



FCC RADIO TEST REPORT

FCC ID : A4RGPQQ7
Equipment : Phone
Model Name : GPQQ7
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, CA, 94043 USA
Standard : FCC 47 CFR Part 2, 96

The product was received on Nov. 20, 2025 and testing was performed from Nov. 20, 2025 to May. 29, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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Appendix A Conducted Test Result Page No. Information								
NR Band	Appendix	PAR	26dB BW	OBW	Mask	ACLR	CSE	FS
SISO 48	An48	An48-1	An48-6	An48-12	An48-18	An48-39	An48-60	An48-65
MIMO 48 Ant6	An48M0	An48M0 -1	An48M0 -7	An48M0 -11	An48M0 -15	An48M0 -36	An48M0 -57	An48M0 -62
MIMO 48 Ant1	An48M1	An48M1 -1	An48M1 -7	An48M1 -11	An48M1 -15	An48M1 -36	An48M1 -57	An48M1 -62



History of this test report

Report No.	Version	Description	Issue Date
FG5N0809-01E	01	Initial issue of report	Apr. 22, 2026
FG5N0809-01E	02	Add PAR Full Bandwidth test data	May 29, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
3.3	§96.41	Peak-to-Average Ratio	Pass	-
3.4	§96.41	Effective Isotropic Radiated Power	Pass	-
3.5	§2.1049 §96.41	Occupied Bandwidth	Pass	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	-
3.7	§2.1051 §96.41	Conducted Spurious Emission	Pass	-
3.8	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1053 §96.41	Radiated Spurious Emission	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: William Chen

Report Producer: Shannon Huang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE/5G NR/NTN , Bluetooth, BLE, BLE channel sounding, Wi-Fi 802.11ax, NFC, WPC Rx and GNSS Rx.
Antenna Type WWAN: <Ant. 1>: IFA Antenna <Ant. 5>: IFA Antenna <Ant. 6>: IFA Antenna <Ant. 7>: IFA Antenna

EUT Information List	
S/N	Performed Test Item
5B081FDDX0002T	Conducted Measurement EIRP
5B111FDDX000D8	Radiated Spurious Emission

Support band and evaluated information	
Supported band	n48
Evaluated and Tested band	n48

Antenna information						
Band	Ant1	Ant5	Ant6	Ant7	Main Ant. #	Sub Ant. #
n48	1.5	0.2	1.7	2.7	6	7
MIMO Antenna information						
Band	Ant6+1	Ant6+5	Ant7+1	Ant7+5		
n48	1.7	1.7	2.7	2.7	Uncorrelated	

Remark:

1. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
2. For Test Items, Main Ant. means Tx0 and Sub Ant. means Tx1.
3. After preliminary scan for MIMO modes, Antenna 6+1 for n48 is selected as the worst mode to be reported for conducted test.
4. The MIMO n48 composite gain is based on KDB 662911 D01 uncorrelated highest antenna gain.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Site

Test Site	Sporton International Inc. Wensan Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	TH05-HY	03CH12-HY
Test Engineer	Kelvin Lu / Mike Yeh / Ching Chen / Luffy Lin / Hank Chen / George Chen	Tim Lee 、 Wilson Wu 、 Gerry Wei
Temperature (℃)	20.3~22.3	20~25
Relative Humidity (%)	50.3~55.1	50~60

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW3786

1.4 Applied Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find worst plane as below.

Plane	Main Antenna	Sub Antenna
n48	Y with Adapter	Z with Adapter
n48 MIMO	Y with Adapter	Z with Adapter

Modulation Type	Modulation	Modulation Type	Modulation
A	DFT-s-OFDM PI/2 BPSK	N/A	N/A
B	DFT-s-OFDM QPSK	F	CP-OFDM QPSK
C	DFT-s-OFDM 16QAM	G	CP-OFDM 16QAM
D	DFT-s-OFDM 64QAM	H	CP-OFDM 64QAM
E	DFT-s-OFDM 256QAM	I	CP-OFDM 256QAM

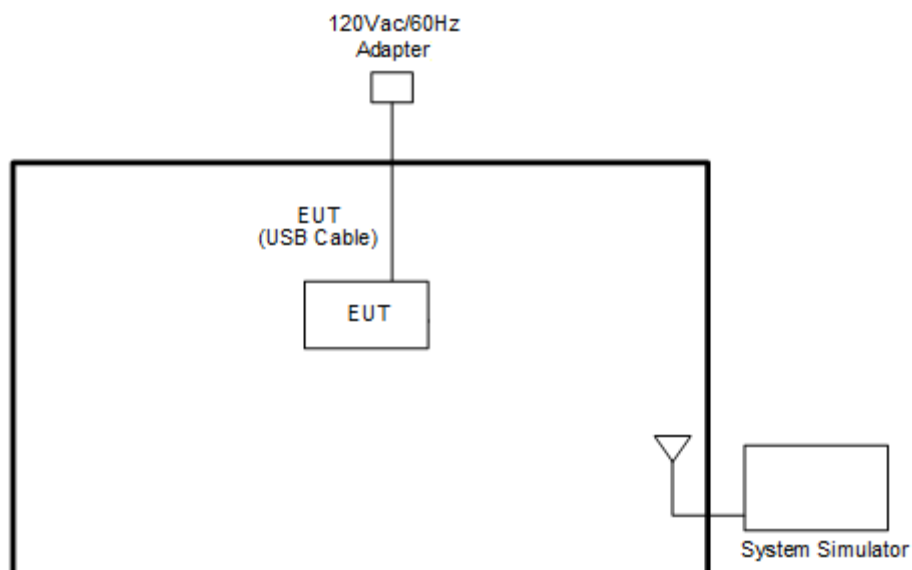
Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D, E (SISO) F, G, H, I (MIMO)	All	1, Half, Full	L, M, H
EIRP	A, B, C, D, E (SISO) F, G, H, I (MIMO)	All	1, Half, Full	L, M, H
PAR	A, B, C, D, E, F, G, H, I (SISO) F, G, H, I (MIMO)	All	Outer_Full	M
Bandwidth	A, F, G, H, I (SISO) F, G, H, I (MIMO)	All	Outer_Full	M
ACLR, Mask	A, B, C, D, E, F, G, H, I	Minimum BW	Outer_1RB	L, M, H
		All	Outer_Full	
CSE	B (SISO) F (MIMO)	Minimum BW	Inner_1RB	L, M, H
Frequency Stability	A (SISO) F (MIMO)	20 MHz or less	Outer_Full	M
RSE	A or B (SISO, MIMO)	20 MHz or less	Inner_1RB	L, M, H

Remark:

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. The PAR result is stable for each supported bandwidth so only one representative bandwidth among all supported bandwidths is selected for PAR testing.
3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.
4. During the RSE preliminary test, the standalone mode and charging modes (Adapter mode and WPC Rx mode) were verified. It is determined that the adapter mode is the worst case for the official test.

2.2 Connection Diagram of Test System

<EUT with Adapter>



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	AC Adapter	N/A	GW8L7	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.5 dB and 10dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.5 + 10 = 14.5 \text{ (dB)}\end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

5G NR Band 48 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	638000	641666	645332
	Frequency	3570	3624.99	3679.98
30	Channel	637668	641666	645666
	Frequency	3565.02	3624.99	3684.99
20	Channel	637334	641666	646000
	Frequency	3560.01	3624.99	3690
15	Channel	637168	641666	646166
	Frequency	3557.52	3624.99	3692.49
10	Channel	637000	641666	646332
	Frequency	3555	3624.99	3694.98

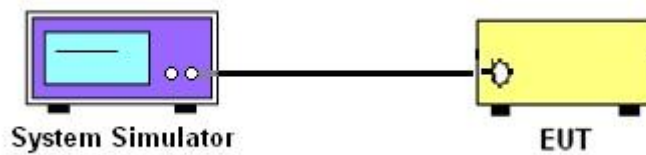
3 Conducted Test Items

3.1 Measuring Instruments

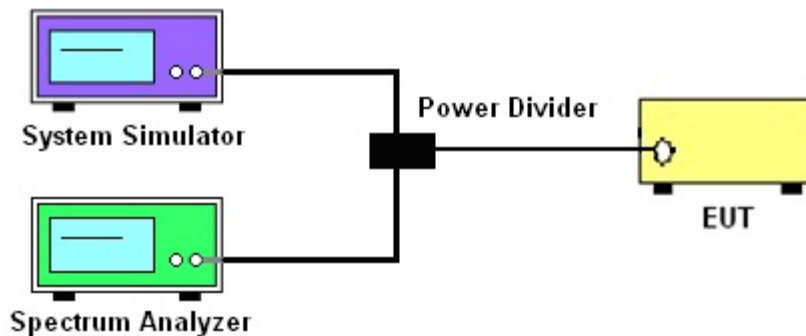
See list of measuring instruments of this test report.

3.1.1 Test Setup

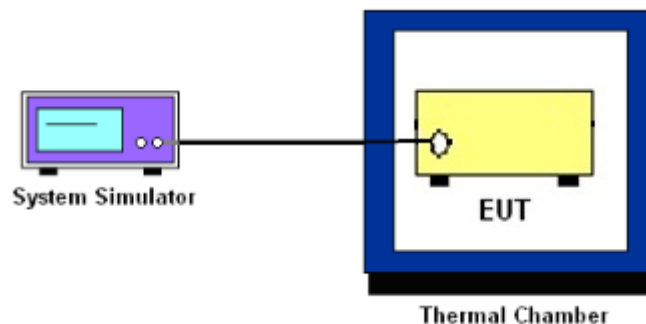
3.1.2 Conducted Output Power



3.1.3 EIRP, Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge, and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to section 3.2 and Appendix A.



3.2 Conducted Output Power Measurement

3.2.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.2.2 Test Procedures

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

3.2.3 Test Result of Conducted Output Power and EIRP measurement

<SISO Ant 6>

NR n48 Maximum Average Power [dBm] (GT - LC = 1.7 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	18.85	19.57	19.65	21.50	0.1413		
10	1	22		18.83	19.62	19.70				
10	12	6		18.76	18.97	19.62				
10	1	0		18.35	18.57	18.66				
10	1	23		18.40	18.63	18.74				
10	24	0		17.88	18.06	18.21				
10	1	1	QPSK	18.94	19.75	19.70				
10	1	22		18.96	19.73	19.80				
10	12	6		18.79	19.55	19.72				
10	1	0		17.91	18.15	18.19				
10	1	23		17.94	18.16	18.32				
10	24	0		16.86	17.08	17.18				
10	1	1	16-QAM	17.85	18.14	18.22	19.92	0.0982		
10	1	1	64-QAM	16.41	16.75	16.83				
10	1	1	256-QAM	14.22	14.52	14.57				
15	1	1	PI/2 BPSK	19.53	19.62	19.63	21.41	0.1384		
15	1	36		18.97	19.55	19.62				
15	18	9		18.73	18.96	19.58				
15	1	0		18.41	18.60	18.60				
15	1	37		18.38	18.62	15.18				
15	36	0		18.01	18.07	18.16				
15	1	1	QPSK	19.51	19.71	19.71				
15	1	36		18.89	19.68	19.66				
15	18	9		18.85	19.57	19.68				
15	1	0		18.01	18.12	18.27				
15	1	37		17.94	18.19	15.20				
15	36	0		16.95	17.04	15.29				
15	1	1	16-QAM	17.87	18.10	18.22	19.92	0.0982		
15	1	1	64-QAM	16.55	16.66	16.93				
15	1	1	256-QAM	14.25	14.34	14.50				
Limit	EIRP < 23dBm/10MHz			Result			Pass			
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.										



NR n48 Maximum Average Power [dBm] (GT - LC = 1.7 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	18.94	19.58	19.65	21.40	0.1380		
20	1	49		18.99	19.62	19.66				
20	25	12		18.93	19.63	19.63				
20	1	0		18.39	18.52	18.59				
20	1	50		18.46	18.63	18.50				
20	50	0		18.01	18.15	18.15				
20	1	1	QPSK	19.55	19.55	19.70				
20	1	49		19.53	19.66	19.52				
20	25	12		18.94	19.61	19.67				
20	1	0		17.89	18.06	18.16				
20	1	50		17.98	18.19	18.06				
20	50	0		17.05	17.15	17.15				
20	1	1	16-QAM	17.94	18.08	18.10	19.80	0.0955		
20	1	1	64-QAM	16.48	16.65	16.79				
20	1	1	256-QAM	14.47	14.45	14.57				
30	1	1	PI/2 BPSK	13.57	15.18	13.75	21.28	0.1343		
30	1	76		13.45	15.31	13.70				
30	36	18		13.48	19.58	18.97				
30	1	0		13.63	15.19	13.83				
30	1	77		13.36	15.23	13.84				
30	75	0		13.43	15.06	13.75				
30	1	1	QPSK	13.61	15.17	13.85				
30	1	76		13.45	15.33	13.87				
30	36	18		13.43	18.98	18.98				
30	1	0		13.49	15.14	13.81				
30	1	77		13.59	15.25	13.88				
30	75	0		13.47	15.16	13.80				
30	1	1	16-QAM	13.14	18.17	13.39	19.87	0.0971		
30	1	1	64-QAM	13.08	16.70	13.21				
30	1	1	256-QAM	12.82	14.40	14.44				
Limit	EIRP < 23dBm/10MHz			Result			Pass			
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.										



NR n48 Maximum Average Power [dBm] (GT - LC = 1.7 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	13.59	15.08	13.59	21.36	0.1368		
40	1	104		13.43	15.30	13.72				
40	50	25		13.53	19.62	13.71				
40	1	0		13.62	15.10	13.60				
40	1	105		13.45	15.11	13.69				
40	100	0		13.69	18.12	13.75				
40	1	1	QPSK	13.59	14.99	13.70				
40	1	104		13.60	15.22	13.76				
40	50	25		13.49	19.66	13.72				
40	1	0		13.62	15.01	13.67				
40	1	105		13.53	15.19	13.70				
40	100	0		13.52	17.13	13.81				
40	1	1	16-QAM	13.15	15.02	13.18	16.72	0.0470		
40	1	1	64-QAM	12.94	15.01	13.15				
40	1	1	256-QAM	12.86	14.20	12.90				
Limit	EIRP < 23dBm/10MHz			Result			Pass			
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.										



<SISO ANT 7>

NR n48 Maximum Average Power [dBm] (GT - LC = 2.7 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	18.34	18.80	18.65	21.51	0.1416		
10	1	22		18.44	18.78	18.69				
10	12	6		18.29	18.61	18.55				
10	1	0		17.89	18.21	18.23				
10	1	23		18.06	18.21	18.18				
10	24	0		17.40	17.69	17.66				
10	1	1	QPSK	18.46	18.81	18.74				
10	1	22		18.54	18.79	18.75				
10	12	6		18.40	18.68	18.67				
10	1	0		17.45	17.79	17.70				
10	1	23		17.49	17.82	17.72				
10	24	0		16.40	16.70	16.70				
10	1	1	16-QAM	17.39	17.74	17.68	20.44	0.1107		
10	1	1	64-QAM	16.06	16.40	16.18				
10	1	1	256-QAM	13.70	14.01	14.00				
15	1	1	PI/2 BPSK	14.39	18.83	18.83	21.53	0.1422		
15	1	36		18.53	18.82	14.59				
15	18	9		18.34	18.62	18.55				
15	1	0		14.48	18.32	18.12				
15	1	37		18.11	18.32	14.62				
15	36	0		14.49	17.71	14.64				
15	1	1	QPSK	14.48	18.77	18.71				
15	1	36		18.63	18.74	14.60				
15	18	9		18.49	18.74	18.63				
15	1	0		14.51	17.80	17.90				
15	1	37		17.62	17.76	14.73				
15	36	0		14.64	16.66	14.67				
15	1	1	16-QAM	13.66	17.83	17.64	20.53	0.1130		
15	1	1	64-QAM	13.66	16.36	16.23				
15	1	1	256-QAM	13.68	14.03	13.90				
Limit	EIRP < 23dBm/10MHz			Result			Pass			
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.										



NR n48 Maximum Average Power [dBm] (GT - LC = 2.7 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	14.46	18.76	18.56	21.56	0.1432		
20	1	49		18.63	18.71	14.62				
20	25	12		18.56	18.73	18.60				
20	1	0		14.56	18.22	18.05				
20	1	50		18.09	18.31	14.56				
20	50	0		14.59	17.75	14.64				
20	1	1	QPSK	14.57	18.81	18.68				
20	1	49		18.66	18.86	14.61				
20	25	12		18.49	18.74	18.61				
20	1	0		14.53	17.78	17.63				
20	1	50		17.66	17.76	14.64				
20	50	0		14.61	16.76	14.60				
20	1	1	16-QAM	13.70	17.75	17.61	20.45	0.1109		
20	1	1	64-QAM	13.67	16.33	16.17				
20	1	1	256-QAM	13.77	13.97	13.85				
30	1	1	PI/2 BPSK	13.39	14.81	13.65	21.46	0.1400		
30	1	76		13.43	14.78	13.50				
30	36	18		13.41	18.71	18.69				
30	1	0		13.40	14.83	13.60				
30	1	77		13.41	14.78	13.37				
30	75	0		13.39	14.75	13.64				
30	1	1	QPSK	13.46	15.08	13.57				
30	1	76		13.55	14.92	13.55				
30	36	18		13.36	18.76	18.68				
30	1	0		13.49	14.87	13.64				
30	1	77		13.58	14.91	13.44				
30	75	0		13.43	14.77	13.66				
30	1	1	16-QAM	12.86	14.87	13.16	17.57	0.0571		
30	1	1	64-QAM	12.97	14.74	13.23				
30	1	1	256-QAM	12.55	13.98	12.99				
Limit	EIRP < 23dBm/10MHz			Result			Pass			
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.										



