FCC SAR Test Report

Report No.: FA0D0715

Cert #5145.02

APPLICANT : Motorola Mobility LLC

: Mobile Phone **EQUIPMENT**

BRAND NAME : Motorola

MODEL NAME : XT2097-12

FCC ID : IHDT56ZJ2

STANDARD : FCC 47 CFR Part 2 (2.1093)

The product was received on Dec. 07, 2020 and testing was started from Dec. 24, 2020 and completed on Jan. 09, 2021. We, Sporton International (Kunshan) Inc, would like to declare that the tested sample has been evaluated in accordance with the procedures and had been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Rose Wang / Supervisor

Approved by: Kat Yin / Manager

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Revision History

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REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA0D0715	Rev. 01	Initial issue of report	Jan. 20, 2021
FA0D0715	Rev. 02	Updated the sample 2 IMEI information	Jan. 28, 2021

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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Motorola Mobility LLC, Mobile Phone, XT2097-12, are as follows

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Wobile Pho	ile, A i Zu	31-12 , ale a		boot 1 a CAD	Cummanı				
			ніg	hest 1g SAF				101	
Equipment Class			quency and		Head (Separation 0mm)	Hotspot (Separation 5mm)	Body-worn (Separation 5mm)	Highest Simultaneous Transmission	
Class		D	ariu			1g SAR (W/kg)	1g SAR (W/kg)	
		SM	GSM	1 850	0.30	1.05	1.05		
	G	SIVI	GSM	1900	0.12	1.27	1.27		
			Bar	nd II	0.20	1.32	1.31		
	WC	DMA	Ban	d IV	0.20	1.26	1.10		
Licensed			Band V		0.22	0.68	0.68	1.58	
			Band 2		0.19	1.37	1.37		
	1.	TE	Band 5		0.22	0.62	0.62		
		IE	Band 7		0.15	1.30	1.22		
		Band		66/4	0.18	1.25	1.25		
DTS	WI	LAN	2.4GHz	WLAN	0.34	0.52	0.52	1.57	
DSS	Blue	etooth	2.4GHz E	Bluetooth	0.17	0.30	0.30	1.58	
			Higl	hest 10g SAI	R Summary				
Equipn Clas				uency and			pecific 10g SA eparation 0mn		
		GS	SM	GSM	11900	1.98			
		MC	DMA	Bai	nd II	2.91			
Licens		WC	JIVIA	Bar	Band IV		1.07		
Licens	sea			Baı	nd 2	2.91			
		Lī	ГЕ	Bai	nd 7		1.39		
				Band	d 66/4	0.98			
		Date o	of Testing:			202	0/12/24~2021/	/1/9	

Remark: This device supports LTE B4 and B66. Since the supported frequency span for LTE B4 falls completely within the supports frequency span for LTE B66, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B66.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

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2. Administration Data

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

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Testing Laboratory						
Test Firm	Sporton International (Kunshan) Inc.					
Test Site Location	No. 1098, Pengxi North Road, Kunshan Econol Jiangsu Province 215300 People's Republic of TEL: +86-512-57900158 FAX: +86-512-57900958	•				
Took Cita No	FCC Designation No.	FCC Test Firm Registration No.				
Test Site No.	CN1257	314309				

Applicant			
Company Name	Motorola Mobility LLC		
Address	222 W, Merchandise Mart Plaza, Chicago IL 60654 USA		

Manufacturer Manufacturer			
Company Name	Motorola Mobility LLC		
Address	222 W, Merchandise Mart Plaza, Chicago IL 60654 USA		

3. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- · ANSI/IEEE C95.1-1992
- · IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01

4. Equipment Under Test (EUT) Information

4.1 General Information

quipment Name Mobile Phone	
rand Name Motorola	
lodel Name XT2097-12	
CC ID IHDT56ZJ2	
Sample 1 IMEI 1: 354249350010380 IMEI 2: 354249350035387 Sample 2: 351372730042304	
GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz	
GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+(16QAM uplink) LTE: QPSK, 16QAM, 64QAM WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth BR/EDR/LE	
W Version DVT2	
W Version QOJ30.26	
SM / (E)GPRS Class B – EUT cannot support Packet Switched and Circuit Switched Network simu	taneously
ransfer mode but can automatically switch between Packet and Circuit Switched Network.	
but can automatically ewiton between 1 done and emount ewitonic network.	

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Remark:

- 1. 802.11n-HT40 is not supported in 2.4GHz WLAN.
- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- 3. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- 4. This device does not support DTM operation and supports GRPS/EGRPS mode up to multi-slot class 12.
- 5. The device implements receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). The device will invoke corresponding work scenarios power level, which are provided in the operational description.
- For Some WWAN bands, Receiver off body-worn power level higher than hotspot reduced power level, so front/back Receiver off body-worn SAR can represent hotspot conservatively.
- 7. There are three samples. According to the difference, we chose sample 1 to perform full SAR testing and sample 2 verified the worst case of sample 1.
- For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 slot to perform all tests.
- 9. The device has two headsets, only supplier is different, so we chose headset 1 to perform full SAR testing.
- 10. The device has three batteries with the same battery capacity, only Manufacturer is different. We only chose battery 1 to perform full SAR testing.

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4.2 General LTE SAR Test and Reporting Considerations

Summarize	d necessary ite	ms addres	sed in KD	B 94122	25 D05 v02	2r05		
FCC ID	IHDT56ZJ2							
Equipment Name	Mobile Phone							
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz							
Channel Bandwidth	LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz							
uplink modulations used	QPSK / 16QAM	1 / 64QAM						
LTE Voice / Data requirements	Voice and Data							
LTE Release Version	R11, Cat5							
CA Support	Not supported							
	Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 a						and 3 MPR (dB)	
LTE MPR permanently built-in by design								
LIL WILL Permanently built-in by design	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
	16 QAM	≤ 5	≤ 4	≤ 8	> 12 ≤ 12	≤ 16	≤ 18	≤ 1
The Milite permanentity built-in by design	16 QAM 16 QAM	≤ 5 > 5	≤ 4 > 4	≤ 8 > 8	> 12 ≤ 12 > 12	≤ 16 > 16	≤ 18 > 18	≤ 1 ≤ 2
The Milite permanentity bulletin by design	16 QAM 16 QAM 64 QAM	≤ 5 > 5 ≤ 5	≤ 4 > 4 ≤ 4	≤ 8 > 8 ≤ 8	> 12 ≤ 12 > 12 ≤ 12	≤ 16 > 16 ≤ 16	≤ 18 > 18 ≤ 18	≤ 1 ≤ 2 ≤ 2
THE WILLY PERMANERING BUILTING BY DESIGN	16 QAM 16 QAM 64 QAM 64 QAM	≤ 5 > 5	≤ 4 > 4	≤ 8 > 8	> 12 ≤ 12 > 12 ≤ 12 ≤ 12 > 12	≤ 16 > 16	≤ 18 > 18	≤ 1 ≤ 2 ≤ 2 ≤ 3
LTE A-MPR	16 QAM 16 QAM 64 QAM	≤ 5 > 5 ≤ 5 > 5	≤ 4 > 4 ≤ 4 > 4 or configura	≤ 8 > 8 ≤ 8 > 8	> 12 ≤ 12 > 12 ≤ 12 > 12 ≥ 12 ≥ 1	≤ 16 > 16 ≤ 16 > 16 ing value is	≤ 18 > 18 ≤ 18 > 18	≤ 1 ≤ 2 ≤ 2 ≤ 3 ≤ 5 01 to disable
	16 QAM 16 QAM 64 QAM 64 QAM 256 QAM In the base stati A-MPR during	≤5 >5 ≤5 >5 ion simulate SAR testin nfigured b therefore, s	≤ 4 > 4 ≤ 4 > 4 or configurating and the ase statio	≤ 8 > 8 ≤ 8 > 8 LTE SA	> 12 ≤ 12 > 12 ≤ 12 > 12 ≥ 12 ≥ 1 etwork Sett AR tests water was	≤ 16 > 16 ≤ 16 > 16 ing value is vas transmi	≤ 18 > 18 ≤ 18 ≤ 18 > 18 itting on al	≤ 1 ≤ 2 ≤ 2 ≤ 3 ≤ 5 01 to disable 1 TTI frames and power

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			Transmis	sion (H, M	l, L) cha	nnel number	s and freq	uenci	es in	each LTE	band		
						LTE Ba	nd 2						
	Bandwidth	1.4 MHz	Bandwid	th 3 MHz	Bandv	idth 5 MHz	Bandwidt	h 10 N	ЛНz	Bandwidt	h 15 MHz	Bandwid	lth 20 MHz
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Fre (MF		Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	18625	1852.5	18650	18	55	18675	1857.5	18700	1860
М	18900	1880	18900	1880	18900	1880	18900	188	80	18900	1880	18900	1880
Н	19193	1909.3	19185	1908.5	19175	1907.5	19150	190	05	19125	1902.5	19100	1900
						LTE Ba							
	Bandwidth		Bandwid		Bandv	idth 5 MHz	Bandwidt			Bandwidt	h 15 MHz	Bandwid	lth 20 MHz
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Fre (MF		Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	19957	1710.7	19965	1711.5	19975	1712.5	20000	17	15	20025	1717.5	20050	1720
M	20175	1732.5	20175	1732.5	20175	1732.5	20175	173	2.5	20175	1732.5	20175	1732.5
Н	20393	1754.3	20385	1753.5	20375	1752.5	20350	17	50	20325	1747.5	20300	1745
						LTE Ba	nd 5						
	Band	dwidth 1.4	MHz	Bar	ndwidth 3 MHz		Bandwidth 5 MHz		Bandwidth 10 MHz				
	Ch. #	Fre	q. (MHz)	Ch. #		req. (MHz)	Ch. #		Fre	q. (MHz)	Ch. #	Fr	eq. (MHz)
L	20407		824.7	20415		825.5	20425			826.5	20450		829
М	20525		836.5	20525	25 836.5		20525			836.5	20525		836.5
Н	20643		848.3	20635	5	847.5	20625	846.5		20600		844	
						LTE Ba							
	-	idwidth 5 N		-	dwidth 1	-		dwidth				dwidth 20	
	Ch. #		q. (MHz)	Ch. #		req. (MHz)	Ch. #			q. (MHz)	Ch. #		eq. (MHz)
L	20775		2502.5	20800		2505	20825			2507.5	20850		2510
M	21100		2535	21100		2535	21100			2535	21100		2535
Н	21425	2	2567.5	21400)	2565	21375)	2	2562.5	21350)	2560
	5					LTE Bar							
	Bandwidth		Bandwid	-	Bandy	vidth 5 MHz	Bandwidt			Bandwidt	h 15 MHz	Bandwid	lth 20 MHz
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Fre (MF		Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	131979	1710.7	131987	1711.5	13199		132022	17		132047	1717.5	132072	1720
M	132322	1745	132322	1745	13232		132322	174		132322	1745	132322	1745
Н	132665	1779.3	132657	1778.5	13264	7 1777.5	132622	177	75	132597	1772.5	132572	1770

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5. RF Exposure Limits

5.1 Uncontrolled Environment

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

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5.2 Controlled Environment

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

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Anklo		
0.08	1.6	4.0		

Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

6. Specific Absorption Rate (SAR)

6.1 Introduction

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.

6.2 SAR Definition

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:

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

SAR is expressed in units of Watts per kilogram (W/kg)

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

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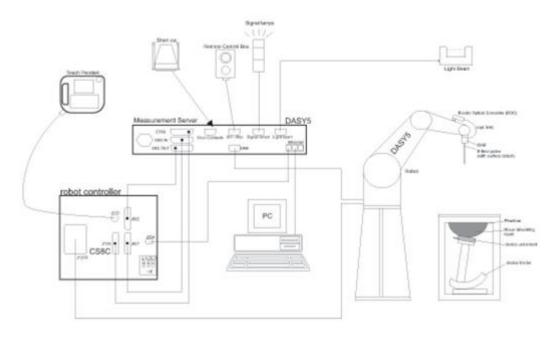
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7. System Description and Setup

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

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- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning
- The phantom, the device holder and other accessories according to the targeted measurement.

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7.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Frequency	10 MHz – 4 GHz; Linearity: ±0.2 dB (30 MHz – 4 GHz)
Directivity	±0.2 dB in TSL (rotation around probe axis)
	±0.3 dB in TSL (rotation normal to probe axis)
Dynamic Range	5 μW/g – >100 mW/g; Linearity: ±0.2 dB
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm



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<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)					
	10 MHz – >6 GHz					
Frequency	Linearity: ±0.2 dB (30 MHz – 6 GHz)					
	±0.3 dB in TSL (rotation around probe axis)					
Directivity	±0.5 dB in TSL (rotation normal to probe axis)					
B B	10 μW/g – >100 mW/g					
Dynamic Range	Linearity: ±0.2 dB (noise: typically <1 µW/g)					
	Overall length: 337 mm (tip: 20 mm)					
·	Tip diameter: 2.5 mm (body: 12 mm)					
Dimensions	Typical distance from probe tip to dipole centers:					
	1 mm					
	1 111111					



7.2 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and 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.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Photo of DAE

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7.3 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	7 5
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

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. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

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<ELI Phantom>

Shell Thickness	2 ± 0.2 mm (sagging: <1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

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7.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.





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Mounting Device for Hand-Held **Transmitters**

Mounting Device Adaptor for Wide-Phones

<Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

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8. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

(a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.

