



TEST REPORT

Applicant Name: HONG KONG IPRO TECHNOLOGY CO., LIMITED

Address: 12/F,3 LOCKHART ROAD, WANCHAI, HK

Report Number: CR21100102-SA FCC ID: PQ4IPROY100

Test Standard (s)

FCC Part 2.1093

Sample Description

Product Type: Smart Phone

Model No.: Y100

Date Received: 2021/11/01 Date of Test: 2021/11/24 Report Date: 2021/11/26

Test Result: Pass*

Prepared and Checked By:

runceli

Lance Li

EMC Engineer

Approved By:

EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk " \star ".

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^{*} In the configuration tested, the EUT complied with the standards above.

Attestation of Test Results							
	EUT Description	Smart Phone					
EUT	Tested Model	Y100					
Information	FCC ID	PQ4IPROY100					
	Serial Number	CR21100102-SA-S1					
MOI	DE	Max. SAR Level(s) Reported(W/kg)	Limit (W/kg)				
CCM OFO	1g Head SAR	0.15					
GSM 850	1g Body SAR	0.33	1				
DCC 1000	1g Head SAR	0.40	1				
PCS 1900	1g Body SAR	0.69					
WCDMA Dand 2	1g Head SAR	0.32					
WCDMA Band 2	1g Body SAR	0.59	1.6				
WCDMA Band 5	1g Head SAR	0.12					
WCDMA Dailu 3	1g Body SAR	0.26					
	1g Head SAR	0.80					
Simultaneous	1g Body SAR	0.88					
	1g Body SAR	0.89 (Hotspot)					
	FCC 47 CFR part 2. Radiofrequency radia	1093 tion exposure evaluation: portable devices					
	RF Exposure Proced	lures: TCB Workshop April 2019					
	Practice for Determining the Peak Spatial-Average Sp man Head from Wireless Communications Devices: M	ecific Absorption leasurement					
Applicable Standards	IEC 62209-1:2016 Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz)						
	KDB 648474 D04 Ha KDB 865664 D01 SA KDB 865664 D02 RF	R Measurement 100 MHz to 6 GHz v01r04 Exposure Reporting v01r02 SAR Procedures v03r01					

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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
0	CR21100102-SA	Original Report	2021-11-26

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EUT DESCRIPTION

This report has been prepared on behalf of *HONG KONG IPRO TECHNOLOGY CO.,LIMITED* and their product *Smart Phone*, Model: *Y100*, FCC ID: *PQ4IPROY100* or the EUT (Equipment under Test) as referred to in the rest of this report.

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Technical Specification

Device Type:	Portable
Exposure Category:	Population / Uncontrolled
Antenna Type(s):	Internal Antenna
DTM Type:	Class B
Multi-slot Class:	GPRS(Class 12); EDGE(Class 12)
Body-Worn Accessories:	None
Face-Head Accessories:	None
	GSM Voice, GPRS/EDGE Data,
Operation Mode:	WCDMA(R99 (Voice+Data), HSDPA/HSUPA/DC-HSDPA/HSPA+),
	Wi-Fi and Bluetooth
Frequency Band:	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 5: 824-849 MHz(TX); 869-894 MHz(RX) Wi-Fi 2.4G: 2412 -2462 MHz Bluetooth: 2402 -2480 MHz
Conducted RF Power:	GSM 850:33.40 dBm; PCS 1900: 30.97dBm; WCDMA Band 2:24.03 dBm; WCDMA Band 5:24.12 dBm; Wi-Fi 2.4G: 9.78dBm; Bluetooth(BDR/EDR): 9.67dBm; BLE: 0.71 dBm.
Power Source:	3.8 VDC From Rechargeable Battery
Normal Operation:	Head and Body-worn

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.

CE:

The order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 2 mW/g as recommended by EN62209-1 for an uncontrolled environment. According to the Standard, 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.

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 Europe is 2 mW/g average over 10 gram of tissue mass.

The test configurations were laid out on a specially designed test fixture to ensure the reproducibility of measurements. Each configuration was scanned for SAR. Analysis of each scan was carried out to characterize the above effects in the device.

SAR Limits

FCC Limit(1g Tissue)

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	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			

CE Limit(10g Tissue)

	SAR (W/kg)				
EXPOSURE LIMITS	(General Population / Uncontrolled Exposure	(Occupational / Controlled Exposure			
	Environment)	Environment)			
Spatial Average (averaged over the whole body)	0.08	0.4			
Spatial Peak (averaged over any 10 g of tissue)	2.0	10			
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) & 2 W/kg (CE) applied to the EUT.

FACILITIES

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358,the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01

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Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A.

The test site has been registered with ISED Canada under ISED Canada Registration Number CN0016.

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DESCRIPTION OF TEST SYSTEM

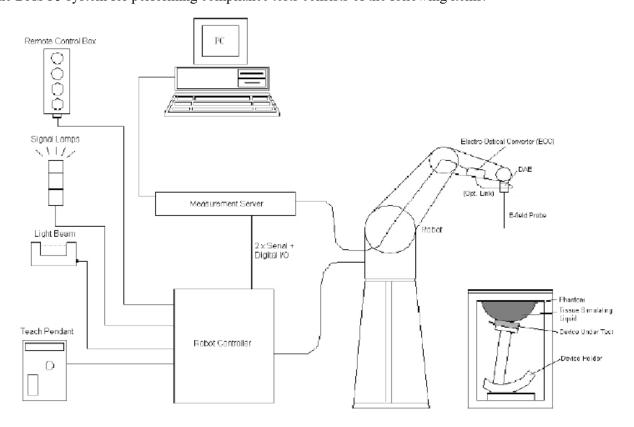
These measurements were performed with the automated near-field scanning system DASY5 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:

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DASY5 System Description

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



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- A standard high precision 6-axis robot (Staubli TX=RX family) 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.

