



SAR TEST REPORT

Report No.: 20240817G16124X-W2
Product Name: SOLIS LITE
Model Name: S018
Trade Name: SIMO
FCC ID: 2A9UPS018L
Applicant: SIMO Holdings Inc.
Address: P.O.Box 309, Ugland House, GrandCayman, KY1-1104, Cayman Islands
Test Date: 2024/08/28~2024/09/14
Issued by: CCIC Southern Testing Co., Ltd.
Lab Location: Electronic Testing Building, No.43, Shahe Road, Xili Street,
Nanshan District, Shenzhen, Guangdong, China
Tel: 86-755-26627338 **E-Mail:** manager@ccic-set.com

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Test Report

Applicant: SIMO Holdings Inc.

Applicant Address: P.O.Box 309, Ugland House, GrandCayman, KY1-1104, Cayman Islands

Manufacturer: Skyroam Technology Co., Ltd.

Manufacturer Address: No.902, 9th Floor, Weisheng Technology Building, No.9966 Shennan Avenue, Shenzhen, Guangdong, China

FCC 47 CFR Part 2(2.1093): Radiofrequency Radiation Exposure Evaluation: Portable Devices

Test Standards: **ANSI C95.1-1992:** Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.(IEEE Std C95.1-1991)

IEEE 1528-2013: IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques

Test Result: Pass

Tested by: Carl Wei 2024-09-19

Carl Wei, Test Engineer

Reviewed by: Sun Jiaohui 2024-09-19

Sun Jiaohui, Senior Engineer

Approved by: Chris You 2024-09-19

Chris You, Manager



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1. Administrative Data

1.1 Testing Laboratory

Test Site:	CCIC Southern Testing Co., Ltd.
Address:	Electronic Testing Building, No.43, Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China
A2LA Lab Code:	CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025:2017. The accreditation certificate number is 5721.01
FCC Registration:	CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until June.30, 2025.
ISED Registration:	CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until June.30, 2025.
Test Environment Condition:	Temperature (°C): 18 °C ~25 °C Relative Humidity (%): 35%~75% RH Atmospheric Pressure (kPa): 86KPa-106KPa

2. Equipment Under Test (EUT)

Identification of the Equipment under Test

Device type :	portable device	
Exposure category:	uncontrolled environment / general population	
Product Name:	SOLIS LITE	
Brand Name:	SIMO	
Model Name:	S018	
Operating Band(s):	WCDMA Band 850/1700/1900,LTE Band 2/4/5/7/12/17/25/26/38/41/71 WIFI2.4G, WIFI5G ,Bluetooth	
Test Band(s):	WCDMA Band 850/1700/1900,LTE Band 2/4/5/7/12/17/25/26/38/41/71 WIFI2.4G, WIFI5G ,Bluetooth	
Test modulation:	WCDMA(QPSK),LTE(QPSK/16QAM/64QAM), WI-FI 2.4G(DSSS, OFDM), WI-FI 5G(OFDM), Bluetooth(GFSK/ π /4-DQPSK/8-DPSK)	
IMEI:	868472047062312/868472047082310	
Tested frequency range(s)	transmitter frequency range	receiver frequency range
WCDMA Band V:	824-849 MHz	869-894 MHz
WCDMA Band IV:	1710-1755 MHz	2110-2155 MHz
WCDMA Band II:	1850-1910 MHz	1930-1990 MHz
LTE Band 2:	1850-1910 MHz	1930-1990 MHz
LTE Band 4:	1710-1755 MHz	2110-2155 MHz
LTE Band 5:	824-849 MHz	869-894 MHz
LTE Band 7:	2500-2570 MHz	2620-2690 MHz
LTE Band 12:	698-716 MHz	728-746 MHz
LTE Band 17:	704-716 MHz	734-746 MHz
LTE Band 25:	1850-1915 MHz	1930-1995 MHz
LTE Band 26:	814-849 MHz	859-894 MHz
LTE Band 38:	2570-2620 MHz	
LTE Band 41:	2555-2655 MHz	
LTE Band 71:	663-698 MHz	617-652 MHz
Wi-Fi:	2412-2462 MHz	
	5150-5250 MHz	
	5725-5850 MHz	
Bluetooth:	2402-2480 MHz	
Antenna type :	Internal antenna	
Hotspot :	WLAN support Hotspot mode(5G WLAN only for B1 & B4)	
Battery options :	Model No.: Y3919A Rated Capacity:4700mAh Rated Voltage: 3.7 V Charge Limit: 4.35 V Manufacturer: Shen Zhen JiaYuanTongDa Technology Co.,Ltd	
MAX. SAR Value:	Body-worn: 0.987 W/Kg(Limit:1.6W/Kg 1-g SAR, 5mm distance) Hotspot: 0.987 W/Kg(Limit:1.6W/Kg 1-g SAR, 5mm distance)	

Note:



1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

3. SAR Summary

Highest Standalone SAR Summary

Exposure Position	Frequency Band	Scaled 1g-SAR(W/kg)	Highest Scaled 1g-SAR(W/kg)
Body-worn (5mm Gap)	WCDMA 850	0.829	0.987
	WCDMA 1700	0.585	
	WCDMA 1900	0.540	
	LTE Band 2	0.987	
	LTE Band 4	0.871	
	LTE Band 5	0.804	
	LTE Band 7	0.951	
	LTE Band 12	0.757	
	LTE Band 17	0.812	
	LTE Band 25	0.836	
	LTE Band 26	0.759	
	LTE Band 38	0.781	
	LTE Band 41	0.702	
	LTE Band 71	0.364	
	WIFI 2.4G	0.345	
	WIFI 5G U-NII 1	0.218	
	WIFI 5G U-NII 3	0.320	
	Bluetooth	0.032	



Exposure Position	Frequency Band	Scaled 1g-SAR(W/kg)	Highest Scaled 1g-SAR(W/kg)
Hotspot (5mm Gap)	WCDMA 850	0.829	0.987
	WCDMA 1700	0.844	
	WCDMA 1900	0.704	
	LTE Band 2	0.987	
	LTE Band 4	0.871	
	LTE Band 5	0.804	
	LTE Band 7	0.951	
	LTE Band 12	0.757	
	LTE Band 17	0.812	
	LTE Band 25	0.836	
	LTE Band 26	0.759	
	LTE Band 38	0.781	
	LTE Band 41	0.702	
	LTE Band 71	0.364	
	WIFI 2.4G	0.345	
	WIFI U-NII 1	0.218	
	WIFI U-NII 3	0.433	

Highest Simultaneous SAR Summary

Exposure Position	Frequency Band	Highest Simultaneous 1g-SAR(W/kg)
Right Cheek (0mmGap)	WWAN(LTE Band 2) & WIFI 2.4G	1.332

4. Specific Absorption Rate (SAR)

4.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$\text{SAR} = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

$$\text{SAR} = C \frac{\delta T}{\delta t}$$

where C is the specific heat capacity, δT is the temperature rise and δt the exposure duration, or related to the electrical field in the tissue by

$$\text{SAR} = \frac{\sigma |E|^2}{\rho}$$

where σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the rms electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.



4.2 Applicable Standards and Limits

4.2.1 Applicable Standards

FCC 47 CFR Part 2(2.1093)	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI C95.1–1992	Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528–2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 248227 D01	v02r02 802.11 Wi-Fi SAR
KDB 447498 D01	v06 General RF Exposure Guidance
KDB 616217 D04	v01r02 SAR for laptop and tablets
KDB 648474 D04	v01r03 Handset SAR
KDB 865664 D01	v01r04 SAR Measurement 100MHz to 6GHz
KDB 865664 D02	v01r02 SAR Exposure Reporting
KDB 941225 D01	v03r01 3G SAR Procedures
KDB 941225 D05	v02r05 SAR for LTE Devices
KDB 941225 D05A	v01r02 LTE Rel.10 KDB Inquiry Sheet
KDB 941225 D06	v02r01 Hotspot Mode

4.2.2 RF exposure Limits

Human Exposure	Uncontrolled Environment General Population
Spatial Peak SAR* (Brain/Body)	1.60 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g
Spatial Peak SAR*** (Limbs)	4.00 mW/g

The limit applied in this test report is shown in bold letters.

Notes:

* The Spatial Peak value of the SAR averaged over any 1 grams 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.

4.3 Phantoms

The phantom used for all tests i.e. for both system checks and device testing, was the twin-headed "SAM Phantom", manufactured by SATIMO. The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness increases to 6mm).

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.



SAM Twin Phantom

4.4 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SATIMO as an integral part of the COMOSAR test system.

The device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.



Device holder

4.5 Probe Specification

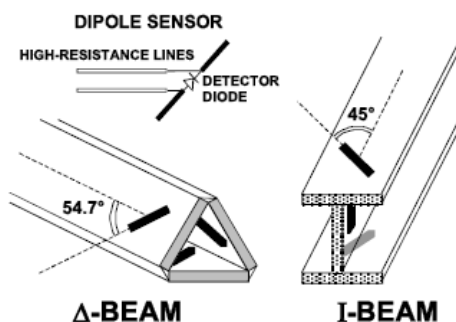


Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	700 MHz to 3 GHz; Linearity: ± 0.5 dB (700 MHz to 3 GHz)
Directivity	± 0.25 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	1.5 μ W/g to 100 mW/g; Linearity: ± 0.5 dB
Dimensions	Overall length: 330 mm (Tip: 20 mm) Tip diameter: 5 mm Distance from probe tip to dipole centers: <2.7 mm
Application	General dosimetry up to 3 GHz Dosimetry in strong gradient fields Compliance tests of mobile phones
Compatibility	COMOSAR

Isotropic E-Field Probe

The isotropic E-Field probe has been fully calibrated and assessed for isotropicity, and boundary effect within a controlled environment. Depending on the frequency for which the probe is calibrated the method utilized for calibration will change.

The E-Field probe utilizes a triangular sensor arrangement as detailed in the diagram below:



5. Tissue check and recommend Dielectric Parameters

5.1 Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness Power drifts in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

Table 1: Recommended Dielectric Performance of Tissue

Frequency (MHz)	Tissue	
	Real part of the complex relative permittivity, ϵ_r	Conductivity, σ (S/m)
30	55	0.75
150	52.3	0.76
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.9
900	41.5	0.97
1450	40.5	1.2
1800	40	1.4
1900	40	1.4
1950	40	1.4
2000	40	1.4
2100	39.8	1.49
2450	39.2	1.8
2600	39	1.96
3000	38.5	2.4
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
5000	36.2	4.45
5200	36	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27
6000	35.1	5.48



5.2 Simulate liquid

Liquid check results:

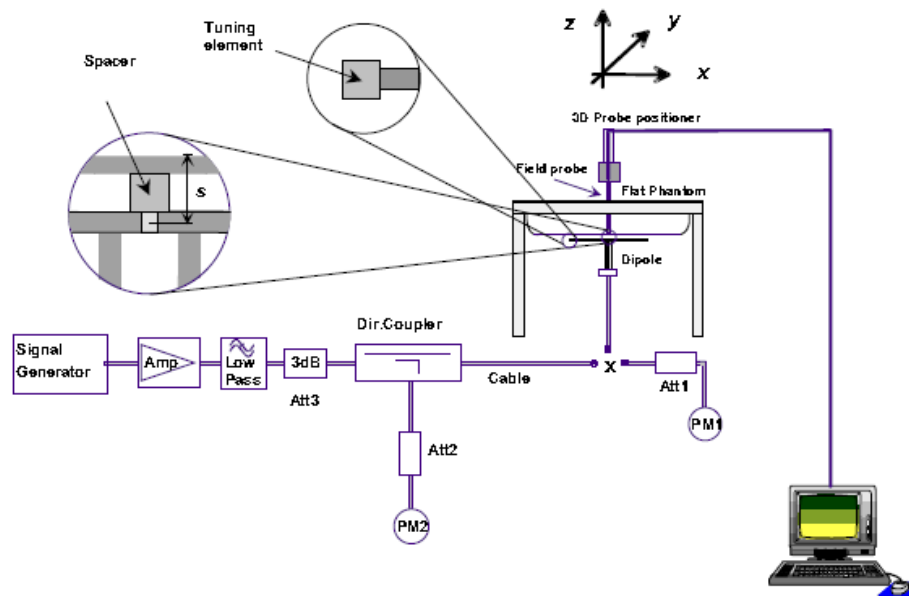
Table 3: Dielectric Performance of Tissue Simulating Liquid

/	Frequency	Permittivity ϵ	Conductivity σ (S/m)	Liquid Temp. (°C)	Test Date
Target value	750MHz	41.9±5% (39.805~43.995)	0.89±5% (0.8455~0.9345)	22.0	2024/09/08
Validation value		41.25	0.87		
Target value	835MHz	41.5±5% (39.425~43.575)	0.90±5% (0.855~0.945)	22.0	2024/09/12
Validation value		42.29	0.93		
Target value	1800MHz	40.0±5% (38.0~42.0)	1.40±5% (1.33~1.47)	22.2	2024/09/14
Validation value		41.15	1.40		
Target value	1900MHz	40.0±5% (38.0~42.0)	1.40±5% (1.33~1.47)	21.7	2024/09/11
Validation value		40.09	1.42		
Target value	2450MHz	39.2±5% (37.24~41.16)	1.80±5% (1.71~1.89)	22.2	2024/09/01
Validation value		38.78	1.76		
Target value	2600MHz	39.0±5% (37.05~40.95)	1.96±5% (1.862~2.058)	22.1	2024/09/10
Validation value		38.11	1.97		
Target value	5200MHz	36.0±5% (34.20~37.80)	4.66±5% (4.427~4.893)	21.6	2024/08/28
Validation value		36.42	4.59		
Target value	5800MHz	35.3±5% (33.535~37.065)	5.27±5% (5.0065~5.5335)	21.5	2024/08/30
Validation value		35.43	5.14		

SAR System validation

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

The following procedure, recommended for performing validation tests using box phantoms is based on the procedures described in the IEEE standard P1528. Setup according to the setup diagram below:



With the SG and Amp and with directional coupler in place, set up the source signal at the relevant frequency and use a power meter to measure the power at the end of the SMA cable that you intend to connect to the balanced dipole. Adjust the SG to make this, say, 0.01W (10 dBm). If this level is too high to read directly with the power meter sensor, insert a calibrated attenuator (e.g. 10 or 20 dB) and make a suitable correction to the power meter reading.

