

TEST REPORT

Report Number : 14523758-E14V4

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

Model : A2846

Brand : APPLE

FCC ID : BCG-E8427A

EUT Description : PHONE

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

Date Of Issue:
2023-08-11

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	2023-07-07	Initial Review	Eric Ting
V2	2023-07-12	Addressed TCB feedback section 1,2,3,5,6,	Eric Ting
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V4	2023-08-11	Addressed TCB feedback section 6.5 and typo	Eric Ting

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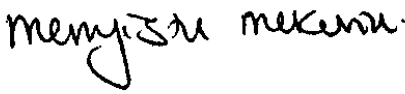

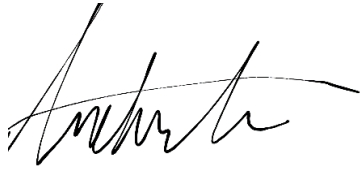
1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE, INC 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A
Model	A2846
Brand	APPLE
FCC ID	BCG-E8427A
EUT Description	PHONE
Serial Number	K7XQ993QJQ, HFPVFHTGH4 (CONDUCTED) AND 9J3N14JKD, HWG09GFXL2 (RADIATED)
Sample Receipt Date	2023-01-26
Date Tested	2023-01-27 TO 2023-06-27
Applicable Standards	FCC 47 CFR PART 2, 22H, 24E, 27, 90S, 90R, AND 96
Test Results	COMPLIES

UL Verification Services Inc. 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 Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. 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: 
Mengistu Mekuria Operations Leader UL Verification Services Inc.	Eric Ting Senior Test Engineer UL Verification Services Inc.	Andrew Le Senior Laboratory Technician UL Verification Services Inc.

2. SUMMARY OF TEST RESULTS

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

Below is a list of the data provided by the customer:

1. Antenna gain (see section 6.4)

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	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	
	71	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	
	30	27.50 (a) (3)	Complies	
	7, 41, 38	27.50 (h) (2)	Complies	
	48	96.41 (b)	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 47 CFR 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 v02r02](#): Misc Rev Approv License Devices
- [FCC KDB 412172 D01 v01r01](#): Determining ERP and EIRP

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. 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			
<input type="checkbox"/>	Building 3: 843 Auburn Court, Fremont, CA 94538 USA			
<input checked="" type="checkbox"/>	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
<input checked="" type="checkbox"/>	Building 5: 47670 Kato Rd, Fremont, CA 94538 USA			

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}
Conducted Antenna Port Emission Measurement	1.940
Power Spectral Density	2.466
Time Domain Measurements Using SA	3.39
RF Power Measurement Direct Method Using Power Meter	0.450 Peak; 1.300 Ave.
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 db
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 db
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 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

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

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, UMTS, LTE, 5G NR1, 5G NR2, IEEE 802.11a/b/g/n/ac/ax, Bluetooth (BT), Ultra-Wideband (UWB), GPS, NFC, 802.15ab-NB and MSS technologies. The rechargeable battery is not user accessible.

6.2. MAXIMUM OUTPUT POWER

EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015
KDB 971168 D01 Section 5.6

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT} - \text{LC}$$

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

PMeas = 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:

LTE BAND 7

Part 27								
EIRP Limit (W)		2.00						
Antenna Gain (dBi) (Ant 1)		-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	2502.5	2567.5	25.70	23.90	0.245	4506	4M51G7W
	16QAM			25.39	23.59	0.229	4512	4M51D7W
10.0	QPSK	2505.0	2565.0	25.70	23.90	0.245	8983	8M98G7W
	16QAM			25.47	23.67	0.233	8990	8M99D7W
15.0	QPSK	2507.5	2562.5	25.70	23.90	0.245	13457	13M5G7W
	16QAM			25.36	23.56	0.227	13461	13M5D7W
20.0	QPSK	2510.0	2560.0	25.70	23.90	0.245	17923	17M9G7W
	16QAM			25.46	23.66	0.232	17979	18M0D7W

5G NR n7

Part 27								
EIRP Limit (W)		2.00						
Antenna Gain (dBi) (Ant 1)		-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	BPSK	2502.5	2567.5	25.65	23.85	0.243	4473	4M47G7W
	QPSK			25.70	23.90	0.245	4481	4M48G7W
	16QAM			25.07	23.27	0.212	4505	4M51D7W
10.0	BPSK	2505.0	2565.0	25.67	23.87	0.244	8949	8M95G7W
	QPSK			25.70	23.90	0.245	8950	8M95G7W
	16QAM			25.01	23.21	0.209	8991	8M99D7W
15.0	BPSK	2507.5	2562.5	25.70	23.90	0.245	13415	13M4G7W
	QPSK			25.70	23.90	0.245	13447	13M4G7W
	16QAM			25.17	23.37	0.217	13435	13M4D7W
20.0	BPSK	2510.0	2560.0	25.70	23.90	0.245	17924	17M9G7W
	QPSK			25.70	23.90	0.245	17898	17M9G7W
	16QAM			25.13	23.33	0.215	17883	17M9D7W
25.0	BPSK	2512.5	2557.5	25.70	23.90	0.245	22906	22M9G7W
	QPSK			25.70	23.90	0.245	22909	22M9G7W
	16QAM			25.19	23.39	0.218	22867	22M9D7W
30.0	BPSK	2515.0	2555.0	25.70	23.90	0.245	28657	28M7G7W
	QPSK			25.70	23.90	0.245	28556	28M6G7W
	16QAM			24.93	23.13	0.206	28576	28M6D7W
35.0	BPSK	2517.5	2552.5	25.70	23.90	0.245	32129	32M1G7W
	QPSK			25.70	23.90	0.245	32206	32M2G7W
	16QAM			25.28	23.48	0.223	32095	32M1D7W
40.0	BPSK	2520.0	2550.0	25.70	23.90	0.245	38661	38M7G7W
	QPSK			25.70	23.90	0.245	38564	38M6G7W
	16QAM			25.11	23.31	0.214	38501	38M5D7W

LTE BAND 12

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi) (Ant 1)		-5.10						
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	18.45	0.070	1088	1M09G7W
	16QAM			25.36	18.11	0.065	1092	1M09D7W
3.0	QPSK	700.5	714.5	25.70	18.45	0.070	2698	2M70G7W
	16QAM			25.39	18.14	0.065	2699	2M70D7W
5.0	QPSK	701.5	713.5	25.70	18.45	0.070	4504	4M50G7W
	16QAM			25.41	18.16	0.065	4498	4M50D7W
10.0	QPSK	704.0	711.0	25.70	18.45	0.070	8969	8M97G7W
	16QAM			25.46	18.21	0.066	8976	8M98D7W

5G NR n12

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi) (Ant 1)		-5.10						
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	25.70	18.45	0.070	4498	4M50G7W
	QPSK			25.70	18.45	0.070	4504	4M50G7W
	16QAM			24.93	17.68	0.059	4471	4M47D7W
10.0	BPSK	704.0	711.0	25.70	18.45	0.070	8945	8M95G7W
	QPSK			25.61	18.36	0.069	8950	8M95G7W
	16QAM			24.96	17.71	0.059	8962	8M96D7W
15.0	BPSK	706.5	708.5	25.70	18.45	0.070	13437	13M4G7W
	QPSK			25.65	18.40	0.069	13441	13M4G7W
	16QAM			24.76	17.51	0.056	13424	13M4D7W

LTE BAND 13

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi) (Ant 1)		-4.80						
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	18.75	0.075	4495	4M50G7W
	16QAM			25.25	18.30	0.068	4051	4M05D7W
10.0	QPSK	782.0	782.0	25.70	18.75	0.075	8953	8M95G7W
	16QAM			25.19	18.24	0.067	8957	8M96D7W

LTE BAND 14

Part 90R								
ERP Limit (W)		3.00						
Antenna Gain (dBi) (Ant 1)		-4.80						
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	18.75	0.075	4502	4M50G7W
	16QAM			25.34	18.39	0.069	4505	4M51D7W
10.0	QPSK	793.0	793.0	25.70	18.75	0.075	8957	8M96G7W
	16QAM			25.28	18.33	0.068	8959	8M96D7W

5G NR n14

Part 90R								
ERP Limit (W)		3.00						
Antenna Gain (dBi) (Ant 1)		-4.80						
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	25.66	18.71	0.074	4487	4M49G7W
	QPSK			25.70	18.75	0.075	4498	4M50G7W
	16QAM			25.07	18.12	0.065	4475	4M48D7W
10.0	BPSK	793.0	793.0	25.62	18.67	0.074	8909	8M91G7W
	QPSK			25.70	18.75	0.075	8936	8M94G7W
	16QAM			25.11	18.16	0.065	8937	8M94D7W

LTE BAND 17

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi) (Ant 1)		-5.10						
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	18.45	0.070	4491	4M49G7W
	16QAM			25.28	18.03	0.064	4477	4M48D7W
10.0	QPSK	709.0	711.0	25.70	18.45	0.070	8960	8M96G7W
	16QAM			25.15	17.90	0.062	8939	8M94D7W

LTE BAND 25

Part 24								
EIRP Limit (W)		2.00						
Antenna Gain (dBi) (Ant 3)		-0.90						
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	24.60	0.288	1089	1M09G7W
	16QAM			24.95	24.05	0.254	1092	1M09D7W
3.0	QPSK	1851.5	1913.5	25.50	24.60	0.288	2698	2M70G7W
	16QAM			24.79	23.89	0.245	2709	2M71D7W
5.0	QPSK	1852.5	1912.5	25.50	24.60	0.288	4497	4M50G7W
	16QAM			24.82	23.92	0.247	4502	4M50D7W
10.0	QPSK	1855.0	1910.0	25.50	24.60	0.288	8974	8M97G7W
	16QAM			24.78	23.88	0.244	9018	9M02D7W
15.0	QPSK	1857.5	1907.5	25.50	24.60	0.288	13468	13M5G7W
	16QAM			24.75	23.85	0.243	13465	13M5D7W
20.0	QPSK	1860.0	1905.0	25.50	24.60	0.288	17941	17M9G7W
	16QAM			25.06	24.16	0.261	17956	18M0D7W

5G NR n25

Part 24								
EIRP Limit (W)		2.00						
Antenna Gain (dBi) (Ant 3)		-0.90						
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	BPSK	1852.5	1912.5	25.50	24.60	0.288	4499	4M50G7W
	QPSK			25.44	24.54	0.284	4504	4M50G7W
	16QAM			24.84	23.94	0.248	4488	4M49D7W
10.0	BPSK	1855.0	1910.0	25.50	24.60	0.288	8964	8M96G7W
	QPSK			25.50	24.60	0.288	8929	8M93G7W
	16QAM			24.86	23.96	0.249	8961	8M96D7W
15.0	BPSK	1857.5	1907.5	25.50	24.60	0.288	13504	13M5G7W
	QPSK			25.50	24.60	0.288	13426	13M4G7W
	16QAM			24.75	23.85	0.243	13423	13M4D7W
20.0	BPSK	1860.0	1905.0	25.50	24.60	0.288	17886	17M9G7W
	QPSK			25.50	24.60	0.288	17836	17M8G7W
	16QAM			24.82	23.92	0.247	17854	17M9D7W
25.0	BPSK	1862.5	1902.5	25.50	24.60	0.288	22802	22M8G7W
	QPSK			25.50	24.60	0.288	22914	22M9G7W
	16QAM			24.67	23.77	0.238	22903	22M9D7W
30.0	BPSK	1865.0	1900.0	25.50	24.60	0.288	28680	28M7G7W
	QPSK			25.50	24.60	0.288	28634	28M6G7W
	16QAM			24.59	23.69	0.234	28605	28M6D7W
35.0	BPSK	1867.5	1897.5	25.50	24.60	0.288	32147	32M1G7W
	QPSK			25.50	24.60	0.288	32177	32M2G7W
	16QAM			24.80	23.90	0.245	32184	32M2D7W
40.0	BPSK	1870.0	1895.0	25.50	24.60	0.288	38484	38M5G7W
	QPSK			25.50	24.60	0.288	38597	38M6G7W
	16QAM			24.99	24.09	0.256	38562	38M6D7W

LTE BAND 26 (Part 90S)

Part 90S									
Conducted Limit (W)		100.00							
Antenna Gain (dBi) (Ant 1)		-4.60							
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	0.37	18.95	0.079	1091	1M09G7W
	16QAM			24.84	0.30	18.09	0.064	1091	1M09D7W
3.0	QPSK	815.5	822.5	25.70	0.37	18.95	0.079	2707	2M71G7W
	16QAM			24.88	0.31	18.13	0.065	2699	2M70D7W
5.0	QPSK	816.5	821.5	25.70	0.37	18.95	0.079	4502	4M50G7W
	16QAM			24.95	0.31	18.20	0.066	4501	4M50D7W
10.0	QPSK	819.0	819.0	25.70	0.37	18.95	0.079	8957	8M96G7W
	16QAM			24.83	0.30	18.08	0.064	8981	8M98D7W

5G NR n26 (Part 90S)

Part 90S									
Conducted Limit (W)		100.00							
Antenna Gain (dBi) Ant(1)		-4.60							
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	25.70	0.37	18.95	0.079	4492	4M49G7W
	QPSK			25.70	0.37	18.95	0.079	4479	4M48G7W
	16QAM			25.04	0.32	18.29	0.067	4480	4M48D7W
10.0	BPSK	819.0	819.0	25.57	0.36	18.82	0.076	8918	8M92G7W
	QPSK			25.70	0.37	18.95	0.079	8943	8M94G7W
	16QAM			24.84	0.30	18.09	0.064	8967	8M97D7W

LTE BAND 26 (Part 22)

Part 22									
ERP Limit (W)		7.00							
Antenna Gain (dBi) (Ant 1)		-4.60							
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	18.95	0.079	1091	1M09G7W	
	16QAM			25.36	18.61	0.073	1093	1M09D7W	
3.0	QPSK	825.5	847.5	25.70	18.95	0.079	2699	2M70G7W	
	16QAM			25.38	18.63	0.073	2704	2M70D7W	
5.0	QPSK	826.5	846.5	25.70	18.95	0.079	4499	4M50G7W	
	16QAM			25.30	18.55	0.072	4504	4M50D7W	
10.0	QPSK	829.0	844.0	25.70	18.95	0.079	8984	8M98G7W	
	16QAM			25.47	18.72	0.074	8979	8M98D7W	
15.0	QPSK	831.5	841.5	25.70	18.95	0.079	13498	13M5G7W	
	16QAM			25.64	18.89	0.077	14474	14M5D7W	

5G NR n26 (Part 22)

Part 22								
ERP Limit (W)		7.00						
Antenna Gain (dBi) (Ant 1)		-4.60						
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	18.95	0.079	4492	4M49G7W
	QPSK			25.70	18.95	0.079	4515	4M52G7W
	16QAM			25.20	18.45	0.070	4488	4M49D7W
10.0	BPSK	829.0	844.0	25.67	18.92	0.078	8964	8M96G7W
	QPSK			25.70	18.95	0.079	8972	8M97G7W
	16QAM			24.90	18.15	0.065	8966	8M97D7W
15.0	BPSK	816.5	841.5	25.67	18.92	0.078	13454	13M5G7W
	QPSK			25.70	18.95	0.079	13410	13M4G7W
	16QAM			24.95	18.20	0.066	13368	13M4D7W
20.0	BPSK	814.0	839.0	25.70	18.95	0.079	17878	17M9G7W
	QPSK			25.70	18.95	0.079	17824	17M8G7W
	16QAM			25.20	18.45	0.070	17881	17M9D7W

LTE BAND 30

Part 27								
EIRP Limit (W)		0.25						
Antenna Gain (dBi) (Ant 2)		-1.20						
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	23.70	22.50	0.178	4499	4M50G7W
	16QAM			22.95	21.75	0.150	4500	4M50D7W
10.0	QPSK	2310.0	2310.0	23.70	22.50	0.178	8998	9M00G7W
	16QAM			22.91	21.71	0.148	8988	8M99D7W

5G NR n30

Part 27								
EIRP Limit (W)		0.25						
Antenna Gain (dBi) (Ant 2)		-1.20						
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	23.20	22.00	0.158	4478	4M48G7W
	QPSK			22.45	21.25	0.133	4483	4M48G7W
	16QAM			21.83	20.63	0.116	4492	4M49D7W
10.0	BPSK	2310.0	2310.0	23.20	22.00	0.158	8939	8M94G7W
	QPSK			21.95	20.75	0.119	8966	8M97G7W
	16QAM			21.54	20.34	0.108	8960	8M96D7W

LTE BAND 41

Part 27								
EIRP Limit (W)		2.00						
Antenna Gain (dBi) (Ant 1)		-1.20						
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	28.70	27.50	0.562	4485	4M49G7W
	16QAM			28.67	27.47	0.558	4504	4M50D7W
10.0	QPSK	2501.0	2685.0	28.70	27.50	0.562	76	76K0G7W
	16QAM			28.67	27.47	0.558	8972	8M97D7W
15.0	QPSK	2503.5	2682.5	28.70	27.50	0.562	13431	13M4G7W
	16QAM			28.65	27.45	0.556	13432	13M4D7W
20.0	QPSK	2506.0	2680.0	28.70	27.50	0.562	17918	17M9G7W
	16QAM			28.61	27.41	0.551	17884	17M9D7W

5G NR n41

Part 27								
EIRP Limit (W)		2.00						
Antenna Gain (dBi) (Ant 1)		-1.20						
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	2501.0	2685.0	28.70	27.50	0.562	8617	8M62G7W
	QPSK			28.43	27.23	0.528	8615	8M62G7W
	16QAM			27.36	26.16	0.413	8646	8M65D7W
15.0	BPSK	2503.5	2682.5	28.70	27.50	0.562	12920	12M9G7W
	QPSK			28.18	26.98	0.499	12885	12M9G7W
	16QAM			27.30	26.10	0.407	12955	13M0D7W
20.0	BPSK	2506.5	2680.0	28.70	27.50	0.562	17899	17M9G7W
	QPSK			28.36	27.16	0.520	17980	18M0G7W
	16QAM			27.37	26.17	0.414	17853	17M9D7W
30.0	BPSK	2511.0	2675.0	28.70	27.50	0.562	26886	26M9G7W
	QPSK			28.09	26.89	0.489	26903	26M9G7W
	16QAM			27.33	26.13	0.410	26832	26M8D7W
40.0	BPSK	2516.0	2670.0	28.70	27.50	0.562	35737	35M7G7W
	QPSK			27.75	26.55	0.452	35755	35M8G7W
	16QAM			26.91	25.71	0.372	35834	35M8D7W
50.0	BPSK	2521.0	2665.0	28.70	27.50	0.562	45720	45M7G7W
	QPSK			27.64	26.44	0.441	45852	45M9G7W
	16QAM			27.31	26.11	0.408	45764	45M8D7W
60.0	BPSK	2526.0	2660.0	28.70	27.50	0.562	57858	57M9G7W
	QPSK			27.99	26.79	0.478	57918	57M9G7W
	16QAM			27.18	25.98	0.396	58045	58M0D7W
70.0	BPSK	2531.0	2655.0	28.70	27.50	0.562	64485	64M5G7W
	QPSK			27.92	26.72	0.470	64414	64M4G7W
	16QAM			27.14	25.94	0.393	64131	64M1D7W
80.0	BPSK	2536.0	2650.0	28.70	27.50	0.562	77132	77M1G7W
	QPSK			28.24	27.04	0.506	77097	77M1G7W
	16QAM			27.32	26.12	0.409	77357	77M4D7W
90.0	BPSK	2541.0	2645.0	28.70	27.50	0.562	86702	86M7G7W
	QPSK			27.77	26.57	0.454	86784	86M8G7W
	16QAM			27.13	25.93	0.392	87110	87M1D7W
100.0	BPSK	2546.0	2640.0	28.70	27.50	0.562	96574	96M6G7W
	QPSK			27.96	26.76	0.474	96477	96M5G7W
	16QAM			27.11	25.91	0.390	96317	96M3D7W

LTE BAND 48

LOW CHANNEL

Part 96								
EIRP Limit (W)/ 10MHz		0.20						
Antenna Gain (dBi)_ Ant(9)		-2.20						
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	24.70	22.50	0.178	4483	4M48G7W
	16QAM			24.43	22.23	0.167	4474	4M47D7W
10.0	QPSK	3555.0	3695.0	24.70	22.50	0.178	8917	8M92G7W
	16QAM			24.34	22.14	0.164	8918	8M92D7W
15.0	QPSK	3557.5	3692.5	24.70	22.50	0.178	13383	13M4G7W
	16QAM			24.41	22.21	0.166	13435	13M4D7W
20.0	QPSK	3560.0	3690.0	24.70	22.50	0.178	17855	17M9G7W
	16QAM			24.55	22.35	0.172	17800	17M8D7W

MIDDLE CHANNEL

Part 96								
EIRP Limit (W)/ 10MHz		0.20						
Antenna Gain (dBi)_ Ant(8)		-3.40						
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	25.90	22.50	0.178	4483	4M48G7W
	16QAM			25.37	21.97	0.157	4474	4M47D7W
10.0	QPSK	3555.0	3695.0	25.90	22.50	0.178	8917	8M92G7W
	16QAM			25.42	22.02	0.159	8918	8M92D7W
15.0	QPSK	3557.5	3692.5	25.90	22.50	0.178	13383	13M4G7W
	16QAM			25.38	21.98	0.158	13435	13M4D7W
20.0	QPSK	3560.0	3690.0	25.90	22.50	0.178	17855	17M9G7W
	16QAM			25.50	22.10	0.162	17800	17M8D7W

HIGH CHANNEL

Part 96								
EIRP Limit (W)/ 10MHz		0.20						
Antenna Gain (dBi)_ Ant(8)		-3.80						
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	3552.5	3697.5	25.90	22.10	0.162	4483	4M48G7W
	16QAM			25.48	21.68	0.147	4474	4M47D7W
10.0	QPSK	3555.0	3695.0	25.90	22.10	0.162	8917	8M92G7W
	16QAM			25.42	21.62	0.145	8918	8M92D7W
15.0	QPSK	3557.5	3692.5	25.90	22.10	0.162	13383	13M4G7W
	16QAM			25.35	21.55	0.143	13435	13M4D7W
20.0	QPSK	3560.0	3690.0	25.90	22.10	0.162	17855	17M9G7W
	16QAM			25.66	21.86	0.153	17800	17M8D7W

5G NR n48

LOW CHANNEL

Part 96								
EIRP Limit (W)		0.20						
Antenna Gain (dBi) Ant(9)		-2.20						
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	3555.0	3695.0	24.64	22.44	0.175	8570	8M57G7W
	QPSK			24.70	22.50	0.178	8562	8M56G7W
	16QAM			23.87	21.67	0.147	8555	8M56D7W
15.0	BPSK	3557.5	3692.5	24.70	22.50	0.178	12899	12M9D7W
	QPSK			24.68	22.48	0.177	12846	12M8D7W
	16QAM			23.57	21.37	0.137	12844	12M8D7W
20.0	BPSK	3560.0	3690.0	24.70	22.50	0.178	17899	17M9D7W
	QPSK			24.64	22.44	0.175	17870	17M9D7W
	16QAM			23.71	21.51	0.142	17927	17M9D7W
30.0	BPSK	3565.0	3685.0	24.70	22.50	0.178	26732	26M7D7W
	QPSK			24.64	22.44	0.175	26716	26M7D7W
	16QAM			23.71	21.51	0.142	26774	26M8D7W
40.0	BPSK	3570.0	3680.0	23.96	21.76	0.150	35702	35M7D7W
	QPSK			24.70	22.50	0.178	35808	35M8D7W
	16QAM			23.28	21.08	0.128	35637	35M6D7W

MIDDLE CHANNEL

Part 96								
EIRP Limit (W)		0.20						
Antenna Gain (dBi) Ant(8)		-3.40						
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	3555.0	3695.0	25.81	22.41	0.174	8614	8M61G7W
	QPSK			25.90	22.50	0.178	8590	8M59G7W
	16QAM			24.89	21.49	0.141	8600	8M60D7W
15.0	BPSK	3557.5	3692.5	25.76	22.36	0.172	12853	12M9D7W
	QPSK			25.90	22.50	0.178	12811	12M8D7W
	16QAM			24.86	21.46	0.140	12855	12M9D7W
20.0	BPSK	3560.0	3690.0	25.80	22.40	0.174	17869	17M9G7W
	QPSK			25.90	22.50	0.178	17842	17M8G7W
	16QAM			25.13	21.73	0.149	17872	17M9D7W
30.0	BPSK	3565.0	3685.0	25.90	22.50	0.178	26804	26M8G7W
	QPSK			25.85	22.45	0.176	26780	26M8G7W
	16QAM			24.88	21.48	0.141	26776	26M8D7W
40.0	BPSK	3570.0	3680.0	25.90	22.50	0.178	35755	35M8G7W
	QPSK			25.83	22.43	0.175	35780	35M8G7W
	16QAM			24.80	21.40	0.138	35644	35M6D7W

HIGH CHANNEL

Part 96								
EIRP Limit (W)		0.20						
Antenna Gain (dBi) Ant(8)		-3.80						
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	3555.0	3695.0	25.90	22.10	0.162	8614	8M61G7W
	QPSK			25.83	22.03	0.160	8590	8M59G7W
	16QAM			25.01	21.21	0.132	8600	8M60D7W
15.0	BPSK	3557.5	3692.5	25.90	22.10	0.162	12853	12M9D7W
	QPSK			25.72	21.92	0.156	12811	12M8D7W
	16QAM			25.01	21.21	0.132	12855	12M9D7W
20.0	BPSK	3560.0	3690.0	25.81	22.01	0.159	17869	17M9G7W
	QPSK			25.90	22.10	0.162	17842	17M8G7W
	16QAM			25.00	21.20	0.132	17872	17M9D7W
30.0	BPSK	3565.0	3685.0	25.90	22.10	0.162	26804	26M8G7W
	QPSK			25.76	21.96	0.157	26780	26M8G7W
	16QAM			25.01	21.21	0.132	26776	26M8D7W
40.0	BPSK	3570.0	3680.0	25.90	22.10	0.162	35755	35M8G7W
	QPSK			25.76	21.96	0.157	35780	35M8G7W
	16QAM			24.75	20.95	0.124	35644	35M6D7W

LTE BAND 66

Part 27								
EIRP Limit (W)		1.00						
Antenna Gain (dBi) (Ant 1)		-1.40						
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	25.70	24.30	0.269	1087	1M09G7W
	16QAM			25.12	23.72	0.236	1091	1M09D7W
3.0	QPSK	1711.5	1778.5	25.70	24.30	0.269	2700	2M70G7W
	16QAM			25.20	23.80	0.240	2709	2M71D7W
5.0	QPSK	1712.5	1777.5	25.70	24.30	0.269	4513	4M51G7W
	16QAM			25.15	23.75	0.237	4498	4M50D7W
10.0	QPSK	1715.0	1775.0	25.70	24.30	0.269	8986	8M99G7W
	16QAM			25.23	23.83	0.242	8989	8M99D7W
15.0	QPSK	1717.5	1772.5	25.70	24.30	0.269	13435	13M4G7W
	16QAM			25.23	23.83	0.242	13462	13M5D7W
20.0	QPSK	1720.0	1770.0	25.70	24.30	0.269	17942	17M9G7W
	16QAM			25.32	23.92	0.247	17931	17M9D7W

5G NR n66

Part 27								
EIRP Limit (W)		1.00						
Antenna Gain (dBi) Ant(2)		-1.40						
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	25.70	24.30	0.269	4470	4M47G7W
	QPSK			25.65	24.25	0.266	4474	4M47G7W
	16QAM			25.03	23.63	0.231	4474	4M47D7W
10.0	BPSK	1715.0	1775.0	25.59	24.19	0.262	8985	8M99G7W
	QPSK			25.70	24.30	0.269	8943	8M94G7W
	16QAM			25.16	23.76	0.238	8945	8M95D7W
15.0	BPSK	1717.5	1772.5	25.59	24.19	0.262	13453	13M5G7W
	QPSK			25.70	24.30	0.269	13480	13M5G7W
	16QAM			25.07	23.67	0.233	13418	13M4D7W
20.0	BPSK	1720.0	1770.0	25.65	24.25	0.266	17864	17M9G7W
	QPSK			25.70	24.30	0.269	17843	17M8G7W
	16QAM			25.05	23.65	0.232	17904	17M9D7W
25.0	BPSK	1722.5	1767.5	25.56	24.16	0.261	22892	22M9D7W
	QPSK			25.70	24.30	0.269	22945	22M9D7W
	16QAM			25.00	23.60	0.229	22877	22M9D7W
30.0	BPSK	1725.0	1765.0	25.66	24.26	0.267	28585	28M6G7W
	QPSK			25.70	24.30	0.269	28593	28M6G7W
	16QAM			25.19	23.79	0.239	28734	28M7D7W
35.0	BPSK	1727.5	1762.5	25.70	24.30	0.269	32205	32M2D7W
	QPSK			25.70	24.30	0.269	32120	32M1D7W
	16QAM			25.16	23.76	0.238	32213	32M2D7W
40.0	BPSK	1730.0	1760.0	25.60	24.20	0.263	38710	38M7G7W
	QPSK			25.70	24.30	0.269	38613	38M6G7W
	16QAM			24.64	23.24	0.211	38639	38M6D7W

5G NR n70

Part 27								
EIRP Limit (W)		1.00						
Antenna Gain (dBi) Ant 1)		-2.00						
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	1697.5	1707.5	25.69	23.69	0.234	4478	4M48G7W
	QPSK			25.70	23.70	0.234	4483	4M48G7W
	16QAM			25.12	23.12	0.205	4503	4M50D7W
10.0	BPSK	1700.0	1705.0	25.70	23.70	0.234	8978	8M98G7W
	QPSK			25.67	23.67	0.233	8928	8M93G7W
	16QAM			25.19	23.19	0.208	8961	8M96D7W
15.0	BPSK	1702.5	1702.5	25.70	23.70	0.234	13419	13M4G7W
	QPSK			25.59	23.59	0.229	13489	13M5G7W
	16QAM			24.96	22.96	0.198	13433	13M4D7W

LTE BAND 71

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi) (Ant 1)		-5.90						
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	665.5	695.5	25.70	17.65	0.058	4496	4M50G7W
	16QAM			25.13	17.08	0.051	4502	4M50D7W
10.0	QPSK	668.0	693.0	25.70	17.65	0.058	8979	8M98G7W
	16QAM			25.21	17.16	0.052	8962	8M96D7W
15.0	QPSK	670.5	690.5	25.70	17.65	0.058	13436	13M4G7W
	16QAM			25.25	17.20	0.052	13442	13M4D7W
20.0	QPSK	673.0	688.0	25.70	17.65	0.058	17830	17M8G7W
	16QAM			25.49	17.44	0.055	17897	17M9D7W

5G NR n71

Part 27								
ERP Limit (W)		3.00						
Antenna Gain (dBi) Ant 1)		-5.90						
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	665.5	695.5	25.70	17.65	0.058	4511	4M51G7W
	QPSK			25.70	17.65	0.058	4479	4M48G7W
	16QAM			25.13	17.08	0.051	4477	4M48D7W
10.0	BPSK	668.0	693.0	25.68	17.63	0.058	8960	8M96G7W
	QPSK			25.70	17.65	0.058	8967	8M97G7W
	16QAM			25.29	17.24	0.053	8939	8M94D7W
15.0	BPSK	670.5	690.5	25.69	17.64	0.058	13390	13M4D7W
	QPSK			25.70	17.65	0.058	13411	13M4D7W
	16QAM			25.37	17.32	0.054	13426	13M4D7W
20.0	BPSK	673.0	688.0	25.70	17.65	0.058	17838	17M8G7W
	QPSK			25.70	17.65	0.058	17843	17M8G7W
	16QAM			25.09	17.04	0.051	17900	17M9D7W

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

Part 27								
EIRP Limit (W)		1.00						
Antenna Gain (dBi) (Ant 7)		-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	28.70	25.80	0.380	8584	8M58G7W
	QPSK			28.70	25.80	0.380	8664	8M66G7W
	16QAM			27.75	24.85	0.305	8694	8M69D7W
15.0	BPSK	3457.5	3542.5	28.70	25.80	0.380	12894	12M9G7W
	QPSK			28.68	25.78	0.378	12954	13M0G7W
	16QAM			27.97	25.07	0.321	12942	12M9D7W
20.0	BPSK	3460.0	3540.0	28.68	25.78	0.378	17831	17M8G7W
	QPSK			28.70	25.80	0.380	17905	17M9G7W
	16QAM			27.78	24.88	0.308	17939	17M9D7W
30.0	BPSK	3465.0	3535.0	28.70	25.80	0.380	26802	26M8G7W
	QPSK			28.67	25.77	0.378	26866	26M9G7W
	16QAM			27.73	24.83	0.304	26851	26M9D7W
40.0	BPSK	3470.0	3530.0	28.70	25.80	0.380	35754	35M8G7W
	QPSK			28.70	25.80	0.380	35929	35M9G7W
	16QAM			27.58	24.68	0.294	35828	35M8D7W
50.0	BPSK	3475.0	3525.0	28.70	25.80	0.380	45713	45M7G7W
	QPSK			28.70	25.80	0.380	45662	45M7G7W
	16QAM			27.81	24.91	0.310	45741	45M7D7W
60.0	BPSK	3480.0	3520.0	28.70	25.80	0.380	57816	57M8G7W
	QPSK			28.70	25.80	0.380	57754	57M8G7W
	16QAM			27.70	24.80	0.302	57902	57M9D7W
70.0	BPSK	3485.0	3515.0	28.70	25.80	0.380	64295	64M3G7W
	QPSK			28.70	25.80	0.380	64508	64M5G7W
	16QAM			27.88	24.98	0.315	64340	64M3D7W
80.0	BPSK	3490.0	3510.0	28.70	25.80	0.380	77397	77M4G7W
	QPSK			28.68	25.78	0.378	77052	77M1G7W
	16QAM			27.89	24.99	0.316	77233	77M2D7W
90.0	BPSK	3495.0	3505.0	28.70	25.80	0.380	86706	86M7G7W
	QPSK			28.70	25.80	0.380	86866	86M9G7W
	16QAM			27.61	24.71	0.296	86825	86M8D7W
100.0	BPSK	3500.0	3500.0	28.70	25.80	0.380	96407	96M4G7W
	QPSK			28.54	25.64	0.366	96572	96M6G7W
	16QAM			27.49	24.59	0.288	96455	96M5D7W

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

Part 27								
EIRP Limit (W)		1.00						
Antenna Gain (dBi) (Ant 9)		-3.80						
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	28.70	24.90	0.309	8582	8M58G7W
	QPSK			28.70	24.90	0.309	8606	8M61G7W
	16QAM			27.96	24.16	0.261	8573	8M57D7W
15.0	BPSK	3707.5	3972.5	28.70	24.90	0.309	12938	12M9G7W
	QPSK			28.70	24.90	0.309	12881	12M9G7W
	16QAM			27.76	23.96	0.249	12933	12M9D7W
20.0	BPSK	3710.0	3970.0	28.70	24.90	0.309	17853	17M9G7W
	QPSK			28.70	24.90	0.309	17816	17M8G7W
	16QAM			27.89	24.09	0.256	17914	17M9D7W
30.0	BPSK	3715.0	3965.0	28.70	24.90	0.309	26873	26M9G7W
	QPSK			28.70	24.90	0.309	26828	26M8G7W
	16QAM			27.70	23.90	0.245	26800	26M8D7W
40.0	BPSK	3720.0	3960.0	28.70	24.90	0.309	35761	35M8G7W
	QPSK			28.70	24.90	0.309	35735	35M7G7W
	16QAM			27.79	23.99	0.251	35768	35M8D7W
50.0	BPSK	3725.0	3955.0	28.62	24.82	0.303	45684	45M7G7W
	QPSK			28.70	24.90	0.309	45750	45M8G7W
	16QAM			27.70	23.90	0.245	45795	45M8D7W
60.0	BPSK	3730.0	3950.0	28.70	24.90	0.309	57910	57M9G7W
	QPSK			28.70	24.90	0.309	57737	57M7G7W
	16QAM			27.76	23.96	0.249	57703	57M7D7W
70.0	BPSK	3735.0	3945.0	28.70	24.90	0.309	64339	64M3G7W
	QPSK			28.67	24.87	0.307	64361	64M4G7W
	16QAM			27.88	24.08	0.256	64475	64M5D7W
80.0	BPSK	3740.0	3940.0	28.70	24.90	0.309	77023	77M0G7W
	QPSK			28.63	24.83	0.304	76979	77M0G7W
	16QAM			28.06	24.26	0.267	77120	77M1D7W
90.0	BPSK	3745.0	3935.0	28.70	24.90	0.309	86652	86M7G7W
	QPSK			28.70	24.90	0.309	86759	86M8G7W
	16QAM			27.71	23.91	0.246	86713	86M7D7W
100.0	BPSK	3750.0	3930.0	28.70	24.90	0.309	96288	96M3G7W
	QPSK			28.68	24.88	0.308	96451	96M5G7W
	16QAM			28.00	24.20	0.263	96292	96M3D7W

6.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 0.13.02.

