

Report No.: SEWM2203000022RG09

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FCC SAR TEST REPORT

Application No.: SEWM2203000022RG

Applicant:COOSEA GROUP (HK) COMPANY LIMITEDManufacturer:COOSEA GROUP (HK) COMPANY LIMITED

Product Name: Mobile Phone

Model No.(EUT): SL101AE

Brand Name: Cricket

FCC ID: 2A28USL101AE

Standards: FCC 47CFR §2.1093

Date of Receipt: 2022-05-09

Date of Test: 2022-05-10 to 2022-05-20

Date of Issue: 2022-05-30
Test conclusion: PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Panta Sun

Wireless Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
SEWM2203000022RG09	01	Original	2022-05-30



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TEST SUMMARY

Fun annual Daniel	Max	imum Reported SAR(V	V/kg)	
Frequency Band	Head	Body-worn	Hotspot	
WCDMA Band II	0.48	0.61	1.04	
WCDMA Band IV	0.45	0.56	1.17	
WCDMA Band V	0.36	0.42	0.47	
LTE Band 2	0.47	0.47	1.02	
LTE Band 4	0.59	0.83	0.90	
LTE Band 5	0.43	0.55	0.71	
LTE Band 12	0.27	0.43	0.56	
LTE Band 14	0.45	0.75	0.84	
LTE Band 30	0.13	0.89	1.10	
WI-FI (2.4GHz)	0.79	0.24	0.44	
WI-FI (5GHz)	0.96	0.62	1.03	
BT	< 0.10	< 0.10	< 0.10	
SAR Limited(W/kg)		1.6		
Мах	imum Simultaneous Transı	mission SAR (W/kg)		
Scenario	Head	Body-worn	Hotspot	
Sum SAR	1.56	1.52	1.53	
SPLSR	N/A	N/A	0.04	
SPLSR Limited	0.04			

Note:

1) The Simultaneous transmission SAR is the same test position of the WWAN antenna + WiFi/BT antenna.

2) According to TCB workshop October,2014 RF Exposure Procedures Update (Overlapping Bands): SAR for LTE Band 4 (Frequency range: 1710 - 1755 MHz)/LTE Band 5 (Frequency range: 824 – 849 MHz)/12 (Frequency range: 699 - 716 MHz)

Reviewed by

well wei

Well Wei

Prepared by

Nick Hu



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1 General Information

1.1 Details of Client

Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA

1.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test Engineer:	Nature Shen, Leon Xu



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1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327



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1.4 General Description of EUT

Device Type:	portable device					
Exposure Category:	uncontrolled environment / general population					
Product Name:	Mobile Phone	Mobile Phone				
Model No.(EUT):	SL101AE	SL101AE				
Trade Mark:	Cricket	Cricket				
FCC ID:	2A28USL101AE	2A28USL101AE				
Product Phase:	Identical Prototype					
IMEI:	355171430009902					
Hardware Version:	V1.0					
Software Version:	SL101AEC10004					
Antenna Type:	Integrated					
Device Operating Configurat	ions :					
Modulation Mode:		T: GFSK, π/4DQPSK,8DPSK				
Power Class:	•	ntrol "all up"(WCDMA Bands)				
		3, tested with power control Max Power(LTE Band)				
	Band	Tx (MHz)	Rx (MHz)			
	WCDMA Band II	1850 -1910	1930 - 1990			
	WCDMA Band IV	1710 -1755	2110 - 2155			
	WCDMA Band V	824 - 849	869 - 894			
	LTE Band 2	1850 - 1910	1930 - 1990			
	LTE Band 4	1710 - 1755	2110 - 2155			
	LTE Band 5	824 - 849	869 - 894			
Frequency Bands:	LTE Band 12	699 - 716	729 - 746			
Trequency Bands.	LTE Band 14	788 - 798	758 - 768			
	LTE Band 30	2305 - 2315	2350 - 2360			
	Bluetooth	2402~2480	2402~2480			
	Wi-Fi 2.4G	2412~2462	2412~2462			
		5150~5250	5150~5250			
	Wi-Fi 5G	5250~5350	5250~5350			
	WI-I I 3G	5470~5725	5470~5725			
		5725~5850	5725~5850			
RF Cable:	□ Provided I	by the aplicant $\; \square \;$ Provided by the la	boratory			
	Model:	BL-A36CT				
Datton, Information	Normal Voltage:	3.8V				
Battery Information:	Rated capacity:	2450mAh				
	Manufacturer:	Shenzhen Aerospace Electronic Co	o.,Ltd.			
	•	· ·				

Remark: According to the client's difference statement, there are two types of EUT, the sample 1 was used for full test and sample 2 to verify the worst case.



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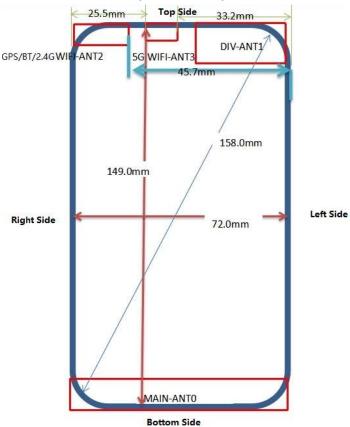
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1.4.1 DUT Antenna Locations(Back View)



Antenna	Support TX Band	
Ant 0	WCDMA B2/4/5,LTE B2/B4/B5/B12/B14/B30	
Ant 2	WIFI 2.4G /BT	
Ant 3	WIFI 5G	

Note:

- 1) The test device is a smart phone. The overall diagonal dimension of this device is 158 mm.
- 2) The DIV Antenna does not support transmitter function.

According to the distance between antennas and the sides of the EUT we can draw the conclusion that:

EUT Sides for SAR Testing							
Mode	Exposure Condition	Front	Back	Left	Right	Тор	Bottom
Main Ant	Hotspot	Yes	Yes	Yes	Yes	No	Yes
WiFi2.GHz/BT	Hotspot	Yes	Yes	No	Yes	Yes	No
WiFi5GHz	Hotspot	Yes	Yes	No	No	Yes	No

Table 1: EUT Sides for SAR Testing

Note: When the antenna-to-edge distance is greater than 2.5cm, such position does not need to be tested.



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1.4.2 Power reduction specification

This device uses a single fixed level of power reduction through static table look-up for SAR compliance and it is triggered by a single event or operation

- 1) A fixed level power reduction is applied for some frequency bands when hotspot mode becomes active. When the hotspot is disabled, the power value will be recovered.
- 2) A fixed level power reduction is applied for some frequency bands when handset operate "held to the ear" condition, the power reduction triggered by audio receiver detection. The audio receiver detection is used to determine head or body scenario.

The following tables summarize the key power reduction information. The detailed full power which is the Max. power the state can use and reduced tune-up specifications and conducted power measurement results are provided in Section 8 of this report.

Main antenna(Ant0) Power Level(dBm)			
Power Reduction Scenario	LTE B2	LTE B4	LTE B30
Hotspot off	25.00	25.00	25.00
Hotspot on	24.00	23.00	22.00

WiFi antenna Power Level(dBm)				
	Power Reduction Scenario	Receiver Off	Receiver On	
	802.11a U-NII-1	18.50	14.50	
	802.11a U-NII-2A	18.50	14.50	
	802.11a U-NII-2C	18.50	14.50	
	802.11a U-NII-3	18.50	14.50	
	802.11n 20M U-NII-1	17.50	14.50	
	802.11n 20M U-NII-2A	17.50	14.50	
	802.11n 20M U-NII-2C	17.50	14.50	
	802.11n 20M U-NII-3	17.50	14.50	
	802.11n 40M U-NII-1	17.50	14.50	
	802.11n 40M U-NII-2A	17.50	14.50	
	802.11n 40M U-NII-2C	17.50	14.50	
Witi EC	802.11n 40M U-NII-3	17.50	14.50	
WiFi 5G	802.11ac 20M U-NII-1	16.50	14.50	
	802.11ac 20M U-NII-2A	16.50	14.50	
	802.11ac 20M U-NII-2C	16.50	14.50	
	802.11ac 20M U-NII-3	16.50	14.50	
	802.11ac 40M U-NII-1	16.00	14.50	
	802.11ac 40M U-NII-2A	16.00	14.50	
	802.11ac 40M U-NII-2C	16.00	14.50	
	802.11ac 40M U-NII-3	16.00	14.50	
	802.11ac 80M U-NII-1	16.00	14.50	
	802.11ac 80M U-NII-2A	16.00	14.50	
	802.11ac 80M U-NII-2C	16.00	14.50	
	802.11ac 80M U-NII-3	16.00	14.50	



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1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
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 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02



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1.6 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

Notes:

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

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



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^{*} The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

^{**} The Spatial Average value of the SAR averaged over the whole body.

^{***} The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.



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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C		
Relative humidity	Min. = 30%, Max. = 70%		
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.			

Table 2: The Ambient Conditions



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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

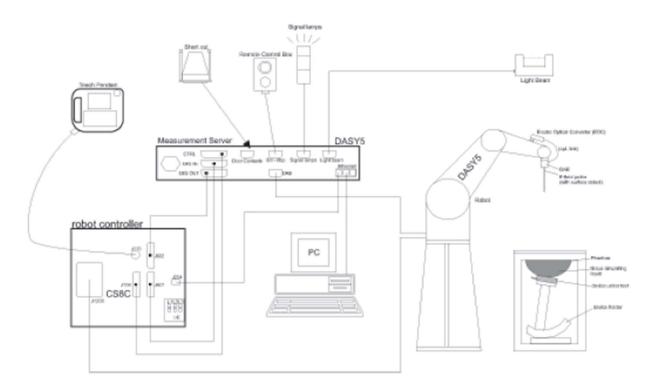
The DASY5 system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software .An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration



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- 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.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.

3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 <u>calibration service</u> available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/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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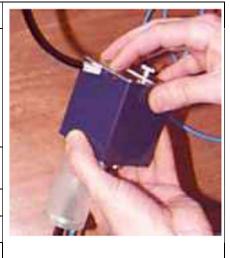


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3.3 Data Acquisition Electronics (DAE)

Model	DAE
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)
Input Offset Voltage	< 5μV (with auto zero)
Input Bias Current	< 50 f A
Dimensions	60 x 60 x 68 mm



3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet
Filling Volume	approx. 25 liters
Wooden Support	SPEAG standard phantom table



The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.



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3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)		
Liquid	Compatible with all SPEAG tissue		
Compatibility	simulating liquids (incl. DGBE type)		
Shell Thickness	2.0 ± 0.2 mm (bottom plate)		
Dimensions	Major axis: 600 mm		
	Minor axis: 400 mm		
Filling Volume	approx. 30 liters		
Wooden Support	SPEAG standard phantom table		



Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.



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3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε =3 and loss tangent δ =0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

The "reference" and "drift" measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 32mm*32mm*30mm (f≤2GHz), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). 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. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.



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			≤ 3 GHz	> 3 GHz	
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	½·δ·ln(2) ± 0.5 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 sp	atial resol	ation: Δx _{Area} , Δy _{Area}	When the x or y dimension o measurement plane orientation the measurement resolution r x or y dimension of the test d measurement point on the test	on, is smaller than the above nust be ≤ the corresponding levice with at least one	
Maximum zoom scan s	spatial <mark>res</mark> c	lution: Δx_{Zoom} , Δy_{Zoom}	≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm	3 – 4 GHz: ≤ 5 mm 4 – 6 GHz: ≤ 4 mm	
š.	uniform grid: Δz _{Zoom} (n)		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
	grid $\Delta z_{Z_{00m}}(n>1)$: between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$		
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. \pm 5 %



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3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2

Conversion factor
 Diode compression point
 Device parameters: - Frequency

- Crest factor cf
Media parameters: - Conductivity ε

- Density ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

With Vi = compensated signal of channel i (i = x, y, z) Ui = input signal of channel i (i = x, y, z) cf = crest factor of exciting field (DASY parameter) dcp i = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes:

$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$



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H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} \mid a_{i1}f \mid a_{i2}f^2)/f$$

Vi = compensated signal of channel i sensor sensitivity of channel I (i = x, y, z)

Normi = sensor sensitivity of channel I

[mV/(V/m)2] for E-field Probes

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

Ei = electric field strength of channel i in V/m

Hi = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR - (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

σ= conductivity in [mho/m] or [Siemens/m]

ε= equivalent tissue density in g/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 2 / 3770_{or} P_{pwe} = H_{tot}^2 \cdot 37.7$$

Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m





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SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, 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. The 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 remounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 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 \geq 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-a 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. The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.



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Description of Test Position 5

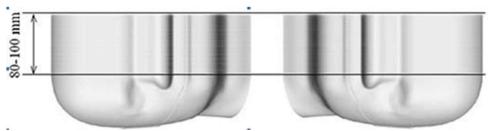
5.1 Head Exposure Condition

5.1.1 **SAM Phantom Shape**

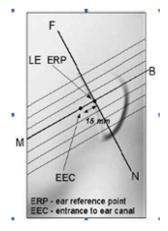


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

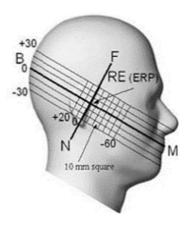
Note: The centre strip including the nose region has a different thickness tolerance.



Sagittally bisected phantom with extended perimeter (shown placed on its side as used for SAR F-4. measurements)



F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven crosssectional plane locations



F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations



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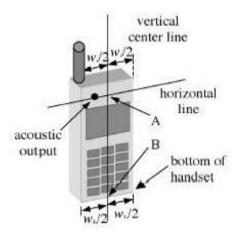
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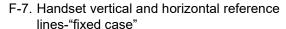


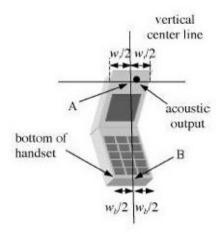
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5.1.2 EUT constructions







F-8. Handset vertical and horizontal reference lines-"clam-shell case"

5.1.3 Definition of the "cheek" position

- a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom ("initial position"). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.
- b) Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



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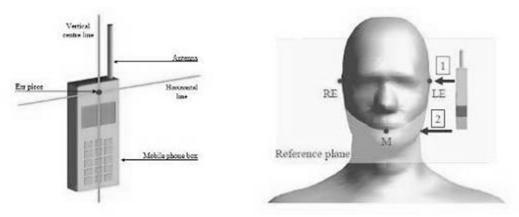


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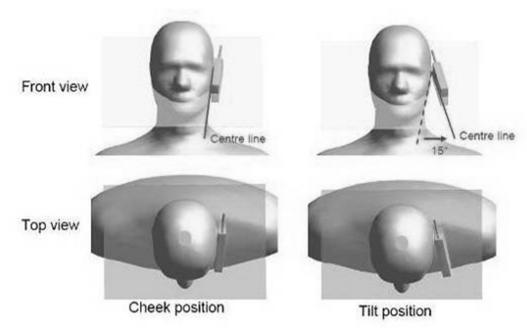
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5.1.4 Definition of the "tilted" position

- a) Position the device in the "cheek" position described above;
- b) While maintaining the device in the reference plane described above and pivoting against the ear, move it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.



F-9. Definition of the reference lines and points, on the phone and on the phantom and initial position



F-10. "Cheek" and "tilt" positions of the mobile phone on the left side



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5.2 Body Exposure Condition

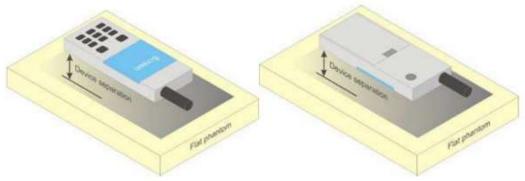
5.2.1 Body-worn accessory exposure conditions

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.

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per FCC KDB Publication 648474 D04, Bodyworn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. 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 is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented. Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.



F-11. Test positions for body-worn devices



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5.2.2 Wireless Router exposure conditions

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets (L x W \geq 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. For devices with form factors smaller than 9 cm x 5 cm, a test separation distance of 5 mm is required.

5.3 Extremity exposure conditions

Per FCC KDB 648474D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as "Phablet".

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at \leq 25 mm from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Due to the overall diagonal dimension of this device is 15.8 cm, the device is not marketed as "Phablet".



