FCC 47 CFR § 2.1093
IEEE Std 1528-2013

SAR EVALUATION REPORT

FOR

GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac and NFC

MODEL NUMBER: SM-A166U, SM-A166U1, SM-S166V

FCC ID: A3LSMA166U

REPORT NUMBER: S-4791440365-S1V3

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Prepared for
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TL-637

Revision History

Rev.	Date	Revisions	Revised By
V1	2024-10-11	Initial Issue	--
V2	2024-10-18	Revised SAR value in Sec. 1. Revised table in Sec. 6.2. Revised note in Sec. 6.2. Revised typo in Sec. 6.3. & 6.4. Revised power table in Sec. 9.3. Revised table in Sec. 10.9. Revised target power typo in Sec. 10.26. Revised SAR value in Sec. 12.1.1. & 12.2.1.	Hakchul Lee
V3	2024-10-22	Revised SAR value in Sec.1.1	Sunghoon Kim

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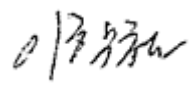
1. Attestation of Test Results

Applicant Name		SAMSUNG ELECTRONICS CO.,LTD.					
FCC ID		A3LSMA166U					
Model Number		SM-A166U, SM-A166U1, SM-S166V					
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)			Product Specific 10g (10g of tissue)		
General population / Uncontrolled exposure		1.6			4.0		
RF Exposure Conditions		Equipment Class - The Highest *Reported* SAR (W/kg)					
		PCE	CBE	DTS	NII	DSS	DXX
Head		0.43	0.56	0.16	0.37	0.12	N/A
Body-worn		0.67	0.55	0.64	0.87	<0.10	N/A
Hotspot		0.67	0.55	0.64	0.87	<0.10	N/A
Product Specific 10g		N/A	N/A	N/A	1.99	N/A	<0.10
Simultaneous TX	Head	1.55	1.55	1.55	1.55	1.55	N/A
	Body-worn	1.55	1.55	1.52	1.55	1.55	N/A
	Hotspot	1.55	1.55	1.52	1.55	1.55	N/A
	Product Specific 10g	N/A	N/A	N/A	2.01	N/A	2.01
Date Tested		2024-08-13 to 2024-10-11					
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	Hakchul Lee Laboratory Engineer UL Korea, Ltd. Suwon Laboratory

1.1. The Highest Reported SAR Results

Equipment Class	Band	Antenna	The Highest Reported SAR (W/kg) of RF exposure conditions			
			1g of tissue			10g of tissue
			Head Exposure	Body-worn Exposure	Hotspot Exposure	Product Specific Exposure
PCE	GSM 850	Ant. A	0.338	0.428	0.428	N/A
	GSM 1900	Ant. A	0.156	0.536	0.596	N/A
	WCDMA Band II	Ant. A	0.206	0.409	0.409	N/A
	WCDMA Band IV	Ant. A	0.204	0.355	0.355	N/A
	WCDMA Band V	Ant. A	0.316	0.379	0.379	N/A
	LTE Band 2	Ant. B	0.316	0.474	0.474	N/A
	LTE Band 25 (2)	Ant. A	0.325	0.472	0.472	N/A
	LTE Band 66 (4)	Ant. A	0.248	0.388	0.428	N/A
	LTE Band 66	Ant. B	0.253	0.522	0.522	N/A
	LTE Band 5	Ant. A	0.312	0.490	0.490	N/A
	LTE Band 26	Ant. A	0.356	0.514	0.514	N/A
	LTE Band 7	Ant. A	0.380	0.509	0.509	N/A
	LTE Band 12	Ant. A	0.295	0.520	0.520	N/A
	LTE Band 13	Ant. A	0.299	0.462	0.462	N/A
	LTE Band 14	Ant. A	0.253	0.431	0.431	N/A
	LTE Band 30	Ant. A	0.239	0.481	0.481	N/A
	LTE Band 71	Ant. A	0.288	0.384	0.384	N/A
	LTE Band 41 PC3 (38)	Ant. A	0.093	0.192	0.192	N/A
	NR Band n2	Ant. B	0.313	0.603	0.603	N/A
	NR Band n25 (2)	Ant. A	0.274	0.414	0.422	N/A
	NR Band n5	Ant. A	0.431	0.665	0.665	N/A
	NR Band n30	Ant. A	0.324	0.404	0.404	N/A
	NR Band n41 PC2	Ant. A	0.088	0.157	0.157	N/A
	NR Band n66	Ant. A	0.272	0.314	0.314	N/A
	NR Band n66	Ant. B	0.219	0.373	0.467	N/A
	NR Band n70	Ant. A	0.356	0.458	0.458	N/A
	NR Band n71	Ant. A	0.169	0.271	0.347	N/A
	NR Band n77(78) PC2	Ant. E	0.214	0.319	0.319	N/A
	NR Band n77(78) PC2 SRS#1	Ant. G	0.428	0.204	0.205	N/A
	NR Band n77(78) PC2 SRS#2	Ant. D	0.360	0.070	0.070	N/A
	NR Band n77(78) PC2 SRS#3	Ant. F	0.221	0.176	0.176	N/A
CBE	LTE Band 48	Ant. E	0.174	0.140	0.140	N/A
	NR Band n48	Ant. E	0.562	0.548	0.548	N/A
	NR Band n48 SRS#1	Ant. G	0.559	0.396	0.396	N/A
	NR Band n48 SRS#2	Ant. D	0.296	0.091	0.091	N/A
	NR Band n48 SRS#3	Ant. F	0.297	0.184	0.184	N/A
DTS	2.4GHz WLAN		0.160	0.640	0.640	N/A
NII	5GHz WLAN		0.370	0.865	0.865	1.991
DSS	Bluetooth		0.115	0.085	0.085	N/A
DXX	NFC		N/A	N/A	N/A	0.021

Note(s):

1. The Highest Reported SAR Results were listed for each RF exposure conditions for each supported bands based on SAR test results of Section.10.

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
- 648474 D04 Handset SAR v01r03
- 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
- 941225 D07 UMPC Mini Tablet v01r02
- 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 (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 October, 2020; 5G RFX Policies (Intra-band and Inter-band NSA-EN-DC evaluation)
- 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 2 Room	SAR 7 Room
SAR 3 Room	SAR 8 Room
SAR 4 Room	SAR 9 Room
SAR 5 Room	

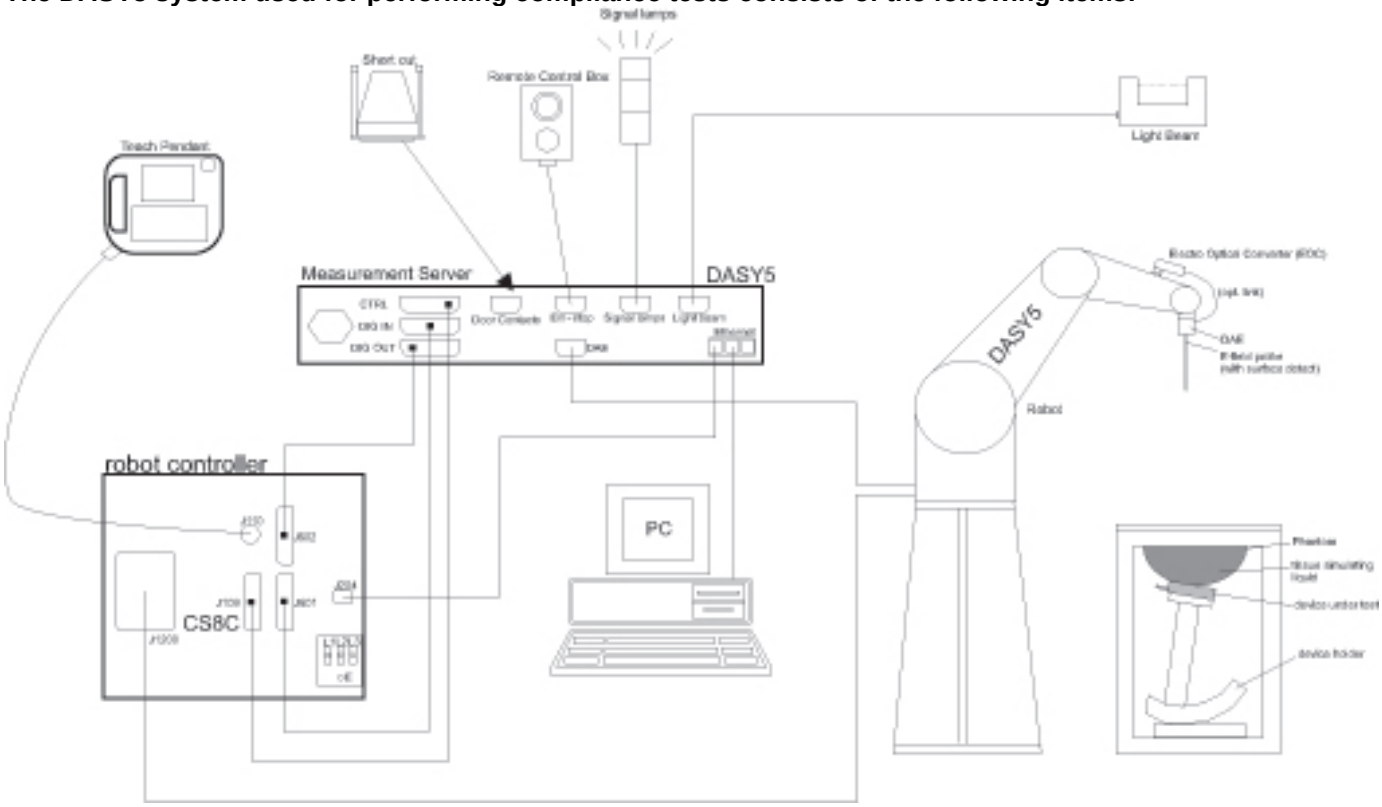
UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637.
The full scope of accreditation can be viewed at;

https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf.

4. SAR Measurement System & Test Equipment

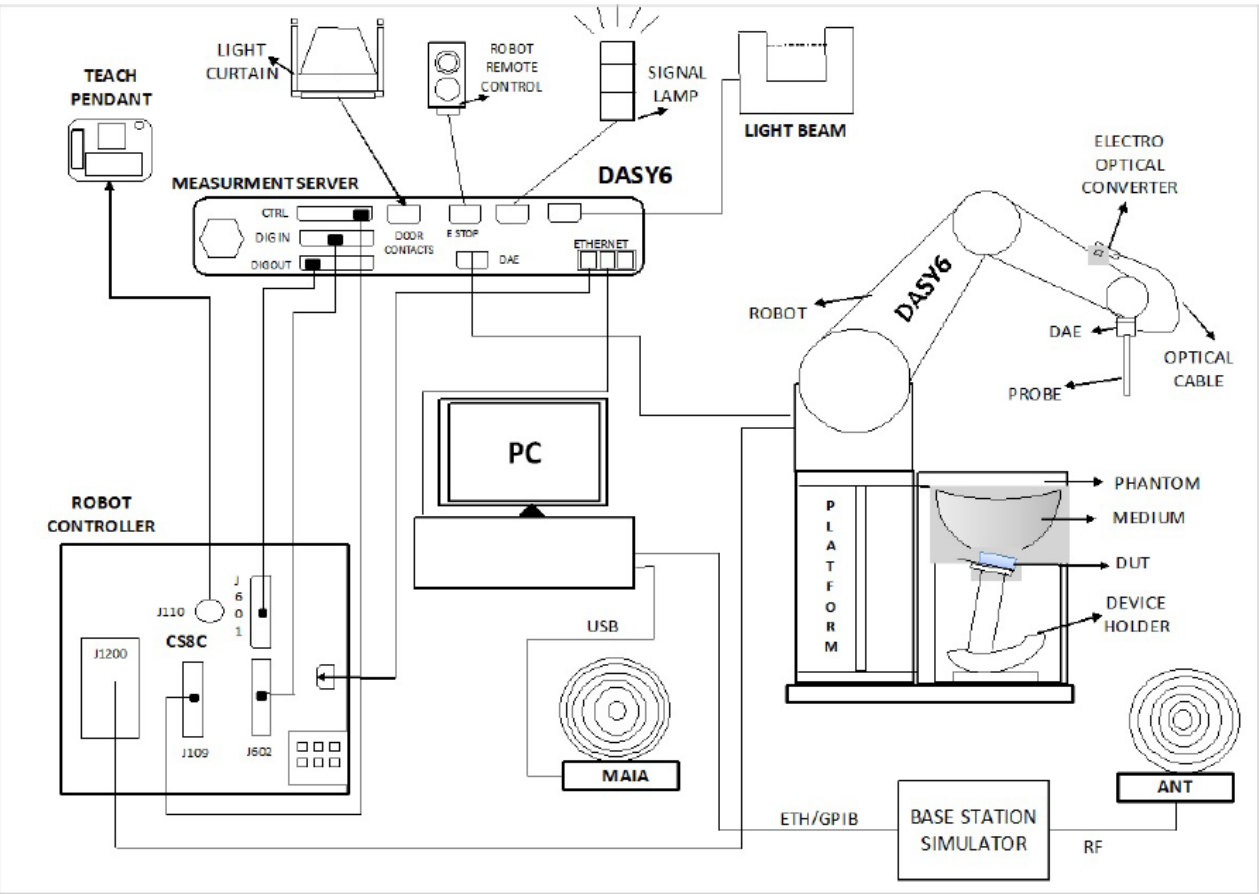
4.1. SAR Measurement System

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 Win11 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 Win11 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 1.4 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	2025-07-24
Network Analyzer	ROHDE & SCHWARZ	ZNB 20	102256	2025-07-22
Dielectric Assessment Kit	SPEAG	DAK-12	1158	2024-09-20
Dielectric Assessment Kit	SPEAG	DAK-3.5	1133	2025-02-19
Dielectric Assessment Kit	SPEAG	DAK-3.5	1134	2025-04-22
Dielectric Assessment Kit	SPEAG	DAK-3.5	1196	2025-06-10
Vector Network Analyzer	SPEAG	DAKS_VNA R140	SN0050221	2025-04-15
Vector Network Analyzer	SPEAG	DAKS_VNA R140	SN0060221	2025-03-21
Shorting block	SPEAG	DAK-3.5 Short	SMDAK 200 BA	N/A
Shorting block	SPEAG	DAK-12 Short	SMDAK 220 AD	N/A
Thermometer	LKM	DTM3000	3851	2025-07-23
Thermometer	LKM	DTM3000	3862	2025-07-23

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
MXG Analog Signal Generator	Keysight	N5181B	MY59100587	2025-07-25
MXG Analog Signal Generator	Keysight	N5173B	MY59101083	2025-07-23
Power Sensor	KEYSIGHT	U2000A	MY60490008	2025-07-23
Power Sensor	KEYSIGHT	U2000A	MY60160004	2025-07-23
Power Sensor	KEYSIGHT	U2000A	MY61010006	2025-07-23
Power Sensor	KEYSIGHT	U2000A	MY54260007	2025-07-25
Power Sensor	KEYSIGHT	U2004A USB Sensor	MY61200006	2025-01-03
Power Sensor	KEYSIGHT	U2004A USB Sensor	MY61280010	2025-01-03
Power Amplifier	EXODUS	AMP2027	1410025-AMP2027-10003	2025-02-14
Power Amplifier	MINI-CIRCUITS	TVA-R5-13A+	2111006	2025-01-03
Power Amplifier	EXODUS	AMP2027ADB	10002	2025-01-05
Power Amplifier	Sambo	BA00T60W2D	S3010-0001	2025-02-21
Directional Coupler	Aglient	772D	MY52180193	2025-07-25
Directional Coupler	H.P	778D	16133	2025-07-25
Directional Coupler	MINI-CIRCUITS	ZMDC-30-1+	SF569102123	2025-07-24
Directional Coupler	KRYTAR	100318010	215541	2025-01-04
Low Pass Filter	FILTRON	L14012FL	1410003S	2025-07-24
Low Pass Filter	MICROLAB	LA-60N	3942	2025-07-24
Low Pass Filter	MINI-CIRCUITS	VLF-6000+	S0142	2025-07-24
Low Pass Filter	MINI-CIRCUITS	VLF-3000+	S0143	2025-07-24
Low Pass Filter	MINI-CIRCUITS	NLP-1200+	VUU19301915	2025-01-04
Low Pass Filter	KRYTAR	WLKX10-11000-13640-21000-60T	1	2025-07-23
Attenuator	KEYSIGHT	8491B003	MY39272275	2025-07-23
Attenuator	KEYSIGHT	8491B/003	MY39272276	2025-07-23
Attenuator	KEYSIGHT	8491B/010	MY39271981	2025-07-24
Attenuator	KEYSIGHT	8491B/010	MY39272011	2025-07-24
Attenuator	KEYSIGHT	8491B010	MY39272293	2025-07-23
Attenuator	KEYSIGHT	8491B010	MY39272306	2025-07-24
Attenuator	KEYSIGHT	8491B020	MY39272300	2025-07-23
Attenuator	KEYSIGHT	8491B/020	MY39272302	2025-07-24
Attenuator	KEYSIGHT	8491B/020	MY39271973	2025-07-24

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.

Test Equipment (Continued)

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
E-Field Probe	SPEAG	EX3DV4	7313	2025-02-21
E-Field Probe	SPEAG	EX3DV4	7376	2025-07-17
E-Field Probe	SPEAG	EX3DV4	7314	2025-05-23
E-Field Probe	SPEAG	EX3DV4	7330	2025-01-22
E-Field Probe	SPEAG	EX3DV4	7645	2024-09-20
E-Field Probe	SPEAG	EX3DV4	7651	2025-03-18
E-Field Probe	SPEAG	EX3DV4	7646	2025-03-15
E-Field Probe	SPEAG	EX3DV4	7652	2025-04-22
Data Acquisition Electronics	SPEAG	DAE4	1494	2025-07-15
Data Acquisition Electronics	SPEAG	DAE4	1447	2025-03-13
Data Acquisition Electronics	SPEAG	DAE4	1591	2025-02-16
Data Acquisition Electronics	SPEAG	DAE4	1670	2025-05-15
Data Acquisition Electronics	SPEAG	DAE4	1671	2025-04-18
Data Acquisition Electronics	SPEAG	DAE4	1343	2025-07-12
Data Acquisition Electronics	SPEAG	DAE4	1668	2025-04-18
System Validation Dipole	SPEAG	CLA -13	1015	2025-08-22
System Validation Dipole	SPEAG	D750V3	1122	2025-02-22
System Validation Dipole	SPEAG	D835V2	4d194	2025-03-11
System Validation Dipole	SPEAG	D1750V2	1125	2024-11-30
System Validation Dipole	SPEAG	D1900V2	5d190	2024-11-16
System Validation Dipole	SPEAG	D1900V2	5d199	2025-03-13
System Validation Dipole	SPEAG	D2300V2	1115	2025-04-25
System Validation Dipole	SPEAG	D2450V2	939	2025-07-10
System Validation Dipole	SPEAG	D2450V2	960	2025-03-14
System Validation Dipole	SPEAG	D2600V2	1178	2025-04-25
System Validation Dipole	SPEAG	D3500V2	1075	2025-05-19
System Validation Dipole	SPEAG	D3700V2	1036	2025-05-19
System Validation Dipole	SPEAG	D3900V2	1069	2025-04-21
System Validation Dipole	SPEAG	D5GHzV2	1325	2025-04-21
Thermometer	Lutron	MHB-382SD	AH.50215	2025-01-04
Thermometer	Lutron	MHB-382SD	AH.50213	2025-01-04
Thermometer	Lutron	MHB-382SD	AJ.42446	2025-07-24
Thermometer	Lutron	MHB-382SD	AK.12102	2025-07-24
Thermometer	Lutron	MHB-382SD	AK.12103	2025-07-24
Thermometer	Lutron	MHB-382SD	AK.12123	2025-01-04
Thermometer	Lutron	MHB-382SD	AK.18789	2025-07-24
Thermometer	Lutron	MHB-382SD	AJ.45903	2025-01-04

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.

Others

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Base Station Simulator	R & S	CMW500	150313	2025-07-24
Base Station Simulator	R & S	CMW500	150314	2025-07-24
Base Station Simulator	R & S	CMW500	162790	2025-07-25
Base Station Simulator	R & S	CMW500	169803	2025-03-25
Base Station Simulator	R & S	CMW500	169801	2025-01-03
Base Station Simulator	R & S	CMW500	169802	2025-01-03
Base Station Simulator	R & S	CMW500	169799	2025-07-25
Base Station Simulator	R & S	CMW500	169800	2025-07-24
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY57510596	2025-07-30
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY59150850	2025-01-03
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY58120110	2025-01-03
Radio Communication Test Station	Anritsu	MT8000A	6272466165	2025-08-20
Radio Communication Analyzer	Anritsu	MT8821C	6161094351	2025-08-20

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.

Measurement Uncertainty of 9MHz to 19MHz

Measurement uncertainty for 9 MHz to 19 MHz
(According to IEEE 62209-1528)

a	b	c		d	e	f	g	h =	l =	k
Uncertainty component	Reference	Tol. 1 g (±%)	Tol. 10 g (±%)	Prob. Dist.	Div.	*ci* (1 g)	*ci* (10 g)	1 g *ui* (± %)	10 g *ui* (± %)	vi
Measurement System Errors										
Probe Calibration	8.4.1.1	13.3		Normal	2	1	1	6.7	6.7	∞
Probe Calibration Drift	8.4.1.2	1.7		Rectangular	1.732	1	1	1.0	1.0	∞
Probe Linearity	8.4.1.3	4.7		Rectangular	1.732	1	1	2.7	2.7	∞
Broadband Signal	8.4.1.4	0.8		Rectangular	1.732	1	1	0.5	0.5	∞
Probe Isotropy	8.4.1.5	7.6		Rectangular	1.732	1	1	4.4	4.4	∞
Data Acquisition	8.4.1.6	0.3		Normal	1	1	1	0.3	0.3	∞
RF Ambient	8.4.1.7	1.8		Normal	1	1	1	1.8	1.8	∞
Probe Positioning	8.4.1.8	0.006		Normal	1	0.14	0.14	0.10	0.10	∞
Data Processing	8.4.1.9	1.2		Normal	1	1	1	1.2	1.2	∞
Phantom and Device Errors										
Conductivity (meas.)DAK	8.4.2.1	2.5		Normal	1	0.78	0.71	2.0	1.8	∞
Conductivity (temp.)BB	8.4.2.2	5.4		Rectangular	1.732	0.78	0.71	2.4	2.2	∞
Phantom Permittivity	8.4.2.3	14.0		Rectangular	1.732	0	0	0.0	0.0	∞
Distance DUT -TSL	8.4.2.4	2.0		Normal	1	2	2	4.0	4.0	∞
Device Positioning	8.4.2.5	**1.0**	**2.3**	Normal	1	1	1	1.0	2.3	**40**
Device Holder	8.4.2.6	3.6		Normal	1	1	1	3.6	3.6	∞
DUT Modulation	8.4.2.7	2.4		Rectangular	1.732	1	1	1.4	1.4	∞
Time-average SAR	8.4.2.8	1.7		Rectangular	1.732	1	1	1.0	1.0	∞
DUT drift	8.4.2.9	5.0		Normal	1	1	1	5.0	5.0	∞
Correction to the SAR results										
Deviation to Target	8.4.3.1	1.9		Normal	1	1	0.84	1.9	1.6	∞
Combined Standard Uncertainty Uc(y) =				RSS				12.16	12.23	
Expanded Uncertainty U, Coverage Factor = 2, > 95 % Confidence =								**24.33**	**24.47**	

5.1. DECISION RULE

Measurement Uncertainty is not applied when providing statements of conformity in accordance with IEC Guide 115:2023, 4.3.3.

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
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	R3CX807W11K	Main Conduction	12	R3CX807W3KX	SAR
2	R3CX807W16J	Main Conduction	13	R3CX807W5AE	SAR
3	R3CX807W0ZT	Main Conduction	14	R3CX807W4KW	SAR
4	R3CX807W0TD	Main Conduction	15	R3CX807W8QZ	SAR
5	R3CX807W0WX	Main Conduction	16	R3CX807W8EV	SAR
6	R3CX807W10F	Main Conduction	17	R3CX807W3LL	SAR
7	871321c03e347ece	Main Conduction	18	R3CX807W86H	SAR
8	R3CX807W82F	WLAN/BT Conduction	19	843310CC352C7ECE	SAR
9	R3CX807W74Y	WLAN/BT Conduction	20	R3CX807WYYE	SAR
10	R3CX807W7RA	WLAN/BT Conduction	21	R3CX807WWMX	SAR
11	8618ef519f357ece	SAR	22	R3CX807W4OW	SAR

6.2. Wireless Technologies

Wireless technologies	Frequency bands	Operating mode		Duty Cycle used for SAR testing
GSM	850 1900	Voice (GMSK) GPRS (GMSK) EGPRS (8PSK)	GPRS Multi-Slot Class: ☐ Class 8 - 1 Up, 4 Down ☐ Class 10 - 2 Up, 4 Down ☒ Class 12 - 4 Up, 4 Down ☐ Class 33 - 4 Up, 5 Down	GSM Voice: 12.5% (E)GPRS: 1 Slot: 12.5% 2 Slots: 25% 3 Slots: 37.5% 4 Slots: 50%
	Does this device support DTM (Dual Transfer Mode)? ☐ Yes ☒ No			
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 Bands** 2/ 25/ 66/ 4/ 5/ 26/ 29(DL)/ 7/ 12/ 13/ 14/ 30/ 71 **TDD Bands** 41[2]/ 38/ 48	QPSK 16QAM 64QAM 256QAM Rel. 10 Carrier Aggregation (2 Uplink and 4 Downlinks) **UL CA intraband-contiguous (2CC)** 41C/ 48C		100% (FDD) 63.3% (TDD) Power Class 3 43.3% (TDD) Power Class 2
	Does this device support SV-LTE (1xRTT-LTE)? ☐ Yes ☒ No			
5G NR (Sub 6)	**FDD Bands** n25/ n2/ n5/ n29(DL)/ n30/ n66/ n70/ n71 **TDD Bands** n41[2]/ n48/ n77[2]/ n78[2]	DFT-s-ODFM: ■ π/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-ODFM: ■QPSK, 16QAM, 64QAM, 256QAM		100%
Wi-Fi	2.4 GHz	802.11b, 802.11g, 802.11n (HT20)		98.9% (802.11b-SISO)
	5 GHz	802.11a / 802.11n (HT20/40) 802.11ac (VHT20/40/80)		96.8% (802.11a SISO) 92.2% (802.11ac (VHT80-SISO)
	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		97.5%(BLE)
NFC	13.56 MHz	Type A/B/F		100%

Notes:

1. Wi-Fi & Bluetooth were tested SAR using highest duty cycle. Measured duty cycle plots are in Section.9.
2. This device supports Power Class 2(HPUE) and Power Class 3 for LTE Band 41 and NR Band n41, n77, n78.
3. This device supports UL CA intra band in LTE Band. Detail of configuration refer to Appendix G.
4. NR TDD Band n48, n77, n78 has support SRS (0,1,2,3) modes.
5. In addition to EN-DC modes 5GNR also supports inter-band uplink carrier aggregation. As this is not intra-band CA simultaneous transmission assessment is evaluated using the TAS, sum-SAR and SPLSR methods to combine the stand-alone SAR values for each individual band.

6.3. Time-Averaging feature

The equipment under test (EUT) contains S.LSI TAS supporting WWAN technologies (2G/3G/4G/5G-Sub6). TAS chipset is enabled with TAS (Time Average SAR) algorithm has been designed to meet the compliance limits over the required duration, while still allowing dynamic control of transmit power for meeting system performance. And The EUT has also supports to WLAN/BT/NFC technologies, but There are not support to TAS algorithm.

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			Head (RCV)	Bodyworn & Hotspot	Phablet 10-g SAR	Pmax (Maximum tune-up Power) (dBm)
Spatial-average			1g	1g	10g	
Test distance (mm)			0	10	0	
RSI			4	0 & 3	0	
RF Air Interface	Antenna	Antenna Group	Plimit corresponding to 1.0 W/kg (SAR_design_target) (1g) / 2.5 W/kg (SAR_design_target) (10g)			
GSM 850	A	0	23.80	23.80		23.80
GSM 1900	A	0	22.10	22.10		22.10
WCDMA Band II	A	0	24.00	21.00		24.00
WCDMA Band IV	A	0	24.00	21.00		24.00
WCDMA Band V	A	0	24.50	24.50		24.50
LTE Band 2	B	1	21.00	20.00		23.00
LTE Band 25 (2)	A	0	23.00 (22.00)	20.00		24.00 (24.50)
LTE Band 66 (4)	A	0	24.50 (24.00)	21.00		24.50 (24.00)
LTE Band 66	B	1	21.00	21.00		24.50
LTE Band 5	A	0	22.50	23.00		24.50
LTE Band 26	A	0	24.50	24.50		24.50
LTE Band 7	A	0	23.00	20.00		23.00
LTE Band 12	A	0	24.50	24.50		24.50
LTE Band 13	A	0	24.00	22.50		24.00
LTE Band 14	A	0	24.00	22.50		24.00
LTE Band 30	A	0	21.50	17.50		21.50
LTE Band 71	A	0	24.50	22.50		24.50
LTE Band 41 PC3 (38)	A	0	18.00	16.00		21.50
LTE Band 41 PC2	A	0	18.90	16.90		22.90
LTE Band 48	E	1	12.00	12.00		18.50
NR Band n2	B	1	21.00	20.00		24.00
NR Band n25 (2)	A	0	22.50	20.00		24.50
NR Band n5	A	0	24.50	24.50		24.50
NR Band n30	A	0	21.50	20.00		21.50
NR Band n41 PC3	A	0	15.00	17.00		23.50
NR Band n41 PC2	A	0	15.00	17.00		26.50
NR Band n48	E	1	14.00	14.00		21.00
NR Band n48 SRS#1	G	1	14.00	14.00		20.00
NR Band n48 SRS#2	D	1	14.00	14.00		20.00
NR Band n48 SRS#3	F	1	14.00	14.00		19.50
NR Band n66	A	0	22.50	19.00		24.50
NR Band n66	B	1	20.00	20.00		24.00
NR Band n70	A	0	24.50	20.00		24.50
NR Band n71	A	0	24.50	24.50		24.50
NR Band n77 (78) PC3	E	1	14.00 (13.00)	14.00		24.00 (23.00)
NR Band n77 (78) PC2	E	1	14.00 (13.00)	14.00		27.00 (26.00)
NR Band n77 (78) SRS1	G	1	14.00 (13.00)	14.00		21.00 (21.00/19.50)
NR Band n77 (78) SRS2	D	1	14.00 (13.00)	14.00		20.00
NR Band n77 (78) SRS3	F	1	14.00 (13.00)	14.00		19.00/18.50

Notes:

1. All *PLimit* 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 TDD modulation schemes (for e.g., GSM/LTE TDD). NR TDD's *Pmax* was listed as burst power.
2. Maximum tune up output power *Pmax* is used to configure EUT during RF tune up procedures. The maximum allowed output power is equal to maximum tune up output power + 1dB device design uncertainty.
3. Measurement Condition: All conducted power and SAR measurements in this SAR report were performed by setting static Power condition.
4. If *PLimit* is higher than *Pmax* for some modes / bands, The modes/bands will operate at a power level up to *Pmax*.
5. LTE Band 2, 25 & 4, 66 & NR Band n77, n78 has different tune-up power in RCV and Pmax.
6. NR Band n77 SRS3, n78 SRS1 and SRS3 has different tune-up power in DoD/Upper band.

6.4. Maximum Allowed Output power

WWAN Bands maximum allowed output power

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

GSM Bands

RF Air interface	Antenna	Mode	Time Slots	Maximum allowed output power (dBm)							
				Pmax		Plimit					
						RSI = 0 (Free)		RSI = 3 (Hotspot)		RSI = 4 (RCV)	
				Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GSM850	Ant.A	Voice	1	**33.50**	**24.31**	**33.50**	**24.31**	**33.50**	**24.31**	**33.50**	**24.31**
		GPRS	1	**33.50**	**24.31**	**33.50**	**24.31**	**33.50**	**24.31**	**33.50**	**24.31**
		GPRS	2	**31.00**	**24.82**	**31.00**	**24.82**	**31.00**	**24.82**	**31.00**	**24.82**
		GPRS	3	**29.00**	**24.58**	**29.00**	**24.58**	**29.00**	**24.58**	**29.00**	**24.58**
		GPRS	4	**28.00**	**24.83**	**28.00**	**24.83**	**28.00**	**24.83**	**28.00**	**24.83**
		EGPRS	1	**28.00**	**18.81**	**28.00**	**18.81**	**28.00**	**18.81**	**28.00**	**18.81**
		EGPRS	2	**26.00**	**19.82**	**26.00**	**19.82**	**26.00**	**19.82**	**26.00**	**19.82**
		EGPRS	3	**24.50**	**20.08**	**24.50**	**20.08**	**24.50**	**20.08**	**24.50**	**20.08**
		EGPRS	4	**23.50**	**20.33**	**23.50**	**20.33**	**23.50**	**20.33**	**23.50**	**20.33**
GSM1900	Ant.A	Voice	1	**31.00**	**21.81**	**31.00**	**21.81**	**31.00**	**21.81**	**31.00**	**21.81**
		GPRS	1	**31.00**	**21.81**	**31.00**	**21.81**	**31.00**	**21.81**	**31.00**	**21.81**
		GPRS	2	**29.00**	**22.82**	**29.00**	**22.82**	**29.00**	**22.82**	**29.00**	**22.82**
		GPRS	3	**27.50**	**23.08**	**27.50**	**23.08**	**27.50**	**23.08**	**27.50**	**23.08**
		GPRS	4	**25.00**	**21.83**	**25.00**	**21.83**	**25.00**	**21.83**	**25.00**	**21.83**
		EGPRS	1	**27.00**	**17.81**	**27.00**	**17.81**	**27.00**	**17.81**	**27.00**	**17.81**
		EGPRS	2	**24.00**	**17.82**	**24.00**	**17.82**	**24.00**	**17.82**	**24.00**	**17.82**
		EGPRS	3	**22.00**	**17.58**	**22.00**	**17.58**	**22.00**	**17.58**	**22.00**	**17.58**
		EGPRS	4	**22.50**	**19.33**	**22.50**	**19.33**	**22.50**	**19.33**	**22.50**	**19.33**

WCDMA Bands

RF Air interface	Antenna	Mode	Maximum allowed output power (dBm)			
			Pmax	Plimit		
				RSI = 0 (Free)	RSI = 3 (Hotspot)	RSI = 4 (RCV)
W-CDMA Band V	Ant.A	R99	**25.50**	**25.50**	**25.50**	**25.50**
		HSDPA	**23.50**	**23.50**	**23.50**	**23.50**
		HSUPA	**23.50**	**23.50**	**23.50**	**23.50**
		DC-HSDPA	**23.50**	**23.50**	**23.50**	**23.50**
W-CDMA Band VI	Ant.A	R99	**25.00**	**22.00**	**22.00**	**25.00**
		HSDPA	**23.50**	**22.00**	**22.00**	**23.50**
		HSUPA	**23.50**	**22.00**	**22.00**	**23.50**
		DC-HSDPA	**23.50**	**22.00**	**22.00**	**23.50**
W-CDMA Band II	Ant.A	R99	**25.00**	**22.00**	**22.00**	**25.00**
		HSDPA	**23.50**	**22.00**	**22.00**	**23.50**
		HSUPA	**23.50**	**22.00**	**22.00**	**23.50**
		DC-HSDPA	**23.50**	**22.00**	**22.00**	**23.50**

Note(s):

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

WWAN Bands maximum allowed output power (Continued)

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

LTE Bands

RF Air interface	Antenna	Mode	Maximum allowed output power (dBm)			
			Pmax	Plimit		
				RSI = 0 (Free)	RSI = 3 (Hotspot)	RSI = 4 (RCV)
LTE Band 25	Ant. A	QPSK	**25.00**	**21.00**	**21.00**	**24.00**
LTE Band 2	Ant. A	QPSK	**25.50**	**21.00**	**21.00**	**23.00**
LTE Band 2	Ant. B	QPSK	**24.00**	**21.00**	**21.00**	**22.00**
LTE Band 66	Ant. A	QPSK	**25.50**	**22.00**	**22.00**	**25.50**
LTE Band 4	Ant. A	QPSK	**25.00**	**22.00**	**22.00**	**25.00**
LTE Band 66	Ant. B	QPSK	**25.50**	**22.00**	**22.00**	**22.00**
LTE Band 5	Ant. A	QPSK	**25.50**	**24.00**	**24.00**	**23.50**
LTE Band 26	Ant. A	QPSK	**25.50**	**25.50**	**25.50**	**25.50**
LTE Band 7	Ant. A	QPSK	**24.00**	**21.00**	**21.00**	**24.00**
LTE Band 12	Ant. A	QPSK	**25.50**	**25.50**	**25.50**	**25.50**
LTE Band 13	Ant. A	QPSK	**25.00**	**23.50**	**23.50**	**25.00**
LTE Band 14	Ant. A	QPSK	**25.00**	**23.50**	**23.50**	**25.00**
LTE Band 30	Ant. A	QPSK	**22.50**	**18.50**	**18.50**	**22.50**
LTE Band 71	Ant. A	QPSK	**25.50**	**23.50**	**23.50**	**25.50**
LTE Band 41 PC3	Ant. A	QPSK	**24.50**	**19.00**	**19.00**	**21.00**
LTE Band 41 PC2	Ant. A	QPSK	**27.50**	**21.50**	**21.50**	**23.50**
LTE Band 38	Ant. A	QPSK	**24.00**	**19.00**	**19.00**	**19.00**
LTE Band 48	Ant. E	QPSK	**21.50**	**15.00**	**15.00**	**15.00**

Note(s):

1. Detail of RSI (Radio SAR Index) conditions, please refer to Sec.6.5.
2. LTE Band 41, 48 support UL CA intra-contiguous as same target power.

WWAN Bands maximum allowed output power (Continued)

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

NR Bands

RF Air interface	Antenna	Mode	Maximum allowed output power (dBm)			
			Pmax	Plimit		
				RSI = 0 (Free)	RSI = 3 (Hotspot)	RSI = 4 (RCV)
NR Band n25	Ant. A	DFT-s-OFDM QPSK	**25.50**	**21.00**	**21.00**	**23.50**
NR Band n2	Ant. A	DFT-s-OFDM QPSK	**25.50**	**21.00**	**21.00**	**23.50**
NR Band n2	Ant. B	DFT-s-OFDM QPSK	**25.00**	**21.00**	**21.00**	**22.00**
NR Band n5	Ant. A	DFT-s-OFDM QPSK	**25.50**	**25.50**	**25.50**	**25.50**
NR Band n30	Ant. A	DFT-s-OFDM QPSK	**22.50**	**21.00**	**21.00**	**22.50**
NR Band n41 PC3	Ant. A	DFT-s-OFDM QPSK	**24.50**	**18.00**	**18.00**	**16.00**
NR Band n41 PC2	Ant. A	DFT-s-OFDM QPSK	**27.50**	**18.00**	**18.00**	**16.00**
NR Band n48	Ant. E	DFT-s-OFDM QPSK	**22.00**	**15.00**	**15.00**	**15.00**
NR Band n48 SRS1	Ant. G	SRS CW	**21.00**	**15.00**	**15.00**	**15.00**
NR Band n48 SRS2	Ant. D	SRS CW	**21.00**	**15.00**	**15.00**	**15.00**
NR Band n48 SRS3	Ant. F	SRS CW	**20.50**	**15.00**	**15.00**	**15.00**
NR Band n66	Ant. A	DFT-s-OFDM QPSK	**25.50**	**20.00**	**20.00**	**23.50**
NR Band n66	Ant. B	DFT-s-OFDM QPSK	**25.00**	**21.00**	**21.00**	**21.00**
NR Band n70	Ant. A	DFT-s-OFDM QPSK	**25.50**	**21.00**	**21.00**	**25.50**
NR Band n71	Ant. A	DFT-s-OFDM QPSK	**25.50**	**25.50**	**25.50**	**25.50**
NR Band n77 PC3	Ant. E	DFT-s-OFDM QPSK	**25.00**	**15.00**	**15.00**	**15.00**
NR Band n77 PC2	Ant. E	DFT-s-OFDM QPSK	**28.00**	**15.00**	**15.00**	**15.00**
NR Band n77 DoD SRS1	Ant. G	SRS CW	**22.00**	**15.00**	**15.00**	**15.00**
NR Band n77 SRS1	Ant. G	SRS CW	**22.00**	**15.00**	**15.00**	**15.00**
NR Band n77 DoD SRS2	Ant. D	SRS CW	**21.00**	**15.00**	**15.00**	**15.00**
NR Band n77 SRS2	Ant. D	SRS CW	**21.00**	**15.00**	**15.00**	**15.00**
NR Band n77 DoD SRS3	Ant. F	SRS CW	**20.00**	**15.00**	**15.00**	**15.00**
NR Band n77 SRS3	Ant. F	SRS CW	**19.50**	**15.00**	**15.00**	**15.00**

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.
3. NR Band n48, n77, n78 (including SRS0/1/2/3) applied test case reduction due to same Plimit for PC2&PC3. Detail of test results refer to section.10 in report.

WWAN Bands maximum allowed output power (Continued)

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

NR Bands (Continued)

RF Air interface	Antenna	Mode	Maximum allowed output power (dBm)			
			Pmax	Plimit		
				RSI = 0 (Free)	RSI = 3 (Hotspot)	RSI = 4 (RCV)
NR Band n78 PC3	Ant. E	DFT-s-OFDM	**24.00**	**15.00**	**15.00**	**14.00**
NR Band n78 PC2	Ant. E	DFT-s-OFDM	**27.00**	**15.00**	**15.00**	**14.00**
NR Band n78 DoD SRS1	Ant. G	SRS CW	**22.00**	**15.00**	**15.00**	**14.00**
NR Band n78 SRS1	Ant. G	SRS CW	**20.50**	**15.00**	**15.00**	**14.00**
NR Band n78 DoD SRS2	Ant. D	SRS CW	**21.00**	**15.00**	**15.00**	**14.00**
NR Band n78 SRS2	Ant. D	SRS CW	**21.00**	**15.00**	**15.00**	**14.00**
NR Band n78 DoD SRS3	Ant. F	SRS CW	**20.00**	**15.00**	**15.00**	**14.00**
NR Band n78 SRS3	Ant. F	SRS CW	**19.50**	**15.00**	**15.00**	**14.00**

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.
3. NR Band n48, 77, 78 (including SRS0/1/2/3) applied test case reduction due to same Plimit for PC2&PC3. Detail of test results refer to section.10 in report.

WLAN Bands maximum allowed output power

Maximum allowed output power means that Target Power+ 1dB device uncertainty.

Maximum Power

RF Air interface	Band		Maximum allowed output power (dBm)				
			802.11 mode				
			2.4GHz SISO (Ant.D) / 5GHz SISO (Ant.D)				
			a	b	g	n	ac
WiFi 2.4 GHz	DTS	Ch 1 - 11		21.0	20.0	20.0	
		Ch12		8.0	8.0	8.0	
		Ch 13		6.0	6.0	6.0	
WiFi 5 GHz (BW : 20MHz)	UNII-1		16.0			16.0	16.0
	UNII-2A		16.0			16.0	16.0
	UNII-2C		15.0			15.0	15.0
	UNII-3		16.0			16.0	16.0
WiFi 5 GHz (BW : 40MHz)	UNII-1					15.0	15.0
	UNII-2A					15.0	15.0
	UNII-2C					14.0	14.0
	UNII-3					15.0	15.0
WiFi 5 GHz (BW : 80MHz)	UNII-1						14.0
	UNII-2A						14.0
	UNII-2C						13.0
	UNII-3						14.0

Reduced Power

RF Air interface	Band		Maximum allowed output power (dBm)				
			802.11 mode				
			2.4GHz SISO (Ant.D) / 5GHz SISO (Ant.D)				
			a	b	g	n	ac
WiFi 2.4 GHz	DTS	Ch 1 - 11		12.0	12.0	12.0	
		Ch12		8.0	8.0	8.0	
		Ch 13		6.0	6.0	6.0	
WiFi 5 GHz (BW : 20MHz)	UNII-1		11.0			11.0	11.0
	UNII-2A		11.0			11.0	11.0
	UNII-2C		11.0			11.0	11.0
	UNII-3		11.0			11.0	11.0
WiFi 5 GHz (BW : 40MHz)	UNII-1					11.0	11.0
	UNII-2A					11.0	11.0
	UNII-2C					11.0	11.0
	UNII-3					11.0	11.0
WiFi 5 GHz (BW : 80MHz)	UNII-1						11.0
	UNII-2A						11.0
	UNII-2C						11.0
	UNII-3						11.0

Note(s):

WLAN has supported to reduced power during RCV active.

BT(Bluetooth) Max power

RF Air interface	Max. Output Power (dBm)
	Ant.D
Bluetooth (BDR) (1Mbps)	12.0
Bluetooth (EDR)	8.0
Bluetooth LE (2M)	12.0
Bluetooth LE (1Mbps, 125/500kbps)	12.0

6.5. RSI (Radio SAR Index) Scenarios

RSI (Radio SAR Index) Scenarios in WWAN Bands

RF exposure Conditions	Technologuies Supported	RSI conditions	Description
Head	All WWAN bands	4 (RCV)	1. Device positioned next to head. 2. Receiver Active.
Body-worn	All WWAN bands	0 (Free)	1. Device being used with a body-worn accessory.
Hotspot	All WWAN bands	3 (Hotspot)	1. Device transmits in hotspot mode near body. 2. Hotspot Mode Active.
Phablet-10g	All WWAN bands	0 (Free)	1. Device is held with hand.

Note(s):

RSI Scenarios priority: RCV → Hotspot → Free

6.6. General LTE SAR Test and Reporting Considerations

Item	Description						
Frequency range, Channel Bandwidth, Numbers and Frequencues	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 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 66	Frequency range: 1710 - 1780 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	132072/ 1720	132047/ 1717.5	132022/ 1715	131997/ 1712.5	131987/ 1711.5	131979/ 1710.7
	Mid	132322/ 1745	132322/ 1745	132322/ 1745	132322/ 1745	132322/ 1745	132322/ 1745
	High	132572/ 1770	132597/ 1772.5	132622/ 1775	132647/ 1777.5	132657/ 1778.5	132665/ 1779.3
	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 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
	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		

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).

General LTE SAR Test and Reporting Considerations (Continued)

Item	Description						
Frequency range, Channel Bandwidth, Numbers and Frequencues	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 30	Frequency range: 2305 - 2315 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low				27685/ 2307.5		
	Mid			27710/ 2310	27710/ 2310		
	High				27735/ 2312.5		
	Band 71	Frequency range: 663 - 698 MHz					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	133222/ 673	133197/ 670.5	133172/ 668	133147/ 665.5		
	Mid	133297/ 680.5	133297/ 680.5	133297/ 680.5	133297/ 680.5		
	High	133372/ 688	133397/ 690.5	133422/ 693	133447/ 695.5		

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).

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 Frequencues</td><td>
<table>
<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 38</td><td colspan="6">Frequency range: 2570 - 2620 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>37850/
2580</td><td>37825/
2577.5</td><td>37800/
2575</td><td>37775/
2572.5</td><td></td><td></td></tr>
<tr><td>Mid</td><td>38000/
2595</td><td>38000/
2595</td><td>38000/
2595</td><td>38000/
2595</td><td></td><td></td></tr>
<tr><td>High</td><td>38150/
2610</td><td>38175/
2612.5</td><td>38200/
2615</td><td>38225/
2617.5</td><td></td><td></td></tr>
<tr><td rowspan="3">Band 48</td><td colspan="6">Frequency range: 3550 - 3700 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>55340/
3560</td><td>55315/
3557.5</td><td>55290/
3555</td><td>55265/
3552.5</td><td></td><td></td></tr>
<tr><td>Mid</td><td>55990/
3625</td><td>55990/
3625</td><td>55990/
3625</td><td>55990/
3625</td><td></td><td></td></tr>
<tr><td>High</td><td>56640/
3690</td><td>56665/
3692.5</td><td>56690/
3695</td><td>56715/
3697.5</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.
1. LTE Band 41 test channels in accordance with October 2014 TCB workshop for all channels bandwidths.
2. 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 in power class 3. Only LTE Band 41 $_{\text{Power class 2}}$ was used configuration 1 at 43.3% duty cycle for SAR Testing

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

Item	Description													
Frequency range, Channel Bandwidth, Numbers and Frequencues	Band n25	Frequency range: 1850 - 1915 MHz												
		Channel Bandwidth												
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
	Low							37400/ 1870	373500/ 1867.5	373000/ 1865	372500/ 1862.5	372000/ 1860	371500/ 1857.5	371000/ 1855	370500/ 1852.5
	Mid							376500/ 1882.5	376500/ 1882.5	376500/ 1882.5	376500/ 1882.5	376500/ 1882.5	376500/ 1882.5	376500/ 1882.5	376500/ 1882.5
	High							379000/ 1895	379500/ 1897.5	380000/ 1900	380500/ 1902.5	381000/ 1905	381500/ 1907.5	382000/ 1910	382500/ 1912.5
	Band n2	Frequency range: 1850 - 1910 MHz												
		Channel Bandwidth												
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
	Low							374000/ 1870	373500/ 1867.5	373000/ 1865	372500/ 1862.5	372000/ 1860	371500/ 1857.5	371000/ 1855	370500/ 1852.5
	Mid							376000/ 1880	376000/ 1880	376000/ 1880	376000/ 1880	376000/ 1880	376000/ 1880	376000/ 1880	376000/ 1880
	High							378000/ 1890	378500/ 1892.5	379000/ 1895	379500 1897.5	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	35 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 n30	Frequency range: 2305 - 2315 MHz												
		Channel Bandwidth												
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 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	35 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 n48	Frequency range: 3550 - 3700 MHz												
		Channel Bandwidth												
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
	Low							638000/ 3570		637668/ 3565.02		637334/ 3560.01	637168/ 3557.52	637000/ 3555	
	Low-Mid									640334/ 3605.01		640222/ 3603.33	640166/ 3602.49	640110/ 3601.65	
	Mid							641666/ 3624.99							
	Mid-High									643000/ 3645		643112/ 3646.68	643166/ 3647.49	643222/ 3648.33	
	High							645332/ 3679.98		645666/ 3684.99		646000/ 3690	646166/ 3692.49	646332/ 3694.98	
	Band n66	Frequency range: 1710 - 1780 MHz												
		Channel Bandwidth												
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 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
	Band n70	Frequency range: 1695 - 1710 MHz												
		Channel Bandwidth												
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
	Low														340000/ 1700
	Mid												340500 1702.5	340500 1702.5	
	High														341000/ 1705
	Band n71	Frequency range: 663 - 698 MHz												
		Channel Bandwidth												
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 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

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.

NR (Sub 6GHz) SAR Test and Reporting Considerations (Continued)

Item	Description													
Frequency range, Channel Bandwidth, Numbers and Frequencues	Band n77 -DoD-	Frequency range: 3450 - 3550 MHz												
		Channel Bandwidth												
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 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	Frequency range: 3700 - 3980 MHz												
		Channel Bandwidth												
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 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	
	Band n78 -DoD-	Frequency range: 3450 - 3550 MHz												
		Channel Bandwidth												
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 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 n78	Frequency range: 3700 - 3800 MHz												
		Channel Bandwidth												
		100 MHz	90 MHz	80 MHz	70 MHz	60 MHz	50 MHz	40 MHz	35 MHz	30 MHz	25 MHz	20 MHz	15 MHz	10 MHz	5 MHz
	Low						648334/ 3725.01	647800/ 3720		647666/ 3715	647500/ 3712.5	647334/ 3710.01	647166/ 3707.5	647000/ 3705	
	Mid	650000/ 3750	650000/ 3750	650000/ 3750	650000/ 3750	650000/ 3750				650000/ 3750	650000/ 3750	650000/ 3750	650000/ 3750	650000/ 3750	
	High						651666/ 3774.99	652000/ 3780		652332/ 3784.98	652500/ 3787.5	652666/ 3789.99	652832/ 3792.48	653000/ 3795	
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 B5/12/13/14/30/48/66														
LTE Anchor Bands for NR Band n5	LTE B2/7/30/48														
LTE Anchor Bands for NR Band n25	LTE B12/66														
LTE Anchor Bands for NR Band n30	N/A														
LTE Anchor Bands for NR Band n41	LTE B2/12/66														
LTE Anchor Bands for NR Band n48	LTE B2/66														
LTE Anchor Bands for NR Band n66	LTE B2/5/7/12/13/14/30/48														
LTE Anchor Bands for NR Band n71	LTE B2/48/66														
LTE Anchor Bands for NR Band n77	LTE B2/5/7/12/13/14/30/48/66/71														
LTE Anchor Bands for NR Band n78	LTE B2/5/7/38/40/41/66														

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.

Wireless technologies	RF Exposure Conditions	Antenaa	DUT-to-User Separation	Test Positions			
				Right Touch	Right Tilt	Left Touch	Left Tilt
WWAN & WLAN/BT	Head	All WWAN/WLAN/BT Antennas (Ant.A/B/C/D/F)	0 mm	**Yes**	**Yes**	**Yes**	**Yes**

Wireless technologies	RF Exposure Conditions	Antenaa	DUT-to-User Separation	Test Positions					
				Rear	Front	Top	Left	Bottom	Right
WWAN	Body-worn & Hotspot	Ant.A	10 mm	**Yes**	**Yes**	**No**	**Yes**	**Yes**	**Yes**
		Ant.B	10 mm	**Yes**	**Yes**	**No**	**Yes**	**No**	**No**
		Ant.D	10 mm	**Yes**	**Yes**	**Yes**	**Yes**	**No**	**No**
		Ant.E	10 mm	**Yes**	**Yes**	**Yes**	**Yes**	**No**	**No**
		Ant.F	10 mm	**Yes**	**Yes**	**Yes**	**No**	**No**	**Yes**
		Ant.G	10 mm	**Yes**	**Yes**	**Yes**	**No**	**No**	**No**
	Product Specific 10-g	All WWAN Antennas (Ant.A/B/C/F)	0 mm	**Refer to note 2 & 3.**					
WLAN/BT	Body-worn & Hotspot	All WLAN/BT Antennas (Ant.D)	10 mm	**Yes**	**Yes**	**Yes**	**Yes**	**No**	**No**
	Product Specific 10-g	All WLAN/BT Antennas (Ant.D)	0 mm	**Refer to note 2 and 4.**					
NFC	Product Specific 10-g	NFC Ant.	0 mm	**Yes**	**Yes**	**Yes**	**Yes**	**No**	**No**

Notes:

1. For Hotspot exposure condition, SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hot Spot SAR.
2. For Phablet devices: When hotspot mode applies, Product specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.
3. For Phablet devices: When hotspot mode applies and power reduction applies to hotspot mode, Product specific 10-g SAR is required for each test position that has and adjusted SAR to maximum power that is > 1.2 W/kg.
4. For Phablet devices: When hotspot mode is not supported, Product specific 10-g 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.
5. Per manufacturer guide, NFC SAR was considered about only hand held condition (Product Specific 10-g).
6. For Body-worn exposure condition, SAR test is considered for Rear and Front test positions.
7. For Head exposure condition, All WWAN/WLAN/BT Antennas are required Head SAR test.

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 (9MHz to 19MHz). 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	
	ε_r	σ (S/m)
150	52.3	0.76
300	45.3	0.87
450	43.5	0.87
835	41.5	0.90
900	41.5	0.97
915	41.5	0.98
1450	40.5	1.20
1610	40.3	1.29
1800 – 2000	40.0	1.40
2450	39.2	1.80
3000	38.5	2.40
5000	36.2	4.45
5100	36.1	4.55
5200	36.0	4.66
5300	35.9	4.76
5400	35.8	4.86
5500	35.6	4.96
5600	35.5	5.07
5700	35.4	5.17
5800	35.3	5.27
6000	35.1	5.48

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

2. Tissue Dielectric Parameters (9MHz to 19MHz)

Target Frequency (MHz)	Head	
	ε_r	σ (S/m)
9	55.0	0.75
13	55.0	0.75
19	55.0	0.75

IEC_IEEE Std 62209-1528 : 2020
Refer to Table 2 within the IEC_IEEE Std 62209-1528 : 2020.

Dielectric Property Measurements Results:

SAR 2 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2024-08-26	Head 1900	e'	40.7800	Relative Permittivity (ϵ_r):	40.78	40.00	1.95	5
		e"	13.3000	Conductivity (σ):	1.41	1.40	0.36	5
	Head 1850	e'	40.7900	Relative Permittivity (ϵ_r):	40.79	40.00	1.98	5
		e"	13.3900	Conductivity (σ):	1.38	1.40	-1.62	5
	Head 1915	e'	40.7700	Relative Permittivity (ϵ_r):	40.77	40.00	1.93	5
		e"	13.2900	Conductivity (σ):	1.42	1.40	1.08	5
2024-08-30	Head 1900	e'	40.5100	Relative Permittivity (ϵ_r):	40.51	40.00	1.28	5
		e"	13.4800	Conductivity (σ):	1.42	1.40	1.72	5
	Head 1850	e'	40.5400	Relative Permittivity (ϵ_r):	40.54	40.00	1.35	5
		e"	13.5800	Conductivity (σ):	1.40	1.40	-0.22	5
	Head 1915	e'	40.5000	Relative Permittivity (ϵ_r):	40.50	40.00	1.25	5
		e"	13.4600	Conductivity (σ):	1.43	1.40	2.37	5
2024-09-03	Head 1750	e'	39.7100	Relative Permittivity (ϵ_r):	39.71	40.08	-0.93	5
		e"	14.0800	Conductivity (σ):	1.37	1.37	0.08	5
	Head 1680	e'	39.9000	Relative Permittivity (ϵ_r):	39.90	40.19	-0.73	5
		e"	14.2300	Conductivity (σ):	1.33	1.33	-0.02	5
	Head 1780	e'	39.6500	Relative Permittivity (ϵ_r):	39.65	40.04	-0.97	5
		e"	13.9900	Conductivity (σ):	1.38	1.39	-0.09	5
2024-09-03	Head 1900	e'	39.5700	Relative Permittivity (ϵ_r):	39.57	40.00	-1.08	5
		e"	13.7000	Conductivity (σ):	1.45	1.40	3.38	5
	Head 1850	e'	39.5700	Relative Permittivity (ϵ_r):	39.57	40.00	-1.08	5
		e"	13.7800	Conductivity (σ):	1.42	1.40	1.25	5
	Head 1915	e'	39.5700	Relative Permittivity (ϵ_r):	39.57	40.00	-1.08	5
		e"	13.6900	Conductivity (σ):	1.46	1.40	4.12	5
2024-09-10	Head 1900	e'	39.1600	Relative Permittivity (ϵ_r):	39.16	40.00	-2.10	5
		e"	13.2300	Conductivity (σ):	1.40	1.40	-0.16	5
	Head 1850	e'	39.1600	Relative Permittivity (ϵ_r):	39.16	40.00	-2.10	5
		e"	13.3500	Conductivity (σ):	1.37	1.40	-1.91	5
	Head 1915	e'	39.1500	Relative Permittivity (ϵ_r):	39.15	40.00	-2.13	5
		e"	13.2100	Conductivity (σ):	1.41	1.40	0.47	5

SAR 3 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2024-08-26	Head 1900	e'	41.1200	Relative Permittivity (ϵ_r):	41.12	40.00	2.80	5
		e"	13.3600	Conductivity (σ):	1.41	1.40	0.82	5
	Head 1850	e'	41.1900	Relative Permittivity (ϵ_r):	41.19	40.00	2.97	5
		e"	13.4400	Conductivity (σ):	1.38	1.40	-1.25	5
	Head 1915	e'	41.1000	Relative Permittivity (ϵ_r):	41.10	40.00	2.75	5
		e"	13.3400	Conductivity (σ):	1.42	1.40	1.46	5
2024-08-26	Head 1750	e'	41.3100	Relative Permittivity (ϵ_r):	41.31	40.08	3.06	5
		e"	13.6900	Conductivity (σ):	1.33	1.37	-2.69	5
	Head 1710	e'	41.4100	Relative Permittivity (ϵ_r):	41.41	40.15	3.15	5
		e"	13.8000	Conductivity (σ):	1.31	1.35	-2.55	5
	Head 1780	e'	41.2600	Relative Permittivity (ϵ_r):	41.26	40.04	3.05	5
		e"	13.6000	Conductivity (σ):	1.35	1.39	-2.88	5
2024-08-30	Head 1750	e'	39.8200	Relative Permittivity (ϵ_r):	39.82	40.08	-0.66	5
		e"	13.8700	Conductivity (σ):	1.35	1.37	-1.41	5
	Head 1710	e'	39.9300	Relative Permittivity (ϵ_r):	39.93	40.15	-0.54	5
		e"	13.9700	Conductivity (σ):	1.33	1.35	-1.35	5
	Head 1780	e'	39.7500	Relative Permittivity (ϵ_r):	39.75	40.04	-0.72	5
		e"	13.7800	Conductivity (σ):	1.36	1.39	-1.59	5
2024-09-03	Head 1750	e'	41.2700	Relative Permittivity (ϵ_r):	41.27	40.08	2.96	5
		e"	14.2900	Conductivity (σ):	1.39	1.37	1.57	5
	Head 1710	e'	41.3700	Relative Permittivity (ϵ_r):	41.37	40.15	3.05	5
		e"	14.3900	Conductivity (σ):	1.37	1.35	1.62	5
	Head 1780	e'	41.2100	Relative Permittivity (ϵ_r):	41.21	40.04	2.93	5
		e"	14.2000	Conductivity (σ):	1.41	1.39	1.41	5
2024-09-09	Head 1750	e'	41.1500	Relative Permittivity (ϵ_r):	41.15	40.08	2.66	5
		e"	14.4200	Conductivity (σ):	1.40	1.37	2.50	5
	Head 1710	e'	41.2500	Relative Permittivity (ϵ_r):	41.25	40.15	2.75	5
		e"	14.5200	Conductivity (σ):	1.38	1.35	2.54	5
	Head 1780	e'	41.0900	Relative Permittivity (ϵ_r):	41.09	40.04	2.63	5
		e"	14.3400	Conductivity (σ):	1.42	1.39	2.41	5
2024-09-13	Head 1750	e'	41.0300	Relative Permittivity (ϵ_r):	41.03	40.08	2.36	5
		e"	14.4500	Conductivity (σ):	1.41	1.37	2.71	5
	Head 1710	e'	41.1300	Relative Permittivity (ϵ_r):	41.13	40.15	2.45	5
		e"	14.5400	Conductivity (σ):	1.38	1.35	2.68	5
	Head 1780	e'	40.9800	Relative Permittivity (ϵ_r):	40.98	40.04	2.35	5
		e"	14.3600	Conductivity (σ):	1.42	1.39	2.55	5

SAR 4 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2024-08-26	Head 2450	e'	39.8900	Relative Permittivity (ϵ_r):	39.89	39.20	1.76	5
		e"	13.3900	Conductivity (σ):	1.82	1.80	1.34	5
	Head 2400	e'	40.0200	Relative Permittivity (ϵ_r):	40.02	39.30	1.84	5
		e"	13.3200	Conductivity (σ):	1.78	1.75	1.48	5
	Head 2500	e'	39.8100	Relative Permittivity (ϵ_r):	39.81	39.14	1.72	5
		e"	13.3100	Conductivity (σ):	1.85	1.85	-0.21	5
2024-08-27	Head 835	e'	42.0800	Relative Permittivity (ϵ_r):	42.08	41.50	1.40	5
		e"	19.1200	Conductivity (σ):	0.89	0.90	-1.37	5
	Head 810	e'	42.0300	Relative Permittivity (ϵ_r):	42.03	41.65	0.90	5
		e"	19.5500	Conductivity (σ):	0.88	0.90	-1.91	5
	Head 850	e'	42.1100	Relative Permittivity (ϵ_r):	42.11	41.50	1.47	5
		e"	18.8700	Conductivity (σ):	0.89	0.92	-2.53	5
2024-09-02	Head 835	e'	40.5500	Relative Permittivity (ϵ_r):	40.55	41.50	-2.29	5
		e"	18.9200	Conductivity (σ):	0.88	0.90	-2.40	5
	Head 810	e'	40.6200	Relative Permittivity (ϵ_r):	40.62	41.65	-2.48	5
		e"	19.3600	Conductivity (σ):	0.87	0.90	-2.87	5
	Head 850	e'	40.5300	Relative Permittivity (ϵ_r):	40.53	41.50	-2.34	5
		e"	18.6800	Conductivity (σ):	0.88	0.92	-3.51	5
2024-09-05	Head 750	e'	42.6400	Relative Permittivity (ϵ_r):	42.64	41.96	1.62	5
		e"	21.1000	Conductivity (σ):	0.88	0.89	-1.47	5
	Head 660	e'	42.8500	Relative Permittivity (ϵ_r):	42.85	42.42	1.01	5
		e"	23.1900	Conductivity (σ):	0.85	0.89	-3.96	5
	Head 800	e'	42.5300	Relative Permittivity (ϵ_r):	42.53	41.71	1.98	5
		e"	20.1400	Conductivity (σ):	0.90	0.90	-0.12	5
2024-09-05	Head 835	e'	42.4700	Relative Permittivity (ϵ_r):	42.47	41.50	2.34	5
		e"	19.5400	Conductivity (σ):	0.91	0.90	0.80	5
	Head 810	e'	42.5200	Relative Permittivity (ϵ_r):	42.52	41.65	2.08	5
		e"	19.9600	Conductivity (σ):	0.90	0.90	0.14	5
	Head 850	e'	42.4400	Relative Permittivity (ϵ_r):	42.44	41.50	2.27	5
		e"	19.3100	Conductivity (σ):	0.91	0.92	-0.26	5
2024-09-09	Head 750	e'	42.2100	Relative Permittivity (ϵ_r):	42.21	41.96	0.59	5
		e"	21.2900	Conductivity (σ):	0.89	0.89	-0.59	5
	Head 660	e'	42.4800	Relative Permittivity (ϵ_r):	42.48	42.42	0.13	5
		e"	23.1800	Conductivity (σ):	0.85	0.89	-4.01	5
	Head 800	e'	42.0700	Relative Permittivity (ϵ_r):	42.07	41.71	0.87	5
		e"	20.4000	Conductivity (σ):	0.91	0.90	1.17	5
2024-09-19	Head 750	e'	43.0100	Relative Permittivity (ϵ_r):	43.01	41.96	2.50	5
		e"	21.3200	Conductivity (σ):	0.89	0.89	-0.45	5
	Head 660	e'	43.3200	Relative Permittivity (ϵ_r):	43.32	42.42	2.11	5
		e"	23.8300	Conductivity (σ):	0.87	0.89	-1.31	5
	Head 800	e'	42.8500	Relative Permittivity (ϵ_r):	42.85	41.71	2.75	5
		e"	20.1900	Conductivity (σ):	0.90	0.90	0.13	5
2024-09-19	Head 835	e'	42.7200	Relative Permittivity (ϵ_r):	42.72	41.50	2.94	5
		e"	19.4700	Conductivity (σ):	0.90	0.90	0.44	5
	Head 810	e'	42.8100	Relative Permittivity (ϵ_r):	42.81	41.65	2.78	5
		e"	19.8000	Conductivity (σ):	0.89	0.90	-0.66	5
	Head 850	e'	42.6800	Relative Permittivity (ϵ_r):	42.68	41.50	2.84	5
		e"	19.1800	Conductivity (σ):	0.91	0.92	-0.93	5
2024-09-24	Head 750	e'	42.3900	Relative Permittivity (ϵ_r):	42.39	41.96	1.02	5
		e"	20.8100	Conductivity (σ):	0.87	0.89	-2.83	5
	Head 660	e'	42.5700	Relative Permittivity (ϵ_r):	42.57	42.42	0.35	5
		e"	23.0400	Conductivity (σ):	0.85	0.89	-4.59	5
	Head 800	e'	42.3000	Relative Permittivity (ϵ_r):	42.30	41.71	1.43	5
		e"	19.9200	Conductivity (σ):	0.89	0.90	-1.21	5

SAR 5 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2024-09-03	Head 2450	e'	40.8500	Relative Permittivity (ε_r):	40.85	39.20	4.21	5
		e''	13.7100	Conductivity (σ):	1.87	1.80	3.76	5
	Head 2400	e'	40.9300	Relative Permittivity (ε_r):	40.93	39.30	4.16	5
		e''	13.7100	Conductivity (σ):	1.83	1.75	4.45	5
	Head 2500	e'	40.7800	Relative Permittivity (ε_r):	40.78	39.14	4.20	5
		e''	13.7300	Conductivity (σ):	1.91	1.85	2.94	5
2024-09-04	Head 5200	e'	36.3700	Relative Permittivity (ε_r):	36.37	35.99	1.06	5
		e''	15.8000	Conductivity (σ):	4.57	4.65	-1.78	5
	Head 5250	e'	36.2800	Relative Permittivity (ε_r):	36.28	35.93	0.97	5
		e''	15.8600	Conductivity (σ):	4.63	4.70	-1.54	5
	Head 5600	e'	35.7400	Relative Permittivity (ε_r):	35.74	35.53	0.58	5
		e''	16.0900	Conductivity (σ):	5.01	5.06	-0.99	5
	Head 5750	e'	35.4700	Relative Permittivity (ε_r):	35.47	35.36	0.30	5
		e''	16.1700	Conductivity (σ):	5.17	5.21	-0.84	5
	Head 5800	e'	35.4400	Relative Permittivity (ε_r):	35.44	35.30	0.40	5
		e''	16.2400	Conductivity (σ):	5.24	5.27	-0.62	5
	Head 5925	e'	35.2200	Relative Permittivity (ε_r):	35.22	35.20	0.06	5
		e''	16.2900	Conductivity (σ):	5.37	5.40	-0.62	5
2024-09-06	Head 750	e'	42.6000	Relative Permittivity (ε_r):	42.60	41.96	1.52	5
		e''	21.2100	Conductivity (σ):	0.88	0.89	-0.96	5
	Head 660	e'	42.8900	Relative Permittivity (ε_r):	42.89	42.42	1.10	5
		e''	23.3600	Conductivity (σ):	0.86	0.89	-3.26	5
	Head 800	e'	42.5200	Relative Permittivity (ε_r):	42.52	41.71	1.95	5
		e''	20.3100	Conductivity (σ):	0.90	0.90	0.73	5
2024-09-10	Head 5200	e'	36.5300	Relative Permittivity (ε_r):	36.53	35.99	1.50	5
		e''	15.9400	Conductivity (σ):	4.61	4.65	-0.91	5
	Head 5250	e'	36.4700	Relative Permittivity (ε_r):	36.47	35.93	1.49	5
		e''	16.0300	Conductivity (σ):	4.68	4.70	-0.48	5
	Head 5600	e'	36.0300	Relative Permittivity (ε_r):	36.03	35.53	1.40	5
		e''	16.4000	Conductivity (σ):	5.11	5.06	0.92	5
	Head 5750	e'	35.7200	Relative Permittivity (ε_r):	35.72	35.36	1.01	5
		e''	16.4000	Conductivity (σ):	5.24	5.21	0.57	5
	Head 5800	e'	35.6000	Relative Permittivity (ε_r):	35.60	35.30	0.85	5
		e''	16.4000	Conductivity (σ):	5.29	5.27	0.36	5
	Head 5925	e'	35.2600	Relative Permittivity (ε_r):	35.26	35.20	0.17	5
		e''	16.4600	Conductivity (σ):	5.42	5.40	0.42	5
2024-09-19	Head 2450	e'	37.4600	Relative Permittivity (ε_r):	37.46	39.20	-4.44	5
		e''	13.5300	Conductivity (σ):	1.84	1.80	2.40	5
	Head 2400	e'	37.7500	Relative Permittivity (ε_r):	37.75	39.30	-3.94	5
		e''	13.7000	Conductivity (σ):	1.83	1.75	4.37	5
	Head 2500	e'	37.5400	Relative Permittivity (ε_r):	37.54	39.14	-4.08	5
		e''	13.7100	Conductivity (σ):	1.91	1.85	2.79	5
2024-09-19	Head 5200	e'	35.1200	Relative Permittivity (ε_r):	35.12	35.99	-2.42	5
		e''	16.1800	Conductivity (σ):	4.68	4.65	0.59	5
	Head 5250	e'	35.0200	Relative Permittivity (ε_r):	35.02	35.93	-2.54	5
		e''	16.2200	Conductivity (σ):	4.73	4.70	0.70	5
	Head 5600	e'	34.5600	Relative Permittivity (ε_r):	34.56	35.53	-2.74	5
		e''	16.4900	Conductivity (σ):	5.13	5.06	1.47	5
	Head 5750	e'	34.0900	Relative Permittivity (ε_r):	34.09	35.36	-3.60	5
		e''	16.6700	Conductivity (σ):	5.33	5.21	2.22	5
	Head 5800	e'	34.0600	Relative Permittivity (ε_r):	34.06	35.30	-3.51	5
		e''	16.6700	Conductivity (σ):	5.38	5.27	2.01	5
	Head 5925	e'	33.8100	Relative Permittivity (ε_r):	33.81	35.20	-3.95	5
		e''	16.7300	Conductivity (σ):	5.51	5.40	2.07	5
2024-09-23	Head 5200	e'	35.9900	Relative Permittivity (ε_r):	35.99	35.99	0.00	5
		e''	15.6600	Conductivity (σ):	4.53	4.65	-2.65	5
	Head 5250	e'	35.8900	Relative Permittivity (ε_r):	35.89	35.93	-0.12	5
		e''	15.7000	Conductivity (σ):	4.58	4.70	-2.53	5
	Head 5600	e'	35.2300	Relative Permittivity (ε_r):	35.23	35.53	-0.86	5
		e''	15.9800	Conductivity (σ):	4.98	5.06	-1.67	5
	Head 5750	e'	34.9200	Relative Permittivity (ε_r):	34.92	35.36	-1.25	5
		e''	16.0700	Conductivity (σ):	5.14	5.21	-1.45	5
	Head 5800	e'	34.8300	Relative Permittivity (ε_r):	34.83	35.30	-1.33	5
		e''	16.1500	Conductivity (σ):	5.21	5.27	-1.17	5
	Head 5925	e'	34.6400	Relative Permittivity (ε_r):	34.64	35.20	-1.59	5
		e''	16.2500	Conductivity (σ):	5.35	5.40	-0.86	5

