SAR TEST REPORT

For

Latsen Technology LTD

Pawfit Lite GPS pet tracker (Pawfit Lite, Pawfit Lite For Cats, Pawfit Lite For Dogs)

Test Model: TR3C

Prepared for	:	Latsen Technology LTD
Address	:	Unit 19A, The Matchworks, Speke Road, Liverpool, L19 2RF, United Kingdom
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample	:	April 02, 2025
Number of tested samples	:	1
Sample number	:	A250401044-1
Serial number	:	Prototype
Date of Test	:	April 02, 2025 ~ April 26, 2025
Date of Report	:	April 28, 2025

SAR TEST REPORT	
Report Reference No.....:	LCSA09144059EB
Date Of Issue.....:	April 28, 2025
Testing Laboratory Name.....:	**Shenzhen LCS Compliance Testing Laboratory Ltd.**
Address.....:	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Testing Location/ Procedure.....:	Full application of Harmonised standards ■ Partial application of Harmonised standards ☐ Other standard testing method ☐
Applicant's Name..... :	**Latsen Technology LTD**
Address..... :	Unit 19A, The Matchworks, Speke Road, Liverpool, L19 2RF, United Kingdom
Test Specification:	
Standard.....:	FCC 47CFR §2.1093 ANSI/IEEE C95.1-2019 IEEE 1528-2013
Test Report Form No..... :	TRF-4-E-102 A/0
TRF Originator.....:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF.....:	Dated 2014-09

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Test Item Description.....:	**Pawfit Lite GPS pet tracker (Pawfit Lite, Pawfit Lite For Cats, Pawfit Lite For Dogs)**
Trade Mark.....:	Pawfit
Model/Type Reference.....:	TR3C
Ratings.....:	Please Refer to Page 8
Result .....:	**Positive**

Compiled by:	Supervised by:	Approved by:
Jay Zhan	Jack Liu	Gavin Liang
Jay Zhan/ File administrators	Jack Liu / Technique principal	Gavin Liang/ Manager

SAR -- TEST REPORT

Test Report No. :	**LCSA09144059EB**	April 28, 2025 Date of issue

EUT.....	:	Pawfit Lite GPS pet tracker (Pawfit Lite, Pawfit Lite For Cats, Pawfit Lite For Dogs)
Type/Model	:	TR3C
Applicant.....	**:**	**Latsen Technology LTD**
Address.....	:	Unit 19A, The Matchworks, Speke Road, Liverpool, L19 2RF, United Kingdom
Telephone.....	:	/
Fax.....	:	/
Manufacturer.....	**:**	**GuangDong ShunDe LeiShun Information Technology Co., Ltd**
Address.....	:	608, floor 6, building 1, poly business center, No. 3, Guotai South Road, Daliang, Shunde District, Foshan City, Guangdong Province, China
Telephone.....	:	/
Fax.....	:	/
Factory.....	**:**	**GuangDong ShunDe LeiShun Information Technology Co., Ltd**
Address.....	:	608, floor 6, building 1, poly business center, No. 3, Guotai South Road, Daliang, Shunde District, Foshan City, Guangdong Province, China
Telephone.....	:	/
Fax.....	:	/

Test Result	**Positive**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revison History

Revision	Issue Date	Revision Content	Revised By
000	April 28, 2025	Initial Issue	---

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1. TEST STANDARDS AND TEST DESCRIPTION

1.1. Statement of Compliance

The maximum of results of SAR found during testing for TR3C are follows:

<Highest Reported standalone SAR Summary>

Classment Class	Frequency Band	Body (Report SAR1-g (W/kg) (Separation Distance 0mm)
PCB	LTE Band 2	0.604
	LTE Band 4	**0.626**
	LTE Band 5	0.434
	LTE Band 7	0.475
	LTE Band 12	0.568
	LTE Band 13	0.546
	LTE Band 41	0.540

Note
1) This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47CFR §2.1093 and ANSI/IEEE C95.1-2019, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.

<Highest Reported simultaneous SAR Summary>

Exposure Position	Classment Class	Body (Report SAR1-g (W/kg)	Highest Reported Simultaneous Transmission SAR1-g (W/kg)
Body	PCB	0.626	**0.679**
	DTS	0.053	

1.2. Test Location

Company: Shenzhen LCS Compliance Testing Laboratory Ltd.
Address: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Telephone: (+86)755-82591330
Fax: (+86)755-82591330
Web: www.LCS-cert.com
E-mail: webmaster@LCS-cert.com

1.3. Test Facility

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

Site Description

SAR Lab. : NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier is CN0071.
CNAS Registration Number is L4595.
Test Firm Registration Number: 254912.

1.4. Test Laboratory Environment

<table>
<tr><td>Temperature</td><td>Min. = 18°C, Max. = 25 °C</td><td rowspan="5">Min. = 18°C, Max. = 25 °C</td></tr>
<tr><td>Relative humidity</td><td>Min. = 30%, Max. = 70%</td></tr>
<tr><td>Ground system resistance</td><td>< 0.5</td></tr>
<tr><td>Atmospheric pressure:</td><td>950-1050mbar</td></tr>
<tr><td colspan="2">Ambient noise is checked and found very low and in compliance with requirement of standards.
Reflection of surrounding objects is minimized and in compliance with requirement of standards.</td></tr>
<tr><td colspan="2">Temperature</td><td rowspan="4">Min. = 30%, Max. = 70%</td></tr>
<tr><td colspan="2">Relative humidity</td></tr>
<tr><td colspan="2">Ground system resistance</td><td>< 0.5</td></tr>
<tr><td colspan="2">Atmospheric pressure:</td><td>950-1050mbar</td></tr>
<tr><td colspan="3">Ambient noise is checked and found very low and in compliance with requirement of standards.
Reflection of surrounding objects is minimized and in compliance with requirement of standards.</td></tr>
</table>

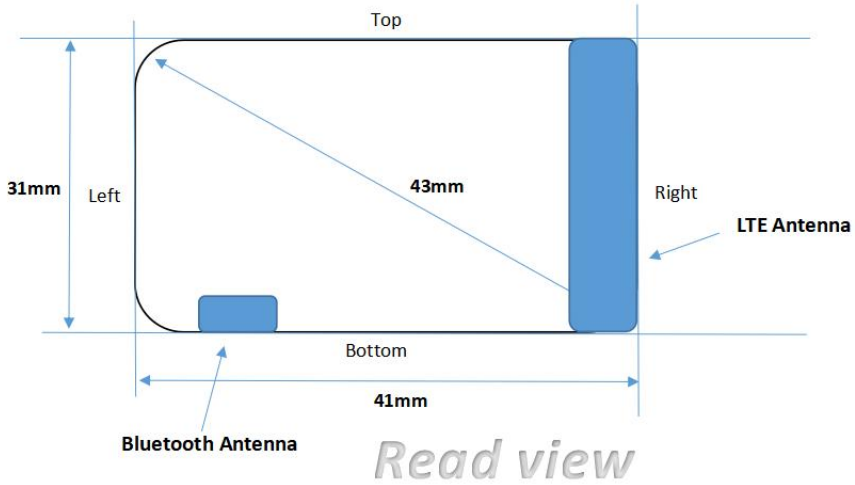
1.5. Product Description

The **Latsen Technology LTD** 's Model: TR3C or the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

EUT	:	Pawfit Lite GPS pet tracker (Pawfit Lite, Pawfit Lite For Cats, Pawfit Lite For Dogs)
Test Model	:	TR3C
Ratings	:	Input: 5V⎓1A Battery: 3.8V⎓400mAh
Hardware Version	:	TR3C_V11
Software Version	:	6.2.3
Bluetooth	:	
Frequency Range	:	2402MHz~2480MHz
Channel Number	:	40 channels for Bluetooth V5.0 (DTS)
Channel Spacing	:	2MHz for Bluetooth V5.0 (DTS)
Modulation Type	:	GFSK for Bluetooth V5.0 (DTS)
Bluetooth Version	:	V5.0
Antenna Description	:	Internal Antenna, 0.12dBi(Max.)
LTE	:	
Support Band	:	☒ E-UTRA Band 2(U.S.-Band) ☒ E-UTRA Band 4(U.S.-Band) ☒ E-UTRA Band 5(U.S.-Band) ☒ E-UTRA Band 7(U.S.-Band) ☒ E-UTRA Band 12(U.S.-Band) ☒ E-UTRA Band 13(U.S.-Band) ☒ E-UTRA Band 41(U.S.-Band)
LTE Release Version	:	R13
Type Of Modulation	:	QPSK/16QAM
Antenna Description	:	Internal Antenna -2.12dBi (max.) For E-UTRA Band 2 -2.85dBi (max.) For E-UTRA Band 4 -5.52dBi (max.) For E-UTRA Band 5 -3.03dBi (max.) For E-UTRA Band 7 -6.48dBi (max.) For E-UTRA Band 12 -8.11dBi (max.) For E-UTRA Band 13 -3.03dBi (max.) For E-UTRA Band 41
Power Class	:	Class 3

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.

1.6. DUT Antenna Locations



1.7. Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D01	General RF Exposure Guidance v06
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03

1.8. RF exposure limits

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

Notes:

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

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

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

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

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

1.9. Equipment list

Test Platform	SPEAG DASY5 Professional					
Description	SAR Test System (Frequency range 300MHz-6GHz)					
Software Reference	DASY52; SEMCAD X					
Hardware Reference						
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
☒	PC	Lenovo	NA	NA	NA[1]	NA[1]
☒	Twin Phantom	SPEAG	SAM V5.0	1850	NA[1]	NA[1]
☒	ELI Phantom	SPEAG	ELI V6.0	2010	NA[1]	NA[1]
☒	DAE	SPEAG	DAE3	373	2025/2/17	2026/2/16
☒	E-Field Probe	SPEAG	EX3DV4	3805	2025/2/25	2026/2/24
☒	Validation Kits	SPEAG	D750V3	1191	2023/6/15	2026/6/14
☒	Validation Kits	SPEAG	D835V2	4d124	2023/10/24	2026/10/23
☒	Validation Kits	SPEAG	D1750V2	1035	2023/6/12	2026/6/11
☒	Validation Kits	SPEAG	D1900V2	5d055	2023/10/20	2026/10/19
☒	Validation Kits	SPEAG	D2600V2	1071	2023/6/20	2026/6/19
☒	Agilent Network Analyzer	Agilent	8753E	SU38432944	2024/6/6	2025/6/5
☒	Dielectric Probe Kit	SPEAG	DAK3.5	1425	2024/10/8	2025/10/7
☒	Universal Radio Communication Tester	R&S	CMW500	42115	2024/10/8	2025/10/7
☒	Directional Coupler	MCLI/USA	4426-20	03746	2024/6/6	2025/6/5
☒	Power meter	Agilent	E4419B	MY45104493	2024/10/8	2025/10/7
☒	Power meter	Agilent	E4419B	MY45100308	2024/10/8	2025/10/7
☒	Power sensor	Agilent	E9301H	MY41495616	2024/10/8	2025/10/7
☒	Power sensor	Agilent	E9301H	MY41495234	2024/10/8	2025/10/7
☒	3dB Attenuator	NA	2N-3dB	NA	2024/10/8	2025/10/7
☒	3dB Attenuator	NA	2N-3dB	NA	2024/10/8	2025/10/7
☒	3dB Attenuator	NA	2N-3dB	NA	2024/10/8	2025/10/7
☒	Signal Generator	Agilent	E4438C	MY49072627	2024/6/6	2025/6/5
☒	Broadband Preamplifier	/	BP-01M18G	P190501	2024/6/6	2025/6/5
☒	DC POWER SUPPLY	I-SHENG	SP-504	NA	2024/6/6	2025/6/5
☒	Speed reading thermometer	HTC-1	NA	LCS-E-138	2024/6/6	2025/6/5

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

“1” : NA as this is not measurement equipment.

2. SAR MEASUREMENTS SYSTEM CONFIGURATION

2.1. SAR Measurement System

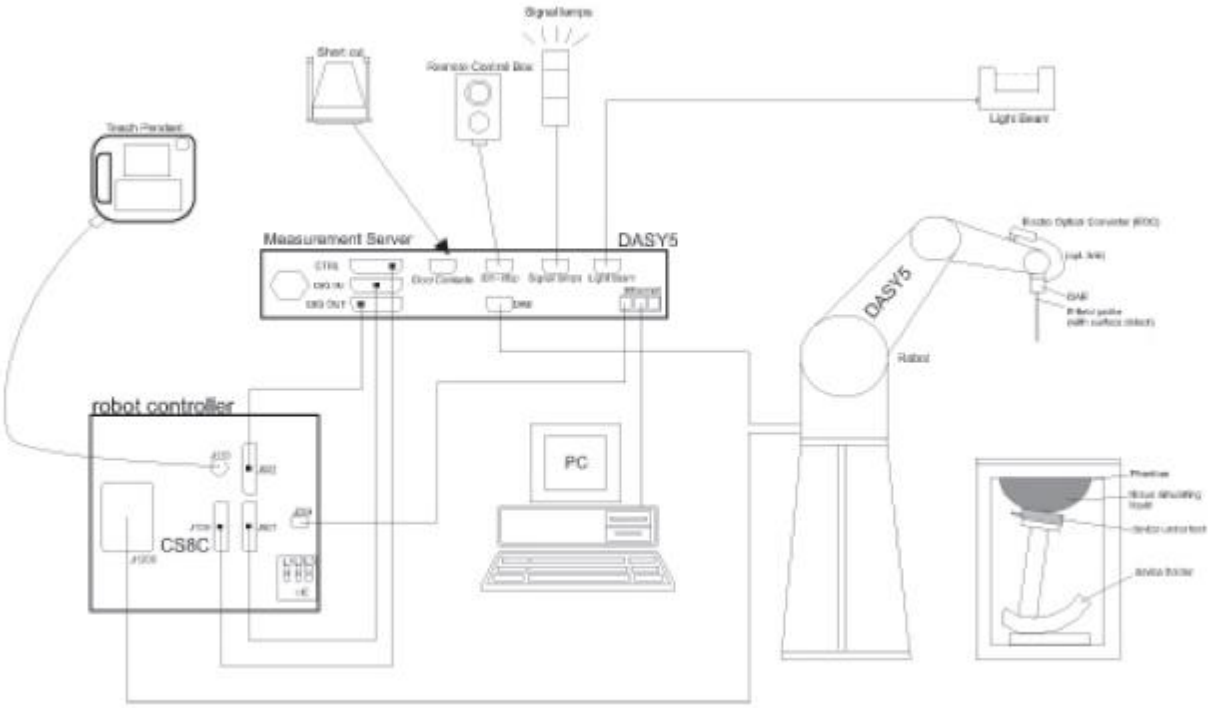
This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the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

The DASY5 system for performing compliance tests consists of the following items:
A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software .An arm extension for accommodation the data acquisition electronics (DAE).

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

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

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



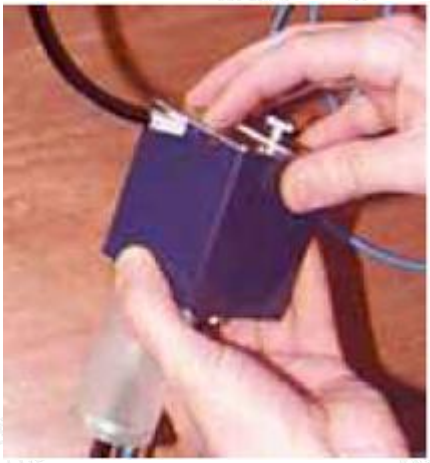
F-1. SAR Measurement System Configuration

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

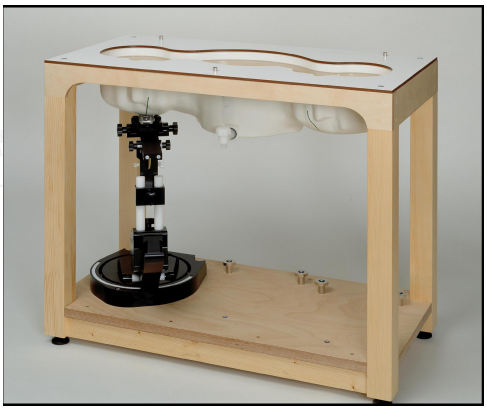
2.2. Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI

2.3. Data Acquisition Electronics (DAE)

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

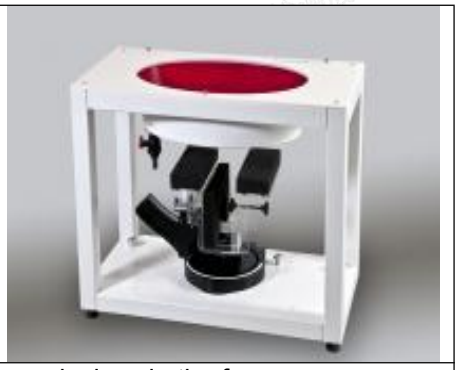
2.4. SAM Twin Phantom

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

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

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

2.5. ELI 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	

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

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

2.6. Device Holder for Transmitters

F-2. **Device Holder for Transmitters**

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

2.7. Measurement procedure

2.7.1. Full SAR testing procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

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

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Step 4: Power reference measurement (drift)

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

2.7.2. Data Storage

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

2.7.3. Data Evaluation by SEMCAD

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

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2
- Conversion factor ConvFi
- Diode compression point Dcpi
Device parameters: - Frequency f
- Crest factor cf
Media parameters: - Conductivity ε
- Density ρ

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

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

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

$$V_i = U_i + U_i^2 \cdot cf / dcp_i$$

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

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

E-field probes:

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

H-field probes:

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

With Vi = compensated signal of channel i (i = x, y, z)
Normi = sensor sensitivity of channel I (i = x, y, z)
[mV/(V/m)2] for E-field Probes
ConvF = sensitivity enhancement in solution
aij = sensor sensitivity factors for H-field probes
f = carrier frequency [GHz]
Ei = electric field strength of channel i in V/m
Hi = magnetic field strength of channel i in A/m

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

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

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

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

with SAR = local specific absorption rate in mW/g
Etot = total field strength in V/m
σ= conductivity in [mho/m] or [Siemens/m]
ε= equivalent tissue density in g/cm3

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

$$P_{pwe} = E_{tot}^2{}_2 / 3770 \quad \text{or} \quad P_{pwe} = H_{tot}^2 \cdot 37.7$$

with Ppwe = equivalent power density of a plane wave in mW/cm2
Etot = total electric field strength in V/m
Htot = total magnetic field strength in A/m

3. SAR measurement variability and uncertainty

3.1. SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.

2) When the original highest measured SAR is ⩾ 0.80 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ⩾ 1.45 W/kg (~ 10% from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ⩾1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

3.2. SAR measurement uncertainty

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

4. Description of Test Position

4.1. Body Exposure Condition

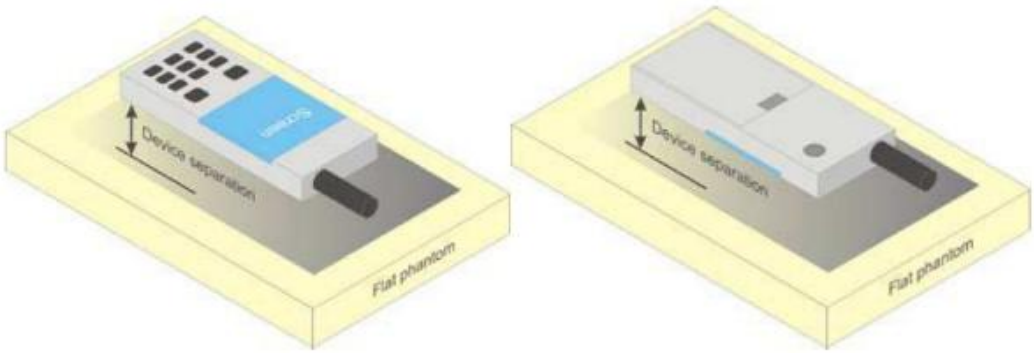
4.1.1. Body-worn accessory exposure conditions

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations.