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Sucrose: 98+% Pure Sucrose

HEC: Hydroxyethyl Cellulose

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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients	Frequency (MHz)						
(% by weight)	450	700-900	1750-2000	2300-2500	2500-2700		
Water	38.56	40.30	55.24	55.00	54.92		
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23		
Sucrose	56.32	57.90	0	0	0		
HEC	0.98	0.24	0	0	0		
Bactericide	0.19	0.18	0	0	0		
Tween	0	0	44.45	44.80	44.85		

Salt: 99⁺% Pure Sodium Chloride Water: De-ionized, 16 MΩ⁺ resistivity

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL5GHz is composed of the following ingredients:

Water: 50-65%
Mineral oil: 10-30%
Emulsifiers: 8-25%
Sodium salt: 0-1.5%

Table 3: Recipe of Tissue Simulate Liquid



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6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

Tissue	Measured Frequency Target Tissue (±5%)		Measure	d Tissue	Liquid Temp.	Test Date	
Туре	(MHz)	ε _r	σ(S/m)	ε _r	σ(S/m)	(℃)	
750 Head	750	41.9 (39.81~44)	0.89 0.85~0.94)	42.692	0.883	22.3	2022/5/10
835 Head	835	41.5 39.43~43.58)	0.90 0.86~0.95)	41.360	0.921	22.1	2022/5/12
1750 Head	1750	40.1 38.10~42.11)	1.37 (1.30~1.44)	38.840	1.376	22.4	2022/5/13
1900 Head	1900	40.0 (38.00~42.00)	1.40 1.33~1.47)	39.740	1.453	21.9	2022/5/16
2300 Head	2300	39.5 (37.53~41.48)	1.67 (1.59~1.75)	39.625	1.689	22.3	2022/5/15
2450 Head	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	38.105	1.780	22.2	2022/5/17
5250Head	5250	35.9 (34.11~37.70)	4.66 (4.47~4.95)	35.548	4.747	22.1	2022/5/18
5600 Head	5600	35.5 (33.73~37.30)	5.07 (4.82~5.32)	34.596	5.135	22.3	2022/5/19
5750 Head	5750	35.4 (33.63~37.17)	5.22 (4.96~5.48)	34.232	5.307	22.2	2022/5/20

Table 4: Measurement result of Tissue electric parameters



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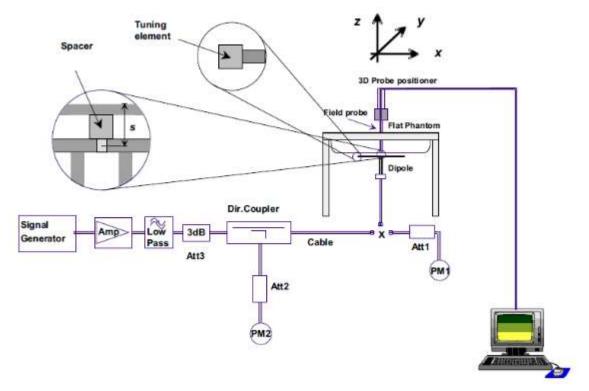


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6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12. the microwave circuit arrangement used for SAR system check



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6.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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6.2.2 Summary System Check Result(s)

Vali	idation Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W) (±10%)	Target SAR (normalized to 1W) (±10%)	Liquid Temp. (℃)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D750V3	Head	2.25	1.48	9.00	5.92	8.48 (7.63~9.33)	5.56 (5.00~6.12)	22.3	2022/5/10
D835V2	Head	2.55	1.68	10.20	6.72	9.52 (8.57~10.47)	6.17 (5.55~6.79)	22.1	2022/5/12
D1750V2	Head	9.41	5.01	37.64	20.04	35.3 (31.77~38.83)	18.7 (16.83~20.57)	22.4	2022/5/13
D1900V2	Head	9.90	5.39	39.60	21.56	39.7 (35.73~43.67)	20.3 (18.27~22.33)	21.9	2022/5/16
D2300V2	Head	12.80	6.10	51.20	24.40	49.3 (44.37~54.23)	23.1 (20.79~25.41)	22.3	2022/5/15
D2450V2	Head	13.00	6.01	52.00	24.04	52.2 (46.98~57.42)	24.5 (22.05~26.95)	22.2	2022/5/17
	Head(5.25GHz)	8.01	2.31	80.10	23.10	78 (70.2~85.8)	21.8 (19.62~23.98)	22.1	2022/5/18
D5GHzV2	Head(5.6GHz)	7.93	2.26	79.30	22.60	79.9 (71.91~87.89)	22.5 (20.25~24.75)	22.3	2022/5/19
	Head(5.75GHz)	7.88	2.24	78.80	22.40	76.4 (68.76~84.04)	21.2 (19.08~23.32)	22.2	2022/5/20

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

According to KDB 941225D01, in the following procedures, the mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode. This is referred to as the 3G SAR test reduction procedure in the following SAR test guidance, where the primary mode is identified in the applicable wireless mode test procedures and the secondary mode is wireless mode being considered for SAR test reduction by that procedure. When the 3G SAR test reduction procedure is not satisfied, it is identified as "otherwise" in the applicable procedures; SAR measurement is required for the secondary mode.

7.2 Operation Configurations

7.2.1 WCDMA Test Configuration

1) . Output Power Verification

Maximum output power is verified on the high, middle and low channels according to procedures described in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC (transmit power control) set to all "1's" for WCDMA/HSDPA or by applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HSDPA, HSPA) are required in the SAR report. All configurations that are not supported by the handset or cannot be measured due to technical or equipment limitations must be clearly identified.

2) . Head SAR

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure

3). Body SAR

SAR for body configurations is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreaing code or DPDCHn, for the highest reported body-worn accessory exposure SAR configuration in 12.2 kbps RMC. When more than 2 DPDCHn are supported by the handset, it may be necessary to configure additional DPDCHn using FTM (Factory Test Mode) or other chipset based test approaches with parameters similar to those used in 384 kbps and 768 kbps RMC.

4) . HSDPA / HSUPA / DC-HSDPA

According to KDB 941225 D01v03, RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is \leq 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA



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a) HSDPA

HSDPA is configured according to the applicable UE category of a test device. The number of HS-DSCH/HS-PDSCHs, HARQ processes, minimum inter-TTI interval, transport block sizes and RV coding sequence are defined by the H-set. To maintain a consistent test configuration and stable transmission conditions, QPSK is used in the H-set for SAR testing. HS-DPCCH should be configured with a CQI feedback cycle of 4 ms and a CQI repetition factor of 2 to maintain a constant rate of active CQI slots. DPCCH and DPDCH gain factors(β c, β d), and HS-DPCCH power offset parameters (Δ ACK, Δ NACK, Δ CQI) are set according to values indicated in the following table The CQI value is determined by the UE category, transport block size, number of HS-PDSCHs and modulation used in the H-set.

Sub-test	βс	Bd	βd(SF)	βc/βd	βhs	CM(dB)	MPR (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0	0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note1: \triangle ACK, \triangle NACK and \triangle CQI= 8 Ahs = β hs/ β c=30/15 β hs=30/15* β c

Note2:For the HS-DPCCH power mask requirement test in clause 5.2C,5.7A,and the Error Vector Magnitude(EVM) with HS-DPCCH test in clause 5.13.1.A,and HSDPA EVM with phase discontinuity in clause 5.13.1AA, \triangle ACK and \triangle NACK= 8 (Ahs=30/15) with β hs=30/15* β c,and \triangle CQI=

7 (Ahs=24/15) with β hs= $24/15*\beta$ c.

Note3: CM=1 forβc/βd =12/15, βhs/βc=24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

The measurements were performed with a Fixed Reference Channel (FRC) and H-Set 1 QPSK.

Parameter	Value
Farameter	Value
Nominal average inf. bit rate	534 kbit/s
Inter-TTI Distance	3 TTI"s
Number of HARQ Processes	2 Processes
Information Bit Payload	3202 Bits
MAC-d PDU size	336 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	4800 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	9600 SMLs
Coding Rate	0.67
Number of Physical Channel Codes	5

Table 6: settings of required H-Set 1 QPSK acc. to 3GPP 34.121



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HS-DSCH Category	Maximum HS-DSCH Codes Received	Minimum Inter- TTI Interval	MaximumH S-DSCH Transport BlockBits/HS- DSCH TTI	Total Soft Channel Bits
1	5	3	7298	19200
2	5	3	7298	28800
3	5	2	7298	28800
4	5	2	7298	38400
5	5	1	7298	57600
6	5	1	7298	67200
7	10	1	14411	115200
8	10	1	14411	134400
9	15	1	25251	172800
10	15	1	27952	172800
11	5	2	3630	14400
12	5	1	3630	28800
13	15	1	34800	259200
14	15	1	42196	259200
15	15	1	23370	345600
16	15	1	27952	345600

Table 7: HSDPA UE category

b) HSUPA

Due to inner loop power control requirements in HSUPA, a commercial communication test set should be used for the output power and SAR tests. The 12.2 kbps RMC, FRC H-set 1 and E-DCH configurations for HSUPA should be configured according to the values indicated below as well as other applicable procedures described in the WCDMA Handset and Release 5 HSUPA Data Device sections of 3G device.



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Sub -test≠	βοθ	βа↔	βd (SF)ψ	β₀∕β⋴ℴ	β _{hs} (1)∉	βεσε	β_{ed}	β _e o+ (SF	β _{ed+} (code	CM(2)+ (dB)+2	MP Re (dB)e	AG ⁽⁴)↔ Inde x↔	E- TFC I&
1₽	11/15(3)43	15/15(3)	64₽	11/15(3)49	22/15₽	209/22 5↔	1039/225₽	4₽	1.	1.0∉	0.0₽	20₽	75₽
20	6/15₽	15/15₽	64€	6/15₽	12/15₽	12/15↔	94/75₽	40	10	3.0₽	2.0₽	120	67₽
3₽	15/15₽	9/15₽	64₽	15/9+	30/15₽	30/15₽	β _{ed1} :47/1 5 ₄ β _{ed2:47/1} 5 ₀	4₽	2.0	2.0₽	1.0₽	<u>15</u> ₽	920
40	2/15₽	15/15₽	64₽	2/15₽	4/15↔	2/15€	56/75₽	40	10	3.0₽	2.0₽	17 ₽	71₽
5€	15/15(4)47	15/15(4)	64₽	15/15(4)43	30/15₽	24/15₽	134/15₽	4₽	1₽	1.0₽	0.0₽	210	81+

Note 1: \triangle ACK, \triangle NACK and \triangle CQI=8 $A_{hs} = \beta_{hs}/\beta_{e} = 30/15$ $\beta_{hs} = 30/15 * \beta_{e+1}$

Note 2: CM = 1 for β_c/β_d = 12/15, β_{hs}/β_c = 24/15. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

Note 6: βed can not be set directly; it is set by Absolute Grant Value.

Table 8: Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum Speading Factor	Maximum E-DCH Transport Block Bits	Max Rate (Mbps)
1	1	4	10	4	7110	0.7296
2	2	8	2	4	2798	4 4500
2	2	4	10	4	14484	1.4592
3	2	4	10	4	14484	1.4592
24	2	8	2	2	5772	2.9185
4	2	4	10	2	20000	2.00
5	2	4	10	2	20000	2.00
6	4	8	10	2SF2&2SF	11484	5.76
(No DPDCH)	4	4	2	4	20000	2.00
7	4	8	2	2SF2&2SF	22996	?
(No DPDCH)	4	4	10	4	20000	?

NOTE: When 4 codes are transmitted in parallel, two codes shall be transmitted with SF2 and two with SF4.UE categories 1 to 6 support QPSK only. UE category 7 supports QPSK and 16QAM.(TS25.306-7.3.0).

Table 9: HSUPA UE category



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c) DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a Second serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0

Table E.5.0: Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/lor	dB	-10
P-CCPCH and SCH_Ec/lor	dB	-12
PICH _Ec/lor	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/lor	dB	-5
OCNS_Ec/lor	dB	-3.1

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

The measurements were performed with a Fixed Reference Channel (FRC) H-Set 12 with QPSK.

Parameter	Value
Nominal average inf. bit rate	60 kbit/s
Inter-TTI Distance	1 TTI's
Number of HARQ Processes	6 Processes
Information Bit Payload	120 Bits
Number Code Blocks	1 Block
Binary Channel Bits Per TTI	960 Bits
Total Available SMLs in UE	19200 SMLs
Number of SMLs per HARQ Process	3200 SMLs
Coding Rate	0.15
Number of Physical Channel Codes	1

Table 10: settings of required H-Set 12 QPSK acc. to 3GPP 34.121

Note:

- 1. The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table above.
- 2. Maximum number of transmission is limited to 1,i.e.,retransmission is not allowed. The redundancy and constellation version 0 shall be used.





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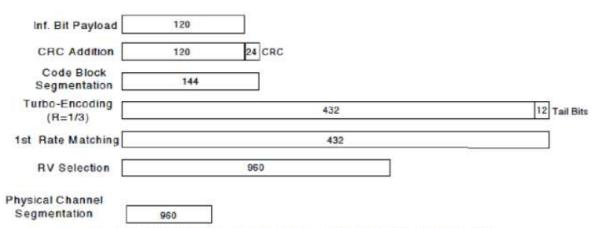


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 5 procedures. A summary of subtest settings are illustrated below:

Sub-test₽	βe	$\beta_{d^{\omega}}$	β _d (SF)	$\beta_c \cdot / \beta_{d^{e^2}}$	β _{hs} (1)	CM(dB)(2)	MPR (dB)₽
1₽	2/15₽	15/15₽	64₽	2/15₽	4/15₽	0.0₽	0€
2₽	12/15(3)	15/15(3)	64₽	12/15(3)	24/15₽	1.0₽	0₽
3₽	15/15₽	8/15₽	64₽	15/8₽	30/15₽	1.5₽	0.5₽
4.	15/15₽	4/15₽	64₽	15/4₽	30/15₽	1.5₽	0.5₽

Note: \triangle ACK, \triangle NACK and \triangle CQI=8 $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c = 30/15$

Note 2: CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases. Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1,TF1) to $\beta_c=11/15$ and $\beta_d=15/15$.

Up commands are set continuously to set the UE to Max power.

- 1. The Dual Carriers transmission only applies to HSDPA physical channels
- 2. The Dual Carriers belong to the same Node and are on adjacent carriers.
- 3. The Dual Carriers do not support MIMO to serve UEs configured for dual cell operation
- 4. The Dual Carriers operate in the same frequency band.
- 5. The device doesn't support the modulation of 16QAM in uplink but 64QAM in downlink for DC-HSDPA mode.
- 6. The device doesn't support carrier aggregation for it just can operate in Release 8.





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d) HSPA+

Per KDB941225D01, SAR is required for Rel. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction procedure is applied to (uplink) HSPA+ with 12.2 kbps RMC as the primary mode. Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.

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

- 1	Sub- test∂	β _e ↓ (Note3)↓	βd⁴	β _{HS} ↔ (Note1) ↔	β _{ec} ₊/	β _{ed} . (2xSF2) .		CM⊬ (dB)⊬	MPR <i>⊍</i> (dB)√	Index	(Note 5)	E-TFCI (boost)∂	
						(Note 4)₽	(Note 4)₽	(Note 2)∉	(Note 2)↔	(Note 4)₽			
	• 1↩	1₽	04□	30/15₽	30/15	βed1: 30/15↔	βed3: 24/15↔	3.5₽	2.5₽	14₽	105₽	105₽	Ę.
						βed2: 30/15₽	βed4: 24/15₽						

Note 1: ΔACK , $\Delta NACK$ and $\Delta COL = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

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

Note 3: DPDCH is not configured, therefore the β_0 is set to 1 and β_d = 0 by default.

Note 4: βed can not be set directly; it is set by Absolute Grant Value. ₽

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



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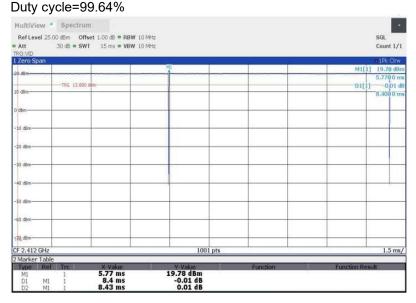
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7.2.2 WiFi Test Configuration

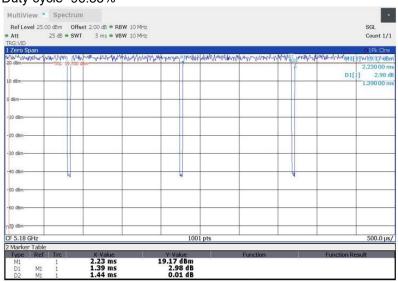
A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.2.2.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b:



2) Wi-Fi 5GHz 802.11a: Duty cycle=96.53%





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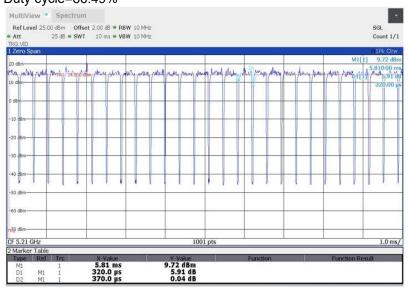
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3) Wi-Fi 5GHz 802.11ac-80M: Duty cycle=86.49%





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7.2.2.2 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

- 1) . When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- 2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) . For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.

7.2.2.3 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration. For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the *reported* SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until *reported* SAR is \leq 1.2 W/kg or all required channels are tested.

7.2.2.4 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

 When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.



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When the highest *reported* SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

- 2) The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
 - SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
 - b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the *reported* SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 3) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
 - replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
 - b) replace "initial test configuration" with "all tested higher output power configurations"





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7.2.2.5 2.4 GHz WiFi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

• 802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) . When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) . When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) . When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) . When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.





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7.2.2.6 5 GHz WiFi SAR Procedures

U-NII-1 and U-NII-2A Bands

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.
- When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.
- 3) The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

U-NII-2C and U-NII-3 Bands

The frequency range covered by these bands is 380 MHz (5.47 - 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. when Terminal Doppler Weather Radar (TDWR) restriction applies, all channels that operate at 5.60 - 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels. When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.





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• OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- 1) The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- 2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
 - a) The channel closest to mid-band frequency is selected for SAR measurement.
 - b) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 a/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.





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7.2.3 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

Modulation	Channe	MPR (dB)					
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	>4	> 8	> 12	> 16	> 18	. ≤1
16 QAM	≤5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤8	≤ 12	≤ 16	≤ 18	≤2
64 QAM	> 5	>4	> 8	> 12	> 16	> 18	≤3
256 QAM				≥ 1			≤ 5

C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.



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E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.



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Test Result 8

Measurement of RF conducted Power

8.1.1 Conducted Power of WCDMA

		WCDMA Band II			
	Ave	erage Conducted Powe	er(dBm)		
Channel		9262	9400	9538	Tune up
WCDMA	12.2kbps RMC	23.08	23.12	23.09	24.00
VVCDIVIA	12.2kbps AMR	23.05	23.07	23.04	24.00
	Subtest 1	22.28	22.27	22.38	23.00
HSDPA	Subtest 2	22.25	22.34	22.27	23.00
HODPA	Subtest 3	21.80	21.82	21.83	22.50
	Subtest 4	21.98	21.96	21.85	22.50
	Subtest 1	22.29	22.22	22.27	23.00
	Subtest 2	22.28	22.26	22.29	23.00
HSUPA	Subtest 3	21.83	21.93	21.97	22.50
	Subtest 4	21.87	21.94	21.82	22.50
	Subtest 5	22.25	22.29	22.34	23.00
	Subtest 1	20.26	20.26	20.37	21.00
DC-HSDPA	Subtest 2	21.23	21.26	21.35	22.00
DC-USDPA	Subtest 3	20.21	20.26	20.21	21.00
	Subtest 4	22.22	22.29	22.32	23.00
HSPA+	16QAM	19.88	19.91	19.87	20.50

		WCDMA Band IV			
	Ave	rage Conducted Powe	er(dBm)		
Channel		1312 1412		1513	Tune up
MCDMA	12.2kbps RMC	23.01	23.06	22.98	24.00
WCDMA	12.2kbps AMR	22.83	22.89	22.77	24.00
	Subtest 1	22.29	22.32	22.25	23.00
LICDDA	Subtest 2	22.26	22.34	22.24	23.00
HSDPA -	Subtest 3	21.53	21.64	21.67	22.50
	Subtest 4	21.62	21.63	21.58	22.50
	Subtest 1	22.24	22.21	22.32	23.00
	Subtest 2	22.25	22.38	22.23	23.00
HSUPA	Subtest 3	21.64	21.60	21.59	22.50
	Subtest 4	21.59	21.52	21.56	22.50
	Subtest 5	22.32	22.33	22.32	23.00
	Subtest 1	20.05	20.15	20.03	21.00
DC HCDDA	Subtest 2	21.11	21.08	21.12	22.00
DC-HSDPA	Subtest 3	20.13	20.01	20.16	21.00
	Subtest 4	22.23	22.38	22.35	23.00
HSPA+	16QAM	19.62	19.64	19.48	20.50



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		WCDMA Band V			
	Avera	age Conducted Power	(dBm)		
Ch	nannel	4132	4182	4233	Tune up
WCDMA	12.2kbps RMC	23.42	23.48	23.41	24.00
WCDIVIA	12.2kbps AMR	23.34	23.37	23.35	24.00
	Subtest 1	22.48	22.44	22.54	23.00
HSDPA	Subtest 2	22.53	22.50	22.58	23.00
порга	Subtest 3	22.05	21.98	21.90	22.50
	Subtest 4	21.93	22.06	22.01	22.50
	Subtest 1	22.49	22.51	22.52	23.00
	Subtest 2	22.44	22.54	22.52	23.00
HSUPA	Subtest 3	21.99	21.92	22.00	22.50
	Subtest 4	21.93	21.93	22.00	22.50
	Subtest 5	22.48	22.54	22.45	23.00
	Subtest 1	20.41	20.57	20.43	21.00
DC HCDDA	Subtest 2	21.52	21.57	21.53	22.00
DC-HSDPA	Subtest 3	20.55	20.54	20.41	21.00
	Subtest 4	22.54	22.43	22.56	23.00
HSPA+	16QAM	19.87	19.96	19.91	20.50

Note:

1) when the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.



