Test Result

Ant1:

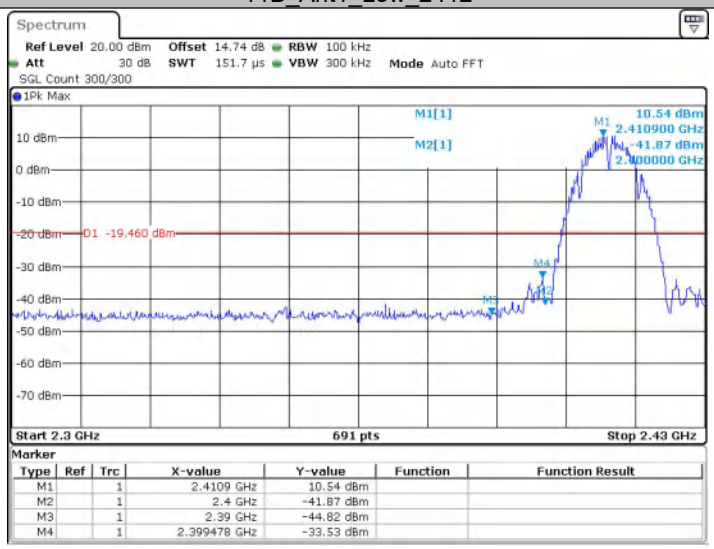
TestMode	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Low	2412	10.54	-33.53	≤-19.46	PASS
	High	2462	13.11	-40.87	≤-16.89	PASS
11G	Low	2412	6.11	-30.94	≤-23.89	PASS
	High	2462	5.41	-38.25	≤-24.59	PASS
11N20SISO	Low	2412	3.56	-26.88	≤-26.44	PASS
	High	2462	7.19	-37.93	≤-22.81	PASS
11N40SISO	Low	2422	2.41	-30.93	≤-27.59	PASS
	High	2452	3.29	-32.91	≤-26.71	PASS
11AX20SISO	Low	2412	5.85	-31.94	≤-24.15	PASS
	High	2462	7.15	-32.01	≤-22.85	PASS
11AX40SISO	Low	2422	2.44	-30.38	≤-27.56	PASS
	High	2452	3.15	-31.52	≤-26.85	PASS

Ant2:

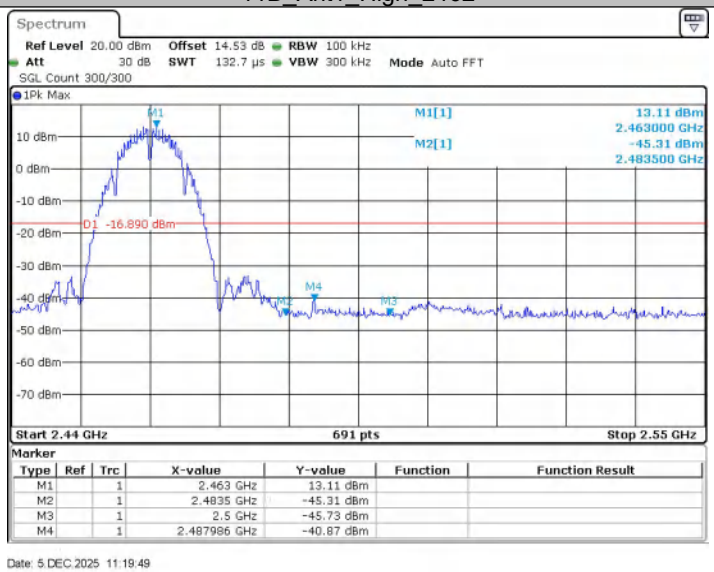
TestMode	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Low	2412	4.17	-39.87	≤-25.83	PASS
	High	2462	3.79	-41.55	≤-26.21	PASS
11G	Low	2412	0.72	-40.34	≤-29.28	PASS
	High	2462	-0.90	-41.95	≤-30.9	PASS
11N20SISO	Low	2412	0.33	-41.36	≤-29.67	PASS
	High	2462	0.29	-40.95	≤-29.71	PASS
11N40SISO	Low	2422	-1.90	-40.24	≤-31.9	PASS
	High	2452	-1.88	-41.94	≤-31.88	PASS
11AX20SISO	Low	2412	0.11	-32.69	≤-29.89	PASS
	High	2462	-1.19	-33.81	≤-31.19	PASS
11AX40SISO	Low	2422	-1.67	-32.93	≤-31.67	PASS
	High	2452	-2.00	-32.68	≤-32	PASS

5.7.1 Test Graphs

11B_Ant1_Low_2412

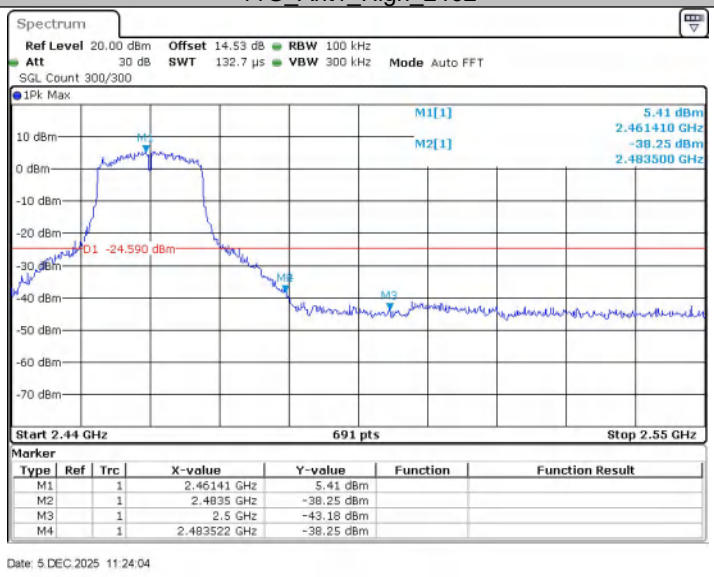


11B_Ant1_High_2462

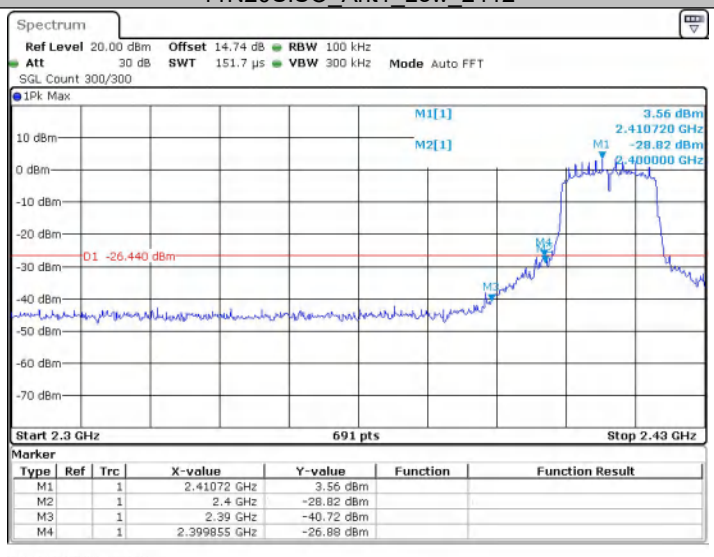


11G_Ant1_Low_2412

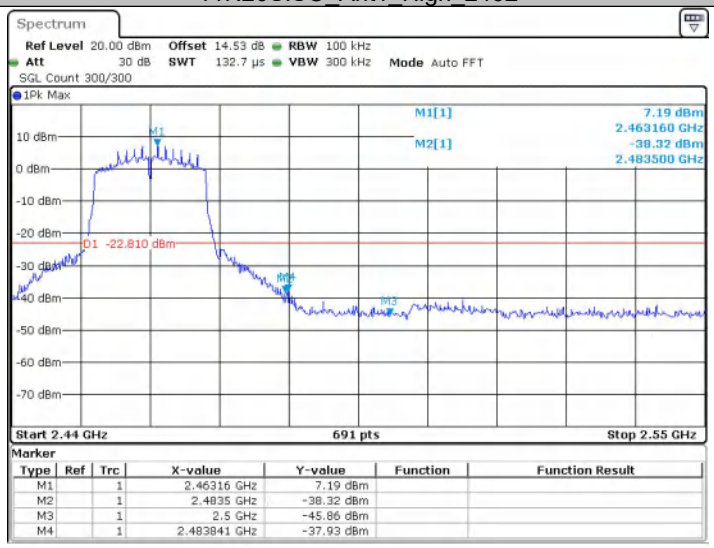
11G_Ant1_High_2462



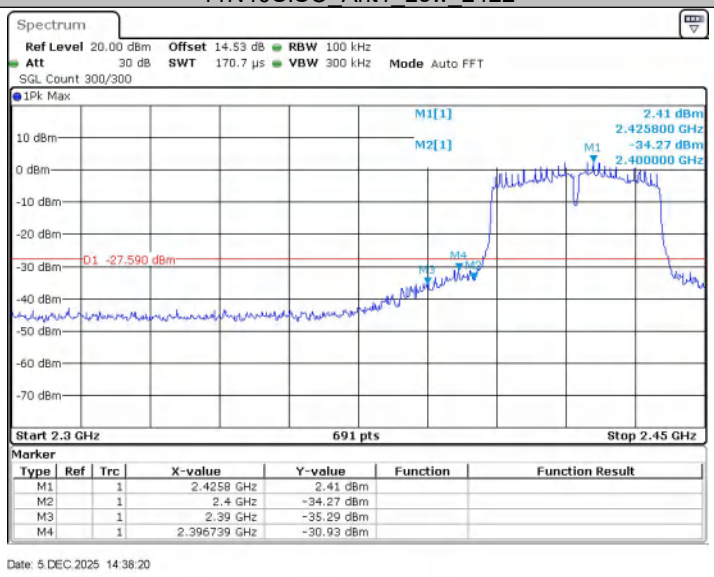
11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462

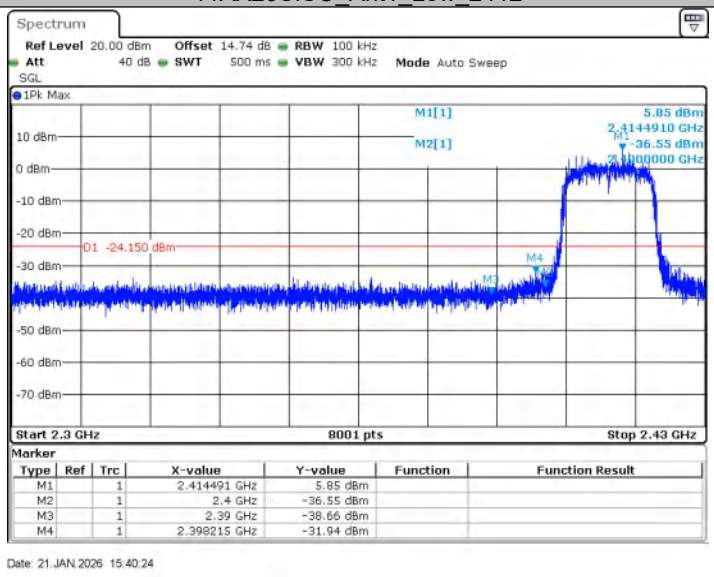


11N40SISO_Ant1_Low_2422

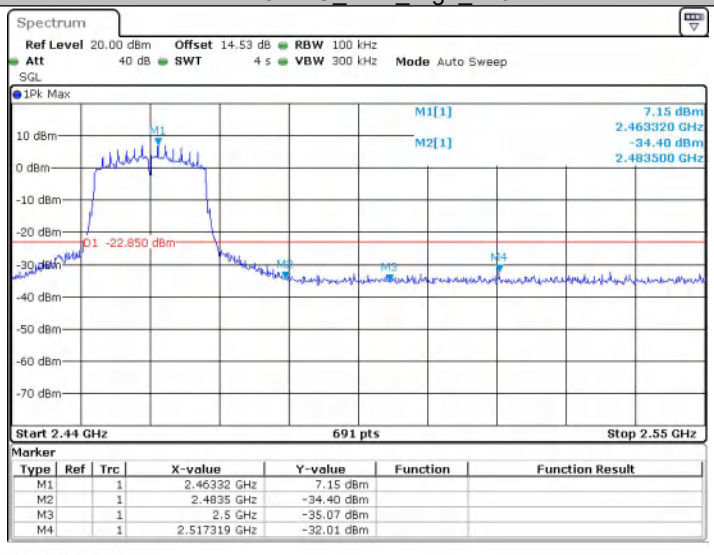


11N40SISO_Ant1_High_2452

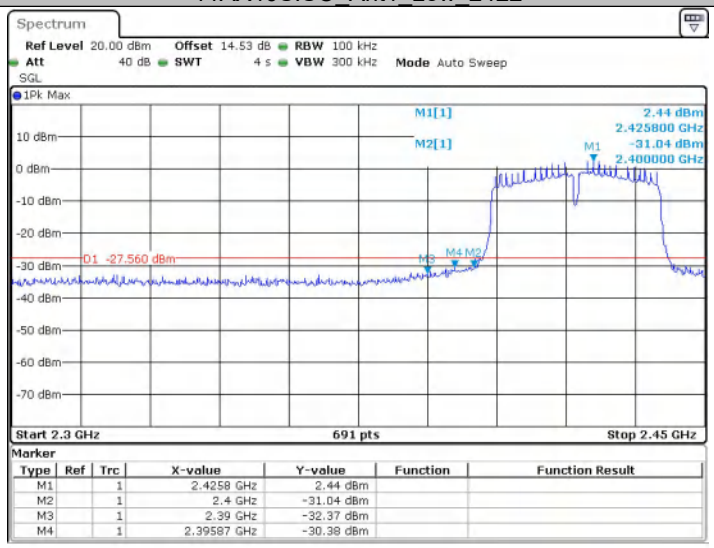
11AX20SISO_Ant1_Low_2412



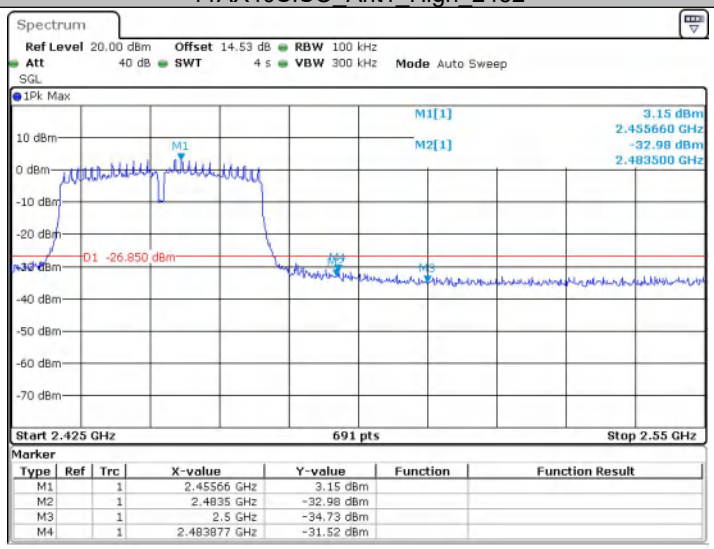
11AX20SISO_Ant1_High_2462



11AX40SISO_Ant1_Low_2422

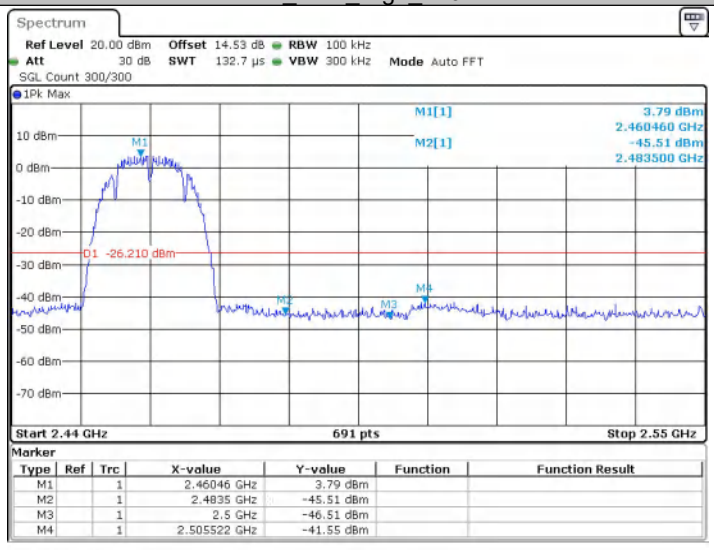


11AX40SISO_Ant1_High_2452



11B_Ant2_Low_2412

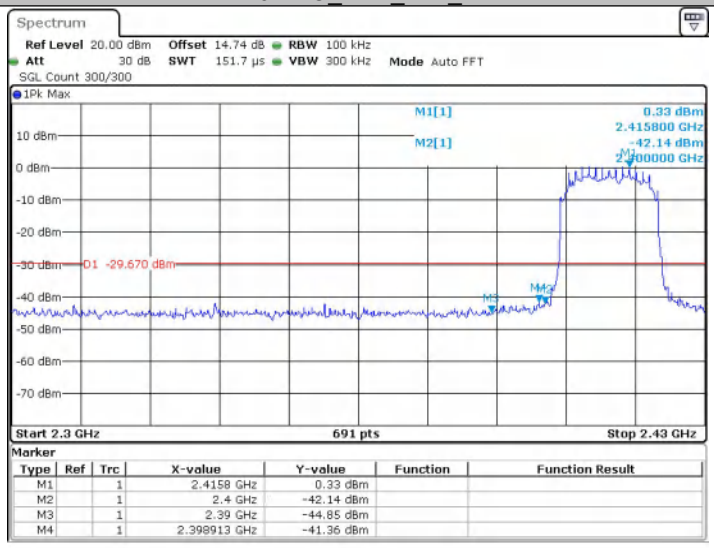
11B_Ant2_High_2462



11G_Ant2_Low_2412

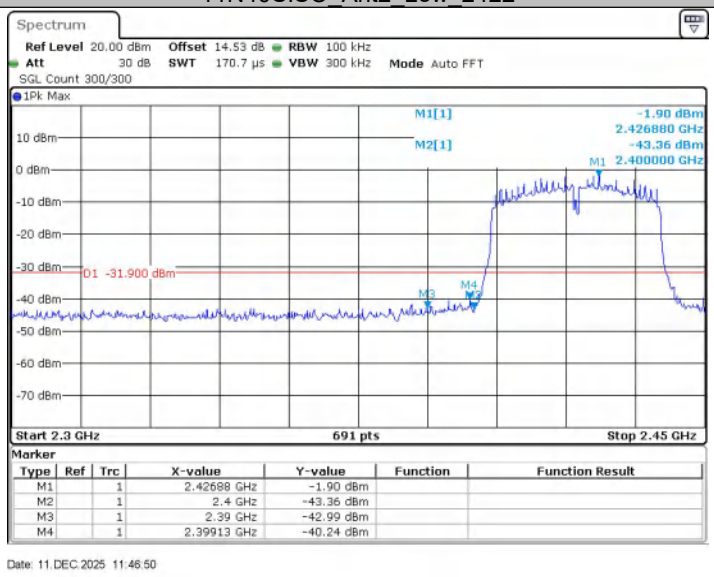
11G_Ant2_High_2462

11N20SISO_Ant2_Low_2412

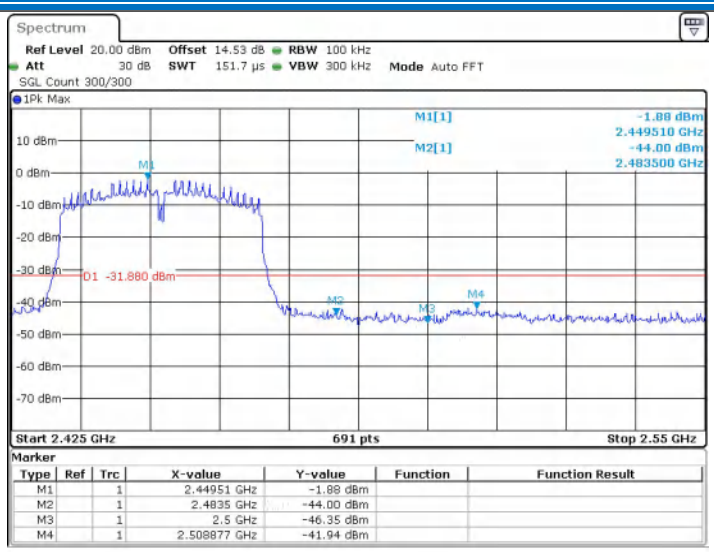


11N20SISO_Ant2_High_2462

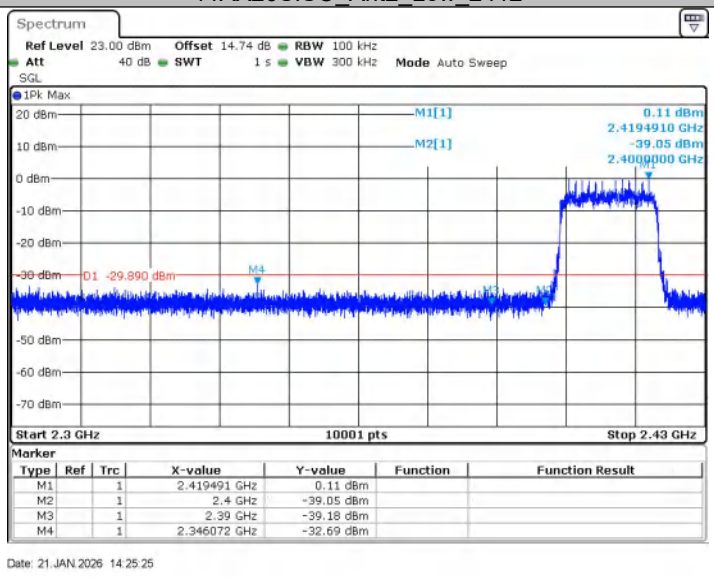
11N40SISO_Ant2_Low_2422



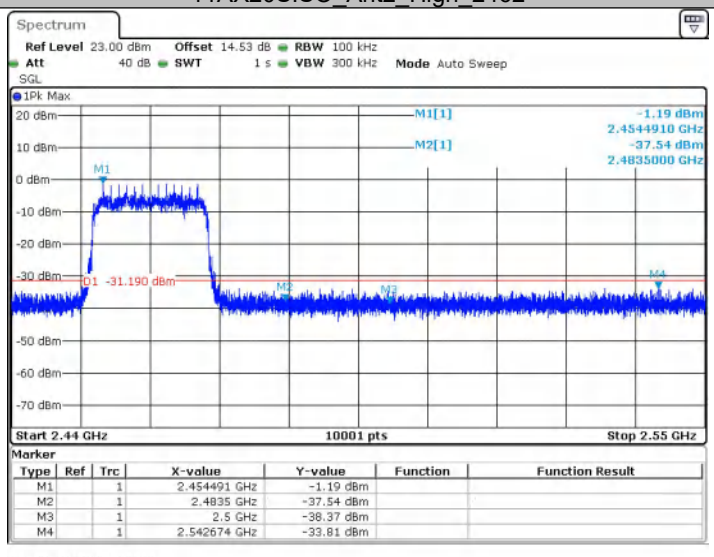
11N40SISO_Ant2_High_2452



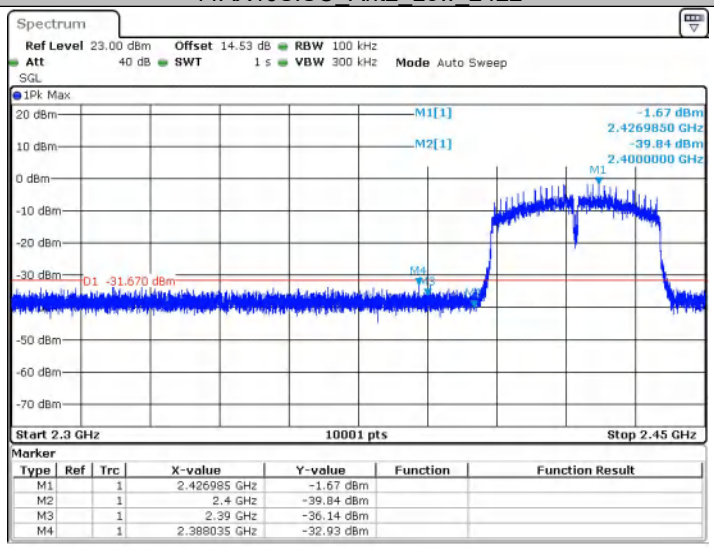
11AX20SISO_Ant2_Low_2412



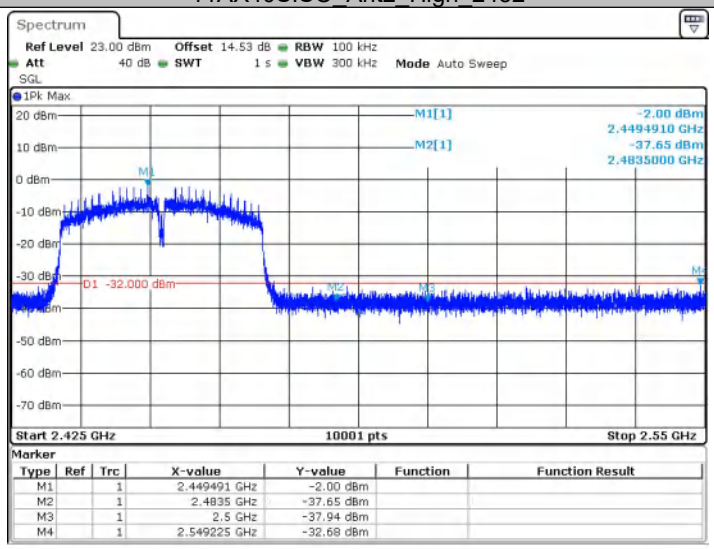
11AX20SISO_Ant2_High_2462



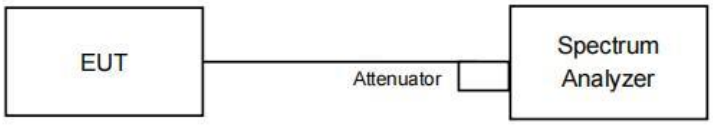
11AX40SISO_Ant2_Low_2422



11AX40SISO_Ant2_High_2452



5.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2020
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting in full-bandwidth single-user mode (Full RU) with all kinds of modulations, and at the lowest, middle, and highest data rates across the channel.
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

Test Result

Ant1:

TestMode	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	Reference	10.48	10.48	---	PASS
		30~1000	10.48	-50.72	≤-19.52	PASS
		1000~26500	10.48	-41.36	≤-19.52	PASS
	2437	Reference	10.82	10.82	---	PASS
		30~1000	10.82	-51.82	≤-19.18	PASS
		1000~26500	10.82	-39.61	≤-19.18	PASS
	2462	Reference	11.92	11.92	---	PASS
		30~1000	11.92	-50.63	≤-18.08	PASS
		1000~26500	11.92	-39.79	≤-18.08	PASS
11G	2412	Reference	2.38	2.38	---	PASS
		30~1000	2.38	-52.08	≤-27.62	PASS
		1000~26500	2.38	-47.37	≤-27.62	PASS
	2437	Reference	3.96	3.96	---	PASS
		30~1000	3.96	-51.31	≤-26.04	PASS
		1000~26500	3.96	-46.66	≤-26.04	PASS
	2462	Reference	7.19	7.19	---	PASS
		30~1000	7.19	-50.66	≤-22.81	PASS
		1000~26500	7.19	-48.17	≤-22.81	PASS
11N20SISO	2412	Reference	-0.04	-0.04	---	PASS
		30~1000	-0.04	-49.62	≤-30.04	PASS
		1000~26500	-0.04	-47.66	≤-30.04	PASS
	2437	Reference	2.52	2.52	---	PASS
		30~1000	2.52	-51.12	≤-27.48	PASS
		1000~26500	2.52	-46.8	≤-27.48	PASS
	2462	Reference	3.43	3.43	---	PASS
		30~1000	3.43	-51.45	≤-26.57	PASS
		1000~26500	3.43	-47.7	≤-26.57	PASS
11N40SISO	2422	Reference	-1.26	-1.26	---	PASS
		30~1000	-1.26	-50.78	≤-31.26	PASS
		1000~26500	-1.26	-47.74	≤-31.26	PASS
	2437	Reference	-0.66	-0.66	---	PASS
		30~1000	-0.66	-50.54	≤-30.66	PASS
		1000~26500	-0.66	-47.97	≤-30.66	PASS

