31	22.24	22.31	22.11	23.00
	100 (RB_Pos:0)	22.10	22.33	22.15	22.18	22.00	23.00	22.02	22.24	22.26	22.17	22.32	23.00
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)	22.12	22.32	22.30	22.30	22.32	23.00	22.06	22.28	22.35	22.21	22.30	23.00
	1 (RB_Pos:50)	22.23	22.08	22.04	22.12	22.25	23.00	22.11	22.23	22.13	22.35	22.21	23.00

1 (RB_Pos:99)	22.15	22.07	22.08	22.18	22.34	23.00	22.13	22.24	22.00	22.10	22.02	23.00
50 (RB_Pos:0)	22.20	22.28	22.21	21.99	22.16	23.00	22.12	22.30	22.15	22.22	21.97	23.00
50 (RB_Pos:25)	22.04	22.08	22.28	22.15	22.33	23.00	22.28	22.15	21.99	22.01	22.24	23.00
50 (RB_Pos:50)	22.13	21.97	22.23	22.21	21.98	23.00	22.13	22.28	22.18	22.03	21.96	23.00
100 (RB_Pos:0)	22.31	22.16	22.15	21.97	22.15	23.00	22.19	22.29	22.30	22.31	22.22	23.00

8.7.38 Power Reduced Level 1&2&3 of LTE Uplink 2CA_ Bnad7

LTE Uplink 2CA_ Bnad7-Level1									
Combination 20MHz+20MHz(100RB+100RB)									
PCC	SCC	Bnadwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.		
20850	21048	20	QPSK	1	High	1	Low	1	13.54
21100	20902	20	QPSK	1	Low	1	High	1	13.22
21350	21152	20	QPSK	1	Low	1	High	1	13.12

8.7.39 Power Reduced Level 4&5&6 of LTE Uplink 2CA_ Bnad7

LTE Uplink 2CA_ Bnad7-Level2&3									
Combination 20MHz+20MHz(100RB+100RB)									
PCC	SCC	Bnadwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.		
20850	21048	20	QPSK	1	High	1	Low	1	16.46
21100	20902	20	QPSK	1	Low	1	High	1	16.24
21350	21152	20	QPSK	1	Low	1	High	1	16.40

8.7.40 Power Reduced Level 7&8&9 of LTE Uplink 2CA_ Bnad7

LTE Uplink 2CA_ Bnad7-Level4									
Combination 20MHz+20MHz(100RB+100RB)									
PCC	SCC	Bnadwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.		
20850	21048	20	QPSK	1	High	1	Low	1	20.24
21100	20902	20	QPSK	1	Low	1	High	1	20.22
21350	21152	20	QPSK	1	Low	1	High	1	20.24

8.7.41 Power Reduced Level 1&2&3&4&5&6 of LTE Uplink 2CA_ Bnad38

LTE Uplink 2CA_ Bnad38-Level1									
Combination 20MHz+20MHz(100RB+100RB)									
PCC	SCC	Bnadwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.		
37850	38048	20	QPSK	1	High	1	Low	1	15.97
38000	38099	20	QPSK	1	High	1	Low	1	16.29
38150	37952	20	QPSK	1	Low	1	High	1	16.17

8.7.42 Power Reduced Level 7&8&9 of LTE Uplink 2CA_ Bnad38

LTE Uplink 2CA_ Bnad38-Level2&3									
Combination 20MHz+20MHz(100RB+100RB)									
PCC	SCC	Bnadwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.		
37850	38048	20	QPSK	1	High	1	Low	1	21.11
38000	38099	20	QPSK	1	High	1	Low	1	21.20
38150	37952	20	QPSK	1	Low	1	High	1	21.08

8.7.43 Power Reduced Level 1&2&3&4&5&6 of LTE Uplink 2CA_ Bnad41

LTE Uplink 2CA_ Bnad41-Level1									
Combination 20MHz+20MHz(100RB+100RB)									
PCC	SCC	Bnadwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.		
39750	39948	20	QPSK	1	High	1	Low	1	16.44
40185	40383	20	QPSK	1	High	1	Low	1	16.56
40620	40422	20	QPSK	1	Low	1	High	1	16.54
41055	40857	20	QPSK	1	Low	1	High	1	16.60
41490	41292	20	QPSK	1	Low	1	High	1	16.54

8.7.44 Power Reduced Level 7&8&9 of LTE Uplink 2CA_ Bnad41

LTE Uplink 2CA_ Bnad41-Level2&3									
Combination 20MHz+20MHz(100RB+100RB)									
PCC	SCC	Bnadwidth	Modulation	PCC		SCC		Total RB Size	Measured Power(dBm)
				RB Size	RB Pos.	RB Size	RB Pos.		
39750	39948	20	QPSK	1	High	1	Low	1	21.47
40185	40383	20	QPSK	1	High	1	Low	1	21.39
40620	40422	20	QPSK	1	Low	1	High	1	21.52
41055	40857	20	QPSK	1	Low	1	High	1	21.43
41490	41292	20	QPSK	1	Low	1	High	1	21.44

8.7.45 Power Reduced Level 1&2 of 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	13.35	14.00	Yes
		6	2437	13.08	14.00	Yes
		11	2462	13.39	14.00	Yes
	802.11g	1	2412	12.59	13.00	No
		6	2437	12.22	13.00	No
		11	2462	12.45	13.00	No
	802.11n(HT20)	1	2412	12.37	13.00	No
		6	2437	11.01	13.00	No
		11	2462	12.38	13.00	No
	802.11ac(VHT20)	1	2412	11.99	13.00	No
		6	2437	12.36	13.00	No
		11	2462	11.85	13.00	No

8.7.46 Power Reduced Level 3 of 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	14.34	15.00	Yes
		6	2437	14.95	16.00	Yes
		11	2462	14.35	15.00	Yes
	802.11g	1	2412	14.00	15.00	No
		6	2437	13.62	15.00	No
		11	2462	13.96	15.00	No
	802.11n(HT20)	1	2412	13.83	15.00	No
		6	2437	13.48	15.00	No
		11	2462	13.77	15.00	No
	802.11ac(VHT20)	1	2412	13.80	15.00	No
		6	2437	14.39	15.00	No
		11	2462	13.84	15.00	No

8.7.47 Power Reduced Level 4 of 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	14.34	15.00	Yes
		6	2437	14.01	15.00	Yes
		11	2462	14.35	15.00	Yes
	802.11g	1	2412	14.00	14.00	No
		6	2437	13.62	14.00	No
		11	2462	13.96	14.00	No
	802.11n(HT20)	1	2412	13.83	14.00	No
		6	2437	13.48	14.00	No
		11	2462	13.77	14.00	No
	802.11ac(VHT20)	1	2412	13.02	14.00	No
		6	2437	13.33	14.00	No
		11	2462	12.95	14.00	No

8.7.48 Power Reduced Level 1 of 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	13.83	14.50	Yes
		44	5220	13.62	14.50	Yes
		48	5240	13.75	14.50	Yes
	802.11n(HT20)	36	5180	14.01	14.50	No
		44	5220	13.97	14.50	No
		48	5240	13.72	14.50	No
	802.11n(HT40)	38	5190	12.6	13.50	No
		46	5230	12.78	13.50	No
	802.11ac(VHT20)	36	5180	13.9	14.50	No
		44	5220	13.79	14.50	No
		48	5240	13.57	14.50	No
	802.11ac(VHT40)	38	5190	12.94	13.50	No
		46	5230	12.67	13.50	No
	802.11ac(VHT80)	42	5210	12.77	13.50	No
	5.3 (5.25~5.35)	802.11a	52	5260	13.93	14.50
60			5300	14.18	14.50	Yes
64			5320	14.08	14.50	Yes
802.11n(HT20)		52	5260	13.88	14.50	No
		60	5300	13.72	14.50	No
		64	5320	13.78	14.50	No
802.11n(HT40)		54	5270	12.63	13.50	No
		62	5310	13.1	13.50	No

	802.11ac(VHT20)	52	5260	13.84	14.50	No	
		60	5300	13.82	14.50	No	
		64	5320	13.7	14.50	No	
	802.11ac(VHT40)	54	5270	12.75	13.50	No	
		62	5310	12.82	13.50	No	
802.11ac(VHT80)	58	5290	12.52	13.50	No		
5.6 (5.47~5.725)	802.11a	100	5500	13.67	14.00	Yes	
		116	5580	13.82	14.00	Yes	
		140	5700	13.44	14.00	Yes	
	802.11n(HT20)	100	5500	13.43	14.00	No	
		116	5580	13.09	14.00	No	
		140	5700	13.68	14.00	No	
	802.11n(HT40)	102	5510	12.54	13.00	No	
		118	5590	12.34	13.00	No	
		134	5670	12.54	13.00	No	
	802.11ac(VHT20)	100	5500	13.35	14.00	No	
		116	5580	13.53	14.00	No	
		140	5700	13.46	14.00	No	
	802.11ac(VHT40)	102	5510	12.28	13.00	No	
		118	5590	12.15	13.00	No	
		134	5670	12.29	13.00	No	
	802.11ac(VHT80)	106	5530	12.52	13.00	No	
		122	5690	12.58	13.00	No	
	5.8 (5.725~5.850)	802.11a	149	5745	12.18	12.50	Yes
			157	5785	12.03	12.50	Yes
			165	5825	12.36	12.50	Yes
		802.11n(HT20)	149	5745	11.72	12.50	No
157			5785	11.76	12.50	No	
165			5825	11.76	12.50	No	
802.11n(HT40)		151	5755	11.01	11.50	No	
		159	5795	11.07	11.50	No	
802.11ac(VHT20)		149	5745	12.05	12.50	No	
		157	5785	11.83	12.50	No	
		165	5825	12.06	12.50	No	
802.11ac(VHT40)		151	5755	10.78	11.50	No	
		159	5795	10.65	11.50	No	
802.11ac(VHT80)		155	5775	10.74	11.50	No	

8.7.49 Power Reduced Level 2 of 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	10.36	11.00	Yes
		44	5220	9.99	11.00	Yes
		48	5240	10.31	11.00	Yes
	802.11n(HT20)	36	5180	10.5	11.00	No
		44	5220	10.57	11.00	No
		48	5240	10.26	11.00	No
	802.11n(HT40)	38	5190	9.05	10.00	No
		46	5230	9.21	10.00	No
	802.11ac(VHT20)	36	5180	10.29	11.00	No
		44	5220	10.25	11.00	No
		48	5240	10.04	11.00	No
	802.11ac(VHT40)	38	5190	9.44	10.00	No
		46	5230	9.22	10.00	No
	802.11ac(VHT80)	42	5210	9.23	10.00	No
	5.3 (5.25~5.35)	802.11a	52	5260	10.32	11.00
60			5300	10.75	11.00	Yes
64			5320	10.53	11.00	Yes
802.11n(HT20)		52	5260	10.36	11.00	No
		60	5300	10.11	11.00	No
		64	5320	10.34	11.00	No
802.11n(HT40)		54	5270	9.01	10.00	No
		62	5310	9.58	10.00	No
802.11ac(VHT20)		52	5260	10.47	11.00	No
		60	5300	10.32	11.00	No
		64	5320	10.21	11.00	No
802.11ac(VHT40)		54	5270	9.23	10.00	No
		62	5310	9.2	10.00	No
802.11ac(VHT80)		58	5290	8.89	10.00	No
5.6 (5.47~5.725)		802.11a	100	5500	10.58	11.00
	116		5580	10.73	11.00	Yes
	140		5700	10.57	11.00	Yes
	802.11n(HT20)	100	5500	10.57	11.00	No
		116	5580	10.2	11.00	No
		140	5700	10.78	11.00	No
	802.11n(HT40)	102	5510	9.46	10.00	No
		118	5590	9.22	10.00	No
		134	5670	9.41	10.00	No
	802.11ac(VHT20)	100	5500	10.33	11.00	No

		116	5580	10.68	11.00	No
		140	5700	10.5	11.00	No
	802.11ac(VHT40)	102	5510	9.19	10.00	No
		118	5590	9.19	10.00	No
		134	5670	9.25	10.00	No
	802.11ac(VHT80)	106	5530	9.61	10.00	No
122		5690	9.68	10.00	No	
5.8 (5.725~5.850)	802.11a	149	5745	8.57	9.00	Yes
		157	5785	8.39	9.00	Yes
		165	5825	8.78	9.00	Yes
	802.11n(HT20)	149	5745	8.12	9.00	No
		157	5785	8.37	9.00	No
		165	5825	8.28	9.00	No
	802.11n(HT40)	151	5755	7.38	8.00	No
		159	5795	7.65	8.00	No
	802.11ac(VHT20)	149	5745	8.47	9.00	No
		157	5785	8.43	9.00	No
		165	5825	8.66	9.00	No
	802.11ac(VHT40)	151	5755	7.41	8.00	No
		159	5795	7.06	8.00	No
	802.11ac(VHT80)	155	5775	7.11	8.00	No

8.7.50 Power Reduced Level 3 of 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	13.80	14.00	Yes
		44	5220	13.62	14.00	Yes
		48	5240	13.71	14.00	Yes
	802.11n(HT20)	36	5180	13.85	14.00	No
		44	5220	13.97	14.00	No
		48	5240	13.72	14.00	No
	802.11n(HT40)	38	5190	12.6	13.00	No
		46	5230	12.78	13.00	No
	802.11ac(VHT20)	36	5180	13.9	14.00	No
		44	5220	13.79	14.00	No
		48	5240	13.57	14.00	No
	802.11ac(VHT40)	38	5190	12.94	13.00	No
46		5230	12.67	13.00	No	
802.11ac(VHT80)	42	5210	12.77	13.00	No	
5.3 (5.25~5.35)	802.11a	52	5260	13.93	14.00	Yes
		60	5300	13.98	14.00	Yes

		64	5320	13.98	14.00	Yes
	802.11n(HT20)	52	5260	13.88	14.00	No
		60	5300	13.72	14.00	No
		64	5320	13.78	14.00	No
	802.11n(HT40)	54	5270	12.63	13.00	No
		62	5310	12.85	13.00	No
	802.11ac(VHT20)	52	5260	13.84	14.00	No
		60	5300	13.82	14.00	No
		64	5320	13.7	14.00	No
	802.11ac(VHT40)	54	5270	12.75	13.00	No
62		5310	12.82	13.00	No	
802.11ac(VHT80)	58	5290	12.52	13.00	No	
5.6 (5.47~5.725)	802.11a	100	5500	13.87	14.00	Yes
		116	5580	13.98	14.00	Yes
		140	5700	13.84	14.00	Yes
	802.11n(HT20)	100	5500	13.93	14.00	No
		116	5580	13.59	14.00	No
		140	5700	13.78	14.00	No
	802.11n(HT40)	102	5510	12.84	13.00	No
		118	5590	12.84	13.00	No
		134	5670	12.82	13.00	No
	802.11ac(VHT20)	100	5500	13.85	14.00	No
		116	5580	13.93	14.00	No
		140	5700	13.96	14.00	No
	802.11ac(VHT40)	102	5510	12.78	13.00	No
		118	5590	12.65	13.00	No
		134	5670	12.79	13.00	No
	802.11ac(VHT80)	106	5530	12.85	13.00	No
		122	5690	12.78	13.00	No
	5.8 (5.725~5.850)	802.11a	149	5745	13.74	14.00
157			5785	13.56	14.00	Yes
165			5825	13.93	14.00	Yes
802.11n(HT20)		149	5745	13.22	14.00	No
		157	5785	13.22	14.00	No
		165	5825	13.21	14.00	No
802.11n(HT40)		151	5755	12.43	13.00	No
		159	5795	12.64	13.00	No
802.11ac(VHT20)		149	5745	13.52	14.00	No
		157	5785	13.27	14.00	No
		165	5825	13.63	14.00	No
802.11ac(VHT40)	151	5755	12.24	13.00	No	

		159	5795	12.02	13.00	No
	802.11ac(VHT80)	155	5775	12.28	13.00	No

8.7.51 Power Reduced Level 4 of 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	11.91	12.00	Yes
		44	5220	11.61	12.00	Yes
		48	5240	11.87	12.00	Yes
	802.11n(HT20)	36	5180	11.97	12.00	No
		44	5220	11.96	12.00	No
		48	5240	11.81	12.00	No
	802.11n(HT40)	38	5190	10.72	11.00	No
		46	5230	10.85	11.00	No
	802.11ac(VHT20)	36	5180	11.89	12.00	No
		44	5220	11.69	12.00	No
		48	5240	11.44	12.00	No
	802.11ac(VHT40)	38	5190	10.91	11.00	No
		46	5230	10.62	11.00	No
	802.11ac(VHT80)	42	5210	10.65	11.00	No
	5.3 (5.25~5.35)	802.11a	52	5260	11.69	12.00
60			5300	11.88	12.00	Yes
64			5320	11.87	12.00	Yes
802.11n(HT20)		52	5260	11.92	12.00	No
		60	5300	11.68	12.00	No
		64	5320	11.88	12.00	No
802.11n(HT40)		54	5270	10.58	11.00	No
		62	5310	10.41	11.00	No
802.11ac(VHT20)		52	5260	11.71	12.00	No
		60	5300	11.77	12.00	No
		64	5320	11.81	12.00	No
802.11ac(VHT40)		54	5270	10.6	11.00	No
		62	5310	10.74	11.00	No
802.11ac(VHT80)		58	5290	10.38	11.00	No
5.6 (5.47~5.725)		802.11a	100	5500	11.38	12.00
	116		5580	11.85	12.00	Yes
	140		5700	11.82	12.00	Yes
	802.11n(HT20)	100	5500	11.99	12.00	No
		116	5580	11.62	12.00	No
		140	5700	11.82	12.00	No
	802.11n(HT40)	102	5510	10.93	11.00	No

		118	5590	10.8	11.00	No
		134	5670	10.79	11.00	No
	802.11ac(VHT20)	100	5500	11.95	12.00	No
		116	5580	11.85	12.00	No
		140	5700	11.91	12.00	No
	802.11ac(VHT40)	102	5510	10.87	11.00	No
		118	5590	10.77	11.00	No
		134	5670	10.75	11.00	No
	802.11ac(VHT80)	106	5530	10.80	11.00	No
		122	5690	10.83	11.00	No
5.8 (5.725~5.850)	802.11a	149	5745	11.88	12.00	Yes
		157	5785	11.55	12.00	Yes
		165	5825	11.88	12.00	Yes
	802.11n(HT20)	149	5745	11.3	12.00	No
		157	5785	11.13	12.00	No
		165	5825	11.12	12.00	No
	802.11n(HT40)	151	5755	10.51	11.00	No
		159	5795	10.73	11.00	No
	802.11ac(VHT20)	149	5745	11.47	12.00	No
		157	5785	11.36	12.00	No
		165	5825	11.69	12.00	No
	802.11ac(VHT40)	151	5755	10.22	11.00	No
		159	5795	9.92	11.00	No
	802.11ac(VHT80)	155	5775	10.23	11.00	No

8.8 LTE Downlink Carrier Aggregation Setup Configurations

LTE Carrier Aggregation (CA) was defined in 3GPP release 10 and higher. The LTE device in CA mode has one Primary Component Carrier (PCC) and one or more Secondary Component Carriers (SCC). PCC acts as the anchor carrier and can optionally cross-schedule data transmission on SCC. The RRC connection is only handled by one cell, the PCC for downlink and uplink communications. After making a data connection to the PCC, the LTE device adds the SCC on the downlink only. All uplink communications and acknowledgements remain identical to release 8 specifications on the PCC. The combinations of downlink carrier aggregation supported by this device are listed in below.

8.8.1 Downlink Intra-Band Bandwidth Combination sets for Contiguous CA

Downlink CA configuration	Component carriers in order of increasing carrier frequency		Maximum aggregated bandwidth [MHz]	Bandwidth combination set
	Channel bandwidths for carrier-1 [MHz]	Channel bandwidths for carrier-2 [MHz]		
CA_2C	5	20	40	0
	10	15, 20		
	15	10, 15, 20		
	20	5, 10, 15, 20		
CA_7B	15	5	20	0
CA_7C	15	15	40	0
	20	20		
	10	20	40	1
	15	15,20		
	20	10, 15, 20	40	2
	15	10,15		
20	15,20			
CA_38C	15	15	40	0
	20	20		
CA_41C	10	20	40	0
	15	15, 20		
	20	10, 15, 20		
	5, 10	20	40	1
	15	15, 20		
	20	5, 10, 15, 20		
	10	15, 20	40	2
	15	10, 15, 20		
	20	10, 15, 20		
	10	20	40	3
20	20			

8.8.2 Downlink Intra-Band Bandwidth Combination sets for Non-Contiguous CA

Downlink CA configuration	Component carriers in order of increasing carrier frequency		Maximum aggregated bandwidth [MHz]	Bandwidth combination set
	Channel bandwidths for carrier-1 [MHz]	Channel bandwidths for carrier-2 [MHz]		
CA_7A-7A	5	15	40	0
	10	10, 15		
	15	15, 20		
	20	20		
	5, 10, 15, 20	5, 10, 15, 20	40	1
	5, 10, 15, 20	5, 10	30	2
	10, 15, 20	10, 15, 20	40	3
CA_41A-41A	10, 15, 20	10, 15, 20	40	0
	5, 10, 15, 20	5, 10, 15, 20	40	1
CA_66A-66A	5, 10, 15, 20	5, 10, 15, 20	40	0

8.8.3 Downlink Bandwidth Combination sets for Inter-band CA(Two Bands)

Downlink CA configuration	LTE Bands	Channel Bandwidths for Carrier [MHz]	Maximum aggregated bandwidth [MHz]	Bandwidth combination set
CA_2A-5A	2	5, 10, 15, 20	30	0
	5	5,10		
	2	5,10	20	1
	5	5,10		
CA_4A-5A	4	5,10	20	0
	5	5,10		
	4	5, 10, 15, 20	30	1
	5	5,10		
CA_4A-7A	4	5,10	30	0
	7	5, 10, 15,20		
	4	5,10,15,20	40	1
	7	5,10,15,20		
CA_5A-7A	5	1.4, 3, 5, 10	30	0
	7	5,10, 15,20		
	5	5,10	30	1
	7	5,10, 15,20		

8.9 Power Confirmation for SAR test Exclusion for LTE Downlink CA

Note:

1. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.
2. Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
3. The device supports downlink two carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
4. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
5. For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.

8.9.1 Full Power Measurement for Intra-Band Contiguous Downlink CA

CA Combination	PCC								SCC1				Power(dBm)	
	LTE Band	BW (MHz)	UL Ch.	UL Freq. (MHz)	RB Size	RB Offset	DL Ch.	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Ch.	DL Freq. (MHz)	Single Carrier Tx Power	Tx Power with DL-CA Active
7C	7	20M	21100	2535	1	49	3100	2655	7	20M	2902	2635.2	24.38	24.27
7B	7	15M	21100	2535	1	0	3100	2655	7	5M	3007	2645.7	24.35	24.18
38C	38	20M	38150	2610	1	0	38150	2610	38	20M	37952	2590.2	24.33	24.24
41C	41	20M	39750	2506	1	0	39750	2506	41	20M	39948	2525.8	24.39	24.28

8.9.2 Full Power Measurement for Intra-Band Non-Contiguous Downlink CA

CA Combination	PCC								SCC1				Power(dBm)	
	LTE Band	BW (MHz)	UL Ch.	UL Freq. (MHz)	RB Size	RB Offset	DL Ch.	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Ch.	DL Freq. (MHz)	Single Carrier Tx Power	Tx Power with DL-CA Active
7A-7A	7	20M	21100	2535	1	49	3100	2655	7	5M	3425	2687.5	24.38	24.15
41A-41A	41	20M	39750	2506	1	0	39750	2506	41	5M	41565	2687.5	24.39	24.19
66A-66A	66	20M	132322	1745	1	0	66788	2145.2	66	5M	67111	2177.5	24.03	23.93

8.9.3 Full Power Measurement for Inter-Band Non-Contiguous Downlink CA(Two Band)

CA Combination	PCC								SCC1				Power(dBm)	
	LTE Band	BW (MHz)	UL Ch.	UL Freq. (MHz)	RB Size	RB Offset	DL Ch.	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Ch.	DL Freq. (MHz)	Single Carrier Tx Power	Tx Power with DL-CA Active
2A-5A	2	20M	18900	1880	1	99	900	1960	5	10M	2525	881.5	24.23	23.91
4A-5A	4	20M	20175	1732.5	1	0	2175	2132.5	5	10M	2525	881.5	24.14	23.89
4A-7A	4	20M	20175	1732.5	1	0	2175	2132.5	7	20M	3100	2655	24.14	24.13
5A-7A	5	10M	20450	829.0	1	0	2450	874.0	7	20M	3100	2655	24.07	23.97
5A-41A	5	10M	20450	829.0	1	0	2450	874.0	41	20M	40620	2593	24.07	24.01

8.9.4 Power Reduced Level 1&2&3 for Intra-Band Contiguous Downlink CA

CA Combination	PCC								SCC1				Power(dBm)	
	LTE Band	BW (MHz)	UL Ch.	UL Freq. (MHz)	RB Size	RB Offset	DL Ch.	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Ch.	DL Freq. (MHz)	Single Carrier Tx Power	Tx Power with DL-CA Active
7C	7	20M	20850	2510	50	0	2850	2630	7	20M	3048	2649.8	14.52	14.23
7B	7	15M	21100	2535	1	0	3100	2655	7	5M	3193	2645.7	14.50	14.10
38C	38	20M	37850	2580	1	49	37850	2580	38	20M	37952	2590.2	17.51	17.22
41C	41	20M	39750	2506	1	99	39750	2506	41	20M	39948	2525.8	17.54	17.35

8.9.5 Power Reduced Level 1&2&3 for Intra-Band Non-Contiguous Downlink CA

CA Combination	PCC								SCC1				Power (dBm)	
	LTE Band	BW (MHz)	UL Ch.	UL Freq. (MHz)	RB Size	RB Offset	DL Ch.	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Ch.	DL Freq. (MHz)	Single Carrier Tx Power	Tx Power with DL-CA Active
7A-7A	7	20M	20850	2510	50	0	2850	2630	7	5M	3425	2687.5	14.52	14.38
41A-41A	41	20M	39750	2506	1	99	39750	2506	41	5M	41565	2687.5	17.54	17.43
66A-66A	66	20M	132322	1745	1	0	66788	2145.2	66	5M	67111	2177.5	15.55	15.19

8.9.6 Power Reduced Level 1&2&3 for Inter-Band Non-Contiguous Downlink CA(Two Band)

CA Combination	PCC								SCC1				Power(dBm)	
	LTE Band	BW (MHz)	UL Ch.	UL Freq. (MHz)	RB Size	RB Offset	DL Ch.	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Ch.	DL Freq. (MHz)	Single Carrier Tx Power	Tx Power with DL-CA Active
2A-5A	2	20M	18900	1880	1	99	900	1960	5	10M	2525	881.5	14.58	14.35
4A-5A	4	20M	20175	1732.5	1	0	2175	2132.5	5	10M	2525	881.5	14.40	14.09
4A-7A	4	20M	20175	1732.5	1	0	2175	2132.5	7	20M	3100	2655	14.40	14.11
5A-7A	5	10M	20450	829.0	1	0	2450	874.0	7	20M	3100	2655	20.26	20.13
5A-41A	5	10M	20450	829.0	1	0	2450	874.0	41	20M	40620	2593	20.26	20.15

8.9.7 Power Reduced Leve4&5&6 for Intra-Band Contiguous Downlink CA

CA Combination	PCC								SCC1				Power(dBm)	
	LTE Band	BW (MHz)	UL Ch.	UL Freq. (MHz)	RB Size	RB Offset	DL Ch.	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Ch.	DL Freq. (MHz)	Single Carrier Tx Power	Tx Power with DL-CA Active
7C	7	20M	21100	2535	1	49	3100	2655	7	20M	2902	2635.2	17.55	17.38
7B	7	15M	21100	2535	1	0	3100	2655	7	5M	3007	2645.7	17.54	17.32
38C	38	20M	37850	2580	1	49	37850	2580	38	20M	37952	2590.2	17.51	17.22
41C	41	20M	39750	2506	1	99	39750	2506	41	20M	39948	2525.8	17.54	17.35

8.9.8 Power Reduced Leve4&5&6 for Intra-Band Non-Contiguous Downlink CA

CA Combination	PCC								SCC1				Power(dBm)	
	LTE Band	BW (MHz)	UL Ch.	UL Freq. (MHz)	RB Size	RB Offset	DL Ch.	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Ch.	DL Freq. (MHz)	Single Carrier Tx Power	Tx Power with DL-CA Active
7A-7A	7	20M	21100	2535	1	49	3100	2655	7	5M	3425	2687.5	17.55	17.31
41A-41A	41	20M	39750	2506	1	99	39750	2506	41	5M	41565	2687.5	17.54	17.43
66A-66A	66	20M	132322	1745	1	0	66788	2145.2	66	5M	67111	2177.5	20.61	20.45

8.9.9 Power Reduced Leve4&5&6 for Inter-Band Non-Contiguous Downlink CA(Two Band)

CA Combination	PCC								SCC1				Power(dBm)	
	LTE Band	BW (MHz)	UL Ch.	UL Freq. (MHz)	RB Size	RB Offset	DL Ch.	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Ch.	DL Freq. (MHz)	Single Carrier Tx Power	Tx Power with DL-CA Active
2A-5A	2	20M	18900	1880	1	99	900	1960	5	10M	2525	881.5	17.61	17.39
4A-5A	4	20M	20175	1732.5	1	0	2175	2132.5	5	10M	2525	881.5	19.41	19.30
4A-7A	4	20M	20175	1732.5	1	0	2175	2132.5	7	20M	3100	2655	19.41	19.25

8.9.10 Power Reduced Leve7&8&9 for Intra-Band Contiguous Downlink CA

CA Combination	PCC								SCC1				Power(dBm)	
	LTE Band	BW (MHz)	UL Ch.	UL Freq. (MHz)	RB Size	RB Offset	DL Ch.	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Ch.	DL Freq. (MHz)	Single Carrier Tx Power	Tx Power with DL-CA Active
7C	7	20M	20850	2510	1	99	2850	2630	7	20M	3048	2649.8	21.53	21.21
7B	7	15M	21100	2535	1	0	3100	2655	7	5M	3193	2645.7	21.52	21.18
38C	38	20M	38150	2610	1	0	38150	2610	38	20M	37952	2590.2	22.34	22.24
41C	41	20M	39750	2506	1	0	39750	2506	41	20M	39948	2525.8	22.35	22.21

8.9.11 Power Reduced Level 7&8&9 for Intra-Band Non-Contiguous Downlink CA

CA Combination	PCC								SCC1				Power(dBm)	
	LTE Band	BW (MHz)	UL Ch.	UL Freq. (MHz)	RB Size	RB Offset	DL Ch.	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Ch.	DL Freq. (MHz)	Single Carrier Tx Power	Tx Power with DL-CA Active
7A-7A	7	20M	20850	2510	1	99	2850	2630	7	5M	3425	2687.5	21.53	21.25
41A-41A	41	20M	39750	2506	1	0	39750	2506	41	5M	41565	2687.5	22.35	22.19
66A-66A	66	20M	132322	1745	50	0	66788	2145.2	66	5M	67111	2177.5	22.46	22.29

8.9.12 Power Reduced Level 7&8&9 for Inter-Band Non-Contiguous Downlink CA(Two Band)

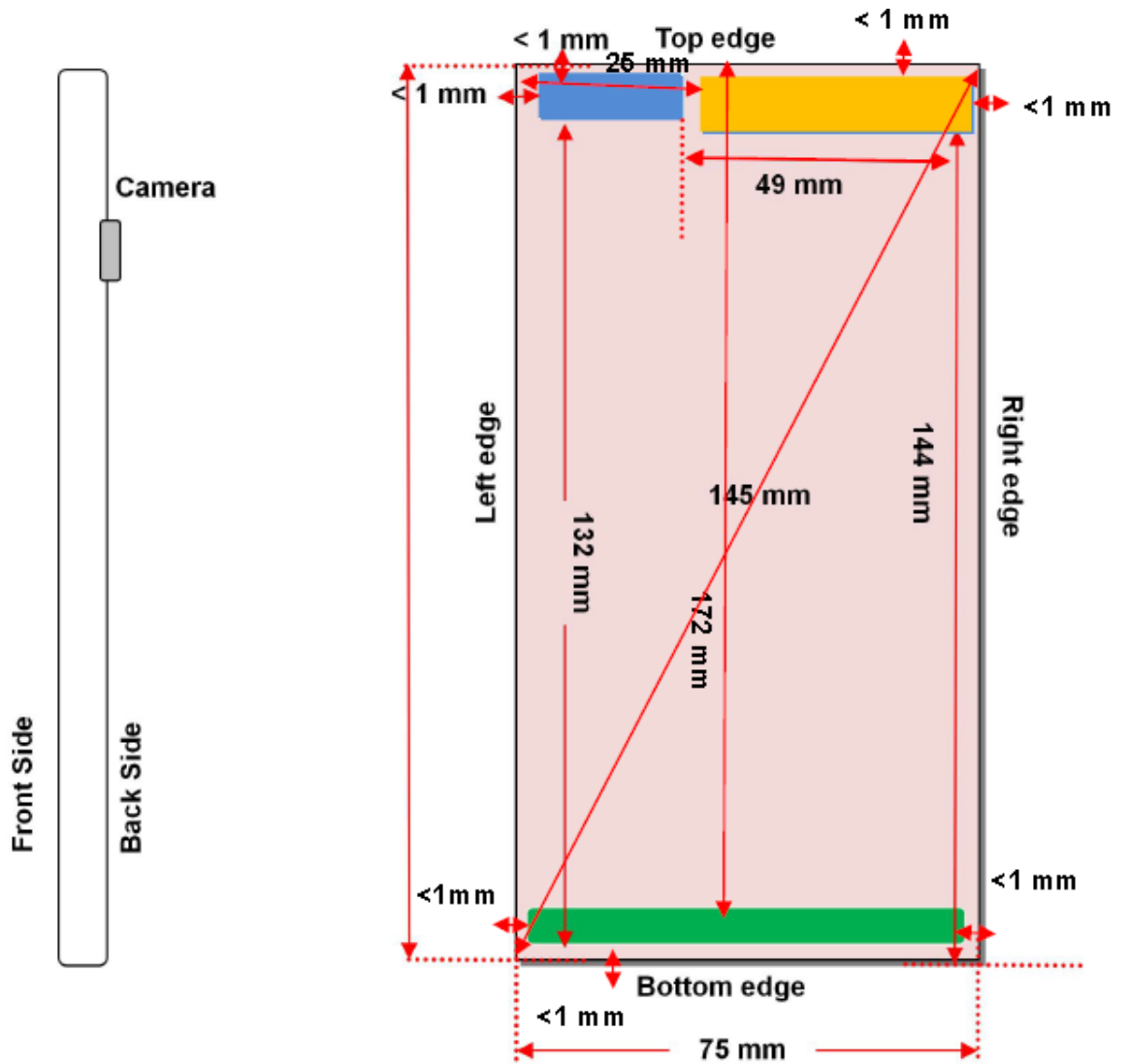
CA Combination	PCC								SCC1				Power(dBm)	
	LTE Band	BW (MHz)	UL Ch.	UL Freq. (MHz)	RB Size	RB Offset	DL Ch.	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Ch.	DL Freq. (MHz)	Single Carrier Tx Power	Tx Power with DL-CA Active
2A-5A	2	20M	18900	1880	1	99	900	1960	5	10M	2525	881.5	19.58	19.37
4A-5A	4	20M	20175	1732.5	1	0	2175	2132.5	5	10M	2525	881.5	21.42	21.25
4A-7A	4	20M	20175	1732.5	1	0	2175	2132.5	7	20M	3100	2655	21.42	21.28
5A-7A	5	10M	20450	829.0	1	99	2450	874.0	7	20M	3100	2655	22.31	22.19
5A-41A	5	10M	20450	829.0	1	99	2450	874.0	41	20M	40620	2593	22.31	22.16





Note:

Summary for SAR Test Exclusion for LTE Downlink CA

Per power confirmation results in above, the uplink maximum output power with downlink CA active remains within the specified tune-up tolerance and not more than 0.25 dB higher than the maximum output power with downlink CA inactive. According to KDB 941225 D05A, the SAR test exclusion applies to LTE downlink CA operation.

