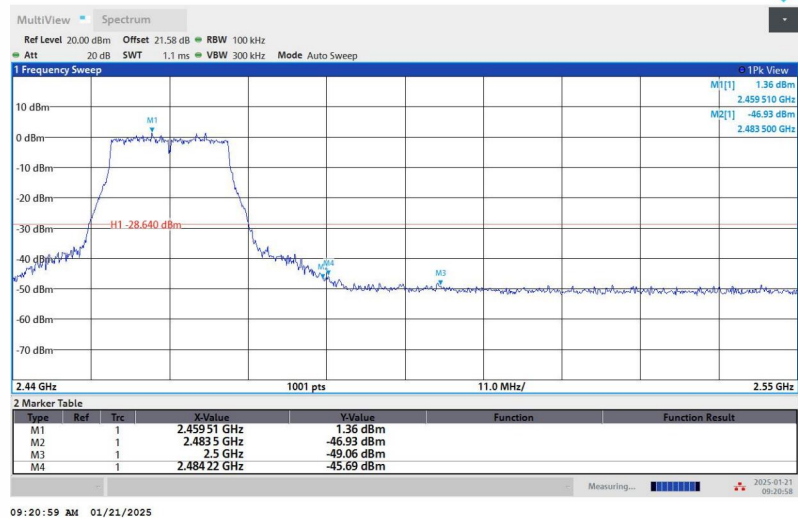


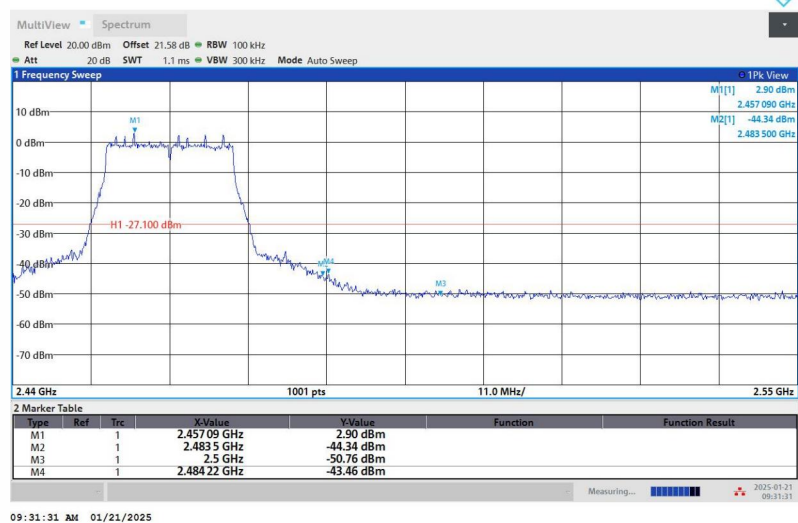
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



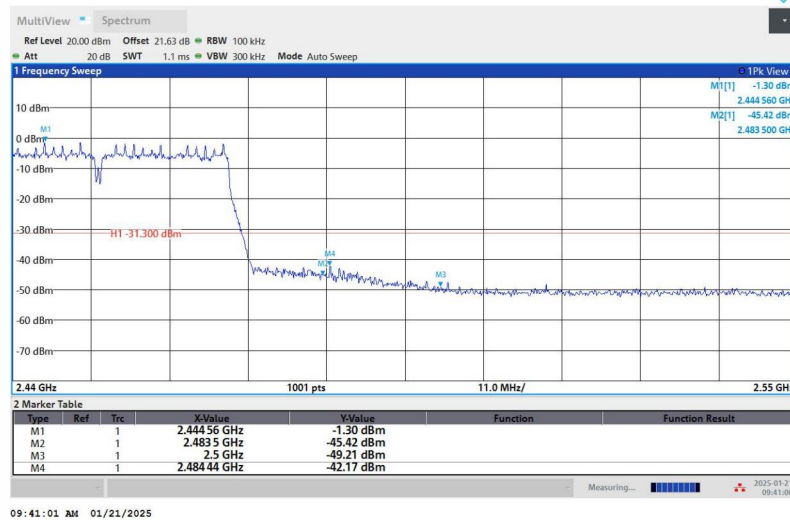
11N20SISO_Ant1_High_2462



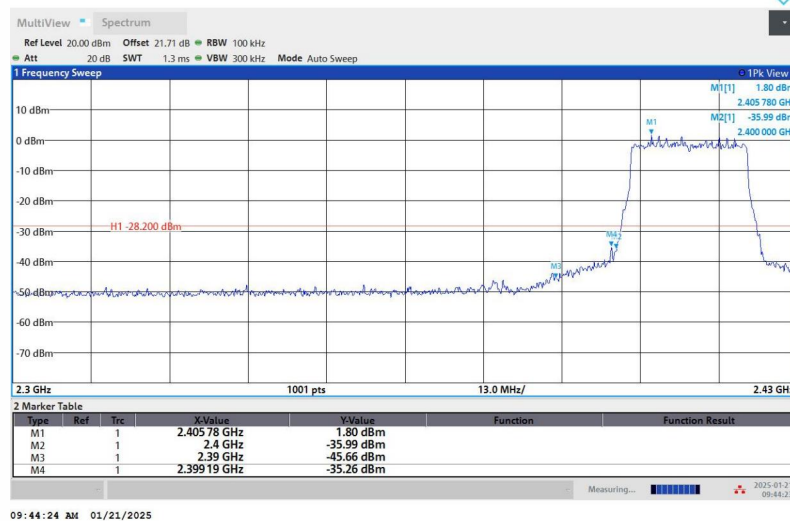
11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



11AX20SISO_Ant1_Low_2412



11AX20SISO_Ant1_High_2462



11AX40SISO_Ant1_Low_2422



11AX40SISO_Ant1_High_2452



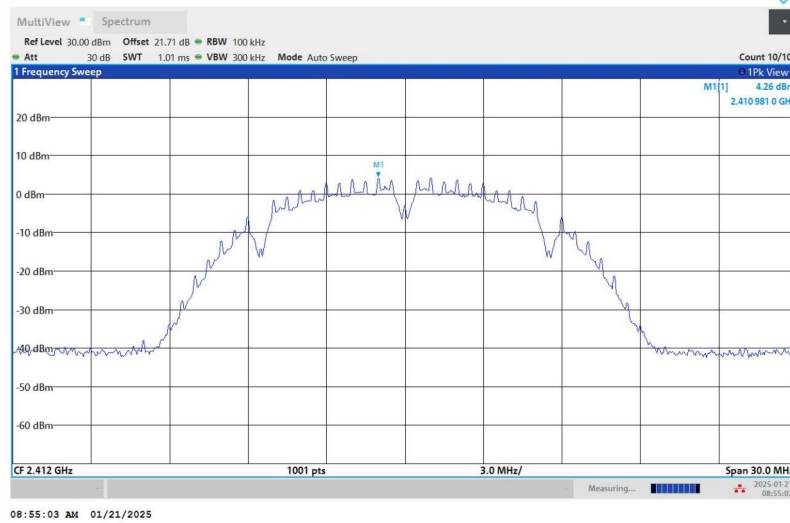
Conducted Spurious Emission

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.26	4.26	---	PASS
			30~1000	4.26	-56.45	≤-25.74	PASS
			1000~26500	4.26	-51.06	≤-25.74	PASS
		2437	Reference	4.06	4.06	---	PASS
			30~1000	4.06	-56.23	≤-25.94	PASS
			1000~26500	4.06	-51.03	≤-25.94	PASS
		2462	Reference	4.21	4.21	---	PASS
			30~1000	4.21	-56.11	≤-25.79	PASS
			1000~26500	4.21	-51.33	≤-25.79	PASS
11G	Ant1	2412	Reference	1.53	1.53	---	PASS
			30~1000	1.53	-56.14	≤-28.47	PASS
			1000~26500	1.53	-50.34	≤-28.47	PASS
		2437	Reference	1.91	1.91	---	PASS
			30~1000	1.91	-56.39	≤-28.09	PASS
			1000~26500	1.91	-51.56	≤-28.09	PASS
		2462	Reference	3.14	3.14	---	PASS
			30~1000	3.14	-56.45	≤-26.86	PASS
			1000~26500	3.14	-50.35	≤-26.86	PASS
11N20SISO	Ant1	2412	Reference	1.90	1.90	---	PASS
			30~1000	1.90	-55.67	≤-28.1	PASS
			1000~26500	1.90	-50.58	≤-28.1	PASS
		2437	Reference	1.93	1.93	---	PASS
			30~1000	1.93	-55.95	≤-28.07	PASS
			1000~26500	1.93	-51.53	≤-28.07	PASS
		2462	Reference	2.89	2.89	---	PASS
			30~1000	2.89	-56.06	≤-27.11	PASS
			1000~26500	2.89	-51.32	≤-27.11	PASS
11N40SISO	Ant1	2422	Reference	-1.63	-1.63	---	PASS
			30~1000	-1.63	-56.72	≤-31.63	PASS
			1000~26500	-1.63	-50.67	≤-31.63	PASS
		2437	Reference	-1.24	-1.24	---	PASS
			30~1000	-1.24	-56.15	≤-31.24	PASS
			1000~26500	-1.24	-50.35	≤-31.24	PASS
		2452	Reference	-1.28	-1.28	---	PASS
			30~1000	-1.28	-56.54	≤-31.28	PASS
			1000~26500	-1.28	-51.38	≤-31.28	PASS
11AX20SISO	Ant1	2412	Reference	1.54	1.54	---	PASS
			30~1000	1.54	-56.18	≤-28.46	PASS
			1000~26500	1.54	-51.23	≤-28.46	PASS
		2437	Reference	1.51	1.51	---	PASS
			30~1000	1.51	-56.45	≤-28.49	PASS
			1000~26500	1.51	-51.09	≤-28.49	PASS
		2462	Reference	2.79	2.79	---	PASS
			30~1000	2.79	-56.37	≤-27.21	PASS
			1000~26500	2.79	-51.37	≤-27.21	PASS

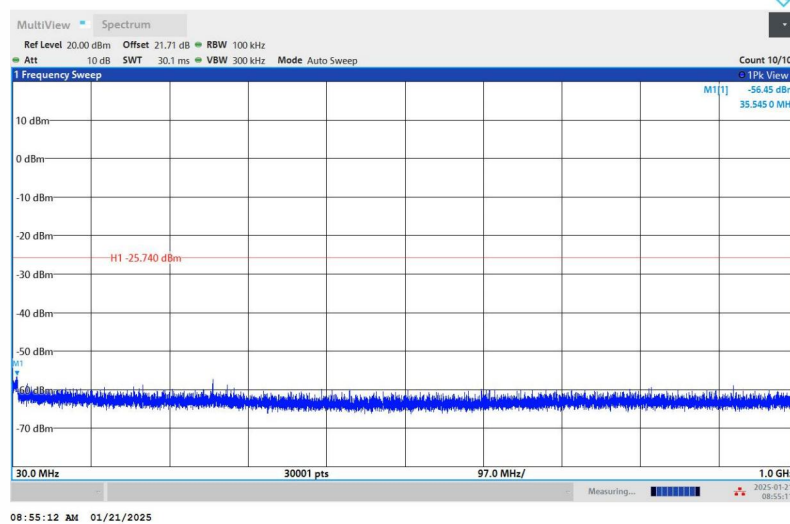
11AX40SISO	Ant1	2422	Reference	-2.17	-2.17	---	PASS
			30~1000	-2.17	-55.9	≤-32.17	PASS
			1000~26500	-2.17	-46.49	≤-32.17	PASS
		2437	Reference	-1.75	-1.75	---	PASS
			30~1000	-1.75	-55.51	≤-31.75	PASS
			1000~26500	-1.75	-51.59	≤-31.75	PASS
		2452	Reference	-1.93	-1.93	---	PASS
			30~1000	-1.93	-55.92	≤-31.93	PASS
			1000~26500	-1.93	-50.65	≤-31.93	PASS