	2452	Reference	-0.80	-0.80	---	PASS
		30~1000	-0.80	-51.28	≤-30.8	PASS
		1000~26500	-0.80	-47.54	≤-30.8	PASS
11AX20SISO	2412	Reference	5.22	5.22	---	PASS
		30~1000	5.22	-51.48	≤-24.78	PASS
		1000~26500	5.22	-47.88	≤-24.78	PASS
	2437	Reference	6.59	6.59	---	PASS
		30~1000	6.59	-50.61	≤-23.41	PASS
		1000~26500	6.59	-47.67	≤-23.41	PASS
	2462	Reference	7.23	7.23	---	PASS
		30~1000	7.23	-50.78	≤-22.77	PASS
		1000~26500	7.23	-47.49	≤-22.77	PASS
11AX40SISO	2422	Reference	2.39	2.39	---	PASS
		30~1000	2.39	-50.65	≤-27.61	PASS
		1000~26500	2.39	-47.54	≤-27.61	PASS
	2437	Reference	3.47	3.47	---	PASS
		30~1000	3.47	-51.41	≤-26.53	PASS
		1000~26500	3.47	-48.24	≤-26.53	PASS
	2452	Reference	3.27	3.27	---	PASS
		30~1000	3.27	-51.44	≤-26.73	PASS
		1000~26500	3.27	-47.9	≤-26.73	PASS

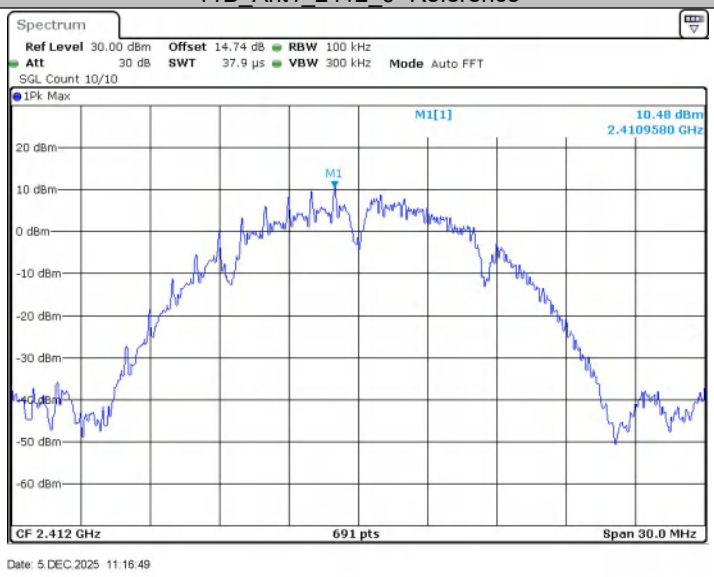
Ant2:

TestMode	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	Reference	3.38	3.38	---	PASS
		30~1000	3.38	-49.72	≤-26.62	PASS
		1000~26500	3.38	-43.77	≤-26.62	PASS
	2437	Reference	3.97	3.97	---	PASS
		30~1000	3.97	-49.86	≤-26.03	PASS
		1000~26500	3.97	-45.35	≤-26.03	PASS
	2462	Reference	2.28	2.28	---	PASS
		30~1000	2.28	-49.52	≤-27.72	PASS
		1000~26500	2.28	-44.57	≤-27.72	PASS
11G	2412	Reference	-2.16	-2.16	---	PASS
		30~1000	-2.16	-48.77	≤-32.16	PASS
		1000~26500	-2.16	-46.1	≤-32.16	PASS
	2437	Reference	-2.52	-2.52	---	PASS
		30~1000	-2.52	-50.3	≤-32.52	PASS
		1000~26500	-2.52	-46.86	≤-32.52	PASS
	2462	Reference	-3.06	-3.06	---	PASS
		30~1000	-3.06	-50.66	≤-33.06	PASS
		1000~26500	-3.06	-45.99	≤-33.06	PASS
11N20SISO	2412	Reference	-2.17	-2.17	---	PASS
		30~1000	-2.17	-49.53	≤-32.17	PASS
		1000~26500	-2.17	-45.88	≤-32.17	PASS
	2437	Reference	-2.26	-2.26	---	PASS
		30~1000	-2.26	-49.77	≤-32.26	PASS
		1000~26500	-2.26	-46.99	≤-32.26	PASS
	2462	Reference	-0.31	-0.31	---	PASS
		30~1000	-0.31	-50.02	≤-30.31	PASS
		1000~26500	-0.31	-47.12	≤-30.31	PASS
11N40SISO	2422	Reference	-1.49	-1.49	---	PASS
		30~1000	-1.49	-49.82	≤-31.49	PASS
		1000~26500	-1.49	-47.65	≤-31.49	PASS
	2437	Reference	-1.88	-1.88	---	PASS
		30~1000	-1.88	-50.08	≤-31.88	PASS
		1000~26500	-1.88	-46.2	≤-31.88	PASS
	2452	Reference	-2.12	-2.12	---	PASS

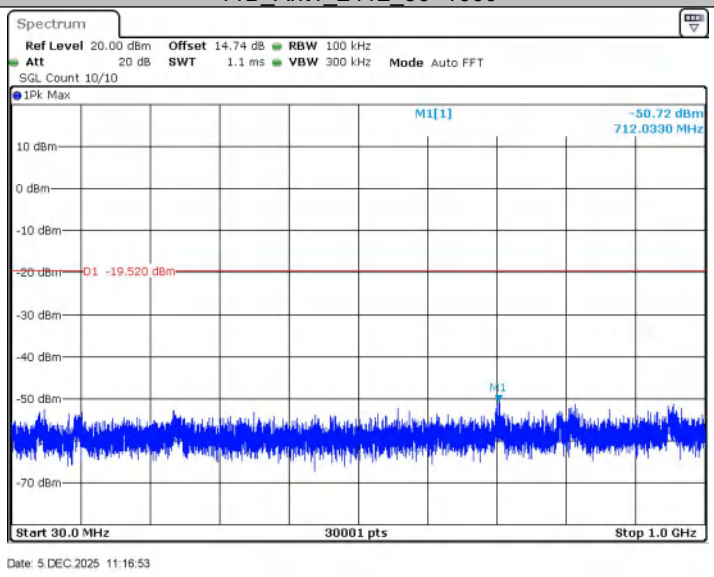
		30~1000	-2.12	-48.84	≤-32.12	PASS
		1000~26500	-2.12	-46.86	≤-32.12	PASS
11AX20SISO	2412	Reference	1.76	1.76	---	PASS
		30~1000	1.76	-48.39	≤-28.24	PASS
		1000~26500	1.76	-46.29	≤-28.24	PASS
	2437	Reference	1.82	1.82	---	PASS
		30~1000	1.82	-49.34	≤-28.18	PASS
		1000~26500	1.82	-45.78	≤-28.18	PASS
	2462	Reference	1.24	1.24	---	PASS
		30~1000	1.24	-50.31	≤-28.76	PASS
		1000~26500	1.24	-46.5	≤-28.76	PASS
11AX40SISO	2422	Reference	-1.62	-1.62	---	PASS
		30~1000	-1.62	-49.79	≤-31.62	PASS
		1000~26500	-1.62	-46.97	≤-31.62	PASS
	2437	Reference	-1.89	-1.89	---	PASS
		30~1000	-1.89	-48.72	≤-31.89	PASS
		1000~26500	-1.89	-47.04	≤-31.89	PASS
	2452	Reference	-1.97	-1.97	---	PASS
		30~1000	-1.97	-50.07	≤-31.97	PASS
		1000~26500	-1.97	-46.45	≤-31.97	PASS

Test Graphs

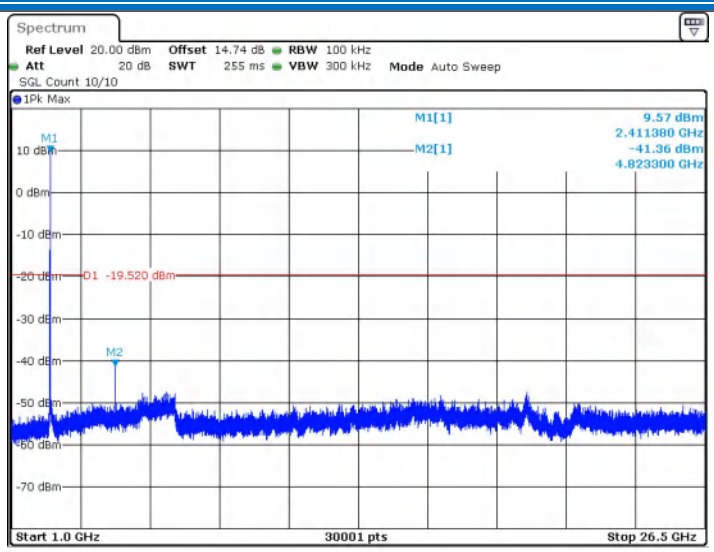
11B_Ant1_2412_0~Reference



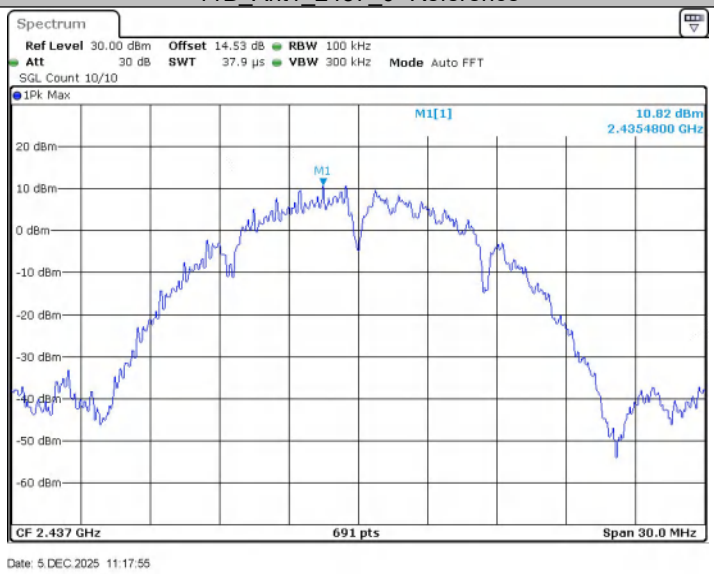
11B_Ant1_2412_30~1000



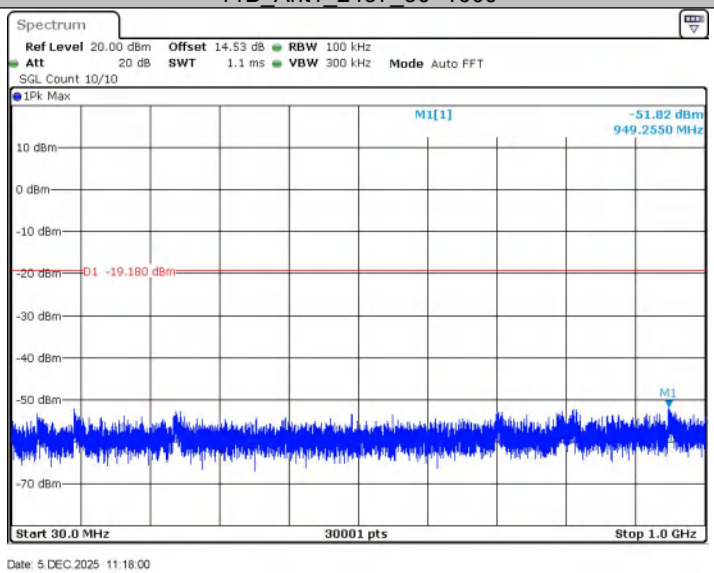
11B_Ant1_2412_1000~26500



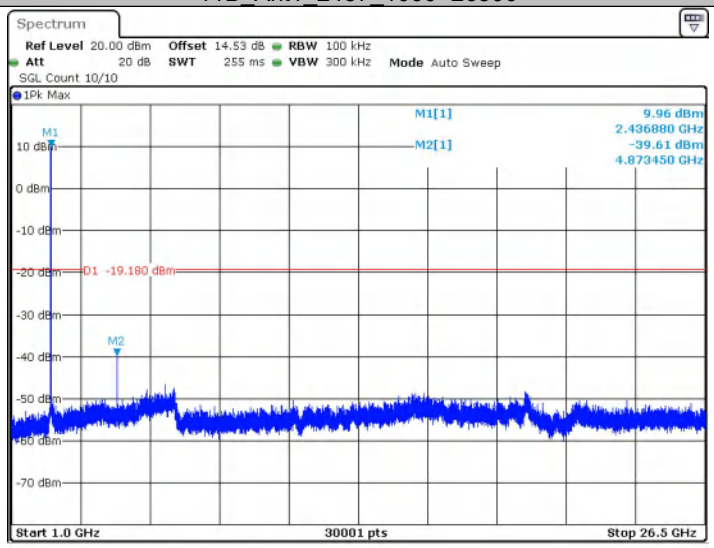
11B_Ant1_2437_0~Reference



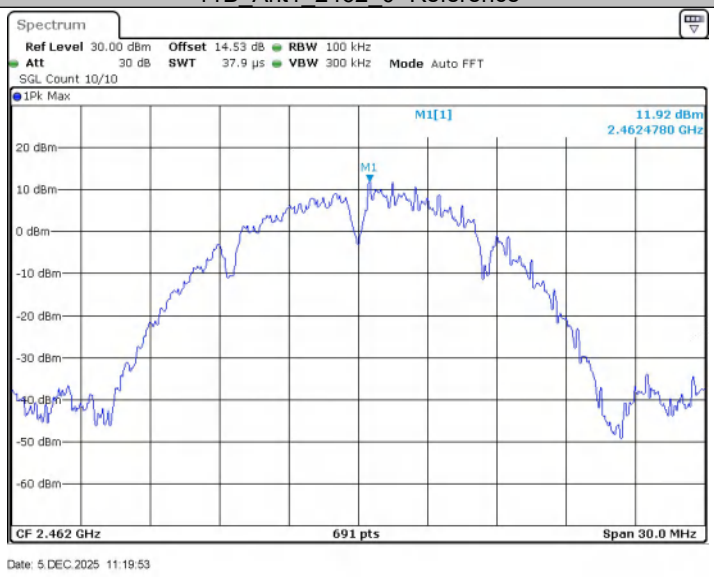
11B_Ant1_2437_30~1000



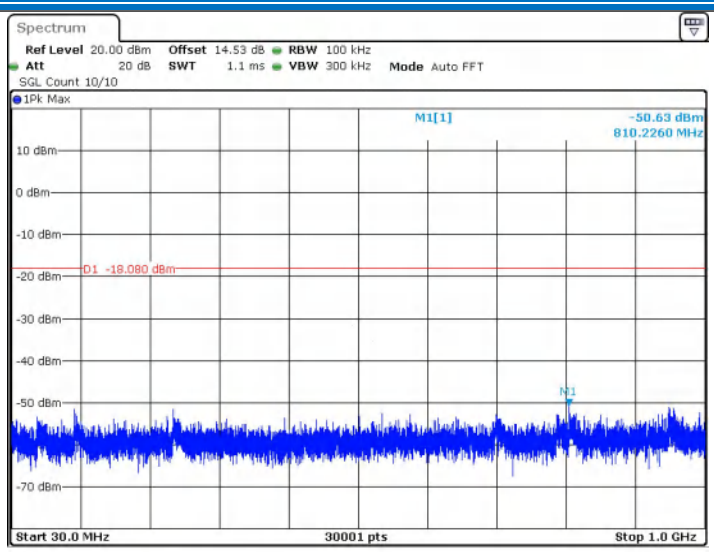
11B_Ant1_2437_1000~26500



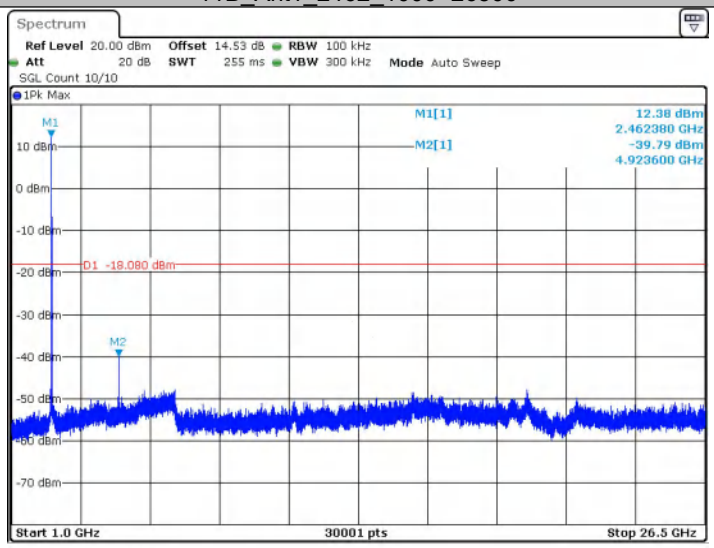
11B_Ant1_2462_0~Reference



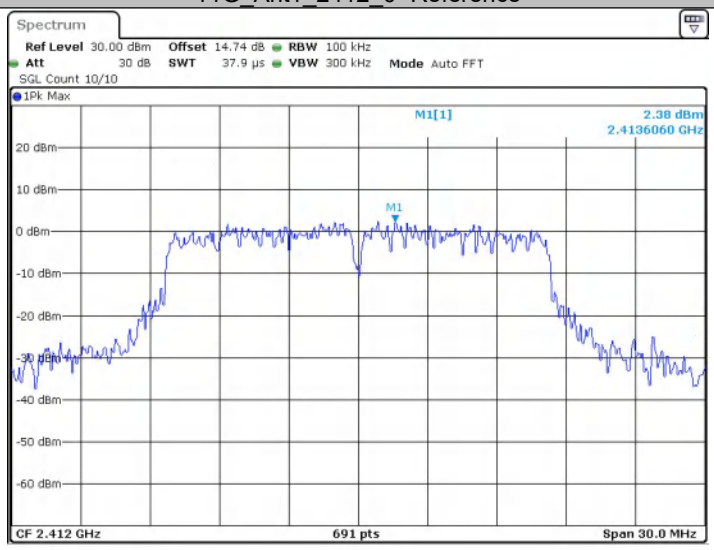
11B_Ant1_2462_30~1000



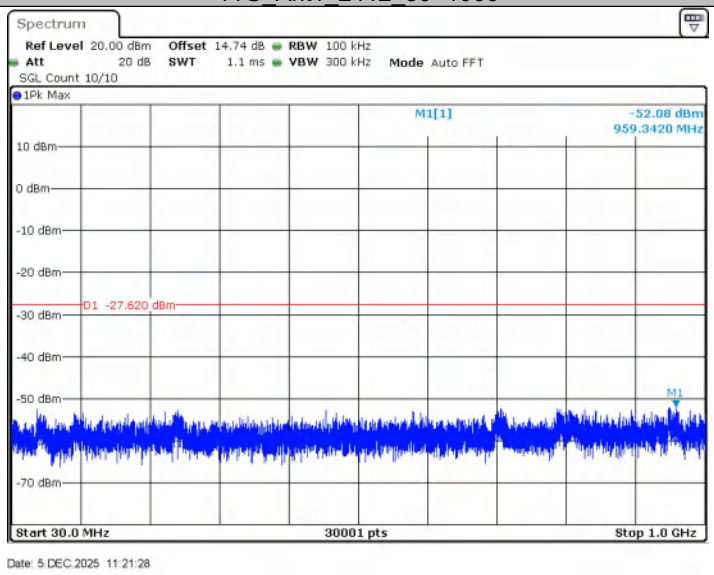
11B_Ant1_2462_1000~26500



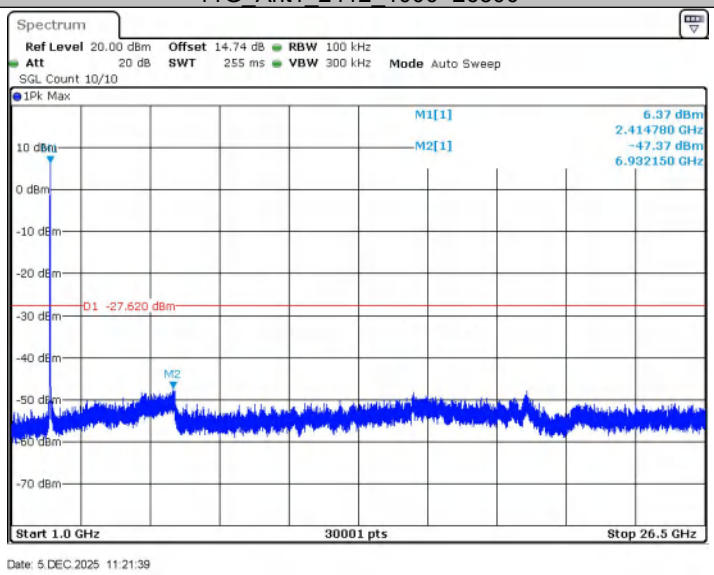
11G_Ant1_2412_0~Reference



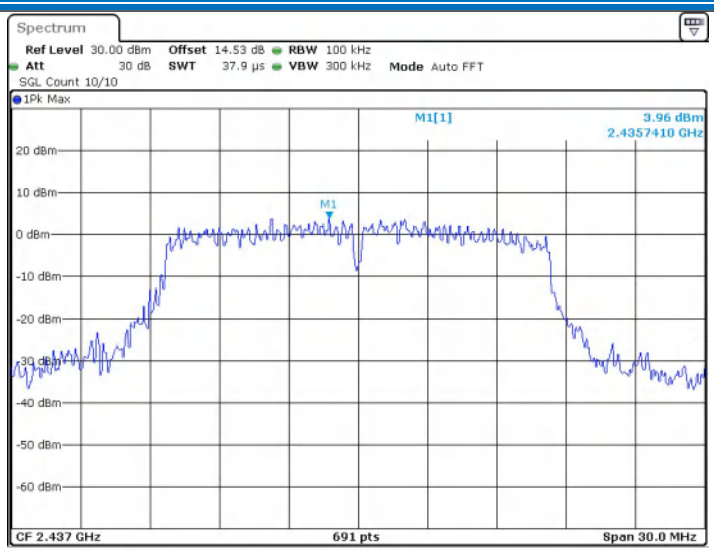
11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



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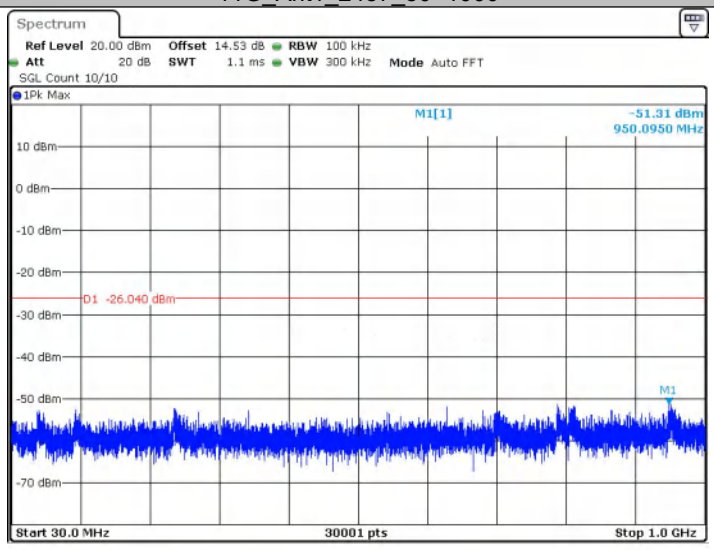

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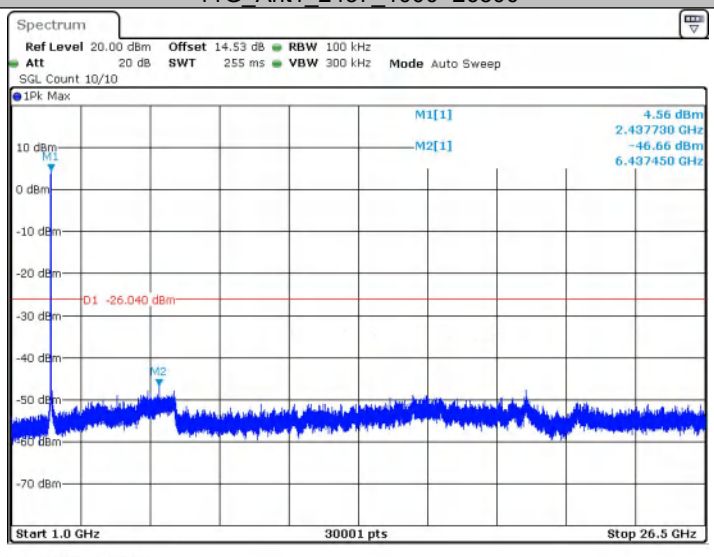

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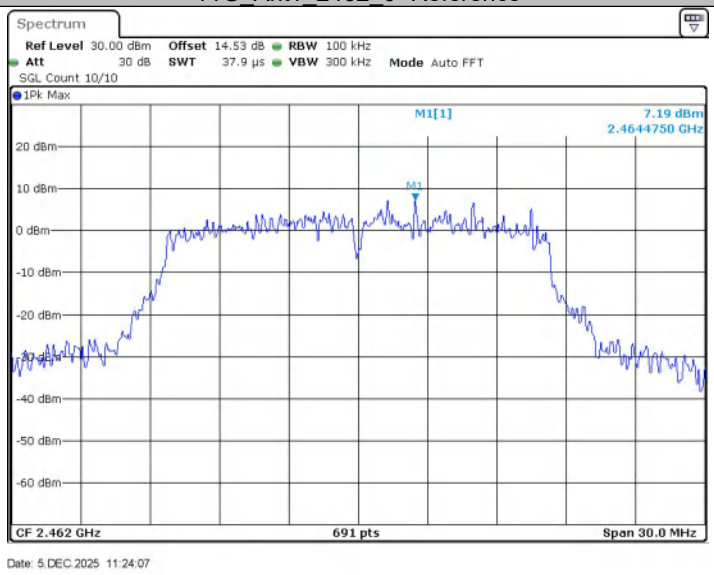

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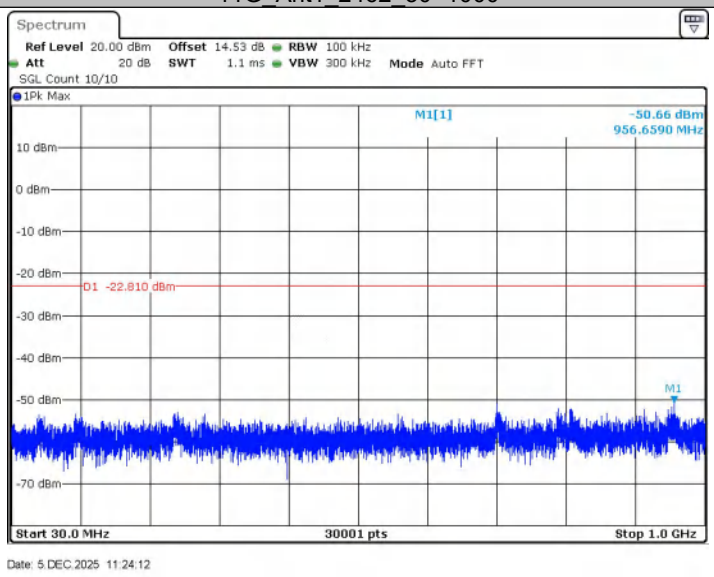