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

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

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



F-1. **Test positions for body-worn devices**

4.1.2. Wireless Router exposure conditions

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

4.2. Extremity exposure conditions

Per FCC KDB 648474D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the device is marketed as “Phablet”.
The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Due to the SAR result, the Main antenna frequency bands are not required to test with 0mm for the Product Specific 10 g SAR.

5. SAR System Verification Procedure

5.1. Tissue Simulate Liquid

5.1.1. Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	450	700-900	1750-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85
Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ+ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate			Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose		
HSL5GHz is composed of the following ingredients： Water：50-65% Mineral oil：10-30% Emulsifiers：8-25% Sodium salt：0-1.5%					

Table 1： Recipe of Tissue Simulate Liquid

5.1.2. Measurement for Tissue Simulate Liquid

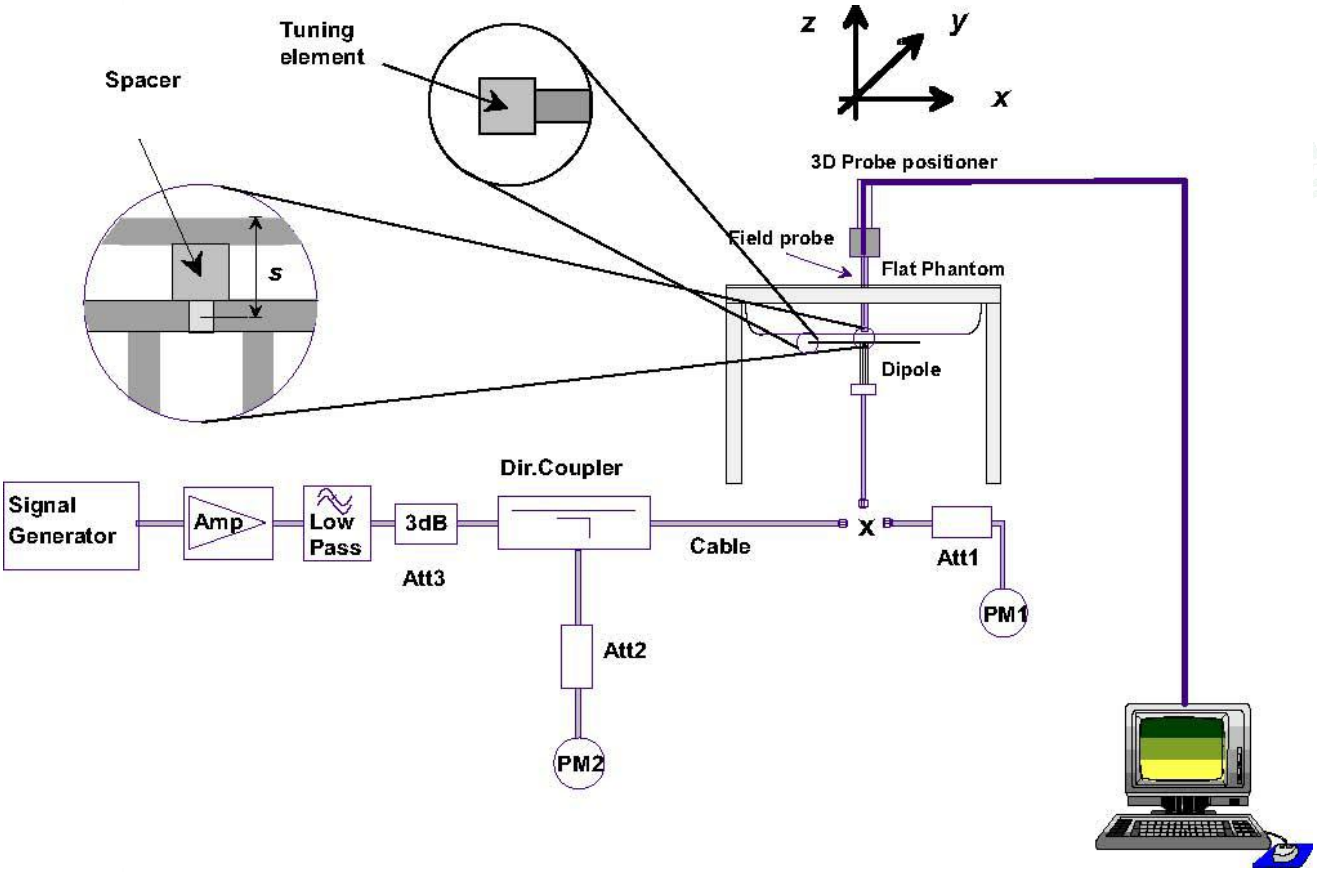
The dielectric properties for this Tissue Simulate Liquids were measured by using the DAKS. The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

Tissue Type	Measured Frequency (MHz)	Target Tissue (±5%)		Measured Tissue		Liquid Temp. (℃)	Measured Date
		ε_r	σ(S/m)	ε_r	σ(S/m)		
750 Head	750	41.9 (39.81~44.00)	0.89 (0.85~0.93)	41.526	0.897	22.1	April 22, 2025
835 Head	835	41.5 (39.43~43.58)	0.9 (0.86~0.95)	41.037	0.914	21.9	April 23, 2025
1750 Head	1750	40.1 (38.10~42.11)	1.37 (1.30~1.44)	39.669	1.401	22.2	April 24, 2025
1900 Head	1900	40 (38.00~42.00)	1.4 (1.33~1.47)	39.237	1.389	21.8	April 25, 2025
2600 Head	2600	39 (37.05~40.95)	1.96 (1.86~2.06)	39.369	1.969	21.9	April 26, 2025

Table 2： Measurement result of Tissue electric parameters

5.2. SAR System Check

The microwave circuit arrangement for system Check is sketched in F-1. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 100mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-1. the microwave circuit arrangement used for SAR system check

5.2.1. Justification for Extended SAR Dipole Calibrations

1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

a) There is no physical damage on the dipole;
b) System check with specific dipole is within 10% of calibrated value;
c) Return-loss is within 20% of calibrated measurement;
d) Impedance is within 5Ω from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.

D750V3 SN 119 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-06-15	-28.9		50.8		-3.54	
2024-06-14	-28.86	-0.14	50.4	-0.4	-3.51	0.03

D835V2 SN 4d124 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-10-24	-35.6		50.2		1.65	
2024-10-23	-35.56	-0.11	49.8	-0.4	1.64	0.01

D1750V2 SN 1035 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-06-12	-38.3		48.8		-0.06	
2024-06-11	-38.54	0.63	48.5	-0.3	-0.04	0.02

D1900V2 SN 5d055 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-10-20	-26.1		51.3		4.84	
2024-10-19	-26.0	-0.38	51.5	0.2	4.85	0.01

D2600V2 SN 1071 Extend Dipole Calibrations

Date of Measurement	Return-Loss (dB)	Delta (%)	Real Impedance (ohm)	Delta (ohm)	Imaginary Impedance (ohm)	Delta (ohm)
2023-06-20	-23.7		48.6		-6.32	
2024-06-19	-23.68	-0.08	48.5	-0.1	-6.30	0.02

5.2.2. Summary System Check Result(s)

Validation Kit		Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W) (±10%)	Target SAR (normalized to 1W) (±10%)	Liquid Temp. (℃)	Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D750V3	Head	0.871	0.556	8.71	5.56	8.57 (7.71~9.43)	5.61 (5.05~6.17)	22.1	April 22, 2025
D835V2	Head	0.962	0.631	9.62	6.31	9.59 (8.63~10.55)	6.37 (5.73~7.01)	21.9	April 23, 2025
D1750V2	Head	3.66	1.85	36.60	18.50	35.9 (32.31~39.49)	18.9 (17.01~20.79)	22.2	April 24, 2025
D1900V2	Head	4.07	2.13	40.70	21.30	40.2 (36.18~44.22)	20.9 (18.81~22.99)	21.8	April 25, 2025
D2600V2	Head	5.71	2.49	57.10	24.90	56.8 (51.12~62.48)	25.5 (22.95~28.05)	21.9	April 27, 2025

Table 3： Please see the Appendix A

6. SAR measurement procedure

The measurement procedures are as follows:

6.1. Conducted power measurement

a. For WWAN power measurement, use base station simulator connection with RF cable, at maximum power in each supported wireless interface and frequency band.
b. Read the WWAN RF power level from the base station simulator.
c. For WLAN power measurement, use engineering software to configure EUT WLAN continuously Transmission, at maximum RF power in each supported wireless interface and frequency band.
d. Connect EUT RF port through RF cable to the power meter, and measure WLAN output power.

6.2. LTE Test Configuration

QPSK with 1 RB allocation
Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.8 When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

QPSK with 50% RB allocation
The procedures required for 1 RB allocation in section 4.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.9

QPSK with 100% RB allocation
For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in sections 4.2.1 and 4.2.2 are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

6.3. Power Reduction

The product without any power reduction.

6.4. Power Drift

To control the output power stability during the SAR test, SAR system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. This ensures that the power drift during one measurement is within ±0.2dB.

7. TEST CONDITIONS AND RESULTS

7.1. Conducted Power Results

According KDB 447498 D01 General RF Exposure Guidance v06 Section 4.1 2) states that "Unless it is specified differently in the published RF exposure KDB procedures, these requirements also apply to test reduction and test exclusion considerations. Time-averaged maximum conducted output power applies to SAR and, as required by § 2.1091(c), time-averaged ERP applies to MPE. When an antenna port is not available on the device to support conducted power measurement, such as FRS and certain Part 15 transmitters with built-in integral antennas, the maximum output power allowed for production units should be used to determine RF exposure test exclusion and compliance."

<GSM Conducted Power>
General Note:
1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. According to October 2013TCB Workshop, for GSM / GPRS / EGPRS, the number of time slots to test for SAR should correspond to the highest frame-average maximum output power configuration, considering the possibility of e.g. 3rd party VoIP operation for head and body-worn SAR testing, the EUT was set in GPRS (4Tx slot) for GSM850/GSM1900 band due to their highest frame-average power.
3. For hotspot mode SAR testing, GPRS should be evaluated, therefore the EUT was set in GPRS (4 Tx slots) for GSM850/GSM1900 band due to its highest frame-average power.

7.1.1. Conducted Power Measurement Results(LTE Band 2)

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Tune Up (dBm)
Band2	1.4MHz	QPSK	18607	1RB#0	21.71	22.00
Band2	1.4MHz	16QAM	18607	1RB#0	21.39	22.00
Band2	1.4MHz	QPSK	18607	1RB#2	21.76	22.00
Band2	1.4MHz	16QAM	18607	1RB#2	20.96	21.00
Band2	1.4MHz	QPSK	18607	1RB#5	21.62	22.00
Band2	1.4MHz	16QAM	18607	1RB#5	20.92	21.00
Band2	1.4MHz	QPSK	18607	3RB#0	21.71	22.00
Band2	1.4MHz	16QAM	18607	3RB#0	21.73	22.00
Band2	1.4MHz	QPSK	18607	3RB#1	21.75	22.00
Band2	1.4MHz	16QAM	18607	3RB#1	21.73	22.00
Band2	1.4MHz	QPSK	18607	3RB#3	21.82	22.00
Band2	1.4MHz	16QAM	18607	3RB#3	21.81	22.00
Band2	1.4MHz	QPSK	18607	6RB#0	20.84	21.00
Band2	1.4MHz	16QAM	18607	6RB#0	20.11	21.00
Band2	1.4MHz	QPSK	18900	1RB#0	21.95	22.00
Band2	1.4MHz	16QAM	18900	1RB#0	21.17	22.00
Band2	1.4MHz	QPSK	18900	1RB#2	21.90	22.00
Band2	1.4MHz	16QAM	18900	1RB#2	21.15	22.00
Band2	1.4MHz	QPSK	18900	1RB#5	21.97	22.00
Band2	1.4MHz	16QAM	18900	1RB#5	21.21	22.00
Band2	1.4MHz	QPSK	18900	3RB#0	22.07	23.00
Band2	1.4MHz	16QAM	18900	3RB#0	22.04	23.00
Band2	1.4MHz	QPSK	18900	3RB#1	22.08	23.00
Band2	1.4MHz	16QAM	18900	3RB#1	21.08	22.00
Band2	1.4MHz	QPSK	18900	3RB#3	21.15	22.00
Band2	1.4MHz	16QAM	18900	3RB#3	21.24	22.00
Band2	1.4MHz	QPSK	18900	6RB#0	20.21	21.00
Band2	1.4MHz	16QAM	18900	6RB#0	19.32	20.00
Band2	1.4MHz	QPSK	19193	1RB#0	22.03	23.00
Band2	1.4MHz	16QAM	19193	1RB#0	21.62	22.00
Band2	1.4MHz	QPSK	19193	1RB#2	22.06	23.00
Band2	1.4MHz	16QAM	19193	1RB#2	21.69	22.00
Band2	1.4MHz	QPSK	19193	1RB#5	22.22	23.00
Band2	1.4MHz	16QAM	19193	1RB#5	21.06	22.00
Band2	1.4MHz	QPSK	19193	3RB#0	22.14	23.00
Band2	1.4MHz	16QAM	19193	3RB#0	22.13	23.00