9 TEST EXCLUSION CONSIDERATION



-  WLAN/BT Antenna
-  WWAN Down Antenna
-  WWAN Up Antenna
-  EUT Back View

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 :

WWAN Up Antenna

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	<10mm	25mm	<5mm	<5mm	144mm
	Voice	34.00	2511.89	No	No	No	No	No	No
	Data	34.00	2511.89	Yes	Yes	No	Yes	Yes	No
GSM 1900	Distance to User			<5mm	<10mm	25mm	<5mm	<5mm	144mm
	Voice	31.00	1258.93	No	No	No	No	No	No
	Data	31.00	1258.93	Yes	Yes	No	Yes	Yes	No
WCDMA Band 2	Distance to User			<5mm	<10mm	25mm	<5mm	<5mm	144mm
	RMC	25.00	316.23	Yes	Yes	No	Yes	Yes	No
WCDMA Band 4	Distance to User			<5mm	<10mm	25mm	<5mm	<5mm	144mm
	RMC	25.00	316.23	Yes	Yes	No	Yes	Yes	No
WCDMA Band 5	Distance to User			<5mm	<10mm	25mm	<5mm	<5mm	144mm
	RMC	25.00	316.23	Yes	Yes	No	Yes	Yes	No
LTE Band 2	Distance to User			<5mm	<10mm	25mm	<5mm	<5mm	144mm
	VOIP	25.00	316.23	Yes	Yes	No	Yes	Yes	No
LTE Band 4	Distance to User			<5mm	<10mm	25mm	<5mm	<5mm	144mm
	VOIP	25.00	316.23	Yes	Yes	No	Yes	Yes	No
LTE Band 5	Distance to User			<5mm	<10mm	25mm	<5mm	<5mm	144mm
	VOIP	25.00	316.23	Yes	Yes	No	Yes	Yes	No
LTE Band 7	Distance to User			<5mm	<10mm	25mm	<5mm	<5mm	144mm
	VOIP	25.00	316.23	Yes	Yes	No	Yes	Yes	No
LTE Band 12	Distance to User			<5mm	<10mm	25mm	<5mm	<5mm	144mm
	VOIP	25.00	316.23	Yes	Yes	No	Yes	Yes	No
LTE Band 17	Distance to User			<5mm	<10mm	25mm	<5mm	<5mm	144mm
	VOIP	25.00	316.23	Yes	Yes	No	Yes	Yes	No
LTE Band 26	Distance to User			<5mm	<10mm	25mm	<5mm	<5mm	144mm
	VOIP	25.00	316.23	Yes	Yes	No	Yes	Yes	No
LTE Band 66	Distance to User			<5mm	<10mm	25mm	<5mm	<5mm	144mm
	VOIP	25.00	316.23	Yes	Yes	No	Yes	Yes	No
LTE Band 38	Distance to User			<5mm	<10mm	25mm	<5mm	<5mm	144mm
	VOIP	25.00	316.23	Yes	Yes	No	Yes	Yes	No
LTE Band 41	Distance to User			<5mm	<10mm	25mm	<5mm	<5mm	144mm
	VOIP	25.00	316.23	Yes	Yes	No	Yes	Yes	No

WWAN Down Antenna

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	<10mm	<5mm	<5mm	145mm	<5mm
	Voice	34.00	2511.89	No	No	No	No	No	No
	Data	34.00	2511.89	Yes	Yes	Yes	Yes	No	Yes
GSM 1900	Distance to User			<5mm	<10mm	<5mm	<5mm	145mm	<5mm
	Voice	31.00	1258.93	No	No	No	No	No	No
	Data	31.00	1258.93	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 2	Distance to User			<5mm	<10mm	<5mm	<5mm	145mm	<5mm
	RMC	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 4	Distance to User			<5mm	<10mm	<5mm	<5mm	145mm	<5mm
	RMC	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
WCDMA Band 5	Distance to User			<5mm	<10mm	<5mm	<5mm	145mm	<5mm
	RMC	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 2	Distance to User			<5mm	<10mm	<5mm	<5mm	145mm	<5mm
	VOIP	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 4	Distance to User			<5mm	<10mm	<5mm	<5mm	145mm	<5mm
	VOIP	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 5	Distance to User			<5mm	<10mm	<5mm	<5mm	145mm	<5mm
	VOIP	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 7	Distance to User			<5mm	<10mm	<5mm	<5mm	145mm	<5mm
	VOIP	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 12	Distance to User			<5mm	<10mm	<5mm	<5mm	145mm	<5mm
	VOIP	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 17	Distance to User			<5mm	<10mm	<5mm	<5mm	145mm	<5mm
	VOIP	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 26	Distance to User			<5mm	<10mm	<5mm	<5mm	145mm	<5mm
	VOIP	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 66	Distance to User			<5mm	<10mm	<5mm	<5mm	145mm	<5mm
	VOIP	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 38	Distance to User			<5mm	<10mm	<5mm	<5mm	145mm	<5mm
	VOIP	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes
LTE Band 41	Distance to User			<5mm	<10mm	<5mm	<5mm	145mm	<5mm
	VOIP	25.00	316.23	Yes	Yes	Yes	Yes	No	Yes

WLAN and Bluetooth

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	<10mm	<5mm	49mm	<5mm	132mm
	802.11b	17.00	50.12	Yes	Yes	Yes	No	Yes	No
	802.11g	16.00	39.81	No	No	No	No	No	No
	802.11n(HT20)	16.00	39.81	No	No	No	No	No	No
WLAN 5.2 G	Distance to User			<5mm	<10mm	<5mm	49mm	<5mm	132mm
	802.11a	18.0	63.10	Yes	Yes	Yes	No	Yes	No
	802.11n(HT20)	18.0	63.10	No	No	No	No	No	No
	802.11n(HT40)	18.0	63.10	No	No	No	No	No	No
	802.11ac(VHT20)	18.0	63.10	No	No	No	No	No	No
	802.11ac(VHT40)	18.0	63.10	No	No	No	No	No	No
	802.11ac(VHT80)	15.0	31.62	No	No	No	No	No	No
WLAN 5.3 G	Distance to User			<5mm	<10mm	<5mm	49mm	<5mm	132mm
	802.11a	19.0	63.10	Yes	Yes	Yes	No	Yes	No
	802.11n(HT20)	18.0	63.10	No	No	No	No	No	No
	802.11n(HT40)	18.0	63.10	No	No	No	No	No	No
	802.11ac(VHT20)	18.0	63.10	No	No	No	No	No	No
	802.11ac(VHT40)	18.0	63.10	No	No	No	No	No	No
	802.11ac(VHT80)	15.0	31.62	No	No	No	No	No	No
WLAN 5.6 G	Distance to User			<5mm	<10mm	<5mm	49mm	<5mm	132mm
	802.11a	20.0	100.00	Yes	Yes	Yes	No	Yes	No
	802.11n(HT20)	20.0	100.00	No	No	No	No	No	No
	802.11n(HT40)	20.0	100.00	No	No	No	No	No	No
	802.11ac(VHT20)	20.0	100.00	No	No	No	No	No	No
	802.11ac(VHT40)	20.0	100	No	No	No	No	No	No
	802.11ac(VHT80)	19.0	100	No	No	No	No	No	No
WLAN 5.8 G	Distance to User			<5mm	<10mm	<5mm	49mm	<5mm	132mm
	802.11a	16.50	44.67	Yes	Yes	Yes	No	Yes	No
	802.11n(HT20)	16.50	44.67	No	No	No	No	No	No
	802.11n(HT40)	16.50	44.67	No	No	No	No	No	No
	802.11ac(VHT20)	16.50	44.67	No	No	No	No	No	No
	802.11ac(VHT40)	16.50	44.67	No	No	No	No	No	No
	802.11ac(VHT80)	16.50	44.67	No	No	No	No	No	No
Bluetooth	Distance to User			<5mm	<10mm	<5mm	49mm	<5mm	132mm
	BR/EDR	12.80	19.05	Yes	Yes	Yes	No	Yes	No
	BLE	8.00	6.31	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

2. 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.
3. 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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 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 < 0.25dB higher than RMC12.2kbps, or reported SAR with RMC 12.2kbps setting is ≤ 1.2 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 ≤ 1.2 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 ≤ 1.2 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 ≤ 1.2 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 TEST RESULT

10.1 GSM 850

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
Up	Level1&2&3	GPRS (4slots)	Left Cheek	0	251	848.80	0.18	0.167	24.00	25.00	1.259	0.210	/
	Level1&2&3		Left Tilt	0	251	848.80	0.06	0.124	24.00	25.00	1.259	0.156	/
	Level1&2&3		Right Cheek	0	251	848.80	-0.01	0.207	24.00	25.00	1.259	0.261	1#
	Level1&2&3		Right Tilt	0	251	848.80	0.18	0.189	24.00	25.00	1.259	0.238	/
Down	Off	GPRS (4slots)	Left Cheek	0	251	848.80	0.09	0.102	27.19	28.00	1.205	0.123	/
	Off		Left Tilt	0	251	848.80	0.12	0.053	27.19	28.00	1.205	0.064	/
	Off		Right Cheek	0	251	848.80	-0.12	0.103	27.19	28.00	1.205	0.124	/
	Off		Right Tilt	0	251	848.80	-0.02	0.049	27.19	28.00	1.205	0.059	/
Body-worn Accessory&Hotspot													
Up	Off	GPRS (4slots)	Front Side	10	251	848.80	0.16	0.031	27.19	28.00	1.205	0.037	/
	Off		Back Side	10	251	848.80	-0.13	0.049	27.19	28.00	1.205	0.059	/
	Off		Left Edge	10	251	848.80	0.13	0.016	27.19	28.00	1.205	0.019	/
	Off		Right Edge	10	251	848.80	0.18	0.018	27.19	28.00	1.205	0.022	/
	Off		Top Edge	10	251	848.80	-0.02	0.033	27.19	28.00	1.205	0.040	/
Down	Level7&8&9	GPRS (4slots)	Front Side	10	251	848.80	-0.17	0.113	25.11	26.00	1.227	0.139	/
	Level7&8&9		Back Side	10	251	848.80	-0.03	0.173	25.11	26.00	1.227	0.212	2#
	Level7&8&9		Left Edge	10	251	848.80	0.14	0.041	25.11	26.00	1.227	0.050	/
	Level7&8&9		Right Edge	10	251	848.80	0.06	0.077	25.11	26.00	1.227	0.095	/
	Level7&8&9		Bottom Edge	10	251	848.80	0.16	0.149	25.11	26.00	1.227	0.183	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.2 GSM 1900

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
Up	Level1&2&3	GPRS (3slots)	Left Cheek	0	810	1909.80	-0.05	0.162	18.15	19.00	1.216	0.197	/
	Level1&2&3		Left Tilt	0	810	1909.80	-0.12	0.207	18.15	19.00	1.216	0.252	/
	Level1&2&3		Right Cheek	0	810	1909.80	0.01	0.187	18.15	19.00	1.216	0.227	/
	Level1&2&3		Right Tilt	0	810	1909.80	0.10	0.235	18.15	19.00	1.216	0.286	3#
Down	Off	GPRS (3slots)	Left Cheek	0	810	1909.80	-0.10	0.069	26.15	27.00	1.216	0.084	/
	Off		Left Tilt	0	810	1909.80	-0.16	0.038	26.15	27.00	1.216	0.046	/
	Off		Right Cheek	0	810	1909.80	-0.12	0.052	26.15	27.00	1.216	0.063	/
	Off		Right Tilt	0	810	1909.80	0.01	0.056	26.15	27.00	1.216	0.068	/
Body-worn Accessory&Hotspot													
Up	Level4&5&6	GPRS (3slots)	Front Side	10	810	1909.80	-0.12	0.125	22.18	23.00	1.208	0.151	/
	Level4&5&6		Back Side	10	810	1909.80	0.17	0.191	22.18	23.00	1.208	0.231	/
	Level4&5&6		Left Edge	10	810	1909.80	-0.16	0.008	22.18	23.00	1.208	0.010	/
	Level4&5&6		Right Edge	10	810	1909.80	0.15	0.020	22.18	23.00	1.208	0.024	/
	Level4&5&6		Top Edge	10	810	1909.80	0.18	0.333	22.18	23.00	1.208	0.402	4#
Down	Level7&8&9	GPRS (3slots)	Front Side	10	810	1909.80	-0.12	0.078	23.14	24.00	1.219	0.095	/
	Level7&8&9		Back Side	10	810	1909.80	0.10	0.147	23.14	24.00	1.219	0.179	/
	Level7&8&9		Left Edge	10	810	1909.80	0.02	0.033	23.14	24.00	1.219	0.040	/
	Level7&8&9		Right Edge	10	810	1909.80	-0.14	0.023	23.14	24.00	1.219	0.028	/
	Level7&8&9		Bottom Edge	10	661	1880.00	0.04	0.230	23.14	24.00	1.219	0.280	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.3 WCDMA Band 2

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
Up	Level1&2&3	RMC	Left Cheek	0	9538	1907.60	-0.18	0.324	15.58	16.00	1.102	0.357	/
	Level1&2&3		Left Tilt	0	9538	1907.60	0.05	0.415	15.58	16.00	1.102	0.457	/
	Level1&2&3		Right Cheek	0	9538	1907.60	-0.19	0.374	15.58	16.00	1.102	0.412	/
	Level1&2&3		Right Tilt	0	9538	1907.60	-0.11	0.469	15.58	16.00	1.102	0.517	5#
Down	Off	RMC	Left Cheek	0	9538	1907.60	0.12	0.058	24.54	25.00	1.112	0.064	/
	Off		Left Tilt	0	9538	1907.60	-0.14	0.045	24.54	25.00	1.112	0.050	/
	Off		Right Cheek	0	9538	1907.60	0.04	0.058	24.54	25.00	1.112	0.064	/
	Off		Right Tilt	0	9538	1907.60	-0.16	0.057	24.54	25.00	1.112	0.063	/
Body-worn Accessory&Hotspot													
Up	Level4&5&6	RMC	Front Side	10	9538	1907.60	0.18	0.150	16.47	17.00	1.130	0.169	/
	Level4&5&6		Back Side	10	9538	1907.60	-0.03	0.214	16.47	17.00	1.130	0.242	/
	Level4&5&6		Left Edge	10	9538	1907.60	0.09	0.007	16.47	17.00	1.130	0.008	/
	Level4&5&6		Right Edge	10	9538	1907.60	0.08	0.029	16.47	17.00	1.130	0.033	/
	Level4&5&6		Top Edge	10	9538	1907.60	0.05	0.251	16.47	17.00	1.130	0.284	6#
Down	Level7&8&9	RMC	Front Side	10	9538	1907.60	-0.14	0.075	20.55	21.00	1.109	0.083	/
	Level7&8&9		Back Side	10	9538	1907.60	0.18	0.121	20.55	21.00	1.109	0.134	/
	Level7&8&9		Left Edge	10	9538	1907.60	-0.06	0.043	20.55	21.00	1.109	0.048	/
	Level7&8&9		Right Edge	10	9538	1907.60	-0.02	0.031	20.55	21.00	1.109	0.034	/
	Level7&8&9		Bottom Edge	10	9538	1907.60	0.13	0.223	20.55	21.00	1.109	0.247	/
Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Product Specific 10g (0mm)													
Up	Level4&5&6	RMC	Front Side	0	9538	1907.60	0.08	0.209	16.47	17.00	1.130	0.236	/
	Level4&5&6		Back Side	0	9538	1907.60	-0.14	0.339	16.47	17.00	1.130	0.383	/
	Level4&5&6		Left Edge	0	9538	1907.60	-0.07	0.013	16.47	17.00	1.130	0.015	/
	Level4&5&6		Right Edge	0	9538	1907.60	0.02	0.052	16.47	17.00	1.130	0.059	/
	Level4&5&6		Top Edge	0	9538	1907.60	0.18	0.984	16.47	17.00	1.130	1.112	7#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.4 WCDMA Band 4

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
Up	Level1&2&3	RMC	Left Cheek	0	1513	1752.60	-0.13	0.189	15.38	16.00	1.153	0.218	/
	Level1&2&3		Left Tilt	0	1513	1752.60	0.14	0.241	15.38	16.00	1.153	0.278	/
	Level1&2&3		Right Cheek	0	1513	1752.60	-0.03	0.207	15.38	16.00	1.153	0.239	/
	Level1&2&3		Right Tilt	0	1513	1752.60	-0.18	0.287	15.38	16.00	1.153	0.331	8#
Down	Off	RMC	Left Cheek	0	1513	1752.60	-0.06	0.063	24.41	25.00	1.146	0.072	/
	Off		Left Tilt	0	1513	1752.60	0.17	0.058	24.41	25.00	1.146	0.066	/
	Off		Right Cheek	0	1513	1752.60	-0.15	0.058	24.41	25.00	1.146	0.066	/
	Off		Right Tilt	0	1513	1752.60	-0.09	0.056	24.41	25.00	1.146	0.064	/
Body-worn Accessory&Hotspot													
Up	Level4&5&6	RMC	Front Side	10	1513	1752.60	0.07	0.057	16.44	17.00	1.138	0.065	/
	Level4&5&6		Back Side	10	1513	1752.60	-0.07	0.076	16.44	17.00	1.138	0.086	/
	Level4&5&6		Left Edge	10	1513	1752.60	-0.07	0.008	16.44	17.00	1.138	0.009	/
	Level4&5&6		Right Edge	10	1513	1752.60	-0.15	0.013	16.44	17.00	1.138	0.015	/
	Level4&5&6		Top Edge	10	1513	1752.60	-0.06	0.126	16.44	17.00	1.138	0.143	/
Down	Level7&8&9	RMC	Front Side	10	1513	1752.60	-0.14	0.051	20.40	21.00	1.148	0.059	/
	Level7&8&9		Back Side	10	1513	1752.60	-0.05	0.150	20.40	21.00	1.148	0.172	/
	Level7&8&9		Left Edge	10	1513	1752.60	-0.15	0.039	20.40	21.00	1.148	0.045	/
	Level7&8&9		Right Edge	10	1513	1752.60	-0.02	0.032	20.40	21.00	1.148	0.037	/
	Level7&8&9		Bottom Edge	10	1513	1752.60	-0.06	0.159	20.40	21.00	1.148	0.183	9#
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.5WCDMA Band 5

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
Up	Level1&2&3	RMC	Left Cheek	0	4233	846.60	-0.17	0.230	21.14	22.00	1.219	0.280	/
	Level1&2&3		Left Tilt	0	4233	846.60	0.17	0.171	21.14	22.00	1.219	0.208	/
	Level1&2&3		Right Cheek	0	4233	846.60	-0.03	0.286	21.14	22.00	1.219	0.349	10#
	Level1&2&3		Right Tilt	0	4233	846.60	-0.05	0.260	21.14	22.00	1.219	0.317	/
Down	Off	RMC	Left Cheek	0	4233	846.60	0.09	0.132	24.14	25.00	1.219	0.161	/
	Off		Left Tilt	0	4233	846.60	0.09	0.063	24.14	25.00	1.219	0.076	/
	Off		Right Cheek	0	4233	846.60	-0.08	0.113	24.14	25.00	1.219	0.138	/
	Off		Right Tilt	0	4233	846.60	-0.17	0.059	24.14	25.00	1.219	0.072	/
Body-worn Accessory&Hotspot													
Up	Off	RMC	Front Side	10	4233	846.60	-0.12	0.091	24.14	25.00	1.219	0.111	/
	Off		Back Side	10	4233	846.60	-0.06	0.104	24.14	25.00	1.219	0.127	/
	Off		Left Edge	10	4233	846.60	-0.15	0.054	24.14	25.00	1.219	0.066	/
	Off		Right Edge	10	4233	846.60	0.01	0.058	24.14	25.00	1.219	0.071	/
	Off		Top Edge	10	4233	846.60	-0.06	0.097	24.14	25.00	1.219	0.118	/
Down	Level7&8&9	RMC	Front Side	10	4233	846.60	0.03	0.089	22.16	23.00	1.213	0.108	/
	Level7&8&9		Back Side	10	4233	846.60	0.04	0.122	22.16	23.00	1.213	0.148	11#
	Level7&8&9		Left Edge	10	4233	846.60	-0.02	0.027	22.16	23.00	1.213	0.033	/
	Level7&8&9		Right Edge	10	4233	846.60	0.09	0.068	22.16	23.00	1.213	0.083	/
	Level7&8&9		Bottom Edge	10	4233	846.60	0.03	0.110	22.16	23.00	1.213	0.133	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.													

10.6LTE Band 2 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Up	Level1&2&3	QPSK	Left Cheek	0	18900	1880	1	High	0.06	0.274	14.30	15.00	1.175	0.322	/
	Level1&2&3			0	18900	1880	50	Low	-0.02	0.265	14.38	15.00	1.153	0.306	/
	Level1&2&3		Left Tilt	0	18900	1880	1	High	0.03	0.349	14.30	15.00	1.175	0.410	/
	Level1&2&3			0	18900	1880	50	Low	0.01	0.338	14.38	15.00	1.153	0.390	/
	Level1&2&3		Right Cheek	0	18900	1880	1	High	0.00	0.315	14.30	15.00	1.175	0.370	/
	Level1&2&3			0	18900	1880	50	Low	-0.14	0.305	14.38	15.00	1.153	0.352	/
	Level1&2&3		Right Tilt	0	18900	1880	1	High	-0.03	0.406	14.30	15.00	1.175	0.477	12#
	Level1&2&3			0	18900	1880	50	Low	-0.11	0.394	14.38	15.00	1.153	0.454	/
Up	Off	QPSK	Left Cheek	0	18900	1880	1	High	-0.13	0.078	24.23	25.00	1.194	0.093	/
	Off			0	18900	1880	50	Low	0.12	0.072	23.37	24.00	1.156	0.083	/
	Off		Left Tilt	0	18900	1880	1	High	-0.13	0.065	24.23	25.00	1.194	0.078	/
	Off			0	18900	1880	50	Low	0.03	0.058	23.37	24.00	1.156	0.067	/
	Off		Right Cheek	0	18900	1880	1	High	-0.02	0.059	24.23	25.00	1.194	0.070	/
	Off			0	18900	1880	50	Low	0.12	0.051	23.37	24.00	1.156	0.059	/
	Off		Right Tilt	0	18900	1880	1	High	-0.01	0.062	24.23	25.00	1.194	0.074	/
	Off			0	18900	1880	50	Low	0.06	0.058	23.37	24.00	1.156	0.067	/
Body-worn Accessory&Hotspot															
Up	Level4&5&6	QPSK	Front Side	10	18900	1880	1	High	0.09	0.155	17.33	18.00	1.167	0.181	/
	Level4&5&6			10	18900	1880	50	Low	0.16	0.149	17.38	18.00	1.153	0.172	/
	Level4&5&6		Back Side	10	18900	1880	1	High	-0.01	0.213	17.33	18.00	1.167	0.249	/
	Level4&5&6			10	18900	1880	50	Low	-0.04	0.208	17.38	18.00	1.153	0.240	/
	Level4&5&6		Left Edge	10	18900	1880	1	High	-0.16	0.005	17.33	18.00	1.167	0.006	/
	Level4&5&6			10	18900	1880	50	Low	0.12	0.004	17.38	18.00	1.153	0.005	/
	Level4&5&6		Right Edge	10	18900	1880	1	High	0.10	0.043	17.33	18.00	1.167	0.050	/
	Level4&5&6			10	18900	1880	50	Low	0.17	0.040	17.38	18.00	1.153	0.046	/
	Level4&5&6		Top Edge	10	18900	1880	1	High	-0.11	0.319	17.33	18.00	1.167	0.372	13#
	Level4&5&6			10	18900	1880	50	Low	0.17	0.311	17.38	18.00	1.153	0.359	/
Down	Level7&8&9	QPSK	Front Side	10	18900	1880	1	High	-0.02	0.070	19.25	20.00	1.189	0.083	/
	Level7&8&9			10	18900	1880	50	Low	0.04	0.068	19.39	20.00	1.151	0.078	/
	Level7&8&9		Back Side	10	18900	1880	1	High	-0.09	0.111	19.25	20.00	1.189	0.132	/
	Level7&8&9			10	18900	1880	50	Low	-0.05	0.106	19.39	20.00	1.151	0.122	/
	Level7&8&9		Left Edge	10	18900	1880	1	High	-0.10	0.054	19.25	20.00	1.189	0.064	/
	Level7&8&9			10	18900	1880	50	Low	-0.05	0.050	19.39	20.00	1.151	0.058	/
	Level7&8&9		Right Edge	10	18900	1880	1	High	-0.08	0.041	19.25	20.00	1.189	0.049	/
	Level7&8&9			10	18900	1880	50	Low	0.00	0.039	19.39	20.00	1.151	0.045	/
	Level7&8&9		Bottom Edge	10	18900	1880	1	High	-0.05	0.260	19.25	20.00	1.189	0.309	/
	Level7&8&9			10	18900	1880	50	Low	-0.14	0.258	19.39	20.00	1.151	0.297	/

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.
Product Specific 10g (0mm)															
Up	Level4&5&6	QPSK	Front Side	0	18900	1880	1	High	-0.01	0.500	17.33	18.00	1.167	0.583	/
	Level4&5&6			0	18900	1880	50	Low	0.06	0.482	17.38	18.00	1.153	0.556	/
	Level4&5&6		Back Side	0	18900	1880	1	High	-0.06	0.506	17.33	18.00	1.167	0.590	/
	Level4&5&6			0	18900	1880	50	Low	-0.13	0.498	17.38	18.00	1.153	0.574	/
	Level4&5&6		Left Edge	0	18900	1880	1	High	0.05	0.019	17.33	18.00	1.167	0.022	/
	Level4&5&6			0	18900	1880	50	Low	0.17	0.016	17.38	18.00	1.153	0.018	/
	Level4&5&6		Right Edge	0	18900	1880	1	High	0.00	0.073	17.33	18.00	1.167	0.085	/
	Level4&5&6			0	18900	1880	50	Low	-0.04	0.068	17.38	18.00	1.153	0.078	/
	Level4&5&6		Top Edge	0	18900	1880	1	High	0.18	1.320	17.33	18.00	1.167	1.540	14#
	Level4&5&6			0	18900	1880	50	Low	0.04	1.120	17.38	18.00	1.153	1.292	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.7LTE Band 4 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Up	Level1&2&3	QPSK	Left Cheek	0	20175	1732.5	1	Low	0.12	0.151	14.21	15.00	1.199	0.181	/
	Level1&2&3			0	20175	1732.5	50	Mid	0.06	0.149	14.26	15.00	1.186	0.177	/
	Level1&2&3		Left Tilt	0	20175	1732.5	1	Low	-0.04	0.193	14.21	15.00	1.199	0.232	/
	Level1&2&3			0	20175	1732.5	50	Mid	0.16	0.186	14.26	15.00	1.186	0.221	/
	Level1&2&3		Right Cheek	0	20175	1732.5	1	Low	0.05	0.166	14.21	15.00	1.199	0.199	/
	Level1&2&3			0	20175	1732.5	50	Mid	0.15	0.159	14.26	15.00	1.186	0.189	/
	Level1&2&3		Right Tilt	0	20175	1732.5	1	Low	0.06	0.218	14.21	15.00	1.199	0.261	15#
Level1&2&3	0	20175		1732.5	50	Mid	-0.15	0.210	14.26	15.00	1.186	0.249	/		
Up	Off	QPSK	Left Cheek	0	20175	1732.5	1	Low	-0.13	0.061	24.14	25.00	1.219	0.074	/
	Off			0	20175	1732.5	50	Mid	0.02	0.057	23.38	24.00	1.153	0.066	/
	Off		Left Tilt	0	20175	1732.5	1	Low	0.01	0.053	24.14	25.00	1.219	0.065	/
	Off			0	20175	1732.5	50	Mid	0.00	0.049	23.38	24.00	1.153	0.057	/
	Off		Right Cheek	0	20175	1732.5	1	Low	-0.05	0.054	24.14	25.00	1.219	0.066	/
	Off			0	20175	1732.5	50	Mid	-0.09	0.048	23.38	24.00	1.153	0.055	/
	Off		Right Tilt	0	20175	1732.5	1	Low	0.06	0.055	24.14	25.00	1.219	0.067	/
Off	0	20175		1732.5	50	Mid	-0.17	0.049	23.38	24.00	1.153	0.057	/		
Body-worn Accessory&Hotspot															
Up	Level4&5&6	QPSK	Front Side	10	20175	1732.5	1	Low	0.08	0.143	19.27	20.00	1.183	0.169	/
	Level4&5&6			10	20175	1732.5	50	Mid	-0.13	0.137	19.21	20.00	1.199	0.164	/
	Level4&5&6		Back Side	10	20175	1732.5	1	Low	0.04	0.198	19.27	20.00	1.183	0.234	/
	Level4&5&6			10	20175	1732.5	50	Mid	0.02	0.192	19.21	20.00	1.199	0.230	/

	Level4&5&6		Left Edge	10	20175	1732.5	1	Low	0.08	0.026	19.27	20.00	1.183	0.031	/
	Level4&5&6			10	20175	1732.5	50	Mid	-0.06	0.024	19.21	20.00	1.199	0.029	/
	Level4&5&6		Right Edge	10	20175	1732.5	1	Low	0.09	0.037	19.27	20.00	1.183	0.044	/
	Level4&5&6			10	20175	1732.5	50	Mid	-0.18	0.038	19.21	20.00	1.199	0.046	/
	Level4&5&6		Top Edge	10	20175	1732.5	1	Low	0.18	0.284	19.27	20.00	1.183	0.336	16#
	Level4&5&6			10	20175	1732.5	50	Mid	-0.11	0.275	19.21	20.00	1.199	0.330	/
Down	Level7&8&9	QPSK	Front Side	10	20175	1732.5	1	Low	-0.15	0.076	21.22	22.00	1.197	0.091	/
	Level7&8&9			10	20175	1732.5	50	Mid	-0.16	0.078	21.26	22.00	1.186	0.092	/
	Level7&8&9		Back Side	10	20175	1732.5	1	Low	-0.12	0.211	21.22	22.00	1.197	0.253	/
	Level7&8&9			10	20175	1732.5	50	Mid	-0.01	0.219	21.26	22.00	1.186	0.260	/
	Level7&8&9		Left Edge	10	20175	1732.5	1	Low	0.05	0.030	21.22	22.00	1.197	0.036	/
	Level7&8&9			10	20175	1732.5	50	Mid	-0.06	0.033	21.26	22.00	1.186	0.039	/
	Level7&8&9		Right Edge	10	20175	1732.5	1	Low	0.05	0.039	21.22	22.00	1.197	0.047	/
	Level7&8&9			10	20175	1732.5	50	Mid	-0.13	0.039	21.26	22.00	1.186	0.046	/
	Level7&8&9		Bottom Edge	10	20175	1732.5	1	Low	0.16	0.261	21.22	22.00	1.197	0.312	/
	Level7&8&9			10	20175	1732.5	50	Mid	0.15	0.263	21.26	22.00	1.186	0.312	/

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

10.8LTE Band 7 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Up	Level1&2&3	QPSK	Left Cheek	0	21100	2535	1	Mid	-0.10	0.365	14.40	15.00	1.148	0.419	/
	Level1&2&3			0	21100	2535	50	Mid	-0.08	0.359	14.42	15.00	1.143	0.410	/
	Level1&2&3		Left Tilt	0	21100	2535	1	Mid	0.06	0.443	14.40	15.00	1.148	0.509	/
	Level1&2&3			0	21100	2535	50	Mid	-0.13	0.438	14.42	15.00	1.143	0.501	/
	Level1&2&3		Right Cheek	0	21100	2535	1	Mid	0.18	0.536	14.40	15.00	1.148	0.615	/
	Level1&2&3			0	21100	2535	50	Mid	-0.16	0.522	14.42	15.00	1.143	0.597	/
	Level1&2&3		Right Tilt	0	21100	2535	1	Mid	-0.04	0.650	14.40	15.00	1.148	0.746	17#
	Level1&2&3			0	21100	2535	50	Mid	0.04	0.649	14.42	15.00	1.143	0.742	/
Up	Off	QPSK	Left Cheek	0	21100	2535	1	Mid	-0.01	0.062	24.38	25.00	1.153	0.072	/
	Off			0	21100	2535	50	Low	-0.09	0.058	23.56	24.00	1.107	0.064	/
	Off		Left Tilt	0	21100	2535	1	Mid	-0.18	0.047	24.28	25.00	1.180	0.055	/
	Off			0	21100	2535	50	Low	0.12	0.043	23.56	24.00	1.107	0.048	/
	Off		Right Cheek	0	21100	2535	1	Mid	-0.08	0.079	24.28	25.00	1.180	0.093	/
	Off			0	21100	2535	50	Low	-0.07	0.072	23.56	24.00	1.107	0.080	/
	Off		Right Tilt	0	21100	2535	1	Mid	0.09	0.051	24.28	25.00	1.180	0.060	/
	Off			0	21100	2535	50	Low	0.19	0.046	23.56	24.00	1.107	0.051	/
Worse case for Head CA															
Up	Level1&2&3	QPSK	Right Tilt	0	PCC 21100 +SCC 20902	2535 +2515.2	PCC 1+ SCC 1	Low + High	0.13	0.521	13.22	14.00	1.197	0.624	/
Body-worn Accessory&Hotspot															
Up	Level4&5&6	QPSK	Front Side	10	21100	2535	1	Mid	0.16	0.256	17.38	18.00	1.153	0.295	/
	Level4&5&6			10	21100	2535	50	Mid	-0.13	0.248	17.35	18.00	1.161	0.288	/
	Level4&5&6		Back Side	10	21100	2535	1	Mid	0.18	0.796	17.38	18.00	1.153	0.918	18#
	Level4&5&6			10	20850	2510	1	Low	-0.07	0.783	17.33	18.00	1.167	0.914	/
	Level4&5&6			10	21350	2560	1	Mid	0.05	0.792	17.37	18.00	1.156	0.916	/
	Level4&5&6			10	21100	2535	50	Mid	-0.02	0.784	17.35	18.00	1.161	0.911	/
	Level4&5&6			10	20850	2510	50	Mid	0.11	0.759	17.22	18.00	1.197	0.908	/
	Level4&5&6			10	21350	2560	50	Mid	0.18	0.760	17.27	18.00	1.183	0.899	/
	Level4&5&6			10	20850	2510	100	Low	-0.04	0.758	17.33	18.00	1.167	0.884	/
	Level4&5&6			Left Edge	10	21100	2535	1	Mid	-0.06	0.023	17.38	18.00	1.153	0.027
	Level4&5&6		10		21100	2535	50	Mid	-0.15	0.022	17.35	18.00	1.161	0.026	/
	Level4&5&6		Right Edge	10	21100	2535	1	Mid	0.04	0.075	17.38	18.00	1.153	0.087	/
	Level4&5&6			10	21100	2535	50	Mid	-0.06	0.069	17.35	18.00	1.161	0.080	/
	Level4&5&6		Top Edge	10	21100	2535	1	Mid	0.18	0.759	17.38	18.00	1.153	0.875	/
	Level4&5&6			10	20850	2510	1	Low	0.03	0.743	17.33	18.00	1.167	0.867	/
	Level4&5&6			10	21350	2560	1	Mid	0.15	0.751	17.37	18.00	1.156	0.868	/
Level4&5&6	10	21100		2535	50	Mid	-0.16	0.746	17.35	18.00	1.161	0.866	/		

	Level4&5&6			10	20850	2510	50	Mid	0.03	0.728	17.22	18.00	1.197	0.871	/
	Level4&5&6			10	21350	2560	50	Mid	-0.08	0.735	17.27	18.00	1.183	0.870	/
	Level4&5&6			10	20850	2510	100	Low	0.17	0.714	17.33	18.00	1.167	0.833	/
Down	Level7&8&9	QPSK	Front Side	10	21100	2535	1	Mid	0.03	0.199	21.33	22.00	1.167	0.232	/
	Level7&8&9			10	21100	2535	50	Low	0.10	0.188	21.38	22.00	1.153	0.217	/
	Level7&8&9		Back Side	10	21100	2535	1	Mid	-0.01	0.279	21.33	22.00	1.167	0.326	/
	Level7&8&9			10	21100	2535	1	Low	-0.15	0.269	21.38	22.00	1.153	0.310	/
	Level7&8&9		Left Edge	10	21100	2535	1	Mid	-0.01	0.173	21.33	22.00	1.167	0.202	/
	Level7&8&9			10	21100	2535	50	Low	0.18	0.166	21.38	22.00	1.153	0.191	/
	Level7&8&9		Right Edge	10	21100	2535	1	Mid	-0.18	0.037	21.33	22.00	1.167	0.043	/
	Level7&8&9			10	21100	2535	50	Low	0.08	0.033	21.38	22.00	1.153	0.038	/
	Level7&8&9		Bottom Edge	10	21100	2535	1	Mid	0.05	0.180	21.33	22.00	1.167	0.210	/
	Level7&8&9			10	21100	2535	1	Low	-0.03	0.172	21.38	22.00	1.153	0.198	/

Worse case for Body-worn Accessory&Hotspot CA

Up	Level4&5&6	QPSK	Back Side	10	PCC 21100 +SCC 20902	2535 +2515. 2	PCC 1+ SCC 1	Low + High	0.04	0.645	16.24	17.00	1.191	0.768	/
Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.

Product Specific 10g (0mm)

Up	Level4&5&6	QPSK	Front Side	0	21100	2535	1	Mid	-0.04	1.310	17.38	18.00	1.153	1.511	/
	Level4&5&6			0	21100	2535	50	Mid	-0.16	1.280	17.35	18.00	1.161	1.487	/
	Level4&5&6		Back Side	0	21100	2535	1	Mid	0.04	1.530	17.38	18.00	1.153	1.765	19#
	Level4&5&6			0	21100	2535	50	Mid	0.18	1.480	17.35	18.00	1.161	1.719	/
	Level4&5&6		Left Edge	0	21100	2535	1	Mid	0.15	0.045	17.38	18.00	1.153	0.052	/
	Level4&5&6			0	21100	2535	50	Mid	0.02	0.042	17.35	18.00	1.161	0.049	/
	Level4&5&6		Right Edge	0	21100	2535	1	Mid	-0.17	0.229	17.38	18.00	1.153	0.264	/
	Level4&5&6			0	21100	2535	50	Mid	0.02	0.218	17.35	18.00	1.161	0.253	/
	Level4&5&6		Top Edge	0	21100	2535	1	Mid	-0.06	0.885	17.38	18.00	1.153	1.021	/
	Level4&5&6			0	21100	2535	50	Mid	0.10	0.870	17.35	18.00	1.161	1.010	/

Worse case for Product Specific 10g (0mm) CA

Up	Level4&5&6	QPSK	Back Side	0	PCC 21100 +SCC 20902	2535 +2515. 2	PCC 1+ SCC 1	Low + High	-0.02	1.265	16.24	17.00	1.191	1.507	/
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Note: Refer to ANNEX C for the detailed test data for each test configuration.

10.9LTE Band 12 (10MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	1g Scaled SAR	Meas. No.
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										kg)	Bm)	(W/kg)			
Head															
Up	Level1&2&3	QPSK	Left Cheek	0	23060	704	1	High	-0.16	0.073	20.16	21.00	1.213	0.089	/
	Level1&2&3			0	23060	704	25	Mid	0.07	0.069	20.15	21.00	1.216	0.084	/
	Level1&2&3		Left Tilt	0	23060	704	1	High	-0.10	0.054	20.16	21.00	1.213	0.066	/
	Level1&2&3			0	23060	704	25	Mid	-0.15	0.051	20.15	21.00	1.216	0.062	/
	Level1&2&3		Right Cheek	0	23060	704	1	High	0.13	0.093	20.16	21.00	1.213	0.113	20#
	Level1&2&3			0	23060	704	25	Mid	-0.18	0.086	20.15	21.00	1.216	0.105	/
	Level1&2&3		Right Tilt	0	23060	704	1	High	0.18	0.081	20.16	21.00	1.213	0.098	/
	Level1&2&3			0	23060	704	25	Mid	0.15	0.080	20.15	21.00	1.216	0.097	/
Up	Off	QPSK	Left Cheek	0	23060	704	1	High	0.01	0.090	24.05	25.00	1.245	0.112	/
	Off			0	23060	704	25	High	0.15	0.083	23.31	24.00	1.172	0.097	/
	Off		Left Tilt	0	23060	704	1	High	0.01	0.074	24.05	25.00	1.245	0.092	/
	Off			0	23060	704	25	High	-0.09	0.068	23.31	24.00	1.172	0.080	/
	Off		Right Cheek	0	23060	704	1	High	-0.03	0.087	24.05	25.00	1.245	0.108	/
	Off			0	23060	704	25	High	0.15	0.080	23.31	24.00	1.172	0.094	/
	Off		Right Tilt	0	23060	704	1	High	-0.05	0.058	24.05	25.00	1.245	0.072	/
	Off			0	23060	704	25	High	0.09	0.051	23.31	24.00	1.172	0.060	/
Body-worn Accessory&Hotspot															
Up	Off	QPSK	Front Side	10	23060	704	1	High	-0.05	0.039	24.05	25.00	1.245	0.049	/
	Off			10	23060	704	25	High	0.14	0.032	23.31	24.00	1.172	0.038	/
	Off		Back Side	10	23060	704	1	High	-0.01	0.053	24.05	25.00	1.245	0.066	/
	Off			10	23060	704	25	High	-0.15	0.048	23.31	24.00	1.172	0.056	/
	Off		Left Edge	10	23060	704	1	High	-0.07	0.019	24.05	25.00	1.245	0.024	/
	Off			10	23060	704	25	High	0.11	0.015	23.31	24.00	1.172	0.018	/
	Off		Right Edge	10	23060	704	1	High	0.14	0.023	24.05	25.00	1.245	0.029	/
	Off			10	23060	704	25	High	0.02	0.021	23.31	24.00	1.172	0.025	/
	Off		Top Edge	10	23060	704	1	High	-0.19	0.035	24.05	25.00	1.245	0.044	/
	Off			10	23060	704	25	High	0.15	0.031	23.31	24.00	1.172	0.036	/
Down	Level7&8&9	QPSK	Front Side	10	23060	704	1	High	-0.15	0.127	22.23	23.00	1.194	0.152	/
	Level7&8&9			10	23060	704	25	Mid	-0.06	0.118	22.27	23.00	1.183	0.140	/
	Level7&8&9		Back Side	10	23060	704	1	High	0.01	0.192	22.23	23.00	1.194	0.229	21#
	Level7&8&9			10	23060	704	25	Mid	0.10	0.183	22.27	23.00	1.183	0.216	/
	Level7&8&9		Left Edge	10	23060	704	1	High	-0.08	0.071	22.23	23.00	1.194	0.085	/
	Level7&8&9			10	23060	704	25	Mid	0.11	0.070	22.27	23.00	1.183	0.083	/
	Level7&8&9		Right Edge	10	23060	704	1	High	-0.07	0.069	22.23	23.00	1.194	0.082	/
	Level7&8&9			10	23060	704	25	Mid	0.14	0.067	22.27	23.00	1.183	0.079	/
	Level7&8&9		Bottom Edge	10	23060	704	1	High	-0.07	0.092	22.23	23.00	1.194	0.110	/
	Level7&8&9			10	23060	704	25	Mid	0.17	0.088	22.27	23.00	1.183	0.104	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.10 LTE Band 26 (15MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Up	Level1&2&3	QPSK	Left Cheek	0	26965	841.5	1	Low	0.05	0.253	19.97	21.00	1.268	0.321	/
	Level1&2&3			0	26965	841.5	36	Low	0.01	0.241	19.99	21.00	1.262	0.304	/
	Level1&2&3		Left Tilt	0	26965	841.5	1	Low	0.04	0.188	19.97	21.00	1.268	0.238	/
	Level1&2&3			0	26965	841.5	36	Low	0.10	0.179	19.99	21.00	1.262	0.226	/
	Level1&2&3		Right Cheek	0	26965	841.5	1	Low	0.04	0.315	19.97	21.00	1.268	0.399	22#
	Level1&2&3			0	26965	841.5	36	Low	-0.08	0.312	19.99	21.00	1.262	0.394	/
	Level1&2&3		Right Tilt	0	26965	841.5	1	Low	-0.09	0.287	19.97	21.00	1.268	0.364	/
	Level1&2&3			0	26965	841.5	36	Low	-0.06	0.279	19.99	21.00	1.262	0.352	/
Up	Off	QPSK	Left Cheek	0	26965	841.5	1	Low	-0.19	0.153	23.87	25.00	1.297	0.198	/
	Off			0	26965	841.5	36	Low	-0.03	0.139	23.01	24.00	1.256	0.175	/
	Off		Left Tilt	0	26965	841.5	1	Low	0.03	0.081	23.87	25.00	1.297	0.105	/
	Off			0	26965	841.5	36	Low	0.02	0.075	23.01	24.00	1.256	0.094	/
	Off		Right Cheek	0	26965	841.5	1	Low	0.18	0.128	23.87	25.00	1.297	0.166	/
	Off			0	26965	841.5	36	Low	0.12	0.108	23.01	24.00	1.256	0.136	/
	Off		Right Tilt	0	26965	841.5	1	Low	0.07	0.068	23.87	25.00	1.297	0.088	/
	Off			0	26965	841.5	36	Low	0.12	0.052	23.01	24.00	1.256	0.065	/
Body-worn Accessory&Hotspot															
Up	Off	QPSK	Front Side	10	26965	841.5	1	Low	0.08	0.079	23.87	25.00	1.297	0.102	/
	Off			10	26965	841.5	36	Low	0.12	0.070	23.01	24.00	1.256	0.088	/
	Off		Back Side	10	26965	841.5	1	Low	-0.02	0.136	23.87	25.00	1.297	0.176	23#
	Off			10	26965	841.5	36	Low	0.16	0.135	23.01	24.00	1.256	0.170	/
	Off		Left Edge	10	26965	841.5	1	Low	0.19	0.020	23.87	25.00	1.297	0.026	/
	Off			10	26965	841.5	36	Low	0.18	0.017	23.01	24.00	1.256	0.021	/
	Off		Right Edge	10	26965	841.5	1	Low	-0.09	0.025	23.87	25.00	1.297	0.032	/
	Off			10	26965	841.5	36	Low	-0.15	0.022	23.01	24.00	1.256	0.028	/
	Off		Top Edge	10	26965	841.5	1	Low	-0.07	0.085	23.87	25.00	1.297	0.110	/
	Off			10	26965	841.5	36	Low	0.06	0.076	23.01	24.00	1.256	0.095	/
Down	Level7&8&9	QPSK	Front Side	10	26965	841.5	1	Low	-0.16	0.075	22.28	23.00	1.180	0.089	/
	Level7&8&9			10	26965	841.5	36	Low	0.02	0.066	22.30	23.00	1.175	0.078	/
	Level7&8&9		Back Side	10	26965	841.5	1	Low	0.09	0.122	22.28	23.00	1.180	0.144	/
	Level7&8&9			10	26965	841.5	36	Low	0.10	0.115	22.30	23.00	1.175	0.135	/
	Level7&8&9		Left Edge	10	26965	841.5	1	Low	-0.01	0.053	22.28	23.00	1.180	0.063	/
	Level7&8&9			10	26965	841.5	36	Low	0.04	0.048	22.30	23.00	1.175	0.056	/
	Level7&8&9		Right Edge	10	26965	841.5	1	Low	-0.16	0.054	22.28	23.00	1.180	0.064	/
	Level7&8&9			10	26965	841.5	36	Low	0.14	0.054	22.30	23.00	1.175	0.063	/
	Level7&8&9		Bottom Edge	10	26965	841.5	1	Low	0.12	0.095	22.28	23.00	1.180	0.112	/
	Level7&8&9			10	26965	841.5	36	Low	0.02	0.093	22.30	23.00	1.175	0.109	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.11 LTE Band 66 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Up	Level1&2&3	QPSK	Left Cheek	0	132322	1745	1	Low	-0.02	0.164	15.40	16.00	1.148	0.188	/
	Level1&2&3			0	132322	1745	50	Low	0.17	0.159	15.43	16.00	1.140	0.181	/
	Level1&2&3		Left Tilt	0	132322	1745	1	Low	0.10	0.210	15.40	16.00	1.148	0.241	/
	Level1&2&3			0	132322	1745	50	Low	-0.04	0.205	15.43	16.00	1.140	0.234	/
	Level1&2&3		Right Cheek	0	132322	1745	1	Low	-0.08	0.181	15.40	16.00	1.148	0.208	/
	Level1&2&3			0	132322	1745	50	Low	-0.05	0.179	15.43	16.00	1.140	0.204	/
	Level1&2&3		Right Tilt	0	132322	1745	1	Low	0.01	0.238	15.40	16.00	1.148	0.273	24#
	Level1&2&3			0	132322	1745	50	Low	0.00	0.231	15.43	16.00	1.140	0.263	/
Up	Off	QPSK	Left Cheek	0	132322	1745	1	Low	-0.17	0.065	24.03	25.00	1.250	0.081	/
	Off			0	132322	1745	50	Low	-0.06	0.061	23.14	24.00	1.219	0.074	/
	Off		Left Tilt	0	132322	1745	1	Low	-0.09	0.060	24.03	25.00	1.250	0.075	/
	Off			0	132322	1745	50	Low	0.06	0.054	23.14	24.00	1.219	0.066	/
	Off		Right Cheek	0	132322	1745	1	Low	0.15	0.061	24.03	25.00	1.250	0.076	/
	Off			0	132322	1745	50	Low	0.05	0.057	23.14	24.00	1.219	0.069	/
	Off		Right Tilt	0	132322	1745	1	Low	-0.10	0.058	24.03	25.00	1.250	0.073	/
	Off			0	132322	1745	50	Low	-0.13	0.053	23.14	24.00	1.219	0.065	/
Body-worn Accessory&Hotspot															
Up	Level4&5&6	QPSK	Front Side	10	132322	1745	1	Low	0.06	0.163	20.49	21.00	1.125	0.183	/
	Level4&5&6			10	132322	1745	50	Low	0.10	0.156	20.49	21.00	1.125	0.175	/
	Level4&5&6		Back Side	10	132322	1745	1	Low	-0.07	0.228	20.49	21.00	1.125	0.256	/
	Level4&5&6			10	132322	1745	50	Low	0.05	0.219	20.49	21.00	1.125	0.246	/
	Level4&5&6		Left Edge	10	132322	1745	1	Low	-0.15	0.030	20.49	21.00	1.125	0.034	/
	Level4&5&6			10	132322	1745	50	Low	0.13	0.027	20.49	21.00	1.125	0.030	/
	Level4&5&6		Right Edge	10	132322	1745	1	Low	-0.06	0.043	20.49	21.00	1.125	0.048	/
	Level4&5&6			10	132322	1745	50	Low	-0.01	0.042	20.49	21.00	1.125	0.047	/
	Level4&5&6		Top Edge	10	132322	1745	1	Low	0.09	0.324	20.49	21.00	1.125	0.364	25#
	Level4&5&6			10	132322	1745	50	Low	0.14	0.319	20.49	21.00	1.125	0.359	/
Down	Level7&8&9	QPSK	Front Side	10	132322	1745	1	Low	0.17	0.077	22.46	23.00	1.132	0.087	/
	Level7&8&9			10	132322	1745	50	Low	-0.17	0.079	22.38	23.00	1.153	0.091	/
	Level7&8&9		Back Side	10	132322	1745	1	Low	0.09	0.214	22.46	23.00	1.132	0.242	/
	Level7&8&9			10	132322	1745	50	Low	0.03	0.222	22.38	23.00	1.153	0.256	/
	Level7&8&9		Left Edge	10	132322	1745	1	Low	-0.06	0.030	22.46	23.00	1.132	0.034	/
	Level7&8&9			10	132322	1745	50	Low	0.01	0.033	22.38	23.00	1.153	0.038	/
	Level7&8&9		Right Edge	10	132322	1745	1	Low	0.01	0.040	22.46	23.00	1.132	0.045	/
	Level7&8&9			10	132322	1745	50	Low	-0.02	0.040	22.38	23.00	1.153	0.046	/
	Level7&8&9		Bottom Edge	10	132322	1745	1	Low	0.05	0.265	22.46	23.00	1.132	0.300	/
	Level7&8&9			10	132322	1745	50	Low	-0.10	0.267	22.38	23.00	1.153	0.308	/
Note: Refer to ANNEX C for the detailed test data for each test configuration.															

