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FCC SAR TEST REPORT

Application No.: SUCR2506000550WM

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

Product Name: Smart Phone MC8B654B Model No.(EUT): FCC ID: 2A28USL005

Standards: FCC 47CFR §2.1093

Date of Receipt: 2025-06-10

Date of Test: 2025-06-21 to 2025-06-29

Date of Issue: 2025-07-09 Test conclusion: PASS *

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

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	Revision Record				
Version	Description	Date	Remark		
01	Original	2025/07/09	I		

Authorized for issue by:	
Prepared By	Leon Liu
	Leon Liu/ Project Manager
Approved By	Nick Hu
	Nick Hu/ Technical Manager



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TEST SUMMARY

	Maximum Reported SAR(W/kg)					
Frequency Band	Head Body-worn		Hotspot	Product specific 10g SAR		
GSM850	0.39	0.50	1.07	1		
GSM1900	0.44	0.25	0.49	/		
WCDMA Band II	0.24	0.11	0.24	/		
WCDMA Band IV	0.29	0.13	0.28	/		
WCDMA Band V	0.30	0.37	0.84	1		
LTE Band 12(17)	0.18	0.41	0.43	1		
LTE Band 13	0.22	0.39	0.52	1		
LTE Band 25(2)	0.24	0.11	0.23	1		
LTE Band 26(5)	0.24	0.28	0.55	/		
LTE Band 66(4)	0.24	0.13	0.25	/		
LTE Band 71	0.17	0.22	0.29	/		
WI-FI (2.4GHz)	0.53	0.11	0.20	/		
WI-FI (5GHz)	1.21	0.49	0.61	1.81		
BT	<0.10	<0.10	<0.10	/		
SAR Limited(W/kg)	1.6		4.0			

Maximum Simultaneous Transmission SAR (W/kg)

· •					
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR	
Sum SAR	1.54	1.11	1.58	1.81	
SPLSR	1	1	1	/	
SPLSR Limited	0.04			0.1	

Note:

1) According to TCB workshop October,2014 RF Exposure Procedures Update (Overlapping Bands): SAR for LTE Band 2 (Frequency range:1850 - 1910 MHz)/LTE Band 4 (Frequency range:1710 - 1755 MHz)/LTE Band 5 (Frequency range:824 - 849 MHz) /LTE Band 17 (Frequency range:704-716 MHz) is respectively covered by LTE Band25 (Frequency range:1850 - 1915 MHz) / LTE Band 66 (Frequency range:1710 - 1780 MHz) / LTE Band26 (Frequency range:814 - 849 MHz) / LTE Band 12 (Frequency range:699-716 MHz) due to similar frequency range, same maximum tune up limit and same channel bandwidth. Because the frequency range is similar, the maximum tuning limit is the same, and the channel bandwidth and other operating parameters for the smaller band is fully supported by the larger band.



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

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:	Leon Xu	

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

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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:	Smart Phone				
Model No.(EUT):	MC8B654B				
Product Phase:	Production Unit				
IMEI:	354637280000366				
Hardware Version:	1.0				
Software Version:	SL005TCV10002				
Device Operating Configuration	I .				
GSM: GMSK, 8PSK; WCDMA: QPSK,16QAM; LTE: QPSK,16QAM, 64QAM, 256QAM; WIFI: DSSS, OFDM; BT: GFSK, π/4DQPSK,8DPSK					
Device Class:	В				
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12		
HSDPA UE Category:	24	HSUPA UE Category	7		
DC-HSDPA UE Category:	24				
	4,tested with power lev	vel 5(GSM850)			
Power Class	1,tested with power lev	vel 0(GSM1900)			
Power Class	3, tested with power co	ontrol "all 1"(WCDMA Band)			
	3, tested with power co	ontrol Max Power(LTE Band)			
	Band	Tx (MHz)	Rx (MHz)		
	GSM850	824 - 849	869 - 894		
	GSM1900	1850 - 1910	1930 - 1990		
	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		
	LTE Band 12	699 - 716	729 - 746		
Farmer Davids	LTE Band 13	777 - 787	746 - 756		
Frequency Bands:	LTE Band 17	704 - 716	734 - 746		
	LTE Band 25	1850 - 1915	1930 - 1995		
	LTE Band 26	814 - 849	859 - 894		
	LTE Band 66	1710 - 1780	2110 - 2180		
	LTE Band 71	663 - 698	617 - 652		
	Bluetooth	2400 - 2483.5	2400 - 2483.5		
	Wi-Fi 2.4G	2402 - 2462	2402 - 2462		
		5150 - 5250	5150 - 5250		
)A/: F: 50	5250 - 5350	5250 - 5350		
	Wi-Fi 5G	5470 - 5725	5470 - 5725		
		5725 - 5850	5725 - 5850		
RF Cable:	□ Provided by the apple of the provided by the p	l			
	Model:	BL-A65CT	•		
D. 1. 6	Normal Voltage:	3.85V			
Battery Information:	Rated capacity:	3850mAh			
	Manufacturer:	Shenzhen Aerospace Electronic Co.,Ltd.			
Note: *Since the above data a		ided by the client relevant res			

report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity

and results of the data and information and/or the validity of the conclusion.



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Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

1.4.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix D

Note:

1) The test device is a smart phone. The overall diagonal dimension of this device is 177.5 mm. Per KDB 648474 D04, because the diagonal distance of this device is ≥160mm, so it is a phablet.

According to the distance between LTE/WCDMA/GSM&WIFI&BT 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
Ant.0	Hotspot/ Product specific 10g SAR	Yes	Yes	Yes	Yes	No	Yes
Ant.1	Hotspot/ Product specific 10g SAR	Yes	Yes	Yes	Yes	Yes	No
Ant.2	Hotspot/ Product specific 10g SAR	Yes	Yes	No	Yes	Yes	No

Note:

1) 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 simultaneously transmitting with the other antennas in certain simultaneous transmission conditions.

The detailed power reduction information can be referred to Appendix E.



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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 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
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



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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.)

^{*} 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 1: 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.

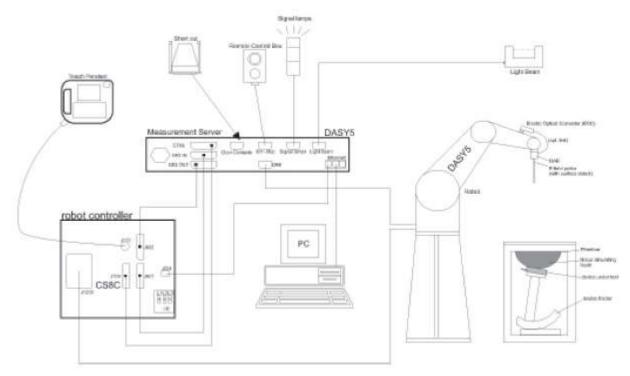
A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the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



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F-1. SAR Measurement System Configuration

- 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 system.
- DASY 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.



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3.2 Isotropic E-field Probe EX3DV4

3.2 ISOLIOPIC E-Heid I I	
	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 calibration service 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 μ W/g to > 100 mW/g Linearity: \pm 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY52 SAR and higher, EASY4/MRI

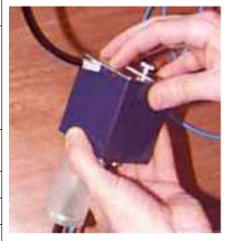


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3.3 Data Acquisition Electronics (DAE)

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. 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 simulating						
Compatibility	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						



The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 4 MHz to 6 GHz. ELI is fully compatible with the IEEE 1528 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 of SPEAG's dosimetric probes and dipoles.

ELI V5.0 and higher has the same shell geometry and is manufactured from the same material as ELI V4.0 but has a 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 fro (geometric center of pr			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°		
		ą.	≤ 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	ution: Δx _{Area} , Δy _{Area}	measurement plane orientation the measurement resolution is x or y dimension of the test of	on, is smaller than the above must be ≤ the corresponding device with at least one	
Maximum zoom scan s	patial resc	lution: Δx_{Zoom} , Δy_{Zoom}	≤ 2 GHz: ≤ 8 mm 2 - 3 GHz: ≤ 5 mm	3 – 4 GHz: ≤ 5 mm 4 – 6 GHz: ≤ 4 mm	
	uniform	grid: ∆z _{Z∞m} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
	grid	Δz _{Zoom} (n>1): between subsequent points	2-3 GHz: ≤ 12 mm $4-6$ GHz: ≤ 1 When the x or y dimension of the test device, in measurement plane orientation, is smaller than the measurement resolution must be ≤ the correst x or y dimension of the test device with at least of measurement point on the test device. $ ≤ 2 GHz: ≤ 8 mm $ $ 2-3 GHz: ≤ 8 mm $ $ 3-4 GHz: ≤ 4$ $ ≤ 5 mm $ $ 3-4 GHz: ≤ 4$ $ 5-6 GHz: ≤ 5$ $ ≤ 4 mm $ $ 4-5 GHz: ≤ 2$ $ 5-6 GHz: ≤ 2$	z _{Zoom} (n-1)	
Minimum zoom scan volume	x, y, z	L	≥ 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 re-evaluated. 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 factorDiode compression pointDcpi

Device parameters: - Frequency f

- Crest factor cf

Media parameters: - Conductivity - Density ρ

- Density p

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.

3

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)



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

E-field probes:

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

H-field probes:

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

With Vi = compensated signal of channel i (i = x, y, z)

(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.

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

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

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

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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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB 865664 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 re-mounted 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 ≥ 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 \geq 1.45 W/kg (\sim 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

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 KDB 865664 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.



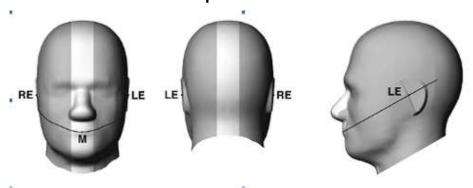
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5 Description of Test Position

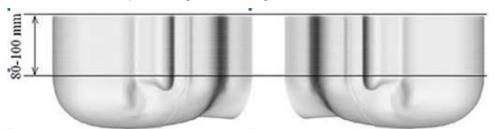
5.1 Head Exposure Condition

5.1.1 SAM Phantom Shape

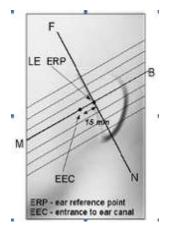


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

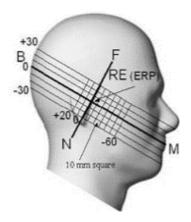
Note: The centre strip including the nose region has a different thickness tolerance.



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



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



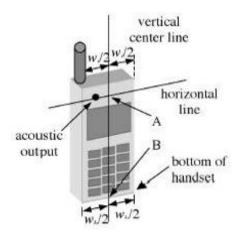
F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations

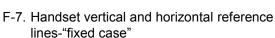


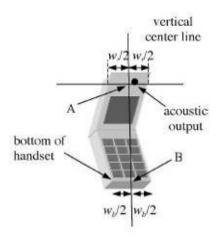
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5.1.2 EUT constructions







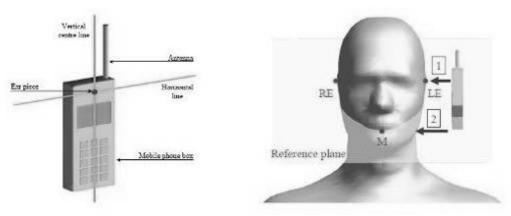
F-8. Handset vertical and horizontal reference lines-"clam-shell case"

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.

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.

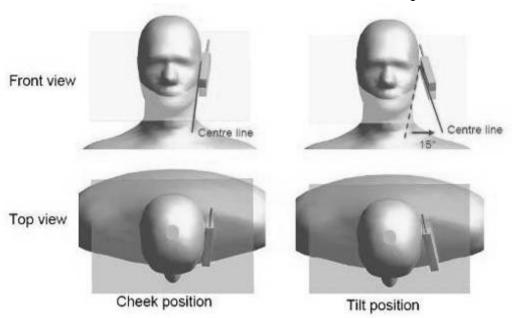


F-9. Definition of the reference lines and points, on the phone and on the phantom and initial position



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



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5.2 Body Exposure Condition

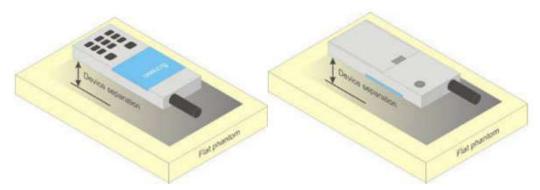
5.2.1 Body-worn accessory exposure conditions

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, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 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 648474 D04, 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 minitablets 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 ≤ 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 SAR result, WIFI 5G frequency bands need to test with 0mm for the Product Specific 10-g SAR, the others are not required.



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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 2500-27								
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

HEC: Hydroxyethyl Cellulose

Sucrose: 98+% Pure Sucrose

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL13MHz is composed of the following ingredients:

Water: 50-90%

Non-ionic detergents: 5-50%

Nacl: 0-2%

Preservative: 0.03-0.1%

HSL5GHz is composed of the following ingredients:

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

Table 2: 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 Type	Measured Frequency	Measure	d Tissue		t Tissue 5%)	Devi (Withir	ation 1 ±5%)	Liquid Temp.	Test Date	
	(MHz)	εr	σ(S/m)	εr	σ(S/m)	εr	σ(S/m)	(℃)		
750 Head	750	41.923	0.893	41.90	0.89	0.05%	0.34%	22.2	2025/6/21	
835 Head	835	42.345	0.910	41.50	0.90	2.04%	1.11%	21.9	2025/6/22	
1750 Head	1750	39.042	1.332	40.10	1.37	-2.64%	-2.77%	22.3	2025/6/23	
1950 Head	1950	39.251	1.402	40.00	1.40	-1.87%	0.14%	22.2	2025/6/24	
2450 Head	2450	39.063	1.795	39.20	1.80	-0.35%	-0.28%	22.0	2025/6/25	
5250 Head	5250	36.791	4.746	35.90	4.71	2.48%	0.76%	22.1	2025/6/27	
5600 Head	5600	35.923	5.162	35.50	5.07	1.19%	1.81%	21.9	2025/6/28	
5750 Head	5750	35.742	5.356	35.40	5.22	0.97%	2.61%	22.2	2025/6/29	

Table 3: Measurement result of Tissue electric parameters.

