

SAR TEST REPORT

for

Imin Technology Pte Ltd

POS Device

Model No.: I23M03

Brand: imin

FCC ID: 2AYD5-I23M03

The MAX SAR(1g)	
Body SAR	0.845W/Kg

Test distance: 10mm

Prepared for : Imin Technology Pte Ltd
11 Bishan Street 21, #03-05 Bosch Building, Singapore,
573943

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SAR TEST REPORT

Applicant : Imin Technology Pte Ltd
 Manufacturer : Imin Technology Pte Ltd
 Product : POS Device
 Model No. : I23M03
 Brand : imin
 Test Voltage : 7.6Vdc from 2500mAh Li-ion Battery

Measurement Standard Used:

- FCC 47 CFR Part 2 (2.1093)
- IEEE C95.1-1999
- IEC/IEEE 62209-1528: 2020
- IEC62209-1:2016
- IEC62209-2:2010
- FCC OET Bulletin 65 Supplement C (Edition 01-01)
- FCC KDB 447498 D04 v01
- FCC KDB 865664 D01/D02
- FCC KDB 248227 D01 v02r02
- KDB 648474 D04
- KDB 941225 D05

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. This report contains data that are not covered by the NVLAP accreditation. Also, this report shows that the EUT is technically compliant with the FCC test requirement.

This report applies to single evaluation of one sample of above mentioned product. And shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd..

Date of Test : Mar.11~14, 2024 Report of date: Mar.20, 2024

Prepared by : Jasmine Ning / Assistant
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信華科技(深圳)有限公司
 Audix Technology (Shenzhen) Co., Ltd.
 EMC 部門報告專用章

Stamp only for EMC Dept. Report

Signature: Sammy Le

Approved & Authorized Signer : _____
 Sammy Le / Manager

REPORT REVISION HISTORY

Edition No.	Revision	Issue Date	Report No.
Original	Initial issue of report	Mar.20, 2024	ACS-SF24002

1. GENERAL INFORMATION

1.1. Description of Equipment Under Test

Applicant	Imin Technology Pte Ltd		
Applicant Address	11 Bishan Street 21, #03-05 Bosch Building, Singapore, 573943		
Manufacturer	Imin Technology Pte Ltd		
Manufacturer Address	11 Bishan Street 21, #03-05 Bosch Building, Singapore, 573943		
Product	POS Device		
Model No.	I23M03		
Brand	imin		
FCC ID	2AYD5-I23M03		
Sample Type	Prototype production		
Date of Receipt	Mar.06, 2024		
Date of Test	Mar.11~14, 2024		
Operating Mode	GSM, WCDMA, LTE, WLAN, Bluetooth		
Frequency Range	NFC	13.56MHz	
	GSM 850	UL: 824MHz~849MHz	DL: 869MHz~894MHz
	PCS 1900	UL: 1850MHz~1910MHz	DL: 1930MHz~1990MHz
	WCDMA Band 2	UL: 1852.4MHz~1907.6MHz	DL: 1932.6MHz~1987.4MHz
	WCDMA Band 5	UL: 826.4MHz~846.6MHz	DL: 871.6MHz~1891.4MHz
	LTE Band 2	UL: 1850.7MHz~1909.3MHz	DL: 1930.7MHz~1989.3MHz
	LTE Band 4	UL: 1710.7MHz~1754.3MHz	DL: 2110.7MHz~2154.3MHz
	LTE Band 5	UL: 824.7MHz~848.3MHz	DL: 869.7MHz~893.3MHz
	LTE Band 7	UL: 2502.5MHz~2567.5MHz	DL: 2622.5MHz~2687.5MHz
	LTE Band 12	UL: 699.7MHz~715.3MHz	DL: 729.7MHz~745.3MHz
	LTE Band 17	UL: 706.5MHz~713.5MHz	DL: 736.5MHz~743.5MHz
	LTE Band 41	UL: 2498.5MHz~2687.5MHz	DL: 2498.5MHz~2687.5MHz
	802.11 b/g/n(HT20)	2412MHz~2462MHz	
	802.11 a 802.11n(HT20/HT40) 802.11ac(VHT20/ VHT40/ VHT80)	5150 MHz~5250 MHz	
		5250 MHz~5350MHz	
		5470 MHz~5725 MHz	
5725 MHz~5850 MHz			
Bluetooth	2402 MHz~2480 MHz		

2. GENERAL DESCRIPTION

2.1. Product Description For EUT

[None]

2.2. Applied Standards

The Specific Absorption Rate (SAR) testing specification, method and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- IEEE C95.1-1999
- IEC/IEEE 62209-1528: 2020
- IEC62209-1:2016
- IEC62209-2:2010
- FCC OET Bulletin 65 Supplement C (Edition 01-01)
- FCC KDB 447498 D01 v06
- FCC KDB 447498 D04 v01
- FCC KDB 865664 D01/D02
- FCC KDB 248227 D01 v02r02

2.3. Device Category and SAR Limits

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

2.4. Test Conditions

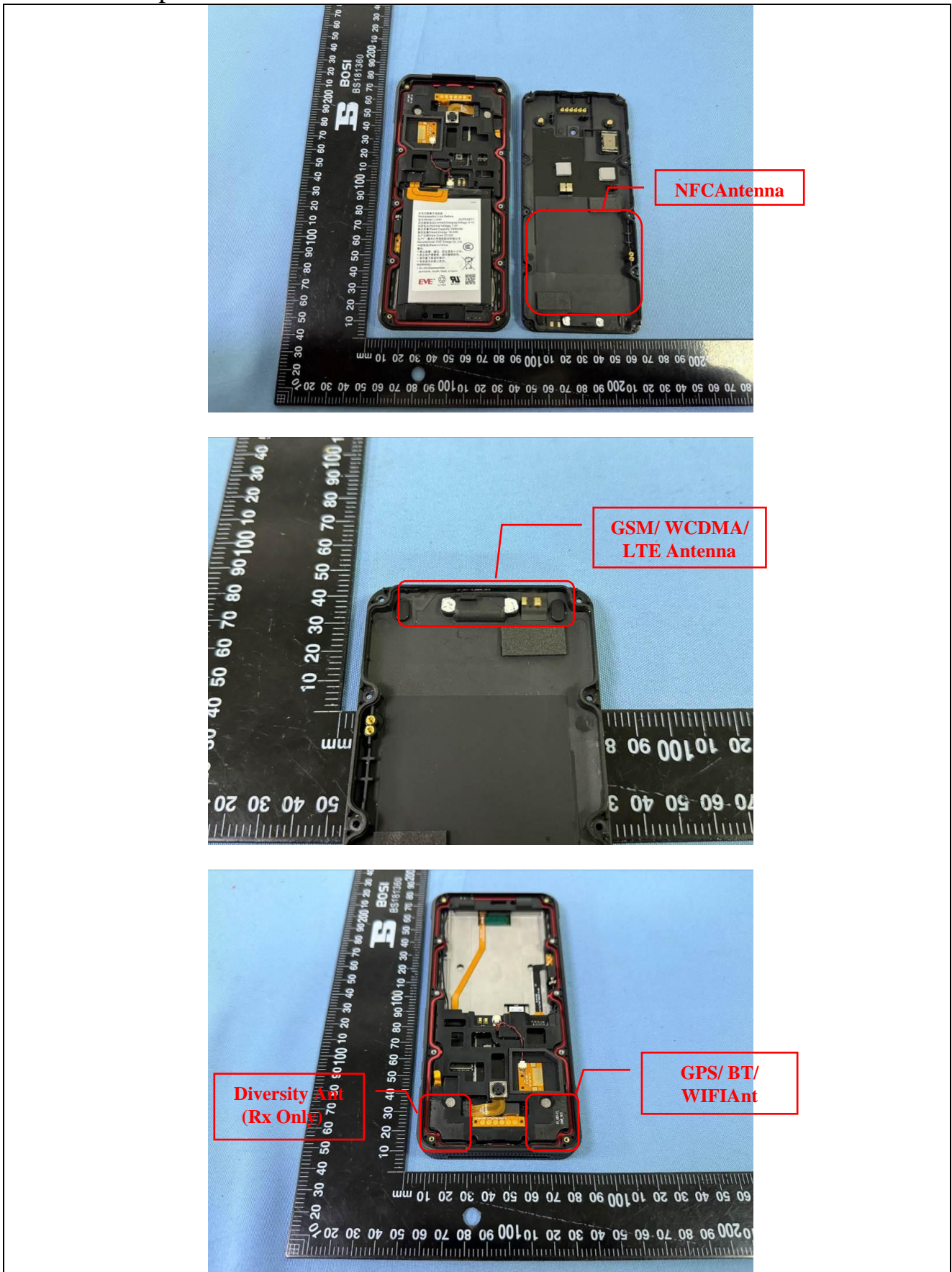
2.4.1. Ambient Condition

Ambient Temperature	20 to 24 °C
Humidity	< 60 %

2.4.2. Test Configuration

The distance between the EUT and the antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30dB smaller than the output power of EUT. The EUT was set from the emulator to radiate maximum output power during all tests.

2.5.Exposure Positions Consideration



Sides for SAR tests										
Band	Body									
	Back	Back-1	Back-2	Front	Top	Top-1	Top-2	Bottom	Left	Right
WLAN 2.4GHz	✓	✓	✓	✓	✓	✓	✓	X	✓	✓
WLAN 5GHz	✓	✓	✓	✓	✓	✓	✓	X	✓	✓
GSM	✓	✓	✓	✓	X	X	X	✓	✓	✓
LTE	✓	✓	✓	✓	X	X	X	✓	✓	✓
WCDMA	✓	✓	✓	✓	X	X	X	✓	✓	✓

Note:

1. The side which has a distance larger than 2.5cm from antenna can be excluded from SAR measurement.
2. Back without scanning head;
 Back-1 with print head;
 Back-2 with scanning head;
 Top without scanning head;
 Top-1 with print head;
 Top-2 with scanning head;
 Product a total of three scanner, the second and third only labeling differences, other PCB design and appearance are not any different, so only to verify the 2nd scanner.

2.6. Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied. The 1-g SAR test exclusion threshold for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

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

According to the KDB447498 appendix A, the SAR test exclusion threshold listed as below

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

2.7. Block Diagram of connection between EUT and simulators



(EUT: POS Device)

2.8. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date	Calibration Body
1.	DASY5 SAR Test System	Speag	TX60 L speag	F09/5B1H1/01	NCR	NCR	N/A
2.	ENA SERIES NETWORK ANALYZER	Agilent	E5071C	MY46316760	2023.09.15	2024.09.14	CCIC
3.	Power Meter	Anritsu	ML2487A	6K00003262	2023.06.26	2024.06.25	CCIC
4.	Power Sensor	Anritsu	MA2491A	032516	2023.06.26	2024.06.25	CCIC
5.	Signal Generator	Rohde&Schwarz	SMB100A	181375	2023.04.02	2024.04.01	CCIC
6.	Amplifier	Milmega	ZHL-42W	C620601316	NCR	NCR	N/A
7.	Dipole Validation Kits	Auden	D750V3	1159	2022.06.06	2025.06.05	CCTL
8.	Dipole Validation Kits	Speag	D900V2	1d088	2023.05.23	2026.05.22	CCTL
9.	Dipole Validation Kits	Speag	D1800V2	2d186	2023.05.23	2026.05.22	CCTL
10.	Dipole Validation Kits	Speag	D2450V2	862	2023.05.18	2026.05.17	CCTL
11.	Dipole Validation Kits	Speag	D5GHzV2	1102	2023.05.19	2026.05.18	CCTL
12.	Dipole Validation Kits	Speag	D2600V2	1123	2022.06.14	2025.06.13	CCTL
13.	Attenuator	N/A	1527	001	2023.09.15	2024.09.14	CCIC
14.	Date Acquisition Electronics	Speag	DAE4	899	2023.05.17	2024.05.16	CCTL
15.	E-Field Probe	Speag	EX3DV4	3767	2023.06.12	2024.06.11	CCTL
16.	Test Software	Schmid&Partner Englinnering AG	DASY5	52.8.7.1137	NCR	NCR	NCR
17.	Radio Communication Analyzer	ANRITSU	MT8821C	6201547828	2023.04.01	2024.03.31	CCIC
18.	Radio Communication Analyzer	Rohde & Schwarz	CMW500	103249	2023.09.15	2024.09.14	CCIC
19.	Measuring distance fixture(10mm)	N/A	N/A	N/A	N/A	N/A	N/A

Note1: NCR means no calibration required(calibrated with system).

Note2: N/A means Not applicable.

Note: Calibration Method

- a): Calibration conducted by the National Institute of Information and Communications Technology ~ NICT ~ or a designated calibration agency under Article 102-18 paragraph (1) ~ TELEC Engineering Center, Intertek Japan K.K., Keysight Technologies, Inc ~.
- b): Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) ~ Japan Calibration Service System ~
- c): Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1) ~ TELEC Engineering Center, Intertek Japan K.K., Keysight Technologies, Inc ~.
- d): Calibration conducted by using other equipment that listed above from a) to c)

Note 2: CCIC (Shenzhen) Metrology & Testing Service Co., Ltd

Addr : ShengHui Hongxing Chuangzhi Square, Tongren Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen

2.9.Laboratory Environment

Temperature	Min:20°C,Max.25°C
Relative humidity	Min. = 45%, Max. = 70%
Note: Ambient noise is checked and found very low and in compliance with requirement of standards.	

2.10.Measurement Uncertainty

Test Item	Uncertainty
Uncertainty for SAR test	1g: ± 21.2
	10g: ± 20.7
Uncertainty for test site temperature and humidity	$\pm 0.6^{\circ}\text{C}$

Source	Type	Uncertainty Value (%)	Probability Distribution	K	C1(1g)	C1(10g)	Standard uncertainty uI(%)1g	Standard uncertainty uI(%)10g	Degree of freedom Veff or Vi
Measurement system repeatability	A	0.5	N	1		1	0.5	0.5	9
Probe calibration	B	5.9	N	1	1	1	5.9	5.9	∞
Isotropy	B	4.7	R	√3	1	1	2.7	2.7	∞
Linearity	B	4.7	R	√3	1	1	2.7	2.7	∞
Probe modulation response	B	0	R	√3	1	1	0	0	∞
Detection limits	B	1.0	R	√3	1	1	0.6	0.6	∞
Boundary effect	B	1.9	R	√3	1	1	1.1	1.1	∞
Readout electronics	B	1.0	N	1	1	1	1.0	1.0	∞
Response time	B	0	R	√3	1	1	0	0	∞
Integration time	B	4.32	R	√3	1	1	2.5	2.5	∞
RF ambient conditions – noise	B	0	R	√3	1	1	0	0	∞
RF ambient conditions – reflections	B	3	R	√3	1	1	1.73	1.73	∞
Probe positioner mech. restrictions	B	0.4	R	√3	1	1	0.2	0.2	∞
Probe positioning with respect to phantom shell	B	2.9	R	√3	1	1	1.7	1.7	∞
Post-processing	B	0	R	√3	1	1	0	0	∞
Test sample related									
Device holder uncertainty	A	2.94	N	1	1	1	2.94	2.94	M-1
Test sample positioning	A	4.1	N	1	1	1	4.1	4.1	M-1
Power scaling	B	5.0	R	√3	1	1	2.9	2.9	∞
Drift of output power (measured SAR drift)	B	5.0	R	√3	1	1	2.9	2.9	∞
Phantom and set-up									
Phantom uncertainty (shape and thickness tolerances)	B	4.0	R	√3	1	1	2.3	2.1	∞
Algorithm for correcting SAR for deviations in permittivity and conductivity	B	1.9	N	1	1	0,84	1,9	1,6	∞
Liquid conductivity (meas.)	A	0.55	N	1	0,78	0,71	0,24	0,21	M-1
Liquid permittivity (meas.)	A	0.19	N	1	0,23	0,26	0,09	0,06	M
Liquid permittivity – temperature uncertainty	A	5.0	R	√3	0,78	0,71	1,4	1,1	∞
Liquid conductivity – temperature uncertainty	A	5.0	R	√3	0,23	0,26	1,2	0,8	∞
Combined standard uncertainty	$u_c = \sqrt{\sum_{i=1}^{23} c_i^2 u_i^2}$						10.57	10.32	
Expanded uncertainty (95 % conf. interval)	$u_e = 2u_c$		N		K=2		21.14	20.64	

3. MEASURE PROCEDURES

3.1. General description of test procedures

For the 802.11b/g SAR body tests, a communication link is set up with the test mode software for WIFI mode test. During the test, at the each test frequency channel, the EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest data rate.

Testing at higher data rates is not required when the maximum average output power is less than 0.25dB higher than those measured at the lowest data rate. SAR is not required for 802.11g channels when the maximum average output power is less than 0.25dB higher than that measured on the corresponding 802.11b channels. The same test procedure for 802.11a/n/ac mode

a communication link is establish and Low, Middle, High channel at the necessary position was tested for GSM,UMTS and E-UTRA mode.

4. SAR MEASUREMENTS SYSTEM

4.1. SAR Measurement Set-up

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

- (1) A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
- (2) A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage. It issues simulating liquid. The probe is equipped with an optical surface detector system.
- (3) A data acquisition electronic (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.
- (4) A unit to operate the optical surface detector which is connected to the EOC.
- (5) The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
- (6) The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. A computer operating Windows 2003.
- (7) DASY5 software and SEMCAD data evaluation software.
- (8) Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
- (9) The generic twin phantom enabling the testing of left-hand and right-hand usage.
- (10) The device holder for handheld mobile phones.
- (11) Tissue simulating liquid mixed according to the given recipes.
- (12) System validation dipoles allowing to validate the proper functioning of the system.