Band2	1.4MHz	QPSK	19193	3RB#1	22.19	23.00
Band2	1.4MHz	16QAM	19193	3RB#1	22.12	23.00
Band2	1.4MHz	QPSK	19193	3RB#3	22.13	23.00
Band2	1.4MHz	16QAM	19193	3RB#3	22.12	23.00
Band2	1.4MHz	QPSK	19193	6RB#0	21.22	22.00
Band2	1.4MHz	16QAM	19193	6RB#0	20.34	21.00
Band2	3MHz	QPSK	18615	1RB#0	20.85	21.00
Band2	3MHz	16QAM	18615	1RB#0	19.34	20.00
Band2	3MHz	QPSK	18615	1RB#8	20.90	21.00
Band2	3MHz	16QAM	18615	1RB#8	19.28	20.00
Band2	3MHz	QPSK	18615	1RB#14	20.90	21.00
Band2	3MHz	16QAM	18615	1RB#14	19.30	20.00
Band2	3MHz	QPSK	18615	8RB#0	19.85	20.00
Band2	3MHz	16QAM	18615	8RB#0	19.85	20.00
Band2	3MHz	QPSK	18615	8RB#4	19.89	20.00
Band2	3MHz	16QAM	18615	8RB#4	19.89	20.00
Band2	3MHz	QPSK	18615	8RB#7	19.94	20.00
Band2	3MHz	16QAM	18615	8RB#7	19.83	20.00
Band2	3MHz	QPSK	18615	15RB#0	20.01	21.00
Band2	3MHz	16QAM	18615	15RB#0	18.95	19.00
Band2	3MHz	QPSK	18900	1RB#0	20.95	21.00
Band2	3MHz	16QAM	18900	1RB#0	20.65	21.00
Band2	3MHz	QPSK	18900	1RB#8	21.04	22.00
Band2	3MHz	16QAM	18900	1RB#8	20.71	21.00
Band2	3MHz	QPSK	18900	1RB#14	21.07	22.00
Band2	3MHz	16QAM	18900	1RB#14	20.79	21.00
Band2	3MHz	QPSK	18900	8RB#0	20.68	21.00
Band2	3MHz	16QAM	18900	8RB#0	20.72	21.00
Band2	3MHz	QPSK	18900	8RB#4	20.70	21.00
Band2	3MHz	16QAM	18900	8RB#4	20.70	21.00
Band2	3MHz	QPSK	18900	8RB#7	20.73	21.00
Band2	3MHz	16QAM	18900	8RB#7	20.74	21.00
Band2	3MHz	QPSK	18900	15RB#0	20.22	21.00
Band2	3MHz	16QAM	18900	15RB#0	19.39	20.00
Band2	3MHz	QPSK	19185	1RB#0	21.99	22.00
Band2	3MHz	16QAM	19185	1RB#0	21.12	22.00
Band2	3MHz	QPSK	19185	1RB#8	22.06	23.00
Band2	3MHz	16QAM	19185	1RB#8	21.05	22.00
Band2	3MHz	QPSK	19185	1RB#14	22.12	23.00
Band2	3MHz	16QAM	19185	1RB#14	20.99	21.00
Band2	3MHz	QPSK	19185	8RB#0	21.00	22.00
Band2	3MHz	16QAM	19185	8RB#0	20.97	21.00
Band2	3MHz	QPSK	19185	8RB#4	20.98	21.00
Band2	3MHz	16QAM	19185	8RB#4	21.18	22.00
Band2	3MHz	QPSK	19185	8RB#7	21.24	22.00
Band2	3MHz	16QAM	19185	8RB#7	21.21	22.00
Band2	3MHz	QPSK	19185	15RB#0	21.20	22.00
Band2	3MHz	16QAM	19185	15RB#0	20.32	21.00
Band2	5MHz	QPSK	18625	1RB#0	21.03	22.00
Band2	5MHz	16QAM	18625	1RB#0	19.87	20.00
Band2	5MHz	QPSK	18625	1RB#12	21.02	22.00
Band2	5MHz	16QAM	18625	1RB#12	19.81	20.00
Band2	5MHz	QPSK	18625	1RB#24	21.03	22.00
Band2	5MHz	16QAM	18625	1RB#24	19.85	20.00
Band2	5MHz	QPSK	18625	12RB#0	20.09	21.00
Band2	5MHz	16QAM	18625	12RB#0	19.98	20.00
Band2	5MHz	QPSK	18625	12RB#6	19.98	20.00
Band2	5MHz	16QAM	18625	12RB#6	19.98	20.00
Band2	5MHz	QPSK	18625	12RB#13	20.08	21.00
Band2	5MHz	16QAM	18625	12RB#13	19.96	20.00
Band2	5MHz	QPSK	18625	25RB#0	20.09	21.00
Band2	5MHz	16QAM	18625	25RB#0	19.14	20.00
Band2	5MHz	QPSK	18900	1RB#0	21.21	22.00
Band2	5MHz	16QAM	18900	1RB#0	20.06	21.00
Band2	5MHz	QPSK	18900	1RB#12	21.39	22.00
Band2	5MHz	16QAM	18900	1RB#12	20.16	21.00

Band2	5MHz	QPSK	18900	1RB#24	21.40	22.00
Band2	5MHz	16QAM	18900	1RB#24	20.27	21.00
Band2	5MHz	QPSK	18900	12RB#0	20.23	21.00
Band2	5MHz	16QAM	18900	12RB#0	20.23	21.00
Band2	5MHz	QPSK	18900	12RB#6	20.23	21.00
Band2	5MHz	16QAM	18900	12RB#6	20.23	21.00
Band2	5MHz	QPSK	18900	12RB#13	20.32	21.00
Band2	5MHz	16QAM	18900	12RB#13	20.32	21.00
Band2	5MHz	QPSK	18900	25RB#0	20.29	21.00
Band2	5MHz	16QAM	18900	25RB#0	19.44	20.00
Band2	5MHz	QPSK	19175	1RB#0	22.13	23.00
Band2	5MHz	16QAM	19175	1RB#0	20.51	21.00
Band2	5MHz	QPSK	19175	1RB#12	22.17	23.00
Band2	5MHz	16QAM	19175	1RB#12	20.58	21.00
Band2	5MHz	QPSK	19175	1RB#24	22.29	23.00
Band2	5MHz	16QAM	19175	1RB#24	20.64	21.00
Band2	5MHz	QPSK	19175	12RB#0	21.20	22.00
Band2	5MHz	16QAM	19175	12RB#0	21.20	22.00
Band2	5MHz	QPSK	19175	12RB#6	21.20	22.00
Band2	5MHz	16QAM	19175	12RB#6	21.21	22.00
Band2	5MHz	QPSK	19175	12RB#13	21.13	22.00
Band2	5MHz	16QAM	19175	12RB#13	21.21	22.00
Band2	5MHz	QPSK	19175	25RB#0	21.06	22.00
Band2	5MHz	16QAM	19175	25RB#0	20.40	21.00
Band2	10MHz	QPSK	18650	1RB#0	20.81	21.00
Band2	10MHz	16QAM	18650	1RB#0	19.85	20.00
Band2	10MHz	QPSK	18650	1RB#24	20.88	21.00
Band2	10MHz	16QAM	18650	1RB#24	19.92	20.00
Band2	10MHz	QPSK	18650	1RB#49	21.02	22.00
Band2	10MHz	16QAM	18650	1RB#49	19.43	20.00
Band2	10MHz	QPSK	18650	25RB#0	19.92	20.00
Band2	10MHz	16QAM	18650	25RB#0	19.92	20.00
Band2	10MHz	QPSK	18650	25RB#12	19.93	20.00
Band2	10MHz	16QAM	18650	25RB#12	19.93	20.00
Band2	10MHz	QPSK	18650	25RB#25	20.04	21.00
Band2	10MHz	16QAM	18650	25RB#25	20.03	21.00
Band2	10MHz	QPSK	18650	50RB#0	20.12	21.00
Band2	10MHz	16QAM	18650	50RB#0	19.16	20.00
Band2	10MHz	QPSK	18900	1RB#0	21.05	22.00
Band2	10MHz	16QAM	18900	1RB#0	20.03	21.00
Band2	10MHz	QPSK	18900	1RB#24	21.21	22.00
Band2	10MHz	16QAM	18900	1RB#24	20.13	21.00
Band2	10MHz	QPSK	18900	1RB#49	21.38	22.00
Band2	10MHz	16QAM	18900	1RB#49	20.30	21.00
Band2	10MHz	QPSK	18900	25RB#0	20.08	21.00
Band2	10MHz	16QAM	18900	25RB#0	20.14	21.00
Band2	10MHz	QPSK	18900	25RB#12	20.14	21.00
Band2	10MHz	16QAM	18900	25RB#12	20.14	21.00
Band2	10MHz	QPSK	18900	25RB#25	20.39	21.00
Band2	10MHz	16QAM	18900	25RB#25	20.39	21.00
Band2	10MHz	QPSK	18900	50RB#0	20.28	21.00
Band2	10MHz	16QAM	18900	50RB#0	19.40	20.00
Band2	10MHz	QPSK	19150	1RB#0	21.81	22.00
Band2	10MHz	16QAM	19150	1RB#0	20.71	21.00
Band2	10MHz	QPSK	19150	1RB#24	21.99	22.00
Band2	10MHz	16QAM	19150	1RB#24	20.95	21.00
Band2	10MHz	QPSK	19150	1RB#49	22.07	23.00
Band2	10MHz	16QAM	19150	1RB#49	21.01	22.00
Band2	10MHz	QPSK	19150	25RB#0	21.04	22.00
Band2	10MHz	16QAM	19150	25RB#0	21.00	22.00
Band2	10MHz	QPSK	19150	25RB#12	21.00	22.00
Band2	10MHz	16QAM	19150	25RB#12	21.00	22.00
Band2	10MHz	QPSK	19150	25RB#25	21.16	22.00
Band2	10MHz	16QAM	19150	25RB#25	21.18	22.00
Band2	10MHz	QPSK	19150	50RB#0	21.02	22.00
Band2	10MHz	16QAM	19150	50RB#0	20.25	21.00

Band2	15MHz	QPSK	18675	1RB#0	20.42	21.00
Band2	15MHz	16QAM	18675	1RB#0	19.75	20.00
Band2	15MHz	QPSK	18675	1RB#38	20.50	21.00
Band2	15MHz	16QAM	18675	1RB#38	19.92	20.00
Band2	15MHz	QPSK	18675	1RB#74	20.56	21.00
Band2	15MHz	16QAM	18675	1RB#74	19.84	20.00
Band2	15MHz	QPSK	18675	38RB#0	19.74	20.00
Band2	15MHz	16QAM	18675	38RB#0	19.76	20.00
Band2	15MHz	QPSK	18675	38RB#18	19.79	20.00
Band2	15MHz	16QAM	18675	38RB#18	19.81	20.00
Band2	15MHz	QPSK	18675	38RB#37	19.94	20.00
Band2	15MHz	16QAM	18675	38RB#37	19.93	20.00
Band2	15MHz	QPSK	18675	75RB#0	20.00	21.00
Band2	15MHz	16QAM	18675	75RB#0	19.17	20.00
Band2	15MHz	QPSK	18900	1RB#0	21.05	22.00
Band2	15MHz	16QAM	18900	1RB#0	20.03	21.00
Band2	15MHz	QPSK	18900	1RB#38	21.20	22.00
Band2	15MHz	16QAM	18900	1RB#38	20.25	21.00
Band2	15MHz	QPSK	18900	1RB#74	21.44	22.00
Band2	15MHz	16QAM	18900	1RB#74	20.45	21.00
Band2	15MHz	QPSK	18900	38RB#0	20.00	21.00
Band2	15MHz	16QAM	18900	38RB#0	20.04	21.00
Band2	15MHz	QPSK	18900	38RB#18	20.23	21.00
Band2	15MHz	16QAM	18900	38RB#18	20.23	21.00
Band2	15MHz	QPSK	18900	38RB#37	20.43	21.00
Band2	15MHz	16QAM	18900	38RB#37	20.37	21.00
Band2	15MHz	QPSK	18900	75RB#0	20.21	21.00
Band2	15MHz	16QAM	18900	75RB#0	19.35	20.00
Band2	15MHz	QPSK	19125	1RB#0	21.63	22.00
Band2	15MHz	16QAM	19125	1RB#0	20.57	21.00
Band2	15MHz	QPSK	19125	1RB#38	21.90	22.00
Band2	15MHz	16QAM	19125	1RB#38	21.06	22.00
Band2	15MHz	QPSK	19125	1RB#74	22.08	23.00
Band2	15MHz	16QAM	19125	1RB#74	21.25	22.00
Band2	15MHz	QPSK	19125	38RB#0	20.82	21.00
Band2	15MHz	16QAM	19125	38RB#0	20.81	21.00
Band2	15MHz	QPSK	19125	38RB#18	21.02	22.00
Band2	15MHz	16QAM	19125	38RB#18	20.85	21.00
Band2	15MHz	QPSK	19125	38RB#37	21.04	22.00
Band2	15MHz	16QAM	19125	38RB#37	21.04	22.00
Band2	15MHz	QPSK	19125	75RB#0	21.07	22.00
Band2	15MHz	16QAM	19125	75RB#0	20.20	21.00
Band2	20MHz	QPSK	18700	1RB#0	20.84	21.00
Band2	20MHz	16QAM	18700	1RB#0	20.33	21.00
Band2	20MHz	QPSK	18700	1RB#49	20.96	21.00
Band2	20MHz	16QAM	18700	1RB#49	20.58	21.00
Band2	20MHz	QPSK	18700	1RB#99	21.12	22.00
Band2	20MHz	16QAM	18700	1RB#99	20.66	21.00
Band2	20MHz	QPSK	18700	50RB#0	20.00	21.00
Band2	20MHz	16QAM	18700	50RB#0	20.01	21.00
Band2	20MHz	QPSK	18700	50RB#25	20.00	21.00
Band2	20MHz	16QAM	18700	50RB#25	20.00	21.00
Band2	20MHz	QPSK	18700	50RB#50	20.10	21.00
Band2	20MHz	16QAM	18700	50RB#50	20.08	21.00
Band2	20MHz	QPSK	18700	100RB#0	19.99	20.00
Band2	20MHz	16QAM	18700	100RB#0	19.18	20.00
Band2	20MHz	QPSK	18900	1RB#0	21.12	22.00
Band2	20MHz	16QAM	18900	1RB#0	19.97	20.00
Band2	20MHz	QPSK	18900	1RB#49	21.31	22.00
Band2	20MHz	16QAM	18900	1RB#49	20.16	21.00
Band2	20MHz	QPSK	18900	1RB#99	21.61	22.00
Band2	20MHz	16QAM	18900	1RB#99	20.50	21.00
Band2	20MHz	QPSK	18900	50RB#0	20.17	21.00
Band2	20MHz	16QAM	18900	50RB#0	20.16	21.00
Band2	20MHz	QPSK	18900	50RB#25	20.16	21.00
Band2	20MHz	16QAM	18900	50RB#25	20.16	21.00

Band2	20MHz	QPSK	18900	50RB#50	20.46	21.00
Band2	20MHz	16QAM	18900	50RB#50	20.46	21.00
Band2	20MHz	QPSK	18900	100RB#0	20.34	21.00
Band2	20MHz	16QAM	18900	100RB#0	19.49	20.00
Band2	20MHz	QPSK	19100	1RB#0	21.45	22.00
Band2	20MHz	16QAM	19100	1RB#0	20.64	21.00
Band2	20MHz	QPSK	19100	1RB#49	21.79	22.00
Band2	20MHz	16QAM	19100	1RB#49	21.01	22.00
Band2	20MHz	QPSK	19100	1RB#99	22.03	23.00
Band2	20MHz	16QAM	19100	1RB#99	21.32	22.00
Band2	20MHz	QPSK	19100	50RB#0	20.73	21.00
Band2	20MHz	16QAM	19100	50RB#0	20.72	21.00
Band2	20MHz	QPSK	19100	50RB#25	20.72	21.00
Band2	20MHz	16QAM	19100	50RB#25	20.72	21.00
Band2	20MHz	QPSK	19100	50RB#50	21.11	22.00
Band2	20MHz	16QAM	19100	50RB#50	21.11	22.00
Band2	20MHz	QPSK	19100	100RB#0	20.93	21.00
Band2	20MHz	16QAM	19100	100RB#0	20.07	21.00

7.1.2. Conducted Power Measurement Results(LTE Band 4)

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Tune Up (dBm)
Band4	1.4MHz	QPSK	19957	1RB#0	20.80	21.00
Band4	1.4MHz	16QAM	19957	1RB#0	20.57	21.00
Band4	1.4MHz	QPSK	19957	1RB#2	20.80	21.00
Band4	1.4MHz	16QAM	19957	1RB#2	19.95	20.00
Band4	1.4MHz	QPSK	19957	1RB#5	21.04	22.00
Band4	1.4MHz	16QAM	19957	1RB#5	19.93	20.00
Band4	1.4MHz	QPSK	19957	3RB#0	20.85	21.00
Band4	1.4MHz	16QAM	19957	3RB#0	20.93	21.00
Band4	1.4MHz	QPSK	19957	3RB#1	20.92	21.00
Band4	1.4MHz	16QAM	19957	3RB#1	20.91	21.00
Band4	1.4MHz	QPSK	19957	3RB#3	20.87	21.00
Band4	1.4MHz	16QAM	19957	3RB#3	20.94	21.00
Band4	1.4MHz	QPSK	19957	6RB#0	20.07	21.00
Band4	1.4MHz	16QAM	19957	6RB#0	19.22	20.00
Band4	1.4MHz	QPSK	20175	1RB#0	20.23	21.00
Band4	1.4MHz	16QAM	20175	1RB#0	20.07	21.00
Band4	1.4MHz	QPSK	20175	1RB#2	20.24	21.00
Band4	1.4MHz	16QAM	20175	1RB#2	20.11	21.00
Band4	1.4MHz	QPSK	20175	1RB#5	20.29	21.00
Band4	1.4MHz	16QAM	20175	1RB#5	19.69	20.00
Band4	1.4MHz	QPSK	20175	3RB#0	20.24	21.00
Band4	1.4MHz	16QAM	20175	3RB#0	20.26	21.00
Band4	1.4MHz	QPSK	20175	3RB#1	20.21	21.00
Band4	1.4MHz	16QAM	20175	3RB#1	20.26	21.00
Band4	1.4MHz	QPSK	20175	3RB#3	20.29	21.00
Band4	1.4MHz	16QAM	20175	3RB#3	20.28	21.00
Band4	1.4MHz	QPSK	20175	6RB#0	19.44	20.00
Band4	1.4MHz	16QAM	20175	6RB#0	18.78	19.00
Band4	1.4MHz	QPSK	20393	1RB#0	21.76	22.00
Band4	1.4MHz	16QAM	20393	1RB#0	20.59	21.00
Band4	1.4MHz	QPSK	20393	1RB#2	21.86	22.00
Band4	1.4MHz	16QAM	20393	1RB#2	20.73	21.00
Band4	1.4MHz	QPSK	20393	1RB#5	21.64	22.00
Band4	1.4MHz	16QAM	20393	1RB#5	20.67	21.00
Band4	1.4MHz	QPSK	20393	3RB#0	21.54	22.00
Band4	1.4MHz	16QAM	20393	3RB#0	21.58	22.00
Band4	1.4MHz	QPSK	20393	3RB#1	21.59	22.00
Band4	1.4MHz	16QAM	20393	3RB#1	21.59	22.00
Band4	1.4MHz	QPSK	20393	3RB#3	21.60	22.00
Band4	1.4MHz	16QAM	20393	3RB#3	21.58	22.00
Band4	1.4MHz	QPSK	20393	6RB#0	20.62	21.00
Band4	1.4MHz	16QAM	20393	6RB#0	19.93	20.00
Band4	3MHz	QPSK	19965	1RB#0	22.99	23.00
Band4	3MHz	16QAM	19965	1RB#0	21.47	22.00
Band4	3MHz	QPSK	19965	1RB#8	22.91	23.00
Band4	3MHz	16QAM	19965	1RB#8	21.38	22.00
Band4	3MHz	QPSK	19965	1RB#14	22.82	23.00
Band4	3MHz	16QAM	19965	1RB#14	21.31	22.00
Band4	3MHz	QPSK	19965	8RB#0	22.12	23.00
Band4	3MHz	16QAM	19965	8RB#0	22.11	23.00
Band4	3MHz	QPSK	19965	8RB#4	21.99	22.00
Band4	3MHz	16QAM	19965	8RB#4	22.04	23.00
Band4	3MHz	QPSK	19965	8RB#7	21.96	22.00
Band4	3MHz	16QAM	19965	8RB#7	21.95	22.00
Band4	3MHz	QPSK	19965	15RB#0	22.08	23.00
Band4	3MHz	16QAM	19965	15RB#0	21.14	22.00
Band4	3MHz	QPSK	20175	1RB#0	22.05	23.00
Band4	3MHz	16QAM	20175	1RB#0	21.95	22.00
Band4	3MHz	QPSK	20175	1RB#8	22.11	23.00
Band4	3MHz	16QAM	20175	1RB#8	22.04	23.00
Band4	3MHz	QPSK	20175	1RB#14	22.11	23.00
Band4	3MHz	16QAM	20175	1RB#14	21.96	22.00
Band4	3MHz	QPSK	20175	8RB#0	21.99	22.00