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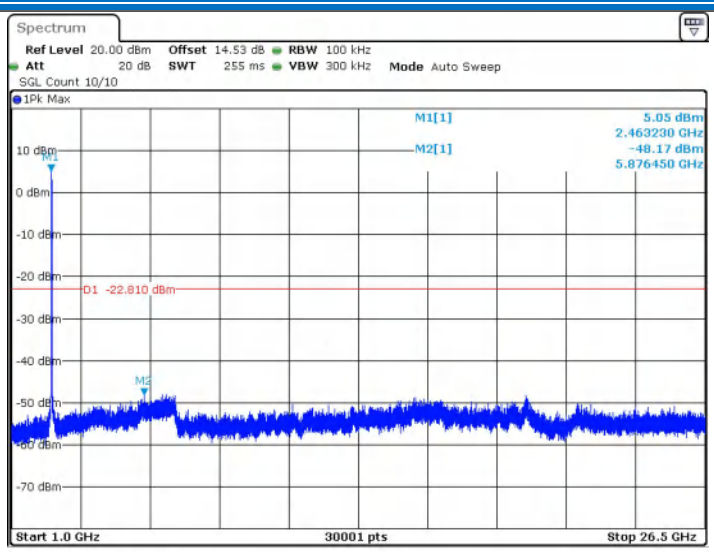

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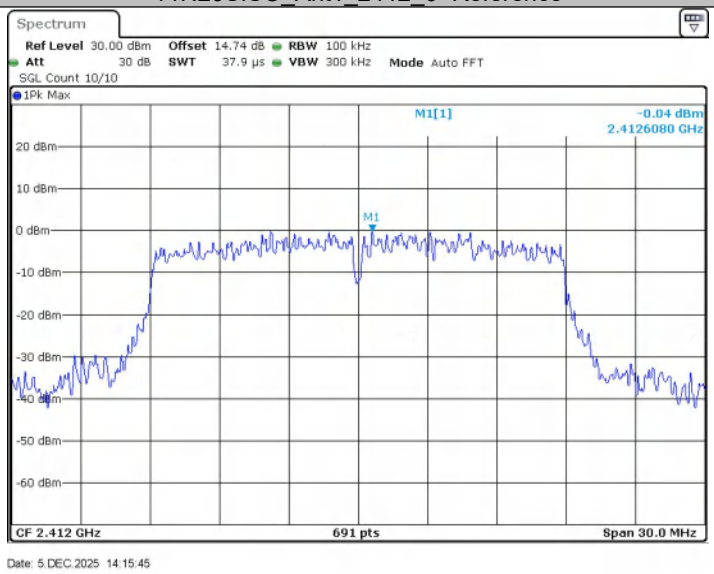

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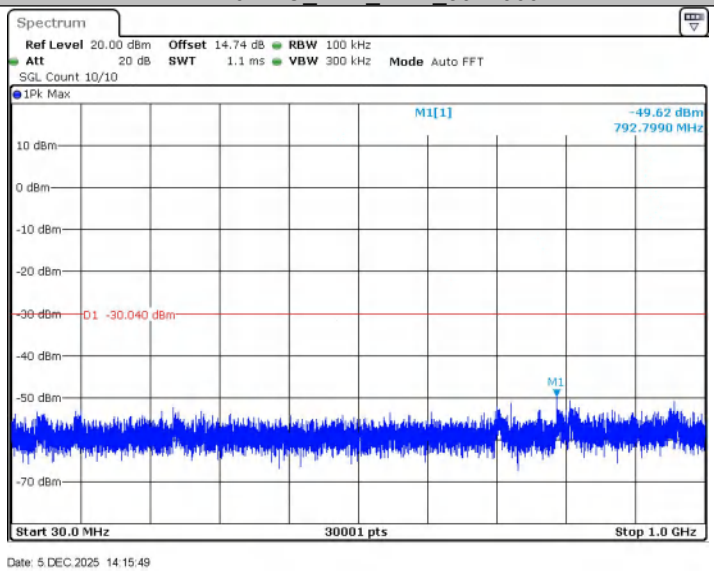

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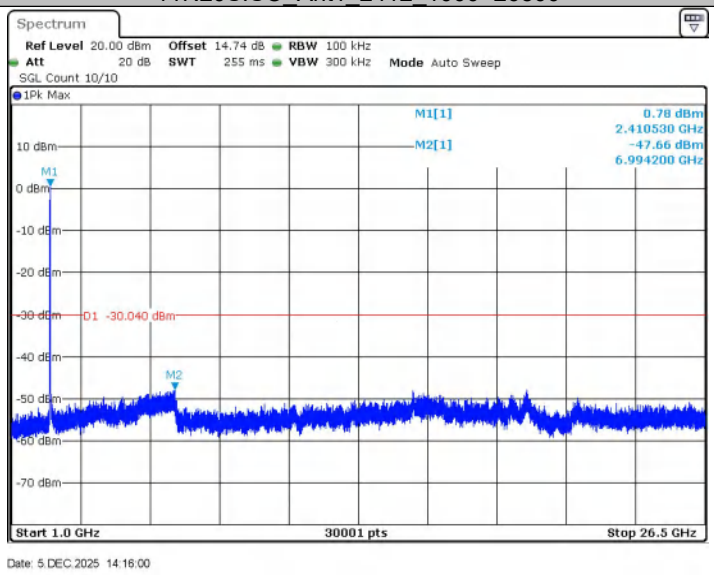

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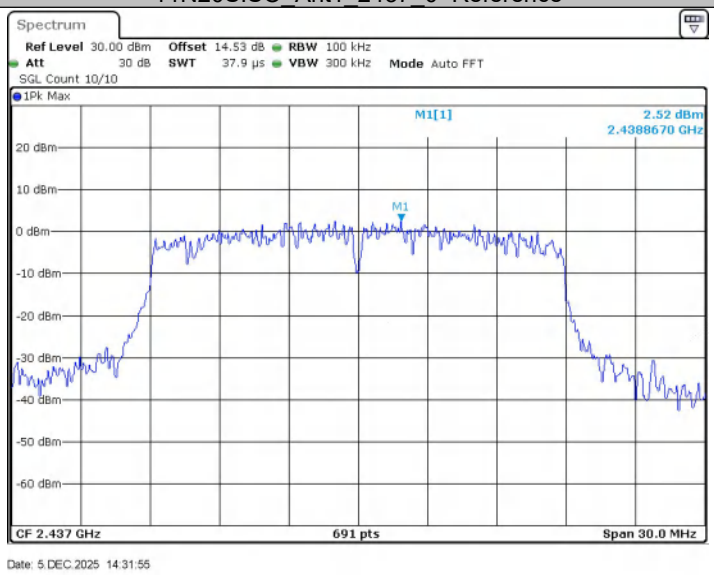

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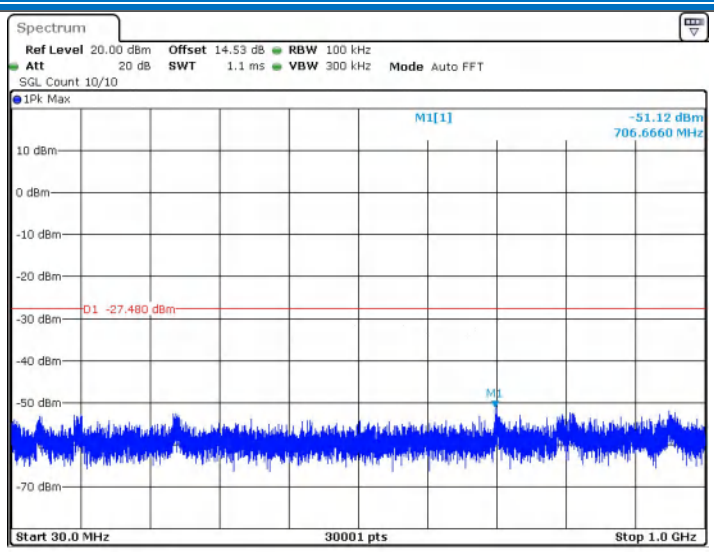

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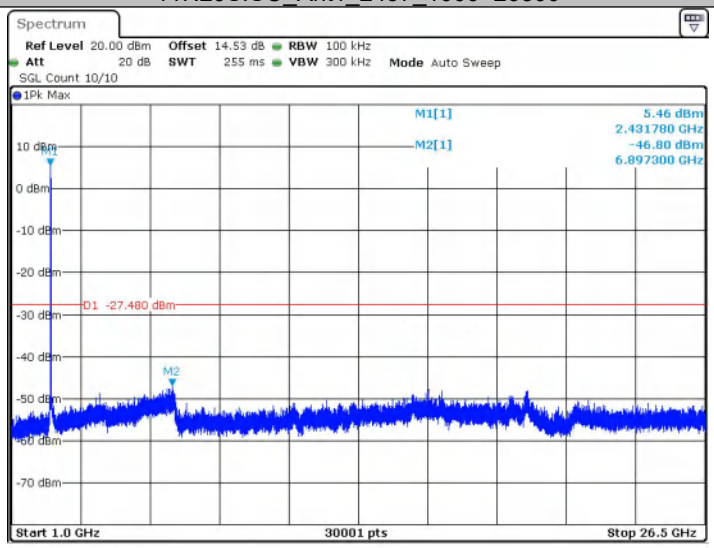

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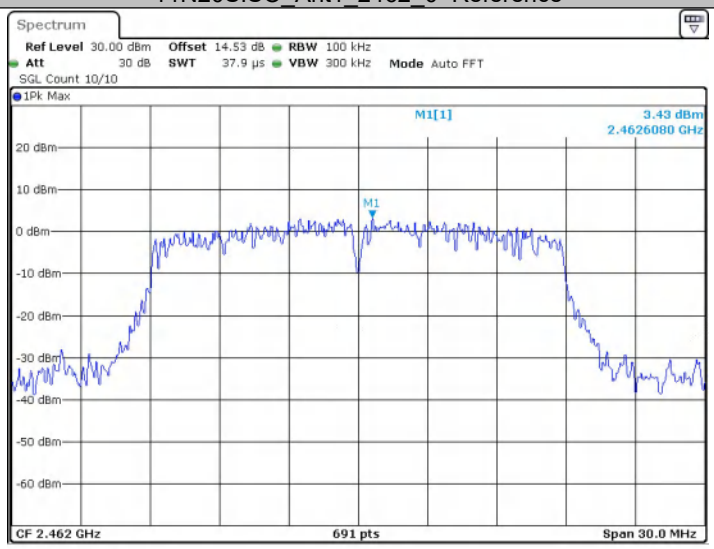

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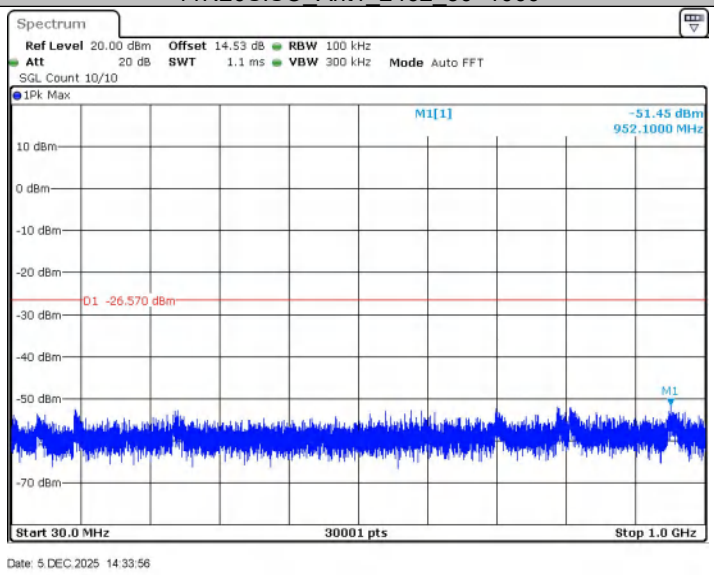

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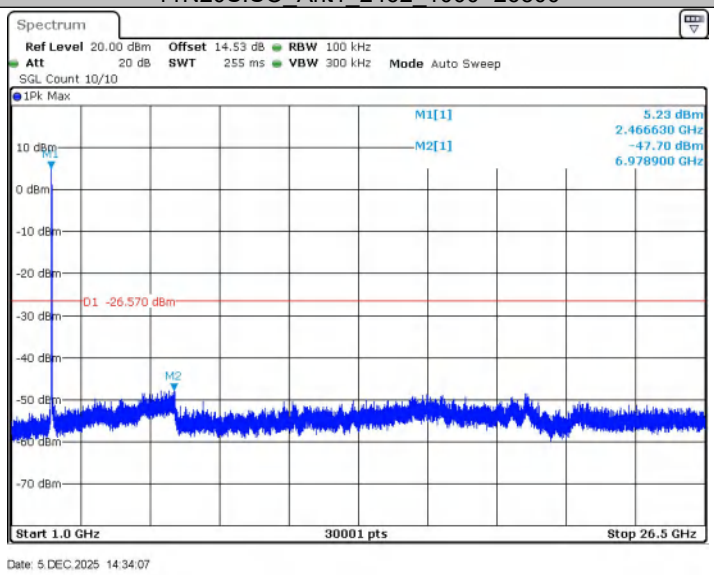

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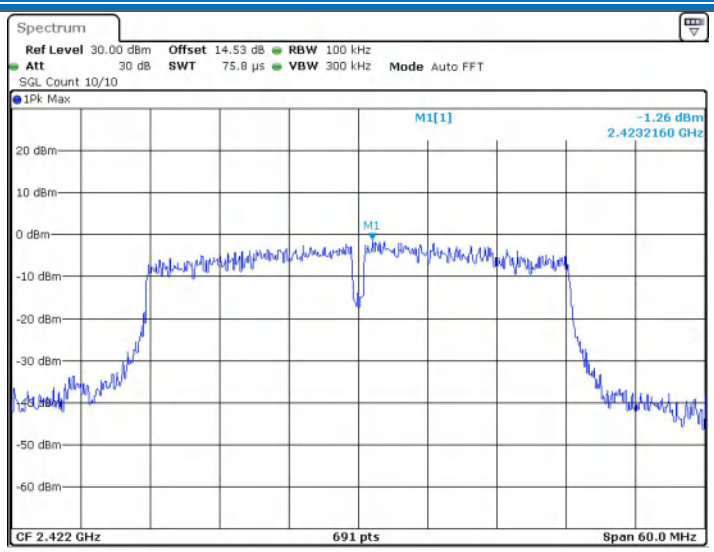

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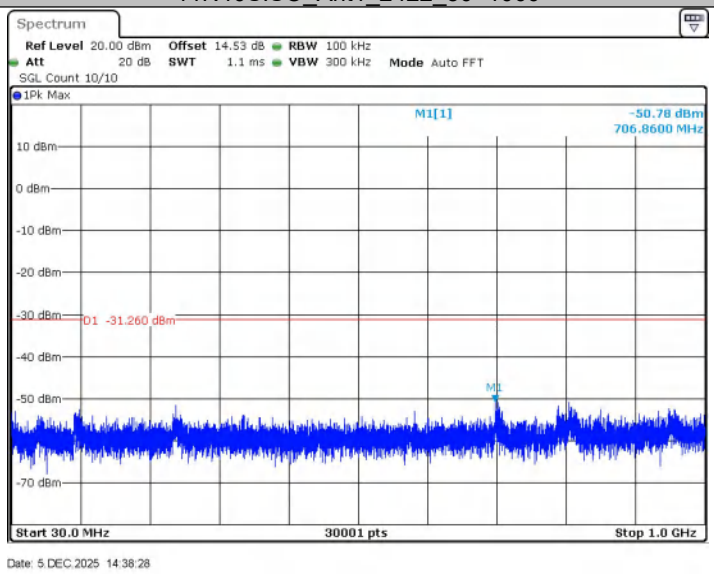

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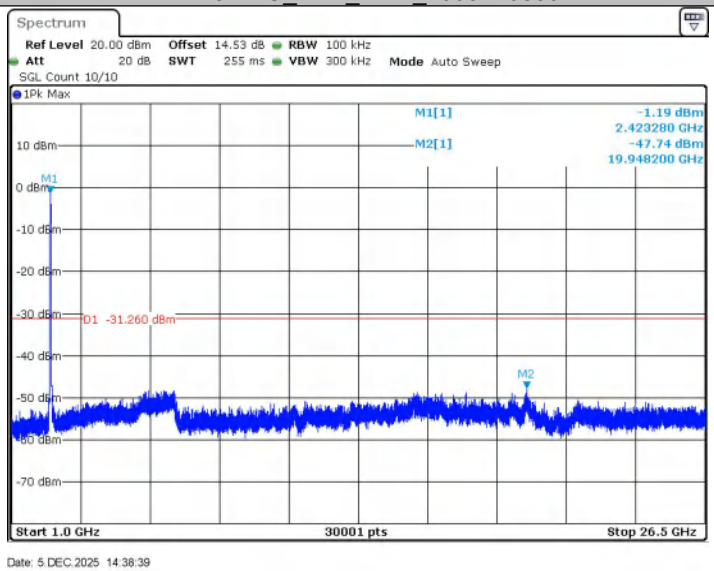

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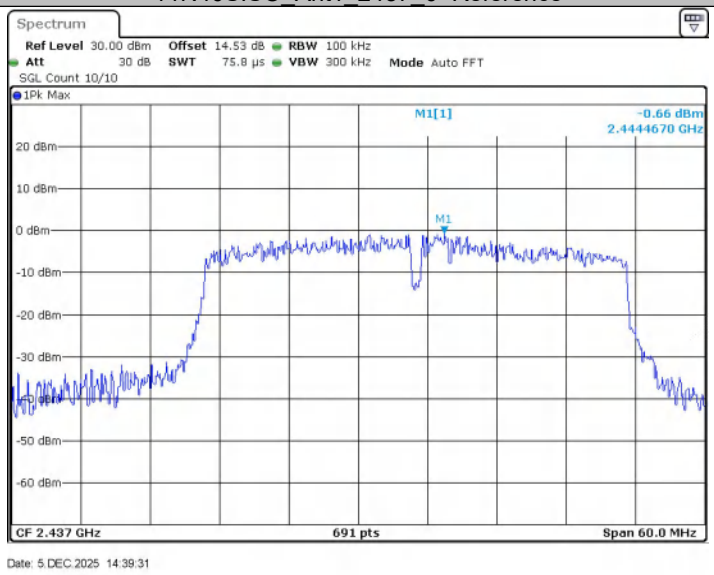

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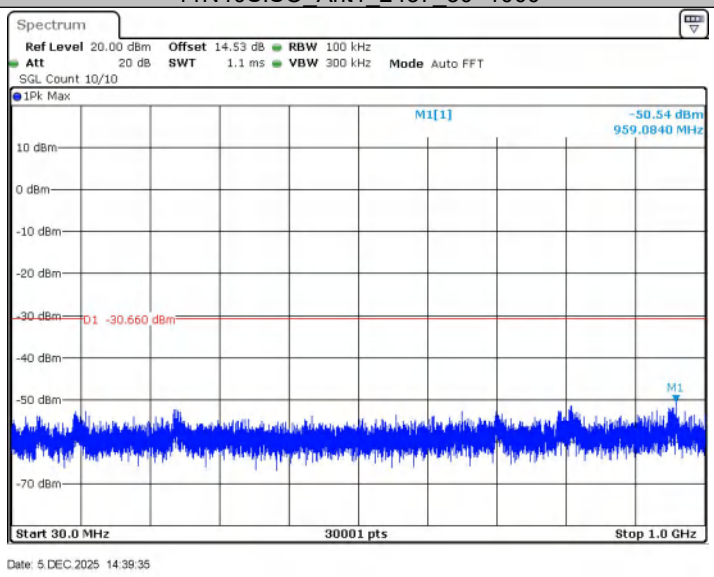

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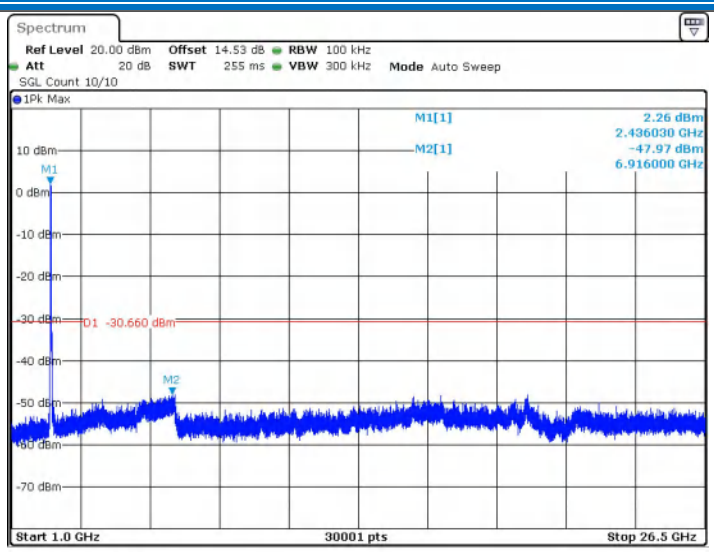

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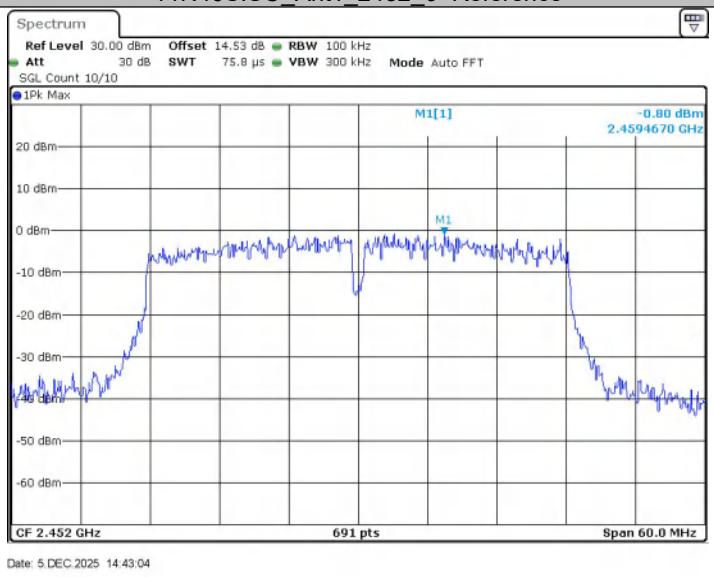

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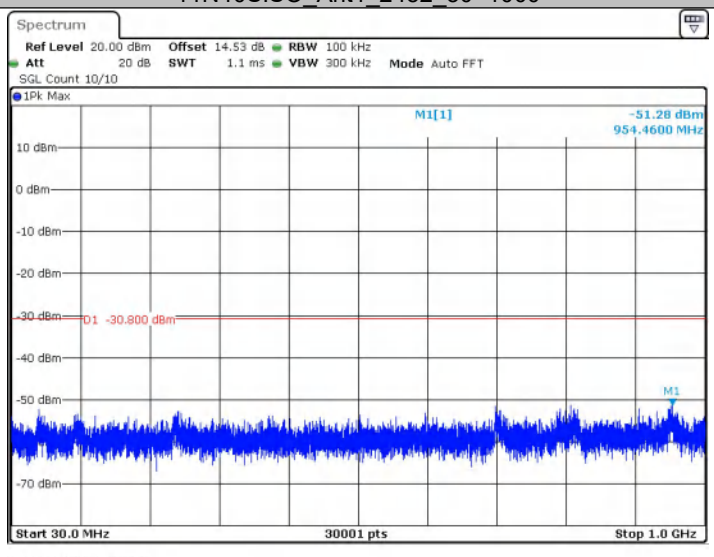

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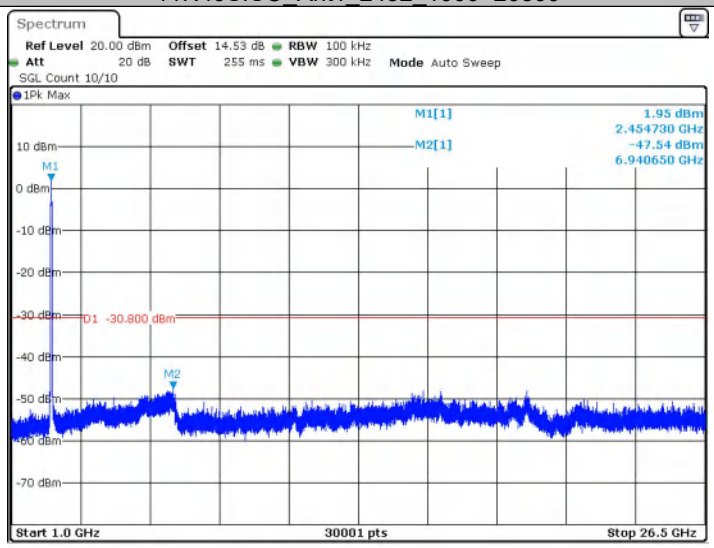

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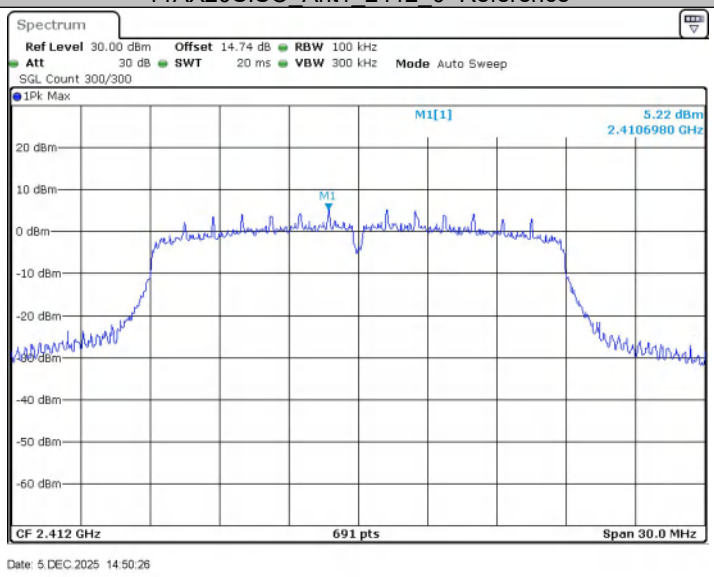

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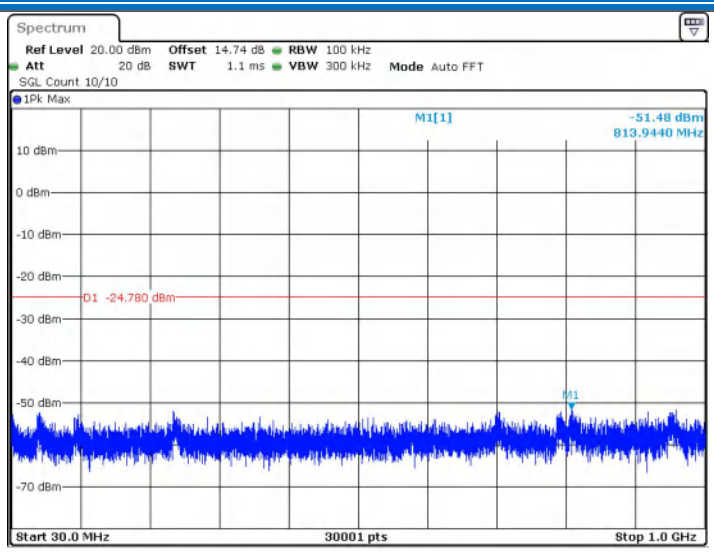

