



TEST REPORT

Report Number: 14040863-E8V2

Applicant : APPLE, INC
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A

Model : A2650

Brand : APPLE

FCC ID : BCG-E8140A

EUT Description : SMARTPHONE

Test Standard(s) : FCC CFR 47 PART 2, 22H, 24E, 27, 90S, 90R, AND 96

Date Of Issue:
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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	6/28/2022	Initial Review	Mengistu Mekuria
V2	7/14/2022	Addressed TCB Questions sections 6.2, 6.4, 8.15 and 9.1	Mengistu Mekuria

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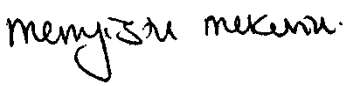


1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE, INC 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A
Model	A2650
Brand	APPLE
FCC ID	BCG-E8140A
EUT Description	SMARTPHONE
Serial Number	P6Q40VXVX1, MX6MQD93RY (CONDUCTED) AND R9VD6JPQTY, JJJ377FDJ2 (RADIATED)
Sample Receipt Date	APRIL 11, 2022
Date Tested	FEBRUARY 16, 2022 to JULY 19, 2022
Applicable Standards	FCC CFR47 2, 22H, 24E, 27, 90S, 90R, AND 96
Test Results	COMPLIES

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC 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 A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.

Approved & Released By: 	Reviewed By: 	Prepared By: 
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2. SUMMARY OF TEST RESULTS

This report contains data provided by the customer which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer.

Requirement Description	Band	Requirement Clause Number (FCC)	Result	Remarks
RF Conducted Output Power	26 (90S)	2.1046 , 90.635 (b)	Complies	
Effective Radiated Power	5, 26	22.913 (a)(5)	Complies	
	12	27.50 (c) (10)	Complies	
	13	27.50 (b) (10)	Complies	
	14	90.541 (d)	Complies	
	17	27.50 (c) (10)	Complies	
Equivalent Isotropic Radiated Power	2, 25	24.232 (c)	Complies	
	4, 66	27.50 (d) (4)	Complies	
	70	27.50 (d) (4)	Complies	
	5	-	Complies	
	30	27.50 (a) (3)	Complies	
	7, 41, 38	27.50 (h) (2)	Complies	
	48	96.41 (b)	Complies	
	71	27.50 (c) (10)	Complies	
	77	96.41 (b), 27.50 (j) (3), (k) (3)	Complies	

Requirement Description	Requirement Clause Number (FCC)	Result	Remarks
Occupied Bandwidth	2.1049	Complies	
Band Edge and Emission Mask	2.1051, 22.917 (a), 24.238 (a), 27.53 (h), 27.53 (m)(4) & (m) (6), 96.41(e) , 27.53 (g), 27.53 (c) (f), 27.53(a), 27.53(l), 90.543 (e)(f), 90.691 (a), 96.41(e)	Complies	
Out of Band Emissions	2.1051, 22.917 (a), 24.238 (a), 27.53 (h), 27.53 (m)(4) & (m) (6), 96.41(e) , 27.53 (g), 27.53 (c) (f), 27.53(a), 27.53(l), 90.543 (e)(f), 90.691 (a), 96.41(e)	Complies	
Frequency Stability	2.1055, 22.355, 24.235, 27.54, 90.539, 90.213	Complies	
Peak-to-Average Ratio	22.913 (d), 24.232 (d), 27.50 (d) (5), 27.50 (j) (4), 96.41 (g)	Complies	
Field Strength of Spurious Radiation	2.1053, 22.917 (a), 24.238 (a), 27.53 (h), 27.53 (m)(4) & (m) (6), 96.41(e) , 27.53 (g), 27.53 (c) (f), 27.53(a), 27.53(l), 90.543 (e)(f), 90.691 (a), 96.41(e)	Complies	

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the following:

- ANSI C63.26:2015
- FCC CFR 47 Part 2, Part 22, Part 24, Part 27, Part 90, and Part 96
- [FCC KDB 971168 D01 v03r01](#): Power Meas License Digital Systems
- [FCC KDB 971168 D02 v02r01](#): Misc Rev Approv License Devices
- [FCC KDB 412172 D01 v01r01](#): Determining ERP and EIRP

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
<input checked="" type="checkbox"/>	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
<input checked="" type="checkbox"/>	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA	US0104	22541	550739
<input type="checkbox"/>	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA	US0104	2324B	550739

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{Lab}
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.84 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB
Occupied Channel Bandwidth	±1.22 %
Temperature	±2.26%
Supply voltages	±0.57 %
Time	±3.39 %

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.
36.5 dBuV + 0 dB + 10.1 dB + 0 dB = 46.6 dBuV

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The Apple iPhone is a smartphone with multimedia functions (music, application support, and video), cellular GSM, GPRS, EGPRS, UMTS, LTE, 5G FR1, IEEE 802.11a/b/g/n/ac/ax, Bluetooth, Ultra-Wideband, GPS, NFC and MSS. All models except reference model support at least one UICC based SIM. The second SIM is either an UICC based p-SIM (physical SIM) or e-SIM (electronic SIM). The device supports a built-in inductive charging transmitter and receiver. The rechargeable battery is not user accessible.

Testing was performed on the parent model and is used to support the application for the parent and variants identified in this report based on the test plan submitted and approved via KDB inquiry by the FCC and by ISED-Canada.

6.2. MAXIMUM OUTPUT POWER

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.6

$ERP/EIRP = P_{Meas} + GT - LC$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

EUT includes different power levels for head use configuration and body use configuration and the below tables contain the highest of all configurations average conducted and ERP/EIRP output powers as follows:

Note: for Band48, 5G NR n48, and 5G NR n78 there are three antenna gains for different frequency range within assigned frequency spectrum. As a result, different antennas and conducted power combination are used to get the maximum EIRP or output powers.

LTE BAND 5

Part 22								
ERP Limit (W)		7.00						
Antenna Gain (dBi)_(Ant1)		-5.00						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	824.7	848.3	25.70	18.55	0.072	1093	1M09G7W
	16QAM			25.28	18.13	0.065	1096	1M10D7W
3.0	QPSK	825.5	847.5	25.70	18.55	0.072	2704	2M70G7W
	16QAM			25.31	18.16	0.065	2708	2M71D7W
5.0	QPSK	826.5	846.5	25.70	18.55	0.072	4499	4M50G7W
	16QAM			25.36	18.21	0.066	4514	4M51D7W
10.0	QPSK	829.0	844.0	25.70	18.55	0.072	8986	8M99G7W
	16QAM			25.38	18.23	0.067	8966	8M97D7W

5G NR n5

Part 22								
ERP Limit (W)		7.00						
Antenna Gain (dBi)_(Ant1)		-5.00						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	826.5	846.5	25.70	18.55	0.072	4536	4M54G7W
	QPSK			25.70	18.55	0.072	4525	4M53G7W
	16QAM			25.24	18.09	0.064	4494	4M49D7W
10.0	BPSK	829.0	844.0	25.64	18.49	0.071	8958	8M96G7W
	QPSK			25.70	18.55	0.072	8964	8M96G7W
	16QAM			25.16	18.01	0.063	8937	8M94D7W
15.0	BPSK	831.5	841.5	25.68	18.53	0.071	13418	13M4G7W
	QPSK			25.70	18.55	0.072	13433	13M4G7W
	16QAM			25.13	17.98	0.063	13431	13M4D7W
20.0	BPSK	834.0	839.0	25.70	18.55	0.072	17835	17M8G7W
	QPSK			25.69	18.54	0.071	17849	17M8G7W
	16QAM			25.20	18.05	0.064	17810	17M8D7W

LTE BAND 7

Part 27								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)_(Ant3)		2.10						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	2502.5	2567.5	25.00	27.10	0.513	4493	4M49G7W
	16QAM			24.41	26.51	0.448	4499	4M50D7W
10.0	QPSK	2505.0	2565.0	25.00	27.10	0.513	9011	9M01G7W
	16QAM			24.38	26.48	0.445	8993	8M99D7W
15.0	QPSK	2507.5	2562.5	25.00	27.10	0.513	13476	13M5G7W
	16QAM			24.27	26.37	0.434	13475	13M5D7W
20.0	QPSK	2510.0	2560.0	25.00	27.10	0.513	17934	17M9G7W
	16QAM			24.33	26.43	0.440	17987	18M0D7W

5G NR n7

Part 27								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)_(Ant3)		2.10						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	2502.5	2567.5	25.00	27.10	0.513	4517	4M52G7W
	QPSK			25.00	27.10	0.513	4495	4M50G7W
	16QAM			24.63	26.73	0.471	4477	4M48D7W
10.0	BPSK	2505.0	2565.0	25.00	27.10	0.513	8979	8M98G7W
	QPSK			24.98	27.08	0.511	8948	8M95G7W
	16QAM			24.49	26.59	0.456	8968	8M97D7W
15.0	BPSK	2507.5	2562.5	25.00	27.10	0.513	13474	13M5G7W
	QPSK			25.00	27.10	0.513	13483	13M5G7W
	16QAM			24.65	26.75	0.473	13411	13M4D7W
20.0	BPSK	2510.0	2560.0	25.00	27.10	0.513	17933	17M9G7W
	QPSK			25.00	27.10	0.513	17710	17M7G7W
	16QAM			24.69	26.79	0.478	17850	17M9D7W
25.0	BPSK	2512.5	2557.5	25.00	27.10	0.513	22949	22M9G7W
	QPSK			25.00	27.10	0.513	22861	22M9G7W
	16QAM			24.66	26.76	0.474	22875	22M9D7W
30.0	BPSK	2515.0	2555.0	25.00	27.10	0.513	28614	28M6G7W
	QPSK			25.00	27.10	0.513	28505	28M5G7W
	16QAM			24.64	26.74	0.472	28508	28M5D7W
40.0	BPSK	2520.0	2550.0	25.00	27.10	0.513	38665	38M7G7W
	QPSK			24.96	27.06	0.508	38526	38M5G7W
	16QAM			24.61	26.71	0.469	38519	38M5D7W

LTE BAND 12

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)_(Ant1)		-5.00						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	699.7	715.3	25.70	18.55	0.072	1092	1M09G7W
	16QAM			25.32	18.17	0.066	1092	1M09D7W
3.0	QPSK	700.5	714.5	25.70	18.55	0.072	2701	2M70G7W
	16QAM			25.33	18.18	0.066	2709	2M71D7W
5.0	QPSK	701.5	713.5	25.70	18.55	0.072	4504	4M50G7W
	16QAM			25.38	18.23	0.067	4495	4M50D7W
10.0	QPSK	704.0	711.0	25.70	18.55	0.072	8966	8M97G7W
	16QAM			25.36	18.21	0.066	8979	8M98D7W

5G NR n12

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)_(Ant1)		-5.00						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	701.5	713.5	25.66	18.51	0.071	4478	4M48G7W
	QPSK			25.70	18.55	0.072	4465	4M47G7W
	16QAM			25.17	18.02	0.063	4486	4M49D7W
10.0	BPSK	704.0	711.0	25.64	18.49	0.071	8922	8M92G7W
	QPSK			25.70	18.55	0.072	8891	8M89G7W
	16QAM			25.25	18.10	0.065	8909	8M91D7W
15.0	BPSK	706.5	708.5	25.70	18.55	0.072	13430	13M4G7W
	QPSK			25.67	18.52	0.071	13405	13M4G7W
	16QAM			24.92	17.77	0.060	13404	13M4D7W

LTE BAND 13

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)_(Ant1)		-4.90						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	779.5	784.5	25.70	18.65	0.073	4504	4M50G7W
	16QAM			24.41	17.36	0.054	4505	4M51D7W
10.0	QPSK	782.0	782.0	25.70	18.65	0.073	8958	8M96G7W
	16QAM			25.35	18.30	0.068	8962	8M96D7W

LTE BAND 14

Part 90R								
ERP Limit (W)		3.00						
Antenna Gain (dBi)_(Ant1)		-4.90						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	790.5	795.5	25.70	18.65	0.073	4489	4M49G7W
	16QAM			25.39	18.34	0.068	4503	4M50D7W
10.0	QPSK	793.0	793.0	25.70	18.65	0.073	8959	8M96G7W
	16QAM			25.48	18.43	0.070	8983	8M98D7W

5G NR n14

Part 90R								
ERP Limit (W)		3.00						
Antenna Gain (dBi)_(Ant1)		-4.90						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	790.5	795.5	25.70	18.65	0.073	4494	4M49G7W
	QPSK			25.69	18.64	0.073	4497	4M50G7W
	16QAM			25.25	18.20	0.066	4496	4M50D7W
10.0	BPSK	793.0	793.0	25.70	18.65	0.073	8997	9M00G7W
	QPSK			25.66	18.61	0.073	8914	8M91G7W
	16QAM			25.20	18.15	0.065	8977	8M98D7W

LTE BAND 17

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)_(Ant1)		-5.00						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	706.5	713.5	25.70	18.55	0.072	4496	4M50G7W
	16QAM			25.42	18.27	0.067	4505	4M51D7W
10.0	QPSK	709.0	711.0	25.70	18.55	0.072	8980	8M98G7W
	16QAM			25.45	18.30	0.068	8980	8M98D7W

LTE BAND 25

Part 24								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)_(Ant3)		0.80						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	1850.7	1914.3	25.50	26.30	0.427	1095	1M10G7W
	16QAM			24.97	25.77	0.378	1097	1M10D7W
3.0	QPSK	1851.5	1913.5	25.50	26.30	0.427	2701	2M70G7W
	16QAM			24.89	25.69	0.371	2703	2M70D7W
5.0	QPSK	1852.5	1912.5	25.50	26.30	0.427	4504	4M50G7W
	16QAM			24.97	25.77	0.378	4508	4M51D7W
10.0	QPSK	1855.0	1910.0	25.50	26.30	0.427	9005	9M01G7W
	16QAM			24.95	25.75	0.376	8990	8M99D7W
15.0	QPSK	1857.5	1907.5	25.50	26.30	0.427	13481	13M5G7W
	16QAM			24.87	25.67	0.369	13481	13M5D7W
20.0	QPSK	1860.0	1905.0	25.50	26.30	0.427	17881	17M9G7W
	16QAM			25.05	25.85	0.385	17952	18M0D7W

5G NR n25

Part 24									
EIRP Limit (W)		2.00							
Antenna Gain (dBi)_(Ant3)		0.80							
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator	
5.0	BPSK	1852.5	1912.5	25.45	26.25	0.422	4527	4M53G7W	
	QPSK			25.50	26.30	0.427	4498	4M50G7W	
	16QAM			25.07	25.87	0.386	4497	4M50D7W	
10.0	BPSK	1855.0	1910.0	25.45	26.25	0.422	8970	8M97G7W	
	QPSK			25.50	26.30	0.427	8953	8M95G7W	
	16QAM			25.04	25.84	0.384	8946	8M95D7W	
15.0	BPSK	1857.5	1907.5	25.42	26.22	0.419	13463	13M5G7W	
	QPSK			25.50	26.30	0.427	13412	13M4G7W	
	16QAM			25.07	25.87	0.386	13399	13M4D7W	
20.0	BPSK	1860.0	1905.0	25.43	26.23	0.420	17873	17M9G7W	
	QPSK			25.70	26.50	0.447	17916	17M9G7W	
	16QAM			25.03	25.83	0.383	17898	17M9D7W	
25.0	BPSK	1862.5	1902.5	25.41	26.21	0.418	22894	22M9G7W	
	QPSK			25.50	26.30	0.427	22950	23M0G7W	
	16QAM			24.99	25.79	0.379	22860	22M9D7W	
30.0	BPSK	1865.0	1900.0	25.46	26.26	0.423	28668	28M7G7W	
	QPSK			25.50	26.30	0.427	28536	28M5G7W	
	16QAM			25.01	25.81	0.381	28564	28M6D7W	
40.0	BPSK	1870.0	1895.0	25.50	26.30	0.427	38679	38M7G7W	
	QPSK			25.49	26.29	0.426	38575	38M6G7W	
	16QAM			25.13	25.93	0.392	38569	38M6D7W	

LTE BAND 26 (FCC PART 90S)

Part 90S									
Conducted Limit (W)		100.00							
Antenna Gain (dBi)_(Ant1)		-5.00							
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	Conducted Average (W)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	814.7	823.3	25.70	0.372	18.55	0.072	1090	1M09G7W
	16QAM			25.32	0.340	18.17	0.066	1064	1M06D7W
3.0	QPSK	815.5	822.5	25.70	0.372	18.55	0.072	2704	2M70G7W
	16QAM			25.32	0.340	18.17	0.066	2707	2M71D7W
5.0	QPSK	816.5	821.5	25.70	0.372	18.55	0.072	4502	4M50G7W
	16QAM			25.33	0.341	18.18	0.066	4500	4M50D7W
10.0	QPSK	819.0	819.0	25.70	0.372	18.55	0.072	8959	8M96G7W
	16QAM			25.35	0.343	18.20	0.066	8984	8M98D7W

5G NR n26 (FCC PART 90S)

Part 90S									
Conducted Limit (W)		100.00							
Antenna Gain (dBi)_(Ant1)		-5.00							
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	Conducted Average (W)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	816.5	821.5	25.68	0.370	18.53	0.071	4480	4M48G7W
	QPSK			25.70	0.372	18.55	0.072	4479	4M48G7W
	16QAM			25.24	0.334	18.09	0.064	4470	4M47D7W
10.0	BPSK	819.0	819.0	25.69	0.371	18.54	0.071	8935	8M94G7W
	QPSK			25.70	0.372	18.55	0.072	8921	8M92G7W
	16QAM			25.23	0.333	18.08	0.064	8928	8M93D7W

LTE BAND 30

Part 27								
EIRP Limit (W)		0.25						
Antenna Gain (dBi)_(Ant1)		-2.10						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	2307.5	2312.5	25.60	23.50	0.224	4506	4M51G7W
	16QAM			25.35	23.25	0.211	4505	4M51D7W
10.0	QPSK	2310.0	2310.0	25.60	23.50	0.224	8991	8M99G7W
	16QAM			25.19	23.09	0.204	9004	9M00D7W

5G NR n30

Part 27								
EIRP Limit (W)		0.25						
Antenna Gain (dBi)_(Ant1)		-2.10						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	2307.5	2312.5	25.59	23.49	0.223	4507	4M51G7W
	QPSK			25.60	23.50	0.224	4473	4M47G7W
	16QAM			25.02	22.92	0.196	4483	4M48D7W
10.0	BPSK	2310.0	2310.0	25.54	23.44	0.221	8955	8M96G7W
	QPSK			25.60	23.50	0.224	8935	8M94G7W
	16QAM			24.82	22.72	0.187	8931	8M93D7W

LTE BAND 41

Part 27								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)_(Ant3)		1.80						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	2498.5	2687.5	28.00	29.80	0.955	4489	4M49G7W
	16QAM			27.59	29.39	0.869	4492	4M49D7W
10.0	QPSK	2501.0	2685.0	28.00	29.80	0.955	8970	8M97G7W
	16QAM			27.47	29.27	0.845	8998	9M00D7W
15.0	QPSK	2503.5	2682.5	28.00	29.80	0.955	13467	13M5G7W
	16QAM			27.42	29.22	0.836	13455	13M5D7W
20.0	QPSK	2506.0	2680.0	28.00	29.80	0.955	17945	17M9G7W
	16QAM			26.97	28.77	0.753	17890	17M9D7W

5G NR n41

Part 27								
EIRP Limit (W)		2.00						
Antenna Gain (dBi)_(Ant3)		1.80						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
20.0	BPSK	2506.5	2680.0	27.98	29.78	0.951	17928	17M9G7W
	QPSK			28.00	29.80	0.955	17901	17M9G7W
	16QAM			27.50	29.30	0.851	17870	17M9D7W
30.0	BPSK	2511.0	2675.0	27.99	29.79	0.953	26822	26M8G7W
	QPSK			28.00	29.80	0.955	26880	26M9G7W
	16QAM			27.37	29.17	0.826	26817	26M8D7W
40.0	BPSK	2516.0	2670.0	28.00	29.80	0.955	35765	35M8G7W
	QPSK			27.90	29.70	0.933	35831	35M8G7W
	16QAM			27.49	29.29	0.849	35801	35M8D7W
50.0	BPSK	2521.0	2665.0	28.00	29.80	0.955	45832	45M8G7W
	QPSK			27.99	29.79	0.953	45862	45M9G7W
	16QAM			27.59	29.39	0.869	45814	45M8D7W
60.0	BPSK	2526.0	2660.0	27.87	29.67	0.927	57982	58M0G7W
	QPSK			28.00	29.80	0.955	58009	58M0G7W
	16QAM			27.41	29.21	0.834	57982	58M0D7W
70.0	BPSK	2531.0	2655.0	28.00	29.80	0.955	64440	64M4G7W
	QPSK			27.85	29.65	0.923	64246	64M2G7W
	16QAM			27.03	28.83	0.764	64489	64M5D7W
80.0	BPSK	2536.0	2650.0	27.90	29.70	0.933	77254	77M3G7W
	QPSK			28.00	29.80	0.955	77230	77M2G7W
	16QAM			27.36	29.16	0.824	77184	77M2D7W
90.0	BPSK	2541.0	2645.0	27.93	29.73	0.940	86794	86M8G7W
	QPSK			28.00	29.80	0.955	86907	86M9G7W
	16QAM			27.42	29.22	0.836	86829	86M8D7W
100.0	BPSK	2546.0	2640.0	28.00	29.80	0.955	96435	96M4G7W
	QPSK			27.96	29.76	0.946	96537	96M5G7W
	16QAM			26.98	28.78	0.755	96465	96M5D7W

LTE BAND 48

LOW CHANNEL

Part 96								
EIRP Limit (W)/ 10MHz		0.20						
Antenna Gain (dBi)_(Ant7)		-3.00						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	3552.5	3697.5	25.35	22.35	0.172	4473	4M47G7W
	16QAM			24.66	21.66	0.147	4481	4M48D7W
10.0	QPSK	3555.0	3695.0	25.30	22.30	0.170	8971	8M97G7W
	16QAM			24.74	21.74	0.149	8989	8M99D7W
15.0	QPSK	3557.5	3692.5	25.31	22.31	0.170	13308	13M3G7W
	16QAM			24.61	21.61	0.145	13484	13M5D7W
20.0	QPSK	3560.0	3690.0	25.32	22.32	0.171	17824	17M8G7W
	16QAM			24.83	21.83	0.152	17778	17M8D7W

MIDDLE CHANNEL

Part 96								
EIRP Limit (W)/ 10MHz		0.20						
Antenna Gain (dBi)_(Ant7)		-2.90						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	3552.5	3697.5	25.40	22.50	0.178	4473	4M47G7W
	16QAM			24.88	21.98	0.158	4481	4M48D7W
10.0	QPSK	3555.0	3695.0	25.40	22.50	0.178	8971	8M97G7W
	16QAM			24.80	21.90	0.155	8989	8M99D7W
15.0	QPSK	3557.5	3692.5	25.40	22.50	0.178	13308	13M3G7W
	16QAM			24.60	21.70	0.148	13484	13M5D7W
20.0	QPSK	3560.0	3690.0	25.38	22.48	0.177	17824	17M8G7W
	16QAM			24.81	21.91	0.155	17778	17M8D7W

HIGH CHANNEL

Part 96								
EIRP Limit (W)/ 10MHz		0.20						
Antenna Gain (dBi)_(Ant8)		-3.10						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	3552.5	3697.5	25.51	22.41	0.174	4473	4M47G7W
	16QAM			24.99	21.89	0.155	4481	4M48D7W
10.0	QPSK	3555.0	3695.0	25.56	22.46	0.176	8971	8M97G7W
	16QAM			24.83	21.73	0.149	8989	8M99D7W
15.0	QPSK	3557.5	3692.5	25.52	22.42	0.175	13308	13M3G7W
	16QAM			24.89	21.79	0.151	13484	13M5D7W
20.0	QPSK	3560.0	3690.0	25.55	22.45	0.176	17824	17M8G7W
	16QAM			25.29	22.19	0.166	17778	17M8D7W

LTE BAND 66

Part 27								
EIRP Limit (W)		1.00						
Antenna Gain (dBi)_(Ant3)		-1.00						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
1.4	QPSK	1710.7	1779.3	25.50	24.50	0.282	1088	1M09G7W
	16QAM			24.56	23.56	0.227	1080	1M08D7W
3.0	QPSK	1711.5	1778.5	25.50	24.50	0.282	2692	2M69G7W
	16QAM			24.63	23.63	0.231	2701	2M70D7W
5.0	QPSK	1712.5	1777.5	25.50	24.50	0.282	4500	4M50G7W
	16QAM			24.71	23.71	0.235	4496	4M50D7W
10.0	QPSK	1715.0	1775.0	25.50	24.50	0.282	8988	8M99G7W
	16QAM			24.68	23.68	0.233	9016	9M02D7W
15.0	QPSK	1717.5	1772.5	25.50	24.50	0.282	13441	13M4G7W
	16QAM			24.62	23.62	0.230	13459	13M5D7W
20.0	QPSK	1720.0	1770.0	25.50	24.50	0.282	17938	17M9G7W
	16QAM			24.89	23.89	0.245	17938	17M9D7W

5G NR n66

Part 27								
EIRP Limit (W)		1.00						
Antenna Gain (dBi)_(Ant3)		-1.00						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	1712.5	1777.5	25.48	24.48	0.281	4484	4M48G7W
	QPSK			25.50	24.50	0.282	4476	4M48G7W
	16QAM			24.83	23.83	0.242	4475	4M48D7W
10.0	BPSK	1715.0	1775.0	25.48	24.48	0.281	8937	8M94G7W
	QPSK			25.50	24.50	0.282	8933	8M93G7W
	16QAM			24.78	23.78	0.239	8918	8M92D7W
15.0	BPSK	1717.5	1772.5	25.43	24.43	0.277	13418	13M4G7W
	QPSK			25.50	24.50	0.282	13412	13M4G7W
	16QAM			24.85	23.85	0.243	13412	13M4D7W
20.0	BPSK	1720.0	1770.0	25.50	24.50	0.282	17860	17M9G7W
	QPSK			25.46	24.46	0.279	17891	17M9G7W
	16QAM			24.72	23.72	0.236	17864	17M9D7W
30.0	BPSK	1725.0	1765.0	25.40	24.40	0.275	28586	28M6G7W
	QPSK			25.50	24.50	0.282	28558	28M6G7W
	16QAM			24.80	23.80	0.240	28561	28M6D7W
40.0	BPSK	1730.0	1760.0	25.50	24.50	0.282	38587	38M6G7W
	QPSK			25.50	24.50	0.282	38557	38M6G7W
	16QAM			24.85	23.85	0.243	38564	38M6D7W

5G NR n70

Part 27								
EIRP Limit (W)		1.00						
Antenna Gain (dBi)_(Ant1)		-2.30						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	1697.5	1707.5	25.61	23.31	0.214	4482	4M48G7W
	QPSK			25.70	23.40	0.219	4476	4M48G7W
	16QAM			24.93	22.63	0.183	4474	4M47D7W
10.0	BPSK	1700.0	1705.0	25.69	23.39	0.218	8956	8M96G7W
	QPSK			25.70	23.40	0.219	8935	8M94G7W
	16QAM			24.96	22.66	0.185	8942	8M94D7W
15.0	BPSK	1702.5	1702.5	25.68	23.38	0.218	13432	13M4G7W
	QPSK			25.70	23.40	0.219	13399	13M4G7W
	16QAM			24.89	22.59	0.182	13386	13M4D7W

LTE BAND 71

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)_(Ant1)		-5.50						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	QPSK	665.5	695.5	25.70	18.05	0.064	4494	4M49G7W
	16QAM			25.41	17.76	0.060	4507	4M51D7W
10.0	QPSK	668.0	693.0	25.70	18.05	0.064	8976	8M98G7W
	16QAM			25.35	17.70	0.059	8962	8M96D7W
15.0	QPSK	670.5	690.5	25.70	18.05	0.064	13430	13M4G7W
	16QAM			25.33	17.68	0.059	13437	13M4D7W
20.0	QPSK	673.0	688.0	25.70	18.05	0.064	17896	17M9G7W
	16QAM			25.43	17.78	0.060	17913	17M9D7W

5G NR n71

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi)_(Ant1)		-5.50						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5.0	BPSK	665.5	695.5	25.69	18.04	0.064	4476	4M48G7W
	QPSK			25.70	18.05	0.064	4469	4M47G7W
	16QAM			25.24	17.59	0.057	4476	4M48D7W
10.0	BPSK	668.0	693.0	25.70	18.05	0.064	8929	8M93G7W
	QPSK			25.60	17.95	0.062	8924	8M92G7W
	16QAM			25.14	17.49	0.056	8912	8M91D7W
15.0	BPSK	670.5	690.5	25.70	18.05	0.064	13396	13M4G7W
	QPSK			25.65	18.00	0.063	13401	13M4G7W
	16QAM			25.20	17.55	0.057	13381	13M4D7W
20.0	BPSK	673.0	688.0	25.70	18.05	0.064	17833	17M8G7W
	QPSK			25.62	17.97	0.063	17831	17M8G7W
	16QAM			25.17	17.52	0.056	17810	17M8D7W

5G NR n77 (FCC Part 27 3450-3550MHz)

Part 27								
EIRP Limit (W)		1.00						
Antenna Gain (dBi)_(Ant9)		-2.90						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
10.0	BPSK	3455.0	3545.0	28.68	25.78	0.378	8694	8M69G7W
	QPSK			28.70	25.80	0.380	8640	8M64G7W
	16QAM			27.94	25.04	0.319	8693	8M69D7W
15.0	BPSK	3457.5	3542.5	28.62	25.72	0.373	13010	13M0G7W
	QPSK			28.70	25.80	0.380	12942	12M9G7W
	16QAM			28.05	25.15	0.327	13005	13M0D7W
20.0	BPSK	3460.0	3540.0	28.65	25.75	0.376	17878	17M9G7W
	QPSK			28.70	25.80	0.380	17869	17M9G7W
	16QAM			27.93	25.03	0.318	17849	17M8D7W
30.0	BPSK	3465.0	3535.0	28.57	25.67	0.369	26832	26M8G7W
	QPSK			28.70	25.80	0.380	26816	26M8G7W
	16QAM			27.77	24.87	0.307	26764	26M8D7W
40.0	BPSK	3470.0	3530.0	28.70	25.80	0.380	35654	35M7G7W
	QPSK			28.43	25.53	0.357	35780	35M8G7W
	16QAM			27.47	24.57	0.286	35727	35M7D7W
50.0	BPSK	3475.0	3525.0	28.70	25.80	0.380	45716	45M7G7W
	QPSK			28.65	25.75	0.376	45730	45M7G7W
	16QAM			28.09	25.19	0.330	45745	45M7D7W
60.0	BPSK	3480.0	3520.0	28.61	25.71	0.372	57907	57M9G7W
	QPSK			28.70	25.80	0.380	57846	57M8G7W
	16QAM			28.23	25.33	0.341	57860	57M9D7W
70.0	BPSK	3485.0	3515.0	28.56	25.66	0.368	64285	64M3G7W
	QPSK			28.70	25.80	0.380	64301	64M3G7W
	16QAM			28.08	25.18	0.330	64301	64M3D7W
80.0	BPSK	3490.0	3510.0	28.70	25.80	0.380	77151	77M2G7W
	QPSK			28.66	25.76	0.377	77075	77M1G7W
	16QAM			28.08	25.18	0.330	77143	77M1D7W
90.0	BPSK	3495.0	3505.0	28.67	25.77	0.378	86769	86M8G7W
	QPSK			28.70	25.80	0.380	86798	86M8G7W
	16QAM			28.20	25.30	0.339	86739	86M7D7W
100.0	BPSK	3500.0	3500.0	28.70	25.80	0.380	96419	96M4G7W
	QPSK			28.43	25.53	0.357	96385	96M4G7W
	16QAM			27.74	24.84	0.305	96398	96M4D7W

5G NR n77 (FCC Part 27 3700-3980MHz)

Part 27								
EIRP Limit (W)		1.00						
Antenna Gain (dBi)_(Ant7)		-3.60						
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
10.0	BPSK	3705.0	3975.0	28.68	25.08	0.322	8659	8M66G7W
	QPSK			28.70	25.10	0.324	8613	8M61G7W
	16QAM			27.88	24.28	0.268	8609	8M61D7W
15.0	BPSK	3707.5	3972.5	28.60	25.00	0.316	12910	12M9G7W
	QPSK			28.70	25.10	0.324	12989	13M0G7W
	16QAM			27.76	24.16	0.261	12949	12M9D7W
20.0	BPSK	3710.0	3970.0	28.66	25.06	0.321	17937	17M9G7W
	QPSK			28.70	25.10	0.324	17892	17M9G7W
	16QAM			27.84	24.24	0.265	17898	17M9D7W
30.0	BPSK	3715.0	3965.0	28.70	25.10	0.324	26855	26M9G7W
	QPSK			28.68	25.08	0.322	26843	26M8G7W
	16QAM			27.86	24.26	0.267	26814	26M8D7W
40.0	BPSK	3720.0	3960.0	28.60	25.00	0.316	35751	35M8G7W
	QPSK			28.70	25.10	0.324	35777	35M8G7W
	16QAM			27.84	24.24	0.265	35788	35M8D7W
50.0	BPSK	3725.0	3955.0	28.70	25.10	0.324	45819	45M8G7W
	QPSK			28.59	24.99	0.316	45764	45M8G7W
	16QAM			27.73	24.13	0.259	45793	45M8D7W
60.0	BPSK	3730.0	3950.0	28.67	25.07	0.321	57935	57M9G7W
	QPSK			28.70	25.10	0.324	57924	57M9G7W
	16QAM			27.83	24.23	0.265	57828	57M8D7W
70.0	BPSK	3735.0	3945.0	28.62	25.02	0.318	64566	64M6G7W
	QPSK			28.70	25.10	0.324	64655	64M7G7W
	16QAM			28.20	24.60	0.288	64586	64M6D7W
80.0	BPSK	3740.0	3940.0	28.62	25.02	0.318	77376	77M4G7W
	QPSK			28.70	25.10	0.324	77360	77M4G7W
	16QAM			27.95	24.35	0.272	77387	77M4D7W
90.0	BPSK	3745.0	3935.0	28.67	25.07	0.321	87125	87M1G7W
	QPSK			28.70	25.10	0.324	87073	87M1G7W
	16QAM			28.14	24.54	0.284	87148	87M1D7W
100.0	BPSK	3750.0	3930.0	28.69	25.09	0.323	96650	96M7G7W
	QPSK			28.70	25.10	0.324	96634	96M6G7W
	16QAM			28.03	24.43	0.277	96747	96M7D7W

6.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version: 0.15.02.

6.4. MAXIMUM ANTENNA GAIN

LTE and 5G NR Bands	Frequency Range (MHz)	ANT 1 Antenna Gain (dBi)	ANT 2 Antenna Gain (dBi)	ANT 3 Antenna Gain (dBi)	ANT 4 Antenna Gain (dBi)	ANT 7 Antenna Gain (dBi)	ANT 8 Antenna Gain (dBi)	ANT 9 Antenna Gain (dBi)
LTE Band 2, 5G NR n2	1850 – 1910	-3.4	-2.7	0.8	-1.3			
LTE Band 4	1710 – 1755	-2.4	-5.1	-1.4	-1.8			
LTE Band 5, 5G NR n5	824 – 849	-5.0	-5.2					
LTE Band 7, 5G NR n7	2500 – 2570	-2.4	-0.4	2.1	-2.9			
LTE Band 12, 5G NR n12	699 – 716	-5.0	-5.9					
LTE Band 13	777 – 787	-4.9	-5.3					
LTE Band 14, 5G NR n14	788 – 798	-4.9	-5.3					
LTE Band 17	704 – 716	-5.0	-5.9					
LTE Band 25, 5G NR n25	1850 – 1915	-3.4	-2.7	0.8	-1.3			
LTE Band 26, 5G NR n26	814 – 849	-5.0	-5.2					
LTE Band 30, 5G NR n30	2305 – 2315	-2.1	-2.2	-0.2	-1.0			
LTE Band 41, 5G NR n41	2496 – 2690	-2.3	-0.8	1.8	-1.8			
LTE Band 48 (Low)	3550 – 3600				-5.1	-3.0	-4.9	-2.1
LTE Band 48 (Mid)	3600 – 3650				-4.9	-2.9	-3.2	-1.8
LTE Band 48 (High)	3650 – 3700				-6.2	-3.2	-3.1	-3.1
LTE Band 66, 5G NR n66	1710 – 1780	-2.3	-5.3	-1.0	-1.9			
5G NR n70	1695 – 1710	-2.3	-4.7	-3.9	-2.1			
LTE Band 71, 5G NR n71	663 – 698	-5.5	-6.3					
5G NR n77	3450 – 3550				-3.3	-3.1	-5.6	-2.9
5G NR n77	3700 – 3980				-4.3	-3.6	-2.1	-3.6

The antenna(s) gain and type, as provided by the manufacturer' are as follows:

6.5. WORST-CASE CONFIGURATION AND MODE

The EUT supports the following LTE and 5G NRs:

Band 2, Band 4, Band 5, Band 7, Band 12, Band 13, Band 14, Band 17, Band 25, Band 26, Band 30, Band 41, Band 48, Band 66, Band 71, 5G NR n2, 5G NR n5, 5G NR n7, 5G NR n12, 5G NR n14, 5G NR n25, 5G NR n26, 5G NR n41, 5G NR n66, 5G NR n70, 5G NR n71, and 5G NR n77.

LTE Band 2 and 5G NR n2 (1850-1910MHz) are covered by LTE Band 25 and 5G NR n25 respectively. Because they are the subset of LTE band 25 and 5G NR n25 with the same output power and supported bandwidths.

LTE Band 4 (1710-1755MHz, 5/10/15/20MHz bandwidth) is covered by LTE Band 66. Because it is a subset of LTE band 66 and they have same output power.

FCC rule Part 22.905 (824-849MHz) of LTE Band 26 and 5G NR n26 are covered by LTE Band 5 and and 5G NR n5 of same rule since they have the same output power and supported bandwidths.

For 5G NRs, conducted spurious emission tests were conducted on wider bandwidth with inner 1RB since this is the worst bandwidth and the highest output power.

BPSK modulation applied only for 5G NR frequencies and has the same tune up power as QPSK modulations.

The DFT-s-OFDM and CP-OFDM waveforms were investigated, and DFT-s-OFDM was found to be the worst case.

The worst-case scenario for all measurements is based on an engineering evaluation made on different modulations. Then, QPSK and BPSK were observed as the worst mode to LTE bands and 5G NR bands respectively and set for all conducted and radiated. Output power measurements were measured on BPSK, QPSK, 16QAM, 64QAM, and 256QAM modulations. For testing purposes emissions on sections 8 and 9 were measured while QPSK/BPSK was set at or above target power for all bands. Conducted tests were performed on the worst case antenna port because it has the highest conducted power. The worst case antenna port is shown in the table below.

LTE and 5G NR Bands	Worst case Antenna Port for Conducted Power
5G NR n5	Ant 1
LTE BAND 7 and 5G NR n7	
LTE BAND 12 and 5G NR n12	
LTE BAND 13	
LTE BAND 14 and 5G NR n14	
LTE Band 17	
LTE BAND 25 and 5G NR n25	
LTE BAND 26 and 5G NR n26	
LTE BAND 30 and 5G NR n30	
LTE BAND 66 and 5G NR n66	
5G NR n70	
LTE BAND 71 and 5G NR n71	
5G NR n41	
5G NR n77	Ant 7
LTE BAND 48	Ant 8

The EUT was investigated in three orthogonal orientations X/Y/Z on all ANT 1, ANT2, ANT3, ANT4, ANT7, ANT8 and ANT 9 antennas to determine the worst case orientation. The following table exhibit the worst case orientation for different frequency bands. The full tests of the EUT have made upon the orientations that shown in the table below.

Frequency Bands	ANT1	ANT2	ANT3	ANT4	ANT7	ANT8	ANT9
663 – 849 MHz	Z	Z	N/A	N/A	N/A	N/A	N/A
1710 – 1915 MHz	Y	X	Y	Y	N/A	N/A	N/A
2300 – 2700 MHz	X	X	Y	Y	N/A	N/A	N/A
3300 – 3980 MHz	N/A	N/A	N/A	Y	Y	X	X

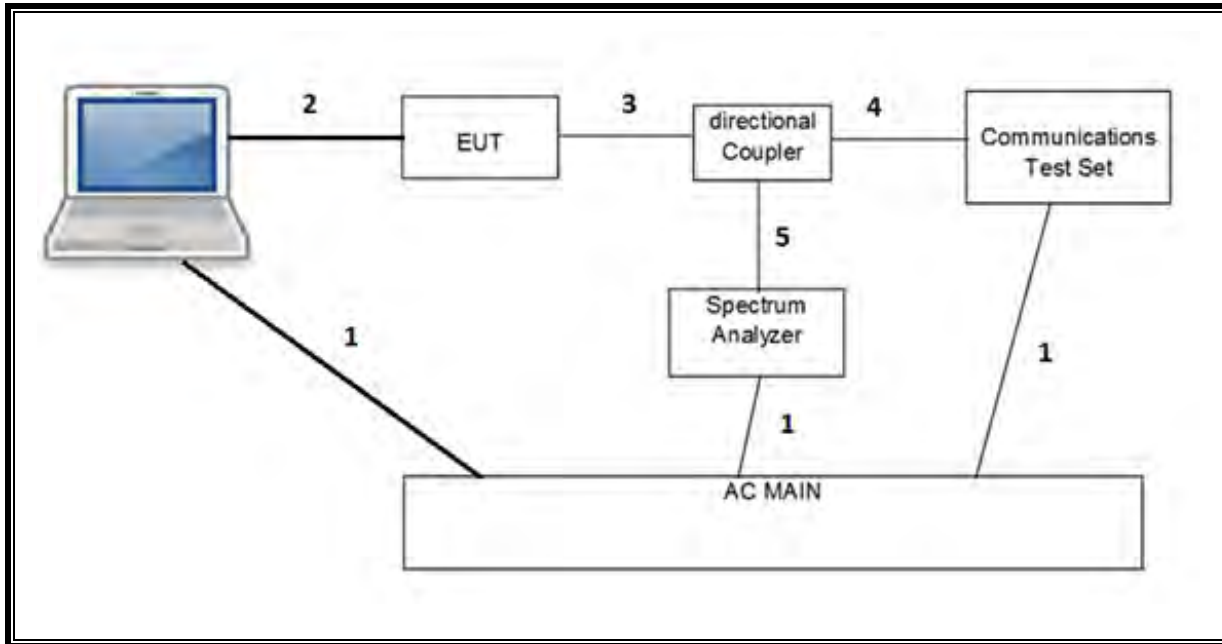
Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found with less than 20dB of margin from 9kHz to 1GHz.

For simultaneous transmission of multiple channels in the 2.4GHz/5GH WLAN, UWB, and Cellular bands, tests were conducted for various configurations having the highest power, least separation in frequencies and widest operation bandwidths. No noticeable new emission was found.

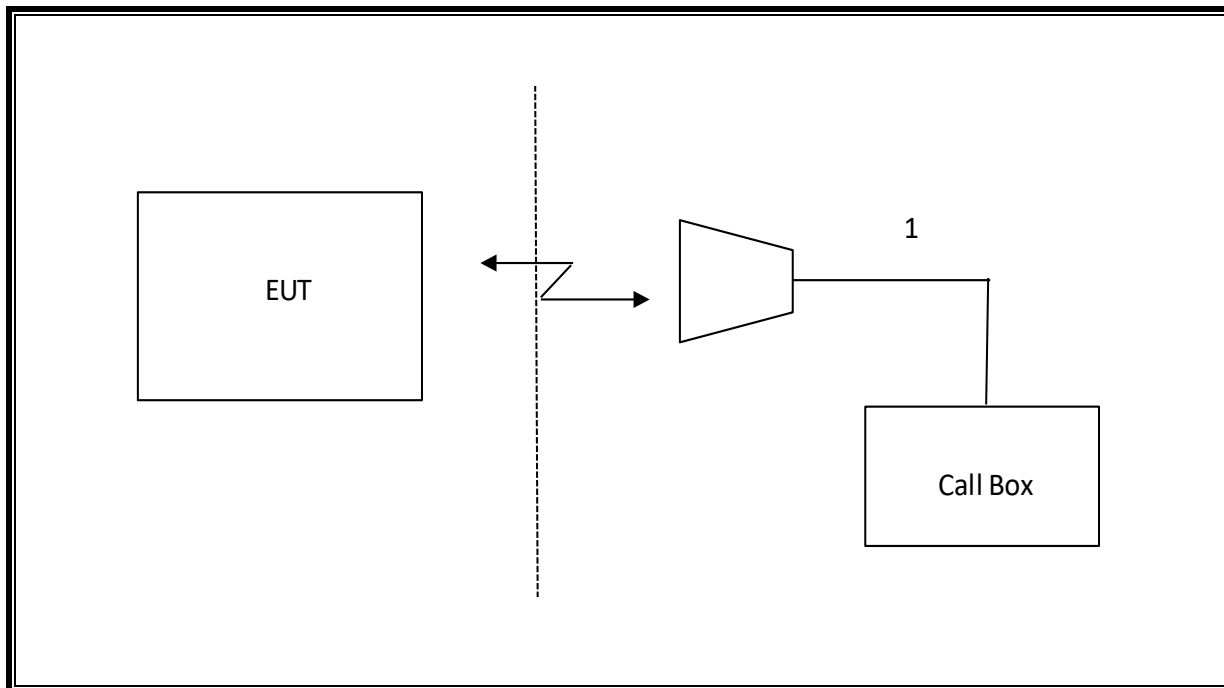
6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description	Manufacturer	Model	Serial Number	FCC ID/ DoC		
Laptop	Apple	MacBook Pro	HRP082673	BCGA1708		
AC/DC adapter	Apple	A1718	C4H64450HH3GN8RA6	--		
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	3	US 115V	Un-shielded	2.0	N/A
2	USB	1	DC	Un-shielded	1.0	N/A
3	RF In/Out	1	EUT	Un-shielded	0.6	N/A
4	RF In/Out	1	Communication Test Set	Un-shielded	1.2	N/A
5	RF In/Out	1	Barrel	N/A	N/A	N/A
I/O CABLES (RF RADIATED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	RF In/Out	1	Antenna	Un-shielded	5.0	N/A

CONDUCTED SETUP



RADIATED SETUP



7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Asset	Cal Due
*Antenna, Horn 1-18GHz	ETS Lindgren	3117	79834	06/14/2222
*Antenna, Horn 1-18GHz	ETS Lindgren	3117	80403	06/13//2022
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	85151	03/21/2023
*Amplifier, 1 to 18GHz	Miteq	AFS42-00101800-25-S-42	T1165	06/12/2022
Spectrum Analyzer, PXA 3Hz to 44GHz	Keysight	N9030A	85212	0/30/2023
Spectrum Analyzer, PSA, 3Hz to 44GHz	Keysight	N9030A	85213	01/19/2023
Spectrum Analyzer, PSA, 3Hz to 44GHz	Keysight	N9030A	125178	01/24/2023
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	85201	02/01/2023
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	85214	02/02/2023
Spectrum Analyzer, PXA 3Hz to 44GHz	Keysight	N9030A	80400	02/01/2023
Spectrum Analyzer, PXA 3Hz to 44GHz	Keysight	N9030A	80397	02/01/2023
Spectrum Analyzer, PXA, 3Hz to 50GHz w/Ext. Mixer	Keysight	N9030A	T342	02/01/2023
Spectrum Analyzer, PSA 3Hz to 44GHz	Keysight	E4440A	81311	02/02/2023
Directional Coupler	KRYTAR	152610	T1161	09/23/2022
Directional Coupler	KRYTAR	152610	T1536	09/23/2022
Directional Coupler	KRYTAR	152610	T1537	09/23/2022
Power Meter, P-series single channel	Keysight	N1912A	90630	01/24/2023
Power Meter, P-series single channel	Keysight	N1912A	90719	01/24/2023
Power Meter, P-series single channel	Agilent	N1911A	82174	01/24/2023
Power Sensor, P – series, 50MHz to 18GHz, Wideband	Keysight	N1921A	90389	01/25/2023
Filter, HPF 1.2GHz	Micro-Tronics	152043	152043	7/29/2022
Filter, BRF 1850 – 1910 MHz	Micro-Tronics	155055	155055	12/20/2022
Filter, BRF 2495 – 2690 MHz	Micro-Tronics	155050	155055	7/30/2022
Filter, BRF 3.4 – 3.8GHz	Micro-Tronics	208398	208398	7/30/2022
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	80397	02/01/2023
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	85827	02/21/2023
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	80105	02/21/2023
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	159994	02/23/2023
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	85806	02/22/2023
Wideband Communication Test Set, Call Box	R&S GmbH & Co. KG	CMW500	85943	02/20/2023
5G NR Communication Test Set, Call Box	Keysight	UXM	207269	01/24/2023
5G NR Communication Test Set, Call Box	Keysight	UXM	MY60101138	12/21/2023
*Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	T754	06/16/2022
*Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	T1154	06/15/2022
Amplifier, 218GHz to 26.5GHz	Ampical	AMP18G26.5-60	215705	02/26/2023
Amplifier, 26.5GHz to 40GHz	Ampical	AMP26G40-65	172346	02/01/2023
Antenna, Horn 18 to 26.5GHz	ARA	MWH-1826/B	172362	02/09/2023
Antenna, Horn 26.5GHz to 40GHz	ARA	MWH-2640/B	172365	03/08/2023
Antenna, Active Loop 9KHz to 30MHz	EMCO	6502	T35	10/05/2022
UL AUTOMATION SOFTWARE				
CLT Software	UL	UL RF	Ver 3.4, May 20, 2022	
Power Measurement Software	UL	UL RF	Ver 3.1.4, April 29, 2022	
Radiated test software	UL	UL RF	Ver 9.5, Jan 21, 2022	

NOTES:

* Testing is completed before equipment expiration date.

** Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

8. RF OUTPUT POWER VERIFICATION

CONDUCTED OUTPUT POWER MEASUREMENT PROCEDURE

All LTE bands conducted average power is obtained from the CMW500 telecommunication test set.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS136.101 specification.

UE Power Class: 3 (23 +/- 2dBm). Band 41 UE Power Class: 2 (26 +/-2 dBm). 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 TS136.101.

