FCC 47 CFR § 2.1093
IEEE Std 1528-2013

SAR EVALUATION REPORT

FOR

WCDMA/LTE/5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax

MODEL NUMBER: SM-X518U

FCC ID: A3LSMX518U

REPORT NUMBER: 4790841154-S1V3

ISSUE DATE: 8/22/2023

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IAS ACCREDITED

Testing Laboratory

TL-637

Revision History

Rev.	Date	Revisions	Revised By
V1	7/19/2023	Initial Issue	--
V2	7/28/2023	Revised BLE Target in Sec 9.6 Revised n77 Repeated Measurement SAR result in Sec.11	Jeongyeon Won
V3	8/22/2023	Revised The Highest Reported SAR for LTE Band 41 & 66 in Sec.1 Revised LTE Band 41 SAR result in Sec.12.1 Revised LTE Band 66 SAR result in Sec.12.2	Jeongyeon Won

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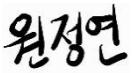
1. Attestation of Test Results

Applicant Name	SAMSUNG ELECTRONICS CO.,LTD.			
FCC ID	A3LSMX518U			
Model Number	SM-X518U			
Applicable Standards	FCC 47 CFR § 2.1093 IEEE Std 1528-2013 Published RF exposure KDB procedures			
Exposure Category	SAR Limits (W/Kg)			
	Peak spatial-average (1g of tissue)			
General population / Uncontrolled exposure	1.6			
RF Exposure Conditions	Equipment Class - The Highest Reported SAR (W/kg)			
	PCB	DTS	NII	DSS
Standalone	1.19	0.90	0.87	0.49
Simultaneous TX	1.59	1.59	1.59	1.59
Date Tested	6/2/2023 to 7/19/2023			
Test Results	Pass			

UL Korea, Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Korea, Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released By:	Prepared By:
	
Justin Park Operations Leader UL Korea, Ltd. Suwon Laboratory	Jeongyeon Won Laboratory Engineer UL Korea, Ltd. Suwon Laboratory

1.1. The Highest Reported SAR for RF exposure conditions for each bands

Equipment Class	Band	Antenna	The Highest Reported SAR (W/kg)
			1g of tissue
			Standalone
PCB	WCDMA Band II	Main.1	0.878
	WCDMA Band IV	Main.1	0.744
	WCDMA Band V	Main.1	1.035
	LTE Band 7	Main.1	0.642
	LTE Band 7	Sub.2	0.617
	LTE Band 12	Main.1	0.556
	LTE Band 13	Main.1	0.772
	LTE Band 14	Main.1	0.737
	LTE Band 25/2	Main.1	0.770
	LTE Band 25/2	Sub.2	0.781
	LTE Band 26/5	Main.1	0.758
	LTE Band 30	Main.1	0.642
	LTE Band 41	Main.1	0.607
	LTE Band 66/4	Main.1	0.794
	LTE Band 66/4	Sub.2	0.748
	LTE Band 71	Main.1	0.530
	NR Band n5	Main.1	0.741
	NR Band n12	Main.1	0.478
	NR Band n25/n2	Main.1	0.717
	NR Band n30	Main.1	0.694
	NR Band n41	Main.1	0.811
		Sub.2	1.087
		Sub.4	0.582
		Sub.1	**1.190**
	NR Band n66	Main.1	0.799
	NR Band n71	Main.1	0.523
	NR Band n77	Main.2	0.794
		Sub.2	0.891
		Sub.4	0.929
		Sub.3	0.712
DTS	2.4GHz WLAN	WiFi/BT Ant.	**0.897**
UNII	5GHZ WLAN	WiFi/BT Ant.	**0.873**
DSS	Bluetooth	WiFi/BT Ant.	**0.494**

2. Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE STD 1528-2013, ANSI C63.26-2015 the following FCC Published RF exposure KDB procedures:

- 248227 D01 802.11 Wi-Fi SAR v02r02
- 447498 D04 Interim General RF Exposure Guidance v01
- 616217 D04 SAR for laptop and tablets v01r02
- 690783 D01 SAR Listings on Grants v01r03
- 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- 865664 D02 RF Exposure Reporting v01r02
- 941225 D01 3G SAR Procedures v03r01
- 941225 D05 SAR for LTE Devices v02r05
- 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02
- 941225 D06 Hotspot Mode v02r01
- 971168 D01 Power Meas License Digital System v03r01

In addition to the above, the following information was used:

- TCB workshop October, 2014; RF Exposure Procedures Update (Overlapping LTE Bands)
- TCB workshop October, 2014; RF Exposure Procedures Update (Other LTE Considerations)
- TCB workshop October, 2016; RF Exposure Procedures (Bluetooth Duty Factor)
- TCB workshop October, 2016; RF Exposure Procedures (DUT Holder Perturbations)
- TCB workshop May, 2017; RF Exposure Procedures (LTE Test Conditions)
- TCB workshop May, 2017; RF Exposure Procedures (LTE Band 41 Power Class 2)
- TCB workshop November, 2017; RF Exposure Procedures (LTE UL/DL Carrier Aggregation SAR)
- TCB workshop April, 2018; RF Exposure Procedures (LTE DL CA SAR Test Exclusion Update)
- TCB workshop April, 2019; RF Exposure Procedures (Tissue Simulating Liquids (TSL))
- TCB workshop November, 2019 Page 5, RF Exposure Procedures (SPLSR Hotspot Combination)
- TCB workshop April, 2022; RF Exposure Procedures (5G NR FR1 Measurement)
- TCB workshop April, 2022; RF Exposure Procedures (Sum-Peak Location Separation Ratio)

3. Facilities and Accreditation

The test sites and measurement facilities used to collect data are located at

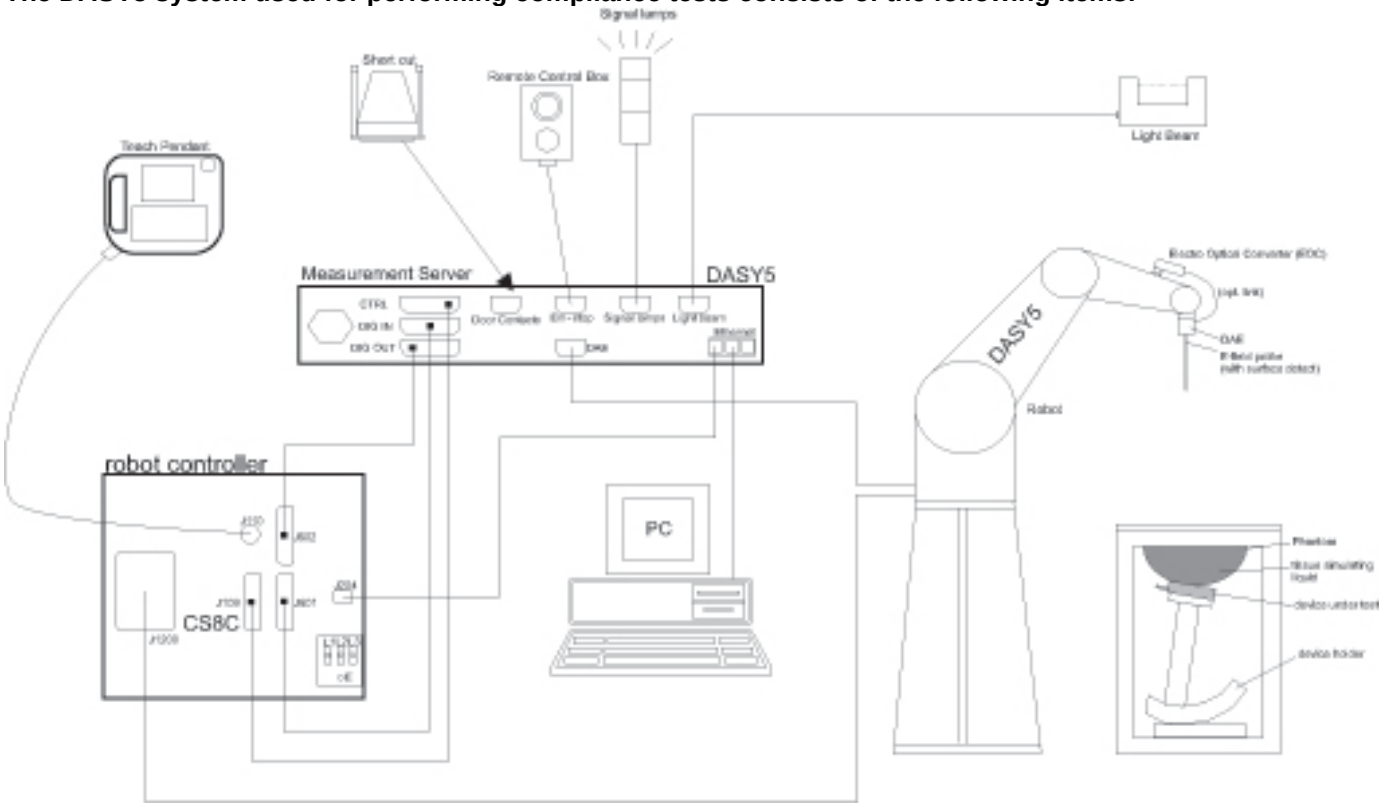
Suwon
SAR 1 Room
SAR 2 Room
SAR 3 Room
SAR 4 Room
SAR 5 Room

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637.
The full scope of accreditation can be viewed at https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf.

4. SAR Measurement System & Test Equipment

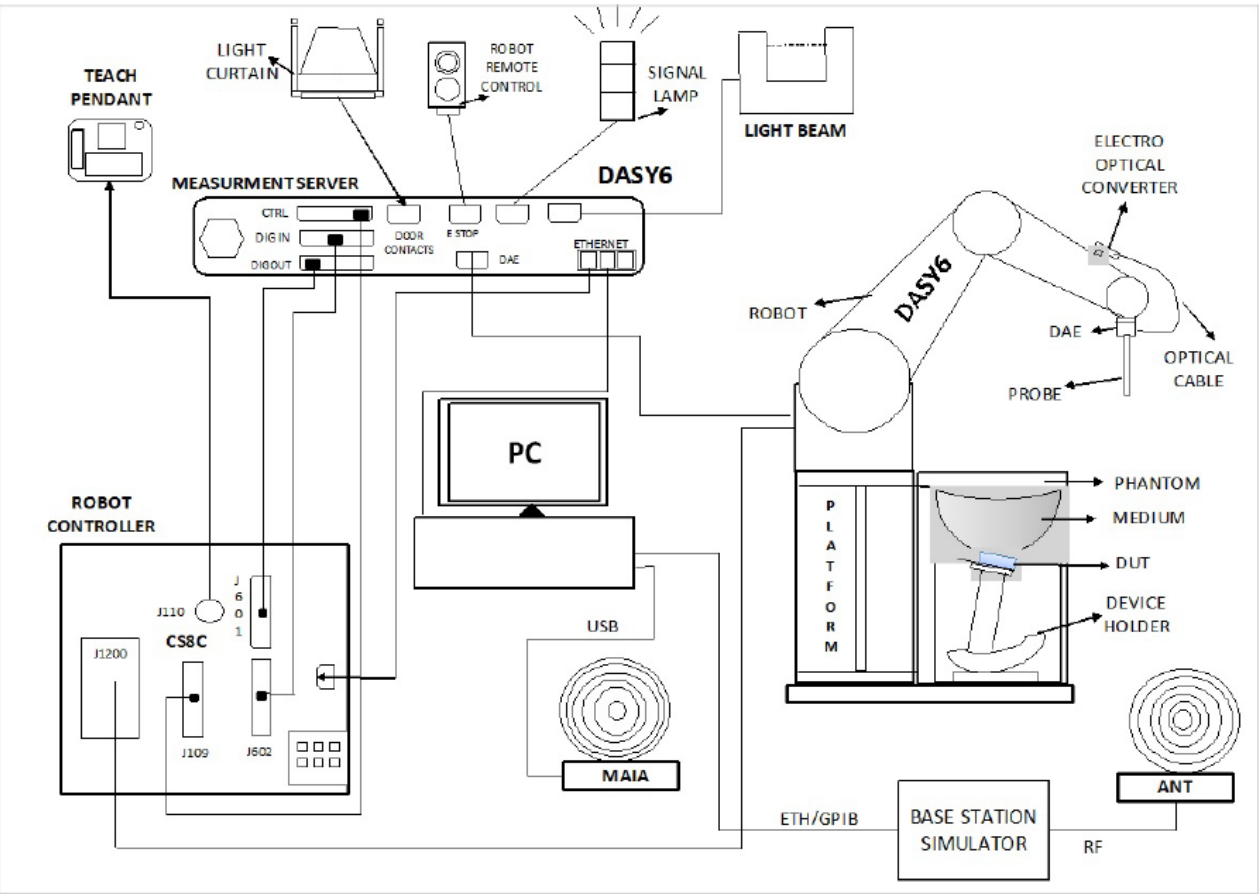
4.1. SAR Measurement System

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



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- 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 from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- 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.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

The DASY6 & 8 system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- 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 from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- 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.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win10 and the DASY6 or 8 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

4.2. SAR Scan Procedures

Step 1: Power Reference Measurement

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. The minimum distance of probe sensors to surface is 2.1 mm. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE Standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan). If only one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of Zoom Scans has to be increased accordingly.

Area Scan Parameters extracted from 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.	

Step 3: Zoom Scan

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The Zoom Scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1 g and 10 g and displays these values next to the job's label.

Zoom Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

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.

Step 4: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

4.3. Test Equipment

The measuring equipment used to perform the tests documented in this report has been calibrated in accordance with the manufacturers' recommendations, and is traceable to recognized national standards.

Dielectric Property Measurements

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Network Analyzer	Agilent	E5071C	MY46522054	8-5-2023
Network Analyzer	ROHDE & SCHWARZ	ZNB 20	102256	8-5-2023
Dielectric Assessment Kit	SPEAG	DAK-12	1158	11-17-2023
Dielectric Assessment Kit	SPEAG	DAK-3.5	1196	7-25-2023
Shorting block	SPEAG	DAK-3.5 Short	SM DAK 200 BA	N/A
Thermometer	LKM	DTM3000	3851	8-3-2023
Thermometer	LKM	DTM3000	3862	8-3-2023

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
MXG Analog Signal Generator	Aglient	N5181A	MY50145882	8-4-2023
MXG Analog Signal Generator	Keysight	N5181B	MY59100587	8-4-2023
MXG Analog Signal Generator	Keysight	N5173B	MY59101083	8-4-2023
Power Sensor	KEYSIGHT	U2000A	MY60180020	8-3-2023
Power Sensor	KEYSIGHT	U2000A	MY60490008	8-3-2023
Power Sensor	KEYSIGHT	U2000A	MY60160004	8-3-2023
Power Sensor	KEYSIGHT	U2000A	MY61010010	8-3-2023
Power Amplifier	EXODUS	AMP2027	1410025-AMP2027-10003	11-2-2023
Power Amplifier	MINI-CIRCUITS	TVA-R5-13A+	2111006	1-6-2024
Power Amplifier	EXODUS	AMP2027ADB	10002	1-6-2024
Directional Coupler	Aglient	772D	MY52180193	8-3-2023
Directional Coupler	H.P	778D	16133	8-3-2023
Directional Coupler	NARDA	4216-10	2836	8-3-2023
Directional Coupler	MINI-CIRCUITS	ZMDC-30-1+	SF569102123	8-3-2023
Low Pass Filter	FILTRON	L140012FL	1410003S	8-3-2023
Low Pass Filter	MICROLAB	LA-60N	3942	8-3-2023
Low Pass Filter	MINI-CIRCUITS	VLF-6000+	S0142	8-2-2023
Low Pass Filter	MINI-CIRCUITS	VLF-3000+	S0143	8-2-2023
Low Pass Filter	MINI-CIRCUITS	NLP-1200	VUU19301915	1-5-2024
Attenuator	KEYSIGHT	8491B/003	MY39272276	8-3-2023
Attenuator	KEYSIGHT	8491B/010	MY39271981	8-3-2023
Attenuator	KEYSIGHT	8491B/010	MY39272011	8-2-2023
Attenuator	KEYSIGHT	8491B/020	MY39272301	8-3-2023
Attenuator	KEYSIGHT	8491B/020	MY39272302	8-2-2023
Attenuator	KEYSIGHT	8491B/003	MY39272275	8-2-2023
E-Field Probe	SPEAG	EX3DV4	7313	3-24-2024
E-Field Probe	SPEAG	EX3DV4	7330	1-24-2024
E-Field Probe	SPEAG	EX3DV4	7376	7-27-2023
E-Field Probe	SPEAG	EX3DV4	7645	11-15-2023
E-Field Probe	SPEAG	EX3DV4	7651	5-30-2024
E-Field Probe	SPEAG	EX3DV4	7646	3-23-2024
E-Field Probe	SPEAG	EX3DV4	7314	5-23-2024
E-Field Probe	SPEAG	EX3DV4	3871	9-26-2023
Data Acquisition Electronics	SPEAG	DAE4	1591	3-22-2024
Data Acquisition Electronics	SPEAG	DAE4	1671	5-25-2024
Data Acquisition Electronics	SPEAG	DAE4	1667	4-24-2024
Data Acquisition Electronics	SPEAG	DAE4	1468	8-18-2023
Data Acquisition Electronics	SPEAG	DAE4	1668	4-26-2024
Data Acquisition Electronics	SPEAG	DAE4	912	11-16-2023
Data Acquisition Electronics	SPEAG	DAE4	911	3-21-2024
Data Acquisition Electronics	SPEAG	DAE3	479	10-6-2023
System Validation Dipole	SPEAG	D750V3	1122	2-24-2024
System Validation Dipole	SPEAG	D835V2	4d174	9-21-2023
System Validation Dipole	SPEAG	D1750V2	1125	11-30-2023
System Validation Dipole	SPEAG	D1900V2	5d190	11-16-2023

Test Equipment (Continued)

System Validation Dipole	SPEAG	D1900V2	5d199	3-25-2024
System Validation Dipole	SPEAG	D2450V2	960	3-24-2024
System Validation Dipole	SPEAG	D5GHzV2	1209	2-28-2024
System Validation Dipole	SPEAG	D3700V2	1036	5-19-2024
System Validation Dipole	SPEAG	D3500V2	1075	5-19-2024
System Validation Dipole	SPEAG	D3500V2	1121	4-20-2024
System Validation Dipole	SPEAG	D3900V2	1069	4-21-2024
System Validation Dipole	SPEAG	D1750V2	1180	9-21-2023
System Validation Dipole	SPEAG	D2300V2	1115	4-25-2024
System Validation Dipole	SPEAG	D2600V2	1178	4-25-2024
Thermometer	Lutron	MHB-382SD	AH.50215	1-9-2024
Thermometer	Lutron	MHB-382SD	AH.50213	1-11-2024
Thermometer	Lutron	MHB-382SD	AH.91463	1-11-2024
Thermometer	Lutron	MHB-382SD	AJ.45903	1-9-2024
Thermometer	Lutron	MHB-382SD	AJ.42446	8-9-2023
Thermometer	Lutron	MHB-382SD	AK.12102	8-9-2023
Thermometer	Lutron	MHB-382SD	AK.12103	8-9-2023
Thermometer	Lutron	MHB-382SD	AK.12121	8-9-2023
Thermometer	Lutron	MHB-382SD	AK.12123	1-9-2024
Thermometer	Lutron	MHB-382SD	AK.18789	8-9-2023

Others

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Base Station Simulator	R & S	CMW500	150313	8-2-2023
Base Station Simulator	R & S	CMW500	150314	8-2-2023
Base Station Simulator	R & S	CMW500	162790	8-2-2023
Base Station Simulator	R & S	CMW500	169803	1-5-2024
Base Station Simulator	R & S	CMW500	169801	1-5-2024
Base Station Simulator	R & S	CMW500	169799	8-2-2023
Base Station Simulator	R & S	CMW500	169800	8-2-2023
Base Station Simulator	R & S	CMW500	169798	8-2-2023
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY57510596	8-5-2023
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY59150850	1-9-2024
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY58120110	1-10-2024
Radio Communication Test Station	Anritsu	MT8000A	6272466165	9-8-2023
Radio Communication Analyzer	Anritsu	MT8821C	6161094351	11-29-2023

Note(s):

1. For System Validation Dipole, Calibration interval applied every 2 years according to referencing KDB 865664 guidance.
2. Refer to Appendix F that mentioned about justification for Extended SAR Dipole Calibrations. (for blue box items)
3. All equipments were used until Cal.Due data.

5. Measurement Uncertainty

Measurement Uncertainty of 100MHz to 6GHz

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be ≤ 30%, for a confidence interval of k = 2. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval.

5.1. DECISION RULE

Decision rule for statement(s) of conformity is based on Procedure 2, Clause 4.4.3 in IEC Guide 115:2021.

6. Device Under Test (DUT) Information

6.1. DUT Description

Device Dimension	Refer to Appendix A.					
Back Cover	☒ The Back Cover is not removable.					
Battery Options	☒ The rechargeable battery is not user accessible					
Accessory	Keyboard					
Wireless Router (Hotspot)	Wi-Fi Hotspot mode permits the device to share its cellular data connection with other Wi-Fi-enabled devices. ☒ Mobile Hotspot (Wi-Fi 2.4 GHz) ☒ Mobile Hotspot (Wi-Fi 5.8 GHz)					
Wi-Fi Direct	Wi-Fi Direct enabled devices transfer data directly between each other ☒ Wi-Fi Direct (Wi-Fi 2.4 GHz) ☒ Wi-Fi Direct (Wi-Fi 5.2 GHz_UNII-1, Wi-Fi 5.8 GHz_UNII-3)					
Test Sample Information	**No.**	**S/N**	**Notes**	**No.**	**S/N**	**Notes**
	1	R32W500QLRL	Conducted	13	R32W6007DFY	SAR
	2	R32W500QLPM	Conducted	14	R32W6007EHP	SAR
	3	R32W500QMVL	Conducted			
	4	R32W500QJWJ	Conducted			
	5	R32W5011SGE	Conducted			
	6	R32W6007EKK	Conducted			
	7	R32W6007D9W	Conducted			
	8	R32W500QT3B	SAR			
	9	R32W500QKPE	SAR			
	10	R32W500QT1V	SAR			
	11	R32W500QS8H	SAR			
	12	R32W5011TZB	SAR			

6.2. Wireless Technologies

Wireless technologies	Frequency bands	Operating mode	Duty Cycle used for SAR testing
W-CDMA (UMTS)	Band II Band IV Band V	UMTS Rel. 99 (Voice & Data) HSDPA (Category 24) HSUPA (Category 6) DC-HSDPA (Category 24) HSPA+ (DL only)	100%
LTE	FDD Band 2 FDD Band 4 FDD Band 5 FDD Band 7 FDD Band 12 FDD Band 13 FDD Band 14 FDD Band 25 FDD Band 26 FDD Band 30 TDD Band 41 – Power Class 2 TDD Band 41 – Power Class 3 FDD Band 66 FDD Band 71 **Uplink intra-band-contiguous Carrier Aggregation(2CC)** CA_5B/ 41C/ 66B/ 66C	QPSK 16QAM 64QAM 256QAM Rel. 16 Carrier Aggregation (2 Uplinks and 4 Downlinks)	100% (FDD) 63.3% (TDD) Power Class 3 43.3% (TDD) Power Class 2
	Does this device support SV-LTE (1xRTT-LTE)? ☐ Yes ☒ No		
NR (Sub 6)	FDD Band n2 FDD Band n5 FDD Band n12 FDD Band n25 FDD Band n30 FDD Band n66 FDD Band n71 TDD Band n41– Power Class 2 TDD Band n41– Power Class 3 TDD Band n77– Power Class 2 TDD Band n77– Power Class 3 TDD Band n78	DFT-s-ODFM: ■ π/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-ODFM: ■QPSK, 16QAM, 64QAM, 256QAM	100% (FDD Bands) 100% (TDD Bands)
Wi-Fi	2.4 GHz	802.11b, 802.11g 802.11n (HT20), 802.11ax	SISO : 98.7% (802.11b) MIMO : 98.9% (802.11b)
	5 GHz	802.11a 802.11n (HT20) & (HT40) 802.11ac (VHT20) & (VHT40) & (VHT80) 802.11ax (HE20) & (HE40) & (HE80)	SISO : 96.9% (802.11a), 94.9% (802.11ac (VHT80 MIMO 97.1% (802.11a) 91.1% (802.11ac (VHT80
	Does this device support bands 5.60 ~ 5.65 GHz? ☒ Yes ☐ No		
	Does this device support Band gap channel(s)? ☒ Yes ☐ No		
Bluetooth	2.4 GHz	Version 5.3 LE	76.9% (BDR DH5) 77.1% (EDR DH5)

Notes

1. The Bluetooth protocol is considered source-based averaging. Bluetooth Max power GFSK (DH5) was verified to have the highest duty cycle of 76.9% and Reduce power EDR (DH5) was verified to have the highest duty cycle of 77.1% was considered and used for SAR Testing.
2. Measured duty cycle plots are in Section.9.
3. This device supports Power Class 2(HPUE) and Power Class 3 for LTE Band 41 & NR Band n41 & NR Band n77
4. NR TDD Band n41 and n77/n78 has support SRS(0,1,2,3) modes.
5. This device supports LTE UL CA intra-band Contiguous.

6.3. Time-Averaging feature

The equipment under test (EUT) contains the Samsung S.LSI chipset supporting 4G technologies and 5G NR bands Sub.6. these chipset is enabled with TAS (Time Average SAR) algorithm to control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is in compliance with the FCC requirement.

The TAS (Time Average SAR) algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of *SAR_design_target*, below the predefined time-average power limit, for each characterized technology and band.

TAS (Time Average SAR) algorithm allows the device to transmit at higher power instantaneously as high as P_{max}, when needed, but enforces power limiting to maintain time-averaged transmit power to P_{Limit}. Below table shows P_{Limit} NV settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (RSI=Radio SAR Index).

The purpose of this SAR report is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

Exposure condition		Standalone with Sensor Off	Standalone with Sensor On	Pmax (dBm)
Spatial-average		1g	1g	
Test distance (mm)		Refer to sec.6.3 in Part.0 report.		
RSI:		0	1	
RF Air Interface	Antenna	Plimit corresponding to 1.0 W/kg		
WCDMA 2	Main.1	25.91	13.50	23.50
WCDMA 4	Main.1	26.29	12.50	24.00
WCDMA 5	Main.1	24.99	16.50	23.50
LTE B5	Main.1	26.05	14.00	24.00
LTE B7	Main.1	28.00	12.00	24.00
LTE B7	Sub.2	27.96	9.50	23.00
LTE B12	Main.1	29.29	15.50	24.00
LTE B13	Main.1	26.12	15.50	24.00
LTE B14	Main.1	26.33	15.50	24.00
LTE B25(2)	Main.1	26.48	12.50	24.00
LTE B25(2)	Sub.2	27.64	10.00	23.00
LTE B26	Main.1	26.20	14.00	24.00
LTE B30	Main.1	28.10	12.50	22.00
LTE B41(PC3)	Main.1	29.34	12.00	22.00
LTE B41(PC2)	Main.1	33.13	10.40	22.40
LTE B66(4)	Main.1	25.99	12.00	23.50
LTE B66(4)	Sub.2	27.36	10.00	23.00
LTE B71	Main.1	32.22	19.00	24.00
NR Band n5	Main.1	26.37	14.00	24.00
NR Band n12	Main.1	29.02	15.50	24.00
NR Band n25(2)	Main.1	26.57	12.50	24.00
NR Band n30	Main.1	28.55	12.50	22.50
NR Band n66	Main.1	25.97	12.00	24.00
NR Band n71	Main.1	30.48	19.00	24.00
NR Band n41-(PC2/PC3)	Main.1	20.50 / 18.00	13.00	26.50 / 24.00
NR Band n41 SRS1-(PC2/PC3)	Sub.2	19.00 / 16.50	13.00	25.00 / 22.50
NR Band n41 SRS2-(PC2/PC3)	Sub.4	19.00 / 17.00	13.00	25.00 / 23.00
NR Band n41 SRS3-(PC2/PC3)	Sub.1	16.50	13.00	21.00 / 21.00
NR Band n77-(PC2/PC3)	Main.2	21.00 / 18.00	9.00	27.00 / 24.00
NR Band n77 SRS1-(PC2/PC3)	Sub.2	21.00 / 17.50	9.00	27.00 / 23.50
NR Band n77 SRS2-(PC2/PC3)	Sub.4	18.00	9.00	24.00 / 24.00
NR Band n77 SRS3-(PC2/PC3)	Sub.3	17.00 / 16.50	7.00	21.50 / 21.00
NR Band n78	Main.2	18.00	9.00	24.00
NR Band n78 SRS1	Sub.2	17.00	9.00	23.00
NR Band n78 SRS2	Sub.4	15.50	9.00	21.50
NR Band n78 SRS3	Sub.3	13.50	7.00	19.50

Notes:

1. If Plimit is higher than Pmax for some modes/bands, The modes/bands will operate at a power level up to Pmax.
2. Pmax (Maximum tune-up power) is specified in tune-up document. The maximum allowed power is equal to maximum tune up power + 1 dB device design uncertainty.
3. All Plimit NV and maximum tune up output Pmax levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of LTE TDD modulation schemes.
4. For NR FR1 TDD Bands, Plimit listed averaged power level, and Pmax listed burst power level.
5. For PC2/PC3 of NR Band n41/n77, PC2 Plimit is higher than PC3 Plimit in RSI=0. So Plimit calculation is based on PC2's Plimit. So PC3' Plimit is always within SAR design target.
6. NR Band n78's Plimit is same or lower than NR Band n77's Plimit in All RSI's scenarios. Therefore, NR Band n77 was tested as a representative.

6.4. Maximum Allowed Output Power

Maximum allowed output power means that Pmax or PLimit + 1dB device uncertainty for each RSI.

RF Air interface	Antenna	Mode	Maximum allowed output power (dBm)		
			Pmax	RSI = 0 (Proximity sensor Off)	RSI = 1 (Proximity sensor On)
W-CDMA Band V	Main.1 Ant.	R99	24.5	24.50	17.50
		HSDPA	24.0	24.00	17.00
		HSUPA	24.0	24.00	17.00
		DC-HSDPA	24.0	24.00	17.00
W-CDMA Band IV	Main.1 Ant.	R99	25.0	25.00	13.50
		HSDPA	24.5	24.50	13.00
		HSUPA	24.0	24.00	13.00
		DC-HSDPA	24.5	24.50	13.00
W-CDMA Band II	Main.1 Ant.	R99	24.5	24.50	14.50
		HSDPA	24.0	24.00	13.50
		HSUPA	24.0	24.00	13.50
		DC-HSDPA	24.0	24.00	13.50

RF Air interface	Antenna	Mode	Maximum allowed output power (dBm)		
			Pmax	RSI = 0 (Proximity sensor Off)	RSI = 1 (Proximity sensor On)
LTE Band 2	Main.1 Ant.	QPSK	**25.00**	**25.00**	**13.50**
LTE Band 2	Sub.2 Ant.	QPSK	**24.00**	**24.00**	**11.00**
LTE Band 4	Main.1 Ant.	QPSK	**24.50**	**24.50**	**13.00**
LTE Band 4	Sub.2 Ant.	QPSK	**24.00**	**24.00**	**11.00**
LTE Band 5	Main.1 Ant.	QPSK	**25.00**	**25.00**	**15.00**
LTE Band 7	Main.1 Ant.	QPSK	**25.00**	**25.00**	**13.00**
LTE Band 7	Sub.2 Ant.	QPSK	**24.00**	**24.00**	**10.50**
LTE Band 12	Main.1 Ant.	QPSK	**25.00**	**25.00**	**16.50**
LTE Band 13	Main.1 Ant.	QPSK	**25.00**	**25.00**	**16.50**
LTE Band 14	Main.1 Ant.	QPSK	**25.00**	**25.00**	**16.50**
LTE Band 25	Main.1 Ant.	QPSK	**25.00**	**25.00**	**13.50**
LTE Band 25	Sub.2 Ant.	QPSK	**24.00**	**24.00**	**11.00**
LTE Band 26	Main.1 Ant.	QPSK	**25.00**	**25.00**	**15.00**
LTE Band 30	Main.1 Ant.	QPSK	**23.00**	**23.00**	**13.50**
LTE Band 41 (Power Class 3)	Main.1 Ant.	QPSK	**25.00**	**25.00**	**15.00**
LTE Band 41 (Power Class 2)	Main.1 Ant.	QPSK	**27.00**	**27.00**	**15.00**
LTE Band 66	Main.1 Ant.	QPSK	**24.50**	**24.50**	**13.00**
LTE Band 66	Sub.2 Ant.	QPSK	**24.00**	**24.00**	**11.00**
LTE Band 71	Main.1 Ant.	QPSK	**25.00**	**25.00**	**20.00**

Note(s):

1. Detail of RSI(Radio SAR Index) conditions, please refer to Sec.6.5.

RF Air interface	Antenna	Mode	Maximum allowed output power (dBm)		
			Pmax	RSI = 0 (Proximity sensor Off)	RSI = 1 (Proximity sensor On)
NR Band n2	Main.1 Ant.	DFT-s-OFDM_QPSK	**25.00**	**25.00**	**13.50**
NR Band n5	Main.1 Ant.	DFT-s-OFDM_QPSK	**25.00**	**25.00**	**15.00**
NR Band n12	Main.1 Ant.	DFT-s-OFDM_QPSK	**25.00**	**25.00**	**16.50**
NR Band n25	Main.1 Ant.	DFT-s-OFDM_QPSK	**25.00**	**25.00**	**13.50**
NR Band n30	Main.1 Ant.	DFT-s-OFDM_QPSK	**23.50**	**23.50**	**13.50**
NR Band n66	Main.1 Ant.	DFT-s-OFDM_QPSK	**25.00**	**25.00**	**13.00**
NR Band n71	Main.1 Ant.	DFT-s-OFDM_QPSK	**25.00**	**25.00**	**20.00**
NR Band n41	Main.1 Ant.	DFT-s-OFDM_QPSK	**25.00**	**19.00**	**14.00**
NR Band n41-SRS1	Sub.2 Ant.	SRS CW	**23.50**	**17.50**	**14.00**
NR Band n41-SRS2	Sub.4 Ant.	SRS CW	**24.00**	**18.00**	**14.00**
NR Band n41-SRS3	Sub.1 Ant.	SRS CW	**22.00**	**17.50**	**14.00**
NR Band n41(PC2)	Main.1 Ant.	DFT-s-OFDM_QPSK	**27.50**	**21.50**	**14.00**
NR Band n41(PC2)-SRS1	Sub.2 Ant.	SRS CW	**26.00**	**20.00**	**14.00**
NR Band n41(PC2)-SRS2	Sub.4 Ant.	SRS CW	**26.00**	**20.00**	**14.00**
NR Band n41(PC2)-SRS3	Sub.1 Ant.	SRS CW	**22.00**	**17.50**	**14.00**
NR Band n77	Main.2 Ant.	DFT-s-OFDM_QPSK	**25.00**	**19.00**	**10.00**
NR Band n77-SRS1	Sub.2 Ant.	SRS CW	**24.50**	**18.50**	**10.00**
NR Band n77-SRS2	Sub.4 Ant.	SRS CW	**25.00**	**19.00**	**10.00**
NR Band n77-SRS3	Sub.3 Ant.	SRS CW	**22.00**	**17.50**	**10.00**
NR Band n77(PC2)	Main.2 Ant.	DFT-s-OFDM_QPSK	**28.00**	**22.00**	**8.00**
NR Band n77(PC2)-SRS1	Sub.2 Ant.	SRS CW	**28.00**	**22.00**	**10.00**
NR Band n77(PC2)-SRS2	Sub.4 Ant.	SRS CW	**25.00**	**19.00**	**10.00**
NR Band n77(PC2)-SRS3	Sub.3 Ant.	SRS CW	**22.50**	**18.00**	**8.00**
NR Band n78	Main.2 Ant.	DFT-s-OFDM_QPSK	**25.00**	**19.00**	**10.00**
NR Band n78-SRS1	Sub.2 Ant.	SRS CW	**24.00**	**18.00**	**10.00**
NR Band n78-SRS2	Sub.4 Ant.	SRS CW	**22.50**	**16.50**	**10.00**
NR Band n78-SRS3	Sub.3 Ant.	SRS CW	**20.50**	**14.50**	**8.00**

Note(s):

1. Detail of RSI(Radio SAR Index) conditions, please refer to Sec.6.5.
2. NR Bands support SA and NSA mode as same target power.

WLAN output power

RF Air interface	Band	Sensor State	RF Output Power (dBm)											
			802.11 mode											
			SISO : Antenna 1 or Antenna 2						MIMO : Antenna 1 + Antenna 2					
			a	b	g	n	ac	ax	a	b	g	n	ac	ax
WiFi 2.4 GHz (Ant.1 only)	Ch.1	Active		12.0	12.0	12.0		12.0		15.0	15.0	15.0		15.0
		Inactive		20.0	18.0	17.0		16.0		23.0	21.0	20.0		19.0
	Ch.2-10 Except Ch.6	Active		12.0	12.0	12.0		12.0		15.0	15.0	15.0		15.0
		Inactive		20.0	18.0	17.0		16.0		23.0	21.0	20.0		19.0
	Ch.6	Active		12.0	12.0	12.0		12.0		15.0	15.0	15.0		15.0
		Inactive		20.0	18.0	17.0		15.0		23.0	21.0	20.0		18.0
	Ch.11	Active		12.0	12.0	12.0		12.0		15.0	15.0	15.0		15.0
		Inactive		20.0	18.0	17.0		16.0		23.0	21.0	20.0		19.0
WiFi 5 GHz (Ant.2 only) (BW : 20MHz)	UNII-1	Active	6.5			6.5	6.5	6.5	9.5			9.5	9.5	9.5
		Inactive	15.0			14.0	14.0	14.0	18.0			17.0	17.0	17.0
	UNII-2A	Active	6.5			6.5	6.5	6.5	9.5			9.5	9.5	9.5
		Inactive	15.0			14.0	14.0	14.0	18.0			17.0	17.0	17.0
	UNII-2C Except ch.140	Active	8.5			8.5	8.5	8.5	11.5			11.5	11.5	11.5
		Inactive	17.0			16.0	16.0	16.0	20.0			19.0	19.0	19.0
	UNII-2C ch.140	Active	10.0			10.0	10.0	10.0	13.0			13.0	13.0	13.0
		Inactive	17.0			16.0	16.0	16.0	20.0			19.0	19.0	19.0
	UNII-3 Except ch.157	Active	8.5			8.5	8.5	8.5	11.5			11.5	11.5	11.5
		Inactive	17.0			16.0	16.0	16.0	20.0			19.0	19.0	19.0
	UNII-3	Active	9.5			9.5	9.5	9.5	12.5			12.5	12.5	12.5
		Inactive	17.0			16.0	16.0	16.0	20.0			19.0	19.0	19.0
WiFi 5 GHz (Ant.2 only) (BW : 40MHz)	UNII-1	Active				6.5	6.5	6.5				9.5	9.5	9.5
		Inactive				12.0	12.0	12.0				15.0	15.0	15.0
	UNII-2A	Active				6.5	6.5	6.5				9.5	9.5	9.5
		Inactive				12.0	12.0	12.0				15.0	15.0	15.0
	UNII-2C	Active				8.5	8.5	8.5				11.5	11.5	11.5
		Inactive				14.0	14.0	14.0				17.0	17.0	17.0
	UNII-3	Active				8.5	8.5	8.5				11.5	11.5	11.5
		Inactive				14.0	14.0	14.0				17.0	17.0	17.0
WiFi 5 GHz (Ant.2 only) (BW : 80MHz)	UNII-1	Active					6.5	6.5					9.5	9.5
		Inactive					8.0	8.0					11.0	11.0
	UNII-2A	Active					6.5	6.5					9.5	9.5
		Inactive					8.0	8.0					11.0	11.0
	UNII-2C	Active					8.5	8.5					11.5	11.5
		Inactive					13.0	13.0					16.0	16.0
	UNII-3	Active					8.5	8.5					11.5	11.5
		Inactive					13.0	13.0					16.0	16.0

Bluetooth max output power

RF Air interface	Max. RF Output Power (dBm)	Reduced. RF Output Power (dBm)
Bluetooth-BR	15.0	10.0
Bluetooth-EDR	11.0	11.0
Bluetooth-LE Except ch.39	14.0	10.0
Bluetooth-LE ch.39	11.0	6.0

Notes:

1. This device uses an independent fixed level power reduction mechanism for WLAN & Bluetooth operations during Proximity sensor active.

6.5. RSI (Radio SAR Index) Scenarios

This device supports multiple RSI Scenarios and Each RSIs operate to each RF exposure Conditions.

Please below table;

RF exposure Conditions	Technologuies Supported	RSI conditions	Description
Standalone	All WWAN bands	RSI = 0	1. free 2. Hand use conditions for Handset and proximity sensor is not active.
Standalone	All WWAN bands	RSI = 1	1. Hand use conditions for Handset and proximity sensor is active.

Note(s):

RSI Scenarios priority: RSI=1 → RSI=0

6.6. General LTE SAR Test and Reporting Considerations

Item	Description						
Frequency range, Channel Bandwidth, Numbers and Frequencies	Band 2	Frequency range: 1850 - 1910 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	18700/ 1860	18675/ 1857.5	18650/ 1855	18625/ 1852.5	18615/ 1851.5	18607/ 1850.7
	Mid	18900/ 1880	18900/ 1880	18900/ 1880	18900/ 1880	18900/ 1880	18900/ 1880
	High	19100/ 1900	19125/ 1902.5	19150/ 1905	19175/ 1907.5	19185/ 1908.5	19193/ 1909.3
	Band 4	Frequency range: 1710 - 1755 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	20050/ 1720	20025/ 1717.5	20000/ 1715	19975/ 1712.5	19965/ 1711.5	19957/ 1710.7
	Mid	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5
	High	20300/ 1745	20325/ 1747.5	20350/ 1750	20375/ 1752.5	20385/ 1753.5	20393/ 1754.3
	Band 5	Frequency range: 824 - 849 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low			20450/ 829	20425/ 826.5	20415/ 825.5	20407/ 824.7
	Mid			20525/ 836.5	20525/ 836.5	20525/ 836.5	20525/ 836.5
	High			20600/ 844	20625/ 846.5	20635/ 847.5	20643/ 848.3
	Band 7	Frequency range: 2500 - 2570 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	20850/ 2510	20825/ 2507.5	20800/ 2505	20775/ 2502.5		
	Mid	21100/ 2535	21100/ 2535	21100/ 2535	21100/ 2535		
	High	21350/ 2560	21375/ 2562.5	21400/ 2565	21425/ 2567.5		
	Band 12	Frequency range: 699 - 716 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low			23060/ 704	23035/ 701.5	23025/ 700.5	23017/ 699.7
	Mid			23095/ 707.5	23095/ 707.5	23095/ 707.5	23095/ 707.5
	High			23130/ 711	23155/ 713.5	23165/ 714.5	23173/ 715.3
	Band 13	Frequency range: 777 - 787 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low				23205/ 779.5		
	Mid			23230/ 782	23230/ 782		
	High				23255/ 784.5		
	Band 14	Frequency range: 788 - 798 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low				23305/ 790.5		
	Mid			23330/ 793	23330/ 793		
	High				23355/ 795.5		
	Band 25	Frequency range: 1850 - 1915 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	26140/ 1860	26115/ 1857.5	26090/ 1855	26065/ 1852.5	26055/ 1851.5	26047/ 1850.7
	Mid	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5
	High	26590/ 1905	26615/ 1907.5	26640/ 1910	26665/ 1912.5	26675/ 1913.5	26683/ 1914.3
	Band 26	Frequency range: 814 - 849 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low		26765/ 821.5	26740/ 819	26715/ 816.5	26705/ 815.5	26697/ 814.7
	Mid		26865/ 831.5	26865/ 831.5	26865/ 831.5	26865/ 831.5	26865/ 831.5
	High		26965/ 841.5	26990/ 844	27015/ 846.5	27025/ 847.5	27033/ 848.3

General LTE SAR Test and Reporting Considerations (Continued)

<table>
<tr><th>Item</th><th>Description</th></tr>
<tr><td>Frequency range, Channel Bandwidth, Numbers and Frequencies</td><td>
<table>
<tr><td rowspan="3">Band 30</td><td colspan="6">Frequency range: 2305 - 2315 MHz</td></tr>
<tr><td colspan="6">Channel Bandwidth</td></tr>
<tr><td>20 MHz</td><td>15 MHz</td><td>10 MHz</td><td>5 MHz</td><td>3 MHz</td><td>1.4 MHz</td></tr>
<tr><td>Low</td><td></td><td></td><td></td><td>27685/ 2307.5</td><td></td><td></td></tr>
<tr><td>Mid</td><td></td><td></td><td>27710/ 2310</td><td>27710/ 2310</td><td></td><td></td></tr>
<tr><td>High</td><td></td><td></td><td></td><td>27735/ 2312.5</td><td></td><td></td></tr>
<tr><td rowspan="3">Band 41</td><td colspan="6">Frequency range: 2496 - 2690 MHz</td></tr>
<tr><td colspan="6">Channel Bandwidth</td></tr>
<tr><td>20 MHz</td><td>15 MHz</td><td>10 MHz</td><td>5 MHz</td><td>3 MHz</td><td>1.4 MHz</td></tr>
<tr><td>Low</td><td colspan="4">39750 / 2506.0</td><td></td><td></td></tr>
<tr><td>Low-Mid</td><td colspan="4">40185 / 2549.5</td><td></td><td></td></tr>
<tr><td>Mid</td><td colspan="4">40620 / 2593.0</td><td></td><td></td></tr>
<tr><td>Mid-High</td><td colspan="4">41055 / 2636.5</td><td></td><td></td></tr>
<tr><td>High</td><td colspan="4">41490 / 2680.0</td><td></td><td></td></tr>
<tr><td rowspan="3">Band 66</td><td colspan="6">Frequency range: 1710 - 1780 MHz</td></tr>
<tr><td colspan="6">Channel Bandwidth</td></tr>
<tr><td>20 MHz</td><td>15 MHz</td><td>10 MHz</td><td>5 MHz</td><td>3 MHz</td><td>1.4 MHz</td></tr>
<tr><td>Low</td><td>132072/ 1720</td><td>132047/ 1717.5</td><td>132022/ 1715</td><td>131997/ 1712.5</td><td>131987/ 1711.5</td><td>131979/ 1710.7</td></tr>
<tr><td>Mid</td><td>132322/ 1745</td><td>132322/ 1745</td><td>132322/ 1745</td><td>132322/ 1745</td><td>132322/ 1745</td><td>132322/ 1745</td></tr>
<tr><td>High</td><td>132572/ 1770</td><td>132597/ 1772.5</td><td>132622/ 1775</td><td>132647/ 1777.5</td><td>132657/ 1778.5</td><td>132665/ 1779.3</td></tr>
<tr><td rowspan="3">Band 71</td><td colspan="6">Frequency range: 663 - 698 MHz</td></tr>
<tr><td colspan="6">Channel Bandwidth</td></tr>
<tr><td>20 MHz</td><td>15 MHz</td><td>10 MHz</td><td>5 MHz</td><td>3 MHz</td><td>1.4 MHz</td></tr>
<tr><td>Low</td><td>133222/ 673</td><td>133197/ 670.5</td><td>133172/ 668</td><td>133147/ 665.5</td><td></td><td></td></tr>
<tr><td>Mid</td><td>133297/ 680.5</td><td>133297/ 680.5</td><td>133297/ 680.5</td><td>133297/ 680.5</td><td></td><td></td></tr>
<tr><td>High</td><td>133372/ 688</td><td>133397/ 690.5</td><td>133422/ 693</td><td>133447/ 695.5</td><td></td><td></td></tr>
</table>
</td></tr>
<tr><td>LTE transmitter and antenna implementation</td><td>Refer to Appendix A.</td></tr>
<tr><td>Maximum power reduction (MPR)</td><td>
Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3
<table>
<tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr>
<tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr>
<tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr>
<tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr>
<tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr>
<tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr>
<tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr>
<tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr>
</table>
MPR Built-in by design
The manufacturer MPR values are always within the 3GPP maximum MPR allowance but may not follow the default MPR values.
A-MPR (additional MPR) was disabled during SAR testing
</td></tr>
<tr><td>Power reduction</td><td>Yes.</td></tr>
<tr><td>Spectrum plots for RB configurations</td><td>A properly configured base station simulator was used for the SAR and power measurements; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.</td></tr>
</table>

Notes:

1. 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 per KDB 941225 D05 SAR for LTE devices.
2. LTE Band 41 test channels in accordance with October 2014 TCB workshop for all channels bandwidths.
3. SAR Testing for LTE was performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

6.7. LTE (TDD) Considerations

According to KDB 941225 D05 SAR for LTE Devices, 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.

LTE TDD Bands 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.

Table 4.2-1: 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	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Calculated Duty Cycle

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

Calculated Duty Cycle = Extended cyclic prefix in uplink x (T_s) x # of S + # of U

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:
Calculated Duty Cycle = 5120 x [1/(15000 x 2048)] x 2 + 6 ms = 63.33%
where
T_s = 1/(15000 x 2048) seconds

Note(s):
This device supports uplink-downlink configurations 0-6. The configuration with highest duty cycle was used for SAR Testing: configuration 0 at 63.3% duty cycle.

6.8. NR (Sub 6GHz) SAR Test and Reporting Considerations

Item	Description												
Frequency range, Channel Bandwidth, Numbers and Frequencues	Band n2	Frequency range: 1850 - 1910 MHz											
		Channel Bandwidth											
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
	Low										372000/ 1860	371500/ 1857.5	371000/ 1855	370500/ 1852.5
	Mid										376000/ 1880	376000/ 1880	376000/ 1880	376000/ 1880
	High										380000/ 1900	380500/ 1902.5	381000/ 1905	381500/ 1907.5
	Band n5	Frequency range: 824 - 849 MHz											
		Channel Bandwidth											
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
	Low										166800/ 834	166300/ 831.5	165800/ 829	165300/ 826.5
	Mid										167300/ 836.5	167300/ 836.5	167300/ 836.5	167300/ 836.5
	High										167800/ 839	168300/ 841.5	168800/ 844	169300/ 846.5
	Band n12	Frequency range: 699 - 716 MHz											
		Channel Bandwidth											
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
	Low											141300/ 706.5	140800/ 704	140300/ 701.5
	Mid											141500/ 707.5	141500/ 707.5	141500/ 707.5
	High											141700/ 708.5	142200/ 711	142700/ 713.5
	Band n25	Frequency range: 1850 - 1915 MHz											
		Channel Bandwidth											
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
	Low										372000/ 1860	371500/ 1857.5	371000/ 1855	370500/ 1852.5
	Mid										376500/ 1882.5	376500/ 1882.5	376500/ 1882.5	376500/ 1882.5
	High										381000/ 1905	381500/ 1907.5	382000/ 1910	382500/ 1912.5
	Band n30	Frequency range: 2305 - 2315 MHz											
		Channel Bandwidth											
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
	Low													461500/ 2307.5
	Mid												462000/ 2310	462000/ 2310
	High													462500/ 2312.5
	Band n41	Frequency range: 2496 - 2690 MHz											
		Channel Bandwidth											
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
	Low	509202/ 2546.01	508200/ 2541	507204/ 2536.02	506202/ 2531.01	505200/ 2526	504204/ 2512.02	503202/ 2516.01	552200/ 2511		501204/ 2506.02	500700/ 2503.5	500202/ 2501.01	
	Low-Mid							516468/ 2567.34	510402/ 2552.01		509898/ 2549.49	509652/ 2548.26	509400/ 2547	
	Mid	518598/ 2592.99				518598/ 2592.99	518598/ 2592.99		518598/ 2592.99		518598/ 2592.99	518598/ 2592.99	518598/ 2592.99	
	Mid-High	528000/ 2640	528996/ 2644.98	529998/ 2649.99	531000/ 2655	529998/ 2649.99	523734/ 2618.67	523734/ 2618.67	526800/ 2634		527298/ 2636.49	527550/ 2637.75	527802/ 2639.01	
	High							534000/ 2670	534996/ 2674.98		535998/ 2679.99	536496/ 2682.48	537000/ 2685	
	Band n66	Frequency range: 1710 - 1780 MHz											
		Channel Bandwidth											
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
	Low							346000/ 1730	345000/ 1725	344500/ 1722.5	344000 /1720	343500 /1717.5	343000 /1715	342500 /1712.5
	Mid							349000/ 1745	349000/ 1745	349000/ 1745	349000/ 1745	349000/ 1745	349000/ 1745	349000/ 1745
	High							352000/ 1760	353000/ 1765	353500/ 1767.5	354000 /1770	354500 /1772.5	355000 /1775	355500 /1777.5

NR (Sub 6GHz) SAR Test and Reporting Considerations

Item	Description												
Frequency range, Channel Bandwidth, Numbers and Frequencues	Band n71	Frequency range: 663 - 698 MHz											
		Channel Bandwidth											
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
	Low										134600/ 673	134100/ 670.5	133600/ 668	133147/ 665.5
	Mid										136100/ 680.5	136100/ 680.5	136100/ 680.5	136100/ 680.5
	High										137600/ 688	138100/ 690.5	138600/ 693	133447/ 695.5
	Band n77(n78) -DoD-	Frequency range: 3450 - 3550 MHz											
		Channel Bandwidth											
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
	Low						631668/ 3475.02	631334/ 3470.01	631000/ 3465	630866/ 3462.99	630668/ 3460.02	630500/ 3457.5	630334/ 3455.01	
	Mid	633334 /3500.01	633334 /3500.01	633334 /3500.01	633334 /3500.01	633334 /3500.01			633334 /3500.01	633334 /3500.01	633334 /3500.01	633334 /3500.01	633334 /3500.01	
	High						635000/ 3525	635332/ 3529.98	635666/ 3534.99	635800 3537	636000/ 3540	636166/ 3542.49	636332/ 3544.98	
	Band n77(n78) -DoD-	Frequency range: 3700 - 3980 MHz											
		Channel Bandwidth											
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
	Low	650000 /3750	649668 /3745.02	649334 /3740.01	649000/ 3735	648668 /3730.02	648334 /3725.01	648000 /3720	647668/ 3715.02	647500/ 3712.5	647334 /3710.01	647168/ 3707.52	647000/ 3705	
	Low-Mid				653666/ 3804.99	653556 /3803.34	652166 /3782.49	651200 /3768	651000/ 3765	650900/ 3763.5	650800 /3762	650700/ 3760.5	650600/ 3759	
	Mid-A		656000 /3840	656000 /3840			656000 /3840	654400 /3816	654334/ 3815.01	654300/ 3814.5	654266 /3813.99	654234/ 3813.51	654200/ 3813	
	Mid-B							657600 /3864	657666/ 3864.99	657700/ 3814.5	657734 /3866.01	657766/ 3866.49	657800/ 3867	
	Mid-High	662000 /3930	662332 /3934.98	662666 /3939.99	658334/ 3875.01	658444 /3876.66	659834 /3897.51	660800 /3912	661000/ 3915	661100/ 3916.5	661200 /3918	661300/ 3919.5	661400/ 3921	
	High				663000/ 3945	663332 /3949.98	663666 /3954.99	664000 /3960	664332/ 3964.98	664500/ 3967.5	664666 /3969.99	664832/ 3972.48	665000/ 3975	
SCS	NR FDD Bands : 15 kHz, NR TDD Bands : 30kHz													
Modulations Supported in UL	DFT-s-OFDM: π/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM & CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM													
A-MPR (Additional MPR) disabled for SAR Testing?	Yes													
EN-DC Carrier Aggregation Possible Combinations														
LTE Anchor Bands for NR Band n2	LTE Band 5/12/13/14/71													
LTE Anchor Bands for NR Band n5	LTE Band 2/7/30/66													
LTE Anchor Bands for NR Band n12	LTE Band 2/66													
LTE Anchor Bands for NR Band n25	LTE Band 12													
LTE Anchor Bands for NR Band n30	LTE Band 5/12/14													
LTE Anchor Bands for NR Band n41	LTE Band 2/4/12/25/66/71													
LTE Anchor Bands for NR Band n66	LTE Band 5/7/12/13/14/71													
LTE Anchor Bands for NR Band n71	LTE Band 2/7/66													
LTE Anchor Bands for NR Band n77	LTE Band 2/5/7/12/13/14/30/66													
LTE Anchor Bands for NR Band n78	LTE Band 2/4/5/7/12/13/66/71													

Notes:

1. SAR test for NR bands and LTE anchor Bands were performed separately due to limitations in SAR probe calibration factors. And, Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
2. NR configurations of SAR test were determined according to Section 5.2 of KDB 941225 D05.

7. RF Exposure Conditions (Test Configurations)

Refer to Appendix A for the specific details of the antenna-to-antenna and antenna-to-edge(s) distances.

7.1. Standalone SAR Test Exclusion Considerations

Tablet device's each positions (Rear/Edge1/Edge2/Edge3/Edge4) consider SAR test exclusion according to Appendix B.4 of KDB 447498 D04 Interim General RF exposure guide.
If Each antenna operate to between 0.3GHz to 6GHz, and Antenna to DUT surface's distance are within 0.5 cm to 40cm, then below Formula can use for SAR test exclusion;

$$P_{\text{th}}\,(\text{mW}) = ERP_{20\,\text{cm}}\,(\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases} \quad \text{(B.1)}$$

$$P_{\text{th}}\,(\text{mW}) = \begin{cases} ERP_{20\,\text{cm}}(d/20\ \text{cm})^{x} & d \le 20\ \text{cm} \\ ERP_{20\,\text{cm}} & 20\ \text{cm} < d \le 40\ \text{cm} \end{cases} \quad \text{(B.2)}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\text{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20\text{cm}}$ is per Formula (B.1).
The example values shown in Table B.2 are for illustration only.

7.2. Estimated SAR

When an antenna qualifies for test exemption in single transmitter/antenna mode of each test positions, its actual SAR value may not be available, because it was not required to be measured. In this case, the SAR contribution of that antenna to simultaneous transmission must be estimated relative to the SAR based exemption criteria, by multiplying the corresponding ratio by the SAR limit of 1.6 W/kg for 1-g SAR. This is referred to as estimated SAR.
For instance, a given antenna may qualify for a SAR-based exemption according to Appendix B.4 of KDB 447498 D04, with $P_{ant} < P_{th}$, where P_{ant} is maximum time-averaged power, and P_{th} is defined in Section 7.1. Then, per the preceding paragraph, the estimated SAR is computed as $SAR_{est} = 1.6 * P_{ant} / P_{th}$ [W/kg].

SAR Test Exclusion Calculation for WWAN (Proximity Sensor Off)

Antenna	Tx Interface	Frequency (MHz)	Output Power		Separation Distances (mm)					Estimated 1-g SAR Value (W/kg)				
			dBm	mW	Rear	Top	R_Left	Bottom	R_Right	Rear	Top	R_Left	Bottom	R_Right
Full Power, Proximity Sensor Off. A sensor triggering of 20 mm is included for Rear, Left, Right and Bottom. 23mm is included for Top.														
Main 1	W-CDMA 2	1910	24.50	282	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.097	-Measure-
Main 1	W-CDMA 4	1755	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.110	-Measure-
Main 1	W-CDMA 5	849	24.50	282	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.189	-Measure-
Main 1	LTE Band 2	1910	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.109	-Measure-
Sub 2	LTE Band 2	1910	24.00	251	19	250.33	0	19	0	-Measure-	0.087	-Measure-	-Measure-	-Measure-
Main 1	LTE Band 4	1755	24.50	282	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.098	-Measure-
Sub 2	LTE Band 4	1755	24.00	251	19	250.33	0	19	0	-Measure-	0.087	-Measure-	-Measure-	-Measure-
Main 1	LTE Band 5	849	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.212	-Measure-
Main 1	LTE Band 7	2570	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.108	-Measure-
Sub 2	LTE Band 7	2570	24.00	251	19	250.33	0	19	0	-Measure-	0.085	-Measure-	-Measure-	-Measure-
Main 1	LTE Band 12	716	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.258	-Measure-
Main 1	LTE Band 13	787	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.231	-Measure-
Main 1	LTE Band 14	798	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.228	-Measure-
Main 1	LTE Band 25	1915	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.109	-Measure-
Sub 2	LTE Band 25	1915	24.00	251	19	250.33	0	19	0	-Measure-	0.087	-Measure-	-Measure-	-Measure-
Main 1	LTE Band 26	849	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.212	-Measure-
Main 1	LTE Band 30	2315	23.00	200	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.068	-Measure-
Main 1	LTE Band 66	1780	24.50	282	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.098	-Measure-
Sub 2	LTE Band 66	1780	24.00	251	19	250.33	0	19	0	-Measure-	0.087	-Measure-	-Measure-	-Measure-
Main 1	LTE Band 71	698	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.265	-Measure-
Main 1	LTE Band 41	2690	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.107	-Measure-
Main 1	LTE Band 41 PC2	2690	27.00	501	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.170	-Measure-
Main 1	NR Band n2	1910	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.109	-Measure-
Main 1	NR Band n5	849	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.212	-Measure-
Main 1	NR Band n12	716	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.258	-Measure-
Main 1	NR Band n25	1915	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.109	-Measure-
Main 1	NR Band n30	2315	23.50	224	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.077	-Measure-
Main 1	NR Band n66	1780	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.110	-Measure-
Main 1	NR Band n71	698	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.265	-Measure-
Main 1	NR Band n41	2690	25.00	316	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.107	-Measure-
Sub 2	NR Band n41 SRS1	2690	23.50	224	19	250.33	0	19	0	-Measure-	0.076	-Measure-	-Measure-	-Measure-
Sub 4	NR Band n41 SRS2	2690	24.00	251	19	250.33	0	19	0	-Measure-	0.085	-Measure-	-Measure-	-Measure-
Sub 1	NR Band n41 SRS3	2690	22.00	158	19	241.63	117.86	19	19	-Measure-	0.057	0.228	-Measure-	-Measure-
Main 1	NR Band n41 (PC2)	2690	27.50	562	19	22	19	250.33	19	-Measure-	-Measure-	-Measure-	0.191	-Measure-
Sub 2	NR Band n41 (PC2) SRS1	2690	26.00	398	19	250.33	0	19	0	-Measure-	0.135	-Measure-	-Measure-	-Measure-
Sub 4	NR Band n41 (PC2) SRS2	2690	26.00	398	19	250.33	0	19	0	-Measure-	0.135	-Measure-	-Measure-	-Measure-
Sub 1	NR Band n41 (PC2) SRS3	2690	22.00	158	19	241.63	117.86	19	19	-Measure-	0.057	0.228	-Measure-	-Measure-
Main 2	NR Band n77	3980	25.00	316	19	241.63	19	19	117.86	-Measure-	0.113	-Measure-	-Measure-	0.478
Sub 2	NR Band n77 SRS1	3980	24.50	282	19	250.33	0	19	0	-Measure-	0.094	-Measure-	-Measure-	-Measure-
Sub 4	NR Band n77 SRS2	3980	25.00	316	19	250.33	0	19	0	-Measure-	0.105	-Measure-	-Measure-	-Measure-
Sub3	NR Band n77 SRS3	3980	22.00	158	19	22	117.86	241.63	19	-Measure-	-Measure-	0.239	0.057	-Measure-
Main 2	NR Band n77(PC2)	3980	28.00	631	19	241.63	19	19	117.86	-Measure-	0.226	-Measure-	-Measure-	0.954
Sub 2	NR Band n77(PC2) SRS1	3980	28.00	631	19	250.33	0	19	0	-Measure-	0.210	-Measure-	-Measure-	-Measure-
Sub 4	NR Band n77(PC2) SRS2	3980	25.00	316	19	250.33	0	19	0	-Measure-	0.105	-Measure-	-Measure-	-Measure-
Sub3	NR Band n77(PC2) SRS3	3980	22.50	178	19	22	117.86	241.63	19	-Measure-	-Measure-	0.269	0.064	-Measure-
Main 2	NR Band n78	3980	28.00	631	19	241.63	19	19	117.86	-Measure-	0.226	-Measure-	-Measure-	0.954
Sub 2	NR Band n78 SRS1	3980	28.00	631	19	250.33	0	19	0	-Measure-	0.210	-Measure-	-Measure-	-Measure-
Sub 4	NR Band n78 SRS2	3980	25.00	316	19	250.33	0	19	0	-Measure-	0.105	-Measure-	-Measure-	-Measure-
Sub3	NR Band n78 SRS3	3980	22.50	178	19	22	117.86	241.63	19	-Measure-	-Measure-	0.269	0.064	-Measure-

Note(s):

When some device surfaces has Standalone SAR test Exclusion according to Section 7.1, Estimated SAR were calculated to the surfaces according to Section 7.2.

SAR Test Exclusion Calculation for WWAN (Proximity Sensor On)

Antenna	Tx Interface	Frequency (MHz)	Output Power		Separation Distances (mm)					Estimated 1-g SAR Value (W/kg)				
			dBm	mW	Rear	Top	R_Left	Bottom	R_Right	Rear	Top	R_Left	Bottom	R_Right
Power Back-off, Proximity Sensor On														
Main 1	W-CDMA 2	1910	14.50	28	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	W-CDMA 4	1755	13.50	22	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	W-CDMA 5	849	17.50	56	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	LTE Band 2	1910	13.50	22	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Sub 2	LTE Band 2	1910	11.00	13	0		0	0	0	-Measure-		-Measure-	-Measure-	-Measure-
Main 1	LTE Band 4	1755	13.00	20	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Sub 2	LTE Band 4	1755	11.00	13	0		0	0	0	-Measure-		-Measure-	-Measure-	-Measure-
Main 1	LTE Band 5	849	15.00	32	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	LTE Band 7	2570	13.00	20	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Sub 2	LTE Band 7	2570	10.50	11	0		0	0	0	-Measure-		-Measure-	-Measure-	-Measure-
Main 1	LTE Band 12	716	16.50	45	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	LTE Band 13	787	16.50	45	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	LTE Band 14	798	16.50	45	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	LTE Band 25	1915	13.50	22	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Sub 2	LTE Band 25	1915	11.00	13	0		0	0	0	-Measure-		-Measure-	-Measure-	-Measure-
Main 1	LTE Band 26	849	15.00	32	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	LTE Band 30	2315	13.50	22	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	LTE Band 66	1780	13.00	20	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Sub 2	LTE Band 66	1780	11.00	13	0		0	0	0	-Measure-		-Measure-	-Measure-	-Measure-
Main 1	LTE Band 71	698	20.00	100	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	LTE Band 41	2690	15.00	32	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	LTE Band 41 PC2	2690	15.00	32	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	NR Band n2	1910	13.50	22	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	NR Band n5	849	15.00	32	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	NR Band n12	716	16.50	45	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	NR Band n25	1915	13.50	22	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	NR Band n30	2315	13.50	22	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	NR Band n66	1780	13.00	20	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	NR Band n71	698	20.00	100	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Main 1	NR Band n41	2690	14.00	25	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Sub 2	NR Band n41 SRS1	2690	14.00	25	0		0	0	0	-Measure-		-Measure-	-Measure-	-Measure-
Sub 4	NR Band n41 SRS2	2690	14.00	25	0		0	0	0	-Measure-		-Measure-	-Measure-	-Measure-
Sub 1	NR Band n41 SRS3	2690	14.00	25	0			0	0	-Measure-			-Measure-	-Measure-
Main 1	NR Band n41 (PC2)	2690	14.00	25	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
Sub 2	NR Band n41 (PC2) SRS1	2690	14.00	25	0		0	0	0	-Measure-		-Measure-	-Measure-	-Measure-
Sub 4	NR Band n41 (PC2) SRS2	2690	14.00	25	0		0	0	0	-Measure-		-Measure-	-Measure-	-Measure-
Sub 1	NR Band n41 (PC2) SRS3	2690	14.00	25	0			0	0	-Measure-			-Measure-	-Measure-
Main 2	NR Band n77	3980	10.00	10	0		0	0		-Measure-		-Measure-	-Measure-	
Sub 2	NR Band n77 SRS1	3980	10.00	10	0		0	0	0	-Measure-		-Measure-	-Measure-	-Measure-
Sub 4	NR Band n77 SRS2	3980	10.00	10	0		0	0	0	-Measure-		-Measure-	-Measure-	-Measure-
Sub3	NR Band n77 SRS3	3980	10.00	10	0	0			0	-Measure-	-Measure-			-Measure-
Main 2	NR Band n77(PC2)	3980	10.00	10	0		0	0		-Measure-		-Measure-	-Measure-	
Sub 2	NR Band n77(PC2) SRS1	3980	10.00	10	0		0	0	0	-Measure-		-Measure-	-Measure-	-Measure-
Sub 4	NR Band n77(PC2) SRS2	3980	10.00	10	0		0	0	0	-Measure-		-Measure-	-Measure-	-Measure-
Sub3	NR Band n77(PC2) SRS3	3980	10.00	10	0	0			0	-Measure-	-Measure-			-Measure-
Main 2	NR Band n78	3980	10.00	10	0		0	0		-Measure-		-Measure-	-Measure-	
Sub 2	NR Band n78 SRS1	3980	10.00	10	0		0	0	0	-Measure-		-Measure-	-Measure-	-Measure-
Sub 4	NR Band n78 SRS2	3980	10.00	10	0		0	0	0	-Measure-		-Measure-	-Measure-	-Measure-
Sub3	NR Band n78 SRS3	3980	10.00	10	0	0			0	-Measure-	-Measure-			-Measure-

SAR Test Exclusion Calculation for WLAN/BT (Proximity Sensor Off/On)

Antenna	Tx Interface	Frequency (MHz)	Output Power		Separation Distances (mm)					Estimated 1-g SAR Value (W/kg)				
			dBm	mW	Rear	Top	R_Left	Bottom	R_Right	Rear	Top	R_Left	Bottom	R_Right
Full Power, Proximity Sensor Off. A sensor triggering of 20 mm is included for Rear, Left, Right and Bottom. 23mm is included for Top.														
WiFi 1	Bluetooth	2480	15.00	32	19	22	19	241.63	117.86	-Measure-	-Measure-	-Measure-	0.009	0.036
WiFi 1	Wi-Fi 2.4 GHz	2462	20.00	100	19	22	19	241.63	117.86	-Measure-	-Measure-	-Measure-	0.036	0.143
WiFi 2	Wi-Fi 5.2 GHz	5240	15.00	32	19	22	117.86	241.63	19	-Measure-	-Measure-	0.078	0.018	-Measure-
WiFi 2	Wi-Fi 5.3 GHz	5320	15.00	32	19	22	117.86	241.63	19	-Measure-	-Measure-	0.078	0.018	-Measure-
WiFi 2	Wi-Fi 5.6 GHz	5720	17.00	50	19	22	117.86	241.63	19	-Measure-	-Measure-	0.079	0.018	-Measure-
WiFi 2	Wi-Fi 5.8 GHz	5825	17.00	50	19	22	117.86	241.63	19	-Measure-	-Measure-	0.079	0.018	-Measure-
MIMO	Wi-Fi 2.4 GHz	2462	23.00	200	19	22	19	241.63	19	-Measure-	-Measure-	-Measure-	0.073	-Measure-
MIMO	Wi-Fi 5.2 GHz	5240	18.00	63	19	22	19	241.63	19	-Measure-	-Measure-	-Measure-	0.035	-Measure-
MIMO	Wi-Fi 5.3 GHz	5320	18.00	63	19	22	19	241.63	19	-Measure-	-Measure-	-Measure-	0.035	-Measure-
MIMO	Wi-Fi 5.6 GHz	5720	20.00	100	19	22	19	241.63	19	-Measure-	-Measure-	-Measure-	0.035	-Measure-
MIMO	Wi-Fi 5.8 GHz	5825	20.00	100	19	22	19	241.63	19	-Measure-	-Measure-	-Measure-	0.035	-Measure-
Power Back-off, Proximity Sensor On														
WiFi 1	Bluetooth	2480	11.00	13	0	0	0			-Measure-	-Measure-	-Measure-		
WiFi 1	Wi-Fi 2.4 GHz	2462	12.00	16	0	0	0			-Measure-	-Measure-	-Measure-		
WiFi 2	Wi-Fi 5.2 GHz	5240	6.50	4	0	0			0	-Measure-	-Measure-			-Measure-
WiFi 2	Wi-Fi 5.3 GHz	5320	6.50	4	0	0			0	-Measure-	-Measure-			-Measure-
WiFi 2	Wi-Fi 5.6 GHz	5720	10.00	10	0	0			0	-Measure-	-Measure-			-Measure-
WiFi 2	Wi-Fi 5.8 GHz	5825	9.50	9	0	0			0	-Measure-	-Measure-			-Measure-
MIMO	Wi-Fi 2.4 GHz	2462	15.00	32	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
MIMO	Wi-Fi 5.2 GHz	5240	9.50	9	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
MIMO	Wi-Fi 5.3 GHz	5320	9.50	9	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
MIMO	Wi-Fi 5.6 GHz	5720	13.00	20	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-
MIMO	Wi-Fi 5.8 GHz	5825	12.50	18	0	0	0		0	-Measure-	-Measure-	-Measure-		-Measure-

Note(s):

1. When some device surfaces has Standalone SAR test Exclusion according to Section 7.1, Estimated SAR were calculated to the surfaces according to Section 7.2.

7.3. Required Test configurations

The table below identifies the standalone test configurations required for this device accordant to the findings in SAR Test Exclusion Calculation table.

Antenna	Tx Interface	Proximity sensor (On/Off)	Rear	Top	R/Left	Bottom	R/Right
Main 1	WWAN Bands	OFF	Yes	Yes	Yes	No	Yes
		ON	Yes	Yes	Yes	N/A	Yes
Main.2	WWAN Bands	OFF	Yes	No	Yes	Yes	No
		ON	Yes	N/A	Yes	Yes	N/A
Sub.1	SRS mode	OFF	Yes	No	Yes	Yes	Yes
		ON	Yes	N/A	N/A	Yes	Yes
Sub.2	WWAN Bands/ SRS mode	OFF	Yes	No	Yes	Yes	Yes
		ON	Yes	N/A	N/A	Yes	N/A
Sub.3	SRS mode	OFF	Yes	Yes	No	No	Yes
		ON	Yes	Yes	N/A	N/A	Yes
Sub.4	SRS mode	OFF	Yes	No	Yes	Yes	Yes
		ON	Yes	N/A	N/A	Yes	N/A
WiFi Ant.1	BT/WiFi 2.4GHz	OFF	Yes	Yes	Yes	No	No
		ON	Yes	Yes	Yes	N/A	N/A
WiFi Ant.2	WiFi 5GHz	OFF	Yes	Yes	No	No	Yes
		ON	Yes	Yes	N/A	N/A	Yes
WiFi MIMO	WiFi 2.4GHz/5Ghz	OFF	Yes	Yes	Yes	No	Yes
		ON	Yes	Yes	Yes	N/A	Yes

Note(s):

1. Yes = Testing is required. No = Testing is not required.
2. N/A = Power back-off is not implemented in certain position using proximity sensor active.
3. The laptop configuration with the accessory keyboard connected was not evaluated as this was considered to be covered by the R/Right tests.

8. Dielectric Property Measurements & System Check

8.1. Dielectric Property Measurements

The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within ± 2°C of the temperature when the tissue parameters are characterized.
The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The Tissue Dielectric parameters (100MHz to 6GHz) should be re-measured after each 3 – 4 days of use; or earlier if the dielectric parameters can become out of tolerance; for example, when the parameters are marginal at the beginning of the measurement series.
Tissue dielectric parameters were measured at the low, middle and high frequency of each operating frequency range of the test device.
For The Tissue Dielectric parameters (4MHz to 30MHz). The parameters must be measured before 24 hours.

1. Tissue Dielectric Parameters (100MHz to 6GHz)
FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

Target Frequency (MHz)	Head		Body	
	ε_r	σ (S/m)	ε_r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5000	36.2	4.45	49.3	5.07
5100	36.1	4.55	49.1	5.18
5200	36.0	4.66	49.0	5.30
5300	35.9	4.76	48.9	5.42
5400	35.8	4.86	48.7	5.53
5500	35.6	4.96	48.6	5.65
5600	35.5	5.07	48.5	5.77
5700	35.4	5.17	48.3	5.88
5800	35.3	5.27	48.2	6.00

SAR test were performed in All RF exposure conditions using Head tissue according to TCB workshop note of April. 2019.