SAR 7 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2024-08-26	Head 2600	e'	38.3900	Relative Permittivity (ϵ_r):	38.39	39.01	-1.59	5
		e"	13.3100	Conductivity (σ):	1.92	1.96	-1.93	5
	Head 2495	e'	38.6800	Relative Permittivity (ϵ_r):	38.68	39.14	-1.18	5
		e"	13.1700	Conductivity (σ):	1.83	1.85	-1.17	5
	Head 2700	e'	38.1200	Relative Permittivity (ϵ_r):	38.12	38.88	-1.97	5
		e"	13.3400	Conductivity (σ):	2.00	2.07	-3.26	5
2024-08-29	Head 2600	e'	40.1700	Relative Permittivity (ϵ_r):	40.17	39.01	2.97	5
		e"	13.2800	Conductivity (σ):	1.92	1.96	-2.16	5
	Head 2495	e'	40.3400	Relative Permittivity (ϵ_r):	40.34	39.14	3.06	5
		e"	13.0500	Conductivity (σ):	1.81	1.85	-2.07	5
	Head 2700	e'	39.8500	Relative Permittivity (ϵ_r):	39.85	38.88	2.48	5
		e"	13.3200	Conductivity (σ):	2.00	2.07	-3.41	5
2024-08-29	head 2250	e'	40.7000	Relative Permittivity (ϵ_r):	40.70	39.56	2.88	5
		e"	12.7500	Conductivity (σ):	1.60	1.62	-1.52	5
	head 2300	e'	40.5900	Relative Permittivity (ϵ_r):	40.59	39.47	2.83	5
		e"	12.7300	Conductivity (σ):	1.63	1.66	-2.15	5
	head 2350	e'	40.5100	Relative Permittivity (ϵ_r):	40.51	39.38	2.86	5
		e"	12.7800	Conductivity (σ):	1.67	1.71	-2.21	5
2024-09-02	Head 13	e'	55.7500	Relative Permittivity (ϵ_r):	55.75	55.00	1.36	5
		e"	992.1800	Conductivity (σ):	0.72	0.75	-4.37	5
	Head 12	e'	55.7400	Relative Permittivity (ϵ_r):	55.74	55.00	1.35	5
		e"	1075.5500	Conductivity (σ):	0.72	0.75	-4.31	5
	Head 14	e'	55.7600	Relative Permittivity (ϵ_r):	55.76	55.00	1.38	5
		e"	921.2900	Conductivity (σ):	0.72	0.75	-4.38	5
2024-09-03	Head 2600	e'	39.4600	Relative Permittivity (ϵ_r):	39.46	39.01	1.15	5
		e"	13.1100	Conductivity (σ):	1.90	1.96	-3.41	5
	Head 2495	e'	39.6100	Relative Permittivity (ϵ_r):	39.61	39.14	1.19	5
		e"	13.3600	Conductivity (σ):	1.85	1.85	0.26	5
	Head 2700	e'	39.2900	Relative Permittivity (ϵ_r):	39.29	38.88	1.04	5
		e"	13.2600	Conductivity (σ):	1.99	2.07	-3.84	5
2024-09-06	head 2250	e'	39.9000	Relative Permittivity (ϵ_r):	39.90	39.56	0.86	5
		e"	13.2400	Conductivity (σ):	1.66	1.62	2.26	5
	head 2300	e'	39.8500	Relative Permittivity (ϵ_r):	39.85	39.47	0.96	5
		e"	13.2500	Conductivity (σ):	1.69	1.66	1.85	5
	head 2350	e'	39.7800	Relative Permittivity (ϵ_r):	39.78	39.38	1.00	5
		e"	13.3500	Conductivity (σ):	1.74	1.71	2.15	5
2024-09-13	head 2250	e'	39.7100	Relative Permittivity (ϵ_r):	39.71	39.56	0.38	5
		e"	13.2200	Conductivity (σ):	1.65	1.62	2.11	5
	head 2300	e'	39.7400	Relative Permittivity (ϵ_r):	39.74	39.47	0.68	5
		e"	13.1200	Conductivity (σ):	1.68	1.66	0.85	5
	head 2350	e'	39.5500	Relative Permittivity (ϵ_r):	39.55	39.38	0.42	5
		e"	13.1500	Conductivity (σ):	1.72	1.71	0.62	5
2024-09-19	head 2250	e'	39.7000	Relative Permittivity (ϵ_r):	39.70	39.56	0.35	5
		e"	13.1100	Conductivity (σ):	1.64	1.62	1.26	5
	head 2300	e'	39.9200	Relative Permittivity (ϵ_r):	39.92	39.47	1.13	5
		e"	13.2900	Conductivity (σ):	1.70	1.66	2.16	5
	head 2350	e'	39.2000	Relative Permittivity (ϵ_r):	39.20	39.38	-0.47	5
		e"	13.0700	Conductivity (σ):	1.71	1.71	0.01	5
2024-09-20	Head 2600	e'	39.3000	Relative Permittivity (ϵ_r):	39.30	39.01	0.74	5
		e"	13.3300	Conductivity (σ):	1.93	1.96	-1.79	5
	Head 2495	e'	39.4700	Relative Permittivity (ϵ_r):	39.47	39.14	0.83	5
		e"	13.4200	Conductivity (σ):	1.86	1.85	0.71	5
	Head 2700	e'	39.1900	Relative Permittivity (ϵ_r):	39.19	38.88	0.79	5
		e"	13.3400	Conductivity (σ):	2.00	2.07	-3.26	5
2024-09-24	Head 2600	e'	38.2700	Relative Permittivity (ϵ_r):	38.27	39.01	-1.90	5
		e"	13.6900	Conductivity (σ):	1.98	1.96	0.87	5
	Head 2495	e'	38.5300	Relative Permittivity (ϵ_r):	38.53	39.14	-1.57	5
		e"	13.7700	Conductivity (σ):	1.91	1.85	3.34	5
	Head 2700	e'	38.0800	Relative Permittivity (ϵ_r):	38.08	38.88	-2.07	5
		e"	13.6500	Conductivity (σ):	2.05	2.07	-1.02	5

SAR 7 Room (Continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2024-10-01	Head 1900	e'	38.9800	Relative Permittivity (ϵ_r):	38.98	40.00	-2.55	5
		e"	13.6700	Conductivity (σ):	1.44	1.40	3.16	5
	Head 1850	e'	38.9400	Relative Permittivity (ϵ_r):	38.94	40.00	-2.65	5
		e"	13.7900	Conductivity (σ):	1.42	1.40	1.32	5
	Head 1915	e'	39.9800	Relative Permittivity (ϵ_r):	39.98	40.00	-0.05	5
		e"	13.6400	Conductivity (σ):	1.45	1.40	3.74	5
2024-10-02	head 2250	e'	40.0200	Relative Permittivity (ϵ_r):	40.02	39.56	1.16	5
		e"	12.4200	Conductivity (σ):	1.55	1.62	-4.07	5
	head 2300	e'	39.9600	Relative Permittivity (ϵ_r):	39.96	39.47	1.23	5
		e"	12.5000	Conductivity (σ):	1.60	1.66	-3.92	5
	head 2350	e'	39.8600	Relative Permittivity (ϵ_r):	39.86	39.38	1.21	5
		e"	12.6000	Conductivity (σ):	1.65	1.71	-3.59	5

SAR 8 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2024-09-02	Head 3400	e'	39.1200	Relative Permittivity (ε_r):	39.12	38.04	2.83	5
		e''	15.1800	Conductivity (σ):	2.87	2.81	2.15	5
	Head 3500	e'	38.9600	Relative Permittivity (ε_r):	38.96	37.93	2.72	5
		e''	15.2400	Conductivity (σ):	2.97	2.91	1.86	5
	Head 3600	e'	38.8100	Relative Permittivity (ε_r):	38.81	37.82	2.63	5
		e''	15.3100	Conductivity (σ):	3.06	3.01	1.68	5
	Head 3700	e'	38.6700	Relative Permittivity (ε_r):	38.67	37.70	2.57	5
		e''	15.3900	Conductivity (σ):	3.17	3.12	1.60	5
	Head 3800	e'	38.5400	Relative Permittivity (ε_r):	38.54	37.59	2.53	5
		e''	15.5000	Conductivity (σ):	3.28	3.22	1.76	5
	Head 3900	e'	38.4000	Relative Permittivity (ε_r):	38.40	37.47	2.47	5
		e''	15.6200	Conductivity (σ):	3.39	3.32	2.00	5
	Head 3980	e'	38.2900	Relative Permittivity (ε_r):	38.29	37.38	2.43	5
		e''	15.7300	Conductivity (σ):	3.48	3.40	2.30	5
2024-09-06	Head 3400	e'	39.1800	Relative Permittivity (ε_r):	39.18	38.04	2.99	5
		e''	14.3600	Conductivity (σ):	2.71	2.81	-3.36	5
	Head 3500	e'	38.9800	Relative Permittivity (ε_r):	38.98	37.93	2.77	5
		e''	14.3700	Conductivity (σ):	2.80	2.91	-3.95	5
	Head 3600	e'	38.8400	Relative Permittivity (ε_r):	38.84	37.82	2.71	5
		e''	14.4200	Conductivity (σ):	2.89	3.01	-4.23	5
	Head 3700	e'	38.6900	Relative Permittivity (ε_r):	38.69	37.70	2.62	5
		e''	14.4900	Conductivity (σ):	2.98	3.12	-4.34	5
	Head 3800	e'	38.5300	Relative Permittivity (ε_r):	38.53	37.59	2.51	5
		e''	14.5800	Conductivity (σ):	3.08	3.22	-4.28	5
	Head 3900	e'	38.3600	Relative Permittivity (ε_r):	38.36	37.47	2.37	5
		e''	14.6800	Conductivity (σ):	3.18	3.32	-4.14	5
	Head 3980	e'	38.2100	Relative Permittivity (ε_r):	38.21	37.38	2.21	5
		e''	14.7600	Conductivity (σ):	3.27	3.40	-4.01	5
2024-09-11	Head 3400	e'	37.6800	Relative Permittivity (ε_r):	37.68	38.04	-0.96	5
		e''	14.5700	Conductivity (σ):	2.75	2.81	-1.95	5
	Head 3500	e'	37.4800	Relative Permittivity (ε_r):	37.48	37.93	-1.19	5
		e''	14.6700	Conductivity (σ):	2.85	2.91	-1.95	5
	Head 3600	e'	37.2900	Relative Permittivity (ε_r):	37.29	37.82	-1.39	5
		e''	14.7700	Conductivity (σ):	2.96	3.01	-1.90	5
	Head 3700	e'	37.1000	Relative Permittivity (ε_r):	37.10	37.70	-1.60	5
		e''	14.8800	Conductivity (σ):	3.06	3.12	-1.76	5
	Head 3800	e'	36.9100	Relative Permittivity (ε_r):	36.91	37.59	-1.80	5
		e''	14.9900	Conductivity (σ):	3.17	3.22	-1.59	5
	Head 3900	e'	36.7200	Relative Permittivity (ε_r):	36.72	37.47	-2.01	5
		e''	15.1100	Conductivity (σ):	3.28	3.32	-1.33	5
	Head 3980	e'	36.5400	Relative Permittivity (ε_r):	36.54	37.38	-2.25	5
		e''	15.2100	Conductivity (σ):	3.37	3.40	-1.08	5
2024-09-20	Head 3400	e'	38.3500	Relative Permittivity (ε_r):	38.35	38.04	0.81	5
		e''	14.5700	Conductivity (σ):	2.75	2.81	-1.95	5
	Head 3500	e'	37.9700	Relative Permittivity (ε_r):	37.97	37.93	0.11	5
		e''	14.6500	Conductivity (σ):	2.85	2.91	-2.08	5
	Head 3600	e'	37.8700	Relative Permittivity (ε_r):	37.87	37.82	0.14	5
		e''	14.8000	Conductivity (σ):	2.96	3.01	-1.70	5
	Head 3700	e'	37.5900	Relative Permittivity (ε_r):	37.59	37.70	-0.30	5
		e''	14.8900	Conductivity (σ):	3.06	3.12	-1.70	5
	Head 3800	e'	37.4300	Relative Permittivity (ε_r):	37.43	37.59	-0.42	5
		e''	14.9900	Conductivity (σ):	3.17	3.22	-1.59	5
	Head 3900	e'	37.3500	Relative Permittivity (ε_r):	37.35	37.47	-0.33	5
		e''	15.1500	Conductivity (σ):	3.29	3.32	-1.07	5
	Head 3980	e'	37.1700	Relative Permittivity (ε_r):	37.17	37.38	-0.57	5
		e''	15.2400	Conductivity (σ):	3.37	3.40	-0.88	5

SAR 9 Room

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2024-08-27	Head 3400	e'	38.2300	Relative Permittivity (ϵ_r):	38.23	38.04	0.49	5
		e"	14.3700	Conductivity (σ):	2.72	2.81	-3.30	5
	Head 3500	e'	37.9800	Relative Permittivity (ϵ_r):	37.98	37.93	0.13	5
		e"	14.4500	Conductivity (σ):	2.81	2.91	-3.42	5
	Head 3600	e'	37.7500	Relative Permittivity (ϵ_r):	37.75	37.82	-0.17	5
		e"	14.6000	Conductivity (σ):	2.92	3.01	-3.03	5
	Head 3700	e'	37.4700	Relative Permittivity (ϵ_r):	37.47	37.70	-0.61	5
		e"	14.6900	Conductivity (σ):	3.02	3.12	-3.02	5
	Head 3800	e'	37.3100	Relative Permittivity (ϵ_r):	37.31	37.59	-0.74	5
		e"	14.7900	Conductivity (σ):	3.13	3.22	-2.91	5
	Head 3900	e'	37.2300	Relative Permittivity (ϵ_r):	37.23	37.47	-0.65	5
		e"	14.9500	Conductivity (σ):	3.24	3.32	-2.38	5
	Head 3980	e'	37.0500	Relative Permittivity (ϵ_r):	37.05	37.38	-0.89	5
		e"	15.0400	Conductivity (σ):	3.33	3.40	-2.19	5
2024-09-02	Head 3400	e'	39.7200	Relative Permittivity (ϵ_r):	39.72	38.04	4.41	5
		e"	14.3800	Conductivity (σ):	2.72	2.81	-3.23	5
	Head 3500	e'	39.5600	Relative Permittivity (ϵ_r):	39.56	37.93	4.30	5
		e"	14.4400	Conductivity (σ):	2.81	2.91	-3.48	5
	Head 3600	e'	39.4000	Relative Permittivity (ϵ_r):	39.40	37.82	4.19	5
		e"	14.5200	Conductivity (σ):	2.91	3.01	-3.56	5
	Head 3700	e'	39.2700	Relative Permittivity (ϵ_r):	39.27	37.70	4.16	5
		e"	14.5900	Conductivity (σ):	3.00	3.12	-3.68	5
	Head 3800	e'	39.1400	Relative Permittivity (ϵ_r):	39.14	37.59	4.13	5
		e"	14.7000	Conductivity (σ):	3.11	3.22	-3.50	5
	Head 3900	e'	39.0000	Relative Permittivity (ϵ_r):	39.00	37.47	4.07	5
		e"	14.8200	Conductivity (σ):	3.21	3.32	-3.23	5
	Head 3980	e'	38.8900	Relative Permittivity (ϵ_r):	38.89	37.38	4.03	5
		e"	14.9300	Conductivity (σ):	3.30	3.40	-2.90	5
2024-09-06	Head 3400	e'	38.5200	Relative Permittivity (ϵ_r):	38.52	38.04	1.25	5
		e"	15.1200	Conductivity (σ):	2.86	2.81	1.75	5
	Head 3500	e'	38.6400	Relative Permittivity (ϵ_r):	38.64	37.93	1.87	5
		e"	15.1300	Conductivity (σ):	2.94	2.91	1.13	5
	Head 3600	e'	37.8200	Relative Permittivity (ϵ_r):	37.82	37.82	0.01	5
		e"	15.1100	Conductivity (σ):	3.02	3.01	0.35	5
	Head 3700	e'	38.2700	Relative Permittivity (ϵ_r):	38.27	37.70	1.51	5
		e"	15.2300	Conductivity (σ):	3.13	3.12	0.55	5
	Head 3800	e'	37.5700	Relative Permittivity (ϵ_r):	37.57	37.59	-0.05	5
		e"	15.2500	Conductivity (σ):	3.22	3.22	0.11	5
	Head 3900	e'	37.4400	Relative Permittivity (ϵ_r):	37.44	37.47	-0.09	5
		e"	15.2900	Conductivity (σ):	3.32	3.32	-0.16	5
	Head 3980	e'	37.2200	Relative Permittivity (ϵ_r):	37.22	37.38	-0.43	5
		e"	15.3100	Conductivity (σ):	3.39	3.40	-0.43	5
2024-09-09	Head 3400	e'	38.8400	Relative Permittivity (ϵ_r):	38.84	38.04	2.09	5
		e"	14.5600	Conductivity (σ):	2.75	2.81	-2.02	5
	Head 3500	e'	38.6700	Relative Permittivity (ϵ_r):	38.67	37.93	1.95	5
		e"	14.6000	Conductivity (σ):	2.84	2.91	-2.41	5
	Head 3600	e'	38.5700	Relative Permittivity (ϵ_r):	38.57	37.82	2.00	5
		e"	14.6200	Conductivity (σ):	2.93	3.01	-2.90	5
	Head 3700	e'	38.4200	Relative Permittivity (ϵ_r):	38.42	37.70	1.91	5
		e"	14.6700	Conductivity (σ):	3.02	3.12	-3.15	5
	Head 3800	e'	38.2700	Relative Permittivity (ϵ_r):	38.27	37.59	1.82	5
		e"	14.7400	Conductivity (σ):	3.11	3.22	-3.23	5
	Head 3900	e'	38.1300	Relative Permittivity (ϵ_r):	38.13	37.47	1.75	5
		e"	14.7900	Conductivity (σ):	3.21	3.32	-3.42	5
	Head 3980	e'	37.9700	Relative Permittivity (ϵ_r):	37.97	37.38	1.57	5
		e"	14.8500	Conductivity (σ):	3.29	3.40	-3.42	5

SAR 9 Room (Continued)

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
2024-09-11	Head 3400	e'	38.0000	Relative Permittivity (ϵ_r):	38.00	38.04	-0.11	5
		e"	14.4800	Conductivity (σ):	2.74	2.81	-2.56	5
	Head 3500	e'	37.8000	Relative Permittivity (ϵ_r):	37.80	37.93	-0.34	5
		e"	14.5300	Conductivity (σ):	2.83	2.91	-2.88	5
	Head 3600	e'	37.6800	Relative Permittivity (ϵ_r):	37.68	37.82	-0.36	5
		e"	14.5700	Conductivity (σ):	2.92	3.01	-3.23	5
	Head 3700	e'	37.5300	Relative Permittivity (ϵ_r):	37.53	37.70	-0.45	5
		e"	14.6300	Conductivity (σ):	3.01	3.12	-3.41	5
	Head 3800	e'	37.3600	Relative Permittivity (ϵ_r):	37.36	37.59	-0.60	5
		e"	14.6900	Conductivity (σ):	3.10	3.22	-3.56	5
	Head 3900	e'	37.1800	Relative Permittivity (ϵ_r):	37.18	37.47	-0.78	5
		e"	14.7600	Conductivity (σ):	3.20	3.32	-3.62	5
	Head 3980	e'	37.0100	Relative Permittivity (ϵ_r):	37.01	37.38	-1.00	5
		e"	14.8500	Conductivity (σ):	3.29	3.40	-3.42	5
2024-09-19	Head 3400	e'	37.7200	Relative Permittivity (ϵ_r):	37.72	38.04	-0.85	5
		e"	15.0500	Conductivity (σ):	2.85	2.81	1.28	5
	Head 3500	e'	37.4300	Relative Permittivity (ϵ_r):	37.43	37.93	-1.32	5
		e"	15.1100	Conductivity (σ):	2.94	2.91	1.00	5
	Head 3600	e'	37.2000	Relative Permittivity (ϵ_r):	37.20	37.82	-1.63	5
		e"	15.1800	Conductivity (σ):	3.04	3.01	0.82	5
	Head 3700	e'	36.9200	Relative Permittivity (ϵ_r):	36.92	37.70	-2.07	5
		e"	15.2700	Conductivity (σ):	3.14	3.12	0.81	5
	Head 3800	e'	36.6600	Relative Permittivity (ϵ_r):	36.66	37.59	-2.47	5
		e"	15.3600	Conductivity (σ):	3.25	3.22	0.84	5
	Head 3900	e'	36.4000	Relative Permittivity (ϵ_r):	36.40	37.47	-2.86	5
		e"	15.4300	Conductivity (σ):	3.35	3.32	0.76	5
	Head 3980	e'	37.9900	Relative Permittivity (ϵ_r):	37.99	37.38	1.63	5
		e"	15.4900	Conductivity (σ):	3.43	3.40	0.74	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 9MHz to 19MHz 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 (13MHz):

- 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
CLA-13	1015	2024-08-22	2025-08-22	1g	0.537
				10g	0.333
D750V3	1122	2024-02-22	2025-02-22	1g	8.58
				10g	5.62
D835V2	4d194	2024-03-11	2025-03-11	1g	9.86
				10g	6.45
D1750V2	1125	2022-11-30	2024-11-30	1g	37.40
				10g	19.70
D1900V2	5d190	2022-11-16	2024-11-16	1g	39.70
				10g	20.70
D1900V2	5d199	2024-03-13	2025-03-13	1g	39.70
				10g	20.70
D2300V2	1115	2023-04-25	2025-04-25	1g	48.50
				10g	23.50
D2450V2	939	2024-07-10	2025-07-10	1g	52.20
				10g	24.40
D2450V2	960	2024-03-14	2025-03-14	1g	51.80
				10g	24.10
D2600V2	1178	2023-04-25	2025-04-25	1g	57.40
				10g	25.70
D3500V2	1075	2023-05-19	2025-05-19	1g	65.50
				10g	24.70
D3700V2	1036	2023-05-19	2025-05-19	1g	67.80
				10g	24.50
D3900V2	1069	2023-04-21	2025-04-21	1g	69.40
				10g	24.00
D5GHzV2 (5250 MHz)	1325	2023-04-21	2025-04-21	1g	79.60
				10g	22.70
D5GHzV2 (5600 MHz)	1325	2023-04-21	2025-04-21	1g	83.90
				10g	23.80
D5GHzV2 (5750 MHz)	1325	2023-04-21	2025-04-21	1g	80.40
				10g	22.70
D5GHzV2 (5800 MHz)	1325	2023-04-21	2025-04-21	1g	80.50
				10g	22.50

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

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 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			
2024-08-26	D1900V2	5d190	Head	1g	3.62	36.2	39.70	-8.82	1
				10g	1.89	18.9	20.70	-8.70	
2024-08-27	D1900V2	5d190	Head	1g	3.96	39.6	39.70	-0.25	
				10g	2.06	20.6	20.70	-0.48	
2024-08-28	D1900V2	5d199	Head	1g	3.89	38.9	39.70	-2.02	
				10g	2.03	20.3	20.70	-1.93	
2024-08-29	D1900V2	5d199	Head	1g	3.73	37.3	39.70	-6.05	
				10g	1.94	19.4	20.70	-6.28	
2024-08-30	D1900V2	5d199	Head	1g	3.80	38.0	39.70	-4.28	
				10g	1.98	19.8	20.70	-4.35	
2024-09-02	D1900V2	5d190	Head	1g	3.70	37.0	39.70	-6.80	
				10g	1.93	19.3	20.70	-6.76	
2024-09-03	D1900V2	5d190	Head	1g	3.75	37.5	39.70	-5.54	
				10g	1.96	19.6	20.70	-5.31	
2024-09-04	D1900V2	5d190	Head	1g	3.90	39.0	39.70	-1.76	
				10g	2.03	20.3	20.70	-1.93	
2024-09-05	D1900V2	5d190	Head	1g	3.91	39.1	39.70	-1.51	
				10g	2.04	20.4	20.70	-1.45	
2024-09-06	D1750V2	1125	Head	1g	3.61	36.1	37.40	-3.48	
				10g	1.93	19.3	19.70	-2.03	
2024-09-06	D1900V2	5d190	Head	1g	3.92	39.2	39.70	-1.26	
				10g	2.05	20.5	20.70	-0.97	
2024-09-10	D1900V2	5d199	Head	1g	4.17	41.7	39.70	5.04	
				10g	2.19	21.9	20.70	5.80	

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			
2024-08-27	D1900V2	5d190	Head	1g	3.74	37.4	39.70	-5.79	
				10g	1.97	19.7	20.70	-4.83	
2024-08-28	D1900V2	5d199	Head	1g	3.88	38.8	39.70	-2.27	
				10g	2.04	20.4	20.70	-1.45	
2024-08-29	D1750V2	1125	Head	1g	3.61	36.1	37.40	-3.48	
				10g	1.94	19.4	19.70	-1.52	
2024-08-30	D1750V2	1125	Head	1g	3.65	36.5	37.40	-2.41	
				10g	1.96	19.6	19.70	-0.51	
2024-09-02	D1750V2	1125	Head	1g	3.69	36.9	37.40	-1.34	
				10g	1.98	19.8	19.70	0.51	
2024-09-03	D1750V2	1125	Head	1g	3.78	37.8	37.40	1.07	
				10g	2.03	20.3	19.70	3.05	
2024-09-04	D1750V2	1125	Head	1g	3.78	37.8	37.40	1.07	
				10g	2.03	20.3	19.70	3.05	
2024-09-05	D1750V2	1125	Head	1g	3.59	35.9	37.40	-4.01	
				10g	1.93	19.3	19.70	-2.03	
2024-09-06	D1750V2	1125	Head	1g	3.80	38.0	37.40	1.60	
				10g	2.03	20.3	19.70	3.05	
2024-09-09	D1750V2	1125	Head	1g	3.81	38.1	37.40	1.87	
				10g	2.03	20.3	19.70	3.05	
2024-09-10	D1750V2	1125	Head	1g	3.68	36.8	37.40	-1.60	
				10g	1.96	19.6	19.70	-0.51	
2024-09-11	D1750V2	1125	Head	1g	3.71	37.1	37.40	-0.80	
				10g	1.97	19.7	19.70	0.00	
2024-09-12	D1750V2	1125	Head	1g	3.91	39.1	37.40	4.55	2
				10g	2.08	20.8	19.70	5.58	
2024-09-13	D1750V2	1125	Head	1g	3.60	36.0	37.40	-3.74	
				10g	1.91	19.1	19.70	-3.05	

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			
2024-08-26	D2450V2	960	Head	1g	5.14	51.4	51.80	-0.77	
				10g	2.46	24.6	24.10	2.07	
2024-08-27	D835V2	4d194	Head	1g	1.01	10.1	9.86	2.43	
				10g	0.67	6.7	6.45	3.88	
2024-08-28	D835V2	4d194	Head	1g	0.96	9.6	9.86	-2.74	
				10g	0.63	6.3	6.45	-1.71	
2024-08-30	D835V2	4d194	Head	1g	1.00	10.0	9.86	1.42	
				10g	0.67	6.7	6.45	3.26	
2024-09-02	D835V2	4d194	Head	1g	0.98	9.8	9.86	-1.01	
				10g	0.65	6.5	6.45	0.93	
2024-09-03	D835V2	4d194	Head	1g	0.97	9.7	9.86	-1.83	
				10g	0.64	6.4	6.45	-1.24	
2024-09-04	D835V2	4d194	Head	1g	0.99	9.9	9.86	0.81	
				10g	0.65	6.5	6.45	1.40	
2024-09-05	D750V2	1122	Head	1g	0.80	8.0	8.58	-7.23	
				10g	0.54	5.4	5.62	-4.45	
2024-09-06	D750V2	1122	Head	1g	0.84	8.4	8.58	-2.33	
				10g	0.56	5.6	5.62	-0.71	
2024-09-09	D750V2	1122	Head	1g	0.86	8.6	8.58	-0.12	
				10g	0.58	5.8	5.62	2.31	
2024-09-10	D750V2	1122	Head	1g	0.82	8.2	8.58	-4.08	
				10g	0.55	5.5	5.62	-3.02	
2024-09-11	D750V2	1122	Head	1g	0.88	8.8	8.58	2.68	
				10g	0.59	5.9	5.62	5.16	
2024-09-12	D750V2	1122	Head	1g	0.92	9.2	8.58	7.46	3
				10g	0.61	6.1	5.62	8.36	
2024-09-19	D835V2	4d194	Head	1g	1.01	10.1	9.86	2.43	
				10g	0.66	6.6	6.45	2.02	
2024-09-20	D750V2	1122	Head	1g	0.84	8.4	8.58	-1.63	
				10g	0.57	5.7	5.62	0.89	
2024-09-20	D835V2	4d194	Head	1g	1.03	10.3	9.86	4.46	4
				10g	0.69	6.9	6.45	6.51	
2024-09-24	D750V2	1122	Head	1g	0.90	9.0	8.58	4.31	
				10g	0.60	6.0	5.62	6.41	

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			
2024-09-03	D2450V2	939	Head	1g	5.20	52.0	52.20	-0.38	
				10g	2.43	24.3	24.40	-0.41	
2024-09-04	D2450V2	939	Head	1g	4.82	48.2	52.20	-7.66	5
				10g	2.23	22.3	24.40	-8.61	
2024-09-04	D5GHzV2 (5750)	1325	Head	1g	8.08	80.8	80.40	0.50	
				10g	2.28	22.8	22.70	0.44	
2024-09-04	D5GHzV2 (5800)	1325	Head	1g	7.85	78.5	80.50	-2.48	
				10g	2.24	22.4	22.50	-0.44	
2024-09-09	D750V3	1122	Head	1g	0.80	8.0	8.58	-6.88	
				10g	0.53	5.3	5.62	-6.41	
2024-09-10	D5GHzV2 (5600)	1325	Head	1g	8.87	88.7	83.90	5.72	
				10g	2.52	25.2	23.80	5.88	
2024-09-11	D5GHzV2 (5250)	1325	Head	1g	8.23	82.3	79.60	3.39	
				10g	2.36	23.6	22.70	3.96	
2024-09-11	D5GHzV2 (5600)	1325	Head	1g	8.50	85.0	83.90	1.31	
				10g	2.42	24.2	23.80	1.68	
2024-09-11	D5GHzV2 (5750)	1325	Head	1g	8.31	83.1	80.40	3.36	
				10g	2.35	23.5	22.70	3.52	
2024-09-11	D5GHzV2 (5800)	1325	Head	1g	8.16	81.6	80.50	1.37	
				10g	2.33	23.3	22.50	3.56	
2024-09-12	D5GHzV2 (5250)	1325	Head	1g	8.03	80.3	79.60	0.88	
				10g	2.27	22.7	22.70	0.00	
2024-09-12	D5GHzV2 (5750)	1325	Head	1g	8.01	80.1	80.40	-0.37	
				10g	2.26	22.6	22.70	-0.44	
2024-09-12	D5GHzV2 (5800)	1325	Head	1g	7.96	79.6	80.50	-1.12	
				10g	2.26	22.6	22.50	0.44	
2024-09-13	D5GHzV2 (5750)	1325	Head	1g	8.22	82.2	80.40	2.24	
				10g	2.32	23.2	22.70	2.20	
2024-09-13	D5GHzV2 (5800)	1325	Head	1g	8.33	83.3	80.50	3.48	
				10g	2.37	23.7	22.50	5.33	
2024-09-19	D2450V2	939	Head	1g	5.34	53.4	52.20	2.30	
				10g	2.52	25.2	24.40	3.28	
2024-09-19	D5GHzV2 (5250)	1325	Head	1g	8.48	84.8	79.60	6.53	
				10g	2.45	24.5	22.70	7.93	
2024-09-19	D5GHzV2 (5600)	1325	Head	1g	9.01	90.1	83.90	7.39	6
				10g	2.59	25.9	23.80	8.82	
2024-09-19	D5GHzV2 (5750)	1325	Head	1g	8.19	81.9	80.40	1.87	
				10g	2.34	23.4	22.70	3.08	
2024-09-19	D5GHzV2 (5800)	1325	Head	1g	8.34	83.4	80.50	3.60	
				10g	2.40	24.0	22.50	6.67	
2024-09-20	D5GHzV2 (5250)	1325	Head	1g	8.52	85.2	79.60	7.04	
				10g	2.46	24.6	22.70	8.37	
2024-09-20	D5GHzV2 (5600)	1325	Head	1g	8.63	86.3	83.90	2.86	
				10g	2.49	24.9	23.80	4.62	
2024-09-20	D5GHzV2 (5750)	1325	Head	1g	8.23	82.3	80.40	2.36	
				10g	2.35	23.5	22.70	3.52	
2024-09-20	D5GHzV2 (5800)	1325	Head	1g	8.12	81.2	80.50	0.87	
				10g	2.34	23.4	22.50	4.00	
2024-09-23	D5GHzV2 (5250)	1325	Head	1g	8.07	80.7	79.60	1.38	
				10g	2.33	23.3	22.70	2.64	
2024-09-23	D5GHzV2 (5600)	1325	Head	1g	8.81	88.1	83.90	5.01	
				10g	2.53	25.3	23.80	6.30	
2024-09-23	D5GHzV2 (5750)	1325	Head	1g	8.59	85.9	80.40	6.84	
				10g	2.45	24.5	22.70	7.93	
2024-09-23	D5GHzV2 (5800)	1325	Head	1g	8.45	84.5	80.50	4.97	
				10g	2.43	24.3	22.50	8.00	

SAR 7 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			
2024-08-26	D2600V2	1178	Head	1g	5.61	56.1	57.40	-2.26	
				10g	2.63	26.3	25.70	2.33	
2024-08-27	D2600V2	1178	Head	1g	5.68	56.8	57.40	-1.05	
				10g	2.66	26.6	25.70	3.50	
2024-08-28	D2600V2	1178	Head	1g	5.76	57.6	57.40	0.35	
				10g	2.60	26.0	25.70	1.17	
2024-08-29	D2600V2	1178	Head	1g	5.90	59.0	57.40	2.79	
				10g	2.77	27.7	25.70	7.78	
2024-08-29	D2300V2	1115	Head	1g	4.78	47.8	48.50	-1.44	
				10g	2.41	24.1	23.50	2.55	
2024-09-02	CLA-13	1015	Head	1g	0.06	0.6	0.537	2.42	7
				10g	0.03	0.3	0.333	2.10	
2024-09-03	D2600V2	1178	Head	1g	5.75	57.5	57.40	0.17	
				10g	2.70	27.0	25.70	5.06	
2024-09-04	D2600V2	1178	Head	1g	5.65	56.5	57.40	-1.57	
				10g	2.66	26.6	25.70	3.50	
2024-09-06	D2300V2	1115	Head	1g	4.74	47.4	48.50	-2.27	
				10g	2.28	22.8	23.50	-2.98	
2024-09-13	D2300V2	1115	Head	1g	4.52	45.2	48.50	-6.80	8
				10g	2.19	21.9	23.50	-6.81	
2024-09-19	D2300V2	1115	Head	1g	4.99	49.9	48.50	2.89	
				10g	2.52	25.2	23.50	7.23	
2024-09-20	D2600V2	1178	Head	1g	5.73	57.3	57.40	-0.17	
				10g	2.60	26.0	25.70	1.17	
2024-09-24	D2600V2	1178	Head	1g	5.53	55.3	57.40	-3.66	9
				10g	2.61	26.1	25.70	1.56	
2024-10-01	D1900V2	5d190	Head	1g	3.96	39.6	39.70	-0.25	
				10g	2.13	21.3	20.70	2.90	
2024-10-02	D2300V2	1115	Head	1g	4.76	47.6	48.50	-1.86	
				10g	2.29	22.9	23.50	-2.55	

SAR 8 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			
2024-09-02	D3500V2	1075	Head	1g	6.62	66.2	65.50	1.07	
				10g	2.59	25.9	24.70	4.86	
2024-09-02	D3700V2	1036	Head	1g	6.99	69.9	67.80	3.10	
				10g	2.66	26.6	24.50	8.57	
2024-09-02	D3900V2	1069	Head	1g	7.17	71.7	69.40	3.31	
				10g	2.60	26.0	24.00	8.33	
2024-09-06	D3500V2	1075	Head	1g	6.43	64.3	65.50	-1.83	
				10g	2.53	25.3	24.70	2.43	
2024-09-06	D3700V2	1036	Head	1g	6.59	65.9	67.80	-2.80	
				10g	2.52	25.2	24.50	2.86	
2024-09-06	D3900V2	1069	Head	1g	6.86	68.6	69.40	-1.15	
				10g	2.52	25.2	24.00	5.00	
2024-09-11	D3500V2	1075	Head	1g	6.37	63.7	65.50	-2.75	
				10g	2.50	25.0	24.70	1.21	
2024-09-11	D3700V2	1036	Head	1g	6.53	65.3	67.80	-3.69	
				10g	2.51	25.1	24.50	2.45	
2024-09-11	D3900V2	1069	Head	1g	7.18	71.8	69.40	3.46	
				10g	2.62	26.2	24.00	9.17	
2024-09-12	D3500V2	1075	Head	1g	6.21	62.1	65.50	-5.19	10
				10g	2.44	24.4	24.70	-1.21	
2024-09-12	D3700V2	1036	Head	1g	6.85	68.5	67.80	1.03	
				10g	2.62	26.2	24.50	6.94	
2024-09-12	D3900V2	1069	Head	1g	7.14	71.4	69.40	2.88	
				10g	2.61	26.1	24.00	8.75	
2024-09-20	D3500V2	1075	Head	1g	6.57	65.7	65.50	0.31	
				10g	2.60	26.0	24.70	5.26	
2024-09-20	D3700V2	1036	Head	1g	6.56	65.6	67.80	-3.24	
				10g	2.52	25.2	24.50	2.86	
2024-09-20	D3900V2	1069	Head	1g	6.88	68.8	69.40	-0.86	
				10g	2.53	25.3	24.00	5.42	

SAR 9 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			
2024-08-27	D3500V2	1075	Head	1g	6.37	63.7	65.50	-2.75	
				10g	2.48	24.8	24.70	0.40	
2024-08-27	D3700V2	1036	Head	1g	6.67	66.7	67.80	-1.62	
				10g	2.51	25.1	24.50	2.45	
2024-08-27	D3900V2	1069	Head	1g	7.13	71.3	69.40	2.74	
				10g	2.56	25.6	24.00	6.67	
2024-09-02	D3500V2	1075	Head	1g	6.34	63.4	65.50	-3.21	
				10g	2.47	24.7	24.70	0.00	
2024-09-02	D3700V2	1036	Head	1g	6.63	66.3	67.80	-2.21	
				10g	2.50	25.0	24.50	2.04	
2024-09-02	D3900V2	1069	Head	1g	7.04	70.4	69.40	1.44	
				10g	2.53	25.3	24.00	5.42	
2024-09-06	D3500V2	1075	Head	1g	6.65	66.5	65.50	1.53	
				10g	2.59	25.9	24.70	4.86	
2024-09-06	D3700V2	1036	Head	1g	7.05	70.5	67.80	3.98	11
				10g	2.67	26.7	24.50	8.98	
2024-09-06	D3900V2	1069	Head	1g	7.17	71.7	69.40	3.31	
				10g	2.59	25.9	24.00	7.92	
2024-09-09	D3500V2	1075	Head	1g	6.40	64.0	65.50	-2.29	
				10g	2.51	25.1	24.70	1.62	
2024-09-11	D3500V2	1075	Head	1g	6.50	65.0	65.50	-0.76	
				10g	2.55	25.5	24.70	3.24	
2024-09-11	D3700V2	1036	Head	1g	6.72	67.2	67.80	-0.88	
				10g	2.56	25.6	24.50	4.49	
2024-09-11	D3900V2	1069	Head	1g	7.21	72.1	69.40	3.89	12
				10g	2.61	26.1	24.00	8.75	
2024-09-12	D3500V2	1075	Head	1g	6.65	66.5	65.50	1.53	
				10g	2.61	26.1	24.70	5.67	
2024-09-12	D3700V2	1036	Head	1g	6.78	67.8	67.80	0.00	
				10g	2.59	25.9	24.50	5.71	
2024-09-12	D3900V2	1069	Head	1g	7.20	72.0	69.40	3.75	
				10g	2.62	26.2	24.00	9.17	
2024-09-19	D3500V2	1075	Head	1g	6.70	67.0	65.50	2.29	
				10g	2.64	26.4	24.70	6.88	
2024-09-19	D3700V2	1036	Head	1g	7.02	70.2	67.80	3.54	
				10g	2.68	26.8	24.50	9.39	
2024-09-19	D3900V2	1069	Head	1g	7.12	71.2	69.40	2.59	
				10g	2.59	25.9	24.00	7.92	
2024-09-20	D3500V2	1075	Head	1g	6.51	65.1	65.50	-0.61	
				10g	2.57	25.7	24.70	4.05	
2024-09-20	D3700V2	1036	Head	1g	6.72	67.2	67.80	-0.88	
				10g	2.57	25.7	24.50	4.90	
2024-09-20	D3900V2	1069	Head	1g	6.99	69.9	69.40	0.72	
				10g	2.56	25.6	24.00	6.67	

9. Conducted Output Power Measurements

9.1. GSM

Per KDB 941225 D01 3G SAR Procedures:

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

GSM850 Measured Results

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)			
					RSI = 0, 3, 4			
					Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GSM (Voice)	CS1	1	128	824.2	31.21	22.02	33.5	24.3
			190	836.6	31.53	22.34		
			251	848.8	31.42	22.23		
GPRS (GMSK)	CS1	1	128	824.2	31.33	22.14	33.5	24.3
			190	836.6	31.69	22.50		
			251	848.8	31.56	22.37		
		2	128	824.2	29.78	23.60	31.0	24.8
			190	836.6	29.96	23.78		
			251	848.8	29.56	23.38		
		3	128	824.2	28.18	23.76	29.0	24.6
			190	836.6	28.13	23.71		
			251	848.8	28.03	23.61		
		4	128	824.2	27.07	23.90	28.0	24.8
			190	836.6	27.06	23.89		
			251	848.8	26.89	23.72		
EGPRS (8PSK)	MCS5	1	128	824.2	26.13	16.94	28.0	18.8
			190	836.6	26.12	16.93		
			251	848.8	25.79	16.60		
		2	128	824.2	24.37	18.19	26.0	19.8
			190	836.6	24.32	18.14		
			251	848.8	23.89	17.71		
		3	128	824.2	23.05	18.63	24.5	20.1
			190	836.6	22.98	18.56		
			251	848.8	22.62	18.20		
		4	128	824.2	21.97	18.80	23.5	20.3
			190	836.6	21.96	18.79		
			251	848.8	21.83	18.66		

Notes:

The worst-case configuration and mode for SAR testing is determined to be as follows:

- GMSK (GPRS) mode with 4 time slots for RSI 0, 3, 4 based on the Tune-up Procedure. Refer to §6.3.
- SAR is not required for EGPRS (8PSK) mode because the maximum output power and tune-up limit is ≤ 1/4dB higher than GMSK GPRS or the adjusted SAR of the highest reported SAR of GMSK GPRS is ≤ 1.2W/kg.

GSM1900 Measured Results

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)			
					RSI=0,3,4			
					Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GSM (Voice)	CS1	1	512	1850.2	29.13	19.94	31.0	21.8
			661	1880.0	29.67	20.48		
			810	1909.8	29.66	20.47		
GPRS (GMSK)	CS1	1	512	1850.2	29.29	20.10	31.0	21.8
			661	1880.0	29.73	20.54		
			810	1909.8	29.68	20.49		
		2	512	1850.2	27.22	21.04	29.0	22.8
			661	1880.0	27.78	21.60		
			810	1909.8	27.68	21.50		
		3	512	1850.2	25.86	21.44	27.5	23.1
			661	1880.0	26.44	22.02		
			810	1909.8	26.27	21.85		
		4	512	1850.2	23.67	20.50	25.0	21.8
			661	1880.0	24.52	21.35		
			810	1909.8	24.40	21.23		
EGPRS (8PSK)	MCS5	1	512	1850.2	24.51	15.32	27.0	17.8
			661	1880.0	24.98	15.79		
			810	1909.8	24.81	15.62		
		2	512	1850.2	22.69	16.51	24.0	17.8
			661	1880.0	23.20	17.02		
			810	1909.8	23.02	16.84		
		3	512	1850.2	20.25	15.83	22.0	17.6
			661	1880.0	21.18	16.76		
			810	1909.8	21.02	16.60		
		4	512	1850.2	20.10	16.93	22.5	19.3
			661	1880.0	20.74	17.57		
			810	1909.8	20.61	17.44		

Notes:

The worst-case configuration and mode for SAR testing is determined to be as follows:

- GMSK (GPRS) mode with 3 time slots for RSI 0, 3, 4 based on the Tune-up Procedure. Refer to §6.3.
- SAR is not required for EGPRS (8PSK) mode because the maximum output power and tune-up limit is ≤ 1/4dB higher than GMSK GPRS or the adjusted SAR of the highest reported SAR of GMSK GPRS is ≤ 1.2W/kg.

9.2. 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.		

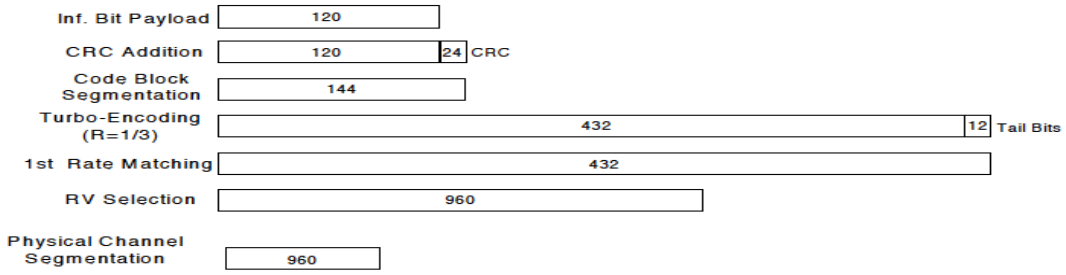


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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		Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)			Maximum Allowed Average Power (dBm)		
				RSI = 0, 3			RSI = 4		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	21.37	N/A	22.0	24.78	N/A	25.0
		9400	1880.0	21.62			24.94		
		9538	1907.6	21.30			24.76		
HSDPA	Subtest 1	9262	1852.4	21.35	0	22.0	23.25	0	23.5
		9400	1880.0	21.65			23.45		
		9538	1907.6	21.32			23.44		
	Subtest 2	9262	1852.4	21.38	0	22.0	22.45	0	23.5
		9400	1880.0	21.65			22.97		
		9538	1907.6	21.33			22.66		
	Subtest 3	9262	1852.4	21.39	0.5	21.5	21.60	0.5	23.0
		9400	1880.0	21.37			21.93		
		9538	1907.6	21.35			21.65		
	Subtest 4	9262	1852.4	21.43	0.5	21.5	21.69	0.5	23.0
		9400	1880.0	21.47			22.57		
		9538	1907.6	21.35			21.66		
HSUPA	Subtest 1	9262	1852.4	20.35	0	22.0	22.51	0	23.5
		9400	1880.0	20.62			22.87		
		9538	1907.6	20.22			22.53		
	Subtest 2	9262	1852.4	19.98	2	20.0	20.61	2	21.5
		9400	1880.0	19.93			20.95		
		9538	1907.6	19.23			20.53		
	Subtest 3	9262	1852.4	20.34	1	21.0	21.67	1	22.5
		9400	1880.0	20.62			21.92		
		9538	1907.6	20.26			21.60		
	Subtest 4	9262	1852.4	19.97	2	20.0	20.61	2	21.5
		9400	1880.0	19.98			20.92		
		9538	1907.6	19.92			20.55		
	Subtest 5	9262	1852.4	21.44	0	22.0	23.09	0	23.5
		9400	1880.0	21.68			23.48		
		9538	1907.6	21.35			23.41		
DC-HSDPA	Subtest 1	9262	1852.4	21.35	0	22.0	23.33	0	23.5
		9400	1880.0	21.57			23.47		
		9538	1907.6	21.33			23.42		
	Subtest 2	9262	1852.4	21.37	0	22.0	22.38	0	23.5
		9400	1880.0	21.57			22.93		
		9538	1907.6	21.33			22.65		
	Subtest 3	9262	1852.4	21.38	0.5	21.5	21.62	0.5	23.0
		9400	1880.0	21.48			21.95		
		9538	1907.6	21.35			21.86		
	Subtest 4	9262	1852.4	21.41	0.5	21.5	21.59	0.5	23.0
		9400	1880.0	21.43			21.94		
		9538	1907.6	21.38			21.67		

W-CDMA Band IV Measured Results

Mode		Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)			Maximum Allowed Average Power (dBm)		
				RSI = 0, 3			RSI = 4		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	21.75	N/A	22.0	24.94	N/A	25.0
		1413	1732.6	21.62			24.93		
		1513	1752.6	21.02			24.56		
HSDPA	Subtest 1	1312	1712.4	21.73	0	22.0	23.39	0	23.5
		1413	1732.6	21.62			23.45		
		1513	1752.6	21.02			23.32		
	Subtest 2	1312	1712.4	21.74	0	22.0	22.50	0	23.5
		1413	1732.6	21.63			22.82		
		1513	1752.6	21.05			22.30		
	Subtest 3	1312	1712.4	21.22	0.5	21.5	21.73	0.5	23.0
		1413	1732.6	21.42			21.81		
		1513	1752.6	21.03			21.30		
	Subtest 4	1312	1712.4	21.43	0.5	21.5	21.87	0.5	23.0
		1413	1732.6	21.46			21.82		
		1513	1752.6	21.05			21.33		
HSUPA	Subtest 1	1312	1712.4	20.75	0	22.0	22.57	0	23.5
		1413	1732.6	20.62			22.75		
		1513	1752.6	19.89			22.22		
	Subtest 2	1312	1712.4	19.92	2	20.0	21.02	2	21.5
		1413	1732.6	19.97			20.80		
		1513	1752.6	19.89			20.21		
	Subtest 3	1312	1712.4	20.74	1	21.0	21.81	1	22.5
		1413	1732.6	20.65			21.73		
		1513	1752.6	19.91			21.22		
	Subtest 4	1312	1712.4	19.98	2	20.0	20.99	2	21.5
		1413	1732.6	19.87			20.78		
		1513	1752.6	19.89			20.18		
	Subtest 5	1312	1712.4	20.91	0	22.0	23.20	0	23.5
		1413	1732.6	21.56			23.45		
		1513	1752.6	20.98			23.37		
DC-HSDPA	Subtest 1	1312	1712.4	21.72	0	22.0	23.40	0	23.5
		1413	1732.6	21.60			23.38		
		1513	1752.6	21.30			23.47		
	Subtest 2	1312	1712.4	21.76	0	22.0	22.48	0	23.5
		1413	1732.6	21.64			22.77		
		1513	1752.6	21.33			22.46		
	Subtest 3	1312	1712.4	21.43	0.5	21.5	22.77	0.5	23.0
		1413	1732.6	21.44			22.83		
		1513	1752.6	21.31			22.45		
	Subtest 4	1312	1712.4	21.45	0.5	21.5	22.87	0.5	23.0
		1413	1732.6	21.46			22.81		
		1513	1752.6	21.32			22.95		

W-CDMA Band V Measured Results

Mode		Ch No.	Freq. (MHz)	Maximum Allowed Average Power (dBm)		
				RSI = 0, 3, 4		
				Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	4132	826.4	24.88	N/A	25.5
		4183	836.6	25.02		
		4233	846.6	24.90		
HSDPA	Subtest 1	4132	826.4	23.42	0	23.5
		4183	836.6	23.48		
		4233	846.6	23.41		
	Subtest 2	4132	826.4	22.38	0	23.5
		4183	836.6	22.54		
		4233	846.6	22.46		
	Subtest 3	4132	826.4	21.48	0.5	23.0
		4183	836.6	21.60		
		4233	846.6	21.49		
	Subtest 4	4132	826.4	21.46	0.5	23.0
		4183	836.6	21.60		
		4233	846.6	21.47		
HSUPA	Subtest 1	4132	826.4	22.91	0	23.5
		4183	836.6	23.02		
		4233	846.6	22.91		
	Subtest 2	4132	826.4	20.36	2	21.5
		4183	836.6	20.44		
		4233	846.6	20.35		
	Subtest 3	4132	826.4	21.41	1	22.5
		4183	836.6	21.52		
		4233	846.6	21.44		
	Subtest 4	4132	826.4	20.39	2	21.5
		4183	836.6	20.47		
		4233	846.6	20.37		
	Subtest 5	4132	826.4	23.42	0	23.5
		4183	836.6	23.44		
		4233	846.6	23.48		
DC-HSDPA	Subtest 1	4132	826.4	23.48	0	23.5
		4183	836.6	23.39		
		4233	846.6	23.22		
	Subtest 2	4132	826.4	22.38	0	23.5
		4183	836.6	22.64		
		4233	846.6	22.56		
	Subtest 3	4132	826.4	21.46	0.5	23.0
		4183	836.6	21.69		
		4233	846.6	21.59		
	Subtest 4	4132	826.4	21.44	0.5	23.0
		4183	836.6	21.68		
		4233	846.6	21.61		

9.3. 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) in Ant. A
- LTE Band 4 (1710 – 1755 MHz) is covered by LTE Band 66 (1710 – 1780 MHz)
- LTE Band 38 (2570 - 2620 MHz) is covered by LTE Band 41 (2496 – 2690 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 2 (Ant. B) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
				RSI = 0,3					RSI = 4				
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				18700	18900	19100			18700	18900	19100		
				1860 MHz	1880 MHz	1900 MHz			1860 MHz	1880 MHz	1900 MHz		
20 MHz	QPSK	1	0	19.12	19.12	18.81	0.0	21.0	20.25	20.24	19.76	0.0	22.0
		1	49	18.97	19.03	18.70	0.0	21.0	20.10	20.02	19.72	0.0	22.0
		1	99	18.91	**19.21**	18.67	0.0	21.0	20.01	**20.49**	19.61	0.0	22.0
		50	0	19.22	19.27	18.94	0.0	21.0	20.26	20.34	19.96	0.0	22.0
		50	24	19.11	19.30	18.91	0.0	21.0	20.25	20.34	19.93	0.0	22.0
		50	50	19.15	**19.32**	18.88	0.0	21.0	20.14	**20.37**	19.88	0.0	22.0
		100	0	19.13	19.31	18.83	0.0	21.0	20.08	20.26	19.95	0.0	22.0
	16QAM	1	0	19.49	19.27	18.98	0.0	21.0	20.49	19.89	20.20	0.0	22.0
		1	49	19.24	19.31	18.51	0.0	21.0	20.23	20.30	19.80	0.0	22.0
		1	99	18.85	19.54	18.54	0.0	21.0	19.95	20.36	19.72	0.0	22.0
		50	0	19.15	19.27	18.77	0.0	21.0	20.23	20.30	19.89	0.0	22.0
		50	24	19.07	19.28	18.85	0.0	21.0	20.15	20.28	20.01	0.0	22.0
		50	50	19.16	19.28	18.73	0.0	21.0	20.10	20.34	19.82	0.0	22.0
		100	0	19.10	19.26	18.81	0.0	21.0	20.08	20.23	19.85	0.0	22.0
	64QAM	1	0	19.49	19.19	18.68	0.0	21.0	20.35	19.97	19.85	0.0	22.0
		1	49	19.16	19.10	18.63	0.0	21.0	20.21	20.39	19.98	0.0	22.0
		1	99	18.96	19.54	18.71	0.0	21.0	20.15	20.71	19.85	0.0	22.0
		50	0	19.19	19.20	18.80	0.0	21.0	20.23	19.81	19.51	0.0	22.0
		50	24	19.08	19.21	18.84	0.0	21.0	20.12	19.84	19.50	0.0	22.0
		50	50	19.12	19.25	18.81	0.0	21.0	20.10	19.76	19.52	0.0	22.0
		100	0	19.08	19.18	18.75	0.0	21.0	20.16	19.77	19.53	0.0	22.0
	256QAM	1	0	17.81	17.58	17.39	2.0	19.0	18.03	18.03	17.41	3.0	19.0
		1	49	17.24	17.78	17.29	2.0	19.0	17.83	17.51	17.33	3.0	19.0
		1	99	17.37	17.74	17.00	2.0	19.0	17.79	17.69	17.35	3.0	19.0
		50	0	17.62	17.72	17.35	2.0	19.0	17.62	17.74	17.39	3.0	19.0
		50	24	17.57	17.68	17.31	2.0	19.0	17.71	17.81	17.31	3.0	19.0
		50	50	17.59	17.70	17.21	2.0	19.0	17.54	17.86	17.21	3.0	19.0
		100	0	17.53	17.77	17.29	2.0	19.0	17.65	17.89	17.41	3.0	19.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				18675	18900	19125			18675	18900	19125		
				1857.5 MHz	1880 MHz	1902.5 MHz			1857.5 MHz	1880 MHz	1902.5 MHz		
15 MHz	QPSK	1	0	18.95	19.10	18.65	0.0	21.0	20.30	20.23	19.87	0.0	22.0
		1	37	18.96	19.21	18.78	0.0	21.0	20.05	20.24	19.64	0.0	22.0
		1	74	18.93	19.22	18.61	0.0	21.0	20.07	20.27	19.64	0.0	22.0
		36	0	19.08	19.26	18.86	0.0	21.0	20.14	20.29	19.87	0.0	22.0
		36	20	19.07	19.28	18.80	0.0	21.0	20.12	20.27	19.81	0.0	22.0
		36	39	18.96	19.31	18.72	0.0	21.0	20.12	20.32	19.72	0.0	22.0
		75	0	18.95	19.17	18.80	0.0	21.0	20.09	20.31	19.89	0.0	22.0
	16QAM	1	0	19.18	19.41	18.67	0.0	21.0	19.66	20.49	19.51	0.0	22.0
		1	37	19.02	19.67	18.73	0.0	21.0	20.10	20.59	19.77	0.0	22.0
		1	74	19.21	19.13	18.75	0.0	21.0	19.98	20.33	19.87	0.0	22.0
		36	0	19.11	19.26	18.74	0.0	21.0	20.19	20.22	19.78	0.0	22.0
		36	20	19.09	19.27	18.67	0.0	21.0	20.05	20.18	19.76	0.0	22.0
		36	39	18.95	19.24	18.65	0.0	21.0	20.04	20.26	19.74	0.0	22.0
		75	0	18.90	19.24	18.73	0.0	21.0	20.11	20.28	19.77	0.0	22.0
	64QAM	1	0	19.10	18.96	18.91	0.0	21.0	20.42	20.28	20.15	0.0	22.0
		1	37	19.27	19.20	19.21	0.0	21.0	20.31	20.54	19.81	0.0	22.0
		1	74	19.10	19.54	18.53	0.0	21.0	20.06	20.27	19.53	0.0	22.0
		36	0	19.03	19.27	18.85	0.0	21.0	19.74	19.67	19.53	0.0	22.0
		36	20	18.93	19.18	18.64	0.0	21.0	19.62	19.70	19.56	0.0	22.0
		36	39	18.90	19.17	18.71	0.0	21.0	19.52	19.77	19.58	0.0	22.0
		75	0	19.04	19.21	18.77	0.0	21.0	19.61	19.77	19.54	0.0	22.0
	256QAM	1	0	17.68	17.87	17.49	2.0	19.0	17.73	17.94	17.64	3.0	19.0
		1	37	17.59	17.64	17.45	2.0	19.0	18.03	17.99	17.56	3.0	19.0
		1	74	17.38	17.94	17.30	2.0	19.0	17.81	18.04	17.31	3.0	19.0
		36	0	17.60	17.70	17.19	2.0	19.0	17.70	17.72	17.34	3.0	19.0
		36	20	17.50	17.73	17.17	2.0	19.0	17.57	17.74	17.31	3.0	19.0
		36	39	17.51	17.64	17.16	2.0	19.0	17.60	17.79	17.23	3.0	19.0
		75	0	17.48	17.70	17.22	2.0	19.0	17.51	17.73	17.25	3.0	19.0

LTE Band 2 (Ant. B) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				18650	18900	19150			18650	18900	19150		
				1855 MHz	1880 MHz	1905 MHz			1855 MHz	1880 MHz	1905 MHz		
10 MHz	QPSK	1	0	19.08	19.03	18.75	0.0	21.0	20.02	20.10	19.71	0.0	22.0
		1	25	18.79	19.01	18.57	0.0	21.0	19.96	20.14	19.72	0.0	22.0
		1	49	18.93	19.12	18.59	0.0	21.0	20.09	20.27	19.73	0.0	22.0
		25	0	19.07	19.29	18.79	0.0	21.0	20.12	20.30	19.85	0.0	22.0
		25	12	18.97	19.33	18.69	0.0	21.0	20.02	20.25	19.75	0.0	22.0
		25	25	18.93	19.25	18.62	0.0	21.0	20.06	20.26	19.71	0.0	22.0
		50	0	19.04	19.20	18.71	0.0	21.0	20.12	20.33	19.77	0.0	22.0
	16QAM	1	0	18.77	19.28	19.10	0.0	21.0	20.24	19.94	20.12	0.0	22.0
		1	25	18.97	18.76	18.61	0.0	21.0	20.23	20.23	19.65	0.0	22.0
		1	49	18.93	19.46	18.57	0.0	21.0	19.97	20.46	19.54	0.0	22.0
		25	0	19.14	19.24	18.72	0.0	21.0	20.09	20.24	19.80	0.0	22.0
		25	12	18.88	19.19	18.67	0.0	21.0	20.08	20.24	19.77	0.0	22.0
		25	25	18.88	19.20	18.72	0.0	21.0	20.13	20.35	19.68	0.0	22.0
		50	0	18.95	19.25	18.77	0.0	21.0	20.01	20.27	19.75	0.0	22.0
	64QAM	1	0	19.00	19.09	18.72	0.0	21.0	19.91	20.32	19.83	0.0	22.0
		1	25	18.69	19.14	18.59	0.0	21.0	19.87	20.36	19.79	0.0	22.0
		1	49	19.14	19.17	18.72	0.0	21.0	19.87	20.09	19.90	0.0	22.0
		25	0	19.08	19.20	18.78	0.0	21.0	19.56	19.67	19.57	0.0	22.0
		25	12	18.99	19.17	18.76	0.0	21.0	19.50	19.77	19.51	0.0	22.0
		25	25	19.02	19.18	18.60	0.0	21.0	19.55	19.68	19.56	0.0	22.0
		50	0	18.94	19.20	18.75	0.0	21.0	19.55	19.73	19.52	0.0	22.0
	256QAM	1	0	17.62	17.85	16.99	2.0	19.0	17.32	18.44	17.35	3.0	19.0
		1	25	17.13	17.67	16.94	2.0	19.0	17.84	18.01	17.06	3.0	19.0
		1	49	17.30	17.67	16.91	2.0	19.0	17.41	18.09	17.10	3.0	19.0
		25	0	17.55	17.73	17.18	2.0	19.0	17.54	17.77	17.28	3.0	19.0
		25	12	17.37	17.64	17.19	2.0	19.0	17.43	17.75	17.13	3.0	19.0
		25	25	17.45	17.62	17.13	2.0	19.0	17.41	17.77	17.15	3.0	19.0
		50	0	17.46	17.65	17.28	2.0	19.0	17.50	17.67	17.23	3.0	19.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				18625	18900	19175			18625	18900	19175		
				1852.5 MHz	1880 MHz	1907.5 MHz			1852.5 MHz	1880 MHz	1907.5 MHz		
5 MHz	QPSK	1	0	18.84	19.14	18.63	0.0	21.0	19.97	20.16	19.67	0.0	22.0
		1	12	18.82	19.16	18.58	0.0	21.0	20.12	20.05	19.62	0.0	22.0
		1	24	18.91	19.19	18.50	0.0	21.0	19.78	20.15	19.51	0.0	22.0
		12	0	18.86	19.19	18.56	0.0	21.0	20.00	20.22	19.73	0.0	22.0
		12	7	18.86	19.13	18.61	0.0	21.0	19.88	20.25	19.69	0.0	22.0
		12	13	18.92	19.24	18.63	0.0	21.0	19.93	20.25	19.62	0.0	22.0
		25	0	18.93	19.22	18.62	0.0	21.0	19.95	20.34	19.72	0.0	22.0
	16QAM	1	0	19.12	19.16	18.62	0.0	21.0	20.06	20.16	19.50	0.0	22.0
		1	12	19.15	19.58	19.01	0.0	21.0	20.47	20.21	19.91	0.0	22.0
		1	24	18.95	19.26	18.56	0.0	21.0	19.91	20.31	19.57	0.0	22.0
		12	0	18.92	19.12	18.62	0.0	21.0	19.95	20.26	19.66	0.0	22.0
		12	7	18.81	19.01	18.53	0.0	21.0	20.01	20.15	19.68	0.0	22.0
		12	13	18.85	19.09	18.58	0.0	21.0	20.02	20.17	19.59	0.0	22.0
		25	0	18.87	19.16	18.56	0.0	21.0	19.99	20.28	19.68	0.0	22.0
	64QAM	1	0	18.76	19.62	18.61	0.0	21.0	19.67	20.14	19.96	0.0	22.0
		1	12	19.40	19.29	19.10	0.0	21.0	20.02	20.47	19.83	0.0	22.0
		1	24	18.96	19.29	18.56	0.0	21.0	19.69	20.32	19.72	0.0	22.0
		12	0	18.93	19.13	18.58	0.0	21.0	19.50	19.65	19.53	0.0	22.0
		12	7	18.87	19.21	18.57	0.0	21.0	19.56	19.70	19.54	0.0	22.0
		12	13	18.70	19.08	18.51	0.0	21.0	19.56	19.67	19.52	0.0	22.0
		25	0	18.89	19.08	18.58	0.0	21.0	19.58	19.73	19.58	0.0	22.0
	256QAM	1	0	17.58	17.70	17.19	2.0	19.0	17.70	18.04	17.46	3.0	19.0
		1	12	18.04	17.95	17.20	2.0	19.0	17.62	17.85	17.23	3.0	19.0
		1	24	17.70	17.79	17.29	2.0	19.0	17.26	17.74	16.93	3.0	19.0
		12	0	17.39	17.62	17.02	2.0	19.0	17.38	17.68	17.11	3.0	19.0
		12	7	17.46	17.55	17.04	2.0	19.0	17.48	17.60	17.07	3.0	19.0
		12	13	17.25	17.63	17.03	2.0	19.0	17.33	17.71	17.12	3.0	19.0
		25	0	17.37	17.68	17.15	2.0	19.0	17.50	17.76	17.25	3.0	19.0

LTE Band 2 (Ant. B) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				18615	18900	19185			18615	18900	19185		
				1851.5 MHz	1880 MHz	1908.5 MHz			1851.5 MHz	1880 MHz	1908.5 MHz		
3 MHz	QPSK	1	0	18.83	19.07	18.56	0.0	21.0	20.00	20.22	19.59	0.0	22.0
		1	8	18.75	18.99	18.59	0.0	21.0	19.86	20.12	19.58	0.0	22.0
		1	14	18.75	19.21	18.58	0.0	21.0	19.95	20.20	19.62	0.0	22.0
		8	0	18.86	19.08	18.53	0.0	21.0	19.90	20.21	19.60	0.0	22.0
		8	4	18.85	19.11	18.61	0.0	21.0	19.87	20.22	19.69	0.0	22.0
		8	7	18.84	19.21	18.64	0.0	21.0	19.98	20.22	19.65	0.0	22.0
		15	0	18.91	19.10	18.58	0.0	21.0	19.95	20.21	19.65	0.0	22.0
	16QAM	1	0	19.05	19.11	18.79	0.0	21.0	20.16	20.30	19.88	0.0	22.0
		1	8	18.66	18.68	18.75	0.0	21.0	20.24	20.15	19.70	0.0	22.0
		1	14	18.83	19.01	18.54	0.0	21.0	19.89	20.02	19.87	0.0	22.0
		8	0	18.76	19.10	18.52	0.0	21.0	19.89	20.32	19.52	0.0	22.0
		8	4	18.86	19.19	18.61	0.0	21.0	19.86	20.28	19.55	0.0	22.0
		8	7	19.00	19.02	18.75	0.0	21.0	19.92	20.27	19.59	0.0	22.0
		15	0	18.89	19.18	18.52	0.0	21.0	19.90	20.20	19.52	0.0	22.0
	64QAM	1	0	18.83	19.14	18.85	0.0	21.0	19.54	20.25	19.72	0.0	22.0
		1	8	19.20	19.08	18.56	0.0	21.0	20.21	19.87	19.79	0.0	22.0
		1	14	18.88	19.33	18.63	0.0	21.0	19.83	20.22	19.54	0.0	22.0
		8	0	18.79	19.04	18.57	0.0	21.0	19.53	19.54	19.56	0.0	22.0
		8	4	18.93	19.21	18.54	0.0	21.0	19.53	19.82	19.57	0.0	22.0
		8	7	18.90	19.15	18.58	0.0	21.0	19.59	19.58	19.54	0.0	22.0
		15	0	18.76	19.05	18.52	0.0	21.0	19.51	19.75	19.55	0.0	22.0
	256QAM	1	0	17.20	17.61	17.34	2.0	19.0	17.22	17.33	17.45	3.0	19.0
		1	8	17.61	17.93	17.33	2.0	19.0	17.27	17.93	17.40	3.0	19.0
		1	14	17.56	17.93	17.17	2.0	19.0	17.39	17.72	16.65	3.0	19.0
		8	0	17.45	17.70	17.08	2.0	19.0	17.55	17.77	17.03	3.0	19.0
		8	4	17.41	17.55	17.02	2.0	19.0	17.35	17.52	16.85	3.0	19.0
		8	7	17.17	17.75	16.96	2.0	19.0	17.42	17.83	17.14	3.0	19.0
		15	0	17.38	17.58	17.04	2.0	19.0	17.45	17.68	17.03	3.0	19.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				18607	18900	19193			18607	18900	19193		
				1850.7 MHz	1880 MHz	1909.3 MHz			1850.7 MHz	1880 MHz	1909.3 MHz		
1.4 MHz	QPSK	1	0	18.84	19.11	18.61	0.0	21.0	19.81	20.13	19.64	0.0	22.0
		1	3	18.79	18.96	18.52	0.0	21.0	19.78	20.09	19.51	0.0	22.0
		1	5	18.84	19.02	18.51	0.0	21.0	19.88	20.24	19.70	0.0	22.0
		3	0	18.85	19.13	18.59	0.0	21.0	19.86	20.24	19.60	0.0	22.0
		3	1	18.84	19.07	18.53	0.0	21.0	19.94	20.18	19.70	0.0	22.0
		3	3	18.77	19.07	18.55	0.0	21.0	19.82	20.18	19.59	0.0	22.0
		6	0	18.74	19.08	18.64	0.0	21.0	19.87	20.19	19.60	0.0	22.0
	16QAM	1	0	19.15	19.16	18.84	0.0	21.0	20.08	20.17	19.87	0.0	22.0
		1	3	18.69	19.05	18.80	0.0	21.0	19.54	20.50	19.82	0.0	22.0
		1	5	18.72	19.42	18.55	0.0	21.0	20.22	20.22	19.52	0.0	22.0
		3	0	18.97	19.32	18.84	0.0	21.0	19.93	20.17	19.51	0.0	22.0
		3	1	18.84	18.98	18.50	0.0	21.0	19.87	20.16	19.80	0.0	22.0
		3	3	18.96	18.95	18.54	0.0	21.0	19.79	20.25	19.50	0.0	22.0
		6	0	18.68	19.13	18.53	0.0	21.0	19.86	20.30	19.57	0.0	22.0
	64QAM	1	0	19.16	19.20	18.59	0.0	21.0	19.52	20.10	19.58	0.0	22.0
		1	3	18.59	19.07	18.59	0.0	21.0	19.63	20.25	19.62	0.0	22.0
		1	5	19.13	19.39	18.84	0.0	21.0	20.19	20.33	19.53	0.0	22.0
		3	0	18.91	19.10	18.65	0.0	21.0	19.93	20.21	19.64	0.0	22.0
		3	1	18.70	18.96	18.65	0.0	21.0	19.77	20.14	19.71	0.0	22.0
		3	3	19.02	19.01	18.54	0.0	21.0	19.95	20.10	19.59	0.0	22.0
		6	0	18.81	19.21	18.61	0.0	21.0	19.51	19.64	19.53	0.0	22.0
	256QAM	1	0	17.68	17.34	17.37	2.0	19.0	17.72	17.69	17.28	3.0	19.0
		1	3	17.21	17.45	17.09	2.0	19.0	17.75	17.39	17.22	3.0	19.0
		1	5	17.48	17.80	17.13	2.0	19.0	17.41	17.79	17.20	3.0	19.0
		3	0	17.36	17.75	16.88	2.0	19.0	17.28	17.50	17.22	3.0	19.0
		3	1	17.36	17.68	17.24	2.0	19.0	17.35	17.67	17.04	3.0	19.0
		3	3	17.31	17.46	17.02	2.0	19.0	17.55	17.46	17.16	3.0	19.0
		6	0	17.26	17.47	17.06	2.0	19.0	17.46	17.86	17.07	3.0	19.0

LTE Band 25 (Ant. A) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
				RSI = 0,3					RSI = 4				
				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	19.10	19.26	19.03	0.0	21.0	22.11	22.38	22.09	0.0	24.0
		1	49	19.09	19.28	18.90	0.0	21.0	21.97	22.36	21.91	0.0	24.0
		1	99	18.99	**19.30**	19.02	0.0	21.0	22.00	**22.40**	22.07	0.0	24.0
		50	0	18.96	19.34	19.02	0.0	21.0	22.13	22.41	22.17	0.0	24.0
		50	24	19.00	19.29	19.02	0.0	21.0	22.23	22.35	22.12	0.0	24.0
		50	50	19.13	**19.37**	18.99	0.0	21.0	22.17	**22.43**	22.06	0.0	24.0
		100	0	19.05	19.32	18.97	0.0	21.0	22.14	22.32	22.15	0.0	24.0
	16QAM	1	0	19.26	19.29	18.75	0.0	21.0	21.98	22.73	22.41	0.0	24.0
		1	49	19.69	19.45	19.40	0.0	21.0	22.32	22.75	22.21	0.0	24.0
		1	99	19.14	19.48	19.26	0.0	21.0	22.33	22.52	22.10	0.0	24.0
		50	0	19.04	19.28	19.03	0.0	21.0	21.79	22.06	21.72	1.0	23.0
		50	24	19.03	19.33	19.02	0.0	21.0	21.65	22.05	21.70	1.0	23.0
		50	50	18.97	19.38	19.00	0.0	21.0	21.79	22.01	21.75	1.0	23.0
		100	0	18.92	19.34	18.96	0.0	21.0	21.71	22.03	21.71	1.0	23.0
	64QAM	1	0	19.46	19.44	19.12	0.0	21.0	22.34	22.49	21.66	1.0	23.0
		1	49	19.57	19.30	18.82	0.0	21.0	21.83	22.40	21.62	1.0	23.0
		1	99	19.03	19.47	18.84	0.0	21.0	21.89	22.03	21.71	1.0	23.0
		50	0	19.05	19.41	19.09	0.0	21.0	20.76	21.05	20.74	2.0	22.0
		50	24	18.99	19.30	19.04	0.0	21.0	20.79	21.09	20.75	2.0	22.0
		50	50	19.11	19.41	19.03	0.0	21.0	20.76	21.07	20.70	2.0	22.0
		100	0	19.05	19.32	18.99	0.0	21.0	20.69	20.93	20.79	2.0	22.0
	256QAM	1	0	19.15	18.99	18.65	1.0	20.0	18.78	19.38	18.60	4.0	20.0
		1	49	19.02	18.78	18.89	1.0	20.0	18.61	19.16	18.42	4.0	20.0
		1	99	18.90	19.00	18.32	1.0	20.0	18.52	18.83	18.30	4.0	20.0
		50	0	18.43	18.77	18.50	1.0	20.0	18.68	18.99	18.75	4.0	20.0
		50	24	18.48	18.88	18.52	1.0	20.0	18.72	19.01	18.61	4.0	20.0
		50	50	18.51	18.89	18.55	1.0	20.0	18.71	19.12	18.64	4.0	20.0
		100	0	18.60	18.94	18.52	1.0	20.0	18.76	19.04	18.72	4.0	20.0
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	19.04	19.41	18.90	0.0	21.0	22.08	22.49	22.10	0.0	24.0
		1	37	18.97	19.42	18.89	0.0	21.0	22.05	22.53	22.27	0.0	24.0
		1	74	19.05	19.29	18.95	0.0	21.0	22.19	22.46	22.03	0.0	24.0
		36	0	19.06	19.33	19.05	0.0	21.0	22.14	22.41	22.18	0.0	24.0
		36	20	19.13	19.34	18.99	0.0	21.0	22.18	22.35	22.15	0.0	24.0
		36	39	19.02	19.29	18.96	0.0	21.0	22.14	22.46	22.18	0.0	24.0
		75	0	19.12	19.41	18.99	0.0	21.0	22.18	22.43	22.16	0.0	24.0
	16QAM	1	0	19.12	18.96	19.17	0.0	21.0	22.03	22.43	22.21	0.0	24.0
		1	37	19.32	19.71	19.64	0.0	21.0	22.37	22.40	22.01	0.0	24.0
		1	74	18.89	19.21	18.75	0.0	21.0	21.94	22.21	22.22	0.0	24.0
		36	0	19.10	19.41	19.07	0.0	21.0	21.85	21.97	21.75	1.0	23.0
		36	20	19.08	19.23	19.01	0.0	21.0	21.76	21.92	21.82	1.0	23.0
		36	39	19.10	19.33	18.98	0.0	21.0	21.78	21.93	21.72	1.0	23.0
		75	0	19.02	19.34	19.01	0.0	21.0	21.79	22.00	21.80	1.0	23.0
	64QAM	1	0	19.41	19.15	19.20	0.0	21.0	22.23	22.41	21.77	1.0	23.0
		1	37	19.56	19.34	19.03	0.0	21.0	21.93	22.32	21.75	1.0	23.0
		1	74	19.18	19.85	19.07	0.0	21.0	21.86	22.36	21.75	1.0	23.0
		36	0	19.11	19.33	18.91	0.0	21.0	20.71	21.02	20.85	2.0	22.0
		36	20	19.12	19.32	18.99	0.0	21.0	20.79	21.03	20.86	2.0	22.0
		36	39	19.11	19.26	18.86	0.0	21.0	20.74	21.01	20.74	2.0	22.0
		75	0	18.98	19.32	19.01	0.0	21.0	20.72	21.03	20.72	2.0	22.0
	256QAM	1	0	18.79	18.89	18.40	1.0	20.0	19.05	18.71	18.44	4.0	20.0
		1	37	18.45	18.62	18.22	1.0	20.0	19.24	18.87	19.08	4.0	20.0
		1	74	18.67	18.99	18.94	1.0	20.0	18.84	19.53	19.06	4.0	20.0
		36	0	18.61	18.85	18.51	1.0	20.0	18.79	19.14	18.84	4.0	20.0
		36	20	18.61	18.87	18.47	1.0	20.0	18.79	19.03	18.75	4.0	20.0
		36	39	18.64	18.86	18.47	1.0	20.0	18.68	19.02	18.70	4.0	20.0
		75	0	18.51	18.80	18.49	1.0	20.0	18.77	19.07	18.80	4.0	20.0