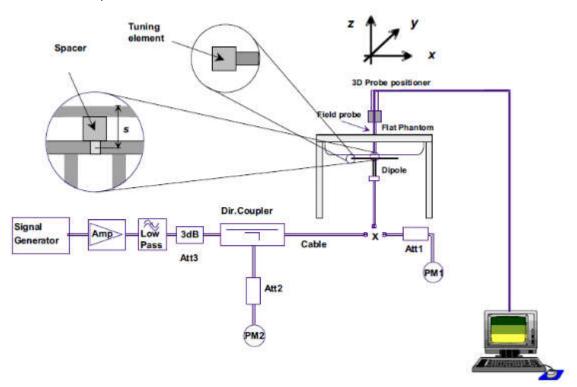


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6.2 SAR System Check

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) 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 20% 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)

Validation Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	(normalized	Target SAR (normalized to 1W)	Deviation (Within ±10%)		ithin ±10%)	
	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)		
D750V3_Head	2.19	1.44	8.76	5.76	8.37	5.53	4.66%	4.16%	22.2	2025/6/21
D835V2_Head	2.55	1.69	10.20	6.76	9.53	6.29	7.03%	7.47%	21.9	2025/6/22
D1750V2_Head	9.73	5.06	38.92	20.24	36.60	19.30	6.34%	4.87%	22.3	2025/6/23
D1950V3_Head	10.10	5.12	40.40	20.48	40.50	20.80	-0.25%	-1.54%	22.2	2025/6/24
D2450V2_Head	13.90	6.42	55.60	25.68	52.20	24.30	6.51%	5.68%	22.0	2025/6/25
Validation Kit	Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	(normalized	Target SAR (normalized to 1W)	Deviation		Liquid Temp. Test Date	
	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)	(℃)	
D5GHzV2_5.25G_Head	7.33	2.07	73.30	20.70	77.30	22.10	-5.17%	-6.33%	22.1	2025/6/27
D5GHzV2_5.6G_Head	7.58	2.19	75.80	21.90	81.30	23.10	-6.77%	-5.19%	21.9	2025/6/28
D5GHzV2_5.75G_Head	7.20	2.01	72.00	20.10	77.10	21.30	-6.61%	-5.63%	22.2	2025/6/29

Table 4: 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 Operation Configurations

7.1.1 GSM Test Configuration

SAR tests for GSM frequency band, a communication link is set up with a base station by air link. Using Radio Communication Analyzer, the power lever is set to "5" or "0" in SAR of GSM frequency band. The tests in the GSM frequency band are performed in the mode of GPRS/EGPRS function.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power, the higher number time-slot configuration should be tested.

When SAR tests for EGPRS mode is necessary, GMSK modulation should be used to minimize SAR measurement error due to higher peak-to-average power (PAR) ratios inherent in 8-PSK.

The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode.

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

the TDMA signal:

No. of timeslots	1	2	3	4
Duty Cycle	1:8.3	1:4.15	1:2.77	1:2.075
Time based avg. power compared to slotted avg. power	-9.19	-6.18	-4.42	-3.17

The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8.

7.1.2 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

RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power for production units in HSDPA / HSUPA is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest measured SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.5 W/kg, SAR measurement is not required for HSDPA / HSUPA.



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a) HSDPA

HSDPA is configured according to the applicable UE category of a test device. The number of HSDSCH/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* β c.

Note3: CM=1 for β c/ β d =12/15, β hs/ β 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.

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

The measurements were performed with a rixed reference channel (170) and 11-oet 1 gl ort.					
Parameter	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 5: settings of required H-Set 1 QPSK acc. to 3GPP 34.121



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HS-DSCH Category	MaximumHS- DSCH Codes Received	Minimum Inter- TTI Interval	MaximumHS-DSCH TransportBlockBits/HS- DSCH TTI	TotalSoft 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	16 15		27952	345600		

Table 6: HSDPA UE category

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.

Sub -test≠	βe÷	βa÷	βd (SF)¢	β₀∕β₫↔	β _{hs} (1)+²	β _{ec+3}	β_{ed}	β _e o+' (SF	Bed+	CM(2)+ (dB)⊕	MP Re (dB)€	AG ⁽⁴)↔ Inde x↔	E- TFC I
10	11/15(3)	15/15(3)0	64₽	11/15(3)	22/15₽	209/22 5₽	1039/225₽	4.0	1₽	1.0∉	0.0₽	20₽	75₽
20	6/15₽	15/15₽	64€	6/15₽	12/15∉	12/15₽	94/75₽	4₽	10	3.0₽	2.0₽	12¢	67₽
30	15/15₽	9/15₽	64₽	15/9₽	30/15₽	30/15₽	β _{ed1} :47/1 5ψ β _{ed2} :47/1 5ψ	4₽	2₽	2.0₽	1.0₽	150	92₽
40	2/15₽	15/15∉	64₽	2/15₽	4/15₽	2/15€	56/75₽	40	1€	3.0₽	2.0₽	17₽	71∂
5₽	15/15(4)	15/15(4)	64	15/15(4)43	30/15⊬	24/15₽	134/15₽	4₽	1₽	1.0↔	0.0↔	21₽	81+

 $A_{\rm hs}=\beta_{\rm hs}/\beta_{\rm e}=30/15$ \triangle ACK, \triangle NACK and \triangle CQI = 8 βhs = 30/15 * βc+

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. 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 β_c = 14/15 and β_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 7: Subtests for UMTS Release 6 HSUPA



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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	1.4592
2	2	4	10	4	14484	1.4592
3	2	4	10	4	14484	1.4592
N.	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 8: HSUPA UE category

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 9: settings of required H-Set 12 QPSK acc. To 3GPP 34.121



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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.

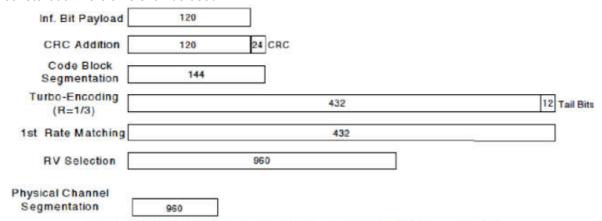


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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₽	βd₽	β _d (SF)₽	$\beta_c \cdot / \beta_{d^{e^2}}$	$\beta_{\rm hs}(1)$	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. Note:

- 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+

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-

Sub- test₽	β _e ↓ (Note3)↓	βd∻	β _{Hs} . (Note1).	β _{ec+} _₽	β _{ed}	110 100 200 000	CM- (dB)- (Note 2)-	MPR (dB)⊬ (Note 2)←	Index ₽	E-TFCI (Note 5)	1000
1₽	1₽	0↔	30/15₽	30/15	A STATE OF THE PARTY OF THE PAR	βed3: 24/15↔ βed4: 24/15↔	100000000000	2.5₽	14₽	105₽	105₽
	A CHARLEST AND A				with $\beta_{hs} = 30/$		rence ME	DD - MAY	CM 10)	i .	

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_o 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.

5) 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 ≤ 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.



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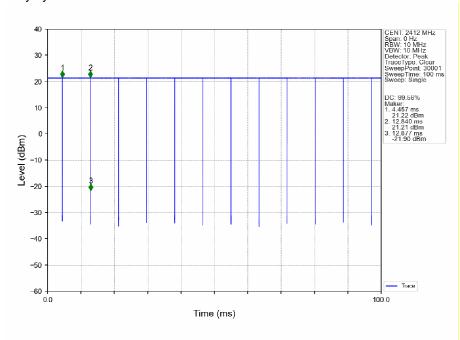
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7.1.3 WiFi Test Configuration

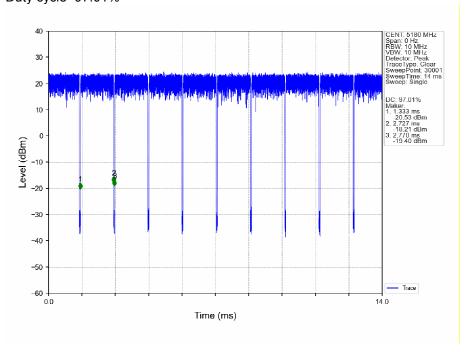
A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

7.1.3.1 Duty cycle

Wi-Fi 2.4GHz 802.11b: Duty cycle=99.56%



Wi-Fi 5GHz 802.11a/n HT20: Duty cycle=97.01%





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7.1.3.2 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:

- 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.

7.1.3.3 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.



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7.1.3.4 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.

- 1) . 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.
- 2) . 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.
- 3) 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.
 - a) 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.
- 4) . 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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7.1.3.5 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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7.1.3.6 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.
- 2) 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.
- 4) 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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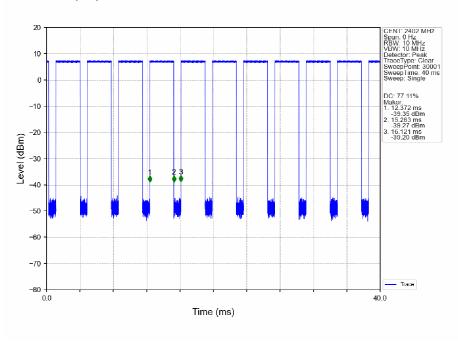
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7.1.1 BT Test Configuration

For the Bluetooth SAR tests, a communication link is set up with the test mode software for BT mode test. Bluetooth USES frequency hopping technology to divide the transmitted data into packets and transmit the packets respectively through 79 designated Bluetooth channels, frequency hops at 1600 hops/second per the Bluetooth standard, the EUT is operated at the RF continuous emission mode.

BT DH5 Duty Cycle=77.11%





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7.1.2 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 Anritsu MT8820C 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.

TDD LTE test consideration

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band support 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Frame structure type 2:

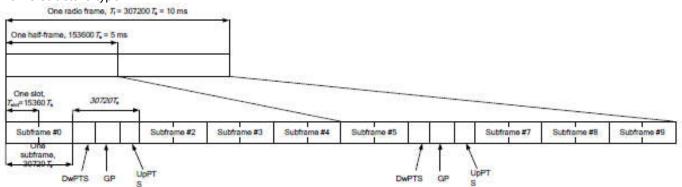


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Table 4.2-1. Configuration of special subframe (lengths of DWP15/GP/OpP15).										
Special	Norm	nal cyclic prefix in	downlink	Extend	ded cyclic prefix i	n downlink				
Special subframe	DwPTS	Up	PTS	DwPTS	Up	PTS				
configuration		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink				
0	6592.Ts	·		7680.Ts	·	·				
1	19760.Ts			20480.Ts	2192.Ts	2560.Ts				
2	21952.Ts	2192.Ts	2560.Ts	23040.Ts	2192.15	2300.18				
3	24144.Ts			25600.Ts						
4	26336.Ts			7680.Ts						
5	6592.Ts			20480.Ts	4204 To	5400 To				
6	19760.Ts			23040.Ts	4384.Ts	5120.Ts				
7	21952.Ts	4384.Ts	5120.Ts	25600.Ts						
8	24144.Ts			-	-	-				
9	13168.Ts			-	-	-				

Table 4.2-2: Uplink-downlink configurations.



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Uplink-downlink	Downlink-to-	Subframe number									
configuration	Uplink Switch- point periodicity	0	1	2	3	4	5	6	7	8 U U D D	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Calculated Duty Cycle=[Extended cyclic prefix in uplink x (Ts) x # of S + # of U]/10ms

Uplink-	Downlink-to-				Subf	rame N	lumbei	r				Calculated
Downlink Configuration	Uplink Switch- point Periodicity	0	1	2	3	4	5	6	7	8	9	Duty Cycle (%)
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

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.

		Channel l	oandwidth/	Transmission	bandwidth		MPR
Modulation	1.4	3	5	10	15	20	(dB)
	MHz	MHz	MHz	MHz	MHz	MHz	(ub)
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1
16QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2
64QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64QAM	> 5	> 4	> 8	> 12	> 16	> 18	3
256QAM				≥1			5



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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 > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

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 > ½ 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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8 Test Result

8.1 Measurement of RF conducted Power

The detailed conducted power table can refer to Appendix E.



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8.2 Measurement of SAR Data

Note:

- 1) The maximum reported SAR value is marked in **bold.** Graph results refer to Appendix B.
- 2) Per KDB 447498 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.
 - $\bullet \le 0.6$ W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.
- 3) The device does not support DTM function.
- 4) For WiFi SAR test, as the highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than SAR measurement mode, therefore the adjusted SAR is \leq 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.
- 5) For Wi-Fi 5G, U-NII-1 (5150–5250 MHz) and U-NII-3 (5725-5850 MHz) bands does support hotspot function.
- 6) The simultaneous transmission is reduced by XdB (the detailed power reduced can be referred to Conducted Power Appendix E), therefore, those SAR of simultaneous transmission mode are estimated based on standalone results.



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8.2.1 SAR Result of GSM850

	GSM850 SAR Test Record											
	Ant 0 Test Record											
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.(℃)		
				Head To	est Data							
Left cheek	GPRS 4TS	190/836.6	1:2.08	0.326	0.04	29.22	30.00	1.197	0.390	21.9		
Left tilted	GPRS 4TS	190/836.6	1:2.08	0.188	0.01	29.22	30.00	1.197	0.225	21.9		
Right cheek	GPRS 4TS	190/836.6	1:2.08	0.001	0.15	29.22	30.00	1.197	0.001	21.9		
Right tilted	GPRS 4TS	190/836.6	1:2.08	0.001	-0.06	29.22	30.00	1.197	0.001	21.9		
			Body wo	orn Test da	ta(Separat	e 15mm)						
Front side	GPRS 4TS	190/836.6	1:2.08	0.301	0.09	29.22	30.00	1.197	0.360	21.9		
Back side	GPRS 4TS	190/836.6	1:2.08	0.420	-0.07	29.22	30.00	1.197	0.503	21.9		
			Hotspo	t Test data	(Separate	10mm)						
Front side	GPRS 4TS	190/836.6	1:2.08	0.280	0.01	29.22	30.00	1.197	0.335	21.9		
Back side	GPRS 4TS	190/836.6	1:2.08	0.725	0.09	29.22	30.00	1.197	0.868	21.9		
Back side	GPRS 4TS	128/824.2	1:2.08	0.630	-0.17	29.12	30.00	1.225	0.772	21.9		
Back side	GPRS 4TS	251/848.8	1:2.08	0.875	-0.08	29.14	30.00	1.219	1.067	21.9		
Back side-Repeat SAR	GPRS 4TS	251/848.8	1:2.08	0.869	0.02	29.14	30.00	1.219	1.059	21.9		
Left side	GPRS 4TS	190/836.6	1:2.08	0.193	0.02	29.22	30.00	1.197	0.231	21.9		
Right side	GPRS 4TS	190/836.6	1:2.08	0.359	0.13	29.22	30.00	1.197	0.430	21.9		
Bottom side	GPRS 4TS	190/836.6	1:2.08	0.485	0.05	29.22	30.00	1.197	0.580	21.9		

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Back side	251/848.8	0.875	0.869	1.007	N/A	N/A

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

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

⁵⁾ The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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8.2.2 SAR Result of GSM1900