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 TS136.101 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
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36, 66, 70	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
NS_04	6.6.2.2.2, 6.6.3.3.19	41	20	>10	≤ 1
			5, 10, 15, 20	Table 6.2.4-4, Table 6.2.4-4a	

RESULTS

EUT includes different power levels for head use configuration and body use configuration and the below tables contain the highest of all configurations average conducted output powers as follows:

8.1. LTE BAND 5 AND 5G NR n5

LTE BAND 5

Test Engineer ID:	25780	Test Date:	2/14/2022
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OUTPUT POWER FOR LTE BAND 5 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)						
				ANT 1			ANT 2			
				26797	26915	27033	26797	26915	27033	
1.4	QPSK	1	0	25.58	25.56	25.53	24.54	24.55	24.56	
		1	2	25.68	25.69	25.56	24.66	24.65	24.59	
		1	5	25.65	25.66	25.55	24.63	24.62	24.56	
		3	0	25.67	25.55	25.57	24.68	24.61	24.56	
		3	1	25.70	25.57	25.59	24.68	24.62	24.58	
		3	2	25.70	25.64	25.57	24.70	24.63	24.59	
		6	0	24.98	24.87	24.86	23.69	23.62	23.56	
		16QAM	1	0	25.11	25.15	25.18	23.81	23.85	23.90
		1	2	25.22	25.28	25.25	23.89	23.91	23.94	
		1	5	25.21	25.25	25.22	23.88	23.95	23.90	
		3	0	25.11	25.05	25.06	23.85	23.77	23.76	
		3	1	25.12	25.01	25.03	23.87	23.81	23.74	
	3	2	25.10	25.11	25.03	23.87	23.81	23.74		
	6	0	24.04	23.94	23.90	22.77	22.72	22.68		
	64QAM	1	0	24.01	24.04	23.99	22.90	22.83	22.79	
	1	2	24.21	24.12	23.98	22.94	22.86	22.90		
	1	5	24.13	24.11	23.92	22.84	22.90	22.87		
	3	0	24.09	24.01	23.97	22.76	22.71	22.72		
	3	1	24.13	23.99	23.97	22.76	22.71	22.68		
	3	2	24.09	24.11	23.97	22.77	22.71	22.69		
	6	0	23.09	22.97	22.95	21.65	21.60	21.73		
	256QAM	1	0	20.94	20.93	20.98	19.73	19.66	19.69	
	1	2	21.10	20.96	20.98	19.79	19.76	19.72		
	1	5	20.99	20.98	20.97	19.79	19.72	19.64		
	3	0	21.01	20.94	20.90	19.66	19.61	19.57		
	3	1	21.01	20.91	20.91	19.68	19.63	19.59		
	3	2	21.02	20.99	20.90	19.69	19.59	19.55		
	6	0	21.11	20.93	20.93	19.58	19.61	19.68		

OUTPUT POWER FOR LTE BAND 5 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)						
				ANT 1			ANT 2			
				26805	26915	27025	26805	26915	27025	
3.0	QPSK	1	0	25.59	25.52	25.50	24.62	24.52	24.54	
		1	7	25.70	25.63	25.55	24.70	24.62	24.59	
		1	14	25.59	25.55	25.46	24.62	24.50	24.51	
		8	0	24.91	24.84	24.83	23.69	23.64	23.58	
		8	4	25.00	24.86	24.87	23.72	23.68	23.62	
		8	7	24.99	24.93	24.87	23.73	23.65	23.60	
		15	0	24.97	24.82	24.82	23.68	23.60	23.59	
		16QAM	1	0	25.24	25.15	25.12	23.92	24.00	23.93
		1	7	25.31	25.27	25.15	24.09	24.06	24.06	
		1	14	25.22	25.19	25.08	23.95	23.92	23.89	
		8	0	23.98	23.91	23.89	22.79	22.74	22.70	
		8	4	24.08	23.92	23.94	22.80	22.78	22.74	
		8	7	24.07	23.99	23.93	22.80	22.76	22.72	
		15	0	24.00	23.90	23.89	22.76	22.65	22.63	
		64QAM	1	0	24.08	24.15	24.02	22.87	22.80	22.87
	1	7	24.17	24.32	24.09	22.98	22.93	22.89		
	1	14	24.11	24.19	23.99	22.94	22.89	22.75		
	8	0	22.93	22.94	22.89	21.79	21.70	21.64		
	8	4	23.05	22.98	22.94	21.82	21.69	21.65		
	8	7	23.06	23.06	22.92	21.80	21.71	21.64		
	15	0	22.98	22.88	22.88	21.75	21.66	21.60		
	256QAM	1	0	20.88	20.84	21.00	19.72	19.72	19.64	
	1	7	21.07	21.00	20.96	19.86	19.83	19.77		
	1	14	20.93	20.91	20.82	19.72	19.69	19.65		
	8	0	20.88	20.86	20.85	19.70	19.64	19.61		
	8	4	21.00	20.90	20.87	19.74	19.65	19.60		
	8	7	20.99	20.97	20.86	19.73	19.65	19.60		
	15	0	20.94	20.86	20.84	19.71	19.62	19.58		

OUTPUT POWER FOR LTE BAND 5 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				26815	26915	27015	26815	26915	27015
5.0	QPSK	1	0	25.57	20.89	25.46	24.61	24.52	24.51
		1	12	25.70	25.53	25.55	24.70	24.67	24.61
		1	24	25.59	25.65	25.45	24.63	24.52	24.48
		12	0	24.83	25.54	24.75	23.59	23.51	23.48
		12	6	24.92	24.79	24.83	23.68	23.61	23.57
		12	11	24.91	24.82	24.81	23.66	23.58	23.53
		25	0	24.91	24.85	24.73	23.66	23.58	23.48
	16QAM	1	0	25.24	24.80	25.18	24.01	23.89	23.91
		1	12	25.36	25.21	25.20	24.06	24.05	24.05
		1	24	25.29	25.31	25.12	24.03	23.88	23.86
		12	0	23.94	25.21	23.77	22.60	22.51	22.51
		12	6	24.03	23.76	23.84	22.70	22.58	22.60
		12	11	24.01	23.75	23.81	22.66	22.55	22.56
		25	0	23.95	23.79	23.76	22.68	22.59	22.50
	64QAM	1	0	24.12	23.81	24.08	22.88	22.85	22.79
		1	12	24.21	24.15	24.14	22.90	22.90	22.84
		1	24	24.17	24.17	24.05	22.85	22.82	22.78
		12	0	22.86	24.09	22.69	21.53	21.61	21.47
		12	6	22.94	22.86	22.78	21.63	21.66	21.56
		12	11	22.92	22.87	22.73	21.60	21.67	21.51
		25	0	22.93	22.91	22.74	21.66	21.60	21.46
	256QAM	1	0	21.03	22.82	20.92	19.68	19.69	19.61
		1	12	21.14	20.90	21.02	19.75	19.74	19.64
		1	24	21.05	20.97	20.93	19.70	19.71	19.65
		12	0	20.82	20.93	20.74	19.58	19.51	19.48
12		6	20.94	20.82	20.82	19.66	19.60	19.55	
12		11	20.89	20.83	20.80	19.64	19.56	19.52	
25		0	20.89	20.88	20.71	19.65	19.58	19.45	

OUTPUT POWER FOR LTE BAND 5 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)						
				ANT 1			ANT 2			
				26840	26915	26990	26840	26915	26990	
10.0	QPSK	1	0	25.70	25.66	25.58	24.69	24.67	24.64	
		1	24	25.65	25.64	25.58	24.70	24.66	24.63	
		1	49	25.64	25.60	25.55	24.64	24.60	24.56	
		25	0	25.00	24.95	24.89	23.70	23.64	23.62	
		25	12	25.06	24.91	24.96	23.76	23.70	23.62	
		25	24	25.03	24.98	24.92	23.72	23.68	23.68	
		50	0	25.05	24.91	24.87	23.77	23.71	23.61	
		16QAM	1	0	25.38	25.34	25.35	24.08	24.14	24.15
			1	24	25.26	25.20	25.27	23.97	24.05	24.04
			1	49	25.30	25.25	25.29	24.02	24.00	24.00
	25		0	24.03	24.00	23.90	22.73	22.72	22.70	
	25		12	24.05	23.98	23.94	22.79	22.74	22.66	
	25		24	24.06	24.03	23.93	22.77	22.74	22.71	
	50		0	24.05	23.95	23.90	22.78	22.74	22.65	
	64QAM	1	0	24.24	24.28	24.21	22.97	22.92	22.88	
		1	24	24.17	24.25	24.14	22.97	22.90	22.84	
		1	49	24.16	24.21	24.13	22.90	22.81	22.75	
		25	0	22.97	22.98	22.89	21.70	21.67	21.66	
		25	12	23.05	22.95	22.94	21.77	21.72	21.62	
		25	24	23.02	22.99	22.93	21.74	21.71	21.67	
		50	0	23.03	22.94	22.89	21.76	21.71	21.66	
	256QAM	1	0	21.08	21.08	20.98	19.84	19.79	19.80	
		1	24	21.03	21.12	21.04	19.90	19.81	19.82	
		1	49	21.03	20.99	20.90	19.81	19.71	19.71	
		25	0	20.96	20.96	20.89	19.70	19.68	19.65	
		25	12	21.03	20.94	20.96	19.76	19.72	19.64	
		25	24	21.01	21.00	20.92	19.73	19.68	19.68	
		50	0	21.02	20.91	20.85	19.75	19.71	19.62	

5G NR n5

Test Engineer ID:	50822	Test Date:	2/3/2022
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OUTPUT POWER FOR 5G NR n5 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				165300	167300	169300	165300	167300	169300
5.0	BPSK	1	0	24.12	24.13	24.20	23.20	23.19	23.15
		1	1	25.64	25.69	25.66	24.57	24.63	24.61
		1	23	25.70	25.66	25.59	24.62	24.61	24.53
		1	24	24.13	24.11	24.10	23.06	23.09	23.08
		12	6	25.60	25.67	25.70	24.58	24.63	24.58
		25	0	25.34	25.40	25.38	24.34	24.34	24.30
	QPSK	1	0	24.13	24.11	24.20	23.14	23.20	23.13
		1	1	25.65	25.61	25.70	24.59	24.70	24.61
		1	23	25.67	25.68	25.63	24.59	24.64	24.59
		1	24	24.16	24.18	24.08	23.15	23.13	23.07
		12	6	25.61	25.68	25.67	24.58	24.63	24.57
		25	0	24.16	24.18	24.08	23.87	23.95	23.90
	16QAM	1	0	24.18	24.12	24.20	23.13	23.24	23.15
		1	1	25.19	25.24	25.20	24.11	24.16	24.15
		1	23	25.24	25.19	25.16	24.14	24.10	24.09
		1	24	24.26	24.12	24.16	23.11	23.03	23.01
		12	6	24.96	24.97	24.90	23.96	23.97	23.87
		25	0	24.03	23.95	23.94	22.83	22.88	22.79
	64QAM	1	0	23.47	23.63	23.58	22.54	22.56	22.50
		1	1	23.60	23.67	23.52	22.56	22.56	22.53
		1	23	23.69	23.61	23.53	22.50	22.52	22.46
		1	24	23.59	23.58	23.58	22.52	22.52	22.46
		12	6	23.53	23.51	23.48	22.16	22.29	22.27
		25	0	23.45	23.43	23.38	22.34	22.40	22.25
	256QAM	1	0	21.38	21.50	21.37	20.33	20.38	20.37
		1	1	21.43	21.46	21.44	20.34	20.44	20.36
		1	23	21.41	21.38	21.39	20.32	20.37	20.24
		1	24	21.41	21.41	21.41	20.37	20.24	20.28
		12	6	21.56	21.45	21.37	20.37	20.28	20.25
		25	0	21.47	21.46	21.37	20.33	20.44	20.25

OUTPUT POWER FOR 5G NR n5 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				165800	167300	168800	165800	167300	168800
10.0	BPSK	1	0	25.42	25.44	25.41	24.41	24.44	24.42
		1	1	25.63	25.62	25.57	24.57	24.61	24.62
		1	50	25.60	25.58	25.64	24.57	24.65	24.63
		1	51	25.43	25.38	25.39	24.38	24.40	24.40
		25	12	25.62	25.61	25.62	24.54	24.66	24.64
		50	0	25.47	25.47	25.43	24.48	24.52	24.54
	QPSK	1	0	24.96	24.96	24.97	23.99	24.00	24.00
		1	1	25.61	25.64	25.64	24.63	24.67	24.70
		1	50	25.62	25.58	25.65	24.63	24.63	24.65
		1	51	24.94	24.96	24.84	23.92	23.96	23.92
		25	12	25.68	25.67	25.70	24.67	24.67	24.70
		50	0	24.95	24.94	24.99	23.91	24.02	24.00
	16QAM	1	0	24.22	24.11	24.24	23.19	23.08	23.10
		1	1	25.14	25.10	25.16	24.15	24.26	24.16
		1	50	25.09	25.07	25.10	24.13	24.07	24.13
		1	51	24.09	24.17	24.06	23.10	23.11	23.20
		25	12	24.98	24.97	24.91	23.96	23.97	23.90
		50	0	24.00	23.98	24.00	22.98	22.99	22.99
	64QAM	1	0	23.58	23.50	23.54	22.52	22.62	22.49
		1	1	23.56	23.57	23.59	22.56	22.47	22.47
		1	50	23.56	23.47	23.61	22.46	22.72	22.57
		1	51	23.46	23.45	23.58	22.59	22.66	22.56
		25	12	23.40	23.39	23.40	22.55	22.49	22.42
		50	0	23.42	23.42	23.41	22.50	22.47	22.46
	256QAM	1	0	21.42	21.34	21.31	20.36	20.36	20.40
		1	1	21.32	21.31	21.35	20.45	20.43	20.40
		1	50	21.28	21.34	21.28	20.30	20.55	20.34
		1	51	21.30	21.36	21.34	20.34	20.51	20.34
		25	12	21.46	21.46	21.39	20.50	20.46	20.48
		50	0	21.42	21.44	21.47	20.51	20.49	20.48

OUTPUT POWER FOR 5G NR n5 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				166300	167300	168300	166300	167300	168300
15.0	BPSK	1	0	25.42	25.34	25.32	24.43	24.42	24.35
		1	1	25.68	25.59	25.48	24.57	24.63	24.53
		1	77	25.52	25.52	25.45	24.59	24.66	24.60
		1	78	25.37	25.41	25.31	24.41	24.44	24.42
		36	18	25.45	25.41	25.41	24.51	24.43	24.51
		75	0	25.28	25.26	25.28	24.39	24.33	24.36
	QPSK	1	0	24.97	24.92	24.77	23.94	23.97	23.93
		1	1	25.70	25.66	25.50	24.60	24.70	24.62
		1	77	25.55	25.64	25.50	24.66	24.66	24.59
		1	78	24.84	24.94	24.60	23.94	23.94	23.91
		36	18	25.56	25.51	25.46	24.57	24.52	24.56
		75	0	24.85	24.77	24.77	23.89	23.87	23.90
	16QAM	1	0	24.24	24.10	24.04	23.24	23.17	23.12
		1	1	25.13	25.08	24.96	24.24	24.37	23.99
		1	77	25.10	25.12	24.86	24.18	24.24	24.12
		1	78	23.99	24.13	23.88	23.11	23.15	23.11
		36	18	24.83	24.73	24.79	23.90	23.88	23.81
		75	0	23.86	23.84	23.80	22.93	22.96	22.88
	64QAM	1	0	23.62	23.59	23.38	22.63	22.61	22.62
		1	1	23.70	23.49	23.54	22.67	22.58	22.53
		1	77	23.47	23.51	23.48	22.60	22.66	22.54
		1	78	23.40	23.49	23.41	22.55	22.50	22.47
		36	18	23.40	23.33	23.34	22.47	22.42	22.41
		75	0	23.30	23.30	23.25	22.38	22.32	22.35
	256QAM	1	0	21.38	21.32	21.22	20.37	20.41	20.32
		1	1	21.35	21.27	21.17	20.37	20.33	20.31
		1	77	21.39	21.35	21.35	20.47	20.43	20.39
		1	78	21.33	21.35	21.27	20.49	20.37	20.27
		36	18	21.31	21.23	21.22	20.39	20.31	20.36
		75	0	21.34	21.35	21.28	20.39	20.39	20.36

OUTPUT POWER FOR 5G NR n5 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				166800	167300	167800	166800	167300	167800
20.0	BPSK	1	0	25.52	25.50	25.41	24.46	24.44	24.38
		1	1	25.68	25.70	25.70	24.65	24.61	24.58
		1	104	25.67	25.64	25.59	24.67	24.63	24.51
		1	105	25.45	25.48	25.41	24.48	24.42	24.33
		50	25	25.58	25.53	25.64	24.56	24.52	24.54
		100	0	25.36	25.36	25.42	24.42	24.35	24.31
	QPSK	1	0	25.04	24.96	24.95	23.92	23.94	23.95
		1	1	25.66	25.69	25.64	24.61	24.65	24.61
		1	104	25.69	25.63	25.53	24.70	24.56	24.54
		1	105	24.98	24.75	24.59	23.95	23.86	23.87
		50	25	25.59	25.54	25.61	24.56	24.52	24.58
		100	0	24.90	24.86	24.93	23.87	23.85	23.80
	16QAM	1	0	24.16	24.22	24.14	22.76	23.28	23.09
		1	1	25.17	25.15	25.20	23.75	24.18	24.15
		1	104	25.10	24.91	25.01	23.76	24.07	24.02
		1	105	24.18	23.93	23.97	22.81	23.14	23.04
		50	25	24.86	24.90	24.92	23.85	23.79	23.87
		100	0	23.91	23.92	23.93	22.86	22.82	22.81
	64QAM	1	0	23.77	23.64	23.62	22.62	22.61	22.55
		1	1	23.58	23.55	23.67	22.50	22.67	22.51
		1	104	23.68	23.50	23.53	22.56	22.55	22.42
		1	105	23.44	23.45	23.59	22.69	22.48	22.36
		50	25	23.32	23.32	23.38	22.35	22.30	22.35
		100	0	23.36	23.37	23.44	22.40	22.32	22.38
	256QAM	1	0	21.49	21.58	21.40	20.47	20.47	20.33
		1	1	21.38	21.44	21.43	20.44	20.39	20.36
		1	104	21.50	21.52	21.40	20.58	20.35	20.41
		1	105	21.40	21.44	21.33	20.49	20.38	20.32
		50	25	21.34	21.40	21.43	20.35	20.25	20.36
		100	0	21.36	21.46	21.40	20.39	20.26	20.32

8.2. LTE BAND 7 AND 5G NR n7

LTE BAND 7

Test Engineer ID:	25780	Test Date:	2/7/2022
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OUTPUT POWER FOR LTE BAND 7 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				20775	21100	21425	20775	21100	21425	20775	21100	21425	20775	21100	21425
				2502.5	2535.0	2567.5	2502.5	2535.0	2567.5	2502.5	2535.0	2567.5	2502.5	2535.0	2567.5
5.0	QPSK	1	0	25.47	25.43	25.54	23.45	23.41	23.55	24.41	24.70	24.91	22.69	22.88	23.03
		1	12	25.61	25.59	25.70	23.59	23.53	23.70	24.73	24.85	25.00	22.90	22.98	23.20
		1	24	25.54	25.51	25.62	23.54	23.47	23.59	24.88	24.80	24.99	22.92	22.94	23.13
		12	0	24.79	24.76	24.88	22.45	22.43	22.54	23.52	23.74	23.91	21.76	21.87	21.98
		12	6	24.78	24.85	24.95	22.56	22.50	22.63	23.67	23.79	23.97	21.87	21.96	22.12
		12	11	24.81	24.87	24.97	22.58	22.52	22.66	23.75	23.82	23.99	21.91	21.99	22.16
	16QAM	25	0	24.79	24.82	24.92	22.53	22.48	22.62	23.67	23.77	23.95	21.86	21.92	22.04
		1	0	25.12	25.12	25.30	22.84	22.79	22.96	23.77	24.14	24.28	22.11	22.19	22.39
		1	12	25.29	25.28	25.34	23.01	23.01	23.05	24.07	24.24	24.41	22.24	22.29	22.53
		1	24	25.17	25.18	25.32	22.92	22.89	23.03	24.21	24.21	24.38	22.29	22.30	22.50
		12	0	23.77	23.80	23.75	21.52	21.53	21.68	22.48	22.83	22.94	20.87	20.91	20.95
		12	6	23.85	23.88	23.81	21.61	21.63	21.75	22.62	22.90	23.00	20.99	20.99	21.10
	64QAM	12	11	23.87	23.89	23.84	21.64	21.65	21.78	22.70	22.92	23.02	21.04	21.02	21.11
		25	0	23.83	23.82	23.95	21.55	21.58	21.65	22.65	22.80	22.96	20.87	20.96	21.06
		1	0	24.00	24.06	24.11	21.68	21.74	21.83	22.72	22.98	23.22	20.99	21.12	21.29
		1	12	24.06	24.17	24.18	21.80	21.84	21.88	22.89	23.05	23.32	21.18	21.16	21.41
		1	24	24.12	24.15	24.13	21.77	21.80	21.85	23.11	23.06	23.28	21.26	21.20	21.35
		12	0	22.71	22.70	22.92	20.45	20.40	20.60	21.64	21.73	21.88	19.76	19.91	19.90
	256QAM	12	6	22.80	22.80	23.00	20.55	20.48	20.69	21.80	21.80	21.96	19.89	19.98	20.06
		12	11	22.81	22.81	23.02	20.58	20.50	20.70	21.87	21.81	21.98	19.96	19.99	20.09
		25	0	22.80	22.83	22.91	20.54	20.47	20.59	21.68	21.77	21.96	19.86	19.91	20.04
		1	0	20.81	20.84	20.93	18.63	18.49	18.60	19.53	19.80	20.01	17.77	18.03	18.15
		1	12	20.91	20.89	21.02	18.72	18.53	18.66	19.76	19.90	20.02	17.92	18.07	18.27
		1	24	20.88	20.82	20.93	18.70	18.49	18.62	19.91	19.88	20.03	18.01	18.04	18.25

OUTPUT POWER FOR LTE BAND 7 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				20800	21100	21400	20800	21100	21400	20800	21100	21400	20800	21100	21400
				2505.0	2535.0	2565.0	2505.0	2535.0	2565.0	2505.0	2535.0	2565.0	2505.0	2535.0	2565.0
10.0	QPSK	1	0	25.62	25.59	25.62	23.57	23.57	23.62	24.47	24.78	24.93	22.79	22.95	23.13
		1	24	25.64	25.64	25.66	23.62	23.58	23.64	24.89	24.81	24.98	23.01	23.00	23.17
		1	49	25.65	25.65	25.70	23.65	23.60	23.70	25.00	24.83	24.95	23.07	23.05	23.20
		25	0	24.96	24.94	25.01	22.64	22.62	22.68	23.73	23.83	23.99	21.95	22.02	22.18
		25	12	24.93	24.98	25.04	22.61	22.64	22.72	23.81	23.84	24.01	21.96	22.05	22.23
		25	24	24.90	24.92	24.96	22.60	22.65	22.72	23.93	23.86	23.98	21.96	22.04	22.21
	16QAM	50	0	24.90	24.99	25.02	22.61	22.64	22.72	23.79	23.84	23.98	21.91	22.02	22.20
		1	0	25.29	25.24	25.34	23.02	22.97	23.02	23.83	24.16	24.27	22.14	22.33	22.60
		1	24	25.25	25.19	25.26	22.90	22.88	22.98	24.13	24.08	24.21	22.25	22.25	22.51
		1	49	25.33	25.31	25.28	22.99	22.96	23.07	24.38	24.21	24.28	22.43	22.41	22.62
		25	0	23.97	24.02	24.04	21.71	21.65	21.75	22.78	22.84	22.98	20.99	21.07	21.22
		25	12	23.94	24.02	24.05	21.67	21.68	21.77	22.89	22.88	23.01	21.01	21.10	21.25
	64QAM	25	24	23.92	23.94	23.98	21.66	21.66	21.78	22.97	22.86	23.01	21.01	21.08	21.24
		50	0	23.92	23.97	24.03	21.63	21.67	21.74	22.79	22.84	23.00	20.95	21.04	21.21
		1	0	24.18	24.14	24.22	21.87	21.84	21.90	22.77	23.01	23.21	21.02	21.24	21.39
		1	24	24.18	24.18	24.22	21.91	21.84	21.92	23.15	23.04	23.25	21.23	21.31	21.37
		1	49	24.22	24.19	24.27	21.94	21.88	21.93	23.29	23.08	23.25	21.34	21.34	21.49
		25	0	22.96	22.95	23.01	20.68	20.62	20.66	21.75	21.83	21.99	19.99	20.02	20.18
	256QAM	25	12	22.92	22.99	23.03	20.64	20.66	20.72	21.85	21.85	22.01	19.97	20.06	20.18
		25	24	22.90	22.89	22.97	20.63	20.65	20.72	21.94	21.87	22.00	20.01	20.03	20.18
		50	0	22.90	22.96	23.02	20.62	20.65	20.66	21.83	21.84	21.99	19.97	20.03	20.18
		1	0	21.03	21.00	21.07	18.75	18.73	18.67	19.58	19.92	20.12	17.92	18.07	18.31
		1	24	21.13	21.06	21.14	18.83	18.78	18.75	20.03	19.95	20.12	18.15	18.13	18.37
		1	49	21.03	20.97	21.03	18.76	18.71	18.72	20.08	19.85	19.98	18.08	18.17	18.34

OUTPUT POWER FOR 5G NR n7 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				504000	507000	510000	504000	507000	510000	504000	507000	510000	504000	507000	510000
40.0	BPSK	1	0	25.42	25.41	25.43	23.29	23.35	23.58	24.11	24.58	24.67	22.66	22.91	22.94
		1	1	25.50	25.62	25.67	23.46	23.61	23.59	24.33	24.92	24.84	22.82	23.00	23.02
		1	214	25.58	25.49	25.70	23.52	23.64	23.70	24.88	25.00	24.79	22.97	23.18	23.20
		1	215	25.36	25.40	25.51	23.49	23.47	23.61	24.72	24.85	24.75	22.77	23.12	23.03
		108	54	23.31	25.51	22.09	21.22	23.53	20.18	24.84	24.88	24.85	23.09	23.02	23.08
		216	0	22.71	25.35	21.86	20.67	23.39	19.97	24.69	24.75	24.65	22.85	22.91	22.92
	QPSK	1	0	20.75	24.97	21.41	18.62	23.00	19.44	23.65	24.22	22.20	22.30	22.36	22.40
		1	1	21.88	25.66	22.49	19.70	23.60	20.52	24.37	24.91	23.00	22.74	23.05	23.06
		1	214	22.25	25.60	20.36	20.38	23.59	18.61	24.95	24.85	21.35	23.10	23.20	23.07
		1	215	21.10	25.00	19.30	19.27	22.98	17.66	24.15	24.27	19.96	22.34	22.37	22.11
		108	54	25.63	25.60	25.58	23.60	23.57	23.65	24.91	24.92	24.96	23.10	22.96	23.06
		216	0	24.86	24.90	24.69	22.84	22.91	22.96	24.11	24.27	24.22	22.32	22.29	22.43
	16QAM	1	0	23.91	24.23	23.96	22.12	22.24	22.01	22.72	23.47	23.38	21.33	21.60	21.38
		1	1	25.16	25.24	25.09	23.00	23.06	23.08	23.66	24.48	24.29	22.65	22.81	22.57
		1	214	25.18	24.99	24.18	23.05	22.45	22.29	24.36	24.61	24.38	22.48	22.67	22.56
		1	215	24.10	23.81	23.11	22.21	21.72	21.42	23.40	23.60	23.50	21.62	21.59	21.68
		108	54	24.88	24.85	24.82	22.94	22.86	22.88	24.17	24.22	24.21	22.34	22.30	22.44
		216	0	23.82	23.90	23.86	21.95	21.90	21.99	23.14	23.19	23.17	21.30	21.42	21.46
	64QAM	1	0	23.59	23.59	23.72	21.49	21.55	21.57	22.21	23.02	22.89	20.70	20.95	21.18
		1	1	23.77	23.85	23.60	21.56	21.69	21.82	22.42	22.77	22.98	20.76	20.94	21.12
		1	214	23.42	23.53	23.15	21.84	21.72	20.83	22.96	23.02	22.98	21.11	21.06	21.02
		1	215	23.71	23.47	23.24	21.59	21.32	21.06	23.22	22.86	22.70	21.05	21.17	21.23
		108	54	23.44	23.34	23.37	21.38	21.37	21.36	22.70	22.69	22.78	20.85	20.77	20.95
		216	0	23.48	23.37	23.44	21.44	21.43	21.43	22.64	22.71	22.71	20.86	20.91	20.98
	256QAM	1	0	21.38	21.59	21.40	19.45	19.32	19.35	20.00	20.66	20.76	18.73	18.82	18.92
		1	1	21.47	21.36	21.42	19.35	19.42	19.33	19.93	20.57	20.47	18.60	18.98	18.64
		1	214	21.43	21.56	21.45	19.50	19.70	19.65	20.85	20.90	20.73	18.91	19.05	19.00
		1	215	21.44	21.46	21.50	19.36	19.55	19.49	20.64	20.63	20.68	18.93	18.93	18.99
		108	54	21.34	21.33	21.37	19.32	19.41	19.27	20.57	20.56	20.60	18.78	18.78	18.88
		216	0	21.38	21.43	21.46	19.40	19.34	19.42	20.63	20.63	20.65	18.80	18.83	18.93

8.3. LTE BAND 12 AND 5G NR n12

LTE BAND 12

Test Engineer ID:	25602	Test Date:	1/31/2022
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OUTPUT POWER FOR LTE BAND 12 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				23017	23095	23173	23017	23095	23173
1.4	QPSK	1	0	25.56	25.56	25.64	24.67	24.69	24.65
		1	2	25.60	25.61	25.70	24.67	24.70	24.70
		1	5	25.55	25.56	25.61	24.63	24.65	24.64
		3	0	25.61	25.64	25.61	24.62	24.67	24.64
		3	1	25.61	25.62	25.64	24.66	24.69	24.65
		3	2	25.59	25.59	25.65	24.60	24.65	24.66
	16QAM	6	0	24.86	24.90	24.87	23.62	23.66	23.65
		1	0	25.09	25.06	25.29	24.00	24.00	24.04
		1	2	25.06	25.07	25.32	24.00	24.05	24.02
		1	5	25.06	25.03	25.26	23.99	24.02	23.99
		3	0	25.05	25.08	25.15	23.87	23.90	23.86
		3	1	25.06	25.03	25.09	23.83	23.88	23.89
	64QAM	3	2	25.05	25.05	25.11	23.86	23.87	23.85
		6	0	23.99	23.98	23.93	22.73	22.76	22.74
		1	0	24.28	24.09	24.31	22.92	22.90	22.95
		1	2	24.35	24.16	24.30	23.01	22.96	23.01
		1	5	24.25	24.00	24.23	22.90	22.89	22.95
		3	0	24.11	24.06	24.09	22.83	22.87	22.75
	256QAM	3	1	24.12	24.05	24.08	22.87	22.84	22.78
		3	2	24.11	24.05	24.06	22.84	22.83	22.80
		6	0	22.99	22.96	23.02	21.75	21.73	21.67
		1	0	20.94	20.99	21.05	19.75	19.67	19.67
		1	2	21.01	21.10	21.06	19.82	19.77	19.78
		1	5	20.99	21.02	21.08	19.77	19.65	19.69

OUTPUT POWER FOR LTE BAND 12 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				23025	23095	23165	23025	23095	23165
3.0	QPSK	1	0	25.56	25.59	25.61	24.58	19.68	24.60
		1	7	25.63	25.66	25.70	24.67	24.58	24.67
		1	14	25.53	25.58	25.58	24.53	24.70	24.56
		8	0	24.95	24.92	24.92	23.67	24.59	23.60
		8	4	24.94	25.00	24.93	23.68	23.61	23.60
		8	7	24.93	24.98	24.99	23.65	23.70	23.65
	16QAM	15	0	24.92	24.96	24.91	23.65	23.68	23.55
		1	0	25.18	25.22	25.23	23.88	23.65	23.91
		1	7	25.25	25.33	25.31	24.01	23.91	23.97
		1	14	25.09	25.16	25.21	23.85	24.03	23.87
		8	0	23.99	24.01	23.98	22.74	23.87	22.68
		8	4	24.03	24.08	23.94	22.76	22.68	22.71
	64QAM	8	7	23.99	24.08	23.99	22.72	22.76	22.77
		15	0	23.94	23.98	23.85	22.66	22.72	22.64
		1	0	24.19	24.14	24.19	22.90	22.68	22.82
		1	7	24.28	24.25	24.23	22.98	22.88	22.90
		1	14	24.19	24.13	24.16	22.88	22.95	22.79
		8	0	23.01	22.97	22.93	21.81	22.84	21.66
	256QAM	8	4	23.02	23.06	22.94	21.83	21.69	21.70
		8	7	23.01	23.06	23.00	21.81	21.75	21.76
		15	0	22.96	23.00	22.92	21.70	21.72	21.61
		1	0	20.87	20.97	20.97	19.75	21.66	19.68
		1	7	21.10	21.21	21.19	19.86	19.60	19.79
		1	14	20.93	20.99	20.99	19.68	19.86	19.69

OUTPUT POWER FOR LTE BAND 12 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				23035	23095	23155	23035	23095	23155
5.0	QPSK	1	0	25.52	25.53	25.59	24.54	24.53	24.56
		1	12	25.65	25.69	25.70	24.70	24.66	24.67
		1	24	25.53	25.56	25.57	24.54	24.56	24.56
		12	0	24.84	24.87	24.88	23.54	23.54	23.54
		12	6	24.91	24.94	24.90	23.61	23.63	23.57
		12	11	24.89	24.92	24.92	23.57	23.57	23.60
		25	0	24.88	24.92	24.85	23.59	23.60	23.60
	16QAM	1	0	25.18	25.24	25.30	23.86	23.91	23.96
		1	12	25.26	25.34	25.38	24.04	24.06	24.01
		1	24	25.24	25.26	25.24	23.93	23.92	23.95
		12	0	23.86	23.88	23.90	22.64	22.67	22.55
		12	6	23.96	23.97	23.91	22.73	22.77	22.55
		12	11	23.89	23.92	23.93	22.66	22.72	22.58
		25	0	23.93	23.93	23.85	22.61	22.67	22.66
	64QAM	1	0	24.11	24.13	24.12	22.89	22.88	22.91
		1	12	24.20	24.21	24.17	22.94	22.96	22.91
		1	24	24.19	24.16	24.06	22.91	22.89	22.86
		12	0	22.84	22.80	22.80	21.56	21.50	21.67
		12	6	22.93	22.88	22.80	21.66	21.57	21.67
		12	11	22.88	22.84	22.83	21.58	21.54	21.71
		25	0	22.91	22.88	22.89	21.65	21.63	21.62
	256QAM	1	0	20.92	20.82	20.92	19.56	19.60	19.61
		1	12	21.15	20.98	21.04	19.69	19.74	19.76
		1	24	21.06	20.96	20.95	19.63	19.64	19.72
		12	0	20.83	20.79	20.87	19.57	19.55	19.57
12		6	20.90	20.88	20.90	19.66	19.64	19.57	
12		11	20.87	20.86	20.90	19.59	19.60	19.58	
25		0	20.86	20.86	20.85	19.61	19.61	19.61	

OUTPUT POWER FOR LTE BAND 12 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				23060	23095	23130	23060	23095	23130
10.0	QPSK	1	0	25.63	25.67	25.67	24.69	24.69	24.70
		1	24	25.62	25.70	25.69	24.64	24.68	24.70
		1	49	25.54	25.63	25.60	24.59	24.62	24.62
		25	0	24.88	24.97	24.95	23.59	23.67	23.65
		25	12	24.97	25.03	25.03	23.70	23.74	23.67
		25	24	24.93	25.00	25.00	23.66	23.71	23.69
		50	0	24.95	25.01	25.01	23.69	23.73	23.66
	16QAM	1	0	25.29	25.36	25.35	24.03	24.06	24.11
		1	24	25.20	25.26	25.24	23.92	23.96	23.99
		1	49	25.23	25.32	25.31	23.90	23.96	23.96
		25	0	23.93	23.98	23.99	22.69	22.75	22.70
		25	12	23.99	24.04	24.05	22.74	22.81	22.71
		25	24	23.97	24.03	24.03	22.71	22.78	22.75
		50	0	23.97	24.03	24.01	22.69	22.76	22.66
	64QAM	1	0	24.26	24.23	24.28	22.91	22.96	23.01
		1	24	24.23	24.26	24.23	22.91	22.93	22.92
		1	49	24.21	24.19	24.18	22.84	22.82	22.92
		25	0	22.93	22.97	22.91	21.67	21.69	21.65
		25	12	22.98	23.03	22.99	21.74	21.77	21.64
		25	24	22.96	22.99	22.96	21.72	21.74	21.68
		50	0	22.97	23.02	22.97	21.72	21.74	21.62
	256QAM	1	0	20.85	21.03	20.96	19.66	19.73	19.75
		1	24	21.02	21.16	21.08	19.87	19.85	19.87
		1	49	21.01	21.11	21.04	19.86	19.85	19.86
		25	0	20.88	20.94	20.88	19.65	19.67	19.61
25		12	20.95	21.01	20.95	19.73	19.75	19.61	
25		24	20.93	20.98	20.93	19.69	19.72	19.64	
50		0	20.96	20.99	20.94	19.71	19.72	19.61	

5G NR n12

Test Engineer ID:	25602	Test Date:	2/2/2022
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OUTPUT POWER FOR 5G NR n12 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				140300	141500	142700	140300	141500	142700
5.0	BPSK	1	0	25.51	25.45	25.43	24.08	24.02	24.05
		1	1	25.64	25.64	25.65	24.63	24.54	24.58
		1	23	25.60	25.61	25.53	24.61	24.51	24.48
		1	24	25.40	25.39	25.35	24.12	24.13	24.04
		12	6	25.63	25.66	25.62	24.63	24.55	24.59
		25	0	25.36	25.33	25.34	24.04	23.96	23.96
	QPSK	1	0	24.99	24.53	24.61	23.68	23.59	23.56
		1	1	25.70	25.53	25.60	24.70	24.53	24.60
		1	23	25.54	25.60	25.60	24.68	24.43	24.56
		1	24	24.50	24.69	24.84	23.57	23.45	23.56
		12	6	25.64	25.63	25.61	24.60	24.46	24.56
		25	0	24.92	24.71	24.78	23.57	23.54	23.54
	16QAM	1	0	24.22	23.92	23.92	22.60	22.86	22.78
		1	1	25.17	24.92	24.94	23.51	23.76	23.84
		1	23	25.01	25.02	25.17	23.46	23.79	23.74
		1	24	24.01	24.06	24.11	22.45	22.88	22.76
		12	6	25.04	24.78	24.90	23.57	23.52	23.52
		25	0	23.92	23.68	23.70	22.64	22.50	22.47
	64QAM	1	0	23.54	23.35	23.37	22.36	22.15	22.20
		1	1	23.61	23.39	23.40	22.34	22.17	22.21
		1	23	23.44	23.58	23.52	22.29	22.21	22.21
		1	24	23.40	23.45	23.50	22.24	22.19	22.15
		12	6	23.34	23.26	23.30	22.21	22.01	22.05
		25	0	23.41	23.23	23.37	22.11	22.01	22.01
	256QAM	1	0	21.40	21.35	21.42	20.09	19.95	20.02
		1	1	21.39	21.35	21.37	20.16	19.90	20.00
		1	23	21.41	21.28	21.35	20.11	19.99	19.96
		1	24	21.28	21.27	21.32	20.07	19.98	19.99
		12	6	21.43	21.34	21.43	20.11	20.01	20.06
		25	0	21.34	21.36	21.37	20.11	20.00	20.03

OUTPUT POWER FOR 5G NR n12 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				140800	141500	142200	140800	141500	142200
10.0	BPSK	1	0	25.43	25.39	25.46	24.03	24.09	24.07
		1	1	25.64	25.61	25.64	24.52	24.62	24.49
		1	50	25.58	25.59	25.58	24.31	24.49	24.53
		1	51	25.35	25.43	25.40	23.92	24.04	23.99
		25	12	25.56	25.52	25.46	24.51	24.48	24.55
		50	0	25.38	25.39	25.36	24.01	23.99	23.96
	QPSK	1	0	24.99	24.68	24.66	23.65	23.60	23.56
		1	1	25.70	25.56	25.67	24.70	24.63	24.58
		1	50	25.55	25.49	25.57	24.50	24.54	24.48
		1	51	24.63	24.49	24.74	23.49	23.52	23.48
		25	12	25.62	25.59	25.54	24.58	24.51	24.58
		50	0	24.84	24.58	24.55	23.53	23.47	23.55
	16QAM	1	0	24.20	23.97	23.81	22.89	22.84	22.76
		1	1	25.25	24.89	24.92	23.96	23.82	23.81
		1	50	25.02	24.85	25.02	23.69	23.76	23.72
		1	51	24.01	23.93	24.02	22.68	22.77	22.76
		25	12	24.68	24.71	24.67	23.55	23.48	23.53
		50	0	23.90	23.66	23.69	22.51	22.49	22.55
	64QAM	1	0	23.54	23.42	23.41	22.22	22.31	22.13
		1	1	23.74	23.43	23.42	22.20	22.26	22.21
		1	50	23.38	23.37	23.42	22.13	22.19	22.27
		1	51	23.47	23.38	23.47	22.04	22.12	22.11
		25	12	23.34	23.31	23.28	22.02	22.04	22.08
		50	0	23.38	23.16	23.24	22.09	21.99	22.02
	256QAM	1	0	21.32	21.31	21.36	19.94	19.94	19.95
		1	1	21.33	21.25	21.37	19.93	20.02	19.96
		1	50	21.32	21.45	21.38	20.10	20.09	20.12
		1	51	21.35	21.40	21.36	20.08	20.03	19.99
		25	12	21.46	21.41	21.30	20.07	20.03	20.04
		50	0	21.43	21.40	21.30	20.00	19.92	20.02

OUTPUT POWER FOR 5G NR n12 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)						
				ANT 1			ANT 2			
				141300	141500	141700	141300	141500	141700	
15.0	BPSK	1	0	25.49	25.46	25.41	24.17	24.09	24.08	
		1	1	25.70	25.62	25.60	24.69	24.59	24.58	
		1	77	25.52	25.40	25.33	24.55	24.45	24.50	
		1	78	25.27	25.17	25.19	24.06	24.04	23.99	
		36	18	25.45	25.44	25.46	24.50	24.42	24.46	
		75	0	25.31	25.26	25.27	24.01	23.99	23.96	
		1	0	24.88	24.67	24.52	23.71	23.65	23.65	
	QPSK	1	1	25.67	25.67	25.44	24.70	24.67	24.58	
		1	77	25.30	25.35	25.30	24.59	24.52	24.57	
		1	78	24.34	24.37	24.23	23.58	23.52	23.53	
		36	18	25.30	25.34	25.30	24.56	24.38	24.50	
		75	0	24.27	24.05	24.17	23.58	23.55	23.56	
		16QAM	1	0	23.84	23.81	23.96	22.89	22.85	22.88
			1	1	24.71	24.92	24.83	23.97	23.85	23.90
	1		77	24.44	24.47	24.65	23.81	23.77	23.77	
	1		78	23.35	23.59	23.70	22.77	22.66	22.78	
	36		18	24.32	24.41	24.36	23.58	23.54	23.54	
	75		0	23.43	23.32	23.32	22.55	22.51	22.54	
	1		0	23.58	23.60	23.43	22.31	22.25	22.29	
	64QAM	1	1	23.57	23.61	23.32	22.29	22.18	22.38	
		1	77	23.17	23.31	23.20	22.18	22.13	22.12	
		1	78	23.25	23.35	23.24	22.16	22.21	22.26	
		36	18	22.97	23.00	23.03	22.05	22.05	22.02	
		75	0	22.96	22.87	22.72	22.07	22.05	22.01	
		256QAM	1	0	21.56	21.47	21.40	20.13	20.07	20.13
			1	1	21.56	21.49	21.40	20.10	20.08	20.06
	1		77	21.30	21.31	21.39	20.06	19.90	19.95	
	1		78	21.21	21.21	21.03	20.00	20.00	19.89	
	36		18	21.37	21.33	21.29	19.92	19.95	19.87	
	75		0	21.32	21.29	21.22	20.03	20.03	19.97	

8.4. LTE BAND 13

Test Engineer ID:	25602	Test Date:	1/31/2022
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OUTPUT POWER FOR LTE BAND 13 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)						
				ANT 1			ANT 2			
				23205	23230	23255	23205	23230	23255	
5.0	QPSK	1	0	25.59	25.56	25.56	24.61	24.56	24.57	
		1	12	25.70	25.65	25.68	24.70	24.67	24.68	
		1	24	25.59	25.58	25.57	24.59	24.57	24.58	
		12	0	24.81	24.81	24.82	23.53	23.51	23.54	
		12	6	24.92	24.94	24.87	23.66	23.62	23.64	
		12	11	24.90	24.89	24.90	23.64	23.59	23.62	
	16QAM	25	0	24.92	24.91	24.81	23.64	23.61	23.62	
		1	0	25.25	25.26	25.27	24.01	23.99	24.04	
		1	12	25.41	25.33	25.36	24.03	24.08	24.09	
		1	24	25.22	25.25	25.30	24.01	24.01	24.02	
		12	0	23.91	23.85	23.94	22.68	22.66	22.59	
		12	6	24.01	23.95	23.96	22.80	22.76	22.70	
	64QAM	12	11	23.99	23.93	24.01	22.76	22.73	22.67	
		25	0	23.97	23.93	23.88	22.68	22.63	22.67	
		1	0	24.18	24.15	24.17	22.93	22.84	22.84	
		1	12	24.22	24.17	24.25	22.95	22.87	22.89	
		1	24	24.18	24.09	24.17	22.90	22.79	22.86	
		12	0	22.96	22.86	22.86	21.53	21.57	21.65	
	256QAM	12	6	23.07	22.98	22.91	21.64	21.70	21.76	
		12	11	23.03	22.94	22.95	21.61	21.66	21.72	
		25	0	22.94	22.91	22.85	21.62	21.63	21.64	
		1	0	20.91	20.87	20.88	19.71	19.70	19.66	
		1	12	21.03	20.99	21.07	19.84	19.83	19.78	
		1	24	21.01	20.91	20.97	19.78	19.73	19.71	
		256QAM	12	0	20.85	20.85	20.82	19.51	19.51	19.57
			12	6	20.97	20.94	20.87	19.64	19.65	19.67
			12	11	20.93	20.90	20.92	19.59	19.60	19.63
			25	0	20.92	20.89	20.83	19.61	19.61	19.63

OUTPUT POWER FOR LTE BAND 13 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				N/A	23230	N/A	N/A	23230	N/A
10.0	QPSK	1	0		25.70				24.67
		1	24		25.70				24.70
		1	49		25.63				24.62
		25	0		24.95				23.63
		25	12		25.01				23.70
		25	24		24.98				23.67
	16QAM	50	0		25.04				23.71
		1	0		25.35				24.01
		1	24		25.24				23.98
		1	49		25.31				23.93
		25	0		24.00				22.70
		25	12		24.06				22.76
	64QAM	25	24		24.03				22.72
		50	0		24.05				22.74
		1	0		24.30				22.91
		1	24		24.29				22.91
		1	49		24.26				22.91
		25	0		22.94				21.64
	256QAM	25	12		23.03				21.69
		25	24		22.99				21.67
		50	0		23.04				21.71
		1	0		21.06				19.73
		1	24		21.14				19.83
		1	49		21.11				19.84
		256QAM	25	0		20.91			19.60
			25	12		20.98			19.68
			25	24		20.98			19.68
			50	0		21.01			20.67

8.5. LTE BAND 14 AND 5G NR n14

LTE BAND 14

Test Engineer ID:	25780	Test Date:	2/9/2022
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OUTPUT POWER FOR LTE BAND 14 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				23305	23330	23355	23305	23330	23355
5.0	QPSK	1	0	25.61	25.56	25.57	24.62	24.62	24.58
		1	12	25.70	25.61	25.68	24.69	24.70	24.69
		1	24	25.55	25.50	25.53	24.57	24.55	24.55
		12	0	24.94	24.92	24.83	23.67	23.71	23.58
		12	6	24.93	24.91	24.86	23.68	23.67	23.57
		12	11	24.86	24.83	24.86	23.61	23.62	23.57
	16QAM	25	0	24.90	24.86	24.80	23.64	23.65	23.54
		1	0	25.24	25.22	25.24	24.02	24.02	24.02
		1	12	25.32	25.25	25.39	24.09	24.09	24.03
		1	24	25.18	25.19	25.19	23.92	23.96	23.93
		12	0	24.03	23.91	23.81	22.74	22.71	22.65
		12	6	24.02	23.89	23.83	22.73	22.69	22.63
	64QAM	12	11	23.93	23.83	23.81	22.63	22.62	22.60
		25	0	23.96	23.89	23.83	22.69	22.65	22.58
		1	0	24.18	24.18	24.17	22.96	22.98	22.93
		1	12	24.20	24.18	24.21	23.03	22.96	22.96
		1	24	24.12	24.11	24.15	22.93	22.88	22.87
		12	0	22.90	22.97	22.81	21.73	21.74	21.52
	256QAM	12	6	22.92	22.97	22.83	21.74	21.77	21.52
		12	11	22.83	22.88	22.83	21.64	21.65	21.52
		25	0	22.91	22.88	22.83	21.66	21.65	21.56
		1	0	20.89	20.97	20.93	19.68	19.71	19.73
		1	12	21.03	21.13	21.07	19.83	19.85	19.87
		1	24	20.92	21.02	21.02	19.72	19.77	19.82
		12	0	20.95	20.90	20.83	19.70	19.69	19.58
		12	6	20.93	20.90	20.83	19.69	19.68	19.59
		12	11	20.85	20.83	20.83	19.60	19.60	19.58
		25	0	20.88	20.85	20.78	19.67	19.63	19.52

OUTPUT POWER FOR LTE BAND 14 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)						
				ANT 1			ANT 2			
				N/A	23330	N/A	N/A	23330	N/A	
10.0	QPSK	1	0		25.70				24.7	
		1	24		25.67				24.67	
		1	49		25.61				24.55	
		25	0		24.94				23.62	
		25	12		25.01				23.71	
		25	24		24.97				23.64	
	16QAM	50	0		24.98				23.67	
		1	0		25.48				24.05	
		1	24		25.29				23.96	
		1	49		25.34				23.95	
		25	0		23.92				22.66	
		25	12		24.00				22.72	
	64QAM	25	24		23.96				22.68	
		50	0		23.98				22.69	
		1	0		24.34				23.03	
		1	24		24.26				22.99	
		1	49		24.19				22.91	
		25	0		22.93				21.63	
	256QAM	25	12		23.03				21.7	
		25	24		23.01				21.66	
		50	0		22.99				21.68	
		1	0		20.95				19.68	
		1	24		21.11				19.86	
		1	49		21.02				19.7	
		25	0		20.93				19.61	
		25	12		21.00				19.68	
		25	24		20.94				19.63	
		50	0		20.95				19.66	

5G NR n14

Test Engineer ID:	25602	Test Date:	2/3/2022
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OUTPUT POWER FOR 5G NR n14 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				158100	158600	159100	158100	158600	159100
5.0	BPSK	1	0	23.65	23.59	23.70	22.63	22.70	22.63
		1	1	25.63	25.61	25.68	24.61	24.68	24.63
		1	23	25.53	25.61	25.60	24.59	24.57	24.46
		1	24	23.51	23.54	23.56	22.58	22.48	22.47
		12	6	25.62	25.60	25.70	24.65	24.65	24.57
		25	0	25.31	25.36	25.33	24.34	24.35	24.27
	QPSK	1	0	23.70	23.63	23.67	22.70	22.66	22.65
		1	1	25.68	25.62	25.63	24.70	24.69	24.60
		1	23	25.57	25.59	25.62	24.60	24.58	24.49
		1	24	23.60	23.65	23.65	22.57	22.58	22.51
		12	6	25.62	25.69	25.63	24.62	24.63	24.55
		25	0	24.86	24.98	24.91	23.89	23.89	23.86
	16QAM	1	0	23.67	23.58	23.70	22.60	22.66	22.54
		1	1	25.25	25.10	25.23	24.28	24.21	24.09
		1	23	25.16	25.20	25.02	24.02	24.11	23.91
		1	24	23.62	23.63	23.61	22.62	22.70	22.52
		12	6	24.94	24.96	24.92	24.03	23.89	22.68
		25	0	23.79	23.82	23.79	22.87	22.83	22.81
	64QAM	1	0	23.56	23.60	23.60	22.71	22.62	22.65
		1	1	23.50	23.53	23.55	22.53	22.67	22.72
		1	23	23.42	23.52	23.53	22.58	22.49	22.51
		1	24	23.54	23.52	23.47	22.40	22.43	22.52
		12	6	23.22	23.34	23.35	22.35	22.33	22.41
		25	0	23.33	23.46	23.34	22.48	22.39	22.35
	256QAM	1	0	21.29	21.27	21.33	20.40	20.39	20.38
		1	1	21.36	21.30	21.39	20.46	20.31	20.49
		1	23	21.28	21.35	21.33	20.41	20.26	20.31
		1	24	21.37	21.34	21.25	20.38	20.20	20.36
		12	6	21.36	21.45	21.29	20.45	20.32	20.38
		25	0	21.33	21.40	21.33	20.48	20.34	20.36

OUTPUT POWER FOR 5G NR n14 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				N/A	158600	N/A	N/A	158600	N/A
10.0	BPSK	1	0		23.70			22.70	
		1	1		25.70			24.65	
		1	50		25.60			24.45	
		1	51		23.53			22.53	
		25	12		25.48			24.58	
		50	0		25.41			24.32	
	QPSK	1	0		23.70			22.70	
		1	1		25.66			24.70	
		1	50		25.57			24.48	
		1	51		23.61			22.52	
		25	12		25.66			24.55	
		50	0		24.86			23.86	
	16QAM	1	0		23.70			22.70	
		1	1		25.20			24.22	
		1	50		25.08			24.01	
		1	51		23.59			22.30	
		25	12		24.86			23.81	
		50	0		23.84			22.86	
	64QAM	1	0		23.47			22.48	
		1	1		23.56			22.60	
		1	50		23.50			22.42	
		1	51		23.40			22.38	
		25	12		23.34			22.3	
		50	0		23.38			22.27	
	256QAM	1	0		21.21			20.27	
		1	1		21.24			20.39	
		1	50		21.32			20.27	
		1	51		21.27			20.24	
		25	12		21.37			20.34	
		50	0		21.43			20.32	

8.6. LTE BAND 17

Test Engineer ID:	25780	Test Date:	2/9/2022
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OUTPUT POWER FOR LTE BAND 17 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				23755	23790	23825	23755	23790	23825
5.0	QPSK	1	0	25.67	25.62	25.65	24.65	24.66	24.66
		1	12	25.70	25.64	25.64	24.69	24.65	24.70
		1	24	25.56	25.53	25.53	24.57	24.56	24.55
		12	0	24.94	24.92	24.91	23.66	23.63	23.64
		12	6	24.95	24.94	24.87	23.68	23.68	23.69
		12	11	24.88	24.86	24.86	23.63	23.60	23.59
	16QAM	25	0	24.95	24.93	24.83	23.68	23.66	23.66
		1	0	25.33	25.31	25.29	24.03	24.10	24.05
		1	12	25.42	25.36	25.34	24.04	24.04	24.08
		1	24	25.21	25.22	25.16	23.94	23.93	23.93
		12	0	23.89	23.91	23.83	22.70	22.54	22.70
		12	6	23.92	23.94	23.77	22.72	22.57	22.74
	64QAM	12	11	23.82	23.88	23.79	22.66	22.48	22.64
		25	0	23.96	23.93	23.83	22.71	22.69	22.66
		1	0	24.28	24.21	24.19	23.00	22.96	22.92
		1	12	24.22	24.14	24.21	22.96	22.90	22.92
		1	24	24.14	24.13	24.13	22.87	22.80	22.80
		12	0	22.98	22.93	22.93	21.66	21.71	21.70
	256QAM	12	6	23.02	22.95	22.89	21.70	21.74	21.75
		12	11	22.93	22.87	22.90	21.62	21.66	21.67
		25	0	22.96	22.94	22.85	21.69	21.65	21.67
		1	0	21.02	21.09	21.01	19.85	19.71	19.74
		1	12	21.00	21.16	21.02	19.84	19.69	19.72
		1	24	20.90	21.03	20.91	19.74	19.60	19.65
		12	0	20.93	20.92	20.92	19.65	19.63	19.63
		12	6	20.98	20.93	20.87	19.68	19.69	19.69
		12	11	20.89	20.86	20.88	19.61	19.60	19.60
		25	0	20.94	20.91	20.85	19.66	19.64	19.64

OUTPUT POWER FOR LTE BAND 17 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				23780	23790	23800	23780	23790	23800
10.0	QPSK	1	0	25.68	25.64	25.70	24.70	24.65	24.66
		1	24	25.68	25.67	25.69	24.65	24.63	24.63
		1	49	25.61	25.60	25.63	24.61	24.60	24.60
		25	0	25.01	24.98	25.00	23.67	23.66	23.67
		25	12	25.08	25.06	25.00	23.74	23.74	23.67
		25	24	25.00	25.00	24.99	23.65	23.67	23.67
	16QAM	50	0	25.03	25.03	24.97	23.71	23.69	23.63
		1	0	25.36	25.45	25.36	24.09	23.99	24.01
		1	24	25.24	25.34	25.25	23.90	23.91	23.92
		1	49	25.25	25.36	25.23	23.91	23.96	24.00
		25	0	24.06	24.05	24.02	22.69	22.69	22.73
		25	12	24.13	24.12	24.02	22.76	22.77	22.72
	64QAM	25	24	24.04	24.04	24.02	22.70	22.70	22.72
		50	0	24.05	24.04	23.95	22.72	22.72	22.64
		1	0	24.29	24.29	24.33	23.00	22.90	22.91
		1	24	24.29	24.29	24.26	22.95	22.82	22.84
		1	49	24.21	24.24	24.26	22.96	22.82	22.82
		25	0	23.02	22.99	23.02	21.69	21.67	21.69
	256QAM	25	12	23.11	23.08	23.04	21.77	21.77	21.70
		25	24	23.01	22.99	23.04	21.68	21.66	21.69
		50	0	23.05	23.05	22.98	21.74	21.70	21.66
		1	0	21.13	20.99	21.03	19.78	19.63	19.75
		1	24	21.20	21.10	21.13	19.88	19.74	19.78
		1	49	21.14	21.02	21.05	19.77	19.63	19.74
		25	0	20.98	20.99	21.01	19.67	19.66	19.67
		25	12	21.07	21.05	21.00	19.73	19.72	19.67
		25	24	20.99	20.98	21.00	19.66	19.65	19.67
		50	0	21.03	21.00	20.95	19.71	19.68	19.62

8.7. LTE BAND 25 AND 5G NR n25

LTE BAND 25

Test Engineer ID:	25780	Test Date:	3/2/2022
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OUTPUT POWER FOR LTE BAND 25 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				26047	26365	26683	26047	26365	26683	26047	26365	26683	26047	26365	26683
1.4	QPSK	1	0	25.63	25.63	25.51	23.36	23.30	23.25	25.42	25.43	25.36	23.26	23.28	23.17
		1	2	25.65	25.66	25.56	23.40	23.34	23.28	25.44	25.49	25.40	23.29	23.34	23.25
		1	5	25.70	25.63	25.53	23.35	23.31	23.24	25.48	25.45	25.42	23.28	23.33	23.18
		3	0	25.68	25.63	25.57	23.35	23.29	23.22	25.45	25.43	25.37	23.29	23.31	23.22
		3	1	25.66	25.61	25.58	23.35	23.32	23.25	25.48	25.45	25.36	23.38	23.38	23.23
		3	2	25.70	25.61	25.57	23.38	23.30	23.25	25.50	25.44	25.37	23.34	23.40	23.22
	16QAM	6	0	24.97	24.90	24.79	22.36	22.29	22.23	24.56	24.54	24.46	22.31	22.28	22.21
		1	0	25.24	25.30	25.10	22.73	22.63	22.62	24.81	24.87	24.82	22.30	22.28	22.16
		1	2	25.26	25.27	25.17	22.76	22.68	22.65	24.89	24.97	24.86	22.28	22.32	22.20
		1	5	25.26	25.25	25.15	22.72	22.68	22.62	24.82	24.91	24.80	22.20	22.29	22.07
		3	0	25.15	25.12	25.05	22.54	22.51	22.47	24.71	24.74	24.66	22.39	22.39	22.18
		3	1	25.13	25.14	25.06	22.56	22.51	22.44	24.72	24.76	24.67	22.36	22.41	22.18
	64QAM	3	2	25.17	25.12	25.07	22.57	22.48	22.44	24.74	24.75	24.64	22.34	22.39	22.18
		6	0	24.05	24.01	23.89	21.39	21.33	21.35	23.64	23.63	23.49	21.35	21.26	21.18
		1	0	24.14	24.16	24.01	21.68	21.47	21.52	23.94	23.87	23.57	21.34	21.26	21.28
		1	2	24.25	24.17	24.03	21.59	21.50	21.53	24.05	23.89	23.67	21.39	21.35	21.33
		1	5	24.24	24.16	24.04	21.60	21.46	21.52	23.95	23.89	23.58	21.38	21.25	21.21
		3	0	24.07	24.04	23.96	21.55	21.43	21.41	23.76	23.65	23.65	21.29	21.26	21.21
	256QAM	3	1	24.07	24.07	23.99	21.50	21.44	21.42	23.75	23.67	23.64	21.28	21.39	21.23
		3	2	24.11	24.06	23.99	21.49	21.42	21.40	23.73	23.68	23.62	21.31	21.31	21.26
		6	0	23.00	23.00	22.85	20.32	20.31	20.35	22.59	22.68	22.53	20.17	20.21	20.32
		1	0	20.98	20.93	20.86	18.50	18.37	18.34	20.72	20.64	20.62	18.32	18.24	18.20
		1	2	21.02	20.97	20.97	18.51	18.52	18.36	20.75	20.68	20.66	18.34	18.39	18.34
		1	5	21.01	21.01	20.94	18.43	18.42	18.35	20.71	20.70	20.59	18.30	18.40	18.25

OUTPUT POWER FOR LTE BAND 25 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				26055	26365	26675	26055	26365	26675	26055	26365	26675	26055	26365	26675
3.0	QPSK	1	0	25.59	25.58	25.55	23.35	23.28	23.23	25.38	25.28	25.16	23.32	23.29	23.18
		1	7	25.70	25.64	25.62	23.40	23.32	23.29	25.50	25.36	25.25	23.38	23.40	23.29
		1	14	25.58	25.59	25.57	23.33	23.29	23.20	25.42	25.31	25.17	23.29	23.35	23.20
		8	0	24.97	24.92	24.92	22.38	22.31	22.28	24.58	24.39	24.25	22.38	22.37	22.22
		8	4	25.00	24.95	24.94	22.41	22.34	22.29	24.61	24.49	24.26	22.42	22.39	22.33
		8	7	25.00	24.96	24.94	22.41	22.35	22.31	24.62	24.49	24.24	22.40	22.44	22.29
	16QAM	15	0	24.97	24.94	24.90	22.40	22.33	22.28	24.59	24.36	24.24	22.38	22.35	22.19
		1	0	25.32	25.22	25.19	22.67	22.62	22.58	24.85	24.71	24.58	22.37	22.29	22.27
		1	7	25.38	25.29	25.26	22.73	22.66	22.61	24.89	24.77	24.69	22.44	22.40	22.27
		1	14	25.38	25.21	25.17	22.69	22.69	22.54	24.83	24.69	24.59	22.33	22.33	22.22
		8	0	24.08	24.00	23.94	21.51	21.41	21.41	23.67	23.43	23.29	21.41	21.35	21.22
		8	4	24.09	24.01	23.96	21.52	21.42	21.42	23.69	23.54	23.33	21.40	21.40	21.34
	64QAM	8	7	24.09	24.02	23.96	21.51	21.43	21.41	23.65	23.53	23.30	21.40	21.41	21.32
		15	0	24.00	23.95	23.97	21.42	21.36	21.29	23.60	23.38	23.23	21.40	21.33	21.23
		1	0	24.16	24.18	24.14	21.66	21.62	21.68	23.84	23.73	23.57	21.34	21.39	21.19
		1	7	24.20	24.20	24.15	21.65	21.62	21.67	23.92	23.80	23.59	21.43	21.46	21.30
		1	14	24.16	24.13	24.15	21.65	21.65	21.58	23.90	23.78	23.53	21.37	21.42	21.18
		8	0	22.98	22.98	22.96	20.44	20.39	20.33	22.58	22.37	22.28	20.38	20.41	20.24
	256QAM	8	4	23.00	22.99	22.99	20.48	20.40	20.37	22.64	22.48	22.30	20.46	20.41	20.30
		8	7	23.00	22.99	22.99	20.46	20.40	20.36	22.62	22.50	22.29	20.42	20.48	20.26
		15	0	22.98	22.97	22.95	20.43	20.37	20.35	22.59	22.41	22.25	20.43	20.38	20.24
		1	0	20.98	21.05	20.93	18.51	18.37	18.40	20.59	20.54	20.31	18.25	18.27	18.27
		1	7	21.14	21.03	21.03	18.50	18.47	18.42	20.76	20.68	20.47	18.34	18.45	18.32
		1	14	21.04	21.03	20.95	18.46	18.38	18.34	20.70	20.57	20.37	18.27	18.39	18.22