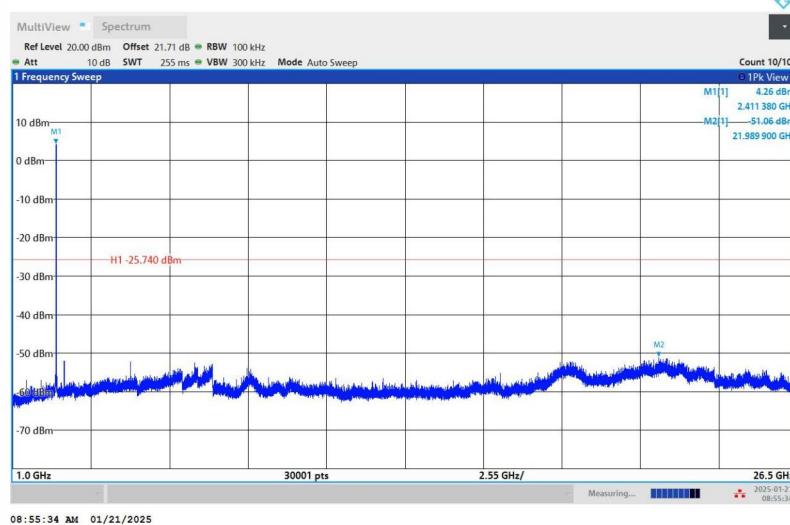
11B_Ant1_2412_0~Reference



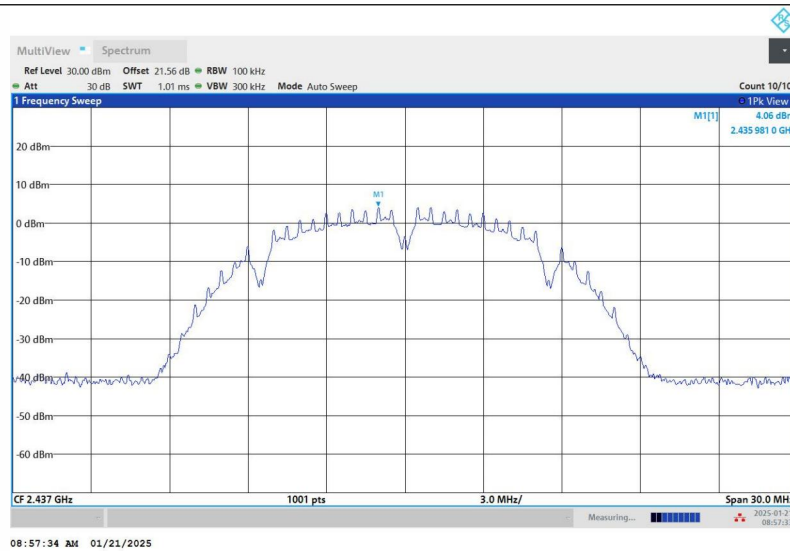
11B_Ant1_2412_30~1000



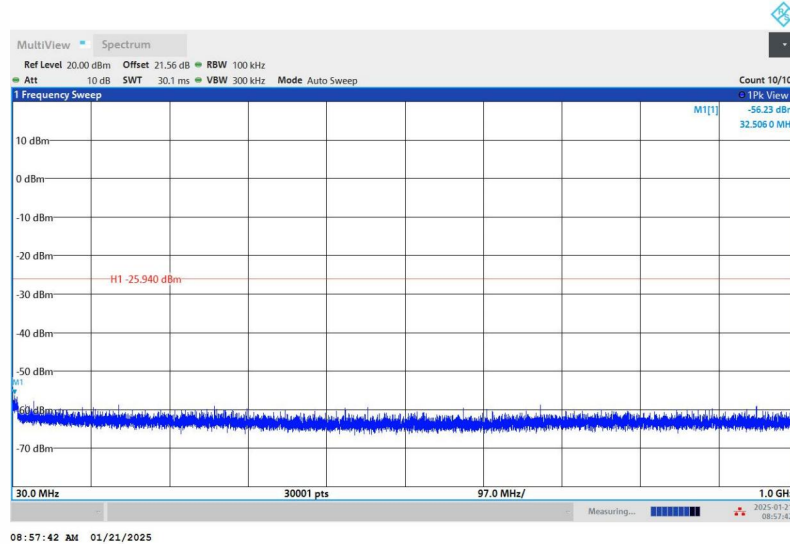
11B_Ant1_2412_1000~26500



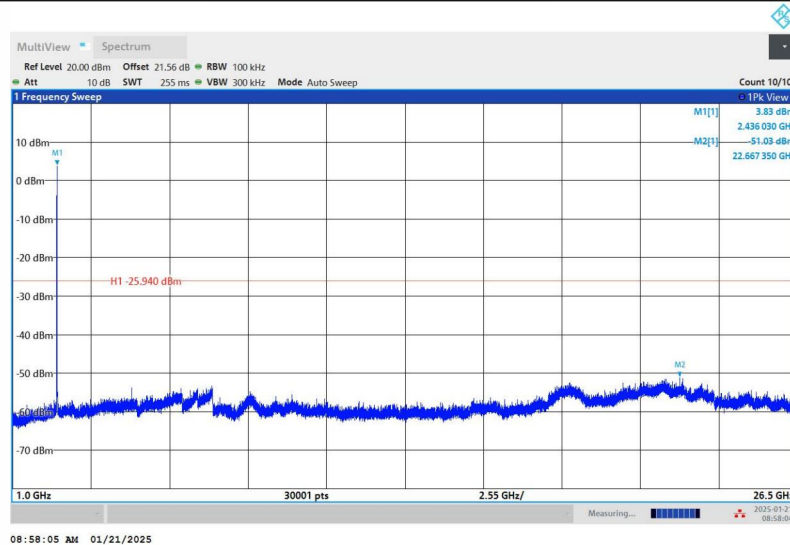
11B_Ant1_2437_0~Reference



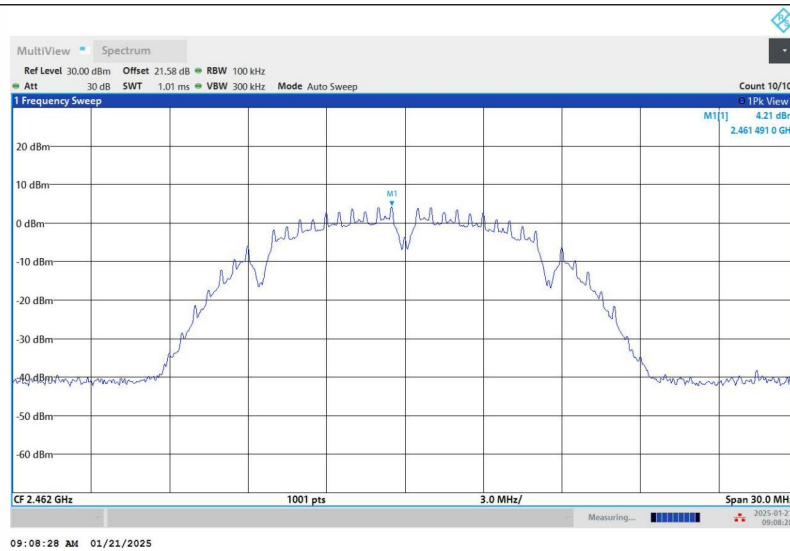
11B_Ant1_2437_30~1000



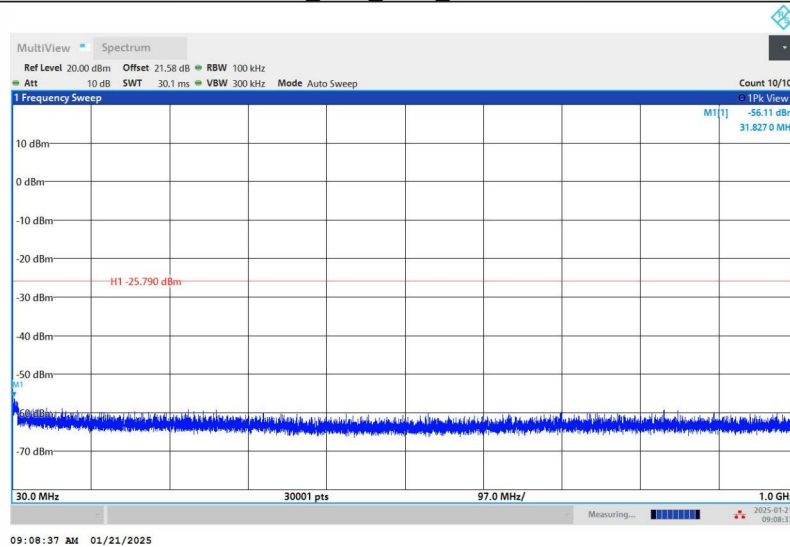
11B_Ant1_2437_1000~26500



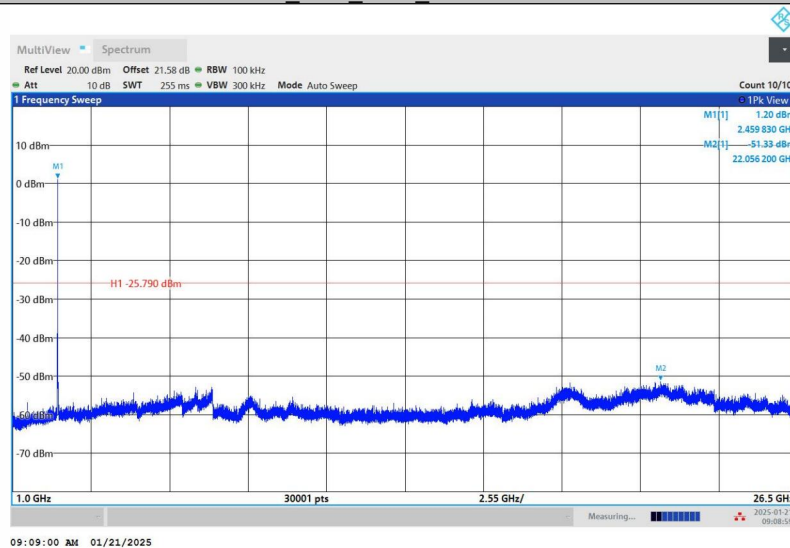
11B_Ant1_2462_0~Reference



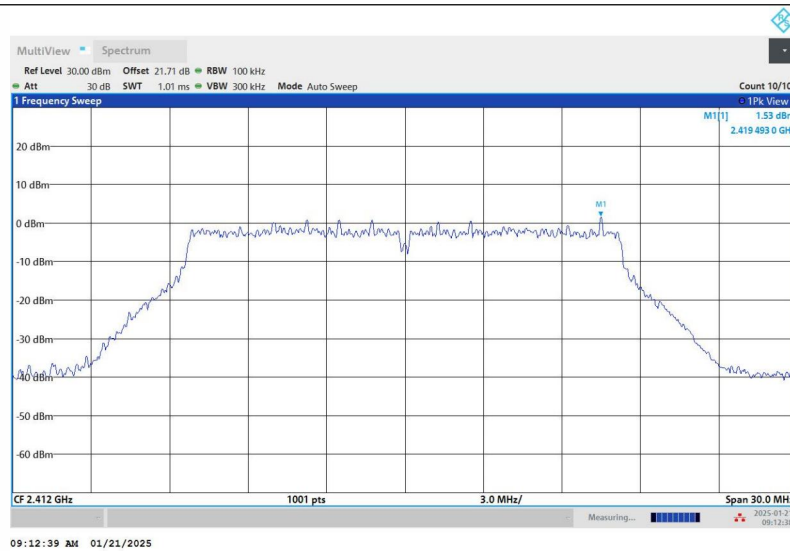
11B_Ant1_2462_30~1000



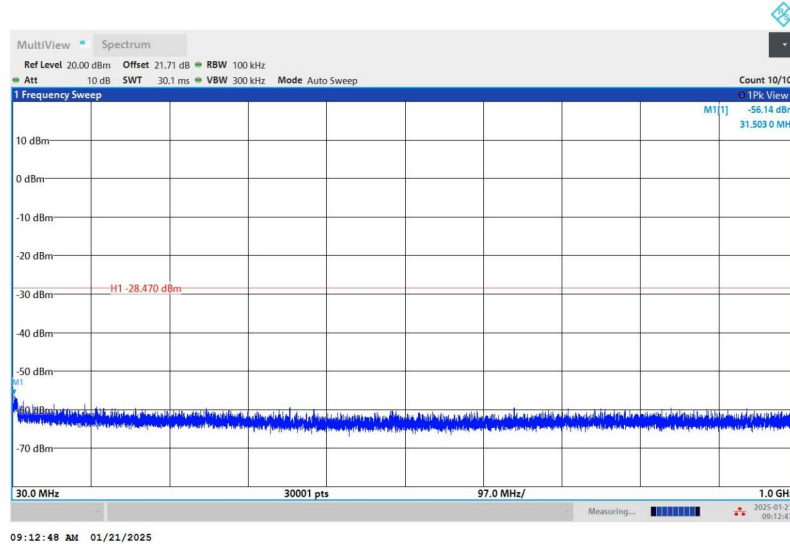
11B_Ant1_2462_1000~26500



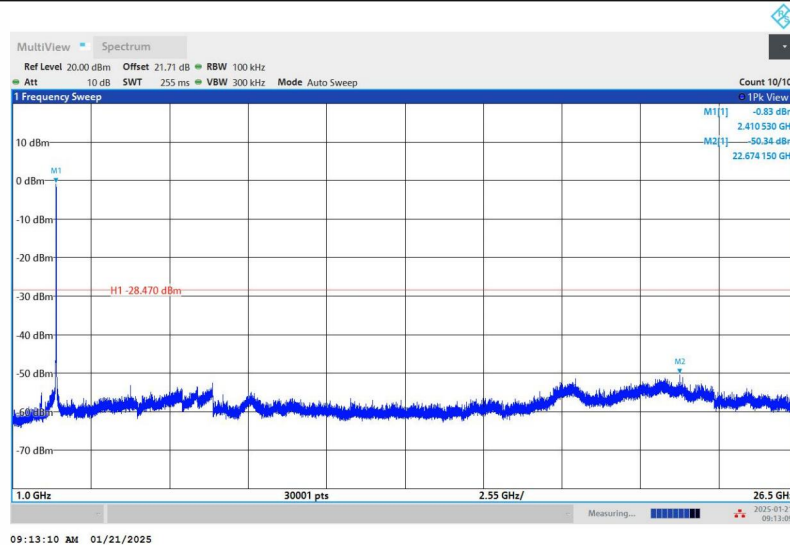
11G_Ant1_2412_0~Reference



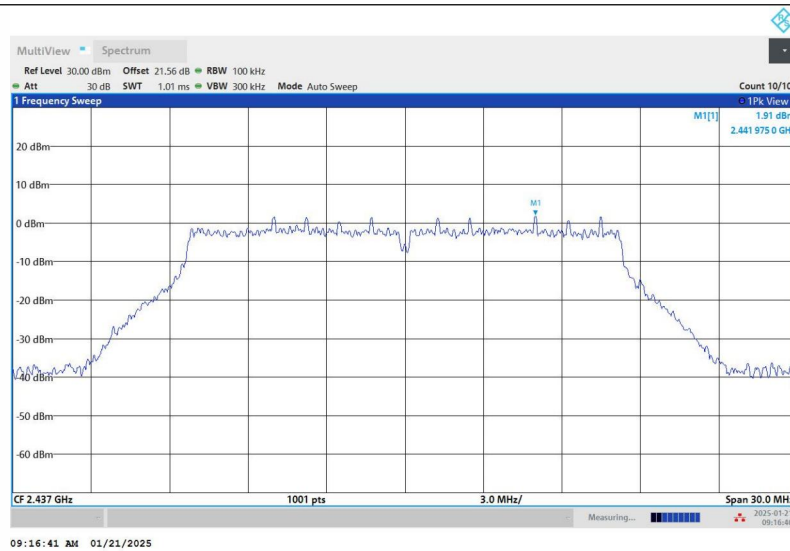
11G_Ant1_2412_30~1000



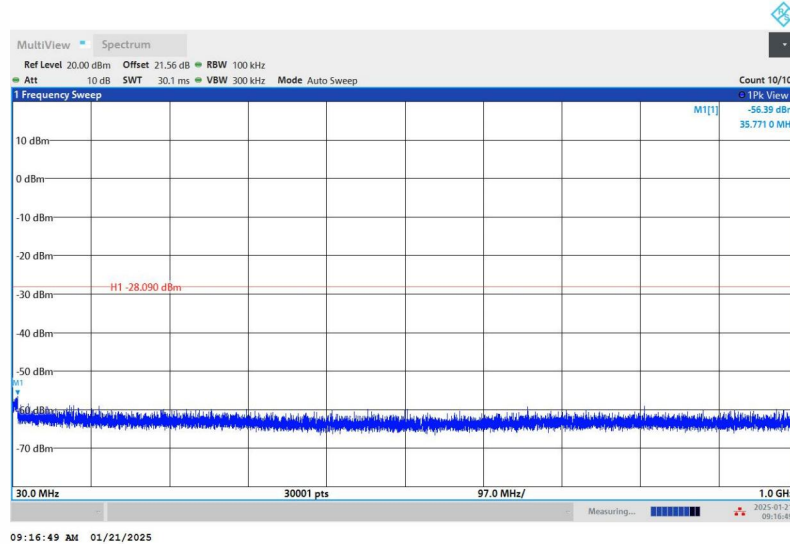
11G_Ant1_2412_1000~26500



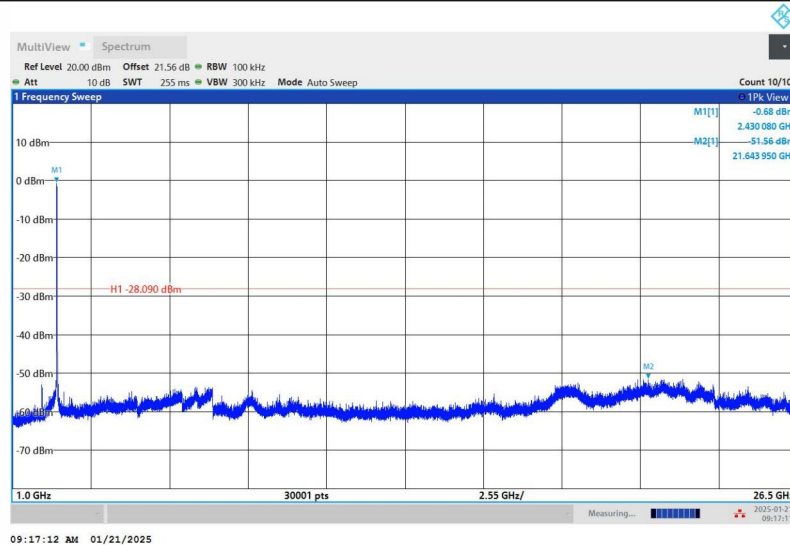
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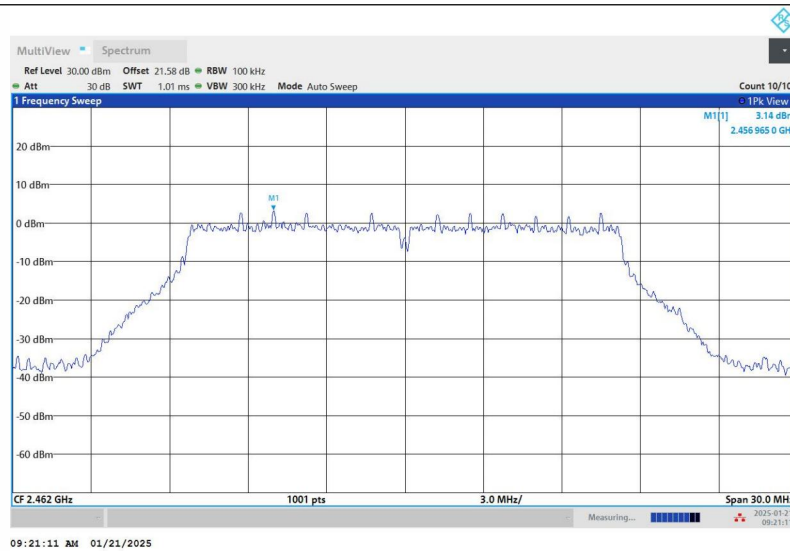
11G_Ant1_2437_30~1000



