



SAR TEST REPORT

Applicant: HONG KONG IPRO TECHNOLOGY CO.,LIMITED

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

FCC ID: PQ4IPROBUQUE7S

Product Name: BUQUE7S

Model Number: BUQUE7S

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

The above equipment has been tested and found compliance with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR21100029-SA

Date Of Issue: 2021-12-05

Reviewed By: Sun Zhong

Sun 2hong

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

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SAR TEST RESULTS SUMMARY

Operation Frequency	I	Highest Reported 1g SAR (W/kg)				
Bands	Head	Body-Supported (Gap 0mm)	Hotspot (Gap 10mm)	(W/kg)		
GSM 850	0.10	0.30	/			
PCS 1900	0.08	0.79	/			
WCDMA Band 2	0.08	1.43	/	1.6		
WCDMA Band 5	0.05	0.12	/			
WLAN 2.4G	0.12	0.21	/			
	Maximum	Simultaneous Transmis	sion SAR			
Items	Head	Body-Supported	Hotspot	Limits		
Sum SAR(W/kg)	0.22	1.55	1.53	1.6		
SPLSR	N/A	N/A	N/A	0.04		
EUT Received Date:	2021/10/24					
Tested Date	2021/12/04					
Test Results	Pass					

Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang 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. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "\(^{\text{a}}\)". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

Device Type:	Portable
Exposure Category:	Population / Uncontrolled
Antenna Type(s):	Internal Antenna
Body-Worn Accessories:	Plastic case
Operation modes:	GSM Voice, GPRS/EDGE Data, WCDMA(R99 (Voice+Data), HSDPA/HSUPA), WLAN 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) WLAN 2.4G: 2412 MHz-2462 MHz Bluetooth: 2402 MHz-2480 MHz
Conducted RF Power:	GSM 850 : 32.95 dBm; PCS 1900: 31.01 dBm WCDMA Band 2: 23.18 dBm; WCDMA Band 5: 23.69 dBm WLAN 2.4G: 9.44 dBm Bluetooth(BDR/EDR): 4.46 dBm BLE: -4.00 dBm
Rated Input Voltage:	DC 3.85 V from Rechargeable Battery
Serial Number:	CR21100029-SA
Normal Operation:	Head and Body Supported

1.2.2 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR \S 2.1093, IEEE 1528-2013, the following FCC Published RF exposure KDB procedures:

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KDB 447498 D01 General RF Exposure Guidance v06

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 616217 D04 SAR for laptop and tablets v01r02

KDB 248227 D01 802 11 Wi-Fi SAR v02r02

TCB Workshop April 2019: RF Exposure Procedures

1.2.3 SAR Limts

FCC Limit

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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			

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 for 1g SAR applied to the EUT.

3. SAR MEASUREMENT SYSTEM

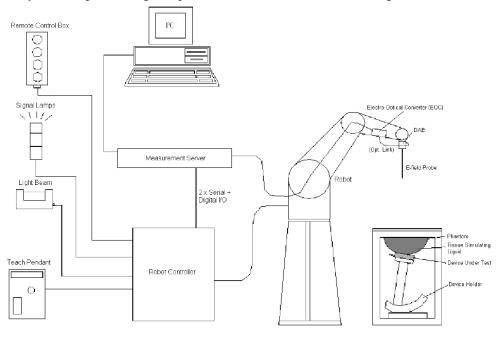
These measurements were performed with the automated near-field scanning system DASY5 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:

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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 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



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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.

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 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: 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

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Calibration Frequency Points for EX3DV4 E-Field Probes SN: 7522 Calibrated: 2021/4/19

Calibration Frequency	Freq Range	uency e(MHz)	Conversion Factor		
Point(MHz)	From	To	X	Y	Z
750 Head	650	850	9.93	9.93	9.93
750 Body	650	850	9.87	9.87	9.87
900 Head	850	1000	9.39	9.39	9.39
900 Body	850	1000	9.31	9.31	9.31
1750 Head	1650	1850	8.16	8.16	8.16
1750 Body	1650	1850	7.83	7.83	7.83
1900 Head	1850	2000	7.94	7.94	7.94
1900 Body	1850	2000	7.66	7.66	7.66
2300 Head	2200	2400	7.61	7.61	7.61
2300 Body	2200	2400	7.45	7.45	7.45
2450 Head	2400	2550	7.25	7.25	7.25
2450 Body	2400	2550	7.29	7.29	7.29
2600 Head	2550	2700	7.05	7.05	7.05
2600 Body	2550	2700	7.01	7.01	7.01

SAM Twin Phantom

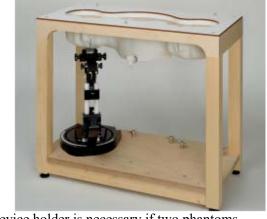
The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness increases to 6 mm). The phantom has three measurement areas:

- Left Head
- Right Head
- Flat phantom

The phantom table for the DASY systems based on the robots have the size of 100 x 50 x 85 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)



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A white cover is provided to cover the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. Free space scans of devices on top of this phantom cover are possible. Three reference marks are provided on the phantom counter. These reference marks are used to teach the absolute phantom position relative to the robot.

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 CS8c 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.