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- (b) Read the WWAN RF power level from the base station simulator.
- (c) For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

8.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values form the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

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8.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

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8.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
	\leq 2 GHz: \leq 15 mm 2 – 3 GHz: \leq 12 mm	$3 - 4 \text{ GHz:} \le 12 \text{ mm}$ $4 - 6 \text{ GHz:} \le 10 \text{ mm}$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension o measurement plane orientation the measurement resolution r x or y dimension of the test dimeasurement point on the test	on, is smaller than the above, must be \leq the corresponding levice with at least one

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8.4 Zoom Scan

Zoom scans are used assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube shoes base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

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Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz		
Maximum zoom scan s	spatial reso	lution: Δx _{Zoom} , Δy _{Zoom}	\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$		
	uniform	grid: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm		
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm		
	grid	Δz _{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$			
Minimum zoom scan volume	x, y, z		≥ 30 mm	$3 - 4 \text{ GHz:} \ge 28 \text{ mm}$ $4 - 5 \text{ GHz:} \ge 25 \text{ mm}$ $5 - 6 \text{ GHz:} \ge 22 \text{ mm}$		

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

8.5 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

8.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

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When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}, \leq 8 \text{ mm}, \leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

9. Test Equipment List

			0 : 111 1	Calib	ration
Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date
SPEAG	835MHz System Validation Kit	D835V2	4d151	2019/3/27	2022/3/26
SPEAG	1750MHz System Validation Kit	D1750V2	1090	2019/3/27	2022/3/26
SPEAG	1900MHz System Validation Kit	D1900V2	5d170	2019/3/26	2022/3/25
SPEAG	2450MHz System Validation Kit	D2450V2	908	2019/3/25	2022/3/24
SPEAG	2600MHz System Validation Kit	D2600V2	1061	2020/11/26	2023/11/25
SPEAG	Data Acquisition Electronics	DAE4	1279	2020/8/25	2021/8/24
SPEAG	Data Acquisition Electronics	DAE4	1303	2020/7/7	2021/7/6
SPEAG	Dosimetric E-Field Probe	ES3DV3	3293	2020/9/23	2021/9/22
SPEAG	Dosimetric E-Field Probe	ES3DV4	3857	2020/9/25	2021/9/24
SPEAG	SAM Twin Phantom	QD 000 P40 CB	TP-1503	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio Communication Analyzer	MT8821C	6201432831	2020/4/14	2021/4/13
Agilent	Wireless Communication Test Set	E5515C	MY52102706	2020/5/19	2021/5/18
Agilent	ENA Series Network Analyzer	E5071C	MY46106933	2020/8/1	2021/7/31
SPEAG	Dielectric Probe Kit	DAK-3.5	1144	2020/12/2	2021/12/1
Anritsu	Vector Signal Generator	MG3710A	6201682672	2020/1/8	2021/1/7
Anritsu	Vector Signal Generator	MG3710A	6201682672	2021/1/7	2022/1/6
Rohde & Schwarz	Power Meter	NRVD	102081	2020/8/13	2021/8/12
Rohde & Schwarz	Power Sensor	NRV-Z5	100538	2020/8/13	2021/8/12
Rohde & Schwarz	Power Sensor	NRV-Z5	100539	2020/8/13	2021/8/12
R&S	CBT BLUETOOTH TESTER	CBT	101246	2020/4/14	2021/4/13
EXA	Spectrum Analyzer	FSV7	101631	2020/1/8	2021/1/7
EXA	Spectrum Analyzer	FSV7	101631	2021/1/7	2022/1/6
Testo	Hygrometer	608-H1	1241332088	2020/1/8	2021/1/7
Testo	Hygrometer	608-H1	1241332088	2021/1/7	2022/1/6
FLUKE	DIGITAC THERMOMETER	51II	97240029	2020/8/14	2021/8/13
ARRA	Power Divider	A3200-2	N/A	No	te 1
MCL	Attenuation1	BW-S10W5+	N/A	No	te 1
MCL	Attenuation2	BW-S10W5+	N/A	No	te 1
MCL	Attenuation3	BW-S10W5+	N/A	No	te 1
Agilent	Dual Directional Coupler	778D	20500	No	te 1
Agilent	Dual Directional Coupler	11691D	MY48151020	No	te 1
BONN	POWER AMPLIFIER	BLMA 0830-3	087193A	No	te 1
BONN	POWER AMPLIFIER	BLMA 2060-2	087193B	No	te 1

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Note:

- 1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check
- Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
- The justification data of dipole can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

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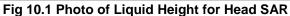
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10. System Verification

10.1 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. 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, which is shown in Fig. 10.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.2.







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Fig 10.2 Photo of Liquid Height for Body SAR

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10.2 Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

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Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (εr)				
	For Head											
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5				
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0				
2450	55.0	0	0	0	0	45.0	1.80	39.2				
2600	54.8	0	0	0.1	0	45.1	1.96	39.0				

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
835	Head	22.6	0.912	41.635	0.90	41.50	1.33	0.33	±5	2020/12/24
1750	Head	22.7	1.368	39.457	1.37	40.10	-0.15	-1.60	±5	2020/12/27
1900	Head	22.8	1.430	40.386	1.40	40.00	2.14	0.97	±5	2020/12/30
2450	Head	22.6	1.841	38.237	1.80	39.20	2.28	-2.36	±5	2021/1/4
2600	Head	22.6	2.053	37.801	1.96	39.00	4.74	-3.07	±5	2021/1/9

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10.3 System Performance Check Results

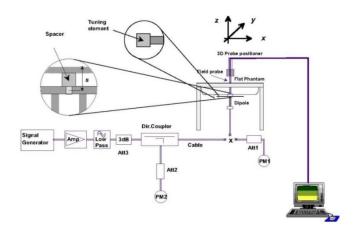
Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

<1g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2020/12/24	835	Head	250	4d151	3857	1279	2.35	9.30	9.4	1.08
2020/12/27	1750	Head	250	1090	3857	1279	8.98	36.40	35.92	-1.32
2020/12/30	1900	Head	250	5d170	3857	1279	9.66	39.00	38.64	-0.92
2021/1/4	2450	Head	250	908	3293	1303	12.50	52.80	50	-5.30
2021/1/9	2600	Head	250	1061	3857	1279	14.20	56.60	56.8	0.35

<10g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N			Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2020/12/24	835	Head	250	4d151	3857	1279	1.53	6.16	6.12	-0.65
2020/12/27	1750	Head	250	1090	3857	1279	4.88	19.20	19.52	1.67
2020/12/30	1900	Head	250	5d170	3857	1279	5.03	20.30	20.12	-0.89
2021/1/4	2450	Head	250	908	3293	1303	6.07	24.20	24.28	0.33
2021/1/9	2600	Head	250	1061	3857	1279	6.56	25.10	26.24	4.54







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Fig 11.3.2 Setup Photo

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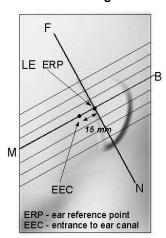
11. RF Exposure Positions

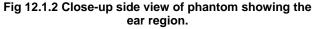
11.1 Ear and handset reference point

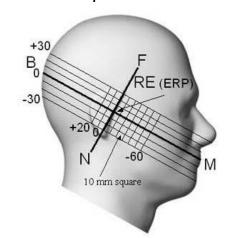
Figure 12.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled "M," the left ear reference point (ERP) is marked "LE," and the right ERP is marked "RE." Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 12.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 12.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 12.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.



Fig 12.1.1 Front, back, and side views of SAM twin phantom







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Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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11.2 Definition of the cheek position

- Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
- Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width wt of the handset at the level of the acoustic output (point A in Figure 12.2.1 and Figure 12.2.2), and the midpoint of the width wb of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 12.2.1). 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 centerline is not necessarily parallel to the front face of the handset (see Figure 12.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
- Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 12.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
- Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
- While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane 5. normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
- Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
- 7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 12.2.3. The actual rotation angles should be documented in the test report.

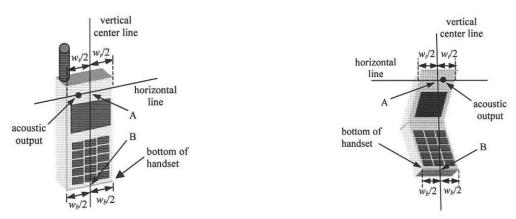


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case

Fig 12.2.2 Handset vertical and horizontal reference lines-"clam-shell case"

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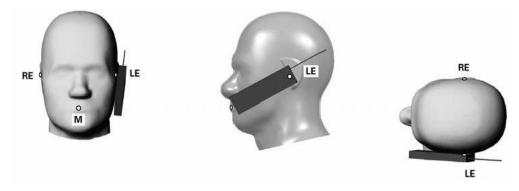


Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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11.3 Definition of the tilt position

Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.

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- While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
- Rotate the handset around the horizontal line by 15°.
- 4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 12.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

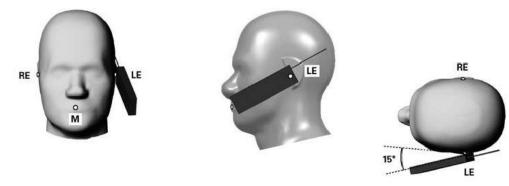


Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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11.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 12.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

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

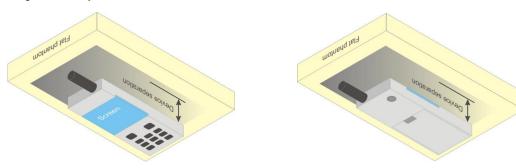


Fig 12.4 Body Worn Position

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11.5 Product Specific 10g SAR Exposure

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, According to KDB648474 D04v01r03, 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

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- 1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
- 2. 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.6 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.

11.6 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined form general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

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12. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<GSM Conducted Power>

 Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.

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- 2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS 3Tx slots for GSM850 and GPRS 2Tx slots for GSM1900 are considered as the primary mode.
- Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction
 procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a
 secondary mode is ≤ ¼ dB higher than the primary mode, SAR measurement is not required for the secondary
 mode.

<WCDMA Conducted Power>

- 1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
- 2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
- 3. For HSPA+ devices supporting 16 QAM in the uplink, power measurements procedure is according to the configurations in Table C.11.1.4 of 3GPP TS 34.121-1.
- 4. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

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HSDPA Setup Configuration:

a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.

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- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Γ	Sub-test	βc	βa	βa	β₀/βd	Внѕ	CM (dB)	MPR (dB)
				(SF)		(Note1,	(Note 3)	(Note 3)
L						Note 2)		
	1	2/15	15/15	64	2/15	4/15	0.0	0.0
Г	2	12/15	15/15	64	12/15	24/15	1.0	0.0
L		(Note 4)	(Note 4)		(Note 4)			
	3	15/15	8/15	64	15/8	30/15	1.5	0.5
	4	15/15	4/15	64	15/4	30/15	1.5	0.5

- Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.
- Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, \triangle_{ACK} and \triangle_{NACK} = 30/15 with β_{hs} = 30/15 * β_c , and \triangle_{CQI} = 24/15 with β_{hs} = 24/15 * β_c .
- Note 3: CM = 1 for β_0/β_d =12/15, β_{hs}/β_c =24/15. For all other combinations of DPDCH, DPCCH and HSDPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.
- Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 11/15 and β_d = 15/15.

Setup Configuration

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HSUPA Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting *:
 - Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test ii. in the following table, C11.1.3, quoted from the TS 34.121

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- Set Cell Power = -86 dBm
- iv. Set Channel Type = 12.2k + HSPA
- v. Set UE Target Power
 vi. Power Ctrl Mode= Alternating bits
- vii. Set and observe the E-TFCI
- viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub- test	βα	βd	β _d (SF)	βс/βа	βнs (Note1)	Вес	β _{ed} (Note 4) (Note 5)	β _{ed} (SF)	β _{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E- TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/2 25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β _{ed} 1: 47/15 β _{ed} 2: 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

- Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c . For sub-test 5, Δ_{ACK} , Δ_{NACK} and Δ_{CQI} = 5/15 with $\beta_{hs} = 5/15 * \beta_c$.
- CM = 1 for β_c/β_d =12/15, $\beta_h = \beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH Note 2: and E-DPCCH the MPR is based on the relative CM difference.
- For subtest 1 the β_d/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by Note 3: setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15.
- In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to Note 4:
- Bed can not be set directly; it is set by Absolute Grant Value. Note 5:
- For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly Note 6: smaller MPR values.

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DC-HSDPA 3GPP release 8 Setup Configuration:

- The EUT was connected to Base Station referred to the Setup Configuration below
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting: C.
 - Set RMC 12.2Kbps + HSDPA mode.
 - Set Cell Power = -25 dBm
 - Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
 - Select HSDPA Uplink Parameters iv.
 - Set Gain Factors (β_c and β_d) and parameters were set according to each Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121

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- a). Subtest 1: $\beta_c/\beta_d=2/15$ b). Subtest 2: $\beta_c/\beta_d=12/15$
- c). Subtest 3: $\beta_0/\beta_d=15/8$
- d). Subtest 4: $\beta_c/\beta_d=15/4$
- Set Delta ACK, Delta NACK and Delta CQI = 8 vi.
- Set Ack-Nack Repetition Factor to 3 vii.
- viii. Set CQI Feedback Cycle (k) to 4 ms
- Set CQI Repetition Factor to 2 ix.
- Power Ctrl Mode = All Up bits
- The transmitted maximum output power was recorded.

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

C.8.1.12 Fixed Reference Channel Definition H-Set 12

Table C.8.1.12: Fixed Reference Channel H-Set 12

	Parameter	Unit	Value					
Nominal	Avg. Inf. Bit Rate	kbps	60					
Inter-TTI	Distance	TTľs	1					
Number of	of HARQ Processes	Proces	6					
		ses						
Information	on Bit Payload ($N_{\it INF}$)	Bits	120					
Number (Code Blocks	Blocks	1					
Binary Cl	nannel Bits Per TTI	Bits	960					
Total Ava	ilable SML's in UE	SML's	19200					
Number of	of SML's per HARQ Proc.	SML's	3200					
Coding R	ate		0.15					
Number of	of Physical Channel Codes	Codes	1					
Modulatio	on		QPSK					
Note 1:	Note 1: The RMC is intended to be used for DC-HSDPA							
	mode and both cells shall transmit with identical							
parameters as listed in the table.								
Note 2:	is limited to							
	retransmission is not allowed. The redundancy and							
constellation version 0 shall be used.								