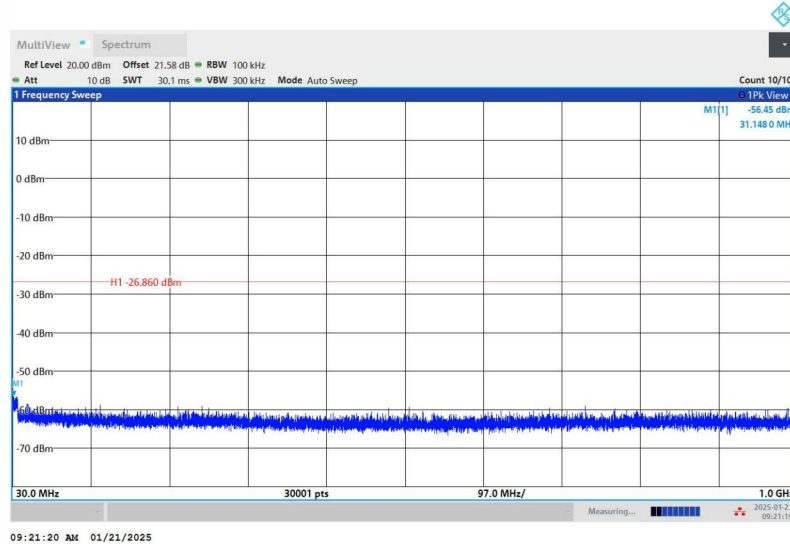
11G_Ant1_2437_1000~26500



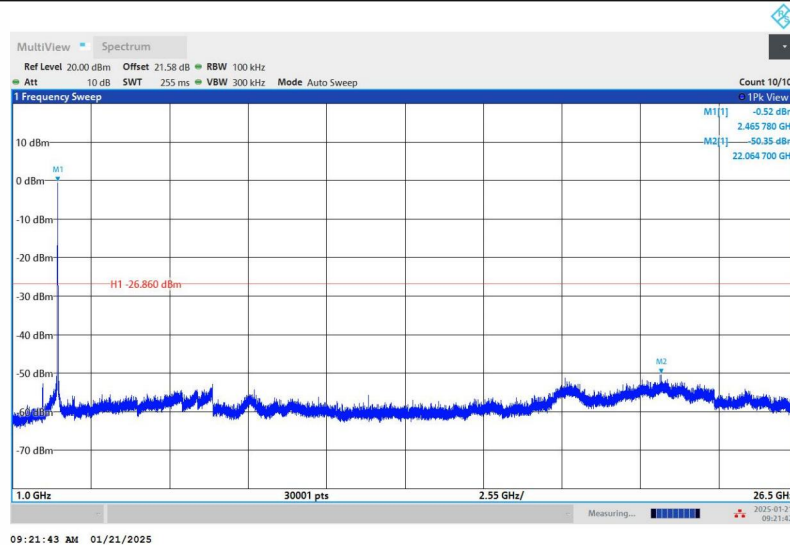
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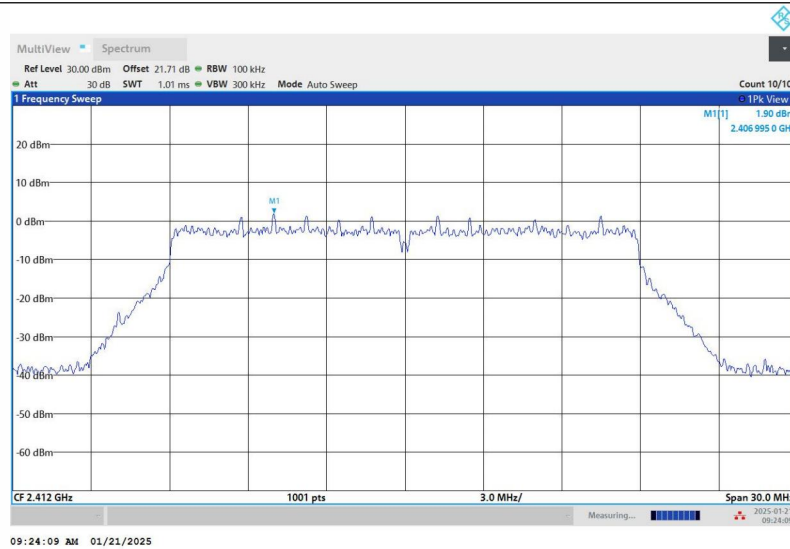
11G_Ant1_2462_30~1000



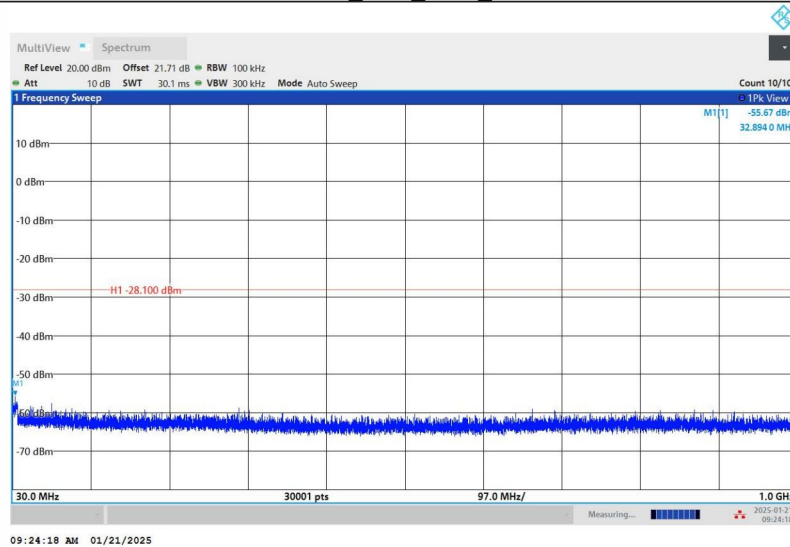
11G_Ant1_2462_1000~26500



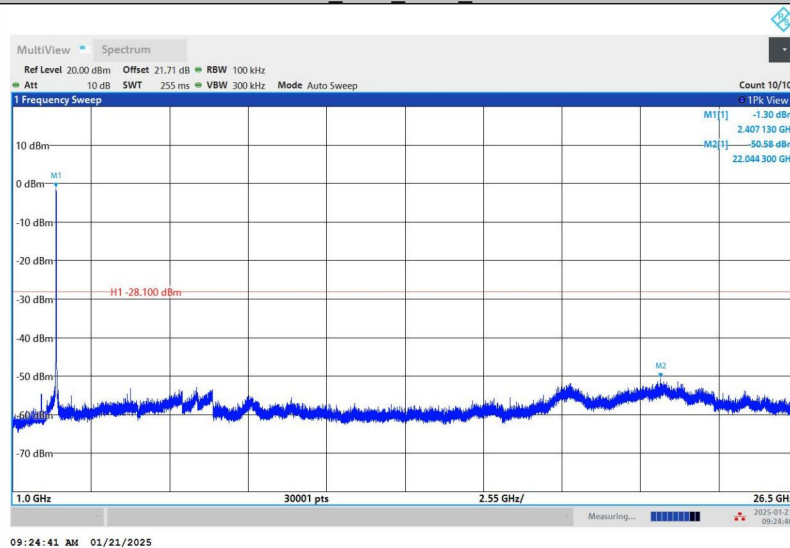
11N20SISO_Ant1_2412_0~Reference



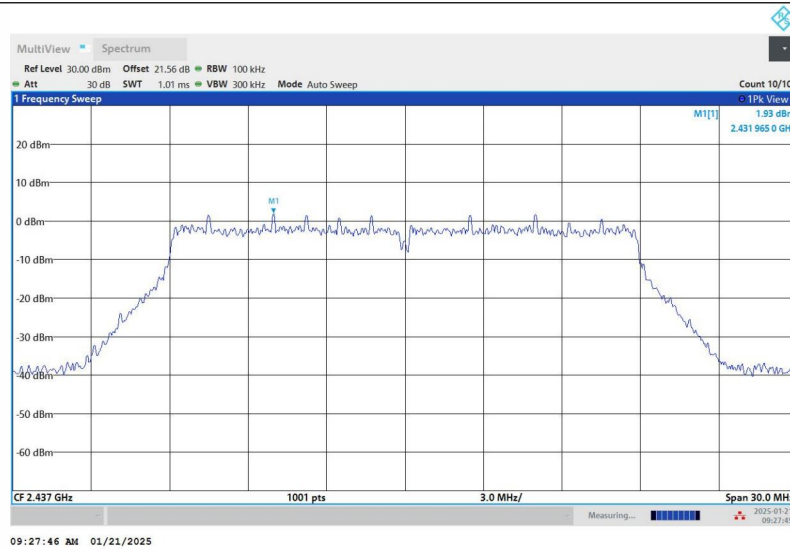
11N20SISO_Ant1_2412_30~1000



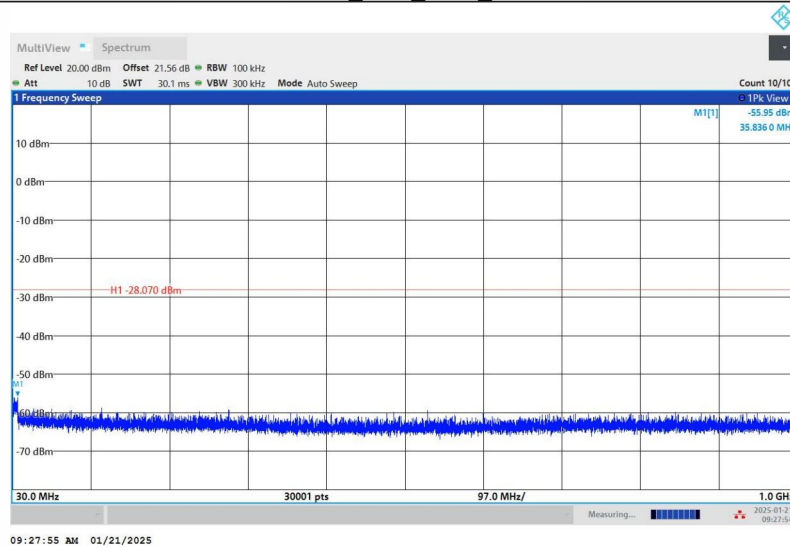
11N20SISO_Ant1_2412_1000~26500



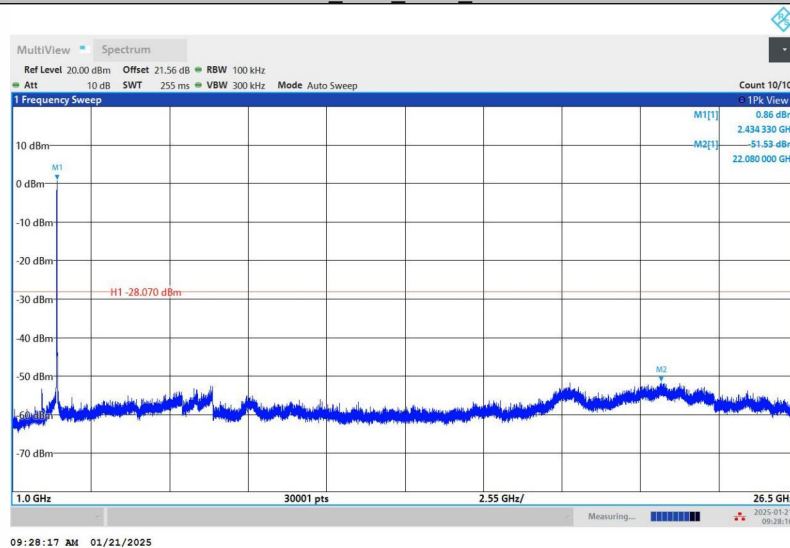
11N20SISO_Ant1_2437_0~Reference



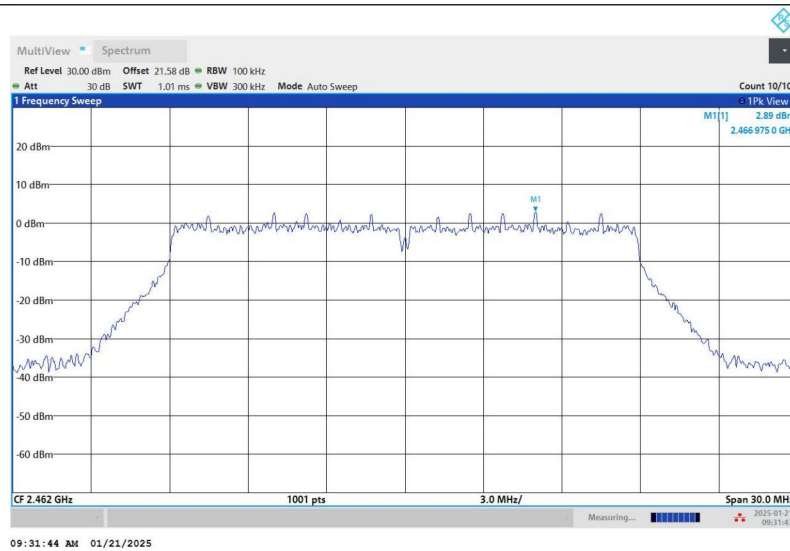
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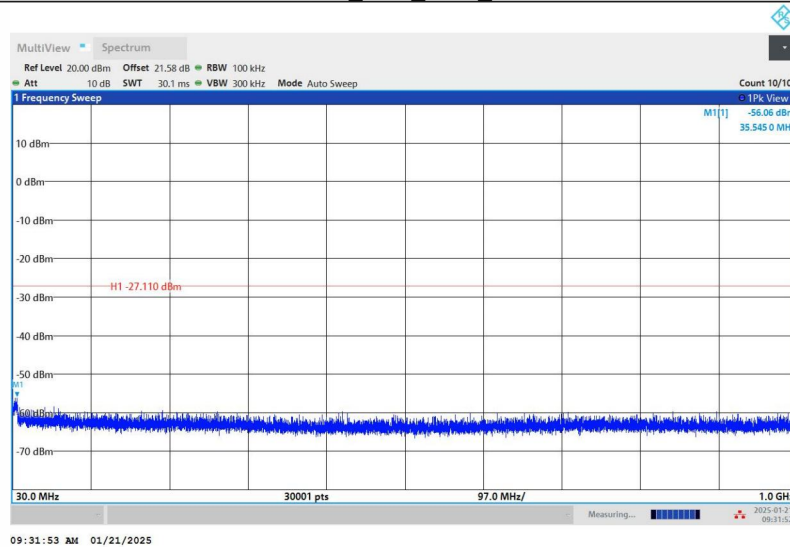
11N20SISO_Ant1_2437_1000~26500