OUTPUT POWER FOR LTE BAND 25 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				26065	26365	26665	26065	26365	26665	26065	26365	26665	26065	26365	26665
5.0	QPSK	1	0	25.70	25.63	25.66	23.40	23.29	23.24	25.50	25.43	25.32	23.37	23.40	23.30
		1	12	25.67	25.59	25.53	23.29	23.24	23.14	25.47	25.39	25.24	23.37	23.40	23.18
		1	24	24.96	24.83	24.81	22.33	22.18	22.13	24.60	24.44	24.39	22.40	22.35	22.30
		12	0	24.97	24.92	24.82	22.32	22.26	22.12	24.57	24.43	24.40	22.43	22.36	22.31
		12	6	24.94	24.90	24.87	22.30	22.26	22.20	24.55	24.49	24.37	22.41	22.40	22.31
		12	11	24.97	24.91	24.83	22.33	22.25	22.13	24.58	24.42	24.40	22.41	22.36	22.33
	16QAM	25	0	25.36	25.28	25.19	22.70	22.64	22.54	24.89	24.83	24.73	22.43	22.53	22.37
		1	0	25.39	25.33	25.29	22.69	22.64	22.67	24.97	24.96	24.82	22.35	22.49	22.34
		1	12	25.37	25.29	25.25	22.69	22.66	22.59	24.95	24.85	24.67	22.43	22.46	22.28
		1	24	24.01	23.88	23.92	21.38	21.21	21.20	23.61	23.33	23.49	21.34	21.39	21.42
		12	0	24.02	23.96	23.90	21.37	21.29	21.20	23.62	23.33	23.48	21.40	21.39	21.38
		12	6	23.97	23.92	23.98	21.35	21.27	21.25	23.59	23.42	23.48	21.39	21.44	21.31
	64QAM	12	11	23.99	23.94	23.87	21.37	21.26	21.16	23.62	23.39	23.44	21.35	21.39	21.33
		25	0	24.16	24.16	24.04	21.54	21.56	21.39	23.87	23.78	23.68	21.36	21.44	21.40
		1	0	24.12	24.18	24.07	21.57	21.50	21.45	23.86	23.79	23.70	21.40	21.44	21.44
		1	12	24.14	24.18	24.09	21.56	21.57	21.41	23.87	23.82	23.67	21.33	21.49	21.34
		1	24	22.89	22.77	22.89	20.33	20.41	20.14	22.57	22.44	22.45	20.39	20.48	20.40
		12	0	22.90	22.85	22.88	20.35	20.48	20.15	22.59	22.43	22.45	20.40	20.41	20.36
	256QAM	12	6	22.89	22.83	22.92	20.33	20.47	20.19	22.58	22.50	22.42	20.45	20.41	20.24
		12	11	22.95	22.93	22.83	20.31	20.27	20.14	22.61	22.44	22.43	20.45	20.36	20.31
		25	0	21.04	20.97	20.99	18.35	18.37	18.25	20.58	20.69	20.62	18.33	18.37	18.29
		1	0	21.09	21.01	21.07	18.36	18.34	18.26	20.61	20.67	20.61	18.39	18.46	18.34
		1	12	21.09	21.02	21.05	18.38	18.39	18.30	20.67	20.67	20.58	18.36	18.45	18.30
		1	24	20.92	20.85	20.79	18.32	18.19	18.11	20.59	20.43	20.42	18.36	18.37	18.28
	256QAM	12	0	20.94	20.90	20.79	18.32	18.28	18.15	20.58	20.45	20.39	18.37	18.36	18.31
		12	6	20.92	20.87	20.86	18.30	18.24	18.17	20.56	20.50	20.40	18.40	18.40	18.27
		12	11	20.90	20.90	20.81	18.29	18.26	18.13	20.54	20.41	20.41	18.41	18.35	18.29
		25	0	22.47	22.47	22.38	19.92	19.89	19.76	21.87	21.74	21.74	19.80	19.74	19.68

OUTPUT POWER FOR LTE BAND 25 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				26090	26365	26640	26090	26365	26640	26090	26365	26640	26090	26365	26640
10.0	QPSK	1	0	25.68	25.66	25.61	23.40	23.35	23.30	25.47	25.40	25.33	23.37	23.40	23.27
		1	24	25.70	25.69	25.62	23.40	23.37	23.32	25.50	25.43	25.35	23.36	23.38	23.27
		1	49	25.65	25.62	25.62	23.36	23.31	23.30	25.43	25.37	25.31	23.34	23.38	23.23
		25	0	24.99	24.98	24.95	22.50	22.37	22.33	24.60	24.53	24.46	22.47	22.45	22.34
		25	12	25.10	25.06	25.03	22.50	22.46	22.34	24.69	24.54	24.45	22.51	22.46	22.34
		25	24	25.06	25.04	25.00	22.48	22.42	22.38	24.66	24.60	24.51	22.48	22.51	22.40
	16QAM	50	0	25.07	25.06	25.02	22.49	22.44	22.31	24.66	24.52	24.44	22.49	22.44	22.31
		1	0	25.38	25.31	25.33	22.76	22.73	22.76	24.92	24.95	24.86	22.43	22.35	22.27
		1	24	25.30	25.30	25.19	22.68	22.66	22.62	24.86	24.88	24.77	22.46	22.40	22.34
		1	49	25.34	25.27	25.32	22.76	22.69	22.69	24.86	24.95	24.87	22.37	22.24	22.24
		25	0	24.03	24.05	23.96	21.56	21.39	21.39	23.62	23.49	23.49	21.50	21.41	21.35
		25	12	24.08	24.13	24.05	21.55	21.47	21.37	23.71	23.50	23.49	21.51	21.46	21.32
	64QAM	25	24	24.07	24.10	24.01	21.54	21.43	21.43	23.67	23.56	23.54	21.45	21.47	21.41
		50	0	24.07	24.05	24.02	21.50	21.47	21.34	23.66	23.51	23.45	21.49	21.43	21.35
		1	0	24.25	24.23	24.14	21.63	21.63	21.66	23.86	23.86	23.77	21.47	21.43	21.32
		1	24	24.20	24.18	24.15	21.62	21.63	21.69	23.89	23.90	23.79	21.34	21.47	21.29
		1	49	24.24	24.17	24.14	21.64	21.62	21.61	23.82	23.78	23.76	21.37	21.43	21.22
		25	0	22.98	23.02	22.97	20.49	20.41	20.36	22.58	22.56	22.47	20.46	20.47	20.37
	256QAM	25	12	23.07	23.08	23.04	20.50	20.46	20.36	22.68	22.58	22.49	20.52	20.45	20.35
		25	24	23.06	23.05	23.01	20.46	20.45	20.42	22.66	22.63	22.53	20.48	20.53	20.39
		50	0	23.06	23.07	23.01	20.47	20.46	20.35	22.67	22.55	22.48	20.49	20.46	20.31
		1	0	21.07	21.06	21.05	18.50	18.42	18.40	20.66	20.60	20.52	18.25	18.34	18.20
		1	24	21.16	21.13	21.12	18.61	18.53	18.49	20.79	20.66	20.62	18.35	18.50	18.21
		1	49	21.08	21.07	21.02	18.51	18.47	18.44	20.69	20.57	20.56	18.30	18.33	18.15
	256QAM	25	0	20.98	20.97	20.92	18.47	18.37	18.36	20.59	20.55	20.45	18.47	18.43	18.34
		25	12	21.05	21.06	21.00	18.50	18.45	18.37	20.66	20.54	20.47	18.48	18.42	18.34
		25	24	21.00	21.03	20.97	18.44	18.43	18.39	20.63	20.57	20.52	18.45	18.47	18.35
		50	0	21.01	21.01	20.97	18.45	18.43	18.32	20.64	20.53	20.44	18.47	18.40	18.31

5G NR n25

Test Engineer ID:		Test Date:	Click or tap to enter a date.
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OUTPUT POWER FOR 5G NR n25 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				370500	376500	382500	370500	376500	382500	370500	376500	382500	370500	376500	382500
5.0	BPSK	1	0	25.34	25.43	25.38	23.22	23.12	23.13	25.33	25.08	25.20	23.20	23.08	23.01
		1	1	25.68	25.70	25.60	23.40	23.31	23.24	25.45	25.40	25.41	23.33	23.37	23.21
		1	23	25.67	25.65	25.58	23.35	23.29	23.22	25.43	25.35	25.40	23.34	23.26	23.21
		1	24	25.42	25.44	25.39	23.07	23.09	23.02	25.25	25.15	25.19	23.14	23.09	23.00
		12	6	25.55	25.61	25.57	23.32	23.25	23.23	25.42	25.36	25.42	23.30	23.29	23.24
	QPSK	25	0	25.21	25.27	25.37	23.05	23.00	22.99	25.15	25.07	25.23	23.06	23.05	22.98
		1	0	24.92	24.99	24.96	22.73	22.64	22.63	24.79	24.75	24.73	22.70	22.61	22.54
		1	1	25.69	25.70	25.64	23.37	23.34	23.28	25.47	25.44	25.50	23.39	23.40	23.24
		1	23	25.68	25.70	25.61	23.32	23.29	23.27	25.49	25.41	25.45	23.39	23.34	23.28
		1	24	24.96	24.96	24.66	22.68	22.67	22.57	24.77	24.75	24.76	22.65	22.68	22.52
	16QAM	12	6	25.51	25.58	25.60	23.31	23.26	23.24	25.44	25.37	25.30	23.25	23.32	23.23
		25	0	24.84	24.88	24.87	22.65	22.59	22.59	24.76	24.70	24.55	22.60	22.59	22.50
		1	0	23.91	24.22	24.19	21.85	21.89	21.73	24.03	23.97	23.82	21.83	21.76	21.73
		1	1	24.93	25.23	25.15	22.95	22.85	22.80	25.07	25.00	24.81	22.83	22.87	22.83
		1	23	24.91	25.16	25.06	22.88	22.82	22.82	24.96	24.95	24.87	22.86	22.96	22.76
	64QAM	1	24	23.85	24.13	24.16	21.83	21.82	21.78	23.97	23.95	23.93	21.97	21.72	21.67
		12	6	24.87	24.83	24.97	22.68	22.62	22.62	24.72	24.66	24.62	22.66	22.66	22.56
		25	0	23.81	23.81	23.84	21.49	21.50	21.49	23.67	23.70	23.67	21.50	21.52	21.41
		1	0	23.71	23.61	23.60	21.25	21.30	21.16	23.46	23.43	23.28	21.29	21.30	21.18
		1	1	23.70	23.64	23.57	21.27	21.31	21.20	23.41	23.49	23.35	21.28	21.36	21.20
	256QAM	1	23	23.59	23.52	23.43	21.26	21.24	21.16	23.46	23.39	23.25	21.24	21.20	21.26
		1	24	23.62	23.71	23.63	21.23	21.20	21.11	23.42	23.34	23.26	21.35	21.28	21.13
		12	6	23.40	23.36	23.31	21.06	20.93	20.94	23.30	23.23	23.19	21.00	21.07	20.97
		25	0	23.26	23.26	23.30	21.07	21.13	21.12	23.16	23.16	23.13	21.07	21.10	21.01
		1	0	21.46	21.53	21.35	19.06	19.05	19.09	21.25	21.21	21.20	19.07	19.10	19.03
		1	1	21.43	21.36	21.30	19.06	19.11	19.13	21.04	21.16	21.14	19.06	19.03	19.17
		1	23	21.42	21.27	21.39	19.04	19.12	19.13	21.16	21.25	21.07	19.01	19.07	19.23
		1	24	21.22	21.32	21.31	19.02	19.01	19.15	21.03	21.20	21.07	19.03	19.04	19.08
		12	6	21.26	21.28	21.24	18.97	18.92	19.14	21.03	21.15	21.15	19.03	19.03	19.05
		25	0	21.29	21.33	21.28	19.05	19.04	19.10	21.08	21.18	21.18	19.02	19.07	19.09

OUTPUT POWER FOR 5G NR n25 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				372000	376500	381000	372000	376500	381000	372000	376500	381000	372000	376500	381000
20.0	BPSK	1	0	25.46	25.36	25.28	23.08	22.98	22.98	25.18	25.17	25.20	23.13	23.10	22.95
		1	1	25.66	25.57	25.46	23.35	23.20	23.14	25.43	25.39	25.42	23.39	23.21	23.29
		1	104	25.49	25.56	25.52	23.17	23.23	23.15	25.40	25.33	25.42	23.23	23.32	23.16
		1	105	25.30	25.31	25.37	23.01	23.02	23.02	25.25	25.12	25.18	23.14	23.08	23.02
		50	25	25.44	25.47	25.53	23.28	23.21	23.25	25.37	25.34	25.38	23.32	23.29	23.18
		100	0	25.25	25.29	25.31	23.09	23.05	20.89	25.19	25.16	23.33	23.14	23.10	23.06
	QPSK	1	0	24.92	24.95	24.78	22.73	22.61	19.64	24.78	24.74	22.02	22.63	22.64	22.57
		1	1	25.63	25.70	25.53	23.40	23.28	20.83	25.47	25.45	23.28	23.30	23.38	23.30
		1	104	25.55	25.57	25.62	23.35	23.27	19.76	25.50	25.35	22.04	23.40	23.32	23.25
		1	105	24.84	24.88	24.70	22.61	22.61	18.47	24.82	24.73	20.93	22.66	22.61	22.40
		50	25	25.46	25.51	25.47	23.34	23.20	23.24	25.37	25.32	25.42	23.33	23.26	23.25
		100	0	24.80	24.78	24.77	22.62	22.53	22.60	24.69	24.70	24.72	22.65	22.59	22.57
	16QAM	1	0	24.16	24.12	24.00	21.87	21.84	21.67	24.04	23.97	23.91	22.04	21.85	21.81
		1	1	25.10	25.24	24.99	22.94	22.80	22.67	24.96	24.95	24.97	22.87	22.87	22.69
		1	104	25.05	25.04	24.83	22.94	22.72	22.27	25.03	24.81	24.87	22.97	22.85	22.58
		1	105	24.09	24.02	23.98	21.82	21.76	21.29	23.94	23.83	23.88	21.76	21.71	21.56
		50	25	24.87	24.78	24.76	22.67	22.49	22.57	24.72	24.67	24.78	22.66	22.60	22.58
		100	0	23.75	23.73	23.78	21.62	21.56	21.53	23.69	23.67	23.69	21.65	21.57	21.56
	64QAM	1	0	23.61	23.67	23.42	21.17	21.19	21.22	23.33	23.29	23.37	21.33	21.41	21.27
		1	1	23.65	23.40	23.44	21.13	21.17	21.14	23.46	23.34	23.41	21.59	21.19	21.28
		1	104	23.64	23.31	23.29	20.99	21.15	21.19	23.42	23.29	23.35	21.22	21.19	21.13
		1	105	23.45	23.27	23.44	21.01	21.20	21.08	23.34	23.15	23.34	21.28	20.96	21.15
		50	25	23.27	23.21	23.22	21.03	20.98	21.01	23.14	23.11	23.21	21.12	20.98	20.98
		100	0	23.25	23.21	23.23	21.11	20.94	21.02	23.19	23.10	23.17	21.17	21.07	21.01
	256QAM	1	0	21.26	21.34	21.31	19.15	18.90	18.92	21.23	21.12	21.29	19.19	19.32	18.97
		1	1	21.43	21.35	21.31	18.98	19.04	19.12	21.30	21.16	21.26	19.22	19.14	18.97
		1	104	21.27	21.26	21.20	19.05	18.92	19.07	21.20	20.96	21.17	19.09	19.11	18.94
		1	105	21.40	21.23	21.39	18.93	18.96	18.98	21.23	21.12	21.07	19.15	19.04	18.99
		50	25	21.19	21.28	21.23	19.08	19.03	19.03	21.14	21.12	21.20	19.13	19.09	18.99
		100	0	21.24	21.24	21.25	19.08	18.98	19.00	21.10	21.13	21.16	19.12	19.04	18.95

OUTPUT POWER FOR 5G NR n25 (25.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				372500	376500	380500	372500	376500	380500	372500	376500	380500	372500	376500	380500
25.0	BPSK	1	0	25.42	25.38	25.27	23.26	23.00	22.95	25.16	25.20	25.17	23.14	23.09	23.10
		1	1	25.66	25.57	25.44	23.37	23.29	23.15	25.41	25.37	25.37	23.37	23.34	23.33
		1	132	25.55	25.47	25.57	23.30	23.14	23.21	25.35	25.32	25.37	23.40	23.28	23.24
		1	131	25.37	25.24	25.31	23.12	23.03	23.01	25.12	25.14	25.19	23.17	23.09	23.08
		64	32	25.44	25.39	25.43	23.30	23.18	23.25	25.30	25.30	25.38	23.34	23.30	23.29
		128	0	25.24	25.24	25.19	23.09	23.05	23.10	25.21	25.09	25.19	23.11	23.10	23.07
	QPSK	1	0	24.98	24.97	24.85	22.73	22.63	21.86	24.82	24.72	24.72	21.97	22.66	21.64
		1	1	25.70	25.53	25.48	23.40	23.28	22.95	25.50	25.40	25.38	22.99	23.31	22.75
		1	132	25.58	25.52	25.58	23.26	23.19	22.30	25.45	25.37	25.40	23.23	23.36	21.85
		1	131	24.90	24.80	24.76	22.65	22.47	21.23	24.75	24.70	24.68	22.08	22.63	20.81
		64	32	25.41	25.45	25.42	23.28	23.21	23.28	25.31	25.31	25.43	23.33	23.29	23.29
		128	0	24.72	24.71	24.73	22.61	22.58	22.58	24.70	24.63	24.80	22.64	22.62	22.60
	16QAM	1	0	24.05	24.17	24.10	21.88	21.73	21.55	23.91	23.87	23.83	21.58	21.90	21.82
		1	1	25.09	25.10	25.10	22.82	22.86	22.78	24.99	24.96	24.77	22.64	22.91	22.87
		1	132	25.09	24.97	24.64	22.72	22.73	22.73	24.94	24.79	24.71	22.42	22.73	22.71
		1	131	24.07	24.20	23.69	21.68	21.70	21.71	23.85	23.86	23.65	21.51	21.84	21.80
		64	32	24.73	24.68	24.73	22.56	22.55	22.50	24.61	24.65	24.56	22.64	22.59	22.59
		128	0	23.73	23.71	23.76	21.55	21.48	21.54	23.71	23.62	23.53	21.65	21.58	21.60
	64QAM	1	0	23.51	23.77	23.57	21.28	21.19	21.11	23.39	23.36	23.09	21.31	21.32	21.42
		1	1	23.54	23.64	23.55	21.29	21.17	21.25	23.33	23.39	23.18	21.22	21.29	21.19
		1	132	23.48	23.55	23.29	21.04	21.04	21.25	23.28	23.19	23.31	21.38	21.40	21.26
		1	131	23.44	23.51	23.38	21.04	21.25	21.20	23.16	23.35	23.28	21.11	21.31	21.30
		64	32	23.28	23.24	23.20	21.06	20.96	21.02	23.07	23.14	23.09	21.14	21.10	21.05
		128	0	23.22	23.17	23.25	21.08	21.01	21.01	23.24	23.12	23.10	21.08	21.12	21.12
	256QAM	1	0	21.36	21.40	21.23	19.22	19.04	19.12	21.24	21.19	21.05	19.42	19.08	19.21
		1	1	21.45	21.43	21.14	19.08	19.06	19.09	21.27	21.30	21.09	19.32	19.16	19.02
			1	132	21.33	21.27	21.37	18.98	18.99	18.86	21.01	20.98	21.15	19.20	18.97

8.8. LTE BAND 26 AND 5G NR n26 (FCC PART 90S)

LTE BAND 26

Test Engineer ID:	25780	Test Date:	2/14/2022
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OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				26697	26740	26783	26697	26740	26783
1.4	QPSK	1	0	25.56	25.60	25.59	24.55	24.65	24.66
		1	2	25.69	25.70	25.70	24.68	24.69	24.70
		1	5	25.65	25.70	25.68	24.66	24.67	24.67
		3	0	25.68	25.68	25.67	24.66	24.68	24.68
		3	1	25.69	25.68	25.69	24.68	24.67	24.68
		3	2	25.68	25.67	25.67	24.67	24.66	24.69
	16QAM	6	0	24.98	24.98	24.97	23.65	23.66	23.67
		1	0	25.14	25.17	25.21	23.92	23.96	23.96
		1	2	25.22	25.31	25.32	24.00	23.97	24.01
		1	5	25.19	25.30	25.25	24.01	24.00	23.96
		3	0	25.09	25.18	25.14	23.83	23.86	23.84
		3	1	25.09	25.15	25.14	23.83	23.85	23.85
	64QAM	3	2	25.10	25.15	25.14	23.86	23.83	23.83
		6	0	24.07	24.09	24.06	22.77	22.76	22.78
		1	0	24.09	24.13	24.18	22.79	22.83	22.98
		1	2	24.21	24.22	24.23	22.95	22.80	23.01
		1	5	24.10	24.24	24.28	22.91	22.80	22.98
		3	0	24.12	24.10	24.06	22.84	22.80	22.79
	256QAM	3	1	24.08	24.11	24.07	22.81	22.79	22.78
		3	2	24.13	24.12	24.08	22.81	22.77	22.79
		6	0	23.02	23.07	23.05	21.70	21.57	21.72
		1	0	21.03	21.13	20.95	19.67	19.83	19.71
		1	2	21.16	21.18	21.05	19.83	19.80	19.75
		1	5	21.08	21.15	21.06	19.73	19.80	19.79
		3	0	21.01	21.03	20.99	19.70	19.70	19.70
		3	1	21.02	21.05	21.00	19.71	19.71	19.71
		3	2	21.02	21.03	21.01	19.69	19.70	19.70
		6	0	21.01	21.15	21.09	19.77	19.69	19.55

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				26705	26740	26775	26705	26740	26775
3.0	QPSK	1	0	25.57	25.56	25.56	24.59	24.59	24.56
		1	7	25.70	25.65	25.68	24.69	24.70	24.68
		1	14	25.57	25.57	25.57	24.59	24.58	24.57
		8	0	24.96	24.87	24.88	23.67	23.65	23.66
		8	4	25.00	24.96	25.00	23.72	23.72	23.70
		8	7	24.99	24.98	24.98	23.72	23.70	23.72
	16QAM	15	0	24.95	24.94	24.94	23.67	23.66	23.66
		1	0	25.20	25.18	25.20	23.92	23.91	23.97
		1	7	25.32	25.29	25.31	24.05	24.02	24.10
		1	14	25.24	25.19	25.23	23.91	23.95	23.97
		8	0	24.03	23.95	23.94	22.78	22.73	22.77
		8	4	24.04	24.06	24.03	22.79	22.76	22.79
	64QAM	8	7	24.05	24.05	24.03	22.80	22.76	22.78
		15	0	23.99	23.97	23.97	22.74	22.71	22.72
		1	0	24.16	24.21	24.12	22.95	22.93	22.94
		1	7	24.25	24.26	24.18	22.98	23.00	23.03
		1	14	24.19	24.22	24.13	22.97	22.90	22.98
		8	0	22.99	22.93	22.96	21.71	21.69	21.69
	256QAM	8	4	23.04	23.05	23.05	21.72	21.73	21.70
		8	7	23.05	23.05	23.07	21.73	21.72	21.71
		15	0	22.99	22.97	22.99	21.69	21.68	21.68
		1	0	21.04	20.99	21.01	19.62	19.63	19.64
		1	7	21.12	21.17	21.06	19.79	19.80	19.85
		1	14	20.93	21.06	20.95	19.66	19.77	19.80
		8	0	20.98	20.89	20.88	19.68	19.69	19.71
		8	4	20.99	20.98	20.99	19.72	19.70	19.71
		8	7	20.99	20.97	20.98	19.72	19.71	19.72
		15	0	20.97	20.95	20.95	19.67	19.68	19.68

OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	ANT 1			ANT 2		
				26715	26740	26765	26715	26740	26765
				816.5	819.0	821.5	816.5	819.0	821.5
5.0	QPSK	1	0	25.60	25.58	25.56	24.60	24.56	24.57
		1	12	25.70	25.66	25.67	24.70	24.69	24.66
		1	24	25.61	25.59	25.55	24.61	24.56	24.56
		12	0	24.86	24.85	24.85	23.58	23.54	23.54
		12	6	24.93	24.95	24.94	23.64	23.64	23.63
		12	11	24.91	24.89	24.91	23.65	23.61	23.63
		25	0	24.93	24.91	24.91	23.64	23.62	23.60
	16QAM	1	0	25.26	25.26	25.22	23.98	23.93	23.95
		1	12	25.28	25.33	25.33	24.03	24.03	24.08
		1	24	25.27	25.24	25.23	24.01	23.98	23.94
		12	0	23.93	23.92	23.90	22.65	22.63	22.53
		12	6	24.02	23.98	23.99	22.72	22.72	22.61
		12	11	23.98	23.96	23.95	22.68	22.71	22.60
		25	0	23.98	23.96	23.94	22.66	22.60	22.64
	64QAM	1	0	24.20	24.21	24.14	22.84	22.85	22.79
		1	12	24.23	24.24	24.21	22.83	22.90	22.87
		1	24	24.19	24.22	24.19	22.85	22.88	22.80
		12	0	23.01	22.93	22.82	21.54	21.62	21.53
		12	6	23.08	23.02	22.92	21.64	21.70	21.63
		12	11	23.04	22.97	22.90	21.60	21.66	21.60
		25	0	22.92	22.94	22.90	21.65	21.63	21.63
	256QAM	1	0	21.03	21.00	21.06	19.64	19.65	19.70
		1	12	21.11	21.09	21.08	19.77	19.75	19.78
		1	24	21.07	21.07	21.12	19.68	19.70	19.72
		12	0	20.89	20.84	20.84	19.56	19.54	19.53
12		6	20.96	20.95	20.93	19.68	19.63	19.64	
12		11	20.92	20.91	20.91	19.64	19.62	19.60	
25		0	20.93	20.92	20.90	19.62	19.61	19.62	

OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)						
				ANT 1			ANT 2			
				N/A	26740	N/A	N/A	26740	N/A	
10.0	QPSK	1	0		25.70				24.69	
		1	24		25.70				24.70	
		1	49		25.66				24.65	
		25	0		24.98				23.69	
		25	12		25.03				23.76	
		25	24		25.03				23.76	
		50	0		25.04				23.77	
	16QAM	1	0		25.35				24.09	
		1	24		25.24				23.97	
		1	49		25.25				23.98	
		25	0		24.04				22.72	
		25	12		24.10				22.80	
		25	24		24.09				22.78	
		50	0		24.06				22.78	
	64QAM	1	0		24.27				23.03	
		1	24		24.23				23.00	
		1	49		24.24				22.92	
		25	0		22.99				21.69	
		25	12		23.03				21.74	
		25	24		23.03				21.73	
		50	0		23.04				21.76	
	256QAM	1	0		21.06				19.78	
		1	24		21.16				19.83	
		1	49		21.02				19.80	
		25	0		20.99				19.68	
25		12		21.02				19.75		
25		24		21.01				19.75		
50		0		21.02				19.75		

5G NR n26

Test Engineer ID:	25602	Test Date:	2/17/2022
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OUTPUT POWER FOR 5G NR n26 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				163300	163800	164300	163300	163800	164300
5.0	BPSK	1	0	25.47	25.42	25.41	24.54	24.38	24.40
		1	1	25.68	25.63	25.59	24.70	24.67	24.59
		1	23	25.60	25.55	25.63	24.60	24.56	24.52
		1	24	25.39	25.39	25.46	24.39	24.35	24.34
		12	6	25.63	25.64	25.57	24.64	24.60	24.52
		25	0	25.35	25.36	25.28	24.37	24.29	24.21
	QPSK	1	0	24.98	24.96	24.97	24.01	23.92	23.96
		1	1	25.70	25.67	25.62	24.67	24.66	24.64
		1	23	25.63	25.61	25.56	24.66	24.58	24.55
		1	24	24.93	24.88	24.99	23.98	23.84	23.97
		12	6	25.67	25.61	25.59	24.66	24.58	24.56
		25	0	24.93	24.91	24.87	23.95	23.88	23.85
	16QAM	1	0	24.26	24.16	24.14	23.12	23.23	23.13
		1	1	25.24	25.16	25.15	24.25	24.02	24.17
		1	23	25.08	25.10	25.10	24.17	23.95	24.06
		1	24	24.17	24.10	24.17	23.16	23.09	23.29
		12	6	24.96	24.92	24.95	23.91	23.94	23.84
		25	0	23.82	23.83	23.82	22.92	22.87	22.82
	64QAM	1	0	23.62	23.58	23.49	22.68	22.57	22.50
		1	1	23.57	23.61	23.65	22.79	22.58	22.64
		1	23	23.54	23.57	23.60	22.53	22.46	22.59
		1	24	23.53	23.46	23.54	22.51	22.57	22.49
		12	6	23.36	23.33	23.27	22.41	22.26	22.35
		25	0	23.43	23.38	23.38	22.41	22.34	22.35
	256QAM	1	0	21.45	21.40	21.41	20.44	20.41	20.36
		1	1	21.51	21.41	21.34	20.36	20.29	20.41
		1	23	21.45	21.30	21.49	20.38	20.30	20.34
		1	24	21.33	21.32	21.41	20.37	20.29	20.42
		12	6	21.44	21.38	21.28	20.31	20.37	20.29
		25	0	21.35	21.32	21.35	20.41	20.39	20.27

OUTPUT POWER FOR 5G NR n26 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				N/A	163800	N/A	N/A	163800	N/A
10.0	BPSK	1	0		25.51			24.49	
		1	1		25.69			24.66	
		1	50		25.67			24.63	
		1	51		25.45			24.42	
		25	12		25.57			24.56	
		50	0		25.44			24.44	
	QPSK	1	0		24.98			24.03	
		1	1		25.70			24.70	
		1	50		25.63			24.57	
		1	51		24.98			23.99	
		25	12		25.64			24.62	
		50	0		24.91			23.92	
	16QAM	1	0		24.22			23.28	
		1	1		25.23			24.31	
		1	50		25.20			24.13	
		1	51		24.19			23.28	
		25	12		24.87			23.72	
		50	0		23.98			22.96	
	64QAM	1	0		23.66			22.52	
		1	1		23.56			22.59	
		1	50		23.50			22.41	
		1	51		23.62			22.47	
		25	12		23.42			22.30	
		50	0		23.41			22.35	
	256QAM	1	0		21.41			20.46	
		1	1		21.40			20.43	
		1	50		21.41			20.46	
		1	51		21.45			20.22	
		25	12		21.39			20.36	
		50	0		21.40			20.40	

8.9. LTE BAND 30 AND 5G NR n30

LTE BAND 30

Test Engineer ID:	19232	Test Date:	3/1/2022
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OUTPUT POWER FOR LTE BAND 30 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				27685	27710	27735	27685	27710	27735	27685	27710	27735	27685	27710	27735
5.0	QPSK	1	0	25.49	25.46	25.48	23.58	23.59	23.58	23.49	23.48	23.44	23.16	23.09	23.06
		1	12	25.60	25.58	25.58	23.70	23.68	23.66	23.60	23.57	23.59	23.20	23.19	23.20
		1	24	25.55	25.52	25.51	23.55	23.60	23.57	23.49	23.45	23.51	23.12	23.10	23.11
		12	0	24.85	24.83	24.74	22.59	22.61	22.60	22.45	22.42	22.41	22.15	22.10	22.03
		12	6	24.88	24.88	24.78	22.65	22.65	22.66	22.56	22.55	22.43	22.10	22.17	22.14
	16QAM	12	11	24.85	24.81	24.82	22.52	22.61	22.60	22.52	22.48	22.46	22.06	22.13	22.12
		25	0	24.83	24.80	24.76	22.61	22.60	22.61	22.53	22.49	22.40	22.07	22.10	22.11
		1	0	25.19	25.21	25.20	23.00	22.98	22.97	22.86	22.88	22.85	22.53	22.46	22.46
		1	12	25.33	25.35	25.33	23.11	23.05	23.12	23.00	22.97	22.91	22.63	22.54	22.56
		1	24	25.24	25.23	25.21	22.95	22.97	22.99	22.81	22.85	22.87	22.47	22.49	22.50
	64QAM	12	0	23.98	23.95	23.75	21.70	21.61	21.60	21.46	21.43	21.53	21.16	21.10	21.14
		12	6	24.02	24.00	23.80	21.75	21.66	21.64	21.59	21.52	21.55	21.11	21.16	21.27
		12	11	23.98	23.94	23.85	21.65	21.60	21.61	21.54	21.49	21.60	21.07	21.10	21.22
		25	0	23.85	23.83	23.79	21.66	21.64	21.67	21.54	21.53	21.44	21.12	21.10	21.16
		1	0	24.01	24.07	24.06	21.86	21.95	21.79	21.73	21.71	21.70	21.38	21.32	21.36
	256QAM	1	12	24.10	24.17	24.12	21.91	21.96	21.84	21.80	21.82	21.72	21.42	21.39	21.44
		1	24	24.04	24.09	24.05	21.81	21.95	21.82	21.71	21.73	21.76	21.34	21.36	21.39
		12	0	22.78	22.83	22.72	20.58	20.69	20.58	20.36	20.49	20.41	20.18	20.13	20.16
		12	6	22.81	22.89	22.79	20.63	20.74	20.63	20.49	20.62	20.46	20.13	20.17	20.29
		12	11	22.77	22.85	22.83	20.51	20.71	20.61	20.43	20.55	20.51	20.09	20.15	20.23
	256QAM	25	0	22.83	22.82	22.73	20.61	20.61	20.62	20.51	20.50	20.41	20.07	20.11	20.14
		1	0	20.79	20.89	20.89	18.79	18.68	18.71	18.48	18.53	18.46	18.19	18.18	18.19
		1	12	20.99	21.04	21.05	18.83	18.74	18.76	18.61	18.70	18.60	18.26	18.24	18.36
		1	24	20.88	20.95	20.92	18.60	18.66	18.64	18.49	18.56	18.53	18.09	18.13	18.27
		12	0	20.82	20.81	20.71	18.63	18.61	18.60	18.45	18.41	18.39	18.16	18.12	18.03

OUTPUT POWER FOR LTE BAND 30 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				N/A	27710	N/A	N/A	27710	N/A	N/A	27710	N/A	N/A	27710	N/A
10.0	QPSK	1	0	25.54			23.70			23.60			23.20		
		1	24	25.60			23.68			23.59			23.17		
		1	49	25.58			23.65			23.57			23.13		
		25	0	24.87			22.66			22.53			22.17		
		25	12	24.90			22.68			22.61			22.17		
	16QAM	25	24	24.89			22.66			22.56			22.15		
		50	0	24.90			22.67			22.51			22.17		
		1	0	25.19			23.04			22.98			22.55		
		1	24	25.17			22.98			22.90			22.47		
		1	49	25.19			22.98			22.90			22.51		
	64QAM	25	0	23.89			21.72			21.57			21.21		
		25	12	23.90			21.75			21.65			21.22		
		25	24	23.87			21.71			21.59			21.19		
		50	0	23.88			21.69			21.51			21.17		
		1	0	24.10			21.92			21.93			21.40		
	256QAM	1	24	24.14			21.88			21.84			21.37		
		1	49	24.16			21.82			21.90			21.38		
		25	0	22.86			20.67			20.54			20.15		
		25	12	22.88			20.68			20.63			20.18		
		25	24	22.86			20.66			20.58			20.15		
	256QAM	50	0	22.85			20.67			20.53			20.15		
		1	0	20.87			18.78			18.64			18.27		
		1	24	20.99			18.84			18.76			18.34		
		1	49	20.86			18.69			18.64			18.16		
		25	0	20.83			18.67			18.55			18.15		

5G NR n30

Test Engineer ID:	25602	Test Date:	2/17/2022
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OUTPUT POWER FOR 5G NR n30 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				461500	462000	462500	461500	462000	462500	461500	462000	462500	461500	462000	462500
5.0	BPSK	1	0	20.31	20.42	20.38	18.88	18.73	18.79	19.45	19.44	19.51	17.53	17.40	17.42
		1	1	20.58	20.60	20.61	18.97	18.92	19.00	20.00	19.93	19.91	17.63	17.58	17.64
		1	23	20.59	20.70	20.62	18.93	18.95	18.95	19.96	19.83	19.89	17.64	17.65	17.70
		1	24	20.42	20.43	20.27	18.70	18.72	18.63	19.41	19.32	19.40	17.42	17.48	17.36
		12	6	20.64	20.69	20.69	18.31	18.39	18.39	20.00	20.00	19.96	17.72	17.70	17.70
	QPSK	25	0	25.24	25.38	25.23	23.27	23.38	23.39	22.95	22.95	22.95	22.92	22.93	22.91
		1	0	19.88	19.87	19.89	18.14	18.22	18.24	18.97	18.97	18.94	16.88	16.90	16.92
		1	1	20.60	20.61	20.55	18.87	18.92	19.00	20.00	20.00	19.93	17.63	17.55	17.61
		1	23	20.57	20.70	20.60	18.90	18.90	18.88	20.00	19.94	19.95	17.59	17.70	17.66
		1	24	19.86	19.98	19.97	18.23	18.17	18.13	18.90	18.90	18.94	16.90	16.99	17.02
	16QAM	12	6	20.65	20.70	20.66	18.39	18.40	18.39	19.97	20.00	19.95	17.71	17.67	17.67
		25	0	24.81	24.94	24.81	22.92	22.84	22.92	22.57	22.56	22.58	22.46	22.46	22.45
		1	0	19.66	19.64	19.68	17.84	17.96	17.59	18.59	18.84	18.85	16.66	16.57	16.57
		1	1	20.60	20.58	20.67	18.83	18.91	18.57	19.52	19.93	19.82	17.70	17.54	17.59
		1	23	20.54	20.70	20.65	18.94	19.06	18.58	19.51	19.92	20.00	17.52	17.69	17.67
	64QAM	1	24	19.66	19.70	19.58	17.93	17.99	17.50	18.53	18.93	18.94	16.61	16.56	16.65
		12	6	20.48	20.65	20.70	18.40	18.38	18.17	19.99	20.00	19.97	17.70	17.01	17.08
		25	0	23.74	23.85	23.76	21.81	21.87	21.72	21.63	21.58	21.57	21.40	21.35	21.40
		1	0	20.52	20.53	20.59	18.86	18.86	18.87	19.96	19.89	19.87	17.53	17.50	17.57
		1	1	20.58	20.70	20.65	18.99	18.98	18.89	20.00	19.93	19.95	17.54	17.59	17.59
	256QAM	1	23	20.58	20.69	20.65	19.00	19.01	18.97	19.86	19.85	19.93	17.42	17.64	17.67
		1	24	20.61	20.58	20.60	18.87	19.03	18.83	19.87	19.85	19.91	17.50	17.60	17.70
		12	6	20.70	20.66	20.65	18.40	18.37	18.34	20.00	19.90	19.86	17.47	17.70	17.53
		25	0	23.39	23.38	23.41	21.45	21.44	21.42	20.98	21.01	20.98	20.90	21.01	20.98
		1	0	20.58	20.53	20.63	18.78	18.92	18.95	20.00	19.88	19.98	17.49	17.54	17.49

OUTPUT POWER FOR 5G NR n30 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				N/A	462000	N/A	N/A	462000	N/A	N/A	462000	N/A	N/A	462000	N/A
10.0	BPSK	1	0		20.37			18.16			19.52			17.46	
		1	1		20.61			18.35			20.00			17.67	
		1	50		20.70			18.40			20.00			17.70	
		1	51		20.52			18.20			19.42			17.54	
		25	12		20.67			18.38			19.97			17.69	
	QPSK	50	0		22.85			19.51			21.59			20.21	
		1	0		19.55			17.32			18.84			16.56	
		1	1		20.61			18.40			20.00			17.70	
		1	50		20.70			18.01			19.33			17.44	
		1	51		19.62			16.86			18.25			16.34	
	16QAM	25	12		20.70			18.33			19.98			17.70	
		50	0		23.20			21.20			22.50			20.70	
		1	0		19.62			17.37			18.99			16.59	
		1	1		20.61			18.29			19.97			17.70	
		1	50		20.70			18.40			20.00			17.64	
	64QAM	1	51		19.72			17.28			19.00			16.59	
		25	12		20.69			18.34			19.94			17.68	
		50	0		22.25			20.18			21.53			19.75	
		1	0		20.55			18.36			19.91			17.61	
		1	1		20.59			18.40			19.96			17.66	
	256QAM	1	50		20.66			18.37			20.00			17.70	
		1	51		20.70			18.38			19.96			17.70	
		25	12		20.69			18.37			19.88			17.64	
		50	0		21.69			19.64			20.96			19.24	
		1	0		20.69			18.34			19.84			17.56	

OUTPUT POWER FOR LTE BAND 41 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				39725	40620	41515	39725	40620	41515	39725	40620	41515	39725	40620	41515
15.0	QPSK	1	0	22.01	28.70	26.97	23.10	28.70	28.00	20.43	28.00	26.86	20.90	27.70	26.30
		1	37	27.07	28.60	26.89	27.95	28.62	27.94	26.06	27.94	27.00	26.27	27.64	26.06
		1	74	26.99	28.67	27.03	28.00	28.64	27.90	26.20	27.96	26.84	26.30	27.47	26.21
		36	0	21.75	27.38	25.74	22.71	27.39	26.84	20.51	26.60	25.61	21.17	26.71	25.18
		36	16	25.79	27.40	25.75	26.79	27.43	26.78	24.75	26.62	25.63	25.30	26.65	25.17
		36	35	22.70	27.31	25.66	23.67	27.31	26.74	21.74	26.56	25.57	22.27	26.63	25.31
		75	0	21.73	27.38	25.69	22.77	27.40	26.81	20.76	26.60	25.61	21.20	26.67	25.20
	16QAM	1	0	22.62	28.34	27.70	23.66	28.44	27.71	25.15	27.42	26.72	20.35	27.00	25.84
		1	37	27.70	28.26	27.64	27.60	28.24	27.72	25.86	27.34	26.66	25.48	27.01	25.70
		1	74	27.62	28.35	27.67	27.65	28.33	27.56	26.01	27.34	26.72	25.65	27.01	25.66
		36	0	22.73	28.38	26.69	23.74	28.38	27.76	24.74	26.71	25.80	20.23	25.79	24.19
		36	16	26.78	28.39	26.69	27.74	28.36	27.74	24.95	26.70	25.80	24.33	25.69	24.23
		36	35	23.67	28.31	26.61	24.68	28.31	27.69	25.00	26.64	25.72	21.30	25.69	24.33
		75	0	22.72	28.37	26.69	23.76	28.37	27.75	24.95	26.69	25.77	20.20	25.71	24.20
	64QAM	1	0	20.94	27.39	25.87	21.85	27.65	26.94	19.43	27.02	25.84	19.20	26.26	24.85
		1	37	25.94	27.60	25.77	26.97	27.53	26.89	25.06	26.92	25.79	24.83	26.11	24.60
		1	74	25.84	27.39	25.81	26.79	27.60	26.94	25.08	26.69	25.93	24.41	25.75	24.68
		36	0	20.73	26.39	24.73	21.74	26.40	25.81	19.52	25.60	24.62	19.16	24.76	23.21
		36	16	24.78	26.36	24.74	25.79	26.41	25.80	23.72	25.61	24.64	23.34	24.71	23.20
		36	35	21.69	26.31	24.65	22.69	26.32	25.74	20.76	25.54	24.55	20.28	24.69	23.34
		75	0	20.76	26.37	24.71	21.78	26.39	25.78	19.76	25.63	24.62	19.19	24.70	23.20
	256QAM	1	0	17.81	24.58	22.80	19.00	24.68	23.95	16.22	23.61	22.55	16.26	22.94	21.32
		1	37	22.77	24.42	22.82	24.07	24.66	23.98	21.65	23.54	22.59	21.59	23.04	21.46
		1	74	22.78	24.33	22.60	23.90	24.58	23.88	21.99	23.47	22.57	21.62	22.80	21.56
		36	0	18.74	24.33	22.68	19.93	24.58	23.91	17.39	23.37	22.46	17.36	22.96	21.22
		36	16	22.77	24.35	22.69	23.97	24.60	23.89	21.66	23.40	22.47	21.43	22.95	21.21
		36	35	19.67	24.28	22.61	20.88	24.49	23.81	18.71	23.37	22.42	18.49	22.91	21.31
		75	0	18.74	24.35	22.71	19.94	24.56	23.89	17.61	23.40	22.48	17.36	22.93	21.23

OUTPUT POWER FOR LTE BAND 41 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				39750	40620	41490	39750	40620	41490	39750	40620	41490	39750	40620	41490
20.0	QPSK	1	0	21.92	28.70	27.12	22.65	28.66	27.83	20.22	27.45	27.00	21.03	27.70	26.30
		1	49	27.28	28.70	27.31	28.00	28.70	27.74	26.20	28.00	27.00	26.28	27.47	26.23
		1	99	27.03	28.66	27.03	27.59	28.65	28.00	25.86	27.42	26.95	26.30	27.55	26.24
		50	0	21.72	27.29	25.78	22.39	27.33	26.56	20.36	26.14	25.72	21.33	26.66	25.31
		50	24	25.67	27.31	25.77	26.45	27.30	26.53	24.48	26.15	25.73	25.38	26.62	25.52
		50	49	22.67	27.25	25.71	23.33	27.20	26.43	21.53	26.07	25.61	22.40	26.59	25.45
		100	0	21.63	27.31	25.73	22.39	27.28	26.52	20.45	26.13	25.69	21.32	26.59	25.40
	16QAM	1	0	22.65	28.32	27.70	23.33	28.23	27.47	24.95	26.97	26.79	20.35	27.13	25.74
		1	49	27.70	28.21	27.67	27.29	28.14	27.43	25.74	26.81	26.74	25.73	26.89	25.73
		1	99	27.70	28.27	27.70	27.24	28.12	27.35	25.66	26.84	26.78	25.91	26.90	25.64
		50	0	22.71	28.29	26.75	23.41	28.28	27.50	24.52	26.21	25.80	20.36	25.68	24.36
		50	24	26.67	28.33	26.76	27.42	28.27	27.51	24.69	26.22	25.82	24.41	25.65	24.53
		50	49	23.66	28.25	26.68	24.34	28.17	27.42	24.74	26.14	25.73	21.39	25.62	24.50
		100	0	22.64	28.29	26.75	23.41	28.29	27.51	24.65	26.20	25.81	20.32	25.65	24.49
	64QAM	1	0	20.67	27.40	25.84	21.63	27.38	26.98	19.13	26.34	25.91	19.21	26.15	24.60
		1	49	25.92	27.42	25.93	26.49	27.61	26.65	24.63	26.24	25.82	24.53	26.00	24.71
		1	99	25.82	27.42	25.94	26.46	27.35	26.88	24.76	26.22	25.80	24.58	25.72	24.82
		50	0	20.70	26.28	24.73	21.34	26.27	25.54	19.34	25.17	24.72	19.32	24.73	23.39
		50	24	24.66	26.31	24.76	25.43	26.31	25.56	23.48	25.17	24.71	23.40	24.65	23.54
		50	49	21.63	26.22	24.68	22.31	26.22	25.41	20.51	25.10	24.62	20.40	24.60	23.52
		100	0	20.63	26.27	24.73	21.41	26.31	25.53	19.45	25.19	24.71	19.36	24.72	23.49
	256QAM	1	0	17.83	24.47	22.82	18.74	24.59	23.70	16.19	23.31	22.72	16.33	23.22	21.66
		1	49	22.87	24.38	22.76	23.58	24.63	23.71	21.65	23.26	22.77	21.75	22.98	21.67
		1	99	22.97	24.46	22.79	23.66	24.55	23.82	21.75	23.25	22.68	21.85	23.12	21.67
		50	0	18.72	24.24	22.73	19.53	24.42	23.65	17.30	23.08	22.62	17.50	22.92	21.42
		50	24	22.67	24.25	22.75	23.61	24.46	23.67	21.55	23.12	22.61	21.63	22.89	21.50
		50	49	19.63	24.19	22.64	20.49	24.38	23.57	18.56	23.05	22.57	18.65	22.83	21.48
		100	0	18.62	24.24	22.71	19.54	24.46	23.63	17.54	23.09	22.62	17.50	22.87	21.50

OUTPUT POWER FOR 5G NR n41 (100.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT2			ANT1			ANT4			ANT3		
				509200	528600	528000	509200	528600	528000	509200	528600	528000	509200	528600	528000
100.0	BPSK	1	0	23.40	23.10	22.45	22.52	23.50	22.25	20.60	22.32	20.83	19.74	22.50	21.45
		1	1	23.21	23.28	22.61	22.55	23.51	22.52	20.73	22.47	20.88	19.78	22.59	21.53
		1	271	28.00	28.70	26.13	27.70	28.70	27.70	26.07	27.70	24.95	26.12	28.00	26.77
		1	272	25.55	25.34	24.82	24.40	25.49	24.54	23.11	24.47	23.37	22.74	24.56	23.61
		135	67	25.36	28.54	28.00	24.43	28.65	27.70	23.03	27.60	26.26	22.71	27.81	26.75
		270	0	25.28	28.37	27.33	24.42	28.46	27.41	22.98	27.43	26.11	22.67	27.53	26.58
	QPSK	1	0	22.91	22.77	22.18	21.91	23.00	21.95	20.19	21.89	20.60	19.16	22.10	21.03
		1	1	22.93	22.73	22.14	22.11	23.09	21.92	20.18	22.00	20.51	19.45	21.95	20.92
		1	271	27.66	28.08	25.65	26.85	28.46	26.83	26.30	27.45	24.53	26.20	27.96	27.00
		1	272	25.46	25.44	24.83	24.36	25.29	24.53	22.93	24.53	23.30	22.56	24.62	23.54
		135	67	24.34	27.98	27.28	23.40	28.46	26.85	21.96	27.49	26.30	21.70	27.69	26.78
		270	0	24.26	27.87	26.54	23.37	27.34	26.19	21.97	26.86	25.58	21.66	27.07	26.10
	16QAM	1	0	23.00	22.82	22.16	22.25	23.04	22.01	19.92	22.09	20.61	19.34	22.16	21.09
		1	1	22.90	22.77	22.29	22.36	23.37	21.97	19.95	22.14	20.80	19.46	22.22	21.29
		1	271	27.14	27.71	25.32	26.34	27.25	26.04	25.65	26.88	24.09	25.64	26.97	25.93
		1	272	25.65	25.50	24.72	24.77	25.63	24.87	22.99	24.61	23.40	22.90	24.68	24.03
		135	67	23.73	27.56	26.75	22.89	27.65	26.20	21.51	26.84	25.55	21.19	26.98	26.07
		270	0	23.71	26.85	25.81	22.86	26.69	25.53	21.52	25.81	24.55	21.19	25.97	25.01
	64QAM	1	0	22.54	22.17	21.67	21.52	22.73	21.41	19.79	21.42	19.78	19.05	21.69	20.88
		1	1	22.32	22.22	21.38	21.44	22.69	21.46	20.06	21.48	20.45	19.11	21.73	20.49
		1	271	26.34	26.63	24.34	24.96	26.12	25.19	24.39	25.66	23.55	24.12	26.02	24.92
		1	272	25.77	25.61	24.51	24.81	25.45	24.86	22.98	24.56	23.25	22.77	24.88	23.84
		135	67	23.75	26.28	25.70	22.87	26.25	24.75	21.57	25.25	24.03	21.26	25.50	24.51
		270	0	23.72	26.31	25.51	22.85	26.22	25.01	21.48	25.26	24.02	21.20	25.41	24.57
	256QAM	1	0	20.92	20.66	20.14	19.83	20.99	19.84	18.09	19.79	18.22	17.23	20.07	18.71
		1	1	20.90	20.72	19.86	19.96	21.01	19.88	17.99	19.57	17.96	17.43	19.62	19.05
		1	271	24.54	24.51	23.06	23.42	24.21	23.19	22.23	23.13	22.08	21.73	23.40	22.66
		1	272	24.30	24.42	22.95	23.35	24.28	23.21	21.89	23.48	22.00	21.85	23.38	22.56
		135	67	22.19	24.22	23.60	21.30	24.33	23.35	20.06	23.21	22.06	19.75	23.42	22.50
		270	0	22.32	24.19	23.61	21.32	24.39	23.34	19.97	23.34	22.10	19.70	23.50	22.46

8.11. LTE BAND 48

LTE BAND 48

Test Engineer ID:	25780	Test Date:	3/4/2022
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OUTPUT POWER FOR LTE BAND 48 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				55265	55990	56715	55260	55990	56715	55265	55990	56715	55260	55990	56715
5.0	QPSK	1	0	25.24	25.31	25.27	25.41	25.46	25.39	24.05	24.23	23.80	25.10	25.35	25.01
		1	12	25.35	25.40	25.33	25.47	25.60	25.51	24.15	24.30	23.92	25.15	25.50	25.14
		1	24	25.31	25.38	25.31	25.46	25.54	25.48	24.09	24.25	23.86	25.10	25.43	25.07
		12	0	24.63	24.69	24.65	24.80	24.90	24.81	23.42	23.62	23.17	24.20	24.46	24.08
		12	6	24.65	24.73	24.68	24.81	24.93	24.84	23.47	23.65	23.21	24.21	24.50	24.12
	16QAM	12	11	24.58	24.70	24.65	24.78	24.89	24.80	23.41	23.62	23.17	24.17	24.49	24.08
		25	0	24.60	24.70	24.66	24.80	24.90	24.80	23.44	23.60	23.17	24.17	24.49	24.11
		1	0	24.60	24.82	24.60	24.84	24.78	24.90	23.64	23.83	23.34	24.56	24.69	24.39
		1	12	24.66	24.88	24.76	24.92	24.94	24.99	23.74	23.99	23.47	24.72	24.95	24.55
		1	24	24.64	24.84	24.65	24.87	24.87	24.86	23.67	23.89	23.48	24.64	24.87	24.46
	64QAM	12	0	23.68	23.59	23.79	23.83	24.00	23.79	22.60	22.64	22.26	23.23	23.50	23.27
		12	6	23.71	23.62	23.82	23.87	23.99	23.80	22.64	22.65	22.34	23.26	23.54	23.25
		12	11	23.67	23.62	23.77	23.81	23.97	23.75	22.62	22.66	22.31	23.21	23.53	23.24
		25	0	23.61	23.67	23.69	23.76	23.91	23.77	22.45	22.64	22.21	23.19	23.50	23.13
		1	0	23.56	23.69	23.62	23.76	23.80	23.69	22.66	22.84	22.42	23.34	23.80	23.35
	256QAM	1	12	23.63	23.72	23.70	23.80	23.90	23.78	22.72	22.89	22.48	23.45	23.88	23.46
		1	24	23.65	23.74	23.69	23.82	23.90	23.75	22.70	22.86	22.44	23.45	23.90	23.39
		12	0	22.48	22.61	22.64	22.76	23.01	22.73	21.52	21.78	21.23	22.27	22.69	22.18
		12	6	22.53	22.64	22.68	22.78	23.01	22.77	21.54	21.80	21.25	22.33	22.73	22.13
		12	11	22.47	22.60	22.64	22.75	22.98	22.72	21.53	21.78	21.22	22.28	22.69	22.17