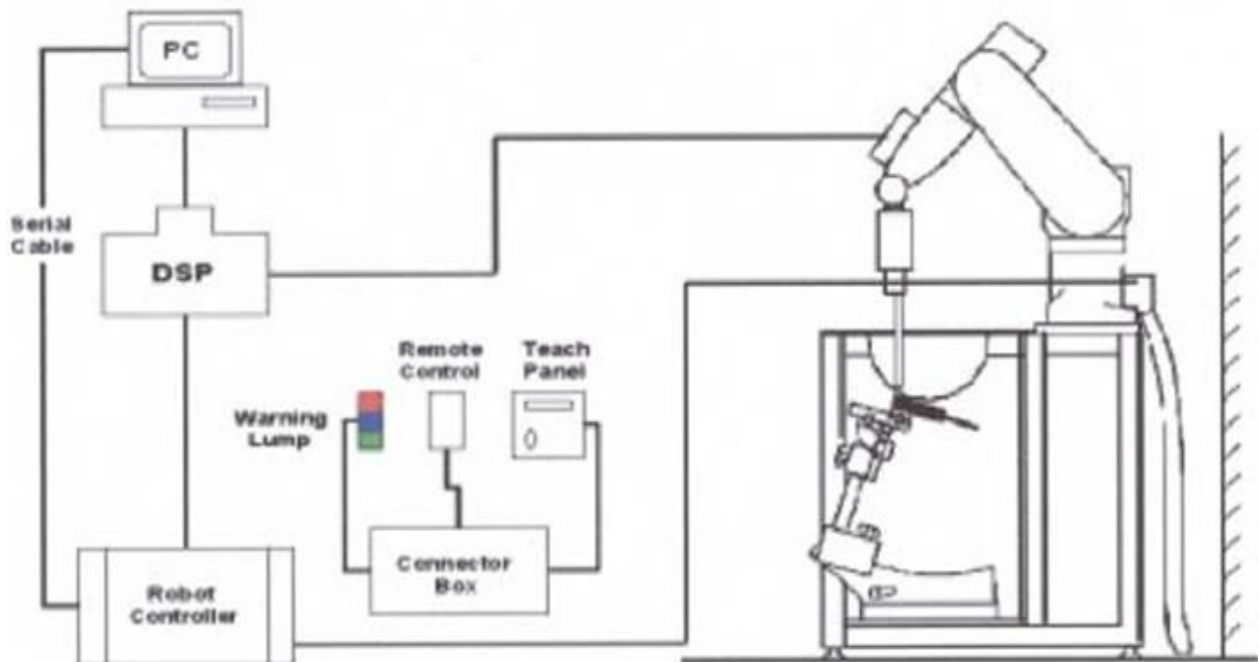


Figure 4.1 SAR Lab Test Measurement Set-up

4.2.ELI Phantom

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



Figure 4.2 Top View of 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 ± 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 bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters.

On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

The phantom can be used with the following tissue simulating liquids:

- *Water-sugar based liquid
- *Glycol based liquids

4.3. Device Holder for SAM Twin Phantom

The SAR in the Phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source in 5 mm distance, a positioning uncertainty of $\pm 0.5\text{mm}$ would produce a SAR uncertainty of $\pm 20\%$. An accurate device position is therefore crucial for accurate and repeatable measurement. The position in which the devices must be measured, are defined by the standards.

The DASY5 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 centers for both scales is the ear reference point (EPR).

Thus the device needs no repositioning when changing the angles.

The DASY5 device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon_r=3$ and loss tangent $\delta = 0.02$. 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.

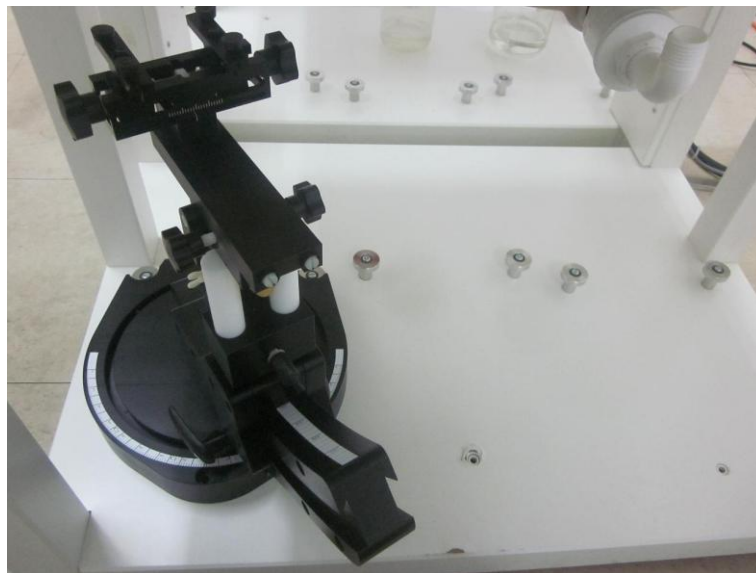


Figure 4.3 Device Holder

4.4.DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.



Figure 4.4 EX3DV4 E-field Probe

4.4.1. EX3DV4 Probe Specification

Construction	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 HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: PRS-T2 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). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

4.5.E-field Probe Calibration

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy was evaluated and found to be better than $\pm 0.25\text{dB}$. The sensitivity parameters (Norm X, Norm Y, Norm Z), the diode compression parameter (DCP) and the conversion factor (Conv F) of the probe are tested.

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz, and in a wave guide above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees.

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

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

Where: Δt = Exposure time (30 seconds),
C = Heat capacity of tissue (brain or muscle),
 ΔT = Temperature increase due to RF exposure.
Or

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

Where:
 σ = Simulated tissue conductivity,
 ρ = Tissue density (kg/m^3).

4.6. Scanning procedure

The DASY5 installation includes predefined files with recommended procedures for measurements and validation. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.

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. The indicated drift is mainly the variation of the EUT's output power and should vary max. $\pm 5\%$.

The "surface check" measurement tests the optical surface detection system of the DASY5 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above $\pm 0.1\text{mm}$). To prevent wrong results tests are only executed when the liquid is free of air bubbles.

The difference between the optical surface detection and the actual surface depends on the Probe and is specified with each probe. (It does not depend on the surface reflectivity or the probe angle to the surface within $\pm 30^\circ$.)

Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values before running a detailed measurement around the hot spot. Before starting the area scan a grid spacing of 15 mm x 15 mm is set. During the scan the distance of the probe to the phantom remains unchanged.

After finishing area scan, the field maxima within a range of 2 dB will be ascertained.

Zoom Scan

Zoom Scans are used to estimate the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The default Zoom Scan is done by 7x7x7 points within a cube whose base is centered around the maxima found in the preceding area scan.

Spatial Peak Detection

The procedure for spatial peak SAR evaluation has been implemented and can determine values of masses of 1g and 10g, as well as for user-specific masses. The DASY5 system allows evaluations that combine measured data and robot positions, such as:

- maximum search
- extrapolation
- boundary correction
- peak search for averaged SAR

During a maximum search, global and local maxima searches are automatically performed in 2-D after each Area Scan measurement with at least 6 measurement points. It is based on the evaluation of the local SAR gradient calculated by the Quadratic Shepard's method. The algorithm will find the global maximum and all local maxima within -2 dB of the global maxima for all SAR distributions.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. Several measurements at different distances are necessary for the extrapolation. Extrapolation routines require at least 10 measurement points in 3-D space. They are used in the Zoom Scan to obtain SAR values between the lowest measurement points and the inner phantom surface. The routine uses the modified Quadratic Sheppard's method for extrapolation. For a grid using 7x7x7 measurement points with 5mm resolution amounting to 343 measurement points, the uncertainty of the extrapolation routines is less than 1% for 1g and 10g cubes.

A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube 7x7x7 scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 5mm steps.

5. DATA STORAGE AND EVALUATION

5.1. Data Storage

The DASY5 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 ".DA4". 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], [mW/g], [mW/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.

5.2. Data Evaluation by SEMCAD

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

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2
 - Conversion factor ConvFi
 - Diode compression point Dcpi

Device parameters: - Frequency
 - Crest factor cf

Media parameters: - Conductivity
 - Density

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 DASY5 components. In the direct measuring mode of the millimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used. The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

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

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

U_i = input signal of channel i ($i = x, y, z$)

cf = crest factor of exciting field (DASY parameter)

dcpi = diode compression point (DASY parameter)

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

E-field probes: $E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$

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

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

$Norm_i$ = sensor sensitivity of channel i ($i = x, y, z$)

$ConvF$ = sensitivity enhancement in solution

a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

H_i = 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.

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

with

SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m

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

= equivalent tissue density in g/cm³

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

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

with P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m

6. SYSTEM CHECK

The manufacturer calibrates the probes annually. Dielectric parameters of the tissue simulates were measured every day using the dielectric probe kit and the network analyzer. A system check measurement was made following the determination of the dielectric parameters of the simulates, using the dipole validation kit. A power level of 250 mW was supplied to the dipole antenna, which was placed under the flat section of the twin SAM phantom. The system check results (dielectric parameters and SAR values) are given in the ANNEX A.

System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system ($\pm 10\%$).

System check is performed regularly on all frequency bands where tests are performed with the DASY5 system.

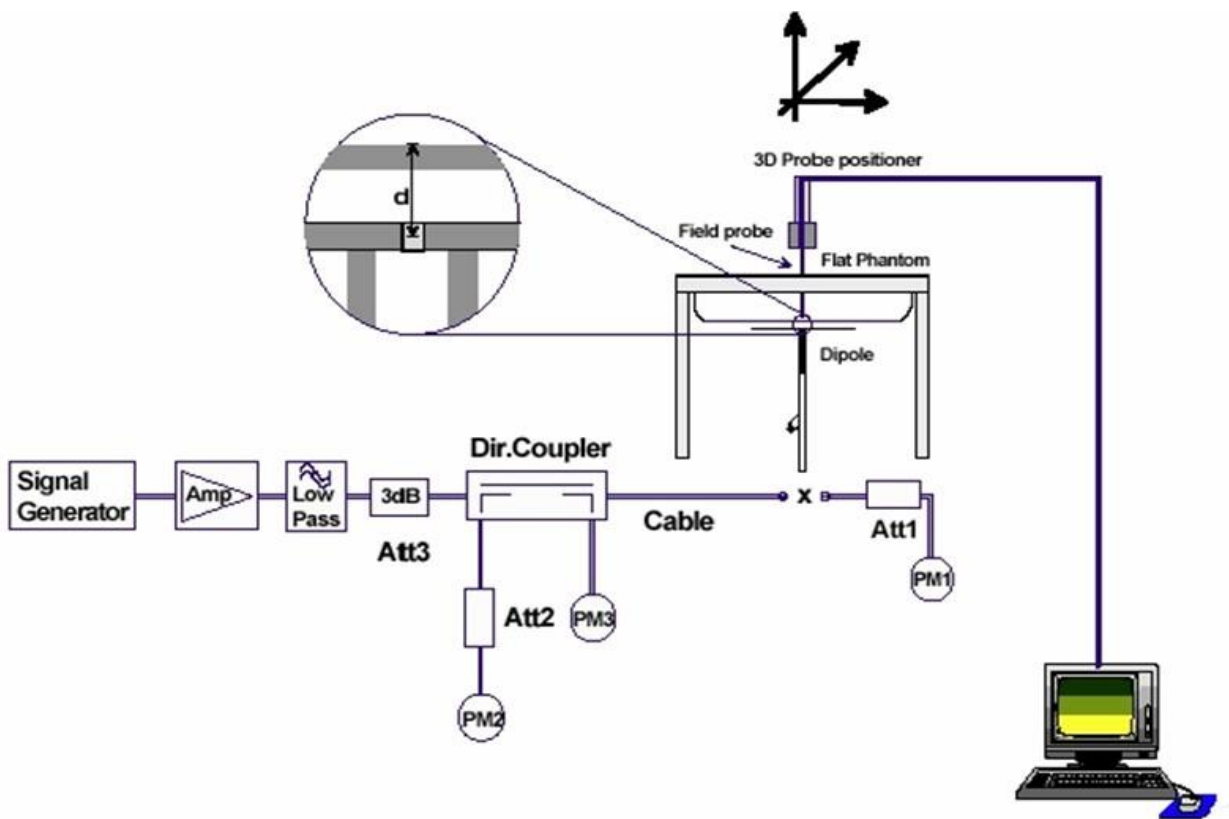


Figure 6.1: System Check Set-up

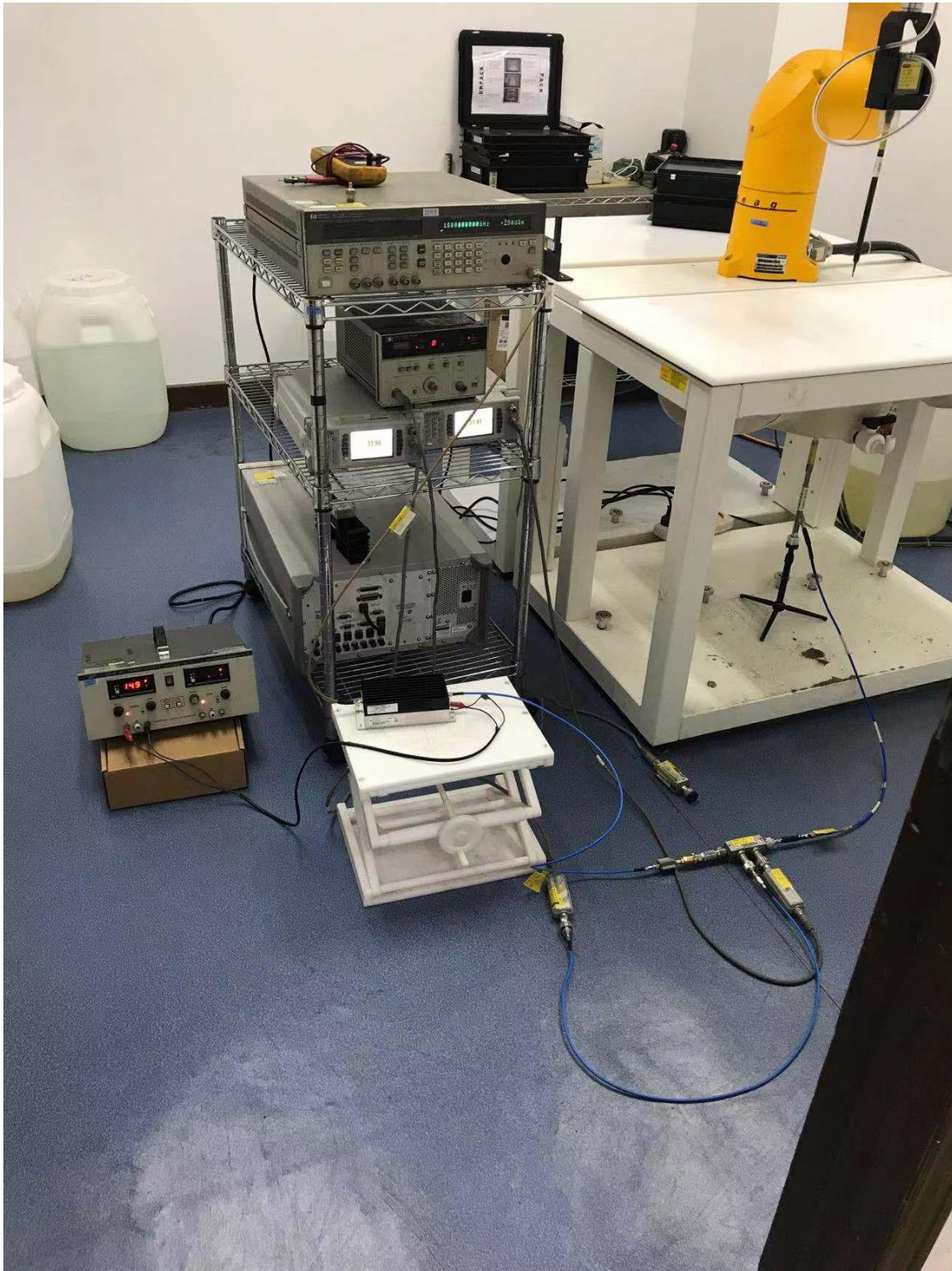


Figure 6.3: photos of system

7. TEST RESULTS

7.1. Output power BDR+EDR

Test Mode	Frequency[MHz]	Result[dBm]	Verdict
GFSK	2402	4.013	PASS
	2441	3.073	PASS
	2480	2.846	PASS
$\pi/4$ -DQPSK	2402	3.956	PASS
	2441	2.966	PASS
	2480	2.778	PASS
8-DPSK	2402	3.901	PASS
	2441	2.884	PASS
	2480	2.604	PASS

BLE

Test Mode	Frequency[MHz]	Result[dBm]	Verdict
BLE	2402	0.097	PASS
	2440	-0.808	PASS
	2480	-0.799	PASS

WIFI 2.4GHz

Test Mode	Channel	Result Avg [dBm]	Verdict
802.11b	2412	12.380	PASS
	2437	12.374	PASS
	2462	12.465	PASS
802.11g	2412	12.795	PASS
	2437	12.396	PASS
	2462	12.818	PASS
802.11n(HT20)	2412	12.596	PASS
	2437	12.236	PASS
	2462	12.431	PASS

WIFI 5GHz

Test Mode	Channel	Result[dBm]	Verdict
802.11a	5180	17.16	PASS
	5200	17.62	PASS
	5240	17.54	PASS
	5260	17.04	PASS
	5280	17.01	PASS
	5320	16.96	PASS
	5500	12.96	PASS
	5580	11.82	PASS
	5700	10.04	PASS
	5745	9.08	PASS
	5785	9.03	PASS
	5825	10.34	PASS
802.11n(HT20)	5180	17.09	PASS
	5200	17.52	PASS
	5240	17.35	PASS
	5260	16.91	PASS
	5280	16.94	PASS
	5320	16.89	PASS
	5500	12.88	PASS
	5580	11.72	PASS
	5700	9.95	PASS
	5745	9.00	PASS
	5785	8.79	PASS
	5825	9.78	PASS
802.11n(HT40)	5190	16.87	PASS
	5230	17.25	PASS
	5270	16.91	PASS
	5310	17.12	PASS
	5510	12.9	PASS
	5550	12.8	PASS
	5670	10.1	PASS
	5755	8.81	PASS
	5795	9.13	PASS
802.11ac(VHT20)	5180	16.99	PASS
	5200	17.41	PASS
	5240	17.67	PASS
	5260	17.23	PASS
	5280	17.15	PASS
	5320	17.03	PASS
	5500	13.35	PASS
	5580	11.79	PASS
	5700	9.43	PASS
	5745	8.88	PASS
	5785	8.62	PASS
	5825	9.88	PASS

802.11ac(VHT40)	5190	17.28	PASS
	5230	17.76	PASS
	5270	17.03	PASS
	5310	17.20	PASS
	5510	12.88	PASS
	5550	12.74	PASS
	5670	9.93	PASS
	5755	8.61	PASS
	5795	8.93	PASS
802.11ac(VHT80)	5210	17.89	PASS
	5290	17.68	PASS
	5530	13.17	PASS
	5610	11.37	PASS
	5775	9.22	PASS

Note: IEEE 802.11ac(VHT80) has the maximum output power, so choose IEEE 802.11 ac(VHT80) as the SAR test mode.