LTE Band 25 (Ant. A) 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	19.08	19.37	18.91	0.0	21.0	22.02	22.38	22.14	0.0	24.0
		1	25	18.99	19.25	18.86	0.0	21.0	21.89	22.24	21.96	0.0	24.0
		1	49	19.08	19.27	18.88	0.0	21.0	22.02	22.32	22.08	0.0	24.0
		25	0	19.13	19.33	18.94	0.0	21.0	22.15	22.44	22.20	0.0	24.0
		25	12	19.05	19.36	18.98	0.0	21.0	22.04	22.41	22.25	0.0	24.0
		25	25	19.05	19.32	18.93	0.0	21.0	22.13	22.39	22.18	0.0	24.0
		50	0	19.05	19.24	18.90	0.0	21.0	22.17	22.45	22.23	0.0	24.0
	16QAM	1	0	18.90	19.66	18.98	0.0	21.0	21.75	22.14	22.01	0.0	24.0
		1	25	18.87	19.35	18.86	0.0	21.0	22.41	22.49	21.54	0.0	24.0
		1	49	19.04	19.16	18.50	0.0	21.0	22.43	22.76	21.79	0.0	24.0
		25	0	19.10	19.29	18.99	0.0	21.0	21.77	21.97	21.71	1.0	23.0
		25	12	18.95	19.27	18.90	0.0	21.0	21.67	22.09	21.80	1.0	23.0
		25	25	19.11	19.31	19.00	0.0	21.0	21.72	21.96	21.79	1.0	23.0
		50	0	19.05	19.32	18.99	0.0	21.0	21.76	22.04	21.83	1.0	23.0
	64QAM	1	0	19.07	19.27	18.91	0.0	21.0	21.57	22.35	21.90	1.0	23.0
		1	25	18.74	19.22	19.05	0.0	21.0	21.83	22.31	21.52	1.0	23.0
		1	49	18.98	19.49	19.36	0.0	21.0	21.84	22.26	21.87	1.0	23.0
		25	0	18.93	19.39	18.98	0.0	21.0	20.77	21.09	20.78	2.0	22.0
		25	12	19.10	19.45	18.89	0.0	21.0	20.71	21.10	20.84	2.0	22.0
		25	25	19.06	19.38	18.83	0.0	21.0	20.76	21.09	20.67	2.0	22.0
		50	0	19.02	19.33	18.96	0.0	21.0	20.83	20.99	20.81	2.0	22.0
	256QAM	1	0	18.60	18.66	18.80	1.0	20.0	18.08	19.05	18.96	4.0	20.0
		1	25	19.25	19.03	18.65	1.0	20.0	18.61	18.88	19.08	4.0	20.0
		1	49	18.84	18.76	18.63	1.0	20.0	18.98	19.35	18.78	4.0	20.0
		25	0	18.51	18.80	18.55	1.0	20.0	18.72	19.08	18.74	4.0	20.0
		25	12	18.59	18.76	18.38	1.0	20.0	18.69	19.11	18.74	4.0	20.0
		25	25	18.49	18.79	18.42	1.0	20.0	18.62	19.05	18.79	4.0	20.0
		50	0	18.63	18.80	18.40	1.0	20.0	18.67	19.10	18.78	4.0	20.0
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	19.14	19.32	18.90	0.0	21.0	21.98	22.32	21.98	0.0	24.0
		1	12	18.94	19.42	19.02	0.0	21.0	22.12	22.37	21.99	0.0	24.0
		1	24	19.14	19.49	18.95	0.0	21.0	22.12	22.27	21.97	0.0	24.0
		12	0	19.16	19.45	19.07	0.0	21.0	22.03	22.44	22.12	0.0	24.0
		12	7	19.13	19.41	18.97	0.0	21.0	22.01	22.45	22.07	0.0	24.0
		12	13	19.11	19.41	18.99	0.0	21.0	22.02	22.43	22.13	0.0	24.0
		25	0	19.13	19.45	18.99	0.0	21.0	22.09	22.42	22.12	0.0	24.0
	16QAM	1	0	19.74	19.47	19.20	0.0	21.0	22.19	22.30	22.44	0.0	24.0
		1	12	19.62	19.27	19.00	0.0	21.0	22.25	22.10	22.60	0.0	24.0
		1	24	19.35	19.07	19.10	0.0	21.0	21.85	22.45	21.93	0.0	24.0
		12	0	19.29	19.34	19.06	0.0	21.0	21.67	21.98	21.75	1.0	23.0
		12	7	19.10	19.41	19.00	0.0	21.0	21.52	22.04	21.65	1.0	23.0
		12	13	19.11	19.38	18.97	0.0	21.0	21.66	22.02	21.68	1.0	23.0
		25	0	19.27	19.40	19.07	0.0	21.0	21.63	22.06	21.74	1.0	23.0
	64QAM	1	0	19.36	19.57	19.08	0.0	21.0	21.62	21.78	21.83	1.0	23.0
		1	12	19.44	19.51	19.45	0.0	21.0	21.71	22.24	21.93	1.0	23.0
		1	24	19.15	19.51	19.13	0.0	21.0	21.65	22.16	21.80	1.0	23.0
		12	0	19.15	19.50	19.15	0.0	21.0	20.51	21.10	20.84	2.0	22.0
		12	7	19.29	19.39	18.91	0.0	21.0	20.68	20.99	20.71	2.0	22.0
		12	13	19.21	19.35	19.00	0.0	21.0	20.74	20.95	20.68	2.0	22.0
		25	0	19.15	19.38	18.95	0.0	21.0	20.70	20.98	20.61	2.0	22.0
	256QAM	1	0	18.48	19.16	18.75	1.0	20.0	19.03	19.05	18.48	4.0	20.0
		1	12	19.00	18.98	18.95	1.0	20.0	18.59	19.39	18.74	4.0	20.0
		1	24	18.79	19.05	18.56	1.0	20.0	18.55	18.94	19.06	4.0	20.0
		12	0	18.76	18.95	18.50	1.0	20.0	18.64	19.17	18.86	4.0	20.0
		12	7	18.81	18.87	18.55	1.0	20.0	18.75	18.99	18.73	4.0	20.0
		12	13	18.68	18.96	18.48	1.0	20.0	18.82	18.97	18.64	4.0	20.0
		25	0	18.78	18.97	18.47	1.0	20.0	18.55	19.07	18.70	4.0	20.0

LTE Band 25 (Ant. A) 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	19.04	19.38	18.97	0.0	21.0	21.91	22.33	22.17	0.0	24.0
		1	8	19.02	19.31	18.86	0.0	21.0	22.00	22.17	22.15	0.0	24.0
		1	14	19.04	19.29	18.89	0.0	21.0	21.89	22.30	22.09	0.0	24.0
		8	0	19.15	19.36	19.03	0.0	21.0	22.09	22.43	22.07	0.0	24.0
		8	4	19.18	19.34	19.03	0.0	21.0	21.96	22.32	22.08	0.0	24.0
		8	7	19.19	19.40	19.02	0.0	21.0	21.98	22.38	22.04	0.0	24.0
		15	0	19.18	19.33	19.03	0.0	21.0	22.03	22.39	22.03	0.0	24.0
	16QAM	1	0	19.23	19.49	19.28	0.0	21.0	22.50	22.89	22.03	0.0	24.0
		1	8	18.91	19.37	18.88	0.0	21.0	21.82	22.33	21.99	0.0	24.0
		1	14	18.97	19.26	19.19	0.0	21.0	22.29	22.56	22.38	0.0	24.0
		8	0	19.21	19.33	19.01	0.0	21.0	21.60	22.01	21.62	1.0	23.0
		8	4	19.09	19.48	19.06	0.0	21.0	21.78	22.01	21.77	1.0	23.0
		8	7	19.18	19.45	18.98	0.0	21.0	21.53	21.90	21.82	1.0	23.0
		15	0	19.04	19.38	19.05	0.0	21.0	21.60	21.99	21.76	1.0	23.0
	64QAM	1	0	19.17	19.50	19.17	0.0	21.0	21.88	22.35	21.87	1.0	23.0
		1	8	19.41	19.43	19.18	0.0	21.0	22.08	22.19	21.34	1.0	23.0
		1	14	19.12	19.33	19.18	0.0	21.0	21.63	21.91	21.51	1.0	23.0
		8	0	19.10	19.53	18.97	0.0	21.0	20.54	20.95	20.84	2.0	22.0
		8	4	19.09	19.50	19.05	0.0	21.0	20.70	21.02	20.71	2.0	22.0
		8	7	19.28	19.42	19.05	0.0	21.0	20.71	21.13	20.73	2.0	22.0
		15	0	19.07	19.30	19.04	0.0	21.0	20.66	20.99	20.65	2.0	22.0
	256QAM	1	0	18.48	18.84	18.58	1.0	20.0	18.75	19.25	18.82	4.0	20.0
		1	8	19.05	19.10	18.77	1.0	20.0	18.66	19.04	18.88	4.0	20.0
		1	14	19.04	18.98	18.69	1.0	20.0	19.14	18.87	18.67	4.0	20.0
		8	0	18.82	18.87	18.43	1.0	20.0	18.74	18.96	18.73	4.0	20.0
		8	4	18.57	18.93	18.45	1.0	20.0	18.66	18.86	18.57	4.0	20.0
		8	7	18.66	18.89	18.66	1.0	20.0	18.74	19.01	18.84	4.0	20.0
		15	0	18.71	18.81	18.52	1.0	20.0	18.70	19.00	18.76	4.0	20.0
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	18.98	19.27	19.07	0.0	21.0	22.00	22.24	22.10	0.0	24.0
		1	3	18.87	19.29	18.85	0.0	21.0	21.78	22.25	21.91	0.0	24.0
		1	5	18.96	19.24	18.97	0.0	21.0	22.03	22.27	22.01	0.0	24.0
		3	0	19.15	19.24	18.99	0.0	21.0	21.95	22.21	22.11	0.0	24.0
		3	1	18.97	19.33	19.00	0.0	21.0	22.00	22.19	22.03	0.0	24.0
		3	3	19.03	19.23	18.93	0.0	21.0	21.94	22.26	21.99	0.0	24.0
		6	0	19.07	19.27	18.93	0.0	21.0	21.89	22.26	22.08	0.0	24.0
	16QAM	1	0	19.26	19.32	18.89	0.0	21.0	22.50	22.53	22.04	0.0	24.0
		1	3	19.37	19.30	18.79	0.0	21.0	22.63	22.36	21.70	0.0	24.0
		1	5	19.08	19.65	18.86	0.0	21.0	22.32	22.23	22.00	0.0	24.0
		3	0	19.16	19.29	18.86	0.0	21.0	22.10	22.24	21.89	1.0	23.0
		3	1	19.00	19.58	19.04	0.0	21.0	22.17	22.40	21.97	1.0	23.0
		3	3	19.10	19.29	19.21	0.0	21.0	21.86	22.43	22.27	1.0	23.0
		6	0	18.95	19.39	18.89	0.0	21.0	21.56	21.89	21.60	1.0	23.0
	64QAM	1	0	19.32	18.98	18.75	0.0	21.0	21.68	22.07	21.92	1.0	23.0
		1	3	18.77	18.97	19.17	0.0	21.0	21.89	21.95	21.78	1.0	23.0
		1	5	19.25	19.52	19.03	0.0	21.0	21.64	22.02	21.93	1.0	23.0
		3	0	19.11	19.68	19.16	0.0	21.0	21.94	21.13	21.54	2.0	22.0
		3	1	19.41	19.32	19.06	0.0	21.0	21.73	21.23	21.70	2.0	22.0
		3	3	19.05	19.44	19.03	0.0	21.0	21.36	21.98	21.55	2.0	22.0
		6	0	19.04	19.31	19.09	0.0	21.0	20.65	20.86	20.67	2.0	22.0
	256QAM	1	0	18.91	19.22	18.60	1.0	20.0	18.91	18.77	18.75	4.0	20.0
		1	3	18.49	19.01	18.51	1.0	20.0	18.32	18.86	18.66	4.0	20.0
		1	5	18.77	19.02	18.51	1.0	20.0	18.78	19.24	18.42	4.0	20.0
		3	0	18.75	19.00	18.44	1.0	20.0	18.84	18.98	18.90	4.0	20.0
		3	1	18.50	18.92	18.18	1.0	20.0	18.80	18.79	18.82	4.0	20.0
		3	3	18.47	18.75	18.38	1.0	20.0	18.69	19.04	18.98	4.0	20.0
		6	0	18.66	18.94	18.27	1.0	20.0	18.77	19.04	18.76	4.0	20.0

LTE Band 66 (Ant. A) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
				RSI = 0, 3					RSI = 4				
				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	20.24	20.30	19.73	0.0	22.0	23.01	23.80	23.11	0.0	25.5
		1	49	20.38	**20.48**	19.76	0.0	22.0	23.65	**23.94**	23.18	0.0	25.5
		1	99	20.23	20.38	19.85	0.0	22.0	23.81	23.83	23.42	0.0	25.5
		50	0	20.26	**20.51**	19.79	0.0	22.0	22.56	**22.94**	22.40	1.0	24.5
		50	24	20.35	20.42	19.84	0.0	22.0	22.92	22.83	22.51	1.0	24.5
		50	50	20.26	20.50	19.91	0.0	22.0	22.91	22.81	22.46	1.0	24.5
		100	0	20.32	20.38	19.73	0.0	22.0	23.05	22.84	22.37	1.0	24.5
	16QAM	1	0	20.34	20.56	20.21	0.0	22.0	22.18	22.96	22.64	1.0	24.5
		1	49	19.98	20.60	19.69	0.0	22.0	23.19	22.93	22.43	1.0	24.5
		1	99	20.61	20.30	19.55	0.0	22.0	22.94	22.54	22.65	1.0	24.5
		50	0	20.36	20.42	19.81	0.0	22.0	21.85	21.91	21.44	2.0	23.5
		50	24	20.28	20.46	19.74	0.0	22.0	22.21	21.84	21.45	2.0	23.5
		50	50	20.38	20.44	19.81	0.0	22.0	22.40	21.90	21.40	2.0	23.5
		100	0	20.29	20.37	19.80	0.0	22.0	22.33	21.80	21.44	2.0	23.5
	64QAM	1	0	20.26	20.43	19.61	0.0	22.0	21.38	22.03	21.65	2.0	23.5
		1	49	20.45	20.61	19.93	0.0	22.0	22.08	21.71	21.98	2.0	23.5
		1	99	20.18	20.71	20.10	0.0	22.0	22.43	22.05	21.75	2.0	23.5
		50	0	20.27	20.47	19.80	0.0	22.0	21.12	20.82	20.50	3.0	22.5
		50	24	20.35	20.45	19.84	0.0	22.0	21.36	20.86	20.48	3.0	22.5
		50	50	20.38	20.51	19.87	0.0	22.0	21.48	20.77	20.39	3.0	22.5
		100	0	20.32	20.43	19.76	0.0	22.0	21.38	20.82	20.41	3.0	22.5
	256QAM	1	0	19.04	19.32	18.15	1.5	20.5	19.09	18.81	18.59	5.0	20.5
		1	49	18.68	19.00	18.38	1.5	20.5	19.44	19.08	18.42	5.0	20.5
		1	99	19.11	19.14	18.48	1.5	20.5	19.87	18.82	18.70	5.0	20.5
		50	0	18.74	18.90	18.33	1.5	20.5	19.36	18.86	18.41	5.0	20.5
		50	24	18.81	19.03	18.30	1.5	20.5	19.45	18.78	18.46	5.0	20.5
		50	50	18.89	18.94	18.39	1.5	20.5	19.44	18.84	18.40	5.0	20.5
		100	0	18.85	18.98	18.25	1.5	20.5	19.51	18.78	18.42	5.0	20.5
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	20.30	20.40	19.77	0.0	22.0	23.03	23.83	23.26	0.0	25.5
		1	37	20.14	20.33	19.69	0.0	22.0	23.76	23.70	23.45	0.0	25.5
		1	74	20.23	20.51	19.74	0.0	22.0	24.12	23.65	23.37	0.0	25.5
		36	0	20.30	20.47	19.73	0.0	22.0	22.66	22.86	22.39	1.0	24.5
		36	20	20.31	20.53	19.66	0.0	22.0	23.05	22.79	22.36	1.0	24.5
		36	39	20.25	20.51	19.74	0.0	22.0	23.31	22.81	22.37	1.0	24.5
		75	0	20.32	20.45	19.65	0.0	22.0	23.00	22.79	22.40	1.0	24.5
	16QAM	1	0	20.43	20.48	19.85	0.0	22.0	22.91	22.80	22.16	1.0	24.5
		1	37	19.94	20.82	19.77	0.0	22.0	22.93	22.75	22.07	1.0	24.5
		1	74	20.50	20.65	20.01	0.0	22.0	23.44	22.91	22.63	1.0	24.5
		36	0	20.25	20.44	19.59	0.0	22.0	21.95	21.87	21.41	2.0	23.5
		36	20	20.30	20.53	19.76	0.0	22.0	22.31	21.85	21.41	2.0	23.5
		36	39	20.32	20.50	19.75	0.0	22.0	22.39	21.85	21.39	2.0	23.5
		75	0	20.22	20.43	19.71	0.0	22.0	22.27	21.86	21.37	2.0	23.5
	64QAM	1	0	20.66	20.85	20.26	0.0	22.0	21.74	21.61	21.20	2.0	23.5
		1	37	20.44	20.43	19.87	0.0	22.0	22.52	22.37	21.59	2.0	23.5
		1	74	20.38	20.66	20.21	0.0	22.0	22.47	22.02	21.23	2.0	23.5
		36	0	20.29	20.44	19.60	0.0	22.0	21.23	20.81	20.26	3.0	22.5
		36	20	20.21	20.52	19.64	0.0	22.0	21.45	20.78	20.38	3.0	22.5
		36	39	20.37	20.55	19.76	0.0	22.0	21.38	20.88	20.35	3.0	22.5
		75	0	20.30	20.46	19.66	0.0	22.0	21.34	20.72	20.35	3.0	22.5
	256QAM	1	0	19.02	18.94	18.34	1.5	20.5	19.50	18.91	18.73	5.0	20.5
		1	37	18.97	18.81	18.23	1.5	20.5	19.43	19.17	18.57	5.0	20.5
		1	74	19.16	19.11	18.40	1.5	20.5	19.72	18.95	18.43	5.0	20.5
		36	0	18.84	18.95	18.13	1.5	20.5	19.36	18.87	18.41	5.0	20.5
		36	20	18.78	18.96	18.21	1.5	20.5	19.42	18.76	18.38	5.0	20.5
		36	39	18.86	19.08	18.24	1.5	20.5	19.43	18.88	18.39	5.0	20.5
		75	0	18.81	18.98	18.31	1.5	20.5	19.42	18.73	18.45	5.0	20.5

LTE Band 66 (Ant. A) 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	20.18	20.36	19.60	0.0	22.0	23.57	23.83	23.19	0.0	25.5
		1	25	20.15	20.34	19.57	0.0	22.0	23.89	23.66	23.12	0.0	25.5
		1	49	20.32	20.34	19.76	0.0	22.0	24.13	23.80	23.20	0.0	25.5
		25	0	20.28	20.44	19.69	0.0	22.0	22.99	22.81	22.37	1.0	24.5
		25	12	20.33	20.38	19.62	0.0	22.0	23.16	22.82	22.37	1.0	24.5
		25	25	20.25	20.42	19.62	0.0	22.0	23.33	22.85	22.27	1.0	24.5
		50	0	20.26	20.43	19.60	0.0	22.0	23.15	22.88	22.33	1.0	24.5
	16QAM	1	0	19.97	20.79	19.74	0.0	22.0	23.00	23.17	22.92	1.0	24.5
		1	25	20.62	20.06	19.52	0.0	22.0	23.34	23.06	22.46	1.0	24.5
		1	49	20.74	20.42	20.26	0.0	22.0	23.57	22.75	22.18	1.0	24.5
		25	0	20.28	20.47	19.65	0.0	22.0	22.20	21.88	21.25	2.0	23.5
		25	12	20.31	20.44	19.62	0.0	22.0	22.43	21.84	21.33	2.0	23.5
		25	25	20.33	20.48	19.69	0.0	22.0	22.40	21.79	21.27	2.0	23.5
		50	0	20.27	20.44	19.62	0.0	22.0	22.38	21.81	21.39	2.0	23.5
	64QAM	1	0	20.34	20.84	19.57	0.0	22.0	22.28	22.05	21.10	2.0	23.5
		1	25	20.34	20.65	19.94	0.0	22.0	22.54	21.91	21.57	2.0	23.5
		1	49	20.39	20.25	19.71	0.0	22.0	22.47	22.20	21.63	2.0	23.5
		25	0	20.39	20.47	19.62	0.0	22.0	21.47	20.82	20.33	3.0	22.5
		25	12	20.19	20.42	19.66	0.0	22.0	21.48	20.84	20.26	3.0	22.5
		25	25	20.37	20.46	19.65	0.0	22.0	21.36	20.71	20.33	3.0	22.5
		50	0	20.34	20.47	19.63	0.0	22.0	21.46	20.82	20.40	3.0	22.5
	256QAM	1	0	18.87	19.26	18.06	1.5	20.5	18.96	18.81	18.71	5.0	20.5
		1	25	18.91	19.17	18.37	1.5	20.5	19.35	18.88	18.10	5.0	20.5
		1	49	19.45	18.93	18.30	1.5	20.5	19.32	18.96	18.03	5.0	20.5
		25	0	18.81	19.00	18.09	1.5	20.5	19.44	18.81	18.30	5.0	20.5
		25	12	18.71	18.89	18.17	1.5	20.5	19.47	18.72	18.32	5.0	20.5
		25	25	18.81	19.04	18.13	1.5	20.5	19.44	18.87	18.28	5.0	20.5
		50	0	18.93	18.93	18.12	1.5	20.5	19.49	18.80	18.44	5.0	20.5

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	20.35	20.43	19.59	0.0	22.0	23.79	23.84	23.28	0.0	25.5
		1	12	20.29	20.36	19.51	0.0	22.0	23.77	23.69	23.18	0.0	25.5
		1	24	20.40	20.39	19.59	0.0	22.0	23.85	23.67	23.22	0.0	25.5
		12	0	20.31	20.45	19.60	0.0	22.0	23.10	22.74	22.28	1.0	24.5
		12	7	20.27	20.38	19.58	0.0	22.0	23.15	22.76	22.23	1.0	24.5
		12	13	20.33	20.37	19.63	0.0	22.0	23.21	22.83	22.25	1.0	24.5
		25	0	20.34	20.38	19.60	0.0	22.0	23.15	22.84	22.33	1.0	24.5
	16QAM	1	0	20.29	20.58	19.52	0.0	22.0	23.03	22.60	22.16	1.0	24.5
		1	12	20.05	20.48	19.53	0.0	22.0	23.03	23.14	22.48	1.0	24.5
		1	24	20.53	20.72	19.90	0.0	22.0	23.28	22.92	22.73	1.0	24.5
		12	0	20.28	20.38	19.64	0.0	22.0	22.35	21.79	21.31	2.0	23.5
		12	7	20.35	20.41	19.64	0.0	22.0	22.50	21.74	21.24	2.0	23.5
		12	13	20.41	20.35	19.52	0.0	22.0	22.35	21.74	21.28	2.0	23.5
		25	0	20.34	20.41	19.58	0.0	22.0	22.40	21.82	21.23	2.0	23.5
	64QAM	1	0	20.10	20.37	19.84	0.0	22.0	22.31	22.09	21.38	2.0	23.5
		1	12	20.34	21.05	19.53	0.0	22.0	22.44	21.89	21.70	2.0	23.5
		1	24	20.70	20.67	19.64	0.0	22.0	22.44	21.94	21.06	2.0	23.5
		12	0	20.43	20.57	19.58	0.0	22.0	21.39	20.68	20.23	3.0	22.5
		12	7	20.16	20.58	19.63	0.0	22.0	21.46	20.80	20.29	3.0	22.5
		12	13	20.24	20.41	19.50	0.0	22.0	21.38	20.75	20.26	3.0	22.5
		25	0	20.35	20.33	19.61	0.0	22.0	21.43	20.79	20.31	3.0	22.5
	256QAM	1	0	18.78	18.69	18.24	1.5	20.5	19.64	18.95	18.29	5.0	20.5
		1	12	19.22	19.31	18.43	1.5	20.5	19.54	19.16	18.45	5.0	20.5
		1	24	19.10	19.39	18.39	1.5	20.5	19.81	18.62	18.56	5.0	20.5
		12	0	18.84	18.86	18.26	1.5	20.5	19.44	18.78	18.24	5.0	20.5
		12	7	18.68	18.93	18.01	1.5	20.5	19.41	18.83	18.31	5.0	20.5
		12	13	18.73	18.95	18.11	1.5	20.5	19.39	18.86	18.27	5.0	20.5
		25	0	18.74	18.92	18.11	1.5	20.5	19.42	18.80	18.28	5.0	20.5

LTE Band 66 (Ant. A) 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	20.30	20.43	19.54	0.0	22.0	23.78	23.61	23.15	0.0	25.5
		1	8	20.13	20.32	19.51	0.0	22.0	23.79	23.60	23.15	0.0	25.5
		1	14	20.23	20.40	19.65	0.0	22.0	23.78	23.73	23.27	0.0	25.5
		8	0	20.34	20.46	19.58	0.0	22.0	23.14	22.81	22.17	1.0	24.5
		8	4	20.26	20.36	19.50	0.0	22.0	23.17	22.82	22.28	1.0	24.5
		8	7	20.29	20.38	19.54	0.0	22.0	23.18	22.72	22.28	1.0	24.5
		15	0	20.35	20.46	19.51	0.0	22.0	23.18	22.72	22.28	1.0	24.5
	16QAM	1	0	20.92	20.05	19.80	0.0	22.0	23.16	23.30	22.17	1.0	24.5
		1	8	20.48	20.46	19.53	0.0	22.0	23.57	22.56	22.58	1.0	24.5
		1	14	20.24	21.11	19.53	0.0	22.0	22.37	22.75	22.87	1.0	24.5
		8	0	20.28	20.53	19.56	0.0	22.0	22.33	21.79	21.17	2.0	23.5
		8	4	20.32	20.46	19.59	0.0	22.0	22.45	21.82	21.27	2.0	23.5
		8	7	20.36	20.26	19.59	0.0	22.0	22.40	21.76	21.23	2.0	23.5
		15	0	20.32	20.37	19.58	0.0	22.0	22.38	21.77	21.27	2.0	23.5
	64QAM	1	0	20.46	20.55	19.70	0.0	22.0	22.16	22.04	22.83	2.0	23.5
		1	8	20.43	20.51	19.52	0.0	22.0	22.52	21.57	21.21	2.0	23.5
		1	14	20.50	20.61	19.70	0.0	22.0	22.37	21.95	21.25	2.0	23.5
		8	0	20.42	20.49	19.50	0.0	22.0	21.29	20.81	20.20	3.0	22.5
		8	4	20.17	20.48	19.75	0.0	22.0	21.44	20.86	20.26	3.0	22.5
		8	7	20.36	20.45	19.52	0.0	22.0	21.35	20.73	20.23	3.0	22.5
		15	0	20.23	20.39	19.53	0.0	22.0	21.28	20.60	20.27	3.0	22.5
	256QAM	1	0	18.96	19.16	18.00	1.5	20.5	19.50	18.77	18.29	5.0	20.5
		1	8	18.86	19.01	18.37	1.5	20.5	19.31	18.92	18.19	5.0	20.5
		1	14	18.98	18.87	18.34	1.5	20.5	19.59	18.64	18.39	5.0	20.5
		8	0	18.89	19.00	18.19	1.5	20.5	19.23	18.93	18.26	5.0	20.5
		8	4	18.73	18.83	18.07	1.5	20.5	19.29	18.83	18.22	5.0	20.5
		8	7	18.76	18.78	18.23	1.5	20.5	19.45	18.72	18.28	5.0	20.5
		15	0	18.71	18.85	18.20	1.5	20.5	19.44	18.73	18.14	5.0	20.5
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	20.10	20.43	19.58	0.0	22.0	23.81	23.64	23.18	0.0	25.5
		1	3	20.13	20.29	19.53	0.0	22.0	23.76	23.62	23.18	0.0	25.5
		1	5	20.18	20.31	19.51	0.0	22.0	23.82	23.70	23.21	0.0	25.5
		3	0	20.27	20.31	19.51	0.0	22.0	23.72	23.72	23.22	0.0	25.5
		3	1	20.24	20.33	19.50	0.0	22.0	23.80	23.73	23.20	0.0	25.5
		3	3	20.17	20.32	19.57	0.0	22.0	23.76	23.60	23.12	0.0	25.5
		6	0	20.27	20.35	19.56	0.0	22.0	23.07	22.68	22.26	1.0	24.5
	16QAM	1	0	20.83	20.27	19.89	0.0	22.0	23.26	22.85	22.34	1.0	24.5
		1	3	20.26	20.27	19.55	0.0	22.0	22.95	22.76	22.38	1.0	24.5
		1	5	19.98	20.28	19.90	0.0	22.0	23.08	23.16	22.09	1.0	24.5
		3	0	20.30	20.43	19.51	0.0	22.0	23.00	22.74	22.36	1.0	24.5
		3	1	20.34	20.44	19.51	0.0	22.0	23.27	22.71	22.16	1.0	24.5
		3	3	20.10	20.36	19.52	0.0	22.0	22.99	22.80	22.36	1.0	24.5
		6	0	20.37	20.40	19.57	0.0	22.0	22.40	21.63	21.13	2.0	23.5
	64QAM	1	0	20.01	20.01	19.55	0.0	22.0	22.29	21.83	21.24	2.0	23.5
		1	3	20.48	20.58	19.51	0.0	22.0	22.56	21.46	21.48	2.0	23.5
		1	5	20.17	20.31	19.88	0.0	22.0	22.62	21.72	21.16	2.0	23.5
		3	0	20.26	20.55	19.62	0.0	22.0	22.48	21.83	21.51	2.0	23.5
		3	1	20.42	20.34	19.63	0.0	22.0	22.27	21.81	21.40	2.0	23.5
		3	3	20.27	20.52	19.66	0.0	22.0	22.60	21.68	21.25	2.0	23.5
		6	0	20.18	20.47	19.68	0.0	22.0	21.25	20.89	20.26	3.0	22.5
	256QAM	1	0	19.12	19.08	18.09	1.5	20.5	19.02	19.16	18.36	5.0	20.5
		1	3	19.05	18.71	18.01	1.5	20.5	19.32	18.99	18.09	5.0	20.5
		1	5	19.01	18.80	18.16	1.5	20.5	19.18	18.93	18.46	5.0	20.5
		3	0	18.55	19.02	18.30	1.5	20.5	19.14	18.73	18.42	5.0	20.5
		3	1	18.78	18.83	18.01	1.5	20.5	19.20	18.95	18.34	5.0	20.5
		3	3	18.66	19.15	18.02	1.5	20.5	19.33	18.68	18.18	5.0	20.5
		6	0	18.79	18.82	18.00	1.5	20.5	19.30	18.80	18.07	5.0	20.5

LTE Band 66 (Ant. B) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)				
				RSI = 0, 3, 4				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				132072	132322	132572		
				1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	**20.14**	19.71	19.67	0.0	22.0
		1	49	20.06	19.84	19.71	0.0	22.0
		1	99	20.12	19.64	19.76	0.0	22.0
		50	0	**20.16**	19.83	19.77	0.0	22.0
		50	24	20.14	19.83	19.71	0.0	22.0
		50	50	20.09	19.78	19.76	0.0	22.0
		100	0	20.09	19.74	19.76	0.0	22.0
	16QAM	1	0	20.35	20.01	19.63	0.0	22.0
		1	49	20.34	19.77	19.53	0.0	22.0
		1	99	19.80	20.15	19.59	0.0	22.0
		50	0	20.13	19.75	19.64	0.0	22.0
		50	24	20.14	19.85	19.71	0.0	22.0
		50	50	20.09	19.77	19.64	0.0	22.0
		100	0	20.07	19.77	19.61	0.0	22.0
	64QAM	1	0	19.91	19.54	19.55	0.0	22.0
		1	49	20.15	19.65	19.90	0.0	22.0
		1	99	20.02	19.89	19.59	0.0	22.0
		50	0	20.16	19.74	19.68	0.0	22.0
		50	24	20.12	19.87	19.68	0.0	22.0
		50	50	20.21	19.75	19.70	0.0	22.0
		100	0	20.16	19.73	19.65	0.0	22.0
	256QAM	1	0	19.37	18.76	18.91	2.0	20.0
		1	49	19.17	18.78	18.66	2.0	20.0
		1	99	19.23	18.81	18.68	2.0	20.0
		50	0	19.09	18.81	18.78	2.0	20.0
		50	24	19.10	18.78	18.85	2.0	20.0
		50	50	19.09	18.78	18.58	2.0	20.0
		100	0	19.12	18.72	18.74	2.0	20.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				132047	132322	132597		
				1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	QPSK	1	0	20.00	19.78	19.64	0.0	22.0
		1	37	19.94	19.72	19.67	0.0	22.0
		1	74	20.02	19.81	19.55	0.0	22.0
		36	0	20.13	19.79	19.59	0.0	22.0
		36	20	20.11	19.74	19.65	0.0	22.0
		36	39	20.10	19.82	19.61	0.0	22.0
		75	0	20.02	19.86	19.74	0.0	22.0
	16QAM	1	0	20.34	19.86	20.06	0.0	22.0
		1	37	19.71	19.65	19.52	0.0	22.0
		1	74	20.10	20.26	19.55	0.0	22.0
		36	0	20.15	19.79	19.66	0.0	22.0
		36	20	20.08	19.78	19.65	0.0	22.0
		36	39	20.09	19.68	19.53	0.0	22.0
		75	0	20.12	19.81	19.66	0.0	22.0
	64QAM	1	0	20.12	20.10	19.53	0.0	22.0
		1	37	19.91	19.78	19.90	0.0	22.0
		1	74	20.03	19.62	19.50	0.0	22.0
		36	0	20.04	19.65	19.58	0.0	22.0
		36	20	20.13	19.71	19.59	0.0	22.0
		36	39	20.07	19.75	19.63	0.0	22.0
		75	0	20.09	19.75	19.62	0.0	22.0
	256QAM	1	0	19.43	18.98	19.13	2.0	20.0
		1	37	19.69	18.59	18.83	2.0	20.0
		1	74	19.31	19.03	18.76	2.0	20.0
		36	0	19.12	18.78	18.62	2.0	20.0
		36	20	19.11	18.78	18.67	2.0	20.0
		36	39	19.07	18.85	18.60	2.0	20.0
		75	0	19.01	18.78	18.66	2.0	20.0

LTE Band 66 (Ant. B) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				132022	132322	132622		
				1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	19.97	19.74	19.54	0.0	22.0
		1	25	19.88	19.67	19.54	0.0	22.0
		1	49	20.00	19.68	19.59	0.0	22.0
		25	0	20.06	19.80	19.65	0.0	22.0
		25	12	20.03	19.85	19.67	0.0	22.0
		25	25	19.98	19.80	19.67	0.0	22.0
		50	0	20.02	19.77	19.62	0.0	22.0
	16QAM	1	0	20.43	20.39	19.71	0.0	22.0
		1	25	19.53	19.64	19.51	0.0	22.0
		1	49	19.96	19.95	19.98	0.0	22.0
		25	0	20.03	19.80	19.59	0.0	22.0
		25	12	19.92	19.77	19.59	0.0	22.0
		25	25	19.95	19.74	19.59	0.0	22.0
		50	0	19.97	19.73	19.59	0.0	22.0
	64QAM	1	0	20.05	19.84	19.59	0.0	22.0
		1	25	20.32	19.55	19.54	0.0	22.0
		1	49	19.90	19.85	19.59	0.0	22.0
		25	0	20.04	19.65	19.61	0.0	22.0
		25	12	20.11	19.78	19.60	0.0	22.0
		25	25	20.07	19.83	19.60	0.0	22.0
		50	0	20.08	19.79	19.62	0.0	22.0
	256QAM	1	0	19.28	18.93	18.79	2.0	20.0
		1	25	18.76	18.95	18.83	2.0	20.0
		1	49	19.09	19.22	18.77	2.0	20.0
		25	0	18.98	18.84	18.74	2.0	20.0
		25	12	19.11	18.83	18.68	2.0	20.0
		25	25	19.03	18.78	18.58	2.0	20.0
		50	0	18.99	18.78	18.60	2.0	20.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				131997	132322	132647		
				1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	20.01	19.71	19.51	0.0	22.0
		1	12	20.07	19.71	19.52	0.0	22.0
		1	24	19.94	19.82	19.51	0.0	22.0
		12	0	19.94	19.74	19.54	0.0	22.0
		12	7	19.91	19.75	19.58	0.0	22.0
		12	13	19.92	19.77	19.52	0.0	22.0
		25	0	19.94	19.76	19.55	0.0	22.0
	16QAM	1	0	19.82	19.60	19.87	0.0	22.0
		1	12	19.54	19.53	19.58	0.0	22.0
		1	24	19.74	19.93	19.85	0.0	22.0
		12	0	19.89	19.70	19.57	0.0	22.0
		12	7	19.94	19.77	19.50	0.0	22.0
		12	13	20.11	19.80	19.57	0.0	22.0
		25	0	19.90	19.84	19.54	0.0	22.0
	64QAM	1	0	20.23	19.97	19.72	0.0	22.0
		1	12	20.40	19.64	20.14	0.0	22.0
		1	24	19.97	19.89	19.51	0.0	22.0
		12	0	19.79	19.65	19.50	0.0	22.0
		12	7	20.03	19.82	19.54	0.0	22.0
		12	13	19.91	19.69	19.52	0.0	22.0
		25	0	20.03	19.71	19.56	0.0	22.0
	256QAM	1	0	18.95	19.39	18.89	2.0	20.0
		1	12	19.35	18.64	18.65	2.0	20.0
		1	24	19.13	19.19	18.34	2.0	20.0
		12	0	18.87	18.70	18.68	2.0	20.0
		12	7	18.86	18.81	18.48	2.0	20.0
		12	13	19.04	18.77	18.62	2.0	20.0
		25	0	19.08	18.68	18.60	2.0	20.0

LTE Band 66 (Ant. B) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				131987	132322	132657		
				1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	19.88	19.80	19.53	0.0	22.0
		1	8	19.72	19.55	19.58	0.0	22.0
		1	14	19.88	19.72	19.52	0.0	22.0
		8	0	19.98	19.67	19.59	0.0	22.0
		8	4	19.81	19.73	19.53	0.0	22.0
		8	7	19.92	19.69	19.55	0.0	22.0
		15	0	19.89	19.73	19.54	0.0	22.0
	16QAM	1	0	19.54	19.89	19.57	0.0	22.0
		1	8	19.85	19.84	19.51	0.0	22.0
		1	14	19.77	19.76	19.93	0.0	22.0
		8	0	19.91	19.72	19.54	0.0	22.0
		8	4	19.99	19.72	19.64	0.0	22.0
		8	7	19.85	19.92	19.67	0.0	22.0
		15	0	19.85	19.73	19.55	0.0	22.0
	64QAM	1	0	19.96	19.86	20.22	0.0	22.0
		1	8	19.93	19.55	19.59	0.0	22.0
		1	14	19.85	19.81	19.81	0.0	22.0
		8	0	19.71	19.68	19.61	0.0	22.0
		8	4	20.02	19.72	19.53	0.0	22.0
		8	7	19.94	19.70	19.63	0.0	22.0
		15	0	19.89	19.70	19.55	0.0	22.0
	256QAM	1	0	18.77	18.95	18.88	2.0	20.0
		1	8	18.66	18.37	18.71	2.0	20.0
		1	14	18.82	18.50	18.34	2.0	20.0
		8	0	18.92	18.63	18.67	2.0	20.0
		8	4	18.84	18.69	18.66	2.0	20.0
		8	7	19.00	18.74	18.58	2.0	20.0
		15	0	19.13	18.64	18.66	2.0	20.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				131979	132322	132665		
				1710.7 MHz	1745 MHz	1779.3 MHz		
1.4 MHz	QPSK	1	0	19.86	19.72	19.62	0.0	22.0
		1	3	19.74	19.68	19.51	0.0	22.0
		1	5	19.84	19.65	19.52	0.0	22.0
		3	0	19.97	19.71	19.51	0.0	22.0
		3	1	19.88	19.63	19.56	0.0	22.0
		3	3	19.86	19.62	19.50	0.0	22.0
		6	0	19.82	19.67	19.52	0.0	22.0
	16QAM	1	0	19.83	19.84	19.58	0.0	22.0
		1	3	20.08	19.78	19.52	0.0	22.0
		1	5	20.13	19.75	19.58	0.0	22.0
		3	0	19.95	19.70	19.59	0.0	22.0
		3	1	20.26	19.69	19.54	0.0	22.0
		3	3	19.84	19.84	19.53	0.0	22.0
		6	0	19.87	19.66	19.64	0.0	22.0
	64QAM	1	0	19.92	20.11	19.51	0.0	22.0
		1	3	20.07	19.77	19.58	0.0	22.0
		1	5	19.97	19.53	19.56	0.0	22.0
		3	0	19.94	19.56	19.57	0.0	22.0
		3	1	20.08	19.70	19.57	0.0	22.0
		3	3	19.81	19.88	19.59	0.0	22.0
		6	0	19.90	19.71	19.50	0.0	22.0
	256QAM	1	0	18.85	18.68	18.79	2.0	20.0
		1	3	19.18	18.88	18.62	2.0	20.0
		1	5	19.15	18.82	18.40	2.0	20.0
		3	0	18.88	18.69	18.59	2.0	20.0
		3	1	18.77	18.93	18.73	2.0	20.0
		3	3	19.13	18.54	18.21	2.0	20.0
		6	0	18.93	18.72	18.53	2.0	20.0

LTE Band 5 (Ant. A) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
				RSI = 0, 3					RSI = 4				
				Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				20450	20525	20600			20450	20525	20600		
				829 MHz	836.5 MHz	844 MHz			829 MHz	836.5 MHz	844 MHz		
10 MHz	QPSK	1	0		**22.93**		0.0	24.0		**22.57**		0.0	23.5
		1	25		22.87		0.0	24.0		22.37		0.0	23.5
		1	49		22.79		0.0	24.0		22.32		0.0	23.5
		25	0		**22.92**		0.0	24.0		**22.56**		0.0	23.5
		25	12		22.81		0.0	24.0		22.55		0.0	23.5
		25	25		22.88		0.0	24.0		22.51		0.0	23.5
		50	0		22.94		0.0	24.0		22.55		0.0	23.5
	16QAM	1	0		23.11		0.0	24.0		22.28		0.0	23.5
		1	25		23.09		0.0	24.0		22.35		0.0	23.5
		1	49		23.33		0.0	24.0		22.39		0.0	23.5
		25	0		22.03		0.5	23.5		22.20		0.0	23.5
		25	12		22.04		0.5	23.5		22.14		1.0	22.5
		25	25		21.90		0.5	23.5		22.01		1.0	22.5
		50	0		21.91		0.5	23.5		22.11		1.0	22.5
	64QAM	1	0		22.08		0.5	23.5		22.00		1.0	22.5
		1	25		22.10		0.5	23.5		22.35		1.0	22.5
		1	49		21.84		0.5	23.5		21.82		1.0	22.5
		25	0		20.86		1.5	22.5		21.17		1.0	22.5
		25	12		20.99		1.5	22.5		21.12		1.0	22.5
		25	25		21.00		1.5	22.5		21.09		1.0	22.5
		50	0		20.83		1.5	22.5		21.17		1.0	22.5
	256QAM	1	0		18.81		3.5	20.5		19.27		3.0	20.5
		1	25		19.04		3.5	20.5		19.30		3.0	20.5
		1	49		19.02		3.5	20.5		18.99		3.0	20.5
		25	0		18.89		3.5	20.5		19.09		3.0	20.5
		25	12		18.81		3.5	20.5		19.10		3.0	20.5
		25	25		18.85		3.5	20.5		19.16		3.0	20.5
		50	0		18.91		3.5	20.5		19.03		3.0	20.5
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				20425	20525	20625			20425	20525	20625		
				826.5 MHz	836.5 MHz	846.5 MHz			826.5 MHz	836.5 MHz	846.5 MHz		
5 MHz	QPSK	1	0	22.72	22.86	22.73	0.0	24.0	22.38	22.55	22.40	0.0	23.5
		1	12	22.81	22.91	22.91	0.0	24.0	22.55	22.46	22.34	0.0	23.5
		1	24	22.69	22.79	22.70	0.0	24.0	22.25	22.40	22.31	0.0	23.5
		12	0	22.80	22.83	22.71	0.0	24.0	22.34	22.47	22.37	0.0	23.5
		12	7	22.80	22.91	22.74	0.0	24.0	22.35	22.55	22.40	0.0	23.5
		12	13	22.77	22.90	22.76	0.0	24.0	22.33	22.44	22.41	0.0	23.5
		25	0	22.78	22.90	22.72	0.0	24.0	22.43	22.54	22.38	0.0	23.5
	16QAM	1	0	22.73	23.07	22.90	0.0	24.0	22.72	22.96	22.09	0.0	23.5
		1	12	22.97	23.06	22.35	0.0	24.0	22.50	22.87	22.28	0.0	23.5
		1	24	22.89	23.30	22.60	0.0	24.0	22.79	22.49	22.21	0.0	23.5
		12	0	21.80	22.01	21.76	0.5	23.5	21.93	22.14	21.95	0.0	23.5
		12	7	21.86	22.01	21.75	0.5	23.5	21.94	22.06	21.96	1.0	22.5
		12	13	21.84	21.93	21.78	0.5	23.5	22.01	22.12	21.89	1.0	22.5
		25	0	21.79	21.92	21.77	0.5	23.5	22.04	22.11	21.97	1.0	22.5
	64QAM	1	0	22.58	22.07	21.95	0.5	23.5	22.03	22.05	21.89	1.0	22.5
		1	12	21.98	22.11	22.09	0.5	23.5	22.10	22.43	22.31	1.0	22.5
		1	24	21.67	21.86	21.81	0.5	23.5	21.98	22.16	21.93	1.0	22.5
		12	0	20.72	20.86	20.67	1.5	22.5	20.97	21.05	21.05	1.0	22.5
		12	7	20.77	20.98	20.79	1.5	22.5	21.02	20.95	21.00	1.0	22.5
		12	13	20.68	21.02	20.79	1.5	22.5	20.97	21.06	20.89	1.0	22.5
		25	0	20.79	20.81	20.74	1.5	22.5	21.02	21.04	20.99	1.0	22.5
	256QAM	1	0	18.83	18.77	18.92	3.5	20.5	18.97	19.02	19.06	3.0	20.5
		1	12	18.78	19.07	18.71	3.5	20.5	19.27	19.13	18.92	3.0	20.5
		1	24	18.51	19.00	18.67	3.5	20.5	18.84	18.95	18.72	3.0	20.5
		12	0	18.94	18.86	18.77	3.5	20.5	18.85	19.12	19.01	3.0	20.5
		12	7	18.81	18.79	18.77	3.5	20.5	18.86	19.00	18.88	3.0	20.5
		12	13	18.71	18.85	18.70	3.5	20.5	19.06	19.16	19.00	3.0	20.5
		25	0	18.75	18.88	18.70	3.5	20.5	18.91	19.15	18.94	3.0	20.5

LTE Band 5 (Ant. A) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				20415	20525	20635			20415	20525	20635		
				825.5 MHz	836.5 MHz	847.5 MHz			825.5 MHz	836.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	22.74	22.86	22.65	0.0	24.0	22.23	22.45	22.27	0.0	23.5
		1	8	22.70	22.82	22.58	0.0	24.0	22.27	22.36	22.12	0.0	23.5
		1	14	22.75	22.74	22.60	0.0	24.0	22.18	22.39	22.24	0.0	23.5
		8	0	22.75	22.91	22.67	0.0	24.0	22.37	22.38	22.38	0.0	23.5
		8	4	22.81	22.84	22.70	0.0	24.0	22.32	22.33	22.21	0.0	23.5
		8	7	22.76	22.89	22.78	0.0	24.0	22.37	22.48	22.29	0.0	23.5
		15	0	22.70	22.82	22.71	0.0	24.0	22.32	22.53	22.31	0.0	23.5
	16QAM	1	0	22.59	22.89	22.53	0.0	24.0	22.76	22.35	22.40	0.0	23.5
		1	8	22.86	22.93	22.29	0.0	24.0	21.84	22.41	22.72	0.0	23.5
		1	14	22.89	22.89	22.42	0.0	24.0	22.55	22.22	22.47	0.0	23.5
		8	0	21.77	21.95	21.78	0.5	23.5	22.10	22.07	21.87	0.0	23.5
		8	4	21.69	21.93	21.75	0.5	23.5	22.02	22.23	21.81	1.0	22.5
		8	7	21.87	21.88	21.77	0.5	23.5	22.07	22.14	21.92	1.0	22.5
		15	0	21.68	21.87	21.74	0.5	23.5	21.80	22.04	21.91	1.0	22.5
	64QAM	1	0	21.82	22.21	21.97	0.5	23.5	21.70	22.02	22.29	1.0	22.5
		1	8	21.97	21.86	21.72	0.5	23.5	21.79	22.10	21.84	1.0	22.5
		1	14	21.95	21.94	22.08	0.5	23.5	21.79	22.25	21.74	1.0	22.5
		8	0	20.81	20.84	20.78	1.5	22.5	20.92	20.90	21.00	1.0	22.5
		8	4	20.79	20.99	20.74	1.5	22.5	21.10	21.23	20.86	1.0	22.5
		8	7	20.68	20.88	20.80	1.5	22.5	20.96	21.12	20.89	1.0	22.5
		15	0	20.81	20.78	20.69	1.5	22.5	20.88	21.09	20.89	1.0	22.5
	256QAM	1	0	18.75	19.07	19.33	3.5	20.5	19.10	19.37	19.00	3.0	20.5
		1	8	18.42	19.23	18.82	3.5	20.5	19.07	19.15	19.13	3.0	20.5
		1	14	18.60	18.42	18.64	3.5	20.5	19.11	18.81	18.68	3.0	20.5
		8	0	18.64	19.05	18.68	3.5	20.5	19.01	19.13	18.90	3.0	20.5
		8	4	18.68	18.68	18.70	3.5	20.5	18.94	19.04	18.96	3.0	20.5
		8	7	18.70	18.86	18.79	3.5	20.5	19.01	18.99	18.84	3.0	20.5
		15	0	18.80	18.84	18.78	3.5	20.5	18.86	19.09	18.96	3.0	20.5
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
				20407	20525	20643			20407	20525	20643		
				824.7 MHz	836.5 MHz	848.3 MHz			824.7 MHz	836.5 MHz	848.3 MHz		
1.4 MHz	QPSK	1	0	22.74	22.84	22.57	0.0	24.0	22.24	22.48	22.30	0.0	23.5
		1	3	22.63	22.71	22.59	0.0	24.0	22.19	22.38	22.04	0.0	23.5
		1	5	22.63	22.75	22.70	0.0	24.0	22.24	22.49	22.25	0.0	23.5
		3	0	22.68	22.64	22.73	0.0	24.0	22.35	22.55	22.24	0.0	23.5
		3	1	22.65	22.71	22.62	0.0	24.0	22.24	22.43	22.23	0.0	23.5
		3	3	22.64	22.81	22.69	0.0	24.0	22.20	22.40	22.25	0.0	23.5
		6	0	22.68	22.94	22.69	0.0	24.0	22.13	22.42	22.21	0.0	23.5
	16QAM	1	0	22.72	22.94	22.60	0.0	24.0	22.38	22.43	22.31	0.0	23.5
		1	3	23.06	22.81	23.08	0.0	24.0	21.55	22.41	22.16	0.0	23.5
		1	5	22.43	23.19	22.39	0.0	24.0	22.51	22.52	22.74	0.0	23.5
		3	0	22.90	22.93	22.63	0.5	23.5	22.31	22.55	22.49	0.0	23.5
		3	1	22.86	22.95	22.84	0.5	23.5	22.18	22.46	22.25	1.0	22.5
		3	3	22.46	22.81	22.82	0.5	23.5	22.07	22.36	22.23	1.0	22.5
		6	0	21.71	21.97	21.72	0.5	23.5	21.93	21.92	21.81	1.0	22.5
	64QAM	1	0	21.93	21.97	21.81	0.5	23.5	21.99	22.06	22.11	1.0	22.5
		1	3	21.77	21.88	21.54	0.5	23.5	21.98	22.46	21.58	1.0	22.5
		1	5	22.18	22.09	21.54	0.5	23.5	21.95	22.25	22.05	1.0	22.5
		3	0	21.78	22.03	21.70	1.5	22.5	22.09	21.98	21.84	1.0	22.5
		3	1	21.60	21.77	21.68	1.5	22.5	21.76	22.13	22.00	1.0	22.5
		3	3	21.86	21.98	21.76	1.5	22.5	21.86	22.01	21.88	1.0	22.5
		6	0	20.57	20.64	20.99	1.5	22.5	20.90	21.18	20.85	1.0	22.5
	256QAM	1	0	18.71	18.77	19.12	3.5	20.5	19.26	19.21	18.89	3.0	20.5
		1	3	18.57	18.19	18.74	3.5	20.5	18.61	19.16	18.89	3.0	20.5
		1	5	18.58	18.86	18.87	3.5	20.5	19.33	19.10	18.74	3.0	20.5
		3	0	18.86	19.04	18.68	3.5	20.5	18.98	19.14	18.81	3.0	20.5
		3	1	18.62	18.97	18.53	3.5	20.5	18.91	19.01	18.98	3.0	20.5
		3	3	18.66	18.85	18.56	3.5	20.5	19.13	19.24	19.07	3.0	20.5
		6	0	18.77	18.85	18.80	3.5	20.5	18.81	18.99	18.84	3.0	20.5

LTE Band 26 (Ant. A) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)				
				RSI = 0, 3, 4				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				26765	26865	26965		
				821.5 MHz	831.5 MHz	841.5 MHz		
15 MHz	QPSK	1	0		**24.32**		0.0	25.5
		1	37		24.30		0.0	25.5
		1	74		24.00		0.0	25.5
		36	0		**23.45**		1.0	24.5
		36	20		23.22		1.0	24.5
		36	39		23.12		1.0	24.5
		75	0		23.15		1.0	24.5
	16QAM	1	0		22.69		1.0	24.5
		1	37		23.51		1.0	24.5
		1	74		23.00		1.0	24.5
		36	0		22.23		2.0	23.5
		36	20		22.16		2.0	23.5
		36	39		22.16		2.0	23.5
		75	0		22.28		2.0	23.5
	64QAM	1	0		22.34		2.0	23.5
		1	37		22.27		2.0	23.5
		1	74		22.09		2.0	23.5
		36	0		21.20		3.0	22.5
		36	20		21.16		3.0	22.5
		36	39		21.13		3.0	22.5
		75	0		21.24		3.0	22.5
	256QAM	1	0		19.37		5.0	20.5
		1	37		19.67		5.0	20.5
		1	74		18.99		5.0	20.5
		36	0		19.34		5.0	20.5
		36	20		19.18		5.0	20.5
		36	39		19.09		5.0	20.5
		75	0		19.15		5.0	20.5

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				26740	26865	26990		
				819 MHz	831.5 MHz	844 MHz		
10 MHz	QPSK	1	0	23.83	24.07	24.14	0.0	25.5
		1	25	23.79	23.97	24.05	0.0	25.5
		1	49	23.71	24.13	24.04	0.0	25.5
		25	0	23.01	23.24	23.24	1.0	24.5
		25	12	23.01	23.19	23.15	1.0	24.5
		25	25	22.94	23.16	23.14	1.0	24.5
		50	0	22.97	23.14	23.12	1.0	24.5
	16QAM	1	0	22.63	23.85	23.03	1.0	24.5
		1	25	22.56	22.94	22.98	1.0	24.5
		1	49	22.30	23.12	23.27	1.0	24.5
		25	0	21.92	22.22	22.19	2.0	23.5
		25	12	21.89	22.09	22.10	2.0	23.5
		25	25	21.84	22.13	22.15	2.0	23.5
		50	0	21.95	22.25	22.19	2.0	23.5
	64QAM	1	0	21.80	22.13	22.72	2.0	23.5
		1	25	21.89	22.06	21.70	2.0	23.5
		1	49	21.82	22.18	21.94	2.0	23.5
		25	0	20.95	21.19	21.15	3.0	22.5
		25	12	20.82	21.21	21.17	3.0	22.5
		25	25	20.76	21.15	21.10	3.0	22.5
		50	0	20.90	21.15	21.10	3.0	22.5
	256QAM	1	0	19.17	19.44	19.83	5.0	20.5
		1	25	18.97	18.88	19.24	5.0	20.5
		1	49	19.10	19.31	19.02	5.0	20.5
		25	0	18.87	19.27	19.19	5.0	20.5
		25	12	18.94	19.17	19.07	5.0	20.5
		25	25	18.82	19.10	19.15	5.0	20.5
		50	0	18.87	19.21	19.12	5.0	20.5

LTE Band 26 (Ant. A) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				26715	26865	27015		
				816.5 MHz	831.5 MHz	846.5 MHz		
5 MHz	QPSK	1	0	23.82	24.13	24.03	0.0	25.5
		1	12	23.83	24.14	24.26	0.0	25.5
		1	24	23.65	24.23	23.95	0.0	25.5
		12	0	22.77	23.11	23.00	1.0	24.5
		12	7	22.84	23.14	23.07	1.0	24.5
		12	13	22.80	23.09	23.00	1.0	24.5
		25	0	22.89	23.23	23.04	1.0	24.5
	16QAM	1	0	22.83	23.46	22.53	1.0	24.5
		1	12	22.51	23.12	23.22	1.0	24.5
		1	24	23.05	23.47	22.74	1.0	24.5
		12	0	21.87	22.26	22.05	2.0	23.5
		12	7	21.68	22.19	22.01	2.0	23.5
		12	13	21.88	22.18	22.14	2.0	23.5
		25	0	21.86	22.14	22.04	2.0	23.5
	64QAM	1	0	22.11	21.95	21.98	2.0	23.5
		1	12	22.07	22.02	22.37	2.0	23.5
		1	24	22.13	22.35	21.98	2.0	23.5
		12	0	20.85	21.15	20.96	3.0	22.5
		12	7	20.76	21.15	21.03	3.0	22.5
		12	13	20.81	21.30	21.02	3.0	22.5
		25	0	20.83	21.17	21.03	3.0	22.5
	256QAM	1	0	19.03	19.48	18.95	5.0	20.5
		1	12	18.75	19.23	19.40	5.0	20.5
		1	24	19.03	19.27	19.23	5.0	20.5
		12	0	18.72	19.14	19.08	5.0	20.5
		12	7	18.80	19.10	18.96	5.0	20.5
		12	13	18.85	19.12	19.05	5.0	20.5
		25	0	18.73	19.24	19.01	5.0	20.5

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				26705	26865	27025		
				815.5 MHz	831.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	23.79	24.01	24.01	0.0	25.5
		1	8	23.68	23.97	23.86	0.0	25.5
		1	14	23.74	24.03	23.92	0.0	25.5
		8	0	22.83	23.12	22.97	1.0	24.5
		8	4	22.76	23.14	23.03	1.0	24.5
		8	7	22.74	23.14	23.02	1.0	24.5
		15	0	22.81	23.21	23.01	1.0	24.5
	16QAM	1	0	22.38	22.85	22.65	1.0	24.5
		1	8	23.08	23.34	22.61	1.0	24.5
		1	14	22.96	23.48	23.19	1.0	24.5
		8	0	21.74	22.16	22.11	2.0	23.5
		8	4	21.79	22.25	22.19	2.0	23.5
		8	7	21.81	22.36	21.92	2.0	23.5
		15	0	21.77	22.06	22.02	2.0	23.5
	64QAM	1	0	21.89	22.59	22.10	2.0	23.5
		1	8	21.96	22.22	21.69	2.0	23.5
		1	14	21.96	22.17	22.11	2.0	23.5
		8	0	20.79	21.08	20.95	3.0	22.5
		8	4	20.79	21.13	21.14	3.0	22.5
		8	7	20.83	21.11	20.92	3.0	22.5
		15	0	20.65	21.13	20.97	3.0	22.5
	256QAM	1	0	18.85	18.95	19.62	5.0	20.5
		1	8	18.84	19.31	18.72	5.0	20.5
		1	14	18.98	19.23	19.29	5.0	20.5
		8	0	18.88	19.01	19.10	5.0	20.5
		8	4	18.75	19.02	18.92	5.0	20.5
		8	7	18.95	19.17	18.94	5.0	20.5
		15	0	18.84	19.20	18.98	5.0	20.5

LTE Band 26 (Ant. A) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				26697	26865	27033		
				814.7 MHz	831.5 MHz	848.3 MHz		
1.4 MHz	QPSK	1	0	23.67	23.62	23.86	0.0	25.5
		1	3	23.68	23.66	23.87	0.0	25.5
		1	5	23.71	23.59	23.86	0.0	25.5
		3	0	23.75	23.62	23.94	0.0	25.5
		3	1	23.65	23.59	23.79	0.0	25.5
		3	3	23.74	24.08	23.94	0.0	25.5
		6	0	22.74	23.08	22.95	1.0	24.5
	16QAM	1	0	22.72	22.62	22.97	1.0	24.5
		1	3	23.04	22.39	22.84	1.0	24.5
		1	5	23.21	22.91	23.29	1.0	24.5
		3	0	22.65	23.00	22.88	1.0	24.5
		3	1	22.78	22.92	22.87	1.0	24.5
		3	3	22.57	22.96	22.96	1.0	24.5
		6	0	21.77	22.22	21.96	2.0	23.5
	64QAM	1	0	21.93	22.02	22.03	2.0	23.5
		1	3	21.65	22.44	22.14	2.0	23.5
		1	5	21.70	21.85	22.11	2.0	23.5
		3	0	21.63	22.07	22.14	2.0	23.5
		3	1	21.73	21.97	21.63	2.0	23.5
		3	3	21.64	22.25	21.81	2.0	23.5
		6	0	20.65	20.97	20.95	3.0	22.5
	256QAM	1	0	18.68	19.13	19.09	5.0	20.5
		1	3	18.25	19.07	19.08	5.0	20.5
		1	5	18.87	19.56	19.27	5.0	20.5
		3	0	18.73	19.27	19.08	5.0	20.5
		3	1	18.77	19.16	18.85	5.0	20.5
		3	3	18.54	19.26	19.02	5.0	20.5
		6	0	18.76	19.30	18.84	5.0	20.5

LTE Band 7 (Ant. A) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					Maximum Allowed Average Power (dBm)				
				RSI = 0, 3					RSI = 4				
				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	19.31	19.75	**20.06**	0.0	21.0	21.60	22.46	**22.71**	0.0	24.0
		1	49	19.25	19.67	19.81	0.0	21.0	21.69	22.51	22.50	0.0	24.0
		1	99	19.14	19.81	19.66	0.0	21.0	21.87	22.57	22.41	0.0	24.0
		50	0	19.27	19.91	**20.10**	0.0	21.0	20.96	21.51	**21.76**	1.0	23.0
		50	24	19.23	19.90	19.92	0.0	21.0	20.90	21.57	21.69	1.0	23.0
		50	50	19.16	19.95	19.88	0.0	21.0	20.91	21.55	21.60	1.0	23.0
		100	0	19.18	19.85	19.89	0.0	21.0	20.96	21.58	21.57	1.0	23.0
	16QAM	1	0	19.55	20.16	20.43	0.0	21.0	20.94	21.04	21.94	1.0	23.0
		1	49	19.43	20.25	20.01	0.0	21.0	21.53	21.41	22.04	1.0	23.0
		1	99	18.92	20.31	19.91	0.0	21.0	21.54	22.03	22.20	1.0	23.0
		50	0	19.23	19.90	20.08	0.0	21.0	19.98	20.45	20.76	2.0	22.0
		50	24	19.22	19.91	19.92	0.0	21.0	20.05	20.60	20.70	2.0	22.0
		50	50	19.27	19.89	19.89	0.0	21.0	19.90	20.60	20.64	2.0	22.0
		100	0	19.15	19.79	19.97	0.0	21.0	19.93	20.49	20.59	2.0	22.0
	64QAM	1	0	19.01	20.41	19.97	0.0	21.0	20.49	20.84	20.75	2.0	22.0
		1	49	19.07	19.52	19.61	0.0	21.0	20.33	20.30	20.71	2.0	22.0
		1	99	19.66	19.82	19.51	0.0	21.0	19.73	20.17	19.91	2.0	22.0
		50	0	18.71	19.33	19.54	1.0	20.0	18.99	19.62	19.76	3.0	21.0
		50	24	18.71	19.42	19.42	1.0	20.0	18.94	19.54	19.67	3.0	21.0
		50	50	18.80	19.36	19.31	1.0	20.0	18.95	19.55	19.49	3.0	21.0
		100	0	18.76	19.35	19.41	1.0	20.0	18.90	19.50	19.59	3.0	21.0
	256QAM	1	0	16.82	17.44	17.57	3.0	18.0	16.97	17.72	17.74	5.0	19.0
		1	49	16.41	17.21	17.61	3.0	18.0	17.34	17.54	18.11	5.0	19.0
		1	99	16.52	17.59	17.86	3.0	18.0	17.27	17.61	17.90	5.0	19.0
		50	0	16.69	17.41	17.66	3.0	18.0	16.91	17.56	17.72	5.0	19.0
		50	24	16.69	17.34	17.40	3.0	18.0	16.89	17.51	17.61	5.0	19.0
		50	50	16.69	17.36	17.38	3.0	18.0	16.91	17.44	17.48	5.0	19.0
		100	0	16.71	17.40	17.40	3.0	18.0	16.91	17.53	17.61	5.0	19.0

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	19.22	19.76	20.09	0.0	21.0	21.84	22.52	22.74	0.0	24.0
		1	37	19.22	19.70	19.97	0.0	21.0	21.74	22.40	22.55	0.0	24.0
		1	74	19.12	19.82	19.70	0.0	21.0	21.77	22.49	22.35	0.0	24.0
		36	0	19.19	19.96	19.96	0.0	21.0	20.95	21.46	21.69	1.0	23.0
		36	20	19.27	19.89	19.96	0.0	21.0	20.88	21.53	21.65	1.0	23.0
		36	39	19.27	19.87	19.90	0.0	21.0	20.85	21.57	21.63	1.0	23.0
		75	0	19.22	19.85	20.00	0.0	21.0	20.83	21.60	21.69	1.0	23.0
	16QAM	1	0	19.57	19.86	20.52	0.0	21.0	20.89	22.02	21.80	1.0	23.0
		1	37	19.48	19.76	20.14	0.0	21.0	20.82	21.65	21.79	1.0	23.0
		1	74	19.46	19.84	19.94	0.0	21.0	21.23	21.68	21.35	1.0	23.0
		36	0	19.31	19.83	20.07	0.0	21.0	19.82	20.53	20.65	2.0	22.0
		36	20	19.16	19.84	19.97	0.0	21.0	19.83	20.51	20.64	2.0	22.0
		36	39	19.22	19.83	19.87	0.0	21.0	19.76	20.50	20.55	2.0	22.0
		75	0	19.21	19.86	19.88	0.0	21.0	19.89	20.51	20.60	2.0	22.0
	64QAM	1	0	18.97	20.26	20.23	0.0	21.0	20.09	20.51	20.56	2.0	22.0
		1	37	19.42	19.91	20.33	0.0	21.0	19.89	20.57	20.76	2.0	22.0
		1	74	19.30	19.84	19.83	0.0	21.0	19.57	20.53	20.16	2.0	22.0
		36	0	18.74	19.43	19.50	1.0	20.0	18.85	19.49	19.65	3.0	21.0
		36	20	18.69	19.24	19.48	1.0	20.0	18.94	19.49	19.64	3.0	21.0
		36	39	18.71	19.37	19.31	1.0	20.0	18.89	19.52	19.57	3.0	21.0
		75	0	18.67	19.35	19.39	1.0	20.0	18.92	19.56	19.62	3.0	21.0
	256QAM	1	0	16.64	17.53	17.81	3.0	18.0	17.12	17.57	18.22	5.0	19.0
		1	37	17.36	17.27	17.35	3.0	18.0	17.33	17.57	17.65	5.0	19.0
		1	74	16.67	17.80	17.54	3.0	18.0	16.85	17.53	17.28	5.0	19.0
		36	0	16.84	17.38	17.43	3.0	18.0	16.98	17.53	17.76	5.0	19.0
		36	20	16.72	17.41	17.47	3.0	18.0	16.85	17.59	17.56	5.0	19.0
		36	39	16.66	17.33	17.33	3.0	18.0	16.87	17.50	17.54	5.0	19.0
		75	0	16.65	17.42	17.42	3.0	18.0	16.90	17.52	17.62	5.0	19.0

LTE Band 7 (Ant. A) 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	19.31	19.79	20.02	0.0	21.0	21.57	22.56	22.80	0.0	24.0
		1	25	19.09	19.75	20.01	0.0	21.0	21.94	22.41	22.44	0.0	24.0
		1	49	19.29	19.84	19.81	0.0	21.0	21.90	22.53	22.42	0.0	24.0
		25	0	19.26	19.88	19.97	0.0	21.0	21.01	21.64	21.67	1.0	23.0
		25	12	19.25	19.88	20.01	0.0	21.0	20.94	21.58	21.67	1.0	23.0
		25	25	19.22	19.87	19.97	0.0	21.0	20.88	21.60	21.65	1.0	23.0
		50	0	19.27	19.91	19.97	0.0	21.0	21.02	21.61	21.72	1.0	23.0
	16QAM	1	0	19.44	20.13	19.85	0.0	21.0	21.38	21.33	21.62	1.0	23.0
		1	25	19.02	19.87	19.61	0.0	21.0	20.97	21.97	21.42	1.0	23.0
		1	49	19.62	20.26	20.27	0.0	21.0	20.86	21.21	21.48	1.0	23.0
		25	0	19.35	19.89	20.00	0.0	21.0	19.91	20.64	20.71	2.0	22.0
		25	12	19.21	19.83	20.04	0.0	21.0	19.91	20.60	20.72	2.0	22.0
		25	25	19.23	19.82	20.03	0.0	21.0	19.94	20.57	20.53	2.0	22.0
		50	0	19.27	19.83	20.05	0.0	21.0	19.97	20.62	20.63	2.0	22.0
	64QAM	1	0	19.16	19.95	20.25	0.0	21.0	20.39	20.56	21.31	2.0	22.0
		1	25	19.02	19.72	19.83	0.0	21.0	19.96	20.39	20.42	2.0	22.0
		1	49	18.99	20.01	20.04	0.0	21.0	20.37	20.91	21.07	2.0	22.0
		25	0	18.79	19.44	19.57	1.0	20.0	18.99	19.54	19.81	3.0	21.0
		25	12	18.78	19.41	19.47	1.0	20.0	18.99	19.59	19.75	3.0	21.0
		25	25	18.69	19.34	19.37	1.0	20.0	18.94	19.47	19.63	3.0	21.0
		50	0	18.77	19.39	19.47	1.0	20.0	18.96	19.62	19.65	3.0	21.0
	256QAM	1	0	17.14	17.40	17.78	3.0	18.0	17.14	17.29	17.89	5.0	19.0
		1	25	16.99	17.27	17.47	3.0	18.0	16.92	17.18	17.29	5.0	19.0
		1	49	16.74	17.46	17.37	3.0	18.0	16.99	17.40	17.15	5.0	19.0
		25	0	16.71	17.39	17.59	3.0	18.0	17.01	17.51	17.76	5.0	19.0
		25	12	16.70	17.33	17.48	3.0	18.0	16.99	17.55	17.73	5.0	19.0
		25	25	16.76	17.42	17.45	3.0	18.0	16.89	17.58	17.56	5.0	19.0
		50	0	16.76	17.41	17.45	3.0	18.0	16.91	17.56	17.68	5.0	19.0

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	19.25	19.85	19.96	0.0	21.0	21.81	22.43	22.63	0.0	24.0
		1	12	19.31	19.77	19.84	0.0	21.0	21.75	22.37	22.55	0.0	24.0
		1	24	19.33	19.87	19.74	0.0	21.0	21.80	22.50	22.42	0.0	24.0
		12	0	19.26	19.85	19.84	0.0	21.0	20.88	21.55	21.58	1.0	23.0
		12	7	19.31	19.86	19.90	0.0	21.0	20.95	21.51	21.57	1.0	23.0
		12	13	19.19	19.87	19.85	0.0	21.0	20.92	21.52	21.50	1.0	23.0
		25	0	19.29	19.87	19.99	0.0	21.0	20.90	21.60	21.63	1.0	23.0
	16QAM	1	0	19.09	19.80	20.02	0.0	21.0	21.35	22.03	21.64	1.0	23.0
		1	12	19.98	19.83	20.13	0.0	21.0	21.18	21.68	21.54	1.0	23.0
		1	24	19.11	19.89	19.92	0.0	21.0	21.25	21.52	21.67	1.0	23.0
		12	0	19.32	19.91	19.92	0.0	21.0	19.85	20.57	20.60	2.0	22.0
		12	7	19.27	19.85	19.75	0.0	21.0	19.98	20.46	20.65	2.0	22.0
		12	13	19.31	19.74	19.77	0.0	21.0	19.91	20.51	20.50	2.0	22.0
		25	0	19.20	19.92	19.88	0.0	21.0	19.95	20.45	20.66	2.0	22.0
	64QAM	1	0	19.60	20.01	20.10	0.0	21.0	20.14	20.71	20.97	2.0	22.0
		1	12	19.08	20.21	20.31	0.0	21.0	20.14	20.54	20.88	2.0	22.0
		1	24	19.51	19.65	19.81	0.0	21.0	20.02	20.52	20.40	2.0	22.0
		12	0	18.80	19.38	19.44	1.0	20.0	19.03	19.51	19.60	3.0	21.0
		12	7	18.86	19.37	19.43	1.0	20.0	19.00	19.61	19.61	3.0	21.0
		12	13	18.79	19.31	19.38	1.0	20.0	18.87	19.50	19.51	3.0	21.0
		25	0	18.91	19.39	19.45	1.0	20.0	18.89	19.48	19.60	3.0	21.0
	256QAM	1	0	16.86	17.45	17.45	3.0	18.0	17.20	17.42	17.73	5.0	19.0
		1	12	17.10	17.49	17.60	3.0	18.0	17.10	17.72	17.62	5.0	19.0
		1	24	17.12	17.42	17.43	3.0	18.0	17.10	17.75	17.77	5.0	19.0
		12	0	16.73	17.35	17.47	3.0	18.0	16.95	17.51	17.60	5.0	19.0
		12	7	16.72	17.31	17.40	3.0	18.0	16.92	17.57	17.61	5.0	19.0
		12	13	16.71	17.32	17.40	3.0	18.0	16.98	17.46	17.59	5.0	19.0
		25	0	16.76	17.45	17.44	3.0	18.0	16.94	17.53	17.48	5.0	19.0