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- 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,
- 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 400 MHz Intel ULV Celeron, 128 MB chip-disk and 128 MB 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 DASY6 I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all real-time data evaluations of field measurements and surface detection, controls robot movements, and handles safety operations. 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 pinout, and therefore only devices provided by SPEAG can be connected. Connection of 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.

EX3DV4 E-Field Probes

Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	\pm 0.3 dB in TSL (rotation around probe axis) \pm 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 $\mu W/g$ to $>$ 100 mW/g Linearity: \pm 0.2 dB (noise: typically $<$ 1 $\mu W/g$)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI

SAM Twin Phantom

The SAM Twin Phantom (shown in front of DASY5) is a fiberglass shell phantom with shell thickness 2 mm, except in the ear region where the thickness is increased to 6 mm..

When the phantom is mounted inside allocated slot of the DASY5 platform, phantom reference points can be taught directly in the DASY5 V5.2 software. When the DASY5 platform is used to mount the

Phantom, some of the phantom teaching points cannot be reached by the robot in DASY5 V5.2. A special tool called P1a-P2aX-Former is provided to transform two of the three points, P1 and P2, to reachable locations. To use these new teaching points, a revised phantom configuration file is required.

In addition to our standard broadband liquids, the phantom can be used with the following tissue simulating liquids:

Sugar-water-based liquids can be left permanently in the phantom. Always cover the liquid when the system is not in use to prevent changes in liquid parameters due to water evaporation.



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DGBE-based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom, and the phantom should be dried when the system is not in use (desirable at least once a week).

Do not use other organic solvents without previously testing the solvent resistivity of the phantom. Approximately 25 liters of liquid is required to fill the SAM Twin phantom.

Calibration Frequency Points for EX3DV4 E-Field Probes SN: 7522 Calibrated: 2021/04/19

Calibration Frequency	Frequency	Frequency Range(MHz)		Conversion Factor			
Point(MHz)	From	To	X	Y	Z		
750 Head	650	850	9.93	9.93	9.93		
900 Head	850	1000	9.39	9.39	9.39		
1750 Head	1650	1850	8.16	8.16	8.16		
1900 Head	1850	2000	7.94	7.94	7.94		
2300 Head	2200	2400	7.61	7.61	7.61		
2450 Head	2400	2550	7.25	7.25	7.25		
2600 Head	2550	2700	7.05	7.05	7.05		

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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 10g cube is 21.5mm.

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

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

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Frequency	Relative permittivity	Conductivity (a)
MHz	$arepsilon_{ m r}$	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.

EQUIPMENT LIST AND CALIBRATION

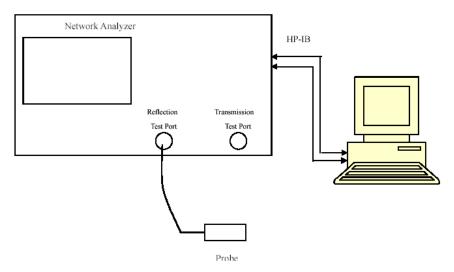
Equipments List & Calibration Information

Equipment Model		S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52 52.10.4	N/A	NCR	NCR
DASY5 Measurement Server	DASY5 6.0.31	N/A	NCR	NCR
Data Acquisition Electronics	DAE4	1354	2021/9/1	2022/8/31
E-Field Probe	EX3DV4	7522	2021/4/19	2022/4/18
Mounting Device	MD4HHTV5	SD 000 H01 KA	NCR	NCR
SAM Twin Phantom	SAM-Twin V5.0	1744	NCR	NCR
Dipole, 750MHz	D750V3	1194	2020/1/13	2023/1/12
Dipole, 1900MHz	D1900V2	5d231	2020/1/14	2023/1/13
Simulated Tissue Liquid Head(500-9500MHz)	HBBL600-10000V6	180622-2	Each Time	/
Network Analyzer	8753D	3410A08288	2021/7/07	2022/7/06
Dielectric Assessment Kit	DAK-3.5	1248	NCR	NCR
Signal Generator	SMB100A	108362	2020/12/24	2021/12/23
USB wideband power sensor	U2021XA	MY52350001	2021/7/31	2022/7/30
Power Amplifier	CBA 1G-070	T44328	2020/12/24	2021/12/23
Linear Power Amplifier	AS0860-40/45	1060913	2020/12/24	2021/12/23
Directional Coupler	4223-20	3.113.277	2020/12/25	2021/12/24
6dB Attenuator	8493B 6dB Attenuator	2708A 04769	2020/12/25	2021/12/24
Wideband Radio Communication Tester	CMW500	143458	2021/03/03	2022/03/02

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SAR MEASUREMENT SYSTEM VERIFICATION

Liquid Verification



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Liquid Verification Setup Block Diagram

Liquid Verification Results

Frequency Liquid Type		_	Liquid Parameter		Target Value		lta ⁄6)	Tolerance
(MHz)	Liquid Type	ε _r	O' (S/m)	$\epsilon_{ m r}$	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔΟ (S/m)	(%)
750	Simulated Tissue Liquid Head	42.682	0.874	41.9	0.89	1.87	-1.8	±10
824.2	Simulated Tissue Liquid Head	42.508	0.886	41.55	0.9	2.31	-1.56	±10
826.4	Simulated Tissue Liquid Head	42.154	0.892	41.54	0.9	1.48	-0.89	±10
836.6	Simulated Tissue Liquid Head	41.955	0.897	41.5	0.9	1.1	-0.33	±10
846.6	Simulated Tissue Liquid Head	41.503	0.906	41.5	0.91	0.01	-0.44	±10
848.8	Simulated Tissue Liquid Head	41.284	0.913	41.5	0.91	-0.52	0.33	±10

^{*}Liquid Verification above was performed on 2021/11/24.

