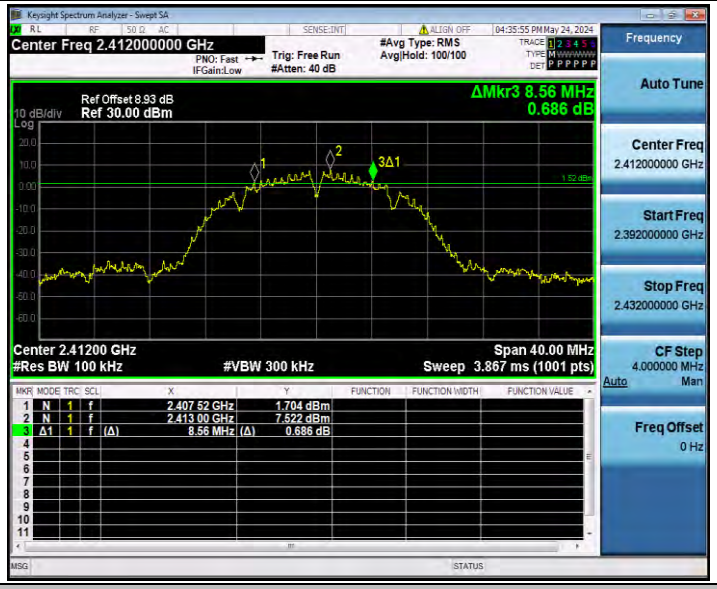
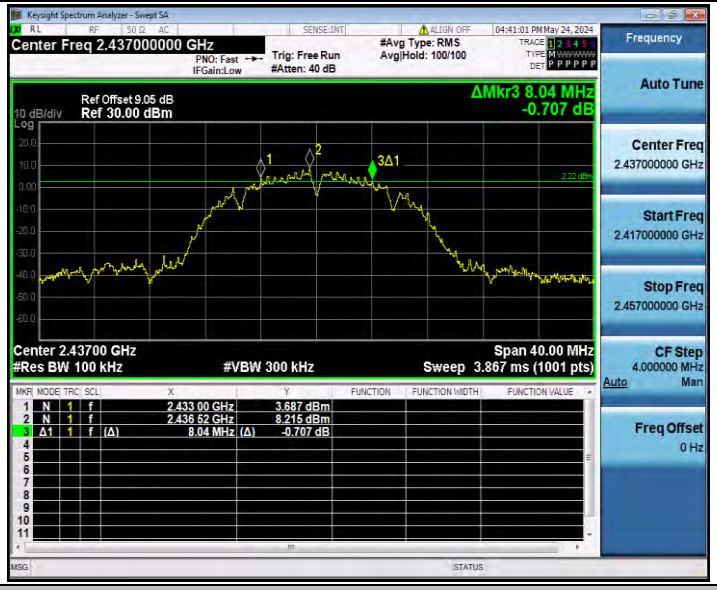
Case No. : CTA24061300103	
Ambient Condition: 23 ℃, 55 %RH,	
Test Date: 2024.5.24	**Test Engineer:** Evan ouyang

Appendix C.1: DTS Bandwidth

Test Result

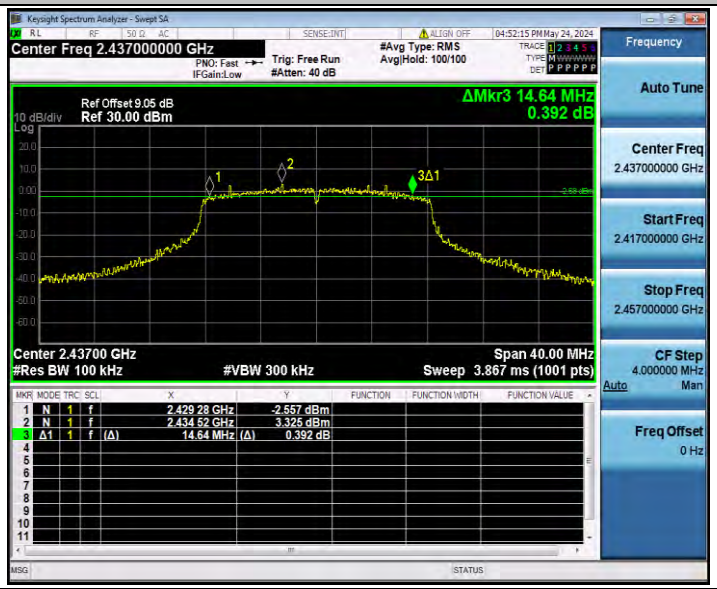
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.560	2407.520	2416.080	0.5	PASS
		2437	8.040	2433.000	2441.040	0.5	PASS
		2462	8.040	2458.000	2466.040	0.5	PASS
11G	Ant1	2412	14.400	2404.520	2418.920	0.5	PASS
		2437	14.640	2429.280	2443.920	0.5	PASS
		2462	15.000	2454.520	2469.520	0.5	PASS
11N20SISO	Ant1	2412	15.080	2404.520	2419.600	0.5	PASS
		2437	15.120	2429.480	2444.600	0.5	PASS
		2462	15.000	2454.520	2469.520	0.5	PASS

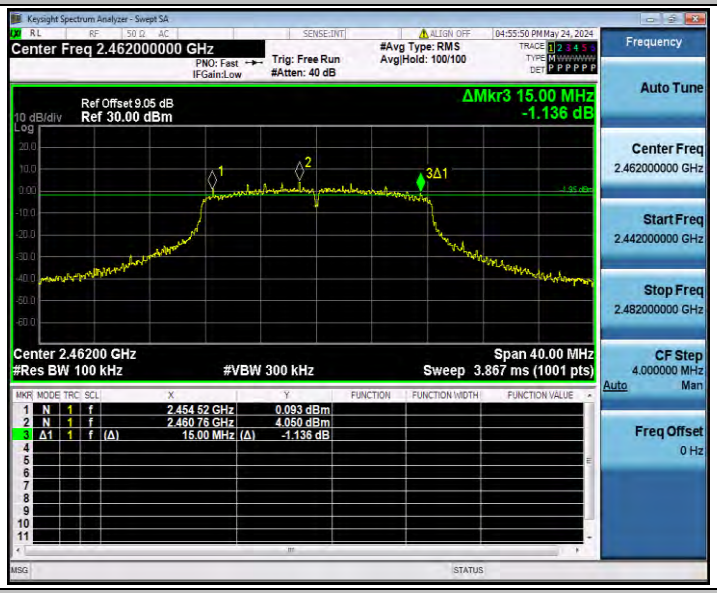
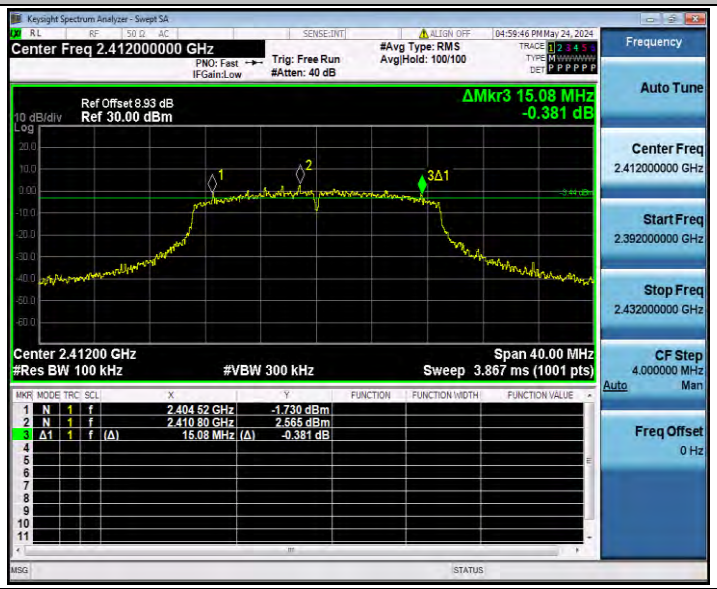
Test Graphs

