

FCC SAR EVALUATION REPORT

**In accordance with the requirements of
FCC 47 CFR Part 2(2.1093), ANSI/IEEE C95.1-1992 and
IEEE Std 1528-2013**

Product Name : 5G Wireless Data Terminal

Brand Name : GlocalMe

Model Name : GLMU21A01

Family Model : N/A

Report No. : S22011001902001

FCC ID : 2AC88-GLMU21A01

Prepared for

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TEST RESULT CERTIFICATION

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Product description

Product name.....: 5G Wireless Data Terminal
Brand Name: GlocalMe
Model and/or type reference .: GLMU21A01
Family Model.....: N/A

Standards: FCC 47 CFR Part 2(2.1093)
 ANSI/IEEE C95.1-1992
 IEEE Std 1528-2013
 Published RF exposure KDB procedures

This device described above has been tested by Shenzhen NTEK. In accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 and KDB 865664 D01. Testing has shown that this device is capable of compliance with localized specific absorption rate (SAR) specified in FCC 47 CFR Part 2(2.1093) and ANSI/IEEE C95.1-1992. The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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Date of Test

Date (s) of performance of tests: Jan. 13, 2022 ~ Feb. 18, 2022
Date of Issue: Apr. 09, 2022
Test Result.....: **Pass**

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 (Lab Manager) : (Alex Li)

※ ※ **Revision History** ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Apr. 09, 2022	Jacob Chen

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1. General Information

1.1. RF exposure limits

(A).Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

(B).Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

NOTE: **Whole-Body SAR** is averaged over the entire body, **partial-body SAR** is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. **SAR for hands, wrists, feet and ankles** is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Occupational/Controlled Environments:

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

General Population/Uncontrolled Environments:

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

NOTE
TRUNK LIMIT
1.6 W/kg
APPLIED TO THIS EUT

1.2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for GLMU21A01 are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)			
		PCE	DTS	NII	DSS
1-g Body-Worn (Separation distance of 10mm)		1.193	0.269	0.260	N/A
1-g Hotspot (Separation distance of 10mm)		1.193	0.269	0.260	N/A
Max Simultaneous Tx	Body-Worn	1.466	1.462	1.453	1.287
	Hotspot	1.466	1.462	1.453	1.287

Note: The Max Simultaneous Tx is calculated based on the same configuration and test position. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2(2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 & KDB 865664 D01.

1.3. EUT Description

Device Information	
Product Name	5G Wireless Data Terminal
Brand Name	GlocalMe
Model Name	GLMU21A01
Family Model	N/A
FCC ID	2AC88-GLMU21A01
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna Type	FPC Antenna
Battery Information	DC 3.8V, 5400mAh, 20.52Wh
Hardware version	N/A
Software version	N/A
Device Operating Configurations	
Supporting Mode(s)	WCDMA Band 2/4/5, LTE Band 2/4/5/7/12/13/17/25/26/41/66, NR SA N2/N5/N12/N25/N41/N66/N77, NR NSA N77+LTE Band 2, WLAN 2.4G/5G, Bluetooth
Test Modulation	WCDMA(QPSK), LTE(QPSK/16QAM), NR(DFT-s-OFDM:PI/2 BPSK/QPSK/16-QAM/64QAM/256QAM, CP-OFDM: QPSK/16-QAM/64QAM/256QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, π/4-DQPSK, 8DPSK)

Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 13	777-787	746-756
	LTE Band 17	704-716	734-746
	LTE Band 25	1850-1915	1930-1995
	LTE Band 26	814-849	859-894
	LTE Band 41	2496-2690	
	LTE Band 66	1710-1780	2110-2200
	NR SA N2	1850-1910	1930-1990
	NR SA N5	824-849	869-894
	NR SA N12	699-716	729-746
	NR SA N25	1850-1915	1930-1995
	NR SA N41	2496-2690	
	NR SA N66	1710-1780	2110-2200
	NR SA N77	3700-3980	
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
WLAN 5.3G	5260-5320		
WLAN 5.6G	5500-5700		
WLAN 5.8G	5745-5825		
Bluetooth	2402-2480		
Power Class	3, tested with power control "all 1"(WCDMA Band 2)		
	3, tested with power control "all 1"(WCDMA Band 4)		
	3, tested with power control "all 1"(WCDMA Band 5)		
	3, tested with power control all Max.(LTE Band 2)		
	3, tested with power control all Max.(LTE Band 4)		
	3, tested with power control all Max.(LTE Band 5)		
	3, tested with power control all Max.(LTE Band 7)		
	3, tested with power control all Max.(LTE Band 12)		
	3, tested with power control all Max.(LTE Band 13)		
	3, tested with power control all Max.(LTE Band 17)		
	3, tested with power control all Max.(LTE Band 25)		

	3, tested with power control all Max.(LTE Band 26)
	3, tested with power control all Max.(LTE Band 41)
	3, tested with power control all Max.(LTE Band 66)
	3, tested with power control all Max.(NR SA N2)
	3, tested with power control all Max.(NR SA N5)
	3, tested with power control all Max.(NR SA N12)
	3, tested with power control all Max.(NR SA N25)
	3, tested with power control all Max.(NR SA N41)
	3, tested with power control all Max.(NR SA N66)
	3, tested with power control all Max.(NR SA N77)

1.4. Test specification(s)

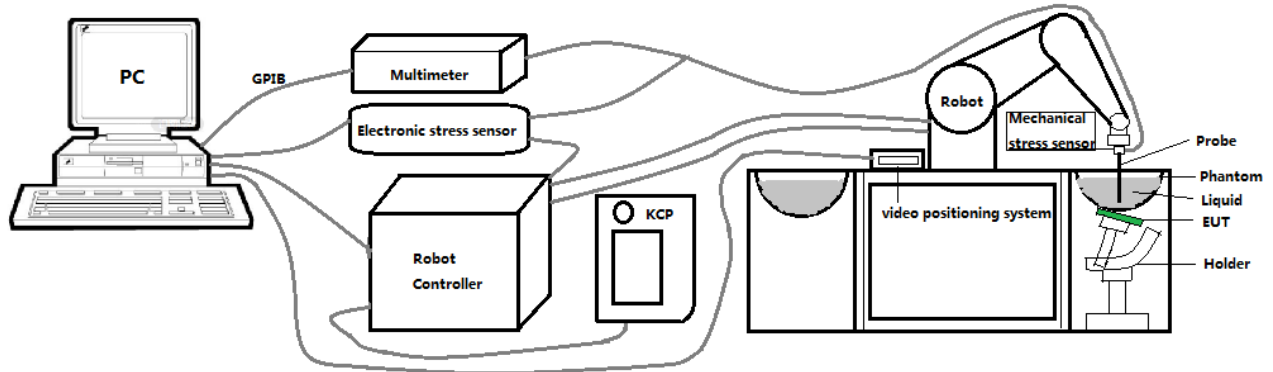
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting
KDB 447498 D01 General RF Exposure Guidance
KDB 248227 D01 802.11 Wi-Fi SAR
KDB 941225 D01 3G SAR Procedures
KDB 941225 D05 SAR for LTE Devices
KDB 941225 D06 Hotspot SAR
KDB 648474 D04 Handset SAR

1.5. Ambient Condition

Ambient temperature	20°C – 24°C
Relative Humidity	30% – 70%

2. SAR Measurement System

2.1. SATIMO SAR Measurement Set-up Diagram



These measurements were performed with the automated near-field scanning system OPENSAR from SATIMO. The system is based on a high precision robot (working range: 901 mm), which positions the probes with a positional repeatability of better than ± 0.03 mm. The SAR measurements were conducted with dosimetric probe (manufactured by SATIMO), designed in the classical triangular configuration and optimized for dosimetric evaluation.

The first step of the field measurement is the evaluation of the voltages induced on the probe by the device under test. Probe diode detectors are nonlinear. Below the diode compression point, the output voltage is proportional to the square of the applied E-field; above the diode compression point, it is linear to the applied E-field. The compression point depends on the diode, and a calibration procedure is necessary for each sensor of the probe.

The Keithley multimeter reads the voltage of each sensor and send these three values to the PC. The corresponding E field value is calculated using the probe calibration factors, which are stored in the working directory. This evaluation includes linearization of the diode characteristics. The field calculation is done separately for each sensor. Each component of the E field is displayed on the "Dipole Area Scan Interface" and the total E field is displayed on the "3D Interface"

2.2. Robot

The SATIMO SAR system uses the high precision robots from KUKA. For the 6-axis controller system, the robot controller version (KUKA) from KUKA is used. The KUKA robot series have many features that are important for our application:



- High precision (repeatability ± 0.03 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

2.3. E-Field Probe

This E-field detection probe is composed of three orthogonal dipoles linked to special Schottky diodes with low detection thresholds. The probe allows the measurement of electric fields in liquids such as the one defined in the IEEE and CENELEC standards.

For the measurements the Specific Dosimetric E-Field Probe SN 08/16 EPGO287 with following specifications is used



- Dynamic range: 0.01-100 W/kg
 - Tip Diameter : 2.5 mm
 - Distance between probe tip and sensor center: 1 mm
 - Distance between sensor center and the inner phantom surface: 2 mm (repeatability better than ± 1 mm).
 - Probe linearity: ± 0.08 dB
 - Axial isotropy: ± 0.01 dB
 - Hemispherical Isotropy: ± 0.01 dB
 - Calibration range: 650MHz to 5900MHz for head & body simulating liquid.
 - Lower detection limit: 8mW/kg
- Angle between probe axis (evaluation axis) and surface normal line: less than 30° .

2.3.1. E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy shall be evaluated and within ± 0.25 dB. The sensitivity parameters (Norm X, Norm Y, and Norm Z), the diode compression parameter (DCP) and the conversion factor (Conv F) of the probe are tested. The calibration data can be referred to appendix D of this report.

2.4. SAM phantoms

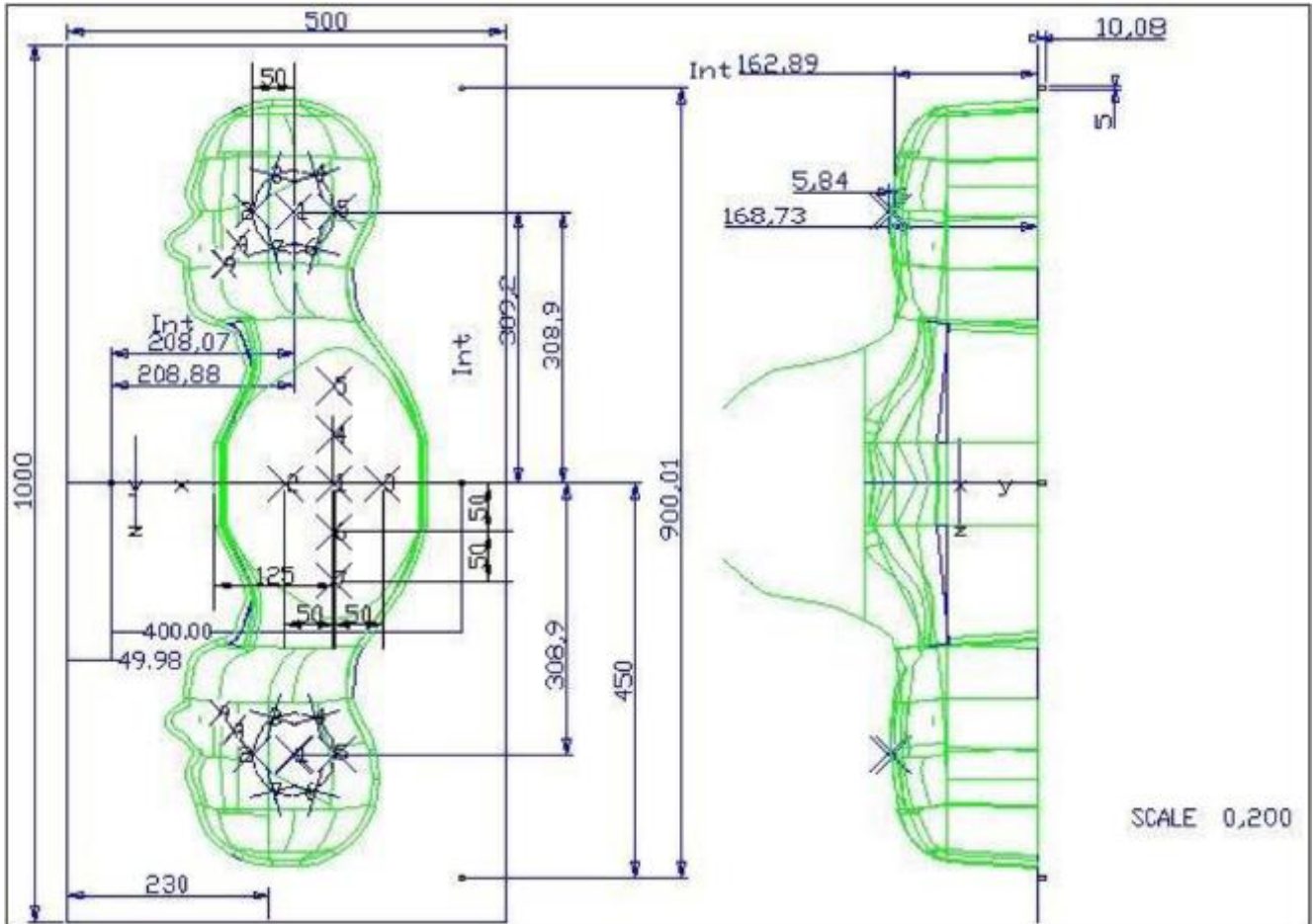
Photo of SAM phantom SN 16/15 SAM119



The SAM phantom is used to measure the SAR relative to people exposed to electro-magnetic field radiated by mobile phones.

