

Report No.: SEWM2301000009RG06

Rev.: 01

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FCC SAR TEST REPORT

Application No.: SEWM2301000009RG
Applicant: NCXX Inc.
Manufacturer: NCXX Inc.
Product Name: Portable 5G Modem
Model No.(EUT): UNX-05G
Trade Mark: NCXX
FCC ID: SLKUNX-05G
Standards: FCC 47CFR §2.1093
Date of Receipt: 2022-10-17
Date of Test: 2022-11-07 to 2023-01-13
Date of Issue: 2023-01-16
Test conclusion: **PASS ***

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

Authorized Signature:

Panta Sun
Panta Sun

Wireless Laboratory Manager



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
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REVISION HISTORY

Report Number	Revision	Description	Issue Date
SEWM2301000009RG06	01	Original	2023-01-16



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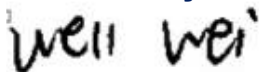
TEST SUMMARY

Frequency Band	Test position	Max Report SAR1-g (W/kg)	SAR limit (W/kg)
LTE Band 2	Body	1.12	1.60
LTE Band 4	Body	0.94	1.60
LTE Band 5	Body	0.62	1.60
LTE Band 7	Body	1.09	1.60
LTE Band 26	Body	0.62	1.60
LTE Band 41	Body	0.63	1.60
LTE Band 42	Body	0.49	1.60
FR1 N41	Body	0.79	1.60
FR1 N77	Body	0.69	1.60
FR1 N78	Body	0.79	1.60
WI-FI (2.4GHz)	Body	0.34	1.60
WI-FI (5GHz)	Body	0.57	1.60
Maximum Simultaneous Transmission SAR (W/kg)		1.59	1.60

Note:

- 1) The Simultaneous transmission SAR is the same test position of the WWAN antenna + WiFi antenna.
- 2) According to TCB workshop October, 2014 RF Exposure Procedures Update (Overlapping Bands): SAR for LTE Band5 is respectively covered by LTE Band 26 due to similar frequency range, same maximum tune up limit and same channel bandwidth.
- 3) According to the declaration letter from manufacturer, for the variant test add the FR1 n41 SAR of original report SEWM2208000155RG06 and update the power for SAR test configuration in this report.

Reviewed by



Well Wei

Prepared by



Nick Hu



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1 General Information

1.1 Details of Client

Applicant:	NCXX Inc.
Address:	5-4-30, Minami-aoyama, Minato-ku, Tokyo, Japan
Manufacturer:	NCXX Inc.
Address:	5-4-30, Minami-aoyama, Minato-ku, Tokyo, Japan

1.2 Test Location

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



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1.3 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

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

• **Innovation, Science and Economic Development Canada**

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

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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1.4 General Description of EUT

Product Name:	Portable 5G Modem		
Model No.(EUT):	UNIX-05G		
Trade Mark:	NCXX		
Product Phase:	production unit		
Device Type:	peripheral transmitter		
Exposure Category:	uncontrolled environment / general population		
IMEI:	1# 354942230001344		
	2# 354942230001161		
	3# 354942230005915		
FCC ID:	SLKUNIX-05G		
Hardware Version:	SRT851N_V1.02		
Software Version:	v0.0.29		
Antenna Type:	PIFA Antenna		
Device Operating Configurations:			
Modulation Mode:	LTE: QPSK,16QAM,64QAM,256QAM 5G NR: DFT-s-OFDM (PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM), CP-OFDM (QPSK, 16QAM, 64QAM, 256QAM) WIFI: DSSS, OFDM, OFDMA		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	LTE band 2	1850 - 1910 MHz	1930 - 1990 MHz
	LTE band 4	1710 - 1755 MHz	2110 - 2155 MHz
	LTE band 5	824 - 849 MHz	869 - 894 MHz
	LTE band 7	2500 - 2570 MHz	2620 - 2690 MHz
	LTE band 26	814 - 849 MHz	859 - 894 MHz MHz
	LTE band 41	2496 - 2690 MHz	2496 - 2690 MHz
	LTE band 42	3550 - 3600MHz	3550 - 3600MHz
	FR1 n41	2496 - 2690 MHz	2496 - 2690 MHz
	FR1 n77	3300 - 4200 MHz	3300 - 4200 MHz
	FR1 n78	3300 - 3800 MHz	3300 - 3800 MHz
	WIFI2.4GHz	2412-2462 MHz	2412-2462 MHz
	WIFI5GHz	5150-5250 MHz 5250-5350 MHz 5470-5725 MHz	5150-5250 MHz 5250-5350 MHz 5470-5725 MHz



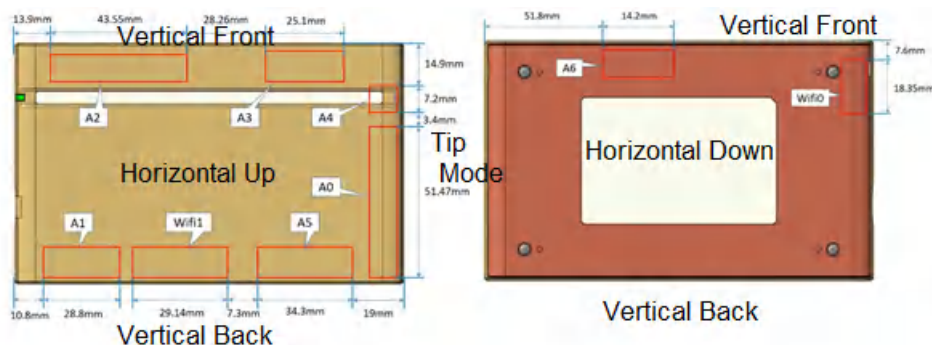
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1.4.1 DUT Antenna Locations



ANT0	ANT1	ANT2	ANT3	ANT4	ANT5	ANT6
703—960MHz 1710—2690MHz	1710—2690MHz	703—960MHz 1710—2690MHz	1710—2690MHz 3300—5000MHz	3300—5000MHz	1710—2690MHz 3300—5000MHz	3300—5000MHz
LTE B5/26TRX B2/7 TRX1	LTE B2/4/7/41 TRX0 5GNR N41 TRX0	LTE 2/4/7/41 DRX0 B5/26 DRX0 5GNR N41 DRX0	LTE 2/7/41 PRX1 B42 DRX 5GNR N77/78/79 DRX0 N41 PRX1	LTE B42 TRX0 5GNR N77/78/79 TRX0	LTE B2/7/41 DRX1 B42 DRX1 5GNR N77/78/79 DRX1 N41 DRX1	LTE B42 TX1/DRX0 5GNR N77/78/79 TX1/DRX0

Note:

1) RX Antenna does not support transmitter function.

Mode	Horizontal Up	Horizontal Down	Vertical Front	Vertical Back	Tip Mode
Main Ant	Yes	Yes	Yes	Yes	Yes
WIFI Ant	Yes	Yes	Yes	Yes	Yes

Table 1: EUT Sides for SAR Testing



1.4.2 LTE CA additional specification

The device supports downlink and intra-band contiguous uplink LTE Carrier Aggregation (CA). When carrier aggregation applies, implementation and measurement details for the following are necessary.

- Intra-band carrier aggregation requirements for uplink.
- Intra-band and inter-band carrier aggregation requirements for downlink.

The possible downlink and uplink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The conducted power measurement results of downlink and uplink LTE CA are provided in Section 7 of this report per 3GPP TS 36.521-1 V14.4.0. The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

SAR test procedure for intra-band contiguous UL LTE CA is as below:

1) Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05

- UL PCC configuration is determined by the required test channel
- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.

2) SAR for UL CA is required in each exposure condition and frequency band combination

3) For this device, as the maximum output for Intra-band uplink LTE CA is $\leq$ standalone LTE mode (without CA),

- PCC is configured according to the highest standalone SAR configuration tested.
- SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC

4) When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based)

5) UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.

Intra-band contiguous CA operating bands:

E-UTRA CA Band	E-UTRA Band	Uplink (UL) operating band		Downlink (DL) operating band			Duplex Mode	
		BS receive / UE transmit		BS transmit / UE receive				
		$F_{UL\ low} - F_{UL\ high}$		$F_{DL\ low} - F_{DL\ high}$				
CA 5B	5	824 MHz	–	849 MHz	869 MHz	–	894 MHz	FDD
CA 7C	7	2500 MHz	–	2570 MHz	2620 MHz	–	2690 MHz	FDD
CA 41C	41	2496 MHz	–	2690 MHz	2496 MHz	–	2690 MHz	TDD
CA 42C	42	3550 MHz	–	3600 MHz	3550 MHz	–	3600 MHz	TDD



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DL CA operating bands:

2CC Downlink Carrier Aggregation	3CC Downlink Carrier Aggregation	4CC Downlink Carrier Aggregation	5CC Downlink Carrier Aggregation
CA_7A-26A	CA_2A-4A-5A	CA_41A-41A-41C	CA_41A-42C-42C
CA_41A-41A	CA_2A-2A-7A	CA_41A-41D	CA_41C-41D
CA_41A-42A	CA_2A-4A-4A	CA_41A-42A-42C	CA_41C-42A-42C
CA_41C	CA_2A-5A-7A	CA_41C-41C	
CA_42C	CA_2A-4A-7A	CA_41C-42C	
CA_4A-4A	CA_2A-5B	CA_41E	
CA_4A-5A	CA_26A-41C	CA_42C-42C	
CA_4A-7A	CA_2A-7A-7A	CA_4A-4A-5B	
CA_5A-41A	CA_2A-7C	CA_2A-5A-7C	
CA_5A-5A	CA_2C-5A	CA_2A-2A-4A-4A	
CA_5A-7A	CA_2A-2A-5A	CA_2A-2A-4A-5A	
CA_5B	CA_2A-2A-4A	CA_2A-2A-5B	
CA_7A-7A	CA_41A-41A-41A	CA_2A-4A-7A-7A	
CA_7B	CA_41A-41C	CA_2A-4A-7C	
CA_7C	CA_41A-42C	CA_2A-4A-4A-5A	
CA_2A-26A	CA_41C-42A	CA_2A-4A-5B	
CA_26A-41A	CA_41D		
CA_2A-2A	CA_42A-42C		
CA_2A-4A	CA_4A-4A-5A		
CA_2A-5A	CA_4A-4A-7A		
CA_2A-7A	CA_4A-5B		
CA_2C	CA_4A-7A-7A		
	CA_4A-7C		
	CA_5A-7A-7A		
	CA_5A-7C		
	CA_7A-7A-26A		
	CA_2A-7A-26A		



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1.4.3 Power reduction specification

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

- 1) The proximity sensor is used to indicate when the device is held close to a user's body exposure condition. It utilizes the proximity sensor to reduce the output power in specific wireless and operating modes of main antenna to ensure SAR compliance (Refer to section 5.4 for detailed proximity Sensor information and validation data per KDB 616217).

The detailed power reduction information can be referred to provided in Section 7 of this report.



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1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE Std C95.1 – 1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 248227 D01 v02r02	802.11 Wi-Fi SAR
KDB 941225 D01 v03r01	3G SAR Procedures
KDB 941225 D05 v02r05	SAR for LTE Devices
KDB 447498 D01 v06	General RF Exposure Guidance
KDB 447498 D03 v01	Supplement C Cross-Reference
KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
KDB 865664 D02 v01r02	RF Exposure Reporting



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1.6 RF exposure limits

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

Notes:

* 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.)



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2 Laboratory Environment

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

Table 2: The Ambient Conditions



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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

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

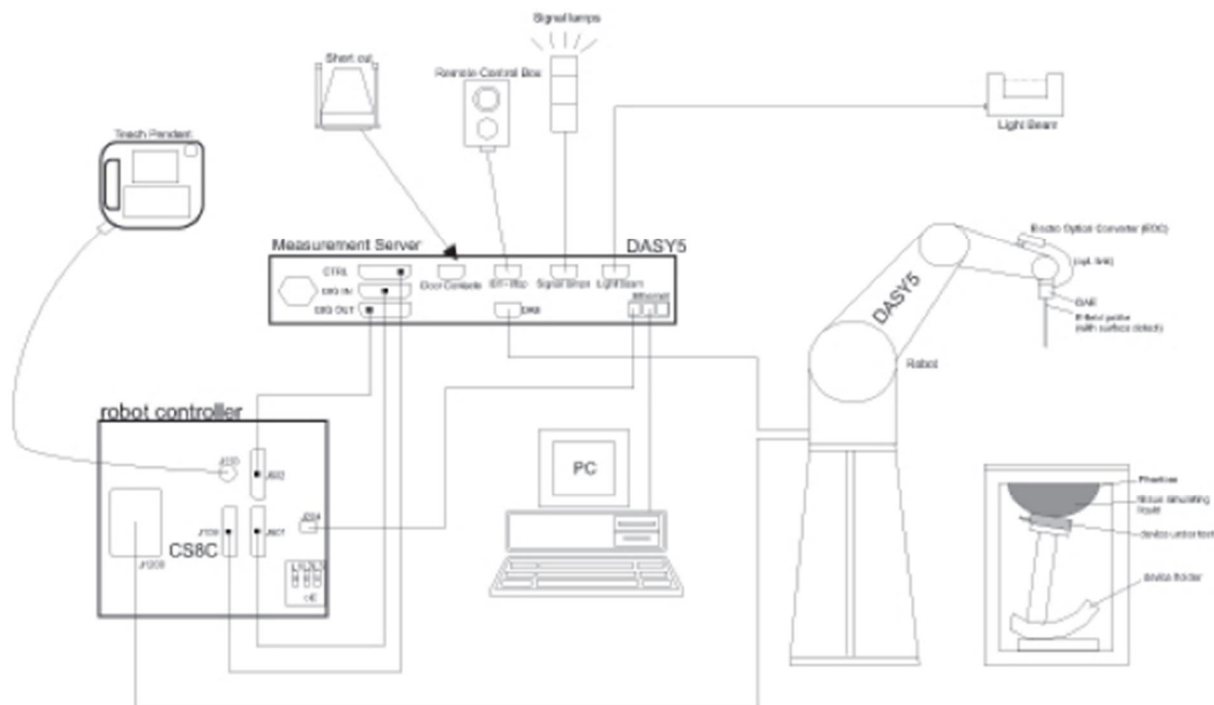
The DASY5 system for performing compliance tests consists of the following items:

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

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

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

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



F-1. SAR Measurement System Configuration



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

3.2 Isotropic E-field Probe EX3DV4

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



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3.3 Data Acquisition Electronics (DAE)

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



3.4 SAM Twin Phantom

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



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

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

3.5 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 $\epsilon=3$ and loss tangent $\delta=0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

3.6 Measurement procedure

3.6.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

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



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		$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		$5 \pm 1 \text{ mm}$	$\frac{1}{4} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$		$\leq 2 \text{ GHz: } \leq 15 \text{ mm}$ $2 - 3 \text{ GHz: } \leq 12 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 12 \text{ mm}$ $4 - 6 \text{ GHz: } \leq 10 \text{ mm}$
		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 $\leq$ 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: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$		$\leq 2 \text{ GHz: } \leq 8 \text{ mm}$ $2 - 3 \text{ GHz: } \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz: } \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		$\leq 5 \text{ mm}$
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$
Minimum zoom scan volume	x, y, z	$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz: } \geq 28 \text{ mm}$ $4 - 5 \text{ GHz: } \geq 25 \text{ mm}$ $5 - 6 \text{ GHz: } \geq 22 \text{ mm}$

Step 4: Power reference measurement (drift)

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



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3.6.2 Data Storage

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

3.6.3 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:

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

With V_i = compensated signal of channel i ($i = x, y, z$)
 U_i = input signal of channel i ($i = x, y, z$)
 cf = crest factor of exciting field (DASY parameter)
 dcp_i = diode compression point (DASY parameter)

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

E-field probes:

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



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H-field probes:

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

With V_i = 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

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

f = carrier frequency [GHz]

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

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

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

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

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

$$SAR = (E_{tot}^2 \cdot \sigma) / (\epsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

E_{tot} = 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.

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

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

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

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



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is 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 ($\sim 10\%$ from the 1-g SAR limit).
 - 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4.2 SAR measurement uncertainty

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



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5 Description of Test Position

5.1 Body Exposure Condition

5.1.1 The Body Test Position

The device is an Portable 5G Modem, it has a special connector general Type-C USB type. So according to the manufacturer, the declared 10mm distance is used to perform SAR testing with (A) Horizontal-Up, (B) Horizontal-down, (C) Vertical-Front, (D) Vertical-Back and tip

The detailed information can refer to Appendix D: Photographs setup photo



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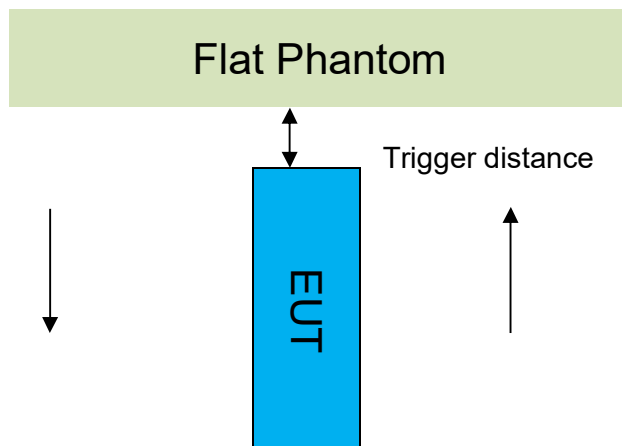
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5.2 Proximity Sensor Triggering Test

Proximity sensor triggering distances:

The Proximity sensor triggering was applied to WWAN antenna. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.



Proximity Sensor Triggering Distance(mm)				
Ant	Ant0	Ant1	Ant4	Ant6
Band	LTE B5/26/2/7	LTE B2/4/7/41/NR 41	LTE B42/NR 77/78	LTE B42/NR 77/78
Position	Horizontal-Up-26mm Horizontal-Down-15mm Vertical Front-24mm Vertical Back-24mm Tip Mode-24mm	Horizontal-Up-26mm Horizontal-Down-15mm Vertical Front-24mm Vertical Back-24mm Tip Mode-24mm	Horizontal-Up-26mm Horizontal-Down-15mm Vertical Front-24mm Vertical Back-24mm Tip Mode-24mm	Horizontal-Up-26mm Horizontal-Down-15mm Vertical Front-24mm Vertical Back-24mm Tip Mode-24mm

Note:

SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.



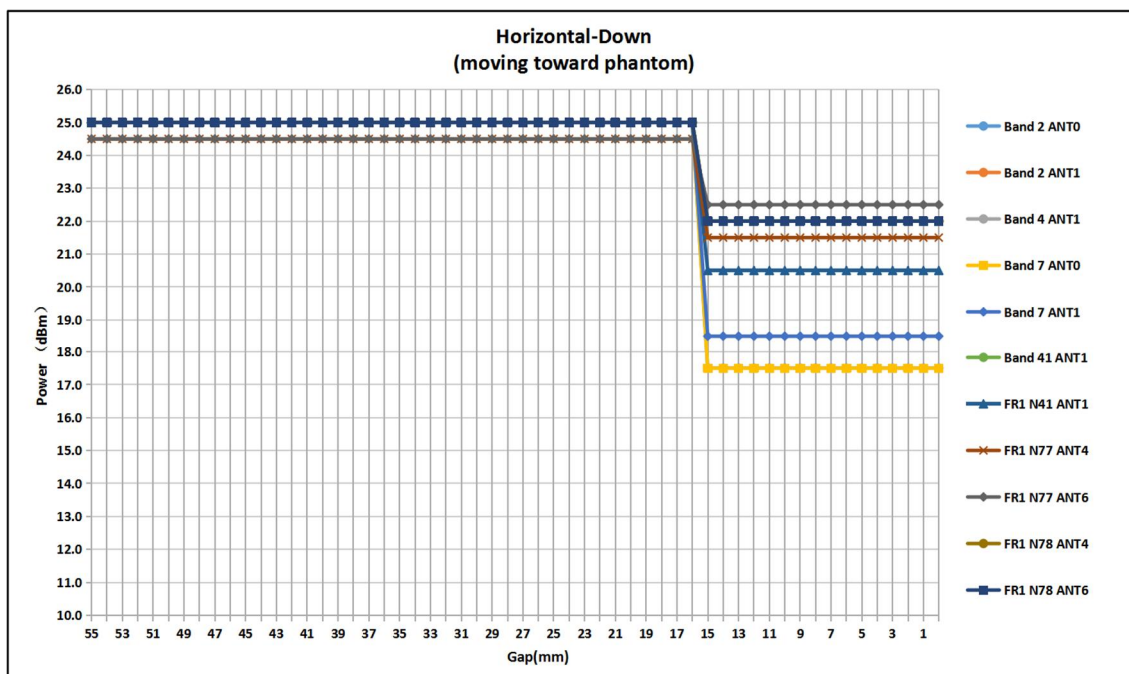
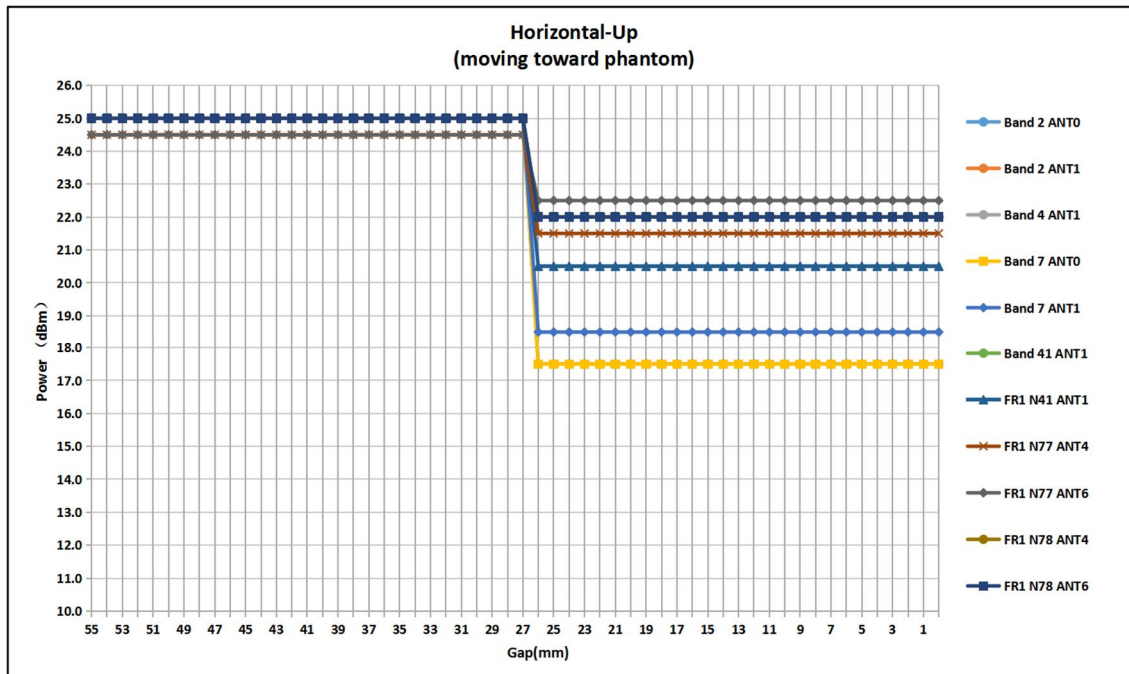
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● DUT SA Moving Toward(Trigger)the Phantom



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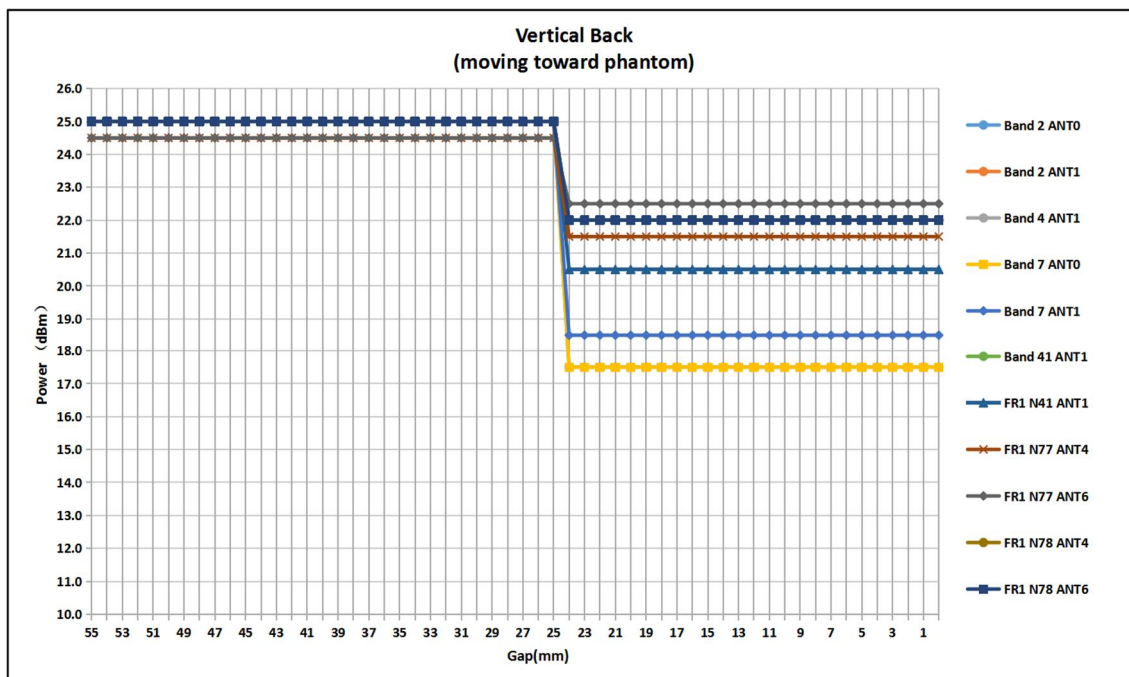
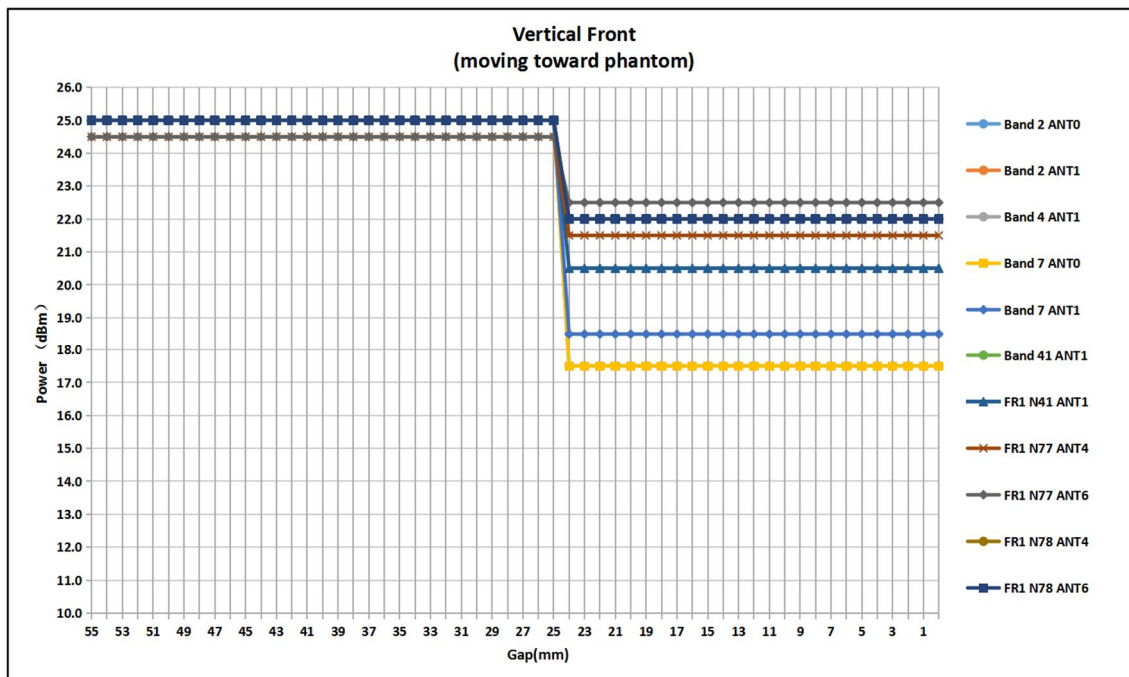
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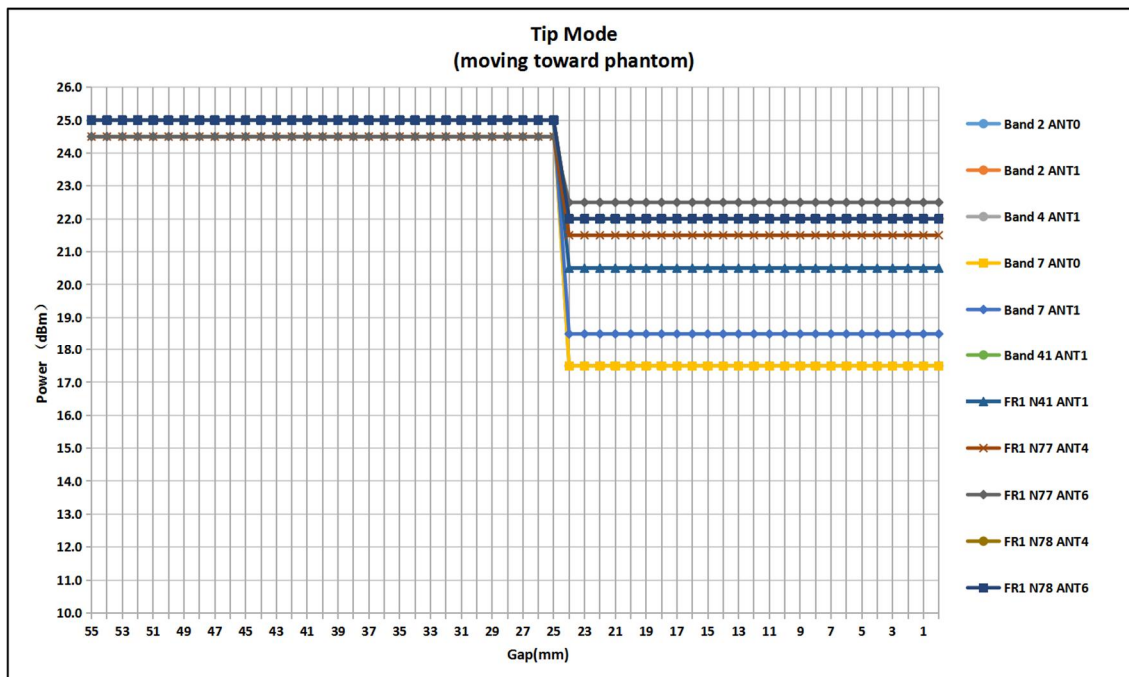
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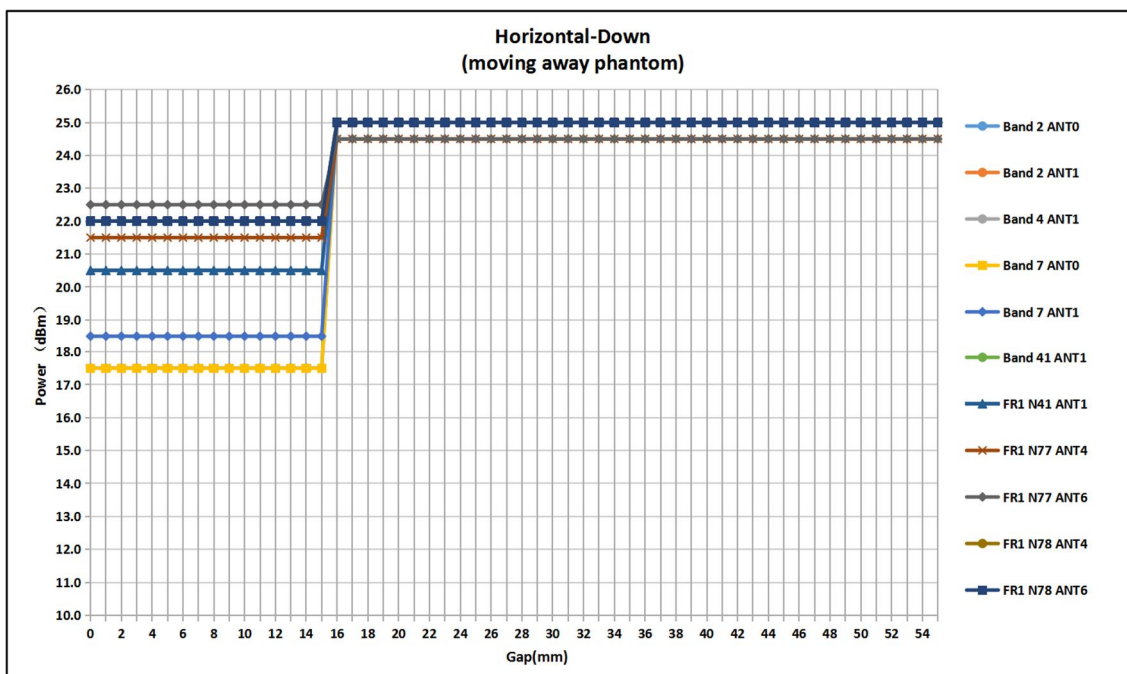
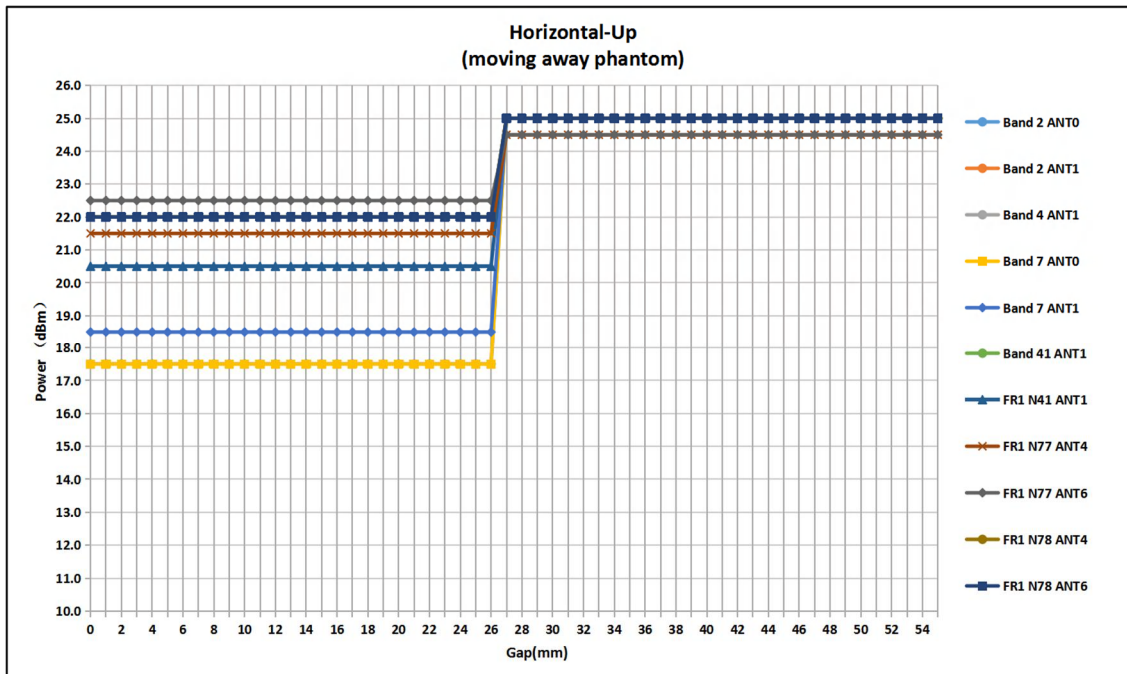
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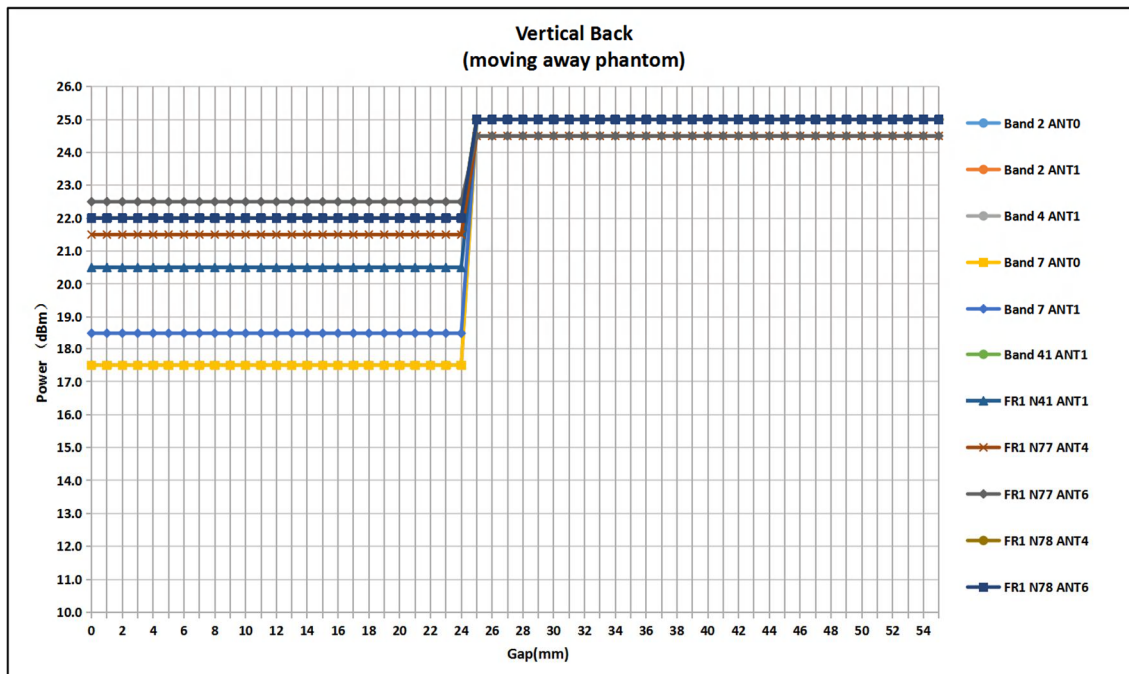
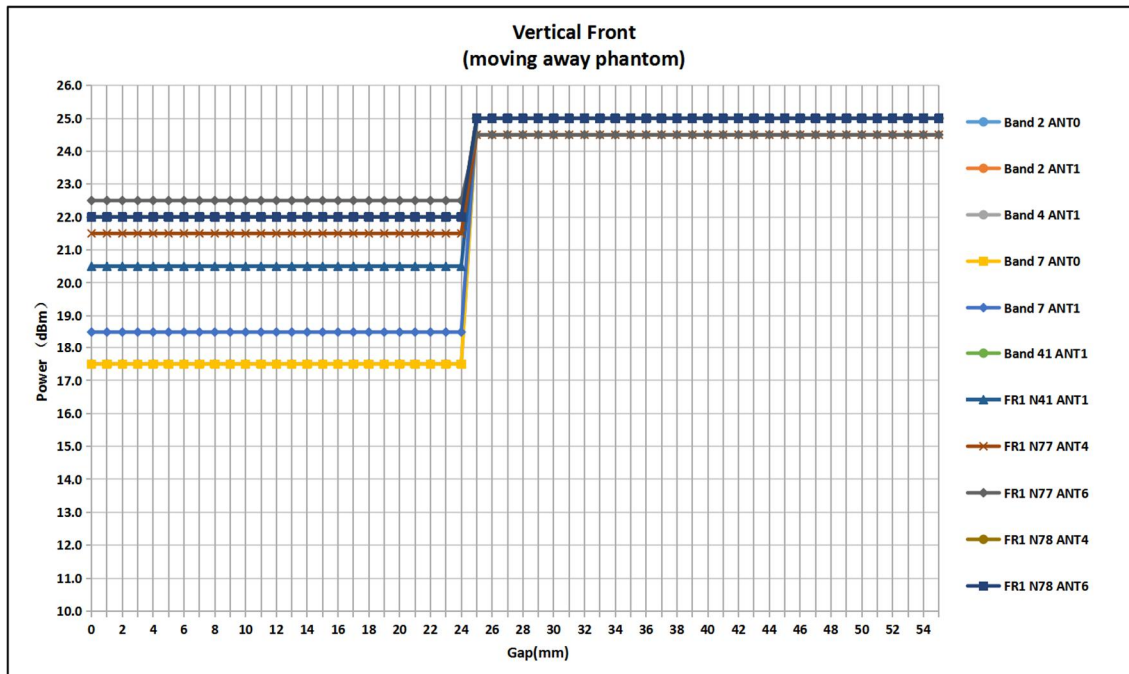


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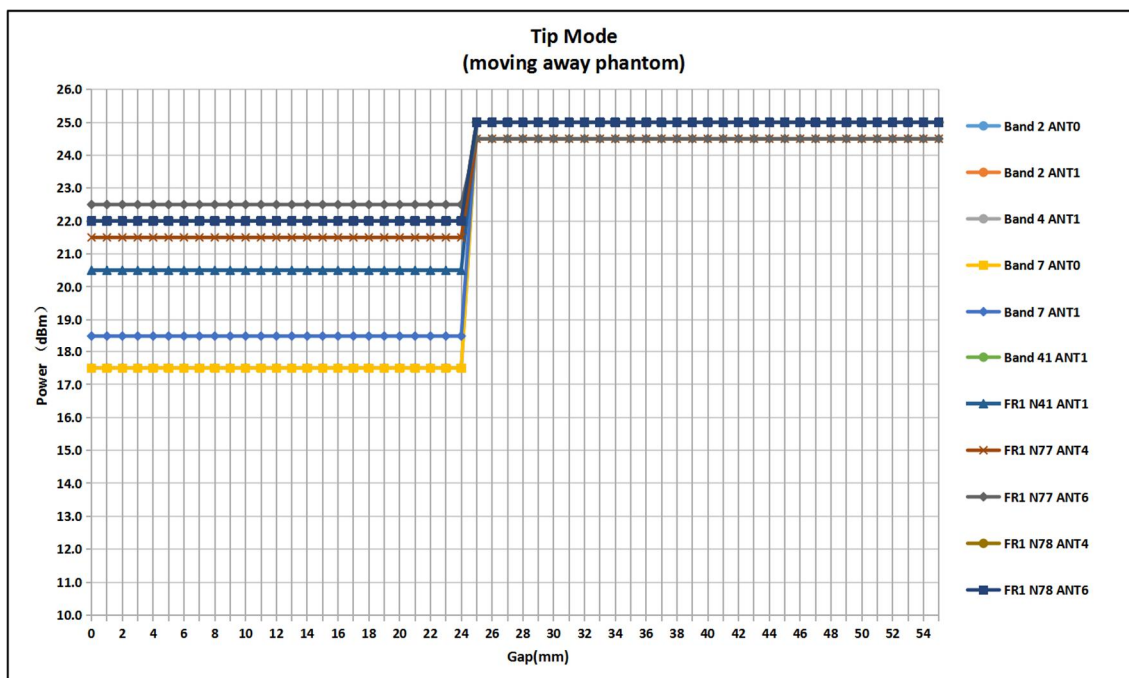
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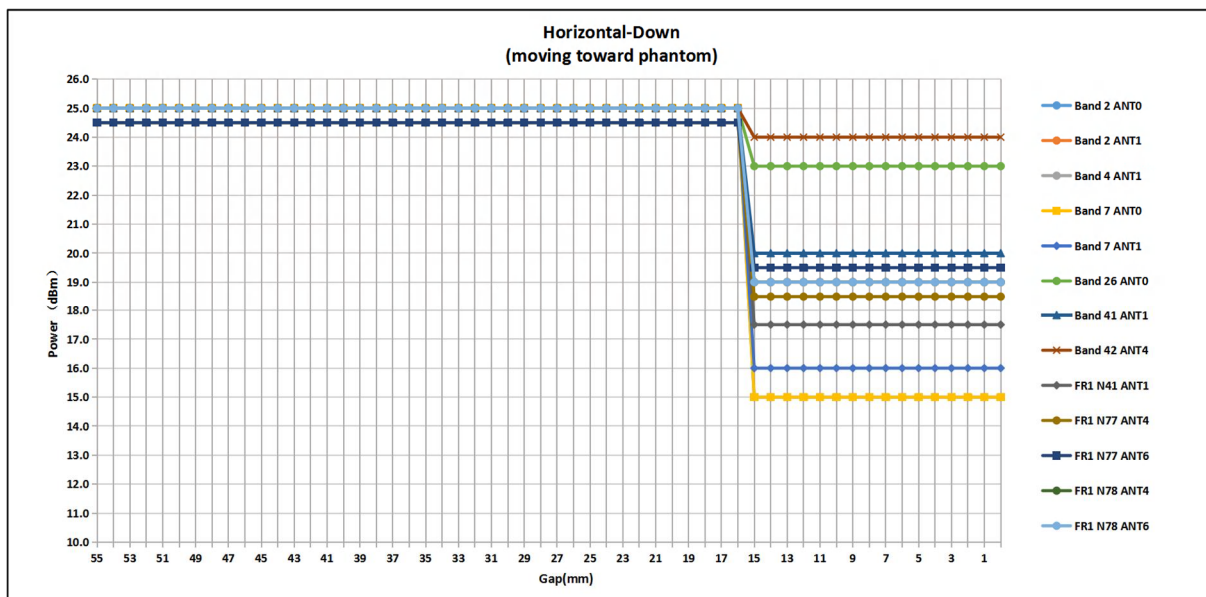
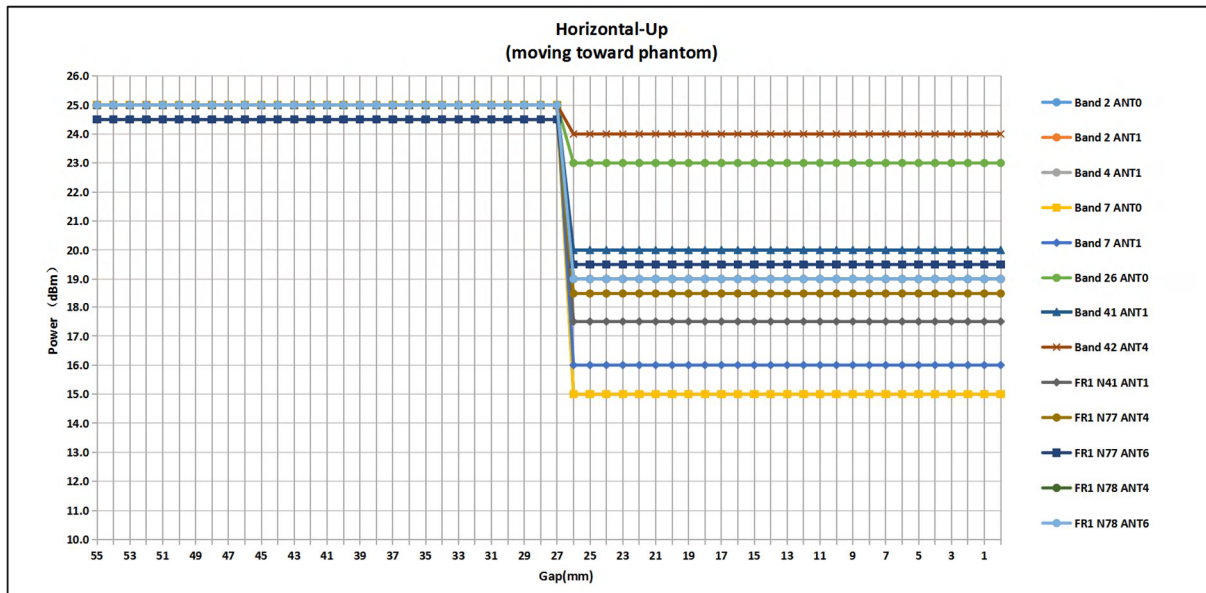
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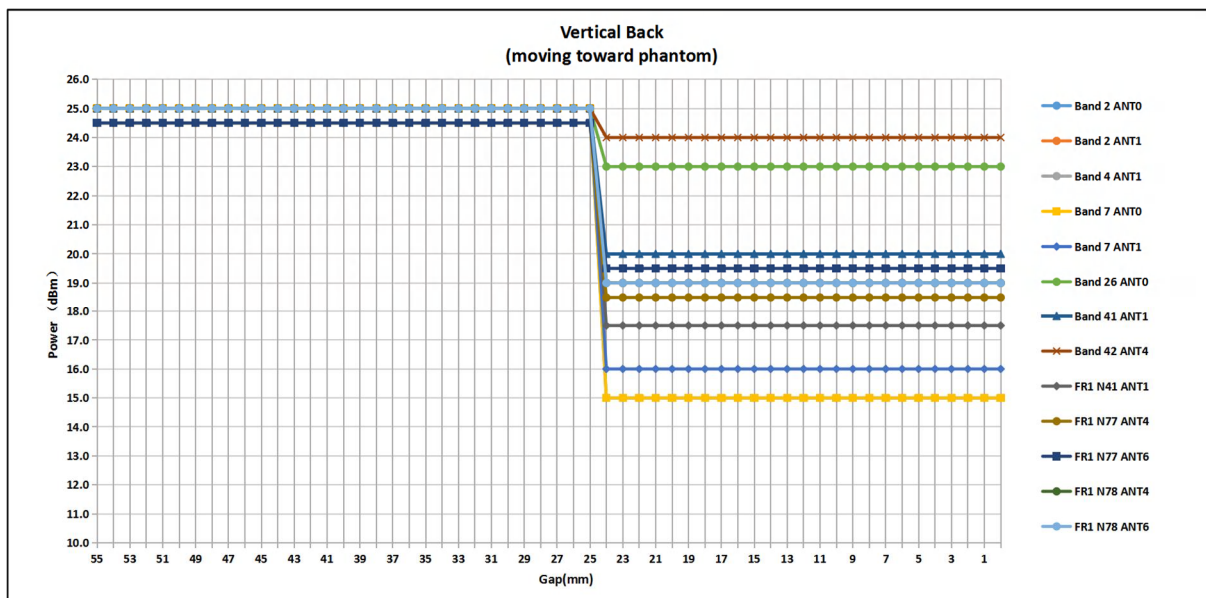
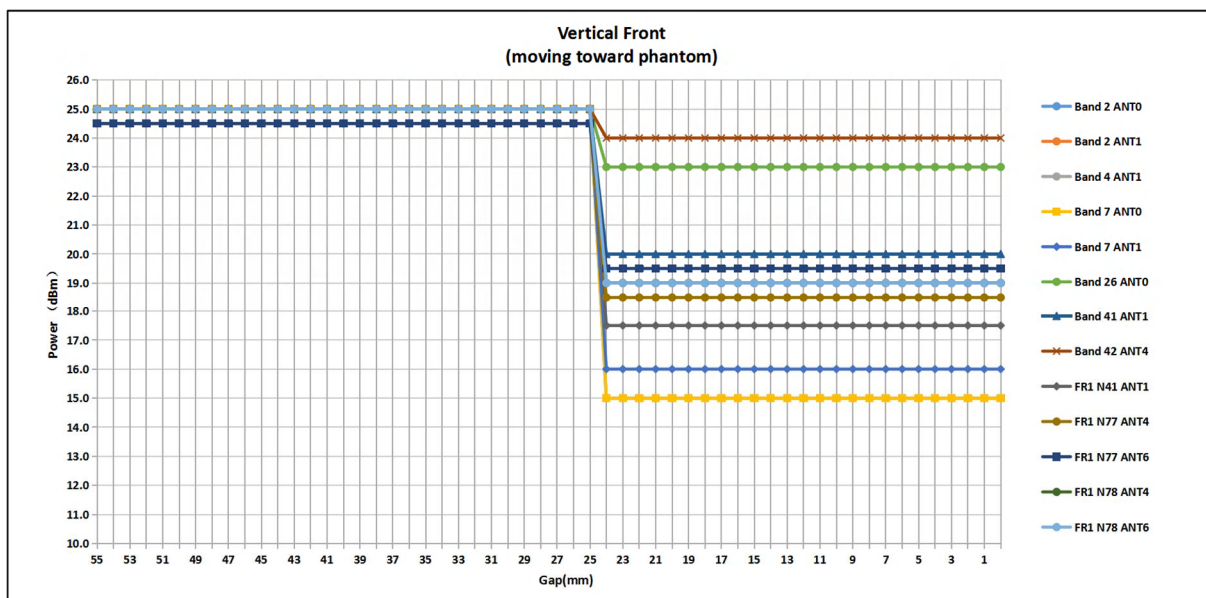