- Note 1: In this method, the directional coupler is used for monitoring rather than setting the exact feed power level. If, however, the directional coupler is used for power measurement, you should check the frequency range and power rating of the coupler and measure the coupling factor (referred to output) at the test frequency using a VNA.
- Note 2: Remember that the use of a 3dB attenuator (as shown in Figure 8.1 of P1528) means that you need an RF amplifier of 2 times greater power for the same feed power. The other issue is the cable length. You might get up to 1dB of loss per meter of cable, so the cable length after the coupler needs to be quite short.
- Note 3: For the validation testing done using CW signals, most power meters are suitable. However, if you are measuring the output of a modulated signal from either a signal generator or a handset, you must ensure that the power meter correctly reads the modulated signals.

The measured 1-gram averaged SAR values of the device against the phantom are provided in Tables 5 and Table 6. The body phantom were full of the body tissue simulating liquid. The EUT was supplied with full-charged battery for each measurement.

The distance between the back of the EUT and the bottom of the flat phantom is 10 mm (taking into account of the IEEE 1528 and the place of the antenna).

Table 4: system validation (1g)
System Check Results

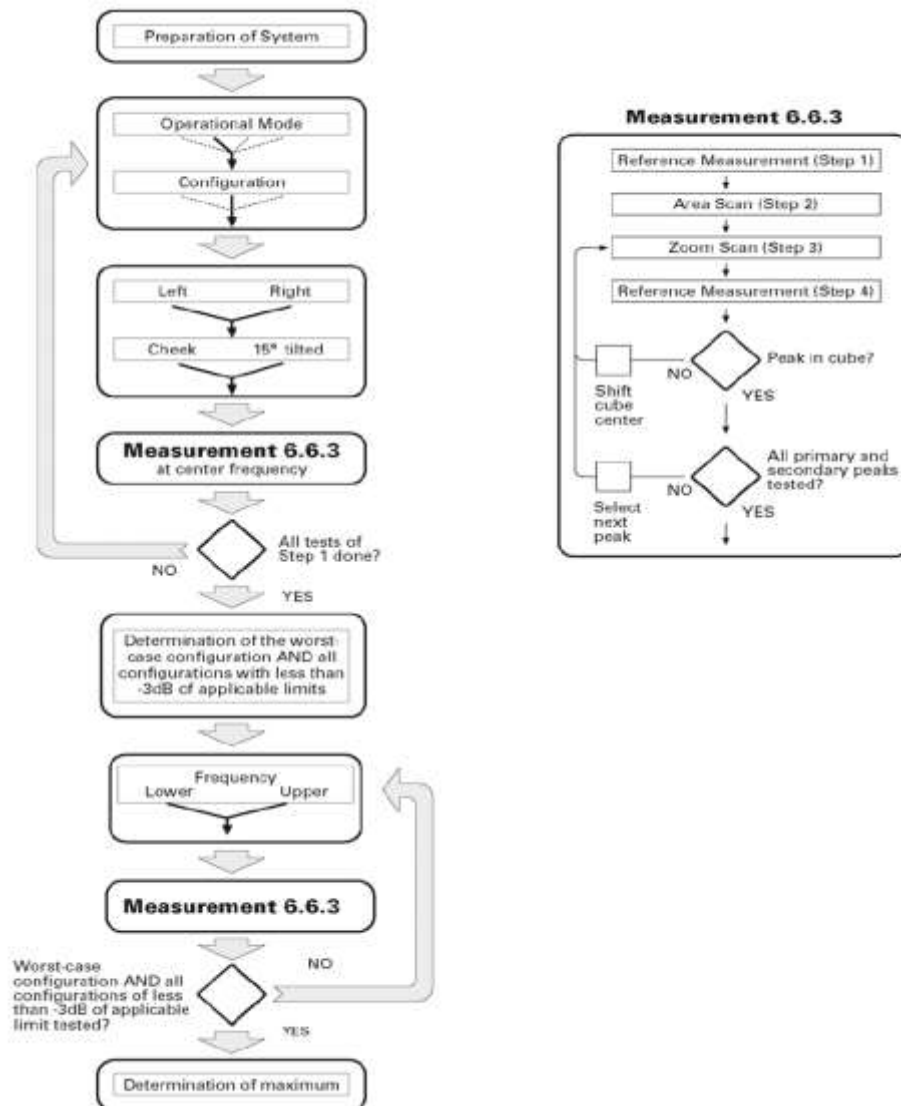
Frequency	Duty cycle	Target value (1-g) (W/Kg)	10mW Test value (1-g) (W/Kg)	Test SAR Normalized to 1W(w/Kg)	Test Date
750MHz	1:1	8.65 W/kg±10% (7.785~9.515)	0.0858	8.58	2024/09/08
835MHz	1:1	9.93 W/kg±10% (8.937~10.923)	0.1020	10.20	2024/09/12
1800MHz	1:1	37.81 W/kg±10% (34.029~41.591)	0.3850	38.50	2024/09/14
1900MHz	1:1	41.50 W/kg±10% (37.350~45.650)	0.3793	37.93	2024/09/11
2450MHz	1:1	51.74 W/kg±10% (46.566~56.914)	0.5206	52.06	2024/09/01
2600MHz	1:1	57.13 W/kg±10% (51.417~62.843)	0.5937	59.37	2024/09/10
5200MHz	1:1	152.95 W/kg±10% (137.655~168.245)	1.4736	147.36	2024/08/28
5800MHz	1:1	174.67 W/kg±10% (157.203~192.137)	1.7570	175.70	2024/08/30

Note:

1. Target value was referring to the measured value in the calibration certificate of reference dipole.
2. All SAR values are normalized to 1W forward power.

6. SAR measurement procedure

The SAR test against the head phantom was carried out as follow:



Establish a call with the maximum output power with a base station simulator, the connection between the EUT and the base station simulator is established via air interface.

After an area scan has been done at a fixed distance of 2mm from the surface of the phantom on the source side, a 3D scan is set up around the location of the maximum spot SAR. First, a point within the scan area is visited by the probe and a SAR reading taken at the start of testing. At the end of testing, the probe is returned to the same point and a second reading is taken. Comparison between these start and end readings enables the power drift during measurement to be assessed.

Above is the scanning procedure flow chart and table from the IEEE p1528 standard. This is the procedure for which all compliant testing should be carried out to ensure that all variations of the device position and transmission behavior are tested.

7. Conducted RF Output Power

7.2 WCDMA Conducted output Power

WCDMA S850 (Band V)		Averaged output Power (dBm)		
		4132CH	4183CH	4233CH
		826.4	836.6	846..6
WCDMA	12.2kbps RMC	23.82	23.65	23.52
HSDPA	Subtest 1	22.79	22.63	22.55
	Subtest 2	22.30	22.13	22.05
	Subtest 3	22.31	22.14	22.15
	Subtest 4	22.29	22.08	22.05
HSUPA	Subtest 1	20.82	20.61	20.53
	Subtest 2	20.81	20.64	20.55
	Subtest 3	21.83	21.62	21.56
	Subtest 4	20.34	20.16	20.11
	Subtest 5	21.77	21.61	21.50
WCDMA 1700 (Band IV)		Averaged output Power (dBm)		
		1312CH	1413CH	1513CH
		1712.4	1732.6	1752.6
WCDMA	12.2kbps RMC	23.94	23.86	24.10
HSDPA	Subtest 1	22.95	22.88	23.20
	Subtest 2	22.46	22.31	22.65
	Subtest 3	22.48	22.41	22.68
	Subtest 4	22.37	22.34	22.64
HSUPA	Subtest 1	20.92	20.82	21.08
	Subtest 2	20.94	19.91	20.15
	Subtest 3	21.95	21.86	22.14
	Subtest 4	20.43	20.38	20.64
	Subtest 5	21.99	21.93	22.12
WCDMA 1900 (Band II)		Averaged output Power (dBm)		
		9262CH	9400CH	9538CH
		1852.4	1880.0	1907.6
WCDMA	12.2kbps RMC	24.80	24.29	24.06
HSDPA	Subtest 1	23.69	23.29	23.14
	Subtest 2	23.19	22.77	22.61
	Subtest 3	23.29	22.85	22.66
	Subtest 4	23.28	22.82	22.64
HSUPA	Subtest 1	21.73	21.29	21.12
	Subtest 2	21.69	21.26	21.01
	Subtest 3	22.71	22.25	22.06
	Subtest 4	21.19	20.74	20.53
	Subtest 5	22.74	22.28	22.15



Note:

1. WCDMA SAR was tested under RMC 12.2kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. HSPA SAR was not required since the average output power of the HSPA subtests was not more than 0.25dB higher than the RMC level and SAR was less than 1.2W/kg.
2. It is expected by the manufacturer that MPR for some HSPA subtests may be up to 2dB more than specified by 3GPP, but also as low as 0dB according to the chipset implementation in this model

7.3 LTE Conducted peak output Power

LTE Test Configurations

The CMW500 Wide Band Radio Communication Tester was used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR test were performed with the same number of RB and RB offsets transmitting on all frames.

1) Spectrum Plots for RB configurations

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

2) MPR

When MPR is implemented permanently within the UE, regardless of network requirements, only those RB configurations allowed by 3GPP for the channel bandwidth and modulation combinations may be tested with MPR active. Configurations with RB allocations less than the RB thresholds required by 3GPP must be tested without MPR.

The allowed Maximum Power Reduction(MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101:

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

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

3) A-MPR LTE procedures for SAR testing

A-MPR(Additional MPR) has been disabled for all SAR tests by using Network Signaling Value of “NS_01” on the base station simulator.

4) LTE procedures for SAR testing

A) Largest channel bandwidth standalone SAR test

requirements i) 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 $\leq 0.8\text{W/kg}$, testing of the remaining RB offset configurations and required test channels is not required for 1RB 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 $> 1.45\text{W/kg}$, SAR is required for all three RB offset configurations for that required test channel.



1. LTE Band 2 Conducted Power Test Verdict:

LTE FDD Band 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18607/1850.7	18900/1880.0	19193/1909.3	
1.4MHz	QPSK	1	0	23.38	23.21	23.29	23.0±1.0
		1	3	23.44	23.25	23.28	
		1	5	23.41	23.10	23.19	
		3	0	22.38	22.27	22.28	22.0±1.0
		3	2	22.34	22.26	22.30	
		3	3	22.39	22.30	22.31	
		6	0	22.39	22.19	22.32	22.0±1.0
	16QAM	1	0	22.14	22.15	22.28	22.0±1.0
		1	3	22.31	22.25	22.29	
		1	5	22.13	21.94	22.08	
		3	0	21.26	21.22	21.13	21.0±1.0
		3	2	21.25	21.13	21.26	
		3	3	21.29	21.11	21.12	
		6	0	21.21	21.12	21.19	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18615/1851.5	18900/1880.0	19185/1908.5	
3MHz	QPSK	1	0	23.38	23.23	23.31	23.0±1.0
		1	7	23.41	23.29	23.28	
		1	14	23.44	23.24	23.28	
		8	0	22.40	22.32	22.28	22.0±1.0
		8	4	22.46	22.26	22.30	
		8	7	22.35	22.19	22.32	
		15	0	22.37	22.16	22.25	22.0±1.0
	16QAM	1	0	22.35	22.25	22.19	22.0±1.0
		1	7	22.42	22.22	22.25	
		1	14	22.41	22.21	22.28	
		8	0	21.41	21.24	21.31	21.0±1.0
		8	4	21.39	21.28	21.24	
		8	7	21.37	21.23	21.27	
		15	0	21.35	21.21	21.24	21.0±1.0



LTE FDD Band 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18625/1852.5	18900/1880.0	19175/1907.5	
5MHz	QPSK	1	0	23.38	23.32	23.37	23.0±1.0
		1	13	23.56	23.26	23.29	
		1	24	23.48	23.18	23.28	
		12	0	22.36	22.31	22.32	22.0±1.0
		12	6	22.41	22.27	22.31	
		12	13	22.36	22.17	22.27	
		25	0	22.44	22.29	22.24	22.0±1.0
	16QAM	1	0	22.27	22.42	22.38	22.0±1.0
		1	13	22.46	22.48	22.40	
		1	24	22.39	22.36	22.35	
		12	0	21.40	21.32	21.37	21.0±1.0
		12	6	21.36	21.39	21.35	
		12	13	21.33	21.37	21.33	
		25	0	21.37	21.27	21.37	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18650/1855.0	18900/1880.0	19150/1905.0	
10MHz	QPSK	1	0	23.44	23.44	23.39	23.0±1.0
		1	25	23.65	23.58	23.48	
		1	49	23.53	23.59	23.46	
		25	0	22.57	22.47	22.48	22.0±1.0
		25	13	22.58	22.44	22.43	
		25	25	22.49	22.40	22.41	
		50	0	22.54	22.42	22.38	22.0±1.0
	16QAM	1	0	22.41	22.34	22.35	22.0±1.0
		1	25	22.63	22.31	22.48	
		1	49	22.43	22.36	22.45	
		25	0	21.46	21.47	21.37	21.0±1.0
		25	13	21.50	21.46	21.36	
		25	25	21.41	21.39	21.31	
		50	0	21.48	21.42	21.32	21.0±1.0