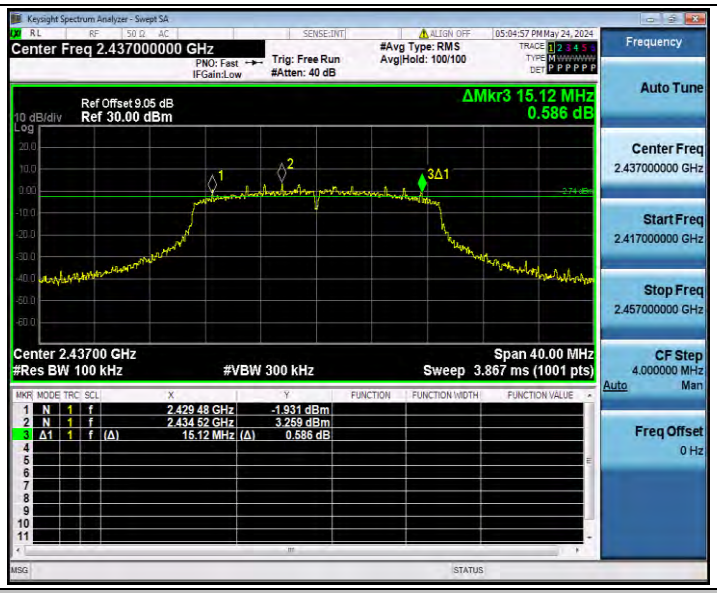
11B_Ant1_2412

11B_Ant1_2437

11B_Ant1_2462

11G_Ant1_2412

11G_Ant1_2437



11G_Ant1_2462

11N20SISO_Ant1_2412

11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

Appendix C.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	14.009	2405.0636	2419.0726
		2437	13.959	2430.0312	2443.9902
		2462	13.925	2455.0395	2468.9645
11G	Ant1	2412	16.680	2403.7310	2420.4110
		2437	16.576	2428.7374	2445.3134
		2462	16.619	2453.7066	2470.3256
11N20SISO	Ant1	2412	17.725	2403.2055	2420.9305
		2437	17.676	2428.1827	2445.8587
		2462	17.653	2453.1802	2470.8332

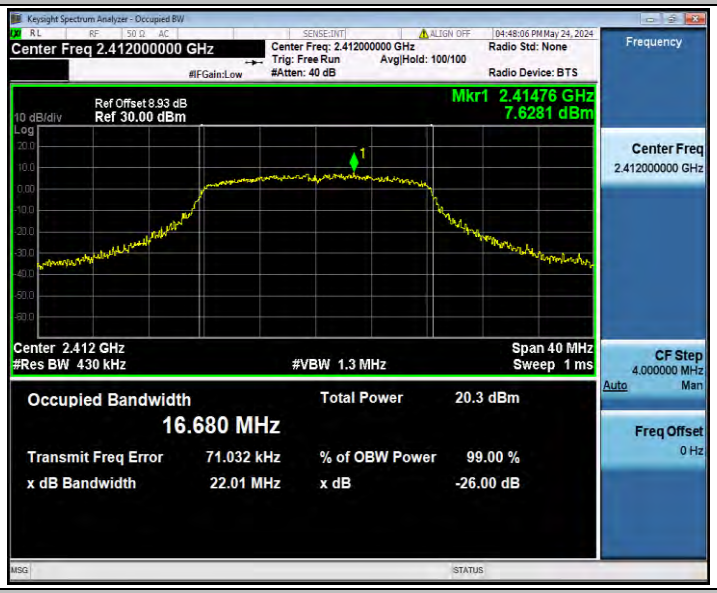
Test Graphs

11B_Ant1_2412

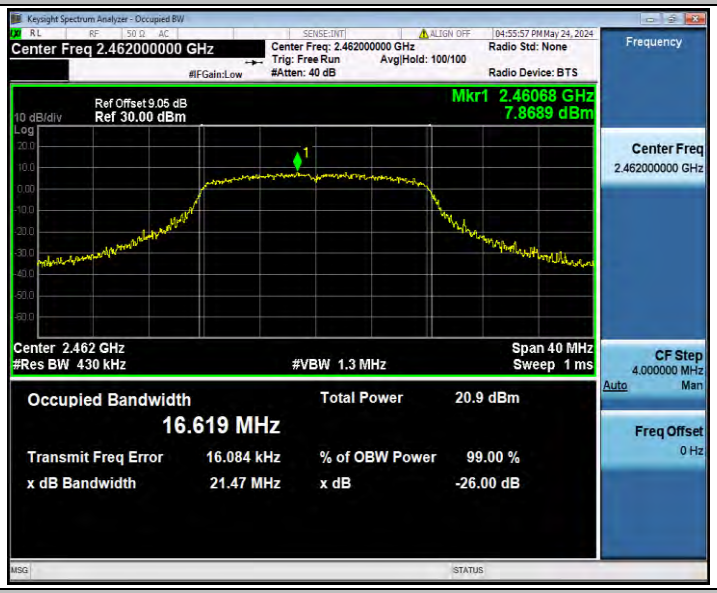
11B_Ant1_2437

11B_Ant1_2462

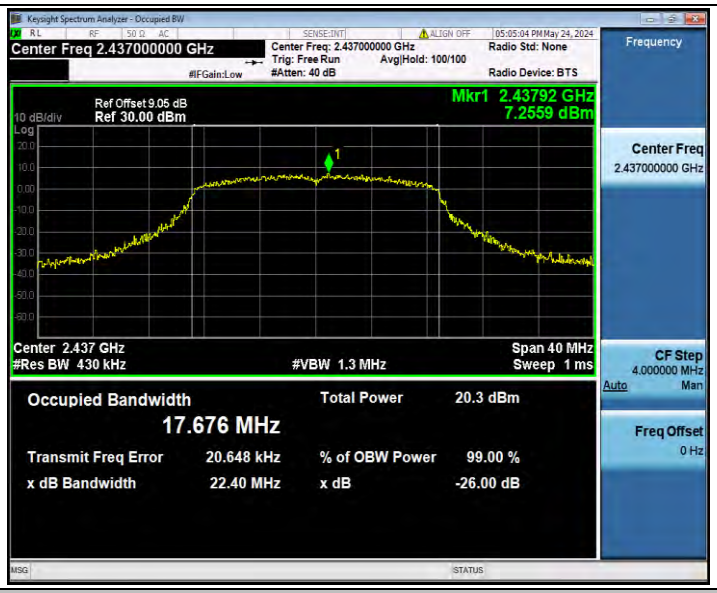
11G_Ant1_2412



11G_Ant1_2437

11G_Ant1_2462

11N20SISO_Ant1_2412

11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

Appendix C.3: Maximum conducted output power

Test Result -CHP

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	18.90	≤30.00	PASS
		2437	19.64	≤30.00	PASS
		2462	19.64	≤30.00	PASS
11G	Ant1	2412	21.39	≤30.00	PASS
		2437	21.99	≤30.00	PASS
		2462	22.09	≤30.00	PASS
11N20SISO	Ant1	2412	20.84	≤30.00	PASS
		2437	21.40	≤30.00	PASS
		2462	21.52	≤30.00	PASS

Note：

1.The Duty Cycle Factor and RBW Factor is compensated in the data.