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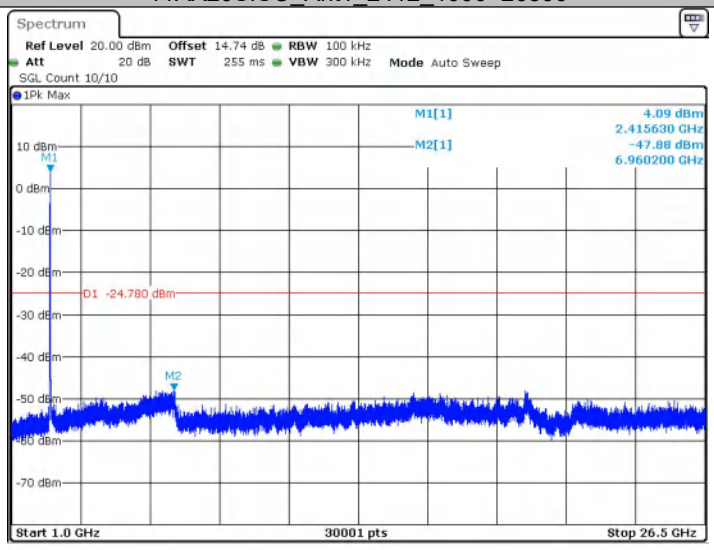

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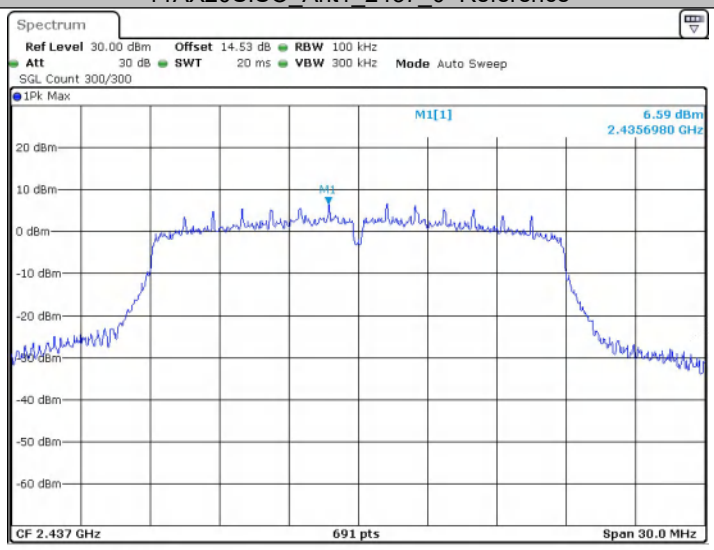

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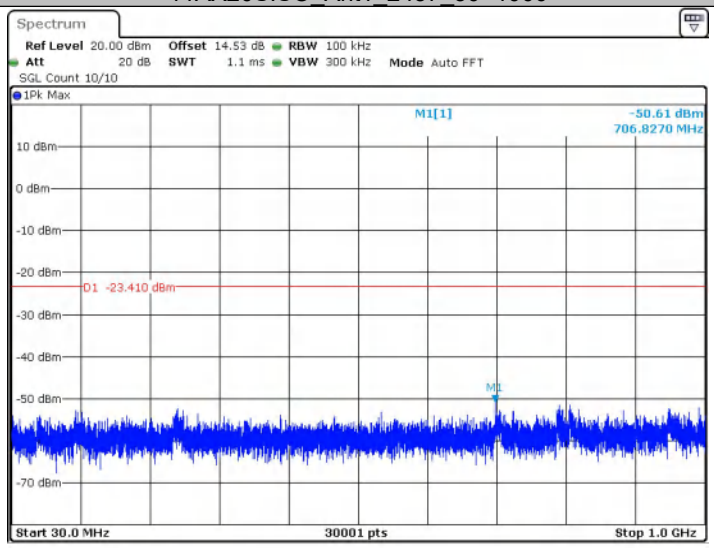

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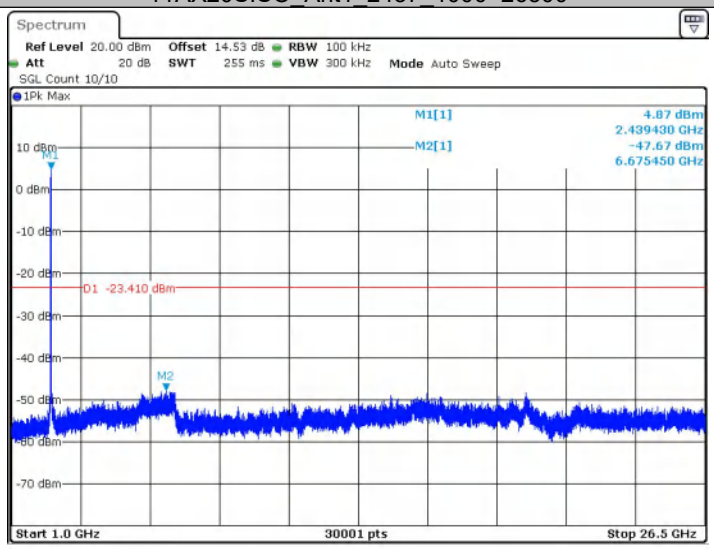

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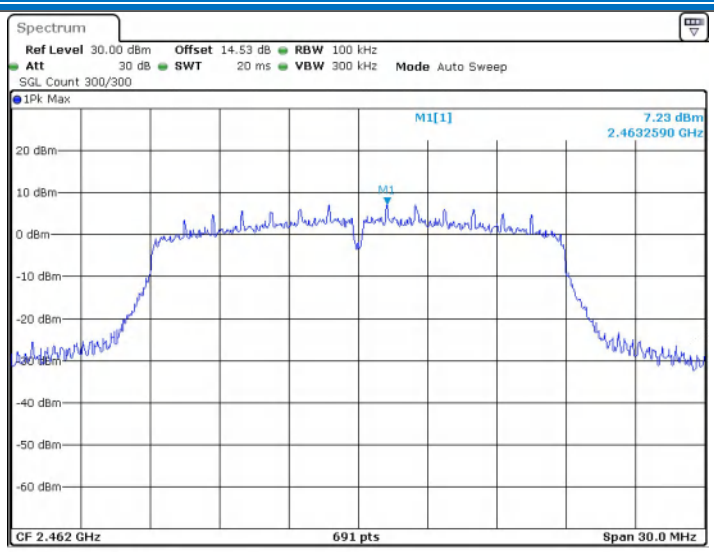

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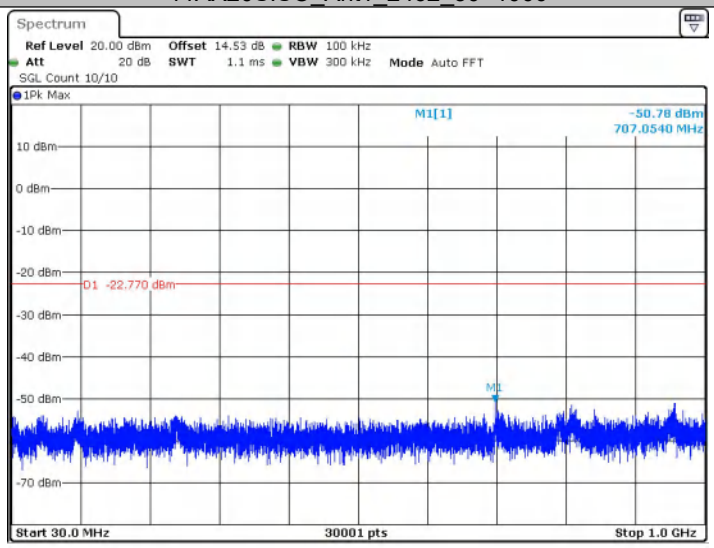

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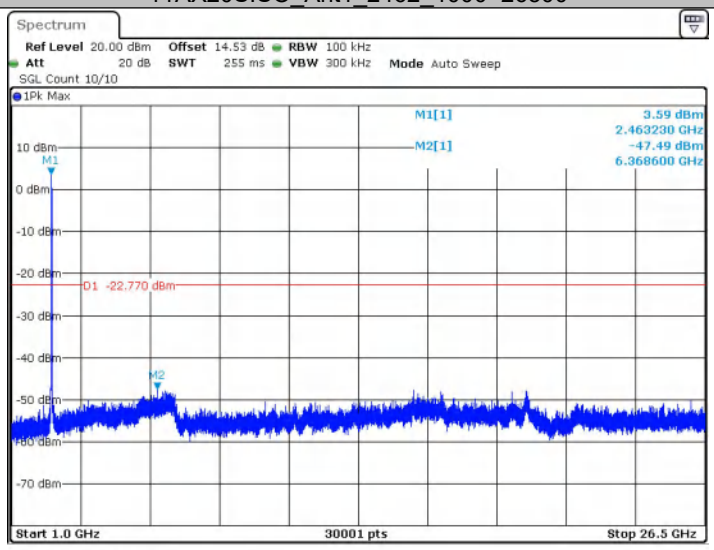

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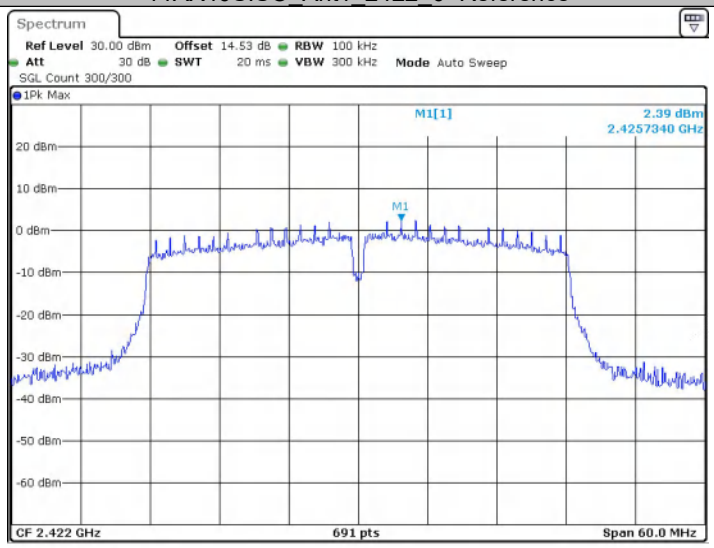

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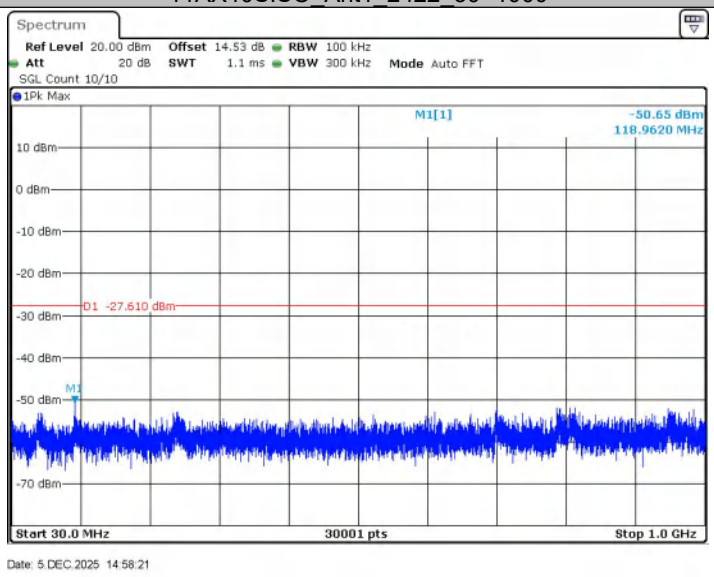

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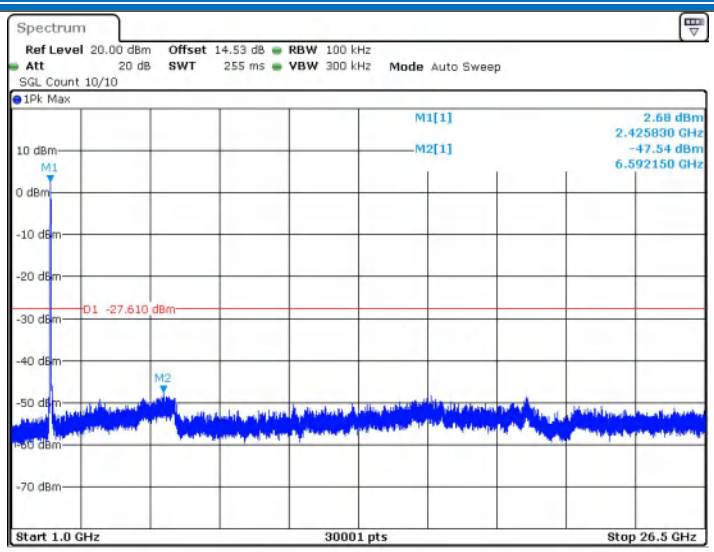

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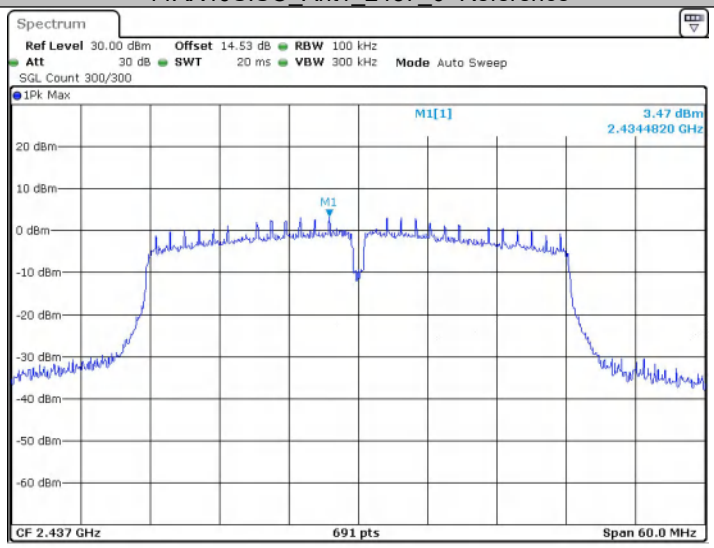

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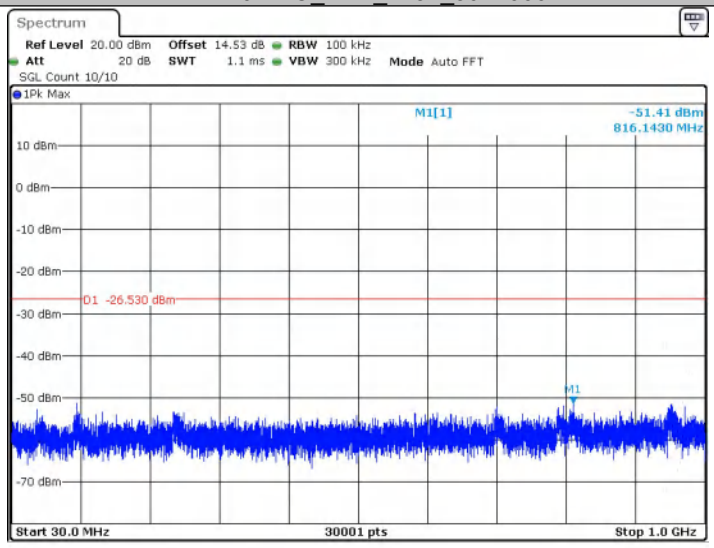

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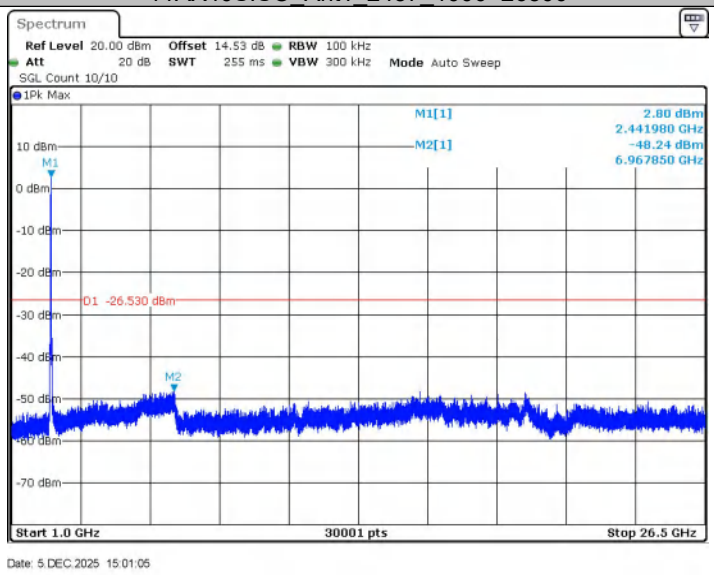

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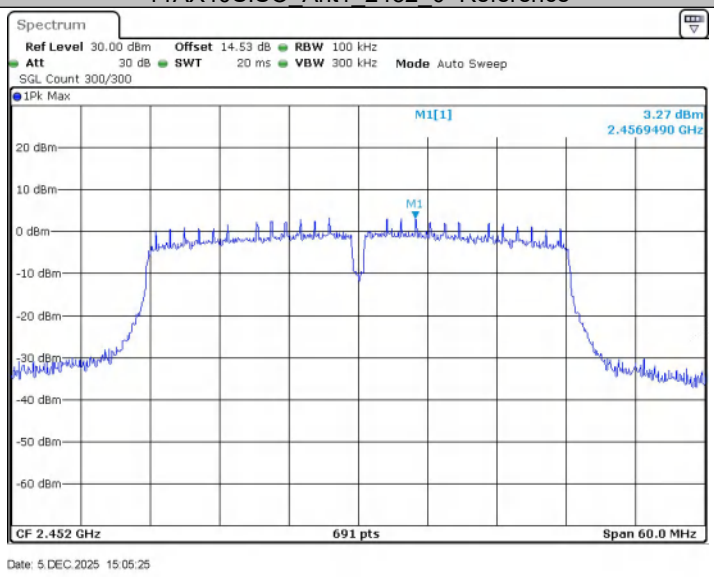

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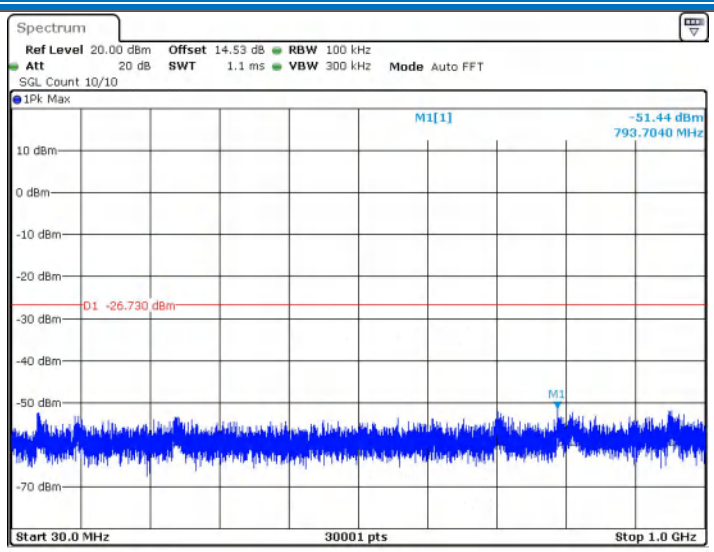

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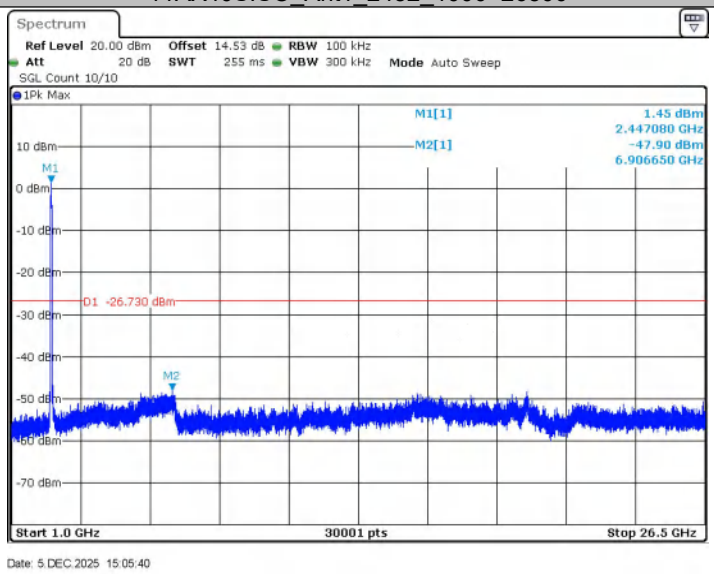

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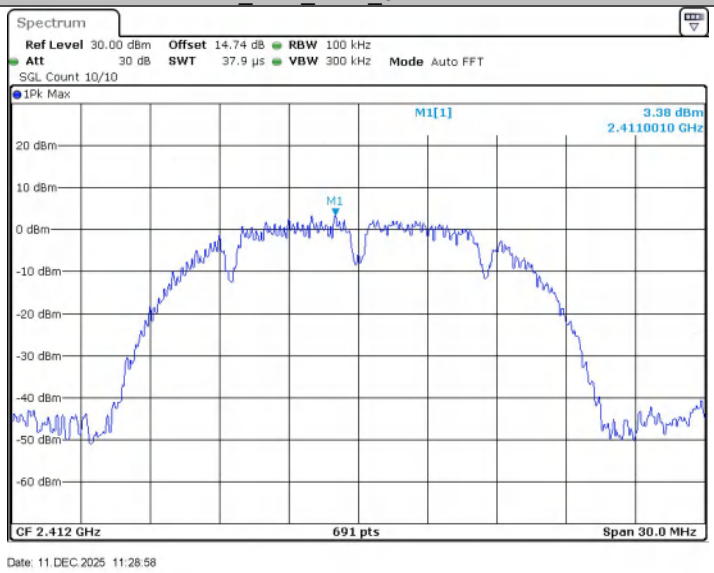

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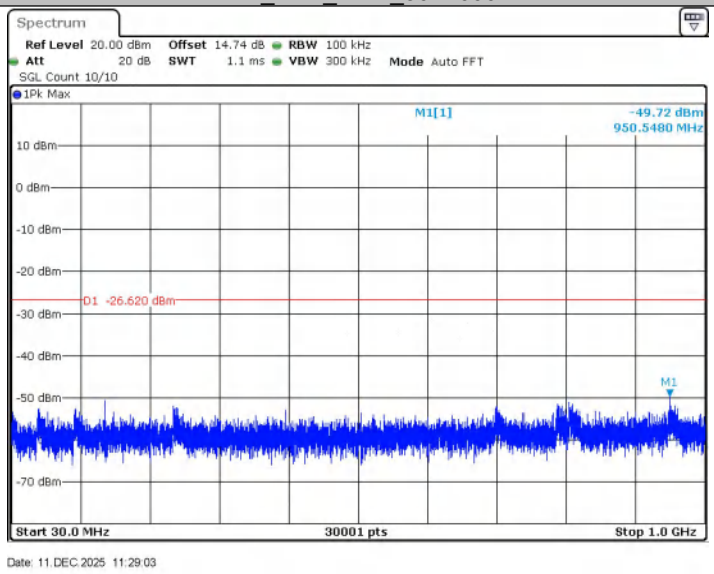

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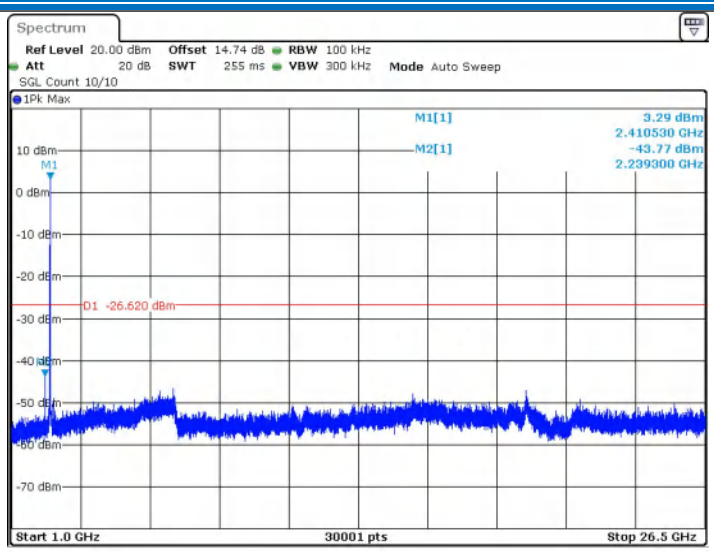

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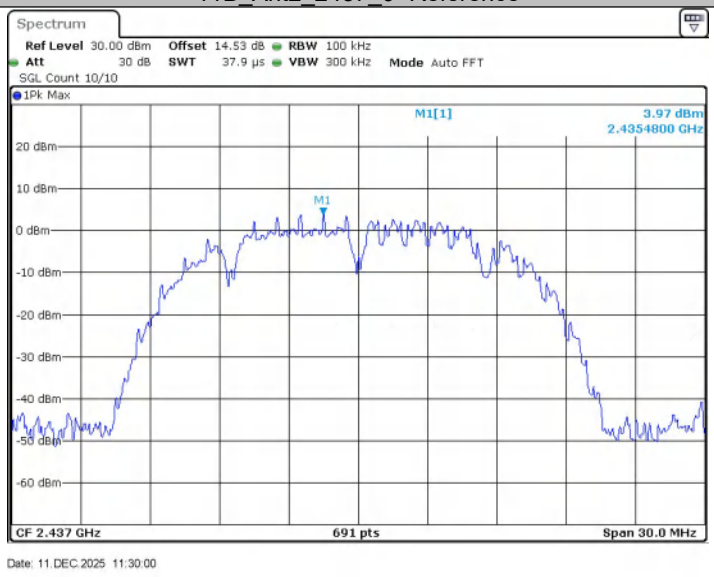

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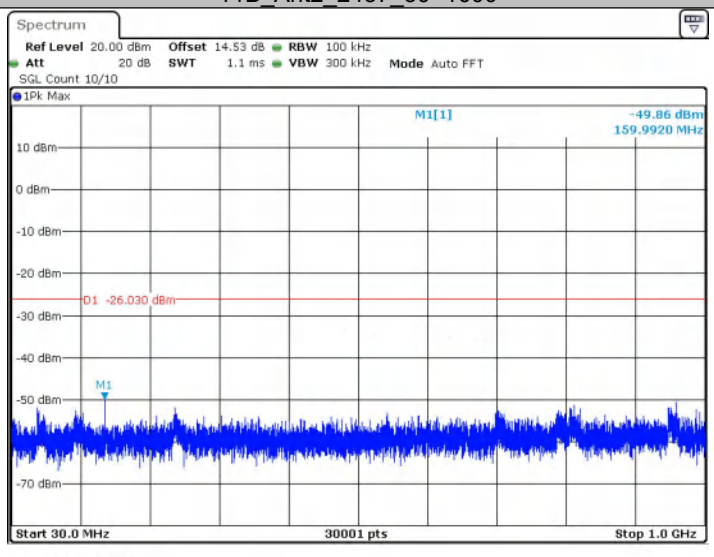

