FCC RADIO TEST REPORT

FCC ID	:	A4RGUL82
Equipment	:	Phone
Model Name	:	GUL82
Applicant	:	Google LLC 1600 Amphitheatre Parkway, Mountain View, CA, 94043 USA
Standard	:	FCC 47 CFR Part 2, 96

The product was received on Nov. 29, 2024 and testing was performed from Nov. 29, 2024 to Mar. 15, 2025. We, Sporton International Inc. EMC & Wireless Communications 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

Table of Contents

History of this test report **3**
Summary of Test Result **4**
1 General Description **5**
1.1 Product Feature of Equipment Under Test 5
1.2 Modification of EUT 5
1.3 Testing Site 6
1.4 Applied Standards 7
2 Test Configuration of Equipment Under Test **8**
2.1 Test Mode 8
2.2 Connection Diagram of Test System 10
2.3 Support Unit used in test configuration and system 10
2.4 Measurement Results Explanation Example 11
2.5 Frequency List of Low/Middle/High Channels 11
3 Conducted Test Items **12**
3.1 Measuring Instruments 12
3.2 Conducted Output Power Measurement 13
3.3 Peak-to-Average Ratio 14
3.4 EIRP 15
3.5 Occupied Bandwidth 17
3.6 Conducted Band Edge 18
3.7 Conducted Spurious Emission 19
3.8 Frequency Stability 20
4 Radiated Test Items **21**
4.1 Measuring Instruments 21
4.2 Test Setup 21
4.3 Test Result of Radiated Test 22
4.4 Radiated Spurious Emission 23
5 List of Measuring Equipment **24**
6 Measurement Uncertainty **25**
Appendix A. Test Results of Conducted Test
Appendix B. Test Results of Radiated Test
Appendix C. Test Setup Photographs

History of this test report

Report No.	Version	Description	Issue Date
FG4N0918E	01	Initial issue of report	Apr. 09, 2025

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/manufacturer 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: Josie Hsu

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, Thread, Wi-Fi 802.11be, NFC, WPC Rx, UWB and GNSS Rx. **Antenna Type** **WWAN:** **<Ant. 1>:** ILA Antenna **<Ant. 5>:** IFA Antenna **<Ant. 6>:** IFA Antenna **<Ant. 7>:** IFA Antenna

EUT Information List	
S/N	Performed Test Item
51061FDCQ000B2	Conducted Measurement EIRP
4B151FDCQ00078	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	-3.2	-4.3	-2.4	0.8	6	7
MIMO Antenna information						
Band	**Ant6+1**	**Ant6+5**	**Ant7+1**	**Ant7+5**		
n48	-2.78	-3.25	-0.75	-1.04	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 TxD/MIMO modes, Antenna 7+1 for n48 is selected as the worst mode to be reported for conducted test.
4. The MIMO n48 composite gain is calculated based on KDB 662911 D01 uncorrelated formula.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Site

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH03-HY
Test Engineer	Jimmy Cheng and Hank Chen
Temperature (℃)	20.1~22.3
Relative Humidity (%)	50.4~55.9

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.**
	03CH21-HY (TAF Code: 3786)
Test Engineer	Fred Tseng, Ray Lung and Sky Chang
Temperature (℃)	18~26
Relative Humidity (%)	50~70
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

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

FCC Designation No.: TW1190 and 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	Z with Adapter	X with Adapter
n48 MIMO	Z 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

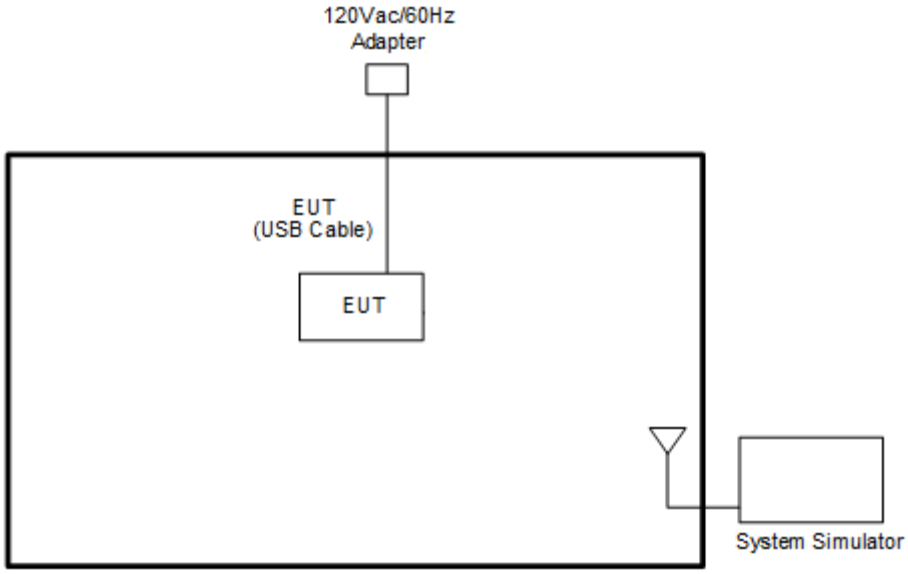
Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D, E (SISO) F, G, H, I (MIMO)	All	1, Half, Full	L, M, H
EIRP	A, B, C, D, E (SISO) F, G, H, I (MIMO)	All	1, Half, Full	L, M, H
PAR	A, B, C, D, E, F, G, H, I (SISO) F, G, H, I (MIMO)	20 MHz or less	Outer_Full	M
Bandwidth	A, F, 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. For 5G NR test combination is EN-DC 66A_n48A.
5. 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.
6. All the radiated test cases were performed with USB Cable 2.

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 :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.5 + 10 = 14.5 (dB)

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

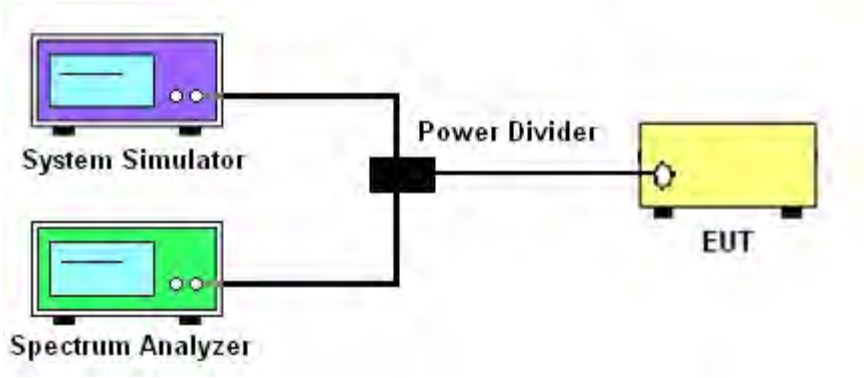
3.1 Measuring Instruments

See list of measuring instruments of this test report.

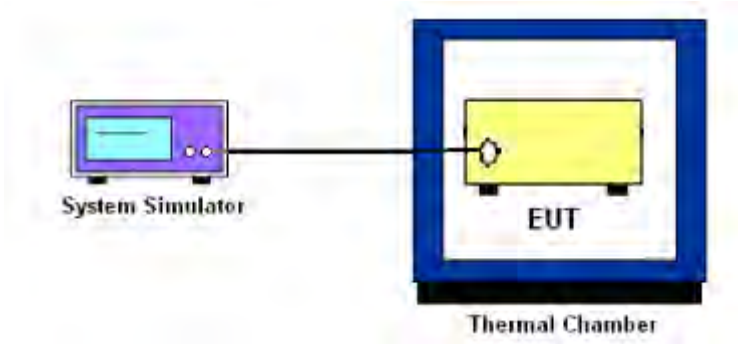
3.1.1 Test Setup

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 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.

3.3 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 = PT + GT – LC, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = 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:

1. Total channel power is complied with EIRP limit 23dBm/10MHz.
2. For MIMO mode, the directional gain calculation is following F)2)d) of KDB 662911 D01 v02r01.

d) *Unequal antenna gains, with equal transmit powers.* For antenna gains given by $G_1, G_2, \ldots, G_N$ dBi

(i) If transmit signals are *correlated*, then
Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \ldots + 10^{G_N/20})^2 / N_{ANT}]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

(ii) If all transmit signals are *completely uncorrelated*, then
Directional gain = $10 \log[(10^{G_1/10} + 10^{G_2/10} + \ldots + 10^{G_N/10})/N_{ANT}]$ dBi

					MIMO Mode Uncorrelated
5G NR n48	**Ant 1 (dBi)**	**Ant 5 (dBi)**	**Ant 6 (dBi)**	**Ant 7 (dBi)**	**NSS = 2 (dBi)**
Ant. 6 + 1	-3.20	-4.30	-2.40	0.80	-2.78
Ant. 6 + 5	-3.20	-4.30	-2.40	0.80	-3.25
Ant. 7 + 1	-3.20	-4.30	-2.40	0.80	-0.75
Ant. 7 + 5	-3.20	-4.30	-2.40	0.80	-1.04

Directional gain for Ant. 6+1 uncorrelated of MIMO mode derived from formula which is

10 x log { [10^ (-2.40 dBi / 10) + 10^ (-3.20 dBi / 10)] / 2 }

= -2.78 dBi

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 >= 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 10log(NTX=2) = 3.01dB 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 10log(NTX=2) = 3.01dB 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.

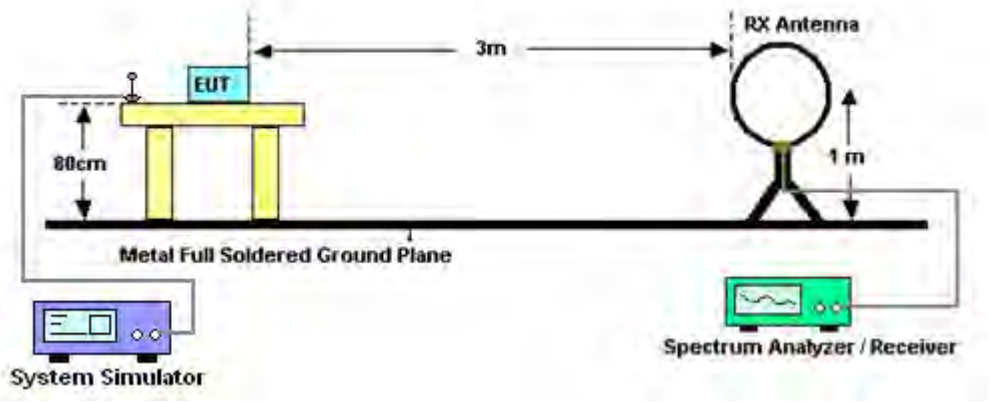
4 Radiated Test Items

4.1 Measuring Instruments

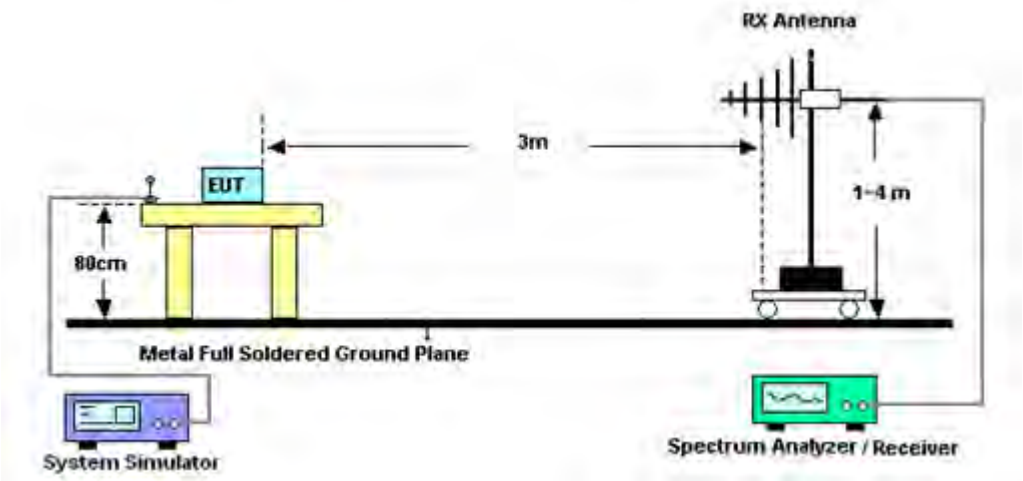
See list of measuring instruments of this test report.

4.2 Test Setup

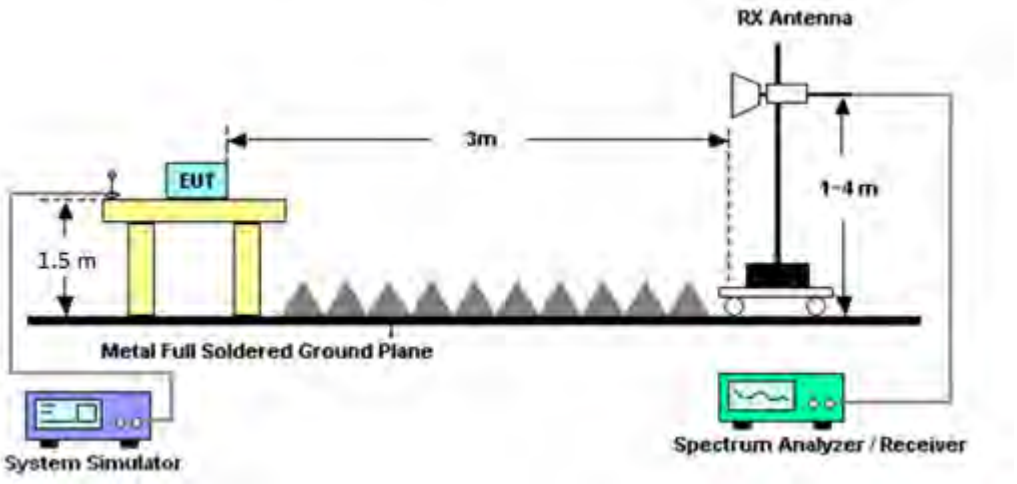
For radiated test below 30MHz



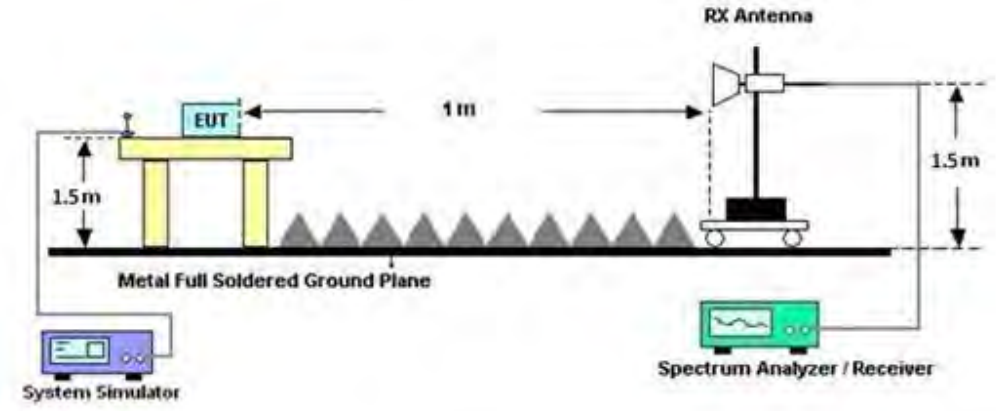
For radiated test from 30MHz to 1GHz



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)
   EIRP(dBm) = Level (dBuV/m) + 20log(d) -104.77,
   where d is the distance at which filed 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	100488	9 kHz~30 MHz	Aug. 29, 2024	Jan. 29, 2025~ Feb. 21, 2025	Aug. 28, 2025	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Dec. 17, 2024	Jan. 29, 2025~ Feb. 21, 2025	Dec. 16, 2025	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A18 EN	1GHz~18GHz	Jul. 11, 2024	Jan. 29, 2025~ Feb. 21, 2025	Jul. 10, 2025	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1224	18GHz~40GHz	Jun. 24, 2024	Jan. 29, 2025~ Feb. 21, 2025	Jun. 23, 2025	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 14, 2024	Jan. 29, 2025~ Feb. 21, 2025	Jul. 13, 2025	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 27, 2024	Jan. 29, 2025~ Feb. 21, 2025	Sep. 26, 2025	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Sep. 02, 2024	Jan. 29, 2025~ Feb. 21, 2025	Sep. 01, 2025	Radiation (03CH21-HY)
Spectrum Analyzer	Keysight	N9010B	MY62170358	10Hz~44GHz	Sep. 06, 2024	Jan. 29, 2025~ Feb. 21, 2025	Sep. 05, 2025	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 06, 2024	Jan. 29, 2025~ Feb. 21, 2025	Mar. 05, 2025	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,80 4612/2,8039 54/2	30MHz~40GHz	Aug. 12, 2024	Jan. 29, 2025~ Feb. 21, 2025	Aug. 11, 2025	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2024	Jan. 29, 2025~ Feb. 21, 2025	Oct. 20, 2025	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 29, 2025~ Feb. 21, 2025	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jan. 29, 2025~ Feb. 21, 2025	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jan. 29, 2025~ Feb. 21, 2025	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Jan. 29, 2025~ Feb. 21, 2025	N/A	Radiation (03CH21-HY)
DC Power Supply	GW Instek	GPE-2323	GET910896	0V~64V ; 0A~6A	Nov. 26, 2024	Nov. 29, 2024~ Mar. 15, 2025	Nov. 25, 2025	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	Apr. 23, 2024	Nov. 29, 2024~ Mar. 15, 2025	Apr. 22, 2025	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 06, 2024	Nov. 29, 2024~ Mar. 15, 2025	Sep. 05, 2025	Conducted (TH03-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	NA	Mar. 14, 2024	Nov. 29, 2024~ Mar. 15, 2025	Mar. 13, 2025	Conducted (TH03-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	NA	Mar. 03, 2025	Nov. 29, 2024~ Mar. 15, 2025	Mar. 02, 2026	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262012917	FR1	May 23, 2024	Nov. 29, 2024~ Mar. 15, 2025	May 22, 2025	Conducted (TH03-HY)
Coupler	MVE	MVE-4816-10	A400024	N/A	Jun. 27, 2024	Nov. 29, 2024~ Mar. 15, 2025	Jun. 26, 2025	Conducted (TH03-HY)
Software 1	Sporton	FCC 5GNR_FSV30 44_20231106	N/A	Conducted Test Item	N/A	Nov. 29, 2024~ Mar. 15, 2025	N/A	Conducted (TH03-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))	6.6 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB

Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.7 dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.3 dB

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and ERP/EIRP

NR n48 Maximum Average Power [dBm] (GT - LC = -2.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	24.04	24.05	23.89	21.71	0.1483
10	1	22		24.05	24.09	23.85		
10	12	6		24.00	24.06	23.86		
10	1	0		23.53	23.60	23.46		
10	1	23		23.51	23.64	23.34		
10	24	0		23.48	23.63	23.38		
10	1	1	QPSK	23.99	24.10	23.94		
10	1	22		23.95	24.11	23.86		
10	12	6		24.00	24.08	23.86		
10	1	0		22.98	23.17	22.87		
10	1	23		22.95	23.15	22.80		
10	24	0		23.00	23.13	22.87		
10	1	1	16-QAM	22.98	23.08	22.72	20.68	0.1169
10	1	1	64-QAM	21.50	21.63	21.48		
10	1	1	256-QAM	17.50	17.66	17.55		
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 = -2.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	20.04	24.08	23.93	21.71	0.1483
15	1	36		24.00	24.07	19.85		
15	18	9		24.03	24.08	23.85		
15	1	0		20.01	23.58	23.47		
15	1	37		23.54	23.60	19.83		
15	36	0		19.99	23.58	19.90		
15	1	1	QPSK	20.12	24.09	23.95		
15	1	36		24.01	24.11	19.84		
15	18	9		24.01	24.10	23.87		
15	1	0		20.08	23.09	22.89		
15	1	37		23.06	23.13	19.90		
15	36	0		20.05	23.10	19.93		
15	1	1	16-QAM	19.07	23.09	22.75	20.69	0.1172
15	1	1	64-QAM	19.08	21.62	21.44		
15	1	1	256-QAM	17.49	17.57	17.51		
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 = -2.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	20.05	24.01	23.86	21.68	0.1472
20	1	49		23.99	24.08	19.74		
20	25	12		23.96	24.06	23.80		
20	1	0		20.02	23.54	23.45		
20	1	50		23.52	23.60	19.75		
20	50	0		20.00	23.54	19.85		
20	1	1	QPSK	20.08	24.04	23.89		
20	1	49		24.02	24.02	19.80		
20	25	12		23.99	23.98	23.80		
20	1	0		20.07	23.07	22.87		
20	1	50		23.04	23.09	19.80		
20	50	0		20.02	23.05	19.85		
20	1	1	16-QAM	19.20	22.97	22.70	20.57	0.1140
20	1	1	64-QAM	18.96	21.70	21.54		
20	1	1	256-QAM	17.47	17.50	17.47		
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 = -2.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	13.63	20.06	13.51	21.68	0.1472
30	1	76		13.63	20.09	13.42		
30	36	18		13.57	24.05	23.95		
30	1	0		13.60	20.04	13.49		
30	1	77		13.63	20.09	13.38		
30	75	0		13.56	20.08	13.50		
30	1	1	QPSK	13.65	19.99	13.48		
30	1	76		13.68	20.06	13.40		
30	36	18		13.56	24.08	23.94		
30	1	0		13.66	19.97	13.48		
30	1	77		13.65	20.07	13.37		
30	75	0		13.57	20.04	13.50		
30	1	1	16-QAM	13.21	19.97	12.87	17.59	0.0574
30	1	1	64-QAM	13.03	19.99	12.98		
30	1	1	256-QAM	13.06	17.51	12.97		
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 = -2.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	13.59	20.09	13.55	21.72	0.1486
40	1	104		13.63	20.15	13.39		
40	50	25		13.57	24.10	13.54		
40	1	0		13.56	20.06	13.52		
40	1	105		13.59	20.13	13.40		
40	100	0		13.56	19.65	13.52		
40	1	1	QPSK	13.62	20.05	13.56		
40	1	104		13.68	20.15	13.42		
40	50	25		13.57	24.12	13.54		
40	1	0		13.63	20.04	13.57		
40	1	105		13.68	20.15	13.43		
40	100	0		13.60	19.64	13.54		
40	1	1	16-QAM	13.08	20.00	13.18	17.72	0.0592
40	1	1	64-QAM	13.13	20.12	13.02		
40	1	1	256-QAM	13.07	17.61	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 = 0.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	19.83	19.94	20.00	20.83	0.1211
10	1	22		19.85	19.96	19.96		
10	12	6		19.79	19.95	19.98		
10	1	0		19.87	19.94	20.02		
10	1	23		19.85	19.98	19.99		
10	24	0		19.84	19.95	20.01		
10	1	1	QPSK	19.82	20.00	20.02		
10	1	22		19.80	20.00	19.96		
10	12	6		19.77	19.96	19.97		
10	1	0		19.86	19.97	20.03		
10	1	23		19.81	19.98	19.99		
10	24	0		19.79	19.95	19.97		
10	1	1	16-QAM	19.92	19.82	20.03	20.83	0.1211
10	1	1	64-QAM	19.92	19.98	20.02		
10	1	1	256-QAM	16.77	16.69	16.82		
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 = 0.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	19.02	19.88	20.01	20.82	0.1208
15	1	36		19.86	19.98	19.13		
15	18	9		19.83	19.95	19.90		
15	1	0		19.07	19.91	20.02		
15	1	37		19.87	19.93	19.10		
15	36	0		19.04	19.93	19.16		
15	1	1	QPSK	19.11	19.95	19.99		
15	1	36		19.88	19.98	19.11		
15	18	9		19.84	19.96	19.90		
15	1	0		19.09	19.97	19.99		
15	1	37		19.87	19.99	19.07		
15	36	0		19.04	19.95	19.12		
15	1	1	16-QAM	18.18	19.97	20.04	20.84	0.1213
15	1	1	64-QAM	18.04	20.02	19.94		
15	1	1	256-QAM	16.56	16.68	16.65		
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 = 0.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	19.08	20.24	20.30	21.1	0.1288
20	1	49		20.27	20.27	19.01		
20	25	12		20.24	19.89	19.89		
20	1	0		19.14	19.83	20.03		
20	1	50		19.92	19.86	19.02		
20	50	0		19.05	20.30	19.12		
20	1	1	QPSK	19.06	19.87	20.00		
20	1	49		19.84	19.93	19.03		
20	25	12		19.80	19.91	19.92		
20	1	0		19.14	19.87	19.98		
20	1	50		19.81	19.92	19.06		
20	50	0		18.99	19.92	19.12		
20	1	1	16-QAM	18.03	19.87	20.02	20.83	0.1211
20	1	1	64-QAM	18.07	20.02	20.03		
20	1	1	256-QAM	16.43	16.85	16.91		
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 = 0.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	12.60	19.09	12.82	21.18	0.1312
30	1	76		12.67	19.16	12.65		
30	36	18		12.56	19.94	20.38		
30	1	0		12.65	19.19	12.79		
30	1	77		12.64	19.14	12.68		
30	75	0		12.56	19.14	12.76		
30	1	1	QPSK	12.56	19.09	12.81		
30	1	76		12.62	19.16	12.71		
30	36	18		12.56	19.91	20.09		
30	1	0		12.64	19.09	12.85		
30	1	77		12.70	19.15	12.68		
30	75	0		12.57	19.15	12.76		
30	1	1	16-QAM	12.16	18.99	12.36	19.91	0.0979
30	1	1	64-QAM	12.12	19.11	12.34		
30	1	1	256-QAM	12.14	16.55	12.28		
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 = 0.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	12.68	19.08	12.75	21.05	0.1274
40	1	104		12.76	19.15	12.56		
40	50	25		12.66	20.25	12.71		
40	1	0		12.66	19.16	12.77		
40	1	105		12.72	19.16	12.58		
40	100	0		12.66	18.70	12.76		
40	1	1	QPSK	12.68	19.06	12.82		
40	1	104		12.76	19.12	12.67		
40	50	25		12.67	19.94	12.71		
40	1	0		12.65	19.08	12.80		
40	1	105		12.75	19.13	12.65		
40	100	0		12.66	18.65	12.72		
40	1	1	16-QAM	12.22	19.24	12.21	20.07	0.1016
40	1	1	64-QAM	12.27	19.27	12.15		
40	1	1	256-QAM	12.22	16.57	12.15		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part96 NR n48 Maximum Average Power [dBm], DG = -2.78 dBi														
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	19.56	19.66	19.41	19.24	19.26	19.27	22.41	22.47	22.35	19.72	0.0938
10	1	22		19.54	19.77	19.43	19.21	19.20	19.18	22.39	22.50	22.32		
10	12	6		19.52	19.65	19.39	19.32	19.28	19.32	22.43	22.48	22.37		
10	1	0		18.07	18.06	17.91	17.74	17.76	17.70	20.92	20.92	20.82		
10	1	23		18.12	18.22	17.94	17.80	17.62	17.77	20.97	20.94	20.87		
10	24	0		18.04	18.10	17.97	17.75	17.72	17.84	20.91	20.92	20.92		
10	1	1	16-QAM	19.04	19.22	19.04	18.99	18.72	18.79	22.03	21.99	21.93	19.25	0.0841
10	1	1	64-QAM	17.50	17.73	17.72	17.42	17.28	17.40	20.47	20.52	20.57		
10	1	1	256-QAM	12.51	12.77	12.40	12.15	12.25	12.31	15.34	15.53	15.37		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -2.78 dBi														
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)
15	1	1	QPSK	15.07	19.59	19.56	14.72	19.33	19.16	17.91	22.47	22.37	19.69	0.0931
15	1	36		19.56	19.48	14.85	19.22	19.13	14.78	22.40	22.32	17.83		
15	19	9		19.48	19.62	19.44	19.36	19.25	19.25	22.43	22.45	22.36		
15	1	0		15.08	18.12	18.01	14.75	17.76	17.71	17.93	20.95	20.87		
15	1	37		18.13	18.14	14.87	17.75	17.72	14.75	20.95	20.95	17.82		
15	38	0		15.08	18.16	15.08	14.78	17.78	14.79	17.94	20.98	17.95		
15	1	1	16-QAM	14.88	19.14	19.18	14.59	19.10	18.78	17.75	22.13	21.99	19.35	0.0861
15	1	1	64-QAM	14.80	17.59	17.61	15.05	17.44	17.35	17.94	20.53	20.49		
15	1	1	256-QAM	12.51	12.71	12.38	12.45	12.43	12.09	15.49	15.58	15.25		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -2.78 dBi														
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)
20	1	1	QPSK	14.91	19.52	19.46	14.81	19.21	19.22	17.87	22.38	22.35	19.65	0.0923
20	1	49		19.52	19.58	14.96	19.31	19.18	14.63	22.43	22.39	17.81		
20	25	12		19.48	19.58	19.52	19.36	19.23	19.25	22.43	22.42	22.40		
20	1	0		15.00	18.05	18.10	14.88	17.86	17.57	17.95	20.97	20.85		
20	1	50		17.92	18.08	14.84	17.75	17.69	14.64	20.85	20.90	17.75		
20	51	0		15.01	18.07	15.01	14.82	17.80	14.81	17.93	20.95	17.92		
20	1	1	16-QAM	15.03	19.15	19.05	14.74	18.68	18.84	17.90	21.93	21.96	19.18	0.0828
20	1	1	64-QAM	15.06	17.37	17.38	14.79	17.60	17.13	17.94	20.50	20.27		
20	1	1	256-QAM	12.80	12.56	12.57	12.52	12.31	12.14	15.67	15.45	15.37		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -2.78 dBi														
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)
30	1	1	QPSK	9.60	17.02	9.47	9.23	16.91	9.30	12.43	19.98	12.40	19.65	0.0923
30	1	76		9.49	16.99	9.29	9.11	16.77	9.40	12.31	19.89	12.36		
30	39	19		9.56	19.51	9.53	9.26	19.33	9.32	12.42	22.43	12.44		
30	1	0		9.61	16.78	9.44	9.23	16.77	9.25	12.43	19.79	12.36		
30	1	77		9.54	16.98	9.35	9.06	16.76	9.27	12.32	19.88	12.32		
30	78	0		9.56	17.02	9.48	9.22	16.81	9.36	12.40	19.93	12.43		
30	1	1	16-QAM	9.63	16.93	9.63	9.21	16.72	9.17	12.44	19.84	12.42	17.22	0.0527
30	1	1	64-QAM	9.87	17.10	9.69	9.36	16.88	9.27	12.63	20.00	12.50		
30	1	1	256-QAM	9.62	12.46	9.73	9.36	12.32	9.57	12.50	15.40	12.66		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -2.78 dBi														
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)
40	1	1	QPSK	9.61	17.05	9.53	9.15	16.75	9.10	12.40	19.91	12.33	19.64	0.0920
40	1	104		9.66	17.06	9.38	9.06	16.63	9.23	12.38	19.86	12.32		
40	53	26		9.59	19.56	9.49	9.24	19.26	9.21	12.43	22.42	12.36		
40	1	0		9.54	17.01	9.60	9.25	16.70	9.05	12.41	19.87	12.34		
40	1	105		9.58	17.02	9.31	9.14	16.53	9.22	12.38	19.79	12.28		
40	106	0		9.58	16.61	9.54	9.25	16.31	9.22	12.43	19.47	12.39		
40	1	1	16-QAM	9.36	17.00	9.72	9.33	16.85	9.09	12.36	19.94	12.43	17.19	0.0524
40	1	1	64-QAM	9.70	17.05	9.66	9.41	16.87	9.09	12.57	19.97	12.39		
40	1	1	256-QAM	9.40	12.63	9.63	9.37	12.43	9.41	12.40	15.54	12.53		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -1.04 dBi														
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	19.56	19.66	19.41	19.24	19.26	19.27	22.41	22.47	22.35	21.46	0.1400
10	1	22		19.54	19.77	19.43	19.21	19.20	19.18	22.39	22.50	22.32		
10	12	6		19.52	19.65	19.39	19.32	19.28	19.32	22.43	22.48	22.37		
10	1	0		18.07	18.06	17.91	17.74	17.76	17.70	20.92	20.92	20.82		
10	1	23		18.12	18.22	17.94	17.80	17.62	17.77	20.97	20.94	20.87		
10	24	0		18.04	18.10	17.97	17.75	17.72	17.84	20.91	20.92	20.92		
10	1	1	16-QAM	19.04	19.22	19.04	18.99	18.72	18.79	22.03	21.99	21.93	20.99	0.1256
10	1	1	64-QAM	17.50	17.73	17.72	17.42	17.28	17.40	20.47	20.52	20.57		
10	1	1	256-QAM	12.51	12.77	12.40	12.15	12.25	12.31	15.34	15.53	15.37		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -1.04 dBi														
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)
15	1	1	QPSK	15.07	19.59	19.56	14.72	19.33	19.16	17.91	22.47	22.37	21.43	0.1390
15	1	36		19.56	19.48	14.85	19.22	19.13	14.78	22.40	22.32	17.83		
15	19	9		19.48	19.62	19.44	19.36	19.25	19.25	22.43	22.45	22.36		
15	1	0		15.08	18.12	18.01	14.75	17.76	17.71	17.93	20.95	20.87		
15	1	37		18.13	18.14	14.87	17.75	17.72	14.75	20.95	20.95	17.82		
15	38	0		15.08	18.16	15.08	14.78	17.78	14.79	17.94	20.98	17.95		
15	1	1	16-QAM	14.88	19.14	19.18	14.59	19.10	18.78	17.75	22.13	21.99	21.09	0.1285
15	1	1	64-QAM	14.80	17.59	17.61	15.05	17.44	17.35	17.94	20.53	20.49		
15	1	1	256-QAM	12.51	12.71	12.38	12.45	12.43	12.09	15.49	15.58	15.25		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -1.04 dBi														
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)
20	1	1	QPSK	14.91	19.52	19.46	14.81	19.21	19.22	17.87	22.38	22.35	21.39	0.1377
20	1	49		19.52	19.58	14.96	19.31	19.18	14.63	22.43	22.39	17.81		
20	25	12		19.48	19.58	19.52	19.36	19.23	19.25	22.43	22.42	22.40		
20	1	0		15.00	18.05	18.10	14.88	17.86	17.57	17.95	20.97	20.85		
20	1	50		17.92	18.08	14.84	17.75	17.69	14.64	20.85	20.90	17.75		
20	51	0		15.01	18.07	15.01	14.82	17.80	14.81	17.93	20.95	17.92		
20	1	1	16-QAM	15.03	19.15	19.05	14.74	18.68	18.84	17.90	21.93	21.96	20.92	0.1236
20	1	1	64-QAM	15.06	17.37	17.38	14.79	17.60	17.13	17.94	20.50	20.27		
20	1	1	256-QAM	12.80	12.56	12.57	12.52	12.31	12.14	15.67	15.45	15.37		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -1.04 dBi														
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)
30	1	1	QPSK	9.60	17.02	9.47	9.23	16.91	9.30	12.43	19.98	12.40	21.39	0.1377
30	1	76		9.49	16.99	9.29	9.11	16.77	9.40	12.31	19.89	12.36		
30	39	19		9.56	19.51	9.53	9.26	19.33	9.32	12.42	22.43	12.44		
30	1	0		9.61	16.78	9.44	9.23	16.77	9.25	12.43	19.79	12.36		
30	1	77		9.54	16.98	9.35	9.06	16.76	9.27	12.32	19.88	12.32		
30	78	0		9.56	17.02	9.48	9.22	16.81	9.36	12.40	19.93	12.43		
30	1	1	16-QAM	9.63	16.93	9.63	9.21	16.72	9.17	12.44	19.84	12.42	18.96	0.0787
30	1	1	64-QAM	9.87	17.10	9.69	9.36	16.88	9.27	12.63	20.00	12.50		
30	1	1	256-QAM	9.62	12.46	9.73	9.36	12.32	9.57	12.50	15.40	12.66		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -1.04 dBi														
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)
40	1	1	QPSK	9.61	17.05	9.53	9.15	16.75	9.10	12.40	19.91	12.33	21.38	0.1374
40	1	104		9.66	17.06	9.38	9.06	16.63	9.23	12.38	19.86	12.32		
40	53	26		9.59	19.56	9.49	9.24	19.26	9.21	12.43	22.42	12.36		
40	1	0		9.54	17.01	9.60	9.25	16.70	9.05	12.41	19.87	12.34		
40	1	105		9.58	17.02	9.31	9.14	16.53	9.22	12.38	19.79	12.28		
40	106	0		9.58	16.61	9.54	9.25	16.31	9.22	12.43	19.47	12.39		
40	1	1	16-QAM	9.36	17.00	9.72	9.33	16.85	9.09	12.36	19.94	12.43	18.93	0.0782
40	1	1	64-QAM	9.70	17.05	9.66	9.41	16.87	9.09	12.57	19.97	12.39		
40	1	1	256-QAM	9.40	12.63	9.63	9.37	12.43	9.41	12.40	15.54	12.53		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -3.25 dBi														
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	19.62	19.70	19.54	18.63	18.74	18.64	22.16	22.26	22.12	19.01	0.0796
10	1	22		19.64	19.70	19.44	18.71	18.74	18.56	22.21	22.26	22.03		
10	12	6		19.61	19.63	19.41	18.71	18.84	18.72	22.19	22.26	22.09		
10	1	0		18.05	18.18	18.06	17.07	17.19	17.29	20.60	20.72	20.70		
10	1	23		18.10	18.20	17.93	17.09	17.21	17.15	20.63	20.74	20.57		
10	24	0		18.08	18.17	17.88	17.25	17.30	17.25	20.70	20.77	20.59		
10	1	1	16-QAM	19.10	18.77	19.08	18.08	18.28	18.32	21.63	21.54	21.73	18.48	0.0705
10	1	1	64-QAM	17.70	17.89	17.47	16.85	16.89	16.86	20.31	20.43	20.19		
10	1	1	256-QAM	12.69	12.55	12.82	11.38	11.89	11.83	15.09	15.24	15.36		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -3.25 dBi														
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)
15	1	1	QPSK	15.18	19.62	19.61	14.15	18.82	18.68	17.71	22.25	22.18	19.05	0.0804
15	1	36		19.59	19.74	14.94	18.73	18.76	14.01	22.19	22.29	17.51		
15	19	9		19.64	19.72	19.54	18.78	18.82	18.66	22.24	22.30	22.13		
15	1	0		15.18	18.10	18.06	14.19	17.25	17.20	17.72	20.71	20.66		
15	1	37		18.10	18.24	14.92	17.28	17.25	14.01	20.72	20.78	17.50		
15	38	0		15.12	18.19	14.96	14.20	17.28	14.14	17.69	20.77	17.58		
15	1	1	16-QAM	15.19	19.31	19.19	14.13	18.27	18.30	17.70	21.83	21.78	18.58	0.0721
15	1	1	64-QAM	15.31	17.72	17.61	14.32	16.91	16.90	17.85	20.34	20.28		
15	1	1	256-QAM	12.58	12.81	12.70	11.63	11.73	11.55	15.14	15.31	15.17		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -3.25 dBi														
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)
20	1	1	QPSK	15.18	19.59	19.55	14.17	18.64	18.65	17.71	22.15	22.13	19.01	0.0796
20	1	49		19.64	19.68	15.00	18.81	18.68	14.06	22.26	22.22	17.57		
20	25	12		19.62	19.64	19.56	18.82	18.83	18.69	22.25	22.26	22.16		
20	1	0		15.15	18.12	18.04	14.16	17.26	17.16	17.69	20.72	20.63		
20	1	50		18.21	18.15	15.02	17.35	17.25	13.95	20.81	20.73	17.53		
20	51	0		15.22	18.20	15.05	14.38	17.31	14.21	17.83	20.79	17.66		
20	1	1	16-QAM	15.14	19.24	19.20	14.22	18.17	18.11	17.71	21.75	21.70	18.5	0.0708
20	1	1	64-QAM	15.27	17.71	17.54	14.33	16.77	16.68	17.84	20.28	20.14		
20	1	1	256-QAM	12.96	12.74	12.48	12.09	11.78	11.48	15.56	15.30	15.02		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -3.25 dBi														
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)
30	1	1	QPSK	9.62	17.11	9.57	8.67	16.11	8.49	12.18	19.65	12.07	19.02	0.0798
30	1	76		9.52	17.16	9.50	8.65	16.08	8.61	12.12	19.66	12.09		
30	39	19		9.65	19.70	9.61	8.73	18.78	8.74	12.22	22.27	12.21		
30	1	0		9.66	17.15	9.59	8.73	16.04	8.53	12.23	19.64	12.10		
30	1	77		9.53	17.17	9.47	8.65	16.13	8.57	12.12	19.69	12.05		
30	78	0		9.63	17.11	9.58	8.70	16.20	8.73	12.20	19.69	12.19		
30	1	1	16-QAM	9.73	17.24	9.60	8.80	16.06	8.52	12.30	19.70	12.10	16.48	0.0445
30	1	1	64-QAM	9.71	17.25	9.77	8.73	16.12	8.95	12.26	19.73	12.39		
30	1	1	256-QAM	9.66	12.45	9.70	8.66	11.84	8.77	12.20	15.17	12.27		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -3.25 dBi														
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)
40	1	1	QPSK	9.67	17.26	9.68	8.63	16.00	8.33	12.19	19.69	12.07	19.03	0.0800
40	1	104		9.66	17.14	9.47	8.61	16.09	8.57	12.18	19.66	12.05		
40	53	26		9.61	19.72	9.60	8.83	18.76	8.55	12.25	22.28	12.12		
40	1	0		9.59	17.17	9.62	8.67	16.07	8.32	12.16	19.67	12.03		
40	1	105		9.71	17.11	9.49	8.51	16.05	8.48	12.16	19.62	12.02		
40	106	0		9.61	16.68	9.58	8.72	15.69	8.53	12.20	19.22	12.10		
40	1	1	16-QAM	9.74	17.24	9.29	8.51	16.14	8.32	12.18	19.74	11.84	16.55	0.0452
40	1	1	64-QAM	9.49	17.16	9.73	8.84	16.39	8.44	12.19	19.80	12.14		
40	1	1	256-QAM	9.73	12.87	9.74	8.54	11.60	8.33	12.19	15.29	12.10		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -0.75 dBi														
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	17.03	17.05	17.01	17.59	17.61	17.63	20.33	20.35	20.34	19.62	0.0916
10	1	22		16.94	17.15	16.83	17.58	17.47	17.63	20.28	20.32	20.26		
10	12	6		17.00	17.08	16.88	17.68	17.61	17.70	20.36	20.36	20.32		
10	1	0		17.02	17.02	17.01	17.57	17.56	17.68	20.31	20.31	20.37		
10	1	23		16.96	17.03	16.86	17.67	17.63	17.66	20.34	20.35	20.29		
10	24	0		16.99	16.99	16.86	17.64	17.60	17.68	20.34	20.32	20.30		
10	1	1	16-QAM	17.11	17.04	17.09	17.63	17.58	17.90	20.39	20.33	20.52	19.77	0.0948
10	1	1	64-QAM	16.89	16.68	16.77	17.33	17.45	17.31	20.13	20.09	20.06		
10	1	1	256-QAM	11.73	11.71	11.81	11.93	12.28	12.53	14.84	15.01	15.20		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -0.75 dBi														
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)
15	1	1	QPSK	14.23	16.99	17.02	14.74	17.60	17.53	17.50	20.32	20.29	19.64	0.0920
15	1	36		17.06	17.11	14.06	17.57	17.47	14.77	20.33	20.30	17.44		
15	19	9		17.07	17.09	16.95	17.66	17.61	17.60	20.39	20.37	20.30		
15	1	0		14.23	17.05	16.98	14.79	17.63	17.54	17.53	20.36	20.28		
15	1	37		16.99	17.20	14.05	17.59	17.49	14.76	20.31	20.36	17.43		
15	38	0		14.21	17.15	14.13	14.81	17.59	14.83	17.53	20.39	17.50		
15	1	1	16-QAM	14.35	17.18	16.93	14.52	17.72	17.56	17.45	20.47	20.27	19.72	0.0938
15	1	1	64-QAM	14.08	16.77	16.86	14.97	17.28	17.36	17.56	20.04	20.13		
15	1	1	256-QAM	11.95	11.62	11.85	12.39	12.23	12.37	15.19	14.95	15.13		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -0.75 dBi														
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)
20	1	1	QPSK	14.28	17.00	17.05	14.82	17.67	17.45	17.57	20.36	20.26	19.65	0.0923
20	1	49		17.10	17.09	13.99	17.61	17.43	14.65	20.37	20.27	17.34		
20	25	12		17.04	17.13	16.97	17.67	17.59	17.55	20.38	20.38	20.28		
20	1	0		14.28	17.03	17.02	14.82	17.70	17.48	17.57	20.39	20.27		
20	1	50		17.12	17.06	14.07	17.62	17.53	14.66	20.39	20.31	17.39		
20	51	0		14.25	17.10	14.15	14.81	17.67	14.77	17.55	20.40	17.48		
20	1	1	16-QAM	14.36	17.05	17.21	14.77	17.57	17.51	17.58	20.33	20.37	19.62	0.0916
20	1	1	64-QAM	14.41	16.61	16.86	14.85	17.26	17.53	17.65	19.96	20.22		
20	1	1	256-QAM	12.02	11.80	11.97	12.24	12.31	12.38	15.14	15.07	15.19		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -0.75 dBi														
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)
30	1	1	QPSK	8.76	16.22	8.75	9.24	16.77	9.30	12.02	19.51	12.04	19.62	0.0916
30	1	76		8.63	16.21	8.54	9.06	16.69	9.27	11.86	19.47	11.93		
30	39	19		8.73	17.10	8.71	9.23	17.61	9.34	12.00	20.37	12.05		
30	1	0		8.69	16.26	8.69	9.31	16.80	9.27	12.02	19.55	12.00		
30	1	77		8.67	16.32	8.63	9.04	16.69	9.38	11.87	19.52	12.03		
30	78	0		8.75	16.36	8.67	9.18	16.83	9.33	11.98	19.61	12.02		
30	1	1	16-QAM	8.76	16.48	8.85	9.22	16.70	9.04	12.01	19.60	11.96	18.89	0.0774
30	1	1	64-QAM	8.84	16.32	8.62	9.37	16.91	8.98	12.12	19.64	11.81		
30	1	1	256-QAM	8.86	11.70	8.68	9.40	12.46	9.39	12.15	15.11	12.06		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