LTE FDD Band 2				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18675/1857.5	18900/1880.0	19125/1902.5	
15MHz	QPSK	1	0	23.34	23.29	23.36	23.0±1.0
		1	38	23.52	23.43	23.38	
		1	74	23.28	23.23	23.35	
		36	0	22.54	22.43	22.40	22.0±1.0
		36	18	22.55	22.44	22.38	
		36	39	22.57	22.46	22.36	
		75	0	22.55	22.46	22.38	22.0±1.0
	16QAM	1	0	22.33	22.41	22.32	22.0±1.0
		1	38	22.50	22.49	22.33	
		1	74	22.23	22.42	22.42	
		36	0	21.54	21.43	21.42	21.0±1.0
		36	18	21.52	21.44	21.41	
		36	39	21.50	21.44	21.42	
		75	0	21.47	21.42	21.33	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				18700/1860.0	18900/1880.0	19100/1900.0	
20MHz	QPSK	1	0	23.50	23.33	23.45	23.0±1.0
		1	50	23.68	23.65	23.58	
		1	99	23.32	23.44	23.42	
		50	0	22.48	22.54	22.46	22.0±1.0
		50	25	22.45	22.56	22.40	
		50	50	22.40	22.52	22.34	
		100	0	22.36	22.51	22.36	22.0±1.0
	16QAM	1	0	22.38	22.25	22.33	22.0±1.0
		1	50	22.55	22.64	22.46	
		1	99	22.15	22.27	22.31	
		50	0	21.44	21.48	21.46	21.0±1.0
		50	25	21.48	21.39	21.44	
		50	50	21.33	21.36	21.33	
		100	0	21.37	21.35	21.36	21.0±1.0



2. LTE Band 4 Conducted Power Test Verdict:

LTE FDD Band 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19957/1710.7	20175/1732.5	20393/1754.3	
1.4MHz	QPSK	1	0	23.99	23.93	23.86	23.5±1.0
		1	3	24.14	24.07	24.07	
		1	5	23.92	23.98	23.86	
		3	0	23.05	22.96	22.91	22.5±1.0
		3	2	23.04	23.00	22.89	
		3	3	23.00	22.99	22.87	
		6	0	23.01	22.95	22.82	22.5±1.0
	16QAM	1	0	22.90	22.86	22.69	22.5±1.0
		1	3	23.10	22.86	22.91	
		1	5	22.88	22.84	22.69	
		3	0	21.93	21.85	21.90	21.5±1.0
		3	2	21.95	21.89	21.82	
		3	3	21.88	21.85	21.76	
		6	0	21.91	21.88	21.81	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19965/1711.5	20175/1732.5	20385/1753.5	
3MHz	QPSK	1	0	24.01	24.02	23.91	23.5±1.0
		1	7	24.04	24.07	23.92	
		1	14	23.98	24.07	23.90	
		8	0	23.01	22.97	22.92	22.5±1.0
		8	4	23.02	22.95	22.90	
		8	7	22.99	22.99	22.89	
		15	0	22.93	22.99	22.83	22.5±1.0
	16QAM	1	0	22.96	22.82	22.86	22.5±1.0
		1	7	22.98	22.86	22.83	
		1	14	22.89	22.81	22.83	
		8	0	21.99	21.89	21.87	21.5±1.0
		8	4	22.02	21.89	21.86	
		8	7	21.92	21.99	21.89	
		15	0	21.94	21.82	21.78	21.5±1.0



LTE FDD Band 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				19975/1712.5	20175/1732.5	20375/1752.5	
5MHz	QPSK	1	0	24.01	23.81	23.90	23.5±1.0
		1	13	24.09	24.06	23.97	
		1	24	23.89	23.96	23.91	
		12	0	22.94	22.89	22.86	22.5±1.0
		12	6	22.93	22.91	22.89	
		12	13	22.85	23.02	22.77	
		25	0	22.96	23.00	22.83	22.5±1.0
	16QAM	1	0	22.93	22.86	22.75	22.5±1.0
		1	13	22.96	23.06	22.86	
		1	24	22.74	23.00	22.79	
		12	0	21.97	21.95	21.81	21.5±1.0
		12	6	21.95	21.94	21.81	
		12	13	21.82	22.01	21.79	
		25	0	21.92	21.92	21.83	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20000/1715.0	20175/1732.5	20350/1750.0	
10MHz	QPSK	1	0	23.96	23.88	23.97	23.5±1.0
		1	25	23.98	24.19	23.93	
		1	49	23.82	24.10	23.86	
		25	0	22.97	22.96	22.89	22.5±1.0
		25	13	23.00	22.94	22.92	
		25	25	22.81	23.16	22.77	
		50	0	22.84	23.04	22.80	22.5±1.0
	16QAM	1	0	23.01	22.67	22.93	22.5±1.0
		1	25	23.07	22.84	23.04	
		1	49	22.76	22.90	22.87	
		25	0	21.90	21.96	21.85	21.5±1.0
		25	13	21.88	21.94	21.80	
		25	25	21.73	22.15	21.72	
		50	0	21.84	21.98	21.82	21.5±1.0



LTE FDD Band 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20025/1717.5	20175/1732.5	20325/1747.5	
15MHz	QPSK	1	0	23.84	23.76	24.02	23.5±1.0
		1	38	23.91	24.01	23.91	
		1	74	23.69	24.00	23.85	
		36	0	22.88	23.11	22.92	22.5±1.0
		36	18	22.90	23.07	22.93	
		36	39	22.90	23.07	22.95	
		75	0	22.89	23.05	22.94	22.5±1.0
	16QAM	1	0	22.87	22.76	22.99	22.5±1.0
		1	38	22.92	23.08	22.94	
		1	74	22.65	23.13	22.78	
		36	0	21.98	22.14	21.99	21.5±1.0
		36	18	22.02	22.20	22.01	
		36	39	22.00	22.15	22.03	
		75	0	21.82	22.05	21.85	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20050/1720.0	20175/1732.5	20300/1745.0	
20MHz	QPSK	1	0	23.98	23.81	23.93	23.5±1.0
		1	50	23.94	24.11	24.14	
		1	99	23.82	23.91	23.76	
		50	0	23.07	22.93	22.89	22.5±1.0
		50	25	23.08	22.94	22.89	
		50	50	22.81	23.05	22.92	
		100	0	22.91	22.93	22.86	22.5±1.0
	16QAM	1	0	22.85	22.80	22.97	22.5±1.0
		1	50	22.93	23.19	22.99	
		1	99	22.77	23.01	22.88	
		50	0	22.04	21.92	21.86	21.5±1.0
		50	25	22.06	21.92	21.84	
		50	50	21.87	22.06	21.86	
		100	0	21.85	21.98	21.85	21.5±1.0



3. LTE Band 5 Conducted Power Test Verdict:

LTE FDD Band 5				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20407/824.7	20525/836.5	20643/848.3	
1.4MHz	QPSK	1	0	23.55	23.43	23.42	23.0±1.0
		1	3	23.66	23.55	23.58	
		1	5	23.59	23.31	23.39	
		3	0	22.60	22.39	22.53	22.0±1.0
		3	2	22.59	22.47	22.52	
		3	3	22.64	22.44	22.52	
		6	0	22.58	22.48	22.53	22.0±1.0
	16QAM	1	0	22.30	22.37	22.39	22.0±1.0
		1	3	22.47	22.39	22.45	
		1	5	22.36	22.31	22.35	
		3	0	22.45	22.28	22.30	21.0±1.0
		3	2	22.39	22.30	22.35	
		3	3	22.46	22.32	22.29	
		6	0	21.41	21.31	21.35	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20415/825.5	20525/836.5	20635/847.5	
3MHz	QPSK	1	0	23.55	23.40	23.48	23.0±1.0
		1	7	23.61	23.43	23.52	
		1	14	23.50	23.34	23.51	
		8	0	22.51	22.37	22.53	22.0±1.0
		8	4	22.54	22.44	22.54	
		8	7	22.58	22.40	22.51	
		15	0	22.53	22.36	22.46	22.0±1.0
	16QAM	1	0	22.58	22.42	22.40	22.0±1.0
		1	7	22.61	22.40	22.45	
		1	14	22.50	22.33	22.50	
		8	0	21.56	21.50	21.37	21.0±1.0
		8	4	21.54	21.51	21.40	
		8	7	21.53	21.49	21.38	
		15	0	21.50	21.43	21.34	21.0±1.0



LTE FDD Band 5				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20425/826.5	20525/836.5	20625/846.5	
5MHz	QPSK	1	0	23.53	23.47	23.42	23.0±1.0
		1	13	23.60	23.37	23.50	
		1	24	23.45	23.25	23.45	
		12	0	22.44	22.32	22.42	22.0±1.0
		12	6	22.43	22.27	22.37	
		12	13	22.45	22.28	22.35	
		25	0	22.48	22.32	22.45	22.0±1.0
	16QAM	1	0	22.36	22.37	22.36	22.0±1.0
		1	13	22.47	22.45	22.41	
		1	24	22.31	22.34	22.38	
		12	0	21.43	21.40	21.45	21.0±1.0
		12	6	21.40	21.38	21.41	
		12	13	21.41	21.43	21.33	
		25	0	21.34	21.26	21.40	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20450/829.0	20525/836.5	20600/844.0	
10MHz	QPSK	1	0	23.50	23.43	23.32	23.0±1.0
		1	25	23.55	23.54	23.52	
		1	49	23.36	23.37	23.49	
		25	0	22.50	22.38	22.43	22.0±1.0
		25	13	22.48	22.39	22.42	
		25	25	22.49	22.44	22.39	
		50	0	22.48	22.34	22.37	22.0±1.0
	16QAM	1	0	22.53	22.39	22.33	22.0±1.0
		1	25	22.56	22.52	22.41	
		1	49	22.38	22.42	22.48	
		25	0	21.47	21.37	21.42	21.0±1.0
		25	13	21.49	21.46	21.41	
		25	25	21.46	21.39	21.37	
		50	0	21.40	21.43	21.38	21.0±1.0



4. LTE Band 7 Conducted Power Test Verdict:

LTE FDD Band 7				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20775/2502.5	21100/2535.0	21425/2567.5	
5MHz	QPSK	1	0	23.24	23.19	23.27	23.0±1.0
		1	13	23.33	23.30	23.31	
		1	24	23.22	23.16	23.20	
		12	0	22.22	22.19	22.17	22.0±1.0
		12	6	22.27	22.22	22.18	
		12	13	22.28	22.26	22.36	
		25	0	22.29	22.16	22.23	22.0±1.0
	16QAM	1	0	22.15	22.19	22.21	22.0±1.0
		1	13	22.25	22.26	22.29	
		1	24	22.11	22.22	22.20	
		12	0	21.29	21.26	21.27	21.0±1.0
		12	6	21.26	21.29	21.21	
		12	13	21.26	21.23	21.38	
		25	0	21.31	21.18	21.27	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20800/2505.0	21100/2535.0	21400/2565.0	
10MHz	QPSK	1	0	23.27	23.23	23.29	23.0±1.0
		1	25	23.43	23.35	23.28	
		1	49	23.24	23.24	23.31	
		25	0	22.43	22.33	22.32	22.0±1.0
		25	13	22.34	22.29	22.30	
		25	25	22.25	22.34	22.43	
		50	0	22.32	22.23	22.31	22.0±1.0
	16QAM	1	0	22.24	22.34	22.32	22.0±1.0
		1	25	22.39	22.29	22.23	
		1	49	22.18	22.28	22.28	
		25	0	21.38	21.32	21.32	21.0±1.0
		25	13	21.37	21.29	21.39	
		25	25	21.29	21.34	21.42	
		50	0	21.30	21.25	21.36	21.0±1.0



LTE FDD Band 7				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20825/2507.5	21100/2535.0	21375/2562.5	
15MHz	QPSK	1	0	23.20	23.26	23.24	23.0±1.0
		1	38	23.32	23.29	23.32	
		1	74	23.13	23.14	23.21	
		36	0	22.31	22.27	22.35	22.0±1.0
		36	18	22.34	22.25	22.34	
		36	39	22.36	22.28	22.35	
		75	0	22.30	22.23	22.31	22.0±1.0
	16QAM	1	0	22.31	22.25	22.30	22.0±1.0
		1	38	22.28	22.27	22.30	
		1	74	22.25	22.19	22.21	
		36	0	21.35	21.27	21.36	21.0±1.0
		36	18	21.37	21.31	21.34	
		36	39	21.34	21.30	21.37	
		75	0	21.27	21.21	21.35	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				20850/2510.0	21100/2535.0	21350/2560.0	
20MHz	QPSK	1	0	23.33	23.30	23.35	23.0±1.0
		1	50	23.43	23.31	23.46	
		1	99	23.31	23.27	23.28	
		50	0	22.43	22.30	22.41	22.0±1.0
		50	25	22.44	22.24	22.43	
		50	50	22.26	22.37	22.33	
		100	0	22.27	22.22	22.32	22.0±1.0
	16QAM	1	0	22.27	22.32	22.36	22.0±1.0
		1	50	22.32	22.48	22.43	
		1	99	22.19	22.24	22.31	
		50	0	21.40	21.31	21.45	21.0±1.0
		50	25	21.45	21.39	21.44	
		50	50	21.32	21.34	21.40	
		100	0	21.35	21.25	21.33	21.0±1.0