GSM850

GSM850		Conducted Power (dBm)		
		CH128	CH190	CH251
		824.20MHz	836.60MHz	848.80MHz
GPRS (GMSK)	1TXslot	33.54	33.51	33.56
	2TXslots	32.86	32.84	32.89
	3TXslots	31.17	31.14	31.17
	4TXslots	30.14	30.09	30.12
EGPRS (8PSK)	1TXslot	28.68	28.37	28.43
	2TXslots	27.56	27.35	27.41
	3TXslots	25.46	25.26	25.30
	4TXslots	24.39	24.24	24.23

GSM1900

GSM1900		Conducted Power (dBm)		
		CH512	CH661	CH810
		1850.2MHz	1880.0MHz	1909.8MHz
GPRS (GMSK)	1TXslot	30.65	30.90	31.03
	2TXslots	29.97	30.26	30.45
	3TXslots	28.30	28.58	28.89
	4TXslots	27.22	27.52	27.83
EGPRS (8PSK)	1TXslot	26.58	26.49	26.91
	2TXslots	25.45	25.51	25.94
	3TXslots	23.23	23.46	23.93
	4TXslots	21.99	22.10	22.69

WCDMA Band 2

WCDMA Band II		Conducted Power (dBm)		
		CH9262	CH9400	CH9538
		1852.40	1880.00	1907.60
RMC 12.2K		24.16	24.05	23.79
HSDPA	Subtest-1	23.20	23.08	22.86
	Subtest-2	22.72	22.72	22.57
	Subtest-3	22.69	22.63	22.39
	Subtest-4	22.73	22.60	22.36
HSUPA	Subtest-1	21.23	21.17	20.94
	Subtest-2	21.26	21.20	20.95
	Subtest-3	22.27	22.22	21.95
	Subtest-4	20.76	20.71	20.48
	Subtest-5	22.21	22.16	21.87

WCDMA Band 5

WCDMA Band V		Conducted Power (dBm)		
		CH4132	CH4182	CH4233
		826.40	836.40	846.60
RMC 12.2K		24.50	24.46	24.42
HSDPA	Subtest-1	23.54	23.45	23.44
	Subtest-2	23.00	22.93	22.95
	Subtest-3	23.01	22.99	22.91
	Subtest-4	23.00	22.93	22.90
HSUPA	Subtest-1	21.96	21.89	21.47
	Subtest-2	21.62	21.52	21.51
	Subtest-3	22.58	22.56	22.51
	Subtest-4	21.14	21.07	21.04
	Subtest-5	22.61	22.51	22.43

E-UTRA

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	23.40	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.10	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.57	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.25	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.38	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.12	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	23.41	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	22.20	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	23.41	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	22.22	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	23.47	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	22.23	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.38	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.27	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.27	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.96	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.35	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.13	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.24	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.97	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	23.38	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	22.08	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	23.38	PASS
Band2	1.4MHz	16QAM	18900	3RB#1	22.11	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	23.45	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	22.09	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.32	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.35	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.96	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.82	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	23.05	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.92	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.92	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.74	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	23.04	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	21.82	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	23.04	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	21.83	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	23.01	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	21.78	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.05	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.03	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.41	PASS
Band2	3MHz	16QAM	18615	1RB#0	22.41	PASS
Band2	3MHz	QPSK	18615	1RB#8	23.46	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.37	PASS
Band2	3MHz	QPSK	18615	1RB#14	23.43	PASS
Band2	3MHz	16QAM	18615	1RB#14	22.31	PASS
Band2	3MHz	QPSK	18615	8RB#0	22.42	PASS
Band2	3MHz	16QAM	18615	8RB#0	21.45	PASS
Band2	3MHz	QPSK	18615	8RB#4	22.45	PASS
Band2	3MHz	16QAM	18615	8RB#4	21.46	PASS
Band2	3MHz	QPSK	18615	8RB#7	22.46	PASS
Band2	3MHz	16QAM	18615	8RB#7	21.44	PASS
Band2	3MHz	QPSK	18615	15RB#0	22.41	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.45	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.50	PASS

Band2	3MHz	16QAM	18900	1RB#0	22.17	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.49	PASS
Band2	3MHz	16QAM	18900	1RB#8	22.15	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.44	PASS
Band2	3MHz	16QAM	18900	1RB#14	22.12	PASS
Band2	3MHz	QPSK	18900	8RB#0	22.38	PASS
Band2	3MHz	16QAM	18900	8RB#0	21.41	PASS
Band2	3MHz	QPSK	18900	8RB#4	22.37	PASS
Band2	3MHz	16QAM	18900	8RB#4	21.37	PASS
Band2	3MHz	QPSK	18900	8RB#7	22.39	PASS
Band2	3MHz	16QAM	18900	8RB#7	21.41	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.36	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.28	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.09	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.82	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.10	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.84	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.02	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.78	PASS
Band2	3MHz	QPSK	19185	8RB#0	22.11	PASS
Band2	3MHz	16QAM	19185	8RB#0	21.15	PASS
Band2	3MHz	QPSK	19185	8RB#4	22.09	PASS
Band2	3MHz	16QAM	19185	8RB#4	21.14	PASS
Band2	3MHz	QPSK	19185	8RB#7	22.08	PASS
Band2	3MHz	16QAM	19185	8RB#7	21.12	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.05	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.01	PASS
Band2	5MHz	QPSK	18625	1RB#0	23.25	PASS
Band2	5MHz	16QAM	18625	1RB#0	22.15	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.43	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.27	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.31	PASS
Band2	5MHz	16QAM	18625	1RB#24	22.15	PASS
Band2	5MHz	QPSK	18625	12RB#0	22.30	PASS
Band2	5MHz	16QAM	18625	12RB#0	21.31	PASS
Band2	5MHz	QPSK	18625	12RB#6	22.29	PASS
Band2	5MHz	16QAM	18625	12RB#6	21.27	PASS
Band2	5MHz	QPSK	18625	12RB#13	22.27	PASS
Band2	5MHz	16QAM	18625	12RB#13	21.23	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.28	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.29	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.21	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.17	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.34	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.30	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.17	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.23	PASS
Band2	5MHz	QPSK	18900	12RB#0	22.25	PASS
Band2	5MHz	16QAM	18900	12RB#0	21.24	PASS
Band2	5MHz	QPSK	18900	12RB#6	22.21	PASS
Band2	5MHz	16QAM	18900	12RB#6	21.29	PASS
Band2	5MHz	QPSK	18900	12RB#13	22.24	PASS
Band2	5MHz	16QAM	18900	12RB#13	21.32	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.26	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.26	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.98	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.84	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.09	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.93	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.90	PASS
Band2	5MHz	16QAM	19175	1RB#24	21.76	PASS

Band2	5MHz	QPSK	19175	12RB#0	21.86	PASS
Band2	5MHz	16QAM	19175	12RB#0	20.92	PASS
Band2	5MHz	QPSK	19175	12RB#6	21.92	PASS
Band2	5MHz	16QAM	19175	12RB#6	20.92	PASS
Band2	5MHz	QPSK	19175	12RB#13	21.90	PASS
Band2	5MHz	16QAM	19175	12RB#13	20.98	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.96	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.01	PASS
Band2	10MHz	QPSK	18650	1RB#0	23.28	PASS
Band2	10MHz	16QAM	18650	1RB#0	22.21	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.52	PASS
Band2	10MHz	16QAM	18650	1RB#24	22.42	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.31	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.20	PASS
Band2	10MHz	QPSK	18650	25RB#0	22.36	PASS
Band2	10MHz	16QAM	18650	25RB#0	21.34	PASS
Band2	10MHz	QPSK	18650	25RB#12	22.34	PASS
Band2	10MHz	16QAM	18650	25RB#12	21.41	PASS
Band2	10MHz	QPSK	18650	25RB#25	22.27	PASS
Band2	10MHz	16QAM	18650	25RB#25	21.25	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.34	PASS
Band2	10MHz	16QAM	18650	50RB#0	21.35	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.31	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.53	PASS
Band2	10MHz	16QAM	18900	1RB#24	22.19	PASS
Band2	10MHz	QPSK	18900	1RB#49	23.22	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.94	PASS
Band2	10MHz	QPSK	18900	25RB#0	22.26	PASS
Band2	10MHz	16QAM	18900	25RB#0	21.32	PASS
Band2	10MHz	QPSK	18900	25RB#12	22.26	PASS
Band2	10MHz	16QAM	18900	25RB#12	21.32	PASS
Band2	10MHz	QPSK	18900	25RB#25	22.31	PASS
Band2	10MHz	16QAM	18900	25RB#25	21.35	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.22	PASS
Band2	10MHz	16QAM	18900	50RB#0	21.30	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.99	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.77	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.14	PASS
Band2	10MHz	16QAM	19150	1RB#24	22.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.89	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.64	PASS
Band2	10MHz	QPSK	19150	25RB#0	21.92	PASS
Band2	10MHz	16QAM	19150	25RB#0	20.95	PASS
Band2	10MHz	QPSK	19150	25RB#12	21.91	PASS
Band2	10MHz	16QAM	19150	25RB#12	20.97	PASS
Band2	10MHz	QPSK	19150	25RB#25	22.04	PASS
Band2	10MHz	16QAM	19150	25RB#25	21.08	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.98	PASS
Band2	10MHz	16QAM	19150	50RB#0	21.03	PASS
Band2	15MHz	QPSK	18675	1RB#0	23.08	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.06	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.37	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.29	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.11	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.05	PASS
Band2	15MHz	QPSK	18675	38RB#0	22.42	PASS
Band2	15MHz	16QAM	18675	38RB#0	22.44	PASS
Band2	15MHz	QPSK	18675	38RB#18	22.45	PASS
Band2	15MHz	16QAM	18675	38RB#18	22.46	PASS
Band2	15MHz	QPSK	18675	38RB#37	22.42	PASS

Band2	15MHz	16QAM	18675	38RB#37	22.41	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.41	PASS
Band2	15MHz	16QAM	18675	75RB#0	21.33	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.07	PASS
Band2	15MHz	16QAM	18900	1RB#0	22.09	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.23	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.31	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.94	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.01	PASS
Band2	15MHz	QPSK	18900	38RB#0	22.32	PASS
Band2	15MHz	16QAM	18900	38RB#0	22.33	PASS
Band2	15MHz	QPSK	18900	38RB#18	22.33	PASS
Band2	15MHz	16QAM	18900	38RB#18	22.32	PASS
Band2	15MHz	QPSK	18900	38RB#37	22.31	PASS
Band2	15MHz	16QAM	18900	38RB#37	22.31	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.30	PASS
Band2	15MHz	16QAM	18900	75RB#0	21.28	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.86	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.60	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.11	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.82	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.71	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.49	PASS
Band2	15MHz	QPSK	19125	38RB#0	22.07	PASS
Band2	15MHz	16QAM	19125	38RB#0	22.05	PASS
Band2	15MHz	QPSK	19125	38RB#18	22.05	PASS
Band2	15MHz	16QAM	19125	38RB#18	22.02	PASS
Band2	15MHz	QPSK	19125	38RB#37	22.07	PASS
Band2	15MHz	16QAM	19125	38RB#37	22.10	PASS
Band2	15MHz	QPSK	19125	75RB#0	22.08	PASS
Band2	15MHz	16QAM	19125	75RB#0	21.06	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.18	PASS
Band2	20MHz	16QAM	18700	1RB#0	22.05	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.61	PASS
Band2	20MHz	16QAM	18700	1RB#49	22.33	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.11	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.96	PASS
Band2	20MHz	QPSK	18700	50RB#0	22.41	PASS
Band2	20MHz	16QAM	18700	50RB#0	21.37	PASS
Band2	20MHz	QPSK	18700	50RB#25	22.41	PASS
Band2	20MHz	16QAM	18700	50RB#25	21.46	PASS
Band2	20MHz	QPSK	18700	50RB#50	22.18	PASS
Band2	20MHz	16QAM	18700	50RB#50	21.19	PASS
Band2	20MHz	QPSK	18700	100RB#0	22.31	PASS
Band2	20MHz	16QAM	18700	100RB#0	21.29	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.13	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.21	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.38	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.51	PASS
Band2	20MHz	QPSK	18900	1RB#99	23.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.10	PASS
Band2	20MHz	QPSK	18900	50RB#0	22.21	PASS
Band2	20MHz	16QAM	18900	50RB#0	21.23	PASS
Band2	20MHz	QPSK	18900	50RB#25	22.26	PASS
Band2	20MHz	16QAM	18900	50RB#25	21.31	PASS
Band2	20MHz	QPSK	18900	50RB#50	22.20	PASS
Band2	20MHz	16QAM	18900	50RB#50	21.17	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.20	PASS
Band2	20MHz	16QAM	18900	100RB#0	21.15	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.91	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.75	PASS

Band2	20MHz	QPSK	19100	1RB#49	23.23	PASS
Band2	20MHz	16QAM	19100	1RB#49	22.09	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.75	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.56	PASS
Band2	20MHz	QPSK	19100	50RB#0	22.18	PASS
Band2	20MHz	16QAM	19100	50RB#0	21.30	PASS
Band2	20MHz	QPSK	19100	50RB#25	22.21	PASS
Band2	20MHz	16QAM	19100	50RB#25	21.26	PASS
Band2	20MHz	QPSK	19100	50RB#50	22.31	PASS
Band2	20MHz	16QAM	19100	50RB#50	21.38	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.26	PASS
Band2	20MHz	16QAM	19100	100RB#0	21.30	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.28	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.21	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.48	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.35	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.25	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.17	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.32	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.12	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.34	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.15	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.33	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.11	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.38	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.36	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.38	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.16	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.47	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.36	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.35	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.19	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.39	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.25	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.39	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.29	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.45	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.24	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.42	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.25	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.47	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.28	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.53	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.40	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.43	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.26	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.47	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.37	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.53	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.33	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.60	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	22.33	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.52	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.53	PASS

Band4	3MHz	QPSK	19965	1RB#0	23.34	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.36	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.36	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.41	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.34	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.38	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.43	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.40	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.39	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.41	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.40	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.40	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.35	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.37	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.46	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.33	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.48	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.44	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.28	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.47	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.43	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.46	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.45	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.46	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.41	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.44	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.38	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.53	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.26	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.56	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.38	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.53	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.36	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.62	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.58	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.56	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.61	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.61	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.61	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.58	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.52	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.26	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.20	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.33	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.27	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.27	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.16	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.30	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.18	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.26	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.25	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.30	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.24	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.31	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.27	PASS

Band4	5MHz	QPSK	20175	1RB#0	23.27	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.38	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.37	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.50	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.28	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.40	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.39	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.33	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.40	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.37	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.36	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.37	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.36	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.30	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.40	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.29	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.55	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.41	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.41	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.39	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.42	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.42	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.43	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.41	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.50	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.49	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.50	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.51	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.27	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.28	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.38	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.46	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.18	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.29	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.34	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.25	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.30	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.29	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.31	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.29	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.30	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.27	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.34	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.21	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.55	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.38	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.32	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.18	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.44	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.42	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.39	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.42	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.41	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.39	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.38	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.41	PASS

Band4	10MHz	QPSK	20350	1RB#0	23.29	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.10	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.55	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.38	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.42	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.25	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.48	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.46	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.46	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.48	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.54	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.49	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.50	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.44	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.08	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.12	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.26	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.33	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.07	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.22	PASS
Band4	15MHz	QPSK	20025	38RB#0	22.29	PASS
Band4	15MHz	16QAM	20025	38RB#0	22.27	PASS
Band4	15MHz	QPSK	20025	38RB#18	22.20	PASS
Band4	15MHz	16QAM	20025	38RB#18	22.28	PASS
Band4	15MHz	QPSK	20025	38RB#37	22.23	PASS
Band4	15MHz	16QAM	20025	38RB#37	22.25	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.22	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.17	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.08	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.26	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.31	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.46	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.14	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.25	PASS
Band4	15MHz	QPSK	20175	38RB#0	22.37	PASS
Band4	15MHz	16QAM	20175	38RB#0	22.33	PASS
Band4	15MHz	QPSK	20175	38RB#18	22.33	PASS
Band4	15MHz	16QAM	20175	38RB#18	22.34	PASS
Band4	15MHz	QPSK	20175	38RB#37	22.36	PASS
Band4	15MHz	16QAM	20175	38RB#37	22.32	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.33	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.21	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.98	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.49	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.25	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.25	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.11	PASS
Band4	15MHz	QPSK	20325	38RB#0	22.46	PASS
Band4	15MHz	16QAM	20325	38RB#0	22.41	PASS
Band4	15MHz	QPSK	20325	38RB#18	22.46	PASS
Band4	15MHz	16QAM	20325	38RB#18	22.46	PASS
Band4	15MHz	QPSK	20325	38RB#37	22.46	PASS
Band4	15MHz	16QAM	20325	38RB#37	22.46	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.35	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.38	PASS

Band4	20MHz	QPSK	20050	1RB#0	23.01	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.96	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.42	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.37	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.07	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.02	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.21	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.13	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.14	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.18	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.22	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.21	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.24	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.19	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.02	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.21	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.47	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.60	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.12	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.29	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.27	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.28	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.27	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.26	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.24	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.29	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.20	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.25	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.04	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.88	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.57	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.28	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.13	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.02	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.24	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.34	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.25	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.35	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.38	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.43	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.34	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.29	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	25.25	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	24.00	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	25.32	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	24.26	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	25.21	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	24.00	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	25.23	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	24.04	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	25.22	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	24.06	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	25.26	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	24.01	PASS