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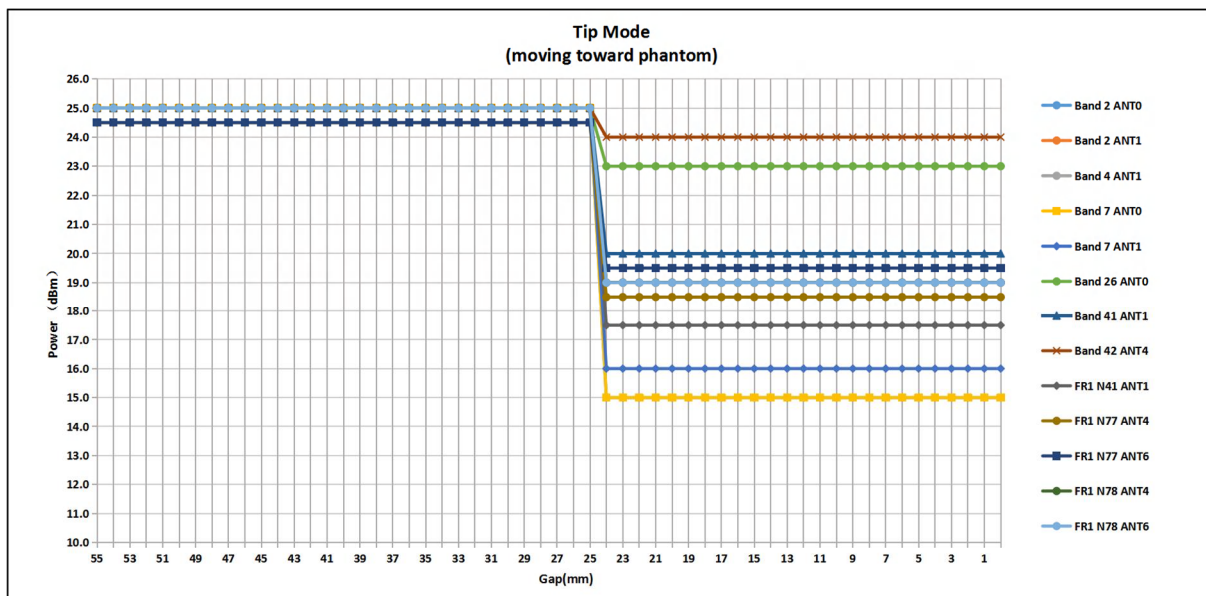
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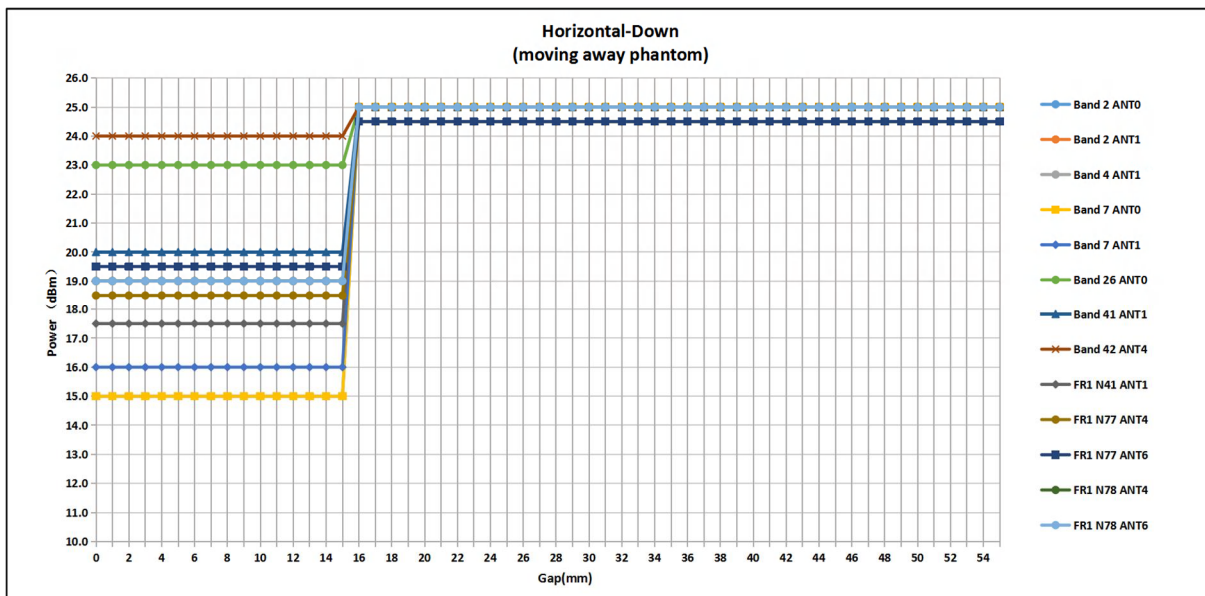
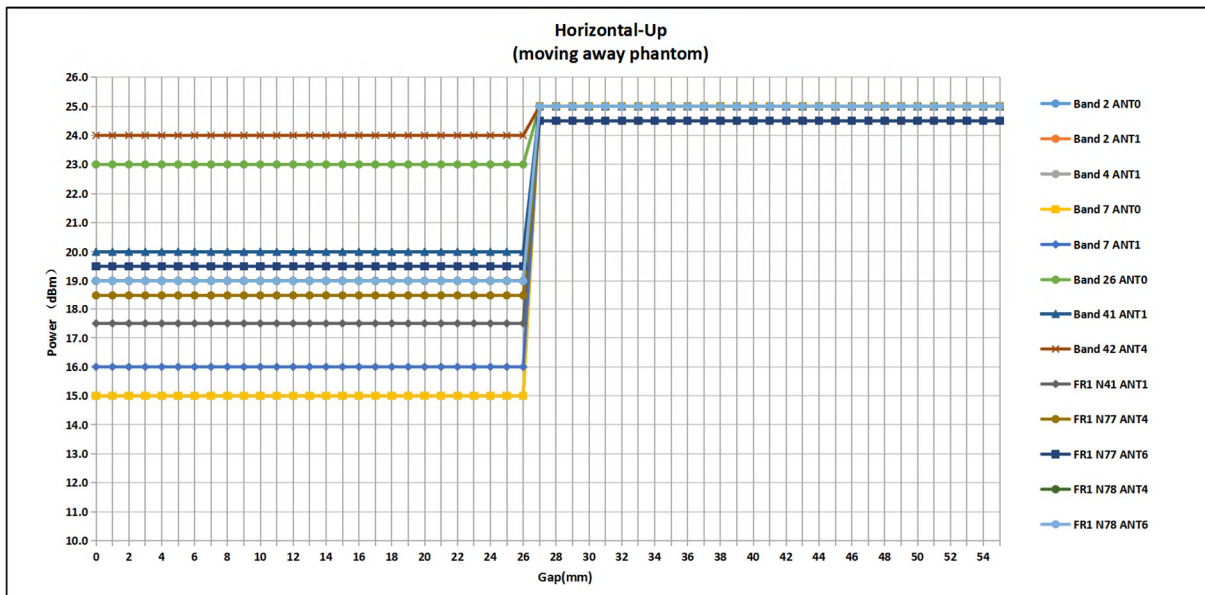
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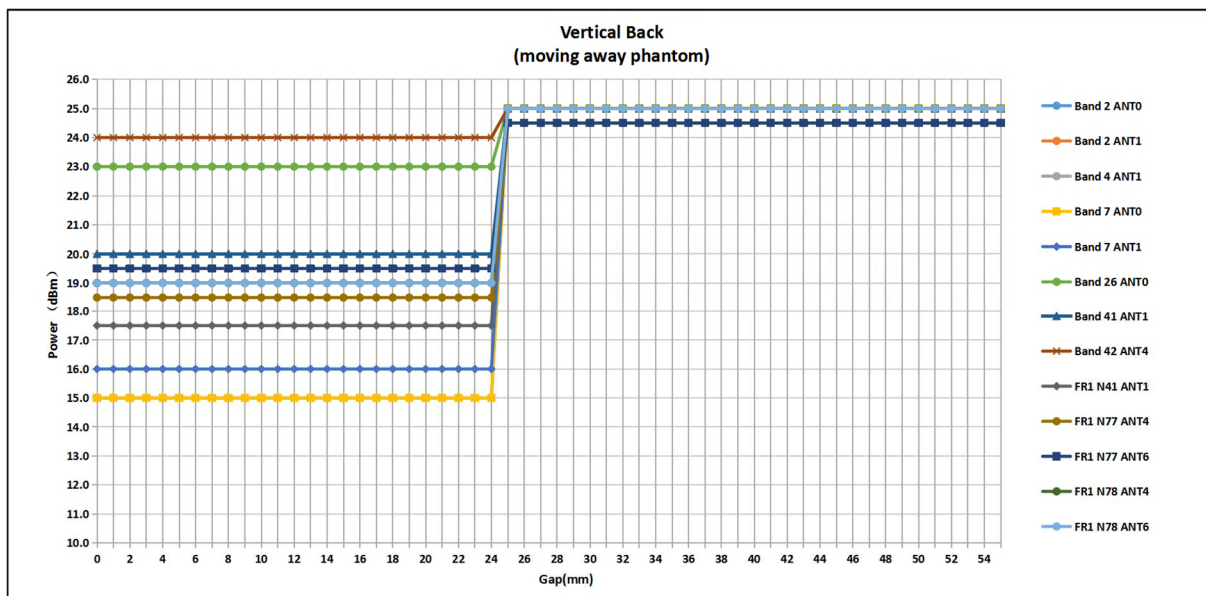
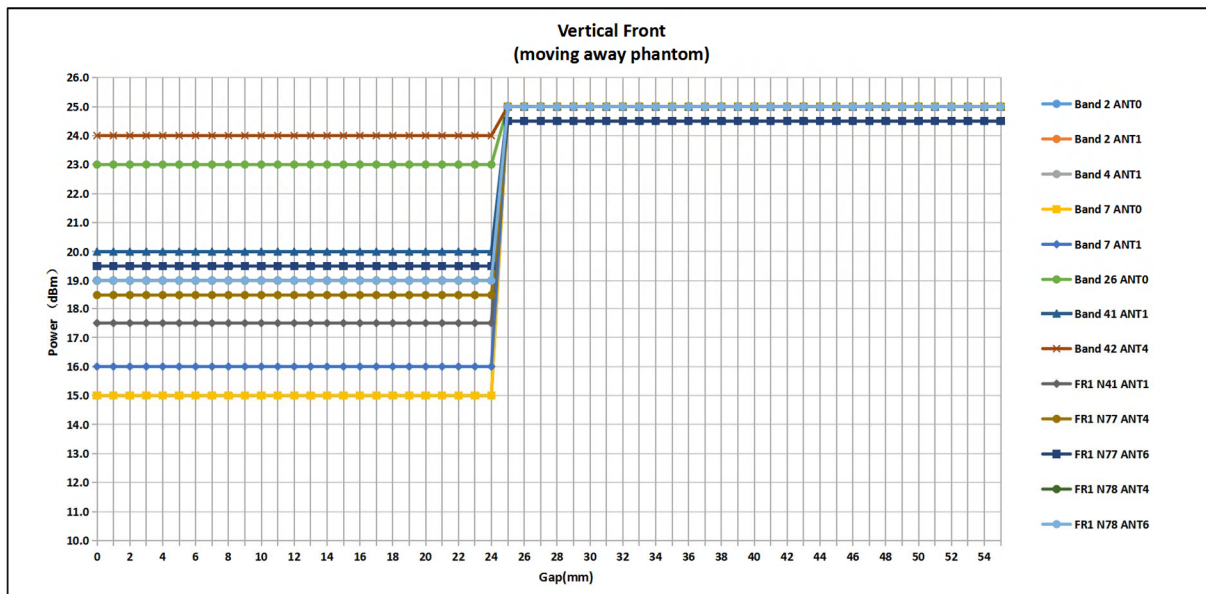
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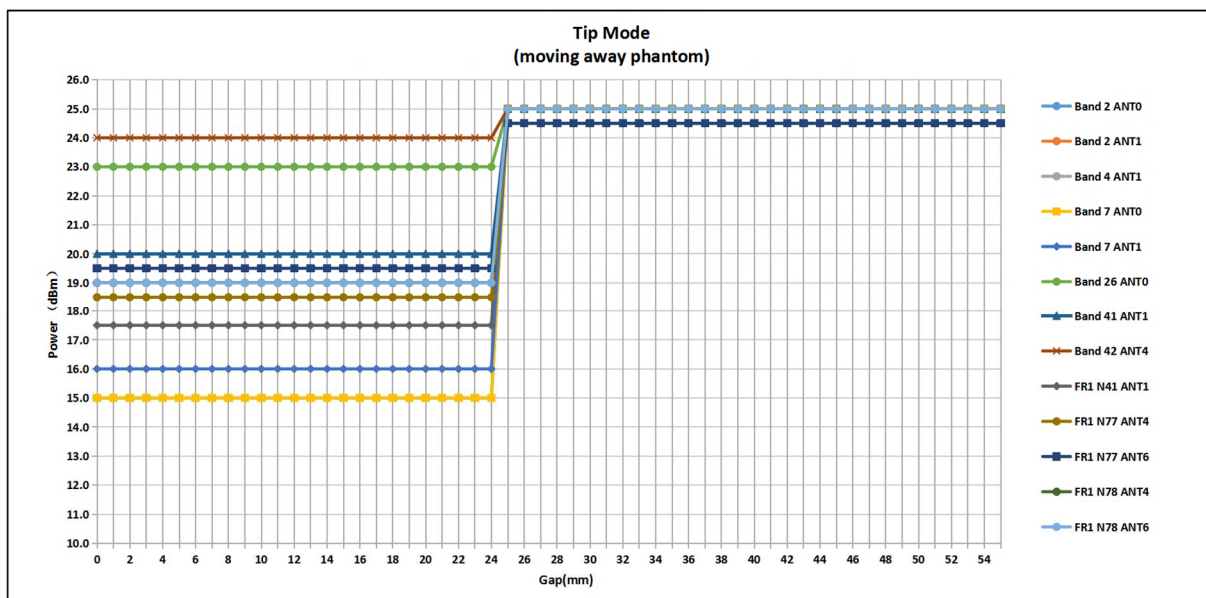
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Proximity sensor coverage

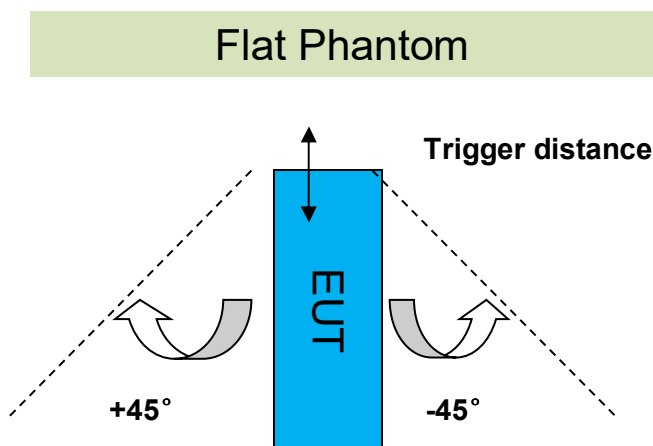
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and “along the direction of maximum antenna and sensor offset”.

The proximity sensor and main antenna use same metallic electrode, so there is no spatial offset.

Device tilt angle influences to proximity sensor triggering

The influence of device tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom.

Rotating the tablet around the edge next to the phantom in $\leq 10^\circ$ increments until the tablet is $\pm 45^\circ$ from the vertical position at 0° , and the maximum output power remains in the reduced mode.



Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering for Top Side												
Ant	Minimum trigger distance Per KDB616217§6.2	Power Reduction Status										
		-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
Ant0	Vertical Front-24mm Vertical Back-24mm Tip Mode-24mm	on	on	on	on	on	on	on	on	on	on	on
Ant1		on	on	on	on	on	on	on	on	on	on	on
Ant4		on	on	on	on	on	on	on	on	on	on	on
Ant6		on	on	on	on	on	on	on	on	on	on	on

6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The following 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 3: Recipe of Tissue Simulate Liquid



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6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22\pm 2^{\circ}\text{C}$.

Tissue Type	Measured Frequency (MHz)	Target Tissue ($\pm 5\%$)		Measured Tissue		Deviation (Within $\pm 5\%$)		Liquid Temp. ($^{\circ}\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
835 Head	835	41.50	0.90	42.278	0.901	1.87%	0.11%	22.3	2022/11/7
1750 Head	1750	40.10	1.37	39.266	1.381	-2.08%	0.80%	22.1	2022/11/8
1900 Head	1900	40.00	1.40	38.745	1.409	-3.14%	0.64%	21.9	2022/11/9
2450 Head	2450	39.20	1.80	38.445	1.789	-1.93%	-0.61%	22.1	2022/11/19
2600 Head	2600	39.00	1.96	38.102	1.959	-2.30%	-0.05%	22.0	2022/11/11
2600 Head	2600	39.0	1.96	38.442	1.997	-1.43%	1.89%	22.1	2023/1/13
3500 Head	3500	37.90	2.91	38.305	3.020	1.07%	3.78%	22.1	2022/11/13
3700 Head	3700	37.70	3.12	37.982	2.992	0.75%	-4.10%	22.3	2022/11/16
3900 Head	3900	37.50	3.32	37.371	3.206	-0.34%	-3.43%	22.0	2022/11/17
5250 Head	5250	35.90	4.66	35.548	4.747	-0.98%	1.87%	22.2	2022/11/20
5600 Head	5600	35.50	5.07	34.596	5.135	-2.55%	1.28%	22.1	2022/11/21

Table 4: Measurement result of Tissue electric parameters



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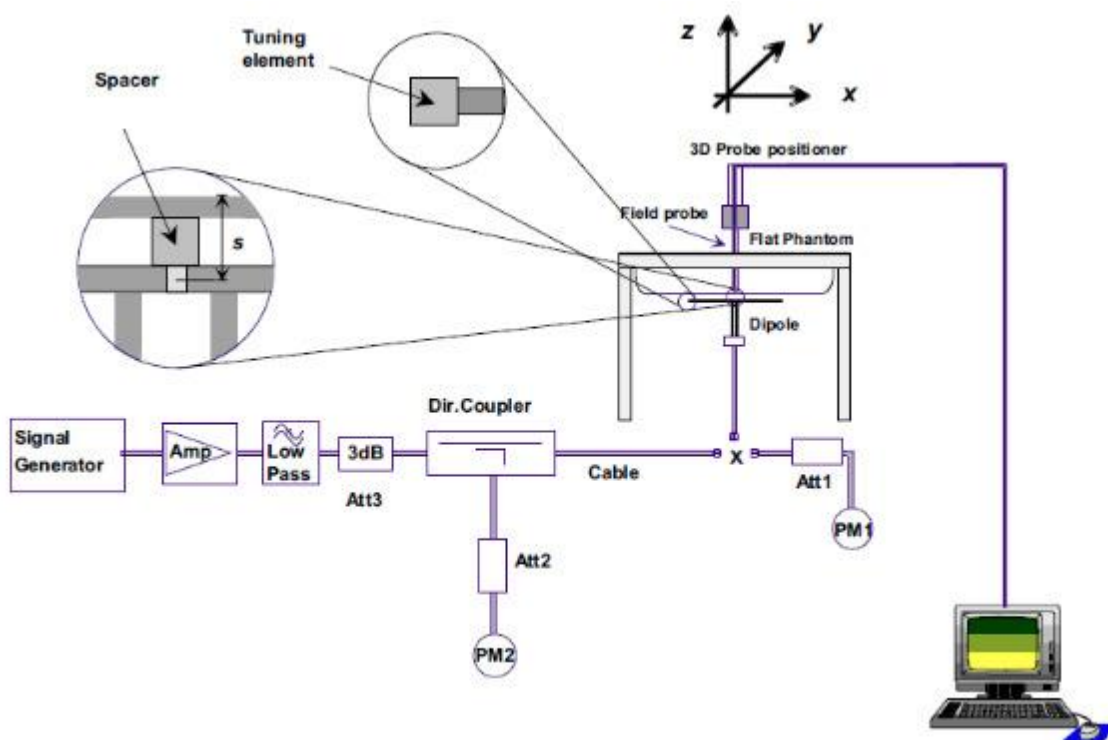
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6.2 SAR System Check

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



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6.2.1 Justification for Extended SAR Dipole Calibrations

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

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

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



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6.2.2 Summary System Check Result(s)

SAR System Validation Result(s)											
Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
D835V2	Head	2.61	1.64	10.44	6.56	9.52	6.17	9.66%	6.32%	22.3	2022/11/7
D1750V2	Head	9.14	4.84	36.56	19.36	35.30	18.70	3.57%	3.53%	22.1	2022/11/8
D1900V2	Head	10.5	5.17	42.00	20.68	39.70	20.30	5.79%	1.87%	21.9	2022/11/9
D2450V2	Head	12.90	6.17	51.60	24.68	52.20	24.50	-1.15%	0.73%	22.1	2022/11/19
D2600V2	Head	13.30	6.17	53.20	24.68	57.10	25.40	-6.83%	-2.83%	22.0	2022/11/11
D2600V2	Head	14.2	6.25	56.80	25.00	57.10	25.40	-0.53%	-1.57%	22.1	2023/1/13
Validation Kit		Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
D3500V2	Head(3.5GHz)	6.63	2.50	66.30	25.00	66.60	24.90	-0.45%	0.40%	22.1	2022/11/13
D3700V2	Head(3.7GHz)	6.28	2.35	62.80	23.50	67.80	24.70	-7.37%	-4.86%	22.3	2022/11/16
D3900V2	Head(3.9GHz)	6.85	2.46	68.50	24.60	68.00	24.50	0.74%	0.41%	22.0	2022/11/17
D5GHzV2	Head(5.25GHz)	8.01	2.31	80.10	23.10	78.00	21.80	2.69%	5.96%	22.2	2022/11/20
	Head(5.6GHz)	8.53	2.43	85.30	24.30	79.90	22.50	6.76%	8.00%	22.1	2022/11/21

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7. Test Configuration

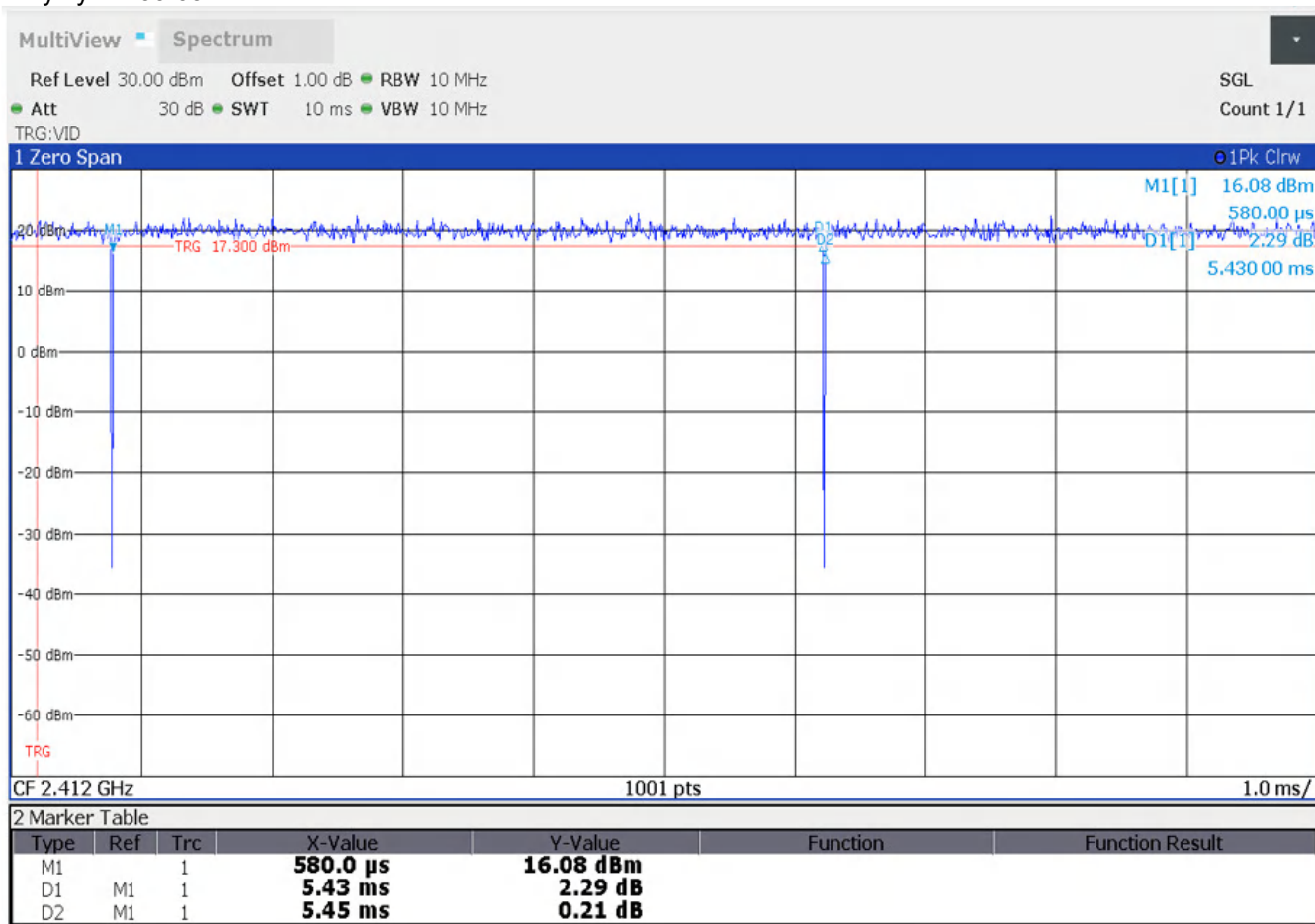
6.2.4 WiFi Test Configuration

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

6.2.4.1 Duty cycle

Wi-Fi 2.4GHz 11N20MIMO Ant 1

Duty cycle=99.63%



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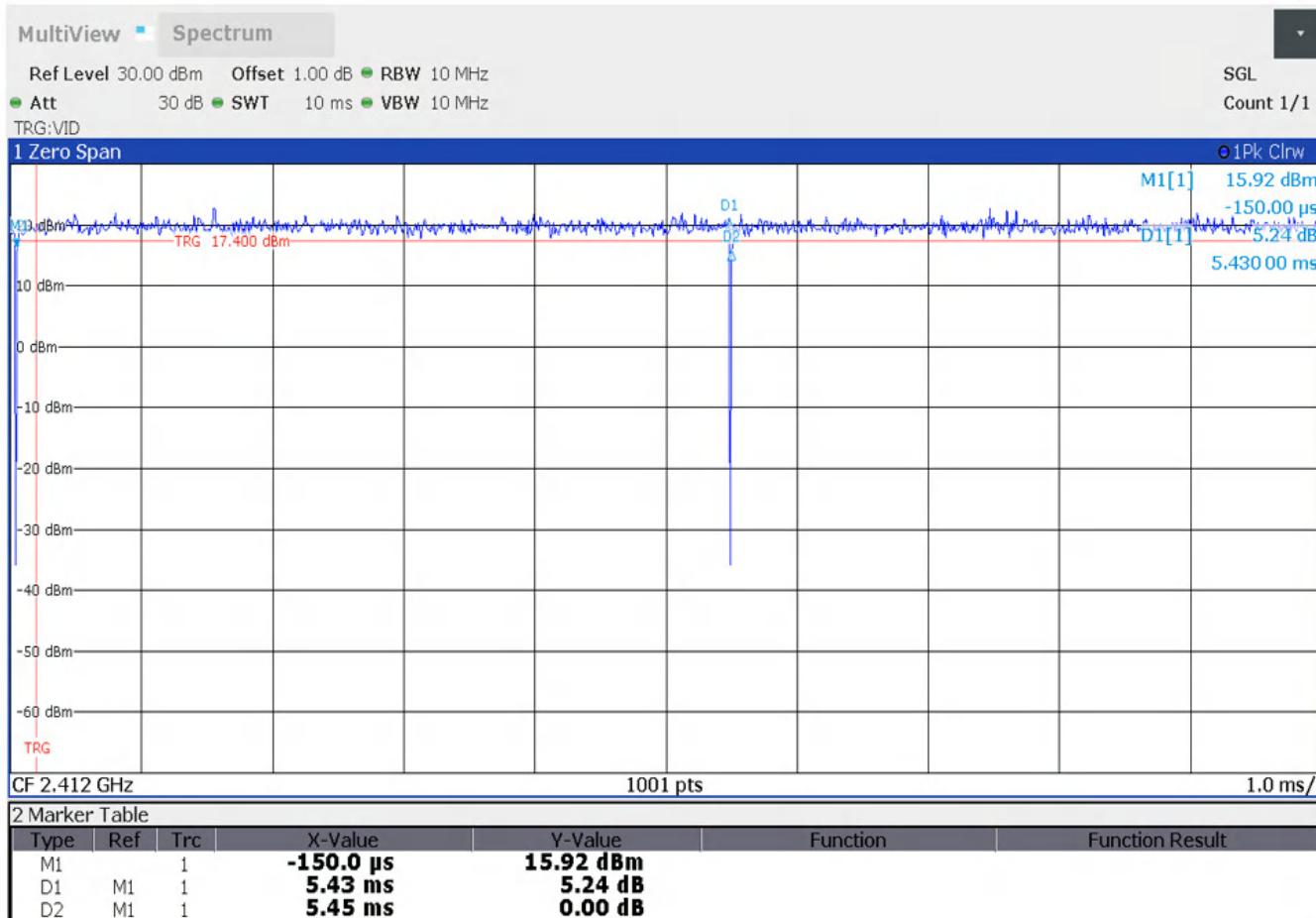
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Wi-Fi 2.4GHz 11N20MIMO Ant 2
Duty cycle=99.63%



Wi-Fi 5GHz 802.11ac VHT80 MIMO_Ant 1
Duty cycle=97.78%



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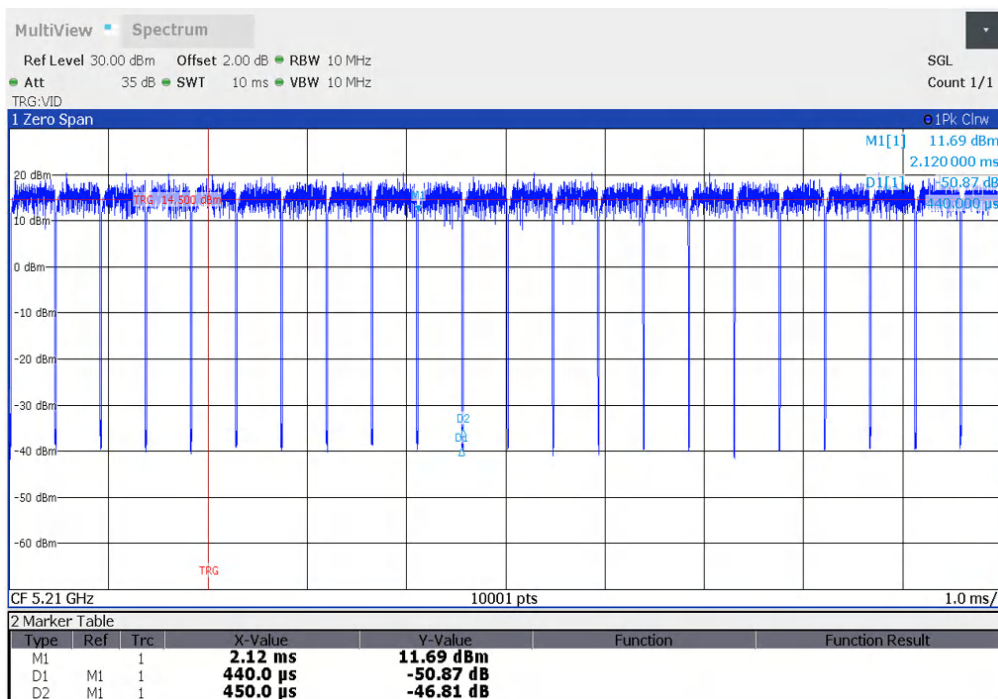
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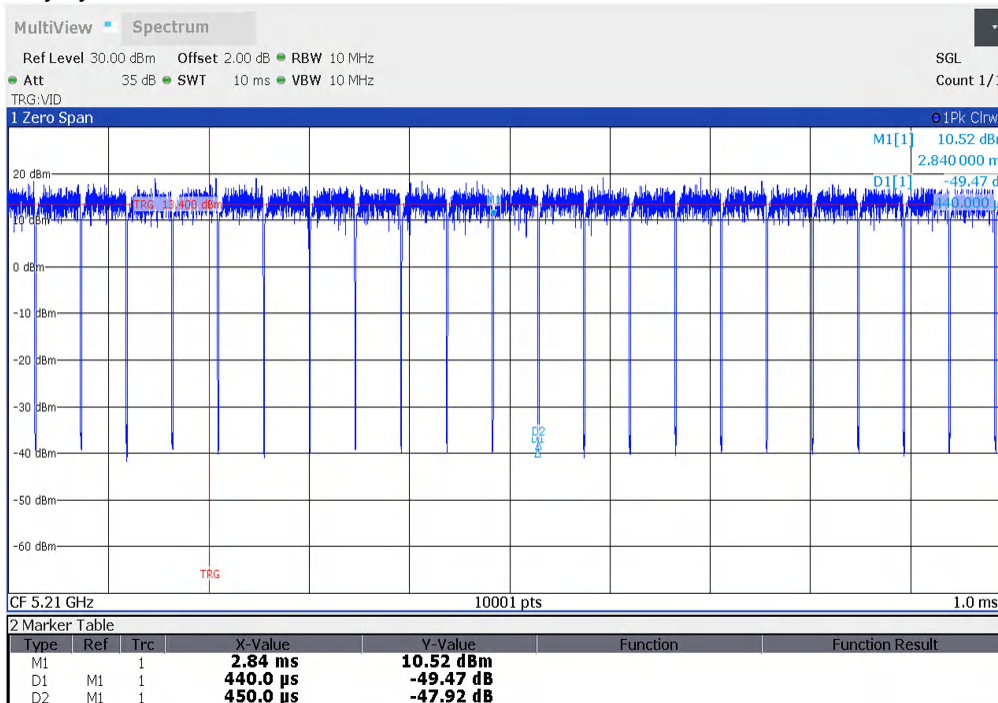
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Wi-Fi 5GHz 802.11ac VHT80 MIMO_Ant 2
Duty cycle=97.78%



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6.2.4.2 Initial Test Position SAR Test Reduction Procedure

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

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

6.2.4.3 Initial Test Configuration Procedures

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

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

6.2.4.4 Subsequent Test Configuration Procedures

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

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



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band and exposure configuration.

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



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6.2.4.5 2.4 GHz WiFi SAR Procedures

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

- **802.11b DSSS SAR Test Requirements**

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

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

- **2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements**

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

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

- **SAR Test Requirements for OFDM configurations**

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



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6.2.5 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Anritsu MT8820C was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

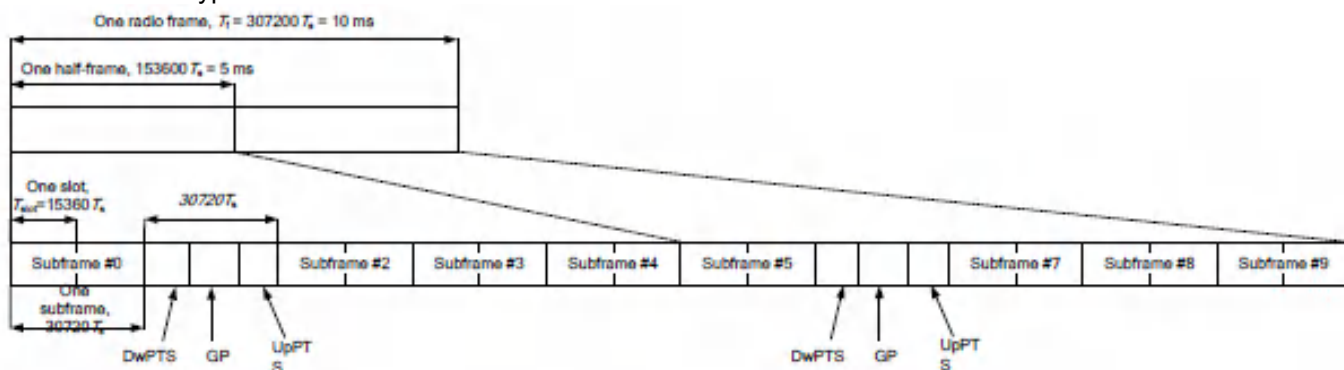
TDD LTE test consideration

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

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

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

Frame structure type 2:



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Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	6592.Ts	2192.Ts	2560.Ts	7680.Ts	2192.Ts	2560.Ts
1	19760.Ts			20480.Ts		
2	21952.Ts			23040.Ts		
3	24144.Ts			25600.Ts		
4	26336.Ts			7680.Ts		
5	6592.Ts	4384.Ts	5120.Ts	20480.Ts	4384.Ts	5120.Ts
6	19760.Ts			23040.Ts		
7	21952.Ts			25600.Ts		
8	24144.Ts			-		
9	13168.Ts			-		

Uplink-downlink configurations.

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

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

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



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A) Spectrum Plots for RB Configurations

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

B) MPR

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

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3

Modulation	Channel bandwidth / Transmission bandwidth (N_{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
256 QAM	≥ 1						≤ 5

C) A-MPR

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

D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.



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6.2.6 NR Band Test Configuration

1. NR Band n77/n78 support SA mode and support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

ENDC Combo	band	ANT Number
B2+N78	B2	ANT1
	N78	ANT4
B2+N41	B2	ANT0
	N41	ANT1
B4+N78	B4	ANT1
	N78	ANT4
B5+N77	B5	ANT0
	N77	ANT6
B5+N78	B5	ANT0
	N78	ANT6
B7+N77	B7	ANT1
	N77	ANT4
B7+N78	B7	ANT1
	N78	ANT4
B26+N78	B26	ANT0
	N78	ANT6
B26+N41	B26	ANT0
	N41	ANT1
B41+N77	B41	ANT1
	N77	ANT4
B41+N78	B41	ANT1
	N78	ANT4

2. The general information supported by the NR band is as following table:

Band		N41	n77	n78
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes
		QPSK	Yes	Yes
		16QAM	Yes	Yes
		64QAM	Yes	Yes
		256QAM	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes
		16QAM	Yes	Yes
		64QAM	Yes	Yes
		256QAM	Yes	Yes
	Duty Cycle		100%	100%



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Band	SCS	Bandwidth											
		10Mhz	15Mhz	20Mhz	25Mhz	30Mhz	40Mhz	50Mhz	60Mhz	70Mhz	80Mhz	90Mhz	100Mhz
N41	30KHZ	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n77	30KHZ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n78	30KHZ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:

- For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
- For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
- SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
- 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 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.
- PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
- Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device



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4. MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS 38.101-1 Section 6.2.2 under Table 6.2.2 -1.

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	0^2
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

5. For FDD NR Band operation does not have the fixed UL/DL frame structure, but during the transmitting/ receiving it can be operated in the slot structure of 100% UL duty cycle, we are proposing the conservative way to evaluate SAR at 100% duty cycle. For the purpose of test NR Band standalone SAR, and also test SAR level at 100% TX duty cycle.

6. For 5G NR Sub6GHz SISO Mode, SAR Test plan as below:

- 1) For 5G NR NSA mode with the same UL EN_DC combination but different DL EN_DC combinations, eg: EN-DC configuration: UL DC_7A_n5 (UL two bands) with DL DC_7C_n5 (DL two bands)

a) The UL EN-DC configuration, including the Tx antenna configuration, RF path, the channel bandwidth and other operating parameters are the same.

b) The maximum output power, including tolerance, for the UL EN-DC configuration with DL two or more bands must be $\leq$ the same UL EN-DC configuration with DL two bands only to qualify for the SAR test exclusion.

7. For EN-DC SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative “max + max” multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink EN-DC SAR from standalone SAR test results of each LTE and NR EN-DC component band and the conservative “max + max” multi-Tx method to combine the scaled SAR value from each EN-DC component band as the inter-band Uplink EN-DC SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report.

8. When the reported SAR for and EN DC configuration is greater than 1.2 W/kg, EN DC SAR is also required for other NR based test channels.

9. EN DC SAR is also required for standalone NR configurations greater than 1.2 W/kg when scaled to the EN DC power level.



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7 Test Result

7.1 Measurement of RF conducted Power

7.1.1 Conducted Power

Note:

- 1) . According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 2) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 3) . Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.
- 4) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than 1/4 dB higher than the maximum output power measured when downlink carrier aggregation is inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.
The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.
The conducted power measurement results of downlink LTE CA Conducted Power are as Appendix E conducted RF output power, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing
- 5) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.



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7.1.1 Conducted Power of LTE

LTE Band 5 Ant 0				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20407	20525	20643	
1.4MHz	QPSK	1	0	23.18	23.31	23.25	25.00
		1	2	23.06	23.04	23.32	25.00
		1	5	23.01	23.06	23.16	25.00
		3	0	23.09	23.17	23.19	25.00
		3	2	23.07	23.01	23.23	25.00
		3	3	23.09	23.04	23.18	25.00
	16QAM	6	0	22.14	22.07	22.13	24.00
		1	0	22.10	22.21	22.51	24.00
		1	2	22.61	22.30	22.24	24.00
		1	5	22.17	22.41	22.19	24.00
		3	0	22.02	22.24	22.39	24.00
		3	2	22.59	22.26	22.22	24.00
	64QAM	3	3	22.19	22.37	22.17	24.00
		6	0	21.24	21.06	21.28	23.00
		1	0	21.10	21.40	21.70	23.00
		1	2	21.72	21.29	21.29	23.00
		1	5	21.11	21.57	21.32	23.00
		3	0	20.90	21.26	21.60	23.00
	256QAM	3	2	21.72	21.28	21.26	23.00
		3	3	21.12	21.63	21.36	23.00
		6	0	20.21	20.14	20.42	22.00
		1	0	19.08	19.45	19.62	21.00
		1	2	19.70	19.36	19.39	21.00
		1	5	19.18	19.67	19.38	21.00
3MHz	QPSK	3	0	18.98	19.42	19.67	21.00
		3	2	19.74	19.34	19.43	21.00
		3	3	19.14	19.72	19.25	21.00
		6	0	18.27	18.18	18.49	20.00
	16QAM	1	0	23.16	23.28	23.29	25.00
		1	7	23.14	23.11	23.26	25.00
		1	14	23.04	23.10	23.20	25.00
		8	0	22.11	22.15	22.09	24.00
		8	4	22.12	22.13	22.24	24.00
		8	7	22.17	22.16	22.27	24.00
	64QAM	15	0	22.15	22.04	22.12	24.00
		1	0	22.07	22.25	22.49	24.00
		1	7	22.64	22.34	22.34	24.00
		1	14	22.16	22.46	22.27	24.00
		8	0	21.07	21.25	21.15	23.00
		8	4	21.08	21.23	21.05	23.00
	256QAM	8	7	21.10	21.18	21.23	23.00
		15	0	21.16	21.15	21.13	23.00
		1	0	21.08	21.47	21.65	23.00
		1	7	21.77	21.33	21.28	23.00
		1	14	21.25	21.54	21.34	23.00



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		8	0	20.10	20.21	20.22	22.00
		8	4	20.25	20.15	20.12	22.00
		8	7	20.26	20.26	20.37	22.00
		15	0	20.18	20.14	20.36	22.00
	256QAM	1	0	18.99	19.46	19.67	21.00
		1	7	19.71	19.32	19.36	21.00
		1	14	19.12	19.65	19.36	21.00
		8	0	18.19	18.24	18.28	20.00
		8	4	18.33	18.17	18.25	20.00
		8	7	18.26	18.40	18.32	20.00
		15	0	18.18	18.13	18.40	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20425	20525	20625	
5MHz	QPSK	1	0	23.10	23.19	23.03	25.00
		1	13	23.16	23.07	23.16	25.00
		1	24	23.01	23.08	23.19	25.00
		12	0	22.07	22.08	22.07	24.00
		12	6	22.04	22.12	22.21	24.00
		12	13	22.10	22.07	22.25	24.00
		25	0	22.09	22.05	22.10	24.00
	16QAM	1	0	22.28	22.35	22.50	24.00
		1	13	22.56	22.30	22.27	24.00
		1	24	22.13	22.39	22.19	24.00
		12	0	21.03	21.32	21.09	23.00
		12	6	21.11	21.10	21.07	23.00
		12	13	21.05	21.23	21.44	23.00
		25	0	21.25	21.05	21.22	23.00
	64QAM	1	0	21.04	21.39	21.62	23.00
		1	13	21.59	21.28	21.29	23.00
		1	24	21.30	21.63	21.37	23.00
		12	0	20.19	20.27	20.26	22.00
		12	6	20.17	20.24	20.06	22.00
		12	13	20.13	20.28	20.45	22.00
		25	0	20.09	20.11	20.20	22.00
	256QAM	1	0	19.14	19.40	19.75	21.00
		1	13	19.71	19.38	19.35	21.00
		1	24	19.45	19.66	19.50	21.00
		12	0	18.28	18.28	18.32	20.00
		12	6	18.19	18.26	18.15	20.00
		12	13	18.33	18.35	18.53	20.00
		25	0	18.18	18.20	18.31	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20450	20525	20600	
10MHz	QPSK	1	0	23.18	23.33	23.16	25.00
		1	25	23.18	23.02	23.16	25.00
		1	49	23.07	23.06	23.17	25.00
		25	0	22.16	22.17	22.25	24.00
		25	13	22.12	22.28	22.17	24.00
		25	25	22.26	22.18	22.30	24.00
		50	0	22.27	22.08	22.27	24.00
	16QAM	1	0	22.03	22.38	22.58	24.00
		1	25	22.68	22.38	22.36	24.00
		1	49	22.24	22.56	22.22	24.00
		25	0	21.14	21.15	21.16	23.00



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		25	13	21.13	21.07	21.05	23.00
		25	25	21.03	21.17	21.39	23.00
		50	0	21.17	21.16	21.20	23.00
	64QAM	1	0	21.13	21.42	21.72	23.00
		1	25	21.72	21.36	21.41	23.00
		1	49	21.23	21.58	21.35	23.00
		25	0	20.27	20.23	20.20	22.00
		25	13	20.31	20.26	20.22	22.00
		25	25	20.31	20.33	20.41	22.00
		50	0	20.20	20.11	20.32	22.00
	256QAM	1	0	19.11	19.49	19.82	21.00
		1	25	19.76	19.47	19.49	21.00
		1	49	19.27	19.55	19.43	21.00
		25	0	18.25	18.29	18.25	20.00
		25	13	18.35	18.29	18.18	20.00
		25	25	18.31	18.43	18.51	20.00
		50	0	18.27	18.15	18.43	20.00

LTE Band 26 Ant 0				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26697	26865	27033	
1.4MHz	QPSK	1	0	23.25	23.37	23.26	25.00
		1	2	23.13	23.12	23.33	25.00
		1	5	23.05	23.06	23.25	25.00
		3	0	23.14	23.23	23.28	25.00
		3	2	23.14	23.06	23.25	25.00
		3	3	23.12	23.11	23.23	25.00
		6	0	22.20	22.07	22.21	24.00
	16QAM	1	0	22.00	22.31	22.52	24.00
		1	2	22.65	22.33	22.28	24.00
		1	5	22.19	22.51	22.29	24.00
		3	0	22.04	22.28	22.41	24.00
		3	2	22.59	22.29	22.29	24.00
		3	3	22.23	22.42	22.22	24.00
		6	0	21.24	21.15	21.29	23.00
	64QAM	1	0	21.13	21.50	21.75	23.00
		1	2	21.78	21.38	21.35	23.00
		1	5	21.19	21.63	21.42	23.00
		3	0	21.00	21.36	21.70	23.00
		3	2	21.75	21.37	21.26	23.00
		3	3	21.17	21.68	21.37	23.00
		6	0	20.28	20.19	20.43	22.00
	256QAM	1	0	19.12	19.53	19.72	21.00
		1	2	19.78	19.44	19.48	21.00
		1	5	19.20	19.74	19.45	21.00
		3	0	19.05	19.47	19.71	21.00
		3	2	19.77	19.37	19.46	21.00
		3	3	19.16	19.72	19.34	21.00
		6	0	18.30	18.18	18.49	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26705	26865	27025	



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3MHz	QPSK	1	0	23.25	23.38	23.34	25.00
		1	7	23.18	23.11	23.31	25.00
		1	14	23.12	23.12	23.26	25.00
		8	0	22.16	22.16	22.19	24.00
		8	4	22.01	22.23	22.29	24.00
		8	7	22.25	22.22	22.35	24.00
		15	0	22.17	22.10	22.22	24.00
	16QAM	1	0	22.12	22.32	22.56	24.00
		1	7	22.67	22.35	22.34	24.00
		1	14	22.20	22.54	22.29	24.00
		8	0	21.07	21.26	21.19	23.00
		8	4	21.16	21.25	21.13	23.00
		8	7	21.04	21.24	21.32	23.00
		15	0	21.26	21.19	21.20	23.00
	64QAM	1	0	21.13	21.49	21.69	23.00
		1	7	21.79	21.42	21.35	23.00
		1	14	21.25	21.63	21.43	23.00
		8	0	20.20	20.26	20.22	22.00
		8	4	20.28	20.24	20.22	22.00
		8	7	20.27	20.36	20.44	22.00
		15	0	20.20	20.14	20.44	22.00
	256QAM	1	0	19.09	19.56	19.69	21.00
		1	7	19.77	19.42	19.46	21.00
		1	14	19.18	19.71	19.45	21.00
		8	0	18.21	18.32	18.29	20.00
		8	4	18.35	18.24	18.32	20.00
		8	7	18.28	18.47	18.41	20.00
		15	0	18.21	18.16	18.48	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26715	26865	27015	
5MHz	QPSK	1	0	23.16	23.20	23.06	25.00
		1	13	23.23	23.15	23.23	25.00
		1	24	23.00	23.14	23.27	25.00
		12	0	22.10	22.18	22.13	24.00
		12	6	22.10	22.17	22.21	24.00
		12	13	22.19	22.13	22.25	24.00
		25	0	22.16	22.13	22.19	24.00
	16QAM	1	0	22.30	22.36	22.51	24.00
		1	13	22.65	22.36	22.32	24.00
		1	24	22.23	22.49	22.26	24.00
		12	0	21.08	21.32	21.14	23.00
		12	6	21.18	21.02	21.09	23.00
		12	13	21.04	21.23	21.44	23.00
		25	0	21.26	21.11	21.27	23.00
	64QAM	1	0	21.13	21.49	21.72	23.00
		1	13	21.68	21.36	21.33	23.00
		1	24	21.37	21.65	21.42	23.00
		12	0	20.24	20.31	20.31	22.00
		12	6	20.20	20.25	20.16	22.00
		12	13	20.19	20.29	20.50	22.00
		25	0	20.17	20.21	20.29	22.00
	256QAM	1	0	19.24	19.48	19.78	21.00
		1	13	19.75	19.38	19.36	21.00
		1	24	19.46	19.73	19.50	21.00



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		12	0	18.30	18.37	18.35	20.00
		12	6	18.26	18.29	18.21	20.00
		12	13	18.34	18.45	18.53	20.00
		25	0	18.20	18.20	18.31	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26750	26865	26990	
10MHz	QPSK	1	0	23.25	23.26	23.25	25.00
		1	25	23.22	23.11	23.26	25.00
		1	49	23.15	23.13	23.26	25.00
		25	0	22.21	22.25	22.25	24.00
		25	13	22.05	22.28	22.27	24.00
		25	25	22.29	22.26	22.38	24.00
	16QAM	50	0	22.27	22.18	22.27	24.00
		1	0	22.07	22.44	22.64	24.00
		1	25	22.69	22.42	22.37	24.00
		1	49	22.29	22.56	22.29	24.00
		25	0	21.16	21.25	21.21	23.00
		25	13	21.20	21.09	21.15	23.00
	64QAM	25	25	21.13	21.24	21.41	23.00
		50	0	21.26	21.16	21.30	23.00
		1	0	21.21	21.52	21.76	23.00
		1	25	21.79	21.45	21.45	23.00
		1	49	21.32	21.67	21.40	23.00
		25	0	20.30	20.28	20.25	22.00
	256QAM	25	13	20.34	20.28	20.23	22.00
		25	25	20.31	20.39	20.45	22.00
		50	0	20.27	20.20	20.38	22.00
		1	0	19.21	19.51	19.82	21.00
		1	25	19.80	19.48	19.50	21.00
		1	49	19.35	19.64	19.53	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26775	26865	26965	
15MHz	QPSK	1	0	23.27	23.40	23.26	25.00
		1	38	23.23	23.12	23.25	25.00
		1	74	23.07	23.05	23.28	25.00
		36	0	22.23	22.27	22.20	24.00
		36	18	22.09	22.29	22.30	24.00
		36	39	22.31	22.17	22.32	24.00
	16QAM	75	0	22.25	22.13	22.27	24.00
		1	0	22.07	22.43	22.57	24.00
		1	38	22.67	22.45	22.43	24.00
		1	74	22.28	22.56	22.27	24.00
		36	0	21.13	21.31	21.17	23.00
		36	18	21.15	21.04	21.15	23.00
	64QAM	36	39	21.08	21.29	21.45	23.00
		75	0	21.30	21.15	21.32	23.00
		1	0	21.21	21.56	21.68	23.00
		1	38	21.78	21.41	21.48	23.00
		1	74	21.33	21.69	21.42	23.00
		36	0	20.25	20.37	20.33	22.00
		36	18	20.27	20.27	20.31	22.00



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	256QAM	36	39	20.23	20.37	20.46	22.00
		75	0	20.27	20.21	20.37	22.00
		1	0	19.17	19.51	19.82	21.00
		1	38	19.88	19.44	19.50	21.00
		1	74	19.39	19.68	19.52	21.00
		36	0	18.29	18.42	18.27	20.00
		36	18	18.38	18.31	18.28	20.00
		36	39	18.30	18.43	18.53	20.00
		75	0	18.36	18.31	18.48	20.00

LTE Band 2 Ant 0				Conducted Power(dBm)			
Bandwidth	Modulation		RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	23.39	23.61	23.32	25.00
		1	2	23.32	23.31	23.12	25.00
		1	5	23.08	23.27	23.21	25.00
		3	0	23.36	23.57	23.32	24.00
		3	2	23.31	23.30	23.07	24.00
		3	3	23.03	23.22	23.19	24.00
	16QAM	6	0	22.39	22.50	22.47	24.00
		1	0	22.58	22.60	22.50	24.00
		1	2	22.28	22.41	22.34	24.00
		1	5	22.23	22.16	22.16	24.00
		3	0	22.36	22.48	22.29	23.00
		3	2	22.26	22.40	22.21	23.00
	64QAM	3	3	22.47	22.56	22.49	23.00
		6	0	21.23	21.47	21.32	23.00
		1	0	21.40	21.62	21.67	23.00
		1	2	21.47	21.53	21.53	23.00
		1	5	21.57	21.75	21.47	23.00
		3	0	21.36	21.20	21.30	22.00
	256QAM	3	2	21.52	21.45	21.54	22.00
		3	3	21.33	21.26	21.52	22.00
		6	0	20.12	20.11	20.15	22.00
		1	0	19.42	19.47	19.36	21.00
		1	2	19.53	19.74	19.75	21.00
		1	5	19.61	19.64	19.59	21.00
3MHz	QPSK	3	0	19.25	19.37	19.46	20.00
		3	2	19.37	19.33	19.51	20.00
		3	3	19.44	19.34	19.33	20.00
		6	0	18.34	18.55	18.36	20.00
	16QAM	1	0	22.47	22.55	22.36	24.00
		1	7	23.17	23.25	23.33	25.00
		1	14	23.25	23.34	23.25	25.00
		8	0	22.36	22.53	22.27	24.00
		8	4	22.42	22.57	22.18	24.00
		8	7	22.40	22.62	22.46	24.00
		15	0	22.32	22.32	22.50	24.00
		1	0	22.47	22.55	22.36	24.00



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		1	7	22.28	22.42	22.34	24.00
		1	14	22.40	22.12	22.27	24.00
		8	0	21.16	21.44	21.41	23.00
		8	4	21.34	21.29	21.29	23.00
		8	7	21.57	21.49	21.27	23.00
		15	0	21.27	21.45	21.29	23.00
	64QAM	1	0	21.54	21.59	21.74	23.00
		1	7	21.55	21.63	21.50	23.00
		1	14	21.54	21.61	21.47	23.00
		8	0	21.37	21.24	21.31	22.00
		8	4	21.35	21.43	21.45	22.00
		8	7	21.29	21.26	21.43	22.00
		15	0	21.44	21.30	21.42	22.00
	256QAM	1	0	18.38	18.44	18.32	21.00
		1	7	18.66	18.66	18.81	21.00
		1	14	18.69	18.45	18.64	21.00
		8	0	18.35	18.22	18.47	20.00
		8	4	18.37	18.41	18.50	20.00
		8	7	18.24	18.41	18.33	20.00
		15	0	18.40	18.52	18.12	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	23.50	23.39	23.13	25.00
		1	13	23.23	23.24	23.25	25.00
		1	24	23.18	23.21	23.25	25.00
		12	0	22.40	22.45	22.32	24.00
		12	6	22.39	22.57	22.38	24.00
		12	13	22.31	22.42	22.56	24.00
	16QAM	25	0	22.35	22.38	22.43	24.00
		1	0	22.52	22.47	22.31	24.00
		1	13	22.47	22.32	22.39	24.00
		1	24	22.26	22.27	22.32	24.00
		12	0	21.36	21.32	21.40	23.00
		12	6	21.31	21.46	21.26	23.00
		12	13	21.45	21.57	21.29	23.00
		25	0	21.36	21.41	21.43	23.00
	64QAM	1	0	21.49	21.57	21.59	23.00
		1	13	21.37	21.67	21.66	23.00
		1	24	21.64	21.65	21.58	23.00
		12	0	21.32	21.38	21.31	22.00
		12	6	21.38	21.52	21.57	22.00
		12	13	21.28	21.30	21.54	22.00
	256QAM	25	0	21.43	21.42	21.49	22.00
		1	0	18.40	18.44	18.37	21.00
		1	13	18.63	18.49	18.72	21.00
		1	24	18.56	18.42	18.66	21.00
		12	0	18.30	18.21	18.29	20.00
		12	6	18.37	18.38	18.56	20.00
		12	13	18.40	18.33	18.27	20.00
		25	0	18.31	18.47	18.19	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	QPSK	1	0	23.50	23.46	23.22	25.00
		1	25	23.16	23.21	23.22	25.00



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		1	49	23.15	23.40	23.30	25.00
		25	0	22.26	22.59	22.32	24.00
		25	13	22.28	22.42	22.41	24.00
		25	25	22.34	22.49	22.39	24.00
		50	0	22.51	22.42	22.43	24.00
	16QAM	1	0	22.45	22.56	22.53	24.00
		1	25	22.39	22.32	22.37	24.00
		1	49	22.20	22.19	22.28	24.00
		25	0	21.28	21.38	21.46	23.00
		25	13	21.31	21.46	21.31	23.00
		25	25	21.53	21.54	21.26	23.00
	64QAM	50	0	21.22	21.46	21.43	23.00
		1	0	21.54	21.70	21.64	23.00
		1	25	21.35	21.63	21.64	23.00
		1	49	21.73	21.81	21.42	23.00
		25	0	21.29	21.28	21.34	22.00
		25	13	21.40	21.48	21.51	22.00
	256QAM	25	25	21.45	21.32	21.58	22.00
		50	0	21.36	21.39	21.49	22.00
		1	0	18.43	18.42	18.31	21.00
		1	25	18.68	18.68	18.62	21.00
		1	49	18.49	18.59	18.51	21.00
		25	0	18.38	18.25	18.47	20.00
		25	13	18.41	18.43	18.49	20.00
		25	25	18.39	18.48	18.21	20.00
		50	0	18.29	18.49	18.16	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
15MHz	QPSK	1	0	23.35	23.58	23.27	25.00
		1	38	23.23	23.22	23.33	25.00
		1	74	23.23	23.37	23.19	25.00
		36	0	22.20	22.46	22.39	24.00
		36	18	22.30	22.58	22.38	24.00
		36	39	22.36	22.47	22.36	24.00
		75	0	22.43	22.53	22.44	24.00
	16QAM	1	0	22.52	22.63	22.42	24.00
		1	38	22.48	22.50	22.22	24.00
		1	74	22.39	22.16	22.26	24.00
		36	0	21.31	21.47	21.44	23.00
		36	18	21.40	21.41	21.42	23.00
		36	39	21.52	21.49	21.30	23.00
		75	0	21.19	21.38	21.36	23.00
	64QAM	1	0	21.50	21.60	21.63	23.00
		1	38	21.45	21.56	21.72	23.00
		1	74	21.64	21.70	21.58	23.00
		36	0	21.42	21.38	21.37	22.00
		36	18	21.44	21.47	21.43	22.00
		36	39	21.36	21.32	21.46	22.00
		75	0	21.31	21.37	21.49	22.00
	256QAM	1	0	18.37	18.41	18.22	21.00
		1	38	18.65	18.59	18.62	21.00
		1	74	18.55	18.62	18.66	21.00
		36	0	18.21	18.29	18.38	20.00
		36	18	18.45	18.44	18.51	20.00
		36	39	18.40	18.46	18.34	20.00



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Bandwidth	Modulation	75	0	18.44	18.55	18.22	20.00
		RB size	RB offset	Channel 18700	Channel 18900	Channel 19100	Tune up
20MHz	QPSK	1	0	23.42	23.65	23.28	25.00
		1	50	23.16	23.41	23.22	25.00
		1	99	23.19	23.44	23.31	25.00
		50	0	22.23	22.40	22.39	24.00
		50	25	22.30	22.51	22.30	24.00
		50	50	22.30	22.57	22.47	24.00
		100	0	22.33	22.51	22.52	24.00
	16QAM	1	0	22.45	22.55	22.32	24.00
		1	50	22.30	22.30	22.43	24.00
		1	99	22.22	22.18	22.26	24.00
		50	0	21.18	21.54	21.34	23.00
		50	25	21.28	21.47	21.29	23.00
		50	50	21.44	21.66	21.35	23.00
		100	0	21.25	21.36	21.25	23.00
	64QAM	1	0	21.43	21.73	21.67	23.00
		1	50	21.47	21.72	21.67	23.00
		1	99	21.67	21.62	21.46	23.00
		50	0	21.34	21.23	21.35	22.00
		50	25	21.47	21.58	21.43	22.00
		50	50	21.43	21.47	21.62	22.00
		100	0	21.33	21.20	21.39	22.00
	256QAM	1	0	18.38	18.41	18.33	21.00
		1	50	18.71	18.59	18.76	21.00
		1	99	18.62	18.40	18.63	21.00
		50	0	18.24	18.19	18.43	20.00
		50	25	18.34	18.38	18.48	20.00
		50	50	18.23	18.50	18.23	20.00
		100	0	18.40	18.48	18.09	20.00

LTE Band 7 Ant 0				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	23.52	23.47	23.55	25.00
		1	13	23.47	23.51	23.38	25.00
		1	24	23.50	23.63	23.36	25.00
		12	0	22.64	22.69	22.42	24.00
		12	6	22.68	22.58	22.52	24.00
		12	13	22.61	22.59	22.50	24.00
		25	0	22.67	22.67	22.61	24.00
	16QAM	1	0	22.97	22.70	23.00	24.00
		1	13	22.73	22.98	22.87	24.00
		1	24	22.65	22.89	22.54	24.00
		12	0	21.63	21.69	21.55	23.00
		12	6	21.71	21.66	21.68	23.00
		12	13	21.58	21.63	21.56	23.00
		25	0	21.66	21.60	21.56	23.00
	64QAM	1	0	21.91	21.66	21.97	23.00
		1	13	21.75	22.00	21.85	23.00
		1	24	21.57	21.84	21.59	23.00