NR n48 Maximum Average Power [dBm] (GT - LC = 2.7 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	13.48	14.92	13.47	21.44	0.1393		
40	1	104		13.40	14.80	13.51				
40	50	25		13.52	18.71	13.50				
40	1	0		13.38	14.74	13.46				
40	1	105		13.47	14.85	13.38				
40	100	0		13.54	17.70	13.46				
40	1	1	QPSK	13.57	15.02	13.57				
40	1	104		13.41	14.82	13.49				
40	50	25		13.42	18.74	13.47				
40	1	0		13.46	14.71	13.51				
40	1	105		13.64	14.80	13.49				
40	100	0		13.43	16.80	13.56				
40	1	1	16-QAM	13.01	14.73	13.12	17.59	0.0574		
40	1	1	64-QAM	12.99	14.89	13.00				
40	1	1	256-QAM	12.69	14.06	12.76				
Limit	EIRP < 23dBm/10MHz			Result			Pass			
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.										



<SISO ANT 1>

NR n48 Maximum Average Power [dBm] (GT - LC = 1.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	20.32	20.72	20.64	22.24	0.1675		
10	1	22		20.36	20.71	20.65				
10	12	6		20.26	20.63	20.55				
10	1	0		19.82	20.25	20.11				
10	1	23		19.85	20.27	20.10				
10	24	0		19.28	19.73	19.64				
10	1	1	QPSK	20.35	20.74	20.62				
10	1	22		20.31	20.66	20.69				
10	12	6		20.32	20.69	20.64				
10	1	0		19.38	19.74	19.63				
10	1	23		19.41	19.70	19.56				
10	24	0		18.33	18.73	18.66				
10	1	1	16-QAM	19.31	19.75	19.61	21.25	0.1334		
10	1	1	64-QAM	17.92	18.26	18.31				
10	1	1	256-QAM	14.62	15.09	14.99				
15	1	1	PI/2 BPSK	16.40	20.70	20.69	22.27	0.1687		
15	1	36		20.48	20.70	16.62				
15	18	9		20.25	20.54	20.43				
15	1	0		16.43	20.33	20.14				
15	1	37		19.93	20.28	16.69				
15	36	0		16.38	19.62	16.62				
15	1	1	QPSK	16.42	20.72	20.60				
15	1	36		20.45	20.77	16.63				
15	18	9		20.33	20.66	20.57				
15	1	0		16.39	19.82	19.69				
15	1	37		19.44	19.82	16.62				
15	36	0		16.38	18.68	16.61				
15	1	1	16-QAM	15.49	19.76	19.63	21.26	0.1337		
15	1	1	64-QAM	15.62	18.32	18.24				
15	1	1	256-QAM	14.73	15.16	14.95				
Limit	EIRP < 23dBm/10MHz			Result			Pass			
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.										



NR n48 Maximum Average Power [dBm] (GT - LC = 1.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	16.36	20.74	20.61	22.25	0.1679		
20	1	49		20.48	20.75	16.60				
20	25	12		20.40	20.72	20.56				
20	1	0		16.32	20.16	20.09				
20	1	50		19.95	20.24	16.59				
20	50	0		16.46	19.71	16.56				
20	1	1	QPSK	16.37	20.75	20.60				
20	1	49		20.57	20.73	16.61				
20	25	12		20.41	20.72	20.55				
20	1	0		16.37	19.70	19.59				
20	1	50		19.46	19.63	16.52				
20	50	0		16.48	18.72	16.55				
20	1	1	16-QAM	15.58	19.72	19.50	21.22	0.1324		
20	1	1	64-QAM	15.56	18.28	18.16				
20	1	1	256-QAM	14.84	15.11	14.88				
30	1	1	PI/2 BPSK	13.86	16.71	14.09	22.22	0.1667		
30	1	76		14.01	16.90	14.03				
30	36	18		13.85	20.72	20.63				
30	1	0		13.87	16.92	14.13				
30	1	77		13.91	16.75	14.17				
30	75	0		13.93	16.78	14.22				
30	1	1	QPSK	13.85	16.97	14.19				
30	1	76		14.10	16.88	14.07				
30	36	18		13.81	20.70	20.64				
30	1	0		13.83	16.82	14.18				
30	1	77		14.05	16.94	14.08				
30	75	0		13.94	16.78	14.25				
30	1	1	16-QAM	12.34	16.95	12.59	18.49	0.0706		
30	1	1	64-QAM	12.27	16.99	12.62				
30	1	1	256-QAM	12.06	15.19	12.49				
Limit	EIRP < 23dBm/10MHz			Result			Pass			
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.										



NR n48 Maximum Average Power [dBm] (GT - LC = 1.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	13.82	16.93	14.08	22.25	0.1679		
40	1	104		14.09	16.84	14.03				
40	50	25		13.96	20.72	14.04				
40	1	0		13.85	16.87	14.09				
40	1	105		14.00	16.73	14.13				
40	100	0		13.95	16.23	14.17				
40	1	1	QPSK	13.82	16.81	14.03				
40	1	104		14.15	16.89	14.02				
40	50	25		13.96	20.75	14.05				
40	1	0		13.81	16.90	14.11				
40	1	105		14.02	16.87	14.07				
40	100	0		14.11	16.28	14.18				
40	1	1	16-QAM	12.38	16.97	12.47	18.47	0.0703		
40	1	1	64-QAM	12.30	16.91	12.65				
40	1	1	256-QAM	12.09	15.29	12.37				
Limit	EIRP < 23dBm/10MHz			Result			Pass			
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.										



<SISO ANT 5>

NR n48 Maximum Average Power [dBm] (GT - LC = 0.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	21.21	21.47	21.13	21.80	0.1514		
10	1	22		21.31	21.59	21.10				
10	12	6		21.19	21.44	21.03				
10	1	0		20.62	21.10	20.56				
10	1	23		20.77	21.02	20.67				
10	24	0		20.22	20.54	20.05				
10	1	1	QPSK	21.19	21.60	21.07				
10	1	22		21.36	21.52	21.06				
10	12	6		21.29	21.49	21.04				
10	1	0		20.18	20.55	20.09				
10	1	23		20.27	20.46	20.14				
10	24	0		19.27	19.51	19.08				
10	1	1	16-QAM	20.16	20.46	20.03	20.66	0.1164		
10	1	1	64-QAM	18.77	19.15	18.59				
10	1	1	256-QAM	15.60	15.88	15.44				
15	1	1	PI/2 BPSK	17.36	21.56	20.99	21.82	0.1521		
15	1	36		21.31	21.54	17.09				
15	18	9		21.16	21.39	20.91				
15	1	0		17.25	21.14	20.58				
15	1	37		20.80	21.11	17.10				
15	36	0		17.33	20.50	17.04				
15	1	1	QPSK	17.31	21.62	21.13				
15	1	36		21.44	21.52	17.07				
15	18	9		21.33	21.47	21.02				
15	1	0		17.32	20.53	20.01				
15	1	37		20.40	20.57	17.11				
15	36	0		17.28	19.59	17.09				
15	1	1	16-QAM	16.28	20.52	20.06	20.72	0.1180		
15	1	1	64-QAM	16.40	19.10	18.67				
15	1	1	256-QAM	15.70	15.97	15.60				
Limit	EIRP < 23dBm/10MHz			Result			Pass			
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.										



NR n48 Maximum Average Power [dBm] (GT - LC = 0.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	17.36	21.55	21.08	21.75	0.1496		
20	1	49		21.46	21.47	17.02				
20	25	12		21.36	21.53	21.01				
20	1	0		17.27	21.01	20.47				
20	1	50		20.89	20.97	17.03				
20	50	0		17.41	20.55	17.04				
20	1	1	QPSK	17.26	21.53	21.01				
20	1	49		21.46	21.50	17.00				
20	25	12		21.37	21.50	21.03				
20	1	0		17.28	20.43	20.03				
20	1	50		20.50	20.42	17.05				
20	50	0		17.36	19.53	17.01				
20	1	1	16-QAM	16.34	20.55	20.01	20.75	0.1189		
20	1	1	64-QAM	16.38	19.06	18.53				
20	1	1	256-QAM	15.62	15.81	15.39				
30	1	1	PI/2 BPSK	13.45	17.78	13.35	21.72	0.1486		
30	1	76		13.58	17.70	13.24				
30	36	18		13.46	21.52	21.12				
30	1	0		13.42	17.82	13.36				
30	1	77		13.58	17.72	13.23				
30	75	0		13.57	17.57	13.34				
30	1	1	QPSK	13.48	17.76	13.32				
30	1	76		13.64	17.53	13.24				
30	36	18		13.46	21.50	21.05				
30	1	0		13.45	17.69	13.32				
30	1	77		13.64	17.60	13.25				
30	75	0		13.49	17.62	13.33				
30	1	1	16-QAM	12.01	17.70	11.85	17.90	0.0617		
30	1	1	64-QAM	11.93	17.61	11.76				
30	1	1	256-QAM	11.66	16.09	11.67				
Limit	EIRP < 23dBm/10MHz			Result			Pass			
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.										



NR n48 Maximum Average Power [dBm] (GT - LC = 0.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	13.46	17.72	13.25	21.76	0.1500		
40	1	104		13.70	17.61	13.17				
40	50	25		13.62	21.56	13.18				
40	1	0		13.47	17.61	13.18				
40	1	105		13.62	17.64	13.19				
40	100	0		13.62	17.04	13.21				
40	1	1	QPSK	13.47	17.57	13.15				
40	1	104		13.75	17.64	13.20				
40	50	25		13.63	21.54	13.34				
40	1	0		13.53	17.68	13.21				
40	1	105		13.69	17.66	13.16				
40	100	0		13.70	17.09	13.26				
40	1	1	16-QAM	12.06	17.68	11.78	18.00	0.0631		
40	1	1	64-QAM	12.01	17.80	11.68				
40	1	1	256-QAM	11.70	15.97	11.45				
Limit	EIRP < 23dBm/10MHz			Result			Pass			
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.										



<MIMO Ant 6+1>

NR n48 Maximum Average Power [dBm] (GT - LC = 1.7 dB)														
BW	RB	RB	Mod	Antenna 6			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	17.22	17.46	17.55	17.12	17.33	17.29	20.18	20.41	20.43	22.19	0.1656
10	1	22		17.20	17.44	17.57	17.10	17.36	17.38	20.16	20.41	20.49		
10	12	6		17.24	17.46	17.59	17.14	17.33	17.30	20.20	20.41	20.46		
10	1	0		15.70	15.94	16.02	15.77	15.89	16.03	18.75	18.93	19.04		
10	1	23		15.82	16.07	16.05	15.81	16.02	15.88	18.83	19.06	18.98		
10	24	0		15.27	15.47	15.59	15.32	15.47	15.46	18.31	18.48	18.54		
10	1	1	16-QAM	16.67	16.84	16.92	16.69	16.81	16.72	19.69	19.84	19.83	21.54	0.1426
10	1	1	64-QAM	15.20	15.63	15.56	14.98	15.03	15.04	18.10	18.35	18.32		
10	1	1	256-QAM	12.40	12.51	12.61	12.55	12.71	12.73	15.49	15.62	15.68		
15	1	1	QPSK	12.84	17.53	17.54	12.65	17.32	17.25	15.76	20.44	20.41	22.16	0.1644
15	1	36		17.31	17.52	13.03	17.19	17.38	12.82	20.26	20.46	15.94		
15	19	9		17.18	17.46	17.57	17.15	17.33	17.26	20.18	20.41	20.43		
15	1	0		12.70	16.00	16.02	12.77	15.97	15.85	15.75	19.00	18.95		
15	1	37		15.82	16.05	13.06	15.83	16.03	12.87	18.84	19.05	15.98		
15	38	0		12.70	15.46	12.99	12.69	15.44	12.84	15.71	18.46	15.93		
15	1	1	16-QAM	12.68	16.95	16.95	12.78	16.80	16.67	15.74	19.89	19.82	21.59	0.1442
15	1	1	64-QAM	12.78	15.52	15.55	12.48	15.16	14.97	15.64	18.35	18.28		
15	1	1	256-QAM	12.33	12.48	12.55	12.60	12.77	12.71	15.48	15.64	15.64		
20	1	1	QPSK	12.87	17.37	17.46	12.74	17.46	17.20	15.82	20.43	20.34	22.13	0.1633
20	1	49		17.37	17.44	13.04	17.21	17.35	12.84	20.30	20.41	15.95		
20	25	12		17.32	17.42	17.50	17.22	17.36	17.24	20.28	20.40	20.38		
20	1	0		12.69	15.90	16.05	12.74	15.94	15.80	15.73	18.93	18.94		
20	1	50		15.88	16.08	13.01	16.04	15.97	12.88	18.97	19.04	15.96		
20	51	0		12.75	15.41	12.96	12.81	15.45	12.82	15.79	18.44	15.90		
20	1	1	16-QAM	12.76	16.77	16.91	12.75	16.80	16.61	15.77	19.80	19.77	21.50	0.1413
20	1	1	64-QAM	12.77	15.55	15.43	12.42	15.07	15.05	15.61	18.33	18.25		
20	1	1	256-QAM	12.38	12.44	12.44	12.60	12.74	12.65	15.50	15.60	15.56		
30	1	1	QPSK	9.69	14.85	9.82	9.43	14.89	9.52	12.57	17.88	12.68	22.09	0.1618
30	1	76		9.42	14.90	9.81	9.41	14.85	9.61	12.43	17.89	12.72		
30	39	19		9.46	17.38	9.75	9.40	17.37	9.68	12.44	20.39	12.73		
30	1	0		9.57	14.83	9.84	9.47	14.97	9.57	12.53	17.91	12.72		
30	1	77		9.54	14.93	9.86	9.42	14.78	9.63	12.49	17.87	12.76		
30	78	0		9.53	14.94	9.74	9.48	14.92	9.64	12.52	17.94	12.70		
30	1	1	16-QAM	9.47	14.74	9.62	9.44	14.86	9.59	12.47	17.81	12.62	19.51	0.0893
30	1	1	64-QAM	9.56	14.77	9.78	9.04	14.51	9.26	12.32	17.65	12.54		
30	1	1	256-QAM	9.66	12.45	9.83	9.68	12.66	9.93	12.68	15.57	12.89		
40	1	1	QPSK	9.60	14.79	9.59	9.39	14.82	9.58	12.51	17.82	12.60	22.09	0.1618
40	1	104		9.53	14.85	9.64	9.54	14.92	9.63	12.55	17.90	12.65		
40	53	26		9.55	17.36	9.71	9.48	17.39	9.53	12.53	20.39	12.63		
40	1	0		9.55	14.71	9.65	9.41	14.78	9.42	12.49	17.76	12.55		
40	1	105		9.61	14.98	9.78	9.53	14.79	9.50	12.58	17.90	12.65		
40	106	0		9.71	15.29	9.90	9.60	15.33	9.47	12.67	18.32	12.70		
40	1	1	16-QAM	9.49	14.71	9.46	9.54	14.83	9.43	12.53	17.78	12.46	19.48	0.0887
40	1	1	64-QAM	9.49	14.85	9.59	9.18	14.46	9.22	12.35	17.67	12.42		
40	1	1	256-QAM	9.60	12.38	9.68	9.68	12.62	9.86	12.65	15.51	12.78		
Limit	EIRP < 23dBm/10MHz			Result									Pass	
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.														