Band4	3MHz	16QAM	20175	8RB#0	21.98	22.00
Band4	3MHz	QPSK	20175	8RB#4	21.93	22.00
Band4	3MHz	16QAM	20175	8RB#4	21.98	22.00
Band4	3MHz	QPSK	20175	8RB#7	22.00	23.00
Band4	3MHz	16QAM	20175	8RB#7	22.02	23.00
Band4	3MHz	QPSK	20175	15RB#0	21.38	22.00
Band4	3MHz	16QAM	20175	15RB#0	20.70	21.00
Band4	3MHz	QPSK	20385	1RB#0	22.63	23.00
Band4	3MHz	16QAM	20385	1RB#0	21.80	22.00
Band4	3MHz	QPSK	20385	1RB#8	22.74	23.00
Band4	3MHz	16QAM	20385	1RB#8	21.83	22.00
Band4	3MHz	QPSK	20385	1RB#14	22.76	23.00
Band4	3MHz	16QAM	20385	1RB#14	21.92	22.00
Band4	3MHz	QPSK	20385	8RB#0	21.78	22.00
Band4	3MHz	16QAM	20385	8RB#0	21.73	22.00
Band4	3MHz	QPSK	20385	8RB#4	21.87	22.00
Band4	3MHz	16QAM	20385	8RB#4	21.87	22.00
Band4	3MHz	QPSK	20385	8RB#7	21.89	22.00
Band4	3MHz	16QAM	20385	8RB#7	21.88	22.00
Band4	3MHz	QPSK	20385	15RB#0	22.05	23.00
Band4	3MHz	16QAM	20385	15RB#0	21.16	22.00
Band4	5MHz	QPSK	19975	1RB#0	22.83	23.00
Band4	5MHz	16QAM	19975	1RB#0	22.30	23.00
Band4	5MHz	QPSK	19975	1RB#12	22.72	23.00
Band4	5MHz	16QAM	19975	1RB#12	22.21	23.00
Band4	5MHz	QPSK	19975	1RB#24	22.89	23.00
Band4	5MHz	16QAM	19975	1RB#24	21.79	22.00
Band4	5MHz	QPSK	19975	12RB#0	22.12	23.00
Band4	5MHz	16QAM	19975	12RB#0	22.12	23.00
Band4	5MHz	QPSK	19975	12RB#6	22.12	23.00
Band4	5MHz	16QAM	19975	12RB#6	22.12	23.00
Band4	5MHz	QPSK	19975	12RB#13	21.96	22.00
Band4	5MHz	16QAM	19975	12RB#13	21.96	22.00
Band4	5MHz	QPSK	19975	25RB#0	22.07	23.00
Band4	5MHz	16QAM	19975	25RB#0	21.12	22.00
Band4	5MHz	QPSK	20175	1RB#0	22.43	23.00
Band4	5MHz	16QAM	20175	1RB#0	21.35	22.00
Band4	5MHz	QPSK	20175	1RB#12	22.47	23.00
Band4	5MHz	16QAM	20175	1RB#12	21.38	22.00
Band4	5MHz	QPSK	20175	1RB#24	22.09	23.00
Band4	5MHz	16QAM	20175	1RB#24	21.17	22.00
Band4	5MHz	QPSK	20175	12RB#0	21.44	22.00
Band4	5MHz	16QAM	20175	12RB#0	21.42	22.00
Band4	5MHz	QPSK	20175	12RB#6	21.45	22.00
Band4	5MHz	16QAM	20175	12RB#6	21.41	22.00
Band4	5MHz	QPSK	20175	12RB#13	21.44	22.00
Band4	5MHz	16QAM	20175	12RB#13	21.44	22.00
Band4	5MHz	QPSK	20175	25RB#0	21.33	22.00
Band4	5MHz	16QAM	20175	25RB#0	20.73	21.00
Band4	5MHz	QPSK	20375	1RB#0	22.81	23.00
Band4	5MHz	16QAM	20375	1RB#0	21.39	22.00
Band4	5MHz	QPSK	20375	1RB#12	22.96	23.00
Band4	5MHz	16QAM	20375	1RB#12	21.51	22.00
Band4	5MHz	QPSK	20375	1RB#24	23.06	24.00
Band4	5MHz	16QAM	20375	1RB#24	21.58	22.00
Band4	5MHz	QPSK	20375	12RB#0	21.95	22.00
Band4	5MHz	16QAM	20375	12RB#0	21.96	22.00
Band4	5MHz	QPSK	20375	12RB#6	21.95	22.00
Band4	5MHz	16QAM	20375	12RB#6	21.96	22.00
Band4	5MHz	QPSK	20375	12RB#13	22.08	23.00
Band4	5MHz	16QAM	20375	12RB#13	22.08	23.00
Band4	5MHz	QPSK	20375	25RB#0	21.90	22.00
Band4	5MHz	16QAM	20375	25RB#0	21.25	22.00
Band4	10MHz	QPSK	20000	1RB#0	22.98	23.00
Band4	10MHz	16QAM	20000	1RB#0	22.06	23.00
Band4	10MHz	QPSK	20000	1RB#24	22.78	23.00

Band4	10MHz	16QAM	20000	1RB#24	21.83	22.00
Band4	10MHz	QPSK	20000	1RB#49	22.57	23.00
Band4	10MHz	16QAM	20000	1RB#49	21.69	22.00
Band4	10MHz	QPSK	20000	25RB#0	22.00	23.00
Band4	10MHz	16QAM	20000	25RB#0	22.10	23.00
Band4	10MHz	QPSK	20000	25RB#12	22.10	23.00
Band4	10MHz	16QAM	20000	25RB#12	22.10	23.00
Band4	10MHz	QPSK	20000	25RB#25	21.84	22.00
Band4	10MHz	16QAM	20000	25RB#25	21.83	22.00
Band4	10MHz	QPSK	20000	50RB#0	21.92	22.00
Band4	10MHz	16QAM	20000	50RB#0	21.10	22.00
Band4	10MHz	QPSK	20175	1RB#0	22.35	23.00
Band4	10MHz	16QAM	20175	1RB#0	21.31	22.00
Band4	10MHz	QPSK	20175	1RB#24	22.36	23.00
Band4	10MHz	16QAM	20175	1RB#24	21.35	22.00
Band4	10MHz	QPSK	20175	1RB#49	22.37	23.00
Band4	10MHz	16QAM	20175	1RB#49	21.33	22.00
Band4	10MHz	QPSK	20175	25RB#0	21.43	22.00
Band4	10MHz	16QAM	20175	25RB#0	21.40	22.00
Band4	10MHz	QPSK	20175	25RB#12	21.38	22.00
Band4	10MHz	16QAM	20175	25RB#12	21.37	22.00
Band4	10MHz	QPSK	20175	25RB#25	21.46	22.00
Band4	10MHz	16QAM	20175	25RB#25	21.41	22.00
Band4	10MHz	QPSK	20175	50RB#0	21.39	22.00
Band4	10MHz	16QAM	20175	50RB#0	20.70	21.00
Band4	10MHz	QPSK	20350	1RB#0	22.39	23.00
Band4	10MHz	16QAM	20350	1RB#0	21.60	22.00
Band4	10MHz	QPSK	20350	1RB#24	22.61	23.00
Band4	10MHz	16QAM	20350	1RB#24	21.81	22.00
Band4	10MHz	QPSK	20350	1RB#49	22.88	23.00
Band4	10MHz	16QAM	20350	1RB#49	21.94	22.00
Band4	10MHz	QPSK	20350	25RB#0	21.67	22.00
Band4	10MHz	16QAM	20350	25RB#0	21.76	22.00
Band4	10MHz	QPSK	20350	25RB#12	21.68	22.00
Band4	10MHz	16QAM	20350	25RB#12	21.69	22.00
Band4	10MHz	QPSK	20350	25RB#25	22.00	23.00
Band4	10MHz	16QAM	20350	25RB#25	22.00	23.00
Band4	10MHz	QPSK	20350	50RB#0	21.99	22.00
Band4	10MHz	16QAM	20350	50RB#0	21.05	22.00
Band4	15MHz	QPSK	20025	1RB#0	22.53	23.00
Band4	15MHz	16QAM	20025	1RB#0	21.92	22.00
Band4	15MHz	QPSK	20025	1RB#38	22.18	23.00
Band4	15MHz	16QAM	20025	1RB#38	21.58	22.00
Band4	15MHz	QPSK	20025	1RB#74	21.89	22.00
Band4	15MHz	16QAM	20025	1RB#74	21.36	22.00
Band4	15MHz	QPSK	20025	38RB#0	22.25	23.00
Band4	15MHz	16QAM	20025	38RB#0	22.22	23.00
Band4	15MHz	QPSK	20025	38RB#18	21.97	22.00
Band4	15MHz	16QAM	20025	38RB#18	21.94	22.00
Band4	15MHz	QPSK	20025	38RB#37	21.69	22.00
Band4	15MHz	16QAM	20025	38RB#37	21.36	22.00
Band4	15MHz	QPSK	20025	75RB#0	21.86	22.00
Band4	15MHz	16QAM	20025	75RB#0	20.98	21.00
Band4	15MHz	QPSK	20175	1RB#0	22.40	23.00
Band4	15MHz	16QAM	20175	1RB#0	21.42	22.00
Band4	15MHz	QPSK	20175	1RB#38	22.34	23.00
Band4	15MHz	16QAM	20175	1RB#38	21.33	22.00
Band4	15MHz	QPSK	20175	1RB#74	22.36	23.00
Band4	15MHz	16QAM	20175	1RB#74	21.42	22.00
Band4	15MHz	QPSK	20175	38RB#0	21.97	22.00
Band4	15MHz	16QAM	20175	38RB#0	21.99	22.00
Band4	15MHz	QPSK	20175	38RB#18	21.88	22.00
Band4	15MHz	16QAM	20175	38RB#18	21.95	22.00
Band4	15MHz	QPSK	20175	38RB#37	21.90	22.00
Band4	15MHz	16QAM	20175	38RB#37	21.77	22.00
Band4	15MHz	QPSK	20175	75RB#0	21.41	22.00

Band4	15MHz	16QAM	20175	75RB#0	20.60	21.00
Band4	15MHz	QPSK	20325	1RB#0	22.14	23.00
Band4	15MHz	16QAM	20325	1RB#0	21.29	22.00
Band4	15MHz	QPSK	20325	1RB#38	22.44	23.00
Band4	15MHz	16QAM	20325	1RB#38	21.59	22.00
Band4	15MHz	QPSK	20325	1RB#74	22.80	23.00
Band4	15MHz	16QAM	20325	1RB#74	21.91	22.00
Band4	15MHz	QPSK	20325	38RB#0	21.34	22.00
Band4	15MHz	16QAM	20325	38RB#0	21.39	22.00
Band4	15MHz	QPSK	20325	38RB#18	21.58	22.00
Band4	15MHz	16QAM	20325	38RB#18	21.59	22.00
Band4	15MHz	QPSK	20325	38RB#37	21.88	22.00
Band4	15MHz	16QAM	20325	38RB#37	21.87	22.00
Band4	15MHz	QPSK	20325	75RB#0	21.79	22.00
Band4	15MHz	16QAM	20325	75RB#0	20.98	21.00
Band4	20MHz	QPSK	20050	1RB#0	23.02	24.00
Band4	20MHz	16QAM	20050	1RB#0	22.56	23.00
Band4	20MHz	QPSK	20050	1RB#49	22.61	23.00
Band4	20MHz	16QAM	20050	1RB#49	22.10	23.00
Band4	20MHz	QPSK	20050	1RB#99	22.24	23.00
Band4	20MHz	16QAM	20050	1RB#99	21.87	22.00
Band4	20MHz	QPSK	20050	50RB#0	21.89	22.00
Band4	20MHz	16QAM	20050	50RB#0	21.95	22.00
Band4	20MHz	QPSK	20050	50RB#25	21.84	22.00
Band4	20MHz	16QAM	20050	50RB#25	21.84	22.00
Band4	20MHz	QPSK	20050	50RB#50	21.51	22.00
Band4	20MHz	16QAM	20050	50RB#50	21.46	22.00
Band4	20MHz	QPSK	20050	100RB#0	21.69	22.00
Band4	20MHz	16QAM	20050	100RB#0	20.94	21.00
Band4	20MHz	QPSK	20175	1RB#0	22.22	23.00
Band4	20MHz	16QAM	20175	1RB#0	21.70	22.00
Band4	20MHz	QPSK	20175	1RB#49	22.15	23.00
Band4	20MHz	16QAM	20175	1RB#49	21.19	22.00
Band4	20MHz	QPSK	20175	1RB#99	22.47	23.00
Band4	20MHz	16QAM	20175	1RB#99	21.39	22.00
Band4	20MHz	QPSK	20175	50RB#0	21.38	22.00
Band4	20MHz	16QAM	20175	50RB#0	21.32	22.00
Band4	20MHz	QPSK	20175	50RB#25	21.42	22.00
Band4	20MHz	16QAM	20175	50RB#25	21.40	22.00
Band4	20MHz	QPSK	20175	50RB#50	21.50	22.00
Band4	20MHz	16QAM	20175	50RB#50	21.51	22.00
Band4	20MHz	QPSK	20175	100RB#0	21.53	22.00
Band4	20MHz	16QAM	20175	100RB#0	20.60	21.00
Band4	20MHz	QPSK	20300	1RB#0	22.40	23.00
Band4	20MHz	16QAM	20300	1RB#0	20.65	21.00
Band4	20MHz	QPSK	20300	1RB#49	22.71	23.00
Band4	20MHz	16QAM	20300	1RB#49	21.23	22.00
Band4	20MHz	QPSK	20300	1RB#99	23.22	24.00
Band4	20MHz	16QAM	20300	1RB#99	21.57	22.00
Band4	20MHz	QPSK	20300	50RB#0	21.48	22.00
Band4	20MHz	16QAM	20300	50RB#0	21.44	22.00
Band4	20MHz	QPSK	20300	50RB#25	21.44	22.00
Band4	20MHz	16QAM	20300	50RB#25	21.43	22.00
Band4	20MHz	QPSK	20300	50RB#50	21.96	22.00
Band4	20MHz	16QAM	20300	50RB#50	21.89	22.00
Band4	20MHz	QPSK	20300	100RB#0	21.74	22.00
Band4	20MHz	16QAM	20300	100RB#0	20.96	21.00