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8.1.2 Conducted Power of LTE

	LTE Band 2 H	lotspot Off		Conducted Power(dBm)						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun			
Danuwium	Modulation	KD SIZE	KB oliset	18607	18900	19193	Tune up			
		1	0	24.12	24.17	24.02	25.00			
		1	2	24.22	24.31	24.25	25.00			
		1	5	24.15	24.18	24.32	25.00			
	QPSK	3	0	24.19	24.23	24.26	25.00			
		3	2	24.21	24.28	24.31	25.00			
		3	3	24.14	24.26	24.22	25.00			
1.4MHz		6	0	23.29	23.33	23.31	24.00			
1.4WITZ		1	0	23.24	23.39	23.32	24.00			
		1	2	23.42	23.52	23.56	24.00			
		1	5	23.41	23.49	23.43	24.00			
	16QAM	3	0	23.25	23.31	23.26	24.00			
		3	2	23.31	23.25	23.32	24.00			
		3	3	23.24	23.34	23.29	24.00			
		6	0	22.29	22.44	22.36	23.00			
5 1 1 11		55.	55 % 1	Channel	Channel	Channel	-			
Bandwidth	Modulation	RB size	RB offset	18615	18900	19185	Tune up			
	QPSK	1	0	24.15	24.27	24.16	25.00			
		1	7	24.26	24.37	24.34	25.00			
		1	14	24.21	24.22	24.19	25.00			
		8	0	23.32	23.35	23.39	24.00			
		8	4	23.21	23.31	23.23	24.00			
		8	7	23.24	23.26	23.28	24.00			
		15	0	23.23	23.28	23.34	24.00			
3MHz	16QAM	1	0	23.27	23.38	23.43	24.00			
		1	7	23.43	23.64	23.57	24.00			
		1	14	23.19	23.43	23.46	24.00			
		8	0	22.34	22.37	22.51	23.00			
		8	4	22.21	22.25	22.34	23.00			
		8	7	22.28	22.32	22.27	23.00			
		15	0	22.14	22.22	22.32	23.00			
				Channel	Channel	Channel	_			
Bandwidth	Modulation	RB size	RB offset	18625	18900	19175	Tune up			
		1	0	24.13	24.09	24.08	25.00			
		1	13	24.16	24.17	24.21	25.00			
		1	24	24.21	24.09	24.12	25.00			
	QPSK	12	0	23.21	23.26	23.35	24.00			
		12	6	23.23	23.31	23.32	24.00			
		12	13	23.24	23.27	23.25	24.00			
		25	0	23.31	23.25	23.31	24.00			
5MHz		1	0	23.34	23.46	23.43	24.00			
		1	13	23.38	23.28	23.39	24.00			
	-	1	24	23.23	23.31	23.43	24.00			
	16QAM	12	0	22.29	22.21	22.29	23.00			
	100/1111	12	6	22.31	22.34	22.32	23.00			
		12	13	22.21	22.28	22.39	23.00			
		25	0	22.28	22.27	22.23	23.00			



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				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	18650	18900	19150	Tune up
		1	0	24.14	24.24	24.12	25.00
		<u>.</u> 1	25	24.19	24.34	24.37	25.00
	İ	<u>.</u> 1	49	24.24	24.19	24.22	25.00
	QPSK	25	0	23.24	23.27	23.30	24.00
		25	13	23.26	23.31	23.34	24.00
		25	25	23.27	23.38	23.41	24.00
	 	50	0	23.34	23.34	23.37	24.00
10MHz		1	0	23.37	23.46	23.49	24.00
	+	<u></u>	25	23.41	23.49	23.52	24.00
	-	1	49	23.26	23.54	23.57	24.00
	16001						
	16QAM	25	0	22.32	22.36	22.39	23.00
		25	13	22.34	22.34	22.37	23.00
	<u> </u>	25	25	22.24	22.31	22.34	23.00
		50	0	22.31	22.27	22.30	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	05.00
	0000	1	0	24.09	24.13	24.12	25.00
		1	38	24.15	24.21	24.24	25.00
		1	74	24.00	24.14	24.17	25.00
	QPSK	36	0	23.28	23.27	23.38	24.00
	<u> </u>	36	18	23.20	23.24	23.27	24.00
	<u> </u>	36	39	23.17	23.28	23.31	24.00
15MHz		75	0	23.17	23.21	23.24	24.00
1011112	16QAM	1	0	23.13	23.33	23.36	24.00
		1	38	23.27	23.36	23.37	24.00
		1	74	23.34	23.39	23.42	24.00
		36	0	22.17	22.27	22.30	23.00
		36	18	22.13	22.21	22.28	23.00
		36	39	22.15	22.26	22.29	23.00
		75	0	22.20	22.35	22.35	23.00
Dondwidth	Modulation	DR oize	DD offeet	Channel	Channel	Channel	Tuna un
Bandwidth	Modulation	RB size	RB offset	18700	18900	19100	Tune up
		1	0	24.35	24.38	24.32	25.00
	İ	1	50	24.20	24.34	24.27	25.00
	İ	1	99	24.13	24.03	24.20	25.00
	QPSK	50	0	23.29	23.35	23.31	24.00
	İ	50	25	23.23	23.24	23.30	24.00
	İ	50	50	23.27	23.27	23.34	24.00
		100	0	23.20	23.23	23.21	24.00
20MHz		1	0	23.32	23.41	23.39	24.00
		1	50	23.35	23.41	23.40	24.00
		<u>.</u> 1	99	23.38	23.26	23.45	24.00
	16QAM	50	0	22.26	22.23	22.33	23.00
		50	25	22.20	22.28	22.31	23.00
		50	50	22.25	22.32	22.32	23.00
		100	0	22.23	22.24	22.32	23.00



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	LTE Band 2 I	Hotspot On			Conducted	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danuwium	Wiodulation	RD SIZE	RB oliset	18607	18900	19193	Tune up
		1	0	23.23	23.26	23.17	24.00
		1	2	23.32	23.44	23.36	24.00
		1	5	23.21	23.24	23.24	24.00
	QPSK	3	0	23.38	23.41	23.32	24.00
		3	2	23.29	23.37	23.37	24.00
		3	3	23.34	23.34	23.33	24.00
1.4MHz		6	0	23.37	23.42	23.32	24.00
1. 4 IVITIZ		1	0	23.32	23.27	23.46	24.00
		1	2	23.44	23.65	23.33	24.00
		1	5	23.43	23.56	23.45	24.00
	16QAM	3	0	23.38	23.42	23.43	24.00
		3	2	23.24	23.31	23.23	24.00
		3	3	23.26	23.34	23.36	24.00
		6	0	22.54	22.57	22.49	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwium	Modulation	RD SIZE	RD Ollset	18615	18900	19185	rune up
		1	0	23.69	23.73	23.51	24.00
		1	7	23.67	23.86	23.45	24.00
		1	14	23.45	23.65	23.48	24.00
	QPSK	8	0	23.49	23.46	23.37	24.00
		8	4	23.36	23.39	23.47	24.00
		8	7	23.45	23.45	23.46	24.00
3MHz		15	0	23.37	23.42	23.48	24.00
SIVIFIZ		1	0	23.34	23.38	23.53	24.00
		1	7	23.39	23.64	23.34	24.00
		1	14	23.48	23.43	23.35	24.00
	16QAM	8	0	22.32	22.37	22.38	23.00
		8	4	22.34	22.25	22.39	23.00
		8	7	22.34	22.32	22.43	23.00
		15	0	22.38	22.22	22.33	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawiatii	Wodulation	IND SIZE	ND oliset	18625	18900	19175	rune up
		1	0	23.39	23.36	23.32	24.00
		1	13	23.42	23.39	23.36	24.00
		1	24	23.34	23.43	23.38	24.00
	QPSK	12	0	23.44	23.41	23.45	24.00
		12	6	23.35	23.39	23.36	24.00
		12	13	23.34	23.38	23.39	24.00
5MHz		25	0	23.42	23.37	23.43	24.00
OHII IZ		1	0	23.39	23.44	23.34	24.00
		1	13	23.46	23.48	23.47	24.00
		1	24	23.47	23.37	23.47	24.00
	16QAM	12	0	22.43	22.42	22.43	23.00
		12	6	22.35	22.54	22.34	23.00
		12	13	22.36	22.43	22.37	23.00
		25	0	22.44	22.48	22.38	23.00



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				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	18650	18900	19150	Tune up
		1	0	23.34	23.39	23.28	24.00
		1	25	23.45	23.57	23.43	24.00
		1	49	23.45	23.37	23.43	
	ODSK						24.00
	QPSK	25	0	23.54	23.45	23.45	24.00
		25	13	23.37	23.48	23.43	24.00
		25	25	23.47	23.51	23.39	24.00
10MHz		50	0	23.43	23.54	23.48	24.00
		1	0	23.49	23.41	23.45	24.00
		1	25	23.45	23.69	23.47	24.00
		1	49	23.43	23.48	23.45	24.00
	16QAM	25	0	22.51	22.53	22.39	23.00
		25	13	22.45	22.42	22.48	23.00
		25	25	22.43	22.47	22.58	23.00
		50	0	22.44	22.48	22.56	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Bullawiatii	Wodulation	118 6126	TAB GIISCE	18675	18900	19125	rane ap
		1	0	23.34	23.31	23.25	24.00
		1	38	23.38	23.41	23.45	24.00
		1	74	23.35	23.25	23.36	24.00
	QPSK	36	0	23.58	23.44	23.38	24.00
		36	18	23.54	23.46	23.46	24.00
		36	39	23.45	23.51	23.33	24.00
45801-		75	0	23.43	23.48	23.47	24.00
15MHz		1	0	23.44	23.57	23.45	24.00
		1	38	23.43	23.47	23.53	24.00
		1	74	23.34	23.39	23.48	24.00
	16QAM	36	0	22.54	22.47	22.34	23.00
		36	18	22.56	22.42	22.45	23.00
		36	39	22.46	22.43	22.34	23.00
		75	0	22.39	22.39	22.46	23.00
				Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	18700	18900	19100	Tune up
		1	0	23.41	23.69	23.46	24.00
		1	50	23.34	23.52	23.39	24.00
		1	99	23.38	23.15	23.20	24.00
	QPSK	50	0	23.26	23.57	23.41	24.00
	Q. S.K	50	25	23.25	23.43	23.36	24.00
		50	50	23.23	23.56	23.34	24.00
		100	0	23.20	23.39	23.27	24.00
20MHz		1	0	23.32	23.41	23.39	24.00
		1	50	23.35	23.41	23.40	24.00
	-	1	99	23.38	23.26	23.45	24.00
	16QAM	50	0	22.26	23.26	22.33	23.00
	IOQAW						23.00
		50	25	22.20	22.28	22.31	
		50	50	22.25	22.32	22.32	23.00
		100	0	22.34	22.24	22.38	23.00



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	LTE Band 4 l	Hotspot Off			Conducted	Power(dBm)	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
Danuwium	Iviodulation	KD SIZE	RB oliset	19957	20175	20393	Tune up
		1	0	24.02	24.08	24.06	25.00
		1	2	24.15	24.23	24.26	25.00
		1	5	24.07	24.04	24.07	25.00
	QPSK	3	0	23.16	24.18	24.21	25.00
		3	2	23.10	24.13	24.16	25.00
		3	3	23.07	24.18	24.21	25.00
1.4MHz		6	0	23.12	23.21	23.24	24.00
1.4111112		1	0	23.13	23.18	23.21	24.00
		1	2	23.24	23.12	23.15	24.00
		1	5	23.32	23.05	23.08	24.00
	16QAM	3	0	22.20	22.13	22.16	24.00
		3	2	22.18	22.11	22.14	24.00
		3	3	22.14	22.09	22.12	24.00
		6	0	22.18	22.10	22.13	23.00
Dan du dalah	Madulatian	DD -i	DD offered	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	19965	20175	20385	Tune up
		1	0	24.03	24.15	24.19	25.00
		1	7	24.08	24.16	24.13	25.00
		1	14	24.01	24.08	24.00	25.00
	QPSK	8	0	23.12	23.17	23.11	24.00
		8	4	23.21	23.11	23.20	24.00
		8	7	23.04	23.08	23.07	24.00
08411-		15	0	23.19	23.13	23.18	24.00
3MHz		1	0	23.11	23.14	23.10	24.00
		1	7	23.18	23.25	23.17	24.00
		1	14	23.20	23.33	23.19	24.00
	16QAM	8	0	22.24	22.21	22.09	23.00
		8	4	22.19	22.19	22.18	23.00
		8	7	22.13	22.15	22.12	23.00
		15	0	22.17	22.19	22.16	23.00
Dan dwidth	Madulation	RB size	DD offeet	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RD SIZE	RB offset	19975	20175	20375	Tune up
		1	0	24.01	24.02	24.03	25.00
		1	13	24.13	24.08	24.15	25.00
		1	24	24.08	24.02	24.11	25.00
	QPSK	12	0	23.11	23.19	23.14	24.00
		12	6	23.15	23.18	23.18	24.00
		12	13	23.21	23.15	23.19	24.00
5MHz		25	0	23.14	23.13	23.17	24.00
SIVITZ		1	0	23.22	23.16	23.25	24.00
		1	13	23.13	23.23	23.16	24.00
		1	24	23.14	23.17	23.19	24.00
	16QAM	12	0	22.16	22.12	22.19	23.00
		12	6	22.31	22.18	22.34	23.00
		12	13	22.18	22.11	22.27	23.00
		25	0	22.13	22.21	22.16	23.00



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				Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	20000	20175	20350	Tune up
		1	0	24.04	24.11	24.12	25.00
	†	<u>.</u> 1	25	24.09	24.09	24.25	25.00
	İ	<u>·</u> 1	49	24.17	24.13	24.20	25.00
	QPSK	25	0	23.22	23.18	23.24	24.00
	QI OIL	25	13	23.17	23.19	23.20	24.00
		25	25	23.34	23.21	23.19	24.00
	<u> </u>	50	0	23.21	23.26	23.24	24.00
10MHz		1	0	23.16	23.23	23.19	24.00
		<u>'</u> 1	25	23.19	23.13	23.16	24.00
	 	<u>'</u> 1	49	23.22	23.17	23.19	24.00
	16QAM	25	0	22.14	22.18	22.20	23.00
	IOQAM	25	13	22.14	22.16	22.27	23.00
	<u> </u>	25	25	22.12	22.15	22.27	23.00
	 	50	0	22.12	22.15	22.27	
		50	U			Channel	23.00
Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel	20325	Tune up
		1	0	24.05	20175		25.00
	 				24.05	24.08	
		1	38	24.12	24.16	24.13	25.00
	ODOK	1 00	74	24.17	24.01	24.16	25.00
	QPSK	36	0	23.17	23.29	23.14	24.00
	ļ	36	18	23.14	23.21	23.10	24.00
		36	39	23.31	23.18	23.33	24.00
15MHz		75	0	23.22	23.18	23.23	24.00
	<u> </u>	1	0	23.26	23.14	23.25	24.00
	<u> </u>	1	38	23.35	23.28	23.34	24.00
		11	74	23.21	23.35	23.20	24.00
	16QAM	36	0	22.19	22.18	22.25	23.00
		36	18	22.17	22.14	22.14	23.00
		36	39	22.31	22.16	22.28	23.00
		75	0	22.32	22.21	22.37	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
		. 12 0.20	112 011001	20050	20175	20300	·
		1	0	24.32	24.34	24.31	25.00
		1	50	24.21	24.17	24.25	25.00
		1	99	24.01	23.83	24.04	25.00
	QPSK	50	0	23.34	23.36	23.35	24.00
		50	25	23.19	23.23	23.22	24.00
		50	50	23.22	23.21	23.19	24.00
20MHz		100	0	23.19	23.24	23.22	24.00
ZUIVITIZ		1	0	23.26	23.28	23.29	24.00
		1	50	23.28	23.34	23.25	24.00
		1	99	23.28	23.11	23.19	24.00
	16QAM	50	0	22.14	22.20	22.20	23.00
		50	25	22.19	22.13	22.22	23.00
		50	50	22.21	22.15	22.27	23.00
	İ	100	0	22.29	22.16	22.34	23.00