LTE Band 12 (Ant. A) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)				
				RSI = 0, 3, 4				
				Measured Pwr (dBm)			MPR	Tune-up Limit
				23060	23095	23130		
				704 MHz	707.5 MHz	711 MHz		
10 MHz	QPSK	1	0		**24.15**		0.0	25.5
		1	25		24.02		0.0	25.5
		1	49		23.93		0.0	25.5
		25	0		**23.19**		1.0	24.5
		25	12		23.10		1.0	24.5
		25	25		23.07		1.0	24.5
		50	0		23.12		1.0	24.5
	16QAM	1	0		23.26		1.0	24.5
		1	25		23.39		1.0	24.5
		1	49		23.08		1.0	24.5
		25	0		22.02		2.0	23.5
		25	12		22.14		2.0	23.5
		25	25		22.09		2.0	23.5
		50	0		22.13		2.0	23.5
	64QAM	1	0		22.40		2.0	23.5
		1	25		21.82		2.0	23.5
		1	49		22.06		2.0	23.5
		25	0		21.15		3.0	22.5
		25	12		21.21		3.0	22.5
		25	25		21.08		3.0	22.5
		50	0		21.15		3.0	22.5
	256QAM	1	0		19.14		5.0	20.5
		1	25		19.08		5.0	20.5
		1	49		19.09		5.0	20.5
		25	0		19.08		5.0	20.5
		25	12		19.18		5.0	20.5
		25	25		19.10		5.0	20.5
		50	0		19.09		5.0	20.5

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				23035	23095	23155		
				701.5 MHz	707.5 MHz	713.5 MHz		
5 MHz	QPSK	1	0	24.06	24.11	24.01	0.0	25.5
		1	12	24.12	24.23	23.99	0.0	25.5
		1	24	23.92	24.01	23.89	0.0	25.5
		12	0	23.04	23.09	24.01	1.0	24.5
		12	7	22.98	23.05	24.04	1.0	24.5
		12	13	23.02	23.01	23.14	1.0	24.5
		25	0	23.02	23.09	23.22	1.0	24.5
	16QAM	1	0	23.03	23.08	22.87	1.0	24.5
		1	12	23.11	23.69	23.30	1.0	24.5
		1	24	23.15	23.15	23.10	1.0	24.5
		12	0	22.11	22.05	21.97	2.0	23.5
		12	7	22.12	22.03	22.14	2.0	23.5
		12	13	22.00	22.20	22.18	2.0	23.5
		25	0	21.94	21.95	22.13	2.0	23.5
	64QAM	1	0	22.06	22.08	22.33	2.0	23.5
		1	12	22.08	22.41	22.04	2.0	23.5
		1	24	21.94	21.95	22.44	2.0	23.5
		12	0	21.05	21.14	21.08	3.0	22.5
		12	7	20.87	21.05	21.06	3.0	22.5
		12	13	21.03	20.98	21.06	3.0	22.5
		25	0	21.00	21.18	21.16	3.0	22.5
	256QAM	1	0	19.36	19.24	18.98	5.0	20.5
		1	12	19.45	19.12	18.97	5.0	20.5
		1	24	19.52	19.36	19.41	5.0	20.5
		12	0	19.07	19.13	19.16	5.0	20.5
		12	7	18.86	19.06	19.16	5.0	20.5
		12	13	18.98	19.07	19.06	5.0	20.5
		25	0	19.06	18.99	19.14	5.0	20.5

LTE Band 12 (Ant. A) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				23025	23095	23165		
				700.5 MHz	707.5 MHz	714.5 MHz		
3 MHz	QPSK	1	0	23.93	24.04	24.01	0.0	25.5
		1	8	23.91	23.89	24.05	0.0	25.5
		1	14	23.88	24.01	23.92	0.0	25.5
		8	0	22.99	23.03	23.09	1.0	24.5
		8	4	22.94	22.99	22.99	1.0	24.5
		8	7	23.00	22.99	23.09	1.0	24.5
		15	0	22.96	22.95	23.15	1.0	24.5
	16QAM	1	0	22.65	23.05	23.44	1.0	24.5
		1	8	23.02	22.83	22.98	1.0	24.5
		1	14	23.06	23.31	22.84	1.0	24.5
		8	0	22.04	22.07	22.10	2.0	23.5
		8	4	21.99	21.94	22.12	2.0	23.5
		8	7	22.10	21.94	22.25	2.0	23.5
		15	0	22.06	22.05	22.12	2.0	23.5
	64QAM	1	0	22.06	22.44	21.85	2.0	23.5
		1	8	21.98	22.51	22.24	2.0	23.5
		1	14	22.14	22.02	22.02	2.0	23.5
		8	0	20.97	21.16	21.13	3.0	22.5
		8	4	21.01	20.99	21.25	3.0	22.5
		8	7	21.00	21.00	21.09	3.0	22.5
		15	0	20.99	21.06	21.13	3.0	22.5
	256QAM	1	0	19.04	18.99	18.95	5.0	20.5
		1	8	19.14	18.79	19.19	5.0	20.5
		1	14	18.89	18.87	19.32	5.0	20.5
		8	0	18.90	18.91	19.22	5.0	20.5
		8	4	18.90	18.91	19.20	5.0	20.5
		8	7	18.90	19.06	19.12	5.0	20.5
		15	0	19.01	19.08	19.01	5.0	20.5

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
				23017	23095	23173		
				699.7 MHz	707.5 MHz	715.3 MHz		
1.4 MHz	QPSK	1	0	23.88	23.99	23.89	0.0	25.5
		1	3	23.86	23.79	23.93	0.0	25.5
		1	5	23.83	23.87	23.89	0.0	25.5
		3	0	23.94	23.94	23.79	0.0	25.5
		3	1	23.87	23.99	23.99	0.0	25.5
		3	3	23.90	23.92	24.03	0.0	25.5
		6	0	22.94	23.02	22.98	1.0	24.5
	16QAM	1	0	23.03	23.28	23.13	1.0	24.5
		1	3	22.44	23.34	23.22	1.0	24.5
		1	5	22.95	22.99	23.08	1.0	24.5
		3	0	23.04	23.09	22.88	1.0	24.5
		3	1	23.05	23.19	23.06	1.0	24.5
		3	3	22.89	23.06	22.98	1.0	24.5
		6	0	22.11	21.93	22.12	2.0	23.5
	64QAM	1	0	22.11	22.39	22.09	2.0	23.5
		1	3	21.85	22.20	22.34	2.0	23.5
		1	5	22.03	21.93	22.40	2.0	23.5
		3	0	22.19	21.99	22.13	2.0	23.5
		3	1	21.64	21.99	22.19	2.0	23.5
		3	3	21.75	22.05	22.07	2.0	23.5
		6	0	20.86	21.12	21.10	3.0	22.5
	256QAM	1	0	19.17	19.01	19.54	5.0	20.5
		1	3	18.99	18.95	19.31	5.0	20.5
		1	5	18.97	19.10	19.54	5.0	20.5
		3	0	19.05	19.00	19.05	5.0	20.5
		3	1	18.95	19.15	19.04	5.0	20.5
		3	3	19.25	19.01	19.12	5.0	20.5
		6	0	19.00	19.05	19.20	5.0	20.5

LTE Band 13 (Ant. A) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm) RSI = 0, 3 Measured Pwr (dBm)			MPR	Tune-up Limit	Maximum Allowed Average Power (dBm) RSI = 4 Measured Pwr (dBm)			MPR	Tune-up Limit
					23230					23230			
					782 MHz					782 MHz			
10 MHz	QPSK	1	0		**21.92**		0.0	23.5		**23.65**		0.0	25.0
		1	25		21.84		0.0	23.5		23.64		0.0	25.0
		1	49		21.72		0.0	23.5		23.49		0.0	25.0
		25	0		**21.85**		1.0	22.5		**22.88**		1.0	24.0
		25	12		21.80		1.0	22.5		22.81		1.0	24.0
		25	25		21.76		1.0	22.5		22.76		1.0	24.0
		50	0		21.90		1.0	22.5		22.79		1.0	24.0
	16QAM	1	0		21.60		1.0	22.5		23.18		1.0	24.0
		1	25		21.64		1.0	22.5		21.97		1.0	24.0
		1	49		21.34		1.0	22.5		22.72		1.0	24.0
		25	0		21.40		1.0	22.5		21.72		2.0	23.0
		25	12		21.42		1.0	22.5		21.72		2.0	23.0
		25	25		21.37		1.0	22.5		21.63		2.0	23.0
		50	0		21.51		1.0	22.5		21.76		2.0	23.0
	64QAM	1	0		21.35		1.0	22.5		21.73		2.0	23.0
		1	25		21.56		1.0	22.5		21.54		2.0	23.0
		1	49		21.67		1.0	22.5		21.89		2.0	23.0
		25	0		20.45		2.0	21.5		20.85		3.0	22.0
		25	12		20.47		2.0	21.5		20.69		3.0	22.0
		25	25		20.47		2.0	21.5		20.80		3.0	22.0
		50	0		20.41		2.0	21.5		20.82		3.0	22.0
	256QAM	1	0		18.48		4.0	19.5		18.94		5.0	20.0
		1	25		18.12		4.0	19.5		18.74		5.0	20.0
		1	49		18.65		4.0	19.5		18.59		5.0	20.0
		25	0		18.47		4.0	19.5		18.82		5.0	20.0
		25	12		18.38		4.0	19.5		18.71		5.0	20.0
		25	25		18.35		4.0	19.5		18.66		5.0	20.0
		50	0		18.45		4.0	19.5		18.67		5.0	20.0

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		21.78		0.0	23.5		23.67		0.0	25.0
		1	12		21.88		0.0	23.5		23.73		0.0	25.0
		1	24		21.78		0.0	23.5		23.57		0.0	25.0
		12	0		21.86		1.0	22.5		22.73		1.0	24.0
		12	7		21.82		1.0	22.5		22.68		1.0	24.0
		12	13		21.84		1.0	22.5		22.64		1.0	24.0
		25	0		21.81		1.0	22.5		22.77		1.0	24.0
	16QAM	1	0		21.68		1.0	22.5		22.80		1.0	24.0
		1	12		21.94		1.0	22.5		22.65		1.0	24.0
		1	24		21.98		1.0	22.5		22.99		1.0	24.0
		12	0		21.49		1.0	22.5		21.73		2.0	23.0
		12	7		21.40		1.0	22.5		21.70		2.0	23.0
		12	13		21.39		1.0	22.5		21.76		2.0	23.0
		25	0		21.37		1.0	22.5		21.71		2.0	23.0
	64QAM	1	0		21.44		1.0	22.5		21.77		2.0	23.0
		1	12		21.59		1.0	22.5		22.17		2.0	23.0
		1	24		21.27		1.0	22.5		21.95		2.0	23.0
		12	0		20.48		2.0	21.5		20.79		3.0	22.0
		12	7		20.36		2.0	21.5		20.75		3.0	22.0
		12	13		20.35		2.0	21.5		20.74		3.0	22.0
		25	0		20.37		2.0	21.5		20.72		3.0	22.0
	256QAM	1	0		18.48		4.0	19.5		19.22		5.0	20.0
		1	12		18.10		4.0	19.5		19.23		5.0	20.0
		1	24		18.81		4.0	19.5		18.57		5.0	20.0
		12	0		18.53		4.0	19.5		18.76		5.0	20.0
		12	7		18.51		4.0	19.5		18.76		5.0	20.0
		12	13		18.42		4.0	19.5		18.75		5.0	20.0
		25	0		18.48		4.0	19.5		18.68		5.0	20.0

LTE Band 14 (Ant. A) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm) RSI = 0 , 4 Measured Pwr (dBm)			MPR	Tune-up Limit	Maximum Allowed Average Power (dBm) RSI = 3 Measured Pwr (dBm)			MPR	Tune-up Limit
					23330					23330			
					793 MHz					793 MHz			
10 MHz	QPSK	1	0		**22.29**		0.0	23.5		**23.67**		0.0	25.0
		1	25		22.06		0.0	23.5		23.48		0.0	25.0
		1	49		22.15		0.0	23.5		23.35		0.0	25.0
		25	0		**22.28**		0.0	23.5		**22.62**		1.0	24.0
		25	12		22.25		0.0	23.5		22.59		1.0	24.0
		25	25		22.15		0.0	23.5		22.51		1.0	24.0
		50	0		22.28		0.0	23.5		22.64		1.0	24.0
	16QAM	1	0		22.22		0.0	23.5		22.39		1.0	24.0
		1	25		22.21		0.0	23.5		22.25		1.0	24.0
		1	49		22.06		0.0	23.5		22.64		1.0	24.0
		25	0		21.35		1.0	22.5		21.61		2.0	23.0
		25	12		21.40		1.0	22.5		21.54		2.0	23.0
		25	25		21.19		1.0	22.5		21.56		2.0	23.0
		50	0		21.28		1.0	22.5		21.61		2.0	23.0
	64QAM	1	0		21.48		1.0	22.5		21.66		2.0	23.0
		1	25		20.98		1.0	22.5		21.00		2.0	23.0
		1	49		21.26		1.0	22.5		21.46		2.0	23.0
		25	0		20.40		2.0	21.5		20.67		3.0	22.0
		25	12		20.23		2.0	21.5		20.60		3.0	22.0
		25	25		20.31		2.0	21.5		20.58		3.0	22.0
		50	0		20.36		2.0	21.5		20.67		3.0	22.0
	256QAM	1	0		18.51		4.0	19.5		18.48		5.0	20.0
		1	25		18.21		4.0	19.5		18.97		5.0	20.0
		1	49		18.31		4.0	19.5		18.74		5.0	20.0
		25	0		18.33		4.0	19.5		18.64		5.0	20.0
		25	12		18.35		4.0	19.5		18.63		5.0	20.0
		25	25		18.35		4.0	19.5		18.54		5.0	20.0
		50	0		18.34		5.0	18.5		18.57		5.0	20.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm) 23305 790.5 MHz	23330 793 MHz	23355 795.5 MHz	MPR	Tune-up Limit	Measured Pwr (dBm) 23305 790.5 MHz	23330 793 MHz	23355 795.5 MHz	MPR	Tune-up Limit
5 MHz	QPSK	1	0		22.17		0.0	23.5		23.61		0.0	25.0
		1	12		22.21		0.0	23.5		23.53		0.0	25.0
		1	24		22.11		0.0	23.5		23.43		0.0	25.0
		12	0		22.16		0.0	23.5		22.56		1.0	24.0
		12	7		22.17		0.0	23.5		22.54		1.0	24.0
		12	13		22.15		0.0	23.5		22.51		1.0	24.0
		25	0		22.26		0.0	23.5		22.57		1.0	24.0
	16QAM	1	0		22.17		0.0	23.5		22.14		1.0	24.0
		1	12		22.43		0.0	23.5		22.15		1.0	24.0
		1	24		21.74		0.0	23.5		22.27		1.0	24.0
		12	0		21.11		1.0	22.5		21.53		2.0	23.0
		12	7		21.27		1.0	22.5		21.53		2.0	23.0
		12	13		21.28		1.0	22.5		21.47		2.0	23.0
		25	0		21.31		1.0	22.5		21.63		2.0	23.0
	64QAM	1	0		21.62		1.0	22.5		21.28		2.0	23.0
		1	12		21.32		1.0	22.5		21.41		2.0	23.0
		1	24		21.17		1.0	22.5		21.34		2.0	23.0
		12	0		20.30		2.0	21.5		20.58		3.0	22.0
		12	7		20.25		2.0	21.5		20.56		3.0	22.0
		12	13		20.25		2.0	21.5		20.51		3.0	22.0
		25	0		20.39		2.0	21.5		20.55		3.0	22.0
	256QAM	1	0		18.59		4.0	19.5		18.76		5.0	20.0
		1	12		18.06		4.0	19.5		18.88		5.0	20.0
		1	24		18.35		4.0	19.5		18.15		5.0	20.0
		12	0		18.30		4.0	19.5		18.57		5.0	20.0
		12	7		18.34		4.0	19.5		18.55		5.0	20.0
		12	13		18.19		4.0	19.5		18.43		5.0	20.0
		25	0		18.41		4.0	19.5		18.48		5.0	20.0

LTE Band 30 (Ant. A) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm) RSI = 0, 3 Measured Pwr (dBm)			MPR	Tune-up Limit	Maximum Allowed Average Power (dBm) RSI = 4 Measured Pwr (dBm)			MPR	Tune-up Limit
					27710					27710			
					2310 MHz					2310 MHz			
10 MHz	QPSK	1	0		17.24		0.0	18.5		21.64		0.0	22.5
		1	25		**17.37**		0.0	18.5		21.55		0.0	22.5
		1	49		17.21		0.0	18.5		**21.67**		0.0	22.5
		25	0		**17.25**		0.0	18.5		21.72		0.0	22.5
		25	12		17.23		0.0	18.5		21.74		0.0	22.5
		25	25		17.24		0.0	18.5		**21.75**		0.0	22.5
		50	0		17.23		0.0	18.5		21.80		0.0	22.5
	16QAM	1	0		17.41		0.0	18.5		21.81		0.0	22.5
		1	25		17.10		0.0	18.5		21.74		0.0	22.5
		1	49		17.30		0.0	18.5		21.92		0.0	22.5
		25	0		17.31		0.0	18.5		21.33		1.0	21.5
		25	12		17.28		0.0	18.5		21.17		1.0	21.5
		25	25		17.30		0.0	18.5		21.22		1.0	21.5
		50	0		17.29		0.0	18.5		21.19		1.0	21.5
	64QAM	1	0		17.18		0.0	18.5		21.42		1.0	21.5
		1	25		17.19		0.0	18.5		21.45		1.0	21.5
		1	49		17.23		0.0	18.5		21.28		1.0	21.5
		25	0		17.10		0.0	18.5		20.21		2.0	20.5
		25	12		17.10		0.0	18.5		20.19		2.0	20.5
		25	25		17.09		0.0	18.5		20.12		2.0	20.5
		50	0		17.10		0.0	18.5		20.14		2.0	20.5
	256QAM	1	0		17.11		1.0	17.5		18.48		4.0	18.5
		1	25		17.30		1.0	17.5		18.49		4.0	18.5
		1	49		17.15		1.0	17.5		18.27		4.0	18.5
		25	0		17.17		1.0	17.5		18.37		4.0	18.5
		25	12		17.20		1.0	17.5		18.20		4.0	18.5
		25	25		17.19		1.0	17.5		18.25		4.0	18.5
		50	0		17.13		1.0	17.5		18.28		4.0	18.5

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm) 27685 2307.5 MHz	27710 2310 MHz	27735 2312.5 MHz	MPR	Tune-up Limit	Measured Pwr (dBm) 27685 2307.5 MHz	27710 2310 MHz	27735 2312.5 MHz	MPR	Tune-up Limit
5 MHz	QPSK	1	0	17.07	17.22	17.21	0.0	18.5	21.59	21.72	21.68	0.0	22.5
		1	12	17.05	17.15	17.19	0.0	18.5	21.61	21.89	21.96	0.0	22.5
		1	24	17.12	17.23	17.21	0.0	18.5	21.66	21.65	21.67	0.0	22.5
		12	0	17.19	17.21	17.22	0.0	18.5	21.65	21.78	21.78	0.0	22.5
		12	7	17.18	17.20	17.20	0.0	18.5	21.69	21.72	21.70	0.0	22.5
		12	13	17.19	17.21	17.23	0.0	18.5	21.68	21.73	21.74	0.0	22.5
		25	0	17.18	17.22	17.22	0.0	18.5	21.77	21.76	21.79	0.0	22.5
	16QAM	1	0	17.57	17.54	17.75	0.0	18.5	21.44	21.69	21.37	0.0	22.5
		1	12	17.39	17.56	17.38	0.0	18.5	21.37	21.67	21.31	0.0	22.5
		1	24	17.57	17.52	17.73	0.0	18.5	21.81	21.95	21.80	0.0	22.5
		12	0	17.24	17.24	17.34	0.0	18.5	21.24	21.27	21.18	1.0	21.5
		12	7	17.23	17.23	17.34	0.0	18.5	21.15	21.29	21.25	1.0	21.5
		12	13	17.23	17.25	17.33	0.0	18.5	21.23	21.29	21.24	1.0	21.5
		25	0	17.22	17.25	17.27	0.0	18.5	21.21	21.21	21.27	1.0	21.5
	64QAM	1	0	17.18	17.57	17.46	0.0	18.5	21.30	20.88	21.31	1.0	21.5
		1	12	17.19	17.40	17.34	0.0	18.5	21.28	21.44	21.17	1.0	21.5
		1	24	17.23	17.52	17.41	0.0	18.5	21.50	21.43	21.12	1.0	21.5
		12	0	17.10	17.25	17.17	0.0	18.5	20.23	20.35	20.40	2.0	20.5
		12	7	17.10	17.26	17.16	0.0	18.5	20.29	20.25	20.22	2.0	20.5
		12	13	17.09	17.22	17.18	0.0	18.5	20.18	20.34	20.16	2.0	20.5
		25	0	17.10	17.24	17.20	0.0	18.5	20.29	20.20	20.32	2.0	20.5
	256QAM	1	0	17.11	17.38	17.41	1.0	17.5	18.09	18.36	18.41	4.0	18.5
		1	12	17.30	17.43	17.35	1.0	17.5	18.07	18.29	18.00	4.0	18.5
		1	24	17.15	17.38	17.30	1.0	17.5	18.20	18.47	18.24	4.0	18.5
		12	0	17.17	17.32	17.27	1.0	17.5	18.21	18.26	18.26	4.0	18.5
		12	7	17.20	17.30	17.22	1.0	17.5	18.27	18.19	18.22	4.0	18.5
		12	13	17.19	17.30	17.26	1.0	17.5	18.24	18.30	18.33	4.0	18.5
		25	0	17.13	17.25	17.20	1.0	17.5	18.29	18.31	18.22	4.0	18.5

LTE Band 71 (Ant. A) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm) RSI = 0, 3			MPR	Tune-up Limit	Maximum Allowed Average Power (dBm) RSI = 4			MPR	Tune-up Limit
				Measured Pwr (dBm)					Measured Pwr (dBm)				
				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		**22.21**		0.0	23.5		**23.96**		0.0	25.5
		1	49		22.09		0.0	23.5		23.85		0.0	25.5
		1	99		21.80		0.0	23.5		23.70		0.0	25.5
		50	0		**22.15**		0.0	23.5		**22.92**		1.0	24.5
		50	24		22.09		0.0	23.5		22.89		1.0	24.5
		50	50		22.13		0.0	23.5		22.75		1.0	24.5
		100	0		22.15		0.0	23.5		22.86		1.0	24.5
	16QAM	1	0		22.21		0.0	23.5		23.00		1.0	24.5
		1	49		21.98		0.0	23.5		22.90		1.0	24.5
		1	99		22.05		0.0	23.5		22.61		1.0	24.5
		50	0		21.84		1.0	22.5		22.01		2.0	23.5
		50	24		21.80		1.0	22.5		21.85		2.0	23.5
		50	50		21.68		1.0	22.5		21.68		2.0	23.5
		100	0		21.76		1.0	22.5		21.90		2.0	23.5
	64QAM	1	0		21.81		1.0	22.5		21.64		2.0	23.5
		1	49		21.88		1.0	22.5		21.83		2.0	23.5
		1	99		21.48		1.0	22.5		21.71		2.0	23.5
		50	0		20.87		2.0	21.5		20.96		3.0	22.5
		50	24		20.76		2.0	21.5		20.97		3.0	22.5
		50	50		20.67		2.0	21.5		20.71		3.0	22.5
		100	0		20.77		2.0	21.5		20.86		3.0	22.5
	256QAM	1	0		19.09		4.0	19.5		18.66		5.0	20.5
		1	49		18.85		4.0	19.5		19.06		5.0	20.5
		1	99		19.09		4.0	19.5		19.15		5.0	20.5
		50	0		18.70		4.0	19.5		18.91		5.0	20.5
		50	24		18.58		4.0	19.5		18.86		5.0	20.5
		50	50		18.52		4.0	19.5		18.73		5.0	20.5
		100	0		18.68		4.0	19.5		18.92		5.0	20.5

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		22.17		0.0	23.5		23.56		0.0	25.5
		1	37		22.19		0.0	23.5		23.62		0.0	25.5
		1	74		21.97		0.0	23.5		23.63		0.0	25.5
		36	0		22.22		0.0	23.5		23.55		1.0	24.5
		36	20		22.16		0.0	23.5		23.58		1.0	24.5
		36	39		22.03		0.0	23.5		22.80		1.0	24.5
		75	0		22.09		0.0	23.5		22.89		1.0	24.5
	16QAM	1	0		21.79		0.0	23.5		22.29		1.0	24.5
		1	37		22.18		0.0	23.5		22.94		1.0	24.5
		1	74		22.06		0.0	23.5		22.96		1.0	24.5
		36	0		21.75		1.0	22.5		21.83		2.0	23.5
		36	20		21.72		1.0	22.5		21.89		2.0	23.5
		36	39		21.78		1.0	22.5		21.81		2.0	23.5
		75	0		21.70		1.0	22.5		21.84		2.0	23.5
	64QAM	1	0		21.76		1.0	22.5		22.32		2.0	23.5
		1	37		21.55		1.0	22.5		21.97		2.0	23.5
		1	74		21.93		1.0	22.5		21.79		2.0	23.5
		36	0		20.71		2.0	21.5		20.89		3.0	22.5
		36	20		20.63		2.0	21.5		20.95		3.0	22.5
		36	39		20.55		2.0	21.5		20.81		3.0	22.5
		75	0		20.68		2.0	21.5		20.81		3.0	22.5
	256QAM	1	0		18.66		4.0	19.5		19.27		5.0	20.5
		1	37		18.63		4.0	19.5		18.89		5.0	20.5
		1	74		18.70		4.0	19.5		18.94		5.0	20.5
		36	0		18.71		4.0	19.5		18.93		5.0	20.5
		36	20		18.66		4.0	19.5		18.78		5.0	20.5
		36	39		18.73		4.0	19.5		18.85		5.0	20.5
		75	0		18.74		4.0	19.5		18.87		5.0	20.5

LTE Band 71 (Ant. A) 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	21.83	22.02	22.22	0.0	23.5	23.47	23.92	24.01	0.0	25.5
		1	25	21.71	22.01	22.13	0.0	23.5	23.39	23.70	23.84	0.0	25.5
		1	49	21.64	21.92	22.13	0.0	23.5	23.47	23.76	23.85	0.0	25.5
		25	0	21.86	22.20	22.35	0.0	23.5	22.62	22.88	23.02	1.0	24.5
		25	12	21.76	22.18	22.28	0.0	23.5	22.62	22.85	23.07	1.0	24.5
		25	25	21.78	22.08	22.20	0.0	23.5	22.58	22.87	22.97	1.0	24.5
		50	0	21.87	22.16	22.34	0.0	23.5	22.62	22.94	23.00	1.0	24.5
	16QAM	1	0	21.73	22.54	22.83	0.0	23.5	22.87	22.83	22.99	1.0	24.5
		1	25	22.23	22.07	22.21	0.0	23.5	22.25	22.68	23.12	1.0	24.5
		1	49	22.10	22.08	22.05	0.0	23.5	22.71	22.66	23.28	1.0	24.5
		25	0	21.37	21.73	21.86	1.0	22.5	21.68	21.92	22.14	2.0	23.5
		25	12	21.42	21.77	21.84	1.0	22.5	21.62	21.79	21.99	2.0	23.5
		25	25	21.44	21.68	21.91	1.0	22.5	21.51	21.88	21.84	2.0	23.5
		50	0	21.45	21.78	21.83	1.0	22.5	21.60	21.84	22.03	2.0	23.5
	64QAM	1	0	21.93	21.51	22.30	1.0	22.5	21.66	21.80	22.26	2.0	23.5
		1	25	21.27	21.64	21.66	1.0	22.5	21.85	21.80	21.90	2.0	23.5
		1	49	21.67	21.65	21.85	1.0	22.5	21.58	22.16	21.63	2.0	23.5
		25	0	20.44	20.84	20.80	2.0	21.5	20.60	20.86	21.02	3.0	22.5
		25	12	20.48	20.72	20.89	2.0	21.5	20.62	20.92	20.99	3.0	22.5
		25	25	20.44	20.65	20.78	2.0	21.5	20.56	20.81	20.88	3.0	22.5
		50	0	20.43	20.76	20.88	2.0	21.5	20.61	20.84	21.06	3.0	22.5
	256QAM	1	0	18.59	19.21	18.86	4.0	19.5	18.74	18.66	19.39	5.0	20.5
		1	25	18.49	18.85	18.98	4.0	19.5	18.30	18.60	19.31	5.0	20.5
		1	49	18.19	18.87	19.15	4.0	19.5	18.43	19.11	19.35	5.0	20.5
		25	0	18.43	18.76	18.93	4.0	19.5	18.67	18.84	19.02	5.0	20.5
		25	12	18.43	18.70	18.89	4.0	19.5	18.59	18.85	18.97	5.0	20.5
		25	25	18.43	18.59	18.89	4.0	19.5	18.56	18.88	18.95	5.0	20.5
		50	0	18.56	18.74	18.91	4.0	19.5	18.57	18.99	19.03	5.0	20.5

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	21.84	22.06	22.20	0.0	23.5	23.50	23.79	23.93	0.0	25.5
		1	12	21.79	22.25	22.30	0.0	23.5	23.45	23.99	23.95	0.0	25.5
		1	24	21.60	22.09	22.23	0.0	23.5	23.43	23.89	23.85	0.0	25.5
		12	0	21.80	22.14	22.20	0.0	23.5	22.55	22.93	22.99	1.0	24.5
		12	7	21.73	22.14	22.28	0.0	23.5	22.48	22.87	22.96	1.0	24.5
		12	13	21.76	22.08	22.13	0.0	23.5	22.46	22.87	22.96	1.0	24.5
		25	0	21.78	22.12	22.25	0.0	23.5	22.50	22.96	23.05	1.0	24.5
	16QAM	1	0	21.90	22.10	22.37	0.0	23.5	22.76	22.48	23.10	1.0	24.5
		1	12	22.16	22.65	22.71	0.0	23.5	22.61	23.00	23.01	1.0	24.5
		1	24	21.99	21.68	22.39	0.0	23.5	22.64	23.08	23.11	1.0	24.5
		12	0	21.41	21.74	21.71	1.0	22.5	21.61	21.92	22.13	2.0	23.5
		12	7	21.28	21.66	21.73	1.0	22.5	21.54	21.90	22.05	2.0	23.5
		12	13	21.38	21.66	21.73	1.0	22.5	21.65	21.71	22.00	2.0	23.5
		25	0	21.42	21.76	21.79	1.0	22.5	21.58	21.93	21.98	2.0	23.5
	64QAM	1	0	21.37	22.25	21.83	1.0	22.5	21.49	21.93	21.82	2.0	23.5
		1	12	21.38	21.78	21.86	1.0	22.5	22.00	22.06	22.22	2.0	23.5
		1	24	21.29	21.54	22.35	1.0	22.5	21.45	22.12	22.21	2.0	23.5
		12	0	20.39	20.75	20.83	2.0	21.5	20.56	20.81	20.92	3.0	22.5
		12	7	20.37	20.76	20.81	2.0	21.5	20.60	20.88	21.08	3.0	22.5
		12	13	20.39	20.70	20.73	2.0	21.5	20.50	20.83	21.03	3.0	22.5
		25	0	20.34	20.70	20.91	2.0	21.5	20.52	20.87	20.91	3.0	22.5
	256QAM	1	0	18.16	18.84	18.89	4.0	19.5	19.28	19.08	19.40	5.0	20.5
		1	12	18.77	18.76	18.86	4.0	19.5	18.70	19.02	18.90	5.0	20.5
		1	24	18.24	18.60	18.78	4.0	19.5	18.59	19.05	18.84	5.0	20.5
		12	0	18.43	18.60	18.81	4.0	19.5	18.66	18.77	18.89	5.0	20.5
		12	7	18.49	18.68	18.71	4.0	19.5	18.57	18.83	19.01	5.0	20.5
		12	13	18.37	18.76	18.66	4.0	19.5	18.48	18.79	18.94	5.0	20.5
		25	0	18.39	18.65	18.90	4.0	19.5	18.60	18.91	19.08	5.0	20.5

LTE Band 41 (Ant. A) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)							Maximum Allowed Average Power (dBm)						
				RSI = 0, 3							RSI = 4						
				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	17.18	18.05	17.91	17.45	17.19	0.0	19.0	19.69	20.60	20.77	20.21	19.93	0.0	21.0
		1	49	17.07	17.79	17.86	17.31	16.96	0.0	19.0	19.96	20.35	20.59	20.06	19.89	0.0	21.0
		1	99	17.18	17.80	18.11	17.31	17.24	0.0	19.0	19.69	20.31	20.79	19.94	19.97	0.0	21.0
		50	0	17.21	17.99	17.99	17.51	17.14	0.0	19.0	19.82	20.63	20.51	20.29	19.98	0.0	21.0
		50	24	17.10	18.04	18.07	17.46	17.11	0.0	19.0	19.75	20.53	20.68	20.11	20.00	0.0	21.0
		50	50	17.14	17.87	18.08	17.40	17.23	0.0	19.0	19.75	20.39	20.71	20.05	20.00	0.0	21.0
		100	0	17.25	18.00	17.97	17.36	17.18	0.0	19.0	19.77	20.42	20.73	20.20	19.97	0.0	21.0
	16QAM	1	0	17.12	17.93	17.97	17.47	17.15	0.0	19.0	19.72	20.47	20.49	20.09	19.92	0.0	21.0
		1	49	17.41	17.98	17.88	17.25	17.03	0.0	19.0	19.46	20.57	20.69	20.41	20.33	0.0	21.0
		1	99	17.10	17.53	18.00	17.28	16.88	0.0	19.0	20.01	20.11	20.65	20.04	20.12	0.0	21.0
		50	0	17.19	18.13	18.20	17.51	17.18	0.0	19.0	19.87	20.57	20.76	20.20	19.97	0.0	21.0
		50	24	17.25	18.09	18.02	17.39	17.15	0.0	19.0	19.78	20.47	20.71	20.09	20.02	0.0	21.0
		50	50	17.17	18.00	18.02	17.45	17.21	0.0	19.0	19.77	20.39	20.69	20.17	20.01	0.0	21.0
		100	0	17.19	18.05	18.11	17.50	17.27	0.0	19.0	19.78	20.45	20.72	20.14	19.99	0.0	21.0
	64QAM	1	0	17.32	18.00	18.05	17.33	17.10	0.0	19.0	19.82	20.27	20.60	20.25	20.03	0.0	21.0
		1	49	17.58	17.91	17.94	17.38	17.23	0.0	19.0	19.96	20.14	20.39	20.06	19.89	0.0	21.0
		1	99	17.07	17.97	18.03	17.17	17.49	0.0	19.0	19.88	19.93	20.53	19.58	19.57	0.0	21.0
		50	0	17.25	18.02	18.18	17.53	17.19	0.0	19.0	19.74	20.44	20.60	20.19	19.91	0.0	21.0
		50	24	17.23	17.97	18.12	17.49	17.16	0.0	19.0	19.75	20.46	20.61	20.13	19.93	0.0	21.0
		50	50	17.16	17.92	17.92	17.45	17.20	0.0	19.0	19.74	20.31	20.62	19.96	19.84	0.0	21.0
		100	0	17.16	17.99	18.05	17.46	17.21	0.0	19.0	19.72	20.31	20.62	19.99	19.75	0.0	21.0
	256QAM	1	0	16.96	17.81	18.28	17.35	16.72	0.0	19.0	17.24	18.18	18.26	17.78	17.66	1.5	19.5
		1	49	16.91	18.04	17.59	17.24	17.36	0.0	19.0	17.32	18.06	18.57	18.15	17.51	1.5	19.5
		1	99	16.90	17.75	17.60	17.08	17.06	0.0	19.0	17.35	18.11	18.38	17.50	17.47	1.5	19.5
		50	0	17.14	17.97	18.06	17.58	17.05	0.0	19.0	17.66	18.43	18.69	18.15	17.90	1.5	19.5
		50	24	17.18	18.00	17.98	17.41	17.14	0.0	19.0	17.69	18.38	18.69	18.07	17.90	1.5	19.5
		50	50	17.12	17.95	17.97	17.35	17.14	0.0	19.0	17.70	18.38	18.69	18.04	17.98	1.5	19.5
		100	0	17.16	17.91	17.91	17.35	17.04	0.0	19.0	17.66	18.38	18.68	18.03	17.85	1.5	19.5
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	17.13	18.03	18.01	17.41	17.15	0.0	19.0	19.61	20.47	20.60	20.17	19.82	0.0	21.0
		1	37	17.14	17.86	17.93	17.33	17.03	0.0	19.0	19.62	20.34	20.53	19.99	19.88	0.0	21.0
		1	74	17.11	17.94	18.02	17.32	17.14	0.0	19.0	19.57	20.17	20.52	19.90	19.81	0.0	21.0
		36	0	17.21	18.06	18.06	17.41	17.12	0.0	19.0	19.63	20.50	20.57	20.15	19.93	0.0	21.0
		36	20	17.10	17.99	18.03	17.49	17.12	0.0	19.0	19.70	20.41	20.65	20.04	19.99	0.0	21.0
		36	39	17.19	17.90	17.97	17.44	17.16	0.0	19.0	19.67	20.39	20.59	20.02	19.92	0.0	21.0
		75	0	17.17	18.02	18.04	17.48	17.15	0.0	19.0	19.65	20.36	20.68	20.08	19.91	0.0	21.0
	16QAM	1	0	17.37	17.99	17.84	17.57	16.88	0.0	19.0	19.64	20.64	20.29	20.51	19.99	0.0	21.0
		1	37	17.40	17.92	17.75	17.66	17.15	0.0	19.0	19.74	20.31	20.55	20.19	20.28	0.0	21.0
		1	74	17.04	18.01	17.73	17.42	17.43	0.0	19.0	19.32	20.35	20.39	19.88	19.80	0.0	21.0
		36	0	17.23	18.06	18.06	17.51	17.11	0.0	19.0	19.71	20.37	20.65	20.13	19.88	0.0	21.0
		36	20	17.18	18.01	18.05	17.49	17.24	0.0	19.0	19.58	20.43	20.55	20.12	19.99	0.0	21.0
		36	39	17.21	17.97	17.95	17.46	17.23	0.0	19.0	19.67	20.40	20.57	20.13	19.93	0.0	21.0
		75	0	17.18	18.04	18.05	17.50	17.09	0.0	19.0	19.65	20.34	20.59	20.06	19.90	0.0	21.0
	64QAM	1	0	17.09	18.22	18.35	17.17	17.23	0.0	19.0	19.47	20.46	20.57	20.10	19.87	0.0	21.0
		1	37	17.32	18.16	17.93	17.71	17.32	0.0	19.0	19.57	20.53	20.58	20.31	20.04	0.0	21.0
		1	74	17.23	17.66	18.04	17.43	17.10	0.0	19.0	19.33	20.19	20.53	19.96	19.67	0.0	21.0
		36	0	17.23	18.05	18.09	17.54	17.14	0.0	19.0	19.51	20.30	20.44	20.04	19.83	0.0	21.0
		36	20	17.21	18.03	18.04	17.43	17.16	0.0	19.0	19.59	20.29	20.54	20.00	19.81	0.0	21.0
		36	39	17.12	18.00	17.99	17.45	17.13	0.0	19.0	19.54	20.16	20.57	19.91	19.83	0.0	21.0
		75	0	17.21	17.96	17.96	17.51	17.22	0.0	19.0	19.60	20.35	20.50	20.10	19.88	0.0	21.0
	256QAM	1	0	17.11	18.07	18.13	17.16	17.46	0.0	19.0	17.50	18.23	18.42	17.74	17.36	1.5	19.5
		1	37	16.92	18.21	17.77	17.40	16.97	0.0	19.0	17.22	18.09	18.08	18.11	17.58	1.5	19.5
		1	74	16.84	17.75	17.31	16.96	16.98	0.0	19.0	17.41	17.56	18.13	17.42	17.35	1.5	19.5
		36	0	17.13	18.02	18.02	17.42	17.08	0.0	19.0	17.58	18.32	18.55	18.06	17.79	1.5	19.5
		36	20	17.01	17.97	17.90	17.38	17.10	0.0	19.0	17.54	18.29	18.55	18.10	17.89	1.5	19.5
		36	39	17.14	17.92	17.88	17.32	17.04	0.0	19.0	17.64	18.24	18.46	18.06	17.90	1.5	19.5
		75	0	17.09	17.96	17.91	17.39	17.13	0.0	19.0	17.52	18.30	18.62	18.01	17.93	1.5	19.5

LTE Band 41 (Ant. A) 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	17.14	18.12	17.93	17.49	17.93	0.0	19.0	19.62	20.39	20.58	20.17	19.80	0.0	21.0
		1	25	17.06	17.91	17.86	17.35	17.86	0.0	19.0	19.39	20.19	20.46	20.01	19.78	0.0	21.0
		1	49	17.12	17.94	17.89	17.31	17.31	0.0	19.0	19.59	20.21	20.63	19.98	19.84	0.0	21.0
		25	0	17.17	17.99	17.99	17.45	17.45	0.0	19.0	19.65	20.44	20.68	20.09	19.97	0.0	21.0
		25	12	17.15	17.96	18.00	17.46	17.46	0.0	19.0	19.60	20.37	20.66	20.11	19.90	0.0	21.0
		25	25	17.24	17.96	18.02	17.44	17.04	0.0	19.0	19.64	20.38	20.54	20.09	19.97	0.0	21.0
		50	0	17.11	18.04	18.06	17.44	17.10	0.0	19.0	19.67	20.47	20.64	20.08	19.93	0.0	21.0
	16QAM	1	0	17.18	17.88	18.06	17.15	17.21	0.0	19.0	19.66	20.40	20.50	20.35	19.82	0.0	21.0
		1	25	16.85	17.53	17.67	17.32	16.87	0.0	19.0	19.39	20.25	20.38	19.93	19.77	0.0	21.0
		1	49	17.12	17.68	17.98	17.16	17.22	0.0	19.0	19.30	20.18	20.49	20.06	20.06	0.0	21.0
		25	0	17.12	17.87	18.05	17.52	17.13	0.0	19.0	19.58	20.39	20.47	19.99	19.83	0.0	21.0
		25	12	17.23	17.94	17.98	17.42	17.03	0.0	19.0	19.60	20.35	20.53	20.04	19.72	0.0	21.0
		25	25	17.02	17.93	17.94	17.37	16.99	0.0	19.0	19.63	20.32	20.57	19.99	19.93	0.0	21.0
		50	0	17.15	18.08	17.99	17.48	17.13	0.0	19.0	19.66	20.47	20.63	20.07	19.88	0.0	21.0
	64QAM	1	0	17.14	17.97	18.10	17.57	17.12	0.0	19.0	19.43	20.13	20.27	20.08	19.72	0.0	21.0
		1	25	17.08	17.48	17.99	17.54	17.36	0.0	19.0	19.30	20.23	20.50	19.95	20.01	0.0	21.0
		1	49	17.21	18.26	17.88	17.38	17.15	0.0	19.0	19.58	20.24	20.31	19.65	19.62	0.0	21.0
		25	0	17.20	18.05	18.13	17.61	17.10	0.0	19.0	19.55	20.32	20.60	20.11	19.82	0.0	21.0
		25	12	17.31	18.02	18.04	17.61	17.19	0.0	19.0	19.49	20.31	20.44	20.01	19.85	0.0	21.0
		25	25	17.31	18.03	17.98	17.52	17.22	0.0	19.0	19.58	20.31	20.54	20.00	19.90	0.0	21.0
		50	0	17.14	18.09	17.99	17.48	17.15	0.0	19.0	19.47	20.38	20.51	20.06	19.90	0.0	21.0
	256QAM	1	0	17.21	18.12	17.96	17.13	16.66	0.0	19.0	17.30	18.14	18.40	17.57	17.31	1.5	19.5
		1	25	16.86	17.87	17.47	16.85	16.91	0.0	19.0	17.35	18.34	18.20	17.45	17.62	1.5	19.5
		1	49	16.93	17.93	17.99	17.23	17.20	0.0	19.0	17.38	18.07	18.13	17.32	17.32	1.5	19.5
		25	0	17.08	17.94	18.06	17.45	17.04	0.0	19.0	17.62	18.40	18.58	18.04	17.85	1.5	19.5
		25	12	17.10	17.94	17.99	17.46	17.07	0.0	19.0	17.59	18.35	18.56	18.02	17.79	1.5	19.5
		25	25	17.09	17.91	17.96	17.49	17.11	0.0	19.0	17.53	18.24	18.52	17.97	17.86	1.5	19.5
		50	0	17.18	17.90	17.96	17.48	17.07	0.0	19.0	17.62	18.34	18.57	18.06	17.88	1.5	19.5
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	17.08	17.95	17.98	17.40	17.07	0.0	19.0	19.64	20.27	20.66	19.99	19.74	0.0	21.0
		1	12	17.16	17.86	17.81	17.19	17.13	0.0	19.0	19.55	20.31	20.39	19.90	19.89	0.0	21.0
		1	24	17.15	17.96	18.05	17.32	17.22	0.0	19.0	19.59	20.26	20.52	19.94	19.79	0.0	21.0
		12	0	17.14	18.03	18.01	17.41	17.14	0.0	19.0	19.65	20.39	20.62	20.06	19.84	0.0	21.0
		12	7	17.18	17.97	17.96	17.43	17.16	0.0	19.0	19.65	20.31	20.58	20.01	19.88	0.0	21.0
		12	13	17.15	17.97	17.95	17.38	17.17	0.0	19.0	19.63	20.31	20.55	20.06	19.85	0.0	21.0
		25	0	17.15	18.07	18.09	17.43	17.08	0.0	19.0	19.61	20.41	20.69	20.01	19.90	0.0	21.0
	16QAM	1	0	17.24	17.75	18.15	17.17	16.87	0.0	19.0	19.57	20.48	20.61	20.15	19.91	0.0	21.0
		1	12	17.43	18.25	18.20	17.67	17.45	0.0	19.0	19.62	20.12	20.63	19.95	19.81	0.0	21.0
		1	24	17.15	18.00	17.98	17.46	17.04	0.0	19.0	19.55	20.20	20.36	20.07	19.81	0.0	21.0
		12	0	17.11	17.94	17.99	17.54	17.18	0.0	19.0	19.61	20.27	20.55	20.09	19.82	0.0	21.0
		12	7	17.08	17.86	17.99	17.42	17.01	0.0	19.0	19.57	20.31	20.52	20.01	19.86	0.0	21.0
		12	13	17.13	17.97	18.01	17.47	17.05	0.0	19.0	19.53	20.26	20.55	19.89	19.98	0.0	21.0
		25	0	17.08	18.02	17.91	17.36	17.05	0.0	19.0	19.61	20.29	20.51	20.01	19.84	0.0	21.0
	64QAM	1	0	17.20	18.12	18.03	17.31	17.11	0.0	19.0	19.55	20.42	20.32	20.19	19.79	0.0	21.0
		1	12	17.08	17.94	17.82	17.75	17.20	0.0	19.0	19.41	20.65	20.76	20.30	19.96	0.0	21.0
		1	24	16.91	17.80	17.84	17.25	17.42	0.0	19.0	19.58	20.14	20.43	19.60	19.91	0.0	21.0
		12	0	17.13	18.04	17.89	17.45	17.10	0.0	19.0	19.37	20.09	20.39	20.00	19.69	0.0	21.0
		12	7	17.14	17.87	17.90	17.54	17.17	0.0	19.0	19.39	20.20	20.39	19.84	19.66	0.0	21.0
		12	13	17.02	17.89	17.95	17.31	17.14	0.0	19.0	19.41	20.16	20.40	19.85	19.69	0.0	21.0
		25	0	17.16	18.01	18.07	17.53	17.20	0.0	19.0	19.45	20.32	20.46	20.00	19.83	0.0	21.0
	256QAM	1	0	16.65	17.64	17.54	16.96	16.67	0.0	19.0	17.44	17.94	18.30	18.04	17.49	1.5	19.5
		1	12	17.15	17.97	17.78	17.04	17.34	0.0	19.0	17.39	17.92	17.91	17.69	17.84	1.5	19.5
		1	24	16.63	17.69	17.65	17.06	16.63	0.0	19.0	17.36	18.03	18.27	17.75	17.46	1.5	19.5
		12	0	17.01	17.83	17.92	17.30	16.99	0.0	19.0	17.47	18.24	18.47	18.08	17.73	1.5	19.5
		12	7	17.14	17.98	17.96	17.37	17.05	0.0	19.0	17.42	18.29	18.58	18.00	17.84	1.5	19.5
		12	13	17.05	17.80	17.83	17.39	17.14	0.0	19.0	17.54	18.19	18.42	17.93	17.77	1.5	19.5
		25	0	17.09	17.91	17.95	17.34	17.03	0.0	19.0	17.59	18.27	18.49	18.02	17.78	1.5	19.5

LTE Band 41 (Power Class 2) (Ant. A) Measured Results

RSI	Modulation	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	Output Power (dBm)	
						Tune-up Limit	Meas. Power
4	QPSK	20	40620	2593.0	50/50	23.50	22.83
3	QPSK	20	40620	2593.0	50/50	21.50	21.43
0	QPSK	20	40620	2593.0	1/99	21.50	21.49

Notes:

Conducted Power measurement for LTE Band 41 Power Class 2 were performed with the highest SAR test configuration in Power Class 3 for each RF Exposure condition.

LTE Band 48 (Ant. A) Measured Results

BW (MHz)	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)				MPR	Tune-up Limit
				RSI = 0, 3, 4					
				Measured Pwr (dBm)					
				55340	55773	56207	56640		
				3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz		
20 MHz	QPSK	1	0	14.11	14.59	14.51	**14.91**	0.0	15.0
		1	49	14.33	14.76	14.78	14.81	0.0	15.0
		1	99	14.28	14.58	14.55	14.84	0.0	15.0
		50	0	14.12	14.60	14.59	**14.75**	0.0	15.0
		50	24	14.15	14.59	14.58	14.71	0.0	15.0
		50	50	14.24	14.52	14.61	14.74	0.0	15.0
		100	0	14.21	14.54	14.54	14.76	0.0	15.0
	16QAM	1	0	14.07	14.51	14.38	14.66	0.0	15.0
		1	49	14.03	14.74	14.40	14.77	0.0	15.0
		1	99	14.50	14.45	14.60	14.70	0.0	15.0
		50	0	14.09	14.61	14.61	14.70	0.0	15.0
		50	24	14.26	14.62	14.67	14.81	0.0	15.0
		50	50	14.32	14.59	14.60	14.82	0.0	15.0
		100	0	14.20	14.58	14.57	14.87	0.0	15.0
	64QAM	1	0	13.75	14.33	14.44	14.61	0.0	15.0
		1	49	14.19	14.79	14.59	14.83	0.0	15.0
		1	99	13.98	14.64	14.49	14.60	0.0	15.0
		50	0	14.13	14.71	14.58	14.70	0.0	15.0
		50	24	14.12	14.58	14.58	14.81	0.0	15.0
		50	50	14.19	14.54	14.61	14.81	0.0	15.0
		100	0	14.13	14.53	14.60	14.71	0.0	15.0
	256QAM	1	0	14.42	14.12	14.46	14.45	0.0	15.0
		1	49	14.35	14.24	14.74	14.52	0.0	15.0
		1	99	13.75	14.47	14.35	14.73	0.0	15.0
		50	0	14.14	14.75	14.64	14.75	0.0	15.0
		50	24	14.19	14.62	14.71	14.73	0.0	15.0
		50	50	14.24	14.66	14.62	14.85	0.0	15.0
		100	0	14.17	14.63	14.52	14.75	0.0	15.0
BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit
				55315	55765	56215	56665		
				3557.5 MHz	3602.5 MHz	3647.5 MHz	3692.5 MHz		
15 MHz	QPSK	1	0	13.88	14.50	14.46	14.74	0.0	15.0
		1	37	13.95	14.64	14.49	14.63	0.0	15.0
		1	74	14.13	14.46	14.61	14.69	0.0	15.0
		36	0	14.04	14.48	14.49	14.70	0.0	15.0
		36	20	14.08	14.56	14.50	14.68	0.0	15.0
		36	39	14.08	14.53	14.51	14.72	0.0	15.0
		75	0	14.05	14.55	14.54	14.64	0.0	15.0
	16QAM	1	0	14.05	14.04	14.20	14.62	0.0	15.0
		1	37	13.94	14.76	14.41	14.80	0.0	15.0
		1	74	14.18	14.40	14.54	14.39	0.0	15.0
		36	0	14.04	14.59	14.50	14.69	0.0	15.0
		36	20	14.05	14.45	14.47	14.65	0.0	15.0
		36	39	14.17	14.50	14.47	14.70	0.0	15.0
		75	0	14.12	14.53	14.52	14.63	0.0	15.0
	64QAM	1	0	13.82	14.29	14.20	14.45	0.0	15.0
		1	37	13.87	14.46	14.33	14.59	0.0	15.0
		1	74	13.76	14.36	14.69	14.72	0.0	15.0
		36	0	14.06	14.56	14.51	14.68	0.0	15.0
		36	20	14.07	14.47	14.56	14.66	0.0	15.0
		36	39	14.16	14.52	14.49	14.60	0.0	15.0
		75	0	14.15	14.46	14.54	14.74	0.0	15.0
	256QAM	1	0	14.36	14.50	14.41	14.83	0.0	15.0
		1	37	13.92	14.89	14.59	14.50	0.0	15.0
		1	74	14.15	14.28	14.46	14.32	0.0	15.0
		36	0	14.03	14.49	14.48	14.70	0.0	15.0
		36	20	14.08	14.47	14.54	14.69	0.0	15.0
		36	39	14.15	14.50	14.62	14.63	0.0	15.0
		75	0	14.03	14.53	14.54	14.75	0.0	15.0

LTE Band 48 (Ant. A) Measured Results (Continued)

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit
				55290	55757	56223	56690		
				3555 MHz	3601.7 MHz	3648.3 MHz	3695 MHz		
10 MHz	QPSK	1	0	13.92	14.40	14.40	14.58	0.0	15.0
		1	25	13.91	14.40	14.37	14.50	0.0	15.0
		1	49	13.94	14.41	14.46	14.72	0.0	15.0
		25	0	14.02	14.45	14.48	14.56	0.0	15.0
		25	12	13.97	14.43	14.41	14.62	0.0	15.0
		25	25	13.99	14.47	14.55	14.66	0.0	15.0
		50	0	14.00	14.42	14.50	14.61	0.0	15.0
	16QAM	1	0	14.18	14.32	14.42	14.50	0.0	15.0
		1	25	13.59	14.49	14.55	14.26	0.0	15.0
		1	49	13.87	14.20	14.38	14.78	0.0	15.0
		25	0	13.95	14.37	14.37	14.55	0.0	15.0
		25	12	13.88	14.42	14.31	14.54	0.0	15.0
		25	25	14.00	14.32	14.35	14.55	0.0	15.0
		50	0	13.99	14.53	14.42	14.63	0.0	15.0
	64QAM	1	0	13.44	14.71	14.12	14.56	0.0	15.0
		1	25	14.02	14.32	14.18	14.27	0.0	15.0
		1	49	14.01	14.19	14.40	14.96	0.0	15.0
		25	0	13.91	14.56	14.48	14.60	0.0	15.0
		25	12	14.11	14.46	14.54	14.65	0.0	15.0
		25	25	14.10	14.37	14.50	14.69	0.0	15.0
		50	0	14.10	14.43	14.51	14.72	0.0	15.0
	256QAM	1	0	13.54	14.35	13.99	14.94	0.0	15.0
		1	25	13.50	14.14	14.22	14.59	0.0	15.0
		1	49	13.78	14.21	14.59	14.19	0.0	15.0
		25	0	14.00	14.47	14.47	14.57	0.0	15.0
		25	12	14.09	14.53	14.52	14.65	0.0	15.0
		25	25	14.03	14.51	14.48	14.69	0.0	15.0
		50	0	14.01	14.46	14.46	14.76	0.0	15.0

BW (MHz)	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit
				55265	55748	56232	56715		
				3552.5 MHz	3600.8 MHz	3649.2 MHz	3697.5 MHz		
5 MHz	QPSK	1	0	13.96	14.45	14.35	14.53	0.0	15.0
		1	12	13.91	14.44	14.31	14.48	0.0	15.0
		1	24	13.85	14.35	14.36	14.50	0.0	15.0
		12	0	13.92	14.37	14.37	14.53	0.0	15.0
		12	7	13.96	14.40	14.37	14.58	0.0	15.0
		12	13	13.91	14.33	14.40	14.61	0.0	15.0
		25	0	13.95	14.50	14.47	14.59	0.0	15.0
	16QAM	1	0	13.73	14.46	14.20	14.62	0.0	15.0
		1	12	13.68	14.21	14.33	14.30	0.0	15.0
		1	24	13.89	14.58	14.41	14.23	0.0	15.0
		12	0	13.84	14.48	14.42	14.46	0.0	15.0
		12	7	13.98	14.36	14.41	14.50	0.0	15.0
		12	13	13.84	14.32	14.42	14.51	0.0	15.0
		25	0	13.96	14.41	14.35	14.54	0.0	15.0
	64QAM	1	0	13.61	14.30	14.01	14.27	0.0	15.0
		1	12	14.00	14.35	14.54	14.30	0.0	15.0
		1	24	14.11	14.64	13.97	14.19	0.0	15.0
		12	0	13.85	14.38	14.32	14.43	0.0	15.0
		12	7	13.84	14.34	14.45	14.50	0.0	15.0
		12	13	13.97	14.38	14.31	14.46	0.0	15.0
		25	0	13.97	14.50	14.50	14.61	0.0	15.0
	256QAM	1	0	14.07	14.21	14.08	14.56	0.0	15.0
		1	12	13.72	14.13	14.28	14.16	0.0	15.0
		1	24	13.81	13.87	14.21	14.48	0.0	15.0
		12	0	13.86	14.45	14.36	14.58	0.0	15.0
		12	7	13.84	14.38	14.47	14.47	0.0	15.0
		12	13	13.94	14.42	14.39	14.64	0.0	15.0
		25	0	14.01	14.42	14.42	14.59	0.0	15.0

9.4. 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
25MHz	15	DFT-s	2@0	2@131	1@0	1@132	128@0	64@32	1@1	1@131
		CP	2@0	2@131	1@0	1@132	133@0	67@33	1@1	1@131
	30	DFT-s	2@0	2@63	1@0	1@64	64@0	32@16	1@1	1@63
		CP	2@0	2@63	1@0	1@64	65@0	33@16	1@1	1@63
	60	DFT-s	2@0	2@29	1@0	1@30	30@0	15@7[1]	1@1	1@29
		CP	2@0	2@29	1@0	1@30	31@0	15@7[1]	1@1	1@29
30MHz	15	DFT-s	2@0	2@158	1@0	1@159	160@0	80@40	1@1	1@158
		CP	2@0	2@158	1@0	1@159	160@0	80@40	1@1	1@158
	30	DFT-s	2@0	2@76	1@0	1@77	75@0	36@18	1@1	1@76
		CP	2@0	2@76	1@0	1@77	78@0	39@19	1@1	1@76
	60	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
40MHz	15	DFT-s	2@0	2@214	1@0	1@215	216@0	108@54	1@1	1@214
		CP	2@0	2@214	1@0	1@215	216@0	108@54	1@1	1@214
	30	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
	60	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
50MHz	15	DFT-s	2@0	2@268	1@0	1@269	270@0	135@67	1@1	1@268
		CP	2@0	2@268	1@0	1@269	270@0	135@67	1@1	1@268
	30	DFT-s	2@0	2@131	1@0	1@132	128@0	64@32	1@1	1@131
		CP	2@0	2@131	1@0	1@132	133@0	67@33	1@1	1@131
	60	DFT-s	2@0	2@63	1@0	1@64	64@0	32@16	1@1	1@63
		CP	2@0	2@63	1@0	1@64	65@0	33@16	1@1	1@63
60MHz	15	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
	30	DFT-s	2@0	2@160	1@0	1@161	162@0	81@40	1@1	1@160
		CP	2@0	2@160	1@0	1@161	162@0	81@40	1@1	1@160
	60	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
80MHz	15	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
	30	DFT-s	2@0	2@215	1@0	1@216	216@0	108@54	1@1	1@215
		CP	2@0	2@215	1@0	1@216	217@0	109@54	1@1	1@215
	60	DFT-s	2@0	2@105	1@0	1@106	100@0	50@25	1@1	1@105
		CP	2@0	2@105	1@0	1@106	107@0	53@26[1]	1@1	1@105
90MHz	15	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
	30	DFT-s	2@0	2@243	1@0	1@244	240@0	120@60	1@1	1@243
		CP	2@0	2@243	1@0	1@244	245@0	123@61	1@1	1@243
	60	DFT-s	2@0	2@119	1@0	1@120	120@0	60@30	1@1	1@119
		CP	2@0	2@119	1@0	1@120	121@0	61@30	1@1	1@119
100MHz	15	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
	30	DFT-s	2@0	2@271	1@0	1@272	270@0	135@67	1@1	1@271
		CP	2@0	2@271	1@0	1@272	273@0	137@68	1@1	1@271
	60	DFT-s	2@0	2@133	1@0	1@134	135@0	64@32	1@1	1@133
		CP	2@0	2@133	1@0	1@134	135@0	67@33[1]	1@1	1@133

Note 1: The allocated RB number L_{CRB} is ceil(N_{RB}/2) -1 in order to meet Inner RB allocation definition ($RB_{Start,Low} \leq RB_{Start} \leq RB_{Start,High}$) described in subclause 6.2.2 of TS 38.101-1 [2].

SAR test exclusion can be applied for testing overlapping NR bands as follows:

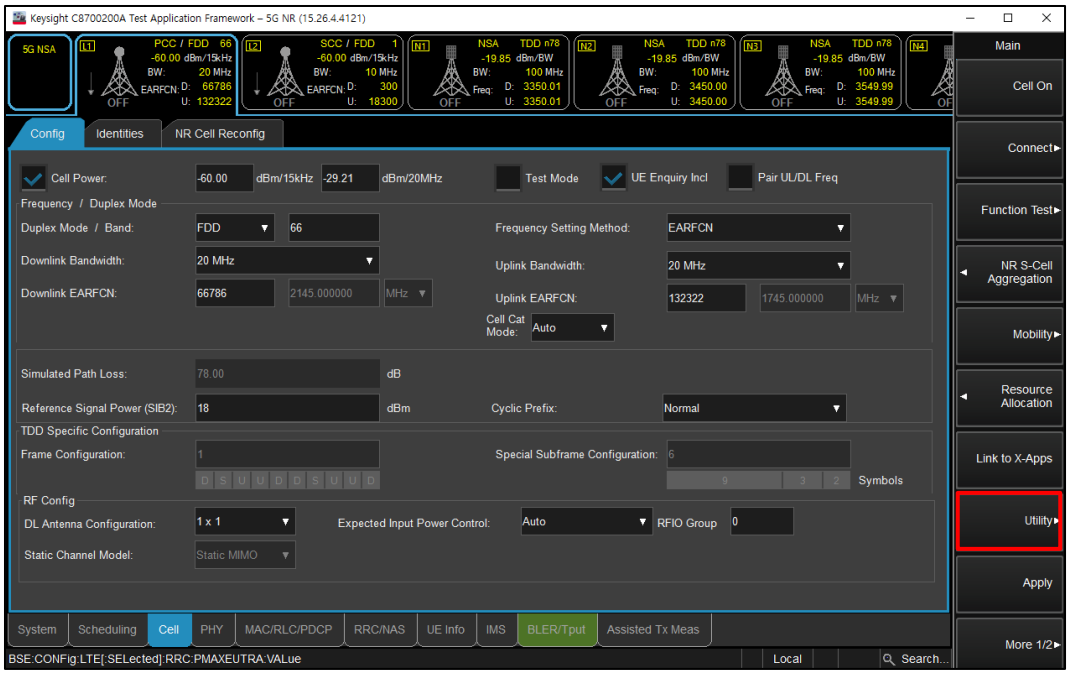
a) The maximum output power, including tolerance, for the smaller band must be ≤ the larger band to qualify for the SAR test exclusion.
b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.

- NR Band n2 (1850 – 1910 MHz) is covered by NR Band n25 (1850 – 1915 MHz)
- NR Band n78 (3450 – 3550 & 3700 – 3800 MHz) is covered by NR Band n77 (3450 – 3550 & 3700 - 3980 MHz)

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

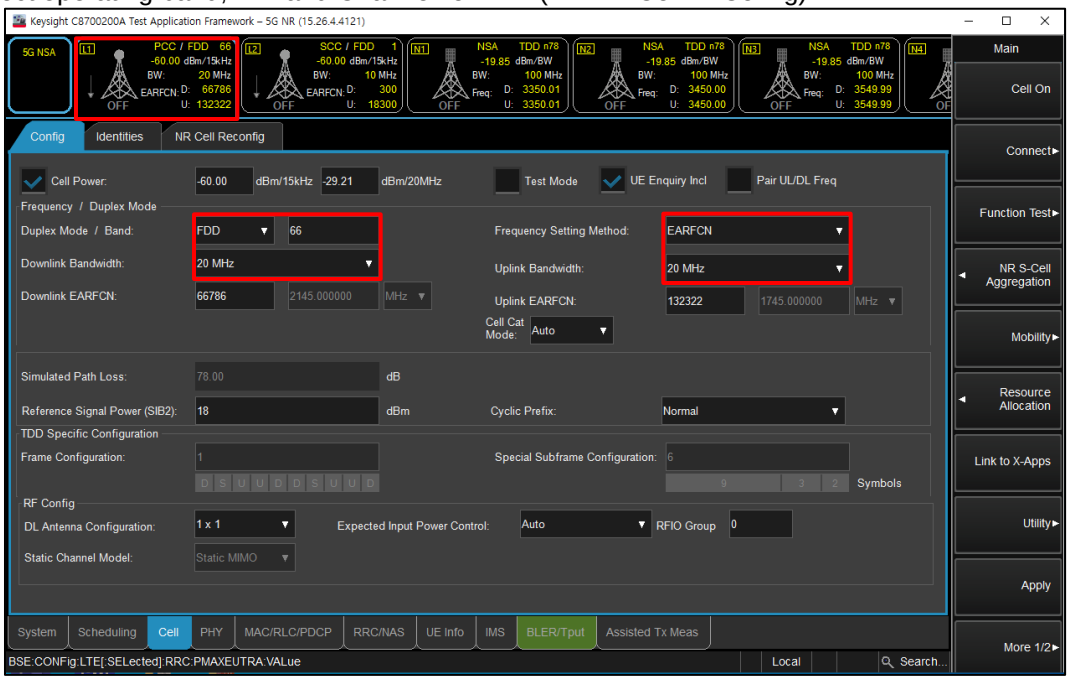


(Figure 1-1)

(Figure 1-2)

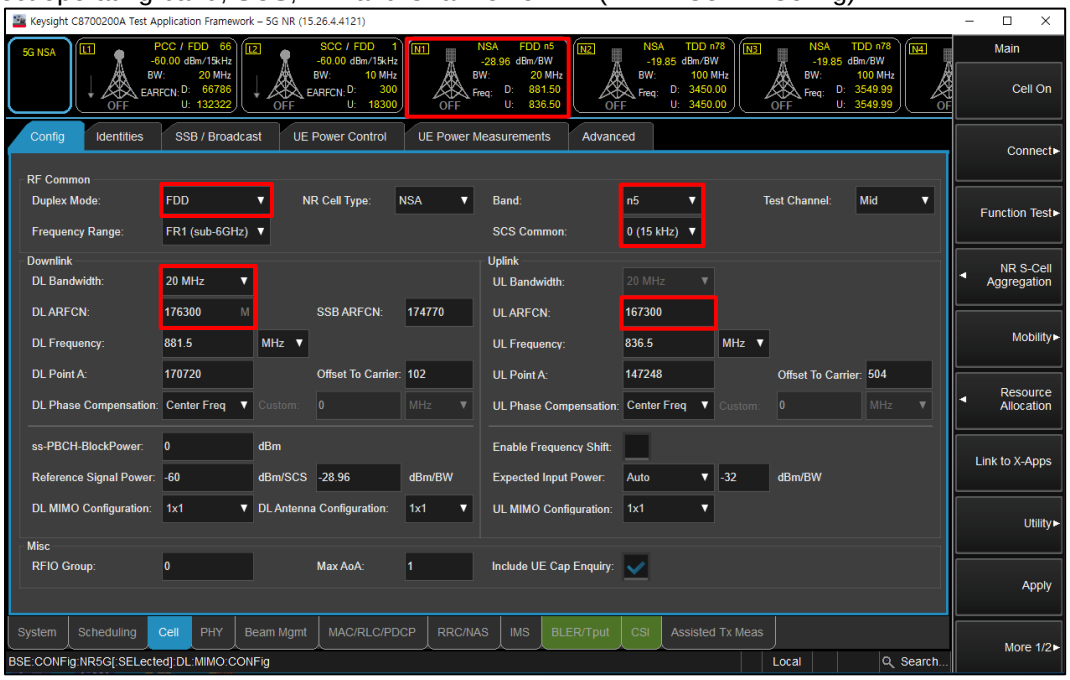
NSA Mode

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



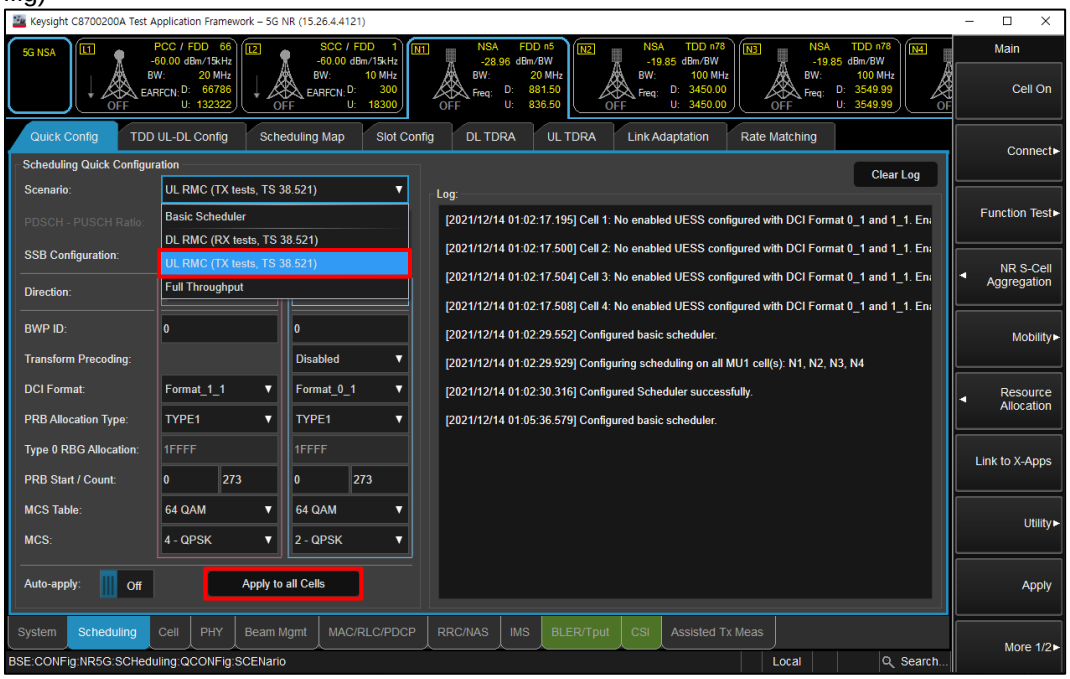
(Figure 2-1)

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



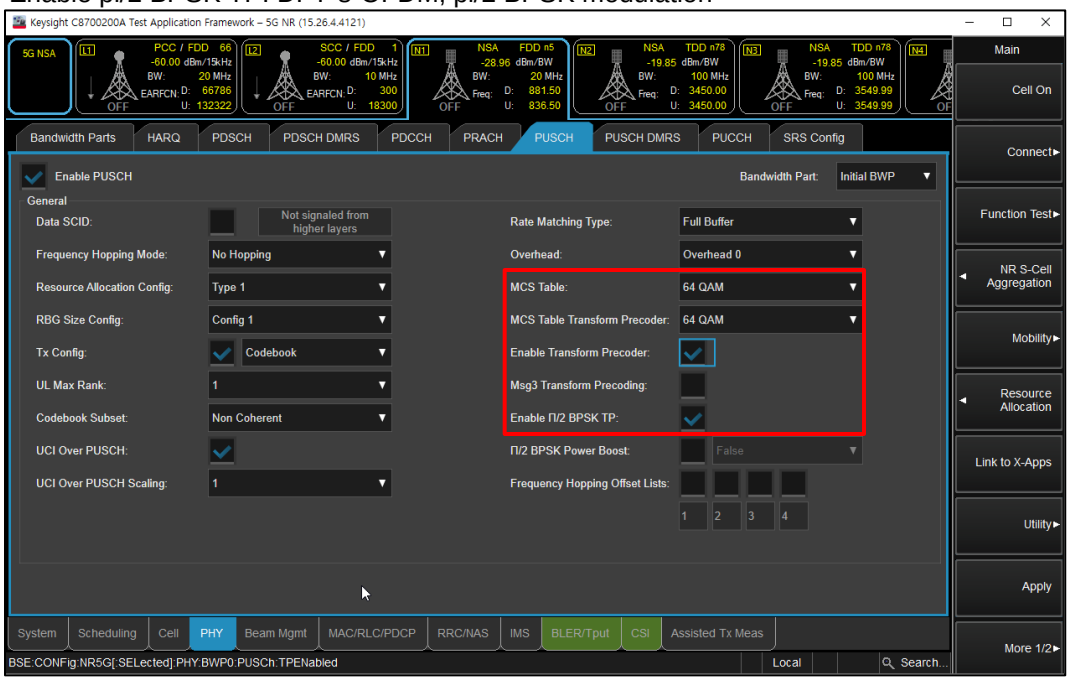
(Figure 2-2)

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



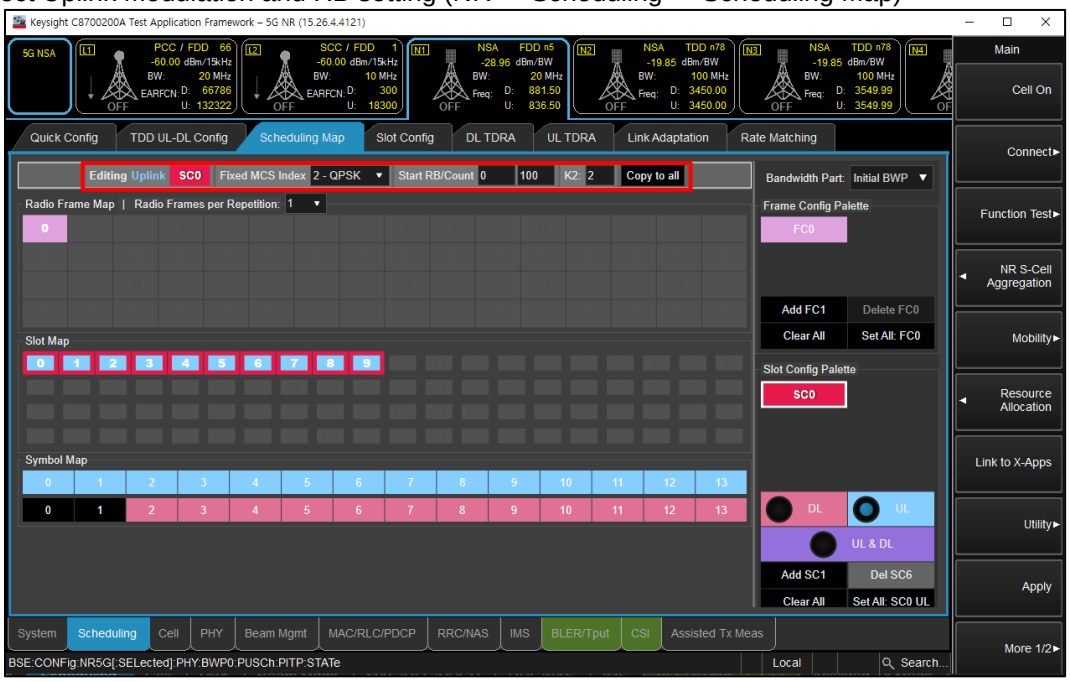
(Figure 2-3)

