

TEST REPORT

Report Number: 15496249-E27V2

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

Model : A3257

Brand : APPLE

FCC ID : BCG-E8950A

IC : 579C-E8950A

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 2, PART 27
ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-139 ISSUE 4

Date Of Issue:
2025-08-09

Prepared by:
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Revision History

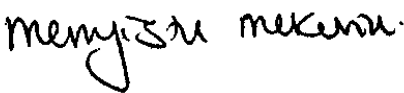
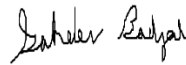
Rev.	Issue Date	Revisions	Revised By
V1	2025-07-29	Initial Review	--
V2	2025-08-09	Addressed TCB Questions at Section 10.1.1	Mengistu Mekuria

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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE, INC 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.	
Model	A3257	
Brand	APPLE	
FCC ID	BCG-E8950A	
IC	579C-E8950A	
EUT Description	SMARTPHONE	
Serial Number	Radiated: HM7J7JQX6J, LFJJGD2VPV, GMHVQR27VP Conducted: HVHHH5000AY000122J, HVHHH50002D0000YE7 HVHHD20009U0000YE7	
Sample Receipt Date	2025-02-28	
Date Tested	2025-03-31 to 2025-07-11	
Applicable Standards	FCC 47 CFR PART 2, PART 27 ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-139 ISSUE 4	
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.		
		
Mengistu Mekuria Staff Laboratory Engineer UL Verification Services Inc.	Eric Ting Senior Test Engineer UL Verification Services Inc.	Sahdev Badyal Laboratory Engineer 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 correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

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

1. Antenna gain and type (see section 6.4.)

Requirement Description	Requirement Clause Number (FCC)	Requirement Clause Number (ISED)	Result	Remarks
Equivalent Isotropic Radiated Power	27.50 (d) (4)	RSS139§5.5	Complies	
Occupied Bandwidth	2.1049	RSS-GEN§6.7, RSS139	Complies	
Band Edge and Emission Mask	2.1051, 27.53 (h)	RSS139§5.6	Complies	
Out of Band Emissions	2.1051, 27.53 (h)	RSS139§5.6	Complies	
Frequency Stability	2.1055, 27.54	RSS139§5.4	Complies	
Peak-to-Average Ratio	27.50 (d) (5)	RSS139§5.5	Complies	
Field Strength of Spurious Radiation	2.1051, 27.53 (h)	RSS139§5.6	Complies	

3. TEST METHODOLOGY

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

FCC published lists of [measurement procedures](#) for compliance testing.

ISED published lists of [normative test standards and acceptable alternatives procedures](#).

- ANSI C63.26:2015
- ANSI/TIA-603-E (2016)
- FCC 47 CFR Part 2, Part 27
- [FCC KDB 971168 D01](#): Power Meas License Digital Systems (ISED acceptable alternative procedure)
- [FCC KDB 971168 D02](#): Misc Rev Approv License Devices
- [FCC KDB 412172 D01](#): Determining ERP and EIRP
- ISED RSS-Gen Issue 5 + A1 + A2, RSS-139 Issue 4

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
☐	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☐	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☒	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☐	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☒	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 dB
Power Spectral Density	2.466 dB
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using Power Meter	0.450 dB Ave. 1.300 dB Peak
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, WCDMA, LTE, 5G NR1, 5G NR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

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 66

Part 27 / RSS 139									
EIRP Limit (W)		1.00							
Antenna Gain (dBi) (Ant 4)		0.10							
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
1.4	QPSK	1710.7	1779.3	25.70	25.80	0.380	1.110	1110	1M11G7W
	16QAM			24.69	24.79	0.301	1.102	1102	1M10D7W
3.0	QPSK	1711.5	1778.5	25.70	25.80	0.380	2.697	2697	2M70G7W
	16QAM			24.68	24.78	0.301	2.700	2700	2M70D7W
5.0	QPSK	1712.5	1777.5	25.70	25.80	0.380	4.517	4517	4M52G7W
	16QAM			24.67	24.77	0.300	4.515	4515	4M52D7W
10.0	QPSK	1715.0	1775.0	25.70	25.80	0.380	9.012	9012	9M01G7W
	16QAM			24.70	24.80	0.302	9.015	9015	9M02D7W
15.0	QPSK	1717.5	1772.5	25.70	25.80	0.380	13.486	13486	13M5G7W
	16QAM			24.60	24.70	0.295	13.491	13491	13M5D7W
20.0	QPSK	1720.0	1770.0	25.70	25.80	0.380	18.004	18004	18M0G7W
	16QAM			24.67	24.77	0.300	18.005	18005	18M0D7W

5G NR n66

Part 27/ RSS 139									
EIRP Limit (W)		1.00							
Antenna Gain (dBi) (Ant 4)		0.10							
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	99% BW (kHz)	Emission Designator
5.0	BPSK	1712.5	1777.5	25.70	25.80	0.380	4.512	4512	4M51G7W
	QPSK			25.70	25.80	0.380	4.506	4506	4M51G7W
	16QAM			24.38	24.48	0.281	4.511	4511	4M51D7W
10.0	BPSK	1715.0	1775.0	25.70	25.80	0.380	9.008	9008	9M01G7W
	QPSK			25.70	25.80	0.380	9.004	9004	9M00G7W
	16QAM			24.25	24.35	0.272	8.976	8976	8M98D7W
15.0	BPSK	1717.5	1772.5	25.70	25.80	0.380	13.481	13481	13M5G7W
	QPSK			25.70	25.80	0.380	13.490	13490	13M5G7W
	16QAM			24.34	24.44	0.278	13.514	13514	13M5D7W
20.0	BPSK	1720.0	1770.0	25.70	25.80	0.380	17.967	17967	18M0G7W
	QPSK			25.70	25.80	0.380	17.937	17937	17M9G7W
	16QAM			24.35	24.45	0.279	17.968	17968	18M0D7W
25.0	BPSK	1722.5	1767.5	25.70	25.80	0.380	22.944	22944	22M9G7W
	QPSK			25.70	25.80	0.380	23.009	23009	23M0G7W
	16QAM			24.32	24.42	0.277	22.933	22933	22M9D7W
30.0	BPSK	1725.0	1765.0	25.70	25.80	0.380	28.689	28689	28M7G7W
	QPSK			25.70	25.80	0.380	28.711	28711	28M7G7W
	16QAM			24.35	24.45	0.279	28.667	28667	28M7D7W
35.0	BPSK	1727.5	1762.5	25.70	25.80	0.380	32.285	32285	32M3G7W
	QPSK			25.70	25.80	0.380	32.213	32213	32M2G7W
	16QAM			24.44	24.54	0.284	32.252	32252	32M3D7W
40.0	BPSK	1730.0	1760.0	25.70	25.80	0.380	38.703	38703	38M7G7W
	QPSK			25.70	25.80	0.380	38.697	38697	38M7G7W
	16QAM			24.40	24.50	0.282	38.629	38629	38M6D7W
45.0	BPSK	1732.5	1757.5	25.70	25.80	0.380	42.994	42994	43M0G7W
	QPSK			25.70	25.80	0.380	43.030	43030	43M0G7W
	16QAM			24.37	24.47	0.280	42.995	42995	43M0D7W

6.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 0.08.00.

6.4. MAXIMUM ANTENNA GAIN AND MAXIMUM ALLOWED OUTPUT POWER

The IFA antenna(s) gain/ allowed output power, as provided by the manufacturer' are as follows:

Bands	Frequency Range (MHz)	Antenna	Gain (dBi)	Max Allowed Conducted Output Power (dBm)	ERP/EIRP (dBm)
LTE Band 4	1710 - 1755	ANT3	-2.30	25.7	23.40
		ANT4	0.10	25.7	25.80
		ANT2	-2.30	25.7	23.40
		ANT1	-4.30	25.7	21.40
LTE Band 66	1710 - 1780	ANT3	-2.30	25.7	23.40
		ANT4	0.10	25.7	25.80
		ANT2	-2.30	25.7	23.40
		ANT1	-4.30	25.7	21.40
5G NR n66	1710 - 1780	ANT3	-2.30	25.7	23.40
		ANT4	0.10	25.7	25.80
		ANT2	-2.30	25.7	23.40
		ANT1	-4.30	25.7	21.40

6.5. WORST-CASE CONFIGURATION AND MODE

This report covers the following technologies:

- LTE Band 4
- LTE Band 66, 5G NR n66

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. Both LTE B4 and B66 have the same output power.

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 section 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
LTE Band 66 and 5G NR n66	Ant 3

The EUT was investigated in three orthogonal orientations X/Y/Z on all available antennas to determine the worst-case orientation. The following table exhibits the worst-case orientation. The full tests of the EUT have made upon the orientations that shown in the table below.

Frequency Range	ANT3	ANT4	ANT2	ANT1
1710 – 1915 MHz	X	X	X	X

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

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

Refer to Appendix A for description of test setup.

7. TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Asset	Cal Due
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169933	2026-02-28
Antenna, Horn 1-18GHz	ETS Lindgren	3117	226673	2026-02-28
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	231874	2026-06-29
Wideband Communication Test Set, Call Box	R&S GmbH & Co.	CMW500	85723	2026-02-28
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223460	2026-02-28
RF Filter Box, 1-18GHz, 17 Port	UL-FR1	RATS 2	236726	2025-10-31
Antenna, Horn 1-18GHz	ETS Lindgren	3117	80403	2026-08-31
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	171863	2026-11-30
Amplifier 9 KHz - 1 GHz	SONOMA INSTRUMENT	310N	224490	2026-05-06
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	170013	2025-07-31
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO-METRICS	EM-6872	170015	2025-07-31
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	262735	2026-03-30
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	231912	2026-04-30
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	259079	2026-02-28
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	262734	2026-04-30
Wideband Communication Call Box	Rohde & Schwarz	CMW500	230298	2026-02-28
Wideband Communication Call Box	Rohde & Schwarz	CMW500	85943	2026-02-28
Wideband Communication Call Box	Rohde & Schwarz	CMW500	262742	2027-02-11
Wideband Communication Call Box	Rohde & Schwarz	CMW500	262741	2027-02-11
Conducted Switch Box	N/A	CSB	221008	2026-04-30
Conducted Switch Box	N/A	CSB	262354	2026-04-30
Filter, BRF 3400-3800MHz, 18GHz max	Micro-Tronics	BRM50711	217364	2025-09-30
Filter, BRF 2305-2315	Micro-Tronics	BRC20553	224186	2026-06-29
Directional Coupler	KRYTAR	152610	254457	2025-10-31
Directional Coupler	KRYTAR	101040010K	254458	2025-10-30
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90718	2026-03-31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	257704	2026-03-31
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	89097	2025-10-31
UL AUTOMATION SOFTWARE				
Conducted Software	UL	Station Tool	Ver. v2025.4.1, v2025.4.8, v2025.5.0, v2025.6.0, & v2025.7.0	
Conducted Software	UL	Power Measurement	Ver 2023.08.14	
Radiated Software	UL	UL EMC	Ver 9.5, May 1, 2023	

8. RF OUTPUT POWER VERIFICATION

CONDUCTED OUTPUT POWER MEASUREMENT PROCEDURE

All bands conducted average power is obtained from the base station simulator.

The following tests were conducted according to the test requirements outlined in ANSI C63.26 Section 5.2.

RESULTS

EUT has different power levels for head use configuration and body use configuration. All measurements are made with the device operating at the highest average conducted output powers.

8.1. LTE BAND 66

Test Engineer ID:	39004	Test Date:	2025-04-01
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OUTPUT POWER FOR LTE BAND 66 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				131979	132322	132665	131979	132322	132665	131979	132322	132665	131979	132322	132665
1.4	QPSK	1	0	25.65	25.60	25.61	25.65	25.64	25.65	25.63	25.68	25.61	25.70	25.66	25.65
		1	2	25.70	25.59	25.63	25.66	25.69	25.70	25.70	25.70	25.64	25.69	25.70	25.65
		1	5	25.67	25.58	25.64	25.70	25.59	25.69	25.54	25.64	25.70	25.58	25.63	25.64
		3	0	25.57	25.58	25.59	25.60	25.68	25.58	25.54	25.62	25.62	25.59	25.62	25.57
		3	1	25.57	25.60	25.65	25.61	25.70	25.64	25.54	25.62	25.66	25.60	25.63	25.61
		3	2	25.56	25.54	25.67	25.66	25.61	25.60	25.51	25.62	25.63	25.58	25.58	25.57
	16QAM	6	0	25.47	25.43	25.46	25.43	25.54	25.48	25.44	25.50	25.45	25.44	25.47	25.44
		1	0	24.63	24.70	24.64	24.63	24.66	24.69	24.65	24.66	24.58	24.60	24.66	24.54
		1	2	24.68	24.52	24.70	24.66	24.67	24.61	24.59	24.62	24.56	24.64	24.61	24.70
		1	5	24.62	24.62	24.64	24.53	24.69	24.52	24.52	24.69	24.60	24.58	24.64	24.58
		3	0	24.59	24.58	24.58	24.52	24.65	24.54	24.52	24.59	24.52	24.55	24.59	24.60
		3	1	24.51	24.67	24.62	24.57	24.59	24.51	24.57	24.69	24.51	24.57	24.67	24.56
	64QAM	3	2	24.56	24.60	24.47	24.54	24.63	24.49	24.60	24.52	24.59	24.61	24.65	24.53
		6	0	23.54	23.53	23.49	23.50	23.59	23.49	23.52	23.55	23.55	23.49	23.53	23.44
		1	0	23.81	23.72	23.70	23.65	23.74	23.71	23.69	23.75	23.69	23.81	23.84	23.74
		1	2	23.81	23.72	23.72	23.74	23.84	23.68	23.72	23.85	23.70	23.87	23.89	23.86
		1	5	23.75	23.66	23.66	23.61	23.77	23.67	23.63	23.70	23.71	23.84	23.81	23.78
		3	0	23.61	23.61	23.63	23.55	23.67	23.55	23.59	23.70	23.63	23.65	23.69	23.69
	256QAM	3	1	23.59	23.65	23.58	23.60	23.63	23.54	23.51	23.68	23.65	23.65	23.69	23.68
		3	2	23.66	23.67	23.56	23.56	23.65	23.57	23.51	23.67	23.60	23.64	23.71	23.65
		6	0	22.54	22.50	22.50	22.46	22.57	22.46	22.41	22.56	22.50	22.56	22.58	22.55
		1	0	20.65	20.65	20.59	20.61	20.67	20.48	20.58	20.68	20.60	20.77	20.71	20.68
		1	2	20.70	20.74	20.65	20.64	20.74	20.62	20.57	20.70	20.67	20.81	20.80	20.82
		1	5	20.69	20.68	20.57	20.55	20.67	20.58	20.54	20.69	20.65	20.81	20.78	20.68
	256QAM	3	0	20.62	20.60	20.61	20.55	20.67	20.46	20.48	20.63	20.57	20.63	20.66	20.47
		3	1	20.65	20.59	20.59	20.57	20.62	20.45	20.53	20.66	20.58	20.62	20.72	20.57
		3	2	20.68	20.61	20.60	20.55	20.65	20.50	20.56	20.61	20.48	20.62	20.63	20.60
		6	0	20.45	20.40	20.45	20.43	20.57	20.38	20.50	20.57	20.53	20.52	20.55	20.48