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		12	0	20.70	20.82	20.63	22.00
		12	6	20.76	20.75	20.75	22.00
		12	13	20.59	20.68	20.48	22.00
		25	0	20.55	20.55	20.66	22.00
	256QAM	1	0	19.89	19.68	20.05	21.00
		1	13	19.75	20.03	19.92	21.00
		1	24	19.58	19.87	19.55	21.00
		12	0	18.76	18.81	18.58	20.00
		12	6	18.80	18.74	18.75	20.00
		12	13	18.60	18.68	18.52	20.00
		25	0	18.59	18.59	18.64	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	
10MHz	QPSK	1	0	23.49	23.56	23.47	25.00
		1	25	23.43	23.70	23.50	25.00
		1	49	23.53	23.65	23.36	25.00
		25	0	22.58	22.66	22.45	24.00
		25	13	22.58	22.61	22.47	24.00
		25	25	22.60	22.61	22.53	24.00
		50	0	22.64	22.74	22.64	24.00
	16QAM	1	0	23.00	22.72	22.92	24.00
		1	25	22.78	22.98	22.84	24.00
		1	49	22.64	22.84	22.62	24.00
		25	0	21.70	21.74	21.54	23.00
		25	13	21.68	21.74	21.66	23.00
		25	25	21.53	21.62	21.56	23.00
		50	0	21.61	21.69	21.60	23.00
	64QAM	1	0	21.91	21.62	21.95	23.00
		1	25	21.83	22.05	21.88	23.00
		1	49	21.58	21.87	21.63	23.00
		25	0	20.67	20.77	20.58	22.00
		25	13	20.74	20.72	20.71	22.00
		25	25	20.58	20.62	20.47	22.00
		50	0	20.61	20.56	20.68	22.00
	256QAM	1	0	19.98	19.71	20.03	21.00
		1	25	19.80	20.02	19.80	21.00
		1	49	19.60	19.88	19.53	21.00
		25	0	18.78	18.80	18.57	20.00
		25	13	18.76	18.72	18.73	20.00
		25	25	18.58	18.69	18.43	20.00
		50	0	18.52	18.60	18.62	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	23.44	23.54	23.50	25.00
		1	38	23.52	23.65	23.41	25.00
		1	74	23.47	23.65	23.32	25.00
		36	0	22.58	22.63	22.39	24.00
		36	18	22.59	22.56	22.57	24.00
		36	39	22.65	22.59	22.45	24.00
		75	0	22.72	22.70	22.62	24.00
	16QAM	1	0	22.93	22.69	22.97	24.00
		1	38	22.81	23.01	22.83	24.00
		1	74	22.65	22.90	22.63	24.00



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		36	0	21.68	21.80	21.56	23.00
		36	18	21.69	21.77	21.64	23.00
		36	39	21.58	21.71	21.54	23.00
		75	0	21.56	21.68	21.57	23.00
	64QAM	1	0	21.97	21.65	21.97	23.00
		1	38	21.74	22.03	21.82	23.00
		1	74	21.65	21.91	21.56	23.00
		36	0	20.73	20.71	20.62	22.00
		36	18	20.78	20.69	20.70	22.00
		36	39	20.58	20.70	20.46	22.00
		75	0	20.52	20.58	20.58	22.00
	256QAM	1	0	19.92	19.69	20.02	21.00
		1	38	19.75	19.97	19.90	21.00
		1	74	19.56	19.84	19.60	21.00
		36	0	18.70	18.82	18.58	20.00
		36	18	18.72	18.76	18.78	20.00
		36	39	18.61	18.67	18.38	20.00
		75	0	18.53	18.60	18.58	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	0	23.55	23.79	23.55	25.00
		1	50	23.51	23.70	23.48	25.00
		1	99	23.56	23.70	23.46	25.00
		50	0	22.63	22.74	22.47	24.00
		50	25	22.67	22.63	22.59	24.00
		50	50	22.68	22.61	22.53	24.00
		100	0	22.73	22.76	22.66	24.00
	16QAM	1	0	23.06	22.78	23.03	24.00
		1	50	22.81	23.05	22.92	24.00
		1	99	22.66	22.93	22.64	24.00
		50	0	21.69	21.78	21.60	23.00
		50	25	21.75	21.78	21.75	23.00
		50	50	21.61	21.73	21.57	23.00
		100	0	21.69	21.72	21.64	23.00
	64QAM	1	0	22.03	21.70	22.05	23.00
		1	50	21.85	22.08	21.94	23.00
		1	99	21.66	21.95	21.66	23.00
		50	0	20.74	20.86	20.67	22.00
		50	25	20.83	20.75	20.76	22.00
		50	50	20.62	20.72	20.55	22.00
		100	0	20.63	20.66	20.67	22.00
	256QAM	1	0	19.89	19.61	20.00	21.00
		1	50	19.73	20.02	19.90	21.00
		1	99	19.57	19.81	19.60	21.00
		50	0	18.74	18.79	18.64	20.00
		50	25	18.73	18.76	18.78	20.00
		50	50	18.60	18.74	18.41	20.00
		100	0	18.55	18.56	18.65	20.00

LTE Band 2 Ant 1				Conducted Power(dBm)			
Bandwidth	Modulation		RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	



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1.4MHz	QPSK	1	0	23.61	23.58	23.60	25.00
		1	2	23.54	23.42	23.38	25.00
		1	5	23.23	23.35	23.15	25.00
		3	0	23.35	23.57	23.28	25.00
		3	2	23.29	23.28	23.12	25.00
		3	3	23.03	23.22	23.19	25.00
		6	0	22.38	22.46	22.43	24.00
	16QAM	1	0	22.98	22.93	23.00	24.00
		1	2	22.90	22.96	22.87	24.00
		1	5	22.72	22.73	22.71	24.00
		3	0	22.24	22.44	22.22	24.00
		3	2	22.48	22.56	22.46	24.00
		3	3	22.39	22.48	22.46	24.00
		6	0	21.31	21.47	21.33	23.00
	64QAM	1	0	21.21	21.31	21.36	23.00
		1	2	21.22	21.48	21.37	23.00
		1	5	21.50	21.60	21.26	23.00
		3	0	21.56	21.53	21.57	23.00
		3	2	21.55	21.54	21.49	23.00
		3	3	21.59	21.63	21.61	23.00
		6	0	20.65	20.44	20.65	22.00
	256QAM	1	0	19.52	19.69	19.74	21.00
		1	2	19.58	19.60	19.61	21.00
		1	5	19.25	19.36	19.41	21.00
		3	0	19.40	19.34	19.51	21.00
		3	2	19.43	19.34	19.34	21.00
		3	3	19.44	19.56	19.25	21.00
		6	0	18.53	18.51	18.46	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18615	18900	19185	
3MHz	QPSK	1	0	23.57	23.60	23.59	25.00
		1	7	23.54	23.41	23.38	25.00
		1	14	23.21	23.38	23.29	25.00
		8	0	22.42	22.50	22.43	24.00
		8	4	22.41	22.54	22.50	24.00
		8	7	22.60	22.57	22.55	24.00
		15	0	22.45	22.48	22.38	24.00
	16QAM	1	0	23.02	23.00	22.82	24.00
		1	7	22.98	22.93	22.86	24.00
		1	14	22.73	22.85	22.70	24.00
		8	0	21.38	21.49	21.47	23.00
		8	4	21.54	21.44	21.40	23.00
		8	7	21.48	21.62	21.53	23.00
		15	0	21.43	21.53	21.42	23.00
	64QAM	1	0	22.51	22.68	22.49	23.00
		1	7	22.48	22.74	22.58	23.00
		1	14	22.57	22.52	22.53	23.00
		8	0	21.62	21.51	21.43	22.00
		8	4	21.56	21.60	21.46	22.00
		8	7	21.61	21.48	21.58	22.00
		15	0	21.47	21.60	21.40	22.00
	256QAM	1	0	19.40	19.44	19.35	21.00
		1	7	19.54	19.71	19.78	21.00
		1	14	19.59	19.63	19.62	21.00



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		8	0	19.23	19.35	19.45	20.00
		8	4	18.53	18.60	18.40	20.00
		8	7	18.58	18.56	18.46	20.00
		15	0	18.52	18.51	18.35	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	23.48	23.57	23.60	25.00
		1	13	23.44	23.43	23.39	25.00
		1	24	23.28	23.36	23.18	25.00
		12	0	22.44	22.54	22.52	24.00
		12	6	22.44	22.45	22.49	24.00
		12	13	22.46	22.51	22.55	24.00
		25	0	22.43	22.44	22.46	24.00
	16QAM	1	0	22.97	22.91	22.83	24.00
		1	13	22.95	22.85	22.83	24.00
		1	24	22.64	22.86	22.72	24.00
		12	0	21.39	21.47	21.38	23.00
		12	6	21.53	21.45	21.36	23.00
		12	13	21.39	21.61	21.57	23.00
		25	0	21.48	21.52	21.33	23.00
	64QAM	1	0	22.48	22.54	22.60	23.00
		1	13	22.48	22.63	22.64	23.00
		1	24	22.49	22.68	22.50	23.00
		12	0	21.47	21.57	21.57	22.00
		12	6	21.45	21.64	21.45	22.00
		12	13	21.65	21.55	21.47	22.00
		25	0	21.56	21.50	21.46	22.00
	256QAM	1	0	19.42	19.47	19.35	21.00
		1	13	19.55	19.73	19.73	21.00
		1	24	19.58	19.61	19.61	21.00
		12	0	19.22	19.32	19.45	20.00
		12	6	18.49	18.68	18.52	20.00
		12	13	18.59	18.49	18.36	20.00
		25	0	18.53	18.55	18.31	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	QPSK	1	0	23.64	23.64	23.54	25.00
		1	25	23.39	23.41	23.45	25.00
		1	49	23.33	23.36	23.21	25.00
		25	0	22.31	22.54	22.47	24.00
		25	13	22.51	22.41	22.46	24.00
		25	25	22.58	22.51	22.42	24.00
		50	0	22.40	22.49	22.40	24.00
	16QAM	1	0	23.03	22.95	22.87	24.00
		1	25	22.91	22.82	22.86	24.00
		1	49	22.70	22.78	22.62	24.00
		25	0	21.55	21.55	21.41	23.00
		25	13	21.50	21.54	21.48	23.00
		25	25	21.41	21.56	21.54	23.00
		50	0	21.39	21.59	21.38	23.00
	64QAM	1	0	22.54	22.51	22.46	23.00
		1	25	22.60	22.68	22.55	23.00
		1	49	22.59	22.69	22.66	23.00
		25	0	21.56	21.45	21.57	22.00



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		25	13	21.39	21.63	21.52	22.00
		25	25	21.54	21.52	21.53	22.00
		50	0	21.57	21.55	21.42	22.00
	256QAM	1	0	19.42	19.45	19.34	21.00
		1	25	19.54	19.69	19.77	21.00
		1	49	19.63	19.60	19.58	21.00
		25	0	19.24	19.37	19.46	20.00
		25	13	18.52	18.66	18.56	20.00
		25	25	18.45	18.53	18.34	20.00
		50	0	18.48	18.45	18.41	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
15MHz	QPSK	1	0	23.48	23.56	23.64	25.00
		1	38	23.41	23.40	23.43	25.00
		1	74	23.20	23.39	23.24	25.00
		36	0	22.42	22.54	22.45	24.00
		36	18	22.46	22.51	22.39	24.00
		36	39	22.59	22.51	22.43	24.00
		75	0	22.46	22.54	22.45	24.00
	16QAM	1	0	22.92	22.97	22.81	24.00
		1	38	22.87	22.85	22.86	24.00
		1	74	22.61	22.69	22.66	24.00
		36	0	21.39	21.48	21.52	23.00
		36	18	21.53	21.45	21.47	23.00
		36	39	21.39	21.63	21.54	23.00
		75	0	21.41	21.61	21.45	23.00
	64QAM	1	0	22.57	22.68	22.59	23.00
		1	38	22.46	22.72	22.51	23.00
		1	74	22.60	22.61	22.54	23.00
		36	0	21.56	21.54	21.52	22.00
		36	18	21.54	21.48	21.47	22.00
		36	39	21.54	21.57	21.49	22.00
		75	0	21.47	21.45	21.44	22.00
	256QAM	1	0	19.39	19.43	19.34	21.00
		1	38	19.52	19.72	19.78	21.00
		1	74	19.60	19.61	19.57	21.00
		36	0	19.25	19.36	19.46	20.00
		36	18	18.43	18.53	18.48	20.00
		36	39	18.53	18.62	18.37	20.00
		75	0	18.55	18.44	18.33	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18700	18900	19100	
20MHz	QPSK	1	0	23.49	23.67	23.57	25.00
		1	50	23.39	23.56	23.30	25.00
		1	99	23.16	23.45	23.19	25.00
		50	0	22.31	22.58	22.48	24.00
		50	25	22.42	22.55	22.44	24.00
		50	50	22.54	22.50	22.54	24.00
		100	0	22.49	22.50	22.41	24.00
	16QAM	1	0	22.89	22.97	22.91	24.00
		1	50	22.82	22.96	22.88	24.00
		1	99	22.65	22.81	22.64	24.00
		50	0	21.55	21.42	21.54	23.00
		50	25	21.45	21.49	21.50	23.00
		50	50	21.55	21.49	21.59	23.00



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		100	0	21.32	21.61	21.46	23.00
	64QAM	1	0	22.44	22.65	22.52	23.00
		1	50	22.56	22.66	22.52	23.00
		1	99	22.62	22.54	22.61	23.00
		50	0	21.51	21.48	21.45	22.00
		50	25	21.55	21.52	21.45	22.00
		50	50	21.49	21.49	21.44	22.00
		100	0	21.41	21.62	21.44	22.00
	256QAM	1	0	19.41	19.45	19.36	21.00
		1	50	19.52	19.69	19.75	21.00
		1	99	19.61	19.62	19.62	21.00
		50	0	19.24	19.32	19.45	20.00
		50	25	18.53	18.69	18.50	20.00
		50	50	18.48	18.62	18.36	20.00
		100	0	18.57	18.46	18.41	20.00

LTE Band 4 Ant 1				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	23.77	23.73	23.52	25.00
		1	2	23.51	23.57	23.47	25.00
		1	5	23.29	23.57	23.42	25.00
		3	0	23.34	23.61	23.31	25.00
		3	2	23.29	23.26	23.12	25.00
		3	3	23.04	23.26	23.16	25.00
	16QAM	6	0	22.57	22.58	22.62	24.00
		1	0	22.77	22.68	22.64	24.00
		1	2	22.66	22.64	22.45	24.00
		1	5	22.40	22.44	22.43	24.00
		3	0	22.35	22.51	22.31	24.00
		3	2	22.26	22.43	22.23	24.00
	64QAM	3	3	22.50	22.58	22.46	24.00
		6	0	21.51	21.59	21.49	23.00
		1	0	21.63	21.82	21.84	23.00
		1	2	21.71	21.90	21.88	23.00
		1	5	21.89	21.86	21.82	23.00
		3	0	21.61	21.69	21.56	23.00
	256QAM	3	2	21.63	21.72	21.69	23.00
		3	3	21.65	21.70	21.58	23.00
		6	0	20.65	20.55	20.65	22.00
		1	0	19.41	19.42	19.33	21.00
		1	2	19.54	19.74	19.73	21.00
		1	5	19.63	19.59	19.62	21.00
3MHz	QPSK	3	0	19.22	19.35	19.41	21.00
		3	2	19.40	19.32	19.55	21.00
		3	3	19.41	19.35	19.32	21.00
		6	0	18.51	18.62	18.39	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19965	20175	20385	
3MHz	QPSK	1	0	23.76	23.78	23.50	25.00
		1	7	23.60	23.55	23.41	25.00



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		1	14	23.36	23.60	23.42	25.00
		8	0	22.43	22.73	22.53	24.00
		8	4	22.63	22.70	22.49	24.00
		8	7	22.58	22.60	22.72	24.00
		15	0	22.45	22.53	22.68	24.00
	16QAM	1	0	22.75	22.81	22.66	24.00
		1	7	22.63	22.58	22.60	24.00
		1	14	22.37	22.41	22.39	24.00
		8	0	21.56	21.57	21.67	23.00
		8	4	21.64	21.66	21.61	23.00
		8	7	21.64	21.64	21.56	23.00
		15	0	21.48	21.73	21.48	23.00
	64QAM	1	0	21.66	21.80	21.71	23.00
		1	7	21.65	21.87	21.71	23.00
		1	14	21.92	21.85	21.73	23.00
		8	0	20.18	20.45	20.32	22.00
		8	4	20.35	20.58	20.64	22.00
		8	7	20.45	20.48	20.52	22.00
		15	0	20.57	20.73	20.45	22.00
	256QAM	1	0	19.38	19.45	19.34	21.00
		1	7	19.54	19.74	19.75	21.00
		1	14	19.62	19.63	19.58	21.00
		8	0	19.22	19.35	19.41	20.00
		8	4	18.66	18.76	18.73	20.00
		8	7	18.52	18.68	18.53	20.00
		15	0	18.61	18.53	18.52	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	
5MHz	QPSK	1	0	23.65	23.71	23.63	25.00
		1	13	23.46	23.50	23.49	25.00
		1	24	23.27	23.55	23.46	25.00
		12	0	22.50	22.64	22.46	24.00
		12	6	22.64	22.76	22.62	24.00
		12	13	22.67	22.73	22.72	24.00
	16QAM	25	0	22.54	22.65	22.62	24.00
		1	0	22.69	22.78	22.61	24.00
		1	13	22.66	22.71	22.56	24.00
		1	24	22.37	22.42	22.39	24.00
		12	0	21.52	21.69	21.65	23.00
		12	6	21.56	21.64	21.53	23.00
	64QAM	12	13	21.60	21.75	21.57	23.00
		25	0	21.61	21.59	21.56	23.00
		1	0	21.73	21.78	21.71	23.00
		1	13	21.72	21.80	21.78	23.00
		1	24	21.92	21.84	21.85	23.00
		12	0	20.23	20.46	20.31	22.00
	256QAM	12	6	20.39	20.57	20.64	22.00
		12	13	20.44	20.49	20.51	22.00
		25	0	20.57	20.74	20.44	22.00
		1	0	19.39	19.42	19.35	21.00
		1	13	19.56	19.71	19.76	21.00
		1	24	19.62	19.63	19.61	21.00
		12	0	19.22	19.32	19.43	20.00
		12	6	18.62	18.59	18.64	20.00



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		12	13	18.61	18.64	18.57	20.00
		25	0	18.53	18.56	18.55	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	
10MHz	QPSK	1	0	23.71	23.76	23.48	25.00
		1	25	23.54	23.54	23.50	25.00
		1	49	23.38	23.66	23.39	25.00
		25	0	22.47	22.81	22.58	24.00
		25	13	22.67	22.67	22.55	24.00
		25	25	22.62	22.72	22.77	24.00
		50	0	22.55	22.63	22.51	24.00
	16QAM	1	0	22.74	22.77	22.74	24.00
		1	25	22.58	22.71	22.61	24.00
		1	49	22.36	22.51	22.41	24.00
		25	0	21.54	21.70	21.53	23.00
		25	13	21.56	21.72	21.56	23.00
		25	25	21.68	21.66	21.74	23.00
		50	0	21.59	21.75	21.60	23.00
	64QAM	1	0	21.73	21.90	21.80	23.00
		1	25	21.68	21.78	21.79	23.00
		1	49	21.93	21.89	21.80	23.00
		25	0	20.18	20.45	20.29	22.00
		25	13	20.40	20.57	20.63	22.00
		25	25	20.43	20.53	20.52	22.00
		50	0	20.54	20.73	20.47	22.00
	256QAM	1	0	19.42	19.46	19.36	21.00
		1	25	19.57	19.73	19.77	21.00
		1	49	19.63	19.61	19.58	21.00
		25	0	19.22	19.37	19.41	20.00
		25	13	18.53	18.74	18.69	20.00
		25	25	18.53	18.63	18.50	20.00
		50	0	18.58	18.68	18.57	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	23.75	23.74	23.57	25.00
		1	38	23.62	23.52	23.54	25.00
		1	74	23.40	23.56	23.30	25.00
		36	0	22.39	22.68	22.59	24.00
		36	18	22.59	22.79	22.56	24.00
		36	39	22.62	22.76	22.64	24.00
		75	0	22.62	22.59	22.69	24.00
	16QAM	1	0	22.78	22.81	22.68	24.00
		1	38	22.57	22.61	22.49	24.00
		1	74	22.34	22.45	22.48	24.00
		36	0	21.58	21.67	21.56	23.00
		36	18	21.59	21.68	21.56	23.00
		36	39	21.64	21.77	21.57	23.00
		75	0	21.58	21.70	21.60	23.00
	64QAM	1	0	21.71	21.84	21.72	23.00
		1	38	21.79	21.92	21.86	23.00
		1	74	21.91	21.87	21.83	23.00
		36	0	20.21	20.44	20.32	22.00
		36	18	20.36	20.61	20.67	22.00
		36	39	20.47	20.49	20.52	22.00
		75	0	20.56	20.70	20.42	22.00



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		1	0	19.41	19.44	19.35	21.00
		1	38	19.57	19.73	19.74	21.00
		1	74	19.59	19.61	19.62	21.00
	256QAM	36	0	19.24	19.34	19.44	20.00
		36	18	18.64	18.60	18.77	20.00
		36	39	18.54	18.71	18.52	20.00
		75	0	18.54	18.60	18.41	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20050	20175	20300	
20MHz	QPSK	1	0	23.80	23.85	23.60	25.00
		1	50	23.71	23.60	23.52	25.00
		1	99	23.41	23.76	23.42	25.00
		50	0	22.89	22.68	22.58	24.00
		50	25	22.86	22.66	22.69	24.00
		50	50	22.86	22.63	22.75	24.00
		100	0	22.72	22.72	22.64	24.00
	16QAM	1	0	22.79	22.81	22.81	24.00
		1	50	22.67	22.75	22.60	24.00
		1	99	22.54	22.66	22.51	24.00
		50	0	21.73	21.78	21.74	23.00
		50	25	21.69	21.72	21.63	23.00
		50	50	21.78	21.85	21.71	23.00
		100	0	21.61	21.83	21.70	23.00
	64QAM	1	0	21.85	21.88	21.90	23.00
		1	50	21.76	21.96	21.87	23.00
		1	99	22.01	22.04	21.89	23.00
		50	0	20.22	20.43	20.28	22.00
		50	25	20.40	20.59	20.65	22.00
		50	50	20.44	20.52	20.51	22.00
		100	0	20.56	20.73	20.44	22.00
	256QAM	1	0	19.38	19.45	19.35	21.00
		1	50	19.52	19.72	19.74	21.00
		1	99	19.60	19.63	19.57	21.00
		50	0	19.20	19.35	19.42	20.00
		50	25	18.78	18.85	18.71	20.00
		50	50	18.69	18.75	18.67	20.00
		100	0	18.66	18.73	18.52	20.00

LTE Band 7 Ant 1				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	23.66	23.52	23.42	25.00
		1	13	23.69	23.58	23.40	25.00
		1	24	23.52	23.49	23.35	25.00
		12	0	22.78	22.57	22.45	24.00
		12	6	22.76	22.54	22.50	24.00
		12	13	22.68	22.53	22.57	24.00
		25	0	22.76	22.54	22.30	24.00
	16QAM	1	0	22.92	22.75	22.73	24.00
		1	13	22.90	22.98	22.80	24.00
		1	24	22.82	22.78	22.92	24.00
		12	0	21.77	21.66	21.38	23.00



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		12	6	21.80	21.51	21.47	23.00	
		12	13	21.72	21.61	21.52	23.00	
		25	0	21.79	21.46	21.38	23.00	
		1	0	21.89	21.81	21.68	23.00	
		1	13	21.88	21.99	21.78	23.00	
		1	24	21.82	21.70	21.95	23.00	
		12	0	20.76	20.66	20.41	22.00	
		12	6	20.83	20.46	20.46	22.00	
		12	13	20.68	20.64	20.58	22.00	
	25	0	20.77	20.53	20.40	22.00		
	256QAM	1	0	19.88	19.75	19.76	21.00	
		1	13	19.89	20.02	19.86	21.00	
		1	24	19.80	19.74	19.98	21.00	
		12	0	18.71	18.65	18.39	20.00	
		12	6	18.86	18.44	18.49	20.00	
12		13	18.68	18.61	18.58	20.00		
25	0	18.79	18.58	18.39	20.00			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20800	21100	21400		
10MHz	QPSK	1	0	23.63	23.48	23.41	25.00	
		1	25	23.75	23.56	23.34	25.00	
		1	49	23.59	23.43	23.39	25.00	
		25	0	22.78	22.52	22.47	24.00	
		25	13	22.73	22.58	22.47	24.00	
		25	25	22.68	22.54	22.57	24.00	
	16QAM	50	0	22.81	22.54	22.32	24.00	
		1	0	22.90	22.74	22.75	24.00	
		1	25	22.89	22.96	22.81	24.00	
		1	49	22.78	22.76	22.84	24.00	
		25	0	21.80	21.65	21.42	23.00	
		25	13	21.83	21.50	21.41	23.00	
	64QAM	25	25	21.72	21.59	21.53	23.00	
		50	0	21.75	21.46	21.37	23.00	
		1	0	21.90	21.78	21.74	23.00	
		1	25	21.91	22.01	21.80	23.00	
		1	49	21.78	21.71	21.93	23.00	
		25	0	20.78	20.69	20.36	22.00	
	256QAM	25	13	20.86	20.43	20.48	22.00	
		25	25	20.68	20.62	20.54	22.00	
		50	0	20.80	20.51	20.43	22.00	
		1	0	19.92	19.82	19.70	21.00	
		1	25	19.91	20.05	19.73	21.00	
		1	49	19.84	19.74	19.92	21.00	
			25	0	18.75	18.68	18.43	20.00
			25	13	18.86	18.48	18.44	20.00
			25	25	18.61	18.59	18.57	20.00
50			0	18.85	18.56	18.44	20.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				20825	21100	21375		
15MHz	QPSK	1	0	23.60	23.45	23.41	25.00	
		1	38	23.69	23.55	23.38	25.00	
		1	74	23.52	23.43	23.37	25.00	
		36	0	22.80	22.59	22.48	24.00	



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		36	18	22.75	22.60	22.50	24.00
		36	39	22.65	22.48	22.54	24.00
		75	0	22.73	22.54	22.32	24.00
		1	0	22.91	22.72	22.66	24.00
		1	38	22.84	22.80	22.81	24.00
		1	74	22.78	22.76	22.90	24.00
		36	0	21.78	21.68	21.39	23.00
		36	18	21.78	21.49	21.48	23.00
		36	39	21.70	21.61	21.48	23.00
	16QAM	75	0	21.77	21.45	21.36	23.00
		1	0	21.93	21.79	21.73	23.00
		1	38	21.91	21.99	21.78	23.00
		1	74	21.83	21.77	21.97	23.00
		36	0	20.71	20.71	20.39	22.00
		36	18	20.83	20.47	20.52	22.00
		36	39	20.69	20.59	20.58	22.00
		75	0	20.85	20.52	20.37	22.00
	64QAM	1	0	19.88	19.79	19.75	21.00
		1	38	19.92	19.94	19.83	21.00
		1	74	19.81	19.77	19.95	21.00
		36	0	18.79	18.71	18.42	20.00
		36	18	18.85	18.47	18.53	20.00
		36	39	18.63	18.62	18.56	20.00
		75	0	18.76	18.47	18.36	20.00
	256QAM	1	0	19.88	19.79	19.75	21.00
		1	38	19.92	19.94	19.83	21.00
		1	74	19.81	19.77	19.95	21.00
		36	0	18.79	18.71	18.42	20.00
		36	18	18.85	18.47	18.53	20.00
		36	39	18.63	18.62	18.56	20.00
		75	0	18.76	18.47	18.36	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	0	23.79	23.84	23.47	25.00
		1	50	23.78	23.64	23.47	25.00
		1	99	23.63	23.54	23.43	25.00
		50	0	22.88	22.60	22.57	24.00
		50	25	22.84	22.68	22.56	24.00
		50	50	22.76	22.59	22.62	24.00
	16QAM	100	0	22.81	22.60	22.41	24.00
		1	0	23.01	22.80	22.77	24.00
		1	50	22.97	23.08	22.86	24.00
		1	99	22.87	22.85	22.96	24.00
		50	0	21.84	21.76	21.49	23.00
		50	25	21.83	21.56	21.54	23.00
	64QAM	50	50	21.76	21.67	21.59	23.00
		100	0	21.87	21.54	21.44	23.00
		1	0	21.97	21.89	21.83	23.00
		1	50	21.95	22.04	21.88	23.00
		1	99	21.85	21.82	21.97	23.00
		50	0	20.86	20.74	20.46	22.00
	256QAM	50	25	20.92	20.56	20.57	22.00
		50	50	20.73	20.67	20.63	22.00
		100	0	20.90	20.57	20.44	22.00
		1	0	19.96	19.92	19.81	21.00
		1	50	19.89	20.03	19.83	21.00
		1	99	19.92	19.83	19.97	21.00
		50	0	18.80	18.71	18.43	20.00
		50	25	18.86	18.57	18.54	20.00
		50	50	18.77	18.68	18.65	20.00
		100	0	18.87	18.54	18.44	20.00



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LTE Band 41 Ant 1				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39675	40148	40620	41093	41565	
5MHz	QPSK	1	0	23.62	23.89	23.86	23.59	23.87	25.00
		1	13	23.74	23.88	23.85	23.7	23.85	25.00
		1	24	23.66	23.98	23.75	23.61	23.96	25.00
		12	0	22.66	22.86	22.88	22.63	22.85	24.00
		12	6	22.76	22.95	22.89	22.75	22.94	24.00
		12	13	22.67	22.98	22.79	22.63	22.98	24.00
	16QAM	25	0	22.66	22.93	22.99	22.66	22.92	24.00
		1	0	22.73	22.88	22.93	22.69	22.83	24.00
		1	13	22.8	23.06	22.85	22.79	23.05	24.00
		1	24	22.6	22.87	22.95	22.6	22.85	24.00
		12	0	21.65	21.89	21.96	21.62	21.86	23.00
		12	6	21.8	22.08	21.89	21.79	22.05	23.00
	64QAM	12	13	21.75	22.07	21.78	21.72	22.04	23.00
		25	0	21.66	21.86	21.95	21.64	21.83	23.00
		1	0	21.85	21.94	21.92	21.82	21.94	23.00
		1	13	21.81	22.00	21.84	21.76	21.96	23.00
		1	24	21.77	22.12	21.76	21.75	22.09	23.00
		12	0	20.70	20.98	20.89	20.69	20.93	22.00
	256QAM	12	6	20.87	21.01	21.02	20.86	20.98	22.00
		12	13	20.75	21.11	20.93	20.70	21.10	22.00
		25	0	20.73	20.82	21.02	20.70	20.77	22.00
		1	0	19.88	20.04	20.00	19.87	20.03	21.00
		1	13	19.83	20.12	19.86	19.78	20.12	21.00
		1	24	19.88	20.10	19.82	19.87	20.08	21.00
10MHz	QPSK	12	0	18.81	19.01	18.97	18.76	18.97	20.00
		12	6	18.91	19.05	19.09	18.88	19.00	20.00
		12	13	18.79	19.16	18.95	18.78	19.13	20.00
		25	0	18.76	18.89	19.09	18.73	18.85	20.00
	16QAM	1	0	23.59	23.85	23.86	23.56	23.83	25.00
		1	25	23.68	23.87	23.88	23.64	23.82	25.00
		1	49	23.67	23.98	23.73	23.67	23.94	25.00
		25	0	22.61	22.94	22.96	22.57	22.93	24.00
		25	13	22.77	23.01	22.93	22.77	23	24.00
		25	25	22.71	22.93	22.81	22.69	22.92	24.00
	64QAM	50	0	22.67	22.88	22.89	22.64	22.87	24.00
		1	0	22.76	22.92	22.88	22.71	22.9	24.00
		1	25	22.72	22.96	22.86	22.67	22.92	24.00
		1	49	22.64	22.91	22.97	22.63	22.88	24.00
		25	0	21.71	21.87	21.96	21.71	21.86	23.00
		25	13	21.8	22.07	21.88	21.8	22.07	23.00
	QPSK	25	25	21.75	22.09	21.76	21.71	22.09	23.00
		50	0	21.65	21.89	21.93	21.65	21.88	23.00
		1	0	21.90	22.02	21.86	21.90	21.97	23.00
		1	25	21.80	22.10	21.82	21.76	22.05	23.00
		1	49	21.82	22.17	21.81	21.80	22.13	23.00
		1	25	21.82	22.17	21.81	21.80	22.13	23.00



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		25	0	20.75	20.96	20.95	20.74	20.92	22.00
		25	13	20.92	20.98	21.02	20.89	20.96	22.00
		25	25	20.81	21.10	20.94	20.78	21.06	22.00
		50	0	20.69	20.91	20.96	20.69	20.91	22.00
	256QAM	1	0	19.96	20.11	19.89	19.95	20.10	21.00
		1	25	19.79	20.17	19.82	19.79	20.13	21.00
		1	49	19.92	20.17	19.80	19.90	20.17	21.00
		25	0	18.76	18.97	18.93	18.74	18.96	20.00
		25	13	18.97	19.08	19.11	18.96	19.08	20.00
		25	25	18.91	19.11	18.95	18.88	19.07	20.00
		50	0	18.73	18.91	19.00	18.73	18.89	20.00
		50	0	18.73	18.91	19.00	18.73	18.89	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39725	40173	40620	41068	41515	
15MHz	QPSK	1	0	23.61	23.81	23.88	23.59	23.8	25.00
		1	38	23.75	23.9	23.9	23.71	23.86	25.00
		1	74	23.69	23.95	23.78	23.68	23.92	25.00
		36	0	22.63	22.87	22.93	22.6	22.84	24.00
		36	18	22.72	22.94	22.85	22.68	22.92	24.00
		36	39	22.67	23	22.72	22.65	22.99	24.00
		75	0	22.59	22.89	22.98	22.56	22.84	24.00
		75	0	22.59	22.89	22.98	22.56	22.84	24.00
	16QAM	1	0	22.73	22.84	22.93	22.69	22.79	24.00
		1	38	22.72	23.03	22.75	22.68	23.03	24.00
		1	74	22.61	22.84	22.92	22.61	22.83	24.00
		36	0	21.64	21.88	21.96	21.63	21.84	23.00
		36	18	21.82	22.04	21.97	21.8	22.02	23.00
		36	39	21.71	22.03	21.82	21.68	21.98	23.00
		75	0	21.65	21.91	21.91	21.65	21.9	23.00
		75	0	21.65	21.91	21.91	21.65	21.9	23.00
	64QAM	1	0	21.83	21.94	21.97	21.80	21.92	23.00
		1	38	21.81	22.02	21.83	21.80	22.02	23.00
		1	74	21.81	22.12	21.80	21.78	22.12	23.00
		36	0	20.78	20.97	20.89	20.78	20.95	22.00
		36	18	20.83	21.01	21.08	20.78	21.01	22.00
		36	39	20.88	21.05	20.90	20.84	21.02	22.00
		75	0	20.66	20.89	21.03	20.62	20.84	22.00
		75	0	20.66	20.89	21.03	20.62	20.84	22.00
	256QAM	1	0	19.91	19.92	20.08	19.90	19.89	21.00
		1	38	19.84	20.09	19.85	19.81	20.09	21.00
		1	74	19.92	20.18	19.90	19.91	20.15	21.00
		36	0	18.80	19.05	18.95	18.75	19.00	20.00
		36	18	18.86	19.10	19.09	18.84	19.08	20.00
		36	39	18.89	19.02	18.97	18.87	18.97	20.00
		75	0	18.63	18.88	19.09	18.62	18.83	20.00
		75	0	18.63	18.88	19.09	18.62	18.83	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39750	40185	40620	41055	41490	
20MHz	QPSK	1	0	23.87	24.1	24.31	23.87	24.05	25.00
		1	50	23.79	23.98	23.94	23.74	23.93	25.00
		1	99	23.76	24.07	23.84	23.72	24.04	25.00
		50	0	22.72	22.93	23.01	22.69	22.89	24.00
		50	25	22.77	23	22.95	22.75	23	24.00
		50	50	22.79	23.02	22.82	22.75	23.02	24.00
		100	0	22.7	22.96	23.01	22.65	22.91	24.00
		100	0	22.7	22.96	23.01	22.65	22.91	24.00
	16QAM	1	0	22.8	22.98	23.02	22.77	22.98	24.00
		1	50	22.84	23.03	22.87	22.81	22.98	24.00
		1	99	22.67	22.94	23	22.62	22.94	24.00
		50	0	21.74	21.98	22.09	21.74	21.97	23.00



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		50	25	21.84	22.06	21.99	21.82	22.02	23.00
		50	50	21.81	22.09	21.83	21.77	22.08	23.00
		100	0	21.7	21.9	21.95	21.66	21.87	23.00
	64QAM	1	0	21.92	21.98	21.94	21.91	21.98	23.00
		1	50	21.87	22.10	21.84	21.82	22.07	23.00
		1	99	21.82	22.15	21.86	21.77	22.13	23.00
		50	0	20.82	20.99	20.98	20.80	20.97	22.00
		50	25	20.92	21.01	21.09	20.89	21.01	22.00
		50	50	20.86	21.14	20.93	20.86	21.14	22.00
		100	0	20.75	20.91	21.07	20.73	20.90	22.00
	256QAM	1	0	20.00	20.04	20.02	19.96	20.04	21.00
		1	50	19.88	20.22	19.86	19.87	20.17	21.00
		1	99	19.81	20.19	19.89	19.79	20.17	21.00
		50	0	18.82	19.06	18.93	18.77	19.01	20.00
		50	25	18.98	19.10	19.14	18.93	19.07	20.00
		50	50	18.96	19.23	18.97	18.94	19.21	20.00
		100	0	18.81	18.98	19.14	18.78	18.95	20.00

LTE Band 42 Ant 4				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42115	42590	43065	
5MHz	QPSK	1	0	23.23	23.37	23.25	25.00
		1	13	23.12	23.35	23.14	25.00
		1	24	23.11	23.32	23.22	25.00
		12	0	22.30	22.45	22.01	24.00
		12	6	22.12	22.52	22.13	24.00
		12	13	22.20	22.46	22.02	24.00
		25	0	22.25	22.37	22.12	24.00
	16QAM	1	0	22.12	22.45	22.15	24.00
		1	13	22.25	22.36	22.14	24.00
		1	24	22.43	22.45	22.23	24.00
		12	0	21.32	21.42	21.01	23.00
		12	6	21.34	21.37	21.11	23.00
		12	13	21.17	21.50	21.21	23.00
		25	0	21.10	21.19	21.20	23.00
	64QAM	1	0	21.34	21.45	21.07	23.00
		1	13	21.09	21.49	21.20	23.00
		1	24	21.24	21.13	21.10	23.00
		12	0	20.33	20.48	20.05	22.00
		12	6	20.10	20.45	20.19	22.00
		12	13	20.26	20.37	20.15	22.00
		25	0	20.35	20.47	20.02	22.00
	256QAM	1	0	19.45	19.51	19.15	21.00
		1	13	19.13	19.59	19.23	21.00



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		1	24	19.29	19.23	19.11	21.00
		12	0	18.42	18.57	18.13	20.00
		12	6	18.06	18.50	18.23	20.00
		12	13	18.28	18.46	18.19	20.00
		25	0	18.36	18.57	18.15	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42140	42590	43040	
10MHz	QPSK	1	0	23.26	23.31	23.03	25.00
		1	25	23.34	23.41	23.16	25.00
		1	49	23.15	23.30	23.04	25.00
		25	0	22.38	22.45	22.09	24.00
		25	13	22.19	22.48	22.22	24.00
		25	25	22.18	22.40	22.09	24.00
		50	0	22.28	22.44	22.19	24.00
	16QAM	1	0	22.09	22.49	22.16	24.00
		1	25	22.30	22.31	22.11	24.00
		1	49	22.41	22.50	22.17	24.00
		25	0	21.34	21.38	21.35	23.00
		25	13	21.34	21.39	21.16	23.00
		25	25	21.09	21.55	21.28	23.00
		50	0	21.16	21.17	21.22	23.00
	64QAM	1	0	21.31	21.50	21.07	23.00
		1	25	21.07	21.47	21.11	23.00
		1	49	21.43	21.43	21.09	23.00
		25	0	20.42	20.50	20.09	22.00
		25	13	20.72	20.53	20.13	22.00
		25	25	20.27	20.42	20.17	22.00
		50	0	20.33	20.49	20.08	22.00
	256QAM	1	0	19.36	19.51	19.08	21.00
		1	25	19.12	19.56	19.15	21.00
		1	49	19.44	19.52	19.15	21.00
		25	0	18.43	18.59	18.16	20.00
		25	13	18.74	18.53	18.24	20.00
		25	25	18.36	18.42	18.25	20.00
		50	0	18.41	18.53	18.12	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42165	42590	43015	
15MHz	QPSK	1	0	23.26	23.33	23.12	25.00
		1	38	23.12	23.36	23.16	25.00
		1	74	23.17	23.30	23.06	25.00
		36	0	22.29	22.46	22.08	24.00



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		36	18	22.21	22.47	22.15	24.00
		36	39	22.22	22.44	22.02	24.00
		75	0	22.23	22.40	22.16	24.00
	16QAM	1	0	22.13	22.49	22.19	24.00
		1	38	22.32	22.23	22.17	24.00
		1	74	22.40	22.46	22.16	24.00
		36	0	21.39	21.43	21.05	23.00
		36	18	21.33	21.36	21.21	23.00
		36	39	21.11	21.49	21.16	23.00
		75	0	21.24	21.28	21.50	23.00
	64QAM	1	0	21.37	21.44	21.11	23.00
		1	38	21.24	21.52	21.19	23.00
		1	74	21.15	21.11	21.25	23.00
		36	0	20.34	20.39	20.06	22.00
		36	18	20.10	20.46	20.12	22.00
		36	39	20.33	20.47	20.20	22.00
		75	0	20.41	20.53	20.03	22.00
	256QAM	1	0	19.42	19.53	19.11	21.00
		1	38	19.31	19.52	19.23	21.00
		1	74	19.11	19.11	19.28	21.00
		36	0	18.38	18.50	18.12	20.00
		36	18	18.19	18.54	18.23	20.00
		36	39	18.32	18.49	18.26	20.00
		75	0	18.50	18.59	18.06	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42190	42590	42990	
20MHz	QPSK	1	0	23.59	23.77	23.55	25.00
		1	50	23.38	23.73	23.48	25.00
		1	99	23.48	23.63	23.41	25.00
		50	0	22.69	22.81	22.43	24.00
		50	25	22.47	22.84	22.49	24.00
		50	50	22.54	22.76	22.45	24.00
		100	0	22.61	22.73	22.51	24.00
	16QAM	1	0	22.45	22.87	22.52	24.00
		1	50	22.62	22.67	22.45	24.00
		1	99	22.74	22.79	22.51	24.00
		50	0	21.65	21.80	21.38	23.00
		50	25	21.67	21.70	21.49	23.00
		50	50	21.49	21.90	21.53	23.00
		100	0	21.49	21.34	21.34	23.00
	64QAM	1	0	21.71	21.75	21.44	23.00



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		1	50	21.39	21.82	21.54	23.00
		1	99	21.67	21.44	21.55	23.00
		50	0	20.72	20.83	20.41	22.00
		50	25	20.43	20.81	20.51	22.00
		50	50	20.62	20.80	20.51	22.00
		100	0	20.75	20.82	20.37	22.00
	256QAM	1	0	19.76	19.86	19.53	21.00
		1	50	19.52	19.86	19.59	21.00
		1	99	19.71	19.48	19.55	21.00
		50	0	18.71	18.85	18.50	20.00
		50	25	18.48	18.81	18.58	20.00
		50	50	18.71	18.84	18.62	20.00
		100	0	18.78	18.91	18.50	20.00

LTE Band 42 Ant 6				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42115	42590	43065	
5MHz	QPSK	1	0	23.31	23.57	23.51	25.00
		1	13	23.27	23.66	23.48	25.00
		1	24	23.14	23.43	23.54	25.00
		12	0	22.29	22.72	22.50	24.00
		12	6	22.27	22.59	22.46	24.00
		12	13	22.13	22.56	22.55	24.00
		25	0	22.26	22.56	22.53	24.00
	16QAM	1	0	22.12	22.31	22.43	24.00
		1	13	22.19	22.61	22.43	24.00
		1	24	22.46	22.55	22.23	24.00
		12	0	21.13	21.47	21.44	23.00
		12	6	21.48	21.46	21.44	23.00
		12	13	21.49	21.51	21.37	23.00
		25	0	21.23	21.43	21.49	23.00
	64QAM	1	0	20.99	21.27	21.50	23.00
		1	13	21.61	21.69	21.51	23.00
		1	24	21.47	21.59	21.06	23.00
		12	0	20.05	20.42	20.45	22.00
		12	6	20.60	20.61	20.57	22.00
		12	13	20.74	20.72	20.41	22.00
		25	0	20.01	20.56	20.49	22.00
	256QAM	1	0	19.00	19.33	19.54	21.00
		1	13	19.71	19.72	19.62	21.00



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		1	24	19.51	19.69	19.12	21.00
		12	0	18.11	18.49	18.50	20.00
		12	6	18.65	18.71	18.62	20.00
		12	13	18.76	18.75	18.51	20.00
		25	0	18.10	18.57	18.53	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42140	42590	43040	
10MHz	QPSK	1	0	23.25	23.48	23.42	25.00
		1	25	23.24	23.62	23.52	25.00
		1	49	23.23	23.49	23.45	25.00
		25	0	22.25	22.63	22.54	24.00
		25	13	22.28	22.63	22.40	24.00
		25	25	22.18	22.59	22.48	24.00
		50	0	22.22	22.54	22.58	24.00
	16QAM	1	0	22.13	22.32	22.41	24.00
		1	25	22.09	22.63	22.43	24.00
		1	49	22.41	22.53	22.04	24.00
		25	0	21.17	21.40	21.47	23.00
		25	13	21.49	21.49	21.53	23.00
		25	25	21.17	21.59	21.33	23.00
		50	0	21.00	21.50	21.47	23.00
	64QAM	1	0	21.01	21.27	21.50	23.00
		1	25	21.16	21.64	21.50	23.00
		1	49	21.40	21.60	21.00	23.00
		25	0	20.01	20.42	20.51	22.00
		25	13	20.84	20.63	20.56	22.00
		25	25	19.97	20.64	20.42	22.00
		50	0	19.97	20.54	20.42	22.00
	256QAM	1	0	19.06	19.34	19.58	21.00
		1	25	19.63	19.70	19.55	21.00
		1	49	19.52	19.66	19.07	21.00
		25	0	18.08	18.46	18.50	20.00
		25	13	18.65	18.61	18.68	20.00
		25	25	18.75	18.71	18.44	20.00
		50	0	18.01	18.55	18.57	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42165	42590	43015	
15MHz	QPSK	1	0	23.32	23.56	23.44	25.00
		1	38	23.30	23.63	23.47	25.00
		1	74	23.26	23.48	23.56	25.00
		36	0	22.23	22.61	22.58	24.00



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		36	18	22.21	22.66	22.45	24.00
		36	39	22.16	22.61	22.48	24.00
		75	0	22.18	22.57	22.53	24.00
	16QAM	1	0	22.01	22.27	22.47	24.00
		1	38	22.12	22.54	22.42	24.00
		1	74	22.18	22.32	22.07	24.00
		36	0	21.07	21.25	21.31	23.00
		36	18	21.06	21.34	21.22	23.00
		36	39	21.13	21.37	21.14	23.00
		75	0	21.24	21.24	21.25	23.00
	64QAM	1	0	21.05	21.13	21.27	23.00
		1	38	21.15	21.44	21.33	23.00
		1	74	21.48	21.37	21.01	23.00
		36	0	20.08	20.28	20.36	22.00
		36	18	20.15	20.41	20.34	22.00
		36	39	20.10	20.45	20.21	22.00
		75	0	20.16	20.42	20.25	22.00
	256QAM	1	0	19.06	19.30	19.58	21.00
		1	38	19.67	19.75	19.57	21.00
		1	74	19.50	19.64	19.09	21.00
		36	0	18.09	18.43	18.57	20.00
		36	18	18.64	18.63	18.61	20.00
		36	39	18.77	18.76	18.50	20.00
		75	0	18.11	18.57	18.54	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42190	42590	42990	
20MHz	QPSK	1	0	23.62	23.96	23.78	25.00
		1	50	23.56	23.91	23.84	25.00
		1	99	23.51	23.75	23.86	25.00
		50	0	22.57	22.99	22.82	24.00
		50	25	22.57	22.94	22.79	24.00
		50	50	22.39	22.89	22.85	24.00
		100	0	22.52	22.84	22.83	24.00
	16QAM	1	0	22.30	22.63	22.77	24.00
		1	50	22.45	22.92	22.74	24.00
		1	99	22.70	22.82	22.36	24.00
		50	0	21.31	21.73	21.84	23.00
		50	25	21.95	21.80	21.79	23.00
		50	50	21.38	21.85	21.63	23.00
		100	0	21.29	21.79	21.73	23.00
	64QAM	1	0	21.57	21.63	21.83	23.00



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		1	50	21.66	21.99	21.84	23.00
		1	99	21.89	21.91	21.39	23.00
		50	0	20.34	20.75	20.79	22.00
		50	25	20.36	20.94	20.90	22.00
		50	50	20.23	20.99	20.73	22.00
		100	0	20.35	20.87	20.76	22.00
	256QAM	1	0	19.47	19.64	19.79	21.00
		1	50	20.18	19.95	19.78	21.00
		1	99	19.97	19.91	19.42	21.00
		50	0	18.33	18.69	18.80	20.00
		50	25	19.12	18.91	18.82	20.00
		50	50	19.17	19.08	18.68	20.00
		100	0	18.32	18.89	18.79	20.00

LTE Band 2 Ant 0 Sensor On SA				Conducted Power(dBm)			
Bandwidth	Modulation		RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	15.96	16.16	16.05	17.50
		1	2	15.95	15.95	16.05	17.50
		1	5	15.82	16.02	15.93	17.50
		3	0	16.05	16.10	16.07	17.50
		3	2	15.96	15.96	16.08	17.50
		3	3	16.00	16.09	15.82	17.50
	16QAM	6	0	15.94	16.08	16.05	17.50
		1	0	15.92	16.03	16.04	17.50
		1	2	15.94	16.17	15.98	17.50
		1	5	15.98	16.01	16.16	17.50
		3	0	16.03	16.03	16.12	17.50
		3	2	15.96	16.06	15.99	17.50
	64QAM	3	3	16.06	16.03	16.05	17.50
		6	0	15.87	16.00	15.97	17.50
		1	0	16.00	15.99	15.97	17.50
		1	2	16.16	15.88	16.05	17.50
		1	5	16.09	15.88	16.00	17.50
		3	0	16.07	16.02	15.93	17.50
	256QAM	3	2	16.01	15.94	16.13	17.50
		3	3	16.06	15.94	16.10	17.50
		6	0	15.78	15.94	15.86	17.50
		1	0	15.87	15.91	16.04	17.50
		1	2	15.84	16.07	16.03	17.50
		1	5	15.98	15.95	15.82	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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				18615	18900	19185	
3MHz	QPSK	1	0	16.05	16.23	16.09	17.50
		1	7	15.94	16.02	16.06	17.50
		1	14	15.86	16.02	15.89	17.50
		8	0	16.08	16.15	16.06	17.50
		8	4	15.99	16.07	16.01	17.50
		8	7	15.98	16.18	15.82	17.50
	16QAM	15	0	16.00	16.15	16.04	17.50
		1	0	15.83	16.11	16.07	17.50
		1	7	15.94	16.13	15.90	17.50
		1	14	15.98	15.96	16.12	17.50
		8	0	16.02	16.04	16.12	17.50
		8	4	15.88	16.03	16.03	17.50
	64QAM	8	7	16.06	16.10	16.05	17.50
		15	0	15.85	16.05	16.01	17.50
		1	0	15.99	15.94	15.99	17.50
		1	7	16.14	16.00	16.05	17.50
		1	14	16.06	15.98	16.04	17.50
		8	0	16.05	16.10	15.93	17.50
5MHz	QPSK	8	4	15.93	15.90	16.20	17.50
		8	7	16.11	15.94	16.08	17.50
		15	0	15.81	16.04	15.96	17.50
	16QAM	1	0	15.85	15.90	16.05	17.50
		1	7	15.78	16.04	16.08	17.50
		1	14	15.86	15.93	15.82	17.50
	64QAM	8	0	15.86	16.07	16.00	17.50
		8	4	16.00	16.01	15.94	17.50
		8	7	15.94	15.97	15.91	17.50
		15	0	15.90	16.07	15.76	17.50
5MHz	QPSK	1	0	15.95	16.16	16.13	17.50
		1	13	15.97	16.01	15.97	17.50
		1	24	15.79	15.97	15.92	17.50
		12	0	16.04	16.10	16.09	17.50
		12	6	15.92	15.94	16.04	17.50
		12	13	16.02	16.16	15.90	17.50
	16QAM	25	0	15.98	16.14	16.13	17.50
		1	0	15.82	16.10	15.99	17.50
		1	13	15.99	16.06	15.88	17.50
		1	24	15.95	16.06	16.16	17.50
		12	0	15.91	16.13	16.02	17.50
		12	6	15.84	16.14	15.97	17.50
5MHz	64QAM	12	13	16.01	16.04	16.04	17.50
		25	0	15.81	15.99	16.00	17.50
		1	0	16.01	16.07	15.93	17.50
		1	13	16.13	15.89	16.14	17.50
		1	24	16.02	15.97	15.98	17.50
		12	0	16.00	15.99	15.93	17.50
5MHz	256QAM	12	6	15.94	15.88	16.12	17.50
		12	13	16.11	16.01	16.03	17.50
		25	0	15.89	15.97	15.88	17.50
		1	0	15.80	15.90	15.97	17.50
		1	13	15.87	16.05	16.05	17.50
		1	24	15.87	16.05	16.05	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	



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		1	24	15.94	16.02	15.96	17.50
		12	0	15.94	16.05	15.93	17.50
		12	6	15.88	15.99	15.93	17.50
		12	13	15.90	15.91	15.82	17.50
		25	0	15.85	16.06	15.79	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	QPSK	1	0	15.95	16.18	16.15	17.50
		1	25	15.95	15.94	15.98	17.50
		1	49	15.83	16.04	15.94	17.50
		25	0	16.10	16.10	15.99	17.50
		25	13	15.99	16.06	15.95	17.50
		25	25	15.99	16.05	15.94	17.50
		50	0	15.97	16.10	16.08	17.50
	16QAM	1	0	15.91	16.02	15.98	17.50
		1	25	16.04	16.16	15.89	17.50
		1	49	15.90	15.93	16.21	17.50
		25	0	16.03	16.12	16.03	17.50
		25	13	15.88	16.06	16.05	17.50
		25	25	16.07	16.05	16.12	17.50
		50	0	15.92	15.95	16.02	17.50
	64QAM	1	0	16.06	16.04	15.97	17.50
		1	25	16.11	15.94	16.11	17.50
		1	49	16.08	15.97	16.05	17.50
		25	0	16.07	16.09	15.97	17.50
		25	13	15.99	15.97	16.17	17.50
		25	25	16.06	16.01	16.09	17.50
		50	0	15.86	15.96	15.91	17.50
	256QAM	1	0	15.90	15.89	16.01	17.50
		1	25	15.90	16.09	16.11	17.50
		1	49	15.92	16.00	15.87	17.50
		25	0	15.95	15.99	15.87	17.50
		25	13	15.98	15.95	15.96	17.50
		25	25	15.98	15.88	15.77	17.50
		50	0	15.92	15.98	15.76	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
15MHz	QPSK	1	0	15.93	16.18	16.07	17.50
		1	38	16.03	16.06	16.10	17.50
		1	74	15.85	15.96	15.91	17.50
		36	0	16.00	16.10	15.99	17.50
		36	18	15.97	16.04	16.07	17.50
		36	39	15.89	16.14	15.84	17.50
		75	0	16.01	16.16	16.11	17.50
	16QAM	1	0	15.91	16.09	16.07	17.50
		1	38	16.05	16.05	15.88	17.50
		1	74	15.98	15.96	16.14	17.50
		36	0	15.94	16.08	16.08	17.50
		36	18	15.86	16.03	16.03	17.50
		36	39	16.04	16.07	16.03	17.50
		75	0	15.81	15.95	15.97	17.50
	64QAM	1	0	16.09	16.03	15.96	17.50
		1	38	16.04	15.97	16.13	17.50
		1	74	16.10	15.91	15.95	17.50
		36	0	16.02	16.10	15.88	17.50



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		36	18	15.94	15.88	16.19	17.50
		36	39	16.01	15.92	16.09	17.50
		75	0	15.92	15.94	15.97	17.50
	256QAM	1	0	15.92	16.01	16.08	17.50
		1	38	15.79	16.00	16.12	17.50
		1	74	15.90	16.03	15.88	17.50
		36	0	15.89	15.97	15.90	17.50
		36	18	15.88	15.89	16.03	17.50
		36	39	15.92	15.85	15.88	17.50
		75	0	15.79	16.09	15.83	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18700	18900	19100	
20MHz	QPSK	1	0	15.98	16.25	16.09	17.50
		1	50	15.90	15.95	16.00	17.50
		1	99	15.91	15.96	15.83	17.50
		50	0	16.05	16.15	15.97	17.50
		50	25	15.96	16.08	16.04	17.50
		50	50	16.02	16.13	15.88	17.50
		100	0	15.94	16.04	16.09	17.50
	16QAM	1	0	15.87	16.03	16.10	17.50
		1	50	16.06	16.08	15.94	17.50
		1	99	16.00	16.02	16.20	17.50
		50	0	15.93	16.00	16.10	17.50
		50	25	15.96	16.00	16.08	17.50
		50	50	16.01	16.13	16.08	17.50
		100	0	15.90	15.94	16.00	17.50
	64QAM	1	0	16.07	15.93	16.01	17.50
		1	50	16.02	16.03	16.10	17.50
		1	99	15.98	15.92	16.06	17.50
		50	0	16.05	15.98	15.93	17.50
		50	25	16.00	15.88	16.19	17.50
		50	50	16.05	15.94	16.14	17.50
		100	0	15.86	15.98	15.93	17.50
	256QAM	1	0	15.91	16.00	15.97	17.50
		1	50	15.88	15.99	16.10	17.50
		1	99	16.00	15.98	15.93	17.50
		50	0	15.91	16.02	15.86	17.50
		50	25	15.97	15.88	16.01	17.50
		50	50	15.93	15.93	15.88	17.50
		100	0	15.84	16.10	15.84	17.50