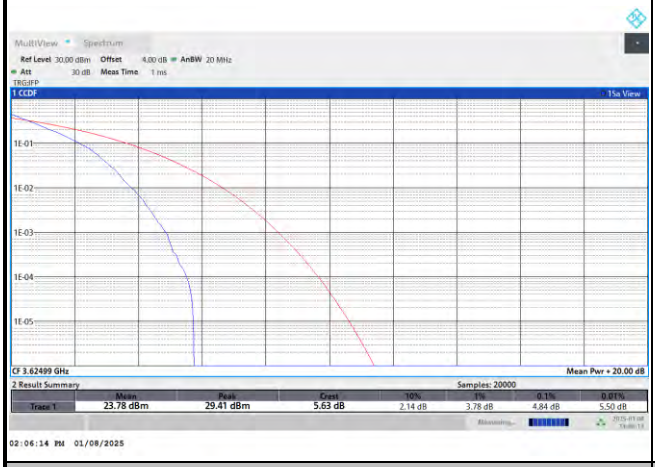
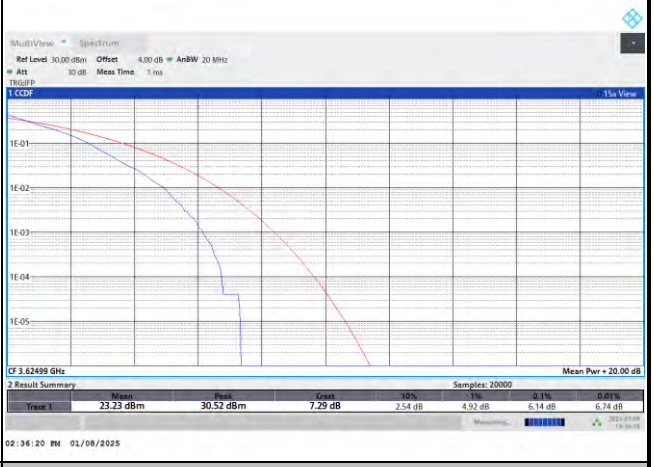
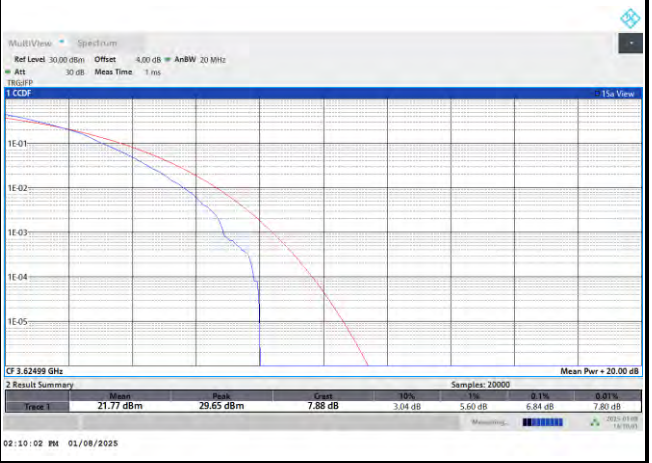
Part96 NR n48 Maximum Average Power [dBm], DG = -0.75 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	8.76	16.16	8.63	9.26	16.78	9.17	12.03	19.49	11.92	19.62	0.0916
40	1	104		8.84	16.23	8.43	9.04	16.66	9.18	11.95	19.46	11.83		
40	53	26		8.78	17.10	8.67	9.26	17.61	9.22	12.04	20.37	11.96		
40	1	0		8.70	16.27	8.58	9.30	16.83	9.10	12.02	19.57	11.86		
40	1	105		8.83	16.31	8.46	9.15	16.73	9.18	12.00	19.54	11.85		
40	106	0		8.81	15.83	8.68	9.27	16.33	9.24	12.06	19.10	11.98		
40	1	1	16-QAM	8.80	16.20	8.89	9.37	16.68	9.23	12.10	19.46	12.07	18.82	0.0762
40	1	1	64-QAM	8.80	16.16	8.90	9.40	16.93	9.20	12.12	19.57	12.06		
40	1	1	256-QAM	8.78	11.74	8.77	9.49	12.42	8.99	12.16	15.10	11.89		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

FR1 n48

<SISO Mode>

Peak-to-Average Ratio

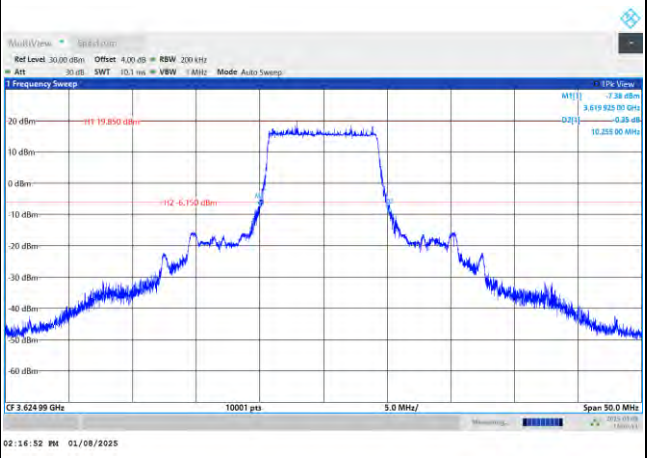
Mode	FR1 n48 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.84	6.14	6.80	6.84	PASS
Mode	FR1 n48 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.82				PASS

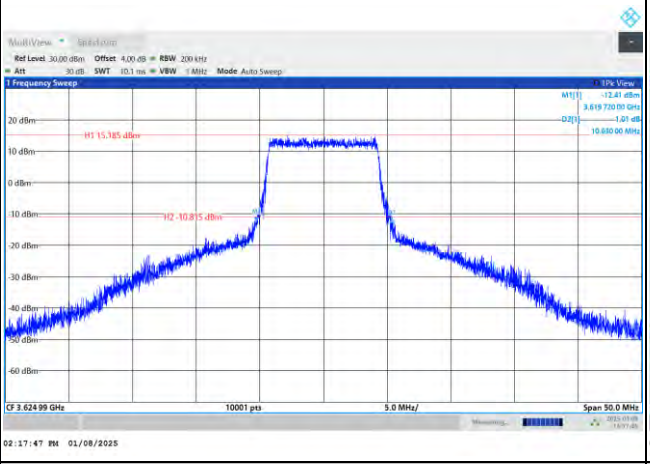
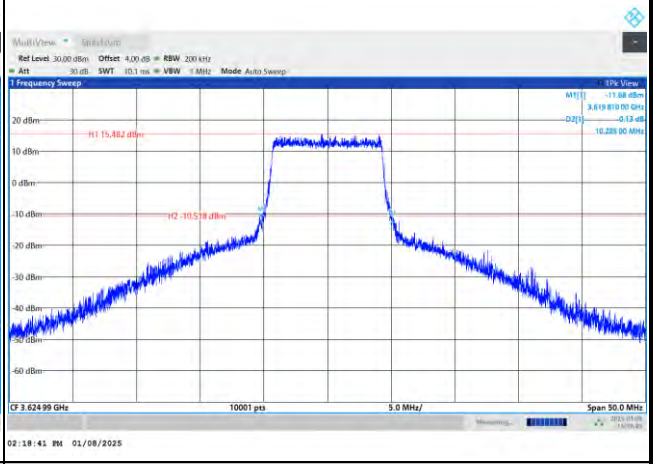
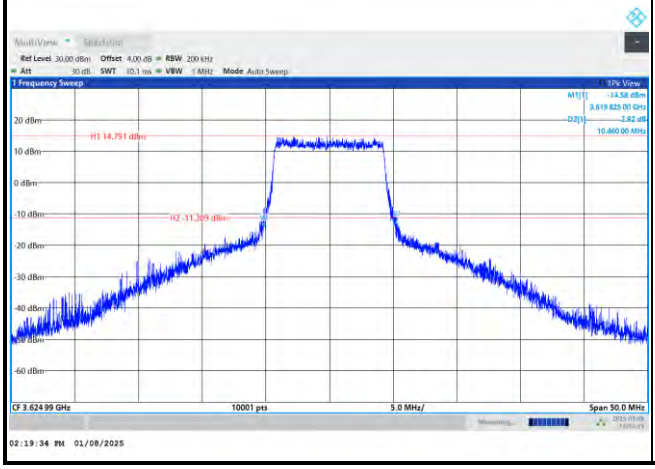
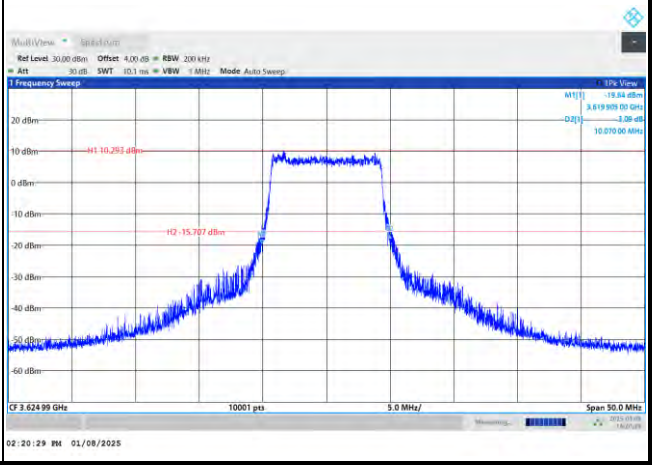
FR1 n48 / 20MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	QPSK
	
16QAM	64QAM
	
256QAM	

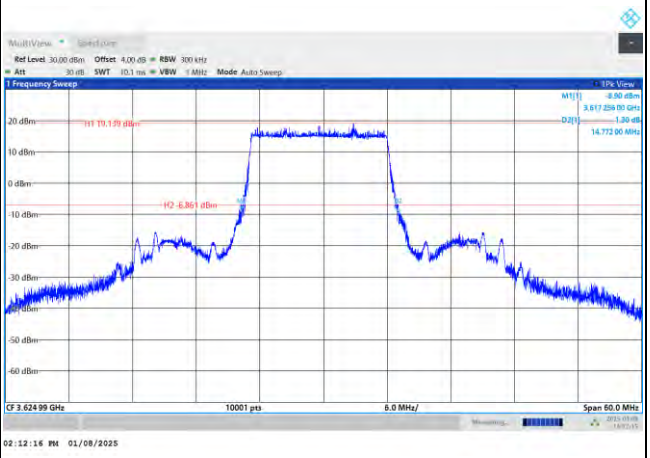
26dB Bandwidth

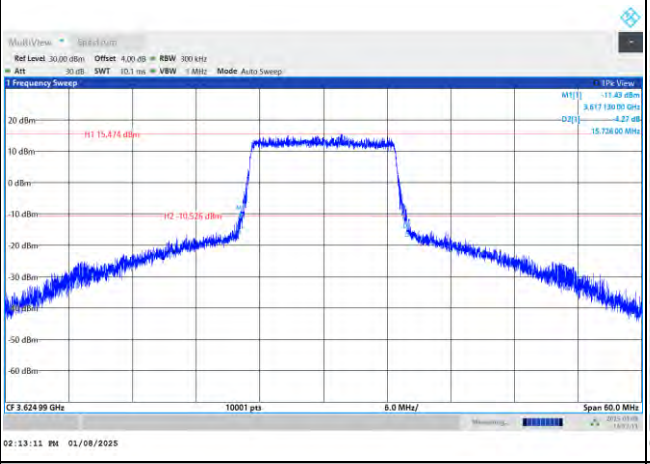
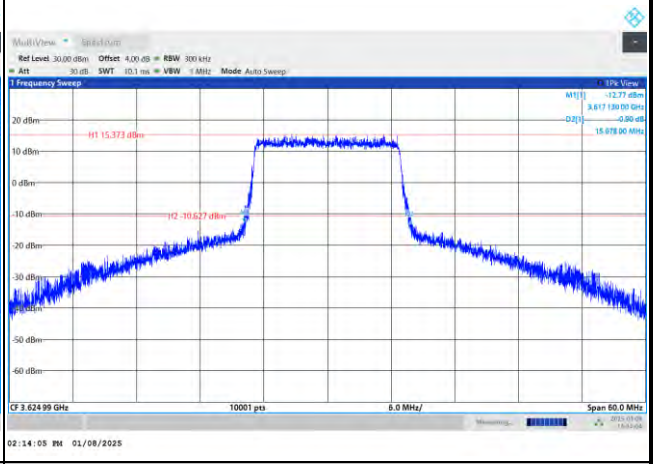
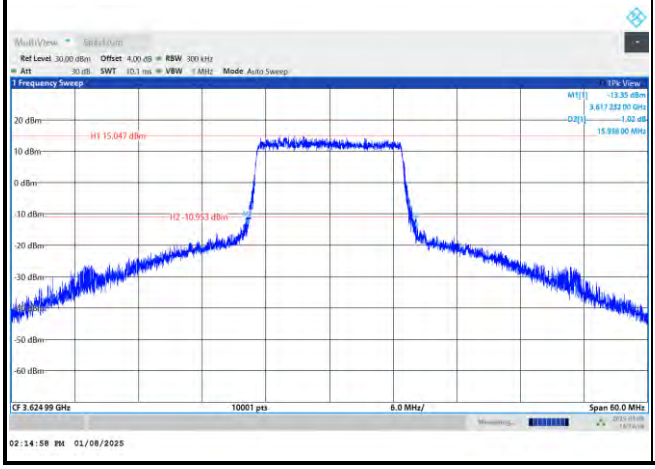
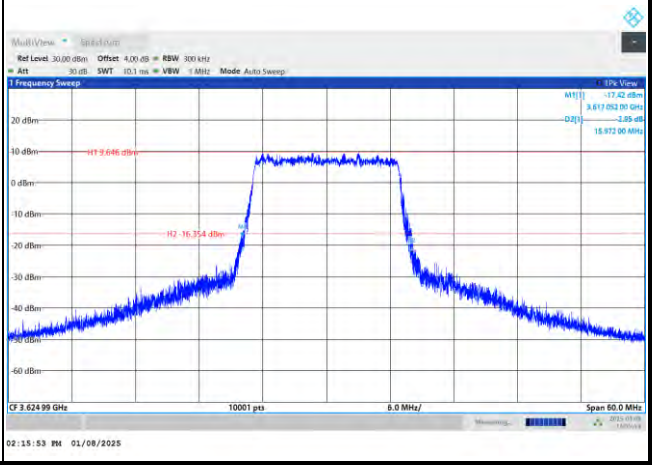
Mode	FR1 n48 : 26dB BW(MHz) / DFT-S OFDM							
BW	10MHz	15MHz	20MHz	30MHz	40MHz			
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK			
Middle CH	10.25	14.77	20.19	29.83	39.02			

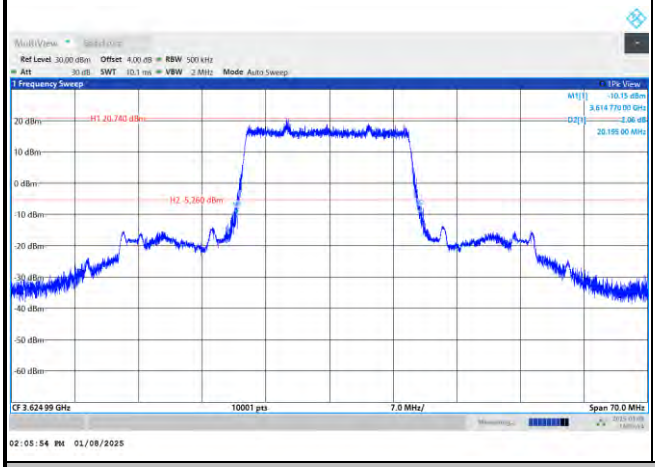
Mode	FR1 n48 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	10.63	10.28	15.72	15.67	20.81	20.55	31.10	30.78
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	10.46	10.07	15.93	15.97	20.80	20.71	31.18	31.05
BW	40MHz							
Mod.	QPSK	16QAM						
Middle CH	42.47	42.41						
Mod.	64QAM	256QAM						
Middle CH	42.38	43.25						

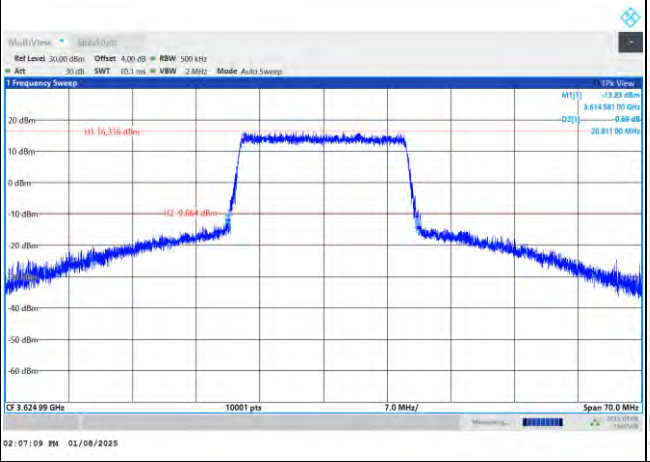
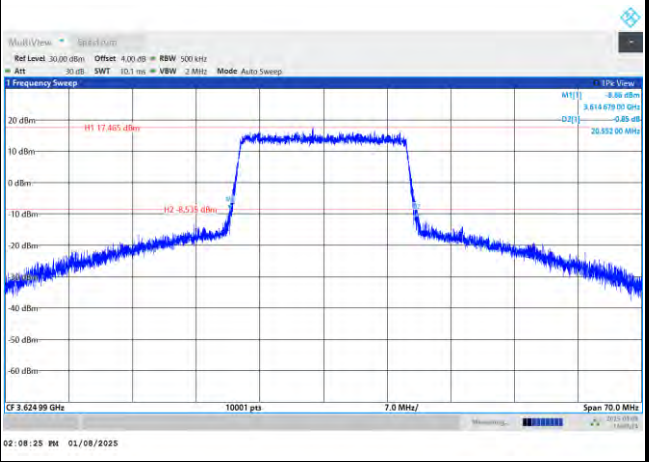
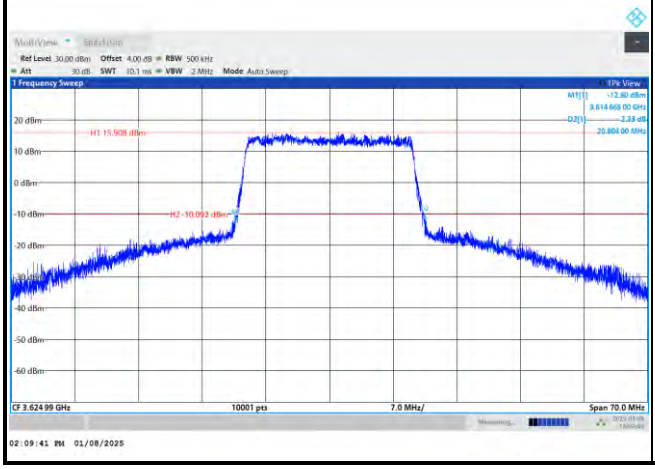
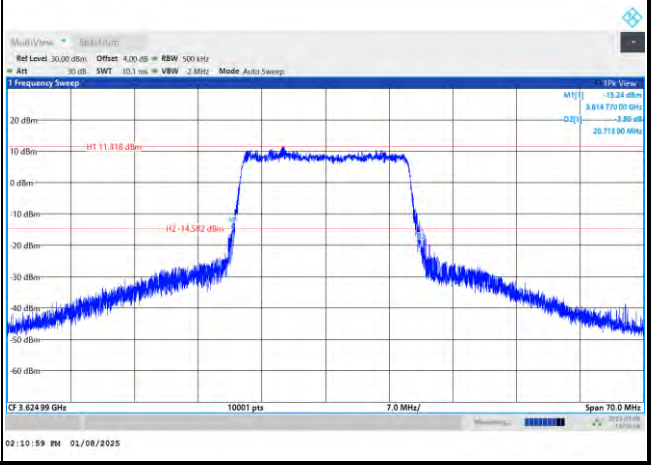
FR1 n48 / 10MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