2.4.1. Technical Data

Serial Number	Shell thickness	Filling volume	Dimensions	Positionner Material	Permittivity	Loss Tangent
SN 16/15 SAM119	2 mm ±0.2 mm	27 liters	Length:1000 mm Width:500 mm Height:200 mm	Gelcoat with fiberglass	3.4	0.02

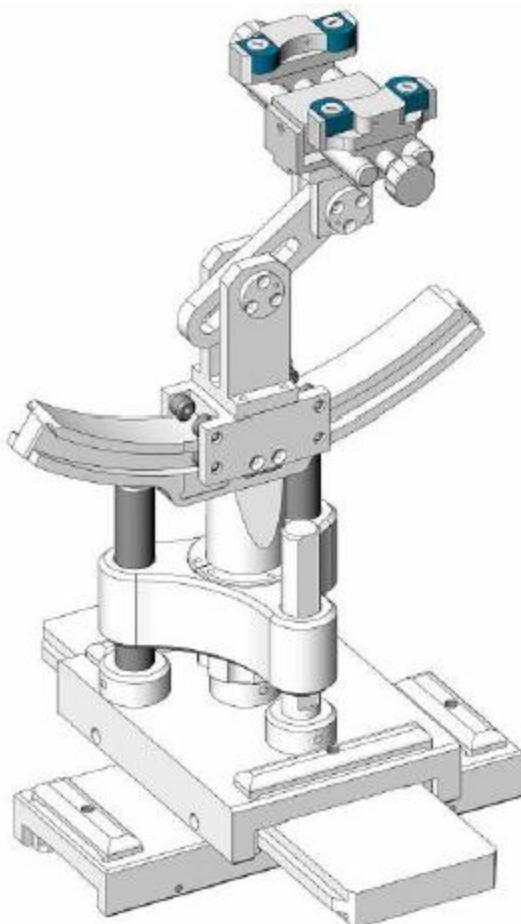


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
	1	2	1	2	1	2
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

The test, based on ultrasonic system, allows measuring the thickness with an accuracy of 10 µm.

2.5. Device Holder

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1 degree.



Serial Number	Holder Material	Permittivity	Loss Tangent
SN 16/15 MSH100	Delrin	3.7	0.005

2.6. Test Equipment List

This table gives a complete overview of the SAR measurement equipment.

Devices used during the test described are marked

	Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
					Last Cal.	Due Date
<input checked="" type="checkbox"/>	MVG	E FIELD PROBE	SSE2	SN 08/16 EPGO287	Mar. 01, 2021	Feb. 28, 2022
<input checked="" type="checkbox"/>	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Mar. 01, 2021	Feb. 28, 2024
<input type="checkbox"/>	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Mar. 01, 2021	Feb. 28, 2024
<input type="checkbox"/>	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	3700 MHz Dipole	SID3700	SN 09/12 DIP 3G/700-361	Oct. 15 2021	Oct. 14 2024
<input checked="" type="checkbox"/>	MVG	3900 MHz Dipole	SID3900	SN 09/12 DIP 3G/900-362	Oct. 15 2021	Oct. 14 2024
<input checked="" type="checkbox"/>	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Mar. 01, 2021	Feb. 28, 2024
<input checked="" type="checkbox"/>	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	NCR	NCR
<input checked="" type="checkbox"/>	MVG	Power Amplifier	N.A	AMPLISAR_28/14_003	NCR	NCR
<input checked="" type="checkbox"/>	KEITHLEY	Millivoltmeter	2000	4072790	NCR	NCR
<input checked="" type="checkbox"/>	R&S	Universal radio communication tester	CMU200	117858	Jul. 01, 2021	Jun. 30, 2022
<input checked="" type="checkbox"/>	R&S	Wideband radio communication tester	CMW500	103917	Jul. 01, 2021	Jun. 30, 2022

<input checked="" type="checkbox"/>	HP	Network Analyzer	8753D	3410J01136	Jul. 01, 2021	Jun. 30, 2022
<input checked="" type="checkbox"/>	Agilent	PSG Analog Signal Generator	E8257D	MY51110112	Jul. 01, 2021	Jun. 30, 2022
<input checked="" type="checkbox"/>	Agilent	Power meter	E4419B	MY45102538	Jul. 01, 2021	Jun. 30, 2022
<input checked="" type="checkbox"/>	Agilent	Power sensor	E9301A	MY41495644	Jul. 01, 2021	Jun. 30, 2022
<input checked="" type="checkbox"/>	Agilent	Power sensor	E9301A	US39212148	Jul. 01, 2021	Jun. 30, 2022
<input checked="" type="checkbox"/>	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Jul. 01, 2021	Jun. 30, 2022
<input checked="" type="checkbox"/>	Anritsu	Radio Communication Analyzer	MT8821C	SN 6262186364	Nov. 04, 2021	Nov. 03, 2022
<input checked="" type="checkbox"/>	Anritsu	Radio Communication Test Station	MT8000A	SN 6262192315	Nov. 04, 2021	Nov. 03, 2022

3. SAR Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

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

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT Wi-Fi/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix A demonstrates.
- (c) Set scan area, grid size and other setting on the OPENSAR software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band.
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

3.1. Power Reference

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

3.2. Area scan & Zoom scan

The area scan is a 2D scan to find the hot spot location on the DUT. The zoom scan is a 3D scan

above the hot spot to calculate the 1g and 10g SAR value.

Measurement of the SAR distribution with a grid of 8 to 16 mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8 * 4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

From the scanned SAR distribution, identify the position of the maximum SAR value, in addition identify the positions of any local maxima with SAR values within 2 dB of the maximum value that will not be within the zoom scan of other peaks; additional peaks shall be measured only when the primary peak is within 2 dB of the SAR compliance limit (e.g., 1 W/kg for 1,6 W/kg 1 g limit, or 1,26 W/kg for 2 W/kg, 10 g limit).

Area scan & Zoom scan scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

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

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

3.3. Description of interpolation/extrapolation scheme

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimise measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is used to determine these highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1 mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10 grams and 1 gram requires a very fine resolution in the three dimensional scanned data array.

3.4. Volumetric Scan

The volumetric scan consists to a full 3D scan over a specific area. This 3D scan is useful for multi Tx SAR measurement. Indeed, it is possible with OpenSAR to add, point by point, several volumetric scans to calculate the SAR value of the combined measurement as it is defined in the standard IEEE1528 and IEC62209.

3.5. Power Drift

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In OpenSAR measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in V/m. If the power drifts more than $\pm 5\%$, the SAR will be retested.

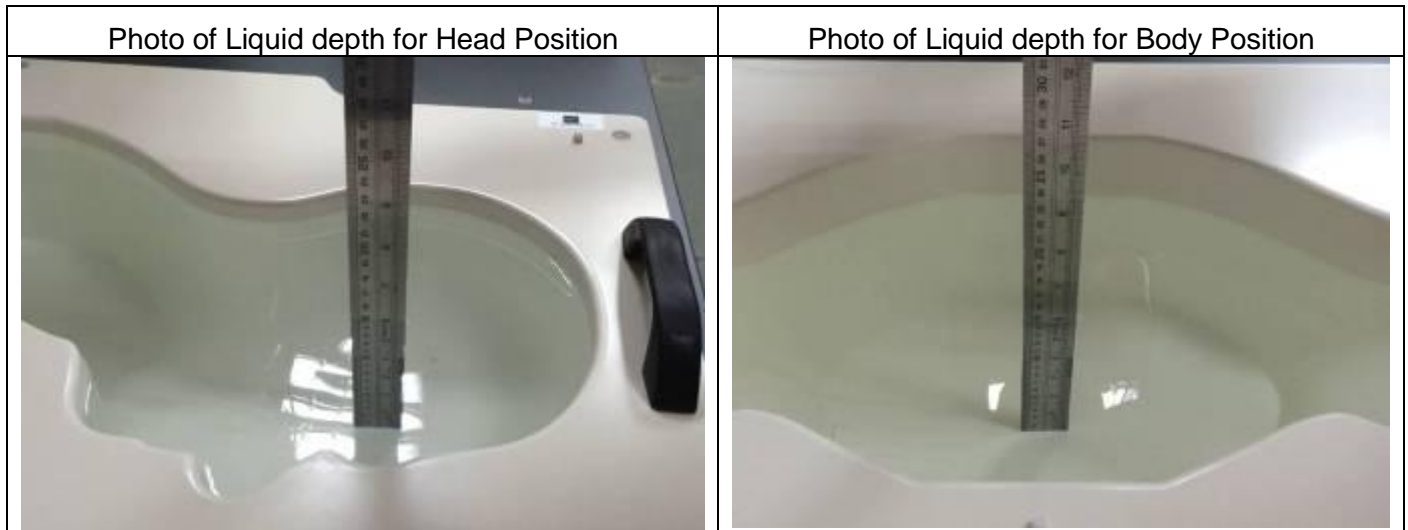
4. System Verification Procedure

4.1. Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Ingredients (% of weight)	Head Tissue									
	750	835	900	1800	1900	2000	2450	2600	5200	5800
Frequency Band (MHz)										
Water	34.40	34.40	34.40	55.36	55.36	57.87	57.87	57.87	65.53	65.53
NaCl	0.79	0.79	0.79	0.35	0.35	0.16	0.16	0.16	0.00	0.00
1,2-Propanediol	64.81	64.81	64.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	30.45	30.45	19.97	19.97	19.97	24.24	24.24
DGBE	0.00	0.00	0.00	13.84	13.84	22.00	22.00	22.00	10.23	10.23

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid depth from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm.



4.1.1. Tissue Dielectric Parameter Check Results

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.

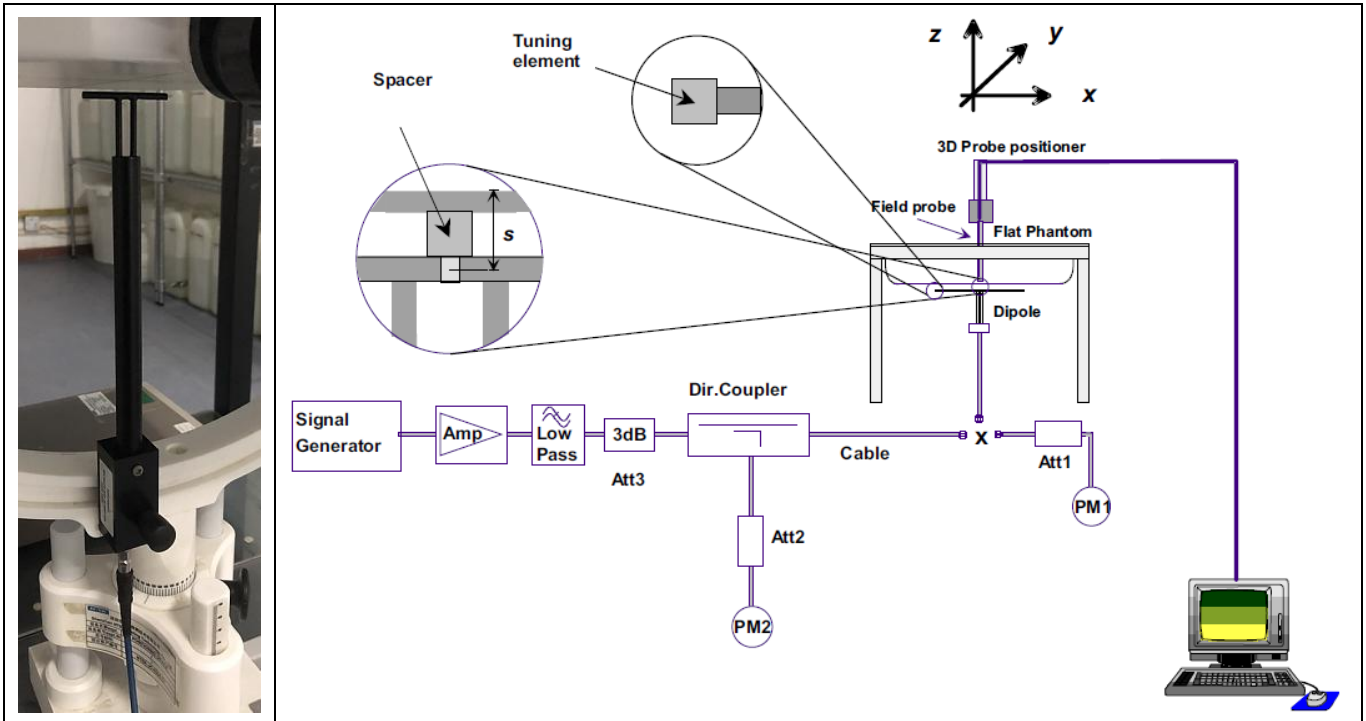
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		ϵ_r ($\pm 5\%$)	σ (S/m) ($\pm 5\%$)	ϵ_r	σ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	41.57	0.90	21.3 °C	Jan. 18, 2022
Head 850	835	41.50 (39.43~43.58)	0.90 (0.86~0.95)	42.78	0.92	21.7 °C	Jan. 13, 2022
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	39.37	1.40	21.7 °C	Jan. 14, 2022
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	38.84	1.46	21.4 °C	Jan. 25, 2022
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	39.07	1.83	21.8 °C	Feb. 11, 2022
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	39.07	2.02	21.4 °C	Jan. 20, 2022
Head 3700	3700	37.70 (35.82~39.59)	3.12 (2.97~3.27)	37.87	3.04	21.8 °C	Feb. 18, 2022
Head 3900	3900	37.47 (35.60~39.30)	3.32 (3.16~3.48)	38.00	3.28	21.8 °C	Feb. 18, 2022
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	36.86	4.73	21.6 °C	Feb. 15, 2022
Head 5600	5600	35.50 (33.73~37.28)	5.07 (4.82~5.32)	36.08	5.02	21.6 °C	Feb. 17, 2022
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	35.85	5.39	21.8 °C	Feb. 16, 2022

NOTE: The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.