6.4. MAXIMUM ANTENNA GAIN

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

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	-2.1	-3.4	-0.9	-1.4			
LTE Band 4	1710 – 1755	-1.1	-3.9	-2.0	-2.8			
LTE Band 5, 5G NR n5	824 – 849	-4.6	-4.9	-7.2				
LTE Band 7, 5G NR n7	2500 – 2570	-1.8	-0.8	-1.2	-1.4			
LTE Band 12, 5G NR n12	699 – 716	-5.1	-5.4	-8.2				
LTE Band 13	777 – 787	-4.8	-5.6	-8.4				
LTE Band 14, 5G NR n14	788 – 798	-4.8	-5.6	-8.4				
LTE Band 17	704 – 716	-5.1	-5.4	-8.2				
LTE Band 25, 5G NR n25	1850 – 1915	-2.1	-3.4	-0.9	-1.4			
LTE Band 26, 5G NR 26	814 – 849	-4.6	-4.9	-7.2				
LTE Band 30, 5G NR n30	2305 – 2315	-4.9	-1.2	-2.6	-0.7			
LTE Band 41, 5G NR n41	2496 – 2690	-1.2	-1.4	-2.7	-1.6			
LTE Band 48, 5G NR n48 (Low)	3550 – 3600				-1.8	-2.9	-3.7	-2.2
LTE Band, 5G NR n48 48 (Mid)	3600 – 3650				-0.4	-3.5	-3.4	-2.5
LTE Band, 5G NR n48 48 (High)	3650 – 3700				-1.4	-3.9	-3.8	-3.2
LTE Band 66, 5G NR n66	1710 – 1780	-1.4	-4.6	-2.0	-3.4			
5G NR n70	1695 – 1710	-2.0	-6.2	-2.5	-3.3			
LTE Band 71, 5G NR n71	663 – 698	-5.9	-6.6	-10.7				
5G NR n77	3450-550				-2.2	-2.9	-4.9	-3.1
5G NR n77	3700 – 3980				-3.6	-4.3	-2.6	-3.8

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 n30, 5G NR n41, 5G NR n48, 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 5 and 5G NR n5 are covered by LTE Band 26 and 5G NR n26 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
LTE BAND 5 and 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 30 and 5G NR n30	
LTE BAND 41 and 5G NR n41	
LTE BAND 66 and 5G NR n66	
5G NR n70	
LTE BAND 71 and 5G NR n71	
5G NR n77	
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	X	X	N/A	N/A	N/A	N/A	N/A
1710 – 1915 MHz	X	X	Y	X	N/A	N/A	N/A
2300 – 2700 MHz	Y	Y	X	X	N/A	N/A	N/A
3300 – 3980 MHz	N/A	N/A	N/A	X	Y	Y	Y

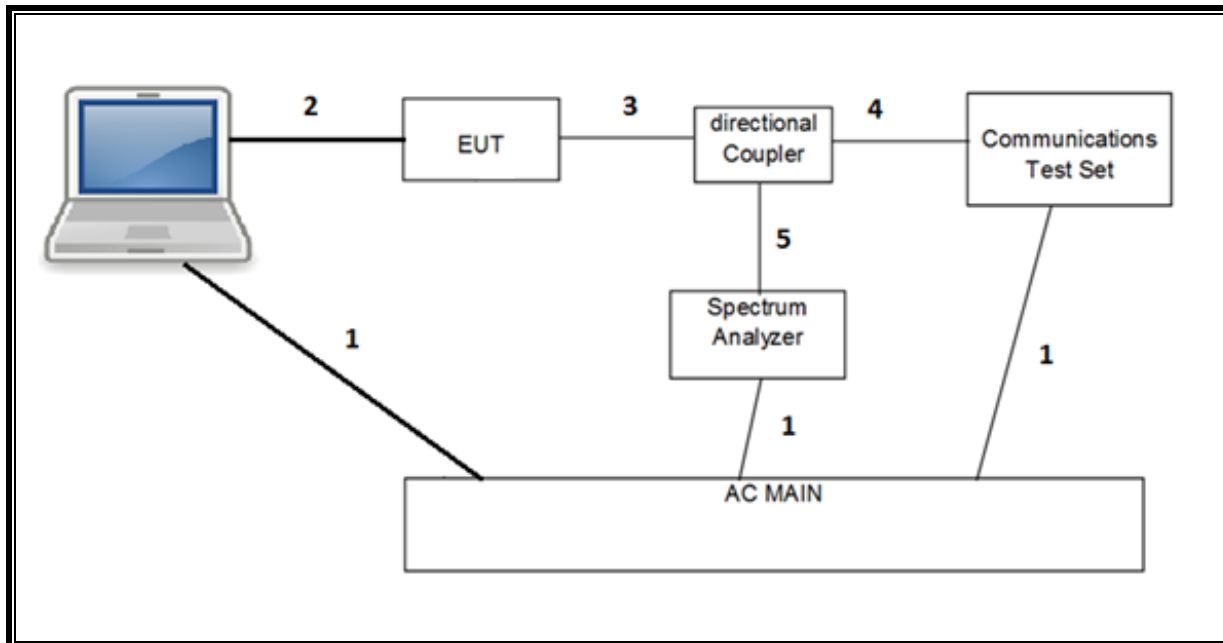
Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 18GHz. There were no emissions found with less than 20dB of margin from 9kHz to 30MHz, 30MHz-1GHz and above 18GHz.

For simultaneous transmission of multiple channels in the 2.4GHz/5GHz 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.

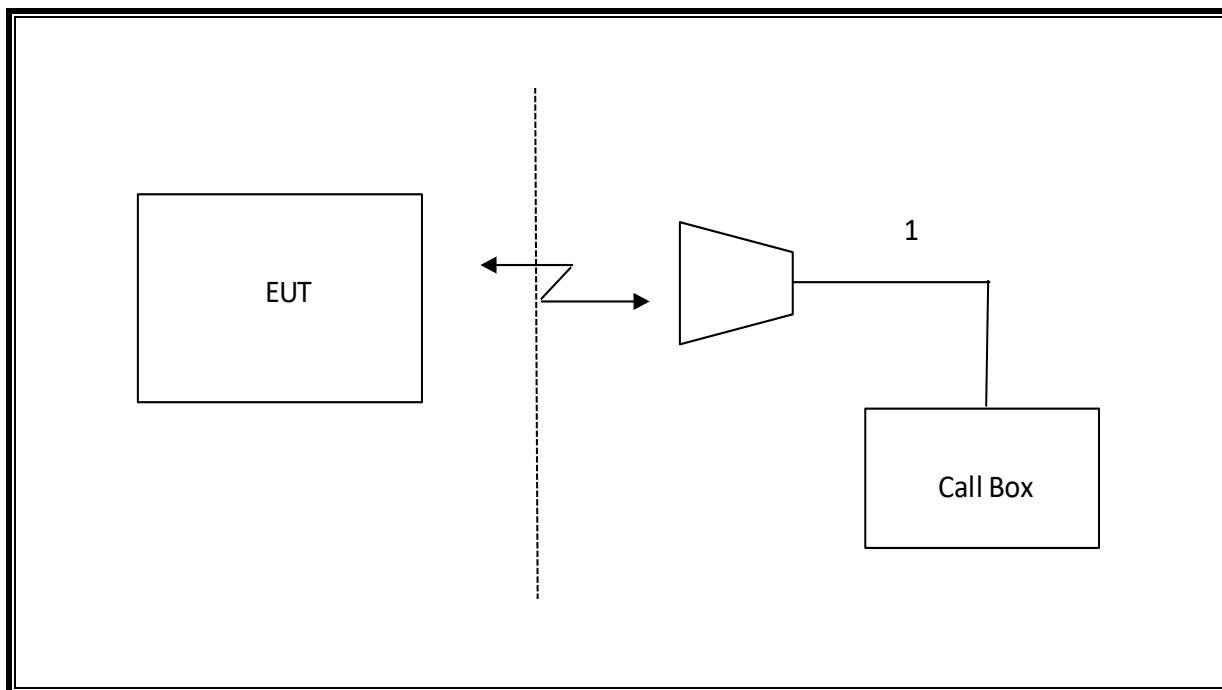
6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description	Manufacturer	Model	Serial Number	FCC ID/ DoC		
Laptop	Apple	MacBook Pro	HRP081469	--		
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	06/082203
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	85151	04/30/2024
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	85313	02/29/2024
Spectrum Analyzer, PXA	Keysight	N9030B	222074	07/16/2023
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	85201	02/29/2024
Spectrum Analyzer, PXA	Keysight	N9030B	85214	07/18/2023
Spectrum Analyzer, PXA	Keysight	N9030B	222073	07/22/2023
PXA Signal Analyzer	Keysight	N9030B	222073	07/22/2023
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	230548	02/29/2024
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201498	02/29/2024
Directional Coupler	KRYTAR	152610	198816	09/23/2023
Directional Coupler	KRYTAR	152610	198817	09/23/2023
Directional Coupler	KRYTAR	152610	135712	09/23/2023
Power Meter, P-series single channel	Keysight	N1912A	90630	01/24/2024
Power Meter, P-series single channel	Keysight	N1912A	90719	01/31/2024
Power Meter, P-series single channel	Agilent	N1911A	82174	01/31/2024
Power Sensor, P – series, 50MHz to 18GHz, Wideband	Keysight	N1921A	90389	01/31/2024
Filter, BRF 2495 – 2690 MHz	Micro-Tronics	155050	155055	12/28/2023
Filter, BRF 3.4 – 3.8GHz	Micro-Tronics	208398	208398	08/19/2023
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	222792	02/29/2024
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	230298	02/29/2024
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	230295	02/29/2024
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	22796	02/29/2024
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	230297	02/29/2024
*5G NR Communication Test Set, Call Box	Keysight	UXM	207269	01/31/2024
*5G NR Communication Test Set, Call Box	Keysight	UXM	199836	01/31/2024
*Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	82472	11/16/2023
*Amplifier, 218GHz to 26.5GHz	Amplical	AMP18G26.5-60	215705	02/26/2023
*Amplifier, 26.5GHz to 40GHz	Amplical	AMP26G40-65	172346	02/29/20224
Antenna, Horn 18 to 26.5GHz	ARA	MWH-1826/B	172362	03/31/2024
Antenna, Horn 26.5GHz to 40GHz	ARA	MWH-2640/B	172365	03/31/2024
*Antenna, Active Loop 100KHz to 30MHz	ELECTRO-METRICS	EM-6872	219911	05/10/2023
*Antenna, Active Loop 30Hz to 1MHz	ELECTRO-METRICS	EM-6871	219909	05/10/2023
10dB Fixed Attenuator	Pasternack Enterprises	PE7087-10	236360	N/A
10dB Fixed Attenuator	Pasternack Enterprises	PE7087-10	236285	N/A
10dB Fixed Attenuator	Pasternack Enterprises	PE7087-10	236355	N/A
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.

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
			20	>10	≤ 1
NS_04	6.6.2.2.2, 6.6.3.3.19	41	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:

8.2. LTE BAND 12 & 5G NR n12

LTE BAND 12

Test Engineer ID:	28498	Test Date:	1/31/2023
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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			ANT 3		
				23017	23095	23173	23017	23095	23173	23017	23095	23173
1.4	QPSK	1	0	25.61	25.57	25.64	24.62	24.66	24.69	25.37	25.30	25.37
		1	2	25.70	25.69	25.70	24.70	24.70	24.70	25.37	25.40	25.35
		1	5	25.68	25.70	25.70	24.68	24.66	24.63	25.38	25.37	25.35
		3	0	25.68	25.65	25.67	24.68	24.67	24.68	25.38	25.36	25.38
		3	1	25.69	25.68	25.66	24.67	24.66	24.64	25.37	25.34	25.35
		3	2	25.70	25.66	25.64	24.67	24.63	24.67	25.40	25.38	25.39
	16QAM	6	0	24.99	24.97	24.95	23.62	23.61	23.64	24.67	24.65	24.66
		1	0	25.13	25.29	25.30	23.84	23.73	23.84	24.89	24.95	25.00
		1	2	25.16	25.33	25.36	23.83	23.79	23.86	24.97	25.01	25.02
		1	5	25.19	25.33	25.30	23.80	23.86	23.84	24.87	24.99	25.05
		3	0	25.18	25.12	25.14	23.73	23.74	23.73	24.89	24.85	24.86
		3	1	25.18	25.20	25.15	23.74	23.76	23.73	24.91	24.82	24.86
	64QAM	3	2	25.20	25.18	25.15	23.74	23.75	23.72	24.89	24.82	24.86
		6	0	24.06	24.04	24.00	22.68	22.69	22.60	23.73	23.69	23.74
		1	0	24.25	24.22	24.35	22.82	22.80	22.86	23.88	23.98	24.01
		1	2	24.30	24.27	24.28	22.89	22.85	22.92	23.94	24.05	23.99
		1	5	24.30	24.16	24.24	22.79	22.77	22.83	23.89	23.98	24.00
		3	0	24.12	24.06	24.08	22.73	22.71	22.75	23.88	23.83	23.73
	256QAM	3	1	24.14	24.06	24.11	22.75	22.70	22.75	23.83	23.81	23.77
		3	2	24.14	24.08	24.14	22.73	22.67	22.75	23.83	23.81	23.71
		6	0	22.99	23.01	22.97	21.62	21.70	21.60	22.77	22.68	22.73
		1	0	21.06	20.97	21.08	19.69	19.65	19.79	20.64	20.76	20.77
		1	2	21.18	21.02	21.09	19.80	19.79	19.83	20.80	20.86	20.79
		1	5	21.07	21.02	21.02	19.78	19.77	19.68	20.72	20.81	20.74
	256QAM	3	0	21.08	20.95	20.99	19.70	19.68	19.71	20.69	20.73	20.63
		3	1	21.08	20.96	21.00	19.70	19.72	19.72	20.71	20.74	20.62
		3	2	21.10	20.96	21.02	19.72	19.70	19.73	20.72	20.74	20.63
		6	0	20.95	21.00	21.05	19.53	19.73	19.58	20.79	20.44	20.81

OUTPUT POWER FOR LTE BAND 12 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				23025	23095	23165	23025	23095	23165	23025	23095	23165
3.0	QPSK	1	0	25.61	25.63	25.58	24.62	24.61	24.61	25.30	25.28	25.29
		1	7	25.70	25.70	25.70	24.70	24.70	24.70	25.40	25.40	25.40
		1	14	25.61	25.58	25.59	24.63	24.56	24.60	25.27	25.27	25.28
		8	0	24.98	25.00	24.92	23.70	23.67	23.66	24.67	24.58	24.60
		8	4	25.01	25.03	24.94	23.71	23.69	23.68	24.71	24.69	24.61
		8	7	25.00	25.01	25.00	23.71	23.68	23.67	24.69	24.68	24.61
	16QAM	15	0	24.98	24.97	24.90	23.66	23.66	23.63	24.65	24.64	24.57
		1	0	25.25	25.26	25.23	23.77	23.81	23.78	24.91	24.96	24.96
		1	7	25.37	25.39	25.31	23.92	23.83	23.88	25.02	25.09	25.04
		1	14	25.26	25.21	25.19	23.75	23.77	23.69	24.90	24.94	24.93
		8	0	24.02	24.05	23.96	22.73	22.71	22.72	23.72	23.67	23.71
		8	4	24.06	24.06	23.98	22.74	22.73	22.74	23.75	23.77	23.73
	64QAM	8	7	24.06	24.08	24.03	22.74	22.71	22.74	23.75	23.76	23.71
		15	0	23.95	24.04	23.93	22.69	22.66	22.66	23.73	23.66	23.61
		1	0	24.20	24.22	24.24	22.95	22.86	22.86	23.83	23.87	23.89
		1	7	24.26	24.34	24.31	23.05	22.92	22.98	23.92	23.96	23.95
		1	14	24.26	24.25	24.28	22.91	22.88	22.83	23.87	23.90	23.89
		8	0	23.04	23.12	22.93	21.78	21.71	21.69	22.75	22.60	22.66
	256QAM	8	4	23.03	23.11	22.96	21.81	21.73	21.76	22.76	22.70	22.69
		8	7	23.04	23.15	23.04	21.79	21.75	21.74	22.75	22.70	22.70
		15	0	23.00	23.06	22.91	21.74	21.68	21.68	22.72	22.71	22.60
		1	0	21.02	21.03	20.97	19.72	19.69	19.72	20.76	20.65	20.64
		1	7	21.24	21.18	21.08	19.82	19.85	19.79	20.91	20.74	20.84
		1	14	21.02	21.03	21.01	19.73	19.72	19.68	20.78	20.69	20.70
	256QAM	8	0	21.00	21.03	20.89	19.73	19.69	19.70	20.73	20.62	20.60
		8	4	21.04	21.05	20.93	19.78	19.75	19.71	20.74	20.72	20.62
		8	7	21.01	21.04	21.00	19.76	19.71	19.70	20.72	20.73	20.61
		15	0	20.98	21.03	20.90	19.71	19.68	19.68	20.71	20.62	20.55

OUTPUT POWER FOR LTE BAND 12 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				23035	23095	23155	23035	23095	23155	23035	23095	23155
5.0	QPSK	1	0	25.65	25.57	25.66	24.57	24.59	24.61	25.26	25.28	25.30
		1	12	25.70	25.70	25.70	24.70	24.70	24.70	25.40	25.40	25.40
		1	24	25.61	25.51	25.54	24.54	24.57	24.54	25.29	25.26	25.25
		12	0	24.93	24.84	24.96	23.53	23.58	23.55	24.57	24.57	24.54
		12	6	25.02	24.93	24.96	23.62	23.66	23.57	24.68	24.67	24.58
		12	11	24.97	24.90	24.91	23.59	23.61	23.62	24.65	24.65	24.61
		25	0	24.99	24.88	24.94	23.59	23.64	23.52	24.65	24.65	24.56
	16QAM	1	0	25.30	25.29	25.32	23.79	23.83	23.84	24.97	24.94	25.03
		1	12	25.41	25.32	25.37	23.90	23.87	23.89	25.07	25.04	25.17
		1	24	25.28	25.23	25.24	23.74	23.79	23.81	24.98	24.84	24.99
		12	0	23.97	23.84	23.96	22.57	22.65	22.60	23.61	23.72	23.50
		12	6	24.06	23.94	23.95	22.69	22.75	22.62	23.73	23.83	23.52
		12	11	24.02	23.88	23.92	22.64	22.70	22.66	23.69	23.78	23.58
	64QAM	25	0	24.03	23.93	23.95	22.63	22.66	22.54	23.66	23.62	23.58
		1	0	24.22	24.15	24.23	22.65	22.73	22.69	23.84	23.87	23.96
		1	12	24.30	24.23	24.27	22.71	22.81	22.79	24.05	23.85	24.07
		1	24	24.25	24.12	24.20	22.60	22.75	22.65	23.91	23.79	23.99
		12	0	23.04	22.86	23.01	21.56	21.61	21.59	22.63	22.54	22.67
		12	6	23.16	22.94	23.04	21.66	21.71	21.60	22.73	22.64	22.67
		12	11	23.10	22.91	22.97	21.61	21.68	21.63	22.68	22.61	22.68
	256QAM	25	0	23.00	22.95	22.97	21.63	21.66	21.55	22.65	22.63	22.55
		1	0	21.08	21.05	21.03	19.64	19.71	19.63	20.75	20.71	20.72
		1	12	21.08	21.14	21.05	19.79	19.83	19.73	20.87	20.82	20.88
		1	24	21.09	20.92	20.91	19.67	19.74	19.64	20.76	20.69	20.80
		12	0	20.95	20.86	20.96	19.56	19.60	19.56	20.56	20.57	20.54
		12	6	21.02	20.97	20.97	19.69	19.72	19.59	20.66	20.68	20.59
		12	11	21.01	20.93	20.90	19.62	19.67	19.63	20.62	20.59	20.60
	25	0	20.98	20.90	20.92	19.61	19.66	19.55	20.60	20.62	20.53	

OUTPUT POWER FOR LTE BAND 12 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)									
				ANT 1			ANT 2			ANT 3			
				23060	23095	23130	23060	23095	23130	23060	23095	23130	
10.0	QPSK	1	0	25.70	25.70	25.70	24.70	24.70	24.70	25.38	25.40	25.40	
		1	24	25.66	25.70	25.69	24.69	24.62	24.69	25.40	25.40	25.36	
		1	49	25.57	25.58	25.53	24.57	24.54	24.58	25.30	25.35	25.25	
		25	0	24.94	24.93	24.92	23.62	23.57	23.63	24.63	24.68	24.64	
		25	12	25.01	25.01	24.91	23.72	23.64	23.61	24.72	24.76	24.69	
		25	24	24.97	24.98	24.95	23.67	23.60	23.64	24.66	24.70	24.66	
		50	0	25.00	24.93	24.89	23.68	23.61	23.59	24.71	24.74	24.67	
		16QAM	1	0	25.46	25.37	25.34	23.87	23.94	23.88	25.11	25.21	25.05
			1	24	25.34	25.31	25.22	23.86	23.79	23.79	24.98	25.07	24.99
	1		49	25.31	25.15	25.26	23.76	23.70	23.76	24.89	25.10	24.95	
	25		0	23.94	23.99	24.00	22.64	22.60	22.65	23.66	23.70	23.68	
	25		12	24.03	24.04	23.97	22.74	22.67	22.63	23.72	23.73	23.77	
	25		24	23.99	23.99	24.00	22.69	22.61	22.65	23.67	23.69	23.72	
	64QAM	50	0	24.00	23.93	23.88	22.68	22.65	22.59	23.69	23.72	23.69	
		1	0	24.35	24.31	24.35	22.92	22.90	22.97	23.93	24.01	23.89	
		1	24	24.29	24.31	24.28	22.89	22.89	22.96	23.99	23.97	23.81	
		1	49	24.28	24.21	24.17	22.83	22.78	22.78	23.95	23.89	23.77	
		25	0	22.96	22.95	22.93	21.65	21.62	21.65	22.66	22.70	22.65	
		25	12	23.06	23.04	22.91	21.73	21.67	21.63	22.75	22.79	22.72	
		25	24	23.00	22.96	22.91	21.69	21.63	21.67	22.70	22.70	22.65	
	256QAM	50	0	23.04	22.93	22.89	21.71	21.63	21.60	22.71	22.74	22.69	
		1	0	21.05	21.03	21.01	19.74	19.67	19.74	20.76	20.80	20.75	
		1	24	21.11	21.07	21.07	19.85	19.77	19.82	20.85	20.87	20.84	
		1	49	20.97	21.00	20.94	19.74	19.65	19.66	20.73	20.74	20.70	
		25	0	20.94	20.95	20.89	19.66	19.59	19.62	20.64	20.67	20.61	
		25	12	21.02	21.02	20.88	19.71	19.66	19.63	20.71	20.72	20.70	
		25	24	20.94	20.94	20.91	19.67	19.60	19.67	20.66	20.68	20.63	
	50	0	20.99	20.90	20.85	19.70	19.62	19.60	20.69	20.71	20.66		

5G NR n12

Test Engineer ID:	28568	Test Date:	1/30/2023
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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			ANT 3		
				140300	141500	142700	140300	141500	142700	140300	141500	142700
5.0	BPSK	1	0	25.57	25.40	25.51	24.45	24.43	24.47	24.99	25.18	25.20
		1	1	25.70	25.54	25.70	24.67	24.70	24.57	25.24	25.35	25.40
		1	23	25.63	25.50	25.65	24.64	24.63	24.70	25.19	25.37	25.28
		1	24	25.42	25.34	25.53	24.49	24.40	24.32	24.92	25.14	25.11
		12	6	25.68	25.64	25.66	24.70	24.63	24.59	25.20	25.33	25.28
	QPSK	25	0	25.42	25.40	25.44	24.45	24.35	24.33	24.92	25.07	25.05
		1	0	24.88	24.57	24.41	23.96	23.99	23.96	24.60	24.60	24.46
		1	1	25.67	25.54	25.45	24.63	24.65	24.67	25.40	25.36	25.36
		1	23	25.57	25.57	25.62	24.59	24.70	24.58	25.30	25.40	25.33
		1	24	24.55	24.59	24.59	23.95	23.91	23.97	24.29	24.62	24.52
	16QAM	12	6	25.67	25.70	25.58	24.65	24.54	24.58	25.21	25.34	25.23
		25	0	24.81	24.67	24.54	23.91	23.89	23.95	24.48	24.62	24.39
		1	0	23.69	23.86	23.50	23.01	22.70	22.72	23.38	23.78	23.48
		1	1	24.68	24.79	24.55	24.13	23.73	24.08	24.47	24.74	24.47
		1	23	24.31	24.91	24.81	24.02	23.91	23.71	24.41	24.78	24.49
	64QAM	1	24	23.31	23.94	23.80	22.96	22.84	22.79	23.45	23.69	23.43
		12	6	24.93	24.76	24.52	23.93	23.99	23.99	24.48	24.82	24.25
		25	0	23.88	23.82	23.51	22.87	22.97	22.93	23.48	23.74	23.33
		1	0	23.78	23.32	23.38	22.29	22.32	22.37	23.02	22.99	23.13
		1	1	23.79	23.32	23.38	22.50	22.55	22.37	22.96	23.18	23.09
	256QAM	1	23	23.42	23.36	23.58	22.42	22.14	22.33	22.90	23.15	23.04
		1	24	23.40	23.39	23.52	22.44	22.25	22.41	23.04	23.07	23.05
		12	6	23.33	23.33	23.17	22.49	22.53	22.52	22.94	23.12	22.86
		25	0	23.25	23.23	23.08	22.45	22.43	22.42	22.92	23.17	22.95
		1	0	21.75	21.46	21.64	20.41	20.28	20.73	21.06	21.54	21.18

OUTPUT POWER FOR 5G NR n12 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				140800	141500	142200	140800	141500	142200	140800	141500	142200
10.0	BPSK	704.0	707.5	711.0	704.0	707.5	711.0	704.0	707.5	711.0		
		1	0	25.55	25.41	25.63	24.54	24.50	24.57	25.16	25.26	25.24
		1	1	25.70	25.70	25.70	24.70	24.70	24.67	25.39	25.35	25.28
		1	50	25.59	25.60	25.68	24.61	24.59	24.61	25.26	25.29	25.27
		1	51	25.36	25.29	25.39	24.37	24.35	24.40	25.06	25.11	25.03
	QPSK	25	12	25.49	25.50	25.64	24.58	24.53	24.69	25.24	25.23	25.25
		50	0	25.34	25.38	25.46	24.41	24.41	24.51	25.07	25.04	25.07
		1	0	24.73	24.24	24.57	23.97	23.97	24.12	24.61	24.50	24.69
		1	1	25.61	25.23	25.60	24.66	24.58	24.70	25.40	25.40	25.40
		1	50	25.55	25.07	25.57	24.58	24.48	24.63	25.30	25.35	25.30
	16QAM	1	51	24.56	24.07	24.52	23.91	23.66	23.88	24.54	24.33	24.56
		25	12	25.53	25.61	25.52	24.59	24.63	24.68	25.28	25.25	25.32
		50	0	24.60	24.45	24.48	23.85	24.02	23.99	24.56	24.55	24.57
		1	0	23.80	22.98	23.99	23.05	23.39	22.66	23.80	23.71	23.65
		1	1	24.78	24.18	24.96	24.06	24.20	23.75	24.85	24.66	24.59
	64QAM	1	50	24.63	23.96	24.88	24.03	24.07	23.68	24.75	24.73	24.48
		1	51	23.60	22.79	23.85	23.03	23.08	22.51	23.76	23.73	23.37
		25	12	24.63	24.60	24.64	23.80	23.85	23.98	24.66	24.50	24.68
		50	0	23.59	23.59	23.61	23.01	22.99	23.01	23.62	23.52	23.64
		1	0	23.58	22.98	23.41	22.60	22.36	22.74	23.00	23.45	23.15
	256QAM	1	1	23.62	22.96	23.49	22.80	22.48	22.63	23.13	23.49	23.24
		1	50	23.46	22.84	23.39	22.39	22.42	22.60	22.96	23.31	23.07
		1	51	23.43	22.81	23.44	22.44	22.44	22.45	22.96	23.32	23.09
		25	12	23.14	23.15	23.08	22.54	22.42	22.42	23.04	22.99	23.11
		50	0	23.12	23.03	23.11	22.49	22.49	22.50	23.13	23.09	23.15

OUTPUT POWER FOR 5G NR n12 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				141300	141500	141700	141300	141500	141700	141300	141500	141700
15.0	BPSK	1	0	25.70	25.65	25.62	24.41	24.51	24.53	25.28	25.20	25.32
		1	1	25.70	25.70	25.70	24.64	24.70	24.70	25.40	25.36	25.40
		1	77	25.66	25.61	25.54	24.38	24.44	24.44	25.35	25.22	25.33
		1	78	25.46	25.32	25.32	24.20	24.27	24.31	25.11	24.99	25.14
		36	18	25.63	25.58	25.57	24.45	24.53	24.47	25.10	25.17	25.17
		75	0	25.56	25.46	25.43	24.33	24.40	24.28	25.10	25.01	25.09
		1	0	24.49	24.66	24.37	24.04	23.99	23.95	24.55	24.50	24.44
		1	1	25.55	25.65	25.41	24.70	24.69	24.68	25.32	25.40	25.39
		1	77	25.10	25.30	25.32	24.51	24.48	24.41	25.03	25.17	25.18
	1	78	24.11	24.28	24.28	23.72	23.76	23.68	24.01	24.38	24.41	
	36	18	25.40	25.47	25.47	24.55	24.55	24.56	25.19	25.28	25.30	
	75	0	24.27	24.22	24.24	23.86	23.92	23.91	24.56	24.53	24.43	
	1	0	23.64	23.74	23.75	22.93	23.10	22.98	23.63	23.46	23.68	
	1	1	24.61	24.73	24.76	23.86	24.19	23.97	24.61	24.44	24.68	
	1	77	24.07	24.55	24.68	23.58	23.91	23.75	24.34	24.18	24.84	
	1	78	23.16	23.53	23.56	22.67	22.95	22.78	23.35	23.19	23.57	
	36	18	24.58	24.64	24.59	23.88	23.92	23.84	24.47	24.56	24.58	
	75	0	23.40	23.44	23.44	22.83	22.93	22.90	23.61	23.50	23.59	
	1	0	23.33	23.37	23.28	22.31	22.51	22.62	23.19	23.66	23.20	
	1	1	23.32	23.26	23.26	22.52	22.59	22.33	23.21	23.49	23.23	
	1	77	22.92	23.10	23.06	22.31	22.37	22.05	22.87	23.49	22.94	
	1	78	22.97	23.00	23.18	22.00	22.41	22.01	22.88	23.41	22.96	
	36	18	23.09	23.22	23.07	22.37	22.51	22.43	23.04	23.36	23.08	
	75	0	22.95	22.99	22.89	22.41	22.47	22.33	23.04	23.31	23.10	
	1	0	21.51	21.65	21.86	20.75	20.75	20.57	21.38	21.53	21.36	
	1	1	21.43	21.62	21.73	20.73	20.70	20.49	21.27	21.61	21.25	
	1	77	21.31	21.43	21.50	20.58	20.59	20.23	21.14	21.44	21.29	
	1	78	21.18	21.34	21.56	20.40	20.47	20.27	21.15	21.38	21.26	
	36	18	21.38	21.55	21.49	20.33	20.39	20.28	21.07	21.29	21.12	
	75	0	21.47	21.44	21.39	20.28	20.36	20.30	21.16	21.39	21.19	

8.3. LTE BAND 13

Test Engineer ID:	28498	Test Date:	2/1/2023
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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			ANT 3		
				23205	23230	23255	23205	23230	23255	23205	23230	23255
5.0	QPSK	1	0	25.62	25.63	25.59	24.63	24.64	24.64	25.27	25.33	25.29
		1	12	25.70	25.70	25.70	24.70	24.70	24.70	25.40	25.40	25.40
		1	24	25.59	25.58	25.59	24.58	24.57	24.56	25.22	25.29	25.23
		12	0	24.91	24.86	24.86	23.62	23.60	23.52	24.52	24.57	24.54
		12	6	25.01	24.96	24.96	23.64	23.63	23.55	24.56	24.73	24.56
		12	11	24.96	24.92	24.91	23.59	23.57	23.58	24.58	24.66	24.61
		25	0	24.96	24.95	24.94	23.61	23.58	23.49	24.57	24.65	24.51
	16QAM	1	0	25.15	25.09	25.13	23.76	23.73	23.75	24.94	25.09	24.93
		1	12	25.22	25.23	25.25	23.79	23.82	23.82	25.05	25.19	24.99
		1	24	25.14	25.16	25.12	23.68	23.71	23.69	24.83	25.04	24.91
		12	0	23.93	23.82	23.92	22.69	22.69	22.53	23.62	23.77	23.52
		12	6	24.03	23.93	24.02	22.70	22.74	22.58	23.72	23.91	23.55
		12	11	24.02	23.88	23.97	22.67	22.68	22.61	23.66	23.84	23.59
		25	0	23.97	23.98	23.94	22.61	22.62	22.51	23.61	23.75	23.52
	64QAM	1	0	24.17	24.23	24.27	22.75	22.83	22.83	23.79	23.98	23.86
		1	12	24.25	24.33	24.32	22.77	22.88	22.84	23.83	24.06	23.87
		1	24	24.22	24.23	24.26	22.71	22.80	22.79	23.68	23.93	23.80
		12	0	22.89	22.95	22.94	21.67	21.66	21.53	22.57	22.65	22.52
		12	6	23.02	23.06	23.05	21.67	21.66	21.56	22.67	22.76	22.55
		12	11	22.97	23.04	23.02	21.66	21.67	21.62	22.62	22.71	22.57
		25	0	22.97	22.96	22.97	21.66	21.62	21.53	22.58	22.63	22.51
	256QAM	1	0	21.05	21.02	21.03	19.80	19.70	19.70	20.64	20.71	20.55
		1	12	21.15	21.17	21.15	19.84	19.70	19.84	20.70	20.92	20.69
		1	24	21.06	21.09	21.08	19.73	19.64	19.70	20.60	20.77	20.57
		12	0	20.89	20.89	20.87	19.65	19.65	19.50	20.46	20.56	20.49
12		6	20.99	21.00	20.96	19.68	19.70	19.56	20.61	20.67	20.52	
12		11	20.96	20.96	20.90	19.65	19.66	19.62	20.52	20.62	20.58	
25		0	20.95	20.96	20.95	19.65	19.65	19.54	20.56	20.61	20.47	

OUTPUT POWER FOR LTE BAND 13 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				N/A	23230	N/A	N/A	23230	N/A	N/A	23230	N/A
10.0	QPSK	1	0	N/A	782.0	N/A	N/A	782.0	N/A	N/A	782.0	N/A
		1	24		25.70			24.70			25.40	
		1	49		25.67			24.61			25.38	
		25	0		25.60			24.54			25.28	
		25	12		24.97			23.66			24.65	
		25	24		25.02			23.63			24.71	
		50	0		24.96			23.60			24.66	
	16QAM	1	0		24.92			23.63			24.70	
		1	24		25.19			23.86			25.03	
		1	49		25.12			23.74			24.95	
		25	0		25.09			23.72			24.96	
		25	12		23.96			22.67			23.71	
		25	24		23.99			22.64			23.78	
		50	0		23.96			22.62			23.73	
	64QAM	1	0		23.90			22.63			23.73	
		1	24		24.25			22.91			24.01	
		1	49		24.27			22.87			23.98	
		25	0		24.13			22.83			23.86	
		25	12		22.92			21.70			22.63	
		25	24		22.98			21.67			22.70	
		50	0		22.94			21.63			22.64	
	256QAM	1	0		22.86			21.66			22.67	
		1	24		20.88			19.71			20.75	
		1	49		21.00			19.71			20.83	
		25	0		20.91			19.68			20.71	
25		12		20.91			19.66			20.60		
25		24		20.96			19.68			20.67		
50		0		20.92			19.64			20.62		
			20.88			19.65			20.65			

8.4. LTE BAND 14 AND 5G NR n14

LTE Band 14

Test Engineer ID:	28567	Test Date:	2/1/2023
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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			ANT 3		
				23305	23330	23355	23305	23330	23355	23305	23330	23355
5.0	QPSK	1	0	25.60	25.56	25.55	24.59	24.64	24.59	25.28	25.25	25.25
		1	12	25.70	25.70	25.70	24.70	24.70	24.70	25.40	25.34	25.34
		1	24	25.60	25.56	25.50	24.55	24.60	24.57	25.23	25.24	25.21
		12	0	24.83	24.82	24.77	23.61	23.57	23.54	24.61	24.58	24.51
		12	6	24.94	24.95	24.80	23.62	23.67	23.65	24.62	24.59	24.51
		12	11	24.92	24.89	24.83	23.60	23.63	23.60	24.58	24.56	24.59
		25	0	24.91	24.88	24.77	23.60	23.66	23.59	24.59	24.57	24.49
		25	12	25.24	25.23	25.19	23.69	23.80	23.73	24.93	24.90	24.95
	16QAM	1	12	25.34	25.33	25.28	23.83	23.84	23.81	24.99	25.04	25.09
		1	24	25.24	25.20	25.16	23.76	23.78	23.73	24.95	24.88	24.95
		12	0	23.92	23.83	23.73	22.65	22.52	22.58	23.72	23.65	23.52
		12	6	24.01	23.92	23.78	22.67	22.63	22.68	23.75	23.65	23.57
		12	11	23.98	23.90	23.80	22.65	22.61	22.65	23.69	23.64	23.59
		25	0	23.90	23.90	23.73	22.65	22.67	22.61	23.63	23.60	23.52
		1	0	24.21	24.10	24.08	22.82	22.73	22.67	23.93	23.87	23.92
		1	12	24.21	24.20	24.14	22.88	22.78	22.72	23.91	23.85	23.99
	64QAM	1	24	24.13	24.07	24.10	22.80	22.73	22.67	23.85	23.78	23.92
		12	0	22.98	23.02	22.81	21.70	21.65	21.58	22.64	22.66	22.54
		12	6	23.06	23.13	22.84	21.70	21.74	21.69	22.65	22.67	22.55
		12	11	23.03	23.10	22.87	21.66	21.71	21.65	22.63	22.64	22.58
		25	0	22.86	22.87	22.78	21.65	21.68	21.65	22.60	22.59	22.54
		1	0	20.94	20.87	20.86	19.74	19.77	19.67	20.59	20.57	20.67
		1	12	21.09	20.98	21.06	19.84	19.77	19.88	20.69	20.71	20.85
		1	24	21.03	20.96	20.99	19.75	19.74	19.69	20.62	20.62	20.77
	256QAM	12	0	20.81	20.80	20.74	19.65	19.61	19.56	20.61	20.60	20.51
		12	6	20.92	20.93	20.78	19.68	19.71	19.67	20.63	20.63	20.57
		12	11	20.89	20.88	20.85	19.64	19.71	19.62	20.60	20.59	20.58
		25	0	20.87	20.88	20.77	19.65	19.71	19.60	20.58	20.58	20.49