SAR Scan Pricedures

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 1.4 mm. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

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Step 2: 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.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

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

Step 3: 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/m^3 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 10 mm, with the side length of the 10 g cube is 21.5 mm.

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Zoom Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

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

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.

Step 4: Power Drift Measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

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.

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

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

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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.

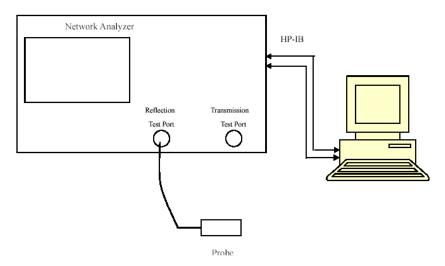
EQUIPMENT LIST AND CALIBRATION

Equipments List & Calibration Information

Equipments List & Calibration Into	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52.10	N/A	NCR	NCR
DASY5 Measurement Server	DASY5 4.5.12	1567	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	BJPCTC0152	NCR	NCR
Twin SAM	Twin SAM V5.0	1412	NCR	NCR
Dipole, 750 MHz	D750V3	1167	2019/11/20	2022/11/19
Dipole, 1900 MHz	D1900V2	543	2019/10/15	2022/10/14
Dipole, 2450 MHz	D2450V2	971	2021/6/28	2024/6/27
Simulated Tissue 750 MHz	TS-750	2009075001	Each Time	/
Simulated Tissue 1900 MHz	TS-1900	2003190001	Each Time	/
Simulated Tissue 2450 MHz	TS-2450	2003245001	Each Time	/
Network Analyzer	8753C	3033A02857	2021/10/26	2022/10/25
Dielectric assessment kit	1253	SM DAK 040 CA	NCR	NCR
synthesized signal generator	8665B	3438a00584	2021/10/26	2022/10/25
Power Meter	EPM- 441A/8484A	GB37481494	2021/10/26	2022/10/25
Power Amplifier	ZVA-183-S+	5969001149	NCR	NCR
Directional Coupler	441493	520Z	NCR	NCR
Attenuator	20dB, 100W	LN749	NCR	NCR
Attenuator	6dB, 150W	2754	NCR	NCR
Wireless communication tester	E5515C	MY48367501	2021/10/26	2022/10/25
R&S, universal Radio Communication Tester	CMU200	106891	2021/10/26	2022/10/25
Wideband Radio Communication Tester	CMW500	110479	2021/10/26	2022/10/25

SAR MEASUREMENT SYSTEM VERIFICATION

Liquid Verification



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Liquid Verification Setup Block Diagram

Liquid Verification Results

Frequency	Liquid Tomo	Liquid , Parameter		Target Value		Delta (%)		Tolerance
(MHz)	MHz) Liquid Type		O' (S/m)	$\epsilon_{\rm r}$	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔΟ΄ (S/m)	(%)
750	Simulated Tissue 750 MHz	42.039	0.861	41.9	0.89	0.33	-3.26	±10
824.2	Simulated Tissue 750 MHz	41.668	0.876	41.55	0.9	0.28	-2.67	±10
826.4	Simulated Tissue 750 MHz	41.665	0.889	41.54	0.9	0.3	-1.22	±10
836.6	Simulated Tissue 750 MHz	41.629	0.894	41.5	0.9	0.31	-0.67	±10
846.6	Simulated Tissue 750 MHz	41.52	0.907	41.5	0.91	0.05	-0.33	±10
848.8	Simulated Tissue 750 MHz	41.516	0.914	41.5	0.91	0.04	0.44	±10

^{*}Liquid Verification above was performed on 2021/12/04.

Frequency	Frequency Liquid Tone				rget lue	Delta (%)		Tolerance
(MHz)	Liquid Type	$\epsilon_{ m r}$	O' (S/m)	$\epsilon_{ m r}$	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔΟ΄ (S/m)	(%)
1850.2	Simulated Tissue 1900 MHz	40.143	1.363	40	1.4	0.36	-2.64	±10
1852.4	Simulated Tissue 1900 MHz	40.134	1.369	40	1.4	0.34	-2.21	±10
1880	Simulated Tissue 1900 MHz	40.118	1.376	40	1.4	0.3	-1.71	±10
1900	Simulated Tissue 1900 MHz	40.097	1.408	40	1.4	0.24	0.57	±10
1907.6	Simulated Tissue 1900 MHz	40.013	1.418	40	1.4	0.03	1.29	±10
1909.8	Simulated Tissue 1900 MHz	39.983	1.422	40	1.4	-0.04	1.57	±10

^{*}Liquid Verification above was performed on 2021/12/04.

Frequency Liquid Type		_	Parameter		Target Value		Delta (%)	
(MHz)	Liquid Type	ε _r	Q	ε _r	Q	$\Delta arepsilon_{ m r}$	ΔO	(%)
		o _r	(S/m)	o _r	(S/m)	⊒ o r	(S/m)	
2412	Simulated Tissue 2450 MHz	39.379	1.757	39.28	1.77	0.25	-0.73	±10
2437	Simulated Tissue 2450 MHz	39.351	1.762	39.23	1.79	0.31	-1.56	±10
2450	Simulated Tissue 2450 MHz	39.145	1.812	39.2	1.8	-0.14	0.67	±10
2462	Simulated Tissue 2450 MHz	39.087	1.827	39.18	1.81	-0.24	0.94	±10

^{*}Liquid Verification above was performed on 2021/12/04.

