



FCC SAR TEST REPORT

Applicant: MAXWEST COMMUNICATION LIMITED

Address: FLAT/RM 707 7/F, FORTRESS TOWER 250 KING'S

ROAD, NORTH POINT, HONG KONG

Product Name: Phone

FCC ID: 2ASP8VICE4G

Standard(s): 47 CFR Part 2(2.1093)

Report Number: 2402Z106878E-20A

Report Date: 2024/12/31

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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SAR TEST RESULTS SUMMARY

Mod	de	Max. Reported SAR Level(s) (W/kg)	Limit (W/kg)			
1/10/	1g Head SAR	0.40	Emile (, , , ing)			
GSM 850	1g Body SAR	0.41	-			
	1g Head SAR	0.52	-			
PCS 1900	1g Body SAR	0.44	-			
	1g Head SAR	1.0	-			
WCDMA Band 2	1g Body SAR	0.58	-			
	1g Head SAR	1.07	<u>-</u>			
WCDMA Band 4	1g Body SAR	0.59				
WCD15 A D 15	1g Head SAR	0.20				
WCDMA Band 5	1g Body SAR	0.23				
LEE D. 14	1g Head SAR	1.01				
LTE Band 2	1g Body SAR	0.63	1.6			
I TE D 1 5	1g Head SAR	0.27	1.6			
LTE Band 5	1g Body SAR	0.23				
LTE Dand 7	1g Head SAR	0.77				
LTE Band 7	1g Body SAR	0.80				
LTE Band 12&17	1g Head SAR	0.60				
LIE Danu 12&1/	1g Body SAR	0.63				
LTE Band 66&4	1g Head SAR	1.20				
LTE Dand 00&4	1g Body SAR	0.82				
LTE Band 71	1g Head SAR	0.35				
ETE Danu /1	1g Body SAR	0.53				
Simultaneous	1g Head SAR	1.31	_			
Simultaneous	1g Body SAR	0.93				
	FCC 47 CFR part 2	2.1093 lation exposure evaluation: portable devices				
	IEEE1528:2013	and on possite evaluations permote activities				
	IEEE Recommended	d Practice for Determining the Peak Spatial-Averag				
	Absorption Rate (SAR) in the Human Head from Wireless Communications Devices:					
	Measurement Techniques					
	IEC 62209-2:2010 Human exposure to radio frequency fields from hand-held and body-mounted wireless					
Applicable	communication devices-Human models, instrumentation, and procedures-Part 2:					
Standards	Procedure to determine the specific absorption rate (SAR) for wireless communication					
	devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)					
	IEC 62209-2:2010/AMD1:2019 ED1					
	Amendment 1 - Human exposure to radio frequency fields from hand-held and body-					
	mounted wireless communication devices - Human models, instrumentation, and					
	procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency					
	range of 30 MHz to					

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	KDB procedures
	KDB 447498 D01 General RF Exposure Guidance v06
	KDB 648474 D04 Handset SAR v01r03
	KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
	KDB 865664 D02 RF Exposure Reporting v01r02
	KDB 941225 D01 3G SAR Procedures v03r01
	KDB 941225 D05 SAR for LTE Devices v02r05

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Note: This wireless device has been shown to be capable of compliance for localized specific absorption rate (SAR) for General Population/Uncontrolled Exposure limits specified in **FCC 47 CFR part 2.1093** and has been tested in accordance with the measurement procedures specified in IEEE 1528-2013 and RF exposure KDB procedures.

The results and statements contained in this report pertain only to the device(s) evaluated.

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DOCUMENT REVISION HISTORY

Revision Number Report Number		Description of Revision	Date of Revision	
1.0	2402Z106878E-20A	Original Report	2024/12/31	

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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Phone
EUT Model:	VICE 4G
Device Type:	Portable
Exposure Category:	Population / Uncontrolled
Antenna Type(s):	Internal Antenna
Body-Worn Accessories:	None
Proximity Sensor:	None
Carrier Aggregation:	None
Operation Modes:	GSM Voice, GPRS Data, WCDMA(R99 (Voice+Data), HSUPA/HSDPA/DC-HSDPA/HSPA+), FDD-LTE, Bluetooth
Operation Frequency:	GSM 850: 824-849 MHz(TX); 869-894 MHz(RX) PCS 1900: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 4: 1710-1755MHz(TX); 2110-2155 MHz(RX) WCDMA Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX) LTE Band 4: 1710-1755MHz(TX); 2110-2155 MHz(RX) LTE Band 5: 824-849 MHz(TX); 869-894 MHz(RX) LTE Band 7: 2500-2570 MHz(TX); 2620-2690 MHz(RX) LTE Band 12: 699-716 MHz(TX); 729-746 MHz(RX) LTE Band 17: 704-716 MHz(TX); 734-746 MHz(RX) LTE Band 66: 1710-1780 MHz(TX); 2110-2180 MHz(RX) LTE Band 71: 663-698 MHz(TX); 617-652 MHz(RX) Bluetooth: 2402-2480MHz(TX/RX)
Rated Input Voltage:	DC3.7V from Rechargeable Battery
Serial Number: 2V3H-1	
Normal Operation:	Head and Body Worn
EUT Received Date:	2024/11/27
Test Date:	2024/12/09-2024/12/14
EUT Received Status:	Good

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2. REFERENCE, STANDARDS, AND GUIDELINES

FCC:

The Report and Order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g as recommended by the ANSI/IEEE standard C95.1-1992 [6] for an uncontrolled environment (Paragraph 65). According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

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This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in North America is 1.6 mW/g average over 1 gram of tissue mass.

2.1 SAR Limits

FCC Limit

	SAR (W/kg)				
EXPOSURE LIMITS	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)			
Spatial Average (averaged over the whole body)	0.08	0.4			
Spatial Peak (averaged over any 1 g of tissue)	1.60	8.0			
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0			

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

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

General Population/Uncontrolled environments Spatial Peak limit 1.6W/kg (FCC) applied to the EUT.

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2.2 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

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The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 829273, the FCC Designation No. : CN5044.

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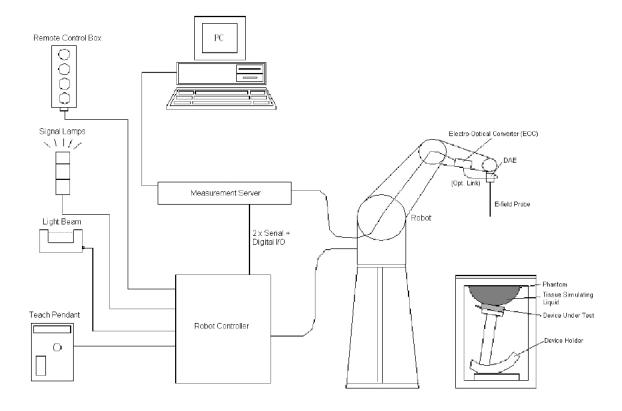
3. DESCRIPTION OF TEST SYSTEM

These measurements were performed with the automated near-field scanning system DASY5 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:



DASY5 System Description

The DASY5 system for performing compliance tests consists of the following items:



- 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 application, 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 Win7 professional operating system and the DASY52 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

DASY5 Measurement Server

The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz Intel ULV Celeron, 128MB chip-disk and 128MB RAM. The necessary circuits for communication with the DAE4 (or DAE3) electronics box, as well as the 16 bit AD-converter system for optical detection and digital I/O interface are contained on the DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical



processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port which is reserved for future applications. Please note that this expansion port does not have a standardized point out, and therefore only devices provided by SPEAG can be connected. Devices from any other supplier could seriously damage the measurement server.

Data Acquisition Electronics

The data acquisition electronics (DAE4) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of both the DAE4 as well as of the DAE3 box is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

ES3DV3 E-Field Probes

Frequency	10 MHz - 4 GHz Linearity: ± 0.2 dB (30 MHz to 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 μ W/g to > 100 mW/g Linearity: \pm 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 3.9 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 2.0 mm
Application	General dosimetry up to 4 GHz Dosimetry in strong gradient fields Compliance tests of mobile phones
Compatibility	DASY3, DASY4, DASY52, DASY6, DASY8, EASY6, EASY4/MRI

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SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness

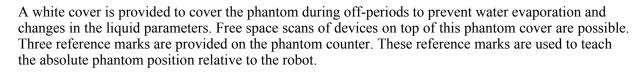
increases to 6 mm). The phantom has three measurement areas:

- Left Head
- Right Head
- Flat phantom

The phantom table for the DASY systems based on the robots have the size of $100 \times 50 \times 85 \text{ cm}$ (L x W x H). For easy dislocation these tables have fork lift cut outs at the bottom.

The bottom plate contains three pairs of bolts for locking the device holder. The device holder positions are adjusted to the

standard measurement positions in the three sections. Only one device holder is necessary if two phantoms are used (e.g., for different liquids)



Robots

The DASY5 system uses the high precision industrial robot. The robot offers the same features important for our application:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchrony motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)

The above mentioned robots are controlled by the Staubli CS7MB robot controllers. All information regarding the use and maintenance of the robot arm and the robot controller is contained on the CDs delivered along with the robot. Paper manuals are available upon request direct from Staubli.

Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 15mm 2 step integral, with 1.5mm interpolation used to locate the peak SAR area used for zoom scan assessments.

Where the system identifies multiple SAR peaks (which are within 25% of peak value) the system will provide the user with the option of assessing each peak location individually for zoom scan averaging.

Zoom Scan (Cube Scan Averaging)

The averaging zoom scan volume utilized in the DASY5 software is in the shape of a cube and the side dimension of a 1 g or 10 g mass is dependent on the density of the liquid representing the simulated tissue. A density of 1000 kg/m³ is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1g cube is 10mm,with the side length of the 1g cube is 21.5mm.



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When the cube intersects with the surface of the phantom, it is oriented so that 3 vertices touch the surface of the shell or the center of a face is tangent to the surface. The face of the cube closest to the surface is modified in order to conform to the tangent surface.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 7 x7 x 7 (5mmx5mmx5mm) providing a volume of 30 mm in the X & Y & Z axis.

Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEC 62209-1:2016

Recommended Tissue Dielectric Parameters for Head liquid

Table A.3 - Dielectric properties of the head tissue-equivalent liquid

Frequency	Relative permittivity	Conductivity (σ)		
MHz	ε_{r}	S/m		
300	45,3	0,87		
450	43,5	0,87		
750	41,9	0,89		
835	41,5	0,90		
900	41,5	0,97		
1 450	40,5	1,20		
1 500	40,4	1,23		
1 640	40,2	1,31		
1 750	40,1	1,37		
1 800	40,0	1,40		
1 900	40,0	1,40		
2 000	40,0	1,40		
2 100	39,8	1,49		
2 300	39,5	1,67		
2 450	39,2	1,80		
2 600	39,0	1,96		
3 000	38,5	2,40		
3 500	37,9	2,91		
4 000	37,4	3,43		
4 500	36,8	3,94		
5 000	36,2	4,45		
5 200	36,0	4,66		
5 400	35,8	4,86		
5 600	35,5	5,07		
5 800	35,3	5,27		
6 000	35,1	5,48		

NOTE For convenience, permittivity and conductivity values at those frequencies which are not part of the original data provided by Drossos et al. [33] or the extension to 5 800 MHz are provided (i.e. the values shown *in italics*). These values were linearly interpolated between the values in this table that are immediately above and below these values, except the values at 6 000 MHz that were linearly extrapolated from the values at 3 000 MHz and 5 800 MHz.

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4. EQUIPMENT LIST AND CALIBRATION

4.1 Equipments List & Calibration Information

Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52.10	N/A	NCR	NCR
DASY5 Measurement Server	DASY5 4.5.12	1470	NCR	NCR
Data Acquisition Electronics	DAE4	772	2024/1/23	2025/1/22
E-Field Probe	ES3DV3	3220	2024/10/15	2025/10/14
Mounting Device	MD4HHTV5	SD 000 H01 KA	NCR	NCR
Twin SAM	Twin SAM V5.0	1874	NCR	NCR
Dipole, 750 MHz	D750V3	1167	2022/10/31	2025/10/30
Dipole, 1750 MHz	D1750V2	1141	2024/6/17	2027/6/16
Dipole, 1900 MHz	D1900V2	543	2022/11/2	2025/11/1
Dipole, 2450 MHz	D2450V2	971	2024/6/15	2027/6/14
Dipole, 2600 MHz	D2600V2	1132	2022/11/1	2025/10/31
Simulated Tissue Liquid Head	HBBL600- 10000V6	SL AAH U16 BC (Batch:220809-1)	Each Time	/
Network Analyzer	8753C	3033A02857	2024/5/9	2025/5/8
Dielectric assessment kit	1253	SM DAK 040 CA	NCR	NCR
synthesized signal generator	8665B	3438a00584	2024/10/18	2025/10/17
EPM Series Power Meter	E4419B	MY45103907	2024/10/18	2025/10/17
Power Sensor	8482A	US37296108	2024/10/19	2025/10/18
Power Meter	EPM-441A	GB37481494	2024/10/19	2025/10/18
Power Amplifier	ZHL-5W-202-S+	416402204	NCR	NCR
Power Amplifier	ZVE-6W-83+	637202210	NCR	NCR
Directional Coupler	441493	520Z	NCR	NCR
Attenuator	20dB, 100W	LN749	NCR	NCR
Attenuator	6dB, 150W	2754	NCR	NCR
Thermometer	DTM3000	3635	2024/8/12	2025/8/11
Hygrothermograph	HTC-2	EM072	2024/11/4	2025/11/3
Wireless communication tester	8960	MY50266471	2024/9/5	2025/9/4
Wideband Radio Communication Tester * Statement of Tracebility: Pay Area Co	CMW500	147473	2024/9/5	2025/9/4

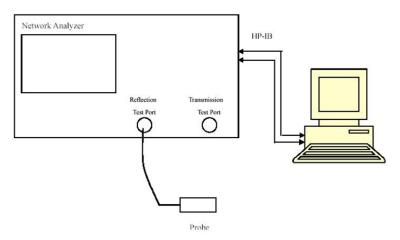
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^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

5. SAR MEASUREMENT SYSTEM VERIFICATION

5.1 Liquid Verification



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5.2 Liquid Verification Results

Frequency	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance
(MHz) Liquid Type			O		O	4.0	ΔO	(%)
		$\mathbf{\epsilon}_{\mathbf{r}}$	(S/m)	ε _r	(S/m)	$\Delta \varepsilon_{ m r}$	(S/m)	
750	Simulated Tissue Liquid Head	43.152	0.871	41.9	0.89	2.99	-2.13	±5
824.2	Simulated Tissue Liquid Head	42.869	0.898	41.54	0.9	3.2	-0.22	±5
836.6	Simulated Tissue Liquid Head	42.737	0.902	41.5	0.9	2.98	0.22	±5
848.8	Simulated Tissue Liquid Head	42.365	0.928	41.5	0.91	2.08	1.98	±5

^{*}Liquid Verification above was performed on 2024/12/09.

Frequency	Liquid Tomo	Liquid Parameter		Target Value		Delta (%)		Tolerance
(MHz)	Liquid Type	$\epsilon_{ m r}$	O' (S/m)	$\epsilon_{ m r}$	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔΟ΄ (S/m)	(%)
673	Simulated Tissue Liquid Head	43.329	0.848	42.31	0.88	2.41	-3.64	±5
680.5	Simulated Tissue Liquid Head	43.191	0.857	42.27	0.89	2.18	-3.71	±5
688	Simulated Tissue Liquid Head	42.878	0.864	42.23	0.89	1.53	-2.92	±5
704	Simulated Tissue Liquid Head	42.789	0.871	42.15	0.89	1.52	-2.13	±5
707.5	Simulated Tissue Liquid Head	42.704	0.879	42.13	0.89	1.36	-1.24	±5
711	Simulated Tissue Liquid Head	42.542	0.885	42.11	0.89	1.03	-0.56	±5
750	Simulated Tissue Liquid Head	42.371	0.892	41.9	0.89	1.12	0.22	±5

^{*}Liquid Verification above was performed on 2024/12/10.