OUTPUT POWER FOR LTE BAND 48 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				55290	55990	56690	55290	55990	56690	55290	55990	56690	55290	55990	56690
10.0	QPSK	1	0	25.26	25.35	25.39	25.55	25.58	25.54	23.62	24.20	23.90	25.45	25.30	25.47
		1	24	25.30	25.40	25.37	25.55	25.60	25.56	24.27	24.30	23.98	25.45	25.32	25.50
		1	49	25.29	25.37	25.35	25.50	25.57	25.55	24.22	24.24	23.95	25.46	25.32	25.49
		25	0	24.66	24.71	24.73	24.92	24.99	24.93	23.48	23.50	23.31	24.55	24.39	24.49
		25	12	24.69	24.73	24.76	24.94	25.01	24.96	23.61	23.63	23.35	24.58	24.43	24.60
	16QAM	25	24	24.69	24.72	24.77	24.92	25.00	24.96	23.60	23.66	23.35	24.57	24.44	24.59
		50	0	24.68	24.73	24.76	24.93	25.00	24.94	23.59	23.61	23.32	24.54	24.42	24.49
		1	0	24.73	24.69	24.80	24.84	24.81	24.81	23.87	23.89	23.59	24.84	24.64	24.84
		1	24	24.73	24.80	24.80	24.90	24.84	24.83	23.91	23.98	23.60	24.83	24.68	24.83
		1	49	24.74	24.68	24.81	24.83	24.81	24.73	24.16	24.16	23.61	24.82	24.67	24.82
	64QAM	25	0	23.67	23.71	23.71	23.94	23.99	23.91	22.47	22.50	22.33	23.59	23.43	23.53
		25	12	23.68	23.72	23.73	23.95	24.01	23.93	22.64	22.65	22.33	23.61	23.44	23.63
		25	24	23.70	23.73	23.75	23.94	24.01	23.95	22.64	22.63	22.37	23.59	23.48	23.63
		50	0	23.69	23.74	23.75	23.91	23.99	23.95	22.62	22.62	22.33	23.55	23.42	23.50
		1	0	23.65	23.59	23.69	23.81	23.84	23.91	23.86	22.78	23.65	23.35	24.17	23.71
	256QAM	1	24	23.68	23.71	23.70	23.80	23.88	23.87	22.84	22.95	23.58	23.21	24.17	23.81
		1	49	23.69	23.70	23.72	23.79	23.91	23.89	23.05	22.97	23.44	23.11	24.20	23.91
		25	0	22.70	22.74	22.70	22.94	22.98	22.92	21.51	21.54	22.43	22.05	23.00	22.55
		25	12	22.73	22.78	22.73	22.95	23.01	22.96	21.65	21.65	22.38	22.01	23.02	22.71
		25	24	22.71	22.79	22.74	22.93	23.00	22.92	21.67	21.67	22.32	21.95	23.04	22.76

OUTPUT POWER FOR LTE BAND 48 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				55315	55990	56665	55315	55990	56665	55315	55990	56665	55315	55990	56665
15.0	QPSK	1	0	25.25	25.34	25.36	25.53	25.54	25.50	24.11	24.21	23.85	25.16	25.20	25.18
		1	37	25.31	25.40	25.38	25.54	25.60	25.52	24.13	24.30	23.94	25.24	25.45	25.32
		1	74	25.31	25.34	25.39	25.51	25.54	25.52	24.12	24.30	23.94	25.15	25.50	25.26
		36	0	24.67	24.73	24.72	24.82	24.94	24.87	23.50	23.68	23.25	24.29	24.38	24.24
		36	16	24.68	24.75	24.75	24.88	24.93	24.89	23.52	23.71	23.29	24.28	24.46	24.27
		36	35	24.71	24.77	24.77	24.89	24.95	24.87	23.54	23.75	23.33	24.29	24.53	24.29
		75	0	24.67	24.74	24.72	24.88	24.95	24.87	23.50	23.70	23.28	24.26	24.45	24.24
		75	0	24.48	24.53	24.57	24.74	24.69	24.85	23.76	23.92	23.60	24.54	24.63	24.59
	1	37	24.61	24.60	24.64	24.83	24.76	24.89	23.79	23.90	23.64	24.62	24.80	24.70	
	1	74	24.55	24.59	24.58	24.80	24.72	24.84	23.75	24.02	23.65	24.55	24.89	24.70	
	36	0	23.69	23.75	23.72	23.80	23.97	23.88	22.51	22.72	22.30	23.30	23.40	23.27	
	36	16	23.69	23.75	23.75	23.89	23.96	23.91	22.53	22.74	22.34	23.31	23.48	23.29	
	36	35	23.71	23.78	23.77	23.91	23.97	23.93	22.56	22.76	22.37	23.32	23.54	23.33	
	75	0	23.69	23.75	23.74	23.89	23.95	23.89	22.55	22.72	22.32	23.32	23.47	23.27	
	1	0	23.60	23.63	23.65	23.77	23.82	23.78	22.78	22.94	23.68	23.07	23.46	23.76	
	1	37	23.75	23.72	23.73	23.84	23.93	23.95	22.71	23.01	23.66	22.91	23.44	23.84	
	1	74	23.75	23.66	23.63	23.80	23.84	23.86	22.83	23.06	23.20	22.64	23.39	23.84	
	36	0	22.72	22.73	22.71	22.80	22.94	22.85	21.51	21.72	22.44	21.70	22.19	22.47	
	36	16	22.72	22.72	22.73	22.87	22.93	22.87	21.53	21.75	22.38	21.60	22.21	22.57	
	36	35	22.76	22.73	22.77	22.88	22.93	22.90	21.53	21.76	22.30	21.54	22.22	22.66	
	75	0	22.76	22.74	22.75	22.89	22.94	22.88	21.52	21.75	22.34	21.60	22.20	22.57	
	1	0	20.55	20.52	20.64	20.69	20.83	20.82	19.50	19.75	20.64	19.86	20.29	20.55	
	1	37	20.62	20.70	20.73	20.77	20.95	20.84	19.67	19.88	20.48	19.66	20.33	20.87	
	1	74	20.77	20.68	20.85	20.85	20.89	20.93	19.71	20.05	20.35	19.61	20.31	20.96	
	36	0	20.73	20.71	20.70	20.79	20.94	20.87	19.53	19.72	20.39	19.70	20.17	20.49	
	36	16	20.71	20.73	20.74	20.88	20.93	20.88	19.52	19.72	20.36	19.62	20.22	20.58	
	36	35	20.75	20.76	20.75	20.88	20.96	20.89	19.52	19.75	20.29	19.54	20.23	20.66	
	75	0	20.73	20.73	20.73	20.89	20.94	20.88	19.52	19.72	20.33	19.62	20.20	20.59	

OUTPUT POWER FOR LTE BAND 48 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				55340	55990	56640	55340	55990	56640	55340	55990	56640	55340	55990	56640
20.0	QPSK	1	0	25.28	25.33	25.37	25.45	25.56	25.55	23.42	23.59	24.26	25.50	25.42	25.38
		1	49	25.32	25.36	25.35	25.52	25.60	25.53	23.41	23.63	24.30	25.43	25.37	25.47
		1	99	25.29	25.38	25.40	25.48	25.57	25.52	23.34	23.63	24.07	25.44	25.47	25.46
		50	0	24.71	24.75	24.75	24.84	24.90	24.89	22.70	22.98	23.61	24.47	24.44	24.44
		50	24	24.73	24.78	24.78	24.86	25.00	24.92	22.82	23.01	23.67	24.51	24.49	24.53
		50	49	24.74	24.80	24.79	24.86	25.00	24.94	22.83	23.03	23.59	24.52	24.52	24.54
		100	0	24.71	24.77	24.76	24.83	24.97	24.92	22.79	23.01	23.55	24.50	24.47	24.51
		1	0	24.69	24.65	24.78	24.80	25.03	25.03	23.08	23.29	23.94	24.78	24.70	24.76
		1	49	24.83	24.81	24.87	25.01	25.22	25.29	23.18	23.60	24.16	24.93	25.00	25.00
		1	99	24.67	24.74	24.91	24.79	24.98	25.04	23.15	23.31	23.71	24.79	24.75	24.82
	50	0	23.71	23.75	23.76	23.85	23.88	23.88	21.74	21.99	22.60	23.49	23.45	23.42	
	50	24	23.75	23.79	23.77	23.88	23.99	23.91	21.80	22.03	22.69	23.52	23.49	23.53	
	50	49	23.75	23.80	23.79	23.87	23.99	23.93	21.82	22.05	22.66	23.52	23.49	23.55	
	100	0	23.72	23.77	23.78	23.88	23.96	23.91	21.80	22.01	22.56	23.51	23.48	23.51	
	1	0	23.64	23.58	23.84	23.92	23.85	23.80	21.93	22.21	21.74	23.75	23.81	23.80	
	1	49	23.71	23.79	23.87	24.21	24.12	23.86	22.22	22.44	21.86	23.89	24.07	23.96	
	1	99	23.63	23.67	23.77	23.93	24.02	23.74	21.93	22.32	21.80	23.64	24.10	23.85	
	50	0	22.71	22.74	22.75	22.88	22.86	22.87	20.72	21.00	20.43	22.45	22.69	22.46	
	50	24	22.72	22.78	22.78	22.90	22.97	22.88	20.80	21.06	20.60	22.49	22.78	22.57	
	50	49	22.74	22.80	22.79	22.89	22.96	22.91	20.81	21.05	20.59	22.48	22.87	22.61	
	100	0	22.70	22.79	22.76	22.90	22.95	22.85	20.83	21.02	20.50	22.46	22.78	22.53	
	1	0	20.47	20.75	20.71	20.74	20.89	20.89	18.89	19.09	18.54	20.75	20.83	20.59	
	1	49	20.49	20.72	20.57	20.79	20.84	20.82	18.92	19.25	18.51	20.55	20.75	20.70	
	1	99	20.56	20.86	20.74	20.77	20.81	20.80	18.97	19.24	18.77	20.46	20.87	20.65	
	50	0	20.68	20.72	20.72	20.87	20.88	20.90	18.70	18.98	18.44	20.47	20.70	20.47	
	50	24	20.73	20.77	20.78	20.90	20.98	20.93	18.82	19.03	18.59	20.49	20.80	20.59	
	50	49	20.72	20.78	20.77	20.91	20.99	20.93	18.82	19.03	18.61	20.47	20.86	20.62	
	100	0	20.71	20.73	20.74	20.89	20.96	20.93	18.79	19.02	18.49	20.48	20.77	20.59	

8.12. LTE BAND 66 AND 5G NR n66

LTE BAND 66

Test Engineer ID:	25780	Test Date:	2/11/2022
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OUTPUT POWER FOR LTE BAND 66 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				131979	132322	132665	131979	132322	132665	131979	132322	132665	131979	132322	132665
				1710.7	1745.0	1779.3	1710.7	1745.0	1779.3	1710.7	1745.0	1779.3	1710.7	1745.0	1779.3
1.4	QPSK	1	0	25.67	25.64	25.63	25.58	25.59	25.56	25.34	25.37	25.33	25.11	25.13	25.11
		1	2	25.70	25.67	25.66	25.63	25.65	25.64	25.39	25.39	25.42	25.13	25.17	25.10
		1	5	25.67	25.65	25.65	25.63	25.67	25.59	25.34	25.36	25.33	25.09	25.17	25.12
		3	0	25.67	25.62	25.65	25.62	25.66	25.63	25.37	25.36	25.35	25.15	25.19	25.15
		3	1	25.68	25.64	25.68	25.66	25.70	25.66	25.37	25.50	25.39	25.18	25.20	25.15
		3	2	25.69	25.62	25.66	25.66	25.70	25.66	25.36	25.39	25.40	25.13	25.19	25.14
	6	0	24.98	24.92	24.93	24.96	25.00	24.93	24.46	24.50	24.46	24.14	24.19	24.11	
	16QAM	1	0	25.34	25.24	25.30	25.20	25.31	25.44	24.43	24.42	24.39	24.11	24.26	24.08
		1	2	25.43	25.32	25.31	25.22	25.39	25.43	24.50	24.46	24.46	24.20	24.15	24.09
		1	5	25.34	25.31	25.27	25.11	25.36	25.39	24.47	24.41	24.44	24.10	24.12	24.01
		3	0	25.19	25.13	25.17	25.11	25.24	25.25	24.45	24.46	24.52	24.18	24.18	24.16
		3	1	25.22	25.18	25.12	25.12	25.25	25.24	24.51	24.56	24.44	24.21	24.20	24.18
		3	2	25.21	25.14	25.18	25.11	25.25	25.27	24.52	24.45	24.54	24.23	24.17	24.20
	6	0	24.08	24.07	23.98	24.07	24.08	24.08	23.48	23.52	23.47	23.17	23.13	23.12	
	64QAM	1	0	24.05	24.25	24.05	24.06	23.97	24.28	23.43	23.38	23.47	23.08	23.27	23.10
		1	2	24.12	24.31	24.13	24.17	24.05	24.33	23.53	23.42	23.41	23.08	23.16	23.12
		1	5	24.13	24.25	24.14	24.11	24.08	24.30	23.40	23.48	23.43	23.11	23.24	23.12
		3	0	24.07	24.13	24.09	24.01	24.07	24.08	23.42	23.48	23.57	23.15	23.17	23.11
		3	1	24.08	24.12	24.09	24.03	24.08	24.12	23.42	23.49	23.48	23.21	23.18	23.19
		3	2	24.08	24.13	24.14	24.03	24.09	24.11	23.51	23.55	23.46	23.11	23.23	23.13
	6	0	22.99	23.03	22.98	22.94	22.96	22.96	22.49	22.50	22.48	22.21	22.25	22.05	
	256QAM	1	0	21.07	21.04	20.98	21.00	21.06	20.98	20.44	20.58	20.46	20.07	20.26	20.02
		1	2	21.10	21.07	21.00	21.04	21.05	21.01	20.52	20.45	20.55	20.13	20.34	20.22
		1	5	21.09	21.05	20.92	21.06	21.08	20.99	20.37	20.40	20.46	19.99	20.13	20.11
		3	0	21.00	21.10	20.95	20.93	20.95	20.93	20.51	20.46	20.42	20.14	20.13	20.11
		3	1	21.02	21.07	20.96	20.94	20.96	20.96	20.69	20.48	20.36	20.13	20.08	20.26
		3	2	21.04	21.10	20.96	20.94	20.98	20.95	20.60	20.48	20.58	20.18	20.12	20.13
	6	0	20.96	21.02	20.87	20.84	20.93	20.85	20.46	20.43	20.43	20.10	20.18	20.18	

OUTPUT POWER FOR LTE BAND 66 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				131987	132322	132657	131987	132322	132657	131987	132322	132657	131987	132322	132657
				1711.5	1745.0	1778.5	1711.5	1745.0	1778.5	1711.5	1745.0	1778.5	1711.5	1745.0	1778.5
3.0	QPSK	1	0	25.58	25.50	25.51	25.58	25.58	25.57	25.36	25.34	25.30	25.07	25.09	25.11
		1	7	25.70	25.67	25.62	25.69	25.70	25.62	25.41	25.50	25.43	25.18	25.20	25.14
		1	14	25.60	25.54	25.49	25.63	25.63	25.57	25.37	25.39	25.31	25.09	25.12	25.05
		8	0	24.98	24.93	24.90	24.96	24.96	24.91	24.57	24.60	24.56	24.14	24.19	24.18
		8	4	25.01	24.98	24.94	25.00	24.94	24.66	24.64	24.64	24.58	24.19	24.22	24.21
		8	7	24.98	24.97	24.93	25.01	24.99	24.93	24.59	24.61	24.59	24.18	24.19	24.15
	15	0	24.97	24.92	24.90	25.00	24.97	24.95	24.59	24.59	24.52	24.19	24.17	24.16	
	16QAM	1	0	25.21	25.15	25.25	25.30	25.36	25.33	24.53	24.37	24.54	24.13	24.11	24.06
		1	7	25.33	25.35	25.39	25.36	25.38	25.38	24.61	24.58	24.63	24.22	24.17	24.21
		1	14	25.24	25.17	25.24	25.33	25.34	25.36	24.55	24.50	24.52	24.16	24.09	24.13
		8	0	24.08	24.04	23.98	24.02	24.11	24.01	23.61	23.61	23.56	23.16	23.20	23.14
		8	4	24.12	24.08	24.00	24.07	24.15	24.04	23.62	23.63	23.59	23.27	23.20	23.23
		8	7	24.11	24.06	24.02	24.03	24.12	24.03	23.61	23.61	23.59	23.18	23.19	23.15
	64QAM	15	0	24.03	24.02	23.97	24.03	24.04	24.02	23.61	23.60	23.61	23.17	23.18	23.14
		1	0	24.14	24.16	24.10	24.02	24.17	24.11	23.56	23.52	23.46	23.10	23.08	23.10
		1	7	24.26	24.25	24.14	24.10	24.28	24.22	23.64	23.64	23.51	23.15	23.18	23.18
		1	14	24.15	24.17	24.11	24.08	24.20	24.19	23.53	23.52	23.50	23.03	23.18	23.07
		8	0	22.98	23.01	22.95	22.96	23.07	22.99	22.63	22.59	22.55	22.15	22.13	22.15
		8	4	23.02	23.03	23.00	23.00	23.10	23.02	22.67	22.57	22.62	22.18	22.15	22.21
	15	0	22.97	22.99	22.93	22.94	23.01	22.94	22.62	22.63	22.56	22.17	22.18	22.15	
	256QAM	1	0	21.04	20.90	21.07	20.95	20.87	21.00	20.45	20.29	20.50	19.95	20.08	19.98
		1	7	21.18	21.08	21.12	21.06	21.08	21.06	20.57	20.52	20.59	20.18	20.18	20.12
		1	14	21.05	21.05	21.08	20.91	20.93	20.97	20.32	20.51	20.44	20.05	20.08	20.05
		8	0	20.94	20.95	20.91	20.87	20.94	20.91	20.60	20.61	20.56	20.16	20.19	20.13
		8	4	20.99	20.99	20.94	20.93	20.98	20.95	20.63	20.60	20.56	20.21	20.20	20.15
		8	7	20.96	21.00	20.94	20.92	20.99	20.94	20.60	20.55	20.59	20.19	20.14	20.13
	15	0	20.96	20.95	20.88	20.90	20.93	20.91	20.59	20.62	20.53	20.16	20.18	20.12	

OUTPUT POWER FOR LTE BAND 66 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)												
				ANT 1			ANT 2			ANT 3			ANT 4			
				131997	132322	132647	131997	132322	132647	131997	132322	132647	131997	132322	132647	
5.0	QPSK	1	0	25.61	25.55	25.59	25.61	25.61	25.65	25.45	25.36	25.40	25.16	25.11	25.12	
		1	12	25.70	25.67	25.64	25.70	25.68	25.69	25.50	25.47	25.43	25.14	25.20	25.17	
		1	24	25.62	25.57	25.59	25.68	25.65	25.65	25.43	25.45	25.42	25.11	25.14	25.07	
		12	0	24.89	24.88	24.92	24.96	24.98	24.96	24.56	24.58	24.59	24.15	24.16	24.13	
		12	6	24.96	24.92	24.92	24.98	24.99	24.98	24.60	24.64	24.56	24.16	24.20	24.13	
		12	11	24.93	24.89	24.92	24.96	24.95	24.95	24.59	24.58	24.54	24.11	24.13	24.09	
	16QAM	25	0	24.97	24.92	24.92	24.97	24.95	24.96	24.57	24.59	24.57	24.14	24.13	24.11	
		1	0	25.28	25.25	25.35	25.38	25.43	25.49	24.52	24.56	24.60	24.23	24.21	24.07	
		1	12	25.35	25.30	25.38	25.48	25.47	25.54	24.59	24.66	24.63	24.26	24.23	24.17	
		1	24	25.31	25.26	25.32	25.37	25.43	25.54	24.59	24.71	24.58	24.25	24.24	24.13	
		12	0	23.87	23.95	23.99	24.01	24.06	23.99	23.58	23.61	23.59	23.09	23.10	23.21	
		12	6	23.97	23.97	24.02	24.02	24.08	24.01	23.71	23.69	23.70	23.13	23.19	23.02	
	64QAM	12	11	23.94	23.94	23.99	24.00	24.03	23.97	23.53	23.67	23.55	23.14	23.15	23.12	
		25	0	23.96	23.97	23.92	23.97	24.02	23.98	23.60	23.58	23.56	23.16	23.14	23.15	
		1	0	24.11	24.19	24.20	24.15	24.24	24.27	23.51	23.55	23.61	23.05	23.17	23.05	
		1	12	24.17	24.20	24.17	24.19	24.28	24.26	23.60	23.57	23.67	23.16	23.30	23.06	
		1	24	24.12	24.21	24.12	24.15	24.21	24.28	23.53	23.63	23.71	23.16	23.18	23.06	
		12	0	22.90	22.91	22.91	23.08	22.91	23.05	22.57	22.62	22.60	22.11	22.17	22.11	
	256QAM	12	6	22.99	22.94	22.92	22.92	23.07	22.92	23.05	22.56	22.62	22.09	22.21	22.16	
		12	11	22.96	22.89	22.89	23.07	22.87	23.04	22.51	22.62	22.41	22.18	22.17	22.09	
		25	0	22.93	22.95	22.95	22.96	22.97	22.94	22.58	22.58	22.53	22.14	22.15	22.12	
		1	0	21.01	21.06	21.06	21.01	20.91	20.99	20.42	20.48	20.51	20.10	20.07	20.08	
		1	12	21.09	21.13	21.03	21.08	21.03	20.98	20.57	20.60	20.50	20.20	20.22	20.02	
		1	24	21.09	21.13	20.98	21.07	20.98	20.94	20.59	20.50	20.43	20.17	20.21	20.03	
			12	0	20.83	20.95	20.95	20.93	20.94	20.94	20.57	20.58	20.57	20.11	20.12	20.07
			12	6	20.95	20.95	20.95	20.96	20.94	20.93	20.59	20.61	20.56	20.15	20.13	20.07
			12	11	20.91	20.90	20.92	20.93	20.93	20.91	20.58	20.59	20.52	20.13	20.17	20.09
			25	0	20.89	20.93	20.93	20.94	20.92	20.92	20.54	20.56	20.55	20.10	20.16	20.09

OUTPUT POWER FOR LTE BAND 66 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)												
				ANT 1			ANT 2			ANT 3			ANT 4			
				132022	132322	132622	132022	132322	132622	132022	132322	132622	132022	132322	132622	
10.0	QPSK	1	0	25.66	25.62	25.65	25.61	25.54	25.57	25.44	25.43	25.43	25.10	25.15	25.10	
		1	24	25.70	25.68	25.67	25.70	25.61	25.65	25.49	25.50	25.45	25.12	25.19	25.20	
		1	49	25.65	25.62	25.61	25.62	25.56	25.61	25.44	25.45	25.40	25.08	25.11	25.05	
		25	0	24.98	24.93	24.96	24.99	24.89	24.93	24.53	24.62	24.57	24.15	24.13	24.13	
		25	12	25.08	25.02	24.97	24.99	24.91	24.68	24.68	24.64	24.22	24.24	24.15		
		25	24	25.06	24.99	25.02	24.99	24.94	24.98	24.66	24.68	24.62	24.18	24.21	24.19	
	16QAM	50	0	25.05	25.00	24.95	25.01	24.97	24.89	24.66	24.65	24.56	24.20	24.24	24.11	
		1	0	25.32	25.29	25.28	25.34	25.39	25.37	24.57	24.47	24.55	24.13	24.09	24.14	
		1	24	25.30	25.26	25.30	25.30	25.39	25.48	24.68	24.54	24.53	24.18	24.17	24.10	
		1	49	25.31	25.27	25.27	25.32	25.33	25.42	24.50	24.54	24.53	24.05	24.03	24.06	
		25	0	24.05	23.96	24.02	24.05	23.94	23.95	23.53	23.60	23.59	23.18	23.12	23.17	
		25	12	24.12	24.06	24.00	24.03	24.02	23.96	23.67	23.70	23.60	23.22	23.23	23.12	
	64QAM	25	24	24.09	24.04	24.06	24.00	23.96	24.02	23.64	23.71	23.64	23.19	23.24	23.18	
		50	0	24.06	24.03	23.96	24.00	23.98	23.89	23.65	23.68	23.55	23.21	23.23	23.13	
		1	0	24.14	24.25	24.15	24.27	24.20	24.12	23.53	23.64	23.54	23.17	23.19	23.10	
		1	24	24.17	24.27	24.19	24.28	24.30	24.24	23.59	23.67	23.50	23.19	23.24	23.15	
		1	49	24.10	24.27	24.15	24.17	24.14	24.17	23.54	23.55	23.50	23.02	23.21	23.02	
		25	0	22.95	22.99	22.96	22.99	22.97	22.86	22.55	22.59	22.55	22.17	22.14	22.12	
	256QAM	25	12	23.02	23.06	22.97	23.02	23.00	22.88	22.65	22.67	22.69	22.21	22.22	22.14	
		25	24	23.01	23.03	23.03	22.98	22.96	22.94	22.68	22.67	22.64	22.21	22.21	22.23	
		50	0	23.02	23.02	22.96	22.97	22.98	22.85	22.67	22.65	22.56	22.18	22.20	22.11	
		1	0	21.09	21.04	21.03	20.92	20.90	20.95	20.51	20.51	20.49	20.06	20.03	19.95	
		1	24	21.19	21.15	21.16	21.03	20.99	21.07	20.57	20.57	20.49	20.14	20.20	20.23	
		1	49	21.06	21.06	21.04	20.97	20.91	21.01	20.47	20.40	20.46	19.96	20.05	20.14	
			25	0	20.93	20.91	20.95	20.96	20.90	20.86	20.57	20.56	20.54	20.17	20.10	20.12
			25	12	21.01	21.00	20.95	20.98	20.94	20.87	20.70	20.70	20.64	20.23	20.22	20.13
		25	24	20.99	20.99	20.99	20.95	20.96	20.89	20.68	20.66	20.65	20.23	20.17	20.17	
		25	0	20.98	20.98	20.93	20.93	20.96	20.84	20.66	20.66	20.53	20.21	20.19	20.10	

OUTPUT POWER FOR LTE BAND 66 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				132047	132322	132597	132047	132322	132597	132047	132322	132597	132047	132322	132597
				1717.5	1745.0	1772.5	1717.5	1745.0	1772.5	1717.5	1745.0	1772.5	1717.5	1745.0	1772.5
15.0	QPSK	1	0	25.57	25.55	25.61	25.64	25.52	25.62	25.42	25.42	25.43	25.07	25.06	25.12
		1	37	25.67	25.63	25.70	25.68	25.60	25.70	25.43	25.50	25.43	25.12	25.20	25.09
		1	74	25.61	25.57	25.62	25.58	25.59	25.64	25.32	25.35	25.39	25.01	25.06	25.07
		36	0	24.87	24.86	24.87	24.91	24.88	24.90	24.45	24.47	24.47	24.01	24.04	24.07
		36	16	24.98	24.96	24.91	25.01	24.96	24.90	24.57	24.59	24.52	24.11	24.18	24.05
		36	35	24.95	24.95	24.95	24.96	24.96	24.95	24.53	24.57	24.53	24.10	24.12	24.11
		75	0	24.92	24.91	24.84	24.98	24.95	24.87	24.54	24.52	24.41	24.10	24.12	24.01
		1	0	25.12	25.13	25.18	25.24	25.21	25.35	24.47	24.39	24.58	24.15	24.02	24.08
	1	37	25.30	25.24	25.30	25.40	25.24	25.40	24.62	24.55	24.51	24.14	24.12	24.11	
	1	74	25.23	25.12	25.17	25.20	25.27	25.29	24.53	24.46	24.47	24.09	24.04	24.11	
	36	0	23.89	23.88	23.90	23.94	23.93	23.92	23.45	23.46	23.49	23.00	23.03	23.01	
	36	16	23.98	23.98	23.91	24.03	24.00	23.92	23.55	23.58	23.47	23.13	23.14	23.04	
	36	35	23.98	23.97	23.97	24.00	23.95	23.97	23.57	23.55	23.53	23.10	23.10	23.11	
	75	0	23.94	23.94	23.90	23.98	23.96	23.89	23.51	23.55	23.46	23.13	23.10	23.02	
	1	0	24.08	24.19	24.32	24.12	24.03	24.19	23.48	23.57	23.47	22.94	23.11	23.13	
	1	37	24.16	24.26	24.32	24.30	24.17	24.25	23.53	23.60	23.54	23.22	23.24	23.07	
	1	74	24.12	24.23	24.27	24.21	24.16	24.17	23.43	23.58	23.50	23.02	23.17	23.04	
	36	0	22.86	22.87	22.90	22.86	22.83	22.87	22.45	22.45	22.48	22.02	22.01	22.00	
	36	16	22.95	22.97	22.92	22.94	22.94	22.90	22.57	22.56	22.50	22.10	22.13	22.03	
	36	35	22.94	22.93	22.95	22.94	22.90	22.92	22.54	22.54	22.54	22.12	22.13	22.11	
	75	0	22.92	22.94	22.87	22.93	22.90	22.85	22.55	22.53	22.42	22.11	22.12	22.01	
	1	0	20.96	20.93	21.01	20.95	20.90	20.91	20.34	20.41	20.46	19.95	20.01	19.97	
	1	37	21.07	21.02	21.15	21.06	21.08	21.03	20.59	20.58	20.49	20.12	20.09	20.06	
	1	74	20.98	20.89	20.98	21.02	20.91	20.98	20.46	20.37	20.37	20.01	20.08	19.97	
	36	0	20.85	20.83	20.85	20.83	20.81	20.82	20.46	20.45	20.48	20.00	20.03	20.03	
	36	16	20.91	20.94	20.88	20.92	20.91	20.87	20.55	20.56	20.47	20.10	20.13	20.03	
	36	35	20.90	20.91	20.93	20.91	20.87	20.90	20.53	20.56	20.52	20.13	20.11	20.12	
	75	0	20.89	20.93	20.86	20.91	20.89	20.82	20.55	20.53	20.43	20.11	20.10	20.01	

OUTPUT POWER FOR LTE BAND 66 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				132072	132322	132572	132072	132322	132572	132072	132322	132572	132072	132322	132572
				1720.0	1745.0	1770.0	1720.0	1745.0	1770.0	1720.0	1745.0	1770.0	1720.0	1745.0	1770.0
20.0	QPSK	1	0	25.70	25.65	25.62	25.59	25.57	25.59	25.41	25.33	25.46	25.08	25.15	25.18
		1	49	25.69	25.69	25.64	25.68	25.64	25.70	25.50	25.48	25.47	25.14	25.20	25.18
		1	99	25.68	25.63	25.61	25.61	25.61	25.61	25.45	25.44	25.35	25.13	25.20	25.15
		50	0	24.91	24.90	24.90	24.87	24.88	24.84	24.49	24.51	24.49	24.07	24.14	24.08
		50	24	25.02	24.99	24.97	24.95	24.97	24.95	24.60	24.62	24.56	24.17	24.21	24.17
		50	49	24.99	24.95	24.95	24.92	24.93	24.92	24.56	24.57	24.53	24.17	24.21	24.16
		100	0	24.99	24.97	24.88	24.93	24.93	24.93	24.58	24.58	24.53	24.17	24.18	24.17
		1	0	25.26	25.17	25.20	25.25	25.18	25.27	24.58	24.47	24.44	24.25	24.12	24.09
	1	49	25.45	25.37	25.34	25.23	25.22	25.31	24.75	24.63	24.89	24.43	24.30	24.34	
	1	99	25.26	25.15	25.21	25.14	25.21	25.12	24.60	24.54	24.53	24.23	24.21	24.00	
	50	0	23.94	23.92	23.93	23.87	23.89	23.82	23.48	23.52	23.45	23.09	23.12	23.08	
	50	24	24.03	24.00	24.01	23.96	23.96	23.90	23.60	23.62	23.55	23.21	23.22	23.16	
	50	49	24.00	23.96	23.97	23.92	23.92	23.91	23.58	23.61	23.51	23.18	23.22	23.14	
	100	0	23.99	23.97	23.89	23.92	23.92	23.87	23.57	23.58	23.53	23.17	23.18	23.15	
	1	0	24.21	24.21	24.19	24.28	24.17	24.26	23.60	23.43	23.48	23.30	23.14	23.07	
	1	49	24.43	24.38	24.41	24.39	24.32	24.34	23.64	23.56	23.61	23.13	23.11	23.16	
	1	99	24.28	24.24	24.23	24.23	24.21	24.28	23.69	23.52	23.47	23.20	23.12	23.09	
	50	0	22.95	22.85	22.88	22.82	22.85	22.82	22.45	22.50	22.49	22.06	22.11	22.08	
	50	24	22.96	22.95	22.97	22.91	22.92	22.89	22.58	22.59	22.55	22.17	22.22	22.15	
	50	49	22.94	22.91	22.95	22.88	22.89	22.86	22.59	22.59	22.51	22.14	22.16	22.12	
	100	0	22.93	22.93	22.87	22.87	22.91	22.87	22.60	22.55	22.51	22.13	22.20	22.12	
	1	0	21.03	21.11	21.03	20.99	21.02	20.92	20.53	20.42	20.40	20.08	20.09	20.00	
	1	49	21.15	21.10	21.10	21.03	21.08	20.98	20.52	20.57	20.55	20.11	20.29	20.14	
	1	99	21.08	21.02	21.14	20.92	20.95	20.89	20.50	20.68	20.44	20.10	20.22	20.05	
	50	0	20.84	20.84	20.86	20.79	20.81	20.77	20.49	20.45	20.48	20.04	20.06	20.08	
	50	24	20.92	20.93	20.94	20.85	20.89	20.86	20.59	20.58	20.53	20.20	20.18	20.14	
	50	49	20.88	20.88	20.91	20.81	20.85	20.81	20.56	20.58	20.49	20.14	20.20	20.11	
	100	0	20.91	20.90	20.86	20.83	20.86	20.84	20.59	20.53	20.53	20.15	20.18	20.11	

5G NR n66

Test Engineer ID:	26277	Test Date:	1/28/2022
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OUTPUT POWER FOR 5G NR n66 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				342500	349000	355500	342500	349000	355500	342500	349000	355500	342500	349000	355500
5.0	BPSK	1	0	25.39	25.29	25.26	25.39	25.35	25.31	25.07	24.98	24.91	24.88	24.96	24.70
		1	1	25.70	25.49	25.44	25.59	25.58	25.53	25.43	25.33	25.30	25.17	25.15	24.98
		1	23	25.62	25.58	25.46	25.60	25.60	25.55	25.38	25.48	25.31	25.13	25.11	24.95
		1	24	25.42	25.42	25.19	25.38	25.38	25.31	24.95	25.03	24.91	24.94	24.96	24.74
		12	6	25.53	25.66	25.48	25.63	25.64	25.59	25.42	25.47	25.38	25.20	25.12	24.94
	QPSK	25	0	25.36	25.38	25.17	25.37	25.35	25.32	24.91	25.02	24.90	24.96	24.92	24.73
		1	0	24.75	24.88	24.79	24.93	24.81	24.85	24.46	24.47	24.44	24.44	24.38	24.25
		1	1	25.66	25.57	25.46	25.61	25.51	25.56	25.43	25.39	25.39	25.20	25.19	25.01
		1	23	25.66	25.68	25.49	25.63	25.57	25.56	25.40	25.50	25.38	25.17	25.17	25.03
		1	24	24.91	24.98	24.83	24.89	24.93	24.85	24.48	24.60	24.49	24.49	24.48	24.27
	16QAM	12	6	25.55	25.66	25.53	25.68	25.70	25.58	25.38	25.50	25.37	25.15	25.12	24.93
		25	0	24.59	24.96	24.75	24.93	24.95	24.82	24.50	24.58	24.43	24.48	24.43	24.27
		1	0	23.61	24.09	24.01	24.10	24.20	24.07	23.67	23.66	23.65	23.64	23.55	23.51
		1	1	24.57	25.07	25.03	25.17	25.23	25.11	24.71	24.61	24.71	24.69	24.67	24.44
		1	23	24.73	25.16	25.04	25.21	25.19	25.21	24.83	24.75	24.67	24.69	24.66	24.45
	64QAM	1	24	23.79	24.14	24.06	24.16	24.16	24.15	23.87	23.75	23.68	23.67	23.65	23.52
		12	6	24.84	24.96	24.78	24.95	25.05	24.92	24.42	24.45	24.43	24.45	24.40	24.19
		25	0	23.76	23.90	23.68	23.95	23.89	23.86	23.63	23.48	23.51	23.31	23.35	23.18
		1	0	23.55	23.54	23.40	23.51	23.68	23.63	23.14	23.05	23.04	23.05	22.91	22.85
		1	1	23.53	23.56	23.36	23.61	23.67	23.68	23.23	23.05	23.10	23.07	22.91	22.83
	256QAM	1	23	23.61	23.55	23.39	23.62	23.59	23.70	23.21	23.15	23.07	23.11	23.01	22.81
		1	24	23.62	23.60	23.32	23.50	23.56	23.67	23.22	23.08	23.11	23.05	23.03	22.81
		12	6	23.31	23.48	23.30	23.46	23.46	23.44	23.18	23.12	22.93	22.89	22.80	22.69
		25	0	23.28	23.45	23.28	23.44	23.37	23.42	23.02	22.95	22.94	22.90	22.82	22.71
		1	0	21.40	21.25	21.19	21.33	21.35	21.34	21.06	20.92	20.85	20.90	20.82	20.66

OUTPUT POWER FOR 5G NR n66 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				343000	349000	355000	343000	349000	355000	343000	349000	355000	343000	349000	355000
10.0	BPSK	1	0	25.44	25.33	25.33	25.40	25.36	21.36	25.13	24.88	24.89	24.95	24.88	24.69
		1	1	25.70	25.55	25.47	25.60	25.60	25.36	25.48	25.26	25.34	25.16	25.10	24.97
		1	50	25.65	25.61	25.56	25.55	25.59	25.62	25.47	25.38	25.38	25.15	25.12	24.93
		1	51	25.44	25.37	25.35	25.39	25.41	25.55	25.06	24.96	24.93	24.93	24.82	24.70
		25	12	25.60	25.61	25.52	25.62	25.63	25.35	25.44	25.37	25.34	25.10	25.03	24.87
	QPSK	50	0	25.39	25.43	25.33	25.43	25.43	25.46	25.10	24.99	24.93	24.96	24.88	24.71
		1	0	24.81	24.94	24.87	24.96	24.84	25.33	24.45	24.38	24.48	24.42	24.46	24.25
		1	1	25.65	25.63	25.52	25.66	25.53	24.91	25.48	25.30	25.38	25.20	25.16	24.97
		1	50	25.62	25.66	25.55	25.59	25.61	25.57	25.48	25.40	25.37	25.17	25.10	24.95
		1	51	24.95	24.98	24.81	24.93	25.00	25.48	24.53	24.52	24.49	24.46	24.39	24.25
	16QAM	25	12	25.62	25.69	25.52	25.70	25.66	24.80	25.50	25.44	25.38	25.18	25.09	24.91
		50	0	24.78	24.97	24.88	24.97	25.01	25.56	24.48	24.53	24.47	24.47	24.38	24.21
		1	0	23.81	24.08	24.13	24.16	24.04	24.86	23.81	23.60	23.69	23.66	23.59	23.50
		1	1	24.86	25.13	25.03	25.25	25.14	24.02	24.76	24.62	24.71	24.72	24.54	24.51
		1	50	25.22	25.24	25.10	25.21	25.19	25.11	24.76	24.78	24.70	24.77	24.63	24.45
	64QAM	1	51	24.17	24.20	24.00	24.17	24.13	25.11	23.70	23.68	23.58	23.72	23.64	23.46
		25	12	24.90	24.97	24.81	24.92	24.87	24.05	24.51	24.53	24.43	24.38	24.29	24.22
		50	0	23.97	24.03	23.79	23.90	23.94	24.88	23.49	23.54	23.39	23.49	23.31	23.25
		1	0	23.54	23.53	23.43	23.58	23.65	23.84	23.15	23.12	23.09	23.01	22.97	22.84
		1	1	23.49	23.49	23.44	23.56	23.67	23.45	23.18	23.07	23.03	23.08	23.05	22.85
	256QAM	1	50	23.51	23.70	23.46	23.54	23.55	23.50	23.13	23.11	23.11	23.13	23.09	22.92
		1	51	23.49	23.42	23.41	23.51	23.49	23.55	23.02	23.09	22.98	23.04	23.04	22.78
		25	12	23.43	23.47	23.30	23.39	23.40	23.64	22.97	23.00	22.88	22.99	22.94	22.67
		50	0	23.36	23.45	23.25	23.39	23.40	23.44	22.98	23.00	22.92	22.94	22.93	22.75
		1	0	21.49	21.47	21.24	21.31	21.36	23.38	20.94	20.85	20.88	20.84	20.81	20.62

OUTPUT POWER FOR 5G NR n66 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				343500	349000	354500	343500	349000	354500	343500	349000	354500	343500	349000	354500
15.0	BPSK	1	0	25.46	25.45	25.31	25.50	25.27	25.28	25.07	24.80	24.60	24.90	24.87	24.61
		1	1	25.69	25.59	25.46	25.70	25.52	25.48	25.37	25.20	25.15	25.01	25.13	24.82
		1	77	25.65	25.63	25.53	25.66	25.63	25.56	25.43	25.29	25.19	25.11	25.07	24.82
		1	78	25.46	25.46	25.33	25.50	25.40	25.32	25.06	24.91	24.82	24.99	24.88	24.66
		36	18	25.55	25.51	25.40	25.62	25.43	25.44	25.21	25.23	25.08	24.89	24.98	24.73
		75	0	25.45	25.38	25.26	25.48	25.29	25.28	25.00	24.86	24.75	24.79	24.84	24.58
		75	0	24.28	24.96	24.88	25.04	24.87	24.90	24.50	24.43	24.34	24.35	24.43	24.14
	QPSK	1	1	25.27	25.69	25.51	25.67	25.51	25.57	25.38	25.26	25.21	25.06	25.19	24.81
		1	77	25.70	25.64	25.51	25.66	25.66	25.48	25.50	25.36	25.27	25.20	25.05	24.88
		1	78	25.05	25.03	24.88	24.97	25.01	24.81	24.55	24.46	24.32	24.46	24.41	24.20
		36	18	25.69	25.57	25.48	25.65	25.48	25.45	25.29	25.32	25.16	25.00	25.01	24.72
		75	0	24.92	24.93	24.84	25.01	24.83	24.81	24.32	24.41	24.31	24.33	24.34	24.08
		1	0	24.07	24.24	24.05	24.22	24.14	24.03	23.63	23.51	23.59	23.48	23.63	23.39
		1	1	25.13	25.21	24.96	25.27	25.12	25.12	24.70	24.60	24.50	24.66	24.49	24.41
	16QAM	1	77	25.21	25.28	25.10	25.36	25.21	25.10	24.85	24.68	24.60	24.68	24.58	24.39
		1	78	24.24	24.15	24.01	24.17	24.18	24.10	23.74	23.68	23.67	23.64	23.56	23.37
		36	18	24.93	24.87	24.78	24.84	24.81	24.77	24.45	24.43	24.22	24.32	24.29	24.05
		75	0	23.90	23.87	23.81	24.00	23.93	23.84	23.54	23.38	23.24	23.30	23.34	23.07
		75	0	24.92	24.93	24.84	25.01	24.83	24.81	24.32	24.41	24.31	24.33	24.34	24.08
	64QAM	1	0	23.66	23.68	23.51	23.71	23.67	23.51	22.92	23.01	23.07	23.00	22.96	22.75
		1	1	23.41	23.81	23.49	23.70	23.69	23.59	22.98	23.07	23.03	22.98	23.00	22.76
		1	77	23.64	23.56	23.38	23.78	23.64	23.62	23.13	23.06	22.89	23.09	22.89	22.73
		1	78	23.61	23.51	23.47	23.62	23.65	23.58	23.13	23.12	22.95	22.99	22.89	22.74
		36	18	23.43	23.41	23.22	23.50	23.42	23.26	22.94	22.99	22.86	22.79	22.78	22.58
		75	0	23.47	23.41	23.25	23.46	23.48	23.31	22.89	22.90	22.78	22.84	22.79	22.61
		75	0	21.54	21.45	21.25	21.42	21.31	21.20	21.04	20.78	20.81	20.87	20.86	20.55
	256QAM	1	1	21.49	21.46	21.20	21.45	21.28	21.28	21.01	20.92	20.88	20.84	20.78	20.54
		1	77	21.45	21.37	21.30	21.54	21.39	21.22	21.01	20.89	20.80	20.83	20.71	20.58
		1	78	21.44	21.42	21.24	21.49	21.35	21.26	20.94	20.81	20.83	20.85	20.77	20.57
		36	18	21.38	21.42	21.16	21.39	21.30	21.15	20.96	20.87	20.75	20.91	20.76	20.55
		75	0	21.39	21.40	21.24	21.44	21.37	21.31	20.97	20.83	20.80	20.87	20.74	20.54
		75	0	21.39	21.40	21.24	21.44	21.37	21.31	20.97	20.83	20.80	20.87	20.74	20.54

OUTPUT POWER FOR 5G NR n66 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				344000	349000	354000	344000	349000	354000	344000	349000	354000	344000	349000	354000
20.0	BPSK	1	0	25.50	25.45	25.22	25.52	25.28	25.37	25.09	24.96	24.83	24.93	25.00	24.74
		1	1	25.67	25.64	25.45	25.70	25.49	25.50	25.50	25.35	25.27	25.20	25.18	25.02
		1	104	25.59	25.55	25.39	25.62	25.52	25.51	25.38	25.34	25.32	25.19	25.07	24.92
		1	105	25.47	25.39	25.22	25.43	25.35	25.21	24.98	24.97	24.89	25.00	24.88	24.72
		50	25	25.54	25.50	25.39	25.64	25.53	25.58	25.41	25.32	25.27	25.12	25.05	24.83
		100	0	25.35	25.33	25.23	25.52	25.34	25.38	25.05	24.81	24.90	24.94	24.85	24.66
		100	0	24.08	24.97	24.73	25.07	24.87	24.86	24.39	24.49	24.37	24.41	24.42	24.23
	QPSK	1	1	25.22	25.70	25.44	25.67	25.54	25.53	25.16	25.38	25.26	25.10	25.13	24.96
		1	104	25.68	25.55	25.48	25.61	25.59	25.50	25.39	25.37	25.46	25.18	25.13	24.89
		1	105	24.93	24.89	24.74	24.95	24.96	24.84	24.51	24.52	24.46	24.48	24.47	24.18
		50	25	25.50	25.55	25.40	25.69	25.54	25.58	25.37	25.39	25.28	25.07	25.05	24.84
		100	0	24.88	24.81	24.69	25.02	24.83	24.89	24.42	24.42	24.43	24.42	24.37	24.15
		1	0	23.96	24.14	24.04	24.29	24.06	24.06	23.49	23.79	23.66	23.58	23.64	23.41
		1	1	25.02	25.11	25.00	25.22	25.15	25.04	24.50	24.62	24.65	24.59	24.62	24.48
	16QAM	1	104	25.13	25.05	24.98	25.28	25.13	25.15	24.66	24.53	24.72	24.65	24.46	24.39
		1	105	24.08	23.91	23.95	24.16	24.17	24.13	23.75	23.59	23.72	23.72	23.58	23.38
		50	25	24.77	24.83	24.69	24.96	25.00	24.95	24.52	24.46	24.46	24.48	24.33	24.10
		100	0	23.94	23.84	23.74	23.97	23.98	23.91	23.45	23.41	23.41	23.42	23.32	23.08
		100	0	23.47	23.61	23.52	23.85	23.70	23.69	23.16	23.20	22.95	23.01	23.08	22.76
	64QAM	1	1	23.33	23.60	23.40	23.75	23.62	23.50	23.32	23.15	23.07	23.22	22.99	22.88
		1	104	23.45	23.67	23.46	23.76	23.56	23.67	23.23	23.06	23.17	23.00	22.83	22.65
		1	105	23.56	23.69	23.47	23.54	23.61	23.60	23.24	23.11	23.11	22.99	22.94	22.82
		50	25	23.33	23.34	23.14	23.43	23.40	23.28	22.96	22.94	22.84	22.89	22.84	22.57
		100	0	23.48	23.36	23.22	23.45	23.41	23.30	22.94	22.96	22.87	22.90	22.83	22.57
	256QAM	1	0	21.52	21.37	21.22	21.49	21.35	21.33	20.99	20.86	20.69	20.98	20.81	20.52
		1	1	21.46	21.23	21.24	21.51	21.22	21.27	21.02	20.89	20.68	20.98	20.94	20.60
		1	104	21.37	21.26	21.15	21.32	21.41	21.26	21.06	20.80	20.81	20.86	20.80	20.62
		1	105	21.23	21.11	21.07	21.38	21.40	21.25	20.88	20.85	20.83	20.70	20.78	20.46
		50	25	21.36	21.26	21.06	21.32	21.34	21.30	20.94	20.92	20.85	20.85	20.80	20.64
		100	0	21.43	21.29	21.23	21.38	21.37	21.28	20.99	20.89	20.82	20.82	20.77	20.52

8.13. 5G NR n70

Test Engineer ID:	50822	Test Date:	2/11/2022
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OUTPUT POWER FOR 5G NR n70 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				339500	340500	341500	339500	340500	341500	339500	340500	341500	339500	340500	341500
5.0	BPSK	1	0	25.49	25.38	25.36	25.19	25.28	25.37	24.95	25.20	25.22	24.38	24.35	24.49
		1	1	25.61	25.59	25.59	25.50	25.47	25.57	25.04	25.39	25.41	24.68	24.55	24.66
		1	23	25.55	25.59	25.56	25.56	25.44	25.47	25.41	25.41	25.40	24.57	24.55	24.65
		1	24	25.36	25.33	25.31	25.33	25.24	25.27	25.19	25.21	25.18	24.38	24.46	24.47
		12	6	25.57	25.55	25.56	25.50	25.46	25.48	25.42	25.38	25.42	24.50	24.53	24.68
		25	0	25.37	25.31	25.30	25.29	25.22	25.22	25.13	25.10	25.13	24.30	24.26	24.37
	QPSK	1	0	24.74	24.57	24.61	24.94	24.80	24.83	24.73	24.70	24.73	23.91	23.88	24.01
		1	1	25.70	25.51	25.61	25.70	25.49	25.51	25.50	25.47	25.48	24.66	24.57	24.70
		1	23	25.60	25.55	25.66	25.66	25.48	25.48	25.47	25.42	25.41	24.62	24.60	24.69
		1	24	24.78	24.55	24.76	24.90	24.84	24.87	24.77	24.76	24.72	23.93	23.98	24.03
		12	6	25.57	25.30	25.53	25.54	25.59	25.56	25.43	25.41	25.41	24.58	24.55	24.70
		25	0	24.48	24.28	24.47	24.82	24.82	24.83	24.74	24.70	24.72	23.89	23.82	23.97
	16QAM	1	0	23.87	23.70	23.81	23.87	24.08	24.09	24.01	23.99	23.92	22.84	23.07	23.25
		1	1	24.93	24.59	24.80	24.88	25.11	25.11	25.01	24.94	24.93	23.77	24.09	24.23
		1	23	24.81	24.65	24.82	24.86	25.11	25.16	24.98	24.95	25.01	23.83	24.07	24.18
		1	24	23.87	23.62	23.78	23.76	24.11	24.02	23.95	23.87	23.94	22.86	23.25	23.19
		12	6	24.79	24.57	24.72	24.93	24.92	24.79	24.74	24.74	24.77	23.86	23.77	23.92
		25	0	23.66	23.45	23.65	23.90	23.77	23.80	23.74	23.67	23.74	22.81	22.90	23.01
	64QAM	1	0	23.48	23.16	23.36	23.87	23.64	23.55	23.37	23.44	23.38	22.57	22.51	22.59
		1	1	23.44	23.26	23.46	23.87	23.60	23.68	23.42	23.40	23.43	22.63	22.43	22.64
		1	23	23.44	23.24	23.42	23.72	23.45	23.44	23.31	23.42	23.34	22.58	22.47	22.62
		1	24	23.38	23.20	23.47	23.73	23.49	23.58	23.32	23.27	23.35	22.62	22.58	22.62
		12	6	23.32	23.07	23.22	23.37	23.29	23.35	23.22	23.16	23.23	22.46	22.41	22.48
		25	0	23.23	23.06	23.15	23.35	23.30	23.42	23.19	23.25	23.21	22.30	22.39	22.40
	256QAM	1	0	21.36	21.45	21.31	21.34	21.30	21.33	21.21	21.12	21.16	20.30	20.33	20.49
		1	1	21.37	21.37	21.40	21.32	21.27	21.42	21.22	21.20	21.22	20.28	20.30	20.49
		1	23	21.45	21.34	21.26	21.31	21.19	21.36	21.15	21.15	21.17	20.35	20.42	20.38
		1	24	21.35	21.27	21.28	21.30	21.38	21.32	21.16	21.16	21.07	20.36	20.42	20.39
		12	6	21.39	21.33	21.40	21.38	21.20	21.35	21.11	21.22	21.18	20.30	20.37	20.42
		25	0	21.43	21.37	21.36	21.34	21.27	21.39	21.17	21.21	21.20	20.36	20.32	20.43

OUTPUT POWER FOR 5G NR n70 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				340000	340500	341000	340000	340500	341000	340000	340500	341000	340000	340500	341000
10.0	BPSK	1	0	25.45	25.50	25.54	25.42	25.34	25.38	25.24	25.18	24.90	24.39	24.36	24.36
		1	1	25.69	25.69	25.68	25.63	25.64	25.59	25.42	25.38	25.15	24.64	24.54	24.54
		1	50	25.63	25.64	25.60	25.61	25.56	25.58	25.41	25.33	25.03	24.57	24.66	24.67
		1	51	25.44	25.39	25.45	25.38	25.35	25.36	25.15	25.13	24.85	24.39	24.47	24.48
		25	12	25.68	25.68	25.64	25.62	25.63	25.59	25.39	25.34	25.08	24.59	24.58	24.60
		50	0	25.50	25.48	25.46	25.48	25.43	25.45	25.23	25.16	24.89	24.40	24.34	24.39
	QPSK	1	0	24.67	24.61	24.71	24.95	24.96	24.97	24.81	24.80	24.77	23.94	23.89	23.92
		1	1	25.67	25.60	25.63	25.66	25.63	25.63	25.50	25.45	25.46	24.60	24.57	24.63
		1	50	25.66	25.63	25.70	25.62	25.58	25.57	25.42	25.36	25.46	24.60	24.68	24.70
		1	51	24.81	24.64	24.71	24.97	24.89	24.89	24.68	24.66	24.74	23.92	23.97	24.01
		25	12	25.44	25.42	25.49	25.66	25.70	25.66	25.48	25.42	25.43	24.67	24.61	24.60
		50	0	24.47	24.42	24.36	24.98	24.99	24.94	24.72	24.73	24.76	23.95	23.88	23.95
	16QAM	1	0	23.85	23.68	23.73	24.25	24.17	24.17	23.96	23.96	24.02	23.15	23.14	23.12
		1	1	24.88	24.79	24.74	25.23	25.19	25.18	25.01	25.02	24.97	24.17	24.07	24.19
		1	50	24.96	24.83	24.77	25.24	25.14	25.21	24.88	24.88	24.89	24.13	24.17	24.22
		1	51	24.14	23.76	23.68	24.10	24.08	24.03	23.94	23.64	23.87	23.09	23.13	23.23
		25	12	24.69	24.65	24.62	24.91	24.96	24.96	24.77	24.42	24.72	23.93	23.91	23.86
		50	0	23.69	23.63	23.51	23.96	23.95	23.98	23.81	23.49	23.70	22.98	22.94	22.98
	64QAM	1	0	23.47	23.43	23.34	23.72	23.71	23.65	23.34	23.08	23.27	22.47	22.44	22.44
		1	1	23.47	23.44	23.50	23.88	23.76	23.66	23.36	23.08	23.30	22.62	22.58	22.56
		1	50	23.53	23.48	23.56	23.58	23.58	23.57	23.33	23.03	23.22	22.45	22.62	22.52
		1	51	23.53	23.53	23.40	23.56	23.51	23.64	23.35	23.02	23.37	22.40	22.55	22.59
		25	12	23.32	23.21	23.22	23.45	23.42	23.36	23.26	22.96	23.21	22.38	22.37	22.34
		50	0	23.24	23.10	23.12	23.39	23.41	23.39	23.20	22.96	23.16	22.31	22.38	22.39
	256QAM	1	0	21.54	21.48	21.56	21.44	21.47	21.32	21.00	20.93	21.19	20.38	20.35	20.35
		1	1	21.47	21.40	21.46	21.37	21.35	21.35	21.07	20.86	21.15	20.29	20.35	20.35
		1	50	21.43	21.35	21.41	21.38	21.40	21.42	21.08	20.89	21.06	20.40	20.38	20.41
		1	51	21.25	21.46	21.38	21.32	21.40	21.47	21.10	20.87	21.05	20.21	20.37	20.39
		25	12	21.55	21.49	21.49	21.41	21.43	21.30	21.16	21.01	21.19	20.42	20.46	20.48
		50	0	21.54	21.49	21.40	21.38	21.38	21.36	21.11	20.93	21.17	20.31	20.30	20.40

OUTPUT POWER FOR 5G NR n70 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				N/A	340500	N/A	N/A	340500	N/A	N/A	340500	N/A	N/A	340500	N/A
15.0	BPSK	1	0		25.56			25.40			25.22		24.44		
		1	1		25.68			25.70			25.36		24.60		
		1	77		25.68			25.60			25.31		24.61		
		1	78		25.41			25.35			25.16		24.54		
		36	18		25.62			25.56			25.27		24.52		
		75	0		25.46			25.39			25.11		24.36		
		1	0		24.64			24.99			24.77		23.99		
	QPSK	1	1		25.60			25.65			25.50		24.63		
		1	77		25.70			25.63			25.39		24.70		
		1	78		24.77			24.97			24.72		24.07		
		36	18		25.31			25.50			25.37		24.54		
		75	0		24.38			24.99			24.67		23.92		
		1	0		23.86			24.18			23.91		23.14		
		1	1		24.67			25.18			24.98		24.17		
	16QAM	1	77		24.89			25.17			24.94		24.24		
		1	78		23.76			24.15			23.92		23.13		
		36	18		24.46			24.93			24.67		23.97		
		75	0		23.58			23.98			23.70		22.87		
		1	0		23.23			23.80			23.37		22.56		
		1	1		23.41			23.88			23.38		22.61		
		1	77		23.39			23.76			23.33		22.65		
	64QAM	1	78		23.60			23.60			23.38		22.71		
		36	18		23.16			23.46			23.20		22.47		
		75	0		23.10			23.48			23.20		22.42		
		1	0		21.61			21.47			21.14		20.40		
		1	1		21.49			21.47			21.27		20.47		
		1	77		21.33			21.38			21.03		20.38		
		1	78		21.30			21.31			21.08		20.38		
	256QAM	36	18		21.36			21.35			21.09		20.42		
		75	0		21.51			21.38			21.16		20.35		