- 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



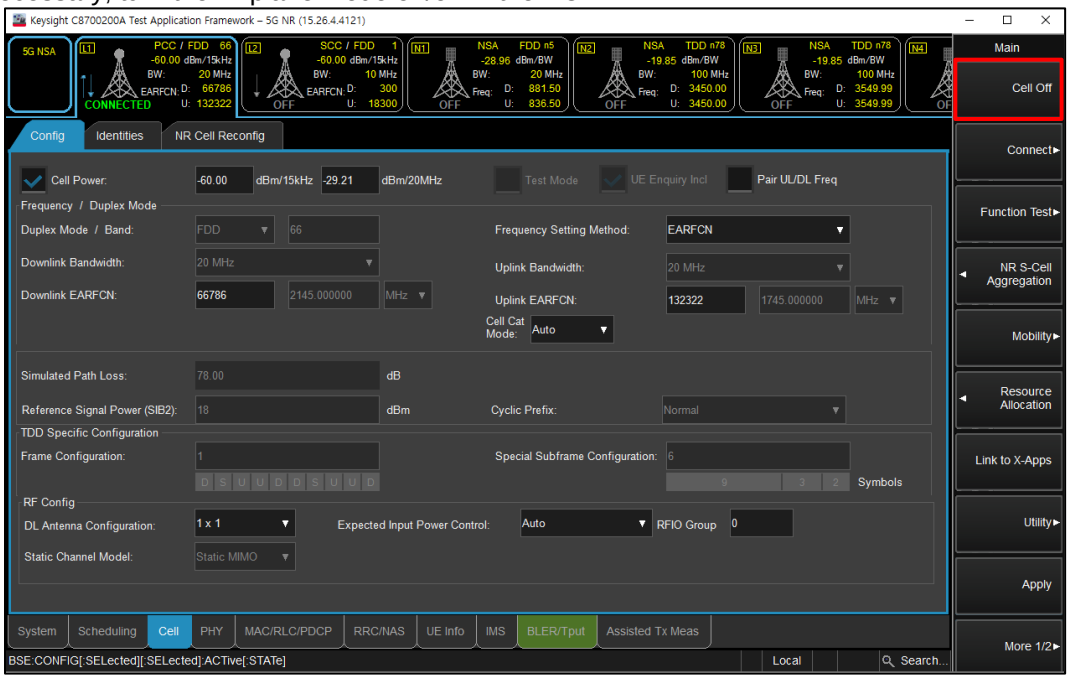
(Figure 2-4)

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



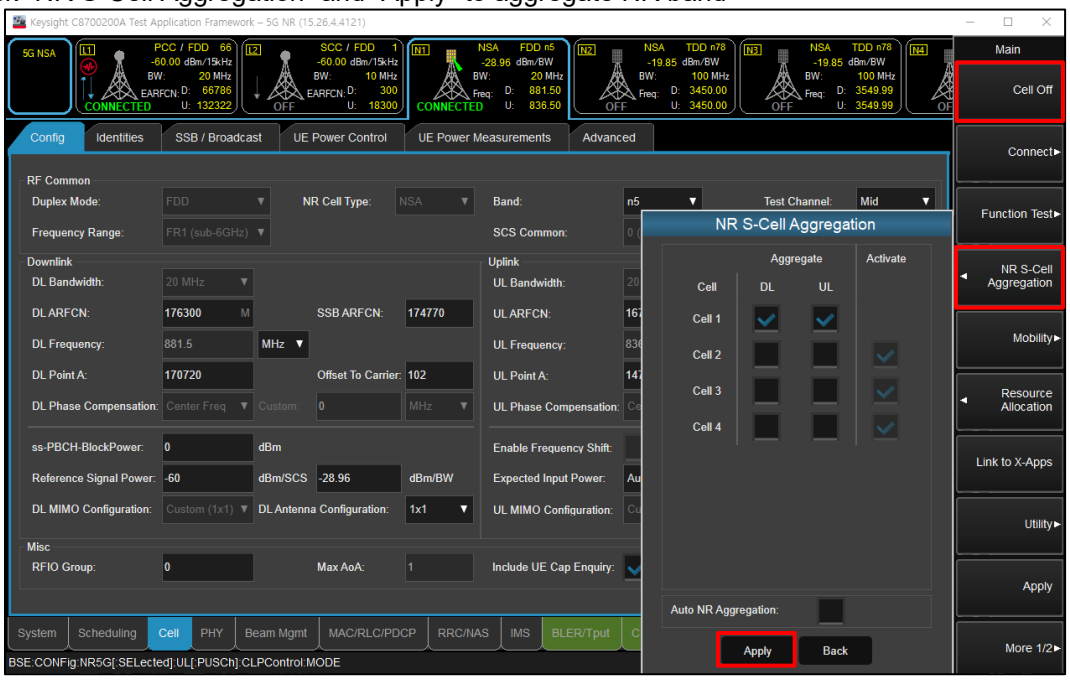
(Figure 2-5)

- 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



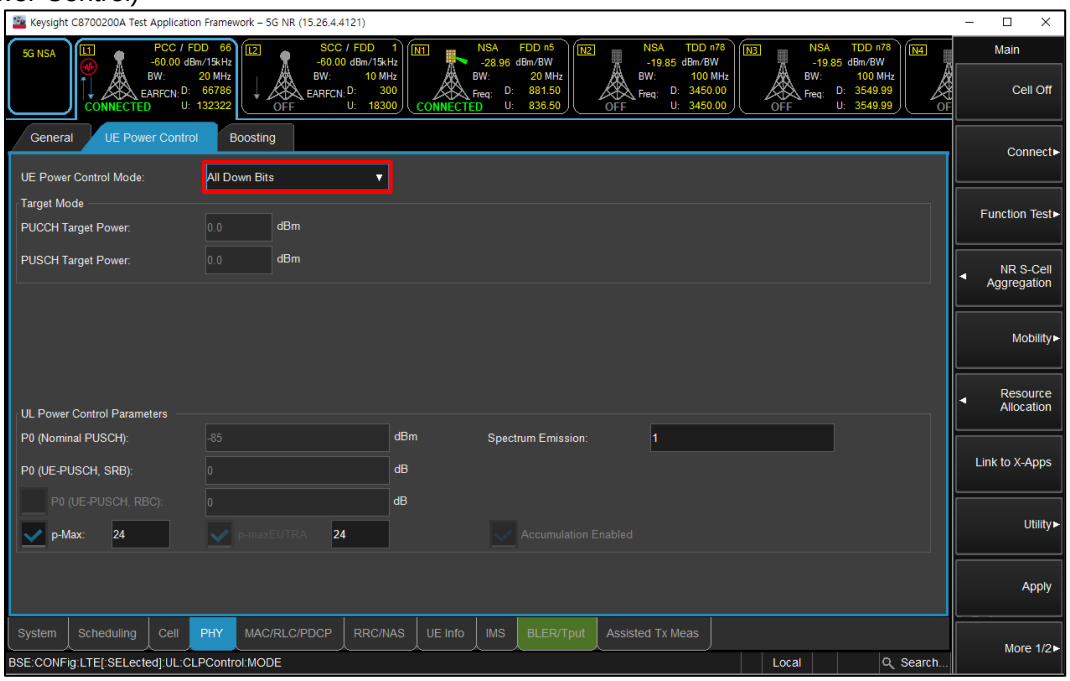
(Figure 2-6)

- 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



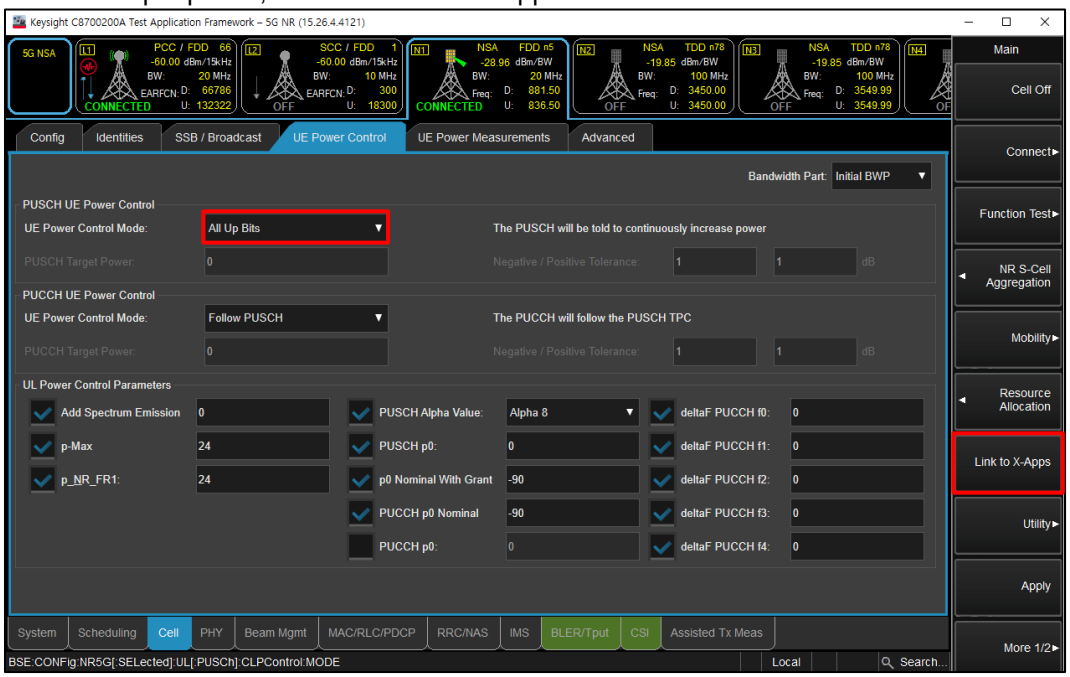
(Figure 2-7)

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



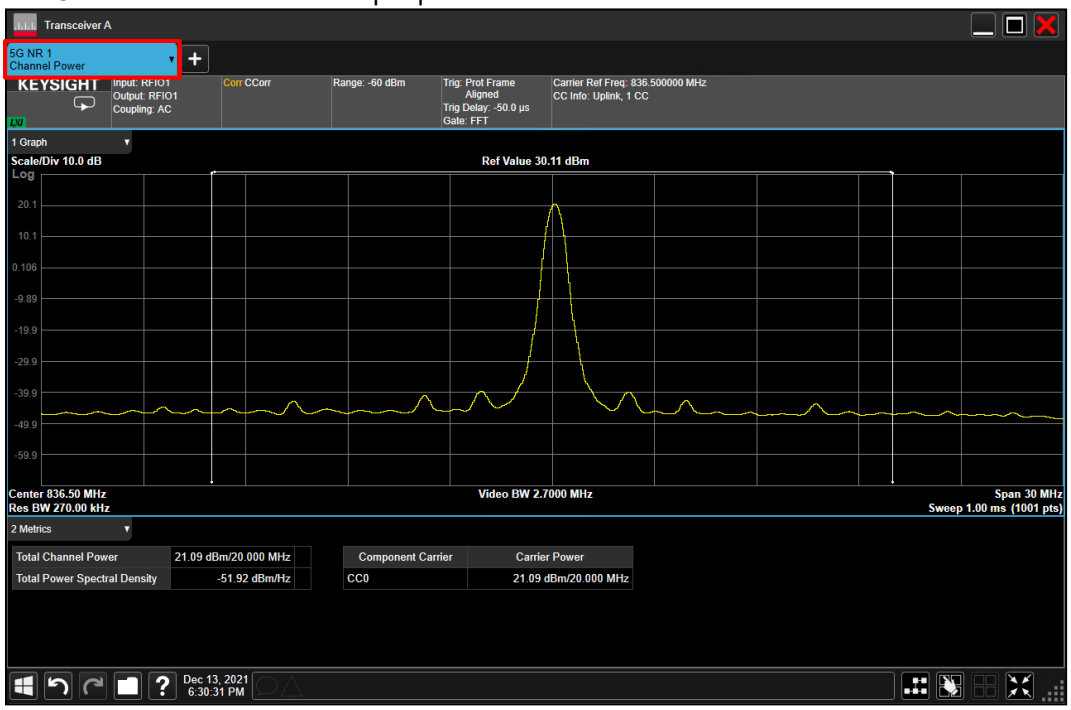
(Figure 2-8)

- 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”



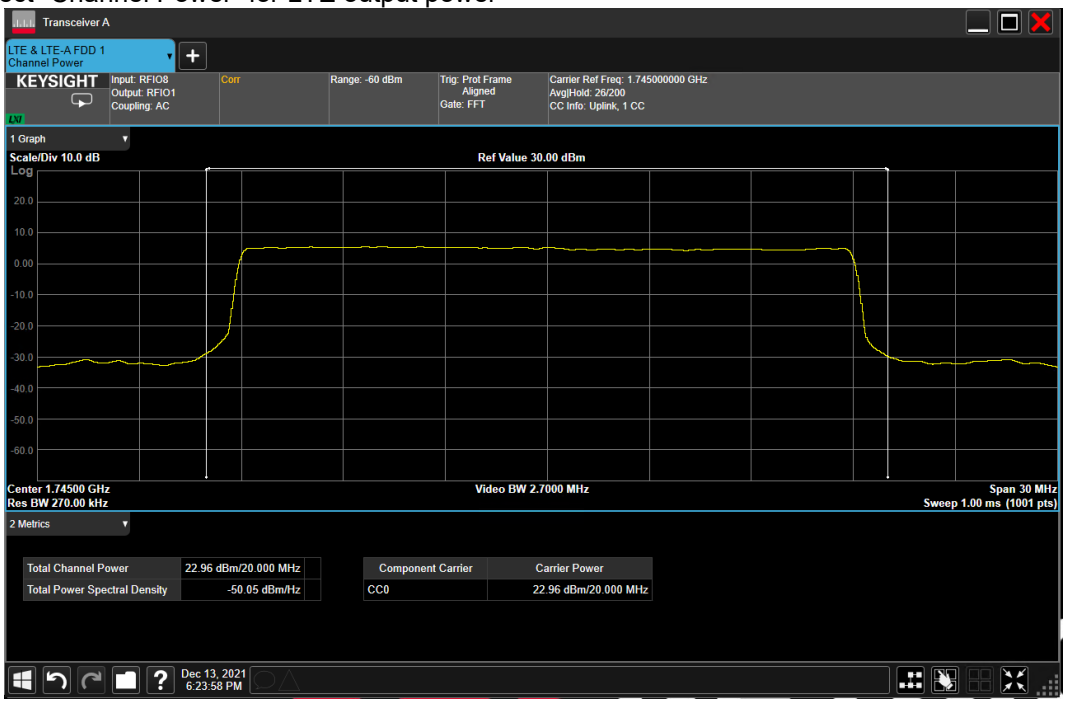
(Figure 2-9)

- Select “Channel Power” for NR output power



(Figure 2-10)

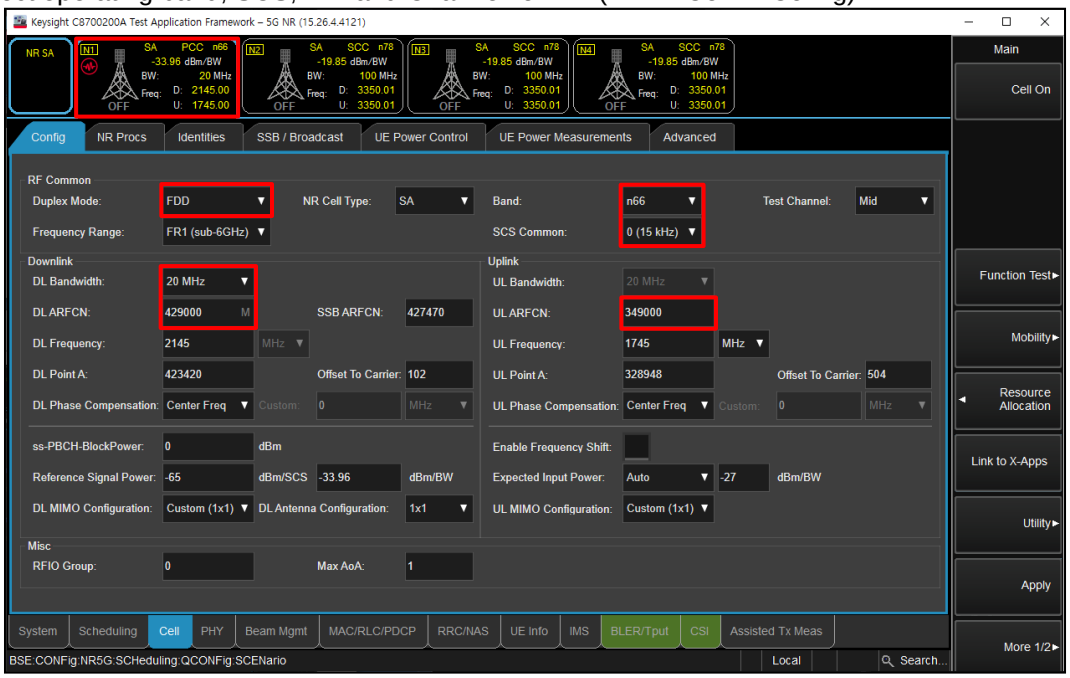
- Select “Channel Power” for LTE output power



(Figure 2-11)

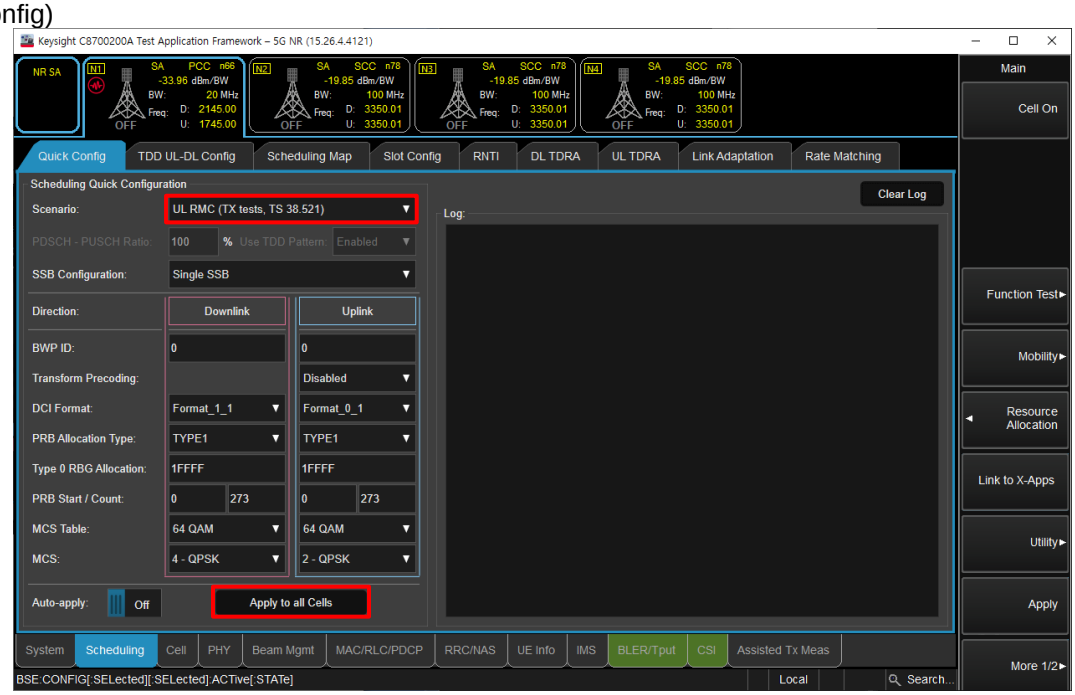
SA Mode

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



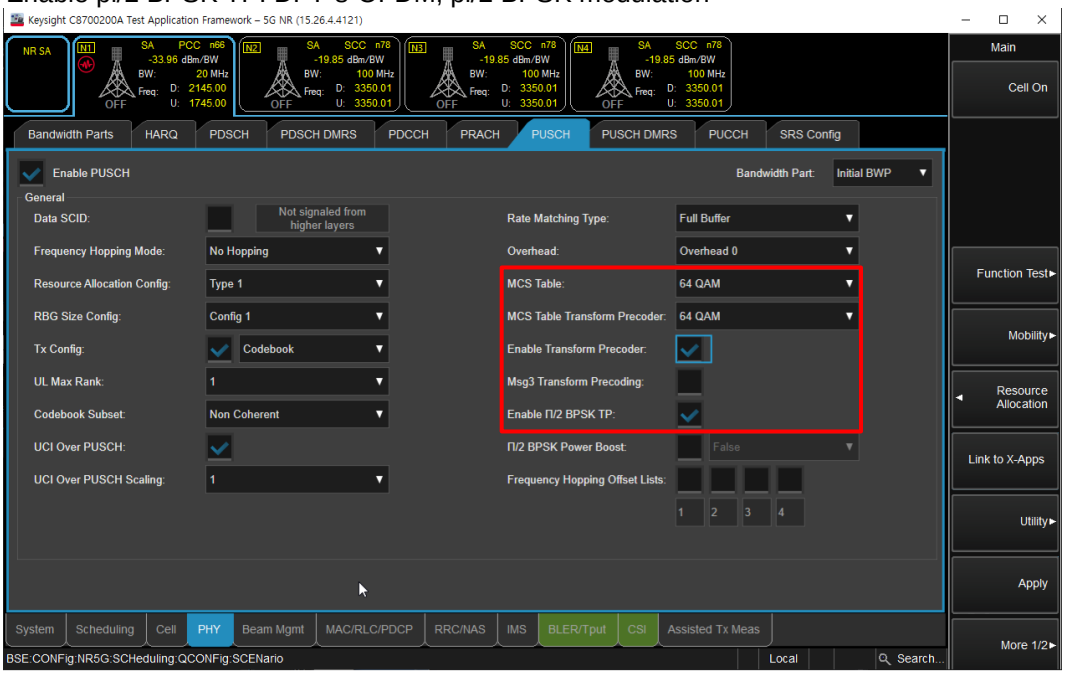
(Figure 3-1)

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



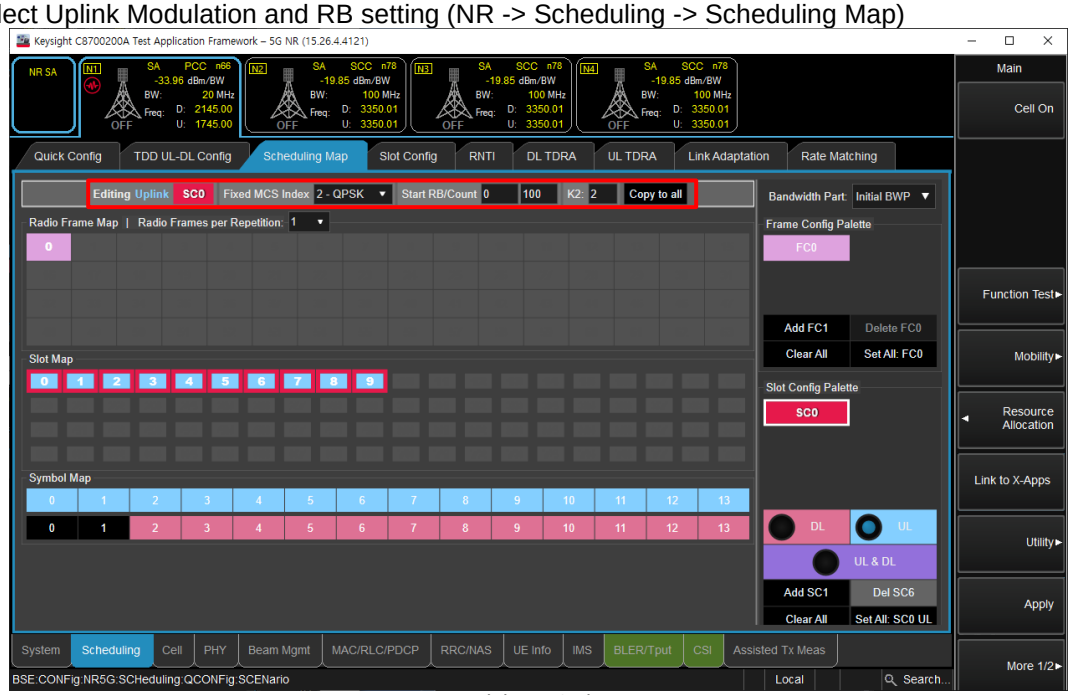
(Figure 3-2)

- 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



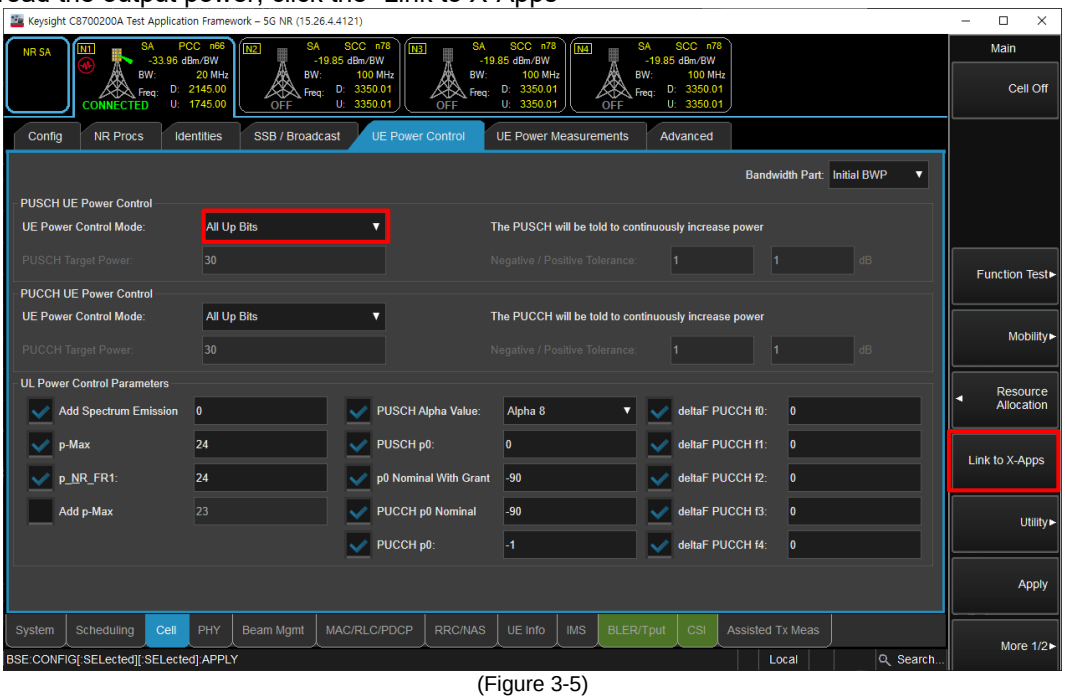
(Figure 3-3)

- 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 n2 (Ant. B) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm) RSI = 0, 3 Measured Pwr (dBm) 374000 1870.00 MHz	376000 1880.00 MHz	378000 1890.00 MHz	MPR	Tune-up Limit	Maximum Allowed Average Power (dBm) RSI = 4 Measured Pwr (dBm) 374000 1870.00 MHz	376000 1880.00 MHz	378000 1890.00 MHz	MPR	Tune-up Limit
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1		19.10		0.0	21.0		20.10		0.0	22.0
			1	107		19.24		0.0	21.0		20.26		0.0	22.0
			1	214		18.80		0.0	21.0		19.81		0.0	22.0
			108	0		19.15		0.0	21.0		20.20		0.0	22.0
			108	54		19.21		0.0	21.0		20.26		0.0	22.0
			108	108		19.07		0.0	21.0		20.11		0.0	22.0
			216	0		19.22		0.0	21.0		20.26		0.0	22.0
		QPSK	1	1		19.07		0.0	21.0		20.10		0.0	22.0
			1	107		**19.23**		0.0	21.0		**20.27**		0.0	22.0
			1	214		18.78		0.0	21.0		19.81		0.0	22.0
			108	0		19.14		0.0	21.0		20.19		0.0	22.0
			108	54		**19.21**		0.0	21.0		**20.27**		0.0	22.0
			108	108		19.05		0.0	21.0		20.11		0.0	22.0
			216	0		19.20		0.0	21.0		20.28		0.0	22.0
		16QAM	1	1		19.11		0.0	21.0		20.06		0.0	22.0
			1	107		19.28		0.0	21.0		20.22		0.0	22.0
			1	214		18.85		0.0	21.0		19.83		0.0	22.0
		64QAM	1	1		19.15		0.0	21.0		20.10		0.0	22.0
		256QAM	1	1		19.05		0.5	20.5		19.28		1.5	20.5
	CP-OFDM	QPSK	1	1		19.20		0.0	21.0		20.12		0.0	22.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm) 373000 1865.00 MHz	376000 1880.00 MHz	379000 1895.00 MHz	MPR	Tune-up Limit	Measured Pwr (dBm) 373000 1865.00 MHz	376000 1880.00 MHz	379000 1895.00 MHz	MPR	Tune-up Limit
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1		19.00		0.0	21.0		19.99		0.0	22.0
			1	79		19.21		0.0	21.0		20.18		0.0	22.0
			1	158		18.84		0.0	21.0		19.82		0.0	22.0
			80	0		19.09		0.0	21.0		20.04		0.0	22.0
			80	40		19.21		0.0	21.0		20.17		0.0	22.0
			80	80		19.09		0.0	21.0		20.05		0.0	22.0
			160	0		19.21		0.0	21.0		20.17		0.0	22.0
		QPSK	1	1		18.98		0.0	21.0		19.99		0.0	22.0
			1	79		19.17		0.0	21.0		20.16		0.0	22.0
			1	158		18.81		0.0	21.0		19.80		0.0	22.0
			80	0		19.09		0.0	21.0		20.04		0.0	22.0
			80	40		19.20		0.0	21.0		20.17		0.0	22.0
			80	80		19.09		0.0	21.0		20.06		0.0	22.0
			160	0		19.20		0.0	21.0		20.18		0.0	22.0
		16QAM	1	1		19.00		0.0	21.0		19.99		0.0	22.0
			1	79		19.22		0.0	21.0		20.21		0.0	22.0
			1	158		18.86		0.0	21.0		19.75		0.0	22.0
		64QAM	1	1		19.01		0.0	21.0		19.94		0.0	22.0
		256QAM	1	1		18.85		0.5	20.5		19.01		1.5	20.5
	CP-OFDM	QPSK	1	1		19.00		0.0	21.0		19.99		0.0	22.0

NR Band n2 (Ant. B) 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
					372500	376000	379500			372500	376000	379500		
					1862.50 MHz	1880.00 MHz	1897.50 MHz			1862.50 MHz	1880.00 MHz	1897.50 MHz		
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1		19.05		0.0	21.0		20.00		0.0	22.0
			1	66		19.12		0.0	21.0		20.09		0.0	22.0
			1	131		18.94		0.0	21.0		19.91		0.0	22.0
			64	0		19.08		0.0	21.0		20.06		0.0	22.0
			64	34		19.20		0.0	21.0		20.17		0.0	22.0
			64	69		19.11		0.0	21.0		20.10		0.0	22.0
			128	0		19.19		0.0	21.0		20.17		0.0	22.0
		QPSK	1	1		19.02		0.0	21.0		19.99		0.0	22.0
			1	66		19.11		0.0	21.0		20.07		0.0	22.0
			1	131		18.94		0.0	21.0		19.89		0.0	22.0
			64	0		19.08		0.0	21.0		20.05		0.0	22.0
			64	34		19.21		0.0	21.0		20.18		0.0	22.0
			64	69		19.11		0.0	21.0		20.08		0.0	22.0
			128	0		19.19		0.0	21.0		20.18		0.0	22.0
		16QAM	1	1		19.02		0.0	21.0		20.09		0.0	22.0
			1	66		19.07		0.0	21.0		20.21		0.0	22.0
			1	131		18.94		0.0	21.0		19.99		0.0	22.0
		64QAM	1	1		19.00		0.0	21.0		20.00		0.0	22.0
		256QAM	1	1		19.00		0.5	20.5		19.07		1.5	20.5
	CP-OFDM	QPSK	1	1		19.10		0.0	21.0		19.99		0.0	22.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					372000	376000	380000			372000	376000	380000		
					1860.00 MHz	1880.00 MHz	1900.00 MHz			1860.00 MHz	1880.00 MHz	1900.00 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.81	19.06	18.94	0.0	21.0	19.80	20.05	19.90	0.0	22.0
			1	52	18.96	19.21	18.79	0.0	21.0	19.96	20.20	19.75	0.0	22.0
			1	104	19.09	19.05	18.63	0.0	21.0	20.06	20.01	19.59	0.0	22.0
			50	0	18.87	19.11	18.85	0.0	21.0	19.84	20.08	19.80	0.0	22.0
			50	28	18.95	19.21	18.80	0.0	21.0	19.92	20.18	19.75	0.0	22.0
			50	56	19.04	19.14	18.73	0.0	21.0	20.02	20.13	19.68	0.0	22.0
			100	0	18.92	19.22	18.78	0.0	21.0	19.92	20.18	19.75	0.0	22.0
		QPSK	1	1	18.82	19.07	18.96	0.0	21.0	19.80	20.05	19.91	0.0	22.0
			1	52	18.97	19.23	18.79	0.0	21.0	19.94	20.20	19.74	0.0	22.0
			1	104	19.09	19.05	18.62	0.0	21.0	20.05	20.02	19.59	0.0	22.0
			50	0	18.87	19.12	18.85	0.0	21.0	19.82	20.08	19.81	0.0	22.0
			50	28	18.95	19.23	18.80	0.0	21.0	19.93	20.18	19.75	0.0	22.0
			50	56	19.05	19.15	18.73	0.0	21.0	20.02	20.12	19.67	0.0	22.0
			100	0	18.94	19.20	18.79	0.0	21.0	19.89	20.17	19.75	0.0	22.0
		16QAM	1	1	18.78	19.02	19.06	0.0	21.0	19.86	20.15	19.91	0.0	22.0
			1	52	18.94	19.20	18.94	0.0	21.0	20.02	20.32	19.80	0.0	22.0
			1	104	19.06	19.03	18.74	0.0	21.0	20.09	20.11	19.68	0.0	22.0
		64QAM	1	1	18.89	19.06	18.86	0.0	21.0	19.93	20.18	20.07	0.0	22.0
		256QAM	1	1	18.59	19.03	18.91	0.5	20.5	18.99	18.97	19.11	1.5	20.5
	CP-OFDM	QPSK	1	1	18.85	19.11	18.95	0.0	21.0	19.74	20.12	19.90	0.0	22.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					371500	376000	380500			371500	376000	380500		
					1857.50 MHz	1880.00 MHz	1902.50 MHz			1857.50 MHz	1880.00 MHz	1902.50 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.84	19.09	18.83	0.0	21.0	19.71	19.98	19.77	0.0	22.0
			1	39	18.85	19.12	18.66	0.0	21.0	19.80	20.03	19.61	0.0	22.0
			1	77	19.03	19.07	18.63	0.0	21.0	20.01	20.04	19.58	0.0	22.0
			36	0	18.84	19.12	18.75	0.0	21.0	19.81	20.09	19.76	0.0	22.0
			36	21	18.90	19.17	18.71	0.0	21.0	19.90	20.15	19.73	0.0	22.0
			36	43	18.96	19.13	18.63	0.0	21.0	19.96	20.12	19.66	0.0	22.0
			75	0	18.88	19.16	18.71	0.0	21.0	19.90	20.15	19.73	0.0	22.0
		QPSK	1	1	18.79	19.05	18.81	0.0	21.0	19.82	20.03	19.81	0.0	22.0
			1	39	18.84	19.11	18.65	0.0	21.0	19.87	20.07	19.65	0.0	22.0
			1	77	19.03	19.08	18.62	0.0	21.0	20.05	20.06	19.62	0.0	22.0
			36	0	18.83	19.11	18.75	0.0	21.0	19.84	20.10	19.79	0.0	22.0
			36	21	18.89	19.16	18.71	0.0	21.0	19.93	20.15	19.74	0.0	22.0
			36	43	18.95	19.12	18.62	0.0	21.0	20.00	20.11	19.67	0.0	22.0
			75	0	18.88	19.17	18.71	0.0	21.0	19.92	20.17	19.73	0.0	22.0
		16QAM	1	1	18.81	19.09	18.79	0.0	21.0	19.89	20.03	19.81	0.0	22.0
			1	39	18.77	19.05	18.65	0.0	21.0	19.82	20.13	19.67	0.0	22.0
			1	77	19.01	19.01	18.57	0.0	21.0	20.04	20.13	19.61	0.0	22.0
		64QAM	1	1	18.75	19.07	18.86	0.0	21.0	19.86	20.08	19.68	0.0	22.0
		256QAM	1	1	18.65	18.98	18.64	0.5	20.5	18.94	19.13	18.86	1.5	20.5
	CP-OFDM	QPSK	1	1	18.81	19.07	18.81	0.0	21.0	19.86	20.10	19.83	0.0	22.0

NR Band n2 (Ant. B) 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	376000	381000			371000	376000	381000		
					1855.00 MHz	1880.00 MHz	1905.00 MHz			1855.00 MHz	1880.00 MHz	1905.00 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.83	19.09	18.78	0.0	21.0	19.83	20.13	19.87	0.0	22.0
			1	25	18.88	19.18	18.74	0.0	21.0	19.91	20.19	19.76	0.0	22.0
			1	50	18.94	19.09	18.62	0.0	21.0	19.99	20.13	19.72	0.0	22.0
			25	0	18.81	19.13	18.76	0.0	21.0	19.87	20.15	19.79	0.0	22.0
			25	13	18.85	19.17	18.70	0.0	21.0	19.89	20.19	19.72	0.0	22.0
			25	27	18.90	19.17	18.64	0.0	21.0	19.96	20.17	19.67	0.0	22.0
			50	0	18.85	19.16	18.72	0.0	21.0	19.90	20.18	19.73	0.0	22.0
		QPSK	1	1	18.81	19.06	18.78	0.0	21.0	19.86	20.09	19.83	0.0	22.0
			1	25	18.87	19.15	18.73	0.0	21.0	19.95	20.18	19.74	0.0	22.0
			1	50	18.92	19.10	18.62	0.0	21.0	19.99	20.11	19.70	0.0	22.0
			25	0	18.83	19.14	18.76	0.0	21.0	19.88	20.12	19.78	0.0	22.0
			25	13	18.85	19.17	18.71	0.0	21.0	19.91	20.18	19.72	0.0	22.0
			25	27	18.91	19.15	18.65	0.0	21.0	19.96	20.16	19.66	0.0	22.0
			50	0	18.86	19.16	18.72	0.0	21.0	19.91	20.18	19.73	0.0	22.0
		16QAM	1	1	18.80	19.07	18.76	0.0	21.0	19.95	20.11	19.79	0.0	22.0
			1	25	18.84	19.23	18.79	0.0	21.0	19.94	20.21	19.72	0.0	22.0
			1	50	18.93	19.13	18.60	0.0	21.0	20.07	20.15	19.62	0.0	22.0
		64QAM	1	1	18.87	19.13	18.86	0.0	21.0	19.99	20.05	19.86	0.0	22.0
		256QAM	1	1	18.83	18.99	18.89	0.5	20.5	18.76	19.14	18.84	1.5	20.5
	CP-OFDM	QPSK	1	1	18.83	19.17	18.78	0.0	21.0	19.83	20.08	19.78	0.0	22.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)			MPR	Tune-up Limit
					370500	376000	381500			370500	376000	381500		
					1852.50 MHz	1880.00 MHz	1907.50 MHz			1852.50 MHz	1880.00 MHz	1907.50 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.75	19.13	18.67	0.0	21.0	19.79	20.19	19.70	0.0	22.0
			1	12	18.65	19.06	18.54	0.0	21.0	19.71	20.10	19.53	0.0	22.0
			1	23	18.78	19.16	18.59	0.0	21.0	19.82	20.18	19.63	0.0	22.0
			12	0	18.74	19.15	18.64	0.0	21.0	19.75	20.14	19.64	0.0	22.0
			12	6	18.74	19.15	18.60	0.0	21.0	19.75	20.16	19.60	0.0	22.0
			12	13	18.75	19.15	18.59	0.0	21.0	19.77	20.16	19.59	0.0	22.0
			25	0	18.75	19.16	18.61	0.0	21.0	19.76	20.15	19.61	0.0	22.0
		QPSK	1	1	18.72	19.11	18.66	0.0	21.0	19.77	20.14	19.71	0.0	22.0
			1	12	18.67	19.06	18.50	0.0	21.0	19.70	20.08	19.53	0.0	22.0
			1	23	18.78	19.15	18.61	0.0	21.0	19.81	20.16	19.62	0.0	22.0
			12	0	18.73	19.12	18.65	0.0	21.0	19.74	20.14	19.63	0.0	22.0
			12	6	18.75	19.14	18.60	0.0	21.0	19.74	20.16	19.60	0.0	22.0
			12	13	18.76	19.14	18.60	0.0	21.0	19.76	20.15	19.60	0.0	22.0
			25	0	18.75	19.15	18.61	0.0	21.0	19.75	20.16	19.60	0.0	22.0
		16QAM	1	1	18.68	19.19	18.60	0.0	21.0	19.75	20.23	19.68	0.0	22.0
			1	12	18.66	19.13	18.51	0.0	21.0	19.75	20.16	19.52	0.0	22.0
			1	23	18.82	19.27	18.53	0.0	21.0	19.82	20.21	19.64	0.0	22.0
		64QAM	1	1	18.72	19.19	18.69	0.0	21.0	19.83	20.04	19.71	0.0	22.0
		256QAM	1	1	18.86	19.02	18.60	0.5	20.5	18.82	19.13	18.69	1.5	20.5
	CP-OFDM	QPSK	1	1	18.73	19.13	18.68	0.0	21.0	19.76	20.14	19.71	0.0	22.0

NR Band n25 (Ant. A) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm) RSI = 0, 3 Measured Pwr (dBm) 374000 1870.00 MHz	376500 1882.50 MHz	379000 1895.00 MHz	MPR	Tune-up Limit	Maximum Allowed Average Power (dBm) RSI = 4 Measured Pwr (dBm) 374000 1870.00 MHz	376500 1882.50 MHz	379000 1895.00 MHz	MPR	Tune-up Limit
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1		18.93		0.0	21.0		22.04		0.0	23.5
			1	107		19.31		0.0	21.0		22.34		0.0	23.5
			1	214		18.95		0.0	21.0		22.06		0.0	23.5
			108	0		19.28		0.0	21.0		21.42		0.0	23.5
			108	54		19.29		0.0	21.0		22.35		0.0	23.5
			108	108		19.12		0.0	21.0		21.24		0.0	23.5
			216	0		19.27		0.0	21.0		21.40		0.0	23.5
		QPSK	1	1		19.19		0.0	21.0		22.37		0.0	23.5
			1	107		**19.29**		0.0	21.0		**22.49**		0.0	23.5
			1	214		18.92		0.0	21.0		21.99		0.0	23.5
			108	0		19.25		0.0	21.0		21.36		0.0	23.5
			108	54		**19.26**		0.0	21.0		**22.45**		0.0	23.5
			108	108		19.10		0.0	21.0		21.28		0.0	23.5
			216	0		19.24		0.0	21.0		21.42		0.0	23.5
		16QAM	1	1		18.91		0.0	21.0		21.01		0.0	23.5
			1	107		19.26		0.0	21.0		21.39		0.0	23.5
			1	214		18.86		0.0	21.0		21.20		0.0	23.5
		64QAM	1	1		18.81		0.0	21.0		21.38		0.0	23.5
		256QAM	1	1		18.81		0.0	21.0		19.45		3.5	20.0
	CP-OFDM	QPSK	1	1		19.07		0.0	21.0		21.43		0.0	23.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm) 373000 1865.00 MHz	376500 1882.50 MHz	380000 1900.00 MHz	MPR	Tune-up Limit	Measured Pwr (dBm) 373000 1865.00 MHz	376500 1882.50 MHz	380000 1900.00 MHz	MPR	Tune-up Limit
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1		18.92		0.0	21.0		21.89		0.0	23.5
			1	79		19.15		0.0	21.0		22.04		0.0	23.5
			1	158		19.01		0.0	21.0		22.04		0.0	23.5
			80	0		19.09		0.0	21.0		21.08		0.0	23.5
			80	40		19.06		0.0	21.0		22.04		0.0	23.5
			80	80		19.04		0.0	21.0		21.10		0.0	23.5
			160	0		19.05		0.0	21.0		21.10		0.0	23.5
		QPSK	1	1		18.88		0.0	21.0		21.87		0.0	23.5
			1	79		19.10		0.0	21.0		22.00		0.0	23.5
			1	158		19.03		0.0	21.0		22.02		0.0	23.5
			80	0		19.07		0.0	21.0		21.18		0.0	23.5
			80	40		19.05		0.0	21.0		22.07		0.0	23.5
			80	80		19.05		0.0	21.0		21.08		0.0	23.5
			160	0		19.05		0.0	21.0		21.12		0.0	23.5
		16QAM	1	1		18.97		0.0	21.0		21.15		0.0	23.5
			1	79		19.09		0.0	21.0		21.18		0.0	23.5
			1	158		18.97		0.0	21.0		21.06		0.0	23.5
		64QAM	1	1		18.84		0.0	21.0		21.43		0.0	23.5
		256QAM	1	1		18.84		0.0	21.0		19.38		3.5	20.0
	CP-OFDM	QPSK	1	1		18.85		0.0	21.0		21.38		0.0	23.5

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm) 372500 1862.50 MHz	376500 1882.50 MHz	380500 1902.50 MHz	MPR	Tune-up Limit	Measured Pwr (dBm) 372500 1862.50 MHz	376500 1882.50 MHz	380500 1902.50 MHz	MPR	Tune-up Limit
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1		18.97		0.0	21.0		22.07		0.0	23.5
			1	66		18.99		0.0	21.0		22.04		0.0	23.5
			1	131		19.05		0.0	21.0		22.14		0.0	23.5
			64	0		19.09		0.0	21.0		21.12		0.0	23.5
			64	34		19.06		0.0	21.0		22.13		0.0	23.5
			64	69		19.03		0.0	21.0		21.14		0.0	23.5
			128	0		19.07		0.0	21.0		21.15		0.0	23.5
		QPSK	1	1		18.95		0.0	21.0		22.00		0.0	23.5
			1	66		18.95		0.0	21.0		21.99		0.0	23.5
			1	131		19.04		0.0	21.0		22.07		0.0	23.5
			64	0		19.08		0.0	21.0		21.22		0.0	23.5
			64	34		19.04		0.0	21.0		22.16		0.0	23.5
			64	69		19.01		0.0	21.0		21.09		0.0	23.5
			128	0		19.07		0.0	21.0		21.14		0.0	23.5
		16QAM	1	1		19.09		0.0	21.0		21.05		0.0	23.5
			1	66		19.08		0.0	21.0		21.00		0.0	23.5
			1	131		19.07		0.0	21.0		21.14		0.0	23.5
		64QAM	1	1		18.95		0.0	21.0		21.24		0.0	23.5
		256QAM	1	1		18.89		0.0	21.0		19.53		3.5	20.0
	CP-OFDM	QPSK	1	1		18.95		0.0	21.0		21.29		0.0	23.5

NR Band n25 (Ant. A) 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
					372000	376500	381000			372000	376500	381000		
					1860.00 MHz	1882.50 MHz	1905.00 MHz			1860.00 MHz	1882.50 MHz	1905.00 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.05	18.66	19.02	0.0	21.0	21.58	22.06	22.12	0.0	23.5
			1	52	18.77	18.76	19.02	0.0	21.0	21.77	22.14	21.95	0.0	23.5
			1	104	18.93	18.97	19.07	0.0	21.0	21.81	22.16	21.24	0.0	23.5
			50	0	19.01	18.71	19.14	0.0	21.0	21.71	21.19	21.05	0.0	23.5
			50	28	18.84	18.76	19.10	0.0	21.0	21.85	22.14	22.04	0.0	23.5
			50	56	18.92	18.86	19.05	0.0	21.0	21.89	21.10	21.13	0.0	23.5
			100	0	18.84	18.78	19.11	0.0	21.0	21.82	21.13	21.97	0.0	23.5
		QPSK	1	1	19.06	18.68	19.05	0.0	21.0	21.53	22.10	22.18	0.0	23.5
			1	52	18.79	18.78	19.06	0.0	21.0	21.74	22.15	21.95	0.0	23.5
			1	104	18.95	18.96	19.07	0.0	21.0	21.75	22.09	21.22	0.0	23.5
			50	0	19.02	18.71	19.14	0.0	21.0	21.76	21.14	21.98	0.0	23.5
			50	28	18.86	18.77	19.10	0.0	21.0	21.80	22.12	22.02	0.0	23.5
			50	56	18.94	18.86	19.07	0.0	21.0	21.94	21.12	21.11	0.0	23.5
			100	0	18.84	18.79	19.12	0.0	21.0	21.87	21.20	21.04	0.0	23.5
		16QAM	1	1	18.96	18.62	19.12	0.0	21.0	21.69	21.14	21.12	0.0	23.5
			1	52	18.71	18.72	19.12	0.0	21.0	21.82	21.21	21.00	0.0	23.5
			1	104	18.91	18.96	19.09	0.0	21.0	21.01	21.18	21.52	0.0	23.5
		64QAM	1	1	19.01	18.73	19.06	0.0	21.0	21.32	21.34	21.27	0.0	23.5
		256QAM	1	1	18.95	18.64	18.97	0.0	21.0	19.57	19.60	19.54	3.5	20.0
	CP-OFDM	QPSK	1	1	19.02	18.65	19.07	0.0	21.0	21.34	21.37	21.34	0.0	23.5

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		
					1857.50 MHz	1882.50 MHz	1907.50 MHz			1857.50 MHz	1882.50 MHz	1907.50 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.07	18.65	19.11	0.0	21.0	21.25	22.03	21.92	0.0	23.5
			1	39	18.91	18.68	18.98	0.0	21.0	21.73	22.05	21.94	0.0	23.5
			1	77	19.01	18.80	19.07	0.0	21.0	21.44	22.02	21.16	0.0	23.5
			36	0	18.96	18.68	19.10	0.0	21.0	21.56	21.15	21.94	0.0	23.5
			36	21	18.94	18.75	19.08	0.0	21.0	21.78	22.09	21.99	0.0	23.5
			36	43	19.03	18.76	19.05	0.0	21.0	21.90	21.14	21.09	0.0	23.5
			75	0	18.93	18.73	19.10	0.0	21.0	21.79	21.18	21.00	0.0	23.5
		QPSK	1	1	19.10	18.60	19.11	0.0	21.0	21.15	21.97	21.99	0.0	23.5
			1	39	18.93	18.62	19.00	0.0	21.0	21.73	22.07	21.97	0.0	23.5
			1	77	19.01	18.76	19.08	0.0	21.0	21.40	22.02	21.03	0.0	23.5
			36	0	18.96	18.66	19.13	0.0	21.0	21.79	21.13	21.95	0.0	23.5
			36	21	18.93	18.73	19.08	0.0	21.0	21.86	22.11	21.99	0.0	23.5
			36	43	19.02	18.75	19.06	0.0	21.0	21.83	21.12	21.02	0.0	23.5
			75	0	18.93	18.74	19.11	0.0	21.0	21.85	21.16	21.02	0.0	23.5
		16QAM	1	1	19.14	18.60	19.11	0.0	21.0	21.44	21.17	21.57	0.0	23.5
			1	39	19.12	18.65	18.99	0.0	21.0	21.76	21.03	21.53	0.0	23.5
			1	77	19.01	18.77	19.10	0.0	21.0	21.67	21.18	21.39	0.0	23.5
		64QAM	1	1	19.04	18.57	19.18	0.0	21.0	21.34	21.26	21.34	0.0	23.5
		256QAM	1	1	19.08	18.60	18.93	0.0	21.0	19.65	19.65	19.63	3.5	20.0
	CP-OFDM	QPSK	1	1	19.08	18.64	19.15	0.0	21.0	21.37	21.40	21.37	0.0	23.5

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		
					1855.00 MHz	1882.50 MHz	1910.00 MHz			1855.00 MHz	1882.50 MHz	1910.00 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.94	18.66	19.00	0.0	21.0	21.76	22.16	21.90	0.0	23.5
			1	25	18.88	18.73	18.96	0.0	21.0	21.75	22.17	22.03	0.0	23.5
			1	50	19.00	18.79	18.96	0.0	21.0	21.86	22.12	21.68	0.0	23.5
			25	0	18.86	18.69	19.04	0.0	21.0	21.75	21.12	21.67	0.0	23.5
			25	13	18.91	18.71	19.03	0.0	21.0	21.80	22.09	22.00	0.0	23.5
			25	27	18.95	18.77	19.05	0.0	21.0	21.85	21.12	21.88	0.0	23.5
			50	0	18.92	18.71	19.03	0.0	21.0	21.76	21.10	21.02	0.0	23.5
		QPSK	1	1	18.90	18.64	19.07	0.0	21.0	21.64	22.18	21.96	0.0	23.5
			1	25	18.87	18.70	19.03	0.0	21.0	21.83	22.18	22.04	0.0	23.5
			1	50	18.98	18.76	19.00	0.0	21.0	21.87	22.13	21.57	0.0	23.5
			25	0	18.84	18.68	19.09	0.0	21.0	21.76	21.21	21.01	0.0	23.5
			25	13	18.90	18.70	19.04	0.0	21.0	21.83	22.11	22.01	0.0	23.5
			25	27	18.94	18.74	19.07	0.0	21.0	21.80	21.17	21.01	0.0	23.5
			50	0	18.90	18.71	19.06	0.0	21.0	21.78	21.17	21.01	0.0	23.5
		16QAM	1	1	19.01	18.60	19.13	0.0	21.0	21.63	21.17	21.05	0.0	23.5
			1	25	18.94	18.66	19.13	0.0	21.0	21.74	21.15	21.10	0.0	23.5
			1	50	19.03	18.75	19.10	0.0	21.0	21.92	21.12	21.46	0.0	23.5
		64QAM	1	1	18.91	18.68	19.16	0.0	21.0	21.44	21.45	21.50	0.0	23.5
		256QAM	1	1	18.82	18.62	19.10	0.0	21.0	19.71	19.72	19.75	3.5	20.0
	CP-OFDM	QPSK	1	1	18.91	18.71	19.12	0.0	21.0	21.43	21.47	21.45	0.0	23.5

NR Band n25 (Ant. A) 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
					370500	376500	382500			370500	376500	382500		
					1852.50 MHz	1882.50 MHz	1912.50 MHz			1852.50 MHz	1882.50 MHz	1912.50 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.87	18.66	19.06	0.0	21.0	21.47	22.10	21.97	0.0	23.5
			1	12	18.91	18.60	18.92	0.0	21.0	21.59	22.00	21.80	0.0	23.5
			1	23	18.92	18.68	19.02	0.0	21.0	21.71	22.10	21.56	0.0	23.5
			12	0	18.89	18.59	19.05	0.0	21.0	21.67	21.17	21.03	0.0	23.5
			12	6	18.92	18.60	19.01	0.0	21.0	21.71	22.08	21.88	0.0	23.5
			12	13	18.90	18.62	18.99	0.0	21.0	21.73	21.12	21.92	0.0	23.5
			25	0	18.92	18.61	19.04	0.0	21.0	21.73	21.08	21.05	0.0	23.5
		QPSK	1	1	18.87	18.63	19.03	0.0	21.0	21.47	22.12	22.09	0.0	23.5
			1	12	18.92	18.58	18.93	0.0	21.0	21.60	22.01	21.79	0.0	23.5
			1	23	18.92	18.67	19.01	0.0	21.0	21.68	22.12	21.49	0.0	23.5
			12	0	18.90	18.59	19.05	0.0	21.0	21.63	21.18	21.03	0.0	23.5
			12	6	18.92	18.59	19.02	0.0	21.0	21.64	22.10	21.88	0.0	23.5
			12	13	18.90	18.60	18.98	0.0	21.0	21.64	21.08	21.77	0.0	23.5
			25	0	18.91	18.60	19.02	0.0	21.0	21.68	21.15	21.75	0.0	23.5
		16QAM	1	1	18.79	18.61	19.12	0.0	21.0	21.73	21.14	21.73	0.0	23.5
			1	12	18.92	18.57	19.05	0.0	21.0	21.66	21.05	21.87	0.0	23.5
			1	23	18.84	18.64	19.15	0.0	21.0	21.61	21.17	21.85	0.0	23.5
		64QAM	1	1	18.79	18.56	19.14	0.0	21.0	21.44	21.49	21.51	0.0	23.5
		256QAM	1	1	18.81	18.67	19.07	0.0	21.0	19.75	19.71	19.76	3.5	20.0
	CP-OFDM	QPSK	1	1	18.90	18.50	19.06	0.0	21.0	21.58	21.57	21.61	0.0	23.5

NR Band n5 (Ant. A) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)			MPR	Tune-up Limit
					RSI = 0, 3, 4				
					Measured Pwr (dBm)				
					166800	167300	167800		
					834.00 MHz	836.50 MHz	839.00 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1		23.83		0.0	25.5
			1	52		23.87		0.0	25.5
			1	104		23.50		0.0	25.5
			50	0		22.87		0.5	25.0
			50	28		23.84		0.0	25.5
			50	56		22.73		0.5	25.0
			100	0		22.87		0.5	25.0
		QPSK	1	1		23.85		0.0	25.5
			1	52		**23.90**		0.0	25.5
			1	104		23.55		0.0	25.5
			50	0		22.88		1.0	24.5
			50	28		**23.84**		0.0	25.5
			50	56		22.73		1.0	24.5
			100	0		22.86		1.0	24.5
		16QAM	1	1		22.92		1.0	24.5
			1	52		23.01		1.0	24.5
			1	104		22.57		1.0	24.5
		64QAM	1	1		21.37		2.5	23.0
		256QAM	1	1		19.33		4.5	21.0
	CP-OFDM	QPSK	1	1		22.40		1.5	24.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					166300	167300	168300		
					831.50 MHz	836.50 MHz	841.50 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1		23.62		0.0	25.5
			1	39		23.65		0.0	25.5
			1	77		23.60		0.0	25.5
			36	0		22.70		0.5	25.0
			36	21		23.72		0.0	25.5
			36	43		22.68		0.5	25.0
			75	0		22.73		0.5	25.0
		QPSK	1	1		23.59		0.0	25.5
			1	39		23.60		0.0	25.5
			1	77		23.59		0.0	25.5
			36	0		22.71		1.0	24.5
			36	21		23.71		0.0	25.5
			36	43		22.69		1.0	24.5
			75	0		22.73		1.0	24.5
		16QAM	1	1		22.69		1.0	24.5
			1	39		22.67		1.0	24.5
			1	77		22.65		1.0	24.5
		64QAM	1	1		21.26		2.5	23.0
		256QAM	1	1		19.11		4.5	21.0
	CP-OFDM	QPSK	1	1		22.14		1.5	24.0

NR Band n5 (Ant. A) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					165800	167300	168800		
					829.00 MHz	836.50 MHz	844.00 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1		23.72		0.0	25.5
			1	25		23.73		0.0	25.5
			1	50		23.70		0.0	25.5
			25	0		22.72		0.5	25.0
			25	13		23.73		0.0	25.5
			25	27		22.72		0.5	25.0
			50	0		22.74		0.5	25.0
		QPSK	1	1		23.70		0.0	25.5
			1	25		23.76		0.0	25.5
			1	50		23.71		0.0	25.5
			25	0		22.73		1.0	24.5
			25	13		23.74		0.0	25.5
			25	27		22.71		1.0	24.5
			50	0		22.74		1.0	24.5
		16QAM	1	1		22.67		1.0	24.5
			1	25		22.86		1.0	24.5
			1	50		22.76		1.0	24.5
		64QAM	1	1		21.18		2.5	23.0
		256QAM	1	1		19.32		4.5	21.0
	CP-OFDM	QPSK	1	1		22.21		1.5	24.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					165300	167300	169300		
					826.50 MHz	836.50 MHz	846.50 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.59	23.70	23.63	0.0	25.5
			1	12	23.57	23.65	23.50	0.0	25.5
			1	23	23.66	23.69	23.55	0.0	25.5
			12	0	22.60	22.72	22.61	0.5	25.0
			12	6	23.61	23.72	23.58	0.0	25.5
			12	13	22.65	22.73	22.57	0.5	25.0
			25	0	22.63	22.73	22.59	0.5	25.0
		QPSK	1	1	23.60	23.71	23.62	0.0	25.5
			1	12	23.57	23.65	23.51	0.0	25.5
			1	23	23.65	23.71	23.56	0.0	25.5
			12	0	22.59	22.72	22.60	1.0	24.5
			12	6	23.63	23.73	23.60	0.0	25.5
			12	13	22.64	22.73	22.58	1.0	24.5
			25	0	22.63	22.74	22.59	1.0	24.5
		16QAM	1	1	22.62	22.73	22.72	1.0	24.5
			1	12	22.61	22.63	22.55	1.0	24.5
			1	23	22.76	22.71	22.66	1.0	24.5
		64QAM	1	1	21.19	21.27	21.24	2.5	23.0
		256QAM	1	1	19.08	19.28	19.06	4.5	21.0
	CP-OFDM	QPSK	1	1	22.10	22.24	22.15	1.5	24.0

NR Band n30 (Ant. A) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm) RSI = 0, 3 Measured Pwr (dBm)			MPR	Tune-up Limit	Maximum Allowed Average Power (dBm) RSI = 4 Measured Pwr (dBm)			MPR	Tune-up Limit
						462000					462000			
						2310.00 MHz					2310.00 MHz			
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1		19.77		0.0	21.0		20.97		0.0	22.5
			1	25		19.71		0.0	21.0		20.88		0.0	22.5
			1	50		19.79		0.0	21.0		20.98		0.0	22.5
			25	0		19.77		0.0	21.0		20.93		0.5	22.0
			25	13		19.77		0.0	21.0		20.92		0.0	22.5
			25	27		19.77		0.0	21.0		20.94		0.5	22.0
			50	0		19.78		0.0	21.0		20.92		0.5	22.0
		QPSK	1	1		19.78		0.0	21.0		20.98		0.0	22.5
			1	25		19.74		0.0	21.0		20.92		0.0	22.5
			1	50		**19.82**		0.0	21.0		**20.99**		0.0	22.5
			25	0		19.67		0.0	21.0		20.93		1.0	21.5
			25	13		**19.78**		0.0	21.0		**20.96**		0.0	22.5
			25	27		19.71		0.0	21.0		20.95		1.0	21.5
			50	0		19.77		0.0	21.0		20.93		1.0	21.5
		16QAM	1	1		19.83		0.0	21.0		20.98		1.0	21.5
			1	25		19.80		0.0	21.0		20.80		1.0	21.5
			1	50		19.88		0.0	21.0		20.88		1.0	21.5
		64QAM	1	1		19.76		1.0	20.0		19.92		2.5	20.0
		256QAM	1	1		17.79		3.0	18.0		17.91		4.5	18.0
	CP-OFDM	QPSK	1	1		19.77		0.0	21.0		20.91		1.5	21.0

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		
					2307.50 MHz	2310.00 MHz	2312.50 MHz			2307.50 MHz	2310.00 MHz	2312.50 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1		19.35		0.0	21.0		20.43		0.0	22.5
			1	12		19.26		0.0	21.0		20.34		0.0	22.5
			1	23		19.34		0.0	21.0		20.42		0.0	22.5
			12	0		19.29		0.0	21.0		20.38		0.5	22.0
			12	6		19.31		0.0	21.0		20.38		0.0	22.5
			12	13		19.31		0.0	21.0		20.40		0.5	22.0
			25	0		19.30		0.0	21.0		20.39		0.5	22.0
		QPSK	1	1		19.35		0.0	21.0		20.43		0.0	22.5
			1	12		19.28		0.0	21.0		20.37		0.0	22.5
			1	23		19.33		0.0	21.0		20.47		0.0	22.5
			12	0		19.29		0.0	21.0		20.38		1.0	21.5
			12	6		19.30		0.0	21.0		20.40		0.0	22.5
			12	13		19.32		0.0	21.0		20.39		1.0	21.5
			25	0		19.32		0.0	21.0		20.39		1.0	21.5
		16QAM	1	1		19.32		0.0	21.0		20.41		1.0	21.5
			1	12		19.26		0.0	21.0		20.29		1.0	21.5
			1	23		19.31		0.0	21.0		20.39		1.0	21.5
		64QAM	1	1		19.41		1.0	20.0		19.36		2.5	20.0
		256QAM	1	1		17.57		3.0	18.0		17.43		4.5	18.0
	CP-OFDM	QPSK	1	1		19.27		0.0	21.0		20.27		1.5	21.0

NR Band n41 (Ant. A) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm) RSI = 0, 3 Measured Pwr (dBm)					MPR	Tune-up Limit	Maximum Allowed Average Power (dBm) RSI = 4 Measured Pwr (dBm)					MPR	Tune-up Limit
							518598							518598				
							2592.99 MHz							2592.99 MHz				
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1			16.81			0.0	18.0			14.79			0.0	16.0
			1	136			17.57			0.0	18.0			15.50			0.0	16.0
			1	271			17.23			0.0	18.0			15.12			0.0	16.0
			135	0			17.18			0.0	18.0			15.16			0.0	16.0
			135	69			17.59			0.0	18.0			15.58			0.0	16.0
			135	138			17.18			0.0	18.0			15.17			0.0	16.0
			270	0			17.56			0.0	18.0			15.55			0.0	16.0
		QPSK	1	1			16.89			0.0	18.0			14.70			0.0	16.0
			1	136			**17.65**			0.0	18.0			**15.66**			0.0	16.0
			1	271			17.31			0.0	18.0			15.13			0.0	16.0
			135	0			17.18			0.0	18.0			15.08			0.0	16.0
			135	69			**17.59**			0.0	18.0			**15.63**			0.0	16.0
			135	138			17.21			0.0	18.0			15.17			0.0	16.0
			270	0			17.56			0.0	18.0			15.38			0.0	16.0
		16QAM	1	1			16.92			0.0	18.0			14.75			0.0	16.0
			1	136			17.61			0.0	18.0			15.57			0.0	16.0
			1	271			17.31			0.0	18.0			15.14			0.0	16.0
		64QAM	1	1			16.85			0.0	18.0			14.76			0.0	16.0
		256QAM	1	1			16.87			0.0	18.0			14.78			0.0	16.0
	CP-OFDM	QPSK	1	1			17.62			0.0	18.0			15.66			0.0	16.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm) 508200				528996	MPR	Tune-up Limit	Measured Pwr (dBm) 508200				528996	MPR	Tune-up Limit
					2541.00 MHz				2644.98 MHz			2541.00 MHz				2644.98 MHz		
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.35				17.31	0.0	18.0	15.34				15.19	0.0	16.0
			1	122	17.42				17.41	0.0	18.0	15.27				15.40	0.0	16.0
			1	243	17.59				16.91	0.0	18.0	15.52				14.81	0.0	16.0
			120	0	17.18				17.17	0.0	18.0	15.03				15.17	0.0	16.0
			120	62	17.35				17.44	0.0	18.0	15.18				15.27	0.0	16.0
			120	125	17.23				17.09	0.0	18.0	15.11				14.93	0.0	16.0
			243	0	17.31				17.42	0.0	18.0	15.24				15.36	0.0	16.0
		QPSK	1	1	17.31				17.37	0.0	18.0	15.18				15.22	0.0	16.0
			1	122	17.41				17.51	0.0	18.0	15.28				15.34	0.0	16.0
			1	243	17.59				16.91	0.0	18.0	15.46				14.79	0.0	16.0
			120	0	17.12				17.17	0.0	18.0	15.02				15.08	0.0	16.0
			120	62	17.36				17.45	0.0	18.0	15.22				15.36	0.0	16.0
			120	125	17.18				17.12	0.0	18.0	15.06				14.92	0.0	16.0
			243	0	17.26				17.43	0.0	18.0	15.07				15.40	0.0	16.0
		16QAM	1	1	16.84				17.35	0.0	18.0	14.75				15.22	0.0	16.0
			1	122	16.99				17.46	0.0	18.0	14.86				15.28	0.0	16.0
			1	243	17.40				16.93	0.0	18.0	15.36				14.75	0.0	16.0
		64QAM	1	1	16.81				16.93	0.0	18.0	14.71				14.80	0.0	16.0
		256QAM	1	1	16.86				17.32	0.0	18.0	14.79				15.20	0.0	16.0
	CP-OFDM	QPSK	1	1	16.85				17.29	0.0	18.0	15.19				15.22	0.0	16.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm) 507204				529998	MPR	Tune-up Limit	Measured Pwr (dBm) 507204				529998	MPR	Tune-up Limit
					2536.02 MHz				2649.99 MHz			2536.02 MHz				2649.99 MHz		
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.26				17.26	0.0	18.0	15.10				15.22	0.0	16.0
			1	108	17.38				17.56	0.0	18.0	15.19				15.40	0.0	16.0
			1	215	17.29				17.00	0.0	18.0	15.10				14.87	0.0	16.0
			108	0	17.06				17.24	0.0	18.0	15.00				15.08	0.0	16.0
			108	54	17.30				17.50	0.0	18.0	15.17				15.34	0.0	16.0
			108	109	17.08				17.24	0.0	18.0	14.96				15.07	0.0	16.0
			216	0	17.25				17.44	0.0	18.0	15.20				15.32	0.0	16.0
		QPSK	1	1	17.24				17.28	0.0	18.0	15.14				15.11	0.0	16.0
			1	108	17.33				17.26	0.0	18.0	15.32				15.10	0.0	16.0
			1	215	17.24				16.97	0.0	18.0	15.05				14.87	0.0	16.0
			108	0	17.00				17.22	0.0	18.0	14.82				15.08	0.0	16.0
			108	54	17.29				17.49	0.0	18.0	15.23				15.47	0.0	16.0
			108	109	17.04				17.48	0.0	18.0	14.97				15.44	0.0	16.0
			216	0	17.22				17.51	0.0	18.0	15.16				15.35	0.0	16.0
		16QAM	1	1	17.23				17.26	0.0	18.0	15.10				15.07	0.0	16.0
			1	108	17.33				17.51	0.0	18.0	15.19				15.50	0.0	16.0
			1	215	17.26				16.96	0.0	18.0	15.20				14.79	0.0	16.0
		64QAM	1	1	17.14				17.19	0.0	18.0	15.10				15.03	0.0	16.0
		256QAM	1	1	17.16				17.19	0.0	18.0	15.12				15.10	0.0	16.0
	CP-OFDM	QPSK	1	1	17.16				16.80	0.0	18.0	15.21				15.22	0.0	16.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant. A) 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
					506202				531000			506202				531000		
					2531.01 MHz				2655.00 MHz			2531.01 MHz				2655.00 MHz		
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.21				17.18	0.0	18.0	15.12				15.15	0.0	16.0
			1	94	17.47				17.49	0.0	18.0	15.39				15.33	0.0	16.0
			1	187	17.01				16.99	0.0	18.0	14.84				14.99	0.0	16.0
			90	0	17.15				17.38	0.0	18.0	15.12				14.97	0.0	16.0
			90	49	17.41				17.44	0.0	18.0	15.27				15.37	0.0	16.0
			90	99	17.38				17.08	0.0	18.0	15.33				15.24	0.0	16.0
			180	0	17.37				17.43	0.0	18.0	15.32				15.17	0.0	16.0
		QPSK	1	1	17.21				17.18	0.0	18.0	15.18				15.20	0.0	16.0
			1	94	17.42				17.48	0.0	18.0	15.29				15.24	0.0	16.0
			1	187	17.00				16.97	0.0	18.0	14.90				14.90	0.0	16.0
			90	0	17.15				17.39	0.0	18.0	14.96				14.98	0.0	16.0
			90	49	17.42				17.45	0.0	18.0	15.26				15.24	0.0	16.0
			90	99	17.35				17.43	0.0	18.0	15.16				15.25	0.0	16.0
			180	0	17.37				17.17	0.0	18.0	15.31				15.29	0.0	16.0
		16QAM	1	1	16.99				17.18	0.0	18.0	14.89				14.96	0.0	16.0
			1	94	17.32				17.44	0.0	18.0	15.26				15.25	0.0	16.0
			1	187	16.85				16.99	0.0	18.0	14.82				14.68	0.0	16.0
		64QAM	1	1	17.12				17.11	0.0	18.0	14.95				15.04	0.0	16.0
		256QAM	1	1	17.11				17.14	0.0	18.0	14.99				14.93	0.0	16.0
	CP-OFDM	QPSK	1	1	17.12				17.11	0.0	18.0	15.18				15.18	0.0	16.0

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		
					2526.00 MHz		2592.99 MHz		2659.98 MHz			2526.00 MHz		2592.99 MHz		2659.98 MHz		
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.32		16.99		17.25	0.0	18.0	15.31		15.16		15.13	0.0	16.0
			1	80	17.39		17.68		17.53	0.0	18.0	15.20		15.37		15.27	0.0	16.0
			1	160	17.55		17.18		17.05	0.0	18.0	15.43		15.54		15.40	0.0	16.0
			81	0	17.13		17.34		17.45	0.0	18.0	15.06		15.00		14.98	0.0	16.0
			81	40	17.25		17.62		17.48	0.0	18.0	15.15		15.10		15.12	0.0	16.0
			81	81	17.19		17.44		17.20	0.0	18.0	15.01		15.10		14.99	0.0	16.0
			162	0	17.21		17.60		17.45	0.0	18.0	15.17		15.16		15.05	0.0	16.0
		QPSK	1	1	17.21		17.00		17.23	0.0	18.0	15.11		15.17		15.08	0.0	16.0
			1	80	17.36		17.67		17.52	0.0	18.0	15.33		15.35		15.33	0.0	16.0
			1	160	17.53		17.18		17.05	0.0	18.0	15.37		15.44		15.44	0.0	16.0
			81	0	17.03		17.36		17.42	0.0	18.0	15.00		14.91		15.00	0.0	16.0
			81	40	17.35		17.64		17.48	0.0	18.0	15.29		15.25		15.34	0.0	16.0
			81	81	17.12		17.42		17.19	0.0	18.0	15.00		14.95		14.92	0.0	16.0
			162	0	17.19		17.59		17.45	0.0	18.0	15.01		15.15		15.02	0.0	16.0
		16QAM	1	1	16.80		17.01		17.22	0.0	18.0	14.66		14.67		14.77	0.0	16.0
			1	80	16.95		17.34		17.51	0.0	18.0	14.80		14.88		14.93	0.0	16.0
			1	160	17.30		17.15		17.06	0.0	18.0	15.27		15.22		15.14	0.0	16.0
		64QAM	1	1	16.77		17.04		17.15	0.0	18.0	14.76		14.75		14.63	0.0	16.0
		256QAM	1	1	16.77		17.00		17.16	0.0	18.0	14.73		14.60		14.66	0.0	16.0
	CP-OFDM	QPSK	1	1	16.84		17.00		17.17	0.0	18.0	15.21		15.17		15.15	0.0	16.0