T.		Liq Para	uid meter	Target Value		Delta (%)		
Frequency (MHz)	Liquid Type	£ _r	O' (S/ m)	$\epsilon_{ m r}$	O' (S/ m)	$\Delta arepsilon_{ m r}$	ΔO	Tolerance (%)
1850.2	Simulated Tissue Liquid Head	40.844	1.333	40	1.4	2.11	-4.79	±10
1852.4	Simulated Tissue Liquid Head	40.725	1.355	40	1.4	1.81	-3.21	±10
1860	Simulated Tissue Liquid Head	40.647	1.359	40	1.4	1.62	-2.93	±10
1880	Simulated Tissue Liquid Head	40.476	1.390	40	1.4	1.19	-0.71	±10
1900	Simulated Tissue Liquid Head	39.773	1.441	40	1.4	-0.57	2.93	±10
1907.6	Simulated Tissue Liquid Head	39.769	1.445	40	1.4	-0.58	3.21	±10
1909.8	Simulated Tissue Liquid Head	39.76	1.461	40	1.4	-0.6	4.36	±10

^{*}Liquid Verification was performed on 2021/11/24.

System Accuracy Verification

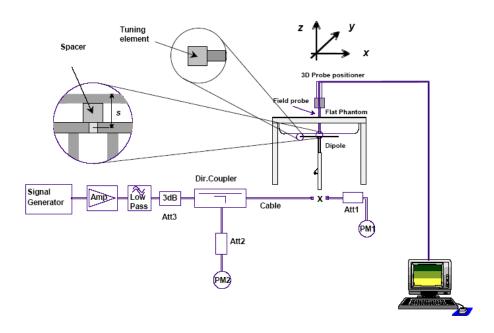
Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

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

- a) $s = 15 \text{ mm} \pm 0.2 \text{ mm for } 300 \text{ MHz} \le f \le 1000 \text{ MHz};$
- b) $s = 10 \text{ mm} \pm 0.2 \text{ mm} \text{ for } 1000 \text{ MHz} < f \le 3000 \text{ MHz};$
- c) $s = 10 \text{ mm} \pm 0.2 \text{ mm}$ for $3~000 \text{ MHz} < f \le 6~000 \text{ MHz}$.

System Verification Setup Block Diagram



System Accuracy Check Results

Date	Frequency Band	Liquid Type	Input Power (mW)	:	sured SAR //kg)	Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)
2021/11/24	750 MHz	Head	100	1g	0.842	8.42	8.55	-1.52	±10
2021/11/24	1900 MHz	Head	100	1g	4.12	41.2	40.3	2.23	±10

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

SAR SYSTEM VALIDATION DATA

System Performance 750 MHz

DUT: D750V3; Type: 750 MHz; Serial: 1194

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: f = 750 MHz; $\sigma = 0.874$ S/m; $\varepsilon_r = 42.682$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7522; ConvF(9.93, 9.93, 9.93) @ 750 MHz; Calibrated: 2021/4/19

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• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn1354; Calibrated: 2021/9/1

• Phantom: Head model; Type: QD000P40CC; Serial: TP:1744

• Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (41x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

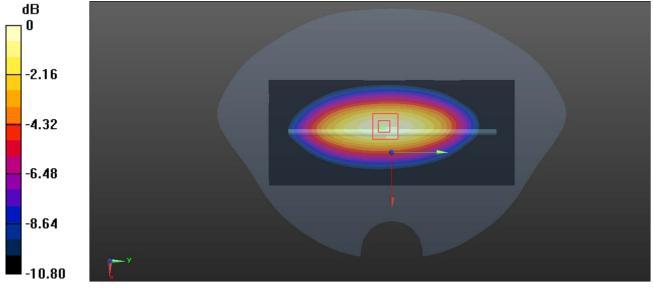
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 31.48 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.842 W/kg; SAR(10 g) = 0.529 W/kg

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



0 dB = 1.13 W/kg = 0.53 dBW/kg

System Performance 1900MHz

DUT: D1900V2; Type: 1900 MHz; Serial: 5d231

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz; $\sigma = 1.441$ S/m; $\epsilon_r = 39.773$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7522; ConvF(7.94, 7.94, 7.94) @ 1900 MHz; Calibrated: 2021/4/19

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• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn1354; Calibrated: 2021/9/1

• Phantom: Head model; Type: QD000P40CC; Serial: TP:1744

• Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (41x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 6.36 W/kg

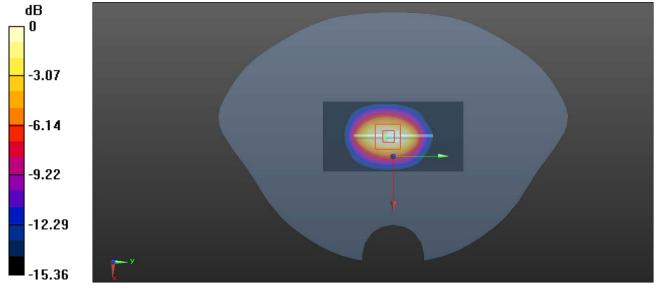
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 56.45 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 7.24 W/kg

SAR(1 g) = 4.12 W/kg; SAR(10 g) = 2.08 W/kg

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



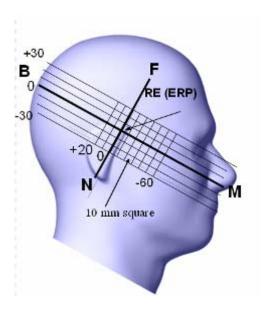
0 dB = 6.25 W/kg = 7.96 dBW/kg

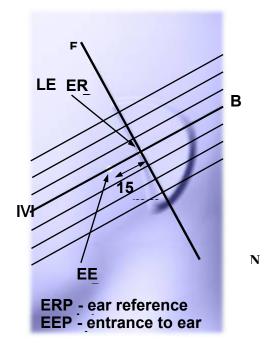
EUT TEST STRATEGY AND METHODOLOGY

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 ½ 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:





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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.