OUTPUT POWER FOR LTE BAND 66 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				131987	132322	132657	131987	132322	132657	131987	132322	132657	131987	132322	132657
3.0	QPSK	1	0	25.64	25.65	25.42	25.51	25.56	25.60	25.53	25.46	25.53	25.58	25.50	25.56
		1	7	25.70	25.70	25.70	25.70	25.70	25.70	25.70	25.70	25.70	25.70	25.70	25.70
		1	14	25.53	25.62	25.46	25.50	25.60	25.51	25.47	25.42	25.57	25.51	25.53	25.52
		8	0	25.43	25.43	25.29	25.43	25.37	25.37	25.39	25.32	25.36	25.46	25.36	25.36
		8	4	25.46	25.50	25.33	25.45	25.48	25.30	25.45	25.39	25.42	25.49	25.45	25.36
		8	7	25.44	25.49	25.37	25.41	25.45	25.32	25.40	25.36	25.43	25.46	25.44	25.38
	16QAM	15	0	25.41	25.40	25.29	25.39	25.37	25.27	25.40	25.29	25.35	25.43	25.35	25.37
		1	0	24.46	24.54	24.40	24.58	24.50	24.45	24.54	24.41	24.50	24.47	24.52	24.54
		1	7	24.63	24.63	24.63	24.64	24.68	24.52	24.68	24.57	24.56	24.64	24.68	24.65
		1	14	24.48	24.53	24.40	24.47	24.49	24.42	24.44	24.48	24.44	24.48	24.47	24.47
		8	0	23.47	23.46	23.32	23.50	23.39	23.30	23.45	23.33	23.36	23.50	23.38	23.40
		8	4	23.50	23.56	23.33	23.53	23.50	23.30	23.47	23.46	23.40	23.52	23.49	23.45
	64QAM	8	7	23.47	23.52	23.39	23.48	23.45	23.33	23.41	23.39	23.41	23.50	23.46	23.42
		15	0	23.44	23.41	23.29	23.44	23.38	23.27	23.39	23.33	23.30	23.46	23.37	23.36
		1	0	23.60	23.63	23.51	23.58	23.55	23.47	23.51	23.54	23.49	23.55	23.55	23.56
		1	7	23.73	23.83	23.62	23.75	23.68	23.55	23.67	23.69	23.71	23.78	23.67	23.82
		1	14	23.55	23.63	23.45	23.52	23.56	23.43	23.52	23.49	23.48	23.57	23.58	23.63
		8	0	22.48	22.50	22.33	22.47	22.42	22.30	22.46	22.38	22.30	22.57	22.42	22.50
	256QAM	8	4	22.50	22.55	22.36	22.47	22.49	22.30	22.47	22.45	22.37	22.55	22.52	22.47
		8	7	22.47	22.52	22.40	22.47	22.45	22.33	22.44	22.42	22.40	22.52	22.54	22.47
		15	0	22.44	22.45	22.34	22.49	22.40	22.26	22.44	22.36	22.27	22.49	22.35	22.42
		1	0	20.38	20.45	20.43	20.33	20.34	20.28	20.43	20.37	20.33	20.41	20.39	20.41
		1	7	20.64	20.67	20.53	20.60	20.54	20.53	20.65	20.58	20.58	20.65	20.59	20.63
		1	14	20.51	20.58	20.31	20.43	20.44	20.27	20.46	20.42	20.44	20.49	20.45	20.55
	256QAM	8	0	20.45	20.42	20.26	20.45	20.37	20.23	20.49	20.30	20.25	20.48	20.38	20.38
		8	4	20.51	20.52	20.32	20.48	20.43	20.27	20.53	20.38	20.31	20.50	20.49	20.41
		8	7	20.44	20.46	20.36	20.42	20.40	20.32	20.47	20.39	20.34	20.51	20.49	20.41
		15	0	20.47	20.44	20.29	20.43	20.34	20.19	20.48	20.30	20.28	20.50	20.37	20.38

OUTPUT POWER FOR LTE BAND 66 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				131997	132322	132647	131997	132322	132647	131997	132322	132647	131997	132322	132647
5.0	QPSK	1	0	25.64	25.63	25.68	25.70	25.70	25.70	24.91	25.68	25.69	25.60	25.67	25.64
		1	12	25.70	25.70	25.67	25.63	25.60	25.64	25.70	25.70	25.70	25.58	25.70	25.70
		1	24	25.67	25.63	25.64	25.57	25.61	25.67	24.82	25.66	25.66	25.53	25.62	25.69
		12	0	25.47	25.36	25.41	25.45	25.37	25.45	24.68	25.43	25.40	25.39	25.40	25.39
		12	6	25.50	25.42	25.55	25.49	25.51	25.55	24.71	25.46	25.49	25.46	25.43	25.52
		12	11	25.43	25.47	25.49	25.43	25.43	25.46	24.68	25.50	25.46	25.39	25.46	25.45
		25	0	25.43	25.35	25.48	25.41	25.34	25.49	24.69	25.40	25.46	25.37	25.33	25.44
	16QAM	1	0	24.58	24.66	24.67	24.54	24.54	24.60	23.85	24.56	24.64	24.58	24.63	24.70
		1	12	24.70	24.68	24.70	24.56	24.61	24.67	23.80	24.59	24.65	24.70	24.63	24.67
		1	24	24.60	24.67	24.68	24.58	24.50	24.64	23.84	24.55	24.60	24.52	24.63	24.60
		12	0	23.50	23.41	23.43	23.49	23.38	23.36	22.70	23.43	23.47	23.39	23.40	23.43
		12	6	23.54	23.44	23.52	23.42	23.48	23.58	22.77	23.45	23.54	23.41	23.43	23.56
		12	11	23.44	23.49	23.53	23.43	23.45	23.50	22.73	23.46	23.50	23.39	23.45	23.48
		25	0	23.45	23.35	23.50	23.40	23.35	23.49	22.76	23.38	23.47	23.39	23.36	23.48
	64QAM	1	0	23.46	23.53	23.57	23.44	23.56	23.64	22.83	23.61	23.58	23.59	23.70	23.74
		1	12	23.61	23.57	23.69	23.62	23.61	23.67	22.89	23.62	23.63	23.72	23.77	23.84
		1	24	23.48	23.50	23.54	23.41	23.54	23.55	22.84	23.48	23.56	23.62	23.69	23.76
		12	0	22.49	22.39	22.44	22.44	22.41	22.45	21.78	22.57	22.42	22.40	22.39	22.50
		12	6	22.52	22.43	22.54	22.47	22.54	22.58	21.83	22.62	22.56	22.44	22.47	22.60
		12	11	22.45	22.48	22.54	22.43	22.47	22.50	21.77	22.65	22.53	22.39	22.48	22.56
		25	0	22.44	22.38	22.49	22.42	22.40	22.56	21.77	22.54	22.48	22.38	22.39	22.52
	256QAM	1	0	20.47	20.49	20.42	20.43	20.47	20.54	19.78	20.67	20.46	20.42	20.45	20.44
		1	12	20.61	20.56	20.65	20.57	20.66	20.68	19.97	20.71	20.69	20.53	20.58	20.68
		1	24	20.44	20.47	20.55	20.50	20.50	20.62	19.83	20.68	20.44	20.40	20.47	20.48
		12	0	20.47	20.35	20.39	20.40	20.38	20.48	19.74	20.53	20.42	20.38	20.35	20.45
		12	6	20.49	20.38	20.51	20.46	20.47	20.54	19.79	20.59	20.52	20.43	20.39	20.52
		12	11	20.47	20.39	20.43	20.43	20.44	20.49	19.73	20.61	20.43	20.34	20.45	20.46
		25	0	20.45	20.32	20.45	20.43	20.37	20.48	19.74	20.53	20.38	20.38	20.37	20.49

OUTPUT POWER FOR LTE BAND 66 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				132022	132322	132622	132022	132322	132622	132022	132322	132622	132022	132322	132622
10.0	QPSK	1	0	25.69	25.59	25.63	25.65	25.65	25.63	25.58	25.63	25.65	25.68	25.61	25.68
		1	24	25.70	25.68	25.70	25.70	25.64	25.70	25.70	25.70	25.70	25.68	25.66	25.69
		1	49	25.64	25.55	25.57	25.57	25.56	25.54	25.59	25.61	25.57	25.58	25.60	25.59
		25	0	25.46	25.43	25.45	25.52	25.47	25.38	25.43	25.46	25.48	25.48	25.40	25.45
		25	12	25.54	25.43	25.51	25.51	25.46	25.49	25.52	25.43	25.55	25.56	25.37	25.51
		25	24	25.53	25.48	25.50	25.48	25.51	25.44	25.51	25.52	25.53	25.51	25.47	25.51
		50	0	25.53	25.40	25.48	25.47	25.47	25.42	25.48	25.39	25.52	25.54	25.38	25.51
	16QAM	1	0	24.68	24.60	24.55	24.63	24.64	24.54	24.66	24.63	24.62	24.67	24.60	24.70
		1	24	24.65	24.70	24.60	24.65	24.70	24.62	24.58	24.61	24.64	24.70	24.70	24.67
		1	49	24.52	24.53	24.57	24.52	24.54	24.47	24.47	24.48	24.47	24.55	24.53	24.58
		25	0	23.49	23.44	23.44	23.54	23.46	23.33	23.41	23.40	23.47	23.51	23.41	23.46
		25	12	23.59	23.43	23.52	23.51	23.47	23.39	23.49	23.45	23.58	23.58	23.44	23.53
		25	24	23.56	23.49	23.50	23.50	23.55	23.38	23.46	23.51	23.56	23.55	23.48	23.52
		50	0	23.55	23.40	23.50	23.49	23.44	23.36	23.43	23.44	23.52	23.52	23.43	23.54
	64QAM	1	0	23.79	23.66	23.65	23.66	23.65	23.53	23.64	23.64	23.70	23.74	23.69	23.80
		1	24	23.71	23.66	23.73	23.73	23.73	23.57	23.64	23.71	23.68	23.85	23.68	23.81
		1	49	23.69	23.61	23.59	23.62	23.63	23.52	23.48	23.63	23.59	23.66	23.63	23.58
		25	0	22.50	22.41	22.45	22.56	22.47	22.33	22.37	22.44	22.44	22.49	22.47	22.49
		25	12	22.58	22.44	22.54	22.57	22.49	22.40	22.44	22.42	22.57	22.56	22.46	22.57
		25	24	22.54	22.48	22.52	22.53	22.54	22.38	22.42	22.53	22.52	22.56	22.51	22.55
		50	0	22.55	22.40	22.50	22.53	22.46	22.40	22.40	22.44	22.56	22.58	22.44	22.55
	256QAM	1	0	20.59	20.47	20.51	20.60	20.50	20.40	20.44	20.49	20.54	20.52	20.53	20.60
		1	24	20.74	20.63	20.63	20.68	20.69	20.47	20.56	20.65	20.61	20.68	20.67	20.64
		1	49	20.58	20.50	20.54	20.66	20.41	20.38	20.45	20.51	20.53	20.52	20.53	20.50
		25	0	20.47	20.38	20.39	20.56	20.40	20.29	20.38	20.42	20.44	20.48	20.43	20.48
		25	12	20.56	20.39	20.50	20.54	20.38	20.35	20.49	20.39	20.50	20.55	20.43	20.57
		25	24	20.52	20.47	20.47	20.52	20.44	20.34	20.51	20.45	20.49	20.53	20.46	20.53
		50	0	20.52	20.39	20.49	20.50	20.37	20.34	20.46	20.36	20.48	20.52	20.43	20.52