IEEE Std 1528-2013
Refer to Table 3 within the IEEE Std 1528-2013

Dielectric Property Measurements Results:

SAR 1 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2023-06-05	Head 750	e'	41.4600	Relative Permittivity (ϵ_r):	41.46	41.96	-1.20	5
		e"	21.4500	Conductivity (σ):	0.89	0.89	0.16	5
	Head 680	e'	41.6600	Relative Permittivity (ϵ_r):	41.66	42.32	-1.56	5
		e"	23.0500	Conductivity (σ):	0.87	0.89	-1.82	5
	Head 790	e'	41.2800	Relative Permittivity (ϵ_r):	41.28	41.76	-1.14	5
		e"	20.6300	Conductivity (σ):	0.91	0.90	1.12	5
2023-06-05	Head 835	e'	41.1900	Relative Permittivity (ϵ_r):	41.19	41.50	-0.75	5
		e"	19.8800	Conductivity (σ):	0.92	0.90	2.56	5
	Head 820	e'	41.2100	Relative Permittivity (ϵ_r):	41.21	41.60	-0.94	5
		e"	20.1100	Conductivity (σ):	0.92	0.90	2.05	5
	Head 850	e'	41.1700	Relative Permittivity (ϵ_r):	41.17	41.50	-0.80	5
		e"	19.5800	Conductivity (σ):	0.93	0.92	1.14	5
2023-06-09	Head 750	e'	43.3700	Relative Permittivity (ϵ_r):	43.37	41.96	3.36	5
		e"	21.5100	Conductivity (σ):	0.90	0.89	0.44	5
	Head 680	e'	43.5000	Relative Permittivity (ϵ_r):	43.50	42.32	2.79	5
		e"	23.2300	Conductivity (σ):	0.88	0.89	-1.05	5
	Head 790	e'	43.1300	Relative Permittivity (ϵ_r):	43.13	41.76	3.29	5
		e"	20.6100	Conductivity (σ):	0.91	0.90	1.02	5
2023-06-09	Head 835	e'	43.0300	Relative Permittivity (ϵ_r):	43.03	41.50	3.69	5
		e"	19.9400	Conductivity (σ):	0.93	0.90	2.87	5
	Head 820	e'	43.0300	Relative Permittivity (ϵ_r):	43.03	41.60	3.43	5
		e"	20.1400	Conductivity (σ):	0.92	0.90	2.21	5
	Head 850	e'	43.0400	Relative Permittivity (ϵ_r):	43.04	41.50	3.71	5
		e"	19.7400	Conductivity (σ):	0.93	0.92	1.96	5
2023-06-28	Head 5250	e'	35.3600	Relative Permittivity (ϵ_r):	35.36	35.95	-1.64	5
		e"	15.6800	Conductivity (σ):	4.58	4.71	-2.82	5
	Head 5260	e'	35.3400	Relative Permittivity (ϵ_r):	35.34	35.94	-1.67	5
		e"	15.6800	Conductivity (σ):	4.59	4.72	-2.84	5
	Head 5600	e'	34.7500	Relative Permittivity (ϵ_r):	34.75	35.50	-2.11	5
		e"	15.9000	Conductivity (σ):	4.95	5.07	-2.35	5
	Head 5800	e'	34.4200	Relative Permittivity (ϵ_r):	34.42	35.30	-2.49	5
		e"	16.0200	Conductivity (σ):	5.17	5.27	-1.97	5
	Head 5925	e'	34.2100	Relative Permittivity (ϵ_r):	34.21	35.18	-2.74	5
		e"	16.0900	Conductivity (σ):	5.30	5.40	-1.86	5
2023-07-03	Head 5250	e'	35.0500	Relative Permittivity (ϵ_r):	35.05	35.95	-2.50	5
		e"	15.7800	Conductivity (σ):	4.61	4.71	-2.20	5
	Head 5260	e'	35.0300	Relative Permittivity (ϵ_r):	35.03	35.94	-2.53	5
		e"	15.7800	Conductivity (σ):	4.62	4.72	-2.22	5
	Head 5600	e'	34.4100	Relative Permittivity (ϵ_r):	34.41	35.50	-3.07	5
		e"	16.0300	Conductivity (σ):	4.99	5.07	-1.55	5
	Head 5800	e'	34.0700	Relative Permittivity (ϵ_r):	34.07	35.30	-3.48	5
		e"	16.1900	Conductivity (σ):	5.22	5.27	-0.93	5
	Head 5925	e'	33.8500	Relative Permittivity (ϵ_r):	33.85	35.18	-3.77	5
		e"	16.2800	Conductivity (σ):	5.36	5.40	-0.70	5

SAR 2 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2023-06-07	Head 1750	e'	41.3500	Relative Permittivity (ϵ_r):	41.35	40.08	3.16	5
		e''	13.7500	Conductivity (σ):	1.34	1.37	-2.27	5
	Head 1710	e'	41.4500	Relative Permittivity (ϵ_r):	41.45	40.15	3.25	5
		e''	13.7200	Conductivity (σ):	1.30	1.35	-3.11	5
	Head 1755	e'	41.3400	Relative Permittivity (ϵ_r):	41.34	40.08	3.15	5
		e''	13.7500	Conductivity (σ):	1.34	1.37	-2.19	5
2023-06-07	Head 1900	e'	41.0300	Relative Permittivity (ϵ_r):	41.03	40.00	2.58	5
		e''	13.4100	Conductivity (σ):	1.42	1.40	1.19	5
	Head 1850	e'	41.1400	Relative Permittivity (ϵ_r):	41.14	40.00	2.85	5
		e''	13.4600	Conductivity (σ):	1.38	1.40	-1.10	5
	Head 1910	e'	41.0100	Relative Permittivity (ϵ_r):	41.01	40.00	2.53	5
		e''	13.3800	Conductivity (σ):	1.42	1.40	1.50	5
2023-06-13	Head 2600	e'	40.3000	Relative Permittivity (ϵ_r):	40.30	39.01	3.30	5
		e''	13.6600	Conductivity (σ):	1.97	1.96	0.64	5
	Head 2500	e'	40.4200	Relative Permittivity (ϵ_r):	40.42	39.14	3.28	5
		e''	13.7800	Conductivity (σ):	1.92	1.85	3.32	5
	Head 2700	e'	39.9200	Relative Permittivity (ϵ_r):	39.92	38.88	2.66	5
		e''	13.6900	Conductivity (σ):	2.06	2.07	-0.73	5
2023-06-16	Head 2600	e'	39.4700	Relative Permittivity (ϵ_r):	39.47	39.01	1.18	5
		e''	13.1700	Conductivity (σ):	1.90	1.96	-2.97	5
	Head 2495	e'	39.5400	Relative Permittivity (ϵ_r):	39.54	39.14	1.01	5
		e''	13.0800	Conductivity (σ):	1.81	1.85	-1.84	5
	Head 2700	e'	39.2800	Relative Permittivity (ϵ_r):	39.28	38.88	1.02	5
		e''	13.2500	Conductivity (σ):	1.99	2.07	-3.92	5
2023-06-20	Head 2600	e'	37.8300	Relative Permittivity (ϵ_r):	37.83	39.00	-3.00	5
		e''	13.9100	Conductivity (σ):	2.01	1.96	2.60	5
	Head 2495	e'	37.8700	Relative Permittivity (ϵ_r):	37.87	39.14	-3.24	5
		e''	13.9200	Conductivity (σ):	1.93	1.85	4.50	5
	Head 2700	e'	37.7200	Relative Permittivity (ϵ_r):	37.72	38.88	-2.97	5
		e''	13.9700	Conductivity (σ):	2.10	2.07	1.32	5
2023-06-21	Head 2250	e'	38.5200	Relative Permittivity (ϵ_r):	38.52	39.54	-2.59	5
		e''	13.1300	Conductivity (σ):	1.64	1.62	1.22	5
	Head 2300	e'	38.3800	Relative Permittivity (ϵ_r):	38.38	39.46	-2.73	5
		e''	13.1600	Conductivity (σ):	1.68	1.67	0.95	5
	Head 2350	e'	38.3200	Relative Permittivity (ϵ_r):	38.32	39.37	-2.67	5
		e''	13.1600	Conductivity (σ):	1.72	1.71	0.48	5
2023-06-26	Head 2600	e'	38.3900	Relative Permittivity (ϵ_r):	38.39	39.00	-1.56	5
		e''	13.3800	Conductivity (σ):	1.93	1.96	-1.31	5
	Head 2495	e'	38.5800	Relative Permittivity (ϵ_r):	38.58	39.14	-1.43	5
		e''	13.2900	Conductivity (σ):	1.84	1.85	-0.23	5
	Head 2700	e'	38.2000	Relative Permittivity (ϵ_r):	38.20	38.88	-1.74	5
		e''	13.4000	Conductivity (σ):	2.01	2.07	-2.82	5
2023-06-27	Head 5250	e'	35.7100	Relative Permittivity (ϵ_r):	35.71	35.93	-0.62	5
		e''	16.0900	Conductivity (σ):	4.70	4.70	-0.11	5
	Head 5260	e'	35.6900	Relative Permittivity (ϵ_r):	35.69	35.92	-0.65	5
		e''	16.1000	Conductivity (σ):	4.71	4.71	-0.08	5
	Head 5600	e'	35.0800	Relative Permittivity (ϵ_r):	35.08	35.53	-1.28	5
		e''	16.3100	Conductivity (σ):	5.08	5.06	0.36	5
	Head 5800	e'	34.7400	Relative Permittivity (ϵ_r):	34.74	35.30	-1.59	5
		e''	16.4600	Conductivity (σ):	5.31	5.27	0.73	5
	Head 5925	e'	34.5200	Relative Permittivity (ϵ_r):	34.52	35.20	-1.93	5
		e''	16.5400	Conductivity (σ):	5.45	5.40	0.91	5
2023-07-03	Head 2450	e'	37.9900	Relative Permittivity (ϵ_r):	37.99	39.20	-3.09	5
		e''	13.5600	Conductivity (σ):	1.85	1.80	2.62	5
	Head 2400	e'	38.0900	Relative Permittivity (ϵ_r):	38.09	39.29	-3.04	5
		e''	13.5400	Conductivity (σ):	1.81	1.76	2.91	5
	Head 2500	e'	37.8700	Relative Permittivity (ϵ_r):	37.87	39.13	-3.23	5
		e''	13.5400	Conductivity (σ):	1.88	1.85	1.56	5

SAR 2 Room (Continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2023-07-03	Head 2600	e'	37.7400	Relative Permittivity (ε_r):	37.74	39.00	-3.23	5
		e"	13.5300	Conductivity (σ):	1.96	1.96	-0.20	5
	Head 2495	e'	37.8800	Relative Permittivity (ε_r):	37.88	39.14	-3.22	5
		e"	13.5500	Conductivity (σ):	1.88	1.85	1.72	5
	Head 2700	e'	37.6000	Relative Permittivity (ε_r):	37.60	38.88	-3.28	5
		e"	13.6200	Conductivity (σ):	2.04	2.07	-1.22	5
07-05-2023	head 2250	e'	38.3100	Relative Permittivity (ε_r):	38.31	39.56	-3.16	5
		e"	13.4600	Conductivity (σ):	1.68	1.62	3.96	5
	head 2300	e'	38.3100	Relative Permittivity (ε_r):	38.31	39.47	-2.95	5
		e"	13.5000	Conductivity (σ):	1.73	1.66	3.77	5
	head 2350	e'	38.2200	Relative Permittivity (ε_r):	38.22	39.38	-2.96	5
		e"	13.5300	Conductivity (σ):	1.77	1.71	3.53	5
2023-07-07	Head 2450	e'	38.2500	Relative Permittivity (ε_r):	38.25	39.20	-2.42	5
		e"	12.9800	Conductivity (σ):	1.77	1.80	-1.76	5
	Head 2400	e'	38.3400	Relative Permittivity (ε_r):	38.34	39.30	-2.43	5
		e"	13.0100	Conductivity (σ):	1.74	1.75	-0.88	5
	Head 2500	e'	38.1800	Relative Permittivity (ε_r):	38.18	39.14	-2.45	5
		e"	12.9400	Conductivity (σ):	1.80	1.85	-2.98	5
2023-07-10	Head 3500	e'	37.9200	Relative Permittivity (ε_r):	37.92	37.93	-0.03	5
		e"	14.5700	Conductivity (σ):	2.84	2.91	-2.61	5
	Head 3600	e'	37.7200	Relative Permittivity (ε_r):	37.72	37.82	-0.25	5
		e"	14.6700	Conductivity (σ):	2.94	3.01	-2.57	5
	Head 3700	e'	37.5300	Relative Permittivity (ε_r):	37.53	37.70	-0.45	5
		e"	14.7500	Conductivity (σ):	3.03	3.12	-2.62	5
	Head 3800	e'	37.3400	Relative Permittivity (ε_r):	37.34	37.59	-0.66	5
		e"	14.8400	Conductivity (σ):	3.14	3.22	-2.58	5
	Head 3900	e'	37.1600	Relative Permittivity (ε_r):	37.16	37.47	-0.84	5
		e"	14.9300	Conductivity (σ):	3.24	3.32	-2.51	5
	Head 3980	e'	37.0200	Relative Permittivity (ε_r):	37.02	37.38	-0.97	5
		e"	15.0100	Conductivity (σ):	3.32	3.40	-2.38	5
2023-07-14	Head 3500	e'	38.0300	Relative Permittivity (ε_r):	38.03	37.93	0.26	5
		e"	14.5400	Conductivity (σ):	2.83	2.91	-2.81	5
	Head 3600	e'	37.8300	Relative Permittivity (ε_r):	37.83	37.82	0.04	5
		e"	14.6000	Conductivity (σ):	2.92	3.01	-3.03	5
	Head 3700	e'	37.6500	Relative Permittivity (ε_r):	37.65	37.70	-0.14	5
		e"	14.6700	Conductivity (σ):	3.02	3.12	-3.15	5
	Head 3800	e'	37.4800	Relative Permittivity (ε_r):	37.48	37.59	-0.29	5
		e"	14.7400	Conductivity (σ):	3.11	3.22	-3.23	5
	Head 3900	e'	37.3300	Relative Permittivity (ε_r):	37.33	37.47	-0.38	5
		e"	14.8300	Conductivity (σ):	3.22	3.32	-3.16	5
	Head 3980	e'	37.2100	Relative Permittivity (ε_r):	37.21	37.38	-0.46	5
		e"	14.9200	Conductivity (σ):	3.30	3.40	-2.97	5
2023-07-19	Head 3500	e'	39.2700	Relative Permittivity (ε_r):	39.27	37.93	3.53	5
		e"	14.2600	Conductivity (σ):	2.78	2.91	-4.69	5
	Head 3600	e'	39.0800	Relative Permittivity (ε_r):	39.08	37.82	3.34	5
		e"	14.3700	Conductivity (σ):	2.88	3.01	-4.56	5
	Head 3700	e'	38.8800	Relative Permittivity (ε_r):	38.88	37.70	3.13	5
		e"	14.4800	Conductivity (σ):	2.98	3.12	-4.40	5
	Head 3800	e'	38.6600	Relative Permittivity (ε_r):	38.66	37.59	2.85	5
		e"	14.6100	Conductivity (σ):	3.09	3.22	-4.09	5
	Head 3900	e'	38.4400	Relative Permittivity (ε_r):	38.44	37.47	2.58	5
		e"	14.7600	Conductivity (σ):	3.20	3.32	-3.62	5
	Head 3980	e'	38.2600	Relative Permittivity (ε_r):	38.26	37.38	2.35	5
		e"	14.8100	Conductivity (σ):	3.28	3.40	-3.68	5

SAR 3 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2023-06-19	Head 1750	e'	40.1100	Relative Permittivity (ε_r):	40.11	40.08	0.06	5
		e"	13.8000	Conductivity (σ):	1.34	1.37	-1.91	5
	Head 1710	e'	40.2300	Relative Permittivity (ε_r):	40.23	40.15	0.21	5
		e"	13.8500	Conductivity (σ):	1.32	1.35	-2.19	5
	Head 1780	e'	40.0300	Relative Permittivity (ε_r):	40.03	40.04	-0.02	5
		e"	13.7300	Conductivity (σ):	1.36	1.39	-1.95	5
2023-06-19	Head 1900	e'	39.9100	Relative Permittivity (ε_r):	39.91	40.00	-0.23	5
		e"	13.4500	Conductivity (σ):	1.42	1.40	1.50	5
	Head 1850	e'	39.9200	Relative Permittivity (ε_r):	39.92	40.00	-0.20	5
		e"	13.5300	Conductivity (σ):	1.39	1.40	-0.59	5
	Head 1915	e'	39.9200	Relative Permittivity (ε_r):	39.92	40.00	-0.20	5
		e"	13.4400	Conductivity (σ):	1.43	1.40	2.22	5
2023-06-23	Head 1750	e'	39.4300	Relative Permittivity (ε_r):	39.43	40.08	-1.63	5
		e"	13.5900	Conductivity (σ):	1.32	1.37	-3.40	5
	Head 1710	e'	39.5700	Relative Permittivity (ε_r):	39.57	40.15	-1.44	5
		e"	13.6400	Conductivity (σ):	1.30	1.35	-3.68	5
	Head 1780	e'	39.3400	Relative Permittivity (ε_r):	39.34	40.04	-1.74	5
		e"	13.5100	Conductivity (σ):	1.34	1.39	-3.52	5
2023-06-23	Head 1900	e'	39.2600	Relative Permittivity (ε_r):	39.26	40.00	-1.85	5
		e"	13.3400	Conductivity (σ):	1.41	1.40	0.67	5
	Head 1850	e'	39.2800	Relative Permittivity (ε_r):	39.28	40.00	-1.80	5
		e"	13.3400	Conductivity (σ):	1.37	1.40	-1.98	5
	Head 1915	e'	39.2300	Relative Permittivity (ε_r):	39.23	40.00	-1.93	5
		e"	13.3500	Conductivity (σ):	1.42	1.40	1.54	5
2023-06-27	Head 1750	e'	39.8000	Relative Permittivity (ε_r):	39.80	40.08	-0.71	5
		e"	13.6600	Conductivity (σ):	1.33	1.37	-2.91	5
	Head 1710	e'	39.8400	Relative Permittivity (ε_r):	39.84	40.15	-0.76	5
		e"	13.6900	Conductivity (σ):	1.30	1.35	-3.32	5
	Head 1780	e'	39.7200	Relative Permittivity (ε_r):	39.72	40.04	-0.80	5
		e"	13.6300	Conductivity (σ):	1.35	1.39	-2.66	5
2023-06-27	Head 1900	e'	39.3900	Relative Permittivity (ε_r):	39.39	40.00	-1.53	5
		e"	13.3300	Conductivity (σ):	1.41	1.40	0.59	5
	Head 1850	e'	39.4900	Relative Permittivity (ε_r):	39.49	40.00	-1.28	5
		e"	13.4900	Conductivity (σ):	1.39	1.40	-0.88	5
	Head 1915	e'	39.3700	Relative Permittivity (ε_r):	39.37	40.00	-1.58	5
		e"	13.2900	Conductivity (σ):	1.42	1.40	1.08	5
2023-07-03	Head 1750	e'	39.8900	Relative Permittivity (ε_r):	39.89	40.08	-0.49	5
		e"	13.6700	Conductivity (σ):	1.33	1.37	-2.83	5
	Head 1710	e'	39.9800	Relative Permittivity (ε_r):	39.98	40.15	-0.41	5
		e"	13.6900	Conductivity (σ):	1.30	1.35	-3.32	5
	Head 1755	e'	39.8800	Relative Permittivity (ε_r):	39.88	40.08	-0.49	5
		e"	13.6700	Conductivity (σ):	1.33	1.37	-2.76	5
2023-07-03	Head 1900	e'	39.5400	Relative Permittivity (ε_r):	39.54	40.00	-1.15	5
		e"	13.2900	Conductivity (σ):	1.40	1.40	0.29	5
	Head 1850	e'	39.6000	Relative Permittivity (ε_r):	39.60	40.00	-1.00	5
		e"	13.4400	Conductivity (σ):	1.38	1.40	-1.25	5
	Head 1910	e'	39.5300	Relative Permittivity (ε_r):	39.53	40.00	-1.18	5
		e"	13.2600	Conductivity (σ):	1.41	1.40	0.59	5
2023-07-03	Head 2600	e'	39.0300	Relative Permittivity (ε_r):	39.03	39.01	0.05	5
		e"	13.1900	Conductivity (σ):	1.91	1.96	-2.82	5
	Head 2500	e'	39.1700	Relative Permittivity (ε_r):	39.17	39.14	0.08	5
		e"	13.0800	Conductivity (σ):	1.82	1.85	-1.93	5
	Head 2700	e'	38.8300	Relative Permittivity (ε_r):	38.83	38.88	-0.14	5
		e"	13.3100	Conductivity (σ):	2.00	2.07	-3.48	5
2023-07-07	Head 2600	e'	39.3100	Relative Permittivity (ε_r):	39.31	39.01	0.77	5
		e"	13.2700	Conductivity (σ):	1.92	1.96	-2.23	5
	Head 2495	e'	39.5000	Relative Permittivity (ε_r):	39.50	39.14	0.91	5
		e"	13.2700	Conductivity (σ):	1.84	1.85	-0.42	5
	Head 2700	e'	39.1100	Relative Permittivity (ε_r):	39.11	38.88	0.58	5
		e"	13.2500	Conductivity (σ):	1.99	2.07	-3.92	5
2023-07-11	Head 2600	e'	40.3200	Relative Permittivity (ε_r):	40.32	39.01	3.36	5
		e"	13.1600	Conductivity (σ):	1.90	1.96	-3.04	5
	Head 2495	e'	40.4000	Relative Permittivity (ε_r):	40.40	39.14	3.21	5
		e"	13.1000	Conductivity (σ):	1.82	1.85	-1.69	5
	Head 2700	e'	40.1500	Relative Permittivity (ε_r):	40.15	38.88	3.25	5
		e"	13.2900	Conductivity (σ):	2.00	2.07	-3.63	5

SAR 3 Room (Continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2023-07-13	Head 5200	e'	36.7300	Relative Permittivity (ε_r):	36.73	35.99	2.06	5
		e''	15.8700	Conductivity (σ):	4.59	4.65	-1.34	5
	Head 5250	e'	36.6200	Relative Permittivity (ε_r):	36.62	35.93	1.91	5
		e''	15.9200	Conductivity (σ):	4.65	4.70	-1.17	5
	Head 5600	e'	35.9200	Relative Permittivity (ε_r):	35.92	35.53	1.09	5
		e''	16.2300	Conductivity (σ):	5.05	5.06	-0.13	5
	Head 5750	e'	35.6400	Relative Permittivity (ε_r):	35.64	35.36	0.78	5
		e''	16.3800	Conductivity (σ):	5.24	5.21	0.45	5
	Head 5800	e'	35.5500	Relative Permittivity (ε_r):	35.55	35.30	0.71	5
		e''	16.4100	Conductivity (σ):	5.29	5.27	0.42	5
	Head 5925	e'	35.3200	Relative Permittivity (ε_r):	35.32	35.20	0.34	5
		e''	16.4900	Conductivity (σ):	5.43	5.40	0.60	5
2023-07-17	Head 5200	e'	36.4200	Relative Permittivity (ε_r):	36.42	35.99	1.19	5
		e''	15.6800	Conductivity (σ):	4.53	4.65	-2.52	5
	Head 5250	e'	36.3500	Relative Permittivity (ε_r):	36.35	35.93	1.16	5
		e''	15.7300	Conductivity (σ):	4.59	4.70	-2.35	5
	Head 5600	e'	35.7000	Relative Permittivity (ε_r):	35.70	35.53	0.47	5
		e''	16.0000	Conductivity (σ):	4.98	5.06	-1.55	5
	Head 5750	e'	35.4400	Relative Permittivity (ε_r):	35.44	35.36	0.22	5
		e''	16.1700	Conductivity (σ):	5.17	5.21	-0.84	5
	Head 5800	e'	35.3600	Relative Permittivity (ε_r):	35.36	35.30	0.17	5
		e''	16.1700	Conductivity (σ):	5.21	5.27	-1.05	5
	Head 5925	e'	35.1300	Relative Permittivity (ε_r):	35.13	35.20	-0.20	5
		e''	16.2600	Conductivity (σ):	5.36	5.40	-0.80	5

SAR 4 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2023-06-20	Head 750	e'	40.6700	Relative Permittivity (ϵ_r):	40.67	41.96	-3.08	5
		e''	21.7900	Conductivity (σ):	0.91	0.89	1.75	5
	Head 660	e'	40.8300	Relative Permittivity (ϵ_r):	40.83	42.42	-3.76	5
		e''	23.9500	Conductivity (σ):	0.88	0.89	-0.82	5
	Head 800	e'	40.4300	Relative Permittivity (ϵ_r):	40.43	41.71	-3.06	5
		e''	20.7500	Conductivity (σ):	0.92	0.90	2.91	5
2023-06-26	Head 750	e'	41.5800	Relative Permittivity (ϵ_r):	41.58	41.96	-0.91	5
		e''	21.8800	Conductivity (σ):	0.91	0.89	2.17	5
	Head 660	e'	41.7300	Relative Permittivity (ϵ_r):	41.73	42.42	-1.63	5
		e''	23.9800	Conductivity (σ):	0.88	0.89	-0.69	5
	Head 800	e'	41.3200	Relative Permittivity (ϵ_r):	41.32	41.71	-0.92	5
		e''	20.8100	Conductivity (σ):	0.93	0.90	3.21	5
2023-06-30	Head 750	e'	40.6400	Relative Permittivity (ϵ_r):	40.64	41.96	-3.15	5
		e''	21.6500	Conductivity (σ):	0.90	0.89	1.09	5
	Head 660	e'	40.9000	Relative Permittivity (ϵ_r):	40.90	42.42	-3.59	5
		e''	23.8500	Conductivity (σ):	0.88	0.89	-1.23	5
	Head 800	e'	40.5100	Relative Permittivity (ϵ_r):	40.51	41.71	-2.87	5
		e''	20.6700	Conductivity (σ):	0.92	0.90	2.51	5
2023-07-04	Head 835	e'	40.3600	Relative Permittivity (ϵ_r):	40.36	41.50	-2.75	5
		e''	20.0500	Conductivity (σ):	0.93	0.90	3.43	5
	Head 810	e'	40.4300	Relative Permittivity (ϵ_r):	40.43	41.65	-2.94	5
		e''	20.4800	Conductivity (σ):	0.92	0.90	2.75	5
	Head 850	e'	40.3000	Relative Permittivity (ϵ_r):	40.30	41.50	-2.89	5
		e''	19.7300	Conductivity (σ):	0.93	0.92	1.91	5
2023-07-06	Head 2250	e'	37.9400	Relative Permittivity (ϵ_r):	37.94	39.56	-4.10	5
		e''	13.4500	Conductivity (σ):	1.68	1.62	3.88	5
	Head 2300	e'	37.8600	Relative Permittivity (ϵ_r):	37.86	39.47	-4.09	5
		e''	13.4300	Conductivity (σ):	1.72	1.66	3.23	5
	Head 2350	e'	37.7300	Relative Permittivity (ϵ_r):	37.73	39.38	-4.20	5
		e''	13.4000	Conductivity (σ):	1.75	1.71	2.53	5
2023-07-10	Head 835	e'	40.6600	Relative Permittivity (ϵ_r):	40.66	41.50	-2.02	5
		e''	19.3200	Conductivity (σ):	0.90	0.90	-0.33	5
	Head 810	e'	40.7100	Relative Permittivity (ϵ_r):	40.71	41.65	-2.27	5
		e''	19.7700	Conductivity (σ):	0.89	0.90	-0.81	5
	Head 850	e'	40.6400	Relative Permittivity (ϵ_r):	40.64	41.50	-2.07	5
		e''	19.1500	Conductivity (σ):	0.91	0.92	-1.08	5
2023-07-10	Head 2250	e'	37.9400	Relative Permittivity (ϵ_r):	37.94	39.56	-4.10	5
		e''	13.4500	Conductivity (σ):	1.68	1.62	3.88	5
	Head 2300	e'	37.8600	Relative Permittivity (ϵ_r):	37.86	39.47	-4.09	5
		e''	13.4300	Conductivity (σ):	1.72	1.66	3.23	5
	Head 2350	e'	37.7900	Relative Permittivity (ϵ_r):	37.79	39.38	-4.05	5
		e''	13.4000	Conductivity (σ):	1.75	1.71	2.53	5
2023-07-14	Head 2450	e'	40.3400	Relative Permittivity (ϵ_r):	40.34	39.20	2.91	5
		e''	13.0000	Conductivity (σ):	1.77	1.80	-1.61	5
	Head 2400	e'	40.4400	Relative Permittivity (ϵ_r):	40.44	39.30	2.91	5
		e''	12.9800	Conductivity (σ):	1.73	1.75	-1.11	5
	Head 2500	e'	40.2500	Relative Permittivity (ϵ_r):	40.25	39.14	2.84	5
		e''	13.0100	Conductivity (σ):	1.81	1.85	-2.46	5
2023-07-17	Head 2450	e'	38.7600	Relative Permittivity (ϵ_r):	38.76	39.20	-1.12	5
		e''	13.0000	Conductivity (σ):	1.77	1.80	-1.61	5
	Head 2400	e'	38.8000	Relative Permittivity (ϵ_r):	38.80	39.30	-1.26	5
		e''	12.9800	Conductivity (σ):	1.73	1.75	-1.11	5
	Head 2500	e'	38.6800	Relative Permittivity (ϵ_r):	38.68	39.14	-1.17	5
		e''	12.9800	Conductivity (σ):	1.80	1.85	-2.68	5

SAR 5 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2023-06-19	Head 835	e'	41.4200	Relative Permittivity (ϵ_r):	41.42	41.50	-0.19	5
		e"	20.0900	Conductivity (σ):	0.93	0.90	3.64	5
	Head 810	e'	41.9100	Relative Permittivity (ϵ_r):	41.91	41.65	0.61	5
		e"	20.9000	Conductivity (σ):	0.94	0.90	4.86	5
	Head 850	e'	41.1600	Relative Permittivity (ϵ_r):	41.16	41.50	-0.82	5
		e"	19.7400	Conductivity (σ):	0.93	0.92	1.96	5
2023-06-23	Head 835	e'	40.5200	Relative Permittivity (ϵ_r):	40.52	41.50	-2.36	5
		e"	19.2300	Conductivity (σ):	0.89	0.90	-0.80	5
	Head 810	e'	40.8700	Relative Permittivity (ϵ_r):	40.87	41.65	-1.88	5
		e"	19.8500	Conductivity (σ):	0.89	0.90	-0.41	5
	Head 850	e'	40.3700	Relative Permittivity (ϵ_r):	40.37	41.50	-2.72	5
		e"	18.9900	Conductivity (σ):	0.90	0.92	-1.91	5
2023-06-27	Head 835	e'	41.8600	Relative Permittivity (ϵ_r):	41.86	41.50	0.87	5
		e"	18.7800	Conductivity (σ):	0.87	0.90	-3.12	5
	Head 810	e'	41.9500	Relative Permittivity (ϵ_r):	41.95	41.65	0.71	5
		e"	19.1800	Conductivity (σ):	0.86	0.90	-3.77	5
	Head 850	e'	41.8200	Relative Permittivity (ϵ_r):	41.82	41.50	0.77	5
		e"	18.5500	Conductivity (σ):	0.88	0.92	-4.18	5
2023-06-28	Head 3500	e'	39.4000	Relative Permittivity (ϵ_r):	39.40	37.93	3.88	5
		e"	14.9900	Conductivity (σ):	2.92	2.91	0.19	5
	Head 3600	e'	39.3300	Relative Permittivity (ϵ_r):	39.33	37.82	4.00	5
		e"	15.1800	Conductivity (σ):	3.04	3.01	0.82	5
	Head 3700	e'	39.2200	Relative Permittivity (ϵ_r):	39.22	37.70	4.03	5
		e"	15.3600	Conductivity (σ):	3.16	3.12	1.41	5
	Head 3800	e'	38.9800	Relative Permittivity (ϵ_r):	38.98	37.59	3.71	5
		e"	15.5100	Conductivity (σ):	3.28	3.22	1.82	5
	Head 3900	e'	38.8100	Relative Permittivity (ϵ_r):	38.81	37.47	3.57	5
		e"	15.6800	Conductivity (σ):	3.40	3.32	2.39	5
	Head 3980	e'	38.4800	Relative Permittivity (ϵ_r):	38.48	37.38	2.94	5
		e"	15.7500	Conductivity (σ):	3.49	3.40	2.43	5
2023-07-03	Head 3500	e'	38.3000	Relative Permittivity (ϵ_r):	38.30	37.93	0.98	5
		e"	14.4000	Conductivity (σ):	2.80	2.91	-3.75	5
	Head 3600	e'	38.0600	Relative Permittivity (ϵ_r):	38.06	37.82	0.65	5
		e"	14.4900	Conductivity (σ):	2.90	3.01	-3.76	5
	Head 3700	e'	37.9200	Relative Permittivity (ϵ_r):	37.92	37.70	0.58	5
		e"	14.6000	Conductivity (σ):	3.00	3.12	-3.61	5
	Head 3800	e'	37.7700	Relative Permittivity (ϵ_r):	37.77	37.59	0.49	5
		e"	14.7200	Conductivity (σ):	3.11	3.22	-3.37	5
	Head 3900	e'	37.6000	Relative Permittivity (ϵ_r):	37.60	37.47	0.34	5
		e"	14.8300	Conductivity (σ):	3.22	3.32	-3.16	5
	Head 3980	e'	37.3900	Relative Permittivity (ϵ_r):	37.39	37.38	0.02	5
		e"	14.9100	Conductivity (σ):	3.30	3.40	-3.03	5
2023-07-10	Head 3500	e'	38.5700	Relative Permittivity (ϵ_r):	38.57	37.93	1.69	5
		e"	14.3500	Conductivity (σ):	2.79	2.91	-4.08	5
	Head 3600	e'	38.3700	Relative Permittivity (ϵ_r):	38.37	37.82	1.47	5
		e"	14.4800	Conductivity (σ):	2.90	3.01	-3.83	5
	Head 3700	e'	38.1900	Relative Permittivity (ϵ_r):	38.19	37.70	1.30	5
		e"	14.6200	Conductivity (σ):	3.01	3.12	-3.48	5
	Head 3800	e'	37.9900	Relative Permittivity (ϵ_r):	37.99	37.59	1.07	5
		e"	14.7700	Conductivity (σ):	3.12	3.22	-3.04	5
	Head 3900	e'	37.7900	Relative Permittivity (ϵ_r):	37.79	37.47	0.85	5
		e"	14.9100	Conductivity (σ):	3.23	3.32	-2.64	5
	Head 3980	e'	37.6000	Relative Permittivity (ϵ_r):	37.60	37.38	0.58	5
		e"	15.0000	Conductivity (σ):	3.32	3.40	-2.45	5

8.2. System Check

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification of 100MHZ to 6GHz frequency range should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are re-measured or sooner when marginal liquid parameters are used at the beginning of a series of measurements. For The System verification of 4MHz to 30MHz frequency range, The System verification must be performed before 24 hours.

System Performance Check Measurement Conditions (100MHz to 6GHz):

- The measurements were performed in the flat section of the TWIN SAM or ELI phantom, shell thickness: 2.0 ±0.2 mm (bottom plate) filled with Body or Head simulating liquid of the following parameters.
- The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm for SAR measurements ≤ 3 GHz and ≥ 10.0 cm for measurements > 3 GHz.
- The DASY system with an E-Field Probe was used for the measurements.
- The dipole was mounted on the small tripod so that the dipole feed point was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 10 mm (above 1 GHz) and 15 mm (below 1 GHz) from dipole center to the simulating liquid surface.
- The coarse grid with a grid spacing of 15 mm was aligned with the dipole.
  For 5 GHz band - The coarse grid with a grid spacing of 10 mm was aligned with the dipole.
- Special 7x7x7 (below 3 GHz) and/or 8x8x7 (above 3 GHz) fine cube was chosen for the cube.
- Distance between probe sensors and phantom surface was set to 2.5 mm.
  For 5 GHz band - Distance between probe sensors and phantom surface was set to 1.4 mm
- The dipole input power (forward power) was 100 mW.
- The results are normalized to 1 W input power.

System Performance Check Measurement Conditions (4MHz to 30MHz):

- The measurements were performed in the flat section of the TWIN SAM or ELI phantom, shell thickness: 2.0 ±0.2 mm (bottom plate) filled with Body or Head simulating liquid of the following parameters.
- The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm for SAR measurements
- The DASY system with an E-Field Probe was used for the measurements.
- The CLA(Confined Loop Antennas) was mounted on the small tripod so that the CLA feed point was positioned below the center marking of the flat phantom section and the CLA was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 0 mm separation distance from CLA center to the Phantom surface.
- The CLA input power (forward power) was 100 mW.
- The results are normalized to 1 W input power.

Reference Target SAR Values

The reference SAR values can be obtained from the calibration certificate of system validation dipoles.

System Dipole	Serial No.	Cal. Date	Cal. Due Date	Target SAR Values (W/kg)	
				1g/10g	Head
D750V3	1122	2-24-2022	2-24-2024	1g	8.58
				10g	5.65
D835V2	4d174	9-21-2022	9-21-2024	1g	9.63
				10g	6.29
D1750V2	1180	9-21-2022	9-21-2024	1g	35.60
				10g	18.90
D1750V2	1125	11-30-2022	11-30-2024	1g	37.40
				10g	19.70
D1900V2	5d190	11-16-2022	11-16-2024	1g	39.70
				10g	20.70
D1900V2	5d199	3-25-2022	3-25-2024	1g	39.40
				10g	20.50
D2300V2	1115	4-25-2023	4-25-2025	1g	48.50
				10g	23.50
D2450V2	960	3-24-2022	3-24-2024	1g	51.90
				10g	24.00
D2600V2	1178	4-23-2023	4-23-2025	1g	57.40
				10g	25.70
D3500V2	1075	5-19-2023	5-19-2025	1g	65.50
				10g	24.70
D3700V2	1036	5-19-2023	5-19-2025	1g	67.80
				10g	24.50
D3900V2	1069	4-21-2023	4-21-2025	1g	69.40
				10g	24.00
D5GHzV2	1209	2-28-2023	2-28-2025	1g	80.40
				10g	22.90
				1g	83.10
				10g	23.60
				1g	81.20
				10g	22.90

Note(s):

1. For System Validation Dipole, Calibration interval applied every 2 years according to referencing KDB 865664 guidance.
2. For CLA, Calibration interval applied every year.
3. Refer to Appendix F that mentioned about justification for Extended SAR Dipole Calibrations.
4. All equipments were used until Cal.Due data.

System Check Results

The 1-g and 10-g SAR measured with a reference dipole, using the required tissue-equivalent medium at the test frequency, must be within 10% of the manufacturer calibrated dipole SAR target.

SAR 1 Room

Date Tested	System Dipole		T.S. Liquid		Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #			Zoom Scan to 100 mW	Normalize to 1 W			
6-5-2023	D750V3	1122	Head	1g	0.85	8.5	8.58	-0.47	
				10g	0.58	5.8	5.65	3.01	
6-5-2023	D835V2	4d174	Head	1g	1.02	10.2	9.63	5.92	
				10g	0.65	6.5	6.29	3.34	
6-9-2023	D750V3	1122	Head	1g	0.88	8.8	8.58	2.68	
				10g	0.59	5.9	5.65	4.96	
6-9-2023	D835V2	4d174	Head	1g	1.04	10.4	9.63	8.00	1
				10g	0.65	6.5	6.29	3.66	
6-28-2023	D5GHzV2 (5250)	1209	Head	1g	8.05	80.5	80.40	0.12	
				10g	2.35	23.5	22.90	2.62	
6-28-2023	D5GHzV2 (5800)	1209	Head	1g	8.64	86.4	81.20	6.40	2
				10g	2.48	24.8	22.90	8.30	
7-3-2023	D5GHzV2 (5250)	1209	Head	1g	8.64	86.4	80.40	7.46	3
				10g	2.47	24.7	22.90	7.86	
7-3-2023	D5GHzV2 (5600)	1209	Head	1g	9.00	90.0	83.10	8.30	
				10g	2.56	25.6	23.60	8.47	
7-3-2023	D5GHzV2 (5800)	1209	Head	1g	8.41	84.1	81.20	3.57	
				10g	2.38	23.8	22.90	3.93	

SAR 2 Room

Date Tested	System Dipole		T.S. Liquid		Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #			Zoom Scan to 100 mW	Normalize to 1 W			
6-7-2023	D1750V2	1125	Head	1g	3.62	36.2	37.40	-3.21	
				10g	1.95	19.5	19.70	-1.02	
6-7-2023	D1900V2	5d190	Head	1g	4.03	40.3	39.70	1.51	
				10g	2.10	21.0	20.70	1.45	
6-13-2023	D2600V2	1178	Head	1g	5.85	58.5	57.40	1.92	
				10g	2.64	26.4	25.70	2.72	
6-16-2023	D2600V2	1178	Head	1g	5.22	52.2	57.40	-9.06	4
				10g	2.35	23.5	25.70	-8.56	
6-20-2023	D2600V2	1178	Head	1g	5.30	53.0	57.40	-7.67	
				10g	2.39	23.9	25.70	-7.00	
6-21-2023	D2300V2	1115	Head	1g	4.57	45.7	48.50	-5.77	
				10g	2.19	21.9	23.50	-6.81	
6-26-2023	D2600V2	1178	Head	1g	5.60	56.0	57.40	-2.44	
				10g	2.53	25.3	25.70	-1.56	
6-27-2023	D5GHzV2	1209	Head	1g	8.14	81.4	80.40	1.24	
				10g	2.33	23.3	22.90	1.75	
6-27-2023	D5GHzV2	1209	Head	1g	9.04	90.4	83.10	8.78	5
				10g	2.54	25.4	23.60	7.63	
6-27-2023	D5GHzV2 (5800)	1209	Head	1g	8.47	84.7	81.20	4.31	
				10g	2.39	23.9	22.90	4.37	
7-3-2023	D2450V2	960	Head	1g	5.13	51.3	51.90	-1.16	
				10g	2.40	24.0	24.00	0.00	
7-3-2023	D2600V2	1178	Head	1g	5.52	55.2	57.40	-3.83	
				10g	2.49	24.9	25.70	-3.11	
7-5-2023	D2300V2	1115	Head	1g	4.73	47.3	48.50	-2.47	
				10g	2.28	22.8	23.50	-2.98	
7-7-2023	D2450V2	960	Head	1g	4.99	49.9	51.90	-3.85	6
				10g	2.33	23.3	24.00	-2.92	
7-10-2023	D3500V2	1075	Head	1g	6.39	63.9	65.50	-2.44	
				10g	2.46	24.6	24.70	-0.40	
7-10-2023	D3700V2	1036	Head	1g	6.18	61.8	67.90	-8.98	7
				10g	2.30	23.0	24.30	-5.35	
7-10-2023	D3900V2	1069	Head	1g	6.55	65.5	69.40	-5.62	8
				10g	2.36	23.6	24.00	-1.67	
7-14-2023	D3500V2	1075	Head	1g	6.57	65.7	65.50	0.31	
				10g	2.53	25.3	24.70	2.43	
7-14-2023	D3700V2	1036	Head	1g	6.95	69.5	67.90	2.36	
				10g	2.59	25.9	24.30	6.58	
7-14-2023	D3900V2	1069	Head	1g	6.83	68.3	69.40	-1.59	
				10g	2.47	24.7	24.00	2.92	
7-19-2023	D3900V2	1069	Head	1g	7.14	71.4	69.40	2.88	
				10g	2.55	25.5	24.00	6.25	

SAR 3 Room

Date Tested	System Dipole		T.S. Liquid		Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #			Zoom Scan to 100 mW	Normalize to 1 W			
6-19-2023	D1750V2	1125	Head	1g	3.62	36.2	37.40	-3.21	9
				10g	2.01	20.1	19.70	2.03	
6-19-2023	D1900V2	5d190	Head	1g	3.86	38.6	39.70	-2.77	
				10g	2.11	21.1	20.70	1.93	
6-23-2023	D1750V2	1180	Head	1g	3.57	35.7	35.60	0.28	
				10g	2.00	20.0	18.90	5.82	
6-23-2023	D1900V2	5d199	Head	1g	3.97	39.7	39.40	0.76	
				10g	2.16	21.6	20.50	5.37	
6-27-2023	D1750V2	1180	Head	1g	3.58	35.8	35.60	0.56	
				10g	2.00	20.0	18.90	5.82	
6-27-2023	D1900V2	5d199	Head	1g	3.83	38.3	39.40	-2.79	
				10g	2.08	20.8	20.50	1.46	
7-3-2023	D1750V2	1125	Head	1g	3.70	37.0	37.40	-1.07	
				10g	2.05	20.5	19.70	4.06	
7-3-2023	D1900V2	5d190	Head	1g	3.85	38.5	39.70	-3.02	10
				10g	2.09	20.9	20.70	0.97	
7-3-2023	D2600V2	1178	Head	1g	5.77	57.7	57.40	0.52	
				10g	2.71	27.1	25.70	5.45	
7-7-2023	D2600V2	1178	Head	1g	5.47	54.7	57.40	-4.70	
				10g	2.58	25.8	25.70	0.39	
7-11-2023	D2600V2	1178	Head	1g	5.67	56.7	57.40	-1.22	
				10g	2.58	25.8	25.70	0.39	
7-13-2023	D5GHzV2	1209	Head	1g	8.27	82.7	83.10	-0.48	
				10g	2.32	23.2	23.60	-1.69	
7-13-2023	D5GHzV2 (5800)	1209	Head	1g	8.14	81.4	81.20	0.25	
				10g	2.30	23.0	22.90	0.44	
7-17-2023	D5GHzV2 (5600)	1209	Head	1g	8.23	82.3	83.10	-0.96	
				10g	2.39	23.9	23.60	1.27	
7-17-2023	D5GHzV2 (5800)	1209	Head	1g	7.93	79.3	81.20	-2.34	
				10g	2.30	23.0	22.90	0.44	

SAR 4 Room

Date Tested	System Dipole		T.S. Liquid		Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #			Zoom Scan to 100 mW	Normalize to 1 W			
6-20-2023	D750V3	1122	Head	1g	0.80	8.0	8.58	-6.64	11
				10g	0.54	5.4	5.65	-4.25	
6-26-2023	D750V3	1122	Head	1g	0.81	8.1	8.58	-5.36	
				10g	0.54	5.4	5.65	-3.89	
6-30-2023	D750V3	1122	Head	1g	0.89	8.9	8.58	3.85	
				10g	0.59	5.9	5.65	3.89	
7-4-2023	D750V3	1122	Head	1g	0.84	8.4	8.58	-2.68	
				10g	0.56	5.6	5.65	-0.88	
7-4-2023	D835V2	4d174	Head	1g	0.91	9.1	9.63	-5.92	
				10g	0.61	6.1	6.29	-3.66	
7-6-2023	D2300V2	1115	Head	1g	4.41	44.1	48.50	-9.07	12
				10g	2.16	21.6	23.50	-8.09	
7-10-2023	D835V2	4d174	Head	1g	0.88	8.8	9.63	-8.31	
				10g	0.58	5.8	6.29	-7.31	
7-10-2023	D2300V2	1115	Head	1g	4.76	47.6	48.50	-1.86	
				10g	2.36	23.6	23.50	0.43	
7-13-2023	D750V3	1122	Head	1g	0.82	8.2	8.58	-3.96	
				10g	0.56	5.6	5.65	-1.06	
7-13-2023	D2600V2	1178	Head	1g	5.63	56.3	57.40	-1.92	
				10g	2.66	26.6	25.70	3.50	
7-14-2023	D2450V2	960	Head	1g	5.11	51.1	51.90	-1.54	
				10g	2.49	24.9	24.00	3.75	
7-17-2023	D2450V2	960	Head	1g	5.25	52.5	51.90	1.16	
				10g	2.54	25.4	24.00	5.83	

SAR 5 Room

Date Tested	System Dipole		T.S. Liquid		Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #			Zoom Scan to 100 mW	Normalize to 1 W			
6-19-2023	D835V2	4d174	Head	1g	1.00	10.0	9.63	3.84	
				10g	0.69	6.9	6.29	9.86	
6-23-2023	D835V2	4d174	Head	1g	0.94	9.4	9.63	-2.49	
				10g	0.65	6.5	6.29	2.86	
6-27-2023	D835V2	4d174	Head	1g	0.93	9.3	9.63	-3.12	
				10g	0.64	6.4	6.29	1.91	
6-28-2023	D3500V2	1075	Head	1g	6.03	60.3	65.50	-7.94	13
				10g	2.48	24.8	24.70	0.40	
6-28-2023	D3700V2	1036	Head	1g	6.50	65.0	67.90	-4.27	
				10g	2.56	25.6	24.30	5.35	
6-28-2023	D3900V2	1069	Head	1g	6.62	66.2	69.40	-4.61	
				10g	2.52	25.2	24.00	5.00	
7-3-2023	D3500V2	1075	Head	1g	6.36	63.6	65.50	-2.90	
				10g	2.64	26.4	24.70	6.88	
7-3-2023	D3700V2	1036	Head	1g	6.32	63.2	67.90	-6.92	
				10g	2.53	25.3	24.30	4.12	
7-3-2023	D3900V2	1069	Head	1g	6.72	67.2	69.40	-3.17	
				10g	2.60	26.0	24.00	8.33	
7-10-2023	D3500V2	1075	Head	1g	6.17	61.7	65.50	-5.80	
				10g	2.51	25.1	24.70	1.62	
7-10-2023	D3700V2	1036	Head	1g	6.74	67.4	67.90	-0.74	
				10g	2.64	26.4	24.30	8.64	
7-10-2023	D3900V2	1069	Head	1g	6.71	67.1	69.40	-3.31	
				10g	2.52	25.2	24.00	5.00	

9. Conducted Output Power Measurements

9.1. W-CDMA

Release 99 Setup Procedures used to establish the test signals

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The DUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7).

Mode	Subtest	Rel99
WCDMA General Settings	Loopback Mode	Test Mode 2
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	βc/βd	8/15

HSDPA Setup Procedures used to establish the test signals

The following 4 Sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subtest	1	2	3	4
W-CDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set 1			
	Power Control Algorithm	Algorithm 2			
	βc	2/15	11/15	15/15	15/15
	βd	15/15	15/15	8/15	4/15
	Bd (SF)	64			
	βc/βd	2/15	11/15	15/8	15/4
	βhs	4/15	24/15	30/15	30/15
	MPR (dB)	0	0	0.5	0.5
HSDPA Specific Settings	D_{ACK}	8			
	D_{NAK}	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback (Table 5.2B.4)	4ms			
	CQI Repetition Factor (Table 5.2B.4)	2			
	Ahs=βhs/βc	30/15			

HSPA (HSDPA & HSUPA) Setup Procedures used to establish the test signals

The following 5 Sub-tests were completed according to Release 6 procedures in table C,11.1.3 of 3GPP TS 34.121-1 v13.
A summary of these settings are illustrated below:

	Mode	HSPA				
	Subtest	1	2	3	4	5
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2 kbps RMC				
	HSDPA FRC	H-Set 1				
	HSUPA Test	HSPA				
	Power Control Algorithm	Algorithm 2				Algorithm 1
	βc	11/15	6/15	15/15	2/15	15/15
	βd	15/15	15/15	9/15	15/15	0
	βec	209/225	12/15	30/15	2/15	5/15
	βc/βd	11/15	6/15	15/9	2/15	-
	βhs	22/15	12/15	30/15	4/15	5/15
	βed	1309/225	94/75	47/15	56/75	47/15
	CM (dB)	1	3	2	3	1
	MPR (dB)	0	2	1	2	0
HSDPA Specific Settings	DACK	8				0
	DNAK	8				0
	DCQI	8				0
	Ack-Nack repetition factor	3				
	CQI Feedback (Table 5.2B.4)	4ms				
	CQI Repetition Factor (Table 5.2B.4)	2				
	Ahs = βhs/βc	30/15				
HSUPA Specific Settings	E-DPDCH	6	8	8	5	0
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	12
	ETFCI (from 34.121 Table C.11.1.3)	75	67	92	71	67
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9
	Reference E-TFCIs	5	5	2	5	1
	Reference E-TFCI	11	11	11	11	67
	Reference E-TFCI PO	4	4	4	4	18
	Reference E-TFCI	67	67	92	67	67
	Reference E-TFCI PO	18	18	18	18	18
	Reference E-TFCI	71	71	71	71	71
	Reference E-TFCI PO	23	23	23	23	23
	Reference E-TFCI	75	75	75	75	75
	Reference E-TFCI PO	26	26	26	26	26
	Reference E-TFCI	81	81	81	81	81
	Reference E-TFCI PO	27	27	27	27	27
	Maximum Channelization Codes	2xSF2				SF4

DC-HSDPA Setup Procedures used to establish the test signals

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS34.108 v9.5.0. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0

Table E.5.0: Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/Ior	dB	-10
P-CCPCH and SCH_Ec/Ior	dB	-12
PICH _Ec/Ior	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/Ior	dB	-5
OCNS_Ec/Ior	dB	-3.1

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.		
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		

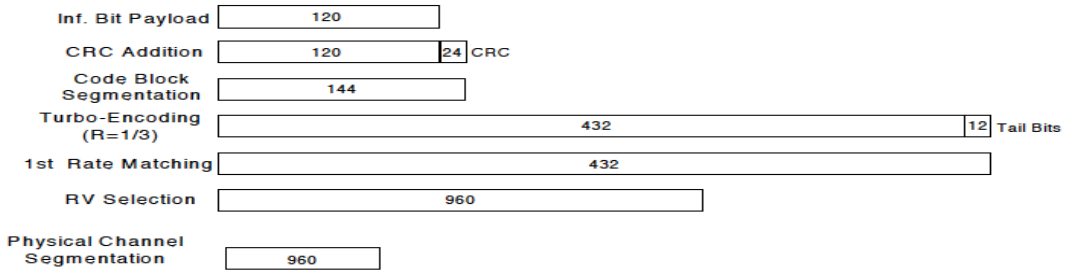


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 8 procedures in section 5.2 of 3GPP TS34.121. A summary of subtest settings are illustrated below:

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subtest	1	2	3	4
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set 12			
	Power Control Algorithm	Algorithm2			
	βc	2/15	11/15	15/15	15/15
	βd	15/15	15/15	8/15	4/15
	βd (SF)	64			
	βc/βd	2/15	11/15	15/8	15/4
	βhs	4/15	24/15	30/15	30/15
	MPR (dB)	0	0	0.5	0.5
HSDPA Specific Settings	DACK	8			
	DNAK	8			
	DCQI	8			
	Ack-Nack Repetition factor	3			
	CQI Feedback	4ms			
	CQI Repetition Factor	2			
	Ahs = βhs/ βc	30/15			

HSPA+

HSPA+ is only supported to down link. Therefore, the RF conducted power is not measured.

W-CDMA Band II Measured Results

Mode		UL Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)					
				DSI = 0			DSI = 1		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	23.02	N/A	24.50	13.24	N/A	14.50
		9400	1880.0	23.42			13.44		
		9538	1907.6	23.10			13.49		
HSDPA	Subtest 1	9262	1852.4	23.04	0	24.00	13.21	0	13.50
		9400	1880.0	23.34			13.42		
		9538	1907.6	22.93			13.46		
	Subtest 2	9262	1852.4	22.70	0	24.00	13.23	0	13.50
		9400	1880.0	22.92			13.41		
		9538	1907.6	22.58			13.43		
	Subtest 3	9262	1852.4	22.24	0.5	23.50	13.32	0.0	13.50
		9400	1880.0	22.54			13.48		
		9538	1907.6	22.30			13.46		
	Subtest 4	9262	1852.4	21.85	0.5	23.50	13.36	0.0	13.50
		9400	1880.0	22.20			13.46		
		9538	1907.6	21.96			13.47		
HSUPA	Subtest 1	9262	1852.4	22.44	0	24.00	12.26	0	13.50
		9400	1880.0	22.49			12.44		
		9538	1907.6	22.67			12.43		
	Subtest 2	9262	1852.4	19.81	2	22.00	12.38	0	13.50
		9400	1880.0	19.94			12.54		
		9538	1907.6	20.17			12.55		
	Subtest 3	9262	1852.4	22.39	1	23.00	12.25	0	13.50
		9400	1880.0	22.46			12.43		
		9538	1907.6	22.64			12.46		
	Subtest 4	9262	1852.4	20.32	2	22.00	12.39	0	13.50
		9400	1880.0	20.40			12.57		
		9538	1907.6	20.60			12.54		
	Subtest 5	9262	1852.4	22.95	0	24.00	13.38	0	13.50
		9400	1880.0	23.57			13.42		
		9538	1907.6	23.27			13.41		
DC-HSDPA	Subtest 1	9262	1852.4	23.00	0	24.00	13.25	0	13.50
		9400	1880.0	23.42			13.33		
		9538	1907.6	22.77			13.38		
	Subtest 2	9262	1852.4	22.65	0	24.00	13.19	0	13.50
		9400	1880.0	22.89			13.34		
		9538	1907.6	22.30			13.37		
	Subtest 3	9262	1852.4	21.83	0.5	23.50	13.20	0.0	13.50
		9400	1880.0	22.19			13.32		
		9538	1907.6	21.71			13.36		
	Subtest 4	9262	1852.4	21.99	0.5	23.50	13.21	0.0	13.50
		9400	1880.0	22.20			13.36		
		9538	1907.6	21.79			13.40		

W-CDMA Band IV Measured Results

Mode		UL Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)					
				DSI = 0			DSI = 1		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	23.61	N/A	25.00	12.69	N/A	13.50
		1413	1732.6	23.76			12.92		
		1513	1752.6	23.57			12.74		
HSDPA	Subtest 1	1312	1712.4	23.05	0	24.50	12.69	0	13.00
		1413	1732.6	23.15			12.86		
		1513	1752.6	23.14			12.73		
	Subtest 2	1312	1712.4	22.71	1	24.00	12.70	0	13.00
		1413	1732.6	22.73			12.88		
		1513	1752.6	22.77			12.74		
	Subtest 3	1312	1712.4	22.28	0.5	24.00	12.67	0.0	13.00
		1413	1732.6	22.43			12.86		
		1513	1752.6	22.55			12.72		
	Subtest 4	1312	1712.4	22.33	0.5	24.00	12.67	0.0	13.00
		1413	1732.6	22.46			12.88		
		1513	1752.6	22.57			12.74		
HSUPA	Subtest 1	1312	1712.4	22.30	0	24.00	11.65	0	13.00
		1413	1732.6	22.27			11.82		
		1513	1752.6	22.31			11.67		
	Subtest 2	1312	1712.4	22.35	0	24.00	11.64	0	13.00
		1413	1732.6	22.89			11.80		
		1513	1752.6	22.74			11.67		
	Subtest 3	1312	1712.4	22.20	0	24.00	11.62	0	13.00
		1413	1732.6	22.19			11.82		
		1513	1752.6	22.24			11.67		
	Subtest 4	1312	1712.4	20.05	2	22.00	11.63	0	13.00
		1413	1732.6	20.02			11.80		
		1513	1752.6	20.12			11.65		
	Subtest 5	1312	1712.4	23.51	0	24.00	12.75	0	13.00
		1413	1732.6	23.47			12.94		
		1513	1752.6	23.57			12.81		
DC-HSDPA	Subtest 1	1312	1712.4	23.27	0	24.50	12.65	0	13.00
		1413	1732.6	23.50			12.84		
		1513	1752.6	23.66			12.81		
	Subtest 2	1312	1712.4	22.75	1	24.00	12.64	0	13.00
		1413	1732.6	22.99			12.85		
		1513	1752.6	23.21			12.80		
	Subtest 3	1312	1712.4	21.77	1.0	23.50	12.63	0.0	13.00
		1413	1732.6	21.93			12.87		
		1513	1752.6	22.11			12.80		
	Subtest 4	1312	1712.4	22.24	1.0	23.50	12.63	0.0	13.00
		1413	1732.6	22.39			12.82		
		1513	1752.6	22.57			12.80		

W-CDMA Band V Measured Results

Mode		UL Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)					
				DSI = 0			DSI = 1		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	4132	826.4	24.26	N/A	24.50	16.61	N/A	17.50
		4183	836.6	23.95			16.32		
		4233	846.6	24.06			16.33		
HSDPA	Subtest 1	4132	826.4	23.63	0	24.00	16.56	0	17.00
		4183	836.6	23.54			16.30		
		4233	846.6	23.66			16.32		
	Subtest 2	4132	826.4	23.25	0	24.00	16.57	0	17.00
		4183	836.6	23.11			16.30		
		4233	846.6	23.20			16.31		
	Subtest 3	4132	826.4	22.75	0.5	23.50	16.41	0.5	16.50
		4183	836.6	22.62			16.30		
		4233	846.6	22.73			16.33		
	Subtest 4	4132	826.4	22.21	0.5	23.50	16.34	0.5	16.50
		4183	836.6	22.07			16.29		
		4233	846.6	22.20			16.32		
HSUPA	Subtest 1	4132	826.4	22.75	0	24.00	15.51	0	17.00
		4183	836.6	22.52			15.22		
		4233	846.6	22.62			15.23		
	Subtest 2	4132	826.4	20.61	2	22.00	15.47	1	16.00
		4183	836.6	20.41			15.20		
		4233	846.6	20.50			15.20		
	Subtest 3	4132	826.4	21.62	1	23.00	15.48	1	16.00
		4183	836.6	21.43			15.20		
		4233	846.6	21.52			15.21		
	Subtest 4	4132	826.4	20.61	2	22.00	15.49	1	16.00
		4183	836.6	20.41			15.22		
		4233	846.6	20.51			15.21		
	Subtest 5	4132	826.4	23.79	0	24.00	16.71	0	17.00
		4183	836.6	23.59			16.39		
		4233	846.6	23.68			16.39		
DC-HSDPA	Subtest 1	4132	826.4	23.79	0	24.00	16.59	0	17.00
		4183	836.6	23.64			16.21		
		4233	846.6	23.56			16.09		
	Subtest 2	4132	826.4	23.25	0	24.00	16.55	0	17.00
		4183	836.6	23.19			16.18		
		4233	846.6	23.12			16.13		
	Subtest 3	4132	826.4	21.69	0.5	23.50	16.34	0.5	16.50
		4183	836.6	21.63			16.21		
		4233	846.6	21.55			16.11		
	Subtest 4	4132	826.4	22.21	0.5	23.50	16.41	0.5	16.50
		4183	836.6	22.19			16.19		
		4233	846.6	22.10			16.11		

9.2. LTE

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

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

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of “NS_01”.

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (subclause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	N/A

Maximum Output Power (Tune-up Limit) for LTE

According to April 2015 TCB workshop, SAR test exclusion can be applied for testing overlapping LTE bands as follows:

a) The maximum output power, including tolerance, for the smaller band must be ≤ the larger band to qualify for the SAR test exclusion.
b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.

- LTE Band 2 (1850 – 1910 MHz) is covered by LTE Band 25 (1850 – 1915 MHz)
- LTE Band 4 (1710 – 1755 MHz) is covered by LTE Band 66 (1710 – 1780 MHz)
- LTE Band 5 (824 – 849 MHz) is covered by LTE Band 26 (814 – 849 MHz)

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 per KDB 941225 D05 SAR for LTE Devices.

LTE QPSK configuration has the highest maximum average output power per 3GPP standard.

SAR measurement is not required for Higher order modulations. When the highest maximum output power for Higher order modulations are ≤ 0.5 dB higher than the QPSK or when the reported SAR for QPSK configuration is ≤ 1.45 W/kg.

LTE Band 7 (Main.1) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)									
				DSI = 0					DSI = 1				
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				20850	21100	21350			20850	21100	21350		
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz		
20 MHz	QPSK	1	0	24.47	24.54	24.71	0.0	25.0	12.12	12.23	12.44	0.0	13.0
		1	49	24.57	24.44	24.49	0.0	25.0	12.33	12.02	12.43	0.0	13.0
		1	99	24.68	24.49	24.70	0.0	25.0	12.29	12.12	12.34	0.0	13.0
		50	0	23.56	23.60	23.72	1.0	24.0	12.21	12.25	12.38	0.0	13.0
		50	24	23.59	23.58	23.70	1.0	24.0	12.28	12.22	12.37	0.0	13.0
		50	50	23.62	23.56	23.68	1.0	24.0	12.30	12.18	12.36	0.0	13.0
		100	0	23.59	23.59	23.71	1.0	24.0	12.26	12.21	12.37	0.0	13.0
	16QAM	1	0	23.73	23.62	23.88	1.0	24.0	12.46	12.67	12.75	0.0	13.0
		1	49	23.87	23.66	24.00	1.0	24.0	12.47	12.64	12.68	0.0	13.0
		1	99	23.84	23.99	24.00	1.0	24.0	12.62	12.52	12.70	0.0	13.0
		50	0	22.48	22.58	22.68	2.0	23.0	12.25	12.24	12.38	0.0	13.0
		50	24	22.51	22.53	22.62	2.0	23.0	12.30	12.21	12.35	0.0	13.0
		50	50	22.52	22.50	22.60	2.0	23.0	12.31	12.17	12.34	0.0	13.0
		100	0	22.50	22.53	22.62	2.0	23.0	12.30	12.21	12.39	0.0	13.0
	64QAM	1	0	22.46	22.49	22.70	2.0	23.0	12.30	12.49	12.63	0.0	13.0
		1	49	22.54	22.45	22.68	2.0	23.0	12.46	12.62	12.65	0.0	13.0
		1	99	22.56	22.39	22.65	2.0	23.0	12.45	12.35	12.61	0.0	13.0
		50	0	21.49	21.56	21.64	3.0	22.0	12.29	12.25	12.41	0.0	13.0
		50	24	21.52	21.54	21.59	3.0	22.0	12.35	12.25	12.41	0.0	13.0
		50	50	21.55	21.51	21.58	3.0	22.0	12.36	12.21	12.38	0.0	13.0
		100	0	21.47	21.50	21.58	3.0	22.0	12.31	12.21	12.41	0.0	13.0
	256QAM	1	0	19.37	19.59	19.62	5.0	20.0	12.28	12.39	12.67	0.0	13.0
		1	49	19.32	19.40	19.41	5.0	20.0	12.53	12.42	12.72	0.0	13.0
		1	99	19.48	19.47	19.52	5.0	20.0	12.45	12.27	12.62	0.0	13.0
		50	0	19.40	19.48	19.55	5.0	20.0	12.27	12.24	12.39	0.0	13.0
		50	24	19.43	19.47	19.51	5.0	20.0	12.31	12.23	12.37	0.0	13.0
		50	50	19.45	19.45	19.49	5.0	20.0	12.34	12.18	12.34	0.0	13.0
		100	0	19.42	19.47	19.52	5.0	20.0	12.31	12.22	12.36	0.0	13.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				20825	21100	21375			20825	21100	21375		
				2507.5 MHz	2535 MHz	2562.5 MHz			2507.5 MHz	2535 MHz	2562.5 MHz		
15 MHz	QPSK	1	0	23.79	24.21	24.34	0.0	25.0	12.16	12.16	12.29	0.0	13.0
		1	37	24.48	24.30	24.47	0.0	25.0	12.10	11.98	12.22	0.0	13.0
		1	74	24.45	24.16	23.73	0.0	25.0	12.27	12.09	12.23	0.0	13.0
		36	0	23.46	23.33	23.41	1.0	24.0	12.24	12.20	12.28	0.0	13.0
		36	20	23.49	23.31	23.41	1.0	24.0	12.28	12.18	12.28	0.0	13.0
		36	39	23.53	23.29	23.44	1.0	24.0	12.34	12.17	12.30	0.0	13.0
		75	0	23.51	23.33	23.43	1.0	24.0	12.31	12.18	12.28	0.0	13.0
	16QAM	1	0	23.31	23.57	23.60	1.0	24.0	12.45	12.58	12.63	0.0	13.0
		1	37	23.74	23.62	23.59	1.0	24.0	12.45	12.47	12.56	0.0	13.0
		1	74	23.64	23.44	23.30	1.0	24.0	12.56	12.45	12.59	0.0	13.0
		36	0	22.37	22.27	22.39	2.0	23.0	12.27	12.23	12.33	0.0	13.0
		36	20	22.38	22.24	22.35	2.0	23.0	12.31	12.21	12.33	0.0	13.0
		36	39	22.41	22.21	22.34	2.0	23.0	12.33	12.20	12.31	0.0	13.0
		75	0	22.37	22.20	22.31	2.0	23.0	12.29	12.17	12.28	0.0	13.0
	64QAM	1	0	22.24	22.25	22.21	2.0	23.0	12.50	12.32	12.37	0.0	13.0
		1	37	21.93	22.30	22.34	2.0	23.0	12.46	12.04	12.26	0.0	13.0
		1	74	22.29	22.19	22.35	2.0	23.0	12.67	12.17	12.30	0.0	13.0
		36	0	21.15	21.14	21.25	3.0	22.0	12.26	12.30	12.35	0.0	13.0
		36	20	21.14	21.11	21.30	3.0	22.0	12.32	12.27	12.33	0.0	13.0
		36	39	21.13	21.11	21.31	3.0	22.0	12.34	12.24	12.34	0.0	13.0
		75	0	21.15	21.07	21.22	3.0	22.0	12.35	12.20	12.29	0.0	13.0
	256QAM	1	0	19.13	19.24	19.15	5.0	20.0	12.31	12.57	12.39	0.0	13.0
		1	37	19.06	18.97	19.24	5.0	20.0	12.32	12.29	12.30	0.0	13.0
		1	74	19.06	19.17	19.25	5.0	20.0	12.44	12.49	12.33	0.0	13.0
		36	0	19.08	19.05	19.11	5.0	20.0	12.28	12.29	12.28	0.0	13.0
		36	20	19.05	19.04	19.13	5.0	20.0	12.31	12.27	12.26	0.0	13.0
		36	39	19.05	19.00	19.16	5.0	20.0	12.34	12.22	12.27	0.0	13.0
		75	0	19.07	19.02	19.12	5.0	20.0	12.33	12.23	12.27	0.0	13.0

LTE Band 7 (Main.1) Measured Results_(Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				20800	21100	21400			20800	21100	21400		
				2505 MHz	2535 MHz	2565 MHz			2505 MHz	2535 MHz	2565 MHz		
10 MHz	QPSK	1	0	24.18	24.23	24.23	0.0	25.0	12.20	12.21	12.20	0.0	13.0
		1	25	24.27	24.34	24.27	0.0	25.0	12.22	12.21	12.10	0.0	13.0
		1	49	24.37	24.18	24.53	0.0	25.0	12.36	12.11	12.23	0.0	13.0
		25	0	23.24	23.18	23.24	1.0	24.0	12.28	12.17	12.20	0.0	13.0
		25	12	23.28	23.18	23.23	1.0	24.0	12.30	12.17	12.21	0.0	13.0
		25	25	23.28	23.13	23.23	1.0	24.0	12.30	12.14	12.20	0.0	13.0
		50	0	23.28	23.16	23.22	1.0	24.0	12.30	12.18	12.20	0.0	13.0
	16QAM	1	0	23.40	23.44	23.51	1.0	24.0	12.47	12.46	12.62	0.0	13.0
		1	25	23.57	23.55	23.50	1.0	24.0	12.62	12.52	12.63	0.0	13.0
		1	49	23.45	23.22	23.34	1.0	24.0	12.52	12.42	12.59	0.0	13.0
		25	0	22.28	22.16	22.14	2.0	23.0	12.28	12.23	12.21	0.0	13.0
		25	12	22.30	22.14	22.11	2.0	23.0	12.32	12.23	12.20	0.0	13.0
		25	25	22.29	22.12	22.13	2.0	23.0	12.33	12.21	12.21	0.0	13.0
		50	0	22.24	22.14	22.16	2.0	23.0	12.31	12.18	12.22	0.0	13.0
	64QAM	1	0	22.17	22.04	22.32	2.0	23.0	12.34	12.36	12.23	0.0	13.0
		1	25	22.18	22.13	22.57	2.0	23.0	12.43	12.36	12.30	0.0	13.0
		1	49	22.24	22.06	22.42	2.0	23.0	12.39	12.35	12.29	0.0	13.0
		25	0	21.05	21.09	21.20	3.0	22.0	12.35	12.23	12.23	0.0	13.0
		25	12	21.03	21.08	21.21	3.0	22.0	12.37	12.20	12.25	0.0	13.0
		25	25	21.04	21.04	21.23	3.0	22.0	12.40	12.20	12.23	0.0	13.0
		50	0	21.03	21.04	21.18	3.0	22.0	12.36	12.19	12.26	0.0	13.0
	256QAM	1	0	19.47	19.16	19.14	5.0	20.0	12.31	12.45	12.19	0.0	13.0
		1	25	19.57	19.22	19.22	5.0	20.0	12.46	12.40	12.08	0.0	13.0
		1	49	19.46	19.02	19.20	5.0	20.0	12.39	12.42	12.14	0.0	13.0
		25	0	19.03	19.02	19.18	5.0	20.0	12.38	12.25	12.25	0.0	13.0
		25	12	19.02	19.00	19.20	5.0	20.0	12.42	12.24	12.25	0.0	13.0
		25	25	19.00	18.96	19.20	5.0	20.0	12.41	12.21	12.23	0.0	13.0
		50	0	19.00	18.97	19.11	5.0	20.0	12.35	12.21	12.21	0.0	13.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				20775	21100	21425			20775	21100	21425		
				2502.5 MHz	2535 MHz	2567.5 MHz			2502.5 MHz	2535 MHz	2567.5 MHz		
5 MHz	QPSK	1	0	24.16	24.22	24.19	0.0	25.0	12.15	12.09	12.11	0.0	13.0
		1	12	24.23	24.35	24.26	0.0	25.0	12.15	11.92	12.10	0.0	13.0
		1	24	24.32	24.25	23.82	0.0	25.0	12.25	12.15	12.17	0.0	13.0
		12	0	23.25	23.24	23.22	1.0	24.0	12.24	12.17	12.20	0.0	13.0
		12	7	23.25	23.24	23.23	1.0	24.0	12.25	12.15	12.20	0.0	13.0
		12	13	23.29	23.21	23.24	1.0	24.0	12.30	12.15	12.19	0.0	13.0
		25	0	23.29	23.23	23.22	1.0	24.0	12.29	12.17	12.22	0.0	13.0
	16QAM	1	0	23.56	23.52	23.36	1.0	24.0	12.52	12.68	12.43	0.0	13.0
		1	12	23.57	23.61	23.46	1.0	24.0	12.42	12.36	12.37	0.0	13.0
		1	24	23.60	23.46	23.30	1.0	24.0	12.55	12.61	12.49	0.0	13.0
		12	0	22.30	22.25	22.15	2.0	23.0	12.33	12.32	12.22	0.0	13.0
		12	7	22.29	22.19	22.14	2.0	23.0	12.35	12.32	12.21	0.0	13.0
		12	13	22.30	22.21	22.12	2.0	23.0	12.40	12.31	12.21	0.0	13.0
		25	0	22.21	22.14	22.14	2.0	23.0	12.32	12.20	12.22	0.0	13.0
	64QAM	1	0	22.79	22.89	22.07	2.0	23.0	12.35	12.45	12.44	0.0	13.0
		1	12	22.25	22.22	22.13	2.0	23.0	12.40	12.26	12.39	0.0	13.0
		1	24	22.33	22.24	22.19	2.0	23.0	12.49	12.36	12.48	0.0	13.0
		12	0	21.98	21.87	21.00	3.0	22.0	12.25	12.19	12.23	0.0	13.0
		12	7	21.97	21.81	21.02	3.0	22.0	12.26	12.18	12.22	0.0	13.0
		12	13	21.81	21.92	21.01	3.0	22.0	12.28	12.16	12.23	0.0	13.0
		25	0	21.07	21.07	21.00	3.0	22.0	12.30	12.19	12.23	0.0	13.0
	256QAM	1	0	18.93	19.04	18.91	5.0	20.0	12.24	12.46	12.13	0.0	13.0
		1	12	18.96	19.06	18.86	5.0	20.0	12.16	12.39	12.11	0.0	13.0
		1	24	19.04	19.05	18.90	5.0	20.0	12.30	12.46	12.18	0.0	13.0
		12	0	18.96	19.10	18.96	5.0	20.0	12.28	12.26	12.27	0.0	13.0
		12	7	18.98	19.07	18.98	5.0	20.0	12.30	12.26	12.27	0.0	13.0
		12	13	19.00	19.07	18.95	5.0	20.0	12.30	12.23	12.28	0.0	13.0
		25	0	18.95	18.99	18.96	5.0	20.0	12.31	12.18	12.23	0.0	13.0

LTE Band 7 (Sub.2) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)									
				DSI = 0					DSI = 1				
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				20850	21100	21350			20850	21100	21350		
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz		
20 MHz	QPSK	1	0	23.50	23.30	23.13	0.0	24.0	10.00	9.63	9.27	0.0	10.5
		1	49	23.07	23.40	22.64	0.0	24.0	9.94	9.51	9.20	0.0	10.5
		1	99	22.93	23.28	23.11	0.0	24.0	9.90	9.62	9.31	0.0	10.5
		50	0	22.52	22.30	22.17	1.0	23.0	9.99	9.64	9.27	0.0	10.5
		50	24	22.49	22.32	22.16	1.0	23.0	9.89	9.64	9.29	0.0	10.5
		50	50	22.47	22.30	22.16	1.0	23.0	9.96	9.62	9.29	0.0	10.5
		100	0	22.49	22.31	22.17	1.0	23.0	9.97	9.65	9.28	0.0	10.5
	16QAM	1	0	22.69	22.63	22.43	1.0	23.0	10.34	9.91	9.67	0.0	10.5
		1	49	22.86	22.67	22.50	1.0	23.0	10.37	9.88	9.76	0.0	10.5
		1	99	22.66	22.55	22.36	1.0	23.0	10.33	9.85	9.67	0.0	10.5
		50	0	21.47	21.34	21.22	2.0	22.0	9.99	9.63	9.29	0.0	10.5
		50	24	21.45	21.32	21.21	2.0	22.0	10.00	9.61	9.31	0.0	10.5
		50	50	21.45	21.29	21.18	2.0	22.0	9.98	9.58	9.30	0.0	10.5
		100	0	21.47	21.35	21.22	2.0	22.0	10.00	9.65	9.31	0.0	10.5
	64QAM	1	0	21.47	21.52	21.46	2.0	22.0	10.45	9.82	9.70	0.0	10.5
		1	49	21.48	21.46	21.45	2.0	22.0	10.43	9.77	9.70	0.0	10.5
		1	99	21.50	21.43	21.41	2.0	22.0	10.49	9.80	9.76	0.0	10.5
		50	0	20.47	20.38	20.27	3.0	21.0	10.05	9.65	9.37	0.0	10.5
		50	24	20.47	20.36	20.26	3.0	21.0	10.06	9.63	9.39	0.0	10.5
		50	50	20.47	20.35	20.28	3.0	21.0	10.05	9.61	9.37	0.0	10.5
		100	0	20.44	20.33	20.25	3.0	21.0	10.03	9.63	9.38	0.0	10.5
	256QAM	1	0	18.67	18.47	18.30	5.0	19.0	10.34	9.86	9.43	0.0	10.5
		1	49	18.69	18.49	18.48	5.0	19.0	10.27	9.80	9.49	0.0	10.5
		1	99	18.63	18.40	18.32	5.0	19.0	10.30	9.82	9.46	0.0	10.5
		50	0	18.45	18.36	18.26	5.0	19.0	10.03	9.63	9.31	0.0	10.5
		50	24	18.45	18.35	18.25	5.0	19.0	10.02	9.61	9.33	0.0	10.5
		50	50	18.42	18.34	18.26	5.0	19.0	10.03	9.60	9.32	0.0	10.5
		100	0	18.42	18.36	18.27	5.0	19.0	9.98	9.60	9.30	0.0	10.5
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				20825	21100	21375			20825	21100	21375		
				2507.5 MHz	2535 MHz	2562.5 MHz			2507.5 MHz	2535 MHz	2562.5 MHz		
15 MHz	QPSK	1	0	23.41	22.98	22.43	0.0	24.0	9.86	9.44	9.21	0.0	10.5
		1	37	23.23	22.95	22.72	0.0	24.0	9.64	9.34	9.15	0.0	10.5
		1	74	23.33	22.99	22.69	0.0	24.0	9.77	9.44	9.17	0.0	10.5
		36	0	22.47	22.06	21.79	1.0	23.0	9.86	9.47	9.20	0.0	10.5
		36	20	22.43	22.05	21.77	1.0	23.0	9.85	9.47	9.19	0.0	10.5
		36	39	22.42	22.05	21.77	1.0	23.0	9.83	9.46	9.18	0.0	10.5
		75	0	22.46	22.07	21.78	1.0	23.0	9.85	9.46	9.18	0.0	10.5
	16QAM	1	0	22.51	22.19	21.99	1.0	23.0	10.09	9.81	9.59	0.0	10.5
		1	37	22.45	22.15	21.99	1.0	23.0	9.95	9.77	9.57	0.0	10.5
		1	74	22.51	22.15	22.00	1.0	23.0	10.03	9.75	9.62	0.0	10.5
		36	0	21.44	21.06	20.80	2.0	22.0	9.88	9.50	9.22	0.0	10.5
		36	20	21.41	21.06	20.79	2.0	22.0	9.85	9.48	9.21	0.0	10.5
		36	39	21.39	21.06	20.79	2.0	22.0	9.85	9.48	9.23	0.0	10.5
		75	0	21.42	21.05	20.79	2.0	22.0	9.86	9.47	9.21	0.0	10.5
	64QAM	1	0	21.64	21.38	21.02	2.0	22.0	9.91	9.65	9.28	0.0	10.5
		1	37	21.74	21.38	20.63	2.0	22.0	9.73	9.53	9.09	0.0	10.5
		1	74	21.64	21.32	21.03	2.0	22.0	9.83	9.59	9.31	0.0	10.5
		36	0	20.70	20.27	19.97	3.0	21.0	9.92	9.53	9.20	0.0	10.5
		36	20	20.71	20.28	19.98	3.0	21.0	9.91	9.53	9.20	0.0	10.5
		36	39	20.70	20.27	19.96	3.0	21.0	9.89	9.51	9.21	0.0	10.5
		75	0	20.64	20.27	19.99	3.0	21.0	9.86	9.49	9.20	0.0	10.5
	256QAM	1	0	18.63	18.49	18.05	5.0	19.0	9.81	9.88	9.36	0.0	10.5
		1	37	18.69	18.47	18.19	5.0	19.0	9.76	9.79	9.27	0.0	10.5
		1	74	18.67	18.46	18.05	5.0	19.0	9.81	9.86	9.35	0.0	10.5
		36	0	18.63	18.31	17.97	5.0	19.0	9.84	9.52	9.21	0.0	10.5
		36	20	18.60	18.33	17.97	5.0	19.0	9.82	9.52	9.19	0.0	10.5
		36	39	18.58	18.30	17.95	5.0	19.0	9.81	9.51	9.19	0.0	10.5
		75	0	18.64	18.31	17.99	5.0	19.0	9.84	9.51	9.20	0.0	10.5