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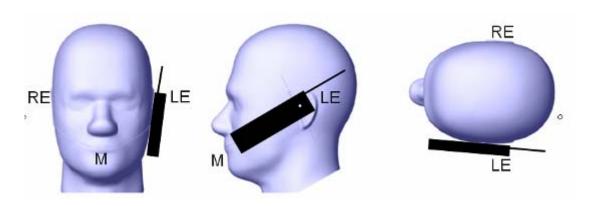
This test position is established:

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

(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



Ear/Tilt Position

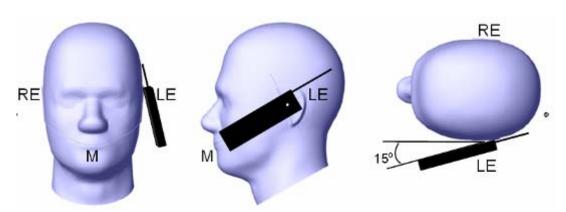
With the handset aligned in the "Cheek/Touch Position":

- 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

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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.

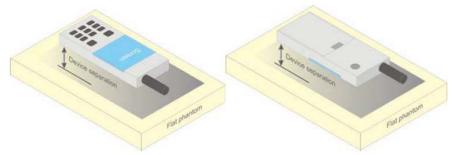


Figure 5 - Test positions for body-worn devices

Test Distance for SAR Evaluation

For this case the EUT(Equipment Under Test) is set 10mm away from the phantom, the test distance is 10mm.

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.

CONDUCTED OUTPUT POWER MEASUREMENT

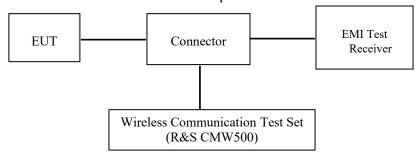
Provision Applicable

The measured peak output power should be greater and within 5% than EMI measurement.

Test Procedure

The RF output of the transmitter was connected to the input of the EMI Test Receiver through Connector.

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GSM/WCDMA

Radio Configuration

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

GSM/GPRS/EGPRS

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 or GSM + EGSM

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
- > 27 dBm for EGPRS 850
- > 26 dBm for EGPRS 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) and MCS5 (EGPRS)

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

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	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	1	
	Rel99 RMC		1	12.2kbps RM	IC	
	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				
	$eta_{ m c}/eta_{ m d}$	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		
HSDPA	DNAK			8		
Specifi	DCQI			8		
c Setting	Ack-Nack repetition factor	3				
Setting	CQI Feedback	4ms				
3	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.

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	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	1						
WCDM	Power Control			Algorithm2				
WCDMA	Algorithm	11/15	6/15	15/15	2/15	15/15		
General	$\frac{\beta_c}{\rho}$	15/15	15/15	9/15	15/15			
Settings	β_d	209/225	12/15	30/15	2/15	5/15		
	β_{ec}	11/15	6/15	15/9	2/13	3/13		
	β_{c}/β_{d}	22/15	12/15		4/15	5/15		
	β_{hs}	1.0		30/15		1.0		
	CM(dB)		3.0	2.0	3.0			
	MPR(dB) DACK	0	2	8	2	0		
	DNAK			8				
				8				
HSDPA	DCQI Ack-Nack			8				
Specific	repetition factor			3				
Settings	CQI Feedback			4ms				
Settings	CQI Repetition							
	Factor			2				
	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	7.5	07) <u>2</u>	, 1	01		
	UL Data Rate	242.1	174.9	482.8	205.8	308.9		
	kbps	2 .2.1	1,,	.02.0	20010	200.5		
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-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			

DC-HSDPA

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

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

	Parameter	Unit	Value
Nominal	Avg. Inf. Bit Rate	kbps	60
Inter-TTI	Distance	TTľs	1
Number	of HARQ Processes	Proces	6
		ses	0
Informati	on Bit Payload (N_{INF})	Bits	120
Number	Code Blocks	Blocks	1
Binary C	hannel Bits Per TTI	Bits	960
Total Ava	ailable SML's in UE	SML's	19200
Number	of SML's per HARQ Proc.	SML's	3200
Coding F	Rate		0.15
Number	of Physical Channel Codes	Codes	1
Modulati	on		QPSK
Note 1:	The RMC is intended to be used for		
	mode and both cells shall transmit	with identi	cal
	parameters as listed in the table.		
Note 2:	Maximum number of transmission		
	retransmission is not allowed. The		cy and
	constellation version 0 shall be use	ed.	

HSPA+

Sub- test	β _c (Note3)	β _d	β _{HS} (Note1)	βес	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)	
1	1	0	30/15	30/15	β _{ed} 1: 30/15 β _{ed} 2: 30/15	β _{ed} 3: 24/15 β _{ed} 4: 24/15	3.5	2.5	14	105	105
Note 1	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).