8.14. LTE BAND 71 AND 5G NR n71

LTE BAND 71

Test Engineer ID:	25602	Test Date:	2/3/2022
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OUTPUT POWER FOR LTE BAND 71 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				133147	133297	133447	133147	133297	133447
5.0	QPSK	1	0	25.59	25.51	25.52	24.59	24.51	24.55
		1	12	25.70	25.68	25.65	24.70	24.70	24.66
		1	24	25.59	25.52	25.47	24.60	24.52	24.51
		12	0	24.85	24.82	24.88	23.53	23.52	23.59
		12	6	24.96	24.93	24.91	23.64	23.64	23.62
		12	11	24.91	24.89	24.87	23.60	23.59	23.57
		25	0	24.90	24.88	24.87	23.60	23.59	23.60
	16QAM	1	0	25.27	25.19	25.19	23.96	23.93	23.92
		1	12	25.41	25.35	25.28	24.09	24.13	24.08
		1	24	25.26	25.23	25.16	23.98	23.90	23.88
		12	0	24.00	23.90	23.91	22.73	22.60	22.60
		12	6	24.11	23.99	23.96	22.84	22.71	22.62
		12	11	24.06	23.96	23.90	22.80	22.67	22.57
		25	0	23.90	23.90	23.91	22.66	22.62	22.60
	64QAM	1	0	24.21	24.04	24.15	22.87	22.75	22.81
		1	12	24.18	24.15	24.21	22.91	22.93	22.91
		1	24	24.14	24.02	24.15	22.85	22.75	22.77
		12	0	22.88	22.87	22.89	21.59	21.61	21.58
		12	6	22.99	22.98	22.93	21.70	21.72	21.60
		12	11	22.95	22.92	22.87	21.66	21.69	21.56
		25	0	22.93	22.87	22.87	21.63	21.61	21.55
	256QAM	1	0	20.97	20.91	20.94	19.71	19.65	19.58
		1	12	21.14	21.04	21.01	19.88	19.83	19.75
		1	24	21.03	20.94	20.86	19.68	19.70	19.59
		12	0	20.82	20.80	20.85	19.53	19.52	19.56
12		6	20.90	20.90	20.90	19.65	19.63	19.58	
12		11	20.88	20.87	20.84	19.61	19.59	19.54	
25		0	20.88	20.86	20.84	19.61	19.59	19.54	

OUTPUT POWER FOR LTE BAND 71 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				133172	133322	133422	133172	133322	133422
10.0	QPSK	1	0	25.67	25.66	25.70	24.67	24.69	24.69
		1	24	25.67	25.67	25.69	24.65	24.69	24.70
		1	49	25.64	25.62	25.60	24.60	24.66	24.62
		25	0	24.93	24.91	24.92	23.60	23.61	23.61
		25	12	25.01	25.00	24.92	23.69	23.61	23.62
		25	24	24.97	24.97	24.96	23.64	23.67	23.67
		50	0	24.98	24.97	24.90	23.66	23.61	23.62
	16QAM	1	0	25.34	25.35	25.34	23.97	24.00	24.00
		1	24	25.24	25.22	25.33	23.92	23.95	23.99
		1	49	25.26	25.25	25.25	23.96	24.01	23.96
		25	0	23.94	23.96	23.92	22.61	22.63	22.66
		25	12	24.02	24.02	23.92	22.69	22.61	22.66
		25	24	23.98	23.96	23.95	22.64	22.67	22.70
		50	0	23.99	23.98	23.92	22.67	22.62	22.63
	64QAM	1	0	24.21	24.31	24.25	22.97	22.95	22.88
		1	24	24.20	24.26	24.25	22.91	22.90	22.93
		1	49	24.15	24.24	24.20	22.92	22.90	22.90
		25	0	22.93	22.92	22.91	21.61	21.60	21.62
		25	12	23.00	23.02	22.91	21.69	21.60	21.64
		25	24	22.97	22.96	22.95	21.67	21.66	21.66
		50	0	22.99	22.98	22.89	21.68	21.59	21.61
	256QAM	1	0	20.95	20.95	20.99	19.75	19.67	19.74
		1	24	21.11	21.15	21.13	19.87	19.82	19.82
		1	49	20.94	21.01	20.98	19.76	19.68	19.70
		25	0	20.90	20.87	20.87	19.61	19.60	19.61
25		12	20.97	20.97	20.86	19.68	19.61	19.61	
25		24	20.94	20.92	20.89	19.63	19.66	19.66	
50		0	20.95	20.94	20.86	19.65	19.57	-1.35	

OUTPUT POWER FOR LTE BAND 71 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				133197	133297	133397	133197	133297	133397
15.0	QPSK	1	0	25.60	25.61	25.53	24.56	24.60	24.63
		1	37	25.62	25.66	25.70	24.62	24.64	24.70
		1	74	25.61	25.58	25.54	24.59	24.59	24.55
		36	0	24.89	24.90	24.91	23.57	23.60	23.60
		36	16	24.95	24.97	24.90	23.65	23.66	23.59
		36	35	24.91	24.92	24.94	23.62	23.64	23.65
		75	0	24.95	24.94	24.87	23.66	23.64	23.61
		1	0	25.13	25.11	25.25	23.88	23.93	23.91
		1	37	25.24	25.33	25.30	23.94	24.00	24.09
	1	74	25.16	25.23	25.16	23.92	23.90	23.82	
	36	0	23.91	23.93	23.95	22.62	22.64	22.63	
	36	16	23.96	23.99	23.93	22.66	22.68	22.63	
	36	35	23.91	23.94	23.94	22.60	22.65	22.67	
	75	0	23.97	23.94	23.91	22.67	22.65	22.61	
	1	0	24.10	24.22	24.17	22.89	22.79	22.85	
	1	37	24.18	24.29	24.23	22.95	22.89	22.83	
	1	74	24.24	24.24	24.11	22.93	22.82	22.78	
	36	0	22.90	22.89	22.92	21.60	21.60	21.63	
	36	16	22.99	22.94	22.91	21.66	21.68	21.61	
	36	35	22.95	22.88	22.95	21.62	21.65	21.66	
	75	0	22.97	22.93	22.91	21.68	21.66	21.61	
	1	0	20.96	20.87	20.94	19.59	19.69	19.74	
	1	37	21.11	20.97	21.08	19.72	19.83	19.82	
	1	74	21.14	20.99	21.07	19.75	19.86	19.80	
	36	0	20.88	20.86	20.90	19.61	19.60	19.60	
	36	16	20.94	20.91	20.88	19.66	19.66	19.58	
	36	35	20.92	20.88	20.91	19.64	19.64	19.64	
	75	0	20.93	20.90	20.86	19.70	19.67	19.59	

OUTPUT POWER FOR LTE BAND 71 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				133222	133322	133372	133222	133322	133372
20.0	QPSK	1	0	25.70	25.61	25.62	24.66	24.65	24.65
		1	49	25.69	25.64	25.60	24.64	24.70	24.66
		1	99	25.65	25.62	25.63	24.66	24.69	24.61
		50	0	24.98	24.92	24.91	23.63	23.68	23.67
		50	24	25.01	24.99	24.90	23.69	23.68	23.74
		50	49	24.96	24.94	24.94	23.63	23.70	23.69
		100	0	25.01	24.99	24.91	23.71	23.66	23.68
		1	0	25.25	25.15	25.18	23.95	23.96	23.98
		1	49	25.43	25.31	25.35	24.13	24.05	24.09
	1	99	25.24	25.18	25.10	24.02	24.01	23.86	
	50	0	23.98	23.91	23.93	22.68	22.70	22.69	
	50	24	24.03	23.98	23.90	22.72	22.68	22.75	
	50	49	23.95	23.93	23.95	22.69	22.72	22.70	
	100	0	24.02	23.98	23.91	22.76	22.70	22.69	
	1	0	24.30	24.23	24.16	23.02	23.07	23.01	
	1	49	24.37	24.44	24.23	23.20	23.17	23.16	
	1	99	24.29	24.32	24.04	22.99	23.06	22.98	
	50	0	22.94	22.89	22.89	21.68	21.69	21.67	
	50	24	22.99	22.97	22.87	21.73	21.69	21.73	
	50	49	22.92	22.90	22.92	21.69	21.69	21.70	
	100	0	23.00	22.96	22.87	21.75	21.67	21.67	
	1	0	20.97	20.96	20.96	19.70	19.77	19.73	
	1	49	21.04	21.12	21.11	19.90	19.96	19.93	
	1	99	21.17	21.16	21.07	19.88	20.00	19.84	
	50	0	20.91	20.85	20.85	19.67	19.68	19.65	
	50	24	20.96	20.93	20.85	19.72	19.66	19.72	
	50	49	20.90	20.91	20.92	19.72	19.73	19.67	
	100	0	20.97	20.94	20.85	19.75	19.67	19.63	

5G NR n71

Test Engineer ID:	25602	Test Date:	3/30/2022
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OUTPUT POWER FOR 5G NR n71 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				133100	136100	139100	133100	136100	139100
5.0	BPSK	1	0	25.55	25.29	25.23	24.13	23.93	23.94
		1	1	25.69	25.50	25.42	24.70	24.43	24.42
		1	23	25.64	25.52	25.39	24.64	24.43	24.35
		1	24	25.41	25.28	25.15	24.07	23.91	23.86
		12	6	25.65	25.63	25.48	24.64	24.45	24.46
		25	0	25.35	25.33	25.19	24.04	23.84	23.85
	QPSK	1	0	24.57	24.85	24.78	23.69	23.44	23.43
		1	1	25.58	25.49	25.49	24.69	24.49	24.47
		1	23	25.70	25.59	24.87	24.69	24.54	24.37
		1	24	25.00	24.86	23.83	23.64	23.51	23.39
		12	6	25.70	25.63	25.49	24.63	24.47	24.47
		25	0	24.71	24.92	24.78	23.62	23.42	23.45
	16QAM	1	0	23.74	24.06	24.12	22.91	22.67	22.67
		1	1	24.85	25.11	25.03	23.94	23.68	23.62
		1	23	25.24	25.12	24.63	23.90	23.75	23.62
		1	24	24.27	24.09	23.71	22.82	22.73	22.58
		12	6	24.95	24.99	24.76	23.73	23.49	23.53
		25	0	23.81	23.85	23.71	22.59	22.36	22.41
	64QAM	1	0	23.19	23.48	23.34	22.30	22.00	22.06
		1	1	23.30	23.47	23.32	22.34	22.13	22.02
		1	23	23.65	23.46	23.16	22.31	22.16	22.03
		1	24	23.58	23.45	23.05	22.26	22.14	22.02
		12	6	23.46	23.37	23.20	22.17	21.92	21.93
		25	0	23.38	23.35	23.19	22.08	21.98	21.94
	256QAM	1	0	21.45	21.31	21.20	20.12	19.83	19.87
		1	1	21.51	21.24	21.20	20.08	19.93	19.92
		1	23	21.39	21.27	21.14	20.02	19.90	19.81
		1	24	21.34	21.31	21.14	19.97	19.88	19.82
		12	6	21.55	21.33	21.22	20.12	19.94	19.89
		25	0	21.47	21.33	21.22	20.05	20.04	19.92

OUTPUT POWER FOR 5G NR n71 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				133600	136600	138600	133600	136600	138600
10.0	BPSK	1	0	25.45	25.35	25.34	23.91	24.01	24.06
		1	1	25.70	25.57	25.53	24.57	24.50	24.52
		1	50	25.54	25.55	25.39	24.50	24.49	24.48
		1	51	25.34	25.29	25.20	23.96	23.95	23.92
		25	12	25.52	25.54	25.38	24.51	24.36	24.48
		50	0	25.40	25.32	25.26	24.00	23.87	23.98
	QPSK	1	0	24.30	24.90	24.82	23.72	23.59	23.64
		1	1	25.38	25.60	25.58	24.70	24.55	24.65
		1	50	25.58	25.51	25.11	24.53	24.50	24.46
		1	51	24.88	24.84	24.12	23.51	23.49	23.46
		25	12	25.57	25.60	25.44	24.56	24.43	24.50
		50	0	24.74	24.83	24.75	23.58	23.43	23.50
	16QAM	1	0	23.53	24.12	24.06	22.97	22.76	22.82
		1	1	24.53	25.11	25.14	23.86	23.82	23.81
		1	50	25.04	25.00	24.52	23.78	23.71	23.72
		1	51	24.09	23.92	23.76	22.75	22.66	22.71
		25	12	24.76	24.78	24.64	23.59	23.40	23.52
		50	0	23.83	23.85	23.71	22.51	22.45	22.55
	64QAM	1	0	23.09	23.59	23.54	22.22	22.22	22.34
		1	1	23.07	23.34	23.54	22.24	22.14	22.25
		1	50	23.47	23.49	23.12	22.16	22.12	22.18
		1	51	23.40	23.15	23.13	22.03	22.06	22.24
		25	12	23.29	23.33	23.22	22.06	21.91	22.09
		50	0	23.30	23.27	23.22	22.04	21.94	22.01
	256QAM	1	0	21.22	21.42	21.24	20.05	19.91	20.02
		1	1	21.25	21.18	21.32	20.08	19.89	20.02
		1	50	21.35	21.27	21.02	19.95	19.85	19.82
		1	51	21.16	21.27	21.14	19.94	19.91	19.89
		25	12	21.43	21.36	21.17	20.14	20.04	20.04
		50	0	21.44	21.39	21.24	19.97	19.99	19.99

OUTPUT POWER FOR 5G NR n71 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				134100	136100	138100	134100	136100	138100
15.0	BPSK	1	0	25.50	25.32	25.29	24.19	23.95	23.90
		1	1	25.70	25.55	25.48	24.64	24.49	24.45
		1	77	25.60	25.56	25.34	24.40	24.29	24.21
		1	78	25.35	25.24	25.13	23.93	23.83	23.69
		36	18	25.58	25.46	25.44	24.53	24.31	24.31
		75	0	25.38	25.29	25.15	24.07	23.84	23.83
		75	0	23.87	24.88	24.86	23.77	23.54	23.49
	QPSK	1	1	24.98	25.60	25.53	24.70	24.55	24.49
		1	77	25.65	25.54	25.10	24.48	24.39	24.28
		1	78	24.86	24.84	24.10	23.42	23.36	23.21
		36	18	25.60	25.51	25.43	24.53	24.39	24.35
		75	0	24.90	24.79	24.64	23.55	23.37	23.32
		1	0	23.79	24.03	24.03	22.87	22.80	22.62
		1	1	24.94	25.20	25.12	23.82	23.81	23.65
	16QAM	1	77	25.13	25.00	24.52	23.70	23.52	23.43
		1	78	24.26	23.95	23.30	22.57	22.52	22.44
		36	18	24.92	24.86	24.74	23.52	23.30	23.34
		75	0	23.92	23.82	23.78	22.56	22.36	22.35
		1	0	23.11	23.44	23.53	22.27	22.06	22.14
		1	1	23.29	23.50	23.45	22.27	22.12	22.09
		1	77	23.68	23.37	23.04	22.04	22.04	21.97
	64QAM	1	78	23.49	23.51	23.03	22.06	21.92	22.04
		36	18	23.38	23.35	23.34	22.12	21.92	21.89
		75	0	23.37	23.28	23.17	22.06	21.86	21.86
		1	0	21.24	21.40	21.23	20.07	19.97	19.89
		1	1	21.31	21.35	21.30	20.14	19.95	19.90
		1	77	21.30	21.28	21.03	19.81	19.70	19.68
		1	78	21.28	21.26	21.16	19.69	19.76	19.69
	256QAM	36	18	21.43	21.38	21.31	19.94	19.80	19.74
		75	0	21.34	21.29	21.20	19.99	19.83	19.79

OUTPUT POWER FOR 5G NR n71 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)					
				ANT 1			ANT 2		
				134600	136600	137600	134600	136600	137600
20.0	BPSK	1	0	25.49	25.39	25.35	24.25	24.07	23.91
		1	1	25.70	25.59	25.55	24.56	24.56	24.43
		1	104	25.52	25.40	25.30	24.43	24.32	24.24
		1	105	25.27	25.22	25.11	23.87	23.88	23.72
		50	25	25.56	25.57	25.41	24.53	24.33	24.37
		100	0	25.35	25.30	25.25	24.07	23.90	23.89
		100	0	24.43	24.86	24.91	23.62	23.60	23.51
	QPSK	1	1	25.53	25.61	25.62	24.70	24.57	24.53
		1	104	25.50	25.50	25.08	24.47	24.37	24.29
		1	105	24.84	24.80	24.10	23.47	23.38	23.37
		50	25	25.57	25.56	25.43	24.52	24.41	24.38
		100	0	24.86	24.84	24.74	23.55	23.41	23.43
		1	0	24.06	24.05	24.03	22.86	22.81	22.70
		1	1	24.86	25.17	25.17	23.92	23.79	23.76
	16QAM	1	104	25.08	24.95	24.44	23.70	23.53	23.41
		1	105	23.99	23.92	23.38	22.71	22.55	22.46
		50	25	24.92	24.78	24.70	23.51	23.37	23.43
		100	0	23.85	23.84	23.77	22.52	22.35	22.42
		1	0	23.16	23.50	23.48	22.39	22.22	22.18
		1	1	23.38	23.67	23.49	22.32	22.31	22.15
		1	104	23.39	23.22	23.05	22.08	21.97	21.96
	64QAM	1	105	23.35	23.37	23.11	22.00	21.97	21.86
		50	25	23.30	23.30	23.17	22.07	21.90	21.87
		100	0	23.34	23.28	23.18	22.03	21.87	21.86
		1	0	21.16	21.20	21.34	20.08	20.00	19.86
		1	1	21.30	21.28	21.36	20.15	19.95	19.86
		1	104	21.33	21.32	20.90	19.96	19.73	19.93
		1	105	21.42	21.27	20.90	19.94	19.80	19.79
	256QAM	50	25	21.37	21.35	21.24	19.97	19.81	19.84
		100	0	21.37	21.32	21.18	19.97	19.87	19.88

8.15. 5G NR n77 (FCC Part 27 3450-3550MHz)

Test Engineer ID:	25780	Test Date:	4/3/2022
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OUTPUT POWER FOR 5G NR n77 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				630333 3455.0	633332 3500.0	636333 3545.0	630333 3455.0	633332 3500.0	636333 3545.0	630333 3455.0	633332 3500.0	636333 3545.0	630333 3455.0	633332 3500.0	636333 3545.0
10.0	BPSK	1	0	25.47	25.36	25.50	25.79	25.73	25.77	25.38	25.36	25.06	25.21	25.11	25.15
		1	1	28.67	28.58	28.69	25.90	25.92	25.93	28.68	28.59	28.37	25.26	25.30	25.35
		1	49	28.63	28.66	28.64	25.91	25.95	25.88	28.68	28.63	28.45	25.48	25.38	25.50
		1	50	25.41	25.32	25.45	25.73	25.71	25.71	25.43	25.32	25.17	25.13	25.17	25.24
		25	12	28.63	28.63	28.59	25.86	25.89	25.85	28.48	28.60	28.42	25.21	25.36	25.43
		50	0	28.40	28.44	28.39	25.82	25.72	25.66	28.39	28.45	28.23	25.08	25.18	25.23
	QPSK	1	0	25.36	25.40	25.44	25.22	25.27	25.22	25.43	25.37	25.22	24.56	24.64	24.79
		1	1	28.67	28.66	28.58	26.00	25.95	25.88	28.70	28.57	28.38	25.27	25.45	25.45
		1	49	28.64	28.70	28.69	25.88	25.91	25.87	28.56	28.65	28.25	25.27	25.38	25.48
		1	50	25.47	25.40	25.28	25.22	25.13	25.10	25.41	25.30	25.25	24.61	24.69	24.76
		25	12	28.62	28.63	28.60	25.94	25.94	25.81	28.27	28.37	28.05	25.21	25.27	25.50
		50	0	27.91	27.93	27.80	25.24	25.19	25.14	27.74	27.52	27.23	24.52	24.51	24.77
	16QAM	1	0	25.20	25.52	25.50	24.19	24.30	24.26	25.39	25.54	25.40	23.76	23.80	23.98
		1	1	27.74	28.13	27.96	25.06	25.49	25.31	27.94	27.88	27.59	24.79	24.57	24.86
		1	49	27.87	28.17	28.07	25.11	25.44	25.36	27.53	27.74	27.52	24.87	24.83	24.85
		1	50	25.32	25.66	25.54	24.01	24.31	24.27	25.33	25.49	25.39	23.72	23.70	23.99
		25	12	27.92	27.87	27.71	25.26	25.31	24.95	27.68	27.41	27.22	24.62	24.51	24.73
		50	0	26.86	27.00	26.80	24.21	24.26	24.15	26.83	26.65	26.27	23.61	23.63	23.65
	64QAM	1	0	25.50	25.49	25.52	23.92	23.93	23.78	25.57	25.64	25.37	23.23	23.26	23.59
		1	1	26.67	26.45	26.59	24.01	23.92	23.73	26.69	26.45	26.16	23.18	23.30	23.38
		1	49	26.61	26.51	26.61	23.76	23.85	23.72	26.54	26.33	26.07	23.14	23.19	23.43
		1	50	25.57	25.50	25.60	23.90	23.92	23.76	25.61	25.52	25.49	23.19	23.22	23.24
		25	12	26.45	26.28	26.35	23.77	23.65	23.63	26.27	26.06	25.83	23.08	22.99	23.29
		50	0	26.42	26.40	26.48	23.69	23.69	23.58	26.30	26.13	25.81	23.14	23.03	23.24
	256QAM	1	0	24.47	24.31	24.24	21.77	21.83	21.57	24.41	24.31	24.30	21.13	20.95	21.27
		1	1	24.51	24.27	24.36	21.69	21.61	21.44	24.58	24.33	24.25	21.06	21.02	21.15
		1	49	24.47	24.26	24.30	21.64	21.59	21.58	24.39	24.26	24.30	21.08	21.11	21.11
		1	50	24.45	24.25	24.35	21.66	21.72	21.48	24.24	24.39	24.13	21.00	21.02	21.10
		25	12	24.33	24.34	24.47	21.75	21.63	21.53	24.48	24.42	24.28	21.13	20.94	21.15
		50	0	24.35	24.34	24.40	21.62	21.69	21.58	24.41	24.28	24.18	21.09	21.06	21.08

OUTPUT POWER FOR 5G NR n77 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				630500 3457.5	633332 3500.0	636166 3542.5	630500 3457.5	633332 3500.0	636166 3542.5	630500 3457.5	633332 3500.0	636166 3542.5	630500 3457.5	633332 3500.0	636166 3542.5
15.0	BPSK	1	0	25.39	25.31	25.36	25.77	25.79	25.53	25.37	25.36	25.20	25.14	25.20	25.22
		1	1	28.68	28.65	28.64	25.94	25.78	25.89	28.52	28.62	28.42	25.46	25.39	25.38
		1	49	28.58	28.68	28.62	25.93	25.87	25.76	28.57	28.60	28.50	25.43	25.47	25.35
		1	50	25.31	25.36	25.36	25.63	25.65	25.55	25.34	25.48	25.37	25.12	25.37	25.21
		25	12	28.56	28.56	28.50	25.92	25.70	25.80	28.56	28.62	28.39	25.39	25.35	25.29
		50	0	28.37	28.30	28.36	25.70	25.51	25.56	28.38	28.31	28.24	25.13	25.17	25.03
	QPSK	1	0	25.38	25.37	25.31	25.26	25.12	25.21	25.29	25.36	25.26	24.72	24.69	24.65
		1	1	28.70	28.59	28.60	26.00	25.84	25.86	28.70	28.52	28.26	25.50	25.35	25.34
		1	49	28.61	28.65	28.63	25.92	25.81	25.82	28.46	28.50	28.17	25.50	25.48	25.31
		1	50	25.31	25.39	25.32	25.19	25.15	25.06	25.43	25.39	25.23	24.77	24.78	24.57
		25	12	28.58	28.59	28.43	25.87	25.76	25.75	28.37	28.20	27.92	25.43	25.39	25.34
		50	0	27.80	27.74	27.71	25.14	24.99	25.10	27.53	27.51	27.12	24.68	24.61	24.56
	16QAM	1	0	25.61	25.60	25.60	24.66	24.26	24.49	25.53	25.65	25.46	23.84	23.91	24.00
		1	1	28.10	28.13	28.04	25.48	25.19	25.53	27.94	28.05	27.43	24.86	24.95	24.91
		1	49	28.14	28.18	28.02	25.51	25.34	25.27	27.71	27.87	27.39	25.06	25.03	24.99
		1	50	25.59	25.69	25.61	24.53	24.45	24.43	25.57	25.59	25.36	23.84	24.13	24.00
		25	12	27.91	27.94	27.70	25.11	24.86	25.13	27.36	27.40	27.19	24.52	24.72	24.47
		50	0	26.83	26.82	26.75	24.15	24.01	24.05	26.53	26.49	26.17	23.70	23.55	23.57
	64QAM	1	0	25.49	25.52	25.48	23.83	23.76	23.83	25.52	25.48	25.16	23.31	23.37	23.34
		1	1	26.48	26.50	26.48	23.97	23.67	23.89	26.29	26.34	26.09	23.35	23.46	23.32
		1	49	26.50	26.57	26.54	23.77	23.65	23.78	26.21	26.43	26.03	23.36	23.42	23.46
		1	50	25.50	25.61	25.59	23.93	23.74	23.78	25.60	25.63	25.48	23.48	23.45	23.39
		25	12	26.25	26.37	26.30	23.68	23.53	23.56	26.05	25.88	25.71	23.18	23.37	23.26
		50	0	26.36	26.42	26.29	23.63	23.49	23.44	26.07	26.01	25.74	23.20	23.17	23.08
	256QAM	1	0	24.32	24.38	24.24	21.60	21.61	21.59	24.26	24.21	24.46	21.18	21.26	20.98
		1	1	24.34	24.28	24.29	21.80	21.66	21.54	24.23	24.29	24.25	21.10	21.29	21.03
		1	49	24.30	24.37	24.22	21.73	21.53	21.38	24.29	24.44	24.23	21.20	21.31	21.13
		1	50	24.41	24.31	24.19	21.53	21.52	21.48	24.49	24.28	24.14	21.18	21.26	20.98
		25	12	24.26	24.35	24.27	21.52	21.41	21.34	24.33	24.38	24.13	20.96	21.00	21.08
		50	0	24.31	24.30	24.27	21.54	21.43	21.49	24.28	24.29	24.10	21.13	21.03	21.03

OUTPUT POWER FOR 5G NR n77 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				630666	633332	635998	630666	633332	635998	630666	633332	635998	630666	633332	635998
20.0	BPSK	1	0	25.38	25.28	25.20	25.72	22.50	22.47	25.39	25.34	25.16	25.17	25.03	25.12
		1	1	28.70	28.53	28.46	26.00	25.84	25.90	28.54	28.65	28.55	25.44	25.26	25.24
		1	49	28.62	28.55	28.56	25.92	25.75	25.76	28.57	28.65	28.43	25.35	25.26	25.20
		1	50	25.42	25.33	25.23	25.68	22.53	22.50	25.43	25.40	25.18	25.10	25.05	24.93
		25	12	28.61	28.52	28.43	25.85	25.75	25.73	28.51	28.61	28.43	25.28	25.23	25.26
		50	0	28.40	28.33	28.29	25.65	25.49	25.55	28.37	28.41	28.21	25.18	25.04	25.10
		1	0	25.37	25.28	25.17	25.23	22.55	22.56	25.44	25.35	25.21	24.71	24.53	24.63
		1	1	28.63	28.55	28.48	25.98	25.85	25.79	28.67	28.66	28.50	25.50	25.30	25.43
		1	49	28.66	28.56	28.57	25.92	25.83	25.76	28.70	28.60	28.28	25.33	25.29	25.42
		1	50	25.38	25.30	25.24	25.15	22.67	22.52	25.32	25.42	25.26	24.63	24.53	24.64
		25	12	28.61	28.47	28.38	25.87	25.78	25.65	28.33	28.14	27.96	25.36	25.18	25.30
		50	0	27.88	27.78	27.71	25.15	25.12	24.94	27.60	27.57	27.28	24.69	24.48	24.60
	1	0	25.55	25.48	25.46	23.95	22.92	22.74	25.57	25.59	25.60	23.95	23.77	23.42	
	1	1	28.17	28.02	28.03	25.00	25.30	25.21	27.93	27.93	27.82	24.88	24.82	24.44	
	1	49	27.99	28.03	28.03	25.09	25.40	25.00	27.71	27.89	27.61	24.81	24.87	24.38	
	1	50	25.74	25.49	25.46	24.05	22.88	22.71	25.42	25.80	25.49	23.93	23.70	23.38	
	25	12	27.82	27.72	27.62	25.15	25.02	24.75	27.49	27.40	27.28	24.71	24.34	24.52	
	50	0	28.83	28.81	26.65	24.17	24.01	23.86	26.51	26.53	26.26	23.67	23.53	23.56	
	1	0	25.48	25.53	25.35	24.03	22.75	22.67	25.55	25.41	25.36	23.48	23.15	23.41	
	1	1	26.51	26.55	26.47	23.94	23.78	23.79	26.38	26.59	26.21	23.40	23.11	23.42	
	1	49	26.53	26.44	26.37	23.79	23.93	23.49	25.89	26.36	25.84	23.32	23.31	23.24	
	1	50	25.43	25.45	25.44	23.99	22.86	22.56	25.61	25.54	25.42	23.22	23.12	23.33	
	25	12	26.28	26.26	26.24	23.57	23.44	23.42	25.94	25.94	25.76	23.15	22.93	23.07	
	50	0	26.27	26.27	26.21	23.69	23.55	23.36	26.14	26.13	25.80	23.15	22.98	23.03	
	1	0	24.41	24.21	24.15	21.71	21.59	21.49	24.44	24.35	24.23	21.04	20.98	21.22	
	1	1	24.30	24.12	24.03	21.67	21.47	21.51	24.30	24.33	24.13	21.30	20.91	21.17	
	1	49	24.31	24.24	24.29	21.84	21.59	21.36	24.29	24.21	24.22	21.07	21.08	21.23	
	1	50	24.32	24.26	24.34	21.70	21.58	21.44	24.38	24.29	24.17	21.07	21.09	21.14	
	25	12	24.27	24.26	24.30	21.60	21.56	21.44	24.34	24.25	24.16	21.12	20.93	21.03	
	50	0	24.21	24.23	24.14	21.58	21.62	21.41	24.29	24.27	24.12	21.12	20.97	21.06	

OUTPUT POWER FOR 5G NR n77 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				631000	633332	635666	631000	633332	635666	631000	633332	635666	631000	633332	635666
30.0	BPSK	1	0	25.36	25.32	25.20	22.57	22.50	22.52	25.34	25.23	25.26	25.11	25.21	25.29
		1	1	28.70	28.51	28.41	25.86	25.76	25.77	28.41	28.57	28.43	25.33	25.39	25.46
		1	76	28.51	28.49	28.53	25.85	25.82	25.73	28.48	28.52	28.28	25.13	25.38	25.43
		1	77	25.22	25.26	25.26	22.51	22.54	22.42	25.25	25.22	25.10	24.96	25.19	25.08
		36	18	28.48	28.39	28.45	25.81	25.66	25.71	28.48	28.37	28.33	25.05	25.26	25.28
		75	0	28.29	28.24	28.31	25.58	25.55	25.51	28.34	28.26	28.17	24.93	25.10	25.12
		1	0	25.37	25.33	25.21	22.65	22.69	22.60	25.25	25.23	25.23	24.59	24.64	24.71
		1	1	28.68	28.59	28.62	26.00	25.95	25.95	28.70	28.56	28.34	25.37	25.45	25.50
		1	76	28.56	28.64	28.50	25.86	25.77	25.71	28.35	28.35	28.02	25.26	25.39	25.41
		1	77	25.35	25.25	25.23	22.62	22.65	22.48	25.26	25.17	25.07	24.47	24.66	24.68
		36	18	28.48	28.40	28.17	25.75	25.73	25.40	27.92	27.91	27.40	25.05	25.26	25.31
		75	0	27.80	27.70	27.37	25.06	25.01	24.68	27.20	27.14	26.97	24.35	24.64	24.62
	1	0	25.59	25.44	25.53	22.89	22.78	22.73	25.49	25.75	25.42	23.38	23.97	24.06	
	1	1	28.12	27.97	27.72	25.55	25.32	25.05	27.77	27.43	27.43	24.45	24.78	24.87	
	1	76	27.93	27.59	27.51	25.52	25.26	24.87	27.42	27.18	27.26	24.20	24.99	24.84	
	1	77	25.45	25.41	25.59	22.86	22.79	22.76	25.77	25.53	25.38	23.02	23.86	23.97	
	36	18	27.75	27.62	27.47	25.07	24.96	24.68	27.10	27.09	26.88	24.21	24.58	24.68	
	75	0	26.73	26.60	26.53	24.08	24.02	23.76	26.29	26.22	26.02	23.33	23.62	23.72	
	1	0	25.53	25.49	25.42	22.88	22.75	22.76	25.29	25.33	25.45	23.19	23.37	23.48	
	1	1	26.58	26.42	26.16	23.87	23.87	23.58	26.28	26.09	25.98	23.03	23.36	23.51	
	1	76	26.40	26.33	26.45	23.74	23.49	23.41	25.85	25.79	25.75	22.99	23.36	23.26	
	1	77	25.38	25.33	25.49	22.86	22.74	22.61	25.32	25.57	25.46	23.01	23.41	23.13	
	36	18	26.28	26.26	26.11	23.63	23.53	23.34	25.84	25.87	25.55	22.65	22.98	23.13	
	75	0	26.30	26.25	26.17	23.53	23.48	23.34	25.91	25.79	25.46	22.73	23.07	23.12	
	1	0	24.40	24.29	24.13	21.65	21.40	21.58	24.25	24.18	24.06	20.75	21.16	21.36	
	1	1	24.34	24.23	24.14	21.49	21.52	21.66	24.28	24.18	24.09	21.02	21.07	21.31	
	1	76	24.26	24.22	23.98	21.53	21.45	21.52	24.26	24.19	23.89	20.88	21.04	21.08	
	1	77	24.22	24.25	24.16	21.70	21.45	21.44	24.16	24.29	24.04	21.04	21.16	21.14	
	36	18	24.10	24.14	24.11	21.53	21.33	21.40	24.12	24.18	23.99	21.13	21.03	21.07	
	75	0	24.20	24.24	24.17	21.62	21.50	21.43	24.24	24.23	24.10	21.09	21.06	21.13	

OUTPUT POWER FOR 5G NR n77 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				631332	633332	635332	631332	633332	635332	631332	633332	635332	631332	633332	635332
40.0	BPSK	1	0	25.38	25.42	25.39	22.72	22.68	22.53	25.37	25.33	25.30	25.13	25.13	25.09
		1	1	28.56	28.64	28.69	25.99	25.96	25.77	28.64	28.70	28.60	25.41	25.28	25.33
		1	104	28.68	28.52	28.62	25.94	25.91	25.75	28.69	28.68	28.68	25.27	25.36	25.36
		1	105	25.41	25.29	25.32	22.53	22.64	22.44	25.28	25.36	25.27	25.20	25.14	25.10
		50	25	28.44	28.47	28.46	25.80	25.77	25.65	28.52	28.42	28.53	25.17	25.18	25.20
		100	0	28.33	28.29	28.27	25.61	25.55	25.55	28.41	28.26	28.31	25.02	25.04	25.02
	QPSK	1	0	25.40	25.26	25.36	22.78	22.70	22.52	25.23	25.42	25.23	24.75	24.63	24.59
		1	1	28.63	28.56	28.66	25.98	26.00	25.73	28.43	28.43	28.32	25.50	25.27	25.38
		1	104	28.67	28.70	28.39	25.93	25.96	25.62	28.02	28.00	27.96	25.46	25.40	25.37
		1	105	25.45	25.29	25.43	22.68	22.62	22.50	25.34	25.49	25.32	24.73	24.75	24.55
		50	25	28.46	28.29	28.05	25.76	25.55	25.33	27.84	27.84	27.72	25.20	25.20	25.21
		100	0	27.81	27.49	27.31	25.07	24.90	24.45	27.04	27.07	26.74	24.50	24.50	24.49
	16QAM	1	0	25.44	25.58	25.44	22.87	22.89	22.72	25.73	25.58	25.58	23.88	23.84	23.77
		1	1	28.10	27.93	27.56	25.41	25.33	24.90	27.40	27.47	27.24	24.84	24.84	24.75
		1	104	27.65	27.40	27.54	25.01	24.78	24.80	27.21	26.88	26.82	24.93	24.99	24.82
		1	105	25.59	25.69	25.55	22.86	22.84	22.79	25.56	25.52	25.43	23.73	23.80	23.86
		50	25	27.78	27.58	27.28	25.03	25.01	24.58	27.14	27.14	26.86	24.52	24.47	24.47
		100	0	26.79	26.72	26.51	24.05	24.05	23.69	26.18	26.25	26.05	23.43	23.51	23.45
	64QAM	1	0	25.52	25.48	25.58	22.88	22.77	22.85	25.64	25.70	25.63	23.21	23.16	23.30
		1	1	26.61	26.55	26.29	24.09	23.86	23.60	26.48	26.28	25.80	23.18	23.28	23.24
		1	104	26.18	26.01	26.25	23.73	23.54	23.16	25.85	25.45	25.58	23.24	23.22	23.17
		1	105	25.54	25.52	25.59	22.91	22.94	22.64	25.27	25.37	25.45	23.25	23.38	23.16
		50	25	26.20	26.23	26.07	23.58	23.45	23.18	25.82	25.74	25.62	22.93	22.92	23.05
		100	0	26.29	26.27	26.08	23.58	23.54	23.24	25.77	25.82	25.67	22.97	22.97	23.06
	256QAM	1	0	24.24	24.46	24.40	21.60	21.62	21.63	24.39	24.52	24.45	21.20	21.23	21.28
		1	1	24.27	24.22	24.35	21.61	21.60	21.38	24.28	24.32	24.20	21.08	21.13	21.01
		1	104	24.40	24.17	24.24	21.56	21.59	21.42	23.89	23.97	23.90	21.04	21.25	21.10
		1	105	24.22	24.20	24.03	21.52	21.50	21.29	23.91	24.16	23.80	20.85	21.03	20.96
		50	25	24.20	24.16	24.09	21.60	21.38	21.34	24.23	24.15	24.10	20.93	20.91	21.05
		100	0	24.26	24.23	24.16	21.67	21.45	21.41	24.29	24.32	24.17	21.05	20.97	21.03

OUTPUT POWER FOR 5G NR n77 (50.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				631666	633332	634998	631666	633332	634998	631666	633332	634998	631666	633332	634998
50.0	BPSK	1	0	25.36	25.29	25.08	22.67	22.52	22.51	25.29	25.18	25.41	25.18	25.04	25.08
		1	1	28.59	28.51	28.40	25.91	25.78	25.88	28.58	28.70	28.67	25.39	25.30	25.37
		1	131	28.27	28.27	28.28	25.63	25.62	25.77	28.42	28.53	28.37	25.21	25.25	25.10
		1	132	25.07	25.12	25.00	22.45	22.38	22.52	25.18	25.07	25.10	25.00	24.98	24.92
		64	32	28.40	28.32	28.30	25.72	25.60	25.75	28.52	28.48	28.45	25.14	25.19	25.21
		128	0	28.21	28.13	28.09	25.56	25.43	25.54	28.26	28.25	28.22	24.95	25.03	24.98
	QPSK	1	0	25.30	25.26	25.23	22.68	22.52	22.64	25.44	25.18	25.38	24.66	24.62	24.67
		1	1	28.70	28.51	28.46	26.00	25.83	25.94	28.65	28.65	28.54	25.50	25.35	25.32
		1	131	28.35	28.32	28.47	25.70	25.63	25.71	28.33	28.05	27.90	25.25	25.23	25.09
		1	132	25.01	25.02	25.20	22.47	22.36	22.47	25.15	25.05	25.03	24.43	24.47	24.39
		64	32	28.39	28.30	28.27	25.76	25.62	25.74	28.13	28.13	27.96	25.16	25.21	25.22
		128	0	27.67	27.60	27.61	25.07	24.89	25.05	27.49	27.41	27.25	24.44	24.52	24.51
	16QAM	1	0	25.41	25.38	25.45	22.92	22.84	22.96	25.67	25.63	25.58	23.63	23.90	23.71
		1	1	28.06	27.87	28.06	25.50	25.21	25.26	28.09	27.86	27.65	24.89	24.82	24.76
		1	131	27.98	27.65	27.63	25.13	25.08	25.05	27.38	27.34	27.22	24.77	24.74	24.56
		1	132	25.33	25.31	25.40	22.67	22.59	22.55	25.48	25.28	25.32	23.62	23.80	23.68
		64	32	27.64	27.64	27.54	25.09	24.92	24.95	27.38	27.27	27.23	24.46	24.50	24.49
		128	0	26.65	26.60	26.64	24.06	23.88	24.02	26.57	26.50	26.33	23.53	23.51	23.47
	64QAM	1	0	25.67	25.44	25.43	22.94	22.61	22.73	25.62	25.62	25.59	23.24	23.32	23.16
		1	1	26.35	26.12	26.23	23.92	23.52	23.74	26.39	26.66	26.42	23.16	23.06	23.29
		1	131	26.09	25.97	26.25	23.76	23.53	23.65	25.99	25.94	25.87	23.33	22.85	22.89
		1	132	25.18	25.18	25.35	22.59	22.64	22.47	25.33	25.54	25.21	23.10	23.25	22.95
		64	32	26.19	26.10	26.03	23.56	23.47	23.49	26.06	26.08	25.95	23.05	22.98	23.00
		128	0	26.15	26.11	26.10	23.58	23.48	23.50	26.13	26.05	25.98	23.01	22.96	22.97
	256QAM	1	0	24.16	24.09	24.04	21.69	21.58	21.64	24.13	24.27	24.29	21.03	21.09	20.82
		1	1	24.15	24.12	24.22	21.62	21.53	21.47	24.31	24.29	24.23	21.20	21.24	21.21
		1	131	23.93	23.95	23.99	21.37	21.23	21.41	24.32	23.78	24.03	20.96	20.97	20.95
		1	132	23.90	23.85	23.94	21.40	21.31	21.27	23.92	23.84	24.32	20.97	20.93	20.85
		64	32	24.14	24.06	24.01	21.53	21.44	21.44	24.23	24.25	24.09	20.98	20.92	20.92
		128	0	24.12	24.03	24.06	21.45	21.49	21.48	24.23	24.20	24.09	21.01	20.94	20.88

OUTPUT POWER FOR 5G NR n77 (60.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				632000	633332	634666	632000	633332	634666	632000	633332	634666	632000	633332	634666
60.0	BPSK	1	0	25.28	25.30	25.13	22.74	22.57	22.63	25.37	25.12	25.26	25.27	25.14	25.05
		1	1	28.58	28.61	28.53	26.00	25.94	25.87	28.56	28.51	28.61	25.45	25.33	25.37
		1	160	28.39	28.43	28.65	25.90	25.75	25.89	28.56	28.42	28.39	25.22	25.32	25.27
		1	161	25.10	25.21	25.32	22.52	22.40	22.61	25.26	25.15	24.88	24.97	25.12	25.02
		81	40	28.52	28.54	28.43	25.94	25.73	25.91	28.47	28.54	28.44	25.36	25.35	25.33
		162	0	28.31	28.27	28.30	25.70	25.56	25.66	28.35	28.32	28.29	25.14	25.12	25.10
	QPSK	1	0	25.41	25.29	25.28	22.89	22.56	22.58	25.49	25.34	25.30	24.72	24.63	24.59
		1	1	28.69	28.57	28.52	26.00	25.93	25.88	28.70	28.52	28.49	25.50	25.45	25.34
		1	160	28.46	28.46	28.70	25.83	25.74	25.85	28.25	28.36	28.38	25.38	25.37	25.26
		1	161	25.16	25.14	25.19	22.70	22.56	22.65	25.24	25.06	25.03	24.58	24.62	24.60
		81	40	28.57	28.48	28.42	25.94	25.83	25.93	28.21	28.06	28.05	25.38	25.35	25.36
		162	0	27.82	27.78	27.83	25.25	25.10	25.16	27.71	27.72	27.54	24.66	24.63	24.63
	16QAM	1	0	25.61	25.52	25.42	22.97	22.68	22.82	25.36	25.65	25.34	24.08	23.89	23.77
		1	1	28.05	27.94	27.96	25.63	25.44	25.29	28.23	28.23	27.91	24.82	24.98	25.01
		1	160	27.80	27.78	28.13	25.38	25.40	25.17	27.65	27.43	27.43	24.94	24.72	24.74
		1	161	25.49	25.45	25.46	22.78	22.84	22.83	25.73	25.54	25.33	23.58	23.91	23.80
		81	40	27.81	27.79	27.84	25.17	25.09	25.17	27.33	27.36	27.27	24.67	24.64	24.59
		162	0	28.79	28.84	28.79	24.21	24.05	24.12	26.67	26.72	26.61	23.60	23.64	23.62
	64QAM	1	0	25.31	25.50	25.62	22.96	22.90	22.43	25.52	25.45	25.25	23.31	23.34	22.98
		1	1	26.64	26.42	26.34	24.10	23.78	23.78	26.74	26.48	26.76	23.42	23.49	23.18
		1	160	26.35	26.42	26.47	23.65	23.55	23.68	25.84	25.99	25.72	23.12	23.12	23.18
		1	161	25.37	25.37	25.30	22.58	22.44	22.64	25.49	24.97	25.25	23.26	22.93	22.91
		81	40	26.33	26.22	26.30	23.62	23.66	23.53	26.06	26.09	25.96	23.10	23.10	23.06
		162	0	26.30	26.27	26.21	23.62	23.55	23.57	26.25	26.22	26.13	23.13	23.10	23.03
256QAM	1	0	24.34	24.09	24.29	21.62	21.68	21.51	24.37	24.15	24.12	21.31	21.03	20.97	
	1	1	24.41	24.09	24.23	21.77	21.68	21.57	24.00	24.27	24.49	21.10	20.96	20.88	
	1	160	24.20	24.15	24.24	21.53	21.63	21.59	24.21	23.82	24.08	21.11	20.89	21.00	
	1	161	24.14	23.96	24.27	21.46	21.51	21.53	23.89	23.99	24.36	21.11	21.03	21.08	
	81	40	24.31	24.22	24.23	21.64	21.67	21.63	24.23	24.30	24.18	21.04	21.03	21.03	
	162	0	24.29	24.18	24.24	21.61	21.67	21.54	24.18	24.27	24.13	21.02	21.01	21.01	

OUTPUT POWER FOR 5G NR n77 (70.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				632333	633332	634333	632333	633332	634333	632333	633332	634333	632333	633332	634333
70.0	BPSK	1	0	25.32	25.31	25.40	22.70	22.65	22.67	25.29	25.20	25.19	25.34	25.12	25.06
		1	1	28.57	28.60	28.56	25.93	25.98	25.90	28.44	28.56	28.46	25.47	25.35	25.18
		1	187	28.50	28.60	28.43	25.62	25.65	25.90	28.38	28.35	28.24	25.33	25.31	25.29
		1	188	25.20	25.21	25.22	22.39	22.35	22.35	25.10	24.98	25.17	25.09	25.10	24.92
		90	45	28.47	28.48	28.42	25.80	25.73	25.84	28.47	28.42	28.40	25.26	25.28	25.23
		180	0	28.29	28.34	28.22	25.66	25.57	25.69	28.23	28.21	28.21	25.12	25.07	25.07
	QPSK	1	0	25.39	25.35	25.30	22.62	22.58	22.69	25.19	25.10	25.26	24.69	24.62	24.71
		1	1	28.67	28.70	28.57	25.91	25.93	26.00	28.41	28.70	28.60	25.43	25.40	25.23
		1	187	28.45	28.38	28.44	25.80	25.81	25.73	28.46	28.16	28.21	25.50	25.34	25.28
		1	188	25.21	25.23	25.18	22.45	22.49	22.65	25.11	25.15	24.93	24.53	24.64	24.53
		90	45	28.44	28.54	28.32	25.80	25.73	25.85	27.86	28.08	28.06	25.28	25.26	25.23
		180	0	27.72	27.80	27.75	25.14	25.08	25.05	27.75	27.72	27.69	24.55	24.52	24.52
	16QAM	1	0	25.39	25.53	25.53	22.96	22.99	22.86	24.99	25.32	25.58	23.84	23.57	23.84
		1	1	28.05	28.14	27.95	25.40	25.47	25.25	27.61	28.08	27.90	25.02	24.73	24.89
		1	187	27.89	27.87	28.01	25.32	25.22	25.33	27.37	27.59	27.57	24.69	24.91	24.83
		1	188	25.35	25.48	25.32	22.65	22.54	22.76	24.90	25.20	25.52	23.89	23.70	23.60
		90	45	27.73	27.77	27.64	25.08	25.05	25.05	27.36	27.35	27.28	24.48	24.55	24.60
		180	0	26.80	26.81	26.70	24.14	24.13	23.96	26.74	26.70	26.64	23.55	23.49	23.60
	64QAM	1	0	25.43	25.35	25.51	22.97	22.87	22.73	25.17	25.49	25.31	23.20	23.27	23.11
		1	1	26.27	26.52	26.36	23.87	23.59	23.90	26.79	26.28	26.28	23.29	23.41	23.36
		1	187	26.56	26.45	26.50	23.47	23.91	23.58	26.04	25.96	26.07	23.37	23.38	23.51
		1	188	25.41	25.41	25.20	22.67	22.69	22.55	25.15	24.99	25.27	23.13	23.14	23.13
		90	45	26.29	26.28	26.18	23.54	23.51	23.53	26.05	25.97	26.00	22.98	23.00	23.02
		180	0	26.29	26.22	26.14	23.62	23.52	23.43	26.19	26.15	26.14	23.05	22.96	23.11
256QAM	1	0	24.57	24.30	24.13	21.64	21.62	21.45	24.44	24.19	24.40	21.11	20.93	20.88	
	1	1	24.25	24.49	24.13	21.60	21.75	21.42	24.40	24.16	23.96	21.29	21.19	21.01	
	1	187	24.03	24.04	24.07	21.44	21.73	21.44	23.78	24.27	23.90	20.91	20.78	21.13	
	1	188	24.21	23.94	24.26	21.58	21.50	21.36	24.19	23.89	23.87	20.90	20.82	21.04	
	90	45	24.20	24.17	24.15	21.53	21.60	21.49	24.15	24.14	24.12	20.92	21.00	21.06	
	180	0	24.29	24.19	24.17	21.57	21.64	21.54	24.16	24.18	24.01	20.98	21.03	21.09	

OUTPUT POWER FOR 5G NR n77 (80.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)												
				ANT 7			ANT 8			ANT 9			ANT 4			
				632666	633332	633998	632666	633332	633998	632666	633332	633998	632666	633332	633998	
80.0	BPSK	1	0	25.23	25.26	25.28	22.40	22.68	22.53	25.10	25.27	25.23	25.43	25.30	25.15	
		1	1	28.51	28.50	28.48	25.85	26.00	25.84	28.42	28.42	28.42	28.70	25.32	25.39	25.47
		1	215	28.39	28.53	28.49	25.70	25.79	25.73	28.43	28.41	28.23	25.37	25.41	25.23	
		1	216	25.17	25.07	25.37	22.48	22.68	22.45	24.97	25.13	25.03	25.27	25.20	25.12	
		108	54	28.45	28.48	28.43	25.65	25.67	25.81	28.54	28.47	28.41	25.34	25.34	25.35	
		216	0	28.27	28.28	28.28	25.56	25.53	25.49	28.32	28.27	28.21	25.17	25.13	25.09	
		1	0	25.28	25.27	25.16	22.62	22.63	22.62	25.07	25.29	25.22	24.59	24.69	24.66	
		1	1	28.52	28.70	28.39	25.83	25.92	25.80	28.51	28.43	28.37	25.41	25.46	25.35	
	QPSK	1	215	28.36	28.49	28.53	25.77	25.76	25.67	28.41	28.66	28.23	25.50	25.48	25.43	
		1	216	25.27	25.22	25.20	22.41	22.59	22.54	25.10	25.12	25.27	24.66	24.63	24.73	
		108	54	28.50	28.45	28.41	25.78	25.80	25.77	28.27	28.14	28.16	25.36	25.32	25.33	
		216	0	27.80	27.73	27.73	25.06	25.04	24.97	27.75	27.75	27.73	24.65	24.63	24.59	
		1	0	25.29	25.58	25.45	22.71	22.78	22.93	25.68	25.44	25.35	24.00	23.66	23.64	
		1	1	27.93	28.07	27.91	25.41	25.34	25.28	27.68	28.08	27.90	24.96	24.77	24.78	
		1	215	28.09	28.13	27.96	25.12	25.00	25.22	27.51	27.99	27.82	24.89	25.00	24.68	
		1	216	25.40	25.65	25.53	22.51	22.59	22.61	25.55	25.45	25.56	23.92	23.78	23.73	
	16QAM	108	54	27.79	27.77	27.76	25.04	24.95	25.06	27.42	27.47	27.33	24.64	24.58	24.74	
		216	0	26.68	26.79	26.75	24.04	24.00	23.96	26.80	26.69	26.72	23.61	23.60	23.63	
		1	0	25.52	25.47	25.48	22.64	22.65	22.85	25.34	25.50	25.48	23.47	23.39	23.36	
		1	1	26.43	26.46	26.52	23.70	23.26	23.74	26.50	26.93	26.54	23.52	23.16	23.21	
		1	215	26.19	26.43	26.39	23.46	23.61	23.40	25.84	26.23	25.62	23.23	23.36	23.14	
		1	216	25.08	25.31	25.82	22.51	22.69	22.56	25.24	25.33	25.62	23.39	23.51	23.21	
		108	54	26.17	26.25	26.24	23.50	23.48	23.55	26.13	26.21	26.05	23.10	23.05	23.16	
		216	0	26.22	26.25	26.27	23.47	23.47	23.44	26.24	26.21	26.17	23.12	23.14	23.20	
	64QAM	1	0	23.98	24.19	24.43	21.66	21.45	21.52	24.11	24.17	24.09	21.37	21.06	21.13	
		1	1	24.32	24.14	24.23	21.51	21.48	21.60	24.06	24.37	24.25	21.33	21.29	21.08	
		1	215	24.35	24.02	24.07	21.13	21.36	21.35	24.18	24.29	24.22	21.16	21.10	21.04	
		1	216	24.00	24.17	24.12	21.33	21.47	21.47	24.40	23.84	23.89	21.03	21.18	21.09	
108		54	24.18	24.26	24.15	21.38	21.46	21.42	24.21	24.28	24.23	21.01	21.13	21.15		
216		0	24.14	24.26	24.20	21.44	21.50	21.46	24.18	24.20	24.20	21.09	21.05	21.17		

OUTPUT POWER FOR 5G NR n77 (90.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				633000	633332	633666	633000	633332	633666	633000	633332	633666	633000	633332	633666
90.0	BPSK	1	0	25.18	25.34	25.24	22.67	22.71	22.57	25.32	25.47	25.44	25.03	25.20	25.07
		1	1	28.36	28.60	28.55	25.84	25.96	25.90	28.33	28.54	28.67	25.16	25.27	25.26
		1	243	28.67	28.70	28.58	25.88	25.74	25.75	28.42	28.67	28.46	25.42	25.39	25.31
		1	244	25.05	25.22	25.52	22.59	22.65	22.55	25.38	25.32	25.53	25.21	25.15	25.15
		120	60	28.38	28.47	28.45	25.84	25.83	25.72	28.63	28.60	28.60	25.22	25.27	25.28
		243	0	28.23	28.31	28.25	25.66	25.58	25.62	28.44	28.34	28.40	25.08	25.06	25.01
		1	0	25.00	25.33	25.35	22.72	22.70	22.63	25.38	25.24	25.41	24.65	24.56	24.65
		1	1	28.58	28.44	28.58	25.89	25.96	25.81	28.70	28.59	28.63	25.24	25.25	25.36
	QPSK	1	243	28.46	28.47	28.50	25.97	26.00	25.73	28.61	28.37	28.67	25.44	25.50	25.29
		1	244	25.37	25.31	25.26	22.59	22.59	22.58	25.32	25.29	25.31	24.88	24.67	24.44
		120	60	28.38	28.45	28.50	25.77	25.86	25.77	28.21	28.28	28.14	25.23	25.31	25.27
		243	0	27.78	27.77	27.70	25.09	25.13	25.07	27.85	27.88	27.85	24.52	24.56	24.49
		1	0	25.55	25.73	25.62	22.78	22.85	22.92	25.37	25.43	25.60	23.83	23.79	23.94
		1	1	27.97	28.17	28.18	25.24	25.33	25.31	28.20	28.00	28.09	24.68	24.75	24.99
		1	243	27.94	27.95	27.85	25.37	25.28	25.39	27.62	27.62	28.04	24.90	24.85	24.78
		1	244	25.90	25.46	25.28	22.81	22.51	23.04	25.40	25.60	25.75	23.74	23.79	23.65
	16QAM	120	60	27.67	27.76	27.70	25.09	25.11	25.03	27.57	27.59	27.44	24.54	24.52	24.54
		243	0	26.71	26.77	26.76	24.06	24.06	24.03	26.89	26.83	26.80	23.54	23.56	23.52
		1	0	25.22	25.53	25.34	22.63	22.84	22.89	25.88	25.49	25.55	23.40	23.50	23.44
		1	1	26.04	26.59	26.72	24.05	23.87	23.61	26.73	26.10	26.50	23.24	23.26	23.02
		1	243	26.45	26.68	26.46	23.83	23.82	23.54	26.26	26.32	25.66	23.29	23.34	23.42
		1	244	25.35	25.53	25.50	22.79	22.93	22.61	25.69	25.02	25.43	23.32	23.15	23.26
		120	60	26.13	26.16	26.19	23.53	23.55	23.52	26.20	26.30	26.24	22.97	22.97	23.01
		243	0	26.19	26.19	26.25	23.56	23.51	23.52	26.37	26.38	26.33	23.05	22.98	22.94
	64QAM	1	0	24.27	24.54	24.41	21.73	21.50	21.52	24.32	24.23	24.00	21.11	21.01	20.98
		1	1	23.85	24.26	24.37	21.67	21.47	21.39	24.17	24.27	24.37	21.02	20.99	21.27
		1	243	24.06	24.04	24.44	21.65	21.71	21.50	24.24	24.17	24.30	20.85	20.88	21.33
		1	244	24.29	24.34	24.10	21.48	21.66	21.45	24.38	24.30	24.30	20.90	21.12	21.14
120		60	24.11	24.17	24.17	21.58	21.55	21.59	24.31	24.27	24.34	20.95	20.97	21.07	
243		0	24.21	24.17	24.22	21.58	21.55	21.48	24.30	24.33	24.22	20.97	21.02	20.99	