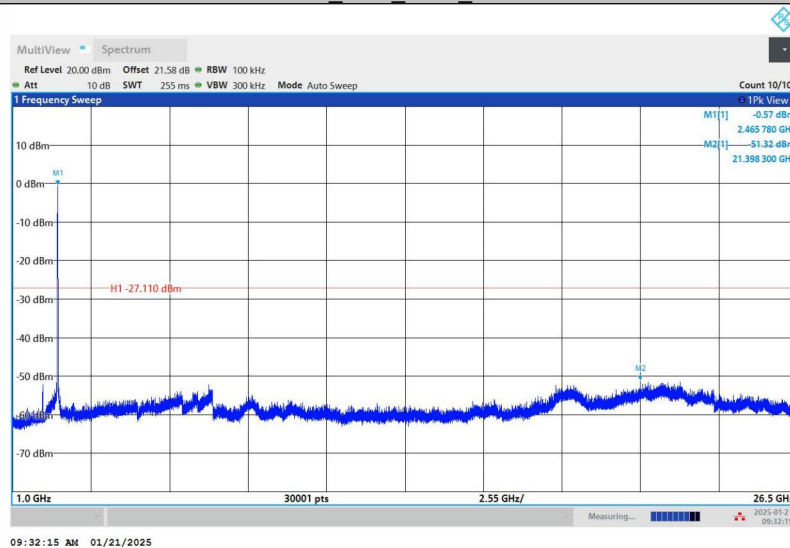
11N20SISO_Ant1_2462_0~Reference



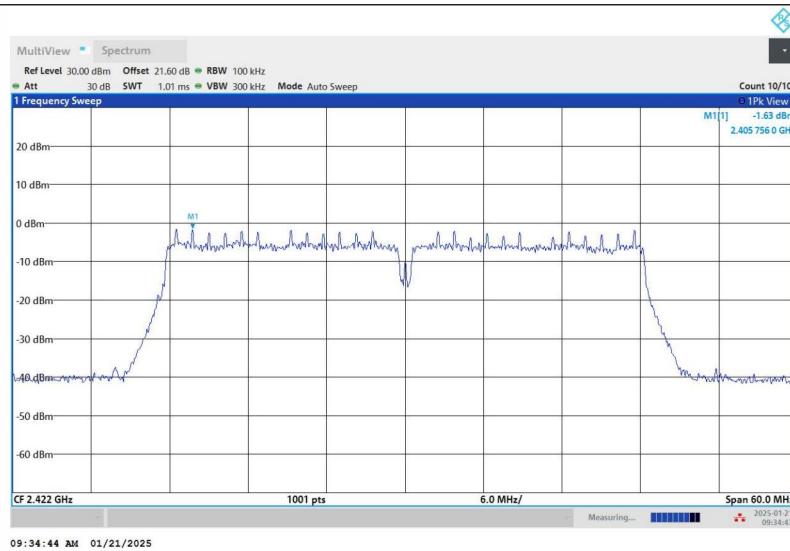
11N20SISO_Ant1_2462_30~1000



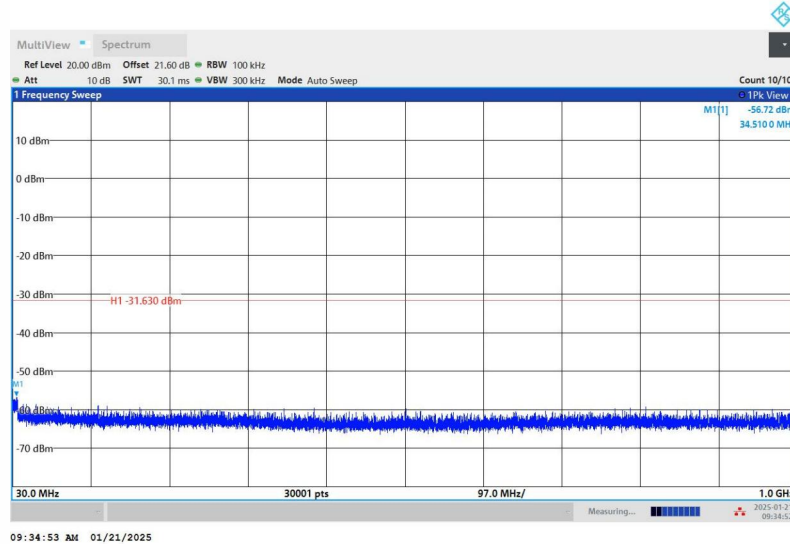
11N20SISO_Ant1_2462_1000~26500



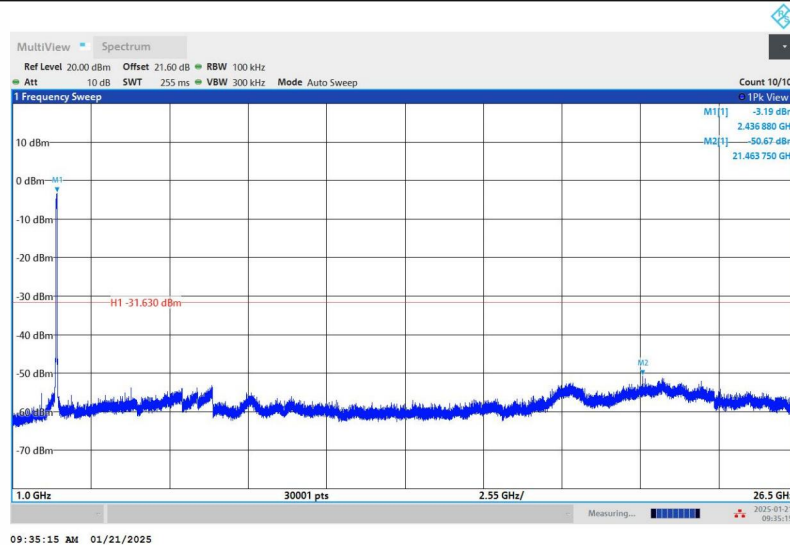
11N40SISO_Ant1_2422_0~Reference



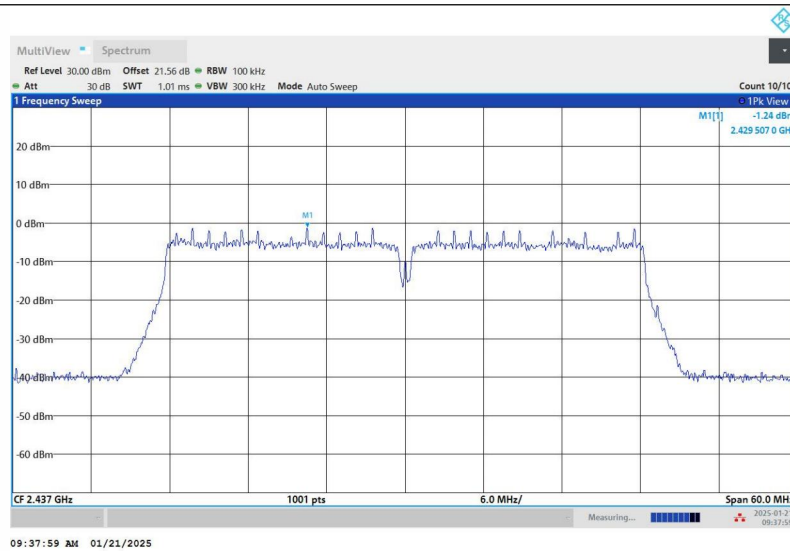
11N40SISO_Ant1_2422_30~1000



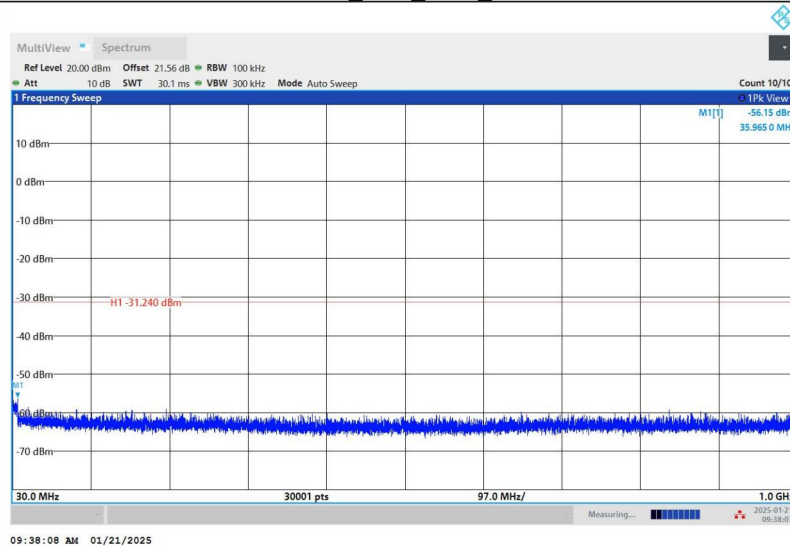
11N40SISO_Ant1_2422_1000~26500



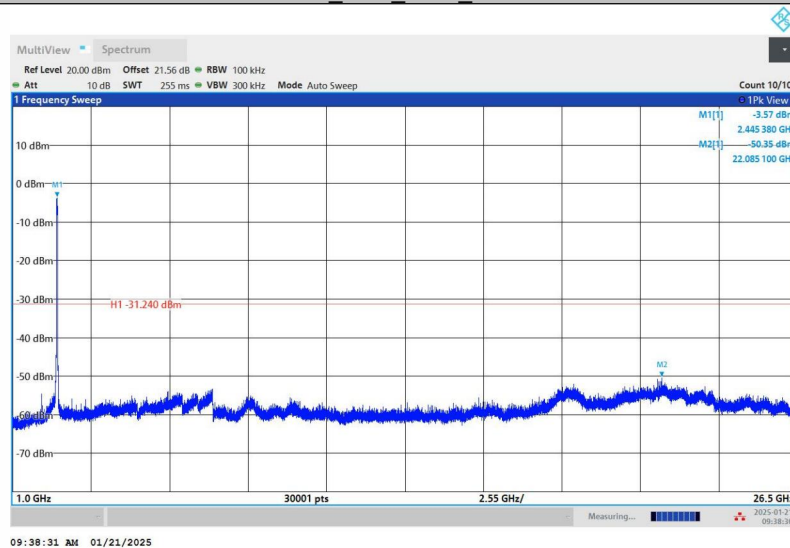
11N40SISO_Ant1_2437_0~Reference



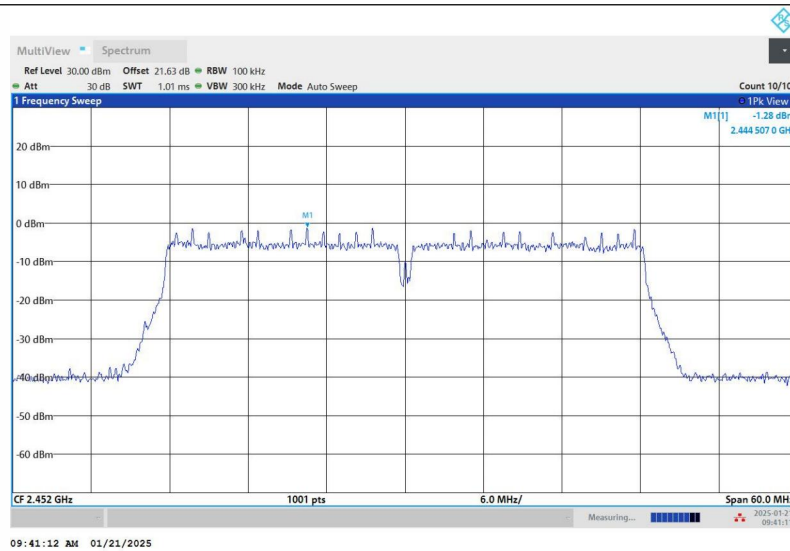
11N40SISO_Ant1_2437_30~1000