LTE Band 7 (Sub.2) Measured Results_(Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				20800	21100	21400			20800	21100	21400		
				2505 MHz	2535 MHz	2565 MHz			2505 MHz	2535 MHz	2565 MHz		
10 MHz	QPSK	1	0	23.37	23.02	22.24	0.0	24.0	9.80	9.46	9.16	0.0	10.5
		1	25	23.37	23.10	22.53	0.0	24.0	9.78	9.55	9.03	0.0	10.5
		1	49	23.36	22.99	22.73	0.0	24.0	9.78	9.41	9.19	0.0	10.5
		25	0	22.36	21.99	21.75	1.0	23.0	9.84	9.46	9.21	0.0	10.5
		25	12	22.34	21.99	21.73	1.0	23.0	9.82	9.43	9.20	0.0	10.5
		25	25	22.33	21.98	21.73	1.0	23.0	9.81	9.45	9.19	0.0	10.5
		50	0	22.36	22.00	21.74	1.0	23.0	9.83	9.45	9.20	0.0	10.5
	16QAM	1	0	22.40	22.18	22.02	1.0	23.0	10.17	9.66	9.75	0.0	10.5
		1	25	22.49	22.21	21.91	1.0	23.0	10.23	9.74	9.75	0.0	10.5
		1	49	22.35	22.20	21.96	1.0	23.0	10.08	9.65	9.71	0.0	10.5
		25	0	21.33	21.02	20.82	2.0	22.0	9.87	9.46	9.30	0.0	10.5
		25	12	21.33	21.00	20.81	2.0	22.0	9.87	9.44	9.30	0.0	10.5
		25	25	21.34	21.00	20.81	2.0	22.0	9.87	9.45	9.30	0.0	10.5
		50	0	21.35	20.99	20.76	2.0	22.0	9.86	9.46	9.23	0.0	10.5
	64QAM	1	0	21.55	21.49	21.17	2.0	22.0	10.12	9.38	9.41	0.0	10.5
		1	25	21.40	21.46	21.34	2.0	22.0	10.08	9.47	9.51	0.0	10.5
		1	49	21.61	21.50	21.09	2.0	22.0	10.02	9.41	9.44	0.0	10.5
		25	0	20.56	20.21	20.02	3.0	21.0	9.89	9.47	9.25	0.0	10.5
		25	12	20.58	20.19	20.01	3.0	21.0	9.85	9.46	9.24	0.0	10.5
		25	25	20.56	20.20	19.99	3.0	21.0	9.86	9.45	9.24	0.0	10.5
		50	0	20.57	20.22	19.99	3.0	21.0	9.83	9.48	9.24	0.0	10.5
	256QAM	1	0	18.53	18.48	18.01	5.0	19.0	9.90	9.46	9.59	0.0	10.5
		1	25	18.76	18.68	18.23	5.0	19.0	9.83	9.48	9.59	0.0	10.5
		1	49	18.57	18.41	18.06	5.0	19.0	9.92	9.46	9.54	0.0	10.5
		25	0	18.59	18.29	18.10	5.0	19.0	9.93	9.49	9.30	0.0	10.5
		25	12	18.61	18.27	18.09	5.0	19.0	9.92	9.46	9.28	0.0	10.5
		25	25	18.58	18.27	18.07	5.0	19.0	9.90	9.46	9.27	0.0	10.5
		50	0	18.58	18.26	18.02	5.0	19.0	9.84	9.46	9.25	0.0	10.5

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				20775	21100	21425			20775	21100	21425		
				2502.5 MHz	2535 MHz	2567.5 MHz			2502.5 MHz	2535 MHz	2567.5 MHz		
5 MHz	QPSK	1	0	23.33	22.88	22.69	0.0	24.0	9.73	9.36	9.13	0.0	10.5
		1	12	23.30	22.75	22.69	0.0	24.0	9.70	9.19	9.11	0.0	10.5
		1	24	23.34	22.93	22.71	0.0	24.0	9.76	9.40	9.16	0.0	10.5
		12	0	22.29	21.94	21.74	1.0	23.0	9.77	9.43	9.21	0.0	10.5
		12	7	22.28	21.94	21.74	1.0	23.0	9.75	9.43	9.20	0.0	10.5
		12	13	22.28	21.94	21.72	1.0	23.0	9.77	9.42	9.19	0.0	10.5
		25	0	22.28	21.95	21.72	1.0	23.0	9.77	9.44	9.21	0.0	10.5
	16QAM	1	0	22.52	22.44	21.93	1.0	23.0	10.06	9.89	9.44	0.0	10.5
		1	12	22.44	22.18	21.91	1.0	23.0	9.96	9.64	9.39	0.0	10.5
		1	24	22.49	22.42	21.95	1.0	23.0	10.02	9.84	9.48	0.0	10.5
		12	0	21.31	21.05	20.74	2.0	22.0	9.81	9.54	9.30	0.0	10.5
		12	7	21.31	21.06	20.75	2.0	22.0	9.80	9.53	9.30	0.0	10.5
		12	13	21.30	21.04	20.71	2.0	22.0	9.82	9.53	9.29	0.0	10.5
		25	0	21.25	21.01	20.77	2.0	22.0	9.80	9.48	9.27	0.0	10.5
	64QAM	1	0	21.74	21.43	21.12	2.0	22.0	9.99	9.67	9.28	0.0	10.5
		1	12	21.82	21.38	21.32	2.0	22.0	9.93	9.56	9.30	0.0	10.5
		1	24	21.80	21.37	21.15	2.0	22.0	10.03	9.59	9.32	0.0	10.5
		12	0	20.51	20.23	20.04	3.0	21.0	9.83	9.48	9.28	0.0	10.5
		12	7	20.50	20.22	20.05	3.0	21.0	9.81	9.49	9.28	0.0	10.5
		12	13	20.51	20.23	20.01	3.0	21.0	9.82	9.46	9.26	0.0	10.5
		25	0	20.56	20.24	20.04	3.0	21.0	9.81	9.44	9.25	0.0	10.5
	256QAM	1	0	18.51	18.40	18.00	5.0	19.0	9.61	9.77	9.19	0.0	10.5
		1	12	18.58	18.49	17.95	5.0	19.0	9.52	9.64	8.90	0.0	10.5
		1	24	18.48	18.39	17.99	5.0	19.0	9.59	9.73	9.21	0.0	10.5
		12	0	18.56	18.29	18.03	5.0	19.0	9.79	9.51	9.28	0.0	10.5
		12	7	18.56	18.27	18.04	5.0	19.0	9.78	9.51	9.27	0.0	10.5
		12	13	18.56	18.25	18.01	5.0	19.0	9.78	9.48	9.24	0.0	10.5
		25	0	18.56	18.21	18.02	5.0	19.0	9.82	9.44	9.26	0.0	10.5

LTE Band 12 Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)									
				DSI = 0					DSI = 1				
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				23060	23095	23130			23060	23095	23130		
				704 MHz	707.5 MHz	711 MHz			704 MHz	707.5 MHz	711 MHz		
10 MHz	QPSK	1	0		23.56		0.0	25.0		16.15		0.0	16.5
		1	25		23.45		0.0	25.0		15.97		0.0	16.5
		1	49		23.45		0.0	25.0		15.91		0.0	16.5
		25	0		22.55		1.0	24.0		15.95		0.0	16.5
		25	12		22.50		1.0	24.0		15.91		0.0	16.5
		25	25		22.45		1.0	24.0		15.85		0.0	16.5
		50	0		22.51		1.0	24.0		15.91		0.0	16.5
	16QAM	1	0		22.84		1.0	24.0		15.91		0.0	16.5
		1	25		22.81		1.0	24.0		15.92		0.0	16.5
		1	49		22.56		1.0	24.0		15.73		0.0	16.5
		25	0		21.58		2.0	23.0		15.94		0.0	16.5
		25	12		21.54		2.0	23.0		15.89		0.0	16.5
		25	25		21.48		2.0	23.0		15.84		0.0	16.5
		50	0		21.55		2.0	23.0		15.86		0.0	16.5
	64QAM	1	0		21.78		2.0	23.0		15.95		0.0	16.5
		1	25		21.79		2.0	23.0		15.90		0.0	16.5
		1	49		21.67		2.0	23.0		15.84		0.0	16.5
		25	0		20.55		3.0	22.0		15.94		0.0	16.5
		25	12		20.46		3.0	22.0		15.90		0.0	16.5
		25	25		20.43		3.0	22.0		15.84		0.0	16.5
		50	0		20.50		3.0	22.0		15.90		0.0	16.5
	256QAM	1	0		18.89		5.0	20.0		16.30		0.0	16.5
		1	25		18.81		5.0	20.0		16.32		0.0	16.5
		1	49		18.71		5.0	20.0		16.05		0.0	16.5
		25	0		18.57		5.0	20.0		16.01		0.0	16.5
		25	12		18.52		5.0	20.0		15.97		0.0	16.5
		25	25		18.47		5.0	20.0		15.92		0.0	16.5
		50	0		18.47		5.0	20.0		15.94		0.0	16.5
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				23035	23095	23155			23035	23095	23155		
				701.5 MHz	707.5 MHz	713.5 MHz			701.5 MHz	707.5 MHz	713.5 MHz		
5 MHz	QPSK	1	0	23.89	23.76	23.68	0.0	25.0	16.00	15.84	15.79	0.0	16.5
		1	12	23.78	23.55	23.59	0.0	25.0	15.95	15.63	15.72	0.0	16.5
		1	24	23.88	23.73	23.68	0.0	25.0	15.95	15.82	15.74	0.0	16.5
		12	0	22.92	22.79	22.74	1.0	24.0	15.99	15.90	15.83	0.0	16.5
		12	7	22.90	22.78	22.73	1.0	24.0	15.96	15.89	15.82	0.0	16.5
		12	13	22.90	22.75	22.69	1.0	24.0	15.96	15.89	15.77	0.0	16.5
		25	0	22.92	22.79	22.73	1.0	24.0	15.99	15.90	15.84	0.0	16.5
	16QAM	1	0	23.07	23.25	23.02	1.0	24.0	16.26	16.29	16.21	0.0	16.5
		1	12	22.97	22.93	22.89	1.0	24.0	16.07	15.87	16.05	0.0	16.5
		1	24	23.03	23.09	23.07	1.0	24.0	16.18	16.12	16.19	0.0	16.5
		12	0	21.95	21.92	21.71	2.0	23.0	16.00	16.05	15.91	0.0	16.5
		12	7	21.92	21.90	21.67	2.0	23.0	15.98	16.04	15.87	0.0	16.5
		12	13	21.93	21.87	21.66	2.0	23.0	16.00	16.02	15.86	0.0	16.5
		25	0	21.90	21.79	21.71	2.0	23.0	16.02	15.95	15.86	0.0	16.5
	64QAM	1	0	21.84	22.12	21.65	2.0	23.0	16.03	16.39	16.16	0.0	16.5
		1	12	21.86	21.97	21.61	2.0	23.0	15.96	16.22	16.13	0.0	16.5
		1	24	21.92	21.99	21.67	2.0	23.0	16.01	16.25	16.19	0.0	16.5
		12	0	20.80	20.73	20.64	3.0	22.0	15.80	15.89	16.07	0.0	16.5
		12	7	20.77	20.70	20.58	3.0	22.0	15.78	15.87	16.05	0.0	16.5
		12	13	20.78	20.68	20.60	3.0	22.0	15.75	15.86	16.06	0.0	16.5
		25	0	20.80	20.71	20.62	3.0	22.0	15.82	15.92	15.97	0.0	16.5
	256QAM	1	0	18.61	19.00	18.58	5.0	20.0	15.91	16.13	15.89	0.0	16.5
		1	12	18.57	18.85	18.35	5.0	20.0	15.71	15.95	15.84	0.0	16.5
		1	24	18.59	18.93	18.48	5.0	20.0	15.88	16.06	15.89	0.0	16.5
		12	0	18.85	18.77	18.66	5.0	20.0	15.81	15.93	15.95	0.0	16.5
		12	7	18.85	18.76	18.64	5.0	20.0	15.79	15.91	15.93	0.0	16.5
		12	13	18.85	18.70	18.63	5.0	20.0	15.76	15.87	15.94	0.0	16.5
		25	0	18.81	18.67	18.64	5.0	20.0	15.80	15.81	15.98	0.0	16.5

LTE Band 12 Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				23025	23095	23165			23025	23095	23165		
				700.5 MHz	707.5 MHz	714.5 MHz			700.5 MHz	707.5 MHz	714.5 MHz		
3 MHz	QPSK	1	0	23.99	23.73	23.80	0.0	25.0	16.13	15.84	15.89	0.0	16.5
		1	8	23.76	23.62	23.73	0.0	25.0	15.90	15.66	15.81	0.0	16.5
		1	14	24.02	23.69	23.79	0.0	25.0	16.12	15.76	15.87	0.0	16.5
		8	0	22.96	22.76	22.80	1.0	24.0	16.04	15.83	15.84	0.0	16.5
		8	4	22.92	22.79	22.79	1.0	24.0	16.01	15.86	15.81	0.0	16.5
		8	7	22.92	22.76	22.72	1.0	24.0	16.03	15.83	15.80	0.0	16.5
		15	0	22.95	22.82	22.74	1.0	24.0	16.04	15.89	15.81	0.0	16.5
	16QAM	1	0	22.99	23.27	23.20	1.0	24.0	16.22	16.23	16.07	0.0	16.5
		1	8	22.87	23.12	23.13	1.0	24.0	16.11	16.06	15.97	0.0	16.5
		1	14	22.92	23.24	23.16	1.0	24.0	16.11	16.22	15.98	0.0	16.5
		8	0	21.96	21.91	21.80	2.0	23.0	15.98	15.97	15.93	0.0	16.5
		8	4	21.98	21.89	21.76	2.0	23.0	16.03	15.95	15.92	0.0	16.5
		8	7	21.91	21.86	21.75	2.0	23.0	15.99	15.93	15.88	0.0	16.5
		15	0	21.91	21.84	21.77	2.0	23.0	15.98	15.93	15.86	0.0	16.5
	64QAM	1	0	21.97	21.99	21.80	2.0	23.0	16.11	16.23	16.15	0.0	16.5
		1	8	21.90	21.83	21.74	2.0	23.0	16.07	16.10	16.03	0.0	16.5
		1	14	22.08	22.02	21.74	2.0	23.0	16.03	16.23	16.20	0.0	16.5
		8	0	21.02	20.83	20.68	3.0	22.0	15.91	15.97	16.04	0.0	16.5
		8	4	20.92	20.75	20.69	3.0	22.0	15.85	15.97	15.99	0.0	16.5
		8	7	20.97	20.81	20.72	3.0	22.0	15.90	15.96	16.06	0.0	16.5
		15	0	20.99	20.67	20.74	3.0	22.0	15.87	15.84	16.10	0.0	16.5
	256QAM	1	0	19.04	19.07	18.70	5.0	20.0	15.88	16.13	16.14	0.0	16.5
		1	8	18.92	18.96	18.62	5.0	20.0	15.76	16.06	16.08	0.0	16.5
		1	14	19.00	18.99	18.69	5.0	20.0	15.85	16.11	16.08	0.0	16.5
		8	0	18.98	18.87	18.73	5.0	20.0	15.88	15.96	16.11	0.0	16.5
		8	4	18.91	18.83	18.75	5.0	20.0	15.88	15.92	16.04	0.0	16.5
		8	7	18.94	18.87	18.63	5.0	20.0	15.81	15.94	16.08	0.0	16.5
		15	0	18.95	18.80	18.72	5.0	20.0	15.90	15.91	16.07	0.0	16.5

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				23017	23095	23173			23017	23095	23173		
				699.7 MHz	707.5 MHz	715.3 MHz			699.7 MHz	707.5 MHz	715.3 MHz		
1.4 MHz	QPSK	1	0	23.85	23.80	23.73	0.0	25.0	16.10	15.93	15.84	0.0	16.5
		1	3	23.83	23.53	23.57	0.0	25.0	15.93	15.72	15.79	0.0	16.5
		1	5	23.88	23.82	23.75	0.0	25.0	16.09	15.89	15.82	0.0	16.5
		3	0	23.86	23.81	23.73	0.0	25.0	16.11	15.87	15.86	0.0	16.5
		3	1	23.85	23.81	23.68	0.0	25.0	16.13	15.87	15.80	0.0	16.5
		3	3	23.87	23.66	23.65	0.0	25.0	16.02	15.88	15.82	0.0	16.5
		6	0	22.93	22.79	22.76	1.0	24.0	16.08	15.79	15.78	0.0	16.5
	16QAM	1	0	22.92	23.17	22.80	1.0	24.0	16.45	15.89	15.96	0.0	16.5
		1	3	22.94	23.22	22.96	1.0	24.0	16.49	16.07	15.98	0.0	16.5
		1	5	22.97	23.18	22.86	1.0	24.0	16.47	15.92	16.00	0.0	16.5
		3	0	23.03	22.79	22.98	1.0	24.0	16.11	16.06	15.88	0.0	16.5
		3	1	22.94	22.86	22.88	1.0	24.0	16.16	16.04	15.80	0.0	16.5
		3	3	22.98	22.76	22.80	1.0	24.0	16.14	15.97	15.89	0.0	16.5
		6	0	21.99	21.71	21.77	2.0	23.0	16.08	15.90	15.91	0.0	16.5
	64QAM	1	0	22.06	21.92	21.85	2.0	23.0	16.11	16.06	16.04	0.0	16.5
		1	3	21.97	21.93	21.82	2.0	23.0	16.04	16.04	16.03	0.0	16.5
		1	5	22.02	21.88	21.82	2.0	23.0	16.07	15.96	16.10	0.0	16.5
		3	0	22.01	21.80	21.76	2.0	23.0	15.99	15.96	16.04	0.0	16.5
		3	1	21.96	21.77	21.71	2.0	23.0	15.95	16.02	16.00	0.0	16.5
		3	3	22.02	21.77	21.67	2.0	23.0	15.94	15.97	15.96	0.0	16.5
		6	0	20.91	20.79	20.72	3.0	22.0	15.84	16.03	16.03	0.0	16.5
	256QAM	1	0	18.81	18.78	18.63	5.0	20.0	15.80	15.99	16.12	0.0	16.5
		1	3	18.88	18.85	18.58	5.0	20.0	15.75	15.93	16.06	0.0	16.5
		1	5	18.80	18.78	18.57	5.0	20.0	15.78	15.99	16.13	0.0	16.5
		3	0	18.86	18.76	18.56	5.0	20.0	15.73	15.81	16.15	0.0	16.5
		3	1	18.80	18.68	18.52	5.0	20.0	15.67	15.82	16.19	0.0	16.5
		3	3	18.77	18.67	18.52	5.0	20.0	15.56	15.76	16.13	0.0	16.5
		6	0	18.87	18.70	18.54	5.0	20.0	15.83	15.88	16.01	0.0	16.5

LTE Band 13 Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)										
				DSI = 0					DSI = 1					
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					23230					23230			
					782 MHz					782 MHz			
10 MHz	QPSK	1	0		23.52		0.0	25.0		15.26		0.0	16.5
		1	25		23.48		0.0	25.0		15.17		0.0	16.5
		1	49		23.35		0.0	25.0		15.18		0.0	16.5
		25	0		22.43		1.0	24.0		15.24		0.0	16.5
		25	12		22.40		1.0	24.0		15.21		0.0	16.5
		25	25		22.36		1.0	24.0		15.15		0.0	16.5
		50	0		22.41		1.0	24.0		15.20		0.0	16.5
	16QAM	1	0		22.62		1.0	24.0		15.44		0.0	16.5
		1	25		22.68		1.0	24.0		15.50		0.0	16.5
		1	49		22.59		1.0	24.0		15.28		0.0	16.5
		25	0		21.49		2.0	23.0		15.25		0.0	16.5
		25	12		21.46		2.0	23.0		15.21		0.0	16.5
		25	25		21.43		2.0	23.0		15.18		0.0	16.5
		50	0		21.40		2.0	23.0		15.23		0.0	16.5
	64QAM	1	0		21.78		2.0	23.0		15.50		0.0	16.5
		1	25		21.86		2.0	23.0		15.50		0.0	16.5
		1	49		21.79		2.0	23.0		15.43		0.0	16.5
		25	0		20.55		3.0	22.0		15.26		0.0	16.5
		25	12		20.50		3.0	22.0		15.23		0.0	16.5
		25	25		20.50		3.0	22.0		15.20		0.0	16.5
		50	0		20.49		3.0	22.0		15.21		0.0	16.5
	256QAM	1	0		18.75		5.0	20.0		15.56		0.0	16.5
		1	25		18.82		5.0	20.0		15.57		0.0	16.5
		1	49		18.65		5.0	20.0		15.47		0.0	16.5
		25	0		18.52		5.0	20.0		15.29		0.0	16.5
		25	12		18.46		5.0	20.0		15.25		0.0	16.5
		25	25		18.44		5.0	20.0		15.21		0.0	16.5
		50	0		18.44		5.0	20.0		15.23		0.0	16.5
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				23205	23230	23255			23205	23230	23255		
				779.5 MHz	782 MHz	784.5 MHz			779.5 MHz	782 MHz	784.5 MHz		
5 MHz	QPSK	1	0		23.26		0.0	25.0		15.14		0.0	16.5
		1	12		23.22		0.0	25.0		15.09		0.0	16.5
		1	24		23.30		0.0	25.0		15.14		0.0	16.5
		12	0		22.32		1.0	24.0		15.20		0.0	16.5
		12	7		22.31		1.0	24.0		15.19		0.0	16.5
		12	13		22.30		1.0	24.0		15.16		0.0	16.5
		25	0		22.33		1.0	24.0		15.19		0.0	16.5
	16QAM	1	0		22.72		1.0	24.0		15.45		0.0	16.5
		1	12		22.66		1.0	24.0		15.34		0.0	16.5
		1	24		22.77		1.0	24.0		15.45		0.0	16.5
		12	0		21.38		2.0	23.0		15.26		0.0	16.5
		12	7		21.35		2.0	23.0		15.23		0.0	16.5
		12	13		21.35		2.0	23.0		15.23		0.0	16.5
		25	0		21.32		2.0	23.0		15.23		0.0	16.5
	64QAM	1	0		21.41		2.0	23.0		15.20		0.0	16.5
		1	12		21.36		2.0	23.0		15.14		0.0	16.5
		1	24		21.44		2.0	23.0		15.20		0.0	16.5
		12	0		20.27		3.0	22.0		15.16		0.0	16.5
		12	7		20.25		3.0	22.0		15.14		0.0	16.5
		12	13		20.25		3.0	22.0		15.12		0.0	16.5
		25	0		20.25		3.0	22.0		15.20		0.0	16.5
	256QAM	1	0		18.35		5.0	20.0		15.26		0.0	16.5
		1	12		18.08		5.0	20.0		15.05		0.0	16.5
		1	24		18.25		5.0	20.0		15.18		0.0	16.5
		12	0		18.25		5.0	20.0		15.18		0.0	16.5
		12	7		18.23		5.0	20.0		15.16		0.0	16.5
		12	13		18.21		5.0	20.0		15.15		0.0	16.5
		25	0		18.24		5.0	20.0		15.21		0.0	16.5

LTE Band 14 Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)										
				DSI = 0					DSI = 1					
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					23230					23230			
					782 MHz					782 MHz			
10 MHz	QPSK	1	0		24.15		0.0	25.0		15.16		0.0	16.5
		1	25		24.14		0.0	25.0		15.15		0.0	16.5
		1	49		24.01		0.0	25.0		15.02		0.0	16.5
		25	0		23.15		1.0	24.0		15.13		0.0	16.5
		25	12		23.13		1.0	24.0		15.10		0.0	16.5
		25	25		23.08		1.0	24.0		15.07		0.0	16.5
		50	0		23.14		1.0	24.0		15.10		0.0	16.5
	16QAM	1	0		23.39		1.0	24.0		15.43		0.0	16.5
		1	25		23.44		1.0	24.0		15.43		0.0	16.5
		1	49		23.27		1.0	24.0		15.33		0.0	16.5
		25	0		22.14		2.0	23.0		15.19		0.0	16.5
		25	12		22.13		2.0	23.0		15.15		0.0	16.5
		25	25		22.11		2.0	23.0		15.14		0.0	16.5
		50	0		22.12		2.0	23.0		15.11		0.0	16.5
	64QAM	1	0		22.27		2.0	23.0		15.23		0.0	16.5
		1	25		22.27		2.0	23.0		15.24		0.0	16.5
		1	49		22.22		2.0	23.0		15.16		0.0	16.5
		25	0		21.12		3.0	22.0		15.18		0.0	16.5
		25	12		21.08		3.0	22.0		15.15		0.0	16.5
		25	25		21.07		3.0	22.0		15.12		0.0	16.5
		50	0		21.11		3.0	22.0		15.13		0.0	16.5
	256QAM	1	0		19.51		5.0	20.0		15.54		0.0	16.5
		1	25		19.43		5.0	20.0		15.54		0.0	16.5
		1	49		19.36		5.0	20.0		15.41		0.0	16.5
		25	0		19.17		5.0	20.0		15.21		0.0	16.5
		25	12		19.14		5.0	20.0		15.18		0.0	16.5
		25	25		19.10		5.0	20.0		15.14		0.0	16.5
		50	0		19.13		5.0	20.0		15.15		0.0	16.5
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				23305	23330	23355			23305	23330	23355		
				790.5 MHz	793 MHz	795.5 MHz			790.5 MHz	793 MHz	795.5 MHz		
5 MHz	QPSK	1	0		23.36		0.0	25.0		15.07		0.0	16.5
		1	12		23.32		0.0	25.0		15.02		0.0	16.5
		1	24		23.33		0.0	25.0		15.06		0.0	16.5
		12	0		22.38		1.0	24.0		15.11		0.0	16.5
		12	7		22.35		1.0	24.0		15.09		0.0	16.5
		12	13		22.34		1.0	24.0		15.04		0.0	16.5
		25	0		22.36		1.0	24.0		15.08		0.0	16.5
	16QAM	1	0		22.61		1.0	24.0		15.41		0.0	16.5
		1	12		22.50		1.0	24.0		15.32		0.0	16.5
		1	24		22.56		1.0	24.0		15.40		0.0	16.5
		12	0		21.38		2.0	23.0		15.10		0.0	16.5
		12	7		21.36		2.0	23.0		15.06		0.0	16.5
		12	13		21.38		2.0	23.0		15.06		0.0	16.5
		25	0		21.34		2.0	23.0		15.12		0.0	16.5
	64QAM	1	0		21.64		2.0	23.0		15.35		0.0	16.5
		1	12		21.49		2.0	23.0		15.28		0.0	16.5
		1	24		21.58		2.0	23.0		15.33		0.0	16.5
		12	0		20.33		3.0	22.0		15.10		0.0	16.5
		12	7		20.31		3.0	22.0		15.08		0.0	16.5
		12	13		20.29		3.0	22.0		15.04		0.0	16.5
		25	0		20.33		3.0	22.0		15.14		0.0	16.5
	256QAM	1	0		18.77		5.0	20.0		15.04		0.0	16.5
		1	12		18.61		5.0	20.0		14.87		0.0	16.5
		1	24		18.70		5.0	20.0		14.95		0.0	16.5
		12	0		18.39		5.0	20.0		15.12		0.0	16.5
		12	7		18.38		5.0	20.0		15.10		0.0	16.5
		12	13		18.33		5.0	20.0		15.09		0.0	16.5
		25	0		18.33		5.0	20.0		15.12		0.0	16.5

LTE Band 25 (Main.1) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)									
				DSI = 0					DSI = 1				
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26140	26365	26590			26140	26365	26590		
				1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	QPSK	1	0	23.31	23.98	23.96	0.0	25.0	12.57	12.63	12.62	0.0	13.5
		1	49	23.63	23.85	23.36	0.0	25.0	12.64	12.43	12.62	0.0	13.5
		1	99	24.05	23.61	23.23	0.0	25.0	12.65	12.56	12.54	0.0	13.5
		50	0	22.54	23.14	22.84	1.0	24.0	12.55	12.50	12.60	0.0	13.5
		50	24	22.92	23.13	22.57	1.0	24.0	12.53	12.60	12.58	0.0	13.5
		50	50	23.20	23.02	22.40	1.0	24.0	12.63	12.59	12.57	0.0	13.5
		100	0	22.90	23.09	22.23	1.0	24.0	12.54	12.60	12.58	0.0	13.5
	16QAM	1	0	22.49	23.47	22.86	1.0	24.0	13.01	13.00	12.91	0.0	13.5
		1	49	23.18	23.43	22.42	1.0	24.0	12.80	12.72	12.82	0.0	13.5
		1	99	23.58	23.24	21.88	1.0	24.0	12.90	12.96	12.78	0.0	13.5
		50	0	22.01	22.59	21.83	2.0	23.0	12.54	12.64	12.60	0.0	13.5
		50	24	22.40	22.61	21.66	2.0	23.0	12.52	12.60	12.57	0.0	13.5
		50	50	22.66	22.52	21.58	2.0	23.0	12.49	12.58	12.55	0.0	13.5
		100	0	22.39	22.56	21.81	2.0	23.0	12.57	12.61	12.57	0.0	13.5
	64QAM	1	0	22.44	22.43	22.38	2.0	23.0	12.90	12.84	12.69	0.0	13.5
		1	49	22.80	22.99	21.82	2.0	23.0	13.10	13.03	12.71	0.0	13.5
		1	99	22.89	22.69	21.18	2.0	23.0	12.87	12.74	12.59	0.0	13.5
		50	0	21.67	21.91	21.39	3.0	22.0	12.54	12.53	12.50	0.0	13.5
		50	24	21.69	21.91	21.22	3.0	22.0	12.53	12.51	12.46	0.0	13.5
		50	50	21.69	21.90	21.11	3.0	22.0	12.50	12.52	12.46	0.0	13.5
		100	0	21.69	21.89	21.26	3.0	22.0	12.52	12.47	12.46	0.0	13.5
	256QAM	1	0	19.93	19.48	19.94	5.0	20.0	12.91	12.94	12.64	0.0	13.5
		1	49	19.28	19.29	19.77	5.0	20.0	12.93	13.14	12.84	0.0	13.5
		1	99	19.92	19.43	19.25	5.0	20.0	12.85	12.88	12.58	0.0	13.5
		50	0	19.64	19.86	19.95	5.0	20.0	12.52	12.54	12.48	0.0	13.5
		50	24	19.63	19.84	19.86	5.0	20.0	12.49	12.50	12.44	0.0	13.5
		50	50	19.61	19.82	19.76	5.0	20.0	12.48	12.49	12.44	0.0	13.5
		100	0	19.59	19.84	19.90	5.0	20.0	12.52	12.50	12.46	0.0	13.5
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26115	26365	26615			26115	26365	26615		
				1857.5 MHz	1882.5 MHz	1907.5 MHz			1857.5 MHz	1882.5 MHz	1907.5 MHz		
15 MHz	QPSK	1	0	23.07	24.03	23.63	0.0	25.0	12.65	12.63	12.64	0.0	13.5
		1	37	23.86	23.93	23.34	0.0	25.0	12.50	12.47	12.55	0.0	13.5
		1	74	23.88	24.00	23.27	0.0	25.0	12.58	12.58	12.57	0.0	13.5
		36	0	22.91	23.09	22.81	1.0	24.0	12.66	12.64	12.61	0.0	13.5
		36	20	23.09	23.06	22.78	1.0	24.0	12.64	12.61	12.60	0.0	13.5
		36	39	23.08	23.05	22.80	1.0	24.0	12.63	12.62	12.61	0.0	13.5
		75	0	23.09	23.07	22.78	1.0	24.0	12.62	12.61	12.61	0.0	13.5
	16QAM	1	0	22.63	23.29	23.15	1.0	24.0	12.99	12.97	12.99	0.0	13.5
		1	37	23.16	23.19	23.00	1.0	24.0	12.85	12.75	12.88	0.0	13.5
		1	74	23.17	23.23	22.92	1.0	24.0	12.93	12.89	12.95	0.0	13.5
		36	0	22.05	22.07	22.09	2.0	23.0	12.66	12.64	12.65	0.0	13.5
		36	20	22.02	22.02	22.06	2.0	23.0	12.63	12.62	12.63	0.0	13.5
		36	39	21.98	22.02	22.04	2.0	23.0	12.62	12.61	12.63	0.0	13.5
		75	0	22.01	21.98	22.03	2.0	23.0	12.60	12.60	12.61	0.0	13.5
	64QAM	1	0	22.03	22.15	22.50	2.0	23.0	12.89	13.02	12.82	0.0	13.5
		1	37	22.15	22.26	22.32	2.0	23.0	12.77	12.87	12.73	0.0	13.5
		1	74	22.15	22.16	21.70	2.0	23.0	12.89	12.91	12.72	0.0	13.5
		36	0	21.23	21.29	21.41	3.0	22.0	12.77	12.80	12.82	0.0	13.5
		36	20	21.24	21.28	21.39	3.0	22.0	12.74	12.77	12.82	0.0	13.5
		36	39	21.23	21.28	21.38	3.0	22.0	12.74	12.77	12.81	0.0	13.5
		75	0	21.24	21.24	21.44	3.0	22.0	12.79	12.73	12.74	0.0	13.5
	256QAM	1	0	19.49	19.26	19.52	5.0	20.0	12.95	13.08	12.65	0.0	13.5
		1	37	19.50	19.24	19.56	5.0	20.0	12.87	12.98	12.61	0.0	13.5
		1	74	19.45	19.21	19.43	5.0	20.0	12.92	13.02	12.58	0.0	13.5
		36	0	19.20	19.15	19.36	5.0	20.0	12.77	12.78	12.73	0.0	13.5
		36	20	19.20	19.12	19.34	5.0	20.0	12.73	12.77	12.70	0.0	13.5
		36	39	19.18	19.11	19.32	5.0	20.0	12.72	12.74	12.69	0.0	13.5
		75	0	19.17	19.12	19.34	5.0	20.0	12.76	12.76	12.72	0.0	13.5

LTE Band 25 (Main.1) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26090	26365	26640			26090	26365	26640		
				1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz		
10 MHz	QPSK	1	0	23.57	24.03	23.48	0.0	25.0	12.68	12.67	12.61	0.0	13.5
		1	25	23.86	24.08	23.53	0.0	25.0	12.58	12.67	12.49	0.0	13.5
		1	49	24.06	24.02	23.61	0.0	25.0	12.67	12.60	12.59	0.0	13.5
		25	0	23.08	23.03	22.81	1.0	24.0	12.67	12.60	12.61	0.0	13.5
		25	12	23.04	22.99	22.95	1.0	24.0	12.64	12.58	12.58	0.0	13.5
		25	25	23.03	22.98	23.04	1.0	24.0	12.65	12.58	12.58	0.0	13.5
		50	0	23.05	23.00	22.97	1.0	24.0	12.66	12.60	12.59	0.0	13.5
	16QAM	1	0	23.09	23.21	23.02	1.0	24.0	12.82	12.82	13.12	0.0	13.5
		1	25	23.25	23.26	23.19	1.0	24.0	12.80	12.85	13.11	0.0	13.5
		1	49	23.17	23.22	23.27	1.0	24.0	12.73	12.82	13.02	0.0	13.5
		25	0	22.04	22.05	22.09	2.0	23.0	12.70	12.65	12.62	0.0	13.5
		25	12	22.00	22.01	22.05	2.0	23.0	12.69	12.62	12.60	0.0	13.5
		25	25	22.01	22.00	22.03	2.0	23.0	12.69	12.62	12.61	0.0	13.5
		50	0	22.01	21.96	22.00	2.0	23.0	12.64	12.57	12.58	0.0	13.5
	64QAM	1	0	22.23	21.95	22.10	2.0	23.0	13.12	12.94	13.01	0.0	13.5
		1	25	22.18	22.09	22.08	2.0	23.0	13.11	12.96	13.07	0.0	13.5
		1	49	22.21	22.00	22.00	2.0	23.0	13.03	12.92	13.00	0.0	13.5
		25	0	20.89	20.94	20.98	3.0	22.0	12.83	12.76	12.76	0.0	13.5
		25	12	20.89	20.92	20.95	3.0	22.0	12.80	12.73	12.76	0.0	13.5
		25	25	20.79	20.90	20.92	3.0	22.0	12.80	12.74	12.72	0.0	13.5
		50	0	20.87	20.89	20.94	3.0	22.0	12.79	12.74	12.74	0.0	13.5
	256QAM	1	0	19.32	19.30	19.03	5.0	20.0	12.75	13.07	12.74	0.0	13.5
		1	25	19.24	19.30	18.79	5.0	20.0	12.64	12.99	12.76	0.0	13.5
		1	49	19.21	19.22	18.88	5.0	20.0	12.66	13.01	12.69	0.0	13.5
		25	0	18.78	18.86	18.95	5.0	20.0	12.90	12.79	12.77	0.0	13.5
		25	12	18.69	18.86	18.93	5.0	20.0	12.87	12.77	12.76	0.0	13.5
		25	25	18.90	18.89	18.87	5.0	20.0	12.84	12.75	12.73	0.0	13.5
		50	0	18.79	18.91	18.85	5.0	20.0	12.80	12.73	12.72	0.0	13.5
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26065	26365	26665			26065	26365	26665		
				1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	QPSK	1	0	23.47	23.84	23.23	0.0	25.0	12.68	12.58	12.58	0.0	13.5
		1	12	23.46	23.70	23.46	0.0	25.0	12.61	12.45	12.48	0.0	13.5
		1	24	23.48	23.91	23.33	0.0	25.0	12.69	12.59	12.58	0.0	13.5
		12	0	22.75	22.86	22.73	1.0	24.0	12.67	12.60	12.59	0.0	13.5
		12	7	22.81	22.86	22.88	1.0	24.0	12.65	12.59	12.59	0.0	13.5
		12	13	22.84	22.86	22.88	1.0	24.0	12.66	12.59	12.56	0.0	13.5
		25	0	22.81	22.87	22.86	1.0	24.0	12.67	12.61	12.58	0.0	13.5
	16QAM	1	0	22.80	23.33	22.75	1.0	24.0	12.84	13.11	12.96	0.0	13.5
		1	12	22.94	22.94	22.95	1.0	24.0	12.69	12.79	12.83	0.0	13.5
		1	24	23.03	23.27	22.96	1.0	24.0	12.78	13.05	12.97	0.0	13.5
		12	0	21.90	21.96	21.92	2.0	23.0	12.71	12.74	12.59	0.0	13.5
		12	7	21.86	21.94	21.88	2.0	23.0	12.70	12.73	12.56	0.0	13.5
		12	13	21.89	21.93	21.86	2.0	23.0	12.72	12.73	12.55	0.0	13.5
		25	0	21.87	21.85	21.84	2.0	23.0	12.70	12.63	12.61	0.0	13.5
	64QAM	1	0	21.81	22.12	22.23	2.0	23.0	12.73	12.97	12.90	0.0	13.5
		1	12	21.75	22.10	22.18	2.0	23.0	12.66	12.88	12.84	0.0	13.5
		1	24	21.90	22.21	22.16	2.0	23.0	12.76	12.91	12.92	0.0	13.5
		12	0	20.93	20.94	20.91	3.0	22.0	12.61	12.61	12.64	0.0	13.5
		12	7	20.92	20.91	20.89	3.0	22.0	12.61	12.60	12.64	0.0	13.5
		12	13	20.93	20.93	20.87	3.0	22.0	12.59	12.59	12.64	0.0	13.5
		25	0	20.93	20.89	20.90	3.0	22.0	12.67	12.65	12.60	0.0	13.5
	256QAM	1	0	18.78	18.98	19.26	5.0	20.0	12.71	12.90	12.69	0.0	13.5
		1	12	18.44	18.91	19.15	5.0	20.0	12.49	12.86	12.62	0.0	13.5
		1	24	18.68	18.97	19.16	5.0	20.0	12.70	12.88	12.68	0.0	13.5
		12	0	18.83	18.87	18.87	5.0	20.0	12.66	12.69	12.67	0.0	13.5
		12	7	18.82	18.86	18.86	5.0	20.0	12.67	12.70	12.65	0.0	13.5
		12	13	18.80	18.83	18.81	5.0	20.0	12.64	12.67	12.63	0.0	13.5
		25	0	18.84	18.83	18.82	5.0	20.0	12.68	12.61	12.67	0.0	13.5

LTE Band 25 (Main.1) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26055	26365	26675			26055	26365	26675		
				1851.5 MHz	1882.5 MHz	1913.5 MHz			1851.5 MHz	1882.5 MHz	1913.5 MHz		
3 MHz	QPSK	1	0	23.58	23.96	23.81	0.0	25.0	12.75	12.54	12.69	0.0	13.5
		1	8	23.65	23.82	23.79	0.0	25.0	12.67	12.43	12.49	0.0	13.5
		1	14	23.61	23.95	23.54	0.0	25.0	12.76	12.51	12.70	0.0	13.5
		8	0	22.99	22.97	23.08	1.0	24.0	12.72	12.60	12.67	0.0	13.5
		8	4	23.04	23.03	23.02	1.0	24.0	12.63	12.57	12.59	0.0	13.5
		8	7	23.06	22.98	23.04	1.0	24.0	12.64	12.58	12.60	0.0	13.5
		15	0	23.05	23.02	22.95	1.0	24.0	12.64	12.62	12.63	0.0	13.5
	16QAM	1	0	23.05	23.31	23.31	1.0	24.0	13.16	12.93	12.68	0.0	13.5
		1	8	23.06	23.23	23.24	1.0	24.0	13.10	12.80	12.53	0.0	13.5
		1	14	23.07	23.34	23.21	1.0	24.0	13.09	12.96	12.58	0.0	13.5
		8	0	22.08	21.99	22.04	2.0	23.0	12.78	12.66	12.62	0.0	13.5
		8	4	22.12	21.98	21.99	2.0	23.0	12.76	12.68	12.65	0.0	13.5
		8	7	22.04	21.95	21.94	2.0	23.0	12.78	12.67	12.64	0.0	13.5
		15	0	22.00	21.96	21.94	2.0	23.0	12.73	12.61	12.60	0.0	13.5
	64QAM	1	0	22.09	22.13	21.97	2.0	23.0	12.84	13.04	12.77	0.0	13.5
		1	8	22.07	21.92	21.95	2.0	23.0	12.79	12.95	12.60	0.0	13.5
		1	14	22.25	22.23	21.94	2.0	23.0	12.74	13.08	12.82	0.0	13.5
		8	0	21.05	20.99	20.89	3.0	22.0	12.80	12.76	12.77	0.0	13.5
		8	4	21.03	20.95	20.89	3.0	22.0	12.83	12.77	12.73	0.0	13.5
		8	7	21.06	20.93	20.89	3.0	22.0	12.84	12.79	12.78	0.0	13.5
		15	0	21.00	20.83	20.93	3.0	22.0	12.80	12.70	12.73	0.0	13.5
	256QAM	1	0	18.95	19.13	18.92	5.0	20.0	12.89	13.10	12.67	0.0	13.5
		1	8	18.88	18.94	18.80	5.0	20.0	12.89	13.03	12.51	0.0	13.5
		1	14	18.88	19.06	18.88	5.0	20.0	12.89	13.07	12.62	0.0	13.5
		8	0	18.95	18.93	18.91	5.0	20.0	12.88	12.85	12.81	0.0	13.5
		8	4	18.90	18.88	18.91	5.0	20.0	12.87	12.80	12.75	0.0	13.5
		8	7	18.93	18.90	18.84	5.0	20.0	12.79	12.83	12.81	0.0	13.5
		15	0	18.96	18.89	18.91	5.0	20.0	12.89	12.74	12.73	0.0	13.5
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26047	26365	26683			26047	26365	26683		
				1850.7 MHz	1882.5 MHz	1914.3 MHz			1850.7 MHz	1882.5 MHz	1914.3 MHz		
1.4 MHz	QPSK	1	0	23.49	24.01	23.73	0.0	25.0	12.75	12.70	12.72	0.0	13.5
		1	3	23.46	23.89	23.57	0.0	25.0	12.56	12.68	12.59	0.0	13.5
		1	5	23.49	24.02	23.45	0.0	25.0	12.74	12.68	12.68	0.0	13.5
		3	0	23.39	23.95	23.56	0.0	25.0	12.71	12.64	12.60	0.0	13.5
		3	1	23.41	23.95	23.55	0.0	25.0	12.70	12.58	12.57	0.0	13.5
		3	3	23.41	23.93	23.52	0.0	25.0	12.59	12.55	12.60	0.0	13.5
		6	0	22.80	22.93	22.92	1.0	24.0	12.72	12.62	12.63	0.0	13.5
	16QAM	1	0	23.16	22.82	23.00	1.0	24.0	12.94	12.79	12.62	0.0	13.5
		1	3	23.21	23.00	22.97	1.0	24.0	13.07	12.84	12.76	0.0	13.5
		1	5	23.26	22.85	23.01	1.0	24.0	12.98	12.83	12.68	0.0	13.5
		3	0	22.87	23.10	22.97	1.0	24.0	12.71	12.52	12.78	0.0	13.5
		3	1	22.89	22.98	22.92	1.0	24.0	12.77	12.49	12.67	0.0	13.5
		3	3	22.90	23.01	22.96	1.0	24.0	12.73	12.51	12.68	0.0	13.5
		6	0	22.01	21.92	22.05	2.0	23.0	12.64	12.72	12.64	0.0	13.5
	64QAM	1	0	22.00	22.01	22.03	2.0	23.0	12.90	12.96	12.80	0.0	13.5
		1	3	22.23	22.03	22.12	2.0	23.0	13.01	12.92	12.77	0.0	13.5
		1	5	22.14	21.98	22.12	2.0	23.0	13.02	12.90	12.72	0.0	13.5
		3	0	21.94	21.95	21.98	2.0	23.0	12.71	12.84	12.80	0.0	13.5
		3	1	21.93	21.95	21.94	2.0	23.0	12.68	12.78	12.73	0.0	13.5
		3	3	21.88	21.90	21.96	2.0	23.0	12.67	12.76	12.71	0.0	13.5
		6	0	20.99	20.94	20.97	3.0	22.0	12.78	12.90	12.79	0.0	13.5
	256QAM	1	0	19.03	18.92	18.88	5.0	20.0	12.95	12.79	12.80	0.0	13.5
		1	3	18.81	18.86	18.94	5.0	20.0	12.92	12.91	12.70	0.0	13.5
		1	5	18.97	18.85	18.80	5.0	20.0	12.97	12.75	12.80	0.0	13.5
		3	0	18.90	18.73	18.85	5.0	20.0	12.83	12.72	12.61	0.0	13.5
		3	1	18.87	18.70	18.81	5.0	20.0	12.83	12.65	12.56	0.0	13.5
		3	3	18.83	18.67	18.74	5.0	20.0	12.75	12.54	12.52	0.0	13.5
		6	0	18.82	18.77	18.74	5.0	20.0	12.80	12.74	12.72	0.0	13.5

LTE Band 25 (Sub.2) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)										
				DSI = 0					DSI = 1					
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26140	26365	26590			26140	26365	26590		
				1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	QPSK	1	0	23.22	23.71	23.70	0.0	24.0	9.78	10.18	10.17	0.0	11.0
		1	49	23.15	23.68	23.55	0.0	24.0	9.95	10.12	9.97	0.0	11.0
		1	99	23.42	23.64	22.67	0.0	24.0	10.04	10.07	10.16	0.0	11.0
		50	0	22.34	22.78	22.68	1.0	23.0	9.85	10.09	10.08	0.0	11.0
		50	24	22.40	22.77	22.61	1.0	23.0	9.89	10.08	10.03	0.0	11.0
		50	50	22.44	22.73	22.59	1.0	23.0	9.94	10.06	10.04	0.0	11.0
		100	0	22.40	22.74	22.64	1.0	23.0	9.90	10.08	10.08	0.0	11.0
	16QAM	1	0	22.57	22.87	22.82	1.0	23.0	10.08	10.45	10.41	0.0	11.0
		1	49	22.69	22.91	22.86	1.0	23.0	10.16	10.41	10.14	0.0	11.0
		1	99	22.80	22.97	22.47	1.0	23.0	10.29	10.31	10.30	0.0	11.0
		50	0	21.41	21.80	21.66	2.0	22.0	9.81	10.09	10.08	0.0	11.0
		50	24	21.46	21.79	21.57	2.0	22.0	9.87	10.06	10.01	0.0	11.0
		50	50	21.49	21.75	21.54	2.0	22.0	9.92	10.04	9.99	0.0	11.0
		100	0	21.43	21.73	21.63	2.0	22.0	9.91	10.08	10.06	0.0	11.0
	64QAM	1	0	21.49	21.84	21.83	2.0	22.0	10.02	10.35	10.40	0.0	11.0
		1	49	21.53	21.81	21.67	2.0	22.0	10.30	10.52	10.33	0.0	11.0
		1	99	21.73	21.76	21.68	2.0	22.0	10.29	10.30	10.36	0.0	11.0
		50	0	20.36	20.72	20.64	3.0	21.0	9.86	10.12	10.08	0.0	11.0
		50	24	20.42	20.71	20.59	3.0	21.0	9.92	10.10	10.04	0.0	11.0
		50	50	20.47	20.68	20.58	3.0	21.0	9.98	10.07	10.02	0.0	11.0
		100	0	20.40	20.65	20.57	3.0	21.0	9.93	10.10	10.08	0.0	11.0
	256QAM	1	0	18.57	18.77	18.76	5.0	19.0	10.08	10.40	10.40	0.0	11.0
		1	49	18.68	18.63	18.37	5.0	19.0	10.17	10.43	10.28	0.0	11.0
		1	99	18.72	18.73	18.62	5.0	19.0	10.29	10.29	10.31	0.0	11.0
		50	0	18.31	18.70	18.60	5.0	19.0	9.83	10.10	10.06	0.0	11.0
		50	24	18.36	18.69	18.54	5.0	19.0	9.88	10.08	9.98	0.0	11.0
		50	50	18.40	18.64	18.54	5.0	19.0	9.94	10.03	9.99	0.0	11.0
		100	0	18.32	18.65	18.58	5.0	19.0	9.88	10.04	10.01	0.0	11.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26115	26365	26615			26115	26365	26615		
				1857.5 MHz	1882.5 MHz	1907.5 MHz			1857.5 MHz	1882.5 MHz	1907.5 MHz		
15 MHz	QPSK	1	0	23.23	23.37	23.50	0.0	24.0	10.05	10.00	9.87	0.0	11.0
		1	37	23.15	23.52	23.52	0.0	24.0	9.77	9.85	9.91	0.0	11.0
		1	74	23.37	23.35	23.15	0.0	24.0	10.04	9.96	10.02	0.0	11.0
		36	0	22.28	22.42	22.50	1.0	23.0	10.05	10.03	9.88	0.0	11.0
		36	20	22.30	22.41	22.44	1.0	23.0	10.01	10.01	9.92	0.0	11.0
		36	39	22.36	22.38	22.46	1.0	23.0	10.01	9.98	9.96	0.0	11.0
		75	0	22.34	22.43	22.50	1.0	23.0	10.04	10.01	9.92	0.0	11.0
	16QAM	1	0	22.36	22.80	22.70	1.0	23.0	10.35	10.33	10.15	0.0	11.0
		1	37	22.44	22.87	22.67	1.0	23.0	10.13	10.27	10.20	0.0	11.0
		1	74	22.48	22.71	22.65	1.0	23.0	10.30	10.23	10.33	0.0	11.0
		36	0	21.27	21.48	21.52	2.0	22.0	10.03	10.02	9.88	0.0	11.0
		36	20	21.30	21.46	21.47	2.0	22.0	9.99	10.00	9.91	0.0	11.0
		36	39	21.33	21.43	21.47	2.0	22.0	9.99	9.98	9.96	0.0	11.0
		75	0	21.32	21.41	21.49	2.0	22.0	10.01	9.98	9.91	0.0	11.0
	64QAM	1	0	21.03	21.38	21.50	2.0	22.0	9.89	10.19	10.10	0.0	11.0
		1	37	21.07	21.19	21.35	2.0	22.0	9.84	10.05	9.94	0.0	11.0
		1	74	21.15	21.38	21.38	2.0	22.0	10.08	10.08	10.08	0.0	11.0
		36	0	20.13	20.19	20.21	3.0	21.0	9.84	10.05	10.07	0.0	11.0
		36	20	20.18	20.18	20.17	3.0	21.0	9.88	10.02	10.02	0.0	11.0
		36	39	20.19	20.13	20.20	3.0	21.0	9.90	10.01	10.03	0.0	11.0
		75	0	20.10	20.16	20.19	3.0	21.0	9.93	9.99	10.02	0.0	11.0
	256QAM	1	0	18.06	18.26	18.48	5.0	19.0	9.99	10.38	10.00	0.0	11.0
		1	37	18.10	18.20	18.33	5.0	19.0	10.02	10.33	9.85	0.0	11.0
		1	74	18.21	18.18	18.46	5.0	19.0	10.15	10.33	10.00	0.0	11.0
		36	0	18.02	18.13	18.20	5.0	19.0	9.85	10.04	10.01	0.0	11.0
		36	20	18.04	18.08	18.16	5.0	19.0	9.86	10.04	9.96	0.0	11.0
		36	39	18.07	18.08	18.15	5.0	19.0	9.91	10.00	9.97	0.0	11.0
		75	0	18.07	18.12	18.20	5.0	19.0	9.91	10.02	10.00	0.0	11.0

LTE Band 25 (Sub.2) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26090	26365	26640			26090	26365	26640		
				1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz		
10 MHz	QPSK	1	0	23.24	23.39	22.94	0.0	24.0	10.08	10.01	9.88	0.0	11.0
		1	25	23.03	23.46	22.45	0.0	24.0	10.17	9.87	9.90	0.0	11.0
		1	49	23.38	23.40	22.20	0.0	24.0	10.15	9.99	10.02	0.0	11.0
		25	0	22.31	22.43	21.92	1.0	23.0	10.00	10.00	9.91	0.0	11.0
		25	12	22.32	22.40	21.82	1.0	23.0	10.01	9.97	9.92	0.0	11.0
		25	25	22.35	22.36	21.76	1.0	23.0	10.04	9.98	9.95	0.0	11.0
		50	0	22.34	22.41	21.85	1.0	23.0	10.03	9.98	9.92	0.0	11.0
	16QAM	1	0	22.60	22.44	22.45	1.0	23.0	10.20	10.29	10.06	0.0	11.0
		1	25	22.57	22.54	22.11	1.0	23.0	10.26	10.23	10.19	0.0	11.0
		1	49	22.66	22.33	21.86	1.0	23.0	10.32	10.21	10.09	0.0	11.0
		25	0	21.39	21.46	21.31	2.0	22.0	10.01	10.02	9.92	0.0	11.0
		25	12	21.41	21.44	21.24	2.0	22.0	10.01	9.99	9.94	0.0	11.0
		25	25	21.43	21.40	21.21	2.0	22.0	10.04	9.98	9.98	0.0	11.0
		50	0	21.35	21.44	21.28	2.0	22.0	9.98	9.97	9.92	0.0	11.0
	64QAM	1	0	21.24	21.46	21.21	2.0	22.0	10.02	10.21	9.98	0.0	11.0
		1	25	21.40	21.56	21.22	2.0	22.0	10.03	10.32	10.10	0.0	11.0
		1	49	21.27	21.47	21.34	2.0	22.0	10.05	10.22	10.12	0.0	11.0
		25	0	20.19	20.24	20.21	3.0	21.0	9.93	9.99	9.98	0.0	11.0
		25	12	20.21	20.23	20.25	3.0	21.0	9.95	9.99	10.01	0.0	11.0
		25	25	20.23	20.22	20.26	3.0	21.0	9.97	9.96	10.01	0.0	11.0
		50	0	20.19	20.23	20.26	3.0	21.0	9.92	9.97	10.01	0.0	11.0
	256QAM	1	0	18.18	18.49	18.17	5.0	19.0	9.99	10.34	10.01	0.0	11.0
		1	25	18.23	18.56	18.31	5.0	19.0	10.07	10.21	9.96	0.0	11.0
		1	49	18.29	18.42	18.24	5.0	19.0	10.09	10.28	10.06	0.0	11.0
		25	0	18.19	18.25	18.22	5.0	19.0	9.98	10.02	9.98	0.0	11.0
		25	12	18.22	18.24	18.23	5.0	19.0	9.99	10.00	9.99	0.0	11.0
		25	25	18.22	18.20	18.23	5.0	19.0	10.00	9.96	10.00	0.0	11.0
		50	0	18.16	18.22	18.21	5.0	19.0	9.90	9.97	9.98	0.0	11.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26065	26365	26665			26065	26365	26665		
				1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	QPSK	1	0	23.27	23.34	22.68	0.0	24.0	10.05	9.97	9.88	0.0	11.0
		1	12	23.42	23.40	22.62	0.0	24.0	10.13	9.76	9.92	0.0	11.0
		1	24	23.37	23.38	22.39	0.0	24.0	10.18	9.97	9.98	0.0	11.0
		12	0	22.34	22.39	21.95	1.0	23.0	10.04	10.00	9.96	0.0	11.0
		12	7	22.36	22.39	21.97	1.0	23.0	10.07	10.00	9.97	0.0	11.0
		12	13	22.35	22.38	21.96	1.0	23.0	10.09	9.98	9.97	0.0	11.0
		25	0	22.34	22.40	21.97	1.0	23.0	10.08	9.99	9.97	0.0	11.0
	16QAM	1	0	22.66	22.97	22.22	1.0	23.0	10.34	10.32	10.11	0.0	11.0
		1	12	22.72	22.91	22.27	1.0	23.0	10.32	10.17	10.09	0.0	11.0
		1	24	22.68	22.97	22.04	1.0	23.0	10.40	10.25	10.21	0.0	11.0
		12	0	21.40	21.50	21.36	2.0	22.0	10.07	10.08	9.98	0.0	11.0
		12	7	21.39	21.50	21.42	2.0	22.0	10.08	10.10	9.99	0.0	11.0
		12	13	21.40	21.48	21.41	2.0	22.0	10.10	10.08	10.01	0.0	11.0
		25	0	21.40	21.44	21.42	2.0	22.0	10.03	9.98	9.96	0.0	11.0
	64QAM	1	0	21.28	21.59	21.38	2.0	22.0	9.95	10.36	10.07	0.0	11.0
		1	12	21.37	21.55	21.37	2.0	22.0	9.97	10.24	9.98	0.0	11.0
		1	24	21.36	21.55	21.50	2.0	22.0	10.04	10.30	10.20	0.0	11.0
		12	0	20.18	20.24	20.22	3.0	21.0	9.92	9.97	9.92	0.0	11.0
		12	7	20.21	20.25	20.24	3.0	21.0	9.94	9.94	9.93	0.0	11.0
		12	13	20.20	20.23	20.27	3.0	21.0	9.92	9.94	9.96	0.0	11.0
		25	0	20.22	20.24	20.25	3.0	21.0	9.93	9.97	9.96	0.0	11.0
	256QAM	1	0	18.27	18.43	18.19	5.0	19.0	9.97	10.20	10.04	0.0	11.0
		1	12	18.09	18.45	18.22	5.0	19.0	9.88	10.09	9.96	0.0	11.0
		1	24	18.31	18.45	18.34	5.0	19.0	10.02	10.19	10.12	0.0	11.0
		12	0	18.19	18.26	18.17	5.0	19.0	9.91	9.99	9.96	0.0	11.0
		12	7	18.21	18.26	18.20	5.0	19.0	9.92	9.99	9.98	0.0	11.0
		12	13	18.19	18.20	18.22	5.0	19.0	9.92	9.93	9.99	0.0	11.0
		25	0	18.20	18.18	18.27	5.0	19.0	9.93	9.93	10.03	0.0	11.0

LTE Band 25 (Sub.2) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26055	26365	26675			26055	26365	26675		
				1851.5 MHz	1882.5 MHz	1913.5 MHz			1851.5 MHz	1882.5 MHz	1913.5 MHz		
3 MHz	QPSK	1	0	23.40	23.32	22.75	0.0	24.0	10.16	9.96	10.03	0.0	11.0
		1	8	23.21	23.42	22.66	0.0	24.0	9.95	9.83	9.99	0.0	11.0
		1	14	23.47	23.31	22.42	0.0	24.0	10.27	9.92	10.11	0.0	11.0
		8	0	22.37	22.39	21.92	1.0	23.0	10.10	10.00	10.01	0.0	11.0
		8	4	22.35	22.36	21.94	1.0	23.0	10.10	9.99	10.00	0.0	11.0
		8	7	22.37	22.38	21.91	1.0	23.0	10.14	9.98	10.04	0.0	11.0
		15	0	22.39	22.39	21.93	1.0	23.0	10.13	10.01	9.98	0.0	11.0
	16QAM	1	0	22.39	22.71	22.36	1.0	23.0	10.11	10.34	10.27	0.0	11.0
		1	8	22.45	22.78	22.38	1.0	23.0	10.08	10.31	10.26	0.0	11.0
		1	14	22.34	22.74	22.16	1.0	23.0	10.11	10.36	10.27	0.0	11.0
		8	0	21.42	21.44	21.36	2.0	22.0	10.13	10.07	10.06	0.0	11.0
		8	4	21.44	21.39	21.39	2.0	22.0	10.16	10.02	10.09	0.0	11.0
		8	7	21.42	21.37	21.38	2.0	22.0	10.15	10.03	10.06	0.0	11.0
		15	0	21.42	21.41	21.38	2.0	22.0	10.05	9.98	10.00	0.0	11.0
	64QAM	1	0	21.25	21.44	21.28	2.0	22.0	10.09	9.96	10.14	0.0	11.0
		1	8	21.35	21.40	21.35	2.0	22.0	10.02	9.86	10.15	0.0	11.0
		1	14	21.21	21.48	21.42	2.0	22.0	10.19	10.04	10.16	0.0	11.0
		8	0	20.31	20.28	20.26	3.0	21.0	10.03	10.03	10.09	0.0	11.0
		8	4	20.29	20.24	20.31	3.0	21.0	10.03	9.99	10.04	0.0	11.0
		8	7	20.29	20.26	20.32	3.0	21.0	10.04	10.00	10.12	0.0	11.0
		15	0	20.27	20.26	20.25	3.0	21.0	9.99	9.92	10.01	0.0	11.0
	256QAM	1	0	18.31	18.49	18.36	5.0	19.0	10.22	9.99	10.17	0.0	11.0
		1	8	18.33	18.41	18.39	5.0	19.0	10.12	9.92	10.18	0.0	11.0
		1	14	18.33	18.40	18.42	5.0	19.0	10.28	9.94	10.24	0.0	11.0
		8	0	18.25	18.23	18.34	5.0	19.0	10.04	10.03	10.07	0.0	11.0
		8	4	18.27	18.24	18.34	5.0	19.0	10.01	9.94	10.03	0.0	11.0
		8	7	18.23	18.21	18.37	5.0	19.0	10.03	9.99	10.01	0.0	11.0
		15	0	18.31	18.27	18.37	5.0	19.0	9.99	10.03	10.04	0.0	11.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26047	26365	26683			26047	26365	26683		
				1850.7 MHz	1882.5 MHz	1914.3 MHz			1850.7 MHz	1882.5 MHz	1914.3 MHz		
1.4 MHz	QPSK	1	0	23.24	23.35	22.82	0.0	24.0	10.26	10.09	10.09	0.0	11.0
		1	3	23.35	23.10	22.68	0.0	24.0	10.15	10.13	9.87	0.0	11.0
		1	5	23.26	23.38	22.56	0.0	24.0	10.27	10.07	10.10	0.0	11.0
		3	0	23.36	23.44	22.63	0.0	24.0	10.15	10.03	10.06	0.0	11.0
		3	1	23.33	23.41	22.62	0.0	24.0	10.13	10.01	10.08	0.0	11.0
		3	3	23.28	23.25	22.57	0.0	24.0	10.13	9.99	9.94	0.0	11.0
		6	0	22.28	22.37	21.91	1.0	23.0	10.19	10.02	10.09	0.0	11.0
	16QAM	1	0	22.37	22.72	22.14	1.0	23.0	10.08	10.08	10.26	0.0	11.0
		1	3	22.34	22.74	22.10	1.0	23.0	10.32	10.03	10.28	0.0	11.0
		1	5	22.44	22.76	22.02	1.0	23.0	10.17	10.12	10.30	0.0	11.0
		3	0	22.46	22.49	22.01	1.0	23.0	10.27	10.05	9.93	0.0	11.0
		3	1	22.37	22.47	22.03	1.0	23.0	10.21	9.96	10.04	0.0	11.0
		3	3	22.45	22.40	21.99	1.0	23.0	10.15	10.00	9.98	0.0	11.0
		6	0	21.40	21.33	21.38	2.0	22.0	10.20	10.09	10.12	0.0	11.0
	64QAM	1	0	21.66	21.52	21.45	2.0	22.0	10.28	9.97	10.02	0.0	11.0
		1	3	21.78	21.36	21.54	2.0	22.0	10.30	9.98	10.11	0.0	11.0
		1	5	21.62	21.47	21.44	2.0	22.0	10.23	9.90	10.11	0.0	11.0
		3	0	21.62	21.62	21.46	2.0	22.0	10.14	9.99	10.06	0.0	11.0
		3	1	21.52	21.57	21.45	2.0	22.0	10.08	9.95	10.03	0.0	11.0
		3	3	21.60	21.52	21.41	2.0	22.0	10.09	9.91	9.99	0.0	11.0
		6	0	20.42	20.54	20.49	3.0	21.0	10.08	10.08	10.18	0.0	11.0
	256QAM	1	0	18.44	18.42	18.40	5.0	19.0	9.94	10.17	10.18	0.0	11.0
		1	3	18.61	18.64	18.56	5.0	19.0	10.05	10.12	10.21	0.0	11.0
		1	5	18.40	18.39	18.39	5.0	19.0	9.94	10.23	10.23	0.0	11.0
		3	0	18.38	18.37	18.43	5.0	19.0	10.01	9.99	10.05	0.0	11.0
		3	1	18.33	18.32	18.35	5.0	19.0	9.96	9.86	9.99	0.0	11.0
		3	3	18.29	18.35	18.33	5.0	19.0	9.93	9.88	9.95	0.0	11.0
		6	0	18.38	18.37	18.42	5.0	19.0	10.07	9.88	10.09	0.0	11.0

LTE Band 26 Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)									
				DSI = 0					DSI = 1				
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26765	26865	26965			26765	26865	26965		
				821.5 MHz	831.5 MHz	841.5 MHz			821.5 MHz	831.5 MHz	841.5 MHz		
15 MHz	QPSK	1	0		24.17		0.0	25.0		14.20		0.0	15.0
		1	37		23.96		0.0	25.0		14.12		0.0	15.0
		1	74		24.04		0.0	25.0		14.05		0.0	15.0
		36	0		23.30		1.0	24.0		14.18		0.0	15.0
		36	20		23.26		1.0	24.0		14.16		0.0	15.0
		36	39		23.23		1.0	24.0		14.12		0.0	15.0
		75	0		23.26		1.0	24.0		14.16		0.0	15.0
	16QAM	1	0		23.50		1.0	24.0		14.40		0.0	15.0
		1	37		23.32		1.0	24.0		14.34		0.0	15.0
		1	74		23.33		1.0	24.0		14.29		0.0	15.0
		36	0		22.24		2.0	23.0		14.19		0.0	15.0
		36	20		22.19		2.0	23.0		14.17		0.0	15.0
		36	39		22.13		2.0	23.0		14.12		0.0	15.0
		75	0		22.22		2.0	23.0		14.16		0.0	15.0
	64QAM	1	0		22.22		2.0	23.0		14.49		0.0	15.0
		1	37		21.94		2.0	23.0		14.40		0.0	15.0
		1	74		22.08		2.0	23.0		14.31		0.0	15.0
		36	0		21.28		3.0	22.0		14.25		0.0	15.0
		36	20		21.23		3.0	22.0		14.22		0.0	15.0
		36	39		21.20		3.0	22.0		14.20		0.0	15.0
		75	0		21.19		3.0	22.0		14.16		0.0	15.0
	256QAM	1	0		19.50		5.0	20.0		14.15		0.0	15.0
		1	37		19.25		5.0	20.0		13.98		0.0	15.0
		1	74		19.31		5.0	20.0		14.03		0.0	15.0
		36	0		19.22		5.0	20.0		14.20		0.0	15.0
		36	20		19.17		5.0	20.0		14.14		0.0	15.0
		36	39		19.14		5.0	20.0		14.13		0.0	15.0
		75	0		19.19		5.0	20.0		14.13		0.0	15.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26740	26865	26990			26740	26865	26990		
				819 MHz	831.5 MHz	844 MHz			819 MHz	831.5 MHz	844 MHz		
10 MHz	QPSK	1	0	24.36	24.45	24.09	0.0	25.0	14.18	14.20	14.09	0.0	15.0
		1	25	24.32	24.47	24.01	0.0	25.0	14.12	14.19	13.94	0.0	15.0
		1	49	24.29	24.36	24.04	0.0	25.0	14.11	14.06	14.01	0.0	15.0
		25	0	23.39	23.43	23.09	1.0	24.0	14.14	14.14	14.08	0.0	15.0
		25	12	23.36	23.41	23.06	1.0	24.0	14.14	14.13	14.07	0.0	15.0
		25	25	23.32	23.38	23.04	1.0	24.0	14.09	14.09	14.03	0.0	15.0
		50	0	23.36	23.42	23.07	1.0	24.0	14.15	14.12	14.07	0.0	15.0
	16QAM	1	0	23.57	23.64	23.41	1.0	24.0	14.42	14.51	14.51	0.0	15.0
		1	25	23.69	23.69	23.40	1.0	24.0	14.44	14.55	14.47	0.0	15.0
		1	49	23.46	23.61	23.33	1.0	24.0	14.25	14.45	14.38	0.0	15.0
		25	0	22.36	22.41	22.10	2.0	23.0	14.20	14.17	14.12	0.0	15.0
		25	12	22.36	22.39	22.06	2.0	23.0	14.21	14.15	14.10	0.0	15.0
		25	25	22.34	22.38	22.04	2.0	23.0	14.17	14.12	14.05	0.0	15.0
		50	0	22.33	22.37	22.02	2.0	23.0	14.18	14.11	14.06	0.0	15.0
	64QAM	1	0	22.22	22.51	22.04	2.0	23.0	14.17	14.21	14.30	0.0	15.0
		1	25	22.30	22.54	21.95	2.0	23.0	14.14	14.19	14.22	0.0	15.0
		1	49	22.23	22.51	21.92	2.0	23.0	14.14	14.16	14.16	0.0	15.0
		25	0	21.26	21.27	21.01	3.0	22.0	14.23	14.16	14.14	0.0	15.0
		25	12	21.26	21.25	20.97	3.0	22.0	14.21	14.11	14.11	0.0	15.0
		25	25	21.22	21.22	20.95	3.0	22.0	14.18	14.10	14.08	0.0	15.0
		50	0	21.23	21.25	20.96	3.0	22.0	14.19	14.11	14.08	0.0	15.0
	256QAM	1	0	19.24	19.61	19.10	5.0	20.0	14.17	14.42	14.25	0.0	15.0
		1	25	19.07	19.35	19.12	5.0	20.0	14.09	14.25	14.22	0.0	15.0
		1	49	19.15	19.50	19.01	5.0	20.0	14.05	14.31	14.16	0.0	15.0
		25	0	19.21	19.29	19.01	5.0	20.0	14.23	14.20	14.18	0.0	15.0
		25	12	19.19	19.28	19.00	5.0	20.0	14.21	14.18	14.15	0.0	15.0
		25	25	19.15	19.24	18.94	5.0	20.0	14.17	14.14	14.11	0.0	15.0
		50	0	19.17	19.24	18.92	5.0	20.0	14.18	14.13	14.09	0.0	15.0

LTE Band 26 Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26715	26865	27015			26715	26865	27015		
				816.5 MHz	831.5 MHz	846.5 MHz			816.5 MHz	831.5 MHz	846.5 MHz		
5 MHz	QPSK	1	0	24.35	24.54	24.07	0.0	25.0	14.07	14.05	14.03	0.0	15.0
		1	12	24.37	24.56	23.96	0.0	25.0	14.03	13.91	14.00	0.0	15.0
		1	24	24.35	24.53	24.03	0.0	25.0	14.06	14.05	14.01	0.0	15.0
		12	0	23.43	23.54	23.12	1.0	24.0	14.09	14.11	14.05	0.0	15.0
		12	7	23.43	23.52	23.11	1.0	24.0	14.06	14.10	14.04	0.0	15.0
		12	13	23.39	23.50	23.08	1.0	24.0	14.04	14.09	14.02	0.0	15.0
		25	0	23.40	23.52	23.10	1.0	24.0	14.06	14.09	14.06	0.0	15.0
	16QAM	1	0	23.72	23.80	23.44	1.0	24.0	14.45	14.43	14.37	0.0	15.0
		1	12	23.71	23.74	23.28	1.0	24.0	14.27	14.13	14.28	0.0	15.0
		1	24	23.75	23.75	23.43	1.0	24.0	14.35	14.33	14.38	0.0	15.0
		12	0	22.43	22.58	22.17	2.0	23.0	14.11	14.18	14.06	0.0	15.0
		12	7	22.41	22.56	22.17	2.0	23.0	14.08	14.16	14.04	0.0	15.0
		12	13	22.39	22.57	22.17	2.0	23.0	14.10	14.15	14.02	0.0	15.0
		25	0	22.36	22.50	22.06	2.0	23.0	14.09	14.11	14.04	0.0	15.0
	64QAM	1	0	22.34	22.47	21.92	2.0	23.0	14.28	14.34	14.41	0.0	15.0
		1	12	22.33	22.37	21.87	2.0	23.0	14.19	14.30	14.25	0.0	15.0
		1	24	22.38	22.41	21.98	2.0	23.0	14.28	14.32	14.32	0.0	15.0
		12	0	21.15	21.21	20.90	3.0	22.0	14.11	14.12	14.05	0.0	15.0
		12	7	21.12	21.19	20.88	3.0	22.0	14.09	14.09	14.03	0.0	15.0
		12	13	21.14	21.19	20.88	3.0	22.0	14.08	14.11	14.02	0.0	15.0
		25	0	21.11	21.25	20.89	3.0	22.0	14.10	14.12	14.06	0.0	15.0
	256QAM	1	0	19.17	19.53	18.82	5.0	20.0	14.21	14.12	14.43	0.0	15.0
		1	12	19.12	19.45	18.62	5.0	20.0	14.03	14.04	14.32	0.0	15.0
		1	24	19.16	19.52	18.79	5.0	20.0	14.13	14.12	14.40	0.0	15.0
		12	0	19.12	19.28	18.84	5.0	20.0	14.11	14.13	14.10	0.0	15.0
		12	7	19.11	19.29	18.84	5.0	20.0	14.09	14.11	14.10	0.0	15.0
		12	13	19.11	19.25	18.81	5.0	20.0	14.08	14.11	14.07	0.0	15.0
		25	0	19.10	19.20	18.88	5.0	20.0	14.11	14.18	14.03	0.0	15.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26705	26865	27025			26705	26865	27025		
				815.5 MHz	831.5 MHz	847.5 MHz			815.5 MHz	831.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	24.39	24.46	24.18	0.0	25.0	14.12	14.03	14.11	0.0	15.0
		1	8	24.17	24.42	24.13	0.0	25.0	13.92	13.87	14.00	0.0	15.0
		1	14	24.46	24.41	24.21	0.0	25.0	14.13	13.96	14.10	0.0	15.0
		8	0	23.37	23.55	23.18	1.0	24.0	14.09	14.10	14.06	0.0	15.0
		8	4	23.39	23.52	23.15	1.0	24.0	14.02	14.10	14.02	0.0	15.0
		8	7	23.37	23.50	23.19	1.0	24.0	14.04	14.06	14.03	0.0	15.0
		15	0	23.39	23.54	23.14	1.0	24.0	14.05	14.12	14.02	0.0	15.0
	16QAM	1	0	23.45	23.71	23.40	1.0	24.0	14.19	14.47	14.45	0.0	15.0
		1	8	23.45	23.69	23.42	1.0	24.0	14.02	14.36	14.40	0.0	15.0
		1	14	23.37	23.75	23.36	1.0	24.0	14.09	14.49	14.38	0.0	15.0
		8	0	22.34	22.60	22.21	2.0	23.0	14.06	14.18	14.17	0.0	15.0
		8	4	22.35	22.57	22.17	2.0	23.0	14.06	14.17	14.15	0.0	15.0
		8	7	22.35	22.58	22.17	2.0	23.0	14.07	14.17	14.17	0.0	15.0
		15	0	22.29	22.44	22.14	2.0	23.0	14.05	14.14	14.13	0.0	15.0
	64QAM	1	0	22.33	22.28	21.98	2.0	23.0	14.33	14.26	14.06	0.0	15.0
		1	8	22.18	22.25	21.90	2.0	23.0	14.15	14.18	14.02	0.0	15.0
		1	14	22.39	22.21	22.08	2.0	23.0	14.36	14.14	14.13	0.0	15.0
		8	0	21.21	21.32	20.94	3.0	22.0	14.06	14.13	14.12	0.0	15.0
		8	4	21.18	21.30	20.94	3.0	22.0	14.04	14.15	14.05	0.0	15.0
		8	7	21.21	21.30	20.95	3.0	22.0	14.06	14.16	14.10	0.0	15.0
		15	0	21.06	21.28	20.97	3.0	22.0	14.06	14.12	14.01	0.0	15.0
	256QAM	1	0	19.58	19.35	19.09	5.0	20.0	14.33	14.28	14.20	0.0	15.0
		1	8	19.35	19.29	18.99	5.0	20.0	14.23	14.15	13.99	0.0	15.0
		1	14	19.46	19.33	19.03	5.0	20.0	14.27	14.23	14.11	0.0	15.0
		8	0	19.23	19.34	19.02	5.0	20.0	14.20	14.13	14.14	0.0	15.0
		8	4	19.16	19.33	18.95	5.0	20.0	14.15	14.15	14.12	0.0	15.0
		8	7	19.18	19.25	19.00	5.0	20.0	14.18	14.10	14.11	0.0	15.0
		15	0	19.15	19.31	18.99	5.0	20.0	14.10	14.18	14.09	0.0	15.0