OUTPUT POWER FOR 5G NR n77 (100.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 10		
				N/A	633332	N/A	N/A	633332	N/A	N/A	633332	N/A	N/A	633332	N/A
100.0	BPSK	1	0		25.19			22.40			25.44			25.04	
		1	1		28.62			25.84			28.51			25.35	
		1	271		28.70			25.82			28.70			25.40	
		1	272		25.34			22.55			25.34			25.01	
		135	67		28.52			25.79			28.54			25.19	
		270	0		28.27			25.61			28.36			25.02	
	QPSK	1	0		25.25			22.61			25.31			24.46	
		1	1		28.40			26.00			28.39			25.29	
		1	271		28.62			25.83			28.43			25.50	
		1	272		25.23			22.41			25.42			24.50	
		135	67		28.52			25.82			28.37			25.16	
		270	0		27.70			25.07			27.80			24.48	
	16QAM	1	0		25.33			22.93			25.68			23.56	
		1	1		27.64			25.41			27.74			24.68	
		1	271		28.18			25.27			27.71			24.59	
		1	272		25.69			22.81			25.61			23.86	
		135	67		27.70			25.04			27.52			24.42	
		270	0		26.71			24.11			26.81			23.44	
	64QAM	1	0		25.08			22.79			25.26			23.30	
		1	1		26.41			23.55			26.62			23.31	
		1	271		26.43			23.67			26.06			22.98	
		1	272		25.61			22.76			25.38			23.43	
		135	67		26.19			23.63			26.13			22.93	
		270	0		26.19			23.58			26.24			22.96	
	256QAM	1	0		24.15			21.61			24.20			21.03	
		1	1		24.43			21.35			24.11			21.09	
		1	271		24.13			21.56			24.14			21.03	
		1	272		24.37			21.39			24.30			20.95	
		135	67		24.17			21.61			24.44			20.94	
		270	0		24.19			21.54			24.22			20.99	

8.16. 5G NR n77 (FCC Part 27 3700-3980MHz)

Test Engineer ID:	19146	Test Date:	4/3/2022
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OUTPUT POWER FOR 5G NR n77 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 9			ANT 9			ANT 4		
				647000 3705.0	656000 3840.0	665000 3975.0	647000 3705.0	656000 3840.0	665000 3975.0	647000 3705.0	656000 3840.0	665000 3975.0	647000 3705.0	656000 3840.0	665000 3975.0
10.0	BPSK	1	0	24.60	25.02	25.39	22.67	22.69	22.56	24.32	24.84	25.09	25.26	24.94	25.31
		1	1	27.97	28.33	28.65	25.88	25.99	25.70	27.95	28.31	28.68	25.48	25.09	25.41
		1	22	28.03	28.31	28.64	25.76	25.88	25.70	27.85	28.37	28.64	25.31	25.08	25.49
		1	23	24.71	25.04	25.33	22.57	22.71	22.39	24.29	24.81	25.07	25.07	24.86	25.27
		12	6	28.04	28.30	28.68	25.74	25.95	25.74	27.87	28.36	28.65	25.28	25.09	25.50
		24	0	27.77	28.14	28.48	25.61	25.73	25.50	27.30	27.83	28.05	25.16	24.90	25.17
		1	0	24.71	25.08	25.43	22.54	22.73	22.56	24.40	24.80	25.12	24.61	24.44	24.76
		1	1	27.79	28.28	28.70	25.83	26.00	25.78	27.09	28.36	28.70	25.33	25.14	25.46
	1	22	27.67	28.21	28.68	25.85	25.92	25.63	27.06	28.40	28.58	25.31	25.06	25.48	
	1	23	24.84	24.99	25.35	22.60	22.68	22.36	24.39	24.87	25.06	24.53	24.36	24.73	
	12	6	27.47	27.92	28.63	25.87	25.82	25.74	27.03	28.27	28.31	25.42	25.15	25.50	
	24	0	26.77	26.96	27.92	25.09	25.24	24.92	26.12	27.39	27.48	24.63	24.43	24.70	
	1	0	24.70	25.16	25.67	22.55	22.91	22.74	24.53	25.12	25.23	23.40	23.50	23.88	
	1	1	26.84	27.35	28.19	24.98	25.37	25.17	26.39	27.69	27.88	24.54	24.48	25.01	
	1	22	26.73	27.41	28.17	24.88	25.38	25.07	26.46	27.62	27.81	24.50	24.66	24.87	
	1	23	24.95	25.13	25.60	22.62	22.89	22.66	24.69	24.98	25.22	23.32	23.52	23.79	
	12	6	26.78	27.12	27.96	25.12	25.31	24.96	26.13	27.36	27.65	24.57	24.45	24.69	
	24	0	25.91	26.10	27.02	24.09	24.22	23.95	25.16	26.40	26.55	23.54	23.41	23.65	
	1	0	25.09	25.12	25.63	22.58	22.92	22.74	24.53	25.07	25.25	23.23	23.12	23.42	
	1	1	25.89	25.99	26.59	23.82	23.86	23.58	24.97	26.07	26.24	23.05	23.10	23.28	
	1	22	25.75	25.94	26.62	23.71	23.83	23.43	24.92	26.11	26.32	23.16	23.07	23.33	
	1	23	25.21	25.16	25.47	22.68	22.94	22.67	24.41	25.01	25.22	23.06	23.08	23.34	
	12	6	25.58	25.67	26.49	23.62	23.71	23.39	24.76	25.92	26.13	22.99	22.95	23.18	
	24	0	25.56	25.69	26.46	23.60	23.75	23.44	24.84	25.94	26.15	22.95	22.86	23.10	
	1	0	23.56	24.11	24.48	21.72	21.60	21.50	23.32	23.82	23.95	21.02	20.73	21.16	
	1	1	23.57	23.93	24.29	21.50	21.78	21.36	23.44	23.67	23.86	20.98	20.76	21.08	
	1	22	23.47	24.01	24.36	21.59	21.54	21.47	23.36	23.78	24.01	21.17	20.82	21.03	
	1	23	23.41	24.04	24.45	21.52	21.54	21.34	23.32	23.80	23.96	20.98	20.75	21.05	
	12	6	23.61	24.01	24.39	21.58	21.69	21.44	23.43	23.87	23.90	21.01	20.95	21.14	
	24	0	23.51	24.03	24.37	21.62	21.70	21.45	23.43	23.79	23.92	20.89	20.95	21.18	

OUTPUT POWER FOR 5G NR n77 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				647033 3707.5	656000 3840.0	664833 3972.5	647033 3707.5	656000 3840.0	664833 3972.5	647033 3707.5	656000 3840.0	664833 3972.5	647033 3707.5	656000 3840.0	664833 3972.5
15.0	BPSK	1	0	25.26	24.77	24.81	22.62	22.43	24.77	24.99	24.84	25.10	24.97	25.34	
		1	1	28.54	28.14	28.08	25.84	26.00	25.75	28.32	28.44	28.60	25.43	25.21	25.50
		1	36	28.41	28.06	27.97	25.90	25.77	25.62	28.29	28.46	28.42	25.31	25.24	25.49
		1	37	25.22	24.80	24.70	22.50	22.52	22.38	24.84	25.20	24.91	25.11	25.09	25.18
		18	9	28.51	27.99	28.02	25.83	25.84	25.66	28.30	28.57	28.39	25.32	25.18	25.33
		36	0	28.27	27.87	27.72	25.60	25.63	25.48	27.44	28.10	27.95	25.10	25.01	25.16
		1	0	25.46	24.85	24.74	22.56	22.61	22.49	24.93	25.01	25.02	24.66	24.53	24.76
		1	1	28.70	28.19	27.99	25.86	25.94	25.71	27.23	28.67	28.62	25.39	25.30	25.46
	1	36	28.51	28.08	27.98	25.88	25.83	25.63	27.28	28.70	28.50	25.32	25.29	25.39	
	1	37	25.10	24.69	24.68	22.60	22.63	22.35	24.87	25.13	24.96	24.54	24.53	24.77	
	18	9	28.49	28.08	27.91	25.77	25.84	25.66	27.04	28.16	27.80	25.33	25.21	25.35	
	36	0	27.79	27.38	27.28	25.07	25.12	24.93	26.30	27.45	27.09	24.55	24.56	24.61	
	1	0	25.26	25.05	25.01	22.70	22.92	22.65	25.07	25.23	25.19	23.81	23.78	23.85	
	1	1	27.74	27.67	27.44	25.31	25.41	25.24	26.77	27.64	27.48	24.74	24.76	25.07	
	1	36	27.71	27.62	27.33	25.18	25.28	25.05	26.71	27.76	27.35	24.93	24.65	24.89	
	1	37	24.99	25.05	24.85	22.76	22.80	22.41	25.10	25.18	25.06	23.78	23.84	23.94	
	18	9	27.78	27.34	27.18	25.13	25.19	24.93	26.34	26.92	27.00	24.58	24.56	24.92	
	36	0	26.81	26.36	26.19	24.05	24.19	23.96	25.33	26.00	26.29	23.47	23.46	23.82	
	1	0	25.65	25.20	24.93	22.68	22.78	22.61	25.18	24.95	25.16	23.38	23.17	23.82	
	1	1	26.34	26.29	25.98	23.79	24.05	23.53	25.10	25.62	26.25	23.28	23.07	23.52	
	1	36	26.03	25.95	25.59	23.65	23.95	23.53	25.25	25.70	26.06	23.30	23.04	23.57	
	1	37	25.37	25.04	25.02	22.75	22.72	22.39	25.00	24.85	25.14	23.15	23.10	23.71	
	18	9	26.27	25.75	25.62	23.56	23.54	23.39	25.02	25.67	25.71	23.06	22.94	23.51	
	36	0	26.24	25.79	25.63	23.56	23.65	23.39	24.92	25.77	25.81	23.06	22.98	23.55	
	1	0	24.43	23.93	23.78	21.41	21.70	21.43	23.29	23.97	23.84	21.08	20.63	21.46	
	1	1	24.49	23.95	23.66	21.62	21.64	21.37	23.45	23.53	24.02	21.04	20.95	21.44	
	1	36	24.16	23.68	23.81	21.61	21.54	21.53	23.64	23.84	23.75	21.04	21.04	21.48	
	1	37	24.15	23.63	23.44	21.42	21.45	21.34	23.68	23.91	23.93	20.96	20.75	21.32	
	18	9	24.23	23.83	23.80	21.57	21.59	21.49	23.51	23.73	23.83	20.93	20.90	21.39	
	36	0	24.19	23.78	23.66	21.46	21.59	21.33	23.69	23.80	23.89	20.99	20.88	21.41	

OUTPUT POWER FOR 5G NR n77 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				647333	656000	664666	647333	656000	664666	647333	656000	664666	647333	656000	664666
20.0	BPSK	1	0	25.26	24.77	24.81	22.62	22.62	22.43	27.87	28.00	27.45	24.89	24.87	25.29
		1	1	28.54	28.14	28.08	25.84	26.00	25.75	28.47	28.63	28.00	25.10	25.21	25.42
		1	49	28.41	28.06	27.97	25.90	25.77	25.62	28.48	28.64	27.85	24.84	25.09	25.25
		1	50	25.22	24.80	24.70	22.50	22.52	22.38	27.90	28.12	27.45	24.67	24.95	25.14
		25	12	28.51	27.99	28.02	25.83	25.84	25.66	28.47	28.66	27.93	24.92	25.08	25.42
	50	0	28.27	27.87	27.72	25.60	25.63	25.48	27.98	28.05	27.40	24.72	24.90	25.13	
	QPSK	1	0	25.46	24.85	24.74	22.56	22.61	22.49	27.54	27.49	27.00	24.34	24.38	24.86
		1	1	28.70	28.19	27.99	25.86	25.94	25.71	28.52	28.53	28.00	25.09	25.13	25.50
		1	49	28.51	28.08	27.98	25.88	25.83	25.63	28.61	28.70	27.92	24.86	25.14	25.33
		1	50	25.10	24.69	24.68	22.60	22.63	22.35	27.51	27.65	26.85	24.20	24.35	24.69
		25	12	28.49	28.08	27.91	25.77	25.84	25.66	28.45	28.66	27.90	24.93	25.14	25.11
	50	0	27.79	27.38	27.28	25.07	25.12	24.93	27.45	27.60	26.89	24.24	24.40	24.37	
	16QAM	1	0	25.26	25.05	25.01	22.70	22.92	22.65	26.24	26.71	26.22	23.61	23.58	23.58
		1	1	27.74	27.67	27.44	25.31	25.41	25.24	27.40	27.84	27.31	24.67	24.61	24.90
		1	49	27.71	27.62	27.33	25.18	25.28	25.05	27.20	27.84	26.91	24.35	24.56	24.41
		1	50	24.99	25.05	24.85	22.76	22.80	22.41	26.25	26.84	26.05	23.36	23.60	23.52
		25	12	27.78	27.34	27.18	25.13	25.19	24.93	27.50	27.64	26.88	24.19	24.30	24.15
	50	0	26.81	26.36	26.19	24.05	24.19	23.96	26.46	26.61	25.91	23.27	23.36	23.25	
	64QAM	1	0	25.65	25.20	24.93	22.68	22.78	22.61	26.18	26.34	25.67	23.06	23.08	23.26
		1	1	26.34	26.29	25.98	23.79	24.05	23.53	26.03	26.07	25.90	22.99	23.17	23.10
		1	49	26.03	25.95	25.59	23.65	23.95	23.53	26.04	26.27	25.52	23.00	23.31	22.92
		1	50	25.37	25.04	25.02	22.75	22.72	22.39	26.23	26.11	25.61	22.98	23.11	23.01
		25	12	26.27	25.75	25.62	23.56	23.54	23.39	25.88	25.96	25.30	22.84	22.85	22.77
	50	0	26.24	25.79	25.63	23.56	23.65	23.39	25.97	26.04	25.40	22.91	22.81	22.77	
	256QAM	1	0	24.43	23.93	23.78	21.41	21.70	21.43	24.00	23.87	23.51	20.83	20.79	21.25
		1	1	24.49	23.95	23.66	21.62	21.64	21.37	24.01	23.54	23.51	21.05	20.69	21.22
		1	49	24.16	23.68	23.81	21.61	21.54	21.53	24.05	23.83	23.32	20.63	20.67	20.91
		1	50	24.15	23.63	23.44	21.42	21.45	21.34	23.98	23.94	23.08	20.69	20.78	20.91
		25	12	24.23	23.83	23.80	21.57	21.59	21.49	23.96	24.05	23.42	20.84	20.92	21.16
	50	0	24.19	23.78	23.66	21.46	21.59	21.33	23.93	24.02	23.37	20.87	20.95	21.15	

OUTPUT POWER FOR 5G NR n77 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				647666	656000	664333	647666	656000	664333	647666	656000	664333	647666	656000	664333
30.0	BPSK	1	0	25.33	25.06	24.69	22.53	22.67	22.39	27.61	28.05	27.60	24.13	24.72	25.28
		1	1	28.70	28.39	27.83	25.84	26.00	25.64	28.11	28.53	28.20	24.54	24.85	25.38
		1	76	28.69	28.20	27.78	25.80	25.83	25.53	28.16	28.70	27.95	24.62	25.18	25.05
		1	77	25.29	24.80	24.50	22.32	22.57	22.26	27.63	28.20	27.44	24.34	24.91	24.91
		36	18	28.64	28.18	27.74	25.79	25.82	25.72	28.14	28.60	28.03	24.43	25.10	25.16
	75	0	28.41	28.06	27.59	25.58	25.57	25.44	27.64	28.12	27.58	24.28	24.88	25.01	
	QPSK	1	0	25.36	25.15	24.66	22.56	22.64	22.58	27.13	27.47	27.23	23.81	24.30	24.77
		1	1	28.67	28.45	28.03	25.87	25.97	25.82	28.13	28.60	28.19	24.56	25.01	25.50
		1	76	28.58	28.12	27.83	25.72	25.93	25.54	28.24	28.68	27.98	24.60	25.30	25.21
		1	77	25.29	24.81	24.48	22.59	22.65	22.31	27.22	27.76	26.91	23.96	24.50	24.52
		36	18	28.52	28.24	27.83	25.80	25.82	25.64	28.15	28.59	28.01	24.74	25.10	24.64
	75	0	27.85	27.52	27.09	25.05	25.15	24.98	27.15	27.53	27.09	24.09	24.35	24.06	
	16QAM	1	0	25.59	25.47	24.92	22.92	22.79	22.86	26.44	26.57	26.28	23.46	23.22	23.80
		1	1	28.10	27.90	27.46	25.43	25.48	25.15	27.33	27.75	27.38	24.38	24.45	24.63
		1	76	27.98	27.60	27.43	25.36	25.41	25.02	27.47	27.86	27.22	24.44	24.80	24.21
		1	77	25.53	25.17	24.65	22.70	22.78	22.61	26.34	26.79	26.09	23.60	23.77	23.31
		36	18	27.86	27.48	27.02	25.02	25.13	24.94	27.13	27.52	26.85	24.07	24.34	23.91
	75	0	26.89	26.57	26.08	24.05	24.14	23.87	26.10	26.59	25.85	23.05	23.28	23.11	
	64QAM	1	0	25.56	25.41	24.69	22.77	23.02	22.83	25.50	26.08	25.46	22.80	22.88	23.23
		1	1	26.70	26.32	25.65	23.99	23.77	23.60	25.96	26.30	25.36	22.82	22.65	23.24
		1	76	26.61	25.98	25.71	23.72	23.71	23.63	25.91	26.29	25.17	22.70	23.24	22.77
		1	77	25.26	25.06	24.66	22.61	22.71	22.52	26.02	26.56	25.58	22.88	23.26	22.77
		36	18	26.43	25.93	25.56	23.54	23.63	23.47	25.67	26.10	25.40	22.51	22.76	22.52
	75	0	26.36	25.99	25.57	23.57	23.59	23.45	25.61	26.11	25.38	22.53	22.78	22.67	
	256QAM	1	0	24.43	24.21	23.69	21.58	21.87	21.33	23.72	23.73	23.29	20.37	20.75	21.13
		1	1	24.26	24.03	23.49	21.47	21.48	21.44	23.69	23.98	23.36	20.44	20.52	21.27
		1	76	24.43	23.64	23.26	21.57	21.82	21.36	23.73	24.11	23.14	20.56	20.79	20.74
		1	77	24.34	23.74	23.49	21.40	21.39	21.36	23.45	24.04	23.13	20.54	20.80	20.87
		36	18	24.21	23.76	23.46	21.44	21.57	21.37	23.50	24.12	23.24	20.63	20.92	20.97
	75	0	24.29	23.96	23.57	21.47	21.64	21.38	23.60	24.25	23.28	20.58	20.89	20.94	

OUTPUT POWER FOR 5G NR n77 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				648000	656000	664000	648000	656000	664000	648000	656000	664000	648000	656000	664000
40.0	BPSK	1	0	25.47	24.98	24.61	22.70	22.61	22.34	27.71	28.06	27.57	23.99	24.83	25.37
		1	1	28.70	28.49	27.90	25.99	25.95	25.75	28.28	28.46	27.85	24.57	24.87	25.47
		1	104	28.38	27.87	27.69	25.47	25.63	25.48	28.26	28.60	27.73	24.51	25.14	25.08
		1	105	25.02	24.62	24.42	22.20	22.69	22.22	27.71	28.04	27.33	24.32	24.98	24.90
		50	25	28.50	27.99	27.68	25.70	25.75	25.56	28.25	28.57	27.89	24.30	24.95	25.05
	100	0	28.29	27.90	27.54	25.47	25.52	25.40	27.77	28.10	27.36	24.03	24.74	24.84	
	QPSK	1	0	25.50	25.02	24.62	22.63	22.56	22.46	27.27	27.59	27.02	23.90	24.12	24.58
		1	1	28.45	28.41	27.93	25.91	26.00	25.66	28.39	28.58	27.90	24.58	24.93	25.50
		1	104	28.30	27.96	27.74	25.63	25.82	25.71	28.14	28.70	27.84	24.67	25.26	25.14
		1	105	25.04	24.66	24.57	22.36	22.63	22.34	27.27	27.49	26.83	23.77	24.47	24.36
		50	25	28.13	28.04	27.74	25.68	25.72	25.55	28.27	28.62	27.93	24.35	24.93	24.62
	100	0	27.35	27.33	27.05	24.96	24.98	24.95	27.24	27.52	26.89	23.52	24.18	24.10	
	16QAM	1	0	25.63	25.36	24.95	22.83	22.97	22.78	26.72	26.56	26.12	22.40	23.30	23.95
		1	1	27.60	28.00	27.46	25.69	25.48	25.19	27.58	27.61	27.25	23.39	24.42	24.69
		1	104	27.27	27.40	27.29	24.89	25.12	24.97	27.40	27.84	27.10	23.34	24.68	24.10
		1	105	25.13	24.78	24.75	22.30	22.61	22.36	26.25	27.03	26.27	22.61	23.83	23.19
		50	25	27.40	27.41	27.04	25.02	25.01	24.85	27.22	27.66	26.88	23.56	24.28	24.09
	100	0	26.45	26.36	26.05	23.96	24.02	23.84	26.23	26.58	25.88	22.45	23.27	23.28	
	64QAM	1	0	25.45	25.25	24.67	22.93	22.60	22.69	26.06	26.06	25.77	22.73	22.94	23.42
		1	1	26.05	26.31	25.71	23.88	23.54	23.43	26.04	26.34	25.66	22.62	22.90	23.44
		1	104	25.86	25.79	25.74	23.28	23.75	23.45	25.82	25.98	25.28	22.79	23.32	22.97
		1	105	25.31	24.74	24.70	22.47	22.92	22.25	25.95	26.19	25.23	22.91	23.04	22.84
		50	25	26.08	25.73	25.41	23.40	23.50	23.33	25.72	26.08	25.35	22.34	22.77	22.77
	100	0	26.09	25.82	25.43	23.40	23.47	23.30	25.73	26.06	25.35	22.35	22.77	22.85	
	256QAM	1	0	24.13	24.26	23.57	21.69	21.78	21.41	23.66	23.92	23.51	20.53	20.63	20.98
		1	1	24.51	24.17	23.46	21.67	21.41	21.38	23.60	23.76	23.69	20.71	20.57	21.21
		1	104	23.91	23.56	23.31	21.35	21.45	21.21	23.59	23.84	23.42	20.61	20.99	20.76
		1	105	24.05	23.43	23.64	21.24	21.36	21.34	23.83	23.76	23.52	20.34	20.78	20.81
		50	25	24.09	23.73	23.40	21.39	21.47	21.32	23.69	24.12	23.42	20.19	20.73	20.82
	100	0	24.14	23.80	23.38	21.40	21.46	21.28	23.69	24.07	23.36	20.24	20.74	20.83	

OUTPUT POWER FOR 5G NR n77 (50.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				648333	656000	663666	648333	656000	663666	648333	656000	663666	648333	656000	663666
50.0	BPSK	1	0	25.25	25.33	24.78	22.72	22.63	22.50	27.75	27.55	27.32	24.37	24.52	25.26
		1	1	28.59	28.56	28.03	25.85	25.76	25.80	28.23	28.37	27.82	24.54	24.71	25.50
		1	131	28.34	28.00	27.71	25.46	25.96	25.49	28.07	28.70	27.86	24.72	25.22	24.92
		1	132	25.08	24.97	24.50	22.12	22.62	22.35	27.70	28.17	27.40	24.48	24.98	24.74
		64	32	28.57	28.39	27.80	25.75	25.81	25.66	28.27	28.64	27.87	24.53	25.01	25.21
	128	0	28.33	28.12	27.65	25.51	25.66	25.45	27.75	28.01	27.33	24.34	24.78	25.01	
	QPSK	1	0	25.22	25.42	24.90	22.56	22.56	22.47	27.32	27.25	27.01	23.91	23.91	24.83
		1	1	28.61	28.70	28.01	25.84	25.87	25.78	28.29	28.30	27.88	24.62	24.77	25.41
		1	131	28.52	28.29	27.87	25.57	26.00	25.43	28.19	28.59	27.83	24.69	25.18	25.14
		1	132	25.14	25.00	24.62	22.13	22.65	22.46	27.15	27.56	26.91	23.93	24.56	24.38
		64	32	28.30	28.42	27.91	25.72	25.89	25.64	28.24	28.58	27.85	24.57	25.01	25.15
	128	0	27.63	27.67	27.19	24.97	25.09	24.97	27.20	27.52	26.79	23.81	24.27	24.54	
	16QAM	1	0	25.57	25.67	24.90	22.79	22.83	22.59	26.31	26.44	26.18	22.97	23.34	23.91
		1	1	27.49	27.86	27.48	25.27	25.40	25.02	27.55	27.35	27.05	24.16	24.25	25.00
		1	131	27.51	27.75	27.26	25.00	25.49	24.99	27.54	27.73	27.16	24.22	24.87	24.40
		1	132	25.18	25.29	24.78	22.47	22.85	22.88	26.30	26.72	25.93	23.04	23.77	23.47
		64	32	27.58	27.68	27.13	25.00	25.16	24.94	27.23	27.61	26.90	23.82	24.29	24.43
	128	0	26.89	26.66	26.23	23.92	24.05	23.85	26.15	26.49	25.78	22.85	23.24	23.52	
	64QAM	1	0	25.54	25.46	24.89	22.39	22.59	22.89	26.11	25.97	25.23	22.42	22.83	23.04
		1	1	26.39	26.34	25.81	23.75	23.57	23.57	25.65	25.91	25.38	22.35	22.47	23.31
		1	131	26.25	25.95	25.89	23.22	23.77	23.69	25.62	26.27	25.66	22.47	23.35	23.06
		1	132	25.19	25.20	24.87	22.24	22.91	22.35	25.37	26.28	25.45	22.43	23.36	22.84
		64	32	26.47	26.10	25.61	23.52	23.62	23.41	25.79	26.03	25.27	22.37	22.78	22.99
	128	0	26.43	26.11	25.64	23.49	23.60	23.43	25.66	26.03	25.29	22.35	22.75	22.94	
	256QAM	1	0	24.43	24.03	23.86	21.11	21.52	21.30	23.62	23.65	23.45	20.11	20.40	21.11
		1	1	24.60	24.56	23.74	21.75	21.72	21.32	23.75	23.75	23.36	20.37	20.35	21.09
		1	131	24.11	23.86	23.67	21.26	21.62	21.32	23.57	24.02	23.42	20.54	20.90	20.91
		1	132	24.39	23.94	23.78	21.10	21.48	21.44	23.57	24.09	23.25	20.47	20.71	20.85
		64	32	24.29	24.03	23.54	21.43	21.54	21.35	23.74	24.04	23.28	20.26	20.74	20.91
	128	0	24.28	23.99	23.59	21.37	21.60	21.37	23.59	23.88	23.31	20.29	20.65	20.96	

OUTPUT POWER FOR 5G NR n77 (60.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				648666	656000	663333	648666	656000	663333	648666	656000	663333	648666	656000	663333
60.0	BPSK	1	0	25.43	25.10	24.33	22.71	22.68	22.77	27.89	27.73	27.64	24.59	24.72	25.23
		1	1	28.63	28.51	27.97	25.86	25.82	25.82	28.34	28.32	28.06	24.97	24.84	25.49
		1	160	28.45	28.10	27.59	25.48	25.89	25.69	28.07	28.58	28.00	25.07	25.36	25.02
		1	161	25.30	24.69	24.24	22.36	22.50	22.31	27.73	27.99	27.61	24.79	24.98	24.90
		81	40	28.59	28.20	27.60	25.66	25.84	25.70	28.24	28.67	28.13	24.80	25.04	25.22
		162	0	28.35	28.02	27.47	25.49	25.66	25.49	27.78	28.15	27.67	24.65	24.83	25.03
	QPSK	1	0	25.41	25.30	24.78	22.62	22.59	22.68	27.21	27.40	26.99	24.25	24.27	24.80
		1	1	28.70	28.53	27.95	25.85	25.87	25.90	28.11	28.31	28.15	24.89	24.98	25.50
		1	160	28.60	27.96	27.54	25.51	26.00	25.58	28.24	28.48	28.07	25.06	25.17	25.02
		1	161	25.16	24.71	24.21	22.27	22.56	22.38	27.04	27.61	27.21	24.20	24.48	24.33
		81	40	28.49	28.20	27.62	25.72	25.83	25.72	28.17	28.70	28.20	24.76	25.03	25.24
		162	0	27.89	27.59	26.92	24.96	25.10	25.00	27.17	27.64	27.16	24.09	24.32	24.56
	16QAM	1	0	25.35	25.48	24.84	22.84	22.73	22.72	26.45	26.54	26.16	23.46	23.43	23.78
		1	1	28.20	28.12	27.48	25.35	25.49	25.14	27.27	27.61	27.60	24.49	24.22	24.95
		1	160	27.91	27.51	26.96	25.13	25.43	25.00	27.51	27.83	27.25	24.38	24.85	24.20
		1	161	25.51	25.29	24.36	22.81	22.79	22.45	26.29	26.83	26.30	23.46	23.93	23.47
		81	40	27.72	27.51	26.86	24.94	25.04	24.94	27.17	27.68	27.19	24.11	24.31	24.55
		162	0	26.90	26.56	25.88	23.98	24.16	24.01	26.20	26.63	26.16	23.17	23.29	23.51
	64QAM	1	0	25.55	25.53	24.83	23.00	23.10	23.28	25.67	25.73	25.74	22.37	22.77	23.33
		1	1	26.20	26.37	25.63	23.65	23.63	24.15	25.94	25.98	25.90	22.97	22.98	23.34
		1	160	26.37	26.07	25.56	23.70	23.98	23.45	25.76	25.97	25.36	22.84	23.06	23.18
		1	161	25.26	24.88	24.37	22.77	22.76	22.56	25.75	25.86	25.69	22.67	23.32	23.09
		81	40	26.27	25.90	25.23	23.44	23.56	23.50	25.66	26.11	25.63	22.50	22.82	22.95
		162	0	26.35	25.97	25.33	23.45	23.61	23.44	25.63	26.11	25.62	22.58	22.80	23.00
	256QAM	1	0	24.37	24.46	23.38	21.73	21.61	21.73	23.51	23.69	23.30	20.61	20.14	21.14
		1	1	24.44	24.13	23.52	21.81	21.63	21.77	23.61	23.65	23.56	20.49	20.35	21.11
		1	160	24.16	23.66	23.09	21.15	21.54	21.50	23.47	24.18	23.46	20.64	21.35	20.72
		1	161	24.15	23.50	23.28	21.51	21.67	21.05	23.43	24.41	23.17	20.67	20.96	20.48
		81	40	24.28	23.83	23.22	21.46	21.69	21.56	23.66	24.11	23.60	20.41	20.71	20.90
		162	0	24.26	23.84	23.28	21.45	21.61	21.53	23.66	24.10	23.63	20.46	20.77	20.87

OUTPUT POWER FOR 5G NR n77 (70.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				649000	656000	663000	649000	656000	663000	649000	656000	663000	649000	656000	663000
70.0	BPSK	1	0	25.05	25.23	25.44	22.39	22.48	22.79	25.21	25.23	24.47	24.57	24.70	25.30
		1	1	28.35	28.46	28.59	25.82	25.80	25.88	28.62	28.62	27.89	24.75	24.81	25.50
		1	187	28.57	28.49	28.38	25.71	25.77	25.59	28.42	27.63	27.33	24.97	25.44	24.76
		1	188	25.25	25.36	25.12	22.28	22.59	22.32	24.95	24.15	23.99	24.56	24.99	24.62
		90	45	28.49	28.49	28.59	25.60	25.93	25.69	28.56	28.24	27.29	24.76	24.99	25.32
		180	0	28.18	28.30	28.40	25.46	25.59	25.49	28.35	28.00	27.21	24.58	24.80	25.02
	QPSK	1	0	25.13	25.31	25.40	22.70	22.51	22.60	25.38	25.44	24.82	24.03	24.11	24.70
		1	1	28.45	28.32	28.64	25.96	26.00	25.99	28.33	28.70	27.93	24.72	24.80	25.42
		1	187	28.60	28.70	28.49	25.68	25.86	25.44	28.41	27.68	27.24	24.99	25.18	24.84
		1	188	25.31	25.33	25.16	22.57	22.59	22.39	25.26	24.37	24.06	24.38	24.48	24.23
		90	45	28.41	28.28	28.60	25.62	25.83	25.89	28.37	28.27	27.29	24.78	24.99	25.26
		180	0	27.69	27.80	27.88	24.93	25.05	25.02	27.77	27.53	26.69	24.11	24.30	24.49
	16QAM	1	0	25.56	25.54	25.66	22.84	22.89	22.85	25.64	25.68	25.01	23.31	23.42	23.53
		1	1	27.76	28.09	28.01	25.64	25.60	25.56	28.01	28.20	27.34	24.23	24.43	24.88
		1	187	28.09	28.38	27.95	25.50	25.21	25.02	27.67	27.03	26.84	24.36	24.61	24.43
		1	188	25.63	25.39	25.48	22.76	22.62	22.45	25.25	24.76	24.36	23.65	23.80	23.25
		90	45	27.64	27.60	27.88	24.94	25.18	24.99	27.75	27.59	26.67	24.07	24.17	24.55
		180	0	26.76	26.77	26.85	24.00	24.07	24.00	26.84	26.55	25.77	23.06	23.24	23.46
	64QAM	1	0	25.17	25.61	25.67	22.62	22.96	22.87	25.33	25.42	24.85	22.71	22.97	23.07
		1	1	26.23	26.39	26.56	24.08	23.39	23.56	26.30	26.69	25.71	22.72	23.01	23.52
		1	187	26.41	26.53	26.50	23.49	23.80	23.29	26.05	25.68	25.11	23.33	23.07	22.80
		1	188	25.54	25.65	25.21	22.75	22.70	22.25	25.32	24.81	24.20	22.69	23.08	22.81
		90	45	26.19	26.29	26.34	23.51	23.70	23.61	26.42	26.04	25.11	22.53	22.71	23.10
		180	0	26.16	26.30	26.33	23.44	23.56	23.57	26.30	25.98	25.19	22.55	22.77	23.11
	256QAM	1	0	24.11	24.06	24.42	21.78	21.75	21.50	24.25	24.47	23.68	20.43	20.30	21.22
		1	1	24.07	24.14	24.26	21.40	21.46	21.82	24.25	24.47	23.91	20.39	20.60	20.78
		1	187	24.44	24.31	24.15	21.24	21.60	21.31	24.11	23.39	23.14	20.68	21.15	20.62
		1	188	24.30	24.37	24.07	21.48	21.65	21.00	23.94	23.66	23.11	20.91	20.91	20.67
		90	45	24.27	24.20	24.35	21.38	21.58	21.60	24.23	23.99	23.01	20.48	20.63	21.10
		180	0	24.15	24.17	24.33	21.48	21.66	21.55	24.22	23.94	23.14	20.61	20.64	21.00

OUTPUT POWER FOR 5G NR n77 (80.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				649333	656000	662666	649333	656000	662666	649333	656000	662666	649333	656000	662666
80.0	BPSK	1	0	24.97	24.97	25.22	22.39	22.48	22.79	25.16	25.26	24.62	24.74	24.76	25.31
		1	1	28.12	28.31	28.52	25.82	25.80	25.88	28.42	28.62	27.99	25.13	24.94	25.47
		1	215	28.37	28.40	28.40	25.71	25.77	25.59	28.48	27.33	27.28	25.07	25.39	24.92
		1	216	25.34	25.28	25.15	22.28	22.59	22.32	24.99	24.33	23.90	25.16	25.13	24.80
		108	54	28.43	28.36	28.47	25.60	25.93	25.69	28.61	28.12	27.23	25.05	25.14	25.50
		216	0	28.18	28.23	28.27	25.46	25.59	25.49	28.26	27.89	27.18	24.91	24.97	25.21
	QPSK	1	0	24.93	24.93	25.26	22.70	22.51	22.60	25.10	25.16	24.64	24.20	24.28	24.81
		1	1	28.18	28.25	28.70	25.96	26.00	25.99	28.57	28.70	27.87	25.19	25.06	25.40
		1	215	28.48	28.51	28.39	25.68	25.86	25.44	27.93	27.37	27.35	25.15	25.49	25.19
		1	216	25.22	25.40	25.13	22.57	22.59	22.39	24.80	24.17	23.77	24.56	24.77	24.31
		108	54	28.38	28.15	28.47	25.62	25.83	25.89	28.34	28.10	27.22	25.01	25.18	25.50
		216	0	27.62	27.70	27.76	24.93	25.05	25.02	27.64	27.38	26.62	24.31	24.49	24.71
	16QAM	1	0	25.23	25.30	25.65	22.84	22.89	22.85	25.38	25.36	25.17	23.53	23.56	24.03
		1	1	27.71	27.87	28.02	25.64	25.60	25.56	27.73	27.95	27.32	24.38	24.53	25.17
		1	215	28.02	28.05	27.79	25.50	25.21	25.02	27.53	26.96	26.88	24.66	24.57	24.48
		1	216	25.26	25.52	25.23	22.76	22.62	22.45	25.26	24.41	24.09	23.43	23.91	23.48
		108	54	27.63	27.57	27.75	24.94	25.18	24.99	27.64	27.36	26.53	24.29	24.45	24.83
		216	0	26.61	26.69	26.70	24.00	24.07	24.00	26.65	26.32	25.61	23.30	23.43	23.74
	64QAM	1	0	25.32	25.23	25.37	22.62	22.96	22.87	25.73	25.35	24.74	22.64	23.19	23.40
		1	1	26.11	26.33	26.30	24.08	23.39	23.56	26.29	26.52	25.83	22.74	22.96	23.34
		1	215	26.76	26.41	26.24	23.49	23.80	23.29	26.04	25.32	24.97	23.34	23.56	22.87
		1	216	25.46	25.42	25.49	22.75	22.70	22.25	24.83	24.38	23.72	23.02	22.89	23.13
		108	54	26.18	26.09	26.25	23.51	23.70	23.61	26.20	25.83	24.95	22.84	22.87	23.29
		216	0	26.17	26.22	26.22	23.44	23.56	23.57	26.12	25.80	25.06	22.80	22.91	23.23
	256QAM	1	0	24.09	23.82	24.68	21.78	21.75	21.50	24.31	24.10	23.98	21.07	20.79	21.41
		1	1	23.87	23.85	24.34	21.40	21.46	21.82	24.11	24.30	23.55	20.42	20.99	21.23
		1	215	24.30	24.56	24.15	21.24	21.60	21.31	23.94	22.86	22.66	20.86	20.75	20.82
1		216	24.13	24.33	24.04	21.48	21.65	21.00	23.77	23.35	22.81	20.83	21.02	20.89	
108		54	24.12	24.04	24.21	21.38	21.58	21.60	24.08	23.74	22.89	20.76	20.78	21.32	
216		0	24.11	24.09	24.22	21.48	21.66	21.55	24.08	23.71	23.00	20.73	20.85	21.11	

OUTPUT POWER FOR 5G NR n77 (90.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				649666	656000	662333	649666	656000	662333	649666	656000	662333	649666	656000	662333
90.0	BPSK	1	0	24.88	25.01	25.08	22.69	22.40	22.52	25.22	25.21	24.86	24.41	24.86	25.13
		1	1	28.12	28.16	28.47	25.94	25.86	25.91	28.67	28.61	28.01	24.71	25.14	25.27
		1	243	28.34	28.58	28.43	25.92	25.86	25.64	28.10	27.75	27.51	24.86	25.44	25.11
		1	244	24.95	25.24	25.02	22.61	22.75	22.59	24.86	24.46	24.47	24.80	25.07	24.81
		120	60	28.29	28.31	28.44	25.69	25.93	25.85	28.49	28.23	27.50	24.96	25.03	25.39
		243	0	28.07	28.13	28.24	25.53	25.66	25.70	28.25	28.00	27.38	24.76	24.92	25.13
	QPSK	1	0	24.78	24.93	25.25	22.88	22.62	22.74	25.20	25.46	24.86	24.31	24.30	24.92
		1	1	28.30	28.22	28.47	25.94	25.67	25.86	28.47	28.70	28.13	24.89	24.94	25.41
		1	243	28.55	28.70	28.37	25.75	26.00	25.68	28.31	27.65	27.67	24.97	25.42	25.19
		1	244	25.24	25.44	25.17	22.52	22.75	22.39	24.96	24.61	24.09	24.22	24.44	24.27
		120	60	28.30	28.13	28.45	25.71	25.88	25.98	28.26	28.27	27.52	24.96	25.02	25.50
		243	0	27.51	27.59	27.73	25.06	25.13	25.11	27.76	27.53	26.85	24.21	24.34	24.62
	16QAM	1	0	25.07	25.26	25.41	22.76	22.80	22.96	25.43	25.86	24.92	23.28	23.75	23.70
		1	1	27.77	27.64	27.84	25.22	25.38	25.69	27.97	28.14	27.52	24.52	24.35	24.82
		1	243	28.00	28.04	27.85	25.38	25.57	25.58	27.93	27.40	27.17	24.40	24.94	24.45
		1	244	25.36	25.27	25.47	22.84	23.29	22.68	25.13	24.51	24.15	23.86	23.83	23.46
		120	60	27.58	27.55	27.72	24.94	25.26	25.25	27.62	27.60	26.71	24.22	24.41	24.75
		243	0	26.64	26.64	26.72	24.04	24.11	24.14	26.69	26.55	25.79	23.25	23.34	23.58
	64QAM	1	0	25.12	25.23	25.37	22.87	22.61	22.38	25.69	25.42	25.41	22.85	23.08	22.97
		1	1	26.30	26.10	26.34	23.91	23.33	23.75	26.93	26.64	26.05	23.12	22.63	23.36
		1	243	26.51	26.15	26.58	24.29	24.08	23.81	26.19	25.95	25.21	23.26	23.18	23.08
		1	244	25.30	25.61	25.21	22.95	23.06	22.70	25.33	24.26	24.50	22.76	23.40	22.86
		120	60	26.07	26.03	26.16	23.50	23.69	23.69	26.25	26.05	25.23	22.69	22.82	23.16
		243	0	26.11	26.15	26.14	23.59	23.75	23.69	26.18	25.98	25.32	22.77	22.86	23.04
	256QAM	1	0	23.82	23.95	24.17	21.69	21.53	21.92	24.47	24.45	23.81	20.62	20.63	21.08
		1	1	23.66	23.98	24.17	21.31	21.66	21.72	24.17	24.62	23.86	20.80	20.76	20.60
		1	243	23.90	24.20	24.16	21.57	21.37	21.41	23.98	23.63	23.13	20.74	21.27	21.11
1		244	24.01	24.28	24.20	21.49	21.65	21.22	23.91	23.27	23.13	20.80	21.52	20.69	
120		60	24.09	23.97	24.22	21.44	21.67	21.70	24.19	23.95	23.16	20.75	20.80	21.21	
243		0	24.02	24.08	24.18	21.54	21.71	21.61	24.14	23.85	23.26	20.77	20.79	20.99	

OUTPUT POWER FOR 5G NR n77 (100.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				650000	656000	662000	650000	656000	662000	650000	656000	662000	650000	656000	662000
100.0	BPSK	1	0	24.89	24.82	25.26	22.48	22.26	22.33	25.43	25.53	24.74	25.13	24.68	24.91
		1	1	28.17	28.10	28.51	25.92	25.74	25.77	28.59	28.48	28.10	25.27	25.19	25.07
		1	271	28.38	28.70	28.50	25.78	25.79	25.87	28.34	28.11	27.49	25.11	25.47	24.87
		1	272	24.88	25.33	25.19	22.53	22.68	22.48	25.22	24.76	24.26	24.81	25.33	24.90
		135	67	28.38	28.32	28.51	25.66	25.83	25.80	28.69	28.25	27.58	25.39	25.04	25.49
		270	0	28.16	28.09	28.25	25.46	25.58	25.62	28.43	28.09	27.49	25.13	24.92	25.14
	QPSK	1	0	25.14	24.94	25.12	22.69	22.50	22.56	25.43	25.46	24.74	24.92	24.28	24.71
		1	1	28.07	28.23	28.66	25.80	25.73	25.80	28.59	28.62	28.04	25.41	24.75	25.32
		1	271	28.25	28.61	28.33	25.62	26.00	25.79	28.70	28.14	27.57	25.19	25.46	25.21
		1	272	25.02	25.44	25.21	22.59	22.62	22.52	25.38	24.74	24.25	24.27	24.72	24.48
		135	67	28.40	28.32	28.52	25.63	25.86	25.79	28.59	28.30	27.64	25.50	25.10	25.44
		270	0	27.58	27.60	27.75	24.97	25.04	25.07	27.86	27.57	27.00	24.62	24.43	24.70
	16QAM	1	0	25.04	25.27	25.63	22.82	22.73	22.71	25.48	25.39	24.70	23.70	23.29	23.88
		1	1	27.84	27.61	28.06	24.99	25.26	25.22	27.85	28.03	28.00	24.82	24.53	24.81
		1	271	27.90	28.01	27.99	25.49	25.24	24.76	27.82	27.41	26.96	24.45	25.12	24.49
		1	272	25.16	25.43	25.23	22.76	22.81	22.91	25.27	24.82	24.40	23.46	23.94	23.75
		135	67	27.64	27.55	27.74	24.94	25.12	25.09	27.74	27.56	26.87	24.75	24.39	24.72
		270	0	26.61	26.59	26.70	23.94	24.06	24.10	26.87	26.59	26.02	23.58	23.39	23.58
	64QAM	1	0	25.17	25.16	25.33	23.10	22.73	22.77	25.62	25.18	25.15	22.97	22.76	22.82
		1	1	26.01	26.16	26.42	23.72	23.63	23.66	26.85	26.32	25.74	23.36	22.50	23.18
		1	271	26.05	26.51	26.28	23.71	23.60	23.90	26.44	25.51	25.30	23.08	23.16	22.63
		1	272	25.50	25.35	25.62	22.57	22.97	22.74	25.20	24.99	24.31	22.86	23.79	22.93
		135	67	26.19	26.11	26.17	23.37	23.61	23.54	26.38	26.04	25.36	23.16	22.81	23.25
		270	0	26.14	26.17	26.21	23.41	23.50	23.54	26.35	26.03	25.38	23.04	22.86	23.09
	256QAM	1	0	23.66	23.60	24.30	21.25	21.54	21.40	24.33	24.39	23.90	21.08	20.64	20.92
		1	1	24.01	23.96	24.25	21.87	21.56	21.20	24.69	24.21	23.89	20.60	20.59	21.07
		1	271	24.07	24.29	24.27	21.08	21.58	21.43	24.44	23.59	23.25	21.11	20.99	20.83
		1	272	24.08	24.16	24.31	21.63	21.73	21.58	23.85	23.41	23.28	20.69	21.11	21.06
		135	67	24.09	24.03	24.23	21.35	21.54	21.48	24.30	24.00	23.24	21.21	20.77	21.27
		270	0	24.12	24.15	24.23	21.39	21.57	21.48	24.30	23.99	23.38	20.99	20.81	21.12

9. CONDUCTED TEST RESULTS

9.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only.

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the middle channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

RESULTS

There is no limit required and power is the same for low, middle and high channel; therefore, only middle channel was tested except 5G NR n70 where mix of middle/high channels are used. Worst-case plots (highest bandwidth) are reported only.