5. LTE Band 12 Conducted Power Test Verdict:

LTE FDD Band 12				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23017/699.7	23095/707.5	23173/715.3	
1.4MHz	QPSK	1	0	22.87	23.01	22.93	22.5±1.0
		1	3	22.92	23.14	22.87	
		1	5	22.79	23.00	22.92	
		3	0	21.89	22.12	21.84	21.5±1.0
		3	2	21.96	22.09	21.83	
		3	3	21.89	22.15	21.90	
		6	0	21.82	22.01	21.85	21.5±1.0
	16QAM	1	0	21.87	21.91	21.84	21.5±1.0
		1	3	21.94	21.92	21.95	
		1	5	21.82	21.83	21.90	
		3	0	20.86	20.90	20.92	20.5±1.0
		3	2	20.91	20.94	20.91	
		3	3	20.89	20.92	20.88	
		6	0	20.82	20.85	20.83	20.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23025/700.5	23095/707.5	23165/714.5	
3MHz	QPSK	1	0	22.81	22.99	22.94	22.5±1.0
		1	7	22.80	23.09	22.78	
		1	14	22.87	23.06	22.77	
		8	0	21.80	22.01	21.84	21.5±1.0
		8	4	21.81	22.00	21.82	
		8	7	21.83	21.98	21.76	
		15	0	21.82	21.91	21.79	21.5±1.0
	16QAM	1	0	21.83	21.90	21.82	21.5±1.0
		1	7	21.89	21.84	21.76	
		1	14	21.88	21.91	21.79	
		8	0	20.84	20.98	20.84	20.5±1.0
		8	4	20.80	20.96	20.79	
		8	7	20.87	21.01	20.72	
		15	0	20.84	20.95	20.81	20.5±1.0



LTE FDD Band 12				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23035/701.5	23095/707.5	23155/713.5	
5MHz	QPSK	1	0	22.81	22.87	22.91	22.5±1.0
		1	13	22.97	23.08	22.86	
		1	24	22.92	22.84	22.71	
		12	0	21.86	21.92	21.90	21.5±1.0
		12	6	21.86	21.91	21.93	
		12	13	21.96	21.85	21.86	
		25	0	21.96	21.96	21.91	21.5±1.0
	16QAM	1	0	21.84	21.95	21.81	21.5±1.0
		1	13	21.87	22.04	21.83	
		1	24	21.90	21.97	21.62	
		12	0	20.91	20.96	20.99	20.5±1.0
		12	6	20.88	20.98	20.95	
		12	13	20.94	20.94	20.90	
		25	0	20.86	20.90	20.91	20.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23060/704.0	23095/707.5	23130/711.0	
10MHz	QPSK	1	0	22.88	22.95	23.00	22.5±1.0
		1	25	22.96	23.07	23.06	
		1	49	23.00	22.93	22.71	
		25	0	21.95	21.91	22.13	21.5±1.0
		25	13	21.84	21.83	22.23	
		25	25	22.17	21.80	21.92	
		50	0	22.00	21.87	22.09	21.5±1.0
	16QAM	1	0	21.92	21.91	21.96	21.5±1.0
		1	25	22.05	21.97	21.81	
		1	49	22.03	21.76	21.50	
		25	0	21.02	20.96	21.21	20.5±1.0
		25	13	21.07	20.94	21.23	
		25	25	21.09	20.82	21.06	
		50	0	21.02	20.83	21.03	20.5±1.0



6. LTE Band 17 Conducted Power Test Verdict:

LTE FDD Band 17				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23755/706.5	23790/710.0	23825/713.5	
5MHz	QPSK	1	0	22.85	22.86	22.77	22.5±1.0
		1	13	22.89	22.91	22.82	
		1	24	22.82	22.75	22.63	
		12	0	21.77	21.93	21.88	21.5±1.0
		12	6	21.77	21.96	21.86	
		12	13	21.78	21.73	21.83	
		25	0	21.78	21.91	21.90	21.5±1.0
	16QAM	1	0	21.70	21.77	21.80	21.5±1.0
		1	13	21.78	21.87	21.85	
		1	24	21.75	21.64	21.69	
		12	0	20.76	20.90	20.88	20.5±1.0
		12	6	20.78	20.96	20.95	
		12	13	20.90	20.71	20.88	
		25	0	20.83	20.86	20.86	20.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				23780/709.0	23790/710.0	23800/711.0	
10MHz	QPSK	1	0	22.80	22.85	22.84	22.5±1.0
		1	25	22.96	22.88	22.94	
		1	49	22.72	22.79	22.66	
		25	0	21.82	21.98	22.06	21.5±1.0
		25	13	21.82	21.98	22.07	
		25	25	21.76	21.82	21.86	
		50	0	21.80	21.87	22.00	21.5±1.0
	16QAM	1	0	21.89	21.84	21.81	21.5±1.0
		1	25	21.96	21.88	21.85	
		1	49	21.77	21.70	21.68	
		25	0	20.94	20.96	21.11	20.5±1.0
		25	13	20.97	20.93	21.06	
		25	25	20.85	20.79	20.90	
		50	0	20.93	20.83	20.95	20.5±1.0



7. LTE Band 25 Conducted Power Test Verdict:

LTE FDD Band 25				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				26047/1850.7	26365/1882.5	26683/1914.3	
1.4MHz	QPSK	1	0	24.54	24.45	24.69	24.0±1.0
		1	3	24.73	24.57	24.63	
		1	5	24.54	24.41	24.62	
		3	0	23.50	23.47	23.64	23.0±1.0
		3	2	23.52	23.46	23.68	
		3	3	23.55	23.48	23.65	
		6	0	23.59	23.51	23.42	23.0±1.0
	16QAM	1	0	23.43	23.34	23.51	23.0±1.0
		1	3	23.50	23.49	23.67	
		1	5	23.44	23.26	23.49	
		3	0	22.32	22.22	22.47	22.0±1.0
		3	2	22.31	22.27	22.51	
		3	3	22.34	22.21	22.50	
		6	0	22.39	22.44	22.46	22.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				26055/1851.5	26365/1882.5	26675/1913.5	
3MHz	QPSK	1	0	24.48	24.44	24.60	24.0±1.0
		1	7	24.54	24.52	24.64	
		1	14	24.53	24.51	24.69	
		8	0	23.57	23.45	23.71	23.0±1.0
		8	4	23.54	23.44	23.68	
		8	7	23.57	23.45	23.70	
		15	0	23.50	23.42	23.64	23.0±1.0
	16QAM	1	0	23.53	23.38	23.59	23.0±1.0
		1	7	23.59	23.46	23.64	
		1	14	23.50	23.28	23.62	
		8	0	22.51	22.39	22.66	22.0±1.0
		8	4	22.50	22.43	22.67	
		8	7	22.49	22.40	22.63	
		15	0	22.49	22.31	22.57	22.0±1.0



LTE FDD Band 25				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				26065/1852.5	26365/1882.5	26665/1912.5	
5MHz	QPSK	1	0	24.48	24.33	24.50	24.0±1.0
		1	13	24.61	24.46	24.70	
		1	24	24.54	24.41	24.72	
		12	0	23.52	23.43	23.62	23.0±1.0
		12	6	23.53	23.42	23.61	
		12	13	23.50	23.34	23.55	
		25	0	23.52	23.39	23.64	23.0±1.0
	16QAM	1	0	23.34	23.34	23.41	23.0±1.0
		1	13	23.55	23.48	23.64	
		1	24	23.45	23.37	23.55	
		12	0	22.47	22.44	22.59	22.0±1.0
		12	6	22.45	22.44	22.56	
		12	13	22.44	22.43	22.52	
		25	0	22.49	22.34	22.61	22.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				26090/1855.0	26365/1882.5	26640/1910.0	
10MHz	QPSK	1	0	24.48	24.35	24.29	24.0±1.0
		1	25	24.68	24.54	24.62	
		1	49	24.57	24.46	24.68	
		25	0	23.66	23.46	23.44	23.0±1.0
		25	13	23.69	23.47	23.54	
		25	25	23.72	23.44	23.62	
		50	0	23.57	23.41	23.54	23.0±1.0
	16QAM	1	0	23.46	23.14	23.32	23.0±1.0
		1	25	23.62	23.37	23.49	
		1	49	23.62	23.29	23.61	
		25	0	22.60	22.40	22.48	22.0±1.0
		25	13	22.59	22.49	22.46	
		25	25	22.56	22.41	22.49	
		50	0	22.60	22.40	22.47	22.0±1.0



LTE FDD Band 25				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				26115/1857.5	26365/1882.5	26615/1907.5	
15MHz	QPSK	1	0	24.44	24.39	24.44	24.0±1.0
		1	38	24.61	24.44	24.47	
		1	74	24.40	24.30	24.56	
		36	0	23.68	23.47	23.50	23.0±1.0
		36	18	23.64	23.50	23.56	
		36	39	23.63	23.52	23.48	
		75	0	23.68	23.52	23.60	23.0±1.0
	16QAM	1	0	23.44	23.31	23.18	23.0±1.0
		1	38	23.65	23.54	23.42	
		1	74	23.34	23.40	23.57	
		36	0	22.66	22.51	22.54	22.0±1.0
		36	18	22.68	22.52	22.58	
		36	39	22.63	22.46	22.57	
		75	0	22.52	22.40	22.46	22.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				26140/1860.0	26365/1882.5	26590/1905.0	
20MHz	QPSK	1	0	24.34	24.59	24.42	24.0±1.0
		1	50	24.66	24.48	24.50	
		1	99	24.61	24.52	24.52	
		50	0	23.70	23.46	23.37	23.0±1.0
		50	25	23.66	23.46	23.40	
		50	50	23.64	23.42	23.40	
		100	0	23.66	23.45	23.35	23.0±1.0
	16QAM	1	0	23.19	23.17	23.00	23.0±1.0
		1	50	23.65	23.64	23.38	
		1	99	23.01	23.33	23.37	
		50	0	22.61	22.41	22.29	22.0±1.0
		50	25	22.62	22.44	22.30	
		50	50	22.60	22.37	22.36	
		100	0	22.60	22.34	22.30	22.0±1.0



8. LTE Band 26 Conducted Power Test Verdict:

LTE FDD Band 26				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				26697/814.7	26915/831.5	27033/848.3	
1.4MHz	QPSK	1	0	23.87	23.82	23.90	23.5±1.0
		1	3	24.01	24.04	24.06	
		1	5	23.85	23.83	23.85	
		3	0	22.93	22.89	23.05	22.5±1.0
		3	2	22.90	22.94	23.04	
		3	3	22.91	22.95	23.02	
		6	0	22.95	22.92	22.96	22.5±1.0
	16QAM	1	0	22.71	23.05	22.84	22.5±1.0
		1	3	22.95	22.90	23.01	
		1	5	22.89	22.79	22.86	
		3	0	21.85	21.90	22.02	21.5±1.0
		3	2	21.94	21.81	21.91	
		3	3	21.84	21.97	22.00	
		6	0	21.88	21.83	21.95	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				26705/815.5	26865/831.5	27025/847.5	
3MHz	QPSK	1	0	23.84	23.93	23.96	23.5±1.0
		1	7	23.83	23.96	24.05	
		1	14	23.86	23.79	24.11	
		8	0	22.81	22.87	23.08	22.5±1.0
		8	4	22.84	22.96	23.03	
		8	7	22.83	22.91	23.08	
		15	0	22.82	22.87	23.00	22.5±1.0
	16QAM	1	0	22.81	22.88	22.93	22.5±1.0
		1	7	22.80	23.00	23.05	
		1	14	22.81	22.83	22.84	
		8	0	21.84	22.08	22.02	21.5±1.0
		8	4	21.92	22.07	22.01	
		8	7	21.85	22.05	22.03	
		15	0	21.86	21.93	21.92	21.5±1.0



LTE FDD Band 26				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				26715/816.5	26865/831.5	27015/846.5	
5MHz	QPSK	1	0	23.83	23.98	23.91	23.5±1.0
		1	13	23.90	23.99	24.05	
		1	24	23.79	23.90	24.04	
		12	0	22.74	22.93	22.97	22.5±1.0
		12	6	22.73	22.96	23.01	
		12	13	22.82	22.90	22.93	
		25	0	22.82	22.91	22.99	22.5±1.0
	16QAM	1	0	22.77	23.00	22.72	22.5±1.0
		1	13	22.83	22.87	22.92	
		1	24	22.72	22.86	22.92	
		12	0	21.85	22.00	21.98	21.5±1.0
		12	6	21.77	22.01	22.01	
		12	13	21.86	21.96	21.94	
		25	0	21.82	21.93	22.01	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				26750/820.0	26865/831.5	26990/844.0	
10MHz	QPSK	1	0	23.93	23.85	23.91	23.5±1.0
		1	25	23.89	23.93	24.05	
		1	49	23.80	23.80	24.06	
		25	0	22.96	22.88	23.02	22.5±1.0
		25	13	22.99	22.89	23.02	
		25	25	23.00	22.85	22.90	
		50	0	22.94	22.93	22.96	22.5±1.0
	16QAM	1	0	23.06	22.86	22.63	22.5±1.0
		1	25	23.02	22.99	22.76	
		1	49	22.94	22.83	22.85	
		25	0	21.96	21.95	22.03	21.5±1.0
		25	13	21.97	21.99	21.99	
		25	25	21.98	21.90	21.90	
		50	0	21.92	21.86	21.90	21.5±1.0



LTE FDD Band 26				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				26775/822.5	26865/831.5	26965/841.5	
15MHz	QPSK	1	0	24.06	24.12	23.97	23.5±1.0
		1	38	24.10	23.98	23.88	
		1	74	23.97	23.71	23.98	
		36	0	23.02	23.00	22.90	22.5±1.0
		36	18	23.04	23.01	22.94	
		36	39	22.94	22.98	22.94	
		75	0	22.97	23.02	22.89	22.5±1.0
	16QAM	1	0	22.85	23.11	22.83	22.5±1.0
		1	38	22.91	22.93	22.97	
		1	74	22.76	22.74	22.74	
		36	0	21.97	21.99	21.90	21.5±1.0
		36	18	22.01	22.02	21.93	
		36	39	21.93	21.99	21.94	
		75	0	21.95	21.91	21.90	21.5±1.0