4.2. System Verification Procedure

The system verification is performed for verifying the accuracy of the complete measurement system and performance of the software. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. It is fed with a power of 100mW (below 5GHz) or 100mW (above 5GHz). To adjust this power a power meter is used. The power sensor is connected to the cable before the system verification to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the system verification to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

The system verification is shown as below picture:



4.2.1. System Verification Results

Comparing to the original SAR value provided by SATIMO, the verification data should be within its specification of $\pm 10\%$. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance verification can meet the variation criterion and the plots can be referred to Appendix B of this report.

System Verification	Target SAR (1W) ($\pm 10\%$)		Measured SAR (Normalized to 1W)		Liquid Temp.	Test Date
	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)		
750MHz	8.53 (7.68~9.38)	5.56 (5.01~6.11)	9.28	5.19	21.3 °C	Jan. 18, 2022
835MHz	9.84 (8.86~10.82)	6.22 (5.60~6.84)	9.04	6.07	21.7 °C	Jan. 13, 2022
1800MHz	37.96 (34.17~41.75)	19.81 (17.83~21.79)	38.95	21.02	21.7 °C	Jan. 14, 2022
1900MHz	40.37 (36.34~44.40)	20.48 (18.44~22.52)	43.00	19.97	21.4 °C	Jan. 25, 2022
2450MHz	53.69 (48.33~59.05)	23.94 (21.55~26.33)	54.38	22.85	21.8 °C	Feb. 11, 2022
2600MHz	55.83 (50.25~61.41)	24.19 (21.78~26.60)	56.94	22.81	21.4 °C	Jan. 20, 2022
3700MHz	66.30 (59.67~72.93)	24.16 (22.96~26.57)	66.20	23.09	21.8 °C	Feb. 18, 2022
3900MHz	69.12 (62.21~76.03)	23.88 (21.50~26.26)	67.20	24.30	21.8 °C	Feb. 18, 2022
5200MHz	162.34 (146.11~178.57)	55.42 (49.88~60.96)	178.05	57.81	21.6 °C	Feb. 15, 2022
5600MHz	174.92 (157.43~192.41)	58.63 (52.77~64.49)	178.69	59.93	21.6 °C	Feb. 17, 2022
5800MHz	178.89 (161.01~196.77)	59.32 (53.39~65.25)	175.11	56.66	21.8 °C	Feb. 16, 2022

5. SAR Measurement variability and uncertainty

5.1. SAR measurement variability

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

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

5.2. 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.

6. RF Exposure Positions

6.1. Body Worn Accessory

1. Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6.4.1). Per KDB 648474 D04, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is $< 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.
2. Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

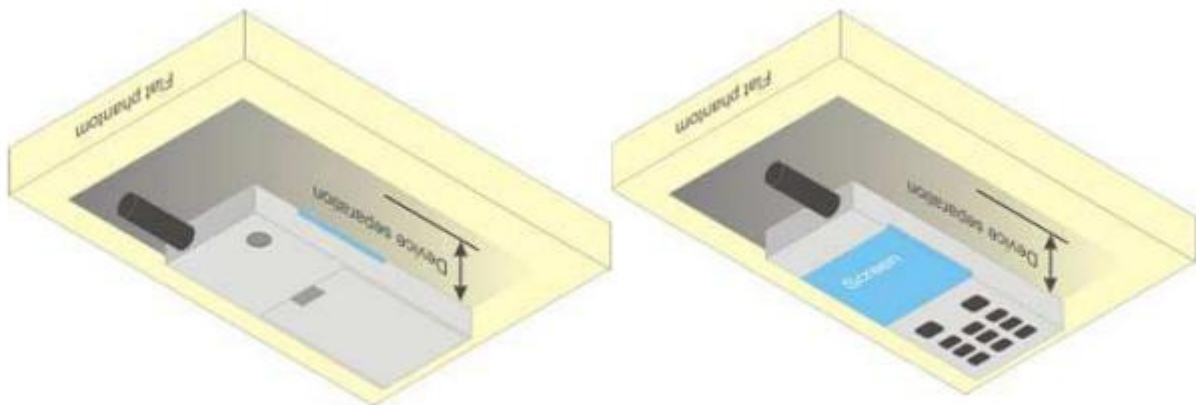


Figure 6.4.1 – Test positions for body-worn devices

6.2. Wireless Router Devices

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WLAN simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from

general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WLAN transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WLAN transmitter according to FCC KDB Publication 447498 D01 publication procedures. The “Portable Hotspot” feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

7. RF Output Power

7.1. WCDMA Conducted Power

Band	WCDMA Band 2			
Tx Channel	Tune-up	9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
RMC 12.2Kbps	24.50	23.70	23.88	23.97
HSDPA Subtest-1	24.00	23.78	23.90	23.98
HSDPA Subtest-2	24.50	23.76	23.89	24.02
HSDPA Subtest-3	24.00	23.80	23.92	24.00
HSDPA Subtest-4	24.00	23.76	23.85	23.99
HSUPA Subtest-1	23.00	22.67	22.88	22.88
HSUPA Subtest-2	21.50	20.93	20.97	21.08
HSUPA Subtest-3	22.00	21.56	21.68	21.74
HSUPA Subtest-4	21.00	20.78	20.95	20.87
HSUPA Subtest-5	23.50	22.68	22.94	23.03
Band	WCDMA Band 4			
Tx Channel	Tune-up	1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
RMC 12.2Kbps	22.00	21.30	21.59	21.32
HSDPA Subtest-1	23.00	22.69	22.78	22.71
HSDPA Subtest-2	21.50	20.69	20.81	21.49
HSDPA Subtest-3	20.50	20.13	19.54	20.17
HSDPA Subtest-4	20.00	18.53	19.19	19.94
HSUPA Subtest-1	23.00	22.73	22.90	22.74
HSUPA Subtest-2	21.00	20.80	20.18	20.66
HSUPA Subtest-3	22.00	21.64	21.39	21.15
HSUPA Subtest-4	21.00	20.98	20.63	20.44
HSUPA Subtest-5	23.00	22.74	22.74	22.52
Band	WCDMA Band 5			
Tx Channel	Tune-up	4132	4183	4233
Frequency (MHz)		826.4	836.6	846.6
RMC 12.2Kbps	25.50	25.07	25.07	25.10
HSDPA Subtest-1	25.50	25.08	25.09	25.09
HSDPA Subtest-2	25.50	25.10	25.08	25.10
HSDPA Subtest-3	25.50	25.11	25.09	25.10
HSDPA Subtest-4	25.50	25.09	25.13	25.13
HSUPA Subtest-1	24.50	23.97	24.00	24.09
HSUPA Subtest-2	22.50	22.21	22.23	22.11

HSUPA Subtest-3	23.50	22.76	23.15	22.77
HSUPA Subtest-4	22.50	22.01	22.03	22.03
HSUPA Subtest-5	24.50	24.02	24.15	24.00

7.2. LTE Conducted Power

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	24.00	23.47	23.39	23.58
			1	2	24.00	23.54	23.44	23.60
			1	5	24.00	23.37	23.31	23.44
			3	0	24.00	23.37	23.60	23.58
			3	1	24.00	23.45	23.59	23.61
			3	2	24.00	23.43	23.52	23.58
		16QAM	6	0	23.00	22.44	22.54	22.64
			1	0	23.00	22.33	22.41	22.46
			1	2	23.00	22.36	22.34	22.50
			1	5	23.00	22.35	22.35	22.35
			3	0	24.00	23.48	23.56	23.63
			3	1	24.00	23.46	23.56	23.56
			3	2	24.00	23.35	23.51	23.61
			6	0	22.00	21.29	21.59	21.63
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band 2	3MHz	QPSK	1	0	24.00	23.45	23.55	23.48
			1	7	24.00	23.53	23.58	23.46
			1	14	24.00	23.36	23.32	23.43
			8	0	23.00	22.65	22.63	22.42
			8	4	23.00	22.50	22.47	22.28
			8	7	23.00	22.52	22.38	22.28
			15	0	23.00	22.47	22.57	22.62
		16QAM	1	0	23.00	22.59	22.43	22.40
			1	7	23.00	22.57	22.49	22.38
			1	14	23.00	22.49	22.50	22.20
			8	0	23.00	22.69	22.64	22.36
			8	4	23.00	22.43	22.47	22.32

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5
			8	7	23.00	22.53	22.44	22.35
			15	0	22.00	21.53	21.54	21.56
LTE Band 2	5MHz	QPSK	1	0	24.00	23.37	23.47	23.61
			1	12	24.00	23.45	23.51	23.55
			1	24	24.00	23.41	23.47	23.48
			12	0	23.00	22.51	22.60	22.65
			12	6	23.00	22.49	22.60	22.67
			12	11	23.00	22.38	22.46	22.57
			25	0	23.00	22.48	22.58	22.65
		16QAM	1	0	23.00	22.31	22.64	22.50
			1	12	23.00	22.46	22.54	22.48
			1	24	23.00	22.46	22.45	22.52
			12	0	23.00	22.49	22.62	22.67
			12	6	23.00	22.51	22.65	22.67
			12	11	23.00	22.38	22.52	22.55
			25	0	22.00	21.46	21.56	21.68
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18650/1855	18900/1880	19150/1905
LTE Band 2	10MHz	QPSK	1	0	24.00	23.31	23.48	23.49
			1	24	24.00	23.36	23.50	23.37
			1	49	24.00	23.43	23.37	23.24
			25	0	23.00	22.50	22.59	22.61
			25	12	23.00	22.47	22.61	22.61
			25	24	23.00	22.42	22.55	22.54
			50	0	23.00	22.43	22.59	22.63
		16QAM	1	0	22.50	22.43	22.39	22.41
			1	24	22.50	22.48	22.41	22.12
			1	49	22.50	22.47	22.28	22.13
			25	0	23.00	22.49	22.60	22.61
			25	12	23.00	22.46	22.59	22.58
			25	24	23.00	22.44	22.56	22.55
			50	0	22.00	21.45	21.64	21.59
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band 2	15MHz	QPSK	1	0	24.00	18675/1857.5	18900/1880	19125/1902.5
			1	37	24.00	23.22	23.16	23.34
			1	74	24.00	23.23	23.26	23.29
			36	0	23.00	23.27	23.33	23.18
			36	18	23.00	22.34	22.43	22.26
			36	37	23.00	22.33	22.53	22.23
			75	0	22.50	22.40	22.59	21.99
		16QAM	1	0	22.50	22.32	22.38	22.46
			1	37	22.50	22.39	22.43	22.22
			1	74	22.50	22.38	22.39	22.20
			36	0	23.00	22.36	22.48	22.03
			36	18	23.00	22.40	22.50	22.29
			36	37	23.00	22.42	22.54	22.21
			75	0	23.00	22.41	22.52	22.04
75	0	22.00	21.24	21.43	21.52			

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE	1.4MHz	QPSK	1	0	24.00	23.40	23.43	23.26

Band 4			1	2	24.00	23.49	23.56	23.35
			1	5	24.00	23.43	23.46	23.24
			3	0	24.00	23.37	23.51	23.36
			3	1	24.00	23.40	23.57	23.33
			3	2	24.00	23.37	23.54	23.28
			6	0	23.00	22.46	22.60	22.44
		16QAM	1	0	22.50	22.21	22.47	22.31
			1	2	22.50	22.42	22.41	22.40
			1	5	22.50	22.37	22.33	22.25
			3	0	24.00	23.37	23.50	23.35
			3	1	24.00	23.35	23.52	23.32
			3	2	24.00	23.37	23.50	23.27
			6	0	22.00	21.34	21.57	21.42
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	3MHz	QPSK	1	0	24.00	23.52	23.51	23.29
			1	7	24.00	23.51	23.54	23.39
			1	14	24.00	23.50	23.56	23.28
			8	0	23.00	22.42	22.36	22.47
			8	4	23.00	22.38	22.44	22.54
			8	7	23.00	22.47	22.33	22.53
			15	0	23.00	22.56	22.56	22.48
		16QAM	1	0	23.00	22.44	22.29	22.50
			1	7	23.00	22.40	22.42	22.48
			1	14	23.00	22.34	22.37	22.45
			8	0	23.00	22.45	22.37	22.45
			8	4	23.00	22.49	22.34	22.52
			8	7	23.00	22.45	22.42	22.45
			15	0	22.00	21.49	21.60	21.50
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5
LTE Band 4	5MHz	QPSK	1	0	24.00	23.49	23.59	23.47
			1	12	24.00	23.52	23.64	23.53
			1	24	24.00	23.49	23.65	23.40
			12	0	23.00	22.57	22.60	22.50
			12	6	23.00	22.55	22.61	22.52