OUTPUT POWER FOR LTE BAND 14 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				N/A	23330	N/A	N/A	23330	N/A	N/A	23330	N/A
10.0	QPSK	1	0		25.67			24.70			25.31	
		1	24		25.70			24.70			25.32	
		1	49		25.66			24.63			25.27	
		25	0		24.92			23.66			24.63	
		25	12		25.01			23.74			24.63	
		25	24		24.98			23.71			24.59	
		50	0		24.98			23.70			24.63	
		50	12		25.27			23.89			24.97	
	16QAM	1	24		25.26			23.85			24.89	
		1	49		25.28			23.83			24.89	
		25	0		23.96			22.68			23.69	
		25	12		24.03			22.73			23.71	
		25	24		24.01			22.72			23.62	
		50	0		23.99			22.70			23.62	
		1	0		24.29			22.90			24.02	
		1	24		24.28			23.01			23.91	
	64QAM	1	49		24.24			22.86			23.93	
		25	0		22.93			21.67			22.66	
		25	12		23.02			21.76			22.63	
		25	24		22.99			21.74			22.62	
		50	0		22.99			21.76			22.62	
		1	0		21.02			19.81			20.75	
		1	24		21.11			19.89			20.82	
		1	49		21.03			19.83			20.70	
	256QAM	25	0		20.90			19.71			20.62	
		25	12		21.00			19.77			20.62	
		25	24		20.97			19.74			20.57	
		50	0		20.97			19.75			20.59	

5G NR n14

Test Engineer ID:	28568	Test Date:	1/31/2023
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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			ANT 3		
				158100	158600	159100	158100	158600	159100	158100	158600	159100
5.0	BPSK	1	0	23.49	23.70	23.46	22.49	22.70	22.59	23.31	23.40	23.36
		1	1	25.60	25.60	25.42	24.52	24.66	24.70	25.23	25.26	25.28
		1	23	25.65	25.60	25.44	24.48	24.60	24.58	25.20	25.23	25.16
		1	24	23.68	23.70	23.48	22.63	22.69	22.70	23.40	23.39	23.37
		12	6	25.66	25.66	25.55	24.59	24.69	24.60	25.16	25.18	25.18
		25	0	25.44	25.46	25.23	24.36	24.43	24.28	24.63	24.69	24.59
	QPSK	1	0	23.61	23.70	23.55	22.59	22.66	22.70	23.35	23.40	23.37
		1	1	25.65	25.63	25.70	24.70	24.61	24.68	25.31	25.22	25.30
		1	23	25.70	25.70	25.66	24.70	24.59	24.56	25.32	25.19	25.15
		1	24	23.70	23.67	23.46	22.70	22.67	22.61	23.40	23.31	23.30
		12	6	25.68	25.66	25.55	24.56	24.70	24.62	25.24	25.25	25.25
		25	0	25.00	25.00	24.78	23.89	23.96	23.85	24.19	24.21	24.19
	16QAM	1	0	23.70	23.70	23.66	22.22	22.70	22.42	23.23	23.40	23.08
		1	1	24.96	24.89	24.88	23.75	24.12	23.98	24.54	24.56	24.19
		1	23	24.99	24.94	24.78	23.81	24.10	23.80	24.46	24.46	24.13
		1	24	23.70	23.68	23.57	22.39	22.70	22.40	23.37	23.40	23.11
		12	6	24.87	25.07	24.81	23.86	23.90	23.88	24.15	24.17	24.17
		25	0	23.92	23.94	23.75	22.83	22.92	22.87	23.18	23.18	23.11
	64QAM	1	0	23.58	23.70	23.30	22.52	22.44	22.39	22.60	22.52	22.53
		1	1	23.69	23.63	23.47	22.61	22.38	22.51	22.64	22.38	22.53
		1	23	23.89	23.68	23.43	22.43	22.35	22.36	22.56	22.40	22.37
		1	24	23.70	23.45	23.13	22.36	22.32	22.16	22.52	22.49	22.41
		12	6	23.39	23.43	23.19	22.33	22.47	22.41	22.63	22.77	22.61
		25	0	23.48	23.46	23.17	22.38	22.44	22.35	22.67	22.77	22.70
	256QAM	1	0	21.38	21.56	21.18	20.23	20.31	20.56	20.28	20.66	20.71
		1	1	21.42	21.47	21.03	20.25	20.16	20.52	20.31	20.59	20.77
		1	23	21.41	21.55	21.10	20.32	20.20	20.30	20.42	20.66	20.70
		1	24	21.50	21.54	21.11	20.34	20.30	20.43	20.40	20.60	20.66
		12	6	21.63	21.48	21.30	20.37	20.38	20.30	20.64	20.68	20.68
		25	0	21.65	21.48	21.20	20.21	20.34	20.31	20.60	20.67	20.68

OUTPUT POWER FOR 5G NR n14 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				N/A	158600	N/A	N/A	158600	N/A	N/A	158600	N/A
10.0	BPSK	1	0	N/A	793.0	N/A	N/A	793.0	N/A	N/A	793.0	N/A
		1	1		23.70			22.70			23.40	
		1	50		25.58			24.67			25.25	
		1	51		25.61			24.59			25.19	
		1	51		23.70			22.70			23.40	
		25	12		25.62			24.68			25.17	
	QPSK	50	0		25.44			22.70			23.40	
		1	0		23.70			22.70			23.23	
		1	1		25.64			24.70			25.20	
		1	50		25.70			24.58			23.40	
		1	51		23.70			22.70			23.12	
		25	12		25.67			24.70			25.21	
	16QAM	50	0		24.94			24.01			24.18	
		1	0		23.70			22.70			23.33	
		1	1		25.08			24.13			24.65	
		1	50		25.11			24.06			24.54	
		1	51		24.13			22.02			23.30	
		25	12		23.70			22.70			24.30	
	64QAM	50	0		23.95			22.99			23.23	
		1	0		23.56			22.56			22.32	
		1	1		23.44			22.48			22.30	
		1	50		23.45			22.34			22.31	
		1	51		23.55			22.37			22.27	
		25	12		23.33			22.51			22.76	
	256QAM	50	0		23.42			22.56			22.64	
		1	0		21.36			20.62			20.70	
		1	1		21.08			20.62			20.60	
		1	50		21.26			20.66			20.61	
		1	51		21.19			20.68			20.59	
		25	12		21.47			20.50			20.67	
	50	0		21.41			20.46			20.66		

8.5. LTE BAND 17

Test Engineer ID:	28567	Test Date:	2/1/2023
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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			ANT 3		
				23755	23790	23825	23755	23790	23825	23755	23790	23825
5.0	QPSK	1	0	25.56	25.57	25.58	24.57	24.60	24.56	25.31	25.25	25.30
		1	12	25.70	25.70	25.70	24.70	24.70	24.70	25.40	25.40	25.40
		1	24	25.54	25.58	25.51	24.55	24.54	24.51	25.28	25.25	25.28
		12	0	24.86	24.86	24.80	23.55	23.57	23.52	24.61	24.55	24.60
		12	6	24.97	24.97	24.83	23.62	23.68	23.53	24.71	24.64	24.71
		12	11	24.94	24.89	24.87	23.58	23.63	23.54	24.67	24.59	24.65
		25	0	24.92	24.87	24.81	23.59	23.63	23.50	24.65	24.61	24.68
		1	0	25.20	25.18	24.99	23.77	23.81	23.75	24.98	24.94	25.06
		1	12	25.28	25.06	25.19	23.87	23.92	23.83	25.09	25.00	25.16
	1	24	25.24	25.01	25.07	23.71	23.82	23.75	24.95	24.83	25.03	
	16QAM	12	0	23.88	23.93	23.94	22.52	22.60	22.60	23.66	23.59	23.70
		12	6	23.98	24.01	23.94	22.64	22.70	22.63	23.75	23.65	23.79
		12	11	23.95	23.96	23.98	22.60	22.64	22.67	23.72	23.61	23.76
		25	0	23.95	23.92	23.82	22.65	22.64	22.51	23.67	23.62	23.73
		1	0	24.28	24.18	24.15	22.78	22.67	22.69	22.71	22.75	22.80
		1	12	24.30	24.26	24.24	22.80	22.79	22.77	22.73	22.86	22.81
		1	24	24.29	24.14	24.09	22.66	22.66	22.67	22.64	22.77	22.73
		12	0	22.87	22.90	22.85	21.58	21.59	21.55	21.42	21.44	21.56
		12	6	22.96	23.00	22.90	21.69	21.71	21.55	21.50	21.54	21.66
	12	11	22.93	22.98	22.95	21.65	21.65	21.61	21.46	21.47	21.59	
	256QAM	25	0	22.98	22.93	22.85	21.65	21.66	21.55	21.47	21.48	21.53
		1	0	21.07	21.02	20.92	19.62	19.68	19.72	19.56	19.50	19.62
		1	12	21.17	21.12	21.05	19.80	19.78	19.80	19.69	19.70	19.73
		1	24	21.12	21.04	20.96	19.67	19.67	19.68	19.58	19.52	19.59
		12	0	20.89	20.86	20.85	19.59	19.59	19.53	19.42	19.43	19.44
		12	6	21.00	20.95	20.88	19.68	19.68	19.55	19.53	19.52	19.54
		12	11	20.97	20.90	20.90	19.65	19.63	19.59	19.46	19.46	19.51
		25	0	20.94	20.88	20.83	19.63	19.65	19.53	19.50	19.46	19.53

OUTPUT POWER FOR LTE BAND 17 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				23780	23790	23800	23780	23790	23800	23780	23790	23800
10.0	QPSK	1	0	25.70	25.70	25.70	24.70	24.70	24.70	25.40	25.40	25.40
		1	24	25.69	25.65	25.69	24.63	24.65	24.68	25.39	25.37	25.34
		1	49	25.57	25.58	25.61	24.52	24.56	24.55	25.30	25.29	25.28
		25	0	24.92	24.91	24.93	23.57	23.59	23.59	24.64	24.64	24.64
		25	12	25.02	24.94	24.97	23.65	23.66	23.67	24.71	24.70	24.63
		25	24	24.88	24.88	24.95	23.60	23.60	23.61	24.66	24.66	24.66
		50	0	24.83	24.79	24.86	23.62	23.65	23.65	24.70	24.70	24.58
		1	0	24.93	25.03	25.15	23.73	23.86	23.85	25.08	25.21	25.03
		1	24	25.12	25.07	25.03	23.70	23.77	23.77	24.98	25.02	24.92
	16QAM	1	49	24.97	24.99	25.02	23.68	23.72	23.73	24.92	25.11	24.93
		25	0	23.96	23.93	23.95	22.60	22.62	22.60	23.69	23.68	23.61
		25	12	24.02	24.02	24.04	22.66	22.69	22.67	23.76	23.75	23.61
		25	24	24.00	23.96	23.98	22.60	22.64	22.66	23.70	23.72	23.65
		50	0	23.98	23.96	24.00	22.64	22.67	22.65	23.71	23.70	23.59
		1	0	24.31	24.32	24.39	22.84	22.90	22.94	22.80	22.87	22.72
		1	24	24.35	24.26	24.34	22.84	22.83	22.89	22.79	22.85	22.68
		1	49	24.23	24.24	24.23	22.71	22.78	22.83	22.68	22.72	22.63
		25	0	22.97	22.93	22.99	21.57	21.61	21.60	21.48	21.52	21.50
	256QAM	25	12	23.05	23.03	23.05	21.68	21.71	21.67	21.55	21.58	21.48
		25	24	23.00	22.97	22.99	21.62	21.64	21.62	21.48	21.52	21.51
		50	0	23.02	22.98	23.03	21.65	21.67	21.66	21.51	21.59	21.45
		1	0	21.09	21.08	21.08	19.66	19.70	19.77	19.55	19.63	19.62
		1	24	21.14	21.18	21.13	19.75	19.77	19.86	19.69	19.74	19.72
		1	49	21.07	21.07	21.00	19.64	19.67	19.74	19.49	19.55	19.54
		25	0	20.91	20.91	20.96	19.59	19.62	19.62	19.49	19.50	19.49
		25	12	21.02	21.00	21.04	19.67	19.69	19.69	19.54	19.57	19.46
		25	24	20.98	20.94	20.99	19.62	19.66	19.63	19.48	19.51	19.46
	50	0	20.98	20.96	20.98	19.63	19.67	19.66	19.48	19.54	19.41	

8.6. LTE BAND 25 AND 5G NR n25

LTE BAND 25

Test Engineer ID:	28567	Test Date:	2/2/2023
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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 1850.7	26365 1882.5	26683 1914.3	26047 1850.7	26365 1882.5	26683 1914.3	26047 1850.7	26365 1882.5	26683 1914.3	26047 1850.7	26365 1882.5	26683 1914.3
1.4	QPSK	1	0	25.66	25.63	25.63	23.37	23.36	23.39	25.15	25.43	25.46	21.88	22.89	22.87
		1	2	25.66	25.63	25.68	23.40	23.40	23.40	25.33	25.46	25.50	22.90	22.90	22.90
		1	5	25.67	25.66	25.67	23.35	23.38	23.37	25.38	25.45	25.50	22.88	22.88	22.85
		3	0	25.70	25.65	25.66	23.36	23.36	23.37	25.42	25.46	25.48	22.89	22.86	22.85
		3	1	25.70	25.63	25.67	23.36	23.34	23.37	25.45	25.48	25.50	22.88	22.88	22.86
		3	2	25.69	25.70	25.70	23.36	23.34	23.38	25.50	25.50	25.48	22.88	22.86	22.87
	16QAM	6	0	24.94	24.92	24.95	22.36	22.38	22.34	24.59	24.56	24.52	21.86	21.87	21.81
		1	0	25.11	25.13	25.20	22.51	22.52	22.46	24.87	24.70	24.71	22.24	22.10	22.17
		1	2	25.09	25.13	25.22	22.59	22.56	22.51	24.91	24.73	24.73	22.22	22.13	22.15
		1	5	25.18	25.13	25.20	22.55	22.43	22.49	24.95	24.74	24.73	22.25	22.10	22.13
		3	0	25.07	25.07	25.03	22.50	22.50	22.44	24.76	24.69	24.68	22.08	22.03	22.03
		3	1	25.08	25.02	25.01	22.52	22.50	22.47	24.81	24.70	24.67	22.12	22.03	22.06
	64QAM	3	2	25.08	25.04	25.06	22.54	22.49	22.45	24.82	24.71	24.69	22.10	22.05	22.04
		6	0	24.00	23.83	24.01	21.47	21.33	21.45	23.74	23.65	23.52	20.97	20.93	20.87
		1	0	24.13	24.05	24.18	21.60	21.57	21.57	23.97	23.73	23.70	22.00	21.38	21.56
		1	2	24.20	24.10	24.15	21.61	21.65	21.61	24.01	23.85	23.76	22.02	21.45	21.71
		1	5	24.14	24.10	24.10	21.56	21.56	21.57	23.91	23.76	23.77	21.94	21.36	21.62
		3	0	24.06	24.03	24.04	21.40	21.53	21.51	23.88	23.71	23.67	21.81	21.35	21.43
	256QAM	3	1	24.05	24.08	24.07	21.39	21.52	21.51	23.84	23.72	23.70	21.80	21.34	21.42
		3	2	24.08	24.06	24.04	21.37	21.54	21.52	23.88	23.71	23.70	21.83	21.39	21.45
		6	0	22.90	22.94	22.93	20.45	20.48	20.43	22.80	22.64	22.52	20.70	20.23	20.39
		1	0	21.08	21.07	21.03	18.58	18.59	18.52	20.97	20.65	20.65	18.70	18.46	18.51
		1	2	21.12	21.04	21.09	18.54	18.62	18.54	20.96	20.61	20.72	18.74	18.57	18.66
		1	5	21.00	21.05	21.02	18.44	18.43	18.40	20.92	20.67	20.73	18.66	18.52	18.63

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 1851.5	26365 1882.5	26675 1913.5	26055 1851.5	26365 1882.5	26675 1913.5	26055 1851.5	26365 1882.5	26675 1913.5	26055 1851.5	26365 1882.5	26675 1913.5
3.0	QPSK	1	0	25.62	25.56	25.63	23.29	23.26	23.31	25.39	25.31	25.33	22.79	22.75	22.78
		1	7	25.70	25.70	25.70	23.40	23.40	23.40	25.50	25.50	25.50	22.90	22.90	22.90
		1	14	25.58	25.58	25.64	23.30	23.29	23.26	25.36	25.40	25.41	22.79	22.75	22.79
		8	0	24.98	24.90	24.98	22.36	22.35	22.37	24.55	24.47	24.51	21.86	21.77	21.78
		8	4	25.01	25.03	25.02	22.41	22.39	22.38	24.58	24.52	24.55	21.89	21.87	21.82
		8	7	25.00	25.00	25.00	22.39	22.39	22.38	24.57	24.59	24.62	21.89	21.91	21.82
	16QAM	15	0	24.96	24.90	24.98	22.36	22.35	22.37	24.53	24.47	24.50	21.86	21.76	21.78
		1	0	25.07	25.04	25.10	22.35	22.45	22.43	24.75	24.62	24.63	22.11	22.19	22.13
		1	7	25.19	25.22	25.23	22.57	22.55	22.52	24.76	24.70	24.79	22.26	22.28	22.25
		1	14	25.15	25.05	25.00	22.46	22.36	22.43	24.73	24.67	24.71	22.13	22.21	22.10
		8	0	23.97	23.89	24.03	21.40	21.44	21.40	23.58	23.53	23.56	20.89	20.85	20.86
		8	4	24.02	24.01	24.07	21.46	21.48	21.44	23.64	23.57	23.59	20.92	20.98	20.88
	64QAM	8	7	23.98	24.00	24.06	21.45	21.47	21.42	23.61	23.65	23.66	20.91	20.96	20.87
		15	0	23.97	23.89	23.97	21.43	21.39	21.39	23.58	23.52	23.51	20.90	20.82	20.83
		1	0	24.06	24.10	24.18	21.55	21.59	21.47	23.70	23.68	23.80	22.02	21.35	21.62
		1	7	24.18	24.24	24.27	21.59	21.68	21.54	23.86	23.73	23.87	21.99	21.49	21.75
		1	14	24.06	24.14	24.15	21.51	21.63	21.47	23.64	23.66	23.73	21.96	21.37	21.65
		8	0	23.05	22.95	23.00	20.42	20.47	20.39	22.58	22.52	22.52	20.77	20.32	20.41
	256QAM	8	4	23.07	23.07	23.03	20.50	20.46	20.41	22.61	22.56	22.56	20.79	20.39	20.55
		8	7	23.07	23.06	23.04	20.47	20.47	20.40	22.60	22.65	22.64	20.79	20.35	20.51
		15	0	23.02	22.89	22.99	20.43	20.41	20.35	22.56	22.51	22.49	20.74	20.31	20.48
		1	0	20.99	20.92	21.04	18.37	18.47	18.39	20.62	20.53	20.54	18.78	18.35	18.52
		1	7	21.14	21.10	21.13	18.57	18.51	18.53	20.75	20.80	20.65	18.88	18.51	18.64
		1	14	21.05	21.02	20.99	18.51	18.50	18.41	20.56	20.72	20.55	18.79	18.48	18.57

OUTPUT POWER FOR LTE BAND 25 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				26115	26365	26615	26115	26365	26615	26115	26365	26615	26115	26365	26615
15.0	QPSK	1	0	25.66	25.63	25.62	23.34	23.38	23.40	25.44	25.46	25.42	22.90	22.86	22.89
		1	37	25.68	25.70	25.70	23.36	23.40	23.39	25.50	25.50	25.50	22.88	22.90	22.90
		1	74	25.70	25.67	25.64	23.40	23.33	23.27	25.42	25.48	25.29	22.86	22.80	22.79
		36	0	24.98	24.99	24.97	22.34	22.47	22.37	24.65	24.63	24.57	21.88	21.91	21.85
		36	16	25.06	24.99	25.06	22.40	22.45	22.42	24.62	24.62	24.65	21.94	21.87	21.87
		36	35	25.05	25.07	25.05	22.40	22.43	22.42	24.60	24.68	24.62	21.92	21.95	21.90
		75	0	25.03	24.97	25.06	22.38	22.45	22.42	24.60	24.66	24.64	21.93	21.86	21.84
		1	0	25.05	25.15	25.18	22.54	22.42	22.48	24.69	24.70	24.66	22.25	22.19	22.18
		1	37	25.11	25.21	25.24	22.58	22.49	22.46	24.75	24.74	24.73	22.11	22.23	22.15
	1	74	25.19	25.22	25.17	22.54	22.45	22.39	24.66	24.63	24.59	22.10	22.11	22.11	
	36	0	24.00	24.00	23.98	21.36	21.48	21.39	23.67	23.62	23.56	20.89	20.93	20.90	
	36	16	24.07	23.99	24.05	21.42	21.49	21.44	23.65	23.61	23.65	20.97	20.90	20.87	
	36	35	24.06	24.06	24.07	21.41	21.46	21.41	23.63	23.68	23.63	20.94	20.97	20.93	
	75	0	24.06	23.99	24.05	21.41	21.47	21.44	23.61	23.70	23.65	20.96	20.89	20.86	
	1	0	24.19	24.22	24.22	21.69	21.68	21.55	23.76	23.76	23.78	21.78	21.29	21.47	
	1	37	24.19	24.24	24.28	21.66	21.78	21.64	23.74	23.79	23.81	21.62	21.35	21.49	
	1	74	24.27	24.22	24.22	21.63	21.66	21.49	23.75	23.72	23.84	21.48	21.42	21.43	
	36	0	22.95	22.96	22.97	20.35	20.53	20.35	22.65	22.63	22.54	20.54	20.14	20.34	
	36	16	23.03	22.98	23.03	20.40	20.53	20.41	22.63	22.61	22.62	20.50	20.18	20.33	
	36	35	23.05	23.05	23.04	20.39	20.51	20.38	22.61	22.69	22.62	20.42	20.30	20.37	
	75	0	23.05	22.97	23.06	20.44	20.49	20.42	22.65	22.69	22.64	20.46	20.27	20.42	
	1	0	21.03	21.07	20.99	18.46	18.58	18.45	20.70	20.70	20.66	18.68	18.19	18.42	
	1	37	21.09	21.15	21.04	18.55	18.65	18.51	20.65	20.75	20.77	18.58	18.34	18.38	
	1	74	21.10	21.19	21.19	18.57	18.59	18.48	20.69	20.74	20.77	18.48	18.47	18.46	
	36	0	20.96	20.95	20.93	18.34	18.50	18.34	20.65	20.62	20.54	18.55	18.14	18.33	
	36	16	21.02	20.94	21.01	18.41	18.50	18.40	20.64	20.61	20.60	18.47	18.17	18.31	
	36	35	20.99	21.01	21.01	18.40	18.49	18.37	20.59	20.68	20.58	18.40	18.30	18.36	
	75	0	21.03	20.95	21.01	18.40	18.49	18.40	20.60	20.68	20.61	18.46	18.25	18.41	

OUTPUT POWER FOR LTE BAND 25 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			ANT 2			ANT 3			ANT 4		
				26140	26365	26590	26140	26365	26590	26140	26365	26590	26140	26365	26590
20.0	QPSK	1	0	25.70	25.61	25.67	23.40	23.40	23.40	25.50	25.49	25.47	22.90	22.90	22.85
		1	49	25.70	25.68	25.68	23.33	23.40	23.35	25.46	25.48	25.50	22.84	22.88	22.90
		1	99	25.65	25.70	25.70	23.31	23.34	23.30	25.42	25.50	25.49	22.76	22.83	22.76
		50	0	24.99	24.99	24.99	22.36	22.40	22.38	24.59	24.57	24.60	21.88	21.89	21.86
		50	24	25.07	25.00	25.10	22.43	22.49	22.39	24.66	24.63	24.69	21.94	21.89	21.93
		50	49	25.04	25.04	25.06	22.40	22.46	22.40	24.58	24.61	24.67	21.87	21.92	21.89
		100	0	25.05	24.98	25.10	22.42	22.47	22.37	24.63	24.62	24.70	21.92	21.86	21.95
		1	0	25.12	25.12	25.21	22.50	22.53	22.50	24.78	24.68	24.67	22.13	22.26	22.18
		1	49	25.26	25.42	25.45	22.74	22.95	22.95	25.06	24.90	24.86	22.17	22.52	22.49
	1	99	25.18	25.12	25.20	22.46	22.49	22.40	24.73	24.70	24.72	22.01	22.20	22.10	
	50	0	23.98	23.98	24.01	21.35	21.41	21.40	23.59	23.57	23.60	20.89	20.93	20.88	
	50	24	24.06	23.99	24.09	21.42	21.49	21.38	23.66	23.65	23.69	20.95	20.91	20.94	
	50	49	24.03	24.04	24.04	21.39	21.47	21.40	23.60	23.62	23.66	20.90	20.93	20.89	
	100	0	24.06	23.97	24.09	21.41	21.50	21.37	23.64	23.62	23.69	20.92	20.90	20.94	
	1	0	24.10	24.11	24.15	21.52	21.57	21.53	23.70	23.73	23.79	21.73	21.21	21.55	
	1	49	24.27	24.18	24.31	21.51	21.75	21.66	23.78	23.82	23.88	21.71	21.39	21.60	
	1	99	24.07	24.11	24.18	21.37	21.58	21.48	23.66	23.71	23.75	21.29	21.42	21.45	
	50	0	22.94	22.94	22.96	20.29	20.43	20.38	22.56	22.59	22.61	20.50	20.12	20.35	
	50	24	23.02	22.95	23.07	20.39	20.51	20.40	22.63	22.65	22.70	20.42	20.21	20.43	
	50	49	23.00	23.00	23.04	20.37	20.48	20.43	22.55	22.62	22.66	20.21	20.33	20.38	
	100	0	23.02	22.94	23.05	20.39	20.50	20.41	22.60	22.65	22.70	20.42	20.28	20.43	
	1	0	21.09	20.97	21.11	18.48	18.62	18.55	20.79	20.72	20.73	18.71	18.20	18.43	
	1	49	21.12	21.09	21.16	18.54	18.61	18.56	20.66	20.77	20.81	18.49	18.30	18.46	
	1	99	21.15	21.12	21.20	18.58	18.69	18.54	20.70	20.71	20.79	18.34	18.45	18.45	
	50	0	20.93	20.92	20.96	18.33	18.42	18.39	20.55	20.56	20.59	18.51	18.15	18.35	
	50	24	21.02	20.91	21.03	18.43	18.53	18.40	20.62	20.63	20.68	18.44	18.20	18.42	
	50	49	20.99	20.99	21.03	18.40	18.48	18.43	20.56	20.62	20.69	18.25	18.33	18.40	
	100	0	21.00	20.91	21.04	18.39	18.50	18.38	20.60	20.62	20.69	18.44	18.25	18.44	

5G NR n25

Test Engineer ID:	28568	Test Date:	1/31/2023
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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 1852.5	376500 1882.5	382500 1912.5	370500 1852.5	376500 1882.5	382500 1912.5	370500 1852.5	376500 1882.5	382500 1912.5	370500 1852.5	376500 1882.5	382500 1912.5
5.0	BPSK	1	0	25.52	25.50	25.43	23.04	23.09	23.03	25.23	25.19	25.25	22.65	22.55	22.54
				25.70	25.70	25.59	23.35	23.29	23.31	25.50	25.50	25.41	22.90	22.78	22.85
				25.68	25.61	25.57	23.29	23.28	23.30	25.47	25.48	25.46	22.87	22.79	22.90
				25.51	25.46	25.37	23.10	23.01	23.09	25.21	25.28	25.24	22.57	22.56	22.57
				25.68	25.54	25.64	23.28	23.22	23.30	25.32	25.16	25.50	22.80	22.71	22.73
	QPSK	1	0	25.46	25.31	25.40	23.01	22.98	23.06	24.55	24.46	25.23	22.36	22.53	22.56
				24.52	25.01	24.60	22.64	22.64	22.64	23.39	23.21	24.22	22.03	22.16	22.11
				25.50	25.68	25.63	23.39	23.40	23.36	24.36	24.13	25.29	22.75	22.86	22.80
				25.40	25.53	25.59	23.40	23.31	23.40	24.45	24.05	24.79	22.70	22.90	22.80
				24.38	24.46	24.56	22.63	22.60	22.66	23.47	23.01	23.91	21.98	22.13	22.07
	16QAM	1	6	25.58	25.53	25.70	23.29	23.27	23.35	24.31	24.28	25.44	22.66	22.72	22.87
				24.34	24.73	24.83	22.61	22.56	22.59	23.31	23.11	24.76	21.94	22.04	22.12
				23.79	23.97	23.89	21.44	21.88	21.54	22.46	22.13	23.81	20.93	21.42	20.99
				24.77	24.93	24.89	22.49	22.89	22.55	23.42	23.09	24.84	21.93	22.45	21.91
				24.65	24.78	24.85	22.38	22.94	22.58	23.47	22.99	24.71	21.93	22.48	21.95
	64QAM	1	24	23.57	23.61	23.80	21.40	21.88	21.48	22.49	21.93	23.76	20.87	21.43	20.87
				24.71	24.83	24.78	22.64	22.55	22.54	23.52	23.35	24.75	21.91	21.94	22.07
				23.69	23.89	23.88	21.57	21.51	21.57	22.44	22.34	23.69	20.97	21.04	21.10
				23.46	23.55	23.49	21.42	21.38	20.95	22.44	22.27	23.40	20.80	20.79	20.88
				23.49	23.62	23.58	21.38	21.35	20.98	22.38	22.23	23.37	20.76	20.79	20.94
	256QAM	1	23	23.29	23.60	23.56	21.37	21.36	20.89	22.44	22.08	23.29	20.76	20.68	20.90
				23.33	23.54	23.53	21.33	21.34	20.96	22.41	22.03	23.32	20.82	20.75	20.89
				23.28	23.30	23.19	21.08	20.99	21.06	22.10	22.06	23.20	20.41	20.55	20.63
				23.17	23.34	23.34	21.11	21.07	21.14	22.10	21.95	23.21	20.42	20.55	20.63
				21.64	21.45	21.41	18.91	19.01	19.21	20.66	20.58	21.12	18.34	18.32	18.45

OUTPUT POWER FOR 5G NR n25 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			Ant 2			Ant 3			Ant 4		
				371000 1855.0	376500 1882.5	382000 1910.0	371000 1855.0	376500 1882.5	382000 1910.0	371000 1855.0	376500 1882.5	382000 1910.0	371000 1855.0	376500 1882.5	382000 1910.0
10.0	BPSK	1	0	25.48	25.44	25.49	23.04	23.12	23.09	25.27	25.23	25.27	22.70	22.69	22.63
				25.70	25.56	25.58	23.26	23.22	23.32	25.50	25.50	25.41	22.90	22.75	22.84
				25.68	25.63	25.61	23.24	23.29	23.31	25.45	25.42	25.39	22.79	22.85	22.83
				25.48	25.41	25.45	22.99	23.10	23.10	25.27	25.20	25.22	22.59	22.64	22.63
				25.70	25.62	25.55	23.27	23.34	23.27	25.47	25.19	25.47	22.83	22.79	22.77
	QPSK	1	0	25.52	25.45	25.44	23.15	23.23	23.22	25.12	24.56	25.29	22.65	22.66	22.68
				24.55	24.96	24.96	22.64	22.69	22.70	23.52	23.65	24.16	22.17	22.09	22.07
				25.55	25.70	25.70	23.40	23.29	23.40	24.46	24.57	25.06	22.85	22.90	22.90
				25.65	25.33	25.69	23.35	23.40	23.32	25.31	24.28	25.32	22.80	22.82	22.45
				24.68	24.28	24.77	22.62	22.68	22.26	24.30	23.26	24.45	22.12	22.07	21.45
	16QAM	1	12	25.42	25.64	25.60	23.36	23.40	23.36	24.70	24.33	25.50	22.90	22.89	22.83
				24.36	24.73	24.88	22.66	22.61	22.70	23.63	23.26	24.78	22.15	22.16	22.13
				23.89	23.64	24.14	21.55	21.65	21.78	22.88	22.99	23.60	21.07	21.48	20.96
				24.98	24.71	25.18	22.64	22.53	22.83	23.86	23.96	24.51	22.13	22.42	22.00
				25.05	24.37	25.15	22.61	22.53	22.77	24.75	23.52	24.86	22.04	22.42	22.03
	64QAM	1	50	24.06	23.41	23.99	21.51	21.53	21.69	23.71	22.43	23.91	21.01	21.45	20.96
				24.72	25.03	24.87	22.65	22.65	22.66	23.90	23.55	24.65	22.17	22.19	22.11
				23.67	23.94	23.88	21.65	21.74	21.71	22.82	22.53	23.63	21.17	21.16	21.15
				23.48	23.60	23.19	21.23	21.32	20.96	22.32	22.72	23.13	20.94	21.04	20.59
				23.59	23.33	23.25	21.31	21.35	21.01	22.32	22.69	23.07	20.89	21.09	20.59
	256QAM	1	50	23.39	23.37	23.16	21.21	21.37	21.02	23.12	22.36	23.53	20.86	21.00	20.47
				23.38	23.37	23.15	21.20	21.42	20.99	23.12	22.41	23.34	20.89	20.98	20.59
				23.30	23.37	23.32	21.15	21.18	21.13	22.45	22.17	23.23	20.63	20.65	20.64
				23.22	23.38	23.31	21.16	21.24	21.19	22.45	22.10	23.26	20.66	20.64	20.64
				21.49	21.47	21.15	19.05	19.20	19.01	20.93	21.11	21.24	18.72	18.58	18.48

OUTPUT POWER FOR 5G NR n25 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 1			Ant 2			Ant 3			Ant 4		
				371500 1857.5	376500 1882.5	381500 1907.5	371500 1857.5	376500 1882.5	381500 1907.5	371500 1857.5	376500 1882.5	381500 1907.5	371500 1857.5	376500 1882.5	381500 1907.5
15.0	BPSK	1	0	25.51	25.45	25.40	23.14	23.27	23.15	25.13	25.22	25.22	22.75	22.60	22.56
		1	1	25.70	25.65	25.70	23.37	23.37	23.40	25.50	25.50	25.31	22.90	22.79	22.81
		1	77	25.58	25.60	25.68	23.31	23.26	23.28	25.39	25.40	25.48	22.83	22.87	22.74
		1	78	25.39	25.37	25.59	23.07	23.09	23.09	25.12	25.15	25.30	22.65	22.65	22.57
		36	18	25.56	25.48	25.58	23.20	23.16	23.19	25.32	25.16	25.27	22.74	22.76	22.71
		75	0	25.42	25.36	25.20	23.14	23.04	23.04	25.20	24.58	25.10	22.57	22.62	22.42
	QPSK	1	0	24.11	25.01	24.19	22.71	22.69	22.71	23.42	23.84	24.82	22.21	22.17	22.14
		1	1	25.09	25.70	25.31	23.40	23.40	23.28	24.38	24.80	25.50	22.86	22.90	22.82
		1	77	25.70	25.42	24.14	23.37	23.27	23.36	25.36	24.41	25.10	22.84	22.87	22.90
		1	78	24.58	24.48	23.10	22.70	22.61	22.65	24.70	23.45	24.19	22.15	22.16	22.13
		36	18	25.37	25.54	25.67	23.24	23.22	23.25	25.01	24.30	24.83	22.78	22.83	22.81
		75	0	24.36	24.70	24.54	22.69	22.56	22.60	24.07	23.40	24.42	22.11	22.15	22.15
	16QAM	1	0	23.33	24.13	24.22	21.82	21.27	21.66	22.53	23.13	23.89	21.15	21.05	21.27
		1	1	24.37	25.23	25.08	22.73	22.43	22.71	23.50	24.08	24.75	22.18	22.04	22.36
		1	77	24.79	24.64	24.28	22.68	22.31	22.75	24.58	23.74	24.53	22.17	22.15	21.94
		1	78	23.72	23.55	23.26	21.67	21.39	21.56	23.61	22.69	23.49	21.05	21.03	20.90
		36	18	24.72	24.91	24.99	22.74	22.62	22.71	24.12	23.38	24.06	22.12	22.10	22.13
		75	0	23.73	23.89	23.97	21.65	21.53	21.52	23.15	22.59	23.49	21.07	21.11	21.09
	64QAM	1	0	23.50	23.38	23.81	21.44	21.42	21.70	22.59	23.25	23.36	20.88	20.87	20.82
		1	1	23.43	23.33	23.59	21.46	21.39	21.69	22.52	23.15	23.37	20.87	20.89	20.89
		1	77	23.65	22.97	23.67	21.34	21.40	21.56	23.49	22.82	23.38	20.79	21.04	20.75
		1	78	23.51	23.06	23.68	21.37	21.43	21.51	23.52	22.81	23.42	20.86	20.81	20.82
		36	18	23.29	23.29	23.42	21.14	21.00	21.13	22.58	21.98	22.55	20.58	20.62	20.57
		75	0	23.34	23.28	23.43	21.17	20.99	21.17	22.73	22.21	23.14	20.60	20.67	20.64
	256QAM	1	0	21.54	21.01	21.51	19.26	19.10	19.44	21.01	21.02	21.13	18.51	18.63	18.67
		1	1	21.53	21.05	21.53	19.24	18.84	19.40	20.98	20.91	21.13	18.55	18.74	18.66
		1	77	21.38	20.91	21.46	19.14	18.94	19.25	21.35	20.72	21.09	18.51	18.74	18.64
		1	78	21.27	21.03	21.58	19.17	18.93	19.25	21.26	20.74	21.17	18.50	18.96	18.59
		36	18	21.38	21.26	21.43	19.03	19.07	19.02	21.12	20.57	21.11	18.52	18.57	18.53
		75	0	21.30	21.25	21.40	19.03	19.06	19.02	21.11	20.76	21.13	18.57	18.58	18.53