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		
					2521.02 MHz		2592.99 MHz		2664.99 MHz			2521.02 MHz		2592.99 MHz		2664.99 MHz		
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.16		17.15		17.33	0.0	18.0	14.99		15.01		15.10	0.0	16.0
			1	66	17.15		17.72		17.61	0.0	18.0	15.01		15.15		15.06	0.0	16.0
			1	131	17.12		17.28		17.08	0.0	18.0	15.01		14.99		15.05	0.0	16.0
			64	0	16.89		17.46		17.49	0.0	18.0	14.84		14.88		14.79	0.0	16.0
			64	34	17.15		17.66		17.52	0.0	18.0	14.98		15.13		14.98	0.0	16.0
			64	69	17.29		17.56		17.23	0.0	18.0	15.14		15.16		15.16	0.0	16.0
			128	0	17.13		17.65		17.52	0.0	18.0	14.99		15.12		15.11	0.0	16.0
		QPSK	1	1	17.22		17.15		17.23	0.0	18.0	15.08		15.16		15.15	0.0	16.0
			1	66	17.19		17.64		17.56	0.0	18.0	15.07		15.08		15.15	0.0	16.0
			1	131	17.14		17.24		17.07	0.0	18.0	15.03		15.13		14.95	0.0	16.0
			64	0	17.15		17.42		17.43	0.0	18.0	15.09		14.98		15.12	0.0	16.0
			64	34	17.17		17.66		17.55	0.0	18.0	15.07		15.00		15.10	0.0	16.0
			64	69	17.31		17.52		17.20	0.0	18.0	15.21		15.27		15.16	0.0	16.0
			128	0	17.13		17.62		17.49	0.0	18.0	15.03		15.13		14.97	0.0	16.0
		16QAM	1	1	17.24		17.11		17.23	0.0	18.0	15.17		15.13		15.07	0.0	16.0
			1	66	17.22		17.69		17.61	0.0	18.0	15.21		15.19		15.07	0.0	16.0
			1	131	17.17		17.27		17.15	0.0	18.0	15.13		15.08		15.08	0.0	16.0
		64QAM	1	1	17.29		17.04		17.24	0.0	18.0	15.11		15.20		15.28	0.0	16.0
		256QAM	1	1	17.22		17.09		17.20	0.0	18.0	15.10		15.15		15.12	0.0	16.0
	CP-OFDM	QPSK	1	1	17.22		17.08		17.22	0.0	18.0	15.15		15.13		15.08	0.0	16.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant. A) 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	518598	523734	534000			503202	513468		523734	534000		
					2516.01 MHz	2567.34 MHz	2592.99 MHz	2618.67 MHz	2670.00 MHz			2516.01 MHz	2567.34 MHz		2618.67 MHz	2670.00 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.25	17.43		17.16	17.10	0.0	18.0	15.19	15.12		15.18	15.06	0.0	16.0
			1	52	17.14	17.48		17.31	17.14	0.0	18.0	15.14	14.96		15.01	15.14	0.0	16.0
			1	104	16.99	17.62		17.22	17.07	0.0	18.0	14.84	14.79		14.82	14.80	0.0	16.0
			50	0	17.16	17.20		17.43	17.07	0.0	18.0	15.07	15.15		15.05	15.08	0.0	16.0
			50	28	17.00	17.38		17.28	17.01	0.0	18.0	14.81	14.84		14.86	14.95	0.0	16.0
			50	56	17.00	17.28		17.42	17.02	0.0	18.0	14.97	14.88		14.84	14.89	0.0	16.0
			100	0	17.10	17.31		17.40	17.07	0.0	18.0	14.92	15.00		15.04	14.90	0.0	16.0
		QPSK	1	1	17.34	17.40		17.20	16.88	0.0	18.0	15.22	15.14		15.23	15.23	0.0	16.0
			1	52	17.12	17.47		17.34	17.04	0.0	18.0	14.96	14.98		14.92	15.10	0.0	16.0
			1	104	17.05	17.61		17.32	17.01	0.0	18.0	14.97	14.95		14.95	14.93	0.0	16.0
			50	0	17.25	17.13		17.23	16.90	0.0	18.0	15.20	15.10		15.15	15.18	0.0	16.0
			50	28	17.05	17.45		17.43	16.92	0.0	18.0	14.94	14.94		14.89	15.01	0.0	16.0
			50	56	17.13	17.22		17.34	16.94	0.0	18.0	14.94	14.94		14.98	15.00	0.0	16.0
			100	0	17.17	17.33		17.28	17.09	0.0	18.0	15.01	15.00		15.04	15.06	0.0	16.0
		16QAM	1	1	17.25	16.84		17.17	17.02	0.0	18.0	15.07	15.13		15.25	15.14	0.0	16.0
			1	52	17.13	17.09		17.39	17.13	0.0	18.0	15.11	15.06		14.97	15.11	0.0	16.0
			1	104	17.18	17.42		17.22	17.08	0.0	18.0	15.02	15.04		15.09	15.17	0.0	16.0
		64QAM	1	1	16.80	16.90		17.20	17.13	0.0	18.0	14.70	14.68		14.79	14.66	0.0	16.0
		256QAM	1	1	16.96	16.92		17.19	17.07	0.0	18.0	14.89	14.94		14.79	14.96	0.0	16.0
	CP-OFDM	QPSK	1	1	17.00	16.91		17.19	17.09	0.0	18.0	15.17	15.21		15.16	15.15	0.0	16.0

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		
					2511.00 MHz	2552.01 MHz	2592.99 MHz	2634.00 MHz	2674.98 MHz			2511.00 MHz	2552.01 MHz	2592.99 MHz	2634.00 MHz	2674.98 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.10	17.43	17.38	17.33	17.43	0.0	18.0	15.06	15.40	15.01	14.99	15.32	0.0	16.0
			1	39	16.99	17.45	17.42	17.42	17.52	0.0	18.0	14.81	15.30	14.95	14.83	15.40	0.0	16.0
			1	76	16.97	17.66	17.62	17.53	17.68	0.0	18.0	14.94	15.55	14.92	14.77	15.53	0.0	16.0
			36	0	17.14	17.28	17.26	17.11	17.21	0.0	18.0	15.11	15.16	14.99	15.02	15.22	0.0	16.0
			36	21	17.01	17.36	17.36	17.34	17.36	0.0	18.0	14.99	15.34	14.84	14.85	15.22	0.0	16.0
			36	42	17.03	17.32	17.28	17.22	17.24	0.0	18.0	14.98	15.19	14.88	14.86	15.17	0.0	16.0
			75	0	17.04	17.35	17.40	17.30	17.33	0.0	18.0	14.94	15.29	14.93	14.94	15.20	0.0	16.0
		QPSK	1	1	17.16	17.33	17.35	17.21	17.32	0.0	18.0	15.05	15.28	15.02	15.05	15.30	0.0	16.0
			1	39	17.04	17.51	17.41	17.41	17.41	0.0	18.0	14.88	15.50	14.86	14.86	15.37	0.0	16.0
			1	76	17.01	17.60	17.59	17.56	17.62	0.0	18.0	14.99	15.49	14.81	14.82	15.48	0.0	16.0
			36	0	17.07	17.13	17.15	17.05	17.19	0.0	18.0	15.02	15.12	14.89	14.92	15.11	0.0	16.0
			36	21	17.07	17.45	17.43	17.34	17.44	0.0	18.0	14.95	15.26	14.98	15.03	15.40	0.0	16.0
			36	42	17.01	17.25	17.25	17.09	17.22	0.0	18.0	14.90	15.07	14.95	14.85	15.12	0.0	16.0
			75	0	17.06	17.33	17.34	17.23	17.27	0.0	18.0	14.99	15.26	14.86	15.00	15.32	0.0	16.0
		16QAM	1	1	17.18	16.93	16.93	16.74	16.89	0.0	18.0	15.17	14.87	15.13	15.02	14.83	0.0	16.0
			1	39	17.05	17.03	17.09	16.97	17.09	0.0	18.0	14.98	14.94	14.89	14.88	14.87	0.0	16.0
			1	76	17.04	17.46	17.44	17.33	17.46	0.0	18.0	15.00	15.40	14.95	14.93	15.32	0.0	16.0
		64QAM	1	1	16.78	16.91	16.87	16.78	16.81	0.0	18.0	14.58	14.76	14.64	14.62	14.91	0.0	16.0
		256QAM	1	1	16.94	16.94	16.87	16.84	16.93	0.0	18.0	14.76	14.79	14.92	14.86	14.93	0.0	16.0
	CP-OFDM	QPSK	1	1	17.00	16.91	16.88	16.78	16.91	0.0	18.0	15.20	15.21	15.99	15.18	14.80	0.0	16.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)					MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
					501204	509904	518598	527298	535998			501204	509904	518598	527298	535998		
					2506.02 MHz	2549.52 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz			2506.02 MHz	2549.52 MHz	2592.99 MHz	2636.49 MHz	2679.99 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.45	17.39	17.69	17.38	17.12	0.0	18.0	15.08	15.25	15.08	14.99	15.40	0.0	16.0
			1	25	17.46	17.45	17.51	17.49	17.11	0.0	18.0	14.99	15.44	14.85	14.95	15.36	0.0	16.0
			1	49	17.61	17.62	17.53	17.59	16.98	0.0	18.0	14.95	15.47	14.84	14.86	15.48	0.0	16.0
			25	0	17.26	17.25	17.54	17.26	16.95	0.0	18.0	15.14	15.21	14.94	15.11	15.10	0.0	16.0
			25	13	17.43	17.42	17.60	17.38	17.00	0.0	18.0	14.83	15.16	15.00	14.92	15.19	0.0	16.0
			25	26	17.28	17.32	17.70	17.26	17.14	0.0	18.0	14.93	15.22	14.93	15.01	15.20	0.0	16.0
			50	0	17.37	17.36	17.54	17.36	17.14	0.0	18.0	14.84	15.33	14.88	14.95	15.27	0.0	16.0
		QPSK	1	1	17.32	17.36	17.59	17.33	17.03	0.0	18.0	14.98	15.29	15.03	15.01	15.25	0.0	16.0
			1	25	17.41	17.49	17.61	17.43	17.04	0.0	18.0	15.01	15.34	15.00	15.01	15.34	0.0	16.0
			1	49	17.65	17.68	17.70	17.60	17.04	0.0	18.0	14.90	15.56	15.01	14.97	15.44	0.0	16.0
			25	0	17.14	17.19	17.72	17.19	17.00	0.0	18.0	14.93	15.02	14.95	14.88	15.09	0.0	16.0
			25	13	17.44	17.39	17.75	17.46	17.03	0.0	18.0	14.98	15.26	15.03	15.05	15.44	0.0	16.0
			25	26	17.23	17.21	17.66	17.19	16.97	0.0	18.0	14.94	15.09	14.99	15.00	15.21	0.0	16.0
			50	0	17.32	17.32	17.77	17.33	16.96	0.0	18.0	15.00	15.23	14.86	15.03	15.33	0.0	16.0
		16QAM	1	1	16.87	16.85	17.62	16.92	17.03	0.0	18.0	15.01	14.90	15.14	15.14	14.81	0.0	16.0
			1	25	17.03	17.05	17.63	17.02	17.16	0.0	18.0	15.01	14.93	15.02	14.91	14.95	0.0	16.0
			1	49	17.42	17.47	17.55	17.41	17.12	0.0	18.0	14.90	15.34	15.01	14.95	15.32	0.0	16.0
		64QAM	1	1	16.86	16.82	17.57	16.83	16.99	0.0	18.0	14.64	14.88	14.72	14.76	14.80	0.0	16.0
		256QAM	1	1	16.95	16.89	17.59	16.95	17.03	0.0	18.0	14.89	14.94	14.79	14.75	14.88	0.0	16.0
	CP-OFDM	QPSK	1	1	16.88	16.89	17.60	16.92	16.94	0.0	18.0	14.87	14.72	14.98	14.90	14.77	0.0	16.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

NR Band n41 (Ant. A) 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
					500700	509652	518598	527550	536496			500700	509652	518598	527550	536496		
					2503.50 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz			2503.50 MHz	2548.26 MHz	2592.99 MHz	2637.75 MHz	2682.48 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.15	16.94	17.65	17.28	17.01	0.0	18.0	15.05	15.09	15.43	15.07	15.35	0.0	16.0
			1	18	17.07	17.07	17.68	17.35	17.14	0.0	18.0	14.79	14.95	15.28	14.84	15.25	0.0	16.0
			1	36	16.98	16.97	17.57	17.46	17.02	0.0	18.0	14.97	14.96	15.50	14.87	15.48	0.0	16.0
			18	0	17.24	16.90	17.68	17.35	17.13	0.0	18.0	15.13	15.00	15.15	14.97	15.21	0.0	16.0
			18	10	17.14	17.03	17.69	17.52	17.02	0.0	18.0	14.88	15.00	15.34	14.99	15.27	0.0	16.0
			18	20	17.06	16.94	17.67	17.44	17.01	0.0	18.0	14.89	15.00	15.29	14.91	15.31	0.0	16.0
			36	0	17.20	16.89	17.68	17.44	17.04	0.0	18.0	14.88	14.98	15.17	14.86	15.35	0.0	16.0
		QPSK	1	1	17.19	17.04	17.70	17.48	16.95	0.0	18.0	15.14	15.04	15.21	14.97	15.29	0.0	16.0
			1	18	16.97	17.01	17.65	17.39	16.93	0.0	18.0	14.93	14.87	15.43	14.90	15.38	0.0	16.0
			1	36	17.08	17.13	17.72	17.46	17.00	0.0	18.0	14.81	14.90	15.57	14.94	15.48	0.0	16.0
			18	0	17.07	17.03	17.67	17.33	17.03	0.0	18.0	14.88	14.87	15.04	15.03	15.06	0.0	16.0
			18	10	17.18	17.09	17.58	17.40	16.90	0.0	18.0	14.98	14.97	15.40	14.93	15.34	0.0	16.0
			18	20	17.14	17.10	17.65	17.44	17.08	0.0	18.0	14.99	14.93	15.23	14.93	15.16	0.0	16.0
			36	0	17.01	16.99	17.76	17.45	17.05	0.0	18.0	15.06	14.88	15.14	14.94	15.25	0.0	16.0
		16QAM	1	1	17.28	17.05	17.65	17.47	17.09	0.0	18.0	15.15	15.10	14.77	15.03	14.77	0.0	16.0
			1	18	17.14	17.09	17.55	17.44	17.05	0.0	18.0	14.89	15.03	14.84	14.90	14.84	0.0	16.0
			1	36	17.12	17.01	17.68	17.49	17.05	0.0	18.0	15.00	14.93	15.40	15.03	15.46	0.0	16.0
		64QAM	1	1	16.80	17.02	17.58	17.31	17.07	0.0	18.0	14.60	14.65	14.91	14.65	14.86	0.0	16.0
		256QAM	1	1	17.00	17.09	17.74	17.36	17.07	0.0	18.0	14.90	14.78	14.85	14.83	14.92	0.0	16.0
	CP-OFDM	QPSK	1	1	17.09	16.94	17.70	17.30	17.03	0.0	18.0	14.92	14.84	14.79	14.92	14.84	0.0	16.0

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	2547.00 MHz	2592.99 MHz	2639.01 MHz	2685.00 MHz			2501.01 MHz	2547.00 MHz	2592.99 MHz	2639.01 MHz	2685.00 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.08	16.82	17.52	17.27	16.95	0.0	18.0	14.94	15.24	15.05	15.01	15.26	0.0	16.0
			1	12	16.99	16.91	17.50	17.30	17.04	0.0	18.0	14.84	15.33	14.95	14.95	15.40	0.0	16.0
			1	22	16.93	16.89	17.46	17.33	16.96	0.0	18.0	14.93	15.54	14.85	14.82	15.58	0.0	16.0
			12	0	17.06	16.85	17.52	17.28	16.94	0.0	18.0	15.08	15.18	15.04	15.08	15.16	0.0	16.0
			12	6	16.98	16.87	17.51	17.32	16.95	0.0	18.0	14.82	15.29	14.96	14.89	15.16	0.0	16.0
			12	12	16.95	16.81	17.52	17.34	16.96	0.0	18.0	14.85	15.18	14.93	14.98	15.27	0.0	16.0
			24	0	17.01	16.88	17.53	17.32	16.98	0.0	18.0	14.94	15.21	14.91	14.96	15.18	0.0	16.0
		QPSK	1	1	17.15	16.92	17.57	17.33	16.83	0.0	18.0	15.08	15.26	15.15	15.11	15.24	0.0	16.0
			1	12	16.96	16.89	17.53	17.32	16.85	0.0	18.0	15.04	15.31	14.88	14.89	15.40	0.0	16.0
			1	22	16.97	16.93	17.56	17.39	16.87	0.0	18.0	14.99	15.51	14.91	14.93	15.44	0.0	16.0
			12	0	17.06	16.93	17.56	17.31	16.89	0.0	18.0	14.89	14.95	15.05	14.88	14.96	0.0	16.0
			12	6	17.01	16.92	17.58	17.34	16.89	0.0	18.0	14.90	15.42	14.95	15.07	15.38	0.0	16.0
			12	12	16.96	16.91	17.57	17.37	16.91	0.0	18.0	14.99	15.09	14.83	14.85	15.21	0.0	16.0
			24	0	17.01	16.93	17.58	17.34	16.93	0.0	18.0	14.98	15.16	14.92	14.90	15.19	0.0	16.0
		16QAM	1	1	17.09	16.95	17.52	17.31	16.96	0.0	18.0	15.16	14.78	15.06	15.10	14.91	0.0	16.0
			1	12	16.99	16.94	17.48	17.35	16.97	0.0	18.0	14.97	14.90	14.89	15.02	14.89	0.0	16.0
			1	22	16.98	16.93	17.51	17.39	16.97	0.0	18.0	15.01	15.40	15.03	14.93	15.29	0.0	16.0
		64QAM	1	1	16.75	16.92	17.55	17.25	16.96	0.0	18.0	14.64	14.82	14.68	14.61	14.80	0.0	16.0
		256QAM	1	1	16.90	16.91	17.55	17.26	16.91	0.0	18.0	14.86	14.87	14.81	14.90	14.93	0.0	16.0
	CP-OFDM	QPSK	1	1	16.95	16.89	17.57	17.29	16.93	0.0	18.0	14.90	14.90	14.81	14.98	14.87	0.0	16.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

NR Band n48 (Voice/Data/SRS0) (Ant. E) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)					
					RSI = 0, 3, 4					
					Measured Pwr (dBm)				MPR	Tune-up Limit
					638000		641666	645332		
					3570.00 MHz		3624.99 MHz	3679.98 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	13.63		13.86	14.25	0.0	15.0
			1	52	13.46		14.10	14.42	0.0	15.0
			1	104	13.61		14.32	14.50	0.0	15.0
			50	0	13.52		13.96	14.34	0.0	15.0
			50	28	13.49		14.16	14.49	0.0	15.0
			50	56	13.54		14.26	14.52	0.0	15.0
			100	0	13.52		14.10	14.44	0.0	15.0
		QPSK	1	1	13.68		13.90	14.28	0.0	15.0
			1	52	13.46		14.12	14.44	0.0	15.0
			1	104	13.63		14.35	**14.50**	0.0	15.0
			50	0	13.54		13.97	14.37	0.0	15.0
			50	28	13.52		14.16	14.50	0.0	15.0
			50	56	13.54		14.29	**14.56**	0.0	15.0
			100	0	13.51		14.14	14.34	0.0	15.0
		16QAM	1	1	13.70		13.70	14.21	0.0	15.0
			1	52	13.50		13.89	14.39	0.0	15.0
			1	104	13.68		14.19	14.43	0.0	15.0
		64QAM	1	1	13.61		13.71	14.17	0.0	15.0
		256QAM	1	1	13.63		13.70	14.17	0.0	15.0
	CP-OFDM	QPSK	1	1	13.67		13.70	14.18	0.0	15.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit
					637668	640334	643000	645666		
					3565.02 MHz	3605.01 MHz	3645.00 MHz	3684.99 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	13.59	13.81	14.23	14.33	0.0	15.0
			1	39	13.58	14.07	14.34	14.40	0.0	15.0
			1	76	13.56	14.17	14.33	14.37	0.0	15.0
			36	0	13.56	13.97	14.25	14.35	0.0	15.0
			36	21	13.57	14.03	14.34	14.44	0.0	15.0
			36	42	13.53	14.06	14.35	14.45	0.0	15.0
			75	0	13.59	14.03	14.32	14.42	0.0	15.0
		QPSK	1	1	13.66	13.93	14.20	14.36	0.0	15.0
			1	39	13.51	14.02	14.28	14.38	0.0	15.0
			1	76	13.57	14.25	14.27	14.37	0.0	15.0
			36	0	13.59	13.99	14.29	14.39	0.0	15.0
			36	21	13.58	14.06	14.51	14.61	0.0	15.0
			36	42	13.52	14.11	14.56	14.66	0.0	15.0
			75	0	13.61	14.09	14.21	14.31	0.0	15.0
		16QAM	1	1	13.73	13.72	14.15	14.34	0.0	15.0
			1	39	13.59	13.84	14.30	14.40	0.0	15.0
			1	76	13.63	14.05	14.21	14.31	0.0	15.0
		64QAM	1	1	13.62	13.74	14.13	14.29	0.0	15.0
		256QAM	1	1	13.63	13.73	14.10	14.30	0.0	15.0
	CP-OFDM	QPSK	1	1	13.65	13.69	14.10	14.34	0.0	15.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

NR Band n48 (Voice/Data/SRS0) (Ant. E) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit
					637334	640222	643112	646000		
					3560.01 MHz	3603.33 MHz	3646.68 MHz	3690.00 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	13.66	13.99	14.32	14.35	0.0	15.0
			1	25	13.57	14.10	14.39	14.47	0.0	15.0
			1	49	13.48	14.11	14.36	14.49	0.0	15.0
			25	0	13.72	14.06	14.37	14.49	0.0	15.0
			25	13	13.64	14.06	14.37	14.52	0.0	15.0
			25	26	13.66	14.10	14.37	14.53	0.0	15.0
			50	0	13.64	14.14	14.43	14.71	0.0	15.0
		QPSK	1	1	13.80	14.01	14.38	14.45	0.0	15.0
			1	25	13.63	14.16	14.37	14.45	0.0	15.0
			1	49	13.55	14.14	14.44	14.54	0.0	15.0
			25	0	13.78	14.10	14.55	14.67	0.0	15.0
			25	13	13.66	14.12	14.63	14.71	0.0	15.0
			25	26	13.71	14.18	14.29	14.38	0.0	15.0
			50	0	13.70	13.94	14.34	14.57	0.0	15.0
		16QAM	1	1	13.84	13.82	14.30	14.38	0.0	15.0
			1	25	13.67	13.98	14.20	14.32	0.0	15.0
			1	49	13.61	14.07	14.33	14.53	0.0	15.0
		64QAM	1	1	13.74	13.84	14.19	14.49	0.0	15.0
		256QAM	1	1	13.75	13.84	14.26	14.52	0.0	15.0
	CP-OFDM	QPSK	1	1	13.77	13.78	14.25	14.49	0.0	15.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit
					637168	640168	643166	646166		
					3557.52 MHz	3602.52 MHz	3647.49 MHz	3692.49 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	13.92	14.03	14.20	14.35	0.0	15.0
			1	18	13.79	14.10	14.27	14.33	0.0	15.0
			1	36	13.72	14.13	14.24	14.46	0.0	15.0
			18	0	13.92	14.12	14.25	14.43	0.0	15.0
			18	10	13.81	14.13	14.25	14.40	0.0	15.0
			18	20	13.84	14.12	14.24	14.47	0.0	15.0
			36	0	13.81	14.18	14.31	14.63	0.0	15.0
		QPSK	1	1	13.96	14.11	14.26	14.37	0.0	15.0
			1	18	13.76	14.20	14.25	14.27	0.0	15.0
			1	36	13.72	14.16	14.32	14.44	0.0	15.0
			18	0	13.87	14.16	14.49	14.60	0.0	15.0
			18	10	13.80	14.19	14.55	14.63	0.0	15.0
			18	20	13.80	14.18	14.17	14.33	0.0	15.0
			36	0	13.85	13.98	14.22	14.47	0.0	15.0
		16QAM	1	1	13.98	13.88	14.18	14.34	0.0	15.0
			1	18	13.84	14.01	14.08	14.22	0.0	15.0
			1	36	13.72	14.09	14.21	14.52	0.0	15.0
		64QAM	1	1	13.90	13.92	14.07	14.48	0.0	15.0
		256QAM	1	1	13.90	13.91	14.14	14.46	0.0	15.0
	CP-OFDM	QPSK	1	1	13.89	13.89	14.13	14.48	0.0	15.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

NR Band n48 (Voice/Data/SRS0) (Ant. E) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)				MPR	Tune-up Limit
					637000	640110	643222	646332		
					3555.00 MHz	3601.65 MHz	3648.33 MHz	3694.98 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	13.54	13.79	14.24	14.51	0.0	15.0
			1	12	13.62	13.93	14.39	14.58	0.0	15.0
			1	22	13.60	13.89	14.33	14.52	0.0	15.0
			12	0	13.56	13.84	14.30	14.50	0.0	15.0
			12	6	13.54	13.86	14.30	14.51	0.0	15.0
			12	12	13.58	13.88	14.33	14.52	0.0	15.0
			24	0	13.53	13.88	14.31	14.48	0.0	15.0
		QPSK	1	1	13.58	13.85	14.28	14.47	0.0	15.0
			1	12	13.52	13.81	14.24	14.43	0.0	15.0
			1	22	13.57	13.87	14.31	14.48	0.0	15.0
			12	0	13.56	13.84	14.31	14.48	0.0	15.0
			12	6	13.54	13.89	14.30	14.45	0.0	15.0
			12	12	13.58	13.88	14.31	14.47	0.0	15.0
			24	0	13.57	13.88	14.26	14.46	0.0	15.0
		16QAM	1	1	13.55	13.87	14.32	14.47	0.0	15.0
			1	12	13.55	13.91	14.33	14.48	0.0	15.0
			1	22	13.57	13.89	14.34	14.50	0.0	15.0
		64QAM	1	1	13.52	13.78	14.26	14.51	0.0	15.0
		256QAM	1	1	13.52	13.80	14.28	14.46	0.0	15.0
	CP-OFDM	QPSK	1	1	13.54	13.81	14.22	14.47	0.0	15.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

NR Band n48 (SRS1) (Ant. D) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)					
		RSI = 0, 3, 4					
		Measured Pwr (dBm)				MPR	Tune-up Limit
		638000		641666	645332		
		3570.00 MHz		3624.99 MHz	3679.98 MHz		
40 MHz	SRS CW	12.61		13.48	14.21	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)				MPR	Tune-up Limit
		637668	640334	643000	645666		
		3565.02 MHz	3605.01 MHz	3645.00 MHz	3684.99 MHz		
30 MHz	SRS CW	12.60	13.02	14.27	14.24	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)				MPR	Tune-up Limit
		637334	640222	643112	646000		
		3560.01 MHz	3603.33 MHz	3646.68 MHz	3690.00 MHz		
20 MHz	SRS CW	12.70	12.95	14.43	14.27	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)				MPR	Tune-up Limit
		637168	640168	643166	646166		
		3557.52 MHz	3602.52 MHz	3647.49 MHz	3692.49 MHz		
15 MHz	SRS CW	12.73	12.97	14.45	14.16	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)				MPR	Tune-up Limit
		637000	640110	643222	646332		
		3555.00 MHz	3601.65 MHz	3648.33 MHz	3694.98 MHz		
10 MHz	SRS CW	12.80	12.95	14.40	14.15	0.0	15.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

NR Band n48 (SRS2) (Ant. G) Measured Results

BW (MHz)	Mode	Maximum Average Power (dBm)					
		RSI = 0, 3, 4					
		Measured Pwr (dBm)				MPR	Tune-up Limit
		638000		641666	645332		
		3570.00 MHz		3624.99 MHz	3679.98 MHz		
40 MHz	SRS CW	12.70		13.13	13.87	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)				MPR	Tune-up Limit
		637668	640334	643000	645666		
		3565.02 MHz	3605.01 MHz	3645.00 MHz	3684.99 MHz		
30 MHz	SRS CW	12.84	12.88	13.89	13.97	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)				MPR	Tune-up Limit
		637334	640222	643112	646000		
		3560.01 MHz	3603.33 MHz	3646.68 MHz	3690.00 MHz		
20 MHz	SRS CW	12.86	12.91	14.05	14.09	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)				MPR	Tune-up Limit
		637168	640168	643166	646166		
		3557.52 MHz	3602.52 MHz	3647.49 MHz	3692.49 MHz		
15 MHz	SRS CW	12.85	12.99	14.09	14.03	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)				MPR	Tune-up Limit
		637000	640110	643222	646332		
		3555.00 MHz	3601.65 MHz	3648.33 MHz	3694.98 MHz		
10 MHz	SRS CW	12.87	12.97	14.12	14.00	0.0	15.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

NR Band n48 (SRS3) (Ant. F) Measured Results

BW (MHz)	Mode	Maximum Average Power (dBm)					
		RSI = 0, 3, 4					
		Measured Pwr (dBm)				MPR	Tune-up Limit
		638000		641666	645332		
		3570.00 MHz		3624.99 MHz	3679.98 MHz		
40 MHz	SRS CW	12.65		13.56	13.76	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)				MPR	Tune-up Limit
		637668	640334	643000	645666		
		3565.02 MHz	3605.01 MHz	3645.00 MHz	3684.99 MHz		
30 MHz	SRS CW	12.64	13.18	13.95	13.74	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)				MPR	Tune-up Limit
		637334	640222	643112	646000		
		3560.01 MHz	3603.33 MHz	3646.68 MHz	3690.00 MHz		
20 MHz	SRS CW	12.79	13.08	14.09	13.72	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)				MPR	Tune-up Limit
		637168	640168	643166	646166		
		3557.52 MHz	3602.52 MHz	3647.49 MHz	3692.49 MHz		
15 MHz	SRS CW	12.68	13.16	13.98	13.32	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)				MPR	Tune-up Limit
		637000	640110	643222	646332		
		3555.00 MHz	3601.65 MHz	3648.33 MHz	3694.98 MHz		
10 MHz	SRS CW	12.65	13.18	13.59	13.00	0.0	15.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

NR Band n66 (Ant. A) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm) RSI = 0, 3			MPR	Tune-up Limit	Maximum Allowed Average Power (dBm) RSI = 4			MPR	Tune-up Limit
					Measured Pwr (dBm)					Measured Pwr (dBm)				
					346000	349000	352000			346000	349000	352000		
					1730.00 MHz	1745.00 MHz	1760.00 MHz			1730.00 MHz	1745.00 MHz	1760.00 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1		18.82		0.0	20.0		21.81		0.0	23.5
			1	107		18.61		0.0	20.0		21.69		0.0	23.5
			1	214		18.45		0.0	20.0		21.45		0.0	23.5
			108	0		19.13		0.0	20.0		21.18		0.0	23.5
			108	54		18.63		0.0	20.0		21.70		0.0	23.5
			108	108		18.31		0.0	20.0		21.43		0.0	23.5
			216	0		18.60		0.0	20.0		21.64		0.0	23.5
		QPSK	1	1		18.81		0.0	20.0		21.92		0.0	23.5
			1	107		**18.83**		0.0	20.0		**21.94**		0.0	23.5
			1	214		18.41		0.0	20.0		21.47		0.0	23.5
			108	0		18.80		0.0	20.0		21.17		0.0	23.5
			108	54		**18.82**		0.0	20.0		**21.82**		0.0	23.5
			108	108		18.32		0.0	20.0		21.35		0.0	23.5
			216	0		18.61		0.0	20.0		21.66		0.0	23.5
		16QAM	1	1		18.72		0.0	20.0		21.58		0.0	23.5
			1	107		18.56		0.0	20.0		21.73		0.0	23.5
			1	214		18.46		0.0	20.0		21.43		0.0	23.5
		64QAM	1	1		18.82		0.0	20.0		21.48		0.0	23.5
		256QAM	1	1		18.84		0.0	20.0		19.29		2.5	21.0
	CP-OFDM	QPSK	1	1		18.81		0.0	20.0		21.49		0.0	23.5
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		
					1725.00 MHz	1745.00 MHz	1765.00 MHz			1725.00 MHz	1745.00 MHz	1765.00 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1		19.06		0.0	20.0		22.09		0.0	23.5
			1	79		18.81		0.0	20.0		21.84		0.0	23.5
			1	158		18.58		0.0	20.0		21.64		0.0	23.5
			80	0		19.06		0.0	20.0		21.10		0.0	23.5
			80	40		18.80		0.0	20.0		21.89		0.0	23.5
			80	80		18.56		0.0	20.0		21.62		0.0	23.5
			160	0		18.79		0.0	20.0		21.85		0.0	23.5
		QPSK	1	1		19.06		0.0	20.0		22.06		0.0	23.5
			1	79		18.83		0.0	20.0		21.86		0.0	23.5
			1	158		18.55		0.0	20.0		21.56		0.0	23.5
			80	0		19.06		0.0	20.0		21.12		0.0	23.5
			80	40		18.80		0.0	20.0		21.88		0.0	23.5
			80	80		18.55		0.0	20.0		21.65		0.0	23.5
			160	0		18.79		0.0	20.0		21.84		0.0	23.5
		16QAM	1	1		18.99		0.0	20.0		21.10		0.0	23.5
			1	79		18.78		0.0	20.0		21.94		0.0	23.5
			1	158		18.49		0.0	20.0		21.58		0.0	23.5
		64QAM	1	1		19.02		0.0	20.0		21.56		0.0	23.5
		256QAM	1	1		18.99		0.0	20.0		19.51		2.5	21.0
	CP-OFDM	QPSK	1	1		19.01		0.0	20.0		21.58		0.0	23.5
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		
					1722.50 MHz	1745.00 MHz	1767.50 MHz			1722.50 MHz	1745.00 MHz	1767.50 MHz		
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1		19.09		0.0	20.0		22.10		0.0	23.5
			1	66		18.74		0.0	20.0		21.76		0.0	23.5
			1	131		18.56		0.0	20.0		21.58		0.0	23.5
			64	0		19.06		0.0	20.0		21.15		0.0	23.5
			64	34		18.81		0.0	20.0		21.87		0.0	23.5
			64	69		18.58		0.0	20.0		21.63		0.0	23.5
			128	0		18.85		0.0	20.0		21.84		0.0	23.5
		QPSK	1	1		19.10		0.0	20.0		22.10		0.0	23.5
			1	66		18.76		0.0	20.0		21.79		0.0	23.5
			1	131		18.58		0.0	20.0		21.57		0.0	23.5
			64	0		19.08		0.0	20.0		21.11		0.0	23.5
			64	34		18.82		0.0	20.0		21.85		0.0	23.5
			64	69		18.60		0.0	20.0		21.67		0.0	23.5
			128	0		18.84		0.0	20.0		21.85		0.0	23.5
		16QAM	1	1		19.08		0.0	20.0		21.14		0.0	23.5
			1	66		18.72		0.0	20.0		21.86		0.0	23.5
			1	131		18.53		0.0	20.0		21.61		0.0	23.5
		64QAM	1	1		19.11		0.0	20.0		21.57		0.0	23.5
		256QAM	1	1		19.15		0.0	20.0		19.43		2.5	21.0
	CP-OFDM	QPSK	1	1		19.08		0.0	20.0		21.43		0.0	23.5

NR Band n66 (Ant. A) 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
					344000	349000	354000			344000	349000	354000		
					1720.00 MHz	1745.00 MHz	1770.00 MHz			1720.00 MHz	1745.00 MHz	1770.00 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.22	19.11	18.54	0.0	20.0	21.20	22.20	21.55	0.0	23.5
			1	52	19.17	18.87	18.63	0.0	20.0	21.78	21.86	21.64	0.0	23.5
			1	104	19.03	18.58	18.47	0.0	20.0	22.09	21.65	21.51	0.0	23.5
			50	0	19.21	19.05	18.57	0.0	20.0	21.56	21.10	21.65	0.0	23.5
			50	28	19.15	18.82	18.59	0.0	20.0	21.84	21.88	21.65	0.0	23.5
			50	56	19.08	18.62	18.54	0.0	20.0	21.21	21.64	21.58	0.0	23.5
			100	0	19.18	18.84	18.58	0.0	20.0	21.05	21.90	21.62	0.0	23.5
		QPSK	1	1	19.18	19.12	18.54	0.0	20.0	21.03	22.15	21.50	0.0	23.5
			1	52	19.14	18.87	18.61	0.0	20.0	21.66	21.85	21.65	0.0	23.5
			1	104	19.00	18.58	18.48	0.0	20.0	22.11	21.66	21.58	0.0	23.5
			50	0	19.19	19.04	18.57	0.0	20.0	21.50	21.08	21.62	0.0	23.5
			50	28	19.15	18.81	18.59	0.0	20.0	21.83	21.88	21.61	0.0	23.5
			50	56	19.06	18.62	18.54	0.0	20.0	21.15	21.66	21.56	0.0	23.5
			100	0	19.17	18.84	18.58	0.0	20.0	21.98	21.88	21.65	0.0	23.5
		16QAM	1	1	19.11	19.14	18.46	0.0	20.0	21.31	21.22	21.60	0.0	23.5
			1	52	19.09	18.98	18.62	0.0	20.0	21.06	21.00	21.70	0.0	23.5
			1	104	18.97	18.69	18.46	0.0	20.0	21.18	21.66	21.55	0.0	23.5
		64QAM	1	1	19.18	18.99	18.54	0.0	20.0	21.60	21.64	21.62	0.0	23.5
		256QAM	1	1	19.22	19.13	18.42	0.0	20.0	19.51	19.50	19.46	2.5	21.0
	CP-OFDM	QPSK	1	1	19.17	19.08	18.51	0.0	20.0	21.51	21.51	21.52	0.0	23.5
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		
					1717.50 MHz	1745.00 MHz	1772.50 MHz			1717.50 MHz	1745.00 MHz	1772.50 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.25	19.05	18.53	0.0	20.0	21.16	22.11	21.56	0.0	23.5
			1	39	19.15	18.69	18.44	0.0	20.0	21.82	21.72	21.48	0.0	23.5
			1	77	19.11	18.55	18.42	0.0	20.0	22.17	21.59	21.49	0.0	23.5
			36	0	19.24	18.98	18.51	0.0	20.0	21.62	21.08	21.60	0.0	23.5
			36	21	19.22	18.79	18.51	0.0	20.0	21.92	21.81	21.62	0.0	23.5
			36	43	19.16	18.63	18.45	0.0	20.0	21.25	21.71	21.50	0.0	23.5
			75	0	19.23	18.81	18.51	0.0	20.0	21.00	21.94	21.66	0.0	23.5
		QPSK	1	1	19.23	19.04	18.48	0.0	20.0	21.11	22.06	21.58	0.0	23.5
			1	39	19.12	18.68	18.43	0.0	20.0	21.80	21.81	21.54	0.0	23.5
			1	77	19.11	18.54	18.41	0.0	20.0	22.19	21.62	21.46	0.0	23.5
			36	0	19.24	18.98	18.51	0.0	20.0	21.65	21.09	21.56	0.0	23.5
			36	21	19.22	18.79	18.51	0.0	20.0	21.91	21.91	21.57	0.0	23.5
			36	43	19.16	18.62	18.46	0.0	20.0	21.24	21.76	21.55	0.0	23.5
			75	0	19.22	18.80	18.51	0.0	20.0	21.88	21.91	21.59	0.0	23.5
		16QAM	1	1	19.22	19.08	18.54	0.0	20.0	21.30	21.82	21.57	0.0	23.5
			1	39	19.11	18.72	18.51	0.0	20.0	21.03	21.73	21.52	0.0	23.5
			1	77	19.09	18.52	18.45	0.0	20.0	21.18	21.65	21.45	0.0	23.5
		64QAM	1	1	19.23	19.06	18.56	0.0	20.0	21.65	21.64	21.66	0.0	23.5
		256QAM	1	1	19.12	19.04	18.49	0.0	20.0	19.51	19.54	19.52	2.5	21.0
	CP-OFDM	QPSK	1	1	19.15	19.03	18.53	0.0	20.0	21.56	21.56	21.55	0.0	23.5
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		
					1715.00 MHz	1745.00 MHz	1775.00 MHz			1715.00 MHz	1745.00 MHz	1775.00 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.27	19.04	18.61	0.0	20.0	21.84	22.10	21.60	0.0	23.5
			1	25	19.27	18.83	18.57	0.0	20.0	21.93	21.87	21.52	0.0	23.5
			1	50	19.23	18.68	18.49	0.0	20.0	22.20	21.62	21.53	0.0	23.5
			25	0	19.26	18.95	18.58	0.0	20.0	21.03	21.83	21.45	0.0	23.5
			25	13	19.25	18.82	18.55	0.0	20.0	22.04	21.89	21.51	0.0	23.5
			25	27	19.25	18.72	18.49	0.0	20.0	21.34	21.48	21.43	0.0	23.5
			50	0	19.27	18.83	18.55	0.0	20.0	21.19	21.51	21.60	0.0	23.5
		QPSK	1	1	19.29	19.07	18.59	0.0	20.0	21.72	22.09	21.66	0.0	23.5
			1	25	19.27	18.85	18.54	0.0	20.0	21.86	21.79	21.61	0.0	23.5
			1	50	19.22	18.67	18.49	0.0	20.0	22.22	21.67	21.55	0.0	23.5
			25	0	19.25	18.95	18.58	0.0	20.0	21.01	21.03	21.68	0.0	23.5
			25	13	19.26	18.81	18.55	0.0	20.0	22.04	21.90	21.63	0.0	23.5
			25	27	19.26	18.71	18.48	0.0	20.0	21.31	21.78	21.57	0.0	23.5
			50	0	19.27	18.83	18.55	0.0	20.0	21.13	21.68	21.61	0.0	23.5
		16QAM	1	1	19.24	19.01	18.62	0.0	20.0	21.68	21.14	21.66	0.0	23.5
			1	25	19.27	18.76	18.52	0.0	20.0	21.13	21.58	21.59	0.0	23.5
			1	50	19.17	18.67	18.48	0.0	20.0	21.27	21.72	21.57	0.0	23.5
		64QAM	1	1	19.29	19.11	18.51	0.0	20.0	21.70	21.70	21.68	0.0	23.5
		256QAM	1	1	19.13	18.95	18.48	0.0	20.0	19.55	19.54	19.55	2.5	21.0
	CP-OFDM	QPSK	1	1	19.31	19.01	18.61	0.0	20.0	21.58	21.63	21.57	0.0	23.5

NR Band n66 (Ant. A) 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		
					1712.50 MHz	1745.00 MHz	1777.50 MHz			1712.50 MHz	1745.00 MHz	1777.50 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.25	18.93	18.53	0.0	20.0	21.98	21.97	21.54	0.0	23.5
			1	12	19.16	18.71	18.38	0.0	20.0	22.00	21.79	21.48	0.0	23.5
			1	23	19.23	18.72	18.48	0.0	20.0	22.00	21.74	21.54	0.0	23.5
			12	0	19.18	18.84	18.47	0.0	20.0	21.11	21.84	21.54	0.0	23.5
			12	6	19.18	18.78	18.46	0.0	20.0	22.10	21.82	21.50	0.0	23.5
			12	13	19.18	18.74	18.46	0.0	20.0	21.18	21.58	21.57	0.0	23.5
			25	0	19.19	18.78	18.45	0.0	20.0	21.16	21.63	21.61	0.0	23.5
		QPSK	1	1	19.23	18.91	18.50	0.0	20.0	21.84	22.01	21.54	0.0	23.5
			1	12	19.14	18.71	18.36	0.0	20.0	21.86	21.79	21.48	0.0	23.5
			1	23	19.23	18.71	18.46	0.0	20.0	21.93	21.77	21.54	0.0	23.5
			12	0	19.17	18.82	18.48	0.0	20.0	21.13	21.63	21.56	0.0	23.5
			12	6	19.16	18.76	18.45	0.0	20.0	22.07	21.88	21.54	0.0	23.5
			12	13	19.17	18.72	18.44	0.0	20.0	21.14	21.81	21.48	0.0	23.5
			25	0	19.18	18.79	18.45	0.0	20.0	21.15	21.59	21.50	0.0	23.5
		16QAM	1	1	19.14	18.87	18.52	0.0	20.0	21.08	21.53	21.58	0.0	23.5
			1	12	19.01	18.66	18.39	0.0	20.0	21.15	21.54	21.48	0.0	23.5
			1	23	19.19	18.67	18.49	0.0	20.0	21.24	21.55	21.60	0.0	23.5
		64QAM	1	1	19.17	18.95	18.67	0.0	20.0	21.82	21.82	21.86	0.0	23.5
		256QAM	1	1	19.01	18.81	18.45	0.0	20.0	19.63	19.67	19.64	2.5	21.0
	CP-OFDM	QPSK	1	1	19.19	18.87	18.51	0.0	20.0	21.64	21.66	21.66	0.0	23.5

NR Band n66 (Ant. B) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)				
					RSI = 0, 3, 4				
					Measured Pwr (dBm)			MPR	Tune-up Limit
					346000	349000	352000		
					1730.00 MHz	1745.00 MHz	1760.00 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1		19.18		0.0	21.0
			1	107		18.86		0.0	21.0
			1	214		18.75		0.0	21.0
			108	0		19.17		0.0	21.0
			108	54		18.76		0.0	21.0
			108	108		18.73		0.0	21.0
			216	0		18.75		0.0	21.0
		QPSK	1	1		19.12		0.0	21.0
			1	107		**19.14**		0.0	21.0
			1	214		18.72		0.0	21.0
			108	0		18.84		0.0	21.0
			108	54		**19.12**		0.0	21.0
			108	108		18.72		0.0	21.0
			216	0		18.73		0.0	21.0
		16QAM	1	1		19.18		0.0	21.0
			1	107		18.79		0.0	21.0
			1	214		18.73		0.0	21.0
		64QAM	1	1		19.17		0.0	21.0
		256QAM	1	1		19.11		0.5	20.5
	CP-OFDM	QPSK	1	1		19.15		0.0	21.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					345000	349000	353000		
					1725.00 MHz	1745.00 MHz	1765.00 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1		18.89		0.0	21.0
			1	79		18.56		0.0	21.0
			1	158		18.52		0.0	21.0
			80	0		18.80		0.0	21.0
			80	40		18.54		0.0	21.0
			80	80		18.53		0.0	21.0
			160	0		18.55		0.0	21.0
		QPSK	1	1		18.89		0.0	21.0
			1	79		18.57		0.0	21.0
			1	158		18.51		0.0	21.0
			80	0		18.80		0.0	21.0
			80	40		18.56		0.0	21.0
			80	80		18.53		0.0	21.0
			160	0		18.55		0.0	21.0
		16QAM	1	1		18.82		0.0	21.0
			1	79		18.55		0.0	21.0
			1	158		18.55		0.0	21.0
		64QAM	1	1		18.93		0.0	21.0
		256QAM	1	1		18.92		0.5	20.5
	CP-OFDM	QPSK	1	1		18.93		0.0	21.0

NR Band n66 (Ant. B) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					344500	349000	353500		
					1722.50 MHz	1745.00 MHz	1767.50 MHz		
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1		18.97		0.0	21.0
			1	66		18.52		0.0	21.0
			1	131		18.57		0.0	21.0
			64	0		18.83		0.0	21.0
			64	34		18.59		0.0	21.0
			64	69		18.58		0.0	21.0
			128	0		18.61		0.0	21.0
		QPSK	1	1		18.96		0.0	21.0
			1	66		18.52		0.0	21.0
			1	131		18.56		0.0	21.0
			64	0		18.82		0.0	21.0
			64	34		18.60		0.0	21.0
			64	69		18.57		0.0	21.0
			128	0		18.60		0.0	21.0
		16QAM	1	1		18.93		0.0	21.0
			1	66		18.57		0.0	21.0
			1	131		18.57		0.0	21.0
		64QAM	1	1		19.04		0.0	21.0
		256QAM	1	1		18.96		0.5	20.5
	CP-OFDM	QPSK	1	1		18.95		0.0	21.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					344000	349000	354000		
					1720.00 MHz	1745.00 MHz	1770.00 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.75	18.92	18.56	0.0	21.0
			1	52	18.80	18.58	18.53	0.0	21.0
			1	104	19.00	18.54	18.59	0.0	21.0
			50	0	18.72	18.80	18.54	0.0	21.0
			50	28	18.77	18.61	18.56	0.0	21.0
			50	56	18.89	18.51	18.54	0.0	21.0
			100	0	18.77	18.63	18.55	0.0	21.0
		QPSK	1	1	18.73	18.94	18.54	0.0	21.0
			1	52	18.81	18.56	18.53	0.0	21.0
			1	104	19.01	18.57	18.58	0.0	21.0
			50	0	18.72	18.80	18.54	0.0	21.0
			50	28	18.78	18.60	18.56	0.0	21.0
			50	56	18.90	18.51	18.53	0.0	21.0
			100	0	18.76	18.62	18.55	0.0	21.0
		16QAM	1	1	18.68	19.01	18.59	0.0	21.0
			1	52	18.77	18.63	18.53	0.0	21.0
			1	104	18.87	18.51	18.50	0.0	21.0
		64QAM	1	1	18.74	19.02	18.51	0.0	21.0
		256QAM	1	1	18.81	18.96	18.54	0.5	20.5
	CP-OFDM	QPSK	1	1	18.71	18.92	18.53	0.0	21.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					343500	349000	354500		
					1717.50 MHz	1745.00 MHz	1772.50 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.74	18.88	18.51	0.0	21.0
			1	39	18.64	18.56	18.53	0.0	21.0
			1	77	18.84	18.50	18.53	0.0	21.0
			36	0	18.71	18.74	18.54	0.0	21.0
			36	21	18.70	18.59	18.59	0.0	21.0
			36	43	18.79	18.51	18.56	0.0	21.0
			75	0	18.71	18.58	18.59	0.0	21.0
		QPSK	1	1	18.71	18.84	18.56	0.0	21.0
			1	39	18.62	18.52	18.58	0.0	21.0
			1	77	18.82	18.50	18.53	0.0	21.0
			36	0	18.70	18.73	18.54	0.0	21.0
			36	21	18.71	18.57	18.58	0.0	21.0
			36	43	18.80	18.50	18.57	0.0	21.0
			75	0	18.70	18.59	18.57	0.0	21.0
		16QAM	1	1	18.76	18.85	18.59	0.0	21.0
			1	39	18.65	18.50	18.55	0.0	21.0
			1	77	18.84	18.57	18.56	0.0	21.0
		64QAM	1	1	18.69	18.79	18.57	0.0	21.0
		256QAM	1	1	18.70	18.74	18.57	0.5	20.5
	CP-OFDM	QPSK	1	1	18.74	18.80	18.54	0.0	21.0

NR Band n66 (Ant. B) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					343000	349000	355000		
					1715.00 MHz	1745.00 MHz	1775.00 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.80	18.80	18.50	0.0	21.0
			1	25	18.81	18.60	18.57	0.0	21.0
			1	50	18.78	18.50	18.59	0.0	21.0
			25	0	18.75	18.69	18.58	0.0	21.0
			25	13	18.75	18.59	18.54	0.0	21.0
			25	27	18.76	18.54	18.52	0.0	21.0
			50	0	18.75	18.59	18.56	0.0	21.0
		QPSK	1	1	18.78	18.76	18.50	0.0	21.0
			1	25	18.79	18.56	18.57	0.0	21.0
			1	50	18.79	18.58	18.59	0.0	21.0
			25	0	18.74	18.68	18.57	0.0	21.0
			25	13	18.75	18.60	18.54	0.0	21.0
			25	27	18.76	18.54	18.51	0.0	21.0
			50	0	18.75	18.58	18.55	0.0	21.0
		16QAM	1	1	18.69	18.76	18.58	0.0	21.0
			1	25	18.70	18.59	18.54	0.0	21.0
			1	50	18.70	18.50	18.51	0.0	21.0
		64QAM	1	1	18.75	18.72	18.59	0.0	21.0
		256QAM	1	1	18.80	18.65	18.58	0.5	20.5
	CP-OFDM	QPSK	1	1	18.77	18.82	18.51	0.0	21.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					342500	349000	355500		
					1712.50 MHz	1745.00 MHz	1777.50 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.72	18.70	18.53	0.0	21.0
			1	12	18.60	18.54	18.53	0.0	21.0
			1	23	18.69	18.57	18.56	0.0	21.0
			12	0	18.68	18.61	18.50	0.0	21.0
			12	6	18.66	18.58	18.58	0.0	21.0
			12	13	18.67	18.56	18.56	0.0	21.0
			25	0	18.68	18.59	18.59	0.0	21.0
		QPSK	1	1	18.69	18.69	18.52	0.0	21.0
			1	12	18.57	18.53	18.59	0.0	21.0
			1	23	18.68	18.56	18.55	0.0	21.0
			12	0	18.67	18.61	18.53	0.0	21.0
			12	6	18.66	18.56	18.58	0.0	21.0
			12	13	18.67	18.56	18.56	0.0	21.0
			25	0	18.67	18.57	18.57	0.0	21.0
		16QAM	1	1	18.69	18.52	18.55	0.0	21.0
			1	12	18.57	18.57	18.56	0.0	21.0
			1	23	18.69	18.52	18.52	0.0	21.0
		64QAM	1	1	18.83	18.64	18.55	0.0	21.0
		256QAM	1	1	18.57	18.58	18.56	0.5	20.5
	CP-OFDM	QPSK	1	1	18.70	18.67	18.53	0.0	21.0

NR Band n70 (Ant. A) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm) RSI = 0, 3 Measured Pwr (dBm)			MPR	Tune-up Limit	Maximum Allowed Average Power (dBm) RSI = 4 Measured Pwr (dBm)			MPR	Tune-up Limit
						340500					340500			
						1702.50 MHz					1702.50 MHz			
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1		19.95		0.0	21.0		23.96		0.0	25.5
			1	39		19.94		0.0	21.0		23.94		0.0	25.5
			1	77		19.95		0.0	21.0		23.98		0.0	25.5
			36	0		20.00		0.0	21.0		23.09		0.5	25.0
			36	21		19.96		0.0	21.0		24.05		0.0	25.5
			36	43		19.91		0.0	21.0		23.02		0.5	25.0
			75	0		19.96		0.0	21.0		23.06		0.5	25.0
		QPSK	1	1		19.91		0.0	21.0		23.97		0.0	25.5
			1	39		19.92		0.0	21.0		23.94		0.0	25.5
			1	77		**19.93**		0.0	21.0		**23.98**		0.0	25.5
			36	0		19.92		0.0	21.0		23.11		1.0	24.5
			36	21		**19.97**		0.0	21.0		**24.07**		0.0	25.5
			36	43		19.90		0.0	21.0		23.02		1.0	24.5
			75	0		19.96		0.0	21.0		23.08		1.0	24.5
		16QAM	1	1		19.85		0.0	21.0		23.01		1.0	24.5
			1	39		19.83		0.0	21.0		22.97		1.0	24.5
			1	77		19.87		0.0	21.0		22.98		1.0	24.5
		64QAM	1	1		19.81		0.0	21.0		21.58		2.5	23.0
		256QAM	1	1		19.44		1.0	20.0		19.47		4.5	21.0
	CP-OFDM	QPSK	1	1		19.90		0.0	21.0		22.51		1.5	24.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm) 340000 1700.00 MHz	340500 1702.50 MHz	341000 1705.00 MHz	MPR	Tune-up Limit	Measured Pwr (dBm) 340000 1700.00 MHz	340500 1702.50 MHz	341000 1705.00 MHz	MPR	Tune-up Limit
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1		20.18		0.0	21.0		24.19		0.0	25.5
			1	25		20.11		0.0	21.0		24.13		0.0	25.5
			1	50		20.16		0.0	21.0		24.19		0.0	25.5
			25	0		20.11		0.0	21.0		23.19		0.5	25.0
			25	13		20.07		0.0	21.0		24.17		0.0	25.5
			25	27		20.10		0.0	21.0		23.19		0.5	25.0
			50	0		20.08		0.0	21.0		23.17		0.5	25.0
		QPSK	1	1		20.16		0.0	21.0		24.21		0.0	25.5
			1	25		20.10		0.0	21.0		24.17		0.0	25.5
			1	50		20.16		0.0	21.0		24.22		0.0	25.5
			25	0		20.10		0.0	21.0		23.21		1.0	24.5
			25	13		20.08		0.0	21.0		24.17		0.0	25.5
			25	27		20.10		0.0	21.0		23.20		1.0	24.5
			50	0		20.09		0.0	21.0		23.19		1.0	24.5
		16QAM	1	1		20.12		0.0	21.0		23.29		1.0	24.5
			1	25		20.07		0.0	21.0		23.27		1.0	24.5
			1	50		20.16		0.0	21.0		23.34		1.0	24.5
		64QAM	1	1		20.08		0.0	21.0		21.82		2.5	23.0
		256QAM	1	1		19.65		0.0	21.0		19.78		4.5	21.0
	CP-OFDM	QPSK	1	1		20.15		0.0	21.0		22.76		1.5	24.0

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm) 339500 1697.50 MHz	340500 1702.50 MHz	341500 1707.50 MHz	MPR	Tune-up Limit	Measured Pwr (dBm) 339500 1697.50 MHz	340500 1702.50 MHz	341500 1707.50 MHz	MPR	Tune-up Limit
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1		20.09		0.0	21.0		24.20		0.0	25.5
			1	12		20.01		0.0	21.0		24.14		0.0	25.5
			1	23		20.09		0.0	21.0		24.22		0.0	25.5
			12	0		20.07		0.0	21.0		23.20		0.5	25.0
			12	6		20.07		0.0	21.0		24.17		0.0	25.5
			12	13		20.09		0.0	21.0		23.20		0.5	25.0
			25	0		20.09		0.0	21.0		23.20		0.5	25.0
		QPSK	1	1		20.10		0.0	21.0		24.22		0.0	25.5
			1	12		20.00		0.0	21.0		24.13		0.0	25.5
			1	23		20.10		0.0	21.0		24.21		0.0	25.5
			12	0		20.08		0.0	21.0		23.20		1.0	24.5
			12	6		20.07		0.0	21.0		24.18		0.0	25.5
			12	13		20.08		0.0	21.0		23.20		1.0	24.5
			25	0		20.07		0.0	21.0		23.21		1.0	24.5
		16QAM	1	1		20.12		0.0	21.0		23.20		1.0	24.5
			1	12		19.97		0.0	21.0		23.11		1.0	24.5
			1	23		20.06		0.0	21.0		23.22		1.0	24.5
		64QAM	1	1		20.16		0.0	21.0		21.67		2.5	23.0
		256QAM	1	1		19.84		0.0	21.0		19.67		4.5	21.0
	CP-OFDM	QPSK	1	1		20.11		0.0	21.0		22.71		1.5	24.0

NR Band n71 (Ant. A) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)			MPR	Tune-up Limit
					RSI = 0, 3, 4				
					Measured Pwr (dBm)				
					134600	136100	137600		
					673.00 MHz	680.50 MHz	688.00 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1		24.35		0.0	25.5
			1	52		24.55		0.0	25.5
			1	104		24.26		0.0	25.5
			50	0		23.46		0.5	25.0
			50	28		24.50		0.0	25.5
			50	56		23.43		0.5	25.0
			100	0		23.51		0.5	25.0
		QPSK	1	1		24.33		0.0	25.5
			1	52		**24.57**		0.0	25.5
			1	104		24.25		0.0	25.5
			50	0		23.48		1.0	24.5
			50	28		**24.50**		0.0	25.5
			50	56		23.44		1.0	24.5
			100	0		23.52		1.0	24.5
		16QAM	1	1		23.43		1.0	24.5
			1	52		23.67		1.0	24.5
			1	104		23.34		1.0	24.5
		64QAM	1	1		21.90		2.5	23.0
		256QAM	1	1		19.92		4.5	21.0
	CP-OFDM	QPSK	1	1		22.92		1.5	24.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					134100	136100	138100		
					670.50 MHz	680.50 MHz	690.50 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1		23.30		0.0	25.5
			1	39		23.45		0.0	25.5
			1	77		23.60		0.0	25.5
			36	0		22.52		0.5	25.0
			36	21		23.51		0.0	25.5
			36	43		22.57		0.5	25.0
			75	0		22.51		0.5	25.0
		QPSK	1	1		23.33		0.0	25.5
			1	39		23.44		0.0	25.5
			1	77		23.62		0.0	25.5
			36	0		22.43		1.0	24.5
			36	21		23.50		0.0	25.5
			36	43		22.58		1.0	24.5
			75	0		22.53		1.0	24.5
		16QAM	1	1		22.39		1.0	24.5
			1	39		22.47		1.0	24.5
			1	77		22.64		1.0	24.5
		64QAM	1	1		20.92		2.5	23.0
		256QAM	1	1		18.86		4.5	21.0
	CP-OFDM	QPSK	1	1		21.83		1.5	24.0

NR Band n71 (Ant. A) Measured Results (Continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					133600	136100	138600		
					668.00 MHz	680.50 MHz	693.00 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.16	23.38	23.62	0.0	25.5
			1	25	23.28	23.58	23.72	0.0	25.5
			1	50	23.27	23.55	23.60	0.0	25.5
			25	0	22.52	22.55	22.65	0.5	25.0
			25	13	23.26	23.50	23.64	0.0	25.5
			25	27	22.57	22.58	22.65	0.5	25.0
			50	0	22.55	22.51	22.68	0.5	25.0
		QPSK	1	1	23.21	23.43	23.62	0.0	25.5
			1	25	23.35	23.64	23.73	0.0	25.5
			1	50	23.32	23.58	23.60	0.0	25.5
			25	0	22.22	22.46	22.64	1.0	24.5
			25	13	23.24	23.51	23.67	0.0	25.5
			25	27	22.28	22.57	22.65	1.0	24.5
			50	0	22.25	22.52	22.67	1.0	24.5
		16QAM	1	1	22.22	22.40	22.72	1.0	24.5
			1	25	22.36	22.68	22.93	1.0	24.5
			1	50	22.35	22.58	22.68	1.0	24.5
		64QAM	1	1	20.78	20.99	21.14	2.5	23.0
		256QAM	1	1	18.71	18.88	19.11	4.5	21.0
	CP-OFDM	QPSK	1	1	21.72	21.93	22.16	1.5	24.0
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Measured Pwr (dBm)			MPR	Tune-up Limit
					133100	136100	139100		
					665.50 MHz	680.50 MHz	695.50 MHz		
5 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.22	23.43	23.68	0.0	25.5
			1	12	23.16	23.42	23.58	0.0	25.5
			1	23	23.26	23.54	23.65	0.0	25.5
			12	0	22.53	22.59	22.70	0.5	25.0
			12	6	23.23	23.51	23.68	0.0	25.5
			12	13	22.54	22.55	22.66	0.5	25.0
			25	0	22.54	22.52	22.68	0.5	25.0
		QPSK	1	1	23.24	23.44	23.67	0.0	25.5
			1	12	23.16	23.41	23.57	0.0	25.5
			1	23	23.28	23.55	23.65	0.0	25.5
			12	0	22.23	22.48	22.70	1.0	24.5
			12	6	23.23	23.50	23.67	0.0	25.5
			12	13	22.26	22.54	22.67	1.0	24.5
			25	0	22.25	22.52	22.70	1.0	24.5
		16QAM	1	1	22.27	22.54	22.73	1.0	24.5
			1	12	22.19	22.54	22.60	1.0	24.5
			1	23	22.30	22.67	22.74	1.0	24.5
		64QAM	1	1	20.76	21.15	21.23	2.5	23.0
		256QAM	1	1	18.68	18.98	19.20	4.5	21.0
	CP-OFDM	QPSK	1	1	21.80	21.95	22.24	1.5	24.0

NR Band n77 (Voice/Data/SRS0) (Ant. E) Measured Results

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Maximum Allowed Average Power (dBm)												
					RSI = 0, 3, 4												
					Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)					MPR	Tune-up Limit
						633334				650000				662000		
						3500.01 MHz				3750.00 MHz				3930.00 MHz		
100 MHz	DFT-s-OFDM	π/2 BPSK	1	1		13.85		0.0	15.0	14.17				13.70	0.0	15.0
			1	136		14.19		0.0	15.0	13.70				13.93	0.0	15.0
			1	271		13.32		0.0	15.0	13.47				14.00	0.0	15.0
			135	0		13.97		0.0	15.0	13.92				13.92	0.0	15.0
			135	69		14.17		0.0	15.0	13.68				13.90	0.0	15.0
			135	138		14.03		0.0	15.0	13.42				14.06	0.0	15.0
			270	0		14.16		0.0	15.0	13.66				13.89	0.0	15.0
		QPSK	1	1		13.82		0.0	15.0	13.89				13.52	0.0	15.0
			1	136		14.15		0.0	15.0	13.66				**13.90**	0.0	15.0
			1	271		13.34		0.0	15.0	13.48				13.75	0.0	15.0
			135	0		13.96		0.0	15.0	13.93				13.90	0.0	15.0
			135	69		14.13		0.0	15.0	13.70				13.88	0.0	15.0
			135	138		14.14		0.0	15.0	13.42				**13.97**	0.0	15.0
			270	0		14.17		0.0	15.0	13.68				13.88	0.0	15.0
		16QAM	1	1		13.84		0.0	15.0	13.68				14.19	0.0	15.0
			1	136		14.25		0.0	15.0	13.91				13.70	0.0	15.0
			1	271		13.33		0.0	15.0	14.01				13.51	0.0	15.0
		64QAM	1	1		13.79		0.0	15.0	13.68				14.12	0.0	15.0
		256QAM	1	1		13.75		0.0	15.0	13.69				14.13	0.0	15.0
	CP-OFDM	QPSK	1	1		13.80		0.0	15.0	13.67				14.15	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
						633334				649668			656000		662332		
						3500.01 MHz				3745.02 MHz			3840.00 MHz		3934.98 MHz		
90 MHz	DFT-s-OFDM	π/2 BPSK	1	1		13.65		0.0	15.0	13.91			13.23		13.52	0.0	15.0
			1	122		14.20		0.0	15.0	13.77			13.71		13.86	0.0	15.0
			1	243		13.55		0.0	15.0	13.25			13.52		13.74	0.0	15.0
			120	0		13.96		0.0	15.0	13.84			13.53		13.87	0.0	15.0
			120	62		14.05		0.0	15.0	13.70			13.71		13.85	0.0	15.0
			120	125		13.99		0.0	15.0	13.41			13.60		13.94	0.0	15.0
			243	0		14.06		0.0	15.0	13.70			13.69		13.81	0.0	15.0
		QPSK	1	1		13.58		0.0	15.0	13.94			13.25		13.51	0.0	15.0
			1	122		14.17		0.0	15.0	13.73			13.72		13.86	0.0	15.0
			1	243		13.52		0.0	15.0	13.28			13.49		13.73	0.0	15.0
			120	0		13.91		0.0	15.0	13.82			13.54		13.87	0.0	15.0
			120	62		14.16		0.0	15.0	13.73			13.73		13.85	0.0	15.0
			120	125		14.06		0.0	15.0	13.40			13.60		13.95	0.0	15.0
			243	0		14.10		0.0	15.0	13.69			13.66		13.82	0.0	15.0
		16QAM	1	1		13.65		0.0	15.0	13.96			13.25		13.59	0.0	15.0
			1	122		14.19		0.0	15.0	13.77			13.73		13.86	0.0	15.0
			1	243		13.54		0.0	15.0	13.29			13.53		13.76	0.0	15.0
		64QAM	1	1		13.58		0.0	15.0	13.54			13.16		13.86	0.0	15.0
		256QAM	1	1		13.58		0.0	15.0	13.51			13.19		13.89	0.0	15.0
	CP-OFDM	QPSK	1	1		13.61		0.0	15.0	13.55			13.20		13.85	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
						633334				649334			656000		662666		
						3500.01 MHz				3740.01 MHz			3840.00 MHz		3939.99 MHz		
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1		13.70		0.0	15.0	13.95			13.25		13.71	0.0	15.0
			1	108		14.25		0.0	15.0	13.89			13.74		13.91	0.0	15.0
			1	215		13.76		0.0	15.0	13.31			13.50		13.76	0.0	15.0
			108	0		14.02		0.0	15.0	13.91			13.54		13.85	0.0	15.0
			108	54		14.23		0.0	15.0	13.88			13.72		13.91	0.0	15.0
			108	109		14.16		0.0	15.0	13.57			13.65		13.97	0.0	15.0
			216	0		14.18		0.0	15.0	13.80			13.30		13.84	0.0	15.0
		QPSK	1	1		13.69		0.0	15.0	13.96			13.20		13.69	0.0	15.0
			1	108		14.19		0.0	15.0	13.86			13.72		13.88	0.0	15.0
			1	215		13.74		0.0	15.0	13.31			13.49		13.78	0.0	15.0
			108	0		13.98		0.0	15.0	13.91			13.58		13.85	0.0	15.0
			108	54		14.16		0.0	15.0	13.86			13.73		13.89	0.0	15.0
			108	109		14.15		0.0	15.0	13.56			13.63		13.99	0.0	15.0
			216	0		14.14		0.0	15.0	13.81			13.68		13.87	0.0	15.0
		16QAM	1	1		13.69		0.0	15.0	13.97			13.24		13.73	0.0	15.0
			1	108		14.21		0.0	15.0	13.83			13.72		13.90	0.0	15.0
			1	215		13.76		0.0	15.0	13.32			13.51		13.79	0.0	15.0
		64QAM	1	1		13.59		0.0	15.0	13.64			13.17		13.92	0.0	15.0
		256QAM	1	1		13.64		0.0	15.0	13.65			13.19		13.91	0.0	15.0
	CP-OFDM	QPSK	1	1		13.66		0.0	15.0	13.67			13.20		13.94	0.0	15.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

NR Band n77 (Voice/Data/SRS0) (Ant. E) 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
						633334				649000	653666			658334	663000		
						3500.01 MHz				3735.00 MHz	3804.99 MHz			3875.01 MHz	3945.00 MHz		
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1		13.79		0.0	15.0	13.97	13.36			13.61	13.81	0.0	15.0
			1	94		14.27		0.0	15.0	13.88	13.49			13.67	13.95	0.0	15.0
			1	187		13.94		0.0	15.0	13.41	13.65			13.86	13.76	0.0	15.0
			90	0		14.03		0.0	15.0	13.95	13.36			13.66	13.80	0.0	15.0
			90	49		14.23		0.0	15.0	13.89	13.49			13.65	13.90	0.0	15.0
			90	99		14.17		0.0	15.0	13.68	13.65			13.71	13.95	0.0	15.0
			180	0		14.18		0.0	15.0	13.86	13.42			13.60	13.89	0.0	15.0
		QPSK	1	1		13.79		0.0	15.0	13.98	13.38			13.59	13.82	0.0	15.0
			1	94		14.22		0.0	15.0	13.88	13.50			13.64	13.95	0.0	15.0
			1	187		13.91		0.0	15.0	13.43	13.65			13.84	13.80	0.0	15.0
			90	0		14.06		0.0	15.0	13.94	13.36			13.66	13.81	0.0	15.0
			90	49		14.23		0.0	15.0	13.88	13.46			13.63	13.95	0.0	15.0
			90	99		14.20		0.0	15.0	13.68	13.65			13.75	13.98	0.0	15.0
			180	0		14.19		0.0	15.0	13.82	13.44			13.61	13.89	0.0	15.0
		16QAM	1	1		13.82		0.0	15.0	13.83	13.30			13.65	13.99	0.0	15.0
			1	94		14.23		0.0	15.0	13.93	13.60			13.65	13.86	0.0	15.0
			1	187		13.93		0.0	15.0	13.79	13.58			13.85	13.42	0.0	15.0
		64QAM	1	1		13.72		0.0	15.0	13.74	13.31			13.59	13.95	0.0	15.0
		256QAM	1	1		13.77		0.0	15.0	13.78	13.29			13.59	13.96	0.0	15.0
	CP-OFDM	QPSK	1	1		13.75		0.0	15.0	13.75	13.35			13.57	13.98	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
						633334				648668	653556			658444	663332		
						3500.01 MHz				3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz		
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1		13.90		0.0	15.0	13.98	13.36			13.57	13.79	0.0	15.0
			1	80		14.22		0.0	15.0	13.88	13.44			13.57	13.98	0.0	15.0
			1	160		14.08		0.0	15.0	13.55	13.65			13.79	13.82	0.0	15.0
			81	0		14.47		0.0	15.0	13.97	13.38			13.61	13.86	0.0	15.0
			81	40		14.25		0.0	15.0	13.90	13.47			13.62	14.00	0.0	15.0
			81	81		14.21		0.0	15.0	13.78	13.62			13.68	14.01	0.0	15.0
			162	0		14.22		0.0	15.0	13.88	13.43			13.58	13.98	0.0	15.0
		QPSK	1	1		13.90		0.0	15.0	14.00	13.36			13.61	13.80	0.0	15.0
			1	80		14.19		0.0	15.0	13.89	13.42			13.59	13.97	0.0	15.0
			1	160		14.08		0.0	15.0	13.56	13.63			13.81	13.82	0.0	15.0
			81	0		14.13		0.0	15.0	13.97	13.37			13.62	13.86	0.0	15.0
			81	40		14.24		0.0	15.0	13.93	13.48			13.62	13.99	0.0	15.0
			81	81		14.23		0.0	15.0	13.79	13.62			13.70	14.01	0.0	15.0
			162	0		14.23		0.0	15.0	13.89	13.44			13.60	13.98	0.0	15.0
		16QAM	1	1		13.91		0.0	15.0	13.82	13.40			13.62	14.07	0.0	15.0
			1	80		14.25		0.0	15.0	13.98	13.44			13.62	13.89	0.0	15.0
			1	160		14.09		0.0	15.0	13.82	13.45			13.82	13.55	0.0	15.0
		64QAM	1	1		13.83		0.0	15.0	13.72	13.33			13.57	13.98	0.0	15.0
		256QAM	1	1		13.85		0.0	15.0	13.75	13.34			13.56	13.99	0.0	15.0
	CP-OFDM	QPSK	1	1		13.89		0.0	15.0	13.75	13.31			13.60	14.00	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
					631668		635000			648334	652168		656000	659834	663666		
					3475.02 MHz		3525.00 MHz			3725.01 MHz	3782.52 MHz		3840.00 MHz	3897.51 MHz	3954.99 MHz		
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	13.78		14.21	0.0	15.0	13.80	13.48		13.21	13.57	13.74	0.0	15.0
			1	66	14.07		14.25	0.0	15.0	14.02	13.42		13.52	13.60	13.99	0.0	15.0
			1	131	14.18		13.53	0.0	15.0	13.91	13.42		13.78	13.85	13.82	0.0	15.0
			64	0	13.88		14.24	0.0	15.0	13.89	13.48		13.29	13.54	13.88	0.0	15.0
			64	34	14.06		14.23	0.0	15.0	14.01	13.45		13.50	13.55	14.01	0.0	15.0
			64	69	14.20		13.97	0.0	15.0	14.02	13.43		13.69	13.67	14.01	0.0	15.0
			128	0	14.05		14.19	0.0	15.0	13.98	13.42		13.50	13.58	14.01	0.0	15.0
		QPSK	1	1	13.80		14.21	0.0	15.0	13.83	13.57		13.24	13.61	13.82	0.0	15.0
			1	66	14.05		14.21	0.0	15.0	14.01	13.46		13.54	13.58	14.02	0.0	15.0
			1	131	14.21		13.52	0.0	15.0	13.92	13.47		13.78	13.86	13.85	0.0	15.0
			64	0	13.89		14.26	0.0	15.0	13.88	13.52		13.29	13.56	13.91	0.0	15.0
			64	34	14.06		14.22	0.0	15.0	14.03	13.46		13.52	13.57	14.02	0.0	15.0
			64	69	14.20		13.95	0.0	15.0	14.03	13.42		13.69	13.69	14.01	0.0	15.0
			128	0	14.23		14.23	0.0	15.0	13.98	13.44		13.50	13.57	14.02	0.0	15.0
		16QAM	1	1	13.82		14.20	0.0	15.0	13.81	13.57		13.26	13.60	13.78	0.0	15.0
			1	66	14.08		14.21	0.0	15.0	14.00	13.45		13.53	13.59	14.01	0.0	15.0
			1	131	14.22		13.53	0.0	15.0	13.93	13.48		13.80	13.87	13.85	0.0	15.0
		64QAM	1	1	13.92		14.12	0.0	15.0	13.74	13.48		13.21	13.52	13.73	0.0	15.0
		256QAM	1	1	13.80		14.15	0.0	15.0	13.75	13.49		13.22	13.55	13.74	0.0	15.0
	CP-OFDM	QPSK	1	1	13.79		14.17	0.0	15.0	13.78	13.70		13.22	13.57	13.72	0.0	15.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