OUTPUT POWER FOR LTE BAND 66 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				132047	132322	132597	132047	132322	132597	132047	132322	132597	132047	132322	132597
15.0	QPSK	1	0	25.64	25.70	25.65	25.64	25.70	25.61	25.66	25.69	25.64	25.70	25.69	25.68
		1	37	25.62	25.62	25.66	25.62	25.69	25.61	25.70	25.68	25.68	25.64	25.66	25.62
		1	74	25.58	25.53	25.70	25.56	25.54	25.54	25.63	25.57	25.66	25.53	25.57	25.60
		36	0	25.37	25.41	25.42	25.35	25.38	25.38	25.41	25.46	25.44	25.41	25.41	25.45
		36	16	25.44	25.39	25.49	25.42	25.39	25.44	25.49	25.44	25.51	25.46	25.39	25.51
		36	35	25.42	25.40	25.48	25.39	25.40	25.40	25.46	25.49	25.49	25.43	25.44	25.45
		75	0	25.40	25.33	25.45	25.39	25.33	25.38	25.43	25.39	25.47	25.37	25.36	25.43
	16QAM	1	0	24.70	24.65	24.67	24.55	24.60	24.49	24.63	24.70	24.62	24.61	24.63	24.70
		1	37	24.66	24.70	24.54	24.55	24.59	24.57	24.61	24.63	24.60	24.57	24.70	24.69
		1	74	24.61	24.54	24.62	24.50	24.51	24.48	24.55	24.53	24.57	24.43	24.63	24.62
		36	0	23.38	23.39	23.45	23.37	23.40	23.36	23.42	23.47	23.47	23.42	23.42	23.46
		36	16	23.46	23.40	23.48	23.43	23.40	23.45	23.49	23.44	23.52	23.47	23.42	23.49
		36	35	23.45	23.44	23.47	23.41	23.45	23.43	23.49	23.48	23.49	23.43	23.47	23.45
		75	0	23.44	23.37	23.46	23.39	23.32	23.42	23.47	23.37	23.51	23.43	23.38	23.46
	64QAM	1	0	23.68	23.75	23.69	23.63	23.70	23.71	23.67	23.68	23.69	24.61	23.71	23.73
		1	37	23.64	23.77	23.73	23.68	23.61	23.71	23.70	23.79	23.76	23.68	23.73	23.71
		1	74	23.60	23.56	23.68	23.60	23.55	23.55	23.56	23.64	23.67	23.54	23.60	23.62
		36	0	22.40	22.43	22.42	22.35	22.36	22.36	22.37	22.43	22.41	22.42	22.43	22.45
		36	16	22.45	22.40	22.51	22.44	22.38	22.44	22.45	22.42	22.51	22.47	22.41	22.52
		36	35	22.42	22.42	22.47	22.41	22.42	22.39	22.44	22.48	22.46	22.44	22.47	22.46
		75	0	22.42	22.39	22.49	22.44	22.37	22.42	22.43	22.40	22.49	22.46	22.40	22.48
	256QAM	1	0	20.57	20.53	20.54	20.52	20.55	20.55	20.57	20.59	20.59	20.59	20.56	20.70
		1	37	20.57	20.60	20.65	20.46	20.58	20.55	20.57	20.62	20.64	20.58	20.63	20.66
		1	74	20.46	20.49	20.46	20.41	20.43	20.44	20.49	20.51	20.55	20.47	20.53	20.47
		36	0	20.37	20.38	20.40	20.29	20.36	20.39	20.36	20.41	20.40	20.40	20.43	20.47
		36	16	20.43	20.38	20.47	20.38	20.35	20.43	20.44	20.41	20.48	20.48	20.44	20.52
		36	35	20.40	20.39	20.42	20.33	20.37	20.41	20.38	20.42	20.45	20.42	20.47	20.46
		75	0	20.42	20.32	20.46	20.34	20.37	20.41	20.42	20.37	20.47	20.44	20.42	20.47

OUTPUT POWER FOR LTE BAND 66 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				132072	132322	132572	132072	132322	132572	132072	132322	132572	132072	132322	132572
20.0	QPSK	1	0	25.69	25.66	25.70	25.58	25.70	25.65	25.56	25.65	25.69	25.64	25.61	25.70
		1	49	25.67	25.70	25.65	25.63	25.65	25.61	25.63	25.70	25.65	25.63	25.63	25.69
		1	99	25.65	25.49	25.53	25.53	25.53	25.52	25.57	25.54	25.64	25.51	25.57	25.57
		50	0	25.49	25.47	25.50	25.47	25.48	25.39	25.43	25.50	25.47	25.44	25.45	25.49
		50	24	25.56	25.47	25.42	25.54	25.46	25.38	25.51	25.47	25.43	25.49	25.43	25.44
		50	49	25.54	25.47	25.45	25.50	25.47	25.40	25.47	25.47	25.47	25.42	25.46	25.42
		100	0	25.52	25.44	25.41	25.50	25.42	25.36	25.44	25.45	25.41	25.46	25.37	25.41
	16QAM	1	0	24.67	24.59	24.69	24.67	24.62	24.59	24.55	24.65	24.67	24.69	24.56	24.69
		1	49	24.70	24.70	24.59	24.59	24.62	24.60	24.64	24.65	24.63	24.70	24.70	24.66
		1	99	24.65	24.53	24.52	24.47	24.49	24.52	24.49	24.46	24.60	24.53	24.58	24.57
		50	0	23.49	23.49	23.48	23.40	23.50	23.42	23.40	23.49	23.48	23.45	23.45	23.49
		50	24	23.56	23.49	23.44	23.47	23.46	23.39	23.48	23.47	23.46	23.51	23.44	23.46
		50	49	23.53	23.50	23.43	23.44	23.47	23.39	23.43	23.46	23.48	23.42	23.49	23.43
		100	0	23.54	23.43	23.40	23.45	23.42	23.38	23.45	23.45	23.42	23.44	23.41	23.42
	64QAM	1	0	23.66	23.68	23.71	23.61	23.63	23.63	23.55	23.72	23.69	23.77	23.76	23.90
		1	49	23.74	23.73	23.64	23.57	23.73	23.62	23.65	23.74	23.72	23.83	23.81	23.86
		1	99	23.66	23.54	23.60	23.59	23.56	23.56	23.53	23.54	23.65	23.69	23.73	23.73
		50	0	22.47	22.50	22.47	22.41	22.50	22.44	22.39	22.48	22.45	22.45	22.44	22.47
		50	24	22.55	22.46	22.43	22.47	22.48	22.38	22.46	22.47	22.43	22.49	22.44	22.43
		50	49	22.53	22.46	22.44	22.47	22.46	22.38	22.43	22.43	22.48	22.43	22.44	22.45
		100	0	22.54	22.44	22.42	22.41	22.41	22.34	22.45	22.43	22.38	22.48	22.41	22.40
	256QAM	1	0	20.55	20.52	20.60	20.49	20.60	20.64	20.50	20.60	20.49	20.55	20.55	20.60
		1	49	20.72	20.68	20.61	20.52	20.65	20.60	20.57	20.64	20.65	20.60	20.70	20.58
		1	99	20.66	20.48	20.45	20.43	20.49	20.52	20.43	20.45	20.57	20.37	20.50	20.42
		50	0	20.47	20.49	20.44	20.34	20.43	20.49	20.35	20.46	20.41	20.44	20.43	20.45
		50	24	20.53	20.49	20.40	20.46	20.42	20.45	20.43	20.43	20.39	20.47	20.46	20.41
		50	49	20.50	20.50	20.38	20.41	20.43	20.45	20.40	20.44	20.41	20.42	20.48	20.43
		100	0	20.51	20.46	20.38	20.43	20.38	20.33	20.41	20.42	20.37	20.47	20.41	20.40

8.2. 5G NR n66

Test Engineer ID:	28567	Test Date:	2025-04-04
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OUTPUT POWER FOR 5G NR n66 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				342500	349000	355500	342500	349000	355500	342500	349000	355500	342500	349000	355500
5.0	BPSK	1	0	1712.5	1745.0	1777.5	1712.5	1745.0	1777.5	1712.5	1745.0	1777.5	1712.5	1745.0	1777.5
		1	0	25.66	25.60	25.50	25.62	25.61	25.52	25.57	25.61	25.54	25.58	25.56	25.64
		1	1	25.70	25.64	25.52	25.63	25.64	25.56	25.58	25.52	25.52	25.66	25.58	25.68
		1	23	25.62	25.63	25.54	25.57	25.60	25.55	25.60	25.53	25.56	25.57	25.57	25.66
		1	24	25.57	25.58	25.53	25.56	25.59	25.56	25.49	25.56	25.57	25.51	25.58	25.67
		12	6	25.69	25.69	25.70	25.65	25.70	25.70	25.70	25.67	25.70	25.65	25.70	25.69
	QPSK	25	0	25.55	25.61	25.53	25.54	25.50	25.54	25.49	25.56	25.53	25.51	25.54	25.55
		1	0	25.39	25.35	25.43	25.42	25.37	25.39	25.40	25.44	25.37	25.40	25.37	25.35
		1	1	25.63	25.58	25.63	25.62	25.60	25.60	25.59	25.64	25.60	25.64	25.60	25.58
		1	23	25.56	25.60	25.62	25.60	25.61	25.58	25.58	25.59	25.59	25.54	25.58	25.60
		1	24	25.42	25.47	25.37	25.35	25.41	25.41	25.42	25.35	25.35	25.31	25.40	25.35
		12	6	25.66	25.70	25.66	25.70	25.69	25.66	25.66	25.70	25.68	25.70	25.70	25.70
	16QAM	25	0	25.44	25.38	25.38	25.41	25.45	25.40	25.39	25.42	25.37	25.34	25.35	25.36
		1	0	23.37	23.27	23.35	23.34	23.35	23.35	23.33	23.19	23.26	23.23	23.27	23.22
		1	1	24.39	24.28	24.23	24.28	24.30	24.30	24.34	24.39	24.35	24.38	24.42	24.32
		1	23	24.48	24.33	24.30	24.23	24.38	24.33	24.27	24.20	24.34	24.24	24.43	24.26
		1	24	23.27	23.31	23.21	23.21	23.32	23.30	23.31	23.27	23.21	23.15	23.20	23.30
		12	6	24.34	24.36	24.21	24.30	24.31	24.25	24.34	24.35	24.27	24.32	24.29	24.31
	64QAM	25	0	23.38	23.36	23.26	23.24	23.32	23.30	23.22	23.27	23.27	23.28	23.28	23.30
		1	0	22.81	22.86	22.71	22.66	22.76	22.71	22.79	22.69	22.79	22.78	22.79	22.62
		1	1	22.86	22.90	22.85	22.73	22.85	22.89	22.85	22.83	22.80	22.73	22.78	22.86
		1	23	22.85	22.81	22.80	22.75	22.87	22.90	22.89	22.79	22.68	22.72	22.81	22.79
		1	24	22.59	22.79	22.75	22.70	22.75	22.85	22.83	22.80	22.68	22.62	22.78	22.72
		12	6	22.85	22.83	22.71	22.76	22.81	22.81	22.79	22.78	22.73	22.74	22.84	22.80
	256QAM	25	0	22.80	22.84	22.76	22.70	22.82	22.75	22.85	22.77	22.76	22.67	22.81	22.85
		1	0	20.78	20.85	20.69	20.67	20.73	20.82	20.71	20.81	20.74	20.72	20.79	20.73
		1	1	20.94	20.91	20.71	20.73	20.87	20.82	20.83	20.82	20.77	20.62	20.79	20.82
		1	23	20.68	20.89	20.78	20.79	20.76	20.80	20.79	20.86	20.83	20.69	20.74	20.76
		1	24	20.76	20.83	20.69	20.74	20.72	20.85	20.78	20.84	20.68	20.60	20.79	20.74
		12	6	20.74	20.81	20.73	20.64	20.71	20.81	20.82	20.81	20.70	20.68	20.82	20.80
		25	0	20.81	20.83	20.74	20.68	20.73	20.79	20.81	20.76	20.70	20.61	20.80	20.78