<MIMO Ant 6+5>

NR n48 Maximum Average Power [dBm] (GT - LC = 1.7 dB)														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	17.68	17.75	17.66	17.71	17.76	17.69	20.71	20.77	20.69	22.47	0.1766
10	1	22		17.66	17.63	17.60	17.70	17.86	17.69	20.69	20.76	20.66		
10	12	6		17.68	17.66	17.63	17.78	17.72	17.68	20.74	20.70	20.67		
10	1	0		16.26	16.31	16.17	16.38	16.49	16.21	19.33	19.41	19.20		
10	1	23		16.32	16.35	16.21	16.24	16.49	16.30	19.29	19.43	19.27		
10	24	0		15.86	15.83	15.81	15.90	15.90	15.84	18.89	18.88	18.84		
10	1	1	16-QAM	17.23	17.29	17.19	17.40	17.30	17.18	20.33	20.31	20.20	22.03	0.1596
10	1	1	64-QAM	15.86	15.95	15.79	15.57	15.62	15.47	18.73	18.80	18.64		
10	1	1	256-QAM	12.89	12.87	12.81	13.21	13.23	13.16	16.06	16.06	16.00		
15	1	1	QPSK	13.37	17.84	17.72	13.45	17.84	17.63	16.42	20.85	20.69	22.55	0.1799
15	1	36		17.68	17.67	13.24	17.76	17.73	13.24	20.73	20.71	16.25		
15	19	9		17.71	17.67	17.66	17.78	17.76	17.66	20.76	20.73	20.67		
15	1	0		13.33	16.38	16.28	13.51	16.49	16.30	16.43	19.45	19.30		
15	1	37		16.32	16.33	13.21	16.37	16.47	13.32	19.36	19.41	16.28		
15	38	0		13.24	15.79	13.22	13.37	15.88	13.27	16.32	18.85	16.26		
15	1	1	16-QAM	13.22	17.33	17.27	13.46	17.25	17.15	16.35	20.30	20.22	22.00	0.1585
15	1	1	64-QAM	13.31	15.87	15.82	13.21	15.60	15.47	16.27	18.75	18.66		
15	1	1	256-QAM	12.92	12.86	12.80	13.24	13.24	13.17	16.09	16.06	16.00		
20	1	1	QPSK	13.33	17.72	17.69	13.47	17.91	17.59	16.41	20.83	20.65	22.53	0.1791
20	1	49		17.60	17.63	13.22	17.72	17.88	13.31	20.67	20.77	16.28		
20	25	12		17.69	17.70	17.66	17.79	17.75	17.62	20.75	20.74	20.65		
20	1	0		13.38	16.38	16.32	13.56	16.46	16.45	16.48	19.43	19.40		
20	1	50		16.34	16.31	13.22	16.50	16.40	13.29	19.43	19.37	16.27		
20	51	0		13.24	15.78	13.23	13.36	15.86	13.27	16.31	18.83	16.26		
20	1	1	16-QAM	13.26	17.25	17.27	13.54	17.28	17.14	16.41	20.28	20.22	21.98	0.1578
20	1	1	64-QAM	13.30	15.92	15.95	13.20	15.56	15.44	16.26	18.75	18.71		
20	1	1	256-QAM	12.94	12.83	12.76	13.19	13.18	13.08	16.08	16.02	15.93		
30	1	1	QPSK	9.52	15.31	9.38	9.31	15.40	9.38	12.43	18.37	12.39	22.47	0.1766
30	1	76		9.19	15.08	9.24	9.19	15.18	9.33	12.20	18.14	12.30		
30	39	19		9.34	17.74	9.22	9.29	17.78	9.30	12.33	20.77	12.27		
30	1	0		9.50	15.26	9.42	9.37	15.35	9.43	12.45	18.32	12.44		
30	1	77		9.30	15.26	9.21	9.18	15.21	9.25	12.25	18.25	12.24		
30	78	0		9.34	15.28	9.27	9.33	15.33	9.32	12.35	18.32	12.31		
30	1	1	16-QAM	9.38	15.25	9.27	9.47	15.33	9.40	12.44	18.30	12.35	20.00	0.1000
30	1	1	64-QAM	9.55	15.32	9.43	9.05	15.03	9.10	12.32	18.19	12.28		
30	1	1	256-QAM	9.56	12.96	9.51	9.66	13.19	9.76	12.62	16.09	12.65		
40	1	1	QPSK	9.55	15.28	9.33	9.36	15.50	9.35	12.47	18.40	12.35	22.43	0.1750
40	1	104		9.24	14.87	9.11	9.10	15.05	9.23	12.18	17.97	12.18		
40	53	26		9.35	17.74	9.44	9.22	17.70	9.32	12.30	20.73	12.39		
40	1	0		9.47	15.29	9.26	9.34	15.32	9.25	12.42	18.32	12.27		
40	1	105		9.20	15.10	9.11	9.11	15.14	9.38	12.17	18.13	12.26		
40	106	0		9.45	15.76	9.25	9.27	15.82	9.31	12.37	18.80	12.29		
40	1	1	16-QAM	9.50	15.19	9.12	9.50	15.29	9.38	12.51	18.25	12.26	19.95	0.0989
40	1	1	64-QAM	9.49	15.30	9.22	9.02	14.96	9.04	12.27	18.14	12.14		
40	1	1	256-QAM	9.64	12.94	9.40	9.70	13.12	9.85	12.68	16.04	12.64		
Limit	EIRP < 23dBm/10MHz			Result									Pass	
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.														



<MIMO Ant 7+1>

NR n48 Maximum Average Power [dBm] (GT - LC = 2.7 dB)														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	16.98	17.03	16.89	17.29	17.26	17.15	20.15	20.16	20.03	22.86	0.1932
10	1	22		16.94	16.88	16.90	17.19	17.37	17.21	20.08	20.14	20.07		
10	12	6		16.96	16.96	16.90	17.32	17.28	17.20	20.15	20.13	20.06		
10	1	0		15.62	15.61	15.51	16.00	15.83	15.76	18.82	18.73	18.65		
10	1	23		15.51	15.58	15.56	15.78	15.85	15.79	18.66	18.73	18.69		
10	24	0		15.11	15.11	15.11	15.48	15.42	15.39	18.31	18.28	18.26		
10	1	1	16-QAM	16.47	16.55	16.45	16.85	16.82	16.66	19.67	19.70	19.57	22.40	0.1738
10	1	1	64-QAM	15.19	15.25	15.12	15.11	15.03	14.95	18.16	18.15	18.05		
10	1	1	256-QAM	12.19	12.19	12.08	12.75	12.66	12.68	15.49	15.44	15.40		
15	1	1	QPSK	12.63	17.11	17.00	12.86	17.25	17.12	15.76	20.19	20.07	22.89	0.1945
15	1	36		16.96	17.10	12.59	17.25	17.26	12.81	20.12	20.19	15.71		
15	19	9		17.02	17.00	16.97	17.30	17.21	17.23	20.17	20.12	20.11		
15	1	0		12.63	15.72	15.62	12.84	15.89	15.78	15.75	18.82	18.71		
15	1	37		15.66	15.60	12.52	15.88	15.90	12.83	18.78	18.76	15.69		
15	38	0		12.53	15.06	12.51	12.79	15.35	12.74	15.67	18.22	15.64		
15	1	1	16-QAM	12.52	16.57	16.52	12.88	16.76	16.67	15.71	19.68	19.61	22.38	0.1730
15	1	1	64-QAM	12.57	15.30	15.23	12.59	15.08	14.95	15.59	18.20	18.10		
15	1	1	256-QAM	12.20	12.22	12.06	12.75	12.71	12.67	15.49	15.48	15.39		
20	1	1	QPSK	12.66	17.00	17.02	12.88	17.26	17.15	15.78	20.14	20.10	22.91	0.1954
20	1	49		16.98	16.95	12.53	17.40	17.29	12.75	20.21	20.13	15.65		
20	25	12		17.01	17.00	17.00	17.32	17.27	17.23	20.18	20.15	20.13		
20	1	0		12.65	15.67	15.64	12.85	15.93	15.86	15.76	18.81	18.76		
20	1	50		15.63	15.65	12.48	15.87	15.88	12.73	18.76	18.78	15.62		
20	51	0		12.60	15.12	12.52	12.90	15.43	12.79	15.76	18.29	15.67		
20	1	1	16-QAM	12.57	16.54	16.56	13.01	16.81	16.70	15.81	19.69	19.64	22.39	0.1734
20	1	1	64-QAM	12.64	15.28	15.22	12.61	15.10	14.99	15.64	18.20	18.12		
20	1	1	256-QAM	12.23	12.18	12.12	12.73	12.70	12.65	15.50	15.46	15.40		
30	1	1	QPSK	9.51	14.65	9.36	9.64	14.94	9.51	12.59	17.81	12.45	22.89	0.1945
30	1	76		9.34	14.46	9.26	9.49	14.73	9.58	12.43	17.61	12.43		
30	39	19		9.31	17.05	9.25	9.51	17.30	9.55	12.42	20.19	12.41		
30	1	0		9.53	14.62	9.39	9.63	14.92	9.55	12.59	17.78	12.48		
30	1	77		9.33	14.49	9.25	9.46	14.75	9.62	12.41	17.63	12.45		
30	78	0		9.36	14.54	9.28	9.55	14.88	9.55	12.47	17.72	12.43		
30	1	1	16-QAM	9.36	14.43	9.31	9.66	14.94	9.61	12.52	17.70	12.47	20.40	0.1096
30	1	1	64-QAM	9.50	14.50	9.38	9.27	14.61	9.34	12.40	17.57	12.37		
30	1	1	256-QAM	9.66	12.27	9.51	10.00	12.73	9.92	12.84	15.52	12.73		
40	1	1	QPSK	9.52	14.66	9.31	9.60	15.09	9.49	12.57	17.89	12.41	22.90	0.1950
40	1	104		9.23	14.53	9.22	9.36	14.75	9.52	12.31	17.65	12.38		
40	53	26		9.26	17.07	9.25	9.61	17.30	9.55	12.45	20.20	12.41		
40	1	0		9.51	14.61	9.32	9.69	14.82	9.59	12.61	17.73	12.47		
40	1	105		9.23	14.41	9.19	9.37	14.85	9.58	12.31	17.65	12.40		
40	106	0		9.27	15.03	9.30	9.63	15.38	9.55	12.46	18.22	12.44		
40	1	1	16-QAM	9.42	14.51	9.28	9.71	14.88	9.61	12.58	17.71	12.46	20.41	0.1099
40	1	1	64-QAM	9.56	14.56	9.37	9.20	14.49	8.96	12.39	17.54	12.18		
40	1	1	256-QAM	9.64	12.21	9.39	10.04	12.66	9.85	12.85	15.45	12.64		
Limit	EIRP < 23dBm/10MHz			Result									Pass	
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.														



<MIMO Ant 7+5>

NR n48 Maximum Average Power [dBm] (GT - LC = 2.7 dB)														
BW	RB	RB	Mod	Antenna 7			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	17.08	17.15	17.06	17.11	17.16	17.09	20.11	20.17	20.09	22.87	0.1936
10	1	22		17.06	17.03	17.00	17.10	17.26	17.09	20.09	20.16	20.06		
10	12	6		17.08	17.06	17.03	17.18	17.12	17.08	20.14	20.10	20.07		
10	1	0		15.66	15.71	15.57	15.78	15.89	15.61	18.73	18.81	18.60		
10	1	23		15.72	15.75	15.61	15.64	15.89	15.70	18.69	18.83	18.67		
10	24	0		15.26	15.23	15.21	15.30	15.30	15.24	18.29	18.28	18.24		
10	1	1	16-QAM	16.63	16.69	16.59	16.80	16.70	16.58	19.73	19.71	19.60	22.43	0.1750
10	1	1	64-QAM	15.26	15.35	15.19	14.97	15.02	14.87	18.13	18.20	18.04		
10	1	1	256-QAM	12.29	12.27	12.21	12.61	12.63	12.56	15.46	15.46	15.40		
15	1	1	QPSK	12.77	17.24	17.12	12.85	17.24	17.03	15.82	20.25	20.09	22.95	0.1972
15	1	36		17.08	17.07	12.64	17.16	17.13	12.64	20.13	20.11	15.65		
15	19	9		17.11	17.07	17.06	17.18	17.16	17.06	20.16	20.13	20.07		
15	1	0		12.73	15.78	15.68	12.91	15.89	15.70	15.83	18.85	18.70		
15	1	37		15.72	15.73	12.61	15.77	15.87	12.72	18.76	18.81	15.68		
15	38	0		12.64	15.19	12.62	12.77	15.28	12.67	15.72	18.25	15.66		
15	1	1	16-QAM	12.62	16.73	16.67	12.86	16.65	16.55	15.75	19.70	19.62	22.40	0.1738
15	1	1	64-QAM	12.71	15.27	15.22	12.61	15.00	14.87	15.67	18.15	18.06		
15	1	1	256-QAM	12.32	12.26	12.20	12.64	12.64	12.57	15.49	15.46	15.40		
20	1	1	QPSK	12.73	17.12	17.09	12.87	17.31	16.99	15.81	20.23	20.05	22.93	0.1963
20	1	49		17.00	17.03	12.62	17.12	17.28	12.71	20.07	20.17	15.68		
20	25	12		17.09	17.10	17.06	17.19	17.15	17.02	20.15	20.14	20.05		
20	1	0		12.78	15.78	15.72	12.96	15.86	15.85	15.88	18.83	18.80		
20	1	50		15.74	15.71	12.62	15.90	15.80	12.69	18.83	18.77	15.67		
20	51	0		12.64	15.18	12.63	12.76	15.26	12.67	15.71	18.23	15.66		
20	1	1	16-QAM	12.66	16.65	16.67	12.94	16.68	16.54	15.81	19.68	19.62	22.38	0.1730
20	1	1	64-QAM	12.70	15.32	15.35	12.60	14.96	14.84	15.66	18.15	18.11		
20	1	1	256-QAM	12.34	12.23	12.16	12.59	12.58	12.48	15.48	15.42	15.33		
30	1	1	QPSK	9.52	14.71	9.38	9.31	14.80	9.38	12.43	17.77	12.39	22.87	0.1936
30	1	76		9.19	14.48	9.24	9.19	14.58	9.33	12.20	17.54	12.30		
30	39	19		9.34	17.14	9.22	9.29	17.18	9.30	12.33	20.17	12.27		
30	1	0		9.50	14.66	9.42	9.37	14.75	9.43	12.45	17.72	12.44		
30	1	77		9.30	14.66	9.21	9.18	14.61	9.25	12.25	17.65	12.24		
30	78	0		9.34	14.68	9.27	9.33	14.73	9.32	12.35	17.72	12.31		
30	1	1	16-QAM	9.38	14.65	9.27	9.47	14.73	9.40	12.44	17.70	12.35	20.40	0.1096
30	1	1	64-QAM	9.55	14.72	9.43	9.05	14.43	9.10	12.32	17.59	12.28		
30	1	1	256-QAM	9.56	12.36	9.51	9.66	12.59	9.76	12.62	15.49	12.65		
40	1	1	QPSK	9.55	14.68	9.33	9.36	14.90	9.35	12.47	17.80	12.35	22.83	0.1919
40	1	104		9.24	14.27	9.11	9.10	14.45	9.23	12.18	17.37	12.18		
40	53	26		9.35	17.14	9.44	9.22	17.10	9.32	12.30	20.13	12.39		
40	1	0		9.47	14.69	9.26	9.34	14.72	9.25	12.42	17.72	12.27		
40	1	105		9.20	14.50	9.11	9.11	14.54	9.38	12.17	17.53	12.26		
40	106	0		9.45	15.16	9.25	9.27	15.22	9.31	12.37	18.20	12.29		
40	1	1	16-QAM	9.50	14.59	9.12	9.50	14.69	9.38	12.51	17.65	12.26	20.35	0.1084
40	1	1	64-QAM	9.49	14.70	9.22	9.02	14.36	9.04	12.27	17.54	12.14		
40	1	1	256-QAM	9.64	12.34	9.40	9.70	12.52	9.85	12.68	15.44	12.64		
Limit	EIRP < 23dBm/10MHz			Result									Pass	
Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.														



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.



3.4 EIRP

3.4.1 Description of the EIRP Measurement

The EIRP of mobile transmitters must not exceed 23 dBm /10 megahertz for LTE Band 48.

The testing follows ANSI C63.26-2015 Section 5.2.5.5.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - LC$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

Device	Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a

Remark: Total channel power is complied with EIRP limit 23dBm/10MHz.

3.4.2 Test Procedures

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 CBRS Eqpt v03 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

3.5 Occupied Bandwidth

3.5.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.5.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. For MIMO mode, add additional MIMO factor $10\log(\text{NTX}=2) = 3.01\text{dB}$ into the spectrum analyzer offset.

For Adjacent Channel Leakage Ratio (ACLR) measurement,

1. The Adjacent Channel Leakage Ratio (ACLR) is the ratio of the average power in the assigned aggregated channel bandwidth to the average power over the equivalent adjacent channel bandwidth.
2. The option ACLR of spectrum analyzer is used and measures the ACLR ratio by setting equivalent channel bandwidth.
3. The measured ACLR ratio shall be at least 30 dB.

3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

96.41 (e)(2)

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is -40dBm/MHz.
10. The test reduction is applied to 1RB case for 10MHz Bandwidth to cover the all operation bandwidths. RBW 500kHz is applied to the 0-1MHz offset from the edge of the frequency block group for 1RB mode in order to represent the worst case condition.
11. For MIMO mode, add additional MIMO factor $10\log(\text{NTX}=2) = 3.01\text{dB}$ into the spectrum analyzer offset.