Band5	1.4MHz	QPSK	20407	6RB#0	24.17	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	23.05	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	25.08	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.81	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	25.19	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	24.05	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	25.07	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.78	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	25.12	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	23.88	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	25.13	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	23.90	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	25.24	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	23.86	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	24.17	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	23.09	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	25.04	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.87	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	25.05	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	24.05	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	25.03	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.87	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	25.09	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	23.84	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	25.08	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	23.87	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	25.06	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	23.81	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	24.14	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	23.06	PASS
Band5	3MHz	QPSK	20415	1RB#0	25.25	PASS
Band5	3MHz	16QAM	20415	1RB#0	24.29	PASS
Band5	3MHz	QPSK	20415	1RB#8	25.27	PASS
Band5	3MHz	16QAM	20415	1RB#8	24.28	PASS
Band5	3MHz	QPSK	20415	1RB#14	25.29	PASS
Band5	3MHz	16QAM	20415	1RB#14	24.28	PASS
Band5	3MHz	QPSK	20415	8RB#0	24.26	PASS
Band5	3MHz	16QAM	20415	8RB#0	23.27	PASS
Band5	3MHz	QPSK	20415	8RB#4	24.24	PASS
Band5	3MHz	16QAM	20415	8RB#4	23.30	PASS
Band5	3MHz	QPSK	20415	8RB#7	24.27	PASS
Band5	3MHz	16QAM	20415	8RB#7	23.27	PASS
Band5	3MHz	QPSK	20415	15RB#0	24.20	PASS
Band5	3MHz	16QAM	20415	15RB#0	23.27	PASS
Band5	3MHz	QPSK	20525	1RB#0	25.28	PASS
Band5	3MHz	16QAM	20525	1RB#0	24.07	PASS
Band5	3MHz	QPSK	20525	1RB#8	25.29	PASS
Band5	3MHz	16QAM	20525	1RB#8	24.03	PASS
Band5	3MHz	QPSK	20525	1RB#14	25.31	PASS
Band5	3MHz	16QAM	20525	1RB#14	24.01	PASS
Band5	3MHz	QPSK	20525	8RB#0	24.24	PASS
Band5	3MHz	16QAM	20525	8RB#0	23.15	PASS
Band5	3MHz	QPSK	20525	8RB#4	24.23	PASS
Band5	3MHz	16QAM	20525	8RB#4	23.17	PASS
Band5	3MHz	QPSK	20525	8RB#7	24.21	PASS
Band5	3MHz	16QAM	20525	8RB#7	23.09	PASS
Band5	3MHz	QPSK	20525	15RB#0	24.17	PASS
Band5	3MHz	16QAM	20525	15RB#0	23.10	PASS
Band5	3MHz	QPSK	20635	1RB#0	25.17	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.90	PASS
Band5	3MHz	QPSK	20635	1RB#8	25.16	PASS

Band5	3MHz	16QAM	20635	1RB#8	23.91	PASS
Band5	3MHz	QPSK	20635	1RB#14	25.17	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.97	PASS
Band5	3MHz	QPSK	20635	8RB#0	24.19	PASS
Band5	3MHz	16QAM	20635	8RB#0	23.14	PASS
Band5	3MHz	QPSK	20635	8RB#4	24.21	PASS
Band5	3MHz	16QAM	20635	8RB#4	23.12	PASS
Band5	3MHz	QPSK	20635	8RB#7	24.19	PASS
Band5	3MHz	16QAM	20635	8RB#7	23.08	PASS
Band5	3MHz	QPSK	20635	15RB#0	24.11	PASS
Band5	3MHz	16QAM	20635	15RB#0	23.02	PASS
Band5	5MHz	QPSK	20425	1RB#0	25.17	PASS
Band5	5MHz	16QAM	20425	1RB#0	24.08	PASS
Band5	5MHz	QPSK	20425	1RB#12	25.35	PASS
Band5	5MHz	16QAM	20425	1RB#12	24.19	PASS
Band5	5MHz	QPSK	20425	1RB#24	25.20	PASS
Band5	5MHz	16QAM	20425	1RB#24	24.12	PASS
Band5	5MHz	QPSK	20425	12RB#0	24.12	PASS
Band5	5MHz	16QAM	20425	12RB#0	23.12	PASS
Band5	5MHz	QPSK	20425	12RB#6	24.16	PASS
Band5	5MHz	16QAM	20425	12RB#6	23.09	PASS
Band5	5MHz	QPSK	20425	12RB#13	24.22	PASS
Band5	5MHz	16QAM	20425	12RB#13	23.15	PASS
Band5	5MHz	QPSK	20425	25RB#0	24.21	PASS
Band5	5MHz	16QAM	20425	25RB#0	23.16	PASS
Band5	5MHz	QPSK	20525	1RB#0	25.06	PASS
Band5	5MHz	16QAM	20525	1RB#0	24.07	PASS
Band5	5MHz	QPSK	20525	1RB#12	25.16	PASS
Band5	5MHz	16QAM	20525	1RB#12	24.19	PASS
Band5	5MHz	QPSK	20525	1RB#24	25.05	PASS
Band5	5MHz	16QAM	20525	1RB#24	24.04	PASS
Band5	5MHz	QPSK	20525	12RB#0	24.13	PASS
Band5	5MHz	16QAM	20525	12RB#0	23.16	PASS
Band5	5MHz	QPSK	20525	12RB#6	24.15	PASS
Band5	5MHz	16QAM	20525	12RB#6	23.12	PASS
Band5	5MHz	QPSK	20525	12RB#13	24.04	PASS
Band5	5MHz	16QAM	20525	12RB#13	23.01	PASS
Band5	5MHz	QPSK	20525	25RB#0	24.09	PASS
Band5	5MHz	16QAM	20525	25RB#0	23.07	PASS
Band5	5MHz	QPSK	20625	1RB#0	25.09	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.95	PASS
Band5	5MHz	QPSK	20625	1RB#12	25.19	PASS
Band5	5MHz	16QAM	20625	1RB#12	24.00	PASS
Band5	5MHz	QPSK	20625	1RB#24	25.04	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.88	PASS
Band5	5MHz	QPSK	20625	12RB#0	24.01	PASS
Band5	5MHz	16QAM	20625	12RB#0	23.00	PASS
Band5	5MHz	QPSK	20625	12RB#6	24.02	PASS
Band5	5MHz	16QAM	20625	12RB#6	22.97	PASS
Band5	5MHz	QPSK	20625	12RB#13	23.90	PASS
Band5	5MHz	16QAM	20625	12RB#13	22.84	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.96	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.94	PASS
Band5	10MHz	QPSK	20450	1RB#0	25.17	PASS
Band5	10MHz	16QAM	20450	1RB#0	24.17	PASS
Band5	10MHz	QPSK	20450	1RB#24	25.34	PASS
Band5	10MHz	16QAM	20450	1RB#24	24.30	PASS
Band5	10MHz	QPSK	20450	1RB#49	25.11	PASS
Band5	10MHz	16QAM	20450	1RB#49	24.08	PASS
Band5	10MHz	QPSK	20450	25RB#0	24.17	PASS
Band5	10MHz	16QAM	20450	25RB#0	23.14	PASS

Band5	10MHz	QPSK	20450	25RB#12	24.18	PASS
Band5	10MHz	16QAM	20450	25RB#12	23.18	PASS
Band5	10MHz	QPSK	20450	25RB#25	24.22	PASS
Band5	10MHz	16QAM	20450	25RB#25	23.21	PASS
Band5	10MHz	QPSK	20450	50RB#0	24.21	PASS
Band5	10MHz	16QAM	20450	50RB#0	23.17	PASS
Band5	10MHz	QPSK	20525	1RB#0	25.23	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.96	PASS
Band5	10MHz	QPSK	20525	1RB#24	25.39	PASS
Band5	10MHz	16QAM	20525	1RB#24	24.07	PASS
Band5	10MHz	QPSK	20525	1RB#49	25.12	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.86	PASS
Band5	10MHz	QPSK	20525	25RB#0	24.25	PASS
Band5	10MHz	16QAM	20525	25RB#0	23.22	PASS
Band5	10MHz	QPSK	20525	25RB#12	24.26	PASS
Band5	10MHz	16QAM	20525	25RB#12	23.23	PASS
Band5	10MHz	QPSK	20525	25RB#25	24.01	PASS
Band5	10MHz	16QAM	20525	25RB#25	23.06	PASS
Band5	10MHz	QPSK	20525	50RB#0	24.15	PASS
Band5	10MHz	16QAM	20525	50RB#0	23.16	PASS
Band5	10MHz	QPSK	20600	1RB#0	25.09	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.89	PASS
Band5	10MHz	QPSK	20600	1RB#24	25.33	PASS
Band5	10MHz	16QAM	20600	1RB#24	24.15	PASS
Band5	10MHz	QPSK	20600	1RB#49	25.05	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.82	PASS
Band5	10MHz	QPSK	20600	25RB#0	24.11	PASS
Band5	10MHz	16QAM	20600	25RB#0	23.11	PASS
Band5	10MHz	QPSK	20600	25RB#12	24.11	PASS
Band5	10MHz	16QAM	20600	25RB#12	23.12	PASS
Band5	10MHz	QPSK	20600	25RB#25	23.96	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.96	PASS
Band5	10MHz	QPSK	20600	50RB#0	24.07	PASS
Band5	10MHz	16QAM	20600	50RB#0	23.06	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.82	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.61	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.93	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.76	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.79	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.57	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.73	PASS
Band7	5MHz	16QAM	20775	12RB#0	21.63	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.74	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.61	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.73	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.63	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.72	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.68	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.82	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.79	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.93	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.88	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.80	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.76	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.79	PASS
Band7	5MHz	16QAM	21100	12RB#0	21.77	PASS
Band7	5MHz	QPSK	21100	12RB#6	22.79	PASS
Band7	5MHz	16QAM	21100	12RB#6	21.75	PASS

Band7	5MHz	QPSK	21100	12RB#13	22.85	PASS
Band7	5MHz	16QAM	21100	12RB#13	21.82	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.83	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.78	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.86	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.68	PASS
Band7	5MHz	QPSK	21425	1RB#12	24.02	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.82	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.91	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.65	PASS
Band7	5MHz	QPSK	21425	12RB#0	22.89	PASS
Band7	5MHz	16QAM	21425	12RB#0	21.79	PASS
Band7	5MHz	QPSK	21425	12RB#6	22.87	PASS
Band7	5MHz	16QAM	21425	12RB#6	21.77	PASS
Band7	5MHz	QPSK	21425	12RB#13	22.86	PASS
Band7	5MHz	16QAM	21425	12RB#13	21.79	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.85	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.82	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.75	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.67	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.98	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.79	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.77	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.62	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.80	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.68	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.78	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.68	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.67	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.60	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.71	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.61	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.90	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.64	PASS
Band7	10MHz	QPSK	21100	1RB#24	24.13	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.76	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.93	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.57	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.83	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.83	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.80	PASS
Band7	10MHz	16QAM	21100	25RB#12	21.84	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.84	PASS
Band7	10MHz	16QAM	21100	25RB#25	21.82	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.81	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.80	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.84	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.60	PASS
Band7	10MHz	QPSK	21400	1RB#24	24.10	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.82	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.87	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.57	PASS
Band7	10MHz	QPSK	21400	25RB#0	22.86	PASS
Band7	10MHz	16QAM	21400	25RB#0	21.85	PASS
Band7	10MHz	QPSK	21400	25RB#12	22.87	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.84	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.91	PASS
Band7	10MHz	16QAM	21400	25RB#25	21.90	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.87	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.86	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.64	PASS

Band7	15MHz	16QAM	20825	1RB#0	22.54	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.87	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.74	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.58	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.57	PASS
Band7	15MHz	QPSK	20825	38RB#0	22.86	PASS
Band7	15MHz	16QAM	20825	38RB#0	22.86	PASS
Band7	15MHz	QPSK	20825	38RB#18	22.85	PASS
Band7	15MHz	16QAM	20825	38RB#18	22.86	PASS
Band7	15MHz	QPSK	20825	38RB#37	22.86	PASS
Band7	15MHz	16QAM	20825	38RB#37	22.87	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.87	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.71	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.65	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.74	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.88	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.89	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.59	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.61	PASS
Band7	15MHz	QPSK	21100	38RB#0	22.86	PASS
Band7	15MHz	16QAM	21100	38RB#0	22.88	PASS
Band7	15MHz	QPSK	21100	38RB#18	22.87	PASS
Band7	15MHz	16QAM	21100	38RB#18	22.88	PASS
Band7	15MHz	QPSK	21100	38RB#37	22.89	PASS
Band7	15MHz	16QAM	21100	38RB#37	22.89	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.87	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.78	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.67	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.45	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.91	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.71	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.73	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.44	PASS
Band7	15MHz	QPSK	21375	38RB#0	22.92	PASS
Band7	15MHz	16QAM	21375	38RB#0	22.91	PASS
Band7	15MHz	QPSK	21375	38RB#18	22.92	PASS
Band7	15MHz	16QAM	21375	38RB#18	22.98	PASS
Band7	15MHz	QPSK	21375	38RB#37	22.93	PASS
Band7	15MHz	16QAM	21375	38RB#37	22.92	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.88	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.85	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.62	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.36	PASS
Band7	20MHz	QPSK	20850	1RB#49	24.05	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.78	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.63	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.45	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.79	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.72	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.79	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.68	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.62	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.59	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.69	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.69	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.77	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.75	PASS
Band7	20MHz	QPSK	21100	1RB#49	24.11	PASS
Band7	20MHz	16QAM	21100	1RB#49	23.08	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.74	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.57	PASS

Band7	20MHz	QPSK	21100	50RB#0	22.65	PASS
Band7	20MHz	16QAM	21100	50RB#0	21.61	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.64	PASS
Band7	20MHz	16QAM	21100	50RB#25	21.66	PASS
Band7	20MHz	QPSK	21100	50RB#50	22.71	PASS
Band7	20MHz	16QAM	21100	50RB#50	21.64	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.63	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.65	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.59	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.37	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.98	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.84	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.56	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.42	PASS
Band7	20MHz	QPSK	21350	50RB#0	22.83	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.80	PASS
Band7	20MHz	QPSK	21350	50RB#25	22.80	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.85	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.80	PASS
Band7	20MHz	16QAM	21350	50RB#50	21.81	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.82	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.82	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	24.95	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.65	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.94	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.85	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.93	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.65	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	24.91	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	23.71	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	24.92	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	23.74	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	24.98	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	23.73	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.85	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.70	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	24.97	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.67	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.98	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.74	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	24.94	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.63	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	25.00	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	23.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	25.03	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	23.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	24.99	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	23.74	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.95	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.88	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.83	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.87	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	24.90	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.98	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	24.74	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.78	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	24.92	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	23.63	PASS

Band12	1.4MHz	QPSK	23173	3RB#1	24.98	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	23.52	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	24.93	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	23.40	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	23.96	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.97	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.99	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.90	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.98	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.99	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.98	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.97	PASS
Band12	3MHz	QPSK	23025	8RB#0	24.04	PASS
Band12	3MHz	16QAM	23025	8RB#0	22.97	PASS
Band12	3MHz	QPSK	23025	8RB#4	24.03	PASS
Band12	3MHz	16QAM	23025	8RB#4	23.02	PASS
Band12	3MHz	QPSK	23025	8RB#7	24.02	PASS
Band12	3MHz	16QAM	23025	8RB#7	22.97	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.96	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.99	PASS
Band12	3MHz	QPSK	23095	1RB#0	25.07	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.97	PASS
Band12	3MHz	QPSK	23095	1RB#8	25.11	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.93	PASS
Band12	3MHz	QPSK	23095	1RB#14	25.09	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.81	PASS
Band12	3MHz	QPSK	23095	8RB#0	23.96	PASS
Band12	3MHz	16QAM	23095	8RB#0	22.99	PASS
Band12	3MHz	QPSK	23095	8RB#4	24.01	PASS
Band12	3MHz	16QAM	23095	8RB#4	23.01	PASS
Band12	3MHz	QPSK	23095	8RB#7	24.01	PASS
Band12	3MHz	16QAM	23095	8RB#7	23.06	PASS
Band12	3MHz	QPSK	23095	15RB#0	24.07	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.95	PASS
Band12	3MHz	QPSK	23165	1RB#0	25.05	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.87	PASS
Band12	3MHz	QPSK	23165	1RB#8	25.01	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.87	PASS
Band12	3MHz	QPSK	23165	1RB#14	25.00	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.86	PASS
Band12	3MHz	QPSK	23165	8RB#0	24.10	PASS
Band12	3MHz	16QAM	23165	8RB#0	23.09	PASS
Band12	3MHz	QPSK	23165	8RB#4	24.12	PASS
Band12	3MHz	16QAM	23165	8RB#4	23.11	PASS
Band12	3MHz	QPSK	23165	8RB#7	24.09	PASS
Band12	3MHz	16QAM	23165	8RB#7	23.07	PASS
Band12	3MHz	QPSK	23165	15RB#0	24.07	PASS
Band12	3MHz	16QAM	23165	15RB#0	23.00	PASS
Band12	5MHz	QPSK	23035	1RB#0	24.85	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.74	PASS
Band12	5MHz	QPSK	23035	1RB#12	25.01	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.90	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.98	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.84	PASS
Band12	5MHz	QPSK	23035	12RB#0	24.00	PASS
Band12	5MHz	16QAM	23035	12RB#0	22.96	PASS
Band12	5MHz	QPSK	23035	12RB#6	24.05	PASS
Band12	5MHz	16QAM	23035	12RB#6	22.98	PASS
Band12	5MHz	QPSK	23035	12RB#13	23.84	PASS
Band12	5MHz	16QAM	23035	12RB#13	22.80	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.96	PASS

Band12	5MHz	16QAM	23035	25RB#0	22.95	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.91	PASS
Band12	5MHz	16QAM	23095	1RB#0	24.00	PASS
Band12	5MHz	QPSK	23095	1RB#12	25.05	PASS
Band12	5MHz	16QAM	23095	1RB#12	24.06	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.88	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.89	PASS
Band12	5MHz	QPSK	23095	12RB#0	23.91	PASS
Band12	5MHz	16QAM	23095	12RB#0	22.91	PASS
Band12	5MHz	QPSK	23095	12RB#6	23.88	PASS
Band12	5MHz	16QAM	23095	12RB#6	22.85	PASS
Band12	5MHz	QPSK	23095	12RB#13	24.02	PASS
Band12	5MHz	16QAM	23095	12RB#13	23.06	PASS
Band12	5MHz	QPSK	23095	25RB#0	24.02	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.93	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.96	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.81	PASS
Band12	5MHz	QPSK	23155	1RB#12	25.00	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.98	PASS
Band12	5MHz	QPSK	23155	1RB#24	24.81	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.82	PASS
Band12	5MHz	QPSK	23155	12RB#0	24.05	PASS
Band12	5MHz	16QAM	23155	12RB#0	23.11	PASS
Band12	5MHz	QPSK	23155	12RB#6	24.10	PASS
Band12	5MHz	16QAM	23155	12RB#6	23.11	PASS
Band12	5MHz	QPSK	23155	12RB#13	24.03	PASS
Band12	5MHz	16QAM	23155	12RB#13	23.00	PASS
Band12	5MHz	QPSK	23155	25RB#0	24.05	PASS
Band12	5MHz	16QAM	23155	25RB#0	23.10	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.86	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.81	PASS
Band12	10MHz	QPSK	23060	1RB#24	25.11	PASS
Band12	10MHz	16QAM	23060	1RB#24	24.21	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.85	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.94	PASS
Band12	10MHz	QPSK	23060	25RB#0	24.07	PASS
Band12	10MHz	16QAM	23060	25RB#0	23.11	PASS
Band12	10MHz	QPSK	23060	25RB#12	24.14	PASS
Band12	10MHz	16QAM	23060	25RB#12	23.12	PASS
Band12	10MHz	QPSK	23060	25RB#25	24.21	PASS
Band12	10MHz	16QAM	23060	25RB#25	23.19	PASS
Band12	10MHz	QPSK	23060	50RB#0	24.16	PASS
Band12	10MHz	16QAM	23060	50RB#0	23.13	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.98	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.84	PASS
Band12	10MHz	QPSK	23095	1RB#24	25.00	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.98	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.96	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.78	PASS
Band12	10MHz	QPSK	23095	25RB#0	23.86	PASS
Band12	10MHz	16QAM	23095	25RB#0	22.90	PASS
Band12	10MHz	QPSK	23095	25RB#12	23.82	PASS
Band12	10MHz	16QAM	23095	25RB#12	22.88	PASS
Band12	10MHz	QPSK	23095	25RB#25	23.91	PASS
Band12	10MHz	16QAM	23095	25RB#25	22.95	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.88	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.94	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.98	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.70	PASS
Band12	10MHz	QPSK	23130	1RB#24	25.18	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.92	PASS