Frequency	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance	
(MHz)	Liquid Type	$\epsilon_{ m r}$	O' (S/m)	$\epsilon_{ m r}$	O' (S/m)	$\Delta \epsilon_{r}$	ΔΟ΄ (S/m)	(%)	
750	Simulated Tissue Liquid Head	42.863	0.867	41.9	0.89	2.3	-2.58	±5	
826.4	Simulated Tissue Liquid Head	42.669	0.874	41.54	0.9	2.72	-2.89	±5	
829	Simulated Tissue Liquid Head	42.548	0.879	41.53	0.9	2.45	-2.33	±5	
836.5	Simulated Tissue Liquid Head	42.352	0.886	41.5	0.9	2.05	-1.56	±5	
836.6	Simulated Tissue Liquid Head	42.347	0.887	41.5	0.9	2.04	-1.44	±5	
844	Simulated Tissue Liquid Head	42.133	0.903	41.5	0.91	1.53	-0.77	±5	
846.6	Simulated Tissue Liquid Head	42.109	0.908	41.5	0.91	1.47	-0.22	±5	

^{*}Liquid Verification above was performed on 2024/12/11.

Frequency	I : : d T	Liq Paran		Target Value		Delta (%)		Tolerance
(MHz)	Liquid Type ε _r		O' (S/m)	ε _r	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔΟ΄ (S/m)	(%)
1712.4	Simulated Tissue Liquid Head	41.408	1.334	40.13	1.35	3.18	-1.19	±5
1720	Simulated Tissue Liquid Head	41.394	1.346	40.13	1.35	3.15	-0.3	±5
1732.6	Simulated Tissue Liquid Head	40.873	1.348	40.12	1.36	1.88	-0.88	±5
1745	Simulated Tissue Liquid Head	40.164	1.352	40.1	1.37	0.16	-1.31	±5
1750	Simulated Tissue Liquid Head	39.878	1.354	40.1	1.37	-0.55	-1.17	±5
1752.6	Simulated Tissue Liquid Head	39.754	1.387	40.09	9 1.37 -0.84 1.2		1.24	±5
1770	Simulated Tissue Liquid Head	39.278	1.408	40.06	1.38	-1.95	2.03	±5

^{*}Liquid Verification above was performed on 2024/12/12.

Frequency	Liquid Tuno	Liquid Parameter		Target Value		Delta (%)		Tolerance
(MHz)	Liquid Type	$\epsilon_{\rm r}$	O' (S/m)	ε _r	O' (S/m)	$\Delta \varepsilon_{\rm r} = \frac{\Delta O}{({\rm S/m})}$		(%)
1850.2	Simulated Tissue Liquid Head	40.565	1.368	40	1.4	1.41	-2.29	±5
1880	Simulated Tissue Liquid Head	39.671	1.394	40	1.4	-0.82	-0.43	±5
1900	Simulated Tissue Liquid Head	39.487	1.437	40	1.4	-1.28	2.64	±5
1909.8	Simulated Tissue Liquid Head	39.227	1.442	40	1.4	-1.93	3	±5

^{*}Liquid Verification above was performed on 2024/12/09.

Frequency	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance
(MHz)	Liquiu Type	$\epsilon_{ m r}$	O' (S/m)	$\epsilon_{ m r}$	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔΟ΄ (S/m)	(%)
1852.4	Simulated Tissue Liquid Head	40.516	1.384	40	1.4	1.29	-1.14	±5
1860	Simulated Tissue Liquid Head	40.178	1.413	40	1.4	0.44	0.93	±5
1880	Simulated Tissue Liquid Head	39.947	1.421	40	1.4	-0.13	1.5	±5
1900	Simulated Tissue Liquid Head	39.723	1.429	40	1.4	-0.69	2.07	±5
1907.6	Simulated Tissue Liquid Head	39.097	1.433	40	1.4	-2.26	2.36	±5

^{*}Liquid Verification above was performed on 2024/12/13.

Frequency	I :: d T	Liquid Parameter		Target Value		Delta (%)		Tolerance
(MHz)	Liquid Type ε		O' (S/m)	$\epsilon_{ m r}$	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔΟ΄ (S/m)	(%)
2450	Simulated Tissue Liquid Head	40.706	1.824	39.2	1.8	3.84	1.33	±5
2510	Simulated Tissue Liquid Head	40.473	1.833	39.12	1.86	3.46	-1.45	±5
2535	Simulated Tissue Liquid Head	40.227	1.889	39.09	1.89	2.91	-0.05	±5
2560	Simulated Tissue Liquid Head	39.761	1.911	39.05	1.92	1.82	-0.47	±5
2600	Simulated Tissue Liquid Head	39.413	1.932	39	1.96	1.06	-1.43	±5

^{*}Liquid Verification above was performed on 2024/12/14.

5.3 System Accuracy Verification

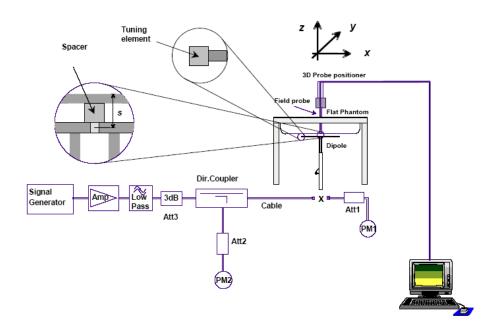
Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

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The spacing distances in the **System Verification Setup Block Diagram** is given by the following:

- a) $s = 15 \text{ mm} \pm 0.2 \text{ mm}$ for 300 MHz $\leq f \leq 1 000 \text{ MHz}$;
- b) $s = 10 \text{ mm} \pm 0.2 \text{ mm}$ for 1 000 MHz < $f \le 3$ 000 MHz;
- c) $s = 10 \text{ mm} \pm 0.2 \text{ mm}$ for $3000 \text{ MHz} < f \le 6000 \text{ MHz}$.

System Verification Setup Block Diagram



5.4 System Accuracy Check Results

Date	Frequency Band	Liquid Type	Input Power (mW)	S	asured AR V/kg)	Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)
2024/12/09	750 MHz	Simulated Tissue Liquid Head	100	1g	0.855	8.55	8.48	0.83	±10
2024/12/10	750 MHz	Simulated Tissue Liquid Head	100	1g	0.857	8.57	8.48	1.06	±10
2024/12/11	750 MHz	Simulated Tissue Liquid Head	100	1g	0.843	8.43	8.48	-0.59	±10
2024/12/12	1750 MHz	Simulated Tissue Liquid Head	100	1g	3.69	36.9	36.1	2.22	±10
2024/12/09	1900 MHz	Simulated Tissue Liquid Head	100	1g	3.79	37.9	40.2	-5.72	±10
2024/12/13	1900 MHz	Simulated Tissue Liquid Head	100	1g	3.87	38.7	40.2	-3.73	±10
2024/12/14	2450 MHz	Simulated Tissue Liquid Head	100	1g	4.99	49.9	52.7	-5.31	±10
2024/12/14	2600 MHz	Simulated Tissue Liquid Head	100	1g	5.46	54.6	55.8	-2.15	±10

^{*}The SAR values above are normalized to 1 Watt forward power.

5.5 SAR SYSTEM VALIDATION DATA

System Performance 750 MHz Head was performed on 2024/12/09

DUT: D750V3; Type: 750 MHz; Serial: 1167

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 750 MHz; $\sigma = 0.871$ S/m; $\varepsilon_r = 43.152$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe:ES3DV3 SN3220; ConvF(6.68, 6.68, 6.68) @ 750 MHz; Calibrated: 2024/10/15
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2024/1/23
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

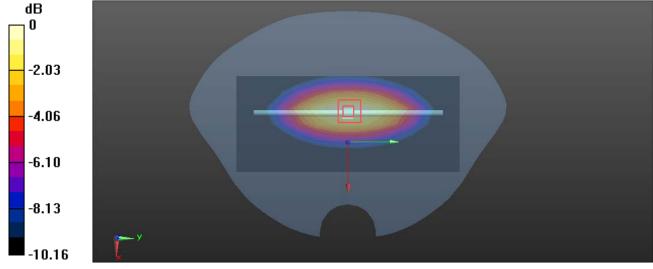
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.15 W/kg

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

Reference Value = 27.76 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.35 W/kg

SAR(1 g) = 0.855 W/kg; SAR(10 g) = 0.552 W/kgMaximum value of SAR (measured) = 1.16 W/kg



0 dB = 1.16 W/kg = 0.64 dBW/kg

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System Performance 750 MHz Head was performed on 2024/12/10

DUT: D750V3; Type: 750 MHz; Serial: 1167

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 750 MHz; $\sigma = 0.892$ S/m; $\varepsilon_r = 42.371$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 SN3220; ConvF(6.68, 6.68, 6.68) @ 750 MHz; Calibrated: 2024/10/15
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2024/1/23
- Phantom: SAM (30deg probe tilt) with CRP v5.0 20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

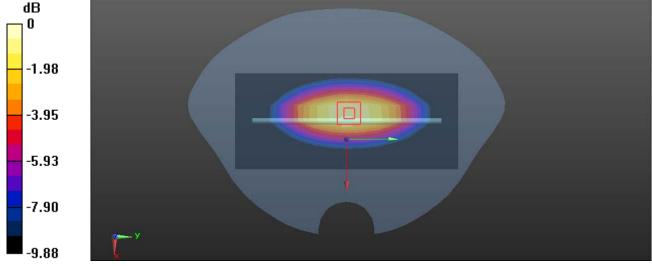
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 1.01 W/kg

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

Reference Value = 29.79 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 0.857 W/kg; SAR(10 g) = 0.557 W/kgMaximum value of SAR (measured) = 1.19 W/kg



0 dB = 1.19 W/kg = 0.76 dBW/kg

System Performance 750 MHz Head was performed on 2024/12/11

DUT: D750V3; Type: 750 MHz; Serial: 1167

Communication System: UID 0, CW (0); Frequency: 750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 750 MHz; σ = 0.867 S/m; ϵ_r = 42.863; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 SN3220; ConvF(6.68, 6.68, 6.68) @ 750 MHz; Calibrated: 2024/10/15
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2024/1/23
- Phantom: SAM (30deg probe tilt) with CRP v5.0 20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

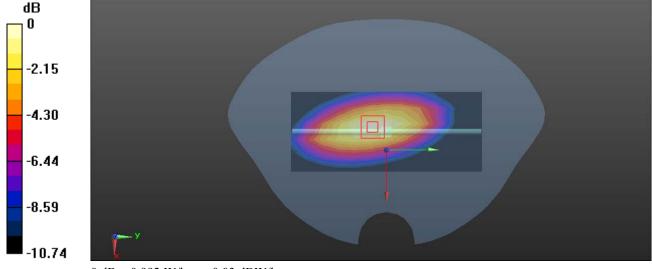
Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 0.953 W/kg

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

Reference Value = 30.86 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.843 W/kg; SAR(10 g) = 0.552 W/kgMaximum value of SAR (measured) = 0.992 W/kg



System Performance 1750MHz Head was performed on 2024/12/12

DUT:D1750V2; Type: 1750 MHz; Serial: 1141

Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1 Medium parameters used: f=1750 MHz; $\sigma=1.354$ S/m; $\epsilon_r=39.878$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 SN3220; ConvF(5.53, 5.53, 5.53) @ 1750 MHz; Calibrated: 2024/10/15
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2024/1/23
- Phantom: SAM (30deg probe tilt) with CRP v5.0 20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 4.68 W/kg

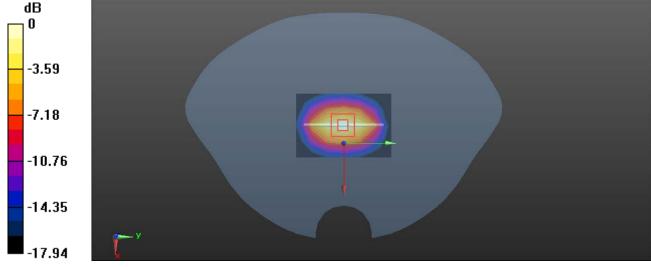
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 55.85 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 6.53 W/kg

SAR(1 g) = 3.69 W/kg; SAR(10 g) = 1.96 W/kg

Maximum value of SAR (measured) = 4.59 W/kg



0 dB = 4.59 W/kg = 6.62 dBW/kg

System Performance 1900MHz Head was performed on 2024/12/09

DUT: D1900V2; Type: 1900 MHz; Serial: 543

Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1 Medium parameters used: f=1900 MHz; $\sigma=1.437$ S/m; $\epsilon_r=39.487$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 SN3220; ConvF(5.24, 5.24, 5.24) @ 1900 MHz; Calibrated: 2024/10/15
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2024/1/23
- Phantom: SAM (30deg probe tilt) with CRP v5.0 20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

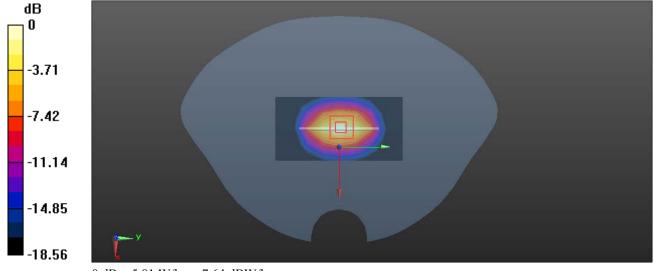
Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 5.85 W/kg

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

Reference Value = 55.13 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 7.09 W/kg

SAR(1 g) = 3.79 W/kg; SAR(10 g) = 1.98 W/kgMaximum value of SAR (measured) = 5.81 W/kg



0 dB = 5.81 W/kg = 7.64 dBW/kg

System Performance 1900MHz Head was performed on 2024/12/13

DUT: D1900V2; Type: 1900 MHz; Serial: 543

Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1 Medium parameters used: f=1900 MHz; $\sigma=1.429$ S/m; $\epsilon_r=39.723$; $\rho=1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 SN3220; ConvF(5.24, 5.24, 5.24) @ 1900 MHz; Calibrated: 2024/10/15
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2024/1/23
- Phantom: SAM (30deg probe tilt) with CRP v5.0 20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

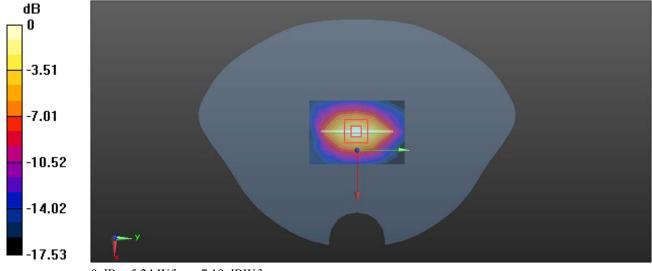
Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (measured) = 5.45 W/kg

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

Reference Value = 62.61 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 7.19 W/kg

SAR(1 g) = 3.87 W/kg; SAR(10 g) = 2.06 W/kgMaximum value of SAR (measured) = 5.24 W/kg



0 dB = 5.24 W/kg = 7.19 dBW/kg

System Performance 2450MHz Head was performed on 2024/12/14

DUT: D2450V2; Type: 2450 MHz; Serial: 971

Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; σ = 1.824 S/m; ϵ_r = 40.706; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 SN3220; ConvF(4.83, 4.83, 4.83) @ 2450 MHz; Calibrated: 2024/10/15
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2024/1/23
- Phantom: SAM (30deg probe tilt) with CRP v5.0 20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

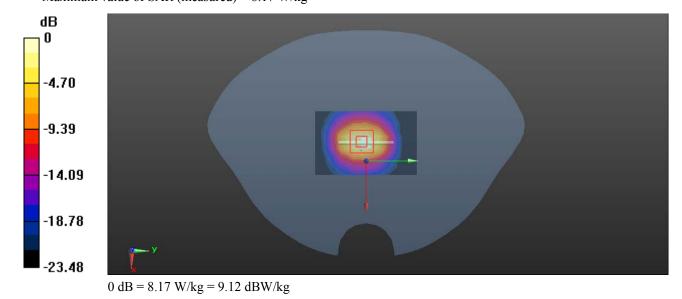
Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 7.43 W/kg

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

Reference Value = 54.26 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 10.1 W/kg

