

TEST REPORT

Report Number: 15496224-E23V4

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

Model : A3256

Brand : APPLE

FCC ID : BCG-E8949A

IC : 579C-E8949A

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 2, PART 24E, PART 25
ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-133 ISSUE 7

Date Of Issue:
2025-08-15

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2025-06-20	Initial Review	--
V2	2025-07-10	Updated Section 2	Eric Ting
V3	2025-07-25	Updated Section 2 for SCS Requirement	Mengistu Mekuria
V4	2025-08-15	Revise section 6.5	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	A3256	
Brand	APPLE	
FCC ID	BCG-E8949A	
IC	579C-E8949A	
EUT Description	SMARTPHONE	
Serial Number	RADIATED: N4QD07QXJ9, CP2H9NGP6C CONDUCTED: C07HG80000L0000WGT, C07HG80000T0000WGT	
Sample Receipt Date	2024-11-25	
Date Tested	2024-11-25 to 2025-06-03	
Applicable Standards	FCC 47 CFR PART 2, PART 24E, PART 25 ISED RSS-GEN ISSUE 5 + A1 + A2, RSS-133 ISSUE 7	
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.		
Approved & Released By:	Reviewed By:	Prepared By:
		
Kiya Kedida Lead Project Engineer UL Verification Services Inc.	Eric Ting Senior Test Engineer UL Verification Services Inc.	Carlos D. Caudana Project 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	24.232 (c)	RSS133§5.5	Complies	
Occupied Bandwidth	2.1049	RSS-GEN§6.7, RSS133	Complies	
Band Edge and Emission Mask	2.1051, 24.238 (a)	RSS133§5.6	Complies	
Out of Band Emissions	2.1051, 24.238 (a)	RSS133§5.6	Complies	
Frequency Stability	2.1055, 24.235	RSS133§5.4	Complies	
Peak-to-Average Ratio	24.232 (d)	RSS133§5.5	Complies	
Field Strength of Spurious Radiation	2.1053, 24.238 (a)	RSS133§5.6	Complies	

SUPPLEMENTAL COVERAGE FROM SPACE (SCS)

Under section § 25.109 (f) of the FCC rules Space and SCS earth stations providing SCS are subject to technical rules in parts 2, 22, 24, and 27 of this chapter based on the operating frequency band. Section § 25.204 (g) specifies that earth stations providing SCS pursuant to §§ 25.125 and 25.115 shall comply with the power requirements and out-of-band emission limits corresponding to devices operating in parts 22, 24, or 27 of this chapter (e.g., §§ 22.913, 24.232, 27.50), as required for their operating frequencies. We have clarified through KDB inquiry that the technical requirements from Part 90R should be applied for SCS operations in the 700 MHz Public Safety Band.

The table below identifies the SCS frequencies available for use and, for each band, the applicable FCC Part 22, 24, 27, and 90R technical requirements, the air interfaces supported by the device for SCS use.

The bands available for SCS and the bands supported by the devices in the scope of this report are:

Band	Frequency		Part 22/24/27/90 Rule parts	3GPP Band	Supported	Applicable to This Report
	DL (MHz)	UL (MHz)				
600 MHz:	614-652	663-698	27.5 (c) 27.50 (c) 27.53 (g)	71/n71	Yes	No
700 MHz:	729 – 746	699 –716	27.5 (c) 27.50 (c) 27.53 (g)	12/n12 17	Yes	No
	746 – 756	777 – 787	27.5 (b) 27.50 (b) 27.53 (f)	13/n13	Yes	No
	758-769	788-799	90R ^{Note 1}	14 / n14	Yes	No
	805-806 MHz				No	
800 MHz:	869-894	824-849	22H	WCDMA 5 5/n5 26/N26	Yes	No
Broadband PCS:	1930-1995	1850-1915	24E 24E	WCDMA 2 2/n2 25/n25	Yes	Yes
Note 1: Clarified through KDB inquiry that the technical requirements from Part 90R should be applied for SCS operations in the 700 MHz Public Safety Band.						

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 24E, Part 25
- [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
- [FCC KDB 273109 D02](#): Part 25 SCS and CMRS-Bands
- ISED RSS-Gen Issue 5 + A1 + A2, RSS-133 Issue 7

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 conducted and peak EIRP output powers as follows:

LTE BAND 25

Part 24 / RSS 133									
EIRP Limit (W)		2.00							
Antenna Gain (dBi) (ANT4)		-1.10							
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	1850.7	1914.3	25.20	24.10	0.257	1.097	1097	1M10G7W
	16QAM			24.24	23.14	0.206	1.096	1096	1M10D7W
3.0	QPSK	1851.5	1913.5	25.20	24.10	0.257	2.706	2706	2M71G7W
	16QAM			24.34	23.24	0.211	2.704	2704	2M70D7W
5.0	QPSK	1852.5	1912.5	25.20	24.10	0.257	4.499	4499	4M50G7W
	16QAM			24.39	23.29	0.213	4.501	4501	4M50D7W
10.0	QPSK	1855.0	1910.0	25.20	24.10	0.257	8.983	8983	8M98G7W
	16QAM			24.26	23.16	0.207	8.985	8985	8M99D7W
15.0	QPSK	1857.5	1907.5	25.20	24.10	0.257	13.468	13468	13M5G7W
	16QAM			24.34	23.24	0.211	13.466	13466	13M5D7W
20.0	QPSK	1860.0	1905.0	25.20	24.10	0.257	17.938	17938	17M9G7W
	16QAM			24.27	23.17	0.207	17.945	17945	17M9D7W

5G NR n25

Part 24/ RSS 133									
EIRP Limit (W)		2.00							
Antenna Gain (dBi) (ANT4)		-1.10							
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	1852.5	1912.5	25.18	24.08	0.256	4.513	4513	4M51G7W
	QPSK			25.20	24.10	0.257	4.521	4521	4M52G7W
	16QAM			24.08	22.98	0.199	4.507	4507	4M51D7W
10.0	BPSK	1855.0	1910.0	25.20	24.10	0.257	8.994	8994	8M99G7W
	QPSK			25.20	24.10	0.257	8.997	8997	9M00G7W
	16QAM			24.01	22.91	0.195	8.990	8990	8M99D7W
15.0	BPSK	1857.5	1907.5	25.20	24.10	0.257	13.481	13481	13M5G7W
	QPSK			25.20	24.10	0.257	13.483	13483	13M5G7W
	16QAM			24.06	22.96	0.198	13.474	13474	13M5D7W
20.0	BPSK	1860.0	1905.0	25.20	24.10	0.257	17.952	17952	18M0G7W
	QPSK			25.20	24.10	0.257	17.958	17958	18M0G7W
	16QAM			23.95	22.85	0.193	17.936	17936	17M9D7W
25.0	BPSK	1862.5	1902.5	25.20	24.10	0.257	22.939	22939	22M9G7W
	QPSK			25.20	24.10	0.257	22.956	22956	23M0G7W
	16QAM			23.98	22.88	0.194	22.938	22938	22M9D7W
30.0	BPSK	1865.0	1900.0	25.20	24.10	0.257	28.662	28662	28M7G7W
	QPSK			25.20	24.10	0.257	28.669	28669	28M7G7W
	16QAM			24.11	23.01	0.200	28.728	28728	28M7D7W
35.0	BPSK	1867.5	1897.5	25.02	23.92	0.247	32.256	32256	32M3G7W
	QPSK			25.20	24.10	0.257	32.273	32273	32M3G7W
	16QAM			25.01	23.91	0.246	32.228	32228	32M2D7W
40.0	BPSK	1870.0	1895.0	25.20	24.10	0.257	38.703	38703	38M7G7W
	QPSK			25.20	24.10	0.257	38.669	38669	38M7G7W
	16QAM			24.08	22.98	0.199	38.780	38780	38M8D7W

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 IF antenna(s) gain/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 25	1850 - 1915	ANT3	-2.80	25.7	22.90
		ANT4	-1.10	25.2	24.10
		ANT2	-3.50	25.7	22.20
		ANT1	-5.90	24.2	18.30
5G NR n25	1850 - 1915	ANT3	-2.80	25.7	22.90
		ANT4	-1.10	25.2	24.10
		ANT2	-3.50	25.7	22.20
		ANT1	-5.90	24.2	18.30

6.5. WORST-CASE CONFIGURATION AND MODE

This report covers the following technologies:

- LTE Band 2, 5G NR n2
- LTE Band 25, 5G NR n25

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.

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 25 and 5G NR n25	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	ANT1	ANT2	ANT3	ANT4
1710 – 1915 MHz	X	X	Y	Y

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

Refer to Appendix A for description of test 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
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
Wideband Communication Test Set, Call Box	R&S GmbH & Co.	CMW500	230297	2026-02-28
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169936	2026-02-28
Antenna, Horn 1-18GHz	ETS Lindgren	3117	200897	2026-04-30
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	217255	2026-01-31
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	262735	2026-03-30
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	231912	2026-04-30
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
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, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	172353	2025-08-31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	AMPLICAL	AMP18G26.5-60	220194	2026-04-29
PXA Signal Analyzer	Keysight Technologies	N9030B	262735	2026-03-30
PXA Signal Analyzer	Keysight Technologies	N9030B	231912	2026-04-30
PXA Signal Analyzer	Keysight Technologies	N9030B	259079	2026-02-28
PXA Signal Analyzer	Keysight Technologies	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	2025-10-31-2025
Directional Coupler	KRYTAR	101040010K	254458	2025-10-30-2025
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	CLT	Ver.2023 11.21.0 & .2024.3.20.0	
Conducted Software	UL	Power Measurement	Ver 2023.08.14	
Conducted Software	UL	Antenna Port	Ver.2022.8.16	
Conducted Software	UL	Station Tool	Ver. 5.0,	
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

The 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 25

Test Engineer ID:	39004	Test Date:	2025-01-22
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OUTPUT POWER FOR LTE BAND 25 (1.4 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				26047	26365	26683	26047	26365	26683	26047	26365	26683	26047	26365	26683
1.4	QPSK	1	0	1850.7	1882.5	1914.3	1850.7	1882.5	1914.3	1850.7	1882.5	1914.3	1850.7	1882.5	1914.3
		1	2	25.70	25.60	25.70	25.06	24.91	24.89	25.70	25.70	25.66	24.20	24.20	24.16
		1	2	25.61	25.70	25.58	25.20	25.20	25.20	25.67	25.70	25.70	24.19	24.16	24.20
		1	5	25.64	25.66	25.55	25.01	24.88	24.96	25.68	25.66	25.66	24.14	24.17	24.15
		3	0	25.63	25.63	25.54	24.97	24.87	24.88	25.67	25.66	25.62	24.15	24.17	24.11
		3	1	25.66	25.61	25.56	24.99	24.87	24.90	25.69	25.63	25.65	24.12	24.10	24.11
	16QAM	3	2	25.67	25.56	25.52	24.99	24.88	24.89	25.69	25.65	25.64	24.15	24.16	24.04
		6	0	25.52	25.47	25.42	24.04	23.91	23.95	24.73	24.68	24.65	23.17	23.18	23.15
		1	0	24.94	24.91	24.93	24.19	24.15	24.06	24.89	24.97	24.83	23.31	23.30	23.34
		1	2	24.94	24.97	25.00	24.24	24.15	24.11	24.99	24.90	24.85	23.42	23.31	23.36
		1	5	25.00	25.00	24.84	24.15	24.07	24.16	24.84	24.87	24.81	23.30	23.23	23.31
		3	0	24.96	24.89	24.90	24.20	24.02	24.10	24.92	24.81	24.80	23.35	23.31	23.24
	64QAM	3	1	24.94	24.92	24.83	24.16	24.05	24.12	24.87	24.87	24.84	23.37	23.30	23.31
		3	2	24.92	24.88	24.81	24.18	24.03	24.16	24.84	24.84	24.82	23.31	23.27	23.32
		6	0	23.89	23.84	23.82	23.09	23.05	23.04	23.76	23.78	23.77	22.22	22.26	22.24
		1	0	24.14	24.16	23.87	23.38	23.35	23.35	24.04	24.07	23.90	22.42	22.58	22.51
		1	2	24.06	24.10	23.91	23.44	23.30	23.37	24.04	24.11	24.01	22.49	22.58	22.55
		1	5	24.11	24.10	23.72	23.46	23.28	23.29	23.95	24.02	23.94	22.49	22.50	22.59
	256QAM	3	0	24.07	23.98	23.90	23.25	23.20	23.19	23.98	23.88	23.92	22.49	22.50	22.49
		3	1	24.08	24.04	23.98	23.20	23.16	23.28	24.01	23.95	23.94	22.50	22.39	22.47
		3	2	24.03	24.00	23.89	23.24	23.20	23.25	24.04	23.94	23.92	22.43	22.48	22.46
		6	0	22.92	22.89	22.79	22.16	22.02	22.11	22.88	22.79	22.81	21.33	21.34	21.32
		1	0	20.98	20.93	20.83	20.17	20.13	20.11	20.92	20.92	20.83	19.40	19.36	19.42
		1	2	21.00	21.00	20.87	20.20	20.20	20.13	20.93	20.91	20.98	19.46	19.41	19.40
	256QAM	1	5	20.98	20.93	20.76	20.13	20.11	20.10	21.00	20.84	20.87	19.32	19.40	19.32
		3	0	20.99	20.89	20.86	20.20	20.08	20.16	20.87	20.87	20.83	19.37	19.31	19.35
		3	1	21.06	20.97	20.86	20.18	20.11	20.11	20.90	20.83	20.82	19.35	19.38	19.30
		3	2	20.98	20.96	20.82	20.19	20.05	20.14	20.91	20.89	20.83	19.40	19.35	19.35
		6	0	20.86	20.79	20.68	20.09	19.98	20.04	20.82	20.74	20.73	19.29	19.19	19.23