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
		16QAM	12	11	23.00	22.55	22.67	22.48
			25	0	23.00	22.59	22.57	22.54
			1	0	23.00	22.48	22.49	22.47
			1	12	23.00	22.58	22.59	22.47
			1	24	23.00	22.56	22.56	22.41
			12	0	23.00	22.55	22.58	22.52
			12	6	23.00	22.60	22.62	22.53
			12	11	23.00	22.57	22.69	22.45
			25	0	22.00	21.57	21.59	21.50
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
LTE Band 4	10MHz	QPSK	1	0	24.00	23.30	23.52	23.36
			1	24	24.00	23.41	23.55	23.38
			1	49	24.00	23.41	23.49	23.34
			25	0	23.00	22.52	22.59	22.48
			25	12	23.00	22.49	22.56	22.44
			25	24	23.00	22.58	22.70	22.52
			50	0	23.00	22.59	22.62	22.50
		16QAM	1	0	23.00	22.53	22.44	22.33
			1	24	23.00	22.57	22.56	22.12
			1	49	23.00	22.55	22.34	22.28
			25	0	23.00	22.50	22.58	22.49
			25	12	23.00	22.56	22.61	22.44
			25	24	23.00	22.57	22.68	22.51
			50	0	22.00	21.55	21.62	21.46
LTE Band 4	15MHz	QPSK	1	0	24.00	23.26	23.32	23.30
			1	37	24.00	23.28	23.36	23.29
			1	74	24.00	23.33	23.36	23.23
			36	0	23.00	22.41	22.52	22.26
			36	18	23.00	22.45	22.60	22.15
			36	37	23.00	22.46	22.01	22.08
			75	0	22.50	22.43	22.42	22.34
			16QAM	1	0	23.00	22.38	22.54
		1		37	23.00	22.43	22.55	22.17

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
			1	74	23.00	22.48	22.57	22.10
36	0	23.00	22.47	22.57	22.25			
36	18	23.00	22.42	22.55	22.15			
36	37	23.00	22.52	22.07	22.08			
75	0	22.00	21.43	21.51	21.40			
LTE Band 4	20MHz	QPSK	1	0	24.00	23.40	23.40	23.41
			1	49	24.00	23.41	23.38	23.39
			1	99	24.00	23.46	23.35	23.27
			50	0	23.00	22.41	22.49	22.43
			50	24	23.00	22.38	22.50	22.44
			50	49	23.00	22.53	22.56	22.43
			100	0	23.00	22.44	22.53	22.53
		16QAM	1	0	23.00	22.54	22.24	22.46
			1	49	23.00	22.57	22.31	22.37
			1	99	23.00	21.88	22.28	22.31
			50	0	23.00	22.40	22.49	22.46
			50	24	23.00	22.38	22.51	22.45
			50	49	23.00	22.47	22.55	22.42
			100	0	22.00	21.54	21.49	21.45

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20407/824.7	20525/836.5	20643/848.3
LTE Band 5	1.4MHz	QPSK	1	0	25.00	24.53	24.49	24.22
			1	2	25.00	24.57	24.56	24.02
			1	5	25.00	24.48	24.53	23.91
			3	0	25.00	24.50	24.50	23.97
			3	1	25.00	24.53	24.45	23.92
			3	2	25.00	24.57	24.54	23.82
			6	0	24.00	23.65	23.46	22.91
		16QAM	1	0	24.00	23.51	23.33	22.97
			1	2	24.00	23.73	23.51	22.86
			1	5	24.00	23.52	23.50	22.73
			3	0	25.00	24.54	24.44	23.94
			3	1	25.00	24.53	24.46	23.91

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
			3	2	25.00	24.56	24.51	23.81
			6	0	23.00	22.60	22.40	21.94
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	25.00	24.67	24.55	24.77
			1	7	25.00	24.67	24.63	24.23
			1	14	25.00	24.63	24.64	24.03
			8	0	24.00	23.85	23.54	23.39
			8	4	24.00	23.76	23.53	23.02
			8	7	24.00	23.78	23.51	22.88
			15	0	24.00	23.73	23.58	23.22
		16QAM	1	0	24.00	23.80	23.57	23.49
			1	7	24.00	23.79	23.50	23.03
			1	14	24.00	23.63	23.49	22.87
			8	0	24.00	23.81	23.46	23.40
			8	4	24.00	23.81	23.52	23.00
			8	7	24.00	23.75	23.48	22.87
			15	0	23.00	22.75	22.49	22.16
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	5MHz	QPSK	1	0	25.00	24.74	24.65	24.83
			1	12	25.00	24.63	24.68	24.97
			1	24	25.00	24.66	24.77	24.88
			12	0	24.50	23.69	23.58	24.05
			12	6	24.50	23.68	23.61	24.05
			12	11	24.50	23.69	23.64	24.06
			25	0	24.50	23.69	23.56	24.02
		16QAM	1	0	24.00	23.68	23.63	23.86
			1	12	24.00	23.76	23.74	23.93
			1	24	24.00	23.57	23.65	23.81
			12	0	24.50	23.63	23.59	24.06
			12	6	24.50	23.68	23.59	24.01
			12	11	24.50	23.69	23.68	24.08
			25	0	23.50	22.68	22.62	23.01
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		

LTE Band	Band Width	Modulation	RB	RB	Tune-up (dBm)	20450/829	20525/836.5	20600/844
			Size	Offset				
5	10MHz	QPSK	1	0	25.00	24.59	24.45	24.78
			1	24	25.00	24.61	24.51	24.78
			1	49	25.00	24.59	24.52	24.81
			25	0	24.00	23.60	23.60	23.96
			25	12	24.00	23.60	23.60	23.91
			25	24	24.00	23.65	23.67	23.98
			50	0	24.50	23.70	23.65	24.02
		16QAM	1	0	24.50	23.53	23.30	23.93
			1	24	24.50	23.45	23.34	24.03
			1	49	24.50	23.60	23.32	23.94
			25	0	24.00	23.59	23.56	23.90
			25	12	24.00	23.59	23.59	23.92
			25	24	24.00	23.70	23.69	23.94
			50	0	23.00	22.71	22.60	22.94

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20775/2502.5	21100/2535	21425/2567.5
LTE Band 7	5MHz	QPSK	1	0	23.50	22.66	22.59	22.94
			1	12	23.50	22.79	22.73	23.06
			1	24	23.50	22.80	22.65	23.13
			12	0	22.50	21.72	21.69	22.07
			12	6	22.50	21.69	21.66	22.06
			12	11	22.50	21.90	21.73	22.17
			25	0	22.50	21.77	21.81	22.18
		16QAM	1	0	22.50	21.69	21.59	21.96
			1	12	22.50	22.00	21.67	22.04
			1	24	22.50	21.84	21.68	22.06
			12	0	22.50	21.76	21.69	22.05
			12	6	22.50	21.73	21.72	22.10
			12	11	22.50	21.88	21.78	22.16
			25	0	21.50	20.74	21.11	21.13
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE	10MHz	QPSK	1	0	23.50	22.97	23.01	22.92

Band 7			1	24	23.50	23.14	23.06	23.03
			1	49	23.50	23.16	23.11	23.14
			25	0	22.50	22.14	22.19	22.18
			25	12	22.50	22.21	22.22	22.21
			25	24	22.50	22.19	22.18	22.25
			50	0	22.50	22.14	22.23	22.25
		16QAM	1	0	22.50	21.95	21.99	22.20
			1	24	22.50	22.07	21.82	22.18
			1	49	22.50	22.09	21.97	22.25
			25	0	22.50	22.14	22.23	22.19
			25	12	22.50	22.15	22.21	22.23
			25	24	22.50	22.18	22.19	22.24
			50	0	21.50	21.15	21.22	21.25
			Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)
RB Size	RB Offset	20825/2507.5				21100/2535	21375/2562.5	
LTE Band 7	15MHz	QPSK	1	0	23.50	22.59	22.76	22.79
			1	37	23.50	22.63	22.82	22.85
			1	74	23.50	22.74	22.87	22.81
			36	0	22.50	21.96	21.71	22.02
			36	18	22.50	22.02	21.73	22.11
			36	37	22.50	22.01	21.77	22.05
			75	0	22.50	21.92	22.05	22.07
		16QAM	1	0	22.50	21.86	21.65	21.96
			1	37	22.50	21.94	21.75	22.03
			1	74	22.50	21.98	21.85	22.07
			36	0	22.50	21.96	21.76	21.98
			36	18	22.50	22.03	21.77	22.10
			36	37	22.50	21.99	21.77	22.04
			75	0	21.50	20.95	21.07	21.06
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20850/2510	21100/2535	21350/2560
LTE Band 7	20MHz	QPSK	1	0	23.50	22.74	22.80	22.89
			1	49	23.50	22.80	22.84	22.96
			1	99	23.50	22.86	22.90	22.87
			50	0	22.50	21.99	21.98	22.11
			50	24	22.50	21.98	22.06	22.12

			50	49	22.50	21.94	22.06	22.04
			100	0	22.50	21.97	22.11	22.15
		16QAM	1	0	22.50	21.97	21.73	21.88
			1	49	22.50	22.05	21.74	21.86
			1	99	22.50	22.11	21.73	21.93
			50	0	22.50	21.96	22.05	22.06
			50	24	22.50	22.00	22.04	22.14
			50	49	22.50	21.98	22.05	22.03
			100	0	21.50	21.00	21.14	21.16

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	25.00	24.82	24.88	24.75
			1	2	25.00	24.79	24.93	24.74
			1	5	25.00	24.83	24.84	24.66
			3	0	25.00	24.93	24.75	24.84
			3	1	25.00	24.90	24.80	24.83
			3	2	25.00	24.78	24.81	24.78
			6	0	24.00	23.94	23.68	23.84
		16QAM	1	0	24.00	23.84	23.74	23.64
			1	2	24.00	23.81	23.81	23.63
			1	5	24.00	23.68	23.83	23.51
			3	0	25.00	24.89	24.80	24.86
			3	1	25.00	24.89	24.83	24.80
			3	2	25.00	24.85	24.76	24.80
			6	0	23.00	22.99	22.76	22.84
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE Band 12	3MHz	QPSK	1	0	25.00	24.84	24.94	24.83
			1	7	25.00	24.83	24.95	24.81
			1	14	25.00	24.75	24.86	24.79
			8	0	24.50	23.99	23.81	23.69
			8	4	24.50	23.98	23.80	23.76
			8	7	24.50	24.11	23.73	23.67
			15	0	24.50	24.02	23.92	23.84
		16QAM	1	0	24.00	23.99	23.79	23.70

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
			1	7	24.00	23.92	23.86	23.72
			1	14	24.00	23.95	23.75	23.64
			8	0	24.50	23.88	23.87	23.58
			8	4	24.50	24.06	23.92	23.74
			8	7	24.50	23.93	23.71	23.62
			15	0	23.50	23.05	22.77	22.71
LTE Band 12	5MHz	QPSK	1	0	25.00	24.88	24.91	24.79
			1	12	25.00	24.95	24.93	24.90
			1	24	25.00	24.91	24.95	24.69
			12	0	24.00	23.97	23.95	23.91
			12	6	24.00	23.94	23.95	23.85
			12	11	24.00	23.89	23.94	23.89
		16QAM	25	0	24.00	23.96	23.88	23.85
			1	0	24.50	23.78	24.07	23.88
			1	12	24.50	24.05	24.16	23.83
			1	24	24.50	23.90	23.98	23.86
			12	0	24.00	23.95	23.96	23.87
			12	6	24.00	23.99	23.93	23.86
			12	11	24.00	23.88	23.95	23.93
			25	0	23.00	22.97	22.82	22.88
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23060/704	23095/707.5	23130/711
LTE Band 12	10MHz	QPSK	1	0	25.00	24.80	24.98	24.73
			1	24	25.00	24.86	24.89	24.72
			1	49	25.00	24.82	24.80	24.64
			25	0	24.00	23.94	23.94	23.84
			25	12	24.00	23.92	23.95	23.81
			25	24	24.00	23.99	23.88	23.85
		16QAM	50	0	24.50	24.01	23.85	23.96
			1	0	24.00	23.96	23.80	23.65
			1	24	24.00	23.97	23.83	23.59
			1	49	24.00	23.92	23.71	23.56
			25	0	24.50	23.89	23.89	23.83
			25	12	24.50	23.91	23.95	23.81

			25	24	24.50	24.01	23.91	23.96
			50	0	23.50	23.01	22.88	22.99

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23205/779.5	23230/782	23255/784.5
LTE Band 13	5MHz	QPSK	1	0	25.50	25.04	25.13	25.11
			1	12	25.50	25.12	25.18	25.13
			1	24	25.50	25.09	25.05	25.02
			12	0	24.50	24.09	24.12	24.03
			12	6	24.50	24.10	24.12	24.04
			12	11	24.50	24.17	24.19	24.10
			25	0	24.50	24.14	24.12	24.05
		16QAM	1	0	24.50	24.07	24.11	24.06
			1	12	24.50	24.11	24.17	24.14
			1	24	24.50	24.20	24.00	23.95
			12	0	24.50	24.10	24.12	24.05
			12	6	24.50	24.08	24.11	24.02
			12	11	24.50	24.14	24.17	24.12
			25	0	23.50	23.12	23.16	23.10
			RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		/	23230/782	/
LTE Band 13	10MHz	QPSK	1	0	25.50	/	25.05	/
			1	24	25.50	/	25.25	/
			1	49	25.50	/	25.01	/
			25	0	24.50	/	24.23	/
			25	12	24.50	/	24.21	/
			25	24	24.50	/	24.18	/
			50	0	24.50	/	24.14	/
		16QAM	1	0	24.50	/	24.23	/
			1	24	24.50	/	24.06	/
			1	49	24.50	/	23.85	/
			25	0	24.50	/	24.21	/
			25	12	24.50	/	24.19	/
			25	24	24.50	/	24.16	/
			50	0	23.50	/	23.12	/

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23755/706.5	23790/710	23825/713.5
LTE Band 17	5MHz	QPSK	1	0	25.50	24.96	25.16	25.00
			1	12	25.50	24.90	24.96	24.77
			1	24	25.50	24.86	24.80	24.87
			12	0	24.50	24.06	24.07	24.05
			12	6	24.50	24.03	24.01	23.99
			12	11	24.50	23.98	24.00	23.83
			25	0	24.50	24.02	24.02	24.01
		16QAM	1	0	24.50	24.17	23.92	23.96
			1	12	24.50	24.16	23.86	23.71
			1	24	24.50	24.01	23.76	23.83
			12	0	24.50	24.06	24.03	24.00
			12	6	24.50	24.05	24.04	24.05
			12	11	24.50	23.98	24.01	23.83
			25	0	23.50	23.02	23.02	23.05