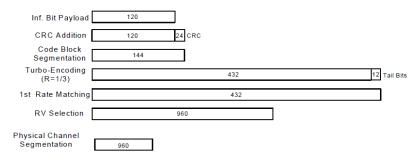


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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HSPA+ 3GPP release 7 (uplink category 7) 16QAM, Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting *:
 - Call Configs = 5.2E:HSPA+:UL with 16QAM
 - Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test ii. in the following table, C11.1.4, quoted from the TS 34.121-1 s5.2E

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- Set Channel Parms
- iv. Set Cell Power = -86 dBm
- ٧. Set Channel Type = HSPA
- vi. Set UE Target Power =21 dBm vii. Power Ctrl Mode= All Up Bits
- viii. Set Manual Uplink DPCH Bc/Bd = Manual
- ix. Set Manual Uplink DPCH Bc and Bd=15,15(for 34.121-1 v8.10.0 table C11.1.4 sub-test 1)
- Set HSPA Conn DL Channel Levels
- xi. Set HS-SCCH Configs
- xii. Set RB Test Mode Setup
- xiii. Set Common HSUPA Parameters
- xiv. Set Serving Grant
- xv. Confirm that E-TFCI is equal to the target E-TFCI of 105 for sub-test 1, and other subtest's E-TFCI
- The transmitted maximum output power was recorded.

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

Sub- test	β _c (Note3)	β _d	β _{HS} (Note1)	β _{ec}	β _{ed} (2xSF2) (Note 4)	β _{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)		E-TFCI (Note 5)	
1	1	0	30/15	30/15	β _{ed} 1: 30/15 β _{ed} 2: 30/15	β _{ed} 3: 24/15 β _{ed} 4: 24/15	3.5	2.5	14	105	105

- Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_{C}$
- Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).
- Note 3: DPDCH is not configured, therefore the β_c is set to 1 and β_d = 0 by default.
- β_{ed} can not be set directly; it is set by Absolute Grant Value. Note 4:
- All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-Note 5: DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signaled to use the extrapolation algorithm.

Setup Configuration

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<WCDMA Conducted Power>

General Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

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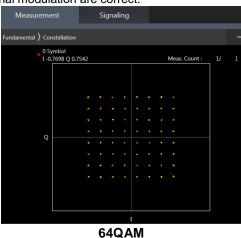
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA / HSPA+ is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA / HSPA+ to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA / HSPA+) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+

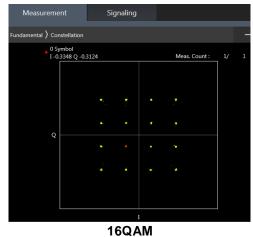
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<LTE Conducted Power>

General Note:

- 1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
- 2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
- 3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- 4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 5. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- 6. Per KDB 941225 D05v02r05, 16QAM/64QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM SAR testing is not required.
- 7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not 1/2 dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
- 8. For LTE B4 / B5 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
- 9. LTE B4 SAR test was covered by B66; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger
- 10. According to 2017 TCB workshop, for 64 QAM and 16 QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 64QAM and 16QAM signal modulation are correct.





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<WLAN Conducted Power>

General Note:

1. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.

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- 2. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
- 3. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
- 4. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

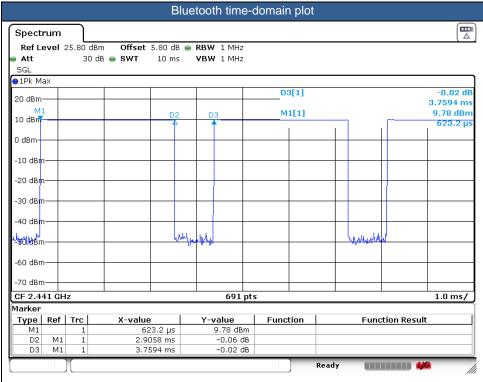
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<2.4GHz Bluetooth>

General Note:

- For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
- The Bluetooth duty cycle is 77.29 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to100% for Bluetooth reported SAR calculation.

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13. Antenna Location

The detailed antenna location information can refer to SAR Test Setup Photos.

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14. SAR Test Results

General Note:

- 1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of WLAN/Bluetooth signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - d. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
- 2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - · ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - · ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - · ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- 3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- 4. Pre KDB648474 D04v01r03, when the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset. When headset SAR is less than or equal than without headset SAR, no need to verify the remaining channels for headset SAR.
- 5. The device implements receiver detect mechanism/hotspot trigger reduced power for the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). The device will invoke corresponding work scenarios power level, which are provided in the operational description.
- 6. For Some WWAN bands, Receiver off body-worn power level higher than hotspot reduced power level, so front/back receiver off body-worn SAR can represent hotspot conservatively.
- 7. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, 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, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power (for handheld on state, the maximum full power means reduced power), including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
 - a. For this device SAR for WWAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM1900, WCDMA Band II/IV and LTE Band 2/4/7/66 therefore product specific 10g SAR is necessary.
 - b. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
- 8. The device has two headsets, only supplier is different, so we chose headset 1 to perform full SAR testing.
- 9. The device has three batteries with the same battery capacity, only Manufacturer is different. We only chose battery 1 to perform full SAR testing.
- 10. There are three samples, please refer the product equality declaration exhibit submitted. According to the difference, we chose sample 1 to perform full SAR testing and sample 2 verified the worst case of sample 1.
- 11. For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 slot to perform all tests.

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GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS 3Tx slots for GSM850 and GPRS 2Tx slots for GSM1900 are considered as the primary mode.

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2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode, SAR measurement is not required for the secondary mode.

WCDMA Note:

- 1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
- 2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA / HSPA+ is ≤ ¼ dB higher than RMC 12.2kbps or when the highest reported SAR of the RMC12.2kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA / HSPA+ to RMC12.2kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA / HSPA+) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+.

LTE Note:

- 1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- 2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- 4. Per KDB 941225 D05v02r05, 16QAM/64QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM SAR testing is not required.
- 5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
- 6. For LTE B4 / B5 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
- 7. LTE B4 SAR test was covered by LTE B66; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

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WLAN/ Bluetooth Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

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- When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
- 3. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
- 4. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
- 5. Based on WLAN2.4GHz and Bluetooth share the same antenna, so Bluetooth RF exposure evaluation chose the worst positon of WLAN 2.4GHz Ant to perform Bluetooth SAR test, and used this Bluetooth SAR value conservatively represent other position do co-located analysis with WWAN.

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14.1 Head SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Sample	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM 850	GPRS 3 Tx slot	Right Cheek	1	189	836.4	29.22	30.50	1.343	0.01	0.183	0.246
	GSM 850	GPRS 3 Tx slot	Right Tilted	1	189	836.4	29.22	30.50	1.343	0.05	0.126	0.169
01	GSM 850	GPRS 3 Tx slot	Left Cheek	1	189	836.4	29.22	30.50	1.343	-0.12	0.222	<mark>0.298</mark>
	GSM 850	GPRS 3 Tx slot	Left Tilted	1	189	836.4	29.22	30.50	1.343	0.12	0.139	0.187
	GSM 1900	GPRS 2 Tx slot	Right Cheek	1	661	1880	27.54	28.50	1.247	0.07	0.089	0.111
	GSM 1900	GPRS 2 Tx slot	Right Tilted	1	661	1880	27.54	28.50	1.247	0.05	0.071	0.089
02	GSM 1900	GPRS 2 Tx slot	Left Cheek	1	661	1880	27.54	28.50	1.247	0.08	0.098	0.122
	GSM 1900	GPRS 2 Tx slot	Left Tilted	1	661	1880	27.54	28.50	1.247	0.12	0.078	0.097

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Sample	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Right Cheek	1	9400	1880	23.73	24.00	1.064	0.08	0.181	0.193
	WCDMA II	RMC 12.2Kbps	Right Tilted	1	9400	1880	23.73	24.00	1.064	0.05	0.140	0.149
03	WCDMA II	RMC 12.2Kbps	Left Cheek	1	9400	1880	23.73	24.00	1.064	-0.05	0.192	<mark>0.204</mark>
	WCDMA II	RMC 12.2Kbps	Left Tilted	1	9400	1880	23.73	24.00	1.064	0.01	0.159	0.169
04	WCDMA IV	RMC 12.2Kbps	Right Cheek	1	1413	1732.6	23.69	24.00	1.074	-0.07	0.184	<mark>0.198</mark>
	WCDMA IV	RMC 12.2Kbps	Right Tilted	1	1413	1732.6	23.69	24.00	1.074	0.06	0.124	0.133
	WCDMA IV	RMC 12.2Kbps	Left Cheek	1	1413	1732.6	23.69	24.00	1.074	0.02	0.172	0.185
	WCDMA IV	RMC 12.2Kbps	Left Tilted	1	1413	1732.6	23.69	24.00	1.074	0.01	0.133	0.143
05	WCDMA V	RMC 12.2Kbps	Right Cheek	1	4182	836.4	23.58	24.00	1.102	0.07	0.199	<mark>0.219</mark>
	WCDMA V	RMC 12.2Kbps	Right Tilted	1	4182	836.4	23.58	24.00	1.102	0.12	0.135	0.149
	WCDMA V	RMC 12.2Kbps	Left Cheek	1	4182	836.4	23.58	24.00	1.102	0.02	0.140	0.154
	WCDMA V	RMC 12.2Kbps	Left Tilted	1	4182	836.4	23.58	24.00	1.102	0.14	0.139	0.153

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<FDD LTE SAR>

Plot	Band	BW	Modulation	RB	RB	Test	Sample	Ch.	Freq.	Average Power	Tune-Up Limit	Tune-up Scaling	Power Drift	Measured 1g SAR	Reported 1g SAR
No.	Bana	(MHz)	Moddiation	Size	offset	Position	Campio	0	(MHz)	(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
	LTE Band 2	20M	QPSK	1	0	Right Cheek	1	18900	1880	23.85	24.00	1.035	0.06	0.183	0.189
	LTE Band 2	20M	QPSK	50	0	Right Cheek	1	18900	1880	22.96	23.00	1.009	0.07	0.157	0.158
	LTE Band 2	20M	QPSK	1	0	Right Tilted	1	18900	1880	23.85	24.00	1.035	0.04	0.142	0.147
	LTE Band 2	20M	QPSK	50	0	Right Tilted	1	18900	1880	22.96	23.00	1.009	0.12	0.088	0.089
06	LTE Band 2	20M	QPSK	1	0	Left Cheek	1	18900	1880	23.85	24.00	1.035	0.08	0.187	<mark>0.194</mark>
	LTE Band 2	20M	QPSK	50	0	Left Cheek	1	18900	1880	22.96	23.00	1.009	0.05	0.118	0.119
	LTE Band 2	20M	QPSK	1	0	Left Tilted	1	18900	1880	23.85	24.00	1.035	0.07	0.161	0.167
	LTE Band 2	20M	QPSK	50	0	Left Tilted	1	18900	1880	22.96	23.00	1.009	0.11	0.132	0.133
	LTE Band 5	10M	QPSK	1	0	Right Cheek	1	20525	836.5	23.79	24.00	1.050	0.11	0.168	0.176
	LTE Band 5	10M	QPSK	25	0	Right Cheek	1	20525	836.5	22.72	23.00	1.067	0.03	0.146	0.156
	LTE Band 5	10M	QPSK	1	0	Right Tilted	1	20525	836.5	23.79	24.00	1.050	0.02	0.123	0.129
	LTE Band 5	10M	QPSK	25	0	Right Tilted	1	20525	836.5	22.72	23.00	1.067	-0.04	0.071	0.076
07	LTE Band 5	10M	QPSK	1	0	Left Cheek	1	20525	836.5	23.79	24.00	1.050	0.08	0.206	<mark>0.216</mark>
	LTE Band 5	10M	QPSK	25	0	Left Cheek	1	20525	836.5	22.72	23.00	1.067	0.09	0.150	0.160
	LTE Band 5	10M	QPSK	1	0	Left Tilted	1	20525	836.5	23.79	24.00	1.050	-0.13	0.098	0.103
	LTE Band 5	10M	QPSK	25	0	Left Tilted	1	20525	836.5	22.72	23.00	1.067	0.02	0.077	0.082
80	LTE Band 7	20M	QPSK	1	0	Right Cheek	1	21100	2535	23.15	24.00	1.216	0.07	0.122	<mark>0.148</mark>
	LTE Band 7	20M	QPSK	50	0	Right Cheek	1	21100	2535	22.39	23.00	1.151	0.03	0.090	0.104
	LTE Band 7	20M	QPSK	1	0	Right Tilted	1	21100	2535	23.15	24.00	1.216	0.05	0.032	0.039
	LTE Band 7	20M	QPSK	50	0	Right Tilted	1	21100	2535	22.39	23.00	1.151	0.06	0.033	0.038
	LTE Band 7	20M	QPSK	1	0	Left Cheek	1	21100	2535	23.15	24.00	1.216	-0.03	0.062	0.075
	LTE Band 7	20M	QPSK	50	0	Left Cheek	1	21100	2535	22.39	23.00	1.151	0.07	0.068	0.078
	LTE Band 7	20M	QPSK	1	0	Left Tilted	1	21100	2535	23.15	24.00	1.216	0.03	0.052	0.063
	LTE Band 7	20M	QPSK	50	0	Left Tilted	1	21100	2535	22.39	23.00	1.151	0.14	0.048	0.055
09	LTE Band 66	20M	QPSK	1	0	Right Cheek	1	132322	1745	23.38	24.00	1.153	0.05	0.157	<mark>0.181</mark>
	LTE Band 66	20M	QPSK	50	0	Right Cheek	1	132322	1745	22.28	23.00	1.180	0.05	0.103	0.122
	LTE Band 66	20M	QPSK	1	0	Right Tilted	1	132322	1745	23.38	24.00	1.153	0.02	0.105	0.121
	LTE Band 66	20M	QPSK	50	0	Right Tilted	1	132322	1745	22.28	23.00	1.180	0.04	0.070	0.083
	LTE Band 66	20M	QPSK	1	0	Left Cheek	1	132322	1745	23.38	24.00	1.153	0.06	0.143	0.165
	LTE Band 66	20M	QPSK	50	0	Left Cheek	1	132322	1745	22.28	23.00	1.180	0.03	0.082	0.097
	LTE Band 66	20M	QPSK	1	0	Left Tilted	1	132322	1745	23.38	24.00	1.153	0.05	0.144	0.166
	LTE Band 66	20M	QPSK	50	0	Left Tilted	1	132322	1745	22.28	23.00	1.180	0.02	0.073	0.086