7.1.3. Conducted Power Measurement Results(LTE Band 5)

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Tune Up (dBm)
Band5	1.4MHz	QPSK	20407	1RB#0	20.44	21.00
Band5	1.4MHz	16QAM	20407	1RB#0	19.76	20.00
Band5	1.4MHz	QPSK	20407	1RB#2	20.42	21.00
Band5	1.4MHz	16QAM	20407	1RB#2	19.66	20.00
Band5	1.4MHz	QPSK	20407	1RB#5	20.44	21.00
Band5	1.4MHz	16QAM	20407	1RB#5	20.11	21.00
Band5	1.4MHz	QPSK	20407	3RB#0	20.52	21.00
Band5	1.4MHz	16QAM	20407	3RB#0	20.22	21.00
Band5	1.4MHz	QPSK	20407	3RB#1	20.61	21.00
Band5	1.4MHz	16QAM	20407	3RB#1	20.23	21.00
Band5	1.4MHz	QPSK	20407	3RB#3	20.44	21.00
Band5	1.4MHz	16QAM	20407	3RB#3	19.83	20.00
Band5	1.4MHz	QPSK	20407	6RB#0	19.68	20.00
Band5	1.4MHz	16QAM	20407	6RB#0	19.51	20.00
Band5	1.4MHz	QPSK	20525	1RB#0	20.43	21.00
Band5	1.4MHz	16QAM	20525	1RB#0	20.33	21.00
Band5	1.4MHz	QPSK	20525	1RB#2	20.52	21.00
Band5	1.4MHz	16QAM	20525	1RB#2	20.30	21.00
Band5	1.4MHz	QPSK	20525	1RB#5	20.65	21.00
Band5	1.4MHz	16QAM	20525	1RB#5	20.76	21.00
Band5	1.4MHz	QPSK	20525	3RB#0	20.49	21.00
Band5	1.4MHz	16QAM	20525	3RB#0	19.81	20.00
Band5	1.4MHz	QPSK	20525	3RB#1	20.48	21.00
Band5	1.4MHz	16QAM	20525	3RB#1	19.85	20.00
Band5	1.4MHz	QPSK	20525	3RB#3	20.59	21.00
Band5	1.4MHz	16QAM	20525	3RB#3	20.01	21.00
Band5	1.4MHz	QPSK	20525	6RB#0	19.76	20.00
Band5	1.4MHz	16QAM	20525	6RB#0	19.41	20.00
Band5	1.4MHz	QPSK	20643	1RB#0	20.18	21.00
Band5	1.4MHz	16QAM	20643	1RB#0	20.45	21.00
Band5	1.4MHz	QPSK	20643	1RB#2	20.01	21.00
Band5	1.4MHz	16QAM	20643	1RB#2	20.54	21.00
Band5	1.4MHz	QPSK	20643	1RB#5	20.34	21.00
Band5	1.4MHz	16QAM	20643	1RB#5	20.39	21.00
Band5	1.4MHz	QPSK	20643	3RB#0	20.30	21.00
Band5	1.4MHz	16QAM	20643	3RB#0	19.71	20.00
Band5	1.4MHz	QPSK	20643	3RB#1	20.34	21.00
Band5	1.4MHz	16QAM	20643	3RB#1	19.67	20.00
Band5	1.4MHz	QPSK	20643	3RB#3	20.44	21.00
Band5	1.4MHz	16QAM	20643	3RB#3	19.65	20.00
Band5	1.4MHz	QPSK	20643	6RB#0	19.64	20.00
Band5	1.4MHz	16QAM	20643	6RB#0	19.07	20.00
Band5	3MHz	QPSK	20415	1RB#0	20.48	21.00
Band5	3MHz	16QAM	20415	1RB#0	20.16	21.00
Band5	3MHz	QPSK	20415	1RB#8	20.48	21.00
Band5	3MHz	16QAM	20415	1RB#8	19.58	20.00
Band5	3MHz	QPSK	20415	1RB#14	20.33	21.00
Band5	3MHz	16QAM	20415	1RB#14	19.62	20.00
Band5	3MHz	QPSK	20415	8RB#0	19.67	20.00
Band5	3MHz	16QAM	20415	8RB#0	19.38	20.00
Band5	3MHz	16QAM	20415	8RB#4	19.32	20.00
Band5	3MHz	QPSK	20415	8RB#7	19.62	20.00
Band5	3MHz	16QAM	20415	8RB#7	19.31	20.00
Band5	3MHz	QPSK	20415	15RB#0	19.32	20.00
Band5	3MHz	16QAM	20415	15RB#0	19.03	20.00
Band5	3MHz	QPSK	20525	1RB#0	20.48	21.00
Band5	3MHz	16QAM	20525	1RB#0	19.41	20.00
Band5	3MHz	QPSK	20525	1RB#8	20.54	21.00
Band5	3MHz	16QAM	20525	1RB#8	19.44	20.00
Band5	3MHz	QPSK	20525	1RB#14	20.53	21.00
Band5	3MHz	16QAM	20525	1RB#14	19.58	20.00
Band5	3MHz	QPSK	20525	8RB#0	19.75	20.00
Band5	3MHz	16QAM	20525	8RB#0	19.22	20.00

Band5	3MHz	16QAM	20525	8RB#4	19.22	20.00
Band5	3MHz	QPSK	20525	8RB#7	19.70	20.00
Band5	3MHz	16QAM	20525	8RB#7	19.34	20.00
Band5	3MHz	QPSK	20525	15RB#0	19.52	20.00
Band5	3MHz	16QAM	20525	15RB#0	18.98	19.00
Band5	3MHz	QPSK	20635	1RB#0	20.41	21.00
Band5	3MHz	16QAM	20635	1RB#0	20.81	21.00
Band5	3MHz	QPSK	20635	1RB#8	20.34	21.00
Band5	3MHz	16QAM	20635	1RB#8	20.71	21.00
Band5	3MHz	16QAM	20635	1RB#14	20.24	21.00
Band5	3MHz	QPSK	20635	8RB#0	19.40	20.00
Band5	3MHz	16QAM	20635	8RB#0	19.20	20.00
Band5	3MHz	QPSK	20635	8RB#4	19.76	20.00
Band5	3MHz	16QAM	20635	8RB#4	19.14	20.00
Band5	3MHz	QPSK	20635	8RB#7	19.57	20.00
Band5	3MHz	16QAM	20635	8RB#7	19.09	20.00
Band5	3MHz	16QAM	20635	15RB#0	19.26	20.00
Band5	5MHz	QPSK	20425	1RB#0	20.59	21.00
Band5	5MHz	16QAM	20425	1RB#0	19.35	20.00
Band5	5MHz	QPSK	20425	1RB#12	20.69	21.00
Band5	5MHz	16QAM	20425	1RB#12	19.41	20.00
Band5	5MHz	QPSK	20425	1RB#24	20.67	21.00
Band5	5MHz	16QAM	20425	1RB#24	19.49	20.00
Band5	5MHz	QPSK	20425	12RB#0	19.66	20.00
Band5	5MHz	16QAM	20425	12RB#0	19.14	20.00
Band5	5MHz	QPSK	20425	12RB#6	19.50	20.00
Band5	5MHz	16QAM	20425	12RB#6	19.13	20.00
Band5	5MHz	QPSK	20425	12RB#13	19.67	20.00
Band5	5MHz	16QAM	20425	12RB#13	19.02	20.00
Band5	5MHz	QPSK	20425	25RB#0	19.61	20.00
Band5	5MHz	16QAM	20425	25RB#0	19.15	20.00
Band5	5MHz	QPSK	20525	1RB#0	20.14	21.00
Band5	5MHz	16QAM	20525	1RB#0	20.44	21.00
Band5	5MHz	QPSK	20525	1RB#12	20.44	21.00
Band5	5MHz	16QAM	20525	1RB#12	20.51	21.00
Band5	5MHz	QPSK	20525	1RB#24	20.40	21.00
Band5	5MHz	16QAM	20525	1RB#24	20.54	21.00
Band5	5MHz	QPSK	20525	12RB#0	19.48	20.00
Band5	5MHz	16QAM	20525	12RB#0	19.19	20.00
Band5	5MHz	QPSK	20525	12RB#6	19.57	20.00
Band5	5MHz	16QAM	20525	12RB#6	19.22	20.00
Band5	5MHz	QPSK	20525	12RB#13	19.59	20.00
Band5	5MHz	16QAM	20525	12RB#13	19.06	20.00
Band5	5MHz	QPSK	20525	25RB#0	19.67	20.00
Band5	5MHz	16QAM	20525	25RB#0	18.88	19.00
Band5	5MHz	QPSK	20625	1RB#0	20.47	21.00
Band5	5MHz	16QAM	20625	1RB#0	20.00	21.00
Band5	5MHz	QPSK	20625	1RB#12	20.42	21.00
Band5	5MHz	16QAM	20625	1RB#12	20.24	21.00
Band5	5MHz	QPSK	20625	1RB#24	20.51	21.00
Band5	5MHz	16QAM	20625	1RB#24	19.94	20.00
Band5	5MHz	QPSK	20625	12RB#0	19.69	20.00
Band5	5MHz	16QAM	20625	12RB#0	19.17	20.00
Band5	5MHz	QPSK	20625	12RB#6	19.67	20.00
Band5	5MHz	16QAM	20625	12RB#6	18.87	19.00
Band5	5MHz	QPSK	20625	12RB#13	19.59	20.00
Band5	5MHz	16QAM	20625	12RB#13	18.77	19.00
Band5	5MHz	QPSK	20625	25RB#0	19.63	20.00
Band5	5MHz	16QAM	20625	25RB#0	19.16	20.00
Band5	10MHz	QPSK	20450	1RB#0	20.51	21.00
Band5	10MHz	16QAM	20450	1RB#0	20.17	21.00
Band5	10MHz	QPSK	20450	1RB#24	20.42	21.00
Band5	10MHz	16QAM	20450	1RB#24	20.21	21.00
Band5	10MHz	QPSK	20450	1RB#49	20.45	21.00
Band5	10MHz	16QAM	20450	1RB#49	20.23	21.00
Band5	10MHz	QPSK	20450	25RB#0	19.63	20.00

Band5	10MHz	16QAM	20450	25RB#0	19.21	20.00
Band5	10MHz	QPSK	20450	25RB#12	19.50	20.00
Band5	10MHz	16QAM	20450	25RB#12	19.21	20.00
Band5	10MHz	QPSK	20450	25RB#25	19.51	20.00
Band5	10MHz	16QAM	20450	25RB#25	19.02	20.00
Band5	10MHz	QPSK	20450	50RB#0	19.43	20.00
Band5	10MHz	16QAM	20450	50RB#0	19.01	20.00
Band5	10MHz	QPSK	20525	1RB#0	20.47	21.00
Band5	10MHz	16QAM	20525	1RB#0	20.13	21.00
Band5	10MHz	QPSK	20525	1RB#24	20.56	21.00
Band5	10MHz	16QAM	20525	1RB#24	19.28	20.00
Band5	10MHz	QPSK	20525	1RB#49	20.43	21.00
Band5	10MHz	16QAM	20525	1RB#49	19.48	20.00
Band5	10MHz	QPSK	20525	25RB#0	19.50	20.00
Band5	10MHz	16QAM	20525	25RB#0	19.19	20.00
Band5	10MHz	QPSK	20525	25RB#12	19.60	20.00
Band5	10MHz	16QAM	20525	25RB#12	19.20	20.00
Band5	10MHz	QPSK	20525	25RB#25	19.51	20.00
Band5	10MHz	16QAM	20525	25RB#25	19.20	20.00
Band5	10MHz	QPSK	20525	50RB#0	19.48	20.00
Band5	10MHz	16QAM	20525	50RB#0	19.10	20.00
Band5	10MHz	QPSK	20600	1RB#0	20.59	21.00
Band5	10MHz	16QAM	20600	1RB#0	20.70	21.00
Band5	10MHz	QPSK	20600	1RB#24	20.47	21.00
Band5	10MHz	16QAM	20600	1RB#24	20.63	21.00
Band5	10MHz	QPSK	20600	1RB#49	20.28	21.00
Band5	10MHz	16QAM	20600	1RB#49	20.27	21.00
Band5	10MHz	QPSK	20600	25RB#0	19.71	20.00
Band5	10MHz	16QAM	20600	25RB#0	19.26	20.00
Band5	10MHz	QPSK	20600	25RB#12	19.67	20.00
Band5	10MHz	16QAM	20600	25RB#12	19.26	20.00
Band5	10MHz	QPSK	20600	25RB#25	19.55	20.00
Band5	10MHz	16QAM	20600	25RB#25	19.20	20.00
Band5	10MHz	QPSK	20600	50RB#0	19.60	20.00
Band5	10MHz	16QAM	20600	50RB#0	19.29	20.00
Band5	3MHz	QPSK	20415	8RB#4	19.67	20.00
Band5	3MHz	QPSK	20525	8RB#4	19.48	20.00
Band5	3MHz	QPSK	20635	1RB#14	20.15	21.00
Band5	3MHz	QPSK	20635	15RB#0	19.55	20.00

7.1.4. Conducted Power Measurement Results(LTE Band 7)

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Tune Up (dBm)
Band7	5MHz	QPSK	20775	1RB#0	20.97	21.00
Band7	5MHz	16QAM	20775	1RB#0	19.71	20.00
Band7	5MHz	QPSK	20775	1RB#12	21.18	22.00
Band7	5MHz	16QAM	20775	1RB#12	19.48	20.00
Band7	5MHz	QPSK	20775	1RB#24	21.35	22.00
Band7	5MHz	16QAM	20775	1RB#24	19.58	20.00
Band7	5MHz	QPSK	20775	12RB#0	20.21	21.00
Band7	5MHz	16QAM	20775	12RB#0	19.35	20.00
Band7	5MHz	QPSK	20775	12RB#6	20.09	21.00
Band7	5MHz	16QAM	20775	12RB#6	19.32	20.00
Band7	5MHz	QPSK	20775	12RB#13	20.16	21.00
Band7	5MHz	16QAM	20775	12RB#13	19.37	20.00
Band7	5MHz	QPSK	20775	25RB#0	20.18	21.00
Band7	5MHz	16QAM	20775	25RB#0	19.53	20.00
Band7	5MHz	QPSK	21100	1RB#0	20.55	21.00
Band7	5MHz	16QAM	21100	1RB#0	20.06	21.00
Band7	5MHz	QPSK	21100	1RB#12	20.67	21.00
Band7	5MHz	16QAM	21100	1RB#12	20.27	21.00
Band7	5MHz	QPSK	21100	1RB#24	20.60	21.00
Band7	5MHz	16QAM	21100	1RB#24	20.17	21.00
Band7	5MHz	QPSK	21100	12RB#0	19.95	20.00
Band7	5MHz	16QAM	21100	12RB#0	19.10	20.00
Band7	5MHz	QPSK	21100	12RB#6	19.93	20.00
Band7	5MHz	16QAM	21100	12RB#6	19.07	20.00
Band7	5MHz	QPSK	21100	12RB#13	19.87	20.00
Band7	5MHz	16QAM	21100	12RB#13	19.01	20.00
Band7	5MHz	QPSK	21100	25RB#0	19.88	20.00
Band7	5MHz	16QAM	21100	25RB#0	19.13	20.00
Band7	5MHz	QPSK	21425	1RB#0	20.98	21.00
Band7	5MHz	16QAM	21425	1RB#0	19.78	20.00
Band7	5MHz	QPSK	21425	1RB#12	20.92	21.00
Band7	5MHz	16QAM	21425	1RB#12	19.76	20.00
Band7	5MHz	QPSK	21425	1RB#24	20.95	21.00
Band7	5MHz	16QAM	21425	1RB#24	19.73	20.00
Band7	5MHz	QPSK	21425	12RB#0	20.16	21.00
Band7	5MHz	16QAM	21425	12RB#0	19.30	20.00
Band7	5MHz	QPSK	21425	12RB#6	20.12	21.00
Band7	5MHz	16QAM	21425	12RB#6	19.33	20.00
Band7	5MHz	QPSK	21425	12RB#13	20.16	21.00
Band7	5MHz	16QAM	21425	12RB#13	19.32	20.00
Band7	5MHz	QPSK	21425	25RB#0	20.14	21.00
Band7	5MHz	16QAM	21425	25RB#0	19.47	20.00
Band7	10MHz	QPSK	20800	1RB#0	21.50	22.00
Band7	10MHz	16QAM	20800	1RB#0	21.01	22.00
Band7	10MHz	QPSK	20800	1RB#24	21.58	22.00
Band7	10MHz	16QAM	20800	1RB#24	20.82	21.00
Band7	10MHz	QPSK	20800	1RB#49	21.64	22.00
Band7	10MHz	16QAM	20800	1RB#49	20.81	21.00
Band7	10MHz	QPSK	20800	25RB#0	21.01	22.00
Band7	10MHz	16QAM	20800	25RB#0	20.22	21.00
Band7	10MHz	QPSK	20800	25RB#12	21.02	22.00
Band7	10MHz	16QAM	20800	25RB#12	20.21	21.00
Band7	10MHz	QPSK	20800	25RB#25	21.00	22.00
Band7	10MHz	16QAM	20800	25RB#25	20.17	21.00
Band7	10MHz	QPSK	20800	50RB#0	20.94	21.00
Band7	10MHz	16QAM	20800	50RB#0	20.16	21.00
Band7	10MHz	QPSK	21100	1RB#0	21.81	22.00
Band7	10MHz	16QAM	21100	1RB#0	20.92	21.00
Band7	10MHz	QPSK	21100	1RB#24	21.78	22.00
Band7	10MHz	16QAM	21100	1RB#24	20.92	21.00
Band7	10MHz	QPSK	21100	1RB#49	21.79	22.00
Band7	10MHz	16QAM	21100	1RB#49	20.89	21.00
Band7	10MHz	QPSK	21100	25RB#0	20.91	21.00