9. LTE Band 38 Conducted Power Test Verdict:

LTE TDD Band 38				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				37775/2572.5	38000/2595.0	38225/2617.5	
5MHz	QPSK	1	0	23.82	23.89	23.85	23.5±1.0
		1	13	23.96	23.98	23.95	
		1	24	23.86	23.89	23.79	
		12	0	22.83	22.87	22.80	22.5±1.0
		12	6	22.92	22.89	22.77	
		12	13	22.89	22.92	22.86	
		25	0	22.83	22.87	22.83	22.5±1.0
	16QAM	1	0	22.95	22.93	22.82	22.5±1.0
		1	13	23.09	23.01	22.93	
		1	24	22.98	22.88	22.78	
		12	0	21.83	22.00	21.86	21.5±1.0
		12	6	21.92	21.92	21.85	
		12	13	21.81	21.95	21.88	
		25	0	21.88	21.92	21.80	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				37800/2575.0	38000/2595.0	38200/2615.0	
10MHz	QPSK	1	0	23.92	23.95	23.98	23.5±1.0
		1	25	23.95	24.02	24.01	
		1	49	23.94	23.83	23.89	
		25	0	22.88	22.84	22.84	22.5±1.0
		25	13	22.87	22.85	22.82	
		25	25	22.81	22.87	22.84	
		50	0	22.86	22.92	22.86	22.5±1.0
	16QAM	1	0	22.91	22.89	22.91	22.5±1.0
		1	25	23.14	23.06	22.99	
		1	49	22.95	22.84	22.87	
		25	0	22.04	21.96	21.93	21.5±1.0
		25	13	22.02	21.99	21.98	
		25	25	21.99	21.97	21.99	
		50	0	21.94	21.91	21.95	21.5±1.0



LTE TDD Band 38				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				37825/2577.5	38000/2595.0	38175/2612.5	
15MHz	QPSK	1	0	23.86	23.97	23.99	23.5±1.0
		1	38	23.92	24.03	24.02	
		1	74	23.79	23.97	23.77	
		36	0	22.96	23.01	23.07	22.5±1.0
		36	18	22.97	23.00	23.06	
		36	39	22.94	22.99	23.05	
		75	0	22.95	23.00	23.07	22.5±1.0
	16QAM	1	0	22.83	22.81	22.89	22.5±1.0
		1	38	22.97	22.77	22.88	
		1	74	22.87	22.66	22.67	
		36	0	21.77	21.87	21.95	21.5±1.0
		36	18	21.89	21.88	21.93	
		36	39	21.83	21.80	21.94	
		75	0	21.82	21.86	21.86	21.5±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				37850/2580.0	38000/2595.0	38150/2610.0	
20MHz	QPSK	1	0	23.97	23.86	24.04	23.5±1.0
		1	50	24.03	23.97	24.08	
		1	99	23.86	23.85	23.91	
		50	0	22.95	22.96	22.93	22.5±1.0
		50	25	22.93	22.88	22.90	
		50	50	22.93	23.00	22.99	
		100	0	22.95	22.96	22.93	22.5±1.0
	16QAM	1	0	22.93	22.95	22.91	22.5±1.0
		1	50	23.83	22.98	23.01	
		1	99	22.94	22.85	22.82	
		50	0	21.96	21.95	21.90	21.5±1.0
		50	25	21.98	21.98	21.87	
		50	50	21.95	22.01	21.95	
		100	0	21.96	21.95	21.89	21.5±1.0



10. LTE Band 41 Conducted Power Test Verdict:

LTE TDD Band 41(2555-2655 MHz)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				40265/2557.5	40740/2605.0	41215/2652.5	
5MHz	QPSK	1	0	23.27	23.29	23.26	23.0±1.0
		1	13	23.31	23.41	23.38	
		1	24	23.24	23.32	23.24	
		12	0	22.33	22.39	22.34	22.0±1.0
		12	6	22.26	22.40	22.28	
		12	13	22.27	22.44	22.32	
		25	0	22.29	22.35	22.26	22.0±1.0
	16QAM	1	0	22.31	22.31	22.29	22.0±1.0
		1	13	22.37	22.40	22.38	
		1	24	22.26	22.32	22.25	
		12	0	21.21	21.34	21.22	21.0±1.0
		12	6	21.28	21.31	21.21	
		12	13	21.16	21.40	21.28	
		25	0	21.24	21.34	21.25	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				40290/2560.0	40740/2605.0	41190/2650.0	
10MHz	QPSK	1	0	23.38	23.36	23.23	23.0±1.0
		1	25	23.50	23.60	23.39	
		1	49	23.36	23.41	23.15	
		25	0	22.39	22.46	22.34	22.0±1.0
		25	13	22.40	22.39	22.33	
		25	25	22.37	22.49	22.25	
		50	0	22.33	22.45	22.29	22.0±1.0
	16QAM	1	0	22.44	22.33	22.36	22.0±1.0
		1	25	22.47	22.21	22.34	
		1	49	22.36	22.30	22.26	
		25	0	21.26	21.36	21.36	21.0±1.0
		25	13	21.32	21.38	21.40	
		25	25	21.27	21.45	21.32	
		50	0	21.28	21.47	21.31	21.0±1.0



LTE TDD Band 41(2555-2655 MHz)				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				40315/2562.5	40740/2605.0	41165/2647.5	
15MHz	QPSK	1	0	23.33	23.42	23.32	23.0±1.0
		1	38	23.44	23.55	23.29	
		1	74	23.35	23.46	23.15	
		36	0	22.37	22.52	22.41	22.0±1.0
		36	18	22.39	22.54	22.39	
		36	39	22.35	22.53	22.42	
		75	0	22.31	22.53	22.35	22.0±1.0
	16QAM	1	0	22.42	22.38	22.52	22.0±1.0
		1	38	22.50	22.48	22.43	
		1	74	22.37	22.37	22.31	
		36	0	21.40	21.55	21.32	21.0±1.0
		36	18	21.44	21.52	21.40	
		36	39	21.39	21.50	21.34	
		75	0	21.42	21.51	21.32	21.0±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				40340/2565.0	40740/2605.0	41140/2645.0	
20MHz	QPSK	1	0	23.31	23.36	23.46	23.0±1.0
		1	50	23.33	23.52	23.50	
		1	99	23.40	23.26	23.29	
		50	0	22.36	22.37	22.41	22.0±1.0
		50	25	22.40	22.39	22.40	
		50	50	22.37	22.54	22.47	
		100	0	22.31	22.46	22.33	22.0±1.0
	16QAM	1	0	22.44	22.39	22.39	22.0±1.0
		1	50	22.51	22.47	22.42	
		1	99	22.46	22.28	22.29	
		50	0	21.49	21.50	21.36	21.0±1.0
		50	25	21.37	21.43	21.39	
		50	50	21.42	21.59	21.45	
		100	0	21.36	21.46	21.31	21.0±1.0



11. LTE Band 71 Conducted Power Test Verdict:

LTE FDD Band 71				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				133147/665.5	133297/680.5	133447/695.5	
5MHz	QPSK	1	0	23.21	23.35	23.31	23.0 ±1.0
		1	13	23.30	23.31	23.48	
		1	24	23.29	23.28	23.33	
		12	0	22.46	22.34	22.40	22.0 ±1.0
		12	6	22.39	22.42	22.41	
		12	13	22.35	22.35	22.38	
		25	0	22.41	22.32	22.37	22.0 ±1.0
	16QAM	1	0	22.28	22.25	22.30	22.0 ±1.0
		1	13	22.47	22.40	22.36	
		1	24	22.41	22.30	22.28	
		12	0	21.26	21.29	21.36	21.0 ±1.0
		12	6	21.32	21.34	21.41	
		12	13	21.40	21.30	21.34	
		25	0	23.21	23.35	23.31	21.0 ±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				133172/668.0	133297/680.5	133422/693.0	
10MHz	QPSK	1	0	23.38	23.42	23.30	23.0 ±1.0
		1	25	23.54	23.56	23.38	
		1	49	23.51	23.36	23.43	
		25	0	22.54	22.47	22.25	22.0 ±1.0
		25	13	22.56	22.46	22.26	
		25	25	22.54	22.34	22.50	
		50	0	22.57	22.40	22.38	22.0 ±1.0
	16QAM	1	0	22.40	22.37	22.31	22.0 ±1.0
		1	25	22.42	22.46	22.41	
		1	49	22.51	22.38	22.46	
		25	0	21.52	21.48	21.43	21.0 ±1.0
		25	13	21.53	21.52	21.41	
		25	25	21.55	21.33	21.42	
		50	0	21.60	21.39	21.35	21.0 ±1.0



LTE FDD Band 71				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				133197/670.5	133297/680.5	133397/690.5	
15MHz	QPSK	1	0	23.41	23.52	23.38	23.0 ±1.0
		1	38	23.48	23.49	23.46	
		1	74	23.43	23.42	23.53	
		36	0	22.53	22.49	22.46	22.0 ±1.0
		36	18	22.62	22.51	22.61	
		36	39	22.58	22.32	22.59	
		75	0	22.51	22.45	22.46	22.0 ±1.0
	16QAM	1	0	22.49	22.35	22.37	22.0 ±1.0
		1	38	22.65	22.32	22.45	
		1	74	22.56	22.27	22.51	
		36	0	21.41	21.48	21.45	21.0 ±1.0
		36	18	21.64	21.37	21.46	
		36	39	21.54	21.43	21.51	
		75	0	21.60	21.39	21.42	21.0 ±1.0
Bandwidth	Modulation	RB size	RB offset	Channel/Frequency			Tune up
				133222/673.0	133322/683.0	133372/688.0	
20MHz	QPSK	1	0	23.39	23.51	23.46	23.0 ±1.0
		1	50	23.52	23.49	23.54	
		1	99	23.33	23.28	23.32	
		50	0	22.44	22.42	22.58	22.0 ±1.0
		50	25	22.47	22.42	22.57	
		50	50	22.59	22.45	22.52	
		100	0	22.54	22.38	22.55	22.0 ±1.0
	16QAM	1	0	22.40	22.37	21.49	22.0 ±1.0
		1	50	22.53	22.61	22.51	
		1	99	22.17	22.22	22.33	
		50	0	21.49	21.40	21.62	21.0 ±1.0
		50	25	21.49	21.44	21.63	
		50	50	21.56	21.44	21.54	
		100	0	21.52	21.37	21.51	21.0 ±1.0



7.3 WIFI Conducted Power

Wi-Fi 2.4G Output power

2.4G WI-FI Channel/Freq.(MHz)	Output Power (dBm)		
	802.11b	802.11g	802.11n20
1/2412.0	10.49	6.42	6.53
6/2437.0	7.69	6.39	6.58
11/2462.0	10.60	8.75	8.84

2.4G WI-FI Channel/Freq.(MHz)	Output Power (dBm)	
	802.11n40	
3/2422.0	7.58	
6/2437.0	8.41	
9/2452.0	9.38	

WIFI 5G U-NII-1 Output power

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 a	802.11 n20
36/5180.0	12.60	11.26
44/5220.0	12.47	11.39
48/5240.0	12.31	11.30

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 n40	
38/5190.0	11.66	
46/5230.0	11.38	



WIFI 5G U-NII-3 Output power

Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 a	802.11 n20
149/5745.0	8.91	8.52
157/5785.0	8.94	8.84
165/5825.0	9.39	9.32

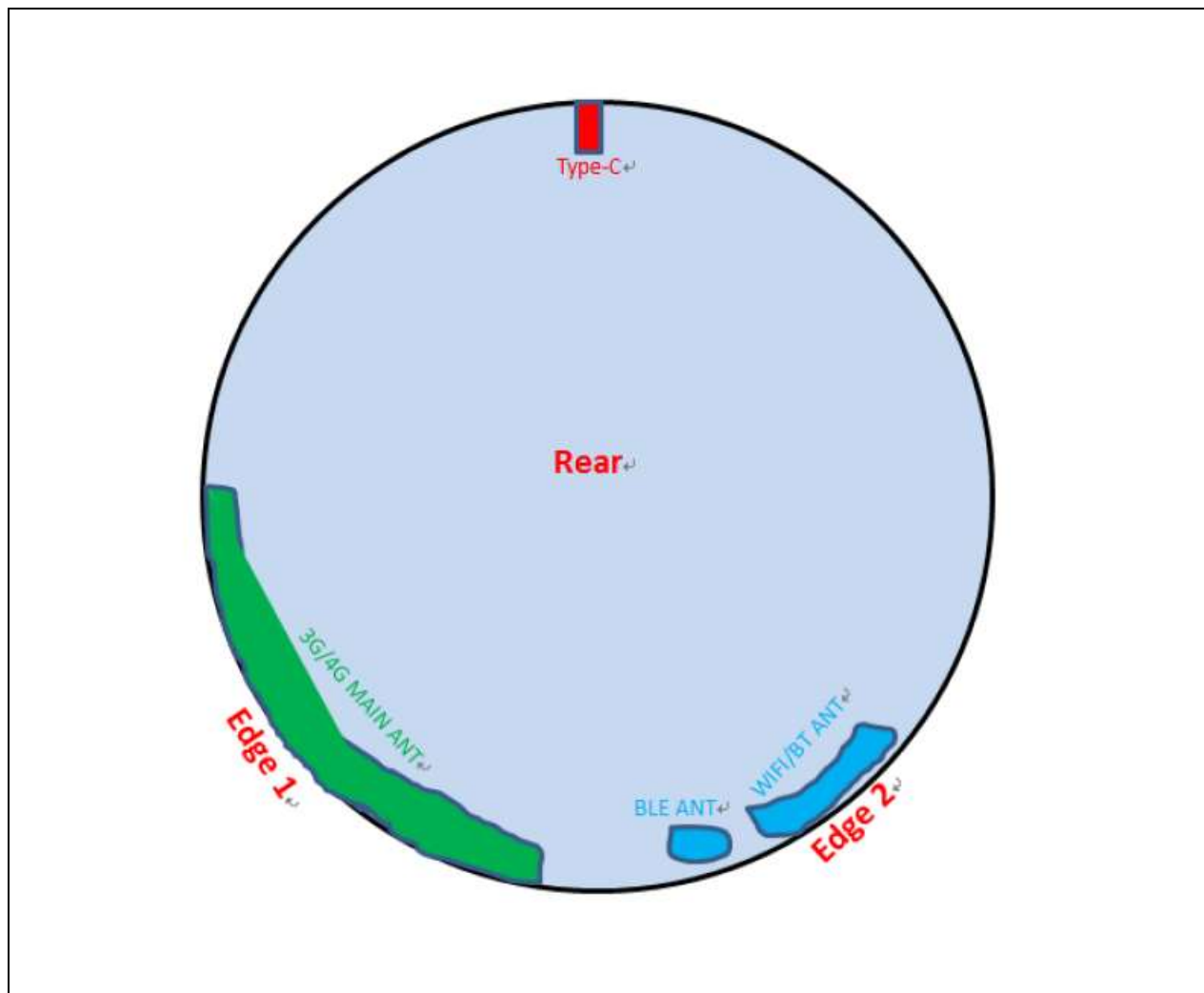
Channel/Freq.(MHz)	Output Power (dBm)	
	802.11 n40	
151/5755.0	9.26	
159/5795.0	9.68	