LTE BAND 5

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 5	1.4MHz, QPSK	6/0	836.5	1.093	1.31
	1.4MHz, 16QAM			1.096	1.37
	3MHz, QPSK	15/0		2.704	3.04
	3MHz, 16QAM			2.708	3.07
	5MHz, QPSK	25/0		4.499	5.14
	5MHz, 16QAM			4.514	5.08
	10MHz, QPSK	50/0		8.986	10.04
	10MHz, 16QAM			8.966	9.96
	10MHz, QPSK	1/0		0.328	0.538

5G NR n5

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n5	15MHz, BPSK	75/0	836.5	13.418	14.26
	15MHz, QPSK			13.433	14.23
	15MHz, 16QAM			13.431	14.30
	20MHz, BPSK	100/0		17.835	18.79
	20MHz, QPSK			17.849	18.88
	20MHz, 16QAM			17.810	18.95
	20MHz, BPSK	1/0		0.287	0.473

LTE BAND 7

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 7	5MHz, QPSK	25/0	2535.0	4.493	5.11
	5MHz, 16QAM			4.499	5.08
	10MHz, QPSK	50/0		9.011	9.99
	10MHz, 16QAM			8.993	9.98
	15MHz, QPSK	75/0		13.476	14.88
	15MHz, 16QAM			13.475	14.85
	20MHz, QPSK	100/0		17.934	19.72
	20MHz, 16QAM			17.987	19.69
	20MHz, QPSK	1/0		0.277	0.466

5G NR n7

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n7	5MHz, BPSK	25/0	2535.0	4.517	5.17
	5MHz, QPSK			4.495	5.07
	5MHz, 16QAM			4.477	5.06
	10MHz, BPSK	50/0		8.979	9.59
	10MHz, QPSK			8.948	9.64
	10MHz, 16QAM			8.968	9.62
	15MHz, BPSK	75/0		13.474	14.33
	15MHz, QPSK			13.483	14.14
	15MHz, 16QAM			13.411	14.18
	20MHz, BPSK	100/0		17.933	18.93
	20MHz, QPSK			17.710	18.87
	20MHz, 16QAM			17.850	18.76
	25MHz, BPSK	128/0		22.949	24.00
	25MHz, QPSK			22.861	23.92
	25MHz, 16QAM			22.857	23.92
	30MHz, BPSK	160/0		28.641	29.80
	30MHz, QPSK			28.505	29.93
	30MHz, 16QAM			28.508	29.92
	40MHz, BPSK	216/0		38.665	40.24
	40MHz, QPSK			38.526	40.30
40MHz, 16QAM	38.519		40.40		
40MHz, BPSK	1/0	0.315	0.524		

LTE BAND 12

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 12	1.4MHz, QPSK	6/0	707.5	1.092	1.34
	1.4MHz, 16QAM			1.092	1.38
	3MHz, QPSK	15/0		2.701	3.06
	3MHz, 16QAM			2.709	3.06
	5MHz, QPSK	25/0		4.504	5.14
	5MHz, 16QAM			4.495	5.06
	10MHz, QPSK	50/0		8.966	9.90
	10MHz, 16QAM			8.979	9.89
	10MHz, QPSK	1/0		0.247	0.419

5G NR n12

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n12	5MHz, BPSK	25/0	707.5	4.478	4.98
	5MHz, QPSK			4.465	5.02
	5MHz, 16QAM			4.486	5.06
	10MHz, BPSK	50/0		8.922	9.47
	10MHz, QPSK			8.891	9.41
	10MHz, 16QAM			8.909	9.52
	15MHz, BPSK	75/0		13.430	14.17
	15MHz, QPSK			13.405	13.99
	15MHz, 16QAM			13.404	13.99
	15MHz, BPSK	1/0		0.305	0.494

LTE BAND 13

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 13	5MHz, QPSK	25/0	782.0	4.504	5.08
	5MHz, 16QAM			4.505	5.13
	10MHz, QPSK	50/0		8.958	9.86
	10MHz, 16QAM			8.962	9.90
	10MHz, QPSK	1/0		0.258	0.428

LTE BAND 14

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 14	5MHz, QPSK	25/0	793.0	4.489	5.07
	5MHz, 16QAM			4.503	5.14
	10MHz, QPSK	50/0		8.959	9.95
	10MHz, 16QAM			8.983	9.92
	10MHz, QPSK	1/0		0.244	0.429

5G NR n14

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n14	5MHz, BPSK	25/0	793.0	4.494	4.96
	5MHz, QPSK			4.497	5.16
	5MHz, 16QAM			4.496	5.09
	10MHz, BPSK	50/0		8.997	9.53
	10MHz, QPSK			8.914	9.31
	10MHz, 16QAM			8.977	9.40
	10MHz, BPSK	1/0		0.279	0.438

LTE BAND 17

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 17	5MHz, QPSK	25/0	710.0	4.496	5.17
	5MHz, 16QAM			4.505	5.08
	10MHz, QPSK	50/0		8.980	10.04
	10MHz, 16QAM			8.980	9.85
	10MHz, QPSK	1/0		0.240	0.394

LTE BAND 25

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 25	1.4MHz, QPSK	6/0	1882.5	1.095	1.32
	1.4MHz, 16QAM			1.097	1.38
	3MHz, QPSK	15/0		2.701	3.04
	3MHz, 16QAM			2.703	3.07
	5MHz, QPSK	25/0		4.504	5.18
	5MHz, 16QAM			4.508	5.12
	10MHz, QPSK	50/0		9.005	9.97
	10MHz, 16QAM			8.990	8.99
	15MHz, QPSK	75/0		13.481	14.74
	15MHz, 16QAM			13.481	14.85
	20MHz, QPSK	100/0		17.881	18.67
	20MHz, 16QAM			17.952	19.52
	20MHz, QPSK	1/0		0.287	0.495

5G NR n25

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n25	5MHz, BPSK	25/0	1882.5	4.527	5.13
	5MHz, QPSK			4.498	5.12
	5MHz, 16QAM			4.497	5.07
	10MHz, BPSK	50/0		8.970	9.62
	10MHz, QPSK			8.953	9.82
	10MHz, 16QAM			8.946	9.62
	15MHz, BPSK	75/0		13.463	14.22
	15MHz, QPSK			13.421	14.25
	15MHz, 16QAM			13.399	14.25
	20MHz, BPSK	100/0		17.873	18.81
	20MHz, QPSK			17.916	18.89
	20MHz, 16QAM			17.898	18.84
	25MHz, BPSK	128/0		22.894	24.02
	25MHz, QPSK			22.950	24.00
	25MHz, 16QAM			22.860	23.98
	30MHz, BPSK	160/0		28.668	29.86
	30MHz, QPSK			28.536	29.85
	30MHz, 16QAM			28.564	29.91
	40MHz, BPSK	216/0		38.679	40.34
40MHz, QPSK	38.575		40.28		
40MHz, 16QAM	38.569		40.26		
40MHz, BPSK	1/0	0.324	0.572		

LTE BAND 26 (FCC PART 90S)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 26	1.4MHz, QPSK	6/0	819.0	1.090	1.31
	1.4MHz, 16QAM			1.064	1.34
	3MHz, QPSK	15/0		2.704	3.05
	3MHz, 16QAM			2.707	3.04
	5MHz, QPSK	25/0		4.502	5.13
	5MHz, 16QAM			4.500	5.10
	10MHz, QPSK	50/0		8.959	10.00
	10MHz, 16QAM			8.984	9.99
	10MHz, QPSK	1/0		0.243	0.397

5G NR n26 (FCC PART 90S)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n26 (FCC Part 90S)	5MHz, BPSK	25/0	819.0	4.480	4.81
	5MHz, QPSK			4.479	4.79
	5MHz, 16QAM			4.470	4.78
	10MHz, BPSK	50/0		8.935	9.39
	10MHz, QPSK			8.921	9.35
	10MHz, 16QAM			8.928	9.35
	10MHz, BPSK	1/0		0.272	0.420

LTE BAND 30

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 30	5MHz, QPSK	25/0	2310.0	4.506	5.11
	5MHz, 16QAM			4.505	5.16
	10MHz, QPSK	50/0		8.991	9.98
	10MHz, 16QAM			9.004	10.04
	10MHz, QPSK	1/0		0.244	0.378

5G NR n30

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n30	5MHz, BPSK	25/0	2310.0	4.507	4.91
	5MHz, QPSK			4.473	5.05
	5MHz, 16QAM			4.483	4.98
	10MHz, BPSK	50/0		8.955	9.53
	10MHz, QPSK			8.935	9.36
	10MHz, 16QAM			8.931	9.52
	10MHz, BPSK			1/0	0.294

LTE BAND 41

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 41	5MHz, QPSK	25/0	2593.0	4.489	5.10
	5MHz, 16QAM			4.492	5.08
	10MHz, QPSK	50/0		8.970	10.47
	10MHz, 16QAM			8.998	9.80
	15MHz, QPSK	75/0		13.467	15.88
	15MHz, 16QAM			13.455	14.80
	20MHz, QPSK	100/0		17.945	19.72
	20MHz, 16QAM			17.890	20.69
	20MHz, QPSK	1/0		0.269	0.436

5G NR n41

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n41	20MHz, BPSK	50/0	2593.0	17.928	18.77
	20MHz, QPSK			17.901	18.73
	20MHz, 16QAM			17.870	18.82
	30MHz, BPSK	75/0		26.822	28.27
	30MHz, QPSK			26.880	28.08
	30MHz, 16QAM			26.817	28.13
	40MHz, BPSK	100/0		35.765	37.47
	40MHz, QPSK			35.831	37.56
	40MHz, 16QAM			35.801	37.48
	50MHz, BPSK	128/0		45.832	47.95
	50MHz, QPSK			45.862	47.92
	50MHz, 16QAM			45.814	47.85
	60MHz, BPSK	162/0		57.982	60.50
	60MHz, QPSK			58.009	60.47
	60MHz, 16QAM			57.982	60.43
	70MHz, BPSK	180/0		64.440	67.35
	70MHz, QPSK			64.246	67.77
	70MHz, 16QAM			64.489	67.49
	80MHz, BPSK	216/0		77.254	80.67
	80MHz, QPSK			77.230	80.56
	80MHz, 16QAM			77.184	80.49
	90MHz, BPSK	243/0		86.794	90.43
	90MHz, QPSK			86.907	90.52
	90MHz, 16QAM			86.829	90.40
100MHz, BPSK	270/0	96.435	100.6		
100MHz, QPSK		96.537	100.6		
100MHz, 16QAM		96.465	100.5		
100MHz, BPSK	1/0	0.649	1.055		

LTE BAND 48

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 48	5MHz, QPSK	25/0	3625.0	4.473	4.85
	5MHz, 16QAM			4.481	5.29
	10MHz, QPSK	50/0		8.971	9.35
	10MHz, 16QAM			8.989	9.62
	15MHz, QPSK	75/0		13.308	14.02
	15MHz, 16QAM			13.484	14.32
	20MHz, QPSK	100/0		17.824	18.74
	20MHz, 16QAM			17.778	19.71
	20MHz, QPSK	1/0		0.284	0.382

5G NR n48

LTE BAND 66

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 66	1.4MHz, QPSK	6/0	1745.0	1.088	1.35
	1.4MHz, 16QAM			1.080	1.25
	3MHz, QPSK	15/0		2.692	2.91
	3MHz, 16QAM			2.701	2.90
	5MHz, QPSK	25/0		4.500	5.17
	5MHz, 16QAM			4.496	5.11
	10MHz, QPSK	50/0		8.988	10.00
	10MHz, 16QAM			9.016	10.05
	15MHz, QPSK	75/0		13.441	14.76
	15MHz, 16QAM			13.459	14.93
	20MHz, QPSK	100/0		17.938	19.55
	20MHz, 16QAM			17.938	19.52
	20MHz, QPSK	1/0		0.265	0.453

5G NR n66

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n66	5MHz, BPSK	25/0	1745.0	4.484	4.87
	5MHz, QPSK			4.476	4.74
	5MHz, 16QAM			4.475	4.75
	10MHz, BPSK	50/0		8.937	9.41
	10MHz, QPSK			8.933	9.42
	10MHz, 16QAM			8.918	9.38
	15MHz, BPSK	75/0		13.418	14.05
	15MHz, QPSK			13.412	14.05
	15MHz, 16QAM			13.412	14.04
	20MHz, BPSK	100/0		17.860	18.67
	20MHz, QPSK			17.891	18.73
	20MHz, 16QAM			17.864	18.72
	30MHz, BPSK	160/0		28.586	29.81
	30MHz, QPSK			28.558	29.80
	30MHz, 16QAM			28.561	29.82
	40MHz, BPSK	216/0		38.587	40.31
	40MHz, QPSK			38.557	40.28
	40MHz, 16QAM			38.564	40.29
40MHz, BPSK	1/0	0.304	0.507		

5G NR n70

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n70	5MHz, BPSK	25/0	1702.5	4.482	4.88
	5MHz, QPSK			4.476	4.78
	5MHz, 16QAM			4.474	4.78
	10MHz, BPSK	50/0		8.956	9.42
	10MHz, QPSK			8.935	9.41
	10MHz, 16QAM			8.942	9.37
	15MHz, BPSK	75/0		13.432	14.07
	15MHz, QPSK			13.399	14.02
	15MHz, 16QAM			13.386	14.04
	15MHz, BPSK	1/0		0.281	0.474

LTE BAND 71

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 71	5MHz, QPSK	25/0	680.5	4.494	5.07
	5MHz, 16QAM			4.507	5.11
	10MHz, QPSK	50/0	683	8.976	9.87
	10MHz, 16QAM			8.962	10.01
	15MHz, QPSK	75/0	680.5	13.430	14.78
	15MHz, 16QAM			13.437	14.84
	20MHz, QPSK	100/0	683	17.896	19.49
	20MHz, 16QAM			17.913	19.69
	20MHz, QPSK	1/0	680.5	0.271	0.463

5G NR n71

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n71	5MHz, BPSK	25/0	680.5	4.476	4.76
	5MHz, QPSK			4.469	4.75
	5MHz, 16QAM			4.476	4.76
	10MHz, BPSK	50/0	683	8.929	9.36
	10MHz, QPSK			8.924	9.36
	10MHz, 16QAM			8.912	9.36
	15MHz, BPSK	75/0	680.5	13.396	14.04
	15MHz, QPSK			13.401	14.03
	15MHz, 16QAM			13.381	14.01
	20MHz, BPSK	100/0	683	17.833	18.66
	20MHz, QPSK			17.831	18.69
	20MHz, 16QAM			17.810	18.68
	20MHz, BPSK			1/0	680.5

5G NR n77 (FCC Part 27 3450-3550MHz)

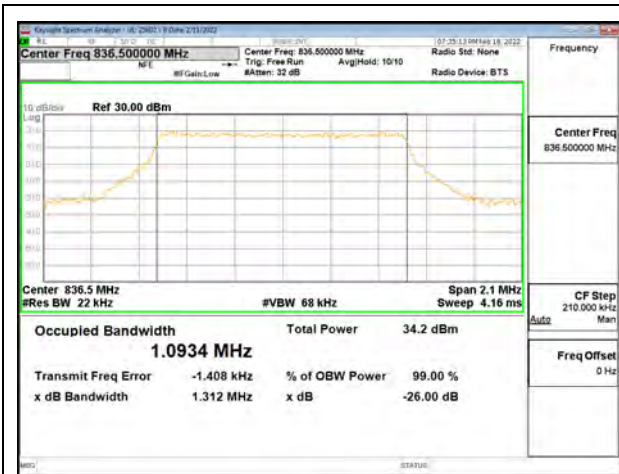
Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n77 (FCC Part 27 3450-3550MHz)	10MHz, BPSK	24/0	3500.0	8.694	10.11
	10MHz, QPSK			8.640	9.92
	10MHz, 16QAM			8.693	10.00
	15MHz, BPSK	36/0		13.010	14.57
	15MHz, QPSK			12.942	14.47
	15MHz, 16QAM			13.005	14.71
	20MHz, BPSK	50/0		17.878	18.74
	20MHz, QPSK			17.869	18.76
	20MHz, 16QAM			17.849	18.74
	30MHz, BPSK	75/0		26.832	28.05
	30MHz, QPSK			26.816	28.05
	30MHz, 16QAM			26.764	28.10
	40MHz, BPSK	100/0		35.654	37.40
	40MHz, QPSK			35.780	37.45
	40MHz, 16QAM			35.727	37.42
	50MHz, BPSK	128/0		45.716	47.88
	50MHz, QPSK			45.730	47.79
	50MHz, 16QAM			45.745	47.82
	60MHz, BPSK	162/0		57.907	60.46
	60MHz, QPSK			57.846	60.41
	60MHz, 16QAM			57.860	60.41
	70MHz, BPSK	180/0		64.285	67.12
	70MHz, QPSK			64.301	67.12
	70MHz, 16QAM			64.301	67.12
	80MHz, BPSK	216/0		77.151	80.51
	80MHz, QPSK			77.075	80.08
	80MHz, 16QAM			77.143	80.53
	90MHz, BPSK	243/0		86.769	90.43
	90MHz, QPSK			86.798	90.43
	90MHz, 16QAM			86.739	90.42
100MHz, BPSK	270/0	96.419	100.6		
100MHz, QPSK		96.385	100.5		
100MHz, 16QAM		96.398	100.6		
100MHz, BPSK	1/0	0.598	1.073		

5G NR n77(FCC Part 27 3700-3980MHz)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n77 (FCC Part 27 3700-3980MHz)	10MHz, BPSK	24/0	3840.0	8.659	9.85
	10MHz, QPSK			8.613	9.63
	10MHz, 16QAM			8.609	9.96
	15MHz, BPSK	36/0		12.910	14.25
	15MHz, QPSK			12.989	14.06
	15MHz, 16QAM			12.949	14.04
	20MHz, BPSK	50/0		17.937	18.90
	20MHz, QPSK			17.892	18.88
	20MHz, 16QAM			17.898	18.85
	30MHz, BPSK	75/0		26.855	28.23
	30MHz, QPSK			26.843	28.19
	30MHz, 16QAM			26.814	28.22
	40MHz, BPSK	100/0		35.751	37.55
	40MHz, QPSK			35.777	37.58
	40MHz, 16QAM			35.788	37.57
	50MHz, BPSK	128/0		45.819	48.14
	50MHz, QPSK			45.764	48.21
	50MHz, 16QAM			45.793	48.18
	60MHz, BPSK	162/0		57.935	60.56
	60MHz, QPSK			57.924	60.64
	60MHz, 16QAM			57.828	60.61
	70MHz, BPSK	180/0		64.566	68.17
	70MHz, QPSK			64.655	68.22
	70MHz, 16QAM			64.586	68.26
	80MHz, BPSK	216/0		77.376	81.39
	80MHz, QPSK			77.360	81.35
	80MHz, 16QAM			77.387	81.35
	90MHz, BPSK	243/0		87.125	91.97
	90MHz, QPSK			87.073	91.92
	90MHz, 16QAM			87.148	91.95
100MHz, BPSK	270/0	96.650	101.7		
100MHz, QPSK		96.634	101.7		
100MHz, 16QAM		96.747	101.7		
100MHz, BPSK	1/0	0.597	0.959		

9.1.1. LTE BAND 5 AND 5G NR n5

LTE BAND 5



LTE B5 1.4MHz QPSK Middle Channel RB6-0



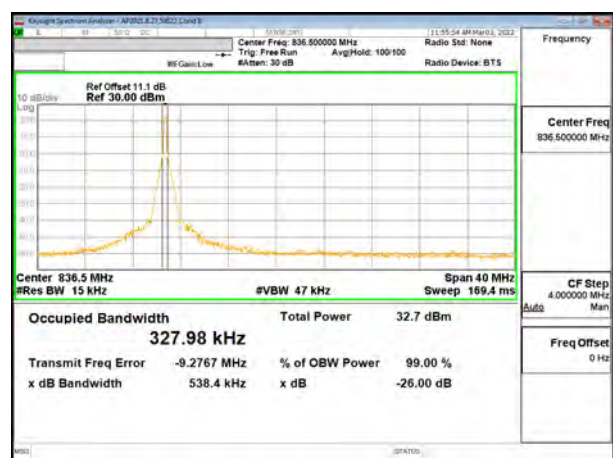
LTE B5 3MHz QPSK Middle Channel RB15-0



LTE B5 5MHz QPSK Middle Channel RB25-0

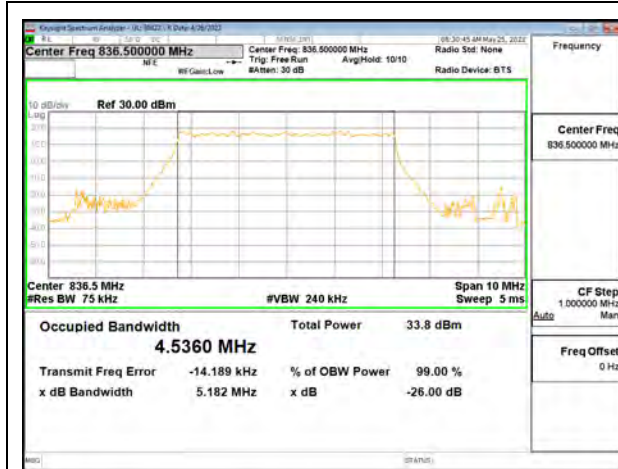


LTE B5 10MHz QPSK Middle Channel RB50-0



LTE B2626 10MHz QPSK Middle Channel RB1-0

5G NR n5



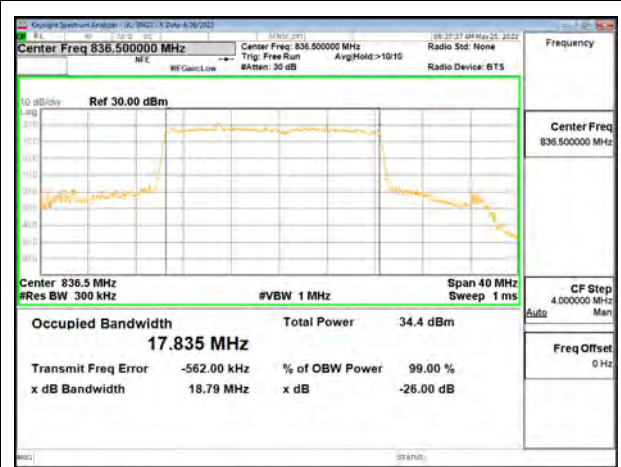
5G NR n5 5MHz BPSK Middle Channel RB25-0



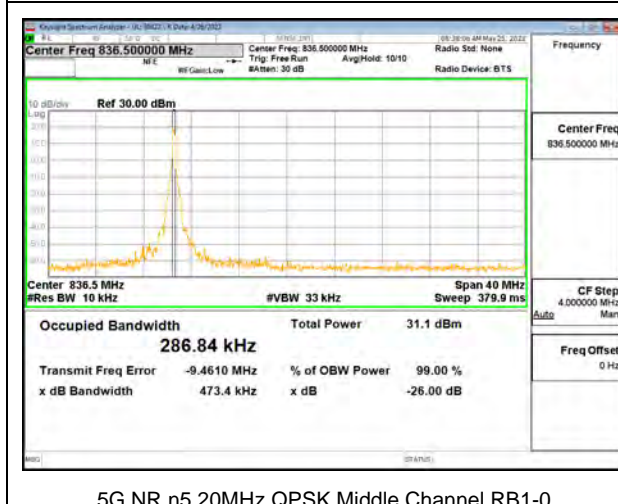
5G NR n5 10MHz BPSK Middle Channel RB50-0



5G NR n5 15MHz BPSK Middle Channel RB75-0



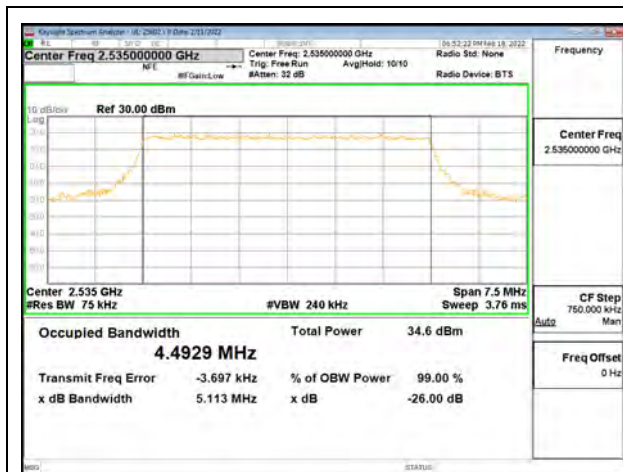
5G NR n5 20MHz BPSK Middle Channel RB100-0



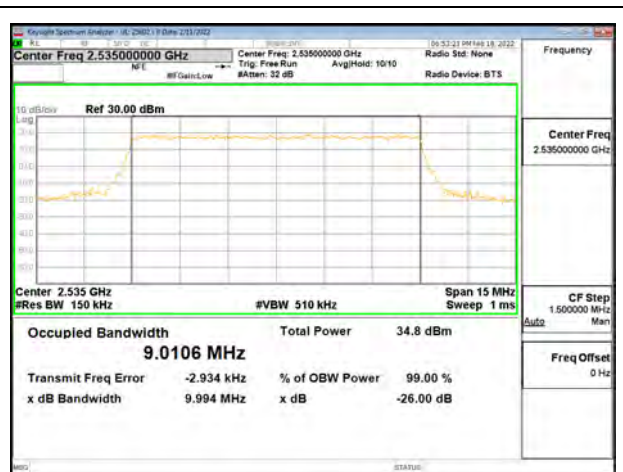
5G NR n5 20MHz QPSK Middle Channel RB1-0

9.1.2. LTE BAND 7 AND 5G NR n7

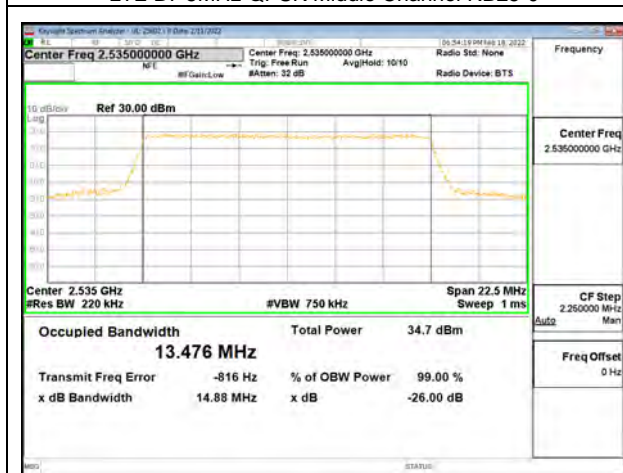
LTE BAND 7



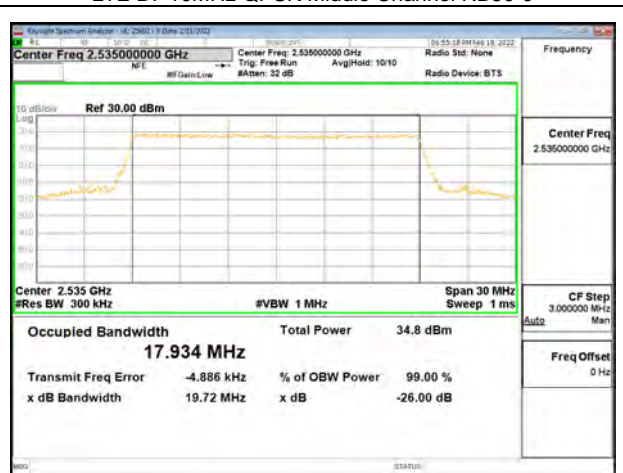
LTE B7 5MHz QPSK Middle Channel RB25-0



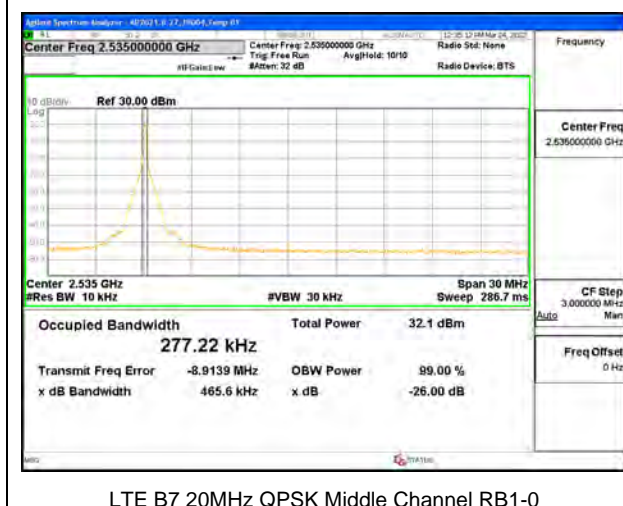
LTE B7 10MHz QPSK Middle Channel RB50-0



LTE B7 15MHz QPSK Middle Channel RB75-0



LTE B7 20MHz QPSK Middle Channel RB100-0



LTE B7 20MHz QPSK Middle Channel RB1-0

5G NR n7



5G NR n7 5MHz BPSK Middle Channel RB25-0



5G NR n7 10MHz BPSK Middle Channel RB50-0



5G NR n7 15MHz BPSK Middle Channel RB75-0



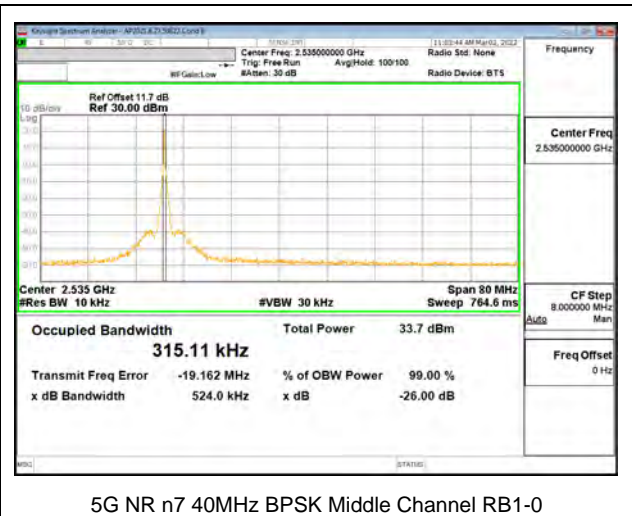
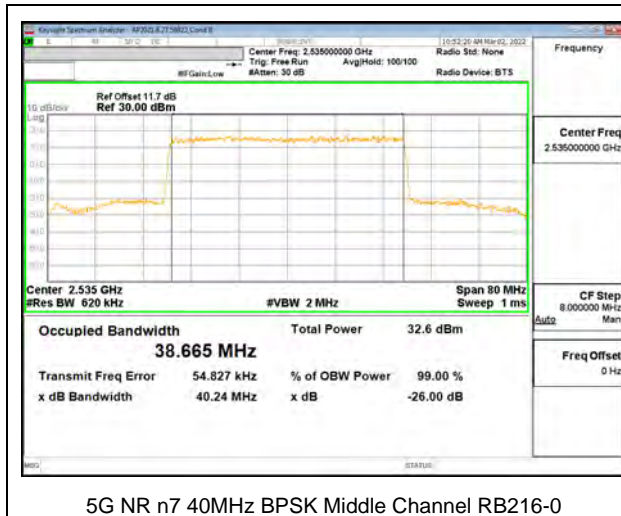
5G NR n7 20MHz BPSK Middle Channel RB100-0



5G NR n7 25MHz BPSK Middle Channel RB128-0

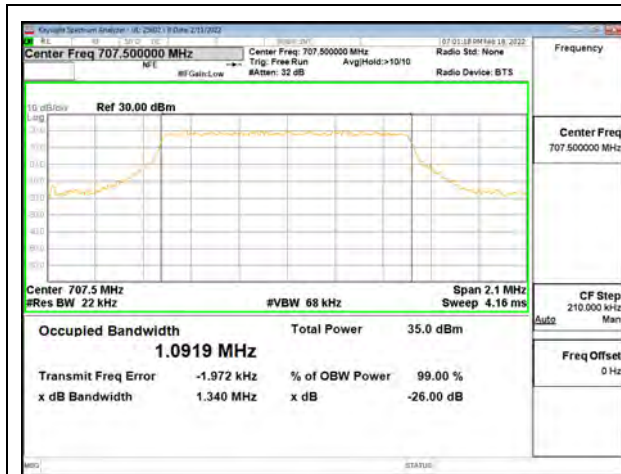


5G NR n7 30MHz BPSK Middle Channel RB160-0



9.1.3. LTE BAND 12 AND 5G NR n12

LTE BAND 12



LTE B12 1.4MHz QPSK Middle Channel RB6-0



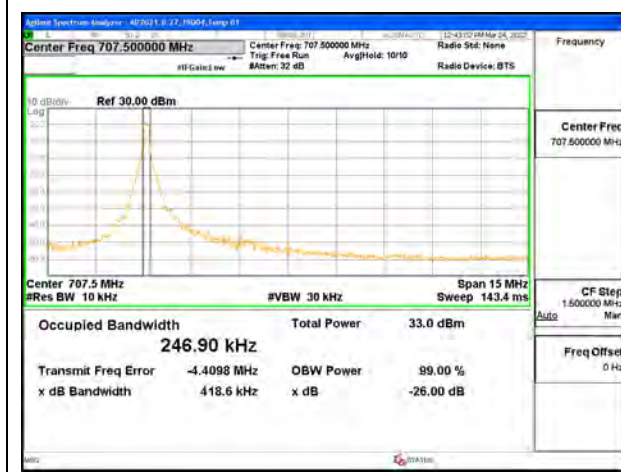
LTE B12 3MHz QPSK Middle Channel RB15-0



LTE B12 5MHz QPSK Middle Channel RB25-0



LTE B12 10MHz QPSK Middle Channel RB50-0



LTE B12 10MHz QPSK Middle Channel RB1-0

5G NR n12



5G NR n12 5MHz BPSK Middle Channel RB25-0



5G NR n12 10MHz BPSK Middle Channel RB50-0



5G NR n12 15MHz BPSK Middle Channel RB75-0

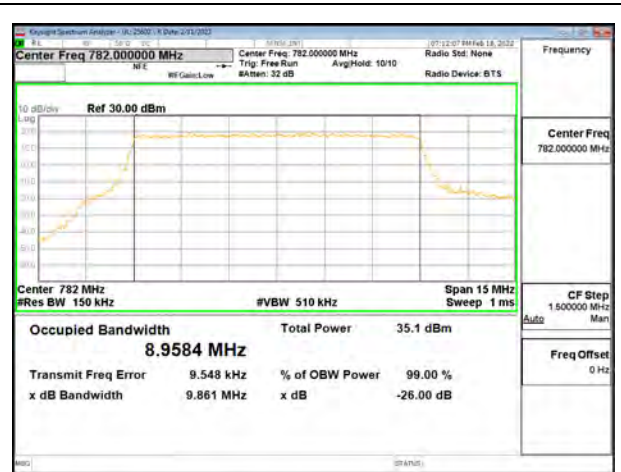


5G NR n12 15MHz BPSK Middle Channel RB1-0

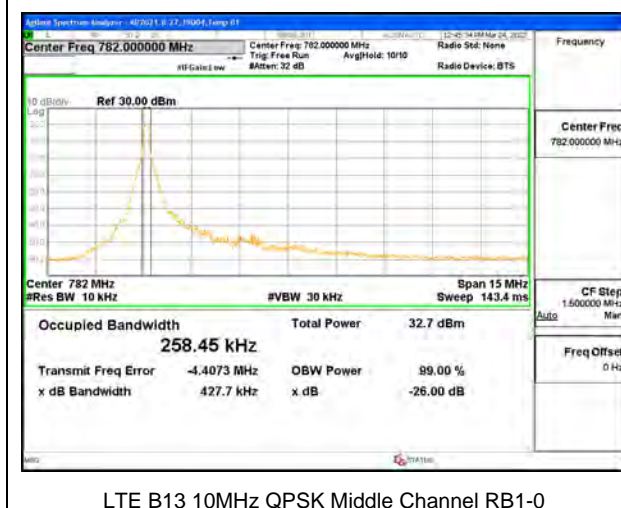
9.1.4. LTE BAND 13



LTE B13 5MHz QPSK Middle Channel RB25-0



LTE B13 10MHz QPSK Middle Channel RB50-0



LTE B13 10MHz QPSK Middle Channel RB1-0

9.1.5. LTE BAND 14 AND 5G NR n14

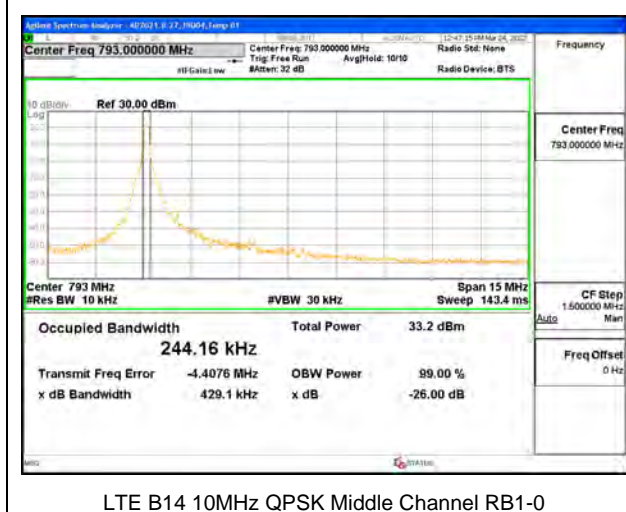
LTE BAND 14



LTE B14 5MHz QPSK Middle Channel RB25-0



LTE B14 10MHz QPSK Middle Channel RB50-0



LTE B14 10MHz QPSK Middle Channel RB1-0

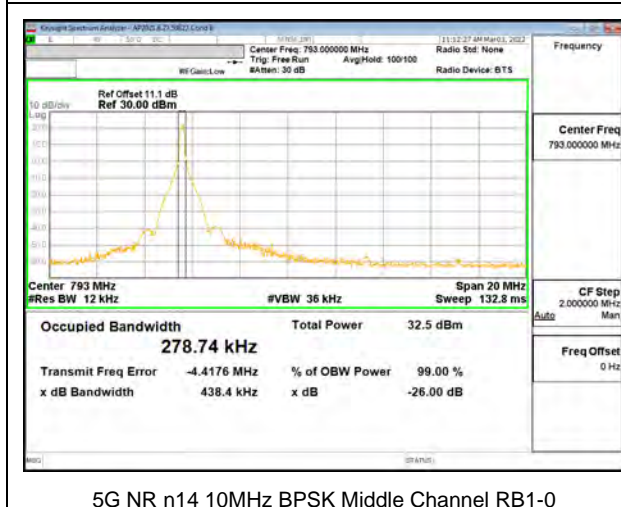
5G NR n14



5G NR n14 5MHz BPSK Middle Channel RB25-0



5G NR n14 10MHz BPSK Middle Channel RB50-0

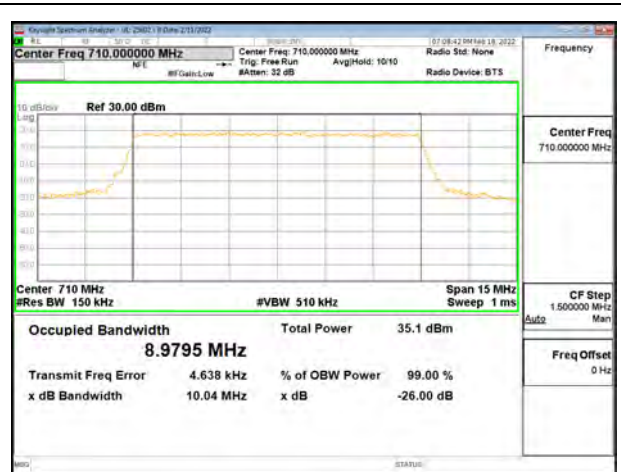


5G NR n14 10MHz BPSK Middle Channel RB1-0

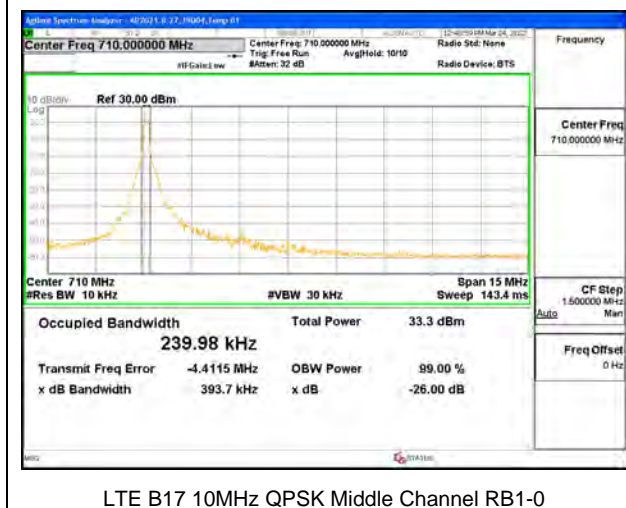
9.1.6. LTE BAND 17



LTE B17 5MHz QPSK Middle Channel RB25-0



LTE B17 10MHz QPSK Middle Channel RB50-0



LTE B17 10MHz QPSK Middle Channel RB1-0

9.1.7. LTE BAND 25 AND 5G NR n25

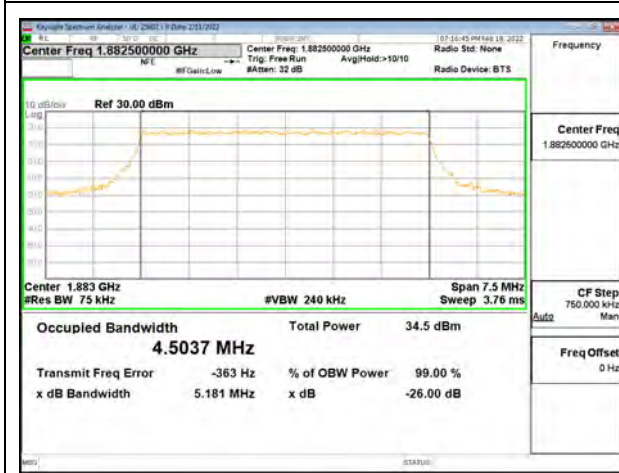
LTE BAND 25



LTE B25 1.4MHz QPSK Middle Channel RB6-0



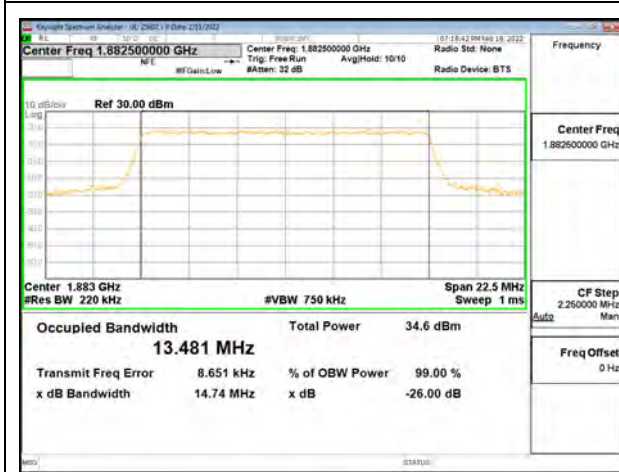
LTE B25 3MHz QPSK Middle Channel RB15-0



LTE B25 5MHz QPSK Middle Channel RB25-0



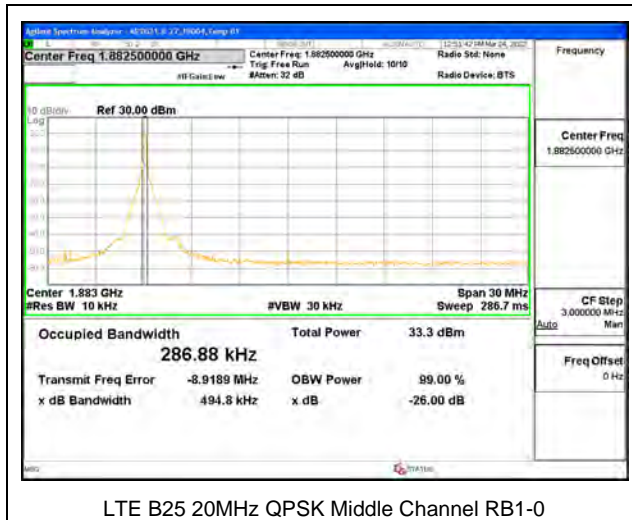
LTE B25 10MHz QPSK Middle Channel RB50-0



LTE B25 15MHz QPSK Middle Channel RB75-0



LTE B25 20MHz QPSK Middle Channel RB100-0

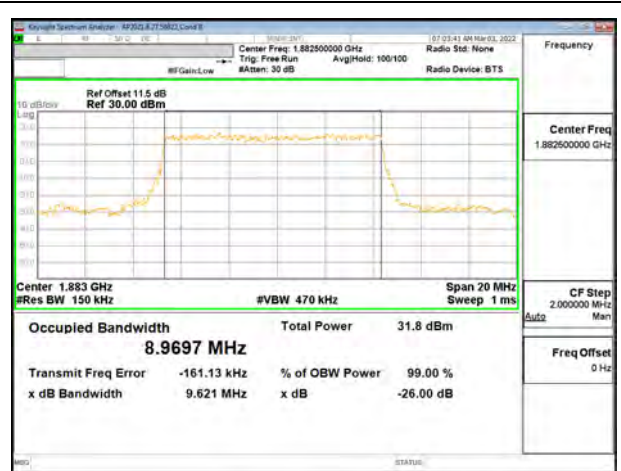


LTE B25 20MHz QPSK Middle Channel RB1-0

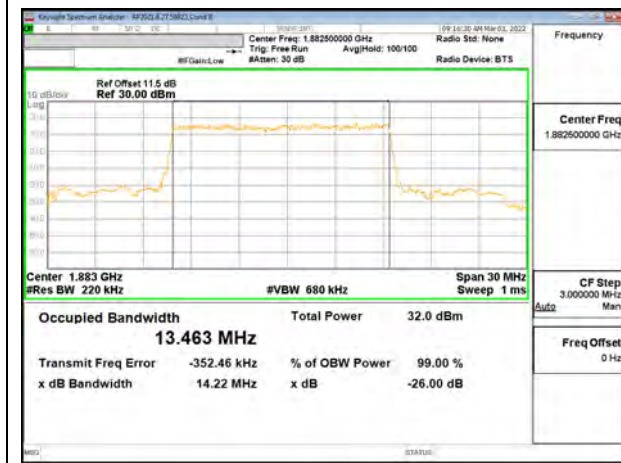
5G NR n25



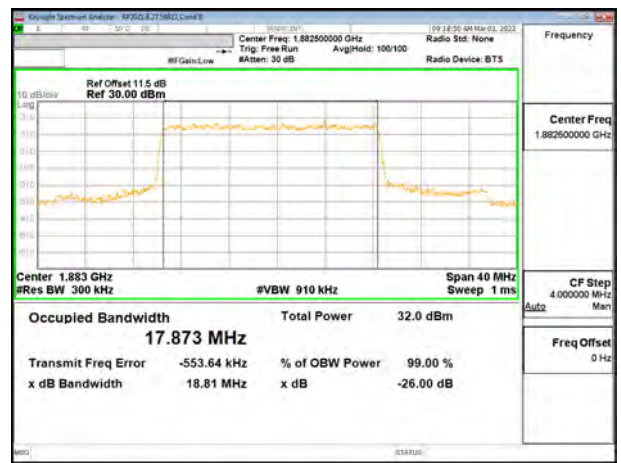
5G NR n25 5MHz BPSK Middle Channel RB25-0



5G NR n25 10MHz BPSK Middle Channel RB50-0



5G NR n25 15MHz BPSK Middle Channel RB75-0



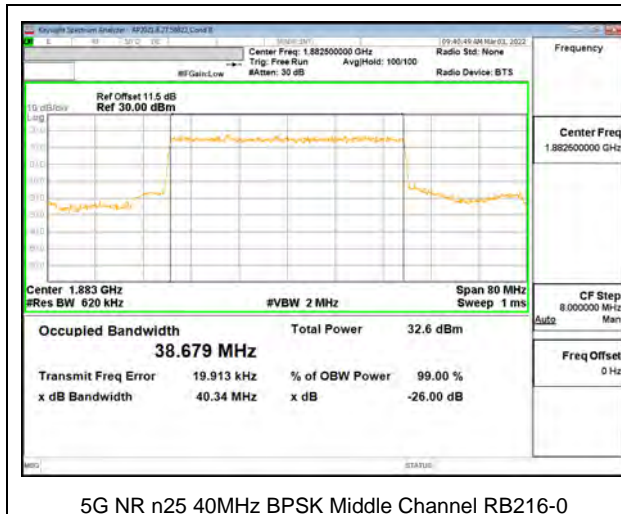
5G NR n25 20MHz BPSK Middle Channel RB100-0



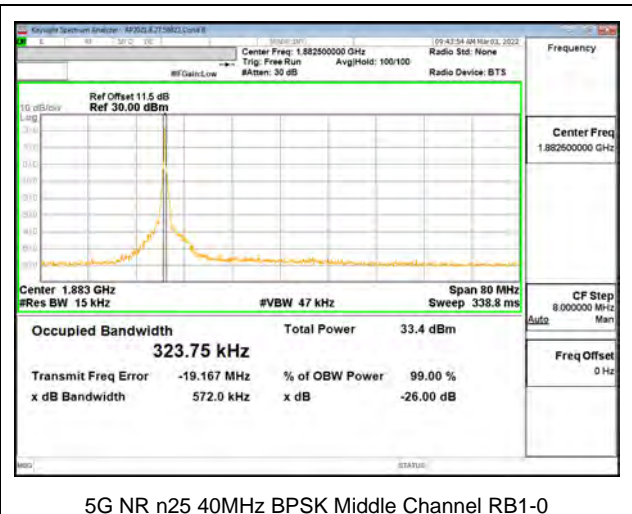
5G NR n25 25MHz BPSK Middle Channel RB128-0



5G NR n25 30MHz BPSK Middle Channel RB160-0



5G NR n25 40MHz BPSK Middle Channel RB216-0



5G NR n25 40MHz BPSK Middle Channel RB1-0

9.1.8. LTE BAND 26 AND 5G NR n26 (FCC PART 90S)

LTE BAND 26



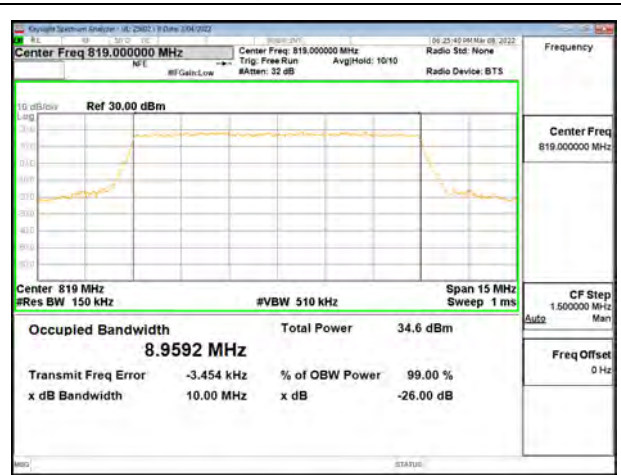
LTE B26 1.4MHz QPSK Middle Channel RB6-0



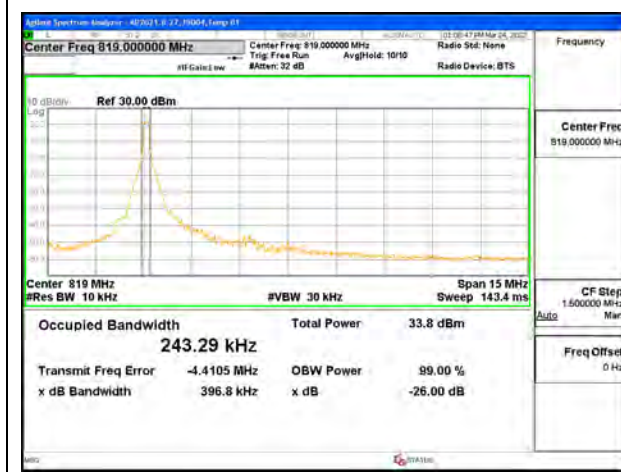
LTE B26 3MHz QPSK Middle Channel RB15-0



LTE B26 5MHz QPSK Middle Channel RB25-0

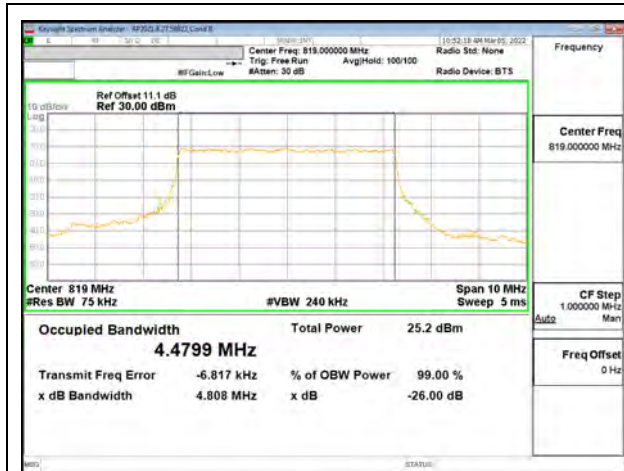


LTE B26 10MHz QPSK Middle Channel RB50-0



LTE B26 10MHz QPSK Middle Channel RB1-0

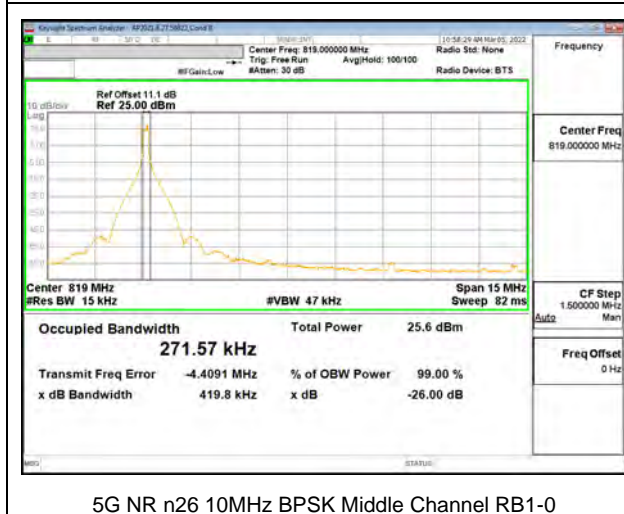
5G NR n26 (FCC PART 90S)



5G NR n26 5MHz BPSK Middle Channel RB25-0



5G NR n26 10MHz BPSK Middle Channel RB50-0



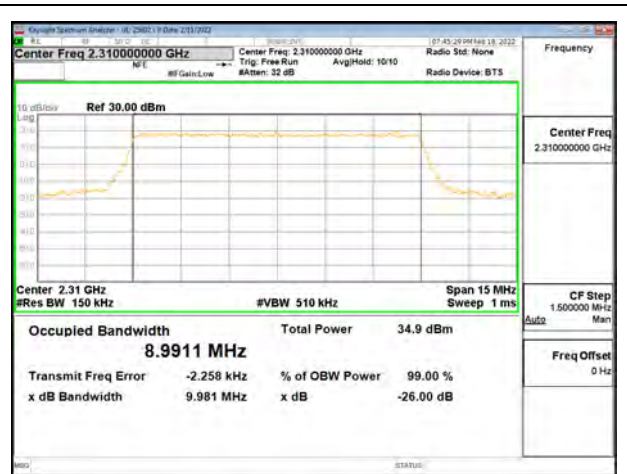
5G NR n26 10MHz BPSK Middle Channel RB1-0

9.1.9. LTE BAND 30 AND 5G NR n30

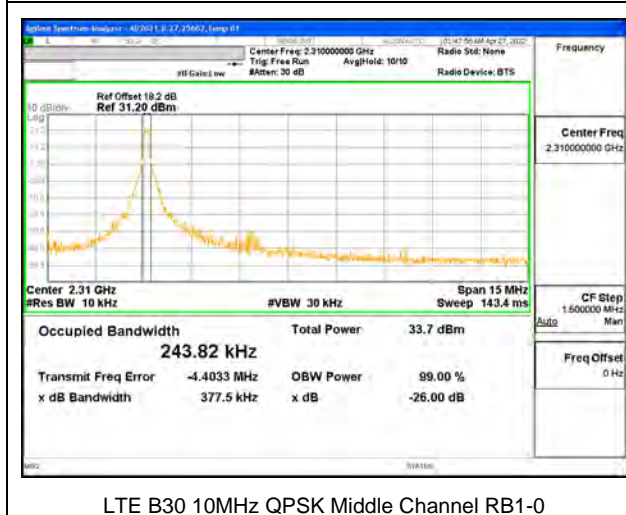
LTE BAND 30



LTE B30 5MHz QPSK Middle Channel RB25-0



LTE B30 10MHz QPSK Middle Channel RB50-0



LTE B30 10MHz QPSK Middle Channel RB1-0

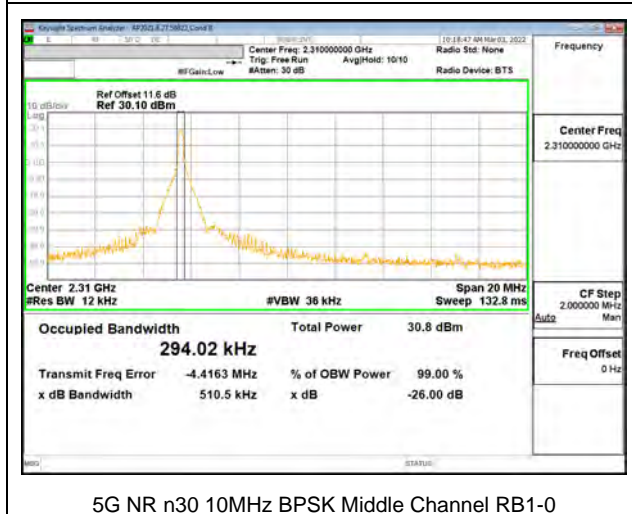
5G NR n30



5G NR n30 5MHz BPSK Middle Channel RB25-0



5G NR n30 10MHz BPSK Middle Channel RB50-0



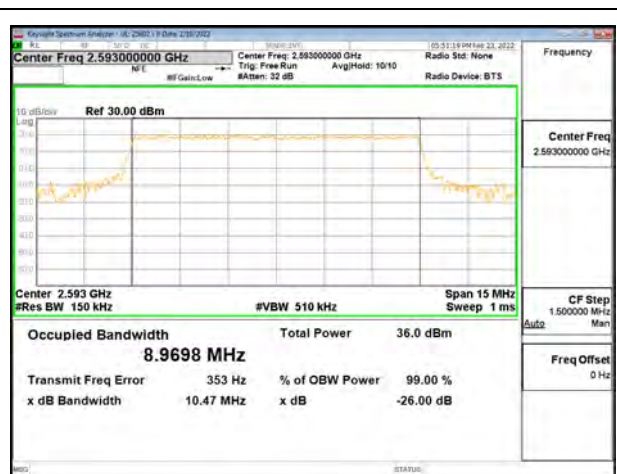
5G NR n30 10MHz BPSK Middle Channel RB1-0

9.1.10. LTE BAND 41 AND 5G NR n41

LTE BAND 41



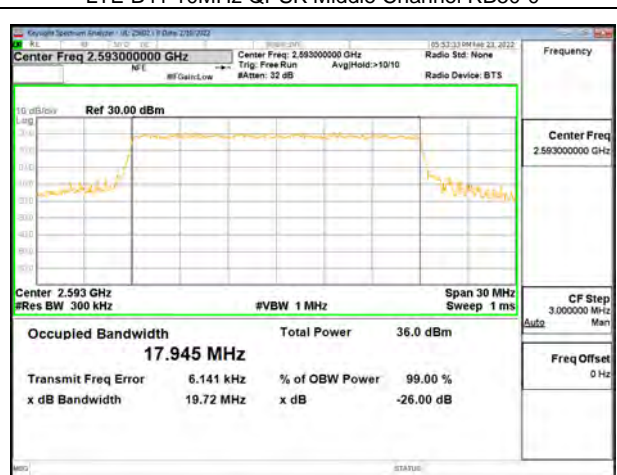
LTE B41 5MHz QPSK Middle Channel RB25-0



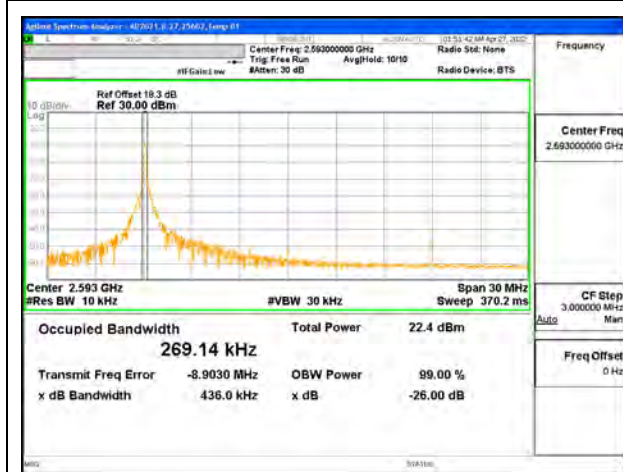
LTE B41 10MHz QPSK Middle Channel RB50-0



LTE B41 15MHz QPSK Middle Channel RB75-0



LTE B41 20MHz QPSK Middle Channel RB100-0

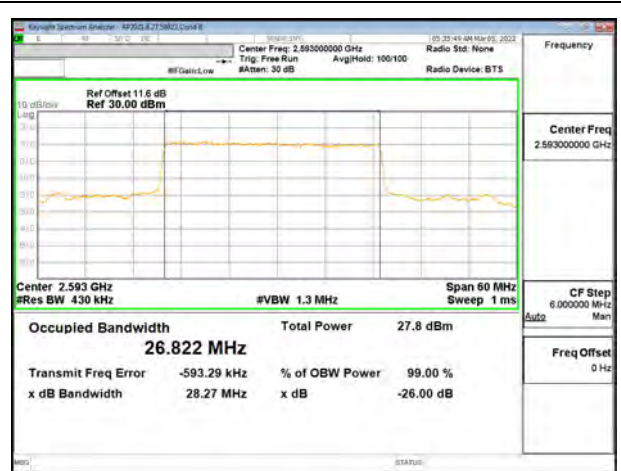


LTE B41 20MHz QPSK Middle Channel RB1-0

5G NR n41



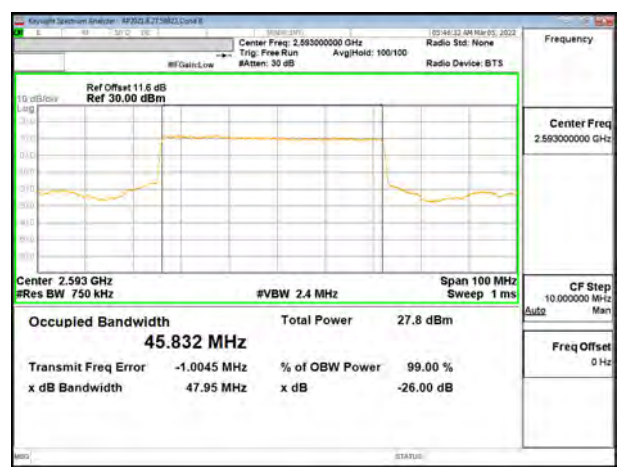
5G NR n41 20MHz BPSK Middle Channel RB50-0



5G NR n41 30MHz BPSK Middle Channel RB75-0



5G NR n41 40MHz BPSK Middle Channel RB100-0



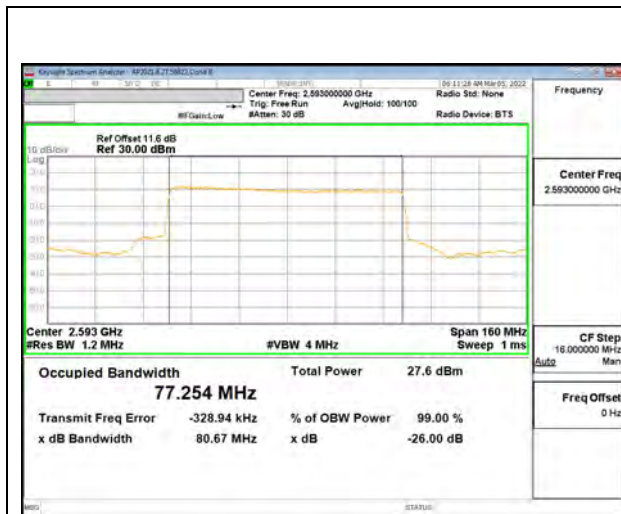
5G NR n41 50MHz BPSK Middle Channel RB128-0



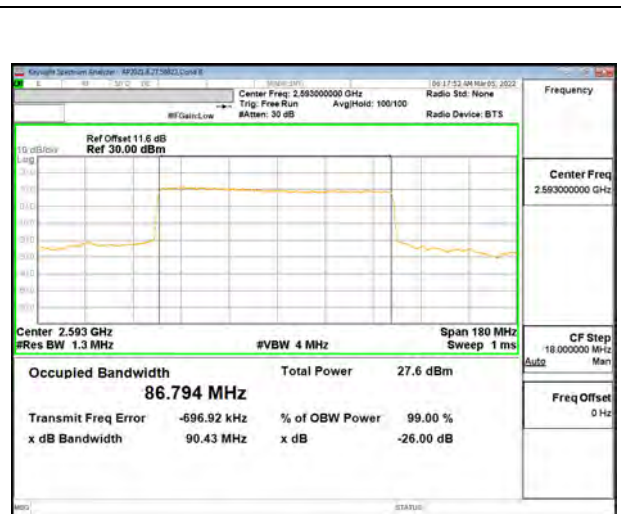
5G NR n41 60MHz BPSK Middle Channel RB162-0