OUTPUT POWER FOR 5G NR n66 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				343000	349000	355000	343000	349000	355000	343000	349000	355000	343000	349000	355000
10.0	BPSK	1	0	1715.0	1745.0	1775.0	1715.0	1745.0	1775.0	1715.0	1745.0	1775.0	1715.0	1745.0	1775.0
		1	0	25.59	25.55	25.49	25.55	25.51	25.45	25.54	25.57	25.61	25.51	25.50	25.62
		1	1	25.70	25.62	25.61	25.59	25.65	25.56	25.70	25.70	25.61	25.67	25.67	25.63
		1	50	25.64	25.70	25.67	25.55	25.58	25.70	25.68	25.62	25.68	25.49	25.66	25.64
		1	51	25.46	25.47	25.49	25.45	25.48	25.53	25.58	25.51	25.62	25.42	25.57	25.54
		25	12	25.62	25.59	25.61	25.55	25.57	25.54	25.66	25.64	25.59	25.60	25.62	25.63
	QPSK	50	0	25.45	25.53	25.57	25.51	25.56	25.51	25.58	25.60	25.55	25.49	25.55	25.58
		1	0	25.31	25.32	25.40	25.31	25.36	25.31	25.35	25.39	25.30	25.37	25.37	25.39
		1	1	25.67	25.64	25.70	25.70	25.70	25.59	25.69	25.68	25.70	25.70	25.67	25.70
		1	50	25.66	25.61	25.64	25.61	25.62	25.62	25.57	25.64	25.67	25.55	25.69	25.67
		1	51	25.25	25.35	25.33	25.33	25.31	25.23	25.24	25.25	25.38	25.24	25.36	25.33
		25	12	25.63	25.57	25.64	25.65	25.67	25.57	25.60	25.67	25.62	25.62	25.70	25.65
	16QAM	50	0	25.28	25.36	25.39	25.36	25.40	25.32	25.35	25.38	25.35	25.30	25.37	25.33
		1	0	23.26	23.10	23.26	23.34	23.27	23.31	23.36	23.28	23.26	23.27	23.22	23.38
		1	1	24.42	24.23	24.17	24.24	24.20	24.14	24.27	24.35	24.19	24.27	24.22	24.13
		1	50	24.18	24.43	24.30	24.24	24.22	24.17	24.24	24.11	24.20	24.14	24.31	24.21
		1	51	23.34	23.27	23.23	23.28	23.15	23.13	23.08	23.18	23.26	23.07	23.19	23.32
		25	12	24.20	24.20	24.26	24.25	24.24	24.20	24.22	24.24	24.23	24.17	24.23	24.28
	64QAM	50	0	23.29	23.19	23.24	23.23	23.23	23.20	23.22	23.25	23.23	23.17	23.28	23.26
		1	0	22.76	22.64	22.70	22.89	22.71	22.86	22.60	22.87	22.72	22.76	22.74	22.69
		1	1	22.78	22.67	22.77	22.76	22.86	22.82	22.77	22.84	22.66	22.64	22.65	22.85
		1	50	22.67	22.74	22.66	22.66	22.71	22.67	22.67	22.87	22.73	22.60	22.84	22.74
		1	51	22.66	22.66	22.60	22.65	22.50	22.84	22.74	22.73	22.64	22.59	22.61	22.76
		25	12	22.69	22.82	22.76	22.74	22.74	22.73	22.72	22.73	22.77	22.65	22.74	22.71
	256QAM	50	0	22.70	22.78	22.75	22.73	22.78	22.71	22.73	22.78	22.82	22.68	22.74	22.74
		1	0	20.69	20.73	20.81	20.76	20.83	20.78	20.71	20.77	20.66	20.69	20.71	20.67
		1	1	20.76	20.78	20.67	20.70	20.71	20.69	20.78	20.62	20.76	20.72	20.69	20.71
		1	50	20.65	20.69	20.78	20.84	20.63	20.77	20.65	20.81	20.67	20.55	20.68	20.91
		1	51	20.50	20.70	20.72	20.75	20.60	20.72	20.53	20.77	20.70	20.50	20.61	20.71
		25	12	20.73	20.74	20.71	20.78	20.72	20.67	20.63	20.79	20.77	20.66	20.66	20.79
		50	0	20.74	20.77	20.72	20.78	20.71	20.70	20.67	20.83	20.82	20.64	20.69	20.80

OUTPUT POWER FOR 5G NR n66 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				343500	349000	354500	343500	349000	354500	343500	349000	354500	343500	349000	354500
15.0	BPSK	1	0	1717.5	1745.0	1772.5	1717.5	1745.0	1772.5	1717.5	1745.0	1772.5	1717.5	1745.0	1772.5
		1	1	25.68	25.67	25.61	25.70	25.70	25.68	25.69	25.70	25.70	25.67	25.63	25.70
		1	77	25.49	25.56	25.49	25.51	25.64	25.63	25.60	25.53	25.63	25.44	25.62	25.60
		1	78	25.42	25.50	25.43	25.36	25.58	25.57	25.44	25.46	25.49	25.29	25.53	25.48
		36	18	25.55	25.62	25.50	25.53	25.54	25.59	25.47	25.53	25.60	25.50	25.61	25.59
		75	0	25.35	25.46	25.42	25.43	25.37	25.48	25.37	25.45	25.47	25.38	25.47	25.42
		1	0	25.39	25.38	25.38	25.38	25.46	25.39	25.33	25.38	25.32	25.34	25.35	25.40
		1	1	25.70	25.70	25.70	25.67	25.60	25.70	25.70	25.68	25.60	25.70	25.70	25.65
	QPSK	1	77	25.49	25.53	25.58	25.56	25.59	25.68	25.59	25.54	25.58	25.42	25.70	25.61
		1	78	25.18	25.26	25.24	25.25	25.22	25.36	25.29	25.25	25.29	25.10	25.33	25.30
		36	18	25.52	25.65	25.56	25.53	25.56	25.63	25.48	25.62	25.70	25.49	25.62	25.64
		75	0	25.23	25.30	25.24	25.29	25.27	25.36	25.24	25.25	25.32	25.19	25.35	25.29
		1	0	23.22	23.31	23.23	23.38	23.29	23.37	23.20	23.40	23.33	23.22	23.26	23.14
		1	1	24.13	24.31	24.32	24.23	24.34	24.25	24.18	24.32	24.14	24.23	24.26	24.21
		1	77	24.17	24.28	24.05	24.11	24.09	24.18	24.15	24.06	24.30	24.00	24.23	24.33
		1	78	23.37	23.33	23.03	23.18	23.16	23.25	23.11	23.13	23.24	22.97	23.39	23.15
	16QAM	36	18	24.19	24.12	24.10	24.11	24.08	24.16	24.18	24.10	24.19	24.08	24.18	24.10
		75	0	23.11	23.10	23.17	23.17	23.17	23.23	23.15	23.16	23.20	23.06	23.22	23.18
		1	0	22.75	22.81	22.64	22.74	22.66	22.79	22.75	22.85	22.91	22.66	22.73	22.82
		1	1	22.77	22.75	22.60	22.80	22.78	22.63	22.75	22.84	22.68	22.86	22.86	22.75
		1	77	22.54	22.79	22.52	22.62	22.69	22.86	22.65	22.71	22.80	22.52	22.89	22.70
		1	78	22.74	22.59	22.56	22.75	22.74	22.73	22.76	22.58	22.81	22.55	22.81	19.51
		36	18	22.65	22.55	22.63	22.58	22.61	22.70	22.70	22.61	22.66	22.50	22.68	22.63
		75	0	22.71	22.65	22.60	22.65	22.63	22.69	22.61	22.64	22.68	22.56	22.69	22.64
	64QAM	1	0	20.83	20.77	20.80	20.78	20.61	20.67	20.73	20.77	20.70	20.49	20.73	20.68
		1	1	20.73	20.69	20.78	20.64	20.71	20.79	20.72	20.68	20.80	20.80	21.00	20.73
		1	77	20.56	20.67	20.67	20.56	20.72	20.65	20.71	20.65	20.69	20.48	20.90	20.61
		1	78	20.51	20.58	20.54	20.66	20.57	20.81	20.71	20.71	20.70	20.37	20.71	20.47
		36	18	20.66	20.66	20.53	20.59	20.55	20.66	20.61	20.60	20.59	20.50	20.66	20.55
		75	0	20.59	20.65	20.59	20.56	20.56	20.71	20.60	20.60	20.63	20.52	20.65	20.62

OUTPUT POWER FOR 5G NR n66 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				344000	349000	354000	344000	349000	354000	344000	349000	354000	344000	349000	354000
20.0	BPSK	1	0	1720.0	1745.0	1770.0	1720.0	1745.0	1770.0	1720.0	1745.0	1770.0	1720.0	1745.0	1770.0
		1	1	25.62	25.56	25.48	25.59	25.55	25.53	25.55	25.63	25.61	25.65	25.50	25.56
		1	104	25.66	25.65	25.58	25.60	25.63	25.70	25.57	25.56	25.65	25.58	25.66	25.58
		1	105	25.58	25.59	25.45	25.51	25.63	25.56	25.50	25.60	25.59	25.46	25.63	25.57
		50	25	25.67	25.57	25.58	25.62	25.57	25.66	25.61	25.62	25.70	25.64	25.62	25.64
		100	0	25.70	25.63	25.54	25.64	25.62	25.67	25.67	25.70	25.70	25.65	25.63	25.70
	QPSK	1	0	25.43	25.36	25.33	25.41	25.45	25.45	25.36	25.45	25.35	25.54	25.42	25.46
		1	1	25.70	25.60	25.70	25.68	25.70	25.67	25.70	25.64	25.62	25.65	25.56	25.68
		1	104	25.59	25.70	25.53	25.58	25.69	25.67	25.62	25.63	25.68	25.56	25.70	25.59
		1	105	25.38	25.29	25.22	25.32	25.48	25.45	25.36	25.35	25.44	25.16	25.33	25.41
		50	25	25.68	25.56	25.50	25.70	25.63	25.64	25.70	25.61	25.66	25.65	25.65	25.66
		100	0	25.53	25.42	25.41	25.46	25.48	25.53	25.47	25.46	25.58	25.48	25.47	25.45
	16QAM	1	0	23.48	23.25	23.20	23.26	23.20	23.23	23.21	23.26	23.12	23.37	23.27	23.29
		1	1	24.44	24.17	24.28	24.35	24.32	24.20	24.17	24.24	24.12	24.27	24.13	24.26
		1	104	24.30	24.34	24.15	24.19	24.34	24.16	24.40	24.13	24.10	24.29	24.26	24.16
		1	105	23.26	23.21	23.10	23.38	23.15	23.27	23.21	23.16	23.12	22.93	23.29	23.16
		50	25	24.35	24.14	24.17	24.22	24.23	24.27	24.29	24.27	24.30	24.23	24.19	24.25
		100	0	23.40	23.25	23.19	23.26	23.27	23.29	23.31	23.25	23.35	23.26	23.24	23.28
	64QAM	1	0	22.86	22.74	22.82	22.89	22.68	22.80	22.59	22.82	22.73	22.99	22.80	22.75
		1	1	22.92	22.61	22.65	22.69	22.79	22.73	22.81	22.71	22.89	22.62	22.84	22.86
		1	104	22.71	22.68	22.52	22.61	22.82	22.81	22.73	22.76	22.85	22.65	22.69	22.81
		1	105	22.89	23.00	22.62	22.63	22.70	22.62	22.68	22.59	22.78	22.76	22.78	22.82
		50	25	22.84	22.64	22.65	22.77	22.72	22.74	22.81	22.77	22.76	22.75	22.75	22.74
		100	0	22.81	22.78	22.68	22.72	22.72	22.80	22.82	22.76	22.78	22.78	22.71	22.75
	256QAM	1	0	20.85	20.58	20.82	20.66	20.80	20.73	20.53	20.81	20.74	21.02	20.43	20.72
		1	1	20.79	20.64	20.70	20.67	20.70	20.60	20.65	20.76	20.81	20.98	20.55	20.58
		1	104	20.52	20.66	20.55	20.70	20.84	20.57	20.70	20.66	20.93	20.47	20.38	20.80
		1	105	20.92	20.52	20.38	20.74	20.87	20.86	20.63	20.93	20.73	20.53	20.42	20.81
		50	25	20.79	20.78	20.58	20.71	20.70	20.69	20.73	20.70	20.78	20.70	20.51	20.84
		100	0	20.79	20.80	20.58	20.76	20.68	20.78	20.77	20.77	20.79	20.72	20.50	20.70

OUTPUT POWER FOR 5G NR n66 (25.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				344500	349000	353500	344500	349000	353500	344500	349000	353500	344500	349000	353500
25.0	BPSK	1	0	25.49	25.37	25.58	25.63	25.51	25.55	25.55	25.70	25.58	25.59	25.54	25.57
		1	1	25.70	25.70	25.70	25.70	25.63	25.67	25.63	25.68	25.70	25.65	25.70	25.70
		1	131	25.31	25.39	25.70	25.57	25.61	25.60	25.51	25.67	25.58	25.37	25.69	25.62
		1	132	25.19	25.31	25.55	25.50	25.50	25.70	25.44	25.48	25.47	25.23	25.55	25.61
		64	32	25.34	25.38	25.51	25.56	25.50	25.53	25.45	25.63	25.51	25.41	25.61	25.59
		128	0	25.27	25.19	25.38	25.41	25.44	25.47	25.46	25.46	25.35	25.32	25.50	25.47
	QPSK	1	0	25.27	25.26	25.38	25.35	25.39	25.22	25.29	25.46	25.34	25.40	25.37	25.30
		1	1	25.58	25.52	25.63	25.63	25.70	25.54	25.70	25.67	25.67	25.70	25.70	25.66
		1	131	25.43	25.46	25.61	25.56	25.62	25.67	25.55	25.66	25.61	25.35	25.53	25.70
		1	132	24.98	25.18	25.31	25.11	25.34	25.36	25.25	25.37	25.38	25.03	25.29	25.37
		64	32	25.32	25.34	25.48	25.52	25.43	25.47	25.46	25.66	25.43	25.41	25.54	25.60
		128	0	25.06	25.06	25.29	25.25	25.18	25.20	25.28	25.32	25.21	25.16	25.27	25.34
	16QAM	1	0	23.13	23.10	23.29	23.31	23.25	23.30	23.34	23.52	23.27	23.57	23.49	23.25
		1	1	24.12	24.07	24.35	24.32	24.11	24.19	24.22	24.32	24.25	24.27	24.27	24.23
		1	131	24.09	24.02	24.37	24.14	24.14	24.28	24.15	24.08	24.18	23.99	24.34	24.25
		1	132	22.71	22.99	23.17	23.08	23.16	23.23	23.21	23.04	23.26	22.78	22.95	23.18
		64	32	23.98	23.95	24.09	24.07	24.14	24.03	24.14	24.26	24.15	24.02	24.08	24.16
		128	0	22.97	23.04	23.09	23.16	23.11	23.12	23.10	23.35	23.22	23.01	23.18	23.20
	64QAM	1	0	22.71	22.73	22.78	22.85	22.72	22.71	22.93	23.10	22.69	22.78	22.89	22.63
		1	1	22.42	22.44	22.60	22.70	22.69	22.70	22.80	22.76	22.86	22.81	22.86	22.90
		1	131	22.30	22.61	22.79	22.69	22.64	22.64	22.44	22.81	22.65	22.41	22.81	22.96
		1	132	22.24	22.60	22.51	22.84	22.50	22.88	22.47	22.68	22.43	22.40	22.72	22.92
		64	32	22.34	22.54	22.71	22.64	22.57	22.56	22.71	22.80	22.68	22.54	22.66	22.73
		128	0	22.40	22.48	22.68	22.57	22.61	22.57	22.64	22.77	22.71	22.51	22.68	22.67
	256QAM	1	0	20.68	20.63	20.77	20.66	20.72	20.62	20.91	20.76	20.71	20.71	20.86	20.68
		1	1	20.41	20.58	20.70	20.47	20.72	20.63	20.73	20.96	20.62	20.68	20.76	20.88
		1	131	20.42	20.41	20.77	20.63	20.51	20.66	20.62	20.81	20.69	20.46	20.87	20.60
		1	132	20.42	20.46	20.79	20.59	20.49	20.85	20.59	20.82	20.75	20.42	20.66	20.37
		64	32	20.44	20.39	20.61	20.60	20.55	20.52	20.66	20.75	20.66	20.48	20.75	20.62
		128	0	20.43	20.41	20.67	20.55	20.55	20.55	20.65	20.72	20.65	20.52	20.64	20.67