OUTPUT POWER FOR LTE BAND 25 (3.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				26055	26365	26675	26055	26365	26675	26055	26365	26675	26055	26365	26675
3.0	QPSK	1	0	1851.5	1882.5	1913.5	1851.5	1882.5	1913.5	1851.5	1882.5	1913.5	1851.5	1882.5	1913.5
		1	7	25.67	25.56	25.64	25.07	24.98	24.96	25.62	25.67	25.58	24.16	24.20	24.14
		1	7	25.70	25.70	25.70	25.15	25.20	25.20	25.70	25.70	25.70	24.20	24.19	24.20
		1	14	25.56	25.55	25.54	25.04	24.93	24.93	25.56	25.59	25.53	24.05	24.11	24.08
		8	0	25.49	25.45	25.51	24.09	24.00	24.02	24.67	24.71	24.62	23.17	23.21	23.13
		8	4	25.47	25.50	25.47	24.10	24.03	24.03	24.65	24.73	24.68	23.20	23.20	23.11
	16QAM	8	7	25.48	25.48	25.44	24.08	24.01	24.03	24.67	24.71	24.63	23.17	23.19	23.19
		15	0	25.47	25.43	25.45	24.07	23.98	23.99	24.68	24.66	24.62	23.16	23.18	23.10
		1	0	24.95	24.86	24.88	24.17	24.13	24.13	24.85	24.77	24.78	23.27	23.32	23.32
		1	7	24.92	24.94	24.96	24.23	24.26	24.34	24.84	24.84	24.85	23.30	23.40	23.41
		1	14	24.76	24.85	24.78	24.16	24.08	24.14	24.77	24.76	24.64	23.22	23.24	23.31
		8	0	23.82	23.76	23.83	23.14	23.03	23.05	23.71	23.74	23.69	22.25	22.21	22.19
	64QAM	8	4	23.81	23.80	23.79	23.16	23.07	23.08	23.72	23.77	23.74	22.25	22.23	22.19
		8	7	23.82	23.81	23.81	23.14	23.04	23.06	23.70	23.72	23.69	22.23	22.25	22.22
		15	0	23.78	23.75	23.76	23.13	23.01	23.03	23.67	23.72	23.65	22.18	22.18	22.09
		1	0	24.06	23.96	24.05	23.35	23.27	23.25	23.88	23.90	23.85	22.46	22.42	22.24
		1	7	24.11	24.13	24.09	23.38	23.38	23.33	24.06	24.03	23.95	22.49	22.54	22.35
		1	14	23.94	23.98	23.71	23.30	23.21	23.12	23.92	23.84	23.79	22.29	22.35	22.26
	256QAM	8	0	22.86	22.79	22.86	22.18	22.08	22.07	22.78	22.79	22.73	21.24	21.26	21.04
		8	4	22.86	22.86	22.86	22.17	22.09	22.13	22.76	22.77	22.77	21.29	21.27	21.08
		8	7	22.86	22.82	22.82	22.21	22.07	22.10	22.72	22.77	22.73	21.27	21.27	21.15
		15	0	22.83	22.80	22.78	22.15	22.04	22.01	22.70	22.72	22.67	21.24	21.25	21.02
		1	0	20.88	20.80	20.85	20.19	20.03	20.10	20.80	20.80	20.70	19.26	19.25	19.14
		1	7	20.93	20.88	20.88	20.26	20.10	20.19	20.87	20.89	20.86	19.30	19.33	19.24
	256QAM	1	14	20.82	20.88	20.77	20.18	20.11	20.00	20.72	20.74	20.64	19.26	19.25	19.17
		8	0	20.84	20.76	20.78	20.11	20.07	20.06	20.70	20.70	20.71	19.20	19.22	19.04
		8	4	20.84	20.81	20.79	20.15	20.03	20.06	20.71	20.74	20.71	19.26	19.23	19.05
		8	7	20.83	20.83	20.75	20.15	20.02	20.06	20.66	20.70	20.71	19.21	19.22	19.14
		15	0	20.81	20.76	20.71	20.10	20.04	19.99	20.70	20.69	20.68	19.19	19.22	19.03

OUTPUT POWER FOR LTE BAND 25 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				26065	26365	26665	26065	26365	26665	26065	26365	26665	26065	26365	26665
				1852.5	1882.5	1912.5	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5
5.0	QPSK	1	0	25.69	25.70	25.60	25.20	25.17	25.02	25.70	25.70	25.64	24.20	24.20	24.20
		1	12	25.59	25.59	25.52	25.06	25.03	25.20	25.51	25.60	25.65	24.07	24.09	24.12
		1	24	25.52	25.69	25.49	25.15	25.04	25.08	25.56	25.68	25.70	24.07	24.10	24.12
		12	0	25.42	25.44	25.38	24.11	24.07	23.96	24.61	24.64	24.61	23.04	23.09	23.17
		12	6	25.40	25.42	25.33	24.06	24.05	24.00	24.59	24.64	24.60	23.02	23.10	23.16
		12	11	25.38	25.44	25.35	24.07	24.00	24.04	24.58	24.60	24.64	23.02	23.08	23.13
		25	0	25.41	25.43	25.32	24.05	24.04	23.95	24.56	24.65	24.56	23.02	23.07	23.13
	16QAM	1	0	25.00	24.90	25.00	24.39	24.34	24.15	24.83	24.89	24.87	23.29	23.33	23.34
		1	12	24.83	24.86	24.85	24.28	24.20	24.22	24.73	24.82	24.81	23.22	23.20	23.28
		1	24	24.88	24.94	24.69	24.29	24.21	24.23	24.78	24.78	24.83	23.23	23.35	23.35
		12	0	23.73	23.73	23.65	23.16	23.09	22.94	23.68	23.64	23.61	22.06	22.20	22.20
		12	6	23.72	23.75	23.61	23.15	23.12	22.97	23.64	23.63	23.59	22.05	22.17	22.21
		12	11	23.67	23.70	23.62	23.15	23.08	23.02	23.62	23.60	23.66	22.03	22.15	22.18
		25	0	23.70	23.73	23.62	23.10	23.06	22.97	23.60	23.64	23.60	22.03	22.11	22.19
	64QAM	1	0	24.13	24.00	24.02	23.41	23.39	23.34	23.91	24.03	23.95	22.35	22.38	22.46
		1	12	23.97	24.04	23.96	23.34	23.29	23.37	23.87	23.87	23.88	22.26	22.29	22.38
		1	24	23.89	24.06	23.80	23.34	23.29	23.35	23.75	23.95	23.86	22.35	22.38	22.45
		12	0	22.78	22.75	22.76	22.15	22.17	22.00	22.66	22.72	22.68	21.13	21.14	21.24
		12	6	22.74	22.80	22.66	22.16	22.13	22.01	22.66	22.70	22.67	21.11	21.12	21.24
		12	11	22.70	22.74	22.65	22.10	22.08	22.06	22.63	22.66	22.69	21.08	21.10	21.18
		25	0	22.74	22.74	22.62	22.15	22.07	21.98	22.63	22.65	22.60	21.03	21.10	21.18
	256QAM	1	0	20.95	20.81	20.78	20.27	20.27	20.21	20.70	20.85	20.77	19.18	19.22	19.32
		1	12	20.88	20.92	20.87	20.21	20.19	20.29	20.72	20.80	20.84	19.19	19.21	19.28
		1	24	20.80	20.90	20.68	20.33	20.22	20.19	20.62	20.79	20.74	19.15	19.26	19.36
		12	0	20.74	20.73	20.65	20.13	20.06	20.04	20.58	20.66	20.66	19.05	19.11	19.18
		12	6	20.69	20.76	20.61	20.12	20.09	20.00	20.60	20.68	20.62	19.06	19.12	19.19
		12	11	20.66	20.75	20.63	20.10	20.04	20.07	20.56	20.60	20.66	18.98	19.08	19.13
		25	0	20.68	20.74	20.59	20.09	20.06	19.99	20.59	20.63	20.63	19.03	19.09	19.16

OUTPUT POWER FOR LTE BAND 25 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				26090	26365	26640	26090	26365	26640	26090	26365	26640	26090	26365	26640
10.0	QPSK	1	0	25.69	25.57	25.70	25.04	25.03	24.98	25.60	25.70	25.63	24.18	24.15	24.15
		1	24	25.70	25.67	25.52	25.11	25.20	25.20	25.70	25.69	25.70	24.20	24.20	24.25
		1	49	25.43	25.70	25.31	25.08	24.92	25.08	25.59	25.60	25.63	24.12	24.12	24.16
		25	0	25.48	25.44	25.39	24.12	24.06	23.97	24.67	24.70	24.60	23.21	23.21	23.14
		25	12	25.46	25.55	25.40	24.13	24.06	23.98	24.68	24.72	24.58	23.25	23.20	23.11
		25	24	25.42	25.56	25.32	24.16	24.03	24.03	24.70	24.68	24.64	23.21	23.18	23.20
		50	0	25.44	25.51	25.39	24.12	24.05	23.96	24.68	24.67	24.56	23.20	23.18	23.22
	16QAM	1	0	24.94	24.82	24.95	24.21	24.18	24.05	24.77	24.80	24.74	23.31	23.34	23.31
		1	24	25.00	24.90	24.75	24.26	24.16	24.24	24.85	24.87	24.86	23.44	23.30	23.35
		1	49	24.79	24.97	24.65	24.18	24.09	24.09	24.73	24.75	24.79	23.26	23.26	23.36
		25	0	23.83	23.78	23.68	23.15	23.11	22.95	23.74	23.69	23.60	22.24	22.17	22.15
		25	12	23.79	23.84	23.67	23.19	23.10	23.00	23.74	23.71	23.61	22.25	22.26	22.17
		25	24	23.74	23.88	23.62	23.16	23.03	23.09	23.73	23.72	23.70	22.22	22.20	22.22
		50	0	23.80	23.82	23.70	23.16	23.05	22.97	23.73	23.70	23.59	22.22	22.19	22.11
	64QAM	1	0	24.06	23.87	24.00	23.27	23.35	23.17	23.85	23.91	23.85	22.46	22.42	22.37
		1	24	24.07	24.07	23.97	23.40	23.37	23.31	23.90	23.96	23.89	22.50	22.45	22.35
		1	49	23.86	24.07	23.74	23.29	23.25	23.29	23.88	23.92	23.88	22.33	22.35	22.40
		25	0	22.83	22.78	22.71	22.17	22.10	22.00	22.72	22.72	22.61	21.26	21.26	21.13
		25	12	22.82	22.85	22.74	22.17	22.10	22.02	22.75	22.73	22.66	21.28	21.24	21.16
		25	24	22.77	22.86	22.63	22.17	22.06	22.08	22.73	22.70	22.71	21.24	21.23	21.23
		50	0	22.79	22.80	22.70	22.16	22.09	21.98	22.72	22.69	22.60	21.27	21.23	21.16
	256QAM	1	0	20.81	20.72	20.87	20.07	20.16	20.01	20.74	20.72	20.65	19.25	19.18	19.22
		1	24	20.87	20.93	20.86	20.27	20.21	20.27	20.83	20.86	20.78	19.35	19.33	19.33
		1	49	20.70	20.97	20.52	20.17	20.02	20.14	20.74	20.76	20.72	19.26	19.23	19.20
		25	0	20.76	20.81	20.65	20.14	20.06	19.96	20.71	20.70	20.60	19.24	19.23	19.13
		25	12	20.74	20.84	20.67	20.16	20.07	20.00	20.74	20.73	20.61	19.25	19.22	19.15
		25	24	20.74	20.87	20.59	20.16	20.04	20.07	20.70	20.69	20.66	19.23	19.22	19.20
		50	0	20.76	20.80	20.68	20.13	20.10	19.99	20.70	20.72	20.60	19.22	19.20	19.11