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	LTE Band 4 l	Hotspot On			Conducted	Power(dBm)	
				Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	19957	20175	20393	Tune up
		1	0	22.26	22.23	22.16	23.00
		1	2	22.23	22.56	22.34	23.00
		1	5	22.34	22.21	22.34	23.00
	QPSK	3	0	22.45	22.36	22.27	23.00
		3	2	22.37	22.35	22.24	23.00
		3	3	22.13	22.28	22.31	23.00
		6	0	22.24	22.43	22.36	23.00
1.4MHz		1	0	22.25	22.19	22.16	23.00
		1	2	22.25	22.26	22.21	23.00
		1	5	22.33	22.28	22.16	23.00
	16QAM	3	0	22.20	22.13	22.16	23.00
		3	2	22.18	22.11	22.14	23.00
		3	3	22.14	22.09	22.12	23.00
		6	0	22.18	22.10	22.13	23.00
5			DD " 1	Channel	Channel	Channel	-
Bandwidth	Modulation	RB size	RB offset	19965	20175	20385	Tune up
		1	0	22.23	22.34	22.23	23.00
		1	7	22.49	22.28	22.35	23.00
		1	14	22.34	22.26	22.36	23.00
	QPSK	8	0	22.45	22.35	22.43	23.00
		8	4	22.49	22.31	22.38	23.00
		8	7	22.43	22.24	22.34	23.00
3MHz		15	0	22.34	22.34	22.36	23.00
SIVITZ		1	0	22.21	22.38	22.54	23.00
		1	7	22.29	22.56	22.23	23.00
		1	14	22.19	22.67	22.21	23.00
	16QAM	8	0	22.34	22.21	22.43	23.00
		8	4	22.19	22.23	22.18	23.00
		8	7	22.17	22.15	22.12	23.00
		15	0	22.18	22.15	22.32	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwium	Modulation	IND SIZE	IND Oliset	19975	20175	20375	rune up
		1	0	22.18	22.16	22.21	23.00
		1	13	22.12	22.29	22.21	23.00
		1	24	22.32	22.08	22.25	23.00
	QPSK	12	0	22.24	22.27	22.21	23.00
		12	6	22.19	22.34	22.19	23.00
		12	13	22.14	22.32	22.18	23.00
5MHz	5MHz	25	0	22.24	22.37	22.32	23.00
V 12		1	0	22.27	22.34	22.23	23.00
		1	13	22.19	22.28	22.32	23.00
		1	24	22.19	22.21	22.19	23.00
	16QAM	12	0	22.16	22.12	22.19	23.00
		12	6	22.31	22.18	22.34	23.00
		12	13	22.21	22.19	22.24	23.00
		25	0	22.13	22.34	22.16	23.00



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				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	20000	20175	20350	Tune up
		1	0	22.21	22.34	22.34	23.00
	†	<u>·</u> 1	25	22.24	22.37	22.32	23.00
	†	<u>·</u> 1	49	22.32	22.23	22.21	23.00
	QPSK	25	0	22.35	22.44	22.18	23.00
	Qi Oit	25	13	22.25	22.35	22.18	23.00
		25	25	22.19	22.38	22.28	23.00
	†	50	0	22.24	22.52	22.16	23.00
10MHz		1	0	22.13	22.43	22.28	23.00
		<u>'</u> 1	25	22.18	22.35	22.18	23.00
	 	<u>'</u> 1	49	22.17	22.34	22.16	23.00
	16001		0	22.17	22.34	22.24	23.00
	16QAM	25 25	13	22.16	22.36	22.27	23.00
					_		
	-	25	25	22.16	22.15	22.27	23.00
		50	0	22.19	22.45	22.23	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
		4	0	20025	20175	20325	22.00
	}	1	0	22.32	22.33	22.19	23.00
	<u> </u>	1	38	22.23	22.35	22.26	23.00
	0.001/	1	74	22.32	22.25	22.28	23.00
	QPSK	36	0	22.19	22.43	22.18	23.00
		36	18	22.24	22.31	22.21	23.00
		36	39	22.25	22.29	22.16	23.00
15MHz		75	0	22.26	22.32	22.17	23.00
		1	0	22.23	22.41	22.23	23.00
		1	38	22.28	22.38	22.34	23.00
		1	74	22.31	22.39	22.24	23.00
	16QAM	36	0	22.19	22.35	22.25	23.00
		36	18	22.17	22.14	22.14	23.00
		36	39	22.32	22.16	22.34	23.00
		75	0	22.27	22.39	22.37	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwiutii	Wodulation	IVD SIZE	IND Ollset	20050	20175	20300	Tune up
		1	0	22.43	22.61	22.53	23.00
		1	50	22.19	22.32	22.27	23.00
		1	99	22.34	22.39	22.45	23.00
	QPSK	50	0	22.28	22.49	22.34	23.00
	Ī	50	25	22.18	22.35	22.35	23.00
	İ	50	50	22.22	22.27	22.28	23.00
	İ	100	0	22.28	22.29	22.19	23.00
20MHz		1	0	22.18	22.34	22.32	23.00
		1	50	22.28	22.23	22.15	23.00
		1	99	22.23	22.34	22.18	23.00
	16QAM	50	0	22.21	22.20	22.20	23.00
		50	25	22.19	22.13	22.14	23.00
	 	50	50	22.24	22.15	22.27	23.00
		100	0	22.29	22.16	22.39	23.00



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	LTE Ba	and 5			Conducted	Power(dBm)	
Daniel delle	NA - ded - di - c	DD -!	DD -#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20407	20525	20643	Tune up
		1	0	24.31	24.34	24.25	25.00
		1	2	24.25	24.28	24.21	25.00
		1	5	24.27	24.24	24.17	25.00
	QPSK	3	0	24.23	24.21	24.27	25.00
		3	2	24.31	24.27	24.33	25.00
		3	3	24.24	24.18	24.33	25.00
1.4MHz		6	0	23.49	23.47	23.45	24.00
1.4WHZ		1	0	23.45	23.43	23.39	24.00
		1	2	23.47	23.76	23.55	24.00
		1	5	23.59	23.72	23.59	24.00
	16QAM	3	0	23.56	23.42	23.54	24.00
		3	2	23.55	23.45	23.56	24.00
		3	3	23.45	23.47	23.49	24.00
		6	0	22.67	22.57	22.71	23.00
Donduvidth	Madulation	DD size	DD offeet	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	RB offset	20415	20525	20635	Tune up
		1	0	24.31	24.35	24.26	25.00
		1	7	24.36	24.33	24.29	25.00
		1	14	24.25	24.13	24.22	25.00
	QPSK	8	0	23.36	23.36	23.39	24.00
		8	4	23.43	23.47	23.43	24.00
		8	7	23.47	23.42	23.34	24.00
3MHz		15	0	23.44	23.32	23.43	24.00
SIVITZ		1	0	23.49	23.55	23.48	24.00
		1	7	23.56	23.42	23.39	24.00
	1	14	23.46	23.51	23.58	24.00	
	16QAM	8	0	22.59	22.54	22.54	23.00
		8	4	22.54	22.49	22.57	23.00
		8	7	22.58	22.45	22.37	23.00
		15	0	22.34	22.36	22.48	23.00



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Dan du dalah	Madulation	DD sins	DD affact	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20425	20525	20625	Tune up
		1	0	24.22	24.31	24.19	25.00
		1	13	24.16	24.28	24.31	25.00
		1	24	24.25	24.12	24.22	25.00
	QPSK	12	0	23.45	23.37	23.41	24.00
		12	6	23.48	23.41	23.47	24.00
		12	13	23.48	23.36	23.46	24.00
58411-		25	0	23.54	23.39	23.54	24.00
5MHz		1	0	23.63	23.65	23.66	24.00
		1	13	23.46	23.49	23.45	24.00
		1	24	23.56	23.38	23.47	24.00
	16QAM	12	0	22.38	22.34	22.38	23.00
		12	6	22.45	22.24	22.29	23.00
		12	13	22.37	22.35	22.39	23.00
		25	0	22.43	22.36	22.31	23.00
Bandwidth	Madulatian	DD -i	DD effect	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20450	20525	20600	Tune up
		1	0	24.35	24.42	24.37	25.00
		1	25	24.27	24.34	24.21	25.00
		1	49	24.21	24.32	24.39	25.00
	QPSK	25	0	23.43	23.45	23.39	24.00
		25	13	23.38	23.41	23.41	24.00
		25	25	23.44	23.38	23.43	24.00
400411-		50	0	23.37	23.42	23.40	24.00
10MHz		1	0	23.45	23.49	23.47	24.00
	1	25	23.47	23.58	23.62	24.00	
	16QAM	1	49	23.43	23.46	23.61	24.00
		25	0	22.41	22.31	22.39	23.00
		25	13	22.52	22.42	22.44	23.00
		25	25	22.49	22.44	22.42	23.00
		50	0	22.42	22.39	22.47	23.00



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	LTE Ba	nd 12			Conducted	Power(dBm)	
Daniel del	NA - ded - di - o	DD -:	DD -#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	23017	23095	23173	Tune up
		1	0	24.07	24.38	24.28	25.00
		1	2	24.34	24.46	24.35	25.00
		1	5	24.33	24.31	24.34	25.00
	QPSK	3	0	24.47	24.43	24.45	25.00
		3	2	24.33	24.51	24.54	25.00
		3	3	24.45	24.46	23.19	25.00
1.4MHz		6	0	23.56	23.52	23.55	24.00
1.4WHZ		1	0	23.59	23.63	23.66	24.00
		1	2	23.49	23.73	23.70	24.00
		1	5	23.59	23.67	23.19	24.00
	16QAM	3	0	23.47	23.53	23.59	24.00
		3	2	23.53	23.44	23.47	24.00
		3	3	23.54	23.51	22.27	24.00
		6	0	22.64	22.65	22.70	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwium	Modulation	ND SIZE	RD ollset	23025	23095	23165	Turie up
		1	0	24.04	24.36	24.38	25.00
		1	7	24.49	24.54	24.50	25.00
		1	14	24.39	24.42	24.38	25.00
	QPSK	8	0	23.44	23.49	23.41	24.00
		8	4	23.49	23.51	23.45	24.00
		8	7	23.55	23.47	23.57	24.00
3MHz		15	0	23.56	23.53	23.57	24.00
SIVILIZ		1	0	23.51	23.59	23.50	24.00
		1	7	23.59	23.64	23.58	24.00
		1	14	23.63	23.61	23.62	24.00
	16QAM	8	0	22.61	22.54	22.67	23.00
		8	4	22.67	22.62	22.64	23.00
		8	7	22.59	22.64	22.56	23.00
		15	0	22.58	22.49	22.63	23.00



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			55 % (Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	23035	23095	23155	Tune up
		1	0	24.13	24.27	24.37	25.00
	İ	1	13	24.44	24.48	24.25	25.00
	İ	1	24	24.41	24.37	24.44	25.00
	QPSK	12	0	23.54	23.48	23.56	24.00
		12	6	23.61	23.52	23.64	24.00
	[12	13	23.66	23.55	23.19	24.00
5841I-		25	0	23.54	23.56	23.57	24.00
5MHz		1	0	23.42	23.31	23.45	24.00
	İ	1	13	23.44	23.42	23.41	24.00
	Ī	1	24	23.49	23.52	23.19	24.00
	16QAM	12	0	22.47	22.58	22.53	23.00
	İ	12	6	22.54	22.62	22.57	23.00
		12	13	22.59	22.54	22.27	23.00
		25	0	22.52	22.44	22.57	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danuwium	Modulation	ND SIZE	RD Ollset	23060	23095	23130	Tune up
		1	0	24.18	24.53	24.46	25.00
		1	25	24.35	24.46	24.47	25.00
		1	49	24.45	24.42	24.41	25.00
	QPSK	25	0	23.50	23.51	23.48	24.00
		25	13	23.46	23.47	23.43	24.00
		25	25	23.19	23.48	23.40	24.00
10MHz		50	0	23.44	23.51	23.42	24.00
TUNITZ		1	0	23.68	23.65	23.64	24.00
	16QAM	1	25	23.60	23.63	23.62	24.00
		1	49	23.19	23.76	23.75	24.00
		25	0	22.54	22.48	22.54	23.00
		25	13	22.57	22.54	22.51	23.00
		25	25	22.47	22.63	22.60	23.00
	[50	0	22.56	22.51	22.56	23.00



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	LTE Ban	d 14			Conducted	Power(dBm)	
Dan duni déla	Madulatian	RB size	DD -#4	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	23305	23330	23355	Tune up
		1	0	24.13	24.23	24.19	25.00
		1	13	24.34	24.32	24.29	25.00
		1	24	24.25	24.16	24.28	25.00
	QPSK	12	0	23.54	23.52	23.56	24.00
		12	6	23.44	23.46	23.53	24.00
		12	13	23.48	23.45	23.42	24.00
5MHz		25	0	23.51	23.47	23.46	24.00
SIVITIZ		1	0	23.54	23.48	23.55	24.00
		1	13	23.45	23.43	23.47	24.00
		1	24	23.59	23.62	23.51	24.00
	16QAM	12	0	22.47	22.43	22.38	23.00
		12	6	22.45	22.37	22.54	23.00
		12	13	22.48	22.38	22.42	23.00
		25	0	22.56	22.42	22.39	23.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tuna un
Danawiath	Modulation	RD SIZE	RD Ollset	1	23330	1	Tune up
		1	0	1	24.41	1	25.00
		1	25	1	24.35	1	25.00
		1	49	1	24.27	1	25.00
	QPSK	25	0	1	23.56	1	24.00
		25	13	1	23.47	1	24.00
		25	25	1	23.45	1	24.00
10MHz		50	0	1	23.53	1	24.00
IUWIFIZ		1	0	1	23.52	1	24.00
	16QAM	1	25	1	23.51	1	24.00
		1	49	1	23.48	1	24.00
		25	0	1	22.49	1	23.00
		25	13	1	22.59	1	23.00
		25	25	1	22.46	1	23.00
		50	0	1	22.48	1	23.00



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	LTE Band 30	Hotspot Off			Conducted Power(dBm)				
Dan decidable	Madulatian	DD size	DD offered	Channel	Channel	Channel	T		
Bandwidth	Modulation	RB size	RB offset	27685	27710	27735	Tune up		
		1	0	23.38	23.47	23.37	25.00		
		1	13	23.51	23.45	23.42	25.00		
		1	24	23.44	23.41	23.43	25.00		
	QPSK	12	0	22.46	22.53	22.43	24.00		
		12	6	22.49	22.54	22.45	24.00		
		12	13	22.43	22.54	22.45	24.00		
5MHz		25	0	22.67	22.56	22.68	24.00		
SIVITZ		1	0	22.64	22.51	22.50	24.00		
		1	13	22.46	22.57	22.56	24.00		
		1	24	22.59	22.67	22.66	24.00		
	16QAM	12	0	21.56	21.51	21.57	23.00		
		12	6	21.58	21.54	21.51	23.00		
		12	13	21.55	21.58	21.55	23.00		
		25	0	21.63	21.49	21.54	23.00		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun		
Danawiath	iviodulation	RD SIZE	RD Ollset	1	27710	1	Tune up		
		1	0	1	23.56	1	25.00		
		1	25	1	23.48	1	25.00		
		1	49	1	23.54	1	25.00		
	QPSK	25	0	1	22.59	1	24.00		
		25	13	1	22.56	1	24.00		
		25	25	1	22.58	1	24.00		
10MHz		50	0	1	22.51	1	24.00		
TUIVITZ		1	0	1	22.69	1	24.00		
		1	25	1	22.63	1	24.00		
		1	49	1	22.61	1	24.00		
	16QAM	25	0	1	21.64	1	23.00		
		25	13	1	21.58	1	23.00		
		25	25	1	21.65	1	23.00		
		50	0	1	21.61	1	23.00		



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	LTE Band 30	Hotspot On		Conducted Power(dBm)				
Bandwidth	Modulation	DD oize	DD -#+	Channel	Channel	Channel	T	
Balluwiutii	Modulation	RB size	RB offset	27685	27710	27735	Tune up	
		1	0	20.97	20.97	20.86	22.00	
		1	13	21.06	21.13	20.98	22.00	
		1	24	20.99	21.25	21.08	22.00	
	QPSK	12	0	21.08	21.01	20.97	22.00	
		12	6	21.06	20.99	21.08	22.00	
		12	13	20.89	21.04	21.17	22.00	
5MHz		25	0	21.07	21.08	21.06	22.00	
SIVITZ		1	0	20.99	21.24	21.18	22.00	
		1	13	21.05	21.26	21.08	22.00	
	16QAM	1	24	21.06	21.17	20.97	22.00	
		12	0	20.98	21.05	21.08	22.00	
		12	6	21.08	21.17	21.09	22.00	
		12	13	21.14	21.06	21.18	22.00	
		25	0	21.19	21.13	21.16	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Danawian		110 0120	TE OHOCE	/	27710	1		
		1	0	1	21.27	1	22.00	
		1	25	1	21.11	1	22.00	
		1	49	1	21.09	1	22.00	
	QPSK	25	0	1	21.18	1	22.00	
		25	13	1	21.14	1	22.00	
		25	25	1	21.10	1	22.00	
10MHz		50	0	1	21.08	1	22.00	
IUIVITZ		1	0	1	21.06	1	22.00	
		1	25	1	21.17	1	22.00	
		1	49	1	21.05	1	22.00	
	16QAM	25	0	1	21.04	1	22.00	
		25	13	1	21.09	1	22.00	
	ļ	25	25	1	21.15	1	22.00	
		50	0	1	21.13	1	22.00	



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8.1.3 Conducted Power of WIFI

	Receiver off/Receiver on									
Mode 2.4G	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test				
	1	2412		14.76	16.00	No				
802.11b	6	2437	1	15.31	16.00	Yes				
	11	2462		15.25	16.00	No				
	1	2412		14.66	16.00	No				
802.11g	6	2437	6	15.99	17.00	No				
	11	2462		15.95	17.00	No				
000 445	1	2412		14.57	16.00	No				
802.11n HT20	6	2437	6.5	14.82	16.00	No				
11120	11	2462		14.98	16.00	No				
902 11n	1	2412		14.77	15.00	No				
802.11n HT40	6	2437	13.5	14.87	15.00	No				
11140	11	2462		14.81	15.00	No				

	Receiver off									
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test			
		36	5180		17.89	18.50	Yes			
	U-NII-1	40	5200		17.56	18.50	No			
	O-MII-1	44	5220		17.75	18.50	No			
		48	5240	1	17.73	18.50	No			
		52	5260		17.81	18.50	No			
	U-NII-2A	56	5280		17.77	18.50	No			
	U-MII-ZA	60	5300		17.90	18.50	No			
802.11a		64	5320	6	17.98	18.50	Yes			
002.11a		100	5500		16.40	17.50	No			
		116	5580		17.38	18.50	No			
	U-NII-2C	124	5620		17.29	18.50	No			
		132	5660		17.61	18.50	Yes			
		140	5700		17.60	18.50	No			
		149	5745		17.72	18.50	Yes			
	U-NII-3	157	5785		17.64	18.50	No			
		165	5825		17.66	18.50	Yes			
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test			
		36	5180		16.49	17.50	No			
		40	5200		16.35	17.50	No			
	U-NII-1	44	5220	1	16.61	17.50	No			
		48	5240		16.54	17.50	No			
		52	5260	1	16.57	17.50	No			
		56	5280		16.43	17.50	No			
802.11n-	U-NII-2A	60	5300	MCS0	16.55	17.50	No			
HT20		64	5320	IVICOU	16.62	17.50	No			
		100	5500		15.85	16.50	No			
		116	5580		16.32	17.50	No			
	U-NII-2C	124	5620		16.28	17.50	No			
		132	5660		16.31	17.50	No			
		140	5700		15.52	16.50	No			
	U-NII-3	149	5745		16.48	17.50	No			