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23780/709	23790/710	23800/711
LTE Band 17	10MHz	QPSK	1	0	25.50	24.86	24.97	24.93
			1	24	25.50	24.90	25.00	24.90
			1	49	25.50	24.88	24.88	24.84
			25	0	24.50	24.07	24.10	24.04
			25	12	24.50	24.06	24.07	24.07
			25	24	24.50	24.00	24.02	24.05
			50	0	24.50	24.04	24.04	24.05
		16QAM	1	0	24.50	24.04	23.83	23.91
			1	24	24.50	24.08	23.85	23.75
			1	49	24.50	23.97	23.82	23.65
			25	0	24.50	24.06	24.05	24.02
			25	12	24.50	24.04	24.07	24.09
			25	24	24.50	24.01	24.05	24.11
			50	0	23.50	23.02	23.02	23.05

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB	RB		26047/1850.7	26365/1882.5	26683/1914.3

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26055/1851.5	26365/1882.5	26675/1913.5
LTE Band 25	1.4MHz	QPSK	1	0	24.00	23.42	23.40	23.45
			1	2	24.00	23.56	23.44	23.57
			1	5	24.00	23.46	23.32	23.51
			3	0	24.00	23.35	23.61	23.57
			3	1	24.00	23.36	23.55	23.57
			3	2	24.00	23.43	23.56	23.57
		16QAM	6	0	23.00	22.46	22.59	22.68
			1	0	23.00	22.34	22.31	22.51
			1	2	23.00	22.37	22.42	22.68
			1	5	23.00	22.36	22.34	22.50
			3	0	24.00	23.37	23.57	23.58
			3	1	24.00	23.37	23.56	23.60
			3	2	24.00	23.42	23.58	23.60
			6	0	22.00	21.33	21.59	21.63
LTE Band 25	3MHz	QPSK	1	0	25.00	23.61	24.90	23.59
			1	7	25.00	23.56	23.57	23.69
			1	14	25.00	23.62	23.65	23.67
			8	0	24.00	22.35	23.59	22.72
			8	4	24.00	22.39	22.36	22.73
			8	7	24.00	22.50	22.43	22.81
			15	0	23.00	22.59	22.67	22.69
		16QAM	1	0	24.00	22.46	23.95	22.73
			1	7	24.00	22.53	22.46	22.75
			1	14	24.00	22.48	22.51	22.69
			8	0	23.00	22.47	22.69	22.71
			8	4	23.00	22.47	22.52	22.85
			8	7	23.00	22.41	22.70	22.75
			15	0	22.00	21.53	21.61	21.81
LTE Band 25	5MHz	QPSK	1	0	24.00	23.52	23.73	23.72
			1	12	24.00	23.52	23.67	23.79
			1	24	24.00	23.61	23.62	23.78

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		26090/1855	26365/1882.5	26640/1910		
			12	0	23.00	22.60	22.73	22.86		
			12	6	23.00	22.62	22.73	22.84		
			12	11	23.00	22.63	22.71	22.84		
			25	0	23.00	22.63	22.74	22.91		
			16QAM	1	0	23.00	22.74	22.67	22.59	
				1	12	23.00	22.72	22.60	22.89	
				1	24	23.00	22.76	22.69	22.75	
				12	0	23.00	22.61	22.74	22.83	
		12		6	23.00	22.60	22.75	22.84		
		12		11	23.00	22.64	22.68	22.89		
		25	0	22.00	21.61	21.79	21.82			
		LTE Band 25	10MHz	QPSK	1	0	25.50	23.47	23.52	24.09
					1	24	25.50	25.18	23.62	23.61
					1	49	25.50	24.90	23.62	23.66
25	0				24.50	22.84	22.77	22.79		
25	12				24.50	24.35	22.77	22.78		
25	24				24.50	22.61	22.71	22.77		
50	0				24.00	23.72	22.80	22.81		
16QAM	1			0	25.00	22.42	22.53	23.29		
	1			24	25.00	23.47	22.69	22.66		
	1			49	25.00	24.61	22.64	22.97		
	25			0	25.00	22.81	22.77	22.80		
	25			12	25.00	24.97	22.76	22.79		
	25			24	25.00	22.62	22.70	22.79		
	50			0	23.00	22.79	21.81	21.86		
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		26115/1857.5	26365/1882.5	26615/1907.5		
LTE Band 25	15MHz	QPSK	1	0	26.00	24.95	23.37	23.48		
			1	37	26.00	23.36	23.30	23.42		
			1	74	26.00	25.59	23.38	23.48		
			36	0	25.00	24.93	22.32	22.62		
			36	18	25.00	22.63	22.20	22.70		
			36	37	25.00	24.77	22.24	22.57		
			75	0	24.00	23.95	22.55	22.65		

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26140/1860	26365/1882.5	26590/1905
16QAM			1	0	25.50	25.05	22.31	22.64
			1	37	25.50	22.55	22.23	22.69
			1	74	25.50	24.87	22.27	22.66
			36	0	25.00	24.04	22.33	22.62
			36	18	25.00	22.49	22.22	22.74
			36	37	25.00	24.70	22.24	22.65
			75	0	24.50	24.28	21.64	21.65
LTE Band 25	20MHz	QPSK	1	0	26.00	24.79	23.36	23.53
			1	49	26.00	23.41	23.41	24.06
			1	99	26.00	23.97	25.66	23.56
			50	0	23.00	22.55	22.60	22.69
			50	24	23.00	22.54	22.58	22.67
			50	49	23.00	22.48	22.59	22.74
			100	0	23.00	22.47	22.62	22.70
		16QAM	1	0	25.00	23.05	22.29	22.54
			1	49	25.00	22.58	22.30	23.76
			1	99	25.00	22.67	24.79	22.51
			50	0	23.00	22.55	22.63	22.69
			50	24	23.00	22.52	22.61	22.69
			50	49	23.00	22.52	22.60	22.74
			100	0	22.00	21.49	21.65	21.73

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26697/814.7	26740/819	26783/823.3
LTE Band 26a	1.4MHz	QPSK	1	0	25.00	24.72	24.76	24.67
			1	2	25.00	24.77	24.91	24.73
			1	5	25.00	24.66	24.81	24.68
			3	0	25.00	24.79	24.74	24.75
			3	1	25.00	24.76	24.70	24.74
			3	2	25.00	24.74	24.75	24.76
			6	0	24.00	23.87	23.80	23.78
		16QAM	1	0	24.00	23.66	23.59	23.51
			1	2	24.00	23.81	23.79	23.64
1	5		24.00	23.65	23.69	23.52		

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26705/818.5	26740/819	26775/822.5
			3	0	25.00	24.77	24.74	24.71
			3	1	25.00	24.79	24.70	24.69
			3	2	25.00	24.71	24.76	24.74
			6	0	23.00	22.80	22.75	22.79
LTE Band 26a	3MHz	QPSK	1	0	25.00	24.96	24.88	24.80
			1	7	25.00	24.88	24.82	24.87
			1	14	25.00	24.88	24.81	24.76
			8	0	24.50	23.92	23.60	23.99
			8	4	24.50	23.81	23.68	24.12
			8	7	24.50	23.73	23.68	24.03
			15	0	24.00	23.95	23.85	23.93
		16QAM	1	0	24.50	23.79	23.42	23.94
			1	7	24.50	23.88	23.74	23.99
			1	14	24.50	24.19	23.49	23.96
			8	0	24.50	23.81	23.61	23.98
			8	4	24.50	23.83	23.72	24.06
			8	7	24.50	23.69	23.61	23.89
			15	0	23.00	22.88	22.86	22.85
			RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26715/816.5	26740/819	26765/821.5
LTE Band 26a	5MHz	QPSK	1	0	25.00	24.88	24.91	24.87
			1	12	25.00	24.90	24.88	24.91
			1	24	25.00	24.91	24.82	24.87
			12	0	24.00	24.00	23.96	23.81
			12	6	24.00	23.98	23.94	23.86
			12	11	24.00	23.91	23.93	23.91
			25	0	24.00	23.96	23.94	23.91
		16QAM	1	0	24.50	24.15	23.62	23.85
			1	12	24.50	24.03	23.87	23.88
			1	24	24.50	24.02	23.86	23.84
			12	0	24.50	23.99	23.93	23.78
			12	6	24.50	24.01	23.98	23.88
			12	11	24.50	23.94	23.92	23.93
			25	0	23.00	22.97	22.97	22.90

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		/	26740/819	/
LTE Band 26a	10MHz	QPSK	1	0	25.00	/	24.89	/
			1	24	25.00	/	24.93	/
			1	49	25.00	/	24.84	/
			25	0	24.50	/	23.97	/
			25	12	24.50	/	24.03	/
			25	24	24.50	/	23.99	/
			50	0	24.00	/	23.99	/
		16QAM	1	0	24.00	/	23.95	/
			1	24	24.00	/	23.76	/
			1	49	24.00	/	23.90	/
			25	0	24.50	/	24.03	/
			25	12	24.50	/	24.00	/
			25	24	24.50	/	23.96	/
			50	0	23.50	/	23.01	/

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26797/824.7	26915/836.5	27033/848.3
LTE Band 26b	1.4MHz	QPSK	1	0	25.50	24.81	24.93	23.78
			1	2	25.50	24.84	25.01	23.63
			1	5	25.50	24.74	25.00	23.50
			3	0	25.00	24.80	24.86	23.59
			3	1	25.00	24.88	24.89	23.55
			3	2	25.00	24.85	24.93	23.44
			6	0	24.00	23.94	23.99	22.54
		16QAM	1	0	24.00	23.71	23.90	22.55
			1	2	24.00	23.90	23.92	22.46
			1	5	24.00	23.76	23.94	22.33
			3	0	25.00	24.87	24.90	23.56
			3	1	25.00	24.89	24.91	23.54
			3	2	25.00	24.83	24.93	23.43
			6	0	23.50	23.03	22.92	21.56

Band	Band Width	Modulation	RB Configuration	Tune-up (dBm)	Channel/Frequency(MHz)
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Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26815/826.5	26915/836.5	27015/846.5
LTE Band 26b	3MHz	QPSK	1	0	25.50	26805/825.5	26915/836.5	27025/847.5
			1	7	25.50	24.81	24.95	24.29
			1	14	25.50	24.92	25.12	23.83
			8	0	24.50	24.95	25.06	23.59
			8	4	24.50	24.01	23.96	22.93
			8	7	24.50	24.05	23.96	22.65
			15	0	24.50	24.13	23.69	22.46
		16QAM	1	0	24.50	23.98	24.03	22.86
			1	7	24.50	24.02	23.89	22.99
			1	14	24.50	24.03	24.00	22.65
			8	0	24.50	23.96	24.01	22.45
			8	4	24.50	24.02	23.98	22.95
			8	7	24.50	24.11	23.94	22.64
			15	0	24.50	23.95	23.79	22.44
15	0	23.50	23.08	23.03	21.78			
LTE Band 26b	5MHz	QPSK	1	0	25.50	26815/826.5	26915/836.5	27015/846.5
			1	12	25.50	24.93	24.97	24.97
			1	24	25.50	24.94	25.05	25.04
			12	0	24.50	24.93	25.01	24.88
			12	6	24.50	23.91	24.01	24.11
			12	11	24.50	23.92	23.97	24.06
			25	0	24.50	23.96	24.04	24.03
		16QAM	1	0	24.50	23.99	24.07	24.09
			1	12	24.50	23.97	24.17	23.85
			1	24	24.50	24.05	24.11	23.95
			12	0	24.50	24.01	23.97	23.95
			12	6	24.50	24.01	23.97	23.95
			12	11	24.50	23.86	23.98	24.06
			25	0	24.50	23.93	23.95	24.07
25	0	23.50	23.95	24.03	24.07			
25	0	23.50	22.99	23.06	23.08			
LTE Band	10MHz	QPSK	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		26840/829	26915/836.5	26990/844
			1	0		25.50	24.90	24.90
			1	24	25.50	24.97	24.97	25.01

26b			1	49	25.50	24.91	24.99	24.84			
			25	0	24.50	23.96	24.03	23.98			
			25	12	24.50	23.98	23.96	24.02			
			25	24	24.50	24.08	24.09	24.05			
			50	0	24.50	24.03	24.08	24.01			
		16QAM	1	0	24.50	23.99	23.75	24.04			
			1	24	24.50	23.93	23.75	24.20			
			1	49	24.50	23.80	23.74	24.13			
			25	0	24.50	24.00	24.05	24.02			
			25	12	24.50	23.95	23.97	24.00			
			25	24	24.50	24.06	24.09	24.06			
			50	0	23.50	23.09	23.10	23.02			
			Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
						RB Size	RB Offset		26865/831.5	26915/836.5	26965/841.5
LTE Band 26b	15MHz	QPSK	1	0	25.50	24.67	24.81	24.80			
			1	37	25.50	24.71	24.84	24.78			
			1	74	25.50	24.62	24.75	24.70			
			36	0	24.00	23.93	23.72	23.99			
			36	18	24.00	23.99	23.72	23.94			
			36	37	24.00	23.97	23.67	23.93			
			75	0	24.00	23.85	23.91	23.89			
		16QAM	1	0	24.00	23.96	23.73	23.87			
			1	37	24.00	23.96	23.68	23.97			
			1	74	24.00	23.97	23.69	23.94			
			36	0	24.00	23.98	23.80	24.00			
			36	18	24.00	23.99	23.82	23.96			
			36	37	24.00	23.90	23.66	23.98			
			75	0	23.00	22.85	22.95	22.86			