7.4 Bluetooth Output Power

Channel	Frequency (MHz)	Bluetooth Output Power(dBm)		
		GFSK	$\pi/4$ -DQPSK	8-DPSK
CH 0	2402	1.37	1.14	1.25
CH 39	2441	-3.72	-3.74	-3.66
CH 78	2480	-2.35	-2.68	-2.56

Channel	Frequency (MHz)	BLE Output Power(dBm)	
		1M(GFSK)	
CH 0	2402	1.44	
CH 19	2440	-3.80	
CH 39	2480	-2.20	

8. Antenna Location:



Antenna-to-User (Edge Side) distance (mm):

Antenna	Front	Back	Edge 1	Edge 2
3G/4G Main ANT	<25	<25	<25	>25
WLAN ANT	<25	<25	>25	<25

Note:

- Overall (Length x Width x High): 88 mm x 88 mm x 23.5 mm



The Body SAR measurement positions of each band are as below:

Antenna	Front	Back	Edge 1	Edge 2
3G/4G Body	Yes	Yes	Yes	No
WLAN Body	Yes	Yes	No	Yes

Note:

1. According to KDB 941225 D06 v02r01, when antenna-to-edge>2.5cm, SAR is not required.
2. The other Frequencies were measured at the worst position



9. Scaling Factor calculation

Operation Mode	Channel /Frequency	Output Power(dBm)	Tune up Power in tolerance (dBm)	Max. Tune up(dBm)	Scaling Factor
WCDMA850	4132/826.4	23.82	23.5 ± 1.0	24.50	1.169
	4183/836.6	23.65	23.0 ± 1.0	24.00	1.084
	4233/846.6	23.52	23.0 ± 1.0	24.00	1.117
WCDMA1700	1312/1712.4	23.94	23.5 ± 1.0	24.50	1.138
	1413/1732.6	23.86	23.5 ± 1.0	24.50	1.159
	1513/1752.6	24.10	23.5 ± 1.0	24.50	1.096
WCDMA1900	9262/1852.4	24.80	24.5 ± 1.0	25.50	1.175
	9400/1880.0	24.29	24.0 ± 1.0	25.00	1.178
	9538/1907.6	24.06	23.5 ± 1.0	24.50	1.107
LTE B2 20MHz 1RB#0	18700/1860.0	23.50	23.0 ± 1.0	24.00	1.122
	18900/1880.0	23.33	23.0 ± 1.0	24.00	1.167
	19100/1900.0	23.45	23.0 ± 1.0	24.00	1.135
LTE B2 20MHz 50%RB#0	18700/1860.0	22.48	22.0 ± 1.0	23.00	1.127
	18900/1880.0	22.54	22.0 ± 1.0	23.00	1.112
	19100/1900.0	22.46	22.0 ± 1.0	23.00	1.132
LTE B2 20MHz 100%RB#0	18700/1860.0	22.36	22.0 ± 1.0	23.00	1.159
	18900/1880.0	22.51	22.0 ± 1.0	23.00	1.119
	19100/1900.0	22.36	22.0 ± 1.0	23.00	1.159
LTE B4 20MHz 1RB#0	20050/1720.0	23.98	23.5 ± 1.0	24.50	1.127
	20175/1732.5	23.81	23.5 ± 1.0	24.50	1.172
	20300/1745.0	23.93	23.5 ± 1.0	24.50	1.140
LTE B4 20MHz 50%RB#0	20050/1720.0	23.07	22.5 ± 1.0	23.50	1.104
	20175/1732.5	22.93	22.5 ± 1.0	23.50	1.140
	20300/1745.0	22.89	22.5 ± 1.0	23.50	1.151
LTE B4 20MHz 100%RB#0	20050/1720.0	22.91	22.5 ± 1.0	23.50	1.146
	20175/1732.5	22.93	22.5 ± 1.0	23.50	1.140
	20300/1745.0	22.86	22.5 ± 1.0	23.50	1.159
LTE B5 10MHz 1RB#0	20450/829.0	23.50	23.0 ± 1.0	24.00	1.122
	20525/836.5	23.43	23.0 ± 1.0	24.00	1.140
	20600/844.0	23.32	23.0 ± 1.0	24.00	1.169
LTE B5 10MHz 50%RB#0	20450/829.0	22.50	22.0 ± 1.0	23.00	1.122
	20525/836.5	22.38	22.0 ± 1.0	23.00	1.153
	20600/844.0	22.43	22.0 ± 1.0	23.00	1.140



LTE B5 10MHz 100%RB#0	20450/829.0	22.48	22.0 ± 1.0	23.00	1.127
	20525/836.5	22.34	22.0 ± 1.0	23.00	1.164
	20600/844.0	22.37	22.0 ± 1.0	23.00	1.156
LTE B7 20MHz 1RB#0	20850/2510.0	23.33	23.0 ± 1.0	24.00	1.167
	21100/2535.0	23.30	23.0 ± 1.0	24.00	1.175
	21350/2560.0	23.35	23.0 ± 1.0	24.00	1.161
LTE B7 20MHz 50%RB#0	20850/2510.0	22.43	22.0 ± 1.0	23.00	1.140
	21100/2535.0	22.30	22.0 ± 1.0	23.00	1.175
	21350/2560.0	22.41	22.0 ± 1.0	23.00	1.146
LTE B7 20MHz 100%RB#0	20850/2510.0	22.27	22.0 ± 1.0	23.00	1.183
	21100/2535.0	22.22	22.0 ± 1.0	23.00	1.197
	21350/2560.0	22.32	22.0 ± 1.0	23.00	1.169
LTE B12 10MHz 1RB#0	23060/704.0	22.88	22.5 ± 1.0	23.50	1.153
	23095/707.5	22.95	22.5 ± 1.0	23.50	1.135
	23130/711.0	23.00	22.5 ± 1.0	23.50	1.122
LTE B12 10MHz 50%RB#0	23060/704.0	21.95	21.5 ± 1.0	22.50	1.135
	23095/707.5	21.91	21.5 ± 1.0	22.50	1.146
	23130/711.0	22.13	21.5 ± 1.0	22.50	1.089
LTE B17 10MHz 1RB#0	23780/709.0	22.80	22.5 ± 1.0	23.50	1.175
	23790/710.0	22.85	22.5 ± 1.0	23.50	1.161
	23800/711.0	22.84	22.5 ± 1.0	23.50	1.164
LTE B17 10MHz 50%RB#0	23780/709.0	21.82	21.5 ± 1.0	22.50	1.169
	23790/710.0	21.98	21.5 ± 1.0	22.50	1.127
	23800/711.0	22.06	21.5 ± 1.0	22.50	1.107
LTE B17 10MHz 100%RB#0	23780/709.0	21.80	21.5 ± 1.0	22.50	1.175
	23790/710.0	21.87	21.5 ± 1.0	22.50	1.156
	23800/711.0	22.00	21.5 ± 1.0	22.50	1.122
LTE B25 20MHz 1RB#0	26140/1860.0	24.34	24.0 ± 1.0	25.00	1.164
	26365/1882.5	24.59	24.0 ± 1.0	25.00	1.099
	26590/1905.0	24.42	24.0 ± 1.0	25.00	1.143
LTE B25 20MHz 50%RB#0	26140/1860.0	23.70	23.0 ± 1.0	24.00	1.072
	26365/1882.5	23.46	23.0 ± 1.0	24.00	1.132
	26590/1905.0	23.37	23.0 ± 1.0	24.00	1.156



LTE B25 20MHz 100%RB#0	26140/1860.0	23.66	23.0 ± 1.0	24.00	1.081
	26365/1882.5	23.45	23.0 ± 1.0	24.00	1.135
	26590/1905.0	23.35	23.0 ± 1.0	24.00	1.161
LTE B26 15MHz 1RB#0	26765/821.5	24.06	23.5 ± 1.0	24.50	1.107
	26865/831.5	24.12	23.5 ± 1.0	24.50	1.091
	26965/841.5	23.97	23.5 ± 1.0	24.50	1.130
LTE B26 15MHz 50%RB#0	26765/821.5	23.02	22.5 ± 1.0	23.50	1.117
	26865/831.5	23.00	22.5 ± 1.0	23.50	1.122
	26965/841.5	22.90	22.5 ± 1.0	23.50	1.148
LTE B38 20MHz 1RB#0	37850/2580.0	23.97	23.5 ± 1.0	24.50	1.130
	38000/2595.0	23.86	23.5 ± 1.0	24.50	1.159
	38150/2610.0	24.04	23.5 ± 1.0	24.50	1.112
LTE B38 20MHz 50%RB#0	37850/2580.0	22.95	22.5 ± 1.0	23.50	1.135
	38000/2595.0	22.96	22.5 ± 1.0	23.50	1.132
	38150/2610.0	22.93	22.5 ± 1.0	23.50	1.140
LTE B41 20MHz 1RB#0	40340/2565.0	23.31	23.0 ± 1.0	24.00	1.172
	40740/2605.0	23.36	23.0 ± 1.0	24.00	1.159
	41140/2645.0	23.46	23.0 ± 1.0	24.00	1.132
LTE B41 20MHz 50%RB#0	40340/2565.0	22.36	22.0 ± 1.0	23.00	1.159
	40740/2605.0	22.37	22.0 ± 1.0	23.00	1.156
	41140/2645.0	22.41	22.0 ± 1.0	23.00	1.146
LTE B71 20MHz 1RB#0	133222/673.0	23.39	23.0 ± 1.0	24.00	1.151
	133322/683.0	23.51	23.0 ± 1.0	24.00	1.119
	133372/688.0	23.46	23.0 ± 1.0	24.00	1.132
LTE B71 20MHz 50%RB#0	133222/673.0	22.44	22.0 ± 1.0	23.00	1.138
	133322/683.0	22.42	22.0 ± 1.0	23.00	1.143
	133372/688.0	22.58	22.0 ± 1.0	23.00	1.102
WIFI 2.4G 802.11b	1/2412.0	10.49	10.0 ± 1.0	11.00	1.125
	6/2437.0	7.69	7.0 ± 1.0	8.00	1.074
	11/2462.0	10.60	10.0 ± 1.0	11.00	1.096
WIFI 5G U-NII 1 802.11a	36/5180.0	12.60	12.0 ± 1.0	13.00	1.096
	44/5220.0	12.47	12.0 ± 1.0	13.00	1.130
	48/5240.0	12.31	12.0 ± 1.0	13.00	1.172



WIFI 5G U-NII 3 802.11n40	151/5755.0	9.26	9.0 ± 1.0	10.00	1.186
	159/5795.0	9.68	9.0 ± 1.0	10.00	1.076
Bluetooth BLE 1M	0/2402.0	1.44	-2.0 ± 4.0	2.00	1.138
	19/2440.0	-3.80	-2.0 ± 4.0	2.00	3.802
	39/2480.0	-2.20	-2.0 ± 4.0	2.00	2.630



10. Test Results

Results overview of WCDMA 850

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	4183/836.6	RMC	0.658	-0.67	1.084	0.713	1.6	/
Back Upward	4183/836.6	RMC	0.514	2.51	1.084	0.557	1.6	/
Edge 1	4183/836.6	RMC	0.161	-1.88	1.084	0.175	1.6	/
Front Upward	4132/826.4	RMC	0.709	-0.31	1.169	0.829	1.6	1
Front Upward	4233/846.6	RMC	0.550	0.93	1.117	0.614	1.6	/

Results overview of WCDMA 1700

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	1413/1732.6	RMC	0.505	-2.06	1.159	0.585	1.6	/
Back Upward	1413/1732.6	RMC	0.384	-1.89	1.159	0.445	1.6	/
Edge 1	1413/1732.6	RMC	0.629	0.39	1.159	0.729	1.6	/
Edge 1	1312/1712.4	RMC	0.632	-1.00	1.138	0.719	1.6	/
Edge 1	1513/1752.6	RMC	0.770	0.71	1.096	0.844	1.6	2