			G	SM1900	SAR Te	st Record						
	Ant 1 Test Record											
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.(℃)		
				Hea	ad Test D	ata						
Left cheek	GPRS 4TS	661/1880	1:2.08	0.111	0.09	26.20	27.00	1.202	0.133	22.2		
Left tilted	GPRS 4TS	661/1880	1:2.08	0.121	0.01	26.20	27.00	1.202	0.145	22.2		
Right cheek	GPRS 4TS	661/1880	1:2.08	0.318	-0.05	26.20	27.00	1.202	0.382	22.2		
Right tilted	GPRS 4TS	661/1880	1:2.08	0.363	-0.02	26.20	27.00	1.202	0.436	22.2		
			Body v	vorn Tes	t data(Se	eparate 15mm)						
Front side	GPRS 4TS	661/1880	1:2.08	0.060	0.02	26.20	27.00	1.202	0.072	22.2		
Back side	GPRS 4TS	661/1880	1:2.08	0.209	-0.19	26.20	27.00	1.202	0.251	22.2		
			Hots	pot Test	data(Sep	parate 10mm)						
Front side	GPRS 4TS	661/1880	1:2.08	0.091	0.05	26.20	27.00	1.202	0.109	22.2		
Back side	GPRS 4TS	661/1880	1:2.08	0.410	-0.01	26.20	27.00	1.202	0.493	22.2		
Left side	GPRS 4TS	661/1880	1:2.08	0.113	0.10	26.20	27.00	1.202	0.136	22.2		
Right side	GPRS 4TS	661/1880	1:2.08	0.000	-0.09	26.20	27.00	1.202	0.000	22.2		
Top side	GPRS 4TS	661/1880	1:2.08	0.215	0.03	26.20	27.00	1.202	0.258	22.2		



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8.2.3 SAR Result of WCDMA Band II

	WCDMA Band II SAR Test Record												
					Ant 1 Tes	t Record							
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.(℃)			
					Head Te	est Data							
Left cheek	RMC	9400/1880	1:1	0.069	0.01	24.69	25.00	1.074	0.074	22.2			
Left tilted	RMC	9400/1880	1:1	0.080	-0.07	24.69	25.00	1.074	0.086	22.2			
Right cheek	RMC	9400/1880	1:1	0.217	0.14	24.69	25.00	1.074	0.233	22.2			
Right tilted	RMC	9400/1880	1:1	0.222	-0.06	24.69	25.00	1.074	0.238	22.2			
Body worn Test data(Separate 15mm)									,				
Front side	RMC	9400/1880	1:1	0.032	0.18	24.69	25.00	1.074	0.034	22.2			
Back side	RMC	9400/1880	1:1	0.105	-0.03	24.69	25.00	1.074	0.113	22.2			
				Hotspot	Test data	(Separate 10mm	1)			,			
Front side	RMC	9400/1880	1:1	0.052	0.03	24.69	25.00	1.074	0.056	22.2			
Back side	RMC	9400/1880	1:1	0.226	-0.08	24.69	25.00	1.074	0.243	22.2			
Left side	RMC	9400/1880	1:1	0.064	0.09	24.69	25.00	1.074	0.069	22.2			
Right side	RMC	9400/1880	1:1	0.001	-0.01	24.69	25.00	1.074	0.001	22.2			
Top side	RMC	9400/1880	1:1	0.127	-0.04	24.69	25.00	1.074	0.136	22.2			



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8.2.4 SAR Result of WCDMA Band IV

			WC	DMA Ba	nd IV SAF	R Test Record				
				Ant	1 Test R	ecord				
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.(℃)
				H	ead Test [Data				
Left cheek	RMC	1412/1732.4	1:1	0.102	0.09	24.78	25.00	1.052	0.107	22.3
Left tilted	RMC	1412/1732.4	1:1	0.154	0.01	24.78	25.00	1.052	0.162	22.3
Right cheek	RMC	1412/1732.4	1:1	0.275	-0.04	24.78	25.00	1.052	0.289	22.3
Right tilted	RMC	1412/1732.4	1:1	0.264	-0.07	24.78	25.00	1.052	0.278	22.3
Body worn Test data(Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.058	-0.04	24.78	25.00	1.052	0.061	22.3
Back side	RMC	1412/1732.4	1:1	0.127	0.03	24.78	25.00	1.052	0.134	22.3
			Но	tspot Tes	st data(Se	parate 10mm)				
Front side	RMC	1412/1732.4	1:1	0.062	0.09	24.78	25.00	1.052	0.065	22.3
Back side	RMC	1412/1732.4	1:1	0.268	-0.06	24.78	25.00	1.052	0.282	22.3
Left side	RMC	1412/1732.4	1:1	0.063	-0.07	24.78	25.00	1.052	0.066	22.3
Right side	RMC	1412/1732.4	1:1	0.001	0.11	24.78	25.00	1.052	0.001	22.3
Top side	RMC	1412/1732.4	1:1	0.137	0.03	24.78	25.00	1.052	0.144	22.3



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8.2.5 SAR Result of WCDMA Band V

			WCE	OMA Band V	SAR Tes	t Record					
				Ant 0 Te	st Record	t					
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.(℃)	
				Head 1	est Data						
Left cheek	RMC	4182/836.4	1:1	0.276	-0.04	24.71	25.00	1.069	0.295	21.9	
Left tilted	RMC	4182/836.4	1:1	0.154	0.01	24.71	25.00	1.069	0.165	21.9	
Right cheek	RMC	4182/836.4	1:1	0.001	-0.08	24.71	25.00	1.069	0.001	21.9	
Right tilted	RMC	4182/836.4	1:1	0.001	0.16	24.71	25.00	1.069	0.001	21.9	
Body worn Test data(Separate 15mm)											
Front side	RMC	4182/836.4	1:1	0.270	0.02	24.71	25.00	1.069	0.289	21.9	
Back side	RMC	4182/836.4	1:1	0.348	-0.15	24.71	25.00	1.069	0.372	21.9	
			Hots	spot Test dat	a(Separat	e 10mm)					
Front side	RMC	4182/836.4	1:1	0.277	0.04	24.71	25.00	1.069	0.296	21.9	
Back side	RMC	4182/836.4	1:1	0.750	-0.02	24.71	25.00	1.069	0.802	21.9	
Left side	RMC	4182/836.4	1:1	0.183	0.12	24.71	25.00	1.069	0.196	21.9	
Right side	RMC	4182/836.4	1:1	0.351	0.05	24.71	25.00	1.069	0.375	21.9	
Bottom side	RMC	4182/836.4	1:1	0.418	-0.08	24.71	25.00	1.069	0.447	21.9	
Back side	RMC	4132/826.4	1:1	0.719	-0.01	24.66	25.00	1.081	0.778	21.9	
Back side	RMC	4233/846.6	1:1	0.765	-0.14	24.59	25.00	1.099	0.841	21.9	



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8.2.6 SAR Result of LTE Band 12

				LTE Ba	nd 12 SAF	R Test Re	cord				
				Δ	nt 0 Test	Record					
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.(℃)
				He	ad Test D	ata (1RB)					
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.147	0.03	24.21	25.00	1.199	0.176	22.2
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.085	0.09	24.21	25.00	1.199	0.102	22.2
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.001	0.01	24.21	25.00	1.199	0.001	22.2
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.001	-0.14	24.21	25.00	1.199	0.001	22.2
				Hea	d Test Dat	a (50%RE	3)				
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.121	0.08	23.24	24.00	1.191	0.144	22.2
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.066	-0.18	23.24	24.00	1.191	0.079	22.2
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.001	0.04	23.24	24.00	1.191	0.001	22.2
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.001	0.03	23.24	24.00	1.191	0.001	22.2
			В	ody worn Te	est data (S	eparate 1	5mm 1RB)				
Front side	10	QPSK 1_0	23095/707.5	1:1	0.239	0.09	24.21	25.00	1.199	0.287	22.2
Back side	10	QPSK 1_0	23095/707.5	1:1	0.339	-0.04	24.21	25.00	1.199	0.407	22.2
			Вос	dy worn Tes	t data (Se	parate 15	mm 50%RB)				
Front side	10	QPSK 25_0	23095/707.5	1:1	0.190	-0.11	23.24	24.00	1.191	0.226	22.2
Back side	10	QPSK 25_0	23095/707.5	1:1	0.278	0.01	23.24	24.00	1.191	0.331	22.2
			I	Hotspot Tes	t data (Se	parate 10	mm 1RB)				
Front side	10	QPSK 1_0	23095/707.5	1:1	0.261	0.07	24.21	25.00	1.199	0.313	22.2
Back side	10	QPSK 1_0	23095/707.5	1:1	0.360	-0.16	24.21	25.00	1.199	0.432	22.2
Left side	10	QPSK 1_0	23095/707.5	1:1	0.204	0.12	24.21	25.00	1.199	0.245	22.2
Right side	10	QPSK 1_0	23095/707.5	1:1	0.354	0.03	24.21	25.00	1.199	0.425	22.2
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.180	-0.08	24.21	25.00	1.199	0.216	22.2
			Н	otspot Test	data (Sepa	arate 10m	m 50%RB)				
Front side	10	QPSK 25_0	23095/707.5	1:1	0.174	0.17	23.24	24.00	1.191	0.207	22.2
Back side	10	QPSK 25_0	23095/707.5	1:1	0.297	0.06	23.24	24.00	1.191	0.354	22.2
Left side	10	QPSK 25_0	23095/707.5	1:1	0.154	0.09	23.24	24.00	1.191	0.183	22.2
Right side	10	QPSK 25_0	23095/707.5	1:1	0.301	0.01	23.24	24.00	1.191	0.359	22.2
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.165	-0.13	23.24	24.00	1.191	0.197	22.2



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8.2.7 SAR Result of LTE Band 13

				LTE Ba	nd 13 SAF	R Test Re	cord				
				Δ.	nt 0 Test	Record					
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.(℃)
				He	ead Test D	ata (1RB)					
Left cheek	10	QPSK 1_0	23230/782	1:1	0.181	0.08	24.19	25.00	1.205	0.218	22.2
Left tilted	10	QPSK 1_0	23230/782	1:1	0.095	0.01	24.19	25.00	1.205	0.114	22.2
Right cheek	10	QPSK 1_0	23230/782	1:1	0.001	-0.09	24.19	25.00	1.205	0.001	22.2
Right tilted	10	QPSK 1_0	23230/782	1:1	0.001	0.02	24.19	25.00	1.205	0.001	22.2
				Hea	d Test Dat	a (50%RE	3)				
Left cheek	10	QPSK 25_0	23230/782	1:1	0.147	-0.02	23.12	24.00	1.225	0.180	22.2
Left tilted	10	QPSK 25_0	23230/782	1:1	0.064	0.14	23.12	24.00	1.225	0.078	22.2
Right cheek	10	QPSK 25_0	23230/782	1:1	0.001	0.07	23.12	24.00	1.225	0.001	22.2
Right tilted	10	QPSK 25_0	23230/782	1:1	0.001	-0.03	23.12	24.00	1.225	0.001	22.2
			В	ody worn To	est data (S	eparate 1	5mm 1RB)				
Front side	10	QPSK 1_0	23230/782	1:1	0.218	0.08	24.19	25.00	1.205	0.263	22.2
Back side	10	QPSK 1_0	23230/782	1:1	0.321	-0.02	24.19	25.00	1.205	0.387	22.2
			Boo	dy worn Tes	st data (Se	parate 15	mm 50%RB)				
Front side	10	QPSK 25_0	23230/782	1:1	0.167	-0.01	23.12	24.00	1.225	0.205	22.2
Back side	10	QPSK 25_0	23230/782	1:1	0.242	-0.13	23.12	24.00	1.225	0.296	22.2
			ŀ	Hotspot Tes	t data (Se	parate 10	mm 1RB)				
Front side	10	QPSK 1_0	23230/782	1:1	0.231	0.09	24.19	25.00	1.205	0.278	22.2
Back side	10	QPSK 1_0	23230/782	1:1	0.434	-0.03	24.19	25.00	1.205	0.523	22.2
Left side	10	QPSK 1_0	23230/782	1:1	0.159	0.08	24.19	25.00	1.205	0.192	22.2
Right side	10	QPSK 1_0	23230/782	1:1	0.343	-0.11	24.19	25.00	1.205	0.413	22.2
Bottom side	10	QPSK 1_0	23230/782	1:1	0.270	0.01	24.19	25.00	1.205	0.325	22.2
			Ho	otspot Test	data (Sepa	arate 10m	m 50%RB)				
Front side	10	QPSK 25_0	23230/782	1:1	0.153	0.02	23.12	24.00	1.225	0.187	22.2
Back side	10	QPSK 25_0	23230/782	1:1	0.338	-0.08	23.12	24.00	1.225	0.414	22.2
Left side	10	QPSK 25_0	23230/782	1:1	0.112	-0.14	23.12	24.00	1.225	0.137	22.2
Right side	10	QPSK 25_0	23230/782	1:1	0.250	0.19	23.12	24.00	1.225	0.306	22.2
Bottom side	10	QPSK 25_0	23230/782	1:1	0.234	0.14	23.12	24.00	1.225	0.287	22.2



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8.2.8 SAR Result of LTE Band 25

				LTE Ba	nd 25 SAI	R Test Re	ecord				
				A	nt 1 Test	Record					
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.(℃)
				He	ead Test D	ata (1RB)					
Left cheek	20	QPSK 1_0	26365/1882.5	1:1	0.045	0.06	24.16	25.00	1.213	0.055	22.2
Left tilted	20	QPSK 1_0	26365/1882.5	1:1	0.053	0.15	24.16	25.00	1.213	0.064	22.2
Right cheek	20	QPSK 1_0	26365/1882.5	1:1	0.168	-0.03	24.16	25.00	1.213	0.204	22.2
Right tilted	20	QPSK 1_0	26365/1882.5	1:1	0.194	-0.01	24.16	25.00	1.213	0.235	22.2
				Hea	d Test Dat	a (50%RI	В)				
Left cheek	20	QPSK 50_0	26365/1882.5	1:1	0.033	0.02	23.15	24.00	1.216	0.040	22.2
Left tilted	20	QPSK 50_0	26365/1882.5	1:1	0.037	0.18	23.15	24.00	1.216	0.045	22.2
Right cheek	20	QPSK 50_0	26365/1882.5	1:1	0.130	-0.09	23.15	24.00	1.216	0.158	22.2
Right tilted	20	QPSK 50_0	26365/1882.5	1:1	0.158	0.14	23.15	24.00	1.216	0.192	22.2
			В	ody worn To	est data (S	Separate 1	I5mm 1RB)				
Front side	20	QPSK 1_0	26365/1882.5	1:1	0.005	0.03	24.16	25.00	1.213	0.006	22.2
Back side	20	QPSK 1_0	26365/1882.5	1:1	0.090	-0.04	24.16	25.00	1.213	0.109	22.2
			Boo	dy worn Tes	st data (Se	parate 15	mm 50%RB)				
Front side	20	QPSK 50_0	26365/1882.5	1:1	0.003	-0.11	23.15	24.00	1.216	0.004	22.2
Back side	20	QPSK 50_0	26365/1882.5	1:1	0.078	0.08	23.15	24.00	1.216	0.095	22.2
			ŀ	Hotspot Tes	t data (Se	parate 10	mm 1RB)				
Front side	20	QPSK 1_0	26365/1882.5	1:1	0.040	0.09	24.16	25.00	1.213	0.049	22.2
Back side	20	QPSK 1_0	26365/1882.5	1:1	0.189	-0.01	24.16	25.00	1.213	0.229	22.2
Left side	20	QPSK 1_0	26365/1882.5	1:1	0.053	0.07	24.16	25.00	1.213	0.064	22.2
Right side	20	QPSK 1_0	26365/1882.5	1:1	0.029	0.13	24.16	25.00	1.213	0.035	22.2
Top side	20	QPSK 1_0	26365/1882.5	1:1	0.098	-0.05	24.16	25.00	1.213	0.119	22.2
			Ho	otspot Test	data (Sepa	arate 10m	m 50%RB)				
Front side	20	QPSK 50_0	26365/1882.5	1:1	0.036	0.12	23.15	24.00	1.216	0.044	22.2
Back side	20	QPSK 50_0	26365/1882.5	1:1	0.155	0.03	23.15	24.00	1.216	0.189	22.2
Left side	20	QPSK 50_0	26365/1882.5	1:1	0.048	-0.07	23.15	24.00	1.216	0.058	22.2
Right side	20	QPSK 50_0	26365/1882.5	1:1	0.000	0.04	23.15	24.00	1.216	0.000	22.2
Top side	20	QPSK 50_0	26365/1882.5	1:1	0.084	0.05	23.15	24.00	1.216	0.102	22.2