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		457	F705	1	16.45	17.50	No
		157	5785		16.45	17.50	
		165	5825		16.51	17.50	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	38	5190		16.73	17.50	No
	U-INII-1	46	5230		16.71	17.50	No
	U-NII-2A	54	5270		16.67	17.50	No
	U-INII-ZA	62	5310		15.23	16.50	No
802.11n-		102	5510		14.08	15.50	No
HT40		110	5550	MCS0	16.56	17.50	No
	U-NII-2C	126	5630		16.38	17.50	No
		126	5630		16.29	17.50	No
		134	5670		15.24	16.50	No
	U-NII-3	151	5755		16.68	17.50	No
		159	5795		16.65	17.50	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
		36	5180		15.59	16.50	No
	U-NII-1	40	5200		15.49	16.50	No
		44	5220		15.61	16.50	No
		48	5240		15.66	16.50	No
		52	5260		15.67	16.50	No
	U-NII-2A	56	5280		15.60	16.50	No
	O-IVII-ZA	60	5300		15.61	16.50	No
802.11ac-20		64	5320	MCS0	15.63	16.50	No
002.1180-20	U-NII-2C	100	5500		15.43	16.50	No
		116	5580		15.34	16.50	No
		124	5620		15.28	16.50	No
		132	5660		15.34	16.50	No
		140	5700		15.56	16.50	No
		149	5745		15.61	16.50	No
	U-NII-3	157	5785	_	15.65	16.50	No
		165	5825		15.67	16.50	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	11 8111 4	38	5190		15.12	16.00	No
	U-NII-1	46	5230	1	15.09	16.00	No
		54	5270	1	15.06	16.00	No
	U-NII-2A	62	5310	1	15.10	16.00	No
		102	5510	†	14.91	15.50	No
802.11ac-40		110	5550	MCS0	14.98	16.00	No
	U-NII-2C	118	5590		14.85	16.00	No
	5 1411 20	126	5630	1	14.86	16.00	No
		-		1			No
		134	5670	1	15.02	16.00	+
	U-NII-3	151	5755		15.00	16.00	No
	2 0	159	5795		15.01	16.00	No



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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	42	5210	MCS0	14.90	16.00	No
	U-NII-2A	58	5290		15.08	16.00	No
802.11ac 80M	U-NII-2C	106	5530		14.02	15.00	No
OOW		122	5610		14.75	16.00	No
	U-NII-3	155	5775		14.81	16.00	No

	Receiver on								
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test		
		36	5180		13.97	14.50	No		
	U-NII-1	40	5200		13.73	14.50	No		
	0-1111-1	44	5220		13.86	14.50	No		
		48	5240		13.83	14.50	No		
		52	5260		13.99	14.50	No		
	U-NII-2A	56	5280		13.91	14.50	No		
	U-INII-ZA	60	5300		13.93	14.50	No		
802.11a		64	5320	6	13.95	14.50	No		
002.11a		100	5500		13.40	14.50	No		
		116	5580		13.34	14.50	No		
	U-NII-2C	124	5620		13.30	14.50	No		
		132	5660		13.57	14.50	No		
		140	5700		13.59	14.50	No		
		149	5745		13.84	14.50	No		
	U-NII-3	157	5785		13.81	14.50	No		
		165	5825		13.67	14.50	No		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test		
	U-NII-1	36	5180		13.52	14.50	No		
		40	5200		13.50	14.50	No		
		44	5220		13.77	14.50	No		
		48	5240		13.51	14.50	No		
		52	5260		13.57	14.50	No		
	U-NII-2A	56	5280		13.60	14.50	No		
		60	5300		13.57	14.50	No		
802.11n-		64	5320	MCS0	13.74	14.50	No		
HT20		100	5500	IVICSU	13.36	14.50	No		
		116	5580		13.34	14.50	No		
	U-NII-2C	124	5620		13.36	14.50	No		
		132	5660		13.35	14.50	No		
		140	5700		13.56	14.50	No		
		149	5745		13.53	14.50	No		
	U-NII-3	157	5785		13.48	14.50	No		
		165	5825		13.48	14.50	No		
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test		
000.44	U-NII-1	38	5190		13.69	14.50	No		
802.11n- HT40	U-IVII-I	46	5230	MCS0	13.74	14.50	No		
11170	U-NII-2A	54	5270		13.64	14.50	No		



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		62	5310		13.40	14.50	No
		102	5510		13.08	14.50	No
		110	5550		13.52	14.50	No
	U-NII-2C	126	5630	-	13.46	14.50	No
	0 m 20	126	5630	-	13.37	14.50	No
		134	5670	-	13.32	14.50	No
		151	5755		13.81	14.50	No
	U-NII-3	159	5795	-	13.75	14.50	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
		36	5180		13.55	14.50	No
		40	5200		13.47	14.50	No
	U-NII-1	44	5220		13.72	14.50	No
		48	5240		13.75	14.50	No
		52	5260		13.72	14.50	No
	U-NII-2A	56	5280		13.72	14.50	No
	U-MII-ZA	60	5300		13.70	14.50	No
802.11ac-20		64	5320	MCS0	13.79	14.50	No
002.11ac-20	U-NII-2C	100	5500	MCSU	13.48	14.50	No
		116	5580		13.51	14.50	No
		124	5620		13.38	14.50	No
		132	5660		13.47	14.50	No
		140	5700		13.69	14.50	No
	U-NII-3	149	5745		13.75	14.50	No
		157	5785		13.79	14.50	No
		165	5825		13.74	14.50	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	38	5190		13.75	14.50	No
		46	5230		13.63	14.50	No
	U-NII-2A	54	5270		13.70	14.50	No
		62	5310	-	13.72	14.50	No
		102	5510	-	13.55	14.50	No
802.11ac-40		110	5550	MCS0	13.50	14.50	No
	U-NII-2C	118	5590	-	13.49	14.50	No
		126	5630	-	13.41	14.50	No
		134	5670	-	13.58	14.50	No
		151	5755	-	13.65	14.50	No
	U-NII-3	159	5795	-	13.68	14.50	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	42	5210		13.47	14.50	No
	U-NII-2A	58	5290		13.81	14.50	Yes
802.11ac 80M	11 MIII 20	106	5530	MCS0	13.75	14.50	Yes
COIVI	U-NII-2C	122	5610		13.83	14.50	Yes
	U-NII-3	155	5775		13.79	14.50	Yes



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Note:

- a) Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.
- b) Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
 - 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
 - 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.
- c) For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.





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8.1.4 Conducted Power of BT

BT DH5 Duty Cycle=76.86%



14:14:57 28.03.2022

	вт	Average Conducted Power(dBm)					
Band	Channel	0	39	78	Tune up		
	GFSK	8.41	8.52	8.37	9.50		
BT	π/4DQPSK	4.43	4.41	4.30	5.50		
	8DPSK	4.41	4.39	4.28	5.50		
Band	Channel	0	19	39	Tune up		
BLE 1M	GFSK	-2.68	-2.11	-2.43	-1.50		
BLE 2M	GFSK	-2.72	-2.08	-2.39	-1.50		

Note:

1)The conducted power of BT is measured with RMS detector.



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8.2 Stand-alone SAR test evaluation

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and Product specific 10g SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Freq. Band	Frequency	Position		erage ower	Test Separation	Calculate	Exclusion	Exclusion
-	(GHz)		dBm	mW	(mm)	Value	Threshold	(Y/N)
		Head	16	39.81	5	12.52	3	N
Wi-Fi 2.4G	2.472	Body-worn	16	39.81	15	4.17	3	N
		Hotspot	16	39.81	10	6.26	3	N
		Head	14.5	28.18	5	13.61	3	N
Wi-Fi 5G	5.835	Body-worn	16	19.23	15	6.41	3	N
		Hotspot	16	19.23	10	9.62	3	N
		Head	9.5	8.91	5	2.81	3	Y
Bluetooth	2.48	Body-worn	9.5	8.91	15	0.94	3	Υ
		Hotspot	9.5	8.91	10	1.40	3	Υ

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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- · Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



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8.3 Measurement of SAR Data

Note:

- According to the declaration letter from manufacturer, for the Sample 2 variant test at the worst-case SAR in Head/Body worn and Hotspot.
- The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is ≤ 100MHz.
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.

WiFi 2.4G:

When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.

WiFi 5G:

- When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration.
- For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
- When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test 3) configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.



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8.3.1 SAR Result of WCDMA Band II

Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
				He	ead Test D	Data				
Left cheek	RMC	9400/1880	1:1	0.395	-0.15	23.12	24.00	1.225	0.484	22.3
Left tilted	RMC	9400/1880	1:1	0.180	0.08	23.12	24.00	1.225	0.220	22.3
Right cheek	RMC	9400/1880	1:1	0.329	0.09	23.12	24.00	1.225	0.403	22.3
Right tilted	RMC	9400/1880	1:1	0.146	0.06	23.12	24.00	1.225	0.179	22.3
			Boo	ly-worn Te	est data(S	eparate 15mm)				
Front side	RMC	9400/1880	1:1	0.398	-0.04	23.12	24.00	1.225	0.487	22.3
Back side	RMC	9400/1880	1:1	0.499	-0.12	23.12	24.00	1.225	0.611	22.3
			Н	otspot Tes	t data(Se	parate 10mm)				
Front side	RMC	9400/1880	1:1	0.705	0.05	23.12	24.00	1.225	0.863	22.3
Front side	RMC	9262/1852.4	1:1	0.782	0.04	23.08	24.00	1.236	0.967	22.3
Front side	RMC	9538/1907.6	1:1	0.516	0.03	23.09	24.00	1.233	0.636	22.3
Back side	RMC	9400/1880	1:1	0.806	-0.11	23.12	24.00	1.225	0.987	22.3
Back side	RMC	9262/1852.4	1:1	0.841	-0.06	23.08	24.00	1.236	1.039	22.3
Back side-repeat	RMC	9262/1852.4	1:1	0.823	0.09	23.08	24.00	1.236	1.017	22.3
Back side	RMC	9538/1907.6	1:1	0.702	0.02	23.09	24.00	1.233	0.866	22.3
Left side	RMC	9400/1880	1:1	0.449	0.03	23.12	24.00	1.225	0.550	22.3
Right side	RMC	9400/1880	1:1	0.216	0.04	23.12	24.00	1.225	0.265	22.3
Bottom side	RMC	9400/1880	1:1	0.528	0.03	23.12	24.00	1.225	0.647	22.3

Table 11: SAR of WCDMA Band II for Head and Body

Frequency	Measured SAR	Repeated	Ratio	2 nd Repeated	3 rd Repeated	
(MHz)	(19)	SAR (1g)		SAR (1g)	SAR (1g)	
9262/1852.4	0.841	0.823	1.022	N/A	N/A	
	(MHz) 9262/1852.4	(1g) 9262/1852.4 0.841	(MHz) (1g) Repeated 9262/1852.4 0.841 0.823	(MHz) (1g) Repeated SAR (1g) 9262/1852.4 0.841 0.823 1.022	Kepeated (1g) Repeated (1g) Ratio SAR (1g) SAR (1g) 9262/1852.4 0.841 0.823 1.022 N/A	

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.3.2 SAR Result of WCDMA Band IV

Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g		Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
				Head Test	Data					
Left cheek	RMC	1412/1732.4	1:1	0.242	0.02	23.06	24.00	1.242	0.300	22.4
Left tilted	RMC	1412/1732.4	1:1	0.154	0.08	23.06	24.00	1.242	0.191	22.4
Right cheek	RMC	1412/1732.4	1:1	0.362	-0.18	23.06	24.00	1.242	0.449	22.4
Right tilted	RMC	1412/1732.4	1:1	0.152	0.03	23.06	24.00	1.242	0.189	22.4
			Body-w	orn Test data(Separate 15n	nm)				
Front side	RMC	1412/1732.4	1:1	0.452	-0.11	23.06	24.00	1.242	0.561	22.4
Back side	RMC	1412/1732.4	1:1	0.448	-0.04	23.06	24.00	1.242	0.556	22.4
			Hotspo	ot Test data(S	eparate 10mr	n)				
Front side	RMC	1412/1732.4	1:1	0.573	0.09	23.06	24.00	1.242	0.711	22.4
Back side	RMC	1412/1732.4	1:1	0.823	0.03	23.06	24.00	1.242	1.022	22.4
Back side	RMC	1312/1712.4	1:1	0.810	-0.11	23.01	24.00	1.256	1.017	22.4
Back side	RMC	1513/1752.6	1:1	0.928	0.04	22.98	24.00	1.265	1.174	22.4
Back side-repeat	RMC	1513/1752.6	1:1	0.879	0.07	22.98	24.00	1.265	1.112	22.4
Left side	RMC	1412/1732.4	1:1	0.380	0.07	23.06	24.00	1.242	0.472	22.4
Right side	RMC	1412/1732.4	1:1	0.093	0.06	23.06	24.00	1.242	0.115	22.4
Bottom side	RMC	1412/1732.4	1:1	0.548	0.08	23.06	24.00	1.242	0.680	22.4
Back side with sample2	RMC	1513/1752.6	1:1	0.865	0.04	22.98	24.00	1.265	1.094	22.4

Table 12: SAR of WCDMA IV for Head and Body.

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Back side	1513/1752.6	0.928	0.879	1.056	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was \geq 1.45 W/kg (\sim 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.3.3 SAR Result of WCDMA Band V

Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
				Head Test	Data					
Left cheek	RMC	4182/836.4	1:1	0.193	0.03	23.48	24.00	1.127	0.218	22.1
Left tilted	RMC	4182/836.4	1:1	0.103	0.09	23.48	24.00	1.127	0.116	22.1
Right cheek	RMC	4182/836.4	1:1	0.317	0.06	23.48	24.00	1.127	0.357	22.1
Right tilted	RMC	4182/836.4	1:1	0.155	0.08	23.48	24.00	1.127	0.175	22.1
			Body-worr	Test data(S	Separate 1	5mm)				
Front side	RMC	4182/836.4	1:1	0.274	0.04	23.48	24.00	1.127	0.309	22.1
Back side	RMC	4182/836.4	1:1	0.373	-0.19	23.48	24.00	1.127	0.420	22.1
			Hotspot [*]	Test data(Se	parate 10	mm)				
Front side	RMC	4182/836.4	1:1	0.276	0.05	23.48	24.00	1.127	0.311	22.1
Back side	RMC	4182/836.4	1:1	0.418	0.10	23.48	24.00	1.127	0.471	22.1
Left side	RMC	4182/836.4	1:1	0.167	0.08	23.48	24.00	1.127	0.188	22.1
Right side	RMC	4182/836.4	1:1	0.266	0.04	23.48	24.00	1.127	0.300	22.1
Bottom side	RMC	4182/836.4	1:1	0.093	0.03	23.48	24.00	1.127	0.104	22.1

Table 13: SAR of WCDAM V for Head and Body



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8.3.4 SAR Result of LTE Band 2

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Head	d Test Data	(1RB)					
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.214	0.01	24.38	25.00	1.153	0.247	22.3
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.159	0.04	24.38	25.00	1.153	0.183	22.3
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.404	0.05	24.38	25.00	1.153	0.466	22.3
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.128	0.05	24.38	25.00	1.153	0.148	22.3
				Head [*]	Test Data(5	0%RB)					
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.127	0.01	23.35	24.00	1.161	0.148	22.3
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.123	0.07	23.35	24.00	1.161	0.143	22.3
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.377	0.01	23.35	24.00	1.161	0.438	22.3
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.109	0.08	23.35	24.00	1.161	0.127	22.3
			Body-v	vorn Tes	t data(Sepa	rate 15m	m 1RB)				
Front side	20	QPSK 1_0	18900/1880	1:1	0.406	0.19	24.38	25.00	1.153	0.468	22.3
Back side	20	QPSK 1 0	18900/1880	1:1	0.313	0.18	24.38	25.00	1.153	0.361	22.3
			Body wo	rn Test	data(Separa	ate 15mm	50%RB)				
Front side	20	QPSK 50 0	18900/1880	1:1	0.392	0.04	23.35	24.00	1.161	0.455	22.3
Back side	20	QPSK 50 0	18900/1880	1:1	0.296	0.04	23.35	24.00	1.161	0.344	22.3
		_	Hotsp	ot Test	data(Separa	te 10mm	1RB)				
Front side	20	QPSK 1 0	18900/1880	1:1	0.530	0.03	23.69	24.00	1.074	0.569	22.3
Back side	20	QPSK 1 0	18900/1880	1:1	0.916	0.12	23.69	24.00	1.074	0.984	22.3
Back side-repeat	20	QPSK 1 0	18900/1880	1:1	0.901	0.08	23.69	24.00	1.074	0.968	22.3
Back side	20	QPSK 1 0	18700/1860	1:1	0.871	0.05	23.41	24.00	1.146	0.998	22.3
Back side	20	QPSK 1 0	19100/1900	1:1	0.904	0.11	23.46	24.00	1.132	1.024	22.3
Left side	20	QPSK 1 0	18900/1880	1:1	0.595	0.10	23.69	24.00	1.074	0.639	22.3
Right side	20	QPSK 1 0	18900/1880	1:1	0.289	0.04	23.69	24.00	1.074	0.310	22.3
Bottom side	20	QPSK 1 0	18900/1880	1:1	0.586	0.10	23.69	24.00	1.074	0.629	22.3
		<u> </u>	Hotspo	t Test da	ta(Separate	10mm 5	0%RB)				
Front side	20	QPSK 50 0	18900/1880	1:1	0.562	0.05	23.57	24.00	1.104	0.620	22.3
Back side	20	QPSK 50 0	18900/1880	1:1	0.846	0.08	23.57	24.00	1.104	0.934	22.3
Back side	20	QPSK 50 0	18700/1860	1:1	0.848	0.02	23.26	24.00	1.186	1.006	22.3
Back side	20	QPSK 50 0	19100/1900	1:1	0.742	0.01	23.41	24.00	1.146	0.850	22.3
Left side	20	QPSK 50 0	18900/1880	1:1	0.626	0.14	23.57	24.00	1.104	0.691	22.3
Right side	20	QPSK 50 0	18900/1880	1:1	0.305	0.10	23.57	24.00	1.104	0.337	22.3
Bottom side	20	QPSK 50 0	18900/1880	1:1	0.632	0.12	23.57	24.00	1.104	0.698	22.3
		<u> </u>			ta(Separate						
Back side	20	QPSK 100 0		1:1	0.873	0.08	23.39	24.00	1.151	1.005	22.3