LTE Band 26 Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				26697	26865	27033			26697	26865	27033		
				814.7 MHz	831.5 MHz	848.3 MHz			814.7 MHz	831.5 MHz	848.3 MHz		
1.4 MHz	QPSK	1	0	24.30	24.52	24.17	0.0	25.0	14.02	14.11	14.06	0.0	15.0
		1	3	24.15	24.58	23.98	0.0	25.0	13.99	13.87	13.86	0.0	15.0
		1	5	24.31	24.51	24.17	0.0	25.0	13.99	14.09	14.03	0.0	15.0
		3	0	24.33	24.54	24.25	0.0	25.0	13.99	14.06	13.98	0.0	15.0
		3	1	24.30	24.55	24.20	0.0	25.0	13.94	14.10	13.93	0.0	15.0
		3	3	24.30	24.47	24.06	0.0	25.0	13.93	13.93	13.94	0.0	15.0
		6	0	23.33	23.50	23.17	1.0	24.0	13.98	14.09	13.97	0.0	15.0
	16QAM	1	0	23.36	23.58	23.52	1.0	24.0	14.14	14.28	14.19	0.0	15.0
		1	3	23.56	23.56	23.56	1.0	24.0	14.19	14.40	14.33	0.0	15.0
		1	5	23.42	23.62	23.57	1.0	24.0	14.20	14.32	14.25	0.0	15.0
		3	0	23.48	23.60	23.31	1.0	24.0	14.13	14.11	14.21	0.0	15.0
		3	1	23.33	23.45	23.39	1.0	24.0	14.03	14.14	14.12	0.0	15.0
		3	3	23.35	23.54	23.32	1.0	24.0	14.14	14.12	14.08	0.0	15.0
		6	0	22.46	22.66	22.17	2.0	23.0	14.13	14.10	14.10	0.0	15.0
	64QAM	1	0	22.15	22.51	22.12	2.0	23.0	14.43	14.29	14.16	0.0	15.0
		1	3	22.10	22.55	22.27	2.0	23.0	14.37	14.34	14.12	0.0	15.0
		1	5	22.11	22.45	22.19	2.0	23.0	14.35	14.34	14.09	0.0	15.0
		3	0	22.24	22.48	21.96	2.0	23.0	14.25	14.10	14.19	0.0	15.0
		3	1	22.25	22.44	21.94	2.0	23.0	14.18	14.02	14.11	0.0	15.0
		3	3	22.21	22.37	21.89	2.0	23.0	14.13	14.10	14.09	0.0	15.0
		6	0	21.29	21.39	21.01	3.0	22.0	14.10	14.13	14.17	0.0	15.0
	256QAM	1	0	19.15	19.45	18.96	5.0	20.0	14.07	14.18	13.99	0.0	15.0
		1	3	19.05	19.56	19.12	5.0	20.0	14.09	14.22	13.88	0.0	15.0
		1	5	19.13	19.39	18.91	5.0	20.0	14.05	14.19	14.00	0.0	15.0
		3	0	19.05	19.34	19.09	5.0	20.0	13.98	14.15	14.00	0.0	15.0
		3	1	18.99	19.25	19.04	5.0	20.0	13.95	14.13	14.00	0.0	15.0
		3	3	19.00	19.20	18.98	5.0	20.0	13.91	14.09	13.97	0.0	15.0
		6	0	19.11	19.34	18.91	5.0	20.0	14.00	14.12	14.00	0.0	15.0

LTE Band 30 Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)										
				DSI = 0					DSI = 1					
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					27710					27710			
					2310 MHz					2310 MHz			
10 MHz	QPSK	1	0		22.43		0.0	23.0		12.18		0.0	13.5
		1	25		22.62		0.0	23.0		12.32		0.0	13.5
		1	49		22.52		0.0	23.0		12.23		0.0	13.5
		25	0		22.64		0.0	23.0		12.33		0.0	13.5
		25	12		22.74		0.0	23.0		12.40		0.0	13.5
		25	25		22.85		0.0	23.0		12.50		0.0	13.5
		50	0		22.75		0.0	23.0		12.42		0.0	13.5
	16QAM	1	0		22.74		0.0	23.0		12.41		0.0	13.5
		1	25		22.82		0.0	23.0		12.56		0.0	13.5
		1	49		22.17		0.0	23.0		12.66		0.0	13.5
		25	0		21.66		1.0	22.0		12.29		0.0	13.5
		25	12		21.71		1.0	22.0		12.35		0.0	13.5
		25	25		21.74		1.0	22.0		12.42		0.0	13.5
		50	0		21.68		1.0	22.0		12.41		0.0	13.5
	64QAM	1	0		21.55		1.0	22.0		12.29		0.0	13.5
		1	25		21.55		1.0	22.0		12.41		0.0	13.5
		1	49		21.68		1.0	22.0		12.55		0.0	13.5
		25	0		20.65		2.0	21.0		12.35		0.0	13.5
		25	12		20.72		2.0	21.0		12.43		0.0	13.5
		25	25		20.76		2.0	21.0		12.48		0.0	13.5
		50	0		20.69		2.0	21.0		12.40		0.0	13.5
	256QAM	1	0		18.75		4.0	19.0		12.33		0.0	13.5
		1	25		18.82		4.0	19.0		12.50		0.0	13.5
		1	49		19.05		4.0	19.0		12.63		0.0	13.5
		25	0		18.65		4.0	19.0		12.39		0.0	13.5
		25	12		18.72		4.0	19.0		12.46		0.0	13.5
		25	25		18.74		4.0	19.0		12.49		0.0	13.5
		50	0		18.65		4.0	19.0		12.38		0.0	13.5

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				27685	27710	27735			27685	27710	27735		
				2307.5 MHz	2310 MHz	2312.5 MHz			2307.5 MHz	2310 MHz	2312.5 MHz		
5 MHz	QPSK	1	0		22.45		0.0	23.0		11.94		0.0	13.5
		1	12		22.56		0.0	23.0		11.93		0.0	13.5
		1	24		22.64		0.0	23.0		12.19		0.0	13.5
		12	0		21.55		1.0	22.0		12.06		0.0	13.5
		12	7		21.58		1.0	22.0		12.12		0.0	13.5
		12	13		21.59		1.0	22.0		12.16		0.0	13.5
		25	0		21.58		1.0	22.0		12.14		0.0	13.5
	16QAM	1	0		21.77		1.0	22.0		12.36		0.0	13.5
		1	12		21.82		1.0	22.0		12.30		0.0	13.5
		1	24		21.92		1.0	22.0		12.48		0.0	13.5
		12	0		20.59		2.0	21.0		12.15		0.0	13.5
		12	7		20.61		2.0	21.0		12.21		0.0	13.5
		12	13		20.63		2.0	21.0		12.21		0.0	13.5
		25	0		20.61		2.0	21.0		12.13		0.0	13.5
	64QAM	1	0		20.42		2.0	21.0		12.23		0.0	13.5
		1	12		20.51		2.0	21.0		12.30		0.0	13.5
		1	24		20.62		2.0	21.0		12.40		0.0	13.5
		12	0		19.49		3.0	20.0		12.04		0.0	13.5
		12	7		19.54		3.0	20.0		12.10		0.0	13.5
		12	13		19.56		3.0	20.0		12.14		0.0	13.5
		25	0		19.57		3.0	20.0		12.15		0.0	13.5
	256QAM	1	0		18.45		4.0	19.0		11.99		0.0	13.5
		1	12		18.46		4.0	19.0		11.96		0.0	13.5
		1	24		18.41		4.0	19.0		12.14		0.0	13.5
		12	0		18.44		4.0	19.0		12.09		0.0	13.5
		12	7		18.48		4.0	19.0		12.15		0.0	13.5
		12	13		18.49		4.0	19.0		12.14		0.0	13.5
		25	0		18.43		4.0	19.0		12.12		0.0	13.5

LTE Band 41 Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)														
				DSI = 0							DSI = 1							
				Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
				39750	40185	40620	41055	41490			39750	40185	40620	41055	41490		
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	QPSK	1	0	24.01	24.16	24.72	23.99	24.54	0.0	25.0	13.05	13.73	14.25	13.64	13.73	0.0	15.0
		1	49	24.11	24.11	24.67	23.92	24.55	0.0	25.0	13.17	13.78	14.24	13.67	13.90	0.0	15.0
		1	99	24.12	24.17	24.64	24.01	24.57	0.0	25.0	13.18	13.63	14.23	13.53	13.81	0.0	15.0
		50	0	23.03	23.17	23.66	23.06	23.52	1.0	24.0	13.10	13.71	14.28	13.66	13.82	0.0	15.0
		50	24	23.06	23.16	23.64	23.07	23.52	1.0	24.0	13.14	13.68	14.25	13.66	13.83	0.0	15.0
		50	50	23.07	23.13	23.61	23.04	23.51	1.0	24.0	13.15	13.67	14.22	13.63	13.82	0.0	15.0
		100	0	23.07	23.11	23.65	23.02	23.51	1.0	24.0	13.11	13.68	14.27	13.65	13.83	0.0	15.0
	16QAM	1	0	22.93	23.01	23.76	22.71	23.33	1.0	24.0	13.40	13.52	14.10	13.62	13.67	0.0	15.0
		1	49	23.34	23.21	23.70	22.50	23.46	1.0	24.0	13.48	13.86	14.17	13.77	14.12	0.0	15.0
		1	99	23.47	23.01	23.75	22.73	23.37	1.0	24.0	13.21	13.70	14.36	13.52	13.73	0.0	15.0
		50	0	21.97	22.69	22.62	21.48	22.44	2.0	23.0	13.11	13.75	14.26	13.64	13.82	0.0	15.0
		50	24	21.99	22.12	22.59	21.45	22.48	2.0	23.0	13.13	13.71	14.24	13.65	13.85	0.0	15.0
		50	50	22.00	22.09	22.54	21.44	22.46	2.0	23.0	13.14	13.69	14.29	13.67	13.81	0.0	15.0
		100	0	21.99	22.10	22.59	21.48	22.45	2.0	23.0	13.10	13.71	14.24	13.65	13.83	0.0	15.0
	64QAM	1	0	22.00	22.75	22.29	21.47	22.28	2.0	23.0	12.76	13.78	14.45	13.81	14.14	0.0	15.0
		1	49	22.32	22.25	22.30	21.43	22.06	2.0	23.0	13.02	13.28	14.03	13.34	13.72	0.0	15.0
		1	99	21.94	22.56	22.37	21.42	22.04	2.0	23.0	13.19	13.93	14.44	13.57	14.16	0.0	15.0
		50	0	21.04	21.78	21.58	20.49	21.45	3.0	22.0	13.09	13.76	14.31	13.63	13.81	0.0	15.0
		50	24	21.03	21.77	21.57	20.46	21.43	3.0	22.0	13.12	13.73	14.29	13.66	13.83	0.0	15.0
		50	50	21.07	21.77	21.54	20.46	21.43	3.0	22.0	13.15	13.72	14.28	13.61	13.87	0.0	15.0
		100	0	20.98	21.77	21.54	20.41	21.45	3.0	22.0	13.10	13.73	14.30	13.63	13.83	0.0	15.0
	256QAM	1	0	19.01	19.61	19.89	18.43	19.46	5.0	20.0	13.14	13.59	14.19	13.77	14.08	0.0	15.0
		1	49	19.31	19.59	19.50	18.38	19.38	5.0	20.0	13.22	13.58	14.28	13.93	14.25	0.0	15.0
		1	99	18.94	19.58	19.40	18.32	19.45	5.0	20.0	13.27	13.76	14.40	13.81	14.06	0.0	15.0
		50	0	18.99	19.77	19.52	18.45	19.44	5.0	20.0	13.13	13.74	14.31	13.63	13.86	0.0	15.0
		50	24	19.01	19.75	19.50	18.44	19.44	5.0	20.0	13.17	13.73	14.30	13.66	13.87	0.0	15.0
		50	50	19.03	19.76	19.48	18.44	19.42	5.0	20.0	13.16	13.72	14.26	13.62	13.85	0.0	15.0
		100	0	18.99	19.76	19.51	18.44	19.41	5.0	20.0	13.14	13.74	14.28	13.66	13.83	0.0	15.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
				39750	40185	40620	41055	41490			39750	40185	40620	41055	41490		
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
15 MHz	QPSK	1	0	24.39	24.40	24.47	22.82	23.01	0.0	25.0	12.75	13.31	14.27	13.29	13.85	0.0	15.0
		1	37	24.53	24.50	24.05	22.90	23.00	0.0	25.0	12.84	13.11	14.36	13.23	13.57	0.0	15.0
		1	74	24.55	24.41	23.89	22.94	23.00	0.0	25.0	12.85	13.25	14.21	13.29	13.74	0.0	15.0
		36	0	23.54	23.47	22.94	21.96	21.96	1.0	24.0	12.81	13.27	14.22	13.33	13.82	0.0	15.0
		36	20	23.57	23.44	22.92	21.94	21.99	1.0	24.0	12.80	13.28	14.21	13.33	13.82	0.0	15.0
		36	39	23.57	23.41	22.91	21.94	21.96	1.0	24.0	12.84	13.29	14.19	13.31	13.82	0.0	15.0
		75	0	23.57	23.43	22.90	21.95	21.98	1.0	24.0	12.81	13.28	14.19	13.32	13.82	0.0	15.0
	16QAM	1	0	23.46	23.13	22.69	22.03	21.59	1.0	24.0	12.61	13.41	14.20	13.37	13.60	0.0	15.0
		1	37	23.37	22.78	22.48	21.68	21.67	1.0	24.0	12.87	13.23	14.20	13.55	13.77	0.0	15.0
		1	74	23.64	23.20	22.76	21.94	22.00	1.0	24.0	12.90	13.46	14.16	13.31	13.73	0.0	15.0
		36	0	22.43	22.31	21.85	20.96	20.89	2.0	23.0	12.88	13.32	14.19	13.36	13.79	0.0	15.0
		36	20	22.46	22.33	21.83	20.90	20.91	2.0	23.0	12.84	13.31	14.21	13.35	13.79	0.0	15.0
		36	39	22.50	22.34	21.81	20.94	20.89	2.0	23.0	12.89	13.29	14.17	13.34	13.82	0.0	15.0
		75	0	22.44	22.34	21.87	20.87	20.85	2.0	23.0	12.79	13.26	14.21	13.30	13.81	0.0	15.0
	64QAM	1	0	20.77	20.77	21.83	22.11	22.41	2.0	23.0	12.62	13.19	14.25	13.28	13.86	0.0	15.0
		1	37	20.85	20.65	21.36	22.12	22.17	2.0	23.0	12.66	13.35	14.29	13.27	13.52	0.0	15.0
		1	74	20.57	20.68	21.73	22.05	22.42	2.0	23.0	12.93	13.22	14.23	13.05	13.84	0.0	15.0
		36	0	19.61	19.82	20.80	21.26	21.58	3.0	22.0	12.84	13.25	14.22	13.35	13.74	0.0	15.0
		36	20	19.61	19.81	20.75	21.17	21.62	3.0	22.0	12.84	13.22	14.19	13.28	13.69	0.0	15.0
		36	39	19.64	19.85	20.76	21.27	21.66	3.0	22.0	12.87	13.19	14.15	13.30	13.76	0.0	15.0
		75	0	19.65	19.81	20.76	21.26	21.57	3.0	22.0	12.81	13.26	14.17	13.26	13.76	0.0	15.0
	256QAM	1	0	17.89	17.77	18.63	19.31	19.66	5.0	20.0	12.65	13.19	13.91	13.05	13.91	0.0	15.0
		1	37	17.57	17.96	18.51	19.20	19.73	5.0	20.0	12.70	13.43	13.58	13.36	14.18	0.0	15.0
		1	74	17.93	17.76	18.54	19.49	19.78	5.0	20.0	12.51	13.27	13.55	13.35	14.05	0.0	15.0
		36	0	17.56	17.80	18.70	19.23	19.52	5.0	20.0	12.82	13.24	14.18	13.33	13.77	0.0	15.0
		36	20	17.54	17.80	18.69	19.19	19.55	5.0	20.0	12.84	13.26	14.15	13.31	13.75	0.0	15.0
		36	39	17.58	17.76	18.67	19.20	19.58	5.0	20.0	12.83	13.23	14.15	13.29	13.75	0.0	15.0
		75	0	17.60	17.79	18.68	19.22	19.53	5.0	20.0	12.82	13.26	14.15	13.28	13.80	0.0	15.0

LTE Band 41 Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
				39750	40185	40620	41055	41490			39750	40185	40620	41055	41490		
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
10 MHz	QPSK	1	0	24.46	24.33	24.47	22.88	22.90	0.0	25.0	12.82	13.32	14.18	13.33	13.84	0.0	15.0
		1	25	24.41	24.46	23.98	22.88	23.03	0.0	25.0	12.88	13.34	14.17	13.28	13.75	0.0	15.0
		1	49	24.53	24.36	23.82	22.87	22.99	0.0	25.0	12.82	13.25	14.10	13.32	13.78	0.0	15.0
		25	0	23.44	23.30	22.82	21.85	21.90	1.0	24.0	12.81	13.30	14.17	13.31	13.79	0.0	15.0
		25	12	23.47	23.30	22.81	21.85	21.91	1.0	24.0	12.84	13.30	14.17	13.31	13.79	0.0	15.0
		25	25	23.45	23.27	22.79	21.84	21.89	1.0	24.0	12.84	13.31	14.15	13.29	13.75	0.0	15.0
		50	0	23.43	23.28	22.80	21.84	21.90	1.0	24.0	12.83	13.30	14.16	13.30	13.79	0.0	15.0
	16QAM	1	0	23.38	23.22	22.59	21.96	21.83	1.0	24.0	12.91	13.36	14.29	13.34	13.56	0.0	15.0
		1	25	23.60	23.31	22.81	22.19	22.00	1.0	24.0	12.84	13.30	14.26	13.29	13.36	0.0	15.0
		1	49	23.51	23.16	22.58	22.00	21.83	1.0	24.0	12.99	13.38	14.28	13.29	13.56	0.0	15.0
		25	0	22.33	22.24	21.70	20.81	20.86	2.0	23.0	12.81	13.31	14.17	13.29	13.73	0.0	15.0
		25	12	22.35	22.22	21.68	20.80	20.86	2.0	23.0	12.84	13.30	14.16	13.27	13.73	0.0	15.0
		25	25	22.35	22.23	21.64	20.77	20.85	2.0	23.0	12.82	13.29	14.13	13.27	13.72	0.0	15.0
		50	0	22.37	22.25	21.75	20.83	20.86	2.0	23.0	12.86	13.31	14.18	13.29	13.72	0.0	15.0
	64QAM	1	0	20.65	20.81	21.71	22.16	22.49	2.0	23.0	12.70	13.11	14.29	13.27	13.69	0.0	15.0
		1	25	20.83	20.99	21.53	22.31	22.71	2.0	23.0	12.73	13.16	14.21	13.17	13.74	0.0	15.0
		1	49	20.70	20.82	21.76	22.15	22.59	2.0	23.0	12.76	13.14	14.22	13.22	13.71	0.0	15.0
		25	0	19.65	19.78	20.70	21.25	21.49	3.0	22.0	12.82	13.20	14.17	13.29	13.69	0.0	15.0
		25	12	19.64	19.78	20.64	21.22	21.52	3.0	22.0	12.84	13.20	14.16	13.28	13.69	0.0	15.0
		25	25	19.65	19.79	20.65	21.23	21.54	3.0	22.0	12.85	13.19	14.14	13.27	13.68	0.0	15.0
		50	0	19.64	19.78	20.70	21.21	21.53	3.0	22.0	12.78	13.25	14.14	13.22	13.71	0.0	15.0
	256QAM	1	0	17.63	17.69	18.63	19.30	19.47	5.0	20.0	12.76	13.20	13.99	13.18	13.63	0.0	15.0
		1	25	17.50	17.64	18.72	19.17	19.38	5.0	20.0	12.84	13.08	13.97	13.18	13.49	0.0	15.0
		1	49	17.64	17.66	18.53	19.24	19.53	5.0	20.0	12.80	13.16	13.96	13.18	13.58	0.0	15.0
		25	0	17.62	17.77	18.72	19.24	19.51	5.0	20.0	12.79	13.23	14.20	13.29	13.73	0.0	15.0
		25	12	17.61	17.76	18.70	19.21	19.53	5.0	20.0	12.82	13.24	14.19	13.28	13.72	0.0	15.0
		25	25	17.62	17.76	18.68	19.20	19.55	5.0	20.0	12.81	13.25	14.16	13.26	13.72	0.0	15.0
		50	0	17.63	17.73	18.69	19.22	19.50	5.0	20.0	12.82	13.26	14.14	13.30	13.73	0.0	15.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
				39750	40185	40620	41055	41490			39750	40185	40620	41055	41490		
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
5 MHz	QPSK	1	0	24.32	24.33	24.47	22.85	22.92	0.0	25.0	12.76	13.26	14.18	13.32	13.77	0.0	15.0
		1	12	24.31	24.23	23.88	22.87	22.81	0.0	25.0	12.82	13.30	14.18	13.29	13.71	0.0	15.0
		1	24	24.43	24.32	23.83	22.86	22.93	0.0	25.0	12.79	13.21	14.13	13.27	13.72	0.0	15.0
		12	0	23.38	23.31	22.82	21.84	21.90	1.0	24.0	12.77	13.25	14.15	13.28	13.76	0.0	15.0
		12	7	23.41	23.30	22.83	21.84	21.91	1.0	24.0	12.77	13.24	14.14	13.26	13.76	0.0	15.0
		12	13	23.38	23.28	22.77	21.82	21.90	1.0	24.0	12.80	13.25	14.14	13.28	13.76	0.0	15.0
		25	0	23.39	23.28	22.79	21.83	21.87	1.0	24.0	12.80	13.26	14.15	13.29	13.77	0.0	15.0
	16QAM	1	0	23.33	23.17	22.84	21.84	21.72	1.0	24.0	12.58	13.41	14.18	13.13	13.80	0.0	15.0
		1	12	23.23	22.95	22.65	21.76	21.55	1.0	24.0	12.84	13.64	14.33	13.23	14.01	0.0	15.0
		1	24	23.36	23.20	22.86	21.80	21.76	1.0	24.0	12.67	13.46	14.14	13.17	13.83	0.0	15.0
		12	0	22.39	22.21	21.73	20.84	20.85	2.0	23.0	12.75	13.23	14.20	13.25	13.73	0.0	15.0
		12	7	22.39	22.18	21.71	20.84	20.82	2.0	23.0	12.75	13.22	14.18	13.23	13.72	0.0	15.0
		12	13	22.39	22.19	21.70	20.81	20.82	2.0	23.0	12.78	13.23	14.17	13.26	13.72	0.0	15.0
		25	0	22.33	22.21	21.73	20.79	20.84	2.0	23.0	12.79	13.27	14.16	13.27	13.75	0.0	15.0
	64QAM	1	0	20.57	20.81	21.78	22.16	22.61	2.0	23.0	12.80	13.43	14.22	13.28	13.74	0.0	15.0
		1	12	20.59	20.87	21.67	22.08	22.75	2.0	23.0	12.98	13.41	13.94	13.48	13.68	0.0	15.0
		1	24	20.59	20.92	21.75	22.08	22.76	2.0	23.0	12.86	13.34	14.14	13.32	13.68	0.0	15.0
		12	0	19.54	19.80	20.75	21.25	21.59	3.0	22.0	12.76	13.23	14.17	13.26	13.70	0.0	15.0
		12	7	19.56	19.80	20.72	21.24	21.59	3.0	22.0	12.76	13.21	14.16	13.25	13.70	0.0	15.0
		12	13	19.57	19.79	20.73	21.22	21.59	3.0	22.0	12.79	13.23	14.16	13.25	13.70	0.0	15.0
		25	0	19.59	19.74	20.62	21.24	21.50	3.0	22.0	12.78	13.27	14.07	13.24	13.72	0.0	15.0
	256QAM	1	0	17.61	17.74	18.86	19.37	19.46	5.0	20.0	12.74	13.33	14.28	13.10	13.75	0.0	15.0
		1	12	17.54	17.55	18.79	19.26	19.33	5.0	20.0	12.62	13.24	14.25	12.94	13.54	0.0	15.0
		1	24	17.65	17.72	18.81	19.30	19.49	5.0	20.0	12.79	13.33	14.28	13.07	13.73	0.0	15.0
		12	0	17.55	17.73	18.72	19.20	19.52	5.0	20.0	12.79	13.22	14.14	13.26	13.68	0.0	15.0
		12	7	17.54	17.72	18.73	19.22	19.50	5.0	20.0	12.77	13.22	14.12	13.23	13.67	0.0	15.0
		12	13	17.50	17.71	18.70	19.18	19.48	5.0	20.0	12.81	13.22	14.13	13.26	13.67	0.0	15.0
		25	0	17.53	17.70	18.64	19.16	19.45	5.0	20.0	12.76	13.20	14.11	13.21	13.66	0.0	15.0

LTE Band 66 (Main.1) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)									
				DSI = 0					DSI = 1				
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				132072	132322	132572			132072	132322	132572		
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	22.59	23.31	23.15	0.0	24.5	12.09	12.35	12.18	0.0	13
		1	49	22.37	23.20	23.17	0.0	24.5	11.79	12.13	12.31	0.0	13
		1	99	23.28	23.23	23.03	0.0	24.5	11.98	12.00	12.12	0.0	13
		50	0	21.07	22.36	22.43	1.0	23.5	12.06	12.05	12.14	0.0	13
		50	24	21.56	22.51	22.50	1.0	23.5	12.04	12.21	12.11	0.0	13
		50	50	22.03	22.41	22.34	1.0	23.5	12.03	11.99	12.08	0.0	13
		100	0	21.57	22.38	22.44	1.0	23.5	12.05	12.04	12.12	0.0	13
	16QAM	1	0	22.51	22.37	22.58	1.0	23.5	12.44	12.25	12.52	0.0	13
		1	49	21.81	22.51	22.80	1.0	23.5	12.08	12.17	12.18	0.0	13
		1	99	22.73	22.55	22.59	1.0	23.5	12.41	12.12	12.40	0.0	13
		50	0	20.37	21.68	21.82	2.0	22.5	12.07	12.05	12.12	0.0	13
		50	24	20.90	21.67	21.80	2.0	22.5	12.05	12.01	12.09	0.0	13
		50	50	21.39	21.66	21.80	2.0	22.5	12.03	11.99	12.07	0.0	13
		100	0	20.98	21.66	21.83	2.0	22.5	12.06	12.02	12.12	0.0	13
	64QAM	1	0	20.70	21.49	21.82	2.0	22.5	12.20	11.85	11.63	0.0	13
		1	49	21.45	21.73	21.81	2.0	22.5	12.41	12.03	11.49	0.0	13
		1	99	21.74	21.54	21.87	2.0	22.5	12.20	11.79	11.56	0.0	13
		50	0	20.00	20.56	20.68	3.0	21.5	11.93	11.74	11.73	0.0	13
		50	24	20.50	20.59	20.65	3.0	21.5	11.91	11.73	11.72	0.0	13
		50	50	20.51	20.59	20.67	3.0	21.5	11.90	11.71	11.69	0.0	13
		100	0	20.48	20.54	20.63	3.0	21.5	11.91	11.71	11.72	0.0	13
	256QAM	1	0	18.05	18.58	18.90	5.0	19.5	12.05	12.00	11.76	0.0	13
		1	49	18.73	18.61	18.76	5.0	19.5	12.11	12.22	11.99	0.0	13
		1	99	18.57	18.57	18.87	5.0	19.5	12.02	11.98	11.69	0.0	13
		50	0	18.40	18.46	18.60	5.0	19.5	11.89	11.72	11.69	0.0	13
		50	24	18.39	18.45	18.58	5.0	19.5	11.87	11.73	11.66	0.0	13
		50	50	18.37	18.46	18.57	5.0	19.5	11.86	11.69	11.66	0.0	13
		100	0	18.35	18.47	18.55	5.0	19.5	11.86	11.71	11.69	0.0	13
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				132047	132322	132597			132047	132322	132597		
				1717.5 MHz	1745 MHz	1772.5 MHz			1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	QPSK	1	0	23.42	23.04	23.35	0.0	24.5	12.73	12.63	12.57	0.0	13
		1	37	22.05	23.20	23.24	0.0	24.5	12.51	12.57	12.52	0.0	13
		1	74	22.51	22.87	22.91	0.0	24.5	12.65	12.59	12.49	0.0	13
		36	0	21.05	22.53	22.63	1.0	23.5	12.70	12.70	12.58	0.0	13
		36	20	21.47	22.53	22.60	1.0	23.5	12.69	12.68	12.56	0.0	13
		36	39	21.76	22.53	22.50	1.0	23.5	12.68	12.66	12.54	0.0	13
		75	0	21.46	22.53	22.60	1.0	23.5	12.69	12.67	12.57	0.0	13
	16QAM	1	0	21.10	22.66	22.85	1.0	23.5	12.74	12.78	12.82	0.0	13
		1	37	21.72	22.67	22.75	1.0	23.5	12.82	12.77	12.77	0.0	13
		1	74	22.19	22.65	22.68	1.0	23.5	12.82	12.81	12.82	0.0	13
		36	0	20.32	21.54	21.60	2.0	22.5	12.72	12.71	12.60	0.0	13
		36	20	20.78	21.51	21.56	2.0	22.5	12.68	12.66	12.58	0.0	13
		36	39	21.09	21.47	21.54	2.0	22.5	12.66	12.67	12.58	0.0	13
		75	0	20.79	21.47	21.56	2.0	22.5	12.68	12.68	12.55	0.0	13
	64QAM	1	0	20.21	21.59	21.48	2.0	22.5	12.67	12.81	12.64	0.0	13
		1	37	21.00	21.24	21.38	2.0	22.5	12.46	12.73	12.51	0.0	13
		1	74	21.40	21.54	21.45	2.0	22.5	12.67	12.78	12.54	0.0	13
		36	0	19.77	20.47	20.53	3.0	21.5	12.60	12.78	12.62	0.0	13
		36	20	20.25	20.44	20.52	3.0	21.5	12.57	12.74	12.61	0.0	13
		36	39	20.24	20.42	20.51	3.0	21.5	12.58	12.73	12.59	0.0	13
		75	0	20.28	20.38	20.46	3.0	21.5	12.60	12.67	12.55	0.0	13
	256QAM	1	0	18.01	18.67	18.38	5.0	19.5	12.70	12.82	12.50	0.0	13
		1	37	18.27	18.54	18.29	5.0	19.5	12.62	12.72	12.45	0.0	13
		1	74	18.27	18.63	18.29	5.0	19.5	12.65	12.76	12.42	0.0	13
		36	0	18.18	18.35	18.35	5.0	19.5	12.60	12.75	12.57	0.0	13
		36	20	18.14	18.34	18.33	5.0	19.5	12.57	12.73	12.55	0.0	13
		36	39	18.13	18.30	18.33	5.0	19.5	12.55	12.69	12.53	0.0	13
		75	0	18.17	18.30	18.34	5.0	19.5	12.58	12.72	12.53	0.0	13

LTE Band 66 (Main.1) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				132022	132322	132622			132022	132322	132622		
				1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	22.45	23.39	23.37	0.0	24.5	12.68	12.73	12.66	0.0	13
		1	25	22.31	23.30	23.19	0.0	24.5	12.72	12.81	12.47	0.0	13
		1	49	22.36	23.25	23.33	0.0	24.5	12.66	12.64	12.65	0.0	13
		25	0	21.18	22.50	22.52	1.0	23.5	12.69	12.65	12.61	0.0	13
		25	12	21.40	22.50	22.50	1.0	23.5	12.67	12.64	12.59	0.0	13
		25	25	21.61	22.48	22.47	1.0	23.5	12.66	12.62	12.58	0.0	13
		50	0	21.44	22.50	22.49	1.0	23.5	12.67	12.64	12.57	0.0	13
	16QAM	1	0	21.25	22.74	22.84	1.0	23.5	12.83	12.71	12.72	0.0	13
		1	25	21.56	22.77	22.85	1.0	23.5	12.77	12.78	12.46	0.0	13
		1	49	21.97	22.76	22.76	1.0	23.5	12.73	12.69	12.81	0.0	13
		25	0	20.51	21.51	21.53	2.0	22.5	12.68	12.67	12.62	0.0	13
		25	12	20.75	21.49	21.50	2.0	22.5	12.64	12.65	12.60	0.0	13
		25	25	20.99	21.47	21.48	2.0	22.5	12.65	12.64	12.58	0.0	13
		50	0	20.79	21.43	21.44	2.0	22.5	12.68	12.63	12.56	0.0	13
	64QAM	1	0	20.25	21.32	21.12	2.0	22.5	12.79	12.57	12.82	0.0	13
		1	25	20.54	21.41	21.28	2.0	22.5	12.81	12.63	12.71	0.0	13
		1	49	20.92	21.41	21.22	2.0	22.5	12.69	12.55	12.82	0.0	13
		25	0	19.59	20.13	20.16	3.0	21.5	12.63	12.28	12.63	0.0	13
		25	12	19.83	20.11	20.15	3.0	21.5	12.61	12.24	12.62	0.0	13
		25	25	19.97	20.13	20.13	3.0	21.5	12.61	12.25	12.59	0.0	13
		50	0	19.84	20.09	20.14	3.0	21.5	12.59	12.26	12.60	0.0	13
	256QAM	1	0	17.88	18.37	18.12	5.0	19.5	12.58	12.56	12.52	0.0	13
		1	25	17.95	18.31	17.99	5.0	19.5	12.66	12.52	12.49	0.0	13
		1	49	17.91	18.33	18.02	5.0	19.5	12.58	12.53	12.44	0.0	13
		25	0	17.95	18.08	18.06	5.0	19.5	12.68	12.32	12.63	0.0	13
		25	12	17.95	18.07	18.05	5.0	19.5	12.66	12.29	12.60	0.0	13
		25	25	17.91	18.04	18.04	5.0	19.5	12.63	12.26	12.59	0.0	13
		50	0	17.87	18.02	18.03	5.0	19.5	12.59	12.25	12.57	0.0	13
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				131997	132322	132647			131997	132322	132647		
				1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	22.93	23.50	23.40	0.0	24.5	12.72	12.56	12.56	0.0	13
		1	12	22.98	23.52	23.29	0.0	24.5	12.74	12.37	12.57	0.0	13
		1	24	22.99	23.54	23.45	0.0	24.5	12.73	12.58	12.57	0.0	13
		12	0	22.27	22.54	22.48	1.0	23.5	12.73	12.64	12.64	0.0	13
		12	7	22.35	22.52	22.47	1.0	23.5	12.73	12.64	12.64	0.0	13
		12	13	22.36	22.49	22.44	1.0	23.5	12.72	12.63	12.62	0.0	13
		25	0	22.33	22.52	22.48	1.0	23.5	12.72	12.64	12.65	0.0	13
	16QAM	1	0	22.46	22.70	22.86	1.0	23.5	12.67	12.64	12.57	0.0	13
		1	12	22.60	22.61	22.70	1.0	23.5	12.78	12.71	12.67	0.0	13
		1	24	22.68	22.66	22.79	1.0	23.5	12.77	12.78	12.77	0.0	13
		12	0	21.50	21.54	21.50	2.0	22.5	12.73	12.73	12.62	0.0	13
		12	7	21.47	21.52	21.46	2.0	22.5	12.71	12.73	12.62	0.0	13
		12	13	21.48	21.53	21.47	2.0	22.5	12.74	12.71	12.60	0.0	13
		25	0	21.48	21.48	21.45	2.0	22.5	12.69	12.67	12.61	0.0	13
	64QAM	1	0	21.02	21.33	21.33	2.0	22.5	12.71	12.61	12.69	0.0	13
		1	12	21.03	21.25	21.37	2.0	22.5	12.61	12.49	12.65	0.0	13
		1	24	21.10	21.35	21.43	2.0	22.5	12.70	12.54	12.71	0.0	13
		12	0	20.01	20.10	20.16	3.0	21.5	12.62	12.23	12.68	0.0	13
		12	7	20.00	20.09	20.15	3.0	21.5	12.62	12.22	12.66	0.0	13
		12	13	19.99	20.10	20.14	3.0	21.5	12.60	12.22	12.68	0.0	13
		25	0	20.03	20.11	20.10	3.0	21.5	12.61	12.23	12.66	0.0	13
	256QAM	1	0	18.08	18.34	18.09	5.0	19.5	12.70	12.61	12.65	0.0	13
		1	12	17.83	18.11	18.01	5.0	19.5	12.55	12.50	12.62	0.0	13
		1	24	17.99	18.30	18.06	5.0	19.5	12.69	12.57	12.60	0.0	13
		12	0	17.94	18.08	18.09	5.0	19.5	12.61	12.30	12.64	0.0	13
		12	7	17.91	18.07	18.07	5.0	19.5	12.61	12.29	12.64	0.0	13
		12	13	17.90	18.03	18.07	5.0	19.5	12.58	12.26	12.64	0.0	13
		25	0	17.91	17.99	18.05	5.0	19.5	12.58	12.18	12.68	0.0	13

LTE Band 66 (Main.1) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				131987	132322	132657			131987	132322	132657		
				1711.5 MHz	1745 MHz	1778.5 MHz			1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	22.98	23.19	23.06	0.0	24.5	12.81	12.57	12.71	0.0	13
		1	8	22.45	23.13	23.14	0.0	24.5	12.48	12.50	12.66	0.0	13
		1	14	22.41	23.10	23.21	0.0	24.5	12.82	12.53	12.72	0.0	13
		8	0	21.14	22.49	22.36	1.0	23.5	12.75	12.63	12.68	0.0	13
		8	4	21.20	22.51	22.44	1.0	23.5	12.74	12.64	12.66	0.0	13
		8	7	21.23	22.51	22.48	1.0	23.5	12.77	12.65	12.70	0.0	13
		15	0	21.23	22.52	22.44	1.0	23.5	12.73	12.65	12.61	0.0	13
	16QAM	1	0	21.30	22.78	22.55	1.0	23.5	12.71	12.78	12.83	0.0	13
		1	8	21.40	22.77	22.65	1.0	23.5	12.82	12.84	12.81	0.0	13
		1	14	21.40	22.81	22.62	1.0	23.5	12.85	12.77	12.79	0.0	13
		8	0	20.45	21.57	21.53	2.0	22.5	12.71	12.70	12.76	0.0	13
		8	4	20.54	21.58	21.46	2.0	22.5	12.78	12.70	12.72	0.0	13
		8	7	20.57	21.53	21.45	2.0	22.5	12.78	12.71	12.73	0.0	13
		15	0	20.55	21.52	21.41	2.0	22.5	12.73	12.72	12.66	0.0	13
	64QAM	1	0	21.70	21.50	21.36	2.0	22.5	12.79	12.54	12.55	0.0	13
		1	8	21.54	21.46	21.34	2.0	22.5	12.77	12.44	12.54	0.0	13
		1	14	21.83	21.62	21.33	2.0	22.5	12.73	12.56	12.60	0.0	13
		8	0	20.49	20.51	20.34	3.0	21.5	12.74	12.36	12.48	0.0	13
		8	4	20.51	20.45	20.33	3.0	21.5	12.71	12.34	12.42	0.0	13
		8	7	20.50	20.49	20.35	3.0	21.5	12.71	12.36	12.46	0.0	13
		15	0	20.42	20.48	20.34	3.0	21.5	12.68	12.31	12.35	0.0	13
	256QAM	1	0	18.88	18.41	18.49	5.0	19.5	12.69	12.56	12.55	0.0	13
		1	8	18.73	18.32	18.34	5.0	19.5	12.64	12.45	12.48	0.0	13
		1	14	18.81	18.36	18.44	5.0	19.5	12.67	12.57	12.50	0.0	13
		8	0	18.52	18.49	18.29	5.0	19.5	12.64	12.36	12.45	0.0	13
		8	4	18.46	18.41	18.26	5.0	19.5	12.64	12.29	12.46	0.0	13
		8	7	18.50	18.45	18.18	5.0	19.5	12.61	12.34	12.47	0.0	13
		15	0	18.40	18.40	18.31	5.0	19.5	12.68	12.33	12.45	0.0	13
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				131979	132322	132665			131979	132322	132665		
				1710.7 MHz	1745 MHz	1779.3 MHz			1710.7 MHz	1745 MHz	1779.3 MHz		
1.4 MHz	QPSK	1	0	22.16	23.52	23.46	0.0	24.5	12.75	12.67	12.65	0.0	13
		1	3	22.14	23.41	23.26	0.0	24.5	12.47	12.50	12.69	0.0	13
		1	5	22.16	23.42	23.46	0.0	24.5	12.75	12.65	12.62	0.0	13
		3	0	22.08	23.33	23.31	0.0	24.5	12.71	12.59	12.61	0.0	13
		3	1	22.09	23.34	23.33	0.0	24.5	12.71	12.55	12.57	0.0	13
		3	3	22.09	23.34	23.34	0.0	24.5	12.65	12.57	12.44	0.0	13
		6	0	21.50	22.56	22.53	1.0	23.5	12.77	12.57	12.61	0.0	13
	16QAM	1	0	21.58	22.61	22.70	1.0	23.5	12.73	12.63	12.61	0.0	13
		1	3	21.59	22.51	22.81	1.0	23.5	12.74	12.83	12.46	0.0	13
		1	5	21.64	22.65	22.71	1.0	23.5	12.73	12.69	12.65	0.0	13
		3	0	21.55	22.53	22.36	1.0	23.5	12.77	12.81	12.76	0.0	13
		3	1	21.59	22.40	22.43	1.0	23.5	12.82	12.74	12.64	0.0	13
		3	3	21.57	22.51	22.36	1.0	23.5	12.75	12.71	12.72	0.0	13
		6	0	20.79	21.63	21.46	2.0	22.5	12.77	12.64	12.75	0.0	13
	64QAM	1	0	21.69	21.57	21.32	2.0	22.5	12.57	12.43	12.43	0.0	13
		1	3	21.63	21.61	21.46	2.0	22.5	12.52	12.41	12.53	0.0	13
		1	5	21.69	21.56	21.44	2.0	22.5	12.51	12.37	12.50	0.0	13
		3	0	21.51	21.45	21.30	2.0	22.5	12.47	12.38	12.38	0.0	13
		3	1	21.51	21.45	21.28	2.0	22.5	12.44	12.36	12.38	0.0	13
		3	3	21.53	21.42	21.35	2.0	22.5	12.44	12.31	12.36	0.0	13
		6	0	20.55	20.50	20.38	3.0	21.5	12.22	12.27	12.39	0.0	13
	256QAM	1	0	18.53	18.36	18.40	5.0	19.5	12.40	12.34	12.41	0.0	13
		1	3	18.50	18.23	18.38	5.0	19.5	12.48	12.40	12.51	0.0	13
		1	5	18.48	18.31	18.30	5.0	19.5	12.43	12.33	12.40	0.0	13
		3	0	18.30	18.28	18.34	5.0	19.5	12.25	12.34	12.42	0.0	13
		3	1	18.24	18.20	18.26	5.0	19.5	12.24	12.33	12.40	0.0	13
		3	3	18.16	18.17	18.21	5.0	19.5	12.23	12.30	12.34	0.0	13
		6	0	18.39	18.25	18.23	5.0	19.5	12.24	12.32	12.36	0.0	13

LTE Band 66 (Sub.2) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)									
				DSI = 0					DSI = 1				
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				132072	132322	132572			132072	132322	132572		
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	23.31	23.49	23.59	0.0	24	10.17	10.27	10.30	0.0	11
		1	49	23.22	23.45	23.58	0.0	24	9.91	10.00	10.05	0.0	11
		1	99	23.34	23.50	23.57	0.0	24	10.19	10.28	10.29	0.0	11
		50	0	22.40	22.56	22.64	1.0	23	10.19	10.31	10.33	0.0	11
		50	24	22.41	22.55	22.61	1.0	23	10.20	10.32	10.26	0.0	11
		50	50	22.42	22.54	22.59	1.0	23	10.20	10.31	10.32	0.0	11
		100	0	22.41	22.54	22.61	1.0	23	10.20	10.30	10.33	0.0	11
	16QAM	1	0	22.80	22.75	22.88	1.0	23	10.64	10.70	10.67	0.0	11
		1	49	22.85	22.80	22.90	1.0	23	10.61	10.81	10.74	0.0	11
		1	99	22.85	22.73	22.79	1.0	23	10.68	10.76	10.68	0.0	11
		50	0	21.44	21.55	21.64	2.0	22	10.22	10.33	10.35	0.0	11
		50	24	21.44	21.54	21.60	2.0	22	10.22	10.34	10.35	0.0	11
		50	50	21.44	21.54	21.58	2.0	22	10.22	10.36	10.34	0.0	11
		100	0	21.42	21.54	21.62	2.0	22	10.22	10.32	10.36	0.0	11
	64QAM	1	0	21.72	21.75	21.89	2.0	22	10.54	10.57	10.65	0.0	11
		1	49	21.73	21.68	21.88	2.0	22	10.51	10.52	10.63	0.0	11
		1	99	21.79	21.74	21.79	2.0	22	10.61	10.61	10.67	0.0	11
		50	0	20.42	20.53	20.61	3.0	21	10.23	10.33	10.30	0.0	11
		50	24	20.45	20.54	20.60	3.0	21	10.23	10.33	10.31	0.0	11
		50	50	20.43	20.53	20.57	3.0	21	10.23	10.34	10.31	0.0	11
		100	0	20.43	20.48	20.58	3.0	21	10.23	10.32	10.28	0.0	11
	256QAM	1	0	18.52	18.64	18.59	5.0	19	10.37	10.52	10.47	0.0	11
		1	49	18.54	18.50	18.42	5.0	19	10.52	10.56	10.33	0.0	11
		1	99	18.53	18.65	18.52	5.0	19	10.43	10.49	10.54	0.0	11
		50	0	18.36	18.49	18.58	5.0	19	10.19	10.30	10.30	0.0	11
		50	24	18.37	18.49	18.58	5.0	19	10.20	10.29	10.31	0.0	11
		50	50	18.37	18.49	18.56	5.0	19	10.21	10.28	10.30	0.0	11
		100	0	18.35	18.48	18.57	5.0	19	10.19	10.28	10.28	0.0	11
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				132047	132322	132597			132047	132322	132597		
				1717.5 MHz	1745 MHz	1772.5 MHz			1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	QPSK	1	0	21.83	21.92	22.13	0.0	24	10.00	10.08	10.19	0.0	11
		1	37	22.03	21.99	22.20	0.0	24	10.09	10.22	10.13	0.0	11
		1	74	21.82	21.95	22.07	0.0	24	10.03	10.14	10.15	0.0	11
		36	0	21.84	21.98	22.13	1.0	23	9.99	10.13	10.20	0.0	11
		36	20	21.84	21.97	22.10	1.0	23	10.01	10.11	10.22	0.0	11
		36	39	21.85	21.98	22.09	1.0	23	10.00	10.13	10.22	0.0	11
		75	0	21.85	21.99	22.12	1.0	23	9.99	10.13	10.23	0.0	11
	16QAM	1	0	22.07	22.31	22.53	1.0	23	10.35	10.41	10.48	0.0	11
		1	37	22.28	22.43	22.77	1.0	23	10.45	10.47	10.54	0.0	11
		1	74	22.05	22.29	22.49	1.0	23	10.42	10.42	10.42	0.0	11
		36	0	21.36	21.54	21.68	2.0	22	10.00	10.14	10.21	0.0	11
		36	20	21.37	21.54	21.67	2.0	22	10.01	10.14	10.20	0.0	11
		36	39	21.38	21.56	21.66	2.0	22	10.02	10.12	10.21	0.0	11
		75	0	21.38	21.49	21.64	2.0	22	10.02	10.12	10.22	0.0	11
	64QAM	1	0	21.33	21.50	21.39	2.0	22	10.13	10.33	10.40	0.0	11
		1	37	21.11	21.60	21.52	2.0	22	9.93	10.42	10.46	0.0	11
		1	74	21.45	21.54	21.37	2.0	22	10.21	10.34	10.37	0.0	11
		36	0	20.15	20.33	20.43	3.0	21	10.00	10.20	10.28	0.0	11
		36	20	20.15	20.33	20.43	3.0	21	10.01	10.20	10.28	0.0	11
		36	39	20.15	20.33	20.44	3.0	21	10.02	10.19	10.29	0.0	11
		75	0	20.15	20.27	20.40	3.0	21	10.05	10.16	10.23	0.0	11
	256QAM	1	0	18.23	18.67	18.32	5.0	19	10.13	10.48	10.18	0.0	11
		1	37	18.37	18.73	18.31	5.0	19	10.25	10.49	10.14	0.0	11
		1	74	18.24	18.69	18.32	5.0	19	10.17	10.53	10.18	0.0	11
		36	0	18.10	18.27	18.34	5.0	19	10.02	10.18	10.25	0.0	11
		36	20	18.11	18.26	18.32	5.0	19	10.02	10.19	10.24	0.0	11
		36	39	18.12	18.26	18.33	5.0	19	10.03	10.19	10.22	0.0	11
		75	0	18.10	18.28	18.34	5.0	19	10.03	10.18	10.22	0.0	11

LTE Band 66 (Sub.2) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				132022	132322	132622			132022	132322	132622		
				1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	21.82	21.97	22.09	0.0	24	9.98	10.15	10.26	0.0	11
		1	25	21.86	22.03	22.26	0.0	24	9.94	10.26	10.27	0.0	11
		1	49	21.88	21.95	22.09	0.0	24	10.04	10.13	10.28	0.0	11
		25	0	21.85	21.98	22.11	1.0	23	9.99	10.12	10.24	0.0	11
		25	12	21.84	21.97	22.09	1.0	23	9.98	10.11	10.23	0.0	11
		25	25	21.83	21.97	22.10	1.0	23	9.99	10.12	10.23	0.0	11
		50	0	21.88	21.99	22.13	1.0	23	9.98	10.13	10.24	0.0	11
	16QAM	1	0	22.08	22.23	22.60	1.0	23	10.46	10.42	10.41	0.0	11
		1	25	21.92	22.11	22.48	1.0	23	10.34	10.53	10.52	0.0	11
		1	49	22.03	22.27	22.54	1.0	23	10.46	10.49	10.34	0.0	11
		25	0	21.44	21.51	21.71	2.0	22	10.03	10.15	10.27	0.0	11
		25	12	21.42	21.52	21.69	2.0	22	10.02	10.13	10.25	0.0	11
		25	25	21.42	21.52	21.70	2.0	22	10.04	10.16	10.24	0.0	11
		50	0	21.41	21.50	21.66	2.0	22	10.03	10.11	10.26	0.0	11
	64QAM	1	0	21.36	21.56	21.41	2.0	22	10.17	10.42	10.27	0.0	11
		1	25	21.58	21.71	21.42	2.0	22	10.42	10.40	10.14	0.0	11
		1	49	21.34	21.65	21.47	2.0	22	10.15	10.49	10.33	0.0	11
		25	0	20.24	20.35	20.48	3.0	21	10.06	10.17	10.29	0.0	11
		25	12	20.22	20.32	20.47	3.0	21	10.07	10.16	10.30	0.0	11
		25	25	20.22	20.35	20.45	3.0	21	10.07	10.18	10.29	0.0	11
		50	0	20.20	20.33	20.47	3.0	21	10.03	10.17	10.30	0.0	11
	256QAM	1	0	18.21	18.66	18.32	5.0	19	10.02	10.47	10.20	0.0	11
		1	25	18.23	18.76	18.51	5.0	19	10.06	10.46	10.40	0.0	11
		1	49	18.23	18.70	18.30	5.0	19	10.04	10.47	10.22	0.0	11
		25	0	18.25	18.35	18.43	5.0	19	10.12	10.21	10.29	0.0	11
		25	12	18.24	18.32	18.43	5.0	19	10.11	10.21	10.29	0.0	11
		25	25	18.23	18.35	18.43	5.0	19	10.10	10.21	10.28	0.0	11
		50	0	18.16	18.33	18.40	5.0	19	10.03	10.18	10.26	0.0	11
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				131997	132322	132647			131997	132322	132647		
				1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	21.72	21.91	22.01	0.0	24	9.92	10.10	10.20	0.0	11
		1	12	21.73	22.02	22.23	0.0	24	10.00	10.22	10.30	0.0	11
		1	24	21.77	21.92	22.04	0.0	24	9.95	10.14	10.23	0.0	11
		12	0	21.82	21.95	22.06	1.0	23	9.94	10.11	10.21	0.0	11
		12	7	21.84	21.95	22.05	1.0	23	9.95	10.13	10.22	0.0	11
		12	13	21.85	21.94	22.06	1.0	23	9.96	10.12	10.19	0.0	11
		25	0	21.83	21.95	22.06	1.0	23	9.96	10.13	10.20	0.0	11
	16QAM	1	0	22.34	22.30	22.53	1.0	23	10.43	10.57	10.59	0.0	11
		1	12	22.46	22.46	22.13	1.0	23	10.60	10.61	10.66	0.0	11
		1	24	22.38	22.28	22.47	1.0	23	10.47	10.54	10.55	0.0	11
		12	0	21.38	21.52	21.72	2.0	22	10.02	10.20	10.25	0.0	11
		12	7	21.39	21.52	21.72	2.0	22	10.02	10.22	10.24	0.0	11
		12	13	21.34	21.53	21.72	2.0	22	10.01	10.19	10.25	0.0	11
		25	0	21.36	21.49	21.63	2.0	22	9.99	10.15	10.23	0.0	11
	64QAM	1	0	21.05	21.68	21.50	2.0	22	10.42	10.41	10.28	0.0	11
		1	12	21.26	21.67	21.61	2.0	22	10.42	10.44	10.44	0.0	11
		1	24	21.14	21.68	21.57	2.0	22	10.39	10.47	10.32	0.0	11
		12	0	20.03	20.35	20.35	3.0	21	10.00	10.16	10.19	0.0	11
		12	7	20.05	20.36	20.35	3.0	21	10.02	10.16	10.20	0.0	11
		12	13	20.04	20.35	20.34	3.0	21	10.01	10.16	10.20	0.0	11
		25	0	20.12	20.28	20.35	3.0	21	9.99	10.12	10.21	0.0	11
	256QAM	1	0	18.08	18.54	18.20	5.0	19	10.29	9.99	10.17	0.0	11
		1	12	18.00	18.70	18.36	5.0	19	10.45	10.14	10.03	0.0	11
		1	24	18.07	18.54	18.22	5.0	19	10.34	10.02	10.14	0.0	11
		12	0	18.08	18.35	18.39	5.0	19	10.04	10.14	10.19	0.0	11
		12	7	18.09	18.34	18.40	5.0	19	10.03	10.15	10.20	0.0	11
		12	13	18.08	18.33	18.39	5.0	19	10.01	10.15	10.20	0.0	11
		25	0	18.08	18.25	18.37	5.0	19	9.97	10.15	10.22	0.0	11

LTE Band 66 (Sub.2) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				131987	132322	132657			131987	132322	132657		
				1711.5 MHz	1745 MHz	1778.5 MHz			1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	21.88	21.90	22.12	0.0	24	9.98	10.08	10.28	0.0	11
		1	8	22.08	22.00	22.25	0.0	24	10.08	10.20	10.15	0.0	11
		1	14	21.91	21.87	22.13	0.0	24	10.02	10.06	10.32	0.0	11
		8	0	21.87	22.00	22.08	1.0	23	9.99	10.17	10.23	0.0	11
		8	4	21.78	21.96	22.00	1.0	23	9.94	10.12	10.16	0.0	11
		8	7	21.82	21.98	22.03	1.0	23	9.99	10.13	10.22	0.0	11
		15	0	21.85	21.98	22.08	1.0	23	9.97	10.12	10.19	0.0	11
	16QAM	1	0	21.96	22.24	22.37	1.0	23	10.26	10.38	10.42	0.0	11
		1	8	22.12	22.41	22.63	1.0	23	10.34	10.49	10.50	0.0	11
		1	14	21.88	22.28	22.32	1.0	23	10.23	10.43	10.35	0.0	11
		8	0	21.39	21.61	21.63	2.0	22	10.06	10.21	10.24	0.0	11
		8	4	21.39	21.58	21.58	2.0	22	10.02	10.19	10.25	0.0	11
		8	7	21.37	21.55	21.61	2.0	22	10.01	10.20	10.21	0.0	11
		15	0	21.43	21.54	21.62	2.0	22	10.02	10.15	10.17	0.0	11
	64QAM	1	0	21.13	21.59	21.55	2.0	22	10.18	10.38	10.41	0.0	11
		1	8	21.23	21.69	21.68	2.0	22	10.23	10.42	10.53	0.0	11
		1	14	21.10	21.66	21.64	2.0	22	10.13	10.32	10.44	0.0	11
		8	0	20.19	20.32	20.39	3.0	21	10.07	10.24	10.26	0.0	11
		8	4	20.18	20.25	20.41	3.0	21	10.06	10.22	10.22	0.0	11
		8	7	20.14	20.26	20.42	3.0	21	10.07	10.19	10.24	0.0	11
		15	0	20.13	20.28	20.41	3.0	21	9.98	10.13	10.13	0.0	11
	256QAM	1	0	18.21	18.58	18.39	5.0	19	10.05	10.13	10.37	0.0	11
		1	8	18.37	18.63	18.45	5.0	19	10.08	10.26	10.37	0.0	11
		1	14	18.24	18.61	18.39	5.0	19	10.04	10.16	10.35	0.0	11
		8	0	18.12	18.34	18.39	5.0	19	10.04	10.12	10.24	0.0	11
		8	4	18.14	18.39	18.36	5.0	19	10.04	10.13	10.26	0.0	11
		8	7	18.17	18.36	18.38	5.0	19	10.04	10.16	10.23	0.0	11
		15	0	18.21	18.32	18.44	5.0	19	10.08	10.21	10.21	0.0	11

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				131979	132322	132665			131979	132322	132665		
				1710.7 MHz	1745 MHz	1779.3 MHz			1710.7 MHz	1745 MHz	1779.3 MHz		
1.4 MHz	QPSK	1	0	21.90	21.96	21.83	0.0	24	10.03	10.15	10.22	0.0	11
		1	3	21.97	22.08	21.87	0.0	24	9.91	10.12	10.11	0.0	11
		1	5	21.91	21.95	21.80	0.0	24	10.05	10.13	10.21	0.0	11
		3	0	22.00	22.05	21.71	0.0	24	10.02	10.18	10.14	0.0	11
		3	1	21.99	21.89	21.81	0.0	24	9.96	10.13	10.11	0.0	11
		3	3	21.87	21.91	21.86	0.0	24	9.87	10.03	10.12	0.0	11
		6	0	21.93	21.91	21.80	1.0	23	9.99	10.12	10.14	0.0	11
	16QAM	1	0	22.13	22.25	21.87	1.0	23	10.32	10.22	10.23	0.0	11
		1	3	22.38	22.33	21.74	1.0	23	10.24	10.16	10.46	0.0	11
		1	5	22.19	22.30	21.95	1.0	23	10.35	10.26	10.32	0.0	11
		3	0	21.93	22.10	21.86	1.0	23	10.06	10.19	10.43	0.0	11
		3	1	22.03	22.01	21.91	1.0	23	10.06	10.15	10.34	0.0	11
		3	3	22.06	22.07	21.90	1.0	23	10.04	10.25	10.30	0.0	11
		6	0	21.60	21.37	21.39	2.0	22	9.97	10.18	10.24	0.0	11
	64QAM	1	0	21.42	21.37	21.40	2.0	22	10.13	10.24	10.32	0.0	11
		1	3	21.45	21.38	21.66	2.0	22	10.22	10.01	10.66	0.0	11
		1	5	21.38	21.33	21.50	2.0	22	10.08	10.17	10.38	0.0	11
		3	0	21.42	21.49	21.45	2.0	22	10.10	10.27	10.29	0.0	11
		3	1	21.30	21.46	21.45	2.0	22	10.05	10.20	10.28	0.0	11
		3	3	21.35	21.43	21.34	2.0	22	10.06	10.15	10.26	0.0	11
		6	0	20.13	20.41	20.35	3.0	21	10.04	10.23	10.19	0.0	11
	256QAM	1	0	18.13	18.42	18.48	5.0	19	10.02	10.25	10.24	0.0	11
		1	3	18.40	18.59	18.52	5.0	19	10.29	10.48	10.36	0.0	11
		1	5	18.10	18.44	18.48	5.0	19	10.02	10.29	10.24	0.0	11
		3	0	18.08	18.21	18.53	5.0	19	9.96	10.26	10.22	0.0	11
		3	1	18.06	18.16	18.48	5.0	19	9.89	10.25	10.19	0.0	11
		3	3	18.05	18.16	18.43	5.0	19	9.87	10.22	10.13	0.0	11
		6	0	18.06	18.29	18.29	5.0	19	9.91	10.24	10.13	0.0	11

LTE Band 71 Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)										
				DSI = 0					DSI = 1					
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				133222	133297	133372			133222	133297	133372		
				673 MHz	680.5 MHz	688 MHz			673 MHz	680.5 MHz	688 MHz		
20 MHz	QPSK	1	0		24.15		0.0	25		19.74		0.0	20
		1	49		24.08		0.0	25		19.47		0.0	20
		1	99		23.89		0.0	25		19.23		0.0	20
		50	0		23.10		1.0	24		19.65		0.0	20
		50	24		23.03		1.0	24		19.41		0.0	20
		50	50		22.97		1.0	24		19.33		0.0	20
		100	0		23.04		1.0	24		19.41		0.0	20
	16QAM	1	0		23.52		1.0	24		19.88		0.0	20
		1	49		23.55		1.0	24		19.88		0.0	20
		1	99		23.28		1.0	24		19.55		0.0	20
		50	0		22.06		2.0	23		19.50		0.0	20
		50	24		21.99		2.0	23		19.44		0.0	20
		50	50		21.92		2.0	23		19.37		0.0	20
		100	0		22.01		2.0	23		19.42		0.0	20
	64QAM	1	0		22.98		2.0	23		19.94		0.0	20
		1	49		22.98		2.0	23		19.90		0.0	20
		1	99		22.98		2.0	23		19.66		0.0	20
		50	0		21.93		3.0	22		19.59		0.0	20
		50	24		21.90		3.0	22		19.54		0.0	20
		50	50		21.85		3.0	22		19.45		0.0	20
		100	0		21.91		3.0	22		19.46		0.0	20
	256QAM	1	0		18.94		5.0	20		19.15		0.0	20
		1	49		18.83		5.0	20		19.04		0.0	20
		1	99		18.74		5.0	20		18.87		0.0	20
		50	0		18.94		5.0	20		18.85		0.0	20
		50	24		18.88		5.0	20		18.78		0.0	20
		50	50		18.86		5.0	20		18.70		0.0	20
		100	0		18.89		5.0	20		18.80		0.0	20
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				133197	133297	133397			133197	133297	133397		
				670.5 MHz	680.5 MHz	690.5 MHz			670.5 MHz	680.5 MHz	690.5 MHz		
15 MHz	QPSK	1	0		23.94		0.0	25		19.48		0.0	20
		1	37		23.67		0.0	25		19.41		0.0	20
		1	74		23.71		0.0	25		19.29		0.0	20
		36	0		22.96		1.0	24		19.53		0.0	20
		36	20		22.89		1.0	24		19.46		0.0	20
		36	39		22.84		1.0	24		19.42		0.0	20
		75	0		22.89		1.0	24		19.48		0.0	20
	16QAM	1	0		23.10		1.0	24		19.92		0.0	20
		1	37		22.87		1.0	24		19.83		0.0	20
		1	74		22.87		1.0	24		19.73		0.0	20
		36	0		21.94		2.0	23		19.54		0.0	20
		36	20		21.87		2.0	23		19.50		0.0	20
		36	39		21.83		2.0	23		19.45		0.0	20
		75	0		21.86		2.0	23		19.49		0.0	20
	64QAM	1	0		21.88		2.0	23		19.69		0.0	20
		1	37		21.70		2.0	23		19.58		0.0	20
		1	74		21.75		2.0	23		19.49		0.0	20
		36	0		20.66		3.0	22		19.60		0.0	20
		36	20		20.61		3.0	22		19.55		0.0	20
		36	39		20.56		3.0	22		19.50		0.0	20
		75	0		20.64		3.0	22		19.52		0.0	20
	256QAM	1	0		18.77		5.0	20		19.15		0.0	20
		1	37		18.61		5.0	20		18.87		0.0	20
		1	74		18.59		5.0	20		18.98		0.0	20
		36	0		18.61		5.0	20		18.86		0.0	20
		36	20		18.52		5.0	20		18.81		0.0	20
		36	39		18.49		5.0	20		18.76		0.0	20
		75	0		18.58		5.0	20		18.82		0.0	20

LTE Band 71 Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				133172	133297	133422			133172	133297	133422		
				668 MHz	680.5 MHz	693 MHz			668 MHz	680.5 MHz	693 MHz		
10 MHz	QPSK	1	0	23.44	23.98	24.16	0.0	25	18.86	19.64	19.86	0.0	20
		1	25	23.37	23.95	24.03	0.0	25	18.84	19.69	19.63	0.0	20
		1	49	23.34	23.83	24.09	0.0	25	18.76	19.48	19.74	0.0	20
		25	0	22.44	22.94	23.14	1.0	24	18.88	19.59	19.83	0.0	20
		25	12	22.39	22.90	23.09	1.0	24	18.85	19.57	19.79	0.0	20
		25	25	22.34	22.85	23.08	1.0	24	18.80	19.51	19.77	0.0	20
		50	0	22.38	22.91	23.10	1.0	24	18.84	19.58	19.81	0.0	20
	16QAM	1	0	22.48	23.20	23.61	1.0	24	19.10	19.99	19.95	0.0	20
		1	25	22.50	23.18	23.50	1.0	24	19.20	19.95	19.96	0.0	20
		1	49	22.29	23.10	23.47	1.0	24	18.94	19.93	19.91	0.0	20
		25	0	21.39	21.93	22.20	2.0	23	18.89	19.61	19.88	0.0	20
		25	12	21.36	21.86	22.13	2.0	23	18.89	19.59	19.85	0.0	20
		25	25	21.30	21.85	22.10	2.0	23	18.84	19.55	19.81	0.0	20
		50	0	21.36	21.89	22.07	2.0	23	18.88	19.58	19.85	0.0	20
	64QAM	1	0	21.36	21.79	22.01	2.0	23	19.20	19.81	19.87	0.0	20
		1	25	21.46	21.90	21.93	2.0	23	19.27	19.83	19.91	0.0	20
		1	49	21.32	21.73	21.90	2.0	23	19.06	19.74	19.80	0.0	20
		25	0	20.23	20.69	20.94	3.0	22	18.94	19.65	19.89	0.0	20
		25	12	20.20	20.63	20.88	3.0	22	18.91	19.63	19.87	0.0	20
		25	25	20.16	20.62	20.88	3.0	22	18.89	19.60	19.81	0.0	20
		50	0	20.20	20.64	20.88	3.0	22	18.88	19.63	19.87	0.0	20
	256QAM	1	0	18.17	18.99	19.07	5.0	20	18.39	19.33	19.04	0.0	20
		1	25	18.01	18.78	19.05	5.0	20	18.33	19.37	19.05	0.0	20
		1	49	18.00	18.87	18.96	5.0	20	18.31	19.19	18.91	0.0	20
		25	0	18.22	18.69	18.97	5.0	20	18.27	18.96	19.16	0.0	20
		25	12	18.16	18.65	18.93	5.0	20	18.24	18.92	19.13	0.0	20
		25	25	18.12	18.61	18.89	5.0	20	18.20	18.88	19.08	0.0	20
		50	0	18.12	18.63	18.85	5.0	20	18.16	18.92	19.11	0.0	20
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				133147	133297	133447			133147	133297	133447		
				665.5 MHz	680.5 MHz	695.5 MHz			665.5 MHz	680.5 MHz	695.5 MHz		
5 MHz	QPSK	1	0	23.15	23.84	24.03	0.0	25	18.51	19.23	19.60	0.0	20
		1	12	23.12	23.81	23.80	0.0	25	18.55	19.12	19.63	0.0	20
		1	24	23.19	23.81	24.03	0.0	25	18.47	19.22	19.59	0.0	20
		12	0	22.25	22.82	23.07	1.0	24	18.54	19.29	19.66	0.0	20
		12	7	22.25	22.80	23.05	1.0	24	18.52	19.30	19.65	0.0	20
		12	13	22.21	22.79	23.03	1.0	24	18.50	19.27	19.62	0.0	20
		25	0	22.22	22.80	23.07	1.0	24	18.53	19.26	19.65	0.0	20
	16QAM	1	0	22.69	23.09	23.53	1.0	24	18.90	19.72	19.97	0.0	20
		1	12	22.58	22.99	23.23	1.0	24	18.84	19.64	19.95	0.0	20
		1	24	22.72	23.01	23.48	1.0	24	18.83	19.65	19.93	0.0	20
		12	0	21.27	21.85	22.18	2.0	23	18.62	19.42	19.72	0.0	20
		12	7	21.25	21.80	22.16	2.0	23	18.60	19.41	19.70	0.0	20
		12	13	21.23	21.82	22.15	2.0	23	18.62	19.41	19.69	0.0	20
		25	0	21.26	21.78	22.06	2.0	23	18.55	19.31	19.65	0.0	20
	64QAM	1	0	21.31	22.05	22.00	2.0	23	18.68	19.47	19.84	0.0	20
		1	12	21.32	21.94	21.92	2.0	23	18.70	19.41	19.80	0.0	20
		1	24	21.36	21.96	22.00	2.0	23	18.69	19.38	19.84	0.0	20
		12	0	20.21	20.72	20.92	3.0	22	18.50	19.25	19.67	0.0	20
		12	7	20.18	20.70	20.91	3.0	22	18.50	19.24	19.67	0.0	20
		12	13	20.19	20.68	20.89	3.0	22	18.49	19.21	19.66	0.0	20
		25	0	20.20	20.76	20.93	3.0	22	18.53	19.27	19.68	0.0	20
	256QAM	1	0	18.19	19.07	18.95	5.0	20	17.71	18.95	18.83	0.0	20
		1	12	18.08	18.86	18.83	5.0	20	17.53	18.86	18.84	0.0	20
		1	24	18.12	18.97	18.87	5.0	20	17.67	18.89	18.79	0.0	20
		12	0	18.19	18.81	18.95	5.0	20	17.85	18.61	18.96	0.0	20
		12	7	18.18	18.80	18.92	5.0	20	17.84	18.60	18.94	0.0	20
		12	13	18.18	18.75	18.89	5.0	20	17.81	18.56	18.93	0.0	20
		25	0	18.22	18.70	18.94	5.0	20	17.83	18.54	18.95	0.0	20

9.3. NR (Sub 6GHz)

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS 138.521-1 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS138.521-1.

Table 6.2.2.3-1: Maximum Power Reduction (MPR) for Power 3

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

The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS138.521-1 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of “NS_01”

Table 6.2.3.3.1-1: Additional maximum power reduction (A-MPR)

Network Signalling label	Requirements (subclause)	NR Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01		Table 5.2-1	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100	Table 5.3.2-1	N/A

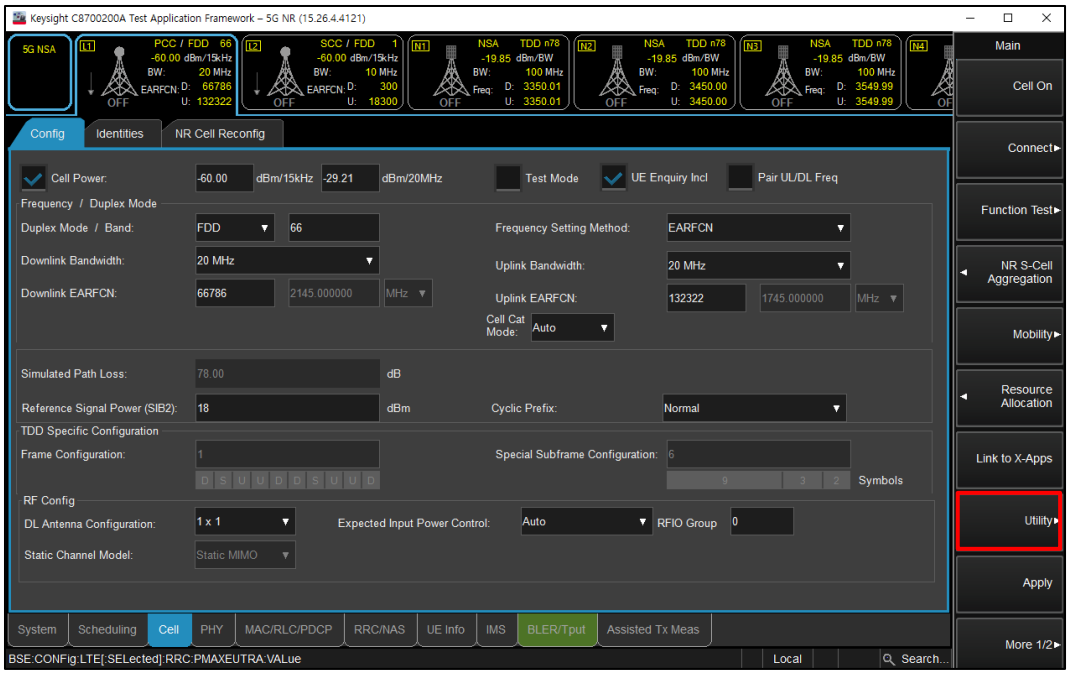
Uplink RB allocations were used to Table 6.1-1 of the 3GPP TS 138.521-1.