Results overview of WCDMA 1900

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	9400/1880.0	RMC	0.458	-0.18	1.178	0.540	1.6	/
Back Upward	9400/1880.0	RMC	0.378	2.22	1.178	0.445	1.6	/
Edge 1	9400/1880.0	RMC	0.535	-2.74	1.178	0.630	1.6	/
Edge 1	9262/1852.4	RMC	0.599	1.69	1.175	0.704	1.6	3
Edge 1	9538/1907.6	RMC	0.447	0.82	1.107	0.495	1.6	/

**Results overview of FDD LTE Band 2, QPSK, 20MHz Bandwidth**

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot
1RB#0								
Front Upward	18900/1880.0	QPSK	0.841	2.22	1.167	0.981	1.6	/
Front Upward	18700/1860.0	QPSK	0.880	-1.95	1.122	0.987	1.6	4
Front Upward Repeat	18700/1860.0	QPSK	0.863	0.20	1.122	0.968	1.6	/
Front Upward	19100/1900.0	QPSK	0.842	-0.18	1.135	0.956	1.6	/
Back Upward	18900/1880.0	QPSK	0.329	-0.60	1.167	0.384	1.6	/
Edge 1	18900/1880.0	QPSK	0.798	-2.25	1.167	0.931	1.6	/
Edge 1	18700/1860.0	QPSK	0.826	0.83	1.122	0.927	1.6	/
Edge 1 Repeat	18700/1860.0	QPSK	0.843	-0.19	1.122	0.946	1.6	/
Edge 1	19100/1900.0	QPSK	0.772	-1.55	1.135	0.876	1.6	/
50%RB#0								
Front Upward	18900/1880.0	QPSK	0.641	-0.43	1.112	0.713	1.6	/
Back Upward	18900/1880.0	QPSK	0.249	-2.18	1.112	0.277	1.6	/
Edge 1	18900/1880.0	QPSK	0.603	-1.15	1.112	0.671	1.6	/
100%RB#0								
Front Upward	18900/1880.0	QPSK	0.605	-0.95	1.119	0.677	1.6	/
Back Upward	18900/1880.0	QPSK	0.220	-0.76	1.119	0.246	1.6	/
Edge 1	18900/1880.0	QPSK	0.581	1.34	1.119	0.650	1.6	/

**Results overview of FDD LTE Band 4, QPSK, 20MHz Bandwidth**

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot
1RB#0								
Front Upward	20175/1732.5	QPSK	0.727	1.38	1.172	0.852	1.6	/
Back Upward	20175/1732.5	QPSK	0.340	-2.89	1.172	0.398	1.6	/
Edge 1	20175/1732.5	QPSK	0.678	0.24	1.172	0.795	1.6	/
Front Upward	20050/1720.0	QPSK	0.685	0.39	1.127	0.772	1.6	/
Front Upward	20300/1745.0	QPSK	0.764	-1.20	1.140	0.871	1.6	5
50%RB#0								
Front Upward	18900/1880.0	QPSK	0.556	0.98	1.140	0.634	1.6	/
Back Upward	18900/1880.0	QPSK	0.260	-1.22	1.140	0.296	1.6	/
Edge 1	18900/1880.0	QPSK	0.523	1.72	1.140	0.596	1.6	/
100%RB#0								
Front Upward	18900/1880.0	QPSK	0.543	-1.01	1.140	0.619	1.6	/
Back Upward	18900/1880.0	QPSK	0.258	0.67	1.140	0.294	1.6	/
Edge 1	18900/1880.0	QPSK	0.508	1.99	1.140	0.579	1.6	/

**Results overview of FDD LTE Band 5, QPSK, 10MHz Bandwidth**

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot
1RB#0								
Front Upward	20525/836.5	QPSK	0.705	-1.81	1.140	0.804	1.6	6
Back Upward	20525/836.5	QPSK	0.486	1.49	1.140	0.554	1.6	/
Edge 1	20525/836.5	QPSK	0.134	-2.67	1.140	0.153	1.6	/
Front Upward	20450/829.0	QPSK	0.667	-2.79	1.122	0.748	1.6	/
Front Upward	20600/844.0	QPSK	0.636	-0.78	1.169	0.743	1.6	/
50%RB#0								
Front Upward	20525/836.5	QPSK	0.537	-1.07	1.153	0.619	1.6	/
Back Upward	20525/836.5	QPSK	0.370	-0.78	1.153	0.427	1.6	/
Edge 1	20525/836.5	QPSK	0.103	0.37	1.153	0.119	1.6	/
100%RB#0								
Front Upward	20525/836.5	QPSK	0.529	2.34	1.164	0.616	1.6	/
Back Upward	20525/836.5	QPSK	0.356	-0.90	1.164	0.414	1.6	/
Edge 1	20525/836.5	QPSK	0.098	0.53	1.164	0.114	1.6	/

**Results overview of FDD LTE Band 7, QPSK, 20MHz Bandwidth**

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot
1RB#0								
Front Upward	21100/2535.0	QPSK	0.744	0.94	1.175	0.874	1.6	/
Back Upward	21100/2535.0	QPSK	0.498	2.71	1.175	0.585	1.6	/
Edge 1	21100/2535.0	QPSK	0.588	0.58	1.175	0.691	1.6	/
Front Upward	20850/2510.0	QPSK	0.727	-1.17	1.167	0.848	1.6	/
Front Upward	21350/2560.0	QPSK	0.801	-2.02	1.161	0.930	1.6	/
Front Upward Repeat	21350/2560.0	QPSK	0.819	1.09	1.161	0.951	1.6	7
50%RB#0								
Front Upward	21100/2535.0	QPSK	0.595	-2.11	1.175	0.699	1.6	/
Back Upward	21100/2535.0	QPSK	0.402	-0.21	1.175	0.472	1.6	/
Edge 1	21100/2535.0	QPSK	0.448	-3.65	1.175	0.526	1.6	/
100%RB#0								
Front Upward	21100/2535.0	QPSK	0.580	1.64	1.197	0.694	1.6	/
Back Upward	21100/2535.0	QPSK	0.386	-1.72	1.197	0.462	1.6	/
Edge 1	21100/2535.0	QPSK	0.417	-0.87	1.197	0.499	1.6	/

**Results overview of FDD LTE Band 12, QPSK, 10MHz Bandwidth**

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot
1RB#0								
Front Upward	23095/707.5	QPSK	0.654	-0.62	1.135	0.742	1.6	/
Back Upward	23095/707.5	QPSK	0.438	2.95	1.135	0.497	1.6	/
Edge 1	23095/707.5	QPSK	0.208	1.50	1.135	0.236	1.6	/
Front Upward	23060/704.0	QPSK	0.641	-0.67	1.153	0.739	1.6	/
Front Upward	23130/711.0	QPSK	0.675	-1.20	1.122	0.757	1.6	8
50%RB#0								
Front Upward	23095/707.5	QPSK	0.503	2.83	1.146	0.576	1.6	/
Back Upward	23095/707.5	QPSK	0.351	-0.80	1.146	0.402	1.6	/
Edge 1	23095/707.5	QPSK	0.156	1.17	1.146	0.179	1.6	/

**Results overview of FDD LTE Band 17, QPSK, 10MHz Bandwidth**

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot
1RB#0								
Front Upward	23790/710.0	QPSK	0.683	2.45	1.161	0.793	1.6	/
Back Upward	23790/710.0	QPSK	0.472	-0.80	1.161	0.548	1.6	/
Edge 1	23790/710.0	QPSK	0.209	1.13	1.161	0.243	1.6	/
Front Upward	23780/709.0	QPSK	0.671	-2.28	1.175	0.788	1.6	/
Front Upward	23800/711.0	QPSK	0.698	1.01	1.164	0.812	1.6	9
50%RB#0								
Front Upward	23790/710.0	QPSK	0.522	2.18	1.127	0.588	1.6	/
Back Upward	23790/710.0	QPSK	0.359	-1.30	1.127	0.405	1.6	/
Edge 1	23790/710.0	QPSK	0.158	-0.34	1.127	0.178	1.6	/
100%RB#0								
Front Upward	23790/710.0	QPSK	0.504	-1.42	1.156	0.583	1.6	/
Back Upward	23790/710.0	QPSK	0.341	1.13	1.156	0.394	1.6	/
Edge 1	23790/710.0	QPSK	0.143	-2.99	1.156	0.165	1.6	/

**Results overview of FDD LTE Band 25, QPSK, 20MHz Bandwidth**

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot
1RB#0								
Front Upward	26365/1882.5	QPSK	0.709	-0.94	1.099	0.779	1.6	/
Back Upward	26365/1882.5	QPSK	0.368	2.89	1.099	0.404	1.6	/
Edge 1	26365/1882.5	QPSK	0.213	1.30	1.099	0.234	1.6	/
Front Upward	26140/1860.0	QPSK	0.718	-0.50	1.164	0.836	1.6	10
Front Upward	26590/1905.0	QPSK	0.694	1.45	1.143	0.793	1.6	/
50%RB#0								
Front Upward	26365/1882.5	QPSK	0.542	2.21	1.132	0.614	1.6	/
Back Upward	26365/1882.5	QPSK	0.283	-2.85	1.132	0.320	1.6	/
Edge 1	26365/1882.5	QPSK	0.163	1.58	1.132	0.185	1.6	/
100%RB#0								
Front Upward	26365/1882.5	QPSK	0.518	1.36	1.135	0.588	1.6	/
Back Upward	26365/1882.5	QPSK	0.250	-2.88	1.135	0.284	1.6	/
Edge 1	26365/1882.5	QPSK	0.148	1.93	1.135	0.168	1.6	/

**Results overview of FDD LTE Band 26, QPSK, 15MHz Bandwidth**

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot
1RB#0								
Front Upward	26865/831.5	QPSK	0.646	0.37	1.091	0.705	1.6	/
Back Upward	26865/831.5	QPSK	0.464	-2.48	1.091	0.506	1.6	/
Edge 1	26865/831.5	QPSK	0.114	0.22	1.091	0.124	1.6	/
Front Upward	26765/821.5	QPSK	0.686	-2.09	1.107	0.759	1.6	11
Front Upward	26965/841.5	QPSK	0.575	0.87	1.130	0.650	1.6	/
50%RB#0								
Front Upward	26865/831.5	QPSK	0.492	1.09	1.122	0.552	1.6	/
Back Upward	26865/831.5	QPSK	0.351	-1.33	1.122	0.394	1.6	/
Edge 1	26865/831.5	QPSK	0.086	-2.72	1.122	0.096	1.6	/

Results overview of TDD LTE Band 38, QPSK, 20MHz Bandwidth

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot
1RB#0								
Front Upward	38000/2595.0	QPSK	0.666	0.45	1.159	0.772	1.6	/
Back Upward	38000/2595.0	QPSK	0.397	-0.70	1.159	0.460	1.6	/
Edge 1	38000/2595.0	QPSK	0.482	2.49	1.159	0.559	1.6	/
Front Upward	37850/2580.0	QPSK	0.691	-0.36	1.130	0.781	1.6	12
Front Upward	38150/2610.0	QPSK	0.618	-1.65	1.112	0.687	1.6	/
50%RB#0								
Front Upward	38000/2595.0	QPSK	0.522	-2.05	1.132	0.591	1.6	/
Back Upward	38000/2595.0	QPSK	0.310	0.54	1.132	0.351	1.6	/
Edge 1	38000/2595.0	QPSK	0.393	2.26	1.132	0.445	1.6	/

**Results overview of TDD LTE Band 41(2555-2655 MHz), QPSK, 20MHz Bandwidth**

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot
1RB#0								
Front Upward	40740/2605.0	QPSK	0.576	0.70	1.159	0.668	1.6	/
Back Upward	40740/2605.0	QPSK	0.294	-1.56	1.159	0.341	1.6	/
Edge 1	40740/2605.0	QPSK	0.400	-0.62	1.159	0.464	1.6	/
Front Upward	40340/2565.0	QPSK	0.518	-2.15	1.172	0.607	1.6	/
Front Upward	41140/2645.0	QPSK	0.620	1.21	1.132	0.702	1.6	13
50%RB#0								
Front Upward	40740/2605.0	QPSK	0.465	-1.50	1.156	0.538	1.6	/
Back Upward	40740/2605.0	QPSK	0.232	0.37	1.156	0.268	1.6	/
Edge 1	40740/2605.0	QPSK	0.315	-0.92	1.156	0.364	1.6	/

Results overview of FDD LTE Band 71, QPSK, 20MHz Bandwidth

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot
1RB#0								
Front Upward	133322/683.0	QPSK	0.271	-0.99	1.119	0.303	1.6	/
Back Upward	133322/683.0	QPSK	0.187	0.26	1.119	0.209	1.6	/
Edge 1	133322/683.0	QPSK	0.129	1.81	1.119	0.144	1.6	/
Front Upward	133222/673.0	QPSK	0.316	-1.04	1.151	0.364	1.6	14
Front Upward	133372/688.0	QPSK	0.250	0.74	1.132	0.283	1.6	/
50%RB#0								
Front Upward	133322/683.0	QPSK	0.209	-0.62	1.143	0.239	1.6	/
Back Upward	133322/683.0	QPSK	0.145	0.92	1.143	0.166	1.6	/
Edge 1	133322/683.0	QPSK	0.107	-2.17	1.143	0.122	1.6	/

**Results overview of WIFI 2.4G**

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	6/2437.0	802.11b	0.163	0.50	1.074	0.175	1.6	/
Back Upward	6/2437.0	802.11b	0.061	2.72	1.074	0.066	1.6	/
Edge 2	6/2437.0	802.11b	0.079	-2.06	1.074	0.085	1.6	/
Front Upward	1/2402.0	802.11b	0.267	0.19	1.125	0.300	1.6	/
Front Upward	11/2462.0	802.11b	0.315	1.16	1.096	0.345	1.6	15

Results overview of WIFI 5G U-NII 1

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	44/5220.0	802.11a	0.193	-0.90	1.130	0.218	1.6	16
Back Upward	44/5220.0	802.11a	0.079	-2.82	1.130	0.089	1.6	/
Edge 2	44/5220.0	802.11a	0.173	1.39	1.130	0.195	1.6	/
Front Upward	36/5180.0	802.11a	0.163	0.20	1.096	0.179	1.6	/
Front Upward	48/5240.0	802.11a	0.175	-0.11	1.172	0.205	1.6	/

Results overview of WIFI 5G U-NII 3

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	159/5795.0	802.11n40	0.270	-0.60	1.186	0.320	1.6	/
Back Upward	159/5795.0	802.11n40	0.141	2.11	1.186	0.167	1.6	/
Edge 2	159/5795.0	802.11n40	0.365	1.02	1.186	0.433	1.6	17
Edge 2	151/5755.0	802.11n40	0.342	-0.36	1.076	0.368	1.6	/

**Results overview of Bluetooth**

Body-worn& Hotspot(5mm)	Channel /Frequency	Mode	SAR Value (W/kg)1-g	Power drift(%)	Scaled Factor	Scaled SAR (W/Kg)1-g	Limit (W/kg)	SAR Plot.
Front Upward	0/2402.0	BLE 1M	0.028	-1.75	1.138	0.032	1.6	18
Back Upward	0/2402.0	BLE 1M	0.010	2.36	1.138	0.011	1.6	/
Edge 2	0/2402.0	BLE 1M	<0.001	/	1.138	<0.001	1.6	/

Note:

1. The maximum SAR value of each test band is marked bold.
2. When the 1-g SAR for the mid-band channel or the channel with the highest output power satisfy the following conditions, testing of the other channels in the band is not required. (Per KDB 447498 D01 General RF Exposure Guidance v06)
 - ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg, when the transmission band is ≥ 200 MHz
3. *: Due the antenna location and antenna performance results the SAR value lower than the lowest system limit, then we show “<0.001 W/Kg” in the report.