OUTPUT POWER FOR 5G NR n66 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				345000	349000	353000	345000	349000	353000	345000	349000	353000	345000	349000	353000
30.0	BPSK	1	0	25.66	25.38	25.40	25.51	25.58	25.36	25.56	25.54	25.53	25.63	25.54	25.41
		1	1	25.61	25.57	25.57	25.62	25.56	25.55	25.68	25.70	25.55	25.70	25.66	25.57
		1	158	25.64	25.59	25.62	25.70	25.68	25.70	25.63	25.61	25.66	25.46	25.70	25.62
		1	159	25.62	25.58	25.52	25.59	25.52	25.60	25.69	25.58	25.66	25.31	25.58	25.59
		80	40	25.62	25.39	25.55	25.50	25.50	25.50	25.57	25.49	25.55	25.49	25.52	25.59
		160	0	25.44	25.35	25.45	25.43	25.45	25.46	25.57	25.42	25.47	25.43	25.47	25.48
	QPSK	1	0	25.41	25.26	25.20	25.15	25.19	25.14	25.39	25.40	25.36	25.34	25.34	25.34
		1	1	25.70	25.56	25.49	25.50	25.63	25.59	25.70	25.57	25.62	25.70	25.64	25.53
		1	158	25.67	25.70	25.70	25.69	25.70	25.69	25.65	25.64	25.70	25.48	25.68	25.70
		1	159	25.47	25.33	25.33	25.25	25.37	25.29	25.37	25.43	25.40	25.09	25.47	25.45
		80	40	25.53	25.41	25.56	25.44	25.53	25.55	25.64	25.56	25.58	25.41	25.57	25.57
		160	0	25.25	25.16	25.35	25.20	25.32	25.26	25.29	25.25	25.31	25.23	25.29	25.27
	16QAM	1	0	23.39	23.13	23.00	23.12	23.28	23.11	23.33	23.28	23.33	23.40	23.07	23.06
		1	1	24.18	24.09	24.21	24.30	24.15	24.20	24.31	24.32	24.36	24.30	24.30	24.15
		1	158	24.20	24.33	24.47	24.25	24.28	24.35	24.27	24.24	24.31	24.18	24.55	24.37
		1	159	23.26	23.24	23.33	23.24	23.17	23.42	22.97	23.22	23.34	22.91	23.30	23.15
		80	40	24.08	24.04	24.15	24.12	24.11	24.12	24.09	24.15	24.15	24.11	24.17	24.14
		160	0	23.24	23.11	23.15	23.10	23.16	23.19	23.14	23.15	23.13	23.10	23.21	23.20
	64QAM	1	0	22.75	22.66	22.66	22.66	22.75	22.67	22.77	22.55	22.71	22.81	22.76	22.62
		1	1	22.70	22.68	22.67	22.58	22.91	22.49	22.82	22.75	22.90	22.67	22.52	22.58
		1	158	22.61	22.63	22.80	22.58	22.91	22.98	22.83	22.60	22.66	22.53	22.84	22.86
		1	159	22.71	22.83	22.79	22.85	22.83	22.73	22.78	22.51	22.67	22.57	22.90	22.42
		80	40	22.71	22.54	22.68	22.57	22.67	22.59	22.74	22.65	22.62	22.62	22.69	22.69
		160	0	22.75	22.57	22.67	22.65	22.66	22.67	22.69	22.68	22.67	22.58	22.67	22.67
	256QAM	1	0	20.92	20.67	20.76	20.65	20.94	20.39	20.86	20.89	20.71	21.04	20.84	20.57
		1	1	20.81	20.75	20.79	20.82	20.74	20.82	20.84	20.84	20.73	20.78	20.75	20.82
		1	158	20.55	20.38	20.58	20.59	20.75	20.58	20.66	20.62	20.69	20.43	20.75	20.60
		1	159	20.51	20.51	20.90	20.67	20.66	20.42	20.76	20.42	20.60	20.30	20.60	20.84
		80	40	20.68	20.55	20.56	20.50	20.62	20.56	20.73	20.74	20.67	20.55	20.73	20.64
		160	0	20.71	20.49	20.61	20.61	20.63	20.64	20.72	20.70	20.72	20.56	20.67	20.62

OUTPUT POWER FOR 5G NR n66 (35.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				345500	349000	352500	345500	349000	352500	345500	349000	352500	345500	349000	352500
35.0	BPSK	1	0	25.55	25.70	25.54	25.20	25.52	25.41	25.56	25.52	25.60	25.62	25.53	25.58
		1	1	25.60	25.61	25.54	25.18	25.55	25.43	25.54	25.67	25.47	25.70	25.56	25.61
		1	186	25.55	25.66	25.62	25.51	25.62	25.58	25.47	25.62	25.68	25.40	25.56	22.55
		1	187	25.53	25.59	25.57	25.70	25.65	25.59	25.42	25.59	25.70	25.48	25.57	25.70
		90	45	25.56	25.67	25.57	25.55	25.52	25.47	25.62	25.63	25.64	25.48	25.56	25.67
		180	0	25.47	25.60	25.53	25.55	25.56	25.53	25.51	25.55	25.58	25.47	25.49	25.56
	QPSK	1	0	25.40	25.47	25.33	25.35	25.30	25.27	25.42	25.29	25.49	25.55	25.41	25.31
		1	1	25.70	25.65	25.46	25.54	25.48	25.31	25.48	25.47	25.61	25.50	25.55	25.69
		1	186	25.64	25.70	25.70	25.64	25.70	25.70	25.46	25.70	25.67	25.50	25.70	25.66
		1	187	25.24	25.57	25.37	25.32	25.49	25.39	25.36	25.41	25.45	25.20	25.36	25.60
		90	45	25.58	25.65	25.59	25.61	25.67	25.57	25.70	25.62	25.59	25.60	25.56	25.67
		180	0	25.35	25.41	25.41	25.35	25.43	25.30	25.35	25.35	25.39	25.22	25.30	25.41
	16QAM	1	0	23.35	23.36	23.24	23.09	23.26	23.28	23.07	23.25	23.05	23.37	23.08	23.16
		1	1	24.62	24.29	24.08	24.23	24.40	24.25	24.22	24.28	24.19	24.42	24.46	24.36
		1	186	24.36	24.38	24.43	24.14	24.44	24.20	24.15	24.09	24.65	24.08	24.39	24.49
		1	187	23.33	23.37	23.03	23.22	23.42	23.27	23.33	23.40	23.46	22.88	23.20	23.36
		90	45	24.18	21.05	24.18	24.18	24.20	24.19	24.17	24.12	24.27	24.12	24.16	24.27
		180	0	23.16	23.35	23.25	23.25	23.29	23.15	23.23	23.29	23.27	23.15	23.23	23.33
	64QAM	1	0	22.84	22.76	22.69	22.73	23.01	22.44	22.98	22.87	23.00	22.74	22.87	22.49
		1	1	22.59	22.89	22.71	22.79	22.89	22.64	22.86	22.68	22.77	22.89	22.70	22.81
		1	186	22.69	22.91	22.68	22.94	22.81	22.68	22.96	22.82	22.88	22.77	22.72	22.76
		1	187	22.84	22.80	22.69	22.87	22.97	22.84	22.96	22.54	23.00	22.37	22.80	23.00
		90	45	22.62	22.81	22.71	22.74	22.75	22.72	22.68	22.73	22.76	22.64	22.70	22.80
		180	0	22.61	22.85	22.72	22.77	22.77	22.64	22.69	22.82	22.77	22.63	22.72	22.77
	256QAM	1	0	20.71	20.83	20.57	20.84	20.59	20.79	20.67	20.31	20.89	20.94	20.78	20.73
		1	1	20.83	20.92	20.67	20.88	20.66	20.42	20.69	20.65	20.99	20.63	20.84	20.82
		1	186	20.72	20.83	20.79	20.71	20.64	20.71	20.45	20.77	20.67	20.22	20.67	20.64
		1	187	20.60	20.78	20.41	20.81	20.59	20.45	20.60	20.43	20.73	20.60	20.63	20.76
		90	45	20.60	20.75	20.67	20.82	20.72	20.61	20.71	20.80	20.82	20.57	20.67	20.79
		180	0	20.69	20.79	20.75	20.72	20.73	20.64	20.62	20.84	20.83	20.62	20.66	20.72

OUTPUT POWER FOR 5G NR n66 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				346000	349000	352000	346000	349000	352000	346000	349000	352000	346000	349000	352000
40.0	BPSK	1	0	25.51	25.51	25.42	25.37	25.34	25.32	25.49	25.62	25.55	25.56	25.47	25.40
		1	1	25.69	25.49	25.58	25.67	25.54	25.55	25.46	25.68	25.59	25.70	25.65	25.47
		1	214	25.66	25.69	25.64	25.59	25.63	25.70	25.70	25.61	25.70	25.55	25.70	25.68
		1	215	25.60	25.58	25.70	25.50	25.57	25.61	25.30	25.59	25.53	25.48	25.62	25.70
		108	54	25.64	25.41	25.43	25.46	25.47	25.34	25.45	25.47	25.49	25.51	25.53	25.54
		216	0	25.57	25.49	25.48	25.49	25.57	25.54	25.43	25.55	25.58	25.53	25.60	25.55
	QPSK	1	0	25.49	25.30	25.21	25.25	25.34	25.25	25.14	25.29	25.36	25.37	25.50	25.24
		1	1	25.70	25.55	25.44	25.70	25.54	25.34	25.52	25.58	25.59	25.70	25.65	25.67
		1	214	25.59	25.70	25.67	25.66	25.70	25.64	25.53	25.70	25.68	25.50	25.61	25.64
		1	215	25.26	25.20	25.31	25.42	25.34	25.31	25.11	25.40	25.37	25.21	25.32	25.44
		108	54	25.61	25.43	25.49	25.52	25.55	25.44	25.44	25.56	25.59	25.54	25.57	25.52
		216	0	25.33	25.26	25.28	25.38	25.42	25.29	25.18	25.41	25.42	25.40	25.46	25.36
	16QAM	1	0	23.39	22.95	23.18	23.26	23.18	23.17	23.10	23.20	23.18	23.11	23.09	23.02
		1	1	24.24	24.09	24.16	24.40	24.17	24.14	24.22	24.20	24.36	24.30	24.12	24.34
		1	214	24.36	24.24	24.30	24.21	24.18	24.19	24.08	24.16	24.36	24.19	24.28	24.31
		1	215	23.41	23.34	23.32	23.22	23.00	23.35	23.16	23.38	23.30	23.20	23.27	23.38
		108	54	24.18	24.01	24.11	24.12	24.15	24.02	24.09	24.15	24.16	24.16	24.18	24.12
		216	0	23.28	23.11	23.09	23.15	23.20	23.13	23.01	23.17	23.17	23.20	23.21	23.14
	64QAM	1	0	22.92	22.64	22.68	22.54	22.74	22.35	22.57	22.59	22.61	22.93	22.91	22.40
		1	1	22.89	22.53	22.60	22.82	22.79	22.74	22.70	22.51	22.79	22.66	22.84	22.75
		1	214	22.67	22.67	22.82	22.84	22.65	22.60	22.69	22.85	22.74	22.52	22.67	22.69
		1	215	22.56	22.75	22.97	22.56	22.53	22.85	22.47	22.63	22.66	22.73	22.64	22.94
		108	54	22.71	22.51	22.61	22.63	22.60	22.61	22.60	22.68	22.66	22.63	22.69	22.62
		216	0	22.78	22.57	22.64	22.62	22.62	22.65	22.59	22.68	22.70	22.65	22.66	22.66
	256QAM	1	0	20.90	20.61	20.50	20.54	20.46	20.66	20.61	20.92	20.46	20.72	20.50	20.55
		1	1	20.91	20.81	20.43	20.69	20.76	20.59	20.69	20.76	20.61	20.79	21.02	20.64
		1	214	20.44	20.12	20.51	20.58	20.58	20.44	20.56	20.53	20.51	20.59	20.55	20.86
		1	215	20.71	20.57	20.52	20.46	20.46	20.40	20.58	20.46	20.60	20.17	20.83	20.71
		108	54	20.73	20.61	20.61	20.69	20.64	20.56	20.57	20.72	20.63	20.60	20.60	20.58
		216	0	20.73	20.56	20.64	20.63	20.60	20.59	20.55	20.66	20.67	20.61	20.67	20.61