SAR(1 g) = 4.99 W/kg; SAR(10 g) = 2.31 W/kgMaximum value of SAR (measured) = 8.17 W/kg



System Performance 2600MHz Head was performed on 2024/12/14

DUT: D2600V2; Type: 2600MHz; Serial: 1132

Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2600 MHz; $\sigma = 1.932$ S/m; $\epsilon_r = 39.413$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 SN3220; ConvF(4.66, 4.66, 4.66) @ 2600 MHz; Calibrated: 2024/10/15
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn772; Calibrated: 2024/1/23
- Phantom: SAM (30deg probe tilt) with CRP v5.0_20150321; Type: QD000P40CD; Serial: TP:1874
- Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm

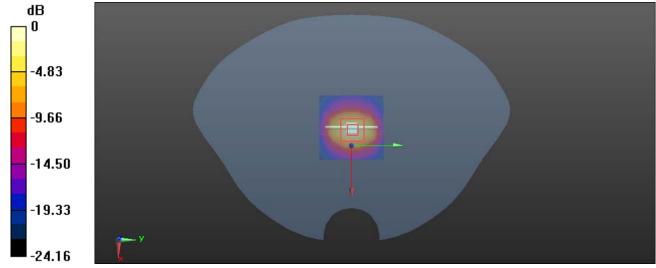
Maximum value of SAR (measured) = 9.41 W/kg

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

Reference Value = 54.71 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 5.46 W/kg; SAR(10 g) = 2.44 W/kgMaximum value of SAR (measured) = 9.58 W/kg



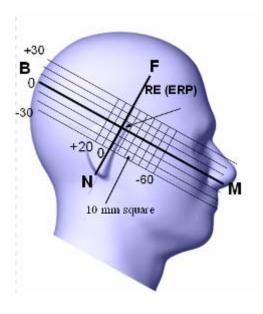
0 dB = 9.58 W/kg = 9.81 dBW/kg

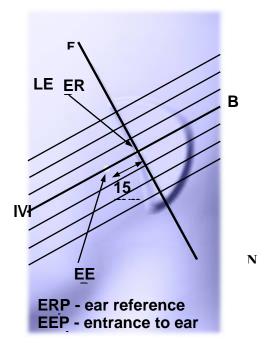
6. EUT TEST STRATEGY AND METHODOLOGY

6.1 Test Positions for Device Operating Next to a Person's Ear

This category includes most wireless handsets with fixed, retractable or internal antennas located toward the top half of the device, with or without a foldout, sliding or similar keypad cover. The handset should have its earpiece located within the upper ¼ of the device, either along the centerline or off-centered, as perceived by its users. This type of handset should be positioned in a normal operating position with the "test device reference point" located along the "vertical centerline" on the front of the device aligned to the "ear reference point". The "test device reference point" should be located at the same level as the center of the earpiece region. The "vertical centerline" should bisect the front surface of the handset at its top and bottom edges. A "ear reference point" is located on the outer surface of the head phantom on each ear spacer. It is located 1.5 cm above the center of the ear canal entrance in the "phantom reference plane" defined by the three lines joining the center of each "ear reference point" (left and right) and the tip of the mouth.

A handset should be initially positioned with the earpiece region pressed against the ear spacer of a head phantom. For the SCC-34/SC-2 head phantom, the device should be positioned parallel to the "N-F" line defined along the base of the ear spacer that contains the "ear reference point". For interim head phantoms, the device should be positioned parallel to the cheek for maximum RF energy coupling. The "test device reference point" is aligned to the "ear reference point" on the head phantom and the "vertical centerline" is aligned to the "phantom reference plane". This is called the "initial ear position". While maintaining these three alignments, the body of the handset is gradually adjusted to each of the following positions for evaluating SAR:





6.2 Cheek/Touch Position

The device is brought toward the mouth of the head phantom by pivoting against the "ear reference point" or along the "N-F" line for the SCC-34/SC-2 head phantom.

This test position is established:

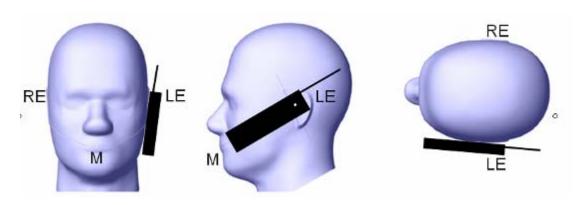
When any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom.

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(or) When any portion of a foldout, sliding or similar keypad cover opened to its intended self-adjusting normal use position is in contact with the cheek or mouth of the phantom.

For existing head phantoms – when the handset loses contact with the phantom at the pivoting point, rotation should continue until the device touches the cheek of the phantom or breaks its last contact from the ear spacer.

Cheek / Touch Position



6.3 Ear/Tilt Position

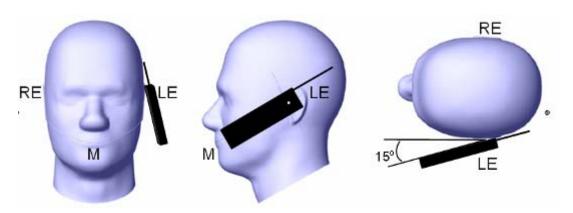
With the handset aligned in the "Cheek/Touch Position":

- 1) If the earpiece of the handset is not in full contact with the phantom's ear spacer (in the "Cheek/Touch position") and the peak SAR location for the "Cheek/Touch" position is located at the ear spacer region or corresponds to the earpiece region of the handset, the device should be returned to the "initial ear position" by rotating it away from the mouth until the earpiece is in full contact with the ear spacer.
- 2) (otherwise) The handset should be moved (translated) away from the cheek perpendicular to the line passes through both "ear reference points" (note: one of these ear reference points may not physically exist on a split head model) for approximate 2-3 cm. While it is in this position, the device handset is tilted away from the mouth with respect to the "test device reference point" until the inside angle between the vertical centerline on the front surface of the phone and the horizontal line passing through the ear reference point is by 15 80°. After the tilt, it is then moved (translated) back toward the head perpendicular to the line passes through both "ear reference points" until the device touches the phantom or the ear spacer. If the antenna touches the head first, the positioning process should be repeated with a tilt angle less than 15° so that the device and its antenna would touch the phantom simultaneously. This test position may require a device holder or positioner to achieve the translation and tilting with acceptable positioning repeatability.

If a device is also designed to transmit with its keypad cover closed for operating in the head position, such positions should also be considered in the SAR evaluation. The device should be tested on the left and right side of the head phantom in the "Cheek/Touch" and "Ear/Tilt" positions. When applicable, each configuration should be tested with the antenna in its fully extended and fully retracted positions.

These test configurations should be tested at the high, middle and low frequency channels of each operating mode; for example, AMPS, CDMA, and TDMA. If the SAR measured at the middle channel for each test configuration (left, right, Cheek/Touch, Tilt/Ear, extended and retracted) is at least 2.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s). If the transmission band of the test device is less than 10 MHz, testing at the high and low frequency channels is optional.

Ear /Tilt 15° Position



6.4 Test positions for body-worn and other configurations

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. When multiple accessories that do not contain metallic components are supplied with the device, the device may be tested with only the accessory that dictates the closest spacing to the body. When multiple accessories that contain metallic components are supplied with the device, the device must be tested with each accessory that contains a unique metallic component. If multiple accessories share an identical metallic component (e.g., the same metallic belt-clip used with different holsters with no other metallic components), only the accessory that dictates the closest spacing to the body must be tested.

Body-worn accessories may not always be supplied or available as options for some devices that are intended to be authorized for body-worn use. A separation distance of 1.5 cm between the back of the device and a flat phantom is recommended for testing body-worn SAR compliance under such circumstances. Other separation distances may be used, but they should not exceed 2.5 cm. In these cases, the device may use body-worn accessories that provide a separation distance greater than that tested for the device provided however that the accessory contains no metallic components.

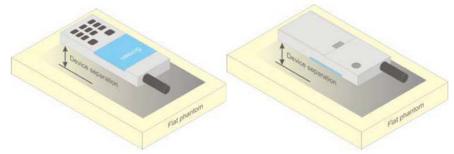


Figure 5 - Test positions for body-worn devices

6.5 Test Distance for SAR Evaluation

In this case the EUT(Equipment Under Test) is set 5mm away from the phantom, the test distance is 5mm.

6.6 SAR Evaluation Procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the SAR value at a fixed location above the ear point or central position was used as a reference value for assessing the power drop. The SAR at this point is measured at the start of the test and then again at the end of the testing.

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- Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or radiating structures of the EUT, the horizontal grid spacing was 15 mm x 15 mm, and the SAR distribution was determined by integrated grid of 1.5mm x 1.5mm. Based on these data, the area of the maximum absorption was determined by spline interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.
- Step 3: Around this point, a volume of 30 mm x 30 mm x 30 mm was assessed by measuring 7x 7 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:
 - 1) The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
 - 2) The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one dimensional splines with the "Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the averages.

All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

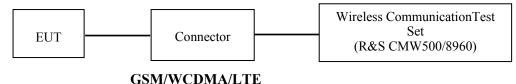
Step 4: Re-measurement of the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation was repeated.

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7. CONDUCTED OUTPUT POWER MEASUREMENT

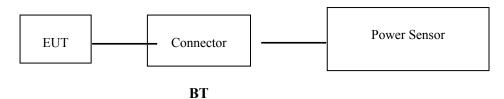
7.1 Test Procedure

The RF output of the transmitter was connected to the input of the Wireless Communication Test Set through Connector.



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The RF output of the transmitter was connected to the input port of the Power Sensor through Connector.



7.2 Radio Configuration

The power measurement was configured by the Wireless Communication Test Set.

GSM/GPRS

Function: Menu select > GSM Mobile Station > GSM 850/1900

Press Connection control to choose the different menus

Press RESET > choose all the reset all settings

Connection Press Signal Off to turn off the signal and change settings

Network Support > GSM + GPRS

Main Service > Packet Data

Service selection > Test Mode A – Auto Slot Config. off

MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting

- > Slot configuration > Uplink/Gamma
- > 33 dBm for GPRS 850
- > 30 dBm for GPRS 1900

BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel

Frequency Offset > + 0 Hz

Mode > BCCH and TCH

BCCH Level > -85 dBm (May need to adjust if link is not stabe)

BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]

Channel Type > Off

P0 > 4 dB

Slot Config > Unchanged (if already set under MS signal)

TCH > choose desired test channel

Hopping > Off

Main Timeslot > 3

Network Coding Scheme > CS4 (GPRS) Bit Stream > 2E9-1 PSR Bit Stream

AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input

Connection Press Signal on to turn on the signal and change settings

WCDMA Release 99

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP

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TS34.121-1 specification. The EUT has a nominal maximum output power of 24dBm (+1.7/-3.7).

	Loopback Mode	Test Mode 1
WCDMA	Rel99 RMC	12.2kbps RMC
General Settings	Power Control Algorithm	Algorithm2
	β_c/β_d	8/15

HSDPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP

TS34.121-1 specification.

	Mode	HSDPA	HSDPA	HSDPA	HSDPA				
	Subset	1	2	3	4				
	Loopback Mode			Test Mode					
	Rel99 RMC			12.2kbps RM	1C				
	HSDPA FRC			H-Set1					
WCDMA	Power Control Algorithm	Algorithm2							
General	β_{c}	2/15	12/15	15/15	15/15				
Settings	β_{d}	15/15	15/15	8/15	4/15				
	$\beta_d(SF)$		64						
	β_{c}/β_{d}	2/15	12/15	15/8	15/4				
	$eta_{ m hs}$	4/15	24/15	30/15	30/15				
	MPR(dB)	0	0	0.5	0.5				
	DACK			8					
	DNAK			8					
HSDPA	DCQI			8					
Specific	Ack-Nack repetition factor			3					
Settings	CQI Feedback	4ms							
	CQI Repetition Factor	_	2						
	Ahs=βhs/ βc			30/15					

HSUPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA					
	Subset	1	2	3	4	5					
	Loopback Mode			Test Mode 1							
	Rel99 RMC	12.2kbps RMC									
	HSDPA FRC	H-Set1									
	HSUPA Test	HSUPA Loopback									
WCDMA	Power Control Algorithm			Algorithm2							
General	β_{c}	11/15	6/15	15/15	2/15	15/15					
Settings	β_d	15/15	15/15	9/15	15/15	0					
	β_{ec}	209/225	12/15	30/15	2/15	5/15					
	β_c/β_d	11/15	6/15	15/9	2/15	-					
	$eta_{ m hs}$	22/15	12/15	30/15	4/15	5/15					
	CM(dB)	1.0	3.0	2.0	3.0	1.0					
	MPR(dB)	0	2	1	2	0					
	DACK		8								
	DNAK			8							
	DCQI	8									
HSDPA	Ack-Nack		3								
Specific	repetition factor										
Settings	CQI Feedback	4ms									
	CQI Repetition	2									
	Factor										
	Ahs= β_{hs}/β_{c}			30/15							
	DE-DPCCH	6	8	8	5	7					
	DHARQ	0	0	0	0	0					
	AG Index	20	12	15	17	21					
	ETFCI	75	67	92	71	81					
	Associated Max	242.1	174.9	482.8	205.8	308.9					
	UL Data Rate kbps										
HSUPA Specific Settings	Reference E_FCls	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27		E-TFCI 11 E-TFCI PO4 E-TFCI 92 E-TFCI PO 18	E-TFC E-TFC E-TFC E-TFC E-TFC E-TFC E-TFC	CI 11 E CI PO 4 CI 67 I PO 18 CI 71 II PO23 CI 75 II PO26 CI 81 I PO 27					

DC-HSDPA

The following tests were conducted according to the test requirements in Table C.8.1.12 of 3GPP TS 34.121-1

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

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Parameter	Unit	Value						
Nominal Avg. Inf. Bit Rate	kbps	60						
Inter-TTI Distance	TTI's	1						
Number of HARQ Processes	Proces	6						
	ses	Ŭ						
Information Bit Payload (N_{INF})	Bits	120						
Number Code Blocks	Blocks	1						
Binary Channel Bits Per TTI	Bits	960						
Total Available SML's in UE	SML's	19200						
Number of SML's per HARQ Proc.	SML's	3200						
Coding Rate		0.15						
Number of Physical Channel Codes	Codes	1						
Modulation		QPSK						
Note 1: The RMC is intended to be used for DC-HSDPA								
mode and both cells shall transmit	with identi	ical						
parameters as listed in the table								

parameters as listed in the table.

Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and

retransmission is not allowed. The redundancy ar constellation version 0 shall be used.

HSPA+

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

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

Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).

Note 3: DPDCH is not configured, therefore the β_c is set to 1 and β_d = 0 by default.

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

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

The following tests were conducted according to the test requirements in Table C.11.1.4 of 3GPP TS 34.121-1

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FDD-LTE

For UE Power Class 1 and 3, the allowed Maximum Power Reduction (MPR) for the maximum output power in Table 6.2.2-1due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1 and 3

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

For UE Power Class 1 and 3 the specific requirements and identified sub clauses are specified in Table 6.2.4-1 along with the allowed A-MPR values that may be used to meet these requirements. The allowed A-MPR values specified below in Table 6.2.4-1 to 6.2.4-15 are in addition to the allowed MPR requirements specified in sub clause 6.2.3.