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<WLAN2.4G SAR>

Plot No.	Band	Mode	Test Position	Sample	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	1	1	2412	18.46	19.00	1.132	100	1.000	0.02	0.173	0.196
	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	1	1	2412	18.46	19.00	1.132	100	1.000	0.06	0.184	0.208
10	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	1	1	2412	18.46	19.00	1.132	100	1.000	0.06	0.302	0.342
	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	1	1	2412	18.46	19.00	1.132	100	1.000	0.01	0.286	0.324
	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	2	1	2412	18.46	19.00	1.132	100	1.000	-0.18	0.292	0.331

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Plot No.	Band	Mode	Test Position	Sample	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	(dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
11	Bluetooth	1Mbps	Left Cheek	1	0	2402	10.64	11.00	1.087	77.29	1.294	0.06	0.124	<mark>0.174</mark>

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14.2 Hotspot SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM 850	GPRS 3 Tx slot	Front	5mm	1	189	836.4	29.22	30.50	1.343	0.04	0.401	0.538
	GSM 850	GPRS 3 Tx slot	Back	5mm	1	189	836.4	29.22	30.50	1.343	-0.04	0.708	0.951
	GSM 850	GPRS 3 Tx slot	Back	5mm	1	128	824.2	29.19	30.50	1.352	-0.05	0.598	0.809
12	GSM 850	GPRS 3 Tx slot	Back	5mm	1	251	848.8	29.21	30.50	1.346	0.01	0.777	1.046
	GSM 850	GPRS 3 Tx slot	Right Side	5mm	1	189	836.4	29.22	30.50	1.343	-0.08	0.291	0.391
	GSM 850	GPRS 3 Tx slot	Left Side	5mm	1	189	836.4	29.22	30.50	1.343	0.04	0.255	0.342
	GSM 850	GPRS 3 Tx slot	Bottom Side	5mm	1	189	836.4	29.22	30.50	1.343	0.09	0.204	0.274
	GSM 850	GPRS 3 Tx slot	Back	5mm	2	251	848.8	29.21	30.50	1.346	0.08	0.718	0.966
	GSM 1900	GPRS 2 Tx slot	Front	5mm	1	661	1880	27.54	28.50	1.247	0.03	0.578	0.721
13	GSM 1900	GPRS 2 Tx slot	Back	5mm	1	661	1880	27.54	28.50	1.247	-0.02	1.020	1.272
	GSM 1900	GPRS 2 Tx slot	Back	5mm	1	512	1850.2	27.21	28.50	1.346	0.06	0.920	1.238
	GSM 1900	GPRS 2 Tx slot	Back	5mm	1	810	1909.8	27.53	28.50	1.250	0.04	0.965	1.206
	GSM 1900	GPRS 2 Tx slot	Right Side	5mm	1	661	1880	25.68	26.50	1.208	0.05	0.122	0.147
	GSM 1900	GPRS 2 Tx slot	Left Side	5mm	1	661	1880	25.68	26.50	1.208	0.06	0.022	0.027
	GSM 1900	GPRS 2 Tx slot	Bottom Side	5mm	1	661	1880	25.68	26.50	1.208	-0.03	0.850	1.027
	GSM 1900	GPRS 2 Tx slot	Bottom Side	5mm	1	512	1850.2	25.62	26.50	1.225	0.03	0.868	1.063
	GSM 1900	GPRS 2 Tx slot	Bottom Side	5mm	1	810	1909.8	25.51	26.50	1.256	0.04	0.689	0.865

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<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	5mm	1	9400	1880	22.52	23.00	1.117	0.16	0.785	0.877
	WCDMA II	RMC 12.2Kbps	Front	5mm	1	9262	1852.4	22.44	23.00	1.138	0.13	0.761	0.866
	WCDMA II	RMC 12.2Kbps	Front	5mm	1	9538	1907.6	22.48	23.00	1.127	0.08	0.742	0.836
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	9400	1880	22.52	23.00	1.117	0.03	1.080	1.206
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	9262	1852.4	22.44	23.00	1.138	0.17	1.120	1.274
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	9538	1907.6	22.48	23.00	1.127	0.01	1.160	1.308
	WCDMA II	RMC 12.2Kbps	Right Side	5mm	1	9400	1880	19.54	20.00	1.112	0.03	0.151	0.168
	WCDMA II	RMC 12.2Kbps	Left Side	5mm	1	9400	1880	19.54	20.00	1.112	-0.08	0.134	0.149
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	1	9400	1880	19.54	20.00	1.112	0.04	1.070	1.190
	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	1	9262	1852.4	19.52	20.00	1.117	0.12	1.120	1.251
14	WCDMA II	RMC 12.2Kbps	Bottom Side	5mm	1	9538	1907.6	19.48	20.00	1.127	0.15	1.170	<mark>1.319</mark>
	WCDMA IV	RMC 12.2Kbps	Front	5mm	1	1413	1732.6	17.17	17.50	1.079	0.13	0.411	0.443
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	1413	1732.6	17.17	17.50	1.079	0.09	0.857	0.925
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	1312	1712.4	16.95	17.50	1.135	0.03	0.966	1.096
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	1513	1752.6	17.07	17.50	1.104	0.09	0.691	0.763
	WCDMA IV	RMC 12.2Kbps	Right Side	5mm	1	1413	1732.6	16.75	17.00	1.059	0.03	0.034	0.036
	WCDMA IV	RMC 12.2Kbps	Left Side	5mm	1	1413	1732.6	16.75	17.00	1.059	0.04	0.084	0.089
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	1	1413	1732.6	16.75	17.00	1.059	0.09	1.080	1.144
15	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	1	1312	1712.4	16.69	17.00	1.074	0.08	1.170	1.257
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	1	1513	1752.6	16.73	17.00	1.064	0.01	0.970	1.032
	WCDMA IV	RMC 12.2Kbps	Bottom Side	5mm	2	1312	1712.4	16.69	17.00	1.074	0.07	1.120	1.203
	WCDMA V	RMC 12.2Kbps	Front	5mm	1	4182	836.4	23.58	24.00	1.102	0.02	0.365	0.402
16	WCDMA V	RMC 12.2Kbps	Back	5mm	1	4182	836.4	23.58	24.00	1.102	-0.03	0.616	<mark>0.679</mark>
	WCDMA V	RMC 12.2Kbps	Right Side	5mm	1	4182	836.4	23.58	24.00	1.102	0.01	0.266	0.293
	WCDMA V	RMC 12.2Kbps	Left Side	5mm	1	4182	836.4	23.58	24.00	1.102	0.05	0.215	0.237
	WCDMA V	RMC 12.2Kbps	Bottom Side	5mm	1	4182	836.4	23.58	24.00	1.102	0.07	0.201	0.221

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<FDD LTE SAR>

	DD LIE SA															
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Front	5mm	1	18900	1880	23.85	24.00	1.035	0.12	0.956	0.990
	LTE Band 2	20M	QPSK	1	0	Front	5mm	1	18700	1860	23.67	24.00	1.079	0.04	0.801	0.864
	LTE Band 2	20M	QPSK	1	0	Front	5mm	1	19100	1900	23.75	24.00	1.059	0.09	0.902	0.955
	LTE Band 2	20M	QPSK	50	0	Front	5mm	1	18900	1880	22.96	23.00	1.009	-0.07	0.703	0.710
	LTE Band 2	20M	QPSK	100	0	Front	5mm	1	18900	1880	22.89	23.00	1.026	0.07	0.736	0.755
	LTE Band 2	20M	QPSK	1	0	Back	5mm	1	18900	1880	23.85	24.00	1.035	0.01	1.140	1.180
17	LTE Band 2	20M	QPSK	1	0	Back	5mm	1	18700	1860	23.67	24.00	1.079	-0.08	1.270	1.370
	LTE Band 2	20M	QPSK	1	0	Back	5mm	1	19100	1900	23.75	24.00	1.059	0.07	1.170	1.239
	LTE Band 2	20M	QPSK	50	0	Back	5mm	1	18900	1880	22.96	23.00	1.009	0.07	0.891	0.899
	LTE Band 2	20M	QPSK	50	0	Back	5mm	1	18700	1860	22.59	23.00	1.099	0.09	0.878	0.965
	LTE Band 2	20M	QPSK	50	0	Back	5mm	1	19100	1900	22.72	23.00	1.067	0.11	0.883	0.942
	LTE Band 2	20M	QPSK	100	0	Back	5mm	1	18900	1880	22.89	23.00	1.026	0.02	0.892	0.915
	LTE Band 2	20M	QPSK	1	0	Right Side	5mm	1	18900	1880	19.78	20.50	1.180	0.04	0.145	0.171
	LTE Band 2	20M	QPSK	1	0	Left Side	5mm	1	18900	1880	19.78	20.50	1.180	0.02	0.115	0.136
	LTE Band 2	20M	QPSK	1	0	Bottom Side	5mm	1	18900	1880	19.78	20.50	1.180	0.02	1.120	1.322
	LTE Band 2	20M	QPSK	1	0	Bottom Side	5mm	1	18700	1860	19.59	20.50	1.233	0.03	1.044	1.287
	LTE Band 2	20M	QPSK	1	0	Bottom Side	5mm	1	19100	1900	19.68	20.50	1.208	-0.05	0.997	1.204
	LTE Band 2	20M	QPSK	50	0	Bottom Side	5mm	1	18900	1880	19.14	19.50	1.086	-0.03	0.960	1.043
	LTE Band 2	20M	QPSK	50	0	Bottom Side	5mm	1	18700	1860	19.10	19.50	1.096	0.01	0.952	1.044
	LTE Band 2	20M	QPSK	50	0	Bottom Side	5mm	1	19100	1900	18.95	19.50	1.135	0.08	0.948	1.076
	LTE Band 2	20M	QPSK	100	0	Bottom Side	5mm	1	18900	1880	19.00	19.50	1.122	0.03	0.950	1.066
	LTE Band 2	20M	QPSK	1	0	Back	5mm	2	18700	1860	23.67	24.00	1.079	-0.07	1.110	1.198
	LTE Band 5	10M	QPSK	1	0	Front	5mm	1	20525	836.5	23.79	24.00	1.050	-0.08	0.382	0.401
	LTE Band 5	10M	QPSK	25	0	Front	5mm	1	20525	836.5	22.72	23.00	1.067	0.04	0.292	0.311
18	LTE Band 5	10M	QPSK	1	0	Back	5mm	1	20525	836.5	23.79	24.00	1.050	0.16	0.591	0.620
	LTE Band 5	10M	QPSK	25	0	Back	5mm	1	20525	836.5	22.72	23.00	1.067	0.05	0.538	0.574
	LTE Band 5	10M	QPSK	1	0	Right Side	5mm	1	20525	836.5	23.79	24.00	1.050	-0.16	0.289	0.303
	LTE Band 5	10M	QPSK	25	0	Right Side	5mm	1	20525	836.5	22.72	23.00	1.067	0.03	0.200	0.213
	LTE Band 5	10M	QPSK	1	0	Left Side	5mm	1	20525	836.5	23.79	24.00	1.050	0.05	0.249	0.261
	LTE Band 5	10M	QPSK	25	0	Left Side	5mm	1	20525	836.5	22.72	23.00	1.067	0.07	0.214	0.228
	LTE Band 5	10M	QPSK	1	0	Bottom Side	5mm	1	20525	836.5	23.79	24.00	1.050	0.12	0.268	0.281
	LTE Band 5	10M	QPSK	25	0	Bottom Side	5mm	1	20525	836.5	22.72	23.00	1.067	0.1	0.236	0.252