11. Simultaneous Transmissions Analysis

Localized Specific Absorption Rate (SAR) of this portable wireless device has been measured in all cases requested by the relevant standards cited in Clause 6 of this report. Maximum localized SAR is **below** exposure limits specified in the relevant standards.

Simultaneous SAR

No.	Transmitter Combinations	Head	Body	Hotspot
1	WWAN + WLAN 2.4GHz	Support	Support	Support
2	WWAN + WLAN 5.2G/5.8GHz	Support	Support	Support
3	WWAN+ Bluetooth	Support	Support	No

Note:

1. EUT will choose each GSM, WCDMA, LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
2. The reported SAR summation is calculated based on the same configuration and test position.



Simultaneous Tx Combination of GSM/WCDMA/LTE and Bluetooth/WIFI(Body-worn).

Test Position		Front	Back	Edge 1	Edge 2
Body-worn MAX 1-g SAR(W/Kg) 5mm distance	WCDMA 850	0.829	0.557	/	/
	WCDMA 1700	0.585	0.445	/	/
	WCDMA 1900	0.540	0.445	/	/
	LTE Band 2	0.987	0.384	/	/
	LTE Band 4	0.871	0.398	/	/
	LTE Band 5	0.804	0.554	/	/
	LTE Band 7	0.951	0.585	/	/
	LTE Band 12	0.757	0.497	/	/
	LTE Band 17	0.812	0.548	/	/
	LTE Band 25	0.836	0.404	/	/
	LTE Band 26	0.759	0.506	/	/
	LTE Band 38	0.781	0.460	/	/
	LTE Band 41	0.702	0.341	/	/
	LTE Band 71	0.364	0.209	/	/
	WIFI 2.4G	0.345	0.066	/	/
	WIFI 5G U-NII 1	0.218	0.089	/	/
	WIFI 5G U-NII 3	0.320	0.167	/	/
	Bluetooth	0.032	0.011	/	/
WWAN MAX SAR		0.987	0.585	/	/
WIFI/Bluetooth MAX SAR		0.345	0.167	/	/
Max Simultaneous $\sum$ 1-g SAR(W/Kg) (WIFI/Bluetooth MAX SAR +WWAN ANT MAX SAR)		1.332	0.752	/	/



Simultaneous Tx Combination of GSM/WCDMA/LTE and WIFI (Hotspot).

Test Position		Front	Back	Edge 1	Edge 2
Hotspot MAX 1-g SAR(W/Kg) 5mm distance	WCDMA 850	0.829	0.557	0.175	/
	WCDMA 1700	0.585	0.445	0.844	/
	WCDMA 1900	0.540	0.445	0.704	/
	LTE Band 2	0.987	0.384	0.946	/
	LTE Band 4	0.871	0.398	0.795	/
	LTE Band 5	0.804	0.554	0.153	/
	LTE Band 7	0.951	0.585	0.691	/
	LTE Band 12	0.757	0.497	0.236	/
	LTE Band 17	0.812	0.548	0.243	/
	LTE Band 25	0.836	0.404	0.234	/
	LTE Band 26	0.759	0.506	0.124	/
	LTE Band 38	0.781	0.460	0.559	/
	LTE Band 41	0.702	0.341	0.464	/
	LTE Band 71	0.364	0.209	0.144	/
	WIFI 2.4G	0.345	0.066	/	0.085
	WIFI 5G U-NII 1	0.218	0.089	/	0.195
	WIFI 5G U-NII 3	0.320	0.167	/	0.433
WWAN MAX SAR		0.987	0.585	0.946	/
WIFI/Bluetooth MAX SAR		0.345	0.167	0.000	0.433
Max Simultaneous Σ 1-g SAR(W/Kg) (WIFI/Bluetooth MAX SAR +WWAN ANT MAX SAR)		1.332	0.752	0.946	0.433

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required



12.Measurement Uncertainty

No.	Uncertainty Component	Type	Uncertainty Value (%)	Probability Distribution	k	ci	Standard Uncertainty (%) $u_i(\%)$	Degree of freedom ν_{eff} or ν_i
	Measurement System							
1	- Probe Calibration	B	5.8	N	1	1	5.8	∞
2	- Axial isotropy	B	3.5	R	$\sqrt{3}$	0.5	1.43	∞
3	— Hemispherical Isotropy	B	5.9	R	$\sqrt{3}$	0.5	2.41	∞
4	- Boundary Effect	B	1	R	$\sqrt{3}$	1	0.58	∞
5	- Linearity	B	4.7	R	$\sqrt{3}$	1	2.71	∞
6	- System Detection Limits	B	1.0	R	$\sqrt{3}$	1	0.58	∞
7	Modulation response	B	3	N	1	1	3.00	
8	- Readout Electronics	B	0.5	N	1	1	0.50	∞
9	- Response Time	B	1.4	R	$\sqrt{3}$	1	0.81	∞
10	- Integration Time	B	3.0	R	$\sqrt{3}$	1	1.73	∞
11	- RF Ambient Conditions	B	3.0	R	$\sqrt{3}$	1	1.73	∞
12	- Probe Position Mechanical tolerance	B	1.4	R	$\sqrt{3}$	1	0.81	∞
13	- Probe Position with respect to Phantom Shell	B	1.4	R	$\sqrt{3}$	1	0.81	∞
14	- Extrapolation, Interpolation and Integration Algorithms for Max. SAR evaluation	B	2.3	R	$\sqrt{3}$	1	1.33	∞



Uncertainties of the DUT								
15	- Position of the DUT	A	2.6	N	$\sqrt{3}$	1	2.6	5
16	- Holder of the DUT	A	3	N	$\sqrt{3}$	1	3.0	5
17	- Output Power Variation – SAR drift measurement	B	5.0	R	$\sqrt{3}$	1	2.89	∞
Phantom and Tissue Parameters								
18	- Phantom Uncertainty(shape and thickness tolerances)	B	4	R	$\sqrt{3}$	1	2.31	∞
19	Uncertainty in SAR correction for deviation(in permittivity and conductivity)	B	2	N	1	1	2.00	
20	- Liquid Conductivity Target – tolerance	B	2.5	R	$\sqrt{3}$	0.6	1.95	∞
21	- Liquid Conductivity – measurement Uncertainty)	B	4	N	$\sqrt{3}$	1	0.92	9
22	- Liquid Permittivity Target tolerance	B	2.5	R	$\sqrt{3}$	0.6	1.95	∞
23	- Liquid Permittivity – measurement uncertainty	B	5	N	$\sqrt{3}$	1	1.15	∞
Combined Standard Uncertainty				RSS			10.63	
Expanded uncertainty (Confidence interval of 95 %)				K=2			21.26	



13. System Check Uncertainty

No.	Uncertainty Component	Type	Uncertainty Value (%)	Probability Distribution	k	ci	Standard Uncertainty (%) $u_i(\%)$	Degree of freedom ν_{eff} or ν_i
Measurement System								
1	- Probe Calibration	B	5.8	N	1	1	5.8	∞
2	- Axial isotropy	B	3.5	R	$\sqrt{3}$	0.5	1.43	∞
3	- Hemispherical Isotropy	B	5.9	R	$\sqrt{3}$	0.5	2.41	∞
4	- Boundary Effect	B	1	R	$\sqrt{3}$	1	0.58	∞
5	- Linearity	B	4.7	R	$\sqrt{3}$	1	2.71	∞
6	- System Detection Limits	B	1	R	$\sqrt{3}$	1	0.58	∞
7	Modulation response	B	0	N	1	1	0.00	
8	- Readout Electronics	B	0.5	N	1	1	0.50	∞
9	- Response Time	B	0.00	R	$\sqrt{3}$	1	0.00	∞
10	- Integration Time	B	1.4	R	$\sqrt{3}$	1	0.81	∞
11	- RF Ambient Conditions	B	3.0	R	$\sqrt{3}$	1	1.73	∞
12	- Probe Position Mechanical tolerance	B	1.4	R	$\sqrt{3}$	1	0.81	∞
13	- Probe Position with respect to Phantom Shell	B	1.4	R	$\sqrt{3}$	1	0.81	∞
14	- Extrapolation, Interpolation and Integration Algorithms for Max. SAR evaluation	B	2.3	R	$\sqrt{3}$	1	1.33	∞



Uncertainties of the DUT								
15	Deviation of experimental source from numerical source	A	4	N	1	1	4.00	5
16	Input Power and SAR drift measurement	A	5	R	$\sqrt{3}$	1	2.89	5
17	Dipole Axis to Liquid Distance	B	2	R	$\sqrt{3}$	1	1.2	∞
Phantom and Tissue Parameters								
18	- Phantom Uncertainty(shape and thickness tolerances)	B	4	R	$\sqrt{3}$	1	2.31	∞
19	Uncertainty in SAR correction for deviation(in permittivity and conductivity)	B	2	N	1	1	2.00	
20	- Liquid Conductivity Target – tolerance	B	2.5	R	$\sqrt{3}$	0.6	1.95	∞
21	- Liquid Conductivity – measurement Uncertainty)	B	4	N	$\sqrt{3}$	1	0.92	9
22	- Liquid Permittivity Target tolerance	B	2.5	R	$\sqrt{3}$	0.6	1.95	∞
23	- Liquid Permittivity – measurement uncertainty	B	5	N	$\sqrt{3}$	1	1.15	∞
Combined Standard Uncertainty				RSS			10.15	
Expanded uncertainty (Confidence interval of 95 %)				K=2			20.29	



14. Equipment List

This table is a complete overview of the SAR measurement equipment. Devices used during the test described are marked ☒.

	EQUIPMENT	Model	Serial number	Calibration Date	Due Date
☒	SAR Probe	SSE2	3723-EPGO-433	2024/04/17	2025/04/16
☒	SAR Probe	SSE2	SN 41/18 EPGO330	2024/01/24	2025/01/23
☒	Dipole	SID750	SN 23/15 DIP0G750-378	2023/05/24	2026/05/23
☒	Dipole	SID835	SN 09/13 DIP0G835-217	2023/05/24	2026/05/23
☒	Dipole	SID1800	SN 09/13 DIP1G800-216	2023/05/24	2026/05/23
☒	Dipole	SID1900	SN 09/13 DIP1G900-218	2023/05/24	2026/05/23
☒	Dipole	SID2450	SN 09/13 DIP2G450-220	2023/05/24	2026/05/23
☒	Dipole	SID2600	SN 32/14 DIP2G600-338	2023/05/24	2026/05/23
☒	Dipole	SWG5500	SN15/15 WGA39	2023/05/25	2026/05/24
☒	Multimeter	Keithley-2000	4014020	2023/02/20	2024/02/19
☒	System Simulator(R&S)	CMW500	148888	2024/03/27	2025/03/26
☒	KEYSIGHT	E7515A	MY56040357	2024/01/18	2025/01/17
☒	Vector Network Analyzer(R&S)	ZVB8	100343	2024/01/18	2025/01/17
☒	PC 3.5 Fixed Match Calibration Kit	ZV-Z32	100571	2024/01/18	2025/01/17
☒	Dielectric Probe Kit	SCLMP	SN 09/13 OCPG51	2024/01/18	2025/01/17
☒	Signal Generator	SMU100A	177649	2024/01/18	2025/01/17
☒	Amplifier	Nucletudes	143060	2024/01/18	2025/01/17
☒	Directional Coupler	DC6180A	305827	2024/06/02	2025/06/01
☒	Power Meter	NRP2	103434	2024/01/18	2025/01/17



ANNEX A: Appendix A: SAR System performance Check Plots

(Please See Appendix A)

ANNEX B: Appendix B: SAR Measurement results Plots

(Please See Appendix B)

ANNEX C: Appendix C: Calibration reports

(Please See Appendix C)

ANNEX D: Appendix D: SAR Test Setup

(Please See Appendix D)

—End of the Report—