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

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

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

Maximum Target Output Power

	Max Target Power(dBm)							
M 1 /D 1		Channel						
Mode/Band	Low	Middle	High					
GSM 850	33.5	33.5	33.5					
GPRS 1 TX Slot	33.3	33.3	33.3					
GPRS 2 TX Slot	31	31	31					
GPRS 3 TX Slot	29	29	29					
GPRS 4 TX Slot	27.5	27.5	27.5					
EDGE 1 TX Slot	28	28	28					
EDGE 2 TX Slot	26	26	26					
EDGE 3 TX Slot	24	24	24					
EDGE 4 TX Slot	22	22	22					
PCS 1900	31	31	31					
GPRS 1 TX Slot	31	31	31					
GPRS 2 TX Slot	29	29	29					
GPRS 3 TX Slot	27	27	27					
GPRS 4 TX Slot	25	25	25					
EDGE 1 TX Slot	27	27	27					
EDGE 2 TX Slot	25	25	25					
EDGE 3 TX Slot	23	23	23					
EDGE 4 TX Slot	21	21	21					
WCDMA Band 2	24	24	24					
HSDPA	24	24	24					
HSUPA	24.1	24.1	24.1					
DC-HSDPA	22	22	22					
HSPA+	21	21	21					
WCDMA Band 5	24.2	24.2	24.2					
HSDPA	24.1	24.1	24.1					
HSUPA	24	24	24					
DC-HSDPA	22	22	22					
HSPA+	21	21	21					
WLAN 2.4G(802.11b)	9.8	9.8	9.8					
WLAN 2.4G(802.11g)	9.5	9.5	9.5					
WLAN 2.4G(802.11n HT20)	9.8	9.8	9.8					
Bluetooth BDR/EDR	9.7	9.7	9.7					
BLE_1M	1	1	1					

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Test Results:

GSM:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)
	128	824.2	32.95
GSM 850	190	836.6	33.40
	251	848.8	33.18
	512	1850.2	30.72
PCS 1900	661	1880	29.86
	810	1909.8	30.27

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GPRS:

Dand	Channel	Frequency	RF Output Power (dBm)				
Band	No.	(MHz)	1 slot	2 slots	3 slots	4 slots	
	128	824.2	32.79	30.80	28.95	27.11	
GSM 850	190	836.6	33.16	30.71	28.90	26.51	
	251	848.8	32.92	30.55	28.74	26.33	
	512	1850.2	30.59	28.52	26.82	24.84	
PCS 1900	661	1880	30.97	28.81	26.98	24.04	
	810	1909.8	30.94	28.75	26.61	24.55	

EDGE:

D J	Channel	Frequency		RF Output Po	ower (dBm)	
Band	No.	(MHz)	1 slot	2 slots	3 slots	4 slots
	128	824.2	27.86	25.70	23.48	21.98
GSM 850	190	836.6	27.05	25.09	22.95	21.12
	251	848.8	27.31	25.93	23.56	21.31
	512	1850.2	26.61	24.82	22.90	20.72
PCS 1900	661	1880	26.05	23.99	21.94	20.17
	810	1909.8	26.81	24.42	22.75	20.95

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

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D d	Channel	Frequency	Time based average Power (dBm)				
Band	No.	(MHz)	1 slot	2 slot	3 slots	4 slots	
	128	824.2	23.79	24.80	24.70	24.11	
GSM 850	190	836.6	24.16	24.71	24.65	23.51	
	251	848.8	23.92	24.55	24.49	23.33	
	512	1850.2	21.59	22.52	22.57	21.84	
PCS 1900	661	1880	21.97	22.81	22.73	21.04	
	810	1909.8	21.94	22.75	22.36	21.55	

The time based average power for EDGE

Band Channel No.	Channel	Frequency	Time based average Power (dBm)				
	No.	(MHz)	1 slot	2 slot	3 slots	4 slots	
	128	824.2	18.86	19.70	19.23	18.98	
GSM 850	190	836.6	18.05	19.09	18.70	18.12	
	251	848.8	18.31	19.93	19.31	18.31	
	512	1850.2	17.61	18.82	18.65	17.72	
PCS 1900	661	1880	17.05	17.99	17.69	17.17	
	810	1909.8	17.81	18.42	18.50	17.95	

Note:

- 1. Rohde & Schwarz Radio Communication Tester (CMW500) 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)
WCDMA Band 2	1852.4	23.63
	1880	23.56
	1907.6	23.06
WCDMA Band 5	826.4	24.04
	836.6	24.12
	846.6	24.01

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Results (HSDPA)

Dand	Frequency	RF Output Power (dBm)					
Band	(MHz)	Subset 1	Subset 2	Subset 3	Subset 4		
WCDMA Band 2	1852.4	22.90	23.60	23.43	23.37		
	1880	23.43	22.84	23.21	23.10		
	1907.6	22.89	23.18	23.34	23.03		
WCDMA Band 5	826.4	24.01	22.93	24.06	22.92		
	836.6	23.89	22.93	22.88	23.06		
	846.6	23.93	22.50	22.61	23.03		

Results (HSUPA)

Dand	Frequency	RF Output Power (dBm)					
Band	(MHz)	Subset 1	Subset 2	Subset 3	Subset 4	Subset 5	
	1852.4	22.79	22.84	22.86	23.01	23.23	
WCDMA Band 2	1880	22.86	22.71	23.81	24.03	23.80	
	1907.6	23.06	22.75	22.66	22.89	23.81	
	826.4	22.89	23.84	23.78	22.80	22.92	
WCDMA Band 5	836.6	23.83	22.83	22.99	22.64	22.52	
	846.6	22.73	22.38	22.58	22.83	22.78	

Results (DC-HSDPA)

Dand	Frequency	RF Output Power (dBm)					
Band	(MHz)	Subset 1	Subset 2	Subset 3	Subset 4		
WCDMA Band 2	1852.4	21.44	21.77	21.48	21.69		
	1880	21.79	21.85	21.79	21.66		
	1907.6	21.83	21.81	21.85	21.66		
WCDMA Band 5	826.4	21.30	21.59	21.92	21.32		
	836.6	21.91	21.76	21.66	21.99		
	846.6	21.67	21.63	21.64	21.50		

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Results (HSPA+)

Band	Frequency (MHz)	RF Output Power (dBm)
WCDMA Band 2	1852.4	20.68
	1880	20.93
	1907.6	20.74
	826.4	20.75
WCDMA Band 5	836.6	20.92
	846.6	20.83

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 $\frac{1}{4}$ dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.