System Accuracy Verification

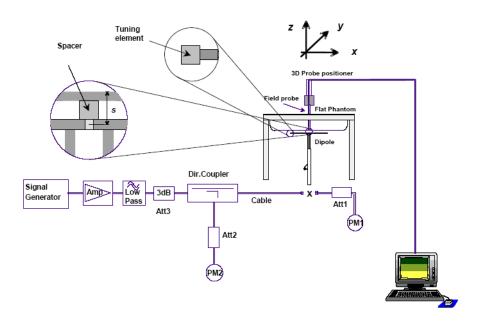
Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

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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 MHz;
- b) $s = 10 \text{ mm} \pm 0.2 \text{ mm}$ 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)	5	asured SAR V/kg)	Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)
2021/12/04	750 MHz	Simulated Tissue 750 MHz	100	1g	0.851	8.51	8.38	1.55	±10
2021/12/04	1900 MHz	Simulated Tissue 1900 MHz	100	1g	3.88	38.8	40.2	-3.48	±10
2021/12/04	2450 MHz	Simulated Tissue 2450 MHz	100	1g	5.09	50.9	53.5	-4.86	±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: 1167

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

Medium parameters used: f = 750 MHz; $\sigma = 0.861$ S/m; $\varepsilon_r = 42.039$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

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

Report No.: CR21100029-SA

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

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

Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412

• Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

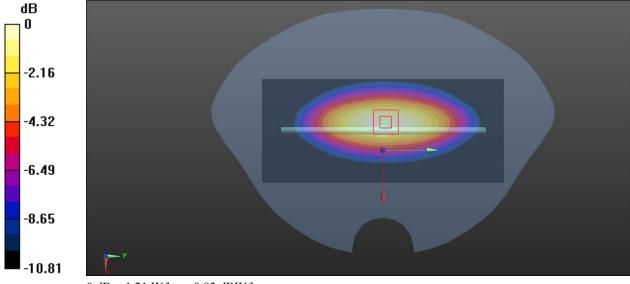
Area Scan (61x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 1.19 W/kg

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

Reference Value = 30.07 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.851 W/kg; SAR(10 g) = 0.564 W/kgMaximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg

System Performance 1900MHz

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

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

Medium parameters used: f = 1900 MHz; $\sigma = 1.408 \text{ S/m}$; $\varepsilon_r = 40.097$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

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

Report No.: CR21100029-SA

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

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

Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412

• Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

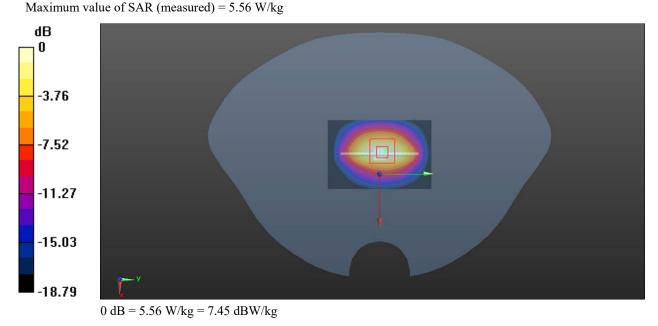
Area Scan (41x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 5.97 W/kg

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

Reference Value = 52.52 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 6.74 W/kg

SAR(1 g) = 3.88 W/kg; SAR(10 g) = 1.96 W/kg



Report No.: CR21100029-SA

System Performance 2450MHz

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

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; $\sigma = 1.812 \text{ S/m}$; $\varepsilon_r = 39.145$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN7522; ConvF(7.25, 7.25, 7.25) @ 2450 MHz; Calibrated: 2021/4/19

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

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

Phantom: Twin SAM; Type: Twin SAM V5.0; Serial: TP:1412

• Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

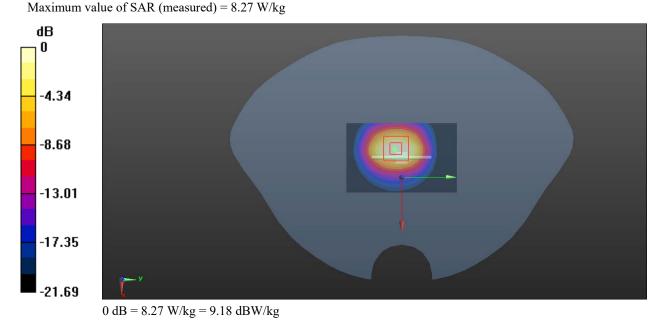
Area Scan (51x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 8.78 W/kg

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

Reference Value = 44.72 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 10.2 W/kg

SAR(1 g) = 5.09 W/kg; SAR(10 g) = 2.41 W/kg

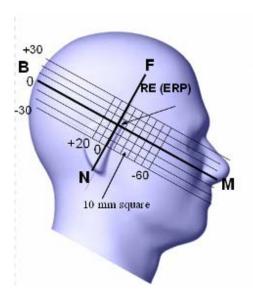


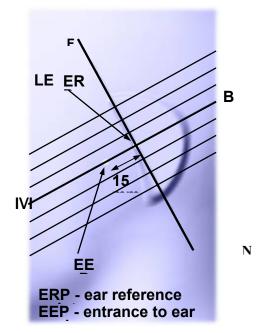
EUT TEST STRATEGY AND METHODOLOGY

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:





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:

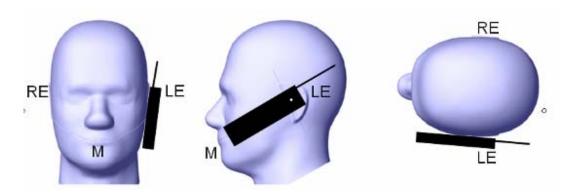
When any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom.