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (subclause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N _{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	N/A
			3	>5	≤1
NS_03	6.6.2.2.1	2, 4,10, 23, 25, 35, 36	5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	N/A
NS_07	6.6.2.2.3 6.6.3.3.2	13	10	Table 6.2.4-2	
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤1
140_09	0.0.3.3.4	21	10, 15	> 55	≤2
NS_10		20	15, 20	Table 6.2.4-3	
NS_11	6.6.2.2.1	23	1.4, 3, 5, 10, 15, 20	Table 6.2.4-5	
NS_12	6.6.3.3.5	26	1.4, 3, 5	Table 6.2.4-6	
NS_13	6.6.3.3.6	26	5	Table 6.2.4-7	
NS_14	6.6.3.3.7	26	10, 15	Table 6.2.4-8	
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4-9 Table 6.2.4-10	
NS_16	6.6.3.3.9	27	3, 5, 10	Table 6.2.4-11, Table 6.2.4-12, Table 6.2.4-13	
NS_17	6.6.3.3.10	28	5, 10	Table 5.6-1	N/A
NS_18	6.6.3.3.11	28	5	≥2	≤ 1
140_10	0.0.3.3.11	20	10, 15, 20	≥ 1	≤ 4
NS_19	6.6.3.3.12	44	10, 15, 20	Table 6.2.4-14	
NS_20	6.2.2 6.6.2.2.1 6.6.3.2	23	5, 10, 15, 20	Table 6.2.4-15	
NS_32	-	-	-	-	-

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7.3 Maximum Target Output Power

	Max Target	Power(dBm)	
		Channel	
Mode/Band	Low	Middle	High
GSM 850	35.6	35.6	35.6
GPRS 1 TX Slot	35.5	35.5	35.5
GPRS 2 TX Slot	33.2	33.2	33.2
GPRS 3 TX Slot	31.4	31.4	31.4
GPRS 4 TX Slot	29.5	29.5	29.5
PCS 1900	31.2	31.2	31.2
GPRS 1 TX Slot	31.2	31.2	31.2
GPRS 2 TX Slot	29.2	29.2	29.2
GPRS 3 TX Slot	27.6	27.6	27.6
GPRS 4 TX Slot	25.8	25.8	25.8
WCDMA Band 2	23.6	23.6	23.6
HSDPA	22.6	22.6	22.6
HSUPA	22.6	22.6	22.6
DC-HSDPA	22.5	22.5	22.5
HSPA+	22.7	22.7	22.7
WCDMA Band 4	23.6	23.6	23.6
HSDPA	21.9	21.9	21.9
HSUPA	22.3	22.3	22.3
DC-HSDPA	22.1	22.1	22.1
HSPA+	21.9	21.9	21.9
WCDMA Band 5	24.1	24.1	24.1
HSDPA	23.2	23.2	23.2
HSUPA	23.5	23.5	23.5
DC-HSDPA	23.2	23.2	23.2
HSPA+	23.2	23.2	23.2
LTE Band 2	24.5	24.5	24.5
LTE Band 4	24.4	24.4	24.4
LTE Band 5	24.3	24.3	24.3
LTE Band 7	23	23	23
LTE Band 12	24.6	24.6	24.6
LTE Band 17	24.6	24.6	24.6
LTE Band 66	24.4	24.4	24.4
LTE Band 71	24.7	24.7	24.7
Bluetooth BDR	2.5	2.5	2.5
Bluetooth EDR	4.0	4.0	4.0

Note: The Maximum Target Power for LTE bands corresponds to their maximum power in QPSK modes with maximum bandwidth.

7.4 Test Results:

GSM:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)
	128	824.2	35.50
GSM 850	190	836.6	35.23
	251	848.8	35.29
	512	1850.2	31.13
PCS 1900	661	1880	30.87
	810	1909.8	30.48

GPRS:

Dand	Channel Frequency		RF Output Power (dBm)					
Band	No.	(MHz)	1 slot	2 slots	3 slots	4 slots		
	128	824.2	35.39	33.05	31.30	29.32		
GSM 850	190	836.6	35.09	33.10	31.19	29.14		
	251	848.8	34.99	33.06	31.24	29.36		
	512	1850.2	31.08	29.05	27.52	25.67		
PCS 1900	661	1880	30.78	28.54	27.06	25.13		
	810	1909.8	30.48	28.09	26.56	24.76		

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

Number of Time slot	1	2	3	4
Duty Cycle	1:8	1:4	1:2.66	1:2
Time based Ave. power compared to slotted Ave. power	-9 dB	-6 dB	-4.25 dB	-3 dB
Crest Factor	8	4	2.66	2

The time based average power for GPRS

D 1	Channel Frequency		Time based average Power (dBm)				
Band	No.	(MHz)	1 slot	2 slot	3 slots	4 slots	
	128	824.2	26.39	27.05	27.05	26.32	
GSM 850	190	836.6	26.09	27.1	26.94	26.14	
	251	848.8	25.99	27.06	26.99	26.36	
	512	1850.2	22.08	23.05	23.27	22.67	
PCS 1900	661	1880	21.78	22.54	22.81	22.13	
	810	1909.8	21.48	22.09	22.31	21.76	

Note:

- 1. Agilent Technologies Communication Tester (8960) was used for the measurement of GSM peak and average output power for active timeslots.
- 2 .For GSM voice, 1 timeslot has been activated with power level 5 (850 MHz band) and 0 (1900 MHz band).
- 3 .For GPRS, 1, 2, 3 and 4 timeslots has been activated separately with power level 3(850 MHz band) and 3(1900 MHz band).

WCDMA: Results (12.2kbps RMC)

Band	Frequency (MHz)	RF Output Power (dBm)
	1852.4	23.43
WCDMA Band 2	1880	23.52
	1907.6	23.31
	1712.4	23.47
WCDMA Band 4	1732.6	23.34
	1752.6	23.33
	826.4	24.00
WCDMA Band 5	836.6	23.70
	846.6	23.75

Results (HSDPA)

Band	Frequency		RF Output Power (dBm)				
Danu	(MHz)	Subset 1	Subset 2	Subset 3	Subset 4		
	1852.4	22.24	22.29	22.22	22.27		
WCDMA Band 2	1880	21.78	22.09	22.20	22.26		
	1907.6	22.47	22.24	22.52	22.42		
	1712.4	21.37	21.52	21.23	21.31		
WCDMA Band 4	1732.6	21.83	21.78	21.78	21.48		
	1752.6	21.05	21.15	21.26	21.46		
	826.4	22.79	23.10	22.90	22.80		
WCDMA Band 5	836.6	22.90	22.88	22.81	22.78		
	846.6	22.64	22.67	22.80	22.90		

Results (HSUPA)

Dand	Frequency	RF Output Power (dBm)						
Band	(MHz)	Subset 1	Subset 2	Subset 3	Subset 4	Subset 5		
	1852.4	22.50	22.18	22.36	22.26	22.34		
WCDMA Band 2	1880	22.04	22.18	22.30	22.19	22.02		
	1907.6	22.52	22.39	22.48	22.51	22.48		
	1712.4	21.63	21.86	21.73	21.96	21.71		
WCDMA Band 4	1732.6	21.95	22.09	21.99	22.18	21.89		
	1752.6	21.59	21.43	20.81	21.33	21.33		
	826.4	23.01	22.98	23.21	22.90	23.41		
WCDMA Band 5	836.6	22.86	22.99	23.12	23.11	22.77		
	846.6	23.20	22.80	22.78	22.90	22.87		

Results (DC-HSDPA)

Band	Frequency		RF Output I		
Danu	(MHz)	Subset 1	Subset 2	Subset 3	Subset 4
	1852.4	22.19	22.02	22.03	21.95
WCDMA Band 2	1880	21.72	21.60	21.66	21.62
	1907.6	22.46	22.19	22.22	22.22
	1712.4	21.32	21.36	21.28	21.16
WCDMA Band 4	1732.6	21.95	21.75	21.77	21.66
	1752.6	21.10	20.94	20.92	20.85
	826.4	22.87	22.96	22.84	22.70
WCDMA Band 5	836.6	22.94	22.82	22.81	22.76
	846.6	23.09	23.12	23.09	22.92

Results (HSPA+)

Band	Frequency (MHz)	RF Output Power (dBm)
	1852.4	22.56
WCDMA Band 2	1880	21.99
	1907.6	22.53
	1712.4	21.67
WCDMA Band 4	1732.6	21.82
	1752.6	21.48
	826.4	23.04
WCDMA Band 5	836.6	22.75
	846.6	23.07

Note:

- 1. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement Channel) Configured in Test Loop Model 1.
- 2. KDB 941225 D01-Body SAR is not required for HSDPA/HSUPA/DC-HSDPA/HSPA+ when the maximum average output of each RF channel is less than ¼ dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.

LTE Band 2:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
		RB1#0	0	0	23.56	23.62	23.54
		RB1#3	0	0	23.62	23.51	23.58
	ODGIZ	RB1#5	0	0	23.65	23.47	23.69
	QPSK	RB3#0	1	1	23.55	23.51	23.48
		RB3#3	1	1	23.68	23.62	23.55
1 43 6		RB6#0	1	1	22.56	22.51	22.52
1.4M		RB1#0	1	1	22.58	22.44	22.61
		RB1#3	1	1	22.52	22.52	22.57
	16.0435	RB1#5	2	2	22.66	22.48	22.59
	16-QAM	RB3#0	2	2	22.57	22.47	22.72
		RB3#3	2	2	22.73	22.52	22.82
		RB6#0	2	2	21.89	21.4	21.77
		RB1#0	0	0	23.98	23.67	23.6
		RB1#8	0	0	23.74	23.55	23.64
	QPSK	RB1#14	0	0	23.98	23.53	23.76
		RB6#0	1	1	22.81	22.76	22.59
		RB6#9	1	1	22.81	22.71	22.65
23.6		RB15#0	1	1	22.62	22.57	22.5
3M		RB1#0	1	1	23.08	22.27	23.11
		RB1#8	1	1	22.9	22.2	23.1
	460135	RB1#14	1	1	22.94	22.22	23.18
	16-QAM	RB6#0	2	2	21.87	21.47	21.46
		RB6#9	2	2	21.97	21.52	21.34
		RB15#0	2	2	21.8	21.44	21.41
		RB1#0	0	0	23.86	23.32	23.4
		RB1#13	0	0	23.83	23.38	23.41
	ODGIZ	RB1#24	0	0	23.64	23.33	23.41
	QPSK	RB15#0	1	1	22.72	22.65	22.71
		RB15#10	1	1	22.62	22.64	22.63
53.4		RB25#0	1	1	22.63	22.54	22.59
5M		RB1#0	1	1	23.3	22.28	22.17
		RB1#13	1	1	23.12	22.32	21.97
	16.0434	RB1#24	1	1	22.98	22.21	21.95
	16-QAM	RB15#0	2	2	21.76	21.61	21.4
		RB15#10	2	2	21.74	21.64	21.55
		RB25#0	2	2	21.71	21.68	21.67

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
		RB1#0	0	0	23.92	23.53	23.67
		RB1#25	0	0	23.64	23.59	23.71
	ODGIZ	RB1#49	1	1	23.59	23.65	23.7
	QPSK	RB25#0	1	1	22.59	22.68	22.61
		RB25#25	1	1	22.64	22.57	22.59
1016		RB50#0	1	1	22.51	22.55	22.61
10M		RB1#0	1	1	23.74	22.54	23.16
		RB1#25	1	1	23.39	22.55	23.12
	16.0414	RB1#49	1	1	23.57	22.39	23.16
	16-QAM	RB25#0	2	2	21.84	21.62	21.61
		RB25#25	2	2	21.74	21.71	21.7
		RB50#0	2	2	21.68	21.67	21.6
		RB1#0	0	0	23.96	23.4	23.82
		RB1#38	0	0	23.7	23.32	24.4
	QPSK	RB1#74	1	1	23.84	23.25	24.42
		RB36#0	1	1	22.63	22.66	23.08
		RB36#39	1	1	22.74	22.71	23.03
1514		RB75#0	1	1	22.58	22.55	23.14
15M		RB1#0	1	1	23.18	23.38	23.97
		RB1#38	1	1	22.91	23.19	23.9
	160435	RB1#74	2	2	22.77	23.06	23.82
	16-QAM	RB36#0	2	2	21.66	21.44	22.19
		RB36#39	2	2	21.59	21.37	22.28
		RB75#0	2	2	21.57	21.43	22.29
		RB1#0	0	0	24.42	24.37	24.44
		RB1#50	0	0	24.32	24.32	24.36
	ODCK	RB1#99	0	0	24.36	24.29	24.26
	QPSK	RB50#0	1	1	24.13	24.32	24.08
		RB50#50	1	1	23.92	23.97	23.86
2014		RB100#0	1	1	23.56	23.99	23.64
20M		RB1#0	1	1	23.72	23.18	22.7
		RB1#50	1	1	23.59	23.16	22.84
	16.0434	RB1#99	2	2	23.45	23.06	22.92
	16-QAM	RB50#0	2	2	22.19	22.28	22.31
		RB50#50	2	2	22.16	22.16	22.24
		RB100#0	2	2	22.24	22.26	22.33

LTE Band 4:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
		RB1#0	0	0	24.03	24.30	24.23
		RB1#3	0	0	24.04	24.16	24.20
	ODGIZ	RB1#5	0	0	24.03	24.28	24.16
	QPSK	RB3#0	1	1	23.97	23.97	24.13
		RB3#3	1	1	24.08	24.03	24.09
1 43 6		RB6#0	1	1	23.08	24.03 24.30 24.04 24.16 24.03 24.28 23.97 23.97 24.08 24.03 23.08 22.85 23.17 23.79 23.08 23.71 23.15 23.59 22.77 23.34 22.96 23.29 22.18 21.93 24.08 24.31 24.06 23.45 24.12 23.37 22.94 22.92 23.13 23.19 23.05 22.99 23.08 22.99 23.03 22.90 23.12 22.97 22.18 21.42 22.08 21.10 22.06 21.26	23.02
1.4M		RB1#0	1	1	23.17	23.79	24.07
		RB1#3	1	1	23.08	23.71	24.23
	16.0414	RB1#5	2	2	23.15	23.59	24.14
	16-QAM	RB3#0	2	2	22.77	23.34	23.65
		RB3#3	2	2	22.96	23.29	23.71
		RB6#0	2	2	22.18	21.93	22.28
		RB1#0	0	0	24.08	24.31	23.45
		RB1#8	0	0	24.06	23.45	23.55
	ODGIZ	RB1#14	0	0	24.12	23.37	23.34
	QPSK	RB6#0	1	1	22.94	22.92	22.65
		RB6#9	1	1	23.13	23.19	22.71
3M		RB15#0	1	1	23.05	22.99	22.56
31VI		RB1#0	1	1	23.08	22.99	23.11
		RB1#8	1	1	23.03	22.90	23.28
	16 OAM	RB1#14	1	1	23.12	22.97	23.13
	16-QAM	RB6#0	2	2	22.18	21.42	21.60
		RB6#9	2	2	22.08	21.10	21.73
		RB15#0	2	2	22.06	21.26	21.63
		RB1#0	0	0	23.59	23.45	23.33
		RB1#13	0	0	23.55	23.31	23.23
	QPSK	RB1#24	0	0	23.54	23.21	23.26
	QPSK	RB15#0	1	1	22.91	22.80	22.85
		RB15#10	1	1	22.67	22.85	22.79
514		RB25#0	1	1	22.59	22.51	22.63
5M		RB1#0	1	1	22.71	22.21	22.01
		RB1#13	1	1	22.77	22.06	21.92
	16.0434	RB1#24	1	1	22.84	22.00	22.00
	16-QAM	RB15#0	2	2	21.30	21.33	21.24
		RB15#10	2	2	21.32	21.35	21.40
		RB25#0	2	2	21.46	21.28	21.57

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
		RB1#0	0	0	23.48	23.25	23.15
		RB1#25	0	0	23.42	23.27	23.45
	ODGIZ	RB1#49	1	1	23.40	23.26	23.32
	QPSK	RB25#0	1	1	22.92	22.88	22.62
		RB25#25	1	1	22.85	22.79	22.90
1014		RB50#0	1	1	22.61	22.50	22.60
10M		RB1#0	1	1	23.31	22.24	22.53
		RB1#25	1	1	23.37	22.26	22.61
	16.0414	RB1#49	1	1	23.35	22.26	22.54
	16-QAM	RB25#0	2	2	21.41	21.37	21.74
		RB25#25	2	2	21.47	21.41	21.41
		RB50#0	2	2	21.41	21.46	21.62
		RB1#0	0	0	23.61	23.65	23.34
		RB1#38	0	0	23.47	23.51	23.37
	QPSK	RB1#74	1	1	23.42	23.50	23.15
		RB36#0	1	1	22.77	22.70	22.62
		RB36#39	1	1	22.64	22.68	22.66
1514		RB75#0	1	1	22.52	22.61	22.56
15M	16-QAM	RB1#0	1	1	23.30	22.66	23.23
		RB1#38	1	1	23.24	22.49	23.40
		RB1#74	2	2	23.19	22.57	23.41
		RB36#0	2	2	21.46	21.54	21.44
		RB36#39	2	2	21.52	21.57	21.58
		RB75#0	2	2	21.47	21.46	21.38
		RB1#0	0	0	23.41	23.38	23.20
		RB1#50	0	0	23.31	23.22	23.26
	ODCK	RB1#99	0	0	23.41	23.30	23.18
	QPSK	RB50#0	1	1	22.96	22.87	22.72
		RB50#50	1	1	22.90	22.82	22.80
20M		RB100#0	1	1	22.57	22.61	22.71
		RB1#0	1	1	22.44	22.45	22.56
		RB1#50	1	1	22.37	22.42	22.60
	16.0434	RB1#99	2	2	22.36	22.48	22.78
	16-QAM	RB50#0	2	2	21.32	21.26	21.37
		RB50#50	2	2	21.38	21.39	21.28
		RB100#0	2	2	21.46	21.54	21.46