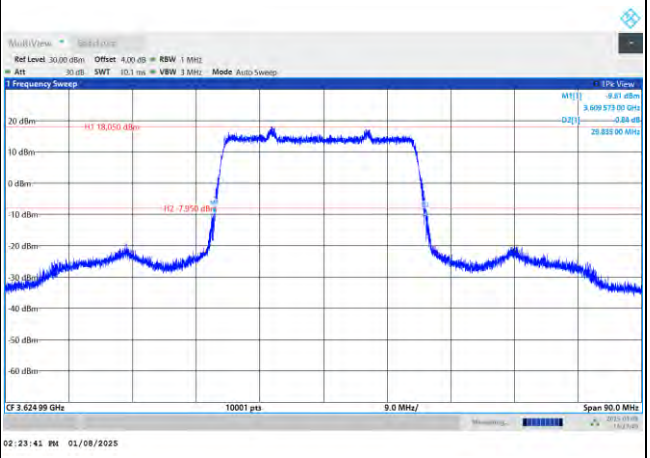
FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

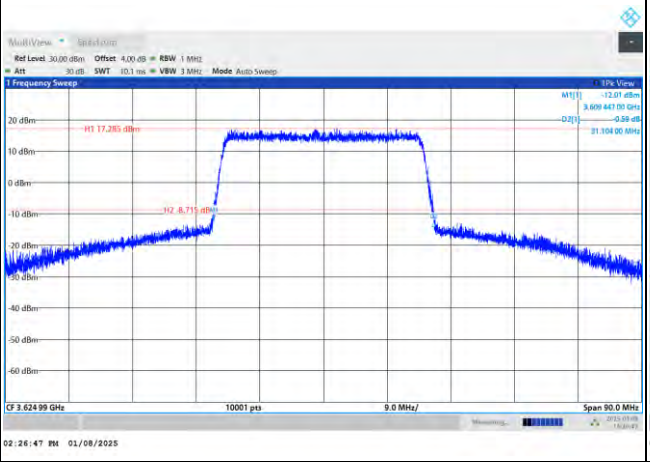
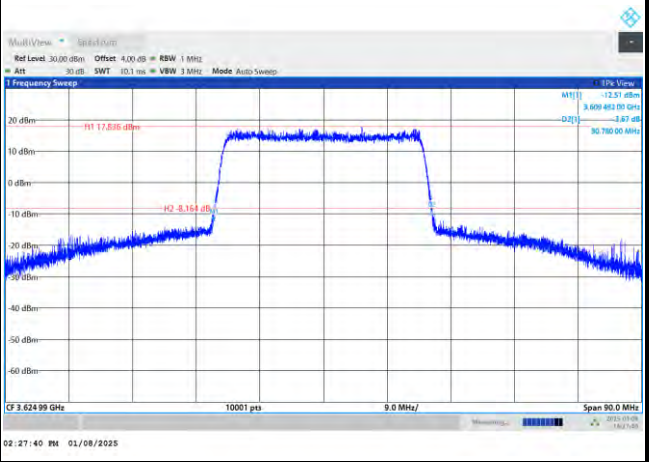
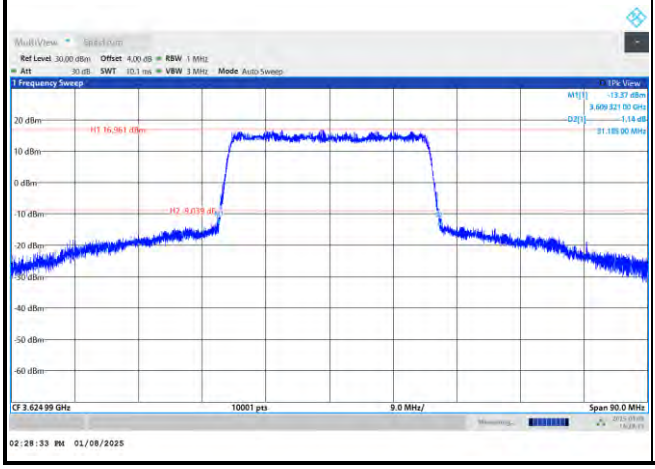
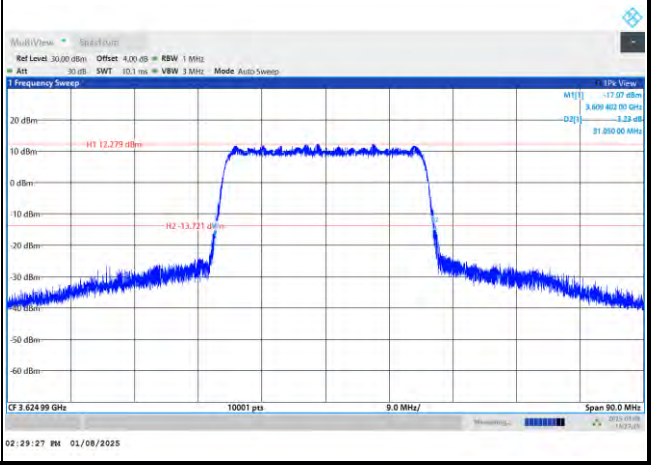
FR1 n48 / 15MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

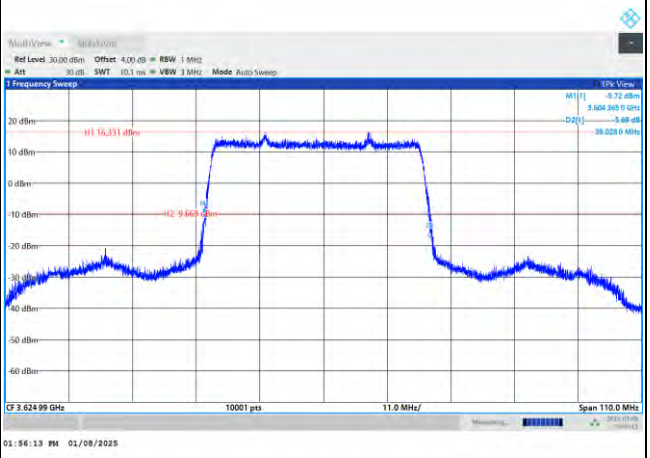
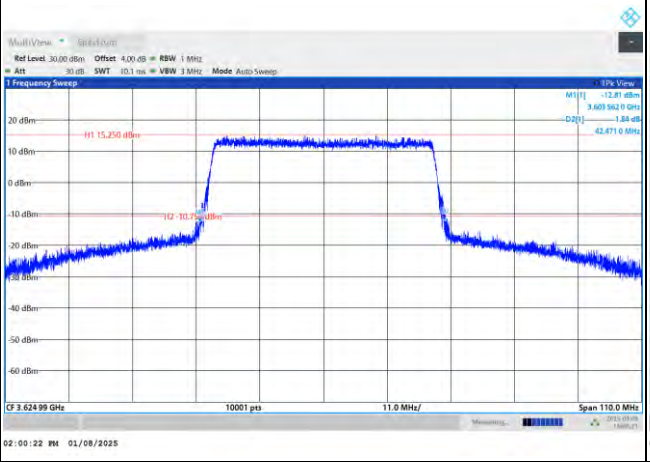
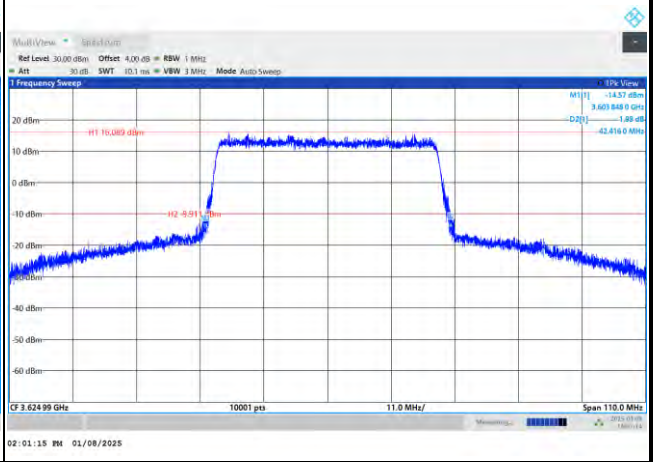
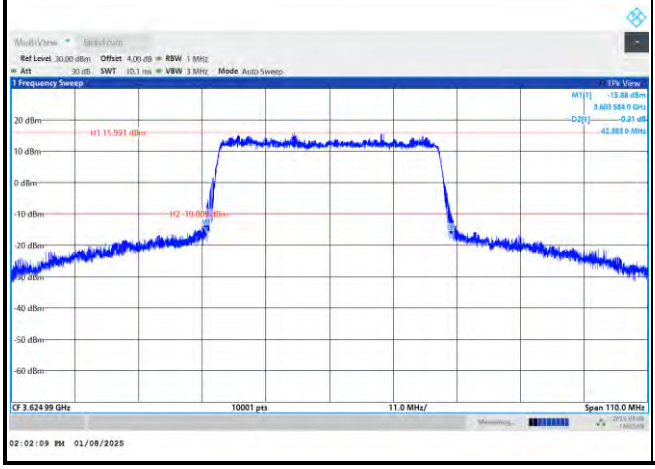
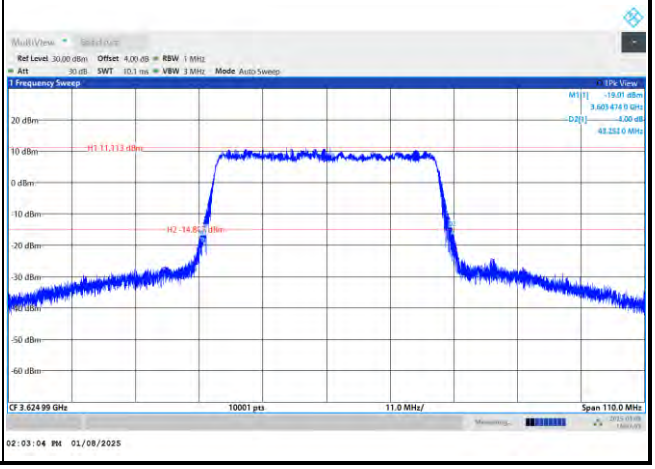
FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n48 / 20MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n48 / 30MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n48 / 40MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	
FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

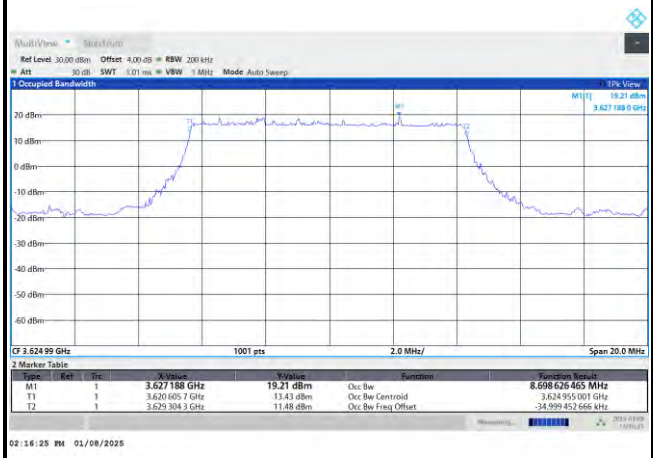
Occupied Bandwidth

Mode	FR1 n48 : OB BW(MHz) / DFT-S OFDM							
BW	10MHz	15MHz	20MHz	30MHz	40MHz			
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK			
Middle CH	8.69	12.97	18.15	27.27	36.04			

Mode	FR1 n48 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.74	8.68	13.70	13.67	18.41	18.45	28.28	28.24
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.66	8.68	13.76	13.82	18.43	18.39	28.31	28.19
BW	40MHz							
Mod.	QPSK	16QAM						
Middle CH	38.13	38.19						
Mod.	64QAM	256QAM						
Middle CH	38.21	38.41						

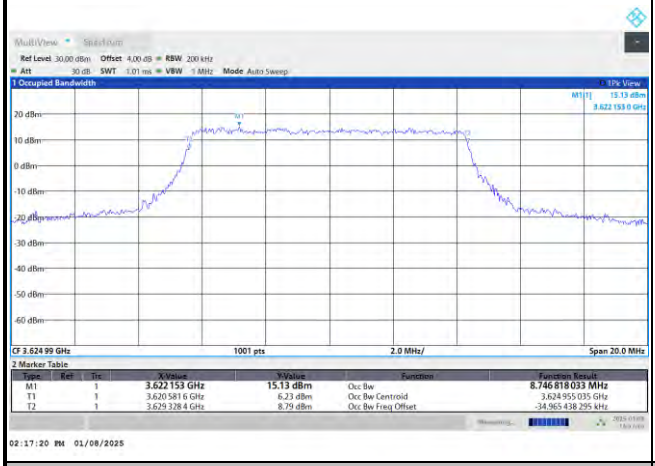
FR1 n48 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

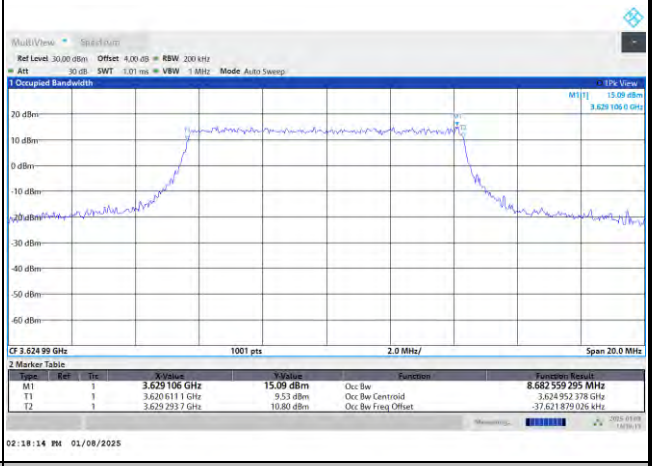


FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

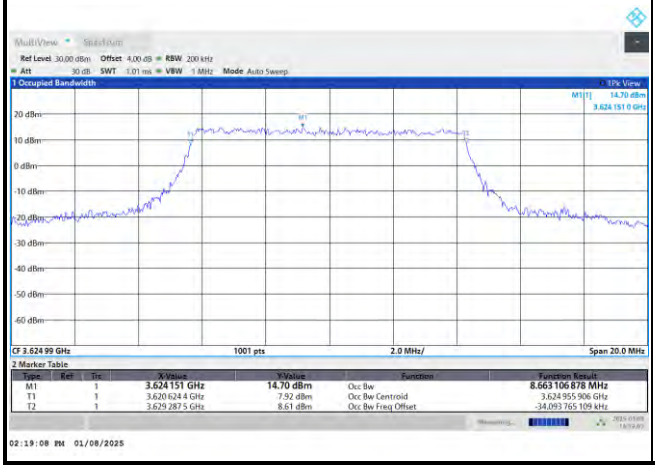
QPSK



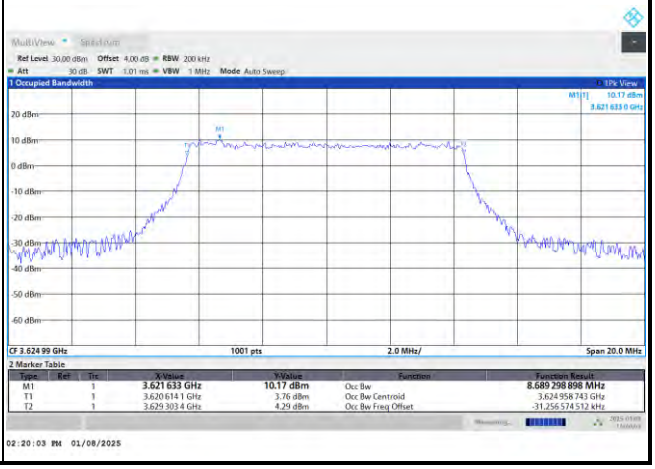
16QAM



64QAM

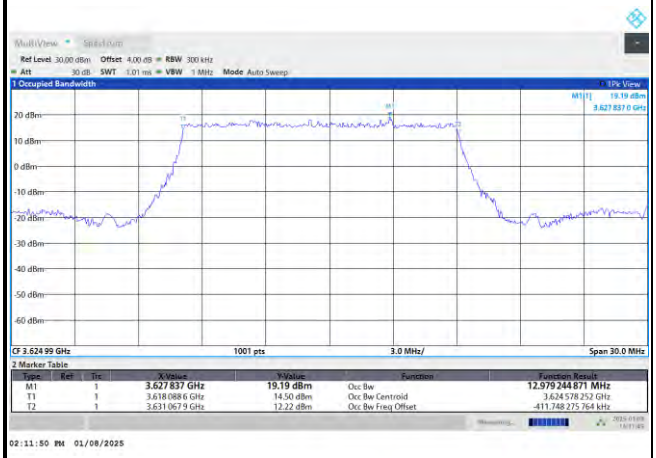


256QAM



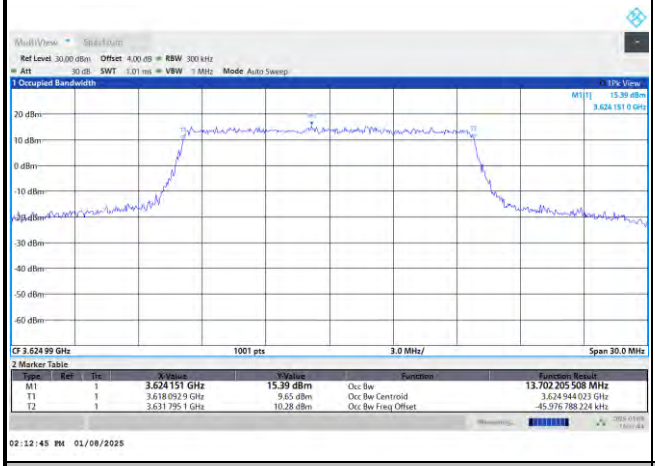
FR1 n48 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

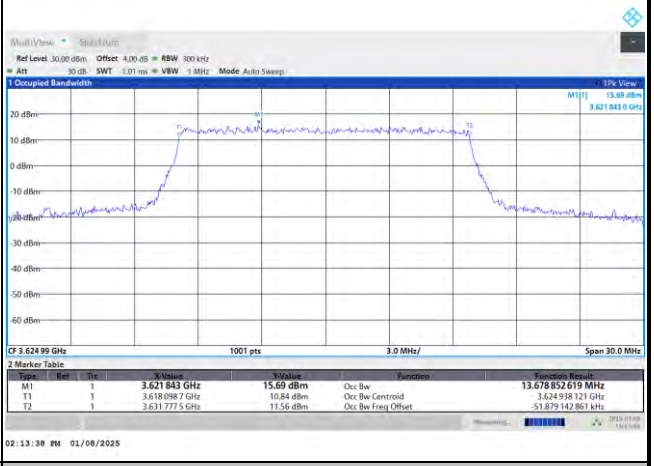


FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

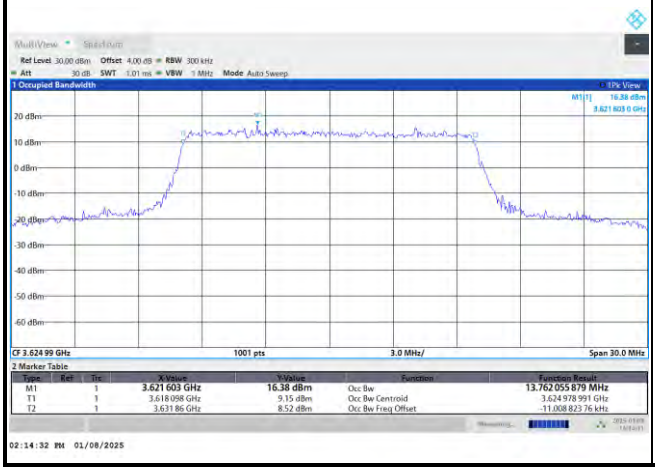
QPSK



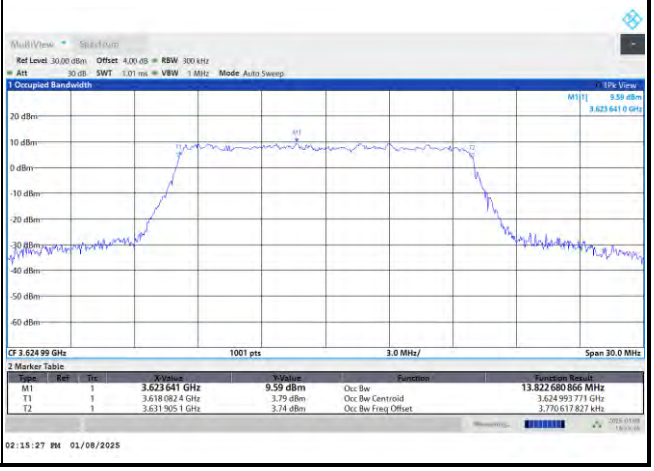
16QAM



64QAM



256QAM



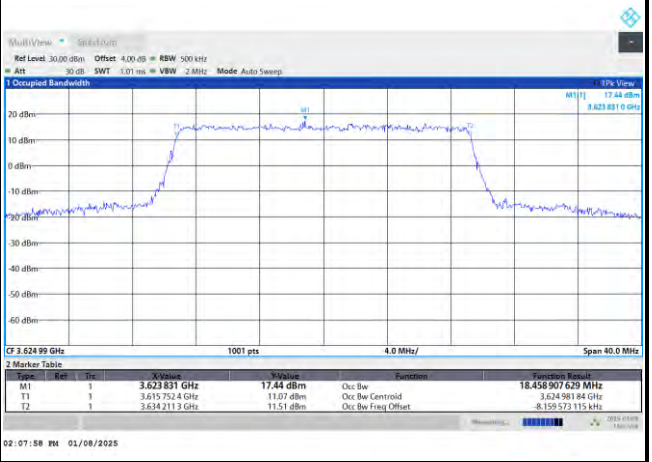
FR1 n48 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

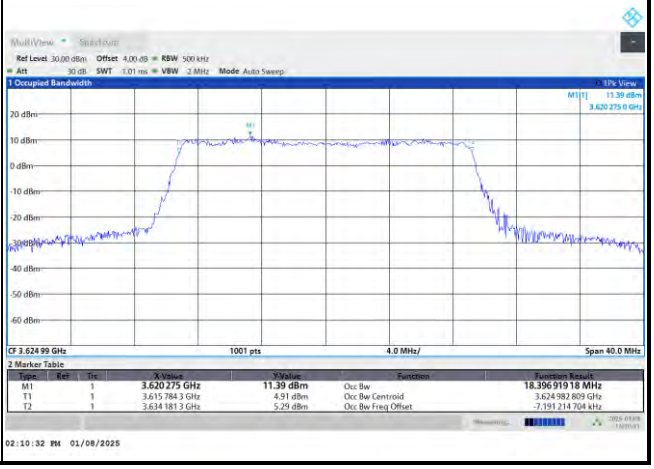
QPSK

16QAM



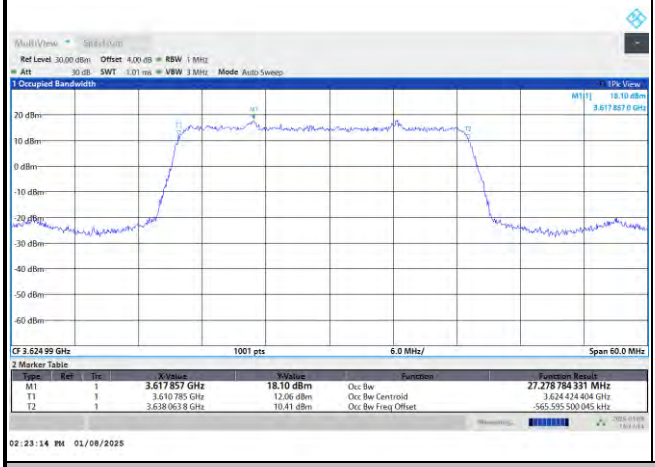
64QAM

256QAM



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

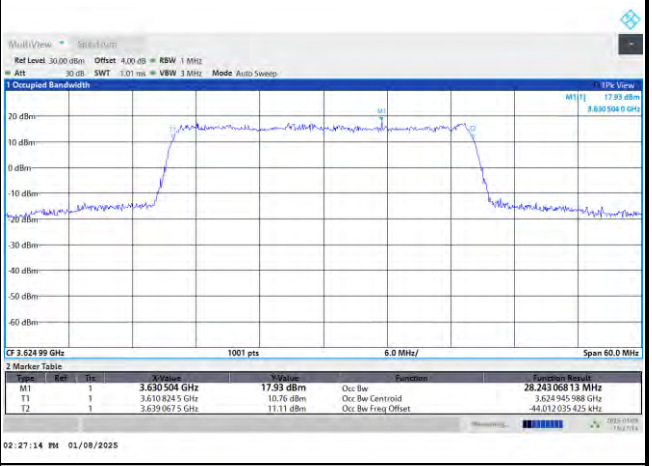
PI/2 BPSK



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

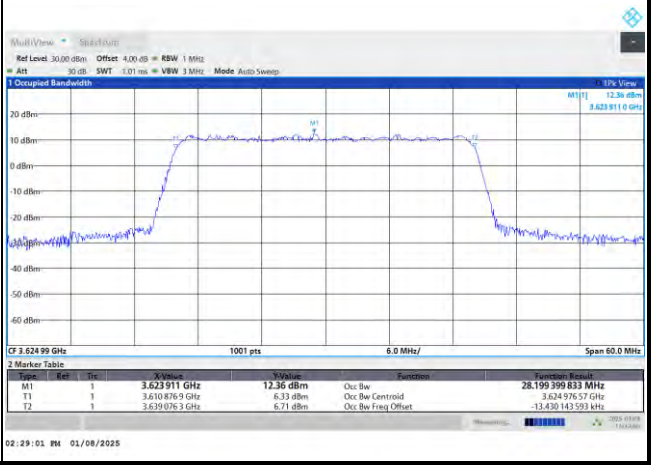
QPSK

16QAM



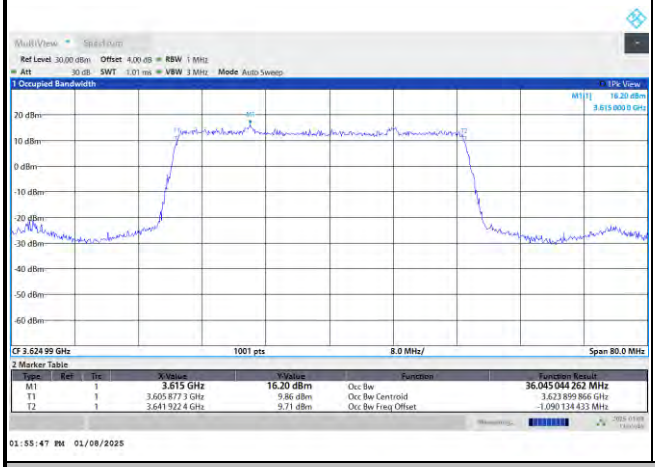
64QAM

256QAM



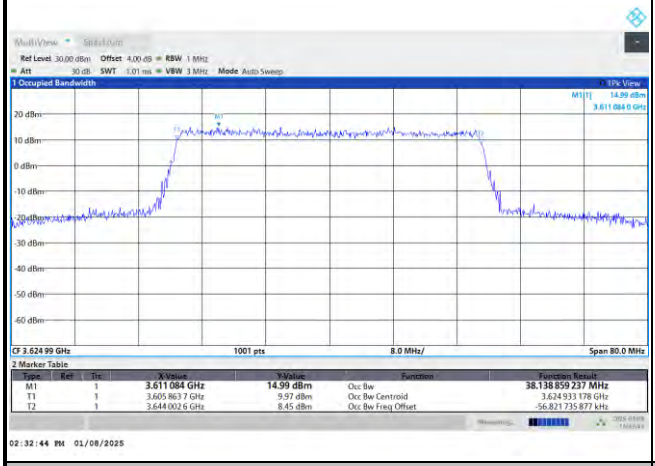
FR1 n48 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

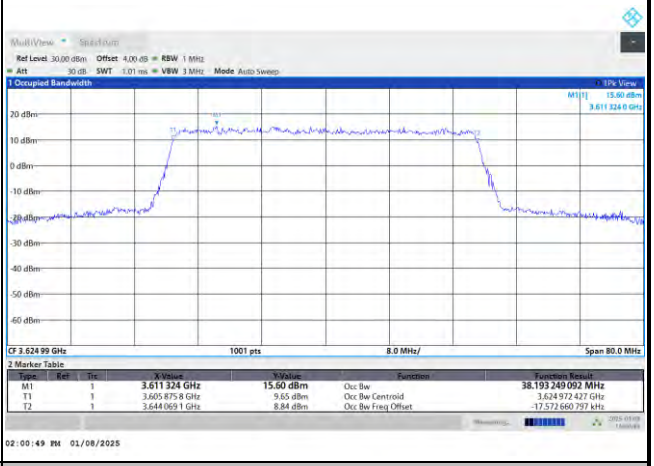


FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK

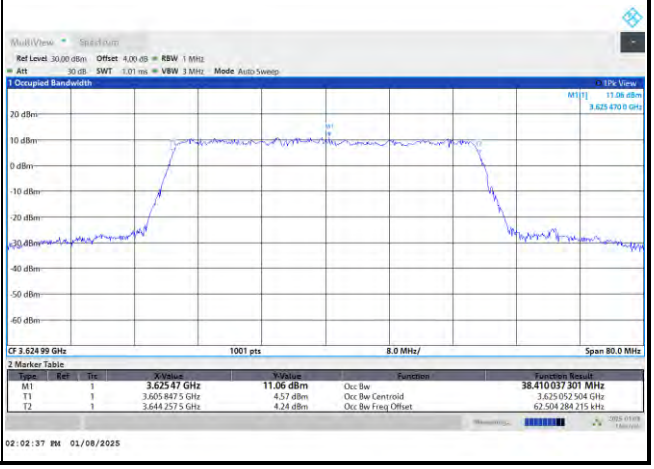


16QAM



64QAM

256QAM

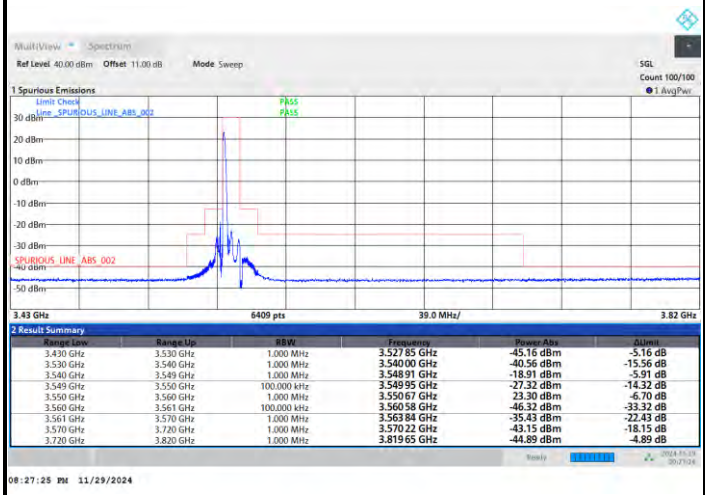


Unwanted Emission (MASK)