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Plot	Band	BW	Modulation	RB	RB	Test	Gap	Sample	Ch.	Freq.	Average Power	Tune-Up Limit	Tune-up Scaling	Power Drift	Measured 1g SAR	Reported 1g SAR
No.	Bana	(MHz)	Modulation	Size	offset	Position	(mm)	Campic	OII.	(MHz)	(dBm)	(dBm)	Factor	(dB)	(W/kg)	(W/kg)
	LTE Band 7	20M	QPSK	1	0	Front	5mm	1	21100	2535	19.61	20.50	1.227	0.05	0.293	0.360
	LTE Band 7	20M	QPSK	50	0	Front	5mm	1	21100	2535	19.04	19.50	1.112	-0.16	0.304	0.338
	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	21100	2535	19.61	20.50	1.227	0.04	0.957	1.175
	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	20850	2510	19.57	20.50	1.239	0.04	0.802	0.994
	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	21350	2560	19.48	20.50	1.265	0.07	0.963	1.218
	LTE Band 7	20M	QPSK	50	0	Back	5mm	1	21100	2535	19.04	19.50	1.112	0.01	0.880	0.978
	LTE Band 7	20M	QPSK	50	0	Back	5mm	1	20850	2510	18.79	19.50	1.178	-0.07	0.674	0.794
	LTE Band 7	20M	QPSK	50	0	Back	5mm	1	21350	2560	18.90	19.50	1.148	0.03	0.752	0.863
	LTE Band 7	20M	QPSK	100	0	Back	5mm	1	21100	2535	19.04	19.50	1.112	-0.05	0.728	0.809
	LTE Band 7	20M	QPSK	1	0	Right Side	5mm	1	21100	2535	19.61	20.50	1.227	0.09	0.036	0.044
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	1	21100	2535	19.61	20.50	1.227	-0.07	0.145	0.178
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	1	21100	2535	19.61	20.50	1.227	-0.03	0.893	1.096
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	1	20850	2510	19.57	20.50	1.239	0.02	0.755	0.935
19	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	1	21350	2560	19.48	20.50	1.265	0.05	1.030	1.303
	LTE Band 7	20M	QPSK	50	0	Bottom Side	5mm	1	21100	2535	19.04	19.50	1.112	-0.03	0.768	0.854
	LTE Band 7	20M	QPSK	50	0	Bottom Side	5mm	1	20850	2510	18.79	19.50	1.178	0.15	0.761	0.896
	LTE Band 7	20M	QPSK	50	0	Bottom Side	5mm	1	21350	2560	18.90	19.50	1.148	0.11	0.812	0.932
	LTE Band 7	20M	QPSK	100	0	Bottom Side	5mm	1	21100	2535	19.04	19.50	1.112	-0.05	0.785	0.873
	LTE Band 7	20M	QPSK	1	0	Back	5mm	2	21350	2560	19.48	20.50	1.265	-0.02	0.842	1.065
	LTE Band 7	20M	QPSK	1	0	Bottom Side	5mm	2	21350	2560	19.48	20.50	1.265	0.03	0.910	1.151
	LTE Band 66	20M	QPSK	1	0	Front	5mm	1	132322	1745	17.19	17.50	1.074	0.06	0.444	0.477
	LTE Band 66	20M	QPSK	50	0	Front	5mm	1	132322	1745	15.86	16.50	1.159	0.03	0.459	0.532
	LTE Band 66	20M	QPSK	1	0	Back	5mm	1	132322	1745	17.19	17.50	1.074	-0.09	0.860	0.924
20	LTE Band 66	20M	QPSK	1	0	Back	5mm	1	132072	1720	17.09	17.50	1.099	0.01	1.140	1.253
	LTE Band 66	20M	QPSK	1	0	Back	5mm	1	132572	1770	17.13	17.50	1.089	0.05	0.713	0.776
	LTE Band 66	20M	QPSK	50	0	Back	5mm	1	132322	1745	15.86	16.50	1.159	-0.01	0.947	1.097
	LTE Band 66	20M	QPSK	50	0	Back	5mm	1	132072	1720	15.71	16.50	1.199	0.01	0.858	1.029
	LTE Band 66	20M	QPSK	50	0	Back	5mm	1	132572	1770	15.62	16.50	1.225	0.06	0.607	0.743
	LTE Band 66	20M	QPSK	100	0	Back	5mm	1	132322	1745	15.59	16.50	1.233	0.09	0.839	1.035
	LTE Band 66	20M	QPSK	1	0	Right Side	5mm	1	132322	1745	17.19	17.50	1.074	-0.16	0.037	0.040
	LTE Band 66	20M	QPSK	1	0	Left Side	5mm	1	132322	1745	17.19	17.50	1.074	0.03	0.082	0.088
	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	1	132322	1745	17.19	17.50	1.074	0.05	0.905	0.972
	LTE Band 66	20M	QPSK	1	0	Bottom Side		1	132072	_	17.09	17.50	1.099	0.09	0.999	1.098
	LTE Band 66	20M	QPSK	1	0	Bottom Side	5mm	1	132572	1770	17.13	17.50	1.089	0.04	0.889	0.968
	LTE Band 66	20M	QPSK	50	0	Bottom Side	5mm	1	132322	1745	15.86	16.50	1.159	0.09	0.806	0.934
	LTE Band 66	20M	QPSK	50	0	Bottom Side	5mm	1	132072	1720	15.71	16.50	1.199	-0.07	0.788	0.945
	LTE Band 66	20M	QPSK	50	0	Bottom Side	5mm	1	132572	1770	15.62	16.50	1.225	-0.03	0.811	0.993
	LTE Band 66	20M	QPSK	100	0	Bottom Side	5mm	1	132322	1745	15.59	16.50	1.233	0.06	0.781	0.963
	LTE Band 66	20M	QPSK	1	0	Back	5mm	2	132072		17.09	17.50	1.099	0.05	0.967	1.063
	LTE Band 66	20M	QPSK	1	0	Back	5mm	2	132072	1720	17.09	17.50	1.099	0.05	0.967	1.0

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<WLAN2.4G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor		Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	1	1	2412	18.46	19	1.132	100	1.000	0.18	0.218	0.247
21	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	1	1	2412	18.46	19	1.132	100	1.000	0.03	0.460	<mark>0.521</mark>
	WLAN2.4GHz	802.11b 1Mbps	Left Side	5mm	1	1	2412	18.46	19	1.132	100	1.000	0.08	0.020	0.023
	WLAN2.4GHz	802.11b 1Mbps	Right Side	5mm	1	1	2412	18.46	19	1.132	100	1.000	0.01	0.199	0.225
	WLAN2.4GHz	802.11b 1Mbps	Top Side	5mm	1	1	2412	18.46	19	1.132	100	1.000	0.09	0.321	0.364
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	2	1	2412	18.46	19	1.132	100	1.000	-0.16	0.422	0.478

Report No.: FA0D0715

<Bluetooth SAR>

	Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
Ī	22	Bluetooth	1Mbps	Back	5mm	1	0	2402	10.64	11	1.087	77.29	1.294	0.05	0.216	0.304

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14.3 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM 850	GPRS 3 Tx slot	Front	5mm	1	-	189	836.4	29.22	30.50	1.343	0.04	0.401	0.538
	GSM 850	GPRS 3 Tx slot	Back	5mm	1	-	189	836.4	29.22	30.50	1.343	-0.04	0.708	0.951
	GSM 850	GPRS 3 Tx slot	Back	5mm	1	-	128	824.2	29.19	30.50	1.352	-0.05	0.598	0.809
23	GSM 850	GPRS 3 Tx slot	Back	5mm	1	-	251	848.8	29.21	30.50	1.346	0.01	0.777	1.046
	GSM 850	GPRS 3 Tx slot	Back	5mm	2	-	251	848.8	29.21	30.50	1.346	0.08	0.718	0.966
	GSM 1900	GPRS 2 Tx slot	Front	5mm	1	-	661	1880	27.54	28.50	1.247	0.03	0.578	0.721
24	GSM 1900	GPRS 2 Tx slot	Back	5mm	1	-	661	1880	27.54	28.50	1.247	-0.02	1.020	1.272
	GSM 1900	GPRS 2 Tx slot	Back	5mm	1	-	512	1850.2	27.21	28.50	1.346	0.06	0.920	1.238
	GSM 1900	GPRS 2 Tx slot	Back	5mm	1	-	810	1909.8	27.53	28.50	1.250	0.04	0.965	1.206
	GSM 1900	GPRS 2 Tx slot	Back	5mm	1	Headset	661	1880	27.54	28.50	1.247	0.12	0.985	1.229

Report No. : FA0D0715

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Front	5mm	1	-	9400	1880	22.52	23.00	1.117	0.16	0.785	0.877
	WCDMA II	RMC 12.2Kbps	Front	5mm	1	-	9262	1852.4	22.44	23.00	1.138	0.13	0.761	0.866
	WCDMA II	RMC 12.2Kbps	Front	5mm	1	-	9538	1907.6	22.48	23.00	1.127	0.08	0.742	0.836
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	-	9400	1880	22.52	23.00	1.117	0.03	1.080	1.206
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	-	9262	1852.4	22.44	23.00	1.138	0.17	1.120	1.274
25	WCDMA II	RMC 12.2Kbps	Back	5mm	1	-	9538	1907.6	22.48	23.00	1.127	0.01	1.160	1.308
	WCDMA II	RMC 12.2Kbps	Back	5mm	1	Headset	9538	1907.6	22.48	23.00	1.127	0.08	1.080	1.217
	WCDMA IV	RMC 12.2Kbps	Front	5mm	1	-	1413	1732.6	17.17	17.50	1.079	0.13	0.411	0.443
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	-	1413	1732.6	17.17	17.50	1.079	0.09	0.857	0.925
26	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	-	1312	1712.4	16.95	17.50	1.135	0.03	0.966	1.096
	WCDMA IV	RMC 12.2Kbps	Back	5mm	1	-	1513	1752.6	17.07	17.50	1.104	0.09	0.691	0.763
	WCDMA V	RMC 12.2Kbps	Front	5mm	1	-	4182	836.4	23.58	24.00	1.102	0.02	0.365	0.402
27	WCDMA V	RMC 12.2Kbps	Back	5mm	1	-	4182	836.4	23.58	24.00	1.102	-0.03	0.616	0.679

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<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Front	5mm	1	-	18900	1880	23.85	24.00	1.035	0.12	0.956	0.990
	LTE Band 2	20M	QPSK	1	0	Front	5mm	1	-	18700	1860	23.67	24.00	1.079	0.04	0.801	0.864
	LTE Band 2	20M	QPSK	1	0	Front	5mm	1	-	19100	1900	23.75	24.00	1.059	0.09	0.902	0.955
	LTE Band 2	20M	QPSK	50	0	Front	5mm	1	-	18900	1880	22.96	23.00	1.009	-0.07	0.703	0.710
	LTE Band 2	20M	QPSK	100	0	Front	5mm	1	-	18900	1880	22.89	23.00	1.026	0.07	0.736	0.755
	LTE Band 2	20M	QPSK	1	0	Back	5mm	1	-	18900	1880	23.85	24.00	1.035	0.01	1.140	1.180
28	LTE Band 2	20M	QPSK	1	0	Back	5mm	1	-	18700	1860	23.67	24.00	1.079	-0.08	1.270	<mark>1.370</mark>
	LTE Band 2	20M	QPSK	1	0	Back	5mm	1	-	19100	1900	23.75	24.00	1.059	0.07	1.170	1.239
	LTE Band 2	20M	QPSK	50	0	Back	5mm	1	-	18900	1880	22.96	23.00	1.009	0.07	0.891	0.899
	LTE Band 2	20M	QPSK	50	0	Back	5mm	1	-	18700	1860	22.59	23.00	1.099	0.09	0.878	0.965
	LTE Band 2	20M	QPSK	50	0	Back	5mm	1	-	19100	1900	22.72	23.00	1.067	0.11	0.883	0.942
	LTE Band 2	20M	QPSK	100	0	Back	5mm	1	-	18900	1880	22.89	23.00	1.026	0.02	0.892	0.915
	LTE Band 2	20M	QPSK	1	0	Back	5mm	1	Headset	18700	1860	23.67	24.00	1.079	0.03	1.080	1.165
	LTE Band 2	20M	QPSK	1	0	Back	5mm	2	-	18700	1860	23.67	24.00	1.079	-0.07	1.110	1.198
	LTE Band 5	10M	QPSK	1	0	Front	5mm	1	-	20525	836.5	23.79	24.00	1.050	-0.08	0.382	0.401
	LTE Band 5	10M	QPSK	25	0	Front	5mm	1	-	20525	836.5	22.72	23.00	1.067	0.04	0.292	0.311
29	LTE Band 5	10M	QPSK	1	0	Back	5mm	1	-	20525	836.5	23.79	24.00	1.050	0.16	0.591	<mark>0.620</mark>
	LTE Band 5	10M	QPSK	25	0	Back	5mm	1	-	20525	836.5	22.72	23.00	1.067	0.05	0.538	0.574

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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Headset	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 7	20M	QPSK	1	0	Front	5mm	1	-	21100	2535	19.61	20.50	1.227	0.05	0.293	0.360
	LTE Band 7	20M	QPSK	50	0	Front	5mm	1	ı	21100	2535	19.04	19.50	1.112	-0.16	0.304	0.338
	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	1	21100	2535	19.61	20.50	1.227	0.04	0.957	1.175
	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	ı	20850	2510	19.57	20.50	1.239	0.04	0.802	0.994
30	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	ı	21350	2560	19.48	20.50	1.265	0.07	0.963	<mark>1.218</mark>
	LTE Band 7	20M	QPSK	50	0	Back	5mm	1		21100	2535	19.04	19.50	1.112	0.01	0.880	0.978
	LTE Band 7	20M	QPSK	50	0	Back	5mm	1	-	20850	2510	18.79	19.50	1.178	-0.07	0.674	0.794
	LTE Band 7	20M	QPSK	50	0	Back	5mm	1	-	21350	2560	18.90	19.50	1.148	0.03	0.752	0.863
	LTE Band 7	20M	QPSK	100	0	Back	5mm	1	-	21100	2535	19.04	19.50	1.112	-0.05	0.728	0.809
	LTE Band 7	20M	QPSK	1	0	Back	5mm	1	Headset	21350	2560	19.48	20.50	1.265	-0.01	0.958	1.212
	LTE Band 7	20M	QPSK	1	0	Back	5mm	2		21350	2560	19.48	20.50	1.265	-0.02	0.842	1.065
	LTE Band 66	20M	QPSK	1	0	Front	5mm	1		132322	1745	17.19	17.50	1.074	0.06	0.444	0.477
	LTE Band 66	20M	QPSK	50	0	Front	5mm	1		132322	1745	15.86	16.50	1.159	0.03	0.459	0.532
	LTE Band 66	20M	QPSK	1	0	Back	5mm	1		132322	1745	17.19	17.50	1.074	-0.09	0.860	0.924
31	LTE Band 66	20M	QPSK	1	0	Back	5mm	1		132072	1720	17.09	17.50	1.099	0.01	1.140	1.253
	LTE Band 66	20M	QPSK	1	0	Back	5mm	1		132572	1770	17.13	17.50	1.089	0.05	0.713	0.776
	LTE Band 66	20M	QPSK	50	0	Back	5mm	1		132322	1745	15.86	16.50	1.159	-0.01	0.947	1.097
	LTE Band 66	20M	QPSK	50	0	Back	5mm	1		132072	1720	15.71	16.50	1.199	0.01	0.858	1.029
	LTE Band 66	20M	QPSK	50	0	Back	5mm	1		132572	1770	15.62	16.50	1.225	0.06	0.607	0.743
	LTE Band 66	20M	QPSK	100	0	Back	5mm	1		132322	1745	15.59	16.50	1.233	0.09	0.839	1.035
	LTE Band 66	20M	QPSK	1	0	Back	5mm	1	Headset	132072	1720	17.09	17.50	1.099	0.07	1.120	1.231
	LTE Band 66	20M	QPSK	1	0	Back	5mm	2		132072	1720	17.09	17.50	1.099	0.05	0.967	1.063

