

**3.3 6 dB BANDWIDTH MEASUREMENT****3.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT**

The minimum 6dB Bandwidth Measurement is 0.5 MHz.

3.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	R&S	ESW 44	101973	Mar.28,24	Mar.27,26
Open Switch and Control Unit	R&S	OSP-B157W8	100836	N/A	N/A
Vector Signal Generator	R&S	SMBV100B	102176	Mar.29,24	Mar.28,26
Signal Generator	R&S	SMB100A03	182185	Mar.29,24	Mar.28,26
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.19,24	Jun.18,26
Hygrothermograph	DELI	20210528	SZ015	Mar.18,25	Mar.17,27
PC	LENOVO	E14	HRSW0024	N/A	N/A
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.26,25	Apr.25,26
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.26,25	Apr.25,26
Test Software	EMC32	EMC32	N/A	N/A	N/A
Temperature Chamber	votsch	VT4002	58566078100050	May.30,24	May.29,26
Power Meter	R&S	NRX	102380	Mar.28,24	Mar.27,26
Power Meter probe	R&S	NRP6A	102942	Mar.28,24	Mar.27,26

NOTE:

1. The calibration interval of the above test instruments is 12/ 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.



3.3.3 TEST PROCEDURE

In accordance with ANSI C63.10-2020 11.8.1 Option 1:

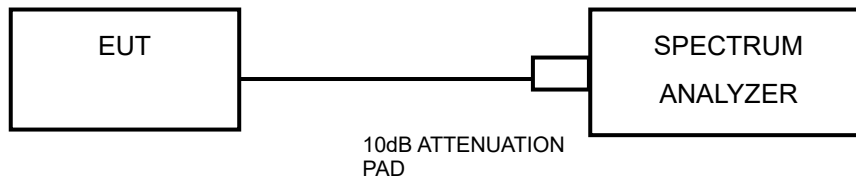
- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB downamplitude” value, then it shall be as close as possible to this value.



3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

3.3.5 TEST SETUP



3.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.3.7 TEST RESULTS

Please Refer to Appendix A&B Of this test report.

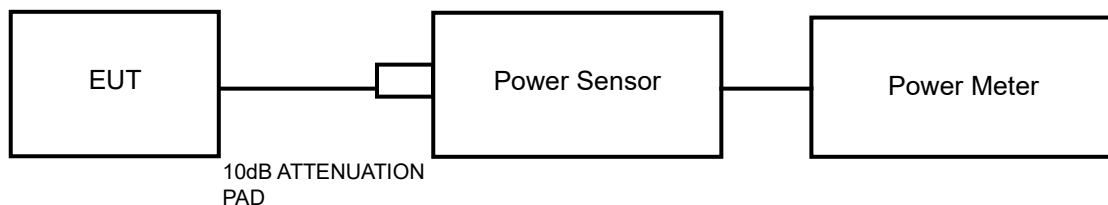


3.4 CONDUCTED OUTPUT POWER

3.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm)

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.4.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



3.4.7 TEST RESULTS

3.4.7.1 MAXIMUM PEAK OUTPUT POWER

Please Refer to Appendix A&B Of this test report.



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3.4.7.2 AVERAGE OUTPUT POWER (FOR REFERENCE)

The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

Please Refer to Appendix A&B Of this test report.

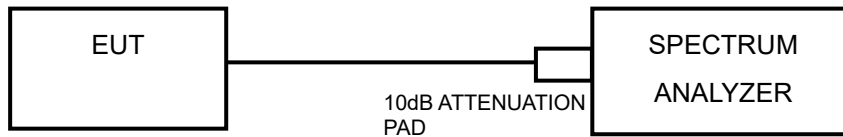


3.5 POWER SPECTRAL DENSITY MEASUREMENT

3.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.5.4 TEST PROCEDURE

1. Set the span > 1.5 times the DTS bandwidth
2. Set the RBW = 3 kHz, VBW $\geq 3 \times$ RBW, Detector = peak.
3. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

3.5.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



Please Refer to Appendix A&B Of this test report.

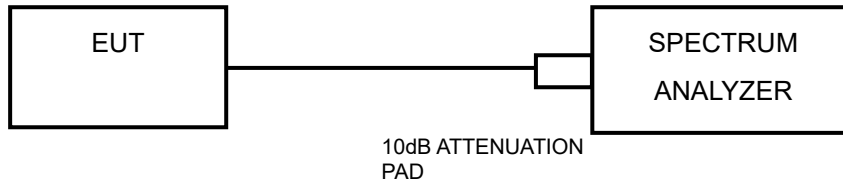


3.6 OUT OF BAND EMISSION MEASUREMENT

3.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

3.6.2 TEST SETUP



3.6.3 TEST INSTRUMENTS

Refer to section 3.3.2 to get information of above instrument.

3.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.



MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

3.6.5 DEVIATION FROM TEST STANDARD

No deviation.

3.6.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.6.7 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level. D2 line indicates the 20dB offset below D1. It shows compliance to the requirement.

Please Refer to Appendix A&B Of this test report.



3.7 ANTENNA REQUIREMENTS

3.7.1 STANDARD APPLICABLE

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.7.2 ANTENNA CONNECTED CONSTRUCTION

An embedded-in antenna design is used.

3.7.3 ANTENNA GAIN

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit and PSD limit.



4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

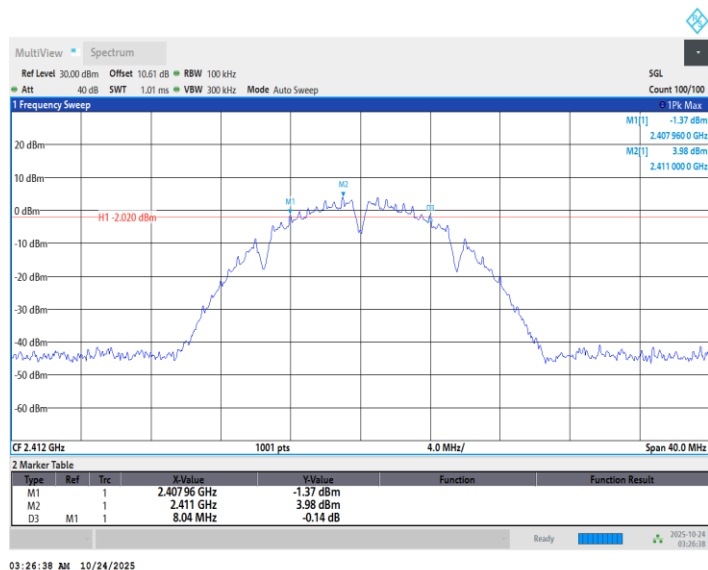
No any modifications are made to the EUT by the lab during the test.

**6 APPENDIX A:WIFI****DTS BANDWIDTH****TEST RESULT**

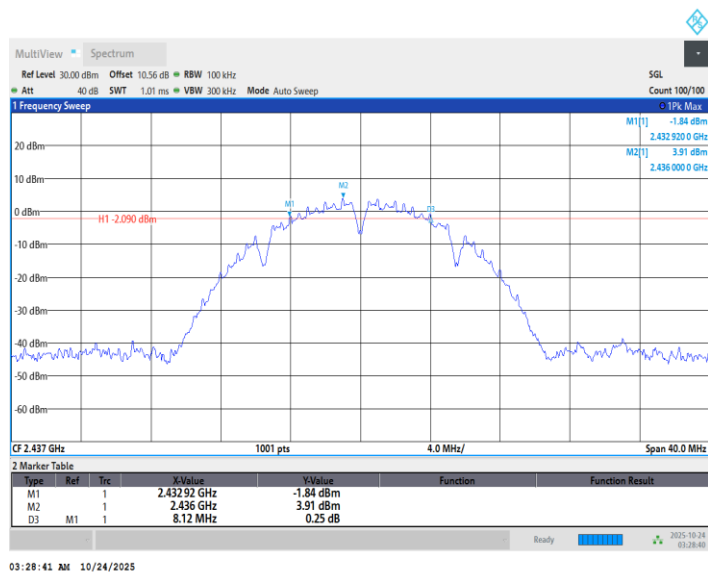
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.04	2407.96	2416.00	0.5	PASS
		2437	8.12	2432.92	2441.04	0.5	PASS
		2462	8.08	2457.92	2466.00	0.5	PASS
11G	Ant1	2412	15.68	2404.20	2419.88	0.5	PASS
		2437	14.24	2430.64	2444.88	0.5	PASS
		2462	12.12	2454.08	2466.20	0.5	PASS
11N20SISO	Ant1	2412	16.40	2404.08	2420.48	0.5	PASS
		2437	16.72	2428.60	2445.32	0.5	PASS
		2462	12.20	2453.56	2465.76	0.5	PASS



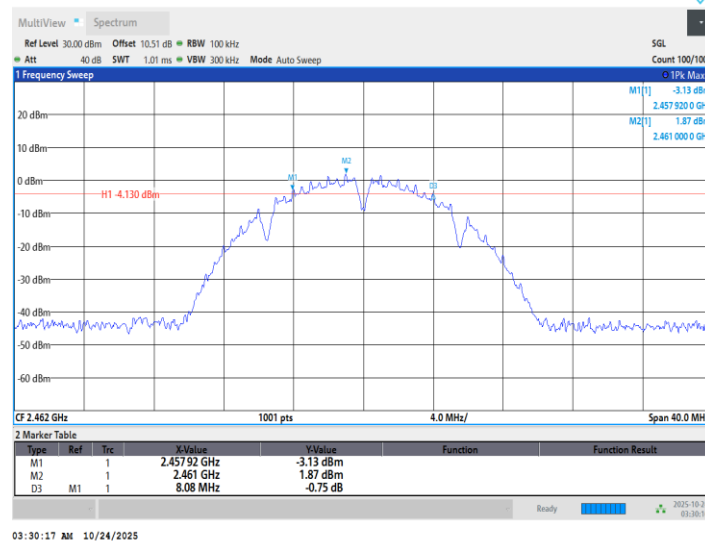
11B_Ant1_2412



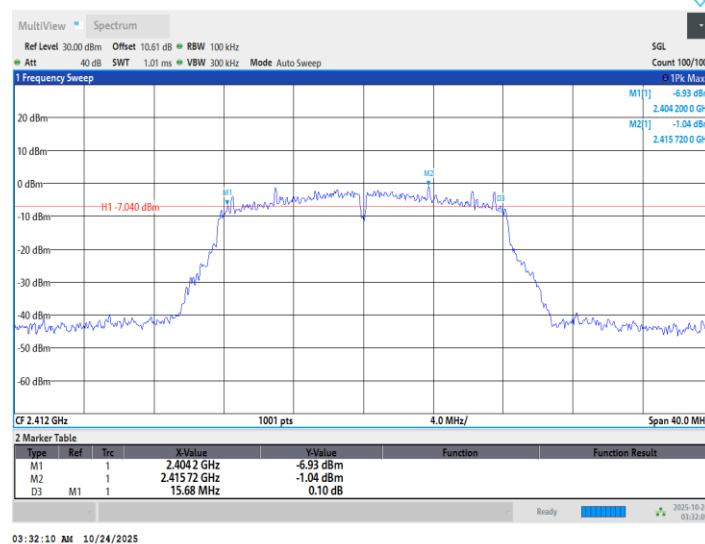
11B_Ant1_2437



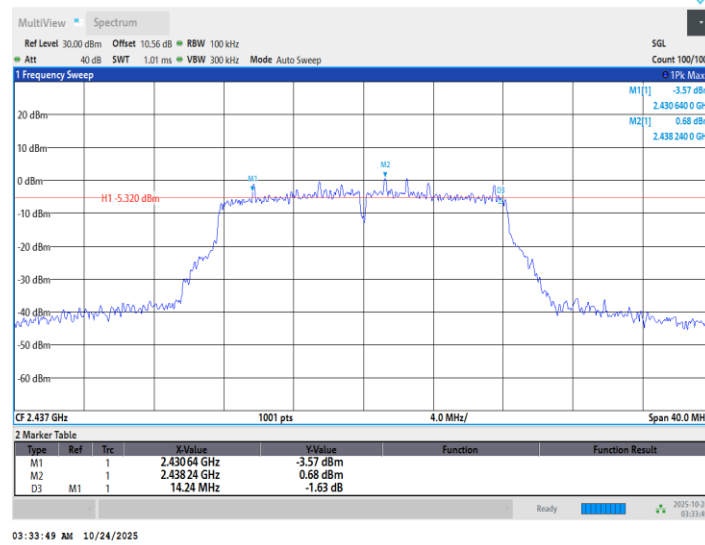
11B_Ant1_2462



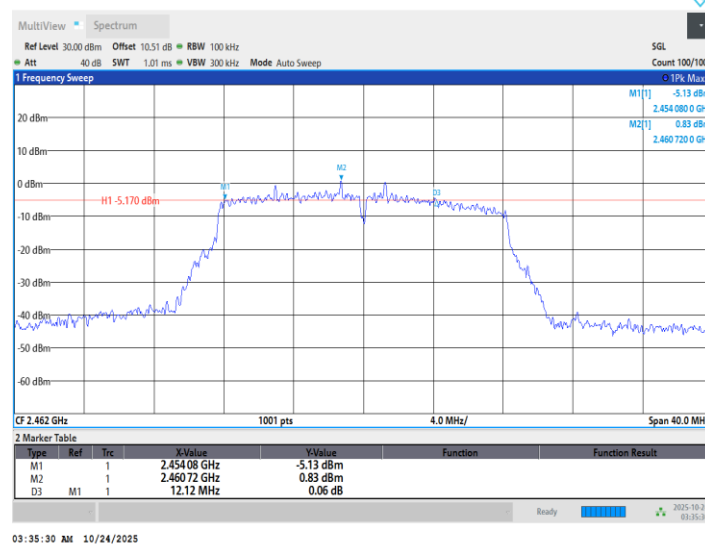
11G_Ant1_2412



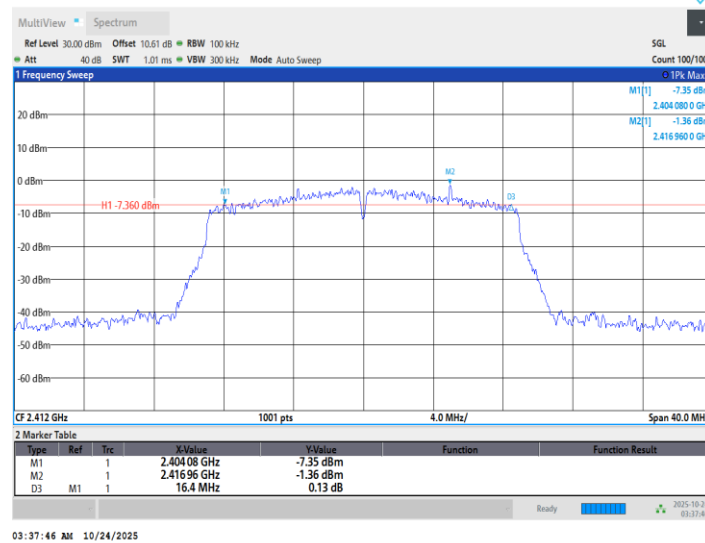
11G_Ant1_2437



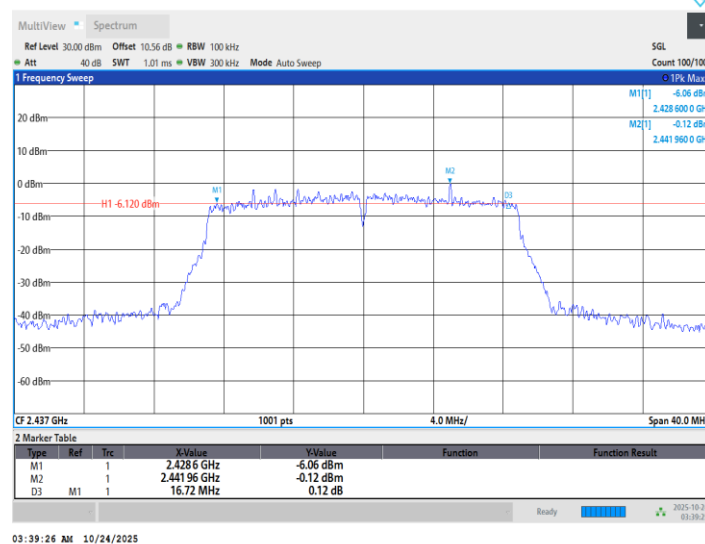
11G_Ant1_2462



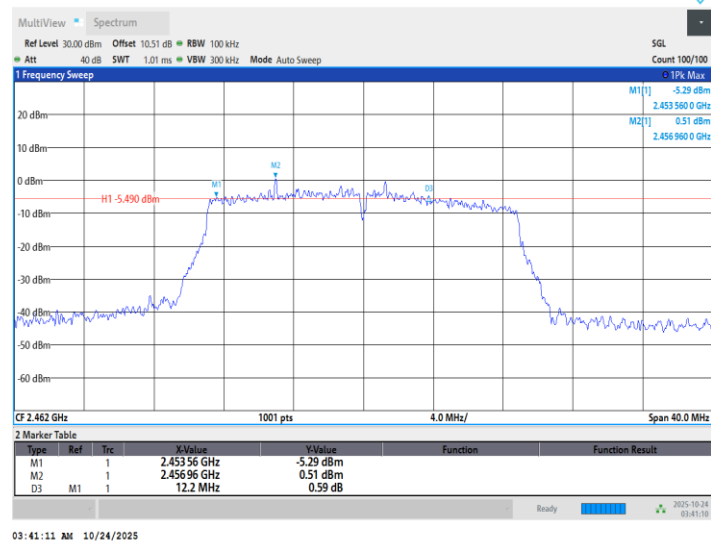
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