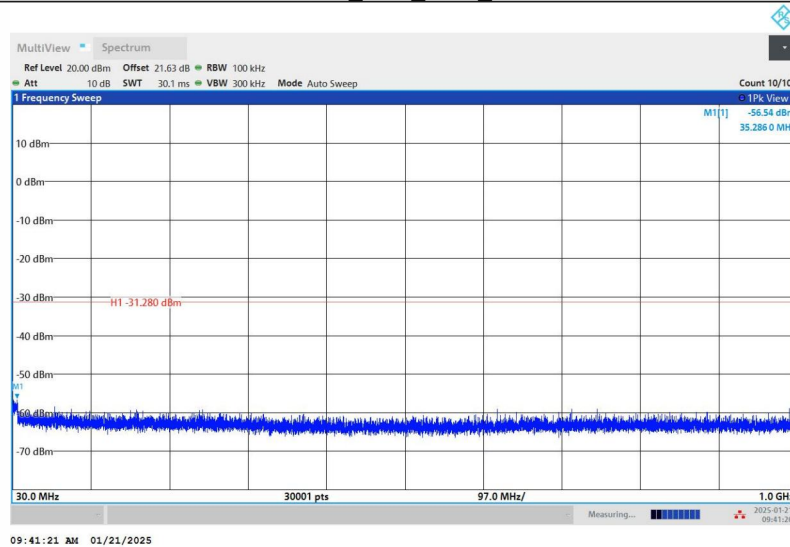
11N40SISO_Ant1_2437_1000~26500



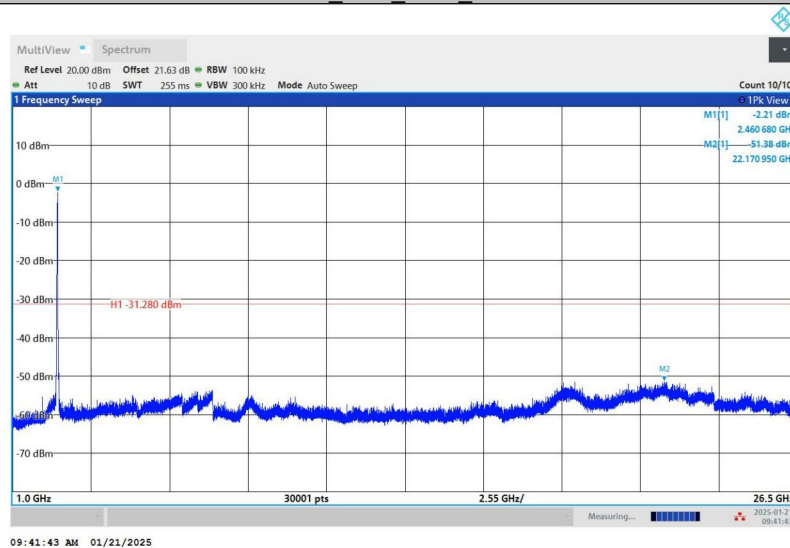
11N40SISO_Ant1_2452_0~Reference



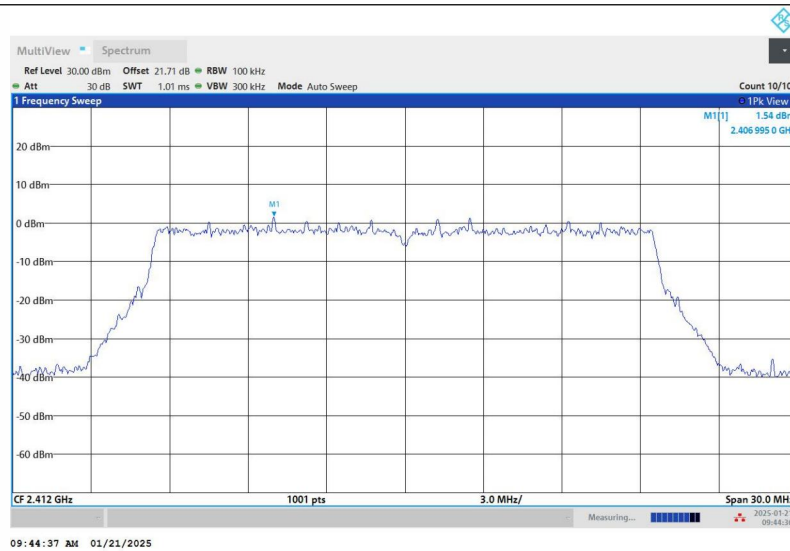
11N40SISO_Ant1_2452_30~1000



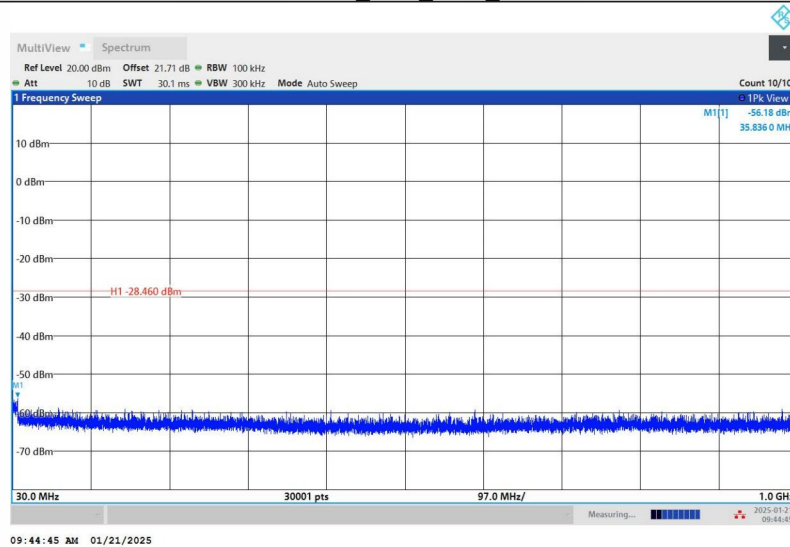
11N40SISO_Ant1_2452_1000~26500



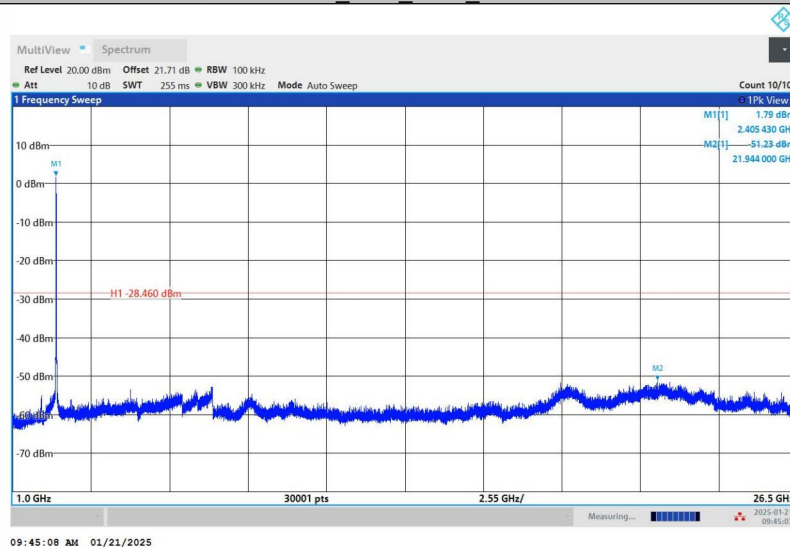
11AX20SISO_Ant1_2412_0~Reference



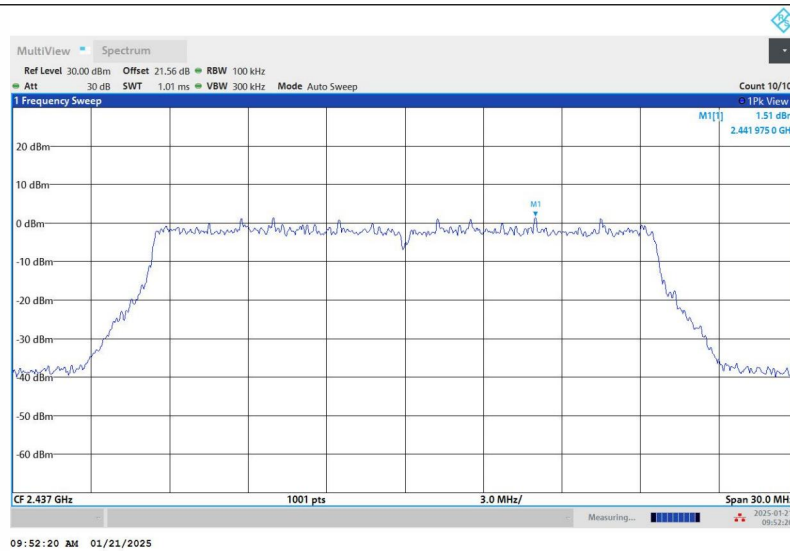
11AX20SISO_Ant1_2412_30~1000



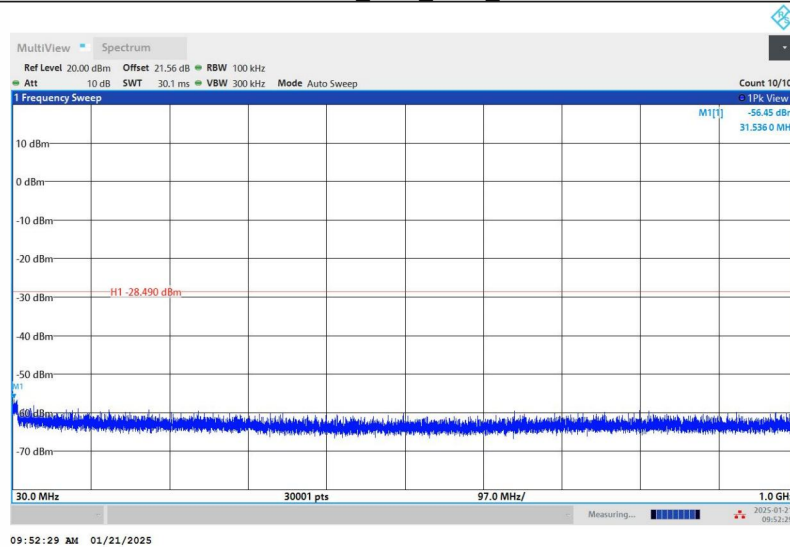
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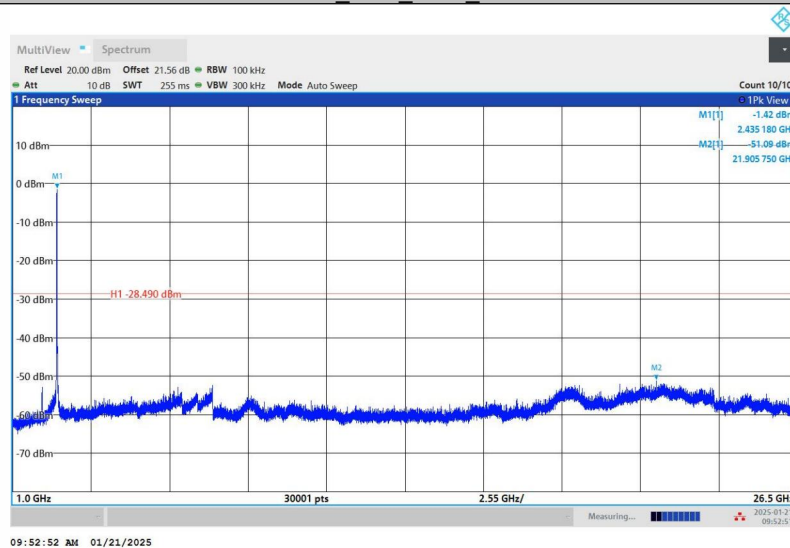
11AX20SISO_Ant1_2437_0~Reference