OUTPUT POWER FOR LTE BAND 25 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				26115	26365	26615	26115	26365	26615	26115	26365	26615	26115	26365	26615
15.0	QPSK	1	0	1857.5	1882.5	1907.5	1857.5	1882.5	1907.5	1857.5	1882.5	1907.5	1857.5	1882.5	1907.5
		1	0	25.70	25.42	25.67	25.09	25.05	24.92	25.68	25.70	25.67	24.20	24.16	24.20
		1	37	25.56	25.61	25.44	25.20	25.20	25.20	25.70	25.69	25.70	24.13	24.20	24.18
		1	74	25.51	25.70	25.13	25.01	24.95	25.01	25.59	25.68	25.64	24.03	24.19	24.18
		36	0	25.48	25.37	25.34	24.13	24.09	23.97	24.71	24.72	24.64	23.18	23.21	23.13
		36	16	25.46	25.45	25.22	24.14	24.06	23.97	24.70	24.74	24.66	23.15	23.23	23.14
		36	35	25.43	25.47	25.17	24.13	24.01	24.06	24.67	24.74	24.70	23.12	23.23	23.12
		75	0	25.41	25.40	25.21	24.11	24.00	23.95	24.65	24.71	24.63	23.12	23.20	23.08
	16QAM	1	0	24.99	24.80	25.00	24.30	24.22	24.13	24.90	24.82	24.82	23.36	23.42	23.37
		1	37	24.89	24.92	24.73	24.34	24.23	24.24	24.86	24.97	24.91	23.32	23.46	23.45
		1	74	24.82	24.96	24.45	24.24	24.13	24.22	24.83	24.92	24.91	23.29	23.41	23.39
		36	0	23.78	23.68	23.66	23.14	23.11	22.99	23.73	23.76	23.69	22.20	22.23	22.16
		36	16	23.79	23.74	23.52	23.14	23.06	23.02	23.71	23.76	23.70	22.19	22.27	22.17
		36	35	23.75	23.80	23.46	23.14	23.02	23.08	23.69	23.75	23.74	22.16	22.24	22.26
		75	0	23.75	23.73	23.51	23.12	23.06	22.99	23.69	23.73	23.66	22.14	22.21	22.19
		75	0	24.10	23.87	23.98	23.32	23.30	23.23	23.97	24.01	23.89	22.51	22.48	22.48
	64QAM	1	0	24.09	24.06	23.77	23.33	23.32	23.23	23.97	24.00	24.00	22.46	22.51	22.48
		1	37	23.91	24.10	23.36	23.18	23.28	23.30	23.90	23.98	23.99	22.39	22.42	22.47
		1	74	22.83	22.68	22.67	22.16	22.12	22.00	22.74	22.77	22.69	21.19	21.26	21.19
		36	0	22.77	22.77	22.53	22.17	22.07	22.01	22.73	22.75	22.70	21.20	21.27	21.13
		36	35	22.73	22.81	22.45	22.18	22.05	22.10	22.70	22.74	22.77	21.17	21.21	21.25
		75	0	22.75	22.73	22.53	22.14	22.07	22.01	22.72	22.75	22.66	21.17	21.23	21.17
		75	0	20.93	20.58	20.83	20.17	20.15	20.06	20.77	20.75	20.71	19.21	19.20	19.23
		75	0	20.85	20.82	20.63	20.19	20.12	20.15	20.84	20.81	20.79	19.22	19.37	19.31
	256QAM	1	0	20.81	20.87	20.32	20.19	19.94	20.13	20.69	20.75	20.74	19.09	19.23	19.25
		1	37	20.80	20.65	20.64	20.13	20.07	19.98	20.72	20.74	20.68	19.18	19.22	19.15
		1	74	20.75	20.73	20.50	20.14	20.06	20.01	20.71	20.76	20.67	19.18	19.24	19.18
		36	0	20.71	20.76	20.42	20.12	20.03	20.06	20.70	20.73	20.71	19.16	19.22	19.23
		36	16	20.74	20.72	20.47	20.12	20.07	19.98	20.68	20.75	20.65	19.14	19.24	19.17
		36	35	20.74	20.72	20.47	20.12	20.07	19.98	20.68	20.75	20.65	19.14	19.24	19.17
		75	0	20.74	20.72	20.47	20.12	20.07	19.98	20.68	20.75	20.65	19.14	19.24	19.17
		75	0	20.74	20.72	20.47	20.12	20.07	19.98	20.68	20.75	20.65	19.14	19.24	19.17

OUTPUT POWER FOR LTE BAND 25 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				26140	26365	26590	26140	26365	26590	26140	26365	26590	26140	26365	26590
20.0	QPSK	1	0	1860.0	1882.5	1905.0	1860.0	1882.5	1905.0	1860.0	1882.5	1905.0	1860.0	1882.5	1905.0
		1	0	25.70	25.39	25.70	25.03	25.20	24.92	25.70	25.66	25.61	24.13	24.17	24.13
		1	49	25.57	25.70	25.35	25.20	24.97	25.00	25.67	25.70	25.70	24.20	24.20	24.20
		1	99	25.61	25.67	24.94	25.08	25.00	25.20	25.64	25.69	25.64	24.15	24.18	24.15
		50	0	25.51	25.37	25.36	24.15	24.10	23.97	24.77	24.76	24.65	23.22	23.26	23.12
		50	24	25.49	25.50	25.24	24.18	24.10	23.99	24.76	24.73	24.67	23.26	23.32	23.21
		50	49	25.46	25.54	25.04	24.15	24.01	24.06	24.72	24.76	24.73	23.23	23.30	23.19
		100	0	25.47	25.44	25.25	24.12	24.05	23.99	24.71	24.73	24.65	23.21	23.24	23.21
	16QAM	1	0	25.00	24.69	25.00	24.22	24.27	24.09	24.90	24.81	24.80	23.29	23.33	23.26
		1	49	24.93	24.93	24.66	24.23	24.22	24.19	24.85	24.84	24.90	23.40	23.44	23.43
		1	99	24.88	25.00	24.17	24.23	24.09	24.20	24.80	24.87	24.79	23.39	23.42	23.33
		50	0	23.83	23.67	23.66	23.14	23.12	22.95	23.81	23.76	23.56	22.31	22.29	22.12
		50	24	23.78	23.79	23.54	23.19	23.10	23.00	23.77	23.77	23.64	22.30	22.29	22.20
		50	49	23.76	23.83	23.33	23.17	23.04	23.11	23.72	23.75	23.67	22.27	22.29	22.17
		100	0	23.80	23.72	23.56	23.14	23.05	22.98	23.74	23.73	23.58	22.27	22.28	22.22
		100	0	24.07	23.76	24.07	23.35	23.32	23.18	23.95	23.94	23.82	22.47	22.49	22.49
	64QAM	1	0	23.97	23.98	23.74	23.40	23.28	23.26	23.94	23.91	23.85	22.51	22.47	22.46
		1	49	23.99	24.03	23.29	23.39	23.20	23.27	23.88	23.94	23.93	22.42	22.43	22.41
		1	99	22.81	22.70	22.66	22.15	22.13	21.96	22.79	22.76	22.57	21.32	21.29	21.18
		50	0	22.78	22.80	22.56	22.21	22.10	22.03	22.80	22.76	22.59	21.30	21.31	21.26
		50	24	22.78	22.80	22.56	22.21	22.10	22.03	22.80	22.76	22.59	21.30	21.31	21.26
		50	49	22.78	22.83	22.37	22.16	22.05	22.08	22.75	22.75	22.66	21.29	21.31	21.25
		100	0	22.80	22.75	22.56	22.14	22.04	21.99	22.75	22.71	22.59	21.27	21.26	21.26
		100	0	20.86	20.53	20.85	20.10	20.08	20.04	20.78	20.74	20.62	19.35	19.27	19.27
	256QAM	1	0	20.86	20.93	20.64	20.22	20.14	20.23	20.87	20.85	20.75	19.41	19.36	19.39
		1	49	20.83	20.86	20.15	20.13	19.94	20.08	20.72	20.75	20.69	19.28	19.34	19.19
		1	99	20.77	20.65	20.65	20.16	20.09	19.96	20.78	20.72	20.56	19.25	19.27	19.18
		50	0	20.77	20.65	20.65	20.16	20.09	19.96	20.78	20.72	20.56	19.25	19.27	19.18
		50	24	20.75	20.78	20.53	20.17	20.10	19.99	20.75	20.76	20.61	19.27	19.31	19.24
		50	49	20.74	20.79	20.30	20.13	19.99	20.05	20.70	20.69	20.63	19.23	19.26	19.19
		100	0	20.75	20.72	20.56	20.14	20.04	19.96	20.73	20.71	20.56	19.23	19.20	19.22
		100	0	20.75	20.72	20.56	20.14	20.04	19.96	20.73	20.71	20.56	19.23	19.20	19.22

8.2. 5G NR n25

Test Engineer ID:	32894	Test Date:	2024-12-06
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OUTPUT POWER FOR 5G NR n25 (5.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				370500	376500	382500	370500	376500	382500	370500	376500	382500	370500	376500	382500
5.0	BPSK	1	0	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5	1852.5	1882.5	1912.5
		1	0	25.08	25.07	25.04	24.44	24.58	24.52	25.14	25.14	25.06	23.63	23.63	23.54
		1	1	25.69	25.67	25.54	25.12	25.18	25.09	25.66	25.69	25.63	24.18	24.20	24.07
		1	23	25.60	25.61	25.49	24.95	25.12	25.06	25.70	25.63	25.62	24.09	24.16	24.09
		1	24	25.06	25.06	25.01	24.45	24.57	24.55	25.05	25.06	25.12	23.61	23.66	23.57
	QPSK	12	6	25.70	25.67	25.68	25.08	25.17	25.14	25.67	25.65	25.70	24.20	24.19	24.16
		25	0	25.05	25.05	25.03	24.45	24.49	24.53	25.03	25.06	25.10	23.63	23.57	23.53
		1	0	24.60	24.61	24.58	24.12	24.12	24.13	24.62	24.63	24.64	23.11	22.43	23.10
		1	1	25.66	25.70	25.57	25.20	25.20	25.14	25.67	25.70	25.67	24.08	23.39	24.15
		1	23	25.64	25.64	25.59	25.08	25.14	25.11	25.66	25.66	24.88	24.14	23.72	24.13
	16QAM	1	24	24.63	24.60	24.54	24.05	24.08	24.09	24.55	24.61	24.14	23.20	22.76	23.11
		12	6	25.67	25.70	25.70	25.09	25.17	25.20	25.70	25.68	25.70	23.85	23.93	24.20
		25	0	24.58	24.63	24.62	24.05	24.10	24.08	24.57	24.63	24.63	23.00	23.03	23.11
		1	0	23.56	23.57	23.38	22.99	22.92	22.98	23.57	23.54	23.56	22.14	21.38	22.03
		1	1	24.57	24.63	24.54	24.01	24.05	24.00	24.69	24.61	24.55	23.13	22.49	23.09
	64QAM	1	23	24.62	24.52	24.42	23.98	24.07	24.08	24.64	24.50	24.45	23.07	22.78	22.94
		1	24	23.44	23.49	23.42	22.98	22.97	22.97	23.54	23.48	23.51	22.44	21.86	21.99
		12	6	24.40	24.50	24.47	23.95	23.95	23.96	24.50	24.46	24.50	23.37	22.98	23.00
		25	0	23.42	23.50	23.47	22.96	22.99	22.99	23.52	23.48	23.51	22.44	21.97	21.99
		1	0	22.94	23.05	23.01	22.51	22.46	22.48	22.96	23.04	22.93	21.99	21.04	21.47
	256QAM	1	1	23.11	23.13	22.94	22.62	22.58	22.45	23.10	23.09	22.96	21.99	21.13	21.45
		1	23	23.00	23.02	22.88	22.52	22.55	22.40	23.06	22.94	22.93	22.05	21.51	21.49
		1	24	22.94	22.94	22.87	22.43	22.51	22.44	22.99	23.00	22.95	21.92	21.39	21.41
		12	6	22.90	22.95	22.89	22.44	22.42	22.42	22.99	22.95	23.00	21.86	21.43	21.42
		25	0	22.92	23.00	22.89	22.45	22.42	22.49	23.00	22.94	22.97	21.93	21.45	21.41
		1	0	21.06	21.05	21.05	20.49	20.42	20.43	20.91	20.98	20.98	19.97	19.59	19.63
		1	1	21.18	21.01	21.15	20.54	20.56	20.42	21.06	20.98	21.09	20.02	19.68	19.60
		1	23	21.07	21.00	21.02	20.45	20.50	20.41	20.98	20.99	20.99	20.09	19.59	19.67
		1	24	21.04	21.03	20.99	20.42	20.44	20.37	21.01	20.84	20.89	19.89	19.56	19.51
		12	6	21.33	20.95	20.95	20.41	20.32	20.36	20.87	20.87	20.86	19.91	19.51	19.55
		25	0	21.33	21.12	21.03	20.39	20.40	20.43	20.93	20.90	20.93	19.97	19.50	19.57