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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



Ear/Tilt Position

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

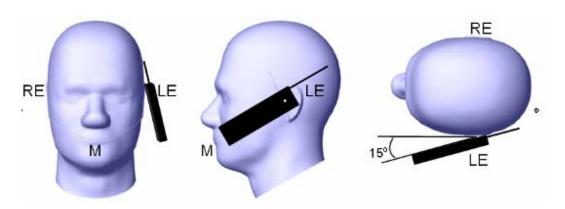
- 1) If the earpiece of the handset is not in full contact with the phantom's ear spacer (in the "Cheek/Touch position") and the peak SAR location for the "Cheek/Touch" position is located at the ear spacer region or corresponds to the earpiece region of the handset, the device should be returned to 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

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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



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.

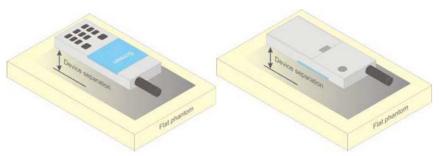


Figure 5 – Test positions for body-worn devices

Test Distance for SAR Evaluation

In this case the EUT(Equipment Under Test) is set directly against the phantom, the test distance is 0mm.

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 $(10 \times 10 \times 10)$ 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.

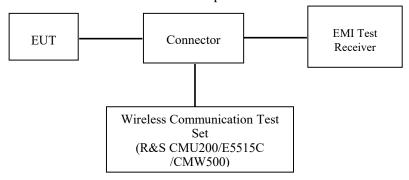
CONDUCTED OUTPUT POWER MEASUREMENT

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.



GSM/WCDMA

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

E	EUT Operation Mode:	The system was configured for testing in each operation mode.
Equi	ipment Modifications:	No
EU	UT Exercise Software:	No

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The maximum power was configured per 3GPP Standard for each operation modes as below setting:

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 stable)

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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1	21 1 Specification. The Bell has a normal maximum cuspus pewer of 2 (abin (1111 311)).						
	Loopback Mode	Test Mode 1					
Rel99 RMC 12.2kbps RMC							
WCDMA General Settings	Power Control Algorithm	Algorithm2					
	βс / βd	8/15					

WCDMA HSDPA

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

34.121-1 spe				•	
	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subset	1	2	3	4
	Loopback Mode			Test Mode 1	
	Rel99 RMC			12.2kbps RM	C
	HSDPA FRC			H-Set1	
WCDV	Power Control Algorithm			Algorithm2	
WCDMA	βε	2/15	12/15	15/15	15/15
General Settings	βd	1 /15	15/15	8/15	4/15
Settings	βd (SF)			64	
	βc/ βd	2/15	12/15	15/8	15/4
	βhs	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			3	
Settings	factor			3	
Settings	CQI Feedback			4ms	
	CQI Repetition Factor			2	<u> </u>
	Ahs=βhs/ βc			30/15	

WCDMA 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		4	5			
	Loopback Mode			Test Mode 1					
	Rel99 RMC		1	2.2kbps RMC					
	HSDPA FRC			H-Set1					
	HSUPA Test		HS	SUPA Loopba	ck				
****	Power Control			Algorithm2					
WCDMA	Algorithm								
General	βε	11/15	6/15	15/15	2/15	15/15			
Settings	βd	15/15	15/15	9/15	15/15	0			
	βес	209/225	12/15	30 15	2/15	5/15			
	βc/ βd	11/15	6/15	15/9	2/15	-			
	βhs	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					
HCDDA	DCQI	8							
HSDPA	Ack-Nack repetition	3							
Specific Settings	factor			3					
Settings	CQI Feedback			4ms					
	CQI Repetition Factor			2					
	Ahs=βhs/ βc			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 UL Data Rate k ps	242.1	174.9	482.8	205.8	308.9			
HSUPA Specific Settings	Reference E_FCls	E-TFC E-TFC E-TFC E-TFC E-TFC E-TFC E-TFC E-TFC	I PO 4 CI 67 PO 18 CI 71 I PO23 CI 75 I PO26 CI 81	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 PO27				