Band12	10MHz	QPSK	23130	1RB#49	24.93	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.74	PASS
Band12	10MHz	QPSK	23130	25RB#0	23.93	PASS
Band12	10MHz	16QAM	23130	25RB#0	22.95	PASS
Band12	10MHz	QPSK	23130	25RB#12	23.96	PASS
Band12	10MHz	16QAM	23130	25RB#12	22.91	PASS
Band12	10MHz	QPSK	23130	25RB#25	23.92	PASS
Band12	10MHz	16QAM	23130	25RB#25	22.96	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.93	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.87	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	24.90	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.80	PASS
Band17	5MHz	QPSK	23755	1RB#12	25.06	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.98	PASS
Band17	5MHz	QPSK	23755	1RB#24	24.88	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.79	PASS
Band17	5MHz	QPSK	23755	12RB#0	23.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	22.73	PASS
Band17	5MHz	QPSK	23755	12RB#6	23.73	PASS
Band17	5MHz	16QAM	23755	12RB#6	22.72	PASS
Band17	5MHz	QPSK	23755	12RB#13	24.02	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.97	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.87	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.92	PASS
Band17	5MHz	QPSK	23790	1RB#0	24.83	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.91	PASS
Band17	5MHz	QPSK	23790	1RB#12	25.00	PASS
Band17	5MHz	16QAM	23790	1RB#12	24.02	PASS
Band17	5MHz	QPSK	23790	1RB#24	24.90	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.89	PASS
Band17	5MHz	QPSK	23790	12RB#0	23.81	PASS
Band17	5MHz	16QAM	23790	12RB#0	22.80	PASS
Band17	5MHz	QPSK	23790	12RB#6	23.83	PASS
Band17	5MHz	16QAM	23790	12RB#6	22.81	PASS
Band17	5MHz	QPSK	23790	12RB#13	23.75	PASS
Band17	5MHz	16QAM	23790	12RB#13	22.74	PASS
Band17	5MHz	QPSK	23790	25RB#0	23.84	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.82	PASS
Band17	5MHz	QPSK	23825	1RB#0	24.94	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.81	PASS
Band17	5MHz	QPSK	23825	1RB#12	25.00	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.97	PASS
Band17	5MHz	QPSK	23825	1RB#24	24.89	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.84	PASS
Band17	5MHz	QPSK	23825	12RB#0	24.08	PASS
Band17	5MHz	16QAM	23825	12RB#0	23.06	PASS
Band17	5MHz	QPSK	23825	12RB#6	24.10	PASS
Band17	5MHz	16QAM	23825	12RB#6	23.04	PASS
Band17	5MHz	QPSK	23825	12RB#13	24.02	PASS
Band17	5MHz	16QAM	23825	12RB#13	22.95	PASS
Band17	5MHz	QPSK	23825	25RB#0	24.08	PASS
Band17	5MHz	16QAM	23825	25RB#0	23.03	PASS
Band17	10MHz	QPSK	23780	1RB#0	24.90	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.89	PASS
Band17	10MHz	QPSK	23780	1RB#24	25.10	PASS
Band17	10MHz	16QAM	23780	1RB#24	24.07	PASS
Band17	10MHz	QPSK	23780	1RB#49	24.92	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.93	PASS

Band17	10MHz	QPSK	23780	25RB#0	23.73	PASS
Band17	10MHz	16QAM	23780	25RB#0	22.74	PASS
Band17	10MHz	QPSK	23780	25RB#12	23.78	PASS
Band17	10MHz	16QAM	23780	25RB#12	22.72	PASS
Band17	10MHz	QPSK	23780	25RB#25	23.69	PASS
Band17	10MHz	16QAM	23780	25RB#25	22.67	PASS
Band17	10MHz	QPSK	23780	50RB#0	23.71	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	24.94	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.84	PASS
Band17	10MHz	QPSK	23790	1RB#24	25.03	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.94	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.89	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.84	PASS
Band17	10MHz	QPSK	23790	25RB#0	23.73	PASS
Band17	10MHz	16QAM	23790	25RB#0	22.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	23.79	PASS
Band17	10MHz	16QAM	23790	25RB#12	22.78	PASS
Band17	10MHz	QPSK	23790	25RB#25	23.76	PASS
Band17	10MHz	16QAM	23790	25RB#25	22.79	PASS
Band17	10MHz	QPSK	23790	50RB#0	23.76	PASS
Band17	10MHz	16QAM	23790	50RB#0	22.81	PASS
Band17	10MHz	QPSK	23800	1RB#0	24.95	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.69	PASS
Band17	10MHz	QPSK	23800	1RB#24	25.10	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.84	PASS
Band17	10MHz	QPSK	23800	1RB#49	24.92	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.75	PASS
Band17	10MHz	QPSK	23800	25RB#0	23.89	PASS
Band17	10MHz	16QAM	23800	25RB#0	22.90	PASS
Band17	10MHz	QPSK	23800	25RB#12	23.88	PASS
Band17	10MHz	16QAM	23800	25RB#12	22.90	PASS
Band17	10MHz	QPSK	23800	25RB#25	23.87	PASS
Band17	10MHz	16QAM	23800	25RB#25	22.88	PASS
Band17	10MHz	QPSK	23800	50RB#0	23.87	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.87	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	22.94	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.83	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.12	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	22.85	PASS
Band41	5MHz	16QAM	39675	1RB#24	21.83	PASS
Band41	5MHz	QPSK	39675	12RB#0	21.82	PASS
Band41	5MHz	16QAM	39675	12RB#0	20.71	PASS
Band41	5MHz	QPSK	39675	12RB#6	21.90	PASS
Band41	5MHz	16QAM	39675	12RB#6	20.74	PASS
Band41	5MHz	QPSK	39675	12RB#13	21.88	PASS
Band41	5MHz	16QAM	39675	12RB#13	20.78	PASS
Band41	5MHz	QPSK	39675	25RB#0	21.79	PASS
Band41	5MHz	16QAM	39675	25RB#0	20.76	PASS
Band41	5MHz	QPSK	40620	1RB#0	22.80	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.12	PASS
Band41	5MHz	QPSK	40620	1RB#12	22.92	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.24	PASS
Band41	5MHz	QPSK	40620	1RB#24	22.79	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.10	PASS
Band41	5MHz	QPSK	40620	12RB#0	21.89	PASS
Band41	5MHz	16QAM	40620	12RB#0	20.89	PASS

Band41	5MHz	QPSK	40620	12RB#6	21.87	PASS
Band41	5MHz	16QAM	40620	12RB#6	20.82	PASS
Band41	5MHz	QPSK	40620	12RB#13	21.86	PASS
Band41	5MHz	16QAM	40620	12RB#13	20.80	PASS
Band41	5MHz	QPSK	40620	25RB#0	21.82	PASS
Band41	5MHz	16QAM	40620	25RB#0	20.87	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.27	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.63	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.48	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.76	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.30	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.66	PASS
Band41	5MHz	QPSK	41565	12RB#0	22.44	PASS
Band41	5MHz	16QAM	41565	12RB#0	21.47	PASS
Band41	5MHz	QPSK	41565	12RB#6	22.46	PASS
Band41	5MHz	16QAM	41565	12RB#6	21.47	PASS
Band41	5MHz	QPSK	41565	12RB#13	22.44	PASS
Band41	5MHz	16QAM	41565	12RB#13	21.54	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.52	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.48	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.91	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.01	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.18	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.28	PASS
Band41	10MHz	QPSK	39700	1RB#49	22.90	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.16	PASS
Band41	10MHz	QPSK	39700	25RB#0	21.95	PASS
Band41	10MHz	16QAM	39700	25RB#0	20.94	PASS
Band41	10MHz	QPSK	39700	25RB#12	21.94	PASS
Band41	10MHz	16QAM	39700	25RB#12	20.95	PASS
Band41	10MHz	QPSK	39700	25RB#25	21.87	PASS
Band41	10MHz	16QAM	39700	25RB#25	20.95	PASS
Band41	10MHz	QPSK	39700	50RB#0	21.76	PASS
Band41	10MHz	16QAM	39700	50RB#0	20.82	PASS
Band41	10MHz	QPSK	40620	1RB#0	22.88	PASS
Band41	10MHz	16QAM	40620	1RB#0	21.76	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.14	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.05	PASS
Band41	10MHz	QPSK	40620	1RB#49	22.79	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.14	PASS
Band41	10MHz	QPSK	40620	25RB#0	22.00	PASS
Band41	10MHz	16QAM	40620	25RB#0	21.06	PASS
Band41	10MHz	QPSK	40620	25RB#12	21.99	PASS
Band41	10MHz	16QAM	40620	25RB#12	21.04	PASS
Band41	10MHz	QPSK	40620	25RB#25	21.86	PASS
Band41	10MHz	16QAM	40620	25RB#25	20.96	PASS
Band41	10MHz	QPSK	40620	50RB#0	21.87	PASS
Band41	10MHz	16QAM	40620	50RB#0	20.80	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.34	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.21	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.49	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.60	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.43	PASS
Band41	10MHz	16QAM	41540	1RB#49	22.34	PASS
Band41	10MHz	QPSK	41540	25RB#0	22.45	PASS
Band41	10MHz	16QAM	41540	25RB#0	21.47	PASS
Band41	10MHz	QPSK	41540	25RB#12	22.42	PASS
Band41	10MHz	16QAM	41540	25RB#12	21.47	PASS
Band41	10MHz	QPSK	41540	25RB#25	22.50	PASS
Band41	10MHz	16QAM	41540	25RB#25	21.51	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.43	PASS

Band41	10MHz	16QAM	41540	50RB#0	21.38	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.02	PASS
Band41	15MHz	16QAM	39725	1RB#0	20.98	PASS
Band41	15MHz	QPSK	39725	1RB#38	22.20	PASS
Band41	15MHz	16QAM	39725	1RB#38	21.27	PASS
Band41	15MHz	QPSK	39725	1RB#74	21.95	PASS
Band41	15MHz	16QAM	39725	1RB#74	21.06	PASS
Band41	15MHz	QPSK	39725	38RB#0	21.14	PASS
Band41	15MHz	16QAM	39725	38RB#0	21.14	PASS
Band41	15MHz	QPSK	39725	38RB#18	21.15	PASS
Band41	15MHz	16QAM	39725	38RB#18	21.15	PASS
Band41	15MHz	QPSK	39725	38RB#37	21.15	PASS
Band41	15MHz	16QAM	39725	38RB#37	21.16	PASS
Band41	15MHz	QPSK	39725	75RB#0	21.15	PASS
Band41	15MHz	16QAM	39725	75RB#0	20.12	PASS
Band41	15MHz	QPSK	40620	1RB#0	22.11	PASS
Band41	15MHz	16QAM	40620	1RB#0	20.86	PASS
Band41	15MHz	QPSK	40620	1RB#38	22.30	PASS
Band41	15MHz	16QAM	40620	1RB#38	21.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	21.98	PASS
Band41	15MHz	16QAM	40620	1RB#74	20.67	PASS
Band41	15MHz	QPSK	40620	38RB#0	21.13	PASS
Band41	15MHz	16QAM	40620	38RB#0	21.13	PASS
Band41	15MHz	QPSK	40620	38RB#18	21.13	PASS
Band41	15MHz	16QAM	40620	38RB#18	21.10	PASS
Band41	15MHz	QPSK	40620	38RB#37	21.09	PASS
Band41	15MHz	16QAM	40620	38RB#37	21.10	PASS
Band41	15MHz	QPSK	40620	75RB#0	21.09	PASS
Band41	15MHz	16QAM	40620	75RB#0	20.05	PASS
Band41	15MHz	QPSK	41515	1RB#0	22.54	PASS
Band41	15MHz	16QAM	41515	1RB#0	21.46	PASS
Band41	15MHz	QPSK	41515	1RB#38	22.87	PASS
Band41	15MHz	16QAM	41515	1RB#38	21.78	PASS
Band41	15MHz	QPSK	41515	1RB#74	22.70	PASS
Band41	15MHz	16QAM	41515	1RB#74	21.65	PASS
Band41	15MHz	QPSK	41515	38RB#0	21.78	PASS
Band41	15MHz	16QAM	41515	38RB#0	21.78	PASS
Band41	15MHz	QPSK	41515	38RB#18	21.82	PASS
Band41	15MHz	16QAM	41515	38RB#18	21.80	PASS
Band41	15MHz	QPSK	41515	38RB#37	21.81	PASS
Band41	15MHz	16QAM	41515	38RB#37	21.82	PASS
Band41	15MHz	QPSK	41515	75RB#0	21.81	PASS
Band41	15MHz	16QAM	41515	75RB#0	20.69	PASS
Band41	20MHz	QPSK	39750	1RB#0	22.55	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.42	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.06	PASS
Band41	20MHz	16QAM	39750	1RB#49	21.98	PASS
Band41	20MHz	QPSK	39750	1RB#99	22.50	PASS
Band41	20MHz	16QAM	39750	1RB#99	21.50	PASS
Band41	20MHz	QPSK	39750	50RB#0	21.69	PASS
Band41	20MHz	16QAM	39750	50RB#0	20.71	PASS
Band41	20MHz	QPSK	39750	50RB#25	21.76	PASS
Band41	20MHz	16QAM	39750	50RB#25	20.68	PASS
Band41	20MHz	QPSK	39750	50RB#50	21.49	PASS
Band41	20MHz	16QAM	39750	50RB#50	20.47	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.67	PASS
Band41	20MHz	16QAM	39750	100RB#0	20.66	PASS
Band41	20MHz	QPSK	40620	1RB#0	22.43	PASS
Band41	20MHz	16QAM	40620	1RB#0	21.03	PASS
Band41	20MHz	QPSK	40620	1RB#49	22.84	PASS
Band41	20MHz	16QAM	40620	1RB#49	21.32	PASS

Band41	20MHz	QPSK	40620	1RB#99	22.27	PASS
Band41	20MHz	16QAM	40620	1RB#99	20.88	PASS
Band41	20MHz	QPSK	40620	50RB#0	21.65	PASS
Band41	20MHz	16QAM	40620	50RB#0	20.72	PASS
Band41	20MHz	QPSK	40620	50RB#25	21.64	PASS
Band41	20MHz	16QAM	40620	50RB#25	20.74	PASS
Band41	20MHz	QPSK	40620	50RB#50	21.47	PASS
Band41	20MHz	16QAM	40620	50RB#50	20.55	PASS
Band41	20MHz	QPSK	40620	100RB#0	21.56	PASS
Band41	20MHz	16QAM	40620	100RB#0	20.60	PASS
Band41	20MHz	QPSK	41490	1RB#0	22.88	PASS
Band41	20MHz	16QAM	41490	1RB#0	21.54	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.57	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.08	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.17	PASS
Band41	20MHz	16QAM	41490	1RB#99	21.76	PASS
Band41	20MHz	QPSK	41490	50RB#0	22.15	PASS
Band41	20MHz	16QAM	41490	50RB#0	21.13	PASS
Band41	20MHz	QPSK	41490	50RB#25	22.16	PASS
Band41	20MHz	16QAM	41490	50RB#25	21.13	PASS
Band41	20MHz	QPSK	41490	50RB#50	22.14	PASS
Band41	20MHz	16QAM	41490	50RB#50	21.08	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.17	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.14	PASS

Note: NFC power According to the test report CTC20240101E18, the reading is calculated to be 53.82dBuV/m=0.000073mW, less than 1mW. According to the standard KDB 447498 D04 can be exempted from evaluation and testing.