OUTPUT POWER FOR 5G NR n25 (10.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				371000	376500	382000	371000	376500	382000	371000	376500	382000	371000	376500	382000
10.0	BPSK	1	0	1855.0	1882.5	1910.0	1855.0	1882.5	1910.0	1855.0	1882.5	1910.0	1855.0	1882.5	1910.0
		1	0	25.07	24.99	25.05	24.49	24.56	24.50	25.04	24.99	24.96	23.57	23.53	23.52
		1	1	25.69	25.65	25.63	25.13	25.20	25.13	25.70	25.62	25.60	24.19	24.13	24.16
		1	50	25.70	25.61	25.61	25.10	25.13	25.10	25.65	25.61	25.66	24.19	24.16	24.15
		1	51	25.05	25.00	24.99	24.42	24.57	24.51	25.07	25.00	25.01	23.57	23.52	23.55
	QPSK	25	12	25.61	25.61	25.56	25.11	25.18	25.08	25.61	25.62	25.60	24.17	24.15	24.13
		50	0	25.02	25.09	25.01	24.49	24.60	24.49	25.10	25.06	25.05	23.61	23.57	23.56
		1	0	24.57	24.56	24.57	23.98	24.14	24.06	24.56	24.53	24.59	23.10	22.36	23.07
		1	1	25.70	25.70	25.70	25.12	25.14	25.20	25.69	25.70	25.70	23.96	23.34	23.98
		1	50	25.69	25.69	25.62	25.03	25.20	25.16	25.63	25.68	25.17	24.19	24.20	24.20
	16QAM	1	51	24.52	24.53	24.53	23.97	24.03	24.01	24.52	24.52	24.28	23.09	23.05	23.07
		25	12	25.69	25.58	25.52	25.20	25.19	25.10	25.69	25.65	25.56	24.20	24.03	24.16
		50	0	24.63	24.49	24.53	24.04	24.11	24.03	24.59	24.59	24.57	23.12	23.05	23.07
		1	0	23.49	23.46	23.39	23.04	23.06	23.01	23.48	23.39	23.34	21.96	21.48	21.97
		1	1	24.50	24.38	24.50	23.98	24.01	23.98	24.55	24.44	24.48	22.95	22.41	22.96
	64QAM	1	50	24.48	24.41	24.38	23.87	23.97	23.89	24.53	24.42	24.33	23.05	23.01	23.02
		1	51	23.43	23.44	23.38	22.76	22.99	22.84	23.51	23.42	23.34	21.94	21.97	22.02
		25	12	24.46	24.48	24.38	23.87	23.98	23.91	24.54	24.43	24.50	23.02	23.00	23.01
		50	0	23.44	23.45	23.39	23.00	23.02	22.93	23.54	23.43	23.45	21.98	21.98	22.02
		1	0	22.97	22.87	22.90	22.47	22.41	22.42	22.90	23.04	22.93	21.42	20.98	21.49
	256QAM	1	1	23.02	22.92	22.96	22.45	22.51	22.47	23.01	22.93	22.93	21.45	20.95	21.47
		1	50	22.87	22.88	22.88	22.41	22.55	22.34	22.99	22.89	22.90	21.44	21.44	21.42
		1	51	22.87	22.88	22.84	22.37	22.49	22.39	22.91	22.89	22.91	21.42	21.38	21.34
		25	12	22.84	22.90	22.83	22.45	22.49	22.39	23.01	22.95	22.88	21.43	21.43	21.38
		50	0	22.94	22.88	22.94	22.48	22.50	22.37	23.00	22.93	22.93	21.45	21.43	21.42
		1	0	21.06	20.93	20.87	20.41	20.45	20.36	20.95	20.93	20.83	19.47	19.43	19.47
		1	1	21.02	21.10	21.00	20.48	20.47	20.31	20.97	20.82	20.80	19.57	19.36	19.56
		1	50	21.02	20.94	20.87	20.31	20.43	20.30	21.05	20.87	20.83	19.45	19.45	19.46
		1	51	21.00	21.03	20.86	20.36	20.28	20.23	20.95	20.79	20.67	19.46	19.41	19.41
		25	12	21.00	21.01	20.96	20.39	20.40	20.30	20.95	20.81	20.80	19.49	19.45	19.47
		50	0	21.04	21.01	20.94	20.40	20.42	20.32	20.98	20.81	20.82	19.52	19.49	19.53

OUTPUT POWER FOR 5G NR n25 (15.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				371500	376500	381500	371500	376500	381500	371500	376500	381500	371500	376500	381500
15.0	BPSK	1	0	25.10	25.10	25.03	24.62	24.58	24.62	25.08	25.04	24.96	23.59	23.60	23.56
		1	1	25.65	25.70	25.70	25.19	25.20	25.12	25.70	25.65	25.64	24.20	24.20	24.14
		1	77	25.59	25.63	25.68	25.15	25.16	25.15	25.54	25.57	25.62	24.11	24.10	24.20
		1	78	24.99	25.02	25.10	24.57	24.56	24.53	25.01	24.99	25.07	23.53	23.51	23.60
		36	18	25.55	25.70	25.59	25.16	25.12	25.12	25.53	25.55	25.52	24.16	24.13	24.15
		75	0	24.97	24.92	24.96	24.55	24.50	24.45	24.88	24.93	24.97	23.54	23.48	23.52
	QPSK	1	0	24.55	24.61	24.51	24.18	24.07	24.10	24.49	24.56	24.56	23.09	22.79	23.06
		1	1	25.70	25.66	25.67	25.20	25.18	25.18	25.60	25.70	25.70	24.02	23.75	24.17
		1	77	25.65	25.61	25.62	25.18	25.16	25.18	25.52	25.59	25.21	24.14	24.13	24.18
		1	78	24.51	24.44	24.49	24.00	24.06	24.08	24.36	24.46	24.26	23.02	23.06	23.05
		36	18	25.66	25.60	25.59	25.19	25.11	25.20	25.60	25.64	25.58	24.18	24.02	24.14
		75	0	24.56	24.49	24.50	24.09	24.06	24.04	24.45	24.48	24.55	23.09	23.04	23.02
	16QAM	1	0	23.50	23.50	23.43	22.97	23.05	22.95	23.40	23.42	23.43	21.96	21.70	21.96
		1	1	24.40	24.36	24.48	24.03	24.06	24.00	24.40	24.48	24.37	23.07	22.79	23.01
		1	77	24.44	24.44	24.42	23.98	23.82	23.90	24.39	24.42	24.51	22.94	23.00	23.03
		1	78	23.41	23.46	23.42	22.93	22.83	22.93	23.34	23.46	23.44	21.90	21.92	21.85
		36	18	24.31	24.36	24.39	23.90	23.83	23.92	24.37	24.36	24.40	22.94	22.86	22.91
		75	0	23.35	23.38	23.42	22.93	22.90	22.93	23.44	23.40	23.42	21.98	21.94	21.93
	64QAM	1	0	22.97	22.92	22.83	22.48	22.53	22.41	22.86	22.91	22.97	21.53	21.46	21.37
		1	1	22.84	22.96	23.05	22.56	22.50	22.50	22.85	22.85	22.96	21.57	21.39	21.57
		1	77	22.93	22.86	22.95	22.53	22.40	22.37	22.87	22.89	22.89	21.46	21.55	21.50
		1	78	22.95	22.79	22.97	22.43	22.39	22.34	22.88	22.83	22.88	21.51	21.53	21.45
		36	18	22.89	22.88	22.94	22.48	22.36	22.41	22.90	22.87	22.86	21.43	21.45	21.47
		75	0	22.95	22.87	22.98	22.54	22.43	22.41	22.90	22.86	22.88	21.47	21.46	21.48
	256QAM	1	0	20.97	21.04	21.15	20.59	20.39	20.42	20.99	20.85	20.92	19.56	19.65	19.65
		1	1	21.02	20.88	21.07	20.45	20.51	20.44	20.92	20.94	20.80	19.60	19.59	19.57
		1	77	20.95	21.02	20.98	20.40	20.44	20.43	20.89	20.81	20.96	19.61	19.52	19.35
		1	78	20.91	21.13	20.91	20.52	20.44	20.35	20.65	20.90	20.84	19.64	19.49	19.55
		36	18	20.92	20.94	21.05	20.44	20.33	20.44	20.81	20.78	20.91	19.59	19.51	19.51
		75	0	20.98	20.97	21.05	20.45	20.35	20.45	20.81	20.80	20.89	19.62	19.55	19.57

OUTPUT POWER FOR 5G NR n25 (20.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				372000	376500	381000	372000	376500	381000	372000	376500	381000	372000	376500	381000
20.0	BPSK	1	0	25.05	24.94	25.06	24.59	24.53	24.50	24.99	25.06	25.07	23.52	23.55	23.59
		1	1	25.64	25.68	25.59	25.20	25.16	25.07	25.64	25.70	25.70	24.11	24.12	24.20
		1	104	25.70	25.69	25.58	25.10	25.14	25.03	25.65	25.66	25.64	24.20	24.17	24.15
		1	105	25.04	25.08	24.99	24.60	24.56	24.47	25.10	25.06	25.02	23.62	23.55	23.57
		50	25	25.67	25.69	25.70	25.12	25.12	25.11	25.58	25.64	25.60	24.17	24.12	24.15
		100	0	25.16	25.01	25.20	24.60	24.60	24.60	25.15	25.15	25.16	23.68	23.65	23.63
	QPSK	1	0	24.55	24.55	24.56	24.11	24.06	24.04	24.50	24.58	24.58	23.04	23.05	23.06
		1	1	25.67	25.54	25.53	25.13	25.20	25.20	25.59	25.67	25.58	23.97	24.19	24.14
		1	104	25.68	25.70	25.62	25.12	25.15	25.09	25.63	25.69	25.23	24.18	24.20	24.17
		1	105	24.60	24.52	24.55	24.00	24.06	23.98	24.55	24.62	24.17	23.10	23.07	23.12
		50	25	25.60	25.52	25.57	25.16	25.11	25.13	25.70	25.68	25.61	24.18	24.17	24.13
		100	0	24.67	24.53	24.54	24.13	24.13	24.12	24.67	24.71	24.61	23.22	23.18	23.21
	16QAM	1	0	23.47	23.40	23.41	22.96	22.89	22.98	23.44	23.39	23.51	21.95	21.94	21.94
		1	1	24.35	24.44	24.39	23.93	23.92	23.94	24.51	24.59	24.45	22.92	22.95	23.02
		1	104	24.47	24.31	24.36	23.92	23.90	23.81	24.54	24.46	24.45	22.99	22.96	23.02
		1	105	23.51	23.37	23.36	22.84	22.85	22.93	23.49	23.45	23.36	21.92	21.90	21.99
		50	25	24.48	24.34	24.38	23.95	23.90	23.91	24.51	24.52	24.47	22.93	22.93	23.03
		100	0	23.52	23.36	23.38	23.00	22.93	22.87	23.52	23.52	23.48	21.98	21.92	21.98
	64QAM	1	0	22.86	22.94	22.89	22.53	22.40	22.38	23.02	23.04	22.89	21.46	21.44	21.44
		1	1	23.11	22.91	22.87	22.58	22.44	22.40	23.02	22.86	22.96	21.42	21.47	21.51
		1	104	23.02	22.87	22.93	22.47	22.40	22.49	22.89	22.95	22.93	21.48	21.53	21.46
		1	105	23.02	22.79	22.79	22.47	22.45	22.41	22.96	22.92	22.99	21.48	21.43	21.48
		50	25	23.00	22.82	22.82	22.50	22.42	22.44	23.04	22.96	22.88	21.44	21.45	21.46
		100	0	23.03	22.83	22.82	22.49	22.44	22.43	23.01	22.94	22.92	21.43	21.43	21.46
	256QAM	1	0	20.88	20.90	21.00	20.49	20.30	20.39	20.81	20.99	20.89	19.48	19.45	19.38
		1	1	20.87	20.80	20.92	20.48	20.27	20.27	20.93	21.03	20.99	19.46	19.62	19.52
		1	104	21.11	20.95	20.86	20.37	20.32	20.31	20.78	20.96	20.92	19.58	19.43	19.55
		1	105	21.01	20.99	20.71	20.09	20.30	20.33	21.00	21.06	20.82	19.52	19.54	19.37
		50	25	21.06	21.00	20.94	20.43	20.38	20.41	20.94	20.97	20.97	19.63	19.53	19.52
		100	0	21.07	21.01	20.93	20.44	20.39	20.45	20.93	21.00	20.94	19.55	19.48	19.53