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 1860.0	376500 1882.5	381000 1905.0	372000 1860.0	376500 1882.5	381000 1905.0	372000 1860.0	376500 1882.5	381000 1905.0	372000 1860.0	376500 1882.5	381000 1905.0
20.0	BPSK	1	0	25.40	25.45	25.42	23.18	23.16	23.17	24.83	24.95	24.91	22.68	22.69	22.54
		1	1	25.70	25.66	25.62	23.40	23.31	23.40	25.37	25.50	25.32	22.90	22.82	22.86
		1	104	25.49	25.61	25.64	23.29	23.36	23.25	25.31	25.40	25.38	22.82	22.85	22.72
		1	105	25.27	25.38	25.50	23.13	23.10	23.12	24.81	24.90	24.88	22.68	22.77	22.55
		50	25	25.60	25.63	25.65	23.37	23.40	23.24	25.38	25.39	25.32	22.84	22.84	22.80
		100	0	25.38	25.43	25.50	23.15	23.13	23.03	24.89	24.88	24.83	22.63	22.65	22.66
	QPSK	1	0	24.41	25.00	24.93	22.53	22.68	22.70	24.49	24.48	24.51	22.12	22.10	22.21
		1	1	25.44	25.70	25.68	23.28	23.38	23.36	25.50	25.50	25.44	22.88	22.80	22.79
		1	104	25.69	25.61	25.41	23.29	23.27	23.20	25.42	25.39	25.50	22.79	22.90	22.90
		1	105	24.97	24.58	24.38	22.54	22.60	22.55	24.39	24.41	24.49	22.11	22.13	22.19
		50	25	25.56	25.64	25.70	23.27	23.35	23.25	25.40	25.43	25.35	22.90	22.87	22.80
		100	0	24.44	24.67	24.84	22.67	22.68	22.56	24.42	24.41	24.34	22.17	22.15	22.05
	16QAM	1	0	23.51	23.39	24.32	21.69	21.72	21.55	23.64	23.38	23.85	21.33	21.35	21.52
		1	1	24.50	24.42	25.30	22.68	22.62	22.55	24.63	24.42	24.77	22.27	22.35	22.47
		1	104	24.83	23.60	24.85	22.77	22.57	22.48	24.54	24.31	24.82	22.28	22.42	22.34
		1	105	23.84	22.70	23.70	21.66	21.72	21.45	23.50	23.27	23.80	21.34	21.33	21.41
		50	25	24.92	24.90	25.00	22.67	22.70	22.58	24.44	24.40	24.36	22.24	22.25	22.14
		100	0	23.86	23.87	23.97	21.64	21.68	21.56	23.35	23.41	23.34	21.22	21.16	21.12
	64QAM	1	0	23.84	23.52	23.78	21.46	21.39	21.38	22.84	22.66	22.74	21.11	20.91	21.11
		1	1	23.82	23.46	23.57	21.41	21.36	21.44	22.83	22.66	22.66	20.97	20.93	20.96
		1	104	23.80	23.36	23.53	21.33	21.36	21.38	22.75	22.59	22.71	20.94	20.93	21.00
		1	105	23.81	23.37	23.57	21.27	21.40	21.32	22.74	22.56	22.73	21.00	21.01	21.02
		50	25	23.34	23.27	23.35	21.12	21.16	21.14	22.89	22.85	22.86	20.67	20.65	20.61
		100	0	23.36	23.33	23.38	21.11	21.15	21.10	22.84	22.86	22.84	20.69	20.65	20.63
	256QAM	1	0	21.59	21.59	21.32	19.07	19.20	19.00	20.76	20.81	20.77	18.73	18.69	18.38
		1	1	21.56	21.53	21.24	19.16	19.05	18.91	20.75	20.83	20.65	18.71	18.54	18.42
		1	104	21.35	21.38	21.30	19.00	19.01	18.85	20.61	20.67	20.68	18.76	18.52	18.34
		1	105	21.49	21.43	21.24	19.03	19.05	18.83	20.60	20.68	20.67	18.66	18.73	18.30
		50	25	21.35	21.37	21.42	19.05	19.20	19.07	20.85	20.84	20.87	18.62	18.60	18.56
		100	0	21.47	21.40	21.40	19.12	19.24	19.08	20.86	20.93	20.88	18.61	18.62	18.60

OUTPUT POWER FOR 5G NR n25 (25.0 MHz)

Table with columns for Bandwidth (MHz), Modulation, RB Allocation, RB Offset, and Conducted Average (dBm) for Ant 1, Ant 2, Ant 3, and Ant 4. Rows are grouped by Modulation (BPSK, QPSK, 16QAM, 64QAM, 256QAM) and include multiple RB Allocation and RB Offset values.

OUTPUT POWER FOR 5G NR n25 (30.0 MHz)

Table with columns for Bandwidth (MHz), Modulation, RB Allocation, RB Offset, and Conducted Average (dBm) for Ant 1, Ant 2, Ant 3, and Ant 4. Rows are grouped by Modulation (BPSK, QPSK, 16QAM, 64QAM, 256QAM) and include multiple RB Allocation and RB Offset values.

8.7. LTE BAND 26 AND 5G NR n26 (Part 90S)

LTE BAND 26

Test Engineer ID:	28567	Test Date:	2/3/2023
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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			ANT 3		
				26697	26740	26783	26697	26740	26783	26697	26740	26783
1.4	QPSK	1	0	25.59	25.59	25.67	24.61	24.61	24.63	25.27	25.35	25.32
		1	2	25.70	25.70	25.70	24.70	24.63	24.64	25.40	25.40	25.40
		1	5	25.70	25.69	25.65	24.66	24.61	24.64	25.40	25.40	25.40
		3	0	25.69	25.69	25.65	24.66	24.63	24.65	25.39	25.39	25.32
		3	1	25.69	25.69	25.65	24.64	24.64	24.64	25.40	25.40	25.40
		3	2	25.68	25.69	25.67	24.66	24.65	24.64	25.38	25.38	25.38
	16QAM	6	0	24.67	24.70	24.64	23.63	23.62	23.62	24.37	24.37	24.36
		1	0	24.84	24.75	24.81	23.86	23.84	23.97	24.62	24.68	24.66
		1	2	24.80	24.82	24.78	23.95	23.81	24.02	24.70	24.67	24.71
		1	5	24.78	24.80	24.76	23.92	23.86	23.96	24.65	24.70	24.78
		3	0	24.78	24.72	24.75	23.80	23.72	23.78	24.55	24.51	24.48
		3	1	24.82	24.75	24.74	23.79	23.72	23.79	24.56	24.55	24.55
	64QAM	3	2	24.77	24.76	24.77	23.79	23.74	23.77	24.58	24.53	24.54
		6	0	23.72	23.61	23.60	22.71	22.69	22.65	23.49	23.49	23.48
		1	0	23.77	23.78	23.78	22.81	22.83	22.69	23.47	23.59	23.55
		1	2	23.86	23.85	23.83	22.93	22.99	22.83	23.63	23.65	23.62
		1	5	23.87	23.73	23.82	22.89	22.89	22.74	23.54	23.56	23.59
		3	0	23.76	23.76	23.78	22.69	22.75	22.76	23.48	23.45	23.38
	256QAM	3	1	23.79	23.77	23.76	22.71	22.77	22.75	23.49	23.43	23.49
		3	2	23.78	23.76	23.78	22.73	22.76	22.76	23.46	23.45	23.46
		6	0	22.62	22.70	22.61	21.57	21.71	21.61	22.36	22.41	22.36
		1	0	20.74	20.76	20.85	19.61	19.69	19.69	20.49	20.48	20.45
		1	2	20.84	20.83	20.81	19.73	19.80	19.80	20.57	20.56	20.51
		1	5	20.85	20.74	20.79	19.65	19.72	19.76	20.52	20.52	20.44

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				26705	26740	26775	26705	26740	26775	26705	26740	26775
3.0	QPSK	1	0	25.55	25.62	25.58	24.58	24.53	24.59	25.38	25.40	25.38
		1	7	25.70	25.70	25.70	24.69	24.69	24.70	25.40	25.40	25.40
		1	14	25.55	25.60	25.58	24.59	24.55	24.60	25.40	25.39	25.40
		8	0	24.66	24.58	24.67	23.58	23.65	23.64	24.81	24.86	24.82
		8	4	24.65	24.70	24.69	23.67	23.70	23.68	24.90	24.87	24.82
		8	7	24.65	24.70	24.67	23.70	23.69	23.67	24.88	24.89	24.81
	16QAM	15	0	24.61	24.67	24.63	23.66	23.62	23.63	24.86	24.87	24.81
		1	0	24.68	24.76	24.81	23.89	23.95	23.93	24.72	24.72	24.70
		1	7	24.84	24.88	24.88	23.97	24.13	24.00	24.73	24.77	24.71
		1	14	24.74	24.77	24.72	23.87	23.97	23.88	24.69	24.65	24.71
		8	0	23.72	23.63	23.72	22.66	22.73	22.71	23.92	23.91	23.91
		8	4	23.75	23.75	23.76	22.76	22.76	22.74	24.02	23.95	23.94
	64QAM	8	7	23.74	23.73	23.75	22.77	22.75	22.75	24.02	23.93	23.90
		15	0	23.63	23.67	23.66	22.72	22.71	22.64	23.91	23.89	23.88
		1	0	23.77	23.89	23.86	22.85	22.91	22.83	23.68	23.73	23.65
		1	7	23.88	23.96	23.97	22.98	22.99	22.89	23.62	23.75	23.67
		1	14	23.77	23.85	23.84	22.89	22.90	22.82	23.68	23.66	23.68
		8	0	22.71	22.62	22.71	21.73	21.66	21.65	22.82	22.92	22.92
	256QAM	8	4	22.74	22.74	22.74	21.75	21.78	21.79	22.94	22.93	22.94
		8	7	22.72	22.74	22.74	21.72	21.80	21.77	22.91	22.94	22.93
		15	0	22.65	22.66	22.70	21.69	21.72	21.72	22.92	22.88	22.86
		1	0	20.64	20.65	20.67	19.65	19.72	19.65	20.51	20.50	20.52
		1	7	20.81	20.84	20.82	19.83	19.87	19.78	20.51	20.58	20.54
		1	14	20.72	20.69	20.73	19.74	19.79	19.72	20.58	20.51	20.54

OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				26715	26740	26765	26715	26740	26765	26715	26740	26765
5.0	QPSK	1	0	25.55	25.56	25.61	24.54	24.61	24.60	25.40	25.39	25.38
		1	12	25.70	25.70	25.70	24.70	24.70	24.70	25.40	25.40	25.40
		1	24	25.57	25.57	25.57	24.57	24.58	24.60	25.36	25.40	25.40
		12	0	24.55	24.52	24.56	23.55	23.60	23.54	24.84	24.79	24.80
		12	6	24.66	24.64	24.64	23.64	23.64	23.65	24.90	24.93	24.89
		12	11	24.61	24.60	24.65	23.63	23.61	23.63	24.90	24.88	24.87
		25	0	24.63	24.60	24.65	23.61	23.61	23.61	24.88	24.84	24.83
	16QAM	1	0	24.75	24.76	24.81	23.93	23.93	24.03	24.76	24.83	24.79
		1	12	24.92	24.87	24.95	24.04	24.05	24.11	24.75	24.70	24.75
		1	24	24.75	24.80	24.84	23.91	23.91	23.99	24.73	24.75	24.78
		12	0	23.60	23.49	23.51	22.60	22.71	22.63	23.86	23.79	23.75
		12	6	23.67	23.58	23.63	22.72	22.74	22.74	23.97	23.91	23.87
		12	11	23.65	23.55	23.57	22.68	22.72	22.72	23.94	23.86	23.82
		25	0	23.60	23.62	23.65	22.65	22.64	22.60	23.92	23.92	23.90
	64QAM	1	0	23.68	23.67	23.65	22.86	22.88	23.01	23.56	23.62	23.59
		1	12	23.82	23.75	23.72	22.99	22.94	23.10	23.53	23.54	23.48
		1	24	23.69	23.71	23.75	22.91	22.91	22.96	23.53	23.56	23.52
		12	0	22.59	22.53	22.59	21.56	21.72	21.62	22.86	22.84	22.82
		12	6	22.70	22.67	22.70	21.65	21.81	21.76	23.00	22.95	22.95
		12	11	22.65	22.64	22.65	21.62	21.80	21.72	22.91	22.88	22.90
		25	0	22.63	22.61	22.64	21.67	21.70	21.70	22.91	22.91	22.88
	256QAM	1	0	20.59	20.68	20.68	19.64	19.68	19.69	20.53	20.54	20.48
		1	12	20.72	20.84	20.79	19.77	19.83	19.90	20.58	20.58	20.50
		1	24	20.67	20.73	20.71	19.71	19.74	19.81	20.57	20.61	20.52
		12	0	20.59	20.55	20.60	19.58	19.61	19.63	20.86	20.81	20.80
12		6	20.68	20.66	20.69	19.71	19.70	19.72	20.94	20.92	20.90	
12		11	20.65	20.63	20.64	19.68	19.70	19.70	20.90	20.87	20.88	
25		0	20.62	20.63	20.67	19.66	19.70	19.68	20.86	20.90	20.88	

OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				N/A	26740	N/A	N/A	26740	N/A	N/A	26740	N/A
10.0	QPSK	1	0	N/A	819.0	N/A	N/A	819.0	N/A	N/A	819.0	N/A
		1	24		25.69			24.67			25.40	
		1	49		25.59			24.63			25.27	
		25	0		24.60			23.60			24.84	
		25	12		24.69			23.70			24.93	
		25	24		24.67			23.67			24.89	
		50	0		24.69			23.69			24.88	
	16QAM	1	0		24.83			24.06			24.62	
		1	24		24.79			23.97			24.60	
		1	49		24.77			24.03			24.55	
		25	0		23.64			22.66			23.85	
		25	12		23.71			22.74			23.94	
		25	24		23.69			22.72			23.91	
		50	0		23.67			22.70			23.91	
	64QAM	1	0		23.92			22.92			23.65	
		1	24		23.98			22.88			23.60	
		1	49		23.84			22.87			23.45	
		25	0		22.60			21.68			22.86	
		25	12		22.72			21.77			22.94	
		25	24		22.68			21.74			22.89	
		50	0		22.70			21.73			22.91	
	256QAM	1	0		20.76			19.75			20.44	
		1	24		20.86			19.87			20.58	
		1	49		20.76			19.82			20.43	
		25	0		20.66			19.66			20.85	
25		12		20.73			19.75			20.92		
25		24		20.71			19.73			20.88		
50		0		20.71			19.76			20.90		

5G NR n26

Test Engineer ID:	28568	Test Date:	2/2/2023
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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			ANT 3		
				163300	163800	164300	163300	163800	164300	163300	163800	164300
5.0	BPSK	1	0	816.5	819.0	821.5	816.5	819.0	821.5	816.5	819.0	821.5
		1	1	24.10	24.47	25.34	23.13	24.42	24.43	23.80	24.86	24.81
		1	23	24.20	25.70	25.57	23.20	24.68	24.54	23.90	25.40	25.40
		1	24	24.11	25.62	25.64	23.15	24.68	24.58	23.79	25.28	25.29
		1	24	24.00	24.41	25.39	23.15	24.50	24.36	23.70	24.70	24.77
		12	6	24.07	25.63	25.50	22.12	24.70	24.58	23.02	25.27	25.28
	QPSK	25	0	25.30	25.38	25.34	23.20	24.48	24.34	23.90	24.70	24.72
		1	0	24.03	24.54	24.93	22.77	23.95	24.05	23.46	24.29	24.30
		1	1	24.20	25.69	25.69	22.77	24.68	24.64	23.47	25.31	25.33
		1	23	24.17	25.67	25.70	22.67	24.67	24.70	23.37	25.27	25.37
		1	24	24.10	24.39	24.99	22.58	23.93	23.92	23.42	24.18	24.26
		12	6	24.01	25.62	25.58	21.51	24.68	24.63	22.65	25.26	25.30
	16QAM	25	0	24.92	24.90	24.86	22.28	23.95	23.88	23.12	24.19	24.29
		1	0	24.20	24.09	23.91	22.69	23.11	22.49	23.26	23.22	23.49
		1	1	24.10	25.04	24.92	22.65	23.96	23.56	23.47	24.28	24.43
		1	23	24.10	25.01	24.99	22.67	24.09	23.58	23.34	24.23	24.35
		1	24	24.20	24.00	23.98	22.57	23.06	22.58	23.47	23.18	23.34
		12	6	23.92	24.79	24.84	21.69	23.90	23.81	22.63	24.26	24.23
	64QAM	25	0	23.88	23.90	23.85	21.26	22.97	22.87	22.07	23.16	23.18
		1	0	24.05	23.67	23.62	22.69	22.87	22.75	23.07	22.78	22.83
		1	1	24.00	23.74	23.68	22.59	22.88	22.64	23.02	22.81	22.83
		1	23	24.00	23.74	23.70	22.57	22.86	22.68	22.67	22.77	22.79
		1	24	23.51	23.63	23.68	22.67	22.83	22.70	22.71	22.72	22.74
		12	6	23.29	23.35	23.26	20.73	22.36	22.26	21.58	22.69	22.75
	256QAM	25	0	23.36	23.37	23.33	20.71	22.45	22.25	21.63	22.70	22.73
		1	0	21.30	21.28	21.27	20.01	20.73	20.48	20.57	20.67	20.80
		1	1	21.45	21.43	21.24	20.01	20.72	20.39	20.56	20.74	20.83
		1	23	21.26	21.08	21.31	19.98	20.72	20.41	20.31	20.65	20.83
		1	24	21.28	21.06	21.34	19.92	20.74	20.44	20.38	20.62	20.79
		12	6	21.28	21.29	21.28	18.82	20.47	20.39	19.39	20.74	20.63
	25	0	21.29	21.34	21.24	18.80	20.46	20.30	19.49	20.72	20.63	

OUTPUT POWER FOR 5G NR n26 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				N/A	163800	N/A	N/A	163800	N/A	N/A	163800	N/A
10.0	BPSK	1	0	N/A	819.0	N/A	N/A	819.0	N/A	N/A	819.0	N/A
		1	1		25.36			24.44			24.70	
		1	50		25.56			24.61			25.26	
		1	51		25.57			24.67			25.07	
		1	51		25.34			24.41			24.62	
		25	12		25.45			24.63			25.12	
	QPSK	50	0	25.33			24.50			24.68		
		1	0	24.91			23.89			24.16		
		1	1	25.70			24.63			25.40		
		1	50	25.67			24.59			25.17		
		1	51	24.86			23.90			24.11		
		25	12	25.53			24.70			25.25		
	16QAM	50	0	24.85			24.06			24.21		
		1	0	23.83			23.17			23.15		
		1	1	24.76			24.09			24.04		
		1	50	24.84			24.11			24.07		
		1	51	23.71			23.14			23.04		
		25	12	24.77			23.96			24.14		
	64QAM	50	0	23.84			23.00			23.21		
		1	0	23.50			22.43			22.66		
		1	1	23.49			22.47			22.57		
		1	50	23.58			22.51			22.48		
		1	51	23.47			22.46			22.67		
		25	12	23.24			22.45			22.64		
	256QAM	50	0	23.29			22.48			22.70		
		1	0	21.30			20.62			20.66		
		1	1	21.22			20.77			20.62		
		1	50	21.23			20.73			20.59		
		1	51	21.20			20.57			20.41		
		25	12	21.14			20.50			20.58		
	50	0	21.24			20.46			20.62			

8.8. LTE BAND 26 AND 5G NR n26 (Part 22)

LTE Band 26

Test Engineer ID:	28567	Test Date:	2/3/2023
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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			ANT 3		
				26797	26915	27033	26797	26915	27033	26797	26915	27033
1.4	QPSK	1	0	824.7	836.5	848.3	824.7	836.5	848.3	824.7	836.5	848.3
		1	2	25.57	25.64	25.67	24.66	24.62	24.65	25.38	25.37	25.40
		1	5	25.70	25.7	25.70	24.69	24.70	24.70	25.40	25.40	25.40
		3	0	25.65	25.66	25.69	24.65	24.68	24.61	25.40	25.40	24.78
		3	1	25.66	25.65	25.70	24.70	24.58	24.63	25.29	25.40	25.40
		3	2	25.65	25.65	25.70	24.69	24.60	24.64	25.40	25.39	25.28
	16QAM	3	2	25.68	25.67	25.68	24.69	24.67	24.62	25.36	25.38	25.12
		6	0	24.94	24.94	24.96	23.68	23.57	23.63	24.35	24.35	24.29
		1	0	25.19	25.28	25.31	23.96	23.95	23.94	24.53	24.43	24.47
		1	2	25.29	25.3	25.36	23.97	23.93	23.93	24.52	24.52	24.51
		1	5	25.27	25.22	25.19	23.97	23.97	23.91	24.57	24.48	24.01
		3	0	25.15	25.14	25.17	23.82	23.77	23.85	24.37	24.49	24.53
	64QAM	3	1	25.16	25.14	25.15	23.83	23.72	23.85	24.45	24.51	24.50
		3	2	25.14	25.13	25.19	23.84	23.85	23.87	24.45	24.48	24.36
		6	0	24.01	24.03	24.00	22.69	22.65	22.75	23.43	23.38	23.47
		1	0	24.01	24.22	24.18	22.92	22.86	22.84	23.60	23.53	23.72
		1	2	24.11	24.21	24.25	22.94	22.98	22.86	23.57	23.63	23.77
		1	5	24.09	24.22	24.22	22.90	22.92	22.80	23.57	23.59	23.23
	256QAM	3	0	24.08	24.05	24.10	22.77	22.72	22.80	23.34	23.48	23.75
		3	1	24.08	24.07	24.09	22.78	22.73	22.80	23.42	23.51	23.65
		3	2	24.11	24.05	24.09	22.80	22.80	22.83	23.42	23.51	23.49
		6	0	23.11	22.98	22.95	21.74	21.58	21.76	22.34	22.41	22.59
		1	0	20.97	21.1	21.01	19.79	19.64	19.69	20.55	20.49	20.57
		1	2	21.14	21.05	21.05	19.83	19.78	19.79	20.52	20.48	20.90
	256QAM	1	5	21.10	21.04	20.98	19.78	19.72	19.69	20.56	20.43	20.38
		3	0	21.02	20.98	21.00	19.75	19.64	19.72	20.29	20.43	20.73
		3	1	21.02	20.99	20.96	19.77	19.65	19.72	20.38	20.41	20.75
		3	2	21.00	21	20.98	19.76	19.70	19.74	20.37	20.41	20.66
		6	0	21.01	21.07	20.94	19.59	19.57	19.76	20.27	20.31	20.66

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				26805	26915	27025	26805	26915	27025	26805	26915	27025
3.0	QPSK	1	0	825.5	836.5	847.5	825.5	836.5	847.5	825.5	836.5	847.5
		1	7	25.59	25.6	25.61	24.55	24.62	24.67	25.40	25.40	25.40
		1	14	25.70	25.7	25.70	24.70	24.70	24.70	25.40	25.40	25.40
		8	0	25.63	25.58	25.59	24.56	24.61	24.60	25.33	25.38	25.27
		8	4	24.97	24.89	24.93	23.65	23.60	23.68	24.93	24.75	24.77
		8	7	25.01	25.01	24.99	23.70	23.64	23.74	24.92	24.85	24.83
	16QAM	8	7	24.99	24.97	24.97	23.67	23.74	23.71	24.92	24.84	24.82
		15	0	24.95	24.94	24.94	23.63	23.58	23.69	24.87	24.83	24.80
		1	0	25.24	25.26	25.26	23.90	23.95	23.96	24.58	24.57	24.48
		1	7	25.38	25.33	25.32	24.04	24.04	24.00	24.56	24.52	24.48
		1	14	25.19	25.22	25.18	23.87	23.90	23.91	24.51	24.54	24.54
		8	0	24.07	23.9	23.98	22.70	22.61	22.71	23.91	23.76	23.84
	64QAM	8	4	24.12	24.02	24.04	22.73	22.69	22.73	23.90	23.88	23.87
		8	7	24.11	23.99	24.03	22.74	22.73	22.72	23.92	23.85	23.87
		15	0	24.00	23.98	23.94	22.69	22.59	22.72	23.92	23.85	23.80
		1	0	24.18	24.21	24.16	22.88	22.92	22.95	23.62	23.64	23.65
		1	7	24.35	24.26	24.29	23.00	23.00	23.03	23.59	23.68	23.70
		1	14	24.29	24.21	24.24	22.90	22.93	22.92	23.58	23.68	23.71
	256QAM	8	0	23.01	22.95	22.99	21.70	21.64	21.82	22.95	22.85	22.86
		8	4	23.06	23.04	23.01	21.77	21.67	21.85	22.96	22.97	22.89
		8	7	23.05	23.06	22.98	21.73	21.76	21.85	22.95	22.94	22.90
		15	0	23.01	22.99	22.93	21.68	21.64	21.71	22.93	22.86	22.84
		1	0	21.03	20.98	20.97	19.64	19.70	19.85	20.49	20.41	20.45
		1	7	21.15	21.12	21.05	19.78	19.88	19.90	20.62	20.48	20.49
	256QAM	1	14	21.04	21.04	20.96	19.70	19.75	19.75	20.56	20.56	20.44
		8	0	21.00	20.9	20.94	19.70	19.64	19.72	20.94	20.79	20.84
		8	4	20.98	21.01	20.99	19.73	19.67	19.77	20.94	20.90	20.87
		8	7	20.96	20.97	20.96	19.74	19.73	19.74	20.98	20.88	20.85
		15	0	20.96	20.95	20.92	19.69	19.62	19.73	20.96	20.86	20.84

OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				26815	26915	27015	26815	26915	27015	26815	26915	27015
5.0	QPSK	1	0	25.56	25.56	25.61	24.62	24.58	24.58	25.50	25.49	25.50
		1	12	25.70	25.7	25.70	24.70	24.70	24.70	25.50	25.50	25.50
		1	24	25.56	25.54	25.56	24.57	24.59	24.57	25.47	25.50	25.48
		12	0	24.84	24.81	24.82	23.58	23.51	23.57	25.03	24.84	24.85
		12	6	24.89	24.91	24.92	23.68	23.56	23.70	25.03	24.95	24.94
		12	11	24.90	24.82	24.88	23.62	23.61	23.64	24.98	24.93	24.92
		25	0	24.90	24.85	24.79	23.62	23.55	23.55	25.00	24.93	24.84
	16QAM	1	0	25.27	25.21	25.23	23.95	23.98	24.04	24.65	24.71	24.69
		1	12	25.29	25.26	25.30	24.06	24.04	24.04	24.61	24.75	24.71
		1	24	25.23	25.23	25.23	24.02	23.92	23.97	24.66	24.72	24.70
		12	0	23.87	23.81	23.85	22.66	22.66	22.65	24.07	23.95	23.86
		12	6	23.97	23.9	23.97	22.75	22.70	22.77	24.05	24.05	24.00
		12	11	23.95	23.85	23.93	22.74	22.71	22.73	24.04	24.02	23.94
		25	0	23.91	23.85	23.81	22.68	22.55	22.53	24.01	23.96	23.89
	64QAM	1	0	24.20	24.09	24.12	22.72	22.86	22.93	23.67	23.68	23.70
		1	12	24.24	24.21	24.20	22.84	22.93	22.89	23.64	23.69	23.66
		1	24	24.16	24.14	24.14	22.71	22.83	22.84	23.64	23.70	23.67
		12	0	22.87	22.93	22.82	21.43	21.56	21.48	23.04	22.91	22.88
		12	6	22.98	23.06	22.90	21.54	21.60	21.62	23.06	23.03	23.00
		12	11	22.95	23.01	22.86	21.51	21.64	21.56	23.01	23.00	22.98
		25	0	22.88	22.88	22.76	21.50	21.53	21.53	23.00	22.97	22.87
	256QAM	1	0	20.98	20.83	20.87	19.53	19.54	19.60	20.56	20.64	20.63
		1	12	21.07	20.96	21.02	19.74	19.72	19.71	20.61	20.77	20.76
		1	24	21.00	20.87	20.96	19.61	19.64	19.61	20.62	20.72	20.67
		12	0	20.80	20.77	20.76	19.48	19.57	19.57	21.03	20.90	20.88
12		6	20.92	20.89	20.85	19.54	19.58	19.68	21.03	21.02	20.98	
12		11	20.89	20.85	20.80	19.50	19.62	19.65	21.01	20.98	20.95	
25		0	20.87	20.85	20.75	19.52	19.55	19.54	21.00	20.97	20.87	

OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				26840	26915	26990	26840	26915	26990	26840	26915	26990
10.0	QPSK	1	0	25.70	25.68	25.64	24.69	24.70	24.70	25.40	25.40	25.40
		1	24	25.68	25.7	25.70	24.70	24.68	24.68	25.40	25.40	25.40
		1	49	25.62	25.6	25.64	24.63	24.60	24.62	25.30	25.36	25.38
		25	0	24.95	24.9	24.93	23.61	23.61	23.63	24.85	24.84	24.78
		25	12	25.03	24.92	25.02	23.75	23.61	23.66	24.92	24.92	24.90
		25	24	25.00	24.97	25.00	23.69	23.67	23.69	24.90	24.87	24.87
		50	0	25.04	24.98	24.91	23.72	23.60	23.63	24.90	24.89	24.79
	16QAM	1	0	25.47	25.29	25.42	24.02	24.05	24.05	24.61	24.59	24.59
		1	24	25.36	25.27	25.27	23.96	23.94	23.97	24.55	24.52	24.56
		1	49	25.35	25.24	25.32	23.97	23.94	23.98	24.49	24.50	24.51
		25	0	24.03	23.91	23.99	22.65	22.66	22.66	23.87	23.82	23.80
		25	12	24.08	23.89	24.02	22.74	22.63	22.66	23.97	23.93	23.88
		25	24	24.07	23.94	24.00	22.72	22.72	22.70	23.93	23.87	23.87
		50	0	24.04	23.97	23.91	22.71	22.62	22.66	23.93	23.90	23.79
	64QAM	1	0	24.32	24.24	24.25	23.03	22.92	23.04	23.61	23.61	23.63
		1	24	24.25	24.23	24.30	23.03	22.97	22.95	23.65	23.61	23.62
		1	49	24.22	24.19	24.18	22.92	22.90	22.97	23.55	23.54	23.56
		25	0	22.95	22.94	22.93	21.65	21.61	21.65	22.86	22.84	22.84
		25	12	23.04	22.94	23.03	21.75	21.61	21.67	22.97	22.93	22.93
		25	24	22.99	22.97	22.98	21.74	21.66	21.70	22.92	22.91	22.91
		50	0	23.01	22.99	22.90	21.76	21.60	21.60	22.92	22.93	22.85
	256QAM	1	0	21.06	21.05	21.07	19.81	19.76	19.83	20.47	20.57	20.47
		1	24	21.11	21.18	21.12	19.96	19.90	19.93	20.55	20.65	20.55
		1	49	21.01	21.06	21.04	19.81	19.78	19.84	20.48	20.59	20.52
		25	0	20.92	20.87	20.91	19.67	19.57	19.62	20.88	20.83	20.78
25		12	21.02	20.88	21.01	19.78	19.58	19.66	20.95	20.93	20.87	
25		24	20.96	20.91	20.94	19.74	19.62	19.69	20.90	20.92	20.89	
50		0	20.97	20.94	20.89	19.76	19.56	19.64	20.93	20.89	20.84	

OUTPUT POWER FOR LTE BAND 26 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				26865	26915	26965	26865	26915	26965	26865	26915	26965
15.0	QPSK	1	0	25.57	25.59	25.62	24.70	24.67	24.64	25.40	25.26	25.26
		1	24	25.57	25.64	25.70	24.70	24.61	24.62	25.37	25.27	25.27
		1	49	25.57	25.64	25.65	24.56	24.52	24.50	25.25	25.18	25.15
		25	0	24.99	25.06	25.10	23.80	23.76	23.71	24.40	24.36	24.33
		25	12	25.04	25.03	25.12	23.76	23.71	23.68	24.45	24.43	24.34
		25	24	25.03	25.12	25.19	23.82	23.75	23.75	24.40	24.42	24.40
	16QAM	50	0	25.09	25.15	25.16	23.78	23.76	23.72	24.46	24.44	24.35
		1	0	25.39	25.43	25.40	23.96	23.93	23.87	24.42	24.54	24.53
		1	24	25.44	25.58	25.64	23.99	23.95	23.91	24.43	24.55	24.58
		1	49	25.33	25.44	25.45	23.78	23.79	23.79	24.33	24.44	24.51
		25	0	24.02	24.05	24.13	22.79	22.75	22.71	23.38	23.34	23.34
		25	12	24.05	24.06	24.12	22.74	22.71	22.67	23.41	23.40	23.33
	64QAM	25	24	24.04	24.13	24.20	22.80	22.75	22.75	23.41	23.41	23.42
		50	0	24.08	24.16	24.13	22.78	22.76	22.71	23.44	23.43	23.36
		1	0	24.28	24.31	24.31	23.09	22.91	23.08	23.66	23.57	23.60
		1	24	24.26	24.34	24.42	22.99	22.89	23.06	23.65	23.60	23.66
		1	49	24.20	24.32	24.35	22.86	22.78	22.97	23.56	23.49	23.53
		25	0	23.02	23.04	23.12	21.78	21.80	21.72	22.37	22.36	22.33
	256QAM	25	12	23.04	23.02	23.10	21.75	21.75	21.70	22.42	22.41	22.33
		25	24	23.04	23.13	23.17	21.78	21.81	21.74	22.40	22.38	22.42
		50	0	23.06	23.13	23.12	21.76	21.78	21.70	22.45	22.42	22.37
		1	0	21.12	21.13	21.11	19.82	19.95	19.85	20.51	20.41	20.41
		1	24	21.12	21.23	21.25	19.90	19.95	19.88	20.47	20.46	20.45
		1	49	21.22	21.26	21.35	19.94	19.95	19.92	20.49	20.52	20.60
	256QAM	25	0	21.01	21.06	21.07	19.82	19.80	19.75	20.39	20.34	20.36
		25	12	21.03	21.03	21.08	19.81	19.79	19.72	20.44	20.41	20.36
		25	24	21.03	21.11	21.17	19.83	19.82	19.74	20.41	20.42	20.42
		50	0	21.06	21.13	21.11	19.78	19.79	19.72	20.44	20.41	20.36