Appendix C.4: Maximum power spectral density

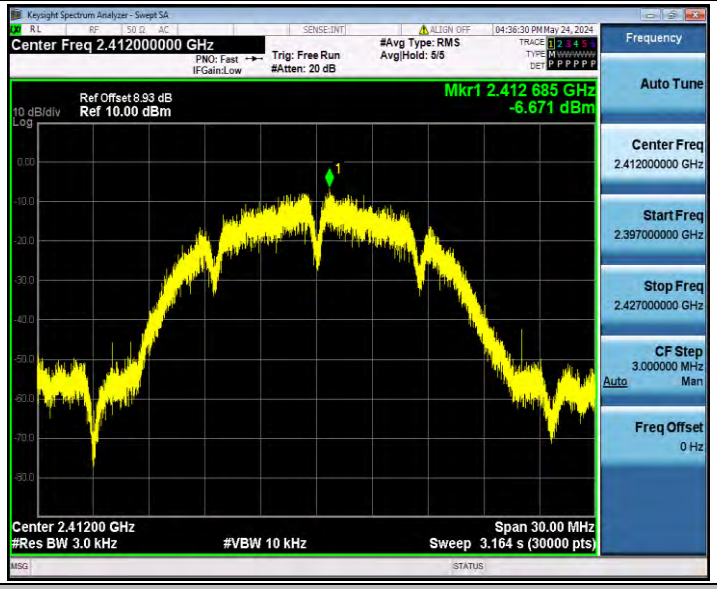
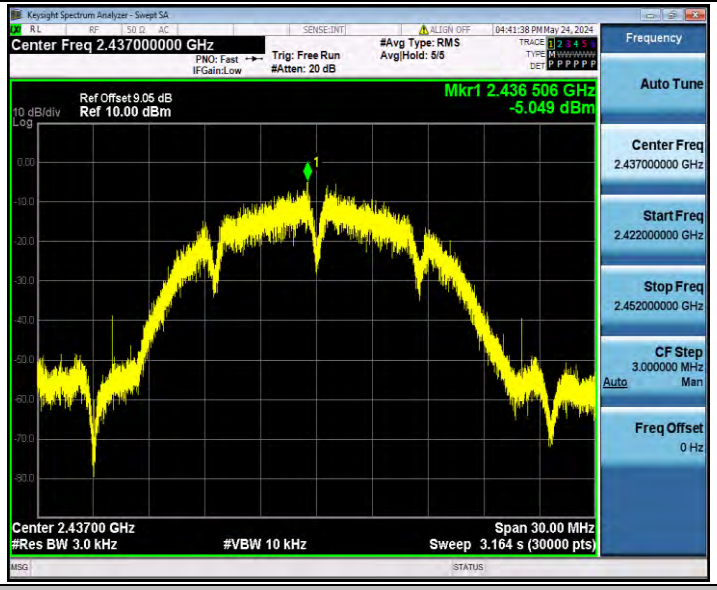
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.67	≤8.00	PASS
		2437	-5.05	≤8.00	PASS
		2462	-6.49	≤8.00	PASS
11G	Ant1	2412	-10.91	≤8.00	PASS
		2437	-10.40	≤8.00	PASS
		2462	-9.36	≤8.00	PASS
11N20SISO	Ant1	2412	-11.27	≤8.00	PASS
		2437	-11.41	≤8.00	PASS
		2462	-11.26	≤8.00	PASS

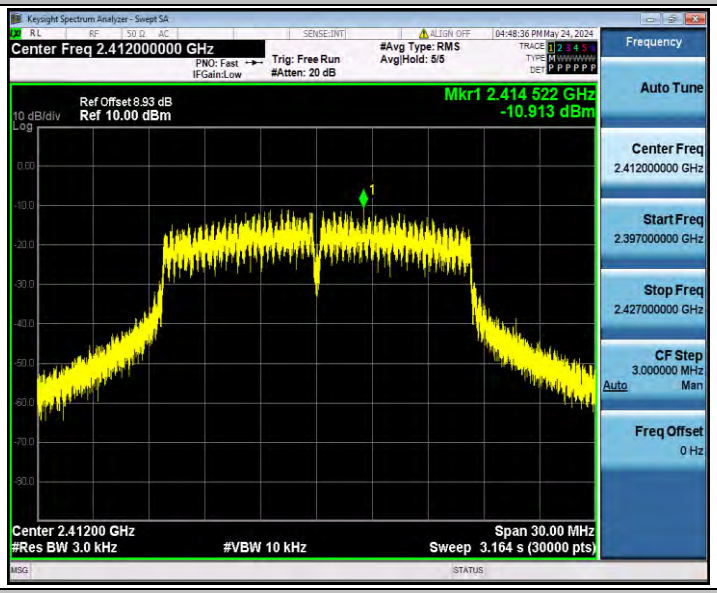
Note：

1. The Duty Cycle Factor and RBW Factor is compensated in the graph.

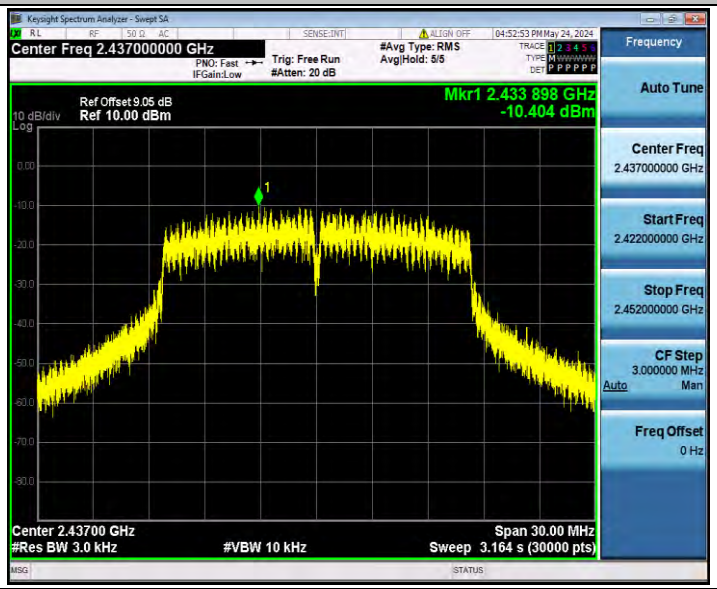
Test Graphs

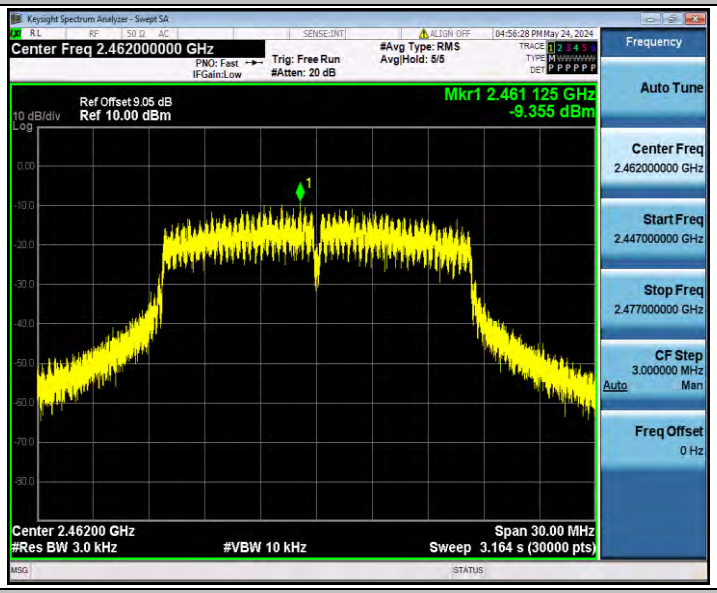
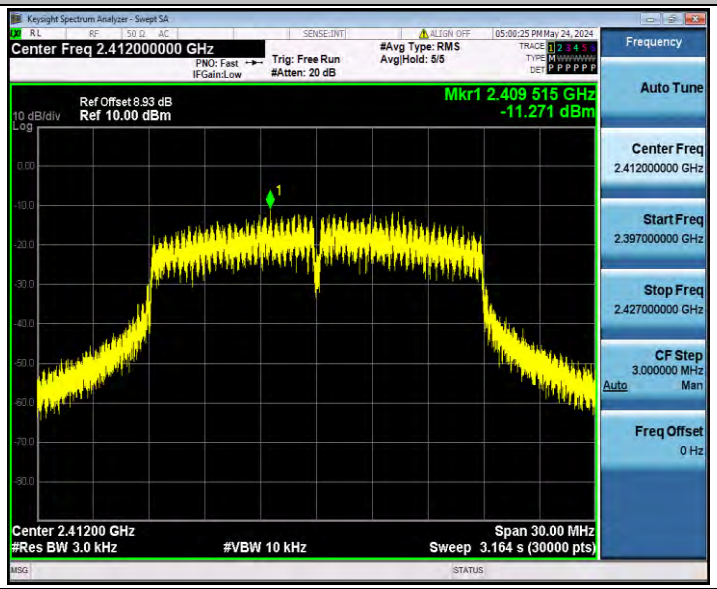
11B_Ant1_2412