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8.2.9 SAR Result of LTE Band 26

				LTE Ba	nd 26 SAI	R Test Re	ecord				
				-	Ant 0 Test	Record					
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.(℃)
				He	ead Test D	ata (1RB))				
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.193	0.01	24.15	25.00	1.216	0.235	21.9
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.107	-0.14	24.15	25.00	1.216	0.130	21.9
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.001	0.07	24.15	25.00	1.216	0.001	21.9
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.001	0.02	24.15	25.00	1.216	0.001	21.9
				Hea	d Test Dat	ta (50%R	B)				
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.165	0.06	23.13	24.00	1.222	0.202	21.9
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.074	-0.03	23.13	24.00	1.222	0.090	21.9
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.001	0.15	23.13	24.00	1.222	0.001	21.9
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.001	0.01	23.13	24.00	1.222	0.001	21.9
			В	ody worn T	est data (S	Separate 1	15mm 1RB)				
Front side	15	QPSK 1_0	26865/831.5	1:1	0.171	0.09	24.15	25.00	1.216	0.208	21.9
Back side	15	QPSK 1_0	26865/831.5	1:1	0.232	0.05	24.15	25.00	1.216	0.282	21.9
			Boo	dy worn Tes	st data (Se	parate 15	mm 50%RB)				
Front side	15	QPSK 36_0	26865/831.5	1:1	0.150	-0.01	23.13	24.00	1.222	0.183	21.9
Back side	15	QPSK 36_0	26865/831.5	1:1	0.206	0.06	23.13	24.00	1.222	0.252	21.9
				Hotspot Tes	st data (Se	parate 10	mm 1RB)				
Front side	15	QPSK 1_0	26865/831.5	1:1	0.257	0.01	24.15	25.00	1.216	0.313	21.9
Back side	15	QPSK 1_0	26865/831.5	1:1	0.452	-0.09	24.15	25.00	1.216	0.550	21.9
Left side	15	QPSK 1_0	26865/831.5	1:1	0.108	0.15	24.15	25.00	1.216	0.131	21.9
Right side	15	QPSK 1_0	26865/831.5	1:1	0.212	-0.02	24.15	25.00	1.216	0.258	21.9
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.253	0.09	24.15	25.00	1.216	0.308	21.9
			Ho	otspot Test	data (Sep	arate 10m	m 50%RB)				
Front side		QPSK 36_0		1:1	0.238	0.03	23.13	24.00	1.222	0.291	21.9
Back side	15	QPSK 36_0	26865/831.5	1:1	0.407	0.12	23.13	24.00	1.222	0.497	21.9
Left side	15	QPSK 36_0	26865/831.5	1:1	0.102	-0.17	23.13	24.00	1.222	0.125	21.9
Right side	15	QPSK 36_0	26865/831.5	1:1	0.192	0.08	23.13	24.00	1.222	0.235	21.9
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.238	0.04	23.13	24.00	1.222	0.291	21.9



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8.2.10 SAR Result of LTE Band 66

				LTE Ba	nd 66 SAF	R Test Re	ecord				
				A	nt 1 Test	Record					
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.(℃)
				He	ead Test D	ata (1RB)					
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.069	0.04	23.95	25.00	1.274	0.088	22.3
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.110	0.17	23.95	25.00	1.274	0.140	22.3
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.187	-0.03	23.95	25.00	1.274	0.238	22.3
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.179	0.03	23.95	25.00	1.274	0.228	22.3
				Hea	d Test Dat	a (50%RI	3)				
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.052	0.07	22.94	24.00	1.276	0.066	22.3
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.086	0.09	22.94	24.00	1.276	0.110	22.3
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.148	-0.15	22.94	24.00	1.276	0.189	22.3
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.140	0.04	22.94	24.00	1.276	0.179	22.3
			В	ody worn To	est data (S	eparate 1	5mm 1RB)				
Front side	20	QPSK 1_0	132322/1745	1:1	0.040	0.09	23.95	25.00	1.274	0.051	22.3
Back side	20	QPSK 1_0	132322/1745	1:1	0.101	0.01	23.95	25.00	1.274	0.129	22.3
			Boo	dy worn Tes	t data (Se	parate 15	mm 50%RB)				
Front side	20	QPSK 50_0	132322/1745	1:1	0.027	0.02	22.94	24.00	1.276	0.034	22.3
Back side	20	QPSK 50_0	132322/1745	1:1	0.083	-0.07	22.94	24.00	1.276	0.106	22.3
				Hotspot Tes	t data (Se	parate 10	mm 1RB)				
Front side	20	QPSK 1_0	132322/1745	1:1	0.047	0.06	23.95	25.00	1.274	0.060	22.3
Back side	20	QPSK 1_0	132322/1745	1:1	0.199	-0.05	23.95	25.00	1.274	0.253	22.3
Left side	20	QPSK 1_0	132322/1745	1:1	0.053	0.19	23.95	25.00	1.274	0.067	22.3
Right side	20	QPSK 1_0	132322/1745	1:1	0.001	-0.14	23.95	25.00	1.274	0.001	22.3
Top side	20	QPSK 1_0	132322/1745	1:1	0.108	0.07	23.95	25.00	1.274	0.138	22.3
			Ho	otspot Test	data (Sepa	arate 10m	m 50%RB)				
Front side		QPSK 50_0		1:1	0.037	0.17	22.94	24.00	1.276	0.047	22.3
Back side	20		132322/1745	1:1	0.168	0.03	22.94	24.00	1.276	0.214	22.3
Left side	20	QPSK 50_0	132322/1745	1:1	0.041	-0.05	22.94	24.00	1.276	0.052	22.3
Right side	20	_	132322/1745	1:1	0.001	0.14	22.94	24.00	1.276	0.001	22.3
Top side	20	QPSK 50_0	132322/1745	1:1	0.086	0.06	22.94	24.00	1.276	0.110	22.3



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8.2.11 SAR Result of LTE Band 71

J.2			OI LIL Da		nd 71 CAI	D Toot Da	oord				
					nd 71 SAI Ant 0 Test		ecora				
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.(℃)
				He	ad Test D	ata (1RB)					
Left cheek	20	QPSK 1_0	133322/683	1:1	0.144	0.05	24.22	25.00	1.197	0.172	22.2
Left tilted	20	QPSK 1_0	133322/683	1:1	0.053	0.09	24.22	25.00	1.197	0.063	22.2
Right cheek	20	QPSK 1_0	133322/683	1:1	0.001	-0.02	24.22	25.00	1.197	0.001	22.2
Right tilted	20	QPSK 1_0	133322/683	1:1	0.001	0.01	24.22	25.00	1.197	0.001	22.2
				Hea	d Test Dat	a (50%RI	3)				
Left cheek	20	QPSK 50_0		1:1	0.117	-0.09	23.15	24.00	1.216	0.142	22.2
Left tilted	20	QPSK 50_0	133322/683	1:1	0.034	-0.06	23.15	24.00	1.216	0.041	22.2
Right cheek	20	QPSK 50_0	133322/683	1:1	0.000	0.04	23.15	24.00	1.216	0.000	22.2
Right tilted	20	QPSK 50_0	133322/683	1:1	0.000	0.12	23.15	24.00	1.216	0.000	22.2
			В	ody worn T	est data (S	Separate 1	5mm 1RB)				
Front side	20	QPSK 1_0	133322/683	1:1	0.123	0.08	24.22	25.00	1.197	0.147	22.2
Back side	20	QPSK 1_0	133322/683	1:1	0.181	-0.02	24.22	25.00	1.197	0.217	22.2
			Вос	dy worn Tes	st data (Se	parate 15	mm 50%RB)				
Front side	20	QPSK 50_0	133322/683	1:1	0.094	0.12	23.15	24.00	1.216	0.114	22.2
Back side	20	QPSK 50_0	133322/683	1:1	0.140	0.04	23.15	24.00	1.216	0.170	22.2
				Hotspot Tes	t data (Se	parate 10	mm 1RB)				
Front side	20	QPSK 1_0	133322/683	1:1	0.128	0.05	24.22	25.00	1.197	0.153	22.2
Back side	20	QPSK 1_0	133322/683	1:1	0.244	-0.09	24.22	25.00	1.197	0.292	22.2
Left side	20	QPSK 1_0	133322/683	1:1	0.090	-0.11	24.22	25.00	1.197	0.108	22.2
Right side	20	QPSK 1_0	133322/683	1:1	0.195	-0.03	24.22	25.00	1.197	0.233	22.2
Bottom side	20	QPSK 1_0	133322/683	1:1	0.153	0.02	24.22	25.00	1.197	0.183	22.2
				otspot Test	data (Sepa	arate 10m	m 50%RB)				
Front side	20	QPSK 50_0	133322/683	1:1	0.085	0.07	23.15	24.00	1.216	0.103	22.2
Back side	20	QPSK 50_0	133322/683	1:1	0.193	0.18	23.15	24.00	1.216	0.235	22.2
Left side	20	QPSK 50_0		1:1	0.064	-0.04	23.15	24.00	1.216	0.078	22.2
Right side	20	QPSK 50_0	133322/683	1:1	0.141	0.06	23.15	24.00	1.216	0.171	22.2
Bottom side	20	QPSK 50_0	133322/683	1:1	0.133	-0.19	23.15	24.00	1.216	0.162	22.2



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8.2.12 SAR Result of WIFI 2.4G

	Wi-Fi 2.4G SAR Test Record												
					Ant2 Te	st Reco	·d						
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.(℃)		
					Head 7	Test Data							
Left cheek	802.11b	6/2437	99.56%	1.004	0.416	-0.04	18.99	20.00	1.262	0.527	22		
Left tilted	802.11b	6/2437	99.56%	1.004	0.274	0.01	18.99	20.00	1.262	0.347	22		
Right cheek	802.11b	6/2437	99.56%	1.004	0.178	0.15	18.99	20.00	1.262	0.226	22		
Right tilted	802.11b	6/2437	99.56%	1.004	0.159	-0.03	18.99	20.00	1.262	0.202	22		
				Body wo	rn Test da	ata (Sepa	rate 15mm)						
Front side	802.11b	6/2437	99.56%	1.004	0.053	0.05	18.99	20.00	1.262	0.067	22		
Back side	802.11b	6/2437	99.56%	1.004	0.090	-0.01	18.99	20.00	1.262	0.114	22		
				Hotspo	t Test dat	a (Separa	ate 10mm)						
Front side	802.11b	6/2437	99.56%	1.004	0.047	0.09	18.99	20.00	1.262	0.060	22		
Back side	802.11b	6/2437	99.56%	1.004	0.160	-0.06	18.99	20.00	1.262	0.203	22		
Left side	802.11b	6/2437	99.56%	1.004	0.001	0.01	18.99	20.00	1.262	0.001	22		
Right side	802.11b	6/2437	99.56%	1.004	0.101	0.12	18.99	20.00	1.262	0.128	22		
Top side	802.11b	6/2437	99.56%	1.004	0.085	0.07	18.99	20.00	1.262	0.108	22		



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8.2.13 SAR Result of WIFI 5G