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

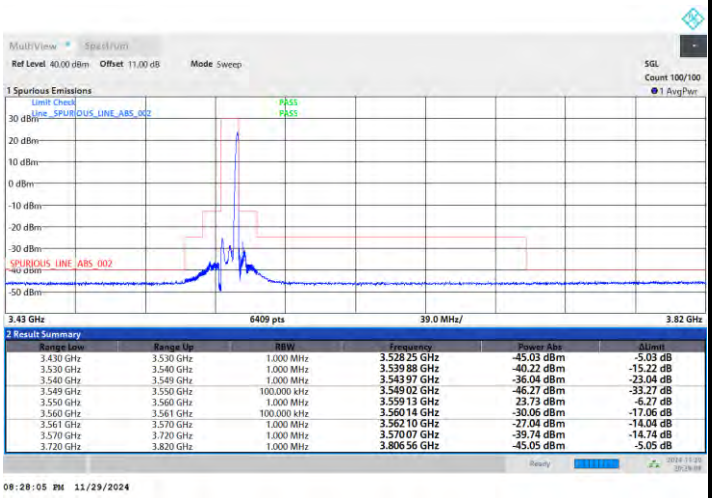
Lowest Channel

1RB0



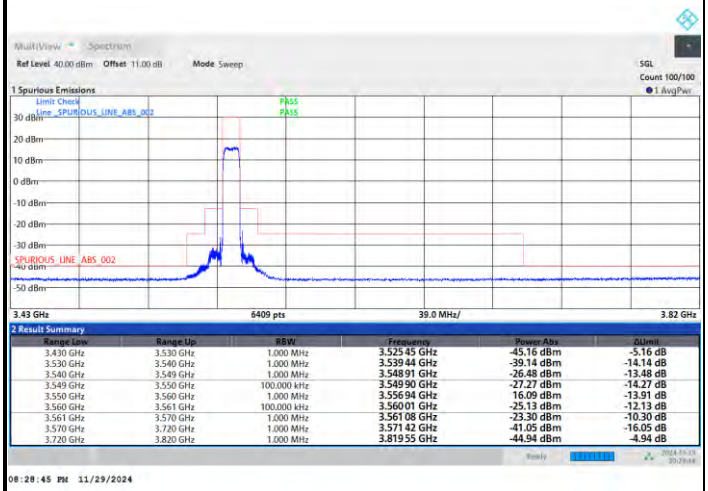
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.527 85 GHz	-45.16 dBm	-5.16 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.540 00 GHz	-40.56 dBm	-15.56 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 91 GHz	-18.91 dBm	-5.91 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.549 95 GHz	-27.32 dBm	-14.32 dB
3.550 GHz	3.560 GHz	1.000 MHz	3.550 67 GHz	23.30 dBm	-6.70 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.560 58 GHz	-46.32 dBm	-33.32 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.563 84 GHz	-35.43 dBm	-22.43 dB
3.570 GHz	3.720 GHz	1.000 MHz	3.570 22 GHz	-43.15 dBm	-18.15 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.819 65 GHz	-44.89 dBm	-4.89 dB

1RBmax



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.528 25 GHz	-45.03 dBm	-5.03 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.539 88 GHz	-40.22 dBm	-15.22 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.543 97 GHz	-36.04 dBm	-23.04 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.549 02 GHz	-46.27 dBm	-33.27 dB
3.550 GHz	3.560 GHz	1.000 MHz	3.559 13 GHz	23.73 dBm	-6.27 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.560 14 GHz	-30.06 dBm	-17.06 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.562 10 GHz	-27.04 dBm	-14.04 dB
3.570 GHz	3.720 GHz	1.000 MHz	3.570 07 GHz	-39.74 dBm	-14.74 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.806 56 GHz	-45.05 dBm	-5.05 dB

Full RB

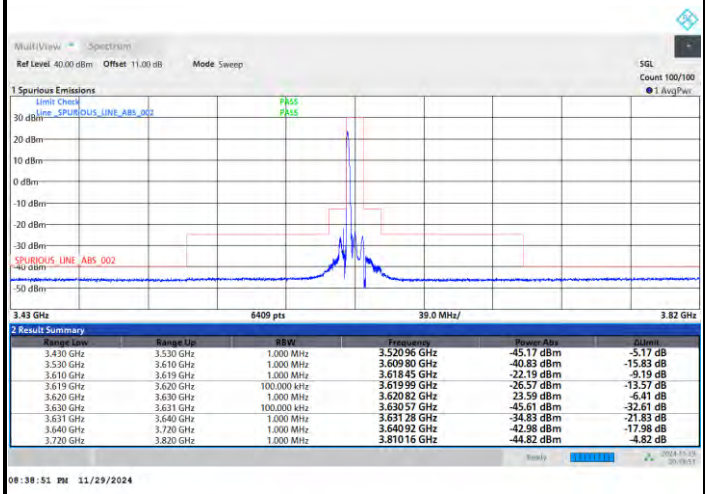


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.525 45 GHz	-45.16 dBm	-5.16 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.539 44 GHz	-39.14 dBm	-14.14 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 91 GHz	-26.48 dBm	-13.48 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.549 90 GHz	-27.27 dBm	-14.27 dB
3.550 GHz	3.560 GHz	1.000 MHz	3.556 94 GHz	16.09 dBm	-13.91 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.560 01 GHz	-25.13 dBm	-12.13 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.561 08 GHz	-23.30 dBm	-10.30 dB
3.570 GHz	3.720 GHz	1.000 MHz	3.571 42 GHz	-41.05 dBm	-16.05 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.819 55 GHz	-44.94 dBm	-4.94 dB

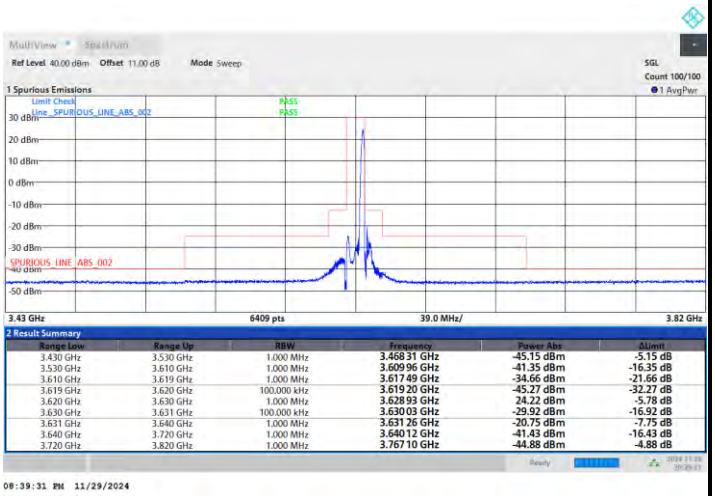
FR1 n48 / 10MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

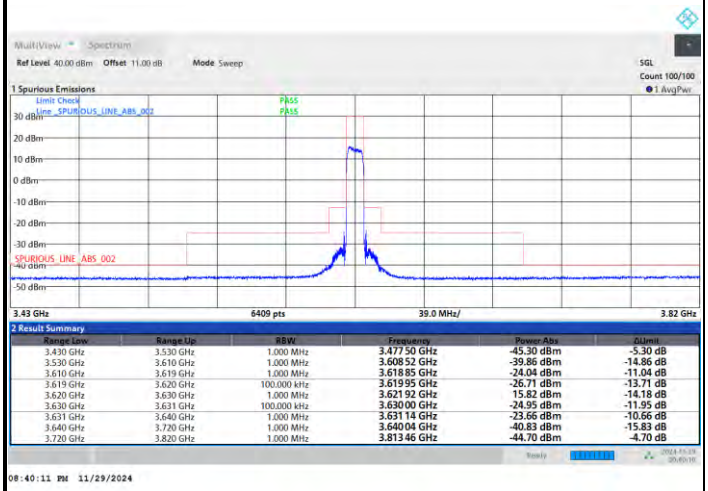
1RB0



1RBmax



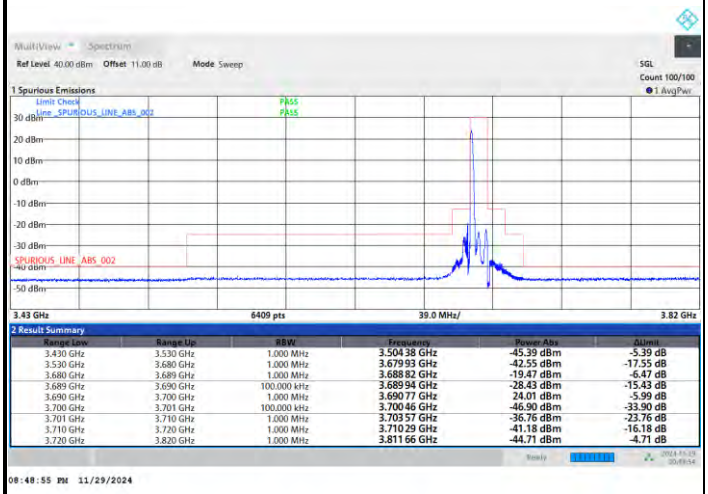
Full RB



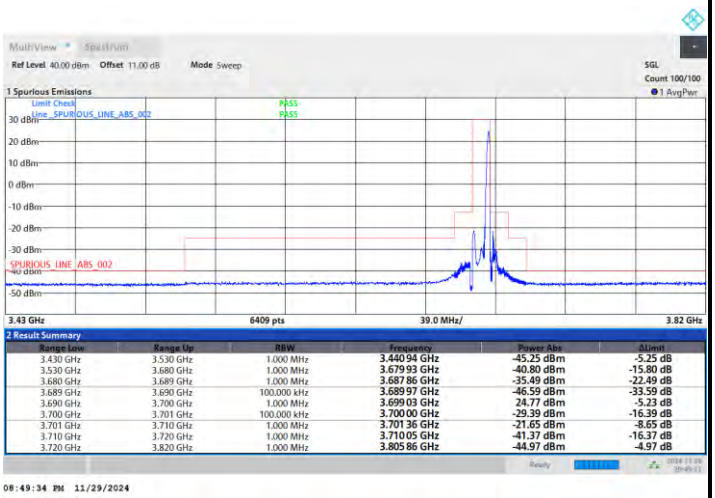
FR1 n48 / 10MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

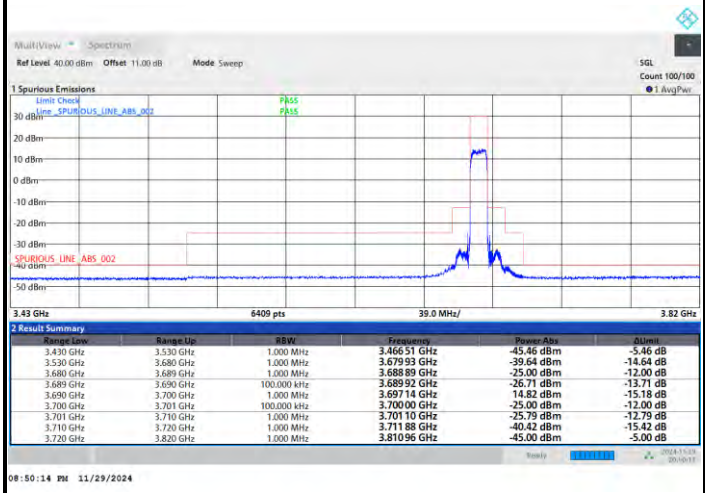
1RB0



1RBmax



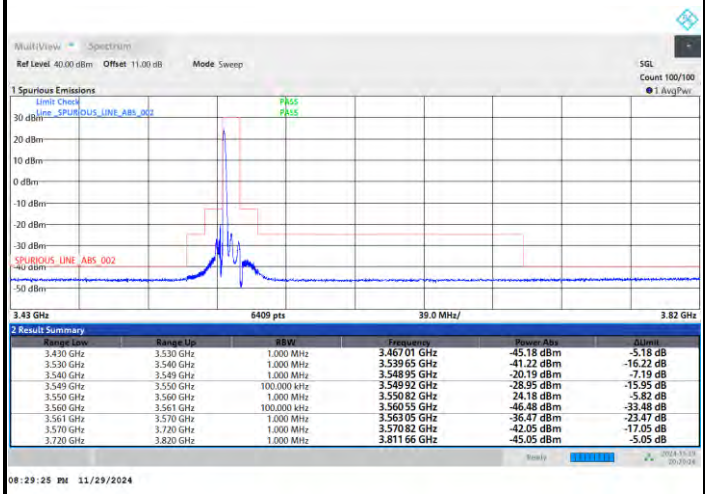
Full RB



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

Lowest Channel

1RB0



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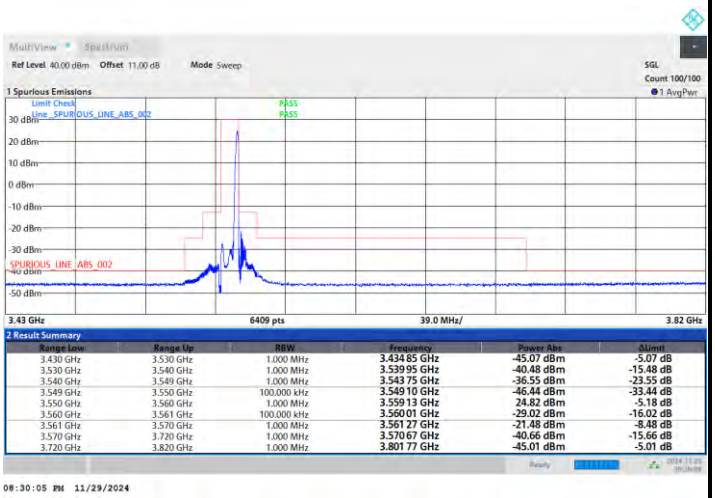
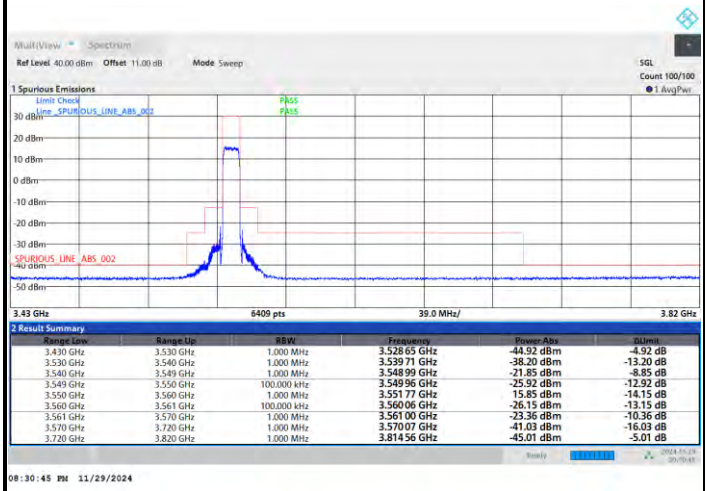


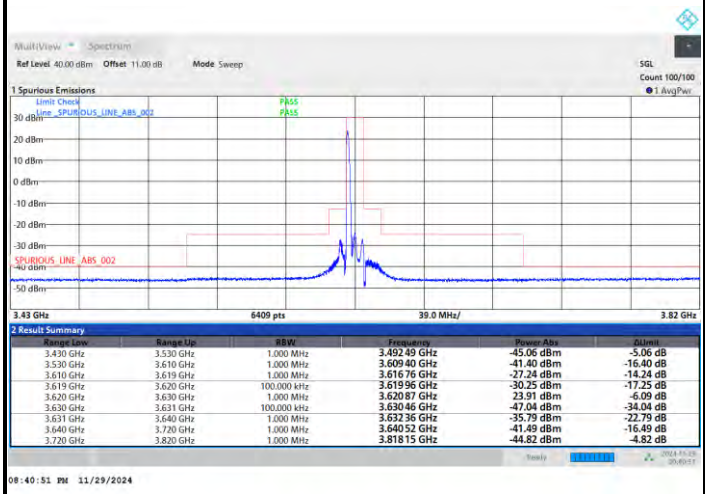
Full RB



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

Middle Channel

1RB0



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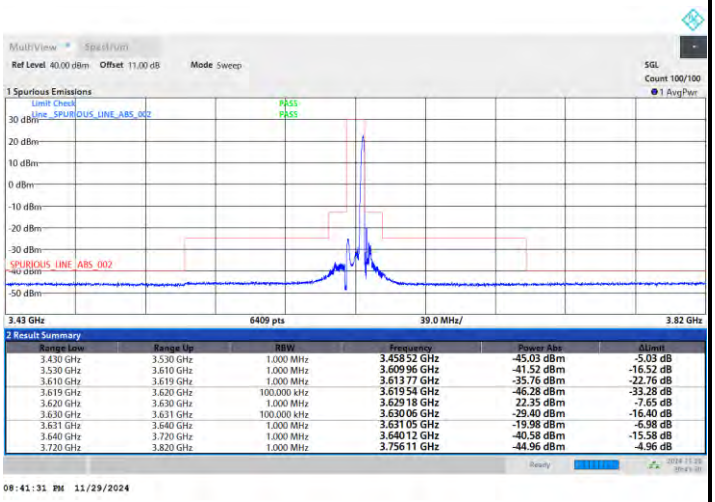
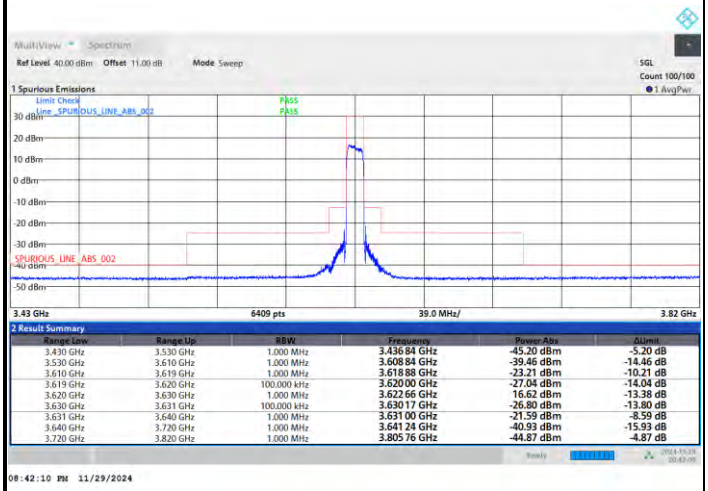


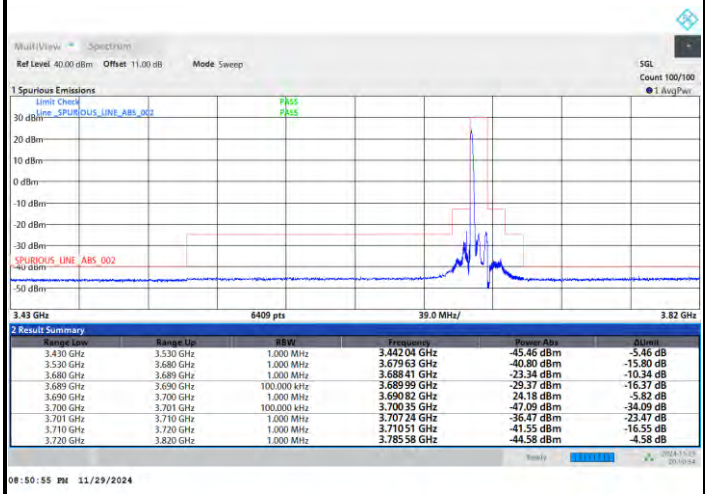
Full RB



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

Highest Channel

1RB0



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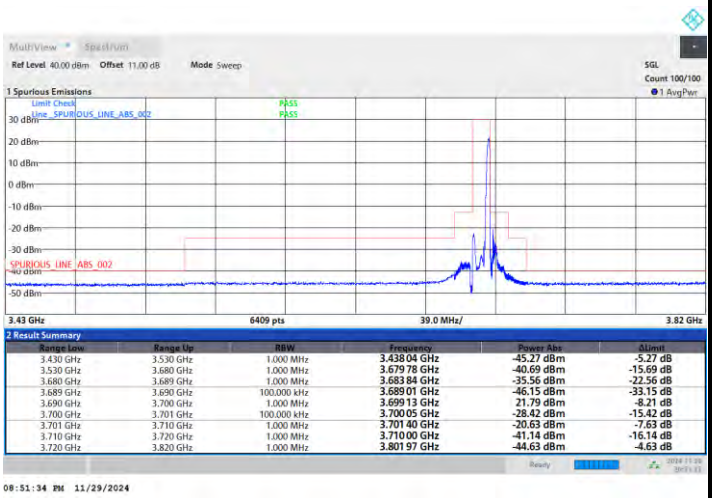
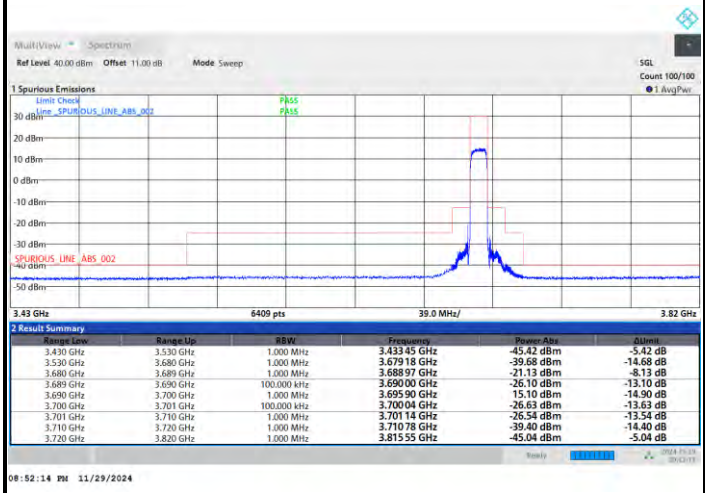


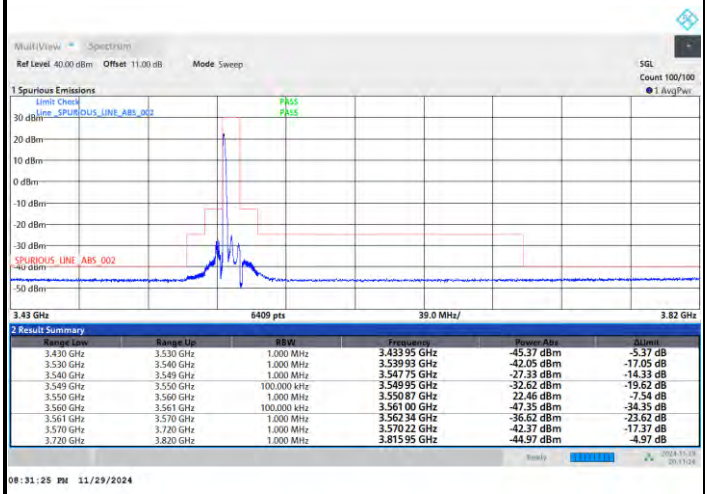
Full RB



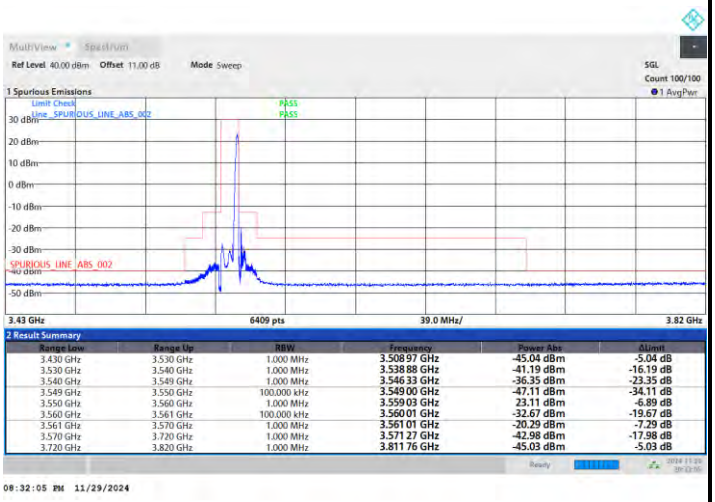
FR1 n48 / 10MHz / DFT-S OFDM / 16QAM

Lowest Channel

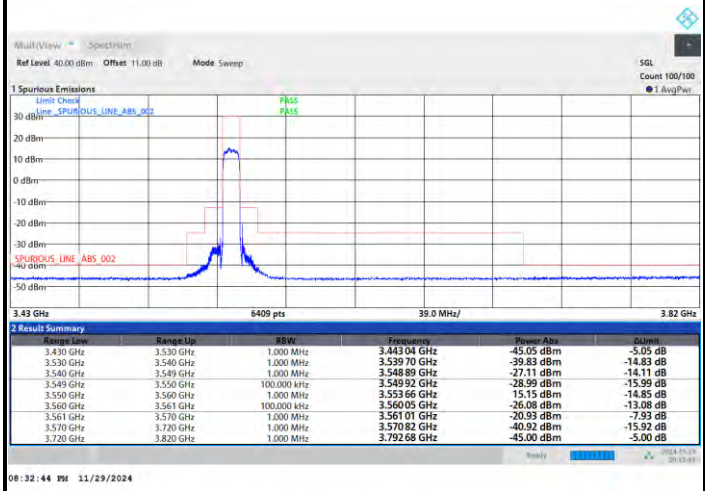
1RB0



1RBmax



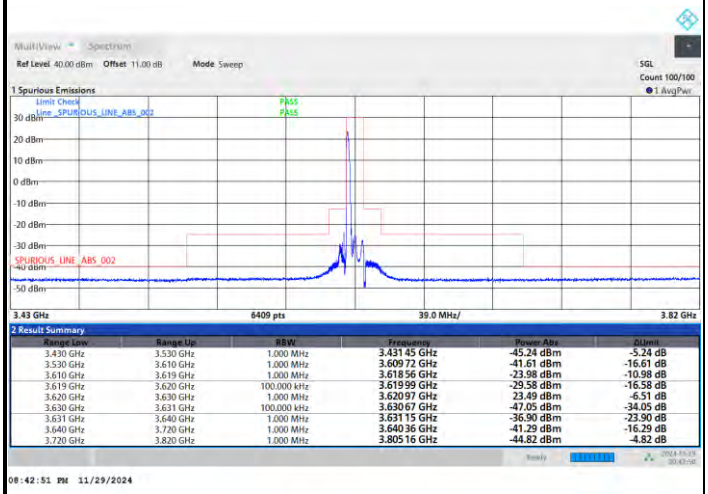
Full RB



FR1 n48 / 10MHz / DFT-S OFDM / 16QAM

Middle Channel

1RB0



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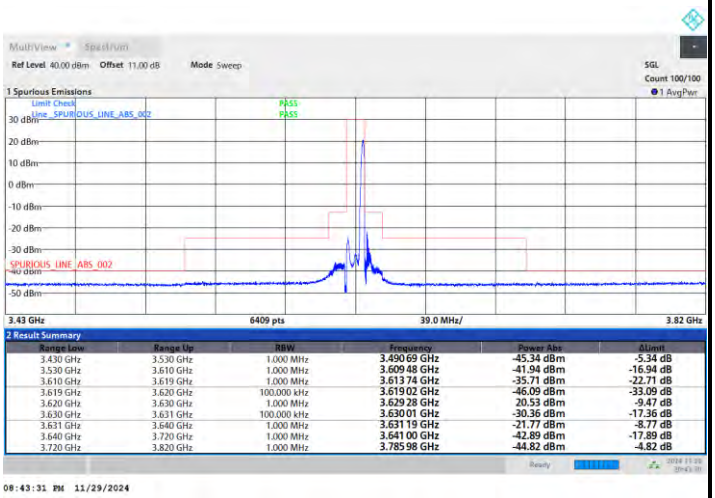
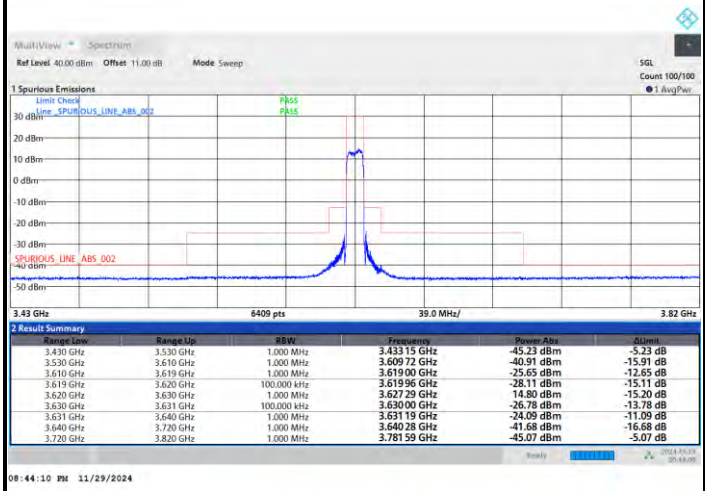


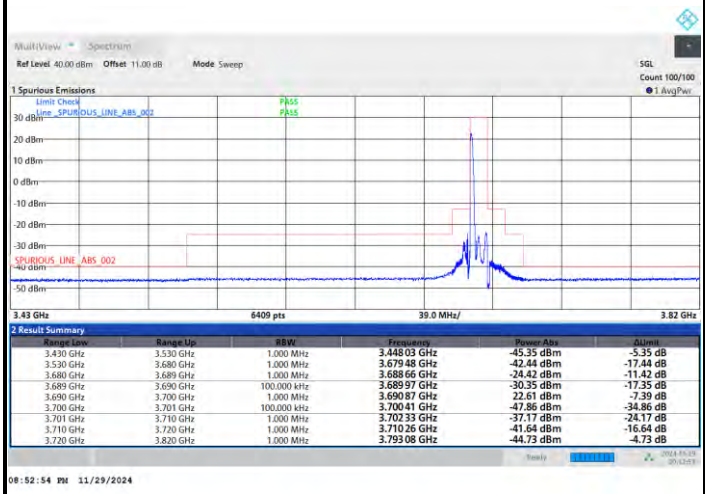
Full RB



FR1 n48 / 10MHz / DFT-S OFDM / 16QAM

Highest Channel

1RB0



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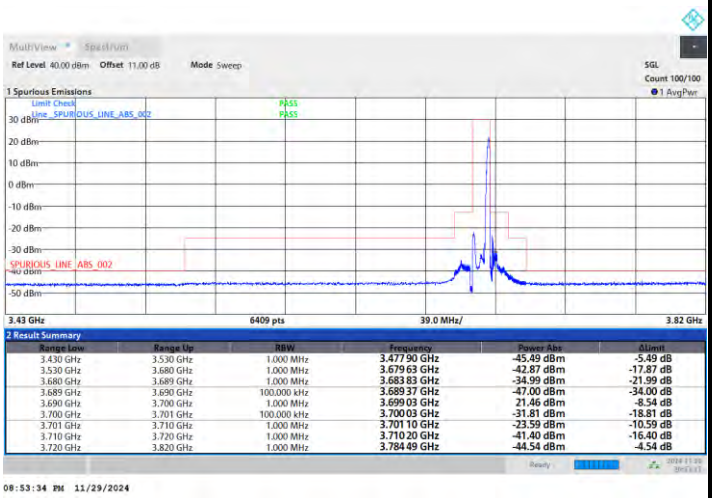
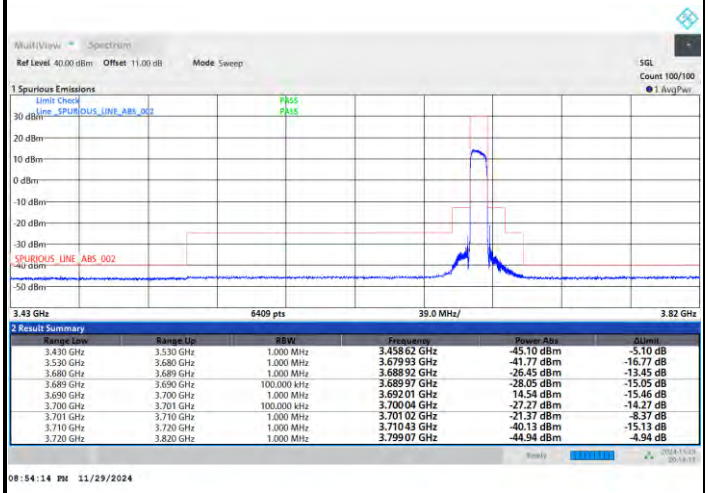