OUTPUT POWER FOR 5G NR n66 (45.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				346500	349000	351500	346500	349000	351500	346500	349000	351500	346500	349000	351500
45.0	BPSK	1	0	1732.5	1745.0	1757.5	1732.5	1745.0	1757.5	1732.5	1745.0	1757.5	1732.5	1745.0	1757.5
		1	1	25.43	25.33	25.54	25.53	25.61	25.43	25.32	25.58	25.42	25.70	25.64	25.45
		1	1	25.70	25.41	25.49	25.65	25.57	25.45	25.46	25.63	25.53	25.56	25.69	25.57
		1	240	25.65	25.70	25.59	25.53	25.69	25.70	25.55	25.68	25.68	25.41	25.70	25.70
		1	241	25.48	25.29	25.56	25.53	25.46	25.63	25.33	25.58	25.48	25.57	25.64	25.63
		120	60	25.35	25.24	25.40	25.40	25.42	25.41	25.32	25.47	25.43	25.29	25.48	25.45
	QPSK	240	0	25.54	25.42	25.59	25.61	25.66	25.61	25.53	25.70	25.70	25.49	25.70	25.65
		1	0	25.37	25.11	25.23	25.42	25.47	25.26	25.17	25.26	25.25	25.40	25.49	25.22
		1	1	25.44	25.51	25.35	25.60	25.70	25.48	25.70	25.68	25.46	25.70	25.51	25.66
		1	240	25.65	25.49	25.70	25.70	25.59	25.69	25.56	25.65	25.67	25.59	25.57	25.66
		1	241	25.26	25.37	25.39	25.24	25.30	25.28	25.35	25.40	25.50	25.20	25.22	25.27
		120	60	25.39	25.32	25.38	25.43	25.50	25.39	25.29	25.50	25.48	25.41	25.43	25.46
	16QAM	240	0	25.37	25.30	25.41	25.42	25.42	25.37	25.34	25.52	25.50	25.38	25.45	25.42
		1	0	23.23	22.95	23.08	23.23	23.13	23.04	22.98	23.24	23.19	22.95	23.33	23.22
		1	1	24.16	24.20	23.98	23.85	24.37	24.34	24.28	24.12	24.13	24.36	24.13	24.06
		1	240	24.16	23.95	24.13	24.10	24.23	24.30	24.10	24.29	24.31	23.81	24.25	24.25
		1	241	23.41	23.32	23.35	23.20	23.43	23.27	23.10	23.46	23.42	23.16	23.34	23.23
		120	60	23.99	24.06	24.14	24.11	24.18	24.06	24.03	24.33	24.15	24.12	24.15	24.15
	64QAM	240	0	23.16	23.28	23.28	23.34	23.34	23.33	23.22	23.35	23.36	23.32	23.29	23.34
		1	0	22.68	22.86	22.68	22.75	22.95	22.50	22.41	22.73	22.66	22.74	22.86	22.77
		1	1	22.52	22.69	22.56	23.05	22.62	22.84	22.58	22.53	22.68	22.72	22.77	22.55
		1	240	22.49	22.77	22.86	22.90	22.62	22.80	22.87	23.00	22.66	22.49	23.01	22.56
		1	241	22.63	22.83	22.87	22.61	22.69	22.82	22.52	22.78	22.67	22.56	22.60	22.56
		120	60	22.62	22.60	22.64	22.73	22.66	22.66	22.56	22.78	22.70	22.60	22.67	22.65
	256QAM	240	0	22.73	22.78	22.78	22.89	22.78	22.76	22.69	22.91	22.82	22.80	22.82	22.78
		1	0	21.85	22.23	21.82	22.02	21.82	22.13	21.75	21.92	21.81	21.56	21.96	21.81
		1	1	21.95	21.72	21.55	21.95	21.59	22.03	21.79	21.66	21.83	21.96	21.89	21.77
		1	240	20.47	20.63	20.44	20.70	20.62	20.92	20.64	20.63	20.68	20.34	20.55	20.47
		1	241	20.68	20.55	20.50	20.83	20.68	20.52	20.53	20.63	20.41	20.35	20.66	20.62
		120	60	20.67	20.56	20.59	20.71	20.61	20.72	20.64	20.75	20.68	20.57	20.66	20.61
		240	0	20.84	20.73	20.73	20.86	20.75	20.86	20.65	20.87	20.82	20.80	20.78	20.76

9. CONDUCTED TEST RESULTS

9.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049
ISED: RSS139

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 were 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.

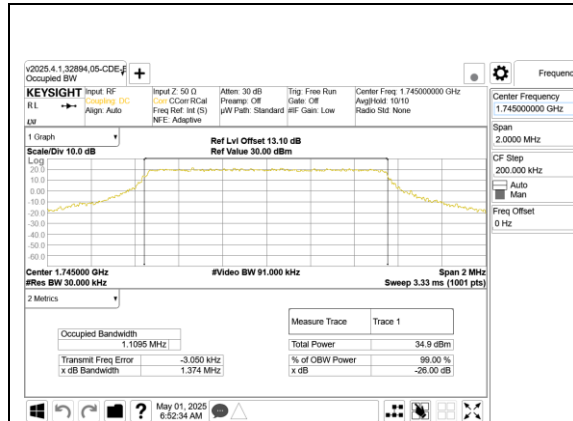
LTE BAND 66

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 66	1.4MHz, QPSK	6/0	1745.0	1.110	1.37
	1.4MHz, 16QAM			1.102	1.41
	3MHz, QPSK	15/0		2.697	3.04
	3MHz, 16QAM			2.700	3.06
	5MHz, QPSK	25/0		4.517	5.16
	5MHz, 16QAM			4.515	5.13
	10MHz, QPSK	50/0		9.012	10.13
	10MHz, 16QAM			9.015	10.08
	15MHz, QPSK	75/0		13.486	14.91
	15MHz, 16QAM			13.491	14.95
	20MHz, QPSK	100/0		18.004	19.62
	20MHz, 16QAM			18.005	19.78
	20MHz, QPSK	1/0		0.262	0.45

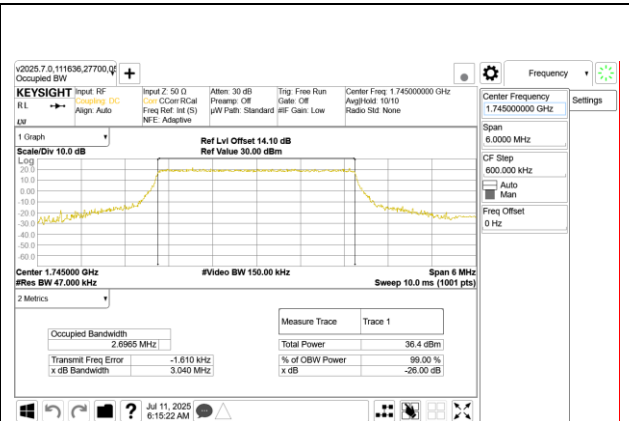
5G NR n66

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n66	5MHz, BPSK	25/0	1745.0	4.512	5.14
	5MHz, QPSK			4.506	5.20
	5MHz, 16QAM			4.511	5.31
	10MHz, BPSK	50/0		9.008	9.81
	10MHz, QPSK			9.004	9.90
	10MHz, 16QAM			8.976	9.99
	15MHz, BPSK	75/0		13.481	14.47
	15MHz, QPSK			13.490	14.52
	15MHz, 16QAM			13.514	14.66
	20MHz, BPSK	100/0		17.967	19.09
	20MHz, QPSK			17.937	19.16
	20MHz, 16QAM			17.968	19.15
	25MHz, BPSK	128/0		22.944	24.29
	25MHz, QPSK			23.009	24.44
	25MHz, 16QAM			22.933	24.41
	30MHz, BPSK	160/0		28.689	30.21
	30MHz, QPSK			28.711	30.19
	30MHz, 16QAM			28.667	30.28
	35MHz, BPSK	180/0		32.285	33.94
	35MHz, QPSK			32.213	34.00
	35MHz, 16QAM			32.252	34.13
	40MHz, BPSK	216/0		38.703	40.75
	40MHz, QPSK			38.697	40.82
	40MHz, 16QAM			38.629	40.78
	45MHz, BPSK	240/0		42.994	45.19
	45MHz, QPSK			43.030	45.28
	45MHz, 16QAM			42.995	45.20
	45MHz, BPSK	1/0		0.269	0.51

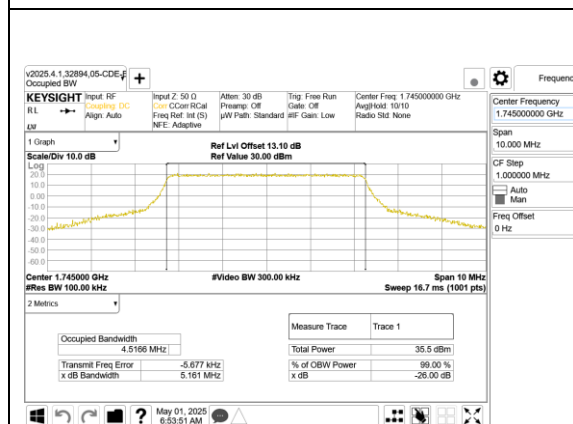
9.1.1. LTE BAND 66



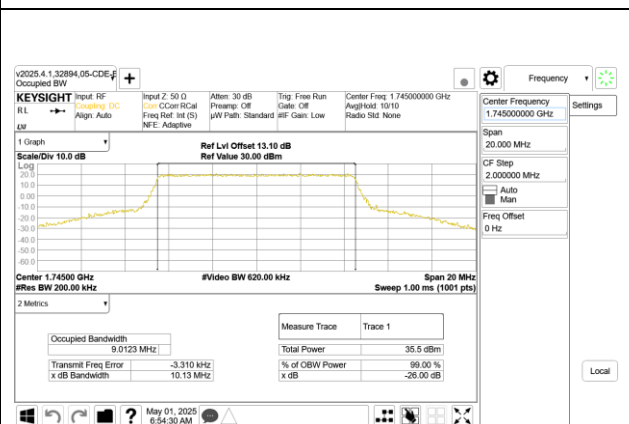
LTE B66 1.4MHz QPSK Middle Channel RB6-0



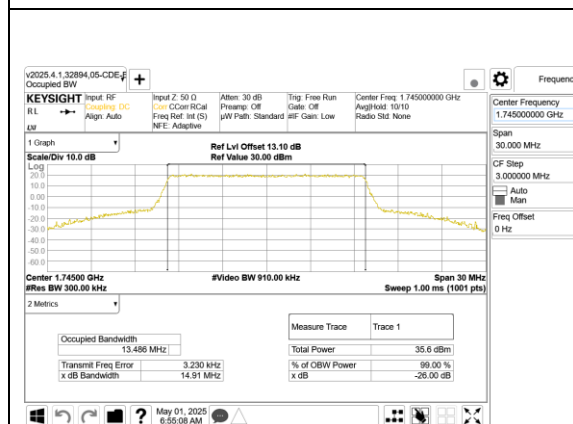
LTE B66 3MHz QPSK Middle Channel RB15-0



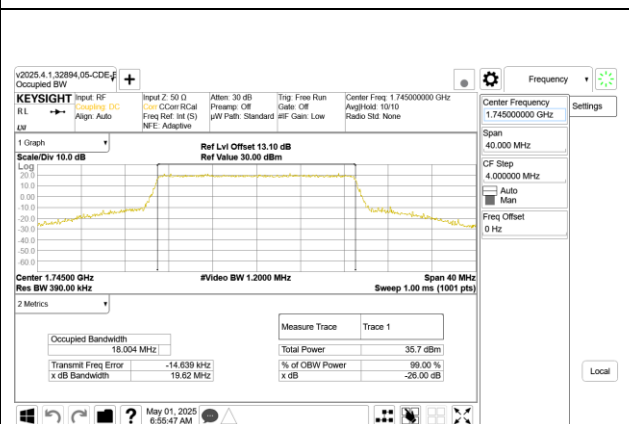
LTE B66 5MHz QPSK Middle Channel RB25-0



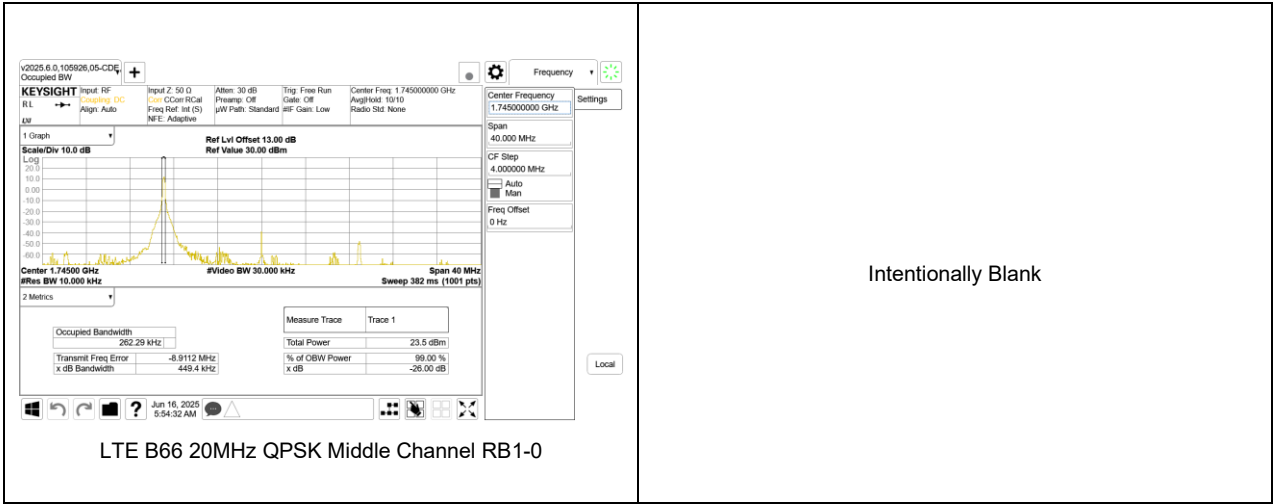
LTE B66 10MHz QPSK Middle Channel RB50-0