Channel Bandwidth	SCS(kHz)	OFDM	RB allocation							
			Edge_Full_Left	Edge_Full_Right	Edge_1RB_Left	Edge_1RB_Right	Outer_Full	Inner_Full	Inner_1RB_Left	Inner_1RB_Right
5MHz	15	DFT-s	2@0	2@23	1@0	1@24	25@0	12@6	1@1	1@23
		CP	2@0	2@23	1@0	1@24	25@0	13@6	1@1	1@23
	30	DFT-s	2@0	2@9	1@0	1@10	10@0	5@2[1]	1@1	1@9
		CP	2@0	2@9	1@0	1@10	11@0	5@2[1]	1@1	1@9
	60	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10MHz	15	DFT-s	2@0	2@50	1@0	1@51	50@0	25@12	1@1	1@50
		CP	2@0	2@50	1@0	1@51	52@0	26@13	1@1	1@50
	30	DFT-s	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
		CP	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
	60	DFT-s	2@0	2@9	1@0	1@10	10@0	5@2[1]	1@1	1@9
		CP	2@0	2@9	1@0	1@10	11@0	5@2[1]	1@1	1@9
15MHz	15	DFT-s	2@0	2@77	1@0	1@78	75@0	36@18	1@1	1@77
		CP	2@0	2@77	1@0	1@78	79@0	39@19[1]	1@1	1@77
	30	DFT-s	2@0	2@36	1@0	1@37	36@0	18@9	1@1	1@36
		CP	2@0	2@36	1@0	1@37	38@0	19@9	1@1	1@36
	60	DFT-s	2@0	2@16	1@0	1@17	18@0	9@4	1@1	1@16
		CP	2@0	2@16	1@0	1@17	18@0	9@4	1@1	1@16
20MHz	15	DFT-s	2@0	2@104	1@0	1@105	100@0	50@25	1@1	1@104
		CP	2@0	2@104	1@0	1@105	106@0	53@26	1@1	1@104
	30	DFT-s	2@0	2@49	1@0	1@50	50@0	25@12	1@1	1@49
		CP	2@0	2@49	1@0	1@50	51@0	25@12[1]	1@1	1@49
	60	DFT-s	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
		CP	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22

Procedures used to establish power measurement for NR Bands

Switching to NSA mode or SA mode

- Click the “Utility” button in the right of Test application screen
- Select “5G NR NSA” in the “TA Mode Switch” for NSA mode
- Select “5G NR Standalone” in the “TA Mode Switch” for SA mode

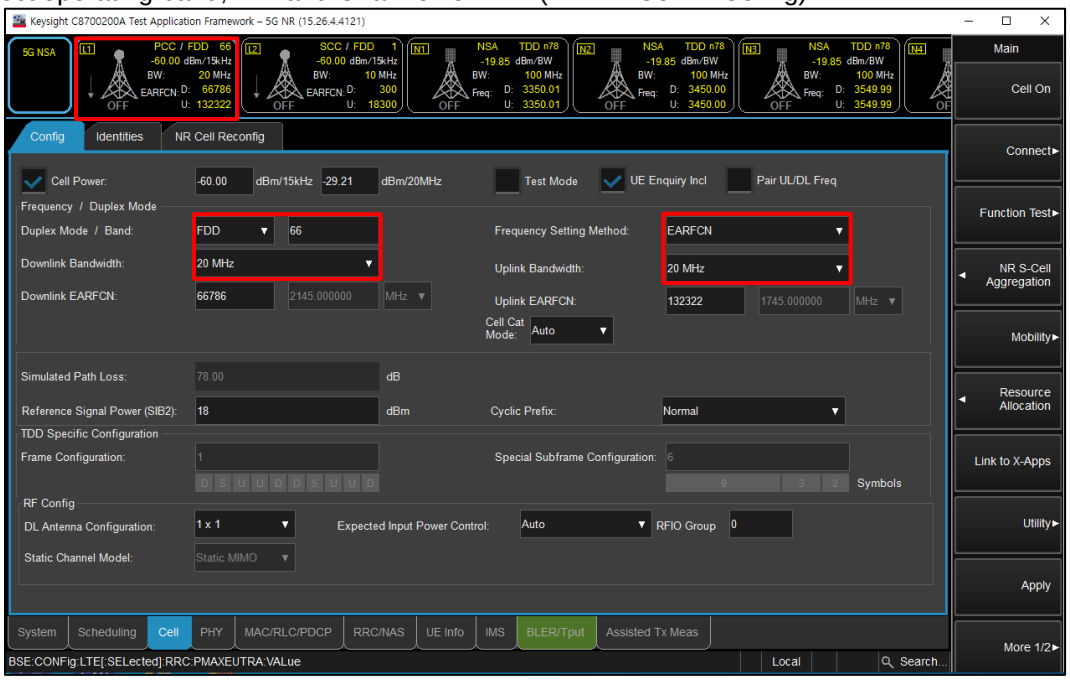


(Figure 1-1)

(Figure 1-2)

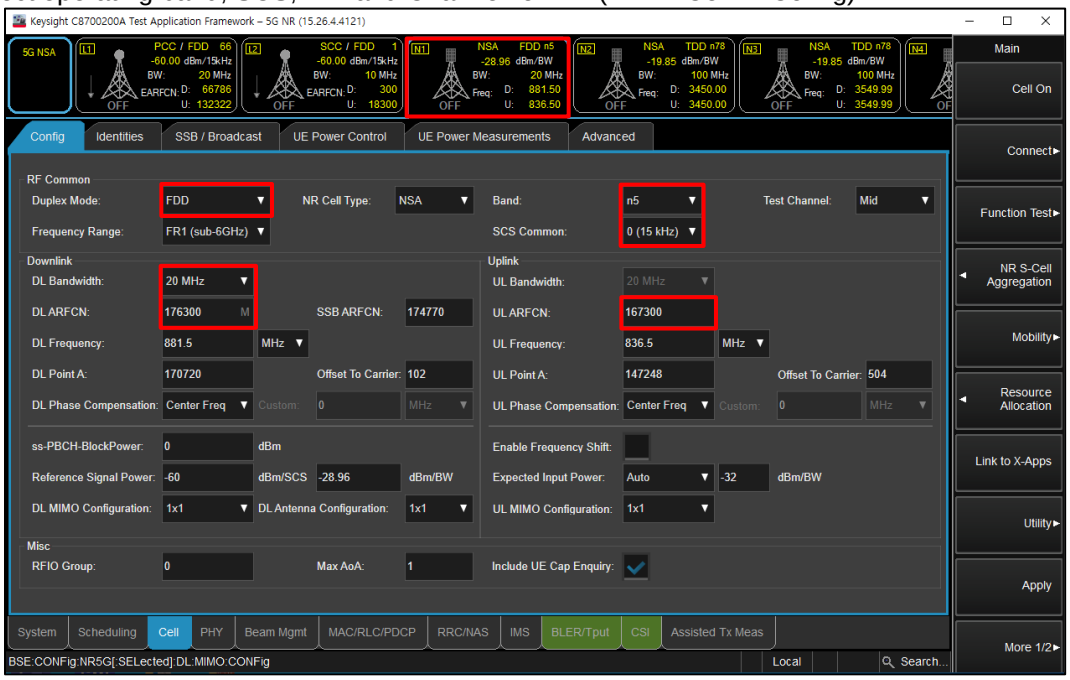
NSA Mode

- Select operating band, BW and Channel for LTE (LTE -> Cell -> Config)



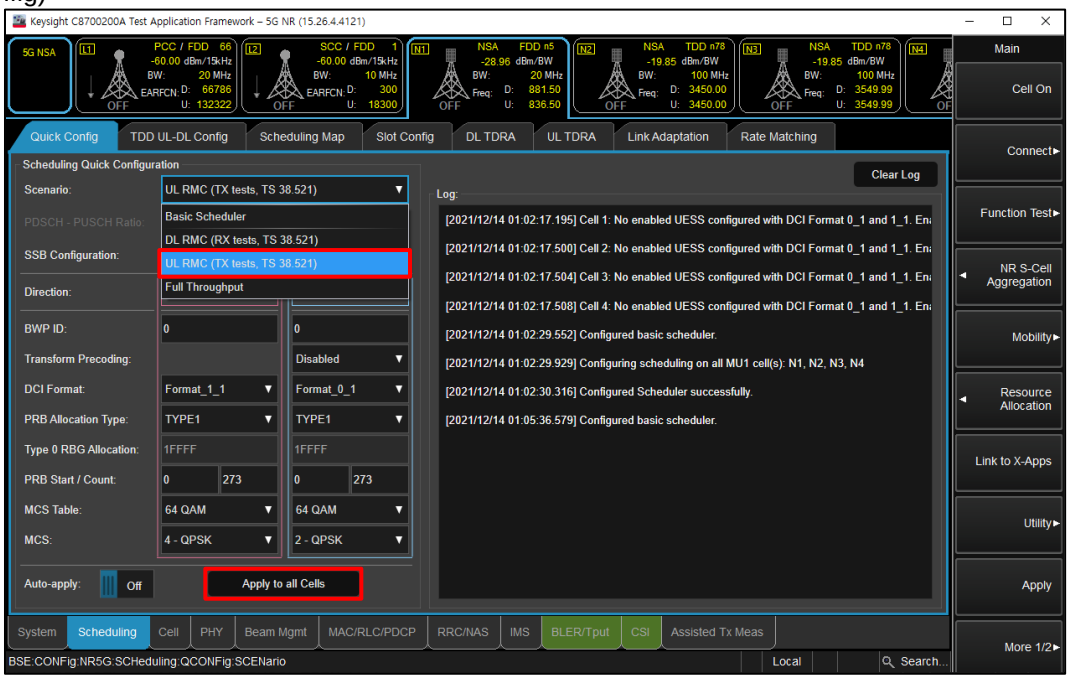
(Figure 2-1)

- Select operating band, SCS, BW and Channel for NR (NR -> Cell -> Config)



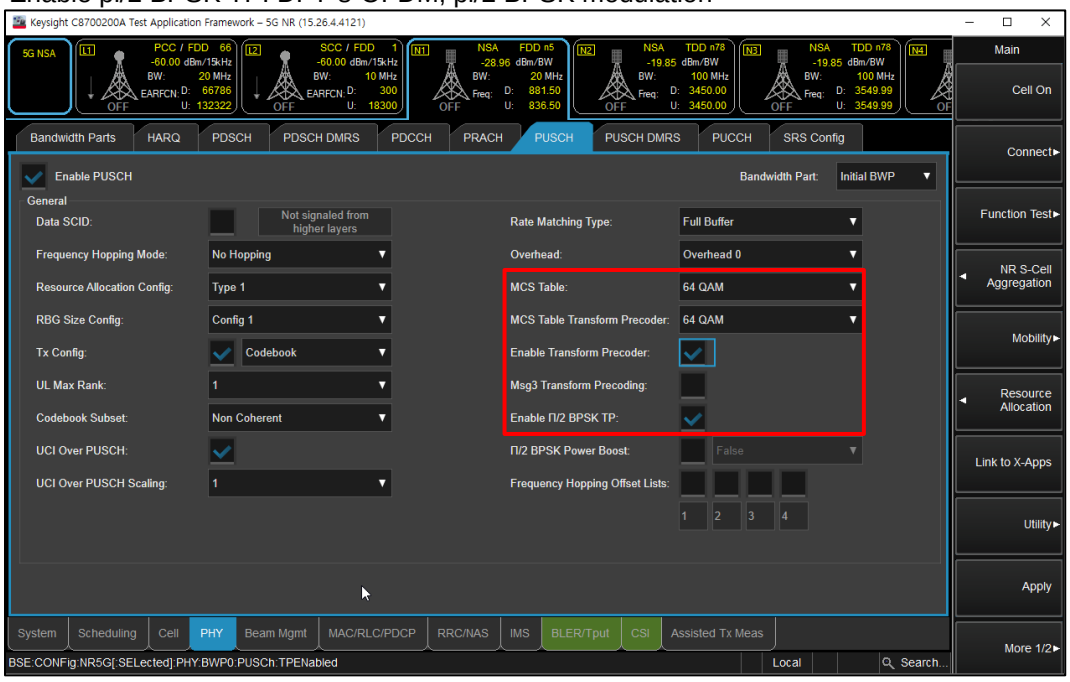
(Figure 2-2)

- Select “UL RMC (TX tests, TS 38.521)” for maximum power RB scheduling (NR -> Scheduling -> Quick Config)



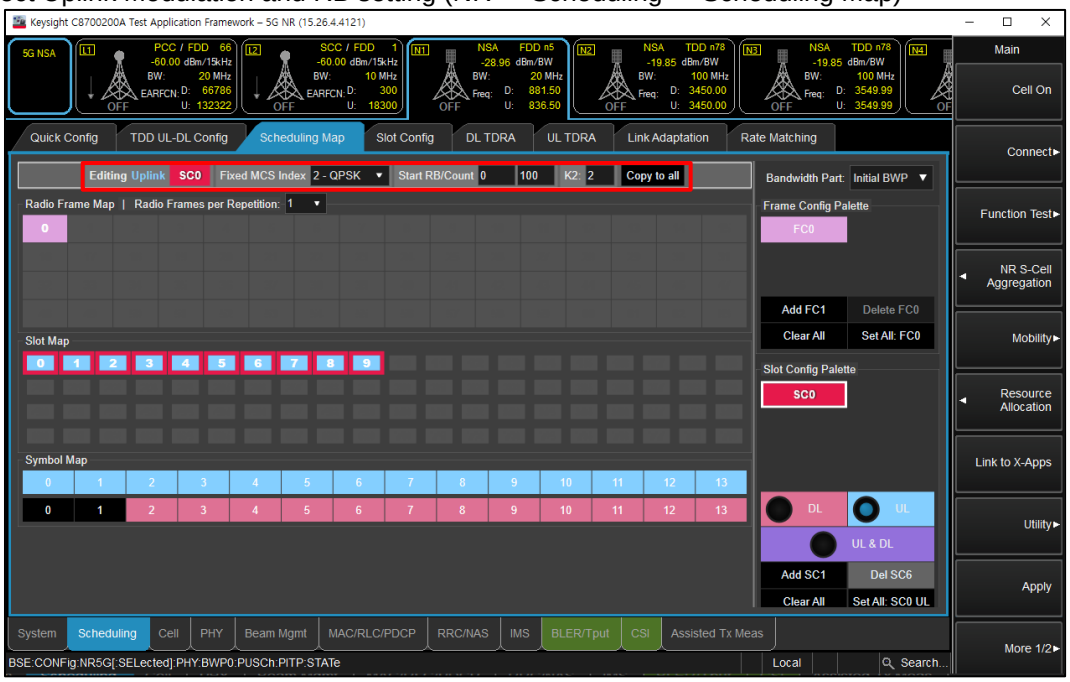
(Figure 2-3)

- To set waveform for NR Band (NR -> PHY -> PUSCH)
  - Select highest modulation in the MCS Table and MCS Table Transform Precoder
  - Enable Transform Precoder: DFT-s-OFDM / disable for CP-OFDM
  - Enable pi/2 BPSK TP: DFT-s-OFDM, pi/2 BPSK modulation



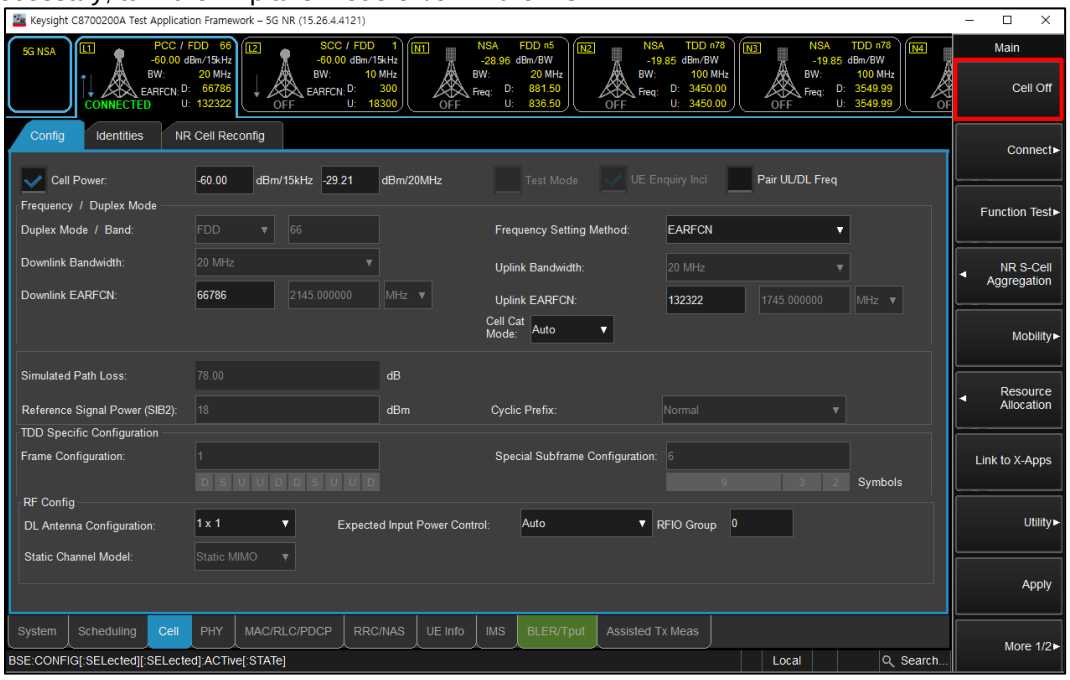
(Figure 2-4)

- Select Uplink Modulation and RB setting (NR -> Scheduling -> Scheduling Map)



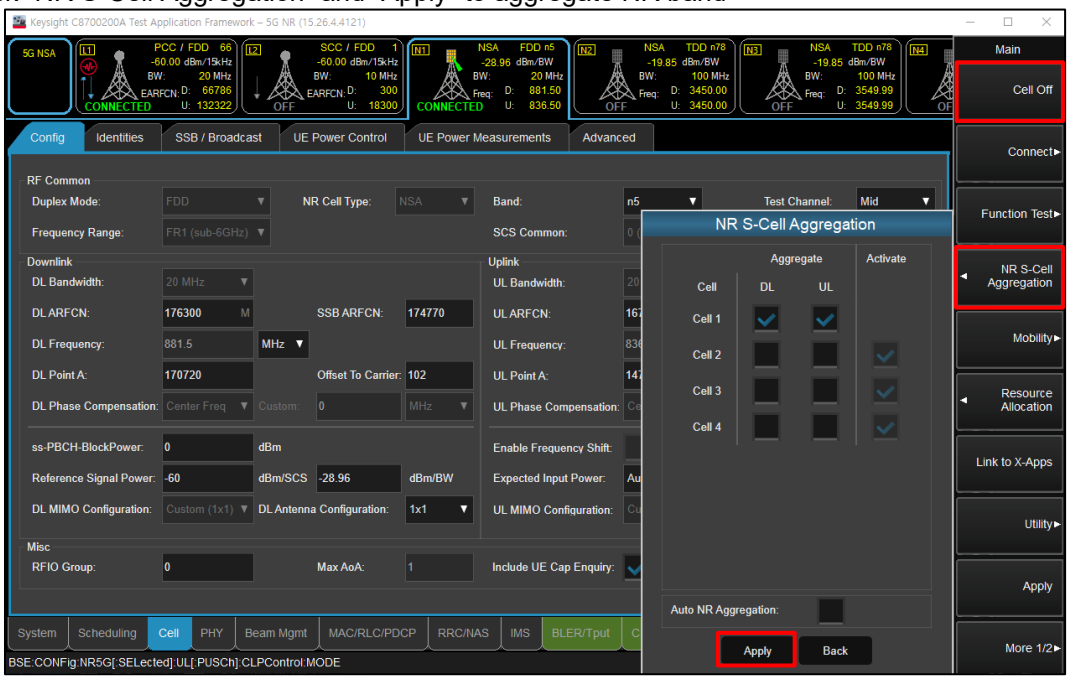
(Figure 2-5)

- Click “Cell On” button in the right of Test application screen in the LTE tab
- If necessary, turn the Airplane Mode on/off in the DUT



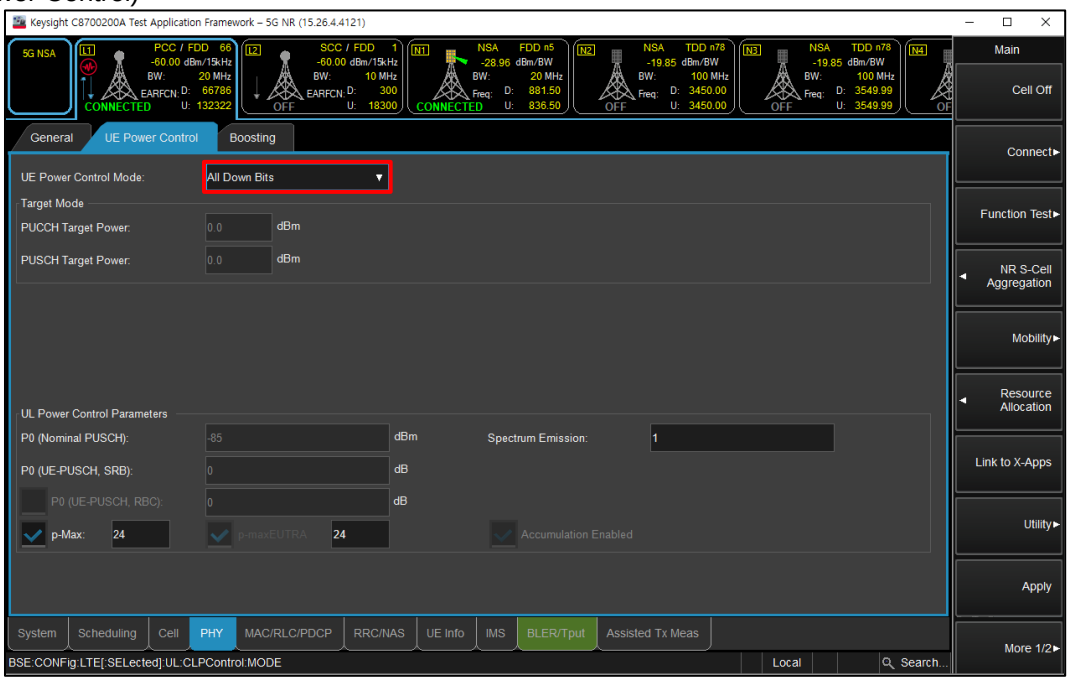
(Figure 2-6)

- Click “Cell On” button in the right of Test application screen in the NR tab
- Click “NR S-Cell Aggregation” and “Apply” to aggregate NR band



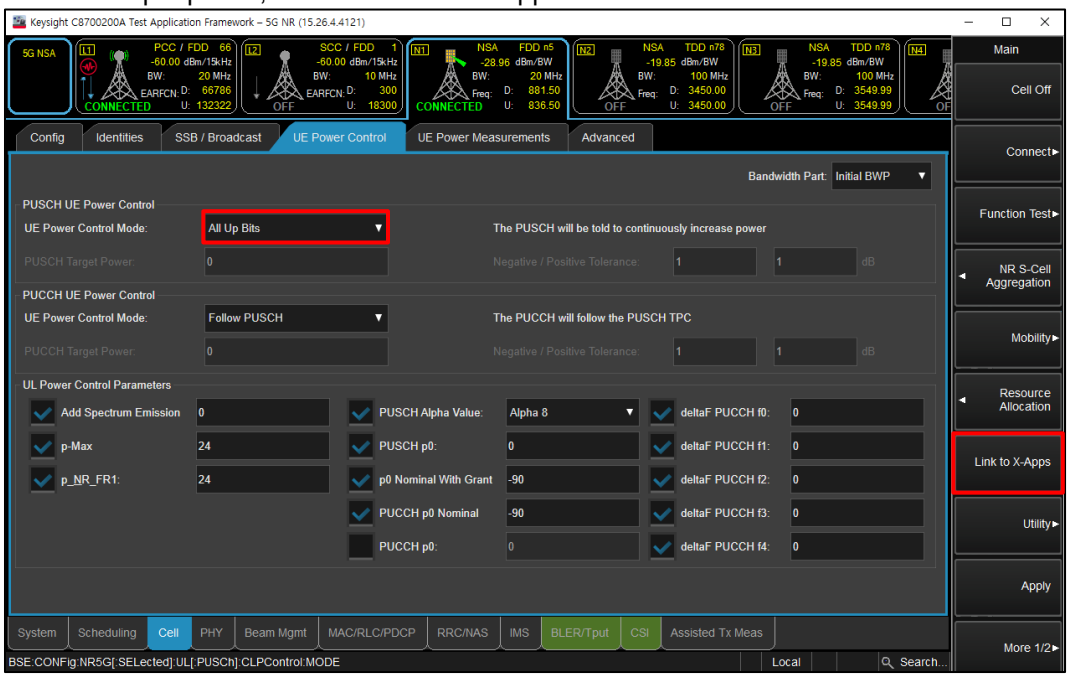
(Figure 2-7)

- Select “All Down Bits” of UL Power control Mode in LTE tab for NR maximum power (LTE -> PHY -> UE Power Control)



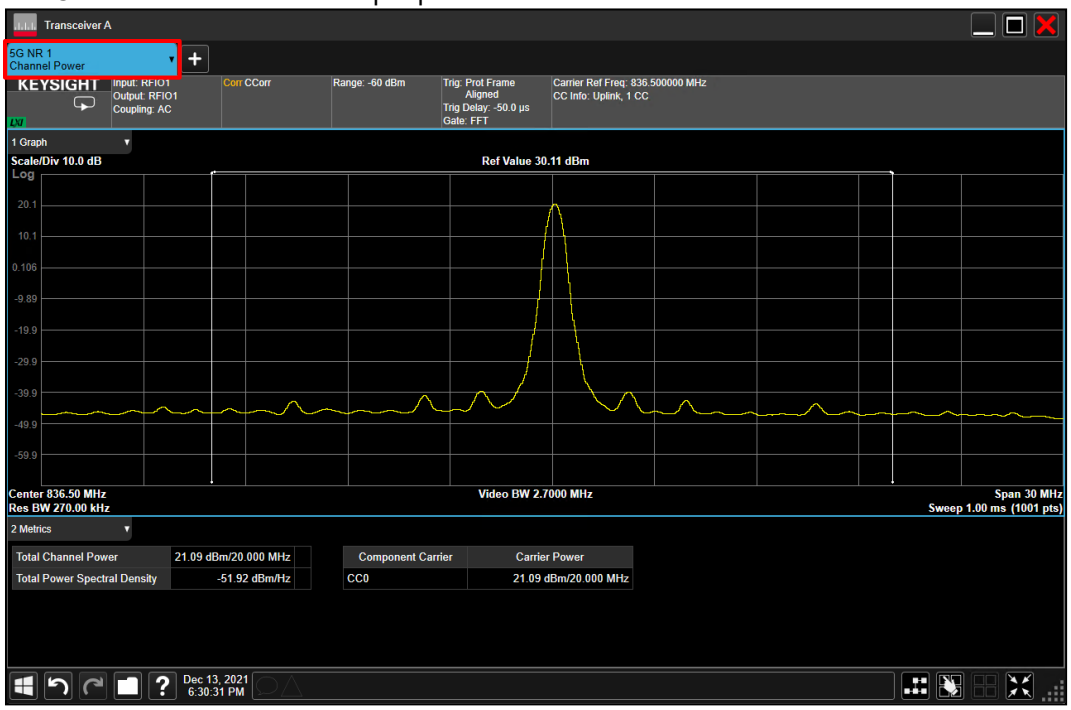
(Figure 2-8)

- Select “All Up Bits” of UL Power control Mode in NR tab for NR maximum power (NR -> Cell -> UE Power Control)
- To read the output power, click the “Link to X-Apps”



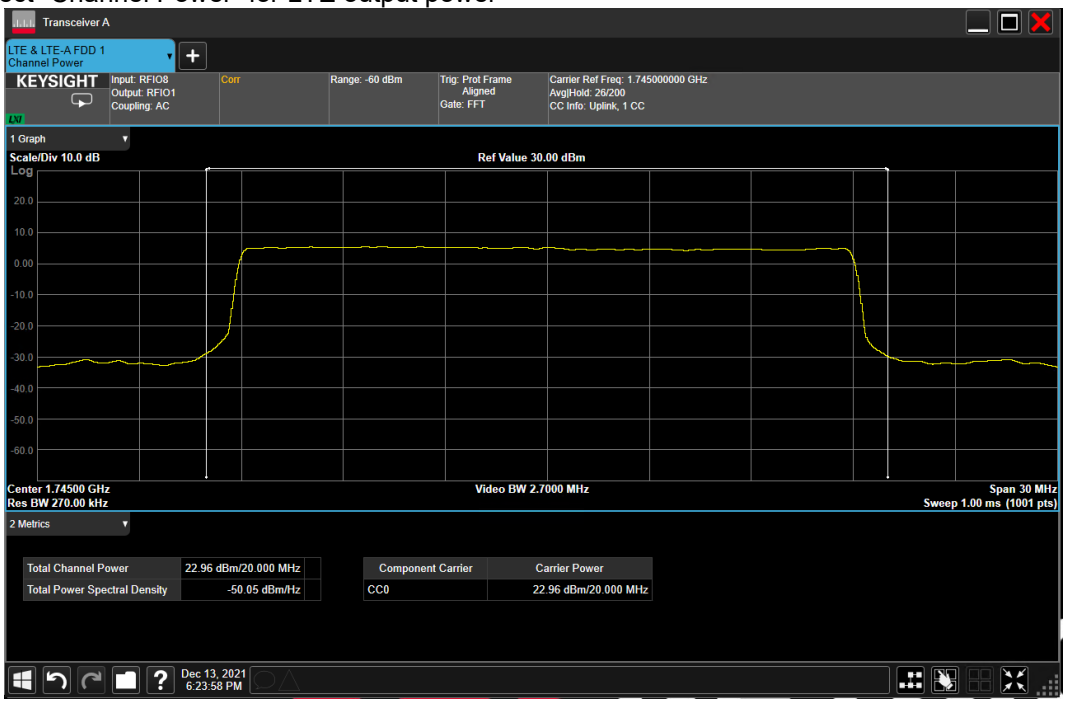
(Figure 2-9)

- Select “Channel Power” for NR output power



(Figure 2-10)

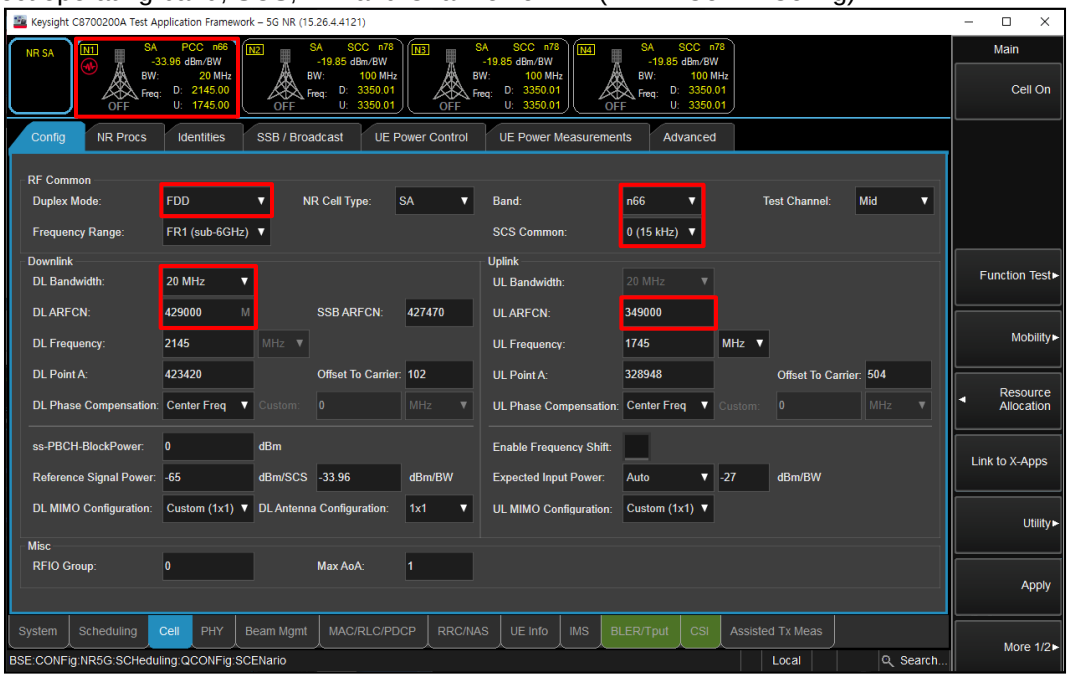
- Select “Channel Power” for LTE output power



(Figure 2-11)

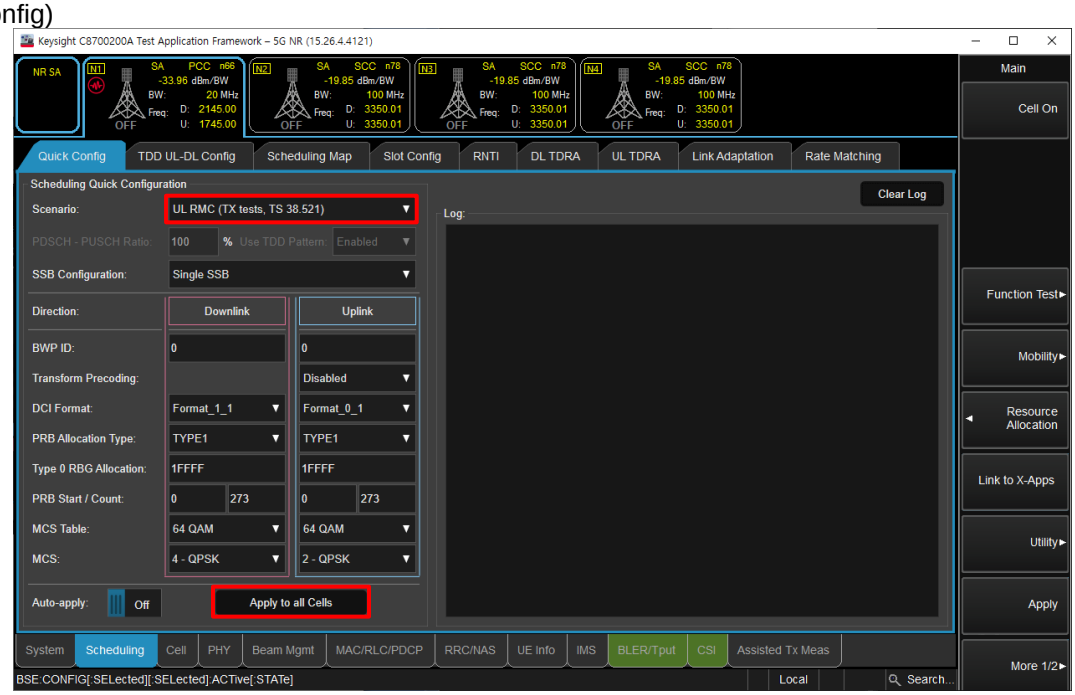
SA Mode

- Select operating band, SCS, BW and Channel for NR (NR -> Cell -> Config)



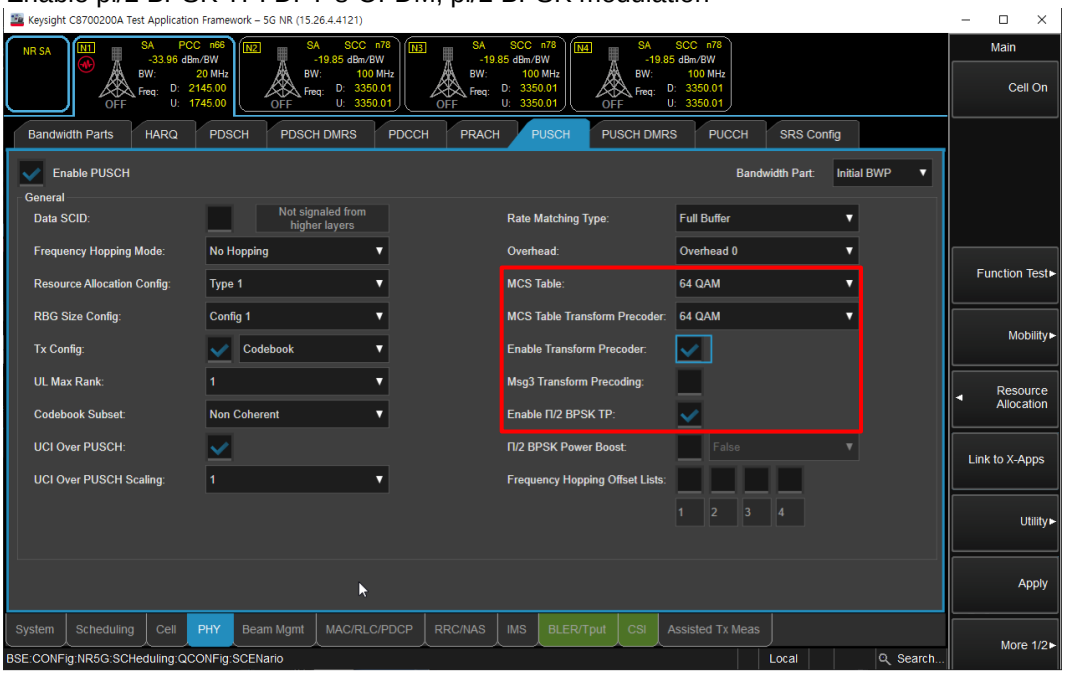
(Figure 3-1)

- Select “UL RMC (TX tests, TS 38.521)” for maximum power RB scheduling (NR -> Scheduling -> Quick Config)



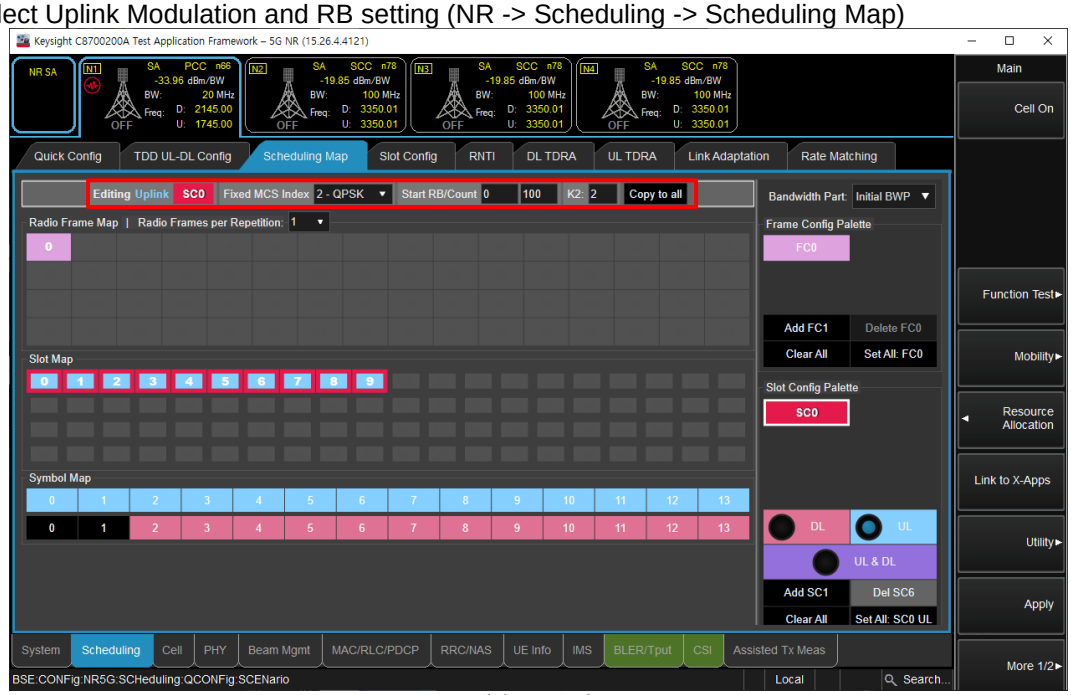
(Figure 3-2)

- To set waveform for NR Band (NR -> PHY -> PUSCH)
  - Select highest modulation in the MCS Table and MCS Table Transform Precoder
  - Enable Transform Precoder: DFT-s-OFDM / disable for CP-OFDM
  - Enable pi/2 BPSK TP: DFT-s-OFDM, pi/2 BPSK modulation



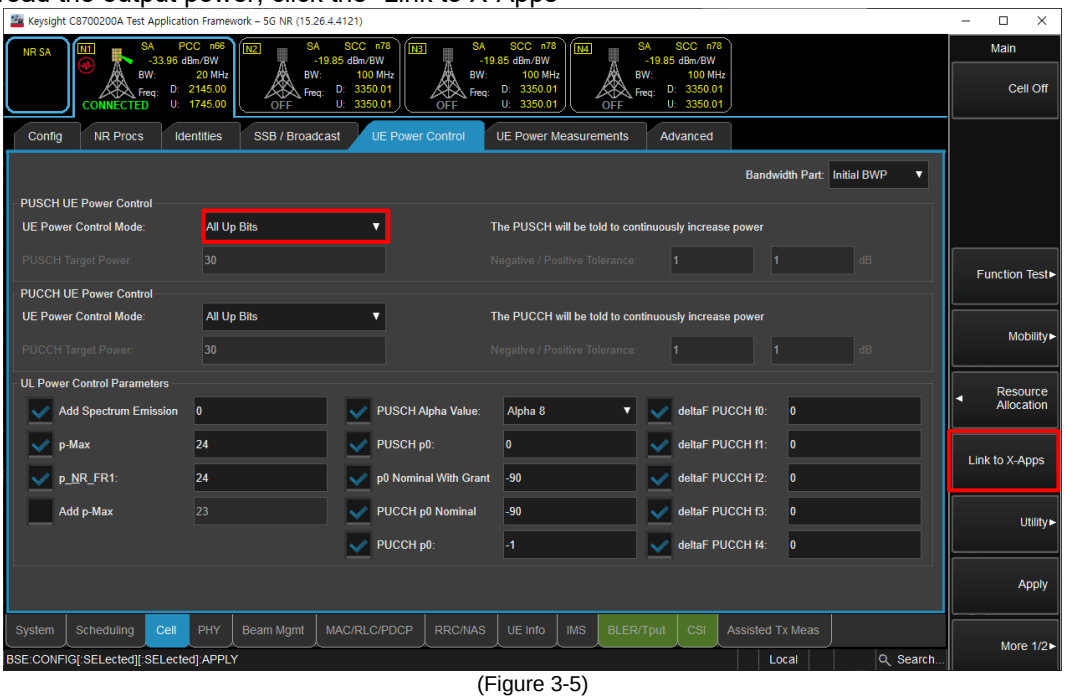
(Figure 3-3)

- Select Uplink Modulation and RB setting (NR -> Scheduling -> Scheduling Map)



(Figure 3-4)

- Click “Cell On” button in the right of Test application screen
- If necessary, turn the Airplane Mode on/off in the DUT
- Select “All Up Bits” of UL Power control Mode (Cell -> UE Power Control)
- To read the output power, click the “Link to X-Apps”



(Figure 3-5)

- Select “Channel Power”

(Figure 3-6)

NR Band n5 Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)										
					DSI = 0					DSI = 1					
					Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					166800	167300	167800			166800	167300	167800		
					834 MHz	836.5 MHz	839 MHz			834 MHz	836.5 MHz	839 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1		23.57		0.0	25.0		14.34		0.0	15.0
			1	53		23.54		0.0	25.0		14.36		0.0	15.0
			1	104		23.21		0.0	25.0		14.35		0.0	15.0
			50	0		22.61		0.5	24.5		14.33		0.0	15.0
			50	28		23.50		0.0	25.0		14.20		0.0	15.0
			50	56		22.37		0.5	24.5		14.05		0.0	15.0
			100	0		22.52		0.5	24.5		14.24		0.0	15.0
		QPSK	1	1		23.60		0.0	25.0		14.48		0.0	15.0
			1	53		23.50		0.0	25.0		14.42		0.0	15.0
			1	104		23.25		0.0	25.0		13.98		0.0	15.0
			50	0		22.63		1.0	24.0		14.40		0.0	15.0
			50	28		23.51		0.0	25.0		14.41		0.0	15.0
			50	56		22.37		1.0	24.0		14.08		0.0	15.0
			100	0		22.52		1.0	24.0		14.25		0.0	15.0
		16QAM	1	1		22.62		1.0	24.0		14.41		0.0	15.0
		64QAM	1	1		21.13		2.5	22.5		14.62		0.0	15.0
		256QAM	1	1		18.99		4.5	20.5		14.40		0.0	15.0
	CP-OFDM	QPSK	1	1		22.08		1.5	23.5		14.45		0.0	15.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					166300	167300	168300			166300	167300	168300		
					831.5 MHz	836.5 MHz	841.5 MHz			831.5 MHz	836.5 MHz	841.5 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1		24.18		0.0	25.0		13.96		0.0	15.0
			1	40		23.94		0.0	25.0		14.02		0.0	15.0
			1	77		23.87		0.0	25.0		14.11		0.0	15.0
			36	0		23.21		0.5	24.5		14.42		0.0	15.0
			36	22		24.08		0.0	25.0		14.44		0.0	15.0
			36	43		22.98		0.5	24.5		14.47		0.0	15.0
			75	0		23.09		0.5	24.5		14.42		0.0	15.0
		QPSK	1	1		24.22		0.0	25.0		14.45		0.0	15.0
			1	40		23.99		0.0	25.0		14.34		0.0	15.0
			1	77		23.89		0.0	25.0		14.17		0.0	15.0
			36	0		23.22		1.0	24.0		14.41		0.0	15.0
			36	22		24.08		0.0	25.0		14.41		0.0	15.0
			36	43		22.98		1.0	24.0		14.39		0.0	15.0
			75	0		23.11		1.0	24.0		13.99		0.0	15.0
		16QAM	1	1		23.38		1.0	24.0		14.46		0.0	15.0
		64QAM	1	1		21.66		2.5	22.5		14.39		0.0	15.0
		256QAM	1	1		19.71		4.5	20.5		14.06		0.0	15.0
	CP-OFDM	QPSK	1	1		22.73		1.5	23.5		14.21		0.0	15.0

NR Band n5 Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					165800	167300	168800			165800	167300	168800		
					829 MHz	836.5 MHz	844 MHz			829 MHz	836.5 MHz	844 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1		24.14		0.0	25.0		14.42		0.0	15.0
			1	26		24.08		0.0	25.0		14.37		0.0	15.0
			1	50		23.90		0.0	25.0		14.15		0.0	15.0
			25	0		23.15		0.5	24.5		14.38		0.0	15.0
			25	14		24.04		0.0	25.0		14.32		0.0	15.0
			25	27		23.00		0.5	24.5		14.23		0.0	15.0
			50	0		23.07		0.5	24.5		14.32		0.0	15.0
		QPSK	1	1		24.20		0.0	25.0		14.49		0.0	15.0
			1	26		24.05		0.0	25.0		14.38		0.0	15.0
			1	50		23.93		0.0	25.0		14.16		0.0	15.0
			25	0		23.17		1.0	24.0		14.38		0.0	15.0
			25	14		24.08		0.0	25.0		14.30		0.0	15.0
			25	27		23.01		1.0	24.0		14.23		0.0	15.0
			50	0		23.10		1.0	24.0		14.30		0.0	15.0
		16QAM	1	1		23.36		1.0	24.0		14.33		0.0	15.0
		64QAM	1	1		21.83		2.5	22.5		14.42		0.0	15.0
		256QAM	1	1		19.67		4.5	20.5		14.19		0.0	15.0
	CP-OFDM	QPSK	1	1		22.72		1.5	23.5		14.45		0.0	15.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					165300	167300	169300			165300	167300	169300		
					826.5 MHz	836.5 MHz	846.5 MHz			826.5 MHz	836.5 MHz	846.5 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	24.04	23.86	23.82	0.0	25.0	14.44	14.30	14.10	0.0	15.0
			1	13	23.91	23.74	23.75	0.0	25.0	14.36	14.15	13.96	0.0	15.0
			1	23	23.94	23.80	23.03	0.0	25.0	14.44	14.19	14.02	0.0	15.0
			12	0	23.05	22.90	23.92	0.5	24.5	14.47	14.32	14.11	0.0	15.0
			12	7	24.03	23.85	22.89	0.0	25.0	14.44	14.27	14.07	0.0	15.0
			12	13	23.00	22.83	24.03	0.5	24.5	14.47	14.23	14.04	0.0	15.0
			25	0	23.04	22.88	22.88	0.5	24.5	14.47	14.27	14.07	0.0	15.0
		QPSK	1	1	24.12	23.91	23.91	0.0	25.0	14.46	14.34	14.12	0.0	15.0
			1	13	23.98	23.77	23.77	0.0	25.0	14.40	14.19	13.98	0.0	15.0
			1	23	24.01	23.83	23.83	0.0	25.0	14.46	14.22	14.06	0.0	15.0
			12	0	23.10	22.91	23.02	1.0	24.0	14.47	14.32	14.11	0.0	15.0
			12	7	24.04	23.86	23.08	0.0	25.0	14.46	14.28	14.07	0.0	15.0
			12	13	23.02	22.86	23.10	1.0	24.0	14.46	14.25	14.04	0.0	15.0
			25	0	23.08	22.88	23.36	1.0	24.0	14.46	14.28	14.06	0.0	15.0
		16QAM	1	1	23.08	22.92	22.32	1.0	24.0	14.51	14.38	14.23	0.0	15.0
		64QAM	1	1	21.66	21.44	20.32	2.5	22.5	14.44	14.28	14.09	0.0	15.0
		256QAM	1	1	19.62	19.37	18.99	4.5	20.5	14.38	14.23	13.97	0.0	15.0
	CP-OFDM	QPSK	1	1	22.60	22.37	21.78	1.5	23.5	14.49	14.38	14.07	0.0	15.0

NR Band n12 Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)								
					DSI = 0					DSI = 1			
					Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					141300	141500	141700			141300	141500	141700		
					706.5 MHz	707.5 MHz	708.5 MHz			706.5 MHz	707.5 MHz	708.5 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1		23.49		0.0	25.0		16.06		0.0	16.5
			1	40		23.50		0.0	25.0		16.18		0.0	16.5
			1	77		23.39		0.0	25.0		16.23		0.0	16.5
			36	0		22.57		0.5	24.5		16.14		0.0	16.5
			36	22		23.61		0.0	25.0		16.22		0.0	16.5
			36	43		22.55		0.5	24.5		16.18		0.0	16.5
			75	0		22.61		0.5	24.5		16.22		0.0	16.5
		QPSK	1	1		23.49		0.0	25.0		16.24		0.0	16.5
			1	40		23.51		0.0	25.0		16.21		0.0	16.5
			1	77		23.67		0.0	25.0		16.29		0.0	16.5
			36	0		22.57		1.0	24.0		16.15		0.0	16.5
			36	22		23.60		0.0	25.0		16.27		0.0	16.5
			36	43		22.55		1.0	24.0		16.21		0.0	16.5
			75	0		22.61		1.0	24.0		16.25		0.0	16.5
		16QAM	1	1		22.55		1.0	24.0		16.17		0.0	16.5
		64QAM	1	1		21.01		2.5	22.5		16.27		0.0	16.5
		256QAM	1	1		18.87		4.5	20.5		16.05		0.0	16.5
	CP-OFDM	QPSK	1	1		22.05		1.5	23.5		16.17		0.0	16.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					140800	141500	142200			140800	141500	142200		
					704 MHz	707.5 MHz	711 MHz			704 MHz	707.5 MHz	711 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1		23.93		0.0	25.0		16.04		0.0	16.5
			1	26		23.96		0.0	25.0		16.14		0.0	16.5
			1	50		23.92		0.0	25.0		16.08		0.0	16.5
			25	0		23.01		0.5	24.5		16.18		0.0	16.5
			25	14		24.00		0.0	25.0		16.18		0.0	16.5
			25	27		23.03		0.5	24.5		16.18		0.0	16.5
			50	0		23.02		0.5	24.5		16.18		0.0	16.5
		QPSK	1	1		24.00		0.0	25.0		16.21		0.0	16.5
			1	26		24.09		0.0	25.0		16.22		0.0	16.5
			1	50		23.97		0.0	25.0		16.12		0.0	16.5
			25	0		23.04		1.0	24.0		16.20		0.0	16.5
			25	14		24.03		0.0	25.0		16.20		0.0	16.5
			25	27		23.03		1.0	24.0		16.20		0.0	16.5
			50	0		23.05		1.0	24.0		16.20		0.0	16.5
		16QAM	1	1		22.97		1.0	24.0		16.21		0.0	16.5
		64QAM	1	1		21.57		2.5	22.5		16.25		0.0	16.5
		256QAM	1	1		19.50		4.5	20.5		16.07		0.0	16.5
	CP-OFDM	QPSK	1	1		22.53		1.5	23.5		16.14		0.0	16.5

NR Band n12 Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					140300	141500	142700			140300	141500	142700		
					701.5 MHz	707.5 MHz	713.5 MHz			701.5 MHz	707.5 MHz	713.5 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.86	24.01	23.84	0.0	25.0	16.09	16.08	15.95	0.0	16.5
			1	13	23.82	23.94	23.68	0.0	25.0	16.02	16.14	15.88	0.0	16.5
			1	23	23.96	24.03	23.74	0.0	25.0	16.11	16.13	15.92	0.0	16.5
			12	0	22.96	23.04	22.87	0.5	24.5	16.12	16.13	16.03	0.0	16.5
			12	7	23.96	24.05	23.82	0.0	25.0	16.13	16.20	15.99	0.0	16.5
			12	13	22.98	23.05	22.82	0.5	24.5	16.13	15.99	15.96	0.0	16.5
			25	0	22.98	23.07	22.85	0.5	24.5	16.13	15.99	16.03	0.0	16.5
		QPSK	1	1	23.95	24.05	23.90	0.0	25.0	16.11	15.96	16.07	0.0	16.5
			1	13	23.89	23.98	23.76	0.0	25.0	16.01	16.03	15.92	0.0	16.5
			1	23	24.01	24.06	23.80	0.0	25.0	16.13	16.07	15.95	0.0	16.5
			12	0	22.98	23.06	22.91	1.0	24.0	16.13	16.21	16.06	0.0	16.5
			12	7	23.96	24.07	23.85	0.0	25.0	16.14	16.22	16.02	0.0	16.5
			12	13	23.00	23.07	22.85	1.0	24.0	16.13	16.21	15.98	0.0	16.5
			25	0	23.00	23.07	22.88	1.0	24.0	16.13	16.21	16.01	0.0	16.5
		16QAM	1	1	22.95	23.06	22.83	1.0	24.0	16.20	16.19	15.99	0.0	16.5
		64QAM	1	1	21.44	21.61	21.51	2.5	22.5	16.22	16.27	16.24	0.0	16.5
		256QAM	1	1	19.43	19.47	19.35	4.5	20.5	16.10	16.05	15.95	0.0	16.5
	CP-OFDM	QPSK	1	1	22.53	22.58	22.45	1.5	23.5	16.13	16.17	16.04	0.0	16.5

NR Band n25 Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)									
					DSI = 0					DSI = 1				
					Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					372000	376500	381000			372000	376500	381000		
					1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.51	23.51	23.61	0.0	25.0	12.75	12.53	12.45	0.0	13.5
			1	53	23.41	23.59	23.45	0.0	25.0	12.79	12.77	12.96	0.0	13.5
			1	104	23.47	23.73	23.71	0.0	25.0	12.80	12.70	12.97	0.0	13.5
			50	0	23.07	22.84	22.92	0.5	24.5	12.82	12.74	12.81	0.0	13.5
			50	28	23.43	23.51	23.41	0.0	25.0	12.81	12.76	13.02	0.0	13.5
			50	56	23.09	22.92	23.18	0.5	24.5	12.82	12.77	13.04	0.0	13.5
			100	0	23.08	22.93	23.15	0.5	24.5	12.82	12.78	13.02	0.0	13.5
		QPSK	1	1	23.51	23.84	23.94	0.0	25.0	12.88	12.81	12.84	0.0	13.5
			1	53	23.94	24.04	24.01	0.0	25.0	12.87	12.89	12.79	0.0	13.5
			1	104	23.93	23.91	23.34	0.0	25.0	12.82	12.84	12.79	0.0	13.5
			50	0	23.17	23.02	23.04	1.0	24.0	12.70	12.74	12.62	0.0	13.5
			50	28	23.97	24.01	23.94	0.0	25.0	12.65	12.77	12.75	0.0	13.5
			50	56	23.16	23.03	23.30	1.0	24.0	12.69	12.68	12.67	0.0	13.5
			100	0	23.16	23.02	23.24	1.0	24.0	12.82	12.80	13.02	0.0	13.5
		16QAM	1	1	22.76	23.09	22.87	1.0	24.0	12.92	12.83	12.77	0.0	13.5
		64QAM	1	1	21.60	21.46	21.47	2.5	22.5	13.00	12.81	12.80	0.0	13.5
		256QAM	1	1	19.50	19.42	19.29	4.5	20.5	12.78	12.66	12.64	0.0	13.5
	CP-OFDM	QPSK	1	1	22.17	22.40	22.49	1.5	23.5	12.83	12.75	12.72	0.0	13.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					371500	376500	381500			371500	376500	381500		
					1857.5 MHz	1882.5 MHz	1907.5 MHz			1857.5 MHz	1882.5 MHz	1907.5 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.66	23.93	23.84	0.0	25.0	13.09	12.76	12.87	0.0	13.5
			1	40	23.51	23.93	23.61	0.0	25.0	12.91	12.69	13.03	0.0	13.5
			1	77	23.65	23.84	23.65	0.0	25.0	13.00	12.80	13.07	0.0	13.5
			36	0	23.26	23.09	23.17	0.5	24.5	13.10	12.80	13.05	0.0	13.5
			36	22	23.61	24.08	23.56	0.0	25.0	13.04	12.80	13.13	0.0	13.5
			36	43	23.22	23.13	23.30	0.5	24.5	13.04	12.83	13.13	0.0	13.5
			75	0	23.25	23.11	23.33	0.5	24.5	13.05	12.80	13.14	0.0	13.5
		QPSK	1	1	23.30	23.60	23.79	0.0	25.0	13.15	12.82	12.93	0.0	13.5
			1	40	24.05	24.02	23.89	0.0	25.0	12.95	12.74	13.06	0.0	13.5
			1	77	23.90	23.61	23.11	0.0	25.0	13.04	12.81	13.13	0.0	13.5
			36	0	23.09	23.14	23.30	1.0	24.0	13.10	12.81	13.04	0.0	13.5
			36	22	24.08	23.76	23.92	0.0	25.0	13.04	12.80	13.14	0.0	13.5
			36	43	23.28	23.17	23.30	1.0	24.0	13.03	12.82	13.11	0.0	13.5
			75	0	23.28	23.14	23.37	1.0	24.0	13.03	12.80	13.12	0.0	13.5
		16QAM	1	1	22.61	22.98	23.02	1.0	24.0	13.10	12.85	12.92	0.0	13.5
		64QAM	1	1	21.63	21.65	21.70	2.5	22.5	13.09	12.78	13.03	0.0	13.5
		256QAM	1	1	19.68	19.58	19.49	4.5	20.5	12.84	12.76	12.89	0.0	13.5
	CP-OFDM	QPSK	1	1	22.02	22.50	22.68	1.5	23.5	12.97	12.90	13.01	0.0	13.5

Note(s):

NR Band n2 is covered by NR Band n25.

NR Band n25 Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					371000	376500	382000			371000	376500	382000		
					1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.44	23.50	23.72	0.0	25.0	12.91	12.72	13.00	0.0	13.5
			1	26	23.68	23.58	23.84	0.0	25.0	12.84	12.79	13.04	0.0	13.5
			1	50	23.25	23.59	23.30	0.0	25.0	12.82	12.76	13.00	0.0	13.5
			25	0	23.59	22.65	22.91	0.5	24.5	12.90	12.77	13.07	0.0	13.5
			25	14	22.65	23.63	23.89	0.0	25.0	12.88	12.77	13.05	0.0	13.5
			25	27	23.63	23.09	23.32	0.5	24.5	12.86	12.79	13.05	0.0	13.5
			50	0	23.09	23.07	23.34	0.5	24.5	12.89	12.78	13.05	0.0	13.5
		QPSK	1	1	23.07	24.09	23.91	0.0	25.0	12.93	12.75	13.05	0.0	13.5
			1	26	24.09	24.07	24.07	0.0	25.0	12.95	12.81	13.20	0.0	13.5
			1	50	23.80	24.10	23.27	0.0	25.0	12.83	12.77	13.04	0.0	13.5
			25	0	23.78	23.10	23.40	1.0	24.0	12.93	12.78	13.07	0.0	13.5
			25	14	23.22	24.10	24.05	0.0	25.0	12.88	12.77	13.05	0.0	13.5
			25	27	23.78	23.13	23.21	1.0	24.0	12.84	12.80	13.04	0.0	13.5
			50	0	23.67	23.11	23.32	1.0	24.0	12.89	12.79	13.06	0.0	13.5
		16QAM	1	1	23.21	23.10	23.23	1.0	24.0	12.99	12.72	13.06	0.0	13.5
		64QAM	1	1	22.33	21.65	21.96	2.5	22.5	12.92	12.73	13.03	0.0	13.5
		256QAM	1	1	18.99	19.48	19.86	4.5	20.5	12.94	12.73	12.97	0.0	13.5
	CP-OFDM	QPSK	1	1	21.78	22.51	22.79	1.5	23.5	12.98	12.80	13.13	0.0	13.5
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					370500	376500	382500			370500	376500	382500		
					1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.54	23.48	23.38	0.0	25.0	12.81	12.63	13.00	0.0	13.5
			1	13	23.46	23.41	23.63	0.0	25.0	12.71	12.72	13.04	0.0	13.5
			1	23	23.57	23.55	23.74	0.0	25.0	12.77	12.82	13.00	0.0	13.5
			12	0	22.64	22.59	22.86	0.5	24.5	12.85	12.84	13.07	0.0	13.5
			12	7	23.62	23.59	23.86	0.0	25.0	12.83	12.85	13.05	0.0	13.5
			12	13	23.05	23.13	22.90	0.5	24.5	12.81	12.85	13.05	0.0	13.5
			25	0	23.06	23.21	22.94	0.5	24.5	12.82	12.87	13.05	0.0	13.5
		QPSK	1	1	23.70	24.03	24.01	0.0	25.0	12.85	12.87	13.14	0.0	13.5
			1	13	23.71	23.95	23.97	0.0	25.0	12.74	12.78	12.93	0.0	13.5
			1	23	23.78	24.07	23.50	0.0	25.0	12.83	12.87	13.06	0.0	13.5
			12	0	23.12	23.06	23.41	1.0	24.0	12.84	12.88	13.13	0.0	13.5
			12	7	23.78	24.03	24.03	0.0	25.0	12.81	12.89	13.04	0.0	13.5
			12	13	23.11	23.07	23.19	1.0	24.0	12.81	12.87	12.82	0.0	13.5
			25	0	23.13	23.07	23.38	1.0	24.0	12.82	12.88	12.98	0.0	13.5
		16QAM	1	1	23.05	23.11	23.38	1.0	24.0	12.98	12.87	12.85	0.0	13.5
		64QAM	1	1	21.57	21.54	21.87	2.5	22.5	12.85	13.03	12.77	0.0	13.5
		256QAM	1	1	19.55	19.47	19.74	4.5	20.5	12.81	12.67	12.79	0.0	13.5
	CP-OFDM	QPSK	1	1	22.55	21.55	22.79	1.5	23.5	12.89	12.77	13.05	0.0	13.5

Note(s):

NR Band n2 is covered by NR Band n25.

NR Band n30 Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)										
					DSI = 0					DSI = 1					
					Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
						462000					462000			
						2310 MHz					2310 MHz			
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1		21.97		0.0	23.5		12.78		0.0	13.5
			1	26		22.07		0.0	23.5		12.87		0.0	13.5
			1	50		22.32		0.0	23.5		12.92		0.0	13.5
			25	0		21.11		0.5	23.0		12.90		0.0	13.5
			25	14		22.13		0.0	23.5		12.91		0.0	13.5
			25	27		21.28		0.5	23.0		12.96		0.0	13.5
			50	0		21.15		0.5	23.0		12.90		0.0	13.5
		QPSK	1	1		22.14		0.0	23.5		12.90		0.0	13.5
			1	26		22.19		0.0	23.5		12.94		0.0	13.5
			1	50		22.36		0.0	23.5		12.98		0.0	13.5
			25	0		21.18		1.0	22.5		12.94		0.0	13.5
			25	14		22.20		0.0	23.5		13.01		0.0	13.5
			25	27		21.36		1.0	22.5		12.98		0.0	13.5
			50	0		21.21		1.0	22.5		12.93		0.0	13.5
		16QAM	1	1		21.20		1.0	22.5		12.76		0.0	13.5
		64QAM	1	1		19.59		2.5	21.0		12.91		0.0	13.5
		256QAM	1	1		17.64		4.5	19.0		12.93		0.0	13.5
	CP-OFDM	QPSK	1	1		20.61		1.5	22.0		13.03		0.0	13.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					461500	462000	462500			461500	462000	462500		
					2307.5 MHz	2310 MHz	2312.5 MHz			2307.5 MHz	2310 MHz	2312.5 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.51	22.47	22.36	0.0	23.5	12.86	12.96	13.01	0.0	13.5
			1	13	22.48	22.45	22.42	0.0	23.5	12.77	12.89	12.98	0.0	13.5
			1	23	22.57	22.61	22.57	0.0	23.5	12.89	13.04	13.06	0.0	13.5
			12	0	21.61	21.59	21.60	0.5	23.0	12.92	12.98	13.04	0.0	13.5
			12	7	22.64	22.63	22.62	0.0	23.5	12.94	13.00	13.06	0.0	13.5
			12	13	21.64	21.67	21.67	0.5	23.0	12.95	13.03	13.07	0.0	13.5
			25	0	21.65	21.67	21.69	0.5	23.0	12.96	13.00	13.06	0.0	13.5
		QPSK	1	1	22.67	22.67	22.68	0.0	23.5	12.94	12.97	13.03	0.0	13.5
			1	13	22.57	22.62	22.62	0.0	23.5	12.86	12.89	12.99	0.0	13.5
			1	23	22.69	22.75	22.74	0.0	23.5	12.96	13.04	13.08	0.0	13.5
			12	0	21.69	21.67	21.73	1.0	22.5	12.96	12.98	13.05	0.0	13.5
			12	7	22.69	22.70	22.73	0.0	23.5	12.95	13.01	13.07	0.0	13.5
			12	13	21.71	21.75	21.77	1.0	22.5	12.96	13.03	13.09	0.0	13.5
			25	0	21.71	21.71	21.75	1.0	22.5	12.97	12.99	13.07	0.0	13.5
		16QAM	1	1	21.71	21.72	21.70	1.0	22.5	13.07	12.98	13.11	0.0	13.5
		64QAM	1	1	20.21	20.25	20.32	2.5	21.0	12.91	12.99	12.90	0.0	13.5
		256QAM	1	1	18.11	18.13	18.09	4.5	19.0	12.88	12.88	13.00	0.0	13.5
	CP-OFDM	QPSK	1	1	21.20	21.14	21.18	1.5	22.0	13.09	13.05	13.11	0.0	13.5

NR Band n41 (Main.1 SRS0) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)													
					DSI = 0							DSI = 1						
					Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					509202		518598		528000			509202		518598		528000		
					2546.01 MHz		2592.99 MHz		2640 MHz			2546.01 MHz		2592.99 MHz		2640 MHz		
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1			20.64			0.0	21.5			13.67			0.0	14.0
			1	137			20.96			0.0	21.5			13.77			0.0	14.0
			1	271			20.27			0.0	21.5			13.31			0.0	14.0
			135	0			20.14			0.5	21.0			13.59			0.0	14.0
			135	69			20.97			0.0	21.5			13.81			0.0	14.0
			135	138			19.92			0.5	21.0			13.33			0.0	14.0
			270	0			20.43			0.5	21.0			13.79			0.0	14.0
		QPSK	1	1			20.66			0.0	21.5			13.77			0.0	14.0
			1	137			20.98			0.0	21.5			13.78			0.0	14.0
			1	271			20.27			0.0	21.5			13.35			0.0	14.0
			135	0			19.65			1.0	20.5			13.61			0.0	14.0
			135	69			20.94			0.0	21.5			13.82			0.0	14.0
			135	138			19.41			1.0	20.5			13.35			0.0	14.0
			270	0			19.87			1.0	20.5			13.81			0.0	14.0
		16QAM	1	1			19.63			1.0	20.5			13.78			0.0	14.0
		64QAM	1	1			18.03			2.5	19.0			13.69			0.0	14.0
		256QAM	1	1			16.05			4.5	17.0			13.68			0.0	14.0
	CP-OFDM	QPSK	1	1			19.02			1.5	20.0			13.73			0.0	14.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					508200				528996			508200				528996		
					2541 MHz				2644.98 MHz			2541 MHz				2644.98 MHz		
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1	20.14				20.73	0.0	21.5	13.26				13.64	0.0	14.0
			1	123	20.80				20.30	0.0	21.5	13.63				13.16	0.0	14.0
			1	243	20.81				19.93	0.0	21.5	13.45				13.11	0.0	14.0
			120	0	20.05				19.74	0.5	21.0	13.35				13.11	0.0	14.0
			120	63	20.78				20.28	0.0	21.5	13.57				13.08	0.0	14.0
			120	125	20.15				19.71	0.5	21.0	13.42				13.26	0.0	14.0
			243	0	20.17				19.75	0.5	21.0	13.52				13.07	0.0	14.0
		QPSK	1	1	20.12				20.76	0.0	21.5	13.23				13.55	0.0	14.0
			1	123	20.81				20.30	0.0	21.5	13.61				13.11	0.0	14.0
			1	243	20.79				19.93	0.0	21.5	13.46				13.08	0.0	14.0
			120	0	19.59				19.26	1.0	20.5	13.36				13.08	0.0	14.0
			120	63	20.75				20.29	0.0	21.5	13.55				13.07	0.0	14.0
			120	125	19.62				19.21	1.0	20.5	13.41				13.25	0.0	14.0
			243	0	19.64				19.24	1.0	20.5	13.50				13.07	0.0	14.0
		16QAM	1	1	19.10				19.67	1.0	20.5	13.25				13.54	0.0	14.0
		64QAM	1	1	17.54				18.09	2.5	19.0	13.17				13.48	0.0	14.0
		256QAM	1	1	16.30				16.15	4.5	17.0	13.18				13.51	0.0	14.0
	CP-OFDM	QPSK	1	1	18.50				19.19	1.5	20.0	13.30				13.51	0.0	14.0

NR Band n41 (Main.1 SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					507204				529998			507204				529998		
					2536.02 MHz				2649.99 MHz			2536.02 MHz				2649.99 MHz		
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	20.12				19.81	0.0	21.5	13.25				13.49	0.0	14.0
			1	109	20.09				20.08	0.0	21.5	13.59				13.09	0.0	14.0
			1	215	20.39				20.32	0.0	21.5	13.36				13.24	0.0	14.0
			108	0	19.78				19.47	0.5	21.0	13.17				13.04	0.0	14.0
			108	55	20.09				20.05	0.0	21.5	13.57				13.18	0.0	14.0
			108	109	19.76				19.27	0.5	21.0	13.53				13.28	0.0	14.0
			216	0	19.50				19.59	0.5	21.0	13.51				13.06	0.0	14.0
		QPSK	1	1	20.21				20.04	0.0	21.5	13.24				13.49	0.0	14.0
			1	109	20.22				20.30	0.0	21.5	13.61				13.10	0.0	14.0
			1	215	20.39				19.87	0.0	21.5	13.36				13.22	0.0	14.0
			108	0	18.93				18.94	1.0	20.5	13.14				13.02	0.0	14.0
			108	55	20.10				19.94	0.0	21.5	13.55				13.17	0.0	14.0
			108	109	19.24				19.08	1.0	20.5	13.53				13.27	0.0	14.0
			216	0	19.48				18.95	1.0	20.5	13.51				13.06	0.0	14.0
		16QAM	1	1	19.11				19.05	1.0	20.5	13.07				13.32	0.0	14.0
		64QAM	1	1	18.00				17.62	2.5	19.0	12.99				13.28	0.0	14.0
		256QAM	1	1	15.25				15.24	4.5	17.0	13.00				13.31	0.0	14.0
	CP-OFDM	QPSK	1	1	18.40				18.27	1.5	20.0	13.01				13.27	0.0	14.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					506202				531000			506202				531000		
					2531.01 MHz				2655 MHz			2531.01 MHz				2655 MHz		
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1	20.20				19.72	0.0	21.5	13.14				13.26	0.0	14.0
			1	95	20.10				20.00	0.0	21.5	13.24				13.18	0.0	14.0
			1	188	20.32				20.30	0.0	21.5	13.22				13.21	0.0	14.0
			90	0	19.70				19.44	0.5	21.0	13.27				13.15	0.0	14.0
			90	50	20.26				20.05	0.0	21.5	13.12				13.19	0.0	14.0
			90	99	19.77				19.40	0.5	21.0	13.13				13.05	0.0	14.0
			180	0	19.56				19.64	0.5	21.0	13.28				13.05	0.0	14.0
		QPSK	1	1	20.18				19.98	0.0	21.5	13.29				13.20	0.0	14.0
			1	95	20.24				20.18	0.0	21.5	13.35				13.18	0.0	14.0
			1	188	20.41				19.95	0.0	21.5	13.24				13.18	0.0	14.0
			90	0	18.89				18.79	1.0	20.5	13.19				13.12	0.0	14.0
			90	50	20.06				19.82	0.0	21.5	13.22				13.11	0.0	14.0
			90	99	19.13				19.03	1.0	20.5	13.22				13.04	0.0	14.0
			180	0	19.34				19.09	1.0	20.5	13.15				13.11	0.0	14.0
		16QAM	1	1	18.99				19.10	1.0	20.5	13.30				13.18	0.0	14.0
		64QAM	1	1	17.98				17.49	2.5	19.0	13.13				13.14	0.0	14.0
		256QAM	1	1	15.20				15.28	4.5	17.0	13.14				13.09	0.0	14.0
	CP-OFDM	QPSK	1	1	18.43				18.23	1.5	20.0	13.23				13.17	0.0	14.0

NR Band n41 (Main.1 SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					505200	518598	531996			505200	518598	531996		
					2526 MHz	2592.99 MHz	2659.98 MHz			2526 MHz	2592.99 MHz	2659.98 MHz		
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1	20.17	21.11	19.78	0.0	21.5	13.14	13.69	13.26	0.0	14.0
			1	81	20.09	21.26	19.99	0.0	21.5	13.27	13.78	13.14	0.0	14.0
			1	160	20.34	20.82	20.22	0.0	21.5	13.29	13.67	13.12	0.0	14.0
			81	0	19.78	20.28	19.52	0.5	21.0	13.29	13.61	13.18	0.0	14.0
			81	41	20.19	20.73	19.98	0.0	21.5	13.17	13.69	13.16	0.0	14.0
			81	81	19.79	20.42	19.35	0.5	21.0	13.21	13.62	13.05	0.0	14.0
			162	0	19.58	20.42	19.68	0.5	21.0	13.26	13.59	13.10	0.0	14.0
		QPSK	1	1	20.20	20.92	20.05	0.0	21.5	13.23	13.74	13.19	0.0	14.0
			1	81	20.27	20.51	20.20	0.0	21.5	13.36	13.79	13.18	0.0	14.0
			1	160	20.38	20.93	19.91	0.0	21.5	13.21	13.71	13.07	0.0	14.0
			81	0	18.97	19.85	18.89	1.0	20.5	13.27	13.58	13.11	0.0	14.0
			81	41	20.10	20.64	19.91	0.0	21.5	13.29	13.69	13.18	0.0	14.0
			81	81	19.22	20.01	19.06	1.0	20.5	13.24	13.61	13.14	0.0	14.0
			162	0	19.41	19.80	19.02	1.0	20.5	13.22	13.57	13.16	0.0	14.0
		16QAM	1	1	19.06	20.07	19.03	1.0	20.5	13.22	13.58	13.19	0.0	14.0
		64QAM	1	1	17.91	18.16	17.58	2.5	19.0	13.20	13.53	13.11	0.0	14.0
		256QAM	1	1	15.29	16.31	15.25	4.5	17.0	13.22	13.55	13.14	0.0	14.0
	CP-OFDM	QPSK	1	1	18.46	19.52	18.22	1.5	20.0	13.21	13.52	13.10	0.0	14.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					504204	518598	532998			504204	518598	532998		
					2512.02 MHz	2592.99 MHz	2664.99 MHz			2512.02 MHz	2592.99 MHz	2664.99 MHz		
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	20.25	21.01	19.79	0.0	21.5	13.22	13.61	13.27	0.0	14.0
			1	67	20.16	21.23	19.97	0.0	21.5	13.30	13.81	13.10	0.0	14.0
			1	131	20.39	20.78	20.32	0.0	21.5	13.28	13.76	13.16	0.0	14.0
			64	0	19.82	20.20	19.59	0.5	21.0	13.27	13.60	13.12	0.0	14.0
			64	35	20.21	20.82	20.01	0.0	21.5	13.18	13.66	13.09	0.0	14.0
			64	69	19.72	20.44	19.33	0.5	21.0	13.22	13.58	13.06	0.0	14.0
			128	0	19.68	20.42	19.58	0.5	21.0	13.34	13.69	13.14	0.0	14.0
		QPSK	1	1	20.11	20.87	20.14	0.0	21.5	13.27	13.71	13.12	0.0	14.0
			1	67	20.21	20.47	20.13	0.0	21.5	13.28	13.67	13.12	0.0	14.0
			1	131	20.42	21.00	19.95	0.0	21.5	13.23	13.66	13.10	0.0	14.0
			64	0	19.04	19.78	18.98	1.0	20.5	13.18	13.63	13.09	0.0	14.0
			64	35	20.15	20.67	20.01	0.0	21.5	13.27	13.57	13.15	0.0	14.0
			64	69	19.16	20.04	19.06	1.0	20.5	13.18	13.69	13.07	0.0	14.0
			128	0	19.41	19.76	19.11	1.0	20.5	13.25	13.61	13.08	0.0	14.0
		16QAM	1	1	19.09	20.09	19.06	1.0	20.5	13.22	13.65	13.13	0.0	14.0
		64QAM	1	1	17.91	18.16	17.48	2.5	19.0	13.15	13.60	13.10	0.0	14.0
		256QAM	1	1	15.34	16.21	15.34	4.5	17.0	13.16	13.58	13.16	0.0	14.0
	CP-OFDM	QPSK	1	1	18.50	19.53	18.29	1.5	20.0	13.17	13.57	13.10	0.0	14.0

NR Band n41 (Main.1 SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					503202	513468		523734	534000			503202	513468		523734	534000		
					2516.01 MHz	2567.34 MHz		2618.67 MHz	2670 MHz			2516.01 MHz	2567.34 MHz		2618.67 MHz	2670 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	20.20	20.86		20.00	19.83	0.0	21.5	13.18	13.60		13.04	13.16	0.0	14.0
			1	53	20.24	20.78		20.52	19.87	0.0	21.5	13.17	13.58		13.11	13.10	0.0	14.0
			1	104	20.29	20.97		20.34	20.24	0.0	21.5	13.30	13.65		13.10	13.24	0.0	14.0
			50	0	19.75	20.54		19.93	19.55	0.5	21.0	13.27	13.55		13.04	13.17	0.0	14.0
			50	28	20.19	20.88		20.35	20.05	0.0	21.5	13.23	13.56		13.11	13.14	0.0	14.0
			50	56	19.82	20.30		20.12	19.42	0.5	21.0	13.12	13.46		13.10	13.07	0.0	14.0
			100	0	19.77	20.39		20.09	19.66	0.5	21.0	13.35	13.52		13.05	13.08	0.0	14.0
		QPSK	1	1	20.01	20.73		20.00	20.07	0.0	21.5	13.27	13.69		13.17	13.16	0.0	14.0
			1	53	20.15	20.65		19.78	20.05	0.0	21.5	13.34	13.57		13.21	13.18	0.0	14.0
			1	104	20.40	20.88		20.40	20.00	0.0	21.5	13.21	13.59		13.09	13.16	0.0	14.0
			50	0	19.06	19.68		18.92	18.91	1.0	20.5	13.17	13.51		13.07	13.18	0.0	14.0
			50	28	20.18	20.76		20.05	19.95	0.0	21.5	13.28	13.53		13.06	13.07	0.0	14.0
			50	56	19.16	19.88		19.08	19.04	1.0	20.5	13.25	13.56		13.13	13.09	0.0	14.0
			100	0	19.44	19.79		19.33	19.08	1.0	20.5	13.21	13.54		13.08	13.09	0.0	14.0
		16QAM	1	1	19.00	19.87		19.15	19.11	1.0	20.5	13.34	13.65		13.00	13.19	0.0	14.0
		64QAM	1	1	17.83	17.92		17.92	17.53	2.5	19.0	13.13	13.58		13.05	13.05	0.0	14.0
		256QAM	1	1	15.42	15.99		15.61	15.38	4.5	17.0	13.22	13.58		12.99	13.16	0.0	14.0
	CP-OFDM	QPSK	1	1	18.50	19.27		18.58	18.33	1.5	20.0	13.28	13.53		12.94	13.07	0.0	14.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					502200	510402	518598	526800	534996			502200	510402	518598	526800	534996		
					2511 MHz	2552.01 MHz	2592.99 MHz	2634 MHz	2674.98 MHz			2511 MHz	2552.01 MHz	2592.99 MHz	2634 MHz	2674.98 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	20.11	20.85	21.02	20.06	19.92	0.0	21.5	13.17	13.62	13.67	13.16	13.21	0.0	14.0
			1	39	20.25	20.79	21.18	20.52	19.89	0.0	21.5	13.22	13.60	13.78	13.21	13.11	0.0	14.0
			1	76	20.21	20.92	20.91	20.33	20.18	0.0	21.5	13.22	13.63	13.78	13.09	13.18	0.0	14.0
			36	0	19.79	20.52	20.19	20.00	19.53	0.5	21.0	13.27	13.52	13.57	13.08	13.21	0.0	14.0
			36	21	20.18	20.93	20.79	20.40	20.10	0.0	21.5	13.22	13.51	13.68	13.08	13.19	0.0	14.0
			36	42	19.86	20.29	20.34	20.05	19.47	0.5	21.0	13.19	13.49	13.57	13.17	13.12	0.0	14.0
			75	0	19.77	20.34	20.51	20.08	19.56	0.5	21.0	13.33	13.56	13.69	13.06	13.05	0.0	14.0
		QPSK	1	1	20.08	20.68	20.85	20.06	20.00	0.0	21.5	13.20	13.69	13.65	13.22	13.22	0.0	14.0
			1	39	20.25	20.70	20.58	19.88	20.08	0.0	21.5	13.36	13.57	13.76	13.10	13.18	0.0	14.0
			1	76	20.34	20.89	20.85	20.38	19.95	0.0	21.5	13.26	13.47	13.73	13.15	13.12	0.0	14.0
			36	0	19.15	19.75	19.72	18.88	18.97	1.0	20.5	13.21	13.51	13.62	12.98	13.14	0.0	14.0
			36	21	20.21	20.81	20.74	20.10	19.98	0.0	21.5	13.17	13.55	13.70	13.17	13.05	0.0	14.0
			36	42	19.18	19.81	20.06	19.14	18.94	1.0	20.5	13.17	13.59	13.66	13.05	13.05	0.0	14.0
			75	0	19.35	19.83	19.80	19.23	18.99	1.0	20.5	13.18	13.50	13.59	13.07	13.17	0.0	14.0
		16QAM	1	1	19.09	19.86	20.03	19.24	19.10	1.0	20.5	13.32	13.55	13.67	13.05	13.17	0.0	14.0
		64QAM	1	1	17.74	18.02	18.18	17.82	17.46	2.5	19.0	13.17	13.50	13.55	12.94	13.08	0.0	14.0
		256QAM	1	1	15.52	16.07	16.23	15.70	15.32	4.5	17.0	13.15	13.56	13.47	13.05	13.12	0.0	14.0
	CP-OFDM	QPSK	1	1	18.48	19.19	19.35	18.49	18.27	1.5	20.0	13.19	13.47	13.61	13.05	13.13	0.0	14.0