OUTPUT POWER FOR 5G NR n25 (25.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				372500	376500	380500	372500	376500	380500	372500	376500	380500	372500	376500	380500
25.0	BPSK	1	0	24.95	25.04	25.04	24.53	24.44	24.69	25.00	25.13	25.14	23.52	23.54	23.54
		1	1	25.58	25.54	25.70	25.15	25.10	25.16	25.70	25.70	24.13	24.20	24.20	
		1	132	25.58	25.70	25.60	24.99	25.17	25.20	25.60	25.67	25.70	24.15	24.17	24.17
		1	131	25.02	24.96	25.08	24.48	24.55	24.65	25.02	25.13	25.06	23.60	23.55	23.60
		64	32	25.53	25.46	25.52	25.02	24.92	25.05	25.54	25.56	25.55	24.06	24.12	24.02
		128	0	24.92	24.84	24.91	24.43	24.35	24.47	24.92	24.96	25.01	23.47	23.48	23.48
	QPSK	1	0	24.42	24.47	24.45	24.09	23.94	24.09	24.52	24.55	24.60	23.07	23.03	23.03
		1	1	25.53	25.63	25.61	25.20	25.11	25.10	25.62	25.68	25.69	24.10	24.14	24.19
		1	132	25.70	25.61	25.17	25.13	25.20	25.14	25.58	25.60	25.12	24.20	24.20	24.10
		1	131	24.57	24.48	24.18	23.97	24.05	24.11	24.49	24.57	24.23	23.05	23.00	23.20
		64	32	25.43	25.48	25.43	25.01	24.98	25.07	25.51	25.57	25.58	24.09	24.00	24.06
		128	0	24.32	24.43	24.40	23.88	23.93	23.97	24.40	24.43	24.53	22.97	22.90	22.93
	16QAM	1	0	23.22	23.41	23.23	22.99	22.87	22.96	23.29	23.46	23.51	21.98	21.99	21.97
		1	1	24.34	24.45	24.32	23.98	23.92	23.97	24.41	24.46	24.46	22.86	23.01	22.94
		1	132	24.45	24.32	24.40	23.83	23.95	23.93	24.34	24.39	24.32	22.95	23.07	22.93
		1	131	23.40	23.30	23.40	22.85	23.09	22.94	23.39	23.46	23.23	21.89	21.91	21.92
		64	32	24.32	24.26	24.21	23.77	23.80	23.90	24.31	24.30	24.36	22.82	22.86	22.88
		128	0	23.33	23.22	23.32	22.82	22.84	22.90	23.34	23.38	23.36	21.80	21.84	21.89
	64QAM	1	0	22.76	22.76	23.00	22.37	22.52	22.46	22.86	23.07	22.85	21.39	21.37	21.54
		1	1	22.88	22.88	22.96	22.50	22.43	22.48	22.98	22.91	22.92	21.38	21.41	21.61
		1	132	22.95	22.91	22.78	22.41	22.48	22.46	22.86	23.09	22.91	21.42	21.31	21.55
		1	131	22.94	22.81	22.93	22.35	22.36	22.38	22.90	22.90	21.37	21.46	21.41	
		64	32	22.74	22.81	22.85	22.30	22.33	22.46	22.87	22.86	22.88	21.34	21.33	21.34
		128	0	22.74	22.78	22.79	22.28	22.30	22.45	22.76	22.89	22.86	21.30	21.33	21.27
	256QAM	1	0	20.92	20.96	21.02	20.31	20.27	20.42	20.89	20.81	20.73	19.42	19.26	19.56
		1	1	20.95	21.01	20.99	20.34	20.52	20.58	20.88	21.10	20.96	19.38	19.42	19.49
		1	132	20.93	20.87	20.71	20.23	20.22	20.23	20.71	20.75	20.88	19.35	19.51	19.51
		1	131	20.94	20.85	20.78	20.19	20.32	20.35	20.88	20.81	20.66	19.19	19.42	19.50
		64	32	20.89	20.84	20.94	20.31	20.38	20.38	20.81	20.82	20.82	19.29	19.45	19.43
		128	0	20.93	20.89	20.90	20.29	20.33	20.37	20.80	20.84	20.87	19.30	19.42	19.42

OUTPUT POWER FOR 5G NR n25 (30.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				373000	376500	380000	373000	376500	380000	373000	376500	380000	373000	376500	380000
30.0	BPSK	1	0	25.02	24.99	25.07	24.63	24.45	24.54	25.12	25.15	24.97	23.51	23.54	23.51
		1	1	25.70	25.70	25.68	25.20	25.12	25.20	25.67	25.60	25.68	24.11	24.01	24.04
		1	158	25.66	25.61	25.70	25.16	25.11	25.07	25.62	25.70	25.66	24.20	24.20	24.20
		1	159	25.08	25.00	25.10	24.48	24.47	24.51	25.01	25.12	25.03	23.56	23.49	23.57
		80	40	25.59	25.52	25.62	25.07	25.03	25.03	25.57	25.52	25.58	24.08	24.01	24.03
		160	0	24.97	24.94	25.08	24.48	24.37	24.48	25.00	24.94	25.00	23.53	23.41	23.44
	QPSK	1	0	24.46	24.53	24.66	24.09	23.92	23.99	24.59	24.51	24.59	22.96	22.98	23.02
		1	1	25.64	25.59	25.70	25.20	25.07	25.11	25.70	25.67	25.70	24.20	24.16	24.10
		1	158	25.69	25.68	25.40	25.20	25.20	25.13	25.67	25.58	25.10	24.08	24.11	24.14
		1	159	24.55	24.48	24.47	24.03	24.03	24.00	24.59	24.44	24.18	23.04	23.05	23.04
		80	40	25.52	25.52	25.60	25.07	25.03	25.03	25.64	25.58	25.54	24.06	24.04	23.99
		160	0	24.45	24.41	24.50	24.02	23.93	23.95	24.59	24.45	24.48	23.01	22.98	22.91
	16QAM	1	0	23.32	23.38	23.64	22.97	22.73	22.88	23.58	23.45	23.37	21.99	22.09	21.87
		1	1	24.29	24.30	24.52	24.11	23.94	23.97	24.47	24.43	24.39	22.89	22.89	23.01
		1	158	24.34	24.45	24.40	24.00	23.97	23.87	24.41	24.46	24.31	22.81	22.95	22.79
		1	159	23.61	23.34	23.58	22.85	22.84	22.79	23.33	23.24	23.40	21.92	21.89	21.83
		80	40	24.34	24.35	24.43	23.85	23.78	23.88	24.39	24.35	24.30	22.89	22.89	22.90
		160	0	23.38	23.44	23.45	22.87	22.78	22.87	23.37	23.34	23.37	21.90	21.90	21.88
	64QAM	1	0	22.79	22.97	23.10	22.46	22.40	22.39	22.83	22.84	22.84	21.45	21.41	21.44
		1	1	22.94	22.86	22.89	22.46	22.35	22.28	23.00	23.09	22.99	21.49	21.40	21.27
		1	158	22.94	22.88	22.95	22.43	22.31	22.50	22.94	22.88	22.81	21.40	21.36	21.30
		1	159	23.13	22.90	23.16	22.31	22.45	22.57	22.94	22.96	22.83	21.42	21.34	21.37
		80	40	22.83	22.83	22.94	22.34	22.36	22.42	22.88	22.87	22.86	21.36	21.36	21.33
		160	0	22.86	22.86	22.94	22.35	22.33	22.41	22.91	22.88	22.94	21.34	21.37	21.32
	256QAM	1	0	20.96	21.03	21.15	20.43	20.38	20.43	21.00	21.02	21.02	19.43	19.36	19.37
		1	1	21.02	20.95	21.05	20.28	20.27	20.47	20.93	20.98	20.83	19.39	19.50	19.40
		1	158	21.11	21.04	21.00	20.32	20.28	20.43	20.98	20.94	20.79	19.57	19.42	19.46
		1	159	20.87	21.01	21.16	20.39	20.18	20.26	20.86	21.02	20.85	19.49	19.50	19.45
		80	40	20.95	20.96	21.07	20.36	20.29	20.34	20.94	20.84	20.77	19.48	19.45	19.39
		160	0	20.91	21.03	21.04	20.38	20.31	20.35	20.93	20.82	20.82	19.51	19.45	19.41

OUTPUT POWER FOR 5G NR n25 (35.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				373500	376500	379500	373500	376500	379500	373500	376500	379500	373500	376500	379500
35.0	BPSK	1	0	1867.5	1882.5	1897.5	1867.5	1882.5	1897.5	1867.5	1882.5	1897.5	1867.5	1882.5	1897.5
		1	0	25.18	24.83	24.67	24.17	24.14	24.38	24.68	24.67	24.10	23.48	22.84	22.45
		1	1	25.40	25.40	25.24	24.78	24.90	25.02	25.40	25.40	25.44	23.96	23.30	22.97
		1	186	25.25	25.26	25.40	24.90	24.61	24.93	25.07	25.21	25.28	22.92	23.98	23.90
		1	187	24.89	24.86	24.75	24.18	24.27	24.46	24.58	24.74	24.95	22.36	23.49	23.14
		90	45	25.20	25.34	25.37	24.86	24.71	25.02	25.38	25.32	25.54	23.09	23.10	23.84
	QPSK	180	0	24.66	24.79	24.77	24.29	24.22	24.39	24.79	24.75	24.90	22.57	22.60	23.21
		1	0	24.69	24.63	24.52	24.07	24.31	24.32	24.68	24.44	24.62	23.35	22.57	22.27
		1	1	25.55	25.70	25.70	25.11	25.20	25.14	25.47	25.70	25.55	24.20	23.51	23.31
		1	186	25.67	25.60	25.29	24.97	24.96	25.16	25.49	25.63	25.37	23.08	24.20	24.01
		1	187	24.50	24.55	24.57	24.05	24.09	24.08	24.43	24.55	24.34	22.13	23.20	23.10
		90	45	25.70	25.59	25.56	25.20	25.02	25.20	25.70	25.59	25.70	23.29	23.28	24.20
	16QAM	180	0	24.58	24.56	24.54	24.07	23.97	24.12	24.49	24.60	24.71	22.36	22.44	22.98
		1	0	24.16	24.31	24.32	24.04	23.74	23.83	24.14	24.19	24.40	23.13	22.29	21.87
		1	1	25.00	25.00	24.98	25.01	24.86	25.00	25.07	25.04	25.35	24.06	23.23	23.18
		1	186	25.15	24.50	25.01	24.88	24.81	24.86	25.17	24.85	25.28	22.91	23.73	23.64
		1	187	24.07	24.16	24.03	23.76	23.63	23.56	24.09	24.00	24.28	21.74	22.84	22.39
		90	45	25.12	24.90	24.66	24.63	24.90	24.78	25.20	24.91	25.42	22.88	22.99	23.66
	64QAM	180	0	24.12	24.28	24.14	23.71	23.82	23.76	24.20	24.01	24.34	22.05	22.02	22.52
		1	0	23.83	23.95	23.83	23.00	23.38	23.37	23.55	23.49	23.74	22.52	21.53	21.25
		1	1	23.87	23.92	23.86	23.43	23.57	22.97	23.51	23.62	23.88	22.35	21.64	21.39
		1	186	23.71	23.76	23.98	23.22	23.26	23.44	23.77	23.75	23.94	21.45	22.29	22.14
		1	187	23.68	23.62	23.54	23.08	23.36	23.63	23.41	23.42	24.03	21.34	22.50	21.80
		90	45	23.78	23.79	23.61	23.19	23.38	23.27	23.61	23.51	24.00	21.39	21.44	22.24
	256QAM	180	0	23.73	23.70	23.62	23.20	23.33	23.29	23.58	23.49	23.89	21.47	21.52	22.04
		1	0	21.72	21.53	21.25	20.82	21.62	21.24	21.67	21.34	22.05	20.32	19.63	19.35
		1	1	21.73	21.93	21.72	20.97	21.25	21.51	21.48	21.77	21.90	20.31	19.44	19.25
		1	186	21.92	22.69	21.76	21.12	21.27	21.49	21.51	21.53	21.84	19.31	20.30	20.04
		1	187	21.43	22.43	21.36	21.00	21.37	21.04	21.94	21.40	21.61	19.25	20.16	20.10
		90	45	21.76	22.51	21.64	21.20	21.40	21.19	21.63	21.46	21.93	19.31	19.32	20.14
		180	0	21.69	22.54	21.53	21.10	21.46	21.27	21.55	21.50	22.00	19.52	19.54	19.96