11B_Ant1_2437

11B_Ant1_2462

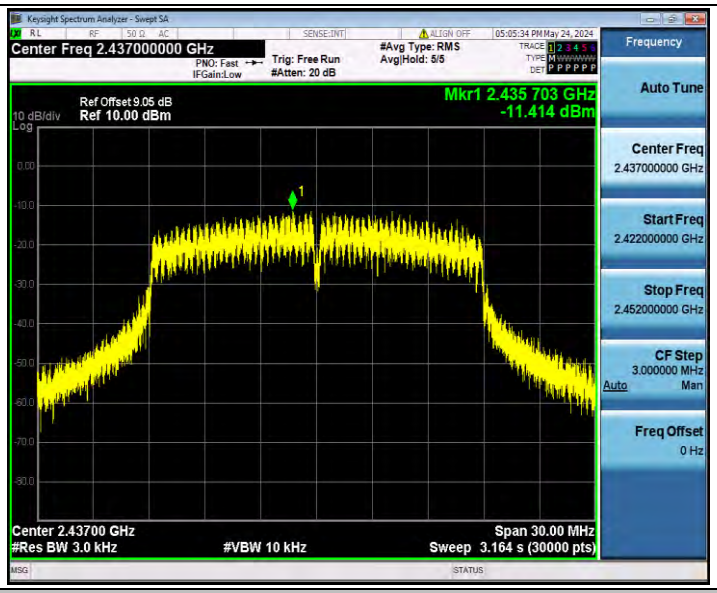
11G_Ant1_2412



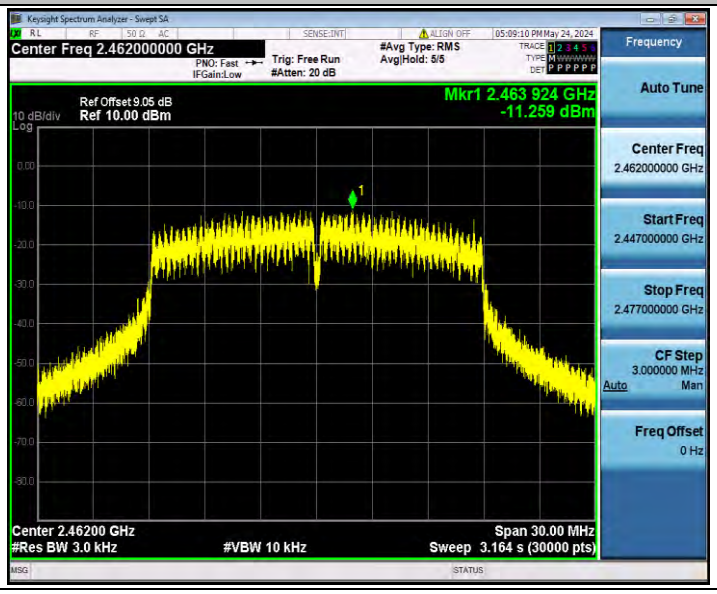
11G_Ant1_2437



11G_Ant1_2462

11N20SISO_Ant1_2412

11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

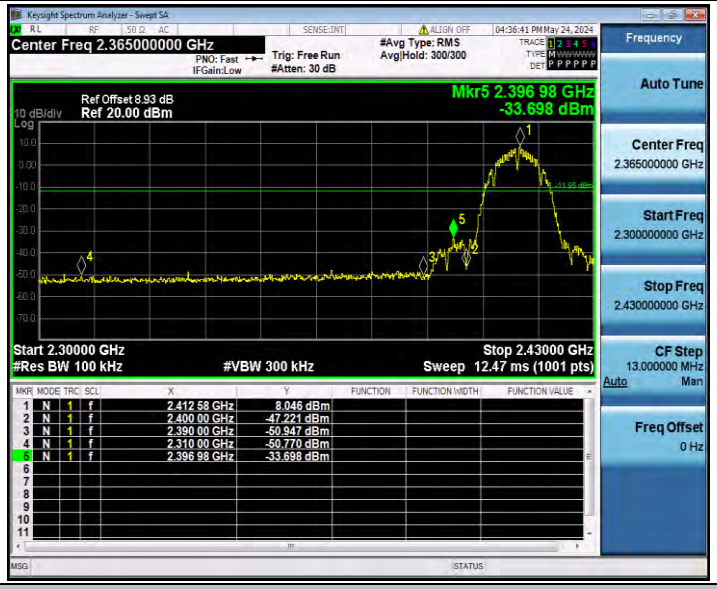
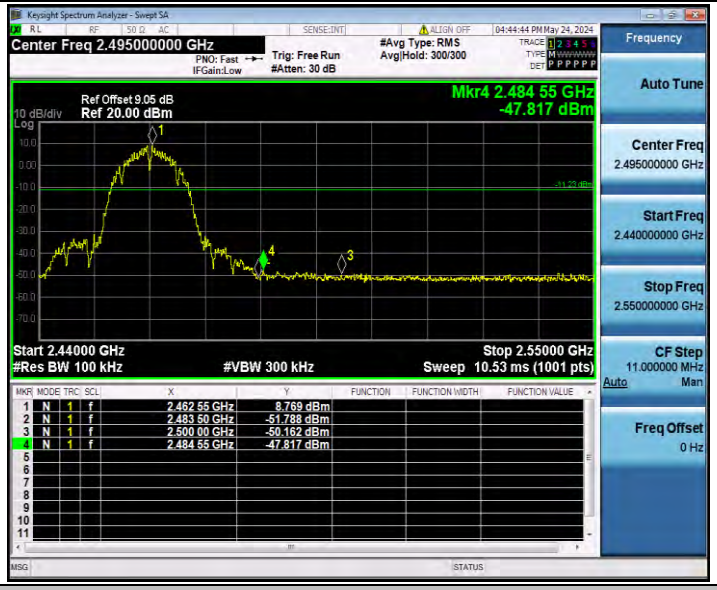


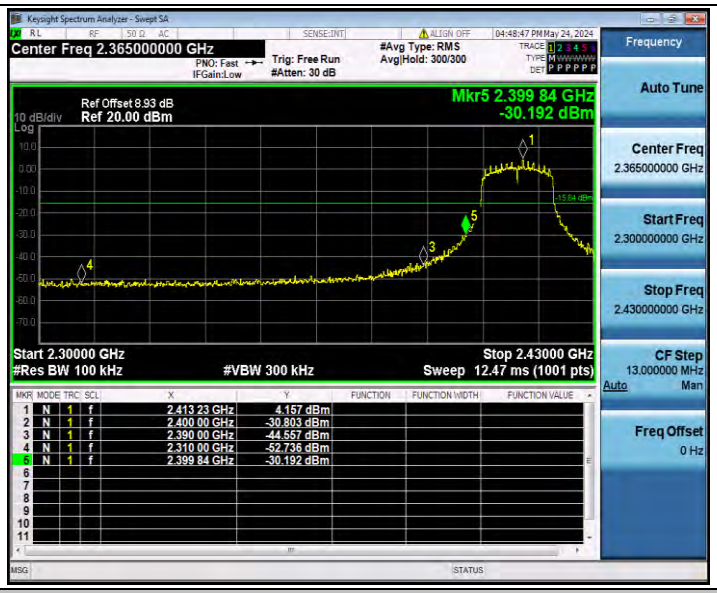
Appendix C.5: Band edge measurements

Test Result

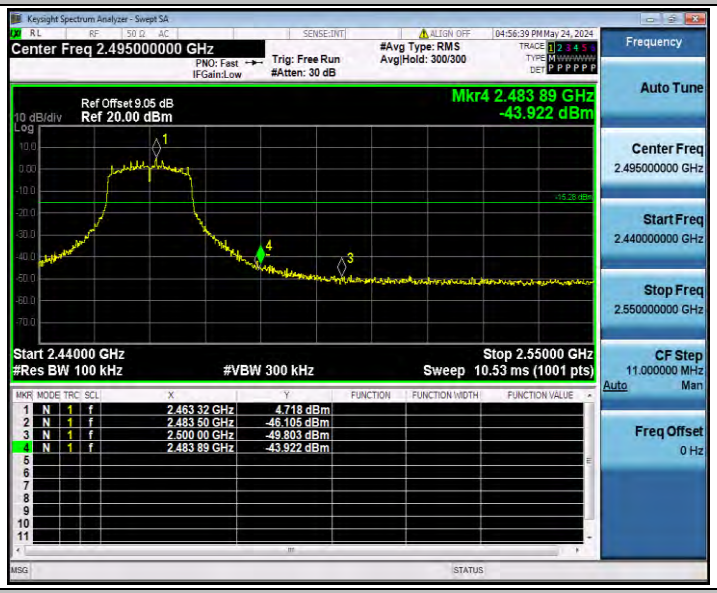
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.05	-33.7	≤-11.95	PASS
		High	2462	8.77	-47.82	≤-11.23	PASS
11G	Ant1	Low	2412	4.16	-30.19	≤-15.84	PASS
		High	2462	4.72	-43.92	≤-15.28	PASS
11N20SISO	Ant1	Low	2412	3.61	-31.2	≤-16.39	PASS
		High	2462	4.39	-44.42	≤-15.61	PASS