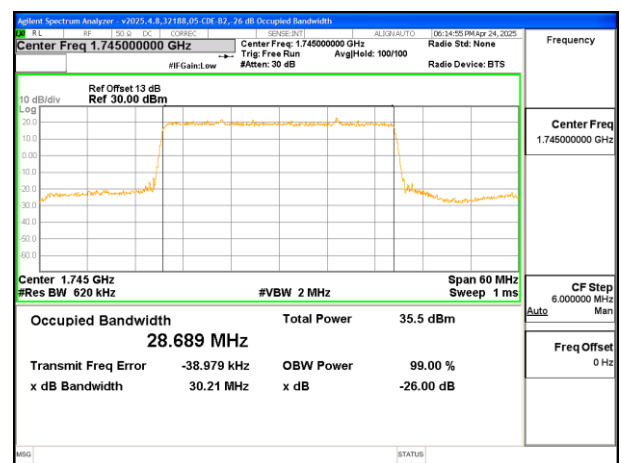
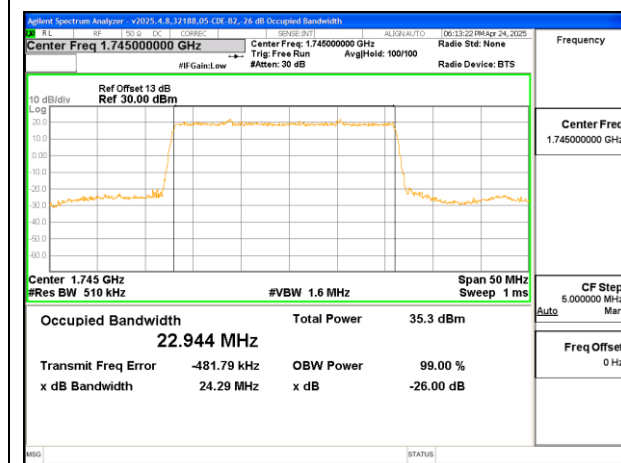
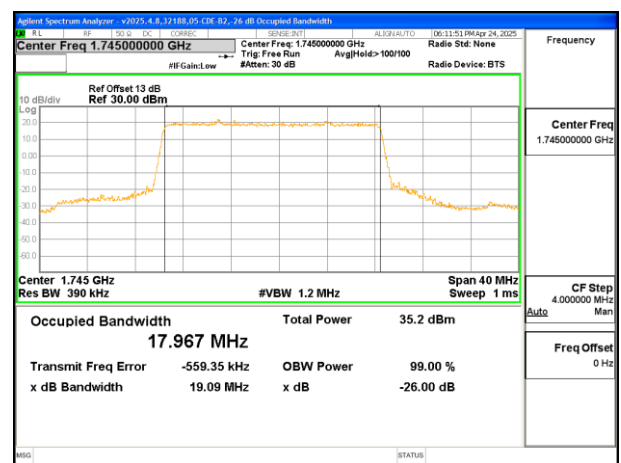
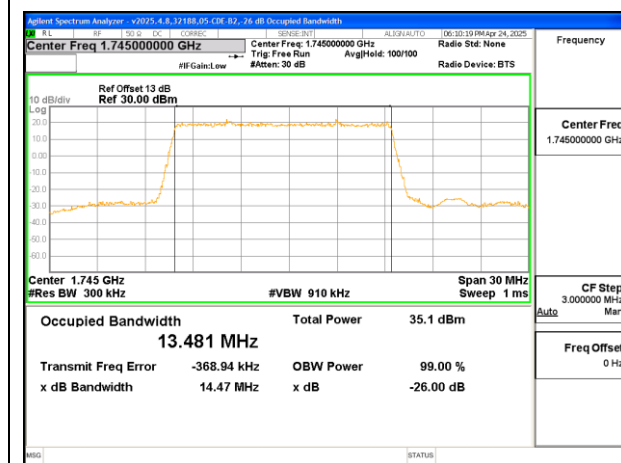
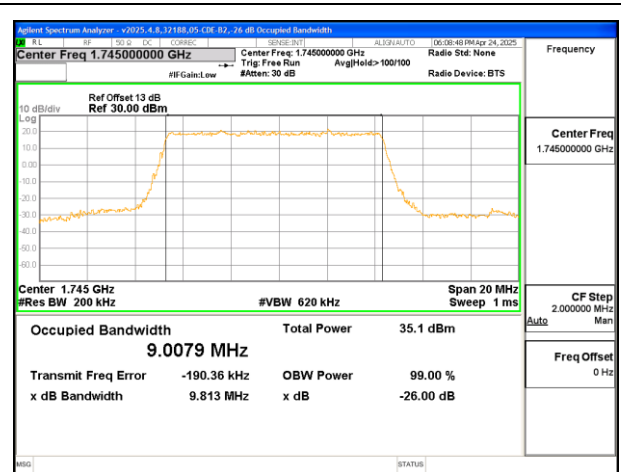
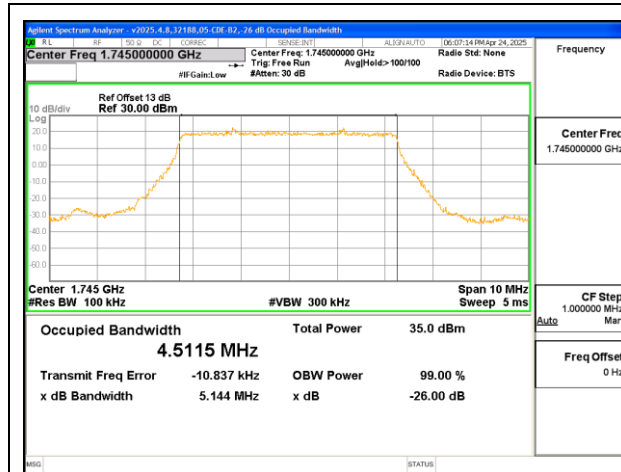
LTE B66 15MHz QPSK Middle Channel RB75-0

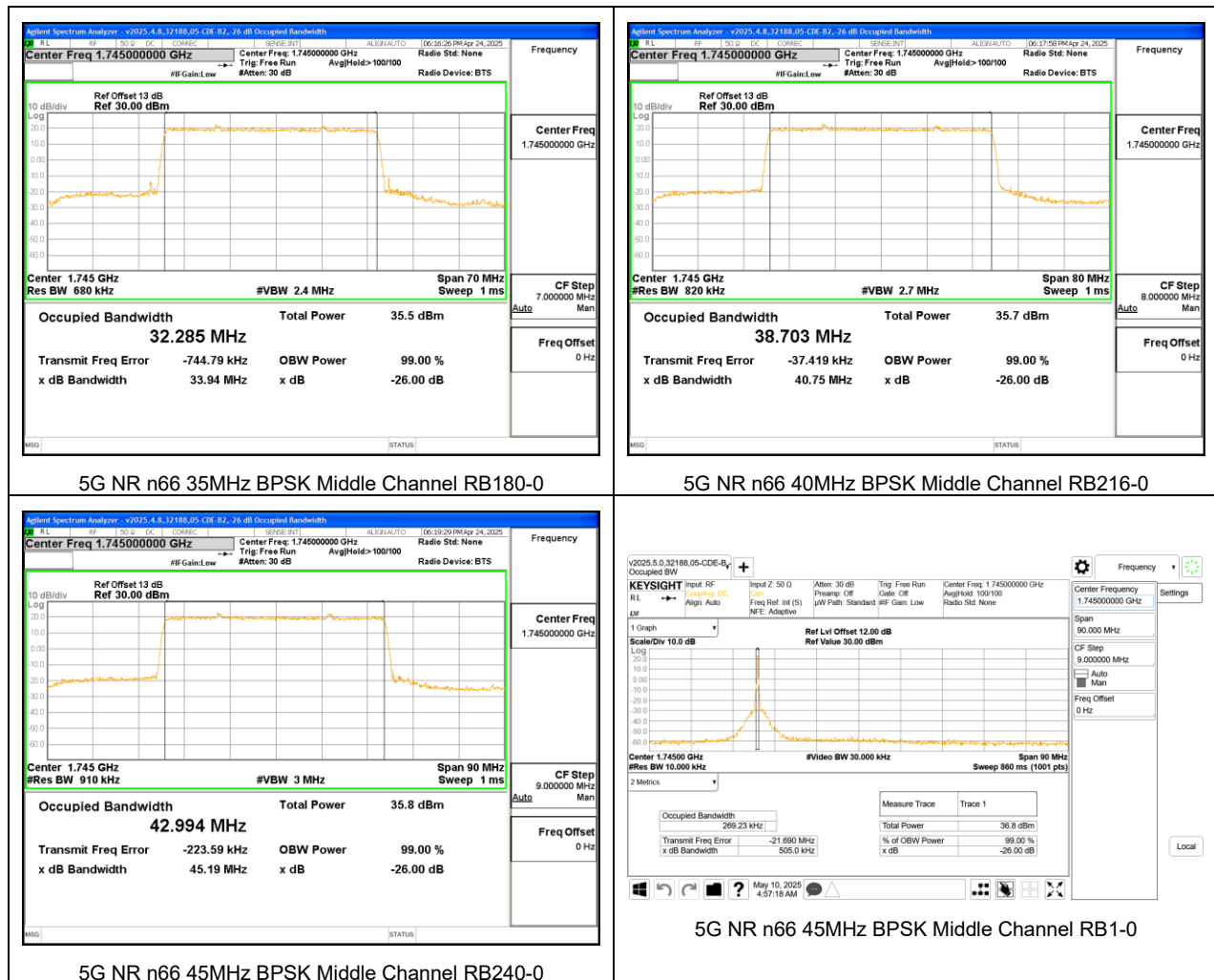


LTE B66 20MHz QPSK Middle Channel RB100-0



9.1.2. 5G NR n66





9.2. EMISSION MASK AND ADJACENT CHANNEL POWER

LIMITS

FCC: §27.53(h)

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

ISED: RSS139§5.6

Unwanted emissions shall be measured in terms of average values.

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors) of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in table 6.

Table 6: Unwanted emission limits	
Offset from the edge of the frequency block or frequency block group	Unwanted emission limits
≤1 MHz	-13 dBm/(1% of B*)
>1 MHz	-13 dBm/MHz

*B is the frequency block or frequency block group.

TEST PROCEDURE

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

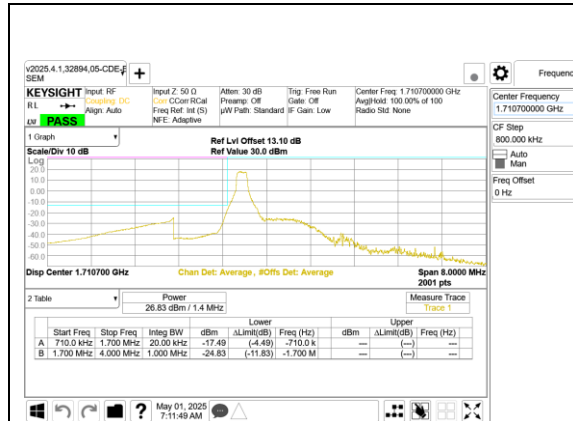
The transmitter output was connected to a base station simulator and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

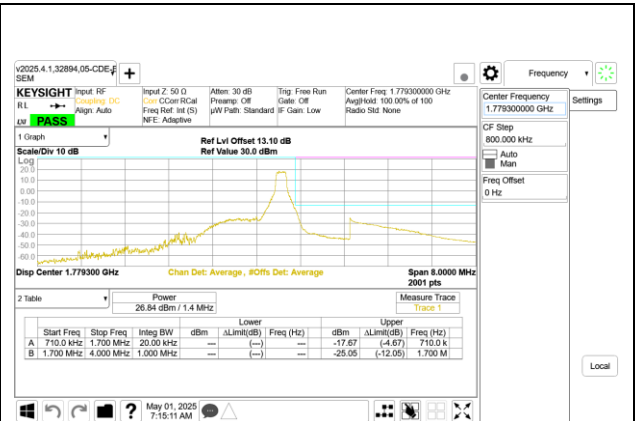
1. Set the spectrum analyzer span to include the block edge frequency.
2. Set a marker to point the corresponding band edge frequency in each test case.
3. Set display line at -13 dBm
4. Set resolution bandwidth to at least 1% of emission bandwidth.