Power(dBm) Power(dBm) Power(dBm) Carbon Carb					Wi-Fi	5G SAR	Test Re	cord					
Test position Test District Cycle Scaled Scaled Fractor Scaled Sca					A	nt2 Test	Record						
Left cheek 802.11a 64/5320 97.01% 1.031 0.464 0.09 17.65 18.50 1.216 0.582 22. Left tilled 802.11a 64/5320 97.01% 1.031 0.756 0.01 17.65 18.50 1.216 0.430 22. Right cheek 802.11a 64/5320 97.01% 1.031 0.332 0.05 17.65 18.50 1.216 0.430 22. Right tilled 802.11a 56/5260 97.01% 1.031 0.332 0.05 17.65 18.50 1.216 0.430 22. Left tilled 802.11a 56/5260 97.01% 1.031 0.602 0.03 17.29 18.50 1.216 0.416 22. Left tilled 802.11a 56/5260 97.01% 1.031 0.649 0.07 17.33 18.50 1.291 0.400 0.620 22. Left tilled 802.11a 156/5260 97.01% 1.031 0.649 0.07 17.33 18.50 1.291 0.919 22. Left tilled 802.11a 100/5500 97.01% 1.031 0.560 0.01 17.66 18.50 1.271 0.919 22. Left tilled 802.11a 100/5500 97.01% 1.031 0.560 0.01 17.88 18.50 1.294 0.747 21. Left tilled 802.11a 100/5500 97.01% 1.031 0.560 0.01 17.38 18.50 1.294 0.747 21. Left tilled 802.11a 100/5500 97.01% 1.031 0.905 0.05 17.38 18.50 1.294 0.747 21. Left tilled 802.11a 100/5500 97.01% 1.031 0.905 0.05 17.38 18.50 1.294 0.736 22. Right cheek 802.11a 100/5500 97.01% 1.031 0.552 0.05 17.38 18.50 1.294 0.736 21. Right tilled 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.943 21. Left tilled 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.943 21. Left tilled 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.943 21. Left tilled 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.08 18.00 1.242 0.819 21. Left tilled 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.08 18.00 1.242 0.819 21. Left tilled 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.08 18.00 1.242 0.819 21. Left tilled 802.11a 100/5500 97.01% 1.031 0.708 0.03 17.00 18.00 1.242 0.819 21. Left tilled 802.11a 100/5500 97.01% 1.031 0.640 0.03 17.00 18.00 1.242 0.819 21. Left tilled 802.11a 100/5500 97.01% 1.031 0.736 0.02 17.02 18.00 1.253 0.951 21. Left tilled 802.11a 120/5600 97.01% 1.031 0.736 0.02 17.02 18.00 1.256 0.800 2.15 1. Left tilled 802.11a 120/5600 97.01% 1.031 0.740 0.02 17.02 18.00 1.256 0.960 0.351 22. Right cheek 802.11a 164/530 97.01% 1.031 0.740 0.02 16.86 18.00 1.0	Test position				Cycle Scaled	(W/kg)	drift				SAR 1- g	Liquid Temp.(℃)	
Left tilted					Head 7	Test Dat	a of U-N	II-2A					
Right cheek 802.11a 64/5320 97.01% 1.031 0.343 0.14 17.65 18.50 1.216 0.430 22.	Left cheek	802.11a	64/5320	97.01%	1.031	0.464	0.09	17.65	18.50	1.216	0.582	22.1	
Right tilted 802.11a 64/5320 97.01% 1.031 0.332 0.05 17.65 18.50 1.216 0.416 22. Left tilted 802.11a 56/5280 97.01% 1.031 0.602 0.03 17.29 18.50 1.301 0.8076 22. Left tilted 802.11a 60/5300 97.01% 1.031 0.609 0.07 17.33 18.50 1.309 0.876 22. Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 18.50 1.271 0.919 22. Head Test Data of U-NI+2C Head Test Data of U-NI+2C Left tilted 802.11a 100/5500 97.01% 1.031 0.560 0.01 17.38 18.50 1.294 1.214 21.9 Left tilted 802.11a 100/5500 97.01% 1.031 0.910 0.04 17.38 18.50 1.294 1.204 1.207 21.9 Right cheek 802.11a 100/5500 97.01% 1.031 0.950 0.05 17.38 18.50 1.294 1.207 21.9 Right tilted 802.11a 100/5500 97.01% 1.031 0.950 0.05 17.38 18.50 1.294 1.207 21.9 Right tilted 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.736 21.9 Right tilted 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.736 21.9 Left tilted 802.11a 128/560 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.943 21.9 Left tilted 802.11a 128/560 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.943 21.9 Left tilted 802.11a 128/560 97.01% 1.031 0.706 0.03 17.06 18.00 1.242 0.916 21.9 Left tilted 802.11a 108/5540 97.01% 1.031 0.701 0.600 0.03 17.06 18.00 1.242 0.916 21.9 Left tilted 802.11a 108/5540 97.01% 1.031 0.702 0.10 17.02 18.00 1.253 0.920 21.9 Left tilted 802.11a 128/560 97.01% 1.031 0.708 0.02 17.02 18.00 1.253 0.920 21.9 Left tilted 802.11a 128/560 97.01% 1.031 0.755 0.14 16.89 18.00 1.256 0.901 21.9 Left tilted 802.11a 138/560 97.01% 1.031 0.755 0.14 16.89 18.00 1.276 0.986 21.9 Left tilted 802.11a 138/560 97.01% 1.031 0.750 0.04 16.84 18.00 1.276 0.986 21.9 Left tilted 802.11a 138/560 97.01% 1.031 0.750 0.04 16.86 18.00 1.300 0.539 22.1 Left tilted 802.11a 138/560 97.01% 1.031 0.750 0.04 16.86 18.00 1.300 0.500 0.500 22.1 Left tilted 802.11a 138/560 97.01% 1.031 0.750 0.04 16.86 18.00 1.300 0.500 0.500 22.1 Left tilted 802.11a 138/560 97.01% 1.031 0.750 0.04 1.058 18.00 1.300 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500	Left tilted	802.11a	64/5320	97.01%	1.031	0.756	0.01	17.65	18.50	1.216	0.948	22.1	
Left tilted 802.11a 52/5260 97.01% 1.031 0.602 0.03 17.29 18.50 1.321 0.820 22. Left tilted 802.11a 56/5280 97.01% 1.031 0.602 0.03 17.29 18.50 1.320 0.876 22. Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 18.50 1.291 0.919 22. Head Test Data of U-Ni-2C Left cheek 802.11a 100/5500 97.01% 1.031 0.905 0.05 17.38 18.50 1.294 0.747 21. Left tilted 802.11a 100/5500 97.01% 1.031 0.905 0.05 17.38 18.50 1.294 1.207 21. Right cheek 802.11a 100/5500 97.01% 1.031 0.905 0.05 17.38 18.50 1.294 1.207 21. Right tilted 802.11a 100/5500 97.01% 1.031 0.905 0.05 17.38 18.50 1.294 1.207 21. Right tilted 802.11a 100/5500 97.01% 1.031 0.905 0.05 17.38 18.50 1.294 0.736 21. Left tilted 802.11a 100/5500 97.01% 1.031 0.905 0.05 17.38 18.50 1.294 0.736 21. Left tilted 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.736 21. Left tilted 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.736 21. Left tilted 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.736 21. Left tilted 802.11a 100/5500 97.01% 1.031 0.707 0.009 17.08 18.00 1.242 0.916 21. Left tilted 802.11a 108/5500 97.01% 1.031 0.680 0.03 17.06 18.00 1.242 0.819 21. Left tilted 802.11a 108/5500 97.01% 1.031 0.707 0.03 17.06 18.00 1.256 0.880 21. Left tilted 802.11a 120/5600 97.01% 1.031 0.755 0.014 16.89 18.00 1.253 0.951 21. Left tilted 802.11a 120/5600 97.01% 1.031 0.755 0.014 16.89 18.00 1.256 0.901 21. Left tilted 802.11a 124/5600 97.01% 1.031 0.769 0.016 17.01 18.00 1.256 0.901 21. Left tilted 802.11a 136/560 97.01% 1.031 0.769 0.016 16.86 18.00 1.207 0.968 21. Left tilted 802.11a 136/560 97.01% 1.031 0.769 0.04 16.84 18.00 1.300 0.568 22. Left tilted 802.11a 157/5785 97.01% 1.031 0.769 0.04 16.86 18.00 1.300 0.560 0.590 22. Right cheek 802.11a 144/520 97.01% 1.031 0.760 0.04 16.86 18.00 1.300 0.500 0.500 0.500 0.500 0.500 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0	Right cheek	802.11a	64/5320	97.01%	1.031	0.343	-0.14	17.65	18.50	1.216	0.430	22.1	
Left tilted 802.11a 56/5280 97.01% 1.031 0.649 -0.07 17.33 18.50 1.309 0.876 22.1 Left tilted 802.11a 50/5300 97.01% 1.031 0.702 0.18 17.46 18.50 1.271 0.919 22.1 Left cheek 802.11a 100/5500 97.01% 1.031 0.560 0.01 17.38 18.50 1.294 0.747 21.5 Left tilted 802.11a 100/5500 97.01% 1.031 0.905 0.05 17.38 18.50 1.294 1.214 21.5 Left tilted Repeat SAR 802.11a 100/5500 97.01% 1.031 0.905 0.05 17.38 18.50 1.294 0.747 21.5 Right cheek 802.11a 100/5500 97.01% 1.031 0.905 0.05 17.38 18.50 1.294 0.736 21.5 Right tilted 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.736 21.5 Right tilted 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.736 21.5 Left tilted 802.11a 160/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.736 21.5 Left tilted 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.736 21.5 Left tilted 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.736 21.5 Left tilted 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.736 21.5 Left tilted 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.736 21.5 Left tilted 802.11a 100/5500 97.01% 1.031 0.760 0.03 17.06 18.00 1.242 0.916 21.5 Left tilted 802.11a 100/5500 97.01% 1.031 0.760 0.03 17.00 18.00 1.256 0.880 21.5 Left tilted 802.11a 120/5600 97.01% 1.031 0.755 0.14 16.89 18.00 1.256 0.901 21.5 Left tilted 802.11a 132/5600 97.01% 1.031 0.755 0.14 16.89 18.00 1.274 0.996 21.5 Left tilted 802.11a 132/5600 97.01% 1.031 0.765 0.14 16.89 18.00 1.276 0.966 0.707 21.5 Left tilted 802.11a 144/5720 97.01% 1.031 0.765 0.14 16.89 18.00 1.300 0.590 21.5 Left tilted 802.11a 17/5785 97.01% 1.031 0.	Right tilted	802.11a	64/5320	97.01%	1.031	0.332	0.05	17.65	18.50	1.216	0.416	22.1	
Left tilted	Left tilted	802.11a	52/5260	97.01%	1.031	0.602	0.03	17.29	18.50	1.321	0.820	22.1	
Head Test Data of U-NII-2C	Left tilted	802.11a	56/5280	97.01%	1.031	0.649	-0.07	17.33	18.50	1.309	0.876	22.1	
Left cheek 802.11a 100/5500 97.01% 1.031 0.560 0.01 17.38 18.50 1.294 0.747 21.5 Left tilted 802.11a 100/5500 97.01% 1.031 0.910 -0.04 17.38 18.50 1.294 1.214 21.5 Left tilted-Repeat SAR 802.11a 100/5500 97.01% 1.031 0.905 0.05 17.38 18.50 1.294 1.207 21.5 Right cheek 802.11a 100/5500 97.01% 1.031 0.552 -0.05 17.38 18.50 1.294 0.736 21.5 Right cheek 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.736 21.5 Right tilted 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.943 21.5 Left tilted 802.11a 118/5580 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.943 21.5 Left tilted 802.11a 104/5520 97.01% 1.031 0.640 -0.03 17.06 18.00 1.242 0.916 21.5 Left tilted 802.11a 104/5520 97.01% 1.031 0.640 -0.03 17.06 18.00 1.242 0.819 21.5 Left tilted 802.11a 104/5520 97.01% 1.031 0.640 -0.03 17.06 18.00 1.245 0.819 21.5 Left tilted 802.11a 104/5520 97.01% 1.031 0.640 -0.03 17.06 18.00 1.245 0.809 21.5 Left tilted 802.11a 104/5520 97.01% 1.031 0.712 0.16 17.02 18.00 1.256 0.880 21.5 Left tilted 802.11a 12/5560 97.01% 1.031 0.736 0.02 17.02 18.00 1.253 0.920 21.5 Left tilted 802.11a 124/5600 97.01% 1.031 0.736 0.02 17.02 18.00 1.253 0.951 21.5 Left tilted 802.11a 124/5600 97.01% 1.031 0.765 0.14 16.89 18.00 1.251 0.991 21.5 Left tilted 802.11a 144/5700 97.01% 1.031 0.765 0.14 16.89 18.00 1.276 0.966 21.5 Left tilted 802.11a 144/5700 97.01% 1.031 0.763 0.04 16.84 18.00 1.276 0.966 21.5 Left tilted 802.11a 144/5700 97.01% 1.031 0.763 0.04 16.86 18.00 1.300 0.586 22.5 Right cheek 802.11a 144/5709 97.01% 1.031 0.763 0.04 16.86 18.00 1.300 0.566 0.462 22.5 Right theek 802.11a 64/5320 97.01% 1.031 0.760 0.01 17.65 17.50 0.966 0.763 22.5 Right tilted 802.11a 64/5320 97.01% 1.031 0.760 0.01 17.65 17.50 0.966 0.342 22.5 Right tilted 802.11a 64/5320 97.01% 1.031 0.760 0.01 17.65 17.50 0.966 0.331 22.5 Left tilted 802.11a 64/5320 97.01% 1.031 0.340 0.00 17.65 17.50 0.966 0.331 22.5 Left tilted 802.11a 64/5320 97.01% 1.031 0.340 0.00 17.65 17.50 0.966 0.331 22.5 Left tilted 802.11a 64/5320 97.01%	Left tilted	802.11a	60/5300	97.01%	1.031	0.702	0.18	17.46	18.50	1.271	0.919	22.1	
Left tilted 802.11a 100/5500 97.01% 1.031 0.910 -0.04 17.38 18.50 1.294 1.214 21.5 Right cheek 802.11a 100/5500 97.01% 1.031 0.905 0.05 17.38 18.50 1.294 1.207 21.5 Right tilted 802.11a 100/5500 97.01% 1.031 0.905 0.05 17.38 18.50 1.294 0.736 21.5 Right tilted 802.11a 100/5500 97.01% 1.031 0.707 0.05 17.38 18.50 1.294 0.736 21.5 Right tilted 802.11a 16/5580 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.736 21.5 Left tilted 802.11a 14/5520 97.01% 1.031 0.716 -0.03 17.06 18.00 1.242 0.916 21.5 Left tilted 802.11a 14/5520 97.01% 1.031 0.680 0.03 17.06 18.00 1.242 0.819 21.5 Left tilted 802.11a 14/5520 97.01% 1.031 0.680 0.03 17.01 18.00 1.253 0.920 21.5 Left tilted 802.11a 12/5560 97.01% 1.031 0.736 0.02 17.02 18.00 1.253 0.920 21.5 Left tilted 802.11a 12/5560 97.01% 1.031 0.736 0.02 17.02 18.00 1.253 0.951 21.5 Left tilted 802.11a 124/5620 97.01% 1.031 0.736 0.02 17.02 18.00 1.253 0.951 21.5 Left tilted 802.11a 124/5620 97.01% 1.031 0.736 0.02 17.02 18.00 1.253 0.951 21.5 Left tilted 802.11a 124/5620 97.01% 1.031 0.736 0.02 17.01 18.00 1.250 0.951 21.5 Left tilted 802.11a 144/5720 97.01% 1.031 0.736 0.02 17.01 18.00 1.250 0.951 21.5 Left tilted 802.11a 144/5720 97.01% 1.031 0.736 0.02 17.02 18.00 1.250 0.951 21.5 Left tilted 802.11a 144/5720 97.01% 1.031 0.736 0.02 17.01 18.00 1.250 0.951 21.5 Left tilted 802.11a 144/5720 97.01% 1.031 0.736 0.02 17.01 18.00 1.250 0.951 21.5 Left tilted 802.11a 157/5785 97.01% 1.031 0.738 0.14 16.95 18.00 1.260 0.960 21.5 Left tilted 802.11a 144/5720 97.01% 1.031 0.738 0.14 16.95 18.00 1.274 0.969 21.5 Left tilted 802.11a 157/5785 97.01% 1.031 0.760 0.01 16.86 18.00 1.300 0.539 22.5 Right cheek 802.11a 64/5320 97.01% 1.031 0.404 0.09 17.65 17.50 0.966 0.462 22.5 Right theek 802.11a 64/5320 97.01% 1.031 0.404 0.09 17.65 17.50 0.966 0.753 22.5 Right tilted 802.11a 64/5320 97.01% 1.031 0.332 0.05 17.65 17.50 0.966 0.331 22.5 Left tilted 802.11a 64/5320 97.01% 1.031 0.300 0.05 17.29 17.50 1.050 0.661 22.5 Right theek 802.11a 64/5320 97.01% 1.031 0.300 0.05 17.65			I .	I.		Test Dat		II-2C					
Left tilted 802.11a 100/5500 97.01% 1.031 0.910 -0.04 17.38 18.50 1.294 1.214 21.5 Left tilted-Repeat SAR 802.11a 100/5500 97.01% 1.031 0.905 0.05 17.38 18.50 1.294 1.207 21.5 Right cheek 802.11a 100/5500 97.01% 1.031 0.552 -0.05 17.38 18.50 1.294 0.736 21.5 Right tilted 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.736 21.5 Left tilted 802.11a 16/5580 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.736 21.5 Left tilted 802.11a 128/5640 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.943 21.5 Left tilted 802.11a 128/5640 97.01% 1.031 0.706 -0.03 17.06 18.00 1.242 0.916 21.5 Left tilted 802.11a 108/5540 97.01% 1.031 0.680 0.03 17.06 18.00 1.242 0.819 21.5 Left tilted 802.11a 108/5540 97.01% 1.031 0.680 0.03 17.06 18.00 1.256 0.880 21.5 Left tilted 802.11a 12/5560 97.01% 1.031 0.736 0.02 17.02 18.00 1.253 0.920 21.5 Left tilted 802.11a 12/5600 97.01% 1.031 0.736 0.02 17.02 18.00 1.253 0.951 21.5 Left tilted 802.11a 12/5660 97.01% 1.031 0.736 0.02 17.02 18.00 1.253 0.951 21.5 Left tilted 802.11a 132/5660 97.01% 1.031 0.736 0.02 17.02 18.00 1.253 0.951 21.5 Left tilted 802.11a 132/5660 97.01% 1.031 0.736 0.02 17.02 18.00 1.256 0.901 21.5 Left tilted 802.11a 132/5660 97.01% 1.031 0.736 0.02 17.02 18.00 1.256 0.901 21.5 Left tilted 802.11a 132/5660 97.01% 1.031 0.736 0.02 17.02 18.00 1.256 0.901 21.5 Left tilted 802.11a 132/5660 97.01% 1.031 0.755 0.14 16.89 18.00 1.256 0.901 21.5 Left tilted 802.11a 144/5720 97.01% 1.031 0.738 0.14 16.95 18.00 1.256 0.901 21.5 Left tilted 802.11a 144/5720 97.01% 1.031 0.751 0.18 16.83 18.00 1.300 1.276 0.966 21.5 Left tilted 802.11a 144/5720 97.01% 1.031 0.763 0.04 16.86 18.00 1.300 0.562 22.6 Right cheek 802.11a 64/5320 97.01% 1.031 0.760 0.01 17.65 17.50 0.966 0.763 22.5 Right theek 802.11a 64/5320 97.01% 1.031 0.756 0.01 17.65 17.50 0.966 0.763 22.5 Right theek 802.11a 64/5320 97.01% 1.031 0.332 0.05 17.65 17.50 0.966 0.332 22.5 Right tilted 802.11a 60/5300 97.01% 1.031 0.300 0.00 17.29 17.50 1.050 0.661 22.5 Left tilted 802.11a 60/5300 97.01% 1.031 0.300 0.00 17.29 17.50	Left cheek	802.11a	100/5500	97.01%	1.031	0.560	0.01	17.38	18.50	1.294	0.747	21.9	
Left tilled-Repeat SAR 802.11a 100/5500 97.01% 1.031 0.905 0.05 17.38 18.50 1.294 1.207 21.5 Right cheek 802.11a 100/5500 97.01% 1.031 0.552 -0.05 17.38 18.50 1.294 0.736 21.5 Right tilted 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.943 22.5 Left tilted 802.11a 116/5580 97.01% 1.031 0.716 -0.03 17.06 18.00 1.242 0.916 21.5 Left tilted 802.11a 104/5520 97.01% 1.031 0.712 0.16 17.02 18.00 1.256 0.880 21.5 Left tilted 802.11a 120/5600 97.01% 1.031 0.736 0.02 17.02 18.00 1.253 0.920 21.5 Left tilted 802.11a 124/5560 97.01% 1.031 0.735 -0.14 16.89<	Left tilted					0.910				1.294	1.214	21.9	
Right cheek 802.11a 100/5500 97.01% 1.031 0.552 -0.05 17.38 18.50 1.294 0.736 21.5 Right tilled 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.943 21.5 Left tilled 802.11a 116/5580 97.01% 1.031 0.706 -0.03 17.06 18.00 1.242 0.916 21.5 Left tilled 802.11a 116/5580 97.01% 1.031 0.640 -0.03 17.06 18.00 1.242 0.916 21.5 Left tilled 802.11a 108/5520 97.01% 1.031 0.680 0.03 17.01 18.00 1.253 0.920 21.5 Left tilled 802.11a 112/5560 97.01% 1.031 0.755 -0.14 16.89 18.00 1.253 0.951 21.5 Left tilled 802.11a 124/5620 97.01% 1.031 0.756 -0.14 16.89												21.9	
Right tilted 802.11a 100/5500 97.01% 1.031 0.707 0.09 17.38 18.50 1.294 0.943 21.5	<u>_</u>												
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Head Test Data of U-NII-3 Left cheek 802.11n HT20 157/5785 97.01% 1.031 0.437 0.02 16.86 18.00 1.300 0.586 22.2 Left tilted 802.11n HT20 157/5785 97.01% 1.031 0.580 0.13 16.86 18.00 1.300 0.777 22.2 Left tilted 802.11n HT20 157/5785 97.01% 1.031 0.402 -0.07 16.86 18.00 1.300 0.539 22.2 Left cheek 802.11n HT20 157/5785 97.01% 1.031 0.464 0.04 16.86 18.00 1.300 0.622 22.2 Left cheek 802.11a 64/5320 97.01% 1.031 0.464 0.09 17.65 17.50 0.966 0.462 22.4 Left tilted 802.11a 64/5320 97.01% 1.031 0.3464 0.09 17.65 17.50 0.966 0.753 22.4 Left tilted 802.11a 64/5320 97.01% 1.031 0.343 -0.14 17.65 17.50 0.966 0.342 22.4 Right cheek 802.11a 64/5320 97.01% 1.031 0.343 -0.14 17.65 17.50 0.966 0.342 22.4 Right tilted 802.11a 64/5320 97.01% 1.031 0.332 0.05 17.65 17.50 0.966 0.331 22.4 Left tilted 802.11a 52/5260 97.01% 1.031 0.602 0.03 17.29 17.50 1.050 0.651 22.4 Left tilted 802.11a 56/5280 97.01% 1.031 0.649 -0.07 17.33 17.50 1.040 0.696 22.4 Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 17.50 1.009 0.730 22.4 Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 17.50 1.009 0.730 22.4 Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 17.50 1.009 0.730 22.4 Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 17.50 1.009 0.730 22.4 Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 17.50 1.009 0.730 22.4 Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 17.50 1.009 0.730 22.4 Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 17.50 1.009 0.730 22.4 Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 17.50 1.009 0													
Left cheek 802.11n HT20 157/5785 97.01% 1.031 0.437 0.02 16.86 18.00 1.300 0.586 22.2 Left tilted 802.11n HT20 157/5785 97.01% 1.031 0.580 0.13 16.86 18.00 1.300 0.777 22.2 Right cheek 802.11n HT20 157/5785 97.01% 1.031 0.402 -0.07 16.86 18.00 1.300 0.539 22.2 Head Test Data of U-NII-2A for Simultaneous Left cheek 802.11a 64/5320 97.01% 1.031 0.464 0.09 17.65 17.50 0.966 0.462 22.4 Left tilted 802.11a 64/5320 97.01% 1.031 0.3464 0.09 17.65 17.50 0.966 0.753 22.4 Right cheek 802.11a 64/5320 97.01% 1.031 0.343 -0.14 17.65 17.50 0.966 0.342 22.4 Right tilted 802.11a <td>Left tilted</td> <td>802.11a</td> <td>144/5/20</td> <td>97.01%</td> <td></td> <td></td> <td></td> <td></td> <td>18.00</td> <td>1.306</td> <td>1.027</td> <td>21.9</td>	Left tilted	802.11a	144/5/20	97.01%					18.00	1.306	1.027	21.9	
Left cheek HT20 157/5785 97.01% 1.031 0.437 0.02 16.86 18.00 1.300 0.586 22.2 Left tilted 802.11n HT20 157/5785 97.01% 1.031 0.580 0.13 16.86 18.00 1.300 0.777 22.2 Right cheek 802.11n HT20 157/5785 97.01% 1.031 0.402 -0.07 16.86 18.00 1.300 0.539 22.2 Head Test Data of U-NII-2A for Simultaneous Left cheek 802.11a 64/5320 97.01% 1.031 0.464 0.09 17.65 17.50 0.966 0.462 22.4 Left tilted 802.11a 64/5320 97.01% 1.031 0.756 0.01 17.65 17.50 0.966 0.753 22.4 Right cheek 802.11a 64/5320 97.01% 1.031 0.343 -0.14 17.65 17.50 0.966 0.342 22.4 Right tilted 802.11a					Head	Test Da	ta of U-N	NII-3	1				
Eart tilled HT20 137/3783 97.01% 1.031 0.380 0.13 16.86 18.00 1.300 0.777 22.2 Right cheek 802.11n HT20 157/5785 97.01% 1.031 0.402 -0.07 16.86 18.00 1.300 0.539 22.2 Head Test Data of U-NII-2A for Simultaneous Left cheek 802.11a 64/5320 97.01% 1.031 0.464 0.09 17.65 17.50 0.966 0.462 22.7 Left tilted 802.11a 64/5320 97.01% 1.031 0.756 0.01 17.65 17.50 0.966 0.753 22.7 Right cheek 802.11a 64/5320 97.01% 1.031 0.343 -0.14 17.65 17.50 0.966 0.342 22.7 Right tilted 802.11a 64/5320 97.01% 1.031 0.332 0.05 17.65 17.50 0.966 0.331 22.7 <td colsp<="" td=""><td>Left cheek</td><td>HT20</td><td>157/5785</td><td>97.01%</td><td>1.031</td><td>0.437</td><td>0.02</td><td>16.86</td><td>18.00</td><td>1.300</td><td>0.586</td><td>22.2</td></td>	<td>Left cheek</td> <td>HT20</td> <td>157/5785</td> <td>97.01%</td> <td>1.031</td> <td>0.437</td> <td>0.02</td> <td>16.86</td> <td>18.00</td> <td>1.300</td> <td>0.586</td> <td>22.2</td>	Left cheek	HT20	157/5785	97.01%	1.031	0.437	0.02	16.86	18.00	1.300	0.586	22.2
Right cheek HT20 157/5785 97.01% 1.031 0.402 -0.07 16.86 18.00 1.300 0.539 22.2 Right tilted 802.11n HT20 157/5785 97.01% 1.031 0.464 0.04 16.86 18.00 1.300 0.539 22.2 Head Test Data of U-NII-2A for Simultaneous Left cheek 802.11a 64/5320 97.01% 1.031 0.464 0.09 17.65 17.50 0.966 0.462 22.7 Right cheek 802.11a 64/5320 97.01% 1.031 0.343 -0.14 17.65 17.50 0.966 0.753 22.7 Right tilted 802.11a 64/5320 97.01% 1.031 0.342 -0.14 17.65 17.50 0.966 0.342 22.7 Right tilted 802.11a 64/5320 97.01% 1.031 0.332 0.05 17.65 17.50 0.966 0.331 22.7 Left tilted <	Left tilted	HT20	157/5785	97.01%	1.031	0.580	0.13	16.86	18.00	1.300	0.777	22.2	
Head Test Data of U-NII-2A for Simultaneous Head Test Data of U-NII-2A for Simultaneous Left cheek 802.11a 64/5320 97.01% 1.031 0.464 0.09 17.65 17.50 0.966 0.462 22.7 Left tilted 802.11a 64/5320 97.01% 1.031 0.756 0.01 17.65 17.50 0.966 0.753 22.7 Right cheek 802.11a 64/5320 97.01% 1.031 0.343 -0.14 17.65 17.50 0.966 0.342 22.7 Right tilted 802.11a 64/5320 97.01% 1.031 0.332 0.05 17.65 17.50 0.966 0.331 22.7 Left tilted 802.11a 52/5260 97.01% 1.031 0.602 0.03 17.29 17.50 1.050 0.651 22.7 Left tilted 802.11a 56/5280 97.01% 1.031 0.649 -0.07 17.33 17.50 1.040 0.696 22.7 Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 17.50 1.009 0.730 22.7 Head Test Data of U-NII-2C for Simultaneous	Right cheek	HT20			1.031	0.402	-0.07	16.86	18.00	1.300	0.539	22.2	
Left cheek 802.11a 64/5320 97.01% 1.031 0.464 0.09 17.65 17.50 0.966 0.462 22.7 Left tilted 802.11a 64/5320 97.01% 1.031 0.756 0.01 17.65 17.50 0.966 0.753 22.7 Right cheek 802.11a 64/5320 97.01% 1.031 0.343 -0.14 17.65 17.50 0.966 0.342 22.7 Right tilted 802.11a 64/5320 97.01% 1.031 0.332 0.05 17.65 17.50 0.966 0.342 22.7 Left tilted 802.11a 52/5260 97.01% 1.031 0.602 0.03 17.29 17.50 1.050 0.651 22.7 Left tilted 802.11a 56/5280 97.01% 1.031 0.649 -0.07 17.33 17.50 1.040 0.696 22.7 Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 17.	Right tilted	HT20	157/5785						18.00	1.300	0.622	22.2	
Left tilted 802.11a 64/5320 97.01% 1.031 0.756 0.01 17.65 17.50 0.966 0.753 22.0 Right cheek 802.11a 64/5320 97.01% 1.031 0.343 -0.14 17.65 17.50 0.966 0.342 22.0 Right tilted 802.11a 64/5320 97.01% 1.031 0.332 0.05 17.65 17.50 0.966 0.331 22.0 Left tilted 802.11a 52/5260 97.01% 1.031 0.602 0.03 17.29 17.50 1.050 0.651 22.0 Left tilted 802.11a 56/5280 97.01% 1.031 0.649 -0.07 17.33 17.50 1.040 0.696 22.0 Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 17.50 1.009 0.730 22.0 Head Test Data of U-NII-2C for Simultaneous						·							
Right cheek 802.11a 64/5320 97.01% 1.031 0.343 -0.14 17.65 17.50 0.966 0.342 22.0 Right tilted 802.11a 64/5320 97.01% 1.031 0.332 0.05 17.65 17.50 0.966 0.331 22.0 Left tilted 802.11a 52/5260 97.01% 1.031 0.602 0.03 17.29 17.50 1.050 0.651 22.0 Left tilted 802.11a 56/5280 97.01% 1.031 0.649 -0.07 17.33 17.50 1.040 0.696 22.0 Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 17.50 1.009 0.730 22.0 Head Test Data of U-NII-2C for Simultaneous										0.966		22.1	
Right tilted 802.11a 64/5320 97.01% 1.031 0.332 0.05 17.65 17.50 0.966 0.331 22.7 Left tilted 802.11a 52/5260 97.01% 1.031 0.602 0.03 17.29 17.50 1.050 0.651 22.7 Left tilted 802.11a 56/5280 97.01% 1.031 0.649 -0.07 17.33 17.50 1.040 0.696 22.7 Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 17.50 1.009 0.730 22.7 Head Test Data of U-NII-2C for Simultaneous							0.01			0.966	0.753	22.1	
Left tilted 802.11a 52/5260 97.01% 1.031 0.602 0.03 17.29 17.50 1.050 0.651 22.7 Left tilted 802.11a 56/5280 97.01% 1.031 0.649 -0.07 17.33 17.50 1.040 0.696 22.7 Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 17.50 1.009 0.730 22.7 Head Test Data of U-NII-2C for Simultaneous	Right cheek	802.11a	64/5320	97.01%	1.031	0.343	-0.14	17.65	17.50	0.966	0.342	22.1	
Left tilted 802.11a 56/5280 97.01% 1.031 0.649 -0.07 17.33 17.50 1.040 0.696 22.7 Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 17.50 1.009 0.730 22.7 Head Test Data of U-NII-2C for Simultaneous	Right tilted	802.11a	64/5320	97.01%	1.031	0.332	0.05	17.65	17.50	0.966	0.331	22.1	
Left tilted 802.11a 60/5300 97.01% 1.031 0.702 0.18 17.46 17.50 1.009 0.730 22.7 Head Test Data of U-NII-2C for Simultaneous	Left tilted	802.11a	52/5260	97.01%	1.031	0.602	0.03		17.50	1.050	0.651	22.1	
Head Test Data of U-NII-2C for Simultaneous	Left tilted	802.11a	56/5280	97.01%	1.031	0.649	-0.07	17.33	17.50	1.040	0.696	22.1	
	Left tilted	802.11a	60/5300	97.01%	1.031	0.702	0.18	17.46	17.50	1.009	0.730	22.1	
Left cheek 802.11a 100/5500 97.01% 1.031 0.560 0.01 17.38 17.50 1.028 0.593 21.90				Head	Test Data	of U-NI	I-2C for	Simultaneous					
	Left cheek	802.11a	100/5500	97.01%	1.031	0.560	0.01	17.38	17.50	1.028	0.593	21.9	
Left tilted 802.11a 100/5500 97.01% 1.031 0.910 -0.04 17.38 17.50 1.028 0.964 21.9	Left tilted	802.11a	100/5500	97.01%	1.031	0.910	-0.04	17.38	17.50	1.028	0.964	21.9	
Right cheek 802.11a 100/5500 97.01% 1.031 0.552 -0.05 17.38 17.50 1.028 0.585 21.9	Right cheek	802.11a	100/5500	97.01%	1.031	0.552	-0.05	17.38	17.50	1.028	0.585	21.9	
	Right tilted	802.11a	100/5500	97.01%	1.031	0.707	0.09	17.38	17.50	1.028	0.749	21.9	
	Left tilted					0.716	-0.03			0.986		21.9	
	Left tilted	802.11a	128/5640	97.01%	1.031	0.640	-0.03	17.06	17.00	0.986	0.651	21.9	