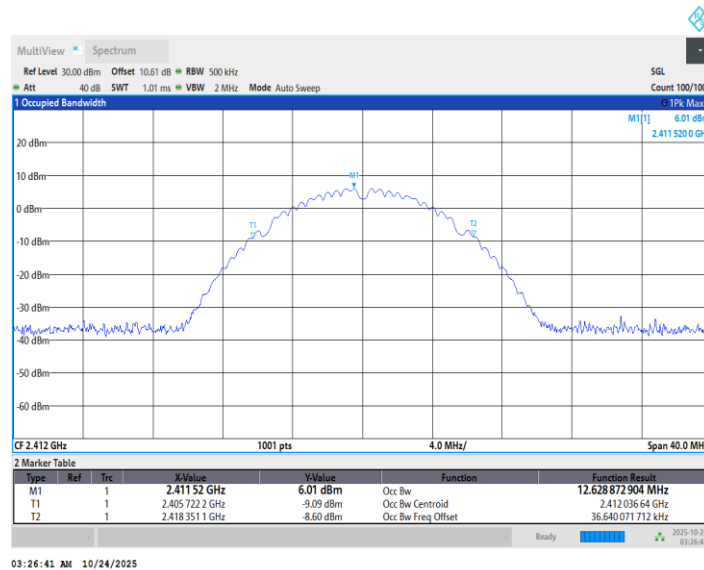


**OCCUPIED CHANNEL BANDWIDTH****TEST RESULT**

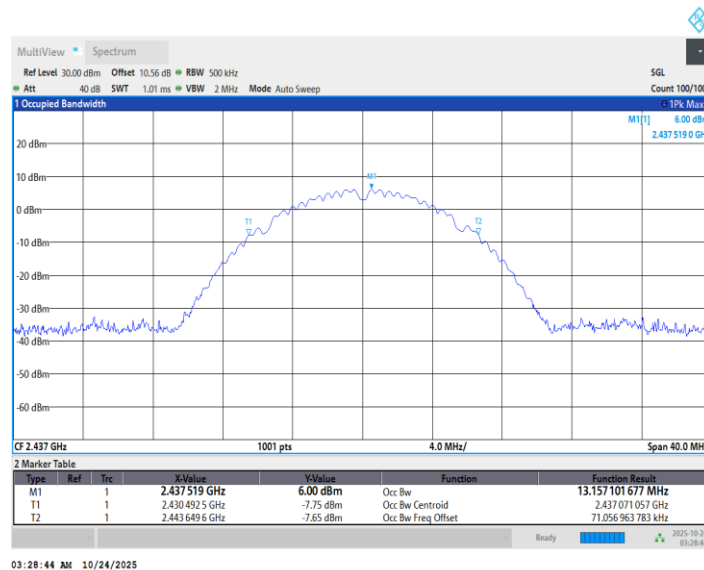
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.629	2405.7222	2418.3511	---	---
		2437	13.157	2430.4925	2443.6496	---	---
		2462	12.959	2455.3208	2468.2794	---	---
11G	Ant1	2412	16.718	2403.7242	2420.4423	---	---
		2437	17.173	2428.4770	2445.6500	---	---
		2462	17.025	2453.2961	2470.3214	---	---
11N20SISO	Ant1	2412	17.648	2403.2351	2420.8831	---	---
		2437	17.980	2428.0787	2446.0588	---	---
		2462	17.834	2452.9302	2470.7639	---	---



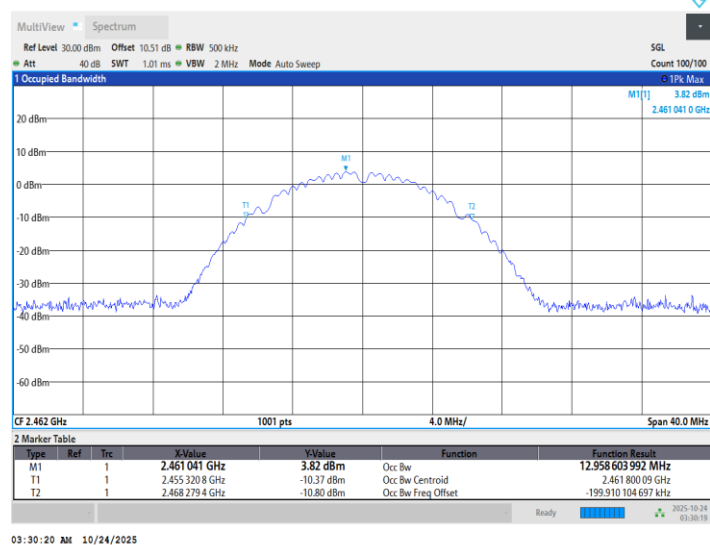
11B_Ant1_2412



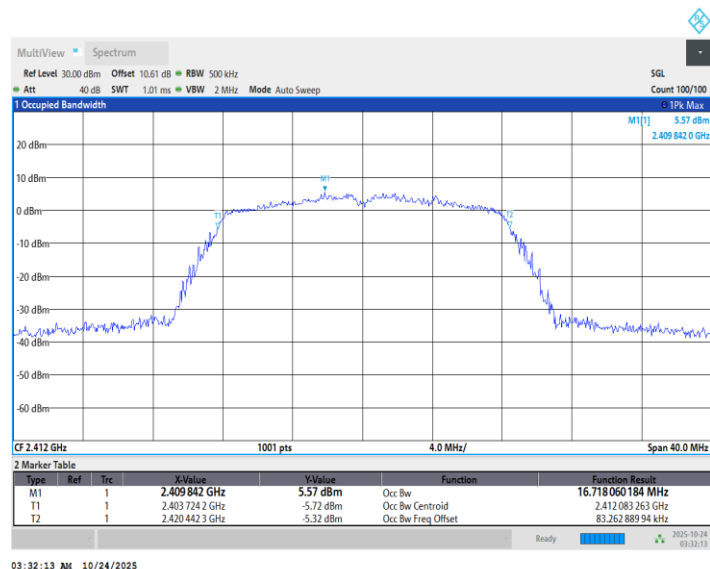
11B_Ant1_2437



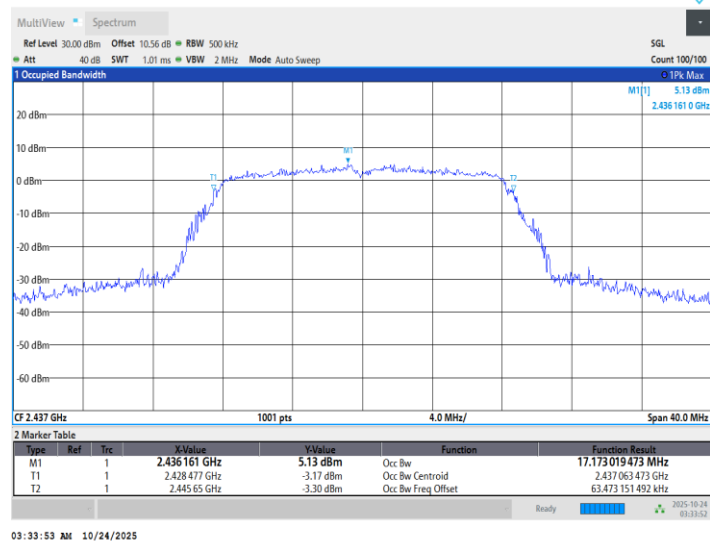
11B_Ant1_2462



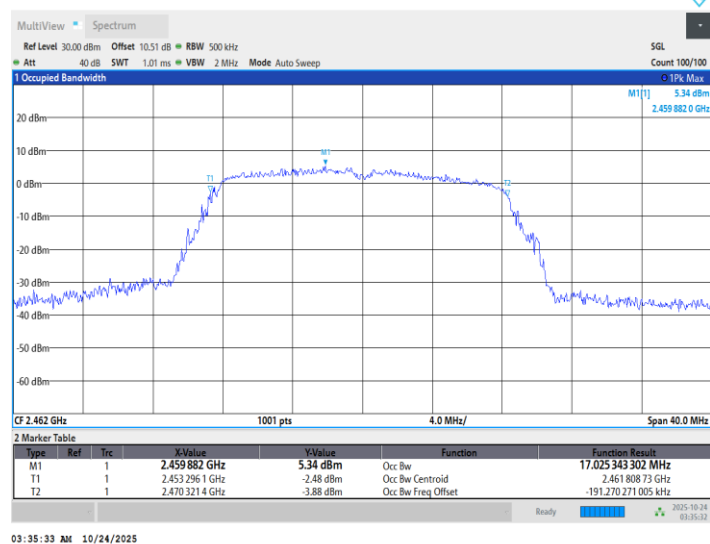
11G_Ant1_2412



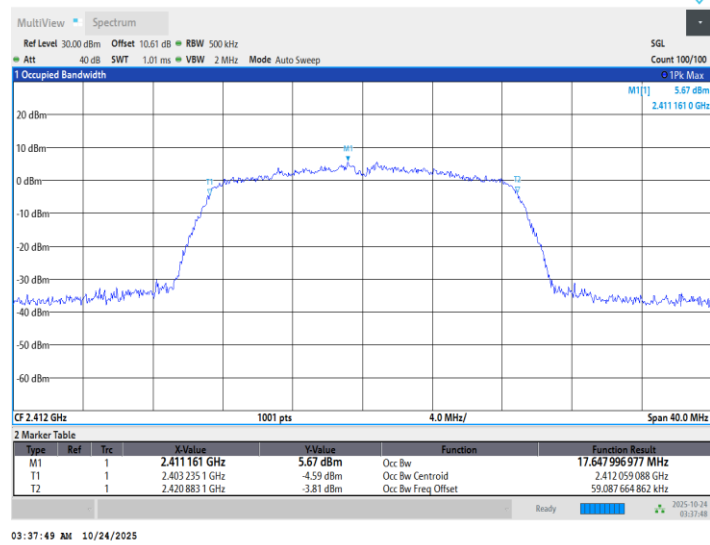
11G_Ant1_2437



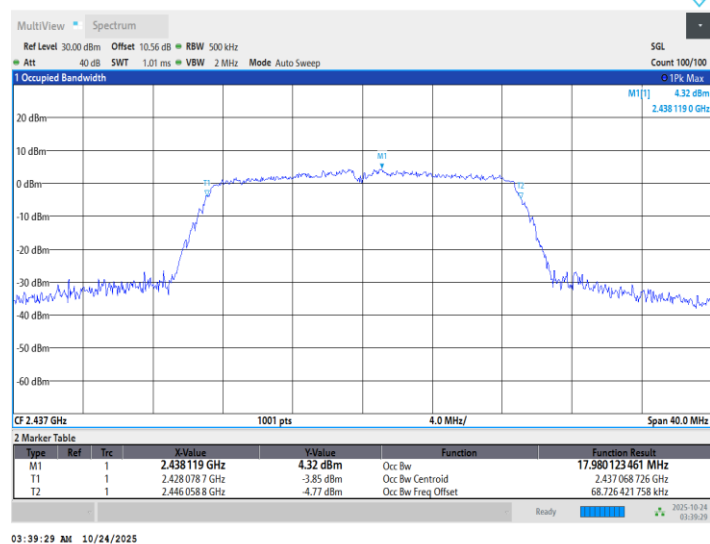
11G_Ant1_2462



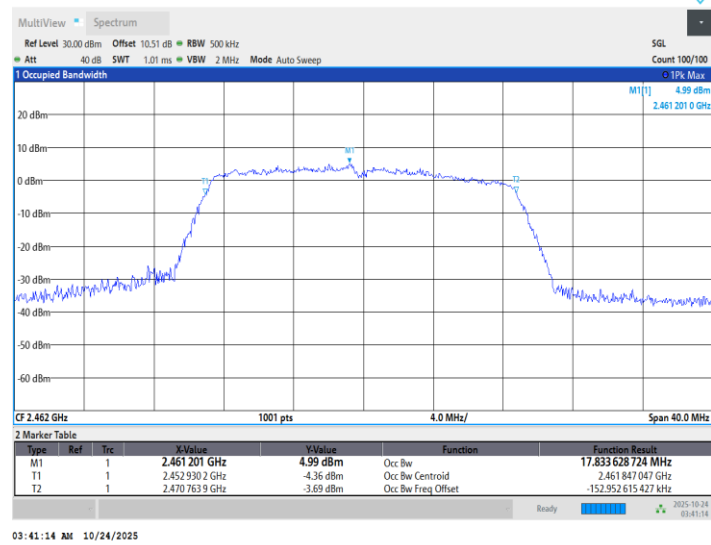
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



**MAXIMUM CONDUCTED OUTPUT POWER****TEST RESULT**

Test Mode	TX Mod.	Freq. [MHz]	Ant.	Average power [dBm]	Peak power [dBm]	Peak power [mw]	Conducted Power Limit [dBm]	EIRP power [dBm]	EIRP power [mw]	EIRP Limit [dBm]	Verdict	Power Setting
11B	SISO	2412	ANT1	12.43	15.85	38.46	≤30.00	17.85	60.95	≤36.00	PASS	12.5
		2437	ANT1	12.21	15.61	36.39	≤30.00	17.61	57.68	≤36.00	PASS	12
		2462	ANT1	12.62	17.16	52.00	≤30.00	19.16	82.41	≤36.00	PASS	12.5
11G	SISO	2412	ANT1	11.68	18.42	69.50	≤30.00	20.42	110.15	≤36.00	PASS	12
		2437	ANT1	11.88	18.87	77.09	≤30.00	20.87	122.18	≤36.00	PASS	12
		2462	ANT1	11.85	18.49	70.63	≤30.00	20.49	111.94	≤36.00	PASS	12
11N20	SISO	2412	ANT1	11.79	18.69	73.96	≤30.00	20.69	117.22	≤36.00	PASS	12
		2437	ANT1	11.65	19.31	85.31	≤30.00	21.31	135.21	≤36.00	PASS	12
		2462	ANT1	12.02	19.15	82.22	≤30.00	21.15	130.32	≤36.00	PASS	12

Note: The Average power with duty cycle factor.