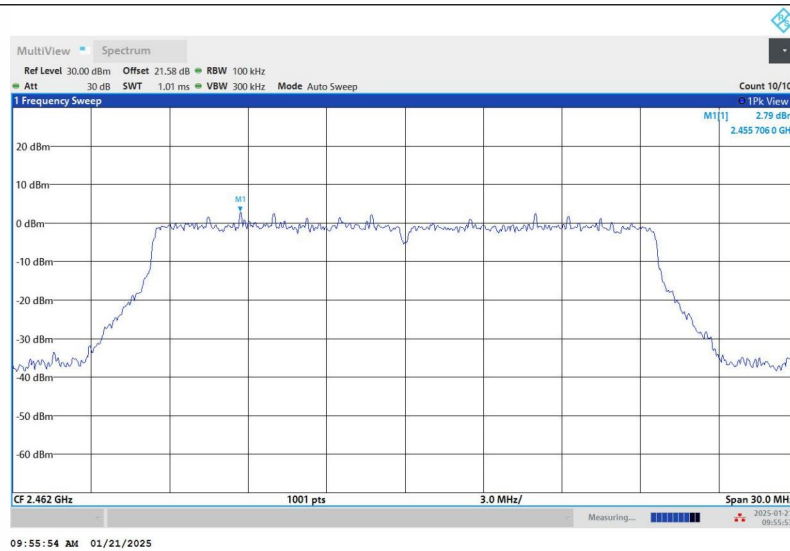
11AX20SISO_Ant1_2437_30~1000



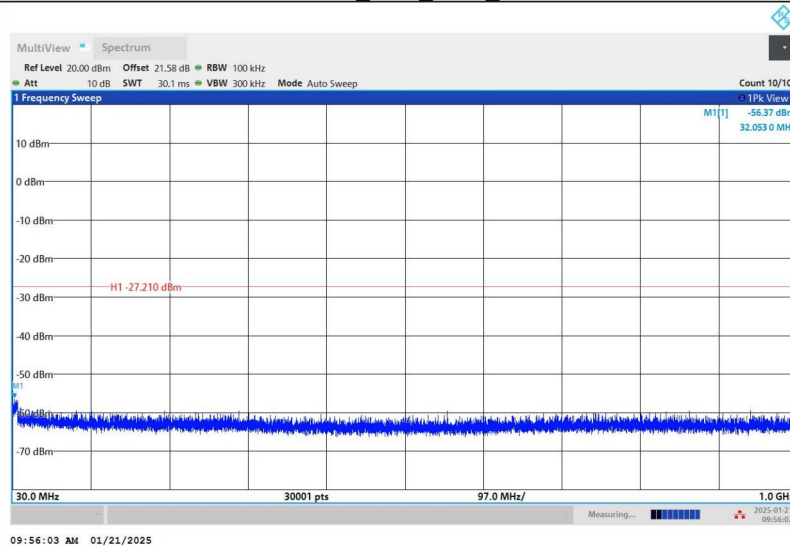
11AX20SISO_Ant1_2437_1000~26500



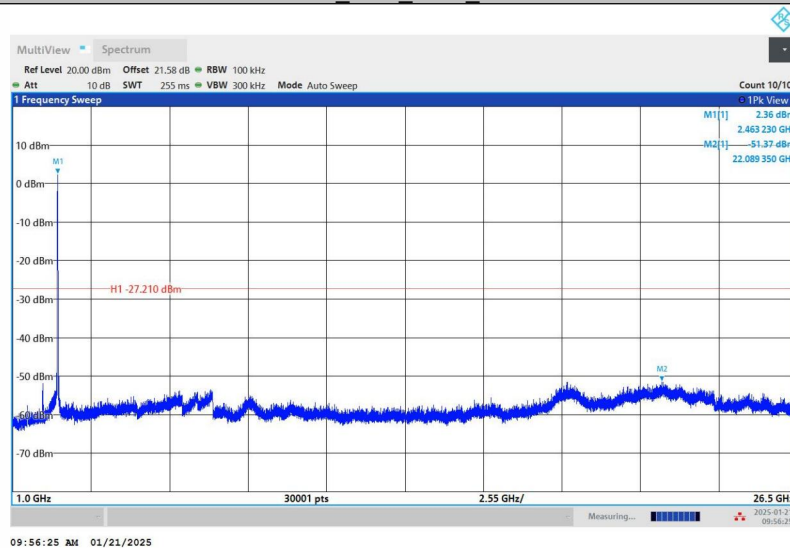
11AX20SISO_Ant1_2462_0~Reference



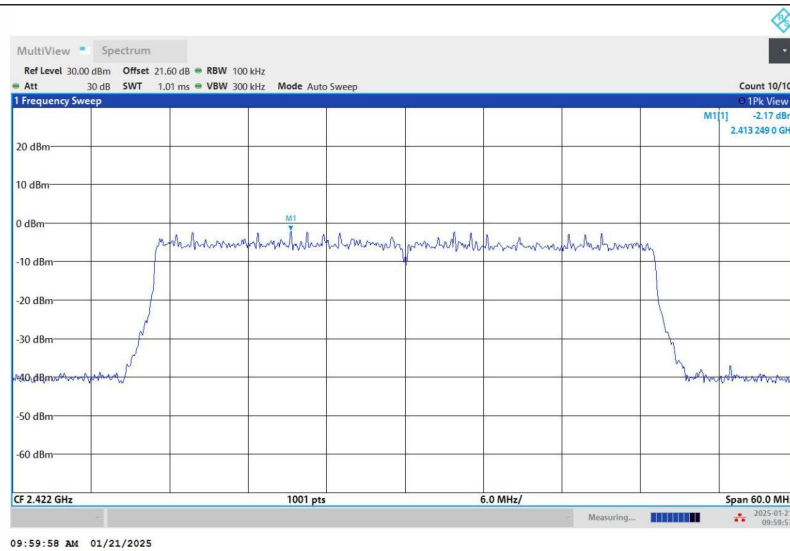
11AX20SISO_Ant1_2462_30~1000



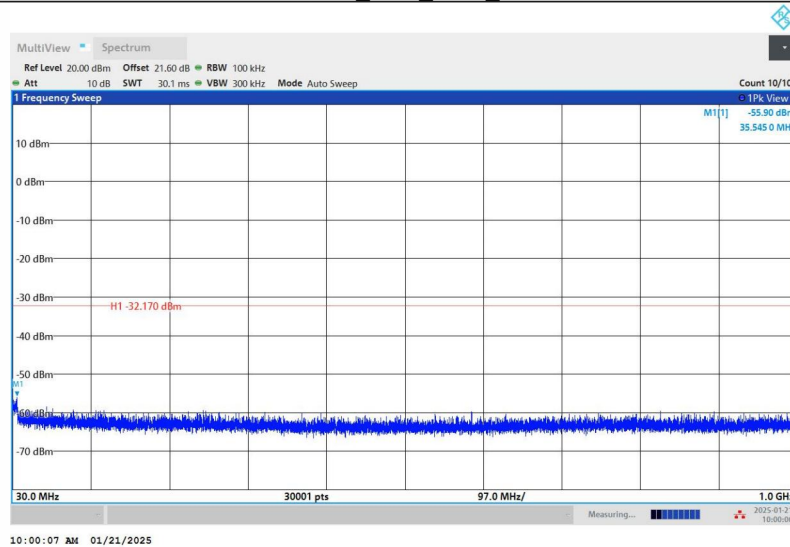
11AX20SISO_Ant1_2462_1000~26500



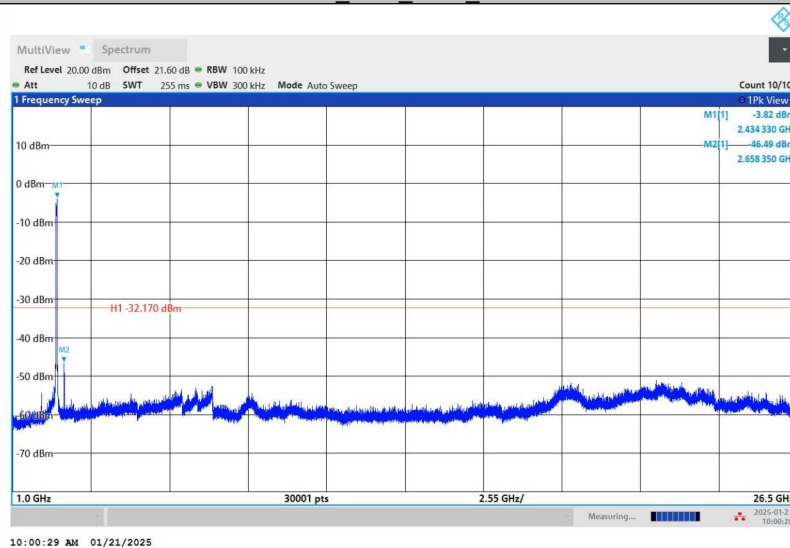
11AX40SISO_Ant1_2422_0~Reference



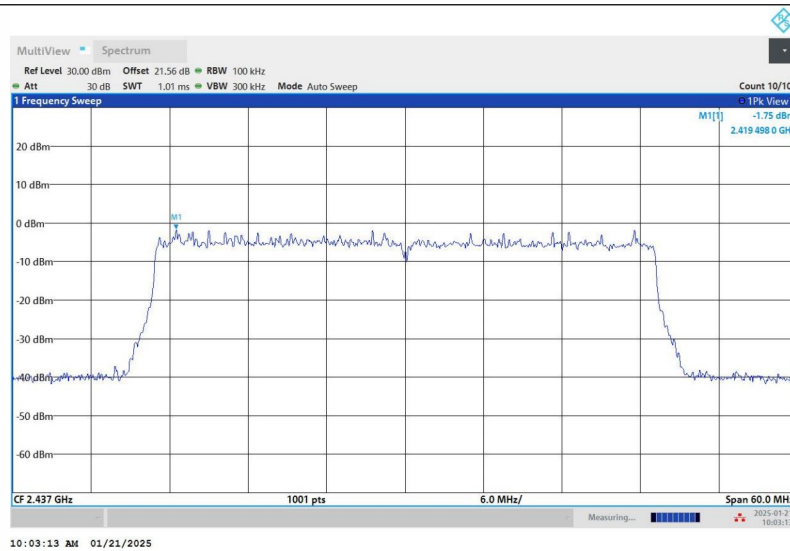
11AX40SISO_Ant1_2422_30~1000



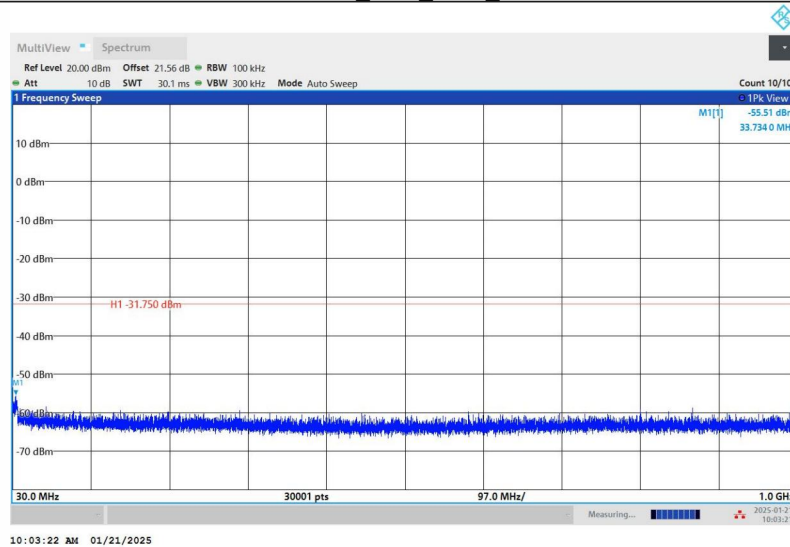
11AX40SISO_Ant1_2422_1000~26500



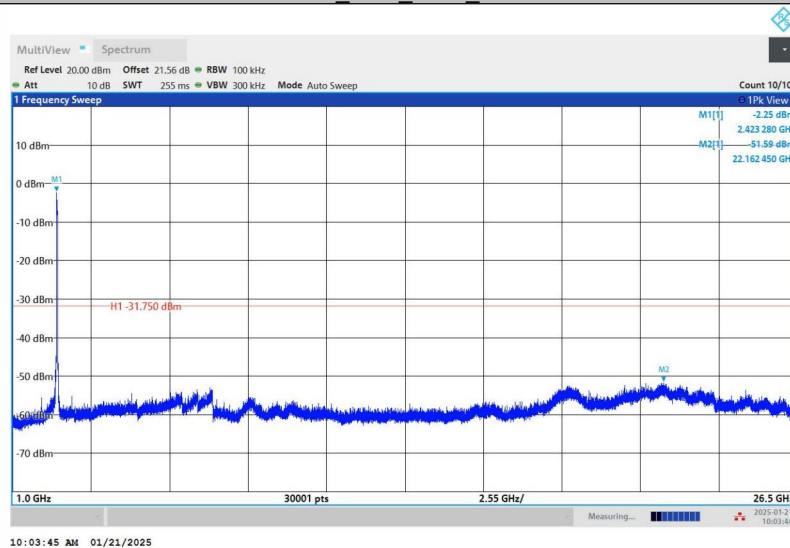
11AX40SISO_Ant1_2437_0~Reference



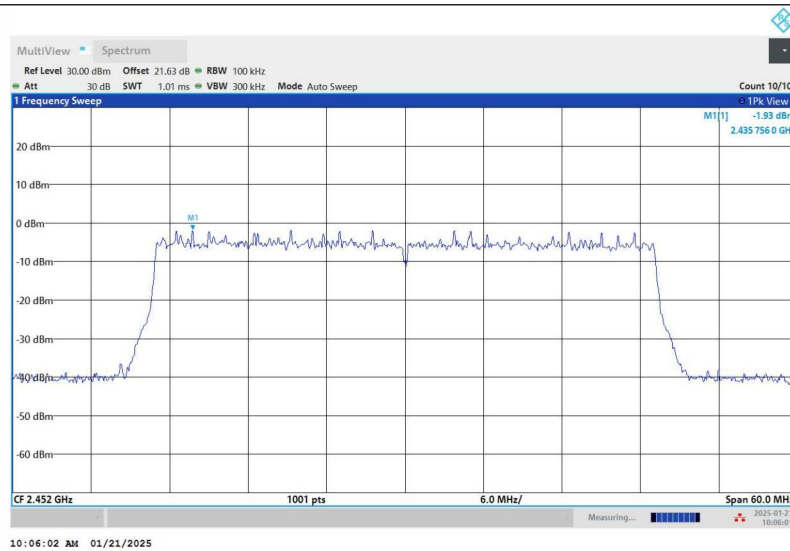
11AX40SISO_Ant1_2437_30~1000



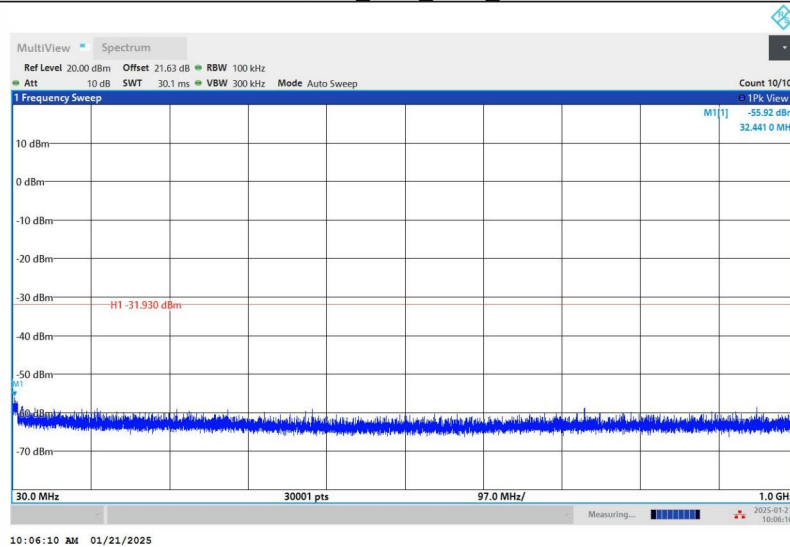
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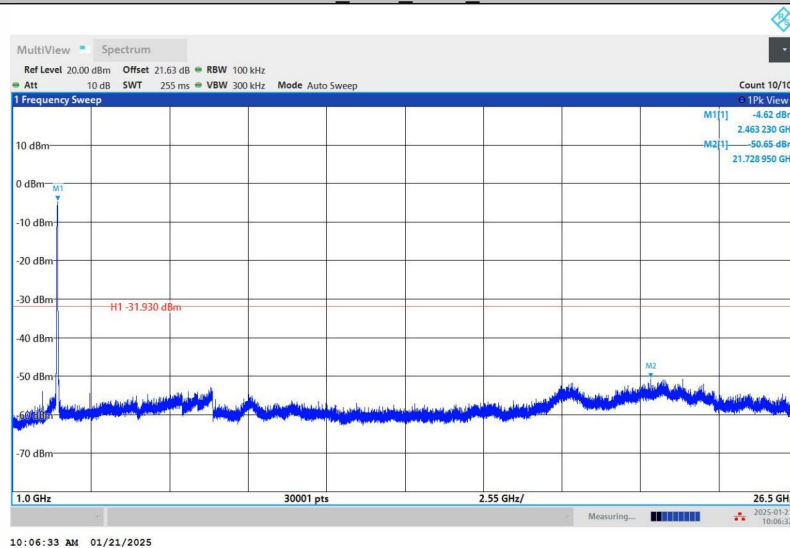
11AX40SISO_Ant1_2452_0~Reference



11AX40SISO_Ant1_2452_30~1000



11AX40SISO_Ant1_2452_1000~26500



7.5 RADIATED EMISSION

7.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02

7.5.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part 15.205 the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

7.5.3 Test Configuration

Test according to clause 6.2 radio frequency test setup

7.5.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

For Above 1GHz:

The EUT was placed on a turn table which is 1.5m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 1GHz:

The EUT was placed on a turn table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Span = wide enough to fully capture the emission being measured

RBW = 100 kHz for

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 30MHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 9kHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 150KHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 200Hz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit. Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

7.5.5 Test Results

Temperature:	28.1° C
Relative Humidity:	43%
ATM Pressure:	1011 mbar

■ Spurious Emission below 30MHz(9KHz to 30MHz)

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor = $40\log(\text{Specific distance}/ \text{test distance})$ (dB);

Limit line = Specific limits(dBuV) + distance extrapolation factor

- Spurious Emission Above 1GHz(1GHz to 25GHz)
- All antenna modes 2.4G 802.11b/g/n/ax have been tested, and the worst result recorded was report as below:

Test mode: 802.11 b Frequency: Channel 1: 2412MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
	H/V	PK	AV	PK	AV	PK	AV
7473.75	V	54.34	39.31	74.00	54.00	19.66	14.69
9946.875	V	61.92	43.07	74.00	54.00	12.08	10.93
12628.12	V	61.43	45.35	74.00	54.00	12.57	8.65
7531.875	H	54.15	39.71	74.00	54.00	19.85	14.29
9967.5	H	61.16	42.95	74.00	54.00	12.84	11.05
12585	H	61.94	45.46	74.00	54.00	12.06	8.54

Test mode: 802.11 b Frequency: Channel 6: 2437MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
	H/V	PK	AV	PK	AV	PK	AV
6879.375	V	53.31	38.51	74.00	54.00	20.69	15.49
9935.625	V	62.93	42.41	74.00	54.00	11.07	11.59
12633.75	V	61.62	45.14	74.00	54.00	12.38	8.86
6106.875	H	50.91	35.11	74.00	54.00	23.09	18.89
9873.75	H	61.74	42.21	74.00	54.00	12.26	11.79
12570	H	61.79	44.49	74.00	54.00	12.21	9.51

Test mode: 802.11 b Frequency: Channel 11: 2462MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Margin(dB)	
	H/V	PK	AV	PK	AV	PK	AV
8441.25	V	56.71	40.66	74.00	54.00	17.29	13.34
9922.5	V	62.15	42.56	74.00	54.00	11.85	11.44
12645	V	61.52	44.78	74.00	54.00	12.48	9.22
7408.125	H	53.09	38.57	74.00	54.00	20.91	15.43
9885	H	61.38	41.95	74.00	54.00	12.62	12.05
12639.37	H	62.32	44.90	74.00	54.00	11.68	9.10

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Corrected Reading= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) Margin = Limit - Corrected Reading
 - (5)The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz
All modes 2.4G 802.11b/g/n have been tested, and the worst result recorded was report as below:

Test mode: 802.11AX Frequency: Channel 1: 2412MHz

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2389.81	H	44.90	74.00	37.77	54.00
2389.73	V	44.85	74.00	38.10	54.00