10.12 LTE Band 41 (20MHz Bandwidth)

Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
Up	Level1&2&3	QPSK	Left Cheek	0	39750	2506	1	Low	0.07	0.457	17.44	18.00	1.151	0.526	/
	Level1&2&3			0	39750	2506	50	Low	-0.05	0.445	17.42	18.00	1.117	0.497	/
	Level1&2&3		Left Tilt	0	39750	2506	1	Low	-0.16	0.551	17.44	18.00	1.138	0.627	/
	Level1&2&3			0	39750	2506	50	Low	0.14	0.539	17.42	18.00	1.143	0.616	/
	Level1&2&3		Right Cheek	0	39750	2506	1	Low	-0.16	0.672	17.44	18.00	1.138	0.764	/
	Level1&2&3			0	39750	2506	50	Low	0.18	0.665	17.42	18.00	1.143	0.760	/
	Level1&2&3		Right Tilt	0	39750	2506	1	Low	-0.02	0.804	17.44	18.00	1.138	0.915	26#
	Level1&2&3			0	40185	2549.5	1	Low	0.11	0.685	17.36	18.00	1.159	0.794	/
	Level1&2&3			0	40620	2593	1	Low	0.04	0.649	17.34	18.00	1.164	0.756	/
	Level1&2&3			0	41055	2636.5	1	Low	-0.17	0.625	17.41	18.00	1.146	0.716	/
	Level1&2&3			0	41490	2680	1	Low	-0.08	0.434	17.30	18.00	1.175	0.510	/
	Level1&2&3			0	39750	2506	50	Low	0.01	0.795	17.42	18.00	1.143	0.909	/
	Level1&2&3			0	40185	2549.5	50	Low	-0.14	0.680	17.35	18.00	1.161	0.790	/
	Level1&2&3			0	40620	2593	50	Low	-0.15	0.633	17.35	18.00	1.161	0.735	/
	Level1&2&3			0	41055	2636.5	50	Low	0.19	0.615	17.32	18.00	1.169	0.719	/
	Level1&2&3			0	41490	2680	50	Low	0.13	0.438	17.24	18.00	1.191	0.522	/
	Level1&2&3		0	40185	2549.5	100	Low	0.08	0.658	17.40	18.00	1.148	0.755	/	
	Down		Off	QPSK	Left Cheek	0	39750	2506	1	Low	0.00	0.055	24.39	25.00	1.151
Off		0	39750			2506	50	Low	-0.03	0.049	23.52	24.00	1.117	0.055	/
Off		Left Tilt	0		39750	2506	1	Low	0.05	0.045	24.39	25.00	1.151	0.052	/
Off			0		39750	2506	50	Low	-0.03	0.042	23.52	24.00	1.117	0.047	/
Off		Right Cheek	0		39750	2506	1	Low	-0.01	0.072	24.39	25.00	1.151	0.083	/
Off			0		39750	2506	50	Low	0.13	0.068	23.52	24.00	1.117	0.076	/
Off		Right Tilt	0		39750	2506	1	Low	-0.14	0.050	24.39	25.00	1.151	0.058	/
Off			0		39750	2506	50	Low	0.13	0.045	23.52	24.00	1.117	0.050	/
Worse case for Head CA															
Up	Level1&2&3	QPSK	Right Tilt	0	PCC 39750 +SCC 39948	2506+ 2525.8	PCC 1+ SCC 1	High + Low	-0.14	0.695	16.44	17.00	1.138	0.791	/
Body-worn Accessory&Hotspot															
Up	Level4&5&6	QPSK	Front Side	10	39750	2506	1	Low	0.14	0.219	17.44	18.00	1.138	0.249	/
	Level4&5&6			10	39750	2506	50	Low	-0.06	0.215	17.42	18.00	1.143	0.246	/
	Level4&5&6		Back Side	10	39750	2506	1	Low	0.02	0.642	17.44	18.00	1.138	0.730	27#
	Level4&5&6			10	39750	2506	50	Low	-0.14	0.626	17.42	18.00	1.143	0.715	/
	Level4&5&6		Left Edge	10	39750	2506	1	Low	-0.09	0.018	17.44	18.00	1.138	0.020	/
	Level4&5&6			10	39750	2506	50	Low	0.12	0.017	17.42	18.00	1.143	0.019	/
	Level4&5&6		Right Edge	10	39750	2506	1	Low	0.09	0.088	17.44	18.00	1.138	0.100	/
	Level4&5&6			10	39750	2506	50	Low	0.08	0.085	17.42	18.00	1.143	0.097	/

	Level4&5&6		Top Edge	10	39750	2506	1	Low	-0.06	0.626	17.44	18.00	1.138	0.712	/
	Level4&5&6			10	39750	2506	50	Low	-0.07	0.622	17.42	18.00	1.143	0.711	/
Down	Level7&8&9	QPSK	Front Side	10	39750	2506	1	Low	0.06	0.184	22.35	23.00	1.161	0.214	/
	Level7&8&9			10	39750	2506	50	Low	0.09	0.164	22.35	23.00	1.161	0.190	/
	Level7&8&9		Back Side	10	39750	2506	1	Low	0.09	0.255	22.35	23.00	1.161	0.296	/
	Level7&8&9			10	39750	2506	50	Low	0.05	0.242	22.35	23.00	1.161	0.281	/
	Level7&8&9		Left Edge	10	39750	2506	1	Low	-0.18	0.116	22.35	23.00	1.161	0.135	/
	Level7&8&9			10	39750	2506	50	Low	0.03	0.117	22.35	23.00	1.161	0.136	/
	Level7&8&9		Right Edge	10	39750	2506	1	Low	0.04	0.032	22.35	23.00	1.161	0.037	/
	Level7&8&9			10	39750	2506	50	Low	-0.11	0.029	22.35	23.00	1.161	0.034	/
	Level7&8&9		Bottom Edge	10	39750	2506	1	Low	-0.16	0.096	22.35	23.00	1.161	0.111	/
	Level7&8&9			10	39750	2506	50	Low	0.15	0.093	22.35	23.00	1.161	0.108	/

Worse case for Body-worn Accessory&Hotspot CA

Up	Level4&5&6	QPSK	Back Side	10	PCC 39750 +SCC 39948	2506+ 2525.8	PCC 1+ SCC 1	High + Low	0.07	0.535	16.44	17.00	1.138	0.609	/
Antenna	Power Reduction	Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	RB Num.	RB Start	Power Drift (dB)	10 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(d Bm)	Scaling Factor	10g Scaled SAR (W/kg)	Meas. No.

Product Specific 10g (0mm)

Up	Level4&5&6	QPSK	Front Side	0	39750	2506	1	Low	-0.08	0.819	17.44	18.00	1.138	0.932	/
	Level4&5&6			0	39750	2506	50	Low	-0.15	0.803	17.42	18.00	1.143	0.918	/
	Level4&5&6		Back Side	0	39750	2506	1	Low	-0.10	1.080	17.44	18.00	1.138	1.229	28#
	Level4&5&6			0	39750	2506	50	Low	-0.09	1.050	17.42	18.00	1.143	1.200	/
	Level4&5&6		Left Edge	0	39750	2506	1	Low	0.19	0.022	17.44	18.00	1.138	0.025	/
	Level4&5&6			0	39750	2506	50	Low	-0.16	0.020	17.42	18.00	1.143	0.023	/
	Level4&5&6		Right Edge	0	39750	2506	1	Low	0.08	0.188	17.44	18.00	1.138	0.214	/
	Level4&5&6			0	39750	2506	50	Low	0.15	0.173	17.42	18.00	1.143	0.198	/
	Level4&5&6		Top Edge	0	39750	2506	1	Low	-0.04	0.390	17.44	18.00	1.138	0.444	/
	Level4&5&6			0	39750	2506	50	Low	-0.18	0.385	17.42	18.00	1.143	0.440	/

Worse case for Product Specific 10g (0mm) CA

Up	Level4&5&6	QPSK	Back Side	0	PCC39 750 +SCC3 9948	2506+ 2525.8	PCC 1+ SCC 1	High +Lo w	0.15	0.903	16.44	17.00	1.138	1.027	/
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Note: Refer to ANNEX C for the detailed test data for each test configuration.

10.13 WIFI 2.4GHz

Mode	Power Reduction	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	Duty cycle (%)	Duty Factor	1g Scaled SAR (W/kg)	Meas. No.
Head														
802.11 b	Level1&2	Left Cheek	0	11	2462	-0.08	0.280	13.39	14.00	1.151	98.58	1.014	0.327	29#
	Level1&2	Left Tilt	0	11	2462	0.10	0.231	13.39	14.00	1.151	98.58	1.014	0.270	/
	Level1&2	Right Cheek	0	11	2462	-0.06	0.136	13.39	14.00	1.151	98.58	1.014	0.159	/
	Level1&2	Right Tilt	0	11	2462	0.05	0.143	13.39	14.00	1.151	98.58	1.014	0.167	/
Body-worn Accessory&Hotspot														
802.11 b	Level3	Front Side	10	6	2437	-0.04	0.068	14.95	16.00	1.274	98.58	1.014	0.088	/
	Level3	Back Side	10	6	2437	-0.06	0.103	14.95	16.00	1.274	98.58	1.014	0.133	/
	Level3	Left Edge	10	6	2437	0.02	0.036	14.95	16.00	1.274	98.58	1.014	0.047	/
	Level3	Right Edge	10	6	2437	-0.03	0.012	14.95	16.00	1.274	98.58	1.014	0.016	/
	Level3	Top Edge	10	6	2437	0.03	0.165	14.95	16.00	1.274	98.58	1.014	0.213	30#
802.11 b	Level4	Front Side	10	11	2462	0.17	0.055	14.35	15.00	1.161	98.58	1.014	0.065	/
	Level4	Back Side	10	11	2462	-0.06	0.084	14.35	15.00	1.161	98.58	1.014	0.098	/
	Level4	Left Edge	10	11	2462	-0.13	0.029	14.35	15.00	1.161	98.58	1.014	0.034	/
	Level4	Right Edge	10	11	2462	-0.13	0.010	14.35	15.00	1.161	98.58	1.014	0.012	/
	Level4	Top Edge	10	11	2462	0.10	0.134	14.35	15.00	1.161	98.58	1.014	0.158	/

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

10.14 WIFI 5GHz

Fre. Band	Mode	Power Reduction	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	Duty cycle (%)	Duty Factor	1g Scaled SAR (W/kg)	Meas. No.
Head															
5.3G	802.11 a	Level1	Left Cheek	0	60	5300	-0.07	0.553	14.18	14.50	1.076	98.10	1.019	0.607	/
		Level1	Left Tilt	0	60	5300	0.08	0.816	14.18	14.50	1.076	98.10	1.019	0.895	/
		Level1		0	52	5260	0.13	0.765	13.93	14.50	1.140	98.10	1.019	0.889	/
		Level1		0	64	5320	-0.03	0.808	14.08	14.50	1.102	98.10	1.019	0.907	31#
		Level1		Right Cheek	0	60	5300	0.11	0.272	14.18	14.50	1.076	98.10	1.019	0.298
		Level1	Right Tilt	0	60	5300	0.03	0.364	14.18	14.50	1.076	98.10	1.019	0.399	/
5.3G	802.11 a	Level2	Left Cheek	0	60	5300	-0.06	0.245	10.75	11.00	1.059	98.10	1.019	0.265	/
		Level2	Left Tilt	0	60	5300	0.05	0.424	10.75	11.00	1.059	98.10	1.019	0.458	/
		Level2	Right Cheek	0	60	5300	0.00	0.196	10.75	11.00	1.059	98.10	1.019	0.212	/
		Level2	Right Tilt	0	60	5300	0.17	0.240	10.75	11.00	1.059	98.10	1.019	0.259	/
5.6G	802.11 a	Level1	Left Cheek	0	116	5580	0.18	0.402	13.82	14.00	1.042	98.10	1.019	0.427	/
		Level1	Left Tilt	0	116	5580	-0.04	0.732	13.82	14.00	1.042	98.10	1.019	0.778	32#
		Level1	Right Cheek	0	116	5580	-0.15	0.268	13.82	14.00	1.042	98.10	1.019	0.285	/
		Level1	Right Tilt	0	116	5580	0.12	0.360	13.82	14.00	1.042	98.10	1.019	0.383	/
5.6G	802.11 a	Level2	Left Cheek	0	116	5580	-0.17	0.205	10.73	11.00	1.064	98.10	1.019	0.222	/
		Level2	Left Tilt	0	116	5580	0.12	0.374	10.73	11.00	1.064	98.10	1.019	0.406	/
		Level2	Right Cheek	0	116	5580	-0.16	0.136	10.73	11.00	1.064	98.10	1.019	0.148	/

		Level2	Right Tilt	0	116	5580	0.10	0.182	10.73	11.00	1.064	98.10	1.019	0.197	/
5.8G	802.11 a	Level1	Left Cheek	0	165	5825	-0.14	0.446	12.36	12.50	1.033	98.10	1.019	0.470	/
		Level1	Left Tilt	0	165	5825	-0.05	0.809	12.36	12.50	1.033	98.10	1.019	0.852	33#
		Level1		0	149	5745	-0.09	0.737	12.18	12.50	1.076	98.10	1.019	0.809	/
		Level1		0	157	5785	-0.12	0.720	12.03	12.50	1.114	98.10	1.019	0.818	/
		Level1	Right Cheek	0	165	5825	0.03	0.300	12.36	12.50	1.033	98.10	1.019	0.316	/
		Level1	Right Tilt	0	165	5825	0.00	0.406	12.36	12.50	1.033	98.10	1.019	0.427	/
5.8G	802.11 a	Level2	Left Cheek	0	165	5825	0.07	0.260	8.78	9.00	1.052	98.10	1.019	0.279	/
		Level2	Left Tilt	0	165	5825	0.07	0.471	8.78	9.00	1.052	98.10	1.019	0.505	/
		Level2	Right Cheek	0	165	5825	0.08	0.175	8.78	9.00	1.052	98.10	1.019	0.188	/
		Level2	Right Tilt	0	165	5825	-0.07	0.236	8.78	9.00	1.052	98.10	1.019	0.253	/
Body-worn Accessory&Hotspot															
5.2G	802.11 a	Level3	Front Side	10	36	5180	0.05	0.102	13.80	14.00	1.047	98.10	1.019	0.109	/
		Level3	Back Side	10	36	5180	-0.17	0.118	13.80	14.00	1.047	98.10	1.019	0.126	/
		Level3	Left Edge	10	36	5180	0.19	0.047	13.80	14.00	1.047	98.10	1.019	0.050	/
		Level3	Right Edge	10	36	5180	-0.09	0.005	13.80	14.00	1.047	98.10	1.019	0.005	/
		Level3	Top Edge	10	36	5180	0.02	0.207	13.80	14.00	1.047	98.10	1.019	0.221	34#
5.2G	802.11 a	Level4	Front Side	10	36	5180	-0.14	0.056	11.91	12.00	1.021	98.10	1.019	0.058	/
		Level4	Back Side	10	36	5180	0.15	0.067	11.91	12.00	1.021	98.10	1.019	0.070	/
		Level4	Left Edge	10	36	5180	-0.15	0.026	11.91	12.00	1.021	98.10	1.019	0.027	/
		Level4	Right Edge	10	36	5180	-0.13	0.003	11.91	12.00	1.021	98.10	1.019	0.003	/
		Level4	Top Edge	10	36	5180	-0.13	0.116	11.91	12.00	1.021	98.10	1.019	0.121	/
5.8G	802.11 a	Level3	Front Side	10	165	5825	-0.18	0.261	13.93	14.00	1.016	98.10	1.019	0.270	/
		Level3	Back Side	10	165	5825	0.16	0.300	13.93	14.00	1.016	98.10	1.019	0.311	/
		Level3	Left Edge	10	165	5825	0.14	0.120	13.93	14.00	1.016	98.10	1.019	0.124	/
		Level3	Right Edge	10	165	5825	0.06	0.010	13.93	14.00	1.016	98.10	1.019	0.010	/
		Level3	Top Edge	10	165	5825	-0.03	0.528	13.93	14.00	1.016	98.10	1.019	0.547	35#
5.8G	802.11 a	Level4	Front Side	10	165	5825	0.10	0.165	11.88	12.00	1.028	98.10	1.019	0.173	/
		Level4	Back Side	10	165	5825	0.05	0.192	11.88	12.00	1.028	98.10	1.019	0.201	/
		Level4	Left Edge	10	165	5825	-0.19	0.075	11.88	12.00	1.028	98.10	1.019	0.079	/
		Level4	Right Edge	10	165	5825	-0.02	0.006	11.88	12.00	1.028	98.10	1.019	0.006	/
		Level4	Top Edge	10	165	5825	-0.02	0.336	11.88	12.00	1.028	98.10	1.019	0.352	/
Fre. Band	Mode	Power Reduction	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	10 g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	Duty cycle (%)	Duty Factor	10g Scaled SAR (W/kg)	Meas. No.
Product Specific 10g (0mm)															
5.3G	802.11 a	Level3	Front Side	0	60	5300	-0.07	0.156	13.98	14.00	1.005	98.10	1.019	0.160	/
		Level3	Back Side	0	60	5300	-0.08	0.193	13.98	14.00	1.005	98.10	1.019	0.198	/
		Level3	Left Edge	0	60	5300	0.15	0.048	13.98	14.00	1.005	98.10	1.019	0.049	/
		Level3	Right Edge	0	60	5300	-0.04	0.014	13.98	14.00	1.005	98.10	1.019	0.014	/
		Level3	Top Edge	0	60	5300	0.03	0.526	13.98	14.00	1.005	98.10	1.019	0.539	36#
5.3G	802.11 a	Level4	Front Side	0	60	5300	-0.06	0.093	11.88	12.00	1.028	98.10	1.019	0.097	/
		Level4	Back Side	0	60	5300	0.14	0.114	11.88	12.00	1.028	98.10	1.019	0.119	/
		Level4	Left Edge	0	60	5300	-0.09	0.028	11.88	12.00	1.028	98.10	1.019	0.029	/

		Level4	Right Edge	0	60	5300	-0.04	0.008	11.88	12.00	1.028	98.10	1.019	0.008	/
		Level4	Top Edge	0	60	5300	-0.07	0.312	11.88	12.00	1.028	98.10	1.019	0.327	/
5.6G	802.11 a	Level3	Front Side	0	116	5580	-0.11	0.180	13.98	14.00	1.005	98.10	1.019	0.184	/
		Level3	Back Side	0	116	5580	0.09	0.224	13.98	14.00	1.005	98.10	1.019	0.229	/
		Level3	Left Edge	0	116	5580	-0.10	0.055	13.98	14.00	1.005	98.10	1.019	0.056	/
		Level3	Right Edge	0	116	5580	0.10	0.016	13.98	14.00	1.005	98.10	1.019	0.016	/
		Level3	Top Edge	0	116	5580	0.01	0.608	13.98	14.00	1.005	98.10	1.019	0.623	37#
		Level4	Front Side	0	116	5580	-0.12	0.101	11.85	12.00	1.035	98.10	1.019	0.107	/
5.6G	802.11 a	Level4	Back Side	0	116	5580	0.10	0.126	11.85	12.00	1.035	98.10	1.019	0.133	/
		Level4	Left Edge	0	116	5580	0.06	0.031	11.85	12.00	1.035	98.10	1.019	0.033	/
		Level4	Right Edge	0	116	5580	-0.12	0.009	11.85	12.00	1.035	98.10	1.019	0.009	/
		Level4	Top Edge	0	116	5580	0.13	0.339	11.85	12.00	1.035	98.10	1.019	0.358	/
		Level4	Front Side	0	116	5580	-0.12	0.101	11.85	12.00	1.035	98.10	1.019	0.107	/

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

10.15 Bluetooth

Mode	Position	Dist. (mm)	Ch.	Freq. (MHz)	Power Drift (dB)	1 g Meas SAR(W/kg)	Meas. Power (dBm)	Max. tune-up power(dBm)	Scaling Factor	Duty cycle(%)	Duty Factor	1g Scaled SAR (W/kg)	Meas. No.
Head													
DH5	Left Cheek	0	78	2480	0.00	0.169	12.50	12.80	1.072	76.8	1.302	0.236	38#
	Left Tilt	0	78	2480	-0.03	0.146	12.50	12.80	1.072	76.8	1.302	0.203	/
	Right Cheek	0	78	2480	0.01	0.082	12.50	12.80	1.072	76.8	1.302	0.114	/
	Right Tilt	0	78	2480	0.11	0.086	12.50	12.80	1.072	76.8	1.302	0.120	/
Body-worn Accessory&Hotspot													
DH5	Front Side	10	78	2480	0.12	0.011	12.50	12.80	1.072	76.8	1.302	0.015	/
	Back Side	10	78	2480	-0.07	0.017	12.50	12.80	1.072	76.8	1.302	0.024	39#
	Left Edge	10	78	2480	0.04	0.004	12.50	12.80	1.072	76.8	1.302	0.006	/
	Right Edge	10	78	2480	0.07	0.001	12.50	12.80	1.072	76.8	1.302	0.001	/
	Top Edge	10	78	2480	-0.03	0.016	12.50	12.80	1.072	76.8	1.302	0.022	/

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

11 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.

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)	Highest Measured SAR (W/kg)	Largest to Smallest SAR Ratio
2600	LTE Band 41	Head	Right Tilt	0.804	Yes	0.783	1.03
5300	WIFI 802.11 a	Head	Left Tilt	0.816	Yes	0.792	1.03
5800	WIFI 802.11 a	Head	Left Tilt	0.809	Yes	0.796	1.02

Note: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20 , the second repeated measurement is not required.

Note: For product specific 10g SAR, the highest measured 10g SAR is $1.53 < 2.0$ W/kg, repeated measurement is not required.

12 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).

12.1 Simultaneous Transmission Mode Consider

No.	Simultaneous Tx Combination	Head	Body-worn Accessory & Hotspot	Product Specific
1	GSM + WiFi 2.4G	Yes	Yes	Yes
2	GSM + WiFi 5G	Yes	Yes	Yes
3	GSM + Bluetooth	Yes	Yes	Yes
4	UMTS + WiFi 2.4G	Yes	Yes	Yes
5	UMTS + WiFi 5G	Yes	Yes	Yes
6	UMTS + Bluetooth	Yes	Yes	Yes
7	LTE + WiFi 2.4G	Yes	Yes	Yes
8	LTE + WiFi 5G	Yes	Yes	Yes
9	LTE + Bluetooth	Yes	Yes	Yes
10	WiFi 5G + Bluetooth	Yes	No	No
11	GSM + 5G WIFI + Bluetooth	Yes	Yes	Yes
12	UMTS + 5G WIFI + Bluetooth	Yes	Yes	Yes
13	LTE + 5G WIFI + Bluetooth	Yes	Yes	Yes

Note:

- 2G&3G&4G share the same antenna and can't transmit simultaneously.
- 2.4G WLAN can't transmit simultaneously with Bluetooth or 5G WLAN.
- Two WWAN antennas can switch automatically, but up and down antenna can't transmit simultaneously.
- The maximum SAR summation is calculated based on the same configuration and test position.

12.2 Sum SAR of Simultaneous Transmission

12.2.1 Head Simultaneous Transmission SAR Evaluation for WWAN UAT of Up Antenna

Band	Power Reduction	Position	Stand alone SAR							SUM SAR							
			WWAN	2.4GWIFI	5.3GWIFI	5.6GWIFI	5.8GWIFI	5G WIFI	Bluetooth	5GWIFI+ Bluetooth	WWAN+2.4G WIFI	WWAN+5.2&5.3G WIFI	WWAN+5.6G WIFI	WWAN+5.8G WIFI	WWAN+5G WIFI	WWAN+Bluetooth	WWAN+5G WIFI +Bluetooth
GSM 850	Level2&3	Left Cheek	0.210	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.537	0.475	0.433	0.489	0.489	0.446	0.725
	Level2&3	Left Tilt	0.156	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.426	0.614	0.562	0.661	0.661	0.359	0.864
	Level2&3	Right Cheek	0.261	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.419	0.472	0.408	0.448	0.472	0.375	0.587
	Level2&3	Right Tilt	0.238	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.405	0.497	0.435	0.491	0.497	0.358	0.617
GSM1 900	Level2&3	Left Cheek	0.197	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.524	0.462	0.419	0.476	0.476	0.433	0.712
	Level2&3	Left Tilt	0.252	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.521	0.710	0.657	0.757	0.757	0.455	0.960
	Level2&3	Right Cheek	0.227	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.386	0.439	0.375	0.415	0.439	0.342	0.553
	Level2&3	Right Tilt	0.286	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.453	0.545	0.483	0.539	0.545	0.406	0.665
WCD MA B2	Level2&3	Left Cheek	0.357	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.684	0.621	0.579	0.636	0.636	0.593	0.871
	Level2&3	Left Tilt	0.457	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.727	0.915	0.863	0.962	0.962	0.660	1.165
	Level2&3	Right Cheek	0.412	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.571	0.624	0.560	0.600	0.624	0.526	0.738
	Level2&3	Right Tilt	0.517	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.684	0.776	0.714	0.770	0.776	0.637	0.896
WCD MA B4	Level2&3	Left Cheek	0.218	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.545	0.483	0.440	0.497	0.497	0.454	0.733
	Level2&3	Left Tilt	0.278	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.548	0.736	0.684	0.783	0.783	0.481	0.986
	Level2&3	Right Cheek	0.239	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.398	0.450	0.386	0.426	0.450	0.353	0.565
	Level2&3	Right Tilt	0.331	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.498	0.590	0.528	0.584	0.590	0.451	0.710
WCD MA B5	Level2&3	Left Cheek	0.280	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.607	0.545	0.503	0.559	0.559	0.516	0.795
	Level2&3	Left Tilt	0.208	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.478	0.666	0.614	0.714	0.714	0.412	0.917
	Level2&3	Right Cheek	0.349	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.507	0.560	0.496	0.536	0.560	0.463	0.675
	Level2&3	Right Tilt	0.317	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.484	0.576	0.514	0.570	0.576	0.437	0.696
LTE B2	Level2&3	Left Cheek	0.322	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.649	0.586	0.544	0.601	0.601	0.558	0.837
	Level2&3	Left Tilt	0.410	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.680	0.868	0.816	0.915	0.915	0.613	1.118
	Level2&3	Right Cheek	0.370	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.529	0.582	0.518	0.558	0.582	0.484	0.696
	Level2&3	Right Tilt	0.477	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.644	0.736	0.674	0.730	0.736	0.597	0.856
LTE B4	Level2&3	Left Cheek	0.181	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.508	0.446	0.403	0.460	0.460	0.417	0.696
	Level2&3	Left Tilt	0.232	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.501	0.689	0.637	0.737	0.737	0.435	0.940
	Level2&3	Right Cheek	0.199	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.358	0.411	0.347	0.387	0.411	0.314	0.525
	Level2&3	Right Tilt	0.261	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.428	0.521	0.459	0.515	0.521	0.381	0.641
LTE B7	Level2&3	Left Cheek	0.419	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.746	0.684	0.641	0.698	0.698	0.655	0.934
	Level2&3	Left Tilt	0.509	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.778	0.966	0.914	1.014	1.014	0.712	1.217
	Level2&3	Right Cheek	0.615	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.774	0.827	0.763	0.803	0.827	0.730	0.941
	Level2&3	Right Tilt	0.746	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.913	1.005	0.944	0.999	1.005	0.866	1.125
LTE B12	Level2&3	Left Cheek	0.089	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.415	0.353	0.311	0.367	0.367	0.324	0.603
	Level2&3	Left Tilt	0.066	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.335	0.523	0.471	0.571	0.571	0.269	0.774
	Level2&3	Right Cheek	0.113	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.272	0.324	0.260	0.301	0.324	0.227	0.439
	Level2&3	Right Tilt	0.098	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.265	0.357	0.296	0.351	0.357	0.218	0.477

LTE	Level2&3	Left Cheek	0.321	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.648	0.585	0.543	0.600	0.600	0.557	0.835
	Level2&3	Left Tilt	0.238	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.508	0.696	0.644	0.743	0.743	0.441	0.947
B26	Level2&3	Right Cheek	0.399	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.558	0.611	0.547	0.587	0.611	0.514	0.725
	Level2&3	Right Tilt	0.364	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.531	0.623	0.561	0.617	0.623	0.484	0.743
LTE	Level2&3	Left Cheek	0.188	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.515	0.453	0.411	0.467	0.467	0.424	0.703
	Level2&3	Left Tilt	0.241	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.511	0.699	0.647	0.746	0.746	0.444	0.949
B66	Level2&3	Right Cheek	0.208	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.367	0.419	0.355	0.395	0.419	0.322	0.534
	Level2&3	Right Tilt	0.273	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.440	0.532	0.471	0.526	0.532	0.393	0.652
LTE	Level2&3	Left Cheek	0.526	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.853	0.790	0.748	0.805	0.805	0.762	1.041
	Level2&3	Left Tilt	0.627	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.896	1.085	1.033	1.132	1.132	0.830	1.335
B41	Level2&3	Right Cheek	0.764	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.923	0.976	0.912	0.952	0.976	0.879	1.091
	Level2&3	Right Tilt	0.915	0.167	0.259	0.197	0.253	0.259	0.120	0.379	1.082	1.174	1.112	1.168	1.174	1.035	1.294

Note: The highest Summed 1g SAR is 1.335 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.2 Hotspot Simultaneous Transmission SAR Evaluation for WWAN UAT of Up Antenna

Band	Power Reduction	Position	Stand alone SAR						SUM SAR					
			WWAN	2.4GWIFI	5.2GWIFI	5.8GWIFI	5G WIFI	Bluetooth	WWAN+2.4G WIFI	WWAN+5.2G WIFI	WWAN+5.8G WIFI	WWAN+5G WIFI	WWAN+Bluetooth	WWAN+5G WIFI +Bluetooth
GSM 850	Off	Front Side 10mm	0.052	0.065	0.058	0.173	0.173	0.015	0.117	0.110	0.225	0.225	0.067	0.240
	Off	Back Side 10mm	0.059	0.098	0.070	0.201	0.201	0.024	0.158	0.129	0.260	0.260	0.083	0.284
	Off	Left Edge 10mm	0.019	0.034	0.027	0.079	0.079	0.006	0.053	0.046	0.098	0.098	0.025	0.103
	Off	Right Edge 10mm	0.022	0.012	0.003	0.006	0.006	0.001	0.033	0.025	0.028	0.028	0.023	0.029
	Off	Top Edge 10mm	0.040	0.158	0.121	0.352	0.352	0.022	0.198	0.160	0.392	0.392	0.062	0.414
GSM 1900	Level5&6	Front Side 10mm	0.151	0.065	0.058	0.173	0.173	0.015	0.216	0.209	0.324	0.324	0.166	0.339
	Level5&6	Back Side 10mm	0.231	0.098	0.070	0.201	0.201	0.024	0.329	0.300	0.432	0.432	0.254	0.455
	Level5&6	Left Edge 10mm	0.010	0.034	0.027	0.079	0.079	0.006	0.044	0.037	0.088	0.088	0.015	0.094
	Level5&6	Right Edge 10mm	0.024	0.012	0.003	0.006	0.006	0.001	0.036	0.027	0.030	0.030	0.026	0.032
	Level5&6	Top Edge 10mm	0.402	0.158	0.121	0.352	0.352	0.022	0.560	0.523	0.754	0.754	0.425	0.777
WCD MA B2	Level5&6	Front Side 10mm	0.169	0.065	0.058	0.173	0.173	0.015	0.234	0.228	0.342	0.342	0.185	0.358
	Level5&6	Back Side 10mm	0.242	0.098	0.070	0.201	0.201	0.024	0.340	0.312	0.443	0.443	0.265	0.467
	Level5&6	Left Edge 10mm	0.008	0.034	0.027	0.079	0.079	0.006	0.042	0.035	0.087	0.087	0.013	0.092
	Level5&6	Right Edge 10mm	0.033	0.012	0.003	0.006	0.006	0.001	0.045	0.036	0.039	0.039	0.034	0.040
	Level5&6	Top Edge 10mm	0.284	0.158	0.121	0.352	0.352	0.022	0.441	0.404	0.636	0.636	0.306	0.658
WCD MA B4	Level5&6	Front Side 10mm	0.065	0.065	0.058	0.173	0.173	0.015	0.130	0.123	0.238	0.238	0.080	0.253
	Level5&6	Back Side 10mm	0.086	0.098	0.070	0.201	0.201	0.024	0.185	0.156	0.288	0.288	0.110	0.311
	Level5&6	Left Edge 10mm	0.009	0.034	0.027	0.079	0.079	0.006	0.043	0.036	0.088	0.088	0.015	0.093
	Level5&6	Right Edge 10mm	0.015	0.012	0.003	0.006	0.006	0.001	0.027	0.018	0.021	0.021	0.016	0.022
	Level5&6	Top Edge 10mm	0.143	0.158	0.121	0.352	0.352	0.022	0.301	0.264	0.495	0.495	0.166	0.518
WCD MA B5	Off	Front Side 10mm	0.111	0.065	0.058	0.173	0.173	0.015	0.176	0.169	0.284	0.284	0.126	0.299
	Off	Back Side 10mm	0.127	0.098	0.070	0.201	0.201	0.024	0.225	0.197	0.328	0.328	0.150	0.352