5G NR n26

Test Engineer ID:	28568	Test Date:	2/8/2023
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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			ANT 3		
				165300	167300	169300	165300	167300	169300	165300	167300	169300
5.0	BPSK	1	0	826.5	836.5	846.5	826.5	836.5	846.5	826.5	836.5	846.5
		1	1	25.24	25.23	25.45	24.06	24.42	24.29	25.20	25.11	25.18
		1	23	25.56	25.46	25.70	24.36	24.66	24.47	25.40	25.34	25.40
		1	24	25.50	25.55	25.66	24.31	24.70	24.42	25.32	25.40	25.33
		1	24	25.36	25.34	25.49	24.10	24.47	24.23	25.10	25.21	25.11
		12	6	25.65	25.47	25.66	24.34	24.59	24.46	25.28	25.30	25.34
	QPSK	25	0	25.41	25.22	25.39	24.10	24.39	24.20	25.04	25.06	25.09
		1	0	24.93	24.89	24.95	23.74	23.95	23.77	24.60	24.65	24.65
		1	1	25.70	25.60	25.65	24.70	24.63	24.70	25.34	25.33	25.39
		1	23	25.63	25.70	25.63	24.70	24.68	24.63	25.25	25.40	25.28
		1	24	24.91	24.91	24.67	23.91	23.95	23.82	24.56	24.68	24.55
		12	6	25.66	25.51	25.67	24.54	24.65	24.51	25.31	25.30	25.40
	16QAM	25	0	24.92	24.76	24.98	23.84	23.93	23.78	24.60	24.60	24.63
		1	0	24.05	24.04	24.20	23.03	22.84	22.97	23.55	23.66	23.68
		1	1	25.20	24.95	25.16	24.02	23.92	23.98	24.62	24.74	24.77
		1	23	25.16	24.98	24.91	23.91	23.93	23.88	24.50	24.85	24.74
		1	24	24.07	24.03	23.99	22.94	22.98	22.97	23.47	23.69	23.63
		12	6	24.85	24.68	24.92	23.78	23.87	23.77	24.51	24.59	24.65
	64QAM	25	0	23.91	23.68	23.84	22.83	22.82	22.75	23.58	23.67	23.65
		1	0	23.22	22.93	23.17	22.27	22.55	22.58	23.12	23.32	23.46
		1	1	23.31	23.01	23.25	22.29	22.52	22.59	23.17	23.37	23.45
		1	23	23.40	23.08	23.11	22.21	22.51	22.52	23.11	23.39	23.38
		1	24	23.14	23.02	23.07	22.26	22.57	22.53	23.09	23.37	23.36
		12	6	23.35	23.21	23.34	22.21	22.37	22.26	23.09	23.02	23.14
	256QAM	25	0	23.44	23.16	23.33	22.24	22.34	22.30	23.04	23.09	23.09
		1	0	21.28	21.21	21.18	20.35	20.70	20.37	21.26	21.23	21.46
		1	1	21.23	21.18	21.22	20.44	20.69	20.35	21.30	21.28	21.50
		1	23	21.09	21.28	21.14	20.40	20.83	20.31	21.27	21.33	21.37
		1	24	21.19	21.28	21.21	20.28	20.79	20.23	21.25	21.32	21.34
		12	6	21.30	21.07	21.27	20.34	20.44	20.32	21.07	21.09	21.09
		25	0	21.38	21.11	21.30	20.18	20.33	20.28	21.07	21.08	

OUTPUT POWER FOR 5G NR n26 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				165800	167300	168800	165800	167300	168800	165800	167300	168800
10.0	BPSK	1	0	829.0	836.5	844.0	829.0	836.5	844.0	829.0	836.5	844.0
		1	1	25.27	25.40	25.49	24.46	24.42	24.34	25.16	25.00	25.15
		1	50	25.50	25.59	25.67	24.68	24.68	24.54	25.39	25.24	25.39
		1	51	25.52	25.63	25.64	24.60	24.70	24.44	25.34	25.22	25.27
		1	51	25.34	25.42	25.42	24.47	24.50	24.24	25.17	24.98	25.08
		25	12	25.49	25.58	25.63	24.65	24.56	24.48	25.28	25.13	25.31
	QPSK	50	0	25.31	25.41	25.44	24.53	24.42	24.34	25.14	24.97	25.17
		1	0	24.93	25.00	25.06	23.97	23.96	23.91	24.64	24.66	24.73
		1	1	25.63	25.70	25.70	24.70	24.68	24.70	25.40	25.40	25.40
		1	50	25.70	25.70	25.60	24.64	24.70	24.59	25.36	25.35	25.26
		1	51	24.92	24.95	24.58	23.98	23.98	23.83	24.61	24.58	24.38
		25	12	25.53	25.62	25.65	24.70	24.62	24.50	25.34	25.24	25.37
	16QAM	50	0	24.86	24.96	24.96	24.01	23.97	23.84	24.61	24.52	24.66
		1	0	23.88	23.83	23.82	22.96	22.84	23.07	23.43	23.62	23.48
		1	1	24.77	24.80	24.80	24.00	23.88	24.13	24.45	24.63	24.56
		1	50	24.80	24.81	24.66	24.03	24.01	23.93	24.52	24.59	24.43
		1	51	23.67	23.80	23.52	23.02	22.82	23.03	23.43	23.58	23.36
		25	12	24.80	24.90	24.87	23.97	23.92	23.77	24.67	24.53	24.63
	64QAM	50	0	23.77	23.87	23.86	22.94	22.90	22.78	23.60	23.49	23.59
		1	0	23.06	23.04	23.00	22.56	22.40	22.51	23.34	23.45	23.16
		1	1	23.08	23.15	23.04	22.48	22.50	22.39	23.33	23.45	23.18
		1	50	23.06	23.07	23.02	22.54	22.41	22.43	23.35	23.42	23.07
		1	51	23.03	22.93	22.94	22.56	22.33	22.30	23.33	23.40	23.07
		25	12	23.35	23.32	23.36	22.46	22.34	22.18	23.04	22.95	23.07
	256QAM	50	0	23.31	23.38	23.38	22.47	22.41	22.23	23.06	22.96	23.10
		1	0	21.17	21.26	21.14	20.45	20.63	20.49	21.20	21.10	21.38
		1	1	21.33	21.27	21.11	20.56	20.72	20.45	21.22	21.12	21.35
		1	50	21.29	21.26	20.99	20.48	20.59	20.46	21.18	21.08	21.27
		1	51	21.21	21.27	21.10	20.53	20.63	20.31	21.13	21.06	21.24
		25	12	21.14	21.26	21.36	20.44	20.41	20.26	21.02	20.92	21.03
		50	0	21.25	21.33	21.36	20.44	20.37	20.22	21.01	20.90	

OUTPUT POWER FOR 5G NR n26 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)									
				ANT 1			ANT 2			ANT 3			
				163300	167300	168300	163300	167300	168300	163300	167300	168300	
15.0	BPSK	1	0	25.48	25.53	25.55	24.42	24.47	24.47	25.03	25.16	25.14	
		1	1	25.53	25.67	25.63	24.68	24.67	24.64	25.07	25.39	25.26	
		1	77	25.49	25.67	25.62	24.53	24.59	24.56	25.40	25.33	25.18	
		1	78	25.29	25.42	25.42	24.34	24.39	24.39	25.14	25.11	25.01	
		36	18	25.56	25.48	25.59	24.52	24.47	24.53	25.11	25.21	25.21	
		75	0	25.44	25.36	25.43	24.37	24.40	24.40	24.94	25.06	25.07	
		1	0	25.07	24.98	25.06	24.02	23.91	24.05	24.36	24.67	24.77	
		1	1	25.66	25.70	25.70	24.70	24.70	24.70	24.95	25.40	25.40	
		1	77	25.55	25.60	25.68	24.53	24.60	24.66	25.33	25.35	25.34	
	QPSK	1	78	24.86	24.85	24.65	23.80	23.86	23.99	24.58	24.61	24.43	
		36	18	25.70	25.56	25.69	24.55	24.60	24.60	25.05	25.31	25.28	
		75	0	24.98	24.94	25.00	23.88	23.90	23.96	24.43	24.61	24.63	
		1	0	23.96	24.03	23.92	22.95	23.18	23.33	23.14	23.59	23.87	
		1	1	24.82	24.78	24.72	23.87	24.15	24.28	23.89	24.65	24.80	
		1	77	24.69	24.60	24.65	23.62	24.14	24.17	24.24	24.55	24.74	
		1	78	23.67	23.82	23.67	22.66	23.02	23.29	23.40	23.53	23.63	
		36	18	24.95	24.95	24.92	23.91	23.93	23.96	24.36	24.65	24.59	
		75	0	23.91	23.91	24.01	22.90	22.93	22.96	23.43	23.63	23.60	
	16QAM	1	0	23.26	23.31	23.27	22.59	22.54	22.28	22.82	23.47	23.29	
		1	1	23.13	23.38	23.20	22.60	22.61	22.20	22.78	23.47	23.21	
		1	77	23.07	23.23	23.12	22.26	22.57	22.22	23.09	23.39	23.14	
		1	78	23.08	23.24	23.02	22.32	22.53	22.11	22.96	23.41	23.11	
		36	18	23.45	23.29	23.42	22.35	22.32	22.38	22.82	23.11	23.08	
		75	0	23.41	23.41	23.50	22.32	22.38	22.39	22.86	23.07	23.08	
		1	0	21.54	21.26	21.13	20.66	20.72	20.82	20.75	21.47	21.36	
		1	1	21.38	21.27	21.40	20.76	20.78	20.59	20.72	21.43	21.24	
		1	77	21.41	21.21	21.20	20.61	20.62	20.56	21.23	21.45	21.26	
	64QAM	1	78	21.50	21.22	21.08	20.62	20.77	20.55	21.18	21.44	21.25	
		36	18	21.46	21.42	21.40	20.25	20.32	20.39	20.78	20.98	20.96	
		75	0	21.45	21.33	21.40	20.37	20.35	20.38	20.88	21.05	21.02	
		256QAM	1	0	21.45	21.33	21.40	20.37	20.35	20.38	20.88	21.05	21.02

OUTPUT POWER FOR 5G NR n26 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)									
				ANT 1			ANT 2			ANT 3			
				162800	167300	167800	162800	167300	167800	162800	167300	167800	
20.0	BPSK	1	0	25.49	25.48	25.63	24.49	24.46	24.55	24.73	24.82	24.85	
		1	1	25.59	25.70	25.70	24.70	24.55	24.67	24.86	25.40	25.37	
		1	104	25.61	25.59	25.64	24.56	24.37	24.59	25.40	25.19	25.24	
		1	105	25.33	25.45	25.37	24.34	24.29	24.36	25.18	24.70	24.67	
		50	25	25.66	25.55	25.60	24.51	24.44	24.53	25.06	25.23	25.26	
		100	0	25.45	25.39	25.45	24.34	24.26	24.38	24.85	24.67	24.71	
		1	0	25.00	25.06	25.10	23.96	23.99	24.09	24.23	24.28	24.31	
		1	1	25.59	25.70	25.69	24.65	24.70	24.70	24.89	25.36	25.40	
		QPSK	1	104	25.64	25.65	25.52	24.51	24.59	24.57	25.37	25.16	25.19
	1		105	24.92	24.97	24.69	23.79	23.90	23.83	24.61	24.09	24.14	
	50		25	25.70	25.63	25.61	24.50	24.51	24.61	25.04	25.18	25.23	
	100		0	25.00	24.88	24.98	23.83	23.81	23.88	24.32	24.16	24.22	
	1		0	24.27	23.71	23.77	23.02	22.88	22.96	22.93	22.99	23.60	
	1		1	25.20	24.58	24.68	23.95	23.82	23.94	23.90	23.94	24.67	
	1		104	25.13	24.63	24.48	23.87	23.83	23.80	24.35	23.76	24.54	
	1		105	24.09	23.63	23.41	22.91	22.77	22.72	23.29	22.65	23.51	
	50		25	24.95	24.87	24.84	23.81	23.71	23.90	24.22	24.10	24.21	
	16QAM	100	0	23.95	23.94	23.93	22.82	22.83	22.86	23.31	23.18	23.24	
		1	0	23.34	23.24	23.43	22.72	22.39	22.46	22.73	22.75	22.96	
		1	1	23.28	23.19	23.21	22.49	22.41	22.28	22.68	22.81	22.98	
		64QAM	1	104	23.26	23.04	23.11	22.40	22.29	22.30	23.24	22.41	22.78
			1	105	23.34	23.18	23.10	22.34	22.30	22.18	23.10	22.42	22.69
			50	25	23.45	23.42	23.42	22.28	22.22	22.30	22.70	22.65	22.68
			100	0	23.45	23.42	23.41	22.26	22.22	22.27	22.77	22.69	22.73
			1	0	21.07	21.16	21.28	20.53	20.47	20.64	20.66	20.91	21.01
			256QAM	1	1	21.07	21.06	21.22	20.65	20.41	20.69	20.73	20.65
	1			104	21.06	20.94	21.11	20.53	20.33	20.43	21.08	20.69	20.80
	1			105	20.96	21.09	20.98	20.64	20.42	20.47	21.26	20.74	20.90
	50			25	21.39	21.32	21.36	20.31	20.23	20.32	20.69	20.57	20.61
	100	0		21.39	21.37	21.37	20.34	20.14	20.29	20.71	20.63	20.66	

8.9. LTE BAND 30 AND 5G NR n30

LTE Band 30

Test Engineer ID:	28567	Test Date:	3/31/2023
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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	25.57	25.55	25.63	23.61	23.60	23.63	24.82	24.90	24.92	22.59	22.56	22.62
		1	12	25.70	25.70	25.70	23.70	23.70	23.70	24.90	25.00	25.00	22.70	22.70	22.70
		1	24	25.61	25.56	25.64	23.64	23.61	23.65	24.78	24.88	24.88	22.59	22.60	22.63
		12	0	24.95	24.92	24.96	22.64	22.61	22.63	23.82	23.94	23.92	21.62	21.61	21.63
		12	6	25.00	24.94	24.99	22.68	22.64	22.69	23.85	23.97	23.95	21.64	21.63	21.65
		12	11	24.93	24.93	24.97	22.65	22.61	22.64	23.76	23.95	23.92	21.64	21.62	21.62
	16QAM	25	0	24.95	24.90	24.96	22.68	22.62	22.66	23.83	23.93	23.93	21.62	21.61	21.60
		1	0	25.16	25.04	25.19	22.95	22.75	22.82	24.27	24.35	24.27	21.84	21.69	21.72
		1	12	25.31	25.19	25.21	22.82	22.85	22.83	24.41	24.44	24.31	21.91	21.84	21.80
		1	24	25.16	25.13	25.15	22.31	22.79	22.82	24.23	24.33	24.23	21.85	21.73	21.75
		12	0	24.02	23.92	23.87	21.99	21.58	21.74	23.02	22.98	22.89	20.60	20.55	20.58
		12	6	24.04	23.95	23.89	22.06	21.62	21.77	23.06	23.02	22.92	20.63	20.57	20.60
	64QAM	12	11	24.00	23.93	23.88	22.08	21.58	21.75	22.96	22.99	22.90	20.63	20.56	20.58
		25	0	23.95	23.93	23.94	22.13	21.65	21.65	23.00	22.95	22.95	20.67	20.62	20.64
		1	0	24.04	23.96	23.94	22.21	21.66	21.68	23.83	24.05	23.96	20.73	20.78	20.88
		1	12	24.07	24.06	24.01	21.87	21.75	21.69	23.92	24.10	23.95	20.73	20.85	20.87
		1	24	24.01	23.98	23.98	21.82	21.69	21.67	23.93	23.97	23.93	20.71	20.78	20.81
		12	0	22.95	22.89	22.94	20.64	20.61	20.66	22.67	22.70	22.73	19.68	19.63	19.67
	256QAM	12	6	22.98	22.92	22.98	20.69	20.65	20.68	22.71	22.72	22.77	19.71	19.67	19.69
		12	11	22.96	22.89	22.93	20.66	20.63	20.65	22.68	22.70	22.73	19.69	19.66	19.67
		25	0	22.91	22.87	22.94	20.66	20.63	20.65	22.71	22.69	22.69	19.69	19.64	19.66
		1	0	21.07	20.91	21.00	18.78	18.73	18.72	20.73	20.86	20.76	17.71	17.64	17.66
		1	12	21.10	20.96	21.03	18.84	18.80	18.81	20.80	20.88	20.83	17.82	17.81	17.78
		1	24	21.01	20.87	21.04	18.76	18.69	18.76	20.69	20.82	20.74	17.75	17.66	17.65

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	25.67			23.70			24.91			22.67		
		1	24	25.70			23.67			24.94			22.70		
		1	49	25.67			23.65			24.93			22.69		
		25	0	25.04			22.73			23.94			21.70		
		25	12	25.06			22.79			23.96			21.74		
		25	24	25.02			22.68			23.87			21.70		
	16QAM	50	0	25.04			22.76			23.94			21.70		
		1	0	25.26			22.91			24.28			21.84		
		1	24	25.21			22.91			24.17			21.84		
		1	49	25.20			22.87			24.25			21.85		
		25	0	24.04			21.77			22.96			20.72		
		25	12	24.05			21.77			22.96			20.74		
	64QAM	25	24	24.01			21.70			22.88			20.71		
		50	0	24.03			21.75			22.96			20.72		
		1	0	24.12			21.92			23.81			20.84		
		1	24	24.17			21.90			23.92			20.89		
		1	49	24.10			21.83			23.85			20.83		
		25	0	23.02			20.74			22.74			19.72		
	256QAM	25	12	23.05			20.76			22.76			19.74		
		25	24	23.02			20.71			22.76			19.71		
		50	0	23.01			20.74			22.75			19.72		
		1	0	21.00			18.86			20.76			17.71		
		1	24	21.14			18.91			20.89			17.84		
		1	49	21.07			18.77			20.81			17.73		

5G NR n30

Test Engineer ID:	28568	Test Date:	2/7/2023
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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	20.42	20.28	20.38	18.50	18.44	18.35	19.78	19.65	19.67	17.37	17.41	17.45
		1	1	20.53	20.54	20.53	18.68	18.67	18.58	19.97	19.91	19.91	17.58	17.63	17.70
		1	23	20.64	20.54	20.54	18.69	18.69	18.61	19.89	19.89	19.92	17.51	17.61	17.70
		1	24	20.49	20.34	20.39	18.44	18.37	18.37	19.73	19.70	19.74	17.23	17.33	17.46
		12	6	20.68	20.60	20.70	18.68	18.70	18.70	19.98	19.95	20.00	17.54	17.67	17.69
		25	0	25.20	25.17	25.20	23.20	23.16	23.20	24.50	24.48	24.48	22.09	22.09	22.20
	QPSK	1	0	19.95	19.81	19.84	17.51	17.42	17.70	19.18	19.24	19.15	16.92	16.94	16.92
		1	1	20.68	20.60	20.53	18.43	18.28	18.63	20.00	19.92	19.92	17.70	17.70	17.70
		1	23	20.61	20.54	20.55	18.23	18.02	18.58	19.96	20.00	19.95	17.59	17.68	17.64
		1	24	19.93	19.82	19.81	17.38	17.13	17.65	19.18	19.23	19.18	16.74	16.83	16.90
		12	6	20.70	20.70	20.66	18.70	18.44	18.59	19.96	19.94	19.97	17.58	17.61	17.66
		25	0	24.78	24.65	24.71	22.40	21.88	22.45	24.02	23.99	24.03	21.60	21.37	21.73
	16QAM	1	0	19.63	19.32	19.52	17.60	17.04	17.61	18.72	18.88	18.88	16.68	16.54	16.40
		1	1	20.60	20.25	20.49	18.52	18.08	18.66	19.77	19.85	19.95	17.70	17.47	17.38
		1	23	20.70	20.29	20.45	18.27	17.78	18.70	19.65	19.86	20.00	17.57	17.35	17.36
		1	24	19.55	19.29	19.51	17.35	16.73	17.73	18.66	18.74	18.97	16.65	16.39	16.32
		12	6	20.55	20.37	20.43	18.68	18.53	18.53	19.69	19.80	19.62	17.45	17.55	17.64
		25	0	23.76	23.67	23.69	21.83	21.41	21.57	23.02	22.97	23.00	20.62	20.71	20.75
	64QAM	1	0	20.29	20.29	20.17	18.50	18.64	18.14	19.86	19.93	19.88	17.36	17.70	17.57
		1	1	20.21	20.35	20.33	18.61	18.64	18.30	19.98	20.00	19.88	17.37	17.68	17.59
		1	23	20.30	20.46	20.28	18.53	18.36	18.30	19.71	19.82	19.87	17.40	17.66	17.60
		1	24	20.30	20.42	20.10	18.65	18.38	18.21	19.93	19.91	19.69	17.37	17.66	17.58
		12	6	20.70	20.59	20.55	18.70	18.57	18.63	19.95	19.87	19.89	17.38	17.34	17.42
		25	0	23.30	23.21	23.14	21.27	21.01	21.10	22.52	22.52	22.52	20.16	20.19	20.24
	256QAM	1	0	20.66	20.55	20.42	18.66	18.58	18.52	19.67	19.80	19.70	17.56	17.60	17.53
		1	1	20.66	20.62	20.49	18.70	18.52	18.42	19.68	19.79	19.63	17.62	17.61	17.56
		1	23	20.64	20.60	20.51	18.64	18.69	18.45	19.69	19.84	19.62	17.60	17.59	17.60
		1	24	20.59	20.57	20.46	18.70	18.65	18.46	19.77	19.83	19.67	17.57	17.56	17.60
		12	6	20.70	20.63	20.59	18.67	18.67	18.53	19.92	20.00	19.82	17.62	17.56	17.70
		25	0	21.27	21.14	21.14	19.25	19.19	19.13	20.43	20.44	20.41	18.17	18.20	18.32

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	20.56			18.45			19.77			17.43		
		1	1	20.70			18.70			19.93			17.70		
		1	50	20.68			18.69			20.00			17.66		
		1	51	20.55			18.44			19.80			17.46		
		25	12	20.62			18.58			19.89			17.58		
		50	0	25.20			23.20			24.50			22.20		
	QPSK	1	0	19.83			17.49			19.25			16.98		
		1	1	20.64			18.47			19.99			17.70		
		1	50	20.70			17.98			20.00			17.66		
		1	51	19.86			17.06			19.17			16.94		
		25	12	20.58			18.70			19.89			17.64		
		50	0	24.60			21.95			23.95			21.69		
	16QAM	1	0	19.74			17.11			18.85			16.51		
		1	1	20.67			17.96			19.94			17.53		
		1	50	20.70			17.62			19.93			17.49		
		1	51	19.71			16.64			18.83			16.49		
		25	12	20.69			18.70			20.00			17.70		
		50	0	23.59			21.54			22.99			20.74		
	64QAM	1	0	20.56			18.70			19.93			17.68		
		1	1	20.51			18.64			19.97			17.70		
		1	50	20.56			18.26			19.91			17.63		
		1	51	20.60			18.16			20.00			17.62		
		25	12	20.70			18.32			19.67			17.43		
		50	0	23.14			21.16			22.49			20.27		
	256QAM	1	0	20.49			18.56			19.87			17.60		
		1	1	20.51			18.54			19.85			17.69		
		1	50	20.53			18.70			19.92			17.70		
		1	51	20.60			18.53			19.77			17.65		
		25	12	20.70			18.69			20.00			17.33		
		50	0	21.10			19.19			20.45			18.22		

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	27.61	28.45	27.65	27.74	27.49	27.85	25.69	27.93	26.91	26.30	26.94	26.25
		1	37	27.70	28.59	27.70	27.78	28.70	27.91	26.17	28.00	27.00	26.17	27.70	26.30
		1	74	27.60	28.49	27.61	27.70	28.70	27.81	26.20	28.00	26.89	26.11	27.70	26.24
		36	0	27.69	28.68	27.60	27.13	28.16	27.24	25.06	27.58	25.98	25.27	27.42	25.36
		36	16	27.70	28.70	27.60	27.06	28.46	27.26	25.24	27.60	25.97	25.20	27.59	25.35
		36	35	27.59	28.59	27.62	27.04	28.70	27.26	25.22	27.52	25.96	25.18	27.70	25.29
		75	0	27.69	28.68	27.58	27.06	28.43	27.26	25.19	27.44	25.94	25.18	27.55	25.35
		1	0	26.88	28.62	26.77	27.49	27.51	27.50	25.03	27.12	26.32	25.60	26.08	25.61
	1	37	26.92	28.65	27.07	27.46	28.65	27.49	25.51	27.20	26.25	25.59	26.77	25.57	
	1	74	26.80	28.65	26.87	27.44	28.66	27.52	25.57	27.30	26.28	25.50	26.68	25.69	
	36	0	26.68	27.70	26.62	26.16	27.15	26.26	24.11	26.46	25.00	24.29	26.40	24.38	
	36	16	26.70	27.71	26.63	26.11	27.42	26.27	24.27	26.48	25.00	24.21	26.56	24.39	
	36	35	26.59	27.61	26.65	26.07	27.67	26.27	24.24	26.40	24.98	24.19	26.66	24.30	
	75	0	26.67	27.68	26.62	26.10	27.39	26.26	24.22	26.42	24.98	24.19	26.51	24.36	
	1	0	25.75	27.70	25.86	26.31	26.88	26.06	23.66	26.03	24.65	23.42	26.09	23.48	
	1	37	25.95	27.88	26.02	26.34	26.90	26.09	24.22	25.88	24.65	23.61	26.10	23.51	
	1	74	25.67	27.79	25.84	26.33	26.91	26.12	24.35	26.01	24.63	23.66	26.12	23.56	
	36	0	25.67	26.67	25.60	25.08	25.57	24.90	22.77	24.67	23.50	22.21	24.77	22.30	
	36	16	25.69	26.67	25.62	25.09	25.57	24.90	22.89	24.65	23.48	22.33	24.77	22.33	
	36	35	25.57	26.59	25.64	24.99	25.49	24.83	22.99	24.64	23.48	22.28	24.72	22.23	
	75	0	25.68	26.65	25.63	25.09	25.55	24.89	22.88	24.65	23.50	22.21	24.77	22.30	
	1	0	22.89	24.65	22.80	23.22	23.64	22.88	20.50	22.89	21.45	20.13	22.85	20.27	
	1	37	22.91	24.80	22.96	23.28	23.66	22.93	21.04	22.80	21.43	20.38	22.94	20.29	
	1	74	22.71	24.57	22.85	23.20	23.61	22.90	21.28	22.84	21.40	20.49	22.88	20.29	
	36	0	23.69	24.66	23.60	23.10	23.58	22.87	20.75	22.68	21.50	20.20	22.78	20.29	
	36	16	23.66	24.67	23.63	23.08	23.59	22.89	20.90	22.65	21.48	20.28	22.79	20.29	
	36	35	23.60	24.60	23.62	23.02	23.51	22.84	21.01	22.64	21.47	20.29	22.72	20.22	
	75	0	23.65	24.67	23.62	23.10	23.59	22.92	20.88	22.68	21.48	20.22	22.78	20.29	

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	27.70	28.43	27.64	23.26	27.18	26.13	25.70	28.00	27.00	26.25	26.76	26.30
		1	49	27.70	28.22	27.70	26.30	28.70	26.30	26.15	27.74	26.97	26.30	27.70	26.24
		1	99	27.63	28.43	27.70	26.27	28.70	26.12	26.20	27.64	26.95	26.14	27.70	26.26
		50	0	27.70	28.68	27.64	21.59	28.00	25.17	25.08	27.19	26.01	25.29	27.31	25.31
		50	24	27.70	28.70	27.66	21.59	28.42	25.23	25.25	27.14	26.03	25.31	27.47	25.31
		50	49	27.58	28.62	27.58	24.60	28.70	25.20	25.20	27.09	26.01	25.19	27.70	25.22
		100	0	27.67	28.68	27.63	21.54	28.30	25.17	25.20	27.14	26.01	25.29	27.45	25.29
		1	0	26.86	28.61	26.82	21.82	27.15	25.45	24.96	27.62	26.49	25.52	25.84	25.80
	1	49	27.06	28.61	27.10	24.83	28.48	25.60	25.62	27.57	26.95	25.62	26.62	25.96	
	1	99	26.69	28.60	26.90	24.77	28.55	25.41	25.53	27.35	26.38	25.44	26.47	25.67	
	50	0	26.69	27.59	26.64	20.67	27.00	24.25	24.09	26.19	25.03	24.31	26.29	24.30	
	50	24	26.67	27.60	26.66	20.68	27.38	24.27	24.27	26.14	25.03	24.30	26.44	24.31	
	50	49	26.55	27.53	26.59	23.65	27.70	24.24	24.22	26.08	25.01	24.17	26.70	24.23	
	100	0	26.69	27.63	26.67	20.57	27.30	24.22	24.20	26.12	25.02	24.26	26.41	24.29	
	1	0	25.67	27.46	25.79	22.68	25.04	23.27	23.59	26.01	24.71	23.35	25.93	23.41	
	1	49	25.92	28.16	25.98	22.71	25.29	23.35	24.70	25.93	24.72	23.59	26.05	23.38	
	1	99	25.64	27.67	25.77	22.80	24.83	23.34	24.31	25.90	24.67	23.61	26.02	23.46	
	50	0	25.64	26.57	25.63	21.36	23.80	22.15	22.78	24.63	23.56	22.29	24.65	22.22	
	50	24	25.66	26.60	25.63	21.43	23.83	22.16	23.00	24.60	23.57	22.40	24.69	22.27	
	50	49	25.55	26.51	25.57	21.38	23.80	22.18	23.00	24.57	23.53	22.35	24.62	22.19	
	100	0	25.66	26.57	25.62	21.33	23.78	22.11	22.96	24.58	23.53	22.37	24.66	22.24	
	1	0	22.89	24.55	22.76	19.40	21.76	20.27	20.58	22.76	21.67	20.32	22.69	20.31	
	1	49	22.86	24.77	22.86	19.56	22.17	20.15	21.16	22.63	21.64	20.59	22.69	20.37	
	1	99	22.61	24.55	22.76	19.52	21.69	20.17	21.32	22.73	21.65	20.63	22.73	20.32	
	50	0	23.63	24.56	23.59	19.39	21.80	20.09	20.79	22.65	21.55	20.23	22.66	20.22	
	50	24	23.66	24.60	23.62	19.48	21.85	20.16	21.00	22.62	21.56	20.38	22.68	20.26	
	50	49	23.55	24.52	23.55	19.42	21.83	20.14	21.04	22.63	21.51	20.35	22.60	20.21	
	100	0	23.63	24.58	23.61	19.35	21.80	20.12	20.97	22.62	21.53	20.34	22.67	20.22	

5G NR n41

Test Engineer ID:	28568	Test Date:	3/28/2023
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OUTPUT POWER FOR 5G NR n41 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				500200	518600	537000	500200	518600	537000	500200	518600	537000	500200	518600	537000
10.0	BPSK	1	0	22.31	25.77	24.90	22.11	24.97	24.33	20.44	24.14	22.72	20.31	24.42	23.37
		1	1	22.14	28.70	28.00	22.04	28.59	27.70	20.56	27.70	26.15	20.29	27.97	27.00
		1	22	28.00	28.36	27.49	27.70	28.21	26.94	26.30	27.69	26.26	26.20	27.79	26.43
		1	23	24.36	25.87	24.97	24.16	25.11	24.43	22.77	24.12	22.66	22.61	24.45	23.33
		12	6	24.32	28.24	27.45	24.06	28.70	27.31	22.58	27.62	26.18	22.43	28.00	26.89
		24	0	24.38	27.87	27.10	24.05	28.29	27.01	22.62	27.13	25.73	22.47	27.47	26.41
		1	0	21.84	25.90	24.80	21.70	25.07	24.42	19.92	24.03	22.71	19.86	24.50	23.27
		1	1	21.74	27.74	27.09	21.59	28.43	27.13	19.90	27.65	26.30	19.84	27.83	26.75
	1	22	27.25	27.67	26.80	27.29	28.27	26.35	26.25	27.47	25.88	26.16	27.68	25.93	
	1	23	24.23	25.91	24.84	24.12	25.16	24.42	22.68	23.99	22.75	22.58	24.44	23.27	
	12	6	23.31	27.63	26.86	23.11	28.16	26.60	21.62	27.58	26.15	21.51	27.39	26.12	
	24	0	23.19	27.03	26.23	23.14	27.29	25.93	21.70	26.67	25.26	21.58	26.76	25.34	
	1	0	21.79	25.87	24.71	21.78	24.76	24.54	19.79	24.46	22.95	20.03	24.72	23.60	
	1	1	21.79	27.17	26.40	21.67	27.25	26.51	19.95	27.11	25.41	20.01	27.03	25.83	
	1	22	26.58	27.09	26.14	26.39	27.23	25.79	25.24	27.12	25.41	25.32	26.98	25.14	
	1	23	24.03	25.72	24.71	24.24	24.78	24.46	22.58	24.46	22.91	22.55	24.71	23.53	
	12	6	22.72	27.07	26.28	22.50	27.36	25.97	21.19	26.51	25.33	21.14	26.81	25.31	
	24	0	22.80	26.36	25.50	22.49	26.40	25.13	21.19	25.55	24.15	20.94	25.79	24.58	
	1	0	21.59	26.01	24.93	21.07	25.33	24.48	19.75	23.93	22.79	19.54	24.62	23.55	
	1	1	21.51	26.47	25.57	21.32	26.22	25.19	19.63	25.34	23.79	19.46	25.60	24.54	
	1	22	25.58	26.33	25.27	25.12	26.54	24.42	23.94	25.18	24.01	23.75	25.52	24.01	
	1	23	24.69	26.22	24.87	24.13	25.32	24.85	23.00	24.25	22.68	22.78	24.49	23.28	
	12	6	22.86	25.95	25.02	22.48	26.10	24.93	21.20	24.91	23.65	20.98	25.47	24.28	
	24	0	22.77	26.06	25.15	22.59	26.03	24.79	21.21	25.06	23.68	21.08	25.40	24.15	
	1	0	19.66	24.75	23.62	19.42	24.08	23.01	18.19	23.05	21.99	17.88	23.78	22.50	
	1	1	19.62	24.75	23.76	19.47	24.03	23.47	18.21	23.11	22.10	17.78	23.71	22.50	
	1	22	23.40	24.81	23.97	23.03	23.92	23.16	21.90	23.23	22.17	21.47	23.63	22.47	
	1	23	23.49	24.77	23.79	23.19	24.05	23.13	21.98	23.03	22.06	21.42	23.63	22.47	
	12	6	21.29	24.78	23.94	21.09	23.96	23.27	19.47	23.05	21.62	19.44	23.41	22.38	
	24	0	21.29	24.74	23.93	21.20	23.96	23.26	19.62	23.06	21.73	19.47	23.43	22.37	

OUTPUT POWER FOR 5G NR n41 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				500700	518600	536500	500700	518600	536500	500700	518600	536500	500700	518600	536500
15.0	BPSK	1	0	22.60	25.83	25.05	22.04	25.01	23.97	19.63	24.04	22.75	19.72	24.51	23.45
		1	1	22.51	28.70	28.00	22.19	28.70	27.70	20.39	27.65	26.24	19.79	28.00	27.00
		1	36	28.00	28.43	27.68	27.70	28.55	27.08	26.30	27.60	25.75	26.20	27.58	26.03
		1	37	24.70	26.00	25.16	24.17	25.09	24.07	22.71	24.12	22.75	22.29	24.52	23.47
		18	9	24.60	28.27	27.67	24.16	28.60	27.31	22.53	27.55	26.24	22.09	27.92	26.47
		36	0	24.58	27.90	27.20	24.19	28.18	27.02	22.51	27.06	25.69	22.05	27.62	26.27
		1	0	22.05	25.91	25.13	21.65	24.92	23.93	19.82	24.05	22.68	19.26	24.54	23.37
		1	1	22.14	27.76	27.08	21.59	28.18	27.41	19.87	27.70	26.30	19.29	27.58	26.53
	1	36	27.48	27.63	26.97	27.21	28.05	26.32	26.29	26.95	25.17	25.79	27.58	25.37	
	1	37	24.69	25.97	25.18	24.08	25.03	23.95	22.61	24.12	22.70	22.30	24.64	23.33	
	18	9	23.57	27.59	26.99	23.08	27.73	26.27	21.58	27.30	25.71	21.01	27.27	25.61	
	36	0	23.54	27.00	26.33	23.08	27.09	25.94	21.54	26.64	25.16	21.03	26.54	25.04	
	1	0	22.04	25.58	24.67	21.50	25.05	23.85	20.11	23.95	22.84	19.50	24.58	23.48	
	1	1	21.91	27.07	26.11	21.36	27.30	26.37	19.94	26.34	25.37	19.60	26.56	25.63	
	1	36	26.82	27.02	26.01	25.94	27.15	25.55	25.26	26.26	24.88	24.99	26.61	24.62	
	1	37	24.53	25.62	24.73	23.97	25.14	23.84	22.85	24.08	22.83	22.58	24.47	23.57	
	18	9	22.99	27.01	26.40	22.55	27.03	26.08	20.99	26.59	25.20	20.54	26.55	24.88	
	36	0	23.07	26.41	25.74	22.57	26.16	25.09	21.05	25.55	24.14	20.51	25.71	24.23	
	1	0	21.82	25.91	24.91	21.26	25.16	23.97	19.67	24.34	22.56	18.66	24.90	23.23	
	1	1	21.88	26.44	25.43	21.31	25.80	24.94	19.75	25.42	23.59	18.77	25.60	24.18	
	1	36	25.98	26.14	25.38	25.05	25.74	24.50	24.01	25.14	23.62	23.18	25.67	23.20	
	1	37	24.95	26.07	24.89	24.36	25.09	24.07	22.87	24.32	22.71	22.19	24.92	23.00	
	18	9	23.06	25.99	25.49	22.52	25.78	24.89	21.01	25.09	23.60	20.47	25.22	23.89	
	36	0	23.16	26.09	25.51	22.56	25.75	24.73	20.98	25.21	23.60	20.56	25.32	23.90	
	1	0	19.93	24.53	23.96	19.38	23.80	23.02	17.94	23.12	21.72	17.17	23.54	22.34	
	1	1	20.03	24.69	23.77	19.50	23.80	23.10	18.08	23.42	21.56	17.35	23.49	22.53	
	1	36	23.54	24.64	24.08	23.03	23.79	23.14	21.56	23.19	21.74	21.39	23.48	22.28	
	1	37	23.48	24.64	23.93	23.01	23.79	23.09	21.50	23.33	21.66	21.18	23.59	22.29	
	18	9	21.44	24.73	23.96	21.03	23.94	22.98	19.41	23.22	21.57	19.00	23.43	22.26	
	36	0	21.49	24.74	24.02	21.09	23.95	22.96	19.34	23.00	21.56	18.95	23.53	22.12	