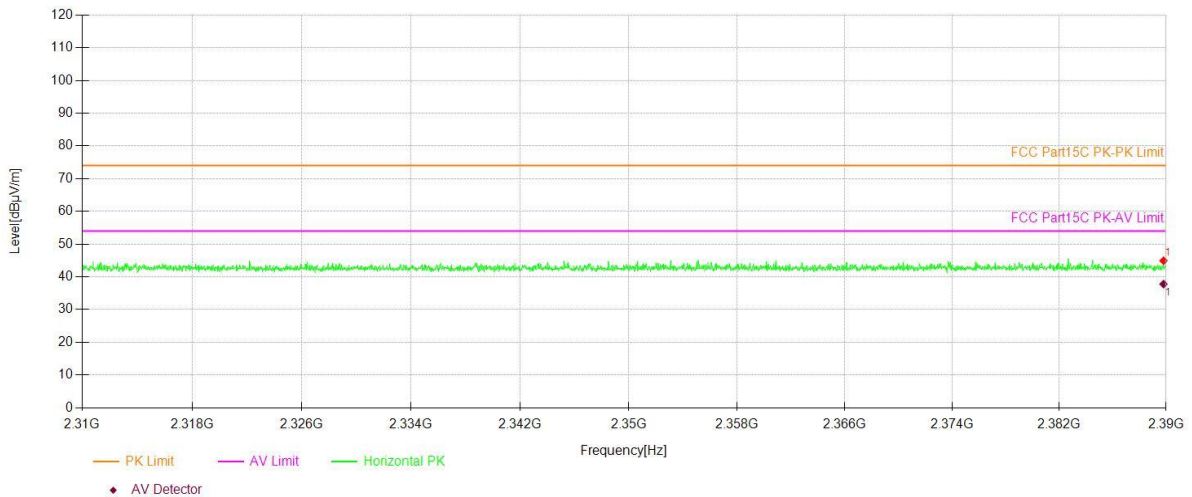
Test mode: 802.11 AX Frequency: Channel 11: 2462MHz

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2483.77	H	45.90	74	38.19	54.00
2484.09	V	46.11	74	38.43	54.00

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Corrected Reading= Reading Level+Correct Factor.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) Margin = Limit - Corrected Reading
 - (5)The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

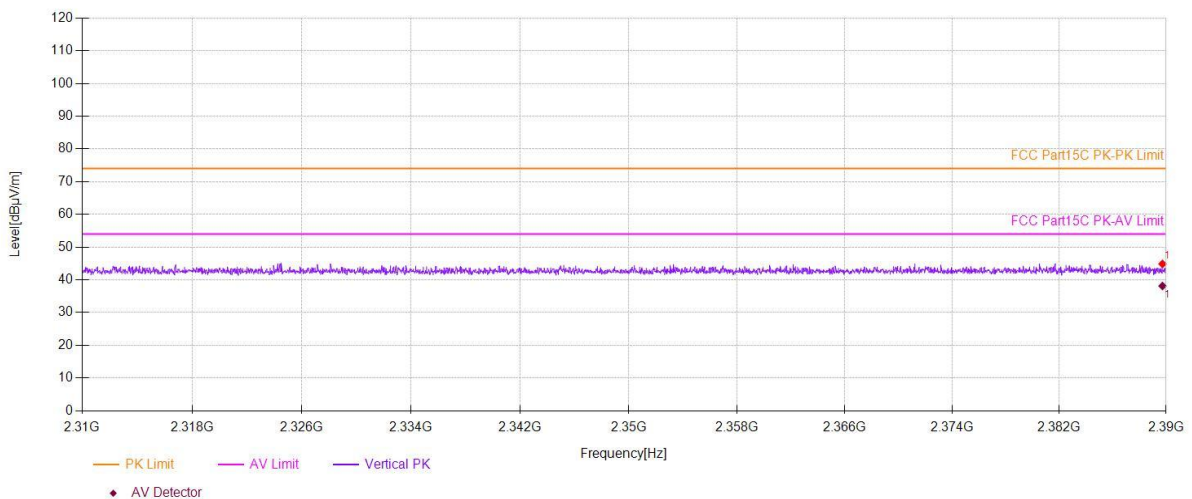
Spurious Emission in Restricted Band 2310-2390MHz

Test Model ☐ 802.11b ☐ 802.11g ☒ 802.11ax(HE20) ☐ 802.11n(HT40)
☒ Channel 1:2412MHz ☐ Channel 3: 2422MHz Polarity: H
 VBW=3MHz



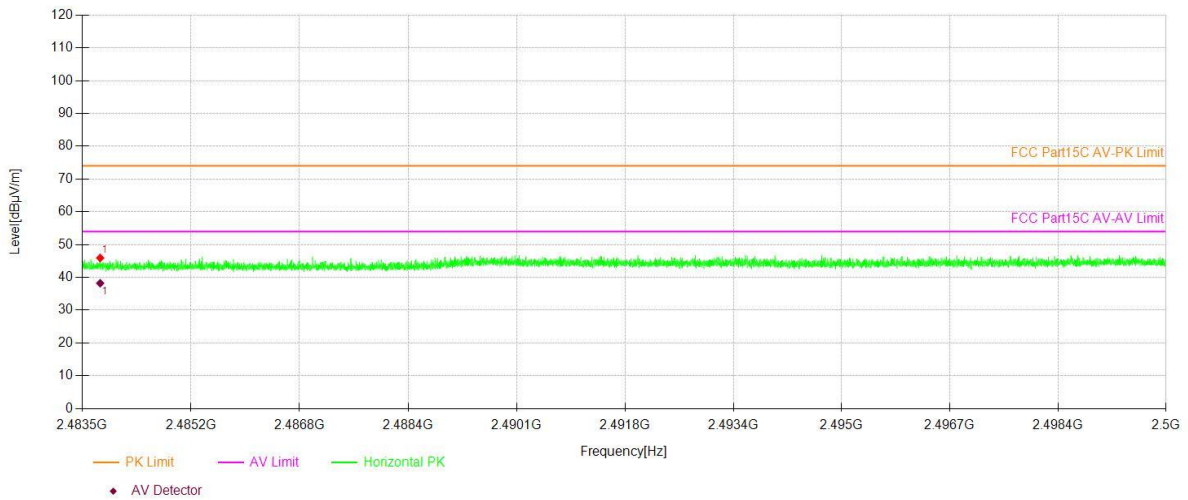
Spurious Emission in Restricted Band 2310-2390MHz

Test Model ☐ 802.11b ☐ 802.11g ☒ 802.11ax(HE20) ☐ 802.11n(HT40)
☒ Channel 1:2412MHz ☐ Channel 3: 2422MHz Polarity: V
 VBW=3MHz



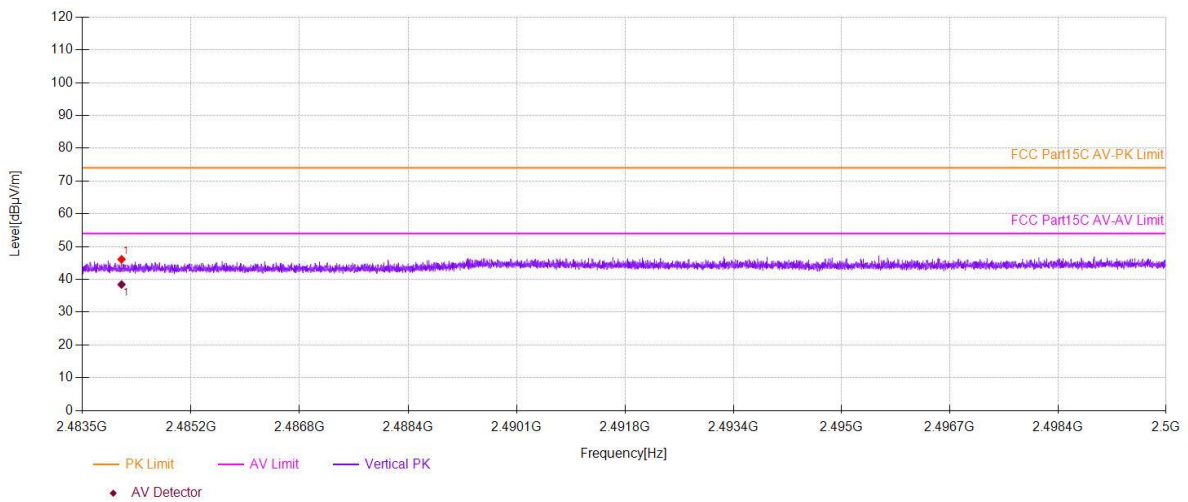
Spurious Emission in Restricted Band 2483.5-2500MHz

Test Model	☐ 802.11b	☐ 802.11g	☒ 802.11ax(HE20)	☐ 802.11n(HT40)
	☒ Channel 11: 2462MHz	☐ Channel 9: 2452MHz		
	VBW=3MHz			
	Polarity: H			



Spurious Emission in Restricted Band 2483.5-2500MHz

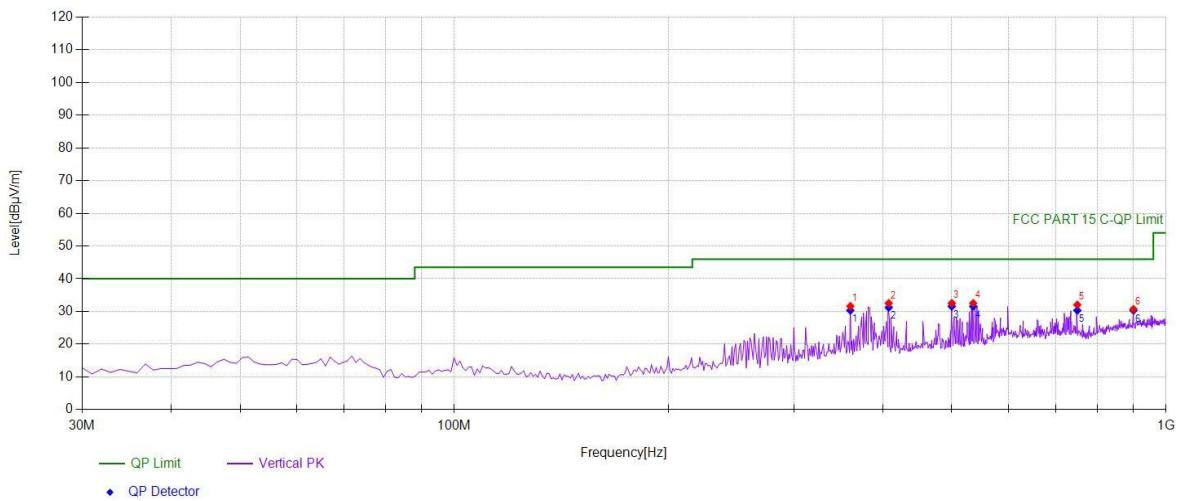
Test Model	☐ 802.11b	☐ 802.11g	☒ 802.11ax(HE20)	☐ 802.11n(HT40)
	☒ Channel 11: 2462MHz	☐ Channel 9: 2452MHz		
	VBW=3MHz			
	Polarity: V			



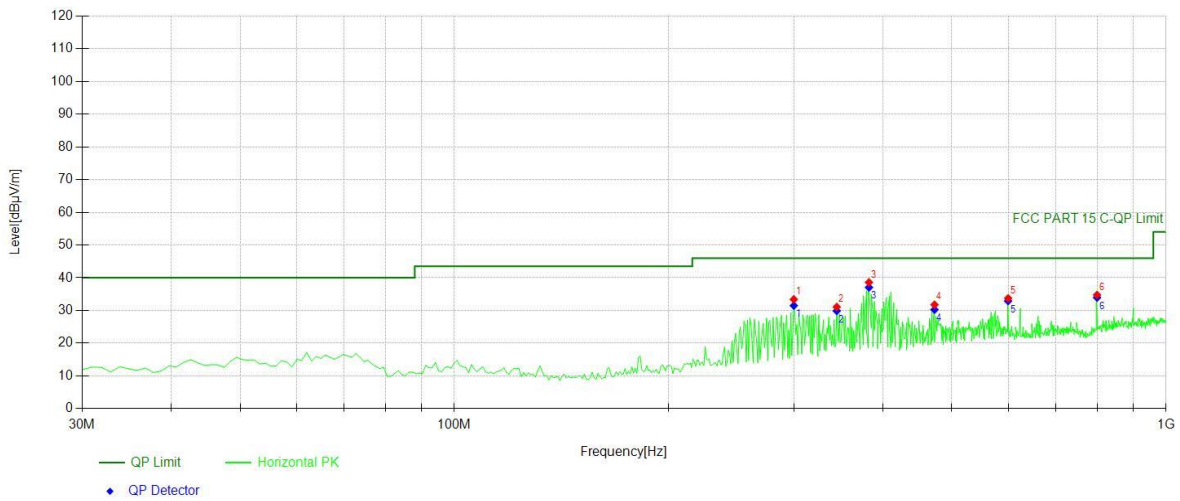
■ Spurious Emission below 1GHz (30MHz to 1GHz)

All antenna modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11n20 recorded was report as below:

2412

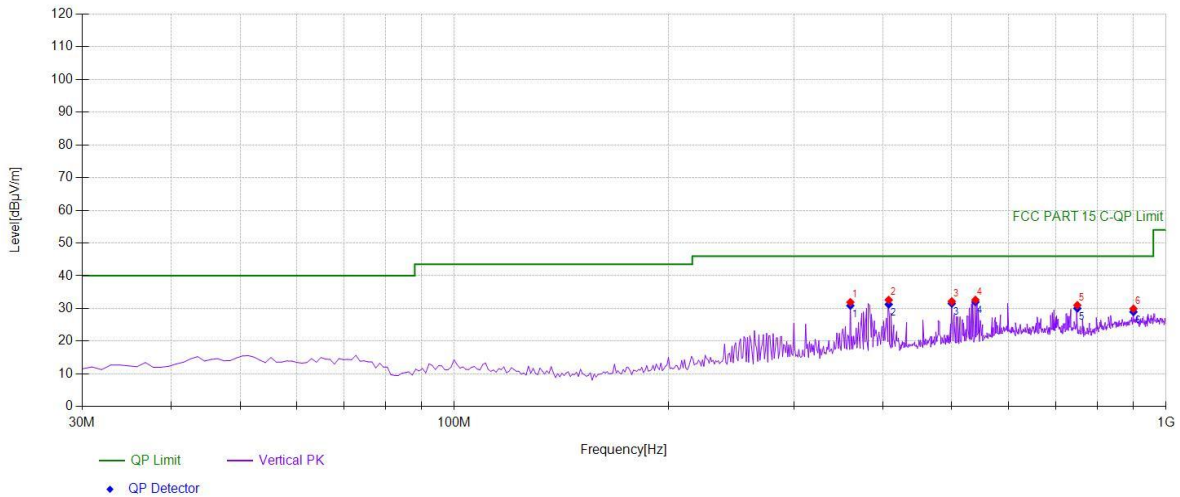


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	360.130	43.97	-12.34	31.63	PK	46.00	14.37	Vertical
2	407.707	44.07	-11.55	32.52	PK	46.00	13.48	Vertical
3	499.95	42.69	-10.14	32.55	PK	46.00	13.45	Vertical
4	535.875	41.96	-9.42	32.54	PK	46.00	13.46	Vertical
5	750.460	38.34	-6.31	32.03	PK	46.00	13.97	Vertical
6	899.99	34.02	-3.30	30.72	PK	46.00	15.28	Vertical