NR Band n41 (Main.1 SRS0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					501204	509898	518598	527298	535998			501204	509898	518598	527298	535998		
					2506.02 MHz	2549.49 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz			2506.02 MHz	2549.49 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	20.07	20.81	20.95	20.10	19.85	0.0	21.5	13.20	13.54	13.63	13.05	13.23	0.0	14.0
			1	26	20.25	20.70	21.08	20.60	19.99	0.0	21.5	13.23	13.55	13.76	13.19	13.17	0.0	14.0
			1	49	20.29	20.83	20.91	20.41	20.09	0.0	21.5	13.22	13.66	13.80	13.11	13.13	0.0	14.0
			25	0	19.83	20.44	20.29	20.08	19.54	0.5	21.0	13.31	13.57	13.61	13.07	13.14	0.0	14.0
			25	13	20.24	20.84	20.80	20.42	20.18	0.0	21.5	13.20	13.48	13.68	13.06	13.21	0.0	14.0
			25	26	19.78	20.24	20.36	20.02	19.56	0.5	21.0	13.24	13.45	13.53	13.13	13.06	0.0	14.0
			50	0	19.73	20.33	20.58	20.01	19.65	0.5	21.0	13.24	13.55	13.70	13.04	13.17	0.0	14.0
		QPSK	1	1	20.02	20.76	20.89	20.16	20.09	0.0	21.5	13.27	13.71	13.67	13.14	13.18	0.0	14.0
			1	26	20.18	20.75	20.61	19.94	20.07	0.0	21.5	13.31	13.60	13.70	13.09	13.24	0.0	14.0
			1	49	20.37	20.87	20.91	20.36	20.04	0.0	21.5	13.19	13.53	13.65	13.16	13.06	0.0	14.0
			25	0	19.12	19.85	19.74	18.98	18.98	1.0	20.5	13.24	13.53	13.60	13.09	13.07	0.0	14.0
			25	13	20.25	20.75	20.78	20.01	20.08	0.0	21.5	13.26	13.56	13.58	13.05	13.16	0.0	14.0
			25	26	19.28	19.86	20.00	19.04	19.03	1.0	20.5	13.17	13.59	13.58	13.15	13.13	0.0	14.0
			50	0	19.28	19.86	19.83	19.19	18.93	1.0	20.5	13.20	13.52	13.68	13.04	13.10	0.0	14.0
		16QAM	1	1	19.18	19.89	20.00	19.24	19.12	1.0	20.5	13.30	13.62	13.54	13.12	13.17	0.0	14.0
		64QAM	1	1	17.65	18.05	18.14	17.74	17.40	2.5	19.0	13.17	13.55	13.57	12.93	13.11	0.0	14.0
		256QAM	1	1	15.56	16.08	16.32	15.60	15.35	4.5	17.0	13.13	13.57	13.47	13.00	13.11	0.0	14.0
	CP-OFDM	QPSK	1	1	18.52	19.14	19.32	18.52	18.23	1.5	20.0	13.24	13.53	13.53	12.95	13.14	0.0	14.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					500700	509652	518598	527550	536496			500700	509652	518598	527550	536496		
					2503.5 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz			2503.5 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.98	20.73	20.96	20.20	19.94	0.0	21.5	13.17	13.61	13.63	13.11	13.23	0.0	14.0
			1	19	20.20	20.64	21.00	20.50	19.99	0.0	21.5	13.29	13.49	13.74	13.24	13.12	0.0	14.0
			1	36	20.34	20.91	20.98	20.37	20.09	0.0	21.5	13.23	13.53	13.71	13.19	13.21	0.0	14.0
			18	0	19.79	20.43	20.37	19.98	19.52	0.5	21.0	13.30	13.56	13.56	13.08	13.14	0.0	14.0
			18	10	20.19	20.91	20.83	20.49	20.12	0.0	21.5	13.21	13.55	13.57	13.08	13.15	0.0	14.0
			18	20	19.77	20.27	20.28	20.00	19.60	0.5	21.0	13.19	13.57	13.54	13.11	13.13	0.0	14.0
			36	0	19.74	20.43	20.50	19.94	19.60	0.5	21.0	13.33	13.61	13.62	13.09	13.07	0.0	14.0
		QPSK	1	1	20.05	20.85	20.84	20.12	20.06	0.0	21.5	13.23	13.65	13.66	13.22	13.10	0.0	14.0
			1	19	20.28	20.71	20.63	20.03	20.09	0.0	21.5	13.30	13.66	13.77	13.11	13.20	0.0	14.0
			1	36	20.36	20.79	20.82	20.29	20.04	0.0	21.5	13.24	13.46	13.71	13.21	13.07	0.0	14.0
			18	0	19.12	19.91	19.74	18.99	19.03	1.0	20.5	13.20	13.56	13.65	13.07	13.12	0.0	14.0
			18	10	20.21	20.80	20.70	20.03	20.06	0.0	21.5	13.23	13.56	13.57	13.17	13.15	0.0	14.0
			18	20	19.31	19.96	19.91	19.09	19.02	1.0	20.5	13.15	13.46	13.63	13.06	13.15	0.0	14.0
			36	0	19.21	19.92	19.89	19.17	18.91	1.0	20.5	13.20	13.54	13.60	13.13	13.12	0.0	14.0
		16QAM	1	1	19.09	19.83	19.90	19.29	19.05	1.0	20.5	13.33	13.57	13.55	13.08	13.11	0.0	14.0
		64QAM	1	1	17.57	18.15	18.24	17.67	17.44	2.5	19.0	13.13	13.46	13.56	13.00	13.13	0.0	14.0
		256QAM	1	1	15.50	16.16	16.37	15.69	15.44	4.5	17.0	13.17	13.53	13.59	12.98	13.10	0.0	14.0
	CP-OFDM	QPSK	1	1	18.45	19.15	19.30	18.58	18.22	1.5	20.0	13.16	13.57	13.55	13.02	13.08	0.0	14.0

NR Band n41 (Main.1 SRS 0) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					500202	509400	518598	527802	537000			500202	509400	518598	527802	537000		
					2501.01 MHz	2547 MHz	2592.99 MHz	2639.01 MHz	2685 MHz			2501.01 MHz	2547 MHz	2592.99 MHz	2639.01 MHz	2685 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	20.04	20.76	20.90	20.17	19.98	0.0	21.5	13.19	13.60	13.67	13.09	13.20	0.0	14.0
			1	12	20.30	20.73	20.91	20.41	20.07	0.0	21.5	13.23	13.55	13.76	13.17	13.13	0.0	14.0
			1	22	20.33	20.85	20.93	20.34	20.01	0.0	21.5	13.27	13.59	13.73	13.13	13.17	0.0	14.0
			12	0	19.77	20.50	20.37	20.04	19.46	0.5	21.0	13.30	13.58	13.60	13.05	13.15	0.0	14.0
			12	6	20.24	20.82	20.92	20.52	20.05	0.0	21.5	13.17	13.50	13.63	13.12	13.15	0.0	14.0
			12	12	19.80	20.34	20.37	19.94	19.61	0.5	21.0	13.18	13.50	13.57	13.12	13.06	0.0	14.0
			24	0	19.75	20.51	20.50	20.01	19.50	0.5	21.0	13.28	13.56	13.63	13.05	13.10	0.0	14.0
		QPSK	1	1	20.12	20.78	20.89	20.19	20.02	0.0	21.5	13.25	13.66	13.69	13.15	13.16	0.0	14.0
			1	12	20.21	20.70	20.67	20.11	20.04	0.0	21.5	13.29	13.60	13.73	13.14	13.18	0.0	14.0
			1	22	20.27	20.77	20.73	20.21	20.11	0.0	21.5	13.23	13.52	13.66	13.15	13.12	0.0	14.0
			12	0	19.22	19.84	19.81	19.08	18.97	1.0	20.5	13.23	13.57	13.61	13.02	13.11	0.0	14.0
			12	6	20.23	20.74	20.64	20.06	20.04	0.0	21.5	13.22	13.56	13.63	13.11	13.11	0.0	14.0
			12	12	19.23	19.91	19.97	19.01	19.02	1.0	20.5	13.18	13.52	13.63	13.11	13.09	0.0	14.0
			24	0	19.25	19.86	19.84	19.11	18.98	1.0	20.5	13.21	13.53	13.61	13.08	13.11	0.0	14.0
		16QAM	1	1	19.13	19.77	19.83	19.19	19.04	1.0	20.5	13.27	13.58	13.60	13.05	13.17	0.0	14.0
		64QAM	1	1	17.56	18.17	18.24	17.59	17.45	2.5	19.0	13.18	13.52	13.53	12.98	13.10	0.0	14.0
		256QAM	1	1	15.53	16.13	16.28	15.59	15.45	4.5	17.0	13.19	13.53	13.53	13.00	13.12	0.0	14.0
	CP-OFDM	QPSK	1	1	18.55	19.08	19.40	18.59	18.32	1.5	20.0	13.21	13.52	13.55	12.98	13.11	0.0	14.0

NR Band n41 (Sub.2 SRS1) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)														
		DSI =0							DSI =1							
		Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		509202		518598		526000			509202		518598		526000		
		2546.01 MHz		2592.99 MHz		2640 MHz			2546.01 MHz		2592.99 MHz		2640 MHz		
100 MHz	SRS CW			19.1			0.0	20.0			13.4			0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		508200				528996			508200				528996		
		2541 MHz				2644.98 MHz			2541 MHz				2644.98 MHz		
90 MHz	SRS CW	19.6				18.9	0.0	20.0	12.3				12.2	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		507204				529998			507204				529998		
		2536.02 MHz				2649.99 MHz			2536.02 MHz				2649.99 MHz		
80 MHz	SRS CW	19.5				19.2	0.0	20.0	12.2				11.5	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		506202				531000			506202				531000		
		2531.01 MHz				2655 MHz			2531.01 MHz				2655 MHz		
70 MHz	SRS CW	18.5				19.5	0.0	20.0	12.3				11.8	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		505200		518598		531996			505200		518598		531996		
		2526 MHz		2592.99 MHz		2659.98 MHz			2526 MHz		2592.99 MHz		2659.98 MHz		
60 MHz	SRS CW	19.4		19.1		19.6	0.0	20.0	12.3		11.6		11.8	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		504204		518598		532998			504204		518598		532998		
		2512.02 MHz		2592.99 MHz		2664.99 MHz			2512.02 MHz		2592.99 MHz		2664.99 MHz		
50 MHz	SRS CW	18.9		19.1		19.4	0.0	20.0	11.6		11.6		11.7	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		503202	513468		523734	534000			503202	513468		523734	534000		
		2516.01 MHz	2567.34 MHz		2618.67 MHz	2670 MHz			2516.01 MHz	2567.34 MHz		2618.67 MHz	2670 MHz		
40 MHz	SRS CW	19.0	18.7		19.0	18.7	0.0	20.0	11.9	12.1		12.3	11.9	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		502200	510402	518598	526800	534996			502200	510402	518598	526800	534996		
		2511 MHz	2552.01 MHz	2592.99 MHz	2634 MHz	2674.98 MHz			2511 MHz	2552.01 MHz	2592.99 MHz	2634 MHz	2674.98 MHz		
30 MHz	SRS CW	19.1	18.2	18.9	18.4	19.5	0.0	20.0	11.8	12.2	11.6	12.2	11.6	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		501204	509898	518598	527298	535998			501204	509898	518598	527298	535998		
		2506.02 MHz	2549.49 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz			2506.02 MHz	2549.49 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz		
20 MHz	SRS CW	18.5	17.8	18.7	18.0	19.3	0.0	20.0	11.9	12.2	11.7	12.3	12.1	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		500700	509652	518598	527550	536496			500700	509652	518598	527550	536496		
		2503.5 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz			2503.5 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz		
15 MHz	SRS CW	18.1	17.8	18.4	17.7	18.6	0.0	20.0	12.1	12.2	11.7	12.2	12.3	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		500202	509400	518598	527802	537000			500202	509400	518598	527802	537000		
		2501.01 MHz	2547 MHz	2592.99 MHz	2639.01 MHz	2685 MHz			2501.01 MHz	2547 MHz	2592.99 MHz	2639.01 MHz	2685 MHz		
10 MHz	SRS CW	18.0	19.1	19.1	17.8	18.3	0.0	20.0	12.1	12.3	11.7	12.3	12.2	0.0	14.0

Notes:

1. NR Band n41 (SRS1) were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Sub.4 SRS2) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)														
		DSI =0							DSI =1							
		Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		509202		518598		528000			509202		518598		528000		
		2546.01 MHz		2592.99 MHz		2640 MHz			2546.01 MHz		2592.99 MHz		2640 MHz		
100 MHz	SRS CW			19.6			0.0	20.0			13.1			0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		508200				528996			508200				528996		
		2541 MHz				2644.98 MHz			2541 MHz				2644.98 MHz		
90 MHz	SRS CW	19.4				20.0	0.0	20.0	13.5				13.7	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		507204				529998			507204				529998		
		2536.02 MHz				2649.99 MHz			2536.02 MHz				2649.99 MHz		
80 MHz	SRS CW	19.4				19.9	0.0	20.0	13.5				13.4	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		506202				531000			506202				531000		
		2531.01 MHz				2655 MHz			2531.01 MHz				2655 MHz		
70 MHz	SRS CW	19.9				19.9	0.0	20.0	13.5				13.5	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		505200		518598		531996			505200		518598		531996		
		2526 MHz		2592.99 MHz		2659.98 MHz			2526 MHz		2592.99 MHz		2659.98 MHz		
60 MHz	SRS CW	19.2		19.5		19.8	0.0	20.0	13.3		13.7		13.1	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		504204		518598		532998			504204		518598		532998		
		2512.02 MHz		2592.99 MHz		2664.99 MHz			2512.02 MHz		2592.99 MHz		2664.99 MHz		
50 MHz	SRS CW	18.8		19.7		18.9	0.0	20.0	12.9		13.8		12.9	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		503202	513468		523734	534000			503202	513468		523734	534000		
		2516.01 MHz	2567.34 MHz		2618.67 MHz	2670 MHz			2516.01 MHz	2567.34 MHz		2618.67 MHz	2670 MHz		
40 MHz	SRS CW	19.2	19.0		19.8	19.6	0.0	20.0	13.1	12.5		13.6	12.9	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		502200	510402	518598	526800	534996			502200	510402	518598	526800	534996		
		2511 MHz	2552.01 MHz	2592.99 MHz	2634 MHz	2674.98 MHz			2511 MHz	2552.01 MHz	2592.99 MHz	2634 MHz	2674.98 MHz		
30 MHz	SRS CW	18.9	18.8	19.9	18.9	19.2	0.0	20.0	12.6	13.1	13.0	13.9	13.0	0.0	14.0
BW (MHz)	Mode						MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		501204	509898	518598	527298	535998			501204	509898	518598	527298	535998		
		2506.02 MHz	2549.49 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz			2506.02 MHz	2549.49 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz		
20 MHz	SRS CW	18.8	19.6	19.9	19.4	19.1	0.0	20.0	12.2	13.9	13.7	13.9	13.2	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		500700	509652	518598	527550	536496			500700	509652	518598	527550	536496		
		2503.5 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz			2503.5 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz		
15 MHz	SRS CW	18.7	18.9	19.8	18.8	19.2	0.0	20.0	12.5	13.9	13.8	13.9	13.2	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		500202	509400	518598	527802	537000			500202	509400	518598	527802	537000		
		2501.01 MHz	2547 MHz	2592.99 MHz	2639.01 MHz	2685 MHz			2501.01 MHz	2547 MHz	2592.99 MHz	2639.01 MHz	2685 MHz		
10 MHz	SRS CW	18.8	19.8	19.9	19.6	19.9	0.0	20.0	12.5	13.9	13.8	13.9	12.7	0.0	14.0

Notes:

2. NR Band n41 (SRS2) were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Sub.1 SRS3) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)														
		DSI =0							DSI =1							
		Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		509202		518598		528000			509202		518598		528000		
		2546.01 MHz		2592.99 MHz		2640 MHz			2546.01 MHz		2592.99 MHz		2640 MHz		
100 MHz	SRS CW			16.8			0.0	17.5			13.2			0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		508200				528996			508200				528996		
		2541 MHz				2644.98 MHz			2541 MHz				2644.98 MHz		
90 MHz	SRS CW	16.9				15.9	0.0	17.5	13.9				13.6	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		507204				529998			507204				529998		
		2536.02 MHz				2649.99 MHz			2536.02 MHz				2649.99 MHz		
80 MHz	SRS CW	17.4				16.0	0.0	17.5	13.9				13.2	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		506202				531000			506202				531000		
		2531.01 MHz				2655 MHz			2531.01 MHz				2655 MHz		
70 MHz	SRS CW	17.0				17.4	0.0	17.5	13.6				12.9	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		505200		518598		531996			505200		518598		531996		
		2526 MHz		2592.99 MHz		2659.98 MHz			2526 MHz		2592.99 MHz		2659.98 MHz		
60 MHz	SRS CW	16.0		17.4		15.6	0.0	17.5	13.4		12.9		13.3	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		504204		518598		532998			504204		518598		532998		
		2512.02 MHz		2592.99 MHz		2664.99 MHz			2512.02 MHz		2592.99 MHz		2664.99 MHz		
50 MHz	SRS CW	16.1		17.4		15.9	0.0	17.5	13.5		12.9		12.7	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		503202	513468		523734	534000			503202	513468		523734	534000		
		2516.01 MHz	2567.34 MHz		2618.67 MHz	2670 MHz			2516.01 MHz	2567.34 MHz		2618.67 MHz	2670 MHz		
40 MHz	SRS CW	17.4	17.0		17.4	16.5	0.0	17.5	12.7	13.1		13.6	12.8	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		502200	510402	518598	526800	534996			502200	510402	518598	526800	534996		
		2511 MHz	2552.01 MHz	2592.99 MHz	2634 MHz	2674.98 MHz			2511 MHz	2552.01 MHz	2592.99 MHz	2634 MHz	2674.98 MHz		
30 MHz	SRS CW	17.4	17.0	17.4	15.8	17.3	0.0	17.5	13.5	12.8	12.9	12.7	13.0	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		501204	509898	518598	527298	535998			501204	509898	518598	527298	535998		
		2506.02 MHz	2549.49 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz			2506.02 MHz	2549.49 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz		
20 MHz	SRS CW	16.8	16.5	17.4	15.6	17.2	0.0	17.5	13.7	13.3	13.0	11.8	13.5	0.0	14.0
BW (MHz)	Mode	3.00					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		500700	509652	518598	527550	536496			500700	509652	518598	527550	536496		
		2503.5 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz			2503.5 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz		
15 MHz	SRS CW	17.0	16.5	17.4	15.3	17.0	0.0	17.5	13.5	13.0	13.1	12.8	13.2	0.0	14.0
BW (MHz)	Mode	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
		500202	509400	518598	527802	537000			500202	509400	518598	527802	537000		
		2501.01 MHz	2547 MHz	2592.99 MHz	2639.01 MHz	2685 MHz			2501.01 MHz	2547 MHz	2592.99 MHz	2639.01 MHz	2685 MHz		
10 MHz	SRS CW	16.7	16.5	17.4	15.3	16.9	0.0	17.5	13.5	13.2	13.0	11.5	13.7	0.0	14.0

Notes:

3. NR Band n41 (SRS3) were measured output power through FTM mode provided by manufacturer.

NR Band n66 Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)										
					DSI = 0					DSI = 1					
					Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					346000	349000	352000			346000	349000	352000		
					1730 MHz	1745 MHz	1760 MHz			1730 MHz	1745 MHz	1760 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1		23.19		0.0	25		12.21		0.0	13
			1	108		23.49		0.0	25		12.23		0.0	13
			1	214		23.50		0.0	25		12.27		0.0	13
			108	0		22.42		0.5	24.5		12.31		0.0	13
			108	54		23.60		0.0	25		12.28		0.0	13
			108	108		22.72		0.5	24.5		12.25		0.0	13
			216	0		22.61		0.5	24.5		12.10		0.0	13
		QPSK	1	1		23.35		0.00	25		12.08		0.00	13
			1	108		23.69		0.00	25		12.25		0.00	13
			1	214		23.59		0.00	25		12.21		0.00	13
			108	0		22.50		1.00	24		12.11		0.00	13
			108	54		23.69		0.00	25		12.35		0.00	13
			108	108		22.79		1.00	24		12.24		0.00	13
			216	0		22.66		1.00	24		12.15		0.00	13
		16QAM	1	1		22.42		1.0	24		12.16		0.0	13
		64QAM	1	1		21.00		2.5	22.5		12.11		0.0	13
		256QAM	1	1		18.95		4.5	20.5		11.71		0.0	13
	CP-OFDM	QPSK	1	1		21.88		1.5	23.5		11.76		0.0	13
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					345000	349000	353000			345000	349000	353000		
					1725 MHz	1745 MHz	1765 MHz			1725 MHz	1745 MHz	1765 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1		23.63		0.0	25		12.09		0.0	13
			1	80		23.64		0.0	25		12.15		0.0	13
			1	158		23.61		0.0	25		12.38		0.0	13
			80	0		22.82		0.5	24.5		12.12		0.0	13
			80	40		23.61		0.0	25		12.20		0.0	13
			80	80		23.18		0.5	24.5		12.46		0.0	13
			160	0		22.93		0.5	24.5		12.18		0.0	13
		QPSK	1	1		23.61		0.0	25		12.18		0.0	13
			1	80		23.64		0.0	25		12.23		0.0	13
			1	158		23.57		0.0	25		12.44		0.0	13
			80	0		22.91		1.0	24		12.11		0.0	13
			80	40		23.61		0.0	25		12.20		0.0	13
			80	80		23.20		1.0	24		12.44		0.0	13
			160	0		22.99		1.0	24		12.18		0.0	13
		16QAM	1	1		22.82		1.0	24		12.11		0.0	13
		64QAM	1	1		21.50		2.5	22.5		12.15		0.0	13
		256QAM	1	1		19.04		4.5	20.5		11.87		0.0	13
	CP-OFDM	QPSK	1	1		21.98		1.5	23.5		11.91		0.0	13

NR Band n66 Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					344500	349000	353500			344500	349000	353500		
					1722.5 MHz	1745 MHz	1767.5 MHz			1722.5 MHz	1745 MHz	1767.5 MHz		
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1		23.46		0.0	25		11.77		0.0	13
			1	67		23.52		0.0	25		11.78		0.0	13
			1	131		23.77		0.0	25		12.13		0.0	13
			64	0		22.58		0.5	24.5		11.79		0.0	13
			64	35		23.66		0.0	25		11.90		0.0	13
			64	69		22.90		0.5	24.5		12.14		0.0	13
			128	0		22.69		0.5	24.5		11.88		0.0	13
		QPSK	1	1		23.26		0.0	25		11.86		0.0	13
			1	67		23.63		0.0	25		11.87		0.0	13
			1	131		23.46		0.0	25		12.22		0.0	13
			64	0		22.64		1.0	24		11.80		0.0	13
			64	35		23.66		0.0	25		11.90		0.0	13
			64	69		22.75		1.0	24		12.14		0.0	13
			128	0		22.73		1.0	24		11.86		0.0	13
		16QAM	1	1		22.39		1.0	24		11.87		0.0	13
		64QAM	1	1		21.32		2.5	22.5		11.69		0.0	13
		256QAM	1	1		19.20		4.5	20.5		11.68		0.0	13
	CP-OFDM	QPSK	1	1		22.10		1.5	23.5		11.87		0.0	13

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					344000	349000	354000			344000	349000	354000		
					1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.50	23.15	22.98	0.0	25	11.84	11.81	12.05	0.0	13
			1	53	23.00	23.68	23.64	0.0	25	11.88	11.89	12.03	0.0	13
			1	104	23.50	23.31	23.45	0.0	25	11.86	12.20	12.07	0.0	13
			50	0	23.21	22.52	22.45	0.5	24.5	11.93	11.84	12.10	0.0	13
			50	28	22.92	23.58	23.54	0.0	25	11.93	11.94	12.07	0.0	13
			50	56	22.40	22.66	22.69	0.5	24.5	11.91	12.14	12.08	0.0	13
			100	0	22.02	22.59	22.55	0.5	24.5	11.91	11.92	12.07	0.0	13
		QPSK	1	1	23.01	22.84	22.62	0.0	25	11.93	11.86	12.07	0.0	13
			1	53	22.73	23.47	23.38	0.0	25	11.97	11.99	12.16	0.0	13
			1	104	23.29	23.12	23.23	0.0	25	11.90	12.24	12.04	0.0	13
			50	0	21.56	22.40	22.29	1.0	24	11.93	11.83	12.10	0.0	13
			50	28	22.80	23.50	23.42	0.0	25	11.91	11.92	12.06	0.0	13
			50	56	22.29	22.58	22.58	1.0	24	11.91	12.15	12.06	0.0	13
			100	0	21.93	22.54	22.47	1.0	24	11.92	11.91	12.06	0.0	13
		16QAM	1	1	22.51	22.04	21.79	1.0	24	11.98	11.85	12.11	0.0	13
		64QAM	1	1	20.15	20.84	20.79	2.5	22.5	11.86	11.80	12.11	0.0	13
		256QAM	1	1	18.77	19.11	19.41	4.5	20.5	11.87	11.77	12.08	0.0	13
	CP-OFDM	QPSK	1	1	21.56	21.84	21.57	1.5	23.5	11.92	11.93	12.09	0.0	13

NR Band n66 Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					343500	349000	354500			343500	349000	354500		
					1717.5 MHz	1745 MHz	1772.5 MHz			1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.53	23.29	23.25	0.0	25	11.89	11.94	12.35	0.0	13
			1	40	23.30	23.55	23.69	0.0	25	11.81	11.95	11.73	0.0	13
			1	77	23.30	23.42	23.41	0.0	25	11.89	11.80	11.89	0.0	13
			36	0	22.32	22.61	22.62	0.5	24.5	11.94	11.84	11.90	0.0	13
			36	22	23.13	23.71	23.68	0.0	25	11.94	12.17	12.03	0.0	13
			36	43	22.42	22.81	22.72	0.5	24.5	11.93	11.83	11.94	0.0	13
			75	0	22.11	22.73	22.64	0.5	24.5	11.94	11.95	12.07	0.0	13
		QPSK	1	1	22.56	22.90	22.80	0.0	25	11.94	12.09	12.04	0.0	13
			1	40	22.93	23.65	23.50	0.0	25	11.88	11.92	12.06	0.0	13
			1	77	22.98	23.15	23.12	0.0	25	11.93	11.82	12.09	0.0	13
			36	0	21.69	22.48	22.42	1.0	24	11.96	11.84	12.06	0.0	13
			36	22	22.97	23.64	23.52	0.0	25	11.95	12.21	12.07	0.0	13
			36	43	22.26	22.68	22.59	1.0	24	11.94	11.82	11.98	0.0	13
			75	0	21.98	22.61	22.52	1.0	24	11.97	11.91	12.10	0.0	13
		16QAM	1	1	22.54	22.05	21.95	1.0	24	12.11	12.08	12.04	0.0	13
		64QAM	1	1	20.08	20.91	20.93	2.5	22.5	12.03	11.90	12.04	0.0	13
		256QAM	1	1	18.81	19.20	19.32	4.5	20.5	11.98	11.97	12.07	0.0	13
	CP-OFDM	QPSK	1	1	21.56	21.70	21.67	1.5	23.5	11.94	11.98	12.05	0.0	13
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					343000	349000	355000			343000	349000	355000		
					1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.04	23.54	23.82	0.0	25	12.13	11.96	11.82	0.0	13
			1	26	23.33	23.66	23.88	0.0	25	12.06	11.98	11.91	0.0	13
			1	50	23.45	23.76	23.86	0.0	25	12.18	12.06	12.01	0.0	13
			25	0	22.19	22.68	22.93	0.5	24.5	11.91	12.09	11.94	0.0	13
			25	14	23.21	23.77	23.78	0.0	25	11.95	11.96	11.85	0.0	13
			25	27	22.54	22.89	22.97	0.5	24.5	12.13	11.95	12.04	0.0	13
			50	0	22.34	22.78	22.90	0.5	24.5	11.92	11.90	12.24	0.0	13
		QPSK	1	1	22.62	23.27	23.40	0.0	25	12.05	11.94	11.84	0.0	13
			1	26	23.02	23.54	23.59	0.0	25	11.94	11.71	11.70	0.0	13
			1	50	23.22	23.52	23.58	0.0	25	11.97	11.81	11.89	0.0	13
			25	0	22.01	22.63	22.74	1.0	24	12.00	12.03	12.15	0.0	13
			25	14	23.07	23.63	23.65	0.0	25	11.99	11.80	12.19	0.0	13
			25	27	22.42	22.80	22.84	1.0	24	11.99	11.88	12.23	0.0	13
			50	0	22.22	22.72	22.78	1.0	24	11.96	12.00	12.20	0.0	13
		16QAM	1	1	21.85	22.52	22.58	1.0	24	12.12	11.89	12.22	0.0	13
		64QAM	1	1	20.76	21.25	21.51	2.5	22.5	11.98	11.80	12.26	0.0	13
		256QAM	1	1	19.34	19.22	19.43	4.5	20.5	11.96	11.91	12.22	0.0	13
	CP-OFDM	QPSK	1	1	21.60	22.11	22.30	1.5	23.5	11.97	12.08	12.23	0.0	13

NR Band n66 Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					342500	349000	355500			342500	349000	355500		
					1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.07	23.67	23.68	0.0	25	12.37	12.05	12.47	0.0	13
			1	13	23.10	23.68	23.68	0.0	25	12.28	12.05	12.47	0.0	13
			1	23	23.15	23.63	23.81	0.0	25	12.21	11.98	12.50	0.0	13
			12	0	22.12	22.74	22.82	0.5	24.5	12.21	12.06	12.51	0.0	13
			12	7	23.00	23.64	23.85	0.0	25	12.25	12.04	12.50	0.0	13
			12	13	22.25	22.81	22.88	0.5	24.5	12.22	12.05	12.47	0.0	13
			25	0	22.16	22.78	22.89	0.5	24.5	12.20	12.05	12.45	0.0	13
		QPSK	1	1	22.64	23.37	23.72	0.0	25	12.28	12.05	12.51	0.0	13
			1	13	22.75	23.45	23.75	0.0	25	12.25	12.08	12.49	0.0	13
			1	23	22.88	23.49	23.79	0.0	25	12.18	12.00	12.51	0.0	13
			12	0	21.92	22.65	22.90	1.0	24	12.10	12.14	12.52	0.0	13
			12	7	22.81	23.56	23.83	0.0	25	12.26	12.19	12.52	0.0	13
			12	13	22.08	22.73	22.93	1.0	24	11.97	12.03	12.55	0.0	13
			25	0	21.99	22.70	22.92	1.0	24	11.92	12.04	12.45	0.0	13
		16QAM	1	1	21.83	22.60	22.91	1.0	24	12.03	11.89	12.40	0.0	13
		64QAM	1	1	20.77	21.31	21.24	2.5	22.5	12.01	11.80	12.44	0.0	13
		256QAM	1	1	19.18	19.22	19.31	4.5	20.5	12.05	11.91	12.17	0.0	13
	CP-OFDM	QPSK	1	1	21.70	22.16	22.30	1.5	23.5	12.05	11.88	12.35	0.0	13

NR Band n71 Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)										
					DSI = 0					DSI = 1					
					Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					134600	136100	137600			134600	136100	137600		
					673 MHz	680.5 MHz	688 MHz			673 MHz	680.5 MHz	688 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1		22.80		0.0	25		19.00		0.0	20
			1	53		23.39		0.0	25		19.39		0.0	20
			1	104		23.53		0.0	25		19.52		0.0	20
			50	0		22.26		0.5	24.5		19.23		0.0	20
			50	28		23.44		0.0	25		19.41		0.0	20
			50	56		22.60		0.5	24.5		19.57		0.0	20
			100	0		22.43		0.5	24.5		19.40		0.0	20
		QPSK	1	1		23.13		0.0	25		19.06		0.0	20
			1	53		23.82		0.0	25		19.44		0.0	20
			1	104		23.61		0.0	25		19.43		0.0	20
			50	0		22.32		1.0	24		19.24		0.0	20
			50	28		23.74		0.0	25		19.45		0.0	20
			50	56		22.65		1.0	24		19.35		0.0	20
			100	0		22.48		1.0	24		19.40		0.0	20
		16QAM	1	1		22.17		1.0	24		19.05		0.0	20
		64QAM	1	1		20.61		2.5	22.5		19.20		0.0	20
		256QAM	1	1		18.42		4.5	20.5		18.67		0.0	20
	CP-OFDM	QPSK	1	1		21.54		1.5	23.5		18.86		0.0	20
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					134100	136100	138100			134100	136100	138100		
					670.5 MHz	680.5 MHz	690.5 MHz			670.5 MHz	680.5 MHz	690.5 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1		23.16		0.0	25		18.85		0.0	20
			1	40		23.33		0.0	25		19.04		0.0	20
			1	77		23.57		0.0	25		19.25		0.0	20
			36	0		22.32		0.5	24.5		19.02		0.0	20
			36	22		23.43		0.0	25		19.15		0.0	20
			36	43		22.59		0.5	24.5		19.28		0.0	20
			75	0		22.44		0.5	24.5		19.15		0.0	20
		QPSK	1	1		23.21		0.0	25		18.89		0.0	20
			1	40		23.37		0.0	25		19.07		0.0	20
			1	77		23.58		0.0	25		19.31		0.0	20
			36	0		22.34		1.0	24		19.02		0.0	20
			36	22		23.44		0.0	25		19.14		0.0	20
			36	43		22.60		1.0	24		19.27		0.0	20
			75	0		22.46		1.0	24		19.13		0.0	20
		16QAM	1	1		22.23		1.0	24		18.97		0.0	20
		64QAM	1	1		20.69		2.5	22.5		18.75		0.0	20
		256QAM	1	1		18.70		4.5	20.5		18.63		0.0	20
	CP-OFDM	QPSK	1	1		21.73		1.5	23.5		18.78		0.0	20

NR Band n71 Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					133600	136100	138600			133600	136100	138600		
					668 MHz	680.5 MHz	693 MHz			668 MHz	680.5 MHz	693 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.79	23.26	23.58	0.0	25	18.52	18.92	19.25	0.0	20
			1	26	23.02	23.44	23.78	0.0	25	18.77	19.09	19.39	0.0	20
			1	50	23.12	23.57	23.68	0.0	25	18.87	19.24	19.32	0.0	20
			25	0	22.42	22.36	22.73	0.5	24.5	18.65	19.03	19.35	0.0	20
			25	14	22.99	23.44	23.76	0.0	25	18.72	19.11	19.40	0.0	20
			25	27	22.12	22.53	22.76	0.5	24.5	18.83	19.19	19.37	0.0	20
			50	0	22.02	22.46	22.78	0.5	24.5	18.72	19.13	19.39	0.0	20
		QPSK	1	1	22.86	23.28	23.66	0.0	25	18.57	18.97	19.29	0.0	20
			1	26	23.02	23.46	23.82	0.0	25	18.78	19.21	19.59	0.0	20
			1	50	23.19	23.58	23.72	0.0	25	18.87	19.26	19.35	0.0	20
			25	0	21.94	22.39	22.75	1.0	24	18.65	19.05	19.35	0.0	20
			25	14	23.02	23.45	23.78	0.0	25	18.73	19.12	19.40	0.0	20
			25	27	22.15	22.54	22.77	1.0	24	18.83	19.20	19.38	0.0	20
			50	0	22.02	22.47	22.77	1.0	24	18.71	19.11	19.40	0.0	20
		16QAM	1	1	21.97	22.28	22.71	1.0	24	18.64	18.99	19.32	0.0	20
		64QAM	1	1	20.37	20.55	21.24	2.5	22.5	18.56	18.96	19.36	0.0	20
		256QAM	1	1	18.56	18.93	19.06	4.5	20.5	18.42	18.79	19.16	0.0	20
	CP-OFDM	QPSK	1	1	21.35	21.81	22.13	1.5	23.5	18.55	18.97	19.23	0.0	20
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					133100	136100	139100			133100	136100	139100		
					665.5 MHz	680.5 MHz	695.5 MHz			665.5 MHz	680.5 MHz	695.5 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	22.90	23.30	23.72	0.0	25	18.55	19.03	19.44	0.0	20
			1	13	22.87	23.32	23.63	0.0	25	18.53	19.01	19.34	0.0	20
			1	23	23.02	23.48	23.71	0.0	25	18.67	19.17	19.40	0.0	20
			12	0	22.45	22.39	22.78	0.5	24.5	18.60	19.07	19.46	0.0	20
			12	7	22.99	23.44	23.78	0.0	25	18.64	19.11	19.45	0.0	20
			12	13	22.04	22.48	22.77	0.5	24.5	18.67	19.14	19.43	0.0	20
			25	0	22.01	22.43	22.79	0.5	24.5	18.66	19.13	19.45	0.0	20
		QPSK	1	1	22.96	23.39	23.81	0.0	25	18.60	19.04	19.46	0.0	20
			1	13	22.92	23.36	23.71	0.0	25	18.58	19.01	19.37	0.0	20
			1	23	23.05	23.49	23.75	0.0	25	18.70	19.17	19.43	0.0	20
			12	0	21.97	22.41	22.80	1.0	24	18.63	19.08	19.46	0.0	20
			12	7	23.00	23.43	23.77	0.0	25	18.67	19.11	19.45	0.0	20
			12	13	22.04	22.48	22.78	1.0	24	18.68	19.16	19.44	0.0	20
			25	0	22.02	22.46	22.78	1.0	24	18.66	19.13	19.45	0.0	20
		16QAM	1	1	21.84	22.45	22.81	1.0	24	18.63	19.19	19.47	0.0	20
		64QAM	1	1	20.42	20.91	21.41	2.5	22.5	18.48	18.96	19.54	0.0	20
		256QAM	1	1	18.43	18.85	19.40	4.5	20.5	18.40	18.91	19.14	0.0	20
	CP-OFDM	QPSK	1	1	21.45	21.81	22.25	1.5	23.5	18.60	19.04	19.39	0.0	20

NR Band n77(Main.2 SRS0)- Lower Band- Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)										
					DSI = 0					DSI = 1					
					Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
						633334					633334			
						3500.01 MHz					3500.01 MHz			
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1		21.34		0.0	22.0		9.16		0.0	10.0
			1	137		21.88		0.0	22.0		9.62		0.0	10.0
			1	271		21.71		0.0	22.0		9.45		0.0	10.0
			135	0		21.28		0.5	21.5		9.19		0.0	10.0
			135	69		21.88		0.0	22.0		9.59		0.0	10.0
			135	138		21.48		0.5	21.5		9.61		0.0	10.0
			270	0		21.47		0.5	21.5		9.54		0.0	10.0
		QPSK	1	1		21.93		0.0	22.0		9.59		0.0	10.0
			1	137		21.92		0.0	22.0		9.58		0.0	10.0
			1	271		21.76		0.0	22.0		9.43		0.0	10.0
			135	0		20.79		1.0	21.0		9.19		0.0	10.0
			135	69		21.88		0.0	22.0		9.61		0.0	10.0
			135	138		20.91		1.0	21.0		9.60		0.0	10.0
			270	0		20.93		1.0	21.0		9.53		0.0	10.0
		16QAM	1	1		20.68		1.0	21.0		9.11		0.0	10.0
		64QAM	1	1		19.09		2.5	19.5		9.02		0.0	10.0
		256QAM	1	1		17.08		4.5	17.5		9.03		0.0	10.0
	CP-OFDM	QPSK	1	1		20.09		1.5	20.5		9.08		0.0	10.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					633000	633334	633666			633000	633334	633666		
					3495 MHz	3500.01 MHz	3504.99 MHz			3495 MHz	3500.01 MHz	3504.99 MHz		
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1		21.40		0.0	22.0		9.09		0.0	10.0
			1	123		21.86		0.0	22.0		9.59		0.0	10.0
			1	243		21.99		0.0	22.0		9.49		0.0	10.0
			120	0		21.31		0.5	21.5		9.17		0.0	10.0
			120	63		21.89		0.0	22.0		9.57		0.0	10.0
			120	125		21.44		0.5	21.5		9.61		0.0	10.0
			243	0		21.39		0.5	21.5		9.52		0.0	10.0
		QPSK	1	1		21.51		0.0	22.0		9.12		0.0	10.0
			1	123		21.92		0.0	22.0		9.58		0.0	10.0
			1	243		21.92		0.0	22.0		9.48		0.0	10.0
			120	0		20.86		1.0	21.0		9.18		0.0	10.0
			120	63		21.91		0.0	22.0		9.58		0.0	10.0
			120	125		20.93		1.0	21.0		9.62		0.0	10.0
			243	0		20.94		1.0	21.0		9.55		0.0	10.0
		16QAM	1	1		20.84		1.0	21.0		9.13		0.0	10.0
		64QAM	1	1		19.25		2.5	19.5		9.06		0.0	10.0
		256QAM	1	1		17.24		4.5	17.5		9.07		0.0	10.0
	CP-OFDM	QPSK	1	1		20.22		1.5	20.5		9.12		0.0	10.0

Note(s):

NR Band n78 is covered by NR Band n77.

NR Band n77(Main.2 SRS0)- Lower Band- Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					632668	633334	634000			632668	633334	634000		
					3490.02 MHz	3500.01 MHz	3510 MHz			3490.02 MHz	3500.01 MHz	3510 MHz		
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1		21.52		0.0	22.0		9.13		0.0	10.00
			1	109		21.93		0.0	22.0		9.59		0.0	10.00
			1	215		21.92		0.0	22.0		9.54		0.0	10.00
			108	0		21.44		0.5	21.5		9.18		0.0	10.00
			108	55		21.94		0.0	22.0		9.56		0.0	10.00
			108	109		21.43		0.5	21.5		9.62		0.0	10.00
			216	0		21.41		0.5	21.5		9.54		0.0	10.00
		QPSK	1	1		21.67		0.0	22.0		9.12		0.0	10.00
			1	109		21.93		0.0	22.0		9.61		0.0	10.00
			1	215		21.92		0.0	22.0		9.56		0.0	10.00
			108	0		20.91		1.0	21.0		9.19		0.0	10.00
			108	55		21.93		0.0	22.0		9.59		0.0	10.00
			108	109		20.91		1.0	21.0		9.63		0.0	10.00
			216	0		20.93		1.0	21.0		9.56		0.0	10.00
		16QAM	1	1		20.98		1.0	21.0		9.16		0.0	10.00
		64QAM	1	1		19.49		2.5	19.5		9.07		0.0	10.00
		256QAM	1	1		17.41		4.5	17.5		9.09		0.0	10.00
	CP-OFDM	QPSK	1	1		20.48		1.5	20.5		9.14		0.0	10.00

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					632334	633334	634332			632334	633334	634332		
					3485.01 MHz	3500.01 MHz	3514.98 MHz			3485.01 MHz	3500.01 MHz	3514.98 MHz		
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1		21.55		0.0	22.0		9.02		0.0	10.00
			1	95		21.93		0.0	22.0		9.55		0.0	10.00
			1	188		21.81		0.0	22.0		9.54		0.0	10.00
			90	0		21.42		0.5	21.5		9.19		0.0	10.00
			90	50		21.90		0.0	22.0		9.57		0.0	10.00
			90	99		21.44		0.5	21.5		9.61		0.0	10.00
			180	0		21.39		0.5	21.5		9.50		0.0	10.00
		QPSK	1	1		21.57		0.0	22.0		9.15		0.0	10.00
			1	95		21.91		0.0	22.0		9.59		0.0	10.00
			1	188		19.59		0.0	22.0		9.55		0.0	10.00
			90	0		20.92		1.0	21.0		9.22		0.0	10.00
			90	50		21.93		0.0	22.0		9.59		0.0	10.00
			90	99		20.91		1.0	21.0		9.65		0.0	10.00
			180	0		20.93		1.0	21.0		9.57		0.0	10.00
		16QAM	1	1		20.64		1.0	21.0		9.19		0.0	10.00
		64QAM	1	1		19.15		2.5	19.5		9.12		0.0	10.00
		256QAM	1	1		17.21		4.5	17.5		9.13		0.0	10.00
	CP-OFDM	QPSK	1	1		19.15		1.5	20.5		9.16		0.0	10.00

Note(s):

NR Band n78 is covered by NR Band n77.

NR Band n77(Main.2 SRS0)- Lower Band- Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					632000	633334	634666			632000	633334	634666		
					3480 MHz	3500.01 MHz	3519.99 MHz			3480 MHz	3500.01 MHz	3519.99 MHz		
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1		21.93		0.0	22.0		9.13		0.0	10.00
			1	81		22.00		0.0	22.0		9.63		0.0	10.00
			1	160		21.32		0.0	22.0		9.58		0.0	10.00
			81	0		21.43		0.5	21.5		9.29		0.0	10.00
			81	41		21.81		0.0	22.0		9.58		0.0	10.00
			81	81		21.42		0.5	21.5		9.62		0.0	10.00
			162	0		21.45		0.5	21.5		9.56		0.0	10.00
		QPSK	1	1		21.98		0.0	22.0		9.18		0.0	10.00
			1	81		21.98		0.0	22.0		9.63		0.0	10.00
			1	160		20.85		0.0	22.0		9.59		0.0	10.00
			81	0		20.92		1.0	21.0		9.28		0.0	10.00
			81	41		21.28		0.0	22.0		9.61		0.0	10.00
			81	81		20.93		1.0	21.0		9.65		0.0	10.00
			162	0		20.85		1.0	21.0		9.57		0.0	10.00
		16QAM	1	1		19.29		1.0	21.0		9.22		0.0	10.00
		64QAM	1	1		17.29		2.5	19.5		9.12		0.0	10.00
		256QAM	1	1		17.43		4.5	17.5		9.15		0.0	10.00
	CP-OFDM	QPSK	1	1		19.25		1.5	20.5		9.16		0.0	10.00

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					631668	633334	635000			631668	633334	635000		
					3475.02 MHz	3500.01 MHz	3525 MHz			3475.02 MHz	3500.01 MHz	3525 MHz		
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.28		21.57	0.0	22.0	8.98		9.56	0.0	10.00
			1	67	21.52		21.42	0.0	22.0	9.19		9.65	0.0	10.00
			1	131	21.97		21.43	0.0	22.0	9.53		9.38	0.0	10.00
			64	0	21.39		21.44	0.5	21.5	9.17		9.61	0.0	10.00
			64	35	21.68		21.63	0.0	22.0	9.23		9.64	0.0	10.00
			64	69	21.41		21.49	0.5	21.5	9.32		9.57	0.0	10.00
			128	0	21.47		21.43	0.5	21.5	9.22		9.63	0.0	10.00
		QPSK	1	1	21.45		21.72	0.0	22.0	9.07		9.40	0.0	10.00
			1	67	21.63		21.85	0.0	22.0	9.26		9.58	0.0	10.00
			1	131	21.93		21.76	0.0	22.0	9.52		9.35	0.0	10.00
			64	0	20.96		20.92	1.0	21.0	9.17		9.61	0.0	10.00
			64	35	21.69		21.63	0.0	22.0	9.25		9.62	0.0	10.00
			64	69	20.93		20.94	1.0	21.0	9.35		9.56	0.0	10.00
			128	0	20.91		20.92	1.0	21.0	9.22		9.59	0.0	10.00
		16QAM	1	1	20.91		20.83	1.0	21.0	9.10		9.56	0.0	10.00
		64QAM	1	1	19.30		19.48	2.5	19.5	9.03		9.48	0.0	10.00
		256QAM	1	1	17.36		17.44	4.5	17.5	9.02		9.47	0.0	10.00
	CP-OFDM	QPSK	1	1	20.37		20.42	1.5	20.5	9.08		9.53	0.0	10.00

Note(s):

NR Band n78 is covered by NR Band n77.

NR Band n77(Main.2 SRS0)- Lower Band- Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					631334	633334	635332			631334	633334	635332		
					3470.01 MHz	3500.01 MHz	3529.98 MHz			3470.01 MHz	3500.01 MHz	3529.98 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.49		21.68	0.0	22.0	9.03		9.58	0.0	10.00
			1	53	21.67		21.91	0.0	22.0	9.27		9.64	0.0	10.00
			1	104	21.79		21.68	0.0	22.0	9.31		9.35	0.0	10.00
			50	0	21.46		21.41	0.5	21.5	9.14		9.61	0.0	10.00
			50	28	21.62		21.68	0.0	22.0	9.21		9.59	0.0	10.00
			50	56	21.41		20.91	0.5	21.5	9.21		9.54	0.0	10.00
			100	0	20.42		21.17	0.5	21.5	9.18		9.58	0.0	10.00
		QPSK	1	1	21.68		21.92	0.0	22.0	9.07		9.61	0.0	10.00
			1	53	21.72		21.76	0.0	22.0	9.25		9.64	0.0	10.00
			1	104	21.86		21.62	0.0	22.0	9.33		9.39	0.0	10.00
			50	0	20.93		20.90	1.0	21.0	9.17		9.62	0.0	10.00
			50	28	21.68		21.94	0.0	22.0	9.24		9.61	0.0	10.00
			50	56	20.97		20.93	1.0	21.0	9.19		9.55	0.0	10.00
			100	0	20.94		20.92	1.0	21.0	9.21		9.60	0.0	10.00
		16QAM	1	1	20.94		20.04	1.0	21.0	9.09		9.63	0.0	10.00
		64QAM	1	1	19.48		18.97	2.5	19.5	9.02		9.54	0.0	10.00
		256QAM	1	1	17.44		17.43	4.5	17.5	9.03		9.57	0.0	10.00
	CP-OFDM	QPSK	1	1	20.44		20.41	1.5	20.5	9.07		9.63	0.0	10.00

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					631000	633334	635666			631000	633334	635666		
					3465 MHz	3500.01 MHz	3534.99 MHz			3465 MHz	3500.01 MHz	3534.99 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.35	21.58	21.96	0.0	22.0	8.98	9.25	9.57	0.0	10.00
			1	39	21.53	21.91	21.89	0.0	22.0	9.21	9.61	9.63	0.0	10.00
			1	76	21.56	21.99	21.89	0.0	22.0	9.18	9.63	9.39	0.0	10.00
			36	0	21.25	21.41	21.38	0.5	21.5	9.12	9.39	9.58	0.0	10.00
			36	21	21.55	21.94	21.92	0.0	22.0	9.18	9.58	9.58	0.0	10.00
			36	42	20.80	21.44	21.43	0.5	21.5	9.20	9.63	9.50	0.0	10.00
			75	0	21.37	21.42	21.38	0.5	21.5	9.17	9.56	9.59	0.0	10.00
		QPSK	1	1	21.41	21.65	21.94	0.0	22.0	9.10	9.31	9.62	0.0	10.00
			1	39	21.52	21.94	21.93	0.0	22.0	9.21	9.61	9.63	0.0	10.00
			1	76	21.42	21.97	21.89	0.0	22.0	9.21	9.63	9.39	0.0	10.00
			36	0	20.72	20.92	20.89	1.0	21.0	9.15	9.43	9.61	0.0	10.00
			36	21	21.39	21.91	21.97	0.0	22.0	9.21	9.59	9.60	0.0	10.00
			36	42	20.72	20.93	20.92	1.0	21.0	9.22	9.64	9.53	0.0	10.00
			75	0	20.73	20.92	20.94	1.0	21.0	9.20	9.58	9.61	0.0	10.00
		16QAM	1	1	20.64	20.96	20.93	1.0	21.0	9.14	9.24	9.66	0.0	10.00
		64QAM	1	1	19.08	19.43	19.44	2.5	19.5	9.04	9.19	9.58	0.0	10.00
		256QAM	1	1	17.11	17.33	17.43	4.5	17.5	9.07	9.22	9.59	0.0	10.00
	CP-OFDM	QPSK	1	1	20.08	20.36	20.48	1.5	20.5	9.11	9.30	9.62	0.0	10.00

Note(s):

NR Band n78 is covered by NR Band n77.

NR Band n77(Main.2 SRS0)- Lower Band- Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					630668	633334	636000			630668	633334	636000		
					3460.02 MHz	3500.01 MHz	3540 MHz			3460.02 MHz	3500.01 MHz	3540 MHz		
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.36	21.62	21.97	0.0	22.0	8.94	9.15	9.54	0.0	10.00
			1	32	21.41	21.87	21.95	0.0	22.0	8.99	9.39	9.48	0.0	10.00
			1	63	21.47	21.99	21.82	0.0	22.0	9.05	9.51	9.35	0.0	10.00
			32	0	21.17	21.43	21.41	0.5	21.5	8.91	9.30	9.51	0.0	10.00
			32	17	21.41	21.84	21.95	0.0	22.0	8.99	9.42	9.47	0.0	10.00
			32	33	21.25	21.41	21.43	0.5	21.5	9.01	9.48	9.40	0.0	10.00
			64	0	21.17	21.42	21.44	0.5	21.5	8.98	9.40	9.48	0.0	10.00
		QPSK	1	1	21.35	21.65	21.92	0.0	22.0	8.95	9.19	9.54	0.0	10.00
			1	32	21.38	21.85	21.98	0.0	22.0	8.97	9.39	9.46	0.0	10.00
			1	63	21.47	21.99	21.83	0.0	22.0	9.02	9.54	9.34	0.0	10.00
			32	0	20.68	20.94	20.93	1.0	21.0	8.96	9.29	9.50	0.0	10.00
			32	17	21.41	21.87	21.96	0.0	22.0	8.98	9.41	9.48	0.0	10.00
			32	33	20.75	20.93	20.91	1.0	21.0	9.00	9.48	9.39	0.0	10.00
			64	0	20.70	20.91	20.90	1.0	21.0	8.95	9.41	9.48	0.0	10.00
		16QAM	1	1	20.66	20.94	20.92	1.0	21.0	8.94	9.22	9.59	0.0	10.00
		64QAM	1	1	19.11	19.36	19.41	2.5	19.5	8.88	9.12	9.47	0.0	10.00
		256QAM	1	1	17.06	17.38	17.44	4.5	17.5	8.88	9.17	9.53	0.0	10.00
	CP-OFDM	QPSK	1	1	20.07	20.35	20.43	1.5	20.5	8.92	9.20	9.53	0.0	10.00

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					630668	633334	636000			630668	633334	636000		
					3460.02 MHz	3500.01 MHz	3540 MHz			3460.02 MHz	3500.01 MHz	3540 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.42	21.66	21.98	0.0	22.0	9.03	9.35	9.56	0.0	10.00
			1	26	21.46	21.84	21.93	0.0	22.0	9.14	9.54	9.53	0.0	10.00
			1	49	21.53	21.98	21.84	0.0	22.0	9.20	9.63	9.38	0.0	10.00
			25	0	21.27	21.44	21.44	0.5	21.5	9.12	9.47	9.57	0.0	10.00
			25	13	21.49	21.88	21.88	0.0	22.0	9.18	9.56	9.56	0.0	10.00
			25	26	21.32	21.43	21.43	0.5	21.5	9.19	9.60	9.47	0.0	10.00
			50	0	21.28	21.42	21.41	0.5	21.5	9.16	9.58	9.58	0.0	10.00
		QPSK	1	1	21.47	21.69	21.94	0.0	22.0	9.12	9.42	9.63	0.0	10.00
			1	26	21.48	21.90	21.92	0.0	22.0	9.18	9.59	9.60	0.0	10.00
			1	49	21.21	21.97	21.83	0.0	22.0	9.24	9.64	9.40	0.0	10.00
			25	0	20.71	20.92	20.94	1.0	21.0	9.14	9.49	9.60	0.0	10.00
			25	13	21.42	21.87	21.93	0.0	22.0	9.19	9.61	9.59	0.0	10.00
			25	26	20.75	20.94	20.92	1.0	21.0	9.21	9.63	9.51	0.0	10.00
			50	0	20.70	20.93	20.93	1.0	21.0	9.20	9.59	9.59	0.0	10.00
		16QAM	1	1	20.69	20.99	20.91	1.0	21.0	9.15	9.46	9.63	0.0	10.00
		64QAM	1	1	19.11	19.40	19.41	2.5	19.5	9.06	9.36	9.59	0.0	10.00
		256QAM	1	1	17.14	17.44	17.43	4.5	17.5	9.10	9.39	9.59	0.0	10.00
	CP-OFDM	QPSK	1	1	20.13	20.43	20.43	1.5	20.5	9.12	9.41	9.61	0.0	10.00

Note(s):

NR Band n78 is covered by NR Band n77.

NR Band n77(Main.2 SRS0)- Lower Band- Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					630500	633334	636166			630500	633334	636166		
					3457.5 MHz	3500.01 MHz	3542.49 MHz			3457.5 MHz	3500.01 MHz	3542.49 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.43	21.68	21.92	0.0	22.0	9.06	9.42	9.54	0.0	10.00
			1	19	21.48	21.82	21.96	0.0	22.0	9.18	9.63	9.51	0.0	10.00
			1	36	21.49	21.97	21.82	0.0	22.0	9.18	9.63	9.37	0.0	10.00
			18	0	21.25	21.41	21.42	0.5	21.5	9.12	9.50	9.56	0.0	10.00
			18	10	21.46	21.85	21.93	0.0	22.0	9.16	9.58	9.43	0.0	10.00
			18	20	21.46	21.43	21.41	0.5	21.5	9.19	9.61	9.39	0.0	10.00
			36	0	21.24	21.44	21.39	0.5	21.5	9.15	9.58	9.49	0.0	10.00
		QPSK	1	1	21.44	21.73	21.94	0.0	22.0	9.11	9.35	9.57	0.0	10.00
			1	19	21.44	21.84	21.85	0.0	22.0	9.18	9.56	9.53	0.0	10.00
			1	36	21.47	21.95	21.79	0.0	22.0	9.23	9.58	9.39	0.0	10.00
			18	0	20.71	20.93	20.86	1.0	21.0	9.16	9.47	9.57	0.0	10.00
			18	10	21.44	21.91	21.93	0.0	22.0	9.17	9.54	9.53	0.0	10.00
			18	20	20.93	20.90	20.91	1.0	21.0	9.19	9.58	9.45	0.0	10.00
			36	0	20.72	20.92	20.94	1.0	21.0	9.18	9.55	9.52	0.0	10.00
		16QAM	1	1	20.72	20.99	20.92	1.0	21.0	9.16	9.49	9.62	0.0	10.00
		64QAM	1	1	19.15	19.38	19.44	2.5	19.5	9.10	9.41	9.54	0.0	10.00
		256QAM	1	1	17.14	17.42	17.43	4.5	17.5	9.12	9.43	9.58	0.0	10.00
	CP-OFDM	QPSK	1	1	20.12	20.44	20.40	1.5	20.5	9.14	9.48	9.61	0.0	10.00

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					630334	633334	636332			630334	633334	636332		
					3455.01 MHz	3500.01 MHz	3544.98 MHz			3455.01 MHz	3500.01 MHz	3544.98 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.41	21.69	21.97	0.0	22.0	9.06	9.45	9.51	0.0	10.00
			1	12	21.42	21.72	21.96	0.0	22.0	9.15	9.57	9.49	0.0	10.00
			1	22	21.46	21.97	21.79	0.0	22.0	9.14	9.61	9.39	0.0	10.00
			12	0	21.19	21.42	21.42	0.5	21.5	9.11	9.50	9.48	0.0	10.00
			12	6	21.42	21.85	21.86	0.0	22.0	9.12	9.55	9.48	0.0	10.00
			12	12	21.44	21.44	21.41	0.5	21.5	9.15	9.59	9.45	0.0	10.00
			24	0	21.22	21.43	21.43	0.5	21.5	9.13	9.57	9.47	0.0	10.00
		QPSK	1	1	21.41	21.75	21.93	0.0	22.0	9.13	9.51	9.59	0.0	10.00
			1	12	21.43	21.76	21.92	0.0	22.0	9.17	9.60	9.48	0.0	10.00
			1	22	21.43	21.97	21.79	0.0	22.0	9.21	9.63	9.42	0.0	10.00
			12	0	20.68	20.93	20.94	1.0	21.0	9.14	9.54	9.52	0.0	10.00
			12	6	21.39	21.86	21.89	0.0	22.0	9.16	9.58	9.50	0.0	10.00
			12	12	20.94	20.94	20.93	1.0	21.0	9.17	9.61	9.43	0.0	10.00
			24	0	20.71	20.93	20.94	1.0	21.0	9.16	9.60	9.48	0.0	10.00
		16QAM	1	1	20.72	20.99	20.87	1.0	21.0	9.16	9.57	9.61	0.0	10.00
		64QAM	1	1	19.14	19.37	19.39	2.5	19.5	9.08	9.48	9.52	0.0	10.00
		256QAM	1	1	17.12	17.36	17.35	4.5	17.5	9.11	9.52	9.56	0.0	10.00
	CP-OFDM	QPSK	1	1	20.08	20.44	20.39	1.5	20.5	9.14	9.54	9.60	0.0	10.00

Note(s):

NR Band n78 is covered by NR Band n77.

NR Band n77 (Sub.2 SRS1) - Lower Band- Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)									
		DSI =0					DSI =1				
		Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
			633334					633334			
			3500.01 MHz					3500.01 MHz			
100 MHz	SRS CW		21.3		0.0	22.0		9.8		0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		633000	633334	633666			633000	633334	633666		
		3495 MHz	3500.01 MHz	3504.99 MHz			3495 MHz	3500.01 MHz	3504.99 MHz		
90 MHz	SRS CW		21.1		0.0	22.0		9.5		0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		632668	633334	634000			632668	633334	634000		
		3490.02 MHz	3500.01 MHz	3510 MHz			3490.02 MHz	3500.01 MHz	3510 MHz		
80 MHz	SRS CW		21.2		0.0	22.0		9.5		0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		632334	633334	634332			632334	633334	634332		
		3485.01 MHz	3500.01 MHz	3514.98 MHz			3485.01 MHz	3500.01 MHz	3514.98 MHz		
70 MHz	SRS CW		21.2		0.0	22.0		9.5		0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		632000	633334	634666			632000	633334	634666		
		3480 MHz	3500.01 MHz	3519.99 MHz			3480 MHz	3500.01 MHz	3519.99 MHz		
60 MHz	SRS CW		21.2		0.0	22.0		9.6		0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		631668	633334	635000			631668	633334	635000		
		3475.02 MHz	3500.01 MHz	3525 MHz			3475.02 MHz	3500.01 MHz	3525 MHz		
50 MHz	SRS CW	20.8		21.7	0.0	22.0	9.0		9.8	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		631334	633334	635332			631334	633334	635332		
		3470.01 MHz	3500.01 MHz	3529.98 MHz			3470.01 MHz	3500.01 MHz	3529.98 MHz		
40 MHz	SRS CW	20.0		19.6	0.0	22.0	9.0		9.8	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		631000	633334	635666			631000	633334	635666		
		3465 MHz	3500.01 MHz	3534.99 MHz			3465 MHz	3500.01 MHz	3534.99 MHz		
30 MHz	SRS CW	20.0	19.9	19.6	0.0	22.0	9.0	9.6	9.8	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		630668	633334	636000			630668	633334	636000		
		3460.02 MHz	3500.01 MHz	3540 MHz			3460.02 MHz	3500.01 MHz	3540 MHz		
25 MHz	SRS CW	19.9	19.7	19.6	0.0	22.0	9.6	9.6	9.8	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		630668	633334	636000			630668	633334	636000		
		3460.02 MHz	3500.01 MHz	3540 MHz			3460.02 MHz	3500.01 MHz	3540 MHz		
20 MHz	SRS CW	19.9	19.7	19.7	0.0	22.0	9.0	9.5	9.8	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		630500	633334	636166			630500	633334	636166		
		3457.5 MHz	3500.01 MHz	3542.49 MHz			3457.5 MHz	3500.01 MHz	3542.49 MHz		
15 MHz	SRS CW	20.0	19.8	19.6	0.0	22.0	8.9	9.6	9.8	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		630334	633334	636332			630334	633334	636332		
		3455.01 MHz	3500.01 MHz	3544.98 MHz			3455.01 MHz	3500.01 MHz	3544.98 MHz		
10 MHz	SRS CW	19.9	19.7	19.7	0.0	22.0	8.9	9.5	9.7	0.0	10.0

Notes:

NR Band n77 (SRS1) were measured output power through FTM mode provided by manufacturer.

NR Band n77 (Sub.4 SRS2) - Lower Band- Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)									
		DSI =0					DSI =1				
		Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
			633334					633334			
			3500.01 MHz					3500.01 MHz			
100 MHz	SRS CW		18.8		0.0	19.0		9.8		0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		633000	633334	633666			633000	633334	633666		
		3495 MHz	3500.01 MHz	3504.99 MHz			3495 MHz	3500.01 MHz	3504.99 MHz		
90 MHz	SRS CW		18.7		0.0	19.0		9.6		0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		632668	633334	634000			632668	633334	634000		
		3490.02 MHz	3500.01 MHz	3510 MHz			3490.02 MHz	3500.01 MHz	3510 MHz		
80 MHz	SRS CW		18.6		0.0	19.0		9.6		0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		632334	633334	634332			632334	633334	634332		
		3485.01 MHz	3500.01 MHz	3514.98 MHz			3485.01 MHz	3500.01 MHz	3514.98 MHz		
70 MHz	SRS CW		18.7		0.0	19.0		9.4		0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		632000	633334	634666			632000	633334	634666		
		3480 MHz	3500.01 MHz	3519.99 MHz			3480 MHz	3500.01 MHz	3519.99 MHz		
60 MHz	SRS CW		18.5		0.0	19.0		9.4		0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		631668	633334	635000			631668	633334	635000		
		3475.02 MHz	3500.01 MHz	3525 MHz			3475.02 MHz	3500.01 MHz	3525 MHz		
50 MHz	SRS CW	18.7		18.8	0.0	19.0	9.3		9.8	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		631334	633334	635332			631334	633334	635332		
		3470.01 MHz	3500.01 MHz	3529.98 MHz			3470.01 MHz	3500.01 MHz	3529.98 MHz		
40 MHz	SRS CW	18.2		18.5	0.0	19.0	9.2		9.9	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		631000	633334	635666			631000	633334	635666		
		3465 MHz	3500.01 MHz	3534.99 MHz			3465 MHz	3500.01 MHz	3534.99 MHz		
30 MHz	SRS CW	18.1	18.4	18.7	0.0	19.0	9.2	9.3	9.9	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		630668	633334	636000			630668	633334	636000		
		3460.02 MHz	3500.01 MHz	3540 MHz			3460.02 MHz	3500.01 MHz	3540 MHz		
25 MHz	SRS CW	17.9	18.5	18.9	0.0	19.0	9.8	9.6	9.9	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		630668	633334	636000			630668	633334	636000		
		3460.02 MHz	3500.01 MHz	3540 MHz			3460.02 MHz	3500.01 MHz	3540 MHz		
20 MHz	SRS CW	17.4	17.6	17.9	0.0	19.0	9.4	9.6	9.9	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		630500	633334	636166			630500	633334	636166		
		3457.5 MHz	3500.01 MHz	3542.49 MHz			3457.5 MHz	3500.01 MHz	3542.49 MHz		
15 MHz	SRS CW	17.1	17.2	17.7	0.0	19.0	9.4	9.6	9.9	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		630334	633334	636332			630334	633334	636332		
		3455.01 MHz	3500.01 MHz	3544.98 MHz			3455.01 MHz	3500.01 MHz	3544.98 MHz		
10 MHz	SRS CW	17.1	17.2	17.8	0.0	19.0	9.4	9.6	9.9	0.0	10.0

Notes:

NR Band n77 (SRS2) were measured output power through FTM mode provided by manufacturer.

NR Band n77 (Sub.3 SRS3) - Lower Band- Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)									
		DSI =0					DSI =1				
		Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
			633334					633334			
			3500.01 MHz					3500.01 MHz			
100 MHz	SRS CW		17.8		0.0	18.0		7.8		0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		633000	633334	633666			633000	633334	633666		
		3495 MHz	3500.01 MHz	3504.99 MHz			3495 MHz	3500.01 MHz	3504.99 MHz		
90 MHz	SRS CW		17.7		0.0	18.0		7.9		0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		632668	633334	634000			632668	633334	634000		
		3490.02 MHz	3500.01 MHz	3510 MHz			3490.02 MHz	3500.01 MHz	3510 MHz		
80 MHz	SRS CW		17.7		0.0	18.0		8.0		0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		632334	633334	634332			632334	633334	634332		
		3485.01 MHz	3500.01 MHz	3514.98 MHz			3485.01 MHz	3500.01 MHz	3514.98 MHz		
70 MHz	SRS CW		17.7		0.0	18.0		8.0		0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		632000	633334	634666			632000	633334	634666		
		3480 MHz	3500.01 MHz	3519.99 MHz			3480 MHz	3500.01 MHz	3519.99 MHz		
60 MHz	SRS CW		17.8		0.0	18.0		8.0		0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		631668	633334	635000			631668	633334	635000		
		3475.02 MHz	3500.01 MHz	3525 MHz			3475.02 MHz	3500.01 MHz	3525 MHz		
50 MHz	SRS CW	17.7		17.9	0.0	18.0	7.8		8.0	0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		631334	633334	635332			631334	633334	635332		
		3470.01 MHz	3500.01 MHz	3529.98 MHz			3470.01 MHz	3500.01 MHz	3529.98 MHz		
40 MHz	SRS CW	17.4		17.7	0.0	18.0	7.7		7.9	0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		631000	633334	635666			631000	633334	635666		
		3465 MHz	3500.01 MHz	3534.99 MHz			3465 MHz	3500.01 MHz	3534.99 MHz		
30 MHz	SRS CW	17.1	17.4	17.6	0.0	18.0	7.5	7.9	7.9	0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		630668	633334	636000			630668	633334	636000		
		3460.02 MHz	3500.01 MHz	3540 MHz			3460.02 MHz	3500.01 MHz	3540 MHz		
25 MHz	SRS CW	17.2	17.5	17.7	0.0	18.0	7.4	7.8	7.8	0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		630668	633334	636000			630668	633334	636000		
		3460.02 MHz	3500.01 MHz	3540 MHz			3460.02 MHz	3500.01 MHz	3540 MHz		
20 MHz	SRS CW	17.4	17.6	17.7	0.0	18.0	7.3	7.6	7.8	0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		630500	633334	636166			630500	633334	636166		
		3457.5 MHz	3500.01 MHz	3542.49 MHz			3457.5 MHz	3500.01 MHz	3542.49 MHz		
15 MHz	SRS CW	17.3	17.5	17.5	0.0	18.0	7.4	7.7	7.9	0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
		630334	633334	636332			630334	633334	636332		
		3455.01 MHz	3500.01 MHz	3544.98 MHz			3455.01 MHz	3500.01 MHz	3544.98 MHz		
10 MHz	SRS CW	17.3	17.5	17.5	0.0	18.0	7.4	7.6	7.8	0.0	8.0

Notes:

NR Band n77 (SRS3) were measured output power through FTM mode provided by manufacturer.

NR Band n77(Main.2 SRS0)- Upper Band- Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)															
					DSI = 0								DSI = 1							
					Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
					650000		656000		662000				650000		656000		662000			
					3750 MHz		3840 MHz		3930 MHz				3750 MHz		3840 MHz		3930 MHz			
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.22				21.20		0.0	22.0	9.22				9.30		0.0	10.00
			1	137	20.97				20.97		0.0	22.0	8.94				9.08		0.0	10.00
			1	271	21.52				21.43		0.0	22.0	9.57				9.56		0.0	10.00
			135	0	20.86				20.78		0.5	21.5	9.06				9.08		0.0	10.00
			135	69	20.91				20.92		0.0	22.0	8.93				9.02		0.0	10.00
			135	138	20.89				21.10		0.5	21.5	9.13				9.42		0.0	10.00
			270	0	20.69				20.72		0.5	21.5	8.88				9.02		0.0	10.00
		QPSK	1	1	21.57				21.61		0.0	22.0	9.56				9.58		0.0	10.00
			1	137	20.97				20.97		0.0	22.0	8.96				9.08		0.0	10.00
			1	271	21.55				21.43		0.0	22.0	9.51				9.56		0.0	10.00
			135	0	20.35				20.28		1.0	21.0	9.05				9.08		0.0	10.00
			135	69	20.91				20.93		0.0	22.0	9.18				9.43		0.0	10.00
			135	138	20.40				20.59		1.0	21.0	9.12				9.39		0.0	10.00
			270	0	20.20				20.22		1.0	21.0	8.89				9.03		0.0	10.00
		16QAM	1	1	20.54				20.49		1.0	21.0	9.18				9.27		0.0	10.00
		64QAM	1	1	18.94				18.91		2.5	19.5	9.16				9.22		0.0	10.00
		256QAM	1	1	16.92				16.89		4.5	17.5	9.13				9.23		0.0	10.00
	CP-OFDM	QPSK	1	1	19.90				19.89		1.5	20.5	9.17				9.26		0.0	10.00

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					649334		656000		662666			649334		656000		662666		
					3740.01 MHz		3840 MH		3939.99 MHz			3740.01 MHz		3840 MH		3939.99 MHz		
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.95		18.70		18.73	0.0	19.3	8.20		8.37		7.98	0.0	9.50
			1	109	19.13		18.61		18.76	0.0	19.3	8.30		8.42		7.90	0.0	9.50
			1	215	19.14		18.45		18.72	0.0	19.3	8.24		8.47		7.86	0.0	9.50
			108	0	19.07		18.88		18.55	0.0	19.3	8.30		8.34		7.92	0.0	9.50
			108	55	19.22		18.91		18.82	0.0	19.3	8.26		8.41		7.90	0.0	9.50
			108	109	19.06		18.83		18.62	0.0	19.3	8.25		8.38		7.87	0.0	9.50
			216	0	19.19		18.92		18.72	0.0	19.3	8.23		8.40		7.87	0.0	9.50
		QPSK	1	1	19.05		19.19		18.94	0.0	19.3	8.28		8.14		8.55	0.0	9.50
			1	109	19.22		18.70		18.85	0.0	19.3	8.29		8.36		8.65	0.0	9.50
			1	215	19.19		18.52		18.81	0.0	19.3	8.18		8.41		8.66	0.0	9.50
			108	0	19.15		19.08		18.81	0.0	19.3	8.29		8.27		8.67	0.0	9.50
			108	55	19.27		18.66		18.90	0.0	19.3	8.32		8.38		8.65	0.0	9.50
			108	109	19.22		18.92		18.76	0.0	19.3	8.22		8.32		8.77	0.0	9.50
			216	0	19.20		18.99		18.78	0.0	19.3	8.24		8.36		7.92	0.0	9.50
		16QAM	1	1	19.24		19.25		18.90	0.0	19.3	8.35		8.35		8.69	0.0	9.50
		64QAM	1	1	19.06		19.04		18.70	0.0	19.3	8.28		8.28		8.54	0.0	9.50
		256QAM	1	1	19.14		19.11		18.82	0.0	19.3	8.33		8.31		8.62	0.0	9.50
	CP-OFDM	QPSK	1	1	19.22		19.16		18.82	0.0	19.3	8.33		8.34		8.63	0.0	9.50

Note(s):

NR Band n78 is covered by NR Band n77.

NR Band n77(Main.2 SRS0)- Upper Band- Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
					649334		656000		662666				649334		656000		662666			
					3740.01 MHz		3840 MHz		3939.99 MHz				3740.01 MHz		3840 MHz		3939.99 MHz			
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.42		21.39		21.06		0.0	22.0	9.20		9.41		8.92		0.0	10.00
			1	109	21.06		21.56		21.31		0.0	22.0	8.83		9.54		9.19		0.0	10.00
			1	215	21.14		21.44		21.55		0.0	22.0	9.02		9.40		9.45		0.0	10.00
			108	0	20.96		20.98		21.01		0.5	21.5	9.14		9.14		9.16		0.0	10.00
			108	55	21.01		21.57		21.22		0.0	22.0	8.84		9.53		9.22		0.0	10.00
			108	109	20.85		21.01		21.06		0.5	21.5	9.16		9.17		9.30		0.0	10.00
			216	0	20.81		21.38		21.13		0.5	21.5	8.86		9.54		9.21		0.0	10.00
		QPSK	1	1	21.46		21.45		21.18		0.0	22.0	9.28		9.40		9.00		0.0	10.00
			1	109	21.08		21.60		21.49		0.0	22.0	8.89		9.56		9.24		0.0	10.00
			1	215	21.12		21.46		20.48		0.0	22.0	9.06		9.41		9.49		0.0	10.00
			108	0	20.56		20.49		20.92		1.0	21.0	9.17		9.14		9.17		0.0	10.00
			108	55	21.07		21.58		20.64		0.0	22.0	8.89		9.53		9.23		0.0	10.00
			108	109	20.43		20.50		20.52		1.0	21.0	9.17		9.17		9.34		0.0	10.00
			216	0	20.21		20.89		20.41		1.0	21.0	8.88		9.53		9.24		0.0	10.00
		16QAM	1	1	20.64		20.75		20.42		1.0	21.0	9.31		9.42		9.04		0.0	10.00
		64QAM	1	1	19.07		19.19		18.82		2.5	19.5	9.23		9.34		8.96		0.0	10.00
		256QAM	1	1	17.07		17.15		16.78		4.5	17.5	9.25		9.38		8.98		0.0	10.00
	CP-OFDM	QPSK	1	1	20.05		20.17		19.74		1.5	20.5	9.28		9.43		9.03		0.0	10.00

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
					649000	653666			658334	663000			649000	653666			658334	663000		
					3735 MHz	3804.99 MHz			3875.01 MHz	3945 MHz			3735 MHz	3804.99 MHz			3875.01 MHz	3945 MHz		
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.38	21.20			21.06	21.12	0.0	22.0	9.37	9.18			9.41	9.11	0.0	10.00
			1	95	21.06	21.17			21.32	21.14	0.0	22.0	9.12	9.47			9.25	9.32	0.0	10.00
			1	188	21.04	21.28			21.55	21.35	0.0	22.0	9.16	9.47			9.23	9.44	0.0	10.00
			90	0	21.01	20.90			21.09	20.97	0.5	21.5	9.13	8.99			9.12	9.08	0.0	10.00
			90	50	20.98	21.13			21.18	21.11	0.0	22.0	9.10	9.44			9.23	9.29	0.0	10.00
			90	99	20.89	21.42			21.06	21.43	0.5	21.5	8.91	9.23			9.08	9.26	0.0	10.00
			180	0	20.82	20.91			21.12	20.97	0.5	21.5	9.10	9.37			9.21	9.26	0.0	10.00
		QPSK	1	1	21.46	21.19			21.20	21.14	0.0	22.0	9.35	9.17			9.43	9.13	0.0	10.00
			1	95	21.13	21.16			21.51	21.11	0.0	22.0	9.14	9.45			9.25	9.32	0.0	10.00
			1	188	21.10	21.23			20.52	21.31	0.0	22.0	9.15	9.42			9.24	9.42	0.0	10.00
			90	0	20.59	20.39			20.94	20.49	1.0	21.0	9.13	8.96			9.12	9.08	0.0	10.00
			90	50	21.05	21.13			20.64	21.12	0.0	22.0	9.10	9.43			9.25	9.31	0.0	10.00
			90	99	20.93	20.92			20.41	20.93	1.0	21.0	8.93	9.22			9.09	9.27	0.0	10.00
			180	0	20.35	20.40			20.62	20.44	1.0	21.0	9.10	9.35			9.22	9.26	0.0	10.00
		16QAM	1	1	20.21	20.48			20.62	20.43	1.0	21.0	9.38	9.18			9.46	9.15	0.0	10.00
		64QAM	1	1	19.48	18.93			18.77	18.84	2.5	19.5	9.30	9.09			9.38	9.07	0.0	10.00
		256QAM	1	1	17.02	16.89			16.92	16.83	4.5	17.5	9.32	9.12			9.41	9.08	0.0	10.00
	CP-OFDM	QPSK	1	1	20.08	19.93			19.64	19.86	1.5	20.5	9.38	9.16			9.46	9.13	0.0	10.00

Note(s):

NR Band n78 is covered by NR Band n77.