3.8 Frequency Stability

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

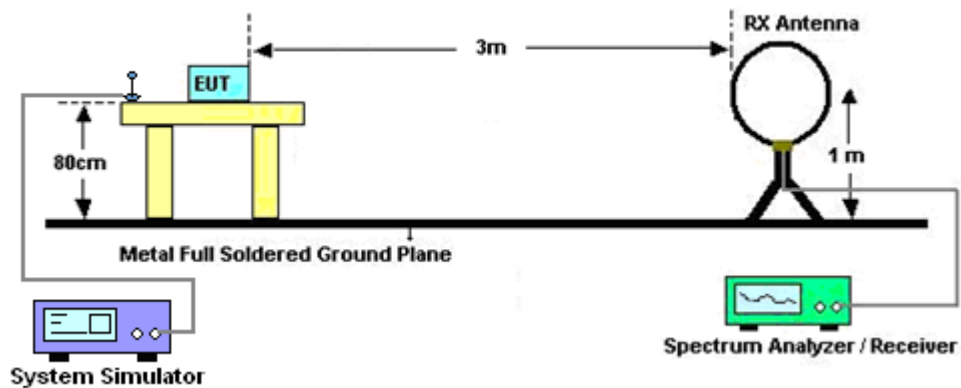
4 Radiated Test Items

4.1 Measuring Instruments

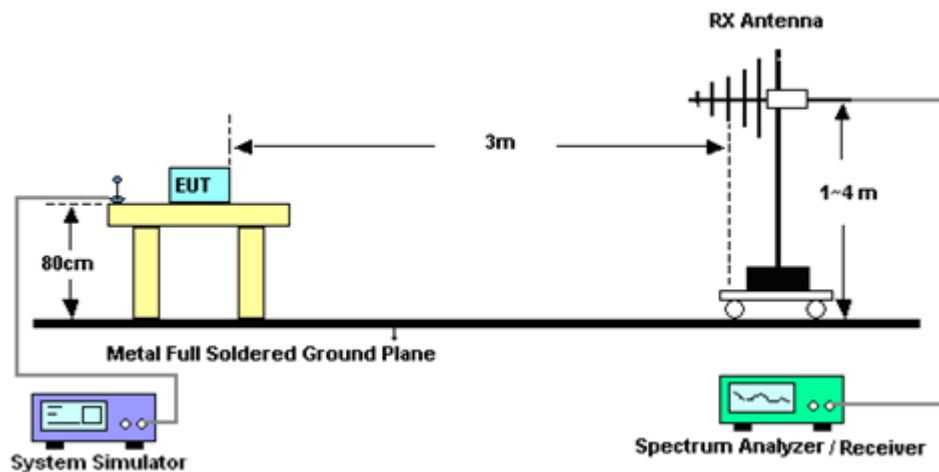
See list of measuring instruments of this test report.

4.2 Test Setup

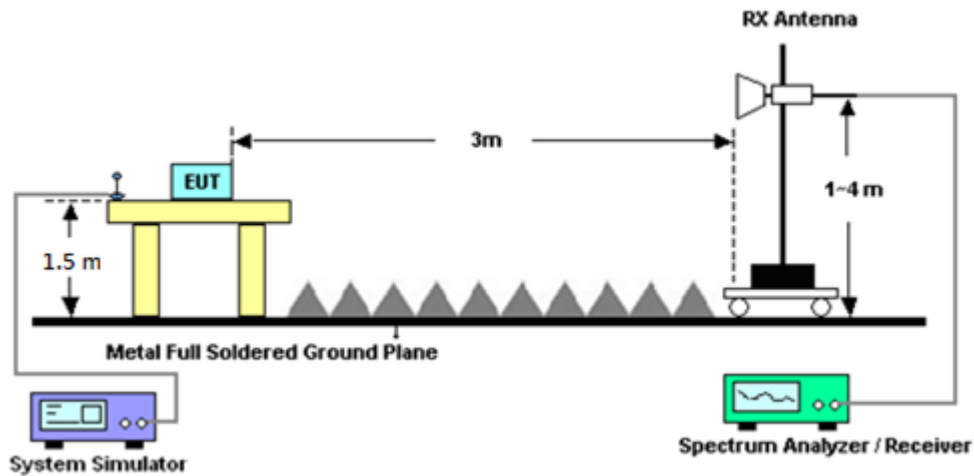
For radiated test below 30MHz



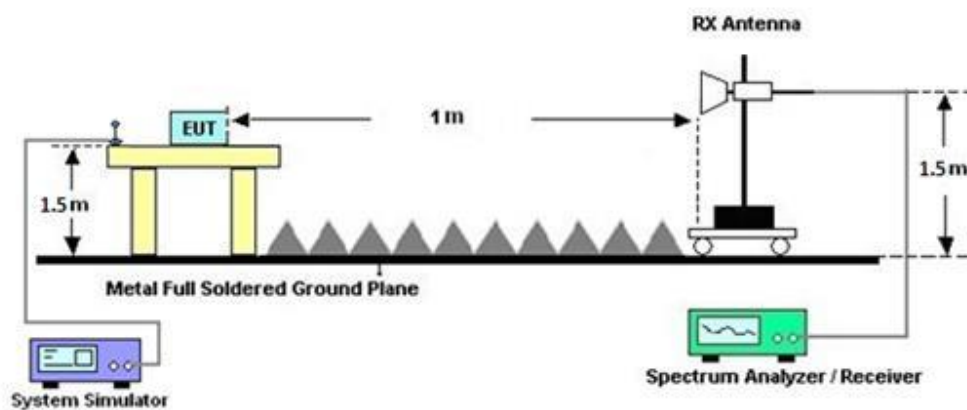
For radiated test from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions above 18GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26-2015.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least -40dBm / MHz

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
8. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
9. ERP (dBm) = EIRP (dBm) - 2.15
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Mar. 06, 2025	Nov. 27 2025~ Feb. 14 2026	Mar. 05, 2026	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	37059 & 01	30MHz~1GHz	Nov. 26, 2025	Nov. 27 2025~ Feb. 14 2026	Nov. 25, 2026	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-021 14	1GHz~18GHz	Jul. 02, 2025	Nov. 27 2025~ Feb. 14 2026	Jul. 01, 2026	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC190026 9	1GHz-18GHz	Dec. 19, 2024	Nov. 27 2025~ Dec. 17 2026	Dec. 18, 2025	Radiation (03CH12-HY)
Amplifier	EMCI	EMC051845S E	980729	1-18GHz	Dec. 17 2025	Dec. 17 2025~ Feb. 14 2026	Dec. 16 2026	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY534701 18	10Hz~44GHz	Sep. 09, 2025	Nov. 27 2025~ Feb. 14 2026	Sep. 08, 2026	Radiation (03CH12-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY532900 53	20Hz~26.5GHz	Sep. 08, 2025	Nov. 27 2025~ Feb. 14 2026	Sep. 07, 2026	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00994	18GHz-40GHz	Jan. 09, 2025	Nov. 27 2025~ Feb. 14 2026	Jan. 08, 2026	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1225	18GHz-40GHz	Jul. 02, 2025	Nov. 27 2025~ Feb. 14 2026	Jul. 01, 2026	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 26, 2025	Nov. 27 2025~ Feb. 14 2026	May 25, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WLKS1200-1 2SS	SN2	1.2GHz Low Pass Filter	Mar. 12, 2025	Nov. 27 2025~ Feb. 14 2026	Mar. 11, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-900 -1000-15000- 60SS	SN11	1GHz High Pass Filter	Mar. 12, 2025	Nov. 27 2025~ Feb. 14 2026	Mar. 11, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-270 0-3000-18000 -60ST	SN2	3GHz High Pass Filter	Mar. 12, 2025	Nov. 27 2025~ Feb. 14 2026	Mar. 11, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX8-5872. 5-6750-18000 -40ST	SN2	6.75GHz High Pass Filter	Mar. 12, 2025	Nov. 27 2025~ Feb. 14 2026	Mar. 11, 2026	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803955/2	30MHz~40GHz	Oct. 31, 2025	Nov. 27 2025~ Feb. 14 2026	Oct. 30, 2026	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Oct. 31, 2025	Nov. 27 2025~ Feb. 14 2026	Oct. 30, 2026	Radiation (03CH12-HY)
RF Cable	EMCI	EMC101Y-KM -KM-1000	240905	30MHz~40GHz	Oct. 31, 2025	Nov. 27 2025~ Feb. 14 2026	Oct. 30, 2026	Radiation (03CH12-HY)

**FCC RADIO TEST REPORT****Report No. : FG5N0809-01E**

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFL EX 104	EC-A5-300 -5757,805 935/4	9kHz~30MHz	Oct. 01, 2025	Nov. 27 2025~ Feb. 14 2026	Sep. 30, 2026	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210090	N/A	Aug. 26, 2025	Nov. 27 2025~ Feb. 14 2026	Aug. 25, 2026	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 27 2025~ Feb. 14 2026	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Nov. 27 2025~ Feb. 14 2026	N/A	Radiation (03CH12-HY)
Radio Communication Analyzer	Anritsu	MT8821C	627227835 3	LTE FDD/TDD DLCA/ULCA	Oct. 28, 2025	Nov. 27 2025~ Feb. 14 2026	Oct. 27, 2026	Radiation (03CH12-HY)
Radio Communication Test Station	Anritsu	MT8000A	626226191 2	N/A	May 07, 2025	Nov. 27 2025~ Feb. 14 2026	May 06, 2026	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 27 2025~ Feb. 14 2026	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-00098 9	N/A	N/A	Nov. 27 2025~ Feb. 14 2026	N/A	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
DC Power Supply	GW Instek	GPE-2323	GEU87122 1	0V~64V ;0A~6A	Apr. 14, 2025	Nov. 20, 2025 ~ Apr. 10, 2026	Apr. 13, 2026	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GEU87122 1	0V~64V ;0A~6A	Apr. 17, 2026	May. 25, 2026 ~ May. 27, 2026	Apr. 16, 2027	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101544	10Hz~44GHz	Aug. 18, 2025	Nov. 20, 2025 ~ May. 27, 2026	Aug. 17, 2026	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92003713	-30℃ ~95℃	May. 12, 2025	Nov. 20, 2025 ~ Apr. 10, 2026	May. 11, 2026	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	NA	Nov. 04, 2025	Nov. 20, 2025 ~ May. 27, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Base Station (Measure)	Anritsu	MT8000A	626201291 7	FR1	Jul. 04, 2025	Nov. 20, 2025 ~ May. 27, 2026	Jul. 03, 2026	Conducted (TH05-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13, 2025	Nov. 20, 2025 ~ May. 27, 2026	Jun. 13, 2026	Conducted (TH05-HY)
RF Cable	MVE	MCBL-LL403 P.50	E80002C	9KHz~40GHz	Aug. 01, 2025	Nov. 20, 2025 ~ May. 27, 2026	Jul. 31, 2026	Conducted (TH05-HY)
Software 1	Sporton	FCC 5GNR_FSV30 44_20231106	N/A	Conducted Test Item	N/A	Nov. 20, 2025 ~ May. 27, 2026	N/A	Conducted (TH05-HY)

6 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
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Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
---	--------



Appendix A. Test Results of Conducted Test

FR1 n48

<SISO Mode>

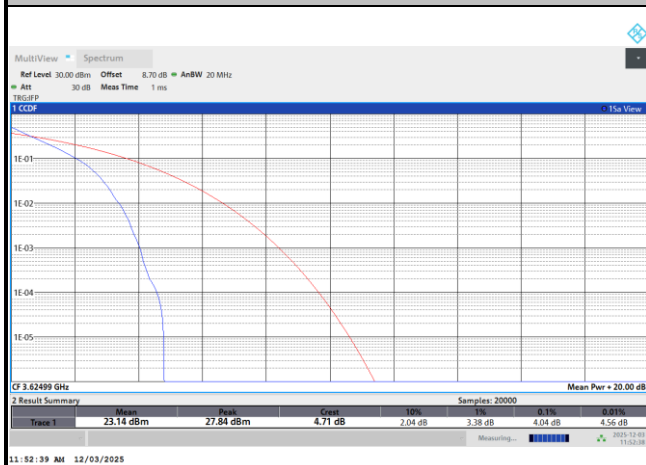
Peak-to-Average Ratio

Mode	FR1 n48 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.04	5.14	5.80	6.36	PASS
Mode	FR1 n48 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.62				PASS

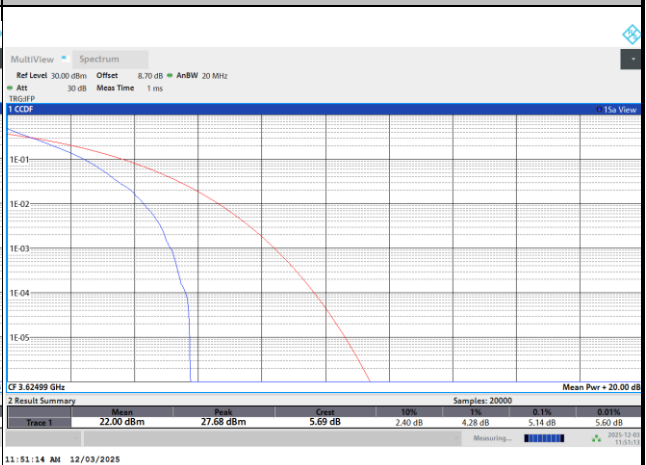


FR1 n48 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

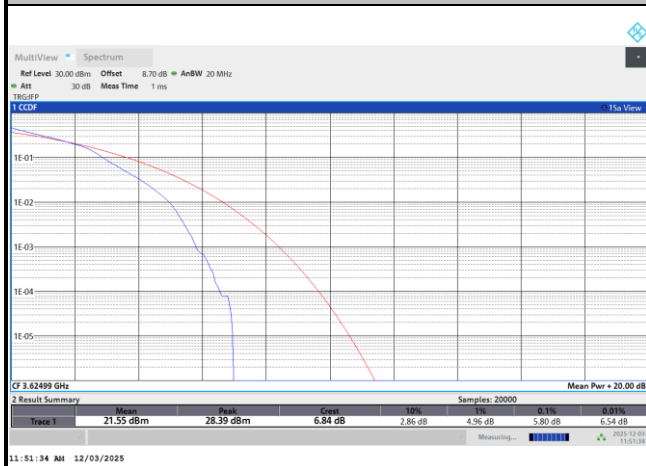
PI/2 BPSK



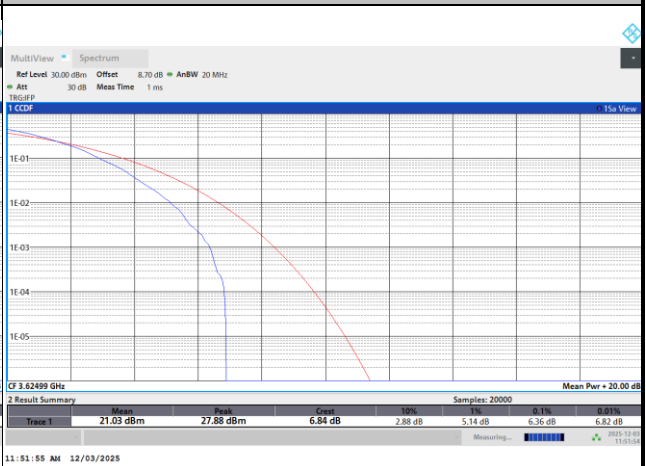
QPSK



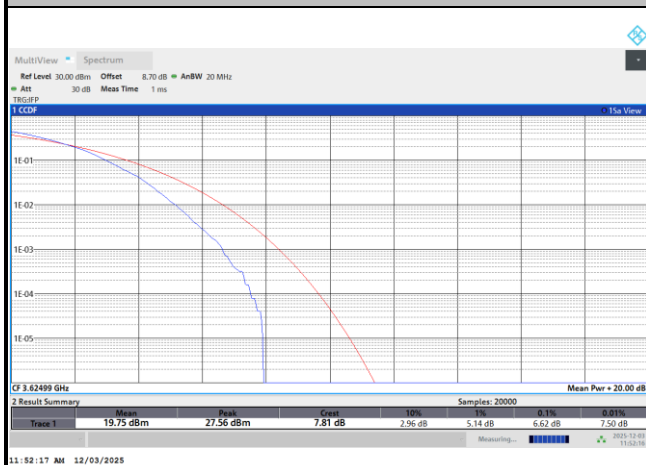
16QAM



64QAM



256QAM



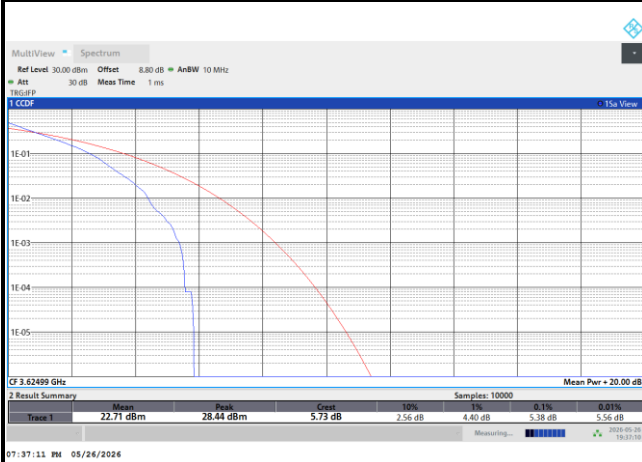


Mode	FR1 n48 / 10MHz / DFT-S OFDM		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.38	5.88	PASS
Mode	FR1 n48 / 15MHz / DFT-S OFDM		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.30	6.76	PASS
Mode	FR1 n48 / 30MHz / DFT-S OFDM		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.08	6.06	PASS
Mode	FR1 n48 / 40MHz / DFT-S OFDM		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	5.16	6.06	PASS