OUTPUT POWER FOR 5G NR n25 (40.0 MHz)

Bandwidth (MHz)	Modulation	RB Allocation	RB Offset	Conducted Average (dBm)											
				ANT 3			ANT 4			ANT 2			ANT 1		
				374000	376500	379000	374000	376500	379000	374000	376500	379000	374000	376500	379000
40.0	BPSK	1	0	1870.0	1882.5	1895.0	1870.0	1882.5	1895.0	1870.0	1882.5	1895.0	1870.0	1882.5	1895.0
		1	1	25.01	25.01	25.00	24.57	24.61	24.54	25.05	25.22	25.08	23.52	23.54	23.51
		1	1	25.68	25.56	25.61	25.10	25.20	25.10	25.70	25.69	25.70	24.15	24.20	24.16
		1	214	25.61	25.70	25.66	25.00	25.07	25.13	25.57	25.64	25.63	24.20	24.10	24.20
		1	215	25.07	25.09	24.96	24.49	24.47	24.49	25.01	25.14	25.07	23.55	23.54	23.63
		108	54	25.55	25.53	25.56	24.95	25.01	25.02	25.52	25.55	25.61	24.03	23.99	24.02
	QPSK	216	0	25.05	25.05	25.11	24.52	24.51	24.50	25.01	25.13	25.19	23.61	23.51	23.57
		1	0	24.44	24.50	24.48	24.04	24.02	24.00	24.47	24.67	24.63	23.02	22.98	23.08
		1	1	25.66	25.67	25.70	25.20	25.08	25.19	25.70	25.70	25.69	24.10	24.11	24.13
		1	214	25.70	25.65	25.24	25.04	25.15	25.20	25.64	25.68	25.22	24.20	24.17	24.18
		1	215	24.55	24.51	24.30	23.90	24.02	24.03	24.59	24.58	24.33	23.10	22.99	23.10
		108	54	25.64	25.65	25.59	25.02	24.98	25.06	25.59	25.66	25.68	24.12	24.04	24.06
	16QAM	216	0	24.65	24.63	24.64	24.03	24.07	24.11	24.61	24.66	24.74	23.15	23.07	23.09
		1	0	23.41	23.38	23.53	22.76	23.02	23.00	23.42	23.66	23.53	21.93	21.89	21.83
		1	1	24.50	24.51	24.36	24.08	23.92	23.96	24.49	24.30	24.62	22.96	22.91	22.86
		1	214	24.60	24.55	24.46	23.83	23.83	23.92	24.17	24.39	24.37	23.09	23.03	22.78
		1	215	23.52	23.51	23.22	22.77	22.86	22.84	23.34	23.39	23.41	21.98	21.96	21.85
		108	54	24.48	24.46	24.37	23.87	23.79	23.89	24.35	24.40	24.53	22.95	22.89	22.98
	64QAM	216	0	23.44	23.43	23.35	22.86	22.78	22.83	23.38	23.40	23.47	21.94	21.87	21.89
		1	0	23.09	22.95	22.87	22.43	22.44	22.60	22.94	23.03	22.96	21.34	21.49	21.49
		1	1	22.93	22.97	22.88	22.35	22.41	22.31	22.92	23.04	23.04	21.42	21.55	21.54
		1	214	22.93	22.97	22.79	22.37	22.47	22.54	22.96	22.97	23.03	21.40	21.34	21.32
		1	215	22.93	22.86	22.75	22.60	22.44	22.38	22.89	22.91	23.04	21.36	21.32	21.38
		108	54	22.92	22.93	22.92	22.30	22.39	22.49	22.86	22.89	22.98	21.42	21.46	21.44
	256QAM	216	0	22.89	22.86	22.89	22.32	22.38	22.38	22.85	22.89	22.97	21.42	21.42	21.45
		1	0	20.97	20.93	20.85	20.38	20.28	20.27	20.86	20.91	20.75	19.36	19.52	19.51
		1	1	20.96	20.87	20.81	20.44	20.16	20.27	20.93	20.91	20.86	19.45	19.57	19.51
		1	214	21.01	20.82	21.00	20.35	20.22	20.31	20.89	20.90	20.89	19.66	19.51	19.42
		1	215	21.02	21.04	21.10	20.18	20.20	20.31	20.81	21.03	20.83	19.54	19.40	19.47
		108	54	21.01	21.00	20.95	20.33	20.32	20.36	20.84	20.96	20.97	19.53	19.50	19.49
		216	0	21.01	20.94	20.91	20.32	20.29	20.35	20.85	20.90	20.99	19.50	19.47	19.50

9. CONDUCTED TEST RESULTS

9.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049
ISED: RSS133

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.

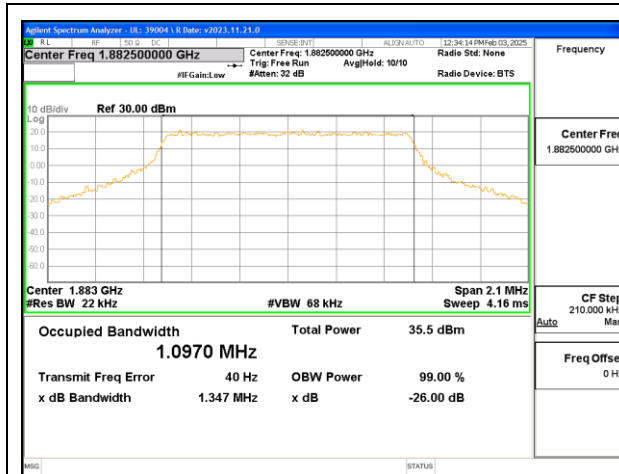
LTE BAND 25

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
LTE BAND 25	1.4MHz, QPSK	6/0	1882.5	1.097	1.35
	1.4MHz, 16QAM			1.096	1.42
	3MHz, QPSK	15/0		2.706	3.05
	3MHz, 16QAM			2.704	3.09
	5MHz, QPSK	25/0		4.499	5.16
	5MHz, 16QAM			4.501	5.09
	10MHz, QPSK	50/0		8.983	9.88
	10MHz, 16QAM			8.985	9.94
	15MHz, QPSK	75/0		13.468	14.80
	15MHz, 16QAM			13.466	14.87
	20MHz, QPSK	100/0		17.938	19.68
	20MHz, 16QAM			17.945	19.49
	20MHz, QPSK	1/0		0.281	0.50

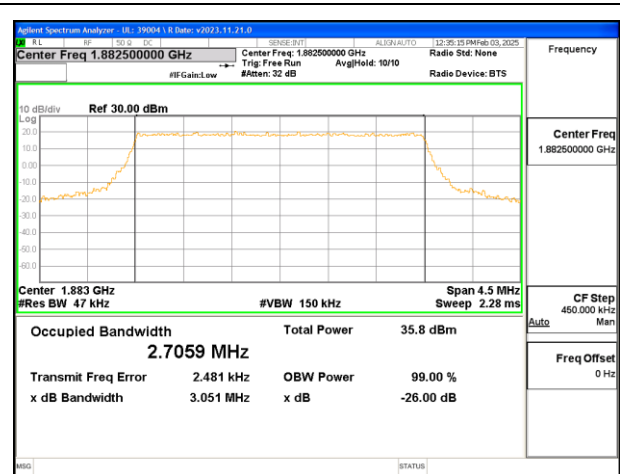
5G NR n25

Band	Mode	RB Allocation/RB Offset	f(MHz)	99% BW (MHz)	-26dB BW (MHz)
5G NR n25	5MHz, BPSK	25/0	1882.5	4.513	5.19
	5MHz, QPSK			4.521	5.24
	5MHz, 16QAM			4.507	5.27
	10MHz, BPSK	50/0		8.994	9.90
	10MHz, QPSK			8.997	9.87
	10MHz, 16QAM			8.990	9.86
	15MHz, BPSK	75/0		13.481	14.44
	15MHz, QPSK			13.483	14.59
	15MHz, 16QAM			13.474	14.56
	20MHz, BPSK	100/0		17.952	19.09
	20MHz, QPSK			17.958	19.16
	20MHz, 16QAM			17.936	19.19
	25MHz, BPSK	128/0		22.939	24.28
	25MHz, QPSK			22.956	24.43
	25MHz, 16QAM			22.938	24.40
	30MHz, BPSK	160/0		28.662	30.77
	30MHz, QPSK			28.669	30.40
	30MHz, 16QAM			28.728	30.27
	35MHz, BPSK	180/0		32.256	34.07
	35MHz, QPSK			32.273	34.02
	35MHz, 16QAM			32.228	34.08
	40MHz, BPSK	216/0		38.703	40.75
	40MHz, QPSK			38.669	40.70
	40MHz, 16QAM			38.780	40.79
		40MHz, BPSK		1/0	

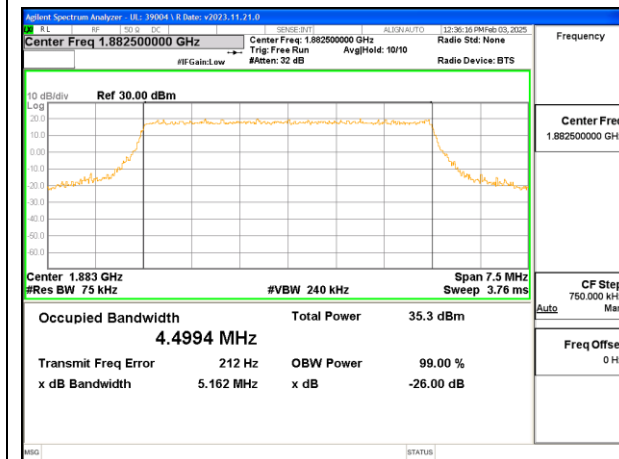
9.1.1. LTE BAND 25



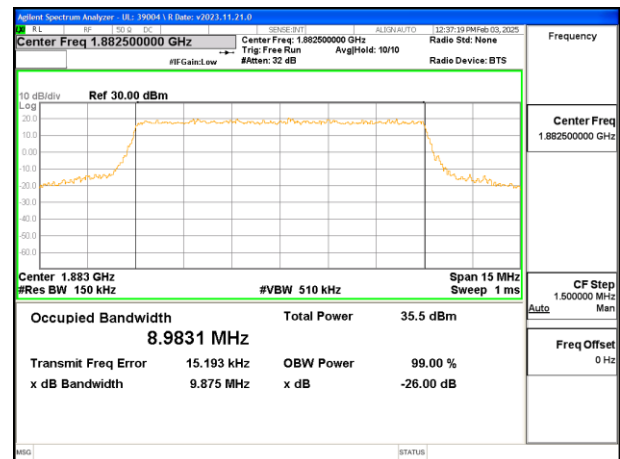
LTE B25 1.4MHz QPSK Middle Channel RB6-0