LTE Band 5:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
		RB1#0	0	0	23.99	24.00	23.92
		RB1#3	0	0	23.98	24.03	23.83
	ODGIZ	RB1#5	0	0	23.99	24.19	23.94
	QPSK	RB3#0	1	1	24.04	24.16	23.72
		RB3#3	1	1	23.87	24.11	23.88
1 434		RB6#0	1	1	22.80	22.79	22.71
1.4M	I	RB1#0	1	1	22.72	23.80	23.63
		RB1#3	1	1	22.83	23.88	23.72
	16.0414	RB1#5	2	2	22.98	23.80	23.78
	16-QAM	RB3#0	2	2	22.92	23.05	23.02
		RB3#3	2	2	22.80	23.11	23.11
		RB6#0	2	2	22.46	22.01	22.36
		RB1#0	0	0	24.05	24.04	23.84
		RB1#8	0	0	24.11	23.99	23.92
	ODGIZ	RB1#14	1	1	24.01	24.13	23.77
	QPSK	RB6#0	1	1	23.00	23.02	22.75
		RB6#9	1	1	22.99	23.02	22.85
23.4		RB15#0	1	1	22.95	22.87	22.93
3M		RB1#0	1	1	23.33	23.28	22.86
		RB1#8	1	1	23.04	23.25	23.00
	16 0 4 14	RB1#14	2	2	23.23	23.13	22.96
	16-QAM	RB6#0	2	2	22.38	22.16	21.78
		RB6#9	2	2	22.52	22.16	21.96
		RB15#0	2	2	22.54	22.33	22.37
		RB1#0	0	0	24.12	23.78	23.67
		RB1#13	0	0	23.92	23.71	23.70
	ODGIZ	RB1#24	0	0	23.94	23.76	23.78
	QPSK	RB15#0	1	1	22.90	23.04	22.80
		RB15#10	1	1	22.90	22.90	22.65
53.4		RB25#0	1	1	22.95	22.94	22.79
5M		RB1#0	1	1	23.42	22.83	22.36
		RB1#13	1	1	23.24	22.64	22.38
	16.0434	RB1#24	1	1	23.23	22.78	22.45
	16-QAM	RB15#0	2	2	22.32	22.27	21.96
		RB15#10	2	2	22.20	22.28	21.84
		RB25#0	2	2	22.47	22.26	22.12

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
		RB1#0	0	0	24.12	23.87	24.12
		RB1#25	0	0	24.03	24.02	24.03
	ODCK	RB1#49	1	1	24.15	23.91	24.17
	QPSK	RB25#0	1	1	23.06	23.31	22.92
		RB25#25	1	1	23.27	23.69	23.26
1014		RB50#0	1	1	22.79	23.21	22.84
10M		RB1#0	1	1	23.94	22.81	23.52
		RB1#25	1	1	23.80	22.71	23.37
	16 OAM	RB1#49	2	2	23.71	22.69	23.46
	16-QAM	RB25#0	2	2	22.41	22.40	22.34
		RB25#25	2	2	22.23	22.09	21.92
		RB50#0	2	2	22.26	22.42	22.33

LTE Band 7:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
		RB1#0	0	0	22.69	22.23	22.29
		RB1#13	0	0	22.62	22.35	22.49
	ODGIZ	RB1#24	0	0	22.57	22.33	21.76
	QPSK	RB15#0	1	1	21.43	21.54	21.78
		RB15#10	1	1	21.48	21.82	21.89
53.6		RB25#0	1	1	21.39	21.73	21.88
5M		RB1#0	1	1	22.14	22.07	22.09
		RB1#13	1	1	22.13	22.09	21.78
	16.0435	RB1#24	1	1	22.05	21.94	21.61
	16-QAM	RB15#0	2	2	20.57	20.67	20.9
		RB15#10	2	2	20.52	20.72	20.77
		RB25#0	2	2	20.87	20.64	21.14
		RB1#0	0	0	22.65	22.81	22.25
		RB1#25	0	0	22.62	22.83	22.65
	ODGIZ	RB1#49	0	0	22.53	22.75	22.29
	QPSK	RB25#0	1	1	21.69	21.66	21.94
		RB25#25	1	1	21.48	21.68	21.81
103.6		RB50#0	1	1	21.59	21.68	21.95
10M	16.041	RB1#0	1	1	22.4	22.05	21.88
		RB1#25	1	1	22.25	22.05	22.26
		RB1#49	1	1	22.36	22.2	21.83
	16-QAM	RB25#0	2	2	20.75	20.92	21.13
		RB25#25	2	2	20.72	20.75	21.02
		RB50#0	2	2	20.65	20.9	21.09
		RB1#0	0	0	22.66	22.81	22.67
		RB1#38	0	0	22.67	22.73	22.84
	ODGIZ	RB1#74	0	0	22.56	22.8	22.6
	QPSK	RB36#0	1	1	21.49	21.59	21.76
		RB36#39	1	1	21.45	21.76	21.79
153.6		RB75#0	1	1	21.49	21.73	21.84
15M		RB1#0	1	1	22.67	22.87	22.5
		RB1#38	1	1	22.68	22.92	22.4
	16.0434	RB1#74	1	1	22.73	22.85	22.12
	16-QAM	RB36#0	2	2	20.54	20.81	20.89
		RB36#39	2	2	20.69	20.73	20.89
		RB75#0	2	2	20.45	20.6	20.97

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
		RB1#0	0	0	22.45	22.64	22.49
		RB1#50	0	0	22.34	22.63	22.56
	QPSK	RB1#99	0	0	22.67	22.74	22.69
	QPSK	RB50#0	1	1	21.74	21.89	21.81
		RB50#50	1	1	21.75	22.16	21.94
20M		RB100#0	1	1	21.56	21.81	21.86
20101		RB1#0	1	1	22.1	22.56	22.22
		RB1#50	1	1	22.09	22.69	22.04
	16 OAM	RB1#99	1	1	22.11	22.81	22.25
	16-QAM	RB50#0	2	2	20.75	20.67	20.74
		RB50#50	2	2	20.75	20.74	20.74
		RB100#0	2	2	20.65	20.76	21

LTE Band 12:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
		RB1#0	0	0	23.89	24.26	24.45
	ODGIZ	RB1#3	0	0	23.81	24.49	24.19
		RB1#5	0	0	23.86	24.43	24.30
	QPSK	RB3#0	1	1	24.18	24.42	24.38
		RB3#3	1	1	24.31	24.29	24.37
1.43.6		RB6#0	1	1	23.21	23.29	23.29
1.4M		RB1#0	1	1	24.15	23.78	24.03
		RB1#3	1	1	24.18	23.82	24.06
	160135	RB1#5	2	2	24.09	23.83	23.92
	16-QAM	RB3#0	2	2	23.58	23.44	23.34
		RB3#3	2	2	23.48	23.43	23.40
		RB6#0	2	2	22.33	22.42	21.90
		RB1#0	0	0	24.31	24.27	24.27
		RB1#8	0	0	24.26	24.45	24.21
	QPSK	RB1#14	1	1	24.28	24.46	24.26
		RB6#0	1	1	23.02	23.20	23.27
		RB6#9	1	1	23.12	23.29	23.17
23.4		RB15#0	1	1	23.28	23.12	23.08
3M	16-QAM	RB1#0	1	1	23.39	23.61	23.84
		RB1#8	1	1	23.48	23.65	23.91
		RB1#14	2	2	23.20	23.64	23.84
		RB6#0	2	2	22.19	22.15	22.13
		RB6#9	2	2	22.19	22.24	21.97
		RB15#0	2	2	22.38	22.24	22.05
		RB1#0	0	0	24.30	24.08	24.10
		RB1#13	0	0	24.33	24.04	24.22
	ODGIZ	RB1#24	0	0	24.44	24.00	24.12
	QPSK	RB15#0	1	1	23.01	23.30	23.14
		RB15#10	1	1	23.32	23.23	23.07
53.6		RB25#0	1	1	23.26	23.26	23.20
5M		RB1#0	1	1	23.04	22.95	22.76
		RB1#13	1	1	23.15	22.96	22.78
	16.0434	RB1#24	1	1	23.17	23.07	22.73
	16-QAM	RB15#0	2	2	22.16	22.10	22.29
		RB15#10	2	2	22.02	22.36	22.07
		RB25#0	2	2	22.43	22.40	22.31

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
		RB1#0	0	0	24.33	24.39	24.30
		RB1#25	0	0	24.43	24.46	24.31
	QPSK	RB1#49	1	1	24.43	24.26	24.31
	QPSK	RB25#0	1	1	23.64	23.92	23.72
		RB25#25	1	1	23.51	23.65	23.31
10M		RB50#0	1	1	23.25	23.28	23.11
TOW		RB1#0	1	1	23.61	23.44	23.37
		RB1#25	1	1	23.73	23.75	23.55
	16-QAM	RB1#49	2	2	23.74	23.56	23.47
	10-QAM	RB25#0	2	2	22.77	22.34	22.84
		RB25#25	2	2	22.48	22.81	22.33
		RB50#0	2	2	22.69	22.39	22.61

LTE Band 17:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
		RB1#0	0	0	24.41	24.07	24.22
		RB1#13	0	0	24.35	23.98	24.16
	QPSK	RB1#24	0	0	24.47	23.87	24.19
	QPSK	RB15#0	1	1	23.43	23.23	23.14
		RB15#10	1	1	23.23	23.33	23.06
5M		RB25#0	1	1	23.35	23.3	23.18
3101		RB1#0	1	1	23.7	23.05	22.74
		RB1#13	1	1	23.6	22.88	22.67
	16 OAM	RB1#24	1	1	23.53	22.86	22.81
	16-QAM	RB15#0	2	2	22.3	22.14	22.15
		RB15#10	2	2	22.21	22.56	22.21
		RB25#0	2	2	22.32	22.55	22.51
		RB1#0	0	0	24.23	24.13	24.33
		RB1#25	0	0	24.33	24.23	24.41
	QPSK	RB1#49	1	1	24.36	24.38	24.48
	QPSK	RB25#0	1	1	23.45	23.3	23.32
		RB25#25	1	1	23.2	23.24	23.16
10M		RB50#0	1	1	23.2	23.14	23.16
I UIVI		RB1#0	1	1	23.42	23.21	23.76
		RB1#25	1	1	23.47	23.05	23.7
	16 OAM	RB1#49	2	2	23.49	23.02	23.67
	16-QAM	RB25#0	2	2	22.35	22.8	22.77
		RB25#25	2	2	22.38	22.34	22.23
		RB50#0	2	2	22.27	22.72	22.62

LTE Band 66:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
		RB1#0	0	0	24.09	23.44	23.65
	ODCK	RB1#3	0	0	24.23	23.45	23.61
		RB1#5	0	0	23.62	23.31	23.56
	QPSK	RB3#0	1	1	23.51	23.47	23.42
		RB3#3	1	1	23.49	23.48	23.42
1.05		RB6#0	1	1	22.40	22.47	22.49
1.4M		RB1#0	1	1	23.23	21.74	23.06
		RB1#3	1	1	23.45	21.72	23.09
	160135	RB1#5	2	2	22.59	21.95	23.09
	16-QAM	RB3#0	2	2	22.78	22.28	22.72
		RB3#3	2	2	22.79	22.34	22.76
		RB6#0	2	2	21.61	21.66	20.84
		RB1#0	0	0	23.63	23.41	23.58
		RB1#8	0	0	23.67	23.61	23.54
	QPSK	RB1#14	0	0	23.72	23.53	23.80
		RB6#0	1	1	22.77	22.73	22.63
		RB6#9	1	1	22.52	22.68	22.63
23.4		RB15#0	1	1	22.41	22.48	22.53
3M	16-QAM	RB1#0	1	1	23.18	23.20	22.67
		RB1#8	1	1	23.09	23.29	22.62
		RB1#14	1	1	23.34	23.42	22.69
		RB6#0	2	2	21.60	21.71	21.37
		RB6#9	2	2	21.40	21.77	21.45
		RB15#0	2	2	21.42	21.77	21.41
		RB1#0	0	0	23.63	23.25	23.25
		RB1#13	0	0	23.57	23.19	23.27
	ODGIZ	RB1#24	0	0	23.71	23.36	23.27
	QPSK	RB15#0	1	1	22.69	22.68	22.69
		RB15#10	1	1	22.50	22.68	22.63
5M		RB25#0	1	1	22.51	22.59	22.40
		RB1#0	1	1	22.91	22.21	22.32
		RB1#13	1	1	22.88	22.21	22.05
	16 0 43 4	RB1#24	1	1	22.84	22.32	22.07
	16-QAM	RB15#0	2	2	21.52	21.48	21.58
		RB15#10	2	2	21.48	21.49	21.50
		RB25#0	2	2	21.61	21.58	21.72

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
		RB1#0	0	0	23.64	23.40	23.79
		RB1#25	0	0	23.65	23.45	23.77
	ODGIZ	RB1#49	1	1	23.76	23.44	23.68
	QPSK	RB25#0	1	1	22.63	22.57	22.46
		RB25#25	1	1	22.62	22.56	22.53
1014		RB50#0	1	1	22.51	22.53	22.57
10M		RB1#0	1	1	23.44	22.64	23.32
		RB1#25	1	1	23.33	22.61	23.21
	16.0434	RB1#49	1	1	23.48	22.73	23.11
	16-QAM	RB25#0	2	2	21.58	21.62	21.74
		RB25#25	2	2	21.73	21.54	21.57
		RB50#0	2	2	21.55	21.60	21.64
		RB1#0	0	0	23.77	23.17	23.74
		RB1#38	0	0	23.72	23.30	23.76
	QPSK	RB1#74	1	1	23.63	23.26	23.66
		RB36#0	1	1	22.65	22.53	22.40
		RB36#39	1	1	22.67	22.56	22.57
1514		RB75#0	1	1	22.51	22.49	22.48
15M	16-QAM	RB1#0	1	1	23.29	23.32	23.13
		RB1#38	1	1	23.25	23.20	23.30
		RB1#74	2	2	23.43	23.27	23.14
		RB36#0	2	2	21.45	21.42	21.46
		RB36#39	2	2	21.50	21.56	21.60
		RB75#0	2	2	21.57	21.54	21.56
		RB1#0	0	0	23.87	23.95	23.99
		RB1#50	0	0	23.94	24.15	23.97
	ODCK	RB1#99	0	0	23.97	24.24	24.02
	QPSK	RB50#0	1	1	23.29	23.31	23.14
		RB50#50	1	1	23.47	23.56	23.37
20M		RB100#0	1	1	23.18	23.32	23.28
		RB1#0	1	1	22.61	22.59	22.87
		RB1#50	1	1	22.62	22.59	22.94
	16 0 4 3 4	RB1#99	2	2	22.70	22.67	22.93
	16-QAM	RB50#0	2	2	21.60	21.46	21.56
		RB50#50	2	2	21.49	21.26	21.58
		RB100#0	2	2	21.61	21.41	21.67

LTE Band 71:

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
		RB1#0	0	0	24.07	24.07	24.19
	ODCK	RB1#13	0	0	24.04	23.88	24.2
		RB1#24	0	0	23.99	24.09	24.18
	QPSK	RB15#0	1	1	23.19	23.04	23.02
		RB15#10	1	1	23.26	23.03	23.07
53.5		RB25#0	1	1	23.13	23.21	23.04
5M		RB1#0	1	1	23.25	22.74	23.02
		RB1#13	1	1	23.27	22.54	22.93
	16.0434	RB1#24	1	1	23.3	22.59	23.02
	16-QAM	RB15#0	2	2	22.6	22.54	22.2
		RB15#10	2	2	22.61	22.07	22.1
		RB25#0	2	2	22.74	22.2	22.17
		RB1#0	0	0	24.27	23.99	24.13
		RB1#25	0	0	24.15	24.14	24.1
	QPSK	RB1#49	0	0	24.16	24.18	24.37
		RB25#0	1	1	23	23.06	23.21
		RB25#25	1	1	23.07	23.25	22.99
1014		RB50#0	1	1	23.02	23.25	23.21
10M	16-QAM	RB1#0	1	1	23.92	23.05	23.67
		RB1#25	1	1	24.12	22.96	23.78
		RB1#49	1	1	24.01	22.86	23.66
		RB25#0	2	2	22.73	22.39	22.29
		RB25#25	2	2	22.78	22.71	22.15
		RB50#0	2	2	22.55	22.21	22.17
		RB1#0	0	0	24.18	24.52	22.99
		RB1#38	0	0	24.23	24.27	24.43
	ODGIZ	RB1#74	0	0	24.34	24.27	24.27
	QPSK	RB36#0	1	1	23.02	23.03	23.2
		RB36#39	1	1	23.12	23.09	23.1
15M		RB75#0	1	1	23.06	23.04	23.21
		RB1#0	1	1	24.06	23.38	23.99
		RB1#38	1	1	24.04	23.57	24.14
	16.0434	RB1#74	1	1	24.15	23.5	24.07
	16-QAM	RB36#0	2	2	22.73	22.26	22.64
		RB36#39	2	2	22.19	22.13	22.2
		RB75#0	2	2	22.56	22.05	22.67

Test Bandwidth	Test Modulation	Resource Block & RB offset	Target MPR	Meas MPR	Low Channel (dBm)	Middle Channel (dBm)	High Channel (dBm)
		RB1#0	0	0	24.1	24.4	24.27
		RB1#50	0	0	24.05	24.3	24.32
	QPSK	RB1#99	0	0	24.42	24.56	24.45
	QFSK	RB50#0	1	1	23.35	23.49	23.39
		RB50#50	1	1	23.65	23.88	23.61
20M		RB100#0	1	1	22.99	23.31	23.18
20101		RB1#0	1	1	23.21	23.03	23.24
		RB1#50	1	1	23.24	22.89	23.2
	16-QAM	RB1#99	1	1	23.43	23.04	23.36
	10-QAM	RB50#0	2	2	22.65	22.05	22.18
		RB50#50	2	2	22.1	22.07	22.25
		RB100#0	2	2	22.74	22.01	22.11

Bluetooth:

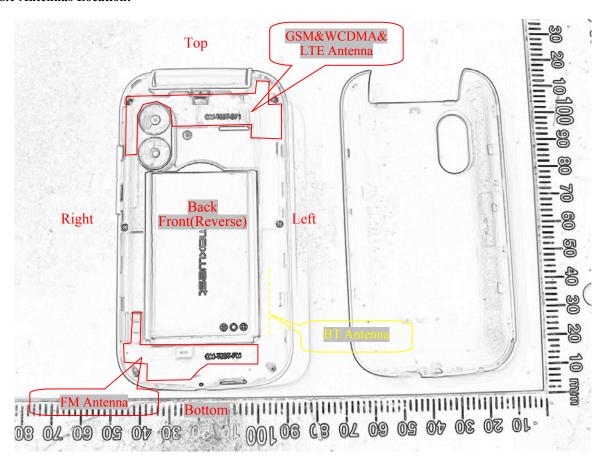
Mode	Channel frequency (MHz)	RF Output Power (dBm)		
	2402	1.26		
BDR(GFSK)	2441	1.59		
	2480	2.31		
	2402	2.37		
$EDR(\pi/4-DQPSK)$	2441	2.71		
	2480	3.34		
	2402	2.75		
EDR(8DPSK)	2441	3.09		
	2480	3.58		

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8. STANDALONE SAR TEST EXCLUSION CONSIDERATIONS

8.1 Antennas Location:



8.2 Standalone SAR test exclusion considerations

Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
Bluetooth	2480	4.0	2.51	0	0.8	3	YES

Note: The WLAN based average power for calculation. and bluetooth based peak output power for calculation.

NOTE:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]

 $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- 1. f(GHz) is the RF channel transmit frequency in GHz.
- 2. Power and distance are rounded to the nearest mW and mm before calculation.
- 3. The result is rounded to one decimal place for comparison.
- 4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

8.3 Standalone SAR estimation:

Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Estimated 1-g (W/kg)
BT Head	2480	4	2.51	0	0.11
BT Body	2480	4	2.51	5	0.11

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Note: The bluetooth based peak power for calculation.

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)]

 $[\sqrt{f(GHz)/x}]$ W/kg for test separation distances \leq 50 mm; where x = 7.5 for 1-g SAR.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion

9. SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

9.1 SAR Test Data

Environmental Conditions

Temperature:	21.2-22.4 ℃	21.4-22.5 ℃	21.1-22.6℃	21.7-22.4 ℃
Relative Humidity:	52 %	54 %	49 %	51 %
ATM Pressure:	101.2 kPa	101.8 kPa	101.5 kPa	101.3 kPa
Test Date:	2024/12/09	2024/12/10	2024/12/11	2024/12/12
Temperature:	21.7-22.6 ℃	21.1-22.3 ℃	/	/
Relative Humidity:	56 %	52 %	/	/
ATM Pressure:	101.5 kPa	102 kPa	/	/
Test Date:	2024/12/13	2024/12/14	/	/

Testing was performed by Musk Huang, Lily Yang, Mark Dong.

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GSM 850:

DUE	T.	Tr. 4	Max.	Max.		1g SAF	R (W/kg)	
EUT Position	Frequency (MHz)	Test Mode	Meas. Power (dBm)	Rated Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	824.2	GSM	/	/	/	/	/	/
Head Left Cheek	836.6	GSM	35.23	35.6	1.089	0.332	0.36	/
	848.8	GSM	/	/	/	/	/	/
	824.2	GSM	/	/	/	/	/	/
Head Left Tilt	836.6	GSM	35.23	35.6	1.089	0.112	0.12	/
	848.8	GSM	/	/	/	/	/	/
	824.2	GSM	35.5	35.6	1.023	0.393	0.40	1#
Head Right Cheek	836.6	GSM	35.23	35.6	1.089	0.369	0.40	/
	848.8	GSM	35.29	35.6	1.074	0.369	0.40	/
	824.2	GSM	/	/	/	/	/	/
Head Right Tilt	836.6	GSM	35.23	35.6	1.089	0.215	0.23	/
	848.8	GSM	/	/	/	/	/	/
Body Worn Front	824.2	GSM	/	/	/	/	/	/
Unfold	836.6	GSM	35.23	35.6	1.089	0.2	0.22	/
(5mm)	848.8	GSM	/	/	/	/	/	/
Body Worn Back	824.2	GSM	/	/	/	/	/	/
Unfold	836.6	GSM	35.23	35.6	1.089	0.268	0.29	/
(5mm)	848.8	GSM	/	/	/	/	/	/
Body Worn Front	824.2	GSM	/	/	/	/	/	/
Fold	836.6	GSM	35.23	35.6	1.089	0.061	0.07	/
(5mm)	848.8	GSM	/	/	/	/	/	/
Body Worn Back	824.2	GSM	/	/	/	/	/	/
Fold	836.6	GSM	35.23	35.6	1.089	0.291	0.32	/
(5mm)	848.8	GSM	/	/	/	/	/	/
Body Front	824.2	GPRS	/	/	/	/	/	/
Unfold	836.6	GPRS	33.1	33.2	1.023	0.178	0.18	/
(5mm)	848.8	GPRS	/	/	/	/	/	/
Body Back	824.2	GPRS	/	/	/	/	/	/
Unfold	836.6	GPRS	33.1	33.2	1.023	0.292	0.30	/
(5mm)	848.8	GPRS	/	/	/	/	/	/
Body Front	824.2	GPRS	/	/	/	/	/	/
Fold	836.6	GPRS	33.1	33.2	1.023	0.068	0.07	/
(5mm)	848.8	GPRS	/	/	/	/	/	/
Body Back	824.2	GPRS	33.05	33.2	1.035	0.398	0.41	2#
Fold	836.6	GPRS	33.1	33.2	1.023	0.327	0.33	/
(5mm)	848.8	GPRS	33.06	33.2	1.033	0.233	0.24	/
			l		The data a			1 on 2024

The data above was performed on 2024/12/09.

Note:

- 1. When the 1-g SAR is \leq 0.8W/Kg, testing for other channels are optional.
- 2. The EUT transmit and receive through the same GSM antenna while testing SAR.
- 3. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
- 4. When the maximum output power variation across the required test channels is > 0.5 dB, instead of the middle channel, the highest output power channel must be used.

maximum active slots is 5, when perform the multiple sl	ous scan, 3DL+2UL is the worst case.

PCS 1900:

DUT	E	Tank	Max.	Max.		1g SAF	R (W/kg)	
EUT Position	Frequency (MHz)	Test Mode	Meas. Power (dBm)	Rated Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	1850.2	GSM	31.13	31.2	1.016	0.51	0.52	3#
Head Left Cheek	1880	GSM	30.87	31.2	1.079	0.478	0.52	/
	1909.8	GSM	30.48	31.2	1.18	0.318	0.38	/
	1850.2	GSM	/	/	/	/	/	/
Head Left Tilt	1880	GSM	30.87	31.2	1.079	0.095	0.10	/
	1909.8	GSM	/	/	/	/	/	/
	1850.2	GSM	/	/	/	/	/	/
Head Right Cheek	1880	GSM	30.87	31.2	1.079	0.459	0.50	/
	1909.8	GSM	/	/	/	/	/	/
	1850.2	GSM	/	/	/	/	/	/
Head Right Tilt	1880	GSM	30.87	31.2	1.079	0.158	0.17	/
	1909.8	GSM	/	/	/	/	/	/
Body Worn Front	1850.2	GSM	/	/	/	/	/	/
Unfold	1880	GSM	30.87	31.2	1.079	0.248	0.27	/
(5mm)	1909.8	GSM	/	/	/	/	/	/
Body Worn Back	1850.2	GSM	/	/	/	/	/	/
Unfold	1880	GSM	30.87	31.2	1.079	0.305	0.33	/
(5mm)	1909.8	GSM	/	/	/	/	/	/
Body Worn Front	1850.2	GSM	/	/	/	/	/	/
Fold	1880	GSM	30.87	31.2	1.079	0.07	0.08	/
(5mm)	1909.8	GSM	/	/	/	/	/	/
Body Worn Back	1850.2	GSM	/	/	/	/	/	/
Fold	1880	GSM	30.87	31.2	1.079	0.302	0.33	/
(5mm)	1909.8	GSM	/	/	/	/	/	/
Body Front	1850.2	GPRS	/	/	/	/	/	/
Unfold	1880	GPRS	27.06	27.6	1.132	0.274	0.31	/
(5mm)	1909.8	GPRS	/	/	/	/	/	/
Body Back	1850.2	GPRS	/	/	/	/	/	/
Unfold	1880	GPRS	27.06	27.6	1.132	0.318	0.36	/
(5mm)	1909.8	GPRS	/	/	/	/	/	/
Body Front	1850.2	GPRS	/	/	/	/	/	/
Fold	1880	GPRS	27.06	27.6	1.132	0.094	0.11	/
(5mm)	1909.8	GPRS	/	/	/	/	/	/
Body Back	1850.2	GPRS	27.52	27.6	1.019	0.432	0.44	4#
Fold	1880	GPRS	27.06	27.6	1.132	0.376	0.43	/
(5mm)	1909.8	GPRS	26.56	27.6	1.271	0.271	0.34	/

The data above was performed on 2024/12/09.

Note:

- When the 1-g SAR is ≤ 0.8W/Kg, testing for other channels are optional.
 The EUT transmit and receive through the same GSM antenna while testing SAR.
- 3. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

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- 4. When the maximum output power variation across the required test channels is > 0.5 dB, instead of the middle channel, the highest output power channel must be used.

 5. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots,
- the maximum active slots is 5, when perform the multiple slots scan, 2DL+3UL is the worst case.

WCDMA Band 2:

EUT	Frequency	Test	Max. Meas.	Max. Rated		1g SAR	R (W/kg)	
Position	(MHz)	Mode	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	1852.4	RMC	23.43	23.6	1.04	0.889	0.92	/
Head Left Cheek	1880	RMC	23.52	23.6	1.019	0.805	0.82	/
	1907.6	RMC	23.31	23.6	1.069	0.788	0.84	/
	1852.4	RMC	/	/	/	/	/	/
Head Left Tilt	1880	RMC	23.52	23.6	1.019	0.128	0.13	/
	1907.6	RMC	/	/	/	/	/	/
	1852.4	RMC	23.43	23.6	1.04	0.964	1	5#
Head Right Cheek	1880	RMC	23.52	23.6	1.019	0.874	0.89	/
	1907.6	RMC	23.31	23.6	1.069	0.815	0.87	/
	1852.4	RMC	/	/	/	/	/	/
Head Right Tilt	1880	RMC	23.52	23.6	1.019	0.37	0.38	/
	1907.6	RMC	/	/	/	/	/	/
Body Front	1852.4	RMC	/	/	/	/	/	/
Unfold	1880	RMC	23.52	23.6	1.019	0.315	0.32	/
(5mm)	1907.6	RMC	/	/	/	/	/	/
Body Back	1852.4	RMC	/	/	/	/	/	/
Unfold	1880	RMC	23.52	23.6	1.019	0.501	0.51	/
(5mm)	1907.6	RMC	/	/	/	/	/	/
Body Front	1852.4	RMC	/	/	/	/	/	/
Fold	1880	RMC	23.52	23.6	1.019	0.145	0.15	/
(5mm)	1907.6	RMC	/	/	/	/	/	/
Body Back	1852.4	RMC	23.43	23.6	1.04	0.482	0.5	/
Fold	1880	RMC	23.52	23.6	1.019	0.569	0.58	6#
(5mm)	1907.6	RMC	23.31	23.6	1.069	0.496	0.53	/

The data above was performed on 2024/12/13.

WCDMA Band 4:

EUT	Enggueney	Test	Max. Meas.	Max. Rated		1g SAR	R (W/kg)	
Position	Frequency (MHz)	Mode	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	1712.4	RMC	23.47	23.6	1.03	0.785	0.81	/
Head Left Cheek	1732.6	RMC	23.34	23.6	1.062	0.878	0.93	/
	1752.6	RMC	23.33	23.6	1.064	0.935	0.99	/
	1712.4	RMC	/	/	/	/	/	/
Head Left Tilt	1732.6	RMC	23.34	23.6	1.062	0.056	0.06	/
	1752.6	RMC	/	/	/	/	/	/
	1712.4	RMC	23.47	23.6	1.03	0.824	0.85	/
Head Right Cheek	1732.6	RMC	23.34	23.6	1.062	0.908	0.96	/
	1752.6	RMC	23.33	23.6	1.064	1.01	1.07	7#
	1712.4	RMC	/	/	/	/	/	/
Head Right Tilt	1732.6	RMC	23.34	23.6	1.062	0.295	0.31	/
	1752.6	RMC	/	/	/	/	/	/
Body Front	1712.4	RMC	/	/	/	/	/	/
Unfold	1732.6	RMC	23.34	23.6	1.062	0.168	0.18	/
(5mm)	1752.6	RMC	/	/	/	/	/	/
Body Back	1712.4	RMC	/	/	/	/	/	/
Unfold	1732.6	RMC	23.34	23.6	1.062	0.234	0.25	/
(5mm)	1752.6	RMC	/	/	/	/	/	/
Body Front	1712.4	RMC	/	/	/	/	/	/
Fold	1732.6	RMC	23.34	23.6	1.062	0.087	0.09	/
(5mm)	1752.6	RMC	/	/	/	/	/	/
Body Back	1712.4	RMC	23.47	23.6	1.03	0.575	0.59	8#
Fold	1732.6	RMC	23.34	23.6	1.062	0.33	0.35	/
(5mm)	1752.6	RMC	23.33	23.6	1.064	0.483	0.51	/

The data above was performed on 2024/12/12.