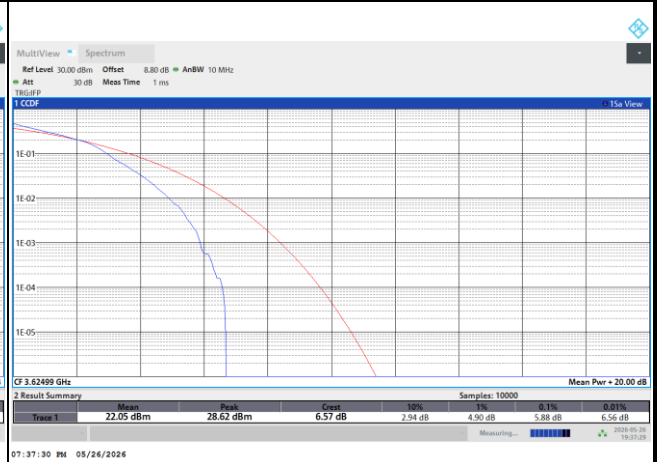


FR1 n48 / 10MHz / DFTs OFDM / Middle Channel / Full RB

QPSK

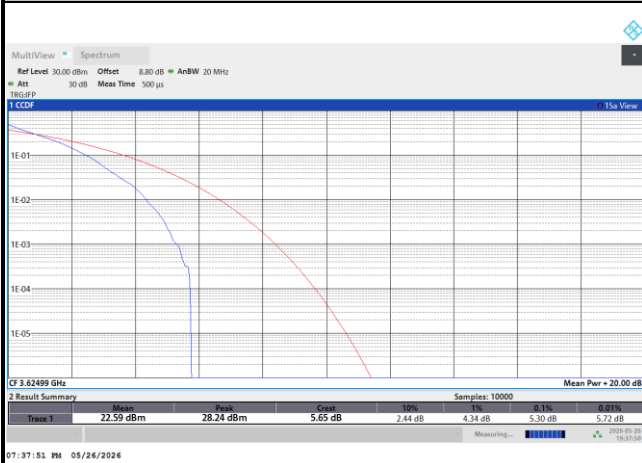


16QAM

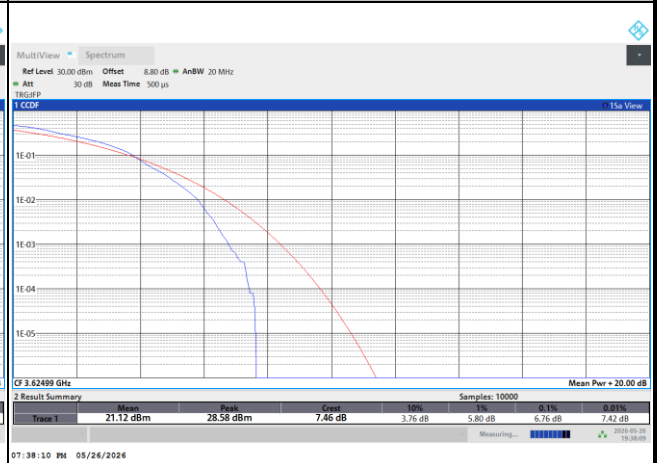


FR1 n48 / 15MHz / DFTs OFDM / Middle Channel / Full RB

QPSK



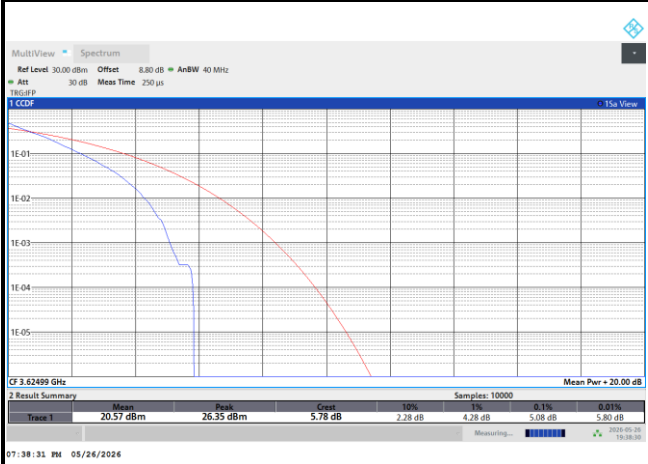
16QAM



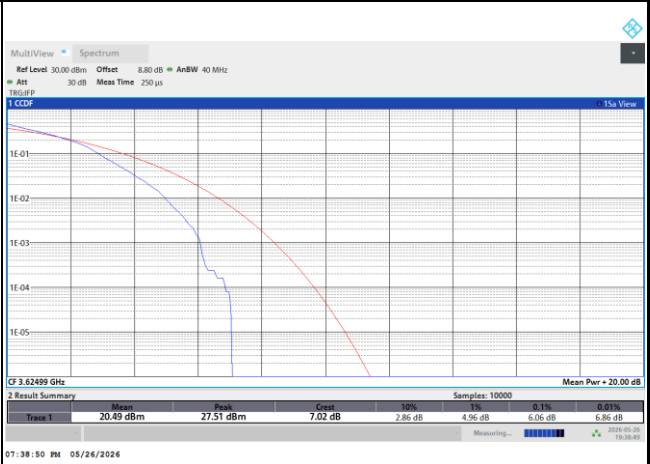


FR1 n48 / 30MHz / DFTs OFDM / Middle Channel / Full RB

QPSK

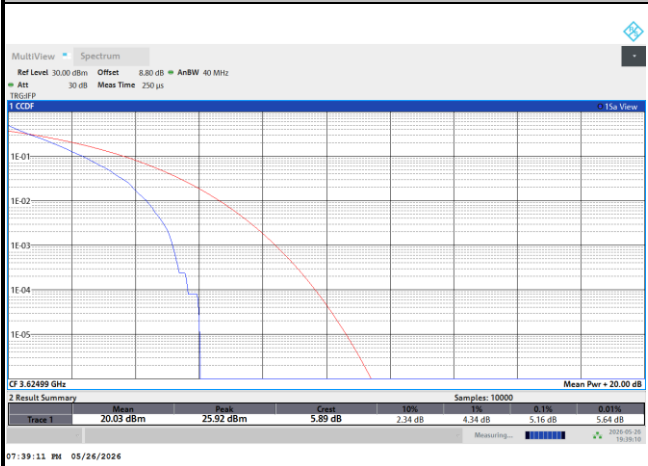


16QAM

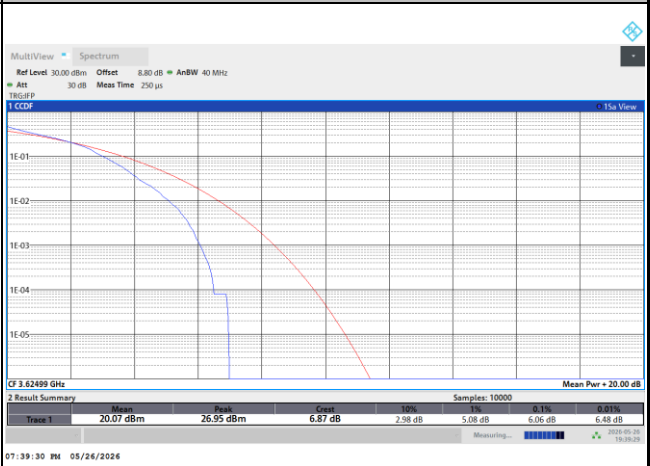


FR1 n48 / 40MHz / DFTs OFDM / Middle Channel / Full RB

QPSK

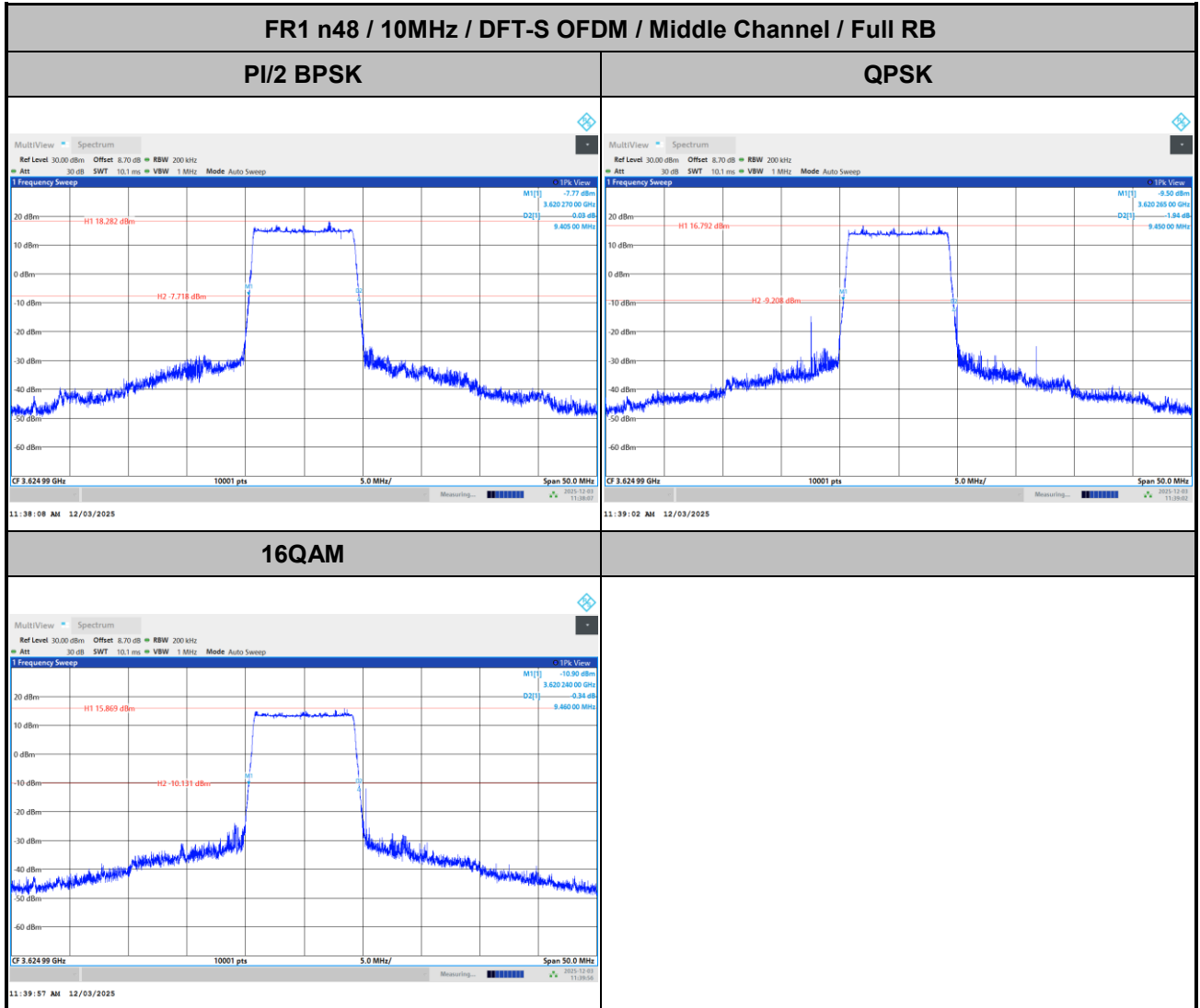


16QAM



**26dB Bandwidth**

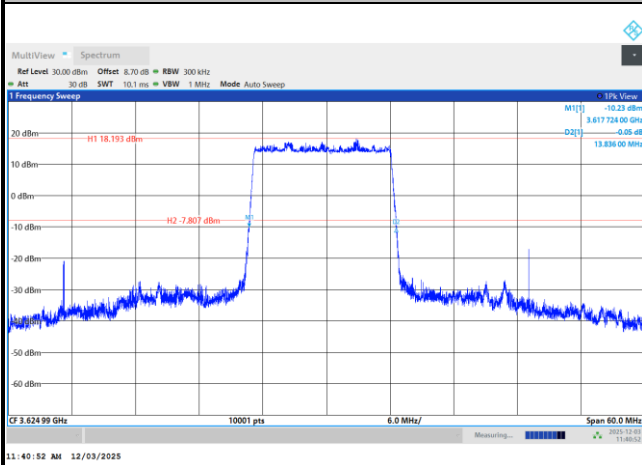
Mode	FR1 n48 : 26dB BW(MHz) / DFT-S OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	9.40	9.45	13.83	13.94	19.32	19.22	29.32	29.47
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	9.46		13.94		19.25		29.39	
BW	40MHz							
Mod.	PI/2 BPSK	QPSK						
Middle CH	38.35	38.31						
Mod.	16QAM							
Middle CH	38.33							