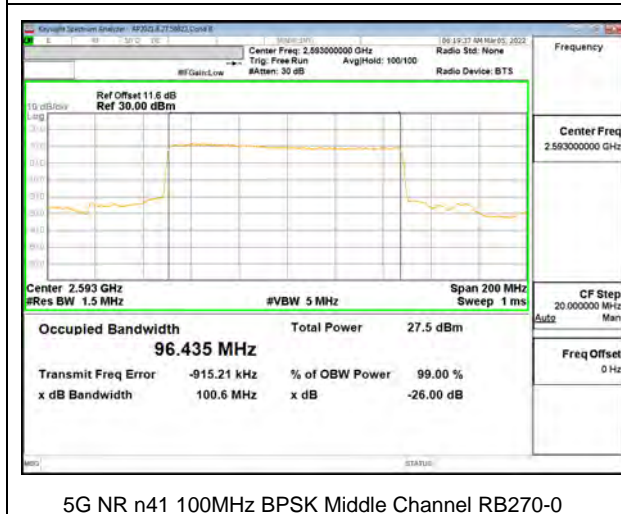
5G NR n41 70MHz BPSK Middle Channel RB180-0



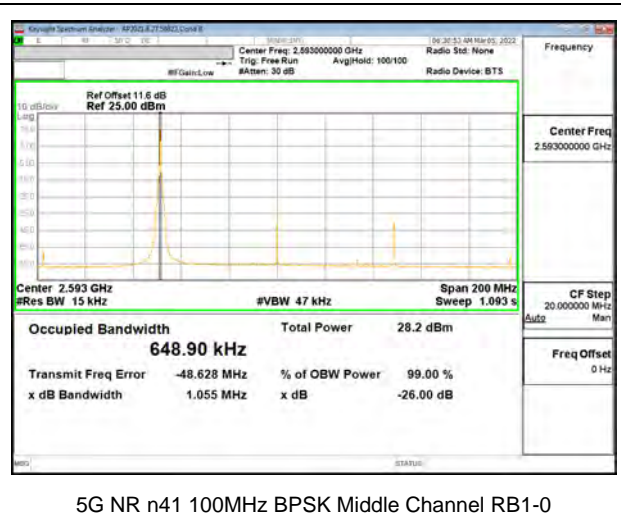
5G NR n41 80MHz BPSK Middle Channel RB216-0



5G NR n41 90MHz BPSK Middle Channel RB243-0



5G NR n41 100MHz BPSK Middle Channel RB270-0



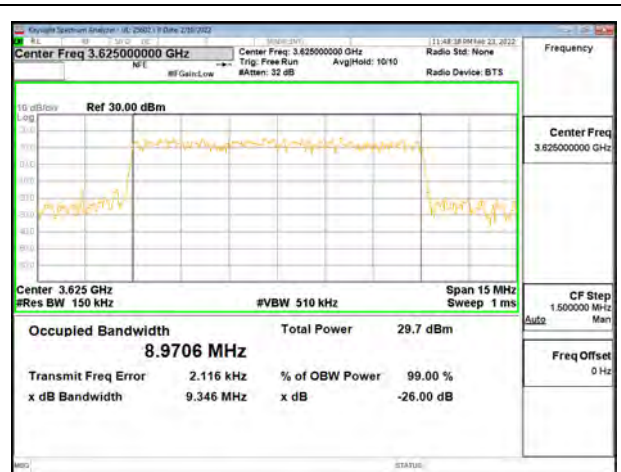
5G NR n41 100MHz BPSK Middle Channel RB1-0

9.1.11. LTE BAND 48

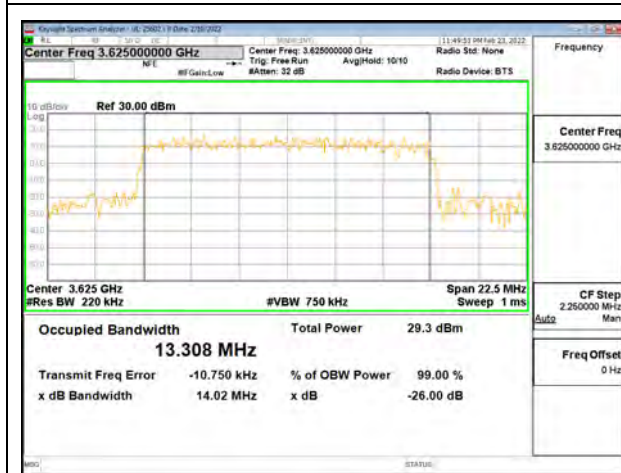
LTE BAND 48



LTE B48 5MHz QPSK Middle Channel RB25-0



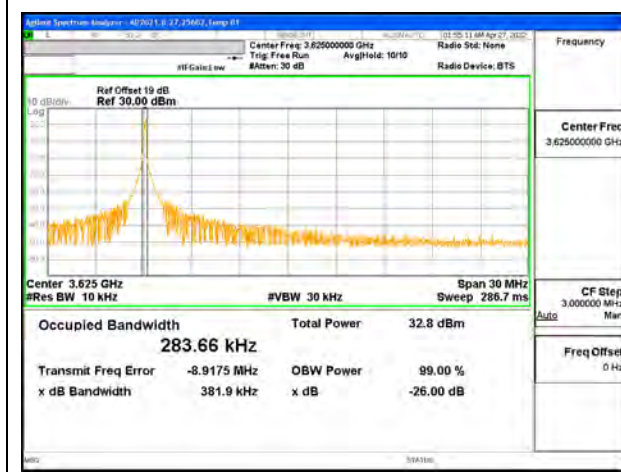
LTE B48 10MHz QPSK Middle Channel RB50-0



LTE B48 15MHz QPSK Middle Channel RB75-0



LTE B48 20MHz QPSK Middle Channel RB100-0



LTE B48 20MHz QPSK Middle Channel RB1-0

9.1.12. LTE BAND 66 AND 5G NR n66

LTE BAND 66



LTE B66 1.4MHz QPSK Middle Channel RB6-0



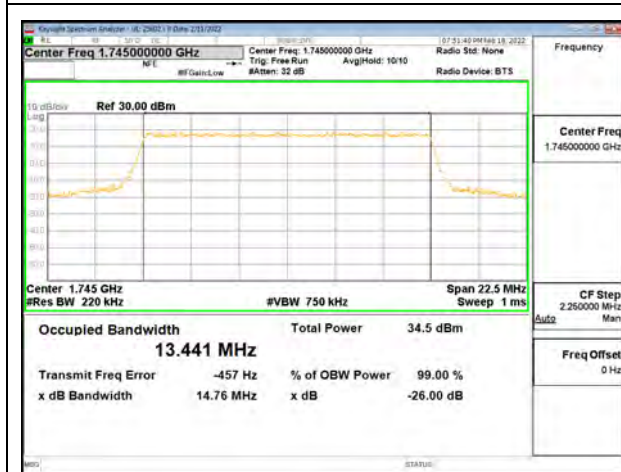
LTE B66 3MHz QPSK Middle Channel RB15-0



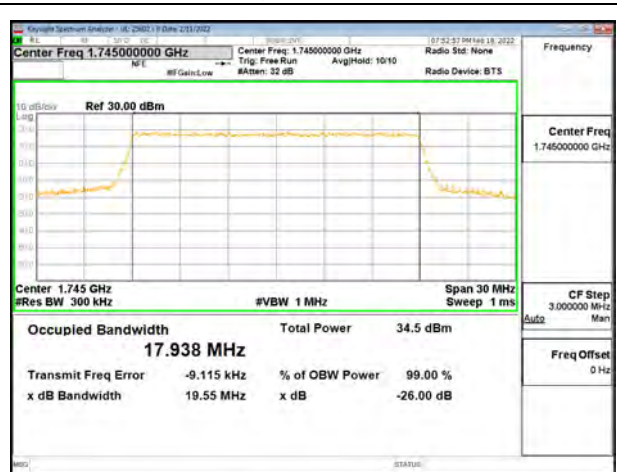
LTE B66 5MHz QPSK Middle Channel RB25-0



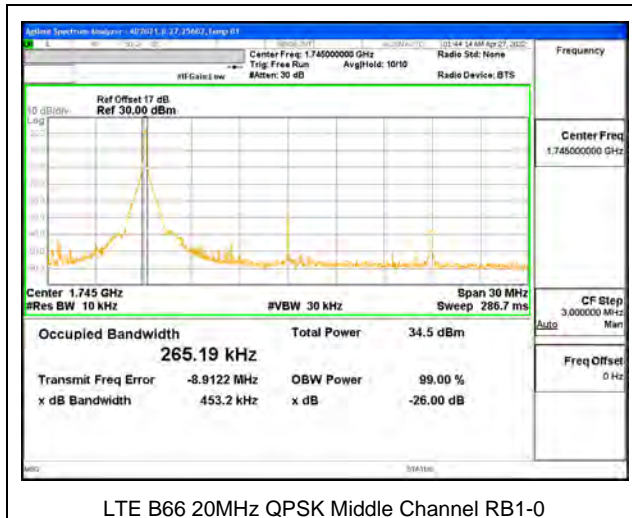
LTE B66 10MHz QPSK Middle Channel RB50-0



LTE B66 15MHz QPSK Middle Channel RB75-0

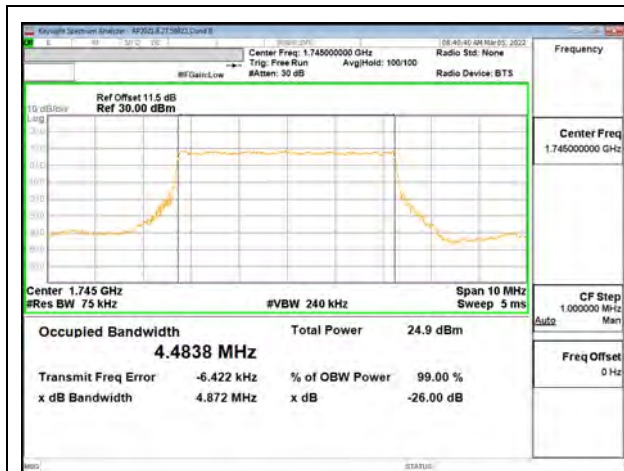


LTE B66 20MHz QPSK Middle Channel RB100-0



LTE B66 20MHz QPSK Middle Channel RB1-0

5G NR n66



5G NR n66 5MHz BPSK Middle Channel RB25-0



5G NR n66 10MHz BPSK Middle Channel RB50-0



5G NR n66 15MHz BPSK Middle Channel RB75-0



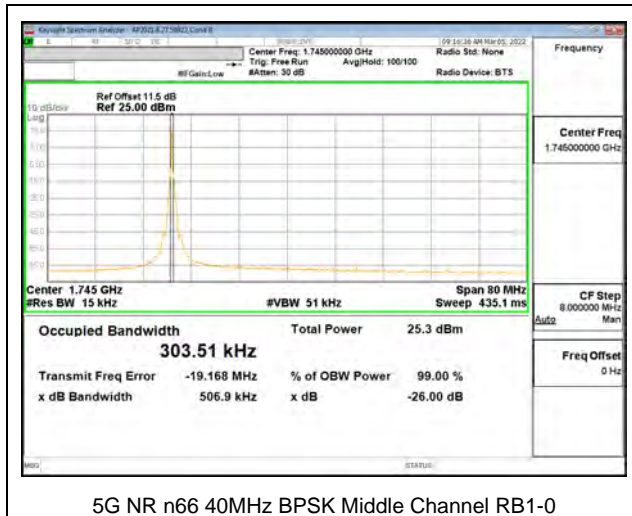
5G NR n66 20MHz BPSK Middle Channel RB100-0



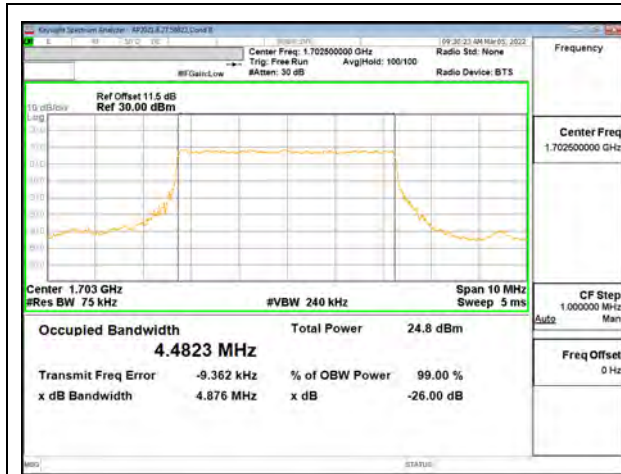
5G NR n66 30MHz BPSK Middle Channel RB160-0



5G NR n66 40MHz BPSK Middle Channel RB216-0



9.1.13. 5G NR n70



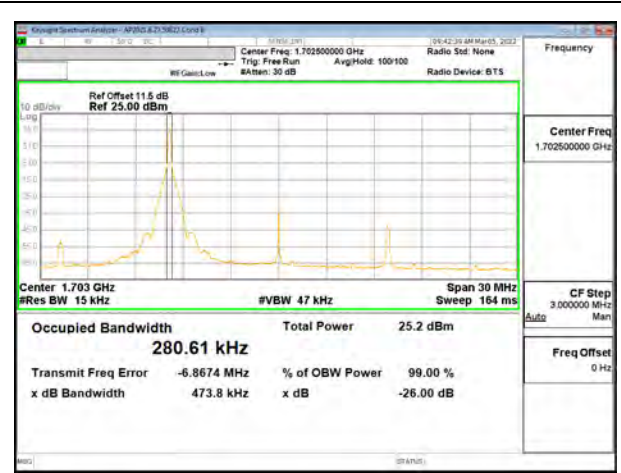
5G NR n70 5MHz BPSK Middle Channel RB25-0



5G NR n70 10MHz BPSK Middle Channel RB50-0



5G NR n70 15MHz BPSK Middle Channel RB75-0



5G NR n70 15MHz BPSK Middle Channel RB1-0

9.1.14. LTE BAND 71 AND 5G NR n71

LTE BAND 71



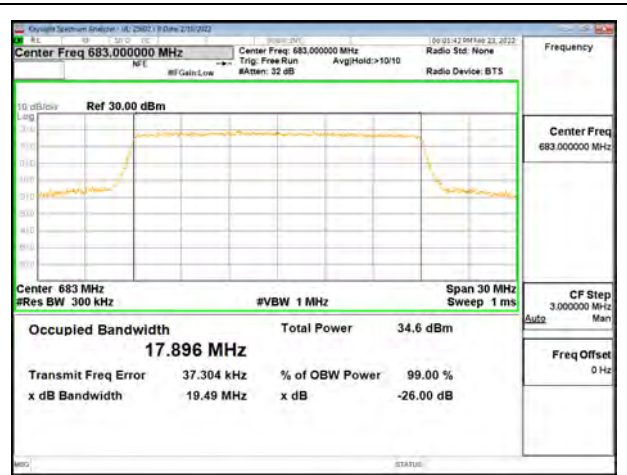
LTE B71 5MHz QPSK Middle Channel RB25-0



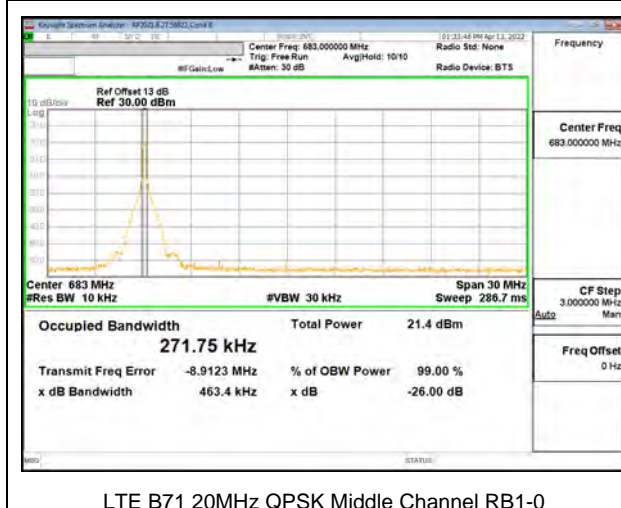
LTE B71 10MHz QPSK Middle Channel RB50-0



LTE B71 15MHz QPSK Middle Channel RB75-0



LTE B71 20MHz QPSK Middle Channel RB100-0

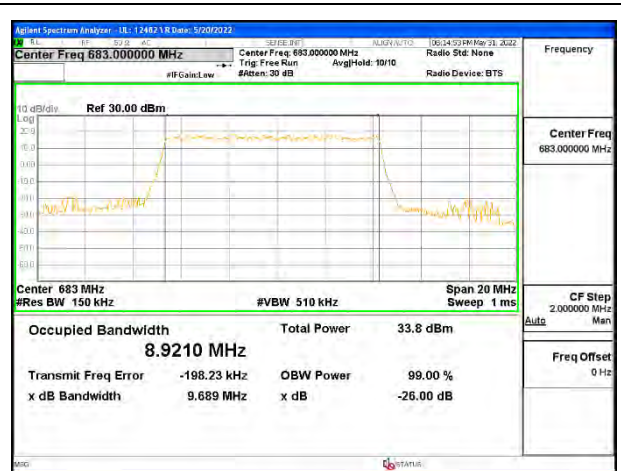


LTE B71 20MHz QPSK Middle Channel RB1-0

5G NR n71



5G NR n71 5MHz BPSK Middle Channel RB25-0



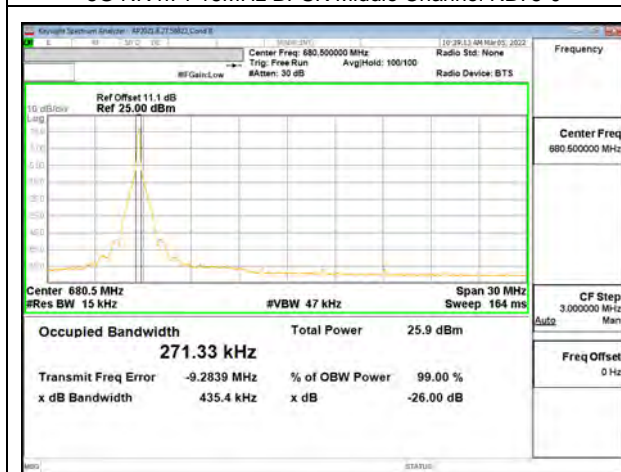
5G NR n71 10MHz BPSK Middle Channel RB50-0



5G NR n71 15MHz BPSK Middle Channel RB75-0

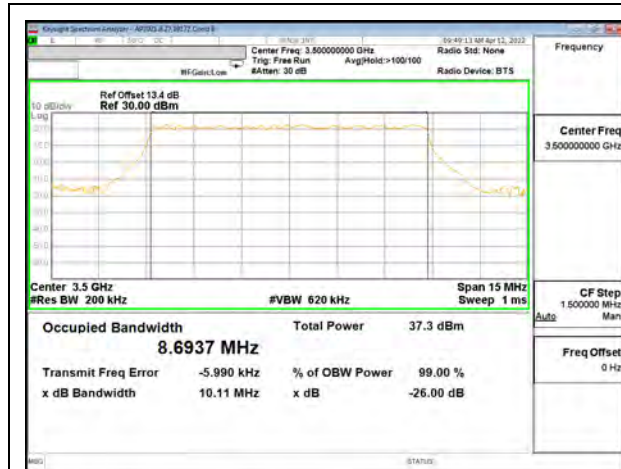


5G NR n71 20MHz BPSK Middle Channel RB100-0



5G NR n71 20MHz BPSK Middle Channel RB1-0

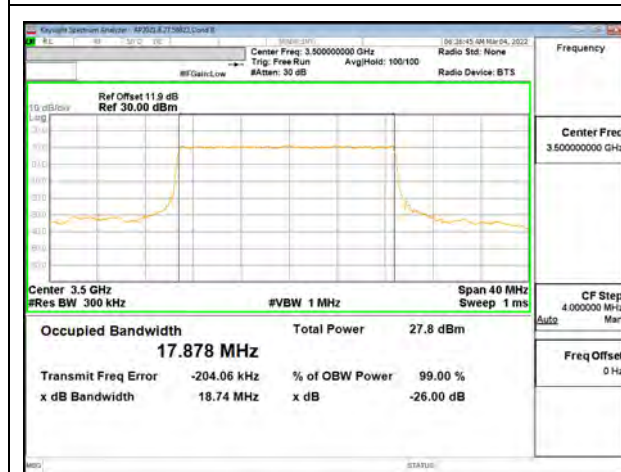
9.1.15. 5G NR n77 (FCC Part 27 3450-3550MHz)



5G NR n77 10MHz BPSK Middle Channel RB24-0



5G NR n77 15MHz BPSK Middle Channel RB36-0



5G NR n77 20MHz BPSK Middle Channel RB50-0



5G NR n77 30MHz BPSK Middle Channel RB75-0



5G NR n77 40MHz BPSK Middle Channel RB100-0



5G NR n77 50MHz BPSK Middle Channel RB128-0



5G NR n77 60MHz BPSK Middle Channel RB162-0



5G NR n77 70MHz BPSK Middle Channel RB180-0



5G NR n77 80MHz BPSK Middle Channel RB216-0



5G NR n77 90MHz BPSK Middle Channel RB243-0

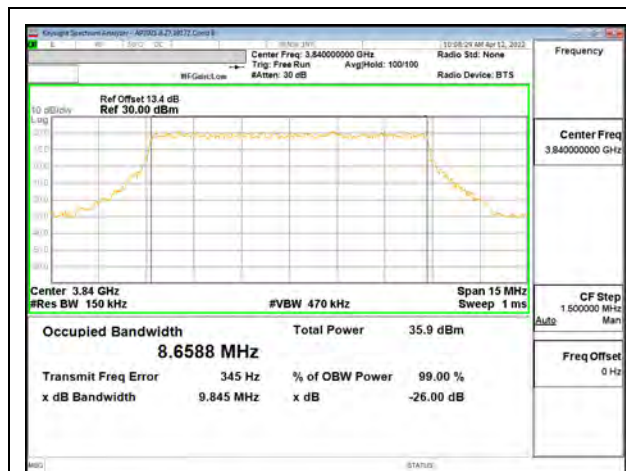


5G NR n77 100MHz BPSK Middle Channel RB270-0



5G NR n77 100MHz BPSK Middle Channel RB1-0

9.1.16. 5G NR n77 (FCC Part 27 3700-3980MHz)



5G NR n77 10MHz BPSK Middle Channel RB24-0



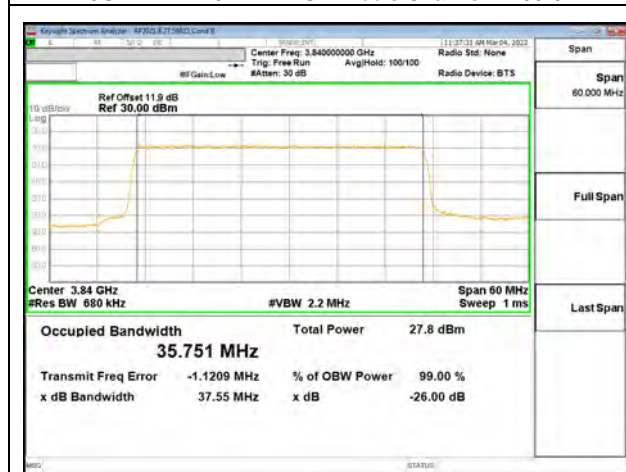
5G NR n77 15MHz BPSK Middle Channel RB36-0



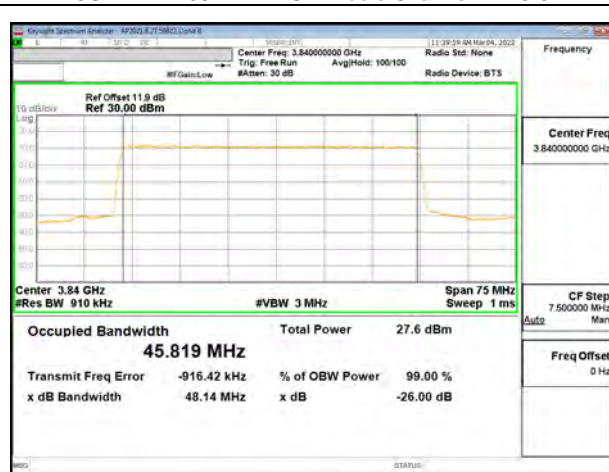
5G NR n77 20MHz BPSK Middle Channel RB50-0



5G NR n77 30MHz BPSK Middle Channel RB75-0



5G NR n77 40MHz BPSK Middle Channel RB100-0



5G NR n77 50MHz BPSK Middle Channel RB128-0



5G NR n77 60MHz BPSK Middle Channel RB162-0



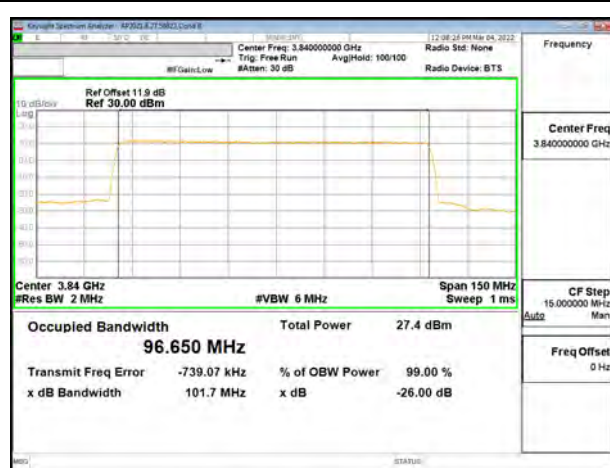
5G NR n77 70MHz BPSK Middle Channel RB180-0



5G NR n77 80MHz BPSK Middle Channel RB216-0



5G NR n77 90MHz BPSK Middle Channel RB243-0



5G NR n77 100MHz BPSK Middle Channel RB270-0



5G NR n77 100MHz BPSK Middle Channel RB1-0

9.2. EMISSION MASK AND ADJACENT CHANNEL POWER

For Spectrum Emission Mask plots, the Keysight PXA N9030A is configured to sweep with a moving integration window, the width of which can be adjusted to different sizes across the sweep. The window width is configured to be greater than or equal to the required reference bandwidth. The center frequencies of the integration window for the different integration windows was set such that the upper and lower edges of the windows are aligned with the transition points in the reference bandwidths. This is achieved by setting the start / stop frequencies of the window with an offset equal to the reference bandwidth / 2 from the transition point.

TEST PROCEDURE

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

1. Set the spectrum analyzer span to include the block edge frequency.
2. Set a marker to point the corresponding band edge frequency in each test case.
3. Set display line at -13 dBm
4. Set resolution bandwidth to at least 1% of emission bandwidth.

TEST PROCEDURE (FCC LTE BAND 14)

(b) ACP measurement procedure. The following are the procedures for making the transmitter ACP measurements. For all measurements modulate the transmitter as it would be modulated in normal operating conditions. For time division multiple access (TDMA) systems, the measurements are to be made under TDMA operation only during time slots when the transmitter is active. All measurements are made at the transmitter's output port. If a transmitter has an integral antenna, a suitable power coupling device shall be used to couple the RF signal to the measurement instrument. The coupling device shall substantially maintain the proper transmitter load impedance. The ACP measurements may be made with a spectrum analyzer capable of making direct ACP measurements. "Measurement bandwidth", as used for non-swept measurements, implies an instrument that measures the power in many narrow bandwidths equal to the nominal resolution bandwidth and integrates these powers to determine the total power in the specified measurement bandwidth.

(1) Setting reference level. Set transmitter to maximum output power. Using a spectrum analyzer capable of ACP measurements, set the measurement bandwidth to the channel size. For example, for a 6.25 kHz transmitter set the measurement bandwidth to 6.25 kHz. Set the frequency offset of the measurement bandwidth to zero and adjust the center frequency of the instrument to the assigned center frequency to measure the average power level of the transmitter. Record this power level in dBm as the "reference power level."

(2) Non-swept power measurement. Using a spectrum analyzer capable of ACP measurements, set the measurement bandwidth and frequency offset from the assigned center frequency as shown in the tables in §90.543 (a) above. Any value of resolution bandwidth may be used as long as it does not exceed 2 percent of the specified measurement bandwidth. Measure the power level in dBm. These measurements should be made at maximum power. Calculate ACP by subtracting the reference power level measured in (b)(1) from the measurements made in this step. The absolute value of the calculated ACP must be greater than or equal to the absolute value of the ACP given in the table for each condition above.

(3) Swept power measurement. Set a spectrum analyzer to 30 kHz resolution bandwidth, 1 MHz video bandwidth and average, sample, or RMS detection. Set the reference level of the spectrum analyzer to the RMS value of the transmitter power. Sweep above and below the carrier frequency to the limits defined in the tables. Calculate ACP by subtracting the reference power level measured in (b)(1) from the measurements made in this step. The absolute value of the calculated ACP must be greater than or equal to the absolute value of the ACP given in the table for each condition above.

TEST PROCEDURE (FCC LTE BAND 7, 41)

(m)(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and

adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

TEST PROCEDURE (FCC LTE BAND 30)

(5) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e., 1 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

TEST PROCEDURE (FCC LTE BAND 48, 5G NR n77 FCC Part 96)

(i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's authorized frequency channel, a resolution bandwidth of no less than one percent of the fundamental emission bandwidth may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full reference bandwidth (i.e., 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

(ii) When measuring unwanted emissions to demonstrate compliance with the limits, the CBSD and End User Device nominal carrier frequency/channel shall be adjusted as close to the licensee's authorized frequency block edges, both upper and lower, as the design permits.

(iii) Compliance with emission limits shall be demonstrated using either average (RMS)-detected or peak-detected power measurement techniques.

RESULTS

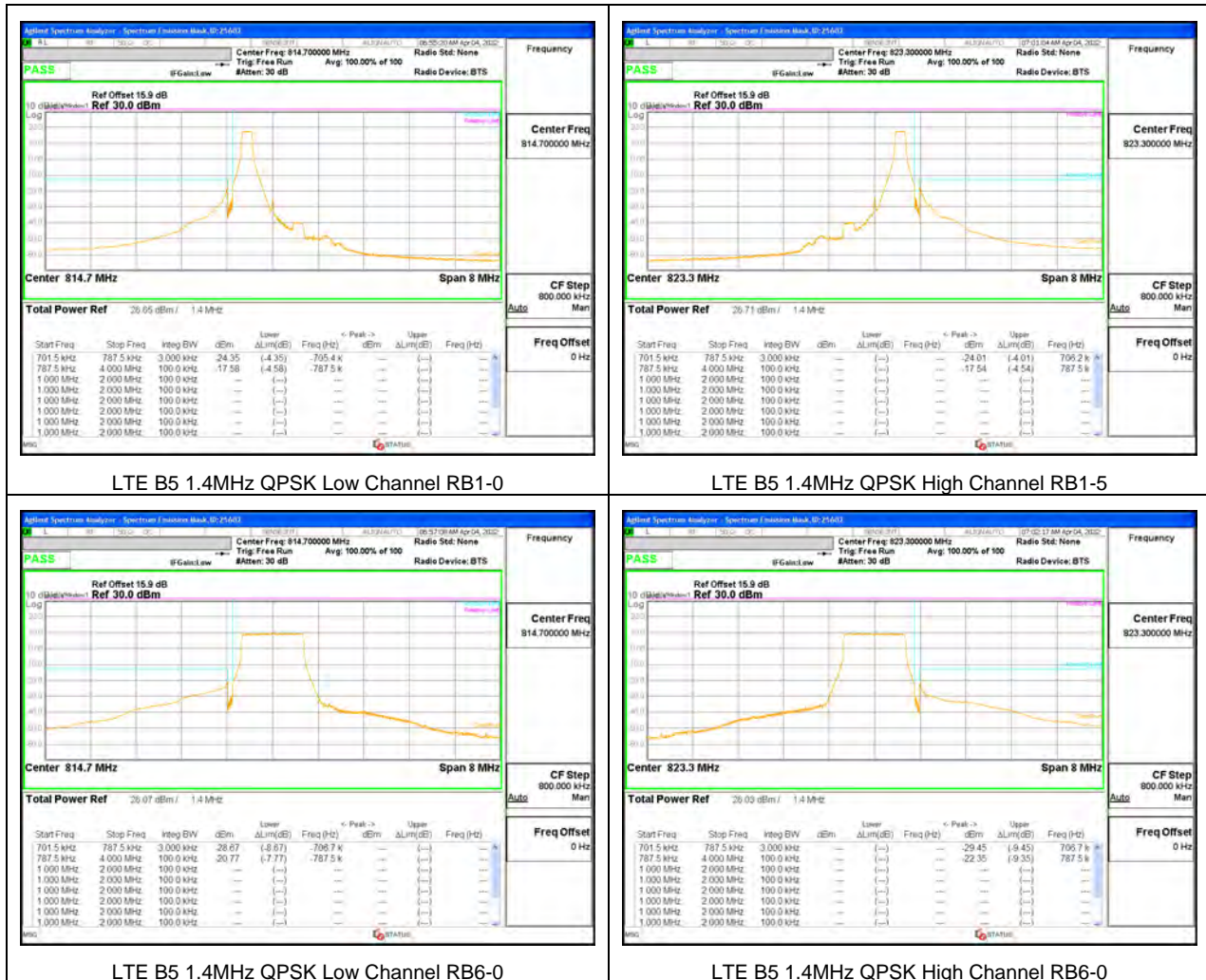
9.2.1. LTE BAND 5 AND 5G NR n5 EMISSION MASK

LIMITS

FCC: §22.917 (a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

LTE BAND 5 EMISSION MASK





LTE B5 3MHz QPSK Low Channel RB1-0



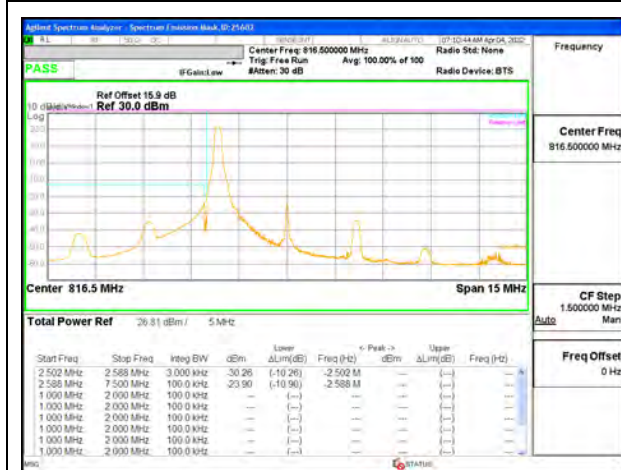
LTE B5 3MHz QPSK High Channel RB1-14



LTE B26 3MHz QPSK Low Channel RB15-0



LTE B5 3MHz QPSK High Channel RB15-0



LTE B5 5MHz QPSK Low Channel RB1-0



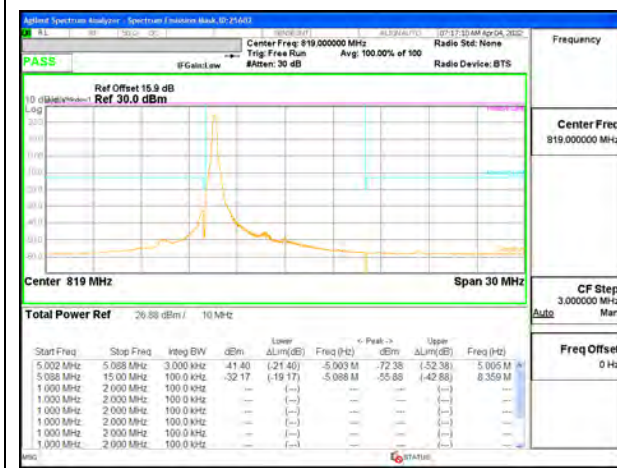
LTE B5 5MHz QPSK High Channel RB1-24



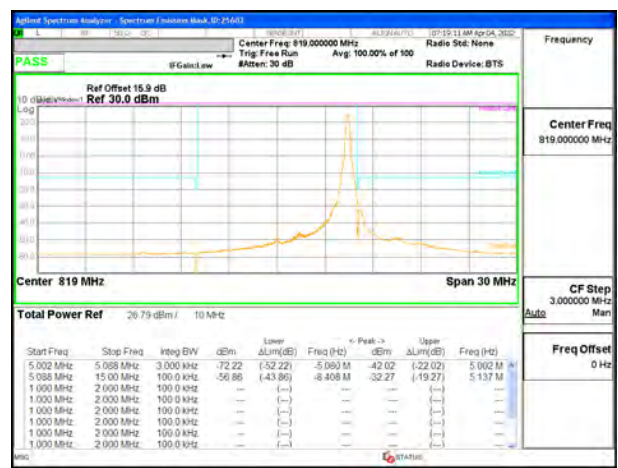
LTE B5 5MHz QPSK Low Channel RB25-0



LTE B5 5MHz QPSK High Channel RB25-0



LTE B5 10MHz QPSK Middle Channel RB1-0

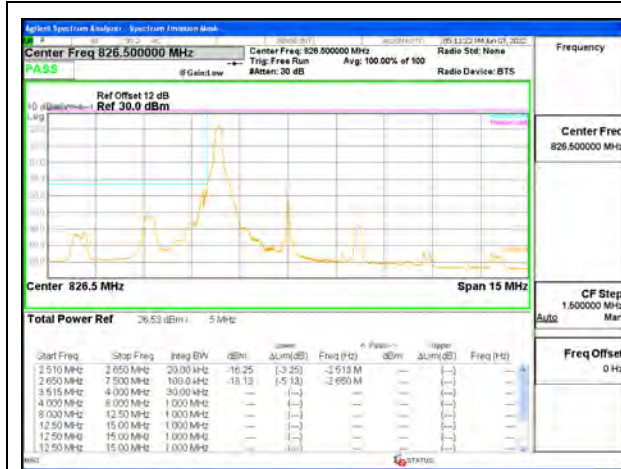


LTE B5 10MHz QPSK Middle Channel RB1-49



LTE B5 10MHz QPSK Middle Channel RB50-0

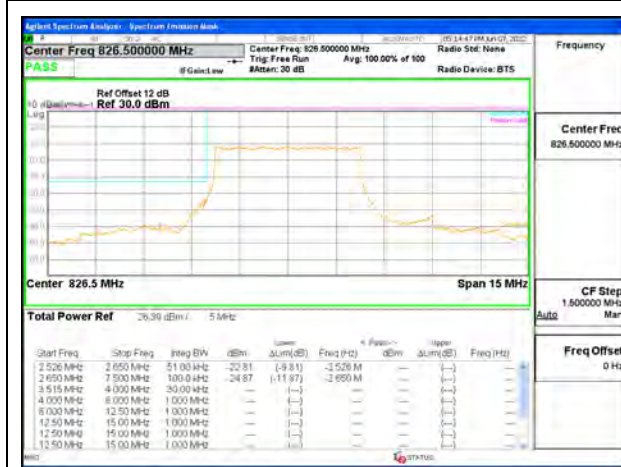
5G NR n5 EMISSION MASK



5G NR n5 5MHz BPSK Low Channel RB1-0-ID-12482



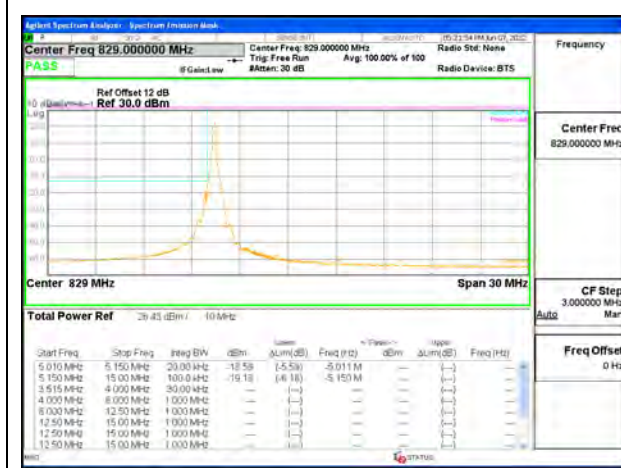
5G NR n5 5MHz BPSK High Channel RB1-24-ID-12482



5G NR n5 5MHz BPSK Low Channel RB25-0-ID-12482



5G NR n5 5MHz BPSK High Channel RB25-0-ID-12482



5G NR n5 10MHz BPSK Low Channel RB1-0-ID-12482



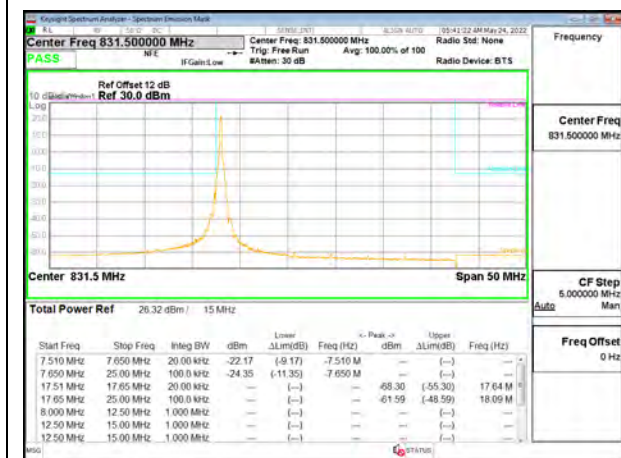
5G NR n5 10MHz BPSK High Channel RB1-51-ID-12482



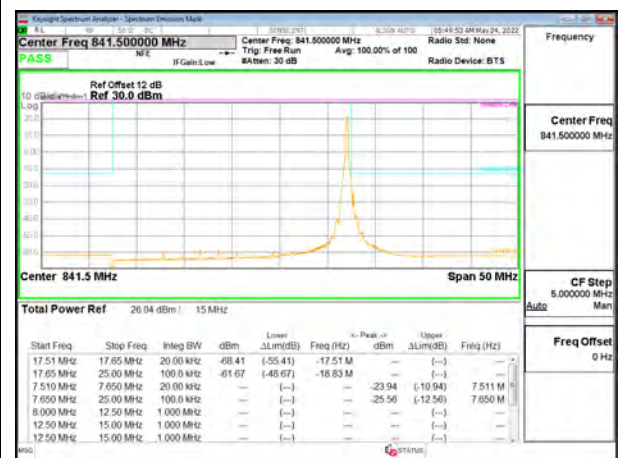
5G NR n5 10MHz BPSK Low Channel RB50-0 -ID-12482



5G NR n5 10MHz BPSK High Channel RB50-0 -ID-12482



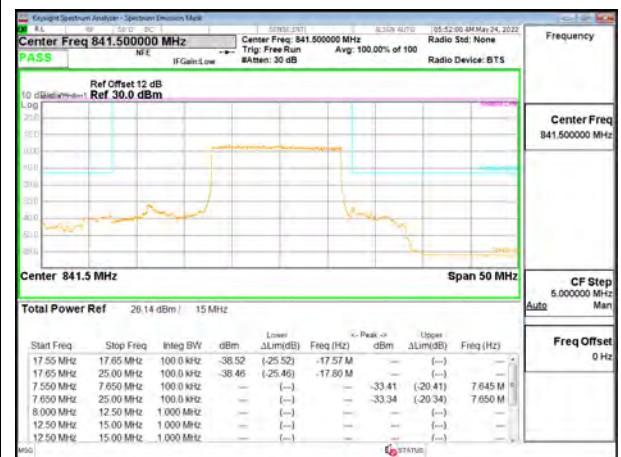
5G NR n5 15MHz BPSK Low Channel RB1-0 -ID-12482



5G NR n5 15MHz BPSK High Channel RB1-78 -ID-12482



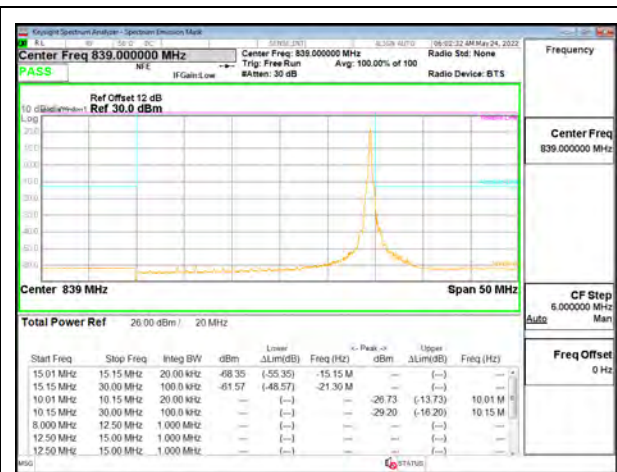
5G NR n5 15MHz BPSK Low Channel RB75-0 -ID-12482



5G NR n5 15MHz BPSK High Channel RB75-0 -ID-12482



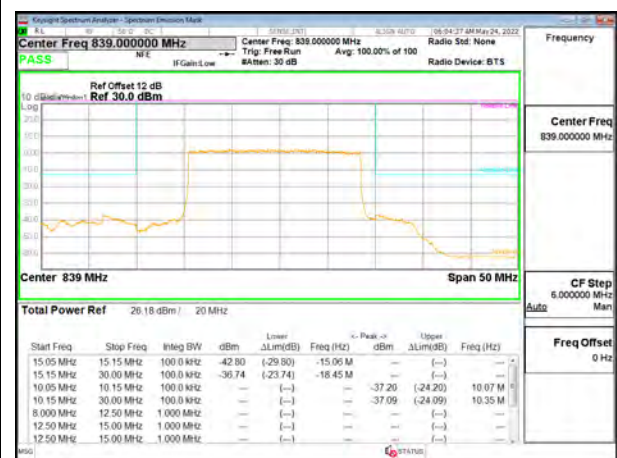
5G NR n5 20MHz BPSK Low Channel RB1-0 -ID-12482



5G NR n5 20MHz BPSK High Channel RB1-105 -ID-12482



5G NR n5 20MHz BPSK Low Channel RB100-0 -ID-12482



5G NR n5 20MHz BPSK High Channel RB100-0 -ID-12482

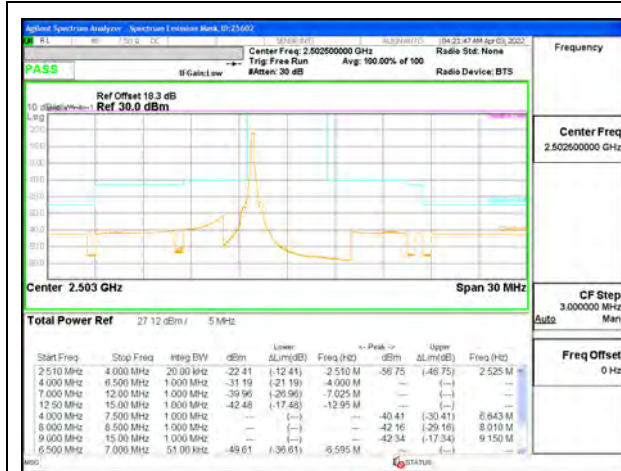
9.2.2. LTE BAND 7 AND 5G NR n7 EMISSION MASK

LIMITS

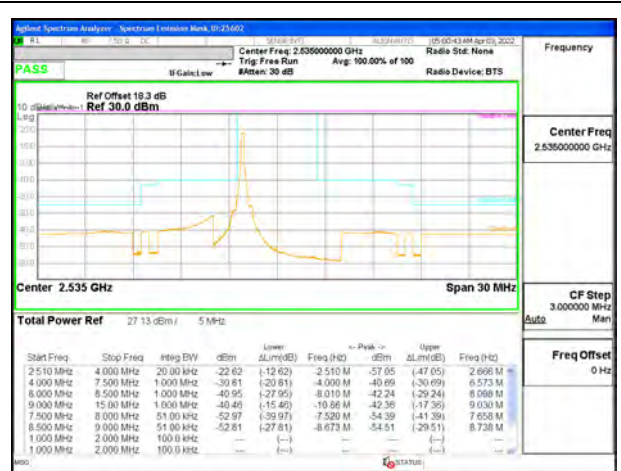
FCC: §27.53

(m)(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

LTE BAND 7 EMISSION MASK



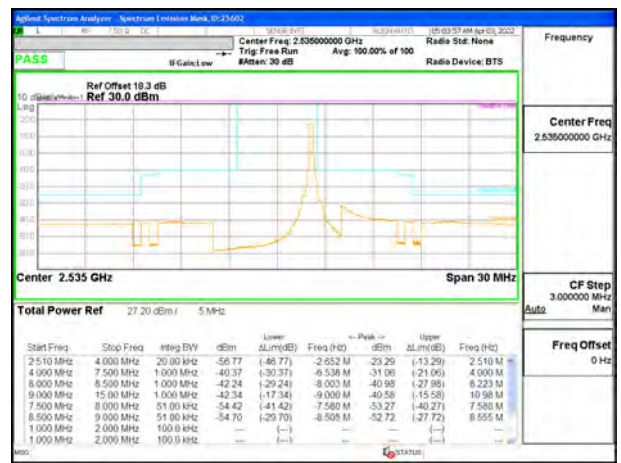
LTE B7 5MHz QPSK Low Channel RB1-0



LTE B7 5MHz QPSK Middle Channel RB1-0



LTE B7 5MHz QPSK Low Channel RB1-24



LTE B7 5MHz QPSK Middle Channel RB1-24



LTE B7 5MHz QPSK Low Channel RB25-0



LTE B7 5MHz QPSK Middle Channel RB25-0



LTE B7 5MHz QPSK High Channel RB1-0



LTE B7 10MHz QPSK Low Channel RB1-0



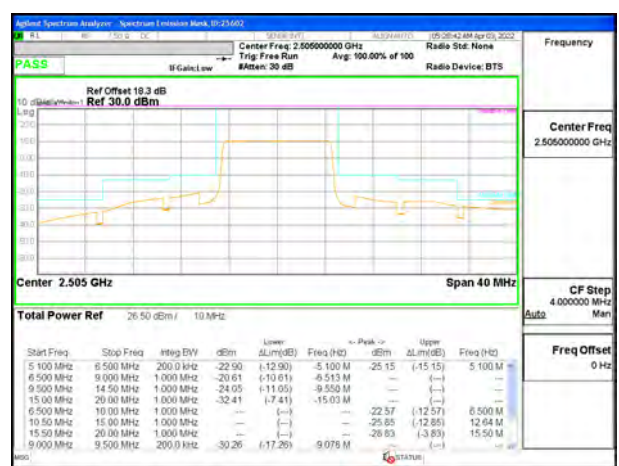
LTE B7 5MHz QPSK High Channel RB1-24



LTE B7 10MHz QPSK Low Channel RB1-49



LTE B7 5MHz QPSK High Channel RB25-0



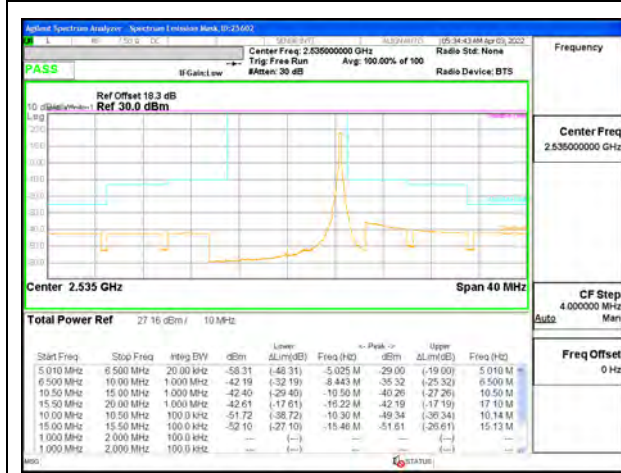
LTE B7 10MHz QPSK Low Channel RB50-0



LTE B7 10MHz QPSK Middle Channel RB1-0



LTE B7 10MHz QPSK High Channel RB1-0



LTE B7 10MHz QPSK Middle Channel RB1-49



LTE B7 10MHz QPSK High Channel RB1-49



LTE B7 10MHz QPSK Middle Channel RB50-0



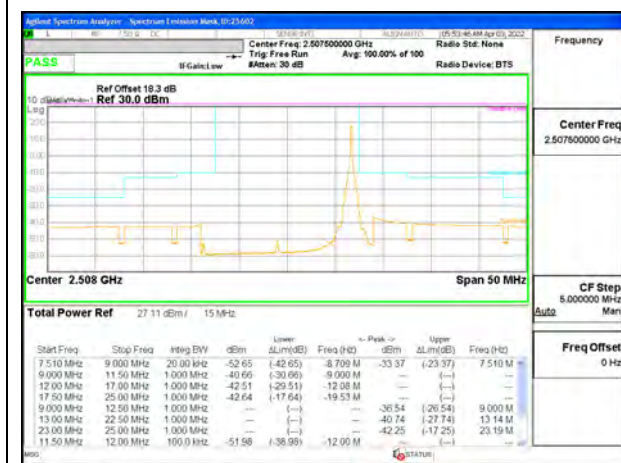
LTE B7 10MHz QPSK High Channel RB50-0



LTE B7 15MHz QPSK Low Channel RB1-0



LTE B7 15MHz QPSK Middle Channel RB1-0



LTE B7 15MHz QPSK Low Channel RB1-74



LTE B7 15MHz QPSK Middle Channel RB1-74



LTE B7 15MHz QPSK Low Channel RB75-0



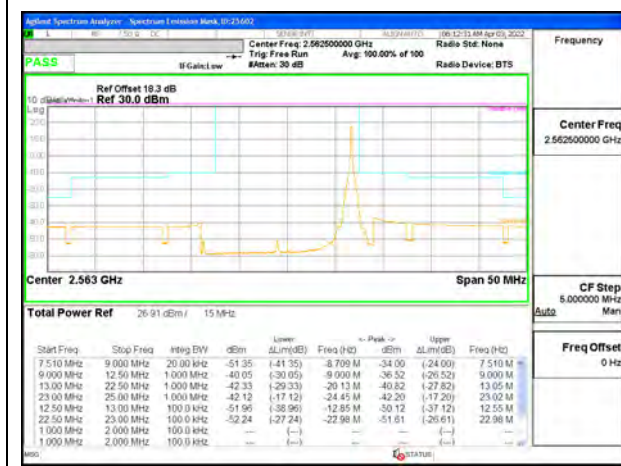
LTE B7 15MHz QPSK Middle Channel RB75-0



LTE B7 15MHz QPSK High Channel RB1-0



LTE B7 20MHz QPSK Low Channel RB1-0



LTE B7 15MHz QPSK High Channel RB1-74



LTE B7 20MHz QPSK Low Channel RB1-99



LTE B7 15MHz QPSK High Channel RB75-0



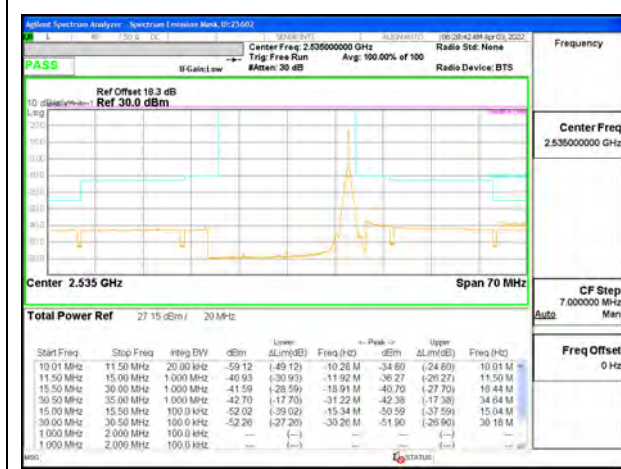
LTE B7 20MHz QPSK Low Channel RB100-0



LTE B7 20MHz QPSK Middle Channel RB1-0



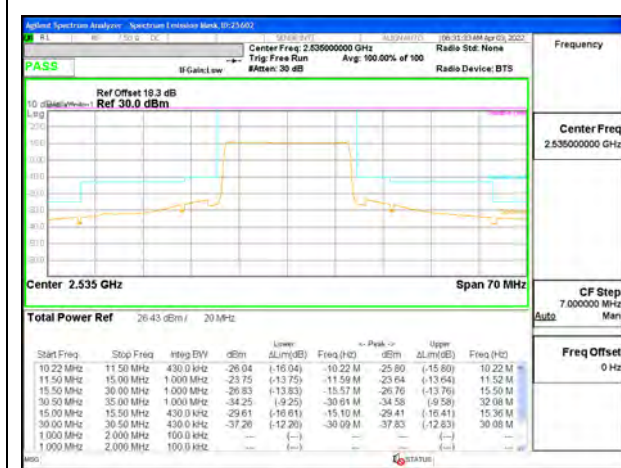
LTE B7 20MHz QPSK High Channel RB1-0



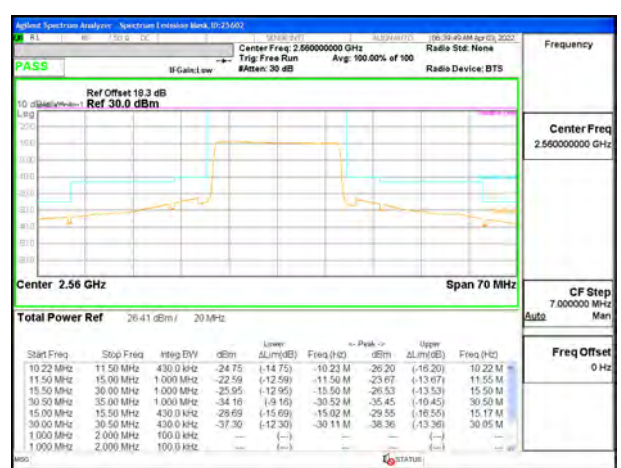
LTE B7 20MHz QPSK Middle Channel RB1-99



LTE B7 20MHz QPSK High Channel RB1-99



LTE B7 20MHz QPSK Middle Channel RB100-0



LTE B7 20MHz QPSK High Channel RB100-0