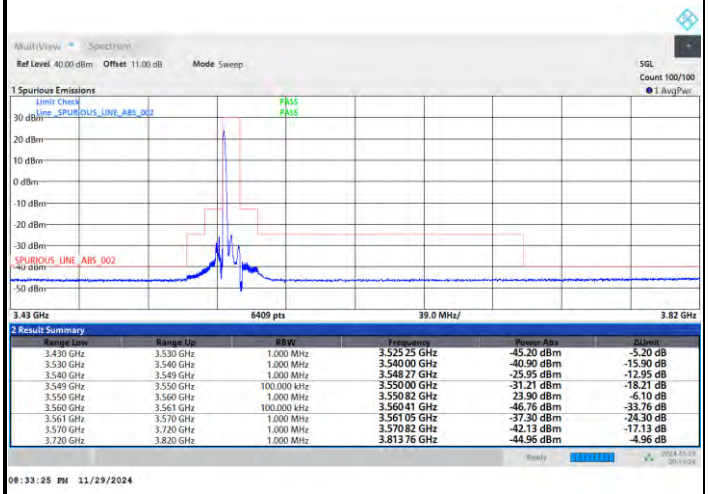
Full RB



FR1 n48 / 10MHz / DFT-S OFDM / 64QAM

Lowest Channel

1RB0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.525 25 GHz	-45.20 dBm	-5.20 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.540 00 GHz	-40.90 dBm	-15.90 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 27 GHz	-25.95 dBm	-12.95 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.550 00 GHz	-31.21 dBm	-18.21 dB
3.550 GHz	3.560 GHz	1.000 MHz	3.550 82 GHz	23.90 dBm	-6.10 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.560 41 GHz	-46.76 dBm	-33.76 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.561 05 GHz	-37.30 dBm	-24.30 dB
3.570 GHz	3.720 GHz	1.000 MHz	3.570 82 GHz	-42.13 dBm	-17.13 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.813 76 GHz	-44.96 dBm	-4.96 dB

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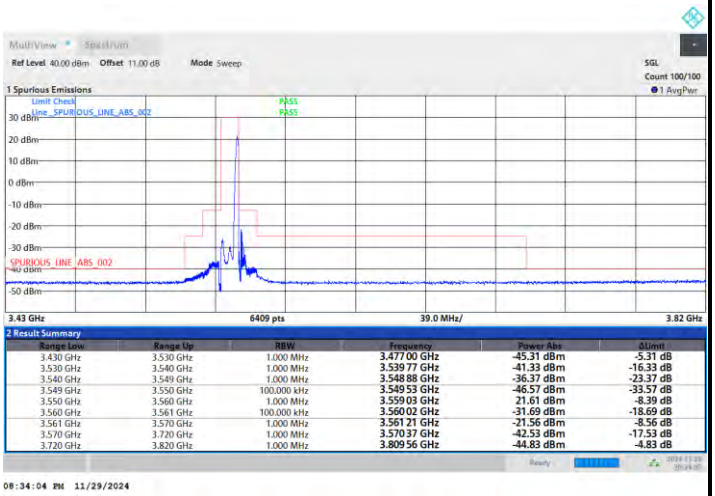
1RBmax



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.477 00 GHz	-45.31 dBm	-5.31 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.539 77 GHz	-41.33 dBm	-16.33 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 88 GHz	-36.37 dBm	-23.37 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.549 53 GHz	-46.57 dBm	-33.57 dB
3.550 GHz	3.560 GHz	1.000 MHz	3.559 03 GHz	21.61 dBm	-8.39 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.560 02 GHz	-31.69 dBm	-18.69 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.561 21 GHz	-21.56 dBm	-8.56 dB
3.570 GHz	3.720 GHz	1.000 MHz	3.570 37 GHz	-42.53 dBm	-17.53 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.809 56 GHz	-44.83 dBm	-4.83 dB

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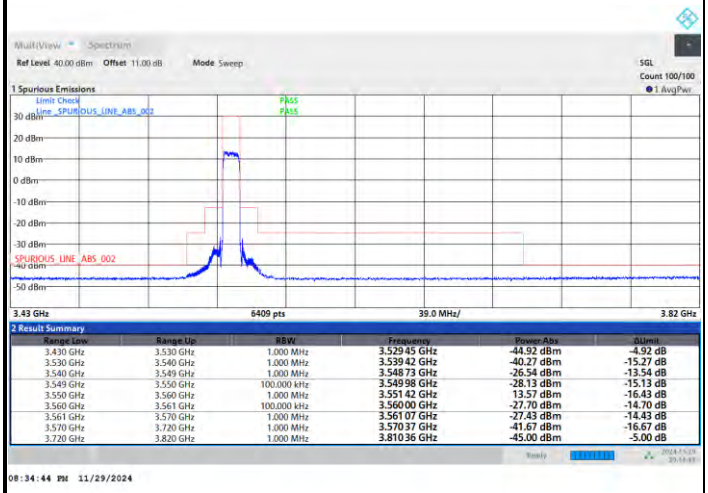
Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.529 45 GHz	-44.92 dBm	-4.92 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.539 42 GHz	-40.27 dBm	-15.27 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 73 GHz	-26.54 dBm	-13.54 dB
3.549 GHz	3.550 GHz	100.000 kHz	3.549 98 GHz	-28.13 dBm	-15.13 dB
3.550 GHz	3.560 GHz	1.000 MHz	3.551 42 GHz	13.57 dBm	-16.43 dB
3.560 GHz	3.561 GHz	100.000 kHz	3.560 00 GHz	-27.70 dBm	-14.70 dB
3.561 GHz	3.570 GHz	1.000 MHz	3.561 07 GHz	-27.43 dBm	-14.43 dB
3.570 GHz	3.720 GHz	1.000 MHz	3.570 37 GHz	-41.67 dBm	-16.67 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.810 36 GHz	-45.00 dBm	-5.00 dB

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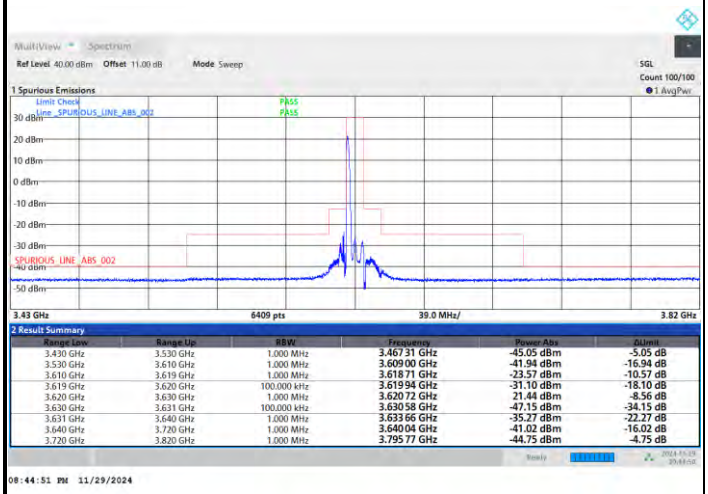
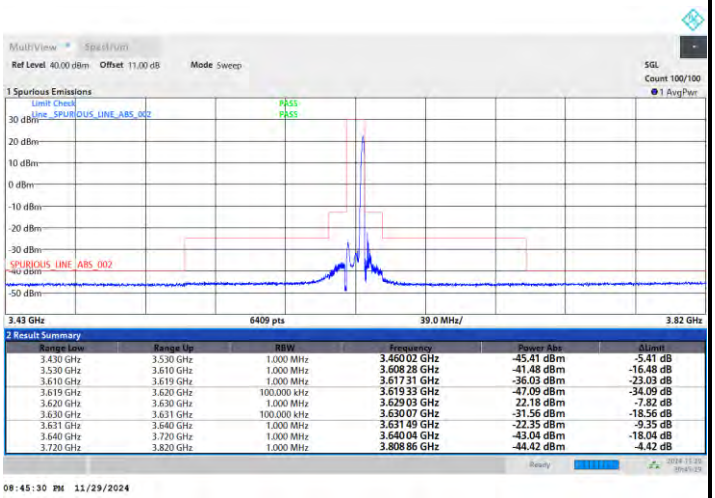
FR1 n48 / 10MHz / DFT-S OFDM / 64QAM

Middle Channel

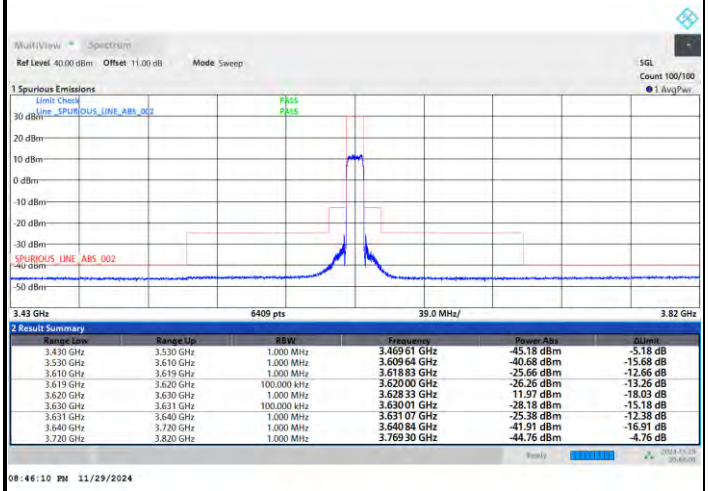
1RB0



1RBmax



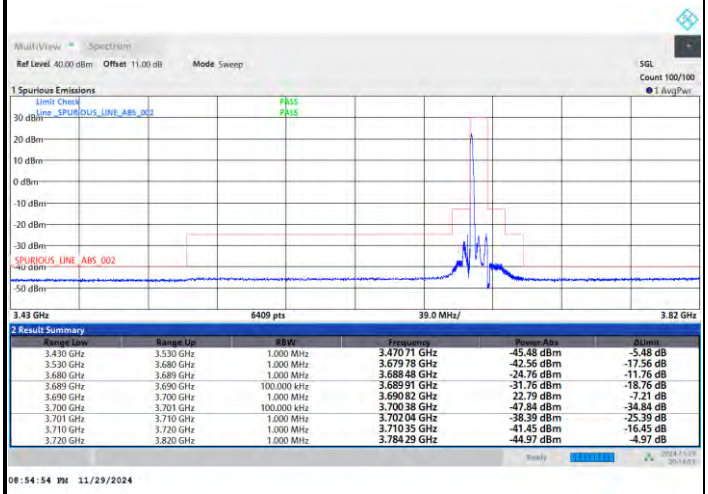
Full RB



FR1 n48 / 10MHz / DFT-S OFDM / 64QAM

Highest Channel

1RB0



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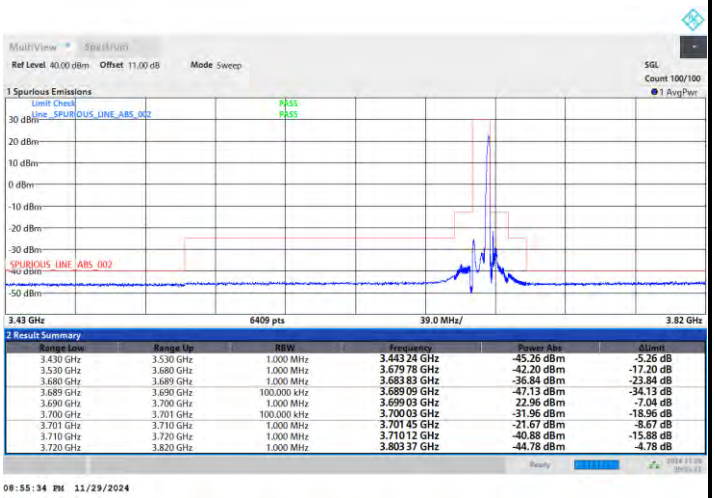
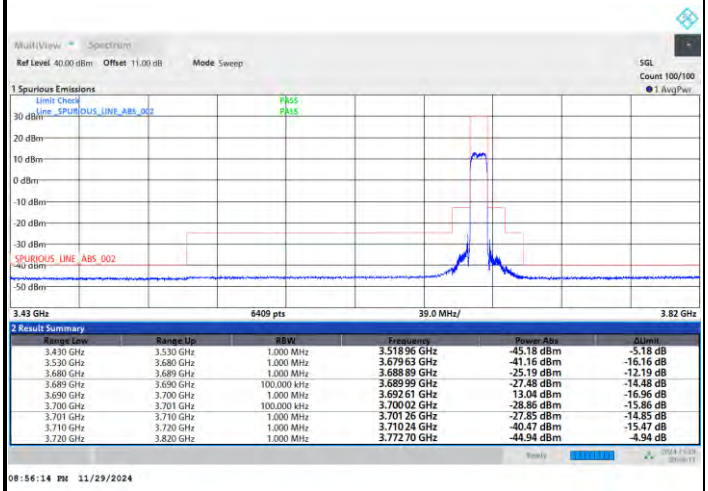


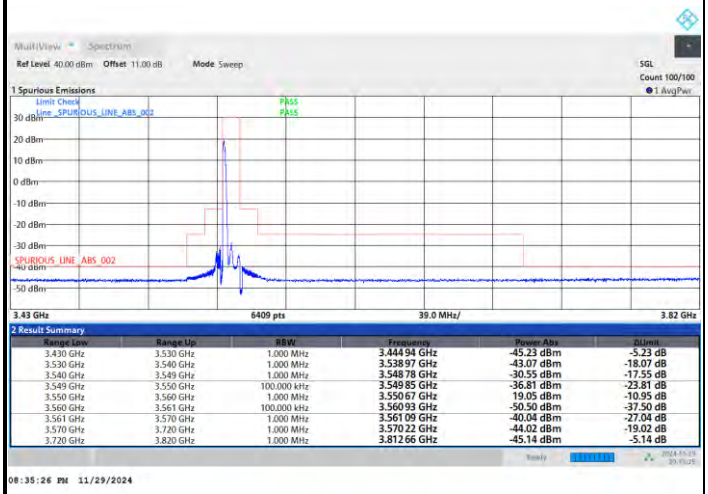
Full RB



FR1 n48 / 10MHz / DFT-S OFDM / 256QAM

Lowest Channel

1RB0



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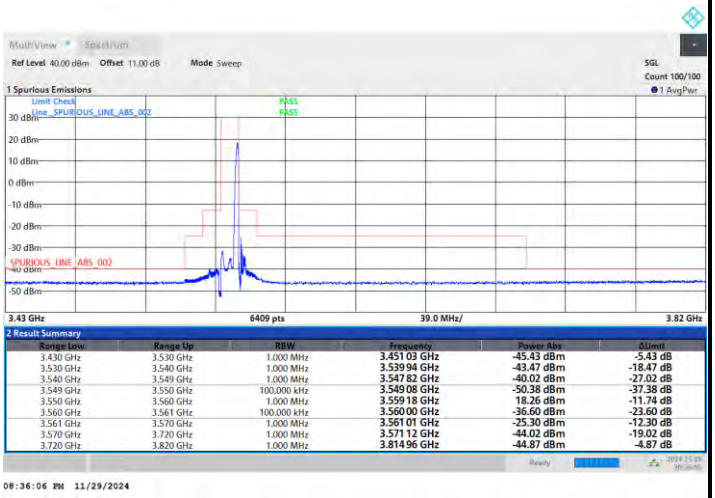
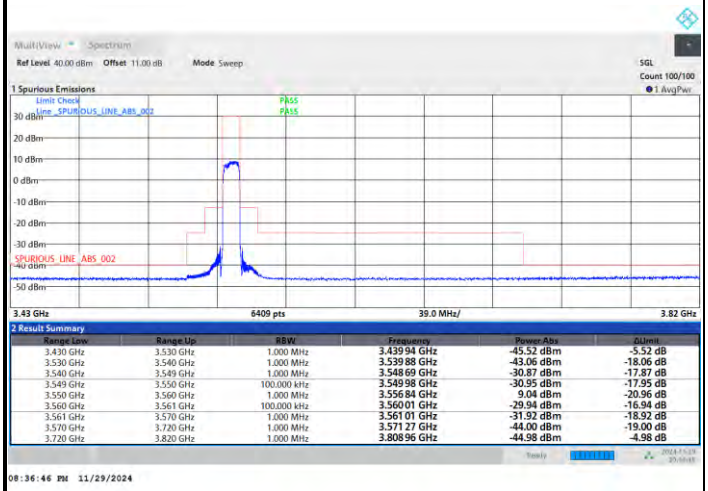


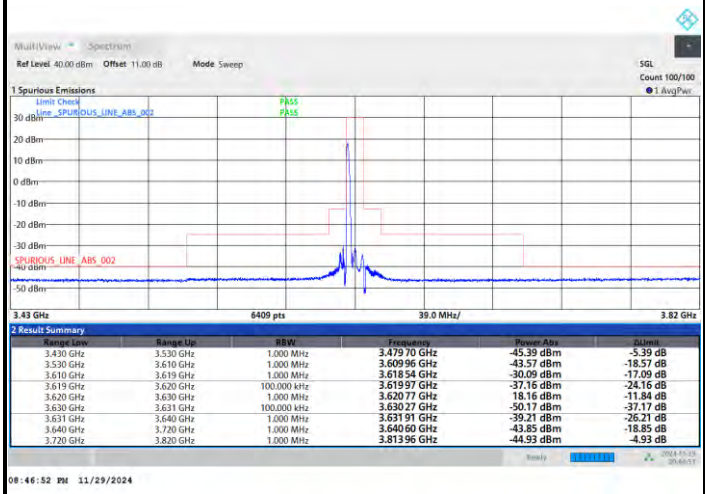
Full RB



FR1 n48 / 10MHz / DFT-S OFDM / 256QAM

Middle Channel

1RB0



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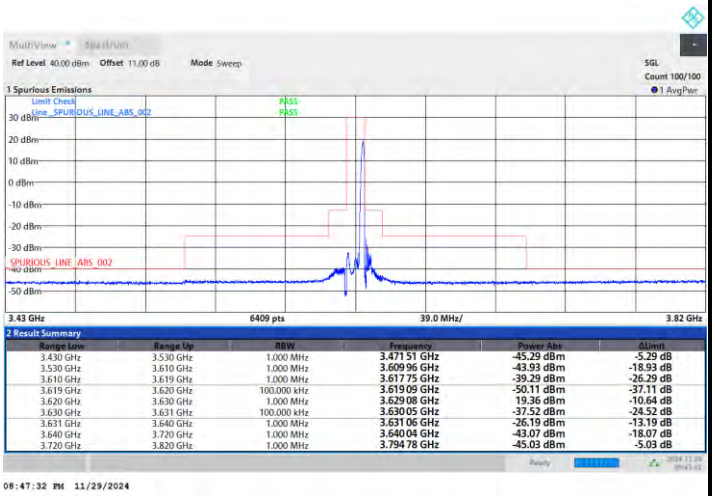
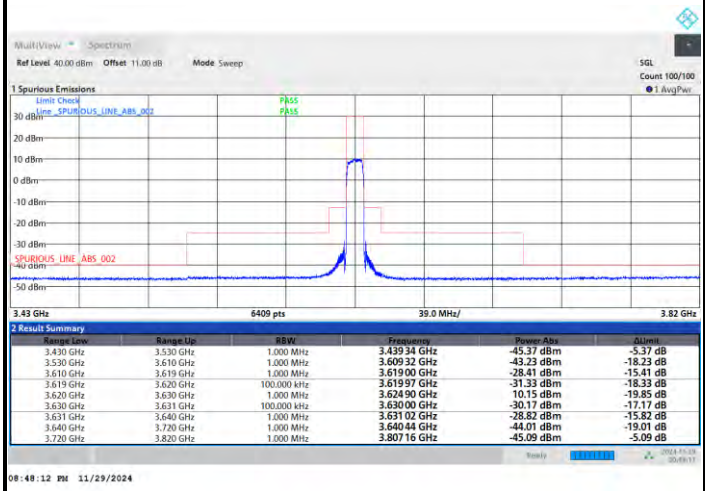


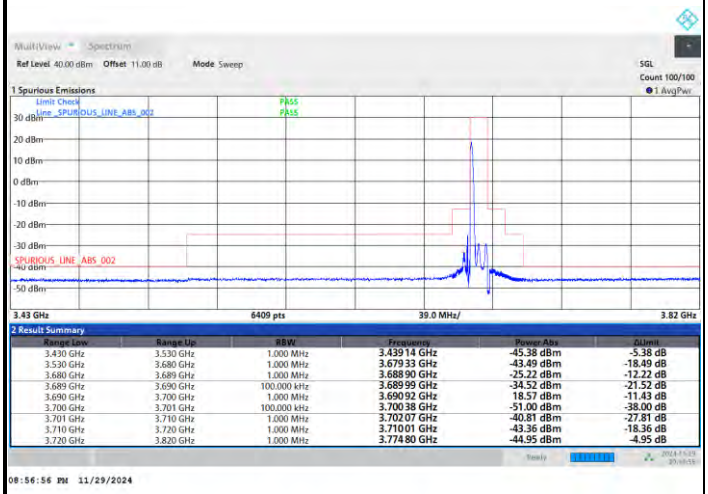
Full RB



FR1 n48 / 10MHz / DFT-S OFDM / 256QAM

Highest Channel

1RB0



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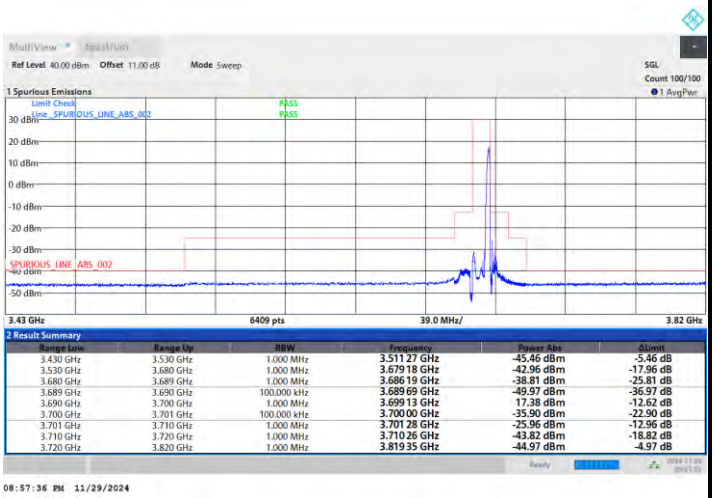
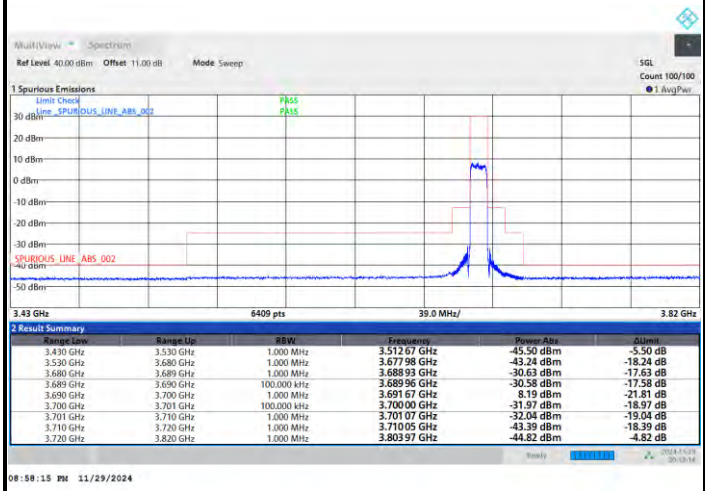
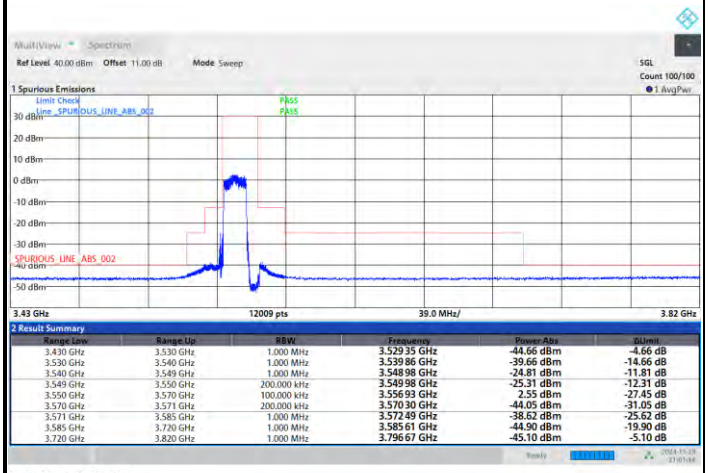


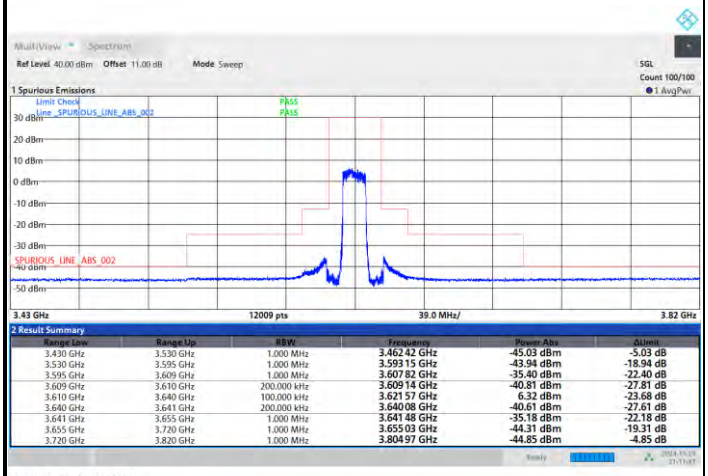
Full RB



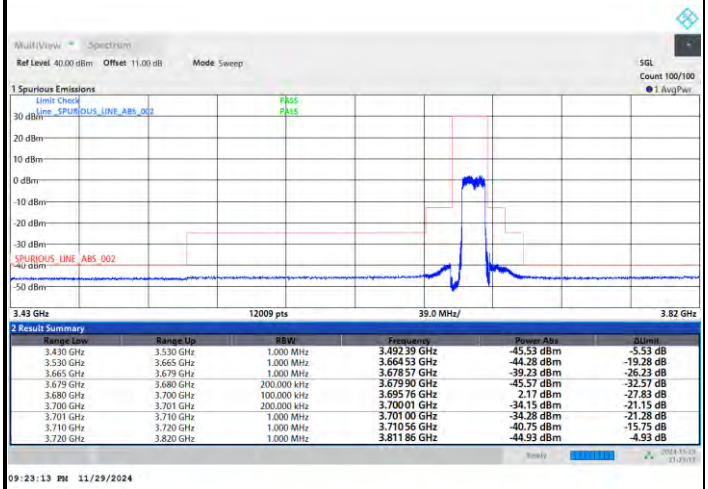
FR1 n48 / 15MHz / DFT-S OFDM / PI/2 BPSK	
Lowest Channel	
Full RB	



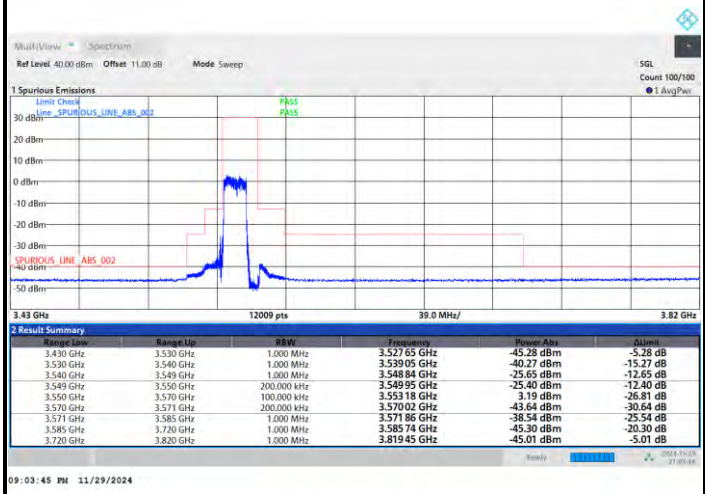
FR1 n48 / 15MHz / DFT-S OFDM / PI/2 BPSK	
Middle Channel	
Full RB	

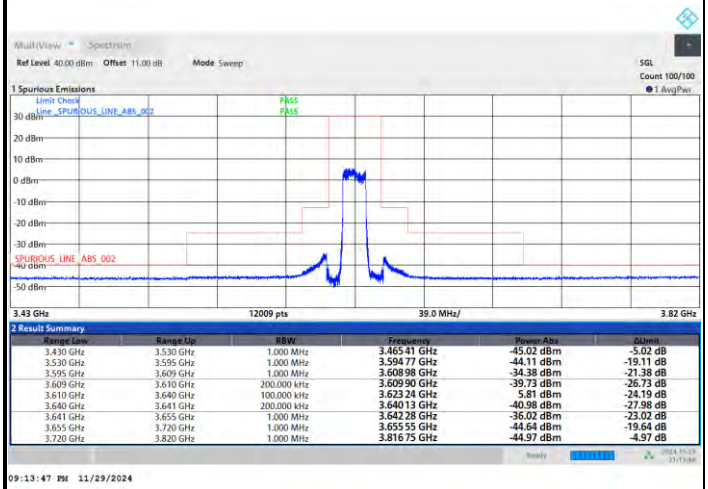


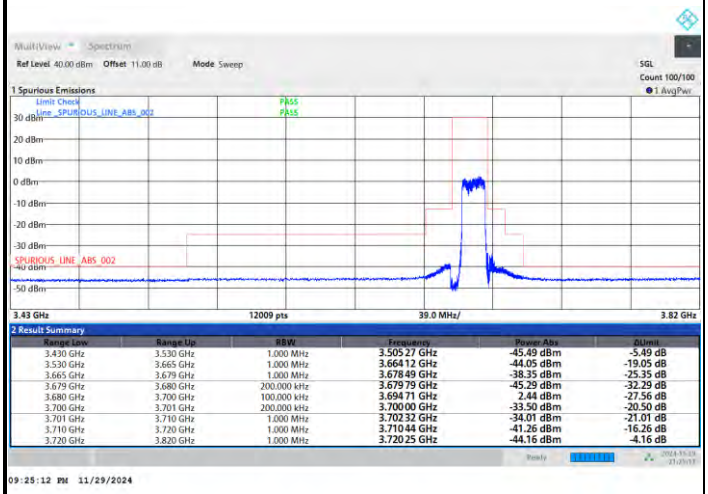
FR1 n48 / 15MHz / DFT-S OFDM / PI/2 BPSK	
Highest Channel	
Full RB	



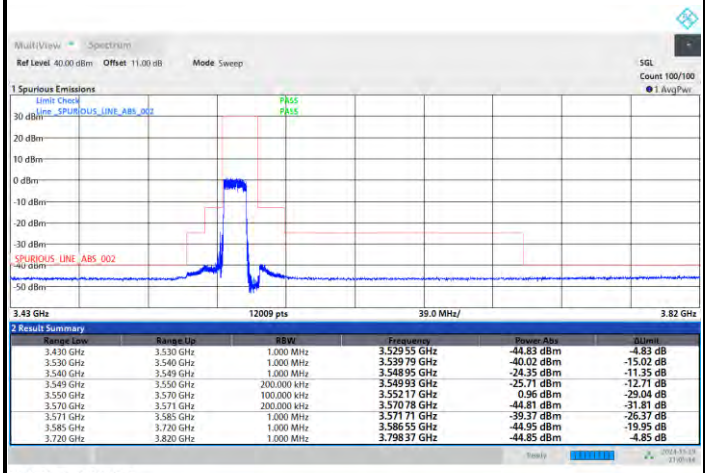
FR1 n48 / 15MHz / DFT-S OFDM / QPSK	
Lowest Channel	
Full RB	



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

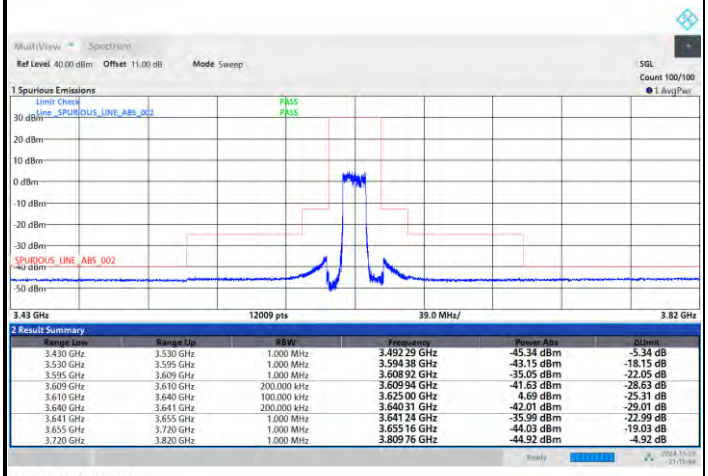
FR1 n48 / 15MHz / DFT-S OFDM / QPSK	
Highest Channel	
Full RB	
	