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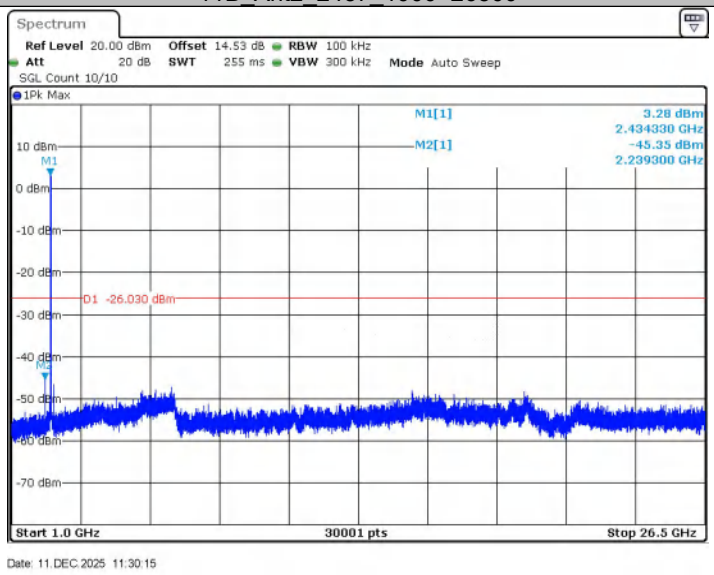

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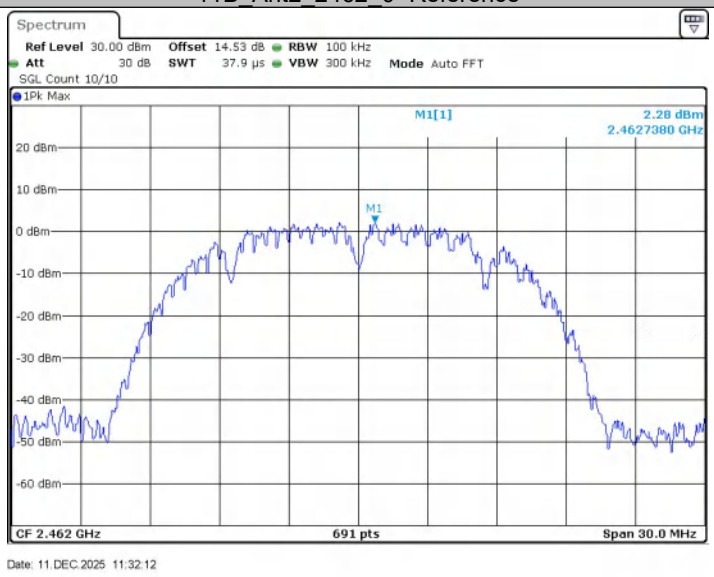

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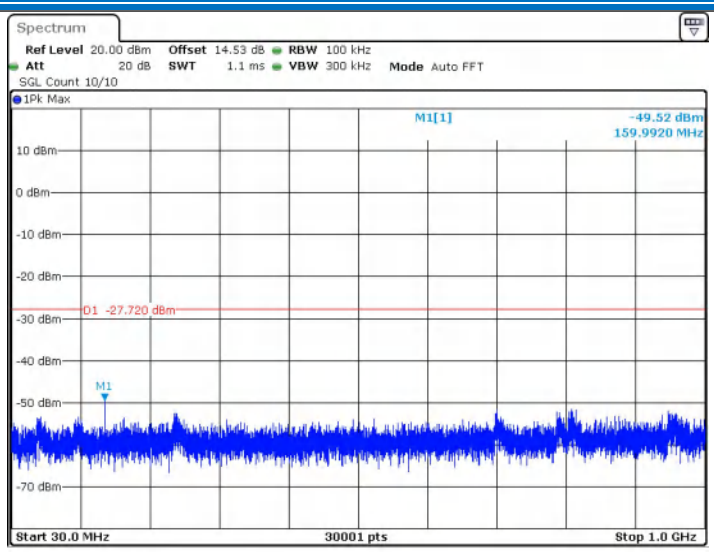

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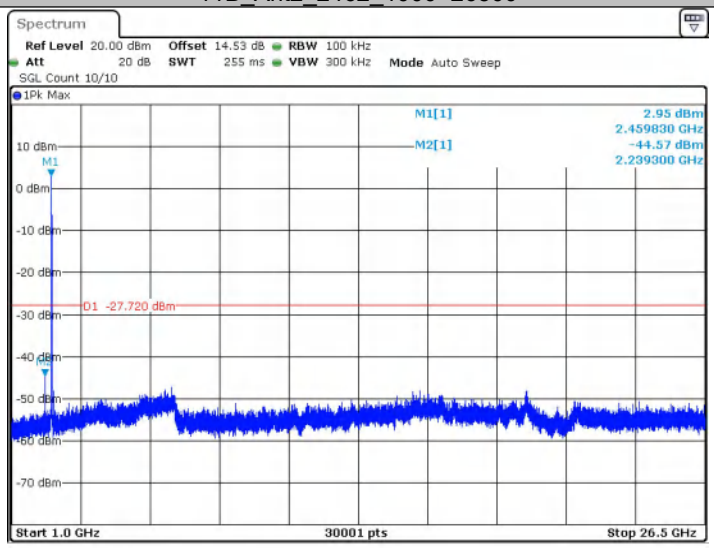

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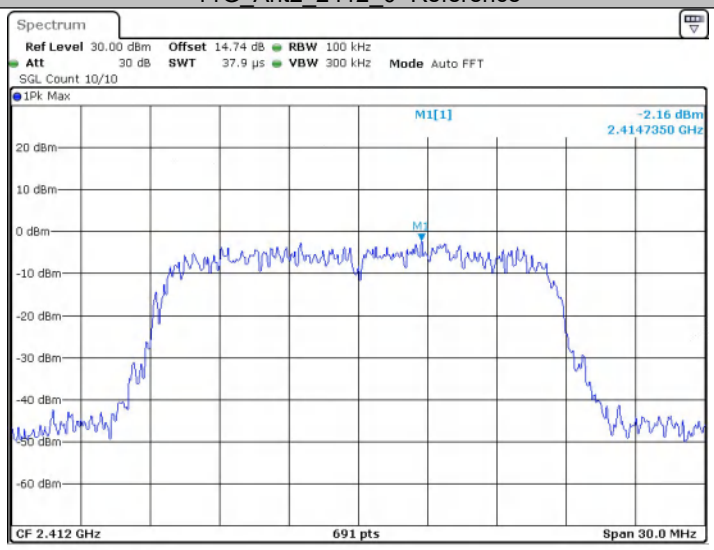

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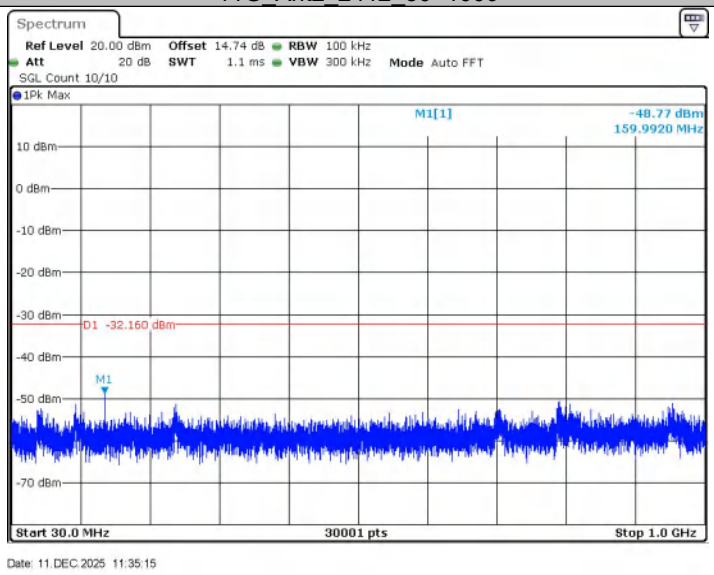

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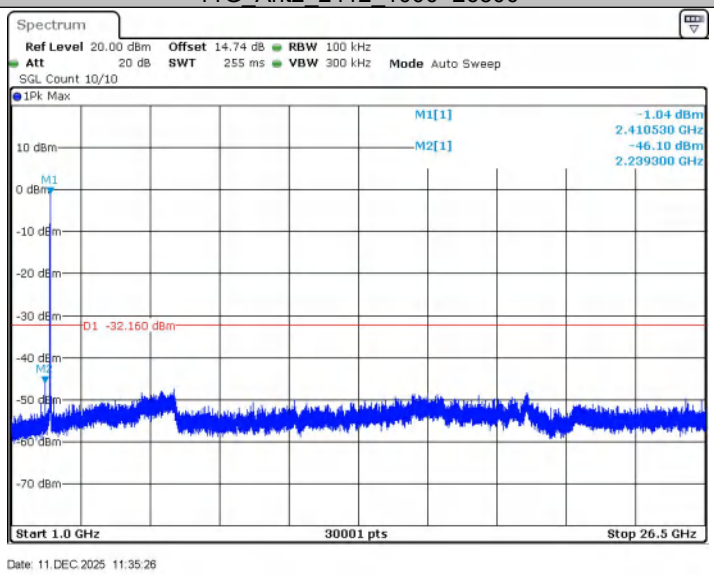

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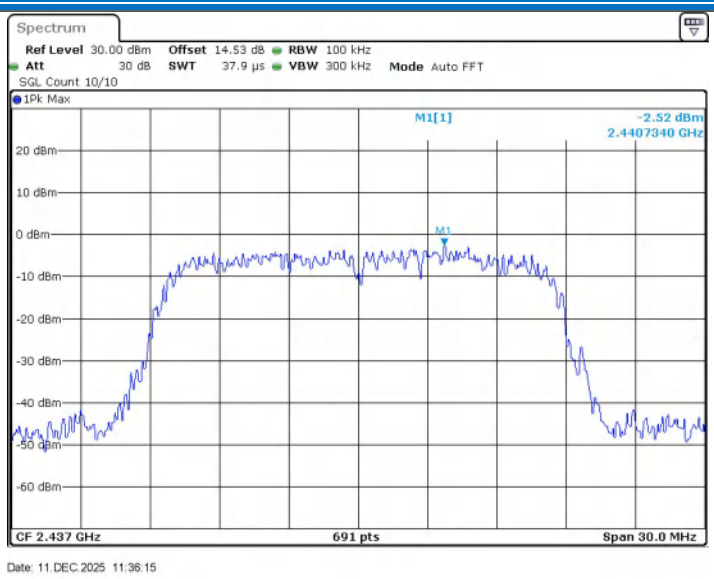

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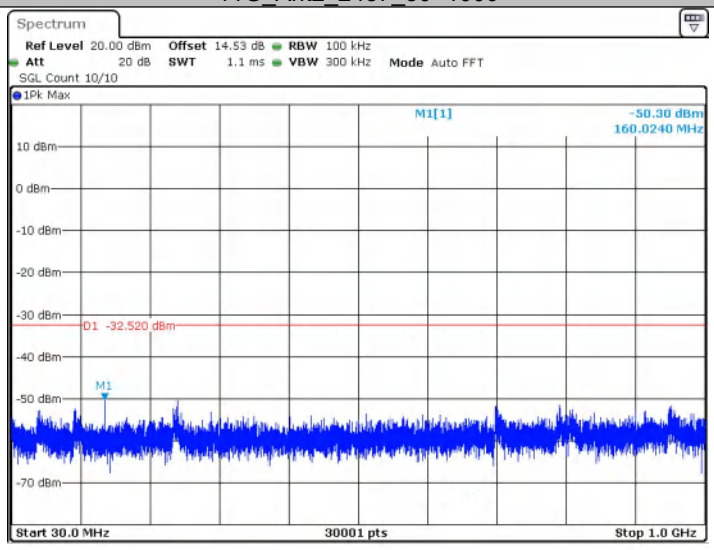

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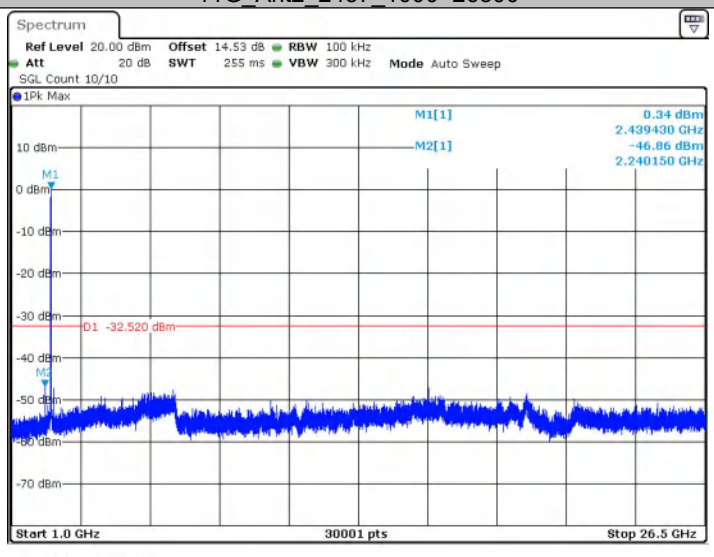

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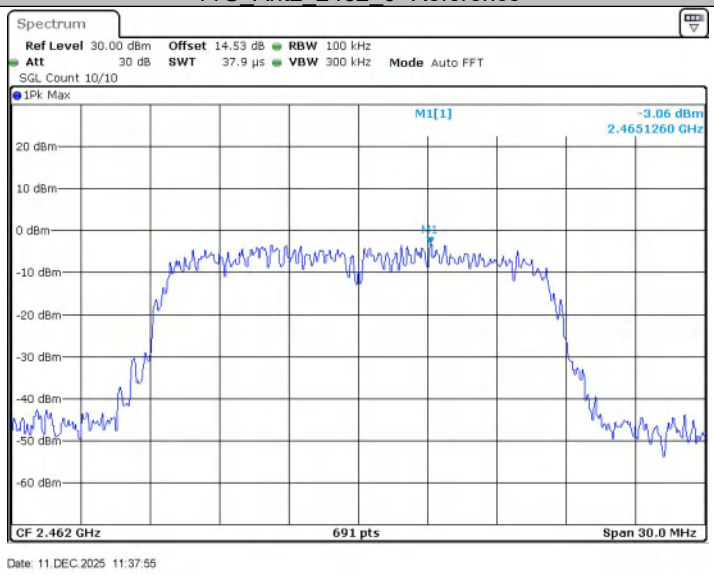

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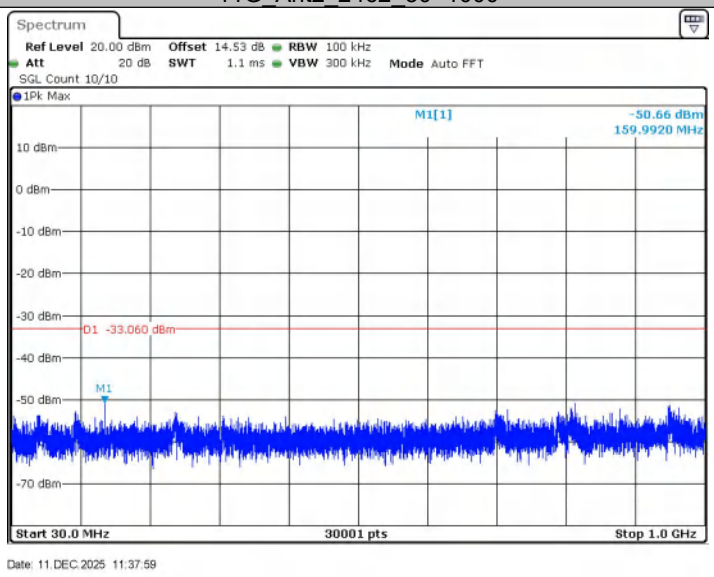

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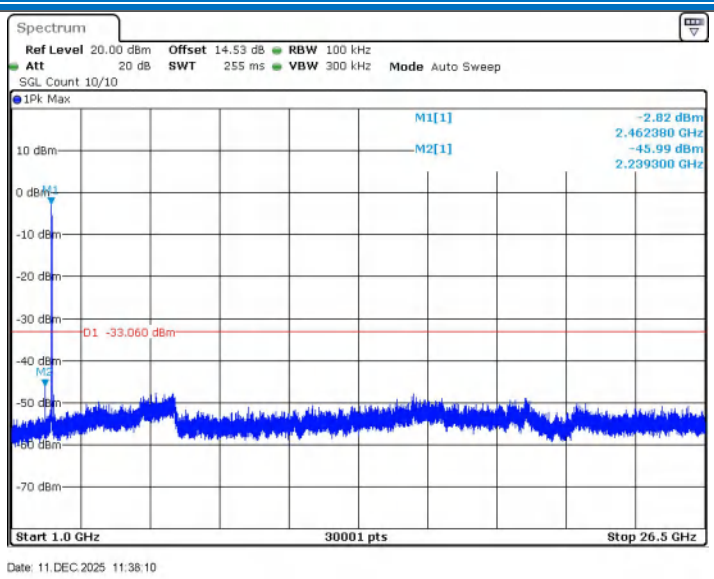

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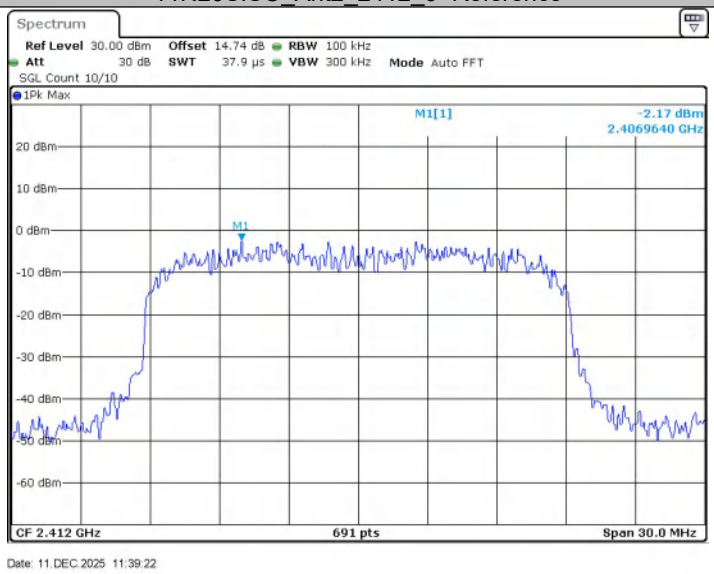

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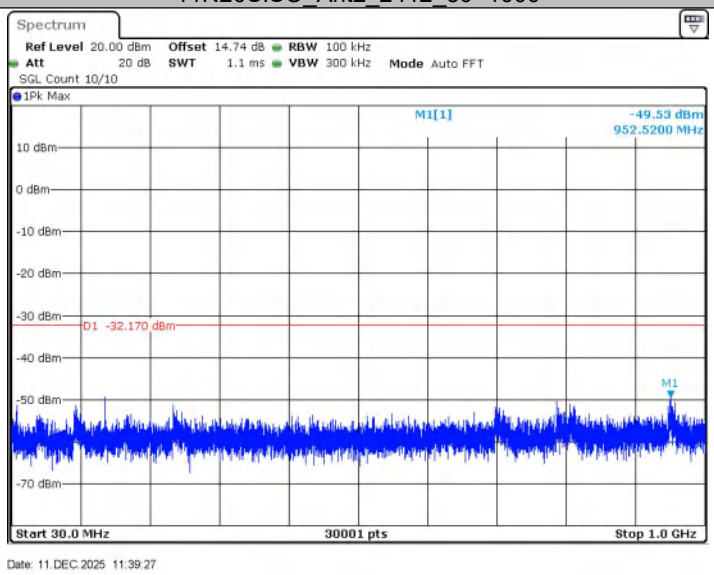

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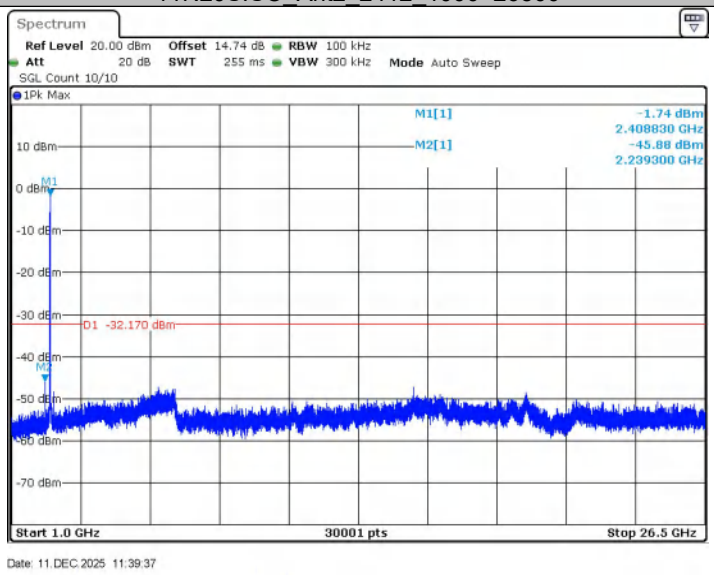

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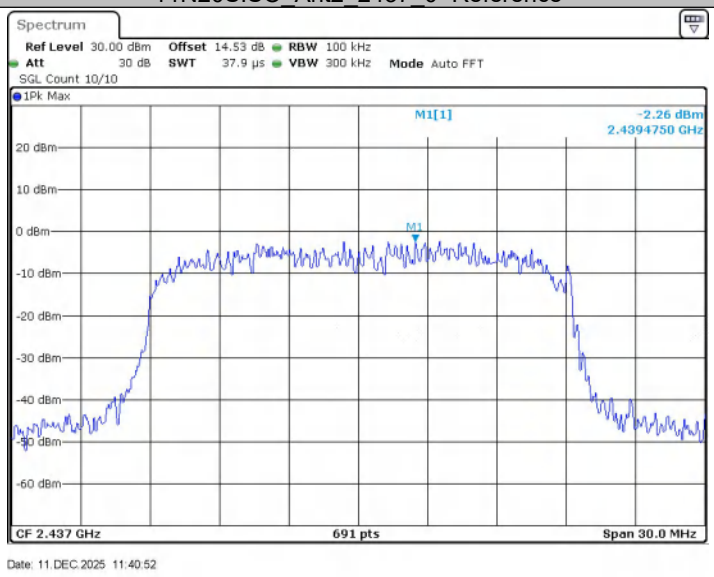

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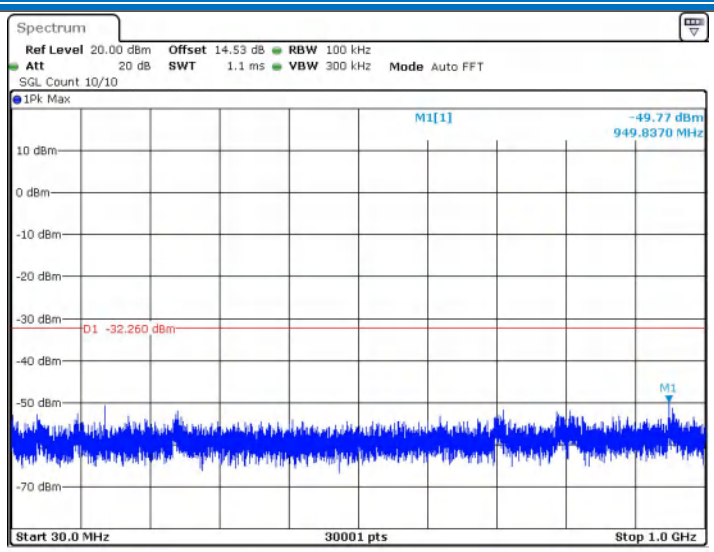

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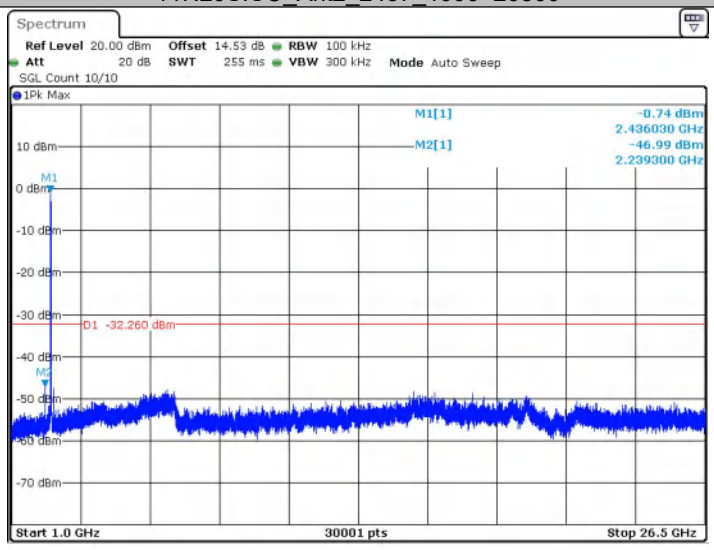

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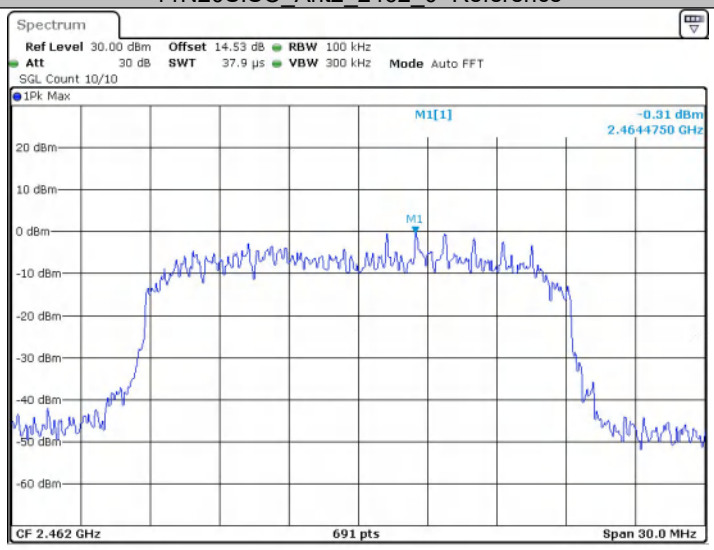

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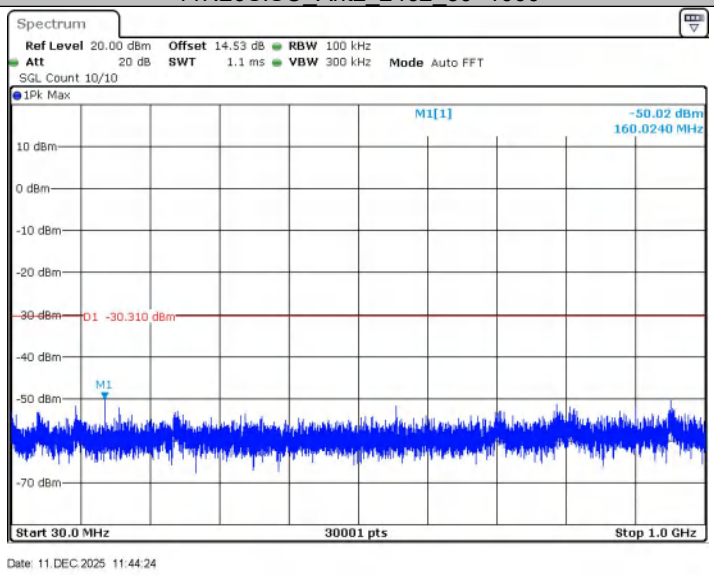

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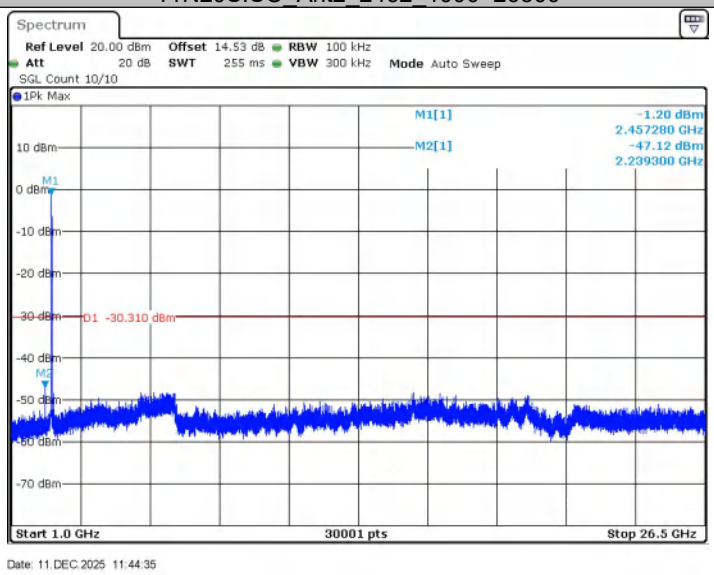