OUTPUT POWER FOR 5G NR n41 (100.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 2			ANT 1			ANT 4			ANT 3		
				509200	528600	528000	509200	528600	528000	509200	528600	528000	509200	528600	528000
100.0	BPSK	1	0	22.38	23.18	23.12	22.73	23.45	22.39	21.63	23.28	22.11	21.27	23.31	21.99
		1	1	22.46	23.56	23.52	22.52	23.49	22.60	21.75	23.77	22.09	21.03	23.24	21.83
		1	271	28.00	28.70	27.21	27.50	28.09	26.32	26.04	27.61	26.30	26.20	26.98	25.22
		1	272	24.75	25.74	25.78	24.85	25.70	24.69	24.33	25.91	24.35	23.51	25.10	24.12
		135	67	24.64	28.53	28.00	25.10	28.49	26.53	24.12	27.37	26.19	23.63	27.76	25.54
		270	0	24.63	28.43	27.52	25.06	28.70	27.70	24.11	27.33	26.19	23.75	28.00	27.00
		1	0	21.75	22.92	22.68	22.03	23.17	21.96	20.97	22.82	21.61	20.79	22.95	21.55
		1	1	21.96	23.07	22.84	21.96	23.27	21.96	21.26	22.97	21.68	20.64	22.85	21.47
		1	271	27.29	28.05	26.56	26.89	27.58	26.65	26.06	27.70	25.91	25.88	26.64	25.55
		1	272	24.52	25.83	25.65	24.97	25.76	24.54	24.17	25.93	24.31	23.73	25.17	24.02
		135	67	23.57	27.98	27.47	24.10	27.96	25.97	23.11	27.36	26.23	22.76	27.31	24.96
		270	0	23.57	27.59	26.71	24.06	27.17	25.58	23.12	27.46	26.14	22.72	26.56	24.80
	1	0	21.79	22.91	22.71	21.85	22.82	22.20	21.11	22.69	21.62	20.62	22.61	21.51	
	1	1	21.75	22.80	23.03	22.24	23.47	22.30	21.00	23.15	21.69	20.63	22.48	21.36	
	1	271	26.43	27.39	26.26	26.08	26.24	25.24	26.30	27.62	25.34	24.54	25.40	24.18	
	1	272	24.18	26.08	25.47	24.89	25.44	24.25	24.25	25.68	24.51	23.64	24.55	23.11	
	135	67	23.05	27.41	27.00	23.52	27.11	25.11	22.65	27.29	25.99	22.23	26.32	24.29	
	270	0	23.09	27.01	26.21	23.49	26.28	24.70	22.62	27.04	25.45	22.22	25.52	24.08	
	1	0	21.02	22.11	22.10	21.48	22.47	21.40	20.86	21.91	21.54	20.01	22.44	20.97	
	1	1	20.98	22.24	22.07	21.58	22.98	21.58	20.79	22.26	21.67	20.31	22.35	21.13	
	1	271	25.19	26.15	25.08	24.96	24.97	23.74	25.26	26.42	24.53	23.65	24.39	23.29	
	1	272	24.46	25.25	24.91	24.89	25.08	23.59	24.41	25.71	24.39	23.41	24.35	23.15	
	135	67	23.11	26.49	26.07	23.57	25.69	23.74	22.62	26.58	25.00	22.26	24.98	22.78	
	270	0	23.06	26.56	26.00	23.58	25.72	24.26	22.59	26.61	25.20	22.17	24.97	23.50	
	1	0	19.81	20.74	20.19	20.38	21.50	19.70	19.25	21.26	19.43	18.87	20.35	19.76	
	1	1	19.90	21.19	20.59	20.21	21.43	20.06	19.32	21.49	19.76	18.48	20.65	19.80	
	1	271	23.37	24.89	24.04	23.65	23.50	22.50	23.44	25.32	23.01	22.46	22.26	21.71	
	1	272	23.49	24.62	24.07	23.63	23.44	22.26	23.41	25.01	23.18	22.31	22.19	21.92	
	135	67	21.45	24.55	24.55	22.11	24.30	22.21	21.18	24.60	23.32	20.72	23.56	21.25	
	270	0	21.43	24.56	24.50	22.03	24.33	22.88	21.07	24.54	23.32	20.65	23.60	22.09	

8.11. LTE BAND 48 AND 5G NR n48

LTE Band 48

Test Engineer ID:	28567	Test Date:	2/6/2023
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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	25.19	25.17	25.14	25.81	25.78	25.79	24.63	24.58	24.61	22.68	22.69	22.71
		1	12	25.30	25.30	25.30	25.90	25.90	25.90	24.70	24.70	24.70	22.80	22.80	22.80
		1	24	25.24	25.22	25.13	25.80	25.78	25.78	24.61	24.60	24.62	22.70	22.72	22.74
		12	0	24.58	24.57	24.49	25.16	25.14	25.21	23.99	23.96	23.96	22.06	22.07	22.06
		12	6	24.64	24.57	24.49	25.21	25.17	25.20	23.98	23.98	23.96	22.11	22.09	22.07
	16QAM	12	11	24.60	24.53	24.45	25.18	25.14	25.17	23.96	23.98	23.97	22.03	22.08	22.07
		25	0	24.59	24.52	24.49	25.17	25.15	25.16	23.94	23.95	23.95	22.03	22.10	22.06
		1	0	24.65	24.65	24.69	25.24	25.25	25.35	24.31	24.15	24.36	22.38	22.32	22.52
		1	12	24.74	24.80	24.76	25.37	25.37	25.48	24.43	24.32	24.61	22.47	22.46	22.59
		1	24	24.69	24.73	24.70	25.35	25.33	25.39	24.35	24.19	24.47	22.36	22.37	22.47
	64QAM	12	0	23.61	23.62	23.50	24.13	24.25	24.05	23.01	22.99	23.00	21.12	21.04	21.12
		12	6	23.67	23.67	23.50	24.16	24.27	24.08	23.03	22.99	23.03	21.13	21.13	21.15
		12	11	23.61	23.64	23.48	24.17	24.24	24.01	23.02	22.99	23.03	21.09	21.11	21.15
		25	0	23.60	23.56	23.52	24.19	24.16	24.18	23.00	23.01	23.00	21.08	21.12	21.07
		1	0	23.78	23.66	23.64	24.35	24.36	24.40	22.83	22.71	22.68	20.30	20.21	20.11
	256QAM	1	12	23.77	23.63	23.75	24.47	24.42	24.45	22.88	22.83	22.68	20.32	20.29	20.14
		1	24	23.73	23.57	23.59	24.36	24.41	24.35	22.91	22.79	22.59	20.24	20.22	20.04
		12	0	22.62	22.53	22.60	23.18	23.13	23.17	21.65	21.43	21.44	19.16	19.10	18.90
		12	6	22.63	22.57	22.56	23.26	23.19	23.23	21.69	21.46	21.49	19.19	19.09	18.93
		12	11	22.62	22.54	22.57	23.22	23.15	23.18	21.62	21.42	21.43	19.17	19.02	18.91

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	25.27	25.30	25.28	25.81	25.81	25.85	24.70	24.68	24.68	22.78	22.75	22.73
		1	24	25.30	25.29	25.30	25.90	25.90	25.90	24.68	24.70	24.68	22.80	22.78	22.80
		1	49	25.28	25.27	25.27	25.85	25.89	25.88	24.66	24.68	24.70	22.78	22.80	22.78
		25	0	24.63	24.63	24.65	25.22	25.23	25.18	24.02	24.08	23.96	22.17	22.10	22.07
		25	12	24.65	24.66	24.67	25.30	25.26	25.28	24.05	24.10	24.08	22.18	22.15	22.18
	16QAM	25	24	24.64	24.67	24.66	25.25	25.24	25.24	24.03	24.10	24.09	22.17	22.13	22.17
		50	0	24.63	24.64	24.64	25.24	25.24	25.16	24.04	24.08	23.99	22.17	22.13	22.10
		1	0	24.72	24.78	24.85	25.40	25.36	25.42	24.33	24.35	24.38	22.54	22.45	22.41
		1	24	24.79	24.74	24.78	25.35	25.38	25.39	24.34	24.27	24.39	22.49	22.44	22.38
		1	49	24.79	24.74	24.81	25.35	25.42	25.38	24.33	24.31	24.40	22.46	22.45	22.47
	64QAM	25	0	23.62	23.65	23.69	24.25	24.27	24.17	23.06	23.11	23.02	21.22	21.13	21.10
		25	12	23.66	23.69	23.69	24.28	24.31	24.28	23.09	23.14	23.14	21.23	21.15	21.21
		25	24	23.67	23.66	23.68	24.30	24.29	24.26	23.07	23.13	23.12	21.21	21.14	21.21
		50	0	23.64	23.62	23.66	24.26	24.26	24.16	23.03	23.10	22.99	21.18	21.12	21.08
		1	0	23.67	23.66	23.82	24.32	24.37	24.37	22.90	22.90	22.72	20.37	20.14	20.23
	256QAM	1	24	23.91	23.93	23.79	24.40	24.48	24.39	22.96	22.91	22.77	20.34	20.22	20.22
		1	49	23.91	23.71	23.73	24.40	24.38	24.29	22.91	22.89	22.65	20.45	20.18	20.18
		25	0	22.66	22.64	22.71	23.28	23.28	23.19	21.70	21.66	21.52	19.17	19.03	19.00
		25	12	22.68	22.68	22.70	23.32	23.34	23.30	21.75	21.71	21.54	19.22	19.07	19.01
		25	24	22.68	22.66	22.68	23.29	23.28	23.24	21.72	21.69	21.53	19.18	19.04	18.98

OUTPUT POWER FOR 5G NR n48 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 7			ANT 8			ANT 9			ANT 4		
				638000	641333	645333	638000	641333	645333	638000	641333	645333	638000	641333	645333
40.0	BPSK	1	0	24.80	24.83	24.64	24.99	25.40	25.02	22.46	24.03	23.92	22.55	22.45	22.56
		1	1	25.23	25.14	25.09	25.59	25.90	25.43	23.09	24.58	24.24	22.77	22.80	22.76
		1	104	25.27	25.30	25.15	25.90	25.49	25.90	23.96	24.17	24.63	22.76	22.42	22.80
		1	105	24.73	24.68	24.69	25.34	24.90	25.35	23.35	23.70	23.97	22.56	22.32	22.58
		50	25	25.12	25.15	25.01	25.62	25.47	25.57	23.59	24.18	24.28	22.69	22.41	22.57
		100	0	20.00	24.73	20.00	20.00	24.97	20.00	20.00	23.74	20.00	19.70	22.19	19.70
		1	0	24.35	24.25	24.19	24.32	24.91	24.42	22.89	23.54	23.40	22.11	21.90	21.94
		1	1	25.30	25.21	25.07	25.36	25.83	25.43	24.09	24.70	24.41	22.80	22.35	22.66
		1	104	25.28	25.17	25.30	25.90	25.34	25.76	24.70	24.21	24.70	22.77	21.95	22.69
		1	105	24.41	24.29	24.29	24.70	24.46	24.82	23.65	23.24	23.57	22.08	21.30	22.02
		50	25	25.24	25.09	25.06	25.63	25.47	25.51	24.51	24.25	24.37	22.70	22.03	22.59
		100	0	20.00	24.10	20.00	20.00	24.46	20.00	20.00	23.29	20.00	19.70	21.36	19.70
	1	0	23.11	23.20	23.76	23.56	23.86	23.26	22.00	22.37	22.60	21.22	20.37	21.10	
	1	1	23.86	24.51	24.08	24.57	24.80	24.46	22.68	23.74	23.32	22.27	21.42	22.10	
	1	104	23.86	24.45	24.49	25.05	24.47	24.75	23.28	22.92	23.80	22.23	21.23	22.17	
	1	105	23.14	23.57	23.49	24.11	23.30	23.85	22.52	22.05	22.68	21.18	20.30	21.14	
	50	25	24.15	24.14	24.27	24.62	24.35	24.39	23.13	23.27	23.33	21.98	21.32	21.83	
	100	0	20.00	23.03	20.00	20.00	23.45	20.00	20.00	22.29	20.00	19.70	20.36	19.70	
	1	0	22.75	22.48	22.53	23.15	23.34	22.99	21.41	22.07	22.14	20.64	20.05	20.47	
	1	1	22.82	22.47	22.77	23.03	23.06	23.01	21.48	22.05	22.08	20.59	19.57	20.41	
	1	104	22.96	22.68	23.12	23.33	23.10	23.17	21.97	21.54	22.38	20.58	19.37	20.47	
	1	105	22.88	23.34	22.81	23.60	23.15	23.33	21.87	21.65	22.06	20.58	19.22	20.46	
	50	25	22.65	22.61	22.57	23.10	22.94	22.94	21.83	21.80	21.51	20.48	19.81	20.44	
	100	0	20.00	22.62	20.00	20.00	22.91	20.00	20.00	21.81	20.00	19.70	19.82	19.70	
	1	0	20.85	20.98	20.56	21.18	21.26	20.59	19.73	20.33	19.86	18.77	18.15	18.60	
	1	1	20.71	20.48	20.80	21.11	21.22	20.42	19.84	20.38	20.08	18.76	18.18	18.48	
	1	104	20.92	20.48	20.83	21.57	21.11	21.14	20.24	19.89	20.06	18.80	17.89	18.50	
	1	105	21.08	20.31	20.87	21.59	20.90	21.34	20.39	19.84	20.10	18.80	17.71	18.49	
	50	25	20.67	20.64	20.63	21.16	20.83	21.08	19.79	19.70	19.48	18.40	17.79	18.40	
	100	0	20.00	20.61	20.00	20.00	20.89	20.00	19.85	19.69	19.54	19.70	17.79	19.70	

8.12. LTE BAND 66 AND 5G NR n66

LTE Band 66

Test Engineer ID:	28567	Test Date:	2/2/2023
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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
1.4	QPSK	1	0	25.67	25.55	25.53	23.29	23.30	23.29	25.24	25.47	25.41	22.88	22.79	22.83
		1	2	25.68	25.61	25.56	23.32	23.31	23.35	25.26	25.49	25.43	22.90	22.81	22.85
		1	5	25.70	25.58	25.54	23.28	23.35	23.35	25.24	25.48	25.40	22.88	22.78	22.83
		3	0	25.67	25.58	25.56	23.31	23.40	23.34	25.25	25.50	25.40	22.87	22.82	22.84
		3	1	25.67	25.61	25.56	23.35	23.39	23.36	25.28	25.50	25.45	22.87	22.81	22.81
		3	2	25.69	25.60	25.59	23.35	23.37	23.33	25.27	25.50	25.43	22.86	22.80	22.82
	16QAM	6	0	24.97	24.89	24.87	22.56	22.65	22.63	24.38	24.60	24.52	21.83	21.76	21.77
		1	0	25.06	24.99	25.00	22.93	22.80	22.81	24.53	24.77	24.60	22.01	21.93	21.93
		1	2	25.12	25.07	25.01	22.98	22.88	22.81	24.57	24.77	24.66	22.06	21.94	21.95
		1	5	25.08	25.05	24.98	22.93	22.85	22.85	24.54	24.70	24.61	22.00	22.06	21.93
		3	0	25.07	24.96	24.94	22.79	22.82	22.83	24.42	24.72	24.60	21.93	21.87	21.94
		3	1	25.08	24.99	24.95	22.78	22.83	22.89	24.46	24.72	24.60	21.98	21.87	21.93
	64QAM	3	2	25.05	25.01	24.95	22.78	22.85	22.84	24.46	24.70	24.60	21.97	21.87	21.92
		6	0	23.95	23.89	23.81	21.58	21.73	21.73	23.31	23.56	23.58	20.77	20.72	20.90
		1	0	24.09	24.02	24.13	21.88	21.92	21.96	23.60	23.69	23.77	21.12	20.98	20.99
		1	2	24.25	24.05	24.12	21.89	22.00	22.01	23.59	23.76	23.78	21.07	20.97	21.02
		1	5	24.16	23.97	24.13	21.88	21.99	21.93	23.62	23.66	23.77	21.10	20.97	21.01
		3	0	24.08	23.98	23.98	21.69	21.81	21.77	23.47	23.74	23.66	20.94	20.92	20.96
	256QAM	3	1	24.10	23.99	23.99	21.65	21.77	21.78	23.49	23.73	23.68	20.96	20.90	20.95
		3	2	24.08	23.99	24.00	21.69	21.76	21.74	23.51	23.73	23.68	20.94	20.91	20.98
		6	0	22.96	22.87	22.91	20.61	20.65	20.74	22.40	22.68	22.59	19.92	19.79	19.77
		1	0	20.96	21.00	20.92	18.73	18.70	18.69	20.38	20.74	20.76	17.95	17.84	18.02
		1	2	21.05	21.03	21.04	18.68	18.79	18.71	20.40	20.80	20.82	17.97	17.91	18.08
		1	5	20.95	20.97	20.93	18.66	18.72	18.69	20.47	20.71	20.76	17.95	17.90	17.92

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
3.0	QPSK	1	0	25.57	25.49	25.49	23.31	23.25	23.25	25.16	25.38	25.34	22.66	22.31	20.83
		1	7	25.70	25.66	25.59	23.40	23.39	23.34	25.34	25.50	25.42	22.90	22.52	20.91
		1	14	25.57	25.53	25.49	23.32	23.29	23.28	25.21	25.41	25.31	22.90	22.31	20.87
		8	0	24.93	24.85	24.84	22.66	22.60	22.56	24.36	24.46	24.48	21.49	21.70	19.73
		8	4	24.96	24.92	24.87	22.71	22.62	22.61	24.36	24.56	24.51	21.61	21.75	19.74
		8	7	24.90	24.87	24.81	22.70	22.59	22.58	24.35	24.53	24.49	21.57	21.70	19.71
	16QAM	15	0	24.93	24.85	24.83	22.64	22.59	22.58	24.37	24.54	24.47	21.59	21.69	19.62
		1	0	25.09	24.95	24.98	22.79	22.61	22.69	24.48	24.57	24.58	21.87	22.03	17.69
		1	7	25.20	25.07	25.04	22.88	22.52	22.78	24.59	24.76	24.66	22.01	22.10	17.84
		1	14	25.10	24.99	24.95	22.83	22.70	22.68	24.50	24.66	24.56	21.91	22.02	17.73
		8	0	23.98	23.87	23.89	21.59	21.56	21.56	23.40	23.58	23.48	20.52	20.73	17.63
		8	4	24.00	23.89	23.93	21.61	21.60	21.59	23.43	23.70	23.52	20.64	20.77	17.64
	64QAM	8	7	23.98	23.91	23.90	21.60	21.55	21.56	23.41	23.68	23.50	20.63	20.72	17.61
		15	0	23.94	23.86	23.84	21.63	21.61	21.56	23.38	23.54	23.50	20.56	20.68	17.61
		1	0	24.00	23.90	23.99	21.68	21.68	21.70	23.40	23.71	23.60	20.56	20.82	21.00
		1	7	24.08	23.98	24.05	21.81	21.75	21.79	23.46	23.69	23.61	20.72	20.93	21.08
		1	14	23.98	23.94	23.98	21.73	21.77	21.73	23.40	23.63	23.52	20.59	20.82	20.97
		8	0	22.96	22.87	22.87	20.69	20.65	20.59	22.38	22.52	22.52	19.95	19.60	19.75
	256QAM	8	4	22.98	22.92	22.90	20.73	20.69	20.62	22.43	22.64	22.57	20.00	19.71	19.78
		8	7	22.97	22.87	22.87	20.69	20.68	20.59	22.39	22.59	22.55	19.94	19.70	19.78
		15	0	22.96	22.89	22.85	20.67	20.64	20.57	22.38	22.60	22.53	19.97	19.57	19.69
		1	0	20.95	20.85	20.93	18.66	18.61	18.64	20.36	20.65	20.61	20.27	17.53	17.76
		1	7	21.07	21.01	21.00	18.76	18.72	18.74	20.46	20.83	20.64	20.45	17.68	17.82
		1	14	21.04	20.94	20.92	18.66	18.67	18.50	20.46	20.70	20.63	20.32	17.59	17.78

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	25.67	25.57	25.52	23.37	23.25	23.19	25.26	25.41	25.37	22.66	22.26	22.31
		1	12	25.70	25.62	25.57	23.40	23.34	23.25	25.07	25.50	25.40	22.90	22.42	22.52
		1	24	25.63	25.57	25.55	23.34	23.33	23.23	25.10	25.43	25.35	22.90	22.29	22.31
		12	0	24.95	24.86	24.81	22.64	22.67	22.54	24.33	24.52	24.48	21.49	21.65	21.70
		12	6	25.02	24.97	24.84	22.75	22.64	22.51	24.45	24.63	24.48	21.61	21.70	21.75
		12	11	25.00	24.94	24.90	22.69	22.63	22.58	24.34	24.60	24.53	21.57	21.64	21.70
		25	0	25.01	24.94	24.82	22.72	22.62	22.49	24.29	24.59	24.46	21.59	21.67	21.69
	16QAM	1	0	25.15	25.06	24.99	22.87	22.73	22.72	24.52	24.66	24.63	21.87	21.97	22.03
		1	12	25.13	25.08	25.01	22.87	22.58	22.78	24.27	24.68	24.59	22.01	22.15	22.10
		1	24	25.07	25.04	25.01	22.86	22.76	22.71	24.30	24.73	24.57	21.91	22.02	22.02
		12	0	23.97	23.86	23.82	21.68	21.64	21.47	23.35	23.52	23.48	20.52	20.67	20.73
		12	6	24.04	23.98	23.85	21.75	21.63	21.50	23.45	23.63	23.51	20.64	20.73	20.77
		12	11	24.02	23.94	23.91	21.70	21.63	21.54	23.45	23.60	23.56	20.63	20.69	20.72
		25	0	24.00	23.94	23.81	21.68	21.60	21.43	23.44	23.59	23.47	20.56	20.64	20.68
	64QAM	1	0	24.14	24.06	24.11	21.89	21.76	21.78	23.55	23.80	23.77	20.82	20.83	21.00
		1	12	24.19	24.11	24.15	21.87	21.80	21.83	23.54	23.77	23.82	20.93	20.91	21.08
		1	24	24.12	24.06	24.13	21.86	21.82	21.76	23.54	23.76	23.67	20.82	20.87	20.97
		12	0	22.94	22.89	22.87	20.64	20.64	20.48	22.34	22.53	22.50	19.60	19.73	19.75
		12	6	23.03	22.96	22.88	20.70	20.68	20.55	22.44	22.67	22.51	19.71	19.74	19.78
		12	11	23.01	22.95	22.94	20.69	20.63	20.60	22.46	22.62	22.56	19.70	19.71	19.78
		25	0	23.01	22.95	22.85	20.68	20.65	20.55	22.44	22.64	22.49	19.57	19.62	19.69
	256QAM	1	0	21.06	20.94	20.85	18.79	18.65	18.52	20.43	20.61	20.70	17.53	17.69	17.76
		1	12	21.19	21.07	21.04	18.87	18.73	18.68	20.59	20.74	20.80	17.68	17.84	17.82
		1	24	21.10	21.00	20.93	18.84	18.66	18.63	20.51	20.70	20.70	17.59	17.73	17.78
		12	0	20.92	20.86	20.84	18.58	18.65	18.54	20.35	20.55	20.49	17.52	17.63	17.69
12		6	21.01	20.96	20.87	18.69	18.64	18.52	20.45	20.65	20.50	17.63	17.64	17.71	
12		11	20.97	20.91	20.91	18.68	18.61	18.56	20.42	20.64	20.56	17.55	17.61	17.70	
25		0	20.98	20.92	20.86	18.67	18.60	18.50	20.42	20.62	20.49	17.51	17.61	17.66	

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	25.70	25.54	25.50	23.38	23.28	23.19	25.34	25.50	25.47	22.77	22.83	22.85
		1	24	25.69	25.60	25.55	23.36	23.29	23.27	25.16	25.49	25.48	22.82	22.90	22.87
		1	49	25.68	25.62	25.49	23.40	23.31	23.19	25.43	25.40	25.36	22.79	22.85	22.81
		25	0	24.97	24.89	24.85	22.64	22.61	22.53	24.44	24.59	24.57	22.06	22.11	22.15
		25	12	25.04	24.94	24.93	22.69	22.66	22.60	24.51	24.67	24.56	22.16	22.21	22.16
		25	24	25.01	24.92	24.90	22.68	22.64	22.59	24.50	24.66	24.61	22.14	22.18	22.21
		50	0	25.03	24.92	24.90	22.70	22.64	22.51	24.43	24.64	24.54	22.12	22.21	22.13
	16QAM	1	0	25.23	24.94	24.92	22.82	22.59	22.69	24.63	24.62	24.66	22.46	22.58	22.54
		1	24	25.22	25.00	24.99	22.79	22.42	22.68	24.43	24.69	24.70	22.37	22.56	22.46
		1	49	25.20	24.99	24.85	22.84	22.70	22.64	24.75	24.56	24.60	22.49	22.58	22.42
		25	0	23.99	23.88	23.87	21.66	21.61	21.56	23.45	23.60	23.56	21.07	21.16	21.17
		25	12	24.03	23.95	23.92	21.74	21.68	21.61	23.54	23.68	23.57	21.18	21.23	21.19
		25	24	24.02	23.95	23.92	21.70	21.65	21.58	23.53	23.66	23.63	21.15	21.20	21.25
		50	0	24.03	23.94	23.92	21.72	21.64	21.51	23.52	23.66	23.58	21.15	21.18	21.15
	64QAM	1	0	24.26	24.20	24.01	21.97	21.87	21.72	23.72	23.80	23.85	21.38	21.42	21.37
		1	24	24.22	24.18	23.93	21.99	21.92	21.79	23.75	23.82	23.84	21.42	21.44	21.40
		1	49	24.22	24.24	24.01	22.05	21.95	21.73	23.80	23.76	23.76	21.39	21.42	21.35
		25	0	22.98	22.89	22.85	20.69	20.62	20.55	22.43	22.61	22.62	20.07	20.12	20.15
		25	12	23.02	22.95	22.93	20.74	20.66	20.61	22.53	22.69	22.58	20.17	20.20	20.16
		25	24	23.00	22.95	22.91	20.73	20.65	20.61	22.49	22.67	22.64	20.14	20.17	20.19
		50	0	23.02	22.98	22.90	20.74	20.69	20.54	22.52	22.68	22.58	20.14	20.19	20.14
	256QAM	1	0	21.03	21.00	20.83	18.83	18.69	18.65	20.48	20.69	20.73	18.11	18.20	18.25
		1	24	21.06	21.12	20.88	18.87	18.78	18.65	20.60	20.83	20.77	18.20	18.32	18.34
		1	49	21.09	21.12	20.88	18.98	18.72	18.69	20.58	20.79	20.80	18.17	18.23	18.24
		25	0	20.96	20.89	20.84	18.67	18.59	18.53	20.42	20.60	20.60	18.06	18.09	18.10
25		12	21.00	20.96	20.90	18.72	18.66	18.60	20.51	20.69	20.58	18.14	18.20	18.13	
25		24	20.99	20.95	20.88	18.71	18.62	18.58	20.51	20.67	20.63	18.11	18.16	18.17	
50		0	21.00	20.93	20.89	18.74	18.65	18.51	20.52	20.69	20.58	18.22	18.16	18.13	

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
15.0	QPSK	1	0	25.70	25.54	25.50	23.38	23.28	23.19	25.34	25.50	25.47	22.82	22.80	22.90
		1	37	25.69	25.60	25.55	23.36	23.29	23.27	25.16	25.49	25.48	22.82	22.85	22.87
		1	74	25.68	25.62	25.49	23.40	23.31	23.19	25.43	25.40	25.36	22.87	22.87	22.82
		36	0	24.97	24.89	24.85	22.64	22.61	22.53	24.44	24.59	24.57	22.10	22.15	22.19
		36	16	25.04	24.94	24.93	22.69	22.66	22.60	24.51	24.67	24.56	22.16	22.23	22.16
		36	35	25.01	24.92	24.90	22.68	22.64	22.59	24.50	24.66	24.61	22.16	22.21	22.23
		75	0	25.03	24.92	24.90	22.70	22.64	22.51	24.43	24.64	24.54	22.16	22.20	22.15
	16QAM	1	0	25.23	24.94	24.92	22.82	22.59	22.69	24.63	24.62	24.66	22.46	22.47	22.54
		1	37	25.22	25.00	24.99	22.79	22.42	22.68	24.43	24.69	24.70	22.44	22.50	22.57
		1	74	25.20	24.99	24.85	22.84	22.70	22.64	24.75	24.56	24.60	22.43	22.52	22.37
		36	0	23.99	23.88	23.87	21.66	21.61	21.56	23.45	23.60	23.56	21.13	21.18	21.22
		36	16	24.03	23.95	23.92	21.74	21.68	21.61	23.54	23.68	23.57	21.18	21.22	21.20
		36	35	24.02	23.95	23.92	21.70	21.65	21.58	23.53	23.66	23.63	21.18	21.21	21.25
		75	0	24.03	23.94	23.92	21.72	21.64	21.51	23.52	23.66	23.58	21.19	21.22	21.18
	64QAM	1	0	24.26	24.20	24.01	21.97	21.87	21.72	23.72	23.80	23.85	21.45	21.36	21.33
		1	37	24.22	24.18	23.93	21.99	21.92	21.79	23.75	23.82	23.84	21.44	21.37	21.36
		1	74	24.22	24.24	24.01	22.05	21.95	21.73	23.80	23.76	23.76	21.47	21.44	21.23
		36	0	22.98	22.89	22.85	20.69	20.62	20.55	22.43	22.61	22.62	20.10	20.17	20.17
		36	16	23.02	22.95	22.93	20.74	20.66	20.61	22.53	22.69	22.58	20.17	20.21	20.17
		36	35	23.00	22.95	22.91	20.73	20.65	20.61	22.49	22.67	22.64	20.19	20.19	20.23
		75	0	23.02	22.98	22.90	20.74	20.69	20.54	22.52	22.68	22.58	20.16	20.19	20.17
	256QAM	1	0	21.03	21.00	20.83	18.83	18.69	18.65	20.48	20.69	20.73	18.10	18.24	18.23
		1	37	21.06	21.12	20.88	18.87	18.78	18.65	20.60	20.83	20.77	18.18	18.27	18.28
		1	74	21.09	21.12	20.88	18.98	18.72	18.69	20.58	20.79	20.80	18.22	18.28	18.26
36		0	20.96	20.89	20.84	18.67	18.59	18.53	20.42	20.60	20.60	18.09	18.14	18.16	
36		16	21.00	20.96	20.90	18.72	18.66	18.60	20.51	20.69	20.58	18.16	18.19	18.14	
36		35	20.99	20.95	20.88	18.71	18.62	18.58	20.51	20.67	20.63	18.15	18.19	18.20	
75		0	21.00	20.93	20.89	18.74	18.65	18.51	20.52	20.69	20.58	18.16	18.19	18.13	

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
20.0	QPSK	1	0	25.70	25.61	25.54	23.39	23.34	23.23	25.31	25.45	25.39	22.85	22.89	22.90
		1	49	25.60	25.55	25.50	23.31	23.33	23.25	25.12	25.45	25.39	22.83	22.87	22.86
		1	99	25.61	25.64	25.52	23.40	23.36	23.21	25.41	25.50	25.38	22.86	22.86	22.81
		50	0	24.93	24.86	24.81	22.69	22.64	22.57	24.41	24.57	24.53	22.12	22.17	22.19
		50	24	24.99	24.94	24.83	22.75	22.70	22.64	24.50	24.66	24.59	22.21	22.25	22.25
		50	49	24.95	24.91	24.90	22.73	22.68	22.61	24.52	24.62	24.57	22.18	22.20	22.24
		100	0	25.00	24.94	24.80	22.74	22.68	22.61	24.43	24.63	24.58	22.18	22.23	22.16
	16QAM	1	0	25.14	25.05	24.92	22.90	22.77	22.74	24.61	24.73	24.67	22.47	22.47	22.54
		1	49	25.24	25.32	25.11	22.92	22.55	22.83	24.47	24.90	24.78	22.79	22.62	22.78
		1	99	25.15	25.17	24.99	22.78	22.87	22.72	24.71	24.69	24.65	22.56	22.44	22.42
		50	0	23.91	23.87	23.83	21.66	21.63	21.55	23.40	23.56	23.52	21.13	21.18	21.20
		50	24	23.98	23.94	23.81	21.73	21.71	21.64	23.51	23.64	23.60	21.21	21.25	21.26
		50	49	23.95	23.91	23.89	21.72	21.69	21.60	23.50	23.61	23.56	21.20	21.21	21.23
		100	0	23.98	23.94	23.83	21.73	21.70	21.63	23.52	23.63	23.60	21.19	21.22	21.16
	64QAM	1	0	24.15	24.09	24.01	21.95	21.85	21.70	23.57	23.79	23.71	21.42	21.55	21.47
		1	49	24.22	24.15	24.07	21.88	21.88	21.76	23.60	23.82	23.82	21.41	21.63	21.57
		1	99	24.10	24.07	23.98	21.86	21.85	21.75	23.66	23.78	23.64	21.35	21.51	21.31
		50	0	22.92	22.86	22.81	20.71	20.63	20.58	22.40	22.57	22.52	20.13	20.16	20.18
		50	24	23.00	22.95	22.80	20.77	20.71	20.64	22.50	22.67	22.61	20.21	20.22	20.25
		50	49	22.95	22.93	22.86	20.75	20.68	20.60	22.49	22.63	22.58	20.17	20.19	20.22
		100	0	22.97	22.94	22.80	20.74	20.70	20.61	22.49	22.65	22.59	20.20	20.22	20.14
	256QAM	1	0	21.05	20.95	20.94	18.84	18.77	18.71	20.48	20.67	20.68	18.26	18.30	18.22
		1	49	21.01	20.99	20.92	18.81	18.74	18.67	20.56	20.77	20.75	18.42	18.39	18.18
		1	99	21.01	21.04	20.96	18.84	18.80	18.72	20.66	20.74	20.71	18.32	18.29	18.17
50		0	20.91	20.84	20.78	18.64	18.60	18.52	20.41	20.57	20.52	18.10	18.15	18.14	
50		24	20.97	20.93	20.79	18.73	18.68	18.62	20.51	20.66	20.58	18.19	18.20	18.23	
50		49	20.93	20.89	20.84	18.70	18.65	18.59	20.48	20.61	20.56	18.15	18.17	18.19	
100		0	20.96	20.91	20.77	18.71	18.67	18.61	20.49	20.63	20.61	18.17	18.19	18.11	

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		25.43			23.16			25.10			22.71	
		1	1		25.70			23.40			25.32			22.87	
		1	77		25.59			23.37			25.25			22.80	
		1	78		25.47			23.14			25.07			22.64	
		36	18		25.39			23.17			25.25			22.70	
		75	0		25.29			23.02			25.10			22.57	
	QPSK	1	0		24.43			22.65			24.19			22.13	
		1	1		25.52			23.34			25.17			22.90	
		1	77		25.59			23.31			25.50			22.75	
		1	78		24.86			22.61			24.56			22.02	
		36	18		25.51			23.20			25.33			22.80	
		75	0		24.80			22.54			24.53			22.15	
	16QAM	1	0		23.55			21.33			23.13			21.32	
		1	1		24.56			22.40			24.27			22.38	
		1	77		24.96			22.35			24.63			22.11	
		1	78		23.95			21.33			23.50			20.97	
		36	18		24.74			22.59			24.55			22.17	
		75	0		23.80			21.56			23.63			21.17	
	64QAM	1	0		23.15			21.08			22.76			20.69	
		1	1		23.04			21.08			22.89			20.72	
		1	77		23.44			21.04			23.10			20.67	
		1	78		23.43			21.04			23.12			20.66	
		36	18		23.35			21.10			23.06			20.67	
		75	0		23.36			21.10			23.07			20.70	
	256QAM	1	0		21.34			19.25			21.23			18.80	
		1	1		21.45			19.28			21.14			18.88	
		1	77		21.23			19.21			21.08			18.66	
		1	78		21.21			19.20			21.08			18.66	
		36	18		21.27			19.02			21.13			18.66	
		75	0		21.30			19.04			21.07			18.62	