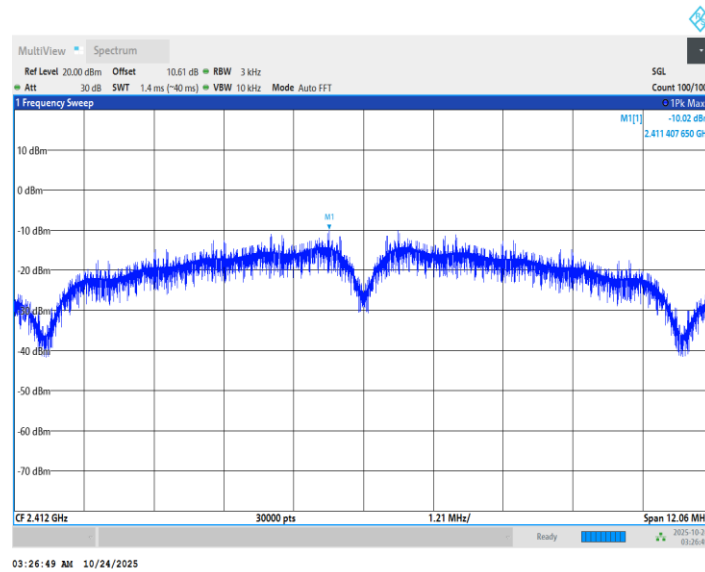
MAXIMUM POWER SPECTRAL DENSITY

TEST RESULT

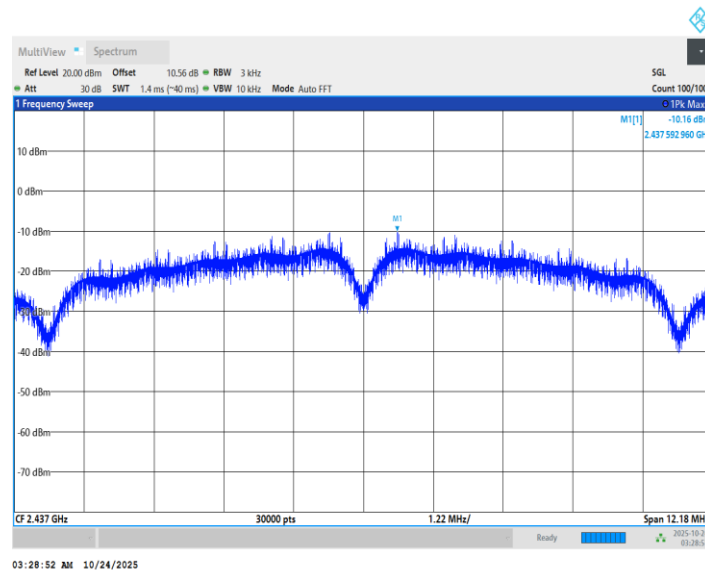
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.02	≤8.00	PASS
		2437	-10.16	≤8.00	PASS
		2462	-12.53	≤8.00	PASS
11G	Ant1	2412	-14.15	≤8.00	PASS
		2437	-15.42	≤8.00	PASS
		2462	-14.98	≤8.00	PASS
11N20SISO	Ant1	2412	-14.60	≤8.00	PASS
		2437	-15.21	≤8.00	PASS
		2462	-15.07	≤8.00	PASS



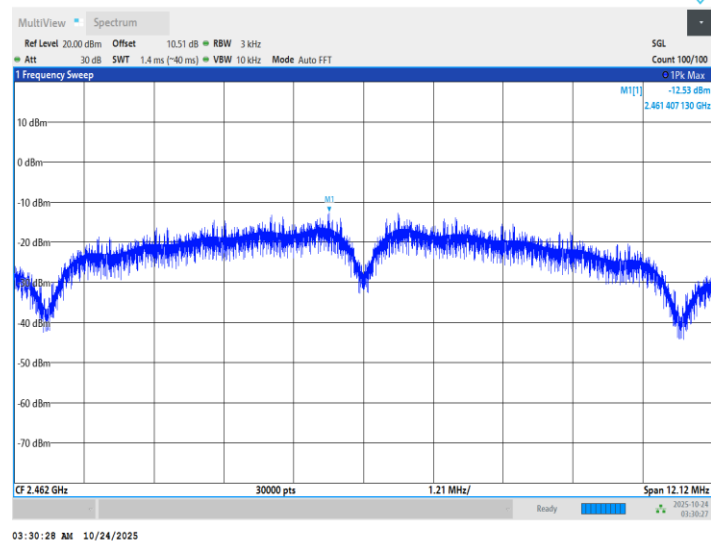
11B_Ant1_2412



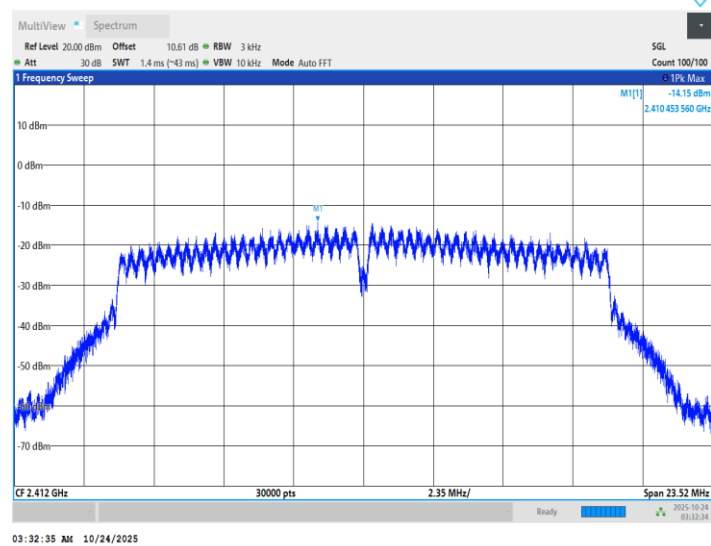
11B_Ant1_2437



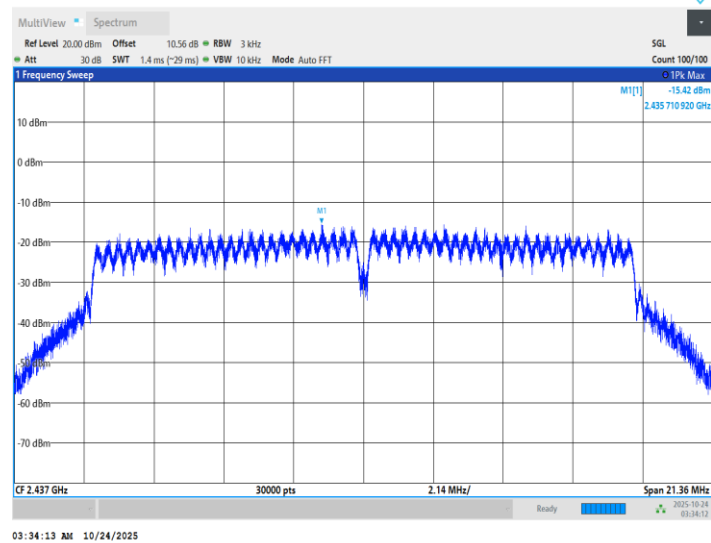
11B_Ant1_2462



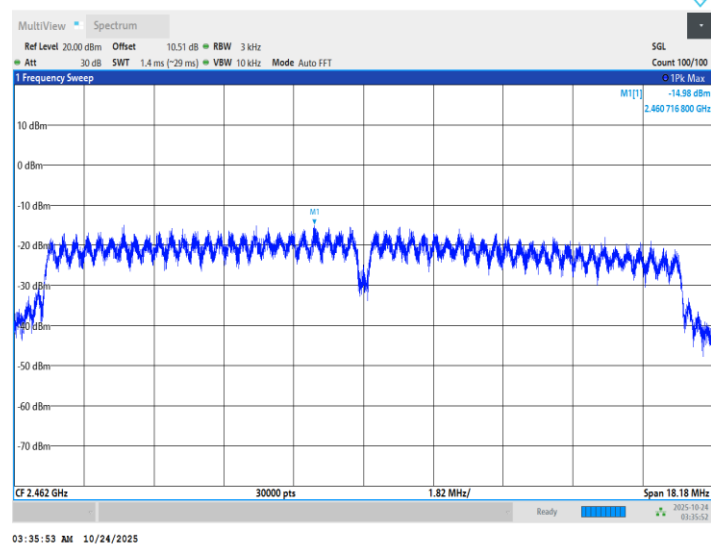
11G_Ant1_2412



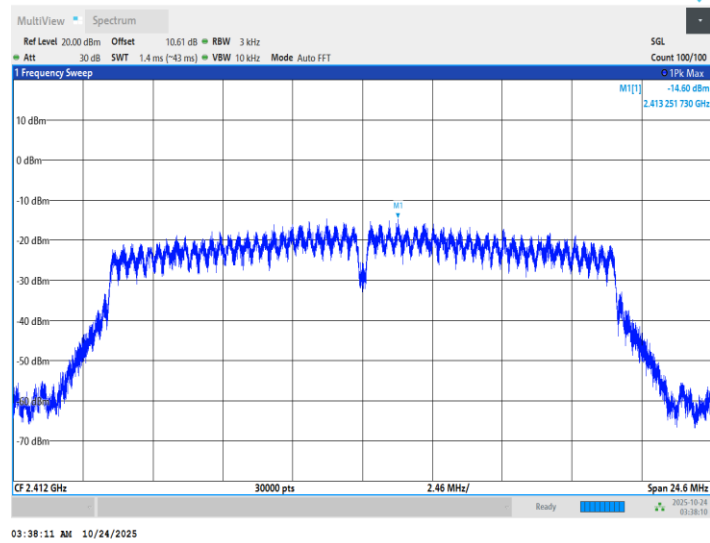
11G_Ant1_2437



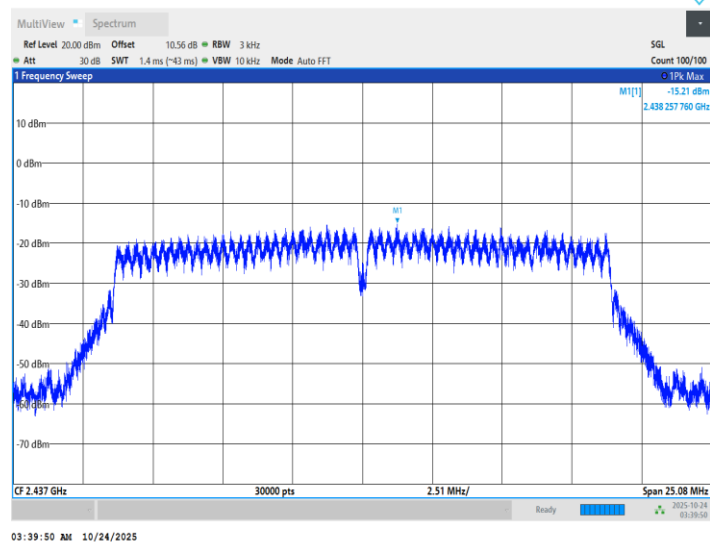
11G_Ant1_2462



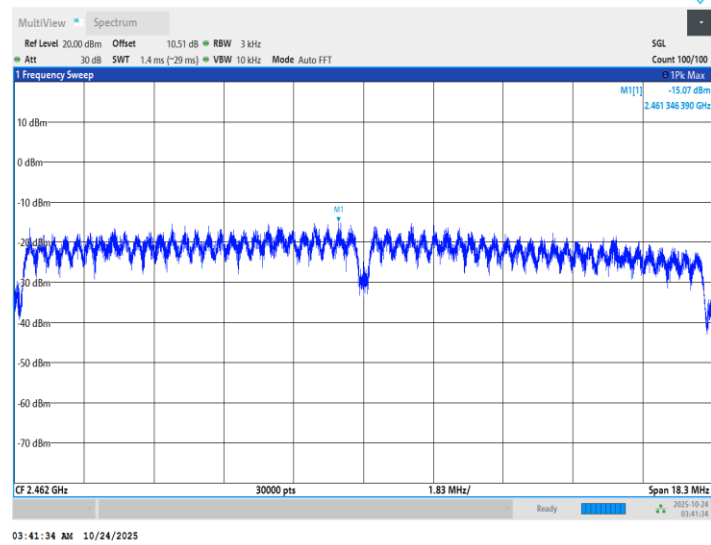
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462





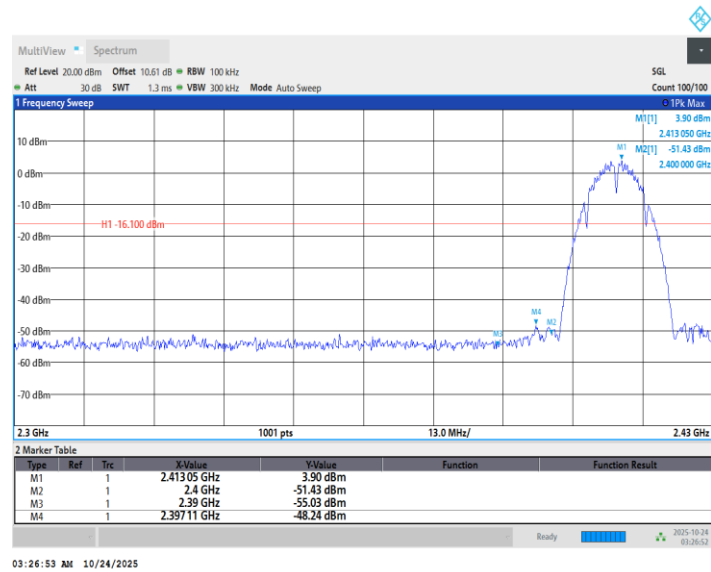
BAND EDGE MEASUREMENTS

TEST RESULT

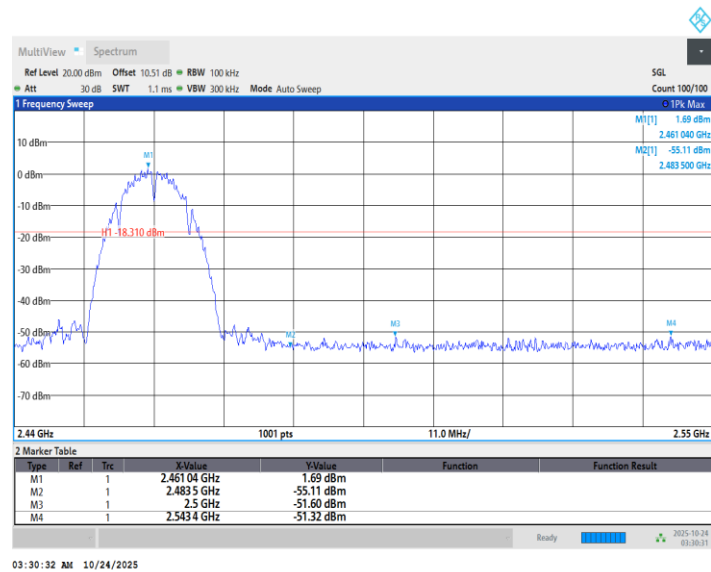
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.90	-48.24	≤-16.1	PASS
		High	2462	1.69	-51.32	≤-18.31	PASS
11G	Ant1	Low	2412	0.82	-40.02	≤-19.18	PASS
		High	2462	0.27	-51.08	≤-19.73	PASS
11N20SISO	Ant1	Low	2412	-0.51	-42.78	≤-20.51	PASS
		High	2462	0.27	-50.46	≤-19.73	PASS