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Left tilted	802.11a	104/5520	97.01%	1.031	0.680	0.03	17.01	17.00	0.998	0.699	21.9
Left tilted	802.11a	108/5540	97.01%	1.031	0.712	0.16	17.02	17.00	0.995	0.731	21.9
Left tilted	802.11a	112/5560	97.01%	1.031	0.736	0.02	17.02	17.00	0.995	0.755	21.9
Left tilted	802.11a	120/5600	97.01%	1.031	0.755	-0.14	16.89	17.00	1.026	0.798	21.9
Left tilted	802.11a	124/5620	97.01%	1.031	0.696	-0.16	17.01	17.00	0.998	0.716	21.9
Left tilted	802.11a	132/5660	97.01%	1.031	0.749	-0.12	16.94	17.00	1.014	0.783	21.9
Left tilted	802.11a	136/5680	97.01%	1.031	0.738	-0.14	16.95	17.00	1.012	0.770	21.9
Left tilted	802.11a	140/5700	97.01%	1.031	0.751	0.18	16.83	17.00	1.040	0.805	21.9
Left tilted	802.11a	144/5720	97.01%	1.031	0.763	-0.04	16.84	17.00	1.038	0.816	21.9
	'	'	Head	Test Dat	a of U-N	II-3 for S	Simultaneous		'		
Left cheek	802.11n HT20	157/5785	97.01%	1.031	0.437	0.02	16.86	17.00	1.033	0.465	22.2
Left tilted	802.11n HT20	157/5785	97.01%	1.031	0.580	0.13	16.86	17.00	1.033	0.617	22.2
Right cheek	802.11n HT20	157/5785	97.01%	1.031	0.402	-0.07	16.86	17.00	1.033	0.428	22.2
Right tilted	802.11n HT20	157/5785		1.031	0.464	0.04	16.86	17.00	1.033	0.494	22.2
							Separate 15mm				
Front side	802.11a	64/5320		1.031	0.073	-0.05	17.65	18.50	1.216	0.092	22.1
Back side	802.11a			1.031	0.115	0.06	17.65	18.50	1.216	0.144	22.1
	1						Separate 15mm	<u>, </u>	T		
Front side		100/5500		1.031	0.082	0.01	17.38	18.50	1.294	0.109	21.9
Back side	802.11a	100/5500		1.031	0.367	0.06	17.38	18.50	1.294	0.490	21.9
			Body wo	rn Test c	lata of U	-NII-3 (S	eparate 15mm)				
Front side	802.11n HT20	157/5785	97.01%	1.031	0.093	0.03	16.86	18.00	1.300	0.125	22.2
Back side	802.11n HT20	157/5785		1.031	0.363	-0.12	16.86	18.00	1.300	0.487	22.2
	1						parate 10mm)				
Front side	802.11a		97.01%	1.031	0.161	0.01	18.01	18.50	1.119	0.186	22.1
Back side	802.11a	48/5240	97.01%	1.031	0.201	0.06	18.01	18.50	1.119	0.232	22.1
Left side	802.11a		97.01%	1.031	0.071	-0.08	18.01	18.50	1.119	0.082	22.1
Right side	802.11a	48/5240	97.01%	1.031	0.188	0.15	18.01	18.50	1.119	0.217	22.1
Top side	802.11a	48/5240	97.01%	1.031	0.152	0.01	18.01	18.50	1.119	0.175	22.1
	000.44	1	Hotspo	t Test da	ta of U-N	VII-3 (Se	parate 10mm)				
Front side	802.11n HT20	157/5785	97.01%	1.031	0.114	0.09	16.86	18.00	1.300	0.153	22.2
Back side	802.11n HT20 802.11n	157/5785	97.01%	1.031	0.369	0.01	16.86	18.00	1.300	0.495	22.2
Left side	HT20	157/5765		1.031	0.063	0.16	16.86	18.00	1.300	0.084	22.2
Right side	802.11n HT20	157/5785		1.031	0.187	0.07	16.86	18.00	1.300	0.251	22.2
Top side	802.11n HT20	157/5785		1.031	0.454	-0.06	16.86	18.00	1.300	0.608	22.2
Fuent state	000.44						eous (Separate	-	0.700	0.447	00.4
Front side	802.11a	48/5240		1.031	0.161	0.01	18.01	16.50	0.706	0.117	22.1
Back side	802.11a			1.031	0.201	0.06	18.01	16.50	0.706	0.146	22.1
Left side	802.11a	48/5240		1.031	0.071	-0.08	18.01	16.50	0.706	0.052	22.1
Right side	802.11a	48/5240	97.01%	1.031	0.188	0.15	18.01	16.50	0.706	0.137	22.1
Top side	802.11a	48/5240	97.01%	1.031	0.152	0.01	18.01	16.50	0.706	0.111	22.1
	000 44				III-3 for S		eous (Separate	TUMM)	1		
Front side	802.11n HT20	157/5785	97.01%	1.031	0.114	0.09	16.86	16.00	0.820	0.096	22.2
Back side	802.11n HT20	157/5785		1.031	0.369	0.01	16.86	16.00	0.820	0.312	22.2
Left side	802.11n HT20	157/5785		1.031	0.063	0.16	16.86	16.00	0.820	0.053	22.2
Right side	802.11n	157/5785	97.01%	1.031	0.187	0.07	16.86	16.00	0.820	0.158	22.2