7.2. System Check & Tissue simulating liquid

Frequency	Description	SAR		Dielectric Parameters (±10% for window)		Temp
		1g	10g	εr	σ(s/m)	°C
750MHz	Recommended value	2.08 1.68896-2.47104	1.37 1.11381-1.62619	42.0 37.8-46.2	0.90 0.81-0.99	/
	Measurement value 2024-03-14	1.99	1.41	41.86	0.9	22.02
900MHz	Recommended value	2.67 2.16804-3.17196	1.73 1.40649-2.05351	41.5 37.35-45.65	0.97 0.873-1.067	/
	Measurement value 2024-03-14	2.72	1.81	41.428	0.981	22.03
1750MHz	Recommended value	9.97 8.09564-11.84436	5.28 4.29264-6.26736	40.0 36-44	1.40 1.26-1.54	/
	Measurement value 2024-03-13	8.81	4.73	40.24	1.359	22.01
2450MHz	Recommended value	13.5 10.962-16.038	6.29 5.11377-7.46623	39.2 35.28-43.12	1.80 1.62-1.98	/
	Measurement value 2024-03-13	12.28	5.62	39.440	1.818	22.05
2600MHz	Recommended value	14.1 11.6928-17.1072	6.34 5.15442-7.52558	39.0 35.1-42.9	1.96 1.764-2.156	/
	Measurement value 2024-03-12	14.33	6.51	38	2.06	22.03
5250MHz	Recommended value	7.88 5.95728-9.80272	2.23 1.69034-2.76966	35.9 32.31-39.49	4.71 4.239-5.181	/
	Measurement value 2024-03-12	8.16	2.38	35.49	4.52	22.03
5600MHz	Recommended value	8.20 6.1992 – 10.2008	2.32 1.75856 – 2.88144	35.5 31.95- 39.05	5.07 4.563 - 5.577	/
	Measurement value 2024-03-11	8.46	2.45	35.134	4.851	22.03
5750MHz	Recommended value	7.75 5.859-9.641	2.17 1.64486-2.69514	35.4 31.86-38.94	5.22 4.698-5.742	/
	Measurement value 2024-03-11	7.37	2.17	35.211	5.29	22.02

Test Laboratory: Audix SAR Lab

Date: 14/03/2024

CW 750

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN:1d088

Communication System: UID 0, CW (0); Communication System Band: D750 (750.0 MHz);

Frequency: 750 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 750$ MHz; $\sigma = 0.9$ S/m; $\epsilon_r = 41.86$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(9.99, 9.99, 9.99); Calibrated: 12/06/2023;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 17/05/2023
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CW 750MHz/Area Scan (61x91x1): Interpolated grid: dx=2.000 mm, dy=2.000 mm

Maximum value of SAR (interpolated) = 2.74 W/kg

Configuration/CW 750MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

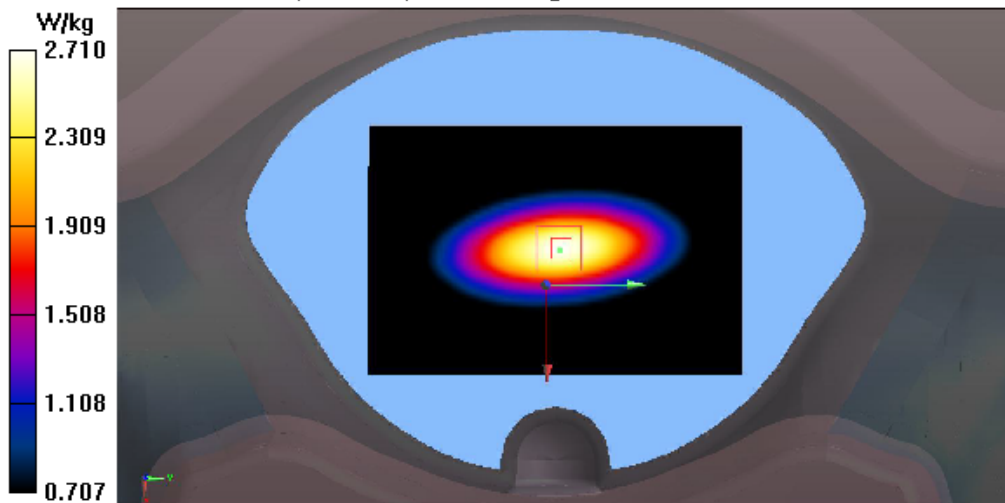
dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.17 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.16 W/kg

SAR(1 g) = 1.99 W/kg; SAR(10 g) = 1.41 W/kg

Maximum value of SAR (measured) = 2.71 W/kg



Test Laboratory: Audix SAR Lab

Date: 14/03/2024

CW 900

DUT: Dipole 900 MHz D900V2; Type: D900V2; Serial: D900V2 - SN:1d088

Communication System: UID 0, CW (0); Communication System Band: D900 (900.0 MHz);

Frequency: 900 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 900 \text{ MHz}$; $\sigma = 0.981 \text{ S/m}$; $\epsilon_r = 41.428$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(9.64, 9.64, 9.64); Calibrated: 12/06/2023;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 17/05/2023
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CW 900MHz/Area Scan (61x71x1): Interpolated grid: $dx=2.000 \text{ mm}$, $dy=2.000 \text{ mm}$

Maximum value of SAR (interpolated) = 3.731 W/kg

Configuration/CW 900MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

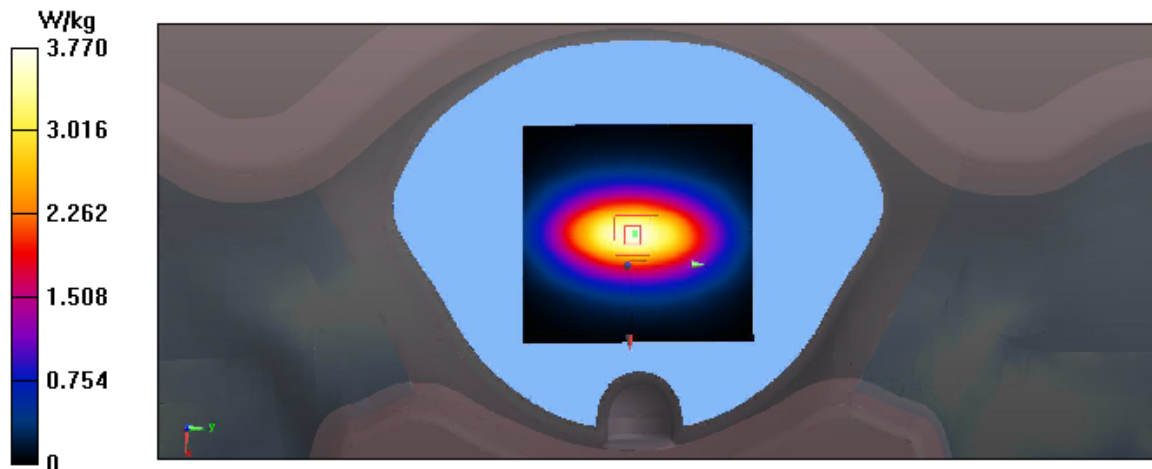
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 66.69 V/m; Power Drift = -0.02dB

Peak SAR (extrapolated) = 4.46 W/kg

SAR(1 g) = 2.72 W/kg; SAR(10 g) = 1.81 W/kg

Maximum value of SAR (measured) = 3.770 W/kg



Test Laboratory: Audix SAR Lab

Date: 13/03/2024

CW 1750

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:2d186

Communication System: UID 0, CW (0); Communication System Band: D1750 (1750.0 MHz); Frequency: 1750 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.359$ S/m; $\epsilon_r = 40.24$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(8.32, 8.32, 8.32); Calibrated: 12/06/2023;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 17/05/2023
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CW 1800MHz/Area Scan (61x71x1): Interpolated grid: $dx=2.000$ mm, $dy=2.000$ mm

Maximum value of SAR (interpolated) = 9.983 W/kg

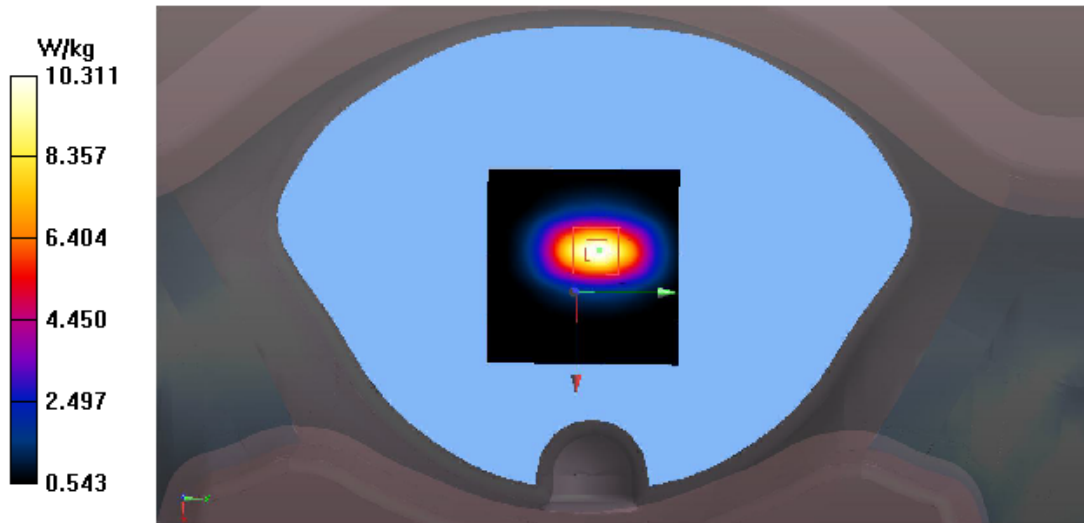
Configuration/CW 1800MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 82.31 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 15.44 W/kg

SAR(1 g) = 8.81 W/kg; SAR(10 g) = 4.73 W/kg

Maximum value of SAR (measured) = 10.311W/kg



Test Laboratory: Audix SAR Lab

Date: 13/03/2024

CW 2450

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:862

Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.818$ S/m; $\epsilon_r = 39.440$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3166; ConvF(4.73, 4.73, 4.73); Calibrated: 27/06/2022;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 17/05/2023
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CW 2450MHz/Area Scan (61x71x1): Interpolated grid: $dx=2.000$ mm, $dy=2.000$ mm

Maximum value of SAR (interpolated) = 13.815 W/kg

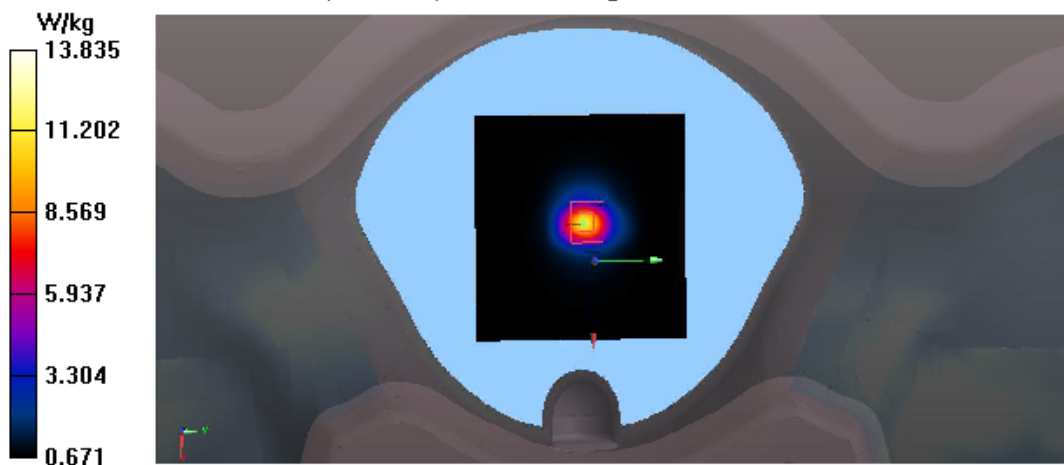
Configuration/CW 2450MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 89.33 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 27.26 W/kg

SAR(1 g) = 12.28 W/kg; SAR(10 g) = 5.62 W/kg

Maximum value of SAR (measured) = 13.835 W/kg



Test Laboratory: Audix SAR Lab

Date: 12/03/2024

CW 2600

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1123

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2600 MHz; Communication System

PAR: 0 dB

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.06$ S/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(7.45, 7.45, 7.45); Calibrated: 12/06/2023;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 17/05/2023
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CW 2600MHz/Area Scan (61x71x1): Interpolated grid: $dx=2.000$ mm, $dy=2.000$ mm

Maximum value of SAR (interpolated) = 16.52 W/kg

Configuration/CW 2600MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

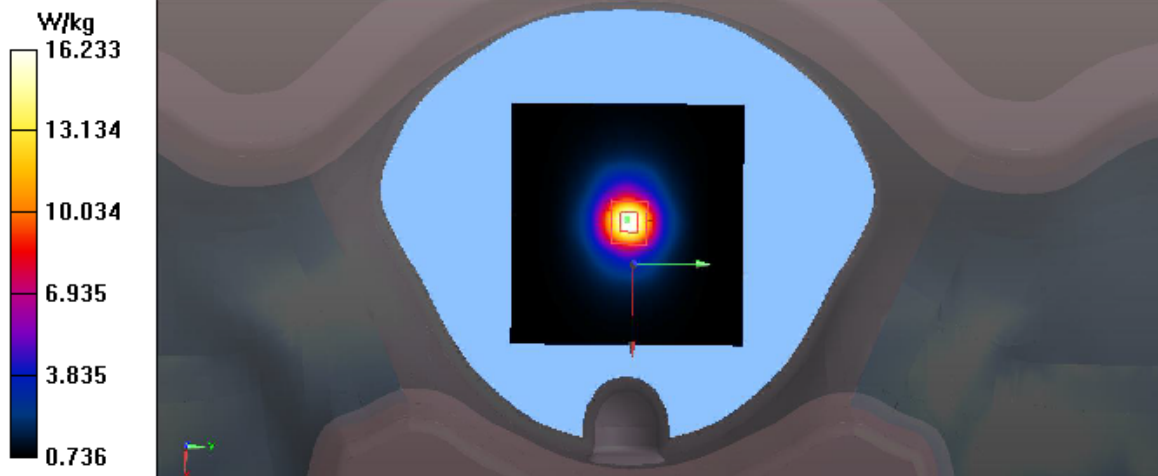
$dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 86.58 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 30.14 W/kg

SAR(1 g) = 14.33 W/kg; SAR(10 g) = 6.51 W/kg

Maximum value of SAR (measured) = 16.233 W/kg



Test Laboratory: Audix SAR Lab

Date: 12/03/2024

CW 5250**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1102**

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5250 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.52$ S/m; $\epsilon_r = 35.49$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(5.55, 5.55, 5.55); Calibrated: 12/06/2023;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 17/05/2023
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CW 5250MHz/Area Scan (61x71x1): Interpolated grid: $dx=2.000$ mm, $dy=2.000$ mm

Maximum value of SAR (interpolated) = 5.56 W/kg

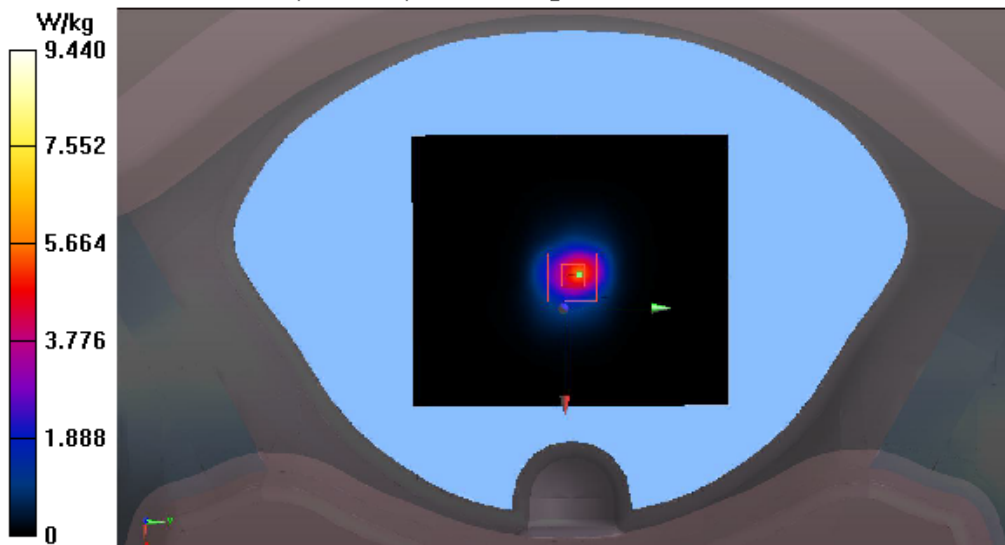
Configuration/CW 5250MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 46.15 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 28.7 W/kg

SAR(1 g) = 8.16 W/kg; SAR(10 g) = 2.38 W/kg

Maximum value of SAR (measured) = 9.44 W/kg



Test Laboratory: Audix SAR Lab

Date: 11/03/2024

CW 5600**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1102**

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5600 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5600$ MHz; $\sigma = 4.851$ S/m; $\epsilon_r = 35.134$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(4.97, 4.97, 4.97); Calibrated: 12/06/2023;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 17/05/2023
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CW 5600MHz/Area Scan (61x71x1): Interpolated grid: $dx=2.000$ mm, $dy=2.000$ mm

Maximum value of SAR (interpolated) = 6.35 W/kg

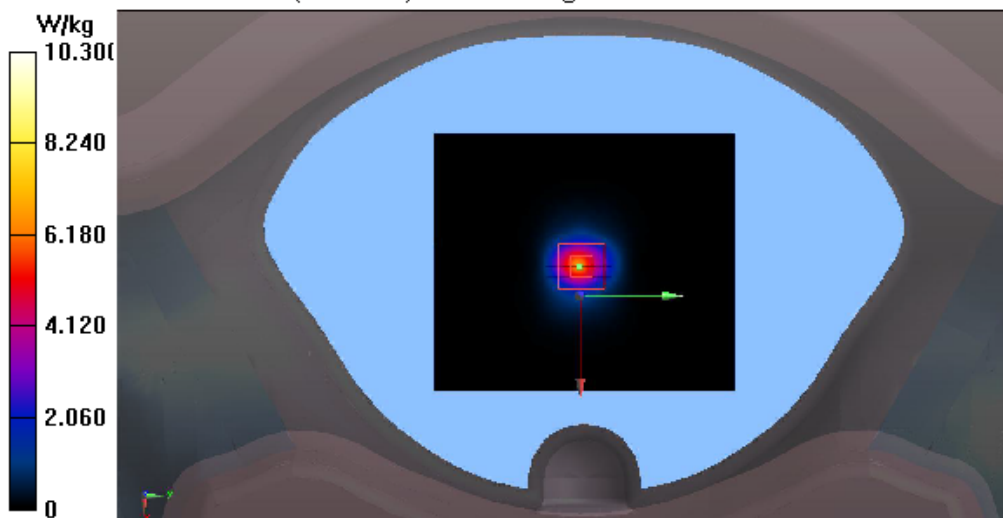
Configuration/CW 5600MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 46.12 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 30.67 W/kg

SAR(1 g) = 8.46 W/kg; SAR(10 g) = 2.45 W/kg

Maximum value of SAR (measured) = 10.26 W/kg



Test Laboratory: Audix SAR Lab

Date: 11/03/2024

CW 5750

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1102

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz); Frequency: 5750 MHz; Communication System PAR: 0 dB

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.29$ S/m; $\epsilon_r = 35.211$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(4.92, 4.92, 4.92); Calibrated: 12/06/2023;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 17/05/2023
- Phantom: SAM1; Type: SAM; Serial: TP-1543
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CW 5750MHz/Area Scan (61x71x1): Interpolated grid: $dx=2.000$ mm, $dy=2.000$ mm