	Off	Left Edge 10mm	0.066	0.034	0.027	0.079	0.079	0.006	0.100	0.093	0.144	0.144	0.071	0.150
	Off	Right Edge 10mm	0.071	0.012	0.003	0.006	0.006	0.001	0.082	0.074	0.077	0.077	0.072	0.078
	Off	Top Edge 10mm	0.118	0.158	0.121	0.352	0.352	0.022	0.276	0.239	0.470	0.470	0.141	0.493
LTE B2	Level5&6	Front Side 10mm	0.181	0.065	0.058	0.173	0.173	0.015	0.246	0.239	0.354	0.354	0.196	0.369
	Level5&6	Back Side 10mm	0.249	0.098	0.070	0.201	0.201	0.024	0.347	0.318	0.450	0.450	0.272	0.473
	Level5&6	Left Edge 10mm	0.006	0.034	0.027	0.079	0.079	0.006	0.040	0.033	0.084	0.084	0.011	0.090
	Level5&6	Right Edge 10mm	0.050	0.012	0.003	0.006	0.006	0.001	0.062	0.053	0.056	0.056	0.052	0.058
	Level5&6	Top Edge 10mm	0.372	0.158	0.121	0.352	0.352	0.022	0.530	0.493	0.724	0.724	0.395	0.747
LTE B4	Level5&6	Front Side 10mm	0.169	0.065	0.058	0.173	0.173	0.015	0.234	0.227	0.342	0.342	0.185	0.357
	Level5&6	Back Side 10mm	0.234	0.098	0.070	0.201	0.201	0.024	0.333	0.304	0.435	0.435	0.258	0.459
	Level5&6	Left Edge 10mm	0.031	0.034	0.027	0.079	0.079	0.006	0.065	0.058	0.109	0.109	0.036	0.115
	Level5&6	Right Edge 10mm	0.046	0.012	0.003	0.006	0.006	0.001	0.057	0.049	0.052	0.052	0.047	0.053
	Level5&6	Top Edge 10mm	0.336	0.158	0.121	0.352	0.352	0.022	0.494	0.457	0.688	0.688	0.358	0.710
LTE B7	Level5&6	Front Side 10mm	0.295	0.065	0.058	0.173	0.173	0.015	0.360	0.354	0.468	0.468	0.311	0.484
	Level5&6	Back Side 10mm	0.918	0.098	0.070	0.201	0.201	0.024	1.017	0.988	1.119	1.119	0.942	1.143
	Level5&6	Left Edge 10mm	0.027	0.034	0.027	0.079	0.079	0.006	0.061	0.054	0.105	0.105	0.032	0.111
	Level5&6	Right Edge 10mm	0.087	0.012	0.003	0.006	0.006	0.001	0.098	0.090	0.093	0.093	0.088	0.094
	Level5&6	Top Edge 10mm	0.875	0.158	0.121	0.352	0.352	0.022	1.033	0.996	1.228	1.228	0.898	1.250
LTE B12	Off	Front Side 10mm	0.049	0.065	0.058	0.173	0.173	0.015	0.113	0.107	0.221	0.221	0.064	0.237
	Off	Back Side 10mm	0.066	0.098	0.070	0.201	0.201	0.024	0.165	0.136	0.268	0.268	0.090	0.291
	Off	Left Edge 10mm	0.024	0.034	0.027	0.079	0.079	0.006	0.058	0.051	0.102	0.102	0.029	0.108
	Off	Right Edge 10mm	0.029	0.012	0.003	0.006	0.006	0.001	0.040	0.032	0.035	0.035	0.030	0.036
	Off	Top Edge 10mm	0.044	0.158	0.121	0.352	0.352	0.022	0.201	0.164	0.396	0.396	0.066	0.418
LTE B26	Off	Front Side 10mm	0.102	0.065	0.058	0.173	0.173	0.015	0.167	0.161	0.275	0.275	0.118	0.291
	Off	Back Side 10mm	0.176	0.098	0.070	0.201	0.201	0.024	0.275	0.246	0.378	0.378	0.200	0.401
	Off	Left Edge 10mm	0.026	0.034	0.027	0.079	0.079	0.006	0.060	0.053	0.105	0.105	0.032	0.110
	Off	Right Edge 10mm	0.032	0.012	0.003	0.006	0.006	0.001	0.044	0.036	0.039	0.039	0.034	0.040
	Off	Top Edge 10mm	0.110	0.158	0.121	0.352	0.352	0.022	0.268	0.231	0.462	0.462	0.133	0.485
LTE B66	Level5&6	Front Side 10mm	0.183	0.065	0.058	0.173	0.173	0.015	0.248	0.242	0.356	0.356	0.199	0.372
	Level5&6	Back Side 10mm	0.256	0.098	0.070	0.201	0.201	0.024	0.355	0.326	0.458	0.458	0.280	0.481
	Level5&6	Left Edge 10mm	0.034	0.034	0.027	0.079	0.079	0.006	0.068	0.061	0.112	0.112	0.039	0.118
	Level5&6	Right Edge 10mm	0.048	0.012	0.003	0.006	0.006	0.001	0.060	0.051	0.055	0.055	0.050	0.056
	Level5&6	Top Edge 10mm	0.364	0.158	0.121	0.352	0.352	0.022	0.522	0.485	0.716	0.716	0.387	0.739
LTE B41	Level5&6	Front Side 10mm	0.249	0.065	0.058	0.173	0.173	0.015	0.314	0.307	0.422	0.422	0.264	0.437
	Level5&6	Back Side 10mm	0.730	0.098	0.070	0.201	0.201	0.024	0.829	0.800	0.932	0.932	0.754	0.955
	Level5&6	Left Edge 10mm	0.020	0.034	0.027	0.079	0.079	0.006	0.055	0.048	0.099	0.099	0.026	0.105
	Level5&6	Right Edge 10mm	0.100	0.012	0.003	0.006	0.006	0.001	0.112	0.103	0.106	0.106	0.102	0.108
	Level5&6	Top Edge 10mm	0.712	0.158	0.121	0.352	0.352	0.022	0.870	0.833	1.064	1.064	0.734	1.087

Note: The highest Summed 1g SAR is 1.250 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.3 Specific Simultaneous Transmission SAR Evaluation for WWAN UAT of Up Antenna

Band	Power Reduction	Position	Stand alone SAR					SUM SAR				
			WWAN	2.4GWIFI	5.2GWIFI	5.8GWIFI	5G WIFI	WWAN+2.4G WIFI	WWAN+5.2G WIFI	WWAN+5.8G WIFI	WWAN+5G WIFI	WWAN+Bluetooth
WCD	Level5&6	Front Side 0mm	0.236	0.097	0.107	0.107	0.000	0.334	0.343	0.343	0.236	0.343
	Level5&6	Back Side 0mm	0.383	0.119	0.133	0.133	0.000	0.502	0.516	0.516	0.383	0.516
MA	Level5&6	Left Edge 0mm	0.015	0.029	0.033	0.033	0.000	0.044	0.047	0.047	0.015	0.047
B2	Level5&6	Right Edge 0mm	0.059	0.008	0.009	0.009	0.000	0.067	0.068	0.068	0.059	0.068
	Level5&6	Top Edge 0mm	1.112	0.327	0.358	0.358	0.000	1.439	1.469	1.469	1.112	1.469
LTE B2	Level5&6	Front Side 0mm	0.583	0.097	0.107	0.107	0.000	0.681	0.690	0.690	0.583	0.690
	Level5&6	Back Side 0mm	0.590	0.119	0.133	0.133	0.000	0.710	0.723	0.723	0.590	0.723
	Level5&6	Left Edge 0mm	0.022	0.029	0.033	0.033	0.000	0.052	0.055	0.055	0.022	0.055
	Level5&6	Right Edge 0mm	0.085	0.008	0.009	0.009	0.000	0.094	0.095	0.095	0.085	0.095
	Level5&6	Top Edge 0mm	1.540	0.327	0.358	0.358	0.000	1.867	1.898	1.898	1.540	1.898
LTE B7	Level5&6	Front Side 0mm	1.511	0.097	0.107	0.107	0.000	1.608	1.618	1.618	1.511	1.618
	Level5&6	Back Side 0mm	1.765	0.119	0.133	0.133	0.000	1.884	1.898	1.898	1.765	1.898
	Level5&6	Left Edge 0mm	0.052	0.029	0.033	0.033	0.000	0.081	0.085	0.085	0.052	0.085
	Level5&6	Right Edge 0mm	0.264	0.008	0.009	0.009	0.000	0.273	0.274	0.274	0.264	0.274
	Level5&6	Top Edge 0mm	1.021	0.327	0.358	0.358	0.000	1.348	1.379	1.379	1.021	1.379
LTE B41	Level5&6	Front Side 0mm	0.932	0.097	0.107	0.107	0.000	1.029	1.038	1.038	0.932	1.038
	Level5&6	Back Side 0mm	1.229	0.119	0.133	0.133	0.000	1.348	1.362	1.362	1.229	1.362
	Level5&6	Left Edge 0mm	0.025	0.029	0.033	0.033	0.000	0.054	0.058	0.058	0.025	0.058
	Level5&6	Right Edge 0mm	0.214	0.008	0.009	0.009	0.000	0.222	0.223	0.223	0.214	0.223
	Level5&6	Top Edge 0mm	0.444	0.327	0.358	0.358	0.000	0.771	0.801	0.801	0.444	0.801

Note: The highest Summed 10g SAR is 1.898 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.4 Head Simultaneous Transmission SAR Evaluation for WWAN DAT of Down Antenna

Band	Power Reduction	Position	Stand alone SAR							SUM SAR							
			WWAN	2.4GWIFI	5.3GWIFI	5.6GWIFI	5.8GWIFI	5G WIFI	Bluetooth	5GWIFI+ Bluetooth	WWAN+2.4G WIFI	WWAN+5.2&5.3G WIFI	WWAN+5.6G WIFI	WWAN+5.8G WIFI	WWAN+5G WIFI	WWAN+Bluetooth	WWAN+5G WIFI +Bluetooth
GSM 850	Off	Left Cheek	0.123	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.450	0.387	0.345	0.402	0.402	0.359	0.638
	Off	Left Tilt	0.064	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.334	0.522	0.470	0.569	0.569	0.267	0.772
	Off	Right Cheek	0.124	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.283	0.336	0.272	0.312	0.336	0.239	0.450
	Off	Right Tilt	0.059	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.226	0.318	0.256	0.312	0.318	0.179	0.438
GSM1 900	Off	Left Cheek	0.084	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.411	0.349	0.307	0.363	0.363	0.320	0.599
	Off	Left Tilt	0.046	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.316	0.504	0.452	0.551	0.551	0.249	0.754
	Off	Right Cheek	0.063	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.222	0.274	0.210	0.250	0.274	0.177	0.389
	Off	Right Tilt	0.068	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.235	0.327	0.266	0.321	0.327	0.188	0.447
WCD MA B2	Off	Left Cheek	0.064	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.391	0.329	0.287	0.343	0.343	0.300	0.579
	Off	Left Tilt	0.050	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.320	0.508	0.456	0.555	0.555	0.253	0.758
	Off	Right Cheek	0.064	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.223	0.276	0.212	0.252	0.276	0.179	0.391
	Off	Right Tilt	0.063	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.230	0.323	0.261	0.316	0.323	0.183	0.443
WCD MA B4	Off	Left Cheek	0.072	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.399	0.337	0.295	0.351	0.351	0.308	0.587
	Off	Left Tilt	0.066	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.336	0.524	0.472	0.572	0.572	0.270	0.775
	Off	Right Cheek	0.066	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.225	0.278	0.214	0.254	0.278	0.181	0.392
	Off	Right Tilt	0.064	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.231	0.323	0.262	0.317	0.323	0.184	0.443
WCD MA B5	Off	Left Cheek	0.161	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.488	0.425	0.383	0.440	0.440	0.397	0.676
	Off	Left Tilt	0.076	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.346	0.534	0.482	0.582	0.582	0.280	0.785
	Off	Right Cheek	0.138	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.297	0.349	0.285	0.325	0.349	0.252	0.464
	Off	Right Tilt	0.072	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.239	0.331	0.269	0.325	0.331	0.192	0.451
LTE B2	Off	Left Cheek	0.093	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.420	0.358	0.316	0.372	0.372	0.329	0.608
	Off	Left Tilt	0.078	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.347	0.535	0.483	0.583	0.583	0.281	0.786
	Off	Right Cheek	0.070	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.229	0.282	0.218	0.258	0.282	0.185	0.396
	Off	Right Tilt	0.074	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.241	0.333	0.271	0.327	0.333	0.194	0.453
LTE B4	Off	Left Cheek	0.074	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.401	0.339	0.297	0.353	0.353	0.310	0.589
	Off	Left Tilt	0.065	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.334	0.522	0.470	0.570	0.570	0.268	0.773
	Off	Right Cheek	0.066	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.225	0.277	0.213	0.253	0.277	0.180	0.392
	Off	Right Tilt	0.067	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.234	0.326	0.264	0.320	0.326	0.187	0.446
LTE B7	Off	Left Cheek	0.072	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.398	0.336	0.294	0.350	0.350	0.307	0.586
	Off	Left Tilt	0.055	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.325	0.513	0.461	0.561	0.561	0.259	0.764
	Off	Right Cheek	0.093	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.252	0.305	0.241	0.281	0.305	0.208	0.419
	Off	Right Tilt	0.060	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.227	0.319	0.258	0.313	0.319	0.180	0.439
LTE B12	Off	Left Cheek	0.112	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.439	0.377	0.334	0.391	0.391	0.348	0.627
	Off	Left Tilt	0.092	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.362	0.550	0.498	0.597	0.597	0.295	0.800
	Off	Right Cheek	0.108	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.267	0.320	0.256	0.296	0.320	0.223	0.434
	Off	Right Tilt	0.072	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.239	0.331	0.270	0.325	0.331	0.192	0.451
LTE B26	Off	Left Cheek	0.198	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.525	0.463	0.421	0.477	0.477	0.434	0.713
	Off	Left Tilt	0.105	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.375	0.563	0.511	0.610	0.610	0.308	0.813

	Off	Right Cheek	0.166	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.325	0.378	0.314	0.354	0.378	0.280	0.492
	Off	Right Tilt	0.088	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.255	0.347	0.286	0.341	0.347	0.208	0.467
LTE	Off	Left Cheek	0.081	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.408	0.346	0.304	0.360	0.360	0.317	0.596
	Off	Left Tilt	0.075	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.345	0.533	0.481	0.580	0.580	0.278	0.783
B66	Off	Right Cheek	0.076	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.235	0.288	0.224	0.264	0.288	0.191	0.402
	Off	Right Tilt	0.073	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.239	0.332	0.270	0.326	0.332	0.193	0.452
LTE	Off	Left Cheek	0.063	0.327	0.265	0.222	0.279	0.279	0.236	0.515	0.390	0.328	0.286	0.342	0.342	0.299	0.578
	Off	Left Tilt	0.052	0.270	0.458	0.406	0.505	0.505	0.203	0.708	0.321	0.510	0.457	0.557	0.557	0.255	0.760
	Off	Right Cheek	0.083	0.159	0.212	0.148	0.188	0.212	0.114	0.326	0.242	0.294	0.230	0.271	0.294	0.197	0.409
	Off	Right Tilt	0.058	0.167	0.259	0.197	0.253	0.259	0.120	0.379	0.224	0.317	0.255	0.311	0.317	0.178	0.437

Note: The highest Summed 1g SAR is 0.813 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

12.2.5 Hotspot Simultaneous Transmission SAR Evaluation for WWAN DAT of Down Antenna

Band	Power Reduction	Position	Stand alone SAR						SUM SAR					
			WWAN	2.4GWIFI	5.2GWIFI	5.8GWIFI	5G WIFI	Bluetooth	WWAN+2.4G WIFI	WWAN+5.2G WIFI	WWAN+5.8G WIFI	WWAN+5G WIFI	WWAN + Bluetooth	WWAN+5G WIFI +Bluetooth
GSM 850	Level8&9	Front Side 10mm	0.139	0.065	0.058	0.173	0.173	0.015	0.204	0.197	0.312	0.312	0.154	0.327
	Level8&9	Back Side 10mm	0.212	0.098	0.070	0.201	0.201	0.024	0.311	0.282	0.414	0.414	0.236	0.437
	Level8&9	Left Edge 10mm	0.050	0.034	0.027	0.079	0.079	0.006	0.084	0.077	0.129	0.129	0.056	0.135
	Level8&9	Right Edge 10mm	0.095	0.012	0.003	0.006	0.006	0.001	0.106	0.098	0.101	0.101	0.096	0.102
	Level8&9	Bottom Edge 10mm	0.183	0.000	0.000	0.000	0.000	0.022	0.183	0.183	0.183	0.183	0.205	0.205
GSM 1900	Level8&9	Front Side 10mm	0.095	0.065	0.058	0.173	0.173	0.015	0.160	0.153	0.268	0.268	0.110	0.283
	Level8&9	Back Side 10mm	0.179	0.098	0.070	0.201	0.201	0.024	0.278	0.249	0.380	0.380	0.203	0.404
	Level8&9	Left Edge 10mm	0.040	0.034	0.027	0.079	0.079	0.006	0.074	0.067	0.119	0.119	0.046	0.124
	Level8&9	Right Edge 10mm	0.028	0.012	0.003	0.006	0.006	0.001	0.040	0.031	0.034	0.034	0.029	0.036
	Level8&9	Bottom Edge 10mm	0.280	0.000	0.000	0.000	0.000	0.022	0.280	0.280	0.280	0.280	0.303	0.303
WCD MA B2	Level8&9	Front Side 10mm	0.083	0.065	0.058	0.173	0.173	0.015	0.148	0.141	0.256	0.256	0.099	0.271
	Level8&9	Back Side 10mm	0.134	0.098	0.070	0.201	0.201	0.024	0.233	0.204	0.335	0.335	0.158	0.359
	Level8&9	Left Edge 10mm	0.048	0.034	0.027	0.079	0.079	0.006	0.082	0.075	0.126	0.126	0.053	0.132
	Level8&9	Right Edge 10mm	0.034	0.012	0.003	0.006	0.006	0.001	0.046	0.038	0.041	0.041	0.036	0.042
	Level8&9	Bottom Edge 10mm	0.247	0.000	0.000	0.000	0.000	0.022	0.247	0.247	0.247	0.247	0.270	0.270
WCD MA B4	Level8&9	Front Side 10mm	0.059	0.065	0.058	0.173	0.173	0.015	0.123	0.117	0.231	0.231	0.074	0.247
	Level8&9	Back Side 10mm	0.172	0.098	0.070	0.201	0.201	0.024	0.271	0.242	0.373	0.373	0.196	0.397
	Level8&9	Left Edge 10mm	0.045	0.034	0.027	0.079	0.079	0.006	0.079	0.072	0.123	0.123	0.050	0.129
	Level8&9	Right Edge 10mm	0.037	0.012	0.003	0.006	0.006	0.001	0.049	0.040	0.043	0.043	0.038	0.044
	Level8&9	Bottom Edge 10mm	0.183	0.000	0.000	0.000	0.000	0.022	0.183	0.183	0.183	0.183	0.205	0.205
WCD MA B5	Level8&9	Front Side 10mm	0.108	0.065	0.058	0.173	0.173	0.015	0.173	0.166	0.281	0.281	0.123	0.296
	Level8&9	Back Side 10mm	0.148	0.098	0.070	0.201	0.201	0.024	0.247	0.218	0.349	0.349	0.172	0.373
	Level8&9	Left Edge 10mm	0.033	0.034	0.027	0.079	0.079	0.006	0.067	0.060	0.111	0.111	0.038	0.117
	Level8&9	Right Edge 10mm	0.083	0.012	0.003	0.006	0.006	0.001	0.094	0.086	0.089	0.089	0.084	0.090

	Level8&9	Bottom Edge 10mm	0.133	0.000	0.000	0.000	0.000	0.022	0.133	0.133	0.133	0.133	0.156	0.156
LTE B2	Level8&9	Front Side 10mm	0.083	0.065	0.058	0.173	0.173	0.015	0.148	0.141	0.256	0.256	0.099	0.271
	Level8&9	Back Side 10mm	0.132	0.098	0.070	0.201	0.201	0.024	0.230	0.202	0.333	0.333	0.156	0.357
	Level8&9	Left Edge 10mm	0.064	0.034	0.027	0.079	0.079	0.006	0.098	0.091	0.143	0.143	0.070	0.148
	Level8&9	Right Edge 10mm	0.049	0.012	0.003	0.006	0.006	0.001	0.061	0.052	0.055	0.055	0.050	0.056
	Level8&9	Bottom Edge 10mm	0.309	0.000	0.000	0.000	0.000	0.022	0.309	0.309	0.309	0.309	0.331	0.331
LTE B4	Level8&9	Front Side 10mm	0.092	0.065	0.058	0.173	0.173	0.015	0.157	0.151	0.265	0.265	0.108	0.281
	Level8&9	Back Side 10mm	0.260	0.098	0.070	0.201	0.201	0.024	0.358	0.329	0.461	0.461	0.283	0.484
	Level8&9	Left Edge 10mm	0.039	0.034	0.027	0.079	0.079	0.006	0.073	0.066	0.118	0.118	0.045	0.123
	Level8&9	Right Edge 10mm	0.047	0.012	0.003	0.006	0.006	0.001	0.058	0.050	0.053	0.053	0.048	0.054
	Level8&9	Bottom Edge 10mm	0.312	0.000	0.000	0.000	0.000	0.022	0.312	0.312	0.312	0.312	0.335	0.335
LTE B7	Level8&9	Front Side 10mm	0.232	0.065	0.058	0.173	0.173	0.015	0.297	0.290	0.405	0.405	0.248	0.420
	Level8&9	Back Side 10mm	0.326	0.098	0.070	0.201	0.201	0.024	0.424	0.395	0.527	0.527	0.349	0.550
	Level8&9	Left Edge 10mm	0.202	0.034	0.027	0.079	0.079	0.006	0.236	0.229	0.280	0.280	0.207	0.286
	Level8&9	Right Edge 10mm	0.043	0.012	0.003	0.006	0.006	0.001	0.055	0.046	0.049	0.049	0.045	0.051
	Level8&9	Bottom Edge 10mm	0.210	0.000	0.000	0.000	0.000	0.022	0.210	0.210	0.210	0.210	0.232	0.232
LTE B12	Level8&9	Front Side 10mm	0.152	0.065	0.058	0.173	0.173	0.015	0.216	0.210	0.325	0.325	0.167	0.340
	Level8&9	Back Side 10mm	0.229	0.098	0.070	0.201	0.201	0.024	0.328	0.299	0.430	0.430	0.253	0.454
	Level8&9	Left Edge 10mm	0.085	0.034	0.027	0.079	0.079	0.006	0.119	0.112	0.163	0.163	0.090	0.169
	Level8&9	Right Edge 10mm	0.082	0.012	0.003	0.006	0.006	0.001	0.094	0.086	0.089	0.089	0.084	0.090
	Level8&9	Bottom Edge 10mm	0.110	0.000	0.000	0.000	0.000	0.022	0.110	0.110	0.110	0.110	0.132	0.132
LTE B26	Level8&9	Front Side 10mm	0.089	0.065	0.058	0.173	0.173	0.015	0.153	0.147	0.261	0.261	0.104	0.277
	Level8&9	Back Side 10mm	0.144	0.098	0.070	0.201	0.201	0.024	0.242	0.214	0.345	0.345	0.168	0.369
	Level8&9	Left Edge 10mm	0.063	0.034	0.027	0.079	0.079	0.006	0.097	0.090	0.141	0.141	0.068	0.147
	Level8&9	Right Edge 10mm	0.064	0.012	0.003	0.006	0.006	0.001	0.076	0.067	0.070	0.070	0.065	0.071
	Level8&9	Bottom Edge 10mm	0.112	0.000	0.000	0.000	0.000	0.022	0.112	0.112	0.112	0.112	0.134	0.134
LTE B66	Level8&9	Front Side 10mm	0.091	0.065	0.058	0.173	0.173	0.015	0.156	0.149	0.264	0.264	0.106	0.279
	Level8&9	Back Side 10mm	0.256	0.098	0.070	0.201	0.201	0.024	0.355	0.326	0.457	0.457	0.280	0.481
	Level8&9	Left Edge 10mm	0.038	0.034	0.027	0.079	0.079	0.006	0.072	0.065	0.117	0.117	0.044	0.122
	Level8&9	Right Edge 10mm	0.046	0.012	0.003	0.006	0.006	0.001	0.058	0.049	0.052	0.052	0.048	0.054
	Level8&9	Bottom Edge 10mm	0.308	0.000	0.000	0.000	0.000	0.022	0.308	0.308	0.308	0.308	0.330	0.330
LTE B41	Level8&9	Front Side 10mm	0.214	0.065	0.058	0.173	0.173	0.015	0.279	0.272	0.387	0.387	0.229	0.402
	Level8&9	Back Side 10mm	0.296	0.098	0.070	0.201	0.201	0.024	0.395	0.366	0.497	0.497	0.320	0.521
	Level8&9	Left Edge 10mm	0.136	0.034	0.027	0.079	0.079	0.006	0.170	0.163	0.214	0.214	0.141	0.220
	Level8&9	Right Edge 10mm	0.037	0.012	0.003	0.006	0.006	0.001	0.049	0.040	0.043	0.043	0.039	0.045
	Level8&9	Bottom Edge 10mm	0.111	0.000	0.000	0.000	0.000	0.022	0.111	0.111	0.111	0.111	0.134	0.134

Note: The highest Summed 1g SAR is 0.550 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

13 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: 1055	2017/06/26	2020/06/25
835MHz Validation Dipole	Speag	D835V2	SN: 4d187	2017/06/26	2020/06/25
1750MHz Validation Dipole	Speag	D1750V2	SN: 1130	2017/07/01	2020/06/30
1900MHz Validation Dipole	Speag	D1900V2	SN: 5d193	2017/06/30	2020/06/29
2450MHz Validation Dipole	Speag	D2450V2	SN: 952	2019/06/10	2020/06/09
2600MHz Validation Dipole	Speag	D2600V2	SN: 1095	2017/07/10	2020/07/09
5GHz Validation Dipole	Speag	D5GHzV2	SN: 1200	2017/06/29	2020/06/28
E-Field Probe	Speag	EX3DV4	SN: 7510	2019/08/02	2020/08/01
Data Acquisition Electronics	Speag	DAE4	SN: 1454	2019/08/02	2020/08/01
Signal Generator	R&S	SMBV100A	260592	2019/06/14	2020/06/13
Power Meter	R&S	NRVD-B2	7250BJ-0112/2011	2019/10/30	2020/10/29
Power Sensor	R&S	NRV-Z4	100381	2019/10/30	2020/10/29
Power Sensor	R&S	NRV-Z2	100211	2019/10/30	2020/10/29
Wireless Communication Test Set	Agilent	8960-E5515C	MY50260493	2019/06/13	2020/06/13
Wireless Communication Test Set	R&S	CMW 500	104946	2019/10/30	2020/10/29
Network Analyzer	R&S	ZVL-6	101380	2019/06/20	2020/06/19
Thermometer	Elitech	RC-4HC	N/A	2019/11/02	2020/11/01
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Dielectric Probe Kit	SATIMO	SCLMP	SN 25/13 OCPG56	N/A	N/A
Phantom1	Speag	SAM	SN: 1859	N/A	N/A
Phantom2	Speag	SAM	SN: 1857	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.

Date	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 (%)
2020.03.05	Head	750	21.2	0.92	41.06	0.89	41.90	3.37	-2.00
2020.03.14	Head	750	21.2	0.91	42.36	0.89	41.90	2.25	1.10
2020.03.13	Head	835	21.3	0.92	41.20	0.90	41.50	2.22	-0.72
2020.03.15	Head	835	21.1	0.93	41.52	0.90	41.50	3.33	0.05
2020.03.06	Head	835	21.3	0.91	42.36	0.90	41.50	1.11	2.07
2020.03.16	Head	835	21.3	0.92	40.19	0.90	41.50	2.22	-3.16
2020.03.17	Head	1750	21.2	1.40	39.99	1.37	40.08	2.19	-0.22
2020.03.09	Head	1750	21.3	1.40	40.95	1.37	40.08	2.19	2.17
2020.03.18	Head	1750	21.4	1.41	39.92	1.37	40.08	2.92	-0.40
2020.03.02	Head	1900	21.4	1.43	39.75	1.40	40.00	2.14	-0.63
2020.03.10	Head	1900	21.2	1.41	41.36	1.40	40.00	0.71	3.40
2020.03.11	Head	1900	21.3	1.39	40.25	1.40	40.00	-0.71	0.63
2020.03.19	Head	1900	21.3	1.43	40.79	1.40	40.00	2.14	1.98
2020.03.27	Head	2450	21.1	1.78	38.59	1.80	39.20	-1.11	-1.56
2020.03.25	Head	2600	20.8	1.96	37.34	1.96	39.01	0.00	-4.28
2020.03.20	Head	2600	21.2	2.02	39.57	1.96	39.01	3.06	1.44
2020.03.26	Head	2600	21.0	1.97	38.02	1.96	39.01	0.51	-2.54
2020.03.21	Head	2600	20.9	1.99	40.04	1.96	39.01	1.53	2.64
2020.03.28	Head	5250	21.2	4.71	36.67	4.71	35.93	0.00	2.06
2020.03.29	Head	5250	21.2	4.80	35.47	4.71	35.93	1.91	-1.28
2020.03.30	Head	5600	21.1	5.13	36.29	5.07	35.53	1.18	2.14
2020.03.31	Head	5750	21.1	5.36	34.75	5.22	35.36	2.68	-1.73

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).

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)	Targeted SAR(W/kg)	Tolerance (%)
2020.03.05	Head	750	100	0.821	8.21	8.27	-0.73	8.49	-3.30
2020.03.14	Head	750	100	0.815	8.15	8.27	-1.45	8.49	-4.00
2020.03.13	Head	835	100	0.962	9.62	9.75	-1.33	9.56	0.63
2020.03.15	Head	835	100	0.991	9.91	9.75	1.64	9.56	3.66
2020.03.06	Head	835	100	1.010	10.10	9.75	3.59	9.56	5.65
2020.03.16	Head	835	100	1.030	10.30	9.75	5.64	9.56	7.74
2020.03.17	Head	1750	100	3.690	36.90	36.90	0.00	36.40	1.37
2020.03.09	Head	1750	100	3.740	37.40	36.90	1.36	36.40	2.75
2020.03.18	Head	1750	100	3.520	35.20	36.90	-4.61	36.40	-3.30
2020.03.02	Head	1900	100	3.840	38.40	39.90	-3.76	39.70	-3.27
2020.03.10	Head	1900	100	3.720	37.20	39.90	-6.77	39.70	-6.30
2020.03.11	Head	1900	100	3.850	38.50	39.90	-3.51	39.70	-3.02
2020.03.19	Head	1900	100	3.750	37.50	39.90	-6.02	39.70	-5.54
2020.03.27	Head	2450	100	5.350	53.50	52.60	1.71	52.40	2.10
2020.03.25	Head	2600	100	5.210	52.10	56.40	-7.62	55.30	-5.79
2020.03.20	Head	2600	100	5.180	51.80	56.40	-8.16	55.30	-6.33
2020.03.26	Head	2600	100	5.690	56.90	56.40	0.89	55.30	2.89
2020.03.21	Head	2600	100	5.590	55.90	56.40	-0.89	55.30	1.08
2020.03.28	Head	5250	100	7.290	72.90	76.20	-4.33	76.50	-4.71
2020.03.29	Head	5250	100	7.350	73.50	76.20	-3.54	76.50	-3.92
2020.03.30	Head	5600	100	8.020	80.20	82.60	-2.91	83.30	-3.72
2020.03.31	Head	5750	100	8.270	82.70	80.80	2.35	78.00	6.03

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

System Performance Check Data (750MHz Head)

Date: 2020.03.05

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

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.915 \text{ S/m}$; $\epsilon_r = 41.056$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.35, 10.35, 10.35); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 750 100mW/Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.918 W/kg

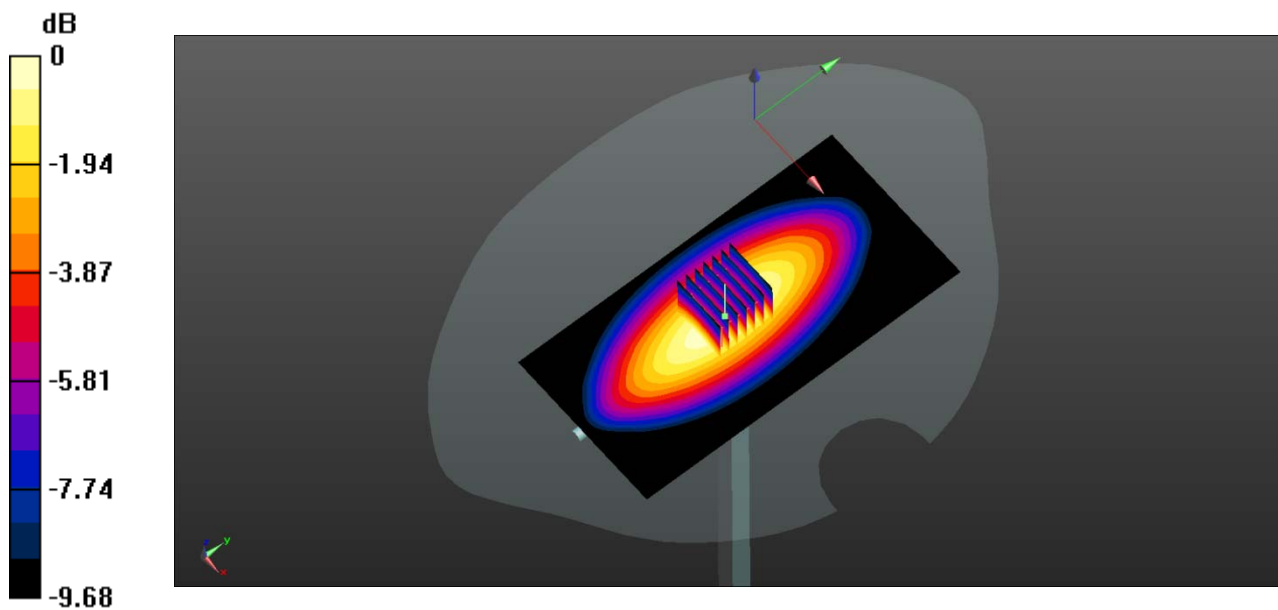
CW 750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.12 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.821 W/kg; SAR(10 g) = 0.535 W/kg

Maximum value of SAR (measured) = 0.917 W/kg



0 dB = 0.917 W/kg

System Performance Check Data (750MHz Head)

Date: 2020.03.14

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

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.908 \text{ S/m}$; $\epsilon_r = 42.358$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.35, 10.35, 10.35); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

CW 750 100mW/Area Scan (61x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.918 W/kg

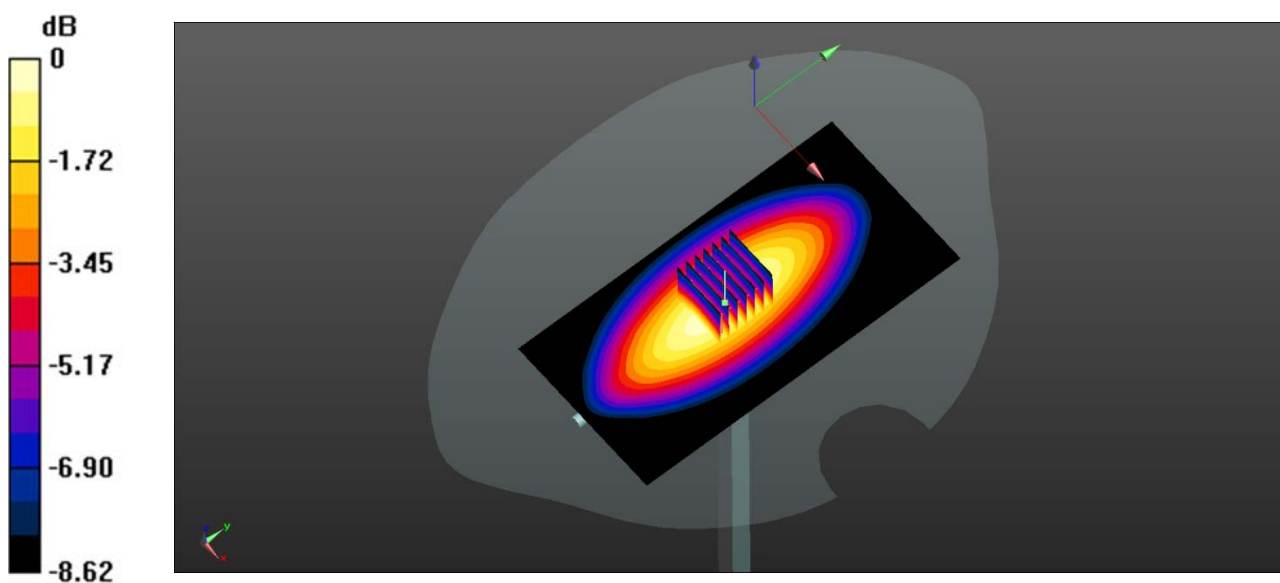
CW 750 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.27 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.15 W/kg

SAR(1 g) = 0.815 W/kg; SAR(10 g) = 0.528 W/kg

Maximum value of SAR (measured) = 0.912 W/kg



0 dB = 0.912 W/kg

System Performance Check Data (835MHz Head)

Date: 2020.03.13

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.918$ S/m; $\epsilon_r = 41.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- 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 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.995 W/kg

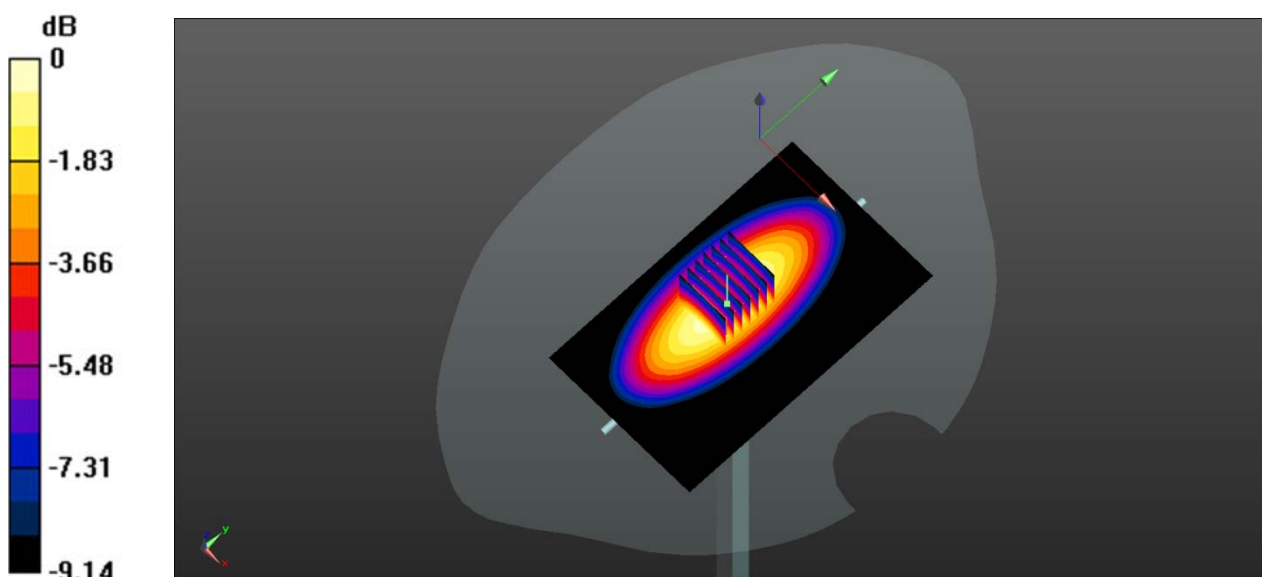
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.54 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.962 W/kg; SAR(10 g) = 0.626 W/kg

Maximum value of SAR (measured) = 0.993 W/kg



0 dB = 0.993 W/kg

System Performance Check Data (835MHz Head)

Date: 2020.03.15

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.929 \text{ S/m}$; $\epsilon_r = 41.521$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- 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) = 1.04 W/kg

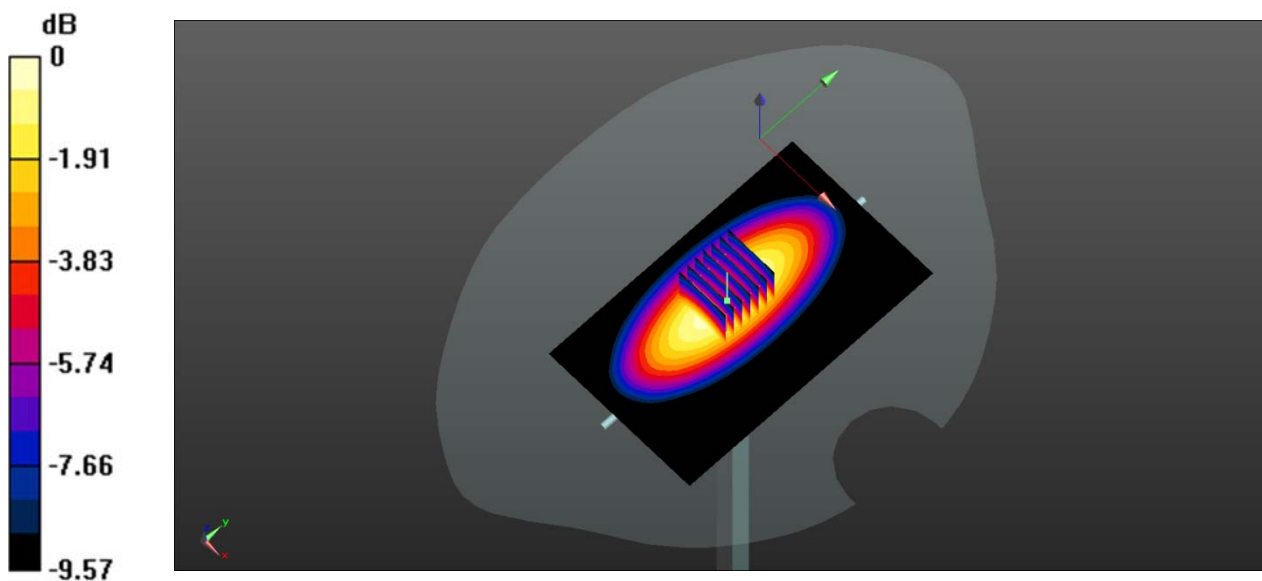
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 32.44 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.991 W/kg; SAR(10 g) = 0.640 W/kg

Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg

System Performance Check Data (835MHz Head)

Date: 2020.03.06

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.914$ S/m; $\epsilon_r = 42.358$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- 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 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.08 W/kg