Maximum Target Output Power

Max Target Power(dBm)								
N. 1. (D. 1		Channel						
Mode/Band	Low	Middle	High					
GSM 850	33.1	33.1	33.1					
GPRS 1 TX Slot	33.1	33.1	33.1					
GPRS 2 TX Slot	30.9	30.9	30.9					
GPRS 3 TX Slot	29.4	29.4	29.4					
GPRS 4 TX Slot	27.8	27.8	27.8					
EDGE 1 TX Slot	27.6	27.6	27.6					
EDGE 2 TX Slot	26	26	26					
EDGE 3 TX Slot	24.1	24.1	24.1					
EDGE 4 TX Slot	23	23	23					
GSM 1900	30.9	30.9	30.9					
GPRS 1 TX Slot	31.1	31.1	31.1					
GPRS 2 TX Slot	29	29	29					
GPRS 3 TX Slot	27	27	27					
GPRS 4 TX Slot	25.5	25.5	25.5					
EDGE 1 TX Slot	27	27	27					
EDGE 2 TX Slot	25.1	25.1	25.1					
EDGE 3 TX Slot	23.4	23.4	23.4					
EDGE 4 TX Slot	21.6	21.6	21.6					
WCDMA Band 2	23.3	23.3	23.3					
HSDPA	23.2	23.2	23.2					
HSUPA	23	23	23					
WCDMA Band 5	23.8	23.8	23.8					
HSDPA	23.8	23.8	23.8					
HSUPA	23.7	23.7	23.7					
WLAN 2.4G(802.11b)	9.5	9.5	9.5					
WLAN 2.4G(802.11g)	9.3	9.3	9.3					
WLAN 2.4G(802.11n ht20)	8.1	8.1	8.1					
Bluetooth BDR/EDR	4.5	4.5	4.5					
BLE	-4	-4	-4					

Test Results:

GSM:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)
	128	824.2	32.85
GSM 850	190	836.6	32.81
	251	848.8	32.56
	512	1850.2	30.61
PCS 1900	661	1880	30.67
	810	1909.8	30.77

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GPRS:

Dand	Channel	Channel Frequency (MHz)		RF Output Power (dBm)				
Band N	No.			2 slots	3 slots	4 slots		
	128	824.2	32.52	30.80	29.30	27.67		
GSM 850	190	836.6	32.95	30.64	29.23	27.70		
	251	848.8	32.67	30.70	29.13	27.40		
	512	1850.2	31.01	28.58	26.92	25.08		
PCS 1900	661	1880	30.80	28.92	26.77	25.09		
	810	1909.8	30.56	28.63	26.85	25.44		

EGPRS:

Daniel Channel		Frequency	RF Output Power (dBm)					
Band No.	(MHz)	1 slot	2 slots	3 slots	4 slots			
	128	824.2	27.28	25.75	23.87	22.74		
GSM 850	190	836.6	27.47	25.65	23.96	22.87		
	251	848.8	27.26	25.87	23.84	22.50		
	512	1850.2	26.54	24.93	23.16	21.53		
PCS 1900	661	1880	26.43	24.68	23.24	21.43		
	810	1909.8	26.90	24.97	23.29	21.40		

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

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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

Band	Channel No.	Frequency	Time based average Power (dBm)			
		(MHz)	1 slot	2 slot	3 slots	4 slots
GSM 850	128	824.2	23.52	24.8	25.05	24.67
	190	836.6	23.95	24.64	24.98	24.7
	251	848.8	23.67	24.7	24.88	24.4
PCS 1900	512	1850.2	22.01	22.58	22.67	22.08
	661	1880	21.8	22.92	22.52	22.09
	810	1909.8	21.56	22.63	22.6	22.44

The time based average power for EGPRS

Band	Channel No.	Frequency (MHz)	Time based average Power (dBm)			
			1 slot	2 slot	3 slots	4 slots
	128	824.2	18.28	19.75	19.62	19.74
GSM 850	190	836.6	18.47	19.65	19.71	19.87
	251	848.8	18.26	19.87	19.59	19.5
PCS 1900	512	1850.2	17.54	18.93	18.91	18.53
	661	1880	17.43	18.68	18.99	18.43
	810	1909.8	17.9	18.97	19.04	18.4

Note:

- 1. Rohde & Schwarz Radio Communication Tester (CMU200) 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).
- 4. According to KDB941225D01-SAR for EGPRS mode are not required when the source-based time-averaged output power for data mode is lower than that in the normal GPRS mode.

WCDMA: Results (12.2kbps RMC)

Band	Frequency (MHz)	RF Output Power (dBm)
	1852.4	22.98
WCDMA Band 2	1880	23.02
	1907.6	23.18
	826.4	23.69
WCDMA Band 5	836.6	23.01
	846.6	23.25

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Results (HSDPA)

Band	Frequency	RF Output Power (dBm)				
Danu	(MHz)	Subset 1	Subset 2	Subset 3	Subset 4	
	1852.4	22.63	22.82	22.84	22.77	
WCDMA Band 2	1880	23.09	22.74	23.06	22.48	
	1907.6	22.70	22.87	22.30	23.02	
	826.4	23.20	23.20	23.02	23.24	
WCDMA Band 5	836.6	23.27	23.67	23.31	23.23	
	846.6	23.56	23.25	23.24	23.49	

Results (HSUPA)

Band	Frequency	RF Output Power (dBm)					
Danu	(MHz)	Subset 1	Subset 2	Subset 3	Subset 4	Subset 5	
	1852.4	22.93	22.57	22.76	22.16	22.47	
WCDMA Band 2	1880	22.54	22.59	22.87	22.78	22.72	
	1907.6	22.78	22.67	22.66	23.06	22.46	
	826.4	22.89	23.59	23.34	22.74	22.86	
WCDMA Band 5	836.6	23.10	23.38	23.12	22.88	23.00	
	846.6	22.87	22.78	22.90	23.18	22.87	

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 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.