NR Band n77(Main.2 SRS0)- Upper Band- Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
					648668	653556			658444	663332			648668	653556			658444	663332		
					3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz			3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz		
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.41	21.21			21.07	21.08	0.0	22.0	9.21	9.01			9.19	9.12	0.0	10.00
			1	81	21.08	21.22			21.32	21.09	0.0	22.0	9.16	9.47			9.23	9.44	0.0	10.00
			1	160	21.00	21.29			21.55	21.48	0.0	22.0	9.12	9.38			9.07	9.39	0.0	10.00
			81	0	21.03	20.89			21.09	21.03	0.5	21.5	9.10	9.07			8.99	9.08	0.0	10.00
			81	41	21.08	21.00			21.21	21.14	0.0	22.0	9.08	9.40			9.21	9.35	0.0	10.00
			81	81	20.81	21.42			21.17	21.44	0.5	21.5	8.86	9.17			9.04	9.22	0.0	10.00
			162	0	20.82	20.95			21.11	21.09	0.5	21.5	9.07	9.39			9.18	9.36	0.0	10.00
		QPSK	1	1	21.46	21.22			21.21	21.13	0.0	22.0	9.21	9.03			9.28	9.11	0.0	10.00
			1	81	21.09	21.26			21.55	21.18	0.0	22.0	9.16	9.46			9.29	9.44	0.0	10.00
			1	160	21.05	21.18			20.46	21.32	0.0	22.0	9.10	9.37			9.12	9.38	0.0	10.00
			81	0	20.59	20.38			20.55	20.48	1.0	21.0	9.12	9.09			9.05	9.11	0.0	10.00
			81	41	21.09	21.08			21.18	21.08	0.0	22.0	9.08	9.42			9.23	9.37	0.0	10.00
			81	81	20.94	20.92			20.65	20.93	1.0	21.0	8.86	9.19			9.07	9.24	0.0	10.00
			162	0	20.44	20.42			20.35	20.44	1.0	21.0	9.08	9.39			9.23	9.38	0.0	10.00
		16QAM	1	1	20.21	20.54			20.59	20.38	1.0	21.0	9.24	9.03			9.32	9.17	0.0	10.00
		64QAM	1	1	20.56	18.87			18.87	18.82	2.5	19.5	9.17	8.95			9.28	9.06	0.0	10.00
		256QAM	1	1	17.11	16.58			16.87	16.83	4.5	17.5	9.19	9.00			9.27	9.09	0.0	10.00
	CP-OFDM	QPSK	1	1	20.08	19.99			18.59	19.92	1.5	20.5	9.23	9.03			9.31	9.13	0.0	10.00

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
					648334	652166	656000		659834	663666			648334	652166	656000		659834	663666		
					3725.01 MHz	3782.49 MHz	3840 MHz		3897.51 MHz	3954.99 MHz			3725.01 MHz	3782.49 MHz	3840 MHz		3897.51 MHz	3954.99 MHz		
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.44	21.22	21.16		21.12	21.00	0.0	22.0	9.06	9.03	9.09		9.11	8.98	0.0	10.00
			1	67	21.19	21.23	21.49		21.32	21.17	0.0	22.0	9.01	8.95	9.46		8.94	9.25	0.0	10.00
			1	131	21.05	21.31	21.18		21.56	21.45	0.0	22.0	8.81	9.32	9.11		9.16	9.32	0.0	10.00
			64	0	21.11	20.89	21.03		21.11	21.10	0.5	21.5	9.01	9.04	9.14		9.08	9.13	0.0	10.00
			64	35	20.68	21.04	21.54		21.23	21.08	0.0	22.0	9.04	8.91	9.43		8.96	9.24	0.0	10.00
			64	69	20.84	21.29	21.14		21.25	21.35	0.5	21.5	8.83	9.20	9.22		9.11	9.12	0.0	10.00
			128	0	20.79	21.04	21.32		21.08	21.12	0.5	21.5	9.03	8.89	9.42		8.97	9.25	0.0	10.00
		QPSK	1	1	21.45	21.21	21.17		21.17	21.15	0.0	22.0	9.13	8.94	9.12		9.13	9.00	0.0	10.00
			1	67	21.16	21.33	21.53		21.64	21.18	0.0	22.0	9.04	8.87	9.43		8.97	9.26	0.0	10.00
			1	131	21.14	21.20	21.22		20.45	21.32	0.0	22.0	8.84	9.28	9.10		9.20	9.31	0.0	10.00
			64	0	20.64	20.38	20.51		20.55	20.48	1.0	21.0	9.05	9.02	9.16		9.10	9.16	0.0	10.00
			64	35	21.11	21.13	21.52		21.21	21.17	0.0	22.0	9.06	8.90	9.47		8.97	9.26	0.0	10.00
			64	69	20.92	20.90	20.63		20.67	20.89	1.0	21.0	8.86	9.18	9.25		9.14	9.15	0.0	10.00
			128	0	20.38	20.44	20.81		20.35	20.33	1.0	21.0	9.08	8.89	9.42		8.97	9.29	0.0	10.00
		16QAM	1	1	20.22	20.52	20.47		20.55	20.27	1.0	21.0	9.18	9.06	9.12		9.15	9.03	0.0	10.00
		64QAM	1	1	19.48	18.89	18.92		18.90	18.77	2.5	19.5	9.10	8.97	9.06		9.06	8.97	0.0	10.00
		256QAM	1	1	17.11	16.62	16.87		16.88	16.74	4.5	17.5	9.13	8.99	9.06		9.09	8.96	0.0	10.00
	CP-OFDM	QPSK	1	1	20.10	20.01	19.89		18.52	19.89	1.5	20.5	9.16	9.05	9.11		9.15	9.01	0.0	10.00

Note(s):

NR Band n78 is covered by NR Band n77.

NR Band n77(Main.2 SRS0)- Upper Band- Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
					648000	651200	654400	657600	660800	664000			648000	651200	654400	657600	660800	664000		
					3720 MHz	3768 MHz	3816 MHz	3864 MHz	3912 MHz	3960 MHz			3720 MHz	3768 MHz	3816 MHz	3864 MHz	3912 MHz	3960 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.38	21.24	21.18	21.26	21.11	20.99	0.0	22.0	9.14	8.81	9.22	9.31	8.94	9.12	0.0	10.00
			1	53	21.18	21.26	21.49	21.08	21.37	21.17	0.0	22.0	9.13	9.11	9.24	9.13	9.16	9.28	0.0	10.00
			1	104	21.12	21.32	21.31	21.17	21.51	21.46	0.0	22.0	8.80	8.97	9.36	9.18	9.06	9.28	0.0	10.00
			50	0	21.11	20.84	21.11	20.94	21.13	21.21	0.5	21.5	9.04	9.00	9.29	9.14	8.92	9.27	0.0	10.00
			50	28	19.66	21.10	21.48	21.08	21.28	21.17	0.0	22.0	9.07	9.05	9.16	9.06	9.10	9.20	0.0	10.00
			50	56	20.82	21.33	21.16	20.98	21.29	21.42	0.5	21.5	9.00	8.88	9.16	9.17	9.11	9.07	0.0	10.00
			100	0	20.78	21.18	21.31	20.86	21.16	21.11	0.5	21.5	9.08	9.04	9.17	9.05	9.09	9.19	0.0	10.00
		QPSK	1	1	21.45	21.21	21.18	21.34	21.24	21.35	0.0	22.0	9.14	8.81	9.23	9.30	8.94	9.11	0.0	10.00
			1	53	21.24	21.32	21.44	21.15	21.51	21.21	0.0	22.0	9.16	9.12	9.24	9.15	9.19	9.26	0.0	10.00
			1	104	21.16	21.22	21.26	21.23	20.47	21.34	0.0	22.0	8.81	8.98	9.36	9.18	9.08	9.30	0.0	10.00
			50	0	20.55	20.38	20.65	20.49	20.51	20.42	1.0	21.0	9.03	9.01	9.30	9.16	8.94	9.27	0.0	10.00
			50	28	21.21	21.12	21.52	21.13	21.13	21.12	0.0	22.0	9.09	9.06	9.16	9.09	9.12	9.21	0.0	10.00
			50	56	20.92	20.92	20.64	20.51	20.69	20.93	1.0	21.0	9.02	8.90	9.18	9.18	9.15	9.10	0.0	10.00
			100	0	20.36	20.38	20.82	20.39	20.38	20.27	1.0	21.0	9.08	9.06	9.19	9.06	9.12	9.22	0.0	10.00
		16QAM	1	1	20.21	20.54	20.48	20.63	20.57	20.31	1.0	21.0	9.17	8.83	9.28	9.35	8.94	9.14	0.0	10.00
		64QAM	1	1	19.44	18.88	18.81	19.08	18.89	18.81	2.5	19.5	9.11	8.77	9.19	9.27	8.88	9.07	0.0	10.00
		256QAM	1	1	17.24	16.62	16.78	17.06	16.71	16.61	4.5	17.5	9.11	8.79	9.23	9.27	8.92	9.08	0.0	10.00
	CP-OFDM	QPSK	1	1	20.12	20.04	19.84	20.07	18.52	19.92	1.5	20.5	9.14	8.83	9.25	9.33	8.96	9.13	0.0	10.00

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
					647668	651000	654334	657666	661000	664332			647668	651000	654334	657666	661000	664332		
					3715.02 MHz	3765 MHz	3815.01 MHz	3864.99 MHz	3915 MHz	3964.98 MHz			3715.02 MHz	3765 MHz	3815.01 MHz	3864.99 MHz	3915 MHz	3964.98 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.41	21.18	21.12	21.33	21.19	21.11	0.0	22.0	9.12	8.81	9.22	9.19	8.87	9.25	0.0	10.00
			1	39	21.21	21.26	21.45	21.14	21.41	21.13	0.0	22.0	9.11	9.08	9.18	9.13	9.15	9.20	0.0	10.00
			1	76	21.00	21.31	21.34	21.25	21.49	21.52	0.0	22.0	9.02	8.86	9.18	9.21	9.06	9.28	0.0	10.00
			36	0	21.13	20.79	21.19	20.92	21.08	21.21	0.5	21.5	9.07	8.97	9.24	9.05	8.99	9.18	0.0	10.00
			36	21	19.74	21.09	21.42	21.13	21.32	21.23	0.0	22.0	9.04	9.04	9.15	9.06	9.08	9.15	0.0	10.00
			36	42	20.82	21.27	21.26	21.06	21.33	21.42	0.5	21.5	9.06	8.96	9.08	9.15	9.11	9.13	0.0	10.00
			75	0	20.84	21.18	21.31	20.89	21.18	21.12	0.5	21.5	9.05	9.05	9.14	9.08	9.11	9.12	0.0	10.00
		QPSK	1	1	21.53	21.19	21.25	21.32	21.25	21.38	0.0	22.0	9.18	8.87	9.28	9.21	8.93	9.27	0.0	10.00
			1	39	21.12	21.29	21.34	21.21	21.46	21.22	0.0	22.0	9.14	9.11	9.21	9.15	9.18	9.20	0.0	10.00
			1	76	21.21	21.21	21.36	21.22	20.45	21.36	0.0	22.0	9.01	8.89	9.20	9.22	9.06	9.28	0.0	10.00
			36	0	20.62	20.38	20.67	20.49	20.51	20.62	1.0	21.0	9.08	9.01	9.27	9.06	9.04	9.21	0.0	10.00
			36	21	21.21	21.18	21.41	21.07	21.11	21.15	0.0	22.0	9.08	9.05	9.17	9.08	9.13	9.14	0.0	10.00
			36	42	20.93	20.87	20.56	20.48	20.75	20.86	1.0	21.0	9.06	9.00	9.10	9.17	9.09	9.18	0.0	10.00
			75	0	20.38	20.37	20.78	20.42	20.33	20.33	1.0	21.0	9.06	9.03	9.16	9.08	9.11	9.14	0.0	10.00
		16QAM	1	1	20.20	20.48	20.41	20.59	20.56	20.36	1.0	21.0	9.20	8.88	9.33	9.27	8.97	9.28	0.0	10.00
		64QAM	1	1	19.39	18.89	18.87	19.08	18.87	18.82	2.5	19.5	9.12	8.81	9.26	9.17	8.89	9.21	0.0	10.00
		256QAM	1	1	17.28	16.54	16.82	17.04	16.72	16.52	4.5	17.5	9.12	8.84	9.28	9.19	8.90	9.23	0.0	10.00
	CP-OFDM	QPSK	1	1	20.07	20.04	19.82	20.08	18.52	19.95	1.5	20.5	9.18	8.88	9.32	9.23	8.93	9.27	0.0	10.00

Note(s):

NR Band n78 is covered by NR Band n77.

NR Band n77(Main.2 SRS0)- Upper Band- Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
					647334	650800	654266	657734	661200	664666			647334	650800	654266	657734	661200	664666		
					3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz			3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz		
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.31	21.18	21.11	21.32	21.22	21.08	0.0	22.0	9.12	8.91	9.18	9.18	9.01	9.28	0.0	10.00
			1	26	21.11	21.32	21.45	21.16	21.44	21.16	0.0	22.0	9.13	9.08	9.14	9.11	9.14	9.16	0.0	10.00
			1	49	21.07	21.28	21.29	21.33	21.55	21.45	0.0	22.0	9.05	8.94	9.21	9.24	9.16	9.32	0.0	10.00
			25	0	21.08	20.87	21.18	20.82	21.13	21.21	0.5	21.5	9.15	9.01	9.20	9.13	9.02	9.17	0.0	10.00
			25	13	19.81	21.04	21.36	21.08	21.36	21.18	0.0	22.0	9.02	9.04	9.18	9.08	9.08	9.16	0.0	10.00
			25	26	20.82	21.33	21.33	21.11	21.41	21.36	0.5	21.5	9.13	9.03	9.12	9.21	9.09	9.05	0.0	10.00
			50	0	20.83	21.24	21.38	20.82	21.21	21.07	0.5	21.5	9.12	9.12	9.06	9.11	9.05	9.06	0.0	10.00
		QPSK	1	1	21.45	21.19	21.26	21.36	21.29	21.35	0.0	22.0	9.21	8.89	9.04	9.20	8.90	9.28	0.0	10.00
			1	26	21.16	21.28	21.32	21.18	21.45	21.16	0.0	22.0	9.17	9.09	9.05	9.21	9.18	9.17	0.0	10.00
			1	49	21.21	21.24	21.39	21.24	20.52	21.35	0.0	22.0	9.02	8.92	9.08	9.23	9.05	9.32	0.0	10.00
			25	0	20.67	20.44	20.69	20.62	20.55	20.54	1.0	21.0	9.12	9.04	9.26	9.08	9.03	9.20	0.0	10.00
			25	13	21.14	21.25	21.42	21.21	21.18	21.21	0.0	22.0	9.13	9.06	9.21	9.12	9.15	9.18	0.0	10.00
			25	26	20.92	20.79	20.55	20.44	20.82	20.89	1.0	21.0	9.14	9.06	9.08	9.21	9.12	9.18	0.0	10.00
			50	0	20.62	20.36	20.87	20.38	20.34	20.28	1.0	21.0	9.12	9.02	9.18	9.08	9.12	9.12	0.0	10.00
		16QAM	1	1	20.25	20.52	20.39	20.54	20.55	20.38	1.0	21.0	9.11	8.89	9.26	9.29	9.02	9.32	0.0	10.00
		64QAM	1	1	19.44	18.89	18.89	19.16	18.89	18.77	2.5	19.5	9.13	9.00	9.32	9.16	8.92	9.21	0.0	10.00
		256QAM	1	1	17.35	16.48	16.79	17.05	16.67	16.49	4.5	17.5	9.11	8.84	9.24	9.21	8.92	9.18	0.0	10.00
	CP-OFDM	QPSK	1	1	20.35	19.99	19.77	20.08	18.54	19.97	1.5	20.5	9.21	8.92	9.30	9.25	8.84	9.33	0.0	10.00

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
					647334	650800	654266	657734	661200	664666			647334	650800	654266	657734	661200	664666		
					3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz			3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.32	21.40	20.81	21.69	21.81	21.91	0.0	22.0	9.26	8.99	9.42	9.16	8.87	9.24	0.0	10.00
			1	26	21.35	21.50	20.97	21.82	21.82	21.92	0.0	22.0	9.15	9.16	9.33	9.19	9.15	9.16	0.0	10.00
			1	49	21.39	21.53	20.97	21.67	21.74	21.85	0.0	22.0	9.19	9.13	9.27	9.31	9.09	9.24	0.0	10.00
			25	0	21.12	21.34	20.81	21.50	21.44	21.41	0.5	21.5	9.21	9.07	9.39	9.12	9.04	9.15	0.0	10.00
			25	13	21.37	21.61	21.08	21.67	21.85	21.93	0.0	22.0	9.16	9.17	9.39	9.22	9.07	9.16	0.0	10.00
			25	26	21.20	21.45	20.85	21.49	21.41	21.44	0.5	21.5	9.16	9.16	9.23	9.26	9.06	9.18	0.0	10.00
			50	0	21.15	21.37	20.81	21.43	21.43	21.41	0.5	21.5	9.15	9.18	9.32	9.20	9.08	9.05	0.0	10.00
		QPSK	1	1	20.87	21.40	20.77	21.40	21.67	21.95	0.0	22.0	9.29	9.04	9.46	9.21	8.92	9.26	0.0	10.00
			1	26	21.06	21.52	20.99	21.50	21.80	21.92	0.0	22.0	9.17	9.19	9.33	9.21	9.13	9.17	0.0	10.00
			1	49	21.08	21.51	20.97	20.42	21.71	21.83	0.0	22.0	9.20	9.16	9.28	9.31	9.04	9.28	0.0	10.00
			25	0	20.48	20.73	20.36	20.89	20.93	20.93	1.0	21.0	9.25	9.12	9.38	9.15	9.05	9.18	0.0	10.00
			25	13	21.12	21.58	21.07	21.59	21.84	21.91	0.0	22.0	9.18	9.19	9.33	9.23	9.07	9.08	0.0	10.00
			25	26	20.58	20.91	20.44	20.91	21.00	20.93	1.0	21.0	9.18	9.17	9.23	9.27	9.09	9.16	0.0	10.00
			50	0	20.62	20.87	20.37	20.95	20.91	20.91	1.0	21.0	9.19	9.17	9.32	9.21	9.08	9.02	0.0	10.00
		16QAM	1	1	20.37	20.64	20.26	20.93	20.89	20.89	1.0	21.0	9.35	9.06	9.46	9.26	9.04	9.27	0.0	10.00
		64QAM	1	1	19.36	19.17	19.44	19.14	19.42	17.43	2.5	19.5	9.23	8.99	9.38	9.16	8.89	9.16	0.0	10.00
		256QAM	1	1	17.27	17.01	17.42	17.45	17.44	17.29	4.5	17.5	9.27	9.01	9.39	9.19	8.84	9.18	0.0	10.00
	CP-OFDM	QPSK	1	1	20.31	20.20	20.35	20.20	20.43	20.43	1.5	20.5	9.31	9.05	9.43	9.23	8.81	9.28	0.0	10.00

Note(s):

NR Band n78 is covered by NR Band n77.

NR Band n77(Main.2 SRS0)- Upper Band- Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
					647168	650700	654234	657766	661300	664832			647168	650700	654234	657766	661300	664832		
					3707.52 MHz	3760.5 MHz	3813.51 MHz	3866.49 MHz	3919.5 MHz	3972.48 MHz			3707.52 MHz	3760.5 MHz	3813.51 MHz	3866.49 MHz	3919.5 MHz	3972.48 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.29	21.38	20.78	21.68	21.81	21.91	0.0	22.0	9.26	9.01	9.33	9.19	8.99	9.16	0.0	10.00
			1	19	21.37	21.51	21.00	21.81	21.92	21.92	0.0	22.0	9.16	9.12	9.28	9.23	9.26	9.17	0.0	10.00
			1	36	21.41	21.51	21.01	21.70	21.82	21.78	0.0	22.0	9.15	9.02	9.29	9.33	9.14	9.23	0.0	10.00
			18	0	21.08	21.32	20.80	21.39	21.39	21.42	0.5	21.5	9.18	9.03	9.33	9.12	8.99	9.22	0.0	10.00
			18	10	21.35	21.61	21.12	21.67	21.78	21.99	0.0	22.0	9.16	9.11	9.37	9.20	9.05	9.20	0.0	10.00
			18	20	21.15	21.41	20.91	21.44	21.35	21.44	0.5	21.5	9.16	9.12	9.31	9.26	9.08	9.26	0.0	10.00
			36	0	21.10	21.35	20.81	21.43	21.41	21.41	0.5	21.5	9.15	9.14	9.26	9.32	9.07	9.24	0.0	10.00
		QPSK	1	1	20.89	21.37	20.84	21.42	21.73	21.92	0.0	22.0	9.26	9.23	9.46	9.23	8.92	9.23	0.0	10.00
			1	19	21.14	21.61	20.91	21.45	21.81	21.95	0.0	22.0	9.15	9.22	9.26	9.22	9.14	9.20	0.0	10.00
			1	36	21.13	21.46	20.94	20.46	21.69	21.78	0.0	22.0	9.18	9.26	9.28	9.23	9.02	9.18	0.0	10.00
			18	0	20.46	20.77	20.31	20.91	20.91	20.94	1.0	21.0	9.26	9.28	9.43	9.34	9.14	9.13	0.0	10.00
			18	10	21.14	21.51	21.11	21.63	21.82	21.98	0.0	22.0	9.15	9.28	9.33	9.35	9.13	9.13	0.0	10.00
			18	20	20.58	20.92	20.41	20.91	20.89	20.92	1.0	21.0	9.14	9.23	9.34	9.28	9.14	9.08	0.0	10.00
			36	0	20.57	20.91	20.38	20.94	21.00	20.92	1.0	21.0	9.12	9.26	9.30	9.21	9.13	9.03	0.0	10.00
		16QAM	1	1	20.44	20.68	20.27	19.21	19.61	20.93	1.0	21.0	9.13	9.36	9.45	9.32	9.05	9.22	0.0	10.00
		64QAM	1	1	19.41	19.21	19.41	19.21	17.61	19.44	2.5	19.5	9.17	9.00	9.44	9.25	8.92	9.23	0.0	10.00
		256QAM	1	1	17.28	17.12	17.44	17.46	17.38	17.42	4.5	17.5	9.28	9.02	9.42	9.22	8.88	9.18	0.0	10.00
	CP-OFDM	QPSK	1	1	20.30	20.21	20.28	20.20	20.32	20.43	1.5	20.5	9.25	9.08	9.39	9.18	8.76	9.32	0.0	10.00

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
					647000	650600	654200	657800	661400	665000			647000	650600	654200	657800	661400	665000		
					3705 MHz	3759 MHz	3813 MHz	3867 MHz	3921 MHz	3975 MHz			3705 MHz	3759 MHz	3813 MHz	3867 MHz	3921 MHz	3975 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	21.30	21.41	20.77	21.66	21.79	21.90	0.0	22.0	9.34	8.97	9.33	9.21	9.08	9.19	0.0	10.00
			1	12	21.36	21.53	20.96	21.79	21.85	21.94	0.0	22.0	9.27	9.12	9.34	9.22	9.22	9.34	0.0	10.00
			1	22	21.38	21.51	20.99	21.65	21.77	21.81	0.0	22.0	9.26	9.03	9.31	9.26	9.09	9.40	0.0	10.00
			12	0	21.10	21.32	20.76	21.47	21.48	21.40	0.5	21.5	9.22	9.02	9.30	9.30	9.14	9.24	0.0	10.00
			12	6	21.36	21.60	21.06	21.67	21.82	21.88	0.0	22.0	9.21	9.11	9.27	9.10	9.14	9.31	0.0	10.00
			12	12	21.22	21.44	20.88	21.47	21.39	21.40	0.5	21.5	9.20	9.14	9.36	9.28	9.15	9.35	0.0	10.00
			24	0	21.14	21.38	20.84	21.45	20.34	21.38	0.5	21.5	9.32	9.16	9.28	9.26	9.18	9.31	0.0	10.00
		QPSK	1	1	20.87	21.39	20.75	21.41	21.66	21.91	0.0	22.0	9.32	9.12	9.26	9.15	9.22	9.24	0.0	10.00
			1	12	21.05	21.55	20.92	21.53	21.77	21.95	0.0	22.0	9.24	9.15	9.27	9.13	9.24	9.32	0.0	10.00
			1	22	21.06	21.53	20.94	20.45	21.70	21.81	0.0	22.0	9.21	9.21	9.25	9.12	9.16	9.42	0.0	10.00
			12	0	20.47	20.76	20.32	20.92	20.91	20.82	1.0	21.0	9.33	9.20	9.21	9.16	9.21	9.28	0.0	10.00
			12	6	21.10	21.53	21.05	21.61	21.84	21.90	0.0	22.0	9.26	9.23	9.24	9.14	9.21	9.32	0.0	10.00
			12	12	20.57	20.90	20.41	20.94	20.99	20.92	1.0	21.0	9.23	9.35	9.21	9.10	9.23	9.37	0.0	10.00
			24	0	20.64	20.85	20.38	20.92	20.95	20.87	1.0	21.0	9.20	9.31	9.30	9.11	9.21	9.31	0.0	10.00
		16QAM	1	1	20.36	20.65	20.27	20.92	20.85	20.82	1.0	21.0	9.12	9.32	9.28	9.23	9.28	9.27	0.0	10.00
		64QAM	1	1	19.35	19.15	19.41	19.18	19.44	19.44	2.5	19.5	9.11	9.10	9.14	9.21	9.17	9.19	0.0	10.00
		256QAM	1	1	17.28	17.07	17.39	17.41	17.39	17.35	4.5	17.5	9.32	8.92	9.22	9.07	9.21	9.22	0.0	10.00
	CP-OFDM	QPSK	1	1	20.32	20.24	20.31	20.17	20.41	20.41	1.5	20.5	9.33	9.23	9.31	9.24	9.23	9.25	0.0	10.00

Note(s):

NR Band n78 is covered by NR Band n77.

NR Band n77 (Sub.2 SRS1) - Upper Band- Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)															
		DSI =0								DSI =1							
		Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		650000		656000		662000				650000		656000		662000			
		3750 MHz		3840 MHz		3930 MHz				3750 MHz		3840 MHz		3930 MHz			
100 MHz	SRS CW	20.6				20.8		0.0	22.0	9.4				9.7		0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		649668		656000		662332				649668		656000		662332			
		3745.02 MHz		3840 MHz		3934.98 MHz				3745.02 MHz		3840 MHz		3934.98 MHz			
90 MHz	SRS CW	20.4		20.3		20.8		0.0	22.0	9.1		9.6		9.6		0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		649334		656000		662666				649334		656000		662666			
		3740.01 MHz		3840 MHz		3939.99 MHz				3740.01 MHz		3840 MHz		3939.99 MHz			
80 MHz	SRS CW	20.2		20.4		20.7		0.0	22.0	9.2		9.5		9.6		0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		649000	653666			658334	663000			649000	653666			658334	663000		
		3735 MHz	3804.99 MHz			3875.01 MHz	3945 MHz			3735 MHz	3804.99 MHz			3875.01 MHz	3945 MHz		
70 MHz	SRS CW	20.3	20.1			20.8	20.7	0.0	22.0	9.2	9.3			9.6	9.5	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		648668	653556			658444	663332			648668	653556			658444	663332		
		3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz			3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz		
60 MHz	SRS CW	20.3	20.1			20.8	20.8	0.0	22.0	9.1	9.2			9.6	9.6	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		648334	652166	656000		659834	663666			648334	652166	656000		659834	663666		
		3725.01 MHz	3782.49 MHz	3840 MHz		3897.51 MHz	3954.99 MHz			3725.01 MHz	3782.49 MHz	3840 MHz		3897.51 MHz	3954.99 MHz		
50 MHz	SRS CW	20.2	20.1	20.4		20.6	21.0	0.0	22.0	9.1	9.0	9.6		9.7	9.7	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		648000	651200	654400	657600	660800	664000			648000	651200	654400	657600	660800	664000		
		3720 MHz	3768 MHz	3816 MHz	3864 MHz	3912 MHz	3960 MHz			3720 MHz	3768 MHz	3816 MHz	3864 MHz	3912 MHz	3960 MHz		
40 MHz	SRS CW	20.6	19.9	20.2	20.6	20.5	21.0	0.0	22.0	8.8	8.6	9.5	9.7	9.3	9.8	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		647668	651000	654334	657666	661000	664332			647668	651000	654334	657666	661000	664332		
		3715.02 MHz	3765 MHz	3815.01 MHz	3864.99 MHz	3915 MHz	3964.98 MHz			3715.02 MHz	3765 MHz	3815.01 MHz	3864.99 MHz	3915 MHz	3964.98 MHz		
30 MHz	SRS CW	19.9	20.1	20.0	20.5	20.5	20.9	0.0	22.0	8.8	8.7	9.6	9.6	9.3	9.8	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		647334	650800	654266	657734	661200	664666			647334	650800	654266	657734	661200	664666		
		3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz			3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz		
25 MHz	SRS CW	19.8	20.0	20.1	20.6	20.4	20.9	0.0	22.0	8.9	8.7	9.6	9.5	9.5	9.8	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		647334	650800	654266	657734	661200	664666			647334	650800	654266	657734	661200	664666		
		3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz			3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz		
20 MHz	SRS CW	19.8	19.7	20.0	19.6	19.7	20.2	0.0	22.0	8.9	8.7	9.6	9.6	9.5	9.7	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		647168	650700	654234	657766	661300	664832			647168	650700	654234	657766	661300	664832		
		3707.52 MHz	3760.5 MHz	3813.51 MHz	3866.49 MHz	3919.5 MHz	3972.48 MHz			3707.52 MHz	3760.5 MHz	3813.51 MHz	3866.49 MHz	3919.5 MHz	3972.48 MHz		
15 MHz	SRS CW	19.5	19.9	19.6	19.8	19.8	20.2	0.0	22.0	8.9	8.7	9.6	9.6	9.5	9.7	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		647000	650600	654200	657800	661400	665000			647000	650600	654200	657800	661400	665000		
		3705 MHz	3759 MHz	3813 MHz	3867 MHz	3921 MHz	3975 MHz			3705 MHz	3759 MHz	3813 MHz	3867 MHz	3921 MHz	3975 MHz		
10 MHz	SRS CW	19.6	20.0	19.6	19.7	19.7	20.1	0.0	22.0	9.0	8.6	9.6	9.5	9.5	9.7	0.0	10.0

Notes:

NR Band n77 (SRS1) were measured output power through FTM mode provided by manufacturer.

NR Band n77 (Sub.4 SRS2) - Upper Band- Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)															
		DSI =0								DSI =1							
		Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		650000		656000		662000				650000		656000		662000			
		3750 MHz		3840 MHz		3930 MHz				3750 MHz		3840 MHz		3930 MHz			
100 MHz	SRS CW	18.5				18.9		0.0	19.0	8.6				8.8		0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		649668		656000		662332				649668		656000		662332			
		3745.02 MHz		3840 MHz		3934.98 MHz				3745.02 MHz		3840 MHz		3934.98 MHz			
90 MHz	SRS CW	18.9		18.8		18.9		0.0	19.0	8.7		8.0		8.6		0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		649334		656000		662666				649334		656000		662666			
		3740.01 MHz		3840 MHz		3939.99 MHz				3740.01 MHz		3840 MHz		3939.99 MHz			
80 MHz	SRS CW	18.9		18.7		18.8		0.0	19.0	8.9		8.0		8.7		0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		649000	653666			658334	663000			649000	653666			658334	663000		
		3735 MHz	3804.99 MHz			3875.01 MHz	3945 MHz			3735 MHz	3804.99 MHz			3875.01 MHz	3945 MHz		
70 MHz	SRS CW	19.0	18.8			18.8	18.9	0.0	19.0	9.0	7.9			8.3	8.6	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		648668	653556			658444	663332			648668	653556			658444	663332		
		3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz			3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz		
60 MHz	SRS CW	18.9	18.7			18.9	18.9	0.0	19.0	9.1	7.8			8.4	8.7	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		648334	652166	656000		659834	663666			648334	652166	656000		659834	663666		
		3725.01 MHz	3782.49 MHz	3840 MHz		3897.51 MHz	3954.99 MHz			3725.01 MHz	3782.49 MHz	3840 MHz		3897.51 MHz	3954.99 MHz		
50 MHz	SRS CW	18.8	18.8	18.7		18.7	18.8	0.0	19.0	9.0	7.8	8.0		8.3	8.6	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		648000	651200	654400	657600	660800	664000			648000	651200	654400	657600	660800	664000		
		3720 MHz	3768 MHz	3816 MHz	3864 MHz	3912 MHz	3960 MHz			3720 MHz	3768 MHz	3816 MHz	3864 MHz	3912 MHz	3960 MHz		
40 MHz	SRS CW	18.5	18.8	18.6	18.9	19.0	18.9	0.0	19.0	7.7	8.0	7.7	8.2	8.3	8.5	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		647668	651000	654334	657666	661000	664332			647668	651000	654334	657666	661000	664332		
		3715.02 MHz	3765 MHz	3815.01 MHz	3864.99 MHz	3915 MHz	3964.98 MHz			3715.02 MHz	3765 MHz	3815.01 MHz	3864.99 MHz	3915 MHz	3964.98 MHz		
30 MHz	SRS CW	18.5	18.6	18.4	18.9	18.7	18.9	0.0	19.0	7.7	8.0	7.7	8.2	8.3	8.5	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		647334	650800	654266	657734	661200	664666			647334	650800	654266	657734	661200	664666		
		3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz			3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz		
25 MHz	SRS CW	18.5	18.6	16.6	18.9	18.8	18.9	0.0	19.0	9.2	8.1	8.1	8.1	8.6	8.7	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		647334	650800	654266	657734	661200	664666			647334	650800	654266	657734	661200	664666		
		3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz			3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz		
20 MHz	SRS CW	18.5	18.6	18.6	19.0	18.8	18.9	0.0	19.0	9.2	8.1	8.1	8.1	8.6	8.6	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		647168	650700	654234	657766	661300	664832			647168	650700	654234	657766	661300	664832		
		3707.52 MHz	3760.5 MHz	3813.51 MHz	3866.49 MHz	3919.5 MHz	3972.48 MHz			3707.52 MHz	3760.5 MHz	3813.51 MHz	3866.49 MHz	3919.5 MHz	3972.48 MHz		
15 MHz	SRS CW	18.3	18.3	18.2	18.6	18.4	18.6	0.0	19.0	9.2	8.2	8.1	8.1	8.6	8.6	0.0	10.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		647000	650600	654200	657800	661400	665000			647000	650600	654200	657800	661400	665000		
		3705 MHz	3759 MHz	3813 MHz	3867 MHz	3921 MHz	3975 MHz			3705 MHz	3759 MHz	3813 MHz	3867 MHz	3921 MHz	3975 MHz		
10 MHz	SRS CW	18.2	18.5	18.5	18.8	18.5	18.6	0.0	19.0	9.2	8.1	8.1	8.1	8.6	8.6	0.0	10.0

Notes:

NR Band n77 (SRS2) were measured output power through FTM mode provided by manufacturer

NR Band n77 (Sub.3 SRS3) - Upper Band- Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)															
		DSI =0								DSI =1							
		Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		650000		656000		662000				650000		656000		662000			
		3750 MHz		3840 MHz		3930 MHz				3750 MHz		3840 MHz		3930 MHz			
100 MHz	SRS CW	16.7				17.8		0.0	18.0	7.6				6.2		0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		649668		656000		662332				649668		656000		662332			
		3745.02 MHz		3840 MHz		3934.98 MHz				3745.02 MHz		3840 MHz		3934.98 MHz			
90 MHz	SRS CW	16.5		17.4		17.8		0.0	18.0	7.5		7.2		6.1		0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		649334		656000		662666				649334		656000		662666			
		3740.01 MHz		3840 MHz		3939.99 MHz				3740.01 MHz		3840 MHz		3939.99 MHz			
80 MHz	SRS CW	16.4		17.4		17.9		0.0	18.0	7.4		7.2		6.1		0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		649000	653666			658334	663000			649000	653666			658334	663000		
		3735 MHz	3804.99 MHz			3875.01 MHz	3945 MHz			3735 MHz	3804.99 MHz			3875.01 MHz	3945 MHz		
70 MHz	SRS CW	16.4	16.9			17.7	17.9	0.0	18.0	7.4	7.3			6.1	6.0	0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		648668	653556			658444	663332			648668	653556			658444	663332		
		3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz			3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz		
60 MHz	SRS CW	16.3	16.9			17.7	18.0	0.0	18.0	7.4	7.3			6.1	6.0	0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		648334	652166	656000		659834	663666			648334	652166	656000		659834	663666		
		3725.01 MHz	3782.49 MHz	3840 MHz		3897.51 MHz	3954.99 MHz			3725.01 MHz	3782.49 MHz	3840 MHz		3897.51 MHz	3954.99 MHz		
50 MHz	SRS CW	16.2	17.1	17.4		17.4	18.0	0.0	18.0	7.4	7.3	7.1		6.1	6.0	0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		648000	651200	654400	657600	660800	664000			648000	651200	654400	657600	660800	664000		
		3720 MHz	3768 MHz	3816 MHz	3864 MHz	3912 MHz	3960 MHz			3720 MHz	3768 MHz	3816 MHz	3864 MHz	3912 MHz	3960 MHz		
40 MHz	SRS CW	16.2	17.1	17.0	17.4	17.6	18.0	0.0	18.0	7.3	7.3	7.1	7.0	6.1	6.1	0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		647668	651000	654334	657666	661000	664332			647668	651000	654334	657666	661000	664332		
		3715.02 MHz	3765 MHz	3815.01 MHz	3864.99 MHz	3915 MHz	3964.98 MHz			3715.02 MHz	3765 MHz	3815.01 MHz	3864.99 MHz	3915 MHz	3964.98 MHz		
30 MHz	SRS CW	16.3	17.1	17.0	17.4	17.6	18.0	0.0	18.0	7.4	7.3	7.1	6.9	5.9	6.0	0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		647334	650800	654266	657734	661200	664666			647334	650800	654266	657734	661200	664666		
		3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz			3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz		
25 MHz	SRS CW	16.1	17.0	17.0	17.5	17.6	18.0	0.0	18.0	7.4	7.2	7.0	6.8	6.0	6.0	0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		647334	650800	654266	657734	661200	664666			647334	650800	654266	657734	661200	664666		
		3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz			3710.01 MHz	3762 MHz	3813.99 MHz	3866.01 MHz	3918 MHz	3969.99 MHz		
20 MHz	SRS CW	15.5	16.3	16.3	16.8	17.0	17.5	0.0	18.0	7.3	7.3	7.1	6.9	6.1	6.0	0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		647168	650700	654234	657766	661300	664832			647168	650700	654234	657766	661300	664832		
		3707.52 MHz	3760.5 MHz	3813.51 MHz	3866.49 MHz	3919.5 MHz	3972.48 MHz			3707.52 MHz	3760.5 MHz	3813.51 MHz	3866.49 MHz	3919.5 MHz	3972.48 MHz		
15 MHz	SRS CW	15.5	15.8	16.8	17.2	17.4	17.7	0.0	18.0	7.3	7.1	7.0	6.7	5.9	5.9	0.0	8.0
BW (MHz)	Mode	Measured Pwr (dBm)						MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		647000	650600	654200	657800	661400	665000			647000	650600	654200	657800	661400	665000		
		3705 MHz	3759 MHz	3813 MHz	3867 MHz	3921 MHz	3975 MHz			3705 MHz	3759 MHz	3813 MHz	3867 MHz	3921 MHz	3975 MHz		
10 MHz	SRS CW	15.9	16.9	16.8	17.2	17.4	17.6	0.0	18.0	7.3	7.1	7.0	6.9	5.8	5.9	0.0	8.0

Notes:

NR Band n77 (SRS3) were measured output power through FTM mode provided by manufacturer

9.4 Wi-Fi 2.4 GHz (DTS Band)

WLAN output power results

SISO power Results

Antenna	Mode	Data Rate	Ch #	Freq. (MHz)	Max.Average Power (dBm)			Reduced Average Power		
					Meas. Avg Pwr	Max. Tune-up Limit	SAR Test (Yes/No)	Meas. Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
WiFi 2.4G SISO Ant.1	802.11b	1 Mbps	1	2412.0	19.14	20.0	Yes	10.96	12.0	Yes
			6	2437.0	18.86			11.01		
			11	2462.0	19.07			11.16		
	802.11g	6 Mbps	1 - 11	2412 - 2462	Not Required	18.0	No	Not Required	12.0	No
	802.11n	6.5 Mbps	1 - 11	2412 - 2462	Not Required	17.0	No	Not Required	12.0	No
	802.11ax	7.3 Mbps	1 - 11	2412 - 2462	Not Required	16.0	No	Not Required	12.0	No

MIMO power Results

Antenna	Mode	Data Rate	Ch #	Freq. (MHz)	Max.Average Power (dBm)			Reduced Average Power		
					Meas. Avg Pwr	Max. Tune-up Limit	SAR Test (Yes/No)	Meas. Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
WiFi 2.4G MIMO Ant.1	802.11b	1 Mbps	1	2412.0	19.28	20.0	Yes	11.44	12.0	Yes
			6	2437.0	19.09			11.21		
			11	2462.0	19.30			11.40		
	802.11g	6 Mbps	1 - 11	2412 - 2462	Not Required	18.0	No	Not Required	12.0	No
	802.11n	6.5 Mbps	1 - 11	2412 - 2462	Not Required	17.0	No	Not Required	12.0	No
	802.11ax	7.3 Mbps	1 - 11	2412 - 2462	Not Required	16.0	No	Not Required	12.0	No

Antenna	Mode	Data Rate	Ch #	Freq. (MHz)	Max.Average Power (dBm)			Reduced Average Power		
					Meas. Avg Pwr	Max. Tune-up Limit	SAR Test (Yes/No)	Meas. Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
WiFi 2.4G MIMO Ant.2	802.11b	1 Mbps	1	2412.0	18.76	20.0	Yes	10.10	12.0	Yes
			6	2437.0	18.50			10.63		
			11	2462.0	18.54			10.33		
	802.11g	6 Mbps	1 - 11	2412 - 2462	Not Required	18.0	No	Not Required	12.0	No
	802.11n	6.5 Mbps	1 - 11	2412 - 2462	Not Required	17.0	No	Not Required	12.0	No
	802.11ax	7.3 Mbps	1 - 11	2412 - 2462	Not Required	16.0	No	Not Required	12.0	No

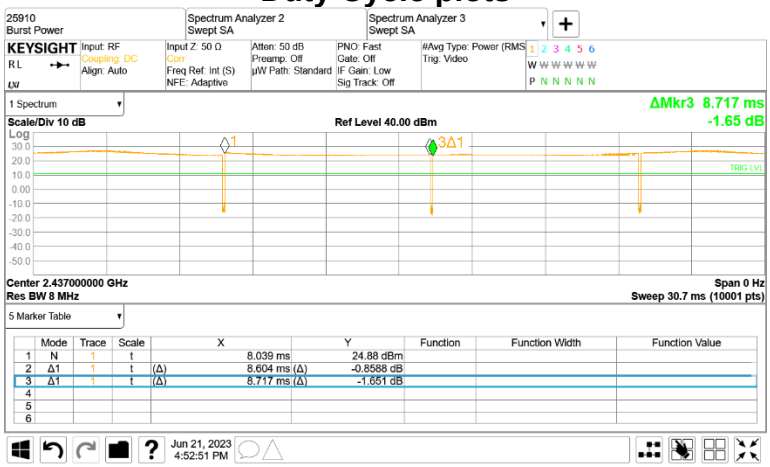
Note(s):

1. SAR is not required for 802.11g/n modes when the adjusted SAR for 802.11b is < 1.2 W/kg.
2. For “Not required”, SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11n/g/ax mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.
3. Additionally, SAR is not required for Channels 12 and 13 because the tune-up limit and the measured output power for these two channels are no greater than those for the default test channels. Refer to §6.3.

Duty Factor Measured Results

Mode	Ant Type	T on (ms)	Period (ms)	Duty Cycle	Crest Factor (1/duty cycle)
802.11b	Ant 2	8.604	8.717	98.7%	1.01

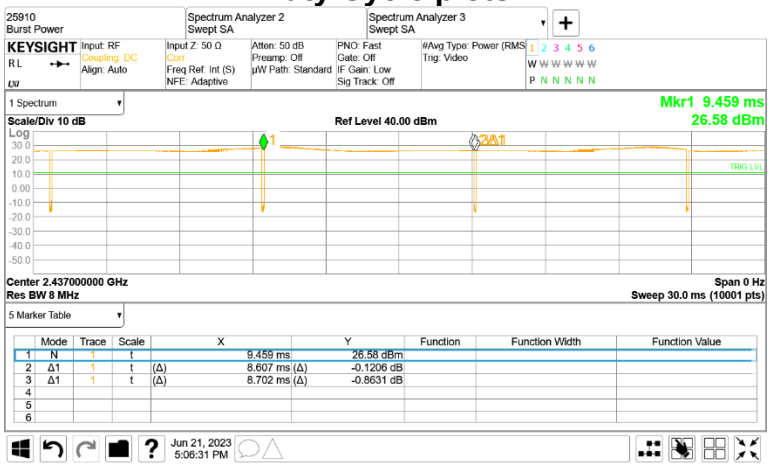
Duty Cycle plots



Duty Factor Measured Results

Mode	Ant Type	T on (ms)	Period (ms)	Duty Cycle	Crest Factor (1/duty cycle)
802.11b	MIMO	8.607	8.702	98.9%	1.01

Duty Cycle plots



9.5 Wi-Fi 5GHz (U-NII Band)

WLAN SISO Ant.2 output power Results

Antenna	Band (GHz)	Mode	Data Rate	Ch #	Freq. (MHz)	WLAN mode power					
						Max. Average Power			Reduced Average Power		
						Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)	Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
WiFi 5GHz SISO Ant.2	5.3 (UNII 2A)	802.11a	6 Mbps	52	5260.0	14.06	15.0	Yes	Not Required	6.5	No
				56	5280.0	14.08					
				60	5300.0	13.81					
				64	5320.0	13.82					
		802.11n (HT20)	6.5 Mbps	Not Required			14.0	No	Not Required	6.5	No
		802.11n (HT40)	13.5 Mbps	Not Required			12.0	No	Not Required	6.5	No
		802.11ac (VHT20)	6.5 Mbps	Not Required			14.0	No	Not Required	6.5	No
		802.11ac (VHT40)	13.5 Mbps	Not Required			12.0	No	Not Required	6.5	No
		802.11ac (VHT80)	29.3 Mbps	58	5290.0	Not Required	8.0	No	5.58	6.5	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required			14.0	No	Not Required	6.5	No
		802.11ax (HE40)	14.6 Mbps	Not Required			12.0	No	Not Required	6.5	No
		802.11ax (HE80)	36 Mbps	Not Required			8.0	No	Not Required	6.5	No
	5.5 (U-NII 2C)	802.11a	6 Mbps	100	5500.0	16.27	17.0	Yes	Not Required	8.5	No
				120	5600.0	16.32					
				124	5620.0	16.15					
				140	5700.0	16.09			9.55	10.0	Yes
				144	5720.0	16.00			Not Required	8.5	No
		802.11n (HT20)	6.5 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11n (HT40)	13.5 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ac (VHT20)	6.5 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11ac (VHT40)	13.5 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ac (VHT80)	29.3 Mbps	Not Required			13.0	No	Not Required	8.5	No
		802.11ax (HE20)	7.3 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11ax (HE40)	14.6 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ax (HE80)	36 Mbps	Not Required			13.0	No	Not Required	8.5	No
	5.8 (U-NII 3)	802.11a	6 Mbps	149	5745.0	16.15	17.0	Yes	Not Required	8.5	No
				157	5785.0	16.18			9.32	9.5	Yes
				165	5825.0	16.26			Not Required	8.5	No
		802.11n (HT20)	6.5 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11n (HT40)	13.5 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ac (VHT20)	6.5 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11ac (VHT40)	13.5 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ac (VHT80)	29.3 Mbps	Not Required			13.0	No	Not Required	8.5	No
		802.11ax (HE20)	7.3 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11ax (HE40)	14.6 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ax (HE80)	36 Mbps	Not Required			13.0	No	Not Required	8.5	No

Note(s):

1. For “Not required”, SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.
2. When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.
3. When the specified maximum output power is the same for both UNII band I and UNII band 2A, begin SAR measurement in UNII band 2A; and if the highest *reported* SAR for UNII band 2A is
   - ≤ 1.2 W/kg, SAR is not required for UNII band I
   - > 1.2 W/kg, both bands should be tested independently for SAR.

WLAN MIMO Ant.1 output power Results

Antenna	Band (GHz)	Mode	Data Rate	Ch #	Freq. (MHz)	WLAN mode power					
						Max. Average Power			Reduced Average Power		
						Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)	Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
WiFi 5GHz MIMO Ant.1	5.3 (UNII 2A)	802.11a	6 Mbps	52	5260.0	14.58	15.0	Yes	Not Required	6.5	No
				56	5280.0	14.21					
				60	5300.0	14.87					
				64	5320.0	14.36					
		802.11n (HT20)	6.5 Mbps	Not Required			14.0	No	Not Required	6.5	No
		802.11n (HT40)	13.5 Mbps	Not Required			12.0	No	Not Required	6.5	No
		802.11ac (VHT20)	6.5 Mbps	Not Required			14.0	No	Not Required	6.5	No
		802.11ac (VHT40)	13.5 Mbps	Not Required			12.0	No	Not Required	6.5	No
		802.11ac (VHT80)	29.3 Mbps	58	5290.0	Not Required	8.0	No	6.06	6.5	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required			14.0	No	Not Required	6.5	No
		802.11ax (HE40)	14.6 Mbps	Not Required			12.0	No	Not Required	6.5	No
		802.11ax (HE80)	36 Mbps	Not Required			8.0	No	Not Required	6.5	No
	5.5 (U-NII 2C)	802.11a	6 Mbps	100	5500.0	16.26	17.0	Yes	Not Required	8.5	No
				120	5600.0	16.48					
				124	5620.0	16.61					
				140	5700.0	16.55			9.81	10.0	Yes
				144	5720.0	16.22			Not Required	8.5	No
		802.11n (HT20)	6.5 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11n (HT40)	13.5 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ac (VHT20)	6.5 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11ac (VHT40)	13.5 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ac (VHT80)	29.3 Mbps	Not Required			13.0	No	Not Required	8.5	No
		802.11ax (HE20)	7.3 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11ax (HE40)	14.6 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ax (HE80)	36 Mbps	Not Required			13.0	No	Not Required	8.5	No
	5.8 (U-NII 3)	802.11a	6 Mbps	149	5745.0	16.55	17.0	Yes	Not Required	8.5	No
				157	5785.0	16.25			9.49	9.5	Yes
				165	5825.0	16.21			Not Required	8.5	No
		802.11n (HT20)	6.5 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11n (HT40)	13.5 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ac (VHT20)	6.5 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11ac (VHT40)	13.5 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ac (VHT80)	29.3 Mbps	Not Required			13.0	No	Not Required	8.5	No
		802.11ax (HE20)	7.3 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11ax (HE40)	14.6 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ax (HE80)	36 Mbps	Not Required			13.0	No	Not Required	8.5	No

Note(s):

1. For “Not required”, SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.
2. When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.
3. When the specified maximum output power is the same for both UNII band I and UNII band 2A, begin SAR measurement in UNII band 2A; and if the highest *reported* SAR for UNII band 2A is
   - ≤ 1.2 W/kg, SAR is not required for UNII band I
   - > 1.2 W/kg, both bands should be tested independently for SAR.

WLAN MIMO Ant.2 output power Results

Antenna	Band (GHz)	Mode	Data Rate	Ch #	Freq. (MHz)	WLAN mode power					
						Max. Average Power			Reduced Average Power		
						Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)	Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
WiFi 5GHz MIMO Ant.2	5.3 (UNII 2A)	802.11a	6 Mbps	52	5260.0	14.00	15.0	Yes	Not Required	6.5	No
				56	5280.0	14.09					
				60	5300.0	13.65					
				64	5320.0	13.64					
		802.11n (HT20)	6.5 Mbps	Not Required			14.0	No	Not Required	6.5	No
		802.11n (HT40)	13.5 Mbps	Not Required			12.0	No	Not Required	6.5	No
		802.11ac (VHT20)	6.5 Mbps	Not Required			14.0	No	Not Required	6.5	No
		802.11ac (VHT40)	13.5 Mbps	Not Required			12.0	No	Not Required	6.5	No
		802.11ac (VHT80)	29.3 Mbps	58	5290.0	Not Required	8.0	No	5.41	6.5	Yes
		802.11ax (HE20)	7.3 Mbps	Not Required			14.0	No	Not Required	6.5	No
		802.11ax (HE40)	14.6 Mbps	Not Required			12.0	No	Not Required	6.5	No
		802.11ax (HE80)	36 Mbps	Not Required			8.0	No	Not Required	6.5	No
	5.5 (U-NII 2C)	802.11a	6 Mbps	100	5500.0	16.09	17.0	Yes	Not Required	8.5	No
				120	5600.0	15.80					
				124	5620.0	15.55					
				140	5700.0	15.56			9.38	10.0	Yes
				144	5720.0	15.87			Not Required	8.5	No
		802.11n (HT20)	6.5 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11n (HT40)	13.5 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ac (VHT20)	6.5 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11ac (VHT40)	13.5 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ac (VHT80)	29.3 Mbps	Not Required			13.0	No	Not Required	8.5	No
		802.11ax (HE20)	7.3 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11ax (HE40)	14.6 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ax (HE80)	36 Mbps	Not Required			13.0	No	Not Required	8.5	No
	5.8 (U-NII 3)	802.11a	6 Mbps	149	5745.0	15.47	17.0	Yes	Not Required	8.5	No
				157	5785.0	15.60			9.20	9.5	Yes
				165	5825.0	15.59			Not Required	8.5	No
		802.11n (HT20)	6.5 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11n (HT40)	13.5 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ac (VHT20)	6.5 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11ac (VHT40)	13.5 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ac (VHT80)	29.3 Mbps	Not Required			13.0	No	Not Required	8.5	No
		802.11ax (HE20)	7.3 Mbps	Not Required			16.0	No	Not Required	8.5	No
		802.11ax (HE40)	14.6 Mbps	Not Required			14.0	No	Not Required	8.5	No
		802.11ax (HE80)	36 Mbps	Not Required			13.0	No	Not Required	8.5	No

Note(s):

1. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.
2. When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.
3. When the specified maximum output power is the same for both UNII band I and UNII band 2A, begin SAR measurement in UNII band 2A; and if the highest *reported* SAR for UNII band 2A is
   - ≤ 1.2 W/kg, SAR is not required for UNII band I
   - > 1.2 W/kg, both bands should be tested independently for SAR.

Duty Factor Measured Results

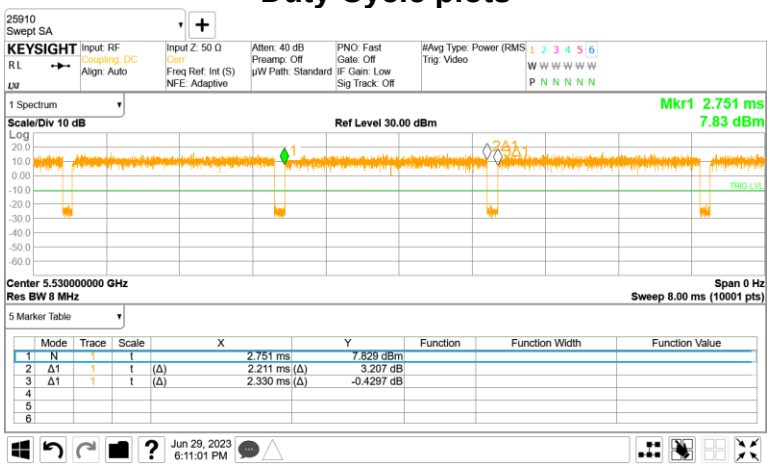
Mode	Ant Type	T on (ms)	Period (ms)	Duty Cycle	Crest Factor (1/duty cycle)
802.11a	Ant 2	3.127	3.227	96.9%	1.03

Duty Cycle plots

Duty Factor Measured Results

Mode	Ant Type	T on (ms)	Period (ms)	Duty Cycle	Crest Factor (1/duty cycle)
802.11ac	Ant 2	2.211	2.330	94.9%	1.05

Duty Cycle plots



Duty Factor Measured Results

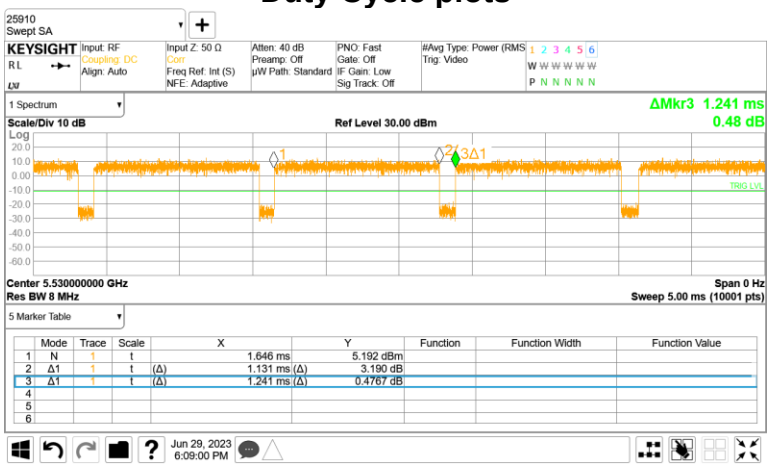
Mode	Ant Type	T on (ms)	Period (ms)	Duty Cycle	Crest Factor (1/duty cycle)
802.11a	MIMO	3.126	3.218	97.1%	1.03

Duty Cycle plots

Duty Factor Measured Results

Mode	Ant Type	T on (ms)	Period (ms)	Duty Cycle	Crest Factor (1/duty cycle)
802.11ac	MIMO	1.131	1.241	91.1%	1.10

Duty Cycle plots



9.6. Bluetooth

Bluetooth output power Results

Band (GHz)	Antenna	Mode	Ch #	Freq. (MHz)	Maximum Average Power (dBm)		Reduced Average Power (dBm)	
					Meas Pwr	Tune-up Limit	Meas Pwr	Tune-up Limit
2.4	BT Ant.1	Bluetooth(1Mbps)	0	2402	13.81	15.0	9.19	10.0
			39	2441	13.74		8.67	
			78	2480	13.85		9.08	
		Bluetooth(EDR)	0	2402	10.24	11.0	10.24	11.0
			39	2441	10.45		10.45	
			78	2480	10.38		10.38	
		Bluetooth(LE) (1M/2M)	0	2402	13.43	14.0	9.26	10.0
			19	2440	12.71		8.56	
			39	2480	10.00	11.0	5.63	6.0
		Bluetooth(LE) (125/500kbps)	0	2402	13.39	14.0	9.25	10.0
			19	2440	12.69		8.55	
			39	2480	9.96	11.0	5.62	6.0

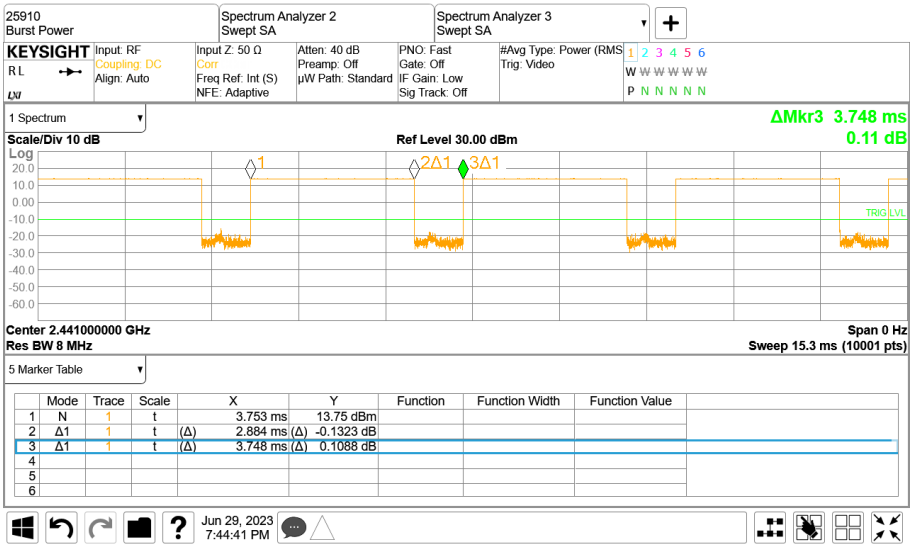
Note(s):

BT SAR are tested at the highest output power of all modes. So Max power SAR is tested using BDR mode and Reduce power SAR is tested using EDR mode.

Duty Factor Measured Results

Mode	Type	T on (ms)	Period (ms)	Duty Cycle	Crest Factor (1/duty cycle)
BDR	DH5	2.884	3.748	76.9%	1.30

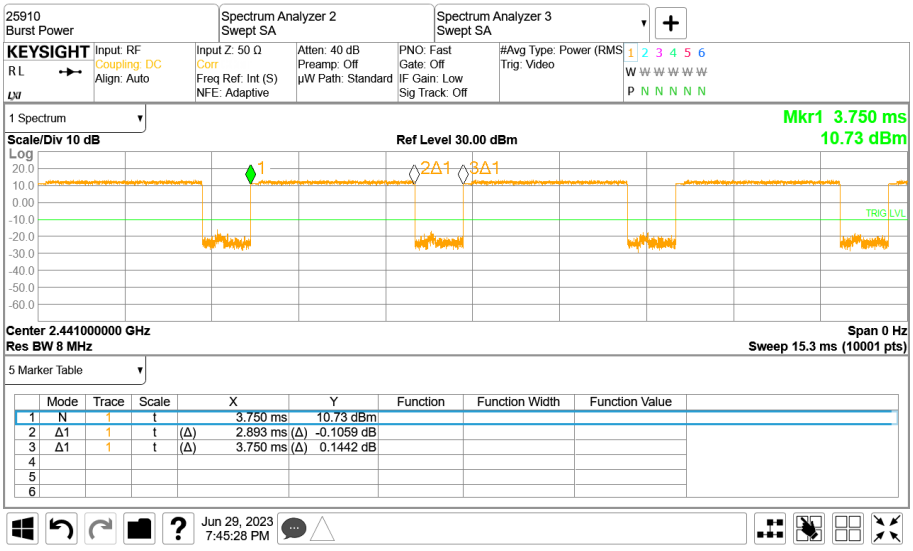
Duty Cycle plots



Duty Factor Measured Results

Mode	Type	T on (ms)	Period (ms)	Duty Cycle	Crest Factor (1/duty cycle)
EDR	DH5	2.893	3.750	77.1%	1.30

Duty Cycle plots



10. Measured and Reported (Scaled) SAR Results

SAR Test Reduction criteria are as follows:

- Reported SAR(W/kg) for WWAN= Measured SAR *Tune-up Scaling Factor
- Reported SAR(W/kg) for Wi-Fi and Bluetooth= Measured SAR * Tune-up scaling factor * Duty Cycle scaling factor
- Duty Cycle scaling factor = 1 / Duty cycle (%)

KDB 447498 D01 General RF Exposure Guidance:

Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

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

KDB 648474 D04 Handset SAR:

With headset attached, when the reported SAR for body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

KDB 648474 D04 Handset SAR (Phablet Only):

For smart phones, with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm.
When hotspot mode does not apply, 10-g extremity SAR is required for all surfaces and edges with an antenna located at ≤ 25mm
From that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg;
However, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, Including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

Additional 1-g SAR testing at 5 mm is not required when hotspot mode 10-g extremity SAR is not required for the surfaces and edges; since all 1-g reported SAR < 1.2 W/kg.

KDB 941225 D01 SAR test for 3G devices:

When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

KDB 941225 D05 SAR for LTE Devices:

SAR test reduction is applied using the following criteria:

- Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel.
- When the reported SAR is > 0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel.
- Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are > 0.8 W/kg. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg.
- Testing for 16-QAM modulation is not required because the reported SAR for QPSK is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of QPSK.
- Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.
- For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. 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; therefore, the requirement for H, M and L channels may not fully apply.

KDB 248227 D01 SAR meas for 802.11:

SAR test reduction for 802.11 Wi-Fi transmission mode configurations are considered separately for DSSS and OFDM. An initial test position is determined to reduce the number of tests required for certain exposure configurations with multiple test positions. An initial test configuration is determined for each frequency band and aggregated band according to maximum output power, channel bandwidth, wireless mode configurations and other operating parameters to streamline the measurement requirements. For 2.4 GHz DSSS, either the initial test position or DSSS procedure is applied to reduce the number of SAR tests; these are mutually exclusive. For OFDM, an initial test position is only applicable to next to the ear, UMPC mini-tablet and hotspot mode configurations, which is tested using the initial test configuration to facilitate test reduction. For other exposure conditions with a fixed test position, SAR test reduction is determined using only the initial test configuration.

The multiple test positions require SAR measurements in head, hotspot mode or UMPC mini-tablet configurations may be reduced according to the highest reported SAR determined using the *initial test position(s)* by applying the DSSS or OFDM SAR measurement procedures in the required wireless mode test configuration(s). The *initial test position(s)* is measured using the highest measured maximum output power channel in the required wireless mode test configuration(s). When the *reported* SAR for the *initial test position* is:

- ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR procedures.
- > 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the *initial test position* to measure the subsequent next closet/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel, until the *reported* SAR is ≤ 0.8 W/kg or all required test positions are tested.
  - For subsequent test positions with equivalent test separation distance or when exposure is dominated by coupling conditions, the position for maximum coupling condition should be tested.
  - When it is unclear, all equivalent conditions must be tested.
- For all positions/configurations tested using the *initial test position* and subsequent test positions, when the *reported* SAR is > 0.8 W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the *reported* SAR is ≤ 1.2 W/kg or all required test channels are considered.
  - The additional power measurements required for this step should be limited to those necessary for identifying subsequent highest output power channels to apply the test reduction.
- When the specified maximum output power is the same for both UNII 1 and UNII 2A, begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the reported SAR for UNII 2A is ≤ 1.2 W/kg, SAR is not required for UNII 1; otherwise treat the remaining bands separately and test them independently for SAR.
- When the specified maximum output power is different between UNII 1 and UNII 2A, begin SAR with the band that has the higher specified maximum output. If the highest reported SAR for the band with the highest specified power is ≤ 1.2 W/kg, testing for the band with the lower specified output power is not required; otherwise test the remaining bands independently for SAR.

To determine the *initial test position*, Area Scans were performed to determine the position with the *Maximum Value of SAR (measured)*. The position that produced the highest *Maximum Value of SAR* is considered the worst case position; thus used as the *initial test position*.

10.1. WCDMA Band II

Antenna	RF Exposure Conditions	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	Rel 99 RMC	DSI = 0	19	Rear	9400	1880.0	24.50	23.42	0.535	0.686	
				22	Top	9400	1880.0	24.50	23.42	0.564	0.723	
				19	R/Left	9400	1880.0	24.50	23.42	0.048	0.062	
				19	R/Right	9400	1880.0	24.50	23.42	0.044	0.056	
		Rel 99 RMC	DSI = 1	0	Rear	9262	1852.4	14.50	13.24	0.498	0.666	
						9400	1880.0	14.50	13.44	0.639	0.816	
						9538	1907.6	14.50	13.49	0.499	0.630	
					Top	9262	1852.4	14.50	13.24	0.642	0.858	
						9400	1880.0	14.50	13.44	0.688	0.878	1
						9538	1907.6	14.50	13.49	0.622	0.785	
					R/Left	9400	1880.0	14.50	13.44	0.066	0.084	
					R/Right	9400	1880.0	14.50	13.44	0.026	0.034	

10.2. WCDMA Band IV

Antenna	RF Exposure Conditions	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	Rel 99 RMC	DSI = 0	19	Rear	1413	1732.6	25.00	23.76	0.402	0.535	
				22	Top	1413	1732.6	25.00	23.76	0.559	0.744	2
				19	R/Left	1413	1732.6	25.00	23.76	0.055	0.073	
				19	R/Right	1413	1732.6	25.00	23.76	0.062	0.082	
		Rel 99 RMC	DSI = 1	0	Rear	1413	1732.6	13.50	12.92	0.608	0.695	
					Top	1413	1732.6	13.50	12.92	0.459	0.525	
					R/Left	1413	1732.6	13.50	12.92	0.049	0.056	
					R/Right	1413	1732.6	13.50	12.92	0.182	0.208	

10.3. WCDMA Band V

Antenna	RF Exposure Conditions	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.
								Tune-up limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	Rel 99 RMC	DSI = 0	19	Rear	4132	826.4	24.50	24.26	0.762	0.805	
						4183	836.6	24.50	23.95	0.787	0.893	
						4233	846.6	24.50	24.06	0.879	0.973	
				22	Top	4183	836.6	24.50	23.95	0.629	0.714	
				19	R/Left	4183	836.6	24.50	23.95	0.058	0.065	
				19	R/Right	4183	836.6	24.50	23.95	0.034	0.039	
		Rel 99 RMC	DSI = 1	0	Rear	4132	826.4	17.50	16.61	0.637	0.782	
						4183	836.6	17.50	16.32	0.674	0.884	
						4233	846.6	17.50	16.33	0.648	0.848	
					Top	4132	826.4	17.50	16.61	0.774	0.950	
						4183	836.6	17.50	16.32	0.789	1.035	3
						4233	846.6	17.50	16.33	0.779	1.020	
					R/Left	4183	836.6	17.50	16.32	0.037	0.048	
					R/Right	4183	836.6	17.50	16.32	0.024	0.031	

10.4. LTE Band 7 (Main.1) (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	QPSK	DSI = 0	19	Rear	21350	2560.0	1	0	25.00	24.71	0.469	0.501	
								50	0	24.00	23.72	0.356	0.380	
				22	Top	21350	2560.0	1	0	25.00	24.71	0.409	0.437	
								50	0	24.00	23.72	0.321	0.342	
				19	R/Left	21350	2560.0	1	0	25.00	24.71	0.067	0.072	
								50	0	24.00	23.72	0.052	0.056	
				19	R/Right	21350	2560.0	1	0	25.00	24.71	0.005	0.006	
								50	0	24.00	23.72	0.004	0.004	
		QPSK	DSI = 1	0	Rear	21350	2560.0	1	0	13.00	12.44	0.556	0.633	
								50	0	13.00	12.38	0.557	0.642	4
					Top	21350	2560.0	1	0	13.00	12.44	0.469	0.534	
								50	0	13.00	12.38	0.456	0.526	
					R/Left	21350	2560.0	1	0	13.00	12.44	0.045	0.051	
								50	0	13.00	12.38	0.045	0.052	
					R/Right	21350	2560.0	1	0	13.00	12.44	<0.001	<0.001	
								50	0	13.00	12.38	<0.001	<0.001	

10.5. LTE Band 7 (Sub.2) (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
Sub 2 Ant.	Standalone	QPSK	DSI = 0	19	Rear	20850	2510.0	1	0	24.00	23.50	0.198	0.222	
								50	0	23.00	22.52	0.157	0.175	
				0	R/Left	20850	2510.0	1	0	24.00	23.50	0.259	0.291	
								50	0	23.00	22.52	0.189	0.211	
				19	Bottom	20850	2510.0	1	0	24.00	23.50	0.358	0.402	
								50	0	23.00	22.52	0.289	0.323	
				0	R/Right	20850	2510.0	1	0	24.00	23.50	0.137	0.154	
								50	0	23.00	22.52	0.104	0.116	
		QPSK	DSI = 1	0	Rear	20850	2510.0	1	0	10.50	10.00	0.545	0.612	
								50	0	10.50	9.99	0.549	0.617	5
					Bottom	20850	2510.0	1	0	10.50	10.00	0.412	0.462	
								50	0	10.50	9.99	0.408	0.459	

10.6. LTE Band 12 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	QPSK	DSI = 0	19	Rear	23095	707.5	1	0	25.00	23.56	0.267	0.372	
								25	0	24.00	22.55	0.215	0.300	
				22	Top	23095	707.5	1	0	25.00	23.56	0.253	0.352	
								25	0	24.00	22.55	0.199	0.278	
				19	R/Left	23095	707.5	1	0	25.00	23.56	0.021	0.029	
								25	0	24.00	22.55	0.016	0.022	
				19	R/Right	23095	707.5	1	0	25.00	23.56	0.020	0.028	
								25	0	24.00	22.55	0.015	0.021	
		QPSK	DSI = 1	0	Rear	23095	707.5	1	0	16.50	16.15	0.479	0.519	
								25	0	16.50	15.95	0.481	0.546	
					Top	23095	707.5	1	0	16.50	16.15	0.499	0.541	
								25	0	16.50	15.95	0.490	0.556	6
					R/Left	23095	707.5	1	0	16.50	16.15	0.066	0.072	
								25	0	16.50	15.95	0.065	0.074	
					R/Right	23095	707.5	1	0	16.50	16.15	0.035	0.038	
								25	0	16.50	15.95	0.034	0.039	

10.7. LTE Band 13 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	QPSK	DSI = 0	19	Rear	23230	782.0	1	0	25.00	23.52	0.545	0.766	
								25	0	24.00	22.43	0.437	0.627	
				22	Top	23230	782.0	1	0	25.00	23.52	0.549	0.772	7
								25	0	24.00	22.43	0.446	0.640	
				19	R/Left	23230	782.0	1	0	25.00	23.52	0.040	0.056	
								25	0	24.00	22.43	0.031	0.045	
				19	R/Right	23230	782.0	1	0	25.00	23.52	0.030	0.042	
								25	0	24.00	22.43	0.021	0.030	
		QPSK	DSI = 1	0	Rear	23230	782.0	1	0	16.50	15.26	0.532	0.708	
								25	0	16.50	15.24	0.508	0.679	
					Top	23230	782.0	1	0	16.50	15.26	0.515	0.685	
								25	0	16.50	15.24	0.509	0.680	
					R/Left	23230	782.0	1	0	16.50	15.26	0.087	0.116	
								25	0	16.50	15.24	0.085	0.114	
					R/Right	23230	782.0	1	0	16.50	15.26	0.036	0.048	
								25	0	16.50	15.24	0.035	0.047	

10.8. LTE Band 14 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	QPSK	DSI = 0	19	Rear	23330	793.0	1	0	25.00	24.15	0.606	0.737	8
								25	0	24.00	23.15	0.483	0.587	
				22	Top	23330	793.0	1	0	25.00	24.15	0.552	0.671	
								25	0	24.00	23.15	0.437	0.531	
				19	R/Left	23330	793.0	1	0	25.00	24.15	0.049	0.060	
								25	0	24.00	23.15	0.036	0.044	
				19	R/Right	23330	793.0	1	0	25.00	24.15	0.031	0.038	
								25	0	24.00	23.15	0.030	0.036	
		QPSK	DSI = 1	0	Rear	23330	793.0	1	0	16.50	15.16	0.449	0.611	
								25	0	16.50	15.13	0.443	0.607	
					Top	23330	793.0	1	0	16.50	15.16	0.418	0.569	
								25	0	16.50	15.13	0.415	0.569	
					R/Left	23330	793.0	1	0	16.50	15.16	0.096	0.131	
								25	0	16.50	15.13	0.094	0.129	
					R/Right	23330	793.0	1	0	16.50	15.16	0.039	0.053	
								25	0	16.50	15.13	0.041	0.056	

10.9. LTE Band 25 (Main.1) (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	QPSK	DSI = 0	19	Rear	26140	1860.0	1	99	25.00	24.05	0.501	0.624	
								50	50	24.00	23.20	0.389	0.468	
				22	Top	26140	1860.0	1	99	25.00	24.05	0.571	0.711	
								50	50	24.00	23.20	0.495	0.595	
				19	R/Left	26140	1860.0	1	99	25.00	24.05	0.050	0.062	
								50	50	24.00	23.20	0.052	0.063	
				19	R/Right	26140	1860.0	1	99	25.00	24.05	0.029	0.036	
								50	50	24.00	23.20	0.029	0.035	
		QPSK	DSI = 1	0	Rear	26140	1860.0	1	99	13.50	12.65	0.496	0.603	
								50	50	13.50	12.63	0.502	0.613	
					Top	26140	1860.0	1	99	13.50	12.65	0.611	0.743	
								50	50	13.50	12.63	0.630	0.770	9
					R/Left	26140	1860.0	1	99	13.50	12.65	0.056	0.068	
								50	50	13.50	12.63	0.052	0.063	
					R/Right	26140	1860.0	1	99	13.50	12.65	0.068	0.082	
								50	50	13.50	12.63	0.066	0.081	

10.10. LTE Band 25 (Sub.2) (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
Sub 2 Ant.	Standalone	QPSK	DSI = 0	19	Rear	26365	1882.5	1	0	24.00	23.71	0.141	0.151	
								50	0	23.00	22.78	0.138	0.145	
				0	R/Left	26365	1882.5	1	0	24.00	23.71	0.405	0.433	
								50	0	23.00	22.78	0.400	0.421	
				19	Bottom	26365	1882.5	1	0	24.00	23.71	0.183	0.196	
								50	0	23.00	22.78	0.183	0.193	
				0	R/Right	26365	1882.5	1	0	24.00	23.71	0.268	0.287	
								50	0	23.00	22.78	0.302	0.318	
		QPSK	DSI = 1	0	Rear	26365	1882.5	1	0	11.00	10.18	0.622	0.751	
								50	0	11.00	10.09	0.633	0.781	10
					Bottom	26365	1882.5	1	0	11.00	10.18	0.489	0.591	
								50	0	11.00	10.09	0.475	0.586	

10.11. LTE Band 26 (15MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	QPSK	DSI = 0	19	Rear	26865	831.5	1	0	25.00	24.17	0.572	0.692	
								36	0	24.00	23.30	0.463	0.544	
				22	Top	26865	831.5	1	0	25.00	24.17	0.626	0.758	11
								36	0	24.00	23.30	0.510	0.599	
				19	R/Left	26865	831.5	1	0	25.00	24.17	0.060	0.072	
								36	0	24.00	23.30	0.044	0.051	
				19	R/Right	26865	831.5	1	0	25.00	24.17	0.028	0.034	
								36	0	24.00	23.30	0.019	0.022	
		QPSK	DSI = 1	0	Rear	26865	831.5	1	0	15.00	14.20	0.388	0.466	
								36	0	15.00	14.18	0.391	0.472	
					Top	26865	831.5	1	0	15.00	14.20	0.452	0.543	
								36	0	15.00	14.18	0.444	0.536	
					R/Left	26865	831.5	1	0	15.00	14.20	0.039	0.047	
								36	0	15.00	14.18	0.037	0.045	
					R/Right	26865	831.5	1	0	15.00	14.20	0.009	0.011	
								36	0	15.00	14.18	0.010	0.012	

10.12. LTE Band 30 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	QPSK	DSI = 0	19	Rear	27710	2310.0	1	25	23.00	22.62	0.223	0.243	
								25	25	23.00	22.85	0.198	0.205	
				22	Top	27710	2310.0	1	25	23.00	22.62	0.283	0.309	
								25	25	23.00	22.85	0.212	0.219	
				19	R/Left	27710	2310.0	1	25	23.00	22.62	0.026	0.028	
								25	25	23.00	22.85	0.022	0.023	
				19	R/Right	27710	2310.0	1	25	23.00	22.62	0.021	0.023	
								25	25	23.00	22.85	0.020	0.021	
		QPSK	DSI = 1	0	Rear	27710	2310.0	1	25	13.50	12.32	0.368	0.483	
								25	25	13.50	12.50	0.376	0.473	
					Top	27710	2310.0	1	25	13.50	12.32	0.489	0.642	12
								25	25	13.50	12.50	0.495	0.623	
					R/Left	27710	2310.0	1	25	13.50	12.32	0.030	0.040	
								25	25	13.50	12.50	0.031	0.039	
					R/Right	27710	2310.0	1	25	13.50	12.32	<0.001	<0.001	
								25	25	13.50	12.50	0.002	0.003	

10.13. LTE Band 41 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	QPSK	DSI = 0	19	Rear	40620	2593.0	1	0	25.00	24.72	0.218	0.233	
								50	0	24.00	23.66	0.160	0.173	
				22	Top	40620	2593.0	1	0	25.00	24.72	0.212	0.226	
								50	0	24.00	23.66	0.151	0.163	
				19	R/Left	40620	2593.0	1	0	25.00	24.72	0.050	0.053	
								50	0	24.00	23.66	0.040	0.043	
				19	R/Right	40620	2593.0	1	0	25.00	24.72	0.005	0.006	
								50	0	24.00	23.66	<0.001	<0.001	
		QPSK	DSI = 1	0	Rear	40620	2593.0	1	0	15.00	14.25	0.453	0.538	13
								50	0	15.00	14.28	0.440	0.519	
					Top	40620	2593.0	1	0	15.00	14.25	0.352	0.418	
								50	0	15.00	14.28	0.345	0.407	
					R/Left	40620	2593.0	1	0	15.00	14.25	0.023	0.028	
								50	0	15.00	14.28	0.025	0.030	
					R/Right	40620	2593.0	1	0	15.00	14.25	<0.001	<0.001	
								50	0	15.00	14.28	<0.001	<0.001	

LTE Band 41 Power Class 2

Antenna	RF Exposure Conditions	Mode	Dist. (mm)	DSI Status	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	QPSK	0	DSI = 1	Rear	40620	2593.0	1	0	15.00	14.63	0.311	0.339	

Note(s):

From May 2017 TCB workshop, SAR tested were performed using Power Class 3. SAR test for Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination.