8.14. LTE BAND 71 AND 5G NR n71

LTE Band 71

Test Engineer ID:	28567	Test Date:	2/2/2023
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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			ANT 3		
				133147	133297	133447	133147	133297	133447	133147	133297	133447
5.0	QPSK	1	0	25.64	25.59	25.65	24.61	24.57	24.58	24.90	25.18	25.37
		1	12	25.70	25.70	25.70	24.70	24.70	24.70	25.01	25.31	25.40
		1	24	25.60	25.60	25.60	24.54	24.54	24.50	24.89	25.18	25.28
		12	0	24.86	24.85	24.95	23.56	23.56	23.63	23.95	24.20	24.43
		12	6	24.94	24.97	24.97	23.64	23.66	23.62	24.04	24.30	24.41
		12	11	24.92	24.92	24.94	23.59	23.58	23.58	24.02	24.27	24.37
		25	0	24.91	24.92	24.95	23.62	23.60	23.61	24.01	24.26	24.38
		1	0	25.05	25.03	25.06	24.00	23.90	24.01	24.36	24.49	24.72
		1	12	25.11	25.11	25.13	24.08	24.05	24.01	24.34	24.66	24.83
	1	24	25.03	25.05	25.06	23.99	23.86	23.89	24.33	24.53	24.64	
	12	0	23.87	23.84	23.96	22.66	22.68	22.61	22.97	23.19	23.39	
	12	6	23.96	23.95	23.98	22.73	22.77	22.62	23.06	23.30	23.39	
	12	11	23.93	23.89	23.94	22.71	22.73	22.59	23.04	23.26	23.31	
	25	0	23.91	23.95	23.96	22.64	22.62	22.60	23.03	23.32	23.38	
	1	0	24.03	23.98	24.06	22.90	22.88	22.89	23.04	23.44	23.48	
	1	12	24.06	24.04	24.04	22.95	23.00	22.98	23.12	23.50	23.53	
	1	24	23.96	24.01	23.95	22.85	22.86	22.85	23.04	23.40	23.47	
	12	0	22.86	22.87	22.96	21.55	21.56	21.74	21.98	22.24	22.47	
	12	6	22.97	22.99	23.00	21.65	21.65	21.73	22.07	22.31	22.49	
	12	11	22.92	22.93	22.96	21.59	21.61	21.69	22.04	22.31	22.43	
	25	0	22.91	22.93	22.95	21.63	21.64	21.65	22.05	22.29	22.42	
	1	0	20.91	20.92	21.10	19.63	19.74	19.76	20.12	20.28	20.57	
	1	12	21.03	20.99	21.10	19.79	19.83	19.88	20.27	20.40	20.63	
	1	24	20.93	20.98	21.02	19.68	19.71	19.66	20.08	20.35	20.45	
	12	0	20.82	20.84	20.96	19.61	19.58	19.66	20.00	20.21	20.42	
	12	6	20.93	20.95	20.97	19.70	19.67	19.66	20.07	20.34	20.46	
	12	11	20.90	20.90	20.93	19.64	19.64	19.63	20.08	20.28	20.42	
	25	0	20.89	20.91	20.93	19.67	19.65	19.62	20.05	20.27	20.41	

OUTPUT POWER FOR LTE BAND 71 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				133172	133322	133422	133172	133322	133422	133172	133322	133422
10.0	QPSK	1	0	25.70	25.70	25.70	24.70	24.70	24.70	24.97	25.16	25.29
		1	24	25.65	25.69	25.67	24.70	24.65	24.69	25.08	25.25	25.40
		1	49	25.61	25.64	25.58	24.56	24.56	24.56	25.06	25.19	25.23
		25	0	24.94	24.95	24.94	23.62	23.60	23.61	24.04	24.20	24.33
		25	12	25.02	25.03	24.94	23.69	23.62	23.61	24.11	24.20	24.35
		25	24	24.94	24.97	24.96	23.63	23.64	23.63	24.10	24.24	24.37
		50	0	24.99	25.00	24.92	23.68	23.57	23.61	24.10	24.28	24.31
		1	0	25.21	25.19	25.09	24.07	24.02	23.98	24.20	24.34	24.49
		1	24	25.14	25.14	25.09	23.95	23.96	23.94	24.29	24.46	24.49
	1	49	25.07	25.12	24.96	23.91	23.92	23.88	24.29	24.43	24.39	
	25	0	23.96	23.97	23.97	22.67	22.63	22.66	23.09	23.21	23.36	
	25	12	24.02	24.03	23.92	22.74	22.62	22.64	23.18	23.22	23.38	
	25	24	23.98	23.99	23.97	22.68	22.67	22.66	23.14	23.30	23.37	
	50	0	24.00	24.00	23.92	22.69	22.59	22.61	23.13	23.29	23.31	
	1	0	24.19	24.19	24.26	23.02	22.97	23.00	23.20	23.35	23.60	
	1	24	24.15	24.21	24.25	22.94	22.96	22.92	23.30	23.46	23.67	
	1	49	24.09	24.11	24.13	22.92	22.88	22.90	23.27	23.42	23.55	
	25	0	22.97	22.95	22.92	21.67	21.65	21.67	22.06	22.24	22.42	
	25	12	23.04	23.04	22.92	21.74	21.62	21.64	22.19	22.24	22.39	
	25	24	23.01	22.98	22.96	21.71	21.64	21.67	22.12	22.29	22.41	
	50	0	23.01	23.02	22.93	21.72	21.61	21.64	22.16	22.29	22.35	
	1	0	20.99	21.04	21.05	19.79	19.70	19.77	20.11	20.30	20.45	
	1	24	21.01	21.12	21.11	19.83	19.78	19.82	20.25	20.48	20.61	
	1	49	20.99	21.01	21.03	19.77	19.75	19.73	20.28	20.43	20.48	
	25	0	20.95	20.93	20.93	19.67	19.64	19.65	20.08	20.20	20.37	
	25	12	21.02	21.00	20.93	19.74	19.61	19.67	20.16	20.26	20.37	
	25	24	20.97	20.96	20.96	19.69	19.65	19.70	20.13	20.28	20.39	
	50	0	21.01	20.98	20.90	19.72	19.59	19.61	20.13	20.29	20.34	

OUTPUT POWER FOR LTE BAND 71 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				133197	133297	133397	133197	133297	133397	133197	133297	133397
15.0	QPSK	1	0	25.68	25.67	25.69	24.70	24.68	24.68	25.04	25.16	25.34
		1	37	25.70	25.70	25.70	24.64	24.70	24.70	25.09	25.21	25.40
		1	74	25.65	25.62	25.57	24.56	24.59	24.53	25.08	25.19	25.22
		36	0	25.02	25.02	25.00	23.71	23.67	23.71	24.10	24.29	24.46
		36	16	25.09	25.08	25.00	23.77	23.73	23.68	24.18	24.37	24.45
		36	35	25.01	25.02	25.02	23.71	23.69	23.69	24.17	24.34	24.46
	16QAM	75	0	25.08	25.05	25.00	23.77	23.70	23.69	24.21	24.40	24.49
		1	0	25.25	25.06	25.08	23.94	23.84	23.95	24.07	24.39	24.57
		1	37	25.20	25.09	25.15	24.01	23.94	23.95	24.17	24.55	24.64
		1	74	25.24	25.04	24.94	23.90	23.76	23.78	24.20	24.50	24.59
		36	0	24.03	24.03	24.03	22.75	22.71	22.73	23.12	23.30	23.47
		36	16	24.08	24.09	24.02	22.79	22.77	22.69	23.18	23.40	23.45
	64QAM	36	35	24.04	24.04	24.02	22.74	22.70	22.72	23.14	23.34	23.47
		75	0	24.10	24.07	24.02	22.80	22.76	22.71	23.23	23.39	23.50
		1	0	24.18	24.25	24.19	22.99	22.98	23.01	23.30	23.50	23.68
		1	37	24.15	24.21	24.24	23.04	23.02	22.98	23.38	23.62	23.68
		1	74	24.06	24.13	24.05	22.93	22.91	22.86	23.36	23.58	23.55
		36	0	23.08	22.99	22.99	21.75	21.71	21.72	22.12	22.29	22.47
	256QAM	36	16	23.13	23.06	22.99	21.80	21.78	21.69	22.22	22.39	22.47
		36	35	23.08	23.01	23.01	21.75	21.72	21.71	22.17	22.35	22.46
		75	0	23.14	23.07	23.02	21.82	21.76	21.71	22.22	22.40	22.49
		1	0	21.13	21.13	21.07	19.81	19.82	19.86	20.19	20.27	20.53
		1	37	21.16	21.10	21.11	19.87	19.88	19.88	20.28	20.47	20.50
		1	74	21.34	21.14	21.10	19.91	19.86	19.88	20.40	20.47	20.63
		36	0	21.09	21.01	21.03	19.79	19.73	19.77	20.18	20.36	20.49
		36	16	21.14	21.05	21.00	19.81	19.77	19.71	20.24	20.38	20.47
		36	35	21.10	21.02	21.03	19.78	19.73	19.74	20.23	20.39	20.52
		75	0	21.16	21.05	21.00	19.84	19.77	19.73	20.24	20.42	20.47

OUTPUT POWER FOR LTE BAND 71 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				133222	133322	133372	133222	133322	133372	133222	133322	133372
20.0	QPSK	1	0	25.70	25.70	25.69	24.70	24.70	24.66	25.01	25.24	25.31
		1	49	25.66	25.64	25.70	24.68	24.68	24.60	25.15	25.31	25.40
		1	99	25.64	25.58	25.56	24.57	24.54	24.44	25.18	25.32	25.29
		50	0	25.03	24.98	25.03	23.72	23.71	23.68	24.16	24.34	24.42
		50	24	25.08	25.03	25.00	23.74	23.74	23.71	24.29	24.45	24.53
		50	49	24.98	24.95	25.01	23.66	23.64	23.65	24.30	24.47	24.47
	16QAM	100	0	25.07	25.02	25.01	23.74	23.70	23.65	24.30	24.46	24.47
		1	0	25.09	25.10	25.28	23.95	24.03	24.03	24.29	24.42	24.55
		1	49	25.36	25.26	25.49	24.00	24.25	24.39	24.61	24.74	24.81
		1	99	25.09	25.08	25.02	23.77	23.90	23.92	24.42	24.60	24.49
		50	0	24.02	24.01	24.03	22.73	22.68	22.70	23.17	23.36	23.42
		50	24	24.07	24.03	24.00	22.75	22.72	22.73	23.32	23.47	23.57
	64QAM	50	49	24.01	23.97	24.01	22.66	22.63	22.66	23.33	23.50	23.47
		100	0	24.07	24.05	24.01	22.77	22.72	22.67	23.31	23.47	23.49
		1	0	24.23	24.28	24.21	22.90	23.00	22.86	23.25	23.40	23.54
		1	49	24.29	24.19	24.38	22.87	23.10	23.03	23.41	23.67	23.64
		1	99	24.10	24.21	24.06	22.74	22.85	22.66	23.47	23.58	23.53
		50	0	23.05	23.02	23.06	21.70	21.69	21.67	22.17	22.35	22.45
	256QAM	50	24	23.09	23.07	23.01	21.72	21.72	21.71	22.31	22.48	22.57
		50	49	23.04	22.97	23.02	21.62	21.64	21.64	22.31	22.48	22.49
		100	0	23.11	23.05	23.03	21.73	21.71	21.66	22.31	22.47	22.50
		1	0	21.14	21.11	21.20	19.91	19.86	19.77	20.25	20.44	20.52
		1	49	21.22	21.09	21.13	19.83	19.82	19.76	20.24	20.60	20.56
		1	99	21.21	21.17	21.08	19.84	19.82	19.63	20.59	20.65	20.68
		50	0	21.05	21.02	21.06	19.73	19.71	19.69	20.21	20.37	20.46
		50	24	21.11	21.07	21.03	19.74	19.72	19.74	20.33	20.48	20.57
		50	49	21.06	21.01	21.03	19.70	19.67	19.67	20.38	20.51	20.54
		100	0	21.10	21.07	21.04	19.75	19.74	19.65	20.35	20.48	20.51

5G NR n71

Test Engineer ID:	28567	Test Date:	1/30/2023
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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			ANT 3		
				133100	136100	139100	133100	136100	139100	133100	136100	139100
5.0	BPSK	1	0	25.33	25.47	25.44	24.43	24.34	24.39	25.21	25.12	25.14
		1	1	25.58	25.57	25.68	24.63	24.53	24.59	25.35	25.28	25.31
		1	23	25.58	25.57	25.64	24.57	24.53	24.56	25.29	25.35	25.37
		1	24	25.37	25.37	25.38	24.38	24.33	24.31	25.08	25.10	25.19
		12	6	25.59	25.68	25.70	24.55	24.61	24.59	25.33	25.37	25.39
		25	0	25.29	25.37	25.47	24.35	24.36	24.32	25.09	25.15	25.14
	QPSK	1	0	24.67	24.91	24.93	24.02	23.82	23.94	24.06	24.73	24.59
		1	1	25.70	25.63	25.65	24.70	24.52	24.70	25.19	25.29	25.35
		1	23	25.57	25.65	24.33	24.61	24.55	24.56	25.40	25.30	25.16
		1	24	24.76	24.79	23.34	23.97	23.77	23.82	24.65	24.62	24.19
		12	6	25.64	25.70	25.57	24.56	24.70	24.68	25.38	25.40	25.40
		25	0	24.87	24.93	24.59	23.89	23.95	23.90	24.57	24.66	24.70
	16QAM	1	0	23.90	24.20	23.60	22.68	22.85	22.89	23.02	24.00	23.63
		1	1	24.81	24.99	24.70	23.74	23.92	23.91	24.13	24.91	24.66
		1	23	25.00	25.13	23.42	23.69	23.85	23.81	24.51	24.99	24.68
		1	24	23.78	24.06	22.40	22.59	22.83	22.69	23.46	23.99	23.67
		12	6	24.82	24.82	24.65	23.88	24.04	23.93	24.60	24.63	24.71
		25	0	23.71	23.89	23.57	22.91	22.90	22.88	23.60	23.61	23.60
	64QAM	1	0	23.26	23.14	23.43	22.35	22.43	22.34	22.46	23.06	22.83
		1	1	23.32	23.09	23.35	22.43	22.36	22.34	22.55	22.97	22.84
		1	23	23.30	23.10	22.23	22.23	22.40	22.35	22.91	22.99	22.71
		1	24	23.26	23.08	22.06	22.24	22.41	22.28	22.82	22.95	22.50
		12	6	23.42	23.47	23.29	22.38	22.43	22.40	22.93	23.17	23.10
		25	0	23.30	23.36	23.11	22.29	22.27	22.24	23.09	23.14	23.14
	256QAM	1	0	21.36	21.17	21.27	19.98	20.04	20.23	20.70	20.75	21.04
		1	1	21.45	21.07	21.20	20.02	19.83	20.25	20.67	20.66	21.04
		1	23	21.17	21.10	20.77	19.93	19.94	20.11	20.62	20.69	20.94
		1	24	21.30	21.19	20.58	19.87	19.92	20.18	20.57	20.58	20.85
		12	6	21.32	21.44	21.45	20.37	20.33	20.44	20.90	20.90	21.03
		25	0	21.33	21.35	21.43	20.25	20.32	20.26	20.95	20.99	21.05

OUTPUT POWER FOR 5G NR n71 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				133600	136600	138600	133600	136600	138600	133600	136600	138600
10.0	BPSK	1	0	25.41	25.56	25.41	24.42	24.47	24.49	25.17	25.13	25.23
		1	1	25.60	25.68	25.63	24.62	24.56	24.70	25.40	25.26	25.40
		1	50	25.49	25.59	25.45	24.41	24.62	24.61	25.20	25.24	25.32
		1	51	25.28	25.42	25.19	24.23	24.38	24.36	24.99	25.02	25.09
		25	12	25.52	25.58	25.44	24.45	24.55	24.57	25.23	25.28	25.30
		50	0	25.38	25.39	25.23	24.32	24.35	24.42	25.01	25.09	25.08
	QPSK	1	0	24.63	25.13	24.98	24.02	24.03	23.97	24.10	24.68	24.75
		1	1	25.70	25.70	25.70	24.70	24.70	24.69	25.21	25.40	25.40
		1	50	25.52	25.61	24.39	24.54	24.64	24.61	25.30	25.31	25.27
		1	51	24.81	24.87	23.42	23.80	23.95	23.88	24.53	24.51	24.30
		25	12	25.50	25.58	25.46	24.56	24.62	24.60	25.26	25.36	25.33
		50	0	24.84	24.92	24.79	23.82	23.89	23.94	24.56	24.67	24.61
	16QAM	1	0	24.09	24.33	24.06	23.06	22.92	22.96	23.24	23.69	23.98
		1	1	25.06	25.26	24.91	24.03	23.89	23.99	24.38	24.53	24.94
		1	50	25.22	25.29	23.70	23.76	23.87	23.86	24.60	24.48	24.63
		1	51	24.11	23.97	22.82	22.73	22.86	22.81	23.53	23.48	23.76
		25	12	24.80	24.90	24.82	23.78	23.80	24.01	24.43	24.66	24.63
		50	0	23.78	23.96	23.79	22.76	22.84	22.84	23.44	23.57	23.58
	64QAM	1	0	23.02	23.39	23.19	22.32	22.31	22.37	22.24	22.98	23.19
		1	1	23.16	23.31	23.28	22.34	22.22	22.39	22.48	22.88	23.11
		1	50	22.92	23.22	22.21	22.16	22.25	22.12	22.63	22.66	23.01
		1	51	22.99	23.23	22.18	22.22	22.25	22.19	22.64	22.68	22.99
		25	12	23.31	23.42	23.19	22.26	22.31	22.33	23.00	23.12	23.18
		50	0	23.37	23.40	23.29	22.32	22.40	22.50	22.98	23.10	23.15
	256QAM	1	0	21.46	21.46	21.30	20.15	20.10	20.11	20.87	20.74	20.72
		1	1	21.41	21.30	21.31	20.19	19.99	20.26	20.92	20.74	20.78
		1	50	21.39	21.39	20.79	20.07	20.05	20.10	20.73	20.77	20.56
		1	51	21.27	21.35	20.72	20.04	20.07	20.11	20.74	20.54	20.55
		25	12	21.29	21.39	21.16	20.28	20.24	20.28	20.94	21.00	21.03
		50	0	21.24	21.41	21.16	20.26	20.32	20.38	20.88	21.00	21.15

OUTPUT POWER FOR 5G NR n71 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				134100	136100	138100	134100	136100	138100	134100	136100	138100
15.0	BPSK	1	0	25.50	25.45	25.58	24.43	24.42	24.56	25.12	25.35	25.23
		1	1	25.69	25.61	25.65	24.62	24.54	24.70	25.40	25.35	25.40
		1	77	25.50	25.50	25.48	24.46	24.46	24.52	25.20	25.31	25.24
		1	78	25.29	25.24	25.16	24.25	24.26	24.33	25.05	25.15	25.03
		36	18	25.45	25.52	25.66	24.44	24.53	24.63	25.19	25.24	25.29
		75	0	25.37	25.37	25.46	24.29	24.33	24.50	25.08	25.10	25.13
		1	0	24.73	25.04	25.09	23.96	24.08	24.17	24.15	24.79	24.79
	1	1	25.70	25.70	25.70	24.70	24.70	24.67	25.29	25.40	25.40	
	1	77	25.50	25.63	24.64	24.53	24.59	24.45	25.22	25.33	25.09	
	1	78	24.84	24.88	23.66	23.74	23.80	23.81	24.49	24.56	24.09	
	36	18	25.51	25.63	25.68	24.52	24.54	24.63	25.32	25.35	25.36	
	75	0	24.90	24.91	25.01	23.86	23.87	23.99	24.60	24.62	24.62	
	1	0	23.59	23.99	24.32	22.77	22.70	23.14	23.27	23.82	23.79	
	1	1	24.76	25.18	25.37	23.72	23.71	24.17	24.34	24.86	24.80	
	1	77	24.53	24.97	24.11	23.54	23.58	23.96	24.55	24.73	24.21	
	1	78	23.50	23.92	22.97	22.62	22.59	22.88	23.43	23.59	23.22	
	36	18	24.88	24.85	25.00	23.79	23.91	23.96	24.61	24.68	24.76	
	75	0	23.83	23.79	23.94	22.76	22.88	22.91	23.51	23.62	23.69	
	1	0	23.20	23.27	23.66	22.33	22.41	22.60	22.35	23.22	23.20	
	1	1	23.23	23.20	23.37	22.36	22.36	22.50	22.45	22.99	23.12	
	1	77	23.25	23.07	22.39	22.16	22.21	22.31	22.75	22.88	22.77	
	1	78	23.25	23.07	22.22	22.11	22.12	22.40	22.64	22.91	22.72	
	36	18	23.36	23.38	23.52	22.26	22.37	22.44	23.09	23.11	23.15	
	75	0	23.31	23.35	23.49	22.25	22.34	22.47	23.04	23.15	23.21	
	1	0	21.51	21.50	21.66	20.15	20.13	20.35	20.92	20.79	21.08	
	1	1	21.65	21.46	21.62	20.04	19.99	20.30	21.15	20.71	21.03	
	1	77	21.14	21.30	20.93	19.95	19.93	20.07	20.92	20.79	20.78	
	1	78	21.19	21.32	20.76	19.86	19.99	19.92	20.92	20.68	20.81	
	36	18	21.25	21.30	21.49	20.22	20.27	20.36	21.11	21.11	21.20	
	75	0	21.27	21.29	21.51	20.24	20.31	20.43	20.99	21.04	21.12	

OUTPUT POWER FOR 5G NR n71 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)								
				ANT 1			ANT 2			ANT 3		
				134600	136600	137600	134600	136600	137600	134600	136600	137600
20.0	BPSK	1	0	25.42	25.54	25.52	24.38	24.60	24.62	25.12	25.14	25.27
		1	1	25.70	25.66	25.67	24.70	24.70	24.70	25.40	25.27	25.36
		1	104	25.36	25.46	25.41	24.36	24.52	24.44	24.99	25.04	25.08
		1	105	25.14	25.21	24.99	24.23	24.33	24.21	24.88	24.87	24.93
		50	25	25.44	25.49	25.60	24.51	24.64	24.60	25.18	25.17	25.24
		100	0	25.21	25.36	25.33	24.38	24.46	24.30	24.94	25.00	24.98
		1	0	24.88	25.03	25.10	24.00	24.02	24.16	24.26	24.67	24.73
	1	1	25.61	25.70	25.70	24.67	24.64	24.62	25.34	25.40	25.40	
	1	104	25.31	25.52	24.27	24.38	24.43	24.36	25.09	25.23	24.94	
	1	105	24.56	24.82	23.21	23.59	23.79	23.72	24.34	24.38	23.97	
	50	25	25.42	25.61	25.61	24.47	24.64	24.60	25.20	25.19	25.21	
	100	0	24.70	24.85	24.81	23.87	23.93	23.77	24.46	24.49	24.43	
	1	0	23.41	24.10	23.99	22.84	23.03	23.02	23.12	23.70	23.67	
	1	1	24.46	25.09	24.90	23.76	24.04	23.94	24.20	24.62	24.45	
	1	104	24.40	24.81	23.47	23.53	23.92	23.76	24.30	24.46	24.12	
	1	105	23.14	23.75	22.46	22.44	22.76	22.64	23.37	23.30	23.14	
	50	25	24.67	24.86	24.94	23.73	23.95	23.90	24.39	24.56	24.46	
	100	0	23.67	23.84	23.84	22.84	22.87	22.75	23.46	23.52	23.43	
	1	0	23.21	23.43	23.40	22.56	22.75	22.51	22.12	23.01	23.05	
	1	1	23.43	23.30	23.44	22.61	22.58	22.45	22.38	22.92	22.81	
	1	104	22.87	23.15	22.48	22.24	22.49	22.23	22.36	22.74	22.39	
	1	105	22.81	23.26	22.17	22.26	22.48	22.13	22.43	22.81	22.38	
	50	25	23.24	23.36	23.42	22.31	22.48	22.48	22.90	23.04	23.06	
	100	0	23.21	23.28	23.33	22.40	22.46	22.36	22.86	23.04	22.95	
	1	0	21.20	21.52	21.77	20.10	20.27	20.27	20.61	21.00	21.17	
	1	1	21.38	21.49	21.52	20.19	20.17	20.20	20.82	20.78	20.98	
	1	104	21.19	21.26	20.61	19.97	20.10	20.00	20.79	20.69	20.76	
	1	105	21.06	21.18	20.75	20.01	20.16	20.01	20.77	20.59	20.78	
	50	25	21.04	21.22	21.33	20.23	20.33	20.35	20.90	20.95	21.02	
	100	0	21.13	21.25	21.28	20.33	20.37	20.20	20.93	20.95	20.94	

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		
				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	N/A	3500.0	N/A	N/A	3500.0	N/A	N/A	3500.0	N/A	N/A	3500.0	N/A
		1	1		25.00			22.53			25.01			21.06	
		1	271		28.70			25.97			28.46			24.49	
		1	272		28.58			26.15			28.70			24.58	
		135	67		25.03			22.51			24.87			21.15	
		270	0		28.40			25.96			28.43			24.59	
	QPSK	1	0		27.87			25.46			27.95			24.11	
		1	1		25.06			22.28			25.03			21.24	
		1	271		28.37			26.08			28.50			24.70	
		1	272		28.54			26.20			28.67			24.58	
		135	67		25.05			22.63			25.03			21.03	
		270	0		28.38			26.00			28.54			24.64	
	16QAM	1	0		27.37			24.91			27.46			23.48	
		1	1		24.62			22.90			25.18			21.24	
		1	271		27.37			25.16			27.50			23.64	
		1	272		27.49			25.39			27.55			23.36	
		135	67		24.99			22.50			25.22			21.18	
		270	0		27.40			24.90			27.57			23.63	
	64QAM	1	0		26.39			23.96			26.60			22.58	
		1	1		24.86			22.46			25.34			21.01	
		1	271		26.07			23.50			26.02			21.86	
		1	272		26.09			23.73			26.02			21.91	
		135	67		25.00			22.35			25.01			21.00	
		270	0		25.91			23.41			26.11			22.15	
	256QAM	1	0		23.47			21.60			24.45			19.88	
		1	1		23.74			21.45			24.05			20.04	
		1	271		23.77			21.79			24.39			19.67	
		1	272		23.72			21.79			24.33			20.01	
		135	67		23.91			21.51			24.04			20.08	
		270	0		23.89			21.51			24.04			20.05	

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	25.17	25.13	25.29	22.64	22.95	22.95	24.79	25.42	25.01	21.58	20.98	21.10
				3750.0	3840.0	3930.0	3750.0	3840.0	3930.0	3750.0	3840.0	3930.0	3750.0	3840.0	3930.0
		1	1	28.51	28.60	28.52	26.03	26.13	26.20	28.70	28.70	28.70	24.65	24.68	24.70
		1	271	28.31	28.05	28.41	26.16	26.19	26.05	28.35	28.32	28.23	23.97	23.67	23.78
		1	272	24.88	24.17	24.85	22.58	22.49	22.40	24.92	24.72	24.64	20.38	20.05	20.19
		135	67	28.70	28.26	28.60	26.20	25.96	25.89	28.59	28.60	28.12	24.28	23.96	24.05
		270	0	28.19	27.79	28.06	25.56	25.51	25.35	28.04	28.03	27.70	23.82	23.54	23.56
		1	0	25.05	25.12	25.35	22.64	22.69	22.67	25.00	25.24	24.80	21.24	21.13	20.70
		1	1	28.69	28.70	28.70	26.03	26.20	25.99	28.65	28.66	28.50	24.70	24.70	24.51
		1	271	28.35	27.86	28.42	26.17	26.06	26.06	28.68	28.59	27.95	24.12	23.55	23.85
		1	272	24.86	24.28	24.87	22.73	22.28	22.26	24.91	24.78	24.51	20.29	19.95	20.24
		135	67	28.49	27.64	28.27	26.20	26.06	25.79	28.62	28.67	28.16	24.33	24.00	24.08
	270	0	27.63	27.21	27.56	25.04	25.04	24.85	27.59	27.56	27.18	23.35	23.05	23.01	
	1	0	25.43	25.51	25.44	22.67	23.44	23.13	24.74	25.54	24.74	20.98	21.36	20.61	
	1	1	27.79	27.72	27.80	25.01	25.42	25.65	27.36	28.00	27.44	23.16	23.66	23.23	
	1	271	27.27	26.68	27.28	25.20	25.16	25.20	27.42	27.61	26.97	22.45	22.46	22.14	
	1	272	25.00	24.27	24.50	22.44	22.35	22.87	24.77	25.36	24.41	20.13	19.90	20.26	
	135	67	27.59	26.77	27.46	25.15	24.99	24.89	27.75	27.68	27.10	23.22	22.88	23.00	
	270	0	26.60	26.26	26.55	24.12	24.01	23.86	26.65	26.54	26.17	22.31	22.00	22.05	
	1	0	25.19	25.24	25.12	22.71	22.36	22.69	25.38	25.73	25.52	21.15	20.98	21.27	
	1	1	26.68	26.33	26.53	23.86	23.56	23.58	26.52	25.97	26.10	21.76	21.86	21.99	
	1	271	25.86	25.76	26.20	23.68	23.03	23.31	26.16	25.93	25.27	21.47	20.93	21.66	
	1	272	25.20	24.42	25.08	22.57	21.80	22.39	25.43	25.06	24.32	20.26	19.51	20.25	
	135	67	26.25	25.44	25.97	23.66	23.51	23.40	26.26	25.95	25.56	21.74	21.39	21.47	
	270	0	26.20	25.85	26.02	23.64	23.43	23.37	26.17	26.02	25.63	21.75	21.49	21.47	
	1	0	24.10	24.63	24.08	21.55	22.10	22.14	23.98	24.61	24.42	19.82	19.62	19.62	
	1	1	24.18	24.03	23.88	21.54	21.83	21.92	24.38	24.19	24.14	20.12	19.54	20.08	
	1	271	23.88	23.46	24.16	21.33	21.65	21.28	23.86	23.70	23.69	19.47	18.54	19.27	
	1	272	24.07	23.14	23.89	21.06	21.29	21.19	24.41	23.68	23.64	19.24	18.77	19.24	
	135	67	24.15	23.70	23.99	21.60	21.46	21.35	24.16	23.95	23.51	19.75	19.36	19.48	
	270	0	24.19	23.73	23.94	21.53	21.49	21.40	24.16	23.94	23.58	19.74	19.45	19.50	

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 7

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 7	5MHz, QPSK	25/0	2535.0	4.506	5.147
	5MHz, 16QAM			4.512	5.141
	10MHz, QPSK	50/0		8.983	9.942
	10MHz, 16QAM			8.990	9.954
	15MHz, QPSK	75/0		13.457	14.930
	15MHz, 16QAM			13.461	14.840
	20MHz, QPSK	100/0		17.923	19.790
	20MHz, 16QAM			17.979	19.550
	20MHz, QPSK	1/0		0.263	0.420

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	4.473	5.045
	5MHz, QPSK			4.481	5.129
	5MHz, 16QAM			4.505	5.112
	10MHz, BPSK	50/0		8.949	9.703
	10MHz, QPSK			8.950	9.791
	10MHz, 16QAM			8.991	9.853
	15MHz, BPSK	75/0		13.415	14.420
	15MHz, QPSK			13.447	14.230
	15MHz, 16QAM			13.435	14.280
	20MHz, BPSK	100/0		17.924	18.980
	20MHz, QPSK			17.898	18.930
	20MHz, 16QAM			17.883	19.000
	25MHz, BPSK	128/0		22.906	24.210
	25MHz, QPSK			22.909	24.110
	25MHz, 16QAM			22.867	24.210
	30MHz, BPSK	160/0		28.657	30.150
	30MHz, QPSK			28.556	30.050
	30MHz, 16QAM			28.576	30.150
	35MHz, BPSK	180/0		32.129	33.660
	35MHz, QPSK			32.206	33.700
	35MHz, 16QAM			32.095	33.690
	40MHz, BPSK	216/0		38.661	40.390
	40MHz, QPSK			38.564	40.600
	40MHz, 16QAM			38.501	40.340
40MHz, BPSK	1/0		0.326	0.485	

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	1.088	1.336
	1.4MHz, 16QAM			1.092	1.350
	3MHz, QPSK	15/0		2.698	3.035
	3MHz, 16QAM			2.699	3.023
	5MHz, QPSK	25/0		4.504	5.096
	5MHz, 16QAM			4.498	5.109
	10MHz, QPSK	50/0		8.969	9.865
	10MHz, 16QAM			8.976	10.050
	10MHz, QPSK	1/0		0.248	0.423

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	4.498	4.958
	5MHz, QPSK			4.504	5.147
	5MHz, 16QAM			4.471	5.017
	10MHz, BPSK	50/0		8.945	9.812
	10MHz, QPSK			8.950	9.759
	10MHz, 16QAM			8.962	9.889
	15MHz, BPSK	75/0		13.437	14.360
	15MHz, QPSK			13.441	14.370
	15MHz, 16QAM			13.424	14.370
	15MHz, BPSK	1/0		0.257	0.435

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	4.495	5.030
	5MHz, 16QAM			4.051	5.095
	10MHz, QPSK	50/0		8.953	9.868
	10MHz, 16QAM			8.957	9.976
	10MHz, QPSK	1/0		0.243	0.421

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	4.502	5.074
	5MHz, 16QAM			4.505	5.142
	10MHz, QPSK	50/0		8.957	9.832
	10MHz, 16QAM			8.959	9.922
	10MHz, QPSK	1/0		0.246	0.392

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	4.487	5.024
	5MHz, QPSK			4.498	5.097
	5MHz, 16QAM			4.475	5.004
	10MHz, BPSK	50/0		8.909	9.659
	10MHz, QPSK			8.936	9.697
	10MHz, 16QAM			8.937	9.726
	10MHz, BPSK	1/0		0.226	0.389

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	4.491	5.111
	5MHz, 16QAM			4.477	4.822
	10MHz, QPSK	50/0		8.960	9.873
	10MHz, 16QAM			8.939	9.388
	10MHz, QPSK	1/0		0.248	0.424

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	1.089	1.339
	1.4MHz, 16QAM			1.092	1.370
	3MHz, QPSK	15/0		2.698	3.047
	3MHz, 16QAM			2.709	3.079
	5MHz, QPSK	25/0		4.497	5.051
	5MHz, 16QAM			4.502	5.133
	10MHz, QPSK	50/0		8.974	9.928
	10MHz, 16QAM			9.018	9.975
	15MHz, QPSK	75/0		13.468	14.840
	15MHz, 16QAM			13.465	14.890
	20MHz, QPSK	100/0		17.941	19.690
	20MHz, 16QAM			17.956	19.600
	20MHz, QPSK	1/0		0.259	0.489

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	4.499	5.190
	5MHz, QPSK			4.504	5.082
	5MHz, 16QAM			4.488	5.112
	10MHz, BPSK	50/0		8.964	9.824
	10MHz, QPSK			8.929	9.639
	10MHz, 16QAM			8.961	9.971
	15MHz, BPSK	75/0		13.504	14.420
	15MHz, QPSK			13.426	14.340
	15MHz, 16QAM			13.423	14.320
	20MHz, BPSK	100/0		17.886	18.940
	20MHz, QPSK			17.836	19.100
	20MHz, 16QAM			17.854	19.050
	25MHz, BPSK	128/0		22.802	24.150
	25MHz, QPSK			22.914	24.230
	25MHz, 16QAM			22.903	24.170
	30MHz, BPSK	160/0		28.680	30.200
	30MHz, QPSK			28.634	30.080
	30MHz, 16QAM			28.605	30.090
	35MHz, BPSK	180/0		32.147	33.750
	35MHz, QPSK			32.177	33.760
35MHz, 16QAM	32.184		33.750		
40MHz, BPSK	216/0	38.484	40.350		
40MHz, QPSK		38.597	40.360		
40MHz, 16QAM		38.562	40.470		
40MHz, BPSK	1/0	0.295	0.533		

LTE BAND 26(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	1.091	1.361
	1.4MHz, 16QAM			1.091	1.358
	3MHz, QPSK	15/0		2.707	3.047
	3MHz, 16QAM			2.699	3.037
	5MHz, QPSK	25/0		4.502	5.118
	5MHz, 16QAM			4.501	5.160
	10MHz, QPSK	50/0		8.957	9.905
	10MHz, 16QAM			8.981	10.050
	10MHz, QPSK	1/0		0.249	0.429

5G NR n26 (PART 90S)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n26 (Part 90S)	5MHz, BPSK	25/0	819.0	4.492	4.955
	5MHz, QPSK			4.479	5.032
	5MHz, 16QAM			4.480	5.128
	10MHz, BPSK	50/0		8.918	9.809
	10MHz, QPSK			8.943	9.731
	10MHz, 16QAM			8.967	9.612
	10MHz, BPSK	1/0		0.237	0.386

LTE BAND 26 (PART 22)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 26	1.4MHz, QPSK	6/0	836.5	1.091	1.336
	1.4MHz, 16QAM			1.093	1.363
	3MHz, QPSK	15/0		2.699	3.043
	3MHz, 16QAM			2.704	3.042
	5MHz, QPSK	25/0		4.499	5.116
	5MHz, 16QAM			4.504	5.091
	10MHz, QPSK	50/0		8.984	9.898
	10MHz, 16QAM			8.979	9.895
	15MHz, QPSK	75/0		13.498	14.920
	15MHz, 16QAM			13.474	14.97
	15MHz, QPSK	1/0		0.260	0.407

5G NR n26 (PART 22)

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n26 (Part 22)	5MHz, BPSK	25/0	836.5	4.492	5.066
	5MHz, QPSK			4.515	5.216
	5MHz, 16QAM			4.488	4.997
	10MHz, BPSK	50/0		8.964	9.752
	10MHz, QPSK			8.972	9.695
	10MHz, 16QAM			8.966	9.725
	15MHz, BPSK	75/0		13.454	14.360
	15MHz, QPSK			13.410	14.340
	15MHz, 16QAM			13.368	14.350
	20MHz, BPSK	100/0		17.878	18.860
	20MHz, QPSK			17.824	18.930
	20MHz, 16QAM			17.881	19.010
	20MHz, BPSK			1/0	0.268

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	4.499	5.089
	5MHz, 16QAM			4.500	5.154
	10MHz, QPSK	50/0		8.998	10.040
	10MHz, 16QAM			8.988	10.020
	10MHz, QPSK	1/0		0.257	0.422

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	4.478	4.998
	5MHz, QPSK			4.483	4.996
	5MHz, 16QAM			4.492	5.069
	10MHz, BPSK	50/0		8.939	9.696
	10MHz, QPSK			8.966	9.665
	10MHz, 16QAM			8.960	9.780
	10MHz, BPSK			1/0	0.232