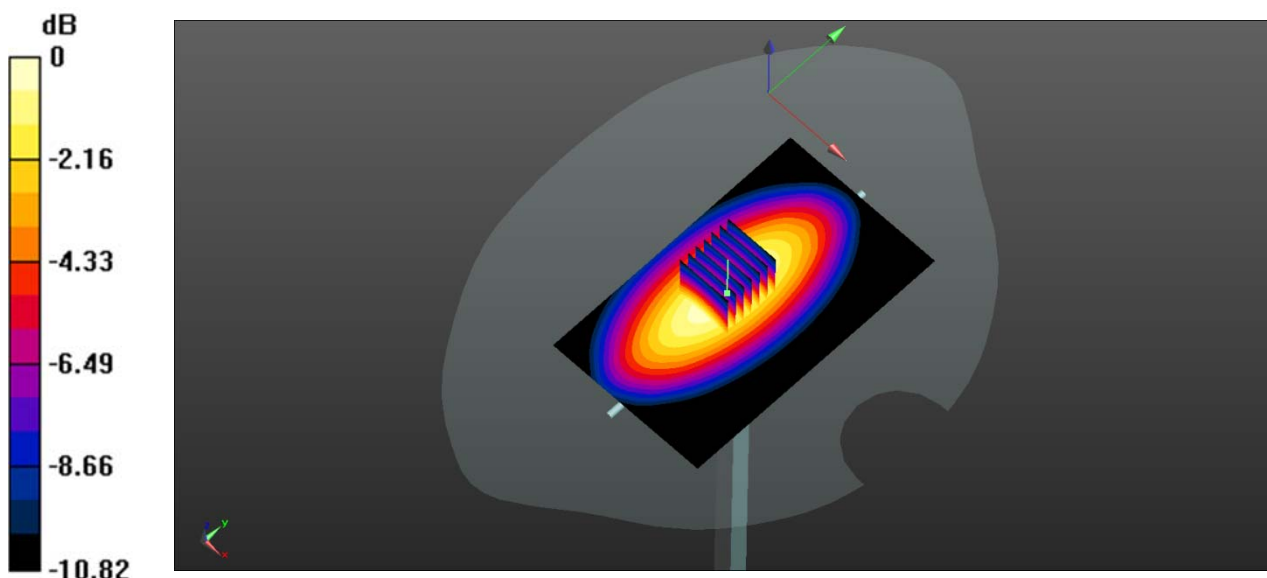
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 32.75 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.653 W/kg

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg

System Performance Check Data (835MHz Head)

Date: 2020.03.16

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

Medium parameters used: $f = 835$ MHz; $\sigma = 0.918$ S/m; $\epsilon_r = 40.185$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- 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 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.15 W/kg

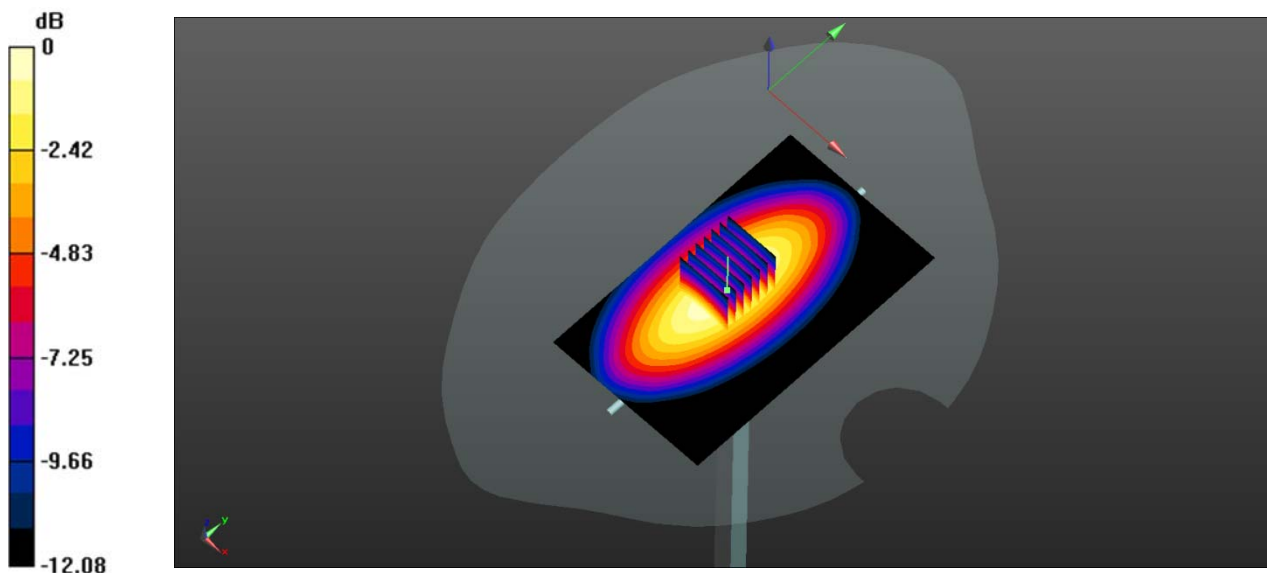
CW 835 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.54 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.21 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.658 W/kg

Maximum value of SAR (measured) = 1.13 W/kg



0 dB = 1.13W/kg

System Performance Check Data (1750MHz Head)

Date: 2020.03.17

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.4$ S/m; $\epsilon_r = 39.985$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- 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) = 4.05 W/kg

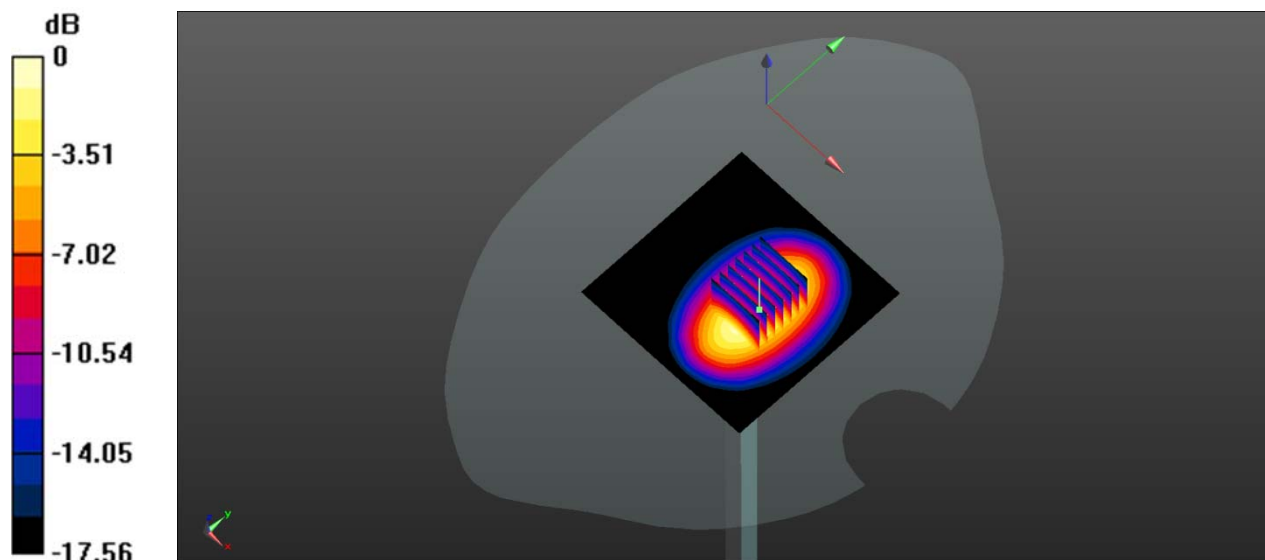
CW 1750 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 37.98 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 7.24 W/kg

SAR(1 g) = 3.69 W/kg; SAR(10 g) = 1.93 W/kg

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



0 dB = 4.01 W/kg

System Performance Check Data (1750MHz Head)

Date: 2020.03.09

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.398$ S/m; $\epsilon_r = 40.954$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- 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) = 3.99 W/kg

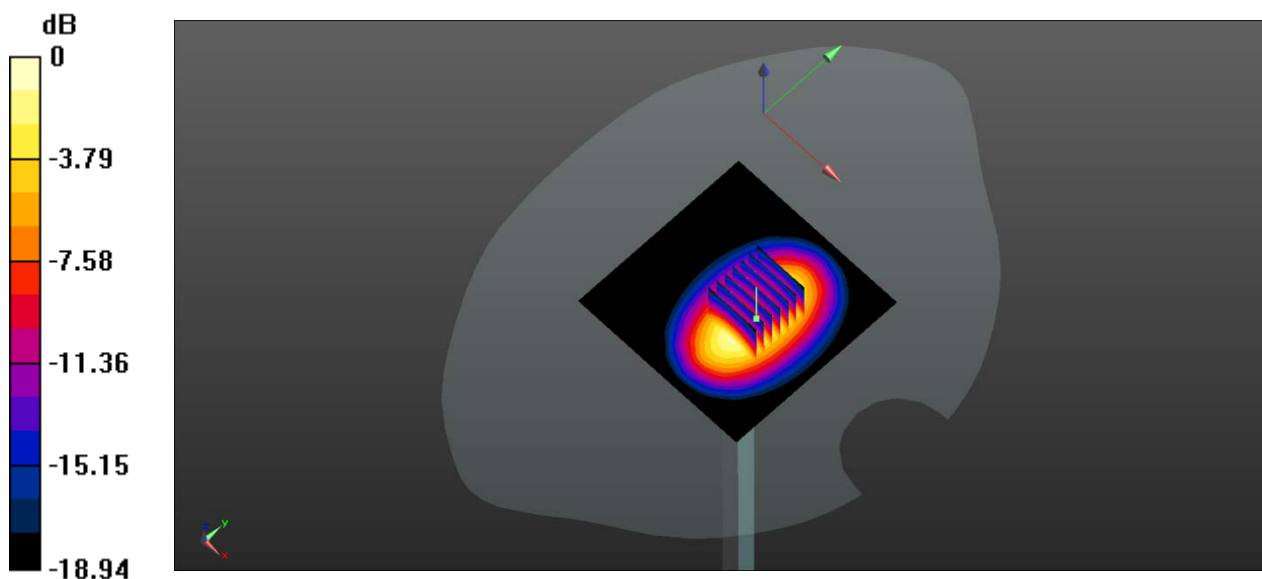
CW 1750 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 38.17 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 7.45 W/kg

SAR(1 g) = 3.74 W/kg; SAR(10 g) = 1.98 W/kg

Maximum value of SAR (measured) = 4.02 W/kg



0 dB = 4.02 W/kg

System Performance Check Data (1750MHz Head)

Date: 2020.03.18

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

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.413$ S/m; $\epsilon_r = 39.919$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.6 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- 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) = 3.97 W/kg

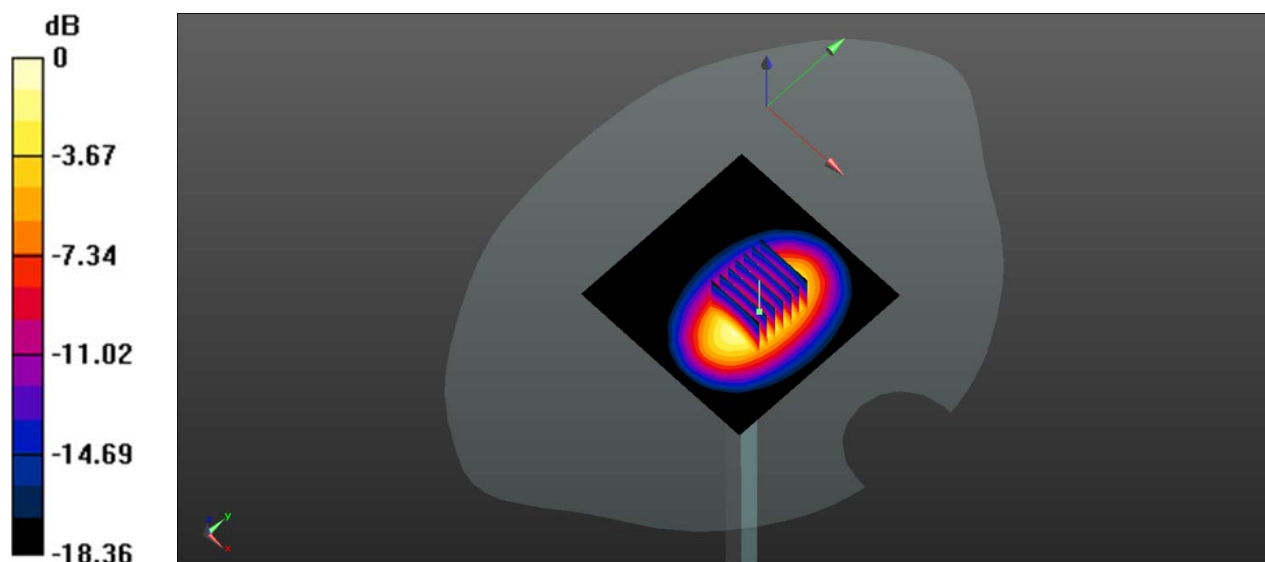
CW 1750 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 37.84 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 7.05 W/kg

SAR(1 g) = 3.52 W/kg; SAR(10 g) = 1.91 W/kg

Maximum value of SAR (measured) = 3.98 W/kg



0 dB = 3.98 W/kg

System Performance Check Data (1900MHz Head)

Date: 2020.03.02

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.425$ S/m; $\epsilon_r = 39.751$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- 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) = 4.21 W/kg

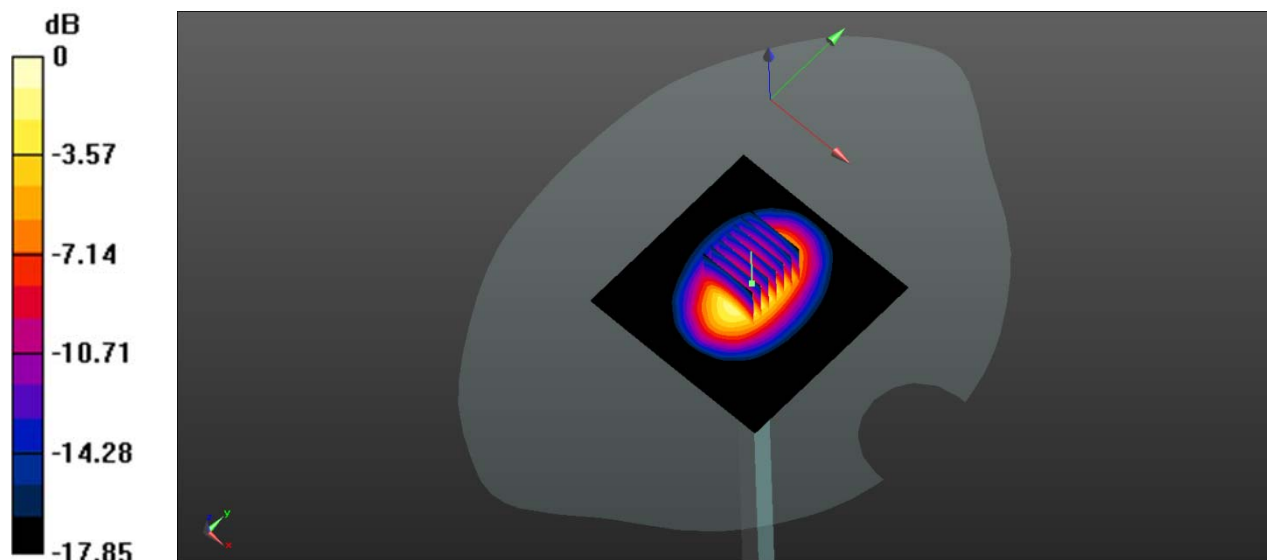
CW 1900 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.72 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 7.48 W/kg

SAR(1 g) = 3.84 W/kg; SAR(10 g) = 1.98 W/kg

Maximum value of SAR (measured) = 4.19 W/kg



0 dB = 4.19 W/kg

System Performance Check Data (1900MHz Head)

Date: 2020.03.10

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.413$ S/m; $\epsilon_r = 41.359$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- 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) = 4.05 W/kg

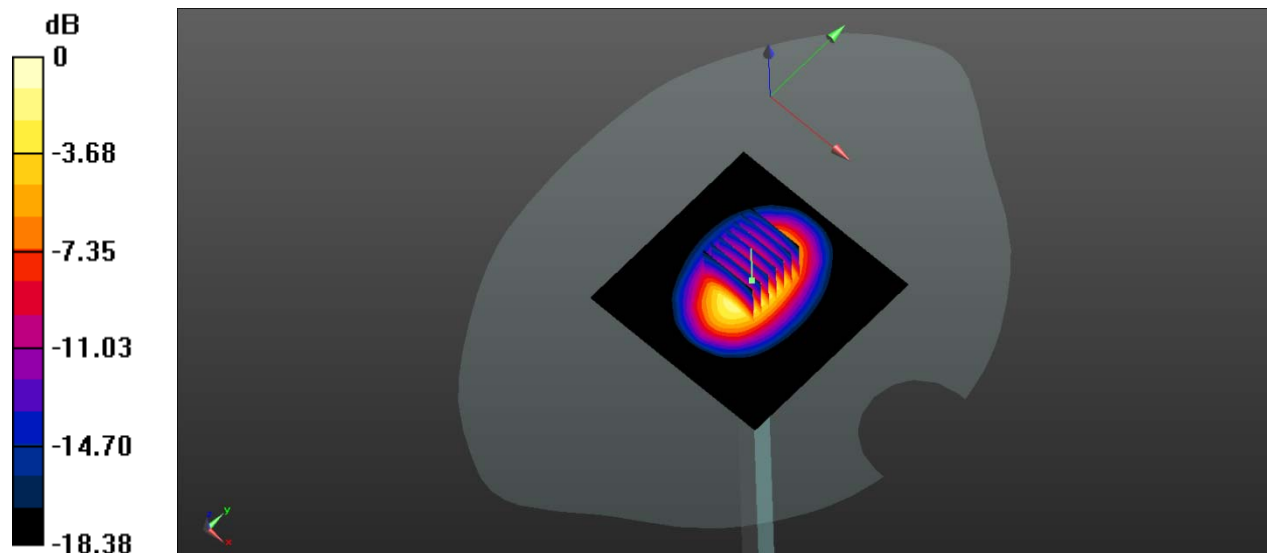
CW 1900 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.67 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 7.45 W/kg

SAR(1 g) = 3.72 W/kg; SAR(10 g) = 1.93 W/kg

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



0 dB = 4.01 W/kg

System Performance Check Data (1900MHz Head)

Date: 2020.03.11

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.387$ S/m; $\epsilon_r = 40.251$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.5 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- 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) = 4.01 W/kg

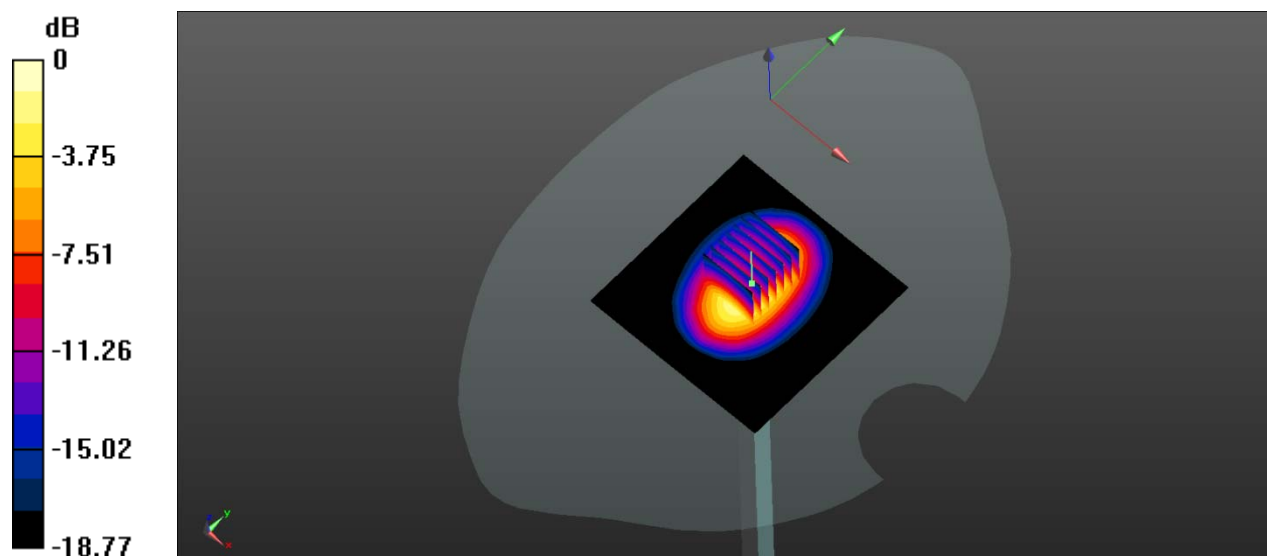
CW 1900 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.79 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 7.05 W/kg

SAR(1 g) = 3.85 W/kg; SAR(10 g) = 1.95 W/kg

Maximum value of SAR (measured) = 3.95 W/kg



0 dB = 3.95 W/kg

System Performance Check Data (1900MHz Head)

Date: 2020.03.19

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

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.429$ S/m; $\epsilon_r = 40.785$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- 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) = 3.91 W/kg

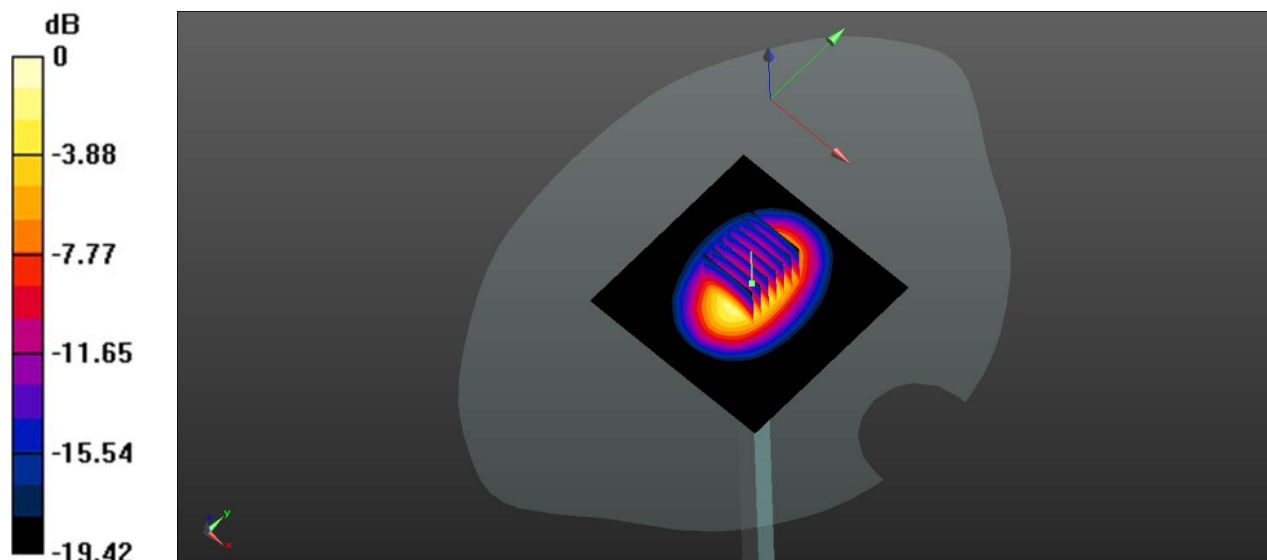
CW 1900 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.57 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 7.48 W/kg

SAR(1 g) = 3.75 W/kg; SAR(10 g) = 1.93 W/kg

Maximum value of SAR (measured) = 3.88 W/kg



0 dB = 3.88 W/kg

System Performance Check Data (2450MHz Head)

Date: 2020.03.27

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.779$ S/m; $\epsilon_r = 38.592$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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 2450 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.14 W/kg

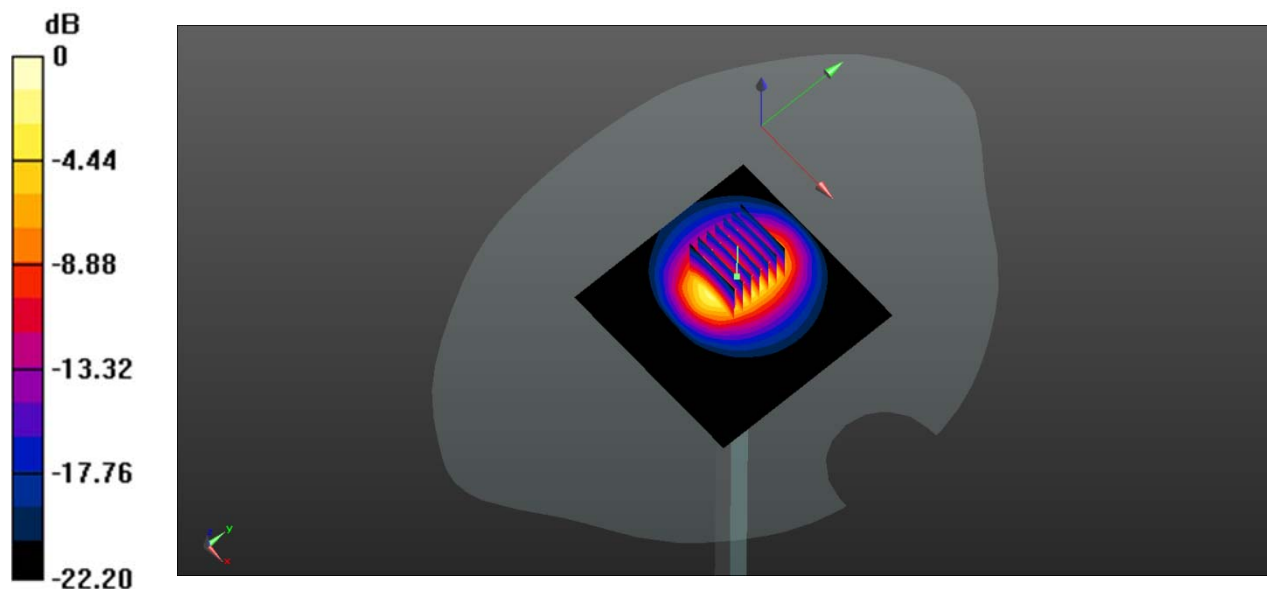
CW 2450 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 34.81 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 11.7 W/kg

SAR(1 g) = 5.35 W/kg; SAR(10 g) = 2.49 W/kg

Maximum value of SAR (measured) = 6.08 W/kg



0 dB = 6.08 W/kg

System Performance Check Data (2600MHz Head)

Date: 2020.03.25

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

Medium parameters used (extrapolated): $f = 2600$ MHz; $\sigma = 1.956$ S/m; $\epsilon_r = 37.339$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 20.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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 2600 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.21 W/kg

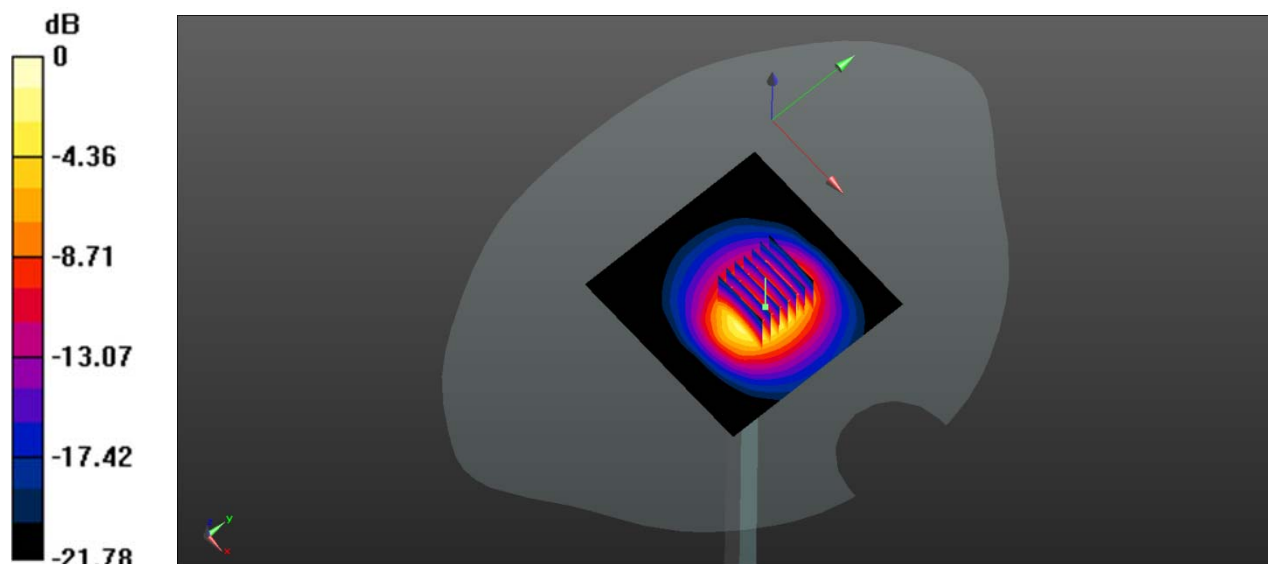
CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 37.38 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 5.21 W/kg; SAR(10 g) = 2.35 W/kg

Maximum value of SAR (measured) = 6.23 W/kg



0 dB = 6.23 W/kg

System Performance Check Data (2600MHz Head)

Date: 2020.03.20

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

Medium parameters used (extrapolated): $f = 2600$ MHz; $\sigma = 2.02$ S/m; $\epsilon_r = 39.571$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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 2600 100mw/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.21 W/kg

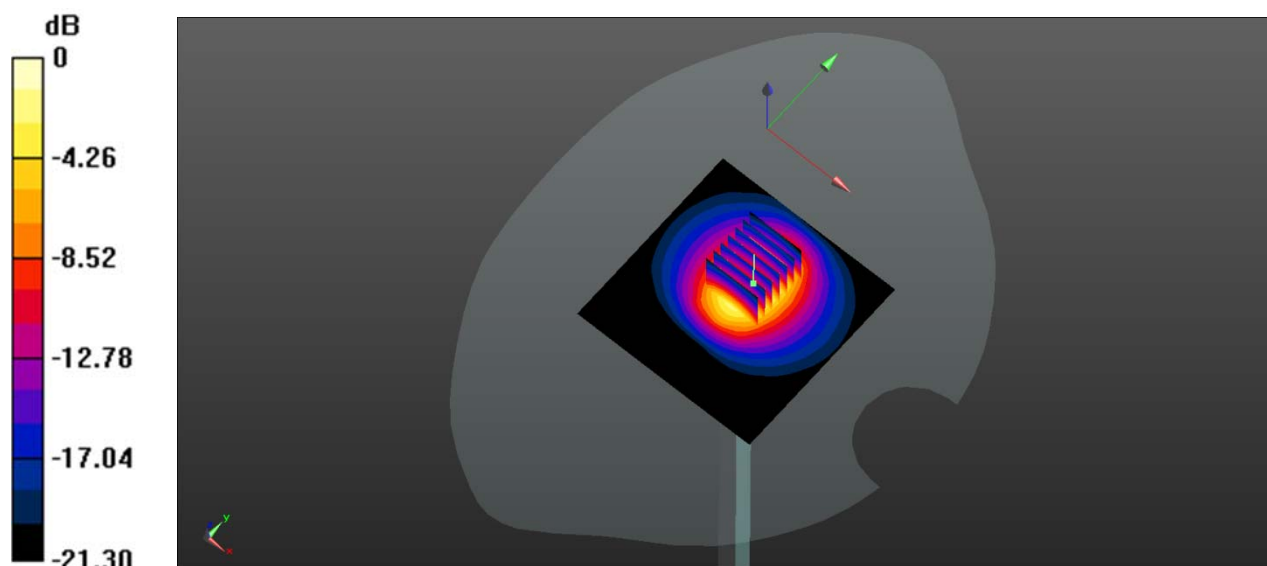
CW 2600 100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 47.85 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 12.5 W/kg

SAR(1 g) = 5.18 W/kg; SAR(10 g) = 2.31 W/kg

Maximum value of SAR (measured) = 6.21 W/kg



0 dB = 6.21 W/kg

System Performance Check Data (2600MHz Head)

Date: 2020.03.26

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

Medium parameters used (extrapolated): $f = 2600$ MHz; $\sigma = 1.971$ S/m; $\epsilon_r = 38.02$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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 2600 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.44 W/kg

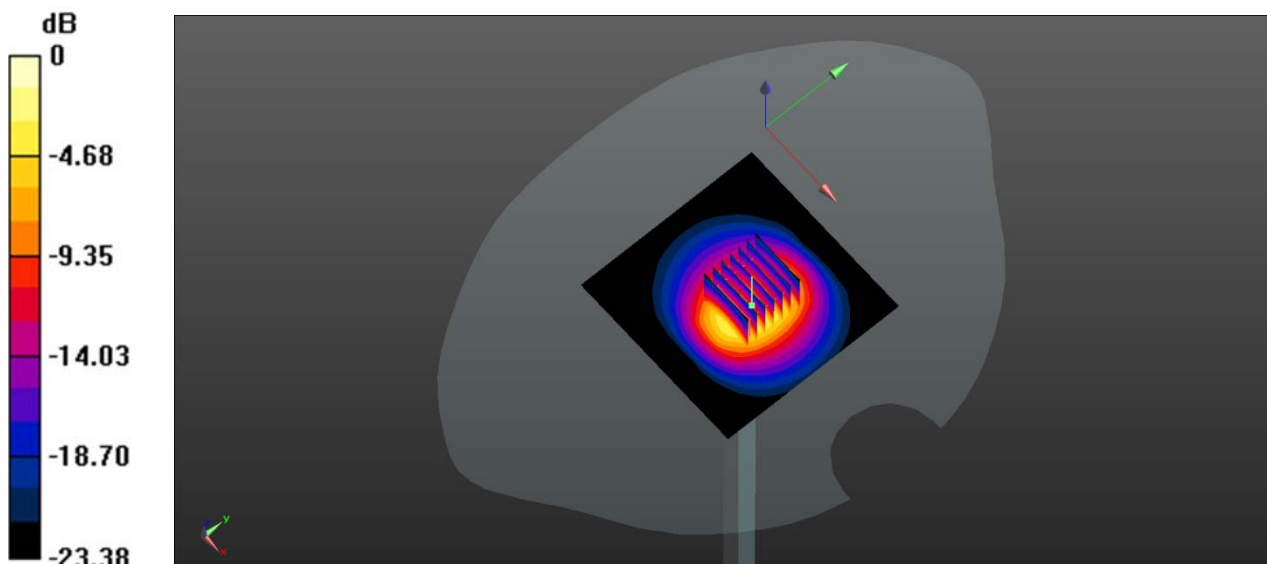
CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.05 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 12.8 W/kg

SAR(1 g) = 5.69 W/kg; SAR(10 g) = 2.53 W/kg

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



0 dB = 6.42 W/kg

System Performance Check Data (2600MHz Head)

Date: 2020.03.21

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

Medium parameters used (extrapolated): $f = 2600$ MHz; $\sigma = 1.986$ S/m; $\epsilon_r = 40.035$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.1 Liquid Temperature: 20.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.61, 7.61, 7.61); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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 2600 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.39 W/kg

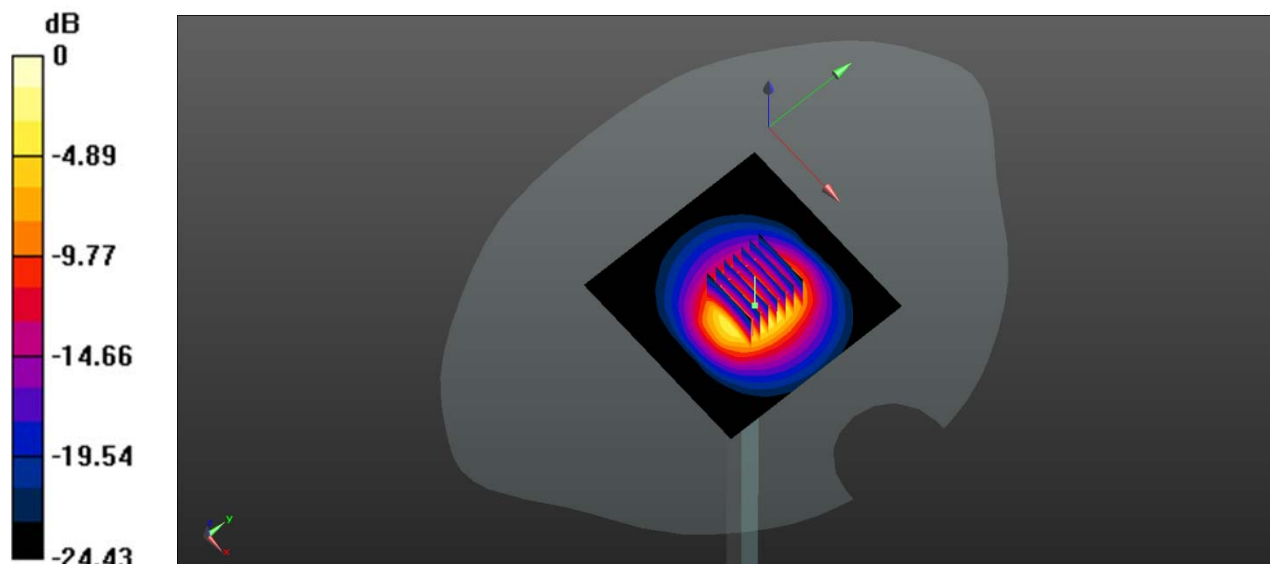
CW 2600 100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 47.83 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 12.4 W/kg

SAR(1 g) = 5.59 W/kg; SAR(10 g) = 2.49 W/kg

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



0 dB = 6.37 W/kg

System Performance Check Data (5250MHz Head)

Date: 2020.03.28

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

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.707$ S/m; $\epsilon_r = 36.674$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.51, 5.51, 5.51); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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 5250 100mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 7.79 W/kg

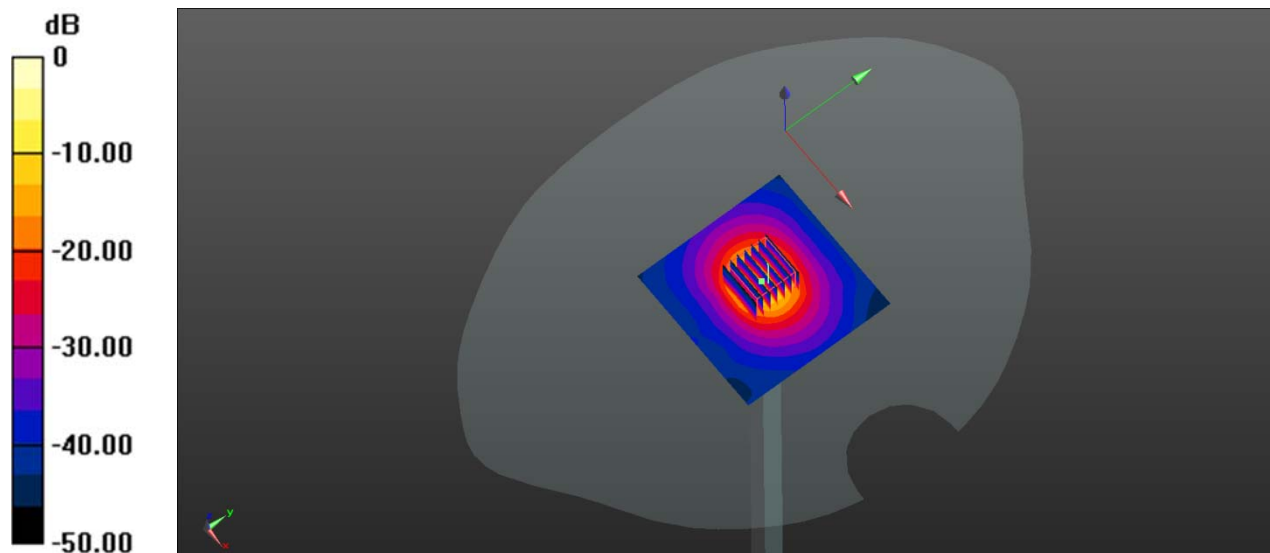
CW 5250 100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 38.21 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 41.8 W/kg

SAR(1 g) = 7.29 W/kg; SAR(10 g) = 2.09 W/kg

Maximum value of SAR (measured) = 15.1 W/kg



0 dB = 15.1 W/kg

System Performance Check Data (5250MHz Head)

Date: 2020.03.29

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

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.796$ S/m; $\epsilon_r = 35.47$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.4 Liquid Temperature: 21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.51, 5.51, 5.51); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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 5250 100mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 7.88 W/kg