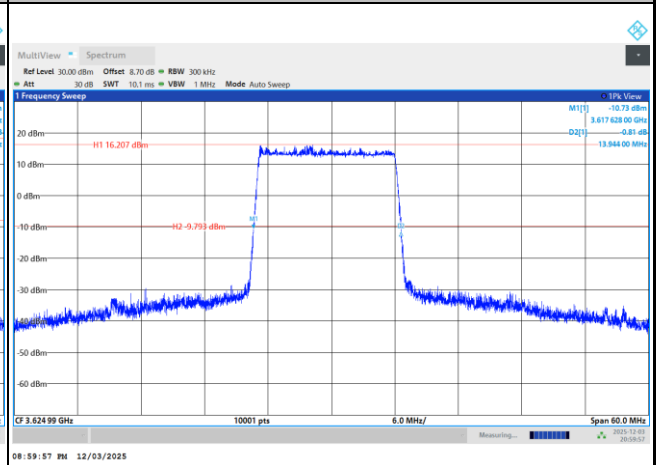


FR1 n48 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

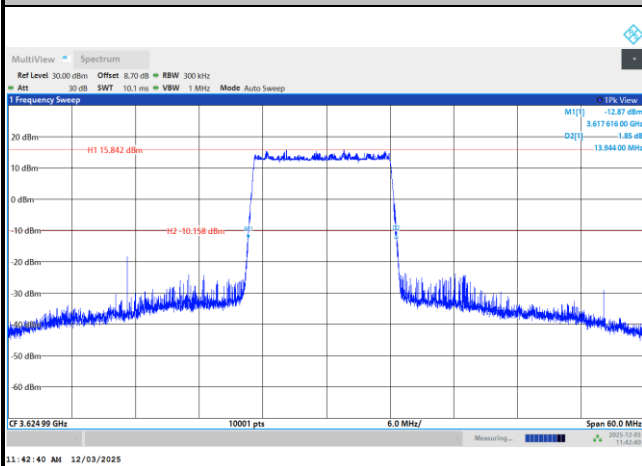
PI/2 BPSK

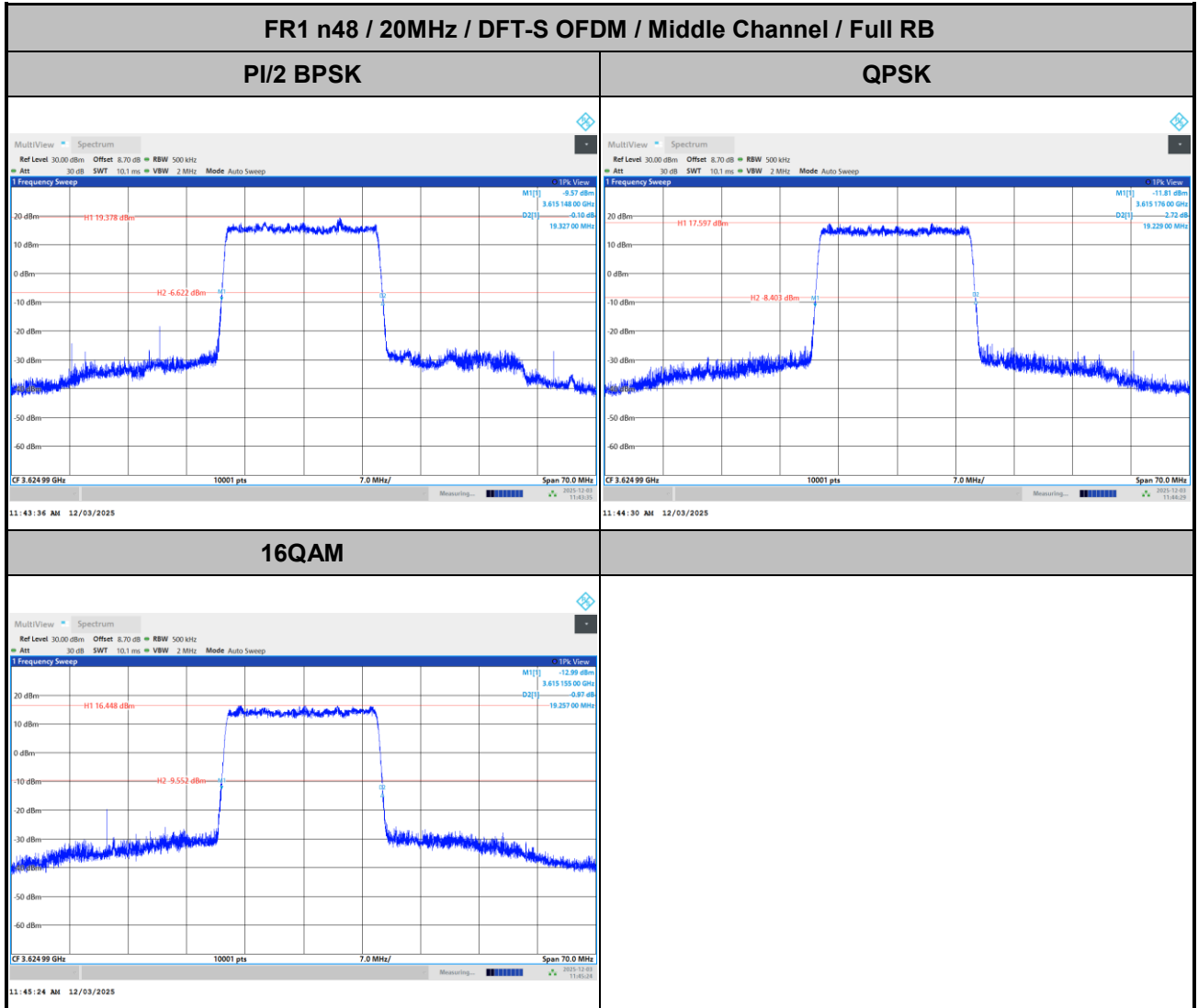


QPSK



16QAM

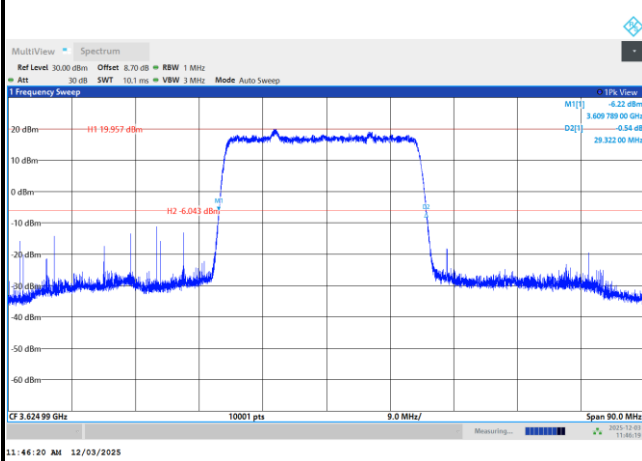




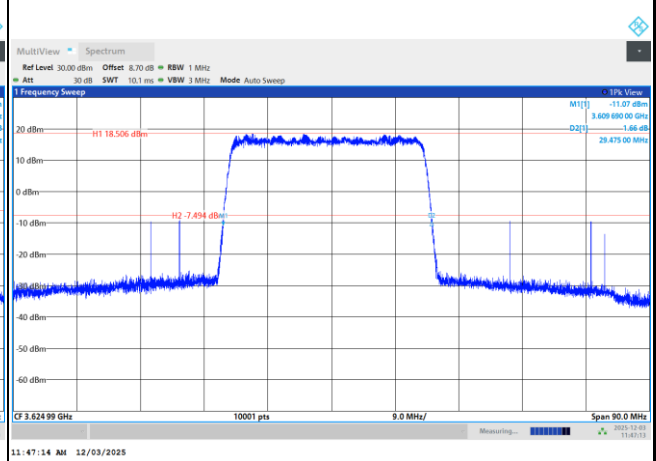


FR1 n48 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

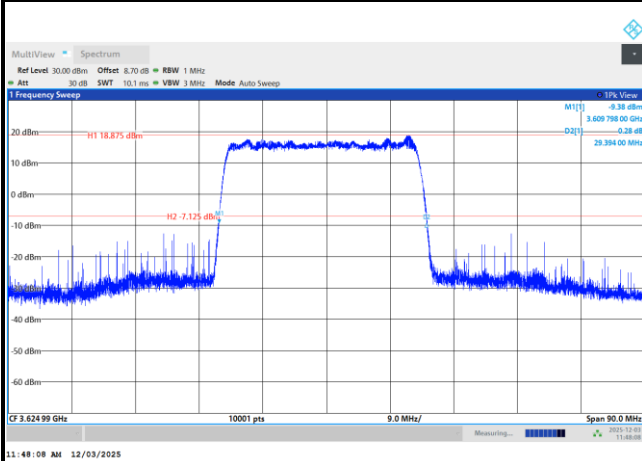
PI/2 BPSK



QPSK



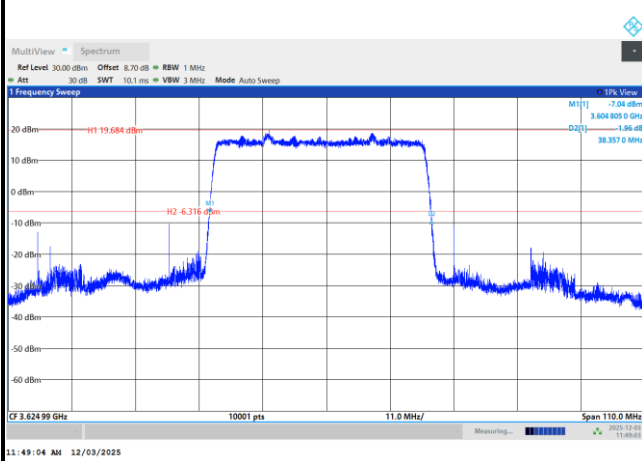
16QAM



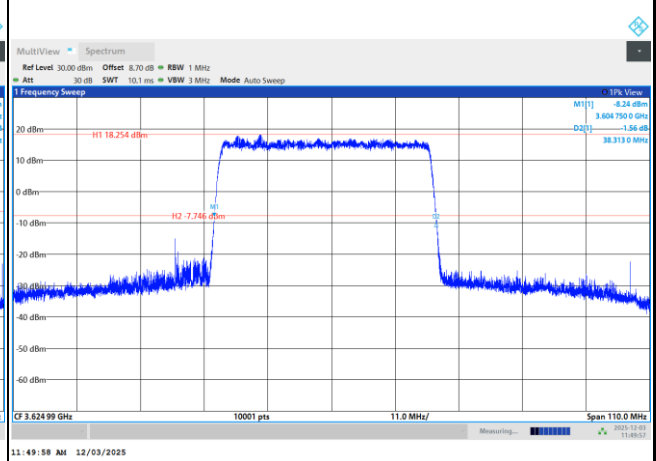


FR1 n48 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

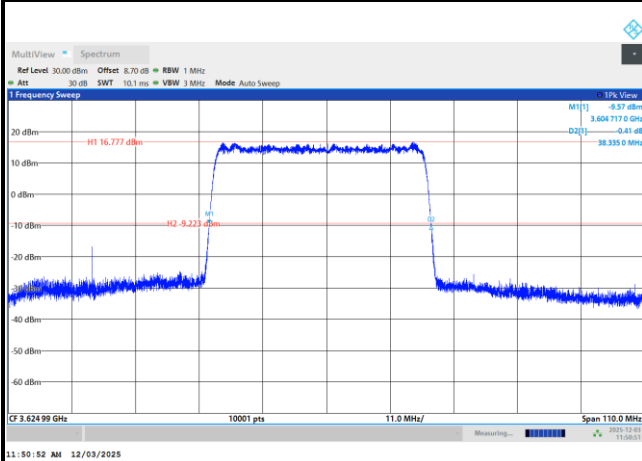
PI/2 BPSK



QPSK



16QAM



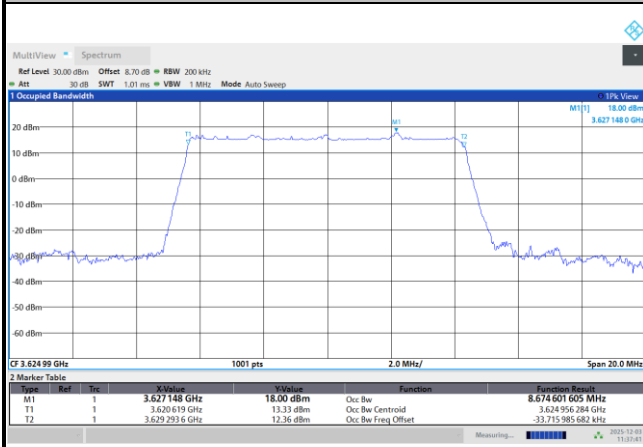
**Occupied Bandwidth**

Mode	FR1 n48 : 99%OBW(MHz) / DFT-S OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	8.67	8.66	12.95	12.97	18.13	18.02	27.24	27.27
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	8.61		12.92		18.00		27.12	
BW	40MHz							
Mod.	PI/2 BPSK	QPSK						
Middle CH	36.17	36.05						
Mod.	16QAM							
Middle CH	35.96							



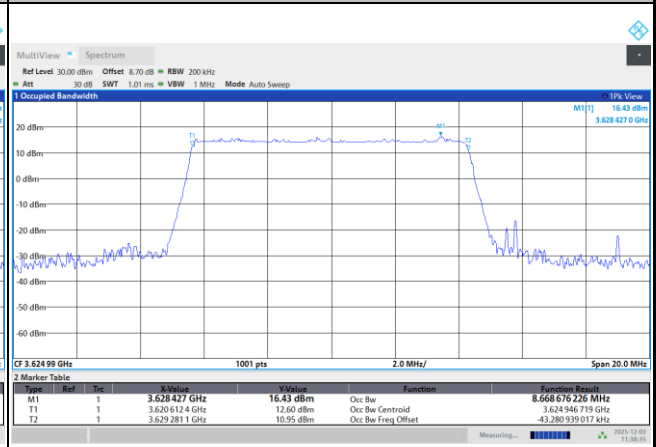
FR1 n48 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



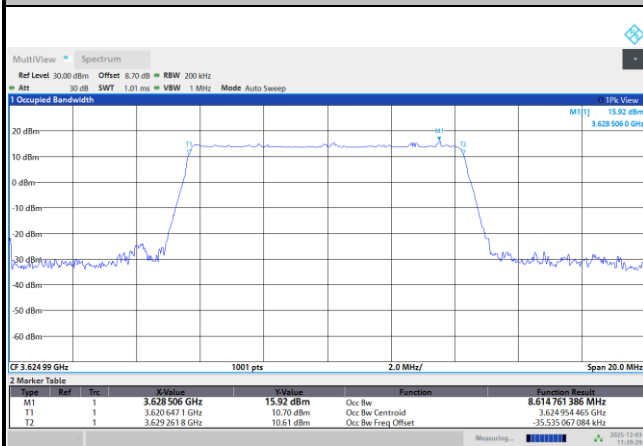
11:37:41 AM 12/03/2025

QPSK



11:38:36 AM 12/03/2025

16QAM

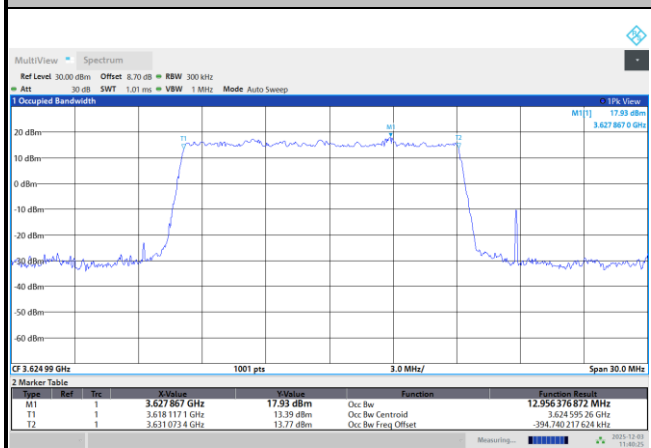


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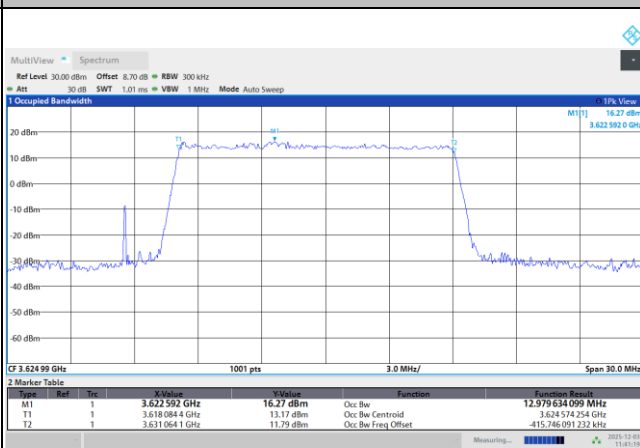


FR1 n48 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

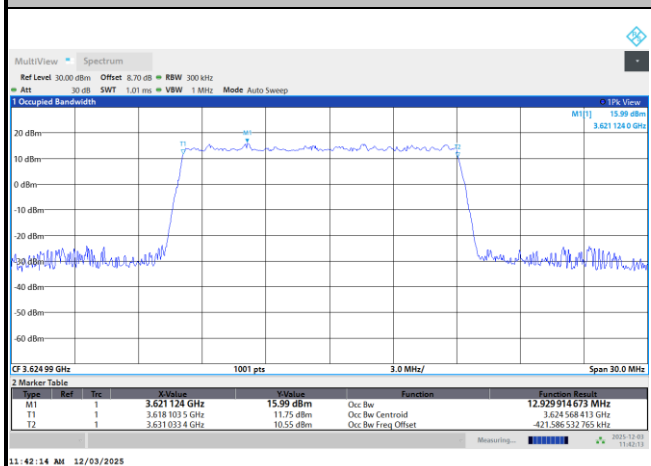
PI/2 BPSK



QPSK



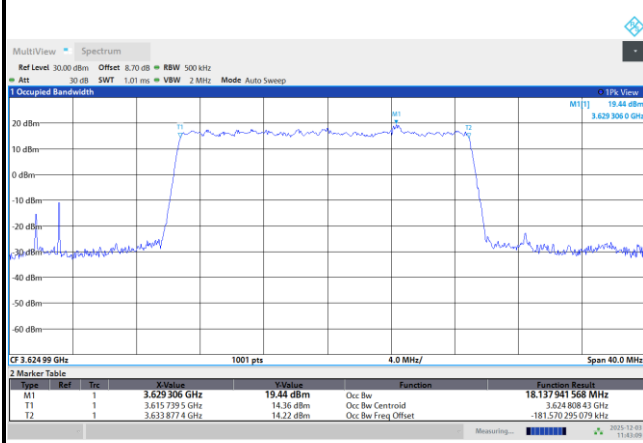
16QAM





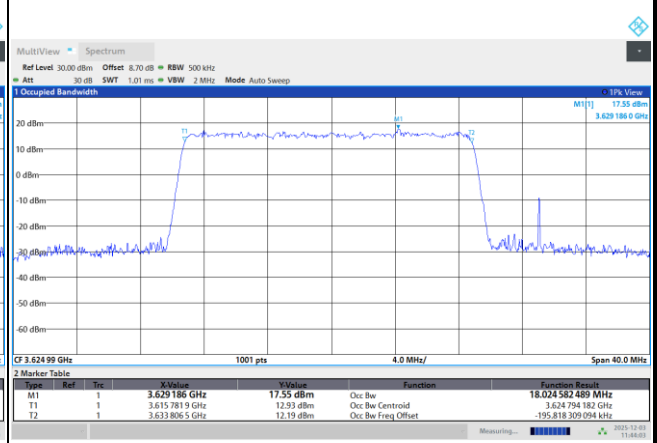
FR1 n48 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



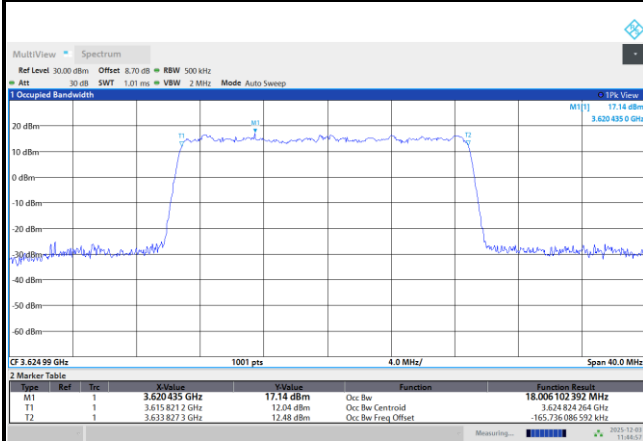
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QPSK



11:44:04 AM 12/03/2025

16QAM

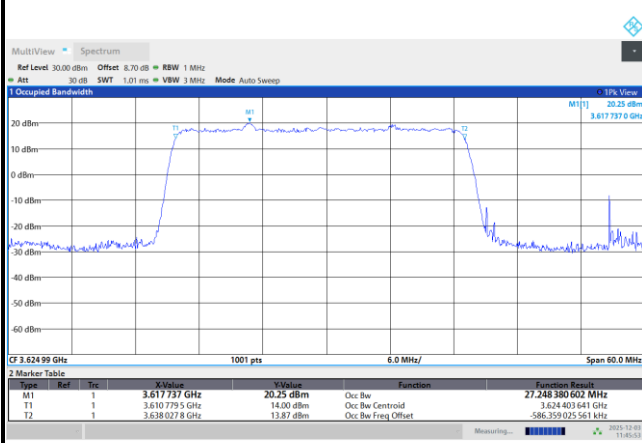


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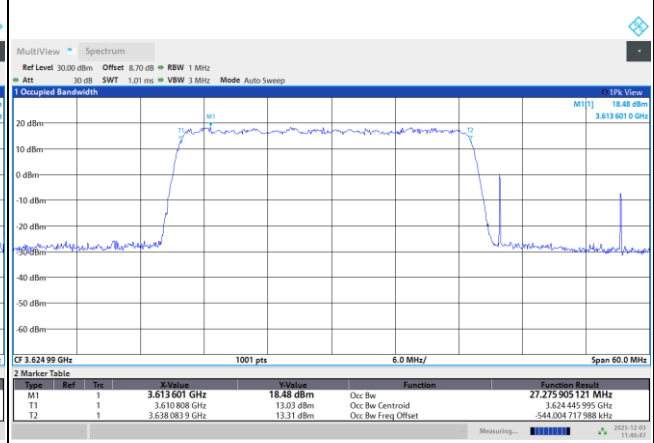