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39675/2498.5	40620/2593	41565/2687.5
LTE Band 41	5MHz	QPSK	1	0	23.50	22.89	23.00	22.95
			1	12	23.50	23.03	23.03	23.04
			1	24	23.50	22.90	23.02	23.00
			12	0	22.50	21.99	22.12	21.88
			12	6	22.50	22.18	22.29	21.99

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39700/2501	40620/2593	41540/2685
		16QAM	12	11	22.50	22.01	22.35	22.03
			25	0	22.50	21.90	21.98	22.09
			1	0	22.50	21.93	22.29	21.85
			1	12	22.50	22.04	22.27	21.97
			1	24	22.50	22.05	22.39	21.90
			12	0	22.50	21.96	22.16	21.93
			12	6	22.50	22.06	22.28	22.03
			12	11	22.50	22.11	22.39	21.94
			25	0	21.50	20.94	20.96	21.04
LTE Band 41	10MHz	QPSK	1	0	23.50	22.80	22.97	22.92
			1	24	23.50	22.82	22.91	22.96
			1	49	23.50	22.83	23.01	22.89
			25	0	22.50	21.91	22.00	22.06
			25	12	22.50	21.91	22.03	22.04
			25	24	22.50	21.84	22.02	22.05
		16QAM	50	0	22.50	21.83	22.00	22.02
			1	0	22.50	21.94	21.86	21.84
			1	24	22.50	21.98	21.86	21.72
			1	49	22.50	22.05	21.84	21.78
			25	0	22.50	21.91	21.99	22.05
			25	12	22.50	21.90	22.02	22.03
			25	24	22.50	21.83	22.03	21.98
			50	0	21.50	20.82	20.99	21.07
					Modulation	RB Configuration		Tune-up (dBm)
RB Size	RB Offset	39725/2503.5				40620/2593	41515/2682.5	
LTE Band 41	15MHz	QPSK	1	0	23.50	22.32	22.42	22.59
			1	37	23.50	22.35	22.40	22.51
			1	74	23.50	22.38	22.39	22.53
			36	0	22.00	21.48	21.78	21.49
			36	18	22.00	21.52	21.67	21.41
			36	37	22.00	21.54	21.73	21.42
			75	0	22.00	21.55	21.54	21.65
		16QAM	1	0	22.00	21.50	21.70	21.51
			1	37	22.00	21.56	21.77	21.44

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		39750/2506	40620/2593	41490/2680
			1	74	22.00	21.51	21.80	21.44
			36	0	22.00	21.49	21.71	21.43
			36	18	22.00	21.52	21.66	21.40
			36	37	22.00	21.56	21.78	21.40
			75	0	21.00	20.44	20.58	20.69
LTE Band 41	20MHz	QPSK	1	0	23.50	22.41	22.55	22.54
			1	49	23.50	22.46	22.57	22.45
			1	99	23.50	22.48	22.65	22.49
			50	0	22.00	21.55	21.64	21.68
			50	24	22.00	21.52	21.64	21.63
			50	49	22.00	21.49	21.63	21.54
			100	0	22.00	21.49	21.56	21.63
		16QAM	1	0	22.00	21.37	21.85	21.44
			1	49	22.00	21.42	21.82	21.40
			1	99	22.00	21.43	21.96	21.35
			50	0	21.00	20.58	20.67	20.66
			50	24	21.00	20.57	20.69	20.71
			50	49	21.00	20.48	20.66	20.56
			100	0	21.00	20.44	20.59	20.63

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131979/1710.7	132322/1745	132665/1779.3
LTE Band 66	1.4MHz	QPSK	1	0	24.00	23.61	23.47	23.70
			1	2	24.00	23.84	23.47	23.92
			1	5	24.00	23.87	23.48	23.77
			3	0	24.00	23.75	23.69	23.88
			3	1	24.00	23.65	23.62	23.95
			3	2	24.00	23.66	23.65	23.92
			6	0	23.00	22.89	22.67	22.74
		16QAM	1	0	23.00	22.41	22.36	22.65
			1	2	23.00	23.00	22.49	22.86
			1	5	23.00	22.83	22.38	22.89
			3	0	24.00	23.69	23.65	23.85
			3	1	24.00	23.71	23.59	23.83

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131987/1711.5	132322/1745	132657/1778.5
			3	2	24.00	23.63	23.63	23.92
			6	0	22.00	21.75	21.41	21.62
LTE Band 66	3MHz	QPSK	1	0	24.50	23.87	23.92	24.00
			1	7	24.50	23.95	23.80	23.93
			1	14	24.50	24.14	23.83	23.80
			8	0	24.00	22.94	23.24	22.96
			8	4	24.00	22.88	23.60	22.93
			8	7	24.00	22.91	23.45	22.78
			15	0	23.50	23.07	22.86	22.95
		16QAM	1	0	23.50	22.98	23.43	22.89
			1	7	23.50	22.74	23.17	22.56
			1	14	23.50	22.92	23.45	22.88
			8	0	24.00	22.77	23.43	22.97
			8	4	24.00	22.88	23.60	22.87
			8	7	24.00	22.79	23.50	22.86
			15	0	22.00	21.96	21.76	21.84
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		131997/1712.5	132322/1745	132647/1777.5
LTE Band 66	5MHz	QPSK	1	0	24.50	23.92	23.75	23.95
			1	12	24.50	24.03	23.92	24.05
			1	24	24.50	24.07	23.80	23.80
			12	0	23.50	23.09	22.88	22.86
			12	6	23.50	22.96	22.88	22.82
			12	11	23.50	23.09	22.80	22.83
			25	0	23.50	23.04	22.93	22.87
		16QAM	1	0	23.50	22.91	22.91	22.85
			1	12	23.50	22.90	23.14	23.09
			1	24	23.50	22.89	22.80	22.95
			12	0	23.50	22.97	22.88	22.84
			12	6	23.50	22.96	22.88	22.80
			12	11	23.50	23.08	22.80	22.84
			25	0	22.50	22.00	21.82	22.12
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		132047/1717.5	132322/1745	132597/1772.5
LTE Band 66	10MHz	QPSK	1	0	24.50	23.87	24.17	23.85
			1	24	24.50	24.34	24.15	24.39
			1	49	24.50	23.89	23.67	23.91
			25	0	23.50	23.05	22.94	22.95
			25	12	23.50	23.06	22.95	22.91
			25	24	23.50	23.06	22.92	23.06
			50	0	23.50	23.06	22.88	23.05
		16QAM	1	0	23.50	22.81	23.09	22.69
			1	24	23.50	22.98	23.15	23.12
			1	49	23.50	22.89	23.47	23.20
			25	0	23.50	23.06	22.95	22.93
			25	12	23.50	23.06	22.95	22.91
			25	24	23.50	23.05	22.92	23.06
			50	0	22.50	22.05	21.74	22.04
LTE Band 66	15MHz	QPSK	1	0	24.50	23.86	24.14	23.79
			1	37	24.50	23.91	23.91	23.77
			1	74	24.50	23.91	23.40	23.54
			36	0	24.00	22.76	23.99	22.56
			36	18	24.00	22.89	23.78	22.74
			36	37	24.00	22.37	23.31	22.18
			75	0	23.50	23.09	22.89	22.90
		16QAM	1	0	24.00	22.94	23.70	22.82
			1	37	24.00	22.90	23.56	22.88
			1	74	24.00	23.10	23.41	22.58
			36	0	24.00	22.72	23.95	22.65
			36	18	24.00	22.88	23.76	22.71
			36	37	24.00	22.35	23.29	22.20
			75	0	22.50	22.06	21.76	21.95
LTE Band	20MHz	QPSK	1	0	24.50	24.00	23.99	23.96
			1	49	24.50	24.49	24.17	24.26

66		1	99	24.50	24.06	24.09	23.92
		50	0	23.50	23.22	23.20	23.10
		50	24	23.50	23.24	23.12	23.13
		50	49	23.50	23.26	22.86	23.02
		100	0	23.50	23.19	22.97	23.04
	16QAM	1	0	24.00	23.58	23.02	23.18
		1	49	24.00	23.76	22.85	23.45
		1	99	24.00	23.24	22.94	23.44
		50	0	23.50	23.24	23.12	23.11
		50	24	23.50	23.23	23.12	23.03
		50	49	23.50	23.22	22.78	22.98
		100	0	22.50	22.27	21.96	22.00

7.3. NR Conducted Power

NR SA

Band	Band Width	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)		
					370500/1852.5	376000/1880	381500/1907.5
NR Band n2	5MHz	DFT-PI2BPSK	Edge_1RB_Left	21.50	21.20	21.07	20.13
			Edge_1RB_Right	21.50	21.27	20.86	19.81
			Outer_Full	24.00	23.70	20.94	20.00
			Inner_Full	24.50	24.14	22.55	21.45
		DFT QPSK	Edge_1RB_Left	23.50	23.22	21.17	20.52
			Edge_1RB_Right	23.50	23.04	20.97	20.28
			Outer_Full	23.50	23.13	20.97	20.00
			Inner_Full	24.50	24.19	22.56	21.47
		DFT 16QAM	Edge_1RB_Left	22.50	22.19	21.07	20.24
			Edge_1RB_Right	22.50	22.09	20.88	20.14
			Outer_Full	22.50	22.13	21.13	20.04
			Inner_Full	23.50	23.05	21.93	20.90
		DFT 64QAM	Edge_1RB_Left	21.50	21.29	20.68	19.50
			Edge_1RB_Right	21.50	21.22	20.53	19.27
			Outer_Full	22.00	21.72	20.44	19.47
			Inner_Full	22.00	21.68	20.55	19.59
		DFT 256QAM	Edge_1RB_Left	21.50	21.40	20.68	19.60
			Edge_1RB_Right	21.50	21.21	20.64	19.26
			Outer_Full	22.00	21.73	20.44	19.47
			Inner_Full	22.00	21.79	20.55	19.58

Band	Band Width	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)				
					371000/1855	376000/1880	381000/1905		
NR Band n2	10MHz	CP QPSK	Edge_1RB_Left	23.50	23.17	21.15	20.50		
			Edge_1RB_Right	23.50	23.12	21.05	20.27		
			Outer_Full	23.50	23.20	21.06	20.00		
			Inner_Full	23.50	23.19	22.58	21.58		
		CP-16QAM	Edge_1RB_Left	22.50	22.27	21.06	20.26		
			Edge_1RB_Right	22.50	22.06	20.88	20.12		
			Outer_Full	22.50	22.12	21.12	20.12		
			Inner_Full	22.50	22.13	22.02	20.98		
		CP-64QAM	Edge_1RB_Left	21.50	21.37	20.79	19.50		
			Edge_1RB_Right	21.50	21.20	20.53	19.26		
			Outer_Full	22.00	21.83	20.46	19.46		
			Inner_Full	22.00	21.72	20.36	19.46		
		CP-256QAM	Edge_1RB_Left	21.50	21.38	20.68	19.51		
			Edge_1RB_Right	21.50	21.21	20.52	19.26		
			Outer_Full	22.00	21.82	20.52	19.56		
			Inner_Full	22.00	21.71	20.37	19.47		
		NR Band n2	10MHz	DFT-PI2BPSK	Edge_1RB_Left	21.50	21.08	21.04	20.19
					Edge_1RB_Right	21.50	21.00	20.78	19.82
					Outer_Full	21.50	21.23	20.97	20.03
					Inner_Full	24.50	24.15	22.50	21.58
DFT QPSK	Edge_1RB_Left			23.50	23.18	21.19	20.24		
	Edge_1RB_Right			23.50	23.03	20.90	19.90		
	Outer_Full			23.50	23.05	21.05	20.02		
	Inner_Full			24.50	24.09	22.56	21.67		
DFT 16QAM	Edge_1RB_Left			22.50	22.09	20.93	20.32		
	Edge_1RB_Right			22.50	21.90	20.73	19.89		
	Outer_Full			22.50	22.10	20.89	19.96		
	Inner_Full			23.50	23.09	22.10	21.15		
DFT 64QAM	Edge_1RB_Left			21.50	21.25	20.72	19.88		
	Edge_1RB_Right			21.50	21.02	20.42	19.52		
	Outer_Full			22.00	21.58	20.49	19.67		
	Inner_Full			22.00	21.67	20.52	19.57		
DFT 256QAM	Edge_1RB_Left			21.50	21.15	20.64	19.88		

			Edge_1RB_Right	21.50	21.01	20.41	19.52	
				Outer_Full	22.00	21.59	20.49	19.57
				Inner_Full	22.00	21.77	20.56	19.56
			CP QPSK	Edge_1RB_Left	23.50	23.14	21.17	20.24
				Edge_1RB_Right	23.50	22.98	20.89	19.92
				Outer_Full	23.00	22.98	20.95	20.08
				Inner_Full	23.00	22.97	22.48	21.59
			CP-16QAM	Edge_1RB_Left	22.50	22.07	21.09	20.31
				Edge_1RB_Right	22.50	21.87	20.71	19.88
				Outer_Full	22.00	21.86	20.96	20.06
				Inner_Full	22.00	21.87	21.99	21.06
			CP-64QAM	Edge_1RB_Left	21.50	21.22	20.64	19.56
		Edge_1RB_Right		21.50	20.98	20.42	19.29	
		Outer_Full		21.00	20.99	20.48	19.66	
		Inner_Full		21.00	20.98	20.46	19.60	
		CP-256QAM	Edge_1RB_Left	21.50	21.23	20.63	19.86	
			Edge_1RB_Right	21.50	20.99	20.42	19.50	
			Outer_Full	21.00	20.99	20.47	19.60	
			Inner_Full	21.00	20.99	20.46	19.52	
		Band	Band Width	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)	
					371500/1857.5	376000/1880	380500/1902.5	
NR Band n2	15MHz	DFT-PI2BPSK	Edge_1RB_Left	21.50	21.02	20.95	20.20	
			Edge_1RB_Right	21.50	20.83	20.63	19.69	
			Outer_Full	21.50	21.13	20.84	20.02	
			Inner_Full	24.00	23.95	22.31	21.53	
		DFT QPSK	Edge_1RB_Left	23.00	22.93	21.14	20.26	
			Edge_1RB_Right	23.00	22.82	20.75	19.68	
			Outer_Full	23.00	22.96	20.85	20.03	
			Inner_Full	24.00	23.89	22.40	21.62	
		DFT 16QAM	Edge_1RB_Left	22.00	21.84	21.03	20.35	
			Edge_1RB_Right	22.00	21.55	20.64	19.88	
			Outer_Full	22.50	22.02	20.80	20.09	
			Inner_Full	23.00	22.99	21.79	21.04	
		DFT 64QAM	Edge_1RB_Left	21.50	21.17	20.58	19.70	
			Edge_1RB_Right	21.50	20.97	20.17	19.21	