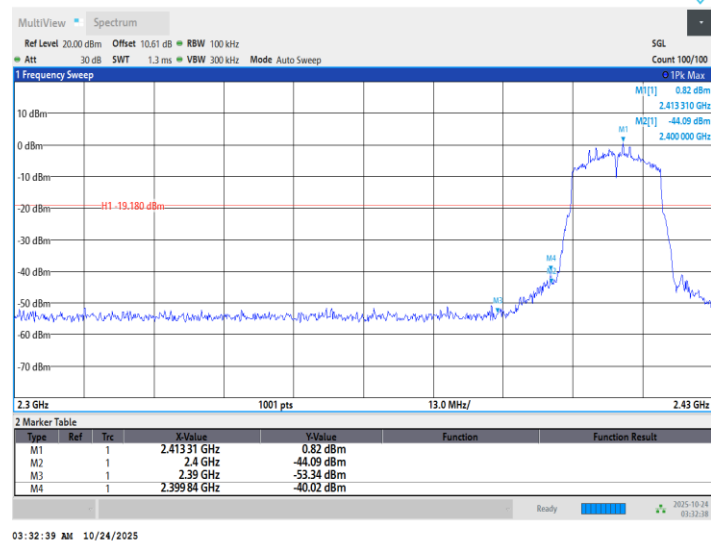
11B_Ant1_Low_2412



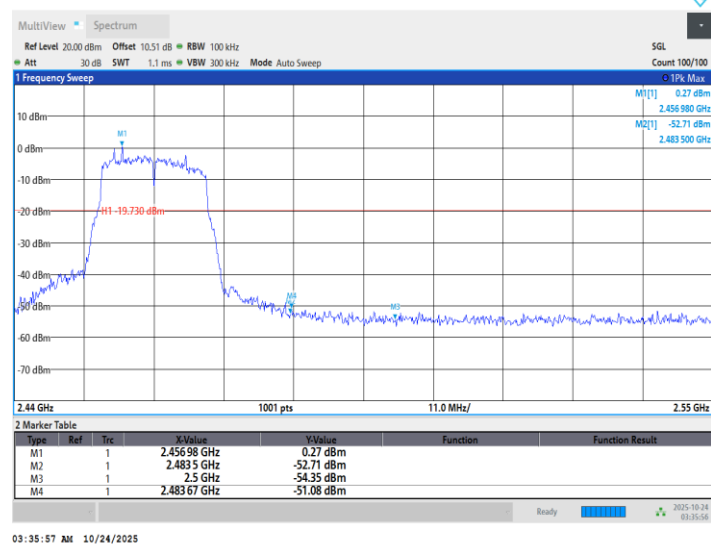
11B_Ant1_High_2462



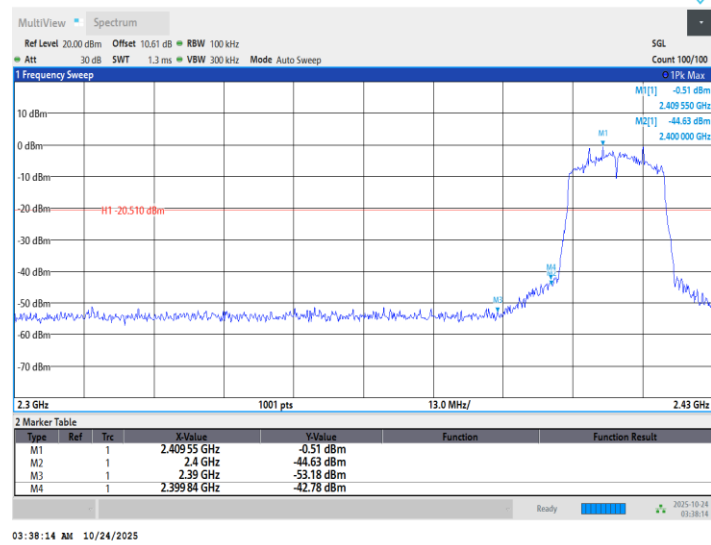
11G_Ant1_Low_2412



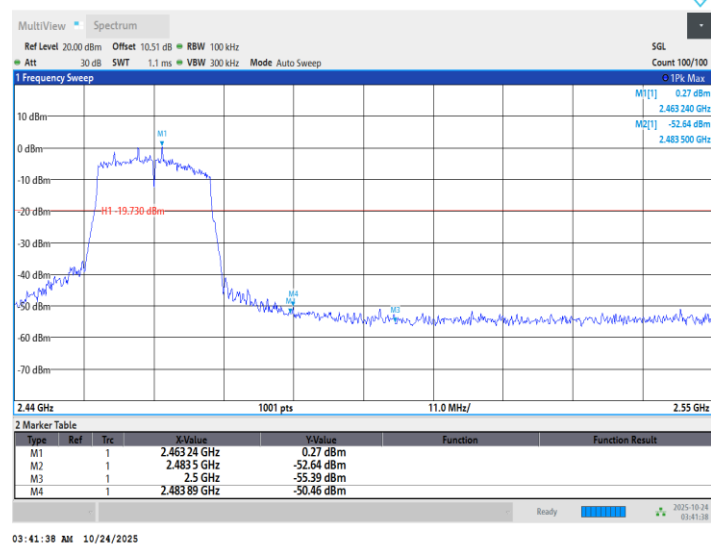
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462





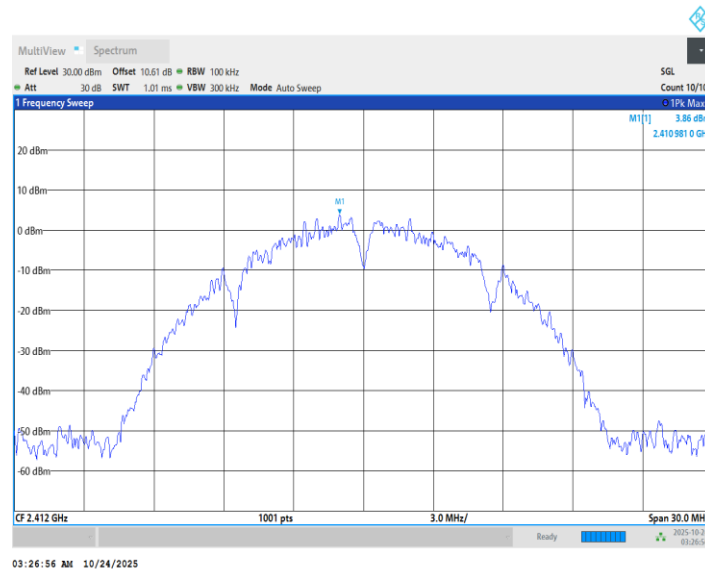
CONDUCTED SPURIOUS EMISSION

TEST RESULT

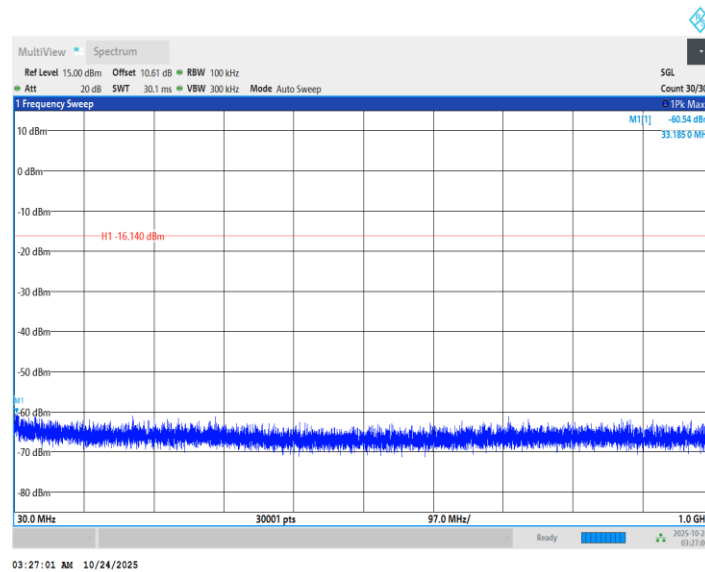
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.86	3.86	---	PASS
			30~1000	3.86	-60.54	≤-16.14	PASS
			1000~26500	3.86	-47.79	≤-16.14	PASS
		2437	Reference	2.70	2.70	---	PASS
			30~1000	2.70	-59.79	≤-17.3	PASS
			1000~26500	2.70	-45.29	≤-17.3	PASS
		2462	Reference	0.67	0.67	---	PASS
			30~1000	0.67	-59.84	≤-19.33	PASS
			1000~26500	0.67	-49.42	≤-19.33	PASS
11G	Ant1	2412	Reference	-2.49	-2.49	---	PASS
			30~1000	-2.49	-59.2	≤-22.49	PASS
			1000~26500	-2.49	-51.35	≤-22.49	PASS
		2437	Reference	-3.52	-3.52	---	PASS
			30~1000	-3.52	-58.17	≤-23.52	PASS
			1000~26500	-3.52	-52.35	≤-23.52	PASS
		2462	Reference	-3.86	-3.86	---	PASS
			30~1000	-3.86	-58.7	≤-23.86	PASS
			1000~26500	-3.86	-51.86	≤-23.86	PASS
11N20SISO	Ant1	2412	Reference	-2.37	-2.37	---	PASS
			30~1000	-2.37	-60.71	≤-22.37	PASS
			1000~26500	-2.37	-51.69	≤-22.37	PASS
		2437	Reference	-2.77	-2.77	---	PASS
			30~1000	-2.77	-57.87	≤-22.77	PASS
			1000~26500	-2.77	-51.93	≤-22.77	PASS
		2462	Reference	-3.23	-3.23	---	PASS
			30~1000	-3.23	-60.45	≤-23.23	PASS
			1000~26500	-3.23	-51.81	≤-23.23	PASS



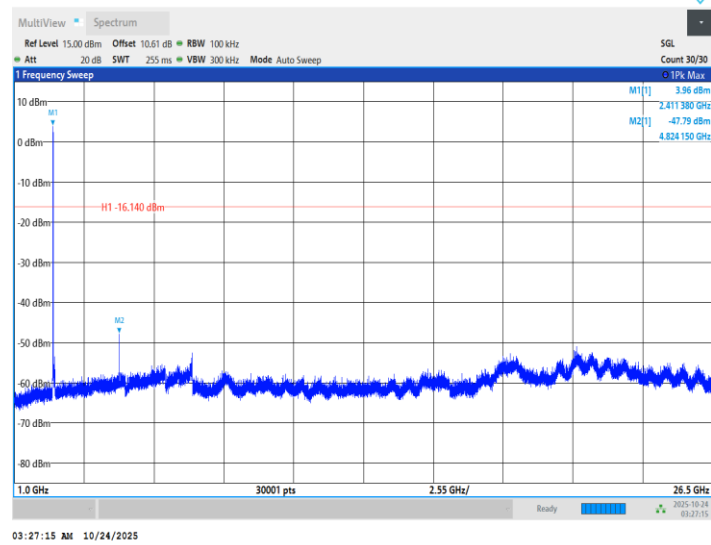
11B_Ant1_2412_0~Reference



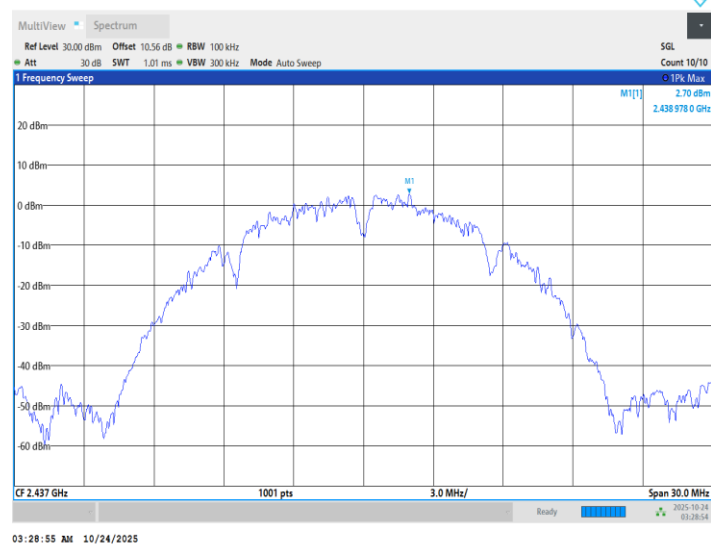
11B_Ant1_2412_30~1000



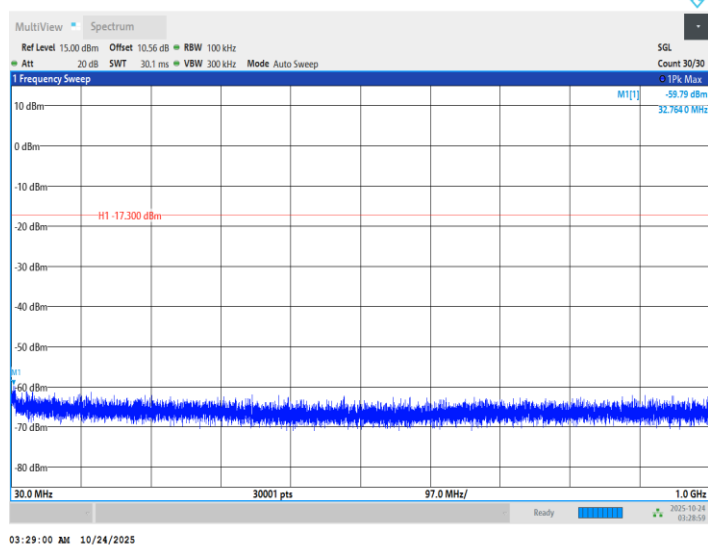
11B_Ant1_2412_1000~26500



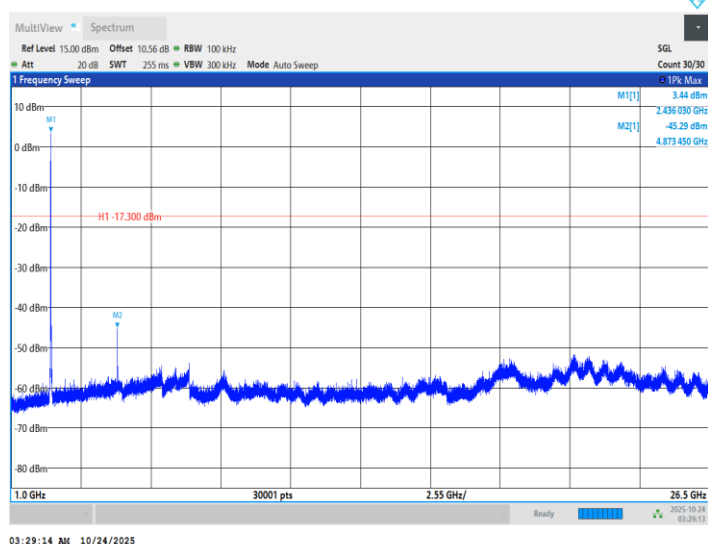
11B_Ant1_2437_0~Reference



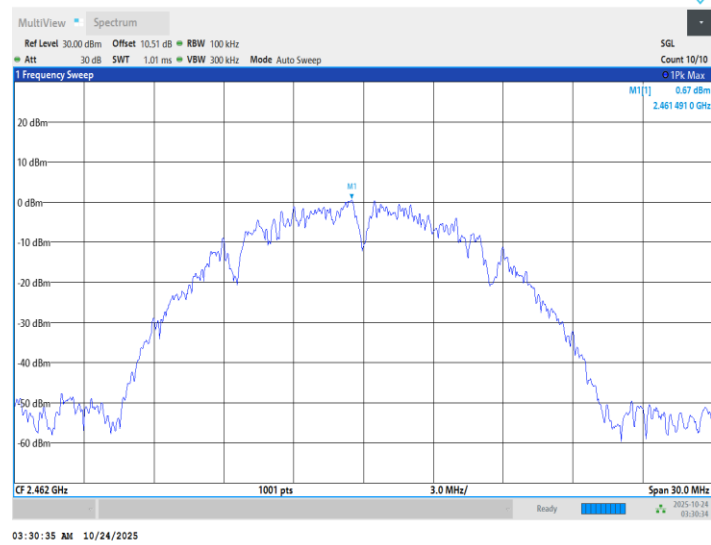
11B_Ant1_2437_30~1000



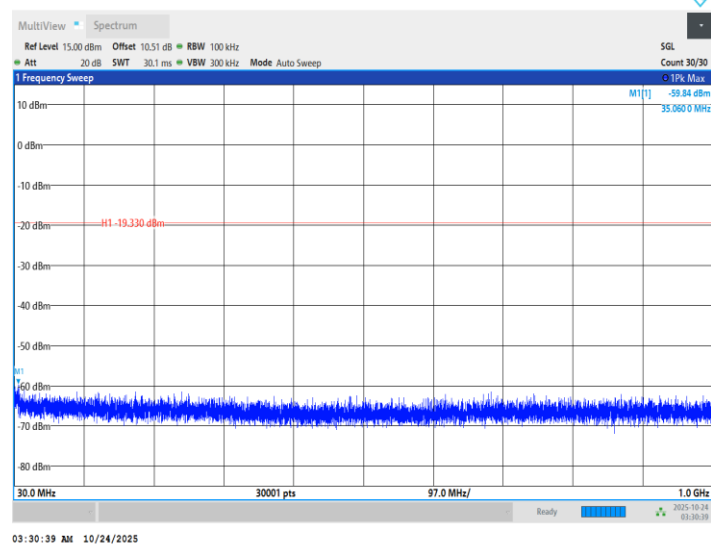
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