NR Band n77 (Voice/Data/SRS0) (Ant. E) 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		635332			648000	651200	654400	657600	660800	664000		
					3470.01 MHz		3529.98 MHz			3720.00 MHz	3768.00 MHz	3816.00 MHz	3864.00 MHz	3912.00 MHz	3960.00 MHz		
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	13.89		14.18	0.0	15.0	14.08	13.33	13.11	13.31	13.37	13.45	0.0	15.0
			1	52	14.01		14.10	0.0	15.0	13.95	13.12	13.15	13.24	13.39	13.62	0.0	15.0
			1	104	14.23		13.50	0.0	15.0	13.81	13.14	13.29	13.25	13.51	13.57	0.0	15.0
			50	0	13.91		14.22	0.0	15.0	14.05	13.27	13.32	13.32	13.29	13.63	0.0	15.0
			50	28	14.03		14.12	0.0	15.0	13.99	13.25	13.25	13.28	13.31	13.70	0.0	15.0
			50	56	14.13		13.86	0.0	15.0	13.89	13.33	13.23	13.25	13.42	13.65	0.0	15.0
			100	0	13.99		14.13	0.0	15.0	13.97	13.31	13.27	13.29	13.37	13.64	0.0	15.0
		QPSK	1	1	13.80		14.18	0.0	15.0	14.10	13.39	13.01	13.34	13.35	13.54	0.0	15.0
			1	52	13.94		14.09	0.0	15.0	13.94	13.23	13.21	13.22	13.17	13.59	0.0	15.0
			1	104	14.20		13.50	0.0	15.0	13.85	13.25	13.35	13.21	13.15	13.55	0.0	15.0
			50	0	13.86		14.23	0.0	15.0	14.06	13.43	13.08	13.33	13.27	13.62	0.0	15.0
			50	28	14.03		14.14	0.0	15.0	14.01	13.41	13.24	13.26	13.24	13.68	0.0	15.0
			50	56	14.11		13.87	0.0	15.0	13.89	13.27	13.31	13.24	13.21	13.64	0.0	15.0
			100	0	13.98		14.11	0.0	15.0	13.98	13.29	13.23	13.37	13.23	13.61	0.0	15.0
		16QAM	1	1	13.85		14.20	0.0	15.0	14.14	13.48	13.02	13.28	13.27	13.45	0.0	15.0
			1	52	13.97		14.12	0.0	15.0	13.98	13.45	13.01	13.25	13.24	13.61	0.0	15.0
			1	104	14.18		13.51	0.0	15.0	13.86	13.43	13.03	13.24	13.25	13.52	0.0	15.0
		64QAM	1	1	13.79		14.12	0.0	15.0	13.75	13.27	12.94	13.26	13.27	13.41	0.0	15.0
		256QAM	1	1	13.81		14.14	0.0	15.0	13.79	13.32	12.90	13.29	13.25	13.39	0.0	15.0
	CP-OFDM	QPSK	1	1	13.84		14.13	0.0	15.0	13.75	13.35	12.96	13.28	13.22	13.42	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
					631000	633334	635666			647668	651000	654334	657666	661000	664332		
					3465.00 MHz	3500.01 MHz	3534.99 MHz			3715.02 MHz	3765.00 MHz	3815.01 MHz	3864.99 MHz	3915.00 MHz	3964.98 MHz		
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	13.82	14.16	14.15	0.0	15.0	13.76	13.28	12.96	13.28	13.45	13.57	0.0	15.0
			1	39	13.98	14.33	14.06	0.0	15.0	13.71	13.09	13.12	13.13	13.43	13.54	0.0	15.0
			1	76	14.07	14.25	13.52	0.0	15.0	13.52	13.11	13.25	13.16	13.44	13.47	0.0	15.0
			36	0	13.86	14.25	14.12	0.0	15.0	13.73	13.26	13.05	13.21	13.48	13.61	0.0	15.0
			36	21	13.95	14.29	14.00	0.0	15.0	13.64	13.22	13.20	13.23	13.49	13.66	0.0	15.0
			36	42	14.01	14.24	13.76	0.0	15.0	13.66	13.32	13.26	13.19	13.45	13.64	0.0	15.0
			75	0	13.92	14.26	14.01	0.0	15.0	13.65	13.28	13.19	13.25	13.51	13.72	0.0	15.0
		QPSK	1	1	13.87	14.19	14.21	0.0	15.0	13.75	13.31	13.01	13.32	13.39	13.65	0.0	15.0
			1	39	13.92	14.25	13.97	0.0	15.0	13.69	13.21	13.11	13.18	13.49	13.63	0.0	15.0
			1	76	14.08	14.22	13.53	0.0	15.0	13.53	13.22	13.23	13.19	13.43	13.51	0.0	15.0
			36	0	13.89	14.24	14.15	0.0	15.0	13.76	13.39	13.03	13.23	13.47	13.64	0.0	15.0
			36	21	13.94	14.27	14.00	0.0	15.0	13.68	13.25	13.19	13.24	13.51	13.67	0.0	15.0
			36	42	14.04	14.26	13.77	0.0	15.0	13.59	13.24	13.24	13.21	13.46	13.65	0.0	15.0
			75	0	13.91	14.26	14.00	0.0	15.0	13.66	13.27	13.17	13.27	13.50	13.66	0.0	15.0
		16QAM	1	1	13.87	14.19	14.20	0.0	15.0	13.76	13.51	12.95	13.24	13.39	13.64	0.0	15.0
			1	39	13.95	14.25	14.01	0.0	15.0	13.68	13.45	13.18	13.22	13.35	13.59	0.0	15.0
			1	76	14.06	14.23	13.53	0.0	15.0	13.52	13.44	13.24	13.16	13.47	13.61	0.0	15.0
		64QAM	1	1	13.79	14.09	14.13	0.0	15.0	13.69	13.25	12.99	13.19	13.33	13.57	0.0	15.0
		256QAM	1	1	13.81	14.11	14.15	0.0	15.0	13.71	13.26	13.02	13.22	13.38	13.59	0.0	15.0
	CP-OFDM	QPSK	1	1	13.80	14.11	14.18	0.0	15.0	13.68	13.23	12.98	13.19	13.43	13.58	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
					630834	633334	635832			647500	650900	654300	657700	661100	664500		
					3462.51 MHz	3500.01 MHz	3537.48 MHz			3712.50 MHz	3763.50 MHz	3814.50 MHz	3865.50 MHz	3916.50 MHz	3967.50 MHz		
25 MHz	DFT-s-OFDM	π/2 BPSK	1	1	13.85	14.21	14.18	0.0	15.0	13.66	12.98	13.02	13.08	13.25	13.27	0.0	15.0
			1	32	13.90	14.28	13.96	0.0	15.0	13.51	13.02	12.95	12.83	13.23	13.24	0.0	15.0
			1	63	14.04	14.23	13.54	0.0	15.0	13.32	12.91	13.05	12.96	13.14	13.27	0.0	15.0
			32	0	13.89	14.26	14.12	0.0	15.0	13.43	12.96	12.75	13.01	13.28	13.41	0.0	15.0
			32	16	13.93	14.25	13.98	0.0	15.0	13.54	13.12	12.90	13.13	13.39	13.36	0.0	15.0
			32	33	13.99	14.26	13.77	0.0	15.0	13.56	13.02	13.16	12.89	13.15	13.54	0.0	15.0
			64	0	13.93	14.27	13.95	0.0	15.0	13.35	13.08	13.09	12.95	13.31	13.62	0.0	15.0
		QPSK	1	1	13.91	14.21	14.18	0.0	15.0	13.55	13.21	13.11	13.02	13.19	13.35	0.0	15.0
			1	32	13.93	14.25	13.96	0.0	15.0	13.39	13.01	13.15	12.98	13.19	13.33	0.0	15.0
			1	63	14.04	14.28	13.54	0.0	15.0	13.33	13.12	13.13	12.99	13.23	13.21	0.0	15.0
			32	0	13.91	14.26	14.11	0.0	15.0	13.46	13.19	12.99	13.13	13.17	13.34	0.0	15.0
			32	16	13.94	14.28	13.98	0.0	15.0	13.38	13.05	13.05	12.94	13.41	13.37	0.0	15.0
			32	33	13.99	14.28	13.76	0.0	15.0	13.29	13.14	13.14	13.01	13.26	13.45	0.0	15.0
			64	0	13.92	14.25	13.95	0.0	15.0	13.36	13.17	13.05	13.07	13.30	13.46	0.0	15.0
		16QAM	1	1	13.90	14.23	14.18	0.0	15.0	13.56	13.41	13.07	12.94	13.09	13.34	0.0	15.0
			1	32	13.90	14.25	13.95	0.0	15.0	13.48	13.15	13.08	13.02	13.15	13.49	0.0	15.0
			1	63	14.06	14.28	13.55	0.0	15.0	13.32	13.14	13.14	12.96	13.17	13.41	0.0	15.0
		64QAM	1	1	13.84	14.17	14.11	0.0	15.0	13.59	13.15	12.89	13.09	13.23	13.27	0.0	15.0
		256QAM	1	1	13.85	14.19	14.10	0.0	15.0	13.51	13.06	12.92	13.12	13.08	13.29	0.0	15.0
	CP-OFDM	QPSK	1	1	13.82	14.22	14.12	0.0	15.0	13.38	13.13	12.93	12.99	13.33	13.38	0.0	15.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

NR Band n77 (Voice/Data/SRS0) (Ant. E) 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			647334	650800	654266	657734	661200	664666		
					3460.02 MHz	3500.01 MHz	3540.00 MHz			3710.01 MHz	3762.00 MHz	3813.99 MHz	3866.01 MHz	3918.00 MHz	3969.99 MHz		
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	13.85	14.05	13.98	0.0	15.0	13.98	13.23	12.93	13.06	12.97	13.05	0.0	15.0
			1	25	13.89	14.11	13.79	0.0	15.0	13.55	12.82	12.80	13.04	13.19	13.22	0.0	15.0
			1	49	14.01	14.08	13.43	0.0	15.0	13.71	12.84	12.89	12.90	13.46	13.27	0.0	15.0
			25	0	13.89	14.05	13.89	0.0	15.0	13.73	13.02	13.12	13.12	13.14	13.38	0.0	15.0
			25	13	13.88	14.09	13.79	0.0	15.0	13.84	12.95	13.00	12.93	13.01	13.60	0.0	15.0
			25	26	13.96	14.11	13.63	0.0	15.0	13.79	12.98	13.13	12.85	13.22	13.25	0.0	15.0
			50	0	13.89	14.07	13.77	0.0	15.0	13.82	13.16	13.07	13.14	13.17	13.54	0.0	15.0
		QPSK	1	1	13.91	14.06	13.99	0.0	15.0	13.90	13.09	12.71	13.04	13.25	13.14	0.0	15.0
			1	25	13.89	14.11	13.78	0.0	15.0	13.84	12.93	13.06	12.97	12.97	13.54	0.0	15.0
			1	49	14.00	14.09	13.41	0.0	15.0	13.50	13.20	13.20	13.01	12.80	13.40	0.0	15.0
			25	0	13.91	14.08	13.90	0.0	15.0	13.71	13.18	12.78	12.98	12.92	13.42	0.0	15.0
			25	13	13.88	14.10	13.80	0.0	15.0	13.75	13.31	12.84	13.06	12.94	13.43	0.0	15.0
			25	26	13.94	14.12	13.60	0.0	15.0	13.84	13.22	12.96	13.04	13.01	13.59	0.0	15.0
			50	0	13.90	14.10	13.78	0.0	15.0	13.73	13.14	13.13	12.97	13.13	13.31	0.0	15.0
		16QAM	1	1	13.92	14.11	14.02	0.0	15.0	13.15	13.38	12.82	13.08	13.17	13.88	0.0	15.0
			1	25	13.88	14.13	13.77	0.0	15.0	13.41	13.40	12.81	13.20	12.89	13.87	0.0	15.0
			1	49	14.01	14.15	13.46	0.0	15.0	13.22	13.28	12.98	13.14	12.90	13.81	0.0	15.0
		64QAM	1	1	13.85	14.05	13.91	0.0	15.0	13.11	12.92	12.83	13.01	12.87	13.61	0.0	15.0
		256QAM	1	1	13.87	14.07	13.94	0.0	15.0	13.24	13.12	12.84	12.94	12.85	13.65	0.0	15.0
	CP-OFDM	QPSK	1	1	13.85	14.09	13.90	0.0	15.0	13.27	13.00	12.86	13.13	12.82	13.64	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
					630500	633334	636166			647168	650700	654234	657766	661300	664832		
					3457.50 MHz	3500.01 MHz	3542.49 MHz			3707.52 MHz	3760.50 MHz	3813.51 MHz	3866.49 MHz	3919.50 MHz	3972.48 MHz		
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	13.79	14.16	13.85	0.0	15.0	13.62	13.05	13.24	12.70	12.93	13.05	0.0	15.0
			1	18	13.73	14.13	13.64	0.0	15.0	13.51	12.69	12.94	13.04	13.19	12.82	0.0	15.0
			1	36	13.85	14.16	13.47	0.0	15.0	13.62	12.57	13.12	12.63	13.33	13.27	0.0	15.0
			18	0	13.81	14.17	13.85	0.0	15.0	13.42	13.02	13.40	12.94	12.92	13.11	0.0	15.0
			18	10	13.81	14.18	13.72	0.0	15.0	13.71	12.86	13.37	12.84	12.92	13.38	0.0	15.0
			18	20	13.81	14.20	13.59	0.0	15.0	13.43	12.89	13.54	12.63	13.18	12.94	0.0	15.0
			36	0	13.82	14.16	13.72	0.0	15.0	13.51	12.80	13.57	12.87	13.17	13.27	0.0	15.0
		QPSK	1	1	13.81	14.18	13.90	0.0	15.0	13.90	12.78	13.26	12.77	13.16	13.10	0.0	15.0
			1	18	13.75	14.14	13.70	0.0	15.0	13.48	12.57	13.25	12.88	12.84	13.59	0.0	15.0
			1	36	13.85	14.18	13.48	0.0	15.0	13.28	13.02	13.52	13.06	12.80	13.18	0.0	15.0
			18	0	13.81	14.19	13.85	0.0	15.0	13.44	13.14	13.19	13.03	12.65	13.42	0.0	15.0
			18	10	13.82	14.20	13.73	0.0	15.0	13.53	12.95	13.07	12.70	12.63	13.21	0.0	15.0
			18	20	13.78	14.20	13.58	0.0	15.0	13.62	13.00	13.19	12.77	12.88	13.37	0.0	15.0
			36	0	13.77	14.13	13.73	0.0	15.0	13.42	12.92	13.54	13.02	13.18	13.27	0.0	15.0
		16QAM	1	1	13.80	14.19	13.91	0.0	15.0	13.57	13.16	13.10	12.86	12.99	13.20	0.0	15.0
			1	18	13.73	14.11	13.69	0.0	15.0	13.83	13.13	13.36	13.07	12.67	13.28	0.0	15.0
			1	36	13.84	14.19	13.47	0.0	15.0	13.86	13.19	13.08	13.10	12.86	13.00	0.0	15.0
		64QAM	1	1	13.74	14.10	13.84	0.0	15.0	13.37	12.92	13.20	12.92	12.91	13.24	0.0	15.0
		256QAM	1	1	13.75	14.14	13.85	0.0	15.0	13.35	12.89	13.22	12.85	12.92	13.29	0.0	15.0
	CP-OFDM	QPSK	1	1	13.78	14.11	13.87	0.0	15.0	13.34	12.91	13.21	12.91	12.94	13.23	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
					630334	633334	636332			647000	650600	654200	657800	661400	665000		
					3455.01 MHz	3500.01 MHz	3544.98 MHz			3705.00 MHz	3759.00 MHz	3813.00 MHz	3867.00 MHz	3921.00 MHz	3975.00 MHz		
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	13.93	13.83	14.24	0.0	15.0	14.24	13.63	13.55	13.70	13.97	13.96	0.0	15.0
			1	12	13.90	13.85	14.19	0.0	15.0	14.28	13.59	13.68	13.77	14.02	14.01	0.0	15.0
			1	22	13.91	13.83	14.18	0.0	15.0	14.15	13.53	13.67	13.71	13.98	13.96	0.0	15.0
			12	0	13.92	13.90	14.23	0.0	15.0	14.23	13.63	13.56	13.71	13.90	14.00	0.0	15.0
			12	6	13.88	13.88	14.20	0.0	15.0	14.19	13.59	13.62	13.73	13.94	13.98	0.0	15.0
			12	12	13.86	13.87	14.19	0.0	15.0	14.20	13.58	13.68	13.75	13.98	13.99	0.0	15.0
			24	0	13.90	13.89	14.23	0.0	15.0	14.23	13.61	13.62	13.72	13.94	14.00	0.0	15.0
		QPSK	1	1	13.26	13.90	14.26	0.0	15.0	14.25	13.65	13.53	13.71	13.98	14.01	0.0	15.0
			1	12	13.28	13.87	14.27	0.0	15.0	13.93	13.53	13.58	13.67	13.93	14.15	0.0	15.0
			1	22	13.35	13.86	14.23	0.0	15.0	13.97	13.56	13.68	13.69	13.96	14.16	0.0	15.0
			12	0	13.26	13.88	14.28	0.0	15.0	14.00	13.63	13.58	13.71	13.97	14.23	0.0	15.0
			12	6	13.27	13.89	14.25	0.0	15.0	13.99	13.62	13.62	13.72	13.98	14.19	0.0	15.0
			12	12	13.33	13.84	14.24	0.0	15.0	13.96	13.57	13.66	13.71	13.98	14.17	0.0	15.0
			24	0	13.28	13.86	14.27	0.0	15.0	13.98	13.61	13.61	13.71	13.96	14.22	0.0	15.0
		16QAM	1	1	13.28	13.90	14.23	0.0	15.0	13.99	13.66	13.53	13.69	13.93	13.99	0.0	15.0
			1	12	13.29	13.88	14.26	0.0	15.0	14.02	13.63	13.63	13.73	13.96	14.02	0.0	15.0
			1	22	13.36	13.86	14.21	0.0	15.0	13.95	13.57	13.67	13.71	13.96	13.95	0.0	15.0
		64QAM	1	1	13.23	13.85	14.13	0.0	15.0	13.93	13.59	13.44	13.67	13.87	13.93	0.0	15.0
		256QAM	1	1	13.20	13.86	14.23	0.0	15.0	13.97	13.60	13.48	13.65	13.91	13.97	0.0	15.0
	CP-OFDM	QPSK	1	1	13.22	13.82	14.20	0.0	15.0	13.94	13.59	13.53	13.68	13.92	13.94	0.0	15.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

NR Band n77 (SRS1) (Ant. D) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)												
		RSI = 0, 3, 4												
		Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
			633334				650000					662000		
			3500.01 MHz				3750.00 MHz					3930.00 MHz		
100 MHz	SRS CW		14.18		0.0	15.0	14.28					14.26	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
			633334				649668			656000		662332		
			3500.01 MHz				3745.02 MHz			3840.00 MHz		3934.98 MHz		
90 MHz	SRS CW		13.88		0.0	15.0	14.30			14.24		14.12	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
			633334				649334			656000		662666		
			3500.01 MHz				3740.01 MHz			3840.00 MHz		3939.99 MHz		
80 MHz	SRS CW		13.58		0.0	15.0	14.26			14.25		14.07	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
			633334				649000	653666			658334	663000		
			3500.01 MHz				3735.00 MHz	3804.99 MHz			3875.01 MHz	3945.00 MHz		
70 MHz	SRS CW		13.62		0.0	15.0	14.01	14.13			13.98	14.01	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
			633334				648668	653556			658444	663332		
			3500.01 MHz				3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz		
60 MHz	SRS CW		13.61		0.0	15.0	13.99	13.98			13.93	13.95	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		631668		635000			648334	652168		656000	659834	663666		
		3475.02 MHz		3525.00 MHz			3725.01 MHz	3782.52 MHz		3840.00 MHz	3897.51 MHz	3954.99 MHz		
50 MHz	SRS CW	13.74		13.89	0.0	15.0	13.89	14.01		14.29	13.88	13.68	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		631334		635332			648000	651200	654400	657600	660800	664000		
		3470.01 MHz		3529.98 MHz			3720.00 MHz	3768.00 MHz	3816.00 MHz	3864.00 MHz	3912.00 MHz	3960.00 MHz		
40 MHz	SRS CW	13.89		14.06	0.0	15.0	13.94	14.24	13.93	14.16	13.67	13.69	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		631000	633334	635666			647668	651000	654334	657666	661000	664332		
		3465.00 MHz	3500.01 MHz	3534.99 MHz			3715.02 MHz	3765.00 MHz	3815.01 MHz	3864.99 MHz	3915.00 MHz	3964.98 MHz		
30 MHz	SRS CW	13.91	13.62	13.96	0.0	15.0	13.94	14.12	13.96	14.06	13.84	13.79	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		630834	633334	635832			647500	650900	654300	657700	661100	664500		
		3462.51 MHz	3500.01 MHz	3537.48 MHz			3712.50 MHz	3763.50 MHz	3814.50 MHz	3865.50 MHz	3916.50 MHz	3967.50 MHz		
25 MHz	SRS CW	14.01	13.66	13.98	0.0	15.0	13.93	14.08	13.91	14.04	13.87	13.79	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		630668	633334	636000			647334	650800	654266	657734	661200	664666		
		3460.02 MHz	3500.01 MHz	3540.00 MHz			3710.01 MHz	3762.00 MHz	3813.99 MHz	3866.01 MHz	3918.00 MHz	3969.99 MHz		
20 MHz	SRS CW	14.02	13.67	14.06	0.0	15.0	13.96	14.08	13.95	13.99	13.89	13.88	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		630500	633332	636166			647168	650700	654234	657766	661300	664832		
		3457.50 MHz	3500.01 MHz	3542.49 MHz			3707.52 MHz	3760.50 MHz	3813.51 MHz	3866.49 MHz	3919.50 MHz	3972.48 MHz		
15 MHz	SRS CW	14.03	13.69	14.12	0.0	15.0	13.98	14.04	13.92	13.74	13.96	13.86	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		630334	633334	636332			647000	650600	654200	657800	661400	665000		
		3455.01 MHz	3500.01 MHz	3544.98 MHz			3705.00 MHz	3759.00 MHz	3813.00 MHz	3867.00 MHz	3921.00 MHz	3975.00 MHz		
10 MHz	SRS CW	13.89	13.48	13.86	0.0	15.0	14.06	13.94	14.02	13.89	14.14	13.91	0.0	15.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

NR Band n77 (SRS2) (Ant. G) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)												
		RSI = 0,3,4												
		Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
			633334				650000					662000		
			3500.01 MHz				3750.00 MHz					3930.00 MHz		
100 MHz	SRS CW		14.11		0.0	15.0	14.63					13.95	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
			633334				649668			656000		662332		
			3500.01 MHz				3745.02 MHz			3840.00 MHz		3934.98 MHz		
90 MHz	SRS CW		14.03		0.0	15.0	14.58			13.48		13.29	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
			633334				649334			656000		662666		
			3500.01 MHz				3740.01 MHz			3840.00 MHz		3939.99 MHz		
80 MHz	SRS CW		14.03		0.0	15.0	14.37			13.98		13.60	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
			633334				649000	653666			658334	663000		
			3500.01 MHz				3735.00 MHz	3804.99 MHz			3875.01 MHz	3945.00 MHz		
70 MHz	SRS CW		14.10		0.0	15.0	14.16	13.63			13.65	13.56	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
			633334				648668	653556			658444	663332		
			3500.01 MHz				3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz		
60 MHz	SRS CW		14.16		0.0	15.0	14.01	13.64			13.68	13.46	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		631668		635000			648334	652168		656000	659834	663666		
		3475.02 MHz		3525.00 MHz			3725.01 MHz	3782.52 MHz		3840.00 MHz	3897.51 MHz	3954.99 MHz		
50 MHz	SRS CW	13.76		14.44	0.0	15.0	13.92	13.65		13.64	13.59	13.41	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		631334		635332			648000	651200	654400	657600	660800	664000		
		3470.01 MHz		3529.98 MHz			3720.00 MHz	3768.00 MHz	3816.00 MHz	3864.00 MHz	3912.00 MHz	3960.00 MHz		
40 MHz	SRS CW	13.76		14.58	0.0	15.0	13.76	13.70	13.24	13.86	13.52	13.55	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		631000	633334	635666			647668	651000	654334	657666	661000	664332		
		3465.00 MHz	3500.01 MHz	3534.99 MHz			3715.02 MHz	3765.00 MHz	3815.01 MHz	3864.99 MHz	3915.00 MHz	3964.98 MHz		
30 MHz	SRS CW	13.81	14.42	14.63	0.0	15.0	13.84	13.86	13.31	13.91	13.56	13.58	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		630834	633334	635832			647500	650900	654300	657700	661100	664500		
		3462.51 MHz	3500.01 MHz	3537.48 MHz			3712.50 MHz	3763.50 MHz	3814.50 MHz	3865.50 MHz	3916.50 MHz	3967.50 MHz		
25 MHz	SRS CW	13.81	14.46	14.69	0.0	15.0	13.89	13.85	13.32	13.90	13.60	13.64	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		630668	633334	636000			647334	650800	654266	657734	661200	664666		
		3460.02 MHz	3500.01 MHz	3540.00 MHz			3710.01 MHz	3762.00 MHz	3813.99 MHz	3866.01 MHz	3918.00 MHz	3969.99 MHz		
20 MHz	SRS CW	13.87	14.50	14.68	0.0	15.0	13.91	13.94	13.76	14.14	14.05	13.95	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		630500	633334	636166			647168	650700	654234	657766	661300	664832		
		3457.50 MHz	3500.01 MHz	3542.49 MHz			3707.52 MHz	3760.50 MHz	3813.51 MHz	3866.49 MHz	3919.50 MHz	3972.48 MHz		
15 MHz	SRS CW	13.89	14.54	14.66	0.0	15.0	13.91	13.94	13.89	14.08	14.02	14.01	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		630334	633334	636332			647000	650600	654200	657800	661400	665000		
		3455.01 MHz	3500.01 MHz	3544.98 MHz			3705.00 MHz	3759.00 MHz	3813.00 MHz	3867.00 MHz	3921.00 MHz	3975.00 MHz		
10 MHz	SRS CW	13.79	14.59	14.65	0.0	15.0	13.95	13.97	13.83	14.02	14.02	13.90	0.0	15.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

NR Band n77 (SRS3) (Ant. F) Measured Results

BW (MHz)	Mode	Maximum Allowed Average Power (dBm)													
		RSI = 0, 3, 4													
		Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
			633334				650000					662000		
			3500.01 MHz				3750.00 MHz					3930.00 MHz		
100 MHz	SRS CW		14.21		0.0	15.0	14.04					14.02	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
			633334				649668			656000		662332		
			3500.01 MHz				3745.02 MHz			3840.00 MHz		3934.98 MHz		
90 MHz	SRS CW		14.02		0.0	15.0	14.14			14.18		14.12	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
			633334				649334			656000		662666		
			3500.01 MHz				3740.01 MHz			3840.00 MHz		3939.99 MHz		
80 MHz	SRS CW		13.99		0.0	15.0	14.17			14.09		14.12	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
			633334				649000	653666			658334	663000		
			3500.01 MHz				3735.00 MHz	3804.99 MHz			3875.01 MHz	3945.00 MHz		
70 MHz	SRS CW		13.84		0.0	15.0	14.07	13.95			14.33	14.13	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
			633334				648668	653556			658444	663332		
			3500.01 MHz				3730.02 MHz	3803.34 MHz			3876.66 MHz	3949.98 MHz		
60 MHz	SRS CW		13.82		0.0	15.0	14.17	13.94			14.29	14.05	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		631668		635000			648334	652168		656000	659834	663666		
		3475.02 MHz		3525.00 MHz			3725.01 MHz	3782.52 MHz		3840.00 MHz	3897.51 MHz	3954.99 MHz		
50 MHz	SRS CW	13.31		14.81	0.0	15.0	13.49	13.89		14.21	14.12	14.04	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		631334		635332			648000	651200	654400	657600	660800	664000		
		3470.01 MHz		3529.98 MHz			3720.00 MHz	3768.00 MHz	3816.00 MHz	3864.00 MHz	3912.00 MHz	3960.00 MHz		
40 MHz	SRS CW	13.64		13.81	0.0	15.0	14.01	13.98	13.95	14.13	14.09	14.12	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		631000	633334	635666			647668	651000	654334	657666	661000	664332		
		3465.00 MHz	3500.01 MHz	3534.99 MHz			3715.02 MHz	3765.00 MHz	3815.01 MHz	3864.99 MHz	3915.00 MHz	3964.98 MHz		
30 MHz	SRS CW	13.73	13.75	13.94	0.0	15.0	14.05	14.08	13.92	14.04	14.15	14.09	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		630834	633334	635832			647500	650900	654300	657700	661100	664500		
		3462.51 MHz	3500.01 MHz	3537.48 MHz			3712.50 MHz	3763.50 MHz	3814.50 MHz	3865.50 MHz	3916.50 MHz	3967.50 MHz		
25 MHz	SRS CW	13.71	13.78	12.61	0.0	15.0	13.96	14.14	13.46	14.02	14.27	14.13	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		630668	633334	636000			647334	650800	654266	657734	661200	664666		
		3460.02 MHz	3500.01 MHz	3540.00 MHz			3710.01 MHz	3762.00 MHz	3813.99 MHz	3866.01 MHz	3918.00 MHz	3969.99 MHz		
20 MHz	SRS CW	13.81	13.83	13.86	0.0	15.0	13.91	14.03	13.94	14.01	14.23	13.98	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		630500	633334	636166			647168	650700	654234	657766	661300	664832		
		3457.50 MHz	3500.01 MHz	3542.49 MHz			3707.52 MHz	3760.50 MHz	3813.51 MHz	3866.49 MHz	3919.50 MHz	3972.48 MHz		
15 MHz	SRS CW	13.87	13.86	13.87	0.0	15.0	13.99	14.11	13.95	13.97	14.25	14.04	0.0	15.0
BW (MHz)	Mode	Measured Pwr (dBm)			MPR	Tune-up Limit	Measured Pwr (dBm)						MPR	Tune-up Limit
		630334	633334	636332			647000	650600	654200	657800	661400	665000		
		3455.01 MHz	3500.01 MHz	3544.98 MHz			3705.00 MHz	3759.00 MHz	3813.00 MHz	3867.00 MHz	3921.00 MHz	3975.00 MHz		
10 MHz	SRS CW	13.94	13.89	13.95	0.0	15.0	13.93	13.92	14.03	14.03	14.33	13.98	0.0	15.0

Notes:

NR TDD Bands were measured output power through FTM mode provided by manufacturer.

9.5. Wi-Fi 2.4 GHz (DTS Band)

WLAN Ant.D output power results (Maximum Power)

Antenna	Mode	Data Rate	Ch #	Freq. (MHz)	Meas. Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
WiFi 2.4G Ant.D	802.11b	1 Mbps	1	2412	20.15	21	Yes
			6	2437	19.89		
			11	2462	20.26		
			12	2467	Not Required	8	No
			13	2472		6	
	802.11g	6 Mbps	Not Required			20	No
	802.11n (HT20)	MCS 0	Not Required			20	No

WLAN Ant.D output power Results (Reduced Power)

Antenna	Mode	Data Rate	Ch #	Freq. (MHz)	Meas. Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
WiFi 2.4G Ant.D	802.11b	1 Mbps	1	2412	10.82	12	Yes
			6	2437	11.46		
			11	2462	11.37		
			12	2467	Not required	8	No
			13	2472		6	
	802.11g	6 Mbps	Not required			12	No
	802.11n (HT20)	MCS 0	Not required			12	No

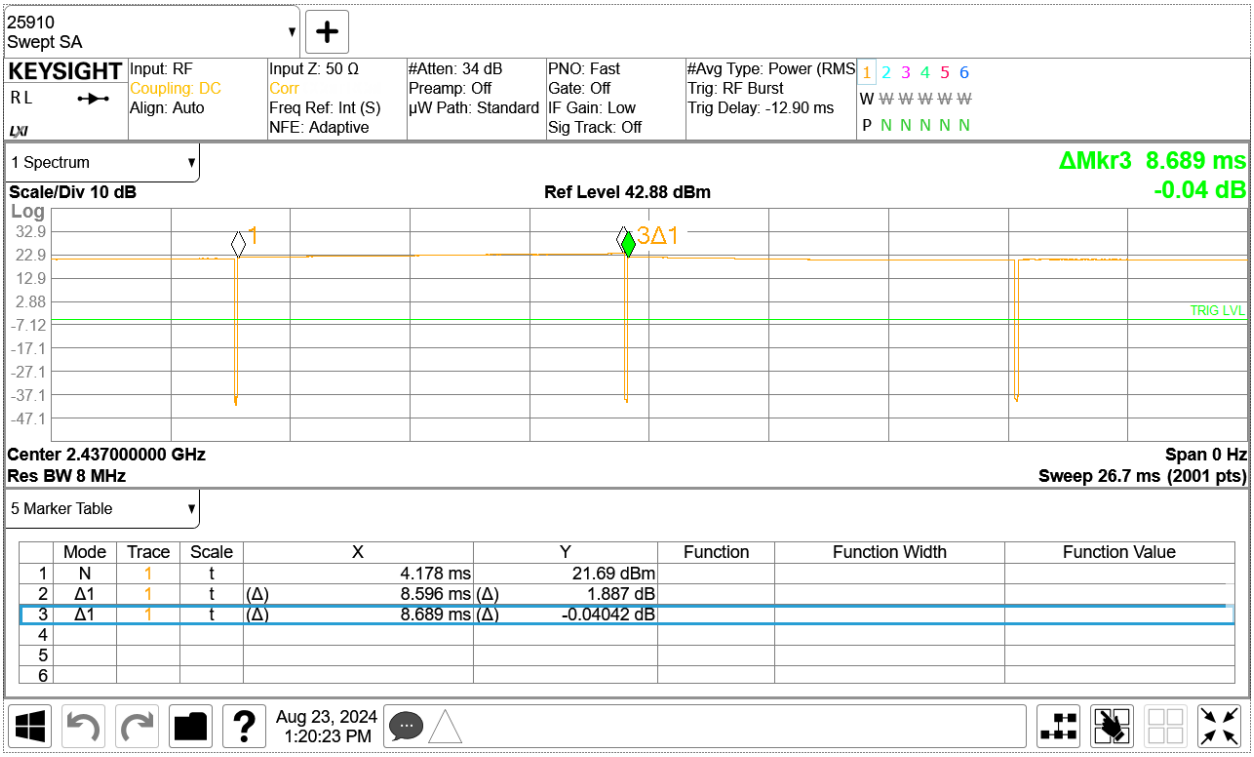
Note(s):

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 Result

Mode	T on (ms)	Period (ms)	Maximum Duty Cyle	Measured Duty Cycle	Crest Factor (maximum duty/ measured duty cycle)
802.11b	8.596	8.689	100.00%	98.93%	1.01

Duty Cycle plot (802.11b)



9.6. Wi-Fi 5GHz (U-NII Bands)

WLAN Ant.D output power Results (Maximum Power)

Band (GHz)	Mode	Data Rate	Ch #	Freq. (MHz)	Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
UNII-2A	802.11a	6 Mbps	52	5260	15.42	16	Yes
			56	5280	15.31		
			60	5300	15.44		
			64	5320	15.47		
	802.11n (HT20)	MCS0	Not Required			16	No
	802.11n (HT40)	MCS0	Not Required			15	No
	802.11ac (VHT80)	MCS0	Not Required			14	No
UNII-2C	802.11a	6 Mbps	100	5500	13.84	15	Yes
			120	5600	14.26		
			124	5620	14.53		
			144	5720	14.58		
	802.11n (HT20)	MCS0	Not Required			15	No
	802.11n (HT40)	MCS0	Not Required			14	No
	802.11ac (VHT80)	MCS0	Not Required			13	No
UNII-3 or §15.247	802.11a	6 Mbps	149	5745	15.51	16	Yes
			157	5785	15.27		
			165	5825	15.25		
	802.11n (HT20)	MCS0	Not Required			16	No
	802.11n (HT40)	MCS0	Not Required			15	No
	802.11ac (VHT80)	MCS0	Not Required			14	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 modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n theb ac) 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 Ant.D output power Results (Reduced Power)

Band (GHz)	Mode	Data Rate	Ch #	Freq. (MHz)	Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
UNII-2A	802.11a	6 Mbps	Not Required			11	No
	802.11n (HT20)	MCS0	Not Required			11	No
	802.11n (HT40)	MCS0	Not Required			11	No
	802.11ac (VHT80)	MCS0	58	5290	10.33	11	Yes
UNII-2C	802.11a	6 Mbps	Not Required			11	No
	802.11n (HT20)	MCS0	Not Required			11	No
	802.11n (HT40)	MCS0	Not Required			11	No
	802.11ac (VHT80)	MCS0	106	5530	10.46	11	Yes
			122	5610	10.45		
			138	5690	10.36		
UNII-3 or §15.247	802.11a	6 Mbps	Not Required			11	No
	802.11n (HT20)	MCS0	Not Required			11	No
	802.11n (HT40)	MCS0	Not Required			11	No
	802.11ac (VHT80)	MCS0	155	5775	10.46	11	Yes

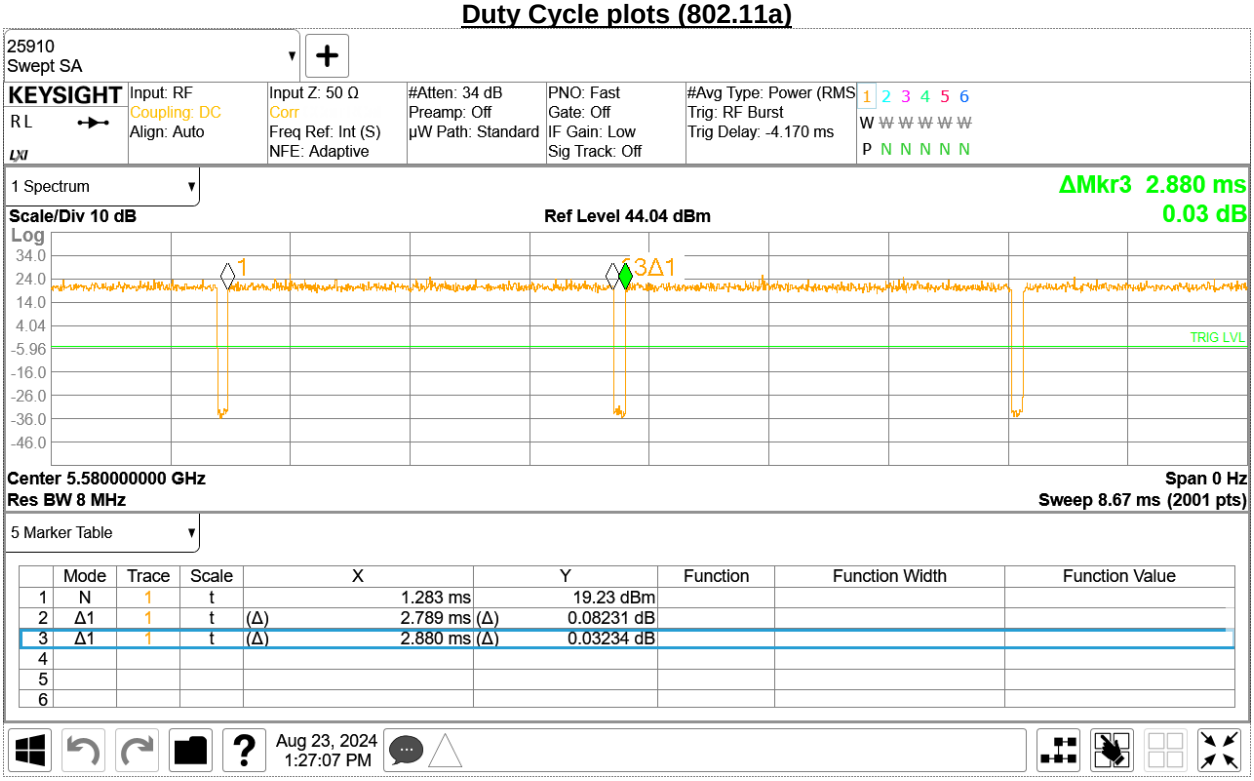
Note(s):

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 modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n theb ac) 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.

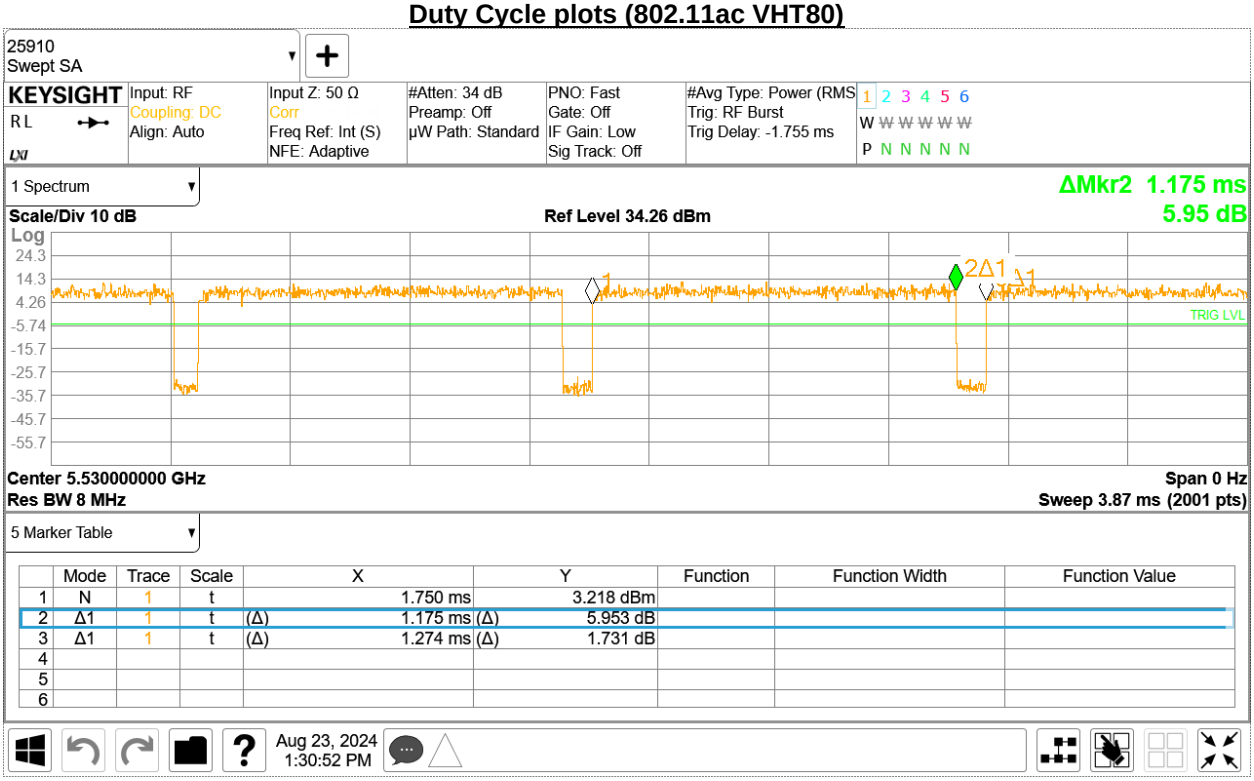
Duty Factor Measured Results

Mode	T on (ms)	Period (ms)	Maximum Duty Cycle	Measured Duty Cycle	Crest Factor (Maximum duty/ Measured duty cycle)
802.11a	2.789	2.880	100.00%	96.84%	1.03
802.11ac VHT 80	1.175	1.274	100.00%	92.23%	1.08

Duty Cycle plots (802.11a)



Duty Cycle plots (802.11ac VHT80)



9.7. Bluetooth

Bluetooth Ant.D output power Results

Band (GHz)	Antenna	Mode	Ch #	Freq. (MHz)	Meas. Avg Pwr (dBm)	Max. Tune-up Limit (dBm)	SAR Test (Yes/No)
Bluetooth 2.4G	Bluetooth Ant.D	Bluetooth (BDR)	0	2402	Not Required	12	No
			39	2441			
			78	2480			
		Bluetooth (EDR)	0	2402	Not Required	8	No
			39	2441			
			78	2480			
		Bluetooth (LE) 125kbps	0	2402	11.68	12	Yes
			19	2440	11.34		
			39	2480	11.42		
		Bluetooth (LE) 1Mbps/500kbps	0	2402	Not Required	12	Yes
			19	2440			
			39	2480			
		Bluetooth (LE) 2Mbps	0	2402	Not Required	12	Yes
			19	2440			
			39	2480			

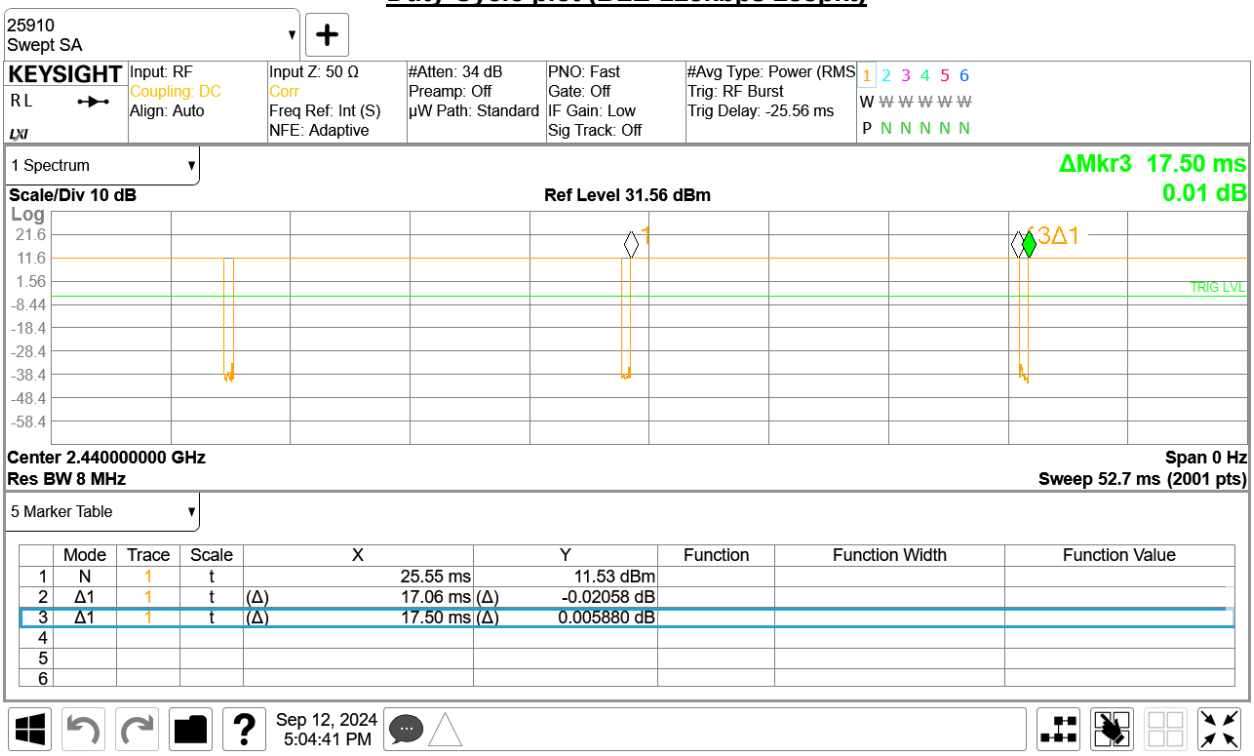
Note(s):

For BT/BLE SISO SAR test, BLE (125kbps 255pkt) has highest time-based averaged power in all modes. So, SAR test performed at BLE (125kbps 255pkt)

Duty Factor Measured Results

Mode	T on (ms)	Period (ms)	Maximum Duty Cyle	Measured Duty Cycle	Crest Factor (maximum duty/ measured duty cycle)
BLE 125kbps	17.060	17.500	96.00%	97.49%	N/A[2]

Duty Cycle plot (BLE-125kbps 255pkt)



	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	t	25.55 ms	11.53 dBm			
2	Δ1	1	t	(Δ) 17.06 ms	(Δ) -0.02058 dB			
3	Δ1	1	t	(Δ) 17.50 ms	(Δ) 0.005880 dB			
4								
5								
6								

Note(s):

1. Maximum Duty Cycle is mentioned in Operational description. Detail of BT Duty Cycle refer to Operational description.
2. Measured Duty Cycle is higher than Maximum Duty Cycle. So, Crest factor is not applied to BT SAR results.

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
- Wi-Fi Duty Cycle scaling factor = 1 / Duty cycle (%)
- BT Duty Cycle scaling factor = Maximum Duty cycle / 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. GSM 850

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	GPRS 4 Slots	4	0	Left Touch	190	836.6	28.00	27.06	0.218	0.271	
AG.0	Ant.A	Head	GPRS 4 Slots	4	0	Left Tilt	190	836.6	28.00	27.06	0.138	0.171	
AG.0	Ant.A	Head	GPRS 4 Slots	4	0	Right Touch	190	836.6	28.00	27.06	0.272	0.338	1
AG.0	Ant.A	Head	GPRS 4 Slots	4	0	Right Tilt	190	836.6	28.00	27.06	0.170	0.211	
AG.0	Ant.A	Body worn & Hotspot	GPRS 4 Slots	3	10	Rear	190	836.6	28.00	27.06	0.345	0.428	2
AG.0	Ant.A	Body worn & Hotspot	GPRS 4 Slots	3	10	Front	190	836.6	28.00	27.06	0.203	0.252	
AG.0	Ant.A	Hotspot	GPRS 4 Slots	3	10	Left	190	836.6	28.00	27.06	0.200	0.248	
AG.0	Ant.A	Hotspot	GPRS 4 Slots	3	10	Bottom	190	836.6	28.00	27.06	0.236	0.293	
AG.0	Ant.A	Hotspot	GPRS 4 Slots	3	10	Right	190	836.6	28.00	27.06	0.321	0.399	

Note(s):
Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.2. GSM 1900

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	GPRS 3 Slots	4	0	Left Touch	661	1880.0	27.50	26.44	0.122	0.156	3
AG.0	Ant.A	Head	GPRS 3 Slots	4	0	Left Tilt	661	1880.0	27.50	26.44	0.113	0.144	
AG.0	Ant.A	Head	GPRS 3 Slots	4	0	Right Touch	661	1880.0	27.50	26.44	0.097	0.124	
AG.0	Ant.A	Head	GPRS 3 Slots	4	0	Right Tilt	661	1880.0	27.50	26.44	0.071	0.090	
AG.0	Ant.A	Body worn & Hotspot	GPRS 3 Slots	3	10	Rear	661	1880.0	27.50	26.44	0.420	0.536	
AG.0	Ant.A	Body worn & Hotspot	GPRS 3 Slots	3	10	Front	661	1880.0	27.50	26.44	0.264	0.337	
AG.0	Ant.A	Hotspot	GPRS 3 Slots	3	10	Left	661	1880.0	27.50	26.44	0.163	0.208	
AG.0	Ant.A	Hotspot	GPRS 3 Slots	3	10	Bottom	661	1880.0	27.50	26.44	0.467	0.596	4
AG.0	Ant.A	Hotspot	GPRS 3 Slots	3	10	Right	661	1880.0	27.50	26.44	0.073	0.093	

Note(s):
Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.3. WCDMA Band II

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	Rel 99 RMC	4	0	Left Touch	9400	1880.0	25.00	24.94	0.203	0.206	5
AG.0	Ant.A	Head	Rel 99 RMC	4	0	Left Tilt	9400	1880.0	25.00	24.94	0.203	0.206	
AG.0	Ant.A	Head	Rel 99 RMC	4	0	Right Touch	9400	1880.0	25.00	24.94	0.191	0.194	
AG.0	Ant.A	Head	Rel 99 RMC	4	0	Right Tilt	9400	1880.0	25.00	24.94	0.123	0.125	
AG.0	Ant.A	Body worn & Hotspot	Rel 99 RMC	3	10	Rear	9400	1880.0	22.00	21.62	0.375	0.409	6
AG.0	Ant.A	Body worn & Hotspot	Rel 99 RMC	3	10	Front	9400	1880.0	22.00	21.62	0.205	0.224	
AG.0	Ant.A	Hotspot	Rel 99 RMC	3	10	Left	9400	1880.0	22.00	21.62	0.155	0.169	
AG.0	Ant.A	Hotspot	Rel 99 RMC	3	10	Bottom	9400	1880.0	22.00	21.62	0.358	0.391	
AG.0	Ant.A	Hotspot	Rel 99 RMC	3	10	Right	9400	1880.0	22.00	21.62	0.056	0.061	

Note(s):
Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.4. WCDMA Band IV

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	Rel 99 RMC	4	0	Left Touch	1413	1732.6	25.00	24.93	0.188	0.191	
AG.0	Ant.A	Head	Rel 99 RMC	4	0	Left Tilt	1413	1732.6	25.00	24.93	0.178	0.181	
AG.0	Ant.A	Head	Rel 99 RMC	4	0	Right Touch	1413	1732.6	25.00	24.93	0.201	0.204	7
AG.0	Ant.A	Head	Rel 99 RMC	4	0	Right Tilt	1413	1732.6	25.00	24.93	0.158	0.161	
AG.0	Ant.A	Body worn & Hotspot	Rel 99 RMC	3	10	Rear	1312	1712.4	22.00	21.75	0.335	0.355	8
AG.0	Ant.A	Body worn & Hotspot	Rel 99 RMC	3	10	Front	1312	1712.4	22.00	21.75	0.218	0.231	
AG.0	Ant.A	Hotspot	Rel 99 RMC	3	10	Left	1312	1712.4	22.00	21.75	0.148	0.157	
AG.0	Ant.A	Hotspot	Rel 99 RMC	3	10	Bottom	1312	1712.4	22.00	21.75	0.331	0.351	
AG.0	Ant.A	Hotspot	Rel 99 RMC	3	10	Right	1312	1712.4	22.00	21.75	0.103	0.109	

Note(s):

Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.5. WCDMA Band V

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	Rel 99 RMC	4	0	Left Touch	4183	836.6	25.50	25.02	0.235	0.262	
AG.0	Ant.A	Head	Rel 99 RMC	4	0	Left Tilt	4183	836.6	25.50	25.02	0.145	0.162	
AG.0	Ant.A	Head	Rel 99 RMC	4	0	Right Touch	4183	836.6	25.50	25.02	0.283	0.316	9
AG.0	Ant.A	Head	Rel 99 RMC	4	0	Right Tilt	4183	836.6	25.50	25.02	0.160	0.179	
AG.0	Ant.A	Body worn & Hotspot	Rel 99 RMC	3	10	Rear	4183	836.6	25.50	25.02	0.339	0.379	10
AG.0	Ant.A	Body worn & Hotspot	Rel 99 RMC	3	10	Front	4183	836.6	25.50	25.02	0.224	0.250	
AG.0	Ant.A	Hotspot	Rel 99 RMC	3	10	Left	4183	836.6	25.50	25.02	0.198	0.221	
AG.0	Ant.A	Hotspot	Rel 99 RMC	3	10	Bottom	4183	836.6	25.50	25.02	0.240	0.268	
AG.0	Ant.A	Hotspot	Rel 99 RMC	3	10	Right	4183	836.6	25.50	25.02	0.284	0.317	

Note(s):

Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.6. LTE Band 2 (20MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.1	Ant.B	Head	QPSK	4	0	Left Touch	18900	1880.0	1	99	22.00	20.49	0.091	0.129	
AG.1	Ant.B	Head	QPSK	4	0	Left Touch	18900	1880.0	50	50	22.00	20.37	0.090	0.132	
AG.1	Ant.B	Head	QPSK	4	0	Left Tilt	18900	1880.0	1	99	22.00	20.49	0.052	0.074	
AG.1	Ant.B	Head	QPSK	4	0	Left Tilt	18900	1880.0	50	50	22.00	20.37	0.057	0.083	
AG.1	Ant.B	Head	QPSK	4	0	Right Touch	18900	1880.0	1	99	22.00	20.49	0.222	0.314	
AG.1	Ant.B	Head	QPSK	4	0	Right Touch	18900	1880.0	50	50	22.00	20.37	0.217	0.316	11
AG.1	Ant.B	Head	QPSK	4	0	Right Tilt	18900	1880.0	1	99	22.00	20.49	0.101	0.143	
AG.1	Ant.B	Head	QPSK	4	0	Right Tilt	18900	1880.0	50	50	22.00	20.37	0.096	0.139	
AG.1	Ant.B	Body worn & Hotspot	QPSK	3	10	Rear	18900	1880.0	1	99	21.00	19.21	0.309	0.467	
AG.1	Ant.B	Body worn & Hotspot	QPSK	3	10	Rear	18900	1880.0	50	50	21.00	19.32	0.322	0.474	12
AG.1	Ant.B	Body worn & Hotspot	QPSK	3	10	Front	18900	1880.0	1	99	21.00	19.21	0.043	0.065	
AG.1	Ant.B	Body worn & Hotspot	QPSK	3	10	Front	18900	1880.0	50	50	21.00	19.32	0.042	0.062	
AG.1	Ant.B	Hotspot	QPSK	3	10	Left	18900	1880.0	1	99	21.00	19.21	0.164	0.248	
AG.1	Ant.B	Hotspot	QPSK	3	10	Left	18900	1880.0	50	50	21.00	19.32	0.170	0.250	

Note(s):

Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.7. LTE Band 25 (20MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	26365	1882.5	1	99	24.00	22.40	0.225	0.325	13
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	26365	1882.5	50	50	24.00	22.43	0.173	0.248	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	26365	1882.5	1	99	24.00	22.40	0.174	0.252	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	26365	1882.5	50	50	24.00	22.43	0.146	0.210	
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	26365	1882.5	1	99	24.00	22.40	0.193	0.279	
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	26365	1882.5	50	50	24.00	22.43	0.146	0.210	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	26365	1882.5	1	99	24.00	22.40	0.154	0.223	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	26365	1882.5	50	50	24.00	22.43	0.117	0.168	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	26365	1882.5	1	99	21.00	19.30	0.319	0.472	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	26365	1882.5	50	50	21.00	19.37	0.305	0.444	14
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	26365	1882.5	1	99	21.00	19.30	0.184	0.272	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	26365	1882.5	50	50	21.00	19.37	0.187	0.272	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	26365	1882.5	1	99	21.00	19.30	0.113	0.167	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	26365	1882.5	50	50	21.00	19.37	0.112	0.163	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	26365	1882.5	1	99	21.00	19.30	0.230	0.340	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	26365	1882.5	50	50	21.00	19.37	0.241	0.351	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	26365	1882.5	1	99	21.00	19.30	0.041	0.061	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	26365	1882.5	50	50	21.00	19.37	0.041	0.060	

Note(s):

Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.8. LTE Band 66 (20MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	132322	1745.0	1	49	25.50	23.94	0.164	0.235	
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	132322	1745.0	50	0	24.50	22.94	0.138	0.198	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	132322	1745.0	1	49	25.50	23.94	0.151	0.216	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	132322	1745.0	50	0	24.50	22.94	0.126	0.180	
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	132322	1745.0	1	49	25.50	23.94	0.173	0.248	15
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	132322	1745.0	50	0	24.50	22.94	0.145	0.208	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	132322	1745.0	1	49	25.50	23.94	0.132	0.189	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	132322	1745.0	50	0	24.50	22.94	0.111	0.159	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	132322	1745.0	1	49	22.00	20.48	0.258	0.366	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	132322	1745.0	50	0	22.00	20.51	0.275	0.388	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	132322	1745.0	1	49	22.00	20.48	0.136	0.193	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	132322	1745.0	50	0	22.00	20.51	0.149	0.210	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	132322	1745.0	1	49	22.00	20.48	0.129	0.183	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	132322	1745.0	50	0	22.00	20.51	0.142	0.200	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	132322	1745.0	1	49	22.00	20.48	0.277	0.393	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	132322	1745.0	50	0	22.00	20.51	0.304	0.428	16
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	132322	1745.0	1	49	22.00	20.48	0.075	0.106	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	132322	1745.0	50	0	22.00	20.51	0.084	0.118	

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.1	Ant.B	Head	QPSK	4	0	Left Touch	132072	1720.0	1	0	22.00	20.14	0.080	0.123	
AG.1	Ant.B	Head	QPSK	4	0	Left Touch	132072	1720.0	50	0	22.00	20.16	0.075	0.114	
AG.1	Ant.B	Head	QPSK	4	0	Left Tilt	132072	1720.0	1	0	22.00	20.14	0.076	0.117	
AG.1	Ant.B	Head	QPSK	4	0	Left Tilt	132072	1720.0	50	0	22.00	20.16	0.074	0.113	
AG.1	Ant.B	Head	QPSK	4	0	Right Touch	132072	1720.0	1	0	22.00	20.14	0.165	0.253	17
AG.1	Ant.B	Head	QPSK	4	0	Right Touch	132072	1720.0	50	0	22.00	20.16	0.157	0.240	
AG.1	Ant.B	Head	QPSK	4	0	Rightt Tilt	132072	1720.0	1	0	22.00	20.14	0.056	0.086	
AG.1	Ant.B	Head	QPSK	4	0	Rightt Tilt	132072	1720.0	50	0	22.00	20.16	0.054	0.082	
AG.1	Ant.B	Body worn & Hotspot	QPSK	3	10	Rear	132072	1720.0	1	0	22.00	20.14	0.340	0.522	18
AG.1	Ant.B	Body worn & Hotspot	QPSK	3	10	Rear	132072	1720.0	50	0	22.00	20.16	0.233	0.356	
AG.1	Ant.B	Body worn & Hotspot	QPSK	3	10	Front	132072	1720.0	1	0	22.00	20.14	0.052	0.080	
AG.1	Ant.B	Body worn & Hotspot	QPSK	3	10	Front	132072	1720.0	50	0	22.00	20.16	0.047	0.071	
AG.1	Ant.B	Hotspot	QPSK	3	10	Left	132072	1720.0	1	0	22.00	20.14	0.109	0.167	
AG.1	Ant.B	Hotspot	QPSK	3	10	Left	132072	1720.0	50	0	22.00	20.16	0.105	0.160	

Note(s):

Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.9. LTE Band 5 (10MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	20525	836.5	1	0	23.50	22.57	0.215	0.266	
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	20525	836.5	25	0	23.50	22.56	0.188	0.233	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	20525	836.5	1	0	23.50	22.57	0.150	0.186	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	20525	836.5	25	0	23.50	22.56	0.129	0.160	
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	20525	836.5	1	0	23.50	22.57	0.252	0.312	19
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	20525	836.5	25	0	23.50	22.56	0.239	0.297	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	20525	836.5	1	0	23.50	22.57	0.134	0.166	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	20525	836.5	25	0	23.50	22.56	0.124	0.154	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	20525	836.5	1	0	24.00	22.93	0.383	0.490	20
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	20525	836.5	25	0	24.00	22.92	0.347	0.445	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	20525	836.5	1	0	24.00	22.93	0.223	0.285	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	20525	836.5	25	0	24.00	22.92	0.202	0.259	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	20525	836.5	1	0	24.00	22.93	0.202	0.258	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	20525	836.5	25	0	24.00	22.92	0.172	0.221	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	20525	836.5	1	0	24.00	22.93	0.236	0.302	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	20525	836.5	25	0	24.00	22.92	0.211	0.271	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	20525	836.5	1	0	24.00	22.93	0.297	0.380	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	20525	836.5	25	0	24.00	22.92	0.261	0.335	

Note(s):

Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.10. LTE Band 26 (15MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	26865	831.5	1	0	25.50	24.32	0.234	0.307	
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	26865	831.5	36	0	24.50	23.45	0.202	0.257	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	26865	831.5	1	0	25.50	24.32	0.112	0.147	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	26865	831.5	36	0	24.50	23.45	0.098	0.125	
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	26865	831.5	1	0	25.50	24.32	0.271	0.356	21
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	26865	831.5	36	0	24.50	23.45	0.240	0.306	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	26865	831.5	1	0	25.50	24.32	0.208	0.273	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	26865	831.5	36	0	24.50	23.45	0.179	0.228	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	26865	831.5	1	0	25.50	24.32	0.392	0.514	22
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	26865	831.5	36	0	24.50	23.45	0.368	0.469	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	26865	831.5	1	0	25.50	24.32	0.235	0.308	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	26865	831.5	36	0	24.50	23.45	0.211	0.269	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	26865	831.5	1	0	25.50	24.32	0.213	0.279	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	26865	831.5	36	0	24.50	23.45	0.198	0.252	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	26865	831.5	1	0	25.50	24.32	0.242	0.318	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	26865	831.5	36	0	24.50	23.45	0.230	0.293	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	26865	831.5	1	0	25.50	24.32	0.296	0.388	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	26865	831.5	36	0	24.50	23.45	0.268	0.341	

Note(s):

Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.11. LTE Band 7 (20MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	21350	2560.0	1	0	24.00	22.71	0.282	0.380	23
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	21350	2560.0	50	0	23.00	21.76	0.264	0.351	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	21350	2560.0	1	0	24.00	22.71	0.138	0.186	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	21350	2560.0	50	0	23.00	21.76	0.115	0.153	
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	21350	2560.0	1	0	24.00	22.71	0.265	0.357	
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	21350	2560.0	50	0	23.00	21.76	0.204	0.271	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	21350	2560.0	1	0	24.00	22.71	0.208	0.280	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	21350	2560.0	50	0	23.00	21.76	0.160	0.213	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	21350	2560.0	1	0	21.00	20.06	0.410	0.509	24
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	21350	2560.0	50	0	21.00	20.10	0.413	0.508	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	21350	2560.0	1	0	21.00	20.06	0.247	0.307	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	21350	2560.0	50	0	21.00	20.10	0.246	0.303	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	21350	2560.0	1	0	21.00	20.06	0.230	0.286	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	21350	2560.0	50	0	21.00	20.10	0.226	0.278	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	21350	2560.0	1	0	21.00	20.06	0.393	0.488	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	21350	2560.0	50	0	21.00	20.10	0.394	0.485	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	21350	2560.0	1	0	21.00	20.06	0.062	0.077	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	21350	2560.0	50	0	21.00	20.10	0.062	0.076	

Note(s):

Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.12. LTE Band 12 (10MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	23095	707.5	1	0	25.50	24.15	0.173	0.236	
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	23095	707.5	25	0	24.50	23.19	0.150	0.203	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	23095	707.5	1	0	25.50	24.15	0.094	0.128	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	23095	707.5	25	0	24.50	23.19	0.082	0.111	
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	23095	707.5	1	0	25.50	24.15	0.216	0.295	25
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	23095	707.5	25	0	24.50	23.19	0.198	0.268	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	23095	707.5	1	0	25.50	24.15	0.127	0.173	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	23095	707.5	25	0	24.50	23.19	0.112	0.151	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	23095	707.5	1	0	25.50	24.15	0.381	0.520	26
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	23095	707.5	25	0	24.50	23.19	0.371	0.502	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	23095	707.5	1	0	25.50	24.15	0.236	0.322	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	23095	707.5	25	0	24.50	23.19	0.200	0.270	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	23095	707.5	1	0	25.50	24.15	0.174	0.237	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	23095	707.5	25	0	24.50	23.19	0.143	0.193	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	23095	707.5	1	0	25.50	24.15	0.115	0.157	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	23095	707.5	25	0	24.50	23.19	0.104	0.141	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	23095	707.5	1	0	25.50	24.15	0.280	0.382	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	23095	707.5	25	0	24.50	23.19	0.231	0.312	

Note(s):

Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.13. LTE Band 13 (10MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	23230	782.0	1	0	25.00	23.65	0.178	0.243	
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	23230	782.0	25	0	24.00	22.88	0.141	0.182	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	23230	782.0	1	0	25.00	23.65	0.120	0.164	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	23230	782.0	25	0	24.00	22.88	0.099	0.128	
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	23230	782.0	1	0	25.00	23.65	0.219	0.299	27
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	23230	782.0	25	0	24.00	22.88	0.172	0.223	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	23230	782.0	1	0	25.00	23.65	0.125	0.171	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	23230	782.0	25	0	24.00	22.88	0.099	0.128	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	23230	782.0	1	0	23.50	21.92	0.321	0.462	28
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	23230	782.0	25	0	22.50	21.85	0.244	0.283	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	23230	782.0	1	0	23.50	21.92	0.238	0.342	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	23230	782.0	25	0	22.50	21.85	0.189	0.220	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	23230	782.0	1	0	23.50	21.92	0.183	0.263	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	23230	782.0	25	0	22.50	21.85	0.147	0.171	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	23230	782.0	1	0	23.50	21.92	0.179	0.258	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	23230	782.0	25	0	22.50	21.85	0.142	0.165	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	23230	782.0	1	0	23.50	21.92	0.263	0.378	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	23230	782.0	25	0	22.50	21.85	0.222	0.258	

Note(s):
Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.14. LTE Band 14 (10MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	23330	793.0	1	0	25.00	23.67	0.154	0.209	
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	23330	793.0	25	0	24.00	22.62	0.125	0.172	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	23330	793.0	1	0	25.00	23.67	0.102	0.139	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	23330	793.0	25	0	24.00	22.62	0.073	0.100	
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	23330	793.0	1	0	25.00	23.67	0.186	0.253	29
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	23330	793.0	25	0	24.00	22.62	0.153	0.210	
AG.0	Ant.A	Head	QPSK	4	0	Rightt Tilt	23330	793.0	1	0	25.00	23.67	0.121	0.164	
AG.0	Ant.A	Head	QPSK	4	0	Rightt Tilt	23330	793.0	25	0	24.00	22.62	0.093	0.128	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	23330	793.0	1	0	23.50	22.29	0.326	0.431	30
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	23330	793.0	25	0	22.50	22.28	0.258	0.271	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	23330	793.0	1	0	23.50	22.29	0.187	0.247	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	23330	793.0	25	0	22.50	22.28	0.139	0.146	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	23330	793.0	1	0	23.50	22.29	0.168	0.222	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	23330	793.0	25	0	22.50	22.28	0.122	0.128	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	23330	793.0	1	0	23.50	22.29	0.193	0.255	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	23330	793.0	25	0	22.50	22.28	0.152	0.160	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	23330	793.0	1	0	23.50	22.29	0.235	0.311	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	23330	793.0	25	0	22.50	22.28	0.172	0.181	

Note(s):
Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.15. LTE Band 30 (10MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	27710	2310.0	1	49	22.50	21.67	0.178	0.215	
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	27710	2310.0	25	25	22.50	21.75	0.201	0.239	31
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	27710	2310.0	1	49	22.50	21.67	0.112	0.136	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	27710	2310.0	25	25	22.50	21.75	0.107	0.127	
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	27710	2310.0	1	49	22.50	21.67	0.125	0.151	
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	27710	2310.0	25	25	22.50	21.75	0.115	0.137	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	27710	2310.0	1	49	22.50	21.67	0.093	0.113	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	27710	2310.0	25	25	22.50	21.75	0.090	0.107	
AG.0	Ant.A	Body worn &Hotspot	QPSK	3	10	Rear	27710	2310.0	1	25	18.50	17.37	0.304	0.394	
AG.0	Ant.A	Body worn &Hotspot	QPSK	3	10	Rear	27710	2310.0	25	0	18.50	17.25	0.361	0.481	32
AG.0	Ant.A	Body worn &Hotspot	QPSK	3	10	Front	27710	2310.0	1	25	18.50	17.37	0.313	0.406	
AG.0	Ant.A	Body worn &Hotspot	QPSK	3	10	Front	27710	2310.0	25	0	18.50	17.25	0.305	0.407	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	27710	2310.0	1	25	18.50	17.37	0.233	0.302	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	27710	2310.0	25	0	18.50	17.25	0.240	0.320	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	27710	2310.0	1	25	18.50	17.37	0.281	0.365	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	27710	2310.0	25	0	18.50	17.25	0.342	0.456	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	27710	2310.0	1	25	18.50	17.37	0.067	0.087	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	27710	2310.0	25	0	18.50	17.25	0.076	0.101	

Note(s):

Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.16. LTE Band 71 (20MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	133297	680.5	1	0	25.50	23.96	0.176	0.251	
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	133297	680.5	50	0	24.50	22.92	0.145	0.209	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	133297	680.5	1	0	25.50	23.96	0.081	0.116	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	133297	680.5	50	0	24.50	22.92	0.072	0.104	
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	133297	680.5	1	0	25.50	23.96	0.202	0.288	33
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	133297	680.5	50	0	24.50	22.92	0.164	0.236	
AG.0	Ant.A	Head	QPSK	4	0	Rightt Tilt	133297	680.5	1	0	25.50	23.96	0.108	0.154	
AG.0	Ant.A	Head	QPSK	4	0	Rightt Tilt	133297	680.5	50	0	24.50	22.92	0.089	0.127	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	133297	680.5	1	0	23.50	22.21	0.285	0.384	34
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	133297	680.5	50	0	23.50	22.15	0.243	0.332	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	133297	680.5	1	0	23.50	22.21	0.204	0.275	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	133297	680.5	50	0	23.50	22.15	0.169	0.231	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	133297	680.5	1	0	23.50	22.21	0.137	0.184	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	133297	680.5	50	0	23.50	22.15	0.104	0.142	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	133297	680.5	1	0	23.50	22.21	0.122	0.164	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	133297	680.5	50	0	23.50	22.15	0.101	0.138	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	133297	680.5	1	0	23.50	22.21	0.274	0.369	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	133297	680.5	50	0	23.50	22.15	0.254	0.347	

Note(s):

Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.17. LTE Band 41 (20MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	40620	2593.0	1	99	21.00	20.79	0.084	0.088	
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	40620	2593.0	50	50	21.00	20.71	0.087	0.093	35
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	40620	2593.0	1	99	21.00	20.79	0.024	0.025	
AG.0	Ant.A	Head	QPSK	4	0	Left Tilt	40620	2593.0	50	50	21.00	20.71	0.023	0.025	
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	40620	2593.0	1	99	21.00	20.79	0.034	0.036	
AG.0	Ant.A	Head	QPSK	4	0	Right Touch	40620	2593.0	50	50	21.00	20.71	0.030	0.032	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	40620	2593.0	1	99	21.00	20.79	0.031	0.033	
AG.0	Ant.A	Head	QPSK	4	0	Right Tilt	40620	2593.0	50	50	21.00	20.71	0.031	0.033	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	40620	2593.0	1	99	19.00	18.11	0.151	0.185	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Rear	40620	2593.0	50	50	19.00	18.08	0.155	0.192	36
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	40620	2593.0	1	99	19.00	18.11	0.082	0.101	
AG.0	Ant.A	Body worn & Hotspot	QPSK	3	10	Front	40620	2593.0	50	50	19.00	18.08	0.086	0.106	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	40620	2593.0	1	99	19.00	18.11	0.078	0.096	
AG.0	Ant.A	Hotspot	QPSK	3	10	Left	40620	2593.0	50	50	19.00	18.08	0.079	0.098	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	40620	2593.0	1	99	19.00	18.11	0.134	0.164	
AG.0	Ant.A	Hotspot	QPSK	3	10	Bottom	40620	2593.0	50	50	19.00	18.08	0.138	0.171	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	40620	2593.0	1	99	19.00	18.11	0.015	0.018	
AG.0	Ant.A	Hotspot	QPSK	3	10	Right	40620	2593.0	50	50	19.00	18.08	0.017	0.021	

LTE Band 41 Power Class 2

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	QPSK	4	0	Left Touch	40620	2593.0	50	50	23.50	22.83	0.079	0.092	
AG.0	Ant.A	Body-worn&Hotspot	QPSK	3	10	Rear	40620	2593.0	50	50	21.50	21.43	0.144	0.146	

Note(s):

1. 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. According to the highest time averaged power for UL-DL configurations, configuration # 1 with duty cycle 43.3% is used for Power Class 2 SAR test.
2. Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

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)		
Ant.A	Head	43.3	23.5	96.9	0.092	63.3	21.0	79.7	0.093	0.113	-18.7
	Body-worn & Hotspot	43.3	21.5	61.2	0.146	63.3	19.0	50.3	0.192	0.234	-37.5

Note(s):

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)