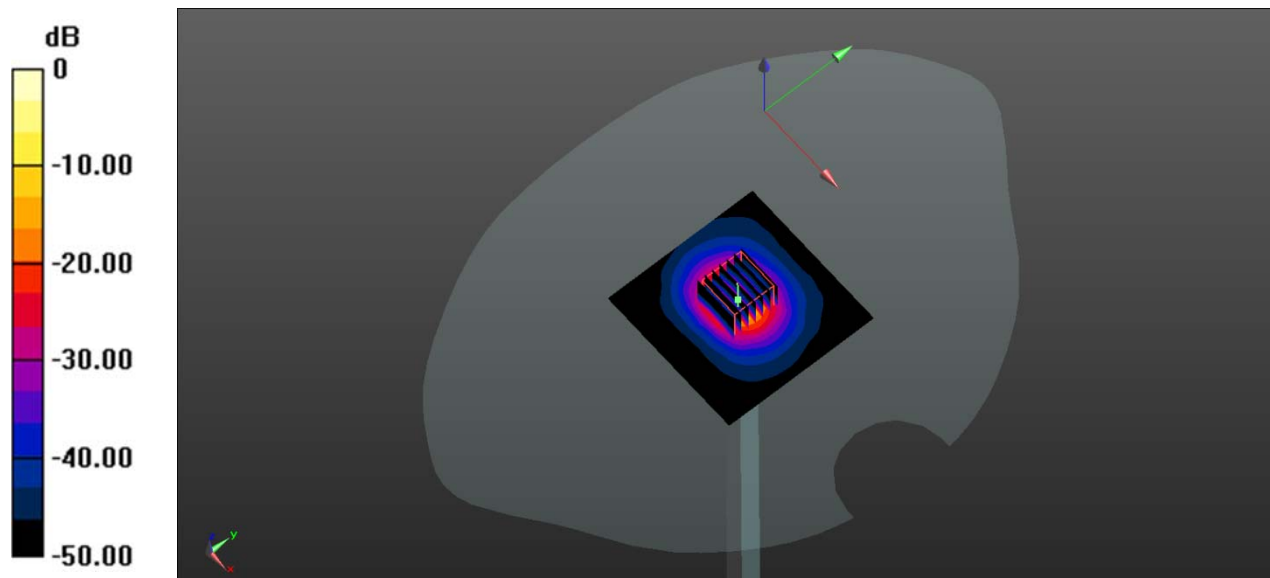
CW 5250 100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 38.45 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 42.1 W/kg

SAR(1 g) = 7.35 W/kg; SAR(10 g) = 2.11 W/kg

Maximum value of SAR (measured) = 15.3 W/kg



0 dB = 15.3 W/kg

System Performance Check Data (5600MHz Head)

Date: 2020.03.30

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

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.126$ S/m; $\epsilon_r = 36.287$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.3 Liquid Temperature: 21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.8, 4.8, 4.8); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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 5600 100mW/Area Scan (101x101x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.31 W/kg

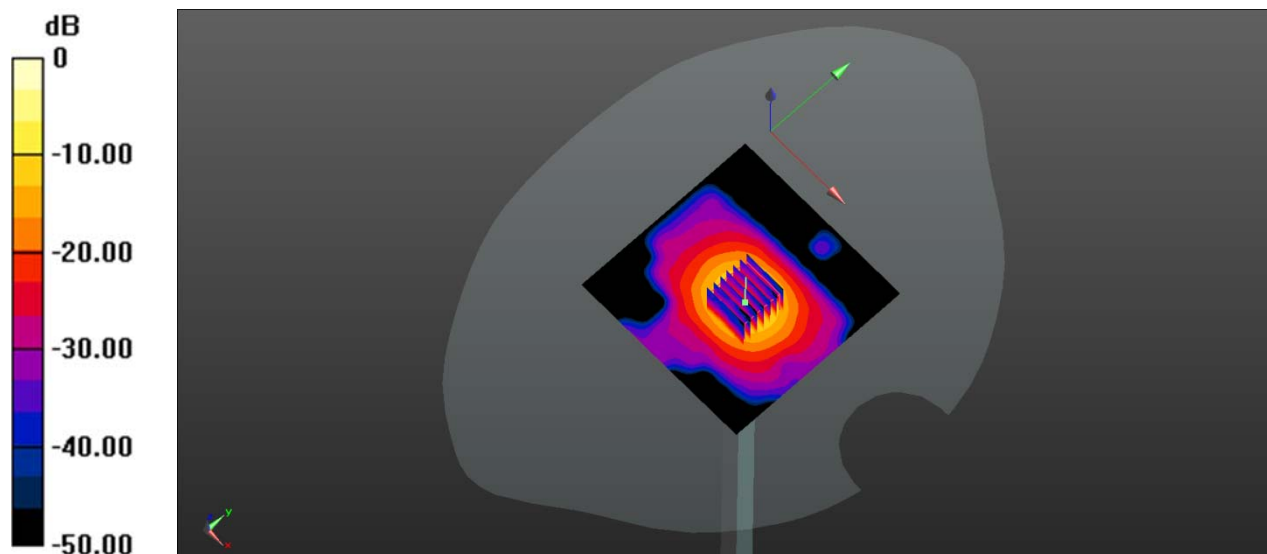
CW 5600 100mW/Zoom Scan (7x7x21)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 34.51 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 38.2 W/kg

SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.25 W/kg

Maximum value of SAR (measured) = 21.2 W/kg



System Performance Check Data (5750MHz Head)

Date: 2020.03.31

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

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.357$ S/m; $\epsilon_r = 34.745$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.2 Liquid Temperature: 21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.06, 5.06, 5.06); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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 5750 100mW/Area Scan (81x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 8.49 W/kg

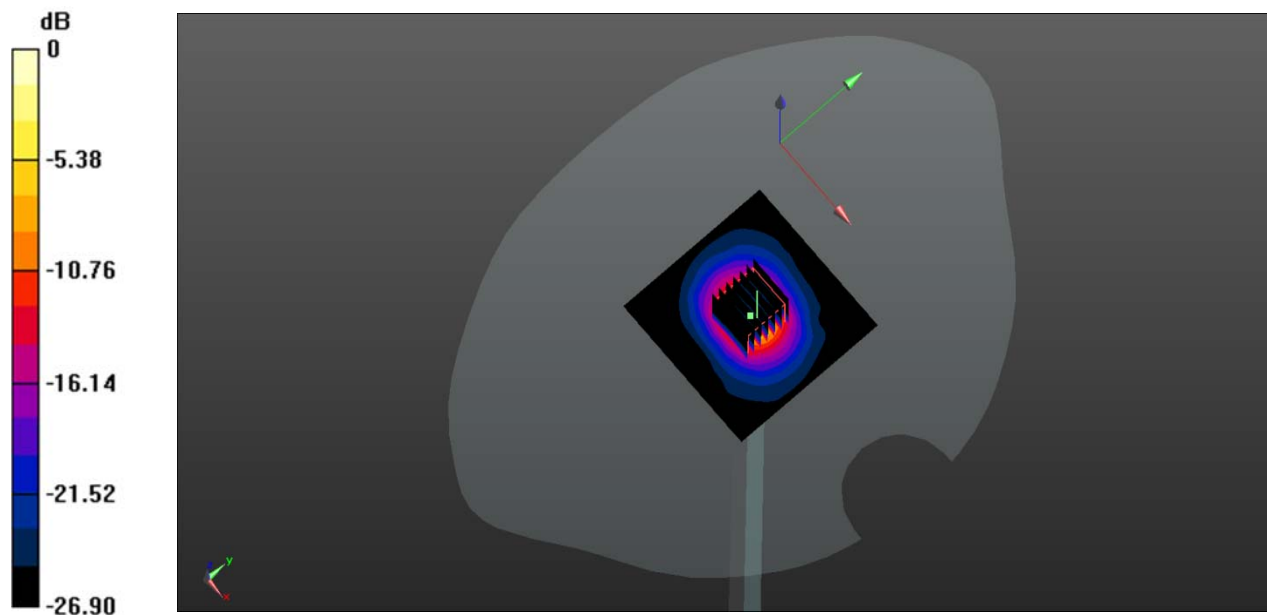
CW 5750 100mW/Zoom Scan (7x7x15)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 40.54 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 39.4 W/kg

SAR(1 g) = 8.27 W/kg; SAR(10 g) = 2.31 W/kg

Maximum value of SAR (measured) = 15.9 W/kg



0 dB = 15.9 W/kg

ANNEX C TEST DATA

MEAS.1 Right Head with Cheek on High Channel in GPRS850 4Slots mode with Up Antenna

Date: 2020.03.13

Communication System Band: GPRS850; Frequency: 848.8 MHz; Duty Cycle: 1:2.08

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.946$ S/m; $\epsilon_r = 41.04$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 251/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.244 W/kg

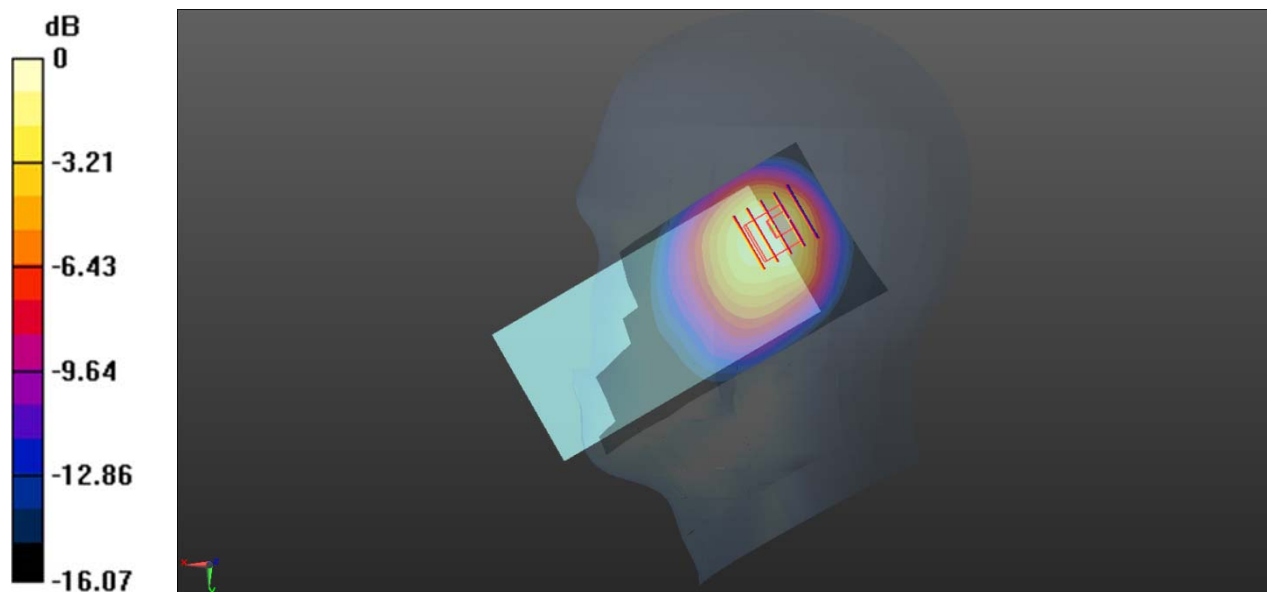
Ch 251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.30 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.420 W/kg

SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.122 W/kg

Maximum value of SAR (measured) = 0.221 W/kg



0 dB = 0.221 W/kg

MEAS.2 Body Plane with Back Side 10mm on High Channel in GPRS850 4Slots mode with Down Antenna

Date: 2020.03.13

Communication System Band: GPRS850; Frequency: 848.8 MHz; Duty Cycle: 1:2.08

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.946$ S/m; $\epsilon_r = 41.04$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 251/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.177 W/kg

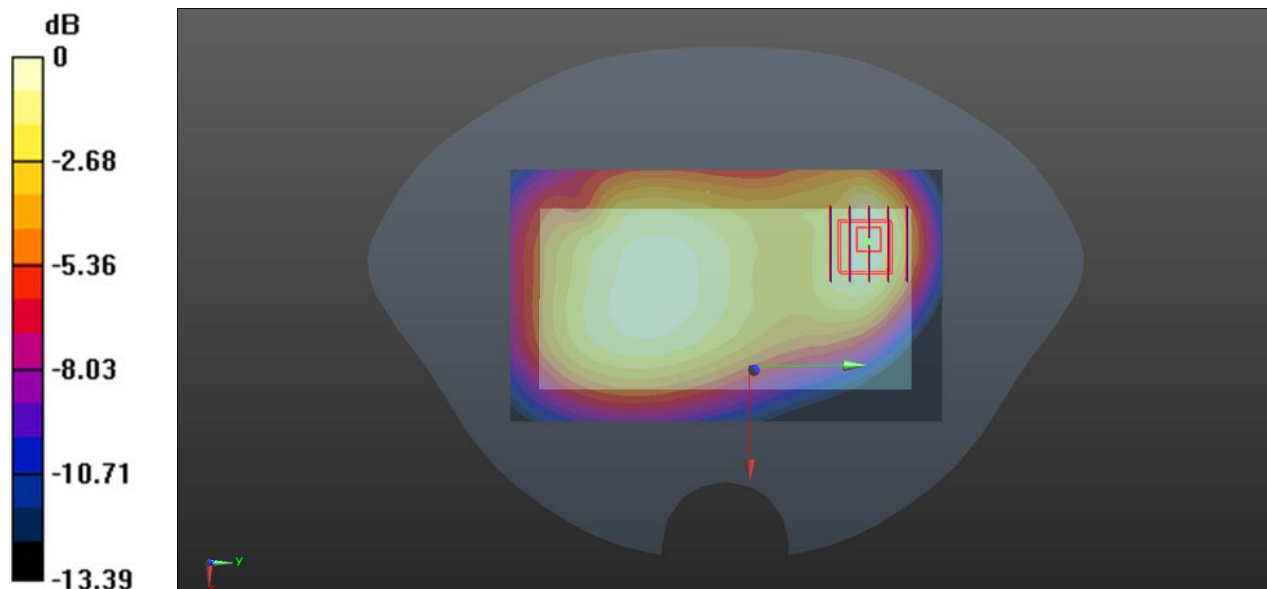
Ch 251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.33 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.236 W/kg

SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.074 W/kg

Maximum value of SAR (measured) = 0.175 W/kg



0 dB = 0.175 W/kg

MEAS.3 Right Head with Tilt on High Channel in GPRS1900 3Slots mode with Up Antenna

Date: 2020.03.02

Communication System Band: GPRS1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2.77

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.429$ S/m; $\epsilon_r = 39.734$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 810/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.278 W/kg

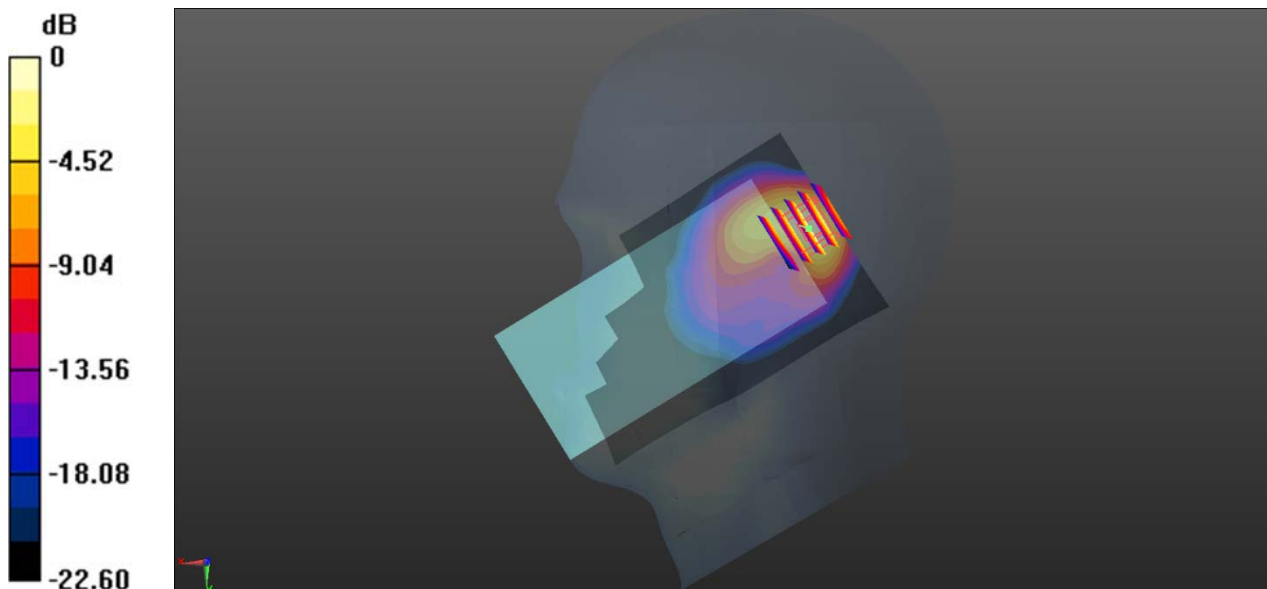
Ch 810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.395 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.468 W/kg

SAR(1 g) = 0.235 W/kg; SAR(10 g) = 0.110 W/kg

Maximum value of SAR (measured) = 0.279 W/kg



0 dB = 0.279 W/kg

MEAS.4 Body Plane with Top 10mm on High Channel in GPRS1900 3Slots mode with Up Antenna

Date: 2020.03.02

Communication System Band: GPRS1900; Frequency: 1909.8 MHz; Duty Cycle: 1:2.77

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.429$ S/m; $\epsilon_r = 39.734$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 810/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.376 W/kg

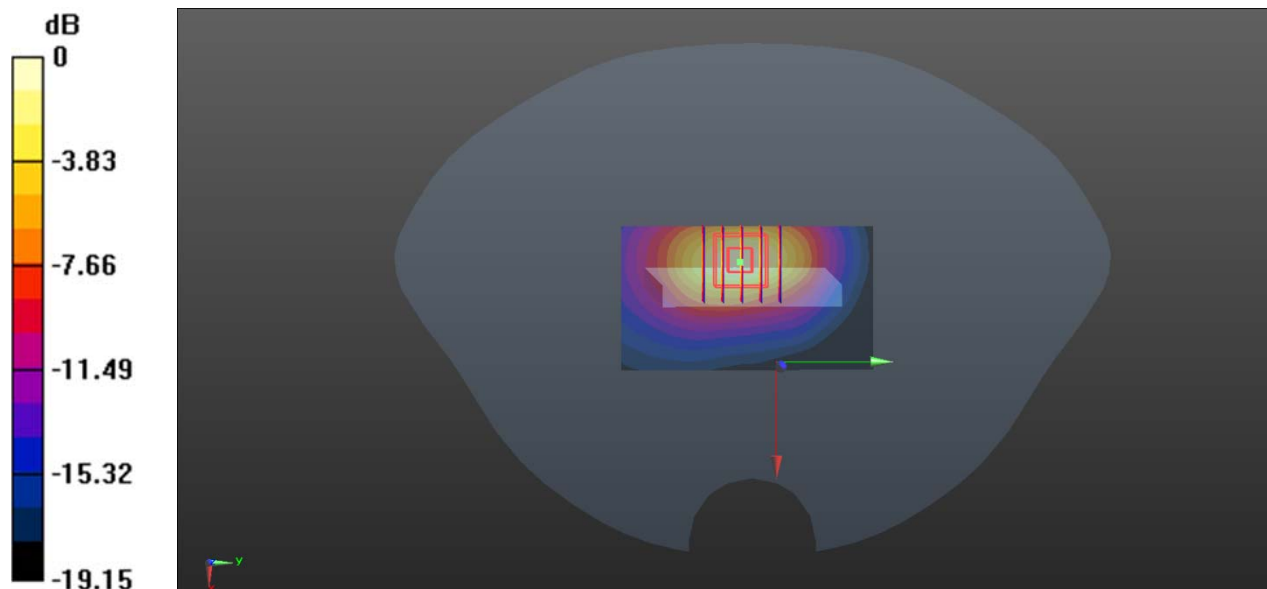
Ch 810/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.260 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.612 W/kg

SAR(1 g) = 0.333 W/kg; SAR(10 g) = 0.167 W/kg

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



0 dB = 0.381 W/kg

MEAS.5 Right Head with Tilt on High Channel in WCDMA Band 2 mode with Up Antenna

Date: 2020.03.10

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

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.42$ S/m; $\epsilon_r = 41.28$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 9538/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.556 W/kg

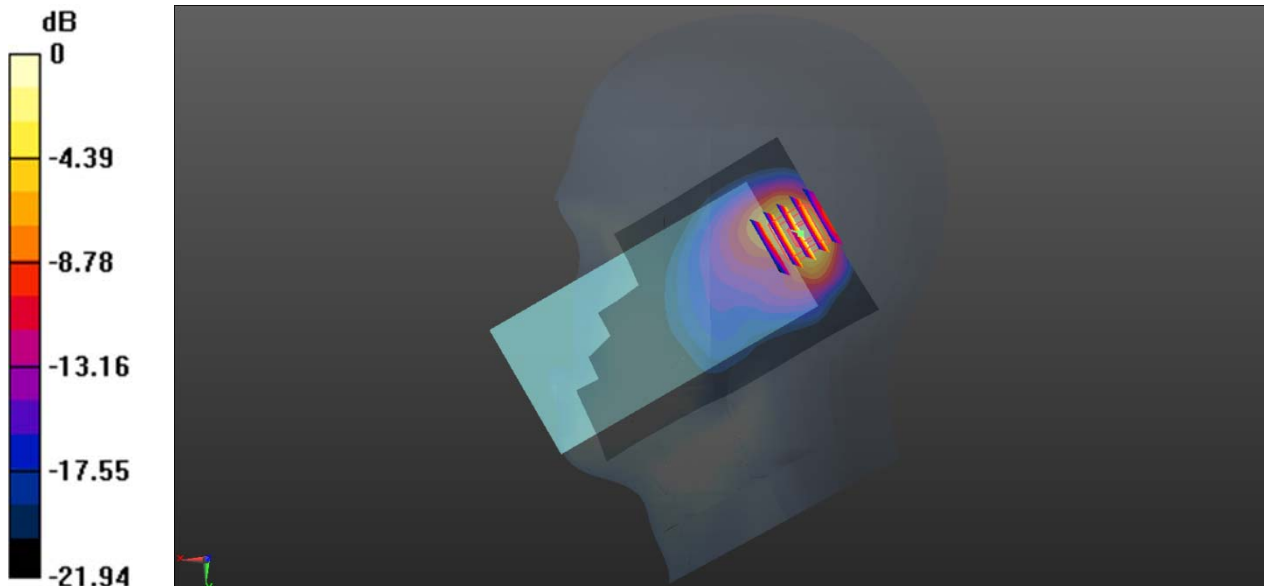
Ch 9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.953 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.979 W/kg

SAR(1 g) = 0.469 W/kg; SAR(10 g) = 0.211 W/kg

Maximum value of SAR (measured) = 0.563 W/kg



0 dB = 0.563 W/kg

MEAS.6 Body Plane with Top Edge 10mm on High Channel in WCDMA Band 2 mode with Up Antenna

Date: 2020.03.10

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

Medium parameters used (interpolated): $f = 1907.6$ MHz; $\sigma = 1.42$ S/m; $\epsilon_r = 41.28$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 9538/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.279 W/kg

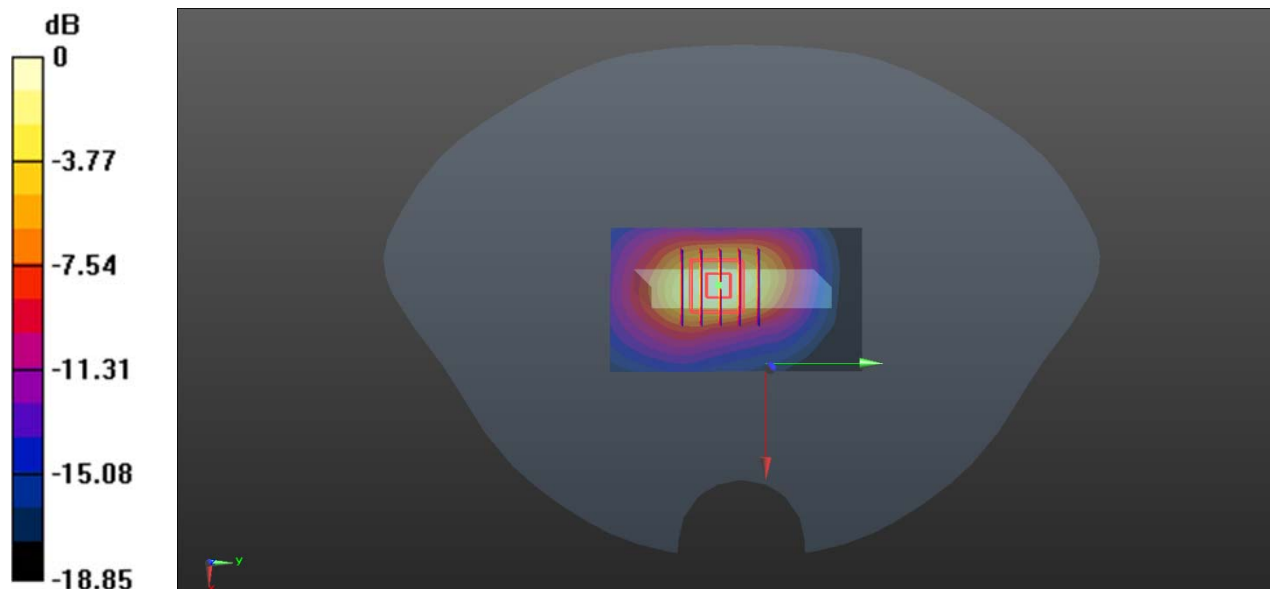
Ch 9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.58 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.468 W/kg

SAR(1 g) = 0.251 W/kg; SAR(10 g) = 0.125 W/kg

Maximum value of SAR (measured) = 0.288 W/kg



0 dB = 0.288 W/kg

MEAS.7 Body Plane with Top Edge 0mm on High Channel in WCDMA Band 2 mode with Up Antenna

Date: 2020.03.10

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

Medium parameters used (interpolated): $f = 1907.6 \text{ MHz}$; $\sigma = 1.42 \text{ S/m}$; $\epsilon_r = 41.28$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 9538/Area Scan (41x71x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 2.88 W/kg

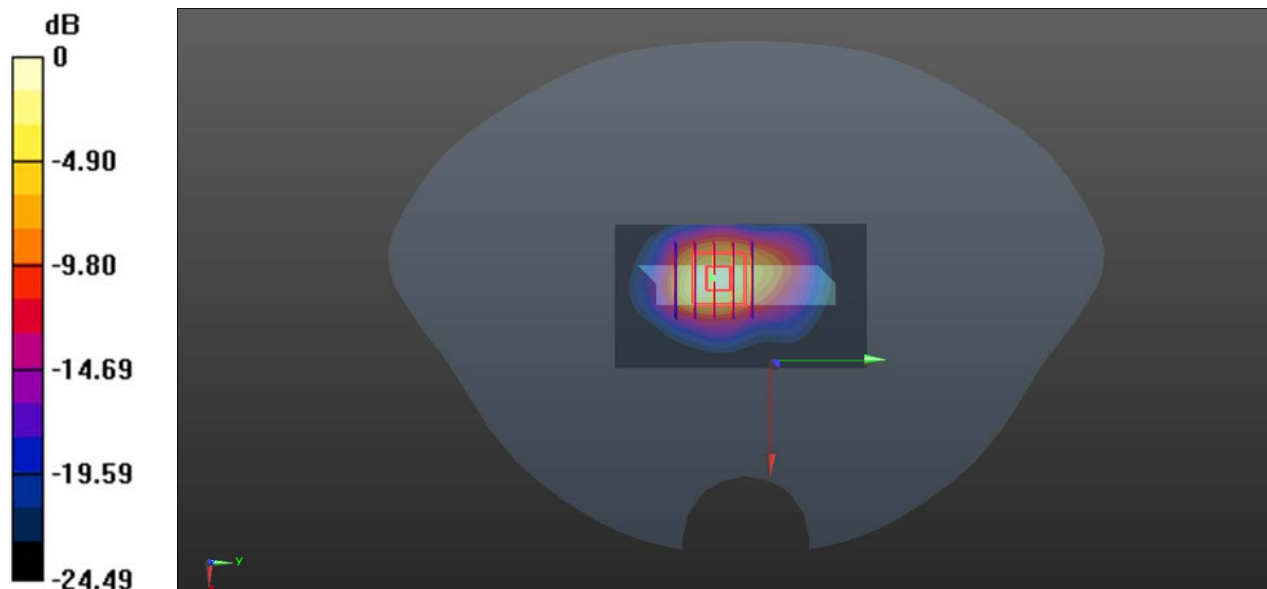
Ch 9538/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.52 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 6.03 W/kg

SAR(1 g) = 2.47 W/kg; SAR(10 g) = 0.984 W/kg

Maximum value of SAR (measured) = 2.94 W/kg



0 dB = 2.94 W/kg

MEAS.8 Right Head with Tilt on High Channel in WCDMA Band 4 mode with Up Antenna

Date: 2020.03.17

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

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.405$ S/m; $\epsilon_r = 39.94$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 1513/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.321 W/kg

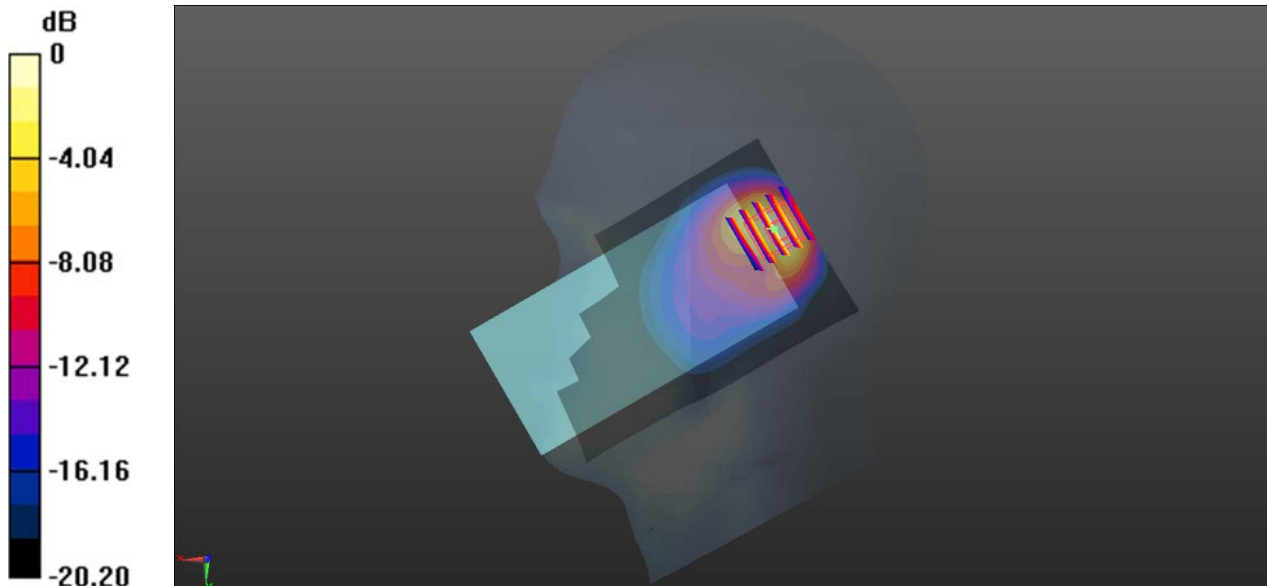
Ch 1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.923 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.568 W/kg

SAR(1 g) = 0.287 W/kg; SAR(10 g) = 0.133 W/kg

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



0 dB = 0.343 W/kg

MEAS.9 Body Plane with Bottom Edge 10mm on High Channel in WCDMA Band 4 mode with Down Antenna

Date: 2020.03.17

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

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.405$ S/m; $\epsilon_r = 39.94$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 1513/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.176 W/kg

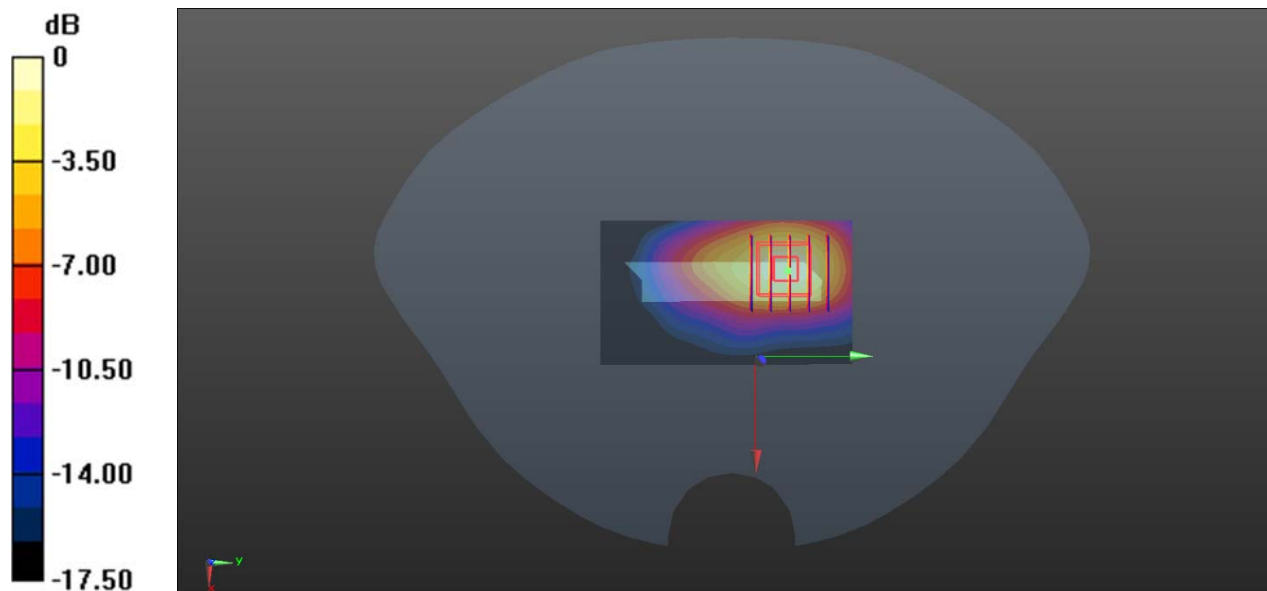
Ch 1513/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.010 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.278 W/kg

SAR(1 g) = 0.159 W/kg; SAR(10 g) = 0.085 W/kg

Maximum value of SAR (measured) = 0.179 W/kg



0 dB = 0.179 W/kg

MEAS.10 Right Head with Cheek on High Channel in WCDMA Band 5 mode with Up Antenna

Date: 2020.03.15

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

Medium parameters used: $f = 846.6$ MHz; $\sigma = 0.948$ S/m; $\epsilon_r = 41.356$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 4233/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.312 W/kg

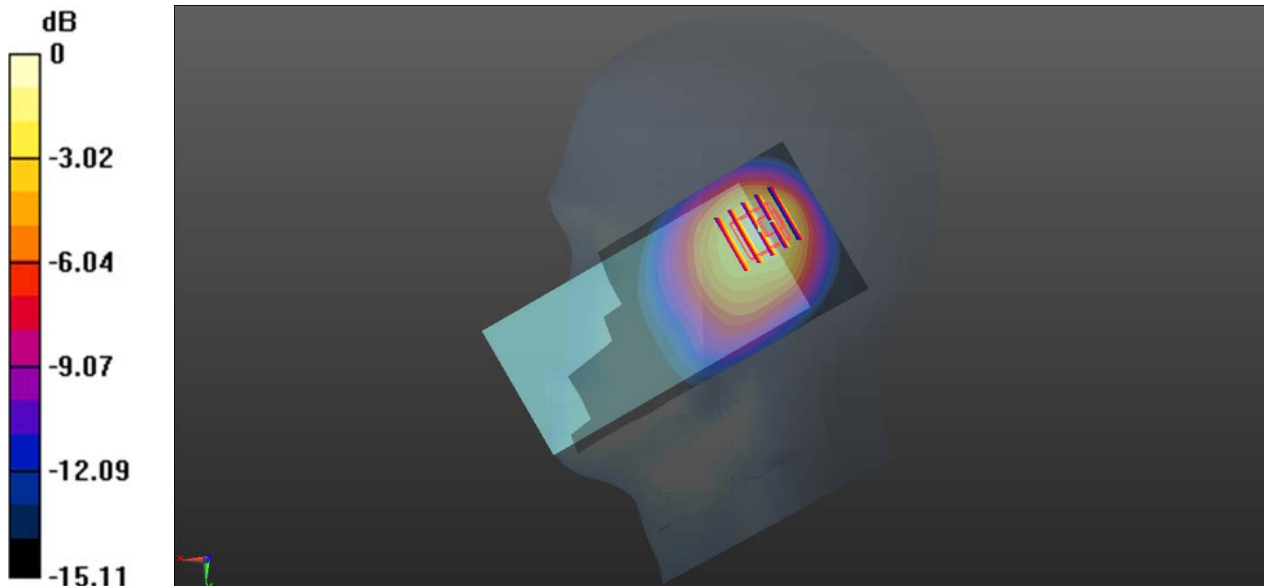
Ch 4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.56 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.540 W/kg

SAR(1 g) = 0.286 W/kg; SAR(10 g) = 0.171 W/kg

Maximum value of SAR (measured) = 0.317 W/kg



0 dB = 0.317 W/kg

MEAS.11 Body Plane with Back Side 10mm on High Channel in WCDMA Band 5 mode with Down Antenna

Date: 2020.03.15

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

Medium parameters used: $f = 846.6$ MHz; $\sigma = 0.948$ S/m; $\epsilon_r = 41.356$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 4233/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.128 W/kg

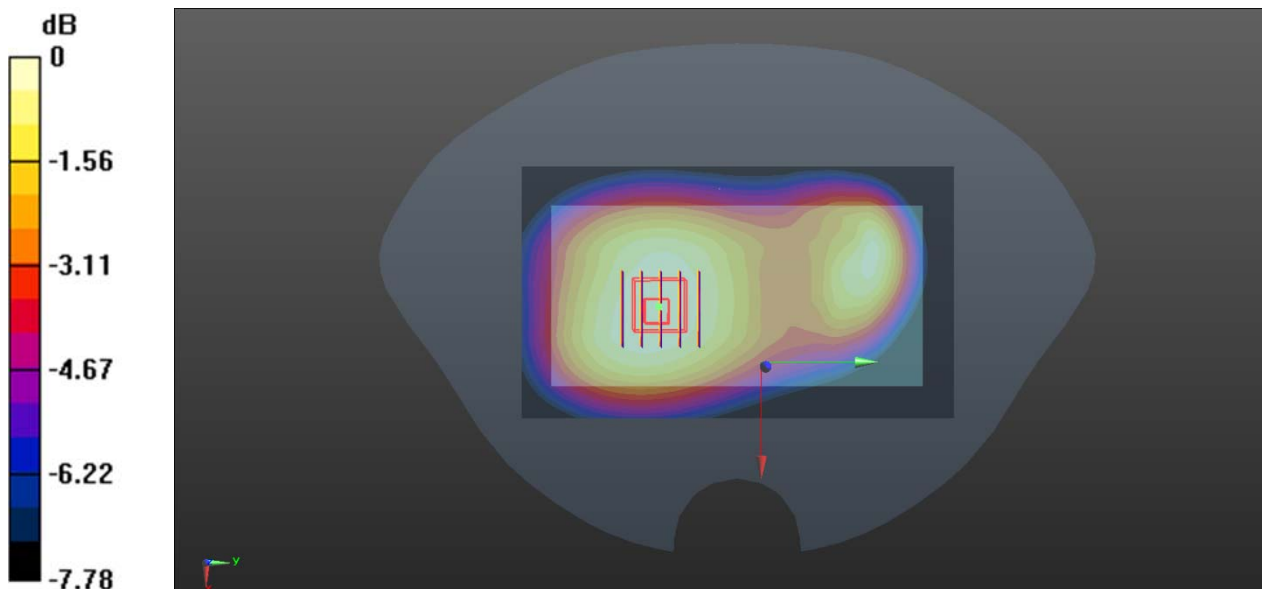
Ch 4233/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.984 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.151 W/kg

SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.094 W/kg

Maximum value of SAR (measured) = 0.128 W/kg



0 dB = 0.128 W/kg

MEAS.12 Right Head with Tilt on Middle Channel in LTE Band 2 mode with Up Antenna

Date: 2020.03.11

Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.382$ S/m; $\epsilon_r = 40.394$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 18900/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.484 W/kg

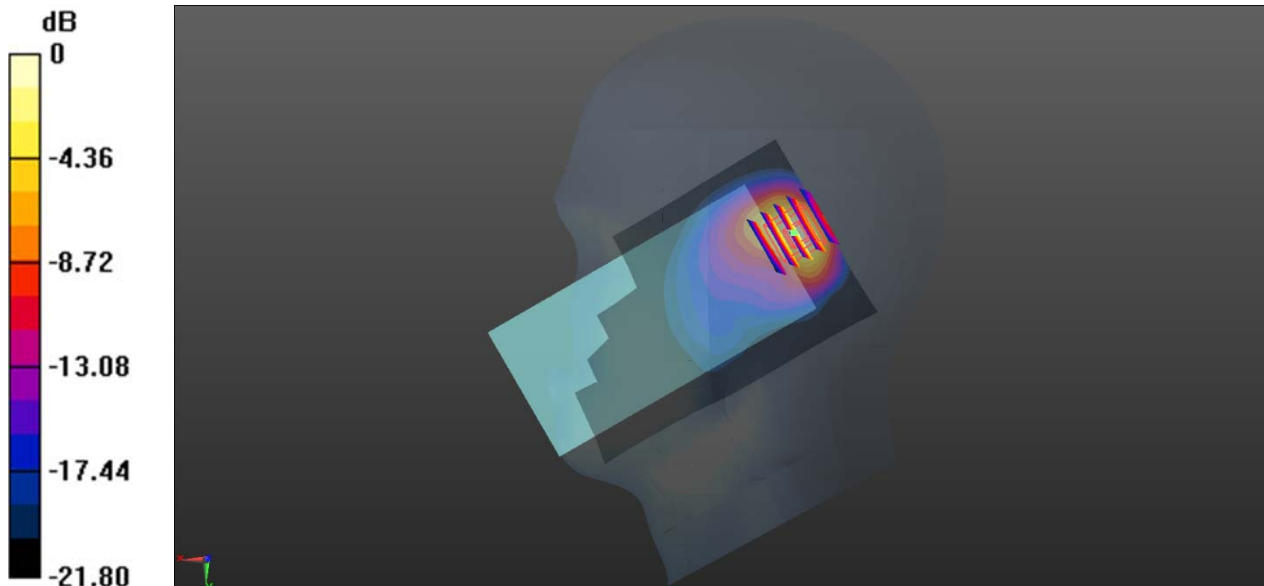
Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.736 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.818 W/kg