Test Graphs

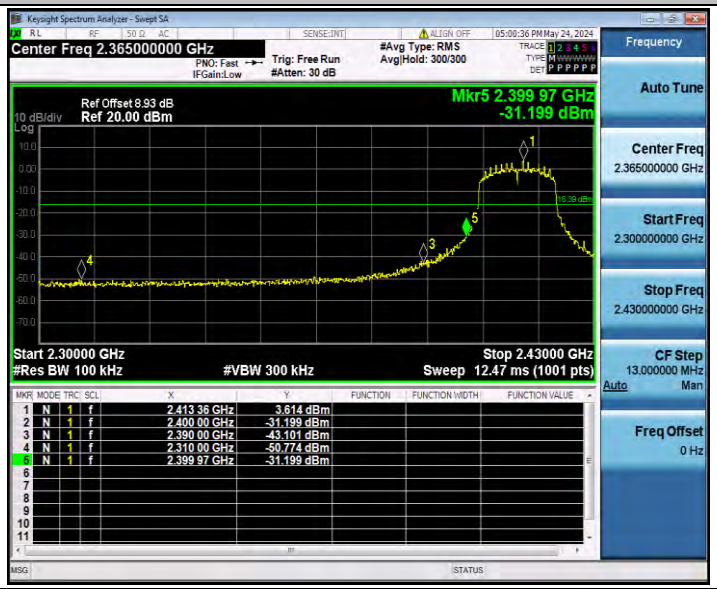
11B_Ant1_Low_2412

11B_Ant1_High_2462

11G_Ant1_Low_2412

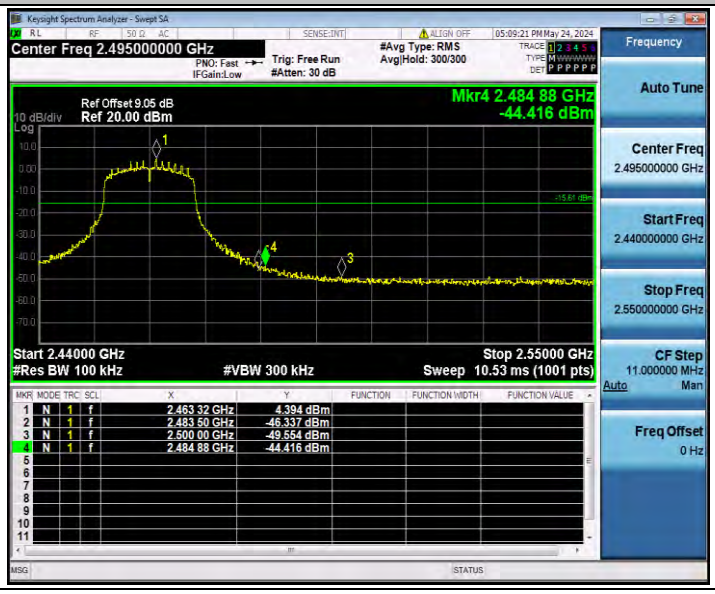


11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462


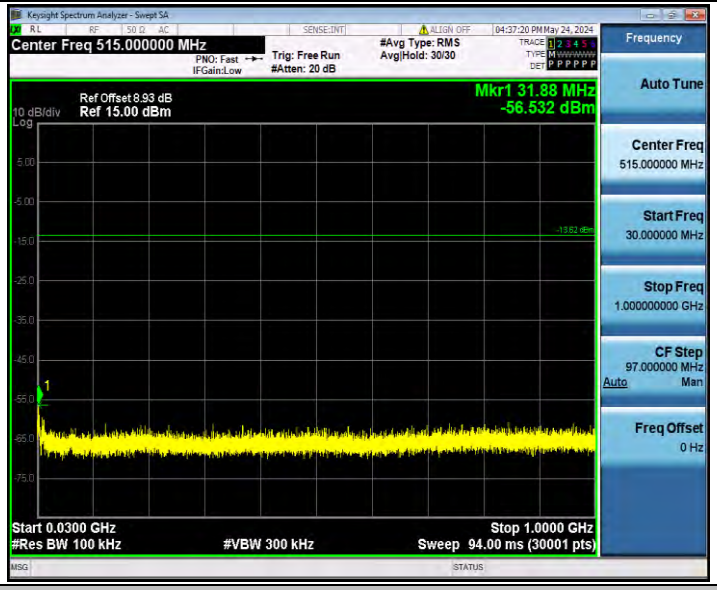
Appendix C.6: Conducted Spurious Emission

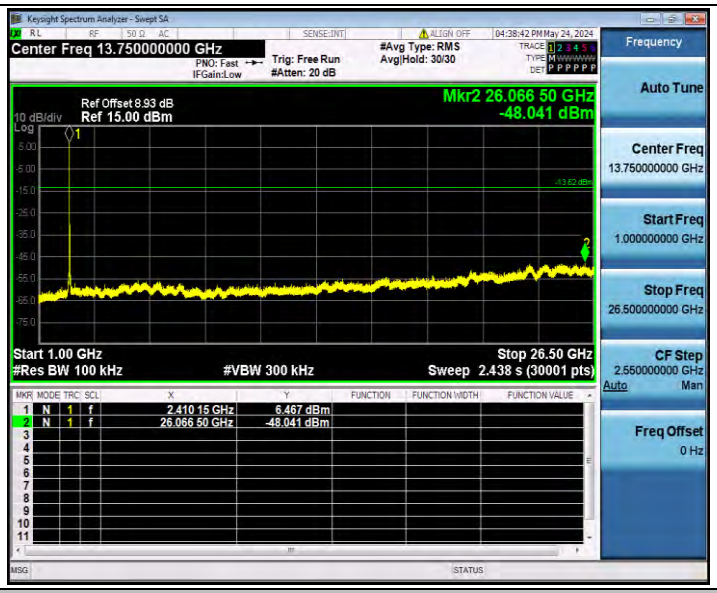
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.38	6.38	---	PASS
			30~1000	6.38	-56.53	≤-13.62	PASS
			1000~26500	6.38	-48.04	≤-13.62	PASS
		2437	Reference	7.31	7.31	---	PASS
			30~1000	7.31	-60.47	≤-12.69	PASS
			1000~26500	7.31	-47.63	≤-12.69	PASS
		2462	Reference	7.78	7.78	---	PASS
			30~1000	7.78	-60.73	≤-12.22	PASS
			1000~26500	7.78	-48.02	≤-12.22	PASS
11G	Ant1	2412	Reference	3.39	3.39	---	PASS
			30~1000	3.39	-60.44	≤-16.61	PASS
			1000~26500	3.39	-47.9	≤-16.61	PASS
		2437	Reference	2.40	2.40	---	PASS
			30~1000	2.40	-58.83	≤-17.6	PASS
			1000~26500	2.40	-47.29	≤-17.6	PASS
		2462	Reference	2.80	2.80	---	PASS
			30~1000	2.80	-60.31	≤-17.2	PASS
			1000~26500	2.80	-47.62	≤-17.2	PASS
11N20SISO	Ant1	2412	Reference	0.67	0.67	---	PASS
			30~1000	0.67	-61.15	≤-19.33	PASS
			1000~26500	0.67	-47.38	≤-19.33	PASS
		2437	Reference	2.80	2.80	---	PASS
			30~1000	2.80	-60.74	≤-17.2	PASS
			1000~26500	2.80	-47.82	≤-17.2	PASS
		2462	Reference	0.46	0.46	---	PASS
			30~1000	0.46	-60.15	≤-19.54	PASS
			1000~26500	0.46	-47.62	≤-19.54	PASS