FR1 n48 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

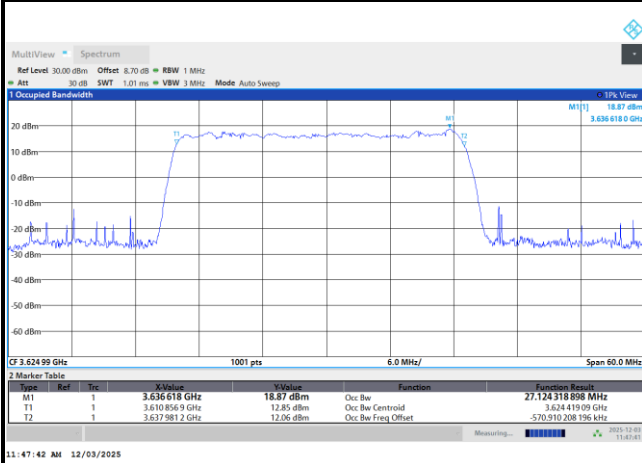
PI/2 BPSK



QPSK



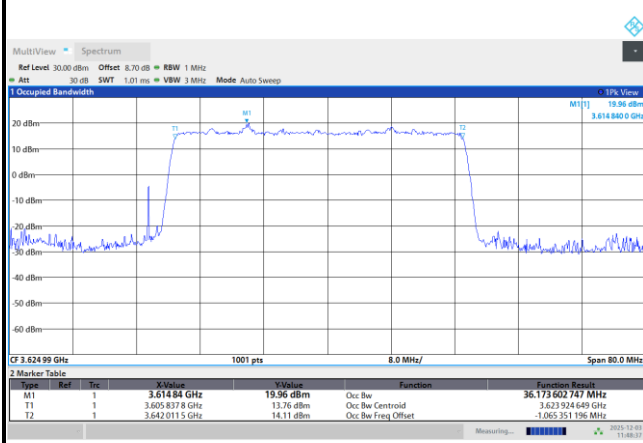
16QAM





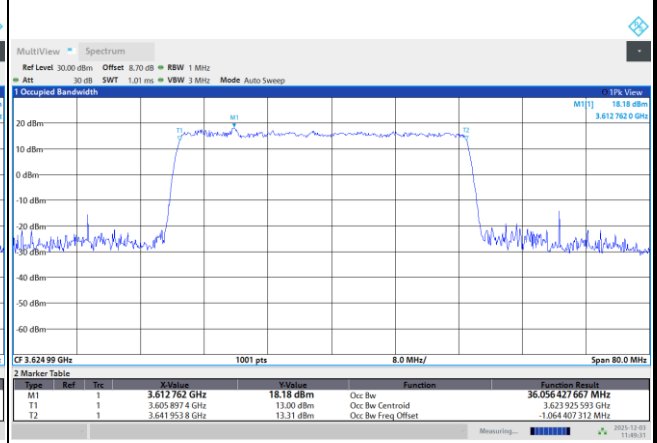
FR1 n48 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



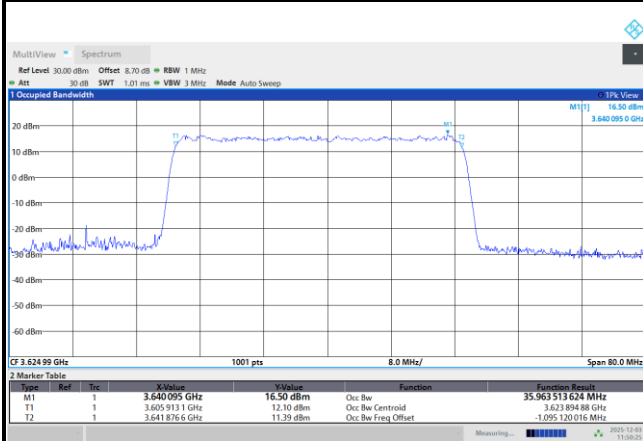
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QPSK



11:49:31 AM 12/03/2023

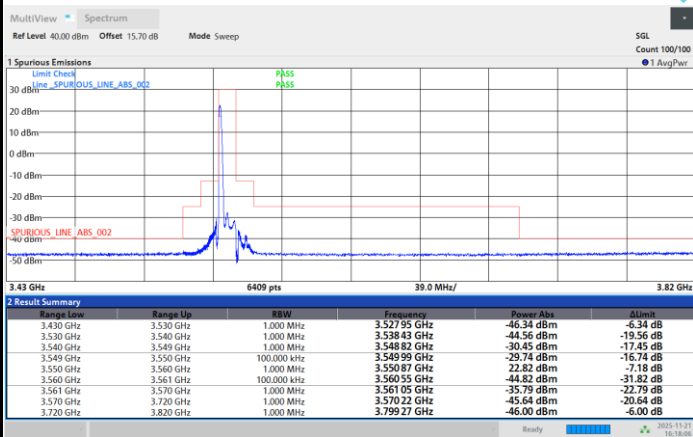
16QAM



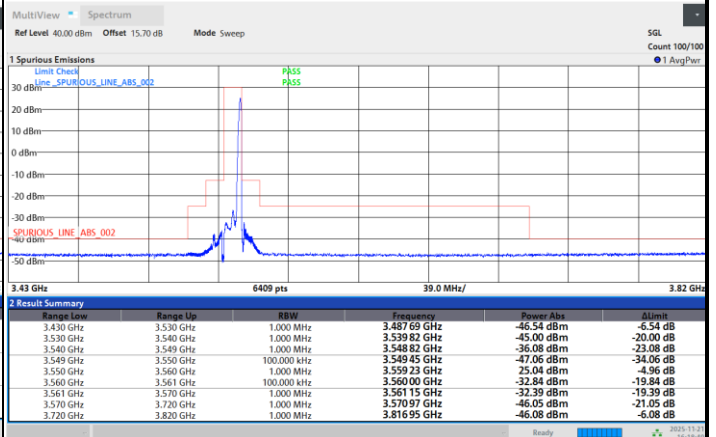
11:50:25 AM 12/03/2023

**Unwanted Emission (MASK)**

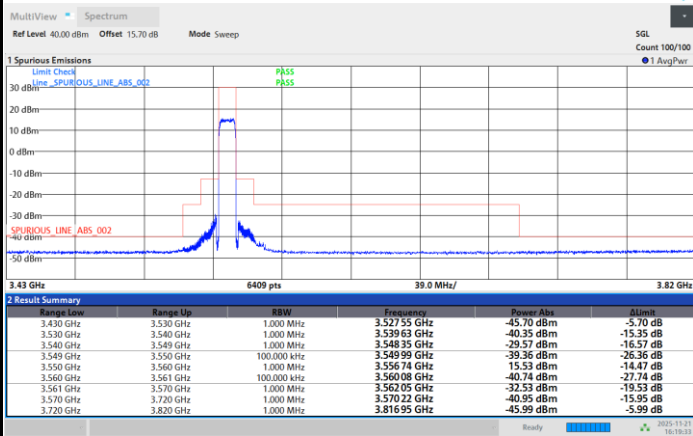
FR1 n48 / 10MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel**1RB0****1RBmax**

04:18:06 PM 11/21/2025



04:18:50 PM 11/21/2025

Full RB

04:19:34 PM 11/21/2025

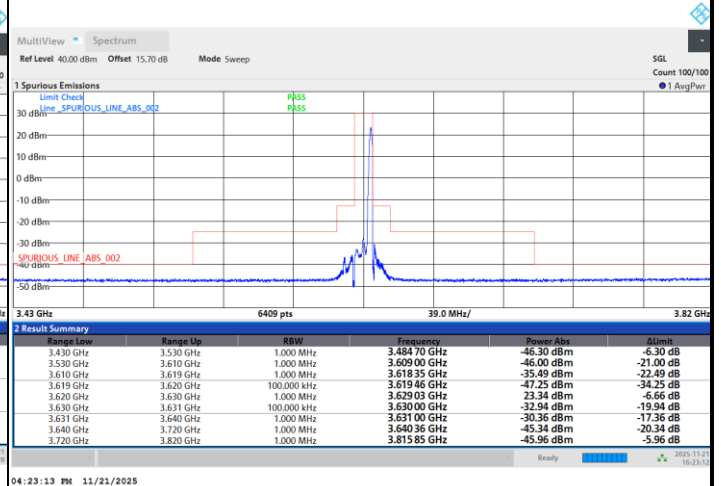
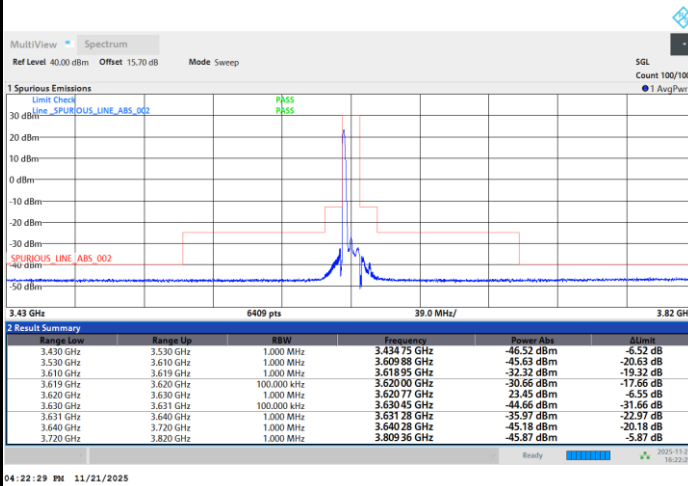