LTE Band 7 Ant 0 Sensor On SA				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	16.15	16.31	16.26	17.50
		1	13	15.96	16.04	16.06	17.50
		1	24	16.02	16.10	15.94	17.50
		12	0	16.15	16.27	16.17	17.50
		12	6	16.05	16.25	16.21	17.50
		12	13	16.19	16.27	15.93	17.50
	25	0	16.00	16.24	16.29	17.50	
	16QAM	1	0	15.96	16.17	16.19	17.50



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		1	13	16.18	16.14	16.01	17.50
		1	24	16.09	16.13	16.29	17.50
		12	0	16.05	16.17	16.23	17.50
		12	6	16.14	16.07	16.14	17.50
		12	13	16.16	16.33	16.22	17.50
		25	0	16.08	16.01	16.05	17.50
	64QAM	1	0	16.17	16.13	16.07	17.50
		1	13	16.07	16.16	16.20	17.50
		1	24	16.05	16.06	16.25	17.50
		12	0	16.18	16.07	16.02	17.50
		12	6	16.11	16.06	16.28	17.50
		12	13	16.23	16.05	16.27	17.50
		25	0	15.95	16.14	16.00	17.50
	256QAM	1	0	15.97	16.14	16.12	17.50
		1	13	15.99	16.15	16.24	17.50
		1	24	16.10	16.04	16.05	17.50
		12	0	16.07	16.21	16.00	17.50
		12	6	16.05	16.01	16.08	17.50
		12	13	16.05	16.06	16.08	17.50
		25	0	15.90	16.17	16.01	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	
10MHz	QPSK	1	0	16.08	16.33	16.17	17.50
		1	25	15.96	16.02	16.20	17.50
		1	49	16.01	16.11	15.91	17.50
		25	0	16.21	16.27	16.17	17.50
		25	13	16.13	16.25	16.13	17.50
		25	25	16.15	16.26	16.04	17.50
		50	0	16.00	16.21	16.21	17.50
	16QAM	1	0	15.99	16.15	16.18	17.50
		1	25	16.22	16.18	16.12	17.50
		1	49	16.18	16.20	16.30	17.50
		25	0	16.05	16.06	16.17	17.50
		25	13	16.06	16.13	16.21	17.50
		25	25	16.08	16.27	16.27	17.50
		50	0	15.99	16.09	16.18	17.50
	64QAM	1	0	16.19	16.07	16.18	17.50
		1	25	16.19	16.22	16.20	17.50
		1	49	16.04	16.00	16.20	17.50
		25	0	16.24	16.17	16.10	17.50
		25	13	16.13	16.01	16.27	17.50
		25	25	16.17	16.07	16.22	17.50
		50	0	15.92	16.06	15.99	17.50
	256QAM	1	0	16.06	16.12	16.09	17.50
		1	25	15.99	16.05	16.29	17.50
		1	49	16.14	16.07	16.03	17.50
		25	0	15.98	16.10	16.04	17.50
		25	13	16.12	15.98	16.08	17.50
		25	25	16.09	16.08	16.02	17.50
		50	0	15.90	16.20	15.92	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	16.05	16.31	16.26	17.50



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		1	38	16.00	16.04	16.08	17.50
		1	74	16.05	16.08	15.91	17.50
		36	0	16.17	16.26	16.16	17.50
		36	18	16.13	16.14	16.22	17.50
		36	39	16.10	16.25	15.93	17.50
		75	0	16.05	16.16	16.16	17.50
	16QAM	1	0	16.07	16.21	16.17	17.50
		1	38	16.15	16.24	16.04	17.50
		1	74	16.17	16.11	16.38	17.50
		36	0	16.09	16.17	16.16	17.50
		36	18	16.13	16.12	16.24	17.50
		36	39	16.19	16.30	16.22	17.50
		75	0	16.03	16.00	16.10	17.50
	64QAM	1	0	16.26	16.06	16.07	17.50
		1	38	16.15	16.11	16.17	17.50
		1	74	16.08	15.98	16.18	17.50
		36	0	16.13	16.11	15.98	17.50
		36	18	16.17	15.96	16.28	17.50
		36	39	16.11	16.05	16.21	17.50
		75	0	15.99	16.10	15.98	17.50
	256QAM	1	0	15.98	16.17	16.02	17.50
		1	38	16.02	16.13	16.22	17.50
		1	74	16.20	16.07	16.01	17.50
		36	0	15.99	16.10	16.00	17.50
		36	18	16.14	16.01	16.18	17.50
		36	39	16.10	16.06	16.05	17.50
		75	0	15.89	16.27	16.02	17.50
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350	Tune up
20MHz	QPSK	1	0	16.13	16.42	16.23	17.50
		1	50	16.09	16.11	16.08	17.50
		1	99	16.10	16.09	15.92	17.50
		50	0	16.23	16.31	16.04	17.50
		50	25	16.15	16.13	16.16	17.50
		50	50	16.16	16.27	16.00	17.50
		100	0	16.08	16.12	16.25	17.50
	16QAM	1	0	16.04	16.11	16.18	17.50
		1	50	16.20	16.21	16.06	17.50
		1	99	16.06	16.10	16.32	17.50
		50	0	16.07	16.10	16.17	17.50
		50	25	16.13	16.18	16.23	17.50
		50	50	16.19	16.32	16.25	17.50
		100	0	15.99	16.10	16.16	17.50
	64QAM	1	0	16.12	16.10	16.09	17.50
		1	50	16.09	16.21	16.16	17.50
		1	99	16.05	16.09	16.26	17.50
		50	0	16.16	16.07	16.01	17.50
		50	25	16.06	16.00	16.34	17.50
		50	50	16.16	16.13	16.29	17.50
		100	0	15.92	16.08	15.99	17.50
	256QAM	1	0	16.06	16.07	16.09	17.50
		1	50	15.94	16.05	16.23	17.50
		1	99	16.11	16.16	16.00	17.50
		50	0	16.00	16.10	16.00	17.50
		50	25	16.11	16.04	16.10	17.50



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	50	50	16.12	16.02	16.02	17.50
	100	0	16.03	16.24	15.92	17.50

LTE Band 2 Ant 1 Sensor On SA				Conducted Power(dBm)			
Bandwidth	Modulation		RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	20.26	20.38	20.41	22.00
		1	2	20.27	20.25	20.33	22.00
		1	5	20.23	20.35	20.21	22.00
		3	0	20.17	20.22	20.38	22.00
		3	2	20.32	20.22	20.25	22.00
		3	3	20.18	20.35	20.29	22.00
		6	0	20.25	20.25	20.39	22.00
	16QAM	1	0	20.19	20.22	20.30	22.00
		1	2	20.26	20.34	20.23	22.00
		1	5	20.19	20.25	20.31	22.00
		3	0	20.28	20.28	20.30	22.00
		3	2	20.32	20.34	20.23	22.00
		3	3	20.32	20.27	20.31	22.00
		6	0	20.18	20.25	20.34	22.00
	64QAM	1	0	20.30	20.35	20.24	22.00
		1	2	20.22	20.30	20.31	22.00
		1	5	20.21	20.27	20.35	22.00
		3	0	20.26	20.37	20.20	22.00
		3	2	20.24	20.34	20.28	22.00
		3	3	20.23	20.25	20.28	22.00
		6	0	20.65	20.44	20.65	22.00
	256QAM	1	0	19.52	19.69	19.74	21.00
		1	2	19.58	19.60	19.61	21.00
		1	5	19.25	19.36	19.41	21.00
		3	0	19.40	19.34	19.51	21.00
		3	2	19.43	19.34	19.34	21.00
		3	3	19.44	19.56	19.25	21.00
		6	0	18.53	18.51	18.46	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18615	18900	19185	
3MHz	QPSK	1	0	20.50	20.57	20.58	22.00
		1	7	20.36	20.42	20.57	22.00
		1	14	20.37	20.55	20.42	22.00
		8	0	20.48	20.50	20.63	22.00
		8	4	20.43	20.43	20.43	22.00
		8	7	20.44	20.56	20.38	22.00
		15	0	20.52	20.57	20.66	22.00
	16QAM	1	0	20.41	20.43	20.45	22.00
		1	7	20.40	20.44	20.44	22.00
		1	14	20.51	20.42	20.56	22.00
		8	0	20.48	20.41	20.51	22.00
		8	4	20.46	20.57	20.51	22.00
		8	7	20.45	20.50	20.46	22.00
		15	0	20.38	20.39	20.48	22.00
	64QAM	1	0	20.44	20.52	20.55	22.00



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		1	7	20.52	20.54	20.53	22.00
		1	14	20.40	20.40	20.48	22.00
		8	0	20.44	20.52	20.45	22.00
		8	4	20.49	20.44	20.51	22.00
		8	7	20.50	20.50	20.47	22.00
		15	0	21.47	21.60	21.40	22.00
	256QAM	1	0	19.40	19.44	19.35	21.00
		1	7	19.54	19.71	19.78	21.00
		1	14	19.59	19.63	19.62	21.00
		8	0	19.23	19.35	19.45	20.00
		8	4	18.53	18.60	18.40	20.00
		8	7	18.58	18.56	18.46	20.00
		15	0	18.52	18.51	18.35	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	20.52	20.45	20.57	22.00
		1	13	20.39	20.40	20.54	22.00
		1	24	20.47	20.47	20.38	22.00
		12	0	20.50	20.43	20.60	22.00
		12	6	20.50	20.39	20.49	22.00
		12	13	20.36	20.55	20.49	22.00
		25	0	20.46	20.51	20.60	22.00
	16QAM	1	0	20.34	20.41	20.55	22.00
		1	13	20.38	20.54	20.54	22.00
		1	24	20.50	20.48	20.64	22.00
		12	0	20.38	20.40	20.44	22.00
		12	6	20.48	20.45	20.40	22.00
		12	13	20.59	20.54	20.52	22.00
	64QAM	25	0	20.48	20.49	20.40	22.00
		1	0	20.43	20.48	20.57	22.00
		1	13	20.52	20.44	20.60	22.00
		1	24	20.42	20.41	20.46	22.00
		12	0	20.38	20.59	20.49	22.00
		12	6	20.47	20.51	20.59	22.00
	256QAM	12	13	20.44	20.49	20.49	22.00
		25	0	21.56	21.50	21.46	22.00
		1	0	19.42	19.47	19.35	21.00
		1	13	19.55	19.73	19.73	21.00
		1	24	19.58	19.61	19.61	21.00
		12	0	19.22	19.32	19.45	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	QPSK	1	0	20.51	20.56	20.62	22.00
		1	25	20.35	20.47	20.49	22.00
		1	49	20.36	20.46	20.43	22.00
		25	0	20.38	20.47	20.51	22.00
		25	13	20.48	20.46	20.43	22.00
		25	25	20.43	20.51	20.45	22.00
		50	0	20.44	20.47	20.60	22.00
	16QAM	1	0	20.43	20.38	20.50	22.00
		1	25	20.47	20.51	20.43	22.00



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		1	49	20.44	20.41	20.57	22.00
		25	0	20.48	20.47	20.43	22.00
		25	13	20.48	20.56	20.48	22.00
		25	25	20.52	20.49	20.57	22.00
		50	0	20.40	20.52	20.51	22.00
		1	0	20.45	20.54	20.49	22.00
		1	25	20.53	20.55	20.50	22.00
		1	49	20.46	20.51	20.52	22.00
		25	0	20.45	20.54	20.40	22.00
		25	13	20.43	20.47	20.56	22.00
	64QAM	25	25	20.47	20.41	20.51	22.00
		50	0	21.57	21.55	21.42	22.00
		1	0	19.42	19.45	19.34	21.00
		1	25	19.54	19.69	19.77	21.00
		1	49	19.63	19.60	19.58	21.00
		25	0	19.24	19.37	19.46	20.00
		25	13	18.52	18.66	18.56	20.00
		25	25	18.45	18.53	18.34	20.00
		50	0	18.48	18.45	18.41	20.00
		1	0	19.42	19.45	19.34	21.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
15MHz	QPSK	1	0	20.51	20.47	20.52	22.00
		1	38	20.48	20.40	20.58	22.00
		1	74	20.40	20.59	20.39	22.00
		36	0	20.52	20.49	20.53	22.00
		36	18	20.38	20.46	20.51	22.00
		36	39	20.38	20.51	20.48	22.00
		75	0	20.46	20.58	20.56	22.00
	16QAM	1	0	20.40	20.51	20.52	22.00
		1	38	20.34	20.57	20.46	22.00
		1	74	20.38	20.51	20.63	22.00
		36	0	20.38	20.51	20.51	22.00
		36	18	20.47	20.53	20.51	22.00
		36	39	20.56	20.56	20.52	22.00
		75	0	20.49	20.39	20.45	22.00
	64QAM	1	0	20.47	20.53	20.42	22.00
		1	38	20.48	20.57	20.50	22.00
		1	74	20.48	20.44	20.49	22.00
		36	0	20.43	20.50	20.43	22.00
		36	18	20.44	20.48	20.62	22.00
		36	39	20.46	20.36	20.47	22.00
		75	0	21.47	21.45	21.44	22.00
	256QAM	1	0	19.39	19.43	19.34	21.00
		1	38	19.52	19.72	19.78	21.00
		1	74	19.60	19.61	19.57	21.00
		36	0	19.25	19.36	19.46	20.00
		36	18	18.43	18.53	18.48	20.00
		36	39	18.53	18.62	18.37	20.00
		75	0	18.55	18.44	18.33	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18700	18900	19100	
20MHz	QPSK	1	0	20.44	20.86	20.55	22.00
		1	50	20.38	20.38	20.45	22.00
		1	99	20.46	20.50	20.34	22.00
		50	0	20.48	20.62	20.57	22.00



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		50	25	20.50	20.42	20.47	22.00
		50	50	20.39	20.53	20.40	22.00
		100	0	20.46	20.60	20.59	22.00
	16QAM	1	0	20.46	20.44	20.45	22.00
		1	50	20.38	20.44	20.48	22.00
		1	99	20.39	20.43	20.65	22.00
		50	0	20.40	20.53	20.44	22.00
		50	25	20.53	20.45	20.41	22.00
		50	50	20.56	20.56	20.47	22.00
		100	0	20.44	20.41	20.42	22.00
	64QAM	1	0	20.47	20.57	20.43	22.00
		1	50	20.54	20.48	20.52	22.00
		1	99	20.50	20.45	20.48	22.00
		50	0	20.39	20.54	20.45	22.00
		50	25	20.38	20.48	20.56	22.00
		50	50	20.42	20.41	20.47	22.00
		100	0	21.41	21.62	21.44	22.00
	256QAM	1	0	19.41	19.45	19.36	21.00
		1	50	19.52	19.69	19.75	21.00
		1	99	19.61	19.62	19.62	21.00
		50	0	19.24	19.32	19.45	20.00
		50	25	18.53	18.69	18.50	20.00
		50	50	18.48	18.62	18.36	20.00
		100	0	18.57	18.46	18.41	20.00

LTE Band 4 Ant 1 Sensor On SA				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	20.54	20.55	20.58	22.00
		1	2	20.44	20.36	20.53	22.00
		1	5	20.36	20.50	20.44	22.00
		3	0	20.40	20.42	20.56	22.00
		3	2	20.41	20.37	20.52	22.00
		3	3	20.36	20.53	20.36	22.00
		6	0	20.44	20.56	20.67	22.00
	16QAM	1	0	20.47	20.44	20.54	22.00
		1	2	20.36	20.49	20.52	22.00
		1	5	20.51	20.44	20.52	22.00
		3	0	20.41	20.48	20.48	22.00
		3	2	20.49	20.56	20.46	22.00
		3	3	20.59	20.51	20.49	22.00
		6	0	20.43	20.53	20.46	22.00
	64QAM	1	0	20.41	20.56	20.55	22.00
		1	2	20.52	20.52	20.46	22.00
		1	5	20.50	20.46	20.53	22.00
		3	0	20.44	20.58	20.46	22.00
		3	2	20.37	20.50	20.48	22.00
		3	3	20.42	20.44	20.44	22.00
		6	0	20.65	20.55	20.65	22.00
	256QAM	1	0	19.41	19.42	19.33	21.00
		1	2	19.54	19.74	19.73	21.00
		1	5	19.63	19.59	19.62	21.00



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		3	0	19.22	19.35	19.41	21.00
		3	2	19.40	19.32	19.55	21.00
		3	3	19.41	19.35	19.32	21.00
		6	0	18.51	18.62	18.39	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19965	20175	20385	
3MHz	QPSK	1	0	20.68	20.67	20.66	22.00
		1	7	20.49	20.58	20.56	22.00
		1	14	20.42	20.55	20.49	22.00
		8	0	20.48	20.64	20.60	22.00
		8	4	20.50	20.46	20.53	22.00
		8	7	20.48	20.70	20.57	22.00
		15	0	20.52	20.57	20.66	22.00
		1	0	20.55	20.56	20.62	22.00
	16QAM	1	7	20.48	20.58	20.64	22.00
		1	14	20.55	20.55	20.65	22.00
		8	0	20.49	20.60	20.56	22.00
		8	4	20.58	20.68	20.63	22.00
		8	7	20.65	20.54	20.59	22.00
		15	0	20.48	20.60	20.56	22.00
		1	0	20.58	20.54	20.64	22.00
		1	7	20.65	20.63	20.63	22.00
	64QAM	1	14	20.53	20.55	20.65	22.00
		8	0	20.53	20.62	20.62	22.00
		8	4	20.48	20.52	20.69	22.00
		8	7	20.65	20.55	20.51	22.00
		15	0	20.57	20.73	20.45	22.00
		1	0	19.38	19.45	19.34	21.00
		1	7	19.54	19.74	19.75	21.00
		1	14	19.62	19.63	19.58	21.00
	256QAM	8	0	19.22	19.35	19.41	21.00
		8	4	18.66	18.76	18.73	21.00
		8	7	18.52	18.68	18.53	21.00
		15	0	18.61	18.53	18.52	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19975	20175	20375	
5MHz	QPSK	1	0	20.58	20.67	20.62	22.00
		1	13	20.52	20.49	20.63	22.00
		1	24	20.56	20.68	20.45	22.00
		12	0	20.62	20.53	20.59	22.00
		12	6	20.53	20.45	20.57	22.00
		12	13	20.46	20.68	20.47	22.00
		25	0	20.56	20.68	20.63	22.00
		1	0	20.54	20.51	20.67	22.00
	16QAM	1	13	20.49	20.64	20.60	22.00
		1	24	20.49	20.58	20.69	22.00
		12	0	20.53	20.63	20.59	22.00
		12	6	20.49	20.60	20.54	22.00
		12	13	20.64	20.57	20.67	22.00
		25	0	20.57	20.63	20.64	22.00
		1	0	20.59	20.59	20.56	22.00
		1	13	20.59	20.52	20.64	22.00
	64QAM	1	24	20.49	20.53	20.58	22.00



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		12	0	20.49	20.69	20.60	22.00
		12	6	20.53	20.57	20.62	22.00
		12	13	20.57	20.60	20.62	22.00
		25	0	20.57	20.74	20.44	22.00
	256QAM	1	0	19.39	19.42	19.35	21.00
		1	13	19.56	19.71	19.76	21.00
		1	24	19.62	19.63	19.61	21.00
		12	0	19.22	19.32	19.43	21.00
		12	6	18.62	18.59	18.64	21.00
		12	13	18.61	18.64	18.57	21.00
		25	0	18.53	18.56	18.55	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20000	20175	20350	
10MHz	QPSK	1	0	20.67	20.58	20.60	22.00
		1	25	20.55	20.53	20.62	22.00
		1	49	20.47	20.63	20.49	22.00
		25	0	20.50	20.65	20.62	22.00
		25	13	20.61	20.46	20.54	22.00
		25	25	20.46	20.61	20.57	22.00
		50	0	20.57	20.56	20.72	22.00
	16QAM	1	0	20.58	20.58	20.62	22.00
		1	25	20.57	20.63	20.51	22.00
		1	49	20.52	20.55	20.73	22.00
		25	0	20.55	20.61	20.65	22.00
		25	13	20.50	20.65	20.55	22.00
		25	25	20.59	20.58	20.62	22.00
		50	0	20.58	20.51	20.57	22.00
	64QAM	1	0	20.60	20.60	20.56	22.00
		1	25	20.56	20.53	20.56	22.00
		1	49	20.49	20.51	20.68	22.00
		25	0	20.58	20.68	20.62	22.00
		25	13	20.56	20.57	20.71	22.00
		25	25	20.64	20.49	20.59	22.00
		50	0	20.54	20.73	20.47	22.00
	256QAM	1	0	19.42	19.46	19.36	21.00
		1	25	19.57	19.73	19.77	21.00
		1	49	19.63	19.61	19.58	21.00
		25	0	19.22	19.37	19.41	21.00
		25	13	18.53	18.74	18.69	21.00
		25	25	18.53	18.63	18.50	21.00
		50	0	18.58	18.68	18.57	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20025	20175	20325	
15MHz	QPSK	1	0	20.55	20.62	20.67	22.00
		1	38	20.59	20.55	20.60	22.00
		1	74	20.51	20.62	20.55	22.00
		36	0	20.55	20.56	20.63	22.00
		36	18	20.58	20.59	20.63	22.00
		36	39	20.49	20.62	20.51	22.00
		75	0	20.57	20.59	20.74	22.00
	16QAM	1	0	20.46	20.51	20.58	22.00
		1	38	20.46	20.56	20.52	22.00
		1	74	20.58	20.61	20.68	22.00
		36	0	20.63	20.56	20.57	22.00
		36	18	20.51	20.61	20.58	22.00



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	64QAM	36	39	20.61	20.62	20.56	22.00
		75	0	20.44	20.58	20.53	22.00
		1	0	20.47	20.65	20.64	22.00
		1	38	20.54	20.56	20.67	22.00
		1	74	20.61	20.58	20.60	22.00
		36	0	20.55	20.66	20.63	22.00
		36	18	20.58	20.55	20.64	22.00
		36	39	20.52	20.58	20.58	22.00
		75	0	20.56	20.70	20.42	22.00
	256QAM	1	0	19.41	19.44	19.35	21.00
		1	38	19.57	19.73	19.74	21.00
		1	74	19.59	19.61	19.62	21.00
		36	0	19.24	19.34	19.44	21.00
		36	18	18.64	18.60	18.77	21.00
		36	39	18.54	18.71	18.52	21.00
		75	0	18.54	18.60	18.41	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	QPSK	1	0	20.60	20.89	20.57	22.00
		1	50	20.57	20.51	20.65	22.00
		1	99	20.51	20.69	20.55	22.00
		50	0	20.47	20.75	20.70	22.00
		50	25	20.51	20.53	20.65	22.00
		50	50	20.45	20.61	20.48	22.00
		100	0	20.57	20.63	20.62	22.00
	16QAM	1	0	20.57	20.53	20.67	22.00
		1	50	20.45	20.69	20.64	22.00
		1	99	20.48	20.61	20.70	22.00
		50	0	20.48	20.62	20.61	22.00
		50	25	20.57	20.62	20.52	22.00
		50	50	20.69	20.68	20.68	22.00
		100	0	20.53	20.59	20.63	22.00
	64QAM	1	0	20.46	20.54	20.61	22.00
		1	50	20.57	20.53	20.70	22.00
		1	99	20.59	20.63	20.68	22.00
		50	0	20.62	20.66	20.62	22.00
		50	25	20.59	20.60	20.70	22.00
		50	50	20.59	20.55	20.64	22.00
		100	0	20.56	20.73	20.44	22.00
	256QAM	1	0	19.38	19.45	19.35	21.00
		1	50	19.52	19.72	19.74	21.00
		1	99	19.60	19.63	19.57	21.00
		50	0	19.20	19.35	19.42	21.00
		50	25	18.78	18.85	18.71	21.00
		50	50	18.69	18.75	18.67	21.00
		100	0	18.66	18.73	18.52	20.00

LTE Band 7 Ant 1 Sensor On SA				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
5MHz	QPSK	1	0	20775	21100	21425	18.50
		1	13	17.11	16.98	17.14	18.50



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		1	24	17.09	17.17	17.08	18.50
		12	0	17.08	17.24	17.13	18.50
		12	6	17.07	16.99	17.18	18.50
		12	13	16.94	17.14	17.01	18.50
		25	0	17.11	17.08	17.02	18.50
	16QAM	1	0	17.06	17.14	17.17	18.50
		1	13	17.00	17.23	17.13	18.50
		1	24	17.09	17.06	17.30	18.50
		12	0	17.05	17.15	17.21	18.50
		12	6	17.09	17.16	17.11	18.50
	64QAM	12	13	17.19	17.09	17.16	18.50
		25	0	17.05	17.03	17.13	18.50
		1	0	17.06	17.13	17.20	18.50
		1	13	17.18	17.09	17.14	18.50
		1	24	17.16	17.12	17.03	18.50
	256QAM	12	0	17.06	17.15	17.08	18.50
		12	6	17.13	17.06	17.21	18.50
		12	13	17.10	16.99	17.22	18.50
		25	0	17.12	17.09	17.24	18.50
		1	0	17.08	17.02	17.06	18.50
10MHz	QPSK	1	13	17.05	16.99	17.04	18.50
		1	24	17.00	17.09	17.05	18.50
		12	0	16.78	16.69	16.42	18.50
		12	6	16.85	16.66	16.50	18.50
		12	13	16.79	16.73	16.70	18.50
	16QAM	25	0	16.96	16.64	16.48	18.50
		1	0	17.19	17.31	17.17	18.50
		1	25	17.04	16.96	17.13	18.50
		1	49	16.99	17.14	17.03	18.50
		25	0	16.98	17.21	17.12	18.50
	64QAM	25	13	17.10	17.06	17.13	18.50
		25	25	17.04	17.18	16.99	18.50
		50	0	17.13	17.12	17.05	18.50
		1	0	17.06	17.15	17.07	18.50
		1	25	17.03	17.23	17.02	18.50
	256QAM	1	49	17.05	17.03	17.30	18.50
		25	0	17.00	17.10	17.19	18.50
		25	13	17.13	17.13	17.11	18.50
		25	25	17.08	17.16	17.02	18.50
		50	0	17.07	17.10	17.16	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20800	21100	21400	
	QPSK	1	0	17.19	17.31	17.17	18.50
		1	25	17.04	16.96	17.13	18.50
		1	49	16.99	17.14	17.03	18.50
		25	0	16.98	17.21	17.12	18.50
		25	13	17.10	17.06	17.13	18.50
	16QAM	25	25	17.04	17.18	16.99	18.50
		50	0	17.13	17.12	17.05	18.50
		1	0	17.06	17.15	17.07	18.50
		1	25	17.03	17.23	17.02	18.50
		1	49	17.05	17.03	17.30	18.50
	64QAM	25	0	17.00	17.10	17.19	18.50
		25	13	17.13	17.13	17.11	18.50
		25	25	17.08	17.16	17.02	18.50
		50	0	17.07	17.10	17.16	18.50
		1	0	17.11	17.26	17.12	18.50
	256QAM	1	25	17.15	17.14	17.04	18.50
		1	49	17.10	17.13	17.05	18.50
		25	0	17.09	17.27	17.06	18.50
		25	13	17.18	17.15	17.25	18.50
		25	25	17.08	17.03	17.13	18.50
		50	0	17.00	17.11	17.16	18.50
		1	0	17.14	17.07	17.10	18.50
		1	25	16.99	17.07	17.16	18.50
		1	49	17.04	17.10	17.03	18.50
		25	0	16.83	16.68	16.52	18.50
		25	13	16.85	16.54	16.53	18.50



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		25	25	16.81	16.77	16.61	18.50
		50	0	16.92	16.60	16.50	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	17.21	17.26	17.14	18.50
		1	38	17.13	17.07	17.23	18.50
		1	74	17.05	17.22	16.98	18.50
		36	0	17.07	17.31	17.10	18.50
		36	18	17.10	16.99	17.07	18.50
		36	39	16.98	17.13	16.98	18.50
		75	0	17.15	17.13	17.07	18.50
	16QAM	1	0	17.02	17.20	17.20	18.50
		1	38	17.00	17.16	17.13	18.50
		1	74	17.08	17.07	17.24	18.50
		36	0	17.03	17.09	17.18	18.50
		36	18	17.03	17.13	17.02	18.50
		36	39	17.10	17.11	17.09	18.50
		75	0	17.03	17.00	17.21	18.50
	64QAM	1	0	17.08	17.20	17.05	18.50
		1	38	17.15	17.15	17.04	18.50
		1	74	17.21	17.18	17.03	18.50
		36	0	17.00	17.23	17.15	18.50
		36	18	17.17	17.11	17.30	18.50
		36	39	17.11	17.00	17.14	18.50
		75	0	17.07	17.07	17.19	18.50
	256QAM	1	0	17.13	17.08	17.14	18.50
		1	38	17.08	17.06	17.09	18.50
		1	74	17.05	17.09	17.12	18.50
		36	0	16.80	16.72	16.47	18.50
		36	18	16.90	16.56	16.49	18.50
		36	39	16.86	16.78	16.68	18.50
		75	0	16.94	16.57	16.54	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	0	17.41	17.56	17.34	18.50
		1	50	17.24	17.05	17.24	18.50
		1	99	17.06	17.12	17.02	18.50
		50	0	16.99	17.34	17.17	18.50
		50	25	17.03	17.05	17.05	18.50
		50	50	17.04	17.16	16.96	18.50
		100	0	17.12	17.14	17.06	18.50
	16QAM	1	0	16.96	17.18	17.11	18.50
		1	50	17.05	17.16	17.09	18.50
		1	99	16.97	17.07	17.19	18.50
		50	0	16.98	17.13	17.20	18.50
		50	25	17.12	17.09	17.05	18.50
		50	50	17.06	17.12	17.04	18.50
		100	0	17.17	16.98	17.17	18.50
	64QAM	1	0	17.07	17.22	17.18	18.50
		1	50	17.16	17.07	17.18	18.50
		1	99	17.10	17.08	17.16	18.50
		50	0	16.97	17.21	17.08	18.50
		50	25	17.07	17.12	17.24	18.50
		50	50	17.18	17.05	17.17	18.50



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		100	0	17.01	17.10	17.14	18.50
	256QAM	1	0	17.13	17.14	17.13	18.50
		1	50	17.02	16.99	17.10	18.50
		1	99	17.07	17.08	17.05	18.50
		50	0	16.85	16.78	16.39	18.50
		50	25	16.93	16.60	16.50	18.50
		50	50	16.84	16.69	16.72	18.50
		100	0	16.87	16.63	16.42	18.50

LTE Band 41 Ant 1 Sensor On SA				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39675	40148	40620	41093	41565	
5MHz	QPSK	1	0	20.96	21.08	21.25	21.2	21.03	22.00
		1	13	21.1	21.12	21.08	20.96	21.04	22.00
		1	24	21.04	20.87	21.09	21.14	21.07	22.00
		12	0	20.98	20.89	20.96	20.94	20.85	22.00
		12	6	21.08	21.15	20.96	20.91	21.08	22.00
		12	13	21	21	21.21	21.12	21.04	22.00
		25	0	20.91	21.13	21.01	20.96	20.9	22.00
	16QAM	1	0	20.92	21.02	20.97	21.01	20.95	22.00
		1	13	21	21.02	21.16	21.19	21.04	22.00
		1	24	20.95	20.84	20.9	21	20.88	22.00
		12	0	21.15	20.94	21	21.06	21.13	22.00
		12	6	21.04	21.1	21.08	21.11	21.03	22.00
		12	13	21.06	21.16	21.11	21.14	21.01	22.00
		25	0	20.93	20.8	20.92	20.97	21.07	22.00
	64QAM	1	0	21.15	21.11	20.98	21.01	21.06	22.00
		1	13	20.91	20.94	21.11	21.10	20.93	22.00
		1	24	20.83	20.97	21.13	21.01	21.07	22.00
		12	0	21.07	20.94	21.09	21.06	21.01	22.00
		12	6	21.04	21.06	20.96	20.91	21.21	22.00
		12	13	20.91	20.94	20.92	20.99	20.92	22.00
		25	0	21.11	21.15	21.08	21.12	21.05	22.00
	256QAM	1	0	19.94	19.92	20.00	20.00	19.97	21.00
		1	13	19.84	19.92	20.16	20.07	19.81	21.00
		1	24	19.88	19.91	20.14	20.14	19.98	21.00
		12	0	18.76	18.84	19.03	19.11	18.75	20.00
		12	6	18.92	18.87	19.11	19.16	18.90	20.00
		12	13	19.00	18.97	19.03	19.05	18.84	20.00
		25	0	18.76	18.73	18.94	18.96	18.58	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39700	40160	40620	41080	41540	
10MHz	QPSK	1	0	21.03	21.01	21.17	21.13	20.97	22.00
		1	25	21.15	21.07	21	20.99	20.94	22.00
		1	49	21.01	20.98	21.21	21.14	21.05	22.00
		25	0	20.91	20.9	20.96	20.91	20.92	22.00
		25	13	21.06	21.04	20.92	20.96	21.07	22.00
		25	25	20.98	21	21.11	21.2	20.95	22.00
		50	0	20.94	21.13	21.08	20.96	21.01	22.00
	16QAM	1	0	20.94	20.94	20.93	20.93	20.96	22.00
		1	25	20.97	21.05	21.16	21.12	20.99	22.00



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		1	49	20.91	20.87	20.87	20.91	20.94	22.00
		25	0	21.11	20.91	21.08	21.04	21.06	22.00
		25	13	20.96	21.16	21.08	20.99	21.04	22.00
		25	25	21.16	21.12	21.15	21.05	21.03	22.00
		50	0	20.99	20.84	20.94	21.02	21.05	22.00
	64QAM	1	0	21.04	21.02	21.12	21.10	21.15	22.00
		1	25	20.91	20.93	21.14	21.05	20.93	22.00
		1	49	20.89	20.97	21.02	21.09	21.08	22.00
		25	0	21.06	20.95	21.16	21.05	20.91	22.00
		25	13	21.05	21.09	20.93	20.90	21.18	22.00
		25	25	21.04	20.94	20.96	20.99	20.81	22.00
		50	0	21.01	21.04	21.13	21.20	21.15	22.00
	256QAM	1	0	19.97	19.89	19.94	19.93	19.91	21.00
		1	25	19.87	19.93	20.10	20.08	19.90	21.00
		1	49	19.92	19.98	20.17	20.22	19.89	21.00
		25	0	18.84	18.76	19.01	19.06	18.71	20.00
		25	13	19.02	18.89	19.15	19.20	18.83	20.00
		25	25	18.90	18.91	19.07	19.09	18.85	20.00
		50	0	18.68	18.65	18.90	18.95	18.60	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39725	40173	40620	41068	41515	
15MHz	QPSK	1	0	20.97	21.02	21.17	21.18	20.92	22.00
		1	38	21.01	21.03	21.03	21.06	21.04	22.00
		1	74	21.03	20.93	21.15	21.21	20.99	22.00
		36	0	20.95	20.9	20.86	20.96	20.95	22.00
		36	18	21.14	21.13	20.93	20.97	21.06	22.00
		36	39	20.96	20.96	21.21	21.23	21.07	22.00
		75	0	20.9	21.04	20.97	21.06	20.95	22.00
	16QAM	1	0	20.85	20.92	21.02	21.02	20.93	22.00
		1	38	21.03	20.9	21.2	21.14	20.97	22.00
		1	74	20.92	20.87	20.93	21	20.88	22.00
		36	0	21.11	21.03	21	21.02	21.03	22.00
		36	18	21.08	21.15	21	21.04	21.16	22.00
		36	39	21.14	21.08	21.08	21.16	21.13	22.00
		75	0	20.92	20.84	21.02	20.94	20.93	22.00
	64QAM	1	0	21.02	21.15	21.03	21.06	21.06	22.00
		1	38	21.01	21.03	21.05	21.09	20.99	22.00
		1	74	20.90	21.05	21.09	21.12	20.96	22.00
		36	0	20.98	20.97	21.03	21.04	20.89	22.00
		36	18	21.02	21.18	21.01	21.01	21.08	22.00
		36	39	20.93	20.96	20.96	20.94	20.80	22.00
		75	0	21.12	21.15	21.08	21.19	21.09	22.00
	256QAM	1	0	19.93	19.95	19.87	19.99	19.97	21.00
		1	38	19.80	19.88	20.19	20.17	19.87	21.00
		1	74	19.88	20.02	20.28	20.23	19.88	21.00
		36	0	18.82	18.77	19.03	19.08	18.78	20.00
		36	18	19.07	18.87	19.16	19.10	18.91	20.00
		36	39	18.87	18.96	18.98	18.98	18.91	20.00
		75	0	18.80	18.69	18.93	18.85	18.68	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39750	40185	40620	41055	41490	
20MHz	QPSK	1	0	21.19	21.18	21.31	21.19	21.2	22.00
		1	50	21.04	21.11	21.07	20.96	20.92	22.00
		1	99	20.92	20.94	21.16	21.18	21.09	22.00



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		50	0	20.98	20.8	21.23	20.93	20.82	22.00
		50	25	21.07	21.04	20.97	20.96	20.99	22.00
		50	50	20.96	20.96	21.2	21.1	20.96	22.00
		100	0	20.9	21.08	21.14	20.95	20.99	22.00
	16QAM	1	0	20.92	20.95	21.03	21	20.88	22.00
		1	50	21.02	20.98	21.18	21.16	21.01	22.00
		1	99	20.92	20.92	20.98	21	20.89	22.00
		50	0	21.02	21.04	21.07	21.1	21.16	22.00
		50	25	20.98	21.2	21.12	21	21.1	22.00
		50	50	21.06	21.16	21.16	21.04	21.03	22.00
		100	0	20.91	20.91	21	20.96	20.94	22.00
	64QAM	1	0	21.03	21.11	21.02	21.02	21.09	22.00
		1	50	20.94	20.95	21.07	21.14	20.90	22.00
		1	99	20.94	21.07	21.09	21.01	21.06	22.00
		50	0	20.99	21.06	21.04	21.02	20.89	22.00
		50	25	21.04	21.07	21.00	20.93	21.07	22.00
		50	50	20.95	20.93	21.00	20.91	20.80	22.00
		100	0	21.05	21.13	21.18	21.11	21.09	22.00
	256QAM	1	0	19.99	19.88	19.88	19.91	19.93	21.00
		1	50	19.84	19.84	20.16	20.04	19.88	21.00
		1	99	19.87	20.01	20.22	20.22	19.97	21.00
		50	0	18.79	18.87	19.06	19.02	18.84	20.00
		50	25	18.97	18.89	19.12	19.18	18.82	20.00
		50	50	18.87	18.95	19.05	19.09	18.90	20.00
		100	0	18.71	18.68	18.84	18.94	18.62	20.00

LTE Band 5 Ant 0 Sensor On For UL CA&ENDC				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20407	20525	20643	
1.4MHz	QPSK	1	0	21.51	21.57	21.40	23.00
		1	2	21.42	21.50	21.34	23.00
		1	5	21.51	21.40	21.32	23.00
		3	0	21.27	21.57	21.36	23.00
		3	2	21.35	21.39	21.49	23.00
		3	3	21.54	21.40	21.35	23.00
		6	0	21.39	21.45	21.30	23.00
	16QAM	1	0	21.39	21.39	21.33	23.00
		1	2	21.47	21.32	21.45	23.00
		1	5	21.38	21.42	21.26	23.00
		3	0	21.41	21.37	21.39	23.00
		3	2	21.46	21.39	21.38	23.00
		3	3	21.34	21.44	21.41	23.00
		6	0	21.24	21.06	21.28	23.00
	64QAM	1	0	21.10	21.40	21.70	23.00
		1	2	21.72	21.29	21.29	23.00
		1	5	21.11	21.57	21.32	23.00
		3	0	20.90	21.26	21.60	23.00
		3	2	21.72	21.28	21.26	23.00
		3	3	21.12	21.63	21.36	23.00
		6	0	20.21	20.14	20.42	22.00
	256QAM	1	0	19.08	19.45	19.62	21.00
		1	2	19.70	19.36	19.39	21.00



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		1	5	19.18	19.67	19.38	21.00
		3	0	18.98	19.42	19.67	21.00
		3	2	19.74	19.34	19.43	21.00
		3	3	19.14	19.72	19.25	21.00
		6	0	18.27	18.18	18.49	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20415	20525	20635	
3MHz	QPSK	1	0	21.52	21.49	21.32	23.00
		1	7	21.44	21.46	21.34	23.00
		1	14	21.47	21.33	21.40	23.00
		8	0	21.29	21.49	21.31	23.00
		8	4	21.42	21.35	21.39	23.00
		8	7	21.41	21.38	21.24	23.00
		15	0	21.43	21.53	21.44	23.00
	16QAM	1	0	21.36	21.38	21.28	23.00
		1	7	21.44	21.39	21.35	23.00
		1	14	21.35	21.39	21.37	23.00
		8	0	21.43	21.50	21.45	23.00
		8	4	21.51	21.30	21.46	23.00
		8	7	21.33	21.44	21.38	23.00
		15	0	21.16	21.15	21.13	23.00
	64QAM	1	0	21.08	21.47	21.65	23.00
		1	7	21.77	21.33	21.28	23.00
		1	14	21.25	21.54	21.34	23.00
		8	0	20.10	20.21	20.22	22.00
		8	4	20.25	20.15	20.12	22.00
		8	7	20.26	20.26	20.37	22.00
		15	0	20.18	20.14	20.36	22.00
	256QAM	1	0	18.99	19.46	19.67	21.00
		1	7	19.71	19.32	19.36	21.00
		1	14	19.12	19.65	19.36	21.00
		8	0	18.19	18.24	18.28	20.00
		8	4	18.33	18.17	18.25	20.00
		8	7	18.26	18.40	18.32	20.00
		15	0	18.18	18.13	18.40	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20425	20525	20625	
5MHz	QPSK	1	0	21.45	21.59	21.40	23.00
		1	13	21.39	21.40	21.43	23.00
		1	24	21.52	21.34	21.33	23.00
		12	0	21.34	21.52	21.28	23.00
		12	6	21.38	21.44	21.39	23.00
		12	13	21.50	21.35	21.35	23.00
		25	0	21.39	21.57	21.36	23.00
	16QAM	1	0	21.31	21.41	21.33	23.00
		1	13	21.44	21.31	21.43	23.00
		1	24	21.33	21.50	21.36	23.00
		12	0	21.40	21.36	21.45	23.00
		12	6	21.44	21.36	21.51	23.00
		12	13	21.40	21.43	21.43	23.00
		25	0	21.25	21.05	21.22	23.00
	64QAM	1	0	21.04	21.39	21.62	23.00
		1	13	21.59	21.28	21.29	23.00



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		1	24	21.30	21.63	21.37	23.00
		12	0	20.19	20.27	20.26	22.00
		12	6	20.17	20.24	20.06	22.00
		12	13	20.13	20.28	20.45	22.00
		25	0	20.09	20.11	20.20	22.00
	256QAM	1	0	19.14	19.40	19.75	21.00
		1	13	19.71	19.38	19.35	21.00
		1	24	19.45	19.66	19.50	21.00
		12	0	18.28	18.28	18.32	20.00
		12	6	18.19	18.26	18.15	20.00
		12	13	18.33	18.35	18.53	20.00
		25	0	18.18	18.20	18.31	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20450	20525	20600	
10MHz	QPSK	1	0	21.52	21.60	21.36	23.00
		1	25	21.31	21.40	21.32	23.00
		1	49	21.44	21.35	21.39	23.00
		25	0	21.37	21.44	21.32	23.00
		25	13	21.29	21.34	21.51	23.00
		25	25	21.53	21.41	21.36	23.00
	16QAM	50	0	21.36	21.53	21.44	23.00
		1	0	21.39	21.48	21.39	23.00
		1	25	21.52	21.34	21.43	23.00
		1	49	21.34	21.42	21.27	23.00
		25	0	21.44	21.38	21.43	23.00
		25	13	21.48	21.42	21.44	23.00
	64QAM	25	25	21.44	21.42	21.38	23.00
		50	0	21.17	21.16	21.20	23.00
		1	0	21.13	21.42	21.72	23.00
		1	25	21.72	21.36	21.41	23.00
		1	49	21.23	21.58	21.35	23.00
		25	0	20.27	20.23	20.20	22.00
	256QAM	25	13	20.31	20.26	20.22	22.00
		25	25	20.31	20.33	20.41	22.00
		50	0	20.20	20.11	20.32	22.00
		1	0	19.11	19.49	19.82	21.00
		1	25	19.76	19.47	19.49	21.00
		1	49	19.27	19.55	19.43	21.00
		25	0	18.25	18.29	18.25	20.00
		25	13	18.35	18.29	18.18	20.00
		25	25	18.31	18.43	18.51	20.00
		50	0	18.27	18.15	18.43	20.00

LTE Band 26 Ant 0 Sensor On For UL CA&ENDC				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26697	26865	27033	
1.4MHz	QPSK	1	0	21.57	21.52	21.34	23.00
		1	2	21.36	21.39	21.43	23.00
		1	5	21.53	21.30	21.38	23.00
		3	0	21.31	21.45	21.36	23.00



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		3	2	21.28	21.33	21.38	23.00
		3	3	21.49	21.49	21.24	23.00
		6	0	21.36	21.45	21.39	23.00
	16QAM	1	0	21.36	21.48	21.33	23.00
		1	2	21.48	21.43	21.31	23.00
		1	5	21.31	21.48	21.29	23.00
		3	0	21.45	21.47	21.42	23.00
		3	2	21.41	21.35	21.47	23.00
		3	3	21.43	21.40	21.43	23.00
		6	0	21.24	21.15	21.29	23.00
	64QAM	1	0	21.13	21.50	21.75	23.00
		1	2	21.78	21.38	21.35	23.00
		1	5	21.19	21.63	21.42	23.00
		3	0	21.00	21.36	21.70	23.00
		3	2	21.75	21.37	21.26	23.00
		3	3	21.17	21.68	21.37	23.00
		6	0	20.28	20.19	20.43	22.00
	256QAM	1	0	19.12	19.53	19.72	21.00
		1	2	19.78	19.44	19.48	21.00
		1	5	19.20	19.74	19.45	21.00
		3	0	19.05	19.47	19.71	21.00
		3	2	19.77	19.37	19.46	21.00
		3	3	19.16	19.72	19.34	21.00
		6	0	18.30	18.18	18.49	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26705	26865	27025	
3MHz	QPSK	1	0	21.44	21.58	21.35	23.00
		1	7	21.41	21.44	21.44	23.00
		1	14	21.53	21.34	21.31	23.00
		8	0	21.32	21.46	21.37	23.00
		8	4	21.35	21.33	21.48	23.00
		8	7	21.52	21.48	21.27	23.00
		15	0	21.36	21.53	21.38	23.00
	16QAM	1	0	21.40	21.48	21.30	23.00
		1	7	21.54	21.36	21.38	23.00
		1	14	21.44	21.47	21.37	23.00
		8	0	21.37	21.39	21.37	23.00
		8	4	21.43	21.37	21.40	23.00
		8	7	21.33	21.39	21.38	23.00
		15	0	21.26	21.19	21.20	23.00
	64QAM	1	0	21.13	21.49	21.69	23.00
		1	7	21.79	21.42	21.35	23.00
		1	14	21.25	21.63	21.43	23.00
		8	0	20.20	20.26	20.22	22.00
		8	4	20.28	20.24	20.22	22.00
		8	7	20.27	20.36	20.44	22.00
		15	0	20.20	20.14	20.44	22.00
	256QAM	1	0	19.09	19.56	19.69	21.00
		1	7	19.77	19.42	19.46	21.00
		1	14	19.18	19.71	19.45	21.00
		8	0	18.21	18.32	18.29	20.00
		8	4	18.35	18.24	18.32	20.00
		8	7	18.28	18.47	18.41	20.00
		15	0	18.21	18.16	18.48	20.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26715	26865	27015	
5MHz	QPSK	1	0	21.46	21.49	21.34	23.00
		1	13	21.31	21.52	21.40	23.00
		1	24	21.44	21.30	21.34	23.00
		12	0	21.41	21.56	21.27	23.00
		12	6	21.31	21.44	21.49	23.00
		12	13	21.40	21.44	21.24	23.00
		25	0	21.39	21.56	21.45	23.00
	16QAM	1	0	21.32	21.43	21.36	23.00
		1	13	21.51	21.43	21.31	23.00
		1	24	21.31	21.39	21.24	23.00
		12	0	21.45	21.48	21.47	23.00
		12	6	21.44	21.38	21.52	23.00
		12	13	21.45	21.47	21.39	23.00
		25	0	21.26	21.11	21.27	23.00
	64QAM	1	0	21.13	21.49	21.72	23.00
		1	13	21.68	21.36	21.33	23.00
		1	24	21.37	21.65	21.42	23.00
		12	0	20.24	20.31	20.31	22.00
		12	6	20.20	20.25	20.16	22.00
		12	13	20.19	20.29	20.50	22.00
		25	0	20.17	20.21	20.29	22.00
	256QAM	1	0	19.24	19.48	19.78	21.00
		1	13	19.75	19.38	19.36	21.00
		1	24	19.46	19.73	19.50	21.00
		12	0	18.30	18.37	18.35	20.00
		12	6	18.26	18.29	18.21	20.00
		12	13	18.34	18.45	18.53	20.00
		25	0	18.20	18.20	18.31	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26750	26865	26990	
10MHz	QPSK	1	0	21.48	21.66	21.32	23.00
		1	25	21.41	21.39	21.37	23.00
		1	49	21.53	21.31	21.29	23.00
		25	0	21.36	21.56	21.27	23.00
		25	13	21.42	21.35	21.44	23.00
		25	25	21.50	21.49	21.30	23.00
		50	0	21.36	21.52	21.39	23.00
	16QAM	1	0	21.40	21.38	21.33	23.00
		1	25	21.49	21.35	21.43	23.00
		1	49	21.35	21.51	21.39	23.00
		25	0	21.38	21.37	21.37	23.00
		25	13	21.48	21.38	21.46	23.00
		25	25	21.40	21.48	21.43	23.00
		50	0	21.26	21.16	21.30	23.00
	64QAM	1	0	21.21	21.52	21.76	23.00
		1	25	21.79	21.45	21.45	23.00
		1	49	21.32	21.67	21.40	23.00
		25	0	20.30	20.28	20.25	22.00
		25	13	20.34	20.28	20.23	22.00
		25	25	20.31	20.39	20.45	22.00
		50	0	20.27	20.20	20.38	22.00
	256QAM	1	0	19.21	19.51	19.82	21.00



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		1	25	19.80	19.48	19.50	21.00
		1	49	19.35	19.64	19.53	21.00
		25	0	18.30	18.38	18.32	20.00
		25	13	18.40	18.35	18.27	20.00
		25	25	18.36	18.49	18.52	20.00
		50	0	18.32	18.25	18.43	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				26775	26865	26965	
15MHz	QPSK	1	0	21.46	21.66	21.34	23.00
		1	38	21.33	21.44	21.32	23.00
		1	74	21.39	21.39	21.38	23.00
		36	0	21.35	21.44	21.32	23.00
		36	18	21.24	21.31	21.56	23.00
		36	39	21.51	21.39	21.34	23.00
		75	0	21.34	21.57	21.44	23.00
	16QAM	1	0	21.35	21.49	21.36	23.00
		1	38	21.51	21.36	21.38	23.00
		1	74	21.36	21.37	21.30	23.00
		36	0	21.39	21.33	21.45	23.00
		36	18	21.43	21.41	21.42	23.00
		36	39	21.40	21.45	21.43	23.00
		75	0	21.12	21.14	21.18	23.00
	64QAM	1	0	21.12	21.40	21.73	23.00
		1	38	21.67	21.40	21.39	23.00
		1	74	21.23	21.60	21.36	23.00
		36	0	20.25	20.37	20.33	22.00
		36	18	20.27	20.27	20.31	22.00
		36	39	20.23	20.37	20.46	22.00
		75	0	20.27	20.21	20.37	22.00
	256QAM	1	0	19.17	19.51	19.82	21.00
		1	38	19.88	19.44	19.50	21.00
		1	74	19.39	19.68	19.52	21.00
		36	0	18.29	18.42	18.27	20.00
		36	18	18.38	18.31	18.28	20.00
		36	39	18.30	18.43	18.53	20.00
		75	0	18.36	18.31	18.48	20.00

LTE Band 2 Ant 0 Sensor On For UL CA&ENDC				Conducted Power(dBm)			
Bandwidth	Modulation		RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	14.39	14.38	14.34	15.00
		1	2	14.31	14.43	14.29	15.00
		1	5	14.41	14.23	14.19	15.00
		3	0	14.27	14.39	14.22	15.00
		3	2	14.25	14.34	14.37	15.00
		3	3	14.44	14.25	14.24	15.00
		6	0	14.28	14.41	14.32	15.00
	16QAM	1	0	14.25	14.32	14.24	15.00
		1	2	14.34	14.25	14.36	15.00
		1	5	14.21	14.40	14.28	15.00
		3	0	14.30	14.33	14.31	15.00
		3	2	14.35	14.18	14.27	15.00



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		3	3	14.33	14.32	14.35	15.00
		6	0	14.27	14.40	14.21	15.00
	64QAM	1	0	14.37	14.21	14.40	15.00
		1	2	14.30	14.33	14.25	15.00
		1	5	14.26	14.45	14.19	15.00
		3	0	14.35	14.29	14.22	15.00
		3	2	14.36	14.33	14.31	15.00
		3	3	14.28	14.36	14.25	15.00
		6	0	14.45	14.24	14.28	15.00
	256QAM	1	0	14.32	14.43	14.24	15.00
		1	2	14.44	14.17	14.22	15.00
		1	5	14.25	14.40	14.37	15.00
		3	0	14.29	14.37	14.26	15.00
		3	2	14.40	14.31	14.27	15.00
		3	3	14.33	14.23	14.39	15.00
		6	0	14.32	14.32	14.33	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18615	18900	19185	
3MHz	QPSK	1	0	14.45	14.42	14.32	15.00
		1	7	14.26	14.31	14.29	15.00
		1	14	14.35	14.26	14.18	15.00
		8	0	14.29	14.33	14.18	15.00
		8	4	14.20	14.32	14.28	15.00
		8	7	14.42	14.25	14.17	15.00
		15	0	14.23	14.43	14.33	15.00
	16QAM	1	0	14.19	14.40	14.20	15.00
		1	7	14.31	14.23	14.31	15.00
		1	14	14.29	14.40	14.26	15.00
		8	0	14.26	14.26	14.31	15.00
		8	4	14.30	14.23	14.34	15.00
		8	7	14.25	14.30	14.30	15.00
		15	0	14.23	14.30	14.23	15.00
	64QAM	1	0	14.42	14.33	14.26	15.00
		1	7	14.35	14.39	14.29	15.00
		1	14	14.32	14.39	14.19	15.00
		8	0	14.34	14.24	14.36	15.00
		8	4	14.23	14.41	14.29	15.00
		8	7	14.28	14.43	14.18	15.00
		15	0	14.42	14.34	14.28	15.00
	256QAM	1	0	14.30	14.39	14.23	15.00
		1	7	14.47	14.25	14.28	15.00
		1	14	14.36	14.35	14.39	15.00
		8	0	14.29	14.31	14.21	15.00
		8	4	14.32	14.30	14.31	15.00
		8	7	14.42	14.33	14.38	15.00
		15	0	14.43	14.32	14.27	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	14.42	14.39	14.36	15.00
		1	13	14.34	14.42	14.22	15.00
		1	24	14.42	14.23	14.33	15.00
		12	0	14.29	14.41	14.16	15.00
		12	6	14.20	14.29	14.33	15.00



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		12	13	14.36	14.29	14.18	15.00
		25	0	14.22	14.38	14.21	15.00
	16QAM	1	0	14.26	14.30	14.18	15.00
		1	13	14.30	14.25	14.22	15.00
		1	24	14.25	14.30	14.29	15.00
		12	0	14.36	14.33	14.25	15.00
		12	6	14.34	14.26	14.28	15.00
		12	13	14.34	14.40	14.32	15.00
		25	0	14.32	14.41	14.26	15.00
	64QAM	1	0	14.34	14.28	14.40	15.00
		1	13	14.26	14.38	14.22	15.00
		1	24	14.27	14.37	14.24	15.00
		12	0	14.37	14.28	14.28	15.00
		12	6	14.28	14.38	14.28	15.00
		12	13	14.26	14.36	14.17	15.00
		25	0	14.35	14.30	14.28	15.00
	256QAM	1	0	14.33	14.38	14.30	15.00
		1	13	14.47	14.20	14.27	15.00
		1	24	14.27	14.33	14.41	15.00
		12	0	14.32	14.37	14.22	15.00
		12	6	14.33	14.24	14.28	15.00
		12	13	14.32	14.22	14.28	15.00
		25	0	14.31	14.31	14.28	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	QPSK	1	0	14.35	14.45	14.22	15.00
		1	25	14.32	14.40	14.31	15.00
		1	49	14.31	14.25	14.22	15.00
		25	0	14.30	14.36	14.15	15.00
		25	13	14.19	14.23	14.37	15.00
		25	25	14.35	14.25	14.25	15.00
		50	0	14.22	14.46	14.25	15.00
	16QAM	1	0	14.23	14.28	14.24	15.00
		1	25	14.34	14.25	14.27	15.00
		1	49	14.23	14.27	14.15	15.00
		25	0	14.28	14.33	14.29	15.00
		25	13	14.31	14.30	14.31	15.00
		25	25	14.30	14.29	14.38	15.00
		50	0	14.32	14.34	14.25	15.00
	64QAM	1	0	14.35	14.27	14.30	15.00
		1	25	14.30	14.36	14.29	15.00
		1	49	14.35	14.42	14.31	15.00
		25	0	14.38	14.23	14.24	15.00
		25	13	14.25	14.39	14.38	15.00
		25	25	14.23	14.31	14.20	15.00
		50	0	14.43	14.22	14.29	15.00
	256QAM	1	0	14.29	14.32	14.26	15.00
		1	25	14.39	14.19	14.28	15.00
		1	49	14.29	14.32	14.29	15.00
		25	0	14.35	14.38	14.17	15.00
		25	13	14.33	14.29	14.33	15.00
		25	25	14.30	14.27	14.38	15.00
		50	0	14.37	14.31	14.40	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	