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	HT20										
Top side	802.11n HT20	157/5785	97.01%	1.031	0.454	-0.06	16.86	16.00	0.820	0.384	22.2
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
		Produc	t specific	10gSAR	Test da	ta of U-I	VII-2A (Separat	e 0mm)			
Front side	802.11a	64/5320	97.01%	1.031	0.562	0.05	17.65	18.50	1.216	0.705	22.1
Back side	802.11a	64/5320	97.01%	1.031	0.673	-0.14	17.65	18.50	1.216	0.844	22.1
Left side	802.11a	64/5320	97.01%	1.031	0.022	0.01	17.65	18.50	1.216	0.028	22.1
Right side	802.11a	64/5320	97.01%	1.031	0.462	0.03	17.65	18.50	1.216	0.579	22.1
Top side	802.11a	64/5320	97.01%	1.031	1.440	0.01	17.65	18.50	1.216	1.805	22.1
		Produc	t specific	10gSAR	Test da	ta of U-l	VII-2C (Separat	e 0mm)			
Front side	802.11a	100/5500	97.01%	1.031	0.304	0.02	17.38	18.50	1.294	0.406	21.9
Back side	802.11a	100/5500	97.01%	1.031	1.210	-0.04	17.38	18.50	1.294	1.614	21.9
Left side	802.11a	100/5500	97.01%	1.031	0.035	-0.17	17.38	18.50	1.294	0.047	21.9
Right side	802.11a	100/5500	97.01%	1.031	0.605	-0.09	17.38	18.50	1.294	0.807	21.9
Top side	802.11a	100/5500	97.01%	1.031	1.290	0.06	17.38	18.50	1.294	1.721	21.9

Mode	Tune-up (dBm)	Tune-up (mw)	Hightest Reported SAR1-g(W/kg)	Adjusted SAR1-g(W/kg)	SAR test
		Head			
802.11a	18.50	70.79	1.222	1	Yes
802.11n 20M	18.00	63.10	/	1.089	No
802.11n 40M	17.00	50.12	/	0.865	No
802.11ac 20M	18.00	63.10	/	1.089	No
802.11ac 40M	17.00	50.12	/	0.865	No
802.11ac 80M	16.50	44.67	/	0.771	No
802.11ac 160M	0.00	1.00	/	0.017	No

Note: When the highest reported SAR of the initial test configuration, in accordance with the requirements for the initial test position or fixed exposure position, is adjusted by the ratio of the specified maximum output power of the subsequent test configuration to that of the initial test configuration, if the adjusted SAR is greater than 1.2 W/kg, then SAR testing for that subsequent test configuration is required until the SAR is \leq 1.2 W/kg. As for the product's 10g SAR, the highest reported SAR shall refer to 3.0 W/kg for 10g.

Test Position	Test ch./Freq.	Measured SAR (W/kg)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
Left tilted	100/5500	0.916	0.909	1.008	N/A	N/A

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

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

⁵⁾ The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds. The repeated measurement results must be clearly identified in the SAR report.



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8.2.14 SAR Result of BT

				Blu	etooth S	AR Test F	Record					
					Ant2 T	est Recor	·d					
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.(℃)	
Head Test Data												
Left cheek	DH5	39/2441	77.11%	1.297	0.057	-0.09	11.37	12.00	1.156	0.085	22	
Left tilted	DH5	39/2441	77.11%	1.297	0.039	0.01	11.37	12.00	1.156	0.058	22	
Right cheek	DH5	39/2441	77.11%	1.297	0.036	0.05	11.37	12.00	1.156	0.054	22	
Right tilted	DH5	39/2441	77.11%	1.297	0.030	-0.02	11.37	12.00	1.156	0.045	22	
				Body wo	orn Test d	lata (Sepa	rate 15mm)					
Front side	DH5	39/2441	77.11%	1.297	0.005	0.04	11.37	12.00	1.156	0.007	22	
Back side	DH5	39/2441	77.11%	1.297	0.007	-0.02	11.37	12.00	1.156	0.010	22	
				Hotspo	t Test da	ta (Separa	ate 10mm)					
Front side	DH5	39/2441	77.11%	1.297	0.015	0.09	11.37	12.00	1.156	0.022	22	
Back side	DH5	39/2441	77.11%	1.297	0.016	-0.02	11.37	12.00	1.156	0.024	22	
Left side	DH5	39/2441	77.11%	1.297	0.001	0.06	11.37	12.00	1.156	0.001	22	
Right side	DH5	39/2441	77.11%	1.297	0.001	-0.14	11.37	12.00	1.156	0.001	22	
Top side	DH5	39/2441	77.11%	1.297	0.013	0.01	11.37	12.00	1.156	0.019	22	



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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR SAR test evaluation

Simultaneous Transmission Possibilities

No.	Simultaneous Tx Combination	Head	Body	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WLAN 2.4GHz Ant2	Yes	Yes	Yes	Yes
2	WWAN + WLAN 5GHz Ant2	Yes	Yes	Yes	Yes
3	WWAN + BT Ant2	Yes	Yes	Yes	Yes
4	WWAN + WLAN 2.4GHz Ant2 + WLAN 5GHz Ant2	Yes	Yes	Yes	Yes
5	WWAN + WLAN 5GHz Ant2 + BT Ant2	Yes	Yes	Yes	Yes

Note:

1) Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required it wireless router 1g SAR(Scaled to the maximum output power ,including tolerance) < 1.2 W/Kg. Therefore, no further analysis beyond tables included in this section was required to determine that possible Simultaneous transmission scenarios would not exceed the SAR limit.