WLAN 2.4G:

Mode	Channel frequency (MHz)	Data Rate	Conducted Average Output Power(dBm)
	2412		8.79
802.11b	2437	1Mbps	9.04
	2462		9.44
802.11g	2412		6.67
	2437	6Mbps	8.01
	2462		9.20
	2412		5.56
802.11n ht20	2437	MCS0	6.83
	2462		8.00

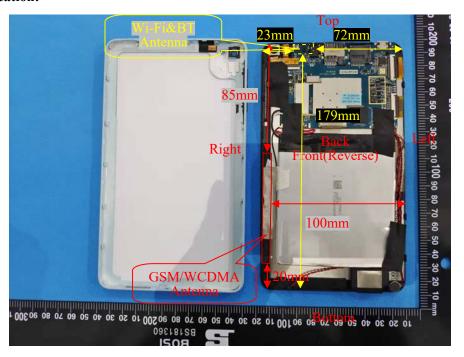
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Bluetooth:

Mode	Channel frequency (MHz)	RF Output Power (dBm)
	2402	2.83
BDR(GFSK)	2441	3.60
	2480	4.20
	2402	3.00
$EDR(\pi/4-DQPSK)$	2441	3.78
	2480	4.17
	2402	3.12
EDR(8DPSK)	2441	3.74
	2480	4.46
	2402	-5.17
BLE	2440	-4.03
	2480	-4.06

Standalone SAR test exclusion considerations

Antennas Location:



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Antenna Distance To Edge

Antenna Distance To Edge(mm)									
Antenna	Back	Left	Right	Тор	Bottom				
WWAN Antenna(GSM/WCDMA)	< 5	100	< 5	85	20				
WLAN 2.4G&BT Antenna	< 5	72	23	< 5	179				

Standalone SAR test exclusion considerations

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
Wi-Fi	2462	9.5	8.91	0	2.8	3	YES
Bluetooth	2480	4.5	2.82	0	0.9	3	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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Estimated 1-g (W/kg)
BT Body	2480	4.5	2.82	0	0.12
BT Head	2480	4.5	2.82	0	0.12

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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)] $\cdot [\sqrt{f(GHz)/x}]$

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

Standalone SAR test exclusion considerations:

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Test exclusion Threshold (mm)
GSM 850	848.8	25.15	327.3	79.1
PCS1900	1909.8	23	199.5	59.1
WCDMA Band 2	1907.6	23.3	213.8	60.6
WCDMA Band 5	846.6	23.8	239.9	63.7
WLAN 2.4G	2462	9.5	8.9	<5

Note: The maximum time based average power is used for calculation.

SAR test exclusion for the EUT edge considerations Result

Mode	Back Edge	Left Edge	Right Edge	Top Edge	Bottom Edge
GSM 850	Required	Exclusion	Required	Exclusion	Required
PCS1900	Required	Exclusion	Required	Exclusion	Required
WCDMA Band 2	Required	Exclusion	Required	Exclusion	Required
WCDMA Band 5	Required	Exclusion	Required	Exclusion	Required
WLAN 2.4G	Required*	Exclusion	Exclusion	Required*	Exclusion

Note:

Required: The distance is less than **Test Exclusion Distance**, the SAR test is required.

Exclusion: The distance is large than **Test Exclusion Distance**, SAR test is not required.

Required*: WLAN 2.4G was exempted from testing above, but for more conservative, we chose to test with it.

SAR test exclusion for the EUT edge considerations detail:

Distance < 50mm (To Edges)

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

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- 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.

Distance > 50mm(To Edges)

At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:

a.[Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz

b.[Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance - 50 mm) \cdot 10] mW at > 1500 MHz and \leq 6 GHz.

SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

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SAR Test Data

Environmental Conditions

Temperature:	22.4-23.2 ℃
Relative Humidity:	33 %
ATM Pressure:	101.8 kPa
Test Date:	2021/12/04

Testing was performed by Karl Gong, Ken Zong, Way Li.

GSM 850:

EUT	Engguenav	Test	Max. Meas.	Max. Rated		1g SAF	R (W/kg)	
Position	Frequency (MHz)	Mode	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	824.2	GSM	/	/	/	/	/	/
Head Flat	836.6	GSM	32.81	33.1	1.069	0.089	0.1	1#
	848.8	GSM	/	/	/	/	/	/
	824.2	GSM	/	/	/	/	/	/
Body Worn Back (0mm)	836.6	GSM	32.81	33.1	1.069	0.197	0.21	2#
(0)	848.8	GSM	/	/	/	/	/	/
	824.2	GPRS	/	/	/	/	/	/
Body Back (0mm)	836.6	GPRS	29.23	29.4	1.04	0.284	0.3	3#
(0)	848.8	GPRS	/	/	/	/	/	/
	824.2	GPRS	/	/	/	/	/	/
Body Right (0mm)	836.6	GPRS	29.23	29.4	1.04	0.239	0.25	4#
(*)	848.8	GPRS	/	/	/	/	/	/
	824.2	GPRS	/	/	/	/	/	/
Body Bottom (0mm)	836.6	GPRS	29.23	29.4	1.04	< 0.01	0.01	/
()	848.8	GPRS	/	/	/	/	/	/

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- 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, 2DL+3UL is the worst case.
- 6. For modes that peak SAR is too low to evaluate, a SAR value 0.01W/kg is considered as their Scaled SAR.
- 7. EUT was tested with a plastic case.