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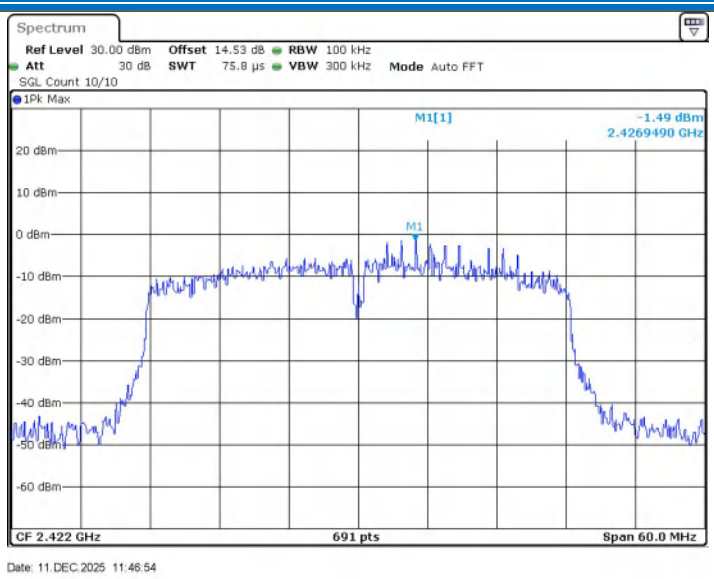

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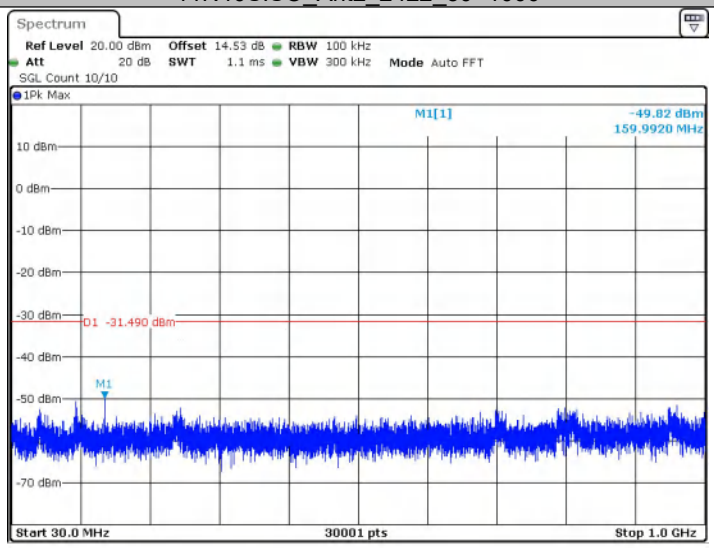

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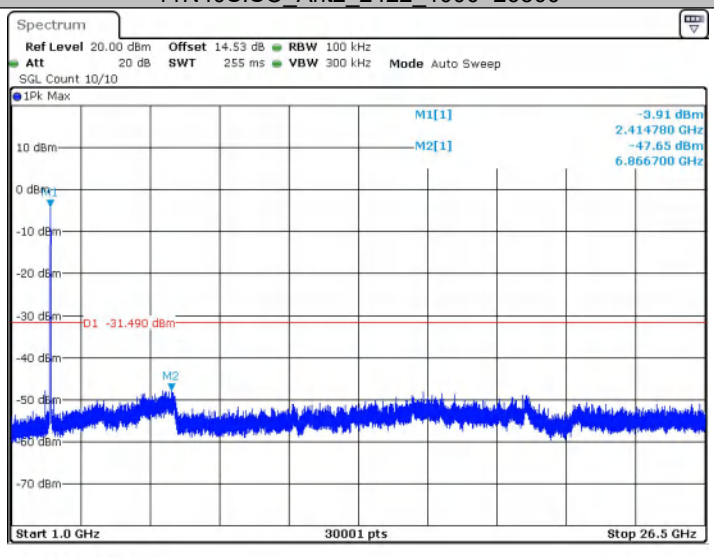

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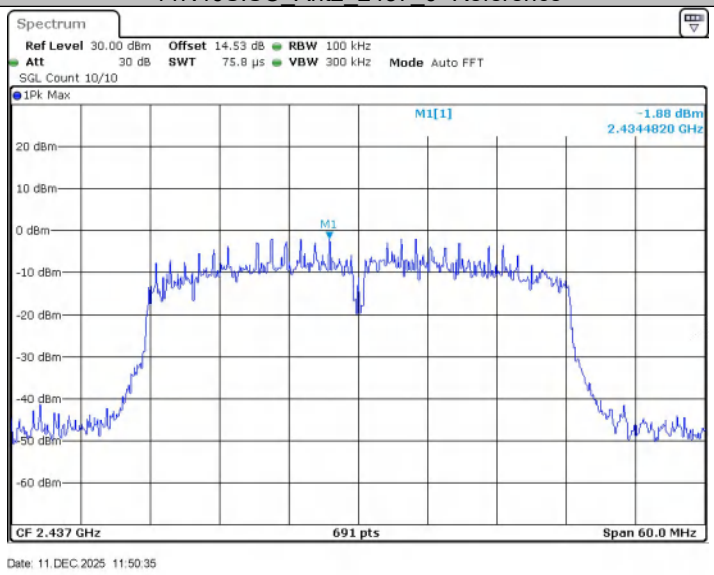

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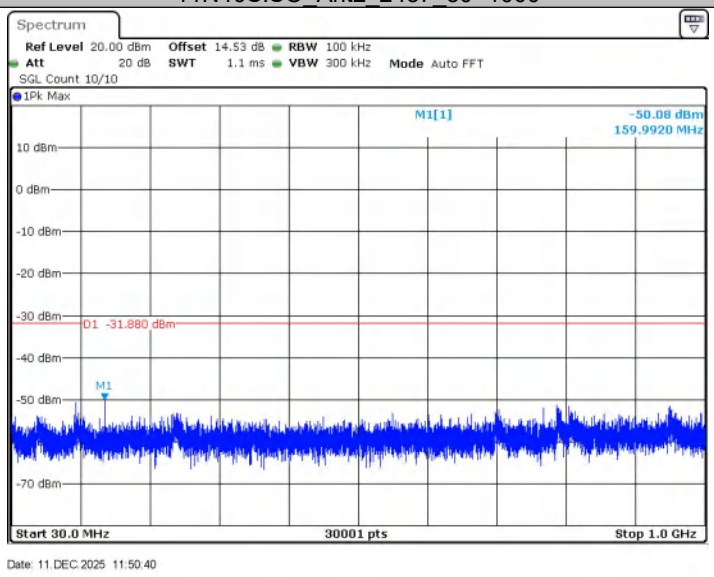

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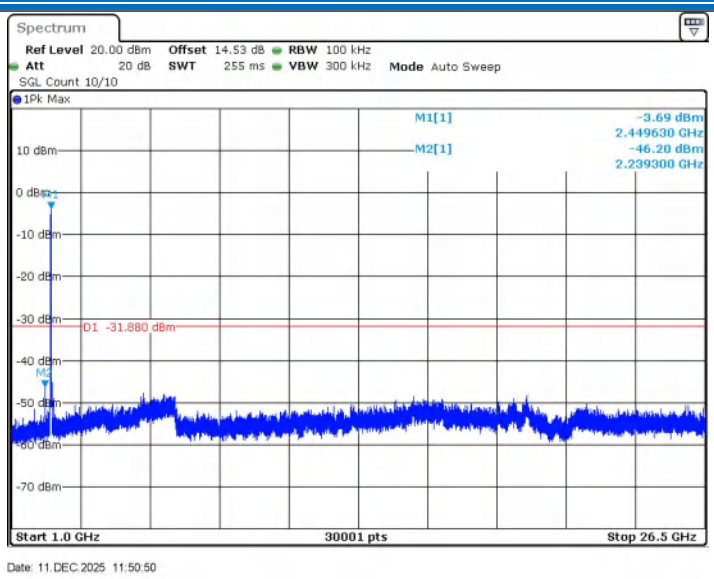

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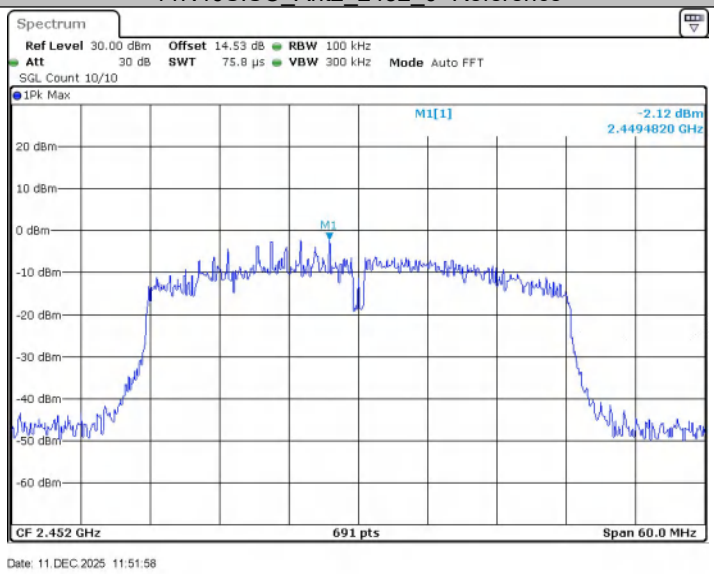

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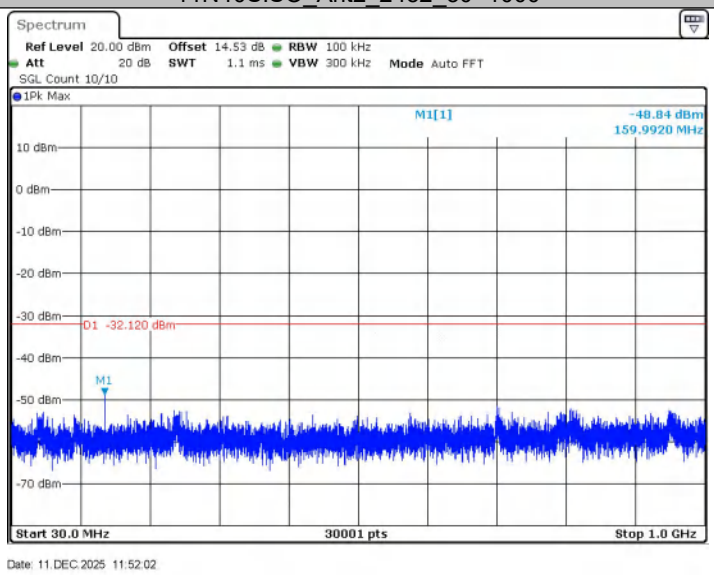

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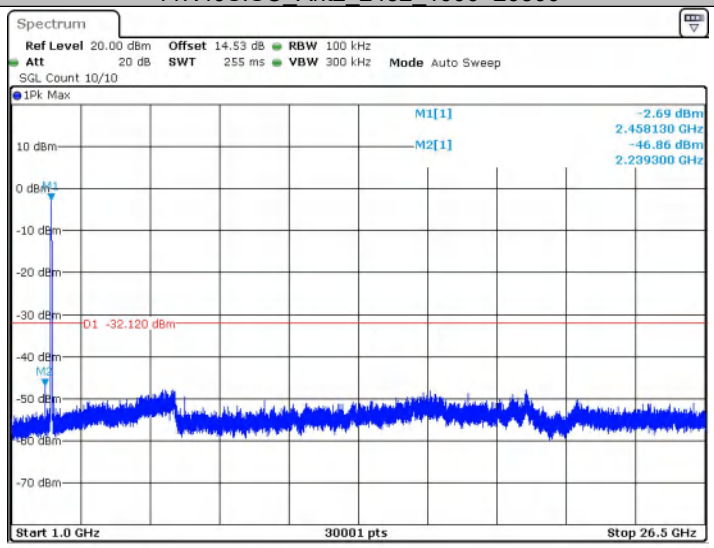

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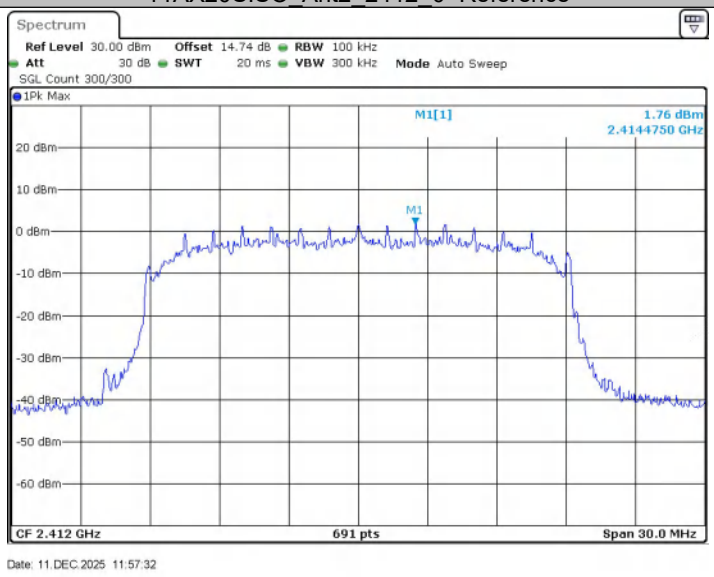

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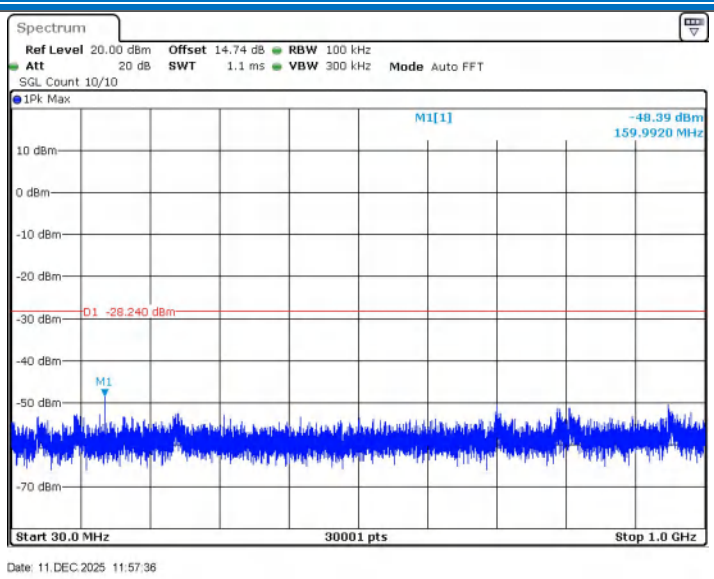

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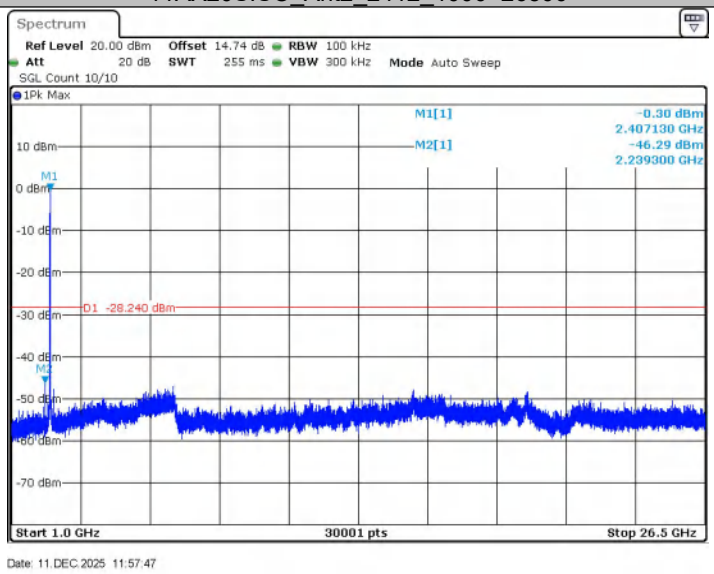

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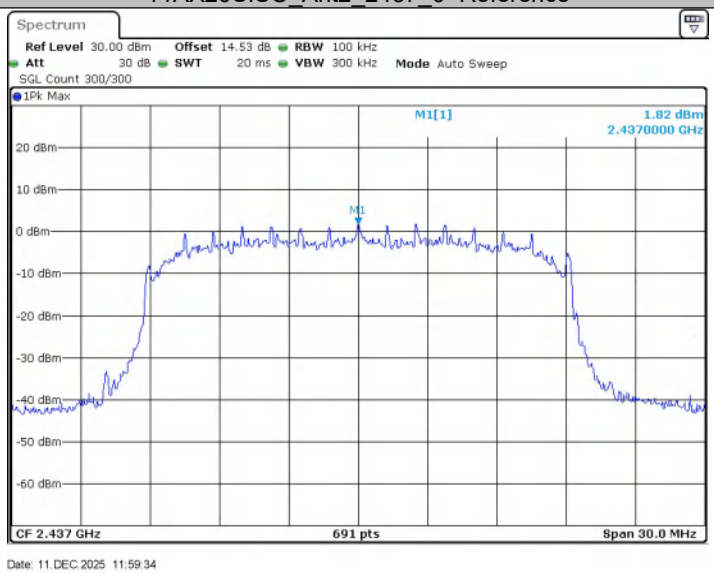

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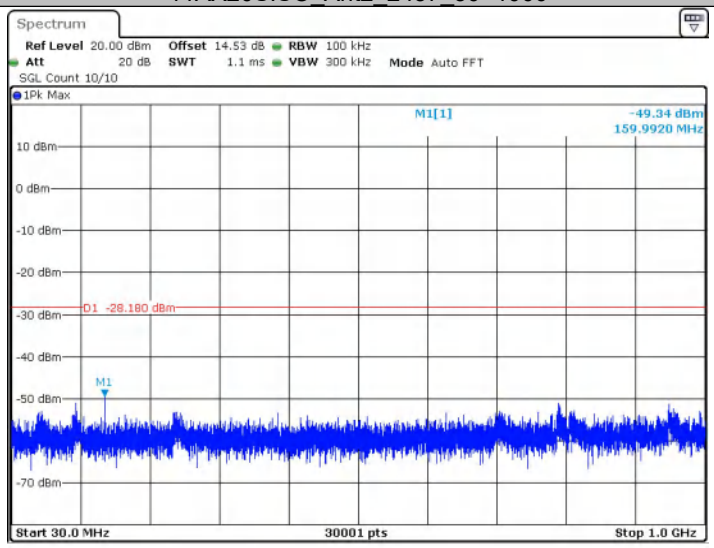

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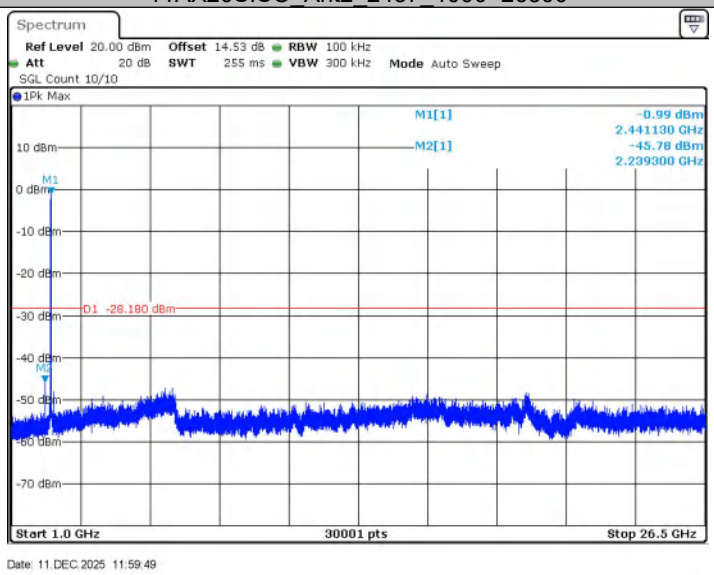

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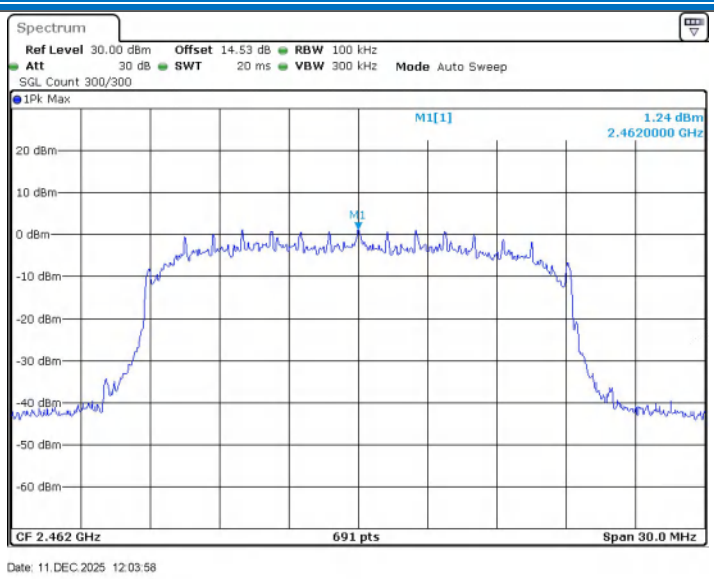

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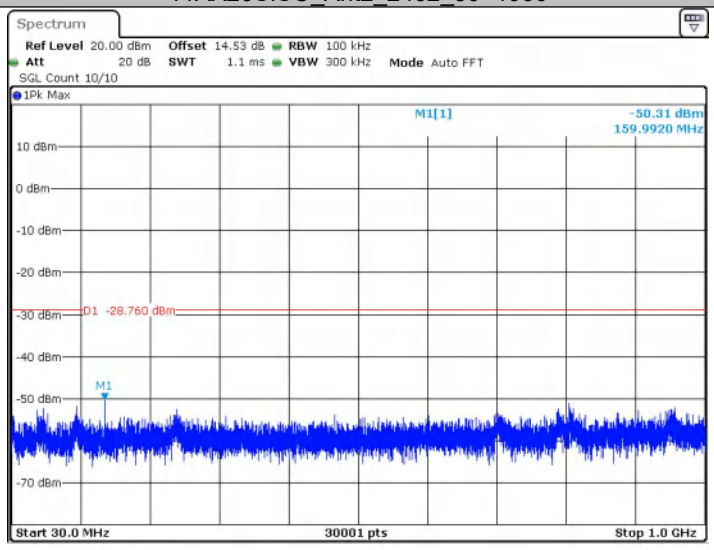

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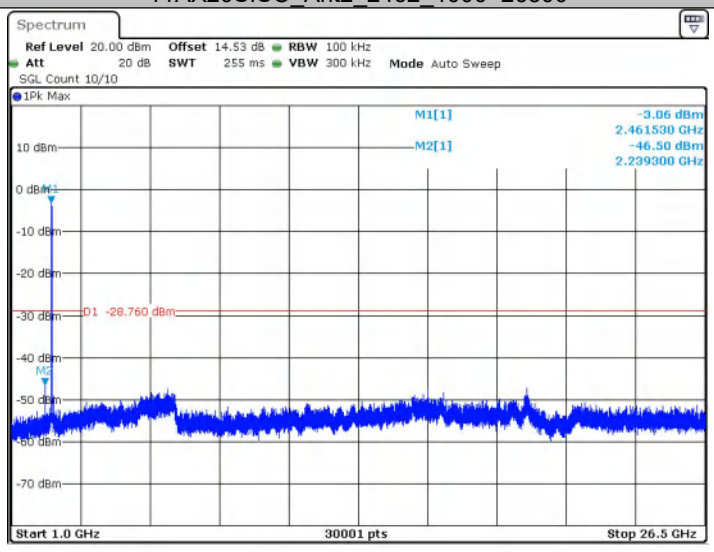

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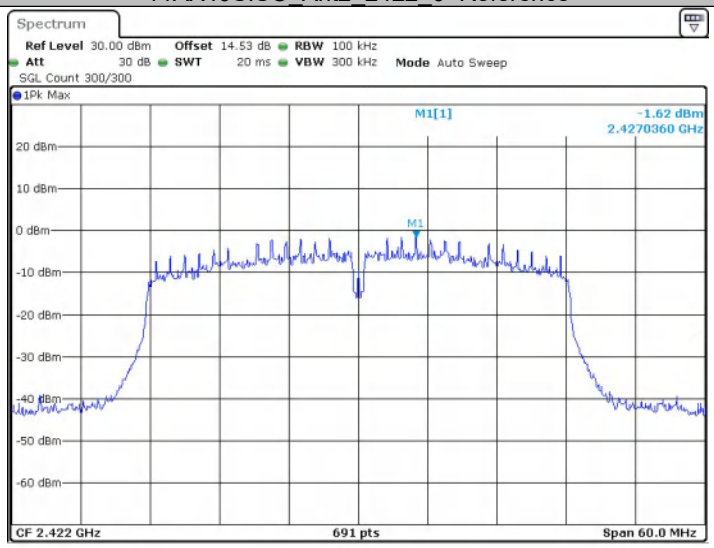

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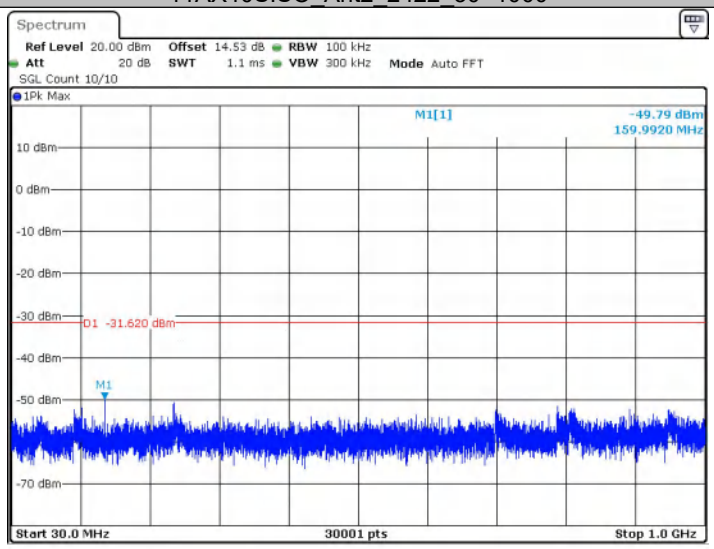

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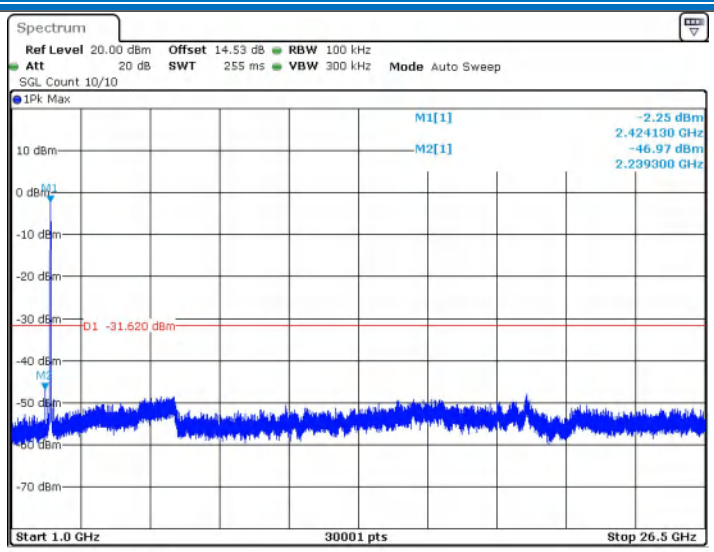