Maximum value of SAR (interpolated) = 5.22 W/kg

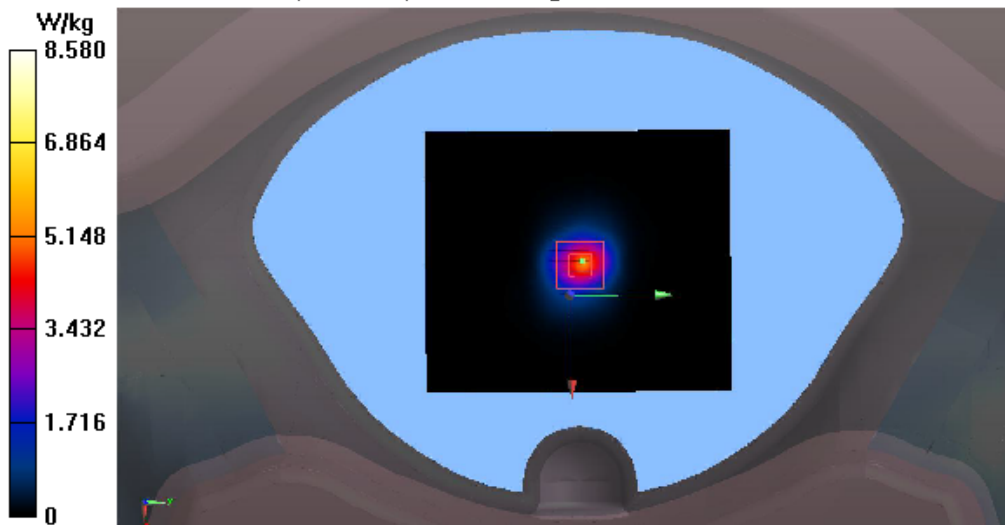
Configuration/CW 5750MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 40.25 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 27.0 W/kg

SAR(1 g) = 7.37 W/kg; SAR(10 g) = 2.17 W/kg

Maximum value of SAR (measured) = 8.58 W/kg



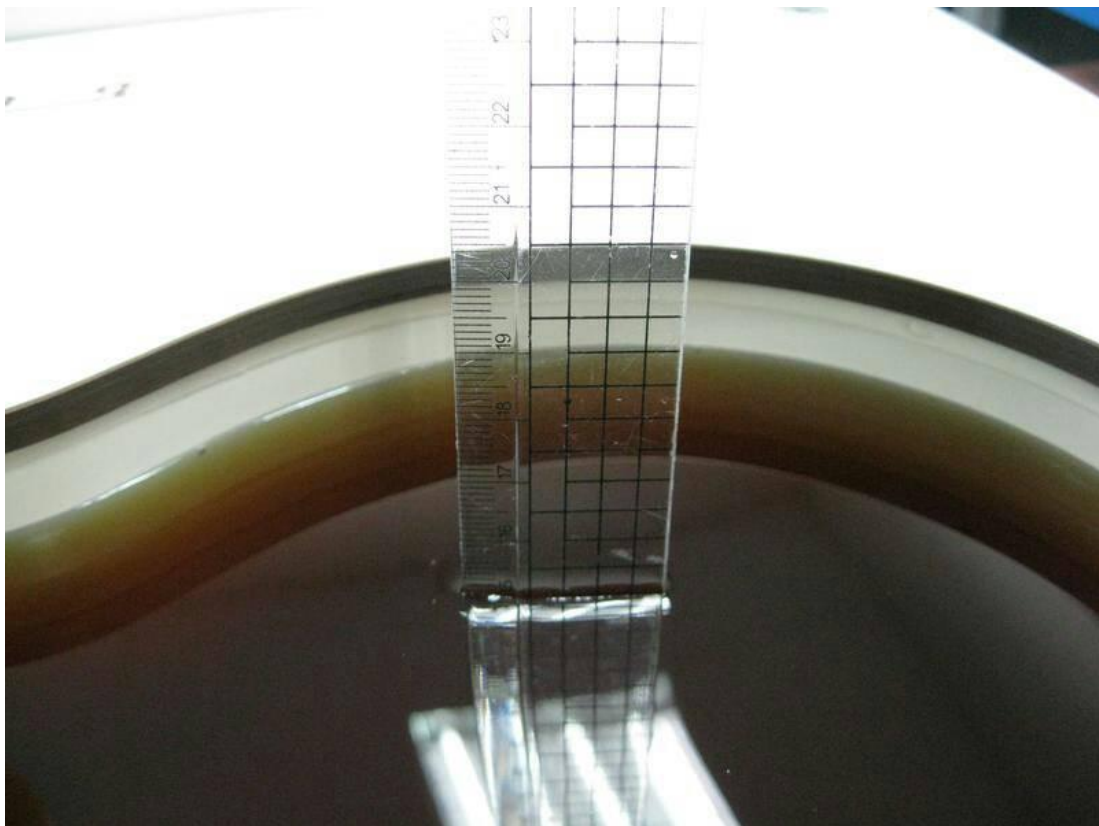
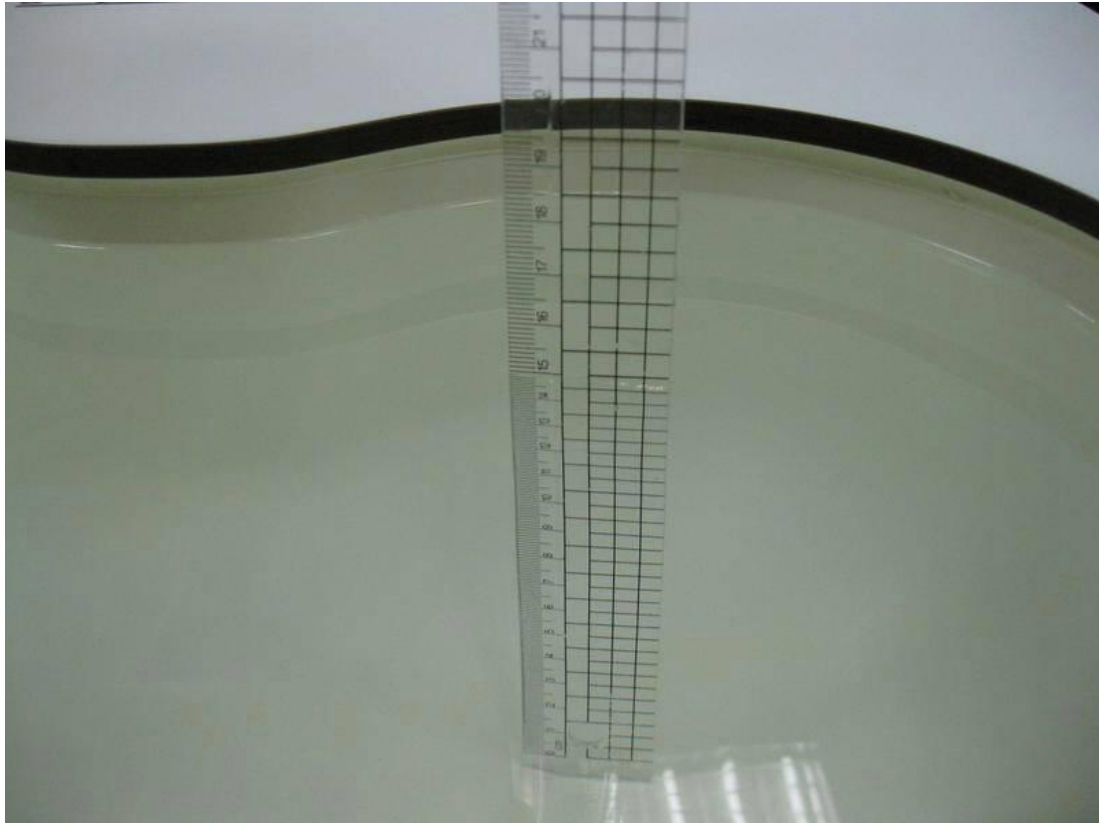


Figure 4.4: Liquid depth in the Flat Phantom

7.3. Test Results

Test Mode: BT

SAR Test Record For BT

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	0	1	0.00699	0.000455	4.013	4.5	1.11866487	0.008	0.001	0.07
Front	0	1	0.000628	0.000448	4.013	4.5	1.11866487	0.001	0.001	-0.16
Top	0	1	0.000647	0.000237	4.013	4.5	1.11866487	0.001	0.000	0.13
Bottom	0	1	/	/	4.013	4.5	1.11866487	0.000	0.000	/
Left	0	1	0.00036	0.00011	4.013	4.5	1.11866487	0.0004	0.000	-0.19
Right	0	1	0.000587	0.000195	4.013	4.5	1.11866487	0.001	0.000	-0.16
Back-1	0	1	0.00633	0.000224	4.013	4.5	1.11866487	0.007	0.000	0.13
Back-2	0	1	0.00588	0.000331	4.013	4.5	1.11866487	0.007	0.000	0.01
Top-1	0	1	0.000511	0.000111	4.013	4.5	1.11866487	0.001	0.000	0.12
Top-2	0	1	0.000498	0.000101	4.013	4.5	1.11866487	0.001	0.000	0.11

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)
 Scaled SAR-1= Measured SAR*Factor
 Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Test Mode: WIFI 2.4GHz

SAR Test Record For WIFI 2.4G

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	11	1	0.119	0.053	12.465	13	1.131097389	0.135	0.060	0.11
Front	11	1	0.023	0.011	12.465	13	1.131097389	0.026	0.012	-0.16
Top	11	1	0.03	0.014	12.465	13	1.131097389	0.034	0.016	0.13
Bottom	11	1	/	/	/	/	1	0.000	0.000	/
Left	11	1	0.00245	0.0011	12.465	13	1.131097389	0.003	0.001	-0.19
Right	11	1	0.039	0.02	12.465	13	1.131097389	0.044	0.023	-0.16
Back-1	11	1	0.111	0.055	12.465	13	1.131097389	0.126	0.062	-0.1
Back-2	11	1	0.113	0.054	12.465	13	1.131097389	0.128	0.061	0.04
Top-1	11	1	0.019	0.00977	12.465	13	1.131097389	0.021	0.011	0.09
Top-2	11	1	0.017	0.00856	12.465	13	1.131097389	0.019	0.010	0.11

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)
 Scaled SAR-1= Measured SAR*Factor
 Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Test Mode: WIFI 5GHz-Band 1

SAR Test Record For WIFI 5G Band1

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	42	1	0.581	0.214	17.89	18	1.026	0.596	0.219	0.01
Front	42	1	0.1	0.04	17.89	18	1.026	0.103	0.041	0.15
Top	42	1	0.174	0.065	17.89	18	1.026	0.178	0.067	-0.08
Left	42	1	0.04	0.019	17.89	18	1.026	0.041	0.019	0.19
Right	42	1	0.145	0.059	17.89	18	1.026	0.149	0.061	0.1
Back-1	42	1	0.324	0.109	17.89	18	1.026	0.332	0.112	0.04
Back-2	42	1	0.307	0.111	17.89	18	1.026	0.315	0.114	1.04
Top-1	42	1	0.122	0.051	17.89	18	1.026	0.125	0.052	0.03
Top-2	42	1	0.111	0.045	17.89	18	1.026	0.114	0.046	0.16

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)
 Scaled SAR-1= Measured SAR*Factor
 Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Test Mode: WIFI 5GHz-Band 2

SAR Test Record For WIFI 5G Band2

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	58	1	0.612	0.224	17.68	18	1.076	0.659	0.241	-0.13
Front	58	1	0.094	0.038	17.68	18	1.076	0.101	0.041	0.19
Top	58	1	0.297	0.107	17.68	18	1.076	0.320	0.115	0
Left	58	1	0.062	0.027	17.68	18	1.076	0.067	0.029	0.1
Right	58	1	0.214	0.085	17.68	18	1.076	0.230	0.091	0.14
Back-1	58	1	0.433	0.133	17.68	18	1.076	0.466	0.143	0.1
Back-2	58	1	0.429	0.123	17.68	18	1.076	0.462	0.132	0.11
Top-1	58	1	0.134	0.098	17.68	18	1.076	0.144	0.105	-0.05
Top-2	58	1	0.124	0.079	17.68	18	1.076	0.133	0.085	0.01

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)
 Scaled SAR-1= Measured SAR*Factor
 Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Test Mode: WIFI 5GHz-Band 3

SAR Test Record For WIFI 5G Band3

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	100	1	0.665	0.243	13.35	14	1.161	0.772	0.282	-0.03
Front	100	1	0.105	0.042	13.35	14	1.161	0.122	0.049	0.13
Top	100	1	0.236	0.091	13.35	14	1.161	0.274	0.106	0.18
Bottom	100	1	/	/	/	/	1	0.000	0.000	/
Left	100	1	0.028	0.012	13.35	14	1.161	0.033	0.014	0.11
Right	100	1	0.168	0.069	13.35	14	1.161	0.195	0.080	0.14
Back-1	100	1	0.577	0.134	13.35	14	1.161	0.670	0.156	-0.06
Back-2	100	1	0.552	0.124	13.35	14	1.161	0.641	0.144	-0.06
Top-1	100	1	0.147	0.083	13.35	14	1.161	0.171	0.096	0.11
Top-2	100	1	0.125	0.078	13.35	14	1.161	0.145	0.091	0.09

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)

Scaled SAR-1= Measured SAR*Factor

Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Test Mode: WIFI 5GHz- Band 4

SAR Test Record For WIFI 5G Band4

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	149	1	0.542	0.211	9.08	11	1.556	0.843	0.328	-0.07
Back	165	1	0.544	0.215	10.34	11	1.164	0.633	0.250	-0.07
Front	165	1	0.116	0.047	10.34	11	1.164	0.135	0.055	0.19
Top	165	1	0.126	0.05	10.34	11	1.164	0.147	0.058	0.16
Bottom	165	1	/	/	/	/	1	0.000	0.000	/
Left	165	1	0.00731	0.00193	10.34	11	1.164	0.009	0.002	0.15
Right	165	1	0.102	0.044	10.34	11	1.164	0.119	0.051	0.11
Back	157	1	0.537	0.207	9.03	11	1.574	0.845	0.326	0.03
Back-1	157	1	0.441	0.121	9.03	11	1.574	0.694	0.190	0.08
Back-1	157	1	0.432	0.119	9.03	11	1.574	0.680	0.187	0.03
Top-1	165	1	0.083	0.031	10.34	11	1.164	0.097	0.036	0.02
Top-2	165	1	0.079	0.028	10.34	11	1.164	0.092	0.033	0.04

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)

Scaled SAR-1= Measured SAR*Factor

Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Test Mode: UMTS Band 2

SAR Test Record For UMTS Band2

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	9262	1	0.349	0.176	24.16	24.5	1.081433951	0.377	0.190	-0.06
Front	9262	1	0.144	0.077	24.16	24.5	1.081433951	0.156	0.083	-0.09
Top	9262	1	/	/	24.16	24.5	1.081433951	0.000	0.000	/
Bottom	9262	1	0.064	0.034	24.16	24.5	1.081433951	0.069	0.037	-0.03
Left	9262	1	0.192	0.098	24.16	24.5	1.081433951	0.208	0.106	-0.11
Right	9262	1	0.035	0.019	24.16	24.5	1.081433951	0.038	0.021	0.15
Back-1	9262	1	0.311	0.185	24.16	24.5	1.081433951	0.336	0.200	0.03
Back-2	9262	1	0.298	0.181	24.16	24.5	1.081433951	0.322	0.196	-0.03

Conclusion: PASS

Note:
 Factor= Max. Scaled AV Power(W)/Measured Power(W)
 Scaled SAR-1= Measured SAR*Factor
 Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Test Mode: UMTS Band 5

SAR Test Record For UMTS Band5

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	4132	1	0.023	0.013	24.5	25	1.122018454	0.026	0.015	-0.17
Front	4132	1	0.004	0.00259	24.5	25	1.122018454	0.004	0.003	0.14
Bottom	4132	1	0.022	0.012	24.5	25	1.122018454	0.025	0.013	-0.06
Left	4132	1	0.00472	0.00302	24.5	25	1.122018454	0.005	0.003	-0.13
Right	4132	1	0.0023	0.00145	24.5	25	1.122018454	0.003	0.002	-0.08
Back-1	4132	1	0.021	0.012	24.5	25	1.122018454	0.024	0.013	0.15
Back-1	4132	1	0.022	0.011	24.5	25	1.122018454	0.025	0.012	0.17

Conclusion: PASS

Note:
 Factor= Max. Scaled AV Power(W)/Measured Power(W)
 Scaled SAR-1= Measured SAR*Factor
 Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Test Mode: GSM850

SAR Test Record For GSM850

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	128	1	0.00598	0.00366	30.14	31	1.218989599	0.007	0.004	0.15
Front	128	1	0.00204	0.00132	30.14	31	1.218989599	0.002	0.002	-0.11
Top	128	1	/	/	30.14	31	1.218989599	0.000	0.000	/
Bottom	128	1	0.0042	0.00254	30.14	31	1.218989599	0.005	0.003	-0.16
Left	128	1	0.000824	0.000499	30.14	31	1.218989599	0.001	0.001	0.02
Right	128	1	0.000628	0.000329	30.14	31	1.218989599	0.001	0.000	0.18
Back-1	128	1	0.00607	0.00368	30.14	31	1.218989599	0.007	0.004	0.09
Back-2	128	1	0.00609	0.00377	30.14	31	1.218989599	0.007	0.005	0.11

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)
 Scaled SAR-1= Measured SAR*Factor
 Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Test Mode: GSM1900

SAR Test Record For GSM1900

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	810	1	0.068	0.033	28.89	30	1.291219274	0.088	0.043	0.03
Front	810	1	0.059	0.031	28.89	30	1.291219274	0.076	0.040	-0.05
Top	810	1	/	/	28.89	30	1.291219274	0.000	0.000	/
Bottom	810	1	0.044	0.022	28.89	30	1.291219274	0.057	0.028	0.18
Left	810	1	0.049	0.026	28.89	30	1.291219274	0.063	0.034	-0.13
Right	810	1	0.01	0.00588	28.89	30	1.291219274	0.013	0.008	0.16
Back-1	810	1	0.066	0.032	28.89	30	1.291219274	0.085	0.041	0.17
Back-2	810	1	0.064	0.031	28.89	30	1.291219274	0.083	0.040	0.1

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)
 Scaled SAR-1= Measured SAR*Factor
 Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Test Mode: E-UTRA Band 2

SAR Test Record For LTE Band2

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	18700 (1RB#49)	1	0.135	0.08	23.61	24	1.093956366	0.148	0.088	-0.13
Front	18700 (1RB#49)	1	0.107	0.056	23.61	24	1.093956366	0.117	0.061	0.05
Bottom	18700 (1RB#49)	1	0.164	0.078	23.61	24	1.093956366	0.179	0.085	-0.11
Left	18700 (1RB#49)	1	0.089	0.048	23.61	24	1.093956366	0.097	0.053	-0.12
Right	18700 (1RB#49)	1	0.023	0.013	23.61	24	1.093956366	0.025	0.014	0.13

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)
 Scaled SAR-1= Measured SAR*Factor
 Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