FR1 n48 / 15MHz / DFT-S OFDM / 16QAM	
Lowest Channel	
Full RB	



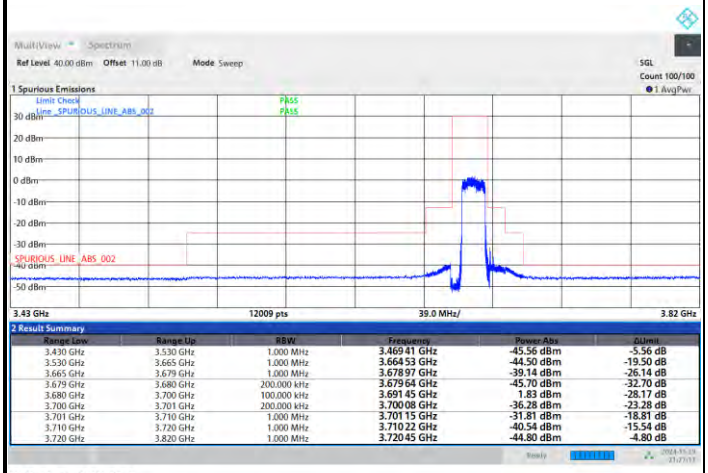
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.529 55 GHz	-44.83 dBm	-4.83 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.539 79 GHz	-40.02 dBm	-15.02 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 95 GHz	-24.35 dBm	-11.35 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.549 93 GHz	-25.71 dBm	-12.71 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.552 17 GHz	0.96 dBm	-29.04 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.570 78 GHz	-44.81 dBm	-31.81 dB
3.571 GHz	3.585 GHz	1.000 MHz	3.571 71 GHz	-39.37 dBm	-26.37 dB
3.585 GHz	3.720 GHz	1.000 MHz	3.586 55 GHz	-44.95 dBm	-19.95 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.798 37 GHz	-44.85 dBm	-4.85 dB

FR1 n48 / 15MHz / DFT-S OFDM / 16QAM	
Middle Channel	
Full RB	



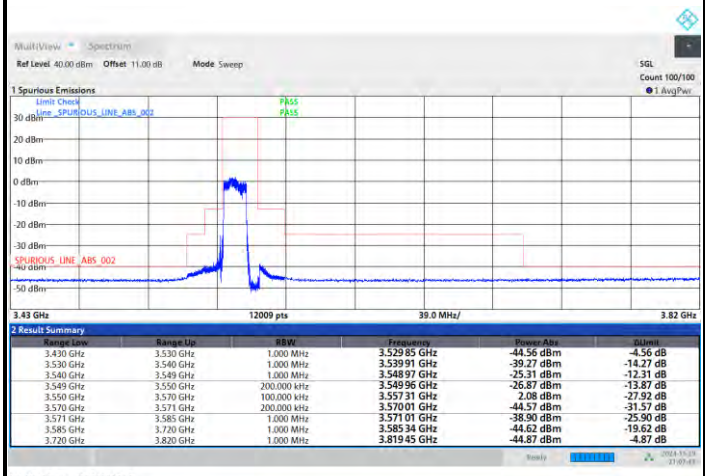
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.492 29 GHz	-45.34 dBm	-5.34 dB
3.530 GHz	3.595 GHz	1.000 MHz	3.594 38 GHz	-43.15 dBm	-18.15 dB
3.595 GHz	3.609 GHz	1.000 MHz	3.608 92 GHz	-35.05 dBm	-22.05 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.609 94 GHz	-41.63 dBm	-28.63 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.625 00 GHz	4.69 dBm	-25.31 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.640 31 GHz	-42.01 dBm	-29.01 dB
3.641 GHz	3.655 GHz	1.000 MHz	3.641 24 GHz	-35.99 dBm	-22.99 dB
3.655 GHz	3.720 GHz	1.000 MHz	3.655 16 GHz	-44.03 dBm	-19.03 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.809 76 GHz	-44.92 dBm	-4.92 dB

FR1 n48 / 15MHz / DFT-S OFDM / 16QAM	
Highest Channel	
Full RB	



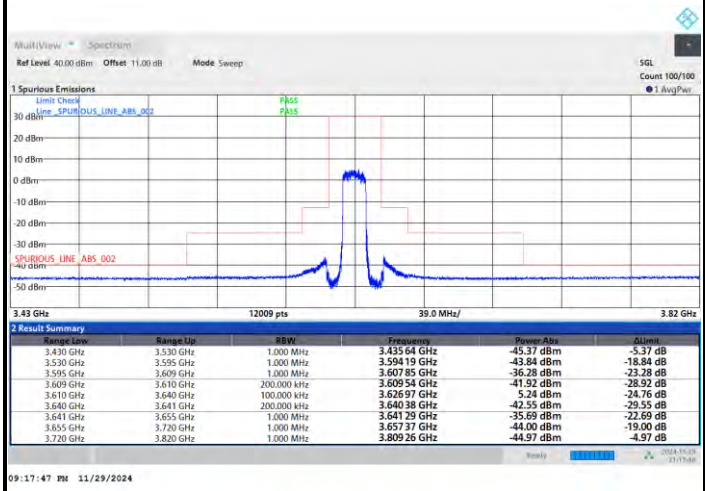
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.469 41 GHz	-45.56 dBm	-5.56 dB
3.530 GHz	3.665 GHz	1.000 MHz	3.664 53 GHz	-44.50 dBm	-19.50 dB
3.665 GHz	3.679 GHz	1.000 MHz	3.678 97 GHz	-39.14 dBm	-26.14 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.679 64 GHz	-45.70 dBm	-32.70 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.691 45 GHz	1.83 dBm	-28.17 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.700 08 GHz	-36.28 dBm	-23.28 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.701 15 GHz	-31.81 dBm	-18.81 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.710 22 GHz	-40.54 dBm	-15.54 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.720 45 GHz	-44.80 dBm	-4.80 dB

FR1 n48 / 15MHz / DFT-S OFDM / 64QAM	
Lowest Channel	
Full RB	



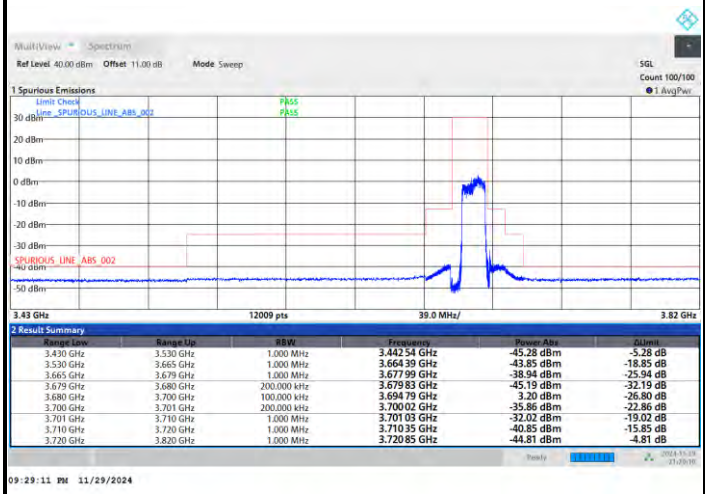
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.529 85 GHz	-44.56 dBm	-4.56 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.539 91 GHz	-39.27 dBm	-14.27 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 97 GHz	-25.31 dBm	-12.31 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.549 96 GHz	-26.87 dBm	-13.87 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.557 31 GHz	2.08 dBm	-27.92 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.570 01 GHz	-44.57 dBm	-31.57 dB
3.571 GHz	3.585 GHz	1.000 MHz	3.571 01 GHz	-38.90 dBm	-25.90 dB
3.585 GHz	3.720 GHz	1.000 MHz	3.585 34 GHz	-44.62 dBm	-19.62 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.819 45 GHz	-44.87 dBm	-4.87 dB

FR1 n48 / 15MHz / DFT-S OFDM / 64QAM	
Middle Channel	
Full RB	



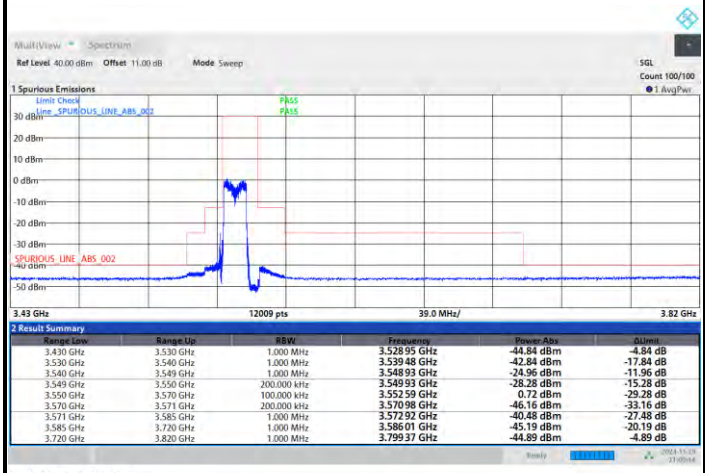
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.435 64 GHz	-45.37 dBm	-5.37 dB
3.530 GHz	3.595 GHz	1.000 MHz	3.594 19 GHz	-43.84 dBm	-18.84 dB
3.595 GHz	3.609 GHz	1.000 MHz	3.607 85 GHz	-36.28 dBm	-23.28 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.609 54 GHz	-41.92 dBm	-28.92 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.626 97 GHz	5.24 dBm	-24.76 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.640 38 GHz	-42.55 dBm	-29.55 dB
3.641 GHz	3.655 GHz	1.000 MHz	3.641 29 GHz	-35.69 dBm	-22.69 dB
3.655 GHz	3.720 GHz	1.000 MHz	3.657 37 GHz	-44.00 dBm	-19.00 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.809 26 GHz	-44.97 dBm	-4.97 dB

FR1 n48 / 15MHz / DFT-S OFDM / 64QAM	
Highest Channel	
Full RB	



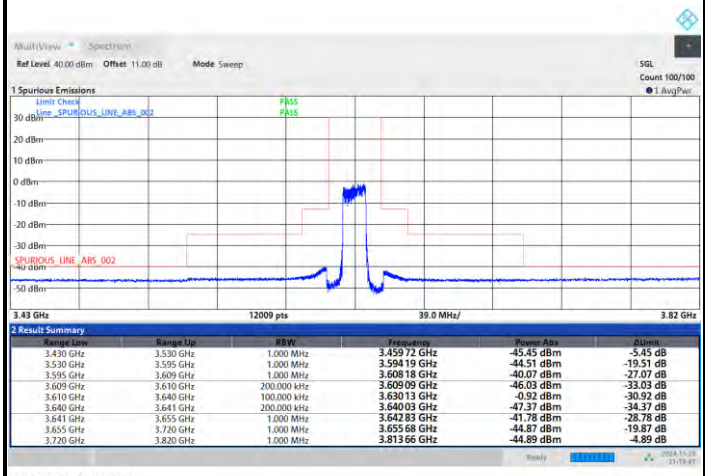
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.442 54 GHz	-45.28 dBm	-5.28 dB
3.530 GHz	3.665 GHz	1.000 MHz	3.664 39 GHz	-43.85 dBm	-18.85 dB
3.665 GHz	3.679 GHz	1.000 MHz	3.677 99 GHz	-38.94 dBm	-25.94 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.679 83 GHz	-45.19 dBm	-32.19 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.694 79 GHz	3.20 dBm	-26.80 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.700 02 GHz	-35.86 dBm	-22.86 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.701 03 GHz	-32.02 dBm	-19.02 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.710 35 GHz	-40.85 dBm	-15.85 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.720 85 GHz	-44.81 dBm	-4.81 dB

FR1 n48 / 15MHz / DFT-S OFDM / 256QAM	
Lowest Channel	
Full RB	



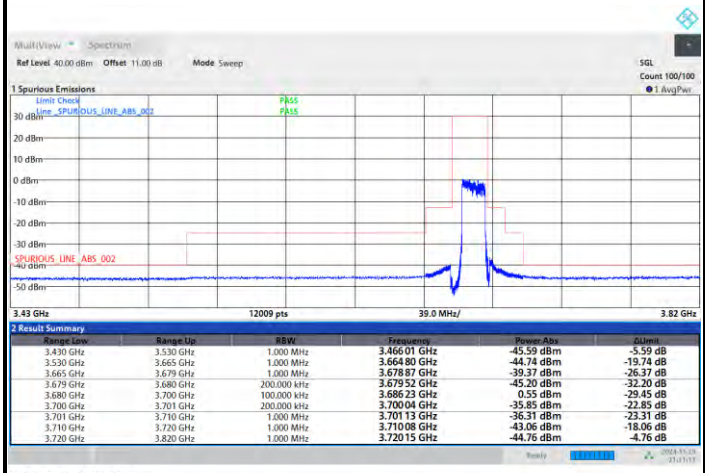
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.528 95 GHz	-44.84 dBm	-4.84 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.539 48 GHz	-42.84 dBm	-17.84 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 93 GHz	-24.96 dBm	-11.96 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.549 93 GHz	-28.28 dBm	-15.28 dB
3.550 GHz	3.570 GHz	100.000 kHz	3.552 59 GHz	0.72 dBm	-29.28 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.570 98 GHz	-46.16 dBm	-33.16 dB
3.571 GHz	3.585 GHz	1.000 MHz	3.572 92 GHz	-40.48 dBm	-27.48 dB
3.585 GHz	3.720 GHz	1.000 MHz	3.586 01 GHz	-45.19 dBm	-20.19 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.799 37 GHz	-44.89 dBm	-4.89 dB

FR1 n48 / 15MHz / DFT-S OFDM / 256QAM	
Middle Channel	
Full RB	



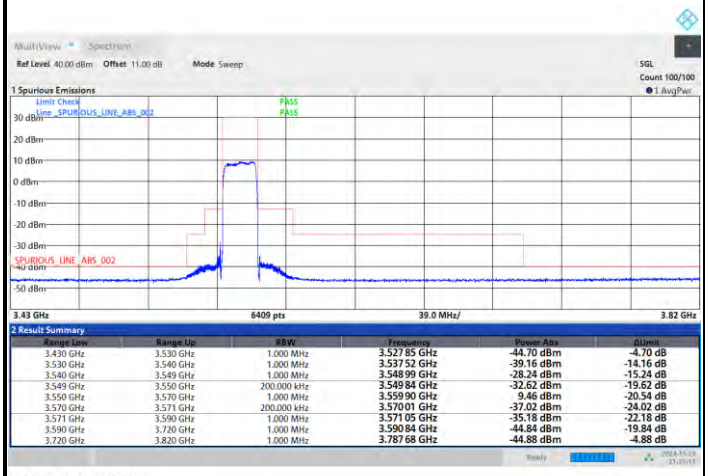
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.459 72 GHz	-45.45 dBm	-5.45 dB
3.530 GHz	3.595 GHz	1.000 MHz	3.594 19 GHz	-44.51 dBm	-19.51 dB
3.595 GHz	3.609 GHz	1.000 MHz	3.608 18 GHz	-40.07 dBm	-27.07 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.609 09 GHz	-46.03 dBm	-33.03 dB
3.610 GHz	3.640 GHz	100.000 kHz	3.630 13 GHz	-0.92 dBm	-30.92 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.640 03 GHz	-47.37 dBm	-34.37 dB
3.641 GHz	3.655 GHz	1.000 MHz	3.642 83 GHz	-41.78 dBm	-28.78 dB
3.655 GHz	3.720 GHz	1.000 MHz	3.655 68 GHz	-44.87 dBm	-19.87 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.813 66 GHz	-44.89 dBm	-4.89 dB

FR1 n48 / 15MHz / DFT-S OFDM / 256QAM	
Highest Channel	
Full RB	



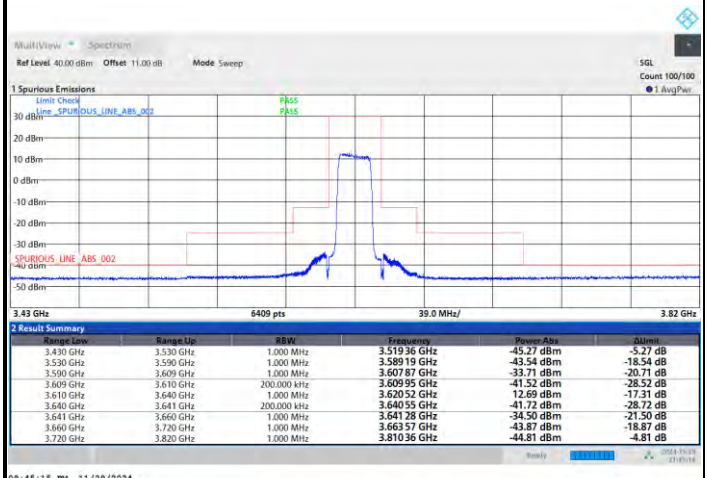
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.466 01 GHz	-45.59 dBm	-5.59 dB
3.530 GHz	3.665 GHz	1.000 MHz	3.664 80 GHz	-44.74 dBm	-19.74 dB
3.665 GHz	3.679 GHz	1.000 MHz	3.678 87 GHz	-39.37 dBm	-26.37 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.679 52 GHz	-45.20 dBm	-32.20 dB
3.680 GHz	3.700 GHz	100.000 kHz	3.686 23 GHz	0.55 dBm	-29.45 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.700 04 GHz	-35.85 dBm	-22.85 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.701 13 GHz	-36.31 dBm	-23.31 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.710 08 GHz	-43.06 dBm	-18.06 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.720 15 GHz	-44.76 dBm	-4.76 dB

FR1 n48 / 20MHz / DFT-S OFDM / PI/2 BPSK	
Lowest Channel	
Full RB	



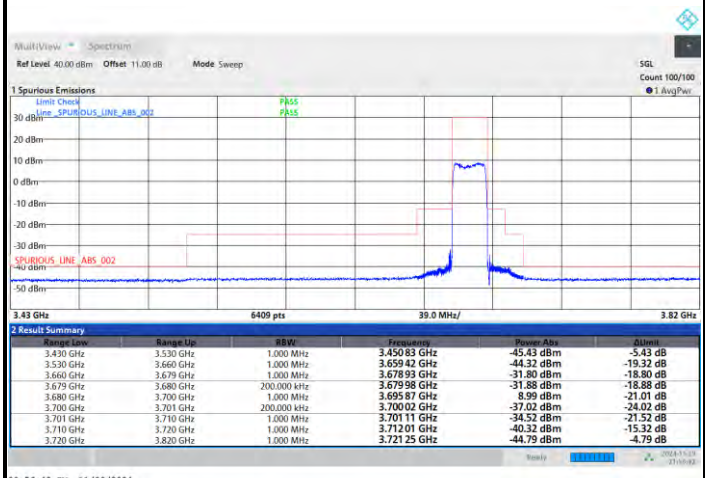
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.527 85 GHz	-44.70 dBm	-4.70 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.537 52 GHz	-39.16 dBm	-14.16 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 99 GHz	-28.24 dBm	-15.24 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.549 84 GHz	-32.62 dBm	-19.62 dB
3.550 GHz	3.570 GHz	1.000 MHz	3.559 90 GHz	9.46 dBm	-20.54 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.570 01 GHz	-37.02 dBm	-24.02 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.571 05 GHz	-35.18 dBm	-22.18 dB
3.590 GHz	3.720 GHz	1.000 MHz	3.590 84 GHz	-44.84 dBm	-19.84 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.787 68 GHz	-44.88 dBm	-4.88 dB

FR1 n48 / 20MHz / DFT-S OFDM / PI/2 BPSK	
Middle Channel	
Full RB	



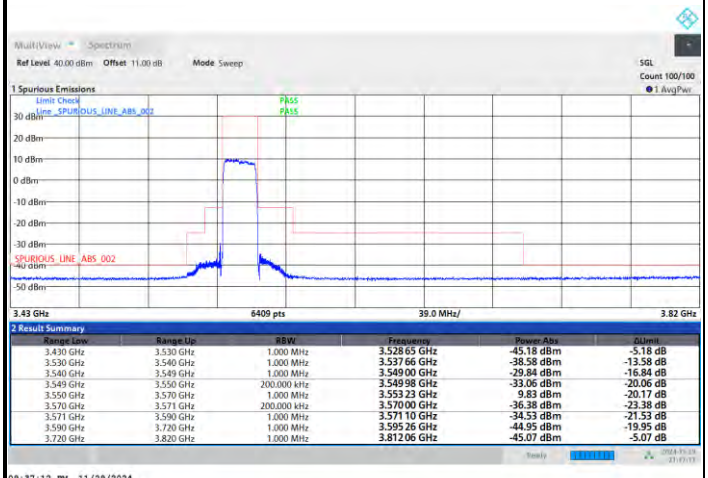
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.519 36 GHz	-45.27 dBm	-5.27 dB
3.530 GHz	3.590 GHz	1.000 MHz	3.589 19 GHz	-43.54 dBm	-18.54 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.607 87 GHz	-33.71 dBm	-20.71 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.609 95 GHz	-41.52 dBm	-28.52 dB
3.610 GHz	3.640 GHz	1.000 MHz	3.620 52 GHz	12.69 dBm	-17.31 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.640 55 GHz	-41.72 dBm	-28.72 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.641 28 GHz	-34.50 dBm	-21.50 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.663 57 GHz	-43.87 dBm	-18.87 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.810 36 GHz	-44.81 dBm	-4.81 dB

FR1 n48 / 20MHz / DFT-S OFDM / PI/2 BPSK	
Highest Channel	
Full RB	



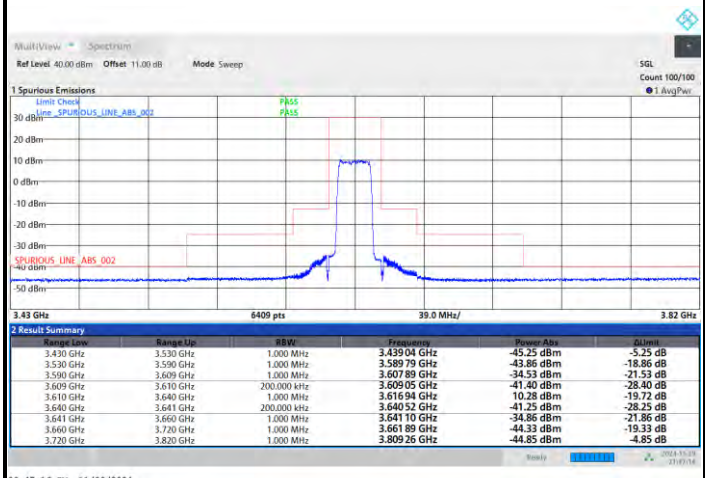
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.450 83 GHz	-45.43 dBm	-5.43 dB
3.530 GHz	3.660 GHz	1.000 MHz	3.659 42 GHz	-44.32 dBm	-19.32 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.678 93 GHz	-31.80 dBm	-18.80 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.679 98 GHz	-31.88 dBm	-18.88 dB
3.680 GHz	3.700 GHz	1.000 MHz	3.695 87 GHz	8.99 dBm	-21.01 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.700 02 GHz	-37.02 dBm	-24.02 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.701 11 GHz	-34.52 dBm	-21.52 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.712 01 GHz	-40.32 dBm	-15.32 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.721 25 GHz	-44.79 dBm	-4.79 dB

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



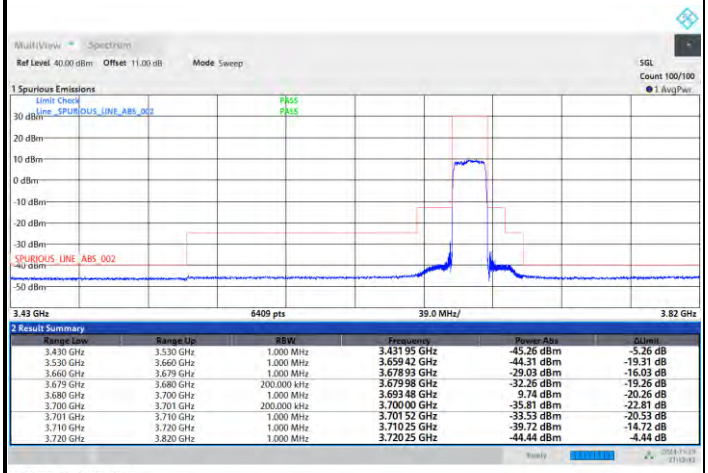
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.528 65 GHz	-45.18 dBm	-5.18 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.537 66 GHz	-38.58 dBm	-13.58 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.549 00 GHz	-29.84 dBm	-16.84 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.549 98 GHz	-33.06 dBm	-20.06 dB
3.550 GHz	3.570 GHz	1.000 MHz	3.553 23 GHz	9.83 dBm	-20.17 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.570 00 GHz	-36.38 dBm	-23.38 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.571 10 GHz	-34.53 dBm	-21.53 dB
3.590 GHz	3.720 GHz	1.000 MHz	3.595 26 GHz	-44.95 dBm	-19.95 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.812 06 GHz	-45.07 dBm	-5.07 dB

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



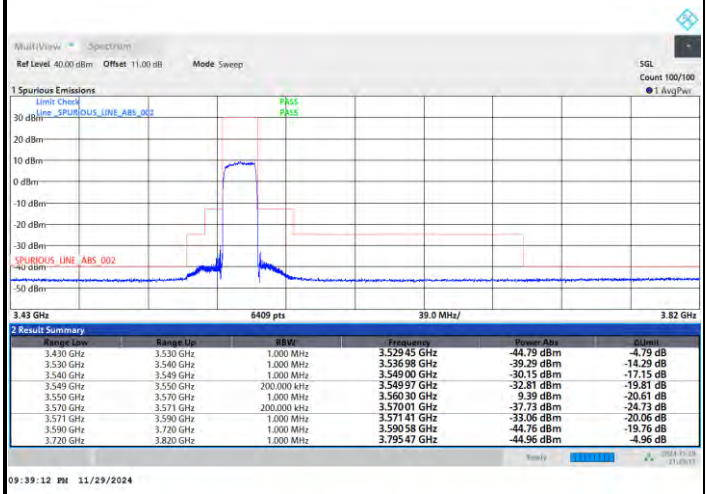
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.439 04 GHz	-45.25 dBm	-5.25 dB
3.530 GHz	3.590 GHz	1.000 MHz	3.589 79 GHz	-43.86 dBm	-18.86 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.607 89 GHz	-34.53 dBm	-21.53 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.609 05 GHz	-41.40 dBm	-28.40 dB
3.610 GHz	3.640 GHz	1.000 MHz	3.616 94 GHz	10.28 dBm	-19.72 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.640 52 GHz	-41.25 dBm	-28.25 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.641 10 GHz	-34.86 dBm	-21.86 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.661 89 GHz	-44.33 dBm	-19.33 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.809 26 GHz	-44.85 dBm	-4.85 dB

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



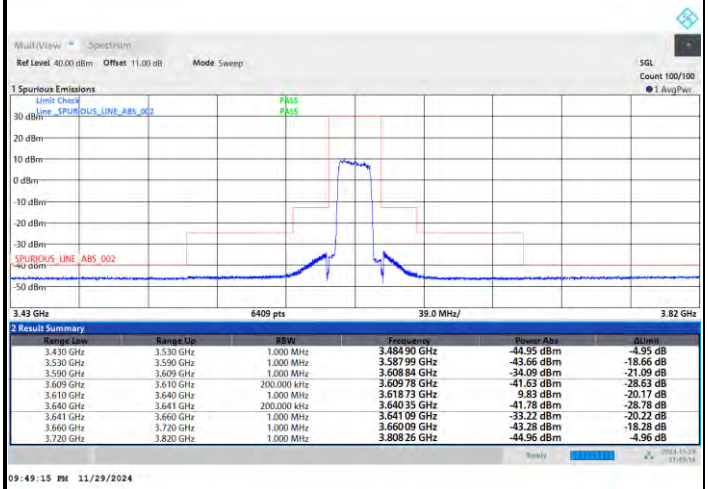
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.431 95 GHz	-45.26 dBm	-5.26 dB
3.530 GHz	3.660 GHz	1.000 MHz	3.659 42 GHz	-44.31 dBm	-19.31 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.678 93 GHz	-29.03 dBm	-16.03 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.679 98 GHz	-32.26 dBm	-19.26 dB
3.680 GHz	3.700 GHz	1.000 MHz	3.693 48 GHz	9.74 dBm	-20.26 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.700 00 GHz	-35.81 dBm	-22.81 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.701 52 GHz	-33.53 dBm	-20.53 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.710 25 GHz	-39.72 dBm	-14.72 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.720 25 GHz	-44.44 dBm	-4.44 dB

FR1 n48 / 20MHz / DFT-S OFDM / 16QAM	
Lowest Channel	
Full RB	



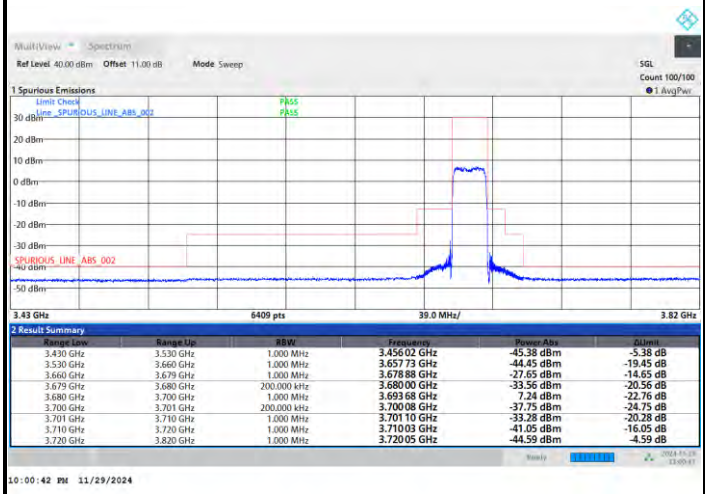
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.529 45 GHz	-44.79 dBm	-4.79 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.536 98 GHz	-39.29 dBm	-14.29 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.549 00 GHz	-30.15 dBm	-17.15 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.549 97 GHz	-32.81 dBm	-19.81 dB
3.550 GHz	3.570 GHz	1.000 MHz	3.560 30 GHz	9.39 dBm	-20.61 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.570 01 GHz	-37.73 dBm	-24.73 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.571 41 GHz	-33.06 dBm	-20.06 dB
3.590 GHz	3.720 GHz	1.000 MHz	3.590 58 GHz	-44.76 dBm	-19.76 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.795 47 GHz	-44.96 dBm	-4.96 dB

FR1 n48 / 20MHz / DFT-S OFDM / 16QAM	
Middle Channel	
Full RB	



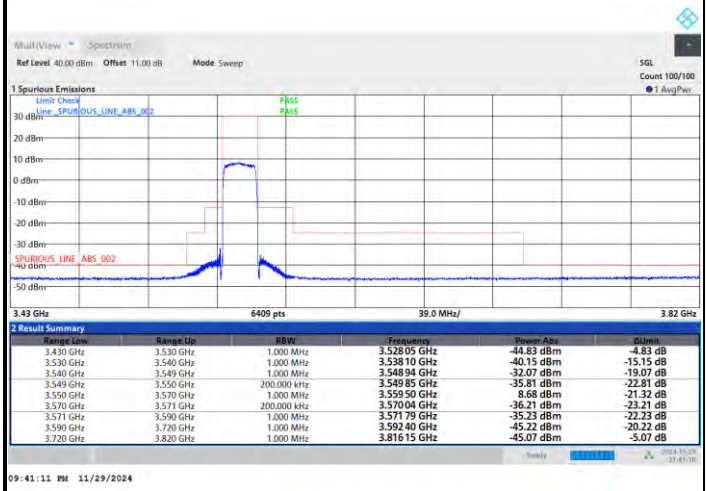
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.484 90 GHz	-44.95 dBm	-4.95 dB
3.530 GHz	3.590 GHz	1.000 MHz	3.587 99 GHz	-43.66 dBm	-18.66 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.608 84 GHz	-34.09 dBm	-21.09 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.609 78 GHz	-41.63 dBm	-28.63 dB
3.610 GHz	3.640 GHz	1.000 MHz	3.618 73 GHz	9.83 dBm	-20.17 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.640 35 GHz	-41.78 dBm	-28.78 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.641 09 GHz	-33.22 dBm	-20.22 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.660 09 GHz	-43.28 dBm	-18.28 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.808 26 GHz	-44.96 dBm	-4.96 dB