Test Graphs

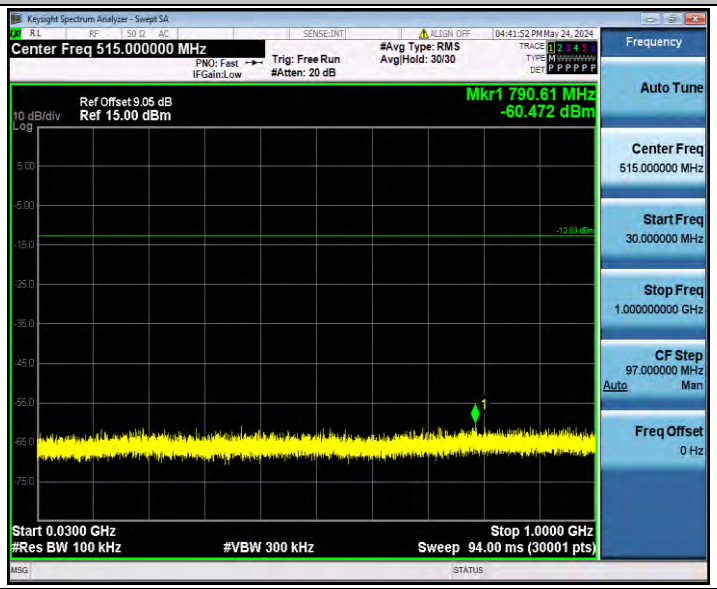
11B_Ant1_2412_0~Reference

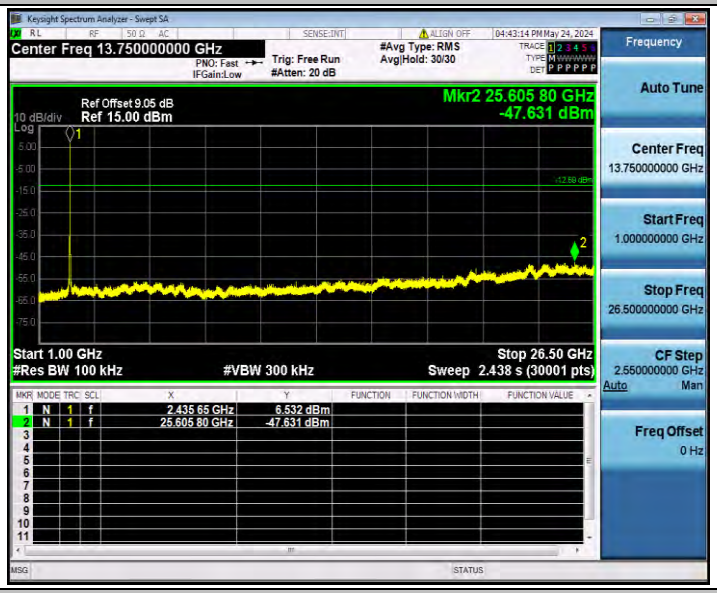
11B_Ant1_2412_30~1000

11B_Ant1_2412_1000~26500



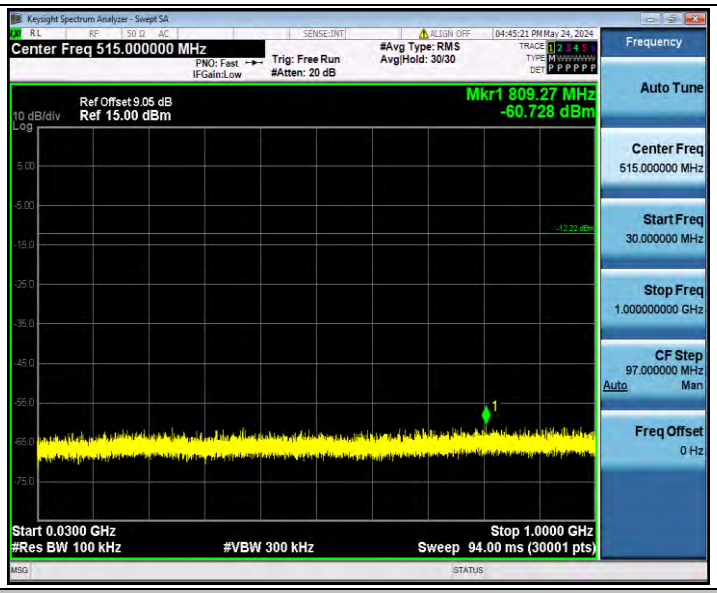
11B_Ant1_2437_0~Reference

11B_Ant1_2437_30~1000

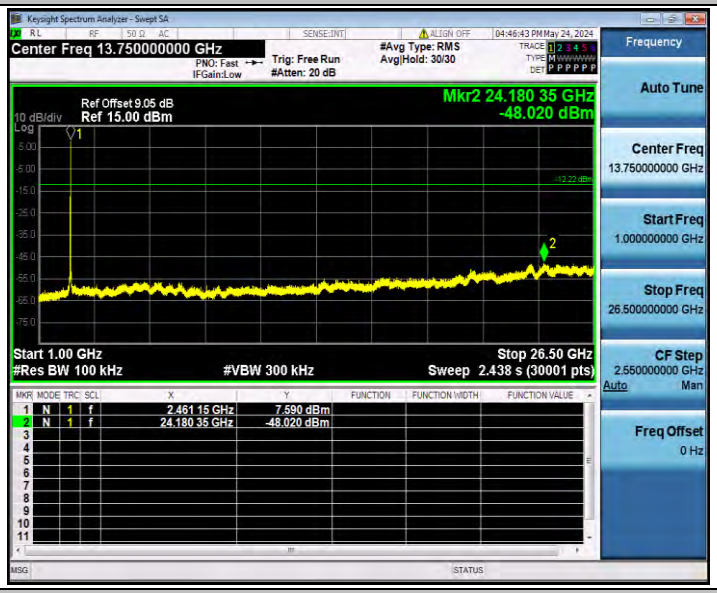


11B_Ant1_2437_1000~26500

11B_Ant1_2462_0~Reference

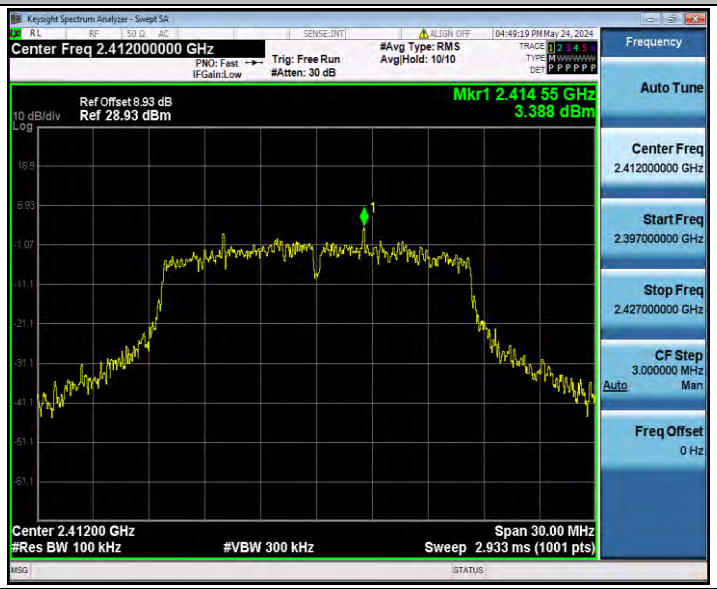
11B_Ant1_2462_30~1000