T. V. III.	_	.	Max.	Max.		1g SAR	R (W/kg)	
EUT Position	Frequency (MHz)	Test Mode	Meas. Power (dBm)	Rated Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	826.4	RMC	/	/	/	/	/	/
Head Left Cheek	836.6	RMC	23.7	24.1	1.096	0.092	0.10	/
	846.6	RMC	/	/	/	/	/	/
	826.4	RMC	/	/	/	/	/	/
Head Left Tilt	836.6	RMC	23.7	24.1	1.096	0.015	0.02	/
	846.6	RMC	/	/	/	/	/	/
	826.4	RMC	24	24.1	1.023	0.199	0.20	9#
Head Right Cheek	836.6	RMC	23.7	24.1	1.096	0.169	0.19	/
	846.6	RMC	23.75	24.1	1.084	0.165	0.18	/
	826.4	RMC	/	/	/	/	/	/
Head Right Tilt	836.6	RMC	23.7	24.1	1.096	0.098	0.11	/
	846.6	RMC	/	/	/	/	/	/
Body Front	826.4	RMC	/	/	/	/	/	/
Unfold	836.6	RMC	23.7	24.1	1.096	0.119	0.13	/
(5mm)	846.6	RMC	/	/	/	/	/	/
Body Back	826.4	RMC	24	24.1	1.023	0.223	0.23	10#
Unfold	836.6	RMC	23.7	24.1	1.096	0.193	0.21	/
(5mm)	846.6	RMC	23.75	24.1	1.084	0.111	0.12	/
Body Front	826.4	RMC	/	/	/	/	/	/
Fold	836.6	RMC	23.7	24.1	1.096	0.056	0.06	/
(5mm)	846.6	RMC	/	/	/	/	/	/
Body Back	826.4	RMC	/	/	/	/	/	/
Fold	836.6	RMC	23.7	24.1	1.096	0.186	0.20	/
(5mm)	846.6	RMC	/	/	/	/	/	/

The data above was performed on 2024/12/11.

Note:

- 1. When the 1-g SAR is ≤ 0.8 W/Kg, testing for other channels are optional.
- 2. The EUT transmit and receive through the same antenna while testing SAR.
- 3. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement Channel) Configured in Test Loop Model.
- 4. KDB 941225 D01-Body SAR is not required for HSDPA/HSUPA/DC-HSDPA/HSPA+ when the maximum average output of each RF channel is less than $\frac{1}{4}$ dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.
- 5. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

LTE Band 2:

DIE	E	D 1 141	TF4	Max.	Max.		1g SAR	R (W/kg)	
EUT Position	(MHz)	Bandwidth (MHz)	Test Mode	Meas. Power (dBm)	Rated Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	1860	20	1RB	24.42	24.5	1.019	0.937	0.95	/
	1880	20	1RB	24.37	24.5	1.03	0.892	0.92	/
Head Left Cheek	1900	20	1RB	24.44	24.5	1.014	0.82	0.83	/
	1880	20	50%RB	24.32	24.5	1.042	0.757	0.79	/
	1880	20	100%RB	23.99	24.5	1.125	0.813	0.91	/
	1860	20	1RB	/	/	/	/	/	/
II 1 I - 0 T:14	1880	20	1RB	24.37	24.5	1.03	0.262	0.27	/
Head Left Tilt	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	24.32	24.5	1.042	0.209	0.22	/
	1860	20	1RB	24.42	24.5	1.019	0.964	0.98	/
	1880	20	1RB	24.37	24.5	1.03	0.98	1.01	11#
Head Right Cheek	1900	20	1RB	24.44	24.5	1.014	0.903	0.92	/
	1860	20	50%RB	24.13	24.5	1.089	0.8	0.87	/
	1880	20	50%RB	24.32	24.5	1.042	0.813	0.85	/
	1900	20	50%RB	24.08	24.5	1.102	0.728	0.8	/
	1880	20	100%RB	23.99	24.5	1.125	0.762	0.86	/
	1860	20	1RB	/	/	/	/	/	/
Hand Dialet Tile	1880	20	1RB	24.37	24.5	1.03	0.318	0.33	/
Head Right Tilt	1900	20	1RB	/	/	/	/	/	/
	1880	20	50%RB	24.32	24.5	1.282	0.253	0.26	/
	1860	20	1RB	/	/	/	/	/	/
Body Front Unfold	1880	20	1RB	24.37	24.5	1.03	0.432	0.44	/
(5mm)	1900	20	1RB	/	/	/	/	/	/
,	1880	20	50%RB	24.32	24.5	1.282	0.34	0.35	/
	1860	20	1RB	/	/	/	/	/	/
Body Back Unfold	1880	20	1RB	24.37	24.5	1.03	0.547	0.56	/
(5mm)	1900	20	1RB	/	/	/	/	/	/
, ,	1880	20	50%RB	24.32	24.5	1.282	0.43	0.45	/
D 1 5	1860	20	1RB	/	/	/	/	/	/
Body Front Fold	1880	20	1RB	24.37	24.5	1.03	0.147	0.15	/
(5mm)	1900	20	1RB	/	/	/	/	/	/
, ,	1880	20	50%RB	24.32	24.5	1.042	0.12	0.13	/
·	1860	20	1RB	24.42	24.5	1.019	0.56	0.57	/
Body Back Fold	1880	20	1RB	24.37	24.5	1.03	0.61	0.63	12#
(5mm)	1900	20	1RB	24.44	24.5	1.014	0.488	0.49	/
` '	1880	20	50%RB	24.32	24.5	1.042	0.423	0.44	/

The data above was performed on 2024/12/13.

LTE Band 5:

DUT	E	D a	Т4	Max.	Max.		1g SAR	R (W/kg)	
EUT Position	(MHz)	Bandwidth (MHz)	Test Mode	Meas. Power (dBm)	Rated Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	829	10	1RB	24.15	24.3	1.035	0.261	0.27	13#
Head Left Cheek	836.5	10	1RB	23.91	24.3	1.094	0.243	0.27	/
Ticad Left Check	844	10	1RB	24.17	24.3	1.03	0.216	0.22	/
	836.5	10	50%RB	23.69	24.3	1.151	0.21	0.24	/
	829	10	1RB	/	/	/	/	/	/
Head Left Tilt	836.5	10	1RB	23.91	24.3	1.094	0.084	0.09	/
Head Left Till	844	10	1RB	/	/	/	/	/	/
	836.5	10	50%RB	23.69	24.3	1.151	0.06	0.07	/
	829	10	1RB	/	/	/	/	/	/
Haad Dight Chaals	836.5	10	1RB	23.91	24.3	1.094	0.221	0.24	/
Head Right Cheek	844	10	1RB	/	/	/	/	/	/
	836.5	10	50%RB	23.69	24.3	1.151	0.166	0.19	/
	829	10	1RB	/	/	/	/	/	/
Head Right Tilt	836.5	10	1RB	23.91	24.3	1.094	0.073	0.08	/
	844	10	1RB	/	/	/	/	/	/
	836.5	10	50%RB	23.69	24.3	1.151	0.053	0.06	/
	829	10	1RB	/	/	/	/	/	/
Body Front	836.5	10	1RB	23.91	24.3	1.094	0.142	0.16	/
Unfold (5mm)	844	10	1RB	/	/	/	/	/	/
(611111)	836.5	10	1RB / / / / 50%RB 23.69 24.3 1.151 0.166 0.19 1RB / / / / / 1RB 23.91 24.3 1.094 0.073 0.08 1RB / / / / / 50%RB 23.69 24.3 1.151 0.053 0.06 1RB / / / / / 1RB 23.91 24.3 1.094 0.142 0.16 1RB / / / / / 50%RB 23.69 24.3 1.151 0.091 0.10 1RB / / / / / 1RB / / <	0.10	/				
	829	10	1RB	/	/	/	/	/	/
Body Back	836.5	10	1RB	23.91	24.3	1.094	0.173	0.19	/
Unfold (5mm)	844	10	1RB	/	/	/	/	/	/
(0 11111)	836.5	10	50%RB	23.69	24.3	1.151	0.14	0.16	/
	829	10	1RB	/	/	/	/	/	/
Body Front	836.5	10	1RB	23.91	24.3	1.094	0.039	0.04	/
Fold (5mm)	844	10	1RB	/	/	/	/	/	/
(211111)	836.5	10	50%RB	23.69	24.3	1.151	0.037	0.04	/
	829	10	1RB	24.15	24.3	1.035	0.221	0.23	14#
Body Back	836.5	10	1RB	23.91	24.3	1.094	0.187	0.2	/
Fold (5mm)	844	10	1RB	24.17	24.3	1.03	0.176	0.18	/
(311111)	836.5	10	50%RB	23.69	24.3	1.151	0.153	0.18	/

The data above was performed on 2024/12/11.

LTE Band 7:

DUT	E	D d d 4 h	Т4	Max.	Max.		1g SAR	(W/kg)	
EUT Position	(MHz)	Bandwidth (MHz)	Test Mode	Meas. Power (dBm)	Rated Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	2510	20	1RB	/	/	/	/	/	/
Head Left Cheek	2535	20	1RB	22.74	23	1.062	0.535	0.57	/
Tiedu Lett Cheek	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	22.16	23	1.213	0.429	0.52	/
	2510	20	1RB	/	/	/	/	/	/
Hand Lat Tile	2535	20	1RB	22.74	23	1.062	0.181	0.19	/
Head Left Tilt	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	22.16	23	1.213	0.143	0.17	/
	2510	20	1RB	22.67	23	1.079	0.608	0.66	/
II. 1D: 1. Cl. 1	2535	20	1RB	22.74	23	1.062	0.671	0.71	/
Head Right Cheek	2560	20	1RB	22.69	23	1.074	0.719	0.77	15#
	2535	20	50%RB	22.16	23	1.213	0.531	0.64	/
	2510	20	1RB	/	/	/	/	/	/
	2535	20	1RB	22.74	23	1.062	0.208	0.22	/
Head Right Tilt	2560	20	1RB	/	/	/	/	/	/
	2535	20	50%RB	22.16	23	1.213	0.169	0.20	/
	2510	20	1RB	/	/	/	/	/	/
Body Front	2535	20	1RB	22.74	23	1.062	0.374	0.40	/
	2560	20	1RB	/	/	/	/	/	/
Body Front Unfold (5mm)	2535	20	50%RB	22.16	23	1.213	0.3	0.36	/
	2510	20	1RB	/	/	/	/	/	/
Body Back	2535	20	1RB	22.74	23	1.062	0.643	0.68	/
Unfold (5mm)	2560	20	1RB	/	/	/	/	/	/
(311111)	2535	20	50%RB	22.16	23	1.213	0.527	0.64	/
	2510	20	1RB	/	/	/	/	/	/
Body Front	2535	20	1RB	22.74	23	1.062	0.081	0.09	/
Fold	2560	20	1RB	/	/	/	/	/	/
(5mm)	2535	20	50%RB	22.16	23	1.213	0.063	0.08	/
	2510	20	1RB	22.67	23	1.079	0.646	0.7	/
Body Back	2535	20	1RB	22.74	23	1.062	0.672	0.71	/
Fold	2560	20	1RB	22.69	23	1.074	0.749	0.80	16#
(5mm)	2535	20	50%RB	22.16	23	1.213	0.654	0.79	/

The data above was performed on 2024/12/14.

LTE Band 12&17:

Position (MHz) (MHz) N Head Left Cheek 704 10 10 707.5 10 10 707.5 10 50 704 10 707.5 707.5 10 70 711 10 70 707.5 10 50	Test Mode 1RB 1RB 1RB 0%RB 1RB 1RB 1RB 1RB 1RB	Meas. Power (dBm) 24.43 24.46 24.31 23.92 / 24.46 / 23.92 /	Rated Power (dBm) 24.6 24.6 24.6 24.6 / 24.6 / 24.6 /	Scaled Factor 1.04 1.033 1.069 1.169 / 1.033 / 1.169	Meas. SAR 0.441 0.503 0.56 0.455 / 0.299 / 0.277	Scaled SAR 0.46 0.52 0.6 0.53 / 0.31 /	/ / 17# / / / / / /
Head Left Cheek 707.5 10 711 10 707.5 10 50 704 10 707.5 10 711 10 707.5 10 50	1RB 1RB 0%RB 1RB 1RB 1RB 1RB 1RB	24.46 24.31 23.92 / 24.46 / 23.92 /	24.6 24.6 24.6 / 24.6 / 24.6	1.033 1.069 1.169 / 1.033 / 1.169	0.503 0.56 0.455 / 0.299	0.52 0.6 0.53 / 0.31	/ 17# / /
Head Left Cheek 711 10 707.5 10 50 704 10 707.5 10 711 10 707.5 10 707.5 10 50 50	1RB 0%RB 1RB 1RB 1RB 0%RB 1RB	24.31 23.92 / 24.46 / 23.92 /	24.6 24.6 / 24.6 / 24.6	1.069 1.169 / 1.033 / 1.169	0.56 0.455 / 0.299 /	0.6 0.53 / 0.31 /	/
711 10 50 707.5 10 50 704 10 707.5 10 707.5 10 707.5 10 707.5 10 50	0%RB 1RB 1RB 1RB 0%RB 1RB	23.92 / 24.46 / 23.92 /	24.6 / 24.6 / 24.6	1.169 / 1.033 / 1.169	0.455 / 0.299 /	0.53 / 0.31 /	/
Head Left Tilt 704 10	1RB 1RB 1RB 0%RB 1RB 1RB	/ 24.46 / 23.92 /	/ 24.6 / 24.6	/ 1.033 / 1.169	/ 0.299 /	0.31	/
Head Left Tilt 707.5 10 711 10 707.5 10 50	1RB 1RB 0%RB 1RB	24.46 / 23.92 /	24.6	1.033	0.299	0.31	/
Head Left Tilt 711 10 50	1RB 0%RB 1RB 1RB	/ 23.92 /	/ 24.6	1.169	/	/	/
711 10 50 707.5 10 50	0%RB 1RB 1RB	23.92	24.6	1.169			/
	1RB 1RB	/			0.277	0.22	
	1RB	,	/			0.32	/
704 10		24.46	/	/	/	/	/
707.5 10	1 D D	24.46	24.6	1.033	0.498	0.51	/
Head Right Cheek 711 10	1RB	/	/	/	/	/	/
707.5 10 50	0%RB	23.92	24.6	1.169	0.494	0.58	/
704 10	1RB	/	/	/	/	/	/
707.5	1RB	24.46	24.6	1.033	0.165	0.17	/
Head Right Tilt 711 10	1RB	/	/	/	/	/	/
707.5 10 50	0%RB	23.92	24.6	1.169	0.16	0.19	/
704 10	1RB	/	/	/	/	/	/
Body Front 707.5 10	1RB	24.46	24.6	1.033	0.455	0.47	/
Unfold (5mm) 711 10	1RB	/	/	/	/	/	/
	0%RB	23.92	24.6	1.169	0.388	0.45	/
704 10	1RB	24.43	24.6	1.04	0.53	0.55	/
Body Back 707.5 10	1RB	24.46	24.6	1.033	0.544	0.56	/
Unfold (5mm) 711 10	1RB	24.31	24.6	1.069	0.594	0.63	18#
	0%RB	23.92	24.6	1.169	0.464	0.54	/
704 10	1RB	/	/	/	/	/	/
Body Front 707.5 10	1RB	24.46	24.6	1.033	0.06	0.06	/
Fold (5mm) 711 10	1RB	/	/	/	/	/	/
(311111)	0%RB	23.92	24.6	1.169	0.062	0.07	/
	1RB	/	/	/	/	/	/
Body Back 707.5 10	1RB	24.46	24.6	1.033	0.444	0.46	/
Fold (5mm) 711 10	1RB	/	/	/	/	/	/
	0%RB	23.92	24.6	1.169	0.394	0.46	/

The data above was performed on 2024/12/10.