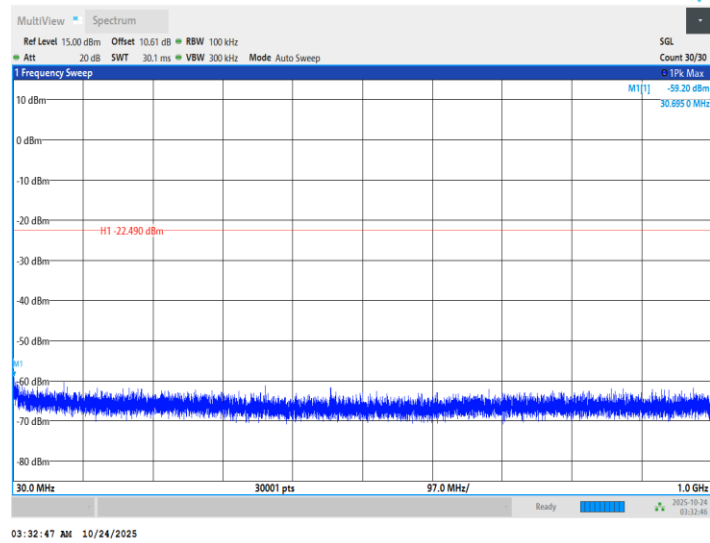


11B_Ant1_2462_30~1000

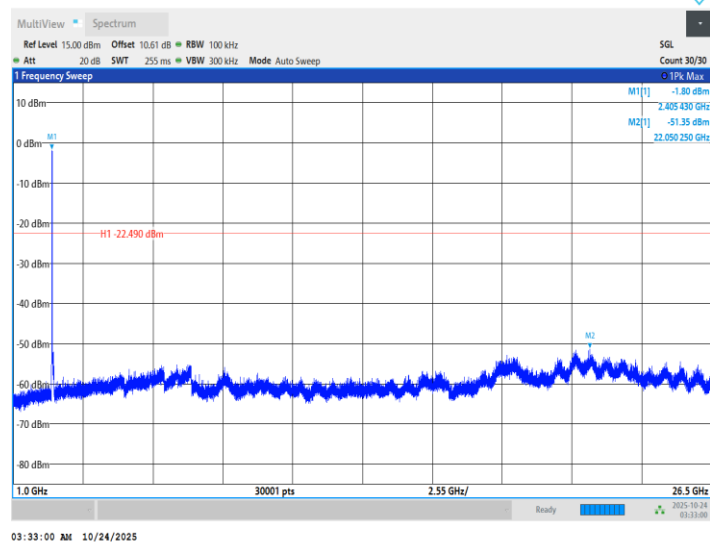


11B_Ant1_2462_1000~26500

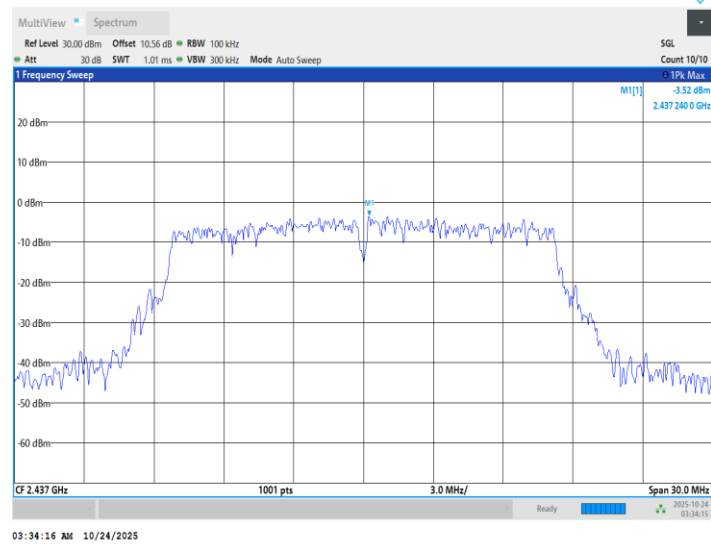




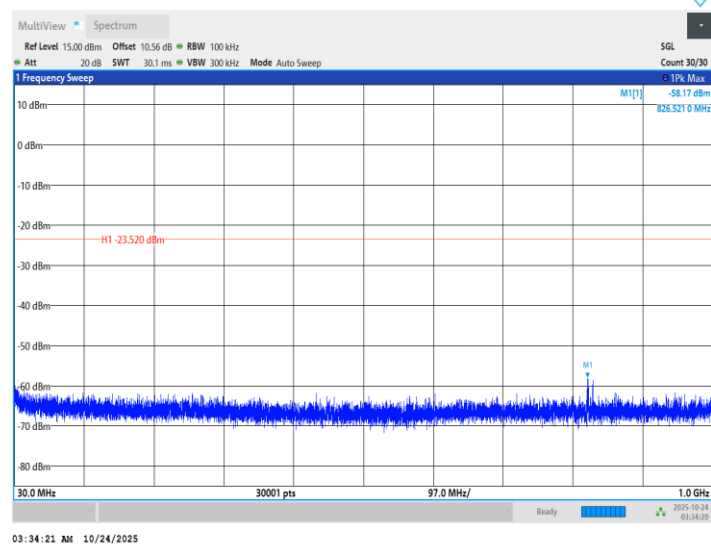
11G_Ant1_2412_1000~26500



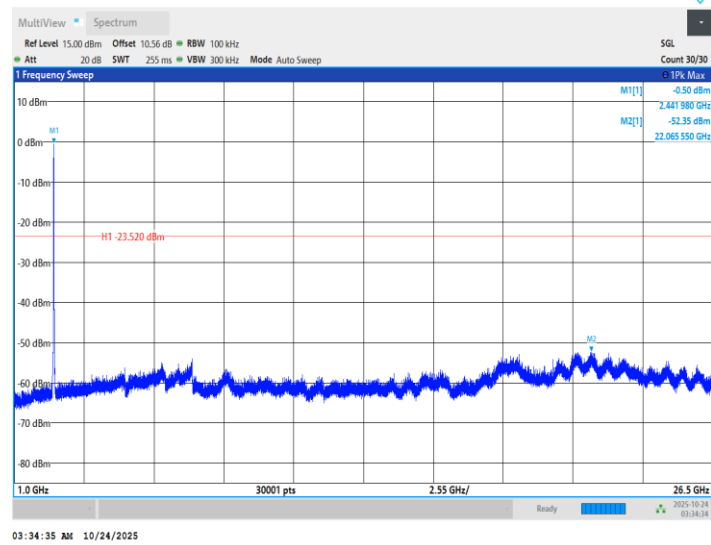
11G_Ant1_2437_0~Reference



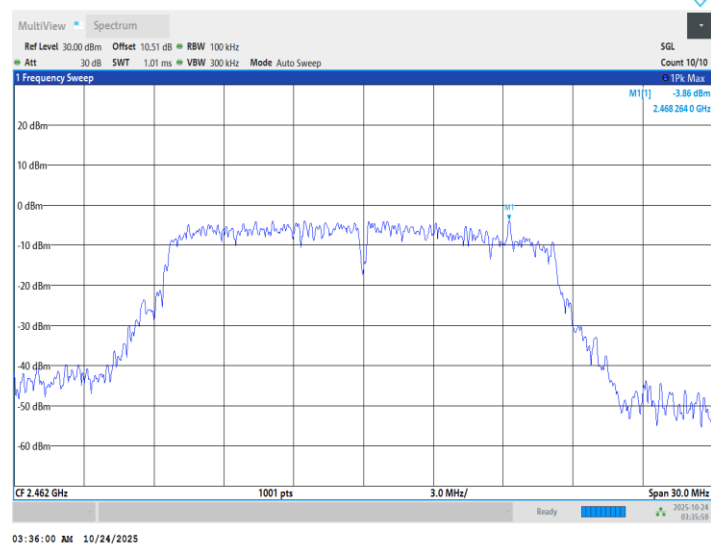
11G_Ant1_2437_30~1000



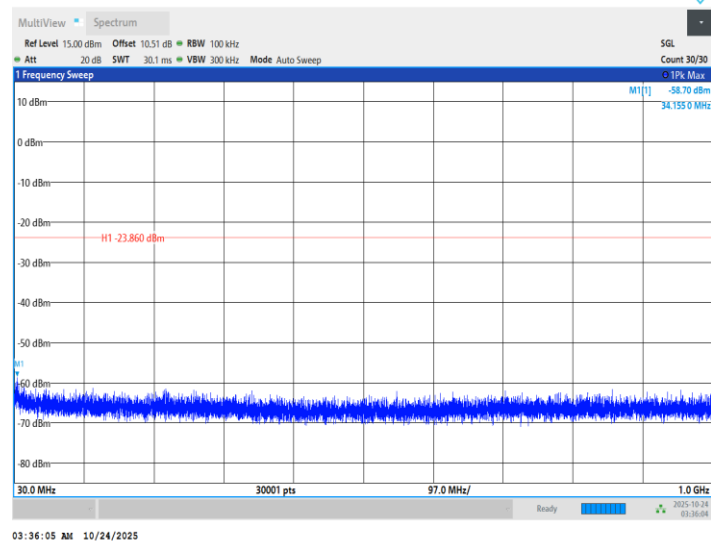
11G_Ant1_2437_1000~26500



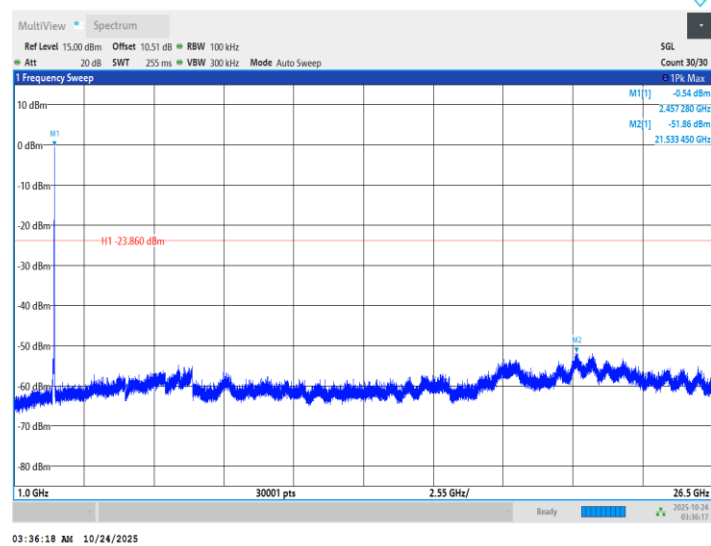
11G_Ant1_2462_0~Reference



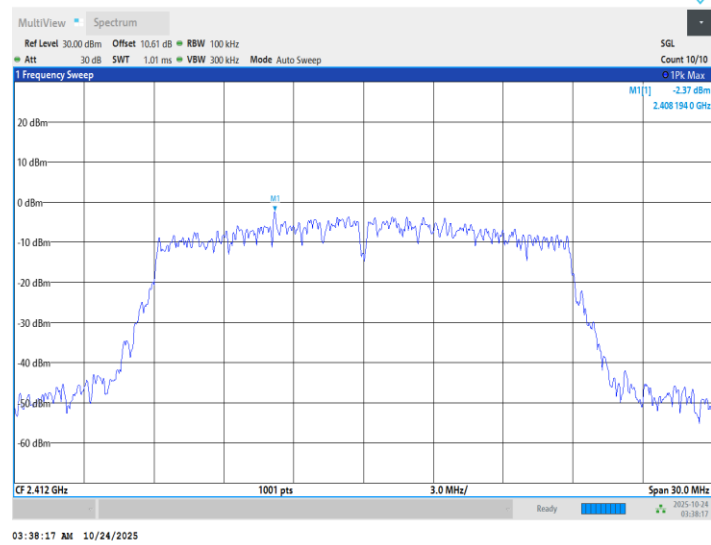
11G_Ant1_2462_30~1000



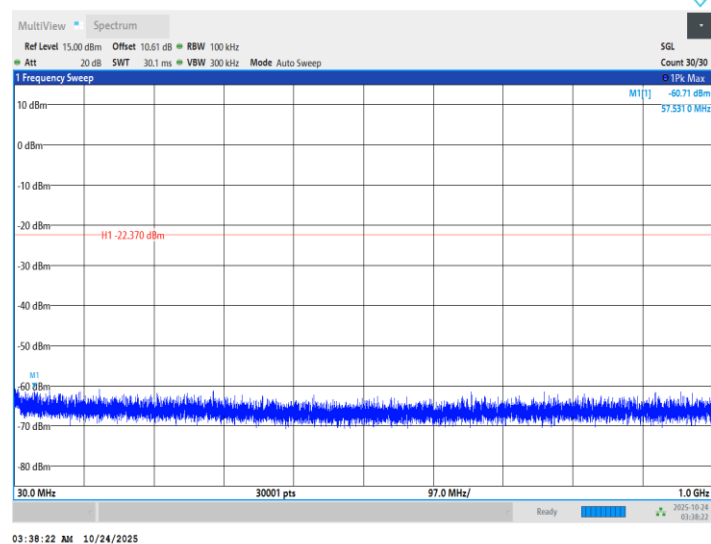
11G_Ant1_2462_1000~26500



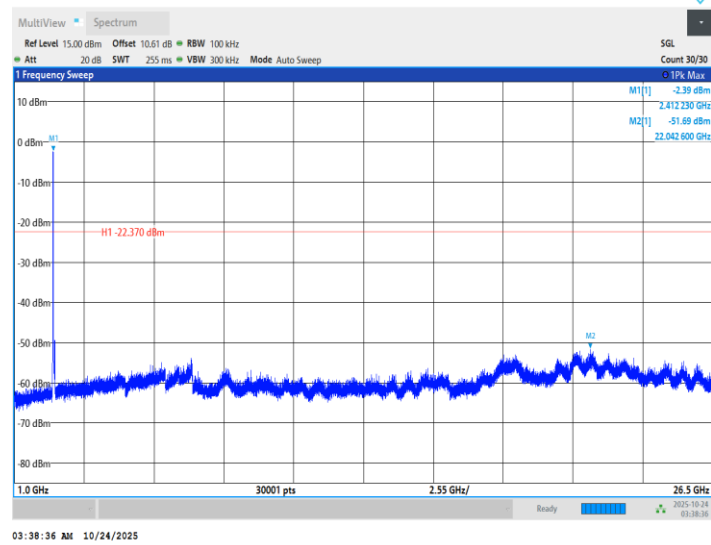
11N20SISO_Ant1_2412_0~Reference



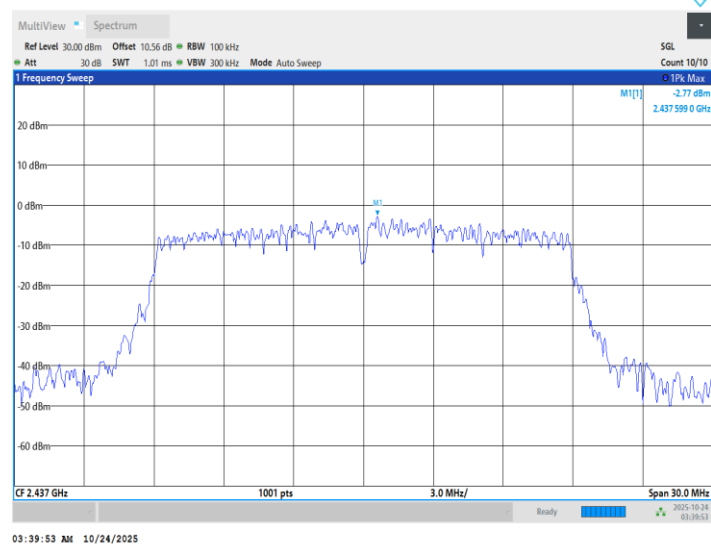
11N20SISO_Ant1_2412_30~1000



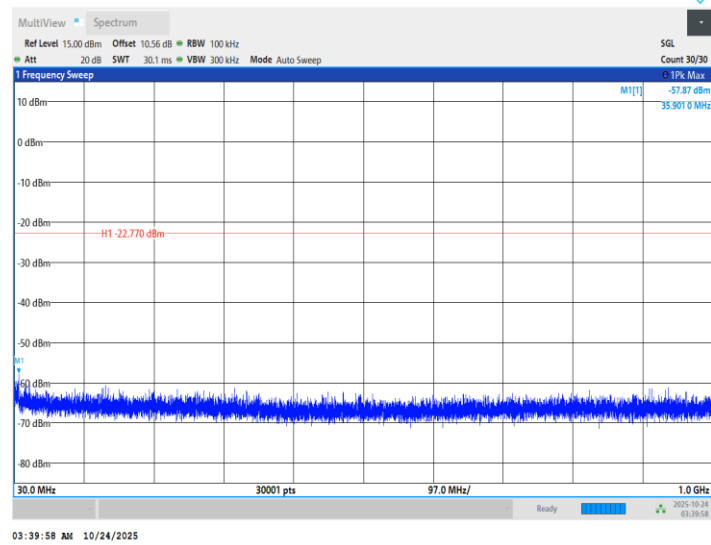
11N20SISO_Ant1_2412_1000~26500



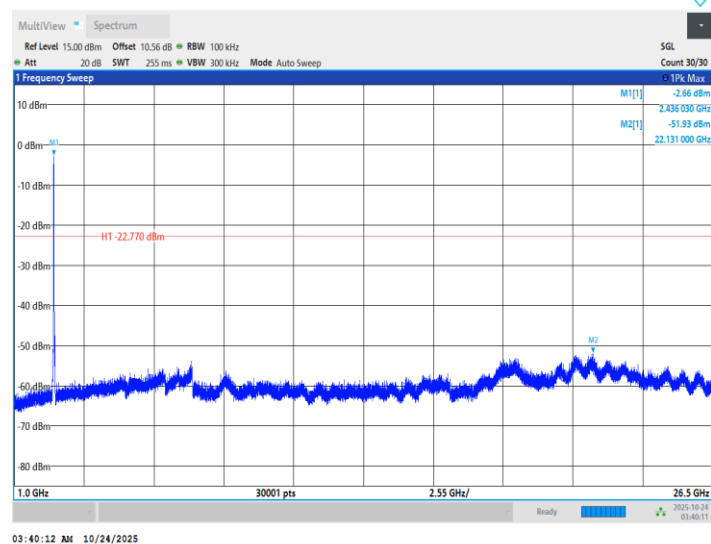
11N20SISO_Ant1_2437_0~Reference



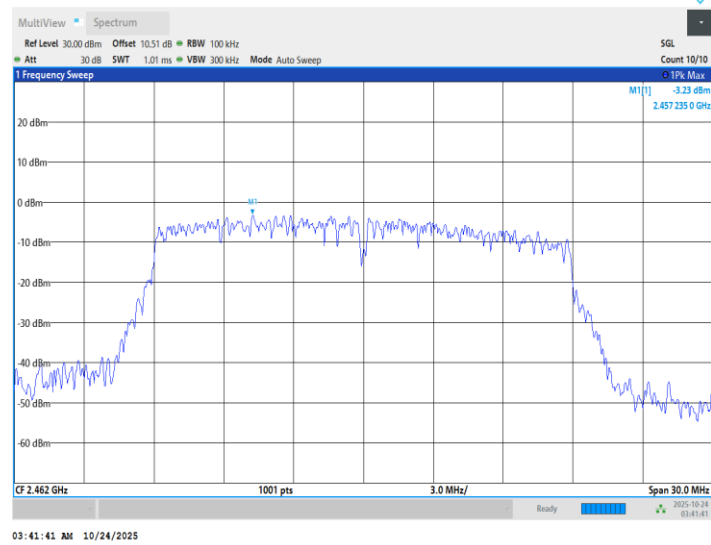
11N20SISO_Ant1_2437_30~1000



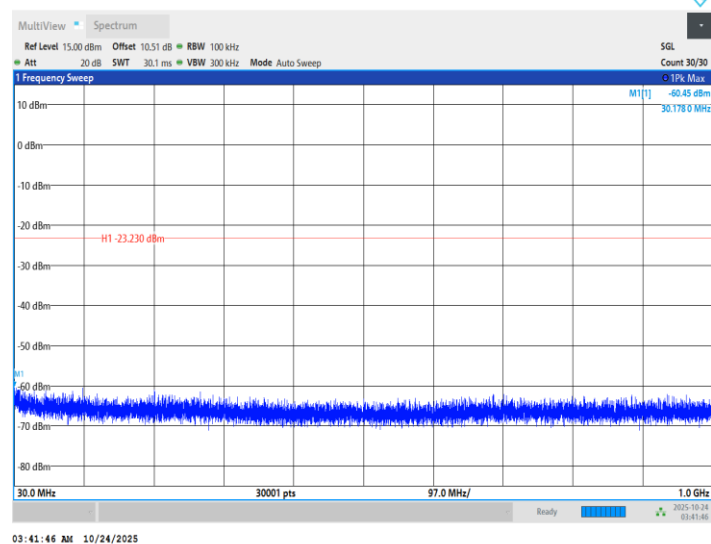