SAR Test Record For LTE Band2

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power (dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	18700(1RB#0)	1	0.121	0.078	23.18	24	1.207813835	0.146	0.094	0.01
Front	18700(1RB#0)	1	0.095	0.54	23.18	24	1.207813835	0.115	0.652	0.13
Bottom	18700(1RB#0)	1	0.144	0.067	23.18	24	1.207813835	0.174	0.081	-0.11
Left	18700(1RB#0)	1	0.08	0.041	23.18	24	1.207813835	0.097	0.050	0.13
Right	18700(1RB#0)	1	0.018	0.009	23.18	24	1.207813835	0.022	0.011	0.11

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)
 Scaled SAR-1= Measured SAR*Factor
 Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Test Mode: E-UTRA Band 4

SAR Test Record For LTE Band4

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power (dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	20300(1RB#49)	1	0.043	0.028	23.57	24	1.10407862	0.047	0.031	0.11
Front	20300(1RB#49)	1	0.035	0.02	23.57	24	1.10407862	0.039	0.022	0.01
Top	20300(1RB#49)	1	/	/	23.57	24	1.10407862	0.000	0.000	/
Bottom	20300(1RB#49)	1	0.048	0.022	23.57	24	1.10407862	0.053	0.024	-0.19
Left	20300(1RB#49)	1	0.036	0.019	23.57	24	1.10407862	0.040	0.021	-0.19
Right	20300(1RB#49)	1	0.00599	0.0034	23.57	24	1.10407862	0.007	0.004	0.03

Conclusion: PASS

Note:
 Factor= Max. Scaled AV Power(W)/Measured Power(W)
 Scaled SAR-1= Measured SAR*Factor
 Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

SAR Test Record For LTE Band4

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	20300 (1RB#0)	1	0.038	0.022	23.04	24	1.10407862	0.042	0.024	0.12
Front	20300 (1RB#0)	1	0.029	0.013	23.04	24	1.10407862	0.032	0.014	0.13
Left	20300 (1RB#0)	1	0.028	0.01	23.04	24	1.10407862	0.031	0.011	-0.01
Right	20300 (1RB#0)	1	0.00488	0.00289	23.04	24	1.10407862	0.005	0.003	0.01
Bottom	20300 (1RB#0)	1	0.041	0.021	23.04	24	1.247383514	0.051	0.026	-0.19

Conclusion: PASS

Note:
 Factor= Max. Scaled AV Power(W)/Measured Power(W)
 Scaled SAR-1= Measured SAR*Factor
 Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Test Mode: E-UTRA Band 5

SAR Test Record For LTE Band5

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	20525(1RB#24)	1	0.011	0.00803	25.39	26	1.150800389	0.013	0.009	0.15
Front	20525(1RB#24)	1	0.00479	0.00134	25.39	26	1.150800389	0.006	0.002	0.01
Top	20525(1RB#24)	1	/	/	25.39	26	1.150800389	0.000	0.000	/
Bottom	20525(1RB#24)	1	0.01	0.00733	25.39	26	1.150800389	0.012	0.008	0
Left	20525(1RB#24)	1	0.00401	0.00258	25.39	26	1.150800389	0.005	0.003	-0.12
Right	20525(1RB#24)	1	0.00201	0.00102	25.39	26	1.150800389	0.002	0.001	0.12
Back-2	20525(1RB#24)	1	0.00981	0.00633	25.39	26	1.150800389	0.011	0.007	0.01
Back-1	20525(1RB#24)	1	0.00911	0.00688	25.39	26	1.150800389	0.010	0.008	0.03

Conclusion: PASS

Note:
 Factor= Max. Scaled AV Power(W)/Measured Power(W)
 Scaled SAR-1= Measured SAR*Factor
 Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

SAR Test Record For LTE Band5

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	20525(1RB#0)	1	0.01	0.00789	25.23	26	1.193988104	0.012	0.009	0.15
Front	20525(1RB#0)	1	0.00578	0.00367	25.23	26	1.193988104	0.007	0.004	0.16
Top	20525(1RB#0)	1	/	/	25.23	26	1.193988104	0.000	0.000	/
Bottom	20525(1RB#0)	1	0.0091	0.0056	25.23	26	1.193988104	0.011	0.007	0.19
Left	20525(1RB#0)	1	0.00493	0.00338	25.23	26	1.193988104	0.006	0.004	0.11
Right	20525(1RB#0)	1	0.00229	0.00144	25.23	26	1.193988104	0.003	0.002	0.12

Conclusion: PASS

Note:
 Factor= Max. Scaled AV Power(W)/Measured Power(W)
 Scaled SAR-1= Measured SAR*Factor
 Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Test Mode: E-UTRA Band 7

SAR Test Record For LTE Band7

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	21100(1RB#49)	1	0.628	0.313	24.11	24.5	1.093956366	0.687	0.342	0.14
Front	21100(1RB#49)	1	0.188	0.091	24.11	24.5	1.093956366	0.206	0.100	-0.11
Top	21100(1RB#49)	1	/	/	24.11	24.5	1.093956366	0.000	0.000	/
Bottom	21100(1RB#49)	1	0.577	0.253	24.11	24.5	1.093956366	0.631	0.277	0.14
Left	21100(1RB#49)	1	0.164	0.079	24.11	24.5	1.093956366	0.179	0.086	0.02
Right	21100(1RB#49)	1	0.029	0.017	24.11	24.5	1.093956366	0.032	0.019	0.03
Back-2	21100(1RB#49)	1	0.467	0.159	24.11	24.5	1.093956366	0.511	0.174	0.12
Back-1	21100(1RB#49)	1	0.398	0.109	25.11	25.5	1.093956366	0.435	0.119	0.11

Conclusion: PASS

Note:
 Factor= Max. Scaled AV Power(W)/Measured Power(W)
 Scaled SAR-1= Measured SAR*Factor
 Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

SAR Test Record For LTE Band7

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	21100(1RB#0)	1	0.579	0.289	23.77	24.5	1.183041556	0.685	0.342	0.14
Front	21100(1RB#0)	1	0.18	0.085	23.77	24.5	1.183041556	0.213	0.101	0.11
Top	21100(1RB#0)	1	/	/	23.77	24.5	1.183041556	0.000	0.000	/
Bottom	21100(1RB#0)	1	0.522	0.234	23.77	24.5	1.183041556	0.618	0.277	0.19
Left	21100(1RB#0)	1	0.184	0.086	23.77	24.5	1.183041556	0.218	0.102	0.01
Right	21100(1RB#0)	1	0.037	0.02	23.77	24.5	1.183041556	0.044	0.024	0.1

Conclusion: PASS

Note:
 Factor= Max. Scaled AV Power(W)/Measured Power(W)
 Scaled SAR-1= Measured SAR*Factor
 Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Test Mode: E-UTRA Band 12

SAR Test Record For LTE Band12

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	23130(1RB#24)	1	0.00606	0.0055	25.18	26	1.207813835	0.007	0.007	0.01
Front	23130(1RB#24)	1	0.00257	0.00206	25.18	26	1.207813835	0.003	0.002	0
Top	23130(1RB#24)	1	/	/	25.18	26	1.207813835	0.000	0.000	/
Bottom	23130(1RB#24)	1	0.0046	0.00339	25.18	26	1.207813835	0.006	0.004	0.15
Left	23130(1RB#24)	1	0.0043	0.0021	25.18	26	1.207813835	0.005	0.003	0.12
Right	23130(1RB#24)	1	0.0029	0.00196	25.18	26	1.207813835	0.004	0.002	0.11
Back-1	23130(1RB#24)	1	0.00433	0.0021	25.18	26	1.207813835	0.005	0.003	0
Back-2	23130(1RB#24)	1	0.00388	0.0015	25.18	26	1.207813835	0.005	0.002	0.01

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)

Scaled SAR-1= Measured SAR*Factor

Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

SAR Test Record For LTE Band12

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	23130(1RB#0)	1	0.00563	0.00433	24.98	26	1.264736347	0.007	0.005	0.01
Front	23130(1RB#0)	1	0.00257	0.00206	24.98	26	1.264736347	0.003	0.003	-0.1
Top	23130(1RB#0)	1	/	/	24.98	26	1.264736347	0.000	0.000	/
Bottom	23130(1RB#0)	1	0.0043	0.00339	24.98	26	1.264736347	0.005	0.004	0.18
Left	23130(1RB#0)	1	0.00511	0.00442	24.98	26	1.264736347	0.006	0.006	0.16
Right	23130(1RB#0)	1	0.0029	0.00196	24.98	26	1.264736347	0.004	0.002	-0.18

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)

Scaled SAR-1= Measured SAR*Factor

Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Note: Work frequency of band 17 has been included in band 12, therefore, only band 12 reported and both of these and are use the same RF output line, have the same power setting and radio frequency feature.

Test Mode: E-UTRA Band 41

SAR Test Record For LTE Band41

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	41490(1RB#49)	1	0.371	0.142	23.57	24	1.10407862	0.410	0.157	0.16
Front	41490(1RB#49)	1	0.038	0.017	23.57	24	1.10407862	0.042	0.019	0.17
Top	41490(1RB#49)	1	/	/	23.57	24	1.10407862	0.000	0.000	/
Bottom	41490(1RB#49)	1	0.233	0.135	23.57	24	1.10407862	0.257	0.149	-0.11
Left	41490(1RB#49)	1	0.016	0.00716	23.57	24	1.10407862	0.018	0.008	0.04
Right	41490(1RB#49)	1	0.011	0.00616	23.57	24	1.10407862	0.012	0.007	0.16
Back-2	41490(1RB#49)	1	0.298	0.102	23.57	24	1.10407862	0.329	0.113	0.08
Back-1	41490(1RB#49)	1	0.244	0.1	23.57	24	1.10407862	0.269	0.110	0.11

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)

Scaled SAR-1= Measured SAR*Factor

Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

SAR Test Record For LTE Band41

Test Position	Test CH	Duty Cycle	Measure SAR 1g(W/kg)	Measure SAR 10g(W/kg)	Conducted Power(dBm)	Tune up Power(dBm)	Factor	Scaled Final SAR 1g	Scaled Final SAR 10g	power drift
Back	41490(1RB#0)	1	0.31	0.123	22.88	24	1.294195841	0.401	0.159	0.16
Front	41490(1RB#0)	1	0.031	0.013	22.88	24	1.294195841	0.040	0.017	0.12
Top	41490(1RB#0)	1	/	/	22.88	24	1.294195841	0.000	0.000	/
Bottom	41490(1RB#0)	1	0.201	0.107	22.88	24	1.294195841	0.260	0.138	-0.01
Left	41490(1RB#0)	1	0.013	0.00633	22.88	24	1.294195841	0.017	0.008	0.01
Right	41490(1RB#0)	1	0.0098	0.00533	22.88	24	1.294195841	0.013	0.007	0.02

Conclusion: PASS

Note:

Factor= Max. Scaled AV Power(W)/Measured Power(W)

Scaled SAR-1= Measured SAR*Factor

Scaled-Final= Scaled SAR-1*(1/Duty Cycle)

Total SAR:

Test Mode			Total SAR 1g	Limit
Position	WLAN 2.4G	UMTS Band 2		
Back	0.135	0.377	0.512	1.6W/kg
Front	0.026	0.156	0.182	
Top	0.034	\	0.034	
Bottom	\	0.069	0.069	
Left	0.003	0.208	0.211	
Right	0.044	0.038	0.082	

Test Mode			Total SAR 1g	Limit
Position	WLAN 2.4G	UMTS Band 5		
Back	0.135	0.026	0.161	1.6W/kg
Front	0.026	0.004	0.03	
Top	0.034	\	0.034	
Bottom	\	0.025	0.025	
Left	0.003	0.005	0.008	
Right	0.044	0.003	0.047	

Test Mode			Total SAR 1g	Limit
Position	WLAN 2.4G	E-UTRA Band 2		
Back	0.135	0.148	0.283	1.6W/kg
Front	0.026	0.117	0.143	
Top	0.034	\	0.034	
Bottom	\	0.179	0.179	
Left	0.003	0.097	0.1	
Right	0.044	0.025	0.069	

Test Mode			Total SAR	Limit
Position	WLAN 2.4G	E-UTRA Band 4	1g	
Back	0.135	0.047	0.182	2W/kg
Front	0.026	0.039	0.065	
Top	0.034	\	0.034	
Bottom	\	0.053	0.053	
Left	0.003	0.04	0.043	
Right	0.044	0.007	0.051	

Test Mode			Total SAR	Limit
Position	WLAN 2.4G	E-UTRA Band 5	1g	
Back	0.135	0.016	0.151	1.6W/kg
Front	0.026	0.007	0.033	
Top	0.034	\	0.034	
Bottom	\	0.012	0.012	
Left	0.003	0.006	0.009	
Right	0.044	0.003	0.047	

Test Mode			Total SAR	Limit
Position	WLAN 2.4G	E-UTRA Band 7	1g	
Back	0.135	0.687	0.822	1.6W/kg
Front	0.026	0.213	0.239	
Top	0.034	\	0.034	
Bottom	\	0.631	0.631	
Left	0.003	0.218	0.221	
Right	0.044	0.044	0.088	

Test Mode			Total SAR	Limit
Position	WLAN 2.4G	E-UTRA Band 12	1g	
Back	0.135	0.007	0.142	1.6W/kg
Front	0.026	0.003	0.029	
Top	0.034	\	0.034	
Bottom	\	0.006	0.006	
Left	0.003	0.006	0.009	
Right	0.044	0.004	0.048	

Test Mode			Total SAR	Limit
Position	WLAN 2.4G	E-UTRA Band 41	1g	
Back	0.135	0.41	0.545	1.6W/kg
Front	0.026	0.042	0.068	
Top	0.034	\	0.034	
Bottom	\	0.26	0.26	
Left	0.003	0.018	0.021	
Right	0.044	0.013	0.057	

Test Mode			Total SAR	Limit
Position	WLAN 5G	UMTS Band 2	1g	
Back	0.845	0.377	1.222	1.6W/kg
Front	0.135	0.156	0.291	
Top	0.32	\	0.32	
Bottom	\	0.069	0.069	
Left	0.067	0.208	0.275	
Right	0.23	0.038	0.268	

Test Mode			Total SAR	Limit
Position	WLAN 5G	UMTS Band 5	1g	
Back	0.845	0.026	0.871	1.6W/kg
Front	0.135	0.004	0.139	
Top	0.32	\	0.32	
Bottom	\	0.025	0.025	
Left	0.067	0.005	0.072	
Right	0.23	0.003	0.233	

Test Mode			Total SAR	Limit
Position	WLAN 5G	E-UTRA Band 2	1g	
Back	0.845	0.148	0.993	1.6W/kg
Front	0.135	0.117	0.252	
Top	0.32	\	0.32	
Bottom	\	0.179	0.179	
Left	0.067	0.097	0.164	
Right	0.23	0.025	0.255	

Test Mode			Total SAR	Limit
Position	WLAN 5G	E-UTRA Band 4	1g	
Back	0.845	0.047	0.892	1.6W/kg
Front	0.135	0.039	0.174	
Top	0.32	\	0.32	
Bottom	\	0.053	0.053	
Left	0.067	0.04	0.107	
Right	0.23	0.007	0.237	

Test Mode			Total SAR 1g	Limit
Position	WLAN 5G	E-UTRA Band 5		
Back	0.845	0.016	0.861	1.6W/kg
Front	0.135	0.007	0.142	
Top	0.32	\	0.32	
Bottom	\	0.012	0.012	
Left	0.067	0.006	0.073	
Right	0.23	0.003	0.233	

Test Mode			Total SAR 1g	Limit
Position	WLAN 5G	E-UTRA Band 7		
Back	0.845	0.687	1.532	1.6W/kg
Front	0.135	0.213	0.348	
Top	0.32	\	0.32	
Bottom	\	0.631	0.631	
Left	0.067	0.218	0.285	
Right	0.23	0.044	0.274	

Test Mode			Total SAR 1g	Limit
Position	WLAN 5G	E-UTRA Band 12		
Back	0.845	0.007	0.852	1.6W/kg
Front	0.135	0.003	0.138	
Top	0.32	\	0.32	
Bottom	\	0.006	0.006	
Left	0.067	0.006	0.073	
Right	0.23	0.004	0.234	

Test Mode			Total SAR 1g	Limit
Position	WLAN 5G	E-UTRA Band 41		
Back	0.845	0.41	1.255	1.6W/kg
Front	0.135	0.042	0.177	
Top	0.32	\	0.32	
Bottom	\	0.26	0.26	
Left	0.067	0.018	0.085	
Right	0.23	0.013	0.243	

Test Mode			Total SAR	Limit
Position	WLAN 2.4G	GSM 850	1g	
Back	0.135	0.007	0.142	1.6W/kg
Front	0.026	0.002	0.028	
Top	0.034	\	0.034	
Bottom	\	0.005	0.005	
Left	0.003	0.001	0.004	
Right	0.044	0.001	0.045	

Test Mode			Total SAR	Limit
Position	WLAN 2.4G	GSM 1900	1g	
Back	0.135	0.088	0.223	1.6W/kg
Front	0.026	0.076	0.102	
Top	0.034	\	0.034	
Bottom	\	0.057	0.057	
Left	0.003	0.063	0.066	
Right	0.044	0.013	0.057	

Test Mode			Total SAR	Limit
Position	WLAN 5G	GSM 850	1g	
Back	0.845	0.007	0.852	1.6W/kg
Front	0.135	0.002	0.137	
Top	0.32	\	0.32	
Bottom	\	0.005	0.005	
Left	0.067	0.001	0.068	
Right	0.23	0.001	0.231	

Test Mode			Total SAR	Limit
Position	WLAN 5G	GSM 1900	1g	
Back	0.845	0.088	0.933	1.6W/kg
Front	0.135	0.076	0.211	
Top	0.32	\	0.32	
Bottom	\	0.057	0.057	
Left	0.067	0.063	0.13	
Right	0.23	0.013	0.243	

Test Mode				Total SAR	Limit
Position	WLAN 5G	E-UTRA Band 7	BT	1g	
Back	0.845	0.687	0.008	1.54	1.6W/kg
Front	0.135	0.213	0.001	0.349	
Top	0.32	\	0.001	0.321	
Bottom	\	0.631	\	0.631	
Left	0.067	0.218	0.0004	0.2854	
Right	0.23	0.044	0.001	0.275	

Max 1g SAR				Total	Limit
BT (W/kg)	WIFI (W/kg)	WWAN (W/kg)	NFC (mW)		
0.008	0.845	0.687	0.000073	0.96	<1

Note :

Total=BT/Limit+WIFI/Limit+WWAN/Limit+NFC/Limit

NFC Limit:1mW/MHz