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15MHz	QPSK	1	0	14.39	14.38	14.25	15.00
		1	38	14.31	14.35	14.25	15.00
		1	74	14.37	14.26	14.28	15.00
		36	0	14.18	14.37	14.23	15.00
		36	18	14.21	14.30	14.38	15.00
		36	39	14.30	14.30	14.20	15.00
		75	0	14.27	14.38	14.30	15.00
	16QAM	1	0	14.18	14.35	14.21	15.00
		1	38	14.34	14.23	14.31	15.00
		1	74	14.23	14.40	14.21	15.00
		36	0	14.36	14.38	14.31	15.00
		36	18	14.35	14.21	14.38	15.00
		36	39	14.34	14.32	14.34	15.00
		75	0	14.23	14.37	14.28	15.00
	64QAM	1	0	14.30	14.23	14.29	15.00
		1	38	14.36	14.35	14.17	15.00
		1	74	14.33	14.44	14.22	15.00
		36	0	14.34	14.16	14.31	15.00
		36	18	14.27	14.27	14.32	15.00
		36	39	14.26	14.36	14.16	15.00
		75	0	14.37	14.23	14.33	15.00
	256QAM	1	0	14.27	14.37	14.20	15.00
		1	38	14.41	14.17	14.35	15.00
		1	74	14.35	14.30	14.36	15.00
		36	0	14.34	14.43	14.25	15.00
		36	18	14.33	14.31	14.33	15.00
		36	39	14.32	14.19	14.34	15.00
		75	0	14.43	14.33	14.30	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18700	18900	19100	
20MHz	QPSK	1	0	14.44	14.48	14.23	15.00
		1	50	14.34	14.31	14.27	15.00
		1	99	14.44	14.27	14.23	15.00
		50	0	14.21	14.35	14.13	15.00
		50	25	14.21	14.33	14.32	15.00
		50	50	14.30	14.32	14.13	15.00
		100	0	14.23	14.44	14.28	15.00
	16QAM	1	0	14.27	14.39	14.26	15.00
		1	50	14.36	14.20	14.31	15.00
		1	99	14.28	14.41	14.18	15.00
		50	0	14.29	14.32	14.37	15.00
		50	25	14.43	14.30	14.35	15.00
		50	50	14.22	14.31	14.31	15.00
		100	0	14.28	14.44	14.26	15.00
	64QAM	1	0	14.38	14.27	14.39	15.00
		1	50	14.37	14.27	14.25	15.00
		1	99	14.35	14.31	14.27	15.00
		50	0	14.46	14.23	14.34	15.00
		50	25	14.28	14.37	14.34	15.00
		50	50	14.27	14.36	14.16	15.00
		100	0	14.32	14.26	14.40	15.00
	256QAM	1	0	14.33	14.44	14.29	15.00
		1	50	14.46	14.24	14.31	15.00
		1	99	14.30	14.37	14.32	15.00
		50	0	14.28	14.39	14.20	15.00



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	50	25	14.37	14.27	14.26	15.00
	50	50	14.33	14.20	14.38	15.00
	100	0	14.44	14.20	14.38	15.00

LTE Band 7 Ant 0 Sensor On For UL CA&ENDC				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	14.44	14.43	14.30	15.00
		1	13	14.30	14.39	14.36	15.00
		1	24	14.40	14.31	14.24	15.00
		12	0	14.29	14.33	14.20	15.00
		12	6	14.20	14.27	14.36	15.00
		12	13	14.42	14.25	14.26	15.00
	16QAM	25	0	14.31	14.42	14.26	15.00
		1	0	14.19	14.36	14.21	15.00
		1	13	14.32	14.28	14.32	15.00
		1	24	14.24	14.28	14.26	15.00
		12	0	14.31	14.37	14.35	15.00
		12	6	14.40	14.32	14.38	15.00
	64QAM	12	13	14.24	14.28	14.40	15.00
		25	0	14.31	14.39	14.14	15.00
		1	0	14.38	14.24	14.34	15.00
		1	13	14.31	14.38	14.22	15.00
		1	24	14.28	14.45	14.17	15.00
		12	0	14.35	14.27	14.26	15.00
	256QAM	12	6	14.32	14.37	14.39	15.00
		12	13	14.24	14.34	14.18	15.00
		25	0	14.41	14.31	14.31	15.00
		1	0	14.24	14.34	14.20	15.00
		1	13	14.46	14.24	14.24	15.00
		1	24	14.27	14.38	14.35	15.00
10MHz	QPSK	12	0	14.21	14.41	14.23	15.00
		12	6	14.34	14.21	14.28	15.00
		12	13	14.37	14.34	14.32	15.00
		25	0	14.31	14.33	14.34	15.00
		1	0	14.46	14.45	14.26	15.00
		1	25	14.29	14.38	14.33	15.00
	16QAM	1	49	14.33	14.22	14.29	15.00
		25	0	14.29	14.45	14.15	15.00
		25	13	14.31	14.32	14.38	15.00
		25	25	14.45	14.38	14.25	15.00
		50	0	14.28	14.45	14.28	15.00
		1	0	14.23	14.28	14.14	15.00
	QPSK	1	25	14.35	14.31	14.26	15.00
		1	49	14.29	14.28	14.17	15.00
		25	0	14.32	14.32	14.38	15.00
		25	13	14.36	14.25	14.37	15.00
		25	25	14.35	14.28	14.42	15.00
		50	0	14.21	14.30	14.22	15.00



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	64QAM	1	0	14.43	14.34	14.28	15.00
		1	25	14.29	14.33	14.18	15.00
		1	49	14.34	14.43	14.22	15.00
		25	0	14.46	14.28	14.22	15.00
		25	13	14.36	14.30	14.40	15.00
		25	25	14.28	14.41	14.28	15.00
		50	0	14.41	14.33	14.28	15.00
	256QAM	1	0	14.27	14.41	14.20	15.00
		1	25	14.36	14.16	14.34	15.00
		1	49	14.24	14.36	14.31	15.00
		25	0	14.24	14.43	14.23	15.00
		25	13	14.43	14.24	14.32	15.00
		25	25	14.40	14.30	14.28	15.00
		50	0	14.37	14.31	14.27	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	14.39	14.42	14.23	15.00
		1	38	14.22	14.35	14.27	15.00
		1	74	14.34	14.28	14.20	15.00
		36	0	14.24	14.43	14.15	15.00
		36	18	14.20	14.22	14.30	15.00
		36	39	14.41	14.38	14.16	15.00
		75	0	14.23	14.39	14.35	15.00
	16QAM	1	0	14.18	14.37	14.25	15.00
		1	38	14.38	14.19	14.26	15.00
		1	74	14.24	14.36	14.20	15.00
		36	0	14.37	14.27	14.31	15.00
		36	18	14.35	14.31	14.28	15.00
		36	39	14.25	14.36	14.33	15.00
		75	0	14.21	14.36	14.15	15.00
	64QAM	1	0	14.35	14.22	14.28	15.00
		1	38	14.34	14.38	14.21	15.00
		1	74	14.24	14.36	14.23	15.00
		36	0	14.46	14.29	14.28	15.00
		36	18	14.23	14.37	14.41	15.00
		36	39	14.30	14.34	14.23	15.00
		75	0	14.41	14.20	14.35	15.00
	256QAM	1	0	14.34	14.39	14.19	15.00
		1	38	14.36	14.22	14.35	15.00
		1	74	14.23	14.38	14.40	15.00
		36	0	14.23	14.36	14.28	15.00
		36	18	14.40	14.31	14.27	15.00
		36	39	14.35	14.25	14.33	15.00
		75	0	14.34	14.33	14.36	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20850	21100	21350	
20MHz	QPSK	1	0	14.34	14.52	14.27	15.00
		1	50	14.29	14.38	14.31	15.00
		1	99	14.38	14.30	14.21	15.00
		50	0	14.20	14.35	14.17	15.00
		50	25	14.18	14.20	14.32	15.00
		50	50	14.35	14.33	14.16	15.00
		100	0	14.22	14.35	14.33	15.00
	16QAM	1	0	14.29	14.30	14.28	15.00



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		1	50	14.31	14.28	14.32	15.00
		1	99	14.28	14.35	14.21	15.00
		50	0	14.30	14.31	14.25	15.00
		50	25	14.37	14.21	14.42	15.00
		50	50	14.36	14.37	14.37	15.00
		100	0	14.34	14.43	14.18	15.00
	64QAM	1	0	14.39	14.27	14.36	15.00
		1	50	14.38	14.32	14.21	15.00
		1	99	14.28	14.39	14.29	15.00
		50	0	14.40	14.23	14.34	15.00
		50	25	14.27	14.29	14.32	15.00
		50	50	14.34	14.33	14.25	15.00
		100	0	14.44	14.32	14.37	15.00
	256QAM	1	0	14.31	14.37	14.26	15.00
		1	50	14.46	14.30	14.30	15.00
		1	99	14.31	14.30	14.39	15.00
		50	0	14.25	14.39	14.15	15.00
		50	25	14.35	14.23	14.39	15.00
		50	50	14.44	14.25	14.35	15.00
		100	0	14.37	14.21	14.39	15.00

LTE Band 2 Ant 1 Sensor On For UL CA&ENDC				Conducted Power(dBm)			
Bandwidth	Modulation		RB offset	Channel	Channel	Channel	Tune up
				18607	18900	19193	
1.4MHz	QPSK	1	0	18.13	18.06	18.16	19.00
		1	2	18.13	18.00	18.18	19.00
		1	5	17.98	18.26	18.08	19.00
		3	0	18.02	18.11	18.14	19.00
		3	2	18.04	18.07	18.12	19.00
		3	3	17.96	18.13	17.97	19.00
	16QAM	6	0	18.01	18.15	18.16	19.00
		1	0	18.11	18.07	18.18	19.00
		1	2	18.07	18.14	18.20	19.00
		1	5	18.10	18.06	18.27	19.00
		3	0	18.01	18.15	18.17	19.00
		3	2	18.08	18.05	18.21	19.00
	64QAM	3	3	18.07	18.12	18.06	19.00
		6	0	17.93	18.05	18.06	19.00
		1	0	18.12	18.21	18.14	19.00
		1	2	18.00	18.09	18.27	19.00
		1	5	18.03	18.07	18.12	19.00
		3	0	18.08	18.25	18.08	19.00
	256QAM	3	2	18.14	18.16	18.24	19.00
		3	3	18.01	18.06	18.21	19.00
		6	0	17.98	18.20	18.05	19.00
		1	0	18.04	18.01	18.10	19.00
		1	2	17.92	18.10	18.16	19.00
		1	5	17.86	18.04	17.96	19.00
		3	0	17.94	18.08	18.02	19.00
		3	2	17.92	17.96	18.10	19.00
		3	3	18.11	17.97	18.09	19.00
		6	0	17.90	18.16	17.96	19.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18615	18900	19185	
3MHz	QPSK	1	0	18.02	18.14	18.14	19.00
		1	7	18.05	17.99	18.10	19.00
		1	14	17.94	18.17	18.02	19.00
		8	0	18.04	18.05	18.16	19.00
		8	4	18.04	17.97	18.14	19.00
		8	7	17.93	18.12	17.97	19.00
		15	0	17.95	18.17	18.08	19.00
	16QAM	1	0	18.06	18.08	18.20	19.00
		1	7	18.12	18.03	18.15	19.00
		1	14	18.07	18.01	18.17	19.00
		8	0	18.05	18.13	18.08	19.00
		8	4	18.00	18.14	18.12	19.00
		8	7	18.13	18.10	18.07	19.00
		15	0	17.98	18.16	18.08	19.00
	64QAM	1	0	18.11	18.10	18.20	19.00
		1	7	18.08	18.07	18.17	19.00
		1	14	18.05	18.11	18.10	19.00
		8	0	18.05	18.23	18.16	19.00
		8	4	18.06	18.08	18.28	19.00
		8	7	17.99	18.15	18.13	19.00
		15	0	18.12	18.21	17.99	19.00
	256QAM	1	0	18.09	18.10	18.11	19.00
		1	7	17.92	18.11	18.06	19.00
		1	14	17.96	18.10	17.95	19.00
		8	0	17.97	18.13	17.98	19.00
		8	4	18.03	18.02	18.12	19.00
		8	7	18.13	17.89	18.04	19.00
		15	0	17.84	18.06	17.94	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18625	18900	19175	
5MHz	QPSK	1	0	18.06	18.17	18.13	19.00
		1	13	18.14	18.01	18.21	19.00
		1	24	18.02	18.19	18.08	19.00
		12	0	18.05	18.08	18.13	19.00
		12	6	18.13	17.95	18.15	19.00
		12	13	17.89	18.09	18.08	19.00
		25	0	17.98	18.18	18.22	19.00
	16QAM	1	0	18.01	18.12	18.13	19.00
		1	13	18.01	18.13	18.10	19.00
		1	24	18.08	18.09	18.17	19.00
		12	0	18.03	18.09	18.20	19.00
		12	6	18.09	18.14	18.21	19.00
		12	13	18.00	18.17	18.16	19.00
		25	0	17.99	18.12	18.00	19.00
	64QAM	1	0	18.10	18.18	18.23	19.00
		1	13	18.07	18.02	18.23	19.00
		1	24	18.06	18.09	18.07	19.00
		12	0	18.03	18.18	18.22	19.00
		12	6	18.06	18.05	18.28	19.00
		12	13	17.97	18.12	18.13	19.00
		25	0	17.99	18.16	17.93	19.00



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		1	0	18.03	18.12	18.06	19.00
		1	13	17.98	18.07	18.09	19.00
		1	24	17.87	18.07	17.95	19.00
		12	0	17.91	18.05	18.01	19.00
		12	6	17.92	18.02	17.99	19.00
		12	13	18.09	17.89	17.98	19.00
		25	0	17.87	18.13	17.91	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18650	18900	19150	
10MHz	QPSK	1	0	18.01	18.11	18.21	19.00
		1	25	18.03	18.01	18.10	19.00
		1	49	17.95	18.22	18.07	19.00
		25	0	18.00	18.10	18.15	19.00
		25	13	18.00	17.97	18.05	19.00
		25	25	17.97	18.07	18.05	19.00
		50	0	18.00	18.16	18.08	19.00
	16QAM	1	0	18.06	18.04	18.15	19.00
		1	25	18.01	18.04	18.09	19.00
		1	49	18.05	18.04	18.23	19.00
		25	0	18.00	18.09	18.14	19.00
		25	13	18.04	18.11	18.19	19.00
		25	25	18.09	18.20	18.07	19.00
		50	0	17.96	18.05	18.12	19.00
	64QAM	1	0	18.17	18.20	18.18	19.00
		1	25	17.98	18.01	18.29	19.00
		1	49	18.17	18.03	18.02	19.00
		25	0	17.99	18.14	18.10	19.00
		25	13	18.14	18.10	18.20	19.00
		25	25	18.02	18.08	18.13	19.00
		50	0	18.10	18.15	18.01	19.00
	256QAM	1	0	18.06	18.13	17.99	19.00
		1	25	17.99	18.09	18.04	19.00
		1	49	17.99	18.06	18.07	19.00
		25	0	17.89	18.18	17.99	19.00
		25	13	18.04	18.03	18.00	19.00
		25	25	18.09	17.94	18.03	19.00
		50	0	17.95	18.16	17.93	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				18675	18900	19125	
15MHz	QPSK	1	0	18.05	18.18	18.20	19.00
		1	38	18.02	17.92	18.17	19.00
		1	74	18.06	18.15	18.10	19.00
		36	0	18.08	18.13	18.13	19.00
		36	18	18.01	17.95	18.14	19.00
		36	39	17.96	18.12	18.04	19.00
		75	0	17.95	18.23	18.14	19.00
	16QAM	1	0	18.12	18.06	18.22	19.00
		1	38	18.05	18.07	18.15	19.00
		1	74	18.02	17.96	18.29	19.00
		36	0	18.00	18.19	18.19	19.00
		36	18	18.07	18.03	18.16	19.00
		36	39	18.15	18.10	18.06	19.00
		75	0	18.01	18.08	18.06	19.00
	64QAM	1	0	18.14	18.20	18.22	19.00
		1	38	18.00	18.11	18.19	19.00



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		1	74	18.14	17.98	18.07	19.00	
		36	0	18.06	18.16	18.11	19.00	
		36	18	18.17	18.11	18.18	19.00	
		36	39	18.00	18.14	18.10	19.00	
		75	0	18.10	18.10	17.95	19.00	
	256QAM	1	0	18.08	18.08	18.01	19.00	
		1	38	17.91	18.10	18.15	19.00	
		1	74	17.85	18.06	17.97	19.00	
		36	0	17.98	18.17	18.04	19.00	
		36	18	18.03	18.02	18.10	19.00	
		36	39	18.12	17.94	17.98	19.00	
		75	0	17.89	18.14	18.01	19.00	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					18700	18900	19100	
20MHz	QPSK	1	0	18.13	18.31	18.21	19.00	
		1	50	18.03	18.03	18.10	19.00	
		1	99	18.02	18.17	18.08	19.00	
		50	0	18.10	18.08	18.14	19.00	
		50	25	17.99	18.09	18.04	19.00	
		50	50	18.01	18.07	18.08	19.00	
		100	0	18.03	18.14	18.11	19.00	
	16QAM	1	0	18.01	18.05	18.18	19.00	
		1	50	18.09	18.04	18.14	19.00	
		1	99	18.08	17.99	18.30	19.00	
		50	0	18.01	18.16	18.18	19.00	
		50	25	18.09	18.05	18.11	19.00	
		50	50	18.04	18.09	18.18	19.00	
		100	0	17.96	18.08	18.08	19.00	
	64QAM	1	0	18.11	18.12	18.15	19.00	
		1	50	18.07	18.06	18.25	19.00	
		1	99	18.13	18.06	18.04	19.00	
		50	0	18.04	18.19	18.10	19.00	
		50	25	18.14	18.06	18.28	19.00	
		50	50	18.04	18.03	18.13	19.00	
		100	0	18.08	18.09	17.94	19.00	
	256QAM	1	0	18.02	18.11	18.10	19.00	
		1	50	18.01	18.11	18.14	19.00	
		1	99	17.98	18.07	18.01	19.00	
		50	0	17.95	18.06	18.03	19.00	
		50	25	18.00	17.96	18.07	19.00	
		50	50	18.08	18.00	18.04	19.00	
		100	0	17.94	18.10	17.94	19.00	

LTE Band 4 Ant 1 Sensor On For UL CA&ENDC				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19957	20175	20393	
1.4MHz	QPSK	1	0	18.10	18.16	18.09	19.00
		1	2	18.12	17.93	18.14	19.00
		1	5	18.06	18.13	18.05	19.00
		3	0	18.11	18.05	18.21	19.00
		3	2	18.11	18.07	18.14	19.00
		3	3	18.00	18.19	18.01	19.00



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		6	0	17.97	18.22	18.21	19.00
	16QAM	1	0	18.04	18.08	18.09	19.00
		1	2	18.14	18.06	18.19	19.00
		1	5	18.07	17.96	18.15	19.00
		3	0	17.98	18.18	18.08	19.00
		3	2	17.95	18.06	18.18	19.00
		3	3	18.07	18.10	18.16	19.00
		6	0	18.04	18.12	18.09	19.00
	64QAM	1	0	18.16	18.16	18.11	19.00
		1	2	17.99	17.99	18.24	19.00
		1	5	18.03	18.04	18.04	19.00
		3	0	17.95	18.15	18.10	19.00
		3	2	18.17	18.03	18.23	19.00
		3	3	18.02	18.09	18.18	19.00
		6	0	18.09	18.15	17.97	19.00
	256QAM	1	0	18.03	18.03	18.10	19.00
		1	2	17.94	18.02	18.13	19.00
		1	5	17.87	18.02	18.01	19.00
		3	0	17.89	18.16	18.04	19.00
		3	2	17.92	18.01	18.03	19.00
		3	3	18.09	17.90	17.98	19.00
		6	0	17.87	18.12	17.91	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				19965	20175	20385	
3MHz	QPSK	1	0	18.01	18.17	18.21	19.00
		1	7	18.14	18.02	18.10	19.00
		1	14	18.02	18.17	18.10	19.00
		8	0	18.10	18.08	18.16	19.00
		8	4	18.06	18.04	18.07	19.00
		8	7	17.94	18.10	18.08	19.00
		15	0	18.01	18.17	18.15	19.00
	16QAM	1	0	18.03	18.08	18.13	19.00
		1	7	18.01	18.09	18.07	19.00
		1	14	18.11	18.06	18.28	19.00
		8	0	18.08	18.17	18.17	19.00
		8	4	17.96	18.12	18.17	19.00
		8	7	18.02	18.08	18.05	19.00
		15	0	18.03	18.08	18.06	19.00
	64QAM	1	0	18.08	18.11	18.22	19.00
		1	7	18.07	18.10	18.20	19.00
		1	14	18.04	17.99	18.16	19.00
		8	0	18.02	18.12	18.09	19.00
		8	4	18.12	18.15	18.21	19.00
		8	7	17.97	18.05	18.12	19.00
		15	0	18.04	18.10	18.01	19.00
	256QAM	1	0	18.12	18.10	17.97	19.00
		1	7	18.00	18.09	18.12	19.00
		1	14	17.85	18.02	18.05	19.00
		8	0	17.93	18.11	18.04	19.00
		8	4	17.97	17.95	18.09	19.00
		8	7	18.05	17.89	18.01	19.00
		15	0	17.93	18.08	17.93	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up



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				19975	20175	20375	
5MHz	QPSK	1	0	18.06	18.09	18.20	19.00
		1	13	18.03	18.06	18.19	19.00
		1	24	17.98	18.25	18.01	19.00
		12	0	17.99	18.15	18.27	19.00
		12	6	18.01	18.05	18.06	19.00
		12	13	17.91	18.18	17.94	19.00
		25	0	17.94	18.09	18.20	19.00
	16QAM	1	0	17.99	18.12	18.10	19.00
		1	13	18.04	18.06	18.09	19.00
		1	24	18.07	18.03	18.25	19.00
		12	0	17.99	18.10	18.13	19.00
		12	6	18.07	18.16	18.17	19.00
		12	13	18.13	18.11	18.07	19.00
		25	0	18.04	18.10	18.08	19.00
	64QAM	1	0	18.16	18.20	18.14	19.00
		1	13	18.09	18.01	18.24	19.00
		1	24	18.16	18.11	18.06	19.00
		12	0	18.01	18.15	18.18	19.00
		12	6	18.17	18.06	18.22	19.00
		12	13	18.02	18.07	18.14	19.00
		25	0	17.99	18.09	18.00	19.00
	256QAM	1	0	18.04	18.06	17.99	19.00
		1	13	17.95	18.13	18.15	19.00
		1	24	17.88	18.10	18.08	19.00
		12	0	17.98	18.14	17.95	19.00
		12	6	18.02	18.07	18.11	19.00
		12	13	18.05	18.01	17.99	19.00
		25	0	17.97	18.11	17.88	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
10MHz	QPSK	1	0	18.08	18.14	18.21	19.00
		1	25	18.08	17.94	18.16	19.00
		1	49	17.98	18.19	18.09	19.00
		25	0	18.11	18.05	18.20	19.00
		25	13	18.02	18.03	18.12	19.00
		25	25	17.94	18.18	17.97	19.00
		50	0	17.95	18.12	18.10	19.00
	16QAM	1	0	18.02	18.15	18.19	19.00
		1	25	17.99	18.02	18.09	19.00
		1	49	18.11	18.09	18.27	19.00
		25	0	18.01	18.10	18.19	19.00
		25	13	17.96	18.13	18.12	19.00
		25	25	18.02	18.10	18.05	19.00
		50	0	17.93	18.07	18.00	19.00
	64QAM	1	0	18.16	18.14	18.22	19.00
		1	25	18.11	18.00	18.25	19.00
		1	49	18.05	18.02	18.07	19.00
		25	0	18.02	18.18	18.19	19.00
		25	13	18.04	18.05	18.26	19.00
		25	25	18.03	18.08	18.10	19.00
		50	0	18.13	18.17	18.05	19.00
	256QAM	1	0	18.10	18.10	18.07	19.00
		1	25	17.96	18.13	18.09	19.00



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		1	49	17.87	18.06	18.08	19.00
		25	0	17.92	18.06	18.04	19.00
		25	13	17.97	17.95	18.05	19.00
		25	25	18.15	17.98	17.99	19.00
		50	0	17.95	18.08	17.90	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325	Tune up
15MHz	QPSK	1	0	18.11	18.15	18.10	19.00
		1	38	18.07	18.01	18.15	19.00
		1	74	18.03	18.22	17.98	19.00
		36	0	18.01	18.15	18.20	19.00
		36	18	18.10	18.03	18.01	19.00
		36	39	17.94	18.08	17.99	19.00
		75	0	17.99	18.14	18.15	19.00
	16QAM	1	0	18.10	18.15	18.12	19.00
		1	38	18.05	18.06	18.17	19.00
		1	74	18.05	18.03	18.30	19.00
		36	0	18.08	18.16	18.14	19.00
		36	18	18.04	18.15	18.10	19.00
		36	39	18.04	18.21	18.10	19.00
		75	0	17.97	18.09	18.07	19.00
	64QAM	1	0	18.19	18.15	18.21	19.00
		1	38	18.01	18.10	18.21	19.00
		1	74	18.10	18.09	18.08	19.00
		36	0	18.01	18.16	18.17	19.00
		36	18	18.09	18.07	18.28	19.00
		36	39	18.06	18.11	18.07	19.00
		75	0	18.03	18.10	17.97	19.00
	256QAM	1	0	18.00	18.10	18.10	19.00
		1	38	17.92	18.09	18.04	19.00
		1	74	17.89	18.02	18.09	19.00
		36	0	17.97	18.10	18.00	19.00
		36	18	18.00	17.98	18.00	19.00
		36	39	18.15	17.97	17.99	19.00
		75	0	17.92	18.12	17.89	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300	Tune up
20MHz	QPSK	1	0	18.11	18.33	18.13	19.00
		1	50	18.12	17.94	18.11	19.00
		1	99	18.03	18.26	18.02	19.00
		50	0	18.01	18.14	18.16	19.00
		50	25	18.13	17.99	18.00	19.00
		50	50	17.93	18.12	18.07	19.00
		100	0	17.94	18.22	18.14	19.00
	16QAM	1	0	18.04	18.05	18.10	19.00
		1	50	18.11	18.07	18.09	19.00
		1	99	18.01	18.07	18.18	19.00
		50	0	18.02	18.08	18.16	19.00
		50	25	17.98	18.06	18.22	19.00
		50	50	18.15	18.12	18.07	19.00
		100	0	17.99	18.06	18.11	19.00
	64QAM	1	0	18.06	18.16	18.22	19.00
		1	50	18.09	18.12	18.26	19.00
		1	99	18.04	18.09	18.12	19.00
		50	0	18.02	18.14	18.12	19.00



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	256QAM	50	25	18.05	18.07	18.23	19.00
		50	50	17.98	18.11	18.16	19.00
		100	0	18.09	18.09	17.95	19.00
		1	0	18.13	18.16	18.04	19.00
		1	50	17.96	18.09	18.06	19.00
		1	99	17.94	18.12	17.94	19.00
		50	0	17.96	18.16	17.99	19.00
		50	25	17.91	18.02	18.13	19.00
		50	50	18.03	17.94	18.09	19.00
		100	0	17.96	18.18	17.99	19.00

LTE Band 7 Ant 1 Sensor On For UL CA&ENDC				Conducted Power(dBm)			
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20775	21100	21425	
5MHz	QPSK	1	0	15.01	15.18	15.13	16.00
		1	13	15.10	15.05	15.12	16.00
		1	24	14.96	15.23	15.04	16.00
		12	0	15.11	15.14	15.14	16.00
		12	6	15.12	15.04	15.04	16.00
		12	13	14.99	15.14	15.03	16.00
	16QAM	25	0	15.04	15.16	15.14	16.00
		1	0	15.00	15.02	15.09	16.00
		1	13	15.02	15.08	15.06	16.00
		1	24	15.04	15.06	15.17	16.00
		12	0	15.11	15.20	15.18	16.00
		12	6	15.09	15.15	15.19	16.00
	64QAM	12	13	15.04	15.21	15.15	16.00
		25	0	15.00	15.07	15.09	16.00
		1	0	15.13	15.18	15.12	16.00
		1	13	15.06	15.07	15.26	16.00
		1	24	15.14	15.10	15.06	16.00
		12	0	14.94	15.20	15.19	16.00
	256QAM	12	6	15.11	15.04	15.19	16.00
		12	13	15.04	15.10	15.07	16.00
		25	0	15.07	15.14	14.91	16.00
		1	0	15.12	15.10	15.01	16.00
		1	13	14.91	15.03	15.14	16.00
		1	24	14.98	15.04	14.95	16.00
10MHz	QPSK	12	0	14.87	15.11	15.01	16.00
		12	6	14.95	15.05	15.06	16.00
		12	13	15.04	14.97	15.03	16.00
		25	0	14.89	15.15	14.93	16.00
		1	0	15.11	15.21	15.13	16.00
		1	25	15.10	14.92	15.22	16.00
		1	49	15.05	15.13	15.04	16.00
		25	0	15.04	15.08	15.12	16.00
		25	13	15.05	15.05	15.14	16.00
		25	25	14.89	15.13	15.04	16.00
		50	0	15.06	15.12	15.12	16.00



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	16QAM	1	0	15.05	15.10	15.12	16.00
		1	25	15.10	15.15	15.09	16.00
		1	49	15.01	14.96	15.19	16.00
		25	0	15.03	15.17	15.13	16.00
		25	13	14.98	15.06	15.15	16.00
		25	25	15.07	15.16	15.12	16.00
		50	0	15.05	15.14	14.97	16.00
	64QAM	1	0	15.07	15.09	15.09	16.00
		1	25	15.04	15.04	15.19	16.00
		1	49	15.04	15.04	15.07	16.00
		25	0	15.01	15.22	15.11	16.00
		25	13	15.16	15.15	15.18	16.00
		25	25	15.02	15.08	15.11	16.00
		50	0	15.10	15.19	14.98	16.00
	256QAM	1	0	15.09	15.02	15.00	16.00
		1	25	15.03	15.05	15.04	16.00
		1	49	14.94	15.05	14.98	16.00
		25	0	14.94	15.06	15.02	16.00
		25	13	14.94	15.05	14.99	16.00
		25	25	15.14	14.89	14.98	16.00
		50	0	14.90	15.11	14.90	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				20825	21100	21375	
15MHz	QPSK	1	0	15.00	15.16	15.10	16.00
		1	38	15.09	14.98	15.10	16.00
		1	74	15.07	15.22	15.01	16.00
		36	0	15.10	15.03	15.23	16.00
		36	18	15.04	14.96	15.13	16.00
		36	39	14.91	15.19	14.95	16.00
		75	0	14.98	15.21	15.11	16.00
	16QAM	1	0	15.03	15.13	15.22	16.00
		1	38	15.00	15.06	15.13	16.00
		1	74	15.07	14.97	15.29	16.00
		36	0	15.05	15.16	15.18	16.00
		36	18	15.06	15.17	15.13	16.00
		36	39	15.09	15.13	15.10	16.00
		75	0	14.93	15.07	15.09	16.00
	64QAM	1	0	15.10	15.09	15.11	16.00
		1	38	15.09	15.12	15.25	16.00
		1	74	15.12	15.08	15.06	16.00
		36	0	15.08	15.16	15.22	16.00
		36	18	15.04	15.15	15.26	16.00
		36	39	14.98	15.05	15.13	16.00
		75	0	15.10	15.19	14.98	16.00
	256QAM	1	0	15.11	15.03	15.00	16.00
		1	38	15.03	15.11	15.09	16.00
		1	74	14.91	15.08	15.02	16.00
		36	0	14.87	15.17	14.99	16.00
		36	18	14.92	15.06	15.08	16.00
		36	39	15.11	14.96	15.03	16.00
		75	0	14.91	15.09	14.95	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
20MHz	QPSK	1	0	15.11	15.34	15.16	16.00



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		1	50	15.10	15.01	15.17	16.00
		1	99	15.00	15.25	15.08	16.00
		50	0	15.05	15.14	15.26	16.00
		50	25	15.09	14.96	15.11	16.00
		50	50	14.95	15.09	15.07	16.00
		100	0	14.97	15.09	15.11	16.00
	16QAM	1	0	15.08	15.14	15.12	16.00
		1	50	15.10	15.09	15.09	16.00
		1	99	15.05	15.08	15.17	16.00
		50	0	14.99	15.15	15.09	16.00
		50	25	14.98	15.15	15.09	16.00
		50	50	15.06	15.14	15.14	16.00
		100	0	15.06	15.11	15.04	16.00
	64QAM	1	0	15.13	15.14	15.15	16.00
		1	50	15.01	15.02	15.25	16.00
		1	99	15.17	15.10	15.05	16.00
		50	0	15.06	15.11	15.12	16.00
		50	25	15.09	15.04	15.23	16.00
		50	50	14.96	15.13	15.16	16.00
		100	0	15.01	15.11	14.92	16.00
	256QAM	1	0	15.11	15.02	15.08	16.00
		1	50	14.93	15.01	15.11	16.00
		1	99	14.89	15.12	15.02	16.00
		50	0	14.89	15.06	15.00	16.00
		50	25	14.92	14.95	15.03	16.00
		50	50	15.12	15.02	15.05	16.00
		100	0	14.97	15.18	14.89	16.00

LTE Band 41 Ant 1 Sensor On For UL CA&ENDC				Conducted Power(dBm)					
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39675	40148	40620	41093	41565	
5MHz	QPSK	1	0	19.13	19.27	19.27	19.28	19.3	20.00
		1	13	19.22	19.12	19.25	19.1	19.26	20.00
		1	24	19.03	19.33	19.08	19.22	19.12	20.00
		12	0	19.21	19.18	19.22	19.14	19.3	20.00
		12	6	19.19	19.11	19.15	19.13	19.13	20.00
		12	13	19.03	19.25	19.12	19.23	19.09	20.00
		25	0	19.14	19.23	19.24	19.31	19.31	20.00
	16QAM	1	0	19.21	19.21	19.25	19.12	19.31	20.00
		1	13	19.12	19.21	19.29	19.13	19.28	20.00
		1	24	19.21	19.05	19.32	19.14	19.35	20.00
		12	0	19.16	19.31	19.26	19.29	19.23	20.00
		12	6	19.07	19.24	19.3	19.15	19.21	20.00
		12	13	19.1	19.28	19.25	19.28	19.17	20.00
		25	0	19.06	19.25	19.15	19.26	19.14	20.00
	64QAM	1	0	19.20	19.17	19.25	19.20	19.32	20.00
		1	13	19.15	19.17	19.28	19.19	19.30	20.00



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		1	24	19.16	19.14	19.11	19.09	19.12	20.00
		12	0	19.06	19.30	19.32	19.29	19.19	20.00
		12	6	19.19	19.24	19.35	19.26	19.25	20.00
		12	13	19.21	19.27	19.30	19.21	19.26	20.00
		25	0	19.21	19.30	19.08	19.28	19.09	20.00
	256QAM	1	0	19.10	19.24	19.13	19.22	19.09	20.00
		1	13	19.02	19.13	19.16	19.23	19.25	20.00
		1	24	19.00	19.14	19.16	19.14	19.04	20.00
		12	0	18.81	19.01	18.97	18.76	18.97	20.00
		12	6	18.91	19.05	19.09	18.88	19.00	20.00
		12	13	18.79	19.16	18.95	18.78	19.13	20.00
		25	0	18.76	18.89	19.09	18.73	18.85	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39700	40160	40620	41080	41540	
10MHz	QPSK	1	0	19.15	19.24	19.28	19.3	19.3	20.00
		1	25	19.2	19.09	19.29	19.07	19.3	20.00
		1	49	19.07	19.26	19.15	19.31	19.18	20.00
		25	0	19.12	19.15	19.24	19.24	19.31	20.00
		25	13	19.2	19.09	19.14	19.16	19.21	20.00
		25	25	19.1	19.17	19.07	19.18	19.09	20.00
	16QAM	50	0	19.12	19.33	19.19	19.22	19.27	20.00
		1	0	19.09	19.13	19.3	19.23	19.29	20.00
		1	25	19.11	19.22	19.28	19.23	19.25	20.00
		1	49	19.08	19.12	19.36	19.13	19.39	20.00
		25	0	19.13	19.25	19.27	19.29	19.25	20.00
		25	13	19.1	19.15	19.23	19.14	19.24	20.00
	64QAM	25	25	19.21	19.27	19.18	19.21	19.22	20.00
		50	0	19.1	19.17	19.18	19.26	19.11	20.00
		1	0	19.23	19.18	19.28	19.26	19.26	20.00
		1	25	19.16	19.22	19.28	19.15	19.30	20.00
		1	49	19.25	19.16	19.19	19.07	19.15	20.00
		25	0	19.18	19.25	19.28	19.34	19.27	20.00
	256QAM	25	13	19.26	19.27	19.37	19.25	19.30	20.00
		25	25	19.10	19.21	19.27	19.21	19.23	20.00
		50	0	19.12	19.19	19.06	19.32	19.13	20.00
		1	0	19.19	19.23	19.14	19.19	19.22	20.00
		1	25	19.08	19.15	19.26	19.12	19.26	20.00
		1	49	18.98	19.16	19.09	19.22	19.05	20.00
		25	0	18.76	18.97	18.93	18.74	18.96	20.00
		25	13	18.97	19.08	19.11	18.96	19.08	20.00
		25	25	18.91	19.11	18.95	18.88	19.07	20.00
		50	0	18.73	18.91	19.00	18.73	18.89	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39725	40173	40620	41068	41515	
15MHz	QPSK	1	0	19.25	19.23	19.31	19.21	19.2	20.00
		1	38	19.18	19.09	19.31	19.05	19.17	20.00
		1	74	19.04	19.26	19.07	19.26	19.13	20.00
		36	0	19.17	19.11	19.24	19.24	19.23	20.00
		36	18	19.11	19.08	19.17	19.14	19.13	20.00
		36	39	18.98	19.2	19.16	19.18	19.17	20.00
		75	0	19.11	19.31	19.27	19.32	19.31	20.00
	16QAM	1	0	19.1	19.14	19.29	19.17	19.28	20.00
		1	38	19.2	19.13	19.16	19.17	19.29	20.00



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		1	74	19.1	19.17	19.31	19.04	19.26	20.00
		36	0	19.08	19.19	19.3	19.17	19.21	20.00
		36	18	19.08	19.15	19.22	19.18	19.28	20.00
		36	39	19.12	19.22	19.24	19.3	19.23	20.00
		75	0	19.03	19.17	19.13	19.24	19.12	20.00
	64QAM	1	0	19.29	19.28	19.20	19.23	19.26	20.00
		1	38	19.14	19.20	19.38	19.09	19.26	20.00
		1	74	19.16	19.14	19.15	19.21	19.14	20.00
		36	0	19.12	19.22	19.31	19.27	19.27	20.00
		36	18	19.20	19.26	19.32	19.17	19.28	20.00
		36	39	19.17	19.23	19.30	19.17	19.25	20.00
		75	0	19.12	19.19	19.06	19.19	19.08	20.00
	256QAM	1	0	19.19	19.12	19.21	19.19	19.20	20.00
		1	38	19.13	19.16	19.19	19.16	19.26	20.00
		1	74	18.96	19.21	19.15	19.18	19.06	20.00
		36	0	18.80	19.05	18.95	18.75	19.00	20.00
		36	18	18.86	19.10	19.09	18.84	19.08	20.00
		36	39	18.89	19.02	18.97	18.87	18.97	20.00
		75	0	18.63	18.88	19.09	18.62	18.83	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				39750	40185	40620	41055	41490	
20MHz	QPSK	1	0	19.49	19.47	19.54	19.53	19.57	20.00
		1	50	19.47	19.33	19.55	19.4	19.51	20.00
		1	99	19.4	19.62	19.39	19.61	19.48	20.00
		50	0	19.42	19.41	19.61	19.52	19.58	20.00
		50	25	19.5	19.49	19.41	19.47	19.45	20.00
		50	50	19.38	19.5	19.39	19.61	19.45	20.00
		100	0	19.42	19.6	19.6	19.49	19.52	20.00
	16QAM	1	0	19.51	19.45	19.54	19.43	19.58	20.00
		1	50	19.52	19.54	19.48	19.56	19.53	20.00
		1	99	19.52	19.38	19.67	19.37	19.59	20.00
		50	0	19.51	19.57	19.55	19.6	19.59	20.00
		50	25	19.36	19.54	19.57	19.46	19.6	20.00
		50	50	19.46	19.52	19.54	19.57	19.59	20.00
		100	0	19.39	19.46	19.46	19.52	19.5	20.00
	64QAM	1	0	19.58	19.58	19.63	19.49	19.60	20.00
		1	50	19.50	19.52	19.64	19.51	19.63	20.00
		1	99	19.56	19.43	19.51	19.39	19.52	20.00
		50	0	19.48	19.52	19.50	19.56	19.58	20.00
		50	25	19.57	19.43	19.61	19.48	19.58	20.00
		50	50	19.45	19.51	19.50	19.45	19.52	20.00
		100	0	19.48	19.52	19.43	19.54	19.39	20.00
	256QAM	1	0	19.39	19.41	19.42	19.43	19.40	20.00
		1	50	19.35	19.40	19.45	19.49	19.51	20.00
		1	99	19.36	19.42	19.44	19.44	19.42	20.00
		50	0	18.82	19.06	18.93	18.77	19.01	20.00
		50	25	18.98	19.10	19.14	18.93	19.07	20.00
		50	50	18.96	19.23	18.97	18.94	19.21	20.00
		100	0	18.81	18.98	19.14	18.78	18.95	20.00

LTE Band 42 Ant 1 Sensor On For UL CA&ENDC

Conducted Power(dBm)

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
-----------	------------	---------	-----------	---------	---------	---------	---------



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Wireless Laboratory

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				42115	42590	43065	
5MHz	QPSK	1	0	22.68	22.89	22.76	24.00
		1	13	22.60	22.83	22.63	24.00
		1	24	22.57	22.78	22.73	24.00
		12	0	22.30	22.45	22.01	24.00
		12	6	22.12	22.52	22.13	24.00
		12	13	22.20	22.46	22.02	24.00
		25	0	22.25	22.37	22.12	24.00
	16QAM	1	0	22.12	22.45	22.15	24.00
		1	13	22.25	22.36	22.14	24.00
		1	24	22.43	22.45	22.23	24.00
		12	0	21.32	21.42	21.01	23.00
		12	6	21.34	21.37	21.11	23.00
		12	13	21.17	21.50	21.21	23.00
		25	0	21.10	21.19	21.20	23.00
	64QAM	1	0	21.34	21.45	21.07	23.00
		1	13	21.09	21.49	21.20	23.00
		1	24	21.24	21.13	21.10	23.00
		12	0	20.33	20.48	20.05	22.00
		12	6	20.10	20.45	20.19	22.00
		12	13	20.26	20.37	20.15	22.00
		25	0	20.35	20.47	20.02	22.00
	256QAM	1	0	19.45	19.51	19.15	21.00
		1	13	19.13	19.59	19.23	21.00
		1	24	19.29	19.23	19.11	21.00
		12	0	18.42	18.57	18.13	20.00
		12	6	18.06	18.50	18.23	20.00
		12	13	18.28	18.46	18.19	20.00
		25	0	18.36	18.57	18.15	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42140	42590	43040	
10MHz	QPSK	1	0	22.76	22.94	22.77	24.00
		1	25	22.69	22.95	22.72	24.00
		1	49	22.70	22.84	22.69	24.00
		25	0	22.38	22.45	22.09	24.00
		25	13	22.19	22.48	22.22	24.00
		25	25	22.18	22.40	22.09	24.00
		50	0	22.28	22.44	22.19	24.00
	16QAM	1	0	22.09	22.49	22.16	24.00
		1	25	22.30	22.31	22.11	24.00
		1	49	22.41	22.50	22.17	24.00



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		25	0	21.34	21.38	21.35	23.00
		25	13	21.34	21.39	21.16	23.00
		25	25	21.09	21.55	21.28	23.00
		50	0	21.16	21.17	21.22	23.00
	64QAM	1	0	21.31	21.50	21.07	23.00
		1	25	21.07	21.47	21.11	23.00
		1	49	21.43	21.43	21.09	23.00
		25	0	20.42	20.50	20.09	22.00
		25	13	20.72	20.53	20.13	22.00
		25	25	20.27	20.42	20.17	22.00
		50	0	20.33	20.49	20.08	22.00
	256QAM	1	0	19.36	19.51	19.08	21.00
		1	25	19.12	19.56	19.15	21.00
		1	49	19.44	19.52	19.15	21.00
		25	0	18.43	18.59	18.16	20.00
		25	13	18.74	18.53	18.24	20.00
		25	25	18.36	18.42	18.25	20.00
		50	0	18.41	18.53	18.12	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42165	42590	43015	
15MHz	QPSK	1	0	22.74	22.92	22.76	24.00
		1	38	22.66	22.82	22.68	24.00
		1	74	22.70	22.90	22.70	24.00
		36	0	22.29	22.46	22.08	24.00
		36	18	22.21	22.47	22.15	24.00
		36	39	22.22	22.44	22.02	24.00
		75	0	22.23	22.40	22.16	24.00
	16QAM	1	0	22.13	22.49	22.19	24.00
		1	38	22.32	22.23	22.17	24.00
		1	74	22.40	22.46	22.16	24.00
		36	0	21.39	21.43	21.05	23.00
		36	18	21.33	21.36	21.21	23.00
		36	39	21.11	21.49	21.16	23.00
		75	0	21.24	21.28	21.50	23.00
	64QAM	1	0	21.37	21.44	21.11	23.00
		1	38	21.24	21.52	21.19	23.00
		1	74	21.15	21.11	21.25	23.00
		36	0	20.34	20.39	20.06	22.00
		36	18	20.10	20.46	20.12	22.00
		36	39	20.33	20.47	20.20	22.00
		75	0	20.41	20.53	20.03	22.00



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		1	0	19.42	19.53	19.11	21.00
		1	38	19.31	19.52	19.23	21.00
		1	74	19.11	19.11	19.28	21.00
	256QAM	36	0	18.38	18.50	18.12	20.00
		36	18	18.19	18.54	18.23	20.00
		36	39	18.32	18.49	18.26	20.00
		75	0	18.50	18.59	18.06	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				42190	42590	42990	
20MHz	QPSK	1	0	22.72	22.96	22.75	24.00
		1	50	22.71	22.85	22.72	24.00
		1	99	22.67	22.91	22.76	24.00
		50	0	22.69	22.81	22.43	24.00
		50	25	22.47	22.84	22.49	24.00
		50	50	22.54	22.76	22.45	24.00
		100	0	22.61	22.73	22.51	24.00
	16QAM	1	0	22.45	22.87	22.52	24.00
		1	50	22.62	22.67	22.45	24.00
		1	99	22.74	22.79	22.51	24.00
		50	0	21.65	21.80	21.38	23.00
		50	25	21.67	21.70	21.49	23.00
		50	50	21.49	21.90	21.53	23.00
		100	0	21.49	21.34	21.34	23.00
	64QAM	1	0	21.71	21.75	21.44	23.00
		1	50	21.39	21.82	21.54	23.00
		1	99	21.67	21.44	21.55	23.00
		50	0	20.72	20.83	20.41	22.00
		50	25	20.43	20.81	20.51	22.00
		50	50	20.62	20.80	20.51	22.00
		100	0	20.75	20.82	20.37	22.00
	256QAM	1	0	19.76	19.86	19.53	21.00
		1	50	19.52	19.86	19.59	21.00
		1	99	19.71	19.48	19.55	21.00
		50	0	18.71	18.85	18.50	20.00
		50	25	18.48	18.81	18.58	20.00
		50	50	18.71	18.84	18.62	20.00
		100	0	18.78	18.91	18.50	20.00



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CA List	PCC							SCC1				SCC2				SCC3				SCC4				Power	
	LTE	BW	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA	
	Band	(MHz)	Freq.		RB	RB	Band	(MHz)	Freq.	Channel	Band	(MHz)	Freq.	Channel	Band	(MHz)	Freq.	Channel	Band	(MHz)	Freq.	Channel	Tx. Power	Tx. Power	
			(MHz)			Offset			(MHz)				(MHz)				(MHz)				(MHz)				(MHz)
CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620													22.97	23.18
CA_7B	Band 7	15M	2535	21100	QPSK	1	0	Band 7	5M	2664.3	3193													23.56	23.79
CA_7B	Band 7	15M	2535	21100	QPSK	1	0	Band 7	5M	2664.3	3193													23.66	23.84
CA_5A-5A	Band 5	10M	836.5	20525	QPSK	1	0	Band 5	5M	891.5	2625													22.96	23.18
CA_2A-2A-7A	Band 2	20M	1860	18700	QPSK	1	0	Band 2	5M	1987.5	1175	Band 7	20M	2655	3100									23.38	23.65
CA_2A-2A-7A	Band 2	20M	1860	18700	QPSK	1	0	Band 2	5M	1987.5	1175	Band 7	20M	2655	3100									23.49	23.67
CA_26A-41C	Band 26	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	Band 41	20M	2612.8	2791									23.2	23.4
CA_2C-5A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.8	1098	Band 5	10M	881.5	2525									23.4	23.67
CA_4A-4A-7A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 7	20M	2655	3100									23.65	23.85
CA_5A-7A-7A	Band 5	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425									22.99	23.18
CA_7A-7A-26A	Band 7	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 26	15M	876.5	8865									23.54	23.79
CA_7A-7A-26A	Band 7	20M	2535	21100	QPSK	1	0	Band 7	5M	2687.5	3425	Band 26	15M	876.5	8865									23.58	23.84
CA_2A-7A-26A	Band 2	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 26	15M	876.5	8865									23.45	23.65
CA_2A-7A-26A	Band 2	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 26	15M	876.5	8865									23.44	23.67
CA_41E	Band 41	20M	2593	40620	QPSK	1	0	Band 41	5M	2687.5	41565	Band 41	20M	2675.8	41448	Band 41	20M	2664.1	41331					24.06	24.31
CA_4A-4A-5B	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 5	10M	881.5	2525	Band 5	10M	891.4	2624					23.66	23.85
CA_2A-5A-7C	Band 2	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298					23.45	23.65
CA_2A-5A-7C	Band 2	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298					23.43	23.67
CA_2A-2A-4A-4A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375					23.45	23.65
CA_2A-2A-4A-4A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375					23.43	23.67
CA_2A-2A-4A-5A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525					23.43	23.65
CA_2A-2A-4A-5A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525					23.45	23.67
CA_2A-2A-5B	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	Band 5	10M	891.4	2624					23.42	23.65
CA_2A-2A-5B	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525	Band 5	10M	891.4	2624					23.4	23.67
CA_2A-4A-7A-7A	Band 2	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425					23.45	23.65
CA_2A-4A-7A-7A	Band 2	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425					23.42	23.67
CA_2A-4A-7C	Band 2	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298					23.4	23.65
CA_2A-4A-7C	Band 2	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298					23.47	23.67
CA_2A-4A-4A-5A	Band 2	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375	Band 5	10M	881.5	2525					23.46	23.65
CA_2A-4A-4A-5A	Band 2	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375	Band 5	10M	881.5	2525					23.4	23.67
CA_2A-4A-5B	Band 2	20M	1880	18900	QPSK	1	0	Band 4	5M	2152.5	2375	Band 5	10M	881.5	2525	Band 5	10M	891.4	2624					23.36	23.65
CA_2A-4A-5B	Band 2	20M	1880	18900	QPSK	1	0	Band 4	5M	2152.5	2375	Band 5	10M	881.5	2525	Band 5	10M	891.4	2624					23.43	23.67
41A-42C-42C	Band 41	20M	2593	40620	QPSK	1	0	Band 42	20M	4238	42190	Band 42	20M	4257.8	42388	Band 42	20M	4455.8	42407.8	Band 42	5M	43115	3552.5	24.21	24.31
CA_41C-41D	Band 41	20M	2506	39750	QPSK	1	0	Band 41	20M	2525.8	39948	Band 41	5M	2537.5	40145	Band 41	20M	2557.3	40343	Band 41	20M	2755.3	40541	24.06	24.31
CA_41C-42A-42C	Band 41	20M	2506	39750	QPSK	1	0	Band 41	20M	2525.8	39948	Band 42	20M	4238	42190	Band 42	20M	4436	42209.8	Band 42	5M	43115	3552.5	24.14	24.31



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CA_5B Full Power Ant 0										
Combination 10MHz+5MHz (50RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	0	0	0	1	0	23.11	25.00
20525	20426	QPSK	1	0	1	49	2	0	23.31	25.00
20600	20501	QPSK	1	0	1	49	2	0	23.01	25.00

CA_5B For ENDC Ant 0										
Combination 10MHz+5MHz (50RB+25RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20450	20549	QPSK	1	0	0	0	1	0	21.22	23.00
20525	20426	QPSK	1	0	1	49	2	0	21.43	23.00
20600	20501	QPSK	1	0	1	49	2	0	21.26	23.00

CA_7C Full Power Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	23.44	25.00
21100	20902	QPSK	1	0	1	99	2	0	23.66	25.00
21350	21152	QPSK	1	0	1	99	2	0	23.38	25.00

CA_7C SA Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	16.09	17.50
21100	20902	QPSK	1	0	1	99	2	0	16.34	17.50
21350	21152	QPSK	1	0	1	99	2	0	16.13	17.50

CA_7C For ENDC Ant 0										
Combination 20MHz+20MHz (100RB+100RB)										



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PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	14.14	15.00
21100	20902	QPSK	1	0	1	99	2	0	14.41	15.00
21350	21152	QPSK	1	0	1	99	2	0	14.14	15.00

CA_7C Full Power Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	23.73	25.00
21100	20902	QPSK	1	0	1	99	2	0	23.75	25.00
21350	21152	QPSK	1	0	1	99	2	0	23.42	25.00

CA_7C SA Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	17.31	18.50
21100	20902	QPSK	1	0	1	99	2	0	17.42	18.50
21350	21152	QPSK	1	0	1	99	2	0	17.30	18.50

CA_7C For ENDC Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	15.03	16.00
21100	20902	QPSK	1	0	1	99	2	0	15.23	16.00
21350	21152	QPSK	1	0	1	99	2	0	15.11	16.00

CA_41C Full Power										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				



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39750	39948	QPSK	1	0	0	0	1	0	23.76	25.00
40185	39987	QPSK	1	0	1	99	2	0	23.68	25.00
40620	40422	QPSK	1	0	1	99	2	0	24.18	25.00
41055	40857	QPSK	1	0	1	99	2	0	23.80	25.00
41490	41292	QPSK	1	0	1	99	2	0	23.67	25.00

CA_41C SA Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	21.11	22.00
40185	39987	QPSK	1	0	1	99	2	0	21.09	22.00
40620	40422	QPSK	1	0	1	99	2	0	21.22	22.00
41055	40857	QPSK	1	0	1	99	2	0	21.12	22.00
41490	41292	QPSK	1	0	1	99	2	0	21.11	22.00

CA_41C For ENDC Ant 1										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	19.31	20.00
40185	39987	QPSK	1	0	1	99	2	0	19.29	20.00
40620	40422	QPSK	1	0	1	99	2	0	19.34	20.00
41055	40857	QPSK	1	0	1	99	2	0	19.19	20.00
41490	41292	QPSK	1	0	1	99	2	0	19.16	20.00

CA_42C Full Power										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	0	0	0	1	0	23.43	25.00
42590	42392	QPSK	1	0	0	0	1	0	23.52	25.00
42990	42792	QPSK	1	0	1	99	2	0	23.41	25.00

CA_42C For ENDC Ant 1										
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Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	0	0	0	1	0	22.67	24.00
42590	42392	QPSK	1	0	0	0	1	0	22.89	24.00
42990	42792	QPSK	1	0	1	99	2	0	22.68	24.00

CA_42C Full Power										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
42190	42388	QPSK	1	0	0	0	1	0	23.51	25.00
42590	42392	QPSK	1	0	0	0	1	0	23.75	25.00
42990	42792	QPSK	1	0	1	99	2	0	23.67	25.00



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7.1.2 Conducted Power of NR

N41 Ant1 Sensor off SA&NSA				Conducted Power(dBm)					
SCS 30kHz									
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
				2546.01	2569.5	2592.99	2616.51	2640	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	23.35	23.61	23.68	23.72	23.68	25.00
		1	137	23.44	23.64	23.60	23.55	23.54	25.00
		1	271	23.62	23.41	23.51	23.43	23.43	25.00
		135	0	22.24	22.65	22.73	22.75	22.59	24.00
		135	69	23.46	23.66	23.69	23.65	23.59	25.00
		135	138	22.64	22.46	22.56	22.55	22.49	24.00
		270	0	22.49	22.58	22.66	22.62	22.42	24.00
	DFT-s-OFDM QPSK	1	1	23.56	23.51	23.40	23.65	23.65	25.00
		1	137	23.72	23.73	23.75	23.80	23.70	25.00
		1	271	23.71	23.42	23.58	23.49	23.45	25.00
		135	0	22.26	22.71	22.83	22.76	22.65	24.00
		135	69	23.55	23.72	23.73	23.66	23.66	25.00
		135	138	22.71	22.54	22.56	22.63	22.58	24.00
		270	0	22.51	22.64	22.76	22.71	22.45	24.00
	DFT-s-OFDM 16QAM	1	1	22.10	22.66	22.79	22.75	22.54	24.00
	DFT-s-OFDM 64QAM	1	1	21.02	21.01	21.29	21.36	21.36	22.50
	DFT-s-OFDM 256QAM	1	1	19.10	19.07	19.20	19.27	19.28	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	CP-OFDM QPSK	1	1	21.42	22.09	22.30	22.23	22.31	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				508200	513402	518598	523800	528996	
90MHz	DFT-s-OFDM QPSK	1	1	23.51	23.59	23.58	23.54	23.51	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				507204	512904	518598	524298	529998	
80MHz	DFT-s-OFDM QPSK	1	1	23.43	23.60	23.58	23.55	23.55	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				505200	511902	518598	525300	531996	
60MHz	DFT-s-OFDM QPSK	1	1	23.49	23.64	23.59	23.58	23.51	25.00