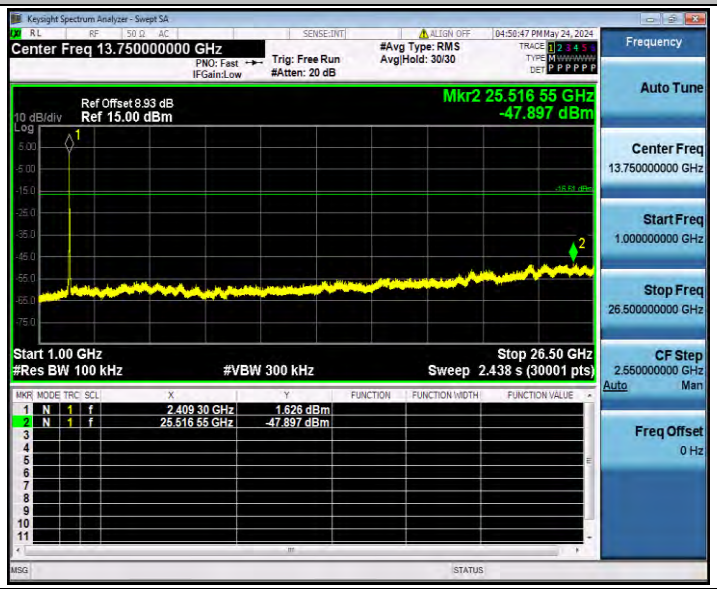
11B_Ant1_2462_1000~26500



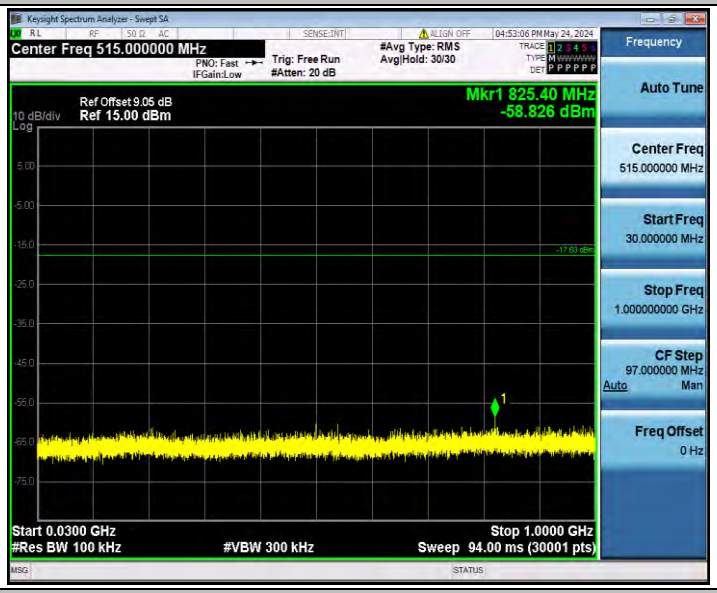
11G_Ant1_2412_0~Reference



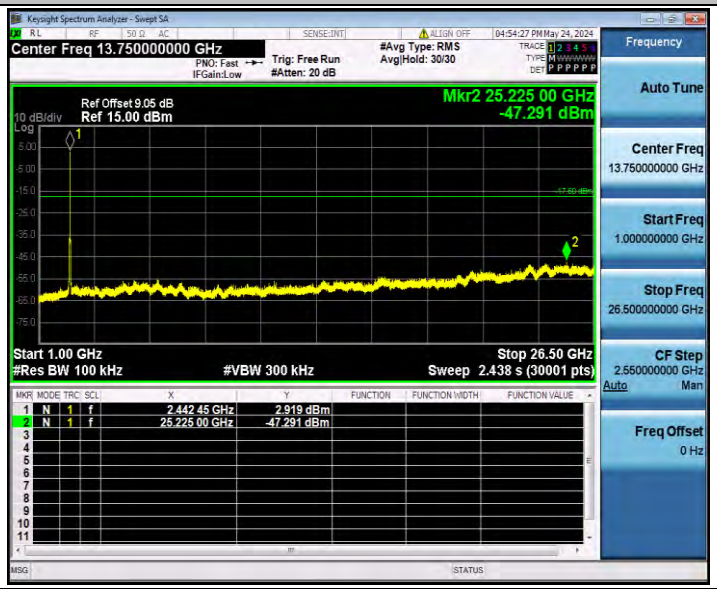
11G_Ant1_2412_30~1000

11G_Ant1_2412_1000~26500

11G_Ant1_2437_0~Reference

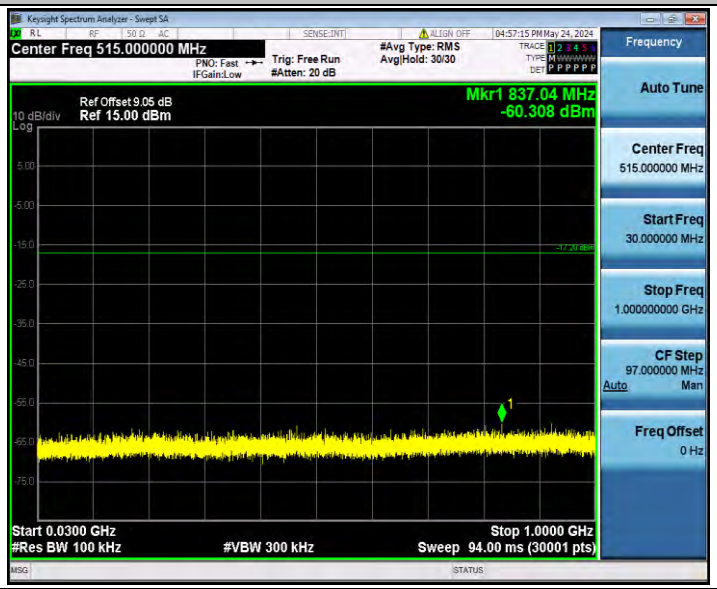
11G_Ant1_2437_30~1000

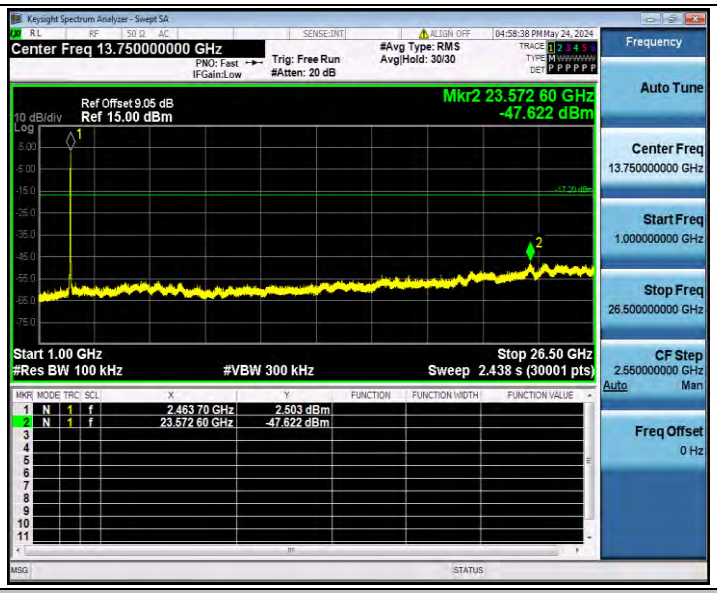


11G_Ant1_2437_1000~26500



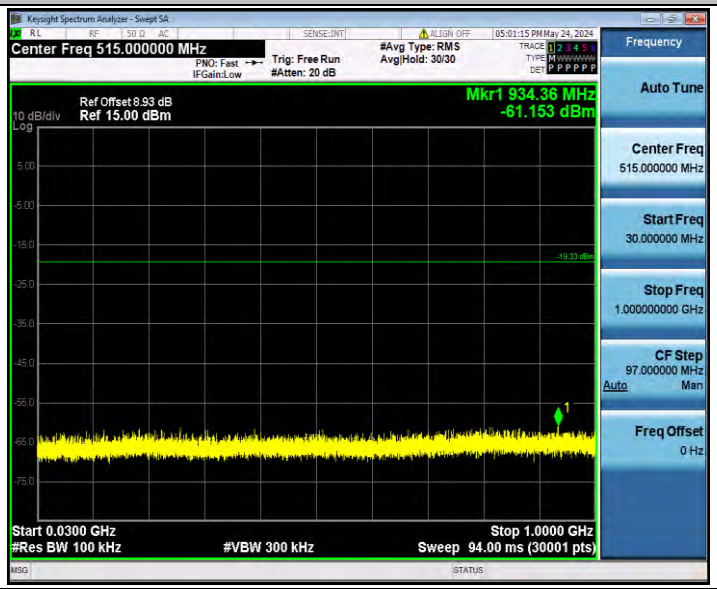