Table 14: SAR of LTE band 2 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Back side	18900/1880	0.916	0.901	1.017	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.3.5 SAR Result of LTE Band 4

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Head To	est Data(1	RB)					
Left cheek	20	QPSK 1_0	20175/1732.5	1:1	0.507	0.08	24.34	25.00	1.164	0.590	22.4
Left tilted	20	QPSK 1_0	20175/1732.5	1:1	0.297	0.01	24.34	25.00	1.164	0.346	22.4
Right cheek	20	QPSK 1_0	20175/1732.5	1:1	0.392	0.05	24.34	25.00	1.164	0.456	22.4
Right tilted	20	QPSK 1_0	20175/1732.5	1:1	0.267	0.02	24.34	25.00	1.164	0.311	22.4
				Head Tes	t Data(50	%RB)					
Left cheek	20	QPSK 50_0	20175/1732.5	1:1	0.450	0.01	23.36	24.00	1.159	0.521	22.4
Left tilted	20	QPSK 50_0	20175/1732.5	1:1	0.252	0.07	23.36	24.00	1.159	0.292	22.4
Right cheek	20	QPSK 50_0	20175/1732.5	1:1	0.322	0.01	23.36	24.00	1.159	0.373	22.4
Right tilted	20	QPSK 50_0	20175/1732.5	1:1	0.218	0.03	23.36	24.00	1.159	0.253	22.4
	•		Body-wo	rn Test da	ta(Separa	te 15mm	1RB)				•
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.692	-0.01	24.34	25.00	1.164	0.806	22.4
Back side	20	QPSK 1 0	20175/1732.5	1:1	0.715	0.07	24.34	25.00	1.164	0.832	22.4
		-	Body wor	n Test data	a(Separate	e 15mm 5	50%RB)				
Front side	20	QPSK 50 0	20175/1732.5	1:1	0.563	0.09	23.36	24.00	1.159	0.652	22.4
Back side	20	QPSK 50 0	20175/1732.5	1:1	0.650	0.01	23.36	24.00	1.159	0.753	22.4
	•		Body-worn	Test data	(Separate	15mm 1	00%RB)				•
Front side	20	QPSK 100 0	20175/1732.5	1:1	0.565	0.02	23.24	24.00	1.191	0.673	22.4
Back side	20	QPSK 100_0	20175/1732.5	1:1	0.588	0.01	23.24	24.00	1.191	0.700	22.4
			Hotspo	t Test data	a(Separate	e 10mm 1	IRB)				•
Front side	20	QPSK 1_0	20175/1732.5	1:1	0.737	0.18	22.61	23.00	1.094	0.806	22.4
Back side	20	QPSK 1_0	20175/1732.5	1:1	0.800	0.15	22.61	23.00	1.094	0.875	22.4
Back side-repeat	20	QPSK 1_0	20175/1732.5	1:1	0.783	0.02	22.61	23.00	1.094	0.857	22.4
Left side	20	QPSK 1_0	20175/1732.5	1:1	0.366	0.02	22.61	23.00	1.094	0.400	22.4
Right side	20	QPSK 1 0	20175/1732.5	1:1	0.190	0.01	22.61	23.00	1.094	0.208	22.4
Bottom side	20	QPSK 1_0	20175/1732.5	1:1	0.471	0.08	22.61	23.00	1.094	0.515	22.4
			Hotspot	Test data(Separate	10mm 50	%RB)				•
Front side	20	QPSK 50_0	20175/1732.5	1:1	0.769	0.01	22.49	23.00	1.125	0.865	22.4
Back side	20	QPSK 50 0	20175/1732.5	1:1	0.793	0.05	22.49	23.00	1.125	0.892	22.4
Left side	20	QPSK 50_0	20175/1732.5	1:1	0.381	0.02	22.49	23.00	1.125	0.428	22.4
Right side	20	QPSK 50 0	20175/1732.5	1:1	0.203	0.04	22.49	23.00	1.125	0.228	22.4
Bottom side	20		20175/1732.5	1:1	0.502	0.03	22.49	23.00	1.125	0.565	22.4
	•		Hotspot 7	est data(S	Separate 1	0mm 100	0%RB)		•		
Front side	20	QPSK 100_0	20175/1732.5	1:1	0.744	0.01	22.29	23.00	1.178	0.876	22.4
Back side	20	QPSK 100 ₀	20175/1732.5	1:1	0.760	0.14	22.29	23.00	1.178	0.895	22.4

Table 15: SAR of LTE Band 4 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated SAR (1g)	Ratio	2 nd Repeated SAR (1g)	3 rd Repeated SAR (1g)
Back side	20175/1732.5	0.8	0.783	1.022	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.3.6 SAR Result of LTE Band 5

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)		Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Head Tes	st Data(1R	(B)					
Left cheek	10	QPSK 1_0	20525/836.5	1:1	0.251	0.14	24.42	25.00	1.143	0.287	22.1
Left tilted	10	QPSK 1_0	20525/836.5	1:1	0.155	0.09	24.42	25.00	1.143	0.177	22.1
Right cheek	10	QPSK 1_0	20525/836.5	1:1	0.379	0.03	24.42	25.00	1.143	0.433	22.1
Right tilted	10	QPSK 1_0	20525/836.5	1:1	0.239	0.11	24.42	25.00	1.143	0.273	22.1
			ŀ	Head Test	Data(50%	RB)					
Left cheek	10	QPSK 25_0	20525/836.5	1:1	0.201	0.05	23.45	24.00	1.135	0.228	22.1
Left tilted	10	QPSK 25_0	20525/836.5	1:1	0.128	0.11	23.45	24.00	1.135	0.145	22.1
Right cheek	10	QPSK 25_0	20525/836.5	1:1	0.318	0.05	23.45	24.00	1.135	0.361	22.1
Right tilted	10	QPSK 25_0	20525/836.5	1:1	0.165	0.04	23.45	24.00	1.135	0.187	22.1
			Body-wor	n Test dat	a(Separat	e 15mm	1RB)				
Front side	10	QPSK 1_0	20525/836.5	1:1	0.368	0.02	24.42	25.00	1.143	0.421	22.1
Back side	10	QPSK 1_0	20525/836.5	1:1	0.479	0.03	24.42	25.00	1.143	0.547	22.1
			Body-worn	Test data(Separate	15mm 50	%RB)				
Front side	10	QPSK 25_0	20525/836.5	1:1	0.303	0.01	23.45	24.00	1.135	0.344	22.1
Back side	10	QPSK 25_0	20525/836.5	1:1	0.393	0.02	23.45	24.00	1.135	0.446	22.1
			Hotspot	Test data(Separate	10mm 1F	RB)				
Front side	10	QPSK 1_0	20525/836.5	1:1	0.382	0.01	24.42	25.00	1.143	0.437	22.1
Back side	10	QPSK 1_0	20525/836.5	1:1	0.619	-0.01	24.42	25.00	1.143	0.707	22.1
Left side	10	QPSK 1_0	20525/836.5	1:1	0.275	0.19	24.42	25.00	1.143	0.314	22.1
Right side	10	QPSK 1_0	20525/836.5	1:1	0.502	-0.05	24.42	25.00	1.143	0.574	22.1
Bottom side	10	QPSK 1_0	20525/836.5	1:1	0.133	0.15	24.42	25.00	1.143	0.152	22.1
			Hotspot T	est data(S	eparate 10	0mm 50%	6RB)				
Front side	10	QPSK 25_0	20525/836.5	1:1	0.315	0.01	23.45	24.00	1.135	0.358	22.1
Back side	10	QPSK 25_0	20525/836.5	1:1	0.482	-0.09	23.45	24.00	1.135	0.547	22.1
Left side	10	QPSK 25_0	20525/836.5	1:1	0.273	-0.04	23.45	24.00	1.135	0.310	22.1
Right side	10	QPSK 25_0	20525/836.5	1:1	0.435	-0.02	23.45	24.00	1.135	0.494	22.1
Bottom side	10	QPSK 25_0	20525/836.5	1:1	0.111	0.19	23.45	24.00	1.135	0.126	22.1

Table 16: SAR of LTE Band 5 for Head and Body.



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8.3.7 SAR Result of LTE Band 12

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)		Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Head T	est Data(1	RB)					
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.241	0.04	24.53	25.00	1.114	0.269	22.3
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.151	0.14	24.53	25.00	1.114	0.168	22.3
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.210	0.19	24.53	25.00	1.114	0.234	22.3
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.141	0.05	24.53	25.00	1.114	0.157	22.3
			H	lead Tes	st Data(50	%RB)					
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.196	0.04	23.51	24.00	1.119	0.219	22.3
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.118	0.12	23.51	24.00	1.119	0.132	22.3
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.174	-0.09	23.51	24.00	1.119	0.195	22.3
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.117	0.14	23.51	24.00	1.119	0.131	22.3
			Body-worr	Test da	ta(Separa	ite 15mm	1RB)				
Front side	10	QPSK 1_0	23095/707.5	1:1	0.251	0.02	24.53	25.00	1.114	0.280	22.3
Back side	10	QPSK 1_0	23095/707.5	1:1	0.384	-0.01	24.53	25.00	1.114	0.428	22.3
			Body-worn	Test dat	a(Separat	e 15mm :	50%RB)				
Front side	10	QPSK 25_0	23095/707.5	1:1	0.208	0.01	23.51	24.00	1.119	0.233	22.3
Back side	10	QPSK 25_0	23095/707.5	1:1	0.320	0.03	23.51	24.00	1.119	0.358	22.3
			Hotspot ⁻	Test data	a(Separate	e 10mm 1	1RB)				
Front side	10	QPSK 1_0	23095/707.5	1:1	0.280	0.01	24.53	25.00	1.114	0.312	22.3
Back side	10	QPSK 1_0	23095/707.5	1:1	0.505	0.01	24.53	25.00	1.114	0.563	22.3
Left side	10	QPSK 1_0	23095/707.5	1:1	0.284	0.01	24.53	25.00	1.114	0.316	22.3
Right side	10	QPSK 1_0	23095/707.5	1:1	0.443	-0.04	24.53	25.00	1.114	0.494	22.3
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.092	0.13	24.53	25.00	1.114	0.103	22.3
			Hotspot Te	est data(Separate	10mm 50)%RB)				
Front side	10	QPSK 25_0	23095/707.5	1:1	0.232	0.03	23.51	24.00	1.119	0.260	22.3
Back side	10	QPSK 25_0	23095/707.5	1:1	0.418	-0.03	23.51	24.00	1.119	0.468	22.3
Left side	10	QPSK 25_0	23095/707.5	1:1	0.239	-0.03	23.51	24.00	1.119	0.268	22.3
Right side	10	QPSK 25_0	23095/707.5	1:1	0.300	-0.02	23.51	24.00	1.119	0.336	22.3
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.073	0.14	23.51	24.00	1.119	0.082	22.3

Table 17: SAR of LTE Band 12 for Head and Body.



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8.3.8 SAR Result of LTE Band 14

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Head Tes	t Data(1R	B)					
Left cheek	10	QPSK 1_0	23330/793	1:1	0.333	0.04	24.41	25.00	1.146	0.381	22.3
Left tilted	10	QPSK 1_0	23330/793	1:1	0.192	-0.08	24.41	25.00	1.146	0.220	22.3
Right cheek	10	QPSK 1_0	23330/793	1:1	0.395	0.04	24.41	25.00	1.146	0.452	22.3
Right tilted	10	QPSK 1_0	23330/793	1:1	0.233	0.15	24.41	25.00	1.146	0.267	22.3
			ŀ	Head Test [Data(50%	RB)					
Left cheek	10	QPSK 25_0	23330/793	1:1	0.291	0.05	23.56	24.00	1.107	0.322	22.3
Left tilted	10	QPSK 25_0	23330/793	1:1	0.161	-0.14	23.56	24.00	1.107	0.178	22.3
Right cheek	10	QPSK 25_0	23330/793	1:1	0.314	0.08	23.56	24.00	1.107	0.347	22.3
Right tilted	10	QPSK 25_0	23330/793	1:1	0.208	0.14	23.56	24.00	1.107	0.230	22.3
			Body-wor	n Test data	(Separate	e 15mm 1	IRB)				
Front side	10	QPSK 1_0	23330/793	1:1	0.505	-0.01	24.41	25.00	1.146	0.578	22.3
Back side	10	QPSK 1_0	23330/793	1:1	0.650	0.05	24.41	25.00	1.146	0.745	22.3
			Body-worn	Test data(S	Separate 1	15mm 50	%RB)				
Front side	10	QPSK 25_0	23330/793	1:1	0.415	0.04	23.56	24.00	1.107	0.459	22.3
Back side	10	QPSK 25_0	23330/793	1:1	0.528	-0.05	23.56	24.00	1.107	0.584	22.3
			Hotspot	Test data(S	Separate 1	10mm 1R	(B)				
Front side	10	QPSK 1_0	23330/793	1:1	0.574	-0.01	24.41	25.00	1.146	0.658	22.3
Back side	10	QPSK 1_0	23330/793	1:1	0.732	-0.05	24.41	25.00	1.146	0.839	22.3
Left side	10	QPSK 1_0	23330/793	1:1	0.527	-0.07	24.41	25.00	1.146	0.604	22.3
Right side	10	QPSK 1_0	23330/793	1:1	0.688	-0.03	24.41	25.00	1.146	0.788	22.3
Bottom side	10	QPSK 1_0	23330/793	1:1	0.155	0.09	24.41	25.00	1.146	0.178	22.3
			Hotspot To	est data(Se	parate 10	mm 50%	RB)				
Front side	10	QPSK 25_0	23330/793	1:1	0.432	-0.01	23.56	24.00	1.107	0.478	22.3
Back side	10	QPSK 25_0	23330/793	1:1	0.605	0.00	23.56	24.00	1.107	0.670	22.3
Left side	10	QPSK 25_0	23330/793	1:1	0.459	0.14	23.56	24.00	1.107	0.508	22.3
Right side	10	QPSK 25_0	23330/793	1:1	0.593	-0.02	23.56	24.00	1.107	0.656	22.3
Bottom side	10	QPSK 25_0	23330/793	1:1	0.128	0.03	23.56	24.00	1.107	0.142	22.3
			Hotspot Te	est data(Se	parate 10r	mm 100%	6RB)				
Back side	10	QPSK 50_0	23330/793	1:1	0.611	0.11	23.53	24.00	1.114	0.681	22.3

Table 18: SAR of LTE Band 14 for Head and Body.



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8.3.9 SAR Result of LTE Band 30

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)		Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
				Head Tes	t Data(1R	(B)					
Left cheek	10	QPSK 1_0	27710/2310	1:1	0.093	0.03	23.56	25.00	1.393	0.130	22.3
Left tilted	10	QPSK 1_0	27710/2310	1:1	0.027	0.05	23.56	25.00	1.393	0.038	22.3
Right cheek	10	QPSK 1_0	27710/2310	1:1	0.035	0.01	23.56	25.00	1.393	0.049	22.3
Right tilted	10	QPSK 1_0	27710/2310	1:1	0.041	0.02	23.56	25.00	1.393	0.057	22.3
		_		Head Test	Data(50%	RB)					
Left cheek	10	QPSK 25_0	27710/2310	1:1	0.065	0.08	22.59	24.00	1.384	0.090	22.3
Left tilted	10	QPSK 25_0	27710/2310	1:1	0.021	0.06	22.59	24.00	1.384	0.029	22.3
Right cheek	10	QPSK 25_0	27710/2310	1:1	0.035	0.02	22.59	24.00	1.384	0.048	22.3
Right tilted	10	QPSK 25_0	27710/2310	1:1	0.032	-0.01	22.59	24.00	1.384	0.044	22.3
		•	Body-wo	rn Test data	a(Separate	e 15mm 1	IRB)				
Front side	10	QPSK 1_0	27710/2310	1:1	0.459	0.02	23.56	25.00	1.393	0.639	22.3
Back side	10	QPSK 1_0	27710/2310	1:1	0.638	0.01	23.56	25.00	1.393	0.889	22.3
Back side with sample2	10	QPSK 1_0	27710/2310	1:1	0.621	0.07	23.56	25.00	1.393	0.865	22.3
			Body-worr	Test data(Separate ⁻	15mm 50 ^o	%RB)				
Front side	10	QPSK 25_0	27710/2310	1:1	0.376	0.06	22.59	24.00	1.384	0.520	22.3
Back side	10	QPSK 25_0	27710/2310	1:1	0.525	0.05	22.59	24.00	1.384	0.726	22.3
		•	Body-worn	Test data(S	Separate 1	15mm 100	0%RB)				
Back side	10	QPSK 50_0	27710/2310	1:1	0.604	0.05	22.51	24.00	1.409	0.851	22.3
		•	Hotspo	t Test data(Separate	10mm 1R	RB)				
Front side	10	QPSK 1_0	27710/2310	1:1	0.395	0.04	21.27	22.00	1.183	0.467	22.3
Back side	10	QPSK 1_0	27710/2310	1:1	0.516	0.06	21.27	22.00	1.183	0.610	22.3
Left side	10	QPSK 1_0	27710/2310	1:1	0.497	0.03	21.27	22.00	1.183	0.588	22.3
Right side	10	QPSK 1_0	27710/2310	1:1	0.057	0.02	21.27	22.00	1.183	0.067	22.3
Bottom side	10	QPSK 1_0	27710/2310	1:1	0.893	0.06	21.27	22.00	1.183	1.056	22.3
			Hotspot ⁻	Test data(S	eparate 10	0mm 50%	RB)				
Front side	10	QPSK 25_0	27710/2310	1:1	0.402	0.02	21.18	22.00	1.208	0.486	22.3
Back side	10	QPSK 25_0	27710/2310	1:1	0.474	0.08	21.18	22.00	1.208	0.573	22.3
Left side	10	QPSK 25_0	27710/2310	1:1	0.436	0.01	21.18	22.00	1.208	0.527	22.3
Right side	10	QPSK 25_0	27710/2310	1:1	0.059	0.03	21.18	22.00	1.208	0.071	22.3
Bottom side	10	QPSK 25_0	27710/2310	1:1	0.911	0.05	21.18	22.00	1.208	1.100	22.3
Bottom side-repeat	10	QPSK 25_0	27710/2310	1:1	0.908	-0.03	21.18	22.00	1.208	1.097	22.3
			Hotspot T	est data(Se	parate 10	mm 100%	6RB)				
Bottom side	10	QPSK 50_0		1:1	0.889	0.06	21.08	22.00	1.236	1.099	22.3

Table 19: SAR of LTE Band 30 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Bottom side	27710/2310	0.911	0.908	1.003	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.3.10 SAR Result of WIFI 2.4G

Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				I	Head Test	data					
Left cheek	802.11b	6/2437	99.64%	1.004	0.675	-0.19	15.31	16.00	1.172	0.794	22.2
Left tilted	802.11b	6/2437	99.64%	1.004	0.645	0.15	15.31	16.00	1.172	0.759	22.2
Right cheek	802.11b	6/2437	99.64%	1.004	0.446	0.06	15.31	16.00	1.172	0.525	22.2
Right tilted	802.11b	6/2437	99.64%	1.004	0.435	-0.12	15.31	16.00	1.172	0.512	22.2
				Body-worn	Test data(Separate 1	5mm)				
Front side	802.11b	6/2437	99.64%	1.004	0.083	-0.06	15.31	16.00	1.172	0.097	22.2
Back side	802.11b	6/2437	99.64%	1.004	0.201	0.08	15.31	16.00	1.172	0.236	22.2
				Hotspot Te	est data (S	eparate 10	mm)				
Front side	802.11b	6/2437	99.64%	1.004	0.150	-0.08	15.31	16.00	1.172	0.176	22.2
Back side	802.11b	6/2437	99.64%	1.004	0.372	0.04	15.31	16.00	1.172	0.438	22.2
Right side	802.11b	6/2437	99.64%	1.004	0.057	0.03	15.31	16.00	1.172	0.068	22.2
Top side	802.11b	6/2437	99.64%	1.004	0.213	-0.06	15.31	16.00	1.172	0.251	22.2

Table 20: SAR of WIFI 2.4G for Head and Body. Note:

1) As the 802.11b highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than 802.11b,therefore the adjusted SAR is ≤ 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes are not required.