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				504204	511404	518598	525798	532998	
50MHz	DFT-s-OFDM QPSK	1	1	23.46	23.66	23.56	23.61	23.57	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				503202	510900	518598	526302	534000	
40MHz	DFT-s-OFDM QPSK	1	1	23.44	23.61	23.54	23.52	23.52	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				502200	510402	518598	526800	534996	
30MHz	DFT-s-OFDM QPSK	1	1	23.52	23.63	23.55	23.57	23.50	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				501204	509904	518598	527298	535998	
20MHz	DFT-s-OFDM QPSK	1	1	23.43	23.64	23.57	23.52	23.52	25.00

N41 Ant1 Sensor on SA				Conducted Power(dBm)					
SCS 30kHz									
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
				2546.01	2569.5	2592.99	2616.51	2640	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	18.51	18.71	18.88	18.97	19.08	20.50
		1	137	19.08	18.99	19.10	18.86	19.13	20.50
		1	271	19.20	18.97	19.16	18.95	19.05	20.50
		135	0	18.53	18.93	19.01	19.03	18.97	20.50
		135	69	18.80	19.04	19.03	19.06	19.16	20.50
		135	138	19.06	19.09	19.00	19.08	19.03	20.50
		270	0	18.80	18.97	18.88	19.05	19.03	20.50
	DFT-s-OFDM QPSK	1	1	18.51	18.70	18.85	18.93	19.13	20.50
		1	137	19.05	18.96	19.06	19.25	19.12	20.50
		1	271	19.00	18.94	19.10	18.93	19.01	20.50
		135	0	19.10	18.91	18.97	19.01	18.95	20.50
		135	69	18.76	19.01	19.00	19.20	19.11	20.50
		135	138	19.05	19.03	18.98	19.07	18.97	20.50
		270	0	18.78	18.96	18.86	19.02	19.01	20.50
	DFT-s-OFDM 16QAM	1	1	18.50	18.52	18.72	18.92	19.02	20.50
	DFT-s-OFDM 64QAM	1	1	18.51	18.82	18.89	18.87	19.05	20.50
	DFT-s-OFDM 256QAM	1	1	18.52	18.81	18.78	18.80	18.87	20.50



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	CP-OFDM QPSK	1	1	18.65	18.65	19.03	19.00	19.03	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				508200	513402	518598	523800	528996	
90MHz	DFT-s-OFDM QPSK	1	1	18.50	18.72	18.85	18.94	19.07	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				507204	512904	518598	524298	529998	
80MHz	DFT-s-OFDM QPSK	1	1	18.51	18.69	18.74	18.81	19.13	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				505200	511902	518598	525300	531996	
60MHz	DFT-s-OFDM QPSK	1	1	18.50	18.73	18.78	18.73	19.01	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				504204	511404	518598	525798	532998	
50MHz	DFT-s-OFDM QPSK	1	1	18.52	18.66	18.76	18.78	19.02	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				503202	510900	518598	526302	534000	
40MHz	DFT-s-OFDM QPSK	1	1	18.54	18.53	18.83	18.73	19.03	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				502200	510402	518598	526800	534996	
30MHz	DFT-s-OFDM QPSK	1	1	18.53	18.52	18.77	18.77	19.01	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				501204	509904	518598	527298	535998	
20MHz	DFT-s-OFDM QPSK	1	1	18.54	18.66	18.75	18.85	19.02	20.50

N41 Ant1 Sensor on NSA				Conducted Power(dBm)					
SCS 30kHz									
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
				2546.01	2569.5	2592.99	2616.51	2640	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	15.54	15.78	15.84	16.01	16.19	17.50
		1	137	16.17	16.07	16.00	15.92	16.14	17.50
		1	271	16.33	16.07	16.02	16.03	16.21	17.50
		135	0	15.62	15.82	16.04	16.15	16.04	17.50



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		135	69	15.92	15.94	15.94	16.07	16.20	17.50
		135	138	16.17	16.15	15.96	16.16	16.05	17.50
		270	0	15.84	16.12	15.96	16.15	16.07	17.50
	DFT-s-OFDM QPSK	1	1	15.55	15.74	15.80	16.00	16.17	17.50
		1	137	16.14	16.06	15.95	16.25	16.08	17.50
		1	271	16.16	16.01	16.00	16.01	16.16	17.50
		135	0	15.59	15.81	16.00	16.10	16.03	17.50
		135	69	15.87	15.93	15.93	16.20	16.15	17.50
		135	138	16.16	16.14	15.91	16.10	16.01	17.50
		270	0	15.78	16.07	15.90	16.11	16.04	17.50
	DFT-s-OFDM 16QAM	1	1	15.65	15.55	15.82	16.00	16.12	17.50
	DFT-s-OFDM 64QAM	1	1	15.51	15.76	16.00	15.93	16.12	17.50
	DFT-s-OFDM 256QAM	1	1	15.53	15.69	15.87	15.89	15.94	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				509202	513900	518598	523302	528000	
100MHz	CP-OFDM QPSK	1	1	15.71	15.88	15.75	15.87	15.92	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				508200	513402	518598	523800	528996	
90MHz	DFT-s-OFDM QPSK	1	1	15.51	15.58	15.74	15.97	16.15	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				507204	512904	518598	524298	529998	
80MHz	DFT-s-OFDM QPSK	1	1	15.50	15.65	15.68	15.87	16.10	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				505200	511902	518598	525300	531996	
60MHz	DFT-s-OFDM QPSK	1	1	15.50	15.68	15.64	15.91	16.12	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				504204	511404	518598	525798	532998	
50MHz	DFT-s-OFDM QPSK	1	1	15.52	15.59	15.75	16.03	16.12	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				503202	510900	518598	526302	534000	
40MHz	DFT-s-OFDM QPSK	1	1	15.53	15.70	15.83	15.85	16.10	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				502200	510402	518598	526800	534996	



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30MHz	DFT-s-OFDM QPSK	1	1	15.51	15.75	15.71	15.98	16.10	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Channel	Channel	Tune up
				501204	509904	518598	527298	535998	
20MHz	DFT-s-OFDM QPSK	1	1	15.53	15.69	15.81	15.85	16.19	17.50

N77 Ant 4				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	23.24	/	24.50
		1	137	/	23.43	/	24.50
		1	271	/	23.48	/	24.50
		135	0	/	23.36	/	24.50
		135	69	/	23.52	/	24.50
		135	138	/	23.45	/	24.50
		270	0	/	23.30	/	24.50
	DFT-s-OFDM QPSK	1	1	/	23.34	/	24.50
		1	137	/	23.64	/	24.50
		1	271	/	23.60	/	24.50
		135	0	/	23.51	/	24.50
		135	69	/	23.75	/	24.50
		135	138	/	23.56	/	24.50
		270	0	/	23.49	/	24.50
	DFT-s-OFDM 16QAM	1	1	/	22.54	/	23.50
	DFT-s-OFDM 64QAM	1	1	/	20.44	/	22.00
	DFT-s-OFDM 256QAM	1	1	/	18.76	/	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	21.58	/	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	23.40	23.52	23.46	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	23.45	23.52	23.52	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	



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70MHz	DFT-s-OFDM QPSK	1	1	23.46	23.52	23.35	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 632000	Channel 633334	Channel 634668	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	23.53	23.40	23.46	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 631668	Channel 633334	Channel 635000	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	23.55	23.49	23.40	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 631334	Channel 633334	Channel 635334	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	23.46	23.42	23.46	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 630668	Channel 633334	Channel 636000	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	23.47	23.45	23.41	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 630500	Channel 633334	Channel 636168	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	23.51	23.45	23.47	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 630334	Channel 633334	Channel 636334	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	23.45	23.50	23.38	24.50

N77 Ant 4				Conducted Power(dBm)			
SCS 30kHz(3700~3980)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				650000	656000	662000	
				3750.00	3840.00	3930.00	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	23.09	23.35	23.04	24.50
		1	137	23.06	23.28	23.10	24.50
		1	271	23.04	23.15	23.05	24.50
		135	0	23.11	23.42	23.06	24.50
		135	69	23.40	23.72	23.01	24.50
		135	138	23.07	23.21	23.09	24.50
		270	0	23.02	23.31	23.05	24.50
	DFT-s-OFDM QPSK	1	1	23.17	23.41	23.15	24.50
		1	137	23.18	23.22	23.03	24.50
		1	271	23.08	23.14	23.10	24.50
		135	0	23.19	23.47	23.08	24.50
		135	69	23.51	23.75	23.19	24.50
		135	138	23.09	23.24	23.05	24.50
		270	0	23.03	23.33	23.02	24.50



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	DFT-s-OFDM 16QAM	1	1	22.19	22.32	22.39	23.50
	DFT-s-OFDM 64QAM	1	1	20.89	20.83	20.77	22.00
	DFT-s-OFDM 256QAM	1	1	19.05	19.04	19.10	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 656000	Channel 662000	Tune up
100MHz	CP-OFDM QPSK	1	1	20.86	20.80	20.74	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 649668	Channel 656000	Channel 662332	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	23.13	23.50	23.12	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 649334	Channel 656000	Channel 662666	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	23.15	23.45	23.07	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 649000	Channel 656000	Channel 663000	Tune up
70MHz	DFT-s-OFDM QPSK	1	1	23.09	23.36	23.17	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 648668	Channel 656000	Channel 663332	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	23.17	23.39	23.02	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 648334	Channel 660600	Channel 663666	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	23.09	23.41	23.13	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 648000	Channel 656000	Channel 664000	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	23.14	23.49	23.12	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 647334	Channel 656000	Channel 664666	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	23.12	23.48	23.05	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 646668	Channel 656000	Channel 665332	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	23.10	23.47	23.14	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 646000	Channel 656000	Channel 666000	Tune up



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10MHz	DFT-s-OFDM QPSK	1	1	23.13	23.47	23.09	24.50
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N78 Ant 4				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	23.39	/	25.00
		1	137	/	23.58	/	25.00
		1	271	/	23.50	/	25.00
		135	0	/	23.39	/	25.00
		135	69	/	23.51	/	25.00
		135	138	/	23.58	/	25.00
		270	0	/	23.50	/	25.00
	DFT-s-OFDM QPSK	1	1	/	23.37	/	25.00
		1	137	/	23.57	/	25.00
		1	271	/	23.75	/	25.00
		135	0	/	23.43	/	25.00
		135	69	/	23.80	/	25.00
		135	138	/	23.47	/	25.00
		270	0	/	23.48	/	25.00
	DFT-s-OFDM 16QAM	1	1	/	22.75	/	24.00
	DFT-s-OFDM 64QAM	1	1	/	21.65	/	22.50
	DFT-s-OFDM 256QAM	1	1	/	19.37	/	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1		22.30		22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	23.37	23.14	23.16	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	23.35	23.15	23.09	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	23.15	23.23	23.40	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	



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60MHz	DFT-s-OFDM QPSK	1	1	23.29	23.06	23.16	25.00
Bandwidth	Modulation	RB size	RB offset	Channel 631668	Channel 633334	Channel 635000	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	23.26	23.03	23.25	25.00
Bandwidth	Modulation	RB size	RB offset	Channel 631334	Channel 633334	Channel 635334	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	23.65	23.29	23.32	25.00
Bandwidth	Modulation	RB size	RB offset	Channel 631000	Channel 633334	Channel 635668	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	23.59	23.23	23.26	25.00
Bandwidth	Modulation	RB size	RB offset	Channel 630668	Channel 633334	Channel 636000	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	23.28	23.05	23.14	25.00
Bandwidth	Modulation	RB size	RB offset	Channel 630500	Channel 633334	Channel 636168	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	23.43	23.16	23.19	25.00
Bandwidth	Modulation	RB size	RB offset	Channel 630334	Channel 633334	Channel 636334	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	23.36	23.14	23.35	25.00

N78 Ant 4				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
				/	3750.00	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	23.32	/	25.00
		1	137	/	23.49	/	25.00
		1	271	/	23.55	/	25.00
		135	0	/	23.37	/	25.00
		135	69	/	23.51	/	25.00
		135	138	/	23.42	/	25.00
		270	0	/	23.43	/	25.00
	DFT-s-OFDM QPSK	1	1	/	23.35	/	25.00
		1	137	/	23.65	/	25.00
		1	271	/	23.70	/	25.00
		135	0	/	23.47	/	25.00
		135	69	/	23.75	/	25.00
		135	138	/	23.44	/	25.00
		270	0	/	23.55	/	25.00



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	DFT-s-OFDM 16QAM	1	1	/	22.74	/	24.00
	DFT-s-OFDM 64QAM	1	1	/	21.74	/	22.50
	DFT-s-OFDM 256QAM	1	1	/	19.45	/	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1	/	22.25	/	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	23.30	23.26	23.12	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	23.33	23.19	23.12	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	23.23	23.24	23.34	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	
60MHz	DFT-s-OFDM QPSK	1	1	23.34	23.15	23.05	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	23.38	23.10	23.32	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	23.58	23.24	23.25	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	23.57	23.25	23.24	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	23.35	23.06	23.19	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647168	650000	652834	



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15MHz	DFT-s-OFDM QPSK	1	1	23.41	23.10	23.30	25.00
Bandwidth	Modulation	RB size	RB offset	Channel 647000	Channel 650000	Channel 653000	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	23.28	23.09	23.32	25.00

N77 Ant 6				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	23.21	/	24.50
		1	137	/	23.39	/	24.50
		1	271	/	23.44	/	24.50
		135	0	/	23.35	/	24.50
		135	69	/	23.48	/	24.50
		135	138	/	23.43	/	24.50
		270	0	/	23.29	/	24.50
	DFT-s-OFDM QPSK	1	1	/	23.35	/	24.50
		1	137	/	23.63	/	24.50
		1	271	/	23.55	/	24.50
		135	0	/	23.50	/	24.50
		135	69	/	23.71	/	24.50
		135	138	/	23.55	/	24.50
		270	0	/	23.48	/	24.50
	DFT-s-OFDM 16QAM	1	1	/	22.54	/	23.50
	DFT-s-OFDM 64QAM	1	1	/	20.43	/	22.00
	DFT-s-OFDM 256QAM	1	1	/	18.75	/	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	21.56	/	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	23.38	23.47	23.44	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	23.44	23.49	23.47	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	



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70MHz	DFT-s-OFDM QPSK	1	1	23.44	23.49	23.34	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	23.50	23.37	23.42	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	23.50	23.44	23.36	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	23.41	23.39	23.46	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	23.45	23.42	23.41	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630500	633334	636168	
15MHz	DFT-s-OFDM QPSK	1	1	23.46	23.40	23.44	24.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630334	633334	636334	
10MHz	DFT-s-OFDM QPSK	1	1	23.42	23.47	23.38	24.50

N77 Ant 6				Conducted Power(dBm)			
SCS 30kHz(3700~3980)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				650000	656000	662000	
				3750.00	3840.00	3930.00	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	23.07	23.32	23.00	24.50
		1	137	23.04	23.27	23.08	24.50
		1	271	23.00	23.12	23.01	24.50
		135	0	23.08	23.42	23.02	24.50
		135	69	23.37	23.70	23.04	24.50
		135	138	23.04	23.18	23.07	24.50
		270	0	23.01	23.26	23.00	24.50
	DFT-s-OFDM QPSK	1	1	23.15	23.36	23.04	24.50
		1	137	23.13	23.20	23.02	24.50
		1	271	23.04	23.12	23.01	24.50
		135	0	23.18	23.42	23.00	24.50
		135	69	23.46	23.75	23.13	24.50
		135	138	23.04	23.21	23.04	24.50
		270	0	23.03	23.30	23.05	24.50



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	DFT-s-OFDM 16QAM	1	1	22.15	22.28	22.26	23.50
	DFT-s-OFDM 64QAM	1	1	20.84	20.78	21.13	22.00
	DFT-s-OFDM 256QAM	1	1	19.02	19.02	18.96	20.00
Bandwidth	Modulation	RB size	RB offset	Channel 650000	Channel 656000	Channel 662000	Tune up
100MHz	CP-OFDM QPSK	1	1	20.81	20.75	21.10	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 649668	Channel 656000	Channel 662332	Tune up
90MHz	DFT-s-OFDM QPSK	1	1	23.11	23.47	23.09	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 649334	Channel 656000	Channel 662666	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	23.10	23.41	23.03	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 649000	Channel 656000	Channel 663000	Tune up
70MHz	DFT-s-OFDM QPSK	1	1	23.07	23.35	23.13	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 648668	Channel 656000	Channel 663332	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	23.12	23.38	23.02	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 648334	Channel 660600	Channel 663666	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	23.05	23.39	23.10	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 648000	Channel 656000	Channel 664000	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	23.13	23.47	23.12	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 647334	Channel 656000	Channel 664666	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	23.08	23.48	23.04	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 646668	Channel 656000	Channel 665332	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	23.09	23.43	23.12	24.50
Bandwidth	Modulation	RB size	RB offset	Channel 646000	Channel 656000	Channel 666000	Tune up



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10MHz	DFT-s-OFDM QPSK	1	1	23.08	23.46	23.08	24.50
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N78 Ant 6				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	23.81	/	25.00
		1	137	/	24.07	/	25.00
		1	271	/	24.05	/	25.00
		135	0	/	23.93	/	25.00
		135	69	/	24.05	/	25.00
		135	138	/	23.99	/	25.00
		270	0	/	23.98	/	25.00
	DFT-s-OFDM QPSK	1	1	/	23.91	/	25.00
		1	137	/	24.11	/	25.00
		1	271	/	24.15	/	25.00
		135	0	/	23.97	/	25.00
		135	69	/	24.10	/	25.00
		135	138	/	24.02	/	25.00
		270	0	/	24.03	/	25.00
	DFT-s-OFDM 16QAM	1	1	/	23.23	/	24.00
	DFT-s-OFDM 64QAM	1	1	/	22.19	/	22.50
	DFT-s-OFDM 256QAM	1	1	/	19.88	/	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1		22.12		22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	23.84	23.68	23.70	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	23.77	23.65	23.58	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	23.69	23.69	23.82	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	



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60MHz	DFT-s-OFDM QPSK	1	1	23.79	23.61	23.61	25.00
Bandwidth	Modulation	RB size	RB offset	Channel 631668	Channel 633334	Channel 635000	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	23.78	23.55	23.73	25.00
Bandwidth	Modulation	RB size	RB offset	Channel 631334	Channel 633334	Channel 635334	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	24.05	23.70	23.72	25.00
Bandwidth	Modulation	RB size	RB offset	Channel 631000	Channel 633334	Channel 635668	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	24.04	23.75	23.70	25.00
Bandwidth	Modulation	RB size	RB offset	Channel 630668	Channel 633334	Channel 636000	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	23.75	23.54	23.66	25.00
Bandwidth	Modulation	RB size	RB offset	Channel 630500	Channel 633334	Channel 636168	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	23.85	23.56	23.72	25.00
Bandwidth	Modulation	RB size	RB offset	Channel 630334	Channel 633334	Channel 636334	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	23.81	23.60	23.78	25.00

N78 Ant 6				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
				/	3750.00	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	23.79	/	25.00
		1	137	/	24.02	/	25.00
		1	271	/	24.03	/	25.00
		135	0	/	23.91	/	25.00
		135	69	/	24.04	/	25.00
		135	138	/	23.96	/	25.00
		270	0	/	23.95	/	25.00
	DFT-s-OFDM QPSK	1	1	/	23.89	/	25.00
		1	137	/	24.09	/	25.00
		1	271	/	24.11	/	25.00
		135	0	/	23.92	/	25.00
		135	69	/	24.12	/	25.00
		135	138	/	23.99	/	25.00
		270	0	/	23.99	/	25.00



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	DFT-s-OFDM 16QAM	1	1	/	23.19	/	24.00
	DFT-s-OFDM 64QAM	1	1	/	22.17	/	22.50
	DFT-s-OFDM 256QAM	1	1	/	19.86	/	20.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1	/	22.05	/	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	23.79	23.66	23.67	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	23.77	23.64	23.54	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	23.65	23.64	23.80	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	
60MHz	DFT-s-OFDM QPSK	1	1	23.76	23.59	23.57	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	23.78	23.53	23.73	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	24.02	23.65	23.71	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	24.02	23.72	23.70	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	23.75	23.49	23.63	25.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647168	650000	652834	



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15MHz	DFT-s-OFDM QPSK	1	1	23.85	23.51	23.72	25.00
Bandwidth	Modulation	RB size	RB offset	Channel 647000	Channel 650000	Channel 653000	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	23.80	23.56	23.76	25.00



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N77 Ant 4 Sensor On SA				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	19.97	/	21.50
		1	137	/	20.05	/	21.50
		1	271	/	20.07	/	21.50
		135	0	/	19.99	/	21.50
		135	69	/	20.07	/	21.50
		135	138	/	20.00	/	21.50
		270	0	/	20.16	/	21.50
	DFT-s-OFDM QPSK	1	1	/	19.98	/	21.50
		1	137	/	20.29	/	21.50
		1	271	/	20.15	/	21.50
		135	0	/	20.29	/	21.50
		135	69	/	20.34	/	21.50
		135	138	/	20.06	/	21.50
		270	0	/	20.07	/	21.50
	DFT-s-OFDM 16QAM	1	1	/	19.26	/	20.50
	DFT-s-OFDM 64QAM	1	1	/	18.49	/	19.00
	DFT-s-OFDM 256QAM	1	1	/	16.80	/	17.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	18.44	/	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	20.12	20.24	20.19	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	20.15	20.26	20.20	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	20.10	20.28	20.16	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	20.15	20.24	20.20	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	



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50MHz	DFT-s-OFDM QPSK	1	1	20.13	20.31	20.12	21.50
Bandwidth	Modulation	RB size	RB offset	Channel 631334	Channel 633334	Channel 635334	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	20.10	20.24	20.16	21.50
Bandwidth	Modulation	RB size	RB offset	Channel 630668	Channel 633334	Channel 636000	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	20.12	20.31	20.21	21.50
Bandwidth	Modulation	RB size	RB offset	Channel 630500	Channel 633334	Channel 636168	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	20.15	20.22	20.15	21.50
Bandwidth	Modulation	RB size	RB offset	Channel 630334	Channel 633334	Channel 636334	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	20.12	20.23	20.19	21.50

N77 Ant 4 Sensor On SA				Conducted Power(dBm)			
SCS 30kHz(3700~3980)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				650000	656000	662000	
				3750.00	3840.00	3930.00	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	20.02	20.10	19.74	21.50
		1	137	19.97	20.02	19.77	21.50
		1	271	20.05	19.88	19.81	21.50
		135	0	20.10	20.11	19.81	21.50
		135	69	20.27	20.34	19.70	21.50
		135	138	20.07	19.88	19.78	21.50
		270	0	19.96	20.00	19.72	21.50
	DFT-s-OFDM QPSK	1	1	20.01	20.17	19.72	21.50
		1	137	20.13	20.00	19.76	21.50
		1	271	20.06	19.84	19.83	21.50
		135	0	20.11	20.16	19.74	21.50
		135	69	20.24	20.42	19.82	21.50
		135	138	19.96	19.94	19.78	21.50
		270	0	20.14	20.15	19.76	21.50
	DFT-s-OFDM 16QAM	1	1	18.95	19.04	18.99	20.50
	DFT-s-OFDM 64QAM	1	1	17.19	17.62	17.88	19.00
	DFT-s-OFDM 256QAM	1	1	15.40	15.80	15.65	17.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				650000	656000	662000	



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Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	656000	662332	
90MHz	DFT-s-OFDM QPSK	1	1	20.11	20.28	20.01	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	656000	662666	
80MHz	DFT-s-OFDM QPSK	1	1	20.12	20.21	20.00	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	656000	663000	
70MHz	DFT-s-OFDM QPSK	1	1	20.01	20.18	20.02	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	656000	663332	
60MHz	DFT-s-OFDM QPSK	1	1	20.02	20.29	20.03	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	660600	663666	
50MHz	DFT-s-OFDM QPSK	1	1	20.12	20.24	20.07	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	656000	664000	
40MHz	DFT-s-OFDM QPSK	1	1	20.13	20.23	20.11	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	656000	664666	
20MHz	DFT-s-OFDM QPSK	1	1	20.05	20.24	20.01	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				646668	656000	665332	
15MHz	DFT-s-OFDM QPSK	1	1	20.02	20.28	20.04	21.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				646000	656000	666000	
10MHz	DFT-s-OFDM QPSK	1	1	20.03	20.16	20.12	21.50

N78 Ant 4 Sensor On SA				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	20.48	/	22.00
		1	137	/	20.56	/	22.00



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		1	271	/	20.57	/	22.00
		135	0	/	20.46	/	22.00
		135	69	/	20.47	/	22.00
		135	138	/	20.63	/	22.00
		270	0	/	20.50	/	22.00
	DFT-s-OFDM QPSK	1	1	/	20.37	/	22.00
		1	137	/	20.75	/	22.00
		1	271	/	20.71	/	22.00
		135	0	/	20.41	/	22.00
		135	69	/	20.81	/	22.00
		135	138	/	20.51	/	22.00
		270	0	/	20.51	/	22.00
	DFT-s-OFDM 16QAM	1	1	/	19.81	/	21.00
	DFT-s-OFDM 64QAM	1	1	/	18.74	/	19.50
	DFT-s-OFDM 256QAM	1	1	/	16.42	/	17.50
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
	100MHz	CP-OFDM QPSK	1	1	/	633334	/
					18.64		19.50
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
	90MHz	DFT-s-OFDM QPSK	1	1	633000	633334	633668
					20.45	20.22	20.20
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
	80MHz	DFT-s-OFDM QPSK	1	1	632668	633334	634000
					20.44	20.10	20.18
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
	70MHz	DFT-s-OFDM QPSK	1	1	632334	633334	634334
					20.45	20.20	20.16
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
	60MHz	DFT-s-OFDM QPSK	1	1	632000	633334	634668
					20.44	20.23	20.25
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
	50MHz	DFT-s-OFDM QPSK	1	1	631668	633334	635000
					20.33	20.12	20.20
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
	40MHz	DFT-s-OFDM QPSK	1	1	631334	633334	635334
					20.41	20.23	20.25



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Bandwidth	Modulation	RB size	RB offset	Channel 631000	Channel 633334	Channel 635668	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	20.39	20.21	20.17	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 630668	Channel 633334	Channel 636000	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	20.45	20.13	20.14	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 630500	Channel 633334	Channel 636168	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	20.45	20.16	20.16	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 630334	Channel 633334	Channel 636334	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	20.36	20.11	20.19	22.00

N78 Ant 4 Sensor On SA				Conducted Power(dBm)				
SCS 30kHz(3700~3800)								
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
				/	650000	/		
				/	3750.00	/		
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	20.34	/	22.00	
		1	137	/	20.57	/	22.00	
		1	271	/	20.62	/	22.00	
		135	0	/	20.46	/	22.00	
		135	69	/	20.53	/	22.00	
		135	138	/	20.40	/	22.00	
		270	0	/	20.52	/	22.00	
	DFT-s-OFDM QPSK	1	1	/	20.42	/	22.00	
		1	137	/	20.70	/	22.00	
		1	271	/	20.73	/	22.00	
		135	0	/	20.44	/	22.00	
		135	69	/	20.77	/	22.00	
		135	138	/	20.46	/	22.00	
		270	0	/	20.52	/	22.00	
	DFT-s-OFDM 16QAM	1	1	/	19.79	/	21.00	
	DFT-s-OFDM 64QAM	1	1	/	18.76	/	19.50	
	DFT-s-OFDM 256QAM	1	1	/	16.52	/	17.50	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
					/	650000	/	
100MHz	CP-OFDM QPSK	1	1	/	18.72	/	19.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	



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				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	20.32	20.26	20.15	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	20.31	20.29	20.18	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	
70MHz	DFT-s-OFDM QPSK	1	1	20.28	20.34	20.14	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	650000	651334	
60MHz	DFT-s-OFDM QPSK	1	1	20.34	20.27	20.14	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	650000	651668	
50MHz	DFT-s-OFDM QPSK	1	1	20.33	20.35	20.11	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	650000	652000	
40MHz	DFT-s-OFDM QPSK	1	1	20.27	20.21	20.12	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647668	650000	652334	
30MHz	DFT-s-OFDM QPSK	1	1	20.35	20.22	20.08	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	650000	652668	
20MHz	DFT-s-OFDM QPSK	1	1	20.26	20.33	20.22	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647168	650000	652834	
15MHz	DFT-s-OFDM QPSK	1	1	20.36	20.32	20.16	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647000	650000	653000	
10MHz	DFT-s-OFDM QPSK	1	1	20.34	20.24	20.21	22.00

N77 Ant 6 Sensor On SA				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500	/	



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100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	21.18	/	22.50
		1	137	/	21.35	/	22.50
		1	271	/	21.41	/	22.50
		135	0	/	21.37	/	22.50
		135	69	/	21.56	/	22.50
		135	138	/	21.46	/	22.50
		270	0	/	21.25	/	22.50
	DFT-s-OFDM QPSK	1	1	/	21.33	/	22.50
		1	137	/	21.63	/	22.50
		1	271	/	21.51	/	22.50
		135	0	/	21.48	/	22.50
		135	69	/	21.70	/	22.50
		135	138	/	21.64	/	22.50
		270	0	/	21.47	/	22.50
	DFT-s-OFDM 16QAM	1	1	/	20.51	/	21.50
	DFT-s-OFDM 64QAM	1	1	/	18.39	/	20.00
	DFT-s-OFDM 256QAM	1	1	/	16.80	/	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	18.32	/	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	21.51	21.44	21.51	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	21.50	21.35	21.52	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	21.51	21.45	21.47	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	21.41	21.35	21.40	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	21.49	21.43	21.49	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	



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Wireless Laboratory

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40MHz	DFT-s-OFDM QPSK	1	1	21.53	21.46	21.44	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 630668	Channel 633334	Channel 636000	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	21.47	21.40	21.43	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 630500	Channel 633334	Channel 636168	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	21.49	21.36	21.42	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 630334	Channel 633334	Channel 636334	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	21.54	21.38	21.43	22.50

N77 Ant 6 Sensor On SA				Conducted Power(dBm)			
SCS 30kHz(3700~3980)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				650000	656000	662000	
				3750.00	3840.00	3930.00	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	21.40	21.61	21.77	22.50
		1	137	21.46	21.65	21.47	22.50
		1	271	21.31	21.38	21.76	22.50
		135	0	21.48	21.76	21.74	22.50
		135	69	21.73	21.97	21.69	22.50
		135	138	21.44	21.61	21.82	22.50
		270	0	21.34	21.60	21.72	22.50
	DFT-s-OFDM QPSK	1	1	21.41	21.69	21.59	22.50
		1	137	21.57	21.50	21.68	22.50
		1	271	21.37	21.47	21.66	22.50
		135	0	21.44	21.82	21.83	22.50
		135	69	21.79	22.10	21.83	22.50
		135	138	21.51	21.60	21.79	22.50
		270	0	21.41	21.65	21.72	22.50
	DFT-s-OFDM 16QAM	1	1	20.49	20.63	20.63	21.50
	DFT-s-OFDM 64QAM	1	1	19.18	19.23	18.81	20.00
	DFT-s-OFDM 256QAM	1	1	17.35	17.36	16.97	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				650000	656000	662000	
100MHz	CP-OFDM QPSK	1	1	19.15	19.20	18.78	20.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	656000	662332	



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90MHz	DFT-s-OFDM QPSK	1	1	21.15	21.40	21.09	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 649334	Channel 656000	Channel 662666	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	21.02	21.29	21.02	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 649000	Channel 656000	Channel 663000	Tune up
70MHz	DFT-s-OFDM QPSK	1	1	21.14	21.35	21.07	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 648668	Channel 656000	Channel 663332	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	21.05	21.33	21.01	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 648334	Channel 660600	Channel 663666	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	21.13	21.37	20.97	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 648000	Channel 656000	Channel 664000	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	21.03	21.32	20.98	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 647334	Channel 656000	Channel 664666	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	21.07	21.39	21.04	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 646668	Channel 656000	Channel 665332	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	21.12	21.35	20.97	22.50
Bandwidth	Modulation	RB size	RB offset	Channel 646000	Channel 656000	Channel 666000	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	21.05	21.36	21.07	22.50

N78 Ant 6 Sensor On SA				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	20.82	/	22.00
		1	137	/	21.16	/	22.00
		1	271	/	21.14	/	22.00
		135	0	/	21.01	/	22.00
		135	69	/	21.01	/	22.00
		135	138	/	21.04	/	22.00



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		270	0	/	21.07	/	22.00
		1	1	/	21.00	/	22.00
		1	137	/	21.19	/	22.00
		1	271	/	21.25	/	22.00
	DFT-s-OFDM QPSK	135	0	/	20.98	/	22.00
		135	69	/	21.27	/	22.00
		135	138	/	21.02	/	22.00
		270	0	/	21.08	/	22.00
	DFT-s-OFDM 16QAM	1	1	/	20.30	/	21.00
	DFT-s-OFDM 64QAM	1	1	/	19.27	/	19.50
	DFT-s-OFDM 256QAM	1	1	/	16.91	/	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1		19.22		19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	20.92	20.72	20.73	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	20.85	20.78	20.80	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	20.83	20.74	20.67	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	20.90	20.74	20.77	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	20.82	20.66	20.73	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	20.83	20.72	20.71	22.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631000	633334	635668	



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30MHz	DFT-s-OFDM QPSK	1	1	20.85	20.65	20.72	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 630668	Channel 633334	Channel 636000	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	20.83	20.75	20.77	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 630500	Channel 633334	Channel 636168	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	20.88	20.65	20.67	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 630334	Channel 633334	Channel 636334	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	20.92	20.70	20.79	22.00

N78 Ant 6 Sensor On SA				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
				/	3750.00	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	20.75	/	22.00
		1	137	/	21.03	/	22.00
		1	271	/	21.08	/	22.00
		135	0	/	21.00	/	22.00
		135	69	/	21.13	/	22.00
		135	138	/	20.98	/	22.00
		270	0	/	20.90	/	22.00
	DFT-s-OFDM QPSK	1	1	/	20.89	/	22.00
		1	137	/	21.05	/	22.00
		1	271	/	21.10	/	22.00
		135	0	/	20.98	/	22.00
		135	69	/	21.15	/	22.00
		135	138	/	21.00	/	22.00
		270	0	/	21.04	/	22.00
	DFT-s-OFDM 16QAM	1	1	/	20.20	/	21.00
	DFT-s-OFDM 64QAM	1	1	/	19.21	/	19.50
	DFT-s-OFDM 256QAM	1	1	/	16.94	/	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1	/	19.14	/	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	



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90MHz	DFT-s-OFDM QPSK	1	1	20.89	20.68	20.67	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 649334	Channel 650000	Channel 650668	Tune up
80MHz	DFT-s-OFDM QPSK	1	1	20.81	20.73	20.74	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 649000	Channel 650000	Channel 651000	Tune up
70MHz	DFT-s-OFDM QPSK	1	1	20.88	20.67	20.68	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 648668	Channel 650000	Channel 651334	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	20.85	20.67	20.67	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 648334	Channel 650000	Channel 651668	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	20.82	20.74	20.77	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 648000	Channel 650000	Channel 652000	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	20.78	20.73	20.72	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 647668	Channel 650000	Channel 652334	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	20.83	20.69	20.76	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 647334	Channel 650000	Channel 652668	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	20.84	20.68	20.69	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 647168	Channel 650000	Channel 652834	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	20.75	20.64	20.74	22.00
Bandwidth	Modulation	RB size	RB offset	Channel 647000	Channel 650000	Channel 653000	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	20.74	20.66	20.72	22.00

N77 Ant 4 Sensor On For ENDC				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500	/	
100MHz		1	1	/	17.05	/	18.50



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	DFT-s-OFDM PI/2 BPSK	1	137	/	17.11	/	18.50
		1	271	/	17.06	/	18.50
		135	0	/	17.05	/	18.50
		135	69	/	17.07	/	18.50
		135	138	/	17.00	/	18.50
		270	0	/	17.11	/	18.50
	DFT-s-OFDM QPSK	1	1	/	17.05	/	18.50
		1	137	/	17.28	/	18.50
		1	271	/	17.20	/	18.50
		135	0	/	17.39	/	18.50
		135	69	/	17.41	/	18.50
		135	138	/	17.02	/	18.50
		270	0	/	17.08	/	18.50
	DFT-s-OFDM 16QAM	1	1	/	16.26	/	17.50
	DFT-s-OFDM 64QAM	1	1	/	15.49	/	16.00
	DFT-s-OFDM 256QAM	1	1	/	13.85	/	14.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	15.45	/	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	17.09	17.27	17.17	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	17.11	17.23	17.21	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	17.12	17.27	17.16	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	17.11	17.29	17.22	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	17.09	17.20	17.19	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	17.11	17.19	17.16	18.50



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Bandwidth	Modulation	RB size	RB offset	Channel 630668	Channel 633334	Channel 636000	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	17.14	17.29	17.20	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 630500	Channel 633334	Channel 636168	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	17.12	17.32	17.17	18.50
Bandwidth	Modulation	RB size	RB offset	Channel 630334	Channel 633334	Channel 636334	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	17.17	17.21	17.26	18.50

N77 Ant 4 Sensor On For END C				Conducted Power(dBm)			
SCS 30kHz(3700~3980)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				650000	656000	662000	
				3750.00	3840.00	3930.00	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	17.03	17.12	16.80	18.50
		1	137	17.05	17.12	16.87	18.50
		1	271	17.02	16.90	16.79	18.50
		135	0	17.05	17.09	16.77	18.50
		135	69	17.24	17.39	16.69	18.50
		135	138	17.04	16.97	16.80	18.50
		270	0	16.95	17.03	16.74	18.50
	DFT-s-OFDM QPSK	1	1	17.10	17.26	16.67	18.50
		1	137	17.21	17.08	16.78	18.50
		1	271	17.12	16.86	16.84	18.50
		135	0	17.13	17.17	16.81	18.50
		135	69	17.33	17.47	16.79	18.50
		135	138	17.05	17.02	16.86	18.50
		270	0	17.13	17.13	16.75	18.50
	DFT-s-OFDM 16QAM	1	1	16.01	16.06	16.08	17.50
	DFT-s-OFDM 64QAM	1	1	14.19	14.61	14.84	16.00
	DFT-s-OFDM 256QAM	1	1	12.49	12.79	12.61	14.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				650000	656000	662000	
100MHz	CP-OFDM QPSK	1	1	14.16	14.58	14.81	16.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	656000	662332	
90MHz	DFT-s-OFDM QPSK	1	1	17.17	17.35	16.97	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	656000	662666	



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80MHz	DFT-s-OFDM QPSK	1	1	17.14	17.23	17.02	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	656000	663000	
70MHz	DFT-s-OFDM QPSK	1	1	17.09	17.24	16.96	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648668	656000	663332	
60MHz	DFT-s-OFDM QPSK	1	1	17.10	17.28	17.02	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648334	660600	663666	
50MHz	DFT-s-OFDM QPSK	1	1	17.21	17.37	17.09	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				648000	656000	664000	
40MHz	DFT-s-OFDM QPSK	1	1	17.08	17.29	17.01	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				647334	656000	664666	
20MHz	DFT-s-OFDM QPSK	1	1	17.10	17.34	17.10	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				646668	656000	665332	
15MHz	DFT-s-OFDM QPSK	1	1	17.10	17.28	17.01	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				646000	656000	666000	
10MHz	DFT-s-OFDM QPSK	1	1	17.20	17.30	16.97	18.50

N78 Ant 4 Sensor On For ENDC				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	17.44	/	19.00
		1	137	/	17.54	/	19.00
		1	271	/	17.62	/	19.00
		135	0	/	17.41	/	19.00
		135	69	/	17.48	/	19.00
		135	138	/	17.70	/	19.00
		270	0	/	17.51	/	19.00
	DFT-s-OFDM QPSK	1	1	/	17.34	/	19.00
		1	137	/	17.80	/	19.00
		1	271	/	17.75	/	19.00



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		135	0	/	17.44	/	19.00
		135	69	/	17.79	/	19.00
		135	138	/	17.54	/	19.00
		270	0	/	17.47	/	19.00
	DFT-s-OFDM 16QAM	1	1	/	16.79	/	18.00
	DFT-s-OFDM 64QAM	1	1	/	15.71	/	16.50
	DFT-s-OFDM 256QAM	1	1	/	13.51	/	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1		15.61		16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	17.55	17.28	17.28	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	17.50	17.30	17.26	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	17.40	17.27	17.22	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	17.54	17.27	17.23	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	17.52	17.25	17.22	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	17.52	17.31	17.24	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631000	633334	635668	
30MHz	DFT-s-OFDM QPSK	1	1	17.53	17.31	17.28	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	



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20MHz	DFT-s-OFDM QPSK	1	1	17.43	17.17	17.20	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 630500	Channel 633334	Channel 636168	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	17.49	17.26	17.25	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 630334	Channel 633334	Channel 636334	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	17.50	17.18	17.28	19.00

N78 Ant 4 Sensor On For ENDC				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
				/	3750.00	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	17.30	/	19.00
		1	137	/	17.59	/	19.00
		1	271	/	17.70	/	19.00
		135	0	/	17.52	/	19.00
		135	69	/	17.59	/	19.00
		135	138	/	17.42	/	19.00
		270	0	/	17.59	/	19.00
	DFT-s-OFDM QPSK	1	1	/	17.44	/	19.00
		1	137	/	17.77	/	19.00
		1	271	/	17.76	/	19.00
		135	0	/	17.43	/	19.00
		135	69	/	17.75	/	19.00
		135	138	/	17.50	/	19.00
		270	0	/	17.54	/	19.00
	DFT-s-OFDM 16QAM	1	1	/	16.83	/	18.00
	DFT-s-OFDM 64QAM	1	1	/	15.78	/	16.50
	DFT-s-OFDM 256QAM	1	1	/	13.49	/	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1	/	15.74	/	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	17.42	17.25	17.16	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	



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80MHz	DFT-s-OFDM QPSK	1	1	17.40	17.25	17.13	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 649000	Channel 650000	Channel 651000	Tune up
70MHz	DFT-s-OFDM QPSK	1	1	17.32	17.33	17.18	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 648668	Channel 650000	Channel 651334	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	17.32	17.31	17.20	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 648334	Channel 650000	Channel 651668	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	17.27	17.24	17.19	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 648000	Channel 650000	Channel 652000	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	17.41	17.23	17.11	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 647668	Channel 650000	Channel 652334	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	17.35	17.26	17.24	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 647334	Channel 650000	Channel 652668	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	17.33	17.35	17.23	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 647168	Channel 650000	Channel 652834	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	17.36	17.24	17.21	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 647000	Channel 650000	Channel 653000	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	17.35	17.30	17.11	19.00

N77 Ant 6 Sensor On For ENDC				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	18.27	/	19.50
		1	137	/	18.43	/	19.50
		1	271	/	18.40	/	19.50
		135	0	/	18.38	/	19.50
		135	69	/	18.59	/	19.50
		135	138	/	18.54	/	19.50



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	DFT-s-OFDM QPSK	270	0	/	18.31	/	19.50
		1	1	/	18.34	/	19.50
		1	137	/	18.66	/	19.50
		1	271	/	18.61	/	19.50
		135	0	/	18.52	/	19.50
		135	69	/	18.67	/	19.50
		135	138	/	18.64	/	19.50
		270	0	/	18.52	/	19.50
	DFT-s-OFDM 16QAM	1	1	/	17.55	/	18.50
	DFT-s-OFDM 64QAM	1	1	/	15.44	/	17.00
	DFT-s-OFDM 256QAM	1	1	/	13.78	/	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1	/	15.40	/	17.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	18.52	18.40	18.53	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	18.50	18.51	18.48	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	18.46	18.45	18.47	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	18.59	18.46	18.59	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	18.57	18.43	18.51	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	18.51	18.40	18.53	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	18.51	18.40	18.53	19.50



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Bandwidth	Modulation	RB size	RB offset	Channel 630500	Channel 633334	Channel 636168	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	18.50	18.50	18.46	19.50
Bandwidth	Modulation	RB size	RB offset	Channel 630334	Channel 633334	Channel 636334	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	18.51	18.44	18.60	19.50

N77 Ant 6 Sensor On For ENDC				Conducted Power(dBm)			
SCS 30kHz(3700~3980)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				650000	656000	662000	
				3750.00	3840.00	3930.00	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	18.46	18.59	18.84	19.50
		1	137	18.47	18.65	18.53	19.50
		1	271	18.34	18.34	18.81	19.50
		135	0	18.54	18.76	18.78	19.50
		135	69	18.79	19.03	18.67	19.50
		135	138	18.42	18.66	18.81	19.50
		270	0	18.31	18.62	18.73	19.50
	DFT-s-OFDM QPSK	1	1	18.39	18.68	18.56	19.50
		1	137	18.55	18.59	18.72	19.50
		1	271	18.32	18.50	18.73	19.50
		135	0	18.53	18.89	18.81	19.50
		135	69	18.88	19.17	18.79	19.50
		135	138	18.52	18.67	18.85	19.50
		270	0	18.47	18.63	18.72	19.50
	DFT-s-OFDM 16QAM	1	1	17.55	17.63	17.66	18.50
	DFT-s-OFDM 64QAM	1	1	16.15	16.26	15.86	17.00
	DFT-s-OFDM 256QAM	1	1	14.42	14.34	13.93	15.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				650000	656000	662000	
100MHz	CP-OFDM QPSK	1	1	16.12	16.23	15.83	17.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	656000	662332	
90MHz	DFT-s-OFDM QPSK	1	1	18.18	18.41	18.06	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	656000	662666	
80MHz	DFT-s-OFDM QPSK	1	1	18.16	18.45	18.05	19.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	656000	663000	



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70MHz	DFT-s-OFDM QPSK	1	1	18.20	18.45	18.16	19.50
Bandwidth	Modulation	RB size	RB offset	Channel 648668	Channel 656000	Channel 663332	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	18.11	18.47	18.12	19.50
Bandwidth	Modulation	RB size	RB offset	Channel 648334	Channel 660600	Channel 663666	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	18.19	18.41	18.19	19.50
Bandwidth	Modulation	RB size	RB offset	Channel 648000	Channel 656000	Channel 664000	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	18.19	18.49	18.08	19.50
Bandwidth	Modulation	RB size	RB offset	Channel 647334	Channel 656000	Channel 664666	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	18.22	18.41	18.16	19.50
Bandwidth	Modulation	RB size	RB offset	Channel 646668	Channel 656000	Channel 665332	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	18.10	18.41	18.17	19.50
Bandwidth	Modulation	RB size	RB offset	Channel 646000	Channel 656000	Channel 666000	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	18.13	18.39	18.17	19.50

N78 Ant 6 Sensor On For ENDC				Conducted Power(dBm)			
SCS 30kHz(3450~3550)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
				/	3500	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	17.87	/	19.00
		1	137	/	18.16	/	19.00
		1	271	/	18.10	/	19.00
		135	0	/	17.99	/	19.00
		135	69	/	18.04	/	19.00
		135	138	/	18.06	/	19.00
		270	0	/	18.16	/	19.00
	DFT-s-OFDM QPSK	1	1	/	17.98	/	19.00
		1	137	/	18.21	/	19.00
		1	271	/	18.27	/	19.00
		135	0	/	17.99	/	19.00
		135	69	/	18.36	/	19.00
		135	138	/	18.07	/	19.00
		270	0	/	18.14	/	19.00



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	DFT-s-OFDM 16QAM	1	1	/	17.32	/	18.00
	DFT-s-OFDM 64QAM	1	1	/	16.34	/	16.50
	DFT-s-OFDM 256QAM	1	1	/	13.91	/	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	633334	/	
100MHz	CP-OFDM QPSK	1	1		16.24		16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				633000	633334	633668	
90MHz	DFT-s-OFDM QPSK	1	1	18.02	17.69	17.80	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632668	633334	634000	
80MHz	DFT-s-OFDM QPSK	1	1	17.90	17.69	17.83	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632334	633334	634334	
70MHz	DFT-s-OFDM QPSK	1	1	17.93	17.79	17.73	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				632000	633334	634668	
60MHz	DFT-s-OFDM QPSK	1	1	17.94	17.71	17.80	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631668	633334	635000	
50MHz	DFT-s-OFDM QPSK	1	1	17.98	17.79	17.82	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631334	633334	635334	
40MHz	DFT-s-OFDM QPSK	1	1	17.95	17.75	17.71	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				631000	633334	635668	
30MHz	DFT-s-OFDM QPSK	1	1	17.90	17.73	17.81	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630668	633334	636000	
20MHz	DFT-s-OFDM QPSK	1	1	17.90	17.72	17.74	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				630500	633334	636168	



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15MHz	DFT-s-OFDM QPSK	1	1	17.99	17.71	17.79	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 630334	Channel 633334	Channel 636334	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	17.87	17.75	17.83	19.00

N78 Ant 6 Sensor On For END C				Conducted Power(dBm)			
SCS 30kHz(3700~3800)							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
				/	3750.00	/	
100MHz	DFT-s-OFDM PI/2 BPSK	1	1	/	17.83	/	19.00
		1	137	/	18.10	/	19.00
		1	271	/	18.13	/	19.00
		135	0	/	17.97	/	19.00
		135	69	/	18.09	/	19.00
		135	138	/	17.97	/	19.00
		270	0	/	17.92	/	19.00
	DFT-s-OFDM QPSK	1	1	/	17.86	/	19.00
		1	137	/	18.09	/	19.00
		1	271	/	18.15	/	19.00
		135	0	/	18.01	/	19.00
		135	69	/	18.12	/	19.00
		135	138	/	18.04	/	19.00
		270	0	/	18.09	/	19.00
	DFT-s-OFDM 16QAM	1	1	/	17.19	/	18.00
	DFT-s-OFDM 64QAM	1	1	/	16.18	/	16.50
	DFT-s-OFDM 256QAM	1	1	/	13.96	/	14.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				/	650000	/	
100MHz	CP-OFDM QPSK	1	1	/	16.11	/	16.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649668	650000	650334	
90MHz	DFT-s-OFDM QPSK	1	1	17.88	17.69	17.75	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649334	650000	650668	
80MHz	DFT-s-OFDM QPSK	1	1	17.89	17.69	17.63	19.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
				649000	650000	651000	



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70MHz	DFT-s-OFDM QPSK	1	1	17.91	17.76	17.73	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 648668	Channel 650000	Channel 651334	Tune up
60MHz	DFT-s-OFDM QPSK	1	1	17.96	17.65	17.70	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 648334	Channel 650000	Channel 651668	Tune up
50MHz	DFT-s-OFDM QPSK	1	1	17.90	17.78	17.69	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 648000	Channel 650000	Channel 652000	Tune up
40MHz	DFT-s-OFDM QPSK	1	1	17.92	17.64	17.66	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 647668	Channel 650000	Channel 652334	Tune up
30MHz	DFT-s-OFDM QPSK	1	1	17.93	17.74	17.63	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 647334	Channel 650000	Channel 652668	Tune up
20MHz	DFT-s-OFDM QPSK	1	1	17.90	17.67	17.76	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 647168	Channel 650000	Channel 652834	Tune up
15MHz	DFT-s-OFDM QPSK	1	1	17.89	17.72	17.62	19.00
Bandwidth	Modulation	RB size	RB offset	Channel 647000	Channel 650000	Channel 653000	Tune up
10MHz	DFT-s-OFDM QPSK	1	1	17.96	17.78	17.74	19.00

7.1.3 Conducted Power of WLAN

WIFI 2.4GHz MIMO							
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Ant0 Average Power (dBm)	Ant1 Average Power (dBm)	MIMO Average Power (dBm)	Tune up
802.11n HT20	1	2412	6.5	14.58	14.76	17.68	19.50
	6	2437		15.09	14.73	17.92	19.50
	11	2462		14.79	14.88	17.85	19.50
802.11n HT40	1	2412	6.5	14.65	14.76	17.72	19.00
	6	2437		14.89	14.43	17.68	19.00
	11	2462		14.76	14.61	17.70	19.00



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802.11ax HT20	1	2412	MCS0	14.78	14.86	17.83	19.50
	6	2437		15.11	14.80	17.97	19.50
	11	2462		14.81	14.89	17.86	19.50
802.11ax HT40	1	2412	MCS0	14.67	14.79	17.74	19.00
	6	2437		14.90	14.48	17.71	19.00
	11	2462		14.78	14.65	17.73	19.00

WIFI 5GHz								
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11n- HT20	U-NII-1	36	5180	MCS0	13.30	13.47	16.40	17.00
		40	5200		13.25	13.44	16.36	17.00
		44	5220		13.35	13.43	16.40	17.00
		48	5240		13.36	13.47	16.43	17.00
	U-NII-2A	52	5260		13.18	12.43	15.83	17.00
		56	5280		13.20	12.41	15.83	17.00
		60	5300		13.14	12.39	15.79	17.00
		64	5320		13.23	12.19	15.75	17.00
	U-NII-2C	100	5500		12.94	13.67	16.33	17.00
		104	5520		13.02	13.65	16.36	17.00
		108	5540		13.01	13.66	16.36	17.00
		112	5560		12.98	13.72	16.38	17.00
		116	5580		13.13	12.25	15.72	17.00
		120	5600		13.12	12.21	15.70	17.00
		124	5620		13.18	12.25	15.75	17.00
		128	5640		13.17	12.30	15.77	17.00
		132	5660		13.29	13.03	16.17	17.00
		136	5680		13.33	13.01	16.18	17.00
		140	5700		13.26	12.97	16.13	17.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	39	Average Power (dBm)	Tune up
802.11n- HT40	U-NII-1	38	5190	MCS0	13.47	13.57	16.53	17.00
		46	5230		13.35	13.55	16.46	17.00
	U-NII-2A	54	5270		13.25	12.55	15.92	17.00
		62	5310		13.47	12.50	16.02	17.00
	U-NII-2C	102	5510		13.20	13.81	16.53	17.00
		110	5550		12.97	13.74	16.38	17.00
		118	5590		13.33	12.56	15.97	17.00



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		126	5630		13.20	12.24	15.76	17.00
		134	5670		13.41	12.36	15.93	17.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11ac-20	U-NII-1	36	5180	MCS0	13.18	13.53	16.37	17.00
		40	5200		13.34	13.50	16.43	17.00
		44	5220		13.35	13.49	16.43	17.00
		48	5240		13.27	13.44	16.37	17.00
	U-NII-2A	52	5260		13.10	12.93	16.03	17.00
		56	5280		13.23	12.43	15.86	17.00
		60	5300		13.24	12.53	15.91	17.00
		64	5320		13.15	12.25	15.73	17.00
	U-NII-2C	100	5500		12.93	12.89	15.92	17.00
		104	5520		13.14	12.43	15.81	17.00
		108	5540		13.25	12.45	15.88	17.00
		112	5560		13.27	12.41	15.87	17.00
		116	5580		13.26	12.52	15.92	17.00
		120	5600		13.05	12.21	15.66	17.00
		124	5620		12.95	13.70	16.35	17.00
		128	5640		12.96	13.76	16.39	17.00
		132	5660		12.93	13.73	16.36	17.00
		136	5680		13.19	12.31	15.78	17.00
		140	5700		13.22	12.93	16.09	17.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11ac-40	U-NII-1	38	5190	MCS0	13.39	13.36	16.39	17.00
		46	5230		13.35	13.55	16.46	17.00
	U-NII-2A	54	5270		13.35	12.55	15.98	17.00
		62	5310		13.57	12.42	16.04	17.00
	U-NII-2C	102	5510		13.26	13.41	16.35	17.00
		110	5550		13.31	13.56	16.45	17.00
		118	5590		13.18	12.41	15.82	17.00
		126	5630		13.17	12.49	15.85	17.00
		134	5670		13.43	12.32	15.92	17.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11ac 80M	U-NII-1	42	5210	MCS0	13.40	13.28	16.35	17.00
	U-NII-2A	58	5290		13.07	13.10	16.10	17.00
	U-NII-2C	106	5530		13.04	13.34	16.20	17.00
		122	5610		13.06	12.19	15.66	17.00
		138	5690		13.31	12.75	16.05	17.00



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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11aC 160M	U-NII-2A	50	5250	MCS0	13.78	12.86	16.35	17.00
		114	5570		13.32	12.87	16.11	17.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11ax-20	U-NII-1	36	5180	MCS0	13.21	12.83	16.03	17.00
		40	5200		13.27	12.39	15.86	17.00
		44	5220		13.21	12.49	15.88	17.00
		48	5240		13.37	12.66	16.04	17.00
	U-NII-2A	52	5260		13.07	12.31	15.72	17.00
		56	5280		13.17	12.40	15.81	17.00
		60	5300		13.24	12.40	15.85	17.00
		64	5320		13.26	12.19	15.77	17.00
	U-NII-2C	100	5500		13.06	13.29	16.19	17.00
		104	5520		13.04	13.67	16.38	17.00
		108	5540		12.92	13.65	16.31	17.00
		112	5560		12.95	13.71	16.36	17.00
		116	5580		12.99	13.45	16.24	17.00
		120	5600		13.22	12.19	15.75	17.00
		124	5620		13.20	12.23	15.75	17.00
		128	5640		13.14	12.29	15.75	17.00
		132	5660		13.09	12.18	15.67	17.00
		136	5680		13.09	12.24	15.70	17.00
		140	5700		13.30	12.94	16.13	17.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11ax-40	U-NII-1	38	5190	MCS0	13.30	13.15	16.24	17.00
		46	5230		13.25	13.04	16.16	17.00
	U-NII-2A	54	5270		13.34	12.35	15.88	17.00
		62	5310		13.48	12.23	15.91	17.00
	U-NII-2C	102	5510		13.02	13.46	16.26	17.00
		110	5550		12.95	13.64	16.32	17.00
		118	5590		13.14	12.30	15.75	17.00
		126	5630		13.13	12.22	15.71	17.00
		134	5670		13.17	12.17	15.71	17.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11ax 80M	U-NII-1	42	5210	MCS0	13.35	13.10	16.24	17.00
	U-NII-2A	58	5290		13.53	12.34	15.99	17.00



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	U-NII-2C	106	5530		12.96	13.40	16.20	17.00
		122	5610		13.21	12.31	15.79	17.00
		138	5690		13.32	12.91	16.13	17.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11ax	U-NII-2A	50	5250	MCS0	13.50	12.74	16.15	17.00
160M	U-NII-2C	114	5570		13.34	12.81	16.09	17.00



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7.2 Measurement of SAR Data

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:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz .
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.
- 3) Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WiFi 2.4G:

- 1) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2\text{ W/kg}$, SAR test for the other 802.11 modes are not required.