Additional SAR testing for Power Class 2 is not required when:

- The reported SAR vs. output power can be linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 or 3.5 W/kg (1-g or 10-g respectively)

Reported SAR vs. Output power linearly scaled

Antenna	RF Exposure Conditions	Power Class 2				Power Class 3				PC2 linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)
		Duty Cycle (%)	Tune-up Power (dBm)	Fram Avg. Power (dBm)	Reported SAR (W/kg)	Duty Cycle	Tune-up Power (dBm)	Fram Avg. Power (dBm)	Reported SAR (W/kg)		
Main 1 Ant.	Standalone	43.3	15.0	13.7	0.339	63.3	15.0	20.0	0.453	0.310	9.4

Note(s):

SAR test for Power Class 2 is not required base on the reported SAR < 1.4 or 3.5 W/kg (1-g or 10-g respectively) and reported SAR vs. output power linearly scaled < 10%.

10.14. LTE Band 66 (Main.1) (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	QPSK	DSI = 0	19	Rear	132322	1745.0	1	0	24.50	23.31	0.444	0.584	
								50	24	23.50	22.51	0.371	0.466	
				22	Top	132322	1745.0	1	0	24.50	23.31	0.539	0.709	14
								50	24	23.50	22.51	0.469	0.589	
				19	R/Left	132322	1745.0	1	0	24.50	23.31	0.066	0.086	
								50	24	23.50	22.51	0.073	0.092	
				19	R/Right	132322	1745.0	1	0	24.50	23.31	0.031	0.040	
								50	24	23.50	22.51	0.038	0.048	
		QPSK	DSI = 1	0	Rear	132322	1745.0	1	0	13.00	12.35	0.505	0.587	
								50	24	13.00	12.21	0.549	0.659	
					Top	132322	1745.0	1	0	13.00	12.35	0.511	0.594	
								50	24	13.00	12.21	0.564	0.677	
					R/Left	132322	1745.0	1	0	13.00	12.35	0.053	0.061	
								50	24	13.00	12.21	0.057	0.068	
					R/Right	132322	1745.0	1	0	13.00	12.35	0.173	0.201	
								50	24	13.00	12.21	0.186	0.223	

10.15. LTE Band 66 (Sub.2) (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
Sub 2 Ant.	Standalone	QPSK	DSI = 0	19	Rear	132572	1770.0	1	0	24.00	23.59	0.139	0.153	
								50	0	23.00	22.64	0.144	0.156	
				0	R/Left	132572	1770.0	1	0	24.00	23.59	0.334	0.367	
								50	0	23.00	22.64	0.337	0.366	
				19	Bottom	132572	1770.0	1	0	24.00	23.59	0.196	0.215	
								50	0	23.00	22.64	0.198	0.215	
				0	R/Right	132572	1770.0	1	0	24.00	23.59	0.248	0.273	
								50	0	23.00	22.64	0.264	0.287	
		QPSK	DSI = 1	0	Rear	132572	1770.0	1	0	11.00	10.30	0.631	0.741	
								50	0	11.00	10.33	0.641	0.748	15
					Bottom	132572	1770.0	1	0	11.00	10.30	0.388	0.456	
								50	0	11.00	10.33	0.394	0.460	

10.16. LTE Band 71 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	QPSK	DSI = 0	19	Rear	133297	680.5	1	0	25.00	24.15	0.156	0.190	
								50	0	24.00	23.10	0.117	0.144	
				22	Top	133297	680.5	1	0	25.00	24.15	0.151	0.184	
								50	0	24.00	23.10	0.113	0.139	
				19	R/Left	133297	680.5	1	0	25.00	24.15	0.024	0.030	
								50	0	24.00	23.10	0.017	0.021	
				19	R/Right	133297	680.5	1	0	25.00	24.15	0.037	0.045	
								50	0	24.00	23.10	0.024	0.030	
		QPSK	DSI = 1	0	Rear	133297	680.5	1	0	20.00	19.74	0.499	0.530	16
								50	0	20.00	19.65	0.476	0.516	
					Top	133297	680.5	1	0	20.00	19.74	0.482	0.512	
								50	0	20.00	19.65	0.476	0.516	
					R/Left	133297	680.5	1	0	20.00	19.74	0.047	0.050	
								50	0	20.00	19.65	0.044	0.048	
					R/Right	133297	680.5	1	0	20.00	19.74	0.024	0.025	
								50	0	20.00	19.65	0.023	0.025	

10.17. NR Band n5 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Modulation	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Note.	Plot No.
											Tune-up limit	Meas.	Meas.	Scaled		
Main 1 Ant.	Standalone	DFT-s-OFDM	QPSK	DSI = 0	19	Rear	167300	836.5	1	1	25.00	23.60	0.528	0.729		
									50	28	25.00	23.51	0.356	0.502		
					22	Top	167300	836.5	1	1	25.00	23.60	0.478	0.660		
									50	28	25.00	23.51	0.526	0.741		17
					19	R/Left	167300	836.5	1	1	25.00	23.60	0.052	0.072		
									50	28	25.00	23.51	0.049	0.070		
					19	R/Right	167300	836.5	1	1	25.00	23.60	0.045	0.061		
									50	28	25.00	23.51	0.048	0.067		
		DFT-s-OFDM	QPSK	DSI = 1	0	Rear	167300	836.5	1	1	15.00	14.48	0.469	0.529		
									50	28	15.00	14.41	0.464	0.532		
						Top	167300	836.5	1	1	15.00	14.48	0.394	0.444		
									50	28	15.00	14.41	0.426	0.488		
						R/Left	167300	836.5	1	1	15.00	14.48	0.034	0.039		
									50	28	15.00	14.41	0.035	0.040		
						R/Right	167300	836.5	1	1	15.00	14.48	0.016	0.018		
									50	28	15.00	14.41	0.018	0.021		
		CP-OFDM	QPSK	DSI = 1	0	Rear	167300	836.5	1	1	15.00	14.45	0.412	0.468	1	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.

10.18. NR Band n12 (15MHz Bandwidth)

Antenna	RF Exposure Conditions	Modulation	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Note.	Plot No.
											Tune-up limit	Meas.	Meas.	Scaled		
Main 1 Ant.	Standalone	DFT-s-OFDM	QPSK	DSI = 0	19	Rear	141500	707.5	1	77	25.00	23.67	0.292	0.397		
									36	22	24.00	23.60	0.217	0.238		
					22	Top	141500	707.5	1	77	25.00	23.67	0.205	0.278		
									36	22	24.00	23.60	0.212	0.232		
					19	R/Left	141500	707.5	1	77	25.00	23.67	0.025	0.033		
									36	22	24.00	23.60	0.018	0.020		
					19	R/Right	141500	707.5	1	77	25.00	23.67	0.022	0.029		
									36	22	24.00	23.60	0.017	0.019		
		DFT-s-OFDM	QPSK	DSI = 1	0	Rear	141500	707.5	1	77	16.50	16.29	0.445	0.467		
									36	22	16.50	16.27	0.412	0.434		
						Top	141500	707.5	1	77	16.50	16.29	0.455	0.478		18
									36	22	16.50	16.27	0.422	0.445		
						R/Left	141500	707.5	1	77	16.50	16.29	0.026	0.028		
									36	22	16.50	16.27	0.025	0.026		
						R/Right	141500	707.5	1	77	16.50	16.29	0.018	0.019		
									36	22	16.50	16.27	0.017	0.018		
		CP-OFDM	QPSK	DSI = 1	0	Top	141500	707.5	1	1	16.50	16.17	0.338	0.365	1	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.

10.19. NR Band n25 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Modulation	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Note.	Plot No.
											Tune-up limit	Meas.	Meas.	Scaled		
Main 1 Ant.	Standalone	DFT-s-OFDM	QPSK	DSI = 0	19	Rear	376500	1882.5	1	53	25.00	24.04	0.438	0.546		
									50	28	25.00	24.01	0.476	0.598		
					22	Top	376500	1882.5	1	53	25.00	24.04	0.500	0.624		
									50	28	25.00	24.01	0.554	0.696		
					19	R/Left	376500	1882.5	1	53	25.00	24.04	0.066	0.082		
									50	28	25.00	24.01	0.063	0.079		
					0	R/Right	376500	1882.5	1	53	25.00	24.04	<0.001	<0.001		
									50	28	25.00	24.01	<0.001	<0.001		
		DFT-s-OFDM	QPSK	DSI = 1	0	Rear	376500	1882.5	1	53	13.50	12.89	0.520	0.598		
									50	28	13.50	12.77	0.512	0.606		
						Top	376500	1882.5	1	53	13.50	12.89	0.587	0.676		
									50	28	13.50	12.77	0.606	0.717		19
						R/Left	376500	1882.5	1	53	13.50	12.89	0.057	0.066		
									50	28	13.50	12.77	0.055	0.065		
						R/Right	376500	1882.5	1	53	13.50	12.89	0.037	0.042		
									50	28	13.50	12.77	0.037	0.043		
		CP-OFDM	QPSK	DSI = 1	0	Top	376500	1882.5	1	1	13.50	12.75	0.505	0.600	1	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.

10.20. NR Band n30 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Modulation	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Note.	Plot No.
											Tune-up limit	Meas.	Meas.	Scaled		
Main 1 Ant.	Standalone	DFT-s-OFDM	QPSK	DSI = 0	19	Rear	462000	2310.0	1	50	23.50	22.36	0.166	0.216		
									25	14	22.50	22.20	0.210	0.225		
					22	Top	462000	2310.0	1	50	23.50	22.36	0.196	0.255		
									25	14	22.50	22.20	0.232	0.249		
					19	R/Left	462000	2310.0	1	50	23.50	22.36	0.020	0.027		
									25	14	22.50	22.20	0.024	0.026		
					0	R/Right	462000	2310.0	1	50	23.50	22.36	0.016	0.021		
									25	14	22.50	22.20	0.018	0.019		
		DFT-s-OFDM	QPSK	DSI = 1	0	Rear	462000	2310.0	1	50	13.50	12.98	0.412	0.464		
									25	14	13.50	13.01	0.410	0.459		
						Top	462000	2310.0	1	50	13.50	12.98	0.616	0.694		20
									25	14	13.50	13.01	0.582	0.652		
						R/Left	462000	2310.0	1	50	13.50	12.98	0.043	0.048		
									25	14	13.50	13.01	0.042	0.047		
						R/Right	462000	2310.0	1	50	13.50	12.98	0.007	0.007		
									25	14	13.50	13.01	0.006	0.006		
		CP-OFDM	QPSK	DSI = 1	0	Top	462000	2310.0	1	50	13.50	13.03	0.573	0.638	1	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.

10.21. NR Band n41 (Main.1 SRS0) (100MHz Bandwidth)

Antenna	RF Exposure Conditions	Modulation	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Note.	Plot No.
											Tune-up limit	Meas.	Meas.	Scaled		
Main 1 Ant.	Standalone	DFT-s-OFDM	QPSK	DSI = 0	19	Rear	518598	2593.0	1	137	21.50	20.98	0.150	0.169		
									135	69	21.50	20.94	0.112	0.127		
					22	Top	518598	2593.0	1	137	21.50	20.98	0.148	0.167		
									135	69	21.50	20.94	0.115	0.131		
					19	R/Left	518598	2593.0	1	137	21.50	20.98	0.031	0.035		
									135	69	21.50	20.94	0.023	0.027		
					19	R/Right	518598	2593.0	1	137	21.50	20.98	0.012	0.013		
									135	69	21.50	20.94	0.008	0.009		
		DFT-s-OFDM	QPSK	DSI = 1	0	Rear	518598	2593.0	1	137	14.00	13.78	0.730	0.768		
									135	69	14.00	13.82	0.778	0.811		21
						Top	518598	2593.0	1	137	14.00	13.78	0.618	0.650		
									135	69	14.00	13.82	0.546	0.569		
						R/Left	518598	2593.0	1	137	14.00	13.78	0.053	0.055		
									135	69	14.00	13.82	0.053	0.055		
						R/Right	518598	2593.0	1	137	14.00	13.78	0.009	0.009		
									135	69	14.00	13.82	0.008	0.009		
		CP-OFDM	QPSK	DSI = 1	0	Rear	518598	2593	1	137	14.00	13.73	0.672	0.715	1	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.
2. NR Band n41 tested using FTM mode.

10.22. NR Band n41 (SRS1/SRS2/SRS3) (100MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas.	Meas.	Scaled	
Sub.2 -SRS1-	Standalone	SRS CW	19	Rear	518598	2593.0	20.00	19.07	0.076	0.095	
			0	R/Left	518598	2593.0	20.00	19.07	0.345	0.427	
			19	Bottom	518598	2593.0	20.00	19.07	0.118	0.146	
			0	R/Right	518598	2593.0	20.00	19.07	0.067	0.083	
	Standalone	SRS CW	0	Rear	518598	2593.0	14.00	13.43	0.594	0.677	
				Bottom	518598	2593.0	14.00	13.43	0.953	1.087	22
Sub.4 -SRS2-	Standalone	SRS CW	19	Rear	518598	2593.0	20.00	19.60	0.028	0.030	
			0	R/Left	518598	2593.0	20.00	19.60	0.011	0.012	
			19	Bottom	518598	2593.0	20.00	19.60	0.039	0.043	
			0	R/Right	518598	2593.0	20.00	19.60	0.257	0.282	
	Standalone	SRS CW	0	Rear	518598	2593.0	14.00	13.10	0.473	0.582	23
				Bottom	518598	2593.0	14.00	13.10	0.137	0.169	
Sub.1 -SRS3-	Standalone	SRS CW	19	Rear	518598	2593.0	17.50	16.78	0.062	0.073	
			0	R/Left	518598	2593.0	17.50	16.78	0.010	0.011	
			19	Bottom	518598	2593.0	17.50	16.78	0.064	0.076	
			19	R/Right	518598	2593.0	17.50	16.78	0.088	0.104	
	Standalone	SRS CW	0	Rear	518598	2593.0	14.00	13.18	0.985	1.190	24
				Bottom	518598	2593.0	14.00	13.18	0.431	0.521	
				R/Right	518598	2593.0	14.00	13.18	0.945	1.141	

Note(s):
1. NR Band n41 (SRS1/SRS2/SRS3) tested using FTM mode.

10.23. NR Band n66 (40MHz Bandwidth)

Antenna	RF Exposure Conditions	Modulation	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Note.	Plot No.
											Tune-up limit	Meas.	Meas.	Scaled		
Main 1 Ant.	Standalone	DFT-s-OFDM	QPSK	DSI = 0	19	Rear	349000	1745.0	1	108	25.00	23.69	0.588	0.795		
									108	54	25.00	23.69	0.591	0.799		
					22	Top	349000	1745.0	1	108	25.00	23.69	0.591	0.799		25
									108	54	25.00	23.69	0.577	0.780		
					19	R/Left	349000	1745.0	1	108	25.00	23.69	0.055	0.074		
									108	54	25.00	23.69	0.053	0.071		
					19	R/Right	349000	1745.0	1	108	25.00	23.69	0.058	0.078		
									108	54	25.00	23.69	0.055	0.074		
		DFT-s-OFDM	QPSK	DSI = 1	0	Rear	349000	1745.0	1	108	13.00	12.25	0.528	0.628		
									108	54	13.00	12.35	0.490	0.569		
					0	Top	349000	1745.0	1	108	13.00	12.25	0.541	0.643		
									108	54	13.00	12.35	0.540	0.627		
					0	R/Left	349000	1745.0	1	108	13.00	12.25	0.050	0.059		
									108	54	13.00	12.35	0.046	0.053		
					0	R/Right	349000	1745.0	1	108	13.00	12.25	0.085	0.101		
									108	54	13.00	12.35	0.088	0.102		
		CP-OFDM	QPSK	DSI = 1	0	Top	349000	1745.0	1	1	13.00	11.76	0.456	0.607	1	

Note(s):
1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.

10.24. NR Band n71 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Modulation	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Note.	Plot No.
											Tune-up limit	Meas.	Meas.	Scaled		
Main 1 Ant.	Standalone	DFT-s-OFDM	QPSK	DSI = 0	19	Rear	136100	680.5	1	53	25.00	23.82	0.216	0.283		
									50	28	24.00	23.74	0.171	0.182		
					22	Top	136100	680.5	1	53	25.00	23.82	0.088	0.115		
									50	28	24.00	23.74	0.088	0.093		
					19	R/Left	136100	680.5	1	53	25.00	23.82	0.014	0.018		
									50	28	24.00	23.74	0.013	0.014		
					19	R/Right	136100	680.5	1	53	25.00	23.82	0.013	0.017		
									50	28	24.00	23.74	0.014	0.015		
		DFT-s-OFDM	QPSK	DSI = 1	0	Rear	136100	680.5	1	53	20.00	19.44	0.438	0.498		
									50	28	20.00	19.45	0.461	0.523		26
					0	Top	136100	680.5	1	53	20.00	19.44	0.366	0.416		
									50	28	20.00	19.45	0.357	0.405		
					0	R/Left	136100	680.5	1	53	20.00	19.44	0.050	0.057		
									50	28	20.00	19.45	0.047	0.053		
					0	R/Right	136100	680.5	1	53	20.00	19.44	0.031	0.035		
									50	28	20.00	19.45	0.032	0.036		
		CP-OFDM	QPSK	DSI = 1	0	Rear	136100	680.5	1	53	20.00	18.86	0.406	0.528	1	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.

10.25. NR Band n77(Main.2 SRS0) (100MHz Bandwidth)

Antenna	RF Exposure Conditions	Modulation	Mode	DSI Status	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Power (dBm)		1-g SAR (W/kg)		Plot No.
											Tune-up limit	Meas.	Meas.	Scaled	
Main 2 Ant.	Standalone	DFT-s-OFDM	QPSK	DSI = 0	19	Rear	662000	3930.0	1	1	22.00	21.61	0.124	0.136	
									135	69	22.00	20.93	0.092	0.118	
					19	R/Left	662000	3930.0	1	1	22.00	21.61	0.286	0.313	
									135	69	22.00	20.93	0.245	0.313	
					19	Bottom	662000	3930.0	1	1	22.00	21.61	0.122	0.133	
									135	69	22.00	20.93	0.106	0.136	
					0	R/Right	662000	3930.0	1	1	22.00	21.61	0.018	0.019	
									135	69	22.00	20.93	0.019	0.024	
		DFT-s-OFDM	QPSK	DSI = 1	0	Rear	662000	3930.0	1	1	10.00	9.58	0.309	0.340	
									135	69	10.00	9.43	0.306	0.349	
						R/Left	633334	3500.0	1	1	10.00	9.59	0.681	0.748	
									135	69	10.00	9.61	0.677	0.741	
							650000	3750.0	1	1	10.00	9.56	0.620	0.686	
									135	69	10.00	9.18	0.657	0.794	27
							662000	3930.0	1	1	10.00	9.58	0.587	0.647	
									135	69	10.00	9.43	0.469	0.535	
						Bottom	662000	3930.0	1	1	10.00	9.58	0.180	0.198	
									135	69	10.00	9.43	0.149	0.170	
		CP-OFDM	QPSK	DSI = 1	0	R/Left	650000	3750.0	1	1	10.00	9.17	0.598	0.724	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.
2. NR Band n77-DoD are tested at worst configuration of NR Band n77 band.
3. NR Band n77 tested using FTM mode.
4. In case of R/Right position, additional measurement due to simultaneous combination

10.26. NR Band n77(SRS1/SRS2/SRS3) (100MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		Plot No.
							Tune-up limit	Meas.	Meas.	Scaled	
Sub.2 -SRS1-	Standalone	SRS CW	19	Rear	662000	3930.0	22.00	20.77	0.117	0.155	
			0	R/Left	633334	3500.0	22.00	21.32	0.255	0.298	
					650000	3750.0	22.00	20.56	0.457	0.637	
					662000	3930.0	22.00	20.77	0.671	0.891	28
			19	Bottom	662000	3930.0	22.00	20.77	0.162	0.215	
			0	R/Right	662000	3930.0	22.00	20.77	0.067	0.089	
	Standalone	SRS CW	0	Rear	662000	3930.0	10.00	9.66	0.264	0.285	
				Bottom	662000	3930.0	10.00	9.66	0.333	0.360	
Sub.4 -SRS2-	Standalone	SRS CW	19	Rear	662000	3930.0	19.00	18.94	0.097	0.098	
			0	R/Left	662000	3930.0	19.00	18.94	0.224	0.227	
			19	Bottom	662000	3930.0	19.00	18.94	0.153	0.155	
			0	R/Right	633334	3500.0	19.00	18.84	0.895	0.929	29
					650000	3750.0	19.00	18.45	0.720	0.817	
					662000	3930.0	19.00	18.94	0.702	0.712	
	Standalone	SRS CW	0	Rear	633334	3500.0	10.00	9.77	0.646	0.681	
					650000	3750.0	10.00	8.62	0.258	0.355	
					662000	3930.0	10.00	8.81	0.323	0.425	
				Bottom	633334	3500.0	10.00	9.77	0.641	0.676	
					650000	3750.0	10.00	8.62	0.386	0.530	
					662000	3930.0	10.00	8.81	0.400	0.526	
Sub.3 -SRS3-	Standalone	SRS CW	19	Rear	662000	3930.0	18.00	17.75	0.046	0.049	
			22	Top	662000	3930.0	18.00	17.75	0.020	0.021	
			19	R/Right	662000	3930.0	18.00	17.75	0.116	0.123	
	Standalone	SRS CW	0	Rear	633334	3500.0	8.00	7.80	0.340	0.356	
					650000	3750.0	8.00	7.63	0.381	0.415	
					662000	3930.0	8.00	6.20	0.108	0.163	
				Top	650000	3750.0	8.00	7.63	0.179	0.195	
				R/Right	633334	3500.0	8.00	7.80	0.680	0.712	30
					650000	3750.0	8.00	7.63	0.596	0.649	
					662000	3930.0	8.00	6.20	0.298	0.451	

Note(s):

1. NR Band n77-DoD are tested at worst configuration of NR Band n77 band.
2. NR Band n77 (SRS1/SRS2/SRS3) tested using FTM mode.

10.27. LTE-uplink 2CA

5B test results

Antenna	RF Exposure Conditions	Mode	DSI State	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offest	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Tune-up Limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	QPSK	DSI=0	19	Rear	20525	836.5	1	0	20453	829.3	1	24	25.0	24.1	0.487	0.599	31

41C test results

Antenna	RF Exposure Conditions	Mode	DSI State	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offest	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Tune-up Limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	QPSK	DSI=1	0	Rear	40620	2593	1	0	40422	2573.2	1	99	15.0	14.1	0.496	0.607	32

66C test results

Antenna	RF Exposure Conditions	Mode	DSI State	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offest	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Tune-up Limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	QPSK	DSI=0	22	Top	132322	1745	1	0	132124	1725.2	1	99	24.5	23.3	0.519	0.684	33

66B test results

Antenna	RF Exposure Conditions	Mode	DSI State	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offest	Ch #.	Freq. (MHz)	RB Allocation	RB offest	Tune-up Limit	Meas.	Meas.	Scaled	
Main 1 Ant.	Standalone	QPSK	DSI=0	22	Top	132322	1745	1	0	132229	1735.7	1	24	24.5	23.0	0.561	0.794	34

10.28. Wi-Fi (DTS Band)

DTS SISO Results

Frequency Band	Antenna	Mode	RF Exposure Conditions	PWR Back-off	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
2.4GHz	WLAN SISO Ant.1	802.11b 1 Mbps	Standanloe	Off	19	Rear	1	2412.0	98.7%	20.00	19.14	0.077	0.095	
					22	Top	1	2412.0	98.7%	20.00	19.14	0.091	0.113	
					19	R/Left	1	2412.0	98.7%	20.00	19.14	0.068	0.083	
				On	0	Rear	11	2462.0	98.7%	12.00	11.16	0.552	0.679	35
						Top	11	2462.0	98.7%	12.00	11.16	0.252	0.310	
						R/Left	11	2462.0	98.7%	12.00	11.16	0.518	0.637	

DTS MIMO Results

Frequency Band	Antenna	Mode	RF Exposure Conditions	PWR Back-off	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
2.4GHz	WLAN MIMO Ant.1	802.11b 1Mbps	Standanloe	Off	19	Rear	11	2462.0	98.9%	20.00	19.30	0.115	0.137	
					22	Top	11	2462.0	98.9%	20.00	19.30	0.112	0.133	
					19	R/Left	11	2462.0	98.9%	20.00	19.30	0.082	0.097	
					19	R/Right	11	2480.0	98.9%					
				On	0	Rear	1	2412.0	98.9%					
							11	2462.0	98.9%	12.00	11.40	0.553	0.642	
						Top	1	2412.0	98.9%					
						R/Left	1	2412.0	98.9%	12.00	11.44	0.476	0.547	
						R/Right	1	2402.0	98.9%					
	WLAN MIMO Ant.2	802.11b 1Mbps	Standanloe	Off	19	Rear	11	2462.0	98.9%	20.00	18.54	0.087	0.123	
					22	Top	11	2462.0	98.9%					
					19	R/Left	11	2462.0	98.9%					
					19	R/Right	11	2480.0	98.9%	20.00	18.54	0.155	0.219	
				On	0	Rear	1	2412.0	98.9%	12.00	10.10	0.573	0.897	36
							11	2462.0	98.9%	12.00	10.33	0.557	0.827	
						Top	1	2412.0	98.9%	12.00	10.10	0.250	0.391	
						R/Left	1	2412.0	98.9%					
						R/Right	1	2402.0	98.9%	12.00	10.10	0.493	0.772	

Note(s):

1. Testing for a second channel was required because the reported SAR for this test position was > 0.8 or 2.0 W/kg (1-g or 10-g respectively). If second channel SAR is not over 1.2 or 3.0 W/kg (1-g or 10-g respectively), remain channels SAR test are not required.
2. SAR testing is not required for OFDM mode(s) 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.
3. Additional SAR tested.

10.29. Wi-Fi (U-NII Bands)

U-NII 2A SISO Results

Frequency Band	Antenna	Mode	RF Exposure Conditions	PWR Back-off	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle (%)	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
5.3 GHz U-NII 2A	WLAN SISO Ant.2	802.11a 6 Mbps	Standalone	Off	19	Rear	56	5280.0	96.9%	15.00	14.08	0.040	0.051	
					22	Top	56	5280.0	96.9%	15.00	14.08	0.034	0.044	
					19	R/Right	56	5280.0	96.9%	15.00	14.08	0.171	0.218	
		802.11ac VHT80 29.3 Mbps	Standalone	On	0	Rear	58	5290.0	94.9%	6.50	5.58	0.207	0.270	
						Top	58	5290.0	94.9%	6.50	5.58	0.061	0.079	
						R/Right	58	5290.0	94.9%	6.50	5.58	0.670	0.873	37

U-NII 2A MIMO Results

Frequency Band	Antenna	Mode	RF Exposure Conditions	PWR Back-off	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle (%)	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
5.3 GHz U-NII 2A	WLAN MIMO Ant.1	802.11a 6 Mbps	Standalone	Off	19	Rear	60	5300.0	97.1%	15.00	14.87	0.037	0.040	
					22	Top	60	5300.0	97.1%	15.00	14.87	0.019	0.020	
					19	R/Left	60	5300.0	97.1%	15.00	14.87	0.121	0.128	
					19	R/Right	60	5300.0	97.1%	15.00	14.87			
		802.11ac VHT80 29.3 Mbps	Standalone	On	0	Rear	58	5290.0	91.1%	6.50	6.06			
						Top	58	5290.0	91.1%	6.50	6.06	0.059	0.072	
						R/Left	58	5290.0	91.1%	6.50	6.06	0.353	0.429	
						R/Right	58	5290.0	91.1%	6.50	6.06			
	WLAN MIMO Ant.2	802.11a 6 Mbps	Standalone	Off	19	Rear	60	5300.0	97.1%	15.00	13.65			
					22	Top	60	5300.0	97.1%	15.00	13.65			
					19	R/Left	60	5300.0	97.1%	15.00	13.65			
					19	R/Right	60	5300.0	97.1%	15.00	13.65	0.123	0.173	
		802.11ac VHT80 29.3 Mbps	Standalone	On	0	Rear	58	5290.0	91.1%	6.50	5.41	0.257	0.362	
						Top	58	5290.0	91.1%	6.50	5.41			
						R/Left	58	5290.0	91.1%	6.50	5.41			
						R/Right	58	5290.0	91.1%	6.50	5.41	0.534	0.753	38

Note(s):

1. Testing for a second channel was required because the reported SAR for this test position was > 0.8 or 2.0 W/kg (1-g or 10-g respectively). If second channel SAR is not over 1.2 or 3.0 W/kg (1-g or 10-g respectively), remain channels SAR test are not required.

Wi-Fi (U-NII Bands) (Continued)

U-NII 2C SISO Results

Frequency Band	Antenna	Mode	RF Exposure Conditions	PWR Back-off	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle (%)	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
5.5 GHz U-NII 2C	WLAN SISO Ant.2	802.11a 6 Mbps	Standalone	Off	19	Rear	132	5660.0	96.9%	17.00	16.34	0.020	0.024	
					22	Top	132	5660.0	96.9%	17.00	16.34	0.036	0.044	
					19	R/Right	132	5660.0	96.9%	17.00	16.34	0.104	0.125	
		802.11a 6 Mbps	Standalone	On	0	Rear	140	5700.0	96.9%	10.00	9.55	0.340	0.389	
						Top	140	5700.0	96.9%	10.00	9.55	0.006	0.006	
						R/Right	140	5700.0	96.9%	10.00	9.55	0.418	0.478	39

U-NII 2C MIMO Results

Frequency Band	Antenna	Mode	RF Exposure Conditions	PWR Back-off	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle (%)	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
5.5 GHz U-NII 2C	WLAN MIMO Ant.1	802.11a 6 Mbps	Standalone	Off	19	Rear	132	5660.0	97.1%	17.00	16.62	0.035	0.040	
					22	Top	132	5660.0	97.1%	17.00	16.62	0.043	0.048	
					19	R/Left	132	5660.0	97.1%	17.00	16.62	0.149	0.167	
					19	R/Right	132	5660.0	97.1%	17.00	16.62			
		802.11a 6 Mbps	Standalone	On	0	Rear	140	5700.0	97.1%	10.00	9.81			
						Top	140	5700.0	97.1%	10.00	9.81	0.064	0.069	
						R/Left	140	5700.0	97.1%	10.00	9.81	0.508	0.546	
						R/Right	140	5700.0	97.1%	10.00	9.81			
	WLAN MIMO Ant.2	802.11a 6 Mbps	Standalone	Off	19	Rear	132	5660.0	97.1%	17.00	15.81			
					22	Top	132	5660.0	97.1%	17.00	15.81			
					19	R/Left	132	5660.0	97.1%	17.00	15.81			
					19	R/Right	132	5660.0	97.1%	17.00	15.81	0.041	0.056	
		802.11a 6 Mbps	Standalone	On	0	Rear	140	5700.0	97.1%	10.00	9.38	0.397	0.471	
						Top	140	5700.0	97.1%	10.00	9.38			
						R/Left	140	5700.0	97.1%	10.00	9.38			
						R/Right	140	5700.0	97.1%	10.00	9.38	0.503	0.597	40

Note(s):

1. Testing for a second channel was required because the reported SAR for this test position was > 0.8 or 2.0 W/kg (1-g or 10-g respectively). If second channel SAR is not over 1.2 or 3.0 W/kg (1-g or 10-g respectively), remain channels SAR test are not required.
2. Additional SAR tested.

Wi-Fi (U-NII Bands) (Continued)

U-NII 3 SISO Results

Frequency Band	Antenna	Mode	RF Exposure Conditions	PWR Back-off	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle (%)	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
5.8 GHz U-NII 3	WLAN SISO Ant.2	802.11a 6 Mbps	Standalone	Off	19	Rear	165	5825.0	96.9%	17.00	16.26	0.126	0.154	
					22	Top	165	5825.0	96.9%	17.00	16.26	0.068	0.083	
					19	R/Right	165	5825.0	96.9%	17.00	16.26	0.132	0.162	
		802.11a 6 Mbps	Standalone	On	0	Rear	157	5785.0	96.9%	9.50	9.32	0.673	0.724	41
						Top	157	5785.0	96.9%	9.50	9.32	0.037	0.040	
						R/Right	157	5785.0	96.9%	9.50	9.32	0.518	0.557	

U-NII 3 MIMO Results

Frequency Band	Antenna	Mode	RF Exposure Conditions	PWR Back-off	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle (%)	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
5.8 GHz U-NII 3	WLAN MIMO Ant.1	802.11a 6 Mbps	Standalone	Off	19	Rear	149	5745.0	97.1%	17.00	16.55			
					22	Top	149	5745.0	97.1%	17.00	16.55			
					19	R/Left	149	5745.0	97.1%	17.00	16.55	0.096	0.110	
					19	R/Right	149	5745.0	97.1%	17.00	16.55			
		802.11a 6 Mbps	Standalone	On	0	Rear	157	5785.0	97.1%	9.50	9.49			
						Top	157	5785.0	97.1%	9.50	9.49			
						R/Left	157	5785.0	97.1%	9.50	9.49	0.350	0.361	
						R/Right	157	5785.0	97.1%	9.50	9.49			
	WLAN MIMO Ant.2	802.11a 6 Mbps	Standalone	Off	19	Rear	149	5745.0	97.1%	17.00	15.47	0.082	0.120	
					22	Top	149	5745.0	97.1%	17.00	15.47	0.049	0.071	
					19	R/Left	149	5745.0	97.1%	17.00	15.47			
					19	R/Right	149	5745.0	97.1%	17.00	15.47	0.107	0.157	
		802.11a 6 Mbps	Standalone	On	0	Rear	157	5785.0	97.1%	9.50	9.20	0.556	0.613	42
						Top	157	5785.0	97.1%	9.50	9.20	0.043	0.048	
						R/Left	157	5785.0	97.1%	9.50	9.20			
						R/Right	157	5785.0	97.1%	9.50	9.20	0.325	0.358	

Note(s):

1. Testing for a second channel was required because the reported SAR for this test position was > 0.8 or 2.0 W/kg (1-g or 10-g respectively). If second channel SAR is not over 1.2 or 3.0 W/kg (1-g or 10-g respectively), remain channels SAR test are not required.
2. Additional SAR tested.

10.30. Bluetooth

Frequency Band	Antenna	Mode	RF Exposure Conditions	PWR Back-off	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		Plot No.
										Tune-up limit	Meas.	Meas.	Scaled	
2.4GHz	BT SISO Ant.1	BDR DH5	Standanloe	Off	19	Rear	78	2480.0	76.9%	15.00	13.85	0.028	0.037	
					22	Top	78	2480.0	76.9%	15.00	13.85	0.053	0.070	
					19	R/Left	78	2480.0	76.9%	15.00	13.85	0.045	0.059	
					0	R/Right	78	2480.0	76.9%	15.00	13.85	0.002	0.003	
		EDR DH5	Standanloe	On	0	Rear	39	2441.0	77.1%	11.00	10.45	0.431	0.494	43
						Top	39	2441.0	77.1%	11.00	10.45	0.238	0.273	
						R/Left	39	2441.0	77.1%	11.00	10.45	0.320	0.367	

Note(s):

1. In case of R/Right position, additional measurement due to simultaneous combination

11. SAR Measurement Variability

In accordance with published RF Exposure KDB 865664 D01 SAR measurement 100 MHz to 6 GHz. These 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 <0.8 or 2 W/kg (1-g or 10-g respectively); steps 2) through 4) do not apply.
2) When the original highest measured SAR is ≥ 0.8 or 2 W/kg (1-g or 10-g respectively), 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 or 3.6 W/kg (~ 10% from the 1-g or 10-g respective SAR limit).
4) Perform a third repeated measurement only if the original, first, or second repeated measurement is ≥ 1.5 or 3.75 W/kg (1-g or 10-g respectively) and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

Peak spatial-average (1g of tissue)

Frequency Band (MHz)	Air Interface	RF Exposure Conditions	Test Position	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	Repeated Measured SAR (W/kg)	Largest to Smallest SAR Ratio
750	LTE Band 12	Standalone	Top	No	0.499	N/A	N/A
	LTE Band 13	Standalone	Top	No	0.549	N/A	N/A
	LTE Band 14	Standalone	Rear	No	0.606	N/A	N/A
	LTE Band 71	Standalone	Rear	No	0.499	N/A	N/A
	NR Band n12	Standalone	Top	No	0.455	N/A	N/A
	NR Band n71	Standalone	Rear	No	0.461	N/A	N/A
850	WCDMA Band V	Standalone	Rear	Yes	0.879	0.871	1.01
	LTE Band 26	Standalone	Top	No	0.626	N/A	N/A
	NR Band n5	Standalone	Rear	No	0.528	N/A	N/A
1750	WCDMA Band IV	Standalone	Rear	No	0.608	N/A	N/A
	LTE Band 66	Standalone	Rear	No	0.641	N/A	N/A
	NR Band n66	Standalone	Top	No	0.591	N/A	N/A
1900	WCDMA Band II	Standalone	Top	No	0.688	N/A	N/A
	LTE Band 25	Standalone	Rear	No	0.633	N/A	N/A
	NR Band n25	Standalone	Top	No	0.606	N/A	N/A
2300	LTE Band 30	Standalone	Top	No	0.495	N/A	N/A
	NR Band n30	Standalone	Top	No	0.616	N/A	N/A
2450	DTS	Standalone	Rear	No	0.573	N/A	N/A
	Bluetooth	Standalone	Rear	No	0.431	N/A	N/A
2600	LTE Band 7	Standalone	Rear	No	0.557	N/A	N/A
	LTE Band 41	Standalone	Rear	No	0.453	N/A	N/A
	NR Band n41	Standalone	Rear	Yes	0.985	0.965	1.02
3500	NR Band n77	Standalone	R/Right	Yes	0.895	0.891	1.00
3700	NR Band n77	Standalone	R/Right	No	0.720	N/A	N/A
5250	UNII	Standalone	R/Right	No	0.670	N/A	N/A
5600	UNII	Standalone	R/Left	No	0.508	N/A	N/A
5750	UNII	Standalone	Rear	No	0.673	N/A	N/A

Note(s):

1. In above table, Only some bands above 0.8 or 2.0 W/kg (1-g or 10-g Measured SAR) were listed.

2. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20.

12. Simultaneous Transmission SAR Analysis

Simultaneous Transmission Condition

RF Exposure Condition	Item	Capable Transmit Configurations				
Standalone	1	WWAN (3G/LTE/NR)	+	DTS Ant.1		
	2	WWAN (3G/LTE/NR)	+	DTS MIMO		
	3	WWAN (3G/LTE/NR)	+	UNII Ant.2		
	4	WWAN (3G/LTE/NR)	+	UNII MIMO		
	5	WWAN (3G/LTE/NR)	+	BT Ant.1		
	6	WWAN (3G/LTE/NR)	+	UNII Ant.2	+	BT Ant.1
	7	WWAN (3G/LTE/NR)	+	UNII MIMO	+	BT Ant.1
	8	ENDC(LTE+NR)	+	DTS Ant.1		
	9	ENDC(LTE+NR)	+	DTS MIMO		
	10	ENDC(LTE+NR)	+	UNII Ant.2		
	11	ENDC(LTE+NR)	+	UNII MIMO		
	12	ENDC(LTE+NR)	+	BT Ant.1		
	13	ENDC(LTE+NR)	+	UNII Ant.2	+	BT Ant.1
	14	ENDC(LTE+NR)	+	UNII MIMO	+	BT Ant.1

Notes:

1. DTS supports Wi-Fi Direct, Hotspot and VoIP.
2. U-NII supports Wi-Fi Direct, Hotspot and VoIP.
3. W-CDMA, LTE, NR supports Hotspot and VoIP
4. U-NII Radio can transmit simultaneously with Bluetooth Radio in certain scenario
5. NR Radio support to both SA and NSA(ENDC) Radio.

Note(s):

For EN-DC mode, LSI TAS algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. LSI TAS algorithm controls the total RF exposure from both 4G and 5G NR to not exceed the RF exposure from each 4G or 5G individually. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the TAS validation Report during algorithm validation. In this SAR Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.

Simultaneous transmission SAR test exclusion considerations

KDB 447498 D01 General RF Exposure Guidance provides two procedures for determining simultaneous transmission SAR test exclusion: Sum of SAR and SAR to Peak Location Ratio (SPLSR)

Sum of SAR

To qualify for simultaneous transmission SAR test exclusion based upon Sum of SAR the sum of the reported standalone SARs for all simultaneously transmitting antennas shall be below the applicable standalone SAR limit. If the sum of the SARs is above the applicable limit then simultaneous transmission SAR test exclusion may still apply if the requirements of the SAR to Peak Location Ratio (SPLSR) evaluation are met.

SAR to Peak Location Separation Ratio (SPLSR)

KDB 447498 D01 General RF Exposure Guidance explains how to calculate the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$$SPLSR = (SAR_1 + SAR_2)^{1.5} / Ri$$

Where:

SAR_1 is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR_2 is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

Ri is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of

$$[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$$

In order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$(SAR_1 + SAR_2)^{1.5} / Ri \leq 0.04$$

When an individual antenna transmits at on two bands simultaneously, the sum of the highest *reported* SAR for the frequency bands should be used to determine SAR_1.or SAR_2. When SPLSR is necessary, the smallest distance between the peak SAR locations for the antenna pair with respect to the peaks from each antenna should be used.

The antennas in all antenna pairs that do not qualify for simultaneous transmission SAR test exclusion must be tested for SAR compliance, according to the enlarged zoom scan and volume scan post-processing procedures in KDB Publication 865664 D01

The antennas for the unlicensed transmitters are closely situated. As a result, the associated SAR hotspots are also closely situated. Some of the sum of SAR calculations yielded results over 1.6 W/kg. The SPSLR calculations for these situations were performed by treating the unlicensed SAR values as a single transmitter. The most conservative distance between all the unlicensed hotspots to the licensed hotspot was used for the value of *d* in the SPSLR calculation.

Simultaneous transmission SAR measurement

When simultaneous transmission SAR measurements are required in different frequency bands not covered by a single probe calibration point then separate tests for each frequency band are performed. The tests are performed using enlarged zoom scans which are processed, by means of superposition, using the DASY5 volume scan postprocessing procedures to determine the 1-g SAR for the aggregate SAR distribution.

The spatial resolution used for all enlarged zoom scans is the same as used for the most stringent zoom scans. I.E. the scan parameters required for the highest frequency assessed are used for all enlarged zoom scans. The scans cover the complete area of the device to ensure all transmitting antennas and radiating structures are assessed.

DASY5 provides the ability to perform Multiband Evaluations according to the latest standards using the Volume Scan job as well as appropriate routines for the Post-processing.

In order to extract and process measurements within different frequency bands, the SEMCAD X Post-processor performs the combination and subsequent superposition of these measurement data via DASY5= Combined MultiBand Averaged SAR.

Combined Multi Band Averaged SAR allows - in addition to the data extraction - an evaluation of the 1 g, 10 g and/or arbitrary averaged mass SAR.
Power Scaling Factor is used to allow the volume scans to be scaled by a value other than "1", this is important when the results need to be scaled to different maximum power levels. The Power Scaling Factor is applied to each individual point of the scan. When power scaling is used in multi-band combinations the scaling factor is applied to each individual point of the first scan, the second factor is then applied to each individual point of the second scan and so on. The scans are then combined.

SPLSR Hotspot Combination

Per November 2019 TCB Workshop Notes, SPLSR Hotspot Combination procedure can be applied to evaluate to simultaneous transmission SAR analysis.
Hybrid SPLSR and enlarged zoom scan (Volume scan) can be applied when Simultaneous transmission SAR is over 1.6 or 4.0 W/kg (1-g or 10-g respectively), it does not meet SPLSR criteria, and antenna pair is co-located. Antenna co-location means that SAR distributions overlap because the antennas are not significantly spatially separated.

Test procedure

Step.1 Perform enlarged zoom scan (Volume scan) on the co-located antenna pair to determine 1g/10g aggregate SAR.

Step.2 Apply SPLSR procedure for the spatially separated antenna and aggregate SAR distribution of the co-located antenna pair.

Sum to Peak Location Separation Ratio

Instead of doing a small volume scan over a co-located antenna pair (Hybrid SPLSR guide), Simultaneous transmission SAR test exclusion may algebraically sum the SAR values of the co-located pair and use that value in SPLSR calculation;

-In the calculation Separation distance must use the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.

12.1. Sum of the SAR for WWAN(Standalone) & Wi-Fi & BT in (Rear) position

RF Exposure	Test Position	WWAN Bands	Antenna	Standalone SAR (W/kg)						Sum of SAR (W/kg)						
				WWAN	WiFi & BT & NFC					WWAN + DTS Ant.1	WWAN + DTS MIMO	WWAN + UNII Ant.2	WWAN + UNII MIMO	WWAN + BT Ant.1	WWAN + UNII Ant.2 + BT Ant.1	WWAN + UNII MIMO + BT Ant.1
					DTS Ant.1	DTS MIMO	UNII Ant.2	UNII MIMO	BT Ant.1							
				1-1	2	3	4	5	6	1+2	1+3	1+4	1+5	1+6	1+4+6	1+5+6
Standalone	Rear	WCDMA Band V	Main.1 Ant.	0.973	0.679	0.897	0.724	0.613	0.494	1.652	1.870	1.697	1.586	1.467	2.191	2.080
		WCDMA Band IV	Main.1 Ant.	0.695	0.679	0.897	0.724	0.613	0.494	1.374	1.592	1.419	1.308	1.189	1.913	1.802
		WCDMA Band II	Main.1 Ant.	0.816	0.679	0.897	0.724	0.613	0.494	1.495	1.713	1.540	1.429	1.310	2.034	1.923
		LTE Band 7	Main.1 Ant.	0.642	0.679	0.897	0.724	0.613	0.494	1.321	1.539	1.366	1.255	1.136	1.860	1.749
		LTE Band 7	Sub.2 Ant.	0.617	0.679	0.897	0.724	0.613	0.494	1.296	1.514	1.341	1.230	1.111	1.835	1.724
		LTE Band 12	Main.1 Ant.	0.546	0.679	0.897	0.724	0.613	0.494	1.225	1.443	1.270	1.159	1.040	1.764	1.653
		LTE Band 13	Main.1 Ant.	0.766	0.679	0.897	0.724	0.613	0.494	1.445	1.663	1.490	1.379	1.260	1.984	1.873
		LTE Band 14	Main.1 Ant.	0.737	0.679	0.897	0.724	0.613	0.494	1.416	1.634	1.461	1.350	1.231	1.955	1.844
		LTE Band 25/2	Main.1 Ant.	0.624	0.679	0.897	0.724	0.613	0.494	1.303	1.521	1.348	1.237	1.118	1.842	1.731
		LTE Band 25/2	Sub.2 Ant.	0.781	0.679	0.897	0.724	0.613	0.494	1.460	1.678	1.505	1.394	1.275	1.999	1.888
		LTE Band 26/5	Main.1 Ant.	0.692	0.679	0.897	0.724	0.613	0.494	1.371	1.589	1.416	1.305	1.186	1.910	1.799
		LTE Band 30	Main.1 Ant.	0.483	0.679	0.897	0.724	0.613	0.494	1.162	1.380	1.207	1.096	0.977	1.701	1.590
		LTE Band 41	Main.1 Ant.	0.607	0.679	0.897	0.724	0.613	0.494	1.286	1.504	1.331	1.220	1.101	1.825	1.714
		LTE Band 66/4	Main.1 Ant.	0.659	0.679	0.897	0.724	0.613	0.494	1.338	1.556	1.383	1.272	1.153	1.877	1.766
		LTE Band 66/4	Sub.2 Ant.	0.748	0.679	0.897	0.724	0.613	0.494	1.427	1.645	1.472	1.361	1.242	1.966	1.855
		LTE Band 71	Main.1 Ant.	0.530	0.679	0.897	0.724	0.613	0.494	1.209	1.427	1.254	1.143	1.024	1.748	1.637
		NR Band n5	Main.1 Ant.	0.729	0.679	0.897	0.724	0.613	0.494	1.408	1.626	1.453	1.342	1.223	1.947	1.836
		NR Band n12	Main.1 Ant.	0.467	0.679	0.897	0.724	0.613	0.494	1.146	1.364	1.191	1.080	0.961	1.685	1.574
		NR Band n25/n2	Main.1 Ant.	0.606	0.679	0.897	0.724	0.613	0.494	1.285	1.503	1.330	1.219	1.100	1.824	1.713
		NR Band n30	Main.1 Ant.	0.464	0.679	0.897	0.724	0.613	0.494	1.143	1.361	1.188	1.077	0.958	1.682	1.571
		NR Band n41	Main.1 Ant.	0.811	0.679	0.897	0.724	0.613	0.494	1.490	1.708	1.535	1.424	1.305	2.029	1.918
		NR Band n41-SRS1	Sub.2 Ant.	0.677	0.679	0.897	0.724	0.613	0.494	1.356	1.574	1.401	1.290	1.171	1.895	1.784
		NR Band n41-SRS2	Sub.4 Ant.	0.582	0.679	0.897	0.724	0.613	0.494	1.261	1.479	1.306	1.195	1.076	1.800	1.689
		NR Band n41-SRS3	Sub.1 Ant.	1.190	0.679	0.897	0.724	0.613	0.494	1.869	2.087	1.914	1.803	1.684	2.408	2.297
		NR Band n66	Main.1 Ant.	0.799	0.679	0.897	0.724	0.613	0.494	1.478	1.696	1.523	1.412	1.293	2.017	1.906
		NR Band n71	Main.1 Ant.	0.523	0.679	0.897	0.724	0.613	0.494	1.202	1.420	1.247	1.136	1.017	1.741	1.630
		NR Band n77	Main.2 Ant.	0.349	0.679	0.897	0.724	0.613	0.494	1.028	1.246	1.073	0.962	0.843	1.567	1.456
		NR Band n77-SRS1	Sub.2 Ant.	0.285	0.679	0.897	0.724	0.613	0.494	0.964	1.182	1.009	0.898	0.779	1.503	1.392
		NR Band n77-SRS2	Sub.4 Ant.	0.681	0.679	0.897	0.724	0.613	0.494	1.360	1.578	1.405	1.294	1.175	1.899	1.788
		NR Band n77-SRS3	Sub.3 Ant.	0.415	0.679	0.897	0.724	0.613	0.494	1.094	1.312	1.139	1.028	0.909	1.633	1.522

Note(s):

1. If some simultaneous transmission scenarios are over FCC limit(Red values in table), SPLSR criteria was performed in Appendix I. According to the results of Appendix I, all combination exceeding the FCC limit of above table satisfied the SPLSR criteria. Please refer to Appendix I.

12.2. Sum of the SAR for WWAN(Standalone) & Wi-Fi & BT in (Top) position

RF Exposure	Test Position	WWAN Bands	Antenna	Standalone SAR (W/kg)						Sum of SAR (W/kg)						
				WWAN	WiFi & BT & NFC					WWAN + DTS Ant.1	WWAN + DTS MIMO	WWAN + UNII Ant.2	WWAN + UNII MIMO	WWAN + BT Ant.1	WWAN + UNII Ant.2 + BT Ant.1	WWAN + UNII MIMO + BT Ant.1
					DTS Ant.1	DTS MIMO	UNII Ant.2	UNII MIMO	BT Ant.1							
				1-1	2	3	4	5	6	1+2	1+3	1+4	1+5	1+6	1+4+6	1+5+6
Standalone	Top	WCDMA Band V	Main.1 Ant.	1.035	0.310	0.391	0.083	0.072	0.273	1.345	1.426	1.118	1.107	1.308	1.391	1.380
		WCDMA Band IV	Main.1 Ant.	0.744	0.310	0.391	0.083	0.072	0.273	1.054	1.135	0.827	0.816	1.017	1.100	1.089
		WCDMA Band II	Main.1 Ant.	0.878	0.310	0.391	0.083	0.072	0.273	1.188	1.269	0.961	0.950	1.151	1.234	1.223
		LTE Band 7	Main.1 Ant.	0.534	0.310	0.391	0.083	0.072	0.273	0.844	0.925	0.617	0.606	0.807	0.890	0.879
		LTE Band 7	Sub.2 Ant.	0.085	0.310	0.391	0.083	0.072	0.273	0.395	0.476	0.168	0.157	0.358	0.441	0.430
		LTE Band 12	Main.1 Ant.	0.556	0.310	0.391	0.083	0.072	0.273	0.866	0.947	0.639	0.628	0.829	0.912	0.901
		LTE Band 13	Main.1 Ant.	0.772	0.310	0.391	0.083	0.072	0.273	1.082	1.163	0.855	0.844	1.045	1.128	1.117
		LTE Band 14	Main.1 Ant.	0.671	0.310	0.391	0.083	0.072	0.273	0.981	1.062	0.754	0.743	0.944	1.027	1.016
		LTE Band 25/2	Main.1 Ant.	0.770	0.310	0.391	0.083	0.072	0.273	1.080	1.161	0.853	0.842	1.043	1.126	1.115
		LTE Band 25/2	Sub.2 Ant.	0.087	0.310	0.391	0.083	0.072	0.273	0.397	0.478	0.170	0.159	0.360	0.443	0.432
		LTE Band 26/5	Main.1 Ant.	0.758	0.310	0.391	0.083	0.072	0.273	1.068	1.149	0.841	0.830	1.031	1.114	1.103
		LTE Band 30	Main.1 Ant.	0.642	0.310	0.391	0.083	0.072	0.273	0.952	1.033	0.725	0.714	0.915	0.998	0.987
		LTE Band 41	Main.1 Ant.	0.418	0.310	0.391	0.083	0.072	0.273	0.728	0.809	0.501	0.490	0.691	0.774	0.763
		LTE Band 66/4	Main.1 Ant.	0.794	0.310	0.391	0.083	0.072	0.273	1.104	1.185	0.877	0.866	1.067	1.150	1.139
		LTE Band 66/4	Sub.2 Ant.	0.087	0.310	0.391	0.083	0.072	0.273	0.397	0.478	0.170	0.159	0.360	0.443	0.432
		LTE Band 71	Main.1 Ant.	0.516	0.310	0.391	0.083	0.072	0.273	0.826	0.907	0.599	0.588	0.789	0.872	0.861
		NR Band n5	Main.1 Ant.	0.741	0.310	0.391	0.083	0.072	0.273	1.051	1.132	0.824	0.813	1.014	1.097	1.086
		NR Band n12	Main.1 Ant.	0.478	0.310	0.391	0.083	0.072	0.273	0.788	0.869	0.561	0.550	0.751	0.834	0.823
		NR Band n25/n2	Main.1 Ant.	0.717	0.310	0.391	0.083	0.072	0.273	1.027	1.108	0.800	0.789	0.990	1.073	1.062
		NR Band n30	Main.1 Ant.	0.694	0.310	0.391	0.083	0.072	0.273	1.004	1.085	0.777	0.766	0.967	1.050	1.039
		NR Band n41	Main.1 Ant.	0.650	0.310	0.391	0.083	0.072	0.273	0.960	1.041	0.733	0.722	0.923	1.006	0.995
		NR Band n41-SRS1	Sub.2 Ant.	0.076	0.310	0.391	0.083	0.072	0.273	0.386	0.467	0.159	0.148	0.349	0.432	0.421
		NR Band n41-SRS2	Sub.4 Ant.	0.085	0.310	0.391	0.083	0.072	0.273	0.395	0.476	0.168	0.157	0.358	0.441	0.430
		NR Band n41-SRS3	Sub.1 Ant.	0.057	0.310	0.391	0.083	0.072	0.273	0.367	0.448	0.140	0.129	0.330	0.413	0.402
		NR Band n66	Main.1 Ant.	0.799	0.310	0.391	0.083	0.072	0.273	1.109	1.190	0.882	0.871	1.072	1.155	1.144
		NR Band n71	Main.1 Ant.	0.416	0.310	0.391	0.083	0.072	0.273	0.726	0.807	0.499	0.488	0.689	0.772	0.761
		NR Band n77	Main.2 Ant.	0.226	0.310	0.391	0.083	0.072	0.273	0.536	0.617	0.309	0.298	0.499	0.582	0.571
		NR Band n77-SRS1	Sub.2 Ant.	0.210	0.310	0.391	0.083	0.072	0.273	0.520	0.601	0.293	0.282	0.483	0.566	0.555
		NR Band n77-SRS2	Sub.4 Ant.	0.105	0.310	0.391	0.083	0.072	0.273	0.415	0.496	0.188	0.177	0.378	0.461	0.450
		NR Band n77-SRS3	Sub.3 Ant.	0.195	0.310	0.391	0.083	0.072	0.273	0.505	0.586	0.278	0.267	0.468	0.551	0.540

Note(s):

1. All Sum results are below FCC limit (1.6 W/kg). So additional evaluation are not required.
2. Green value is estimated SAR according to calculate of KDB 447498 D04. Please refer to Section.7.

12.3. Sum of the SAR for WWAN(Standalone) & Wi-Fi & BT in (R/Left) position

RF Exposure	Test Position	WWAN Bands	Antenna	Standalone SAR (W/kg)						Sum of SAR (W/kg)						
				WWAN	WiFi & BT & NFC					WWAN + DTS Ant.1	WWAN + DTS MIMO	WWAN + UNII Ant.2	WWAN + UNII MIMO	WWAN + BT Ant.1	WWAN + UNII Ant.2 + BT Ant.1	WWAN + UNII MIMO + BT Ant.1
					DTS Ant.1	DTS MIMO	UNII Ant.2	UNII MIMO	BT Ant.1							
				1-1	2	3	4	5	6	1+2	1+3	1+4	1+5	1+6	1+4+6	1+5+6
Standalone	R/Left	WCDMA Band V	Main.1 Ant.	0.065	0.637	0.547	0.079	0.546	0.367	0.702	0.612	0.144	0.611	0.432	0.511	0.978
		WCDMA Band IV	Main.1 Ant.	0.073	0.637	0.547	0.079	0.546	0.367	0.710	0.620	0.152	0.619	0.440	0.519	0.986
		WCDMA Band II	Main.1 Ant.	0.084	0.637	0.547	0.079	0.546	0.367	0.721	0.631	0.163	0.630	0.451	0.530	0.997
		LTE Band 7	Main.1 Ant.	0.072	0.637	0.547	0.079	0.546	0.367	0.709	0.619	0.151	0.618	0.439	0.518	0.985
		LTE Band 7	Sub.2 Ant.	0.291	0.637	0.547	0.079	0.546	0.367	0.928	0.838	0.370	0.837	0.658	0.737	1.204
		LTE Band 12	Main.1 Ant.	0.074	0.637	0.547	0.079	0.546	0.367	0.711	0.621	0.153	0.620	0.441	0.520	0.987
		LTE Band 13	Main.1 Ant.	0.116	0.637	0.547	0.079	0.546	0.367	0.753	0.663	0.195	0.662	0.483	0.562	1.029
		LTE Band 14	Main.1 Ant.	0.131	0.637	0.547	0.079	0.546	0.367	0.768	0.678	0.210	0.677	0.498	0.577	1.044
		LTE Band 25/2	Main.1 Ant.	0.068	0.637	0.547	0.079	0.546	0.367	0.705	0.615	0.147	0.614	0.435	0.514	0.981
		LTE Band 25/2	Sub.2 Ant.	0.433	0.637	0.547	0.079	0.546	0.367	1.070	0.980	0.512	0.979	0.800	0.879	1.346
		LTE Band 26/5	Main.1 Ant.	0.072	0.637	0.547	0.079	0.546	0.367	0.709	0.619	0.151	0.618	0.439	0.518	0.985
		LTE Band 30	Main.1 Ant.	0.040	0.637	0.547	0.079	0.546	0.367	0.677	0.587	0.119	0.586	0.407	0.486	0.953
		LTE Band 41	Main.1 Ant.	0.053	0.637	0.547	0.079	0.546	0.367	0.690	0.600	0.132	0.599	0.420	0.499	0.966
		LTE Band 66/4	Main.1 Ant.	0.092	0.637	0.547	0.079	0.546	0.367	0.729	0.639	0.171	0.638	0.459	0.538	1.005
		LTE Band 66/4	Sub.2 Ant.	0.367	0.637	0.547	0.079	0.546	0.367	1.004	0.914	0.446	0.913	0.734	0.813	1.280
		LTE Band 71	Main.1 Ant.	0.050	0.637	0.547	0.079	0.546	0.367	0.687	0.597	0.129	0.596	0.417	0.496	0.963
		NR Band n5	Main.1 Ant.	0.072	0.637	0.547	0.079	0.546	0.367	0.709	0.619	0.151	0.618	0.439	0.518	0.985
		NR Band n12	Main.1 Ant.	0.033	0.637	0.547	0.079	0.546	0.367	0.670	0.580	0.112	0.579	0.400	0.479	0.946
		NR Band n25/n2	Main.1 Ant.	0.082	0.637	0.547	0.079	0.546	0.367	0.719	0.629	0.161	0.628	0.449	0.528	0.995
		NR Band n30	Main.1 Ant.	0.048	0.637	0.547	0.079	0.546	0.367	0.685	0.595	0.127	0.594	0.415	0.494	0.961
		NR Band n41	Main.1 Ant.	0.055	0.637	0.547	0.079	0.546	0.367	0.692	0.602	0.134	0.601	0.422	0.501	0.968
		NR Band n41-SRS1	Sub.2 Ant.	0.427	0.637	0.547	0.079	0.546	0.367	1.064	0.974	0.506	0.973	0.794	0.873	1.340
		NR Band n41-SRS2	Sub.4 Ant.	0.012	0.637	0.547	0.079	0.546	0.367	0.649	0.559	0.091	0.558	0.379	0.458	0.925
		NR Band n41-SRS3	Sub.1 Ant.	0.011	0.637	0.547	0.079	0.546	0.367	0.648	0.558	0.090	0.557	0.378	0.457	0.924
		NR Band n66	Main.1 Ant.	0.074	0.637	0.547	0.079	0.546	0.367	0.711	0.621	0.153	0.620	0.441	0.520	0.987
		NR Band n71	Main.1 Ant.	0.057	0.637	0.547	0.079	0.546	0.367	0.694	0.604	0.136	0.603	0.424	0.503	0.970
		NR Band n77	Main.2 Ant.	0.794	0.637	0.547	0.079	0.546	0.367	1.431	1.341	0.873	1.340	1.161	1.240	1.707
		NR Band n77-SRS1	Sub.2 Ant.	0.891	0.637	0.547	0.079	0.546	0.367	1.528	1.438	0.970	1.437	1.258	1.337	1.804
		NR Band n77-SRS2	Sub.4 Ant.	0.227	0.637	0.547	0.079	0.546	0.367	0.864	0.774	0.306	0.773	0.594	0.673	1.140
		NR Band n77-SRS3	Sub.3 Ant.	0.269	0.637	0.547	0.079	0.546	0.367	0.906	0.816	0.348	0.815	0.636	0.715	1.182

Note(s):

1. Green value is estimated SAR according to calculate of KDB 447498 D04. Please refer to Section.7.
2. If some simultaneous transmission scenarios are over FCC limit(Red values in table), SPLSR criteria was performed in Appendix I. According to the results of Appendix I, all combination exceeding the FCC limit of above table satisfied the SPLSR criteria. Please refer to Appendix I.

12.4. Sum of the SAR for WWAN(Standalone) & Wi-Fi & BT in (Bottom) position

RF Exposure	Test Position	WWAN Bands	Antenna	Standalone SAR (W/kg)						Sum of SAR (W/kg)						
				WWAN	WiFi & BT					WWAN + DTS Ant.1	WWAN + DTS MIMO	WWAN + UNII Ant.2	WWAN + UNII MIMO	WWAN + BT Ant.1	WWAN + UNII Ant.2 + BT Ant.1	WWAN + UNII MIMO + BT Ant.1
					DTS Ant.1	DTS MIMO	UNII Ant.2	UNII MIMO	BT Ant.1							
				1-1	2	3	4	5	6	1+2	1+3	1+4	1+5	1+6	1+4+6	1+5+6
Standalone	Bottom	WCDMA Band V	Main.1 Ant.	0.189	0.036	0.073	0.018	0.035	0.009	0.225	0.262	0.207	0.224	0.198	0.216	0.233
		WCDMA Band IV	Main.1 Ant.	0.110	0.036	0.073	0.018	0.035	0.009	0.146	0.183	0.128	0.145	0.119	0.137	0.154
		WCDMA Band II	Main.1 Ant.	0.097	0.036	0.073	0.018	0.035	0.009	0.133	0.170	0.115	0.132	0.106	0.124	0.141
		LTE Band 7	Main.1 Ant.	0.108	0.036	0.073	0.018	0.035	0.009	0.144	0.181	0.126	0.143	0.117	0.135	0.152
		LTE Band 7	Sub.2 Ant.	0.462	0.036	0.073	0.018	0.035	0.009	0.498	0.535	0.480	0.497	0.471	0.489	0.506
		LTE Band 12	Main.1 Ant.	0.258	0.036	0.073	0.018	0.035	0.009	0.294	0.331	0.276	0.293	0.267	0.285	0.302
		LTE Band 13	Main.1 Ant.	0.231	0.036	0.073	0.018	0.035	0.009	0.267	0.304	0.249	0.266	0.240	0.258	0.275
		LTE Band 14	Main.1 Ant.	0.228	0.036	0.073	0.018	0.035	0.009	0.264	0.301	0.246	0.263	0.237	0.255	0.272
		LTE Band 25/2	Main.1 Ant.	0.109	0.036	0.073	0.018	0.035	0.009	0.145	0.182	0.127	0.144	0.118	0.136	0.153
		LTE Band 25/2	Sub.2 Ant.	0.591	0.036	0.073	0.018	0.035	0.009	0.627	0.664	0.609	0.626	0.600	0.618	0.635
		LTE Band 26/5	Main.1 Ant.	0.212	0.036	0.073	0.018	0.035	0.009	0.248	0.285	0.230	0.247	0.221	0.239	0.256
		LTE Band 30	Main.1 Ant.	0.068	0.036	0.073	0.018	0.035	0.009	0.104	0.141	0.086	0.103	0.077	0.095	0.112
		LTE Band 41	Main.1 Ant.	0.107	0.036	0.073	0.018	0.035	0.009	0.143	0.180	0.125	0.142	0.116	0.134	0.151
		LTE Band 66/4	Main.1 Ant.	0.098	0.036	0.073	0.018	0.035	0.009	0.134	0.171	0.116	0.133	0.107	0.125	0.142
		LTE Band 66/4	Sub.2 Ant.	0.460	0.036	0.073	0.018	0.035	0.009	0.496	0.533	0.478	0.495	0.469	0.487	0.504
		LTE Band 71	Main.1 Ant.	0.265	0.036	0.073	0.018	0.035	0.009	0.301	0.338	0.283	0.300	0.274	0.292	0.309
		NR Band n5	Main.1 Ant.	0.212	0.036	0.073	0.018	0.035	0.009	0.248	0.285	0.230	0.247	0.221	0.239	0.256
		NR Band n12	Main.1 Ant.	0.258	0.036	0.073	0.018	0.035	0.009	0.294	0.331	0.276	0.293	0.267	0.285	0.302
		NR Band n25/n2	Main.1 Ant.	0.109	0.036	0.073	0.018	0.035	0.009	0.145	0.182	0.127	0.144	0.118	0.136	0.153
		NR Band n30	Main.1 Ant.	0.077	0.036	0.073	0.018	0.035	0.009	0.113	0.150	0.095	0.112	0.086	0.104	0.121
		NR Band n41	Main.1 Ant.	0.107	0.036	0.073	0.018	0.035	0.009	0.143	0.180	0.125	0.142	0.116	0.134	0.151
		NR Band n41-SRS1	Sub.2 Ant.	1.087	0.036	0.073	0.018	0.035	0.009	1.123	1.160	1.105	1.122	1.096	1.114	1.131
		NR Band n41-SRS2	Sub.4 Ant.	0.169	0.036	0.073	0.018	0.035	0.009	0.205	0.242	0.187	0.204	0.178	0.196	0.213
		NR Band n41-SRS3	Sub.1 Ant.	0.521	0.036	0.073	0.018	0.035	0.009	0.557	0.594	0.539	0.556	0.530	0.548	0.565
		NR Band n66	Main.1 Ant.	0.110	0.036	0.073	0.018	0.035	0.009	0.146	0.183	0.128	0.145	0.119	0.137	0.154
		NR Band n71	Main.1 Ant.	0.265	0.036	0.073	0.018	0.035	0.009	0.301	0.338	0.283	0.300	0.274	0.292	0.309
		NR Band n77	Main.2 Ant.	0.198	0.036	0.073	0.018	0.035	0.009	0.234	0.271	0.216	0.233	0.207	0.225	0.242
		NR Band n77-SRS1	Sub.2 Ant.	0.360	0.036	0.073	0.018	0.035	0.009	0.396	0.433	0.378	0.395	0.369	0.387	0.404
		NR Band n77-SRS2	Sub.4 Ant.	0.676	0.036	0.073	0.018	0.035	0.009	0.712	0.749	0.694	0.711	0.685	0.703	0.720
		NR Band n77-SRS3	Sub.3 Ant.	0.064	0.036	0.073	0.018	0.035	0.009	0.100	0.137	0.082	0.099	0.073	0.091	0.108

Note(s):

1. Green value is estimated SAR according to calculate of KDB 447498 D04. Please refer to Section.7.
2. All Sum results are below FCC limit (1.6 W/kg). So additional evaluation are not required.

12.5. Sum of the SAR for WWAN(Standalone) & Wi-Fi & BT in (R/Right) position

RF Exposure	Test Position	WWAN Bands	Antenna	Standalone SAR (W/kg)						Sum of SAR (W/kg)						
				WWAN	WiFi & BT					WWAN + DTS Ant.1	WWAN + DTS MIMO	WWAN + UNII Ant.2	WWAN + UNII MIMO	WWAN + BT Ant.1	WWAN + UNII Ant.2 + BT Ant.1	WWAN + UNII MIMO + BT Ant.1
					DTS Ant.1	DTS MIMO	UNII Ant.2	UNII MIMO	BT Ant.1							
				1-1	2	3	4	5	6	1+2	1+3	1+4	1+5	1+6	1+4+6	1+5+6
Standalone	R/Right	WCDMA Band V	Main.1 Ant.	0.039	0.143	0.772	0.873	0.753	0.003	0.182	0.811	0.912	0.792	0.042	0.915	0.795
		WCDMA Band IV	Main.1 Ant.	0.208	0.143	0.772	0.873	0.753	0.003	0.351	0.980	1.081	0.961	0.211	1.084	0.964
		WCDMA Band II	Main.1 Ant.	0.056	0.143	0.772	0.873	0.753	0.003	0.199	0.828	0.929	0.809	0.059	0.932	0.812
		LTE Band 7	Main.1 Ant.	0.006	0.143	0.772	0.873	0.753	0.003	0.149	0.778	0.879	0.759	0.009	0.882	0.762
		LTE Band 7	Sub.2 Ant.	0.154	0.143	0.772	0.873	0.753	0.003	0.297	0.926	1.027	0.907	0.157	1.030	0.910
		LTE Band 12	Main.1 Ant.	0.039	0.143	0.772	0.873	0.753	0.003	0.182	0.811	0.912	0.792	0.042	0.915	0.795
		LTE Band 13	Main.1 Ant.	0.048	0.143	0.772	0.873	0.753	0.003	0.191	0.820	0.921	0.801	0.051	0.924	0.804
		LTE Band 14	Main.1 Ant.	0.056	0.143	0.772	0.873	0.753	0.003	0.199	0.828	0.929	0.809	0.059	0.932	0.812
		LTE Band 25/2	Main.1 Ant.	0.082	0.143	0.772	0.873	0.753	0.003	0.225	0.854	0.955	0.835	0.085	0.958	0.838
		LTE Band 25/2	Sub.2 Ant.	0.318	0.143	0.772	0.873	0.753	0.003	0.461	1.090	1.191	1.071	0.321	1.194	1.074
		LTE Band 26/5	Main.1 Ant.	0.034	0.143	0.772	0.873	0.753	0.003	0.177	0.806	0.907	0.787	0.037	0.910	0.790
		LTE Band 30	Main.1 Ant.	0.025	0.143	0.772	0.873	0.753	0.003	0.168	0.797	0.898	0.778	0.028	0.901	0.781
		LTE Band 41	Main.1 Ant.	0.006	0.143	0.772	0.873	0.753	0.003	0.149	0.778	0.879	0.759	0.009	0.882	0.762
		LTE Band 66/4	Main.1 Ant.	0.223	0.143	0.772	0.873	0.753	0.003	0.366	0.995	1.096	0.976	0.226	1.099	0.979
		LTE Band 66/4	Sub.2 Ant.	0.287	0.143	0.772	0.873	0.753	0.003	0.430	1.059	1.160	1.040	0.290	1.163	1.043
		LTE Band 71	Main.1 Ant.	0.045	0.143	0.772	0.873	0.753	0.003	0.188	0.817	0.918	0.798	0.048	0.921	0.801
		NR Band n5	Main.1 Ant.	0.067	0.143	0.772	0.873	0.753	0.003	0.210	0.839	0.940	0.820	0.070	0.943	0.823
		NR Band n12	Main.1 Ant.	0.029	0.143	0.772	0.873	0.753	0.003	0.172	0.801	0.902	0.782	0.032	0.905	0.785
		NR Band n25/n2	Main.1 Ant.	0.043	0.143	0.772	0.873	0.753	0.003	0.186	0.815	0.916	0.796	0.046	0.919	0.799
		NR Band n30	Main.1 Ant.	0.021	0.143	0.772	0.873	0.753	0.003	0.164	0.793	0.894	0.774	0.024	0.897	0.777
		NR Band n41	Main.1 Ant.	0.013	0.143	0.772	0.873	0.753	0.003	0.156	0.785	0.886	0.766	0.016	0.889	0.769
		NR Band n41-SRS1	Sub.2 Ant.	0.083	0.143	0.772	0.873	0.753	0.003	0.226	0.855	0.956	0.836	0.086	0.959	0.839
		NR Band n41-SRS2	Sub.4 Ant.	0.282	0.143	0.772	0.873	0.753	0.003	0.425	1.054	1.155	1.035	0.285	1.158	1.038
		NR Band n41-SRS3	Sub.1 Ant.	1.141	0.143	0.772	0.873	0.753	0.003	1.284	1.913	2.014	1.894	1.144	2.017	1.897
		NR Band n66	Main.1 Ant.	0.102	0.143	0.772	0.873	0.753	0.003	0.245	0.874	0.975	0.855	0.105	0.978	0.858
		NR Band n71	Main.1 Ant.	0.036	0.143	0.772	0.873	0.753	0.003	0.179	0.808	0.909	0.789	0.039	0.912	0.792
		NR Band n77	Main.2 Ant.	0.024	0.143	0.772	0.873	0.753	0.003	0.167	0.796	0.897	0.777	0.027	0.900	0.780
		NR Band n77-SRS1	Sub.2 Ant.	0.089	0.143	0.772	0.873	0.753	0.003	0.232	0.861	0.962	0.842	0.092	0.965	0.845
		NR Band n77-SRS2	Sub.4 Ant.	0.929	0.143	0.772	0.873	0.753	0.003	1.072	1.701	1.802	1.682	0.932	1.805	1.685
		NR Band n77-SRS3	Sub.3 Ant.	0.712	0.143	0.772	0.873	0.753	0.003	0.855	1.484	1.585	1.465	0.715	1.588	1.468

Note(s):

1. Green value is estimated SAR according to calculate of KDB 447498 D04. Please refer to Section.7.
2. If some simultaneous transmission scenarios are over FCC limit(Red values in table), SPLSR criteria was performed in Appendix I. According to the results of Appendix I, all combination exceeding the FCC limit of above table satisfied the SPLSR criteria. Please refer to Appendix I.

Appendixes

Refer to separated files for the following appendixes.

4790841154-S1 FCC Report SAR_App A_Photos & Ant. Locations

4790841154-S1 FCC Report SAR_App B_Highest SAR Test Plots

4790841154-S1 FCC Report SAR_App C_System Check Plots

4790841154-S1 FCC Report SAR_App D_SAR Tissue Ingredients

4790841154-S1 FCC Report SAR_App E_Probe Cal. Certificates

4790841154-S1 FCC Report SAR_App F_Dipole Cal. Certificates

4790841154-S1 FCC Report SAR_App G_Proximity Sensor feature

4790841154-S1 FCC Report SAR_App H_LTE Carrier Aggregation

4790841154-S1 FCC Report SAR_App I_SPLSR criteria

END OF REPORT