FR1 n48 / 20MHz / DFT-S OFDM / 16QAM	
Highest Channel	
Full RB	



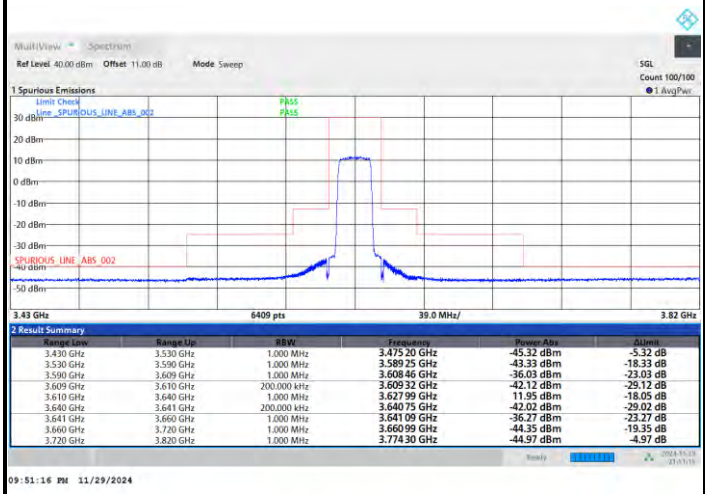
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.456 02 GHz	-45.38 dBm	-5.38 dB
3.530 GHz	3.660 GHz	1.000 MHz	3.657 73 GHz	-44.45 dBm	-19.45 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.678 88 GHz	-27.65 dBm	-14.65 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.680 00 GHz	-33.56 dBm	-20.56 dB
3.680 GHz	3.700 GHz	1.000 MHz	3.693 68 GHz	7.24 dBm	-22.76 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.700 08 GHz	-37.75 dBm	-24.75 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.701 10 GHz	-33.28 dBm	-20.28 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.710 03 GHz	-41.05 dBm	-16.05 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.720 05 GHz	-44.59 dBm	-4.59 dB

FR1 n48 / 20MHz / DFT-S OFDM / 64QAM	
Lowest Channel	
Full RB	



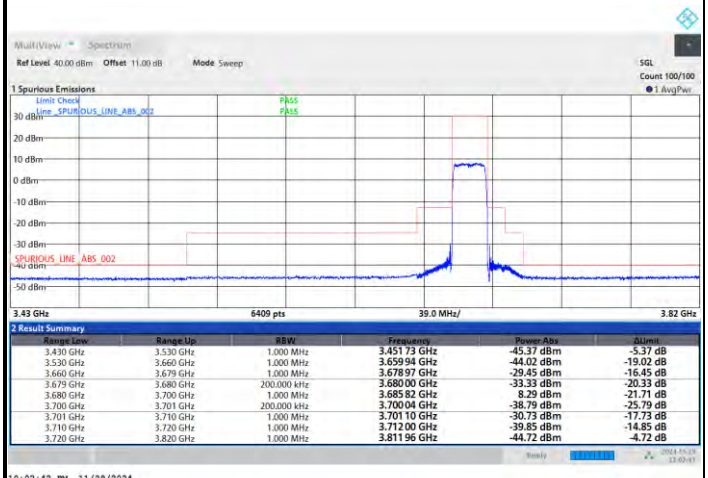
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.528 05 GHz	-44.83 dBm	-4.83 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.538 10 GHz	-40.15 dBm	-15.15 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 94 GHz	-32.07 dBm	-19.07 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.549 85 GHz	-35.81 dBm	-22.81 dB
3.550 GHz	3.570 GHz	1.000 MHz	3.559 50 GHz	8.68 dBm	-21.32 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.570 04 GHz	-36.21 dBm	-23.21 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.571 79 GHz	-35.23 dBm	-22.23 dB
3.590 GHz	3.720 GHz	1.000 MHz	3.592 40 GHz	-45.22 dBm	-20.22 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.816 15 GHz	-45.07 dBm	-5.07 dB

FR1 n48 / 20MHz / DFT-S OFDM / 64QAM	
Middle Channel	
Full RB	



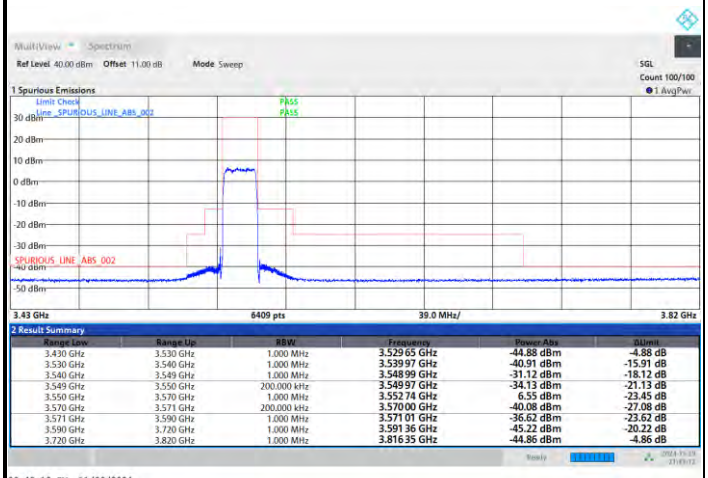
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.475 20 GHz	-45.32 dBm	-5.32 dB
3.530 GHz	3.590 GHz	1.000 MHz	3.589 25 GHz	-43.33 dBm	-18.33 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.608 46 GHz	-36.03 dBm	-23.03 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.609 32 GHz	-42.12 dBm	-29.12 dB
3.610 GHz	3.640 GHz	1.000 MHz	3.627 99 GHz	11.95 dBm	-18.05 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.640 75 GHz	-42.02 dBm	-29.02 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.641 09 GHz	-36.27 dBm	-23.27 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.660 99 GHz	-44.35 dBm	-19.35 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.774 30 GHz	-44.97 dBm	-4.97 dB

FR1 n48 / 20MHz / DFT-S OFDM / 64QAM	
Highest Channel	
Full RB	



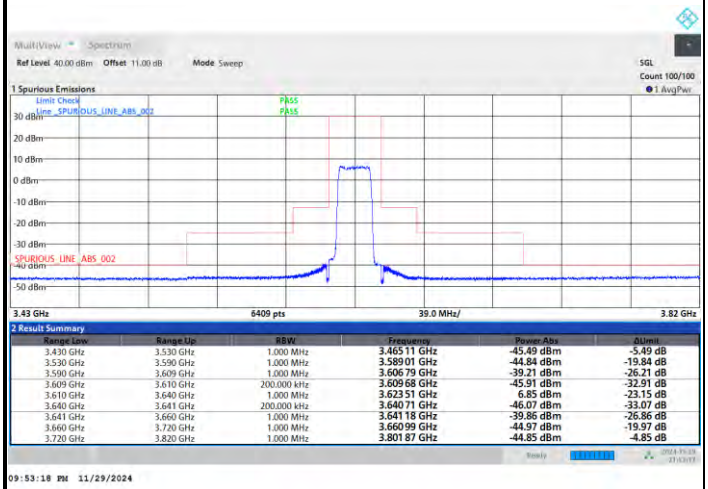
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.451 73 GHz	-45.37 dBm	-5.37 dB
3.530 GHz	3.660 GHz	1.000 MHz	3.659 94 GHz	-44.02 dBm	-19.02 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.678 97 GHz	-29.45 dBm	-16.45 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.680 00 GHz	-33.33 dBm	-20.33 dB
3.680 GHz	3.700 GHz	1.000 MHz	3.685 82 GHz	8.29 dBm	-21.71 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.700 04 GHz	-38.79 dBm	-25.79 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.701 10 GHz	-30.73 dBm	-17.73 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.712 00 GHz	-39.85 dBm	-14.85 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.811 96 GHz	-44.72 dBm	-4.72 dB

FR1 n48 / 20MHz / DFT-S OFDM / 256QAM	
Lowest Channel	
Full RB	



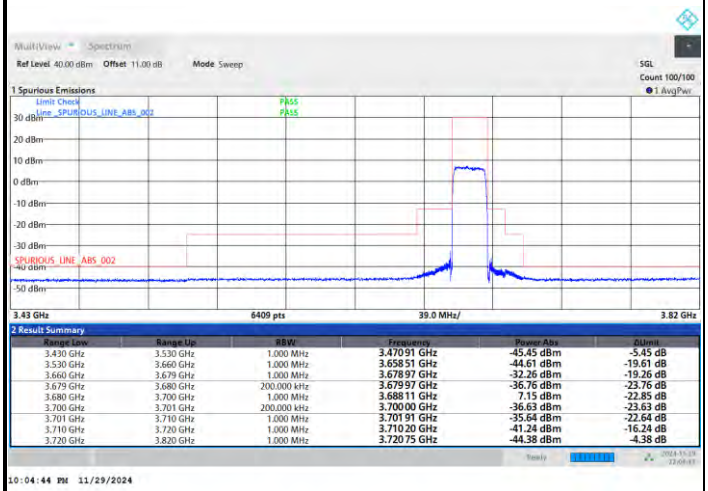
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.529 65 GHz	-44.88 dBm	-4.88 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.539 97 GHz	-40.91 dBm	-15.91 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 99 GHz	-31.12 dBm	-18.12 dB
3.549 GHz	3.550 GHz	200.000 kHz	3.549 97 GHz	-34.13 dBm	-21.13 dB
3.550 GHz	3.570 GHz	1.000 MHz	3.552 74 GHz	6.55 dBm	-23.45 dB
3.570 GHz	3.571 GHz	200.000 kHz	3.570 00 GHz	-40.08 dBm	-27.08 dB
3.571 GHz	3.590 GHz	1.000 MHz	3.571 01 GHz	-36.62 dBm	-23.62 dB
3.590 GHz	3.720 GHz	1.000 MHz	3.591 36 GHz	-45.22 dBm	-20.22 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.816 35 GHz	-44.86 dBm	-4.86 dB

FR1 n48 / 20MHz / DFT-S OFDM / 256QAM	
Middle Channel	
Full RB	



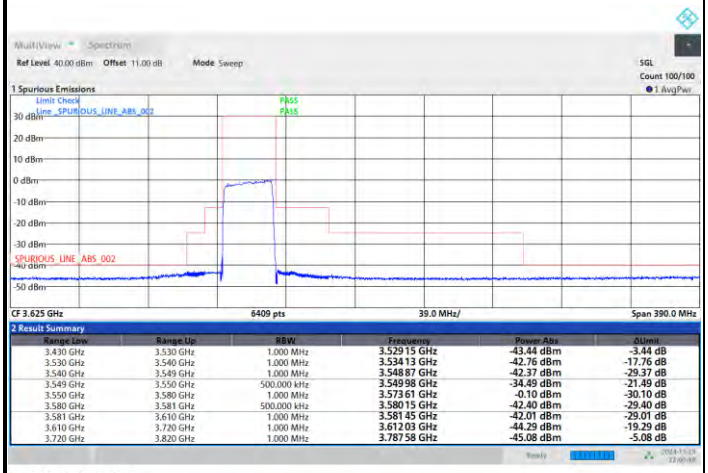
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.465 11 GHz	-45.49 dBm	-5.49 dB
3.530 GHz	3.590 GHz	1.000 MHz	3.589 01 GHz	-44.84 dBm	-19.84 dB
3.590 GHz	3.609 GHz	1.000 MHz	3.606 79 GHz	-39.21 dBm	-26.21 dB
3.609 GHz	3.610 GHz	200.000 kHz	3.609 68 GHz	-45.91 dBm	-32.91 dB
3.610 GHz	3.640 GHz	1.000 MHz	3.623 51 GHz	6.85 dBm	-23.15 dB
3.640 GHz	3.641 GHz	200.000 kHz	3.640 71 GHz	-46.07 dBm	-33.07 dB
3.641 GHz	3.660 GHz	1.000 MHz	3.641 18 GHz	-39.86 dBm	-26.86 dB
3.660 GHz	3.720 GHz	1.000 MHz	3.660 99 GHz	-44.97 dBm	-19.97 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.801 87 GHz	-44.85 dBm	-4.85 dB

FR1 n48 / 20MHz / DFT-S OFDM / 256QAM	
Highest Channel	
Full RB	



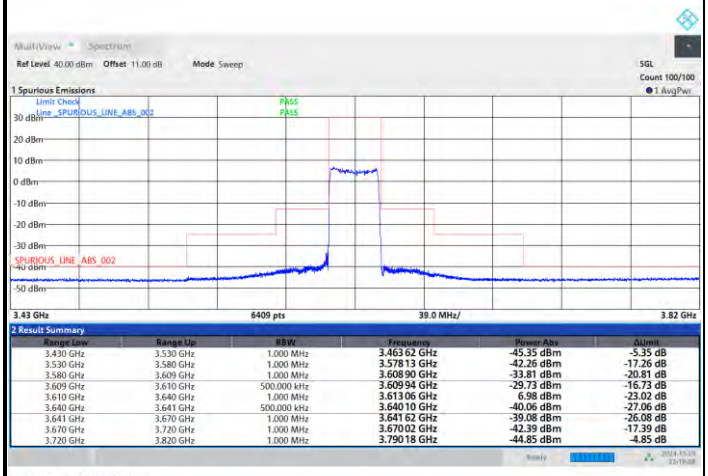
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.470 91 GHz	-45.45 dBm	-5.45 dB
3.530 GHz	3.660 GHz	1.000 MHz	3.658 51 GHz	-44.61 dBm	-19.61 dB
3.660 GHz	3.679 GHz	1.000 MHz	3.678 97 GHz	-32.26 dBm	-19.26 dB
3.679 GHz	3.680 GHz	200.000 kHz	3.679 97 GHz	-36.76 dBm	-23.76 dB
3.680 GHz	3.700 GHz	1.000 MHz	3.688 11 GHz	7.15 dBm	-22.85 dB
3.700 GHz	3.701 GHz	200.000 kHz	3.700 00 GHz	-36.63 dBm	-23.63 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.701 91 GHz	-35.64 dBm	-22.64 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.710 20 GHz	-41.24 dBm	-16.24 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.720 75 GHz	-44.38 dBm	-4.38 dB

FR1 n48 / 30MHz / DFT-S OFDM / PI/2 BPSK	
Lowest Channel	
Full RB	



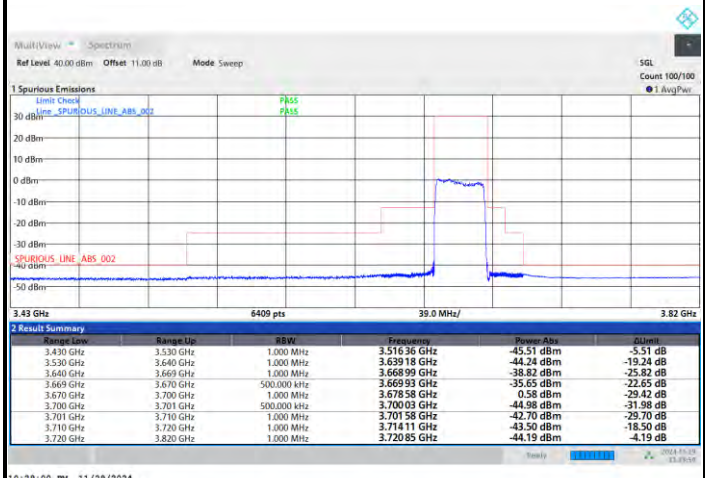
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.529 15 GHz	-43.44 dBm	-3.44 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.534 13 GHz	-42.76 dBm	-17.76 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 87 GHz	-42.37 dBm	-29.37 dB
3.549 GHz	3.550 GHz	500.000 kHz	3.549 98 GHz	-34.49 dBm	-21.49 dB
3.550 GHz	3.580 GHz	1.000 MHz	3.573 61 GHz	-0.10 dBm	-30.10 dB
3.580 GHz	3.581 GHz	500.000 kHz	3.580 15 GHz	-42.40 dBm	-29.40 dB
3.581 GHz	3.610 GHz	1.000 MHz	3.581 45 GHz	-42.01 dBm	-29.01 dB
3.610 GHz	3.720 GHz	1.000 MHz	3.612 03 GHz	-44.29 dBm	-19.29 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.787 58 GHz	-45.08 dBm	-5.08 dB

FR1 n48 / 30MHz / DFT-S OFDM / PI/2 BPSK	
Middle Channel	
Full RB	



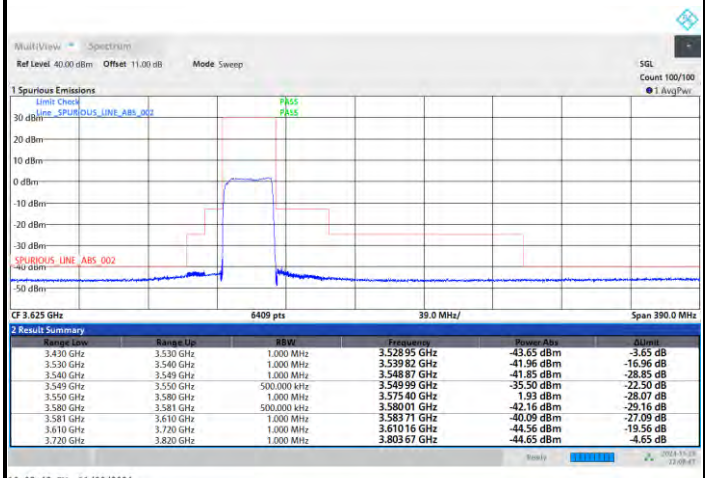
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.463 62 GHz	-45.35 dBm	-5.35 dB
3.530 GHz	3.580 GHz	1.000 MHz	3.578 13 GHz	-42.26 dBm	-17.26 dB
3.580 GHz	3.609 GHz	1.000 MHz	3.608 90 GHz	-33.81 dBm	-20.81 dB
3.609 GHz	3.610 GHz	500.000 kHz	3.609 94 GHz	-29.73 dBm	-16.73 dB
3.610 GHz	3.640 GHz	1.000 MHz	3.613 06 GHz	6.98 dBm	-23.02 dB
3.640 GHz	3.641 GHz	500.000 kHz	3.640 10 GHz	-40.06 dBm	-27.06 dB
3.641 GHz	3.670 GHz	1.000 MHz	3.641 62 GHz	-39.08 dBm	-26.08 dB
3.670 GHz	3.720 GHz	1.000 MHz	3.670 02 GHz	-42.39 dBm	-17.39 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.790 18 GHz	-44.85 dBm	-4.85 dB

FR1 n48 / 30MHz / DFT-S OFDM / PI/2 BPSK	
Highest Channel	
Full RB	



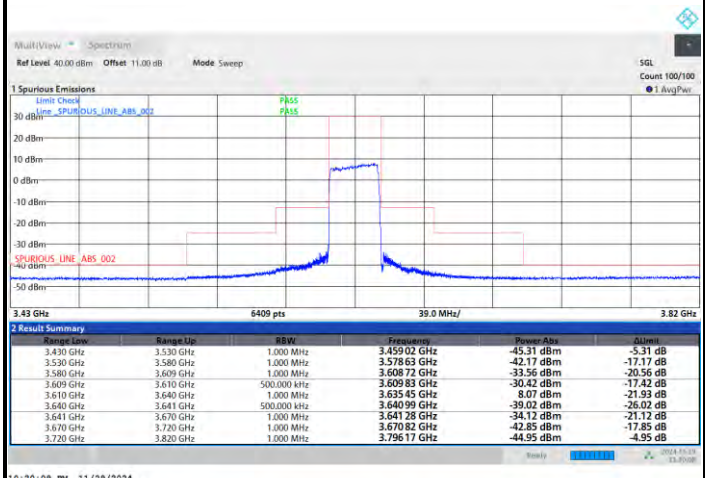
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.516 36 GHz	-45.51 dBm	-5.51 dB
3.530 GHz	3.640 GHz	1.000 MHz	3.639 18 GHz	-44.24 dBm	-19.24 dB
3.640 GHz	3.669 GHz	1.000 MHz	3.668 99 GHz	-38.82 dBm	-25.82 dB
3.669 GHz	3.670 GHz	500.000 kHz	3.669 93 GHz	-35.65 dBm	-22.65 dB
3.670 GHz	3.700 GHz	1.000 MHz	3.678 58 GHz	0.58 dBm	-29.42 dB
3.700 GHz	3.701 GHz	500.000 kHz	3.700 03 GHz	-44.98 dBm	-31.98 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.701 58 GHz	-42.70 dBm	-29.70 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.714 11 GHz	-43.50 dBm	-18.50 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.720 85 GHz	-44.19 dBm	-4.19 dB

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



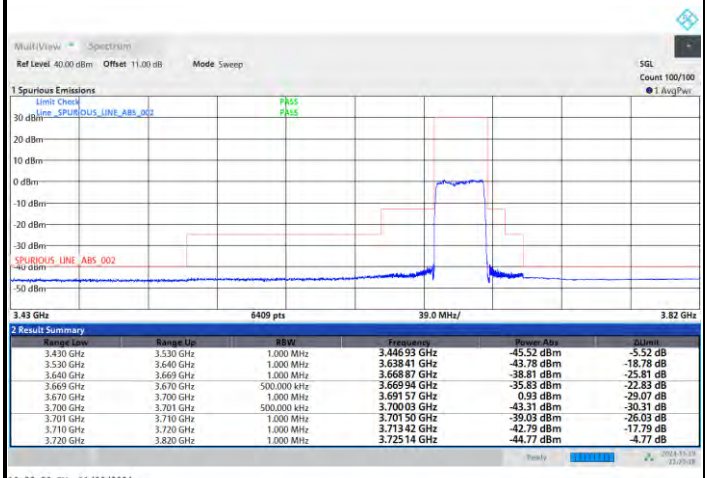
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.528 95 GHz	-43.65 dBm	-3.65 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.539 82 GHz	-41.96 dBm	-16.96 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 87 GHz	-41.85 dBm	-28.85 dB
3.549 GHz	3.550 GHz	500.000 kHz	3.549 99 GHz	-35.50 dBm	-22.50 dB
3.550 GHz	3.580 GHz	1.000 MHz	3.575 40 GHz	1.93 dBm	-28.07 dB
3.580 GHz	3.581 GHz	500.000 kHz	3.580 01 GHz	-42.16 dBm	-29.16 dB
3.581 GHz	3.610 GHz	1.000 MHz	3.583 71 GHz	-40.09 dBm	-27.09 dB
3.610 GHz	3.720 GHz	1.000 MHz	3.610 16 GHz	-44.56 dBm	-19.56 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.803 67 GHz	-44.65 dBm	-4.65 dB

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



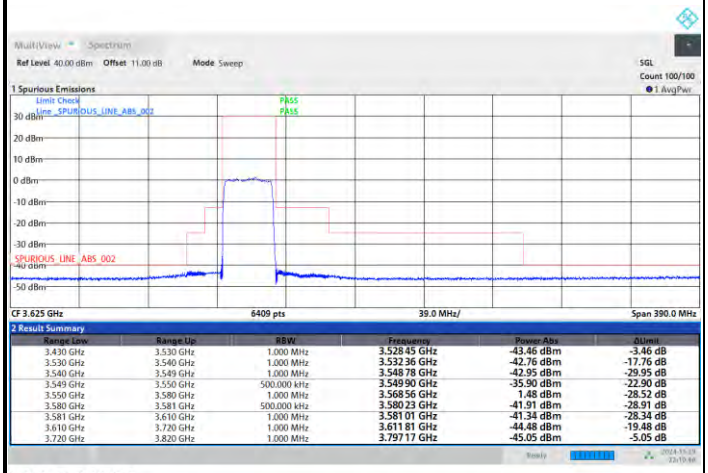
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.459 02 GHz	-45.31 dBm	-5.31 dB
3.530 GHz	3.580 GHz	1.000 MHz	3.578 63 GHz	-42.17 dBm	-17.17 dB
3.580 GHz	3.609 GHz	1.000 MHz	3.608 72 GHz	-33.56 dBm	-20.56 dB
3.609 GHz	3.610 GHz	500.000 kHz	3.609 83 GHz	-30.42 dBm	-17.42 dB
3.610 GHz	3.640 GHz	1.000 MHz	3.635 45 GHz	8.07 dBm	-21.93 dB
3.640 GHz	3.641 GHz	500.000 kHz	3.640 99 GHz	-39.02 dBm	-26.02 dB
3.641 GHz	3.670 GHz	1.000 MHz	3.641 28 GHz	-34.12 dBm	-21.12 dB
3.670 GHz	3.720 GHz	1.000 MHz	3.670 82 GHz	-42.85 dBm	-17.85 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.796 17 GHz	-44.95 dBm	-4.95 dB

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



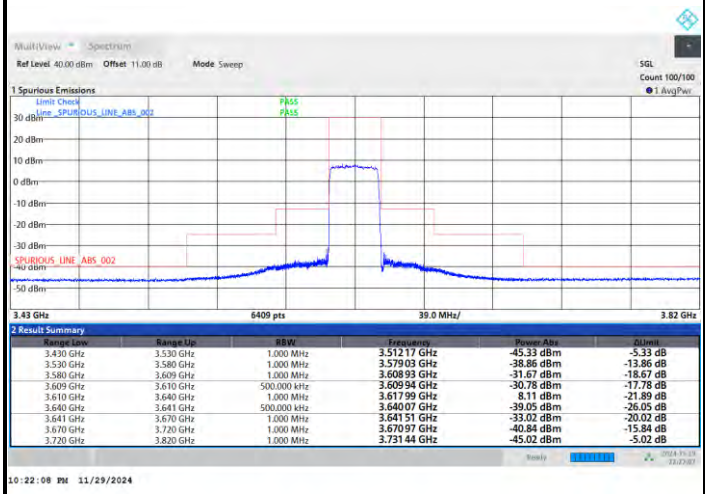
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.446 93 GHz	-45.52 dBm	-5.52 dB
3.530 GHz	3.640 GHz	1.000 MHz	3.638 41 GHz	-43.78 dBm	-18.78 dB
3.640 GHz	3.669 GHz	1.000 MHz	3.668 87 GHz	-38.81 dBm	-25.81 dB
3.669 GHz	3.670 GHz	500.000 kHz	3.669 94 GHz	-35.83 dBm	-22.83 dB
3.670 GHz	3.700 GHz	1.000 MHz	3.691 57 GHz	0.93 dBm	-29.07 dB
3.700 GHz	3.701 GHz	500.000 kHz	3.700 03 GHz	-43.31 dBm	-30.31 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.701 50 GHz	-39.03 dBm	-26.03 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.713 42 GHz	-42.79 dBm	-17.79 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.725 14 GHz	-44.77 dBm	-4.77 dB

FR1 n48 / 30MHz / DFT-S OFDM / 16QAM	
Lowest Channel	
Full RB	



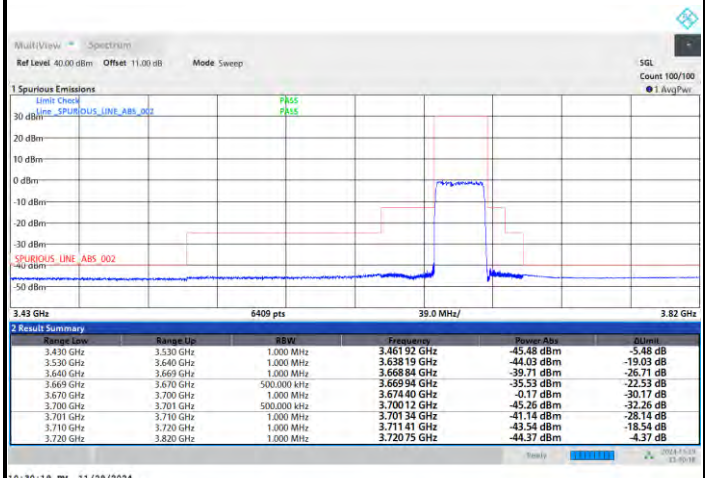
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.528 45 GHz	-43.46 dBm	-3.46 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.532 36 GHz	-42.76 dBm	-17.76 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 78 GHz	-42.95 dBm	-29.95 dB
3.549 GHz	3.550 GHz	500.000 kHz	3.549 90 GHz	-35.90 dBm	-22.90 dB
3.550 GHz	3.580 GHz	1.000 MHz	3.568 56 GHz	1.48 dBm	-28.52 dB
3.580 GHz	3.581 GHz	500.000 kHz	3.580 23 GHz	-41.91 dBm	-28.91 dB
3.581 GHz	3.610 GHz	1.000 MHz	3.581 01 GHz	-41.34 dBm	-28.34 dB
3.610 GHz	3.720 GHz	1.000 MHz	3.611 81 GHz	-44.48 dBm	-19.48 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.797 17 GHz	-45.05 dBm	-5.05 dB

FR1 n48 / 30MHz / DFT-S OFDM / 16QAM	
Middle Channel	
Full RB	



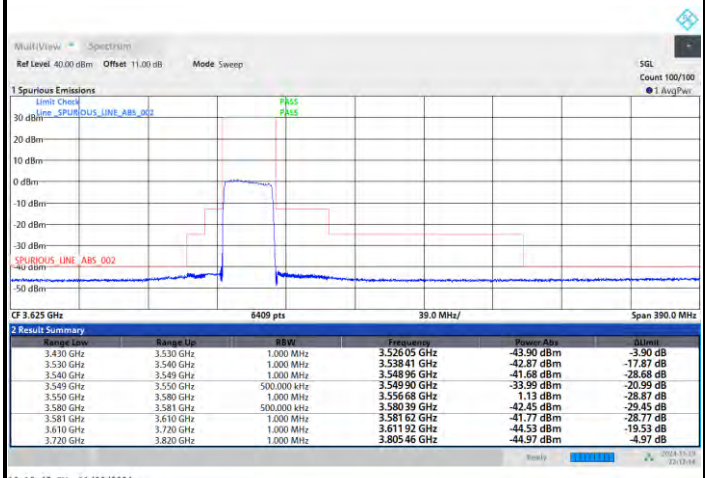
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.512 17 GHz	-45.33 dBm	-5.33 dB
3.530 GHz	3.580 GHz	1.000 MHz	3.579 03 GHz	-38.86 dBm	-13.86 dB
3.580 GHz	3.609 GHz	1.000 MHz	3.608 93 GHz	-31.67 dBm	-18.67 dB
3.609 GHz	3.610 GHz	500.000 kHz	3.609 94 GHz	-30.78 dBm	-17.78 dB
3.610 GHz	3.640 GHz	1.000 MHz	3.617 99 GHz	8.11 dBm	-21.89 dB
3.640 GHz	3.641 GHz	500.000 kHz	3.640 07 GHz	-39.05 dBm	-26.05 dB
3.641 GHz	3.670 GHz	1.000 MHz	3.641 51 GHz	-33.02 dBm	-20.02 dB
3.670 GHz	3.720 GHz	1.000 MHz	3.670 97 GHz	-40.84 dBm	-15.84 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.731 44 GHz	-45.02 dBm	-5.02 dB

FR1 n48 / 30MHz / DFT-S OFDM / 16QAM	
Highest Channel	
Full RB	



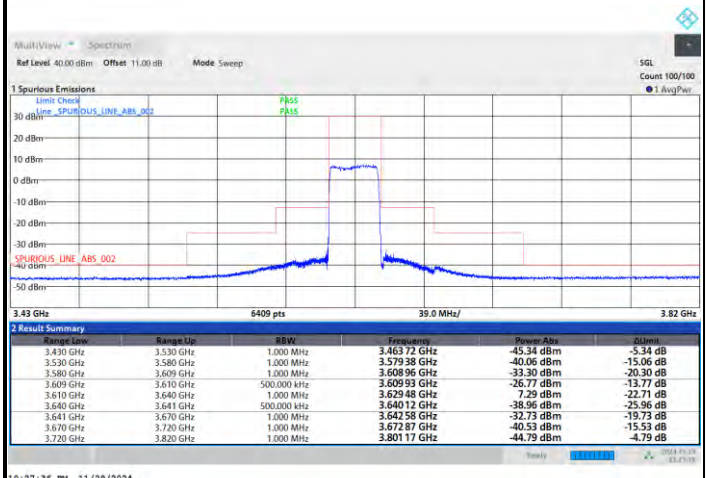
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.461 92 GHz	-45.48 dBm	-5.48 dB
3.530 GHz	3.640 GHz	1.000 MHz	3.638 19 GHz	-44.03 dBm	-19.03 dB
3.640 GHz	3.669 GHz	1.000 MHz	3.668 84 GHz	-39.71 dBm	-26.71 dB
3.669 GHz	3.670 GHz	500.000 kHz	3.669 94 GHz	-35.53 dBm	-22.53 dB
3.670 GHz	3.700 GHz	1.000 MHz	3.674 40 GHz	-0.17 dBm	-30.17 dB
3.700 GHz	3.701 GHz	500.000 kHz	3.700 12 GHz	-45.26 dBm	-32.26 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.701 34 GHz	-41.14 dBm	-28.14 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.711 41 GHz	-43.54 dBm	-18.54 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.720 75 GHz	-44.37 dBm	-4.37 dB