Band7	10MHz	16QAM	21100	25RB#0	20.19	21.00
Band7	10MHz	QPSK	21100	25RB#12	20.71	21.00
Band7	10MHz	16QAM	21100	25RB#12	20.20	21.00
Band7	10MHz	QPSK	21100	25RB#25	20.85	21.00
Band7	10MHz	16QAM	21100	25RB#25	20.15	21.00
Band7	10MHz	QPSK	21100	50RB#0	20.63	21.00
Band7	10MHz	16QAM	21100	50RB#0	20.11	21.00
Band7	10MHz	QPSK	21400	1RB#0	21.30	22.00
Band7	10MHz	16QAM	21400	1RB#0	21.30	22.00
Band7	10MHz	QPSK	21400	1RB#24	21.68	22.00
Band7	10MHz	16QAM	21400	1RB#24	21.32	22.00
Band7	10MHz	QPSK	21400	1RB#49	21.85	22.00
Band7	10MHz	16QAM	21400	1RB#49	21.27	22.00
Band7	10MHz	QPSK	21400	25RB#0	21.17	22.00
Band7	10MHz	16QAM	21400	25RB#0	20.56	21.00
Band7	10MHz	QPSK	21400	25RB#12	21.23	22.00
Band7	10MHz	16QAM	21400	25RB#12	20.37	21.00
Band7	10MHz	QPSK	21400	25RB#25	21.23	22.00
Band7	10MHz	16QAM	21400	25RB#25	20.39	21.00
Band7	10MHz	QPSK	21400	50RB#0	21.13	22.00
Band7	10MHz	16QAM	21400	50RB#0	20.34	21.00
Band7	15MHz	QPSK	20825	1RB#0	21.32	22.00
Band7	15MHz	16QAM	20825	1RB#0	21.01	22.00
Band7	15MHz	QPSK	20825	1RB#38	21.31	22.00
Band7	15MHz	16QAM	20825	1RB#38	20.94	21.00
Band7	15MHz	QPSK	20825	1RB#74	21.25	22.00
Band7	15MHz	16QAM	20825	1RB#74	20.90	21.00
Band7	15MHz	QPSK	20825	38RB#0	21.06	22.00
Band7	15MHz	16QAM	20825	38RB#0	21.05	22.00
Band7	15MHz	QPSK	20825	38RB#18	20.96	21.00
Band7	15MHz	16QAM	20825	38RB#18	20.96	21.00
Band7	15MHz	QPSK	20825	38RB#37	21.04	22.00
Band7	15MHz	16QAM	20825	38RB#37	21.04	22.00
Band7	15MHz	QPSK	20825	75RB#0	21.03	22.00
Band7	15MHz	16QAM	20825	75RB#0	20.27	21.00
Band7	15MHz	QPSK	21100	1RB#0	21.35	22.00
Band7	15MHz	16QAM	21100	1RB#0	21.10	22.00
Band7	15MHz	QPSK	21100	1RB#38	21.31	22.00
Band7	15MHz	16QAM	21100	1RB#38	21.07	22.00
Band7	15MHz	QPSK	21100	1RB#74	21.36	22.00
Band7	15MHz	16QAM	21100	1RB#74	21.09	22.00
Band7	15MHz	QPSK	21100	38RB#0	20.89	21.00
Band7	15MHz	16QAM	21100	38RB#0	20.89	21.00
Band7	15MHz	QPSK	21100	38RB#18	20.89	21.00
Band7	15MHz	16QAM	21100	38RB#18	20.96	21.00
Band7	15MHz	QPSK	21100	38RB#37	20.90	21.00
Band7	15MHz	16QAM	21100	38RB#37	20.90	21.00
Band7	15MHz	QPSK	21100	75RB#0	20.90	21.00
Band7	15MHz	16QAM	21100	75RB#0	20.15	21.00
Band7	15MHz	QPSK	21375	1RB#0	21.36	22.00
Band7	15MHz	16QAM	21375	1RB#0	21.12	22.00
Band7	15MHz	QPSK	21375	1RB#38	21.37	22.00
Band7	15MHz	16QAM	21375	1RB#38	21.16	22.00
Band7	15MHz	QPSK	21375	1RB#74	21.57	22.00
Band7	15MHz	16QAM	21375	1RB#74	21.34	22.00
Band7	15MHz	QPSK	21375	38RB#0	21.13	22.00
Band7	15MHz	16QAM	21375	38RB#0	21.12	22.00
Band7	15MHz	QPSK	21375	38RB#18	21.11	22.00
Band7	15MHz	16QAM	21375	38RB#18	21.11	22.00
Band7	15MHz	QPSK	21375	38RB#37	21.21	22.00
Band7	15MHz	16QAM	21375	38RB#37	21.21	22.00
Band7	15MHz	QPSK	21375	75RB#0	21.21	22.00
Band7	15MHz	16QAM	21375	75RB#0	20.43	21.00
Band7	20MHz	QPSK	20850	1RB#0	21.25	22.00
Band7	20MHz	16QAM	20850	1RB#0	20.81	21.00
Band7	20MHz	QPSK	20850	1RB#49	21.21	22.00

Band7	20MHz	16QAM	20850	1RB#49	20.62	21.00
Band7	20MHz	QPSK	20850	1RB#99	21.88	22.00
Band7	20MHz	16QAM	20850	1RB#99	20.50	21.00
Band7	20MHz	QPSK	20850	50RB#0	21.10	22.00
Band7	20MHz	16QAM	20850	50RB#0	20.40	21.00
Band7	20MHz	QPSK	20850	50RB#25	21.09	22.00
Band7	20MHz	16QAM	20850	50RB#25	20.39	21.00
Band7	20MHz	QPSK	20850	50RB#50	21.02	22.00
Band7	20MHz	16QAM	20850	50RB#50	20.35	21.00
Band7	20MHz	QPSK	20850	100RB#0	21.01	22.00
Band7	20MHz	16QAM	20850	100RB#0	20.25	21.00
Band7	20MHz	QPSK	21100	1RB#0	21.80	22.00
Band7	20MHz	16QAM	21100	1RB#0	21.59	22.00
Band7	20MHz	QPSK	21100	1RB#49	21.73	22.00
Band7	20MHz	16QAM	21100	1RB#49	21.54	22.00
Band7	20MHz	QPSK	21100	1RB#99	21.86	22.00
Band7	20MHz	16QAM	21100	1RB#99	21.47	22.00
Band7	20MHz	QPSK	21100	50RB#0	20.92	21.00
Band7	20MHz	16QAM	21100	50RB#0	20.20	21.00
Band7	20MHz	QPSK	21100	50RB#25	20.90	21.00
Band7	20MHz	16QAM	21100	50RB#25	20.21	21.00
Band7	20MHz	QPSK	21100	50RB#50	20.94	21.00
Band7	20MHz	16QAM	21100	50RB#50	20.05	21.00
Band7	20MHz	QPSK	21100	100RB#0	20.93	21.00
Band7	20MHz	16QAM	21100	100RB#0	20.22	21.00
Band7	20MHz	QPSK	21350	1RB#0	21.47	22.00
Band7	20MHz	16QAM	21350	1RB#0	21.08	22.00
Band7	20MHz	QPSK	21350	1RB#49	21.14	22.00
Band7	20MHz	16QAM	21350	1RB#49	21.02	22.00
Band7	20MHz	QPSK	21350	1RB#99	21.87	22.00
Band7	20MHz	16QAM	21350	1RB#99	21.37	22.00
Band7	20MHz	QPSK	21350	50RB#0	21.07	22.00
Band7	20MHz	16QAM	21350	50RB#0	20.52	21.00
Band7	20MHz	QPSK	21350	50RB#25	21.15	22.00
Band7	20MHz	16QAM	21350	50RB#25	20.52	21.00
Band7	20MHz	QPSK	21350	50RB#50	21.14	22.00
Band7	20MHz	16QAM	21350	50RB#50	20.50	21.00
Band7	20MHz	QPSK	21350	100RB#0	21.20	22.00
Band7	20MHz	16QAM	21350	100RB#0	20.40	21.00

7.1.5. Conducted Power Measurement Results(LTE Band 12)

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Tune Up (dBm)
Band12	1.4MHz	QPSK	23017	1RB#0	23.07	24.00
Band12	1.4MHz	16QAM	23017	1RB#0	23.23	24.00
Band12	1.4MHz	QPSK	23017	1RB#2	23.25	24.00
Band12	1.4MHz	16QAM	23017	1RB#2	23.24	24.00
Band12	1.4MHz	QPSK	23017	1RB#5	23.23	24.00
Band12	1.4MHz	16QAM	23017	1RB#5	23.23	24.00
Band12	1.4MHz	QPSK	23017	3RB#0	23.25	24.00
Band12	1.4MHz	16QAM	23017	3RB#0	23.39	24.00
Band12	1.4MHz	QPSK	23017	3RB#1	23.36	24.00
Band12	1.4MHz	16QAM	23017	3RB#1	23.30	24.00
Band12	1.4MHz	QPSK	23017	3RB#3	23.35	24.00
Band12	1.4MHz	16QAM	23017	3RB#3	23.32	24.00
Band12	1.4MHz	QPSK	23017	6RB#0	23.14	24.00
Band12	1.4MHz	16QAM	23017	6RB#0	22.98	23.00
Band12	1.4MHz	QPSK	23095	1RB#0	23.07	24.00
Band12	1.4MHz	16QAM	23095	1RB#0	22.95	23.00
Band12	1.4MHz	QPSK	23095	1RB#2	23.20	24.00
Band12	1.4MHz	16QAM	23095	1RB#2	23.02	24.00
Band12	1.4MHz	QPSK	23095	1RB#5	23.24	24.00
Band12	1.4MHz	16QAM	23095	1RB#5	22.97	23.00
Band12	1.4MHz	QPSK	23095	3RB#0	23.20	24.00
Band12	1.4MHz	16QAM	23095	3RB#0	22.53	23.00
Band12	1.4MHz	QPSK	23095	3RB#1	23.21	24.00
Band12	1.4MHz	16QAM	23095	3RB#1	22.56	23.00
Band12	1.4MHz	QPSK	23095	3RB#3	23.18	24.00
Band12	1.4MHz	16QAM	23095	3RB#3	21.85	22.00
Band12	1.4MHz	QPSK	23095	6RB#0	22.35	23.00
Band12	1.4MHz	16QAM	23095	6RB#0	21.68	22.00
Band12	1.4MHz	QPSK	23173	1RB#0	23.13	24.00
Band12	1.4MHz	16QAM	23173	1RB#0	21.73	22.00
Band12	1.4MHz	QPSK	23173	1RB#2	23.03	24.00
Band12	1.4MHz	16QAM	23173	1RB#2	22.25	23.00
Band12	1.4MHz	QPSK	23173	1RB#5	23.17	24.00
Band12	1.4MHz	16QAM	23173	1RB#5	22.22	23.00
Band12	1.4MHz	QPSK	23173	3RB#0	23.15	24.00
Band12	1.4MHz	16QAM	23173	3RB#0	22.37	23.00
Band12	1.4MHz	QPSK	23173	3RB#1	23.15	24.00
Band12	1.4MHz	16QAM	23173	3RB#1	22.07	23.00
Band12	1.4MHz	QPSK	23173	3RB#3	23.10	24.00
Band12	1.4MHz	16QAM	23173	3RB#3	22.04	23.00
Band12	1.4MHz	QPSK	23173	6RB#0	22.27	23.00
Band12	1.4MHz	16QAM	23173	6RB#0	21.43	22.00
Band12	3MHz	QPSK	23025	1RB#0	23.27	24.00
Band12	3MHz	16QAM	23025	1RB#0	22.20	23.00
Band12	3MHz	QPSK	23025	1RB#8	23.17	24.00
Band12	3MHz	16QAM	23025	1RB#8	22.19	23.00
Band12	3MHz	QPSK	23025	1RB#14	23.24	24.00
Band12	3MHz	16QAM	23025	1RB#14	22.07	23.00
Band12	3MHz	QPSK	23025	8RB#0	22.43	23.00
Band12	3MHz	16QAM	23025	8RB#0	21.69	22.00
Band12	3MHz	QPSK	23025	8RB#4	22.43	23.00
Band12	3MHz	16QAM	23025	8RB#4	21.70	22.00
Band12	3MHz	QPSK	23025	8RB#7	22.37	23.00
Band12	3MHz	16QAM	23025	8RB#7	21.66	22.00
Band12	3MHz	QPSK	23025	15RB#0	22.40	23.00
Band12	3MHz	16QAM	23025	15RB#0	21.58	22.00
Band12	3MHz	QPSK	23095	1RB#0	23.16	24.00
Band12	3MHz	16QAM	23095	1RB#0	22.05	23.00
Band12	3MHz	QPSK	23095	1RB#8	23.13	24.00
Band12	3MHz	16QAM	23095	1RB#8	22.25	23.00
Band12	3MHz	QPSK	23095	1RB#14	23.30	24.00
Band12	3MHz	16QAM	23095	1RB#14	22.21	23.00
Band12	3MHz	QPSK	23095	8RB#0	22.13	23.00

Band12	3MHz	16QAM	23095	8RB#0	21.54	22.00
Band12	3MHz	QPSK	23095	8RB#4	22.14	23.00
Band12	3MHz	16QAM	23095	8RB#4	21.54	22.00
Band12	3MHz	QPSK	23095	8RB#7	22.15	23.00
Band12	3MHz	16QAM	23095	8RB#7	21.67	22.00
Band12	3MHz	QPSK	23095	15RB#0	22.16	23.00
Band12	3MHz	16QAM	23095	15RB#0	21.24	22.00
Band12	3MHz	QPSK	23165	1RB#0	23.04	24.00
Band12	3MHz	16QAM	23165	1RB#0	22.69	23.00
Band12	3MHz	QPSK	23165	1RB#8	23.00	24.00
Band12	3MHz	16QAM	23165	1RB#8	22.57	23.00
Band12	3MHz	QPSK	23165	1RB#14	22.98	23.00
Band12	3MHz	16QAM	23165	1RB#14	22.52	23.00
Band12	3MHz	QPSK	23165	8RB#0	22.04	23.00
Band12	3MHz	16QAM	23165	8RB#0	21.35	22.00
Band12	3MHz	QPSK	23165	8RB#4	22.04	23.00
Band12	3MHz	16QAM	23165	8RB#4	21.35	22.00
Band12	3MHz	QPSK	23165	8RB#7	22.10	23.00
Band12	3MHz	16QAM	23165	8RB#7	21.41	22.00
Band12	3MHz	QPSK	23165	15RB#0	22.07	23.00
Band12	3MHz	16QAM	23165	15RB#0	21.40	22.00
Band12	5MHz	QPSK	23035	1RB#0	23.25	24.00
Band12	5MHz	16QAM	23035	1RB#0	21.91	22.00
Band12	5MHz	QPSK	23035	1RB#12	23.12	24.00
Band12	5MHz	16QAM	23035	1RB#12	21.88	22.00
Band12	5MHz	QPSK	23035	1RB#24	23.12	24.00
Band12	5MHz	16QAM	23035	1RB#24	21.82	22.00
Band12	5MHz	QPSK	23035	12RB#0	22.38	23.00
Band12	5MHz	16QAM	23035	12RB#0	21.47	22.00
Band12	5MHz	QPSK	23035	12RB#6	22.38	23.00
Band12	5MHz	16QAM	23035	12RB#6	21.47	22.00
Band12	5MHz	QPSK	23035	12RB#13	22.32	23.00
Band12	5MHz	16QAM	23035	12RB#13	21.39	22.00
Band12	5MHz	QPSK	23035	25RB#0	22.31	23.00
Band12	5MHz	16QAM	23035	25RB#0	21.58	22.00
Band12	5MHz	QPSK	23095	1RB#0	22.98	23.00
Band12	5MHz	16QAM	23095	1RB#0	22.51	23.00
Band12	5MHz	QPSK	23095	1RB#12	22.92	23.00
Band12	5MHz	16QAM	23095	1RB#12	22.45	23.00
Band12	5MHz	QPSK	23095	1RB#24	22.91	23.00
Band12	5MHz	16QAM	23095	1RB#24	22.37	23.00
Band12	5MHz	QPSK	23095	12RB#0	22.21	23.00
Band12	5MHz	16QAM	23095	12RB#0	21.35	22.00
Band12	5MHz	QPSK	23095	12RB#6	22.20	23.00
Band12	5MHz	16QAM	23095	12RB#6	21.35	22.00
Band12	5MHz	QPSK	23095	12RB#13	22.20	23.00
Band12	5MHz	16QAM	23095	12RB#13	21.38	22.00
Band12	5MHz	QPSK	23095	25RB#0	22.16	23.00
Band12	5MHz	16QAM	23095	25RB#0	21.41	22.00
Band12	5MHz	QPSK	23155	1RB#0	22.88	23.00
Band12	5MHz	16QAM	23155	1RB#0	21.90	22.00
Band12	5MHz	QPSK	23155	1RB#12	22.81	23.00
Band12	5MHz	16QAM	23155	1RB#12	21.89	22.00
Band12	5MHz	QPSK	23155	1RB#24	22.81	23.00
Band12	5MHz	16QAM	23155	1RB#24	21.91	22.00
Band12	5MHz	QPSK	23155	12RB#0	22.10	23.00
Band12	5MHz	16QAM	23155	12RB#0	21.32	22.00
Band12	5MHz	QPSK	23155	12RB#6	22.14	23.00
Band12	5MHz	16QAM	23155	12RB#6	21.32	22.00
Band12	5MHz	QPSK	23155	12RB#13	22.13	23.00
Band12	5MHz	16QAM	23155	12RB#13	21.13	22.00
Band12	5MHz	QPSK	23155	25RB#0	22.07	23.00
Band12	5MHz	16QAM	23155	25RB#0	21.41	22.00
Band12	10MHz	QPSK	23060	1RB#0	23.17	24.00
Band12	10MHz	16QAM	23060	1RB#0	22.48	23.00
Band12	10MHz	QPSK	23060	1RB#24	23.03	24.00