			Outer_Full	22.00	21.54	20.41	19.67
			Inner_Full	21.50	21.42	20.40	19.68
		DFT 256QAM	Edge_1RB_Left	21.50	21.17	20.58	19.70
			Edge_1RB_Right	21.50	20.97	20.17	19.23
			Outer_Full	22.00	21.54	20.41	19.66
			Inner_Full	21.50	21.40	20.39	19.58
		CP QPSK	Edge_1RB_Left	23.00	22.88	21.04	20.24
			Edge_1RB_Right	23.00	22.78	20.84	19.77
			Outer_Full	23.00	22.78	20.84	20.06
			Inner_Full	23.00	22.83	22.28	21.48
		CP-16QAM	Edge_1RB_Left	22.00	21.91	20.84	20.33
			Edge_1RB_Right	22.00	21.61	20.63	19.94
			Outer_Full	22.00	21.61	20.94	20.06
			Inner_Full	22.00	21.61	21.81	21.01
		CP-64QAM	Edge_1RB_Left	21.50	21.11	20.48	19.69
			Edge_1RB_Right	21.50	20.95	20.17	19.22
			Outer_Full	21.00	20.94	20.36	19.50
			Inner_Full	21.00	20.95	20.38	19.54
		CP-256QAM	Edge_1RB_Left	21.50	21.11	20.48	19.71
			Edge_1RB_Right	21.50	20.94	20.17	19.22
Outer_Full	21.00		20.94	20.37	19.59		
Inner_Full	21.00		20.93	20.38	19.52		
Band	Band Width	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)		
					372000/1860	376000/1880	380000/1900
NR Band n2	20MHz	DFT-PI2BPSK	Edge_1RB_Left	21.50	20.98	21.04	20.35
			Edge_1RB_Right	21.50	21.06	20.67	19.66
			Outer_Full	23.50	23.44	20.84	20.18
			Inner_Full	24.00	23.92	22.35	21.61
		DFT QPSK	Edge_1RB_Left	24.00	23.00	23.13	23.42
			Edge_1RB_Right	24.00	23.75	23.66	23.82
			Outer_Full	23.00	22.99	22.86	22.17
			Inner_Full	24.00	23.96	23.38	23.71
		DFT 16QAM	Edge_1RB_Left	22.00	22.00	20.92	20.46
			Edge_1RB_Right	22.00	21.76	20.53	19.89
			Outer_Full	22.00	21.98	20.82	20.14

		DFT 64QAM	Inner_Full	23.00	22.95	21.77	21.09
			Edge_1RB_Left	21.50	21.07	20.60	20.05
			Edge_1RB_Right	21.50	20.94	20.13	19.29
			Outer_Full	21.50	21.47	20.41	19.78
		DFT 256QAM	Inner_Full	21.50	21.41	20.35	19.68
			Edge_1RB_Left	21.50	21.08	20.61	19.95
			Edge_1RB_Right	21.50	20.93	20.23	19.39
			Outer_Full	21.50	21.46	20.41	19.68
		CP QPSK	Inner_Full	21.50	21.41	20.35	19.70
			Edge_1RB_Left	23.00	22.96	21.01	20.41
			Edge_1RB_Right	23.00	22.82	20.66	19.72
			Outer_Full	23.00	22.81	20.89	20.14
		CP-16QAM	Inner_Full	23.00	22.81	22.32	21.59
			Edge_1RB_Left	22.50	22.06	20.91	20.45
			Edge_1RB_Right	22.50	21.84	20.54	19.78
			Outer_Full	22.00	21.83	20.80	20.12
		CP-64QAM	Inner_Full	22.00	21.84	21.91	21.09
			Edge_1RB_Left	21.50	21.17	20.61	20.06
			Edge_1RB_Right	21.50	20.93	20.14	19.37
			Outer_Full	21.00	20.92	20.35	19.65
CP-256QAM	Inner_Full	21.00	20.93	20.36	19.66		
	Edge_1RB_Left	21.50	21.07	20.62	19.95		
	Edge_1RB_Right	21.50	20.92	20.13	19.29		
	Outer_Full	21.00	20.92	20.35	19.66		
			Inner_Full	21.00	20.91	20.35	19.67

Band	Band Width	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)		
					165300/826.5	167300/836.5	169300/846.5
NR Band n5	5MHz	DFT-PI2BPSK	Edge_1RB_Left	24.00	23.00	22.90	22.83
			Edge_1RB_Right	24.00	23.90	22.92	22.77
			Outer_Full	23.50	23.02	22.70	22.72
			Inner_Full	23.50	23.05	23.20	23.19
		DFT QPSK	Edge_1RB_Left	23.50	23.11	23.10	22.91
			Edge_1RB_Right	23.50	23.01	22.87	22.76
			Outer_Full	23.50	23.03	22.82	22.75
			Inner_Full	23.50	23.04	23.19	23.23

		DFT 16QAM	Edge_1RB_Left	24.00	23.98	22.75	23.23		
			Edge_1RB_Right	24.00	23.52	23.01	22.77		
			Outer_Full	24.00	23.52	22.85	22.77		
			Inner_Full	24.00	23.53	23.61	23.58		
		DFT 64QAM	Edge_1RB_Left	22.50	21.47	22.30	22.27		
			Edge_1RB_Right	22.50	21.29	22.23	22.40		
			Outer_Full	22.50	21.48	22.28	22.28		
			Inner_Full	22.50	21.43	22.30	22.22		
		DFT 256QAM	Edge_1RB_Left	22.50	21.36	22.48	22.48		
			Edge_1RB_Right	22.50	21.30	22.39	22.13		
			Outer_Full	22.50	21.48	22.28	22.18		
			Inner_Full	22.50	21.42	22.30	22.23		
		CP QPSK	Edge_1RB_Left	24.00	23.17	23.09	23.01		
			Edge_1RB_Right	24.00	23.98	22.88	22.89		
			Outer_Full	23.00	23.00	22.70	22.73		
			Inner_Full	23.50	23.00	23.33	23.29		
		CP-16QAM	Edge_1RB_Left	24.00	23.96	23.09	22.88		
			Edge_1RB_Right	24.00	23.54	22.99	22.86		
			Outer_Full	23.50	23.43	22.83	22.75		
			Inner_Full	24.00	23.60	23.79	23.74		
		CP-64QAM	Edge_1RB_Left	22.50	21.45	22.31	22.37		
			Edge_1RB_Right	22.50	21.27	22.34	22.38		
			Outer_Full	22.50	21.48	22.18	22.23		
			Inner_Full	22.50	21.46	22.05	22.03		
		CP-256QAM	Edge_1RB_Left	23.00	21.46	22.31	22.19		
			Edge_1RB_Right	23.00	21.39	22.50	22.40		
			Outer_Full	22.50	21.46	22.19	22.27		
			Inner_Full	22.50	21.48	22.16	22.12		
		Band	Band Width	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)		
							165800/829	167300/836.5	168800/844
		NR Band n5	10MHz	DFT-PI2BPSK	Edge_1RB_Left	23.50	23.04	22.85	22.77
					Edge_1RB_Right	23.50	22.70	22.62	22.60
					Outer_Full	23.00	22.90	22.74	22.81
					Inner_Full	23.50	23.36	23.31	23.37
				DFT QPSK	Edge_1RB_Left	23.50	22.97	23.15	22.73

			Edge_1RB_Right	23.50	22.70	22.72	22.89
			Outer_Full	23.00	22.89	22.85	22.81
			Inner_Full	23.50	23.40	23.30	23.23
		DFT 16QAM	Edge_1RB_Left	23.50	22.92	22.96	23.09
			Edge_1RB_Right	23.50	22.87	23.04	22.95
			Outer_Full	23.00	22.94	22.76	22.63
			Inner_Full	24.00	23.93	23.82	23.77
		DFT 64QAM	Edge_1RB_Left	23.00	22.61	22.29	22.03
			Edge_1RB_Right	23.00	22.29	22.14	22.18
			Outer_Full	22.50	22.35	22.34	22.21
			Inner_Full	22.50	22.38	22.33	22.21
		DFT 256QAM	Edge_1RB_Left	23.00	22.63	22.28	22.13
			Edge_1RB_Right	23.00	22.39	22.13	22.18
			Outer_Full	22.50	22.35	22.32	22.31
			Inner_Full	22.50	22.38	22.33	22.30
		CP QPSK	Edge_1RB_Left	23.50	22.95	23.04	22.81
			Edge_1RB_Right	23.50	22.69	22.82	22.87
			Outer_Full	23.00	22.98	22.82	22.74
			Inner_Full	23.50	23.41	23.23	23.22
		CP-16QAM	Edge_1RB_Left	23.50	22.89	23.03	22.42
			Edge_1RB_Right	23.50	22.85	23.01	22.96
			Outer_Full	23.00	22.96	22.78	22.70
			Inner_Full	24.00	23.94	23.81	23.73
		CP-64QAM	Edge_1RB_Left	23.00	22.51	22.28	22.03
			Edge_1RB_Right	23.00	22.29	22.14	22.17
			Outer_Full	22.50	22.44	22.20	22.23
			Inner_Full	22.50	22.41	22.28	22.23
		CP-256QAM	Edge_1RB_Left	23.00	22.51	22.29	22.13
			Edge_1RB_Right	23.00	22.29	22.14	22.16
			Outer_Full	22.50	22.34	22.30	22.23
			Inner_Full	22.50	22.42	22.30	22.23
Band	Band Width	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)		
					166300/831.5	167300/836.5	168300/841.5
NR Band	15MHz	DFT-PI2BPSK	Edge_1RB_Left	23.00	22.99	22.69	22.70
			Edge_1RB_Right	23.00	22.61	22.56	22.60

n5		Outer_Full	23.00	22.77	22.68	22.76		
			Inner_Full	23.50	23.23	23.20	23.19	
		DFT QPSK	Edge_1RB_Left	23.00	22.92	22.80	22.87	
			Edge_1RB_Right	23.00	22.90	22.68	22.90	
			Outer_Full	23.00	22.89	22.69	22.84	
			Inner_Full	23.50	23.35	23.28	23.21	
		DFT 16QAM	Edge_1RB_Left	23.00	22.95	22.82	22.93	
			Edge_1RB_Right	23.00	22.63	22.60	22.95	
			Outer_Full	23.00	22.72	22.65	22.62	
			Inner_Full	24.00	23.86	23.80	23.62	
		DFT 64QAM	Edge_1RB_Left	22.50	22.47	22.48	22.08	
			Edge_1RB_Right	22.50	22.31	22.27	22.11	
			Outer_Full	22.50	22.48	22.30	22.23	
			Inner_Full	22.50	22.28	22.23	22.27	
		DFT 256QAM	Edge_1RB_Left	22.50	22.45	22.48	22.28	
			Edge_1RB_Right	22.50	22.31	22.23	22.11	
			Outer_Full	22.50	22.39	22.31	22.23	
			Inner_Full	22.50	22.28	22.23	22.17	
		CP QPSK	Edge_1RB_Left	23.00	22.90	22.79	22.77	
			Edge_1RB_Right	23.00	22.59	22.68	22.89	
			Outer_Full	23.00	22.86	22.68	22.66	
			Inner_Full	23.50	23.36	23.23	23.18	
		CP-16QAM	Edge_1RB_Left	23.50	22.97	22.81	22.91	
			Edge_1RB_Right	23.50	22.63	22.81	23.05	
			Outer_Full	23.00	22.84	22.77	22.66	
			Inner_Full	24.00	23.78	23.74	23.67	
		CP-64QAM	Edge_1RB_Left	23.00	22.78	22.47	22.17	
			Edge_1RB_Right	23.00	22.51	22.27	22.11	
			Outer_Full	22.50	22.23	22.23	22.14	
			Inner_Full	22.50	22.37	22.22	22.23	
		CP-256QAM	Edge_1RB_Left	22.50	22.46	22.37	22.07	
			Edge_1RB_Right	22.50	22.27	22.27	22.21	
			Outer_Full	22.50	22.44	22.23	22.23	
			Inner_Full	22.50	22.23	22.22	22.23	
		Band	Band	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)	