PCS 1900:

EUT	Engguenav	Test	Max. Meas.	Max. Rated		1g SAF	R (W/kg)	
Position	Frequency (MHz)	Mode	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	1850.2	GSM	/	/	/	/	/	/
Head Flat	1880	GSM	30.67	30.9	1.054	0.08	0.08	5#
	1909.8	GSM	/	/	/	/	/	/
	1850.2	GSM	/	/	/	/	/	/
Body Worn Back (0mm)	1880	GSM	30.67	30.9	1.054	0.517	0.54	6#
(0)	1909.8	GSM	/	/	/	/	/	/
	1850.2	GPRS	/	/	/	/	/	/
Body Back (0mm)	1880	GPRS	28.92	29	1.019	0.604	0.62	7#
(******)	1909.8	GPRS	/	/	/	/	/	/
	1850.2	GPRS	/	/	/	/	/	/
Body Right (0mm)	1880	GPRS	28.92	29	1.019	0.78	0.79	8#
(Omm)	1909.8	GPRS	/	/	/	/	/	/
	1850.2	GPRS	/	/	/	/	/	/
Body Bottom (0mm)	1880	GPRS	28.92	29	1.019	< 0.01	0.01	/
()	1909.8	GPRS	/	/	/	/	/	/

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- 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.
- 6. For modes that peak SAR is too low to evaluate, a SAR value 0.01W/kg is considered as their Scaled SAR.
- 7. EUT was tested with a plastic case.

WCDMA Band 2:

EUT	Frequency	Test	Max. Meas.	Max. Rated		1g SAF	R (W/kg)	
Position	(MHz)	Mode	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	1852.4	RMC	/	/	/	/	/	/
Head Flat	1880	RMC	22.92	23.3	1.091	0.074	0.08	9#
	1907.6	RMC	/	/	/	/	/	/
	1852.4	RMC	22.98	23.3	1.076	0.951	1.02	10#
Body Back (0mm)	1880	RMC	23.02	23.3	1.067	1.03	1.1	11#
(0)	1907.6	RMC	23.18	23.3	1.028	1.28	1.32	12#
	1852.4	RMC	22.98	23.3	1.076	0.955	1.03	13#
Body Right (0mm)	1880	RMC	23.02	23.3	1.067	1.08	1.15	14#
(0)	1907.6	RMC	23.18	23.3	1.028	1.39	1.43	15#
	1852.4	RMC	/	/	/	/	/	/
Body Bottom (0mm)	1880	RMC	23.02	23.3	1.067	< 0.01	0.01	/
()	1907.6	RMC	/	/	/	/	/	/

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WCDMA Band 5:

EUT	Frequency	Test	Max. Meas.	Max. Rated		1g SAF	R (W/kg)	
Position	(MHz)	Mode	Mode Power I	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	826.4	RMC	/	/	/	/	/	/
Head Flat	836.6	RMC	23.01	23.8	1.199	0.039	0.05	16#
	846.6	RMC	/	/	/	/	/	/
	826.4	RMC	/	/	/	/	/	/
Body Back (0mm)	836.6	RMC	23.01	23.8	1.199	0.104	0.12	17#
(*)	846.6	RMC	/	/	/	/	/	/
	826.4	RMC	/	/	/	/	/	/
Body Right (0mm)	836.6	RMC	23.01	23.8	1.199	0.058	0.07	18#
(*******)	846.6	RMC	/	/	/	/	/	/
	826.4	RMC	/	/	/	/	/	/
Body Bottom (0mm)	836.6	RMC	23.01	23.8	1.199	< 0.01	0.01	/
(* 1111)	846.6	RMC	/	/	/	/	/	/

- When the 1-g SAR is ≤ 0.8W/Kg, testing for other channels are optional.
 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.

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- 4. KDB 941225 D01-Body SAR is not required for HSDPA/HSUPA 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.
- 6. For modes that peak SAR is too low to evaluate, a SAR value 0.01W/kg is considered as their Scaled SAR.
- 7. EUT was tested with a plastic case.