SAR(1 g) = 0.406 W/kg; SAR(10 g) = 0.187 W/kg

Maximum value of SAR (measured) = 0.484 W/kg



0 dB = 0.484 W/kg

MEAS.13 Body Plane with Top Edge 10mm on Middle Channel in LTE Band 2 mode with Up Antenna

Date: 2020.03.19

Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.42$ S/m; $\epsilon_r = 40.951$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 18900/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

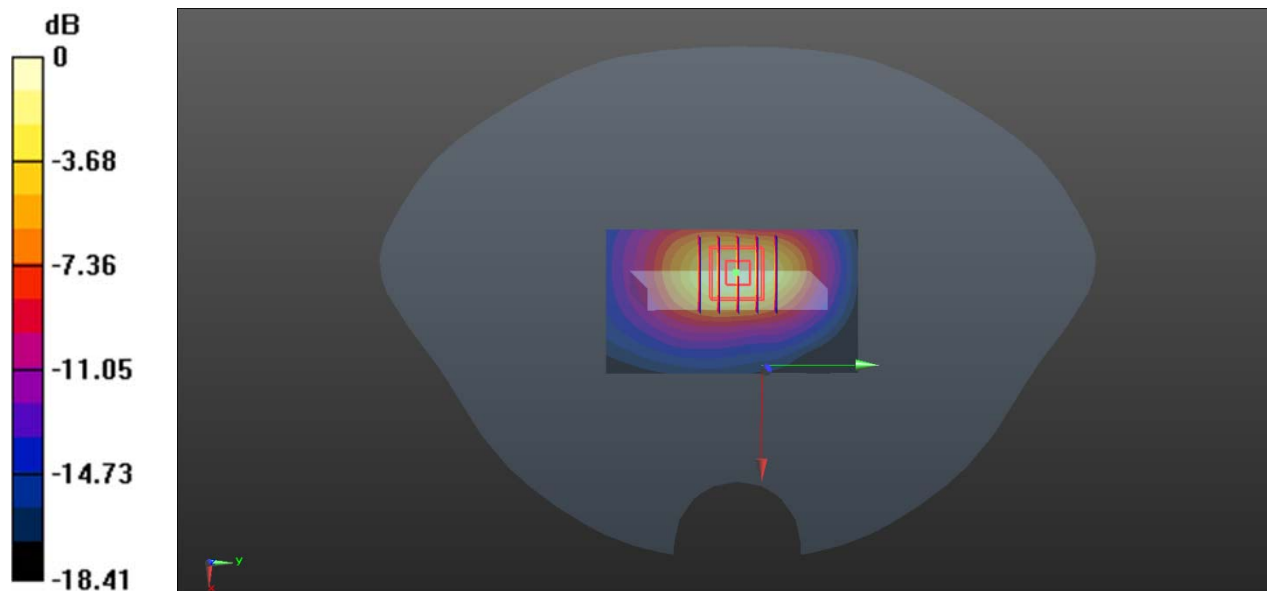
Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.19 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.579 W/kg

SAR(1 g) = 0.319 W/kg; SAR(10 g) = 0.163 W/kg

Maximum value of SAR (measured) = 0.368 W/kg



0 dB = 0.368 W/kg

MEAS.14 Body Plane with Top Edge 0mm on Middle Channel in LTE Band 2 mode with Up Antenna

Date: 2020.03.19

Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1880$ MHz; $\sigma = 1.42$ S/m; $\epsilon_r = 40.951$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.38, 8.38, 8.38); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 18900/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 4.24 W/kg

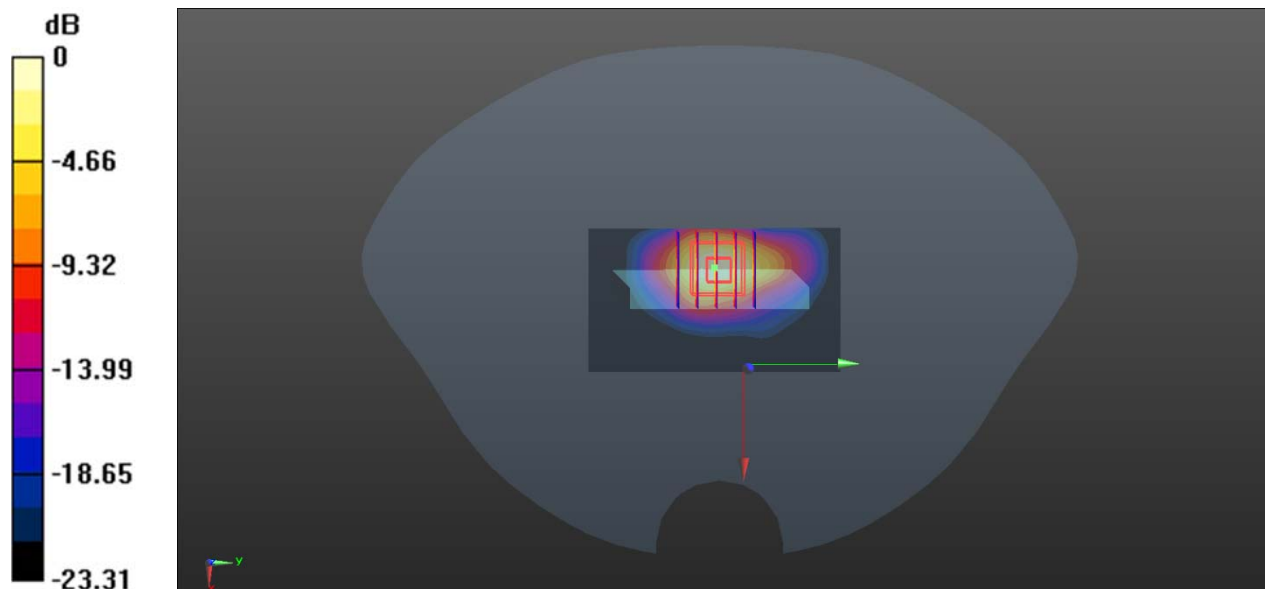
Ch 18900/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.54 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 7.49 W/kg

SAR(1 g) = 3.19 W/kg; SAR(10 g) = 1.32 W/kg

Maximum value of SAR (measured) = 3.88 W/kg



0 dB = 3.88 W/kg

MEAS.15 Right Head with Tilt on Middle Channel in LTE Band 4 mode with Up Antenna

Date: 2020.03.17

Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.386$ S/m; $\epsilon_r = 40.158$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 20175/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.255 W/kg

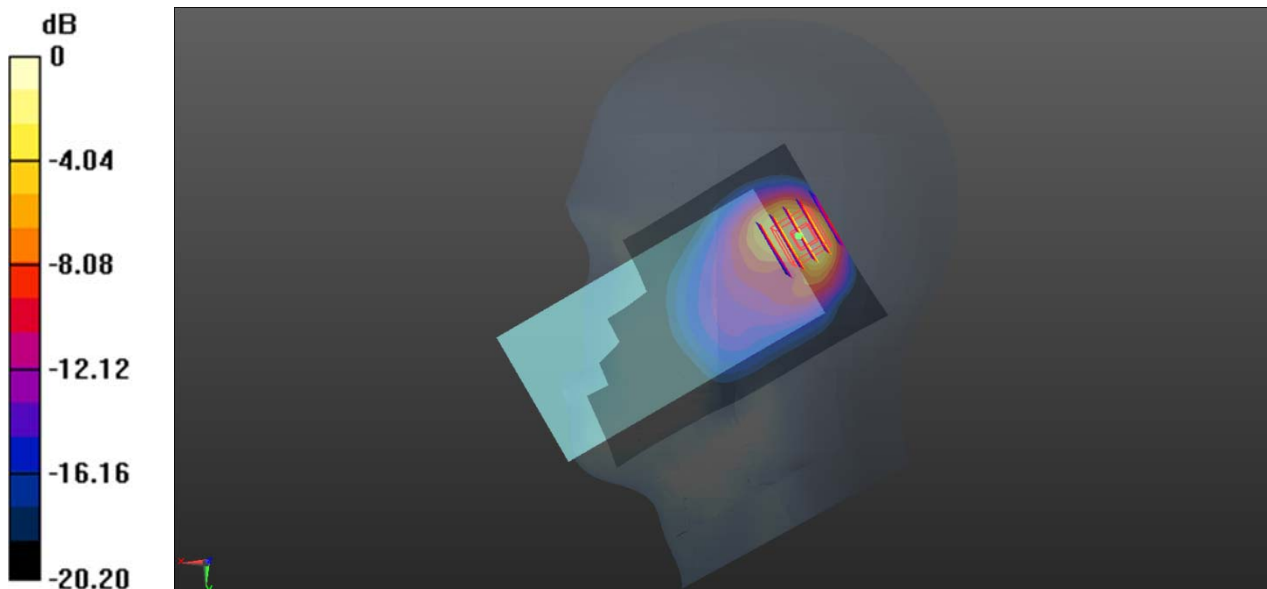
Ch 20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.555 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.429 W/kg

SAR(1 g) = 0.218 W/kg; SAR(10 g) = 0.102 W/kg

Maximum value of SAR (measured) = 0.260 W/kg



0 dB = 0.260 W/kg

MEAS.16 Body Plane with Top Edge 10mm on Middle Channel in LTE Band 4 mode with Up Antenna

Date: 2020.03.17

Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1732.5$ MHz; $\sigma = 1.386$ S/m; $\epsilon_r = 40.158$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 20175/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.322 W/kg

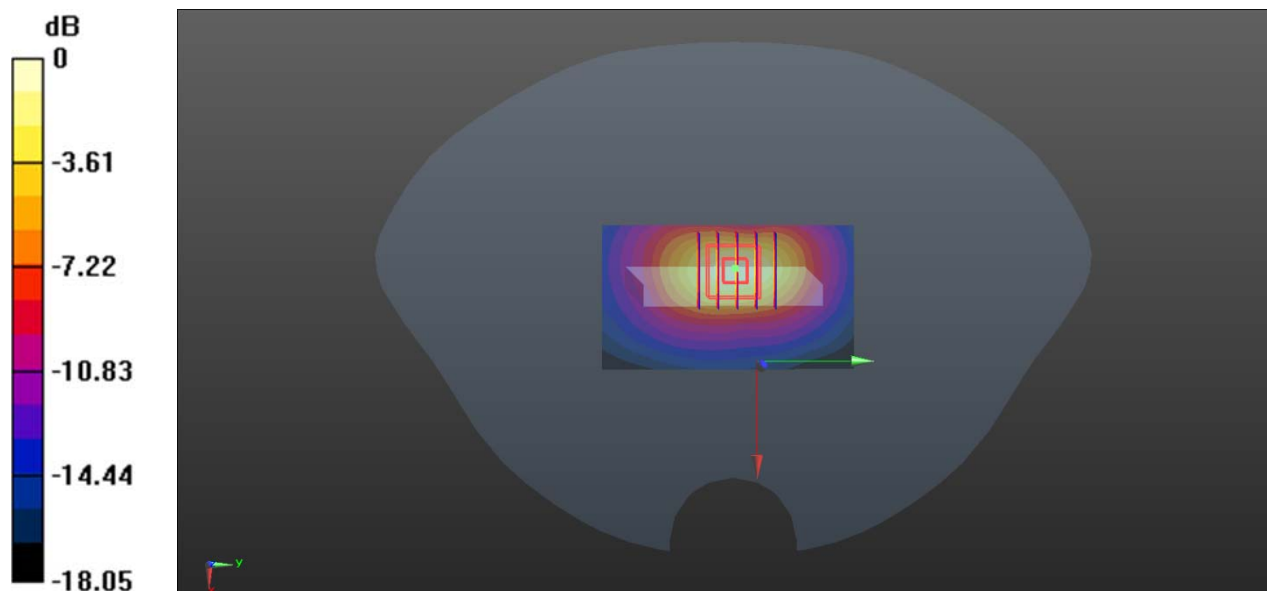
Ch 20175/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.13 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.497 W/kg

SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.148 W/kg

Maximum value of SAR (measured) = 0.328 W/kg



0 dB = 0.328 W/kg

MEAS.17 Right Head with Tilt on Middle Channel in LTE Band 7 mode with Up Antenna

Date: 2020.03.25

Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.867$ S/m; $\epsilon_r = 37.906$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.2 Liquid Temperature:20.8

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 21100/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.712 W/kg

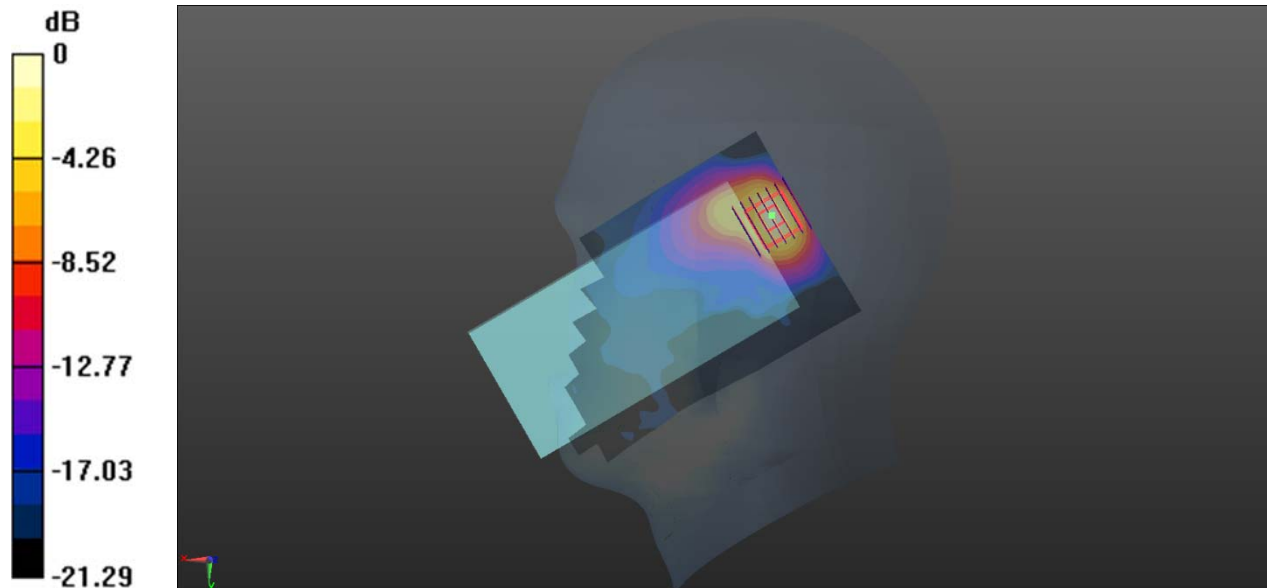
Ch 21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.61 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.650 W/kg; SAR(10 g) = 0.254 W/kg

Maximum value of SAR (measured) = 0.764 W/kg



0 dB = 0.764 W/kg

MEAS.18 Body Plane with Back Side 10mm on Middle Channel in LTE Band 7 mode with Up Antenna

Date: 2020.03.20

Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.938$ S/m; $\epsilon_r = 40.005$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 21100/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.884 W/kg

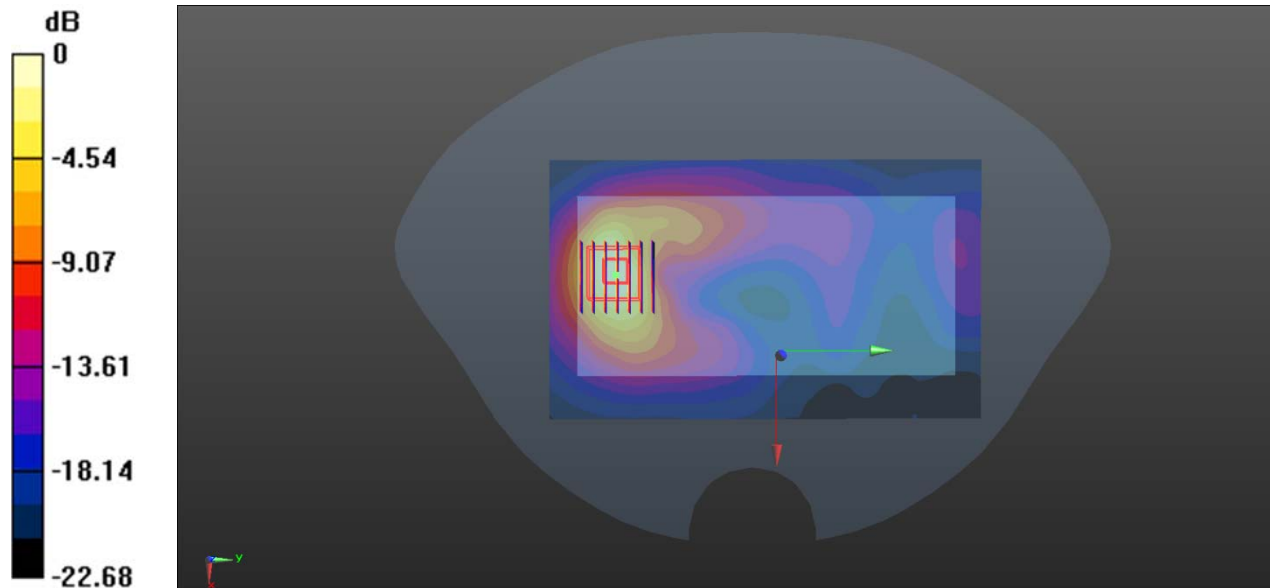
Ch 21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.088 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 0.796 W/kg; SAR(10 g) = 0.342 W/kg

Maximum value of SAR (measured) = 0.904 W/kg



0 dB = 0.904 W/kg

MEAS.19 Body Plane with Back Side 0mm on Middle Channel in LTE Band 7 mode with Up Antenna

Date: 2020.03.20

Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.938$ S/m; $\epsilon_r = 40.005$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 21100/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 5.53 W/kg

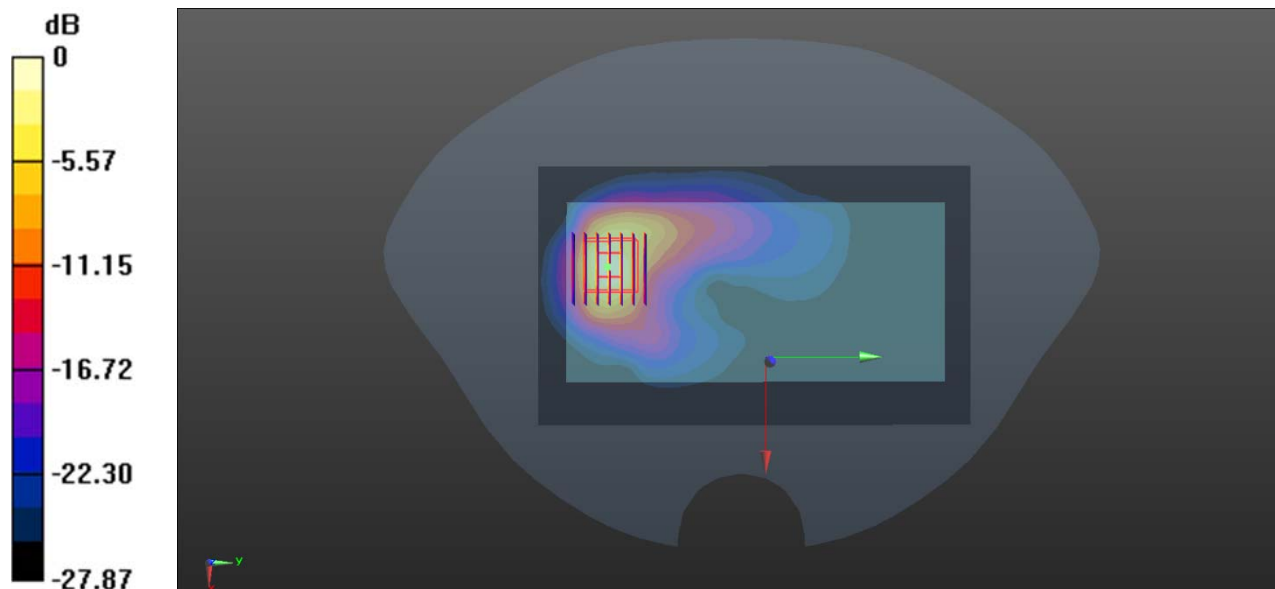
Ch 21100/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.350 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 12.9 W/kg

SAR(1 g) = 4.48 W/kg; SAR(10 g) = 1.53 W/kg

Maximum value of SAR (measured) = 5.27 W/kg



0 dB = 5.27 W/kg

MEAS.20 Right Head with Cheek on Low Channel in LTE Band 12 mode with Up Antenna

Date: 2020.03.05

Communication System Band: Band 12, E-UTRA/FDD (699.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 704$ MHz; $\sigma = 0.898$ S/m; $\epsilon_r = 41.52$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.3 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.35, 10.35, 10.35); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 23060/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0924 W/kg

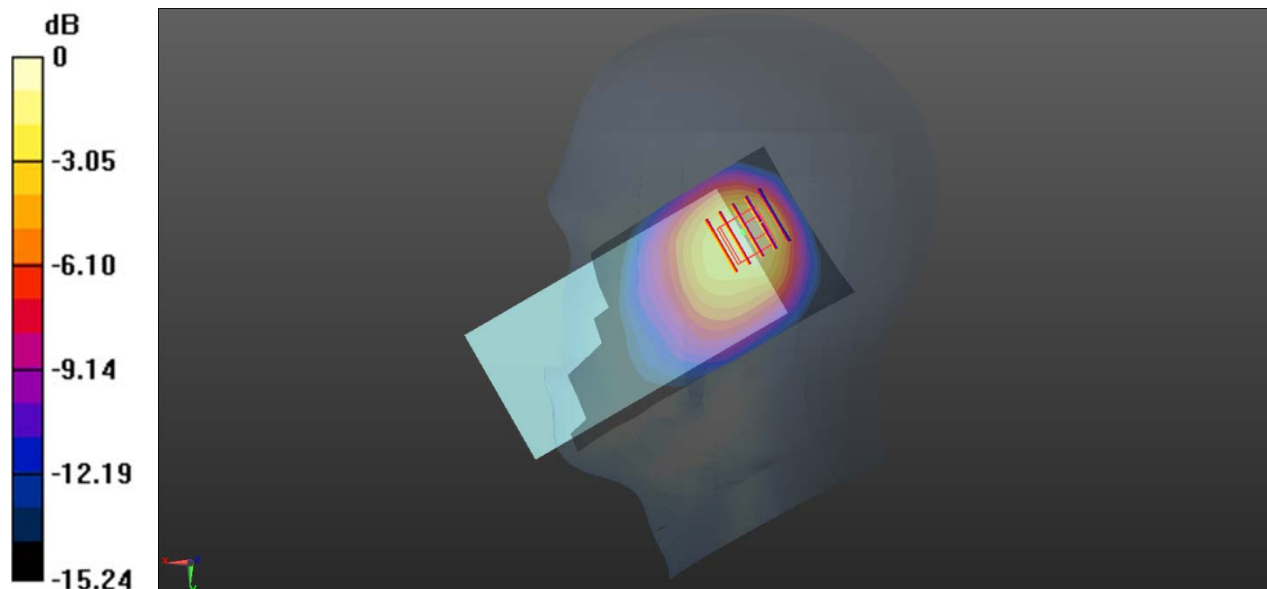
Ch 23060/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.927 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.190 W/kg

SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.053 W/kg

Maximum value of SAR (measured) = 0.0998 W/kg



0 dB = 0.0998 W/kg

MEAS.21 Body Plane with Back Side 10mm on Low Channel in LTE Band 12 mode with Down Antenna

Date: 2020.03.14

Communication System Band: Band 12, E-UTRA/FDD (699.0 - 716.0 MHz); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 704$ MHz; $\sigma = 0.895$ S/m; $\epsilon_r = 42.695$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.35, 10.35, 10.35); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 23060/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.199 W/kg

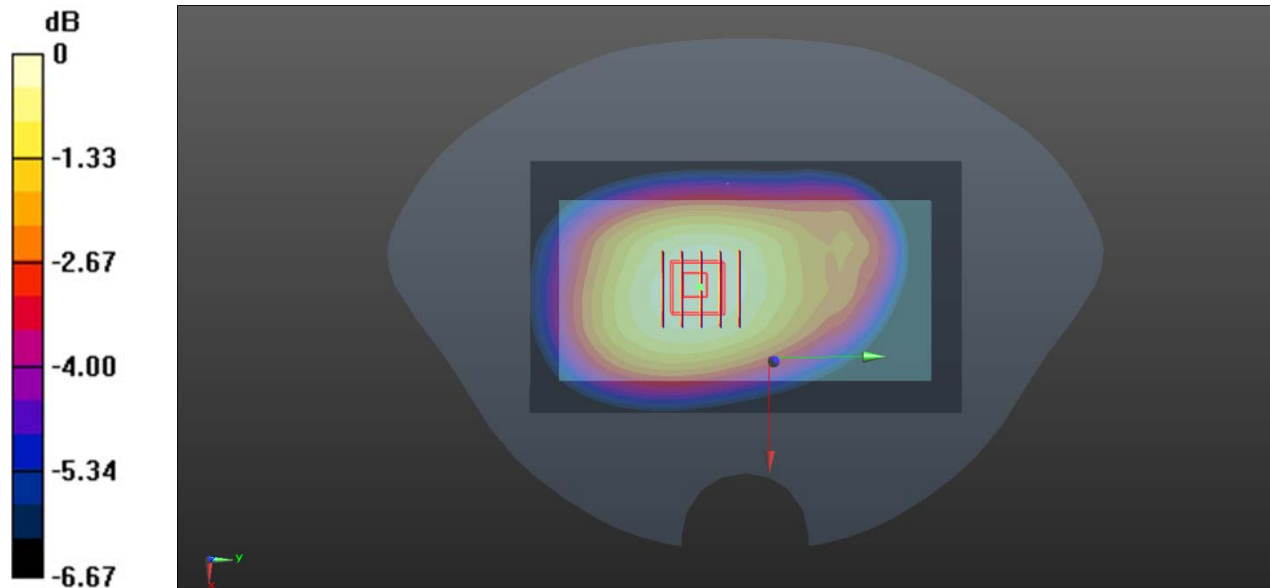
Ch 23060/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.50 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.230 W/kg

SAR(1 g) = 0.192 W/kg; SAR(10 g) = 0.153 W/kg

Maximum value of SAR (measured) = 0.200 W/kg



0 dB = 0.200 W/kg

MEAS.22 Right Head with Cheek on High Channel in LTE Band 26 mode with Up Antenna

Date: 2020.03.06

Communication System Band: Band 26, E-UTRA/TDD (814.0 - 849.0 MHz); Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 841.5$ MHz; $\sigma = 0.925$ S/m; $\epsilon_r = 42.05$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.5 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 26965/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.352 W/kg

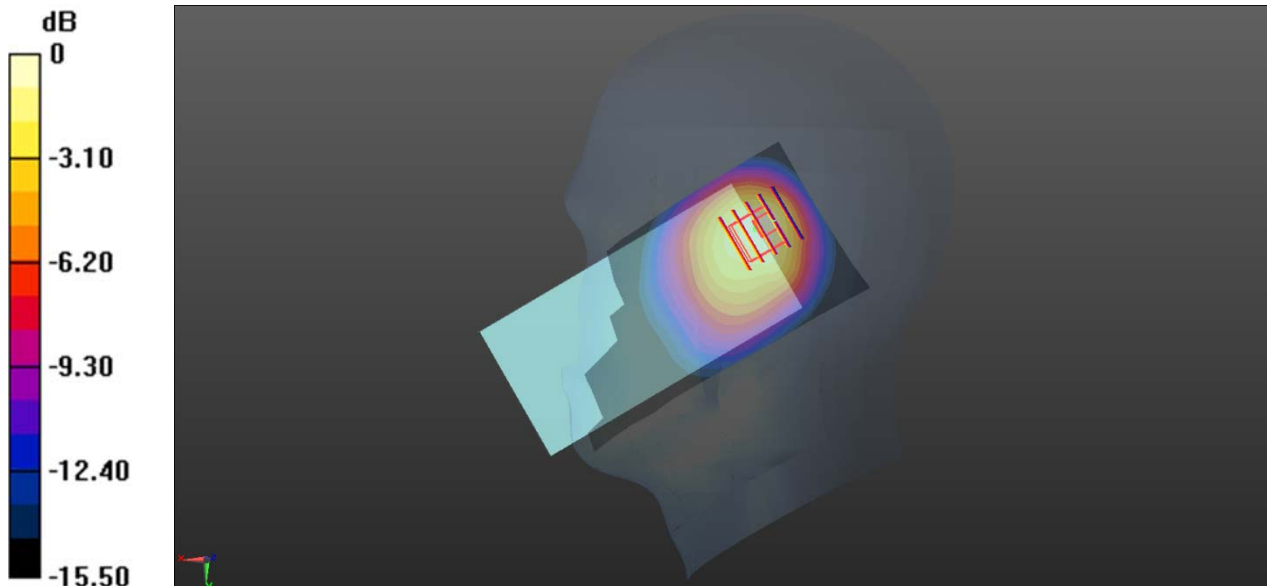
Ch 26965/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.47 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.615 W/kg

SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.188 W/kg

Maximum value of SAR (measured) = 0.346 W/kg



0 dB = 0.346 W/kg

MEAS.23 Body Plane with Back Side 10mm on High Channel in LTE Band 26 mode with Down Antenna

Date: 2020.03.16

Communication System Band: Band 26, E-UTRA/TDD (814.0 - 849.0 MHz); Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 841.5$ MHz; $\sigma = 0.929$ S/m; $\epsilon_r = 40.035$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(10.02, 10.02, 10.02); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 26965/Area Scan (71x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.137 W/kg

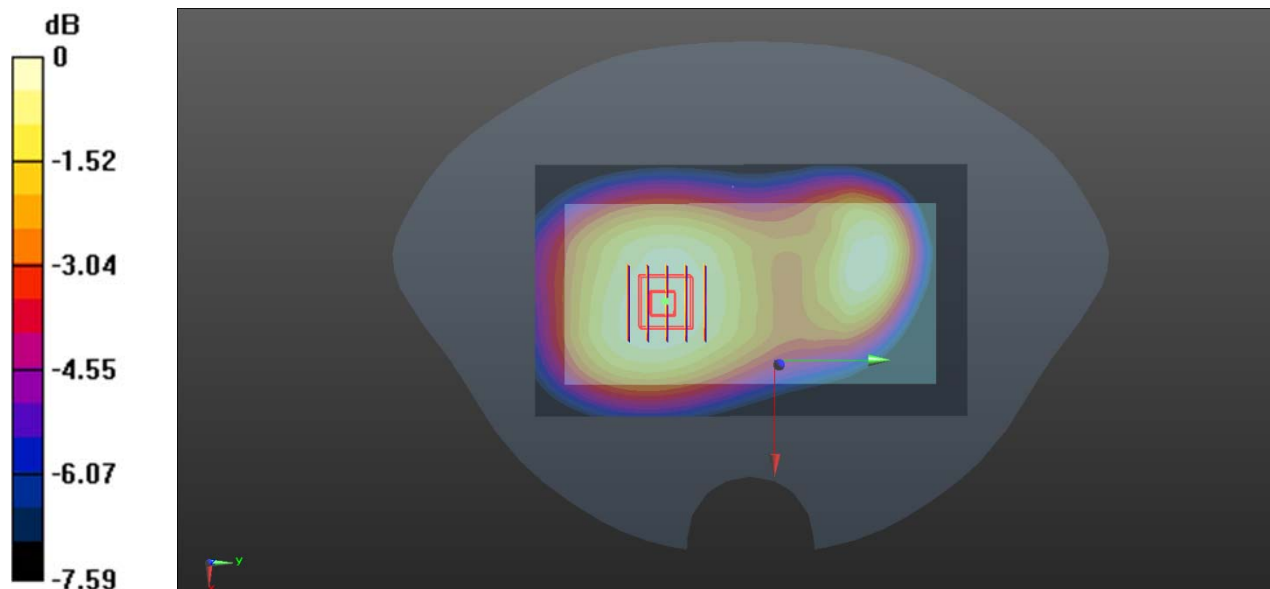
Ch 26965/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.825 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.151 W/kg

SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.076 W/kg

Maximum value of SAR (measured) = 0.138 W/kg



0 dB = 0.138 W/kg

MEAS.24 Right Head with Tilt on Middle Channel in LTE Band 66 mode with Up Antenna

Date: 2020.03.09

Communication System Band: Band 66, E-UTRA/FDD (1710.0 - 1780.0 MHz); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.394$ S/m; $\epsilon_r = 40.987$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.4 Liquid Temperature:21.3

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 132322/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.274 W/kg

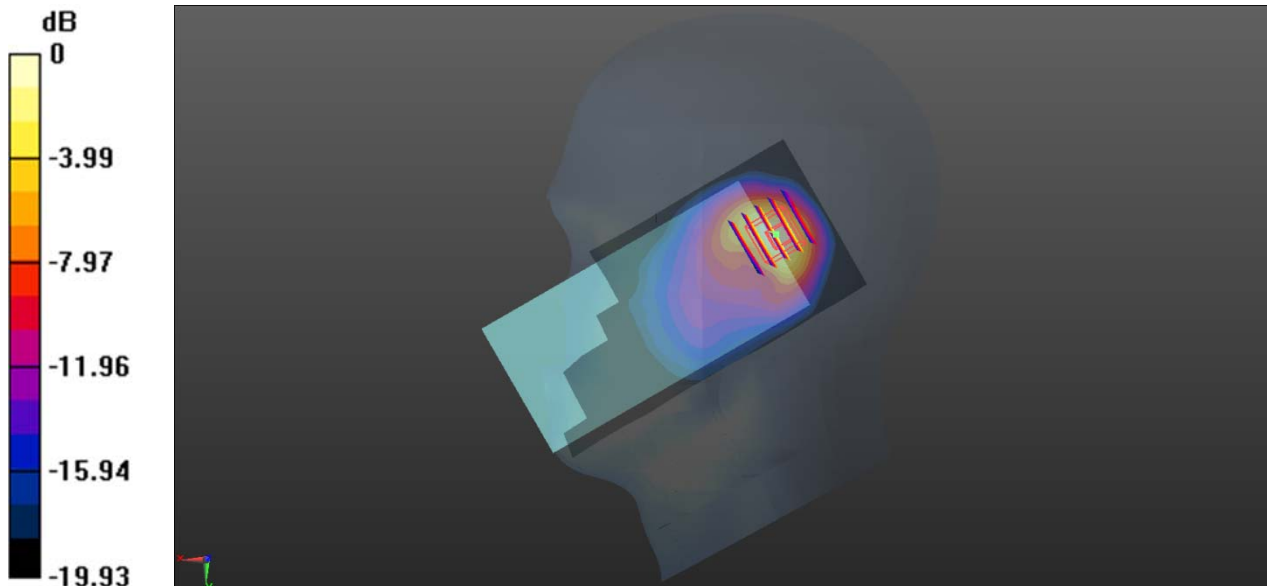
Ch 132322/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.62 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.458 W/kg

SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.113 W/kg

Maximum value of SAR (measured) = 0.279 W/kg



0 dB = 0.279 W/kg

MEAS.25 Body Plane with Top Edge 10mm on Middle Channel in LTE Band 66 mode with Up Antenna

Date: 2020.03.18

Communication System Band: Band 66, E-UTRA/FDD (1710.0 - 1780.0 MHz); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.409$ S/m; $\epsilon_r = 39.952$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.6 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(8.67, 8.67, 8.67); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- Phantom: SAM (30deg probe tilt) with CRP v5.0 on left 1859; Type: QD000P40CD; Serial: TP:1859
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch 132322/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.375 W/kg

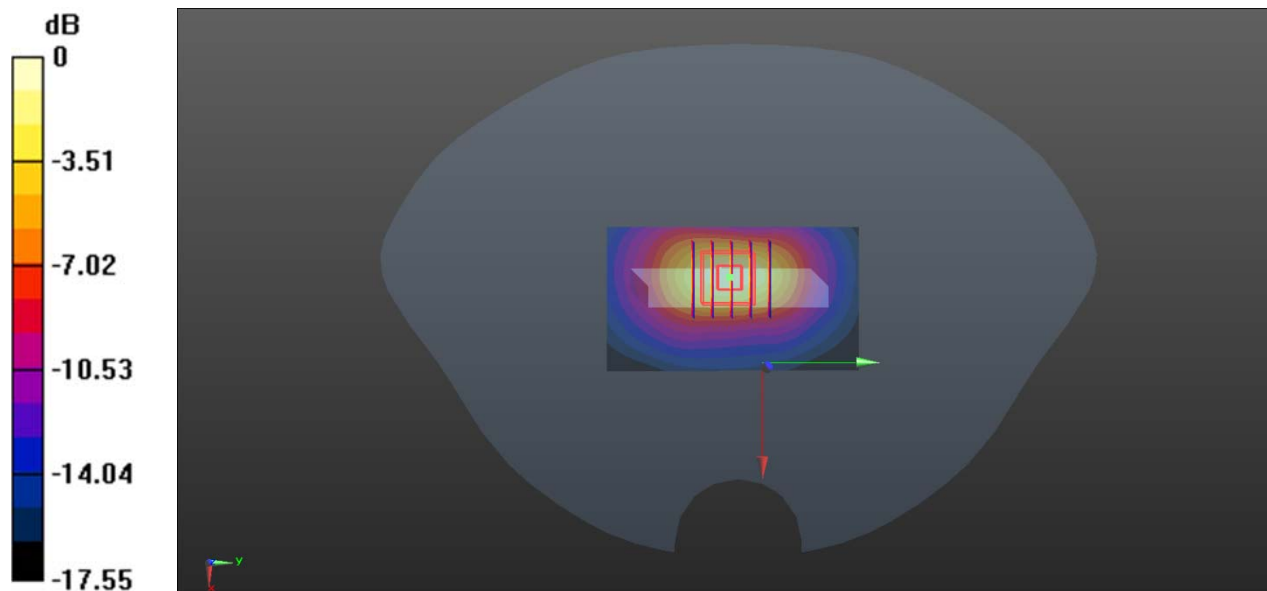
Ch 132322/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.48 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.575 W/kg

SAR(1 g) = 0.324 W/kg; SAR(10 g) = 0.166 W/kg

Maximum value of SAR (measured) = 0.374 W/kg



0 dB = 0.374 W/kg

MEAS.26 Right Head with Tilt on Low Channel in LTE Band 41 mode with Up Antenna

Date: 2020.03.26

Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2506 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated): $f = 2506$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 38.505$; $\rho = 1000$ kg/m³

Phantom section: Right Section

Ambient Temperature:22.3 Liquid Temperature:21.0

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 39750/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.898 W/kg

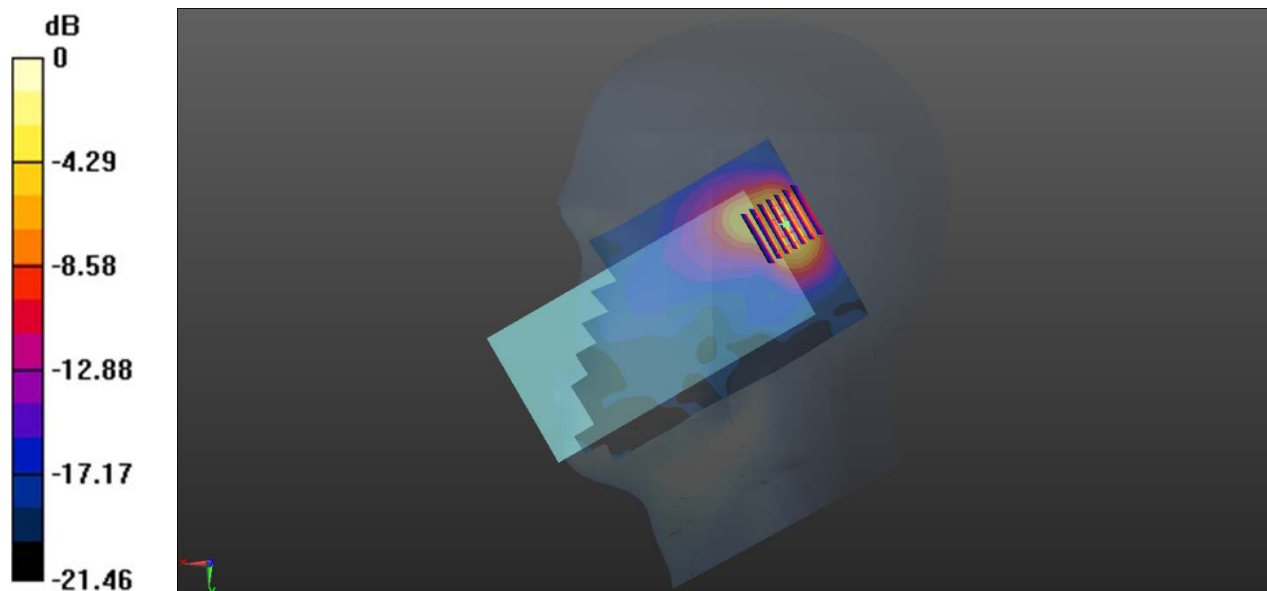
Ch 39750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.90 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 0.804 W/kg; SAR(10 g) = 0.320 W/kg