WiFi 5G:

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



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7.2.1 SAR Result of LTE Band 2

LTE Band 2 SAR Test Record											
Ant 0 Test Record											
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data(Separate 10mm 1RB)											
Horizontal-Up	20	QPSK 1_0	18900/1880	1:1	0.433	0.08	16.25	17.50	1.334	0.577	21.9
Horizontal-Down	20	QPSK 1_0	18900/1880	1:1	0.221	-0.16	16.25	17.50	1.334	0.295	21.9
Vertical Front	20	QPSK 1_0	18900/1880	1:1	0.026	0.02	16.25	17.50	1.334	0.035	21.9
Vertical Back	20	QPSK 1_0	18900/1880	1:1	0.048	0.07	16.25	17.50	1.334	0.064	21.9
Tip Mode	20	QPSK 1_0	18900/1880	1:1	0.521	-0.02	16.25	17.50	1.334	0.695	21.9
Body Test data(Separate 10mm 50%RB)											
Horizontal-Up	20	QPSK 50_0	18900/1880	1:1	0.374	0.09	16.15	17.50	1.365	0.510	21.9
Horizontal-Down	20	QPSK 50_0	18900/1880	1:1	0.162	-0.04	16.15	17.50	1.365	0.221	21.9
Vertical Front	20	QPSK 50_0	18900/1880	1:1	0.017	0.02	16.15	17.50	1.365	0.023	21.9
Vertical Back	20	QPSK 50_0	18900/1880	1:1	0.039	0.09	16.15	17.50	1.365	0.053	21.9
Tip Mode	20	QPSK 50_0	18900/1880	1:1	0.458	0.02	16.15	17.50	1.365	0.625	21.9
Body Test data(Separate 10mm 1RB) for UL CA											
Horizontal-Up	20	QPSK 1_0	18900/1880	1:1	0.433	0.08	16.25	15.00	0.750	0.325	21.9
Horizontal-Down	20	QPSK 1_0	18900/1880	1:1	0.221	-0.16	16.25	15.00	0.750	0.166	21.9
Vertical Front	20	QPSK 1_0	18900/1880	1:1	0.026	0.02	16.25	15.00	0.750	0.019	21.9
Vertical Back	20	QPSK 1_0	18900/1880	1:1	0.048	0.07	16.25	15.00	0.750	0.036	21.9
Tip Mode	20	QPSK 1_0	18900/1880	1:1	0.521	-0.02	16.25	15.00	0.750	0.391	21.9
Body Test data(Separate 10mm 50%RB) for UL CA											
Horizontal-Up	20	QPSK 50_0	18900/1880	1:1	0.374	0.09	16.15	15.00	0.767	0.287	21.9
Horizontal-Down	20	QPSK 50_0	18900/1880	1:1	0.162	-0.04	16.15	15.00	0.767	0.124	21.9
Vertical Front	20	QPSK 50_0	18900/1880	1:1	0.017	0.02	16.15	15.00	0.767	0.013	21.9
Vertical Back	20	QPSK 50_0	18900/1880	1:1	0.039	0.09	16.15	15.00	0.767	0.030	21.9
Tip Mode	20	QPSK 50_0	18900/1880	1:1	0.458	0.02	16.15	15.00	0.767	0.351	21.9
Sensor off Test data(Separate 1RB)											
Horizontal-Up-25mm	20	QPSK 1_0	18900/1880	1:1	0.425	0.02	23.65	25.00	1.365	0.580	21.9
Horizontal-Down-14mm	20	QPSK 1_0	18900/1880	1:1	0.678	0.10	23.65	25.00	1.365	0.925	21.9
Horizontal-Down-14mm	20	QPSK 1_0	18700/1860	1:1	0.642	0.05	23.42	25.00	1.439	0.924	21.9
Horizontal-Down-14mm	20	QPSK 1_0	19100/1900	1:1	0.611	0.07	23.28	25.00	1.486	0.908	21.9
Vertical Front-23mm	20	QPSK 1_0	18900/1880	1:1	0.046	0.06	23.65	25.00	1.365	0.063	21.9
Vertical Back-23mm	20	QPSK 1_0	18900/1880	1:1	0.136	0.01	23.65	25.00	1.365	0.186	21.9
Tip Mode-23mm	20	QPSK 1_0	18900/1880	1:1	0.819	0.04	23.65	25.00	1.365	1.118	21.9
Tip Mode-23mm-Repeat SAR	20	QPSK 1_0	18900/1880	1:1	0.804	0.04	23.65	25.00	1.365	1.097	21.9
Tip Mode-23mm	20	QPSK 1_0	18700/1860	1:1	0.747	-0.06	23.42	25.00	1.439	1.075	21.9
Tip Mode-23mm	20	QPSK 1_0	19100/1900	1:1	0.725	0.08	23.28	25.00	1.486	1.077	21.9
Sensor off Test data(Separate 50%RB)											



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Horizontal-Up-25mm	20	QPSK 50_0	18900/1880	1:1	0.354	0.03	22.40	24.00	1.445	0.512	21.9
Horizontal-Down-14mm	20	QPSK 50_0	18900/1880	1:1	0.551	0.08	22.40	24.00	1.445	0.796	21.9
Vertical Front-23mm	20	QPSK 50_0	18900/1880	1:1	0.032	0.01	22.40	24.00	1.445	0.046	21.9
Vertical Back-23mm	20	QPSK 50_0	18900/1880	1:1	0.109	0.06	22.40	24.00	1.445	0.158	21.9
Tip Mode-23mm	20	QPSK 50_0	18900/1880	1:1	0.712	0.02	22.40	24.00	1.445	1.029	21.9
Tip Mode-23mm	20	QPSK 50_0	18700/1860	1:1	0.642	-0.01	22.23	24.00	1.503	0.965	21.9
Tip Mode-23mm	20	QPSK 50_0	19100/1900	1:1	0.633	0.08	22.39	24.00	1.449	0.917	21.9
Sensor off Test data(Separate 100%RB)											
Horizontal-Down-14mm	20	QPSK 100_0	18900/1880	1:1	0.524	0.01	22.51	24.00	1.409	0.738	21.9
Tip Mode-23mm	20	QPSK 100_0	18900/1880	1:1	0.686	0.08	22.51	24.00	1.409	0.967	21.9
Ant 1 Test Record											
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data(Separate 10mm 1RB)											
Horizontal-Up	20	QPSK 1_0	18900/1880	1:1	0.539	-0.02	20.86	22.00	1.300	0.701	21.9
Horizontal-Down	20	QPSK 1_0	18900/1880	1:1	0.373	0.05	20.86	22.00	1.300	0.485	21.9
Vertical Front	20	QPSK 1_0	18900/1880	1:1	0.020	0.13	20.86	22.00	1.300	0.026	21.9
Vertical Back	20	QPSK 1_0	18900/1880	1:1	0.245	0.09	20.86	22.00	1.300	0.319	21.9
Tip Mode	20	QPSK 1_0	18900/1880	1:1	0.004	0.01	20.86	22.00	1.300	0.005	21.9
Body Test data(Separate 10mm 50%RB)											
Horizontal-Up	20	QPSK 50_0	18900/1880	1:1	0.401	0.05	20.62	22.00	1.374	0.551	21.9
Horizontal-Down	20	QPSK 50_0	18900/1880	1:1	0.275	0.08	20.62	22.00	1.374	0.378	21.9
Vertical Front	20	QPSK 50_0	18900/1880	1:1	0.018	-0.10	20.62	22.00	1.374	0.025	21.9
Vertical Back	20	QPSK 50_0	18900/1880	1:1	0.190	0.06	20.62	22.00	1.374	0.261	21.9
Tip Mode	20	QPSK 50_0	18900/1880	1:1	0.002	0.07	20.62	22.00	1.374	0.003	21.9
Body Test data(Separate 10mm 1RB) for UL CA&ENDC											
Horizontal-Up	20	QPSK 1_0	18900/1880	1:1	0.539	-0.02	20.86	19.00	0.652	0.351	21.9
Horizontal-Down	20	QPSK 1_0	18900/1880	1:1	0.373	0.05	20.86	19.00	0.652	0.243	21.9
Vertical Front	20	QPSK 1_0	18900/1880	1:1	0.020	0.13	20.86	19.00	0.652	0.013	21.9
Vertical Back	20	QPSK 1_0	18900/1880	1:1	0.245	0.09	20.86	19.00	0.652	0.160	21.9
Tip Mode	20	QPSK 1_0	18900/1880	1:1	0.004	0.01	20.86	19.00	0.652	0.003	21.9
Body Test data(Separate 10mm 50%RB) for UL CA&ENDC											
Horizontal-Up	20	QPSK 50_0	18900/1880	1:1	0.401	0.05	20.62	19.00	0.689	0.276	21.9
Horizontal-Down	20	QPSK 50_0	18900/1880	1:1	0.275	0.08	20.62	19.00	0.689	0.189	21.9
Vertical Front	20	QPSK 50_0	18900/1880	1:1	0.018	-0.10	20.62	19.00	0.689	0.012	21.9
Vertical Back	20	QPSK 50_0	18900/1880	1:1	0.190	0.06	20.62	19.00	0.689	0.131	21.9
Tip Mode	20	QPSK 50_0	18900/1880	1:1	0.002	0.07	20.62	19.00	0.689	0.001	21.9
Sensor off Test data(Separate 1RB)											
Horizontal-Up-25mm	20	QPSK 1_0	18900/1880	1:1	0.201	0.03	23.67	25.00	1.358	0.273	21.9
Horizontal-Down-14mm	20	QPSK 1_0	18900/1880	1:1	0.515	0.01	23.67	25.00	1.358	0.700	21.9
Vertical Front-23mm	20	QPSK 1_0	18900/1880	1:1	0.032	0.09	23.67	25.00	1.358	0.043	21.9
Vertical Back-23mm	20	QPSK 1_0	18900/1880	1:1	0.305	-0.07	23.67	25.00	1.358	0.414	21.9
Tip Mode-23mm	20	QPSK 1_0	18900/1880	1:1	0.016	0.06	23.67	25.00	1.358	0.022	21.9



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Sensor off Test data(Separate 50%RB)											
Horizontal-Up-25mm	20	QPSK 50_0	18900/1880	1:1	0.174	-0.07	22.58	24.00	1.387	0.241	21.9
Horizontal-Down-14mm	20	QPSK 50_0	18900/1880	1:1	0.469	0.10	22.58	24.00	1.387	0.650	21.9
Vertical Front-23mm	20	QPSK 50_0	18900/1880	1:1	0.023	0.12	22.58	24.00	1.387	0.032	21.9
Vertical Back-23mm	20	QPSK 50_0	18900/1880	1:1	0.239	0.09	22.58	24.00	1.387	0.331	21.9
Tip Mode-23mm	20	QPSK 50_0	18900/1880	1:1	0.012	-0.08	22.58	24.00	1.387	0.017	21.9

Table 6: SAR of LTE Band2 for Body

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Tip Mode-23mm	18900/1880	0.819	0.804	1.019	N/A	N/A

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

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

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

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



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7.2.2 SAR Result of LTE Band 4

LTE Band 4 SAR Test Record											
Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data(Separate 10mm 1RB)											
Horizontal-Up	20	QPSK 1_0	20175/1732.5	1:1	0.455	-0.01	20.89	22.00	1.291	0.588	22.1
Horizontal-Down	20	QPSK 1_0	20175/1732.5	1:1	0.539	0.04	20.89	22.00	1.291	0.696	22.1
Vertical Front	20	QPSK 1_0	20175/1732.5	1:1	0.024	0.02	20.89	22.00	1.291	0.031	22.1
Vertical Back	20	QPSK 1_0	20175/1732.5	1:1	0.106	0.09	20.89	22.00	1.291	0.137	22.1
Tip Mode	20	QPSK 1_0	20175/1732.5	1:1	0.006	0.04	20.89	22.00	1.291	0.008	22.1
Body Test data(Separate 10mm 50%RB)											
Horizontal-Up	20	QPSK 50_0	20175/1732.5	1:1	0.373	0.03	20.75	22.00	1.334	0.497	22.1
Horizontal-Down	20	QPSK 50_0	20175/1732.5	1:1	0.443	0.09	20.75	22.00	1.334	0.591	22.1
Vertical Front	20	QPSK 50_0	20175/1732.5	1:1	0.018	-0.11	20.75	22.00	1.334	0.024	22.1
Vertical Back	20	QPSK 50_0	20175/1732.5	1:1	0.104	0.02	20.75	22.00	1.334	0.139	22.1
Tip Mode	20	QPSK 50_0	20175/1732.5	1:1	0.002	0.08	20.75	22.00	1.334	0.003	22.1
Body Test data(Separate 10mm 1RB) for UL CA&ENDC											
Horizontal-Up	20	QPSK 1_0	20175/1732.5	1:1	0.455	-0.01	20.89	19.00	0.647	0.294	22.1
Horizontal-Down	20	QPSK 1_0	20175/1732.5	1:1	0.539	0.04	20.89	19.00	0.647	0.349	22.1
Vertical Front	20	QPSK 1_0	20175/1732.5	1:1	0.024	0.02	20.89	19.00	0.647	0.016	22.1
Vertical Back	20	QPSK 1_0	20175/1732.5	1:1	0.106	0.09	20.89	19.00	0.647	0.069	22.1
Tip Mode	20	QPSK 1_0	20175/1732.5	1:1	0.006	0.04	20.89	19.00	0.647	0.004	22.1
Body Test data(Separate 10mm 50%RB) for UL CA&ENDC											
Horizontal-Up	20	QPSK 50_0	20175/1732.5	1:1	0.373	0.03	20.75	19.00	0.668	0.249	22.1
Horizontal-Down	20	QPSK 50_0	20175/1732.5	1:1	0.443	0.09	20.75	19.00	0.668	0.296	22.1
Vertical Front	20	QPSK 50_0	20175/1732.5	1:1	0.018	-0.11	20.75	19.00	0.668	0.012	22.1
Vertical Back	20	QPSK 50_0	20175/1732.5	1:1	0.104	0.02	20.75	19.00	0.668	0.070	22.1
Tip Mode	20	QPSK 50_0	20175/1732.5	1:1	0.002	0.08	20.75	19.00	0.668	0.001	22.1
Sensor off Test data(Separate 1RB)											
Horizontal-Up-25mm	20	QPSK 1_0	20175/1732.5	1:1	0.275	0.02	23.85	25.00	1.303	0.358	22.1
Horizontal-Down-14mm	20	QPSK 1_0	20175/1732.5	1:1	0.724	-0.06	23.85	25.00	1.303	0.943	22.1
Vertical Front-23mm	20	QPSK 1_0	20175/1732.5	1:1	0.045	0.01	23.85	25.00	1.303	0.059	22.1
Vertical Back-23mm	20	QPSK 1_0	20175/1732.5	1:1	0.116	0.05	23.85	25.00	1.303	0.151	22.1
Tip Mode-23mm	20	QPSK 1_0	20175/1732.5	1:1	0.006	0.07	23.85	25.00	1.303	0.008	22.1
Sensor off Test data(Separate 50%RB)											



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Horizontal-Up-25mm	20	QPSK 50_0	20175/1732.5	1:1	0.222	-0.01	22.68	24.00	1.355	0.301	22.1
Horizontal-Down-14mm	20	QPSK 50_0	20175/1732.5	1:1	0.613	0.02	22.68	24.00	1.355	0.831	22.1
Vertical Front-23mm	20	QPSK 50_0	20175/1732.5	1:1	0.035	0.08	22.68	24.00	1.355	0.047	22.1
Vertical Back-23mm	20	QPSK 50_0	20175/1732.5	1:1	0.088	0.06	22.68	24.00	1.355	0.119	22.1
Tip Mode-23mm	20	QPSK 50_0	20175/1732.5	1:1	0.005	0.04	22.68	24.00	1.355	0.007	22.1
Sensor off Test data(Separate 100%RB)											
Horizontal-Down-14mm	20	QPSK 100_0	20175/1732.5	1:1	0.578	0.04	22.72	24.00	1.343	0.776	22.1

Table 7: SAR of LTE Band4 for Body.


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7.2.3 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data(Separate 10mm 1RB)											
Horizontal-Up	20	QPSK 1_0	21100/2535	1:1	0.540	-0.09	16.42	17.50	1.282	0.692	22
Horizontal-Up-7C CA	20	QPSK 1_0	21100/2535	1:1	0.521	0.03	16.34	17.50	1.306	0.681	22
Horizontal-Down	20	QPSK 1_0	21100/2535	1:1	0.197	0.02	16.42	17.50	1.282	0.253	22
Vertical Front	20	QPSK 1_0	21100/2535	1:1	0.023	0.09	16.42	17.50	1.282	0.029	22
Vertical Back	20	QPSK 1_0	21100/2535	1:1	0.038	-0.14	16.42	17.50	1.282	0.049	22
Tip Mode	20	QPSK 1_0	21100/2535	1:1	0.498	0.05	16.42	17.50	1.282	0.639	22
Body Test data(Separate 10mm 50%RB)											
Horizontal-Up	20	QPSK 50_0	21100/2535	1:1	0.427	0.02	16.31	17.50	1.315	0.562	22
Horizontal-Down	20	QPSK 50_0	21100/2535	1:1	0.144	0.09	16.31	17.50	1.315	0.189	22
Vertical Front	20	QPSK 50_0	21100/2535	1:1	0.015	0.01	16.31	17.50	1.315	0.020	22
Vertical Back	20	QPSK 50_0	21100/2535	1:1	0.025	0.07	16.31	17.50	1.315	0.033	22
Tip Mode	20	QPSK 50_0	21100/2535	1:1	0.408	-0.01	16.31	17.50	1.315	0.537	22
Body Test data(Separate 10mm 1RB) for UL CA											
Horizontal-Up	20	QPSK 1_0	21100/2535	1:1	0.540	-0.09	16.42	15.00	0.721	0.389	22
Horizontal-Up-7C CA	20	QPSK 1_0	21100/2535	1:1	0.521	0.03	16.34	15.00	0.735	0.383	22
Horizontal-Down	20	QPSK 1_0	21100/2535	1:1	0.197	0.02	16.42	15.00	0.721	0.142	22
Vertical Front	20	QPSK 1_0	21100/2535	1:1	0.023	0.09	16.42	15.00	0.721	0.017	22
Vertical Back	20	QPSK 1_0	21100/2535	1:1	0.038	-0.14	16.42	15.00	0.721	0.027	22
Tip Mode	20	QPSK 1_0	21100/2535	1:1	0.498	0.05	16.42	15.00	0.721	0.359	22
Body Test data(Separate 10mm 50%RB) for UL CA											
Horizontal-Up	20	QPSK 50_0	21100/2535	1:1	0.427	0.02	16.31	15.00	0.740	0.316	22
Horizontal-Down	20	QPSK 50_0	21100/2535	1:1	0.144	0.09	16.31	15.00	0.740	0.107	22
Vertical Front	20	QPSK 50_0	21100/2535	1:1	0.015	0.01	16.31	15.00	0.740	0.011	22
Vertical Back	20	QPSK 50_0	21100/2535	1:1	0.025	0.07	16.31	15.00	0.740	0.018	22
Tip Mode	20	QPSK 50_0	21100/2535	1:1	0.408	-0.01	16.31	15.00	0.740	0.302	22
Sensor off Test data(Separate 10mm 1RB)											
Horizontal-Up-25mm	20	QPSK 1_0	21100/2535	1:1	0.559	-0.06	23.79	25.00	1.321	0.739	22
Horizontal-Down-14mm	20	QPSK 1_0	21100/2535	1:1	0.221	0.01	23.79	25.00	1.321	0.292	22
Vertical Front-23mm	20	QPSK 1_0	21100/2535	1:1	0.065	0.06	23.79	25.00	1.321	0.086	22
Vertical Back-23mm	20	QPSK 1_0	21100/2535	1:1	0.081	0.08	23.79	25.00	1.321	0.107	22
Tip Mode-23mm	20	QPSK 1_0	21100/2535	1:1	0.761	0.04	23.79	25.00	1.321	1.006	22
Tip Mode-23mm-7C CA	20	QPSK 1_0	21100/2535	1:1	0.733	-0.05	23.66	25.00	1.361	0.998	22
Tip Mode-23mm	20	QPSK 1_0	20850/2510	1:1	0.711	0.09	23.55	25.00	1.396	0.993	22
Tip Mode-23mm	20	QPSK 1_0	21350/2560	1:1	0.701	0.04	23.55	25.00	1.396	0.979	22
Sensor off Test data(Separate 10mm 50%RB)											
Horizontal-Up-25mm	20	QPSK 50_0	21100/2535	1:1	0.443	0.06	22.74	24.00	1.337	0.592	22



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Horizontal-Down-14mm	20	QPSK 50_0	21100/2535	1:1	0.451	0.04	22.74	24.00	1.337	0.603	22
Vertical Front-23mm	20	QPSK 50_0	21100/2535	1:1	0.051	0.02	22.74	24.00	1.337	0.068	22
Vertical Back-23mm	20	QPSK 50_0	21100/2535	1:1	0.070	0.01	22.74	24.00	1.337	0.094	22
Tip Mode-23mm	20	QPSK 50_0	21100/2535	1:1	0.632	0.16	22.74	24.00	1.337	0.845	22
Tip Mode-23mm	20	QPSK 50_0	20850/2510	1:1	0.588	-0.01	22.63	24.00	1.371	0.806	22
Tip Mode-23mm	20	QPSK 50_0	21350/2560	1:1	0.597	0.06	22.47	24.00	1.422	0.849	22
Sensor off Test data(Separate 10mm 100%RB)											
Tip Mode-23mm	20	QPSK 100_0	21100/2535	1:1	0.562	0.08	22.76	24.00	1.330	0.748	22
Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data(Separate 10mm 1RB)											
Horizontal-Up	20	QPSK 1_0	21100/2535	1:1	0.509	0.07	17.56	18.50	1.242	0.632	22
Horizontal-Down	20	QPSK 1_0	21100/2535	1:1	0.263	-0.09	17.56	18.50	1.242	0.327	22
Vertical Front	20	QPSK 1_0	21100/2535	1:1	0.039	0.01	17.56	18.50	1.242	0.048	22
Vertical Back	20	QPSK 1_0	21100/2535	1:1	0.557	0.01	17.56	18.50	1.242	0.692	22
Vertical Back-7C CA	20	QPSK 1_0	21100/2535	1:1	0.529	-0.08	17.42	18.50	1.282	0.678	22
Tip Mode	20	QPSK 1_0	21100/2535	1:1	0.002	0.05	17.56	18.50	1.242	0.002	22
Body Test data(Separate 10mm 50%RB)											
Horizontal-Up	20	QPSK 50_0	21100/2535	1:1	0.411	-0.02	17.34	18.50	1.306	0.537	22
Horizontal-Down	20	QPSK 50_0	21100/2535	1:1	0.207	0.08	17.34	18.50	1.306	0.270	22
Vertical Front	20	QPSK 50_0	21100/2535	1:1	0.039	0.07	17.34	18.50	1.306	0.051	22
Vertical Back	20	QPSK 50_0	21100/2535	1:1	0.476	0.16	17.34	18.50	1.306	0.622	22
Tip Mode	20	QPSK 50_0	21100/2535	1:1	0.002	0.02	17.34	18.50	1.306	0.003	22
Body Test data(Separate 10mm 1RB) for ENDC											
Horizontal-Up	20	QPSK 1_0	21100/2535	1:1	0.509	0.07	17.56	16.00	0.698	0.355	22
Horizontal-Down	20	QPSK 1_0	21100/2535	1:1	0.263	-0.09	17.56	16.00	0.698	0.184	22
Vertical Front	20	QPSK 1_0	21100/2535	1:1	0.039	0.01	17.56	16.00	0.698	0.027	22
Vertical Back	20	QPSK 1_0	21100/2535	1:1	0.557	0.01	17.56	16.00	0.698	0.389	22
Vertical Back-7C CA	20	QPSK 1_0	21100/2535	1:1	0.529	-0.08	17.42	16.00	0.721	0.381	22
Tip Mode	20	QPSK 1_0	21100/2535	1:1	0.002	0.05	17.56	16.00	0.698	0.001	22
Body Test data(Separate 10mm 50%RB) for ENDC											
Horizontal-Up	20	QPSK 50_0	21100/2535	1:1	0.411	-0.02	17.34	16.00	0.735	0.302	22
Horizontal-Down	20	QPSK 50_0	21100/2535	1:1	0.207	0.08	17.34	16.00	0.735	0.152	22
Vertical Front	20	QPSK 50_0	21100/2535	1:1	0.039	0.07	17.34	16.00	0.735	0.029	22
Vertical Back	20	QPSK 50_0	21100/2535	1:1	0.476	0.16	17.34	16.00	0.735	0.350	22
Tip Mode	20	QPSK 50_0	21100/2535	1:1	0.002	0.02	17.34	16.00	0.735	0.001	22
Sensor off Test data(Separate 1RB)											
Horizontal-Up-25mm	20	QPSK 1_0	21100/2535	1:1	0.261	0.07	23.84	25.00	1.306	0.341	22
Horizontal-Down-14mm	20	QPSK 1_0	21100/2535	1:1	0.685	-0.02	23.84	25.00	1.306	0.895	22
Horizontal-Down-14mm	20	QPSK 1_0	20850/2510	1:1	0.642	0.07	23.79	25.00	1.321	0.848	22
Horizontal-Down-14mm	20	QPSK 1_0	21350/2560	1:1	0.616	0.02	23.47	25.00	1.422	0.876	22



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Vertical Front-23mm	20	QPSK 1_0	21100/2535	1:1	0.079	0.01	23.84	25.00	1.306	0.103	22
Vertical Back-23mm	20	QPSK 1_0	21100/2535	1:1	0.837	0.08	23.84	25.00	1.306	1.093	22
Vertical Back-23mm-Repeat	20	QPSK 1_0	21100/2535	1:1	0.821	0.01	23.84	25.00	1.306	1.072	22
Vertical Back-23mm-7C CA	20	QPSK 1_0	21100/2535	1:1	0.811	0.12	23.75	25.00	1.334	1.081	22
Vertical Back-23mm	20	QPSK 1_0	20850/2510	1:1	0.816	0.01	23.79	25.00	1.321	1.078	22
Vertical Back-23mm	20	QPSK 1_0	21350/2560	1:1	0.761	-0.08	23.47	25.00	1.422	1.082	22
Tip Mode-23mm	20	QPSK 1_0	21100/2535	1:1	0.015	0.06	23.84	25.00	1.306	0.020	22
Sensor off Test data(Separate 50%RB)											
Horizontal-Up-25mm	20	QPSK 50_0	21100/2535	1:1	0.220	0.10	22.60	24.00	1.380	0.304	22
Horizontal-Down-14mm	20	QPSK 50_0	21100/2535	1:1	0.541	0.03	22.60	24.00	1.380	0.747	22
Vertical Front-23mm	20	QPSK 50_0	21100/2535	1:1	0.061	0.04	22.60	24.00	1.380	0.084	22
Vertical Back-23mm	20	QPSK 50_0	21100/2535	1:1	0.655	0.07	22.60	24.00	1.380	0.904	22
Vertical Back-23mm	20	QPSK 50_0	20850/2510	1:1	0.605	0.08	22.88	24.00	1.294	0.783	22
Vertical Back-23mm	20	QPSK 50_0	21350/2560	1:1	0.611	-0.09	22.57	24.00	1.390	0.849	22
Tip Mode-23mm	20	QPSK 50_0	21100/2535	1:1	0.012	0.02	22.60	24.00	1.380	0.017	22
Sensor off Test data(Separate 100%RB)											
Horizontal-Down-14mm	20	QPSK 100_0	21100/2535	1:1	0.528	0.12	22.60	24.00	1.380	0.729	22
Vertical Back-23mm	20	QPSK 100_0	21100/2535	1:1	0.634	0.04	22.60	24.00	1.380	0.875	22

Table 8: SAR of LTE Band 7 for Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Vertical Back-23mm	21100/2535	0.837	0.821	1.019	N/A	N/A

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

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

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

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



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7.2.4 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Body Test data(Separate 10mm 1RB)											
Horizontal-Up	15	QPSK 1_0	26865/831.5	1:1	0.430	-0.06	23.40	25.00	1.445	0.622	22.3
Horizontal-Up-5B CA	10	QPSK 1_0	20525/836.5	1:1	0.416	0.02	23.31	25.00	1.476	0.614	22.3
Horizontal-Down	15	QPSK 1_0	26865/831.5	1:1	0.266	0.01	23.40	25.00	1.445	0.384	22.3
Vertical Front	15	QPSK 1_0	26865/831.5	1:1	0.162	0.05	23.40	25.00	1.445	0.234	22.3
Vertical Back	15	QPSK 1_0	26865/831.5	1:1	0.149	0.02	23.40	25.00	1.445	0.215	22.3
Tip Mode	15	QPSK 1_0	26865/831.5	1:1	0.117	0.07	23.40	25.00	1.445	0.169	22.3
Body Test data(Separate 10mm 50%RB)											
Horizontal-Up	15	QPSK 36_0	26865/831.5	1:1	0.360	0.05	22.27	24.00	1.489	0.536	22.3
Horizontal-Down	15	QPSK 36_0	26865/831.5	1:1	0.201	0.04	22.27	24.00	1.489	0.299	22.3
Vertical Front	15	QPSK 36_0	26865/831.5	1:1	0.139	0.09	22.27	24.00	1.489	0.207	22.3
Vertical Back	15	QPSK 36_0	26865/831.5	1:1	0.116	0.01	22.27	24.00	1.489	0.173	22.3
Tip Mode	15	QPSK 36_0	26865/831.5	1:1	0.103	0.02	22.27	24.00	1.489	0.153	22.3
Body Test data(Separate 10mm 1RB) for ULCA&ENDC											
Horizontal-Up	15	QPSK 1_0	26865/831.5	1:1	0.430	-0.06	23.40	23.00	0.912	0.392	22.3
Horizontal-Up-5B CA	10	QPSK 1_0	20525/836.5	1:1	0.416	0.02	23.31	23.00	0.931	0.387	22.3
Horizontal-Down	15	QPSK 1_0	26865/831.5	1:1	0.266	0.01	23.40	23.00	0.912	0.243	22.3
Vertical Front	15	QPSK 1_0	26865/831.5	1:1	0.162	0.05	23.40	23.00	0.912	0.148	22.3
Vertical Back	15	QPSK 1_0	26865/831.5	1:1	0.149	0.02	23.40	23.00	0.912	0.136	22.3
Tip Mode	15	QPSK 1_0	26865/831.5	1:1	0.117	0.07	23.40	23.00	0.912	0.107	22.3
Body Test data(Separate 10mm 50%RB) for ULCA&ENDC											
Horizontal-Up	15	QPSK 36_0	26865/831.5	1:1	0.360	0.05	22.27	22.00	0.940	0.338	22.3
Horizontal-Down	15	QPSK 36_0	26865/831.5	1:1	0.201	0.04	22.27	22.00	0.940	0.189	22.3
Vertical Front	15	QPSK 36_0	26865/831.5	1:1	0.139	0.09	22.27	22.00	0.940	0.131	22.3
Vertical Back	15	QPSK 36_0	26865/831.5	1:1	0.116	0.01	22.27	22.00	0.940	0.109	22.3
Tip Mode	15	QPSK 36_0	26865/831.5	1:1	0.103	0.02	22.27	22.00	0.940	0.097	22.3
Sensor off Test data(Separate 1RB)											
Horizontal-Up-25mm	15	QPSK 1_0	26865/831.5	1:1	0.146	0.01	23.40	25.00	1.445	0.211	22.3
Horizontal-Down-14mm	15	QPSK 1_0	26865/831.5	1:1	0.237	-0.09	23.40	25.00	1.445	0.343	22.3
Horizontal-Down-14mm-5B CA	10	QPSK 1_0	20525/836.5	1:1	0.221	0.06	23.31	25.00	1.476	0.326	22.3
Vertical Front-23mm	15	QPSK 1_0	26865/831.5	1:1	0.110	0.02	23.40	25.00	1.445	0.159	22.3
Vertical Back-23mm	15	QPSK 1_0	26865/831.5	1:1	0.089	0.07	23.40	25.00	1.445	0.129	22.3
Tip Mode-23mm	15	QPSK 1_0	26865/831.5	1:1	0.042	0.02	23.40	25.00	1.445	0.061	22.3
Sensor off Test data(Separate 50%RB)											
Horizontal-Up-25mm	15	QPSK 36_0	26865/831.5	1:1	0.121	0.08	22.27	24.00	1.489	0.180	22.3
Horizontal-Down-14mm	15	QPSK 36_0	26865/831.5	1:1	0.156	0.06	22.27	24.00	1.489	0.232	22.3



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Vertical Front-23mm	15	QPSK 36_0	26865/831.5	1:1	0.061	0.07	22.27	24.00	1.489	0.091	22.3
Vertical Back-23mm	15	QPSK 36_0	26865/831.5	1:1	0.051	0.05	22.27	24.00	1.489	0.076	22.3
Tip Mode-23mm	15	QPSK 36_0	26865/831.5	1:1	0.036	0.07	22.27	24.00	1.489	0.054	22.3

Table 9: SAR of LTE Band 26 for Body.



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7.2.5 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record											
Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data(Separate 10mm 1RB)											
Horizontal-Up	20	QPSK 1_0	40620/2593	1:1.58	0.534	-0.07	21.31	22.00	1.172	0.626	22
Horizontal-Up-41C CA	20	QPSK 1_0	40620/2593	1:1.58	0.521	0.02	21.22	22.00	1.197	0.624	22
Horizontal-Up	20	QPSK 1_0	39750/2506	1:1.58	0.501	0.16	21.19	22.00	1.205	0.604	22
Horizontal-Up	20	QPSK 1_0	40185/2549.5	1:1.58	0.511	0.02	21.18	22.00	1.208	0.617	22
Horizontal-Up	20	QPSK 1_0	41055/2636.5	1:1.58	0.496	0.07	21.19	22.00	1.205	0.598	22
Horizontal-Up	20	QPSK 1_0	41490/2680	1:1.58	0.518	-0.05	21.20	22.00	1.202	0.623	22
Horizontal-Down	20	QPSK 1_0	40620/2593	1:1.58	0.170	0.13	21.31	22.00	1.172	0.199	22
Vertical Front	20	QPSK 1_0	40620/2593	1:1.58	0.029	0.02	21.31	22.00	1.172	0.034	22
Vertical Back	20	QPSK 1_0	40620/2593	1:1.58	0.350	0.08	21.31	22.00	1.172	0.410	22
Tip Mode	20	QPSK 1_0	40620/2593	1:1.58	0.005	0.07	21.31	22.00	1.172	0.006	22
Body Test data(Separate 10mm 50%RB)											
Horizontal-Up	20	QPSK 50_0	40620/2593	1:1.58	0.453	-0.06	21.23	22.00	1.194	0.541	22
Horizontal-Down	20	QPSK 50_0	40620/2593	1:1.58	0.144	0.05	21.23	22.00	1.194	0.172	22
Vertical Front	20	QPSK 50_0	40620/2593	1:1.58	0.019	0.07	21.23	22.00	1.194	0.023	22
Vertical Back	20	QPSK 50_0	40620/2593	1:1.58	0.290	0.01	21.23	22.00	1.194	0.346	22
Tip Mode	20	QPSK 50_0	40620/2593	1:1.58	0.003	0.05	21.23	22.00	1.194	0.004	22
Body Test data(Separate 10mm 100%RB)											
Horizontal-Up	20	QPSK 100_0	40620/2593	1:1.58	0.428	0.16	21.14	22.00	1.219	0.522	22
Body Test data(Separate 10mm 1RB) for UL CA&ENDC											
Horizontal-Up	20	QPSK 1_0	40620/2593	1:1.58	0.534	-0.07	21.31	20.00	0.740	0.395	22
Horizontal-Up-41C CA	20	QPSK 1_0	40620/2593	1:1.58	0.521	0.02	21.22	20.00	0.755	0.393	22
Horizontal-Down	20	QPSK 1_0	40620/2593	1:1.58	0.170	0.13	21.31	20.00	0.740	0.126	22
Vertical Front	20	QPSK 1_0	40620/2593	1:1.58	0.029	0.02	21.31	20.00	0.740	0.021	22
Vertical Back	20	QPSK 1_0	40620/2593	1:1.58	0.350	0.08	21.31	20.00	0.740	0.259	22
Tip Mode	20	QPSK 1_0	40620/2593	1:1.58	0.005	0.07	21.31	20.00	0.740	0.004	22
Body Test data(Separate 10mm 50%RB) for UL CA&ENDC											
Horizontal-Up	20	QPSK 50_0	40620/2593	1:1.58	0.453	-0.06	21.23	20.00	0.753	0.341	22
Horizontal-Down	20	QPSK 50_0	40620/2593	1:1.58	0.144	0.05	21.23	20.00	0.753	0.108	22
Vertical Front	20	QPSK 50_0	40620/2593	1:1.58	0.019	0.07	21.23	20.00	0.753	0.014	22
Vertical Back	20	QPSK 50_0	40620/2593	1:1.58	0.290	0.01	21.23	20.00	0.753	0.218	22
Tip Mode	20	QPSK 50_0	40620/2593	1:1.58	0.003	0.05	21.23	20.00	0.753	0.002	22
Sensor off Test data(Separate 1RB)											
Horizontal-Up-25mm	20	QPSK 1_0	40620/2593	1:1.58	0.132	0.05	24.31	25.00	1.172	0.155	22
Horizontal-Down-14mm	20	QPSK 1_0	40620/2593	1:1.58	0.348	-0.16	24.31	25.00	1.172	0.408	22
Vertical Front-23mm	20	QPSK 1_0	40620/2593	1:1.58	0.046	0.02	24.31	25.00	1.172	0.054	22
Vertical Back-23mm	20	QPSK 1_0	40620/2593	1:1.58	0.380	0.08	24.31	25.00	1.172	0.445	22



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Vertical Back-23mm-41C CA	20	QPSK 1_0	40620/2593	1:1.58	0.346	0.12	24.18	25.00	1.208	0.418	22
Tip Mode-23mm	20	QPSK 1_0	40620/2593	1:1.58	0.005	0.06	24.31	25.00	1.172	0.006	22
Sensor off Test data(Separate 50%RB)											
Horizontal-Up-25mm	20	QPSK 50_0	40620/2593	1:1.58	0.110	-0.06	23.01	24.00	1.256	0.138	22
Horizontal-Down-14mm	20	QPSK 50_0	40620/2593	1:1.58	0.282	0.03	23.01	24.00	1.256	0.354	22
Vertical Front-23mm	20	QPSK 50_0	40620/2593	1:1.58	0.037	0.07	23.01	24.00	1.256	0.046	22
Vertical Back-23mm	20	QPSK 50_0	40620/2593	1:1.58	0.328	0.05	23.01	24.00	1.256	0.412	22
Tip Mode-23mm	20	QPSK 50_0	40620/2593	1:1.58	0.002	0.07	23.01	24.00	1.256	0.003	22

Table 10: SAR of LTE Band 41 for Body.



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7.2.6 SAR Result of LTE Band 42

LTE Band 42 SAR Test Record											
Ant4 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data(Separate 10mm 1RB)											
Horizontal-Up	20	QPSK 1_0	42590/3500	1:1.58	0.371	-0.05	23.77	25.00	1.327	0.492	22.1
Horizontal-Up-42C CA	20	QPSK 1_0	42590/3500	1:1.58	0.348	0.01	23.52	25.00	1.406	0.489	22.1
Horizontal-Down	20	QPSK 1_0	42590/3500	1:1.58	0.242	-0.05	23.77	25.00	1.327	0.321	22.1
Vertical Front	20	QPSK 1_0	42590/3500	1:1.58	0.111	0.01	23.77	25.00	1.327	0.147	22.1
Vertical Back	20	QPSK 1_0	42590/3500	1:1.58	0.052	0.09	23.77	25.00	1.327	0.069	22.1
Tip Mode	20	QPSK 1_0	42590/3500	1:1.58	0.034	0.16	23.77	25.00	1.327	0.045	22.1
Body Test data(Separate 10mm 50%RB)											
Horizontal-Up	20	QPSK 50_0	42590/3500	1:1.58	0.282	0.02	22.81	24.00	1.315	0.371	22.1
Horizontal-Down	20	QPSK 50_0	42590/3500	1:1.58	0.211	-0.04	22.81	24.00	1.315	0.278	22.1
Vertical Front	20	QPSK 50_0	42590/3500	1:1.58	0.093	0.08	22.81	24.00	1.315	0.122	22.1
Vertical Back	20	QPSK 50_0	42590/3500	1:1.58	0.040	0.04	22.81	24.00	1.315	0.053	22.1
Tip Mode	20	QPSK 50_0	42590/3500	1:1.58	0.030	0.09	22.81	24.00	1.315	0.039	22.1
Body Test data(Separate 10mm 1RB) for UL CA											
Horizontal-Up	20	QPSK 1_0	42590/3500	1:1.58	0.371	-0.05	23.77	24.00	1.054	0.391	22.1
Horizontal-Up-42C CA	20	QPSK 1_0	42590/3500	1:1.58	0.348	0.01	23.52	24.00	1.117	0.389	22.1
Horizontal-Down	20	QPSK 1_0	42590/3500	1:1.58	0.242	-0.05	23.77	24.00	1.054	0.255	22.1
Vertical Front	20	QPSK 1_0	42590/3500	1:1.58	0.111	0.01	23.77	24.00	1.054	0.117	22.1
Vertical Back	20	QPSK 1_0	42590/3500	1:1.58	0.052	0.09	23.77	24.00	1.054	0.055	22.1
Tip Mode	20	QPSK 1_0	42590/3500	1:1.58	0.034	0.16	23.77	24.00	1.054	0.036	22.1
Body Test data(Separate 10mm 50%RB) for UL CA											
Horizontal-Up	20	QPSK 50_0	42590/3500	1:1.58	0.282	0.02	22.81	23.00	1.045	0.295	22.1
Horizontal-Down	20	QPSK 50_0	42590/3500	1:1.58	0.211	-0.04	22.81	23.00	1.045	0.220	22.1
Vertical Front	20	QPSK 50_0	42590/3500	1:1.58	0.093	0.08	22.81	23.00	1.045	0.097	22.1
Vertical Back	20	QPSK 50_0	42590/3500	1:1.58	0.040	0.04	22.81	23.00	1.045	0.042	22.1
Tip Mode	20	QPSK 50_0	42590/3500	1:1.58	0.030	0.09	22.81	23.00	1.045	0.031	22.1
Sensor off Test data(Separate 1RB)											
Horizontal-Up-25mm	20	QPSK 1_0	42590/3500	1:1.58	0.040	-0.09	23.77	25.00	1.327	0.053	22.1
Horizontal-Down-14mm	20	QPSK 1_0	42590/3500	1:1.58	0.131	0.04	23.77	25.00	1.327	0.174	22.1
Horizontal-Down-14mm-42C CA	20	QPSK 1_0	42590/3500	1:1.58	0.123	0.15	23.52	25.00	1.406	0.173	22.1
Vertical Front-23mm	20	QPSK 1_0	42590/3500	1:1.58	0.046	0.02	23.77	25.00	1.327	0.061	22.1
Vertical Back-23mm	20	QPSK 1_0	42590/3500	1:1.58	0.041	0.09	23.77	25.00	1.327	0.054	22.1
Tip Mode-23mm	20	QPSK 1_0	42590/3500	1:1.58	0.008	0.06	23.77	25.00	1.327	0.011	22.1
Sensor off Test data(Separate 50%RB)											
Horizontal-Up-25mm	20	QPSK 50_0	42590/3500	1:1.58	0.032	0.04	22.81	24.00	1.315	0.042	22.1
Horizontal-Down-14mm	20	QPSK 50_0	42590/3500	1:1.58	0.122	0.02	22.81	24.00	1.315	0.160	22.1



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Vertical Front-23mm	20	QPSK 50_0	42590/3500	1:1.58	0.031	0.01	22.81	24.00	1.315	0.041	22.1
Vertical Back-23mm	20	QPSK 50_0	42590/3500	1:1.58	0.028	0.09	22.81	24.00	1.315	0.037	22.1
Tip Mode-23mm	20	QPSK 50_0	42590/3500	1:1.58	0.007	0.04	22.81	24.00	1.315	0.009	22.1
Ant6 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data(Separate 10mm 1RB)											
Horizontal-Up	20	QPSK 1_0	42590/3500	1:1.58	0.051	0.08	23.96	25.00	1.271	0.065	22.1
Horizontal-Down	20	QPSK 1_0	42590/3500	1:1.58	0.277	-0.03	23.96	25.00	1.271	0.352	22.1
Horizontal-Down-42C CA	20	QPSK 1_0	42590/3500	1:1.58	0.261	0.01	23.75	25.00	1.334	0.348	22.1
Vertical Front	20	QPSK 1_0	42590/3500	1:1.58	0.215	0.04	23.96	25.00	1.271	0.273	22.1
Vertical Back	20	QPSK 1_0	42590/3500	1:1.58	0.036	0.06	23.96	25.00	1.271	0.046	22.1
Tip Mode	20	QPSK 1_0	42590/3500	1:1.58	0.037	0.07	23.96	25.00	1.271	0.047	22.1
Body Test data(Separate 10mm 50%RB)											
Horizontal-Up	20	QPSK 50_0	42590/3500	1:1.58	0.045	0.02	22.99	24.00	1.262	0.057	22.1
Horizontal-Down	20	QPSK 50_0	42590/3500	1:1.58	0.248	0.09	22.99	24.00	1.262	0.313	22.1
Vertical Front	20	QPSK 50_0	42590/3500	1:1.58	0.191	0.04	22.99	24.00	1.262	0.241	22.1
Vertical Back	20	QPSK 50_0	42590/3500	1:1.58	0.031	0.02	22.99	24.00	1.262	0.039	22.1
Tip Mode	20	QPSK 50_0	42590/3500	1:1.58	0.034	0.08	22.99	24.00	1.262	0.043	22.1

Table 11: SAR of LTE Band 42 for Body.



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7.2.7 SAR Result of NR 41

SA N41 SAR Test Record											
Ant1 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Hotspot Test data(Separate 10mm 1RB)											
Horizontal-Up	100	QPSK 1_137	523302/2616.51	1:1	0.519	-0.01	19.25	20.50	1.334	0.692	22.1
Horizontal-Down	100	QPSK 1_137	523302/2616.51	1:1	0.310	0.04	19.25	20.50	1.334	0.413	22.1
Vertical Front	100	QPSK 1_137	523302/2616.51	1:1	0.041	0.08	19.25	20.50	1.334	0.055	22.1
Vertical Back	100	QPSK 1_137	523302/2616.51	1:1	0.582	0.07	19.25	20.50	1.334	0.776	22.1
Tip Mode	100	QPSK 1_137	523302/2616.51	1:1	0.024	0.06	19.25	20.50	1.334	0.032	22.1
Hotspot Test data (Separate 10mm 50%RB)											
Horizontal-Up	100	QPSK 135_69	523302/2616.51	1:1	0.518	0.01	19.20	20.50	1.349	0.699	22.1
Horizontal-Down	100	QPSK 135_69	523302/2616.51	1:1	0.315	0.09	19.20	20.50	1.349	0.425	22.1
Vertical Front	100	QPSK 135_69	523302/2616.51	1:1	0.045	-0.03	19.20	20.50	1.349	0.061	22.1
Vertical Back	100	QPSK 135_69	523302/2616.51	1:1	0.586	0.11	19.20	20.50	1.349	0.790	22.1
Tip Mode	100	QPSK 135_69	523302/2616.51	1:1	0.093	-0.07	19.20	20.50	1.349	0.125	22.1
Hotspot Test data(Separate 10mm 1RB) for ENDC											
Horizontal-Up	100	QPSK 1_137	523302/2616.51	1:1	0.519	-0.01	19.25	17.50	0.668	0.347	22.1
Horizontal-Down	100	QPSK 1_137	523302/2616.51	1:1	0.310	0.04	19.25	17.50	0.668	0.207	22.1
Vertical Front	100	QPSK 1_137	523302/2616.51	1:1	0.041	0.08	19.25	17.50	0.668	0.028	22.1
Vertical Back	100	QPSK 1_137	523302/2616.51	1:1	0.582	0.07	19.25	17.50	0.668	0.389	22.1
Tip Mode	100	QPSK 1_137	523302/2616.51	1:1	0.024	0.06	19.25	17.50	0.668	0.016	22.1
Hotspot Test data (Separate 10mm 50%RB) for ENDC											
Horizontal-Up	100	QPSK 135_69	523302/2616.51	1:1	0.518	0.01	19.20	17.50	0.676	0.350	22.1
Horizontal-Down	100	QPSK 135_69	523302/2616.51	1:1	0.315	0.09	19.20	17.50	0.676	0.213	22.1
Vertical Front	100	QPSK 135_69	523302/2616.51	1:1	0.045	-0.03	19.20	17.50	0.676	0.031	22.1
Vertical Back	100	QPSK 135_69	523302/2616.51	1:1	0.586	0.11	19.20	17.50	0.676	0.396	22.1
Tip Mode	100	QPSK 135_69	523302/2616.51	1:1	0.093	-0.07	19.20	17.50	0.676	0.063	22.1
Sensor off Test data(Separate 1RB)											
Horizontal-Up-25mm	100	QPSK 1_137	523302/2616.51	1:1	0.303	0.08	23.80	25.00	1.318	0.399	22.1
Horizontal-Down-14mm	100	QPSK 1_137	523302/2616.51	1:1	0.407	0.02	23.80	25.00	1.318	0.537	22.1
Vertical Front-23mm	100	QPSK 1_137	523302/2616.51	1:1	0.046	0.02	23.80	25.00	1.318	0.061	22.1
Vertical Back-23mm	100	QPSK 1_137	523302/2616.51	1:1	0.444	0.25	23.80	25.00	1.318	0.585	22.1
Tip Mode-23mm	100	QPSK 1_137	523302/2616.51	1:1	0.038	-0.08	23.80	25.00	1.318	0.050	22.1
Sensor off Test data(Separate 50%RB)											
Horizontal-Up-25mm	100	QPSK 135_69	518598/2592.99	1:1	0.304	0.04	23.66	25.00	1.361	0.414	22.1
Horizontal-Down-14mm	100	QPSK 135_69	518598/2592.99	1:1	0.426	0.03	23.66	25.00	1.361	0.580	22.1



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Vertical Front-23mm	100	QPSK 135_69	518598/2592.99	1:1	0.049	0.01	23.66	25.00	1.361	0.066	22.1
Vertical Back-23mm	100	QPSK 135_69	518598/2592.99	1:1	0.435	0.09	23.66	25.00	1.361	0.592	22.1
Tip Mode-23mm	100	QPSK 135_69	518598/2592.99	1:1	0.021	-0.01	23.66	25.00	1.361	0.028	22.1



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7.2.8 SAR Result of NR 77

SA N77 Part27Q SAR Test Record											
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data(Separate 10mm 1RB)											
Horizontal-Up	100	QPSK 1_137	633334/3500	1:1	0.461	-0.04	20.29	21.50	1.321	0.609	22.1
Horizontal-Down	100	QPSK 1_137	633334/3500	1:1	0.401	0.02	20.29	21.50	1.321	0.530	22.1
Vertical Front	100	QPSK 1_137	633334/3500	1:1	0.349	0.06	20.29	21.50	1.321	0.461	22.1
Vertical Back	100	QPSK 1_137	633334/3500	1:1	0.102	0.05	20.29	21.50	1.321	0.135	22.1
Tip Mode	100	QPSK 1_137	633334/3500	1:1	0.138	0.01	20.29	21.50	1.321	0.182	22.1
Body Test data (Separate 10mm 50%RB)											
Horizontal-Up	100	QPSK 135_69	633334/3500	1:1	0.519	0.01	20.34	21.50	1.306	0.678	22.1
Horizontal-Down	100	QPSK 135_69	633334/3500	1:1	0.451	-0.04	20.34	21.50	1.306	0.589	22.1
Vertical Front	100	QPSK 135_69	633334/3500	1:1	0.381	0.13	20.34	21.50	1.306	0.498	22.1
Vertical Back	100	QPSK 135_69	633334/3500	1:1	0.110	0.12	20.34	21.50	1.306	0.144	22.1
Tip Mode	100	QPSK 135_69	633334/3500	1:1	0.150	-0.11	20.34	21.50	1.306	0.196	22.1
Body Test data(Separate 10mm 1RB) for ENDC											
Horizontal-Up	100	QPSK 1_137	633334/3500	1:1	0.461	-0.04	20.29	18.50	0.662	0.305	22.1
Horizontal-Down	100	QPSK 1_137	633334/3500	1:1	0.401	0.02	20.29	18.50	0.662	0.266	22.1
Vertical Front	100	QPSK 1_137	633334/3500	1:1	0.349	0.06	20.29	18.50	0.662	0.231	22.1
Vertical Back	100	QPSK 1_137	633334/3500	1:1	0.102	0.05	20.29	18.50	0.662	0.068	22.1
Tip Mode	100	QPSK 1_137	633334/3500	1:1	0.138	0.01	20.29	18.50	0.662	0.091	22.1
Body Test data (Separate 10mm 50%RB) for ENDC											
Horizontal-Up	100	QPSK 135_69	633334/3500	1:1	0.519	0.01	20.34	18.50	0.655	0.340	22.1
Horizontal-Down	100	QPSK 135_69	633334/3500	1:1	0.451	-0.04	20.34	18.50	0.655	0.295	22.1
Vertical Front	100	QPSK 135_69	633334/3500	1:1	0.381	0.13	20.34	18.50	0.655	0.249	22.1
Vertical Back	100	QPSK 135_69	633334/3500	1:1	0.110	0.12	20.34	18.50	0.655	0.072	22.1
Tip Mode	100	QPSK 135_69	633334/3500	1:1	0.150	-0.11	20.34	18.50	0.655	0.098	22.1
Sensor off Test data(Separat 1RB)											
Horizontal-Up-25mm	100	QPSK 1_137	633334/3500	1:1	0.221	-0.06	23.64	24.50	1.219	0.269	22.1
Horizontal-Down-14mm	100	QPSK 1_137	633334/3500	1:1	0.436	0.05	23.64	24.50	1.219	0.531	22.1
Vertical Front-23mm	100	QPSK 1_137	633334/3500	1:1	0.215	0.07	23.64	24.50	1.219	0.262	22.1
Vertical Back-23mm	100	QPSK 1_137	633334/3500	1:1	0.061	0.01	23.64	24.50	1.219	0.074	22.1
Tip Mode-23mm	100	QPSK 1_137	633334/3500	1:1	0.154	0.05	23.64	24.50	1.219	0.188	22.1
Sensor off Test data(Separat 50%RB)											
Horizontal-Up-25mm	100	QPSK 135_69	633334/3500	1:1	0.235	0.05	23.75	24.50	1.189	0.279	22.1
Horizontal-Down-14mm	100	QPSK 135_69	633334/3500	1:1	0.470	0.02	23.75	24.50	1.189	0.559	22.1
Vertical Front-23mm	100	QPSK 135_69	633334/3500	1:1	0.268	0.01	23.75	24.50	1.189	0.319	22.1
Vertical Back-23mm	100	QPSK 135_69	633334/3500	1:1	0.053	-0.15	23.75	24.50	1.189	0.063	22.1
Tip Mode-23mm	100	QPSK 135_69	633334/3500	1:1	0.164	0.04	23.75	24.50	1.189	0.195	22.1