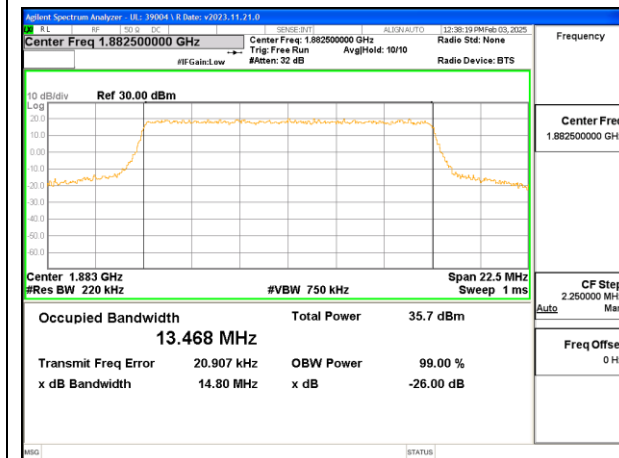
LTE B25 3MHz QPSK Middle Channel RB15-0



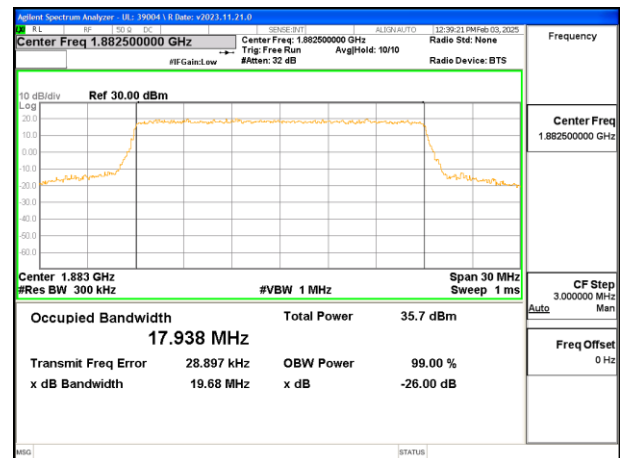
LTE B25 5MHz QPSK Middle Channel RB25-0



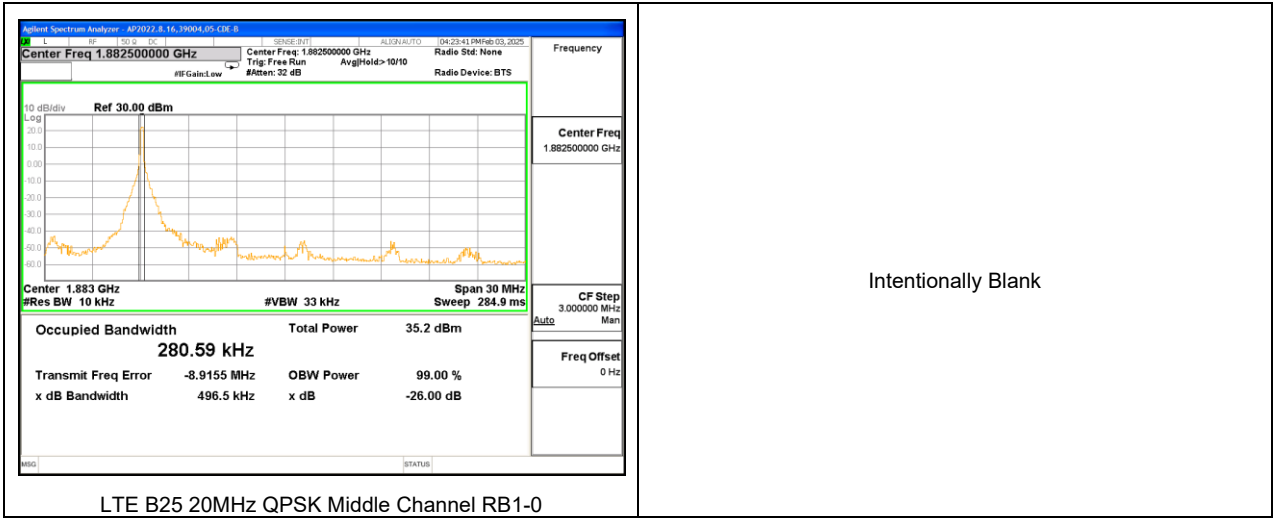
LTE B25 10MHz QPSK Middle Channel RB50-0



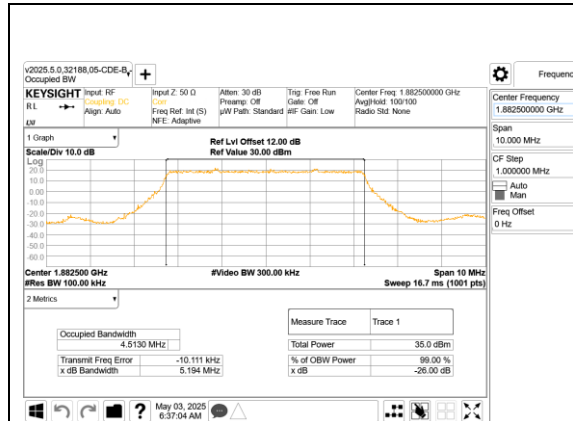
LTE B25 15MHz QPSK Middle Channel RB75-0



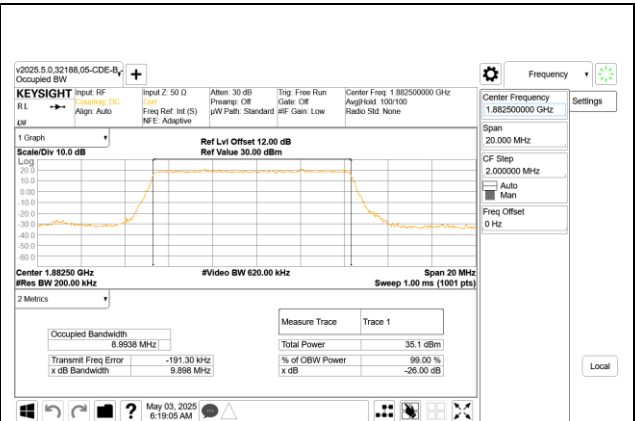
LTE B25 20MHz QPSK Middle Channel RB100-0



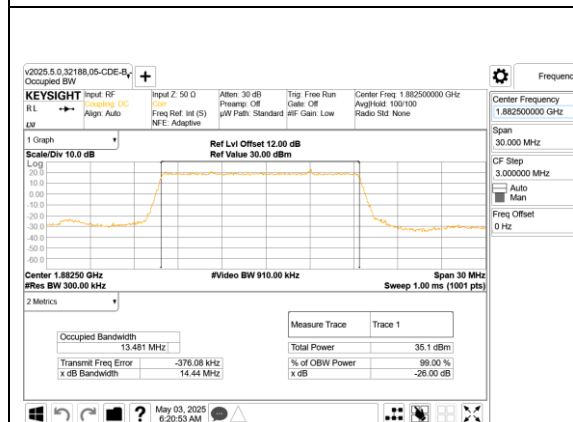
9.1.2. 5G NR n25



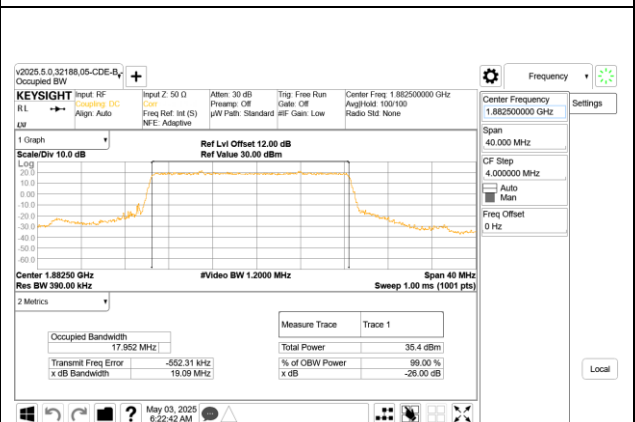
5G NR n25 5MHz BPSK Middle Channel RB25-0



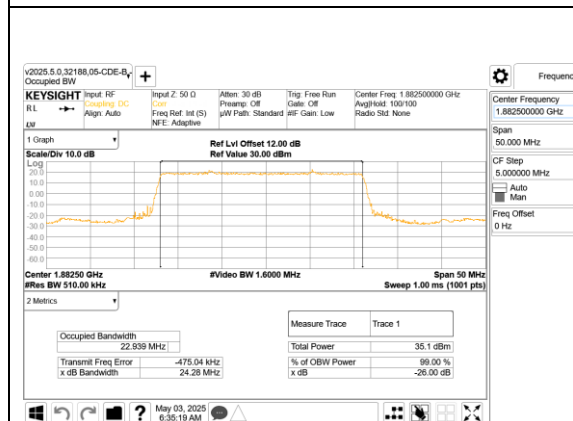
5G NR n25 10MHz BPSK Middle Channel RB50-0



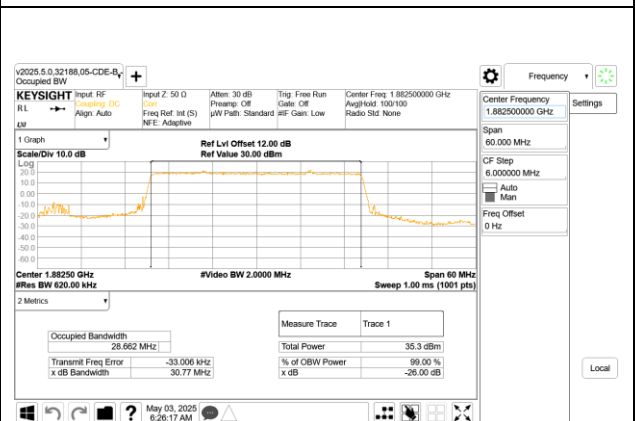
5G NR n25 15MHz BPSK Middle Channel RB75-0



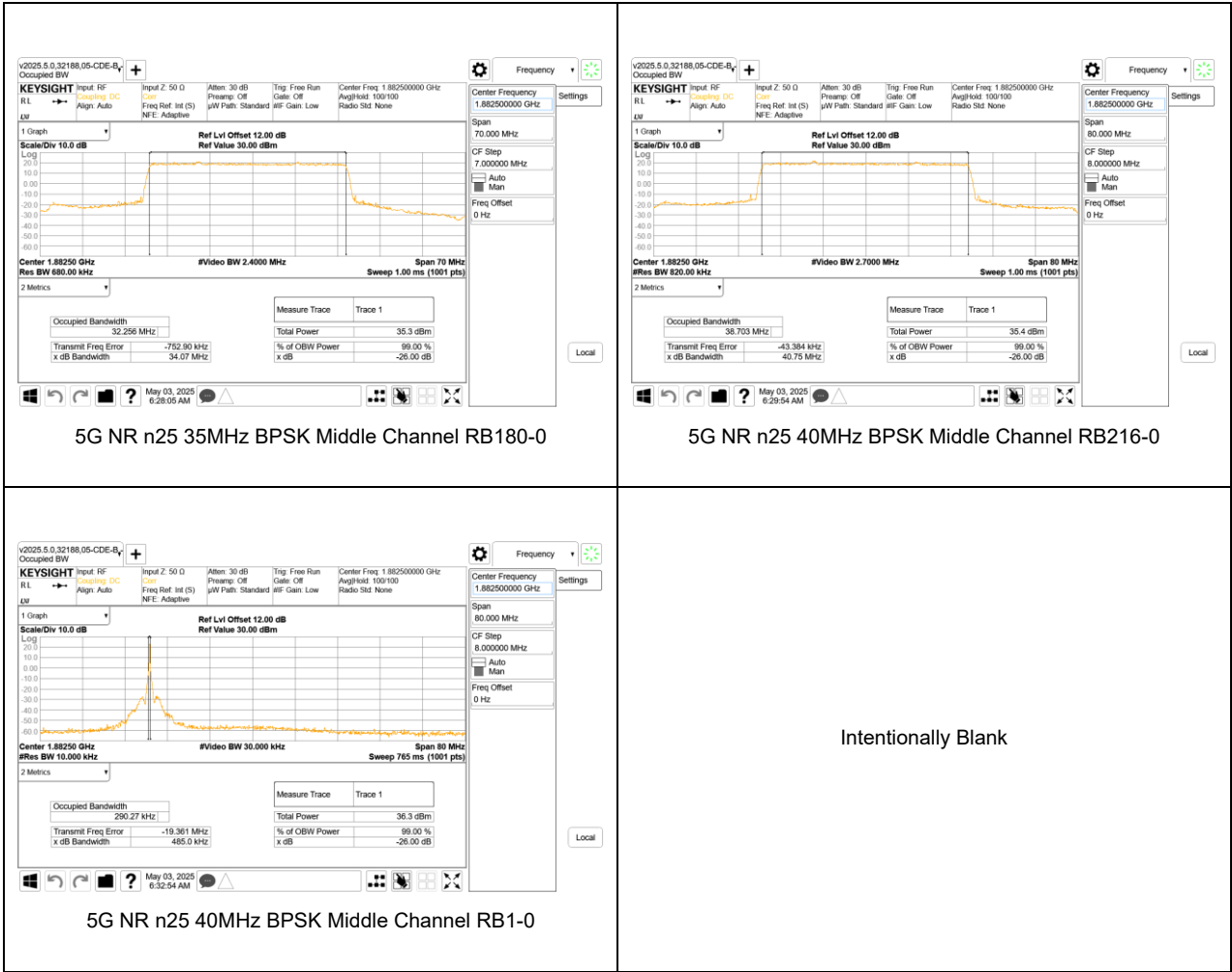
5G NR n25 20MHz BPSK Middle Channel RB100-0