FR1 n48 / 10MHz / DFT-S OFDM / PI/2 BPSK

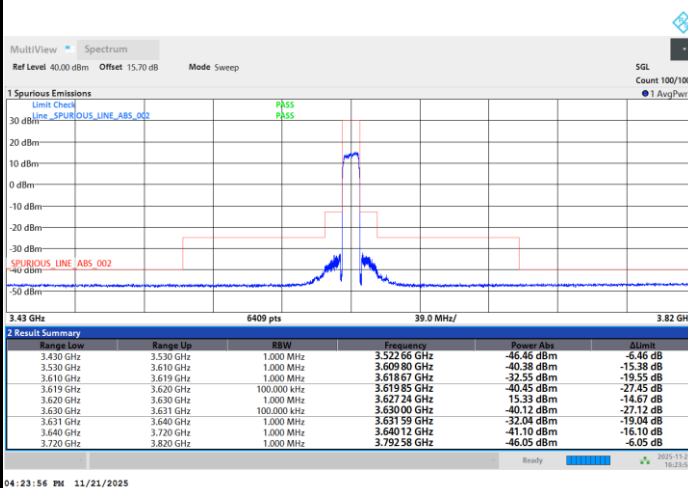
Middle Channel

1RB0

1RBmax



Full RB



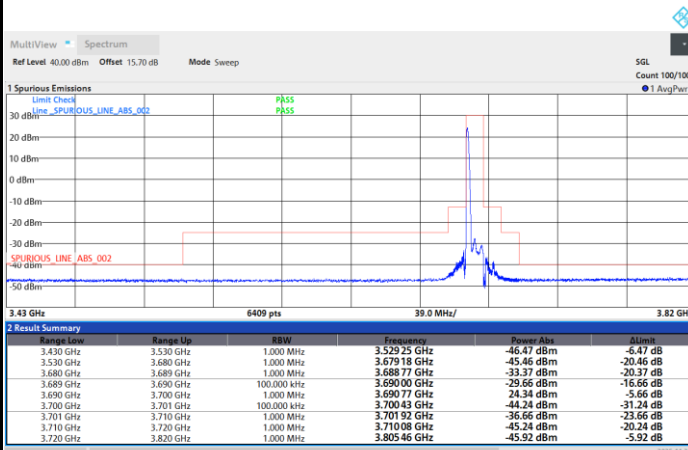


FR1 n48 / 10MHz / DFT-S OFDM / PI/2 BPSK

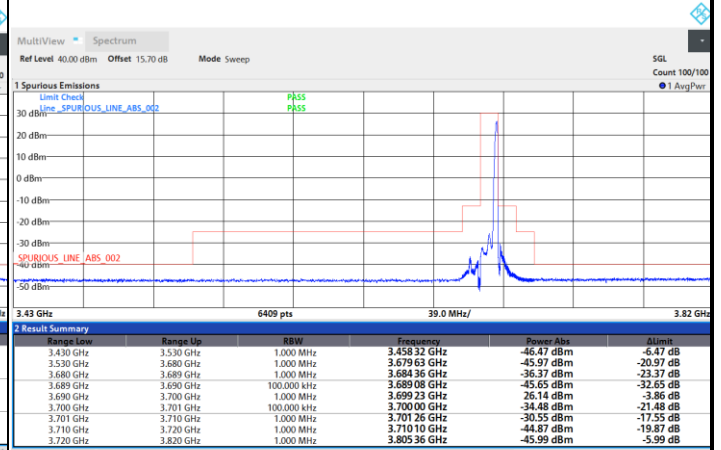
Highest Channel

1RB0

1RBmax

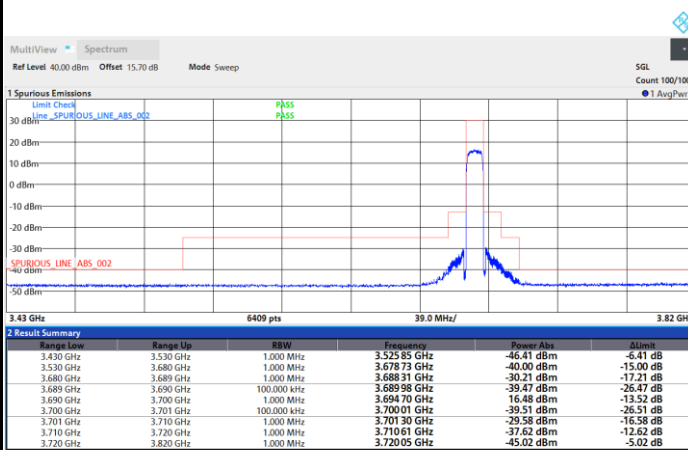


04:26:52 PM 11/21/2025



04:27:36 PM 11/21/2025

Full RB



04:28:20 PM 11/21/2025

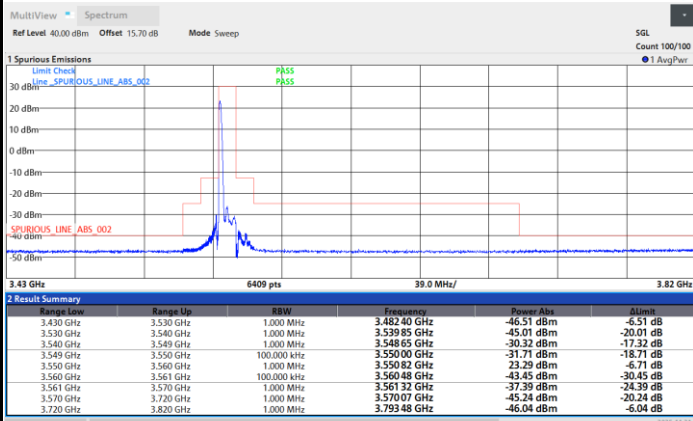


FR1 n48 / 10MHz / DFT-S OFDM / QPSK

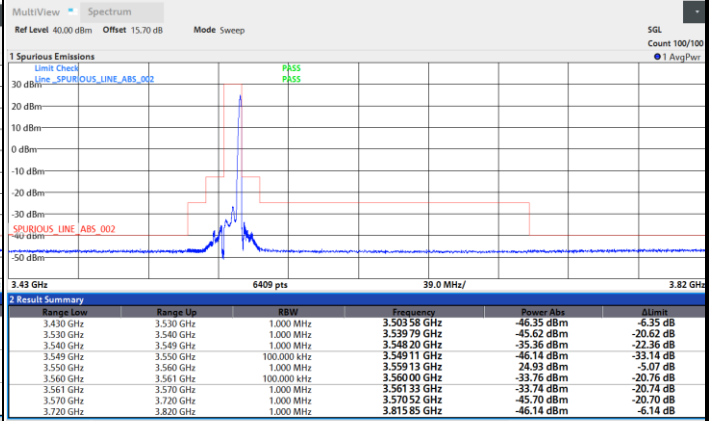
Lowest Channel

1RB0

1RBmax

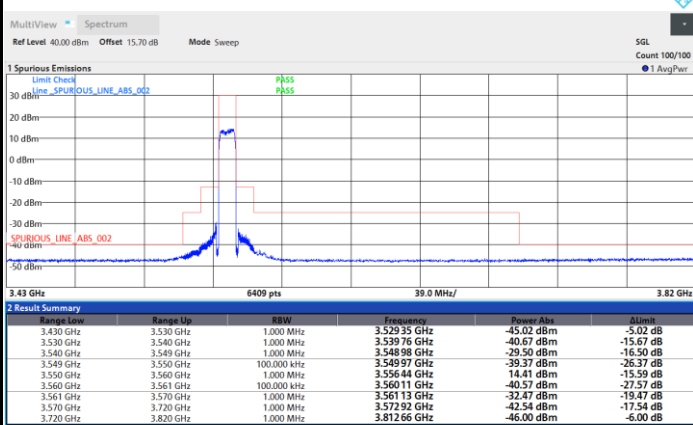


04:20:17 PM 11/21/2025



04:21:01 PM 11/21/2025

Full RB



04:21:44 PM 11/21/2025

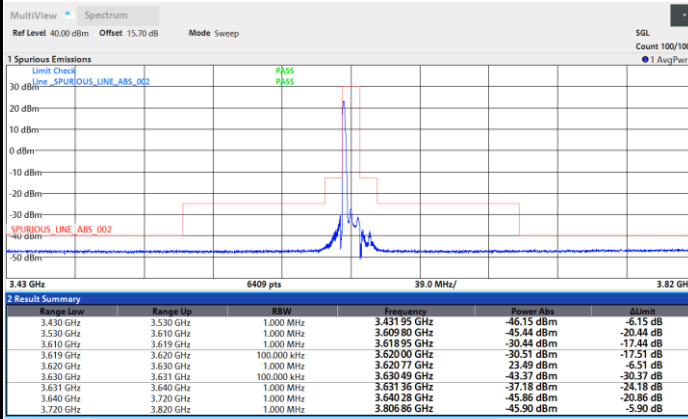


FR1 n48 / 10MHz / DFT-S OFDM / QPSK

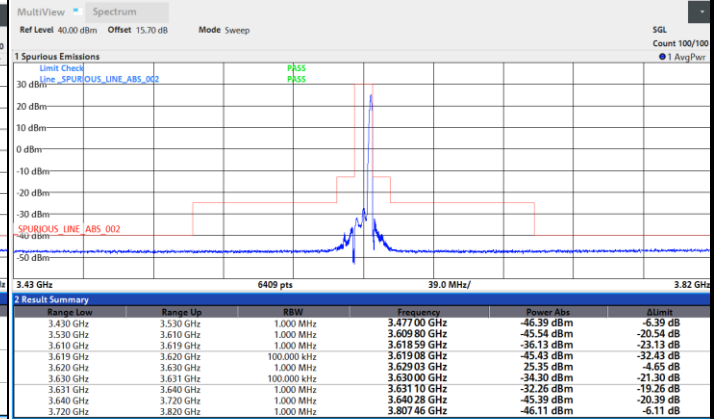
Middle Channel

1RB0

1RBmax

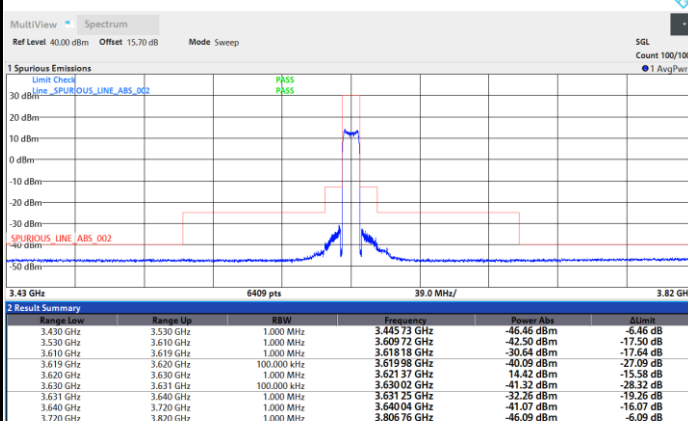


04:24:39 PM 11/21/2025



04:25:23 PM 11/21/2025

Full RB



04:26:07 PM 11/21/2025

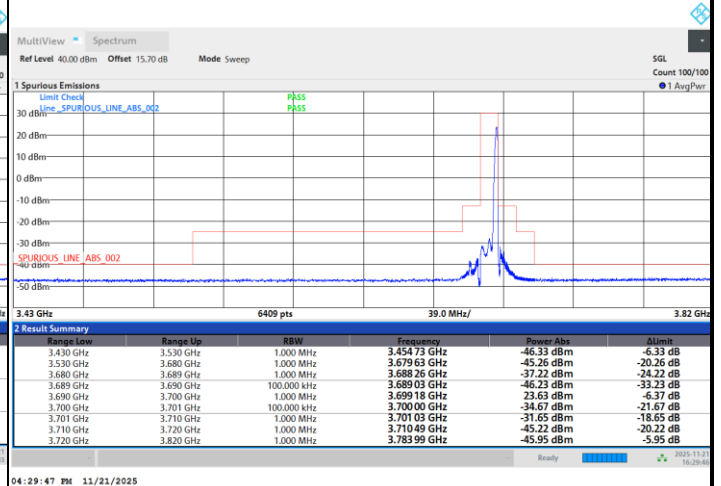
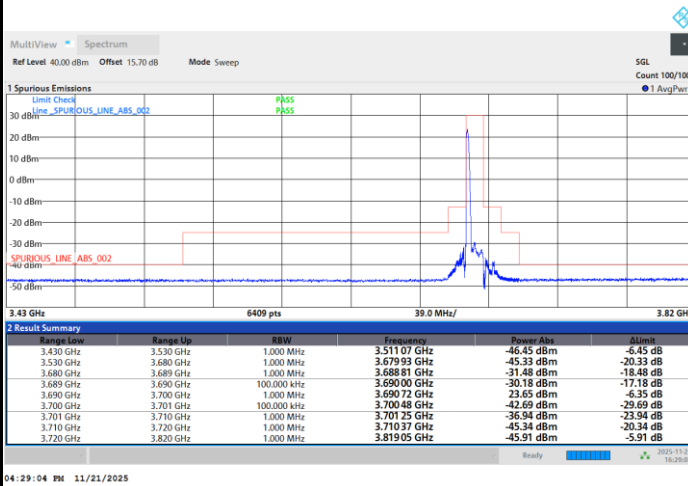


FR1 n48 / 10MHz / DFT-S OFDM / QPSK

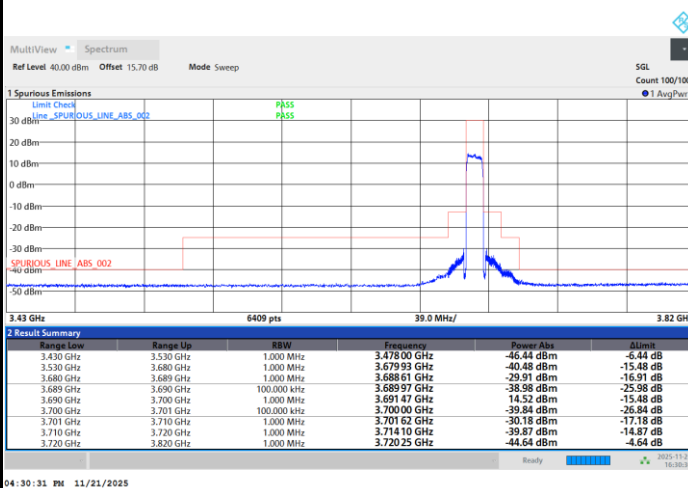
Highest Channel

1RB0

1RBmax



Full RB

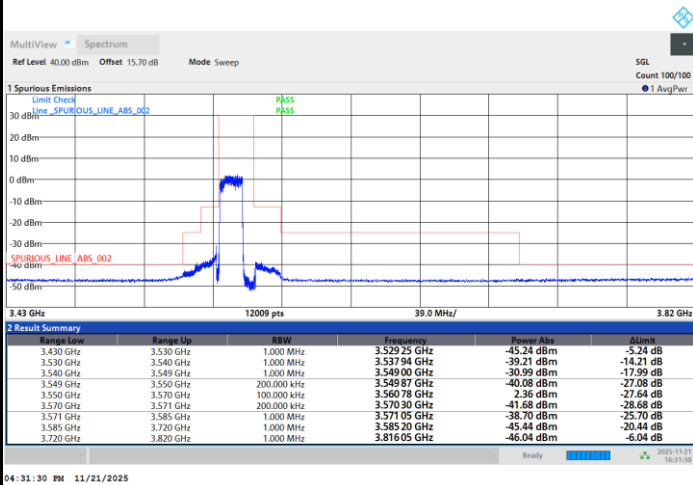




FR1 n48 / 15MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel

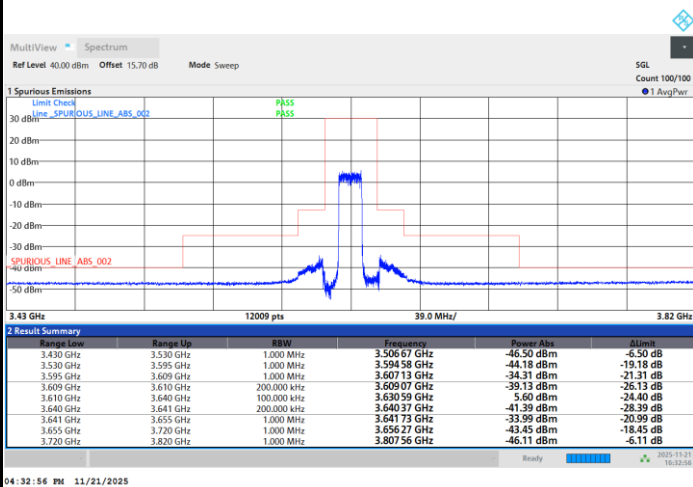
Full RB



FR1 n48 / 15MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

Full RB

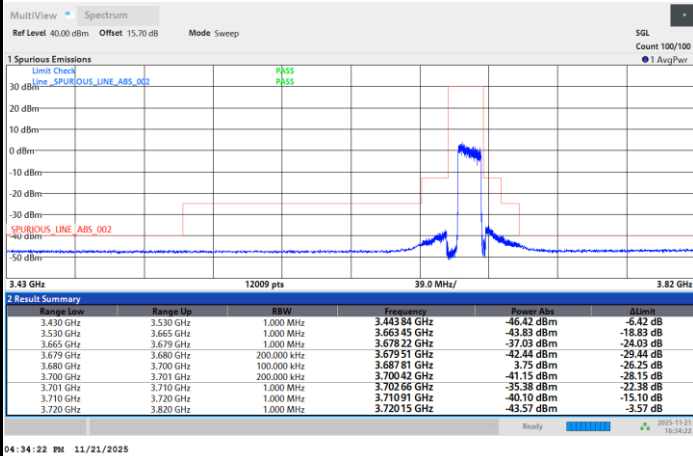




FR1 n48 / 15MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

Full RB

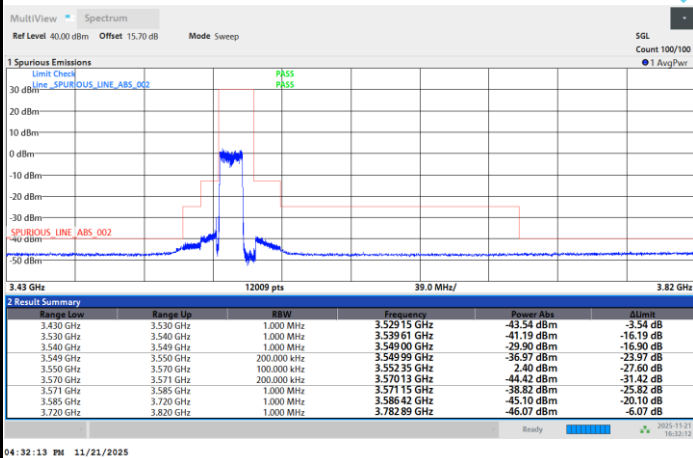


04:34:22 PM 11/21/2025

FR1 n48 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel

Full RB



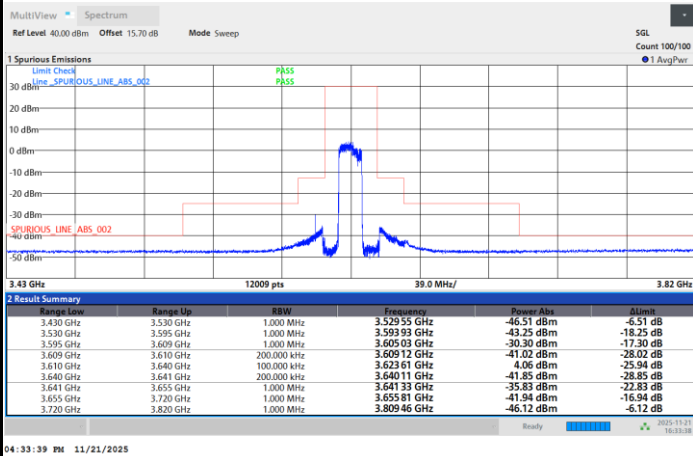
04:32:13 PM 11/21/2025



FR1 n48 / 15MHz / DFT-S OFDM / QPSK

Middle Channel

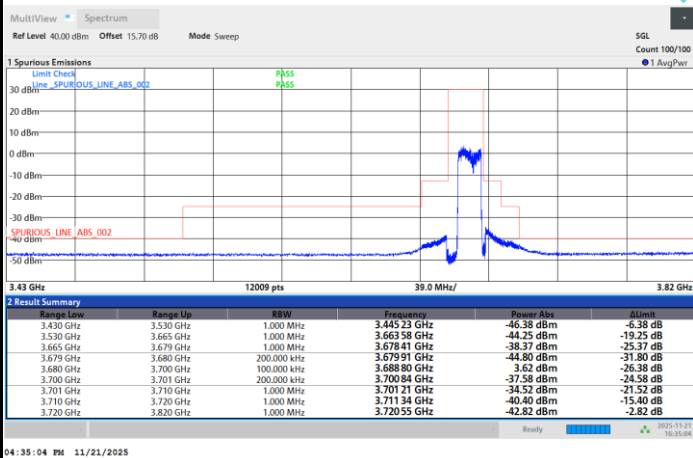
Full RB



FR1 n48 / 15MHz / DFT-S OFDM / QPSK

Highest Channel

Full RB

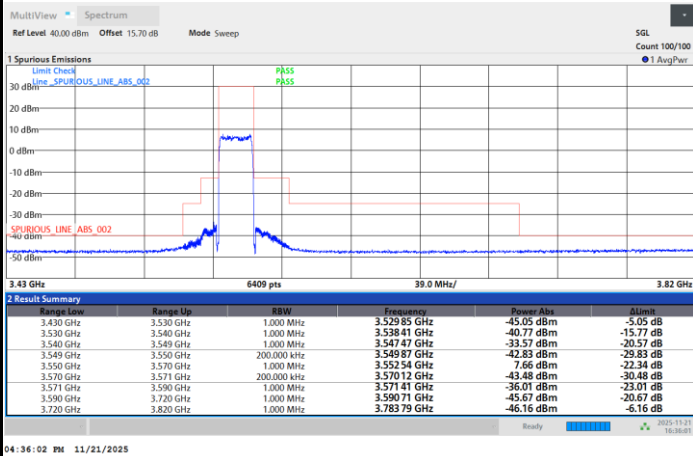




FR1 n48 / 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel

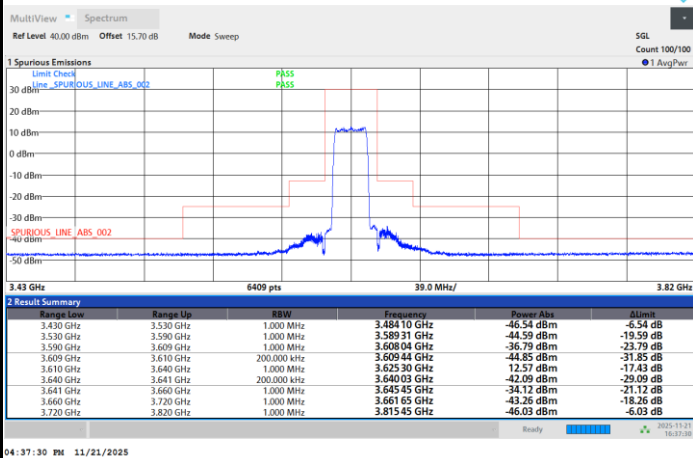
Full RB



FR1 n48 / 20MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

Full RB

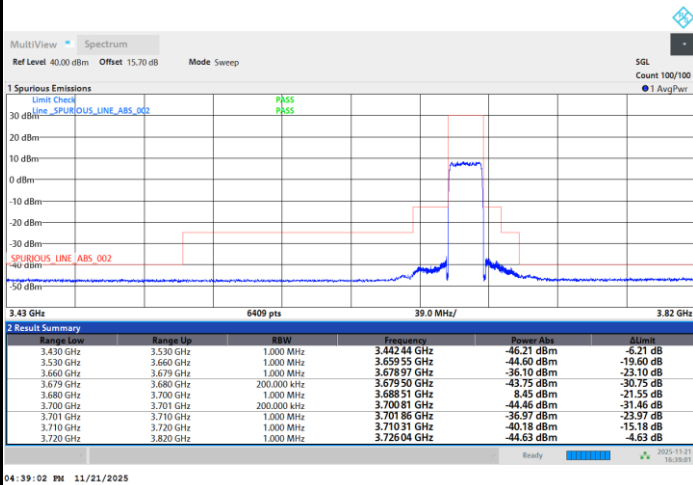




FR1 n48 / 20MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

Full RB



FR1 n48 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel

Full RB