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<WLAN2.4G SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Ch.	Freq. (MHz)	Dowor	Tune-Up Limit (dBm)	Tune-up Scaling Factor		Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	1	1	2412	18.46	19	1.132	100	1.000	0.18	0.218	0.247
32	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	1	1	2412	18.46	19	1.132	100	1.000	0.03	0.460	<mark>0.521</mark>
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	2	1	2412	18.46	19	1.132	100	1.000	-0.16	0.422	0.478

Report No.: FA0D0715

<Bluetooth SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Ch.	Freq. (MHz)	Dower	Tune-Up Limit (dBm)		Duty Cycle %	Duty Cycle Scaling Factor	Drift	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
33	Bluetooth	1Mbps	Back	5mm	1	0	2402	10.64	11	1.087	77.29	1.294	0.05	0.216	<mark>0.304</mark>

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14.4 Product specific 10g SAR

<GSM SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	GSM 1900	GPRS 2 Tx slot	Back	0mm	1	661	1880	27.54	28.50	1.247	0.03	1.480	1.846
34	GSM 1900	GPRS 2 Tx slot	Bottom Side	0mm	1	661	1880	27.54	28.50	1.247	-0.05	1.590	1.983

Report No.: FA0D0715

<WCDMA SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Sample	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WCDMA II	RMC 12.2Kbps	Back	0mm	1	9400	1880	22.52	23.00	1.117	0.05	2.110	2.357
	WCDMA II	RMC 12.2Kbps	Back	0mm	1	9262	1852.4	22.44	23.00	1.138	0.01	1.940	2.207
	WCDMA II	RMC 12.2Kbps	Back	0mm	1	9538	1907.6	22.48	23.00	1.127	0.07	2.250	2.536
	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	1	9400	1880	22.52	23.00	1.117	0.06	2.520	2.814
	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	1	9262	1852.4	22.44	23.00	1.138	0.14	2.540	2.890
35	WCDMA II	RMC 12.2Kbps	Bottom Side	0mm	1	9538	1907.6	22.48	23.00	1.127	0.05	2.580	2.908
	WCDMA IV	RMC 12.2Kbps	Front	0mm	1	1413	1732.6	17.17	17.50	1.079	0.07	0.399	0.430
	WCDMA IV	RMC 12.2Kbps	Back	0mm	1	1413	1732.6	17.17	17.50	1.079	0.06	0.430	0.464
36	WCDMA IV	RMC 12.2Kbps	Bottom Side	0mm	1	1413	1732.6	17.17	17.50	1.079	0.03	0.991	1.069
	WCDMA IV	RMC 12.2Kbps	Bottom Side	0mm	2	1413	1732.6	17.17	17.50	1.079	0.09	0.926	0.999

<FDD LTE SAR>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Sample	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	LTE Band 2	20M	QPSK	1	0	Back	0mm	1	18900	1880	23.85	24.00	1.035	0.07	2.120	2.195
	LTE Band 2	20M	QPSK	1	0	Back	0mm	1	18700	1860	23.67	24.00	1.079	0.04	1.820	1.964
	LTE Band 2	20M	QPSK	1	0	Back	0mm	1	19100	1900	23.75	24.00	1.059	0.11	2.010	2.129
	LTE Band 2	20M	QPSK	50	0	Back	0mm	1	18900	1880	22.96	23.00	1.009	0.15	1.580	1.595
	LTE Band 2	20M	QPSK	100	0	Back	0mm	1	18900	1880	22.89	23.00	1.026	0.07	1.620	1.662
37	LTE Band 2	20M	QPSK	1	0	Bottom Side	0mm	1	18900	1880	23.85	24.00	1.035	-0.1	2.810	2.909
	LTE Band 2	20M	QPSK	1	0	Bottom Side	0mm	1	18700	1860	23.67	24.00	1.079	-0.03	2.400	2.589
	LTE Band 2	20M	QPSK	1	0	Bottom Side	0mm	1	19100	1900	23.75	24.00	1.059	0.01	2.480	2.627
	LTE Band 2	20M	QPSK	50	0	Bottom Side	0mm	1	18900	1880	22.96	23.00	1.009	0.08	2.040	2.059
	LTE Band 2	20M	QPSK	50	0	Bottom Side	0mm	1	18700	1860	22.59	23.00	1.099	0.03	1.910	2.099
	LTE Band 2	20M	QPSK	50	0	Bottom Side	0mm	1	19100	1900	22.72	23.00	1.067	0.03	1.950	2.080
	LTE Band 2	20M	QPSK	100	0	Bottom Side	0mm	1	18900	1880	22.89	23.00	1.026	0.01	2.030	2.082
	LTE Band 2	20M	QPSK	1	0	Bottom Side	0mm	2	18900	1880	23.85	24.00	1.035	0.04	2.430	2.515
38	LTE Band 7	20M	QPSK	1	0	Back	0mm	1	21100	2535	19.61	20.5	1.227	0.01	1.130	1.387
	LTE Band 7	20M	QPSK	50	0	Back	0mm	1	21100	2535	19.04	19.5	1.112	-0.07	1.070	1.190
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	1	21100	2535	19.61	20.5	1.227	0.03	0.723	0.887
	LTE Band 7	20M	QPSK	50	0	Bottom Side	0mm	1	21100	2535	19.04	19.5	1.112	-0.05	0.632	0.703
	LTE Band 7	20M	QPSK	1	0	Back	0mm	2	21100	2535	19.61	20.5	1.227	-0.05	1.080	1.326
	LTE Band 66	20M	QPSK	1	0	Front	0mm	1	132322	1745	17.17	17.50	1.079	0.07	0.474	0.511
	LTE Band 66	20M	QPSK	50	0	Front	0mm	1	132322	1745	15.86	16.50	1.159	0.03	0.354	0.410
	LTE Band 66	20M	QPSK	1	0	Back	0mm	1	132322	1745	17.17	17.50	1.079	-0.08	0.456	0.492
	LTE Band 66	20M	QPSK	50	0	Back	0mm	1	132322	1745	15.86	16.50	1.159	-0.04	0.346	0.401
39	LTE Band 66	20M	QPSK	1	0	Bottom Side	0mm	1	132322	1745	17.17	17.50	1.079	0.05	0.911	0.983
	LTE Band 66	20M	QPSK	50	0	Bottom Side	0mm	1	132322	1745	15.86	16.50	1.159	0.04	0.420	0.487

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14.5 Repeated SAR Measurement

<1g>

N	о.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Average Power (dBm)		Tune-up Scaling Factor		Duty Cycle Scaling Factor	Power Drift (dB)		Ratio	Reported 1g SAR (W/kg)
1	st L	TE Band 2	20M	QPSK	1	0	-	Back	5mm	18700	1860	23.67	24.00	1.079	-	1.000	-0.08	1.270	1	1.370
2	nd L	TE Band 2	20M	QPSK	1	0	-	Back	5mm	18700	1860	23.67	24.00	1.079		1.000	-0.03	1.210	1.050	1.306
1	st L	TE Band 7	20M	QPSK	1	0	=	Bottom Side	5mm	21350	2560	19.48	20.50	1.265	-	1.000	0.05	1.030	1	1.303
2	nd L	TE Band 7	20M	QPSK	1	0	-	Bottom Side	5mm	21350	2560	19.48	20.50	1.265	-	1.000	0.07	0.988	1.043	1.250
1	st ۱	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	1312	1712.4	16.69	17.00	1.074	-	1.000	0.08	1.170	1	1.257
2	nd۱	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	1312	1712.4	16.69	17.000	1.074	-	1.000	0.03	1.060	1.104	1.138

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<10g>

No	. Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Ch.	Freq.	Average Power (dBm)	Limit	Tune-up Scaling Factor		Duty Cycle Scaling Factor		Measured 10g SAR (W/kg)		Reported 10g SAR (W/kg)
1s	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	18900	1880	23.85	24.00	1.035	-	1.000	-0.1	2.810	1	2.909
2nd	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	0mm	18900	1880	23.85	24.00	1.035	-	1.000	-0.05	2.760	1.018	2.857

General Note:

- 1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
- 2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/kg, only one repeated measurement is required.
- 3. The ratio is the difference in percentage between original and repeated measured SAR.
- 4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

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15. Simultaneous Transmission Analysis

			Portab	le Handset	
No.	Simultaneous Transmission Configurations	Head	Body-worn	Hotspot	Product specific 10g SAR
1.	GSM Voice + WLAN2.4GHz	Yes	Yes		Yes
2.	GPRS/EDGE + WLAN2.4GHz	Yes	Yes	Yes	Yes
3.	WCDMA + WLAN2.4GHz	Yes	Yes	Yes	Yes
4.	LTE + WLAN2.4GHz	Yes	Yes	Yes	Yes
5.	GSM Voice + Bluetooth	Yes	Yes		Yes
6.	GPRS/EDGE + Bluetooth	Yes	Yes	Yes	Yes
7.	WCDMA + Bluetooth	Yes	Yes	Yes	Yes
8.	LTE + Bluetooth	Yes	Yes	Yes	Yes

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General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA, and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- 2. EUT will choose each GSM, WCDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- 3. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
- Chose the worst zoom scan SAR of WLAN correspondingly for co-located with WWAN analysis.
- The reported SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)2 + (y1-y2)2 + (z1-z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If SPLSR ≤ 0.04 for 1g SAR and SPLSR≤ 0.10 for 10g SAR , simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 - v) The SPLSR calculated results please refer to section 15.4.

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15.1 Head Exposure Conditions

			1	2	3		
AWW	N Band	Exposure	WWAN	2.4GHz WLAN	Bluetooth	1+2 Summed	1+3 Summed
	. Dana	Position	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
		Right Cheek	0.246	0.196	0.174	0.44	0.42
	GSM 850	Right Tilted	0.169	0.208	0.174	0.38	0.34
	OSIVI 030	Left Cheek	0.298	0.342	0.174	0.64	0.47
GSM		Left Tilted	0.187	0.324	0.174	0.51	0.36
OSIVI		Right Cheek	0.111	0.196	0.174	0.31	0.29
	GSM 1900	Right Tilted	0.089	0.208	0.174	0.30	0.26
	G3W 1900	Left Cheek	0.122	0.342	0.174	0.46	0.30
		Left Tilted	0.097	0.324	0.174	0.42	0.27
		Right Cheek	0.193	0.196	0.174	0.39	0.37
	WCDMA II	Right Tilted	0.149	0.208	0.174	0.36	0.32
	VVCDIVIA II	Left Cheek	0.204	0.342	0.174	0.55	0.38
		Left Tilted	0.169	0.324	0.174	0.49	0.34
		Right Cheek	0.198	0.196	0.174	0.39	0.37
WCDMA	WCDMA IV	Right Tilted	0.133	0.208	0.174	0.34	0.31
VVCDIVIA	VVCDIVIA IV	Left Cheek	0.185	0.342	0.174	0.53	0.36
		Left Tilted	0.143	0.324	0.174	0.47	0.32
		Right Cheek	0.219	0.196	0.174	0.42	0.39
	WCDMA V	Right Tilted	0.149	0.208	0.174	0.36	0.32
	WCDIVIA V	Left Cheek	0.154	0.342	0.174	0.50	0.33
		Left Tilted	0.153	0.324	0.174	0.48	0.33
		Right Cheek	0.189	0.196	0.174	0.39	0.36
	LTE Band 2	Right Tilted	0.147	0.208	0.174	0.36	0.32
	LIE Band 2	Left Cheek	0.194	0.342	0.174	0.54	0.37
		Left Tilted	0.167	0.324	0.174	0.49	0.34
		Right Cheek	0.176	0.196	0.174	0.37	0.35
	LTE Band 5	Right Tilted	0.129	0.208	0.174	0.34	0.30
	LTE Ballu 5	Left Cheek	0.216	0.342	0.174	0.56	0.39
LTE		Left Tilted	0.103	0.324	0.174	0.43	0.28
LIE		Right Cheek	0.148	0.196	0.174	0.34	0.32
	I TE Dand 7	Right Tilted	0.039	0.208	0.174	0.25	0.21
	LTE Band 7	Left Cheek	0.078	0.342	0.174	0.42	0.25
		Left Tilted	0.063	0.324	0.174	0.39	0.24
		Right Cheek	0.181	0.196	0.174	0.38	0.36
	LTE Decides	Right Tilted	0.121	0.208	0.174	0.33	0.30
	LTE Band 66	Left Cheek	0.165	0.342	0.174	0.51	0.34
		Left Tilted	0.166	0.324	0.174	0.49	0.34

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15.2 Hotspot Exposure Conditions