RESULTS

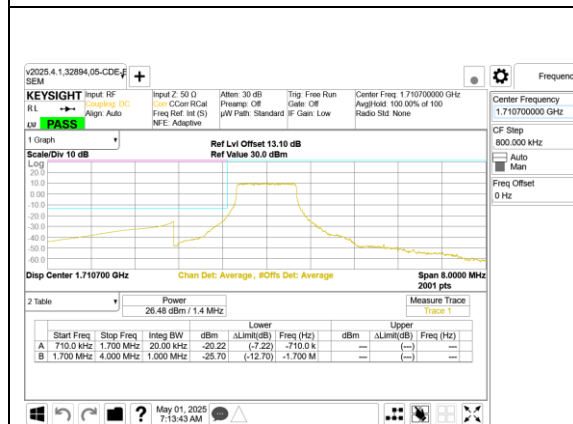
9.2.1. LTE BAND 66



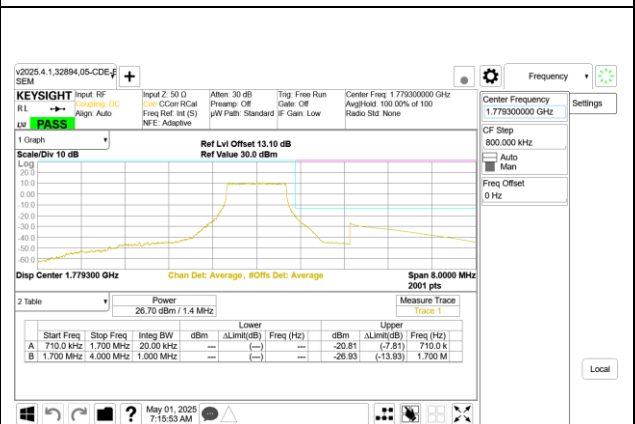
LTE B66 1.4MHz QPSK Low Channel RB1-0



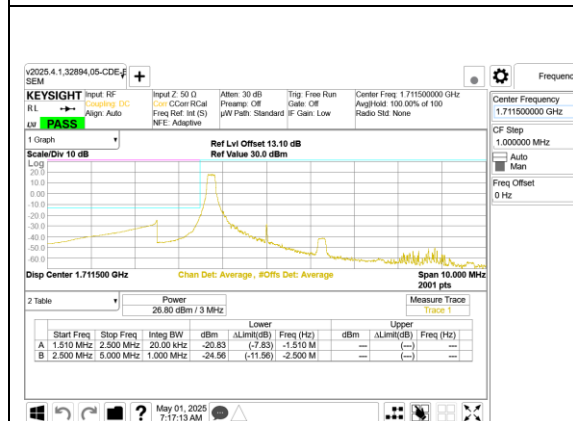
LTE B66 1.4MHz QPSK High Channel RB1-5



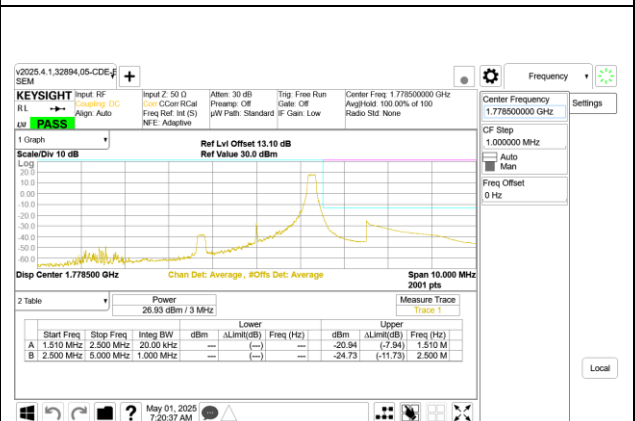
LTE B66 1.4MHz QPSK Low Channel RB6-0



LTE B66 1.4MHz QPSK High Channel RB6-0

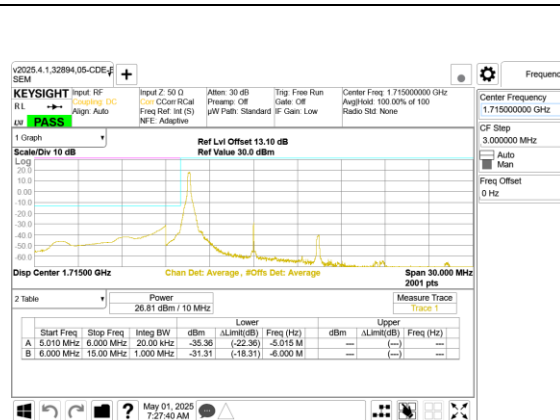


LTE B66 3MHz QPSK Low Channel RB1-0

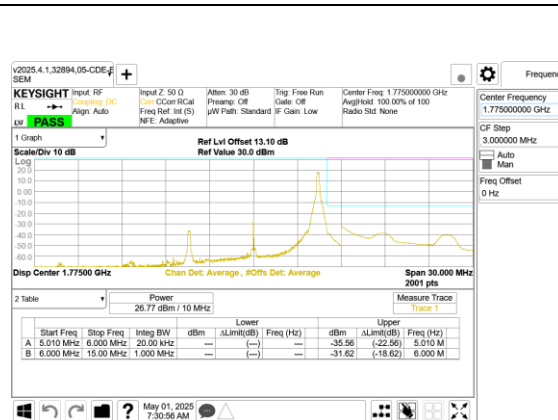


LTE B66 3MHz QPSK Low Channel RB1-14

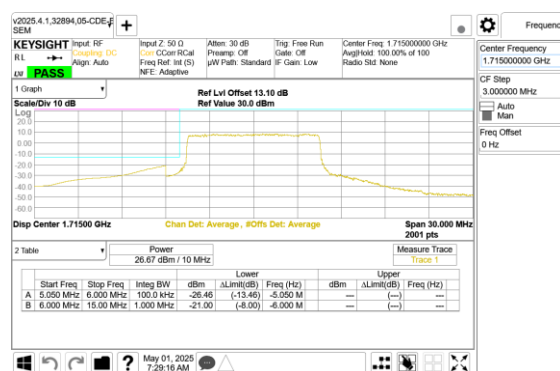




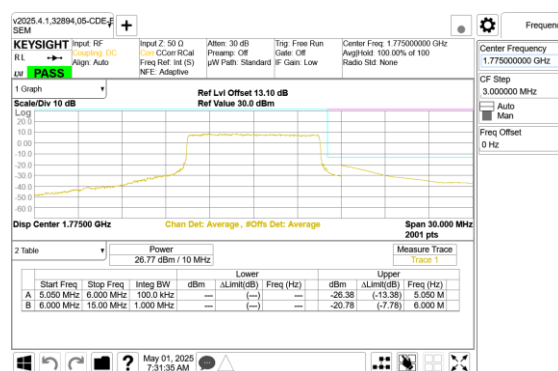
LTE B66 10MHz QPSK Low Channel RB1-0



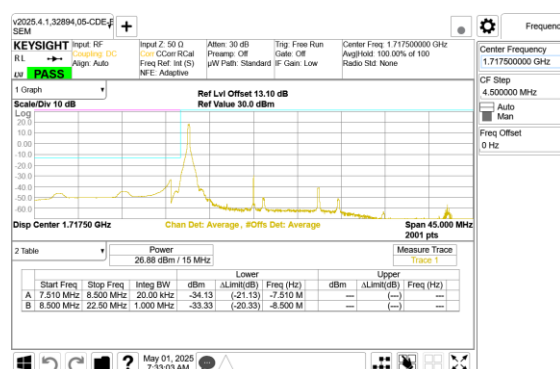
LTE B66 10MHz QPSK High Channel RB1-49



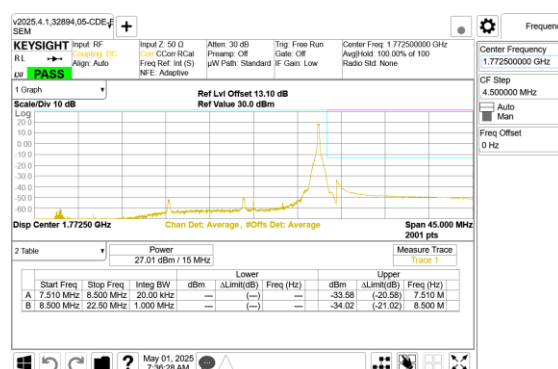
LTE B66 10MHz QPSK Low Channel RB50-0



LTE B66 10MHz QPSK High Channel RB50-0



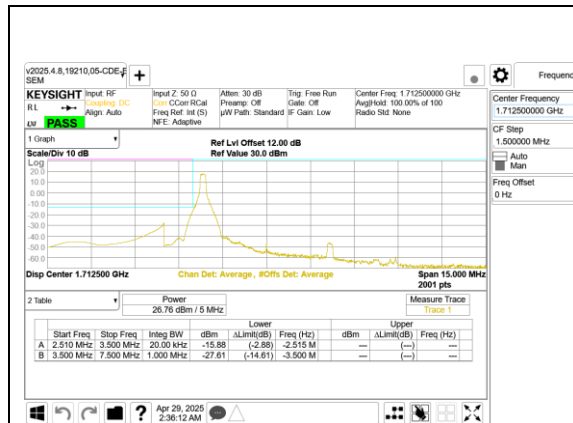
LTE B66 15MHz QPSK Low Channel RB1-0



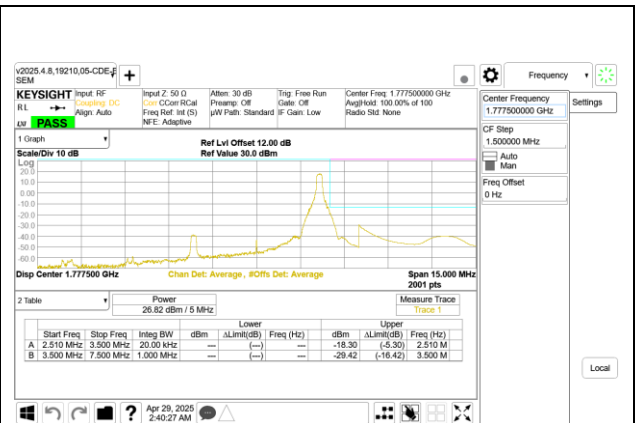
LTE B66 15MHz QPSK High Channel RB1-74



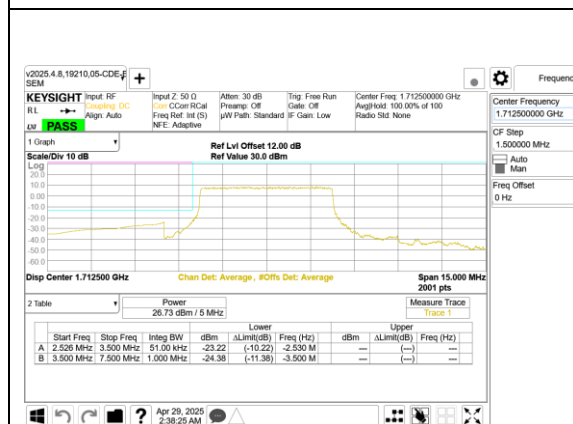
9.2.2. 5G NR n66



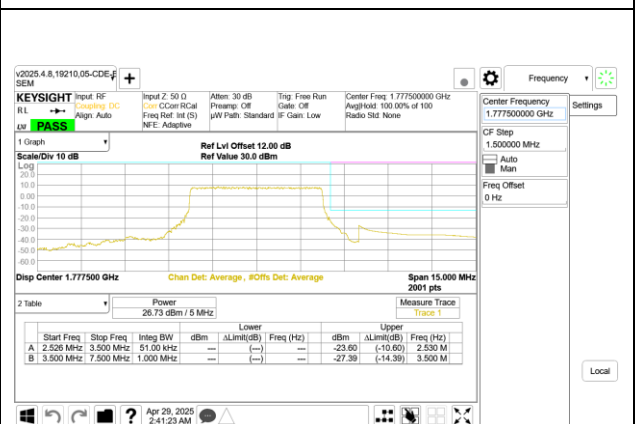
5G NR n66 5MHz BPSK Low Channel RB1-0



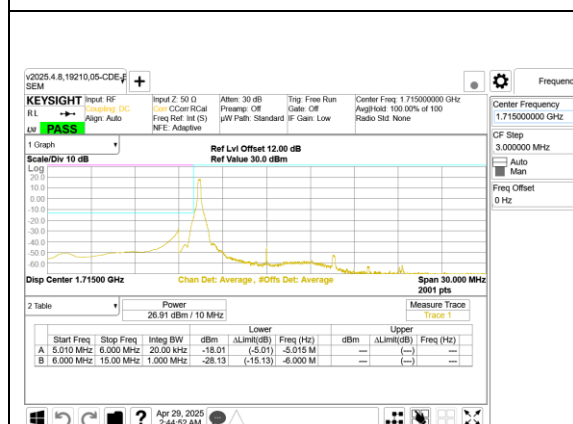
5G NR n66 5MHz BPSK High Channel RB1-24



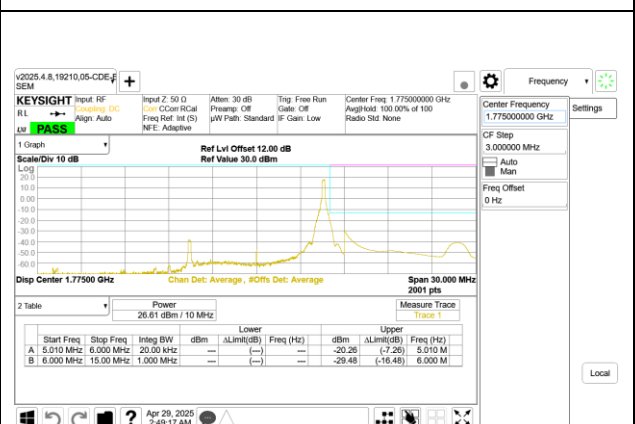
5G NR n66 5MHz BPSK Low Channel RB25-0



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



5G NR n66 10MHz BPSK Low Channel RB1-0



5G NR n66 10MHz BPSK High Channel RB1-51