Note: The E-UTRA Operating Band 17 is a subset of band 12, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.

LTE Band 66&4:

LTE Danu 00&4;				Max.	Max.		1g SAR	R (W/kg)	
EUT Position	Frequency (MHz)	Bandwidth (MHz)	Test Mode	Meas. Power (dBm)	Rated Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	1720	20	1RB	23.97	24.4	1.104	1.02	1.13	/
	1745	20	1RB	24.24	24.4	1.038	1.02	1.06	/
	1770	20	1RB	24.02	24.4	1.091	1.08	1.18	/
Head Left Cheek	1720	20	50%RB	23.47	24.4	1.239	0.827	1.02	/
	1745	20	50%RB	23.56	24.4	1.213	0.88	1.07	/
	1770	20	50%RB	23.37	24.4	1.268	0.875	1.11	/
	1745	20	100%RB	23.32	24.4	1.282	0.903	1.16	/
	1720	20	1RB	/	/	/	/	/	/
II II OT'I	1745	20	1RB	24.24	24.4	1.038	0.205	0.21	/
Head Left Tilt	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.56	24.4	1.213	0.163	0.2	/
	1720	20	1RB	23.97	24.4	1.104	1.03	1.14	/
	1745	20	1RB	24.24	24.4	1.038	1.16	1.2	19#
	1770	20	1RB	24.02	24.4	1.091	1.09	1.19	/
Head Right Cheek	1720	20	50%RB	23.47	24.4	1.239	0.838	1.04	/
	1745	20	50%RB	23.56	24.4	1.213	0.948	1.15	/
	1770	20	50%RB	23.37	24.4	1.268	0.894	1.13	/
	1745	20	100%RB	23.32	24.4	1.282	0.81	1.04	/
	1720	20	1RB	/	/	/	/	/	/
II 4 Di -1.4 Til	1745	20	1RB	24.24	24.4	1.038	0.289	0.30	/
Head Right Tilt	1770	20	1RB	/	/	/	/	/	/
	1745	20	50%RB	23.56	24.4	1.213	0.245	0.30	/
	1720	20	1RB	/	/	/	/	/	/
Body Front Unfold	1745	20	1RB	24.24	24.4	1.038	0.452	0.47	/
(5mm)	1770	20	1RB	/	/	/	/	/	/
(0)	1745	20	50%RB	23.56	24.4	1.213	0.382	0.46	/
	1720	20	1RB	/	/	/	/	/	/
Body Back Unfold	1745	20	1RB	24.24	24.4	1.038	0.526	0.55	/
(5mm)	1770	20	1RB	/	/	/	/	/	/
,	1745	20	50%RB	23.56	24.4	1.213	0.447	0.54	/
	1720	20	1RB	/	/	/	/	/	/
Body Front Fold	1745	20	1RB	24.24	24.4	1.038	0.2	0.21	/
(5mm)	1770	20	1RB	/	/	/	/	/	/
(=====)	1745	20	50%RB	23.56	24.4	1.213	0.161	0.20	/
	1720	20	1RB	23.97	24.4	1.104	0.611	0.67	/
Body Back Fold	1745	20	1RB	24.24	24.4	1.038	0.792	0.82	20#
(5mm)	1770	20	1RB	24.02	24.4	1.091	0.581	0.63	/
()	1745	20	50%RB	23.56	24.4	1.213	0.521	0.63	/

The data above was performed on 2024/12/12.

Note: The E-UTRA Operating Band 4 is a subset of band 66, and they are same in modulation type and rated output power, therefore, they were considered as one frequency band during SAR measurement.

LTE Band 71:

DUT	E	D d d 4 l .	Т4	Max.	Max.		1g SAR	(W/kg)	
EUT Position	(MHz)	Bandwidth (MHz)	Test Mode	Meas. Power (dBm)	Rated Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	673	20	1RB	/	/	/	/	/	/
Head Left Cheek	680.5	20	1RB	24.56	24.7	1.033	0.298	0.31	/
Head Left Cheek	688	20	1RB	/	/	/	/	/	/
	680.5	20	50%RB	23.88	24.7	1.208	0.238	0.29	/
	673	20	1RB	/	/	/	/	/	/
II 1 I . 0 Til	680.5	20	1RB	24.56	24.7	1.033	0.118	0.12	/
Head Left Tilt	688	20	1RB	/	/	/	/	/	/
	680.5	20	50%RB	23.88	24.7	1.208	0.094	0.11	/
	673	20	1RB	24.42	24.7	1.067	0.252	0.27	/
Head Dight Charle	680.5	20	1RB	24.56	24.7	1.033	0.334	0.35	/
Head Right Cheek	688	20	1RB	24.45	24.7	1.059	0.335	0.35	21#
	680.5	20	50%RB	23.88	24.7	1.208	0.29	0.35	/
	673	20	1RB	/	/	/	/	/	/
H 1D: 1, Til	680.5	20	1RB	24.56	24.7	1.033	0.103	0.11	/
Head Right Tilt	688	20	1RB	/	/	/	/	/	/
	680.5	20	50%RB	23.88	24.7	1.208	0.088	0.11	/
	673	20	1RB	/	/	/	/	/	/
Body Front	680.5	20	1RB	24.56	24.7	1.033	0.39	0.40	/
Unfold (5mm)	688	20	1RB	/	/	/	/	/	/
(Ollini)	680.5	20	50%RB	23.88	24.7	1.208	0.339	0.41	/
	673	20	1RB	/	/	/	/	/	/
Body Back	680.5	20	1RB	24.56	24.7	1.033	0.402	0.42	/
Unfold (5mm)	688	20	1RB	/	/	/	/	/	/
(611111)	680.5	20	50%RB	23.88	24.7	1.208	0.349	0.42	/
	673	20	1RB	/	/	/	/	/	/
Body Front	680.5	20	1RB	24.56	24.7	1.033	0.027	0.03	/
Fold (5mm)	688	20	1RB	/	/	/	/	/	/
(311111)	680.5	20	50%RB	23.88	24.7	1.208	0.022	0.03	/
	673	20	1RB	24.42	24.7	1.067	0.364	0.39	/
Body Back	680.5	20	1RB	24.56	24.7	1.033	0.436	0.45	/
Fold (5mm)	688	20	1RB	24.45	24.7	1.059	0.497	0.53	22#
(311111)	680.5	20	50%RB	23.88	24.7	1.208	0.283	0.34	/

The data above was performed on 2024/12/10.

Note:

- 1. When the 1-g SAR is ≤ 0.8 W/Kg, testing for other channels are optional.
- 2. SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02.
- 3. KDB941225D05-SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is > 0.5 dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg
- 4. KDB941225D05-For QPSK with 100% RB allocation, when the reported SAR measured for the Highest output power channel is <1.45 W/kg, tests for the remaining required test channels are optional.
- 5.KDB941225D05- 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 \leq 0.8 W/kg.

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6. KDB941225D05- 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 among RB offset the upper edge, middle and lower edge of each required test channel. 7. KDB941225D05- other channel bandwidths SAR test is required when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > 0.5 dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

10. MEASUREMENT VARIABILITY

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results

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- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

Note: 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.

The Highest Measured SAR Configuration in Each Frequency Band

Head

SAR probe	Erraguanari Dand	Erog (MHg)	EUT Dogition	Meas. SA	Largest to	
calibration point	Frequency Band	Freq.(MHz)	EUT Position	Original	Repeated	Smallest SAR Ratio
1750MHz (1650-1850MHz)	LTE Band 66&4	1745	Head Right Cheek	1.16	1.09	1.06
1900MHz (1850-2000MHz)	LTE Band 2	1880	Head Right Cheek	0.98	0.947	1.03

Body

SAR probe	Enganon on Dond	Eno a (MII-)	EUT Docition	Meas. SA	Largest to Smallest	
calibration point	Frequency Band	Freq.(MHz)	EUT Position	Original	Repeated	SAR Ratio
/	/	/	/	/	/	/

Note:

- 1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20.
- 2. The measured SAR results **do not** have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.
- 3. SAR measurement variability must be assessed for each frequency band, which is determined by the **SAR probe calibration point and tissue-equivalent medium** used for the device measurements.

11. DUT HOLDER PERTURBATIONS

In accordance with TCB workshop October 2016:

1) SAR perturbation due to test device holders, depending on antenna locations, buttons locations on phones or device, form factor (e.g. dongles etc.), the measured SAR could be influenced by the relative positions of the test device and its holder

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- 2) SAR measurement standards have included protocols to evaluate this with a flat phantom, with and without the device holder
- 3) When the highest reported SAR of an antenna is > 1.2 W/kg, holder perturbation verification is required for each antenna, using the highest SAR configuration among all applicable frequency bands in the same exact device and holder positions used for head and body SAR measurements; i.e. same device/button locations in the holder

Per IEEE 1528: 2013/Annex E/E.4.1.1: Device holder perturbation tolerance for a specific test device: Type B

When it is unknown if a device holder perturbs the fields of a test device, the SAR uncertainty shall be

assessed with a flat phantom (see Clause 5) by comparing the SAR with and without the device holder

according to the following tests:

The SAR tolerance for device holder disturbance is computed using Equation (E.21) and entered in the

corresponding row of the appropriate uncertainty table with an assumed rectangular probability distribution and $vi = \infty$ degrees of freedom:

$$SAR_{\text{tolerance}} [\%] = 100 \times \left(\frac{SAR_{\text{w/holder}} - SAR_{\text{w/o holder}}}{SAR_{\text{w/o holder}}} \right)$$
(E.21)

The Highest Measured SAR Configuration among all applicable Frequency Band

Engage on Dand	Eng (MII-)	EUT Dogition	Meas. S	SAR (W/kg)	The Device holder	
Frequency Band	Freq.(MHz)	EUT Position	With holder	Without holder	perturbation uncertainty	
/	/ /		/	/	/	

12. SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

12.1 Simultaneous Transmission:

Description of Simultaneous Transmit Capabilities						
Transmitter Combination	Simultaneous?	Hotspot?				
WWAN(GSM/WCDMA/LTE) Antenna + Bluetooth	V	×				

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12.2 Simultaneous SAR test exclusion considerations:

Mode(SAR1+SAR2)	Position	Reported S	SAR(W/kg)	ΣSAR <
inoue(exiter strice)	1 05141011	SAR1	SAR2	1.6W/kg
	Head Left Cheek	1.18	0.11	1.29
	Head Left Tilt	0.32	0.11	0.43
	Head Right Cheek	1.20	0.11	1.31
MAY WWAN(CSM/WCDMA/LTE) Divisto of h	Head Right Tilt	0.38	0.11	0.49
MAX.WWAN(GSM/WCDMA/LTE)+Bluetooth	Body Worn Front	0.27	0.11	0.38
	Body Worn Back	0.33	0.11	0.44
	Body Front	0.47	0.11	0.58
	Body Back	0.82	0.11	0.93

Conclusion:

Sum of SAR: Σ SAR \leq 1.6 W/kg therefore simultaneous transmission SAR with Volume Scans is **not required**.

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APPENDIX A - MEASUREMENT UNCERTAINTY

The uncertainty budget has been determined for the measurement system and is given in the following Table.

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Measurement uncertainty evaluation for IEEE1528-2013 SAR test

TVICUSUI	ement uncerta	Inty Evaluation		1320-201	J SAK IC		<u> </u>
Uncertainty component	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
		Measurement	system				
Probe calibration(k=1)	6.55	N	1	1	1	6.6	6.6
Axial isotropy	4.7	R	√3	√0.5	√0.5	1.9	1.9
Hemispherical isotropy	9.6	R	√3	√0.5	√0.5	3.9	3.9
Boundary effect	1.0	R	√3	1	1	0.6	0.6
Linearity	4.7	R	√3	1	1	2.7	2.7
System detection limits	1.0	R	√3	1	1	0.6	0.6
Modulation response	0.0	R	√3	1	1	0.0	0.0
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	√3	1	1	0.0	0.0
Integration time	0.0	R	√3	1	1	0.0	0.0
RF ambient conditions-noise	1.0	R	√3	1	1	0.6	0.6
RF ambient conditions-reflections	1.0	R	√3	1	1	0.6	0.6
Probe positioner mech. tolerance	0.8	R	√3	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	2.0	R	√3	1	1	1.2	1.2
		Test sample r	elated				
Test sample positioning	3.3	N	1	1	1	3.3	3.3
Device holder uncertainty	4.7	N	1	1	1	4.7	4.7
Output power variation – SAR draft measurement	5.0	R	√3	1	1	2.9	2.9
SAR scaling	2.8	R	√3	1	1	1.6	1.6
	Phan	tom and tissue	paramete	rs			
Phantom shell uncertainty – shape, thickness and permittivity	4.0	R	√3	1	1	2.3	2.3
Uncertainty in SAR correction for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.9	1.6
Liquid conductivity meas.	2.5	N	1	0.78	0.71	2.0	1.8
Liquid permittivity meas.	2.5	N	1	0.23	0.26	0.6	0.7
Liquid conductivity – temperature uncertainty	1.7	R	√3	0.78	0.71	0.8	0.7
Liquid permittivity – temperature uncertainty	0.3	R	√3	0.23	0.26	0.0	0.0
Combined standard uncertainty		RSS				12.1	12.0
Expanded uncertainty (95 % confidence interval)		k=2				24.2	24.0

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Measurement uncertainty evaluation for IEC62209-2 SAR test

	Tolerance/	tainty evaluati	011 101 1130			Standard	Standard
Source of uncertainty	Uncertainty value ± %	Probability Distribution	Divisor	ci (1 g)	ci (10 g)	uncertainty ± %, (1 g)	uncertainty ± %, (10 g)
		Measureme	nt system				
Probe calibration	6.55	N	1	1	1	6.6	6.6
Isotropy	4.7	R	√3	1	1	2.7	2.7
Linearity	4.7	R	√3	1	1	2.7	2.7
Probe modulation response	0.0	R	√3	1	1	0.0	0.0
Detection limits	1.0	R	√3	1	1	0.6	0.6
Boundary effect	1.0	R	√3	1	1	0.6	0.6
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	√3	1	1	0.0	0.0
Integration time	0.0	R	√3	1	1	0.0	0.0
RF ambient conditions – noise	1.0	R	√3	1	1	0.6	0.6
RF ambient conditions – reflections	1.0	R	√3	1	1	0.6	0.6
Probe positioner mech. restrictions	0.8	R	√3	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9
Post-processing	2.0	R	√3	1	1	1.2	1.2
		Test sampl	e related				
Device holder uncertainty	4.7	Ν	1	1	1	4.7	4.7
Test sample positioning	3.3	N	1	1	1	3.3	3.3
Power scaling	4.5	R	√3	1	1	2.6	2.6
Drift of output power (measured SAR drift)	5.0	R	√3	1	1	2.9	2.9
	 	Phantom a	nd set-up	1	i	1	
Phantom uncertainty (shape and thickness tolerances)	4.0	R	√3	1	1	2.3	2.3
Algorithm for correcting SAR for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.9	1.6
Liquid conductivity (meas.)	2.5	N	1	0.78	0.71	2.0	1.8
Liquid permittivity (meas.)	2.5	N	1	0.23	0.26	0.6	0.7
Liquid conductivity – temperature uncertainty	1.7	R	√3	0.78	0.71	0.8	0.7
Liquid permittivity – temperature uncertainty	0.3	R	√3	0.23	0.26	0.0	0.0
Combined standard uncertainty		RSS				11.8	11.7
Expanded uncertainty (95 % confidence interval)						23.6	23.4

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APPENDIX B - SAR PLOTS	
Please refer to the attachment.	
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APPENDIX C - EUT TEST POSITION PHOTOS		
Please refer to the attachment.		
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APPENDIX D - PROBE CALIBRATION CERTIFICATES		
Please refer to the attachment.		

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APPENDIX E - DIPOLE CALIBRATION CERTIFICATES

Please refer to the attachment.

==== END OF REPORT **====**

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