			1	2	3	1+2			1+3		
WWAN Band		Exposure Position	WWAN	2.4GHz WLAN	Bluetooth		Case No	SPLSR	Summed	Case No	SPLSR
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	(W/kg)			(W/kg)		
		Front	0.538	0.247	0.304	0.79			0.84		
		Back	1.046	0.521	0.304	1.57			1.35		
	GSM 850	Left side	0.342	0.023	0.304	0.37			0.65		
	G3W 630	Right side	0.391	0.225	0.304	0.62			0.70		
		Top side		0.364	0.304	0.36			0.30		
GSM		Bottom side	0.274			0.27			0.27		
GSIVI		Front	0.721	0.247	0.304	0.97			1.03		
		Back	1.272	0.521	0.304	1.79	#01	0.01	1.58		
	GSM 1900	Left side	0.027	0.023	0.304	0.05			0.33		
	GSW 1900	Right side	0.147	0.225	0.304	0.37			0.45		
		Top side		0.364	0.304	0.36			0.30		
		Bottom side	1.063			1.06			1.06		
		Front	0.877	0.247	0.304	1.12			1.18		
		Back	1.308	0.521	0.304	1.83	#02	0.02	1.61	#04	0.01
	MCDMAIL	Left side	0.149	0.023	0.304	0.17			0.45		
	WCDMA II	Right side	0.168	0.225	0.304	0.39			0.47		
		Top side		0.364	0.304	0.36			0.30		
		Bottom side	1.319			1.32			1.32		
		Front	0.443	0.247	0.304	0.69			0.75		
		Back	1.096	0.521	0.304	1.62	#08	0.01	1.40	1g SAR (W/kg) 0.84 1.35 0.65 0.70 0.30 0.27 1.03 1.58 0.33 0.45 0.30 1.06 1.18 1.61 #04 0.45 0.47 0.30 1.32 0.75	
MCDMA	MACDMA IV	Left side	0.089	0.023	0.304	0.11			0.39		
WCDMA	WCDMA IV	Right side	0.036	0.225	0.304	0.26			0.34		
		Top side		0.364	0.304	0.36			0.30		
		Bottom side	1.257			1.26			1.26	No S	
		Front	0.402	0.247	0.304	0.65			0.71		
		Back	0.679	0.521	0.304	1.20			0.98		
	MODMA V	Left side	0.237	0.023	0.304	0.26			0.54		
	WCDMA V	Right side	0.293	0.225	0.304	0.52			0.60		
		Top side		0.364	0.304	0.36			0.30		
		Bottom side	0.221			0.22			0.22		

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			1	2	3						
WV	VAN Band	Exposure Position	WWAN	2.4GHz WLAN	Bluetooth	1+2 Summed 1g SAR	Case No	SPLSR	1+3 Summed 1g SAR	Case No	SPLSR
		1 doilloi1	1g SAR 1g SAR 1g SAR (W/kg) (W/kg) (W/kg)		140		(W/kg)				
		Front	0.990	0.247	0.304	1.24			1.29		
		Back	1.370	0.521	0.304	1.89	#03	0.02	1.67	#05	0.01
	LTE Band 2	Left side	0.136	0.023	0.304	0.16			0.44		
	LIE Ballu Z	Right side	0.171	0.225	0.304	0.40			0.48		
		Top side		0.364	0.304	0.36			(W/kg) 1.29 1.67 0.44 0.48 0.30 1.32 0.71 0.92 0.57 0.61 0.30 0.28 0.66 1.52 0.48 0.35 0.30 1.30 0.84		
		Bottom side	1.322			1.32			1.32		
		Front	0.401	0.247	0.304	0.65			0.71		
		Back	0.620	0.521	0.304	1.14			0.92		
	LTE Band 5	Left side	0.261	0.023	0.304	0.28			0.57		
		Right side	0.303	0.225	0.304	0.53			0.61		
		Top side		0.364	0.304	0.36			0.30	.30	
LTE		Bottom side	0.281			0.28			0.28		
LIE		Front	0.360	0.247	0.304	0.61			0.66		
		Back	1.218	0.521	0.304	1.74	#06	0.01	0.71 0.92 0.57 0.61 0.30 0.28 0.66 1.52 0.48 0.35 0.30		
	LTE Band 7	Left side	0.178	0.023	0.304	0.20					
	LIE Band /	Right side	0.044	0.225	0.304	0.27			0.35		
		Top side		0.364	0.304	0.36			0.30		
		Bottom side	1.303			1.30			1.30		
		Front	0.532	0.247	0.304	0.78			0.84		
		Back	1.253	0.521	0.304	1.77	#07	0.01	1.56		
	LTE Band 66	Left side	0.088	0.023	0.304	0.11			0.39		
	LIE Danu 66	Right side	0.040	0.225	0.304	0.27			0.34		
		Top side		0.364	0.304	0.36			0.30		
		Bottom side	1.098			1.10			1.10		

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15.3 Body-Worn Accessory Exposure Conditions

			1	2	3	1+2			1.2	Case	SPLSR
WW	VAN Band	Exposure Position	WWAN	2.4GHz WLAN	Bluetooth	Summed 1g SAR	Case No	SPLSR	Summed		
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	(W/kg)			(W/kg)	140	
	GSM 850	Front	0.538	0.247	0.304	0.79			0.84		
	G3W 630	Back	1.046	0.521	0.304	1.57			1.35		
GSM		Front	0.721	0.247	0.304	0.97			(W/kg) 0.84 1.35 1.03 1.58 1.23 1.18 1.61 # 1.22 0.75 1.40 1.29		
	GSM 1900	Back	1.272	0.521	0.304	1.79	#01	0.01	1.58		
		Back with Headset	1.229			1.23			1.23		
		Front	0.877	0.247	0.304	1.12			1.18		
	WCDMA II	Back	1.308	0.521	0.304	1.83	#02	0.02	1.61	#04	0.01
WCDMA		Back with Headset	1.217			1.22			1.22		
	WCDMA IV	Front	0.443	0.247	0.304	0.69			0.75	Summed 1g SAR (W/kg) 0.84 1.35 1.03 1.58 1.23 1.18 1.61 #04 1.22 0.75 1.40 1.29 1.67 #05 1.17 0.71 0.92 0.66 1.52 1.21 0.84	
	VVCDIVIA IV	Back	1.096	0.521	0.304	1.62	#08	0.01	1.40		
		Front	0.990	0.247	0.304	1.24			1.29		
	LTE Band 2	Back	1.370	0.521	0.304	1.89	#03	0.02	1.67	#05	0.01
		Back with Headset	1.165			1.17			1.67		
	LTE Band 5	Front	0.401	0.247	0.304	0.65			0.71		
	LIE Band 5	Back	0.620	0.521	0.304	1.14			0.92		
LTE		Front	0.360	0.247	0.304	0.61			0.66		
	LTE Band 7	Back	1.218	0.521	0.304	1.74	#06	0.01	1.52		
		Back with Headset	1.212			1.21			1.21		
		Front	0.532	0.247	0.304	0.78			0.84		
	LTE Band 66	Back	1.253	0.521	0.304	1.77	#07	0.01	1.56		
		Back with Headset	1.231			1.23			1.23		

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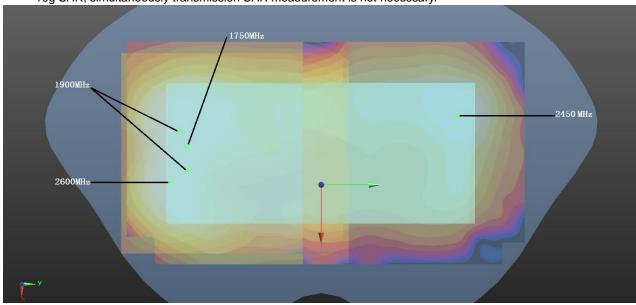
15.4 SPLSR Evaluation and Analysis

General Note:

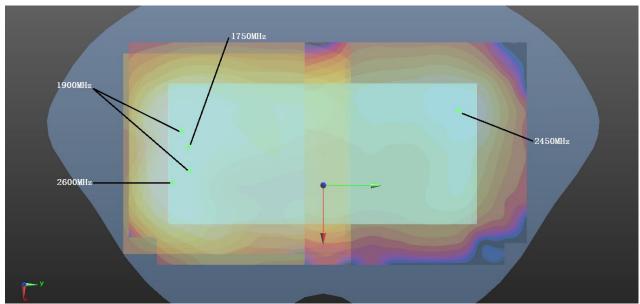
When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of [(x1-x2)2 + (y1-y2)2 + (z1-z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.

2. SPLSR = (SAR1 + SAR2)1.5 / (min. separation distance, mm). If SPLSR ≤ 0.04 for 1g SAR and SPLSR ≤ 0.10 for 10g SAR, simultaneously transmission SAR measurement is not necessary.

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Back for WWAN+WLAN2.4GHz_5mm



Back for WWAN+ Bluetooth _5mm

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	Band		SAR	Gap	SAR pe	ak locatio	on (mm)	3D	Summed	SPLSR Results	Simultaneous	
	Band	Position	(W/kg)	(mm)	Х	Y	Z	distance (mm)	SAR (W/kg)		SAR	
Case 01	GSM 1900 Cube 0	Dools	1.272	5mm	-15.3	-86.5	-0.52	164.6	4.70	0.01	Not required	
Plot No	WLAN2.4GHz	Back	0.521	5mm	-20.4	78	-0.62	104.0	1.79		Not required	
	GSM 1900 Cube 1	Back	1.272	5mm	-13.5	-86.8	-0.5	164.9	1.79	0.01	Not required	
	WLAN2.4GHz	Dack	0.521	5mm	-20.4	78	-0.62	104.9	1.79	0.01	Not required	
Case 02	Band	Position	SAR	Gap	SAR pe	ak locatio	on (mm)	3D distance	Summed	SPLSR	Simultaneous	
	Band	1 OSITION	(W/kg)	(mm)	Х	Y	Z	(mm)	SAR (W/kg)	Results	SAR	
	WCDMA II Cube 0	Back	1.308	5mm	-18.4	-86.9	-0.49	164.9	1.83	0.01	Not required	
Plot No	WLAN2.4GHz		0.521	5mm	-20.4	78	-0.62					
	WCDMA II Cube 1	Back	1.308	5mm	12.9	-78.4	-0.48	159.9	1.83	0.02	Not required	
	WLAN2.4GHz	Zaen	0.521	5mm	-20.4	78	-0.62			0.02	. tot roquirou	
	Band	Position	SAR	Gap	SAR pe	ak locatio	on (mm)	3D distance	Summed	SPLSR	Simultaneous	
Case 03 Plot No			(W/kg)	(mm)	Х	Y	Z	(mm)	SAR (W/kg)	Results	SAR	
	LTE Band 2 Cube 0	Back	1.370	5mm	-13.6	-79.7	-3.58	157.9	1.89	0.02	Not required	
	WLAN2.4GHz		0.521	5mm	-20.4	78	-0.62					
	LTE Band 2 Cube 1	Back	1.370	5mm	-7	-78.4	-3.56	157.0	1.89	0.02	Not required	
	WLAN2.4GHz	Position	0.521	5mm	-20.4	78	-0.62				,	
	Band	Position	SAR	Gap			·	3D distance	Summed SAR (W/kg)	SPLSR	Simultaneous	
			(W/kg)	(mm)	Х	Y	Z	(mm)	onit (Wikg)	Results	SAR	
Case 04 Plot No	WCDMA II Cube 0	Back	1.308	5mm	-18.4	-86.9	-0.49	165.5	1.61	0.01	Not required	
FIOLINO	Bluetooth		0.304	5mm	-21	78.6	-0.78					
	WCDMA II Cube 1	Back	1.308	5mm	12.9	-78.4	-0.48	160.6	1.61	0.01	Not required	
	Bluetooth		0.304	5mm	-21	78.6	-0.78	3D				
	Band	Position	SAR (W/kg)	Gap		ak locatio		distance	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
	LTE Daniel O Outra O		·	(mm)	X	Y 70.7	Z	(mm)		rtesuits	- OAII	
Case 05 Plot No	LTE Band 2 Cube 0	Back	1.370	5mm	-13.6	-79.7	-3.58	158.5	1.67	0.01	Not required	
	Bluetooth		0.304	5mm	-21	78.6 -78.4	-0.78					
	LTE Band 2 Cube 1 Bluetooth	Back	1.370 0.304	5mm 5mm	-7 -21	78.6	-3.56 -0.78	157.6	1.67	0.01	Not required	
	Bidetootii			Gap		ak locatio		3D				
	Band	Position	SAR (W/kg)	(mm)	X	Y	Z	distance	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 06 Plot No	LTE Band 7		1.218	5mm	11.6	-80.6	-2.06	(mm)	(9/			
	WLAN2.4GHz	Back	0.521	5mm	-20.4	78	-0.62	161.8	1.74	0.01	Not required	
	VI LI (142.40) 12			Gap			l	3D		CDI-OD	Circult.	
C 07	Band	Position	SAR (W/kg)	(mm)	X	Y	Z	distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 07 Plot No	LTE Band 66		1.253	5mm	-8.9	-83.8	-0.68	(IIIII)		0.01		
	WLAN2.4GHz	Back	0.521	5mm	-20.4	78	-0.62	162.2	1.77		Not required	
	VV L/ (1 VZ. TO) 12		0.021	Onlin	20.7	, 0	0.02					

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	Band	Position	SAR (W/kg)	Gap	SAR pea	k locati	ion (mm)	3D distance	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR	
Case 08				(mm)	Х	Υ	Z	(mm)			SAR	
Plot No	WCDMA IV	Back	1.096	5mm	-6.8	-81	-3.55	159.6	1.62	0.01	Not required	
	WLAN2.4GHz		0.521	5mm	-20.4	78	-0.62					

Test Engineer: Nick Hu, John Liu, Hank Chang, Yuankai Kong

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16. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be \leq 30%, for a confidence interval of k = 2. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

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17. References

FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"

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- ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human [2] Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average [3] Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- SPEAG DASY System Handbook [4]
- FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation [6] Considerations" Oct 2015.
- FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and [7] Equipment Authorization Policies", Oct 2015
- FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct [8] 2015.
- FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015. [9]
- [10] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [11] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [12] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.