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8.3.11SAR Result of WIFI 5G

Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃)
				Head Te	st data of U-	NII-2A					
Left cheek	802.11ac 80M	58/5290	86.49%	1.156	0.679	0.02	13.81	14.50	1.172	0.920	22.1
	802.11ac 80M			1.156	0.708	0.05	13.81	14.50	1.172	0.960	22.1
Right cheek	802.11ac 80M	58/5290	86.49%	1.156	0.464	-0.03	13.81	14.50	1.172	0.629	22.1
Right tilted	802.11ac 80M	58/5290	86.49%	1.156	0.492	0.15	13.81	14.50	1.172	0.667	22.1
Left tilted with sample2	802.11ac 80M	58/5290	86.49%	1.156	0.705	0.05	13.81	14.50	1.172	0.955	22.1
·	'				st data of U-	NII-2C	'				
Left cheek	802.11ac 80M	122/5610	86.49%	1.156	0.513	0.07	13.83	14.50	1.167	0.692	22.3
Left tilted	802.11ac 80M	122/5610	86.49%	1.156	0.654	0.02	13.83	14.50	1.167	0.882	22.3
	802.11ac 80M			1.156	0.601	0.02	13.75	14.50	1.189	0.826	22.3
	802.11ac 80M			1.156	0.583	0.04	13.83	14.50	1.167	0.787	22.3
	802.11ac 80M			1.156	0.523	0.04	13.75	14.50	1.189	0.719	22.3
	802.11ac 80M			1.156	0.699	0.03	13.83	14.50	1.167	0.943	22.3
<u> </u>	802.11ac 80M			1.156	0.598	0.03	13.75	14.50	1.189	0.822	22.3
- V					est data of U				1		
Left cheek	802.11ac 80M	155/5775	86.49%	1.156	0.522	-0.07	13.79	14.50	1.178	0.711	22.2
	802.11ac 80M			1.156	0.682	-0.04	13.79	14.50	1.178	0.929	22.2
	802.11ac 80M			1.156	0.514	0.04	13.79	14.50	1.178	0.700	22.2
	802.11ac 80M			1.156	0.653	0.04	13.79	14.50	1.178	0.889	22.2
Ŭ	'				of U-NII-2A	(Separa	te 15mm)				
Front side	802.11a	64/5320		1.036	0.207	-0.04	17.98	18.50	1.127	0.242	22.1
Back side	802.11a	64/5320		1.036	0.310	0.08	17.98	18.50	1.127	0.362	22.1
	'	В	ody-worr	n Test data	a of U-NII-20	C(Separat	e 15mm)				
Front side	802.11a	132/5660		1.036	0.238	0.01	17.61	18.50	1.227	0.303	22.3
Back side		132/5660		1.036	0.403	0.09	17.61	18.50	1.227	0.512	22.3
	'				a of U-NII-3	(Separate					
Front side	802.11a	149/5745		1.036	0.219	0.16	17.72	18.50	1.197	0.272	22.2
Back side	802.11a	149/5745	96.53%	1.036	0.501	-0.09	17.72	18.50	1.197	0.621	22.2
	'			t Test data	of U-NII-1(Separate	10mm)				
Front side	802.11a	36/5290		1.036	0.350	0.12	17.89	18.50	1.151	0.417	22.1
Back side	802.11a	36/5290	96.53%	1.036	0.563	0.08	17.89	18.50	1.151	0.671	22.1
Top side	802.11a	36/5290		1.036	0.543	-0.03	17.89	18.50	1.151	0.647	22.1
·	,		Hotspot	Test data	of U-NII-3 (S	Separate	10mm)				
Front side	802.11a	149/5745		1.036	0.364	0.05	17.72	18.50	1.197	0.451	22.2
Back side		149/5745	96.53%	1.036	0.827	0.04	17.72	18.50	1.197	1.025	22.2
Back side		165/5825		1.036	0.770	0.03	17.66	18.50	1.213	0.968	22.2
Back side-Repeat		149/5745		1.036	0.822	0.01	17.72	18.50	1.197	1.019	22.2
Top side		149/5745		1.036	0.816	0.11	17.72	18.50	1.197	1.012	22.2
Top side		165/5825		1.036	0.710	0.07	17.66	18.50	1.213	0.892	22.2

Table 21: SAR of WIFI 5G for Head and Body. Note:

1) As the 802.11a highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than 802.11a,therefore the adjusted SAR is ≤ 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes are not required. For Product specific 10gSAR the highest reported SAR is smaller than 3.0 W/kg, SAR test for the other 802.11 modes are also not required.



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Test Position	Channel/ Frequency	Measured	SAR (1g) Repeated		2 nd Repeated	3 rd Repeated
	(MHz)	SAIT (19)	SAR (1g)		SAR (1g)	SAR (1g)
Back side	149/5745	0.827	0.822	1.006	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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²⁾ A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

³⁾ A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

⁴⁾ Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg



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8.3.12 SAR Result of BT

Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
					Head Test	data					
Left cheek	DH5	39/2441	76.86%	1.301	0.030	0.05	8.52	9.50	1.253	0.048	22.2
Left tilted	DH5	39/2441	76.86%	1.301	0.034	-0.08	8.52	9.50	1.253	0.055	22.2
Right cheek	DH5	39/2441	76.86%	1.301	0.019	0.01	8.52	9.50	1.253	0.030	22.2
Right tilted	DH5	39/2441	76.86%	1.301	0.017	0.04	8.52	9.50	1.253	0.027	22.2
			Во	dy-worn	Test data(S	Separate 15	ōmm)				
Front side	DH5	39/2441	76.86%	1.301	0.004	0.01	8.52	9.50	1.253	0.007	22.2
Back side	DH5	39/2441	76.86%	1.301	0.009	0.07	8.52	9.50	1.253	0.014	22.2
			Н	otspot T	est data (Se	eparate 10r	nm)				
Front side	DH5	39/2441	76.86%	1.301	0.008	0.05	8.52	9.50	1.253	0.012	22.2
Back side	DH5	39/2441	76.86%	1.301	0.021	-0.04	8.52	9.50	1.253	0.034	22.2
Right side	DH5	39/2441	76.86%	1.301	0.005	-0.05	8.52	9.50	1.253	0.008	22.2
Top side	DH5	39/2441	76.86%	1.301	0.011	0.09	8.52	9.50	1.253	0.017	22.2

Table 22: SAR of BT for Head and Body



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8.4 Multiple Transmitter Evaluation

8.4.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission Possibilities

NO	Simultaneous TX Combination	Head	Body- worn	Hotspot
1	WWAN+BT	Y	Υ	Υ
2	WWAN+WIFI 2.4G	Y	Υ	Υ
3	WWAN+WIFI 5G	Y	Y	Y
4	WIFI 5G+BT	Y	Y	Y
5	WWAN+WIFI 5G+BT	Υ	Υ	Y

Note:

- 1) The device does not support DTM function.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.



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8.4.2 Simultaneous Transmission SAR Summation Scenario Simultaneous Transmission SAR Summation Scenario for WLAN Head:

	Transillission ,						
Test p	osition	Main Ant0	WiFi 2.4G Ant2	WiFi 5G Ant3	ВТ	Summ	ned SAR
		1	2	3	4	1+2	1+3+4
	Left cheek	0.484	0.794	0.920	0.048	1.278	1.452
WCDMA II	Left tilted	0.220	0.759	0.960	0.055	0.979	1.235
WCDIVIA II	Right cheek	0.403	0.525	0.787	0.030	0.928	1.220
	Right tilted	0.179	0.512	0.943	0.027	0.691	1.149
	Left cheek	0.300	0.794	0.920	0.048	1.094	1.268
WCDMA IV	Left tilted	0.191	0.759	0.960	0.055	0.950	1.206
VVCDIVIA IV	Right cheek	0.449	0.525	0.787	0.030	0.974	1.266
	Right tilted	0.189	0.512	0.943	0.027	0.701	1.159
	Left cheek	0.218	0.794	0.920	0.048	1.012	1.186
\A(ODA4A \)(Left tilted	0.116	0.759	0.960	0.055	0.875	1.131
WCDMA V	Right cheek	0.357	0.525	0.787	0.030	0.882	1.174
	Right tilted	0.175	0.512	0.943	0.027	0.687	1.145
	Left cheek	0.247	0.794	0.920	0.048	1.041	1.215
LTE David O	Left tilted	0.183	0.759	0.960	0.055	0.942	1.198
LTE Band 2	Right cheek	0.466	0.525	0.787	0.030	0.991	1.283
	Right tilted	0.148	0.512	0.943	0.027	0.660	1.118
	Left cheek	0.590	0.794	0.920	0.048	1.384	1.558
	Left tilted	0.346	0.759	0.960	0.055	1.105	1.361
LTE Band 4	Right cheek	0.456	0.525	0.787	0.030	0.981	1.273
	Right tilted	0.311	0.512	0.943	0.027	0.823	1.281
	Left cheek	0.287	0.794	0.920	0.048	1.081	1.255
	Left tilted	0.177	0.759	0.960	0.055	0.936	1.192
LTE Band 5	Right cheek	0.433	0.525	0.787	0.030	0.958	1.250
	Right tilted	0.273	0.512	0.943	0.027	0.785	1.243
	Left cheek	0.269	0.794	0.920	0.048	1.063	1.237
LTE D	Left tilted	0.168	0.759	0.960	0.055	0.927	1.183
LTE Band 12	Right cheek	0.234	0.525	0.787	0.030	0.759	1.051
	Right tilted	0.157	0.512	0.943	0.027	0.669	1.127
	Left cheek	0.381	0.794	0.920	0.048	1.175	1.349
LTE D	Left tilted	0.220	0.759	0.960	0.055	0.979	1.235
LTE Band 14	Right cheek	0.452	0.525	0.787	0.030	0.977	1.269
	Right tilted	0.267	0.512	0.943	0.027	0.779	1.237
	Left cheek	0.129	0.794	0.920	0.048	0.923	1.097
	Left tilted	0.038	0.759	0.960	0.055	0.797	1.053
LTE Band 30	Right cheek	0.049	0.525	0.787	0.030	0.574	0.866
	Right tilted	0.057	0.512	0.943	0.027	0.569	1.027



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Simultaneous Transmission SAR Summation Scenario for WLAN Body-worn:

			SARmax	(W/kg)				
Test p	osition	Main Ant0	WiFi 2.4G Ant2	WiFi 5G Ant3	ВТ	Summ	ed SAR	
		1	2	3	4	1+2	1+3+4	
WCDMA II	Front side	0.487	0.097	0.303	0.007	0.584	0.797	
WCDIVIA II	Back side	0.611	0.236	0.621	0.014	0.847	1.246	
WCDMA IV	Front side	0.561	0.097	0.303	0.007	0.658	0.871	
VVCDIVIA IV	Back side	0.556	0.236	0.621	0.014	0.792	1.191	
WCDMA V	Front side	0.309	0.097	0.303	0.007	0.406	0.619	
WCDIVIA V	Back side	0.420	0.236	0.621	0.014	0.656	1.055	
LTE Band 2	Front side	0.468	0.097	0.303	0.007	0.565	0.778	
LIE Daliu Z	Back side	0.361	0.236	0.621	0.014	0.597	0.996	
LTE Band 4	Front side	0.806	0.097	0.303	0.007	0.903	1.116	
LIE Daliu 4	Back side	0.832	0.236	0.621	0.014	1.068	1.467	
LTE Band 5	Front side	0.421	0.097	0.303	0.007	0.518	0.731	
LIE Daliu 3	Back side	0.547	0.236	0.621	0.014	0.783	1.182	
LTE Band 12	Front side	0.280	0.097	0.303	0.007	0.377	0.590	
LIE Daliu 12	Back side	0.428	0.236	0.621	0.014	0.664	1.063	
LTC Dand 14	Front side	0.578	0.097	0.303	0.007	0.675	0.888	
LTE Band 14	Back side	0.745	0.236	0.621	0.014	0.981	1.380	
LTC Dand 20	Front side	0.639	0.097	0.303	0.007	0.736	0.949	
LTE Band 30	Back side	0.889	0.236	0.621	0.014	1.125	1.524	



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			SARmax	(W/kg)							
Test p	osition	Main Ant0	WiFi 2.4G Ant2	WiFi 5G Ant3	ВТ			Summ	ed SAR		
	+	1	2	3	4	1+2	SPLSR	Case No.	1+3+4	SPLSR	Case No.
	Front side	0.967	0.176	0.451	0.012	1.143	/	/	1.430	/	/
	Back side	1.039	0.438	1.025	0.034	1.477	1	,	2.098	1	1#
	Left side	0.550	1	/	/	0.550	1	,	0.550	1	/
WCDMA II	Right side	0.265	0.068	1	0.008	0.333	1	,	0.273	1	,
	Top side	/	0.251	1.012	0.017	0.251	1	,	1.029	1	,
	Bottom side	0.647	/	/	/	0.647	1	,	0.647	1	,
	Front side	0.711	0.176	0.451	0.012	0.887	1	,	1.174	1	,
	Back side	1.174	0.438	1.025	0.034	1.612	0.02	2#	2.233	1	3#
	Left side	0.472	/	/	/	0.472	/	/	0.472	1	/
WCDMA IV	Right side	0.115	0.068	1	0.008	0.183	1	,	0.123	1	,
	Top side	1	0.251	1.012	0.017	0.251	1	,	1.029	1	,
	Bottom side	0.680	/	/	/	0.680	1	,	0.680	1	,
	Front side	0.311	0.176	0.451	0.012	0.487	1	1	0.774	1	1
	Back side	0.471	0.438	1.025	0.034	0.909	1	1	1.530	1	1
	Left side	0.188	/	/	1	0.188	1	,	0.188	1	,
WCDMA V	Right side	0.300	0.068	,	0.008	0.368	1	,	0.308	1	,
	Top side	1	0.251	1.012	0.017	0.251	1	1	1.029	1	1
	Bottom side	0.104	/	/	1	0.104	1		0.104	/	1
	Front side	0.620	0.176	0.451	0.012	0.796	1	1	1.083	1	1
	Back side	1.006	0.438	1.025	0.034	1.444	1	1	2.065	/	4#
	Left side	0.691	1	1	/	0.691	1	1	0.691	/	1
LTE Band 2	Right side	0.337	0.068	1	0.008	0.405	1	/	0.345	1	1
	Top side	1	0.251	1.012	0.017	0.251	1	1	1.029	1	1
	Bottom side	0.698	/	1	/	0.698	1	/	0.698	/	1
	Front side	0.876	0.176	0.451	0.012	1.052	1	/	1.339	/	1
	Back side	0.895	0.438	1.025	0.034	1.333	1	/	1.954	/	5#
	Left side	0.428	/	/	/	0.428	1	/	0.428	/	1
LTE Band 4	Right side	0.228	0.068	1	0.008	0.296	/	/	0.236	/	1
	Top side	1	0.251	1.012	0.017	0.251	1	/	1.029	1	1
	Bottom side	0.565	/	1	/	0.565	1	/	0.565	1	1
	Front side	0.437	0.176	0.451	0.012	0.613	1	/	0.900	1	1
	Back side	0.707	0.438	1.025	0.034	1.145	1	/	1.766	1	6#
LTE Band 5	Left side	0.314	/	1	/	0.314	1	/	0.314	1	1
LIE Ballu 5	Right side	0.574	0.068	1	0.008	0.642	1	1	0.582	1	1
	Top side	1	0.251	1.012	0.017	0.251	1	1	1.029	1	1
	Bottom side	0.152	/	1	/	0.152	1	/	0.152	1	1
	Front side	0.312	0.176	0.451	0.012	0.488	1	1	0.775	1	1
	Back side	0.563	0.438	1.025	0.034	1.001	1	1	1.622	1	7#
LTE Band		0.316	/	/	/	0.316	1	/	0.316	1	/
12	Right side	0.494	0.068	1	0.008	0.562	1	/	0.502	1	/
	Top side	1	0.251	1.012	0.017	0.251	1	/	1.029	1	/
	Bottom side	0.103	/	/	/	0.103	1	/	0.103	/	/
	Front side	0.658	0.176	0.451	0.012	0.834	1	/	1.121	/	/
	Back side	0.839	0.438	1.025	0.034	1.277	1	/	1.898	/	8#
LTE Band	Left side	0.604	/	/	/	0.604	1	/	0.604	/	/
14	Right side	0.788	0.068	1	0.008	0.856	1	/	0.796	/	/
	Top side	/	0.251	1.012	0.017	0.251	/	/	1.029	/	/
	Bottom side	0.178	/	/	/	0.178	/	/	0.178	/	
	Front side	0.486	0.176	0.451	0.012	0.662	/	/	0.949	/	/
	Back side	0.610	0.438	1.025	0.034	1.048	/	/	1.669	/	9#
LTE Band	Left side	0.588	/	/	/	0.588	<u> </u>	/	0.588	/	/
30	Right side	0.071	0.068	/	0.008	0.139	<i>l</i>	/	0.079	. /	
	Top side	/	0.251	1.012	0.017	0.251	<i>l</i>	/	1.029	. /	
	Bottom side	1.100	/	/	/	1.100	/	/	1.100	/	/



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8.4.3SPLSR Evaluation Analysis

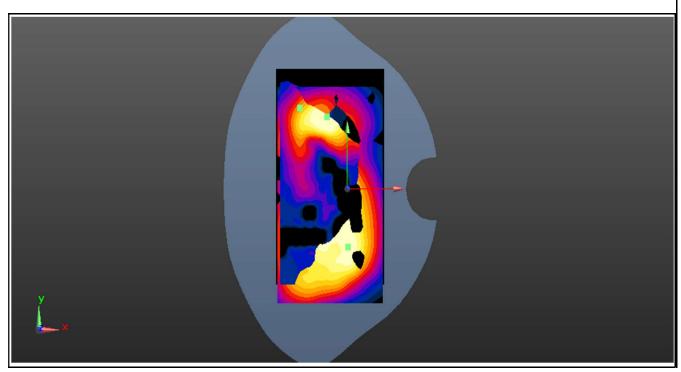
According to KDB447498 D01v06, When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio(SPLSR). When the SAR to peak location ratio for each pair of antennas is \leq 1-g 0.04 and 10-g 0.10, simultaneous SAR evaluation is not required.