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



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



9.2. EMISSION MASK AND ADJACENT CHANNEL POWER

LIMITS

FCC: §24.238 (a)

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

ISED: RSS133§5.6

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the table 3.

Table 3: Unwanted emission limits for all equipment	
Offset frequency from the edge of the frequency block group (MHz)	Unwanted emission limit
≤ 1	-13 dBm/(1% of OBW)
> 1	-13 dBm/MHz

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.

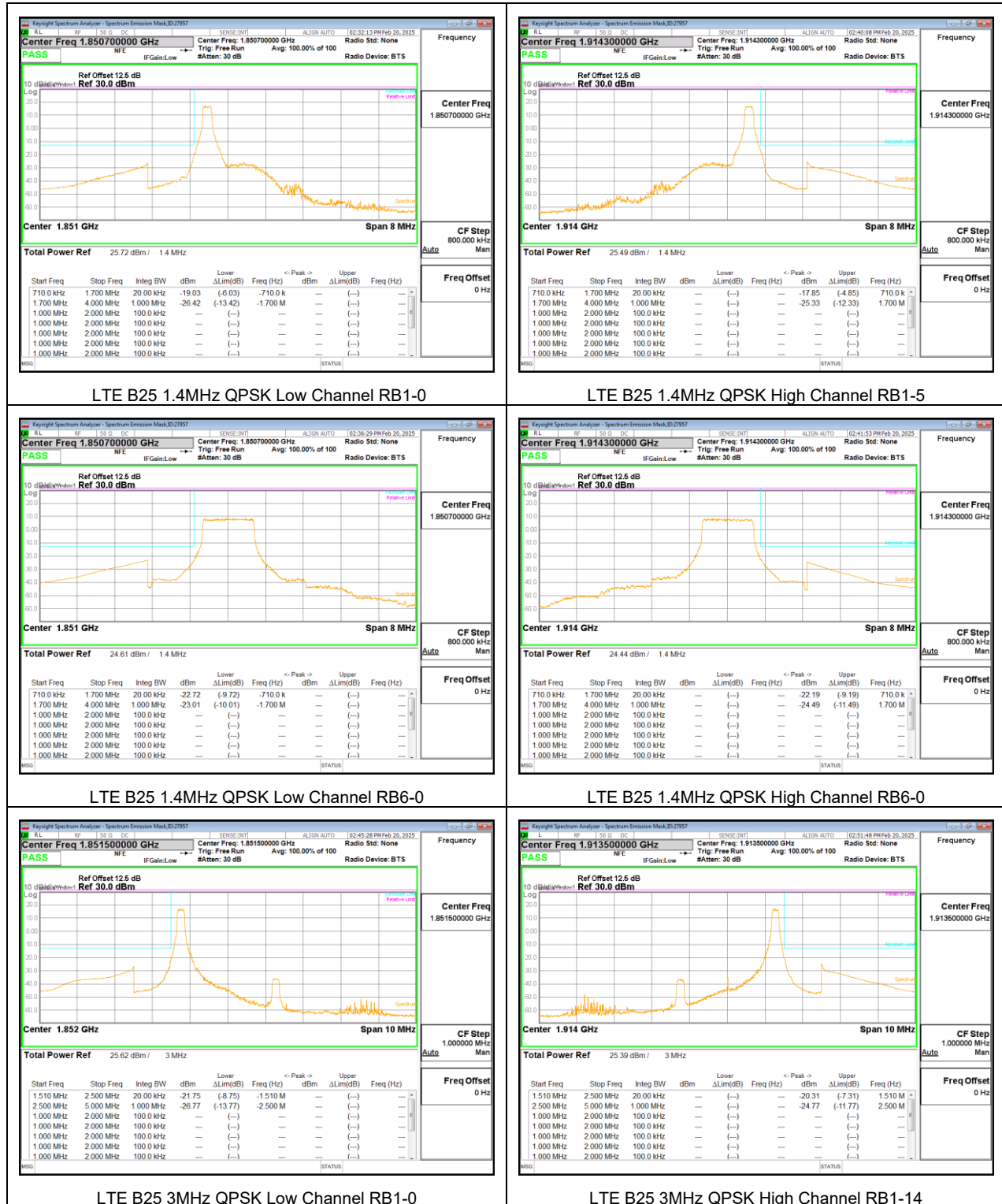
The transmitter output was connected to a base station simulator and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

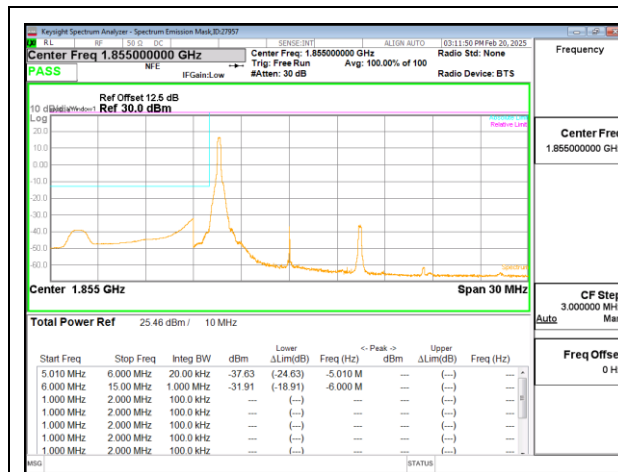
1. Set the spectrum analyzer span to include the block edge frequency.
2. Set a marker to point the corresponding band edge frequency in each test case.
3. Set display line at -13 dBm
4. Set resolution bandwidth to at least 1% of emission bandwidth.

RESULTS

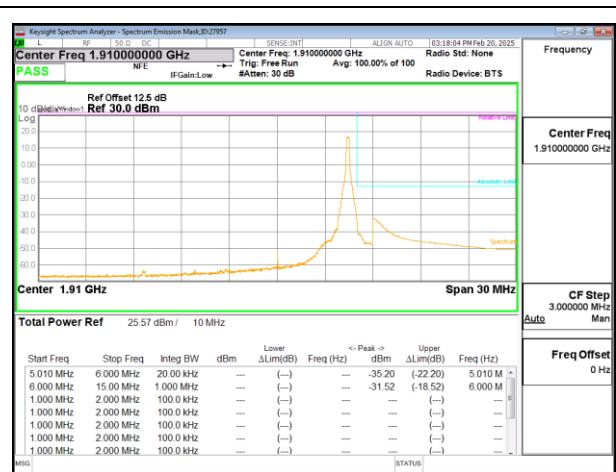
9.2.1. LTE BAND 25



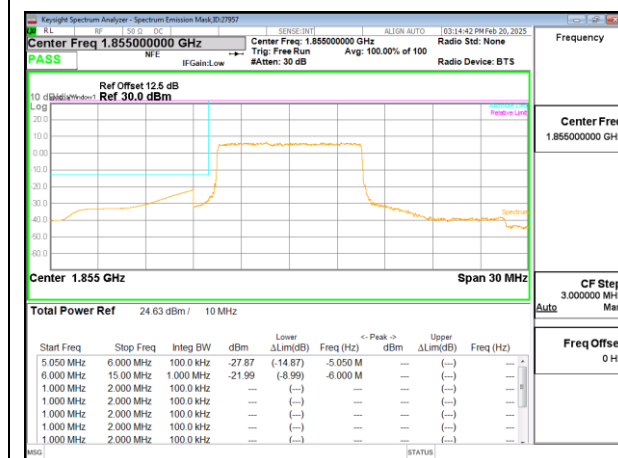




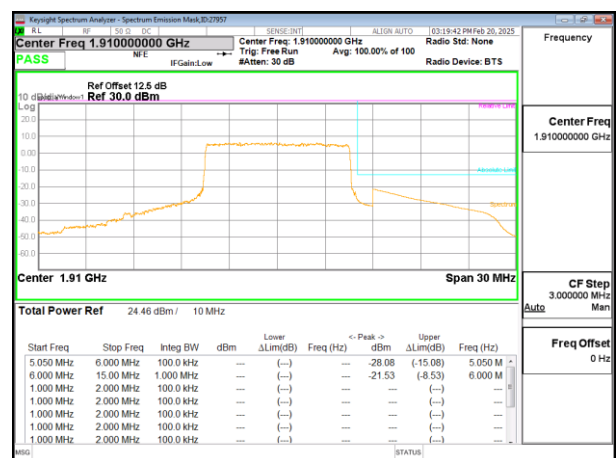
LTE B25 10MHz QPSK Low Channel RB1-0



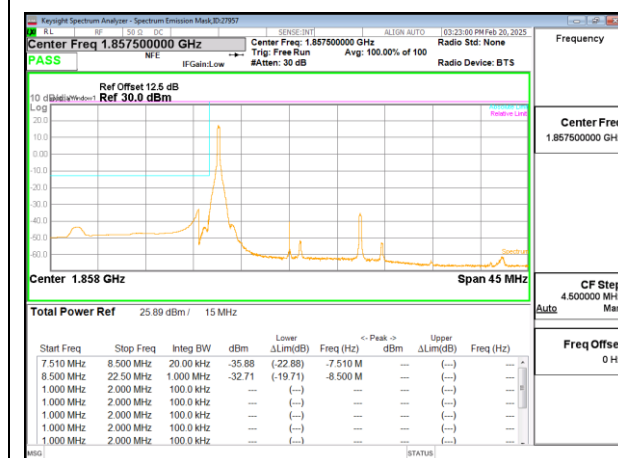
LTE B25 10MHz QPSK High Channel RB1-49



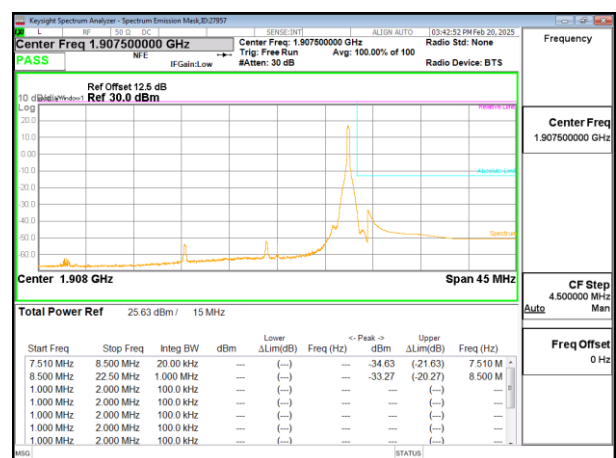
LTE B25 10MHz QPSK Low Channel RB50-0



LTE B25 10MHz QPSK High Channel RB50-0



LTE B25 15MHz QPSK Low Channel RB1-0



LTE B25 15MHz QPSK High Channel RB1-74



9.2.2. 5G NR n25