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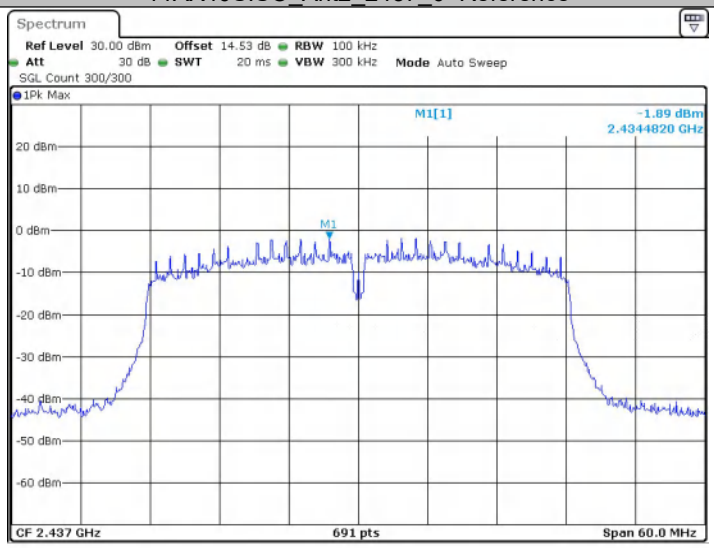

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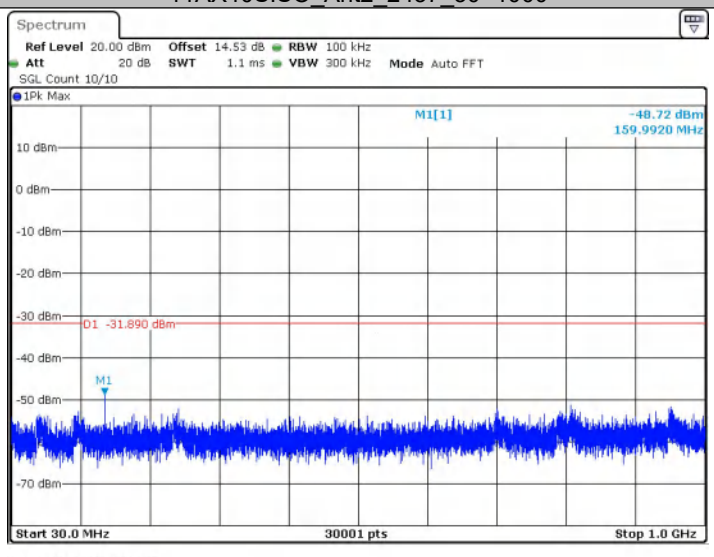

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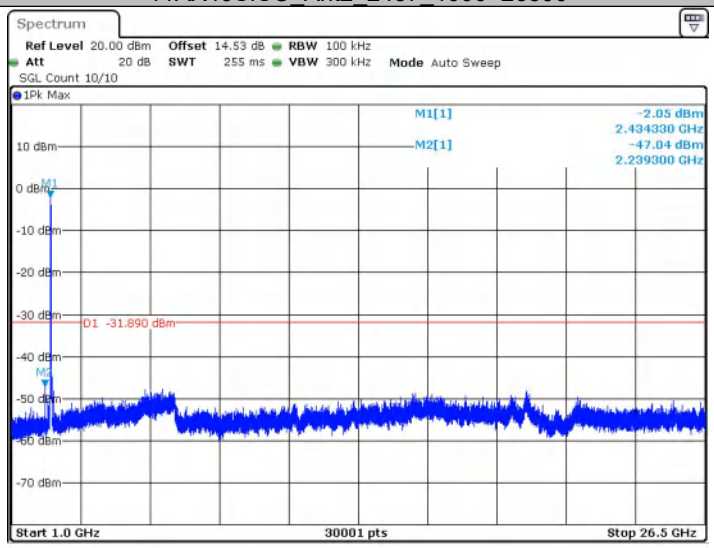

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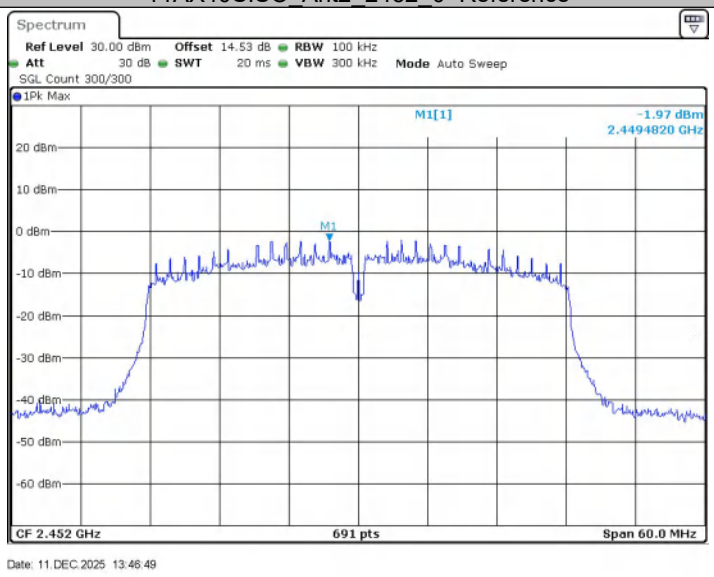

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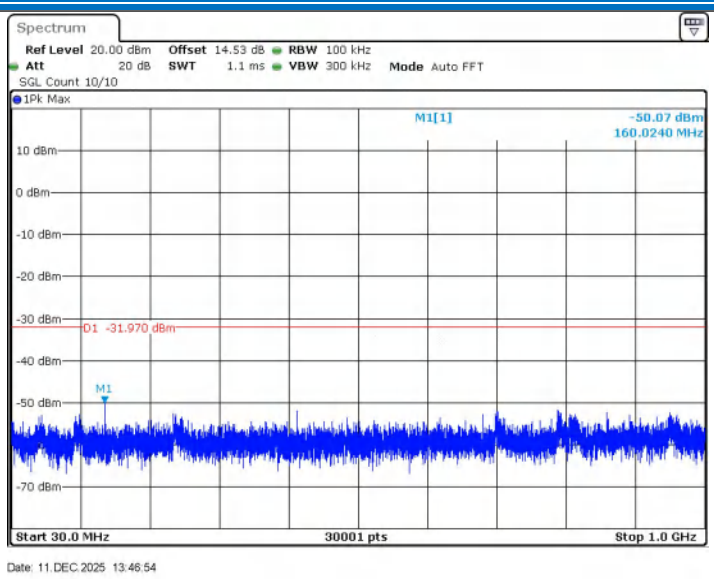

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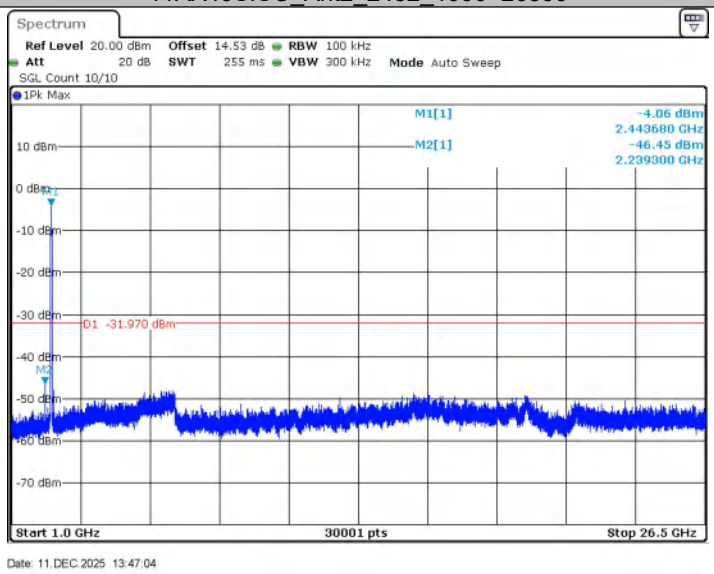


Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

5.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205
Test Method:	ANSI C63.10 2020
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test Setup:	

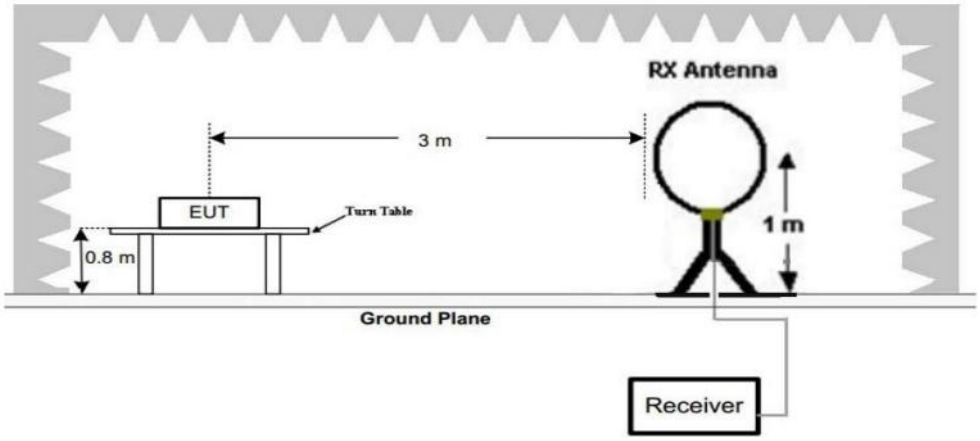


Figure 1. Below 30MHz

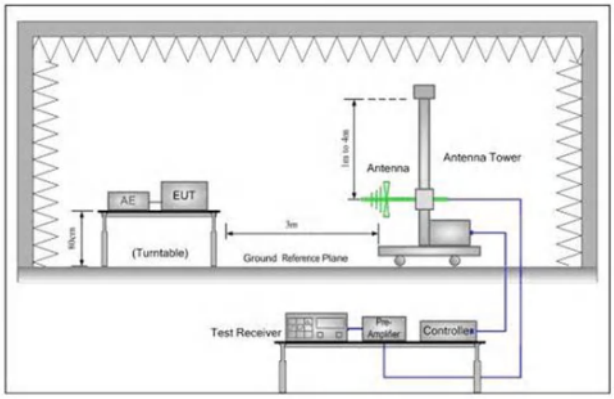


Figure 2. 30MHz to 1GHz

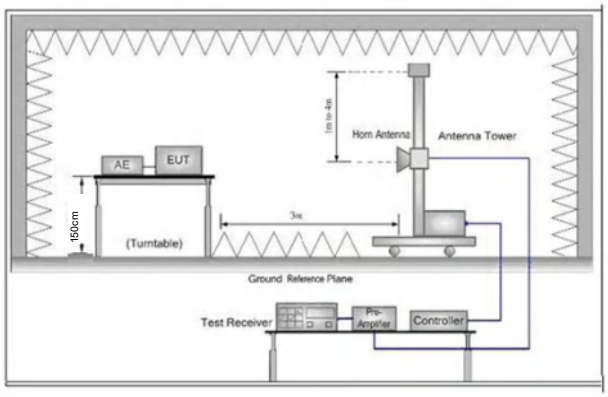


Figure 3. Above 1 GHz

Test Procedure:	a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

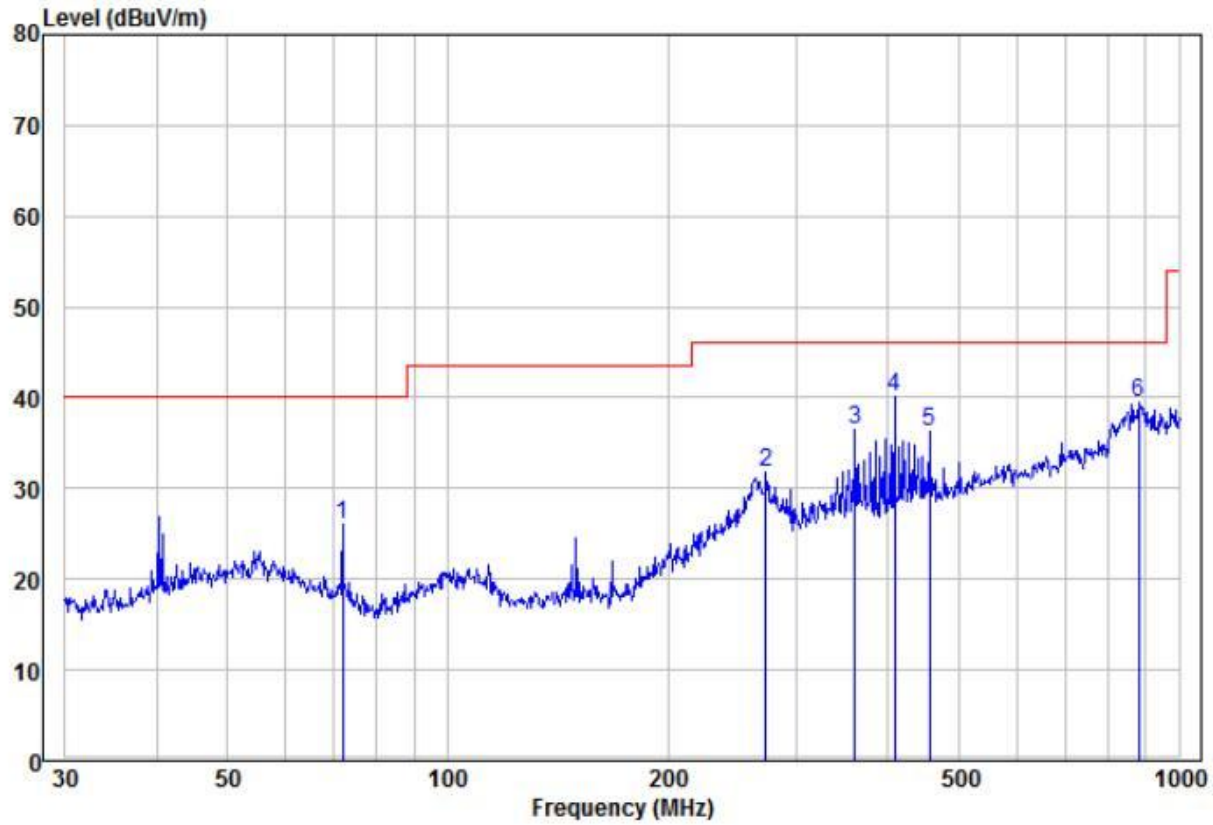
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case . i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting in full-bandwidth single-user mode (Full RU) with all kinds of modulations, and at the lowest, middle, and highest data rates across the channel.
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

5.9.1 Radiated emission below 1GHz

30MHz~1GHz

ANT1+ANT2:

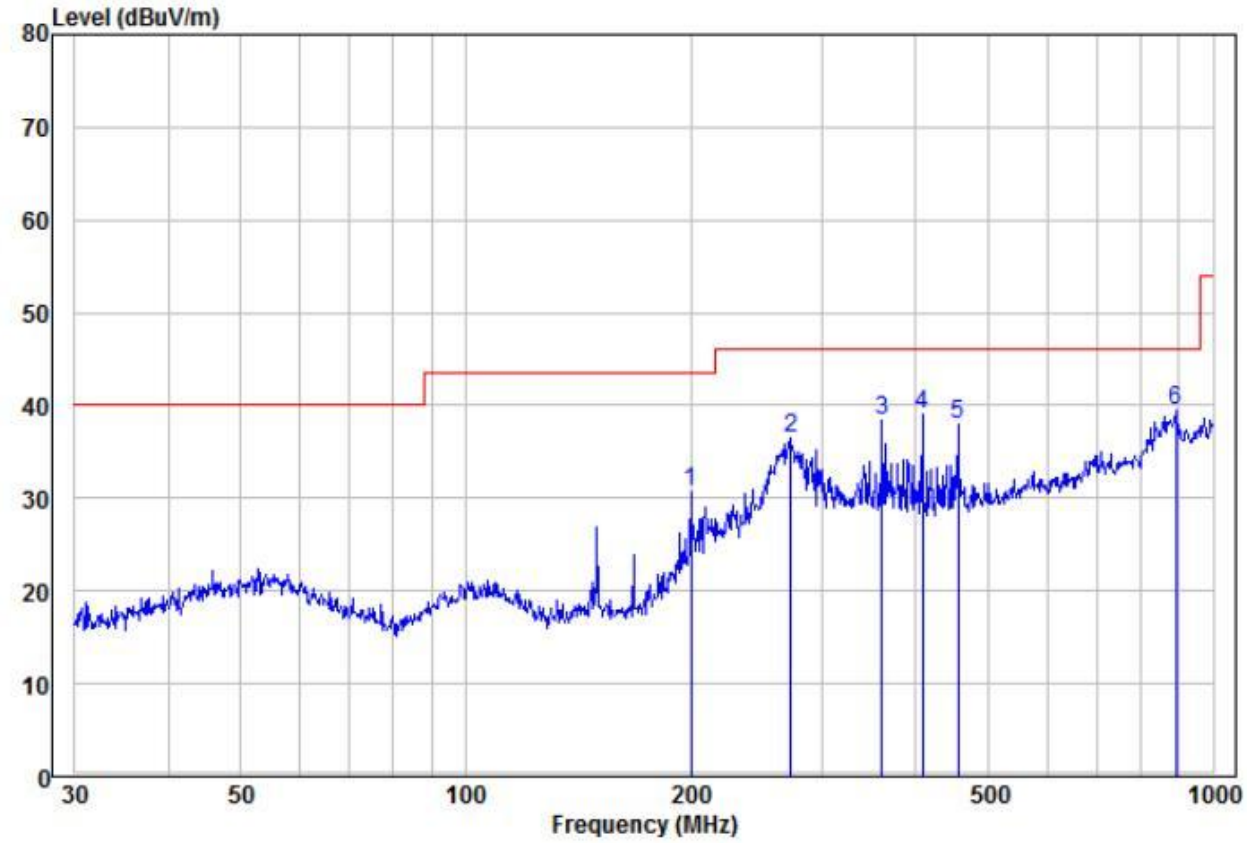
Vertical



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	71.83	26.02	0.00	26.02	40.00	-13.98	Peak	VERTICAL	100	182
2	272.28	29.69	2.00	31.69	46.00	-14.31	Peak	VERTICAL	100	224
3	360.45	34.57	2.00	36.57	46.00	-9.43	Peak	VERTICAL	100	190
4 pp	408.95	39.11	1.00	40.11	46.00	-5.89	Peak	VERTICAL	100	201
5	455.91	35.34	1.00	36.34	46.00	-9.66	Peak	VERTICAL	100	225
6	881.41	36.03	3.50	39.53	46.00	-6.47	Peak	VERTICAL	100	74

Remark:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Factor= Antenna Factor + Cable Factor – Preamplifier Factor,
Level = Read Level + Factor,
Over Limit=Level-Limit Line.

Horizontal



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	APos	TPos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB			cm	deg
1	199.99	30.77	0.00	30.77	43.50	-12.73	Peak	HORIZONTAL	100	17
2	272.28	34.44	2.00	36.44	46.00	-9.56	Peak	HORIZONTAL	100	151
3	360.45	36.46	2.00	38.46	46.00	-7.54	Peak	HORIZONTAL	100	296
4	408.95	37.96	1.00	38.96	46.00	-7.04	Peak	HORIZONTAL	100	28
5	455.91	37.05	1.00	38.05	46.00	-7.95	Peak	HORIZONTAL	100	248
6 pp	890.73	35.86	3.50	39.36	46.00	-6.64	Peak	HORIZONTAL	100	165

Remark:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Factor= Antenna Factor + Cable Factor – Preamplifier Factor,
Level = Read Level + Factor,
Over Limit=Level-Limit Line.

5.9.2 Transmitter emission above 1GHz

ANT1:

Test mode:		802.11b(1Mbps)		Test channel:		Lowest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
4824.000	52.68	-4.26	48.42	74	-25.58	peak	H	1.5	127
4824.000	37.26	-4.26	33.00	54	-21.00	AVG	H	1.5	206
7236.000	51.71	1.18	52.89	74	-21.11	peak	H	1.5	330
7236.000	37.88	1.18	39.06	54	-14.94	AVG	H	1.5	46
4824.000	56.16	-4.26	51.90	74	-22.10	peak	V	1.5	61
4824.000	38.57	-4.26	34.31	54	-19.69	AVG	V	1.5	231
7236.000	50.64	1.18	51.82	74	-22.18	peak	V	1.5	191
7236.000	35.74	1.18	36.92	54	-17.08	AVG	V	1.5	227

Test mode:		802.11b(1Mbps)		Test channel:		Middle			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
4874.000	52.70	-4.12	48.58	74	-25.42	peak	H	1.5	255
4874.000	37.43	-4.12	33.31	54	-20.69	AVG	H	1.5	134
7311.000	48.41	1.46	49.87	74	-24.13	peak	H	1.5	162
7311.000	36.44	1.46	37.90	54	-16.10	AVG	H	1.5	79
4874.000	53.18	-4.12	49.06	74	-24.94	peak	V	1.5	330
4874.000	37.79	-4.12	33.67	54	-20.33	AVG	V	1.5	74
7311.000	49.38	1.46	50.84	74	-23.16	peak	V	1.5	132
7311.000	36.52	1.46	37.98	54	-16.02	AVG	V	1.5	182

Test mode:		802.11b(1Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol. H/V	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)			(m)	(Degree)
4924.000	51.72	-4.03	47.69	74	-26.31	peak	H	1.5	64
4924.000	38.16	-4.03	34.13	54	-19.87	AVG	H	1.5	46
7386.000	49.50	1.66	51.16	74	-22.84	peak	H	1.5	227
7386.000	36.25	1.66	37.91	54	-16.09	AVG	H	1.5	211
4924.000	53.44	-4.03	49.41	74	-24.59	peak	V	1.5	131
4924.000	37.40	-4.03	33.37	54	-20.63	AVG	V	1.5	337
7386.000	50.43	1.66	52.09	74	-21.91	peak	V	1.5	0
7386.000	36.08	1.66	37.74	54	-16.26	AVG	V	1.5	122

Remark:

1) The 1Mbps of rate of 802.11b is the worst case.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

3) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Test mode:		802.11g(6Mbps)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4824.000	53.29	-4.26	49.03	74	-24.97	peak	H	1.5	56
4824.000	36.91	-4.26	32.65	54	-21.35	AVG	H	1.5	310
7236.000	50.59	1.18	51.77	74	-22.23	peak	H	1.5	15
7236.000	38.45	1.18	39.63	54	-14.37	AVG	H	1.5	12
4824.000	55.58	-4.26	51.32	74	-22.68	peak	V	1.5	106
4824.000	38.29	-4.26	34.03	54	-19.97	AVG	V	1.5	335
7236.000	50.65	1.18	51.83	74	-22.17	peak	V	1.5	169
7236.000	36.10	1.18	37.28	54	-16.72	AVG	V	1.5	100

Test mode:		802.11g(6Mbps)		Test channel:		Middle			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4874.000	52.90	-4.12	48.78	74	-25.22	peak	H	1.5	246
4874.000	36.57	-4.12	32.45	54	-21.55	AVG	H	1.5	155
7311.000	50.23	1.46	51.69	74	-22.31	peak	H	1.5	349
7311.000	35.17	1.46	36.63	54	-17.37	AVG	H	1.5	277
4874.000	52.40	-4.12	48.28	74	-25.72	peak	V	1.5	193
4874.000	37.51	-4.12	33.39	54	-20.61	AVG	V	1.5	9
7311.000	50.10	1.46	51.56	74	-22.44	peak	V	1.5	1
7311.000	36.36	1.46	37.82	54	-16.18	AVG	V	1.5	164

Test mode:		802.11g(6Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4924.000	52.14	-4.03	48.11	74	-25.89	peak	H	1.5	324
4924.000	38.52	-4.03	34.49	54	-19.51	AVG	H	1.5	233
7386.000	50.13	1.66	51.79	74	-22.21	peak	H	1.5	116
7386.000	37.38	1.66	39.04	54	-14.96	AVG	H	1.5	238
4924.000	53.93	-4.03	49.90	74	-24.10	peak	V	1.5	31
4924.000	37.75	-4.03	33.72	54	-20.28	AVG	V	1.5	190
7386.000	50.14	1.66	51.80	74	-22.20	peak	V	1.5	317
7386.000	36.03	1.66	37.69	54	-16.31	AVG	V	1.5	50

Remark:

1) The 6Mbps of rate of 802.11g is the worst case.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

3) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

ANT2:

Test mode:		802.11b(1Mbps)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4824.000	53.37	-4.26	49.11	74	-24.89	peak	H	1.5	147
4824.000	36.20	-4.26	31.94	54	-22.06	AVG	H	1.5	104
7236.000	52.01	1.18	53.19	74	-20.81	peak	H	1.5	299
7236.000	37.28	1.18	38.46	54	-15.54	AVG	H	1.5	313
4824.000	55.17	-4.26	50.91	74	-23.09	peak	V	1.5	265
4824.000	39.19	-4.26	34.93	54	-19.07	AVG	V	1.5	103
7236.000	50.99	1.18	52.17	74	-21.83	peak	V	1.5	70
7236.000	36.87	1.18	38.05	54	-15.95	AVG	V	1.5	267

Test mode:		802.11b(1Mbps)		Test channel:		Middle			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4874.000	52.06	-4.12	47.94	74	-26.06	peak	H	1.5	265
4874.000	37.04	-4.12	32.92	54	-21.08	AVG	H	1.5	193
7311.000	49.87	1.46	51.33	74	-22.67	peak	H	1.5	259
7311.000	35.49	1.46	36.95	54	-17.05	AVG	H	1.5	194
4874.000	52.77	-4.12	48.65	74	-25.35	peak	V	1.5	201
4874.000	37.46	-4.12	33.34	54	-20.66	AVG	V	1.5	45
7311.000	48.92	1.46	50.38	74	-23.62	peak	V	1.5	255
7311.000	36.97	1.46	38.43	54	-15.57	AVG	V	1.5	75

Test mode:		802.11b(1Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol. H/V	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)			(m)	(Degree)
4924.000	51.66	-4.03	47.63	74	-26.37	peak	H	1.5	106
4924.000	38.21	-4.03	34.18	54	-19.82	AVG	H	1.5	347
7386.000	51.11	1.66	52.77	74	-21.23	peak	H	1.5	109
7386.000	36.77	1.66	38.43	54	-15.57	AVG	H	1.5	263
4924.000	54.41	-4.03	50.38	74	-23.62	peak	V	1.5	269
4924.000	38.52	-4.03	34.49	54	-19.51	AVG	V	1.5	326
7386.000	50.50	1.66	52.16	74	-21.84	peak	V	1.5	35
7386.000	37.06	1.66	38.72	54	-15.28	AVG	V	1.5	227

Remark:

1) The 1Mbps of rate of 802.11b is the worst case.
2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
   Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
3) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Test mode:		802.11g(6Mbps)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4824.000	53.45	-4.26	49.19	74	-24.81	peak	H	1.5	15
4824.000	36.79	-4.26	32.53	54	-21.47	AVG	H	1.5	213
7236.000	50.45	1.18	51.63	74	-22.37	peak	H	1.5	233
7236.000	38.03	1.18	39.21	54	-14.79	AVG	H	1.5	123
4824.000	55.57	-4.26	51.31	74	-22.69	peak	V	1.5	307
4824.000	39.10	-4.26	34.84	54	-19.16	AVG	V	1.5	266
7236.000	51.38	1.18	52.56	74	-21.44	peak	V	1.5	111
7236.000	36.23	1.18	37.41	54	-16.59	AVG	V	1.5	4