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Ant6 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data(Separate 10mm 1RB)											
Horizontal-Up	100	QPSK 1_137	633334/3500	1:1	0.219	0.05	21.63	22.50	1.222	0.268	22.1
Horizontal-Down	100	QPSK 1_137	633334/3500	1:1	0.535	0.01	21.63	22.50	1.222	0.654	22.1
Vertical Front	100	QPSK 1_137	633334/3500	1:1	0.363	-0.09	21.63	22.50	1.222	0.444	22.1
Vertical Back	100	QPSK 1_137	633334/3500	1:1	0.082	0.04	21.63	22.50	1.222	0.100	22.1
Tip Mode	100	QPSK 1_137	633334/3500	1:1	0.088	0.03	21.63	22.50	1.222	0.108	22.1
Body Test data (Separate 10mm 50%RB)											
Horizontal-Up	100	QPSK 135_69	633334/3500	1:1	0.237	0.05	21.70	22.50	1.202	0.285	22.1
Horizontal-Down	100	QPSK 135_69	633334/3500	1:1	0.561	0.02	21.70	22.50	1.202	0.674	22.1
Vertical Front	100	QPSK 135_69	633334/3500	1:1	0.357	0.01	21.70	22.50	1.202	0.429	22.1
Vertical Back	100	QPSK 135_69	633334/3500	1:1	0.066	-0.15	21.70	22.50	1.202	0.079	22.1
Tip Mode	100	QPSK 135_69	633334/3500	1:1	0.088	0.04	21.70	22.50	1.202	0.106	22.1
Body Test data(Separate 10mm 1RB) for ENDC											
Horizontal-Up	100	QPSK 1_137	633334/3500	1:1	0.219	0.05	21.63	19.50	0.612	0.134	22.1
Horizontal-Down	100	QPSK 1_137	633334/3500	1:1	0.535	0.01	21.63	19.50	0.612	0.328	22.1
Vertical Front	100	QPSK 1_137	633334/3500	1:1	0.363	-0.09	21.63	19.50	0.612	0.222	22.1
Vertical Back	100	QPSK 1_137	633334/3500	1:1	0.082	0.04	21.63	19.50	0.612	0.050	22.1
Tip Mode	100	QPSK 1_137	633334/3500	1:1	0.088	0.03	21.63	19.50	0.612	0.054	22.1
Body Test data (Separate 10mm 50%RB) for ENDC											
Horizontal-Up	100	QPSK 135_69	633334/3500	1:1	0.237	0.05	21.70	19.50	0.603	0.143	22.1
Horizontal-Down	100	QPSK 135_69	633334/3500	1:1	0.561	0.02	21.70	19.50	0.603	0.338	22.1
Vertical Front	100	QPSK 135_69	633334/3500	1:1	0.357	0.01	21.70	19.50	0.603	0.215	22.1
Vertical Back	100	QPSK 135_69	633334/3500	1:1	0.066	-0.15	21.70	19.50	0.603	0.040	22.1
Tip Mode	100	QPSK 135_69	633334/3500	1:1	0.088	0.04	21.70	19.50	0.603	0.053	22.1
Sensor off Test data(Separat 1RB)											
Horizontal-Up-25mm	100	QPSK 1_137	633334/3500	1:1	0.153	-0.04	23.63	24.50	1.222	0.187	22.1
Horizontal-Down-14mm	100	QPSK 1_137	633334/3500	1:1	0.389	0.08	23.63	24.50	1.222	0.475	22.1
Vertical Front-23mm	100	QPSK 1_137	633334/3500	1:1	0.204	0.04	23.63	24.50	1.222	0.249	22.1
Vertical Back-23mm	100	QPSK 1_137	633334/3500	1:1	0.059	0.09	23.63	24.50	1.222	0.072	22.1
Tip Mode-23mm	100	QPSK 1_137	633334/3500	1:1	0.116	0.04	23.63	24.50	1.222	0.142	22.1
Sensor off Test data(Separat 50%RB)											
Horizontal-Up-25mm	100	QPSK 135_69	633334/3500	1:1	0.162	0.05	23.71	24.50	1.199	0.194	22.1
Horizontal-Down-14mm	100	QPSK 135_69	633334/3500	1:1	0.392	0.01	23.71	24.50	1.199	0.470	22.1
Vertical Front-23mm	100	QPSK 135_69	633334/3500	1:1	0.212	-0.09	23.71	24.50	1.199	0.254	22.1
Vertical Back-23mm	100	QPSK 135_69	633334/3500	1:1	0.050	0.04	23.71	24.50	1.199	0.060	22.1
Tip Mode-23mm	100	QPSK 135_69	633334/3500	1:1	0.115	0.03	23.71	24.50	1.199	0.138	22.1
SA N77 Part270 SAR Test Record											
Ant4 Test Record											



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Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data(Separate 10mm 1RB)											
Horizontal-Up	100	QPSK 1_1	656000/3840	1:1	0.451	0.05	20.17	21.50	1.358	0.613	22
Horizontal-Down	100	QPSK 1_1	656000/3840	1:1	0.345	0.04	20.17	21.50	1.358	0.469	22
Vertical Front	100	QPSK 1_1	656000/3840	1:1	0.359	-0.16	20.17	21.50	1.358	0.488	22
Vertical Back	100	QPSK 1_1	656000/3840	1:1	0.092	0.03	20.17	21.50	1.358	0.125	22
Tip Mode	100	QPSK 1_1	656000/3840	1:1	0.104	0.01	20.17	21.50	1.358	0.141	22
Body Test data (Separate 10mm 50%RB)											
Horizontal-Up	100	QPSK 135_69	656000/3840	1:1	0.496	-0.04	20.42	21.50	1.282	0.636	22
Horizontal-Down	100	QPSK 135_69	656000/3840	1:1	0.351	0.08	20.42	21.50	1.282	0.450	22
Vertical Front	100	QPSK 135_69	656000/3840	1:1	0.363	0.04	20.42	21.50	1.282	0.465	22
Vertical Back	100	QPSK 135_69	656000/3840	1:1	0.096	0.09	20.42	21.50	1.282	0.123	22
Tip Mode	100	QPSK 135_69	656000/3840	1:1	0.132	0.04	20.42	21.50	1.282	0.169	22
Body Test data(Separate 10mm 1RB) for ENDC											
Horizontal-Up	100	QPSK 1_1	656000/3840	1:1	0.451	0.05	20.17	18.50	0.681	0.307	22
Horizontal-Down	100	QPSK 1_1	656000/3840	1:1	0.345	0.04	20.17	18.50	0.681	0.235	22
Vertical Front	100	QPSK 1_1	656000/3840	1:1	0.359	-0.16	20.17	18.50	0.681	0.244	22
Vertical Back	100	QPSK 1_1	656000/3840	1:1	0.092	0.03	20.17	18.50	0.681	0.063	22
Tip Mode	100	QPSK 1_1	656000/3840	1:1	0.104	0.01	20.17	18.50	0.681	0.071	22
Body Test data (Separate 10mm 50%RB) for ENDC											
Horizontal-Up	100	QPSK 135_69	656000/3840	1:1	0.496	-0.04	20.42	18.50	0.643	0.319	22
Horizontal-Down	100	QPSK 135_69	656000/3840	1:1	0.351	0.08	20.42	18.50	0.643	0.226	22
Vertical Front	100	QPSK 135_69	656000/3840	1:1	0.363	0.04	20.42	18.50	0.643	0.233	22
Vertical Back	100	QPSK 135_69	656000/3840	1:1	0.096	0.09	20.42	18.50	0.643	0.062	22
Tip Mode	100	QPSK 135_69	656000/3840	1:1	0.132	0.04	20.42	18.50	0.643	0.085	22
Sensor off Test data(Separat 1RB)											
Horizontal-Up-25mm	100	QPSK 1_1	656000/3840	1:1	0.213	0.02	23.41	24.50	1.285	0.274	22
Horizontal-Down-14mm	100	QPSK 1_1	656000/3840	1:1	0.432	0.07	23.41	24.50	1.285	0.555	22
Vertical Front-23mm	100	QPSK 1_1	656000/3840	1:1	0.245	0.03	23.41	24.50	1.285	0.315	22
Vertical Back-23mm	100	QPSK 1_1	656000/3840	1:1	0.063	-0.04	23.41	24.50	1.285	0.081	22
Tip Mode-23mm	100	QPSK 1_1	656000/3840	1:1	0.115	0.05	23.41	24.50	1.285	0.148	22
Sensor off Test data(Separat 50%RB)											
Horizontal-Up-25mm	100	QPSK 135_69	656000/3840	1:1	0.227	-0.04	23.75	24.50	1.189	0.270	22
Horizontal-Down-14mm	100	QPSK 135_69	656000/3840	1:1	0.455	0.08	23.75	24.50	1.189	0.541	22
Vertical Front-23mm	100	QPSK 135_69	656000/3840	1:1	0.258	0.04	23.75	24.50	1.189	0.307	22
Vertical Back-23mm	100	QPSK 135_69	656000/3840	1:1	0.071	0.09	23.75	24.50	1.189	0.084	22
Tip Mode-23mm	100	QPSK 135_69	656000/3840	1:1	0.129	0.04	23.75	24.50	1.189	0.153	22
Ant6 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data(Separate 10mm 1RB)											



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Horizontal-Up	100	QPSK 1_1	656000/3840	1:1	0.261	0.02	21.69	22.50	1.205	0.315	22
Horizontal-Down	100	QPSK 1_1	656000/3840	1:1	0.575	0.07	21.69	22.50	1.205	0.693	22
Vertical Front	100	QPSK 1_1	656000/3840	1:1	0.241	0.03	21.69	22.50	1.205	0.290	22
Vertical Back	100	QPSK 1_1	656000/3840	1:1	0.080	-0.04	21.69	22.50	1.205	0.096	22
Tip Mode	100	QPSK 1_1	656000/3840	1:1	0.098	0.05	21.69	22.50	1.205	0.118	22
Body Test data (Separate 10mm 50%RB)											
Horizontal-Up	100	QPSK 135_69	656000/3840	1:1	0.387	0.05	22.10	22.50	1.096	0.424	22
Horizontal-Down	100	QPSK 135_69	656000/3840	1:1	0.615	-0.08	22.10	22.50	1.096	0.674	22
Vertical Front	100	QPSK 135_69	656000/3840	1:1	0.259	-0.09	22.10	22.50	1.096	0.284	22
Vertical Back	100	QPSK 135_69	656000/3840	1:1	0.080	0.01	22.10	22.50	1.096	0.088	22
Tip Mode	100	QPSK 135_69	656000/3840	1:1	0.108	0.05	22.10	22.50	1.096	0.118	22
Body Test data (Separate 10mm 1RB) for ENDC											
Horizontal-Up	100	QPSK 1_1	656000/3840	1:1	0.261	0.02	21.69	19.50	0.604	0.158	22
Horizontal-Down	100	QPSK 1_1	656000/3840	1:1	0.575	0.07	21.69	19.50	0.604	0.347	22
Vertical Front	100	QPSK 1_1	656000/3840	1:1	0.241	0.03	21.69	19.50	0.604	0.146	22
Vertical Back	100	QPSK 1_1	656000/3840	1:1	0.080	-0.04	21.69	19.50	0.604	0.048	22
Tip Mode	100	QPSK 1_1	656000/3840	1:1	0.098	0.05	21.69	19.50	0.604	0.059	22
Body Test data (Separate 10mm 50%RB) for ENDC											
Horizontal-Up	100	QPSK 135_69	656000/3840	1:1	0.387	0.05	22.10	19.50	0.550	0.213	22
Horizontal-Down	100	QPSK 135_69	656000/3840	1:1	0.615	-0.08	22.10	19.50	0.550	0.338	22
Vertical Front	100	QPSK 135_69	656000/3840	1:1	0.259	-0.09	22.10	19.50	0.550	0.142	22
Vertical Back	100	QPSK 135_69	656000/3840	1:1	0.080	0.01	22.10	19.50	0.550	0.044	22
Tip Mode	100	QPSK 135_69	656000/3840	1:1	0.108	0.05	22.10	19.50	0.550	0.059	22
Sensor off Test data (Separate 1RB)											
Horizontal-Up-25mm	100	QPSK 1_1	656000/3840	1:1	0.102	-0.04	23.36	24.50	1.300	0.133	22
Horizontal-Down-14mm	100	QPSK 1_1	656000/3840	1:1	0.464	0.08	23.36	24.50	1.300	0.603	22
Vertical Front-23mm	100	QPSK 1_1	656000/3840	1:1	0.231	0.04	23.36	24.50	1.300	0.300	22
Vertical Back-23mm	100	QPSK 1_1	656000/3840	1:1	0.059	0.09	23.36	24.50	1.300	0.077	22
Tip Mode-23mm	100	QPSK 1_1	656000/3840	1:1	0.111	0.04	23.36	24.50	1.300	0.144	22
Sensor off Test data (Separate 50%RB)											
Horizontal-Up-25mm	100	QPSK 135_69	656000/3840	1:1	0.125	0.02	23.75	24.50	1.189	0.149	22
Horizontal-Down-14mm	100	QPSK 135_69	656000/3840	1:1	0.489	0.07	23.75	24.50	1.189	0.581	22
Vertical Front-23mm	100	QPSK 135_69	656000/3840	1:1	0.245	0.03	23.75	24.50	1.189	0.291	22
Vertical Back-23mm	100	QPSK 135_69	656000/3840	1:1	0.050	-0.04	23.75	24.50	1.189	0.059	22
Tip Mode-23mm	100	QPSK 135_69	656000/3840	1:1	0.106	0.05	23.75	24.50	1.189	0.126	22

Table 12: SAR of NR 77 for Body.



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7.2.9 SAR Result of NR78

SA N78 SAR Test Record											
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data(Separate 10mm 1RB)											
Horizontal-Up	100	QPSK 1_137	633334/3500	1:1	0.461	0.06	20.75	22.00	1.334	0.615	22.1
Horizontal-Down	100	QPSK 1_137	633334/3500	1:1	0.470	0.07	20.75	22.00	1.334	0.627	22.1
Vertical Front	100	QPSK 1_137	633334/3500	1:1	0.420	0.02	20.75	22.00	1.334	0.560	22.1
Vertical Back	100	QPSK 1_137	633334/3500	1:1	0.109	0.19	20.75	22.00	1.334	0.145	22.1
Tip Mode	100	QPSK 1_137	633334/3500	1:1	0.197	-0.07	20.75	22.00	1.334	0.263	22.1
Body Test data (Separate 10mm 50%RB)											
Horizontal-Up	100	QPSK 135_69	633334/3500	1:1	0.523	-0.06	20.81	22.00	1.315	0.688	22.1
Horizontal-Down	100	QPSK 135_69	633334/3500	1:1	0.519	0.01	20.81	22.00	1.315	0.683	22.1
Vertical Front	100	QPSK 135_69	633334/3500	1:1	0.451	0.05	20.81	22.00	1.315	0.593	22.1
Vertical Back	100	QPSK 135_69	633334/3500	1:1	0.133	0.13	20.81	22.00	1.315	0.175	22.1
Tip Mode	100	QPSK 135_69	633334/3500	1:1	0.178	0.06	20.81	22.00	1.315	0.234	22.1
Body Test data(Separate 10mm 1RB) for ENDC											
Horizontal-Up	100	QPSK 1_137	633334/3500	1:1	0.461	0.06	20.75	19.00	0.668	0.308	22.1
Horizontal-Down	100	QPSK 1_137	633334/3500	1:1	0.470	0.07	20.75	19.00	0.668	0.314	22.1
Vertical Front	100	QPSK 1_137	633334/3500	1:1	0.420	0.02	20.75	19.00	0.668	0.281	22.1
Vertical Back	100	QPSK 1_137	633334/3500	1:1	0.109	0.19	20.75	19.00	0.668	0.073	22.1
Tip Mode	100	QPSK 1_137	633334/3500	1:1	0.197	-0.07	20.75	19.00	0.668	0.132	22.1
Body Test data (Separate 10mm 50%RB) for ENDC											
Horizontal-Up	100	QPSK 135_69	633334/3500	1:1	0.523	-0.06	20.81	19.00	0.659	0.345	22.1
Horizontal-Down	100	QPSK 135_69	633334/3500	1:1	0.519	0.01	20.81	19.00	0.659	0.342	22.1
Vertical Front	100	QPSK 135_69	633334/3500	1:1	0.451	0.05	20.81	19.00	0.659	0.297	22.1
Vertical Back	100	QPSK 135_69	633334/3500	1:1	0.133	0.13	20.81	19.00	0.659	0.088	22.1
Tip Mode	100	QPSK 135_69	633334/3500	1:1	0.178	0.06	20.81	19.00	0.659	0.117	22.1
Sensor off Test data(Separate 1RB)											
Horizontal-Up-25mm	100	QPSK 1_271	633334/3500	1:1	0.251	-0.09	23.75	25.00	1.334	0.335	22.1
Horizontal-Down-14mm	100	QPSK 1_271	633334/3500	1:1	0.506	0.04	23.75	25.00	1.334	0.675	22.1
Vertical Front-23mm	100	QPSK 1_271	633334/3500	1:1	0.367	0.02	23.75	25.00	1.334	0.489	22.1
Vertical Back-23mm	100	QPSK 1_271	633334/3500	1:1	0.063	0.09	23.75	25.00	1.334	0.084	22.1
Tip Mode-23mm	100	QPSK 1_271	633334/3500	1:1	0.211	0.03	23.75	25.00	1.334	0.281	22.1
Sensor off Test data(Separate 50%RB)											
Horizontal-Up-25mm	100	QPSK 135_69	633334/3500	1:1	0.272	-0.06	23.80	25.00	1.318	0.359	22.1
Horizontal-Down-14mm	100	QPSK 135_69	633334/3500	1:1	0.601	0.01	23.80	25.00	1.318	0.792	22.1
Vertical Front-23mm	100	QPSK 135_69	633334/3500	1:1	0.405	0.05	23.80	25.00	1.318	0.534	22.1
Vertical Back-23mm	100	QPSK 135_69	633334/3500	1:1	0.078	0.13	23.80	25.00	1.318	0.103	22.1
Tip Mode-23mm	100	QPSK 135_69	633334/3500	1:1	0.218	0.06	23.80	25.00	1.318	0.287	22.1



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Ant6 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data(Separate 10mm 1RB)											
Horizontal-Up	100	QPSK 1_271	633334/3500	1:1	0.128	-0.09	21.25	22.00	1.189	0.152	22.1
Horizontal-Down	100	QPSK 1_271	633334/3500	1:1	0.501	0.04	21.25	22.00	1.189	0.595	22.1
Vertical Front	100	QPSK 1_271	633334/3500	1:1	0.434	0.02	21.25	22.00	1.189	0.516	22.1
Vertical Back	100	QPSK 1_271	633334/3500	1:1	0.067	0.09	21.25	22.00	1.189	0.080	22.1
Tip Mode	100	QPSK 1_271	633334/3500	1:1	0.102	0.03	21.25	22.00	1.189	0.121	22.1
Body Test data (Separate 10mm 50%RB)											
Horizontal-Up	100	QPSK 135_69	633334/3500	1:1	0.149	0.06	21.27	22.00	1.183	0.176	22.1
Horizontal-Down	100	QPSK 135_69	633334/3500	1:1	0.523	0.02	21.27	22.00	1.183	0.619	22.1
Vertical Front	100	QPSK 135_69	633334/3500	1:1	0.437	0.04	21.27	22.00	1.183	0.517	22.1
Vertical Back	100	QPSK 135_69	633334/3500	1:1	0.112	0.02	21.27	22.00	1.183	0.133	22.1
Tip Mode	100	QPSK 135_69	633334/3500	1:1	0.136	-0.07	21.27	22.00	1.183	0.161	22.1
Body Test data(Separate 10mm 1RB) for ENDC											
Horizontal-Up	100	QPSK 1_271	633334/3500	1:1	0.128	-0.09	21.25	19.00	0.596	0.076	22.1
Horizontal-Down	100	QPSK 1_271	633334/3500	1:1	0.501	0.04	21.25	19.00	0.596	0.298	22.1
Vertical Front	100	QPSK 1_271	633334/3500	1:1	0.434	0.02	21.25	19.00	0.596	0.259	22.1
Vertical Back	100	QPSK 1_271	633334/3500	1:1	0.067	0.09	21.25	19.00	0.596	0.040	22.1
Tip Mode	100	QPSK 1_271	633334/3500	1:1	0.102	0.03	21.25	19.00	0.596	0.061	22.1
Body Test data (Separate 10mm 50%RB) for ENDC											
Horizontal-Up	100	QPSK 135_69	633334/3500	1:1	0.149	0.06	21.27	19.00	0.593	0.088	22.1
Horizontal-Down	100	QPSK 135_69	633334/3500	1:1	0.523	0.02	21.27	19.00	0.593	0.310	22.1
Vertical Front	100	QPSK 135_69	633334/3500	1:1	0.437	0.04	21.27	19.00	0.593	0.259	22.1
Vertical Back	100	QPSK 135_69	633334/3500	1:1	0.112	0.02	21.27	19.00	0.593	0.066	22.1
Tip Mode	100	QPSK 135_69	633334/3500	1:1	0.136	-0.07	21.27	19.00	0.593	0.081	22.1
Sensor off Test data(Separate 1RB)											
Horizontal-Up-25mm	100	QPSK 1_271	633334/3500	1:1	0.099	0.02	24.15	25.00	1.216	0.120	22.1
Horizontal-Down-14mm	100	QPSK 1_271	633334/3500	1:1	0.456	-0.07	24.15	25.00	1.216	0.555	22.1
Vertical Front-23mm	100	QPSK 1_271	633334/3500	1:1	0.302	0.06	24.15	25.00	1.216	0.367	22.1
Vertical Back-23mm	100	QPSK 1_271	633334/3500	1:1	0.051	0.11	24.15	25.00	1.216	0.062	22.1
Tip Mode-23mm	100	QPSK 1_271	633334/3500	1:1	0.165	0.01	24.15	25.00	1.216	0.201	22.1
Sensor off Test data(Separate 50%RB)											
Horizontal-Up-25mm	100	QPSK 135_69	633334/3500	1:1	0.092	-0.09	24.10	25.00	1.230	0.113	22.1
Horizontal-Down-14mm	100	QPSK 135_69	633334/3500	1:1	0.448	0.04	24.10	25.00	1.230	0.551	22.1
Vertical Front-23mm	100	QPSK 135_69	633334/3500	1:1	0.186	0.02	24.10	25.00	1.230	0.229	22.1
Vertical Back-23mm	100	QPSK 135_69	633334/3500	1:1	0.044	0.09	24.10	25.00	1.230	0.054	22.1
Tip Mode-23mm	100	QPSK 135_69	633334/3500	1:1	0.092	0.03	24.10	25.00	1.230	0.113	22.1
SA N78 SAR Test Record											
Ant4 Test Record											



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Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data(Separate 10mm 1RB)											
Horizontal-Up	100	QPSK 1_271	650000/3750	1:1	0.421	0.02	20.73	22.00	1.340	0.564	22.3
Horizontal-Down	100	QPSK 1_271	650000/3750	1:1	0.365	-0.07	20.73	22.00	1.340	0.489	22.3
Vertical Front	100	QPSK 1_271	650000/3750	1:1	0.397	0.06	20.73	22.00	1.340	0.532	22.3
Vertical Back	100	QPSK 1_271	650000/3750	1:1	0.066	0.11	20.73	22.00	1.340	0.088	22.3
Tip Mode	100	QPSK 1_271	650000/3750	1:1	0.098	0.01	20.73	22.00	1.340	0.131	22.3
Body Test data (Separate 10mm 50%RB)											
Horizontal-Up	100	QPSK 135_69	650000/3750	1:1	0.465	-0.09	20.77	22.00	1.327	0.617	22.3
Horizontal-Down	100	QPSK 135_69	650000/3750	1:1	0.387	0.08	20.77	22.00	1.327	0.514	22.3
Vertical Front	100	QPSK 135_69	650000/3750	1:1	0.411	0.02	20.77	22.00	1.327	0.546	22.3
Vertical Back	100	QPSK 135_69	650000/3750	1:1	0.110	-0.06	20.77	22.00	1.327	0.146	22.3
Tip Mode	100	QPSK 135_69	650000/3750	1:1	0.136	0.04	20.77	22.00	1.327	0.181	22.3
Body Test data(Separate 10mm 1RB) for ENDC											
Horizontal-Up	100	QPSK 1_271	650000/3750	1:1	0.421	0.02	20.73	19.00	0.671	0.283	22.3
Horizontal-Down	100	QPSK 1_271	650000/3750	1:1	0.365	-0.07	20.73	19.00	0.671	0.245	22.3
Vertical Front	100	QPSK 1_271	650000/3750	1:1	0.397	0.06	20.73	19.00	0.671	0.267	22.3
Vertical Back	100	QPSK 1_271	650000/3750	1:1	0.066	0.11	20.73	19.00	0.671	0.044	22.3
Tip Mode	100	QPSK 1_271	650000/3750	1:1	0.098	0.01	20.73	19.00	0.671	0.066	22.3
Body Test data (Separate 10mm 50%RB) for ENDC											
Horizontal-Up	100	QPSK 135_69	650000/3750	1:1	0.465	-0.09	20.77	19.00	0.665	0.309	22.3
Horizontal-Down	100	QPSK 135_69	650000/3750	1:1	0.387	0.08	20.77	19.00	0.665	0.257	22.3
Vertical Front	100	QPSK 135_69	650000/3750	1:1	0.411	0.02	20.77	19.00	0.665	0.273	22.3
Vertical Back	100	QPSK 135_69	650000/3750	1:1	0.110	-0.06	20.77	19.00	0.665	0.073	22.3
Tip Mode	100	QPSK 135_69	650000/3750	1:1	0.136	0.04	20.77	19.00	0.665	0.090	22.3
Sensor off Test data(Separate 1RB)											
Horizontal-Up-25mm	100	QPSK 1_271	650000/3750	1:1	0.222	0.06	23.70	25.00	1.349	0.299	22.3
Horizontal-Down-14mm	100	QPSK 1_271	650000/3750	1:1	0.476	0.11	23.70	25.00	1.349	0.642	22.3
Vertical Front-23mm	100	QPSK 1_271	650000/3750	1:1	0.303	-0.09	23.70	25.00	1.349	0.409	22.3
Vertical Back-23mm	100	QPSK 1_271	650000/3750	1:1	0.064	0.08	23.70	25.00	1.349	0.086	22.3
Tip Mode-23mm	100	QPSK 1_271	650000/3750	1:1	0.173	0.02	23.70	25.00	1.349	0.233	22.3
Sensor off Test data(Separate 50%RB)											
Horizontal-Up-25mm	100	QPSK 135_69	650000/3750	1:1	0.234	-0.07	23.75	25.00	1.334	0.312	22.3
Horizontal-Down-14mm	100	QPSK 135_69	650000/3750	1:1	0.500	0.06	23.75	25.00	1.334	0.667	22.3
Vertical Front-23mm	100	QPSK 135_69	650000/3750	1:1	0.312	0.11	23.75	25.00	1.334	0.416	22.3
Vertical Back-23mm	100	QPSK 135_69	650000/3750	1:1	0.075	0.01	23.75	25.00	1.334	0.100	22.3
Tip Mode-23mm	100	QPSK 135_69	650000/3750	1:1	0.184	0.06	23.75	25.00	1.334	0.245	22.3
Ant6 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data(Separate 10mm 1RB)											



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Horizontal-Up	100	QPSK 1_271	650000/3750	1:1	0.167	-0.01	21.10	22.00	1.230	0.205	22.3
Horizontal-Down	100	QPSK 1_271	650000/3750	1:1	0.537	0.05	21.10	22.00	1.230	0.661	22.3
Vertical Front	100	QPSK 1_271	650000/3750	1:1	0.351	-0.16	21.10	22.00	1.230	0.432	22.3
Vertical Back	100	QPSK 1_271	650000/3750	1:1	0.065	0.05	21.10	22.00	1.230	0.080	22.3
Tip Mode	100	QPSK 1_271	650000/3750	1:1	0.103	0.03	21.10	22.00	1.230	0.127	22.3
Body Test data (Separate 10mm 50%RB)											
Horizontal-Up	100	QPSK 135_69	650000/3750	1:1	0.196	0.07	21.15	22.00	1.216	0.238	22.3
Horizontal-Down	100	QPSK 135_69	650000/3750	1:1	0.585	0.12	21.15	22.00	1.216	0.711	22.3
Vertical Front	100	QPSK 135_69	650000/3750	1:1	0.375	0.03	21.15	22.00	1.216	0.456	22.3
Vertical Back	100	QPSK 135_69	650000/3750	1:1	0.093	0.07	21.15	22.00	1.216	0.113	22.3
Tip Mode	100	QPSK 135_69	650000/3750	1:1	0.125	0.03	21.15	22.00	1.216	0.152	22.3
Body Test data (Separate 10mm 1RB) for ENDC											
Horizontal-Up	100	QPSK 1_271	650000/3750	1:1	0.167	-0.01	21.10	19.00	0.617	0.103	22.3
Horizontal-Down	100	QPSK 1_271	650000/3750	1:1	0.537	0.05	21.10	19.00	0.617	0.331	22.3
Vertical Front	100	QPSK 1_271	650000/3750	1:1	0.351	-0.16	21.10	19.00	0.617	0.216	22.3
Vertical Back	100	QPSK 1_271	650000/3750	1:1	0.065	0.05	21.10	19.00	0.617	0.040	22.3
Tip Mode	100	QPSK 1_271	650000/3750	1:1	0.103	0.03	21.10	19.00	0.617	0.064	22.3
Body Test data (Separate 10mm 50%RB) for ENDC											
Horizontal-Up	100	QPSK 135_69	650000/3750	1:1	0.196	0.07	21.15	19.00	0.610	0.119	22.3
Horizontal-Down	100	QPSK 135_69	650000/3750	1:1	0.585	0.12	21.15	19.00	0.610	0.357	22.3
Vertical Front	100	QPSK 135_69	650000/3750	1:1	0.375	0.03	21.15	19.00	0.610	0.229	22.3
Vertical Back	100	QPSK 135_69	650000/3750	1:1	0.093	0.07	21.15	19.00	0.610	0.057	22.3
Tip Mode	100	QPSK 135_69	650000/3750	1:1	0.125	0.03	21.15	19.00	0.610	0.076	22.3
Sensor off Test data (Separate 1RB)											
Horizontal-Up-25mm	100	QPSK 1_271	650000/3750	1:1	0.133	-0.07	24.11	25.00	1.227	0.163	22.3
Horizontal-Down-14mm	100	QPSK 1_271	650000/3750	1:1	0.502	0.13	24.11	25.00	1.227	0.616	22.3
Vertical Front-23mm	100	QPSK 1_271	650000/3750	1:1	0.235	0.02	24.11	25.00	1.227	0.288	22.3
Vertical Back-23mm	100	QPSK 1_271	650000/3750	1:1	0.031	0.08	24.11	25.00	1.227	0.038	22.3
Tip Mode-23mm	100	QPSK 1_271	650000/3750	1:1	0.079	0.07	24.11	25.00	1.227	0.097	22.3
Sensor off Test data (Separate 50%RB)											
Horizontal-Up-25mm	100	QPSK 135_69	650000/3750	1:1	0.155	0.03	24.12	25.00	1.225	0.190	22.3
Horizontal-Down-14mm	100	QPSK 135_69	650000/3750	1:1	0.511	0.09	24.12	25.00	1.225	0.626	22.3
Vertical Front-23mm	100	QPSK 135_69	650000/3750	1:1	0.244	-0.11	24.12	25.00	1.225	0.299	22.3
Vertical Back-23mm	100	QPSK 135_69	650000/3750	1:1	0.045	0.02	24.12	25.00	1.225	0.055	22.3
Tip Mode-23mm	100	QPSK 135_69	650000/3750	1:1	0.098	0.08	24.12	25.00	1.225	0.120	22.3

Table 13: SAR of NR 78 for Body.



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7.2.10 SAR Result of WIFI 2.4G

Wi-Fi 2.4G MIMO SAR Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data (Separate 10mm)											
Horizontal-Up	802.11n	6-2437	100.00%	1.000	0.158	0.06	17.92	19.50	1.439	0.227	22.1
Horizontal-Down	802.11n	6-2437	100.00%	1.000	0.235	-0.04	17.92	19.50	1.439	0.338	22.1
Vertical Front	802.11n	6-2437	100.00%	1.000	0.076	0.01	17.92	19.50	1.439	0.109	22.1
Vertical Back	802.11n	6-2437	100.00%	1.000	0.061	-0.08	17.92	19.50	1.439	0.088	22.1
Tip Mode	802.11n	6-2437	100.00%	1.000	0.009	0.02	17.92	19.50	1.439	0.013	22.1
Body Test data											
Horizontal-Up-25mm	802.11n	6-2437	100.00%	1.000	0.064	0.07	17.92	19.50	1.439	0.092	22.1
Horizontal-Down-14mm	802.11n	6-2437	100.00%	1.000	0.128	-0.09	17.92	19.50	1.439	0.184	22.1
Vertical Front-23mm	802.11n	6-2437	100.00%	1.000	0.029	0.01	17.92	19.50	1.439	0.042	22.1
Vertical Back-23mm	802.11n	6-2437	100.00%	1.000	0.032	0.01	17.92	19.50	1.439	0.046	22.1
Tip Mode-23mm	802.11n	6-2437	100.00%	1.000	0.001	0.05	17.92	19.50	1.439	0.001	22.1

Table 14: SAR of WIFI 2.4G for Body.

Note:

As the 802.11n HT20 highest reported SAR is smaller than 1.2 W/kg, and the tune-up of the other 802.11 modes are not higher than 802.11n HT20, therefore the adjusted SAR is ≤ 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes are not required.



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7.2.11 SAR Result of WIFI 5G

Wi-Fi 5G MIMO SAR Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Body Test data (Separate 10mm)											
Horizontal-Up	802.11ac 80M	58/5290	100.00%	1.000	0.197	-0.02	16.10	17.00	1.230	0.242	22.2
Horizontal-Down	802.11ac 80M	58/5290	100.00%	1.000	0.421	0.01	16.10	17.00	1.230	0.518	22.2
Vertical Front	802.11ac 80M	58/5290	100.00%	1.000	0.062	0.05	16.10	17.00	1.230	0.076	22.2
Vertical Back	802.11ac 80M	58/5290	100.00%	1.000	0.464	-0.06	16.10	17.00	1.230	0.571	22.2
Tip Mode	802.11ac 80M	58/5290	100.00%	1.000	0.069	0.09	16.10	17.00	1.230	0.085	22.2
Body Test data (Separate 10mm)											
Horizontal-Up	802.11ac 80M	106/5530	100.00%	1.000	0.108	0.07	16.20	17.00	1.202	0.130	22.1
Horizontal-Down	802.11ac 80M	106/5530	100.00%	1.000	0.435	0.01	16.20	17.00	1.202	0.523	22.1
Vertical Front	802.11ac 80M	106/5530	100.00%	1.000	0.075	0.03	16.20	17.00	1.202	0.090	22.1
Vertical Back	802.11ac 80M	106/5530	100.00%	1.000	0.287	0.05	16.20	17.00	1.202	0.345	22.1
Tip Mode	802.11ac 80M	106/5530	100.00%	1.000	0.032	0.01	16.20	17.00	1.202	0.038	22.1
Body Test data											
Horizontal-Up-25mm	802.11ac 80M	58/5290	100.00%	1.000	0.042	-0.01	16.10	17.00	1.230	0.052	22.2
Horizontal-Down-14mm	802.11ac 80M	58/5290	100.00%	1.000	0.161	0.05	16.10	17.00	1.230	0.198	22.2
Vertical Front-23mm	802.11ac 80M	58/5290	100.00%	1.000	0.021	0.09	16.10	17.00	1.230	0.026	22.2
Vertical Back-23mm	802.11ac 80M	58/5290	100.00%	1.000	0.082	0.04	16.10	17.00	1.230	0.101	22.2
Tip Mode-23mm	802.11ac 80M	58/5290	100.00%	1.000	0.024	0.02	16.10	17.00	1.230	0.030	22.2
Body Test data											
Horizontal-Up-25mm	802.11ac 80M	106/5530	100.00%	1.000	0.032	0.03	16.20	17.00	1.202	0.038	22.1
Horizontal-Down-14mm	802.11ac 80M	106/5530	100.00%	1.000	0.157	0.04	16.20	17.00	1.202	0.189	22.1
Vertical Front-23mm	802.11ac 80M	106/5530	100.00%	1.000	0.035	0.07	16.20	17.00	1.202	0.042	22.1
Vertical Back-23mm	802.11ac 80M	106/5530	100.00%	1.000	0.094	0.03	16.20	17.00	1.202	0.113	22.1
Tip Mode-23mm	802.11ac 80M	106/5530	100.00%	1.000	0.011	0.05	16.20	17.00	1.202	0.013	22.1

Table 15: SAR of WIFI 5G for Body.

Note:

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



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7.3 Multiple Transmitter Evaluation

7.3.1 Simultaneous SAR SAR test evaluation

- Simultaneous Transmission Possibilities

NO	Simultaneous Tx Combination	Body
1	WWAN + WIFI 2.4G MIMO	Y
2	WWAN + WIFI 5G MIMO	Y
3	WWAN + WIFI 5G MIMO + WIFI 2.4G MIMO	Y

Note:

1. Simultaneous SAR is use MIMO cover SISO according to conducted power
2. StandaloneUL CA/ENDC Simultaneous SAR is don't distinguish between antenna and frequency band, and select the worst position value for evaluation



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7.3.2 Simultaneous Transmission SAR Summation Scenario

Simultaneous Transmission SAR Summation Scenario for WLAN Body:

Simultaneous Transmission SAR For SA

Test position		SARmax (W/kg)			Summed SAR
		Main	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	
LTE Band 2	Horizontal-Up	0.701	0.23	0.24	1.17
	Horizontal-Down	0.485	0.34	0.52	1.35
	Vertical Front	0.035	0.11	0.09	0.23
	Vertical Back	0.319	0.09	0.57	0.98
	Tip Mode	0.695	0.01	0.09	0.79
LTE Band 4	Horizontal-Up	0.588	0.23	0.24	1.06
	Horizontal-Down	0.696	0.34	0.52	1.56
	Vertical Front	0.031	0.11	0.09	0.23
	Vertical Back	0.139	0.09	0.57	0.80
	Tip Mode	0.008	0.01	0.09	0.11
LTE Band 7	Horizontal-Up	0.692	0.23	0.24	1.16
	Horizontal-Down	0.327	0.34	0.52	1.19
	Vertical Front	0.051	0.11	0.09	0.25
	Vertical Back	0.692	0.09	0.57	1.35
	Tip Mode	0.639	0.01	0.09	0.74
LTE Band 26	Horizontal-Up	0.622	0.23	0.24	1.09
	Horizontal-Down	0.384	0.34	0.52	1.25
	Vertical Front	0.234	0.11	0.09	0.43
	Vertical Back	0.215	0.09	0.57	0.87
	Tip Mode	0.169	0.01	0.09	0.27
LTE Band 41	Horizontal-Up	0.626	0.23	0.24	1.10
	Horizontal-Down	0.199	0.34	0.52	1.06
	Vertical Front	0.034	0.11	0.09	0.23
	Vertical Back	0.410	0.09	0.57	1.07
	Tip Mode	0.006	0.01	0.09	0.10
LTE Band 42	Horizontal-Up	0.492	0.23	0.24	0.96
	Horizontal-Down	0.352	0.34	0.52	1.21
	Vertical Front	0.273	0.11	0.09	0.47
	Vertical Back	0.069	0.09	0.57	0.73
	Tip Mode	0.047	0.01	0.09	0.15
5G NR n41	Horizontal-Up	0.699	0.230	0.240	1.17
	Horizontal-Down	0.425	0.340	0.520	1.29
	Vertical Front	0.061	0.110	0.090	0.26
	Vertical Back	0.790	0.090	0.570	1.45
	Tip Mode	0.125	0.010	0.090	0.23
5G NR n77 Part27Q	Horizontal-Up	0.678	0.23	0.24	1.15
	Horizontal-Down	0.674	0.34	0.52	1.54
	Vertical Front	0.498	0.11	0.09	0.70
	Vertical Back	0.144	0.09	0.57	0.80
	Tip Mode	0.196	0.01	0.09	0.29
5G NR n77 Part27O	Horizontal-Up	0.636	0.23	0.24	1.11
	Horizontal-Down	0.693	0.34	0.52	1.55
	Vertical Front	0.488	0.11	0.09	0.69
	Vertical Back	0.125	0.09	0.57	0.78
	Tip Mode	0.169	0.01	0.09	0.27
	Horizontal-Up	0.688	0.23	0.24	1.16



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5G NR n78 Part27Q	Horizontal-Down	0.683	0.34	0.52	1.54
	Vertical Front	0.593	0.11	0.09	0.79
	Vertical Back	0.175	0.09	0.57	0.83
	Tip Mode	0.263	0.01	0.09	0.36
5G NR n78 Part27O	Horizontal-Up	0.617	0.23	0.24	1.09
	Horizontal-Down	0.711	0.34	0.52	1.57
	Vertical Front	0.546	0.11	0.09	0.75
	Vertical Back	0.146	0.09	0.57	0.81
	Tip Mode	0.181	0.01	0.09	0.28

Simultaneous Transmission SAR For SA(WWAN Sensor Off)

Test position		SARmax (W/kg)			Summed SAR
		Main	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	
LTE Band 2	Horizontal-Up	0.580	0.092	0.052	0.72
	Horizontal-Down	0.925	0.184	0.198	1.31
	Vertical Front	0.063	0.042	0.042	0.15
	Vertical Back	0.414	0.046	0.113	0.57
	Tip Mode	1.118	0.001	0.030	1.15
LTE Band 4	Horizontal-Up	0.358	0.092	0.052	0.50
	Horizontal-Down	0.943	0.184	0.198	1.33
	Vertical Front	0.059	0.042	0.042	0.14
	Vertical Back	0.151	0.046	0.113	0.31
	Tip Mode	0.008	0.001	0.030	0.04
LTE Band 7	Horizontal-Up	0.739	0.092	0.052	0.88
	Horizontal-Down	0.895	0.184	0.198	1.28
	Vertical Front	0.103	0.042	0.042	0.19
	Vertical Back	1.093	0.046	0.113	1.25
	Tip Mode	1.006	0.001	0.030	1.04
LTE Band 26	Horizontal-Up	0.211	0.092	0.052	0.36
	Horizontal-Down	0.326	0.184	0.198	0.71
	Vertical Front	0.159	0.042	0.042	0.24
	Vertical Back	0.129	0.046	0.113	0.29
	Tip Mode	0.061	0.001	0.030	0.09
LTE Band 41	Horizontal-Up	0.155	0.092	0.052	0.30
	Horizontal-Down	0.408	0.184	0.198	0.79
	Vertical Front	0.054	0.042	0.042	0.14
	Vertical Back	0.445	0.046	0.113	0.60
	Tip Mode	0.006	0.001	0.030	0.04
LTE Band 42	Horizontal-Up	0.053	0.092	0.052	0.20
	Horizontal-Down	0.174	0.184	0.198	0.56
	Vertical Front	0.061	0.042	0.042	0.15
	Vertical Back	0.054	0.046	0.113	0.21
	Tip Mode	0.011	0.001	0.030	0.04
5G NR n41	Horizontal-Up	0.414	0.092	0.052	0.56
	Horizontal-Down	0.580	0.184	0.198	0.96
	Vertical Front	0.066	0.042	0.042	0.15
	Vertical Back	0.592	0.046	0.113	0.75
	Tip Mode	0.050	0.001	0.030	0.08
5G NR n77 Part27Q	Horizontal-Up	0.279	0.092	0.052	0.42
	Horizontal-Down	0.559	0.184	0.198	0.94
	Vertical Front	0.319	0.042	0.042	0.40
	Vertical Back	0.074	0.046	0.113	0.23



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	Tip Mode	0.195	0.001	0.030	0.23
5G NR n77 Part27O	Horizontal-Up	0.274	0.092	0.052	0.42
	Horizontal-Down	0.603	0.184	0.198	0.99
	Vertical Front	0.315	0.042	0.042	0.40
	Vertical Back	0.084	0.046	0.113	0.24
5G NR n78 Part27Q	Tip Mode	0.153	0.001	0.030	0.18
	Horizontal-Up	0.359	0.092	0.052	0.50
	Horizontal-Down	0.792	0.184	0.198	1.17
	Vertical Front	0.534	0.042	0.042	0.62
	Vertical Back	0.103	0.046	0.113	0.26
5G NR n78 Part27O	Tip Mode	0.287	0.001	0.030	0.32
	Horizontal-Up	0.312	0.092	0.052	0.46
	Horizontal-Down	0.667	0.184	0.198	1.05
	Vertical Front	0.416	0.042	0.042	0.50
	Vertical Back	0.100	0.046	0.113	0.26
	Tip Mode	0.245	0.001	0.030	0.28

Simultaneous Transmission SAR For ENDC

ENDC Test position		SARmax (W/kg)				Summed SAR
		LTE B2	N41	WiFi 2.4G	WiFi 5G	
		Ant 0	Ant1	MIMO	MIMO	
		1	2	3	4	
B2+N41	Horizontal-Up	0.325	0.350	0.227	0.242	1.17
	Horizontal-Down	0.166	0.213	0.338	0.523	1.45
	Vertical Front	0.019	0.031	0.109	0.09	0.51
	Vertical Back	0.036	0.396	0.088	0.571	0.91
	Tip Mode	0.391	0.063	0.013	0.085	0.23

ENDC Test position		SARmax (W/kg)				Summed SAR
		LTE B2 Ant 1	N78 Part27Q Ant4	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
		1	2	3	4	
B2+N78	Horizontal-Up	0.351	0.345	0.227	0.242	1.17
	Horizontal-Down	0.243	0.342	0.338	0.523	1.45
	Vertical Front	0.013	0.297	0.109	0.090	0.51
	Vertical Back	0.160	0.088	0.088	0.571	0.91
	Tip Mode	0.003	0.132	0.013	0.085	0.23

ENDC Test position		SARmax (W/kg)				Summed SAR
		LTE B2 Ant 1	N78 Part27O Ant4	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
		1	2	3	4	
B2+N78	Horizontal-Up	0.351	0.309	0.227	0.242	1.13
	Horizontal-Down	0.243	0.257	0.338	0.523	1.36
	Vertical Front	0.013	0.273	0.109	0.090	0.49
	Vertical Back	0.160	0.073	0.088	0.571	0.89
	Tip Mode	0.003	0.090	0.013	0.085	0.19

ENDC Test position	SARmax (W/kg)	Summed SAR
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		LTE B4 Ant 1	N78 Part27Q Ant4	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	1+2+3+4
B4+N78	Horizontal-Up	0.294	0.345	0.227	0.242	1.108
	Horizontal-Down	0.349	0.342	0.338	0.523	1.552
	Vertical Front	0.016	0.297	0.109	0.090	0.512
	Vertical Back	0.070	0.088	0.088	0.571	0.817
	Tip Mode	0.004	0.132	0.013	0.085	0.234

		SARmax (W/kg)				Summed SAR
ENDC Test position		LTE B4 Ant 1	N78 Part27Q Ant4	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B4+N78	Horizontal-Up	0.294	0.309	0.227	0.242	1.07
	Horizontal-Down	0.349	0.257	0.338	0.523	1.47
	Vertical Front	0.016	0.273	0.109	0.090	0.49
	Vertical Back	0.070	0.073	0.088	0.571	0.80
	Tip Mode	0.004	0.090	0.013	0.085	0.19

		SARmax (W/kg)				Summed SAR
ENDC Test position		LTE B5 Ant 0	N77 Part27Q Ant6	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B5+N77	Horizontal-Up	0.392	0.143	0.227	0.242	1.00
	Horizontal-Down	0.243	0.338	0.338	0.523	1.44
	Vertical Front	0.148	0.222	0.109	0.090	0.57
	Vertical Back	0.136	0.050	0.088	0.571	0.85
	Tip Mode	0.107	0.054	0.013	0.085	0.26

		SARmax (W/kg)				Summed SAR
ENDC Test position		LTE B5 Ant 0	N77 Part27Q Ant6	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B5+N77	Horizontal-Up	0.392	0.213	0.227	0.242	1.07
	Horizontal-Down	0.243	0.347	0.338	0.523	1.45
	Vertical Front	0.148	0.146	0.109	0.090	0.49
	Vertical Back	0.136	0.048	0.088	0.571	0.84
	Tip Mode	0.107	0.059	0.013	0.085	0.26

		SARmax (W/kg)				Summed SAR
ENDC Test position		B26(5) Ant 0	N78 Part27Q Ant6	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B26+N41	Horizontal-Up	0.392	0.088	0.227	0.242	0.95
	Horizontal-Down	0.243	0.310	0.338	0.523	1.41
	Vertical Front	0.148	0.259	0.109	0.090	0.61
	Vertical Back	0.136	0.066	0.088	0.571	0.86
	Tip Mode	0.107	0.081	0.013	0.085	0.29

ENDC Test position	SARmax (W/kg)	Summed SAR
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		B26(5) Ant 0	N78 Part27Q Ant6	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	1+2+3+4
B26(5)+N78	Horizontal-Up	0.392	0.088	0.227	0.242	0.95
	Horizontal-Down	0.243	0.310	0.338	0.523	1.41
	Vertical Front	0.148	0.259	0.109	0.090	0.61
	Vertical Back	0.136	0.066	0.088	0.571	0.86
	Tip Mode	0.107	0.081	0.013	0.085	0.29

		SARmax (W/kg)				Summed SAR
ENDC Test position		B26(5) Ant 0	N78 Part27Q Ant6	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B26(5)+N78	Horizontal-Up	0.392	0.119	0.227	0.242	0.98
	Horizontal-Down	0.243	0.357	0.338	0.523	1.46
	Vertical Front	0.148	0.229	0.109	0.090	0.58
	Vertical Back	0.136	0.057	0.088	0.571	0.85
	Tip Mode	0.107	0.076	0.013	0.085	0.28

		SARmax (W/kg)				Summed SAR
ENDC Test position		LTE B7 Ant 1	N77 Part27Q Ant4	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B7+N77	Horizontal-Up	0.355	0.340	0.227	0.242	1.16
	Horizontal-Down	0.184	0.295	0.338	0.523	1.34
	Vertical Front	0.029	0.249	0.109	0.090	0.48
	Vertical Back	0.389	0.072	0.088	0.571	1.12
	Tip Mode	0.001	0.098	0.013	0.085	0.20

		SARmax (W/kg)				Summed SAR
ENDC Test position		LTE B7 Ant 1	N77 Part27Q Ant4	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B7+N77	Horizontal-Up	0.355	0.319	0.227	0.242	1.14
	Horizontal-Down	0.184	0.235	0.338	0.523	1.28
	Vertical Front	0.029	0.244	0.109	0.090	0.47
	Vertical Back	0.389	0.063	0.088	0.571	1.11
	Tip Mode	0.001	0.085	0.013	0.085	0.18

		SARmax (W/kg)				Summed SAR
ENDC Test position		LTE B7 Ant 1	N78 Part27Q Ant4	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B7+N78	Horizontal-Up	0.355	0.345	0.227	0.242	1.17
	Horizontal-Down	0.184	0.342	0.338	0.523	1.39
	Vertical Front	0.029	0.297	0.109	0.090	0.53
	Vertical Back	0.389	0.088	0.088	0.571	1.14
	Tip Mode	0.001	0.132	0.013	0.085	0.23

ENDC Test position	SARmax (W/kg)	Summed SAR
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		LTE B7 Ant 1	N78 Part27O Ant4	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	1+2+3+4
B7+N78	Horizontal-Up	0.355	0.309	0.227	0.242	1.13
	Horizontal-Down	0.184	0.257	0.338	0.523	1.30
	Vertical Front	0.029	0.273	0.109	0.090	0.50
	Vertical Back	0.389	0.073	0.088	0.571	1.12
	Tip Mode	0.001	0.090	0.013	0.085	0.19

		SARmax (W/kg)				Summed SAR
ENDC Test position		LTE B41 Ant 1	N77 Part27Q Ant4	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B41+N77	Horizontal-Up	0.395	0.340	0.227	0.242	1.20
	Horizontal-Down	0.126	0.295	0.338	0.523	1.28
	Vertical Front	0.021	0.249	0.109	0.090	0.47
	Vertical Back	0.259	0.072	0.088	0.571	0.99
	Tip Mode	0.004	0.098	0.013	0.085	0.20

		SARmax (W/kg)				Summed SAR
ENDC Test position		LTE B41 Ant 1	N77 Part27O Ant4	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B41+N77	Horizontal-Up	0.395	0.319	0.227	0.242	1.18
	Horizontal-Down	0.126	0.235	0.338	0.523	1.22
	Vertical Front	0.021	0.244	0.109	0.090	0.46
	Vertical Back	0.259	0.063	0.088	0.571	0.98
	Tip Mode	0.004	0.085	0.013	0.085	0.19

		SARmax (W/kg)				Summed SAR
ENDC Test position		LTE B41 Ant 1	N78 Part27Q Ant4	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B41+N78	Horizontal-Up	0.395	0.345	0.227	0.242	1.21
	Horizontal-Down	0.126	0.342	0.338	0.523	1.33
	Vertical Front	0.021	0.297	0.109	0.090	0.52
	Vertical Back	0.259	0.088	0.088	0.571	1.01
	Tip Mode	0.004	0.132	0.013	0.085	0.23

		SARmax (W/kg)				Summed SAR
ENDC Test position		LTE B41 Ant 1	N78 Part27O Ant4	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B41+N78	Horizontal-Up	0.395	0.309	0.227	0.242	1.17
	Horizontal-Down	0.126	0.257	0.338	0.523	1.24
	Vertical Front	0.021	0.273	0.109	0.090	0.49
	Vertical Back	0.259	0.073	0.088	0.571	0.99
	Tip Mode	0.004	0.090	0.013	0.085	0.19



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Simultaneous Transmission SAR For UL CA

UL CA Test position		SARmax (W/kg)				Summed SAR
		LTE B2 Ant 0	LTE B4 Ant 1	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B2+B4	Horizontal-Up	0.325	0.294	0.227	0.242	1.09
	Horizontal-Down	0.166	0.349	0.338	0.523	1.38
	Vertical Front	0.019	0.016	0.109	0.090	0.23
	Vertical Back	0.036	0.070	0.088	0.571	0.77
	Tip Mode	0.391	0.004	0.013	0.085	0.49

UL CA Test position		SARmax (W/kg)				Summed SAR
		LTE B2 Ant 1	LTE B5 Ant 0	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B2+B5	Horizontal-Up	0.351	0.392	0.227	0.242	1.21
	Horizontal-Down	0.243	0.243	0.338	0.523	1.35
	Vertical Front	0.013	0.148	0.109	0.090	0.36
	Vertical Back	0.160	0.136	0.088	0.571	0.96
	Tip Mode	0.003	0.107	0.013	0.085	0.21

UL CA Test position		SARmax (W/kg)				Summed SAR
		LTE B2 Ant 0	LTE B7 Ant 1	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B2+B7	Horizontal-Up	0.325	0.355	0.227	0.242	1.15
	Horizontal-Down	0.166	0.184	0.338	0.523	1.21
	Vertical Front	0.019	0.029	0.109	0.090	0.25
	Vertical Back	0.036	0.389	0.088	0.571	1.08
	Tip Mode	0.391	0.001	0.013	0.085	0.49

UL CA Test position		SARmax (W/kg)				Summed SAR
		LTE B4 Ant 1	LTE B5 Ant 0	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B4+B5	Horizontal-Up	0.294	0.392	0.227	0.242	1.16
	Horizontal-Down	0.349	0.243	0.338	0.523	1.45
	Vertical Front	0.016	0.148	0.109	0.090	0.36
	Vertical Back	0.070	0.136	0.088	0.571	0.87
	Tip Mode	0.004	0.107	0.013	0.085	0.21

UL CA Test position		SARmax (W/kg)				Summed SAR
		LTE B4 Ant 1	LTE B7 Ant 0	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B4+B7	Horizontal-Up	0.294	0.389	0.227	0.242	1.15
	Horizontal-Down	0.349	0.383	0.338	0.523	1.59
	Vertical Front	0.016	0.142	0.109	0.090	0.36
	Vertical Back	0.070	0.018	0.088	0.571	0.75



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	Tip Mode	0.004	0.302	0.013	0.085	0.40
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UL CA Test position		SARmax (W/kg)				Summed SAR
		LTE B5 Ant 0	LTE B7 Ant 1	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B5+B7	Horizontal-Up	0.392	0.355	0.227	0.242	1.22
	Horizontal-Down	0.243	0.184	0.338	0.523	1.29
	Vertical Front	0.148	0.029	0.109	0.090	0.38
	Vertical Back	0.136	0.389	0.088	0.571	1.18
	Tip Mode	0.107	0.001	0.013	0.085	0.21

UL CA Test position		SARmax (W/kg)				Summed SAR
		LTE B41 Ant 1	LTE B42 Ant 4	WiFi 2.4G MIMO	WiFi 5G MIMO	
		1	2	3	4	
B41+B42	Horizontal-Up	0.395	0.391	0.227	0.242	1.26
	Horizontal-Down	0.126	0.352	0.338	0.523	1.34
	Vertical Front	0.021	0.273	0.109	0.090	0.49
	Vertical Back	0.259	0.055	0.088	0.571	0.97
	Tip Mode	0.004	0.047	0.013	0.085	0.15



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8 Equipment list

Test Platform		SPEAG DASY Professional				
Description		SAR Test System				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)				
Hardware Reference						
Equipment		Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
☒	Twin Phantom	SPEAG	SAM1	1770	NCR	NCR
☒	Twin Phantom	SPEAG	SAM5	1481	NCR	NCR
☒	DAE	SPEAG	DAE4	1455	2021-12-29	2022-12-28
☒	DAE	SPEAG	DAE4	1740	2022-08-03	2023-08-02
☒	E-Field Probe	SPEAG	EX3DV4	3789	2022-09-30	2023-09-29
☒	E-Field Probe	SPEAG	EX3DV4	7735	2022-08-09	2023-08-08
☒	Validation Kits	SPEAG	D835V2	4d256	2020-04-15	2023-04-14
☒	Validation Kits	SPEAG	D1750V2	1105	2020-08-29	2023-08-28
☒	Validation Kits	SPEAG	D1900V2	5d114	2020-08-27	2023-08-26
☒	Validation Kits	SPEAG	D2450V2	1038	2020-04-08	2023-04-07
☒	Validation Kits	SPEAG	D2600V2	1180	2021-05-12	2024-05-11
☒	Validation Kits	SPEAG	D3500V2	1124	2021-05-17	2024-05-16
☒	Validation Kits	SPEAG	D3700V2	1094	2021-05-17	2024-05-16
☒	Validation Kits	SPEAG	D3900V2	1071	2021-05-20	2024-05-19
☒	Validation Kits	SPEAG	D5GHzV2	1313	2022-01-25	2025-01-24
☒	Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2022-05-30	2023-05-29
☒	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0050920	2022-05-23	2023-05-22
☒	Universal Radio Communication Tester	R&S	CMW500	111637	2022-09-26	2023-09-26
☒	Radio Communication Analyzer	Anritsu	MT8821C	6261991088	2022-09-16	2023-09-15
☒	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
☒	Signal Generator	R&S	SMB100A	182393	2022-02-14	2023-02-13
☒	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR
☒	Power Meter	Anritsu	ML2495A	2136003	2021-12-04	2022-12-03
☒	Power Sensor	Anritsu	MA2411B	1911376	2021-12-04	2022-12-03
☒	Power Sensor	Keysight	U2002H	MY5639004	2022-9-16	2023-9-15



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☒	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
☒	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
☒	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
☒	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
☒	Speed reading thermometer	LKM	DTM3000	SUW201-30-01	2022-09-19	2023-09-18
☒	Humidity and Temperature Indicator	MingGao	MingGao	NA	2022-09-19	2023-09-18

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



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9 Calibration certificate

Please see the Appendix C

10 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

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