		Width			166800/834	167300/836.5	167800/839
NR Band n5	20MHz	DFT-PI2BPSK	Edge_1RB_Left	23.00	22.90	22.85	22.73
			Edge_1RB_Right	23.00	22.50	22.55	22.64
			Outer_Full	23.50	23.29	22.71	22.89
			Inner_Full	23.50	22.58	23.21	23.23
		DFT QPSK	Edge_1RB_Left	24.00	23.00	23.16	22.75
			Edge_1RB_Right	24.00	22.60	22.64	22.58
			Outer_Full	24.00	23.77	22.81	22.78
			Inner_Full	24.00	23.78	23.22	23.23
		DFT 16QAM	Edge_1RB_Left	24.00	23.00	22.83	22.80
			Edge_1RB_Right	24.00	23.75	22.79	22.64
			Outer_Full	24.00	23.81	22.65	22.64
			Inner_Full	24.00	23.79	23.67	23.72
		DFT 64QAM	Edge_1RB_Left	23.00	23.00	22.48	22.19
			Edge_1RB_Right	23.00	22.65	22.23	22.43
			Outer_Full	23.50	23.37	22.31	22.29
			Inner_Full	23.50	23.29	22.23	22.23
		DFT 256QAM	Edge_1RB_Left	23.00	22.98	22.49	22.44
			Edge_1RB_Right	23.00	22.64	22.23	22.22
			Outer_Full	23.50	23.36	22.33	22.38
			Inner_Full	23.50	23.27	22.23	22.23
		CP QPSK	Edge_1RB_Left	24.00	23.96	22.82	22.74
			Edge_1RB_Right	24.00	23.63	22.71	22.86
			Outer_Full	24.00	23.63	22.71	22.64
			Inner_Full	24.00	23.65	23.23	23.19
		CP-16QAM	Edge_1RB_Left	24.00	23.88	22.82	22.78
			Edge_1RB_Right	24.00	23.68	22.77	22.70
			Outer_Full	24.00	23.78	22.71	22.73
			Inner_Full	24.00	23.67	23.75	23.67
		CP-64QAM	Edge_1RB_Left	23.50	23.04	22.47	22.33
			Edge_1RB_Right	23.50	22.61	22.22	22.22
			Outer_Full	23.00	22.61	22.23	22.18
			Inner_Full	23.00	22.59	22.19	22.11
		CP-256QAM	Edge_1RB_Left	23.00	22.95	22.48	22.42
			Edge_1RB_Right	23.00	22.69	22.22	22.23

			Outer_Full	23.00	22.79	22.23	22.29
			Inner_Full	23.00	22.60	22.18	22.21

Band	Band Width	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)		
					140300/701.5	141500/707.5	142700/713.5
NR Band n12	5MHz	DFT-PI2BPSK	Edge_1RB_Left	23.50	23.41	23.33	23.21
			Edge_1RB_Right	23.50	23.36	23.16	23.19
			Outer_Full	24.00	23.50	23.87	23.84
			Inner_Full	24.00	23.03	23.88	23.79
		DFT QPSK	Edge_1RB_Left	24.00	23.62	23.18	23.86
			Edge_1RB_Right	24.00	23.64	23.31	23.23
			Outer_Full	24.00	23.55	23.36	23.83
			Inner_Full	24.00	23.57	23.86	23.73
		DFT 16QAM	Edge_1RB_Left	24.00	23.00	23.23	23.02
			Edge_1RB_Right	24.00	23.96	23.14	23.23
			Outer_Full	23.50	23.04	23.22	23.07
			Inner_Full	23.50	23.02	23.21	23.20
		DFT 64QAM	Edge_1RB_Left	23.50	21.74	23.43	23.19
			Edge_1RB_Right	23.50	21.72	23.37	23.17
			Outer_Full	24.00	21.88	23.93	23.85
			Inner_Full	24.00	21.79	23.77	23.85
		DFT 256QAM	Edge_1RB_Left	23.50	21.73	23.40	23.30
			Edge_1RB_Right	23.50	21.72	23.35	23.15
			Outer_Full	24.00	21.87	23.92	23.91
			Inner_Full	24.00	21.78	23.89	23.73
		CP QPSK	Edge_1RB_Left	24.00	23.68	23.42	23.22
			Edge_1RB_Right	24.00	23.59	23.23	23.21
			Outer_Full	24.00	23.50	23.41	23.35
			Inner_Full	23.50	23.40	23.31	23.23
		CP-16QAM	Edge_1RB_Left	23.50	23.06	23.21	23.21
			Edge_1RB_Right	23.50	23.02	23.09	23.19
			Outer_Full	23.50	23.00	23.29	23.18
			Inner_Full	24.00	23.99	23.30	23.19
		CP-64QAM	Edge_1RB_Left	23.50	21.80	23.39	23.23
			Edge_1RB_Right	23.50	21.68	23.35	23.23
			Outer_Full	24.00	21.92	23.90	23.78

Band	Band Width	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)		
					140800/704	141500/707.5	142200/711
NR Band n12	10MHz	CP-256QAM	Inner_Full	24.00	21.92	23.81	23.78
			Edge_1RB_Left	23.50	21.78	23.41	23.23
			Edge_1RB_Right	23.50	21.79	23.35	23.22
			Outer_Full	24.00	21.82	23.80	23.76
			Inner_Full	24.00	22.02	23.80	23.77
		DFT-PI2BPSK	Edge_1RB_Left	24.00	23.32	23.54	23.28
			Edge_1RB_Right	24.00	23.17	23.17	23.02
			Outer_Full	24.00	23.81	23.11	23.23
			Inner_Full	24.00	23.91	23.81	23.77
		DFT QPSK	Edge_1RB_Left	23.50	23.10	23.31	23.35
			Edge_1RB_Right	23.50	23.34	23.15	23.10
			Outer_Full	23.50	23.38	23.38	23.21
			Inner_Full	24.00	23.93	23.85	23.77
		DFT 16QAM	Edge_1RB_Left	24.00	23.52	23.16	23.29
			Edge_1RB_Right	24.00	23.30	23.95	23.29
			Outer_Full	24.00	23.53	23.33	23.37
			Inner_Full	23.50	23.33	23.28	23.27
		DFT 64QAM	Edge_1RB_Left	24.00	23.53	23.56	23.06
			Edge_1RB_Right	24.00	23.39	23.35	22.89
			Outer_Full	24.00	23.90	23.84	22.77
Inner_Full	24.00		23.05	23.85	22.83		
DFT 256QAM	Edge_1RB_Left	24.00	23.52	23.56	22.95		
	Edge_1RB_Right	24.00	23.40	23.23	22.80		
	Outer_Full	24.00	23.89	23.83	22.86		
	Inner_Full	24.00	23.02	23.85	22.73		
CP QPSK	Edge_1RB_Left	23.50	23.45	23.35	23.34		
	Edge_1RB_Right	23.50	23.23	23.09	23.19		
	Outer_Full	23.50	23.27	23.08	23.29		
	Inner_Full	24.00	23.23	23.10	23.79		
CP-16QAM	Edge_1RB_Left	24.00	23.58	23.12	23.50		
	Edge_1RB_Right	24.00	23.23	23.92	23.16		
	Outer_Full	24.00	23.23	23.92	23.23		
	Inner_Full	24.00	23.97	23.93	23.33		

Band	Band Width	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)		
					141300/706.5	141500/707.5	141700/708.5
		CP-64QAM	Edge_1RB_Left	24.00	23.79	23.54	23.04
			Edge_1RB_Right	24.00	23.72	23.23	22.81
			Outer_Full	24.00	23.90	23.35	22.72
			Inner_Full	23.50	23.36	23.23	22.67
		CP-256QAM	Edge_1RB_Left	24.00	23.58	23.54	23.15
			Edge_1RB_Right	24.00	23.37	23.35	22.90
			Outer_Full	23.50	23.36	23.35	22.81
			Inner_Full	23.50	23.36	23.34	22.77
NR Band n12	15MHz	DFT-PI2BPSK	Edge_1RB_Left	23.50	23.39	23.09	23.20
			Edge_1RB_Right	23.50	22.89	22.84	22.84
			Outer_Full	23.50	23.29	23.05	23.04
			Inner_Full	24.00	23.72	23.63	23.67
		DFT QPSK	Edge_1RB_Left	24.00	23.20	23.16	23.61
			Edge_1RB_Right	24.00	22.88	22.93	23.06
			Outer_Full	23.50	23.20	23.14	23.13
			Inner_Full	24.00	23.61	23.60	23.69
		DFT 16QAM	Edge_1RB_Left	24.00	23.23	23.30	23.57
			Edge_1RB_Right	24.00	23.03	22.99	23.41
			Outer_Full	23.50	23.06	23.10	23.00
			Inner_Full	23.50	23.14	23.11	23.09
		DFT 64QAM	Edge_1RB_Left	23.00	22.87	22.88	22.95
			Edge_1RB_Right	23.00	22.58	22.72	22.65
			Outer_Full	23.00	22.67	22.69	22.78
			Inner_Full	23.00	22.64	22.62	22.59
		DFT 256QAM	Edge_1RB_Left	23.00	22.78	22.97	22.86
			Edge_1RB_Right	23.00	22.58	22.61	22.64
			Outer_Full	23.00	22.68	22.61	22.67
			Inner_Full	23.00	22.48	22.70	22.59
		CP QPSK	Edge_1RB_Left	24.00	23.22	23.15	23.58
			Edge_1RB_Right	24.00	22.93	22.92	23.15
			Outer_Full	23.50	23.11	23.09	23.08
			Inner_Full	24.00	23.62	23.67	23.58
		CP-16QAM	Edge_1RB_Left	23.50	23.33	23.29	23.47

			Edge_1RB_Right	23.50	23.12	22.96	23.42
			Outer_Full	23.50	23.16	23.09	23.07
			Inner_Full	23.50	23.12	23.09	23.08
		CP-64QAM	Edge_1RB_Left	23.00	22.87	22.88	22.95
			Edge_1RB_Right	23.00	22.56	22.70	22.63
			Outer_Full	23.00	22.68	22.69	22.60
			Inner_Full	23.00	22.59	22.76	22.54
		CP-256QAM	Edge_1RB_Left	23.00	22.79	22.88	22.84
			Edge_1RB_Right	23.00	22.58	22.63	22.63
			Outer_Full	23.00	22.58	22.59	22.70
			Inner_Full	23.00	22.59	22.57	22.75

Band	Band Width	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)		
					370500/1852.5	376500/1882.5	382500/1912.5
NR Band n25	5MHz	DFT-PI2BPSK	Edge_1RB_Left	23.50	23.23	21.13	20.06
			Edge_1RB_Right	23.50	23.19	20.89	19.99
			Outer_Full	23.50	23.20	21.00	20.08
			Inner_Full	23.50	23.22	22.39	21.65
		DFT QPSK	Edge_1RB_Left	22.50	22.27	21.20	20.07
			Edge_1RB_Right	22.50	22.30	21.10	20.04
			Outer_Full	22.50	22.06	21.04	20.08
			Inner_Full	23.50	23.02	22.47	21.58
		DFT 16QAM	Edge_1RB_Left	22.00	21.94	20.90	20.34
			Edge_1RB_Right	22.00	21.76	20.89	20.12
			Outer_Full	22.00	21.71	21.16	20.20
			Inner_Full	22.00	21.82	21.87	21.03
		DFT 64QAM	Edge_1RB_Left	21.00	19.64	20.69	19.57
			Edge_1RB_Right	21.00	19.58	20.56	19.41
			Outer_Full	20.50	19.64	20.49	19.60
			Inner_Full	21.00	19.59	20.54	19.65
		DFT 256QAM	Edge_1RB_Left	21.00	19.62	20.68	19.58
			Edge_1RB_Right	21.00	19.57	20.56	19.51
			Outer_Full	20.50	19.62	20.49	19.62
			Inner_Full	21.00	19.68	20.55	19.67
		CP QPSK	Edge_1RB_Left	22.50	22.21	21.18	20.14

			Edge_1RB_Right	22.50	22.23	21.01	20.03
			Outer_Full	22.50	22.13	21.01	20.05
			Inner_Full	23.00	22.11	22.57	21.67
		CP-16QAM	Edge_1RB_Left	22.00	21.91	20.89	20.13
			Edge_1RB_Right	22.00	21.83	20.88	20.10
			Outer_Full	22.00	21.78	21.07	20.11
			Inner_Full	22.50	21.77	22.07	21.14
		CP-64QAM	Edge_1RB_Left	21.00	19.61	20.67	19.56
			Edge_1RB_Right	21.00	19.55	20.65	19.42
			Outer_Full	20.50	19.71	20.49	19.62
			Inner_Full	20.50	19.71	20.39	19.56
		CP-256QAM	Edge_1RB_Left	21.00	19.60	20.67	19.57
			Edge_1RB_Right	21.00	19.54	20.55	19.41
			Outer_Full	20.50	19.70	20.49	19.70
			Inner_Full	20.50	19.70	20.29	19.47
		Band	Band Width	Modulation	RB Configuration	Tune-up	Channel/Frequency(MHz)
					371000/1855	376500/1882.5	382000/1910
NR Band n25	10MHz	DFT-PI2BPSK	Edge_1RB_Left	21.50	21.13	21.05	20.09
			Edge_1RB_Right	21.50	21.03	20.73	19.85
			Outer_Full	21.50	21.19	21.00	20.14
			Inner_Full	23.00	22.66	22.51	21.68
		DFT QPSK	Edge_1RB_Left	21.50	21.19	21.09	20.19
			Edge_1RB_Right	21.50	21.04	20.99	20.04
			Outer_Full	21.50	21.21	21.00	20.13
			Inner_Full	23.00	22.74	22.52	21.67
		DFT 16QAM	Edge_1RB_Left	21.50	20.99	20.91	20.39
			Edge_1RB_Right	21.50	21.03	21.04	19.99
			Outer_Full	21.50	21.05	20.93	20.08
			Inner_Full	22.50	22.33	21.98	21.13
		DFT 64QAM	Edge_1RB_Left	21.00	20.73	20.59	19.78
			Edge_1RB_Right	21.00	20.60	20.41	19.58
			Outer_Full	21.00	20.66	20.54	19.69
			Inner_Full	21.00	20.75	20.54	19.64
		DFT 256QAM	Edge_1RB_Left	21.00	20.72	20.62	19.78
			Edge_1RB_Right	21.00	20.60	20.41	19.58