11N20SISO_Ant1_2437_1000~26500



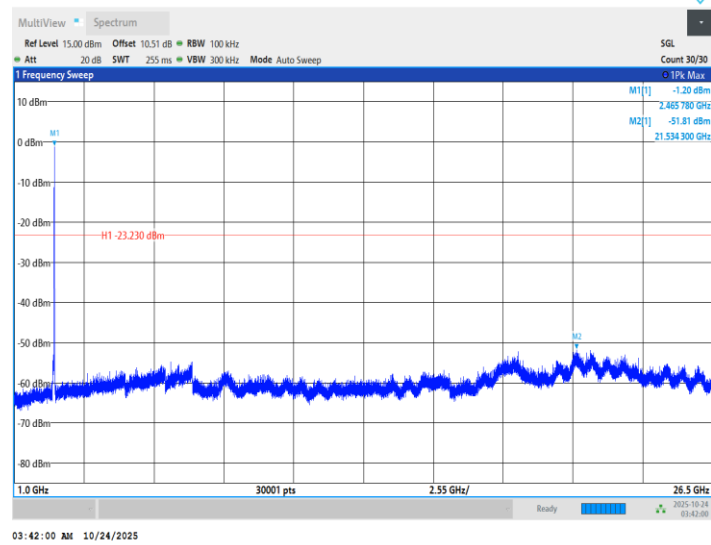
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



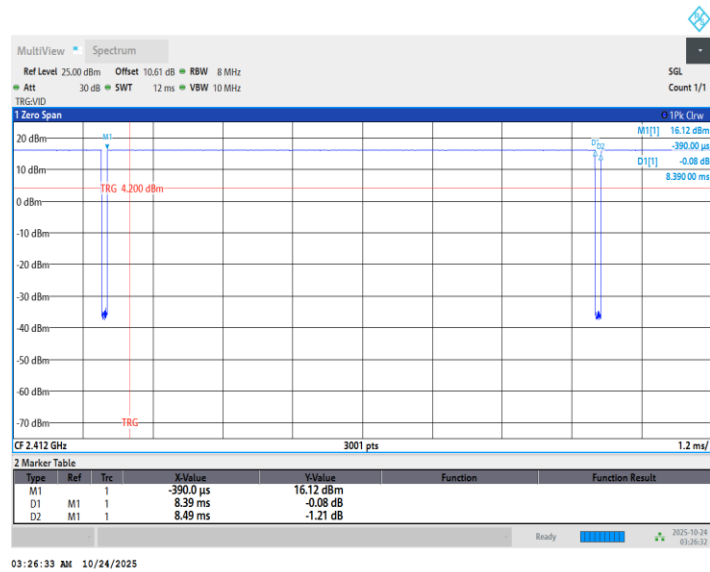
**DUTY CYCLE****TEST RESULT**

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	8.39	8.49	98.82
		2437	8.38	8.49	98.70
		2462	8.39	8.49	98.82
11G	Ant1	2412	1.39	1.50	92.67
		2437	1.39	1.50	92.67
		2462	1.40	1.51	92.72
11N20SISO	Ant1	2412	1.28	1.39	92.09
		2437	1.28	1.39	92.09
		2462	1.29	1.40	92.14

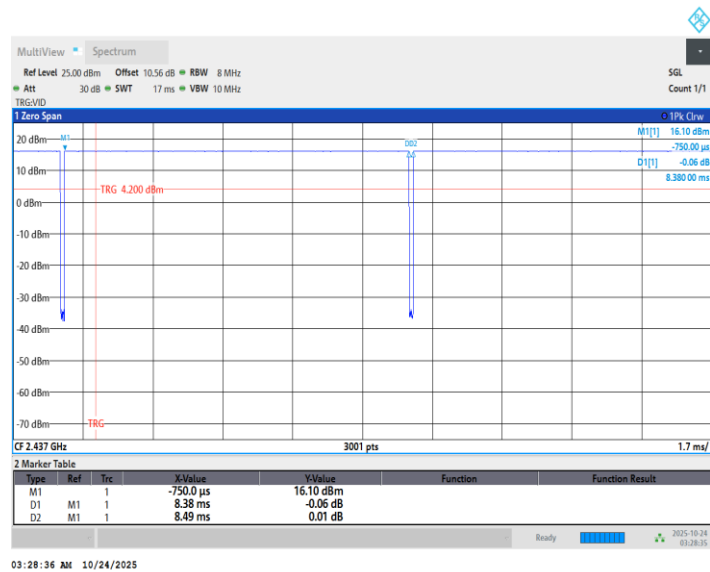


BUREAU VERITAS Test Report No.: PSU-QBJ2509260217RF02
TEST GRAPHS

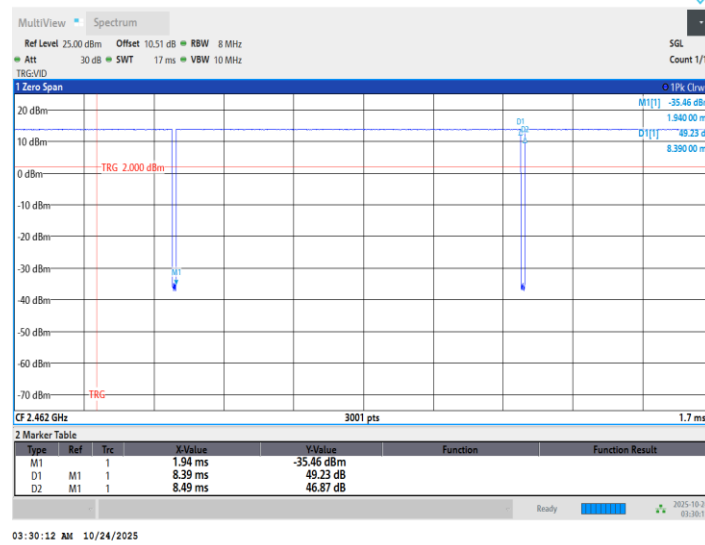
11B_Ant1_2412



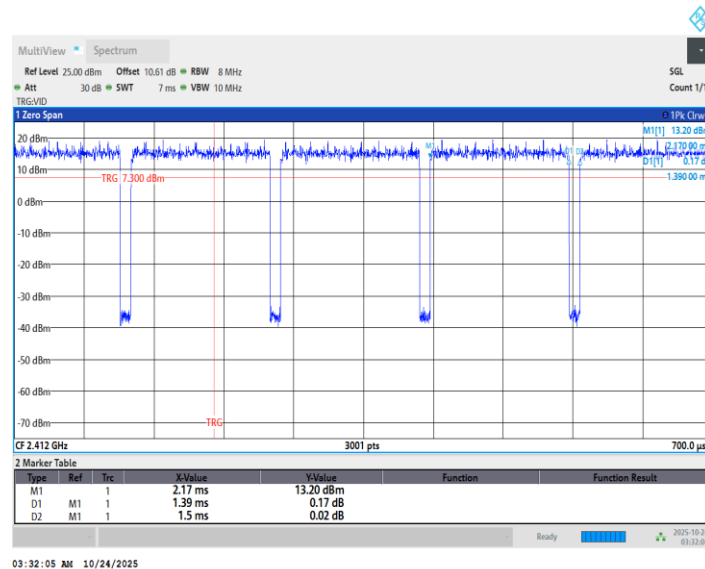
11B_Ant1_2437



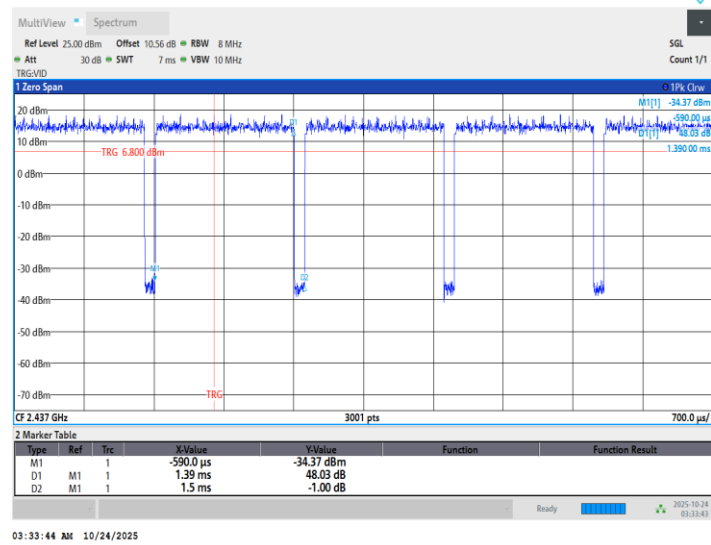
11B_Ant1_2462



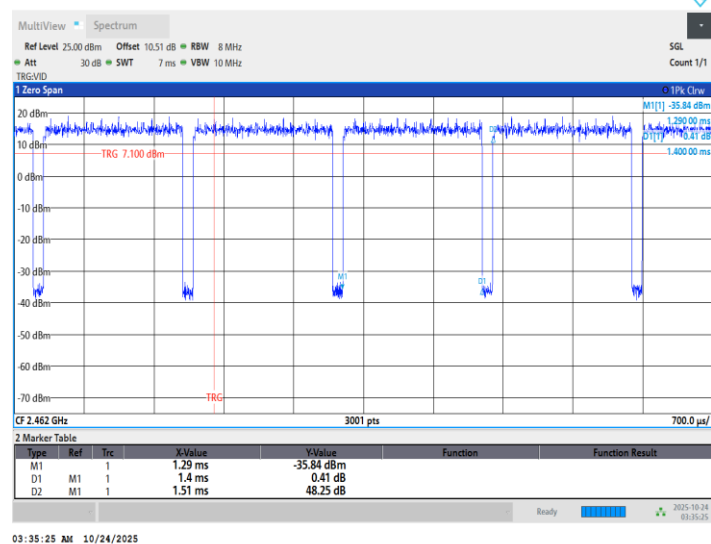
11G_Ant1_2412



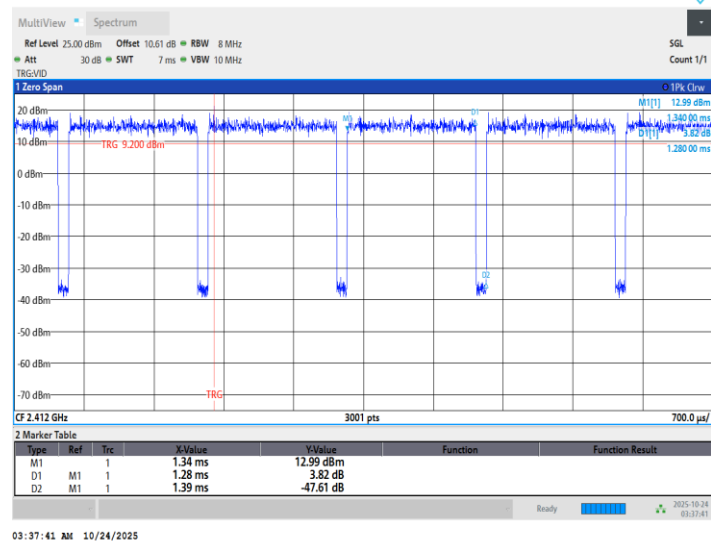
11G_Ant1_2437



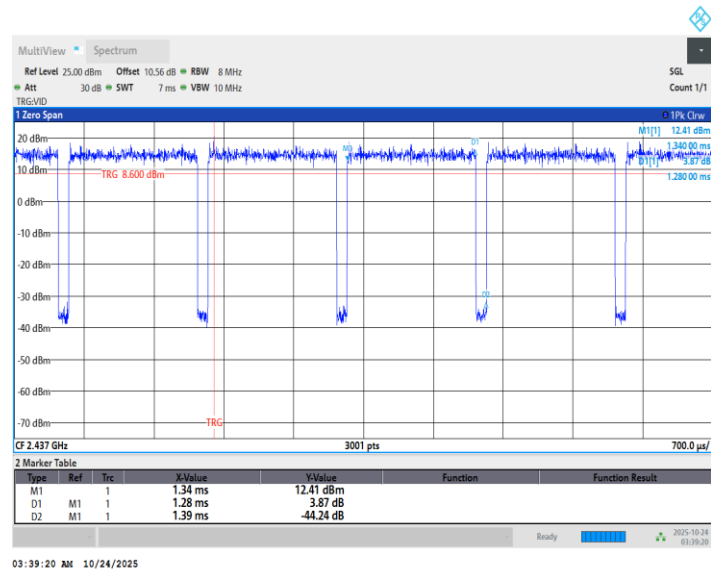
11G_Ant1_2462



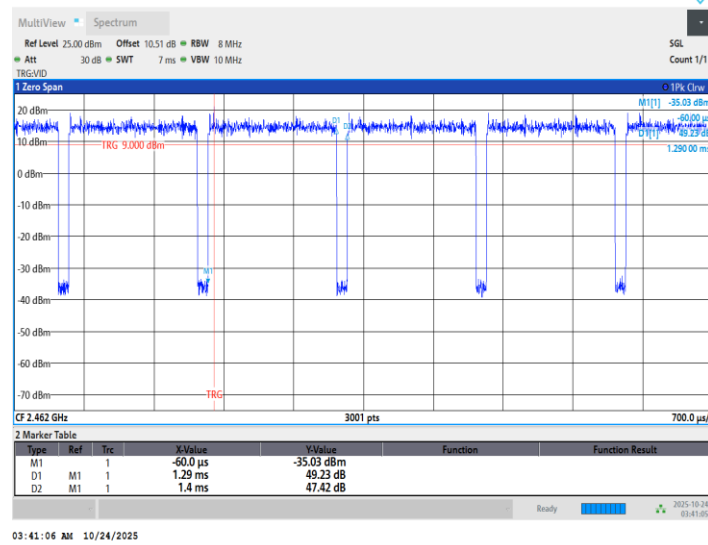
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462