When SAR is measured for both antennas in the pair, the peak location separation distance is computed by the following fomula:

Distance_{Tx1-Tx2} =
$$R_i = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

SPLS Ratio =
$$(SAR_1 + SAR_2)^{1.5}/R_i$$

Case	Daaltian	David	SAR	SAR pe	eak locatio	n (mm)	3D	Summed	SPLSR	Simultaneou
No.	Position	Band	(W/kg)	Х	Y	Z	distance (mm)	SAR (W/kg)	Results	s SAR
	Back side	WCDMA II	1.039	14.7	-55	-3.07	115.569		0.03	Not
	Dack Side	WLAN5GHz	1.025	-3	59.2	-4.17	115.509		0.03	Required
1#	Dook oido	WCDMA II	1.039	14.7	-55	-3.07	122 005	2 000	0.01	Not
1#	Back side	Bluetooth	0.034	-29	70.6	-3.07	132.985	2.098	0.01	Required
	Back side	WLAN5GHz	1.025	-3	59.2	-4.17	20 /11		0.04	Not
	Dack Side	Bluetooth	0.034	-29	70.6	-3.07	28.411		0.04	Required





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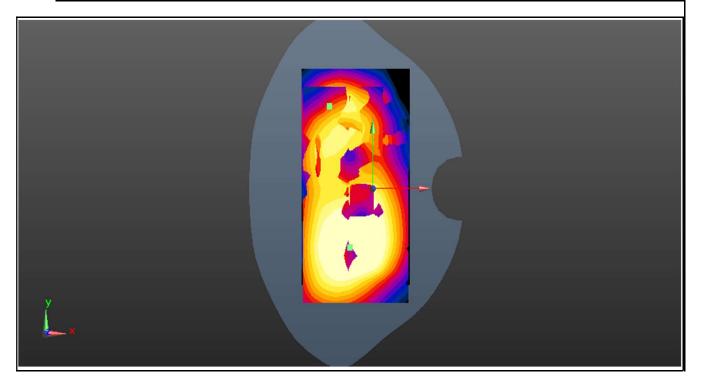
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Report No.: SEWM2203000022RG09

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Case No. Position	D	D	SAR	SAR pe	eak locatio	n (mm)		Summed	SPLSR	Simultaneou
	Band	(W/kg)	Х	Υ	Z	distance (mm)	SAR (W/kg)	Results	s SAR	
	2# Back side	WCDMA IV	1.174	7.6	-54.8	-2.27				Not
2#		WLAN2.4GH z	0.438	-26.4	68.8	-3.12	128.194	1.612	0.02	Required





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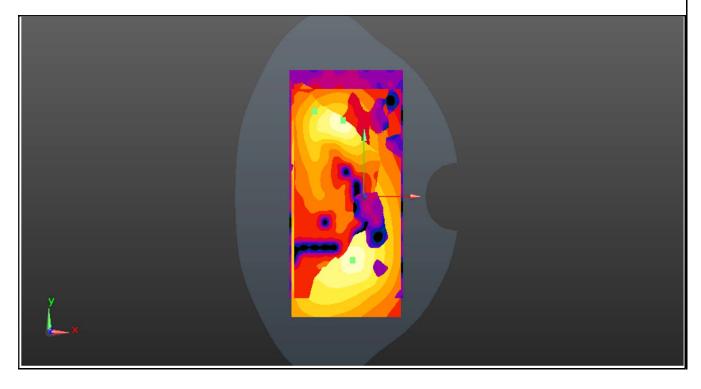
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Report No.: SEWM2203000022RG09

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Case No.	Position	Band	SAR (W/kg)	SAR pe	eak locatio	n (mm)	3D	Summed SAR (W/kg)	SPLSR	Simultaneou
				Х	Y	Z	distance (mm)		Results	s SAR
	Back side	WCDMA IV	1.174	7.6	-54.8	-2.27	114.508		0.03	Not
	Dack Side	WLAN5GHz	1.025	-3	59.2	-4.17	114.500	2.233	0.03	Required
3#	Back side	WCDMA IV	1.174	7.6	-54.8	-2.27	120 624		0.01	Not
3#	Dack Side	Bluetooth	0.034	-29	70.6	-3.07	130.634		0.01	Required
Back	Dardarida	WLAN5GHz	1.025	-3	59.2	-4.17	28.411		0.04	Not
	Dack Side	Bluetooth	0.034	-29	70.6	-3.07			0.04	Required





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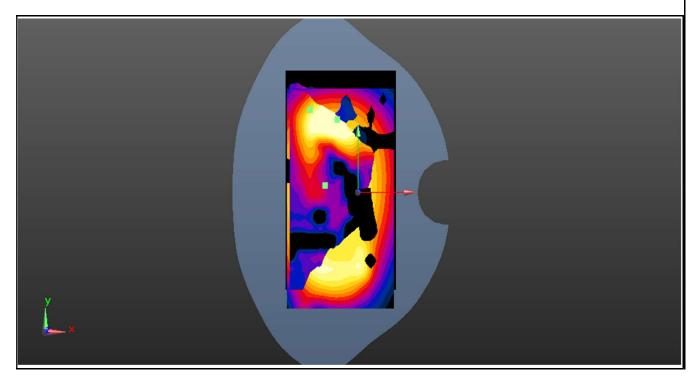
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Case No.	Position	Band	SAR (W/kg)	SAR pe	eak locatio	n (mm)	3D	Summed	SPLSR	
				Х	Y	Z	distance (mm)	SAR (W/kg)	Results	
	Back side	LTE Band 2	1.006	18.9	-55.5	-2.13	116.790		0.02	Not
	Dack Side	WLAN5GHz	1.025	-3	59.2	-4.17	110.790	1	0.02	Required
4#	Back side	LTE Band 2	1.006	18.9	-55.5	-2.13	124 004		0.01	Not
4#	Dack Side	Bluetooth	0.034	-29	70.6	-3.07	134.894		0.01	Required
	.	WLAN5GHz	1.025	-3	59.2	-4.17	20 444		0.04	Not
	Back side	Bluetooth	0.034	-29	70.6	-3.07	28.411		0.04	Required





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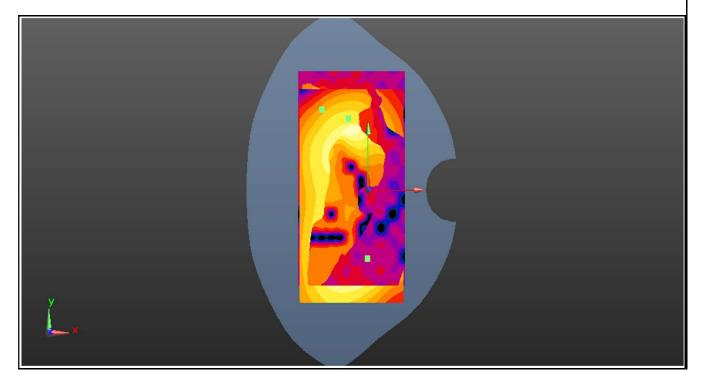
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Case No.	Position	Band	SAR (W/kg)	SAR pe	eak locatio	n (mm)	3D	Summed SAR (W/kg)	SPLSR	
				Х	Y	Z	distance (mm)		Results	
	Back side	LTE Band 4	0.895	19.7	-55.9	-2.11	117.335		0.02	Not
	Back side	WLAN5GHz	1.025	-3	59.2	-4.17	117.335	1	0.02	Required
5#	Back side	LTE Band 4	0.895	19.7	-55.9	-2.11	135.554		0.01	Not
5#	Back side	Bluetooth	0.034	-29	70.6	-3.07	135.554		0.01	Required
Ва	Dardarida	WLAN5GHz	1.025	-3	59.2	-4.17	28.411		0.04	Not
	Back side	Bluetooth	0.034	-29	70.6	-3.07			0.04	Required





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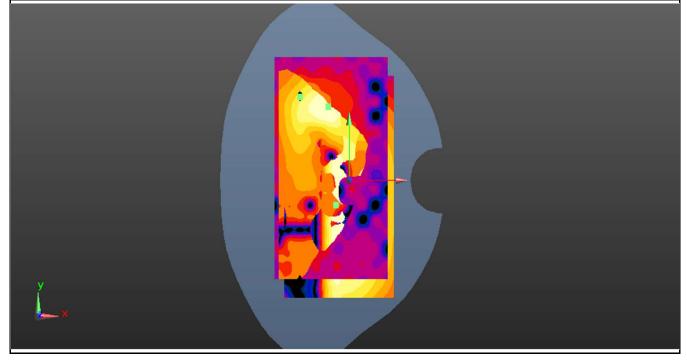
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Case	Position	Band	SAR (W/kg)	SAR pe	ak locatio	on (mm)	3D	Summed SAR (W/kg)	SPLSR Results	Simultaneou s SAR
No.				Х	Y	Z	distance (mm)			
	Back side	LTE Band 5	0.707	-1.9	-13.6	-4.49	72.809	1.766	0.03	Not
	Dack Side	WLAN5GHz	1.025	-3	59.2	-4.17	12.009		0.03	Required
6#	D 1 11	LTE Band 5	0.707	-1.9	-13.6	-4.49	88.465		0.01	Not
0#	Back side	Bluetooth	0.034	-29	70.6	-3.07				Required
Back side	Darel et al.	WLAN5GHz	1.025	-3	59.2	-4.17	00.444		0.04	Not
	Bluetooth	0.034	-29	70.6	-3.07	28.411		0.04	Required	





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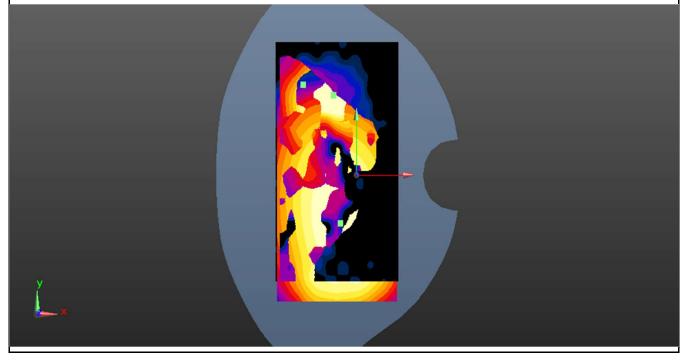
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Case	Position	Band	SAR	SAR pe	SAR peak location (mm)			Summed	SPLSR	Simultaneou
No.			(W/kg)	Х	Y	Z	distance (mm)	SAR (W/kg)	Results	s SAR
	Back side	LTE Band 12	0.563	4.6	-39.7	-4.41	99.192		0.02	Not
	Dack Side	WLAN5GHz	1.025	-3	59.2	-4.17		1.622	0.02	Required
7#	D 1 11	LTE Band 12	0.563	4.6	-39.7	-4.41	115.312		0.00	Not
/#	Back side	Bluetooth	0.034	-29	70.6	-3.07		1.022		Required
Back side	Pack side	WLAN5GHz	1.025	-3	59.2	-4.17	00 444		0.04	Not
	Bluetooth	0.034	-29	70.6	-3.07	28.411		0.04	Required	





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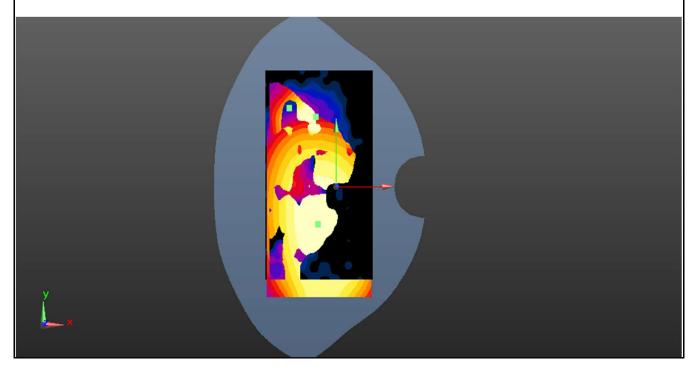
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Case	Position	Band	SAR	SAR peak location (mm)			3D	Summed	SPLSR	Simultaneou
No.			(W/kg)	Х	Y	Z	distance (mm)	SAR (W/kg)	Results	s SAR
	Back side	LTE Band 14	0.839	-1.5	-30.4	-4.49	89.613		0.03	Not
	Dack Side	WLAN5GHz	1.025	-3	59.2	-4.17		4 000	0.03	Required
8#	5	LTE Band 14	0.839	-1.5	-30.4	-4.49	104.687 1.89		0.01	Not
0#	Back side	Bluetooth	0.034	-29	70.6	-3.07		1.090		Required
Back side	Danis da	WLAN5GHz	1.025	-3	59.2	-4.17	00 444		0.04	Not
	Bluetooth	0.034	-29	70.6	-3.07	28.411		0.04	Required	





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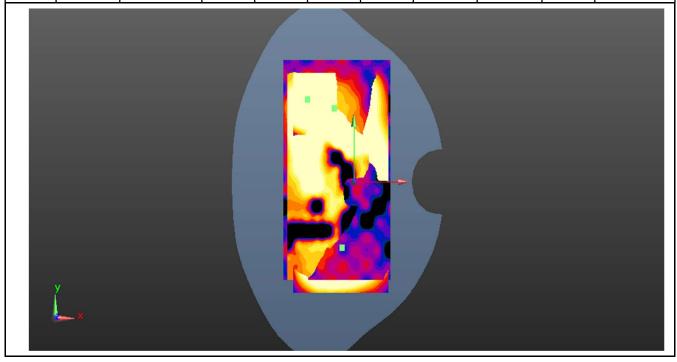
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Case No.	Position	Band	SAR (W/kg)	SAR pe	SAR peak location (mm)			Summed	SPLSR	Simultaneous
				Х	Y	Z	distance (mm)	SAR (W/kg)	Results	SAR
	Back side	LTE Band 30	0.610	4.2	-54.8	-2.67	114.237	1.669		Not Required
	Dack side	WLAN5GHz	1.025	-3	59.2	-4.17	114.231			Not Required
9#	Back side	LTE Band 30	0.610	4.2	-54.8	-2.67	400 704			Not Dominod
9#	Dack side	Bluetooth	0.034	-29	70.6	-3.07	129.721		0.00	Not Required
Back side	Dook oido	WLAN5GHz	1.025	-3	59.2	-4.17	00.444		0.04	Not Doguirod
	Bluetooth	0.034	-29	70.6	-3.07	28.411		0.04	Not Required	





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auinmant list

9	Equipment lis	st				
	Test Platform	SPEAG DASY5	Professional			
	Description	SAR Test Systen	n (Frequency rar	ige 300MHz-6GHz)		
	Software Reference	DASY52 52.10.4	(1527); SEMCAI	O X 14.6.14(7483)		
		Ha	rdware Referen	се		
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
	Twin Phantom	SPEAG	SAM2	1563	NCR	NCR
\boxtimes	DAE	SPEAG	DAE4	1324	2021-06-22	2022-06-21
\boxtimes	E-Field Probe	SPEAG	EX3DV4	3982	2021-12-29	2022-12-28
\boxtimes	Validation Kits	SPEAG	D750V3	1210	2021-09-08	2024-09-07
	Validation Kits	SPEAG	D835V2	4d256	2020-04-15	2023-04-14
\boxtimes	Validation Kits	SPEAG	D1750V2	1105	2020-08-29	2023-08-28
\boxtimes	Validation Kits	SPEAG	D1900V2	5d114	2020-08-27	2023-08-26
\boxtimes	Validation Kits	SPEAG	D2300V2	1072	2019-05-21	2022-05-20
	Validation Kits	SPEAG	D2450V2	1038	2020-04-08	2023-04-07
	Validation Kits	SPEAG	D5GHzV2	1313	2022-01-25	2025-01-24
\boxtimes	Dielectric parameter probes	SPEAG	DAKS-3.5	0005	2021-07-15	2022-07-14
\boxtimes	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0140913	2021-07-22	2022-07-21
	Universal Radio Communication Tester	R&S	CMW500	111637	2021-09-29	2022-09-28
	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
	Signal Generator	R&S	SMB100A	100379	2021-12-04	2022-12-03
	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR
	Power Meter	Aglient	E4419B	6843318103	2021-06-08	2022-06-07
\boxtimes	Power Sensor	Aglient	E9301A	MY41496508	2021-09-09	2022-09-08
\boxtimes	Power Sensor	Aglient	E9301H	MY41495605	2021-06-08	2022-06-07
\boxtimes	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
\boxtimes	Speed reading thermometer	LKM	DTM3000	SUW201-30-01	2021-10-09	2022-10-08

Note: All the equipments are within the valid period when the tests are performed.

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Humidity and

Temperature Indicator

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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

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