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	4.485	4.997
	5MHz, 16QAM			4.504	5.076
	10MHz, QPSK	50/0		8.976	9.904
	10MHz, 16QAM			8.972	9.902
	15MHz, QPSK	75/0		13.431	14.630
	15MHz, 16QAM			13.432	14.660
	20MHz, QPSK	100/0		17.918	19.590
	20MHz, 16QAM			17.884	19.410
	20MHz, QPSK	1/0		0.289	0.449

5G NR n41

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n41	10MHz, BPSK	24/0	2593.0	8.617	9.663
	10MHz, QPSK			8.615	9.886
	10MHz, 16QAM			8.646	9.776
	15MHz, BPSK	36/0		12.920	14.140
	15MHz, QPSK			12.885	14.240
	15MHz, 16QAM			12.955	14.280
	20MHz, BPSK	50/0		17.899	19.420
	20MHz, QPSK			17.980	19.750
	20MHz, 16QAM			17.853	19.460
	30MHz, BPSK	75/0		26.886	28.910
	30MHz, QPSK			26.903	28.830
	30MHz, 16QAM			26.832	28.820
	40MHz, BPSK	100/0		35.737	38.120
	40MHz, QPSK			35.755	37.870
	40MHz, 16QAM			35.834	38.050
	50MHz, BPSK	128/0		45.720	48.320
	50MHz, QPSK			45.852	48.330
	50MHz, 16QAM			45.764	48.470
	60MHz, BPSK	162/0		57.858	60.790
	60MHz, QPSK			57.918	60.700
	60MHz, 16QAM			58.045	60.980
	70MHz, BPSK	180/0		64.485	67.340
	70MHz, QPSK			64.414	67.820
	70MHz, 16QAM			64.131	67.580
	80MHz, BPSK	216/0		77.132	80.590
	80MHz, QPSK			77.097	80.500
	80MHz, 16QAM			77.357	80.570
	90MHz, BPSK	243/0		86.702	90.650
	90MHz, QPSK			86.784	91.020
	90MHz, 16QAM			87.110	91.020
100MHz, BPSK	270/0	96.574	100.700		
100MHz, QPSK		96.477	100.700		
100MHz, 16QAM		96.317	101.000		
100MHz, BPSK	1/0	0.598	1.125		

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	4.483	5.028
	5MHz, 16QAM			4.474	4.987
	10MHz, QPSK	50/0		8.917	9.664
	10MHz, 16QAM			8.918	9.503
	15MHz, QPSK	75/0		13.383	14.030
	15MHz, 16QAM			13.435	14.110
	20MHz, QPSK	100/0		17.855	18.890
	20MHz, 16QAM			17.800	18.880
	20MHz, QPSK	1/0		0.294	0.492

5G NR n48

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n48	10MHz, BPSK	24/0	3625.0	8.570	9.538
	10MHz, QPSK			8.562	9.653
	10MHz, 16QAM			8.555	9.359
	15MHz, BPSK	36/0		12.899	13.570
	15MHz, QPSK			12.846	14.000
	15MHz, 16QAM			12.844	13.990
	20MHz, BPSK	50/0		17.899	18.940
	20MHz, QPSK			17.870	19.030
	20MHz, 16QAM			17.927	16.270
	30MHz, BPSK	75/0		26.732	28.210
	30MHz, QPSK			26.716	28.000
	30MHz, 16QAM			26.774	28.020
	40MHz, BPSK	100/0		35.702	37.450
	40MHz, QPSK			35.808	37.390
	40MHz, 16QAM			35.637	37.630
	40MHz, BPSK	1/0		0.495	0.789

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	1.087	1.334
	1.4MHz, 16QAM			1.091	1.336
	3MHz, QPSK	15/0		2.700	3.096
	3MHz, 16QAM			2.709	3.046
	5MHz, QPSK	25/0		4.513	5.130
	5MHz, 16QAM			4.498	5.059
	10MHz, QPSK	50/0		8.986	9.986
	10MHz, 16QAM			8.989	9.976
	15MHz, QPSK	75/0		13.435	14.890
	15MHz, 16QAM			13.462	14.710
	20MHz, QPSK	100/0		17.942	19.620
	20MHz, 16QAM			17.931	19.810
	20MHz, QPSK	1/0		0.265	0.400

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	4.470	4.991
	5MHz, QPSK			4.474	4.989
	5MHz, 16QAM			4.474	5.045
	10MHz, BPSK	50/0		8.985	9.696
	10MHz, QPSK			8.943	9.751
	10MHz, 16QAM			8.945	9.809
	15MHz, BPSK	75/0		13.453	14.530
	15MHz, QPSK			13.480	14.530
	15MHz, 16QAM			13.418	14.360
	20MHz, BPSK	100/0		17.864	18.950
	20MHz, QPSK			17.843	19.060
	20MHz, 16QAM			17.904	19.060
	25MHz, BPSK	128/0		22.892	24.160
	25MHz, QPSK			22.945	24.170
	25MHz, 16QAM			22.877	24.180
	30MHz, BPSK	160/0		28.585	30.090
	30MHz, QPSK			28.593	29.910
	30MHz, 16QAM			28.734	30.200
	35MHz, BPSK	180/0		32.205	33.740
	35MHz, QPSK			32.120	33.770
	35MHz, 16QAM			32.213	33.790
	40MHz, BPSK	216/0		38.710	40.370
	40MHz, QPSK			38.613	40.380
	40MHz, 16QAM			38.639	40.580
40MHz, BPSK	1/0	0.284	0.477		

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	4.478	5.036
	5MHz, QPSK			4.483	5.165
	5MHz, 16QAM			4.503	5.124
	10MHz, BPSK	50/0		8.978	9.735
	10MHz, QPSK			8.928	9.719
	10MHz, 16QAM			8.961	9.695
	15MHz, BPSK	75/0		13.419	14.410
	15MHz, QPSK			13.489	14.400
	15MHz, 16QAM			13.433	14.350
	15MHz, BPSK	1/0		0.265	0.438

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	4.496	5.095
	5MHz, 16QAM			4.502	5.066
	10MHz, QPSK	50/0		8.979	9.909
	10MHz, 16QAM			8.962	9.870
	15MHz, QPSK	75/0		13.436	14.830
	15MHz, 16QAM			13.442	14.670
	20MHz, QPSK	100/0		17.830	18.610
	20MHz, 16QAM			17.897	19.570
	20MHz, QPSK	1/0		0.265	0.440

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	4.511	5.128
	5MHz, QPSK			4.479	5.188
	5MHz, 16QAM			4.477	5.070
	10MHz, BPSK	50/0		8.960	9.752
	10MHz, QPSK			8.967	9.884
	10MHz, 16QAM			8.939	9.694
	15MHz, BPSK	75/0		13.390	14.290
	15MHz, QPSK			13.411	14.370
	15MHz, 16QAM			13.426	14.320
	20MHz, BPSK	100/0		17.838	18.950
	20MHz, QPSK			17.843	18.970
	20MHz, 16QAM			17.900	18.940
	20MHz, BPSK	1/0		0.271	0.470

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

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n77 (Part 27 3450- 3550MHz)	10MHz, BPSK	24/0	3500.0	8.584	9.744
	10MHz, QPSK			8.664	9.725
	10MHz, 16QAM			8.694	10.010
	15MHz, BPSK	36/0		12.894	14.220
	15MHz, QPSK			12.954	14.480
	15MHz, 16QAM			12.942	14.150
	20MHz, BPSK	50/0		17.831	19.480
	20MHz, QPSK			17.905	19.520
	20MHz, 16QAM			17.939	19.700
	30MHz, BPSK	75/0		26.802	28.810
	30MHz, QPSK			26.866	28.770
	30MHz, 16QAM			26.851	28.850
	40MHz, BPSK	100/0		35.754	38.080
	40MHz, QPSK			35.929	38.070
	40MHz, 16QAM			35.828	37.950
	50MHz, BPSK	128/0		45.713	48.230
	50MHz, QPSK			45.662	48.270
	50MHz, 16QAM			45.741	48.230
	60MHz, BPSK	162/0		57.816	61.010
	60MHz, QPSK			57.754	60.880
	60MHz, 16QAM			57.902	60.960
	70MHz, BPSK	180/0		64.295	67.320
	70MHz, QPSK			64.508	67.840
	70MHz, 16QAM			64.340	67.380
	80MHz, BPSK	216/0		77.397	80.570
	80MHz, QPSK			77.052	80.640
	80MHz, 16QAM			77.233	80.620
	90MHz, BPSK	243/0		86.706	90.710
90MHz, QPSK	86.866		90.640		
90MHz, 16QAM	86.825		90.580		
100MHz, BPSK	270/0	96.407	100.700		
100MHz, QPSK		96.572	100.600		
100MHz, 16QAM		96.455	100.700		
100MHz, BPSK	1/0	0.596	0.984		

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

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n77 (Part 27 3700- 3980MHz)	10MHz, BPSK	24/0	3840.0	8.582	9.214
	10MHz, QPSK			8.606	9.370
	10MHz, 16QAM			8.573	9.790
	15MHz, BPSK	36/0		12.938	14.190
	15MHz, QPSK			12.881	14.240
	15MHz, 16QAM			12.933	13.710
	20MHz, BPSK	50/0		17.853	19.470
	20MHz, QPSK			17.816	18.810
	20MHz, 16QAM			17.914	19.160
	30MHz, BPSK	75/0		26.873	28.300
	30MHz, QPSK			26.828	28.260
	30MHz, 16QAM			26.800	28.470
	40MHz, BPSK	100/0		35.761	37.720
	40MHz, QPSK			35.735	37.490
	40MHz, 16QAM			35.768	37.650
	50MHz, BPSK	128/0		45.684	47.960
	50MHz, QPSK			45.750	48.010
	50MHz, 16QAM			45.795	47.890
	60MHz, BPSK	162/0		57.910	60.460
	60MHz, QPSK			57.737	60.370
	60MHz, 16QAM			57.703	60.510
	70MHz, BPSK	180/0		64.339	67.320
	70MHz, QPSK			64.361	67.340
	70MHz, 16QAM			64.475	67.250
	80MHz, BPSK	216/0		77.023	80.360
	80MHz, QPSK			76.979	80.320
	80MHz, 16QAM			77.120	80.320
	90MHz, BPSK	243/0		86.652	90.430
	90MHz, QPSK			86.759	90.460
	90MHz, 16QAM			86.713	90.360
100MHz, BPSK	270/0	96.288	100.500		
100MHz, QPSK		96.451	100.500		
100MHz, 16QAM		96.292	100.400		
100MHz, BPSK	1/0	0.597	1.063		

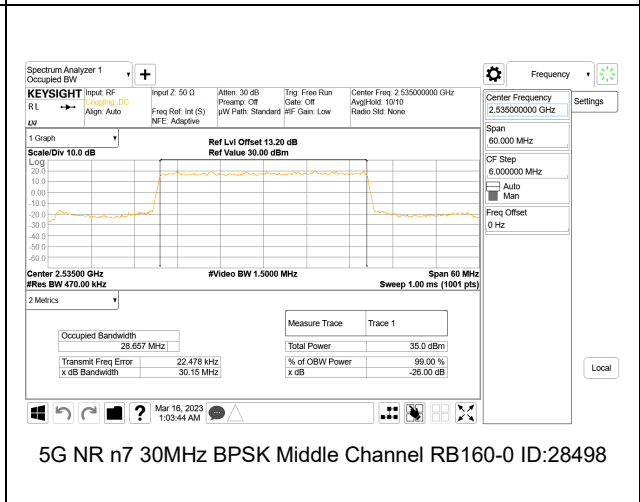
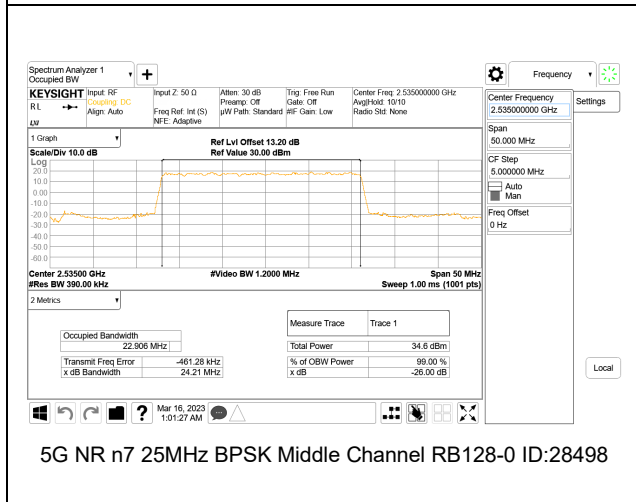
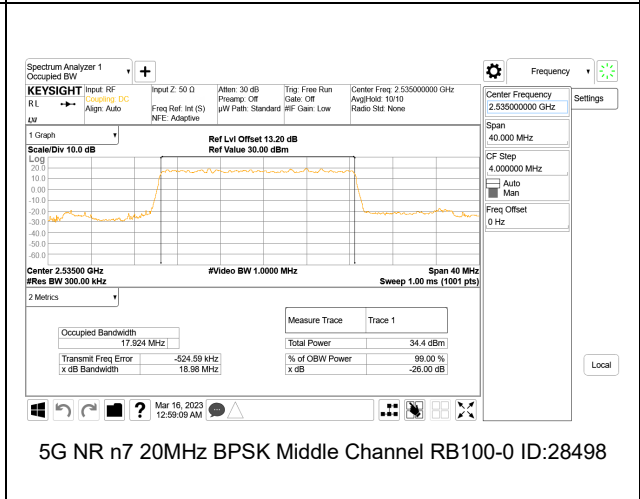
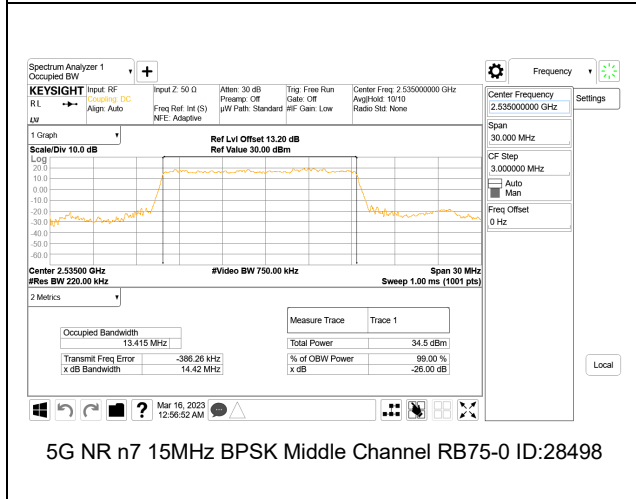
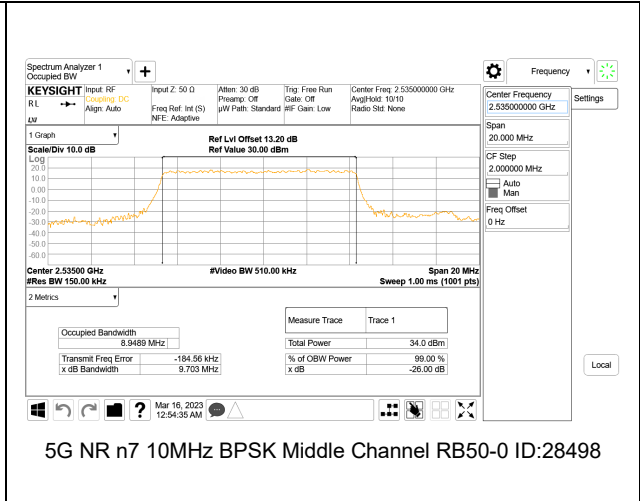
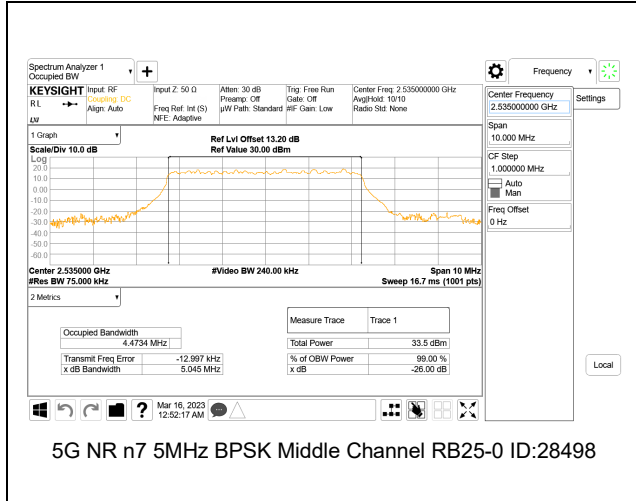
9.1.1. LTE BAND 7 AND 5G NR n7

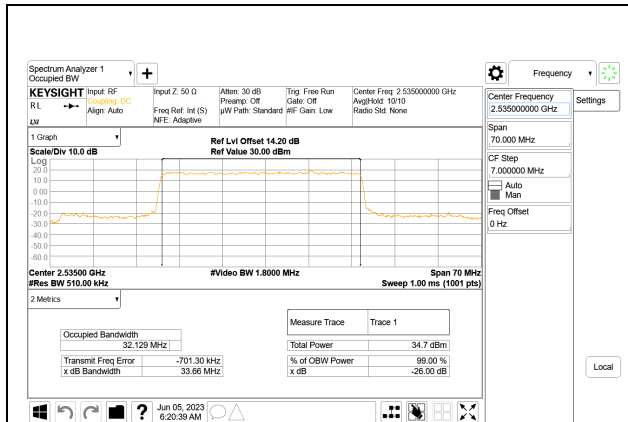
LTE BAND 7



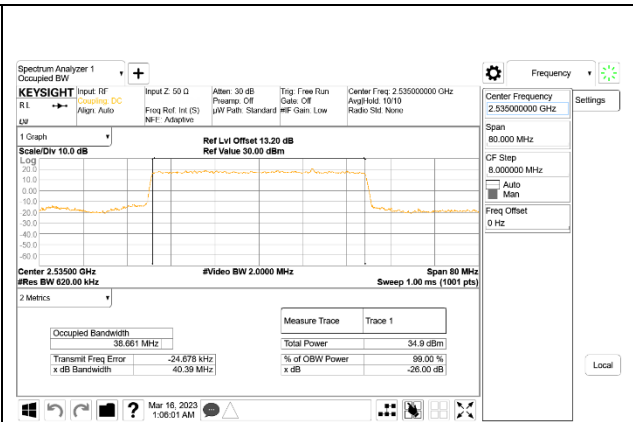
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5G NR n7

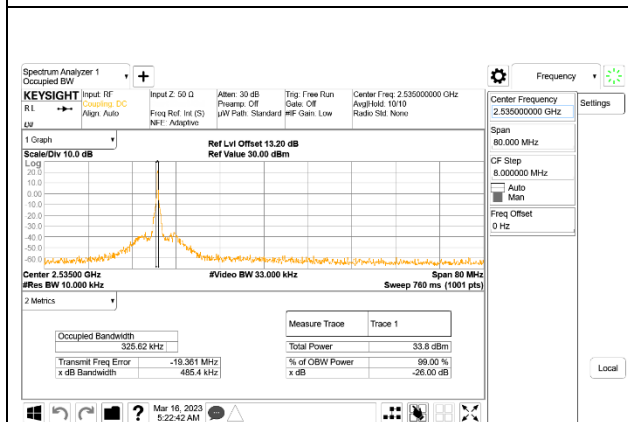




5G NR n7 35MHz BPSK Middle Channel RB150-0 ID:28498



5G NR n7 40MHz BPSK Middle Channel RB216-0 ID:28498



5G NR n7 40MHz BPSK Middle Channel RB1-0 ID:28498

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9.1.2. LTE BAND 12 AND 5G NR n12

LTE BAND 12



LTE B12 1.4MHz QPSK Middle Channel RB6-0 ID:19210

LTE B12 3MHz QPSK Middle Channel RB15-0 ID:19210

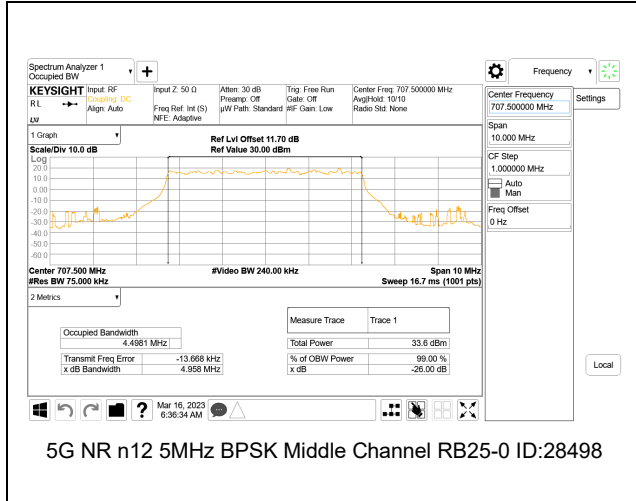
LTE B12 5MHz QPSK Middle Channel RB25-0 ID:19210

LTE B12 10MHz QPSK Middle Channel RB50-0 ID:19210

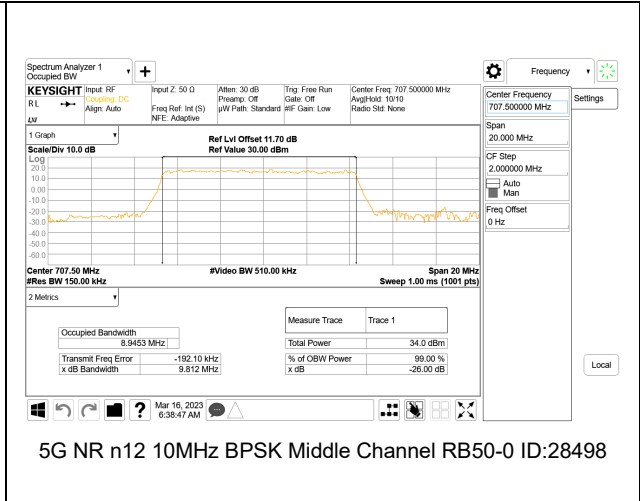
LTE B12 10MHz QPSK Middle Channel RB1-0 ID:19210

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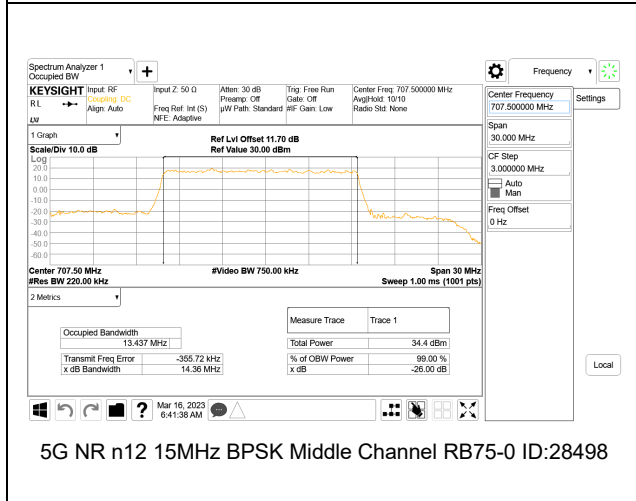
5G NR n12



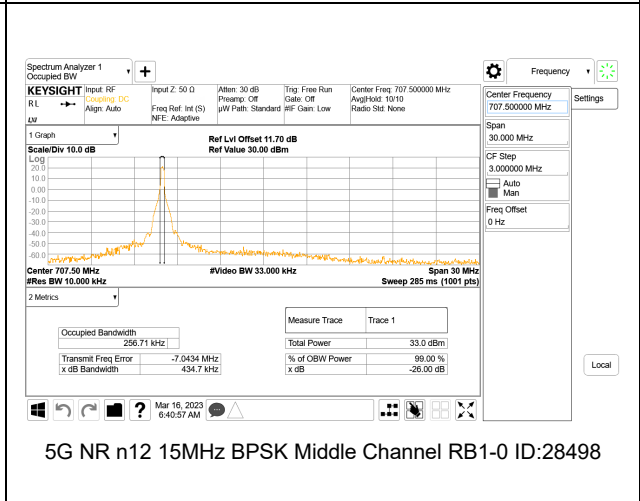
5G NR n12 5MHz BPSK Middle Channel RB25-0 ID:28498



5G NR n12 10MHz BPSK Middle Channel RB50-0 ID:28498

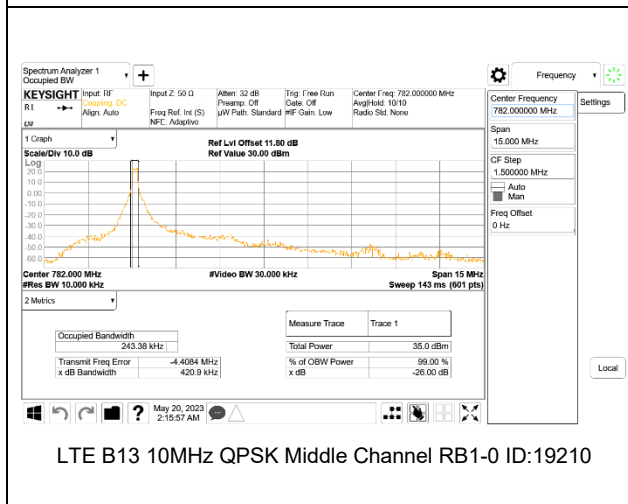
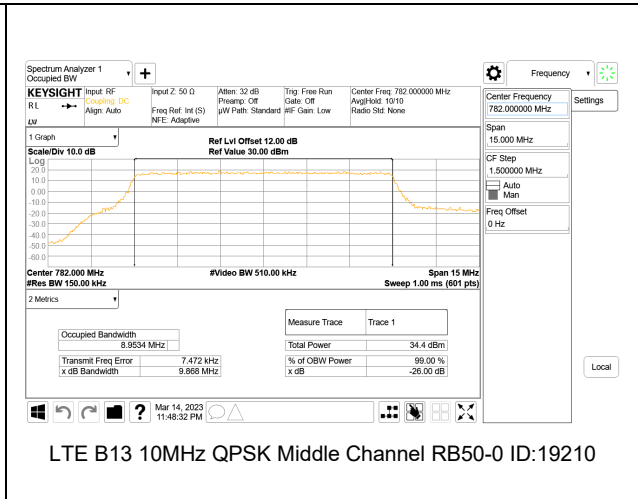
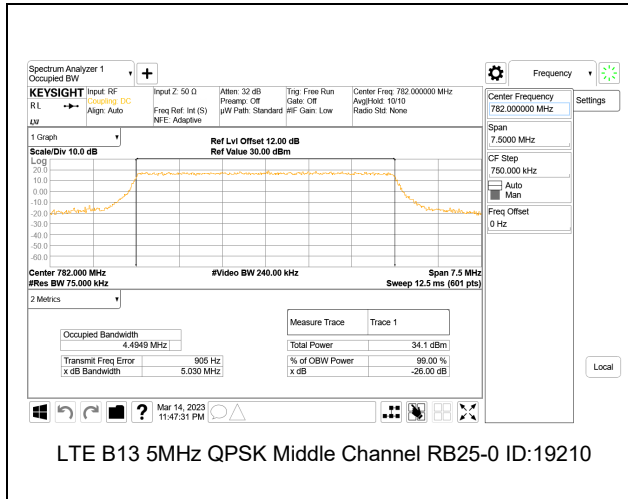


5G NR n12 15MHz BPSK Middle Channel RB75-0 ID:28498



5G NR n12 15MHz BPSK Middle Channel RB1-0 ID:28498

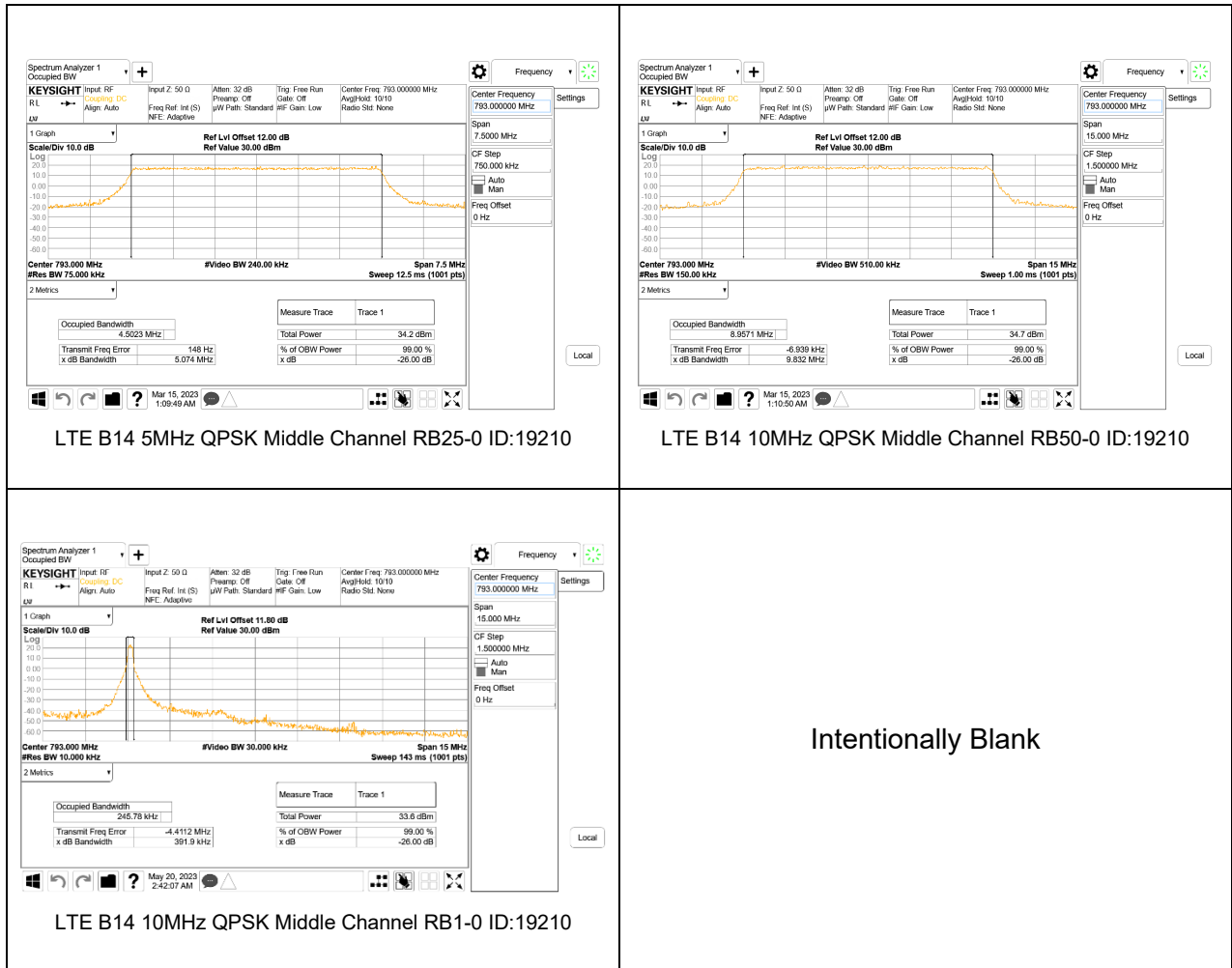
9.1.3. LTE BAND 13



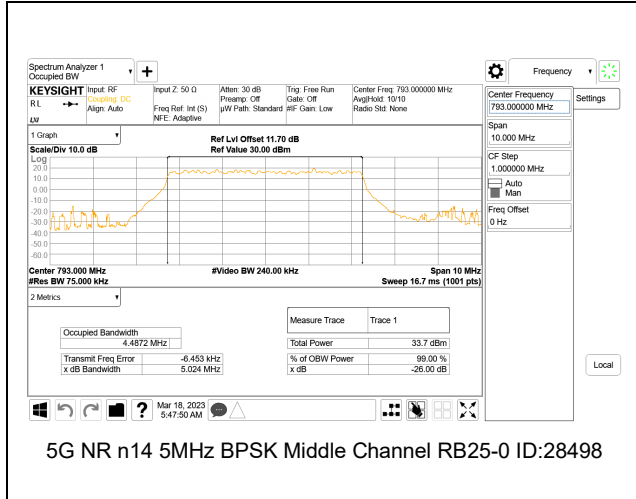
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9.1.4. LTE BAND 14 AND 5G NR n14

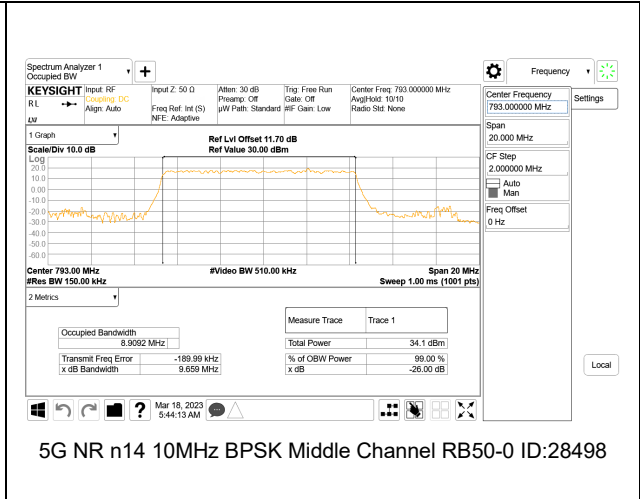
LTE BAND 14



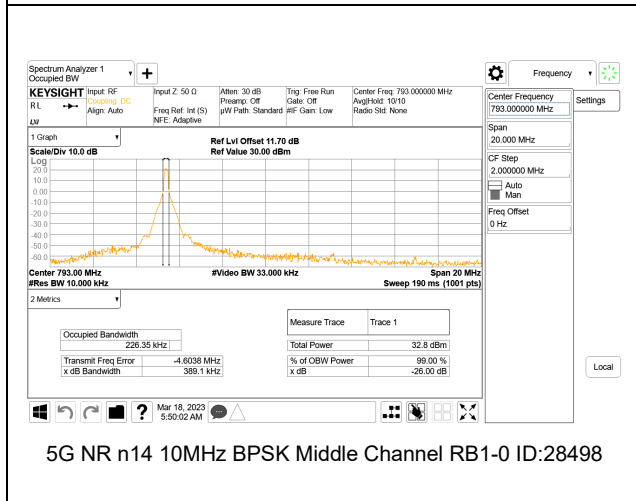
5G NR n14



5G NR n14 5MHz BPSK Middle Channel RB25-0 ID:28498



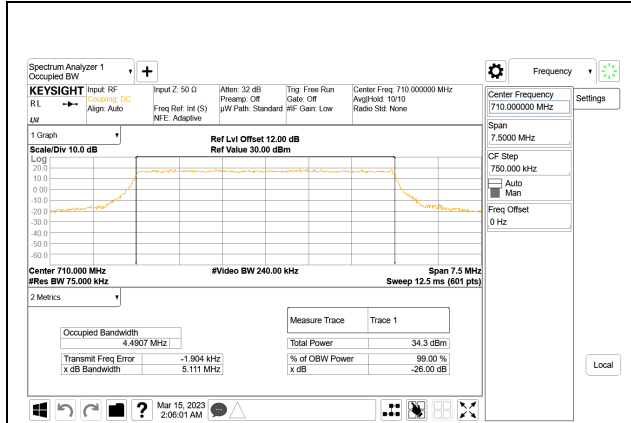
5G NR n14 10MHz BPSK Middle Channel RB50-0 ID:28498



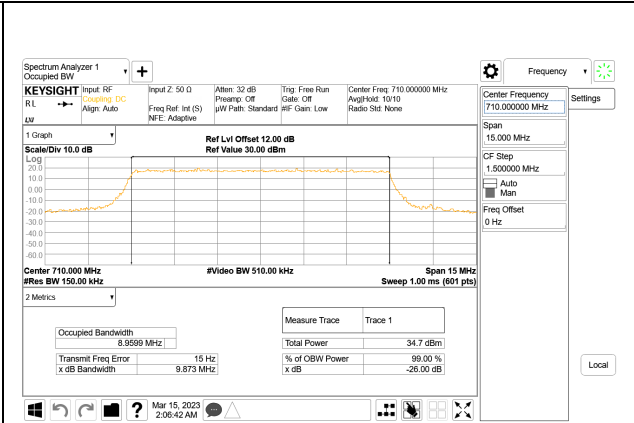
5G NR n14 10MHz BPSK Middle Channel RB1-0 ID:28498

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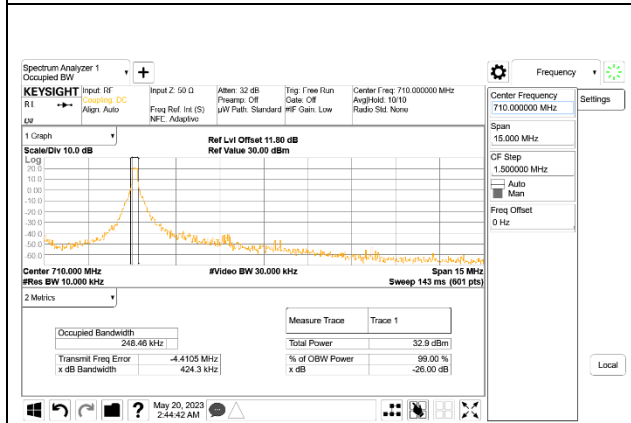
9.1.5. LTE BAND 17



LTE B17 5MHz QPSK Middle Channel RB25-0 ID:19210



LTE B17 10MHz QPSK Middle Channel RB50-0 ID:19210



LTE B17 10MHz QPSK Middle Channel RB1-0 ID:19210

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9.1.6. LTE BAND 25 AND 5G NR n25

LTE BAND 25