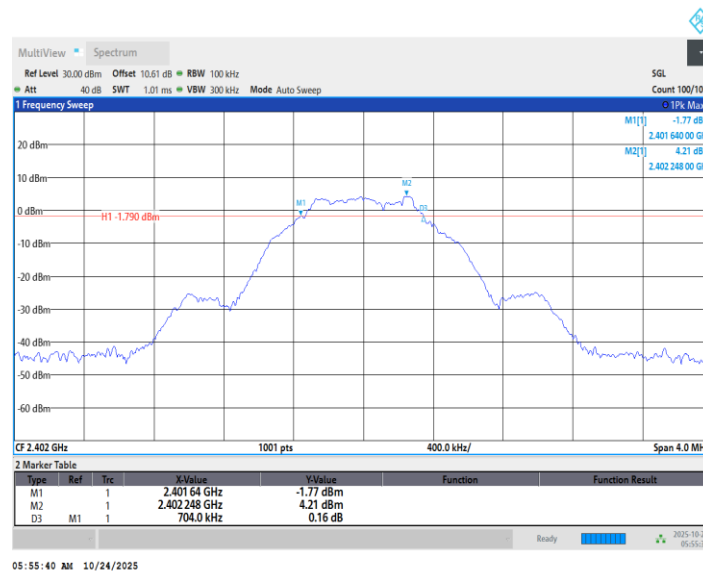
7 APPENDIX B:BLE DTS BANDWIDTH

TEST RESULT

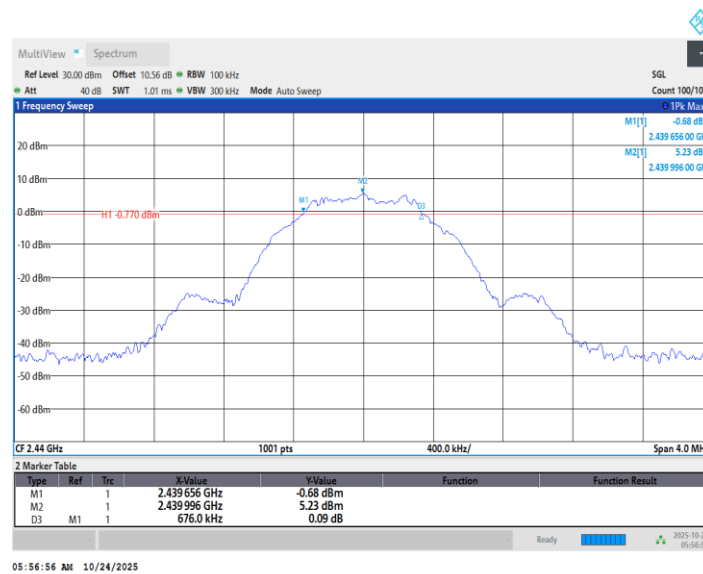
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.70	2401.64	2402.34	0.5	PASS
		2440	0.68	2439.66	2440.33	0.5	PASS
		2480	0.66	2479.67	2480.33	0.5	PASS



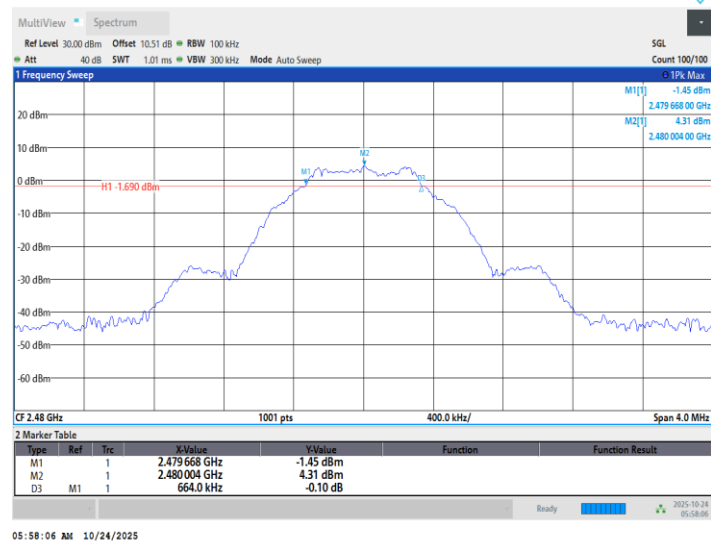
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





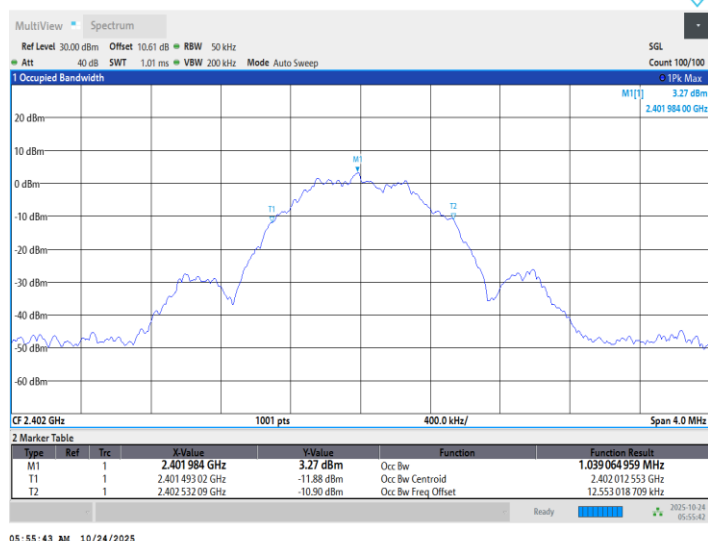
OCCUPIED CHANNEL BANDWIDTH

TEST RESULT

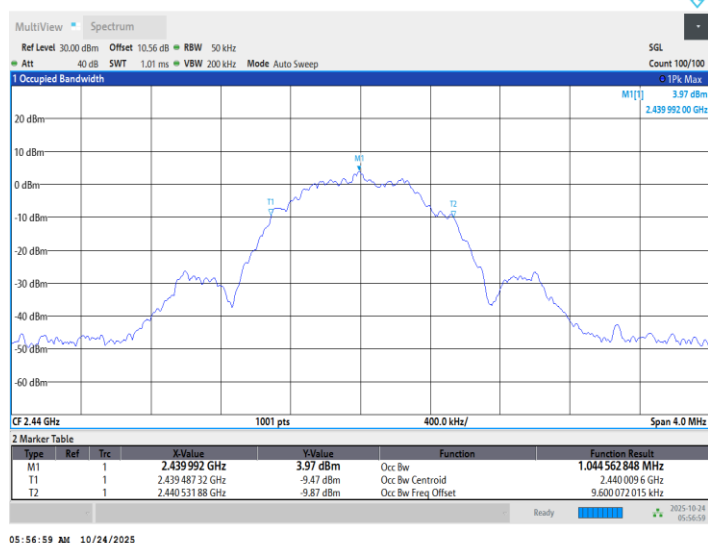
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0391	2401.4930	2402.5321	---	---
		2440	1.0446	2439.4873	2440.5319	---	---
		2480	1.0407	2479.4875	2480.5283	---	---



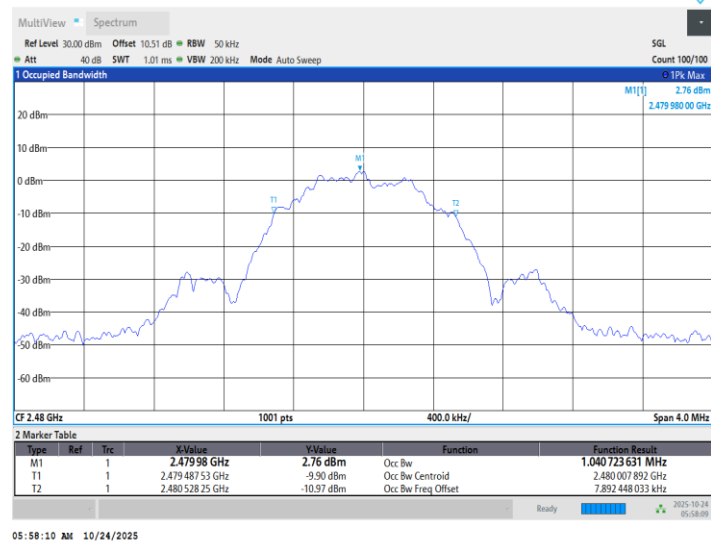
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



**MAXIMUM CONDUCTED OUTPUT POWER****TEST RESULT**

TestMode	Antenna	Channel	Average power [dBm]	Peak power [dBm]	Peak power [mw]	Conducted Limit [dBm]	EIRP [dBm]	EIRP [mw]	EIRP Limit [dBm]	Verdict	Power Setting
BLE_1M	Ant1	2402	5.70	6.74	4.72	≤30	8.54	7.14	≤36	PASS	Default
		2440	6.59	7.54	5.68	≤30	9.34	8.59	≤36	PASS	Default
		2480	6.50	6.62	4.59	≤30	8.42	6.95	≤36	PASS	Default
Note:EIRP=Peak Power+Gain											



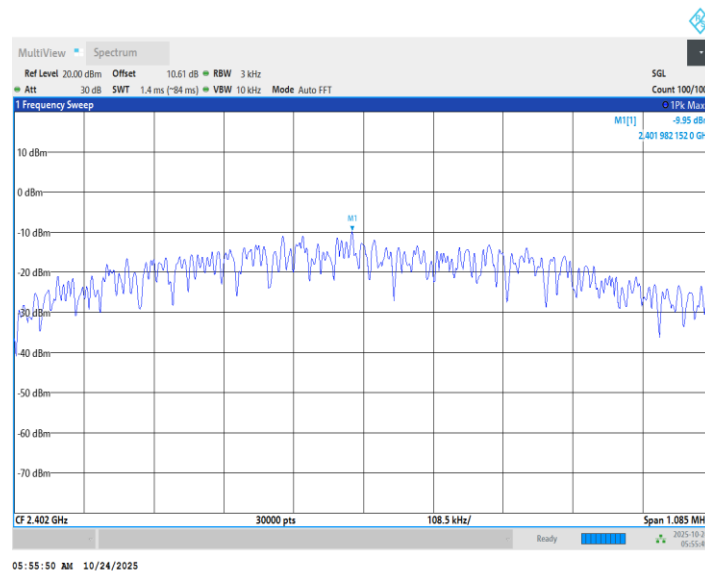
MAXIMUM POWER SPECTRAL DENSITY

TEST RESULT

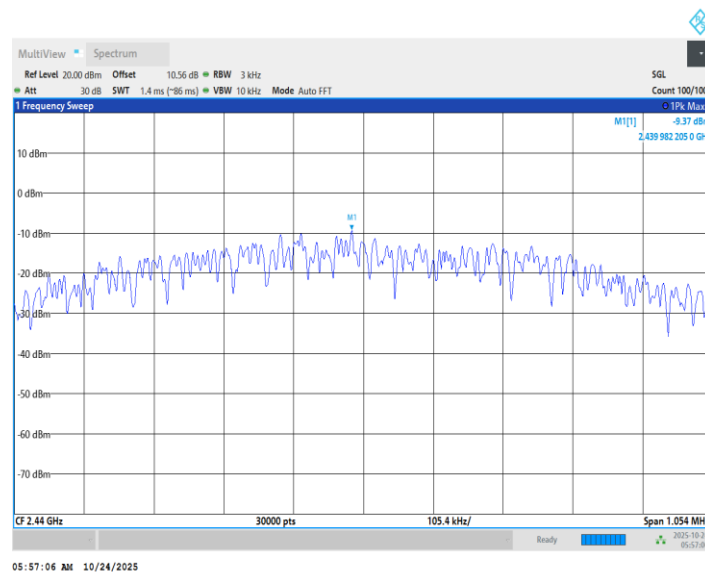
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.95	≤8.00	PASS
		2440	-9.37	≤8.00	PASS
		2480	-10.17	≤8.00	PASS



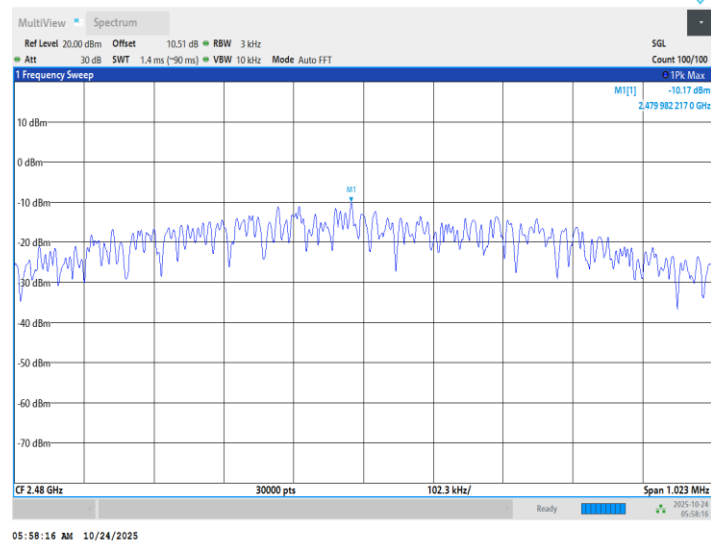
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





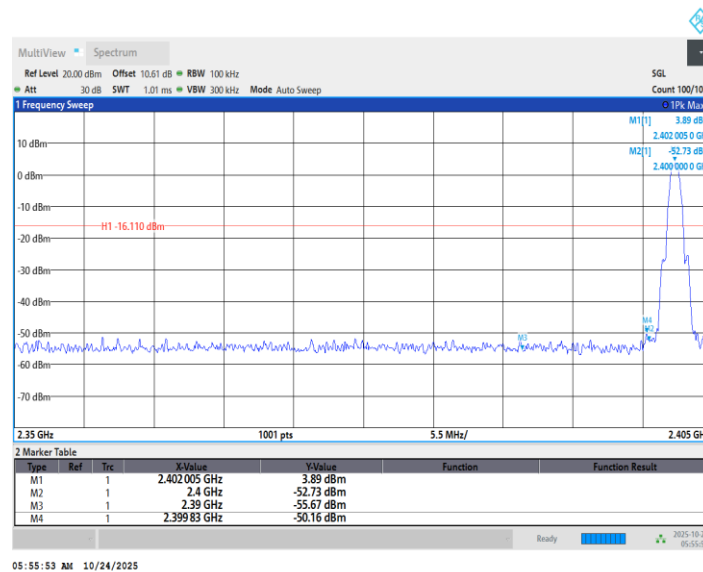
BAND EDGE MEASUREMENTS

TEST RESULT

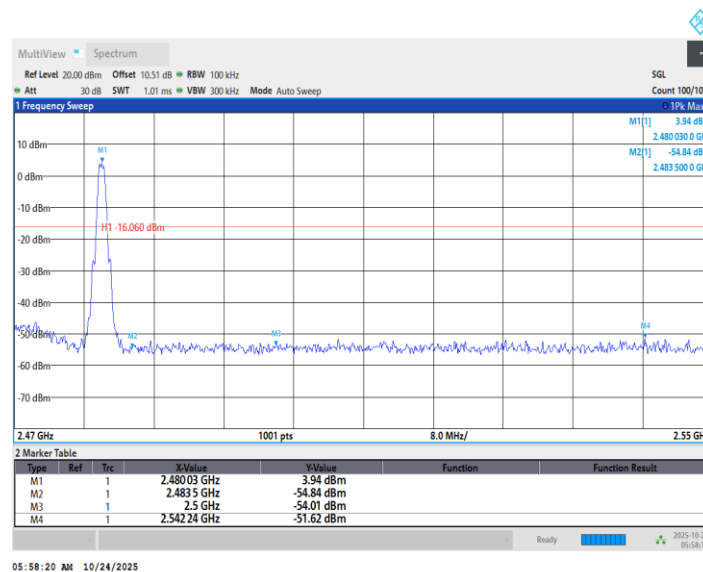
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.89	-50.16	≤-16.11	PASS
		High	2480	3.94	-51.62	≤-16.06	PASS



BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

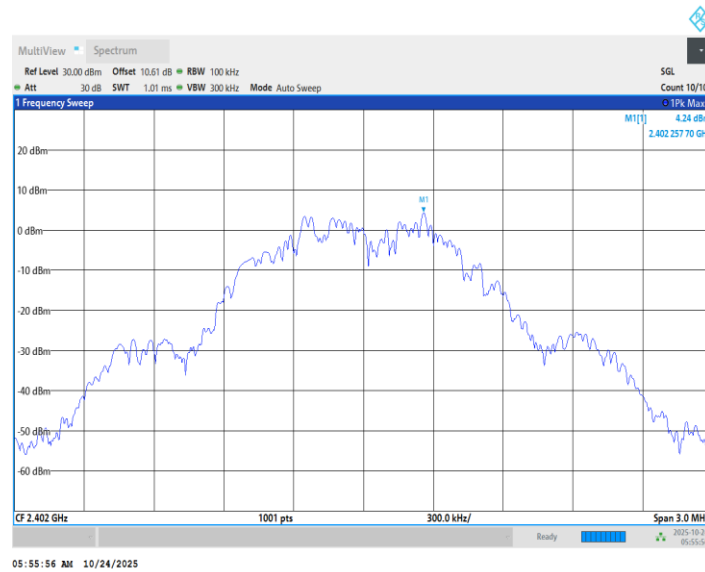


**CONDUCTED SPURIOUS EMISSION****TEST RESULT**

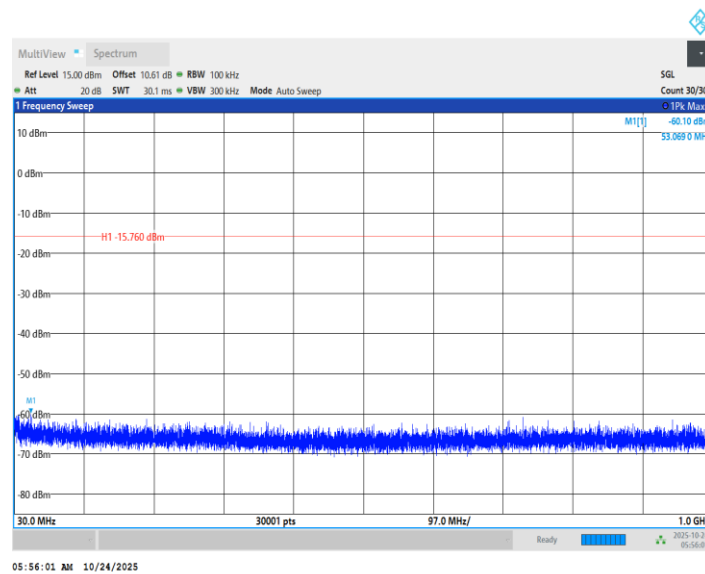
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	4.24	4.24	---	PASS
			30~1000	4.24	-60.1	≤-15.76	PASS
			1000~26500	4.24	-52.25	≤-15.76	PASS
		2440	Reference	4.62	4.62	---	PASS
			30~1000	4.62	-60.17	≤-15.38	PASS
			1000~26500	4.62	-51.2	≤-15.38	PASS
		2480	Reference	4.07	4.07	---	PASS
			30~1000	4.07	-58.88	≤-15.93	PASS
			1000~26500	4.07	-51.53	≤-15.93	PASS



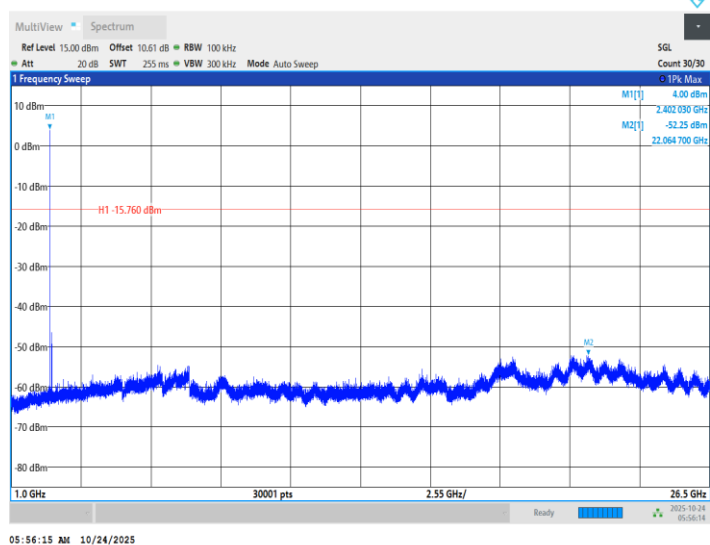
BLE_1M_Ant1_2402_0~Reference



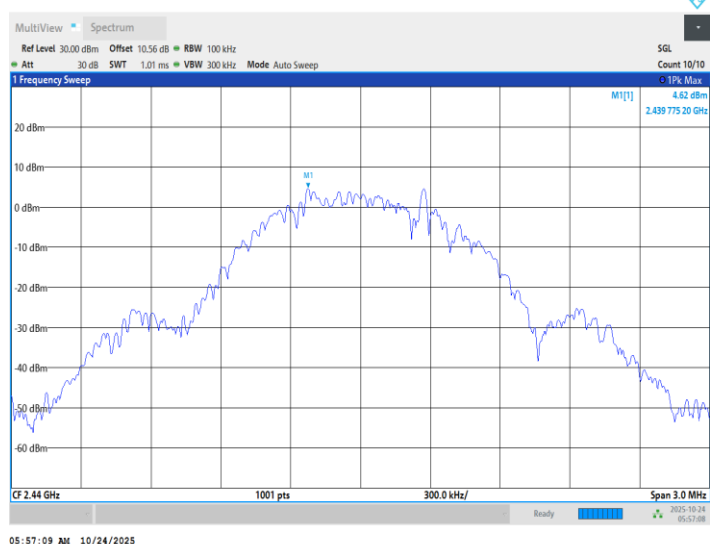
BLE_1M_Ant1_2402_30~1000



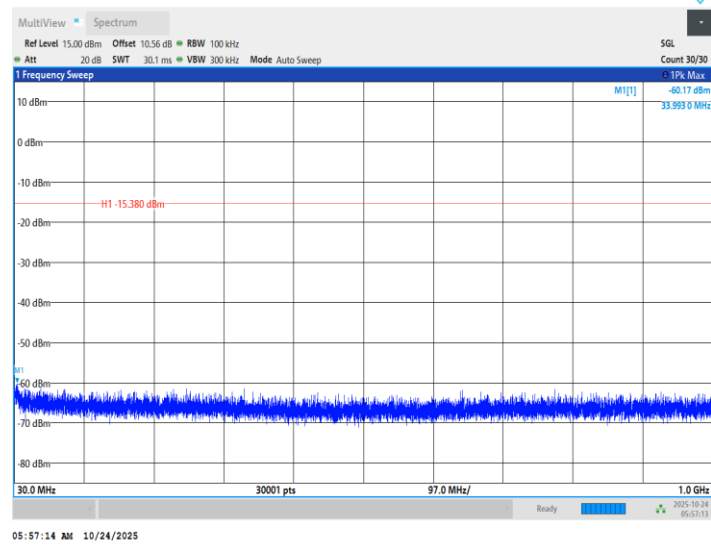
BLE_1M_Ant1_2402_1000~26500



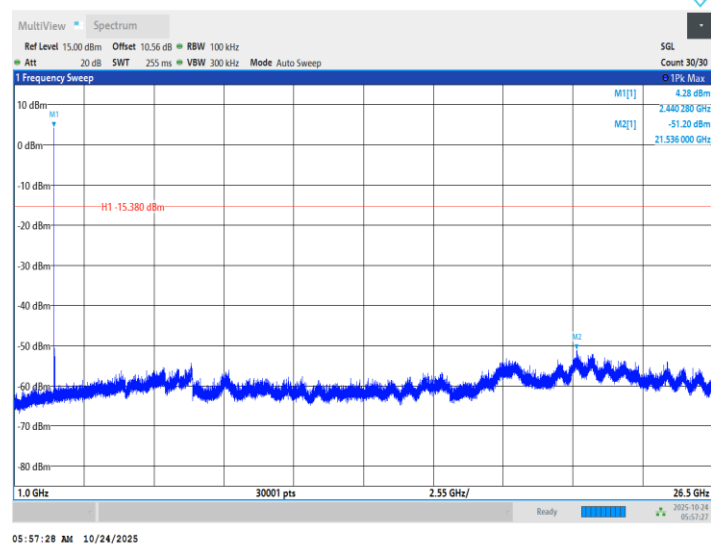
BLE_1M_Ant1_2440_0~Reference



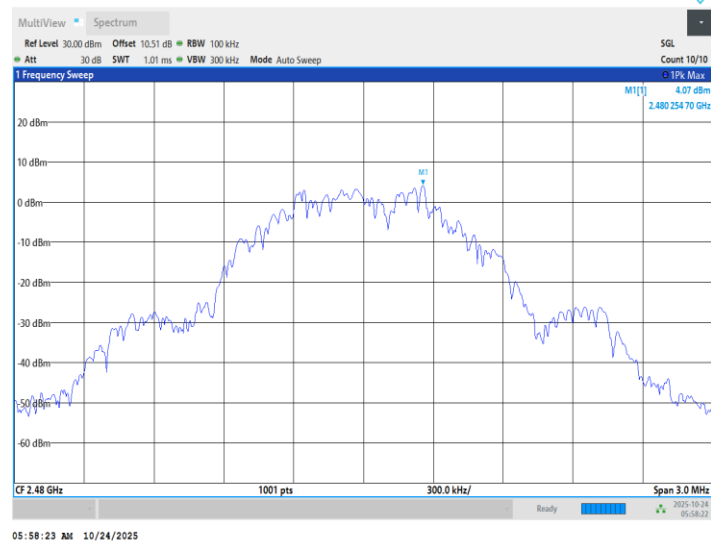
BLE_1M_Ant1_2440_30~1000



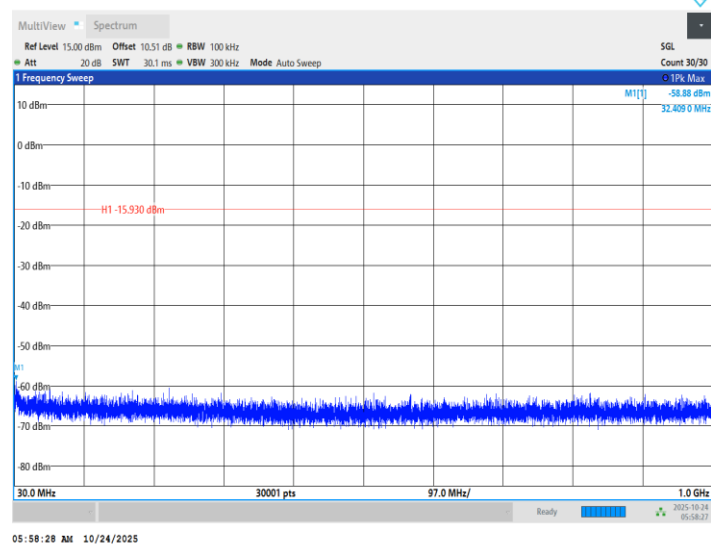
BLE_1M_Ant1_2440_1000~26500



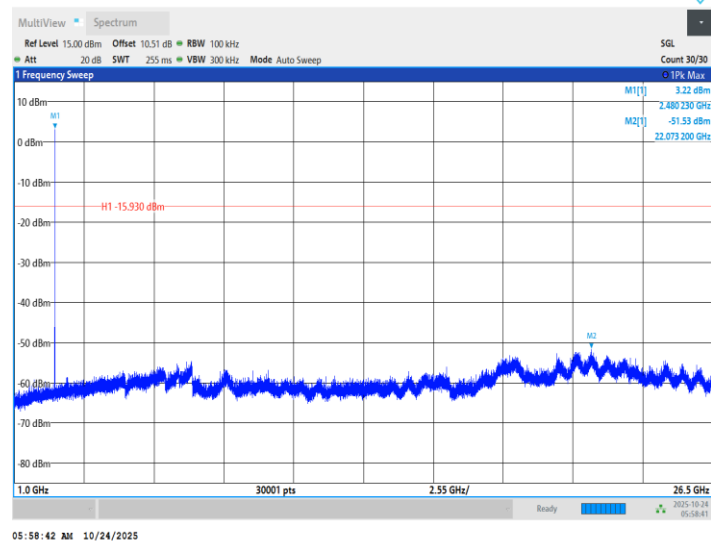
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500





DUTY CYCLE

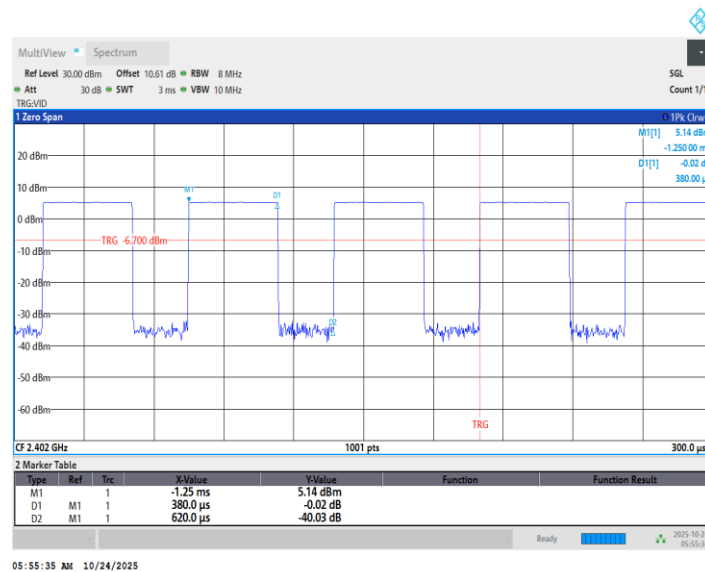
TEST RESULT

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.62	0.6129	61.29	2.13	---	---
		2440	0.39	0.63	0.6190	61.90	2.08	---	---
		2480	0.38	0.62	0.6129	61.29	2.13	---	---

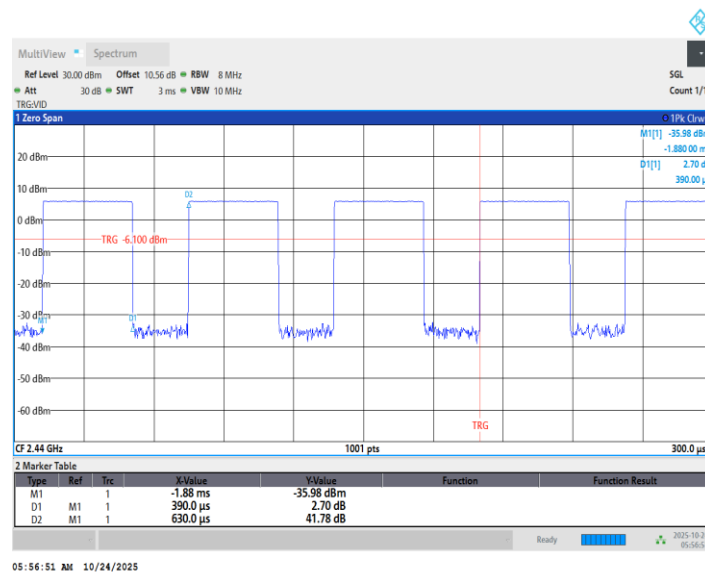


BUREAU VERITAS Test Report No.: PSU-QBJ2509260217RF02
TEST GRAPHS

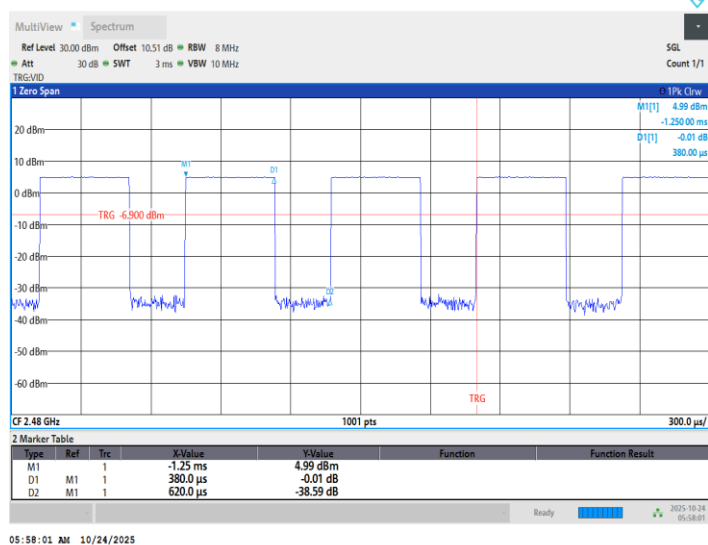
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



--END--