Band12	10MHz	16QAM	23060	1RB#24	22.06	23.00
Band12	10MHz	QPSK	23060	1RB#49	22.93	23.00
Band12	10MHz	16QAM	23060	1RB#49	21.94	22.00
Band12	10MHz	QPSK	23060	25RB#0	22.24	23.00
Band12	10MHz	16QAM	23060	25RB#0	21.44	22.00
Band12	10MHz	QPSK	23060	25RB#12	22.24	23.00
Band12	10MHz	16QAM	23060	25RB#12	21.44	22.00
Band12	10MHz	QPSK	23060	25RB#25	22.25	23.00
Band12	10MHz	16QAM	23060	25RB#25	21.29	22.00
Band12	10MHz	QPSK	23060	50RB#0	22.23	23.00
Band12	10MHz	16QAM	23060	50RB#0	21.45	22.00
Band12	10MHz	QPSK	23095	1RB#0	23.35	24.00
Band12	10MHz	16QAM	23095	1RB#0	22.32	23.00
Band12	10MHz	QPSK	23095	1RB#24	23.29	24.00
Band12	10MHz	16QAM	23095	1RB#24	21.60	22.00
Band12	10MHz	QPSK	23095	1RB#49	23.01	24.00
Band12	10MHz	16QAM	23095	1RB#49	21.57	22.00
Band12	10MHz	QPSK	23095	25RB#0	22.20	23.00
Band12	10MHz	16QAM	23095	25RB#0	21.49	22.00
Band12	10MHz	QPSK	23095	25RB#12	22.20	23.00
Band12	10MHz	16QAM	23095	25RB#12	21.49	22.00
Band12	10MHz	QPSK	23095	25RB#25	22.24	23.00
Band12	10MHz	16QAM	23095	25RB#25	21.44	22.00
Band12	10MHz	QPSK	23095	50RB#0	22.15	23.00
Band12	10MHz	16QAM	23095	50RB#0	21.49	22.00
Band12	10MHz	QPSK	23130	1RB#0	22.90	23.00
Band12	10MHz	16QAM	23130	1RB#0	22.90	23.00
Band12	10MHz	QPSK	23130	1RB#24	22.88	23.00
Band12	10MHz	16QAM	23130	1RB#24	22.82	23.00
Band12	10MHz	QPSK	23130	1RB#49	22.80	23.00
Band12	10MHz	16QAM	23130	1RB#49	22.79	23.00
Band12	10MHz	QPSK	23130	25RB#0	22.14	23.00
Band12	10MHz	16QAM	23130	25RB#0	21.35	22.00
Band12	10MHz	QPSK	23130	25RB#12	22.17	23.00
Band12	10MHz	16QAM	23130	25RB#12	21.35	22.00
Band12	10MHz	QPSK	23130	25RB#25	22.16	23.00
Band12	10MHz	16QAM	23130	25RB#25	21.37	22.00
Band12	10MHz	QPSK	23130	50RB#0	22.03	23.00
Band12	10MHz	16QAM	23130	50RB#0	21.32	22.00

7.1.6. Conducted Power Measurement Results(LTE Band 13)

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Tune Up (dBm)
Band13	5MHz	QPSK	23205	1RB#0	23.97	24.00
Band13	5MHz	16QAM	23205	1RB#0	22.69	23.00
Band13	5MHz	QPSK	23205	1RB#12	23.97	24.00
Band13	5MHz	16QAM	23205	1RB#12	22.59	23.00
Band13	5MHz	QPSK	23205	1RB#24	23.87	24.00
Band13	5MHz	16QAM	23205	1RB#24	22.59	23.00
Band13	5MHz	QPSK	23205	12RB#0	23.01	24.00
Band13	5MHz	16QAM	23205	12RB#0	23.06	24.00
Band13	5MHz	QPSK	23205	12RB#6	23.02	24.00
Band13	5MHz	16QAM	23205	12RB#6	23.08	24.00
Band13	5MHz	QPSK	23205	12RB#13	23.12	24.00
Band13	5MHz	16QAM	23205	12RB#13	23.12	24.00
Band13	5MHz	QPSK	23205	25RB#0	23.14	24.00
Band13	5MHz	16QAM	23205	25RB#0	22.44	23.00
Band13	5MHz	QPSK	23230	1RB#0	24.05	25.00
Band13	5MHz	16QAM	23230	1RB#0	23.11	24.00
Band13	5MHz	QPSK	23230	1RB#12	23.90	24.00
Band13	5MHz	16QAM	23230	1RB#12	23.07	24.00
Band13	5MHz	QPSK	23230	1RB#24	24.12	25.00
Band13	5MHz	16QAM	23230	1RB#24	23.08	24.00
Band13	5MHz	QPSK	23230	12RB#0	23.12	24.00
Band13	5MHz	16QAM	23230	12RB#0	23.12	24.00
Band13	5MHz	QPSK	23230	12RB#6	23.12	24.00
Band13	5MHz	16QAM	23230	12RB#6	23.03	24.00
Band13	5MHz	QPSK	23230	12RB#13	23.05	24.00
Band13	5MHz	16QAM	23230	12RB#13	23.00	24.00
Band13	5MHz	QPSK	23230	25RB#0	23.06	24.00
Band13	5MHz	16QAM	23230	25RB#0	22.57	23.00
Band13	5MHz	QPSK	23255	1RB#0	24.22	25.00
Band13	5MHz	16QAM	23255	1RB#0	23.21	24.00
Band13	5MHz	QPSK	23255	1RB#12	24.23	25.00
Band13	5MHz	16QAM	23255	1RB#12	23.24	24.00
Band13	5MHz	QPSK	23255	1RB#24	24.02	25.00
Band13	5MHz	16QAM	23255	1RB#24	23.13	24.00
Band13	5MHz	QPSK	23255	12RB#0	23.07	24.00
Band13	5MHz	16QAM	23255	12RB#0	23.00	24.00
Band13	5MHz	QPSK	23255	12RB#6	22.95	23.00
Band13	5MHz	16QAM	23255	12RB#6	22.95	23.00
Band13	5MHz	QPSK	23255	12RB#13	22.94	23.00
Band13	5MHz	16QAM	23255	12RB#13	22.94	23.00
Band13	5MHz	QPSK	23255	25RB#0	23.07	24.00
Band13	5MHz	16QAM	23255	25RB#0	22.36	23.00
Band13	10MHz	QPSK	23230	1RB#0	23.77	24.00
Band13	10MHz	16QAM	23230	1RB#0	22.29	23.00
Band13	10MHz	QPSK	23230	1RB#24	23.69	24.00
Band13	10MHz	16QAM	23230	1RB#24	22.29	23.00
Band13	10MHz	QPSK	23230	1RB#49	23.64	24.00
Band13	10MHz	16QAM	23230	1RB#49	22.20	23.00
Band13	10MHz	QPSK	23230	25RB#0	22.99	23.00
Band13	10MHz	16QAM	23230	25RB#0	22.98	23.00
Band13	10MHz	QPSK	23230	25RB#12	22.98	23.00
Band13	10MHz	16QAM	23230	25RB#12	22.98	23.00
Band13	10MHz	QPSK	23230	25RB#25	22.94	23.00
Band13	10MHz	16QAM	23230	25RB#25	22.94	23.00
Band13	10MHz	QPSK	23230	50RB#0	22.95	23.00
Band13	10MHz	16QAM	23230	50RB#0	22.19	23.00

7.1.7. Conducted Power Measurement Results(LTE Band 41)

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Tune Up (dBm)
Band41	5MHz	QPSK	39675	1RB#0	21.17	22.00
Band41	5MHz	16QAM	39675	1RB#0	20.83	21.00
Band41	5MHz	QPSK	39675	1RB#12	21.22	22.00
Band41	5MHz	16QAM	39675	1RB#12	21.18	22.00
Band41	5MHz	QPSK	39675	1RB#24	21.18	22.00
Band41	5MHz	16QAM	39675	1RB#24	20.87	21.00
Band41	5MHz	QPSK	39675	12RB#0	20.35	21.00
Band41	5MHz	16QAM	39675	12RB#0	19.80	20.00
Band41	5MHz	QPSK	39675	12RB#6	20.35	21.00
Band41	5MHz	16QAM	39675	12RB#6	19.81	20.00
Band41	5MHz	QPSK	39675	12RB#13	20.39	21.00
Band41	5MHz	16QAM	39675	12RB#13	19.80	20.00
Band41	5MHz	QPSK	39675	25RB#0	20.39	21.00
Band41	5MHz	16QAM	39675	25RB#0	19.61	20.00
Band41	5MHz	QPSK	40620	1RB#0	21.90	22.00
Band41	5MHz	16QAM	40620	1RB#0	21.98	22.00
Band41	5MHz	QPSK	40620	1RB#12	21.80	22.00
Band41	5MHz	16QAM	40620	1RB#12	21.38	22.00
Band41	5MHz	QPSK	40620	1RB#24	21.89	22.00
Band41	5MHz	16QAM	40620	1RB#24	21.29	22.00
Band41	5MHz	QPSK	40620	12RB#0	20.89	21.00
Band41	5MHz	16QAM	40620	12RB#0	20.27	21.00
Band41	5MHz	QPSK	40620	12RB#6	20.89	21.00
Band41	5MHz	16QAM	40620	12RB#6	20.12	21.00
Band41	5MHz	QPSK	40620	12RB#13	20.86	21.00
Band41	5MHz	16QAM	40620	12RB#13	20.06	21.00
Band41	5MHz	QPSK	40620	25RB#0	20.76	21.00
Band41	5MHz	16QAM	40620	25RB#0	20.30	21.00
Band41	5MHz	QPSK	41565	1RB#0	21.29	22.00
Band41	5MHz	16QAM	41565	1RB#0	20.93	21.00
Band41	5MHz	QPSK	41565	1RB#12	21.19	22.00
Band41	5MHz	16QAM	41565	1RB#12	21.14	22.00
Band41	5MHz	QPSK	41565	1RB#24	21.27	22.00
Band41	5MHz	16QAM	41565	1RB#24	20.57	21.00
Band41	5MHz	QPSK	41565	12RB#0	20.22	21.00
Band41	5MHz	16QAM	41565	12RB#0	19.57	20.00
Band41	5MHz	QPSK	41565	12RB#6	20.23	21.00
Band41	5MHz	16QAM	41565	12RB#6	19.66	20.00
Band41	5MHz	QPSK	41565	12RB#13	20.34	21.00
Band41	5MHz	16QAM	41565	12RB#13	19.57	20.00
Band41	5MHz	QPSK	41565	25RB#0	20.40	21.00
Band41	5MHz	16QAM	41565	25RB#0	19.66	20.00
Band41	10MHz	QPSK	39700	1RB#0	21.66	22.00
Band41	10MHz	16QAM	39700	1RB#0	21.19	22.00
Band41	10MHz	QPSK	39700	1RB#24	21.71	22.00
Band41	10MHz	16QAM	39700	1RB#24	21.16	22.00
Band41	10MHz	QPSK	39700	1RB#49	21.73	22.00
Band41	10MHz	16QAM	39700	1RB#49	21.24	22.00
Band41	10MHz	QPSK	39700	25RB#0	20.77	21.00
Band41	10MHz	16QAM	39700	25RB#0	20.08	21.00
Band41	10MHz	QPSK	39700	25RB#12	20.78	21.00
Band41	10MHz	16QAM	39700	25RB#12	20.08	21.00
Band41	10MHz	QPSK	39700	25RB#25	20.72	21.00
Band41	10MHz	16QAM	39700	25RB#25	20.10	21.00
Band41	10MHz	QPSK	39700	50RB#0	20.68	21.00
Band41	10MHz	16QAM	39700	50RB#0	20.08	21.00
Band41	10MHz	QPSK	40620	1RB#0	22.22	23.00
Band41	10MHz	16QAM	40620	1RB#0	22.08	23.00
Band41	10MHz	QPSK	40620	1RB#24	22.15	23.00
Band41	10MHz	16QAM	40620	1RB#24	21.42	22.00
Band41	10MHz	QPSK	40620	1RB#49	21.74	22.00
Band41	10MHz	16QAM	40620	1RB#49	21.26	22.00
Band41	10MHz	QPSK	40620	25RB#0	20.86	21.00

Band41	10MHz	16QAM	40620	25RB#0	20.27	21.00
Band41	10MHz	QPSK	40620	25RB#12	20.87	21.00
Band41	10MHz	16QAM	40620	25RB#12	20.21	21.00
Band41	10MHz	QPSK	40620	25RB#25	20.88	21.00
Band41	10MHz	16QAM	40620	25RB#25	20.14	21.00
Band41	10MHz	QPSK	40620	50RB#0	20.79	21.00
Band41	10MHz	16QAM	40620	50RB#0	20.16	21.00
Band41	10MHz	QPSK	41540	1RB#0	21.58	22.00
Band41	10MHz	16QAM	41540	1RB#0	21.30	22.00
Band41	10MHz	QPSK	41540	1RB#24	21.42	22.00
Band41	10MHz	16QAM	41540	1RB#24	21.27	22.00
Band41	10MHz	QPSK	41540	1RB#49	21.52	22.00
Band41	10MHz	16QAM	41540	1RB#49	21.28	22.00
Band41	10MHz	QPSK	41540	25RB#0	20.42	21.00
Band41	10MHz	16QAM	41540	25RB#0	19.62	20.00
Band41	10MHz	QPSK	41540	25RB#12	20.42	21.00
Band41	10MHz	16QAM	41540	25RB#12	19.66	20.00
Band41	10MHz	QPSK	41540	25RB#25	20.31	21.00
Band41	10MHz	16QAM	41540	25RB#25	19.62	20.00
Band41	10MHz	QPSK	41540	50RB#0	20.47	21.00
Band41	10MHz	16QAM	41540	50RB#0	19.65	20.00
Band41	15MHz	QPSK	39725	1RB#0	21.99	22.00
Band41	15MHz	16QAM	39725	1RB#0	21.95	22.00
Band41	15MHz	QPSK	39725	1RB#38	22.12	23.00
Band41	15MHz	16QAM	39725	1RB#38	21.96	22.00
Band41	15MHz	QPSK	39725	1RB#74	22.15	23.00
Band41	15MHz	16QAM	39725	1RB#74	22.11	23.00
Band41	15MHz	QPSK	39725	38RB#0	21.06	22.00
Band41	15MHz	16QAM	39725	38RB#0	21.06	22.00
Band41	15MHz	QPSK	39725	38RB#18	21.05	22.00
Band41	15MHz	16QAM	39725	38RB#18	21.05	22.00
Band41	15MHz	QPSK	39725	38RB#37	21.05	22.00
Band41	15MHz	16QAM	39725	38RB#37	21.05	22.00
Band41	15MHz	QPSK	39725	75RB#0	21.05	22.00
Band41	15MHz	16QAM	39725	75RB#0	20.34	21.00
Band41	15MHz	QPSK	40620	1RB#0	22.23	23.00
Band41	15MHz	16QAM	40620	1RB#0	22.15	23.00
Band41	15MHz	QPSK	40620	1RB#38	22.13	23.00
Band41	15MHz	16QAM	40620	1RB#38	22.07	23.00
Band41	15MHz	QPSK	40620	1RB#74	22.12	23.00
Band41	15MHz	16QAM	40620	1RB#74	21.96	22.00
Band41	15MHz	QPSK	40620	38RB#0	20.94	21.00
Band41	15MHz	16QAM	40620	38RB#0	20.95	21.00
Band41	15MHz	QPSK	40620	38RB#18	20.84	21.00
Band41	15MHz	16QAM	40620	38RB#18	20.84	21.00
Band41	15MHz	QPSK	40620	38RB#37	20.84	21.00
Band41	15MHz	16QAM	40620	38RB#37	20.85	21.00
Band41	15MHz	QPSK	40620	75RB#0	20.85	21.00
Band41	15MHz	16QAM	40620	75RB#0	20.31	21.00
Band41	15MHz	QPSK	41515	1RB#0	21.56	22.00
Band41	15MHz	16QAM	41515	1RB#0	21.30	22.00
Band41	15MHz	QPSK	41515	1RB#38	21.49	22.00
Band41	15MHz	16QAM	41515	1RB#38	21.31	22.00
Band41	15MHz	QPSK	41515	1RB#74	21.57	22.00
Band41	15MHz	16QAM	41515	1RB#74	21.27	22.00
Band41	15MHz	QPSK	41515	38RB#0	20.47	21.00
Band41	15MHz	16QAM	41515	38RB#0	20.47	21.00
Band41	15MHz	QPSK	41515	38RB#18	20.26	21.00
Band41	15MHz	16QAM	41515	38RB#18	20.26	21.00
Band41	15MHz	QPSK	41515	38RB#37	20.26	21.00
Band41	15MHz	16QAM	41515	38RB#37	20.26	21.00
Band41	15MHz	QPSK	41515	75RB#0	20.26	21.00
Band41	15MHz	16QAM	41515	75RB#0	19.66	20.00
Band41	20MHz	QPSK	39750	1RB#0	21.64	22.00
Band41	20MHz	16QAM	39750	1RB#0	21.22	22.00
Band41	20MHz	QPSK	39750	1RB#49	21.68	22.00