Wi-Fi 2.4G:

Mode	Channel frequency (MHz)	Data Rate	Conducted Average Output
	2412		9.78
802.11b	2437	1Mbps	9.44
	2462		9.18
	2412		9.38
802.11g	2437	6Mbps	9.25
	2462		9.17
802.11n HT20	2412		9.55
	2437	MCS0	9.72
	2462		9.54

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Bluetooth:

Mode	Channel frequency (MHz)	RF Output Power (dBm)
	2402	7.76
BDR(GFSK)	2441	9.67
	2480	9.09
	2402	7.74
EDR(π/4-DQPSK)	2441	8.53
	2480	7.82
	2402	8.06
EDR(8DPSK)	2441	8.87
	2480	8.27
	2402	-1.37
BLE_1M	2440	-0.09
	2480	0.71

Standalone SAR test exclusion considerations

Antennas Location:



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Antenna Distance To Edge

Antenna Distance To Edge(mm)							
Antenna	Back	Left	Right	Top	Bottom		
WWAN Antenna(GSM/WCDMA)	< 5	9	10	150	< 5		
2.4G Wi-Fi/BT Antenna	< 5	53	<5	< 5	146		

Standalone SAR test exclusion considerations

Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
2.4G WLAN	2412	9.8	9.55	0	2.97	3.0	YES
BT	2441	9.7	9.33	0	2.92	3.0	YES

Note: The bluetooth based peak power for calculation, and Wi-Fi based average 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.

Standalone SAR estimation:

Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Estimated 1-g (W/kg)
2.4G WLAN Head	2412	9.8	9.55	0	0.40
2.4G WLAN Body	2412	9.8	9.55	10	0.20
BT Head	2441	9.7	9.33	0	0.39
BT Body	2441	9.7	9.33	10	0.19

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Note: The bluetooth based peak power for calculation, and Wi-Fi based average 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)] $\cdot [\sqrt{f(GHz)/x}]$

W/kg for test separation distances ≤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

SAR test exclusion for the EUT edge considerations Result

Antenna Distance To Edge(mm)							
Mode Back Left Right Top Botto							
BT/Wi-Fi	Exclusion*	Exclusion*	Exclusion*	Exclusion*	Exclusion*		
WWAN(GSM/WCDMA)	Required	Required	Required	Exclusion	Required		

Note:

Required: The distance to Edge is less than 25mm, testing is required. **Exclusion*:** SAR test exclusion evaluation has been done above. **Exclusion:** The distance to Edge is more than 25 mm, testing is not required.

SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

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SAR Test Data

Environmental Conditions

Temperature:	22.2-23.7 ℃
Relative Humidity:	43-58%
ATM Pressure:	100.9 kPa
Test Date:	2021/11/24

Testing was performed by Seven Liang, Jacky Yang, Fake ou.

GSM 850:

EUT Frequen		Test	Max. Meas.	Max. Rated		1g SAR (W/kg)			
Position	Frequency (MHz)	Mode		Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
	824.2	GSM	/	/	/	/	/	/	
Head Left Cheek	836.6	GSM	33.4	33.5	1.023	0.146	0.15	1#	
	848.8	GSM	/	/	/	/	/	/	
	824.2	GSM	/	/	/	/	/	/	
Head Left Tilt	836.6	GSM	33.4	33.5	1.023	0.090	0.09	2#	
	848.8	GSM	/	/	/	/	/	/	
	824.2	GSM	/	/	/	/	/	/	
Head Right Cheek	836.6	GSM	33.4	33.5	1.023	0.150	0.15	3#	
	848.8	GSM	/	/	/	/	/	/	
	824.2	GSM	/	/	/	/	/	/	
Head Right Tilt	836.6	GSM	33.4	33.5	1.023	0.077	0.08	4#	
	848.8	GSM	/	/	/	/	/	/	
_ , ,	824.2	GSM	/	/	/	/	/	/	
Body Worn Back (10mm)	836.6	GSM	33.4	33.5	1.023	0.283	0.29	5#	
(Tollilli)	848.8	GSM	/	/	/	/	/	/	
	824.2	GPRS	/	/	/	/	/	/	
Body Back (10mm)	836.6	GPRS	30.71	31	1.069	0.310	0.33	6#	
(Tollilli)	848.8	GPRS	/	/	/	/	/	/	
	824.2	GPRS	/	/	/	/	/	/	
Body Left (10mm)	836.6	GPRS	30.71	31	1.069	0.187	0.20	7#	
(Tollilli)	848.8	GPRS	/	/	/	/	/	/	
Body Right (10mm)	824.2	GPRS	/	/	/	/	/	/	
	836.6	GPRS	30.71	31	1.069	0.131	0.14	8#	
(1011111)	848.8	GPRS	/	/	/	/	/	/	
	824.2	GPRS	/	/	/	/	/	/	
Body Bottom (10mm)	836.6	GPRS	30.71	31	1.069	0.069	0.07	9#	
(1011111)	848.8	GPRS	/	/	/	/	/	/	

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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.
- 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, 3DL+2UL is the worst case.