UL CA (Intraband-contiguous) 41 C test results

Antenna	RF Exposure Conditions	Mode	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	
Ant.A	Head	QPSK	0	Left Touch	40620	2593.0	50	50	40818	2612.8	50	0	21.00	19.87	0.065	0.084	
	Body-worn & Hotspot	QPSK	10	Rear	40620	2593.0	50	50	40818	2612.8	50	0	19.00	17.47	0.122	0.174	

10.18. LTE Band 48 (20MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.1	Ant.E	Head	QPSK	4	0	Left Touch	56640	3690.0	1	0	15.00	14.91	0.059	0.060	
AG.1	Ant.E	Head	QPSK	4	0	Left Touch	56640	3690.0	50	0	15.00	14.75	0.053	0.056	
AG.1	Ant.E	Head	QPSK	4	0	Left Tilt	56640	3690.0	1	0	15.00	14.91	0.046	0.047	
AG.1	Ant.E	Head	QPSK	4	0	Left Tilt	56640	3690.0	50	0	15.00	14.75	0.045	0.048	
AG.1	Ant.E	Head	QPSK	4	0	Right Touch	56640	3690.0	1	0	15.00	14.91	0.170	0.174	
AG.1	Ant.E	Head	QPSK	4	0	Right Touch	56640	3690.0	50	0	15.00	14.75	0.164	0.174	37
AG.1	Ant.E	Head	QPSK	4	0	Rightt Tilt	56640	3690.0	1	0	15.00	14.91	0.090	0.092	
AG.1	Ant.E	Head	QPSK	4	0	Rightt Tilt	56640	3690.0	50	0	15.00	14.75	0.090	0.095	
AG.1	Ant.E	Body worn & Hotspot	QPSK	3	10	Rear	56640	3690.0	1	0	15.00	14.91	0.133	0.136	
AG.1	Ant.E	Body worn & Hotspot	QPSK	3	10	Rear	56640	3690.0	50	0	15.00	14.75	0.132	0.140	38
AG.1	Ant.E	Body worn & Hotspot	QPSK	3	10	Front	56640	3690.0	1	0	15.00	14.91	0.036	0.037	
AG.1	Ant.E	Body worn & Hotspot	QPSK	3	10	Front	56640	3690.0	50	0	15.00	14.75	0.039	0.041	
AG.1	Ant.E	Hotspot	QPSK	3	10	Top	56640	3690.0	1	0	15.00	14.91	0.035	0.036	
AG.1	Ant.E	Hotspot	QPSK	3	10	Top	56640	3690.0	50	0	15.00	14.75	0.035	0.037	
AG.1	Ant.E	Hotspot	QPSK	3	10	Left	56640	3690.0	1	0	15.00	14.91	0.100	0.102	
AG.1	Ant.E	Hotspot	QPSK	3	10	Left	56640	3690.0	50	0	15.00	14.75	0.101	0.107	

UL CA (Intraband-contiguous)_48 C test results

Antenna	RF Exposure Conditions	Mode	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	
Ant.E	Head	QPSK	0	Right Touch	56640	3690.0	50	0	56442	3670.2	50	50	15.00	14.72	0.127	0.135	
	Body-worn & Hotspot	QPSK	10	Rear	56640	3690.0	50	0	56442	3670.2	50	50	15.00	14.72	0.128	0.137	

Note(s):

Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.19. NR Band n2 (40MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.1	Ant.B	Head	DFT-s OFDM QPSK	4	0	Left Touch	376000	1880.0	1	107	22.00	20.27	0.097	0.144	
AG.1	Ant.B	Head	DFT-s OFDM QPSK	4	0	Left Touch	376000	1880.0	108	54	22.00	20.27	0.101	0.150	
AG.1	Ant.B	Head	DFT-s OFDM QPSK	4	0	Left Tilt	376000	1880.0	1	107	22.00	20.27	0.054	0.080	
AG.1	Ant.B	Head	DFT-s OFDM QPSK	4	0	Left Tilt	376000	1880.0	108	54	22.00	20.27	0.056	0.083	
AG.1	Ant.B	Head	DFT-s OFDM QPSK	4	0	Right Touch	376000	1880.0	1	107	22.00	20.27	0.210	0.313	39
AG.1	Ant.B	Head	DFT-s OFDM QPSK	4	0	Right Touch	376000	1880.0	108	54	22.00	20.27	0.209	0.311	
AG.1	Ant.B	Head	DFT-s OFDM QPSK	4	0	Right Tilt	376000	1880.0	1	107	22.00	20.27	0.075	0.111	
AG.1	Ant.B	Head	DFT-s OFDM QPSK	4	0	Right Tilt	376000	1880.0	108	54	22.00	20.27	0.079	0.118	
AG.1	Ant.B	Head	CP OFDM QPSK	4	0	RightTouch	376000	1880.0	1	1	22.00	20.12	0.188	0.290	
AG.1	Ant.B	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Rear	376000	1880.0	1	107	21.00	19.23	0.391	0.588	
AG.1	Ant.B	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Rear	376000	1880.0	108	54	21.00	19.21	0.399	0.603	40
AG.1	Ant.B	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Front	376000	1880.0	1	107	21.00	19.23	0.061	0.092	
AG.1	Ant.B	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Front	376000	1880.0	108	54	21.00	19.21	0.061	0.092	
AG.1	Ant.B	Hotspot	DFT-s OFDM QPSK	3	10	Left	376000	1880.0	1	107	21.00	19.23	0.232	0.349	
AG.1	Ant.B	Hotspot	DFT-s OFDM QPSK	3	10	Left	376000	1880.0	108	54	21.00	19.21	0.225	0.340	
AG.1	Ant.B	Body worn & Hotspot	CP OFDM QPSK	3	10	Rear	376000	1880.0	1	1	21.00	19.20	0.395	0.598	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.
2. Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.20. NR Band n25 (40MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Touch	376500	1882.5	1	107	23.50	22.49	0.208	0.262	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Touch	376500	1882.5	108	54	23.50	22.45	0.215	0.274	41
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Tilt	376500	1882.5	1	107	23.50	22.49	0.197	0.249	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Tilt	376500	1882.5	108	54	23.50	22.45	0.202	0.257	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Touch	376500	1882.5	1	107	23.50	22.49	0.205	0.259	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Touch	376500	1882.5	108	54	23.50	22.45	0.206	0.262	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Tilt	376500	1882.5	1	107	23.50	22.49	0.128	0.162	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Tilt	376500	1882.5	108	54	23.50	22.45	0.132	0.168	
AG.0	Ant.A	Head	CP OFDM QPSK	4	0	LeftTouch	376500	1882.5	1	1	23.50	21.43	0.140	0.225	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Rear	376500	1882.5	1	107	21.00	19.29	0.266	0.394	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Rear	376500	1882.5	108	54	21.00	19.26	0.277	0.414	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Front	376500	1882.5	1	107	21.00	19.29	0.173	0.256	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Front	376500	1882.5	108	54	21.00	19.26	0.180	0.269	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Left	376500	1882.5	1	107	21.00	19.29	0.115	0.170	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Left	376500	1882.5	108	54	21.00	19.26	0.120	0.179	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Bottom	376500	1882.5	1	107	21.00	19.29	0.280	0.415	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Bottom	376500	1882.5	108	54	21.00	19.26	0.283	0.422	42
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Right	376500	1882.5	1	107	21.00	19.29	0.039	0.058	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Right	376500	1882.5	108	54	21.00	19.26	0.040	0.060	
AG.0	Ant.A	Hotspot	CP OFDM QPSK	3	10	Bottom	376500	1882.5	1	1	21.00	19.07	0.270	0.421	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.
2. Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.21. NR Band n5 (20MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Touch	167300	836.5	1	52	25.50	23.90	0.219	0.317	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Touch	167300	836.5	50	28	25.50	23.84	0.213	0.312	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Tilt	167300	836.5	1	52	25.50	23.90	0.145	0.210	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Tilt	167300	836.5	50	28	25.50	23.84	0.152	0.223	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Touch	167300	836.5	1	52	25.50	23.90	0.298	0.431	43
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Touch	167300	836.5	50	28	25.50	23.84	0.287	0.421	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Tilt	167300	836.5	1	52	25.50	23.90	0.144	0.208	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Tilt	167300	836.5	50	28	25.50	23.84	0.143	0.210	
AG.0	Ant.A	Head	CP OFDM QPSK	4	0	RightTouch	167300	836.5	1	1	24.00	22.40	0.184	0.266	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Rear	167300	836.5	1	52	25.50	23.90	0.440	0.636	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Rear	167300	836.5	50	28	25.50	23.84	0.454	0.665	44
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Front	167300	836.5	1	52	25.50	23.90	0.239	0.345	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Front	167300	836.5	50	28	25.50	23.84	0.243	0.356	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Left	167300	836.5	1	52	25.50	23.90	0.187	0.270	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Left	167300	836.5	50	28	25.50	23.84	0.191	0.280	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Bottom	167300	836.5	1	52	25.50	23.90	0.273	0.395	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Bottom	167300	836.5	50	28	25.50	23.84	0.287	0.421	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Right	167300	836.5	1	52	25.50	23.90	0.271	0.392	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Right	167300	836.5	50	28	25.50	23.84	0.279	0.409	
AG.0	Ant.A	Body worn & Hotspot	CP OFDM QPSK	3	10	Rear	167300	836.5	1	1	24.00	22.40	0.295	0.426	

Note(s):
1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.
2. Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.22. NR Band n30 (10MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	DFT-s-OFDM-QPSK	4	0	Left Touch	462000	2310.0	1	50	22.50	20.99	0.200	0.283	
AG.0	Ant.A	Head	DFT-s-OFDM-QPSK	4	0	Left Touch	462000	2310.0	25	13	22.50	20.96	0.227	0.324	45
AG.0	Ant.A	Head	DFT-s-OFDM-QPSK	4	0	Left Tilt	462000	2310.0	1	50	22.50	20.99	0.105	0.149	
AG.0	Ant.A	Head	DFT-s-OFDM-QPSK	4	0	Left Tilt	462000	2310.0	25	13	22.50	20.96	0.108	0.154	
AG.0	Ant.A	Head	DFT-s-OFDM-QPSK	4	0	Right Touch	462000	2310.0	1	50	22.50	20.99	0.076	0.108	
AG.0	Ant.A	Head	DFT-s-OFDM-QPSK	4	0	Right Touch	462000	2310.0	25	13	22.50	20.96	0.079	0.113	
AG.0	Ant.A	Head	DFT-s-OFDM-QPSK	4	0	Rightt Tilt	462000	2310.0	1	50	22.50	20.99	0.070	0.099	
AG.0	Ant.A	Head	DFT-s-OFDM-QPSK	4	0	Rightt Tilt	462000	2310.0	25	13	22.50	20.96	0.074	0.105	
AG.0	Ant.A	Head	CP OFDM-QPSK	4	0	Left Touch	462000	2310.0	1	1	21.00	20.91	0.222	0.227	
AG.0	Ant.A	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Rear	462000	2310.0	1	50	21.00	19.82	0.303	0.398	
AG.0	Ant.A	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Rear	462000	2310.0	25	13	21.00	19.78	0.305	0.404	46
AG.0	Ant.A	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Front	462000	2310.0	1	50	21.00	19.82	0.216	0.283	
AG.0	Ant.A	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Front	462000	2310.0	25	13	21.00	19.78	0.220	0.291	
AG.0	Ant.A	Hotspot	DFT-s-OFDM-QPSK	3	10	Left	462000	2310.0	1	50	21.00	19.82	0.219	0.287	
AG.0	Ant.A	Hotspot	DFT-s-OFDM-QPSK	3	10	Left	462000	2310.0	25	13	21.00	19.78	0.221	0.293	
AG.0	Ant.A	Hotspot	DFT-s-OFDM-QPSK	3	10	Bottom	462000	2310.0	1	50	21.00	19.82	0.200	0.262	
AG.0	Ant.A	Hotspot	DFT-s-OFDM-QPSK	3	10	Bottom	462000	2310.0	25	13	21.00	19.78	0.250	0.331	
AG.0	Ant.A	Hotspot	DFT-s-OFDM-QPSK	3	10	Right	462000	2310.0	1	50	21.00	19.82	0.043	0.056	
AG.0	Ant.A	Hotspot	DFT-s-OFDM-QPSK	3	10	Right	462000	2310.0	25	13	21.00	19.78	0.045	0.060	
AG.0	Ant.A	Body worn & Hotspot	CP OFDM-QPSK	3	10	Rear	462000	2310.0	1	1	21.00	19.77	0.296	0.393	

Note(s):
1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.
2. Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.23. NR Band n41 (100MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	DFT-s-OFDM-QPSK	4	0	Left Touch	518598	2593.0	1	136	16.00	15.66	0.081	0.088	47
AG.0	Ant.A	Head	DFT-s-OFDM-QPSK	4	0	Left Touch	518598	2593.0	135	69	16.00	15.63	0.078	0.085	
AG.0	Ant.A	Head	DFT-s-OFDM-QPSK	4	0	Left Tilt	518598	2593.0	1	136	16.00	15.66	0.021	0.023	
AG.0	Ant.A	Head	DFT-s-OFDM-QPSK	4	0	Left Tilt	518598	2593.0	135	69	16.00	15.63	0.017	0.019	
AG.0	Ant.A	Head	DFT-s-OFDM-QPSK	4	0	Right Touch	518598	2593.0	1	136	16.00	15.66	0.028	0.030	
AG.0	Ant.A	Head	DFT-s-OFDM-QPSK	4	0	Right Touch	518598	2593.0	135	69	16.00	15.63	0.029	0.032	
AG.0	Ant.A	Head	DFT-s-OFDM-QPSK	4	0	Right Tilt	518598	2593.0	1	136	16.00	15.66	0.030	0.032	
AG.0	Ant.A	Head	DFT-s-OFDM-QPSK	4	0	Right Tilt	518598	2593.0	135	69	16.00	15.63	0.030	0.033	
AG.0	Ant.A	Head	CP OFDM-QPSK	4	0	LeftTouch	518598	2593.0	1	1	16.00	15.66	0.067	0.072	
AG.0	Ant.A	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Rear	518598	2593.0	1	136	18.00	17.65	0.145	0.157	48
AG.0	Ant.A	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Rear	518598	2593.0	135	69	18.00	17.59	0.140	0.154	
AG.0	Ant.A	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Front	518598	2593.0	1	136	18.00	17.65	0.087	0.094	
AG.0	Ant.A	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Front	518598	2593.0	135	69	18.00	17.59	0.084	0.092	
AG.0	Ant.A	Hotspot	DFT-s-OFDM-QPSK	3	10	Left	518598	2593.0	1	136	18.00	17.65	0.090	0.098	
AG.0	Ant.A	Hotspot	DFT-s-OFDM-QPSK	3	10	Left	518598	2593.0	135	69	18.00	17.59	0.084	0.092	
AG.0	Ant.A	Hotspot	DFT-s-OFDM-QPSK	3	10	Bottom	518598	2593.0	1	136	18.00	17.65	0.115	0.125	
AG.0	Ant.A	Hotspot	DFT-s-OFDM-QPSK	3	10	Bottom	518598	2593.0	135	69	18.00	17.59	0.126	0.138	
AG.0	Ant.A	Hotspot	DFT-s-OFDM-QPSK	3	10	Right	518598	2593.0	1	136	18.00	17.65	0.022	0.024	
AG.0	Ant.A	Hotspot	DFT-s-OFDM-QPSK	3	10	Right	518598	2593.0	135	69	18.00	17.59	0.017	0.019	
AG.0	Ant.A	Body worn & Hotspot	CP OFDM-QPSK	3	10	Bottom	518598	2593.0	1	1	18.00	17.62	0.105	0.115	

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.
3. Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.24. NR Band n48 (Voice/data/SRS0) (40MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Left Touch	645332	3680.0	1	104	15.00	14.50	0.130	0.146	
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Left Touch	645332	3680.0	50	56	15.00	14.56	0.113	0.125	
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Left Tilt	645332	3680.0	1	104	15.00	14.50	0.104	0.117	
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Left Tilt	645332	3680.0	50	56	15.00	14.56	0.088	0.097	
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Right Touch	645332	3680.0	1	104	15.00	14.50	0.500	0.561	
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Right Touch	645332	3680.0	50	56	15.00	14.56	0.508	0.562	49
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Rightt Tilt	645332	3680.0	1	104	15.00	14.50	0.239	0.268	
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Rightt Tilt	645332	3680.0	50	56	15.00	14.56	0.223	0.247	
AG.1	Ant.E	Head	CP OFDM-QPSK	4	0	Right Touch	645332	3680.0	1	1	15.00	13.53	0.288	0.404	
AG.1	Ant.E	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Rear	645332	3680.0	1	104	15.00	14.50	0.488	0.548	50
AG.1	Ant.E	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Rear	645332	3680.0	50	56	15.00	14.56	0.414	0.458	
AG.1	Ant.E	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Front	645332	3680.0	1	104	15.00	14.50	0.087	0.098	
AG.1	Ant.E	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Front	645332	3680.0	50	56	15.00	14.56	0.081	0.090	
AG.1	Ant.E	Hotspot	DFT-s-OFDM-QPSK	3	10	Top	645332	3680.0	1	104	15.00	14.50	0.085	0.095	
AG.1	Ant.E	Hotspot	DFT-s-OFDM-QPSK	3	10	Top	645332	3680.0	50	56	15.00	14.56	0.084	0.093	
AG.1	Ant.E	Hotspot	DFT-s-OFDM-QPSK	3	10	Left	645332	3680.0	1	104	15.00	14.50	0.252	0.283	
AG.1	Ant.E	Hotspot	DFT-s-OFDM-QPSK	3	10	Left	645332	3680.0	50	56	15.00	14.56	0.260	0.288	
AG.1	Ant.E	Body worn & Hotspot	CP OFDM-QPSK	3	10	Rear	645332	3680.0	1	1	15.00	14.18	0.220	0.309	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.
2. NR Band n48(Voice/data/SRS0) tested using FTM mode.
3. Body worn (RSI=0)'s power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.25. NR Band n48 (SRS1/SRS2/SRS3) (40MHz Bandwidth)

NR Band n48 (SRS1)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.1	Ant.G	Head	SRS CW	4	0	Left Touch	645332	3680.0	15.00	14.21	0.466	0.559	51
AG.1	Ant.G	Head	SRS CW	4	0	Left Tilt	645332	3680.0	15.00	14.21	0.465	0.558	
AG.1	Ant.G	Head	SRS CW	4	0	Right Touch	645332	3680.0	15.00	14.21	0.296	0.355	
AG.1	Ant.G	Head	SRS CW	4	0	Rightt Tilt	645332	3680.0	15.00	14.21	0.177	0.212	
AG.1	Ant.G	Body worn & Hotspot	SRS CW	3	10	Rear	645332	3680.0	15.00	14.21	0.330	0.396	52
AG.1	Ant.G	Body worn & Hotspot	SRS CW	3	10	Front	645332	3680.0	15.00	14.21	0.132	0.158	
AG.1	Ant.G	Hotspot	SRS CW	3	10	Top	645332	3680.0	15.00	14.21	0.288	0.345	

NR Band n48 (SRS2)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.1	Ant.D	Head	SRS CW	4	0	Left Touch	645332	3680.0	15.00	13.87	0.126	0.163	
AG.1	Ant.D	Head	SRS CW	4	0	Left Tilt	645332	3680.0	15.00	13.87	0.118	0.153	
AG.1	Ant.D	Head	SRS CW	4	0	Right Touch	645332	3680.0	15.00	13.87	0.228	0.296	
AG.1	Ant.D	Head	SRS CW	4	0	Rightt Tilt	645332	3680.0	15.00	13.87	0.211	0.274	
AG.1	Ant.D	Body worn & Hotspot	SRS CW	3	10	Rear	645332	3680.0	15.00	13.87	0.070	0.091	
AG.1	Ant.D	Body worn & Hotspot	SRS CW	3	10	Front	645332	3680.0	15.00	13.87	0.037	0.048	
AG.1	Ant.D	Hotspot	SRS CW	3	10	Top	645332	3680.0	15.00	13.87	0.031	0.040	
AG.1	Ant.D	Hotspot	SRS CW	3	10	Left	645332	3680.0	15.00	13.87	0.024	0.031	

NR Band n48 (SRS3)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.1	Ant.F	Head	SRS CW	4	0	Left Touch	645332	3680.0	15.00	13.76	0.223	0.297	
AG.1	Ant.F	Head	SRS CW	4	0	Left Tilt	645332	3680.0	15.00	13.76	0.122	0.162	
AG.1	Ant.F	Head	SRS CW	4	0	Right Touch	645332	3680.0	15.00	13.76	0.053	0.071	
AG.1	Ant.F	Head	SRS CW	4	0	Rightt Tilt	645332	3680.0	15.00	13.76	0.035	0.047	
AG.1	Ant.F	Body worn & Hotspot	SRS CW	3	10	Rear	645332	3680.0	15.00	13.76	0.138	0.184	
AG.1	Ant.F	Body worn & Hotspot	SRS CW	3	10	Front	645332	3680.0	15.00	13.76	0.048	0.064	
AG.1	Ant.F	Hotspot	SRS CW	3	10	Top	645332	3680.0	15.00	13.76	0.016	0.021	
AG.1	Ant.F	Hotspot	SRS CW	3	10	Right	645332	3680.0	15.00	13.76	0.117	0.156	

Note(s):

1. NR Band n48(SRS1/SRS2/SRS3) tested using FTM mode.
2. Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.26. NR Band n66 (40MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Touch	349000	1745.0	1	107	23.50	21.94	0.166	0.238	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Touch	349000	1745.0	108	54	23.50	21.82	0.170	0.250	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Tilt	349000	1745.0	1	107	23.50	21.94	0.165	0.236	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Tilt	349000	1745.0	108	54	23.50	21.82	0.162	0.239	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Touch	349000	1745.0	1	107	23.50	21.94	0.181	0.259	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Touch	349000	1745.0	108	54	23.50	21.82	0.185	0.272	53
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Tilt	349000	1745.0	1	107	23.50	21.94	0.141	0.202	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Tilt	349000	1745.0	108	54	23.50	21.82	0.143	0.211	
AG.0	Ant.A	Head	CP OFDM QPSK	4	0	Right Touch	349000	1745.0	1	1	23.50	21.49	0.174	0.246	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Rear	349000	1745.0	1	107	20.00	18.83	0.231	0.302	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Rear	349000	1745.0	108	54	20.00	18.82	0.239	0.314	54
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Front	349000	1745.0	1	107	20.00	18.83	0.117	0.153	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Front	349000	1745.0	108	54	20.00	18.82	0.122	0.160	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Left	349000	1745.0	1	107	20.00	18.83	0.103	0.135	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Left	349000	1745.0	108	54	20.00	18.82	0.107	0.140	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Bottom	349000	1745.0	1	107	20.00	18.83	0.183	0.240	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Bottom	349000	1745.0	108	54	20.00	18.82	0.191	0.251	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Right	349000	1745.0	1	107	20.00	18.83	0.063	0.083	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Right	349000	1745.0	108	54	20.00	18.82	0.065	0.085	
AG.0	Ant.A	Body worn & Hotspot	CP OFDM QPSK	3	10	Rear	349000	1745.0	1	1	20.00	18.81	0.233	0.306	

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.1	Ant.B	Head	DFT-s OFDM QPSK	4	0	Left Touch	349000	1745.0	1	107	21.00	19.14	0.143	0.219	55
AG.1	Ant.B	Head	DFT-s OFDM QPSK	4	0	Left Touch	349000	1745.0	108	54	21.00	19.12	0.125	0.193	
AG.1	Ant.B	Head	DFT-s OFDM QPSK	4	0	Left Tilt	349000	1745.0	1	107	21.00	19.14	0.076	0.116	
AG.1	Ant.B	Head	DFT-s OFDM QPSK	4	0	Left Tilt	349000	1745.0	108	54	21.00	19.12	0.076	0.118	
AG.1	Ant.B	Head	DFT-s OFDM QPSK	4	0	Right Touch	349000	1745.0	1	107	21.00	19.14	0.113	0.173	
AG.1	Ant.B	Head	DFT-s OFDM QPSK	4	0	Right Touch	349000	1745.0	108	54	21.00	19.12	0.115	0.177	
AG.1	Ant.B	Head	DFT-s OFDM QPSK	4	0	Right Tilt	349000	1745.0	1	107	21.00	19.14	0.088	0.136	
AG.1	Ant.B	Head	DFT-s OFDM QPSK	4	0	Right Tilt	349000	1745.0	108	54	21.00	19.12	0.089	0.137	
AG.1	Ant.B	Head	CP OFDM QPSK	4	0	Left Touch	349000	1745.0	1	1	21.00	19.15	0.135	0.207	
AG.1	Ant.B	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Rear	349000	1745.0	1	107	21.00	19.14	0.243	0.373	
AG.1	Ant.B	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Rear	349000	1745.0	108	54	21.00	19.12	0.218	0.336	
AG.1	Ant.B	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Front	349000	1745.0	1	107	21.00	19.14	0.145	0.223	
AG.1	Ant.B	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Front	349000	1745.0	108	54	21.00	19.12	0.145	0.224	
AG.1	Ant.B	Hotspot	DFT-s OFDM QPSK	3	10	Left	349000	1745.0	1	107	21.00	19.14	0.297	0.456	
AG.1	Ant.B	Hotspot	DFT-s OFDM QPSK	3	10	Left	349000	1745.0	108	54	21.00	19.12	0.303	0.467	56
AG.1	Ant.B	Hotspot	CP OFDM QPSK	3	10	Left	349000	1745.0	1	1	21.00	19.15	0.190	0.291	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.
2. Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.27. NR Band n70 (15MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Touch	340500	1702.5	1	77	25.50	23.98	0.191	0.271	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Touch	340500	1702.5	36	21	25.50	24.07	0.190	0.264	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Tilt	340500	1702.5	1	77	25.50	23.98	0.177	0.251	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Tilt	340500	1702.5	36	21	25.50	24.07	0.178	0.247	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Touch	340500	1702.5	1	77	25.50	23.98	0.251	0.356	57
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Touch	340500	1702.5	36	21	25.50	24.07	0.241	0.335	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Rightt Tilt	340500	1702.5	1	77	25.50	23.98	0.165	0.234	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Rightt Tilt	340500	1702.5	36	21	25.50	24.07	0.166	0.231	
AG.0	Ant.A	Head	CP OFDM QPSK	4	0	RightTouch	340500	1702.5	1	1	24.00	22.51	0.181	0.255	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Rear	340500	1702.5	1	77	21.00	19.93	0.340	0.435	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Rear	340500	1702.5	36	21	21.00	19.97	0.361	0.458	58
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Front	340500	1702.5	1	77	21.00	19.93	0.205	0.262	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Front	340500	1702.5	36	21	21.00	19.97	0.219	0.278	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Left	340500	1702.5	1	77	21.00	19.93	0.138	0.177	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Left	340500	1702.5	36	21	21.00	19.97	0.135	0.171	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Bottom	340500	1702.5	1	77	21.00	19.93	0.337	0.431	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Bottom	340500	1702.5	36	21	21.00	19.97	0.348	0.441	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Right	340500	1702.5	1	77	21.00	19.93	0.099	0.127	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Right	340500	1702.5	36	21	21.00	19.97	0.103	0.131	
AG.0	Ant.A	Body worn & Hotspot	CP OFDM QPSK	3	10	Rear	340500	1702.5	1	1	20.00	19.90	0.353	0.361	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.
2. Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.28. Band n71 (20MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Touch	136100	680.5	1	52	25.50	24.57	0.124	0.154	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Touch	136100	680.5	50	28	25.50	24.50	0.125	0.157	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Tilt	136100	680.5	1	52	25.50	24.57	0.074	0.092	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Left Tilt	136100	680.5	50	28	25.50	24.50	0.074	0.093	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Touch	136100	680.5	1	52	25.50	24.57	0.129	0.160	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Touch	136100	680.5	50	28	25.50	24.50	0.134	0.169	59
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Tilt	136100	680.5	1	52	25.50	24.57	0.077	0.095	
AG.0	Ant.A	Head	DFT-s OFDM QPSK	4	0	Right Tilt	136100	680.5	50	28	25.50	24.50	0.079	0.099	
AG.0	Ant.A	Head	CP OFDM QPSK	4	0	Right Touch	136100	680.5	1	1	24.00	23.25	0.102	0.121	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Rear	136100	680.5	1	52	25.50	24.57	0.211	0.261	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Rear	136100	680.5	50	28	25.50	24.50	0.215	0.271	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Front	136100	680.5	1	52	25.50	24.57	0.149	0.185	
AG.0	Ant.A	Body worn & Hotspot	DFT-s OFDM QPSK	3	10	Front	136100	680.5	50	28	25.50	24.50	0.152	0.191	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Left	136100	680.5	1	52	25.50	24.57	0.130	0.161	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Left	136100	680.5	50	28	25.50	24.50	0.141	0.178	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Bottom	136100	680.5	1	52	25.50	24.57	0.114	0.141	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Bottom	136100	680.5	50	28	25.50	24.50	0.090	0.113	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Right	136100	680.5	1	52	25.50	24.57	0.256	0.317	
AG.0	Ant.A	Hotspot	DFT-s OFDM QPSK	3	10	Right	136100	680.5	50	28	25.50	24.50	0.276	0.347	60
AG.0	Ant.A	Body worn & Hotspot	CP OFDM QPSK	3	10	Right	136100	680.5	1	1	24.00	23.25	0.196	0.233	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.
2. Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.29. NR Band n77 (Voice/data/SRS0) (100MHz Bandwidth)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Left Touch	662000	3930.0	1	136	15.00	13.90	0.045	0.058	
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Left Touch	662000	3930.0	135	138	15.00	13.97	0.030	0.038	
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Left Tilt	662000	3930.0	1	136	15.00	13.90	0.043	0.055	
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Left Tilt	662000	3930.0	135	138	15.00	13.97	0.025	0.032	
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Right Touch	633334	3500.0	1	136	15.00	14.15	0.100	0.122	
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Right Touch	633334	3500.0	135	138	15.00	14.14	0.092	0.112	
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Right Touch	662000	3930.0	1	136	15.00	13.90	0.166	0.214	61
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Right Touch	662000	3930.0	135	138	15.00	13.97	0.140	0.177	
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Right Tilt	662000	3930.0	1	136	15.00	13.90	0.109	0.140	
AG.1	Ant.E	Head	DFT-s-OFDM-QPSK	4	0	Right Tilt	662000	3930.0	135	138	15.00	13.97	0.085	0.108	
AG.1	Ant.E	Head	CP OFDM-QPSK	4	0	RightTouch	662000	3930.0	1	1	15.00	14.15	0.123	0.150	
AG.1	Ant.E	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Rear	633334	3500.0	1	136	15.00	14.15	0.099	0.120	
AG.1	Ant.E	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Rear	633334	3500.0	135	138	15.00	14.14	0.098	0.119	
AG.1	Ant.E	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Rear	662000	3930.0	1	136	15.00	13.90	0.248	0.319	62
AG.1	Ant.E	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Rear	662000	3930.0	135	138	15.00	13.97	0.237	0.300	
AG.1	Ant.E	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Front	662000	3930.0	1	136	15.00	13.90	0.043	0.055	
AG.1	Ant.E	Body worn & Hotspot	DFT-s-OFDM-QPSK	3	10	Front	662000	3930.0	135	138	15.00	13.97	0.039	0.049	
AG.1	Ant.E	Hotspot	DFT-s-OFDM-QPSK	3	10	Top	662000	3930.0	1	136	15.00	13.90	0.039	0.050	
AG.1	Ant.E	Hotspot	DFT-s-OFDM-QPSK	3	10	Top	662000	3930.0	135	138	15.00	13.97	0.036	0.046	
AG.1	Ant.E	Hotspot	DFT-s-OFDM-QPSK	3	10	Left	662000	3930.0	1	136	15.00	13.90	0.118	0.152	
AG.1	Ant.E	Hotspot	DFT-s-OFDM-QPSK	3	10	Left	662000	3930.0	135	138	15.00	13.97	0.107	0.136	
AG.1	Ant.E	Hotspot	CP OFDM-QPSK	3	10	Rear	662000	3930.0	1	1	15.00	14.15	0.150	0.182	

Note(s):

1. CP-OFDM mode were evaluated at worst configuration of DFT-s-OFDM in standalone exposure conditions.
2. NR Band n77(Voice/data/SRS0) tested using FTM mode.
3. Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

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

NR Band n77 (SRS1)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.1	Ant.G	Head	SRS CW	4	0	Left Touch	650000	3750.0	15.00	14.28	0.261	0.308	
AG.1	Ant.G	Head	SRS CW	4	0	Left Tilt	633334	3500.0	15.00	14.18	0.354	0.428	63
AG.1	Ant.G	Head	SRS CW	4	0	Left Tilt	650000	3750.0	15.00	14.28	0.315	0.372	
AG.1	Ant.G	Head	SRS CW	4	0	Right Touch	650000	3750.0	15.00	14.28	0.271	0.320	
AG.1	Ant.G	Head	SRS CW	4	0	Right Tilt	650000	3750.0	15.00	14.28	0.248	0.293	
AG.1	Ant.G	Body worn & Hotspot	SRS CW	3	10	Rear	650000	3750.0	15.00	14.28	0.173	0.204	
AG.1	Ant.G	Body worn & Hotspot	SRS CW	3	10	Front	650000	3750.0	15.00	14.28	0.074	0.087	
AG.1	Ant.G	Hotspot	SRS CW	3	10	Top	633334	3500.0	15.00	14.18	0.162	0.196	
AG.1	Ant.G	Hotspot	SRS CW	3	10	Top	650000	3750.0	15.00	14.28	0.174	0.205	64

NR Band n77 (SRS2)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.1	Ant.D	Head	SRS CW	4	0	Left Touch	650000	3750.0	15.00	14.63	0.176	0.192	
AG.1	Ant.D	Head	SRS CW	4	0	Left Tilt	650000	3750.0	15.00	14.63	0.170	0.185	
AG.1	Ant.D	Head	SRS CW	4	0	Right Touch	633334	3500.0	15.00	14.11	0.085	0.104	
AG.1	Ant.D	Head	SRS CW	4	0	Right Touch	650000	3750.0	15.00	14.63	0.331	0.360	
AG.1	Ant.D	Head	SRS CW	4	0	Right Tilt	650000	3750.0	15.00	14.63	0.270	0.294	
AG.1	Ant.D	Body worn & Hotspot	SRS CW	3	10	Rear	650000	3750.0	15.00	14.63	0.051	0.056	
AG.1	Ant.D	Body worn & Hotspot	SRS CW	3	10	Front	633334	3500.0	15.00	14.11	0.011	0.014	
AG.1	Ant.D	Body worn & Hotspot	SRS CW	3	10	Front	650000	3750.0	15.00	14.63	0.064	0.070	
AG.1	Ant.D	Hotspot	SRS CW	3	10	Top	650000	3750.0	15.00	14.63	0.052	0.057	
AG.1	Ant.D	Hotspot	SRS CW	3	10	Left	650000	3750.0	15.00	14.63	0.017	0.019	

NR Band n77 (SRS3)

Antenna Group	Antenna	RF Exposure Condition	Mode	RSI	Dist (mm)	Test Position	Channel	Freq. (MHz)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
AG.1	Ant.F	Head	SRS CW	4	0	Left Touch	633334	3500.0	15.00	14.21	0.033	0.040	
AG.1	Ant.F	Head	SRS CW	4	0	Left Touch	650000	3750.0	15.00	14.04	0.177	0.221	
AG.1	Ant.F	Head	SRS CW	4	0	Left Tilt	650000	3750.0	15.00	14.04	0.095	0.119	
AG.1	Ant.F	Head	SRS CW	4	0	Right Touch	650000	3750.0	15.00	14.04	0.044	0.055	
AG.1	Ant.F	Head	SRS CW	4	0	Right Tilt	650000	3750.0	15.00	14.04	0.017	0.021	
AG.1	Ant.F	Body worn & Hotspot	SRS CW	3	10	Rear	633334	3500.0	15.00	14.21	0.050	0.060	
AG.1	Ant.F	Body worn & Hotspot	SRS CW	3	10	Rear	650000	3750.0	15.00	14.04	0.141	0.176	
AG.1	Ant.F	Body worn & Hotspot	SRS CW	3	10	Front	650000	3750.0	15.00	14.04	0.025	0.031	
AG.1	Ant.F	Hotspot	SRS CW	3	10	Top	650000	3750.0	15.00	14.04	0.011	0.014	
AG.1	Ant.F	Hotspot	SRS CW	3	10	Right	650000	3750.0	15.00	14.04	0.117	0.146	

Note(s):

1. NR Band n77(SRS1/SRS2/SRS3) tested using FTM mode.
2. Body worn (RSI=0) power and distance are the same as Hotspot (RSI=3). So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.31. Wi-Fi (DTS Band)

DTS SISO SAR results

Antenna	RF Exposure Condition	Mode	Back off	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Note	Plot No.
Ant.D	Head	802.11b 1Mbps	ON	0	Left Touch	6	2437.0	0.151	98.9	12.00	11.46				
Ant.D	Head	802.11b 1Mbps	ON	0	Left Tilt	6	2437.0	0.177	98.9	12.00	11.46	0.140	0.160	1	65
Ant.D	Head	802.11b 1Mbps	ON	0	Right Touch	6	2437.0	0.132	98.9	12.00	11.46				
Ant.D	Head	802.11b 1Mbps	ON	0	Right Tilt	6	2437.0	0.175	98.9	12.00	11.46				
Ant.D	Body worn& Hotspot	802.11b 1Mbps	OFF	10	Rear	11	2462.0	0.820	98.9	21.00	20.26	0.534	0.640		66
Ant.D	Body worn& Hotspot	802.11b 1Mbps	OFF	10	Front	11	2462.0	0.260	98.9	21.00	20.26				
Ant.D	Hotsopt	802.11b 1Mbps	OFF	10	Top	11	2462.0	0.454	98.9	21.00	20.26	0.304	0.364	2	
Ant.D	Hotsopt	802.11b 1Mbps	OFF	10	Left	11	2462.0	0.069	98.9	21.00	20.26				

Note(s):

1. When the Highest reported SAR is ≤ 0.4 or 1.0 W/kg (1-g or 10-g respectively). Therefore, further SAR measurements within this exposure condition are not required.
2. Highest reported SAR is > 0.4 or 1.0 W/kg (1-g or 10-g respectively). Due to the highest reported SAR for this test position, other test positions in this exposure condition were evaluated until a SAR ≤ 0.8 or 2.0 W/kg (1-g or 10-g respectively) was reported.
3. 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).
4. Body worn power and distance are the same as Hotspot. So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.32. Wi-Fi (U-NII Bands)

U-NII 2A SAR results

Antenna	RF Exposure Condition	Mode	Back off	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Note	Plot No.
Ant.D	Head	802.11ac MCS0	ON	0	Left Touch	58	5290.0	0.202	92.2	11	10.33				
Ant.D	Head	802.11ac MCS0	ON	0	Left Tilt	58	5290.0	0.241	92.2	11	10.33				
Ant.D	Head	802.11ac MCS0	ON	0	Right Touch	58	5290.0	0.256	92.2	11	10.33				
Ant.D	Head	802.11ac MCS0	ON	0	Right Tilt	58	5290.0	0.328	92.2	11	10.33	0.129	0.163	1	67
Ant.D	Body worn	802.11a 6Mbps	OFF	10	Rear	60	5300.0	1.431	96.8	16	15.44	0.676	0.794	3	
Ant.D	Body worn	802.11a 6Mbps	OFF	10	Rear	64	5320.0	1.581	96.8	16	15.47	0.699	0.815		68
Ant.D	Body worn	802.11a 6Mbps	OFF	10	Front	64	5320.0	0.232	96.8	16	15.47	0.117	0.136	2	

Antenna	RF Exposure Condition	Mode	Back off	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 10g (W/kg)	Reported. 10g (W/kg)	Note	Plot No.
Ant.D	Product specific 10-g SAR	802.11a 6Mbps	OFF	0	Rear	64	5320.0	12.482	96.8	16.00	15.47	1.210	1.412	2	69
Ant.D	Product specific 10-g SAR	802.11a 6Mbps	OFF	0	Front	64	5320.0	1.817	96.8	16.00	15.47				
Ant.D	Product specific 10-g SAR	802.11a 6Mbps	OFF	0	Top	64	5320.0	14.561	96.8	16.00	15.47	1.140	1.330		
Ant.D	Product specific 10-g SAR	802.11a 6Mbps	OFF	0	Left	64	5320.0	0.256	96.8	16.00	15.47				

Note(s):

1. When the Highest reported SAR is ≤ 0.4 or 1.0 W/kg (1-g or 10-g respectively). Therefore, further SAR measurements within this exposure condition are not required.
2. Highest reported SAR is > 0.4 or 1.0 W/kg (1-g or 10-g respectively). Due to the highest reported SAR for this test position, other test positions in this exposure condition were evaluated until a SAR ≤ 0.8 or 2.0 W/kg (1-g or 10-g respectively) was reported.
3. 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).
4. Additional testing required in order satisfying FCC simultaneous transmission limit criteria.
5. Body worn power and distance are the same as Hotspot. So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

U-NII 2C SAR results

Antenna	RF Exposure Condition	Mode	Back off	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Note	Plot No.
Ant.D	Head	802.11ac MCS0	ON	0	Left Touch	106	5530.0	0.406	92.2	11.00	10.46				
Ant.D	Head	802.11ac MCS0	ON	0	Left Tilt	106	5530.0	0.513	92.2	11.00	10.46				
Ant.D	Head	802.11ac MCS0	ON	0	Right Touch	106	5530.0	0.513	92.2	11.00	10.46				
Ant.D	Head	802.11ac MCS0	ON	0	Right Tilt	106	5530.0	0.632	92.2	11.00	10.46	0.253	0.311	1	70
Ant.D	Body worn	802.11a 6Mbps	OFF	10	Rear	144	5720.0	1.341	96.8	15.00	14.58	0.664	0.755		71
Ant.D	Body worn	802.11a 6Mbps	OFF	10	Front	144	5720.0	0.549	96.8	15.00	14.58	0.245	0.279	2	
Antenna	**RF Exposure Condition**	**Mode**	**Back off**	**Dist (mm)**	**Test Position**	**Channel**	**Freq. (MHz)**	**Area Scan Max. SAR (W/kg)**	**Duty Cycle (%)**	**Tune-up Limit (dBm)**	**Meas. (dBm)**	**Meas. 10g (W/kg)**	**Reported. 10g (W/kg)**	**Note**	**Plot No.**
Ant.D	Product specific 10-g SAR	802.11a 6Mbps	OFF	0	Rear	144	5720.0	16.648	96.8	15.00	14.58	1.750	1.991		72
Ant.D	Product specific 10-g SAR	802.11a 6Mbps	OFF	0	Front	144	5720.0	2.934	96.8	15.00	14.58				
Ant.D	Product specific 10-g SAR	802.11a 6Mbps	OFF	0	Top	144	5720.0	14.044	96.8	15.00	14.58	1.640	1.865	2	
Ant.D	Product specific 10-g SAR	802.11a 6Mbps	OFF	0	Left	144	5720.0	0.813	96.8	15.00	14.58				

Note(s):

1. When the Highest reported SAR is ≤ 0.4 or 1.0 W/kg (1-g or 10-g respectively). Therefore, further SAR measurements within this exposure condition are not required.
2. Highest reported SAR is > 0.4 or 1.0 W/kg (1-g or 10-g respectively). Due to the highest reported SAR for this test position, other test positions in this exposure condition were evaluated until a SAR ≤ 0.8 or 2.0 W/kg (1-g or 10-g respectively) was reported.
3. 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).
4. Additional testing required in order satisfying FCC simultaneous transmission limit criteria.
5. Body worn power and distance are the same as Hotspot. So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

U-NII 3 SAR results

Antenna	RF Exposure Condition	Mode	Back off	Dist (mm)	Test Position	Channel	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Note	Plot No.
Ant.D	Head	802.11ac MCS0	ON	0	Left Touch	155	5775.0	0.523	92.2	11.00	10.46	0.213	0.262	4	
Ant.D	Head	802.11ac MCS0	ON	0	Left Tilt	155	5775.0	0.640	92.2	11.00	10.46	0.301	0.370	1	73
Ant.D	Head	802.11ac MCS0	ON	0	Right Touch	155	5775.0	0.414	92.2	11.00	10.46				
Ant.D	Head	802.11ac MCS0	ON	0	Right Tilt	155	5775.0	0.595	92.2	11.00	10.46				
Ant.D	Body worn& Hotspot	802.11a 6Mbps	OFF	10	Rear	149	5745.0	1.467	96.8	16.00	15.51	0.728	0.842	2	
Ant.D	Body worn& Hotspot	802.11a 6Mbps	OFF	10	Rear	157	5785.0	1.610	96.8	16.00	15.27	0.703	0.859	3	
Ant.D	Body worn& Hotspot	802.11a 6Mbps	OFF	10	Front	149	5745.0	0.584	96.8	16.00	15.51				
Ant.D	Hotsopt	802.11a 6Mbps	OFF	10	Top	149	5745.0	1.494	96.8	16.00	15.51	0.748	0.865		74
Ant.D	Hotsopt	802.11a 6Mbps	OFF	10	Top	157	5785.0	1.455	96.8	16.00	15.27	0.706	0.862	3	
Ant.D	Hotsopt	802.11a 6Mbps	OFF	10	Left	149	5745.0	0.197	96.8	16.00	15.51	0.090	0.104	4	

Note(s):

1. When the Highest reported SAR is ≤ 0.4 or 1.0 W/kg (1-g or 10-g respectively). Therefore, further SAR measurements within this exposure condition are not required.
2. Highest reported SAR is > 0.4 or 1.0 W/kg (1-g or 10-g respectively). Due to the highest reported SAR for this test position, other test positions in this exposure condition were evaluated until a SAR ≤ 0.8 or 2.0 W/kg (1-g or 10-g respectively) was reported.
3. 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).
4. Additional testing required in order satisfying FCC simultaneous transmission limit criteria.
5. Body worn power and distance are the same as Hotspot. So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.33. Bluetooth

Antenna	RF Exposure Condition	Mode	Back off	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Tune-up Limit (dBm)	Meas. (dBm)	Meas. 1g (W/kg)	Reported. 1g (W/kg)	Plot No.
Ant.D	Head	LE 125kbps	OFF	0	Left Touch	0	2402.0	97.5	12.00	11.68	0.092	0.101	
Ant.D	Head	LE 125kbps	OFF	0	Left Tilt	0	2402.0	97.5	12.00	11.68	0.104	0.115	75
Ant.D	Head	LE 125kbps	OFF	0	Right Touch	0	2402.0	97.5	12.00	11.68	0.084	0.093	
Ant.D	Head	LE 125kbps	OFF	0	Right Tilt	0	2402.0	97.5	12.00	11.68	0.091	0.101	
Ant.D	Body worn & Hotspot	LE 125kbps	OFF	10	Rear	0	2402.0	97.5	12.00	11.68	0.077	0.085	76
Ant.D	Body worn & Hotspot	LE 125kbps	OFF	10	Front	0	2402.0	97.5	12.00	11.68	0.020	0.022	
Ant.D	Hotsopt	LE 125kbps	OFF	10	Top	0	2402.0	97.5	12.00	11.68	0.052	0.058	
Ant.D	Hotsopt	LE 125kbps	OFF	10	Left	0	2402.0	97.5	12.00	11.68	0.002	0.003	

Note(s):

Body worn power and distance are the same as Hotspot. So used Hotspot data at Body worn exposure. according to referencing KDB 648474 D04 guidance.

10.34. NFC

Mode	RF Exposure Conditions	Dist. (mm)	Test Position	Test setup		Freq. (MHz)	10-g SAR (W/kg)	Plot No.
				Type	Bitrate		Meas.	
PBRS	Product Specific 10-g	0	Rear	A	106	13.56	0.021	77
			Front	A	106	13.56	0.000	
			Top	A	106	13.56	0.000	
			Left	A	106	13.56	0.000	

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	Antenna	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	Ant.A	Body worm & Hotspot	Rear	No	0.381	N/A	N/A
	LTE Band 13	Ant.A	Body worm & Hotspot	Rear	No	0.321	N/A	N/A
	LTE Band 14	Ant.A	Body worm & Hotspot	Rear	No	0.326	N/A	N/A
	LTE Band 71	Ant.A	Body worm & Hotspot	Rear	No	0.285	N/A	N/A
	NR Band n71	Ant.A	Hotspot	Right	No	0.276	N/A	N/A
850	GSM 850	Ant.A	Body worm & Hotspot	Rear	No	0.345	N/A	N/A
	WCDMA Band V	Ant.A	Body worm & Hotspot	Rear	No	0.339	N/A	N/A
	LTE Band 5	Ant.A	Body worm & Hotspot	Rear	No	0.383	N/A	N/A
	LTE Band 26	Ant.A	Body worm & Hotspot	Rear	No	0.392	N/A	N/A
	NR Band n5	Ant.A	Body worm & Hotspot	Rear	No	0.454	N/A	N/A
1750	WCDMA Band IV	Ant.A	Body-worn & Hotspot	Rear	No	0.335	N/A	N/A
	LTE Band 66	Ant.A	Hotspot	Bottom	No	0.304	N/A	N/A
	LTE Band 66	Ant.B	Body worm & Hotspot	Rear	No	0.340	N/A	N/A
	NR Band n66	Ant.A	Body worm & Hotspot	Rear	No	0.239	N/A	N/A
	NR Band n66	Ant.B	Hotspot	Left	No	0.303	N/A	N/A
	NR Band n70	Ant.A	Body worm & Hotspot	Rear	No	0.361	N/A	N/A
1900	GSM 1900	Ant.A	Hotspot	Bottom	No	0.467	N/A	N/A
	WCDMA Band II	Ant.A	Body worm & Hotspot	Rear	No	0.375	N/A	N/A
	LTE Band 2	Ant.B	Body worm & Hotspot	Rear	No	0.322	N/A	N/A
	LTE Band 25	Ant.A	Body worm & Hotspot	Rear	No	0.305	N/A	N/A
	NR Band n2	Ant.B	Body worm & Hotspot	Rear	No	0.399	N/A	N/A
	NR Band n25	Ant.A	Hotspot	Bottom	No	0.283	N/A	N/A
2300	LTE Band 30	Ant.A	Body worm & Hotspot	Rear	No	0.361	N/A	N/A
	NR Band n30	Ant.A	Body worm & Hotspot	Rear	No	0.305	N/A	N/A
2450	DTS	Ant.D	Body worm & Hotspot	Rear	No	0.077	N/A	N/A
	Bluetooth	Ant.D	Body worm & Hotspot	Rear	No	0.534	N/A	N/A

Note(s):

1. In above table, Only some bands above 2.0 W/kg (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.

Peak spatial-average (1g of tissue) (Continued)

Frequency Band (MHz)	Air Interface	Antenna	RF Exposure Conditions	Test Position	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	Repeated Measured SAR (W/kg)	Largest to Smallest SAR Ratio
2600	LTE Band 7	Ant.A	Body worn & Hotspot	Rear	No	0.410	N/A	N/A
	LTE Band 41	Ant.A	Body worn & Hotspot	Rear	No	0.155	N/A	N/A
	NR Band n41	Ant.A	Body worn & Hotspot	Rear	No	0.145	N/A	N/A
3600	LTE Band 48	Ant.E	Head	Right Touch	No	0.164	N/A	N/A
3600	NR Band n48	Ant.E	Head	Right Touch	No	0.508	N/A	N/A
3800	NR Band n77	Ant.E	Body worn & Hotspot	Rear	No	0.248	N/A	N/A
5300	U-NII 2A	Ant.D	Body worm	Rear	No	0.699	N/A	N/A
5600	U-NII 2C	Ant.D	Body worm	Rear	No	0.664	N/A	N/A
5800	U-NII 3	Ant.D	Hotspot	Top	No	0.748	N/A	N/A

Peak spatial-average (10g of tissue)

Frequency Band (MHz)	Air Interface	Antenna	RF Exposure Conditions	Test Position	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	Repeated Measured SAR (W/kg)	Largest to Smallest SAR Ratio
5300	U-NII 2A	Ant.D	Product specific 10-g SAR	Rear	No	1.210	N/A	N/A
5600	U-NII 2C	Ant.D	Product specific 10-g SAR	Top	No	1.640	N/A	N/A

Note(s):

1. 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	Simultaneous transmission scenarios
Head & Body-worn & Hotspot & Phablet-10g	1	WWAN (2G/3G/LTE/NR) + (DTS Ant.1)
	2	WWAN (2G/3G/LTE/NR) + (UNII Ant.1)
	3	WWAN (2G/3G/LTE/NR) + (BT Ant.1)
	4	WWAN (2G/3G/LTE/NR) + (UNII Ant.1 + BT Ant.1)
	5	WWAN (ENDC/ULCA) + (DTS Ant.1)
	6	WWAN (ENDC/ULCA) + (UNII Ant.1)
	7	WWAN (ENDC/ULCA) + (BT Ant.1)
	8	WWAN (ENDC/ULCA) + (UNII Ant.1 + BT Ant.1)
Phablet-10g	9	Scenatios item (1-8) + NFC

Notes:

1. DTS supports Wi-Fi Direct, Hotspot and VoIP.
2. U-NII supports Wi-Fi Direct, Hotspot and VoIP.
3. GPRS, W-CDMA, LTE, NR supports Hotspot and VoIP
4. U-NII Radio can transmit simultaneously with Bluetooth Radio.
5. NR Radio support to both SA and NSA(ENDC) Radio.
6. BT tethering is considered about each RF exposure conditions.
7. LTE supports UL CA configuration.
8. NFC can transmit simultaneously with other Radios in Phablet-10g condition.

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 WLAN and/or other radios using one of 4G or 5G NR.

12.1. Antenna group consideration

In WWAN TAS algorithm, it was assumed that all antennas are correlated regardless of their direction of transmission in space. Thus, the main concept was to split the SAR/TER on the transmitting RATs even they are transmitting on different antennas. Such approach is considered as a worst case scenario in terms of transmitting power. Thus, to enhance the performance of the transmission power RATs, we should consider the spatial properties of each antenna and the correlations between the antennas transmissions.

For a DUT with N antennas, a spatial correlation matrix (R) can be constructed to map the correlation between each two antennas when they transmit simultaneously. Thus this correlation matrix is given as

$$R = \begin{bmatrix} r_{11} & r_{12} & \cdots & r_{1N} \\ r_{21} & r_{22} & \cdots & r_{2N} \\ \vdots & \vdots & \ddots & \vdots \\ r_{N1} & r_{N2} & \cdots & r_{NN} \end{bmatrix}$$

And it has the following characteristics

a) r_{ij} is the correlation between antenna i and antenna j

b) The value of r_{ij} is either 0 or 1, where 1 means fully correlated and 0 means fully uncorrelated.

c) r_{ii} is the self-correlation of each antenna and it is always 1.

Since the R matrix entries depends on the antenna distribution of each DUT, then our spatial TAS algorithm is implemented to operate with any R matrix (antenna distribution agnostic).
The values of the R matrix entries should be determined by the OEM based on the DUT used. One way to determine the values of the R matrix entries is to use the SPLSR test mentioned in FCC KDB 447498 guide.

The table below shows the antenna groups and R matrix declared by manufacturer:

Antenna Group	Antenna	Band list
AG0	Ant. A	GSM 850, 1900 WCDMA B2, B4, B5 LTE B2, B25, B4, B66, B5, B26, B7, B12, B13, B14, B30, B71, B41, B38 NR Bn2, Bn25, Bn5, Bn30, Bn41, Bn66, Bn70, Bn71
AG1	Ant. B	LTE B2, B66, NR Bn2, Bn66
	Ant. D	NR Bn48 SRS2, Bn77 SRS 2, Bn78 SRS 2
	Ant. E	LTE B48, NR Bn48, Bn77
	Ant. F	NR Bn48 SRS3, Bn77 SRS3, Bn78 SRS3
	Ant. G	NR Bn48 SRS1, Bn77 SRS1, Bn78 SRS1

R =

Antenna Group		AG0	AG1				
	Antenna	Ant. A	Ant. B	Ant. D	Ant. E	Ant. F	Ant. G
AG0	Ant. A	1	0	0	0	0	0
AG1	Ant. B	0	1	1	1	1	1
	Ant. D	0	1	1	1	1	1
	Ant. E	0	1	1	1	1	1
	Ant. F	0	1	1	1	1	1
	Ant. G	0	1	1	1	1	1

SPLSR criteria verification according to matrix (R) verifies only RF exposure configurations where AG0+AG1 or AG0+AG1+other radios(WLAN/BT/NFC) exceeds the FCC limit.

12.1.1 Head/ Body-worn & Hotspot/ Product Specific 10-g exposure Antenna group analysis

Antenna Group : AG0's (Ant.A) Highest SAR Result

RF exposure	Test position	AG0 Reported SAR (W/kg)														
		GSM 850	GSM 1900	WCDMA B2	WCDMA B4	WCDMA B5	LTE B25(2)	LTE B66(4)	LTE B5	LTE B26	LTE B7	LTE B12	LTE B13	LTE B14	LTE B30	LTE B71
		Ant A	Ant A	Ant A	Ant A	Ant A	Ant A	Ant.A	Ant A	Ant A	Ant. A	Ant A	Ant A	Ant A	Ant.A	Ant.A
Head	Left Touch	0.271	0.156	0.206	0.191	0.262	0.325	0.235	0.266	0.307	0.380	0.236	0.243	0.209	0.239	0.251
	Left Tilt	0.171	0.144	0.206	0.181	0.162	0.252	0.216	0.186	0.147	0.186	0.128	0.164	0.139	0.136	0.116
	Right Touch	0.338	0.124	0.194	0.204	0.316	0.279	0.248	0.312	0.356	0.357	0.295	0.299	0.253	0.151	0.288
	Right Tilt	0.211	0.090	0.125	0.161	0.179	0.223	0.189	0.166	0.273	0.280	0.173	0.171	0.164	0.113	0.154
Body-worn & Hotspot	Rear	0.428	0.536	0.409	0.355	0.379	0.472	0.388	0.490	0.514	0.509	0.520	0.462	0.431	0.481	0.384
	Front	0.252	0.337	0.224	0.231	0.250	0.272	0.210	0.285	0.308	0.307	0.322	0.342	0.247	0.407	0.275
Hotspot	Top															
	Left	0.248	0.208	0.169	0.157	0.221	0.167	0.200	0.258	0.279	0.286	0.237	0.263	0.222	0.320	0.184
	Bottom	0.293	0.596	0.391	0.351	0.268	0.351	0.428	0.302	0.318	0.488	0.157	0.258	0.255	0.456	0.164
	Right	0.399	0.093	0.061	0.109	0.317	0.061	0.118	0.380	0.388	0.077	0.382	0.378	0.311	0.101	0.369
Product Specific 10-g	Rear															
	Front															
	Top															
	Left															
	Bottom															
	Right															

RF exposure	Test position	AG0 Reported SAR (W/kg)								Ant.A Worst SAR	AG0 Worst SAR
		LTE B41(38)	NR Bn5	NR Bn25(2)	NR Bn30	NR Bn41	NR Bn66	NR Bn70	NR Bn71		
		Ant.A	Ant.A	Ant.A	Ant.A	Ant.A	Ant.A	Ant.A	Ant.A		
Head	Left Touch	0.093	0.317	0.274	0.324	0.088	0.250	0.271	0.157	0.380	0.380
	Left Tilt	0.025	0.223	0.257	0.154	0.023	0.239	0.251	0.093	0.257	0.257
	Right Touch	0.036	0.431	0.262	0.113	0.032	0.272	0.356	0.169	0.431	0.431
	Right Tilt	0.033	0.210	0.168	0.105	0.033	0.211	0.234	0.099	0.280	0.280
Body-worn & Hotspot	Rear	0.192	0.665	0.414	0.404	0.157	0.314	0.458	0.271	0.665	0.665
	Front	0.106	0.356	0.269	0.291	0.094	0.160	0.278	0.191	0.407	0.407
Hotspot	Top									0.000	0.000
	Left	0.098	0.280	0.179	0.293	0.098	0.140	0.177	0.178	0.320	0.320
	Bottom	0.171	0.421	0.422	0.331	0.138	0.251	0.441	0.141	0.596	0.596
	Right	0.021	0.409	0.060	0.060	0.024	0.085	0.131	0.347	0.380	0.380
Product Specific 10-g	Rear									0.000	0.000
	Front									0.000	0.000
	Top									0.000	0.000
	Left									0.000	0.000
	Bottom									0.000	0.000
	Right									0.000	0.000

Antenna Group : AG1's (Ant.B, D, E, F, G) Highest SAR Results

RF exposure	Test position	AG1 Reported SAR (W/kg)				Ant.B Worst SAR	AG1 Reported SAR (W/kg)		Ant.D Worst SAR	AG1 Reported SAR (W/kg)			Ant.E Worst SAR
		LTE B2	LTE B66	NR Bn2	NR Bn66		NR Bn48 SRS2	NR Bn77(78) SRS2		LTE B48	NR Bn48	NR Bn77(78)	
		Ant.B	Ant.B	Ant.B	Ant.B		Ant.D	Ant.D		Ant.E	Ant.E	Ant.E	
Head	Left Touch	0.132	0.123	0.150	0.219	0.219	0.163	0.192	0.192	0.060	0.146	0.058	0.146
	Left Tilt	0.083	0.117	0.083	0.118	0.118	0.153	0.185	0.185	0.048	0.117	0.055	0.117
	Right Touch	0.316	0.253	0.313	0.177	0.316	0.296	0.360	0.360	0.174	0.562	0.214	0.562
	Right Tilt	0.143	0.086	0.118	0.137	0.143	0.274	0.294	0.294	0.095	0.268	0.140	0.268
Body-worn & Hotspot	Rear	0.474	0.522	0.603	0.373	0.603	0.091	0.056	0.091	0.140	0.548	0.319	0.548
	Front	0.065	0.080	0.092	0.224	0.224	0.048	0.070	0.070	0.041	0.098	0.055	0.098
Hotspot	Top					0.000	0.040	0.057	0.057	0.037	0.095	0.050	0.095
	Left	0.250	0.167	0.349	0.467	0.467	0.031	0.019	0.031	0.107	0.288	0.152	0.288
	Bottom					0.000			0.000				0.000
	Right					0.000			0.000				0.000
Product Specific 10-g	Rear					0.000			0.000				0.000
	Front					0.000			0.000				0.000
	Top					0.000			0.000				0.000
	Left					0.000			0.000				0.000
	Bottom					0.000			0.000				0.000
	Right					0.000			0.000				0.000

RF exposure	Test position	AG1 Reported SAR (W/kg)		Ant.F Worst SAR	AG1 Reported SAR (W/kg)		Ant.G Worst SAR	AG1 Worst SAR
		NR Bn48 SRS3	NR Bn77(78) SRS3		NR Bn48 SRS1	NR Bn77(78) SRS1		
		Ant.F	Ant.F		Ant.G	Ant.G		
Head	Left Touch	0.269	0.187	0.269	0.559	0.308	0.559	0.559
	Left Tilt	0.147	0.101	0.147	0.558	0.428	0.558	0.558
	Right Touch	0.064	0.047	0.064	0.355	0.320	0.355	0.562
	Right Tilt	0.042	0.018	0.042	0.212	0.293	0.293	0.294
Body-worn & Hotspot	Rear	0.167	0.149	0.167	0.396	0.204	0.396	0.603
	Front	0.058	0.026	0.058	0.158	0.087	0.158	0.224
Hotspot	Top	0.019	0.012	0.019	0.345	0.205	0.345	0.345
	Left			0.000			0.000	0.467
	Bottom			0.000			0.000	0.000
	Right	0.141	0.124	0.141			0.000	0.141
Product Specific 10-g	Rear			0.000			0.000	0.000
	Front			0.000			0.000	0.000
	Top			0.000			0.000	0.000
	Left			0.000			0.000	0.000
	Bottom			0.000			0.000	0.000
	Right			0.000			0.000	0.000

Summation of AG0 and AG1

RF exposure	Test position	Ant.A Worst SAR	AG0 Worst SAR	Ant.B Worst SAR	Ant.D Worst SAR	Ant.E Worst SAR	Ant.F Worst SAR	Ant.G Worst SAR	AG1 Worst SAR	AG0+AG 1	FCC Limit
Head	Left Touch	0.380	0.380	0.219	0.192	0.146	0.269	0.559	0.559	0.938	1.6
	Left Tilt	0.257	0.257	0.118	0.185	0.117	0.147	0.558	0.558	0.815	
	Right Touch	0.431	0.431	0.316	0.360	0.562	0.064	0.355	0.562	0.993	
	Right Tilt	0.280	0.280	0.143	0.294	0.268	0.042	0.293	0.294	0.574	
Body-worn & Hotspot	Rear	0.665	0.665	0.603	0.091	0.548	0.167	0.396	0.603	1.268	
	Front	0.407	0.407	0.224	0.070	0.098	0.058	0.158	0.224	0.630	
Hotspot	Top	0.000	0.000	0.000	0.057	0.095	0.019	0.345	0.345	0.345	
	Left	0.320	0.320	0.467	0.031	0.288	0.000	0.000	0.467	0.787	
	Bottom	0.596	0.596	0.000	0.000	0.000	0.000	0.000	0.000	0.596	
	Right	0.380	0.380	0.000	0.000	0.000	0.141	0.000	0.141	0.521	
Product Specific 10-g	Rear	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	Front	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	Top	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	Left	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	Bottom	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	Right	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

12.2. Simultaneous transmission analysis

Simultaneous transmission SAR test exclusion considerations

KDB 447498 D04 Interim General RF Exposure Guidance provides two procedures for determining simultaneous transmission SAR test exclusion: Sum of SAR

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 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.

12.2.1 All exposure simultaneous transmission analysis

Condition#1

RF exposure	Test position	Reported SAR (W/kg)			
		DTS	UNII	BT	NFC
Head	Left Touch	0.160	0.311	0.101	
	Left Tilt	0.160	0.370	0.115	
	Right Touch	0.160	0.370	0.093	
	Right Tilt	0.160	0.370	0.101	
Body-worn &	Rear	0.640	0.859	0.085	
	Front	0.640	0.865	0.022	
Hotspot	Top	0.364	0.865	0.058	
	Left	0.640	0.104	0.003	
	Bottom				
	Right				
Product Specific 10-g	Rear		1.991		0.021
	Front		1.991		0.000
	Top		1.865		0.000
	Left		1.991		0.000
	Bottom				
	Right				

WWAN(AG0+AG1) + WLAN + BT + NFC summation results

RF exposure	Test position	AG0	AG1	WLAN	BT	NFC	SUM SAR (W/kg)
Head	Left Touch	0.380	0.559	0.311	0.101		1.351
	Left Tilt	0.257	0.558	0.370	0.115		1.300
	Right Touch	0.431	0.562	0.370	0.093		1.455
	Right Tilt	0.280	0.294	0.370	0.101		1.044
Body-worn & Hotspot	Rear	0.665	0.603	0.859	0.085		**2.212**
	Front	0.407	0.224	0.865	0.022		1.517
Hotspot	Top		0.345	0.865	0.058		1.268
	Left	0.320	0.467	0.640	0.003		1.430
	Bottom	0.596					0.596
	Right	0.380	0.141				0.521
Product Specific 10-g	Rear			1.991		0.021	2.012
	Front			1.991		0.000	1.991
	Top			1.865		0.000	1.865
	Left			1.991		0.000	1.991
	Bottom						0.000
	Right						0.000

Note(s):

1. Blue value is estimated SAR value.

WWAN(AG0+AG1) + WLAN + BT + NFC summation results (Continued)

RF exposure	Test position	SAR (W/kg)							Note.
		AG0	AG1	DTS	UNII	BT	UNII + BT	SUM	
Body-worn & Hotspot	Rear	0.665	0.603	0.640	0.859	0.085	0.944		
		0.665		0.640				1.305	
		0.665			0.859			1.524	
		0.665				0.085		0.750	
		0.665					0.944	**1.609**	1
			0.603	0.640				1.243	
			0.603		0.859			1.462	
			0.603			0.085		0.688	
			0.603				0.944	1.547	
		0.665	0.603	0.640				**1.908**	1
		0.665	0.603		0.859			**2.127**	1
		0.665	0.603			0.085		1.353	
		0.665	0.603				0.944	**2.212**	1

Note(s):

1. If some simultaneous transmission scenarios are over FCC limit (Red values in table), SPLSR criteria was performed in Condition#2. According to the results of Condition#2, all combination exceeding the FCC limit of above table satisfied the SPLSR criteria. Please refer to Condition#2.

All exposure simultaneous transmission analysis (Continued)

Condition#2 Rear

Calculated Distance (mm)

Rear Peak Position & Calculation Dist. (mm)																				
Band		AG1&ER	LTE B2	LTE B66	NR Bn2	NR Bn66	NR Bn48 SRS2	NR Bn77(78) SRS2	LTE B48	NR Bn48	NR Bn77(78)	NR Bn48 SRS3	NR Bn77(78) SRS3	NR Bn48 SRS1	NR Bn77(78) SRS1	DTS	UNII 2A	UNII 2C	UNII 3	BT
	x		-62.5	-61.5	-59	-67	-53.5	-53	-57.5	-55	-56.5	15	12	2	-22.5	-43.4	-38	-40	-38	-39.6
AG0		y	-49.5	-45	-51.5	-46.5	-73.5	-67.5	-62.5	-66	-59	-60	-52.5	-77	-67	-81.2	-78	-76	-76	-85
GSM 850	-10.2	81.9	141.43	136.88	142.05	140.40	161.32	155.41	151.95	154.54	148.31	144.12	136.22	159.37	149.41	166.44	162.30	160.69	160.33	169.47
GSM1900	-43.5	82.5	133.36	128.76	134.89	131.12	156.32	150.30	145.67	148.94	142.10	154.04	145.96	165.86	150.97	163.70	160.59	158.54	158.60	167.55
WCDMA B2	-44	81	131.80	127.21	133.35	129.56	154.79	148.77	144.13	147.41	140.56	152.85	144.77	164.56	149.55	162.20	159.11	157.05	157.11	166.06
WCDMA B4	-26.5	73.5	128.16	123.56	129.16	126.65	149.46	143.47	139.49	142.38	135.85	139.80	131.75	153.17	140.56	155.62	151.94	150.11	149.94	159.04
WCDMA B5	-8.7	78.4	138.75	134.22	139.30	137.84	158.37	152.48	149.11	151.64	145.48	140.41	132.53	155.77	146.05	163.33	159.12	157.54	157.16	166.30
LTE B25(2)	-41	80.3	131.57	126.97	133.02	129.44	154.31	148.29	143.75	146.97	140.16	151.06	142.99	163.07	148.46	161.52	158.33	156.30	156.33	165.31
LTE B66(4)	-35.5	72	124.46	119.85	125.72	122.62	146.61	140.59	136.29	139.37	132.67	141.33	133.25	153.65	139.61	153.40	150.02	148.07	148.02	157.05
LTE B5	-10.4	83.4	142.75	138.19	143.39	141.70	162.71	156.80	153.31	155.92	149.68	145.63	137.73	160.88	150.89	167.88	163.74	162.13	161.77	170.91
LTE B26	-8.4	78.6	139.06	134.52	139.59	138.14	158.65	152.76	149.40	151.92	145.76	140.56	132.68	155.95	146.28	163.59	159.37	157.80	157.41	166.55
LTE B7	-37	84	135.91	131.31	137.27	133.90	158.36	152.34	147.93	151.08	144.32	153.10	145.03	165.66	151.69	165.32	162.00	160.03	160.00	169.02
LTE B12	2	73.5	138.89	134.44	139.09	138.42	157.13	151.35	148.45	150.70	144.84	134.13	126.40	150.50	142.62	161.22	156.69	155.29	154.76	163.87
LTE B13	-6.7	79.9	140.92	136.39	141.43	140.05	160.38	154.50	151.19	153.69	147.56	141.57	133.71	157.14	147.75	165.23	160.97	159.42	159.01	168.15
LTE B14	-12.9	81.1	139.70	135.14	140.39	138.59	159.84	153.92	150.37	153.01	146.73	143.83	135.90	158.80	148.41	165.14	161.07	159.42	159.09	168.23
LTE B30	-38	78.5	130.32	125.72	131.69	128.32	152.79	146.77	142.34	145.50	138.74	148.29	140.22	160.56	146.32	159.79	156.50	154.51	154.50	163.51
LTE B71	-7.7	81.1	141.63	137.10	142.18	140.71	161.24	155.35	151.99	154.52	148.36	142.91	135.04	158.40	148.84	166.18	161.96	160.39	160.00	169.14
LTE B41(38)	-42.5	82.5	133.51	128.91	135.01	131.31	156.39	150.37	145.77	149.03	142.19	153.66	145.59	165.59	150.83	163.70	160.56	158.52	158.56	167.53
NR Bn5	-10.5	80.1	139.64	135.10	140.25	138.64	159.51	153.60	150.15	152.73	146.51	142.40	134.50	157.60	147.59	164.62	160.47	158.86	158.50	167.64
NR Bn25(2)	-43.5	80.5	131.38	126.78	132.91	129.16	154.32	148.30	143.68	146.95	140.10	152.19	144.12	163.94	148.99	161.70	158.60	156.54	156.60	165.55
NR Bn30	-38.5	82	133.67	129.07	135.06	131.62	156.22	150.20	145.74	148.92	142.14	151.74	143.67	164.08	149.86	163.27	160.00	158.01	158.00	167.00
NR Bn41	-34.5	77.5	130.05	125.44	131.31	128.19	152.19	146.18	141.88	144.96	138.26	146.14	138.07	158.75	145.00	158.95	155.54	153.60	153.54	162.58
NR Bn66	-51.5	75	124.98	120.42	126.72	122.48	148.51	142.51	137.63	141.04	134.09	150.49	142.44	161.14	144.93	156.41	153.59	151.44	151.60	160.44
NR Bn70	-34	76.5	129.18	124.57	130.42	127.35	151.26	145.25	140.97	144.04	137.36	145.03	136.96	157.66	143.96	157.98	154.55	152.62	152.55	161.60
NR Bn71	-22	7.5	69.92	65.70	69.64	70.29	86.91	81.15	78.49	80.57	74.92	76.98	68.96	87.84	74.50	91.24	86.98	85.42	85.02	94.16

SUM-SPLSR Results

Band		AG1+ER
	SAR (W/kg)	1.547
GSM 850	0.428	0.02
GSM1900	0.536	0.02
WCDMA B2	0.409	0.02
WCDMA B4	0.355	0.02
WCDMA B5	0.379	0.02
LTE B25(2)	0.472	0.02
LTE B66(4)	0.388	0.02
LTE B5	0.550	0.02
LTE B26	0.514	0.02
LTE B7	0.509	0.02
LTE B12	0.520	0.02
LTE B13	0.462	0.02
LTE B14	0.431	0.02
LTE B30	0.481	0.02
LTE B71	0.384	0.02
LTE B41(38)	0.192	0.02
NR Bn5	0.665	0.02
NR Bn25(2)	0.414	0.02
NR Bn30	0.404	0.02
NR Bn41	0.157	0.02
NR Bn66	0.314	0.02
NR Bn70	0.458	0.02
NR Bn71	0.271	0.04

Note(s):

1. For AG1+ER, SUM-SPLSR considered using closet distance and highest SAR value in each AG1 and ERs.
2. If SPLSR criteria ≤ 0.04 (1-g respectively) in all antenna pair (AG0 & AG1), additional evaluation is not required.

Conclusion:

Simultaneous Transmission SAR analysis results is satisfied the FCC Limit requirement according to follow procedures with “Sum of SAR” or “SPLSR” or “SUM-SPLSR”.

Appendixes

Refer to separated files for the following appendixes.

S-4791440365-S1 FCC Report SAR_App A_Photos & Ant. Locations

S-4791440365-S1 FCC Report SAR_App B_Highest SAR Test Plots

S-4791440365-S1 FCC Report SAR_App C_System Check Plots

S-4791440365-S1 FCC Report SAR_App D_SAR Tissue Ingredients

S-4791440365-S1 FCC Report SAR_App E_Probe Cal. Certificates

S-4791440365-S1 FCC Report SAR_App F_Dipole Cal. Certificates

S-4791440365-S1 FCC Report SAR_App G_LTE Carrier Aggregation

END OF REPORT