Band41	20MHz	16QAM	39750	1RB#49	21.50	22.00
Band41	20MHz	QPSK	39750	1RB#99	21.80	22.00
Band41	20MHz	16QAM	39750	1RB#99	21.66	22.00
Band41	20MHz	QPSK	39750	50RB#0	20.75	21.00
Band41	20MHz	16QAM	39750	50RB#0	20.19	21.00
Band41	20MHz	QPSK	39750	50RB#25	20.75	21.00
Band41	20MHz	16QAM	39750	50RB#25	20.19	21.00
Band41	20MHz	QPSK	39750	50RB#50	20.70	21.00
Band41	20MHz	16QAM	39750	50RB#50	20.17	21.00
Band41	20MHz	QPSK	39750	100RB#0	20.68	21.00
Band41	20MHz	16QAM	39750	100RB#0	20.16	21.00
Band41	20MHz	QPSK	40620	1RB#0	21.83	22.00
Band41	20MHz	16QAM	40620	1RB#0	22.05	23.00
Band41	20MHz	QPSK	40620	1RB#49	21.70	22.00
Band41	20MHz	16QAM	40620	1RB#49	21.78	22.00
Band41	20MHz	QPSK	40620	1RB#99	21.69	22.00
Band41	20MHz	16QAM	40620	1RB#99	21.68	22.00
Band41	20MHz	QPSK	40620	50RB#0	20.96	21.00
Band41	20MHz	16QAM	40620	50RB#0	20.59	21.00
Band41	20MHz	QPSK	40620	50RB#25	21.07	22.00
Band41	20MHz	16QAM	40620	50RB#25	20.60	21.00
Band41	20MHz	QPSK	40620	50RB#50	21.06	22.00
Band41	20MHz	16QAM	40620	50RB#50	20.46	21.00
Band41	20MHz	QPSK	40620	100RB#0	20.96	21.00
Band41	20MHz	16QAM	40620	100RB#0	20.34	21.00
Band41	20MHz	QPSK	41490	1RB#0	21.27	22.00
Band41	20MHz	16QAM	41490	1RB#0	21.41	22.00
Band41	20MHz	QPSK	41490	1RB#49	21.22	22.00
Band41	20MHz	16QAM	41490	1RB#49	21.37	22.00
Band41	20MHz	QPSK	41490	1RB#99	21.26	22.00
Band41	20MHz	16QAM	41490	1RB#99	21.42	22.00
Band41	20MHz	QPSK	41490	50RB#0	20.45	21.00
Band41	20MHz	16QAM	41490	50RB#0	19.86	20.00
Band41	20MHz	QPSK	41490	50RB#25	20.36	21.00
Band41	20MHz	16QAM	41490	50RB#25	19.86	20.00
Band41	20MHz	QPSK	41490	50RB#50	20.36	21.00
Band41	20MHz	16QAM	41490	50RB#50	19.91	20.00
Band41	20MHz	QPSK	41490	100RB#0	20.34	21.00
Band41	20MHz	16QAM	41490	100RB#0	19.70	20.00

7.1.8. Conducted Power Measurement Results(Bluetooth)

BLE

TestMode	Antenna	Frequency (MHz)	Conducted Power (dBm)	Tune Up (dBm)
BLE 1M	Ant	2402	-0.03	0.00
BLE 1M	Ant	2440	0.47	1.00
BLE 1M	Ant	2480	-0.4	0.00
BLE 2M	Ant	2402	-0.15	0.00
BLE 2M	Ant	2440	0.33	1.00
BLE 2M	Ant	2480	-0.54	0.00

7.2. SAR Measurement Results

The calculated SAR is obtained by the following formula:

Reported SAR=Measured SAR*$10^{(Ptarget-Pmeasured))/10}$

Scaling factor=$10^{(Ptarget-Pmeasured))/10}$

Reported SAR= Measured SAR* Scaling factor

Where

P_{target} is the power of manufacturing upper limit;

$P_{measured}$ is the measured power;

Measured SAR is measured SAR at measured power which including power drift)

Reported SAR which including Power Drift and Scaling factor

7.2.1. SAR Results [LTE Band 2]

SAR Values [LTE Band 2]									
Ch/ Freq. (MHz)	BW.	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR_{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers - Body (Test data distance 0mm)<1RB>									
19100/1900	20M	QPSK 1RB_99	Front side	22.03	23.00	-0.14	1.250	0.405	0.506
19100/1900	20M	QPSK 1RB_99	Rear side	22.03	23.00	0.10	1.250	**0.483**	**0.604**
19100/1900	20M	QPSK 1RB_99	Left side	22.03	23.00	-0.17	1.250	0.277	0.346
19100/1900	20M	QPSK 1RB_99	Right side	22.03	23.00	-0.12	1.250	0.393	0.491
19100/1900	20M	QPSK 1RB_99	Top side	22.03	23.00	0.08	1.250	0.219	0.274
19100/1900	20M	QPSK 1RB_99	Bottom side	22.03	23.00	-0.10	1.250	0.348	0.435
measured / reported SAR numbers - Body (Test data distance 0mm)<50%RB>									
19100/1900	20M	QPSK 50RB_50	Front side	21.11	22.00	0.03	1.227	0.277	0.340
19100/1900	20M	QPSK 50RB_50	Rear side	21.11	22.00	0.18	1.227	0.330	0.405
19100/1900	20M	QPSK 50RB_50	Left side	21.11	22.00	0.05	1.227	0.189	0.232
19100/1900	20M	QPSK 50RB_50	Right side	21.11	22.00	0.10	1.227	0.268	0.329
19100/1900	20M	QPSK 50RB_50	Top side	21.11	22.00	0.13	1.227	0.149	0.183
19100/1900	20M	QPSK 50RB_50	Bottom side	21.11	22.00	-0.09	1.227	0.238	0.292

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2) Per KDB447498 D01, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

- ≤ 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is ≤ 100MHz.
- ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
- ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.

7.2.2. SAR Results [LTE Band 4]

SAR Values [LTE Band 4]									
Ch/ Freq. (MHz)	BW.	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR_{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers - Body (Test data distance 0mm)<1RB>									
20300/1745	20M	QPSK 1RB_99	Front side	23.22	24.00	0.05	1.197	0.397	0.475
20300/1745	20M	QPSK 1RB_99	Rear side	23.22	24.00	0.06	1.197	**0.523**	**0.626**
20300/1745	20M	QPSK 1RB_99	Left side	23.22	24.00	0.14	1.197	0.308	0.369
20300/1745	20M	QPSK 1RB_99	Right side	23.22	24.00	0.11	1.197	0.383	0.458
20300/1745	20M	QPSK 1RB_99	Top side	23.22	24.00	-0.15	1.197	0.355	0.425
20300/1745	20M	QPSK 1RB_99	Bottom side	23.22	24.00	0.17	1.197	0.415	0.497
measured / reported SAR numbers - Body (Test data distance 0mm)<50%RB>									
20300/1745	20M	QPSK 50RB_50	Front side	21.96	22.00	-0.18	1.009	0.347	0.350
20300/1745	20M	QPSK 50RB_50	Rear side	21.96	22.00	0.08	1.009	0.457	0.461
20300/1745	20M	QPSK 50RB_50	Left side	21.96	22.00	-0.14	1.009	0.269	0.271
20300/1745	20M	QPSK 50RB_50	Right side	21.96	22.00	0.06	1.009	0.335	0.338
20300/1745	20M	QPSK 50RB_50	Top side	21.96	22.00	-0.01	1.009	0.310	0.313
20300/1745	20M	QPSK 50RB_50	Bottom side	21.96	22.00	-0.08	1.009	0.363	0.366

Note:

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

7.2.3. SAR Results [LTE Band 5]

SAR Values [LTE Band 5]									
Ch/ Freq. (MHz)	BW.	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR_{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers - Body (Test data distance 0mm)<1RB>									
20600/844	10M	QPSK 1RB_0	Front side	20.59	21.00	0.03	1.099	0.274	0.301
20600/844	10M	QPSK 1RB_0	Rear side	20.59	21.00	0.08	1.099	**0.395**	**0.434**
20600/844	10M	QPSK 1RB_0	Left side	20.59	21.00	-0.07	1.099	0.208	0.229
20600/844	10M	QPSK 1RB_0	Right side	20.59	21.00	-0.03	1.099	0.287	0.315
20600/844	10M	QPSK 1RB_0	Top side	20.59	21.00	-0.13	1.099	0.222	0.244
20600/844	10M	QPSK 1RB_0	Bottom side	20.59	21.00	0.07	1.099	0.354	0.389
measured / reported SAR numbers - Body (Test data distance 0mm)<50%RB>									
20600/844	10M	QPSK 25RB_0	Front side	19.71	20.00	0.12	1.069	0.220	0.235
20600/844	10M	QPSK 25RB_0	Rear side	19.71	20.00	-0.14	1.069	0.317	0.339
20600/844	10M	QPSK 25RB_0	Left side	19.71	20.00	0.13	1.069	0.167	0.179
20600/844	10M	QPSK 25RB_0	Right side	19.71	20.00	0.12	1.069	0.230	0.246
20600/844	10M	QPSK 25RB_0	Top side	19.71	20.00	0.04	1.069	0.178	0.190
20600/844	10M	QPSK 25RB_0	Bottom side	19.71	20.00	0.03	1.069	0.284	0.304

Note:

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

7.2.4. SAR Results [LTE Band 7]

SAR Values [LTE Band 7]									
Ch/ Freq. (MHz)	BW.	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR_{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers - Body (Test data distance 0mm)<1RB>									
20850/2510	20M	QPSK 1RB_99	Front side	21.88	22.00	0.15	1.028	0.381	0.392
20850/2510	20M	QPSK 1RB_99	Rear side	21.88	22.00	0.17	1.028	**0.462**	**0.475**
20850/2510	20M	QPSK 1RB_99	Left side	21.88	22.00	0.07	1.028	0.264	0.271
20850/2510	20M	QPSK 1RB_99	Right side	21.88	22.00	0.07	1.028	0.379	0.390
20850/2510	20M	QPSK 1RB_99	Top side	21.88	22.00	0.11	1.028	0.318	0.327
20850/2510	20M	QPSK 1RB_99	Bottom side	21.88	22.00	-0.16	1.028	0.387	0.398
measured / reported SAR numbers - Body (Test data distance 0mm)<50%RB>									
21350/2560	20M	QPSK 50RB_25	Front side	21.15	22.00	-0.06	1.216	0.306	0.372
21350/2560	20M	QPSK 50RB_25	Rear side	21.15	22.00	0.10	1.216	0.371	0.451
21350/2560	20M	QPSK 50RB_25	Left side	21.15	22.00	0.08	1.216	0.212	0.258
21350/2560	20M	QPSK 50RB_25	Right side	21.15	22.00	-0.02	1.216	0.304	0.370
21350/2560	20M	QPSK 50RB_25	Top side	21.15	22.00	-0.17	1.216	0.255	0.310
21350/2560	20M	QPSK 50RB_25	Bottom side	21.15	22.00	-0.17	1.216	0.311	0.378

Note:

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

7.2.5. SAR Results [LTE Band 12]

SAR Values [LTE Band 12]									
Ch/ Freq. (MHz)	BW.	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR_{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers - Body (Test data distance 0mm)<1RB>									
23095/707.5	10M	QPSK 1RB_0	Front side	23.35	24.00	-0.01	1.161	0.411	0.477
23095/707.5	10M	QPSK 1RB_0	Rear side	23.35	24.00	-0.10	1.161	**0.489**	**0.568**
23095/707.5	10M	QPSK 1RB_0	Left side	23.35	24.00	-0.16	1.161	0.279	0.324
23095/707.5	10M	QPSK 1RB_0	Right side	23.35	24.00	0.02	1.161	0.384	0.446
23095/707.5	10M	QPSK 1RB_0	Top side	23.35	24.00	0.10	1.161	0.324	0.376
23095/707.5	10M	QPSK 1RB_0	Bottom side	23.35	24.00	-0.15	1.161	0.357	0.415
measured / reported SAR numbers - Body (Test data distance 0mm)<50%RB>									
23060/704	10M	QPSK 25RB_25	Front side	22.25	23.00	0.06	1.189	0.330	0.392
23060/704	10M	QPSK 25RB_25	Rear side	22.25	23.00	-0.18	1.189	0.392	0.466
23060/704	10M	QPSK 25RB_25	Left side	22.25	23.00	0.06	1.189	0.224	0.266
23060/704	10M	QPSK 25RB_25	Right side	22.25	23.00	-0.11	1.189	0.308	0.366
23060/704	10M	QPSK 25RB_25	Top side	22.25	23.00	-0.15	1.189	0.260	0.309
23095/707.5	10M	QPSK 25RB_25	Bottom side	22.25	23.00	-0.18	1.189	0.287	0.341

Note:

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

7.2.6. SAR Results [LTE Band 13]

SAR Values [LTE Band 13]									
Ch/ Freq. (MHz)	BW.	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR_{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers - Body (Test data distance 0mm)<1RB>									
23230/782	10M	QPSK 1RB_0	Front side	23.77	24.00	0.12	1.054	0.427	0.450
23230/782	10M	QPSK 1RB_0	Rear side	23.77	24.00	-0.08	1.054	**0.518**	**0.546**
23230/782	10M	QPSK 1RB_0	Left side	23.77	24.00	-0.08	1.054	0.195	0.206
23230/782	10M	QPSK 1RB_0	Right side	23.77	24.00	0.04	1.054	0.329	0.347
23230/782	10M	QPSK 1RB_0	Top side	23.77	24.00	-0.08	1.054	0.242	0.255
23230/782	10M	QPSK 1RB_0	Bottom side	23.77	24.00	-0.09	1.054	0.365	0.385
measured / reported SAR numbers - Body (Test data distance 0mm)<50%RB>									
23230/782	10M	QPSK 25RB_0	Front side	22.99	23.00	0.09	1.002	0.343	0.344
23230/782	10M	QPSK 25RB_0	Rear side	22.99	23.00	-0.02	1.002	0.416	0.417
23230/782	10M	QPSK 25RB_0	Left side	22.99	23.00	-0.08	1.002	0.157	0.157
23230/782	10M	QPSK 25RB_0	Right side	22.99	23.00	0.10	1.002	0.264	0.265
23230/782	10M	QPSK 25RB_0	Top side	22.99	23.00	0.15	1.002	0.194	0.194
23230/782	10M	QPSK 25RB_0	Bottom side	22.99	23.00	0.08	1.002	0.293	0.294

Note:

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

7.2.7. SAR Results [LTE Band 41]

SAR Values [LTE Band 41]									
Ch/ Freq. (MHz)	BW.	Channel Type	Test Position	Conducted Power (dBm)	Maximum Allowed Power (dBm)	Power Drift (dB)	Scaling Factor	SAR_{1-g} results(W/kg)	
								Measured	Reported
measured / reported SAR numbers - Body (Test data distance 0mm)<1RB>									
40620/2593	20M	QPSK 1RB_0	Front side	21.83	22.00	-0.18	1.040	0.412	0.428
40620/2593	20M	QPSK 1RB_0	Rear side	21.83	22.00	-0.05	1.040	**0.519**	**0.540**
40620/2593	20M	QPSK 1RB_0	Left side	21.83	22.00	0.17	1.040	0.218	0.227
40620/2593	20M	QPSK 1RB_0	Right side	21.83	22.00	-0.16	1.040	0.325	0.338
40620/2593	20M	QPSK 1RB_0	Top side	21.83	22.00	-0.07	1.040	0.205	0.213
40620/2593	20M	QPSK 1RB_0	Bottom side	21.83	22.00	-0.06	1.040	0.429	0.446
measured / reported SAR numbers - Body (Test data distance 0mm)<50%RB>									
40620/2593	20M	QPSK 50RB_25	Front side	21.07	22.00	-0.15	1.239	0.300	0.372
40620/2593	20M	QPSK 50RB_25	Rear side	21.07	22.00	0.07	1.239	0.377	0.467
40620/2593	20M	QPSK 50RB_25	Left side	21.07	22.00	0.12	1.239	0.159	0.197
40620/2593	20M	QPSK 50RB_25	Right side	21.07	22.00	-0.14	1.239	0.236	0.292
40620/2593	20M	QPSK 50RB_25	Top side	21.07	22.00	0.06	1.239	0.149	0.185
40620/2593	20M	QPSK 50RB_25	Bottom side	21.07	22.00	-0.14	1.239	0.312	0.387

Note:

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

Multiple Transmitter Evaluation

7.2.8. Simultaneous SAR SAR test evaluation

Simultaneous Transmission Possibilities

NO.	Simultaneous Tx Combination	Body
1	LTE + BT	Yes

7.2.9. Estimated SAR

When the standalone SAR test exclusion is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to determine simultaneous transmission SAR test exclusion:

• (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)/x] W/kg for test separation distances ≤ 50 mm;

Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Estimated SAR Result

Freq. Band	Frequency (GHz)	Test Position	max. power (dBm)	max. power (mw)	Test Separation (mm)	Estimated 1g SAR (W/kg)
Bluetooth	2.48	Body-worn	1	1.26	5	0.053

7.2.10. Simultaneous Transmission SAR Summation Scenario

Test position		Main Antenna SAR (W/kg)							BT Antenna SAR(W/kg)	Summed 1g SAR (W/kg)
		LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 13	LTE Band 41	Bluetooth	
Body	Front side	0.506	0.475	0.301	0.392	0.477	0.45	0.428	0.053	0.559
	Back side	0.604	0.626	0.434	0.475	0.568	0.546	0.54	0.053	0.679
	Left side	0.346	0.369	0.229	0.271	0.324	0.206	0.227	0.053	0.422
	Right side	0.491	0.458	0.315	0.39	0.446	0.347	0.338	0.053	0.544
	Top side	0.274	0.425	0.244	0.327	0.376	0.255	0.213	0.053	0.478
	Bottom side	0.435	0.497	0.389	0.398	0.415	0.385	0.446	0.053	0.55

APPENDIX A: DETAILED SYSTEM CHECK RESULTS

APPENDIX B: DETAILED TEST RESULTS

APPENDIX C: CALIBRATION CERTIFICATE

APPENDIX D: PHOTOGRAPHS

.....The End of Test Report.....