Test mode:		802.11g(6Mbps)		Test channel:		Middle			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4874.000	52.12	-4.12	48.00	74	-26.00	peak	H	1.5	354
4874.000	36.54	-4.12	32.42	54	-21.58	AVG	H	1.5	118
7311.000	48.76	1.46	50.22	74	-23.78	peak	H	1.5	204
7311.000	36.58	1.46	38.04	54	-15.96	AVG	H	1.5	261
4874.000	53.05	-4.12	48.93	74	-25.07	peak	V	1.5	263
4874.000	37.89	-4.12	33.77	54	-20.23	AVG	V	1.5	234
7311.000	48.50	1.46	49.96	74	-24.04	peak	V	1.5	165
7311.000	35.02	1.46	36.48	54	-17.52	AVG	V	1.5	245

Test mode:		802.11g(6Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4924.000	51.82	-4.03	47.79	74	-26.21	peak	H	1.5	90
4924.000	37.00	-4.03	32.97	54	-21.03	AVG	H	1.5	326
7386.000	51.07	1.66	52.73	74	-21.27	peak	H	1.5	114
7386.000	36.47	1.66	38.13	54	-15.87	AVG	H	1.5	200
4924.000	53.36	-4.03	49.33	74	-24.67	peak	V	1.5	261
4924.000	37.26	-4.03	33.23	54	-20.77	AVG	V	1.5	74
7386.000	50.79	1.66	52.45	74	-21.55	peak	V	1.5	0
7386.000	37.76	1.66	39.42	54	-14.58	AVG	V	1.5	112

Remark:

1) The 6Mbps of rate of 802.11g is the worst case.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

3) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

ANT1+ANT2:

Test mode:		802.11n20(13Mbps)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detecto r Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V	(m)	(Degree)
4824.000	53.24	-4.26	48.98	74	-25.02	peak	H	1.5	253
4824.000	36.13	-4.26	31.87	54	-22.13	AVG	H	1.5	132
7236.000	51.74	1.18	52.92	74	-21.08	peak	H	1.5	290
7236.000	37.41	1.18	38.59	54	-15.41	AVG	H	1.5	244
4824.000	56.24	-4.26	51.98	74	-22.02	peak	V	1.5	167
4824.000	39.72	-4.26	35.46	54	-18.54	AVG	V	1.5	182
7236.000	51.62	1.18	52.80	74	-21.20	peak	V	1.5	3
7236.000	35.07	1.18	36.25	54	-17.75	AVG	V	1.5	175

Test mode:		802.11n20(13Mbps)		Test channel:		Middle			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V	(m)	(Degree)
4874.000	52.98	-4.12	48.86	74	-25.14	peak	H	1.5	182
4874.000	37.26	-4.12	33.14	54	-20.86	AVG	H	1.5	293
7311.000	49.12	1.46	50.58	74	-23.42	peak	H	1.5	279
7311.000	36.09	1.46	37.55	54	-16.45	AVG	H	1.5	30
4874.000	53.73	-4.12	49.61	74	-24.39	peak	V	1.5	279
4874.000	36.07	-4.12	31.95	54	-22.05	AVG	V	1.5	169
7311.000	49.50	1.46	50.96	74	-23.04	peak	V	1.5	128
7311.000	36.16	1.46	37.62	54	-16.38	AVG	V	1.5	217

Test mode:		802.11n20(13Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol. H/V	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)			(m)	(Degree)
4924.000	53.03	-4.03	49.00	74	-25.00	peak	H	1.5	294
4924.000	38.13	-4.03	34.10	54	-19.90	AVG	H	1.5	156
7386.000	49.89	1.66	51.55	74	-22.45	peak	H	1.5	18
7386.000	37.56	1.66	39.22	54	-14.78	AVG	H	1.5	235
4924.000	54.47	-4.03	50.44	74	-23.56	peak	V	1.5	255
4924.000	38.66	-4.03	34.63	54	-19.37	AVG	V	1.5	360
7386.000	50.07	1.66	51.73	74	-22.27	peak	V	1.5	112
7386.000	36.14	1.66	37.80	54	-16.20	AVG	V	1.5	141

Remark:

1) The MCS0 of rate of 802.11n20 is the worst case.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

3) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Test mode:		802.11n40(27Mbps)		Test channel:		Lowest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
4824.000	53.69	-4.24	49.45	74	-24.55	peak	H	1.5	96
4824.000	36.79	-4.24	32.55	54	-21.45	AVG	H	1.5	63
7236.000	50.27	1.2	51.47	74	-22.53	peak	H	1.5	123
7236.000	37.80	1.2	39.00	54	-15.00	AVG	H	1.5	1
4824.000	54.62	-4.24	50.38	74	-23.62	peak	V	1.5	327
4824.000	38.29	-4.24	34.05	54	-19.95	AVG	V	1.5	42
7236.000	51.83	1.2	53.03	74	-20.97	peak	V	1.5	58
7236.000	35.16	1.2	36.36	54	-17.64	AVG	V	1.5	125

Test mode:		802.11n40(27Mbps)		Test channel:		Middle			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
4874.000	52.80	-4.12	48.68	74	-25.32	peak	H	1.5	81
4874.000	36.06	-4.12	31.94	54	-22.06	AVG	H	1.5	100
7311.000	50.00	1.46	51.46	74	-22.54	peak	H	1.5	295
7311.000	35.60	1.46	37.06	54	-16.94	AVG	H	1.5	220
4874.000	53.58	-4.12	49.46	74	-24.54	peak	V	1.5	267
4874.000	37.37	-4.12	33.25	54	-20.75	AVG	V	1.5	253
7311.000	48.71	1.46	50.17	74	-23.83	peak	V	1.5	126
7311.000	35.23	1.46	36.69	54	-17.31	AVG	V	1.5	347

Test mode:		802.11n40(27Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol. H/V	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)			(m)	(Degree)
4924.000	52.72	-4.05	48.67	74	-25.33	peak	H	1.5	340
4924.000	36.00	-4.05	31.95	54	-22.05	AVG	H	1.5	74
7386.000	50.80	1.64	52.44	74	-21.56	peak	H	1.5	139
7386.000	37.99	1.64	39.63	54	-14.37	AVG	H	1.5	341
4924.000	54.28	-4.05	50.23	74	-23.77	peak	V	1.5	170
4924.000	38.20	-4.05	34.15	54	-19.85	AVG	V	1.5	7
7386.000	51.73	1.64	53.37	74	-20.63	peak	V	1.5	249
7386.000	36.11	1.64	37.75	54	-16.25	AVG	V	1.5	257

Remark:

1) The MCS0 of rate of 802.11n40 is the worst case.
2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
   Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
3) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Test mode:		802.11ax20(17.2Mbps)		Test channel:		Lowest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
4824.000	53.90	-4.26	49.64	74	-24.36	peak	H	1.5	115
4824.000	36.19	-4.26	31.93	54	-22.07	AVG	H	1.5	109
7236.000	50.60	1.18	51.78	74	-22.22	peak	H	1.5	344
7236.000	38.25	1.18	39.43	54	-14.57	AVG	H	1.5	267
4824.000	54.32	-4.26	50.06	74	-23.94	peak	V	1.5	10
4824.000	39.91	-4.26	35.65	54	-18.35	AVG	V	1.5	190
7236.000	50.77	1.18	51.95	74	-22.05	peak	V	1.5	203
7236.000	35.39	1.18	36.57	54	-17.43	AVG	V	1.5	17

Test mode:		802.11ax20(17.2Mbps)		Test channel:		Middle			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
4874.000	52.00	-4.12	47.88	74	-26.12	peak	H	1.5	25
4874.000	36.52	-4.12	32.40	54	-21.60	AVG	H	1.5	157
7311.000	49.87	1.46	51.33	74	-22.67	peak	H	1.5	37
7311.000	35.24	1.46	36.70	54	-17.30	AVG	H	1.5	232
4874.000	52.60	-4.12	48.48	74	-25.52	peak	V	1.5	25
4874.000	37.69	-4.12	33.57	54	-20.43	AVG	V	1.5	212
7311.000	49.27	1.46	50.73	74	-23.27	peak	V	1.5	28
7311.000	36.79	1.46	38.25	54	-15.75	AVG	V	1.5	98

Test mode:		802.11ax20(17.2Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4924.000	52.80	-4.03	48.77	74	-25.23	peak	H	1.5	117
4924.000	38.90	-4.03	34.87	54	-19.13	AVG	H	1.5	196
7386.000	51.08	1.66	52.74	74	-21.26	peak	H	1.5	129
7386.000	36.77	1.66	38.43	54	-15.57	AVG	H	1.5	300
4924.000	54.43	-4.03	50.40	74	-23.60	peak	V	1.5	165
4924.000	38.90	-4.03	34.87	54	-19.13	AVG	V	1.5	2
7386.000	51.22	1.66	52.88	74	-21.12	peak	V	1.5	321
7386.000	36.08	1.66	37.74	54	-16.26	AVG	V	1.5	360

Remark:

1) The MCS0 of rate of 802.11ax20 is the worst case.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

3) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Test mode:		802.11ax40(34.4Mbps)		Test channel:		Lowest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
4824.000	52.90	-4.24	48.66	74	-25.34	peak	H	1.5	44
4824.000	36.99	-4.24	32.75	54	-21.25	AVG	H	1.5	68
7236.000	50.44	1.2	51.64	74	-22.36	peak	H	1.5	248
7236.000	38.77	1.2	39.97	54	-14.03	AVG	H	1.5	226
4824.000	55.59	-4.24	51.35	74	-22.65	peak	V	1.5	138
4824.000	38.70	-4.24	34.46	54	-19.54	AVG	V	1.5	320
7236.000	51.44	1.2	52.64	74	-21.36	peak	V	1.5	131
7236.000	35.96	1.2	37.16	54	-16.84	AVG	V	1.5	249

Test mode:		802.11ax40(34.4Mbps)		Test channel:		Middle			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
4874.000	52.70	-4.12	48.58	74	-25.42	peak	H	1.5	229
4874.000	36.87	-4.12	32.75	54	-21.25	AVG	H	1.5	330
7311.000	49.27	1.46	50.73	74	-23.27	peak	H	1.5	89
7311.000	35.82	1.46	37.28	54	-16.72	AVG	H	1.5	24
4874.000	52.68	-4.12	48.56	74	-25.44	peak	V	1.5	175
4874.000	36.70	-4.12	32.58	54	-21.42	AVG	V	1.5	353
7311.000	50.01	1.46	51.47	74	-22.53	peak	V	1.5	239
7311.000	36.31	1.46	37.77	54	-16.23	AVG	V	1.5	206

Test mode:		802.11ax40(34.4Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4924.000	53.54	-4.05	49.49	74	-24.51	peak	H	1.5	333
4924.000	37.07	-4.05	33.02	54	-20.98	AVG	H	1.5	197
7386.000	51.58	1.64	53.22	74	-20.78	peak	H	1.5	252
7386.000	37.53	1.64	39.17	54	-14.83	AVG	H	1.5	172
4924.000	56.18	-4.05	52.13	74	-21.87	peak	V	1.5	136
4924.000	39.98	-4.05	35.93	54	-18.07	AVG	V	1.5	97
7386.000	52.20	1.64	53.84	74	-20.16	peak	V	1.5	145
7386.000	35.02	1.64	36.66	54	-17.34	AVG	V	1.5	233

Remark:

1) The MCS0 of rate of 802.11ax40 is the worst case.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

3) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

5.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205
Test Method:	ANSI C63.10 2020
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Limit:	

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
	74.0	Peak Value

Test Setup:

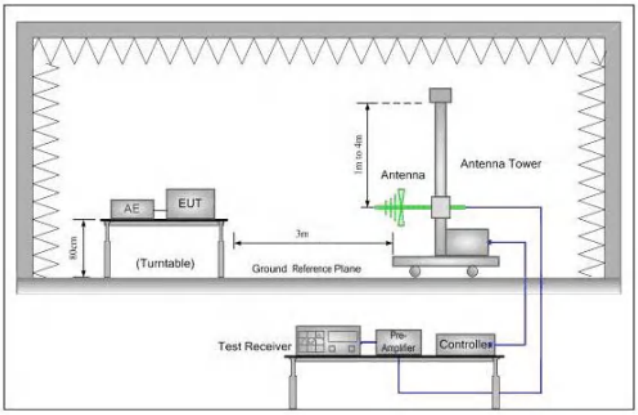


Figure 1. 30MHz to 1GHz

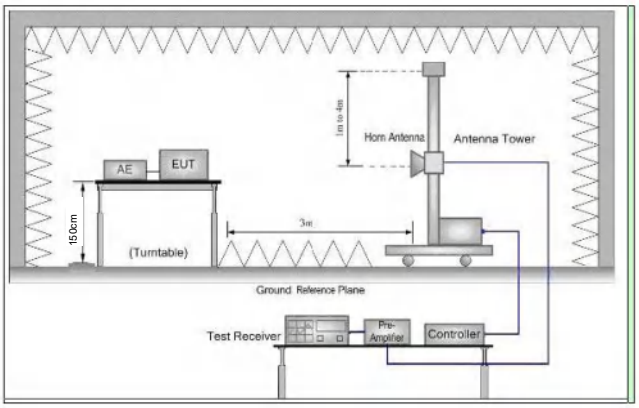


Figure 2. Above 1 GHz

Test Procedure:

a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
Note: For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and

	then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case . i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting in full-bandwidth single-user mode (Full RU) with all kinds of modulations, and at the lowest, middle, and highest data rates across the channel.
Final Test Mode:	Pretest the EUT at Transmitting mode, found the Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40),8.6Mbps of rate is the worst case of 802.11ax(HE20); 17.2Mbps of rate is the worst case of 802.11ax(HE40). Only the worst case is recorded in the report.
Test Results:	Pass

Test data:

ANT1:

Worse case mode:		802.11b(1Mbps)		Test channel:		Lowest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
2390.000	58.66	-9.2	49.46	74	-24.54	peak	H	1.5	165
2390.000	44.43	-9.2	35.23	54	-18.77	AVG	H	1.5	228
2400.000	59.99	-9.39	50.60	74	-23.40	peak	H	1.5	187
2400.000	46.70	-9.39	37.31	54	-16.69	AVG	H	1.5	23
2390.000	58.41	-9.2	49.21	74	-24.79	peak	V	1.5	348
2390.000	44.01	-9.2	34.81	54	-19.19	AVG	V	1.5	337
2400.000	59.41	-9.39	50.02	74	-23.98	peak	V	1.5	181
2400.000	46.05	-9.39	36.66	54	-17.34	AVG	V	1.5	299

Worse case mode:		802.11b(1Mbps)		Test channel:		Highest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
2483.500	57.80	-9.29	48.51	74	-25.49	peak	H	1.5	314
2483.500	43.91	-9.29	34.62	54	-19.38	AVG	H	1.5	216
2483.500	57.84	-9.29	48.55	74	-25.45	peak	V	1.5	261
2483.500	46.11	-9.29	36.82	54	-17.18	AVG	V	1.5	86

Worse case mode:		802.11g(6Mbps)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
2390.000	58.37	-9.2	49.17	74	-24.83	peak	H	1.5	109
2390.000	44.53	-9.2	35.33	54	-18.67	AVG	H	1.5	218
2400.000	60.10	-9.39	50.71	74	-23.29	peak	H	1.5	22
2400.000	46.67	-9.39	37.28	54	-16.72	AVG	H	1.5	158
2390.000	58.99	-9.2	49.79	74	-24.21	peak	V	1.5	195
2390.000	44.77	-9.2	35.57	54	-18.43	AVG	V	1.5	138
2400.000	59.24	-9.39	49.85	74	-24.15	peak	V	1.5	28
2400.000	46.69	-9.39	37.30	54	-16.70	AVG	V	1.5	268

Worse case mode:		802.11g(6Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
2483.500	57.54	-9.29	48.25	74	-25.75	peak	H	1.5	233
2483.500	43.52	-9.29	34.23	54	-19.77	AVG	H	1.5	137
2483.500	57.71	-9.29	48.42	74	-25.58	peak	V	1.5	261
2483.500	46.42	-9.29	37.13	54	-16.87	AVG	V	1.5	141

ANT2:

Worse case mode:		802.11b(1Mbps)		Test channel:		Lowest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
2390.000	58.83	-9.2	49.63	74	-24.37	peak	H	1.5	329
2390.000	44.20	-9.2	35.00	54	-19.00	AVG	H	1.5	261
2400.000	59.87	-9.39	50.48	74	-23.52	peak	H	1.5	324
2400.000	46.01	-9.39	36.62	54	-17.38	AVG	H	1.5	351
2390.000	58.83	-9.2	49.63	74	-24.37	peak	V	1.5	282
2390.000	44.62	-9.2	35.42	54	-18.58	AVG	V	1.5	185
2400.000	59.58	-9.39	50.19	74	-23.81	peak	V	1.5	95
2400.000	46.14	-9.39	36.75	54	-17.25	AVG	V	1.5	71

Worse case mode:		802.11b(1Mbps)		Test channel:		Highest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
2483.500	57.51	-9.29	48.22	74	-25.78	peak	H	1.5	315
2483.500	44.05	-9.29	34.76	54	-19.24	AVG	H	1.5	105
2483.500	57.96	-9.29	48.67	74	-25.33	peak	V	1.5	168
2483.500	46.32	-9.29	37.03	54	-16.97	AVG	V	1.5	24

Worse case mode:		802.11g(6Mbps)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
2390.000	59.21	-9.2	50.01	74	-23.99	peak	H	1.5	256
2390.000	44.79	-9.2	35.59	54	-18.41	AVG	H	1.5	186
2400.000	60.08	-9.39	50.69	74	-23.31	peak	H	1.5	157
2400.000	46.52	-9.39	37.13	54	-16.87	AVG	H	1.5	311
2390.000	58.52	-9.2	49.32	74	-24.68	peak	V	1.5	251
2390.000	44.59	-9.2	35.39	54	-18.61	AVG	V	1.5	123
2400.000	59.61	-9.39	50.22	74	-23.78	peak	V	1.5	170
2400.000	46.44	-9.39	37.05	54	-16.95	AVG	V	1.5	246

Worse case mode:		802.11g(6Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
2483.500	57.60	-9.29	48.31	74	-25.69	peak	H	1.5	359
2483.500	44.40	-9.29	35.11	54	-18.89	AVG	H	1.5	318
2483.500	57.60	-9.29	48.31	74	-25.69	peak	V	1.5	118
2483.500	46.08	-9.29	36.79	54	-17.21	AVG	V	1.5	184

ANT1+ANT2:

Worse case mode:		802.11n(HT20)(13Mbps)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
2390.000	58.68	-9.2	49.48	74	-24.52	peak	H	1.5	62
2390.000	44.27	-9.2	35.07	54	-18.93	AVG	H	1.5	97
2400.000	59.63	-9.39	50.24	74	-23.76	peak	H	1.5	294
2400.000	46.92	-9.39	37.53	54	-16.47	AVG	H	1.5	105
2390.000	58.25	-9.2	49.05	74	-24.95	peak	V	1.5	241
2390.000	44.03	-9.2	34.83	54	-19.17	AVG	V	1.5	220
2400.000	60.03	-9.39	50.64	74	-23.36	peak	V	1.5	360
2400.000	46.15	-9.39	36.76	54	-17.24	AVG	V	1.5	358

Worse case mode:		802.11n(HT20)(13Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
2483.500	58.28	-9.29	48.99	74	-25.01	peak	H	1.5	147
2483.500	44.02	-9.29	34.73	54	-19.27	AVG	H	1.5	119
2483.500	57.77	-9.29	48.48	74	-25.52	peak	V	1.5	181
2483.500	45.67	-9.29	36.38	54	-17.62	AVG	V	1.5	209

Worse case mode:		802.11n(HT40)(27Mbps)		Test channel:		Lowest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
2390.000	58.71	-9.2	49.51	74	-24.49	peak	H	1.5	323
2390.000	44.97	-9.2	35.77	54	-18.23	AVG	H	1.5	191
2400.000	59.90	-9.39	50.51	74	-23.49	peak	H	1.5	123
2400.000	46.69	-9.39	37.30	54	-16.70	AVG	H	1.5	183
2390.000	58.46	-9.2	49.26	74	-24.74	peak	V	1.5	304
2390.000	44.69	-9.2	35.49	54	-18.51	AVG	V	1.5	291
2400.000	59.26	-9.39	49.87	74	-24.13	peak	V	1.5	304
2400.000	46.41	-9.39	37.02	54	-16.98	AVG	V	1.5	34

Worse case mode:		802.11n(HT40)(27Mbps)		Test channel:		Highest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
2483.500	58.30	-9.29	49.01	74	-24.99	peak	H	1.5	253
2483.500	44.25	-9.29	34.96	54	-19.04	AVG	H	1.5	279
2483.500	58.20	-9.29	48.91	74	-25.09	peak	V	1.5	226
2483.500	45.75	-9.29	36.46	54	-17.54	AVG	V	1.5	219

Worse case mode:		802.11ax(HE20)(17.2Mbps)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
2390.000	58.56	-9.2	49.36	74	-24.64	peak	H	1.5	146
2390.000	44.20	-9.2	35.00	54	-19.00	AVG	H	1.5	318
2400.000	59.30	-9.39	49.91	74	-24.09	peak	H	1.5	27
2400.000	46.75	-9.39	37.36	54	-16.64	AVG	H	1.5	336
2390.000	58.60	-9.2	49.40	74	-24.60	peak	V	1.5	161
2390.000	44.48	-9.2	35.28	54	-18.72	AVG	V	1.5	311
2400.000	59.29	-9.39	49.90	74	-24.10	peak	V	1.5	36
2400.000	46.95	-9.39	37.56	54	-16.44	AVG	V	1.5	140

Worse case mode:		802.11ax(HE20)(17.2Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
2483.500	58.04	-9.29	48.75	74	-25.25	peak	H	1.5	68
2483.500	43.91	-9.29	34.62	54	-19.38	AVG	H	1.5	47
2483.500	58.12	-9.29	48.83	74	-25.17	peak	V	1.5	289
2483.500	45.97	-9.29	36.68	54	-17.32	AVG	V	1.5	183

Worse case mode:		802.11ax(HE40)(34.4Mbps)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V	(m)	(Degree)
2390.000	58.92	-9.2	49.72	74	-24.28	peak	H	1.5	46
2390.000	44.52	-9.2	35.32	54	-18.68	AVG	H	1.5	152
2400.000	59.32	-9.39	49.93	74	-24.07	peak	H	1.5	324
2400.000	46.71	-9.39	37.32	54	-16.68	AVG	H	1.5	129
2390.000	58.73	-9.2	49.53	74	-24.47	peak	V	1.5	72
2390.000	44.32	-9.2	35.12	54	-18.88	AVG	V	1.5	207
2400.000	59.56	-9.39	50.17	74	-23.83	peak	V	1.5	264
2400.000	46.11	-9.39	36.72	54	-17.28	AVG	V	1.5	311

Worse case mode:		802.11ax(HE40)(34.4Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V	(m)	(Degree)
2483.500	57.55	-9.29	48.26	74	-25.74	peak	H	1.5	81
2483.500	43.84	-9.29	34.55	54	-19.45	AVG	H	1.5	37
2483.500	57.84	-9.29	48.55	74	-25.45	peak	V	1.5	333
2483.500	45.84	-9.29	36.55	54	-17.45	AVG	V	1.5	132

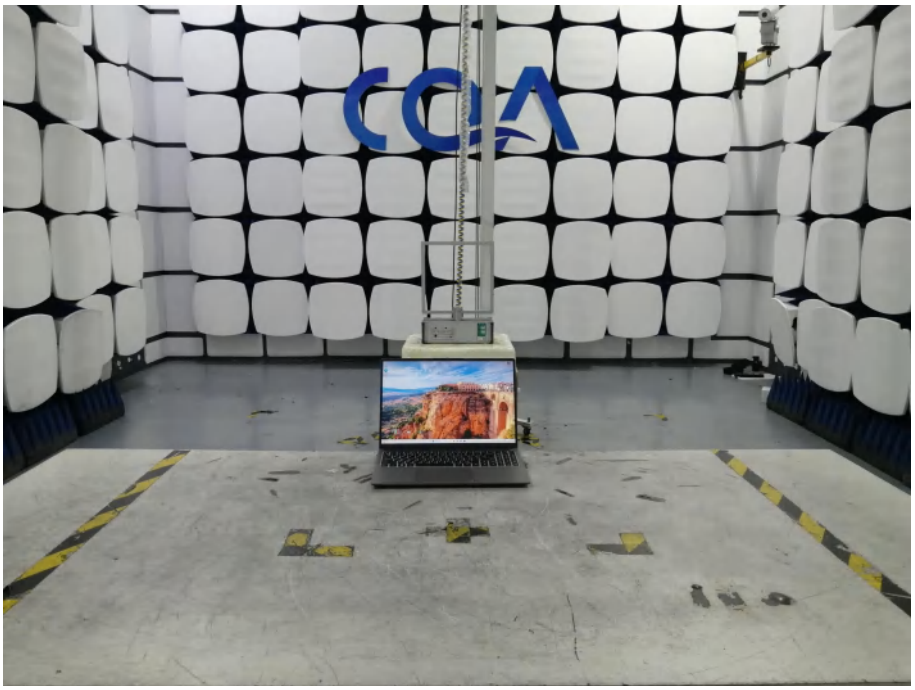
Note:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

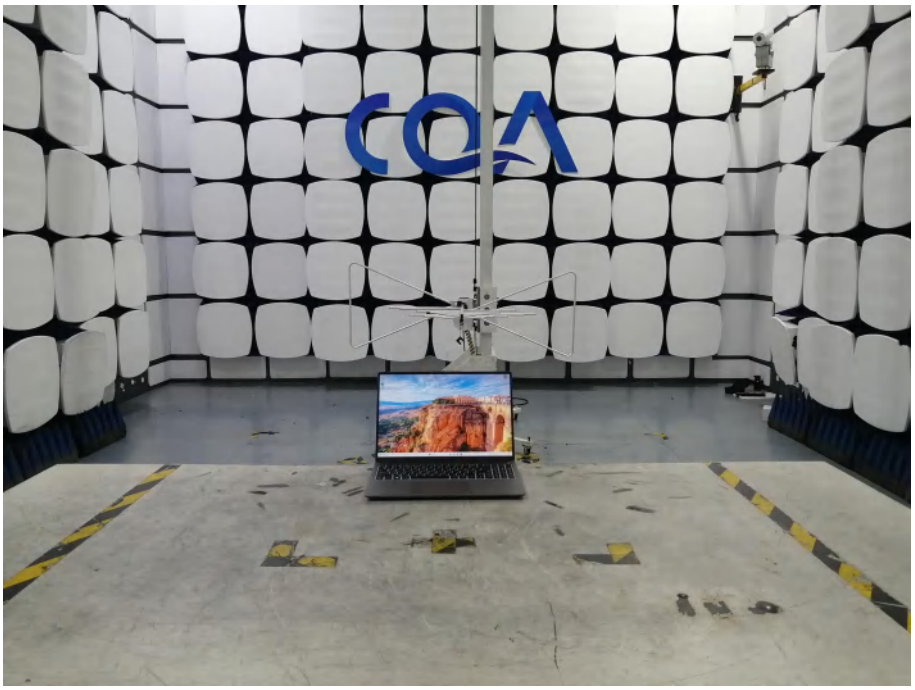
6 Photographs - EUT Test Setup

6.1 Radiated Spurious Emission

9kHz~30MHz:



30MHz~1GHz:



Above 1GHz:

6.2 Conducted Emission

7 Photographs - EUT Constructional Details

Refer to PHOTOGRAPHS OF EUT for CQASZ20251102679E-01.

*** END OF REPORT ***