FR1 n48 / 30MHz / DFT-S OFDM / 64QAM	
Lowest Channel	
Full RB	



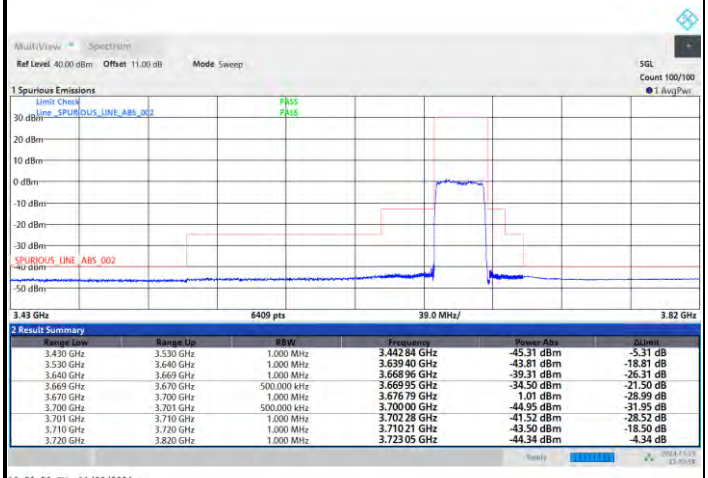
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.526 05 GHz	-43.90 dBm	-3.90 dB
3.530 GHz	3.540 GHz	1.000 MHz	3.538 41 GHz	-42.87 dBm	-17.87 dB
3.540 GHz	3.549 GHz	1.000 MHz	3.548 96 GHz	-41.68 dBm	-28.68 dB
3.549 GHz	3.550 GHz	500.000 kHz	3.549 90 GHz	-33.99 dBm	-20.99 dB
3.550 GHz	3.580 GHz	1.000 MHz	3.556 68 GHz	1.13 dBm	-28.87 dB
3.580 GHz	3.581 GHz	500.000 kHz	3.580 39 GHz	-42.45 dBm	-29.45 dB
3.581 GHz	3.610 GHz	1.000 MHz	3.581 62 GHz	-41.77 dBm	-28.77 dB
3.610 GHz	3.720 GHz	1.000 MHz	3.611 92 GHz	-44.53 dBm	-19.53 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.805 46 GHz	-44.97 dBm	-4.97 dB

FR1 n48 / 30MHz / DFT-S OFDM / 64QAM	
Middle Channel	
Full RB	



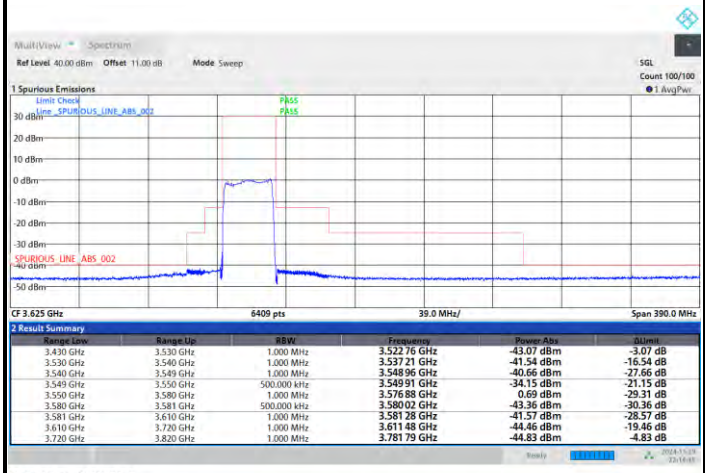
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.463 72 GHz	-45.34 dBm	-5.34 dB
3.530 GHz	3.580 GHz	1.000 MHz	3.579 38 GHz	-40.06 dBm	-15.06 dB
3.580 GHz	3.609 GHz	1.000 MHz	3.608 96 GHz	-33.30 dBm	-20.30 dB
3.609 GHz	3.610 GHz	500.000 kHz	3.609 93 GHz	-26.77 dBm	-13.77 dB
3.610 GHz	3.640 GHz	1.000 MHz	3.629 48 GHz	7.29 dBm	-22.71 dB
3.640 GHz	3.641 GHz	500.000 kHz	3.640 12 GHz	-38.96 dBm	-25.96 dB
3.641 GHz	3.670 GHz	1.000 MHz	3.642 58 GHz	-32.73 dBm	-19.73 dB
3.670 GHz	3.720 GHz	1.000 MHz	3.672 87 GHz	-40.53 dBm	-15.53 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.801 17 GHz	-44.79 dBm	-4.79 dB

FR1 n48 / 30MHz / DFT-S OFDM / 64QAM	
Highest Channel	
Full RB	

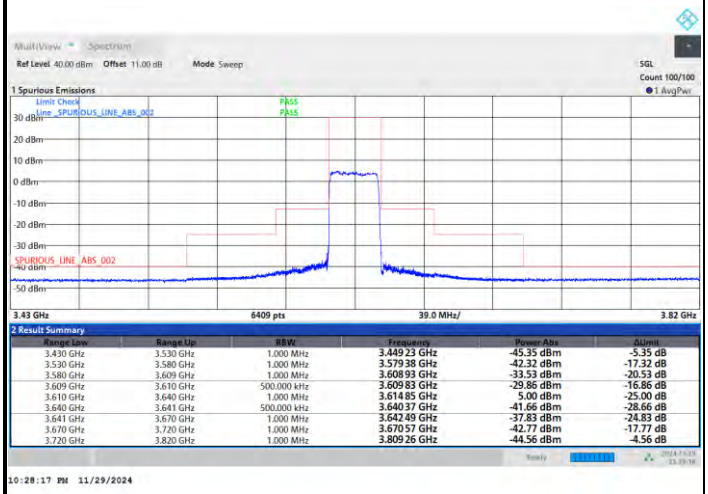


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.530 GHz	1.000 MHz	3.442 84 GHz	-45.31 dBm	-5.31 dB
3.530 GHz	3.640 GHz	1.000 MHz	3.639 40 GHz	-43.81 dBm	-18.81 dB
3.640 GHz	3.669 GHz	1.000 MHz	3.668 96 GHz	-39.31 dBm	-26.31 dB
3.669 GHz	3.670 GHz	500.000 kHz	3.669 95 GHz	-34.50 dBm	-21.50 dB
3.670 GHz	3.700 GHz	1.000 MHz	3.676 79 GHz	1.01 dBm	-28.99 dB
3.700 GHz	3.701 GHz	500.000 kHz	3.700 00 GHz	-44.95 dBm	-31.95 dB
3.701 GHz	3.710 GHz	1.000 MHz	3.702 28 GHz	-41.52 dBm	-28.52 dB
3.710 GHz	3.720 GHz	1.000 MHz	3.710 21 GHz	-43.50 dBm	-18.50 dB
3.720 GHz	3.820 GHz	1.000 MHz	3.723 05 GHz	-44.34 dBm	-4.34 dB

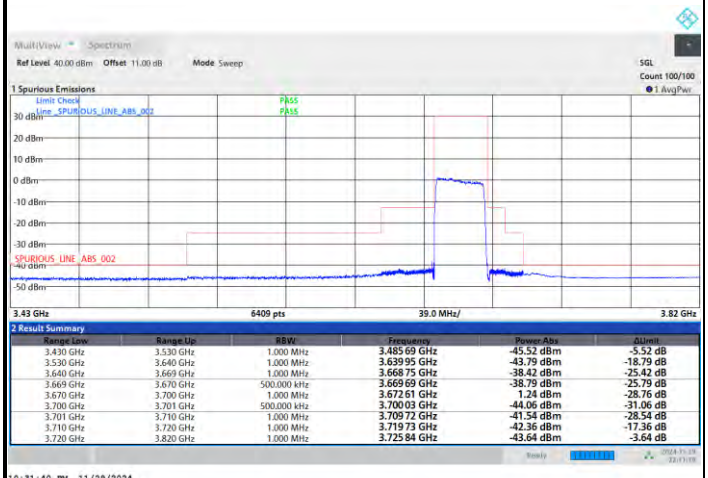
FR1 n48 / 30MHz / DFT-S OFDM / 256QAM	
Lowest Channel	
Full RB	



FR1 n48 / 30MHz / DFT-S OFDM / 256QAM	
Middle Channel	
Full RB	



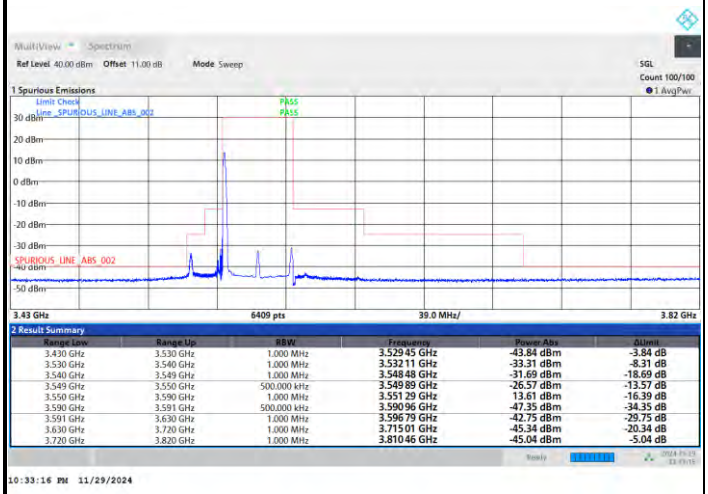
FR1 n48 / 30MHz / DFT-S OFDM / 256QAM	
Highest Channel	
Full RB	



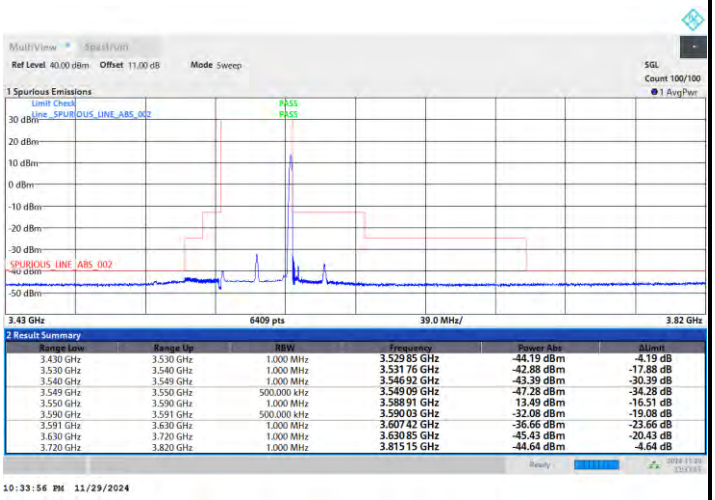
FR1 n48 / 40MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel

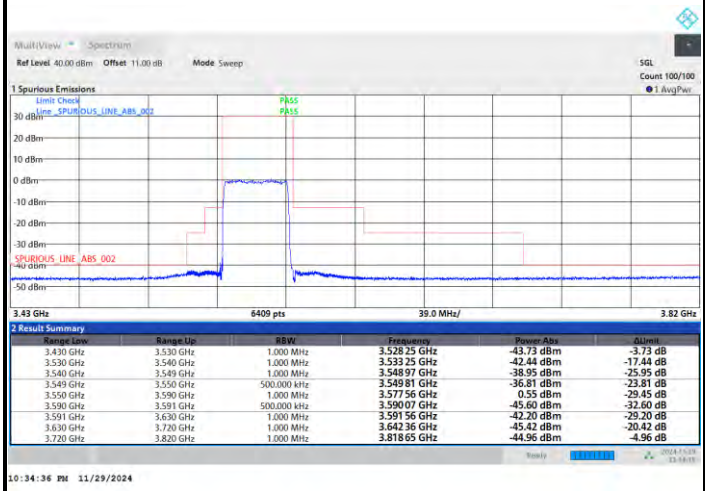
1RB0



1RBmax



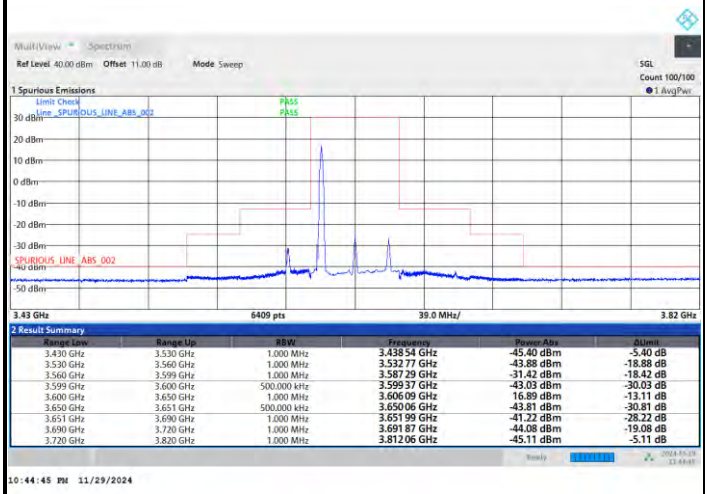
Full RB



FR1 n48 / 40MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

1RB0



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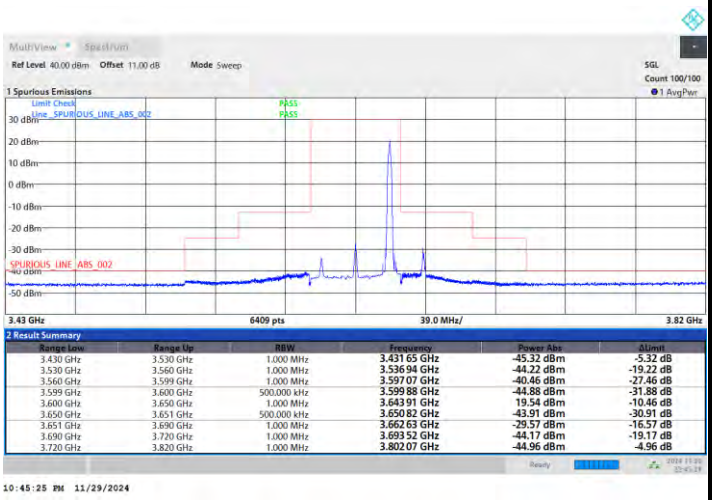
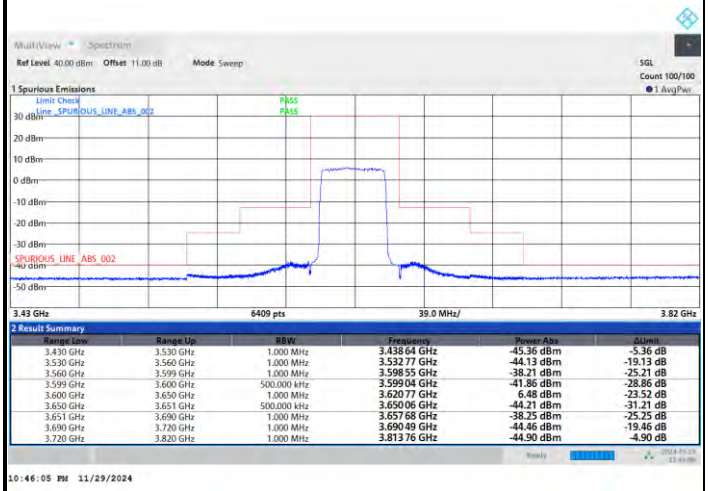


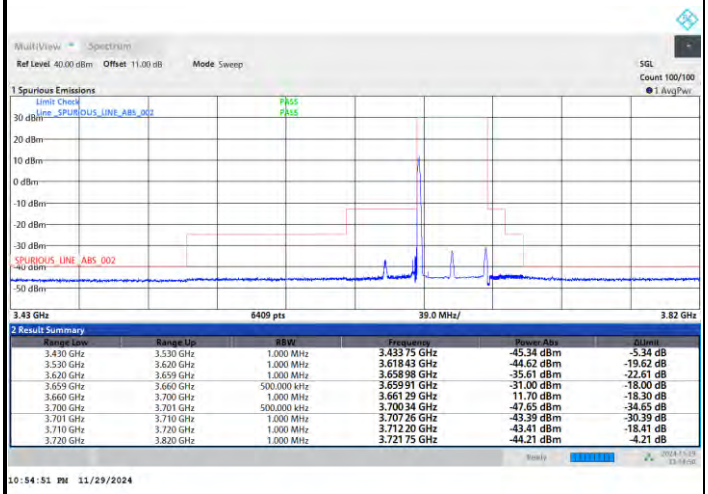
Full RB



FR1 n48 / 40MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

1RB0



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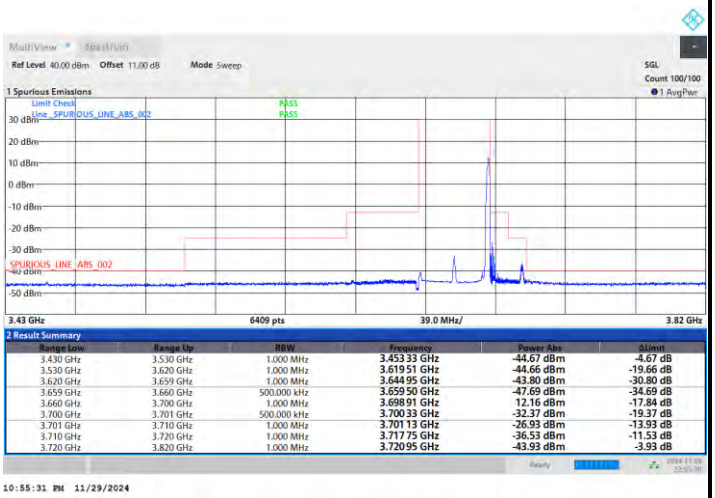
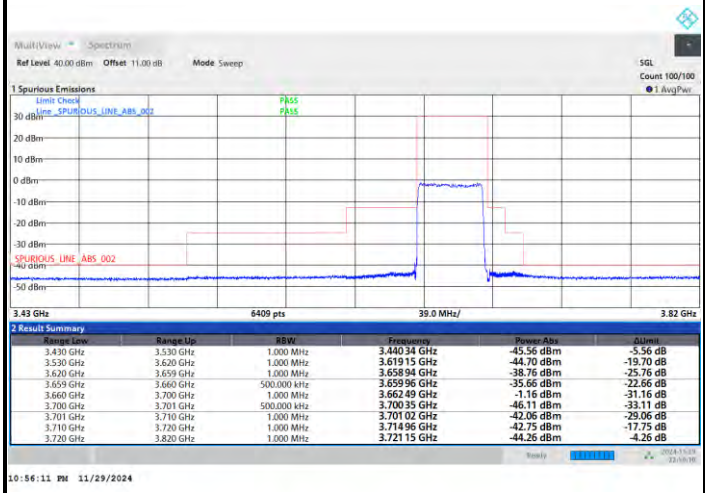


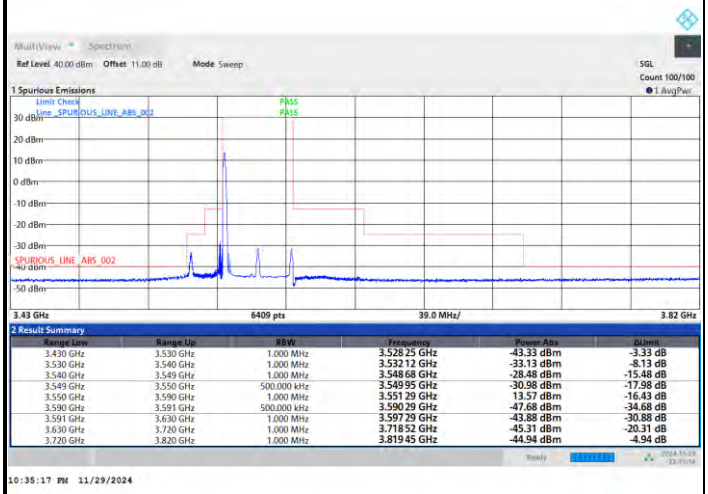
Full RB



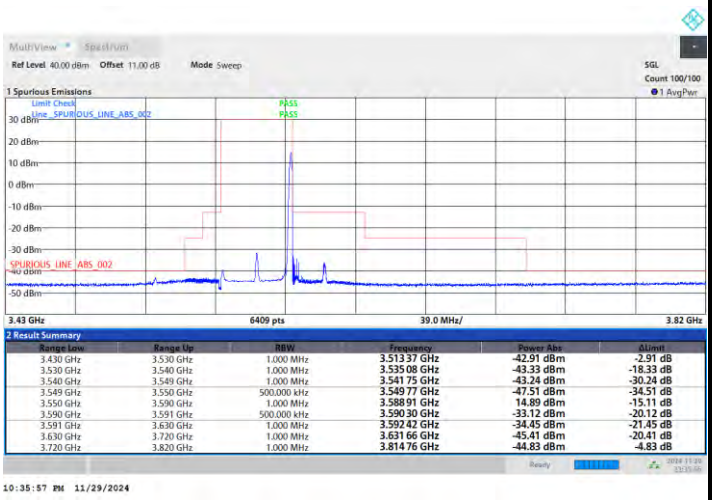
FR1 n48 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel

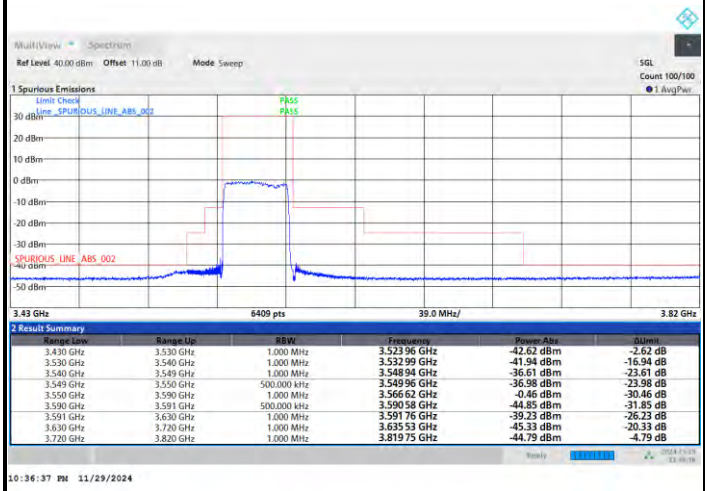
1RB0



1RBmax



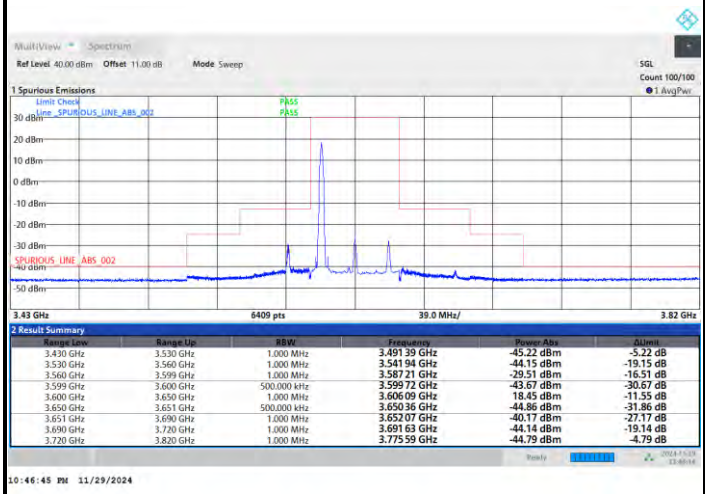
Full RB



FR1 n48 / 40MHz / DFT-S OFDM / QPSK

Middle Channel

1RB0



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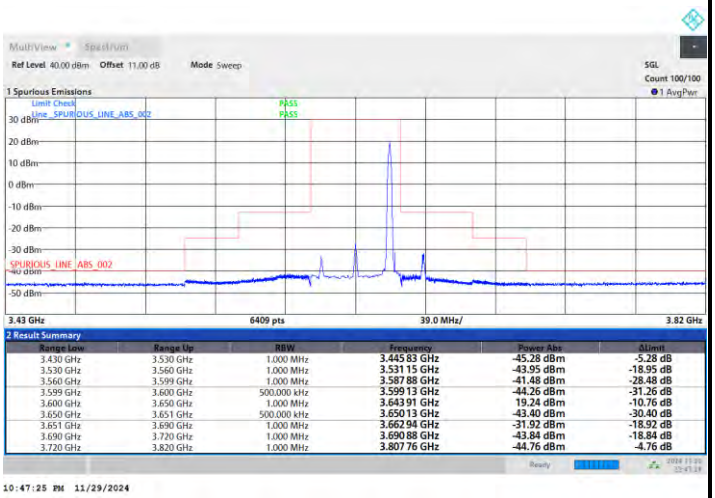
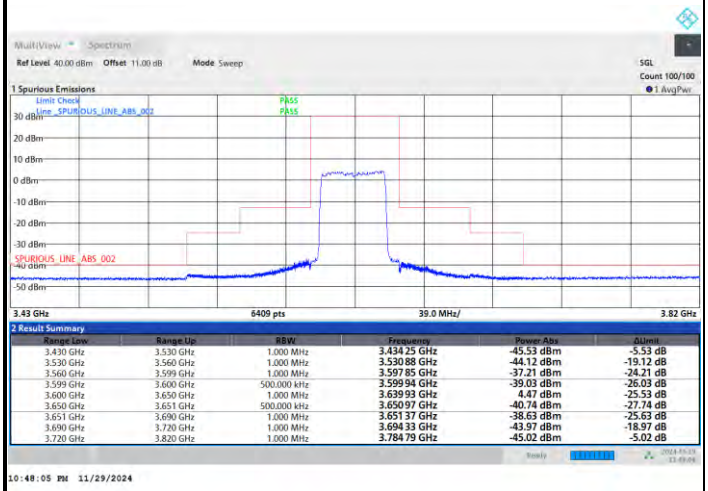


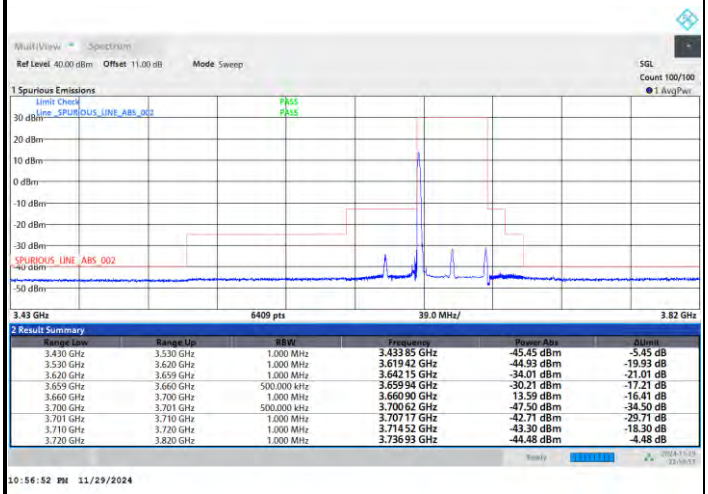
Full RB



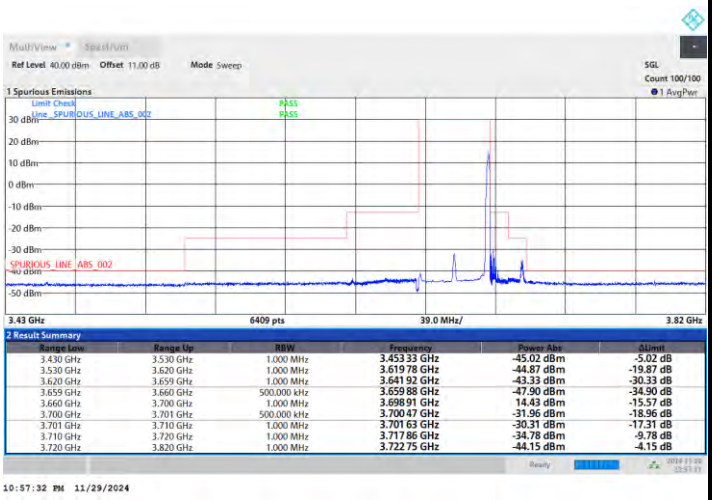
FR1 n48 / 40MHz / DFT-S OFDM / QPSK

Highest Channel

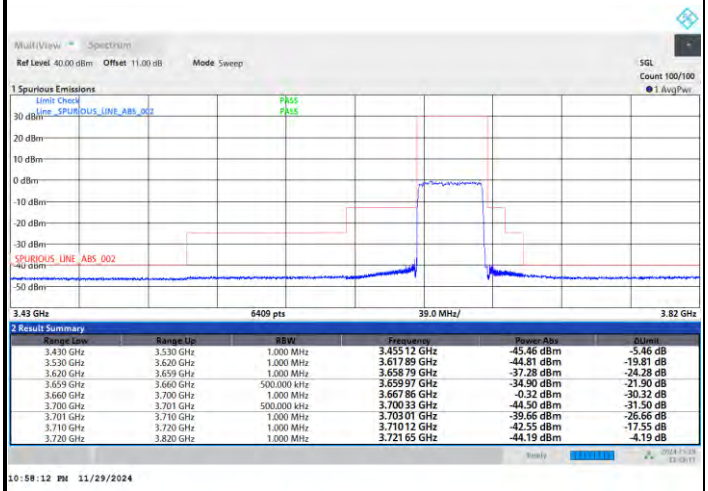
1RB0



1RBmax



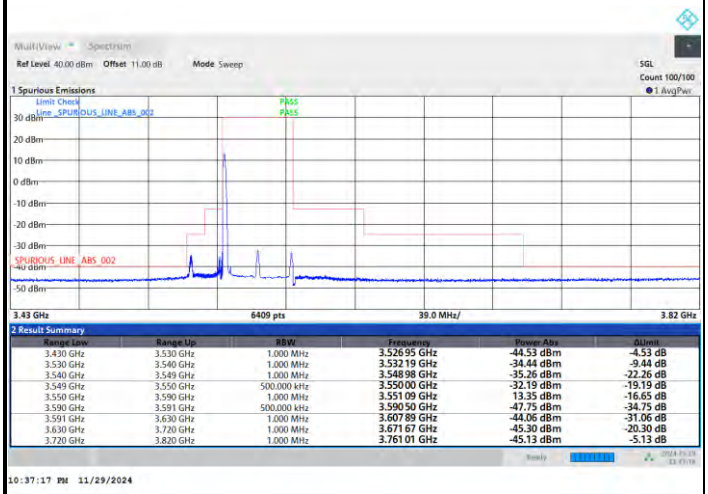
Full RB



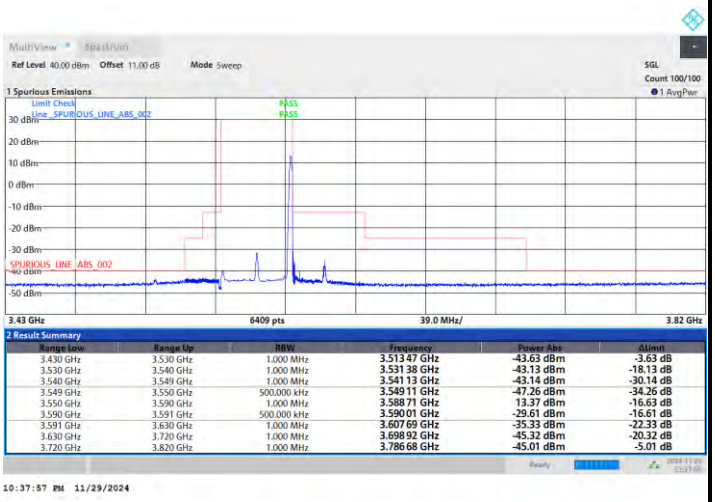
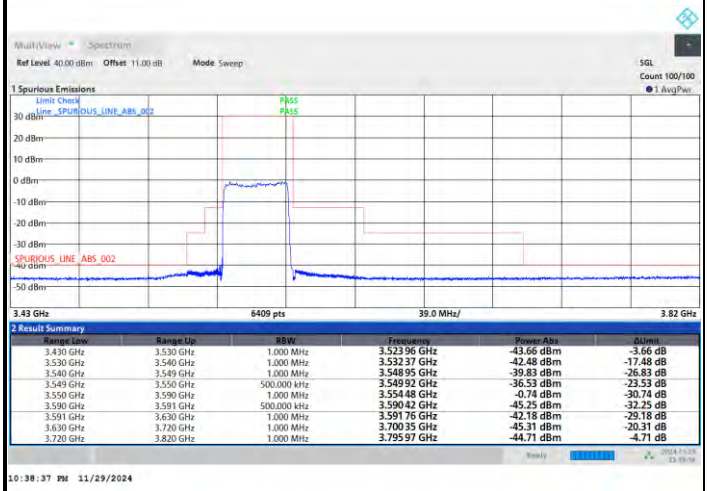
FR1 n48 / 40MHz / DFT-S OFDM / 16QAM

Lowest Channel

1RB0



1RBmax



Full RB