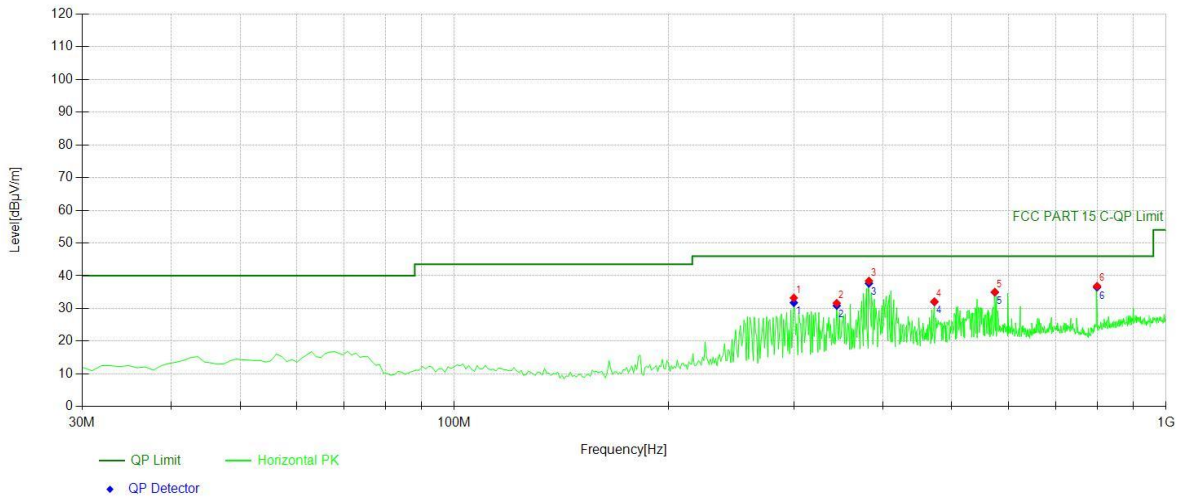


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	299.929	47.39	-13.99	33.40	PK	46.00	12.60	Horizontal
2	344.594	43.44	-12.36	31.08	PK	46.00	14.92	Horizontal
3	382.462	50.21	-11.63	38.58	PK	46.00	7.42	Horizontal
4	472.762	42.00	-10.23	31.77	PK	46.00	14.23	Horizontal
5	599.96	40.13	-6.42	33.71	PK	46.00	12.29	Horizontal
6	799.98	40.25	-5.49	34.76	PK	46.00	11.24	Horizontal

2437



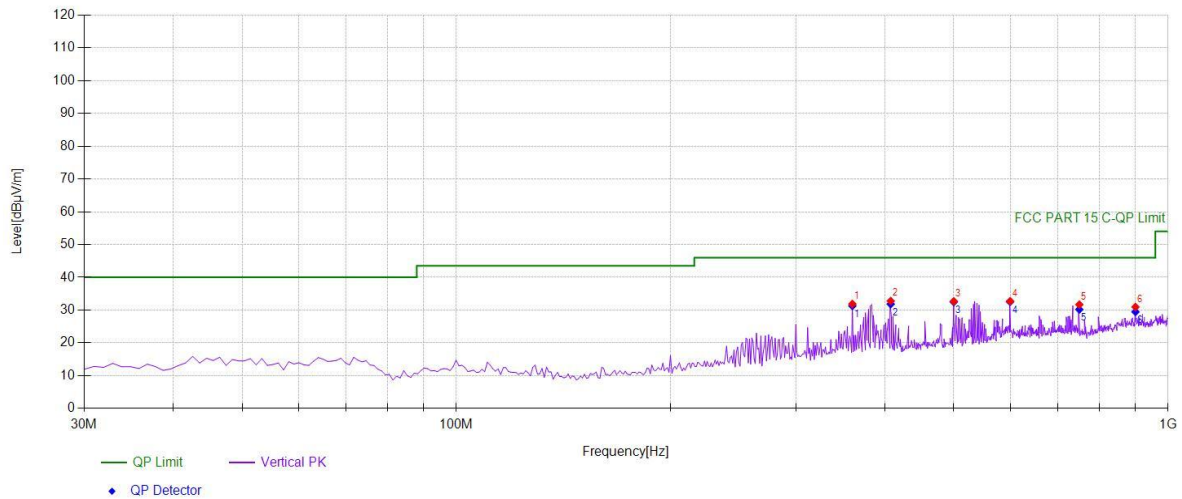
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	360.130	44.25	-12.34	31.91	PK	46.00	14.09	Vertical
2	407.707	44.17	-11.55	32.62	PK	46.00	13.38	Vertical
3	499.95	42.30	-10.14	32.16	PK	46.00	13.84	Vertical
4	539.759	41.95	-9.34	32.61	PK	46.00	13.39	Vertical
5	750.460	37.31	-6.31	31.00	PK	46.00	15.00	Vertical
6	899.99	33.23	-3.30	29.93	PK	46.00	16.07	Vertical



Suspected Data List

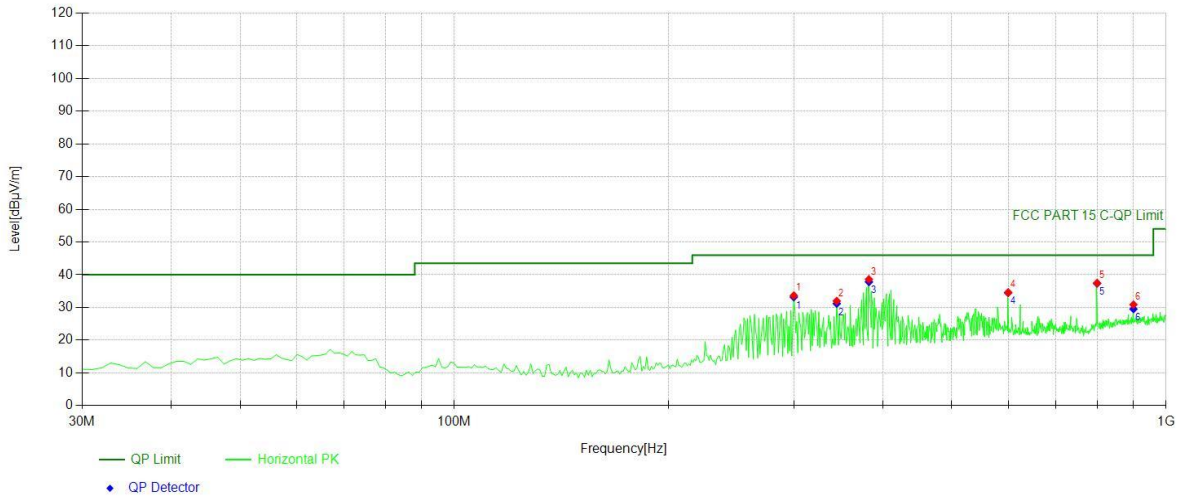
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	299.929	47.23	-13.99	33.24	PK	46.00	12.76	Horizontal
2	344.594	43.99	-12.36	31.63	PK	46.00	14.37	Horizontal
3	382.462	50.06	-11.63	38.43	PK	46.00	7.57	Horizontal
4	472.762	42.30	-10.23	32.07	PK	46.00	13.93	Horizontal
5	574.714	42.74	-7.73	35.01	PK	46.00	10.99	Horizontal
6	799.98	42.33	-5.49	36.84	PK	46.00	9.16	Horizontal

2462



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	360.130	44.22	-12.34	31.88	PK	46.00	14.12	Vertical
2	407.707	44.33	-11.55	32.78	PK	46.00	13.22	Vertical
3	499.95	42.82	-10.14	32.68	PK	46.00	13.32	Vertical
4	599.96	39.16	-6.42	32.74	PK	46.00	13.26	Vertical
5	750.460	38.00	-6.31	31.69	PK	46.00	14.31	Vertical
6	899.99	34.26	-3.30	30.96	PK	46.00	15.04	Vertical



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	299.929	47.63	-13.99	33.64	PK	46.00	12.36	Horizontal
2	344.594	44.34	-12.36	31.98	PK	46.00	14.02	Horizontal
3	382.462	50.23	-11.63	38.60	PK	46.00	7.40	Horizontal
4	599.96	41.00	-6.42	34.58	PK	46.00	11.42	Horizontal
5	799.98	42.93	-5.49	37.44	PK	46.00	8.56	Horizontal
6	899.99	34.18	-3.30	30.88	PK	46.00	15.12	Horizontal

7.6 CONDUCTED EMISSION TEST

7.6.1 Applicable Standard

According to FCC Part 15.207(a)

7.6.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.6.3 Test Configuration

Test according to clause 6.3 conducted emission test setup

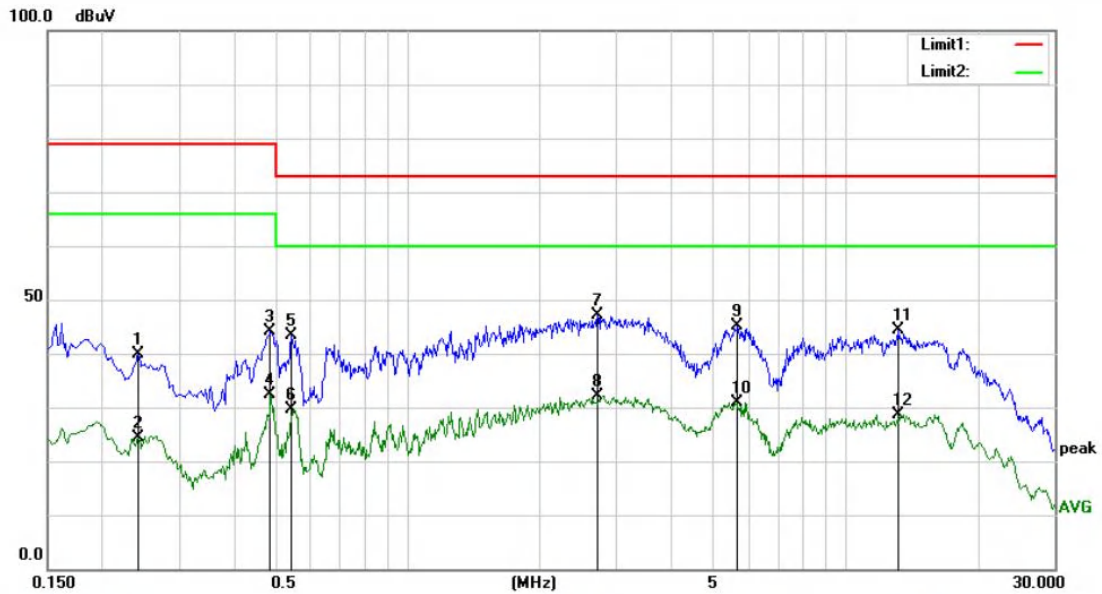
7.6.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

7.6.5 Test Results

Pass

The AC120V &240V voltage have been tested, and the worst result recorded was report as below:



Site Conduction #1

Phase: **N**

Temperature: 22.1

Limit: (CE)FCC PART 15 class A_QP

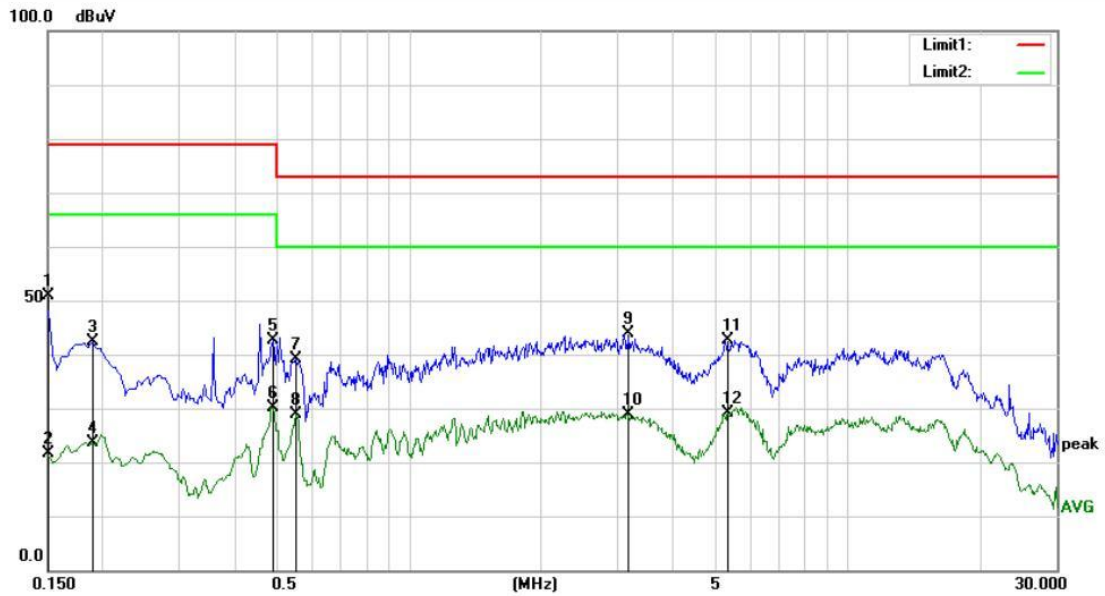
Power: AC 120V/60Hz

Humidity: 30 %

Mode: WIFI mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2420	29.78	10.02	39.80	79.00	-39.20	QP	
2		0.2420	14.39	10.02	24.41	66.00	-41.59	AVG	
3		0.4860	34.19	9.96	44.15	79.00	-34.85	QP	
4		0.4860	22.36	9.96	32.32	66.00	-33.68	AVG	
5		0.5420	33.33	9.96	43.29	73.00	-29.71	QP	
6		0.5420	19.77	9.96	29.73	60.00	-30.27	AVG	
7	*	2.7140	37.10	9.97	47.07	73.00	-25.93	QP	
8		2.7140	22.26	9.97	32.23	60.00	-27.77	AVG	
9		5.6620	35.17	10.00	45.17	73.00	-27.83	QP	
10		5.6620	20.84	10.00	30.84	60.00	-29.16	AVG	
11		13.2300	34.08	10.24	44.32	73.00	-28.68	QP	
12		13.2300	18.35	10.24	28.59	60.00	-31.41	AVG	



Site Conduction #1

Phase: **L1**

Temperature: 22.1

Limit: (CE)FCC PART 15 class A_QP

Power: AC 120V/60Hz

Humidity: 30 %

Mode: WIFI mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	40.77	10.01	50.78	79.00	-28.22	QP	
2		0.1500	11.56	10.01	21.57	66.00	-44.43	AVG	
3		0.1900	32.37	10.03	42.40	79.00	-36.60	QP	
4		0.1900	13.54	10.03	23.57	66.00	-42.43	AVG	
5		0.4900	32.59	9.96	42.55	79.00	-36.45	QP	
6		0.4900	20.21	9.96	30.17	66.00	-35.83	AVG	
7		0.5540	29.16	9.97	39.13	73.00	-33.87	QP	
8		0.5540	18.88	9.97	28.85	60.00	-31.15	AVG	
9		3.1540	33.86	9.97	43.83	73.00	-29.17	QP	
10		3.1540	18.94	9.97	28.91	60.00	-31.09	AVG	
11		5.3540	32.59	9.99	42.58	73.00	-30.42	QP	
12		5.3540	19.03	9.99	29.02	60.00	-30.98	AVG	

7.7 ANTENNA APPLICATION

7.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi..

7.7.2 Result

PASS.

- - ☒ Antenna uses a permanently attached antenna which is not replaceable.
 - ☐ Not using a standard antenna jack or electrical connector for antenna replacement
 - ☐ The antenna has to be professionally installed (please provide method of installation)

Which in accordance to section 15.203, please refer to the internal photos

Detail of factor for radiated emission

Frequency(MHz)	Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	\	20.63
0.15	20.7	0.1	\	20.8
1	20.9	0.15	\	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	\	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5

*** End of Report ***