----THE END-----

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Appendix A. Plots of System Performance Check

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The plots are shown as follows.

Sporton International (Kunshan) Inc.

System Check Head 835MHz

DUT: D835V2 - SN:4d151

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

Medium: HSL_850 Medium parameters used: f = 835 MHz; σ = 0.912 S/m; ϵ_r = 41.635; ρ = 1000

 kg/m^3

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(9.18, 9.18, 9.18); Calibrated: 2020.9.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2020.8.25
- Phantom: SAM1; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

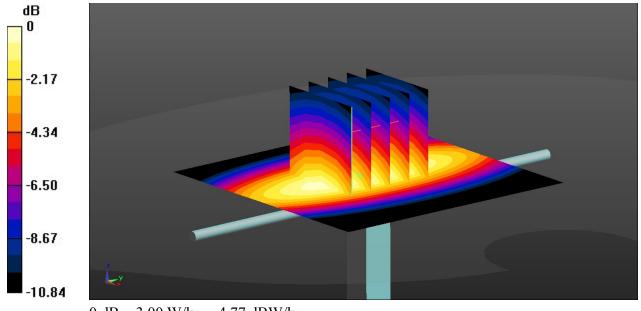
Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 3.01 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 52.32 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.56 W/kg

SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.53 W/kg

Maximum value of SAR (measured) = 3.00 W/kg



0 dB = 3.00 W/kg = 4.77 dBW/kg

System Check Head 1750MHz

DUT: D1750V2 - SN:1090

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL_1750 Medium parameters used: f = 1750 MHz; σ = 1.368 S/m; ϵ_r = 39.457; ρ = 1000

 kg/m^3

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

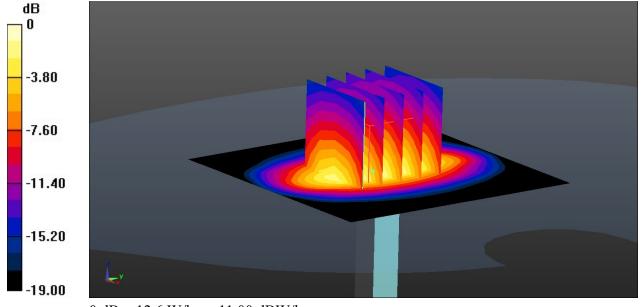
- Probe: EX3DV4 SN3857; ConvF(8.06, 8.06, 8.06); Calibrated: 2020.9.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2020.8.25
- Phantom: SAM1; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 12.7 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 85.02 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 15.7 W/kg

SAR(1 g) = 8.98 W/kg; SAR(10 g) = 4.88 W/kgMaximum value of SAR (measured) = 12.6 W/kg



0 dB = 12.6 W/kg = 11.00 dBW/kg

System Check Head 1900MHz

DUT: D1900V2 - SN:5d170

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1 Medium: HSL_1900 Medium parameters used: f = 1900 MHz; $\sigma = 1.43$ S/m; $\epsilon_r = 40.386$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

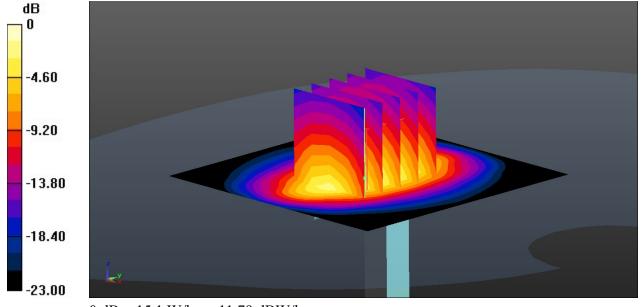
DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(7.81, 7.81, 7.81); Calibrated: 2020.9.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2020.8.25
- Phantom: SAM1; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 14.9 W/kg

Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 104.7 V/m; Power Drift = -0.16 dB Peak SAR (extrapolated) = 18.0 W/kg

SAR(1 g) = 9.66 W/kg; SAR(10 g) = 5.03 W/kgMaximum value of SAR (measured) = 15.1 W/kg



0 dB = 15.1 W/kg = 11.79 dBW/kg

System Check_Head_2450MHz

DUT: D2450V2 - SN:908

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL_2450 Medium parameters used: f = 2450 MHz; $\sigma = 1.841$ S/m; $\varepsilon_r = 38.237$; $\rho = 1000$

Date: 2021.1.4

 kg/m^3

Ambient Temperature: 23.4 °C; Liquid Temperature: 22.6 °C

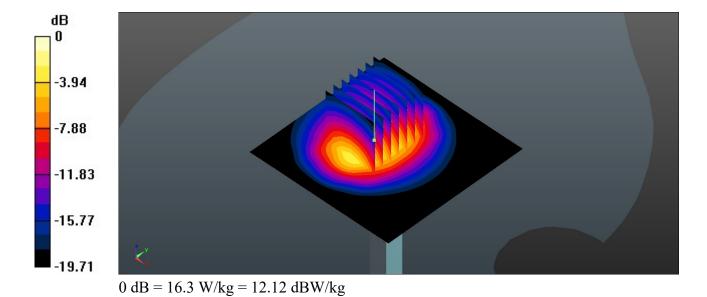
DASY5 Configuration:

- Probe: ES3DV3 SN3293; ConvF(4.51, 4.51, 4.51); Calibrated: 2020.9.23
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2020.7.7
- Phantom: SAM2; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 17.2 W/kg

Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 75.10 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 23.9 W/kg

SAR(1 g) = 12.5 W/kg; SAR(10 g) = 6.07 W/kgMaximum value of SAR (measured) = 16.3 W/kg



System Check Head 2600MHz

DUT: 2600V2 - SN:1061

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL_2600 Medium parameters used: f = 2600 MHz; $\sigma = 2.053$ S/m; $\varepsilon_r = 37.801$; $\rho = 1000$

Date: 2021.1.9

 kg/m^3

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(7.19, 7.19, 7.19); Calibrated: 2020.9.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2020.8.25
- Phantom: SAM1; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 19.5 W/kg

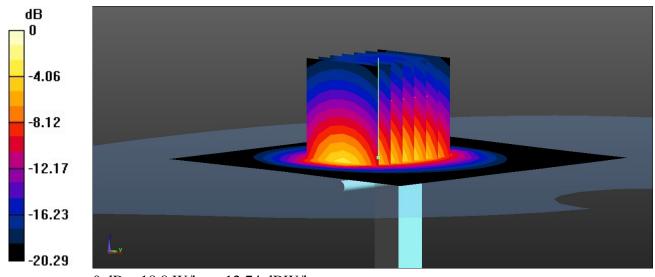
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 88.89 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 28.9 W/kg

SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.56 W/kg

Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg = 12.74 dBW/kg

Appendix B. Plots of High SAR Measurement

Report No.: FA0D0715

The plots are shown as follows.

Sporton International (Kunshan) Inc.

01_GSM 850_GPRS 3 Tx slot_Left Cheek_0mm_Ch189

Communication System: UID 0, GSM850 (0); Frequency: 836.4 MHz; Duty Cycle: 1:2.77 Medium: HSL_850 Medium parameters used: f = 836.4 MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 41.618$; $\rho = 1000_{kg/m}^3$

Date: 2020.12.24

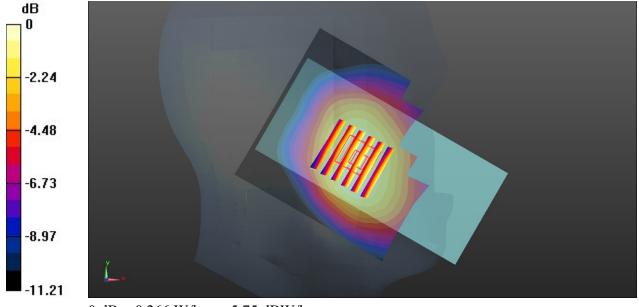
Ambient Temperature: 23.3 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(9.18, 9.18, 9.18); Calibrated: 2020.9.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2020.8.25
- Phantom: SAM1; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.253 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 5.567 V/m; Power Drift = -0.12 dB Peak SAR (extrapolated) = 0.288 W/kg SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.170 W/kg Maximum value of SAR (measured) = 0.266 W/kg



0 dB = 0.266 W/kg = -5.75 dBW/kg

02_GSM 1900_GPRS 2 Tx slot_Left Cheek_0mm_Ch661

Communication System: UID 0, PCS (0); Frequency: 1880 MHz; Duty Cycle: 1:4.15 Medium: HSL_1900 Medium parameters used: f = 1880 MHz; $\sigma = 1.412$ S/m; $\epsilon_r = 40.473$; $\rho = 1000_{kg/m}^3$

Date: 2020.12.30

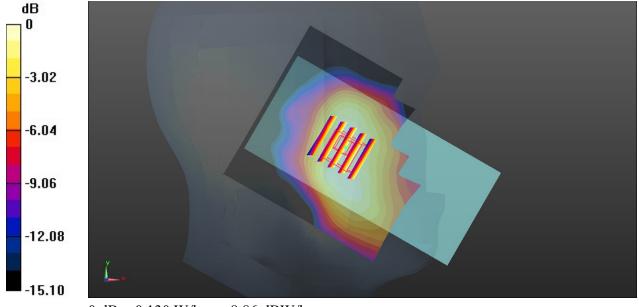
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(7.81, 7.81, 7.81); Calibrated: 2020.9.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2020.8.25
- Phantom: SAM1; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.127 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 1.522 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 0.151 W/kg SAR(1 g) = 0.098 W/kg; SAR(10 g) = 0.066 W/kg Maximum value of SAR (measured) = 0.130 W/kg



0 dB = 0.130 W/kg = -8.86 dBW/kg

03 WCDMA II RMC 12.2Kbps Left Cheek 0mm Ch9400

Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz; Duty Cycle: 1:1 Medium: HSL_1900 Medium parameters used: f = 1880 MHz; $\sigma = 1.412$ S/m; $\epsilon_r = 40.473$; $\rho = 1000_{kg/m}^3$

Date: 2020.12.30

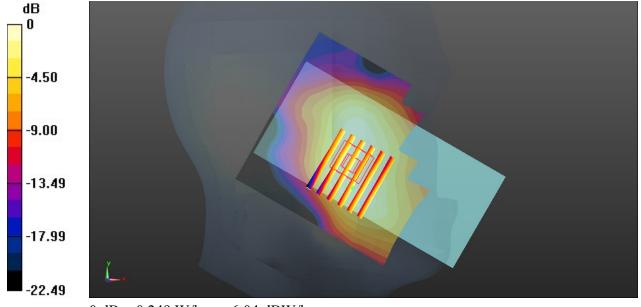
Ambient Temperature: 23.2 °C; Liquid Temperature: 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(7.81, 7.81, 7.81); Calibrated: 2020.9.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2020.8.25
- Phantom: SAM1; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.253 W/kg

Zoom Scan (7x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 4.076 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 0.286 W/kg SAR(1 g) = 0.192 W/kg; SAR(10 g) = 0.129 W/kg Maximum value of SAR (measured) = 0.249 W/kg



0 dB = 0.249 W/kg = -6.04 dBW/kg

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1 Medium: HSL_1750 Medium parameters used: f = 1732.6 MHz; $\sigma = 1.351$ S/m; $\epsilon_r = 39.531$; $\rho = 1000_{\text{kg/m}}^3$

Date: 2020.12.27

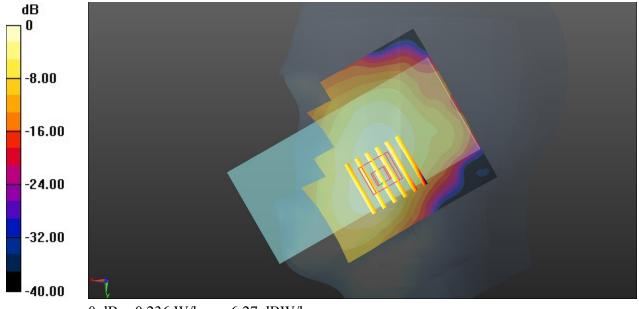
Ambient Temperature: 23.3 °C; Liquid Temperature: 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(8.06, 8.06, 8.06); Calibrated: 2020.9.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2020.8.25
- Phantom: SAM1; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.263 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 3.562 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 0.273 W/kg SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.121 W/kg Maximum value of SAR (measured) = 0.236 W/kg



0 dB = 0.236 W/kg = -6.27 dBW/kg

05_WCDMA V_RMC 12.2Kbps_Right Cheek_0mm_Ch4182

Communication System: UID 0, WCDMA (0); Frequency: 836.4 MHz; Duty Cycle: 1:1 Medium: HSL_850 Medium parameters used: f = 836.4 MHz; $\sigma = 0.913$ S/m; $\epsilon_r = 41.618$; $\rho = 1000_{kg/m}^3$

Date: 2020.12.24

Ambient Temperature: 23.3 °C; Liquid Temperature: 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 SN3857; ConvF(9.18, 9.18, 9.18); Calibrated: 2020.9.25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2020.8.25
- Phantom: SAM1; Type: SAM; Serial: TP-1503
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.235 W/kg

Zoom Scan (6x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 3.976 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.257 W/kg **SAR(1 g) = 0.199 W/kg; SAR(10 g) = 0.152 W/kg**Maximum value of SAR (measured) = 0.235 W/kg