PCS 1900:

EUT Frequency		T 4	Max.	Max.	1g SAR (W/kg)			
Position	(MHz)	Test Mode	Meas. Power (dBm)	Rated Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	1850.2	GSM	/	/	/	/	/	/
Head Left Cheek	1880	GSM	29.86	31	1.3	0.308	0.40	10#
	1909.8	GSM	/	/	/	/	/	/
	1850.2	GSM	/	/	/	/	/	/
Head Left Tilt	1880	GSM	29.86	31	1.3	0.117	0.15	11#
	1909.8	GSM	/	/	/	/	/	/
	1850.2	GSM	/	/	/	/	/	/
Head Right Cheek	1880	GSM	29.86	31	1.3	0.159	0.21	12#
	1909.8	GSM	/	/	/	/	/	/
	1850.2	GSM	/	/	/	/	/	/
Head Right Tilt	1880	GSM	29.86	31	1.3	0.135	0.18	13#
	1909.8	GSM	/	/	/	/	/	/
_	1850.2	GSM	/	/	/	/	/	/
Body Worn Back (10mm)	1880	GSM	29.86	31	1.3	0.457	0.59	14#
(1011111)	1909.8	GSM	/	/	/	/	/	/
	1850.2	GPRS	/	/	/	/	/	/
Body Back (10mm)	1880	GPRS	28.81	29	1.045	0.657	0.69	15#
(1011111)	1909.8	GPRS	/	/	/	/	/	/
	1850.2	GPRS	/	/	/	/	/	/
Body Left (10mm)	1880	GPRS	28.81	29	1.045	0.444	0.46	16#
(1011111)	1909.8	GPRS	/	/	/	/	/	/
Body Right (10mm)	1850.2	GPRS	/	/	/	/	/	/
	1880	GPRS	28.81	29	1.045	0.062	0.06	17#
	1909.8	GPRS	/	/	/	/	/	/
_	1850.2	GPRS	/	/	/	/	/	/
Body Bottom (10mm)	1880	GPRS	28.81	29	1.045	0.398	0.42	18#
(1011111)	1909.8	GPRS	/	/	/	/	/	/

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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 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.
 - 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, 3DL+2UL is the worst case.

WCDMA Band 2:

	F	T4	Max.	Max.		1g SAF	R (W/kg)	
EUT Position	Frequency (MHz)	Test Mode	Meas. Rated Power (dBm) (dBm)		Scaled Factor	Meas. SAR	Scaled SAR	Plot
	1852.4	RMC	/	/	/	/	/	/
Head Left Cheek	1880	RMC	23.56	24	1.107	0.289	0.32	19#
	1907.6	RMC	/	/	/	/	/	/
	1852.4	RMC	/	/	/	/	/	/
Head Left Tilt	1880	RMC	23.56	24	1.107	0.096	0.11	20#
	1907.6	RMC	/	/	/	/	/	/
	1852.4	RMC	/	/	/	/	/	/
Head Right Cheek	1880	RMC	23.56	24	1.107	0.167	0.18	21#
	1907.6	RMC	/	/	/	/	/	/
	1852.4	RMC	/	/	/	/	/	/
Head Right Tilt	1880	RMC	23.56	24	1.107	0.134	0.15	22#
	1907.6	RMC	/	/	/	/	/	/
	1852.4	RMC	/	/	/	/	/	/
Body Back (10mm)	1880	RMC	23.56	24	1.107	0.533	0.59	23#
(1011111)	1907.6	RMC	/	/	/	/	/	/
	1852.4	RMC	/	/	/	/	/	/
Body Left (10mm)	1880	RMC	23.56	24	1.107	0.362	0.40	24#
(Tollill)	1907.6	RMC	/	/	/	/	/	/
	1852.4	RMC	/	/	/	/	/	/
Body Right (10mm)	1880	RMC	23.56	24	1.107	0.057	0.06	25#
(1011111)	1907.6	RMC	/	/	/	/	/	/
	1852.4	RMC	/	/	/	/	/	/
Body Bottom (10mm)	1880	RMC	23.56	24	1.107	0.379	0.42	26#
(1011111)	1907.6	RMC	/	/	/	/	/	/

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WCDMA Band 5:

DIT	EUT Frequency Test Max. Max. Rated			1g SAR (W/kg)				
Position	(MHz)	Mode	Power (dBm)	Power Power		Meas. SAR	Scaled SAR	Plot
	826.4	RMC	/	/	/	/	/	/
Head Left Cheek	836.6	RMC	24.12	24.2	1.019	0.121	0.12	27#
	846.6	RMC	/	/	/	/	/	/
	826.4	RMC	/	/	/	/	/	/
Head Left Tilt	836.6	RMC	24.12	24.2	1.019	0.086	0.09	28#
	846.6	RMC	/	/	/	/	/	/
	826.4	RMC	/	/	/	/	/	/
Head Right Cheek	836.6	RMC	24.12	24.2	1.019	0.066	0.07	29#
	846.6	RMC	/	/	/	/	/	/
	826.4	RMC	/	/	/	/	/	/
Head Right Tilt	836.6	RMC	24.12	24.2	1.019	0.044	0.04	30#
	846.6	RMC	/	/	/	/	/	/
	826.4	RMC	/	/	/	/	/	/
Body Back (10mm)	836.6	RMC	24.12	24.2	1.019	0.253	0.26	31#
(Tomin)	846.6	RMC	/	/	/	/	/	/
	826.4	RMC	/	/	/	/	/	/
Body Left (10mm)	836.6	RMC	24.12	24.2	1.019	0.107	0.11	32#
(1011111)	846.6	RMC	/	/	/	/	/	/
	826.4	RMC	/	/	/	/	/	/
Body Right (10mm)	836.6	RMC	24.12	24.2	1.019	0.159	0.16	33#
(1011111)	846.6	RMC	/	/	/	/	/	/
	826.4	RMC	/	/	/	/	/	/
Body Bottom (10mm)	836.6	RMC	24.12	24.2	1.019	0.072	0.07	34#
(1011111)	846.6	RMC	/	/	/	/	/	/

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Note:

- 1. When the 1-g SAR is $\leq 0.8 W/Kg$, 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 ¼ 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.