WLAN 2.4G:

EUT	Frequency	Test	Max. Meas.	Max. Rated		1g SAF	R (W/kg)	
Position	(MHz)	Mode	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	2412	802.11b	/	/	/	/	/	/
Head Left Cheek	2437	802.11b	9.04	9.5	1.112	0.107	0.12	19#
	2462	802.11b	/	/	/	/	/	/
	2412	802.11b	/	/	/	/	/	/
Head Left Tilt	2437	802.11b	9.04	9.5	1.112	0.092	0.1	20#
	2462	802.11b	/	/	/	/	/	/
	2412	802.11b	/	/	/	/	/	/
Head Right Cheek	2437	802.11b	9.04	9.5	1.112	0.058	0.06	21#
	2462	802.11b	/	/	/	/	/	/
	2412	802.11b	/	/	/	/	/	/
Head Right Tilt	2437	802.11b	9.04	9.5	1.112	0.059	0.07	22#
	2462	802.11b	/	/	/	/	/	/
	2412	802.11b	/	/	/	/	/	/
Body Back (0mm)	2437	802.11b	9.04	9.5	1.112	0.191	0.21	23#
(omm)	2462	802.11b	/	/	/	/	/	/
	2412	802.11b	/	/	/	/	/	/
Body Top (0mm)	2437	802.11b	9.04	9.5	1.112	0.154	0.17	24#
(2462	802.11b	/	/	/	/	/	/

Note

- 1. When the 1-g SAR is \leq 0.8W/kg, testing for other channels are optional.
- 2. 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.
- 3.KDB 248227 D01-SAR measurement is not required for 2.4 GHz OFDM(801.11g/n) when the highest reported SAR for DSSS(802.11b) is \leq 1.2 W/kg, and the output power for DSSS is not less than that for OFDM.
- 4. EUT was tested with a plastic case.

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	Enag (MIIa)	EUT Position	Meas. SA	Largest to Smallest	
calibration point	Band Freq.(N	Freq.(MHz)	EU1 Position	Original	Repeated	SAR Ratio
/	/	/	/	/	/	/

Body

SAR probe	Frequency	Eros (MHs)	EUT Position	Meas. SA	AR (W/kg)	Largest to Smallest
calibration point	Band	Freq.(MHz)	EU1 Position	Original	Repeated	SAR Ratio
1900MHz (1850-2000MHz)	WCDMA Band 2	1907.6	Body Right	1.39	1.36	1.02

- 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 Tr	ansmit Capabilities	
Transmitter Combination	Simultaneous?	Hotspot?
WWAN(GSM/WCDMA) + Bluetooth	$\sqrt{}$	×
WWAN(GSM/WCDMA) + WLAN 2.4G	$\sqrt{}$	V
WLAN + Bluetooth	×	×

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Note:

KDB616217 D04- The standalone and simultaneous transmission SAR tests required for tablets are more conservative than the hotspot mode use configurations; therefore, additional testing for hotspot SAR is not required.

Simultaneous SAR test exclusion considerations:

Mode(SAR1+SAR2)	Position	Reported S	SAR(W/kg)	ΣSAR <
Wode(Stiff Stiff)	1 Osition	SAR1	SAR2	1.6W/kg
	Head Flat	0.1	0.12	0.22
	Body Worn Back	0.21	0.12	0.33
GSM 850+Bluetooth	Body Back	0.3	0.12	0.42
	Body Right	0.25	0.12	0.37
	Body Bottom	0.01	0.12	0.13
	Head Flat	0.08	0.12	0.2
	Body Worn Back	0.54	0.12	0.66
PCS1900 +Bluetooth	Body Back	0.62	0.12	12 0.74
	Body Right	0.79	0.12	0.91
	Body Bottom	0.01	0.12	0.13
	Head Flat	0.08	0.12	0.2
WCDMA Band 2+Bluetooth	Body Back	1.32	0.12	1.44
WCDIVIA Band 2+Bluetootii	Body Right	1.43	0.12	1.55
	Body Bottom 0.01 0.12 0.13	0.13		
	Head Flat	0.05	0.12	0.17
WCDMA Band 5+Bluetooth	Body Back	0.12	0.12	0.24
w CDIVIA Band 3+Bluetootii	Body Right	0.07	0.12	0.19
	Body Bottom	0.01	0.12	0.13

Mode(SAR1+SAR2)	Position	Reported S	SAR(W/kg)	ΣSAR <
ivioue(Siliei · Siliei)	1 05141011	SAR1	SAR2	1.6W/kg
	Head Flat	0.1	0.12	0.22
GSM 850 + WLAN 2.4G	Body Worn Back	0.21	NA	NA
	Body Back	0.3	0.21	0.51
	Head Flat	0.08	0.12	0.2
PCS 1900 + WLAN 2.4G	Body Worn Back	0.54	NA	NA
	Body Back	0.62	0.21	0.83
WCDMA Band 2+ WLAN 2.4G	Head Flat	0.08	0.12	0.2
WCDINIA Balld 2+ WLAIN 2.40	Body Back	1.32	0.21	1.53
WCDMA Band 5+ WLAN 2.4G	Head Flat	0.05	0.12	0.17
WCDIVIA Ballu 3+ WLAN 2.40	Body Back	0.12	0.21	0.33

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Conclusion:

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

SAR Plots Please Refer to the Attachment.	China Certification ICT Co., Ltd (Dongguan)	Report No.: CR21100029-S
	SAR Plots	
Please Refer to the Attachment.		
	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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China Certification ICT Co., Ltd (Dongguan)	Report No.: CR21100029-SA
APPENDIX B EUT TEST POSITION PHOTO	
	,,,
Please Refer to the Attachment.	

China Certification ICT Co., Ltd (Dongguan)	Report No.: CR21100029-SA
APPENDIX C CALIBRATION CERTIFICAT	TES
Please Refer to the Attachment.	
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