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8.3.2 Simultaneous Transmission SAR Summation Scenario

Head:

110001	i icau.		SARmax	(W/ka)							
T	:4:	10/10/01	WiFi 2.4G	WiFi 5G	DT 4:-40		S	ummed SA	R		
Test po	osition	WWAN	Ant2	Ant2	BT Ant2						
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+3+4	
	Left cheek	0.390	0.527	0.593	0.085	0.917	0.983	0.475	1.510	1.068	
GSM850	Left tilted	0.225	0.347	0.971	0.058	0.572	1.196	0.283	1.543	1.254	
GSIVIOSO	Right cheek	0.001	0.226	0.585	0.054	0.227	0.586	0.055	0.812	0.640	
	Right tilted	0.001	0.202	0.749	0.045	0.203	0.750	0.046	0.952	0.795	
	Left cheek	0.133	0.527	0.593	0.085	0.660	0.726	0.218	1.253	0.811	
GSM1900	Left tilted	0.145	0.347	0.971	0.058	0.492	1.116	0.203	1.463	1.174	
G0W1300	Right cheek	0.382	0.226	0.585	0.054	0.608	0.967	0.436	1.193	1.021	
	Right tilted	0.436	0.202	0.749	0.045	0.638	1.185	0.481	1.387	1.230	
	Left cheek	0.074	0.527	0.593	0.085	0.601	0.667	0.159	1.194	0.752	
WCDMA B2	Left tilted	0.086	0.347	0.971	0.058	0.433	1.057	0.144	1.404	1.115	
WODIVIA BZ	Right cheek	0.233	0.226	0.585	0.054	0.459	0.818	0.287	1.044	0.872	
	Right tilted	0.238	0.202	0.749	0.045	0.440	0.987	0.283	1.189	1.032	
	Left cheek	0.107	0.527	0.593	0.085	0.634	0.700	0.192	1.227	0.785	
WCDMA B4	Left tilted	0.162	0.347	0.971	0.058	0.509	1.133	0.220	1.480	1.191	
VVCDIVIA B4	Right cheek	0.289	0.226	0.585	0.054	0.515	0.874	0.343	1.100	0.928	
	Right tilted	0.278	0.202	0.749	0.045	0.480	1.027	0.323	1.229	1.072	
	Left cheek	0.295	0.527	0.593	0.085	0.822	0.888	0.380	1.415	0.973	
WCDMA BE	Left tilted	0.165	0.347	0.971	0.058	0.512	1.136	0.223	1.483	1.194	
WCDMA B5	Right cheek	0.001	0.226	0.585	0.054	0.227	0.586	0.055	0.812	0.640	
	Right tilted	0.001	0.202	0.749	0.045	0.203	0.750	0.046	0.952	0.795	
	Left cheek	0.176	0.527	0.593	0.085	0.703	0.769	0.261	1.296	0.854	
LTE Band 12	Left tilted	0.102	0.347	0.971	0.058	0.449	1.073	0.160	1.420	1.131	
LIL Ballu 12	Right cheek	0.001	0.226	0.585	0.054	0.227	0.586	0.055	0.812	0.640	
	Right tilted	0.001	0.202	0.749	0.045	0.203	0.750	0.046	0.952	0.795	
	Left cheek	0.218	0.527	0.593	0.085	0.745	0.811	0.303	1.338	0.896	
LTE Band 13	Left tilted	0.114	0.347	0.971	0.058	0.461	1.085	0.172	1.432	1.143	
LIE Ballu 13	Right cheek	0.001	0.226	0.585	0.054	0.227	0.586	0.055	0.812	0.640	
	Right tilted	0.001	0.202	0.749	0.045	0.203	0.750	0.046	0.952	0.795	
	Left cheek	0.055	0.527	0.593	0.085	0.582	0.648	0.140	1.175	0.733	
LTE Band 25	Left tilted	0.064	0.347	0.971	0.058	0.411	1.035	0.122	1.382	1.093	
LTL Ballu 25	Right cheek	0.204	0.226	0.585	0.054	0.430	0.789	0.258	1.015	0.843	
	Right tilted	0.235	0.202	0.749	0.045	0.437	0.984	0.280	1.186	1.029	
	Left cheek	0.235	0.527	0.593	0.085	0.762	0.828	0.320	1.355	0.913	
LTE Band 26	Left tilted	0.130	0.347	0.971	0.058	0.477	1.101	0.188	1.448	1.159	
LTL Band 20	Right cheek	0.001	0.226	0.585	0.054	0.227	0.586	0.055	0.812	0.640	
	Right tilted	0.001	0.202	0.749	0.045	0.203	0.750	0.046	0.952	0.795	
	Left cheek	0.088	0.527	0.593	0.085	0.615	0.681	0.173	1.208	0.766	
LTE Band 66	Left tilted	0.140	0.347	0.971	0.058	0.487	1.111	0.198	1.458	1.169	
LIL Dallu 00	Right cheek	0.238	0.226	0.585	0.054	0.464	0.823	0.292	1.049	0.877	
	Right tilted	0.228	0.202	0.749	0.045	0.430	0.977	0.273	1.179	1.022	
	Left cheek	0.172	0.527	0.593	0.085	0.699	0.765	0.257	1.292	0.850	
LTE Band 71	Left tilted	0.063	0.347	0.971	0.058	0.410	1.034	0.121	1.381	1.092	
LIE Dallu / I	Right cheek	0.001	0.226	0.585	0.054	0.227	0.586	0.055	0.812	0.640	
	Right tilted	0.001	0.202	0.749	0.045	0.203	0.750	0.046	0.952	0.795	



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Simultaneous Transmission SAR Summation Scenario for WLAN Body:

Body-worn:										
			SARma	x (W/kg)						
Test pos	sition	WWAN	WiFi 2.4G Ant2	WiFi 5G Ant2	BT Ant2		S	Summed S	SAR	
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+3+4
GSM850	Front side	0.360	0.067	0.125	0.007	0.427	0.485	0.367	0.552	0.492
GSIVIOSU	Back side	0.503	0.114	0.490	0.010	0.617	0.993	0.513	1.107	1.003
CSM1000	Front side	0.072	0.067	0.125	0.007	0.139	0.197	0.079	0.264	0.204
GSM1900	Back side	0.251	0.114	0.490	0.010	0.365	0.741	0.261	0.855	0.751
WCDMA D2	Front side	0.034	0.067	0.125	0.007	0.101	0.159	0.041	0.226	0.166
WCDMA B2	Back side	0.113	0.114	0.490	0.010	0.227	0.603	0.123	0.717	0.613
WCDMA D4	Front side	0.061	0.067	0.125	0.007	0.128	0.186	0.068	0.253	0.193
WCDMA B4	Back side	0.134	0.114	0.490	0.010	0.248	0.624	0.144	0.738	0.634
MODMA DE	Front side	0.289	0.067	0.125	0.007	0.356	0.414	0.296	0.481	0.421
WCDMA B5	Back side	0.372	0.114	0.490	0.010	0.486	0.862	0.382	0.976	0.872
LTE Daniel 40	Front side	0.287	0.067	0.125	0.007	0.354	0.412	0.294	0.479	0.419
LTE Band 12	Back side	0.407	0.114	0.490	0.010	0.521	0.897	0.417	1.011	0.907
LTE Band 13	Front side	0.263	0.067	0.125	0.007	0.330	0.388	0.270	0.455	0.395
LIE Ballu 13	Back side	0.387	0.114	0.490	0.010	0.501	0.877	0.397	0.991	0.887
LTE Donal OF	Front side	0.006	0.067	0.125	0.007	0.073	0.131	0.013	0.198	0.138
LTE Band 25	Back side	0.109	0.114	0.490	0.010	0.223	0.599	0.119	0.713	0.609
LTE Dand OC	Front side	0.208	0.067	0.125	0.007	0.275	0.333	0.215	0.400	0.340
LTE Band 26	Back side	0.282	0.114	0.490	0.010	0.396	0.772	0.292	0.886	0.782
LTE Dand CC	Front side	0.051	0.067	0.125	0.007	0.118	0.176	0.058	0.243	0.183
LTE Band 66	Back side	0.129	0.114	0.490	0.010	0.243	0.619	0.139	0.733	0.629
LTE Band 71	Front side	0.147	0.067	0.125	0.007	0.214	0.272	0.154	0.339	0.279
LIE Band / I	Back side	0.217	0.114	0.490	0.010	0.331	0.707	0.227	0.821	0.717



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Hotspot:

Hotspot:			SARma	ax (W/kg)						
Test po	eition	Main	WiFi 2.4G	WiFi 5G	BT Ant2		S	Summed S	SAR	
rest po	SIUOII		Ant2	Ant2						
		1	2	3	4	1+2	1+3	1+4	1+2+3	1+3+4
	Front side	0.335	0.060	0.117	0.022	0.395	0.452	0.357	0.512	0.474
	Back side	1.067	0.203	0.312	0.024	1.270	1.379	1.091	1.582	1.403
GSM850	Left side	0.231	0.001	0.053	0.001	0.232	0.284	0.232	0.285	0.285
	Right side	0.000	0.128	0.158	0.001	0.128	0.158	0.001	0.286	0.159
	Top side	0.580	0.108	0.384	0.019	0.688	0.964	0.599	1.072	0.983
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.109	0.060	0.117	0.022	0.169	0.226	0.131	0.286	0.248
	Back side	0.493	0.203	0.312	0.024	0.696	0.805	0.517	1.008	0.829
GSM1900	Left side	0.136	0.001	0.053	0.001	0.137	0.189	0.137	0.190	0.190
	Right side	0.000	0.128	0.158	0.001	0.128	0.158	0.001	0.286	0.159
	Top side	0.258	0.108	0.384	0.019	0.366	0.642	0.277	0.750	0.661
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.056	0.060	0.117	0.022	0.116	0.173	0.078	0.233	0.195
	Back side	0.243	0.203	0.312	0.024	0.446	0.555	0.267	0.758	0.579
WCDMA B2	Left side	0.069	0.001	0.053	0.001	0.070	0.122	0.070	0.123	0.123
	Right side	0.001	0.128	0.158	0.001	0.129	0.159	0.002	0.287	0.160
	Top side	0.136	0.108	0.384	0.019	0.244	0.520	0.155	0.628	0.539
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.065	0.060	0.117	0.022	0.125	0.182	0.087	0.242	0.204
	Back side	0.282	0.203	0.312	0.024	0.485	0.594	0.306	0.797	0.618
WCDMA B4	Left side	0.066	0.001	0.053	0.001	0.067	0.119	0.067	0.120	0.120
VVODIVI/CB-	Right side	0.001	0.128	0.158	0.001	0.129	0.159	0.002	0.287	0.160
	Top side	0.144	0.108	0.384	0.019	0.252	0.528	0.163	0.636	0.547
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.296	0.060	0.117	0.022	0.356	0.413	0.318	0.473	0.435
	Back side	0.841	0.203	0.312	0.024	1.044	1.153	0.865	1.356	1.177
WCDMA B5	Left side	0.196	0.001	0.053	0.001	0.197	0.249	0.197	0.250	0.250
WODINE COO	Right side	0.375	0.128	0.158	0.001	0.503	0.533	0.376	0.661	0.534
	Top side	0.000	0.108	0.384	0.019	0.108	0.384	0.019	0.492	0.403
	Bottom side	0.447	0.000	0.000	0.000	0.447	0.447	0.447	0.447	0.447
	Front side	0.313	0.060	0.117	0.022	0.373	0.430	0.335	0.490	0.452
	Back side	0.432	0.203	0.312	0.024	0.635	0.744	0.456	0.947	0.768
LTE Band 12	Left side	0.245	0.001	0.053	0.001	0.246	0.298	0.246	0.299	0.299
LTE Band 12	Right side	0.425	0.128	0.158	0.001	0.553	0.583	0.426	0.711	0.584
	Top side	0.000	0.108	0.384	0.019	0.108	0.384	0.019	0.492	0.403
	Bottom side	0.216	0.000	0.000	0.000	0.216	0.216	0.216	0.216	0.216
	Front side	0.278	0.060	0.117	0.022	0.338	0.395	0.300	0.455	0.417
	Back side	0.523	0.203	0.312	0.024	0.726	0.835	0.547	1.038	0.859
LTE Band 13	Left side	0.192	0.001	0.053	0.001	0.193	0.245	0.193	0.246	0.246
LIL Dallu 13	Right side	0.413	0.128	0.158	0.001	0.541	0.571	0.414	0.699	0.572
	Top side	0.000	0.108	0.384	0.019	0.108	0.384	0.019	0.492	0.403
	Bottom side	0.325	0.000	0.000	0.000	0.325	0.325	0.325	0.325	0.325
LTE Band 25	Front side	0.049	0.060	0.117	0.022	0.109	0.166	0.071	0.226	0.188
LIL Balla 23	Back side	0.229	0.203	0.312	0.024	0.432	0.541	0.253	0.744	0.565



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	Left side	0.064	0.001	0.053	0.001	0.065	0.117	0.065	0.118	0.118
	Right side	0.035	0.128	0.158	0.001	0.163	0.193	0.036	0.321	0.194
	Top side	0.119	0.108	0.384	0.019	0.227	0.503	0.138	0.611	0.522
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.313	0.060	0.117	0.022	0.373	0.430	0.335	0.490	0.452
	Back side	0.550	0.203	0.312	0.024	0.753	0.862	0.574	1.065	0.886
LTE Band 26	Left side	0.131	0.001	0.053	0.001	0.132	0.184	0.132	0.185	0.185
LIE Ballu 20	Right side	0.258	0.128	0.158	0.001	0.386	0.416	0.259	0.544	0.417
	Top side	0.000	0.108	0.384	0.019	0.108	0.384	0.019	0.492	0.403
	Bottom side	0.308	0.000	0.000	0.000	0.308	0.308	0.308	0.308	0.308
	Front side	0.060	0.060	0.117	0.022	0.120	0.177	0.082	0.237	0.199
	Back side	0.253	0.203	0.312	0.024	0.456	0.565	0.277	0.768	0.589
LTE Band 66	Left side	0.067	0.001	0.053	0.001	0.068	0.120	0.068	0.121	0.121
LIE Ballu 00	Right side	0.001	0.128	0.158	0.001	0.129	0.159	0.002	0.287	0.160
	Top side	0.138	0.108	0.384	0.019	0.246	0.522	0.157	0.630	0.541
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Front side	0.153	0.060	0.117	0.022	0.213	0.270	0.175	0.330	0.292
	Back side	0.292	0.203	0.312	0.024	0.495	0.604	0.316	0.807	0.628
LTE Band 71	Left side	0.108	0.001	0.053	0.001	0.109	0.161	0.109	0.162	0.162
	Right side	0.233	0.128	0.158	0.001	0.361	0.391	0.234	0.519	0.392
	Top side	0.000	0.108	0.384	0.019	0.108	0.384	0.019	0.492	0.403
	Bottom side	0.183	0.000	0.000	0.000	0.183	0.183	0.183	0.183	0.183



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9 Equipment list

	Test Platform	SPEAG DASY	5 Professional									
	Description	SAR Test Syste	em									
;	Software Reference	DASY52 52.10	DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)									
			Hardware Referer	nce								
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration						
	E-Field Probe	SPEAG	EX3DV4	7767	2024-12-31	2025-12-30						
\boxtimes	Twin Phantom	SPEAG	SAM8	1824	NCR	NCR						
\boxtimes	DAE	SPEAG	DAE4	1484	2024-10-15	2025-10-14						
	Validation Kits	SPEAG	D750V3	1214	2025-04-01	2028-03-31						
	Validation Kits	SPEAG	D835V2	4d161	2023-08-25	2026-08-24						
\boxtimes	Validation Kits	SPEAG	D1750V2	1105	2023-11-03	2026-11-02						
\boxtimes	Validation Kits	SPEAG	D1950V3	1218	2023-05-04	2026-05-03						
\boxtimes	Validation Kits	SPEAG	D2450V2	922	2023-08-28	2026-08-27						
\boxtimes	Validation Kits	SPEAG	D5GHzV2	1174	2023-08-23	2026-08-22						
\boxtimes	Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2024-08-20	2025-08-19						
\boxtimes	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	50920	2024-08-19	2025-08-18						
	Universal Radio Communication Tester	R&S	CMW500	111637	2024-09-12	2025-09-11						
\boxtimes	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR						
\boxtimes	Signal Generator	R&S	SMB100A	182393	2025-02-05	2026-02-04						
\boxtimes	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR						
\boxtimes	USB Average Power Sensor	Keysight	U2002H	MY5639004	2024-09-10	2025-09-09						
	USB Average Power Sensor	Agilent	U2002H	MY48200110	2024-11-21	2025-11-20						
\boxtimes	Attenuator	SHX	TS2-3dB	30704	NCR	NCR						
\boxtimes	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR						
\boxtimes	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR						
\boxtimes	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR						
	Speed reading thermometer	LKM	DTM3000	NA	2024-09-16	2025-09-15						
\boxtimes	Humidity and Temperature Indicator	MingGao	MingGao	NA	2024-09-16	2025-09-15						

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



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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

Appendix E: Conducted RF Output Power