SAR 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 ($\sim 10\%$ 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	Frequency	Freq.(MHz)	EUT Docition	Meas. SA	.R (W/kg)	Largest to Smallest
calibration point	Band	rieq.(Miriz)	EUT Position	Original	Repeated	SAR Ratio
/	/	/	/	/	/	/

Body

SAR probe	Frequency	Frag (MHz)	EUT Position	Meas. SA	R (W/kg)	Largest to Smallest
calibration point		EOT Tosition	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..

SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

Simultaneous Transmission:

Description of Simultaneous Transmit Capabilities					
Transmitter Combination	Simultaneous?	Hotspot?			
WWAN(GSM/WCDMA) + Bluetooth	$\sqrt{}$	×			
WWAN(GSM/WCDMA) + WLAN	√	V			
WLAN + Bluetooth	×	×			

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Simultaneous and Hotspot SAR test exclusion considerations:

Mode(SAR1+SAR2)	Position	Reported S	Reported SAR(W/kg)		
mode(Start Start)	1 USILIUII	SAR1	SAR2	1.6W/kg	
	Head Left Cheek	0.15	0.39	0.54	
	Head Left Tilt	0.09	0.39	0.48	
GSM 850+Bluetooth	Head Right Cheek	0.15	0.39	0.54	
GSM 830+Bluetooth	Head Right Tilt	0.08	0.39	0.47	
	Body Worn Back	0.29	0.19	0.48	
	Body Back	0.33	0.19	0.52	
	Head Left Cheek	0.40	0.39	0.79	
	Head Left Tilt	0.15	0.39	0.54	
DCC 1000 Dloods -4l-	Head Right Cheek	0.21	0.39	0.6	
PCS 1900+ Bluetooth	Head Right Tilt	0.18	0.39	0.57	
	Body Worn Back	0.59	0.19	0.78	
	Body Back	0.69	0.19	0.88	
	Head Left Cheek	0.32	0.39	0.71	
	Head Left Tilt	0.11	0.39	0.5	
WCDMA Band 2+ Bluetooth	Head Right Cheek	0.18	0.39	0.57	
	Head Right Tilt	0.15	0.39	0.54	
	Body Back	0.59	0.19	0.78	
	Head Left Cheek	0.12	0.39	0.51	
	Head Left Tilt	0.09	0.39	0.48	
WCDMA Band 5+ Bluetooth	Head Right Cheek	0.07	0.39	0.46	
	Head Right Tilt	0.04	0.39	0.43	
	Body Back	0.26	0.19	0.45	

Mode(SAR1+SAR2)	Position	Reported S	Reported SAR(W/kg)		
MOUL(DAINT (DAINZ)	1 OSITION	SAR1	SAR2	1.6W/kg	
	Head Left Cheek	0.15	0.40	0.55	
	Head Left Tilt	0.09	0.40	0.49	
GSM 850+ Wi-Fi 2.4G	Head Right Cheek	0.15	0.40	0.55	
	Head Right Tilt	0.08	0.40	0.48	
	Body Worn Back	0.29	0.20	0.49	
	Body Back	0.33	0.20	0.53	
GSM 850+ Wi-Fi 2.4G	Body Left	0.20	0.20	0.4	
(Hotspot)	Body Right	0.14	0.20	0.34	
	Body Bottom	0.07	0.20	0.27	
	Head Left Cheek	0.40	0.40	0.80	
	Head Left Tilt	0.15	0.40	0.55	
PCS 1900+ Wi-Fi 2.4G	Head Right Cheek	0.21	0.40	0.61	
	Head Right Tilt	0.18	0.40	0.58	
	Body Worn Back	0.59	0.20	0.79	
	Body Back	0.69	0.20	0.89	
PCS 1900+ Wi-Fi 2.4G	Body Left	0.46	0.20	0.66	
(Hotspot)	Body Right	0.06	0.20	0.26	
	Body Bottom	0.42	0.20	0.62	
	Head Left Cheek	0.32	0.40	0.72	
WCDMA D12+W; E; 2.4C	Head Left Tilt	0.11	0.40	0.51	
WCDMA Band 2+ Wi-Fi 2.4G	Head Right Cheek	0.18	0.40	0.58	
	Head Right Tilt	0.15	0.40	0.55	
	Body Back	0.59	0.20	0.79	
WCDMA Band 2+ Wi-Fi 2.4G	Body Left	0.40	0.20	0.60	
(Hotspot)	Body Right	0.06	0.20	0.26	
	Body Bottom	0.42	0.20	0.62	
	Head Left Cheek	0.12	0.40	0.52	
WCDMA Band 5+ Wi-Fi 2.4G	Head Left Tilt	0.09	0.40	0.49	
WCDIMA Baild 3+ WI-FI 2.40	Head Right Cheek	0.07	0.40	0.47	
	Head Right Tilt	0.04	0.40	0.44	
	Body Back	0.26	0.20	0.46	
WCDMA Band 5+ Wi-Fi 2.4G	Body Left	0.11	0.20	0.31	
(Hotspot)	Body Right	0.16	0.20	0.36	
	Body Bottom	0.07	0.20	0.27	

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Note:

Conclusion:

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

^{1.} Hotspot mode SAR is measured for all edges and surfaces of the device with a transmitting antenna located within 25 mm from that surface or edge; for the data modes, wireless technologies and frequency bands supporting hotspot mode.

^{2.} Hotspot Mode is not feasible during voice calls.

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SAR Plots	
Please Refer to the Attachment.	

APPENDIX A MEASUREMENT UNCERTAINTY

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

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APPENDIX B EUT TEST POSITION PHOTO	S
Please Refer to the Attachment.	

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APPENDIX C PROBE CALIBRATION CERTIFICATES		
Please Refer to the Attachment.		

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APPENDIX D DIPOLE	CALIBRATION CERTIF	ICATES
Please Refer to the Attachment.		
	**** END OF REPORT **	***