Maximum value of SAR (measured) = 0.954 W/kg



0 dB = 0.954 W/kg

MEAS.27 Body Plane with Back Side 10mm on Low Channel in LTE Band 41 mode with Up Antenna

Date: 2020.03.21

Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2506 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated): $f = 2506$ MHz; $\sigma = 1.856$ S/m; $\epsilon_r = 40.482$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.1 Liquid Temperature:20.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 39750/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.747 W/kg

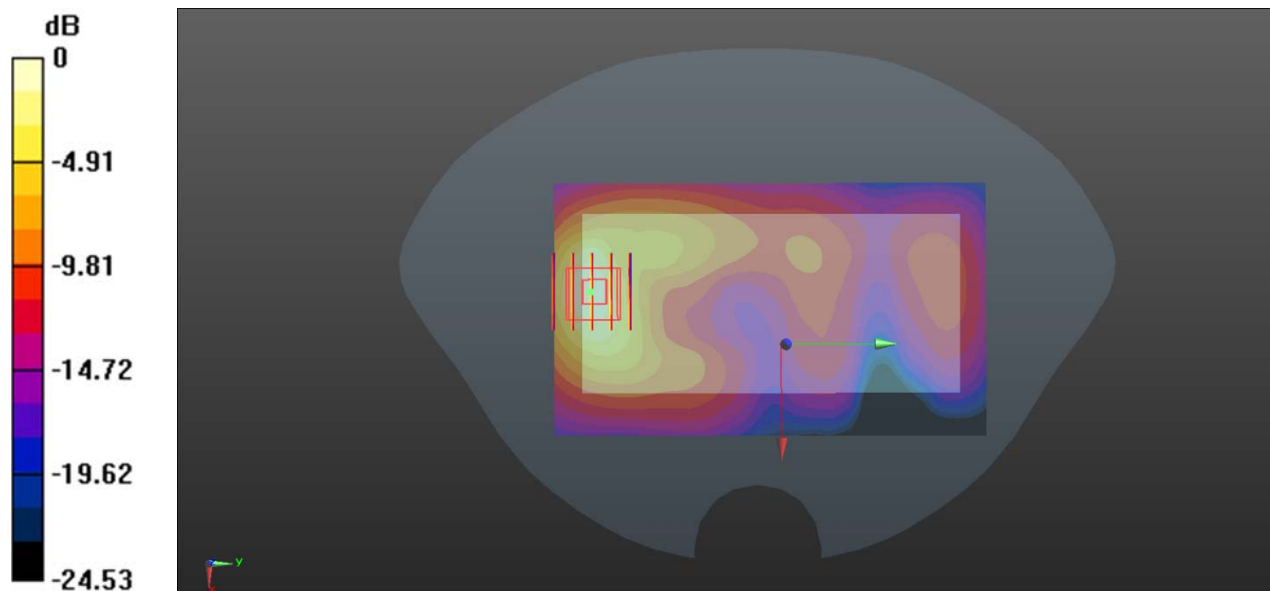
Ch 39750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.338 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.642 W/kg; SAR(10 g) = 0.271 W/kg

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



0 dB = 0.741 W/kg

MEAS.28 Body Plane with Back Side 0mm on Low Channel in LTE Band 41 mode with Up Antenna

Date: 2020.03.21

Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2506 MHz; Duty Cycle: 1:1.58

Medium parameters used (interpolated): $f = 2506$ MHz; $\sigma = 1.856$ S/m; $\epsilon_r = 40.482$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature: 22.1 Liquid Temperature: 20.9

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 39750/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 3.73 W/kg

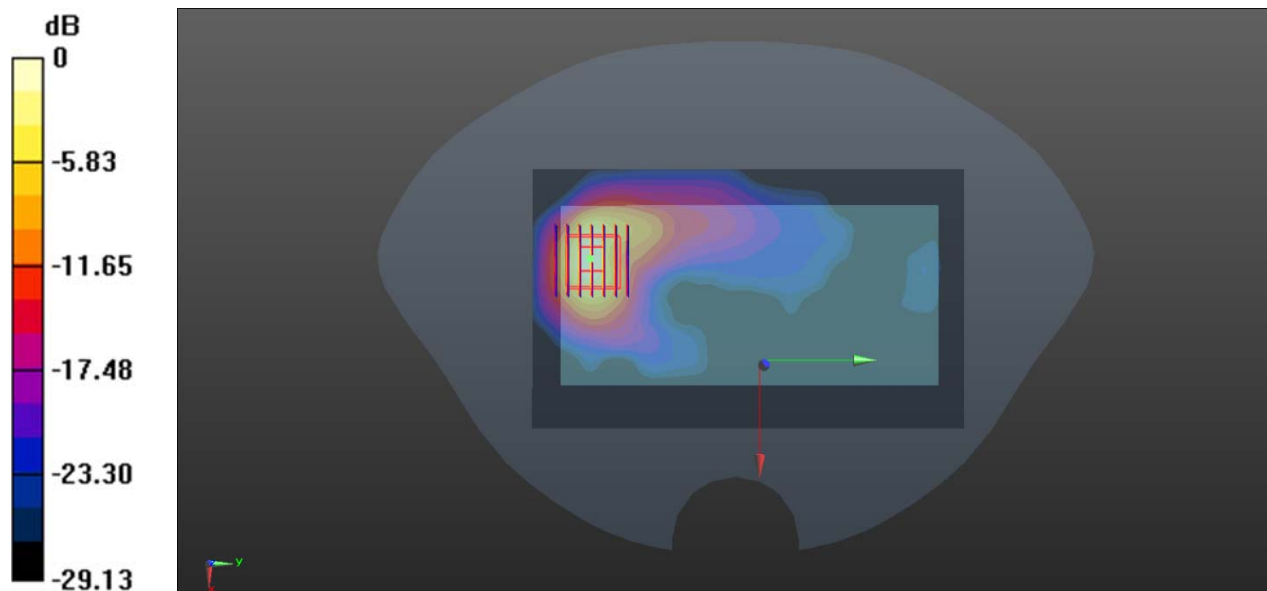
Ch 39750/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.131 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 8.88 W/kg

SAR(1 g) = 3.11 W/kg; SAR(10 g) = 1.08 W/kg

Maximum value of SAR (measured) = 3.73 W/kg



0 dB = 3.73 W/kg

MEAS.29 Left Head with Cheek on High Channel in IEEE802.11b mod

Date: 2020.03.27

Communication System Band: WLAN(b); Frequency: 2462 MHz; Duty Cycle: 1:1.01

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.797$ S/m; $\epsilon_r = 38.546$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 11/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.355 W/kg

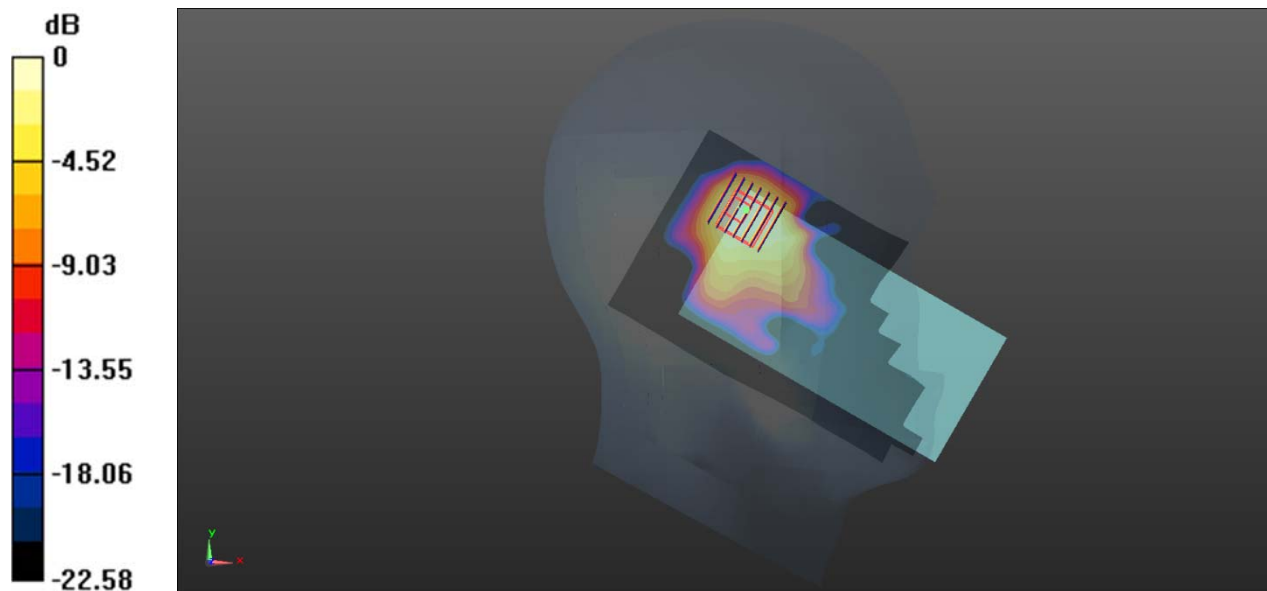
Ch 11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.376 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.684 W/kg

SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 0.307 W/kg



0 dB = 0.307 W/kg

MEAS.30 Body Plane with Top Edge 10mm on High Channel in IEEE802.11b mode

Date: 2020.03.27

Communication System Band: WLAN(b); Frequency: 2462 MHz; Duty Cycle: 1:1.01

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.797$ S/m; $\epsilon_r = 38.546$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 11/Area Scan (61x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.201 W/kg

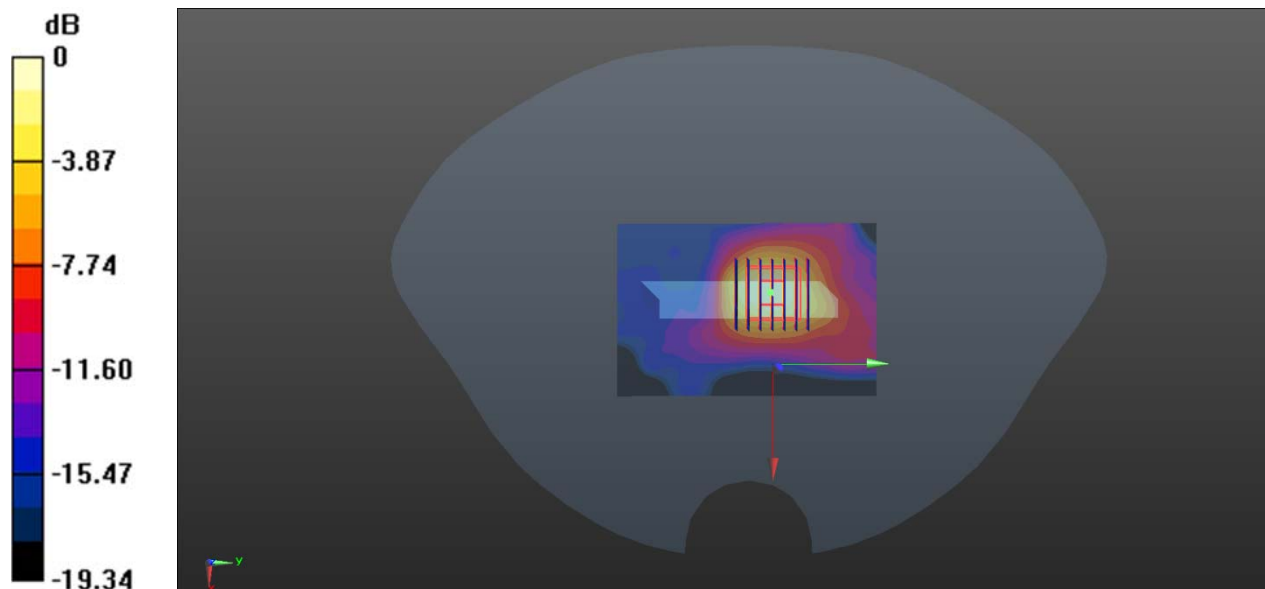
Ch 11/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.564 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.351 W/kg

SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.073 W/kg

Maximum value of SAR (measured) = 0.186 W/kg



0 dB = 0.186 W/kg

MEAS.31 Left Head with Tilt on Channel 64 in IEEE802.11a mode

Date: 2020.03.28

Communication System Band: WLAN(a); Frequency: 5320 MHz; Duty Cycle: 1:1.02

Medium parameters used: $f = 5320$ MHz; $\sigma = 4.795$ S/m; $\epsilon_r = 36.16$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.3 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.51, 5.51, 5.51); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 64/Area Scan (101x171x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.69 W/kg

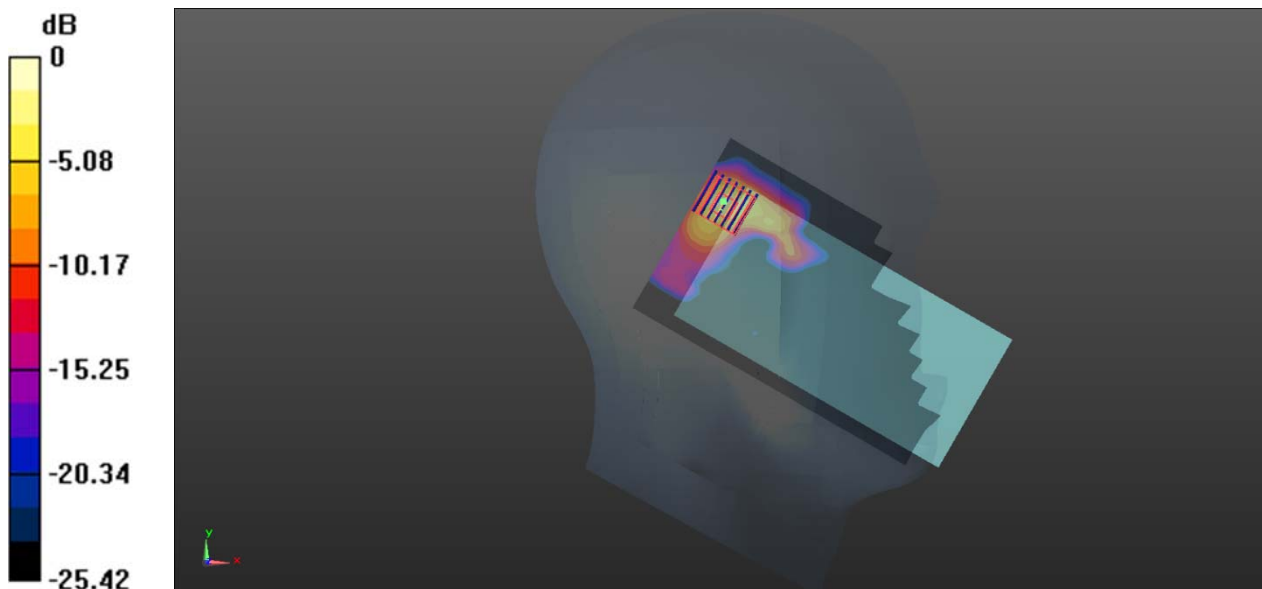
Ch 64/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.618 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.9 W/kg

SAR(1 g) = 0.808 W/kg; SAR(10 g) = 0.235 W/kg

Maximum value of SAR (measured) = 1.68 W/kg



0 dB = 1.68 W/kg

MEAS.32 Left Head with Tilt on Channel 116 in IEEE802.11a mode

Date: 2020.03.30

Communication System Band: WLAN(a); Frequency: 5580 MHz; Duty Cycle: 1:1.02

Medium parameters used (interpolated): $f = 5580 \text{ MHz}$; $\sigma = 5.102 \text{ S/m}$; $\epsilon_r = 36.332$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

Ambient Temperature:22.3 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.8, 4.8, 4.8); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 116/Area Scan (101x171x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 1.47 W/kg

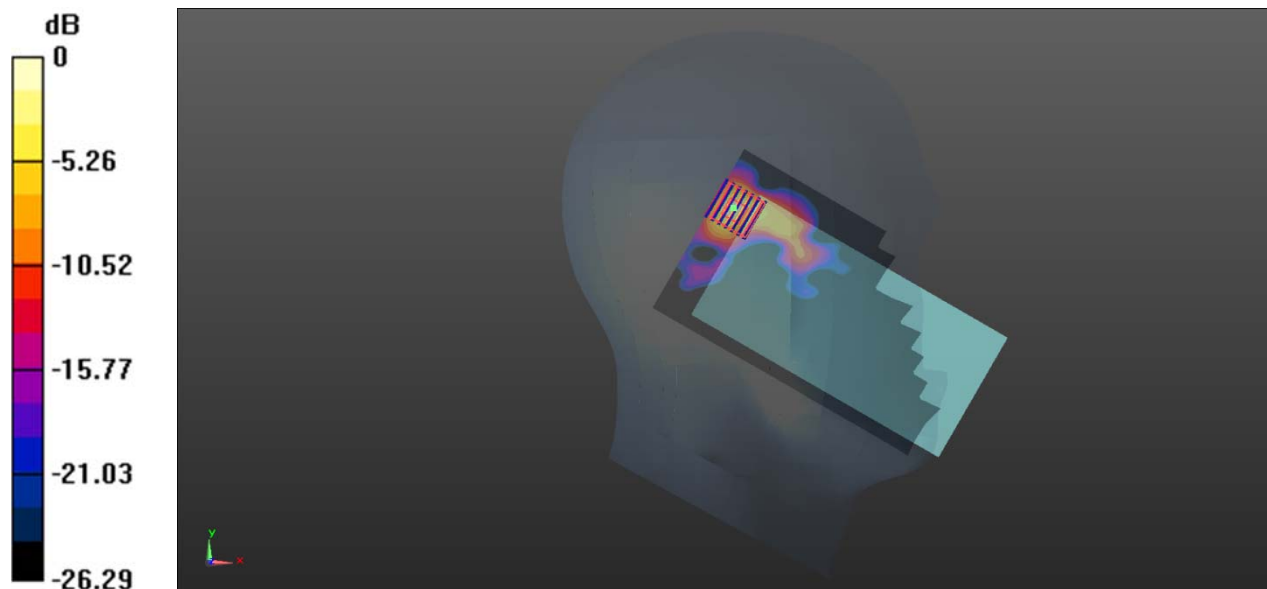
Ch 116/Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 0.658 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 3.6 W/kg

SAR(1 g) = 0.732 W/kg; SAR(10 g) = 0.179 W/kg

Maximum value of SAR (measured) = 1.61 W/kg



0 dB = 1.61 W/kg

MEAS.33 Left Head with Tilt on Channel 165 in IEEE802.11a mode

Date: 2020.03.31

Communication System Band: WLAN(a); Frequency: 5825 MHz; Duty Cycle: 1:1.02

Medium parameters used: $f = 5825$ MHz; $\sigma = 5.475$ S/m; $\epsilon_r = 34.285$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.06, 5.06, 5.06); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 165/Area Scan (101x171x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.69 W/kg

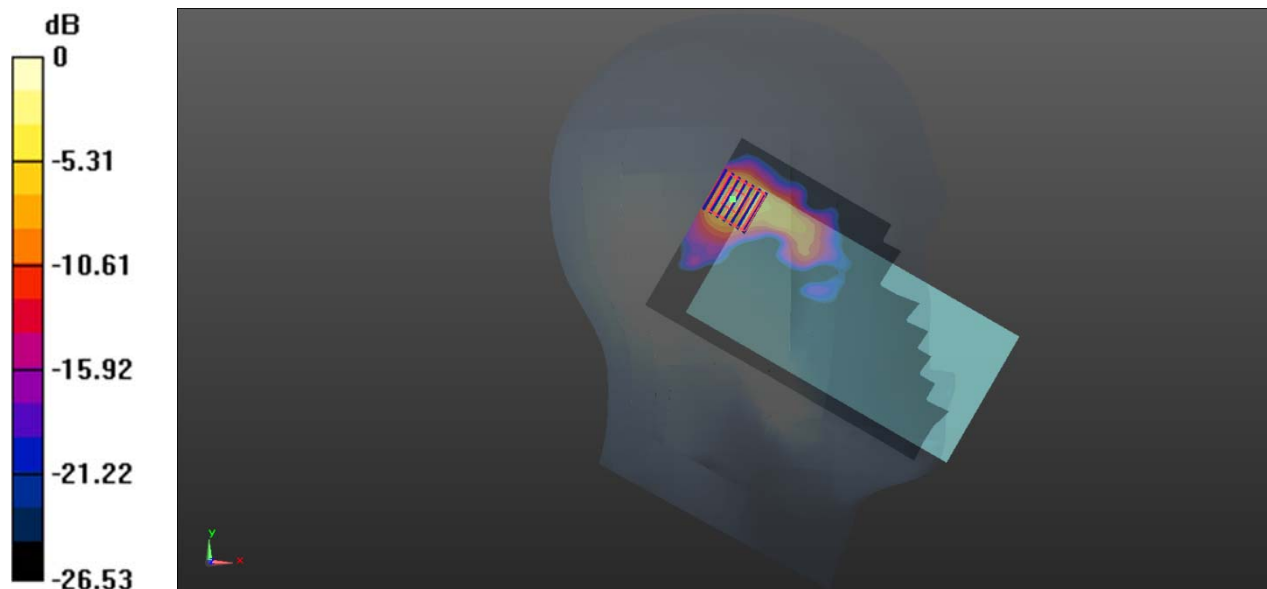
Ch 165/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.4430 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 4.28 W/kg

SAR(1 g) = 0.809 W/kg; SAR(10 g) = 0.199 W/kg

Maximum value of SAR (measured) = 1.87 W/kg



0 dB = 1.87 W/kg

MEAS.34 Body Plane with Top Edge 10mm on Channel 36 in IEEE802.11a mode

Date: 2020.03.29

Communication System Band: WLAN(a); Frequency: 5180 MHz; Duty Cycle: 1:1.02

Medium parameters used: $f = 5180$ MHz; $\sigma = 4.703$ S/m; $\epsilon_r = 35.738$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.51, 5.51, 5.51); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 36/Area Scan (81x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.411 W/kg

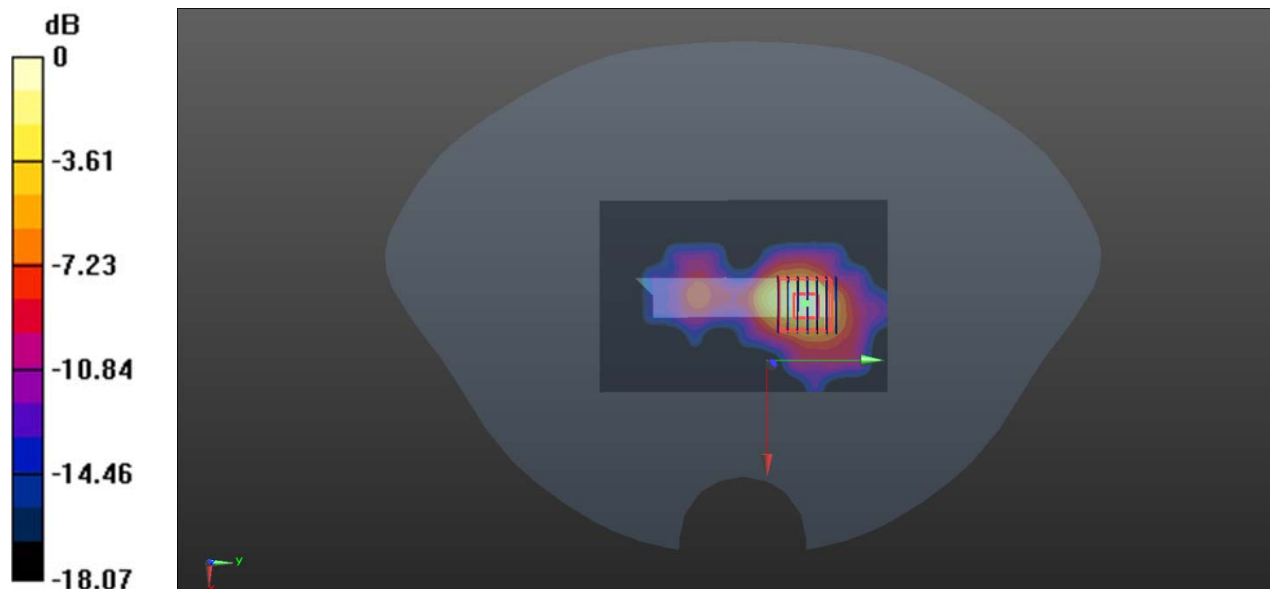
Ch 36/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.132 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.861 W/kg

SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.066 W/kg

Maximum value of SAR (measured) = 0.427 W/kg



0 dB = 0.427 W/kg

MEAS.35 Body Plane with Top Edge 10mm on Channel 165 in IEEE802.11a mode

Date: 2020.03.31

Communication System Band: WLAN(a); Frequency: 5825 MHz; Duty Cycle: 1:1.02

Medium parameters used: $f = 5825$ MHz; $\sigma = 5.475$ S/m; $\epsilon_r = 34.285$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.06, 5.06, 5.06); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 165/Area Scan (81x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.06 W/kg

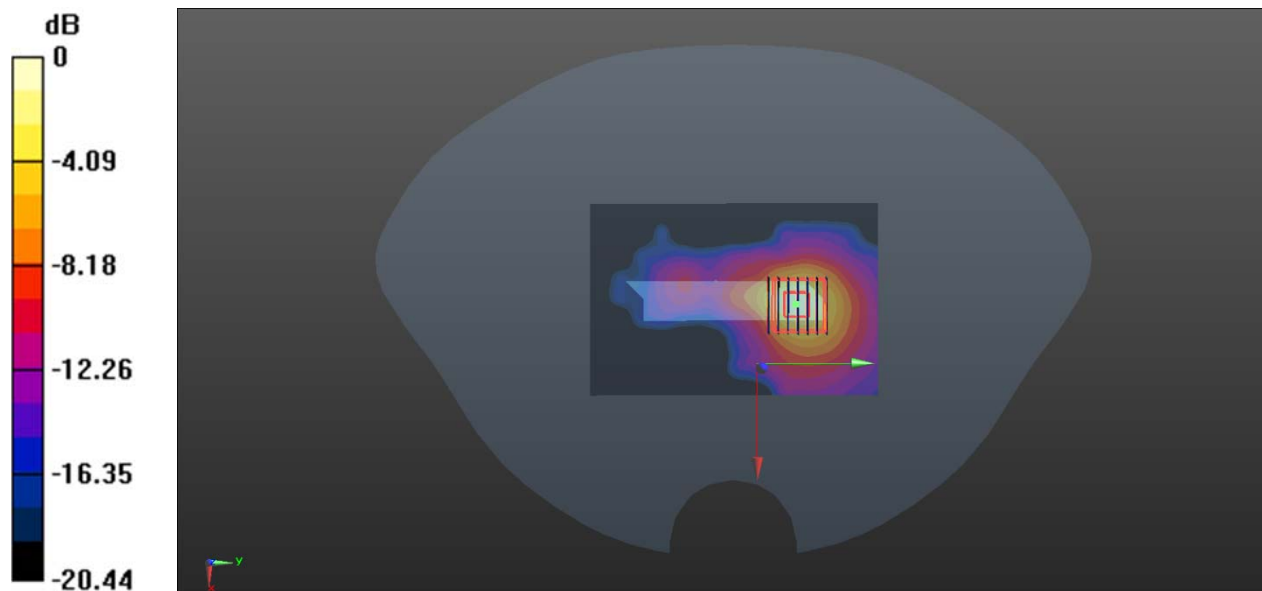
Ch 165/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.898 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.47 W/kg

SAR(1 g) = 0.528 W/kg; SAR(10 g) = 0.168 W/kg

Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.10 W/kg

MEAS.36 Body Plane with Top Edge 0mm on Channel 60 in IEEE802.11a mode

Date: 2020.03.29

Communication System Band: WLAN(a); Frequency: 5300 MHz; Duty Cycle: 1:1.02

Medium parameters used: $f = 5300$ MHz; $\sigma = 4.868$ S/m; $\epsilon_r = 35.008$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.4 Liquid Temperature:21.2

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(5.51, 5.51, 5.51); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 60/Area Scan (81x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 6.46 W/kg

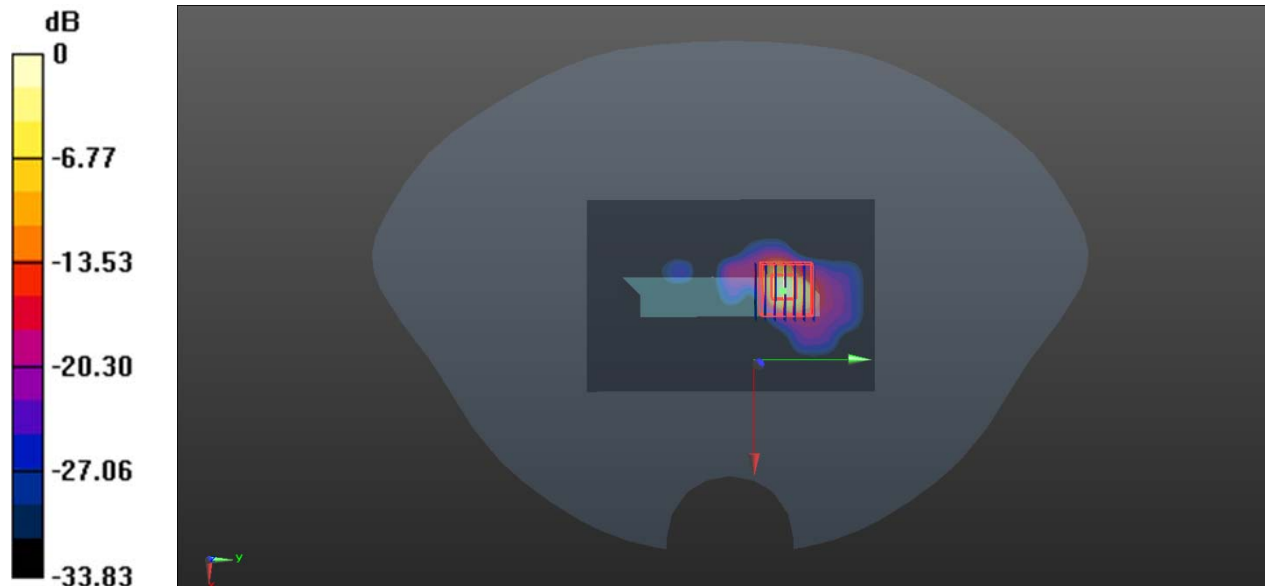
Ch 60/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.741 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 26.2 W/kg

SAR(1 g) = 3.35 W/kg; SAR(10 g) = 0.526 W/kg

Maximum value of SAR (measured) = 8.73 W/kg



0 dB = 8.73 W/kg

MEAS.37 Body Plane with Top Edge 0mm on Channel 116 in IEEE802.11a mode

Date: 2020.03.30

Communication System Band: WLAN(a); Frequency: 5580 MHz; Duty Cycle: 1:1.02

Medium parameters used: $f = 5580$ MHz; $\sigma = 5.102$ S/m; $\epsilon_r = 36.332$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(4.8, 4.8, 4.8); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 116/Area Scan (81x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

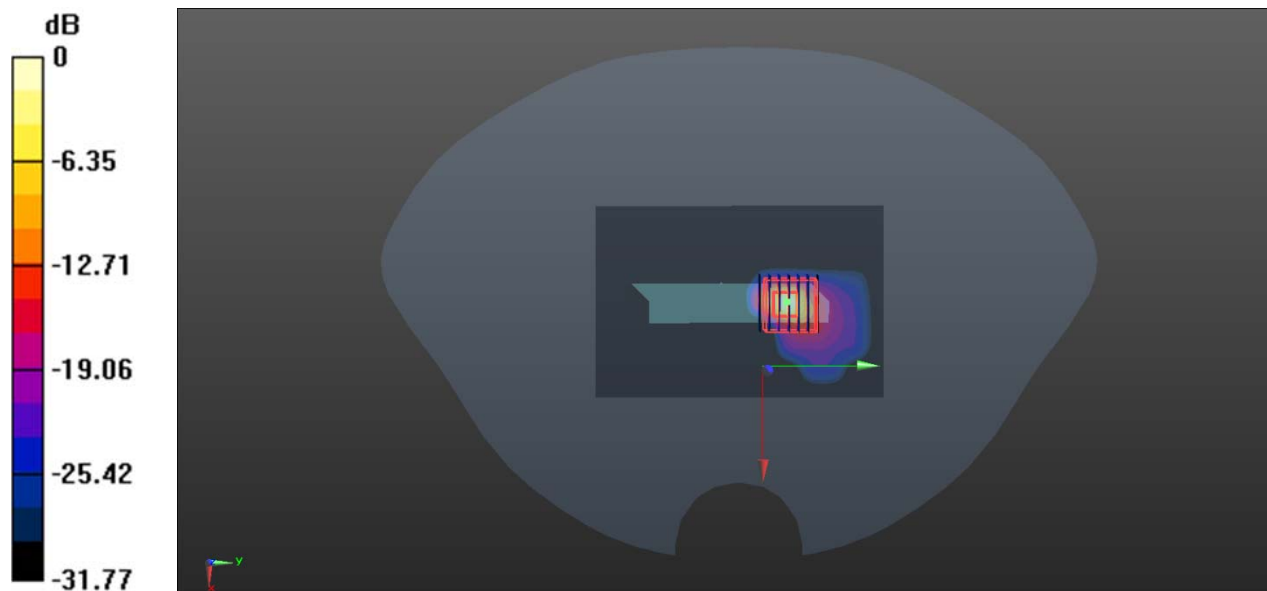
Ch 116/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.8450 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 36.2 W/kg

SAR(1 g) = 3.98 W/kg; SAR(10 g) = 0.608 W/kg

Maximum value of SAR (measured) = 11.4 W/kg



0 dB = 11.4 W/kg

MEAS.38 Left Head with Cheek on High Channel in Bluetooth DH5 mode

Date: 2020.03.27

Communication System Band: BT; Frequency: 2480 MHz; Duty Cycle: 1:1.09

Medium parameters used: $f = 2480$ MHz; $\sigma = 1.82$ S/m; $\epsilon_r = 38.513$; $\rho = 1000$ kg/m³

Phantom section: Left Section

Ambient Temperature:22.2 Liquid Temperature:21.1

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 78/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

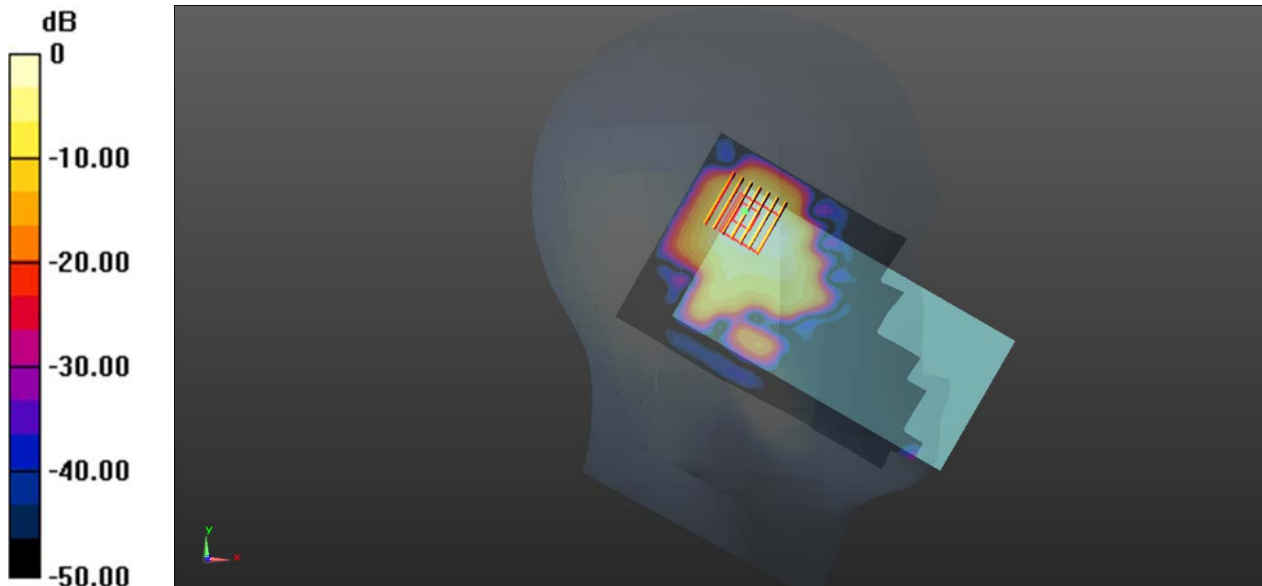
Ch 78/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.718 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.394 W/kg

SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.080 W/kg

Maximum value of SAR (measured) = 0.186 W/kg



0 dB = 0.186 W/kg

MEAS.39 Body Plane with Back Side 10mm on High Channel in Bluetooth DH5 mode

Date: 2020.03.27

Communication System Band: BT; Frequency: 2480 MHz; Duty Cycle: 1:1.09

Medium parameters used: $f = 2480$ MHz; $\sigma = 1.82$ S/m; $\epsilon_r = 38.513$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient Temperature:22.3 Liquid Temperature:21.4

DASY5 Configuration:

- Probe: EX3DV4 - SN7510; ConvF(7.81, 7.81, 7.81); Calibrated: 2019.08.02;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1454; Calibrated: 2019.08.02
- 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)

Ch 78/Area Scan (91x151x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0261 W/kg

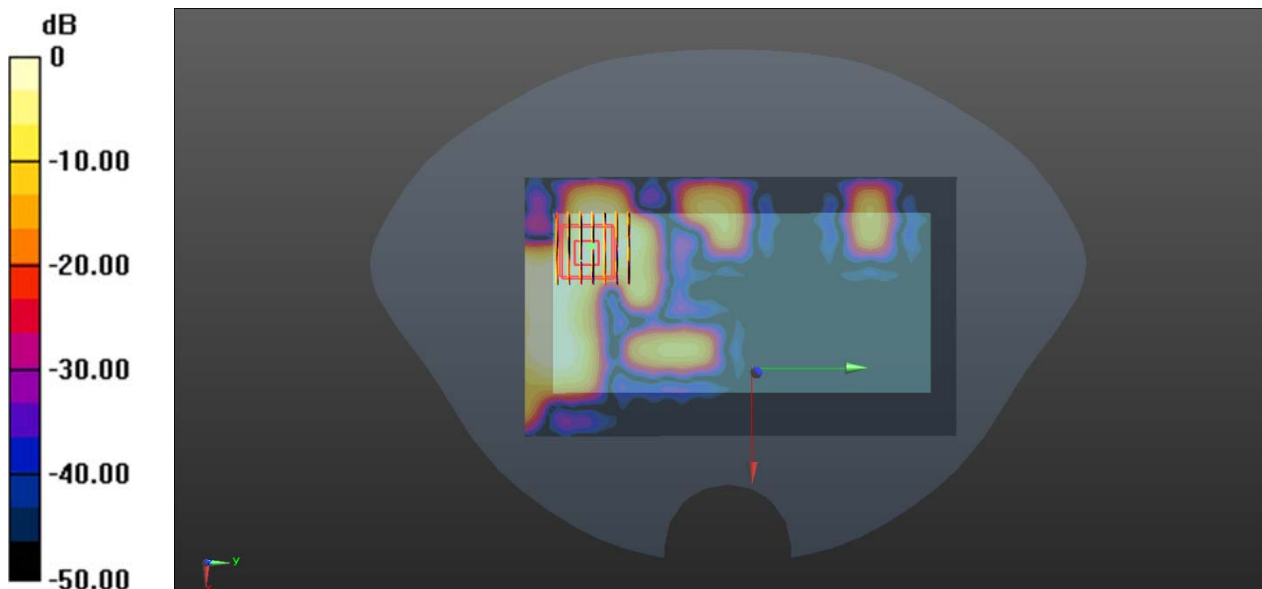
Ch 78/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.477 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.036 W/kg

SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.0063 W/kg

Maximum value of SAR (measured) = 0.0207 W/kg



0 dB = 0.0207 W/kg

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ2020267-AW.pdf".

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document "BL-SZ2020267-AS.pdf".

ANNEX F CALIBRATION REPORT

Please refer the document "CALIBRATION REPORT.pdf".

--END OF REPORT--