11G_Ant1_2462_0~Reference

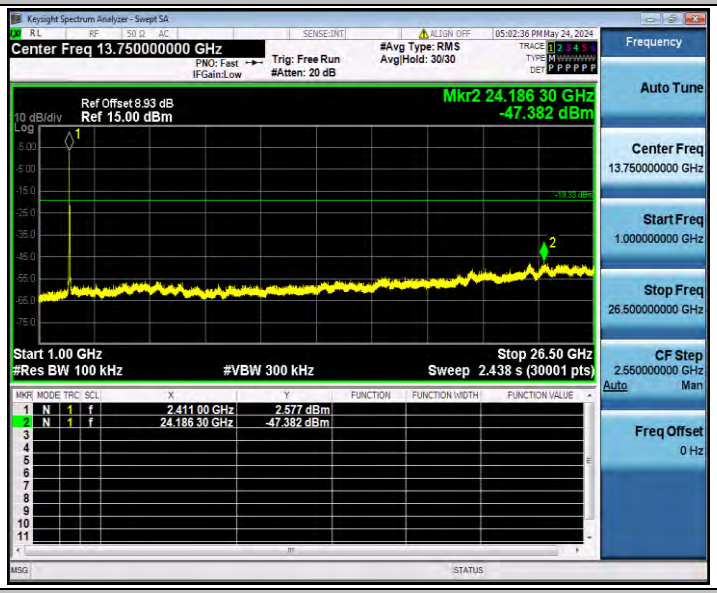
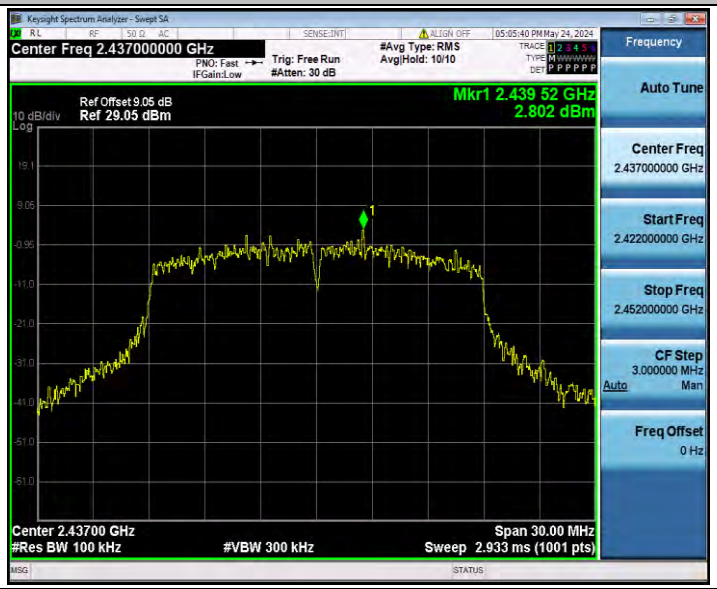
11G_Ant1_2462_30~1000

11G_Ant1_2462_1000~26500

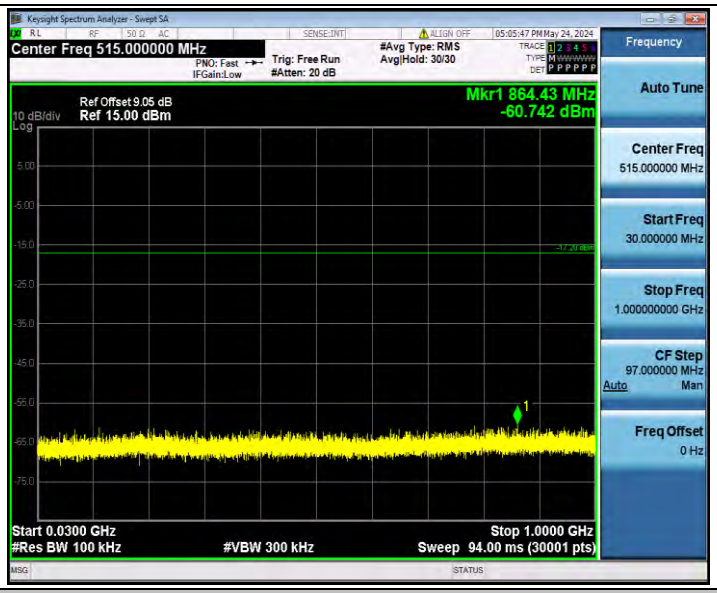


11N20SISO_Ant1_2412_0~Reference

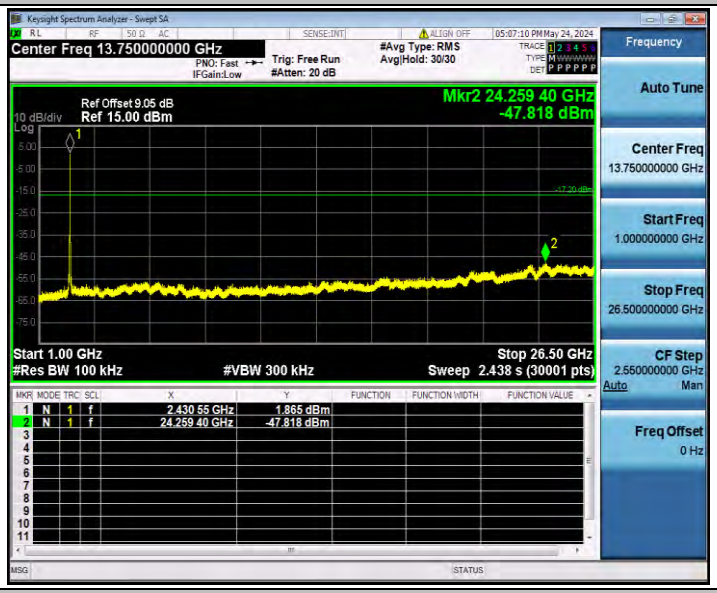
11N20SISO_Ant1_2412_30~1000



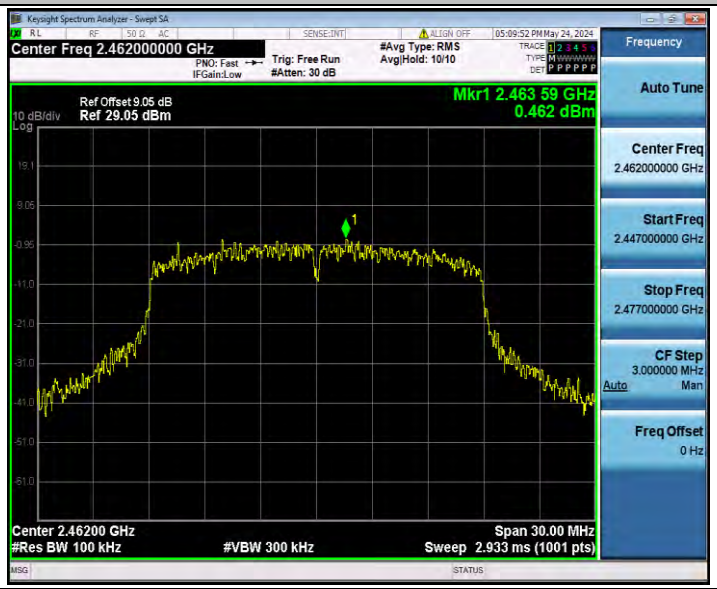
11N20SISO_Ant1_2412_1000~26500

11N20SISO_Ant1_2437_0~Reference

11N20SISO_Ant1_2437_30~1000

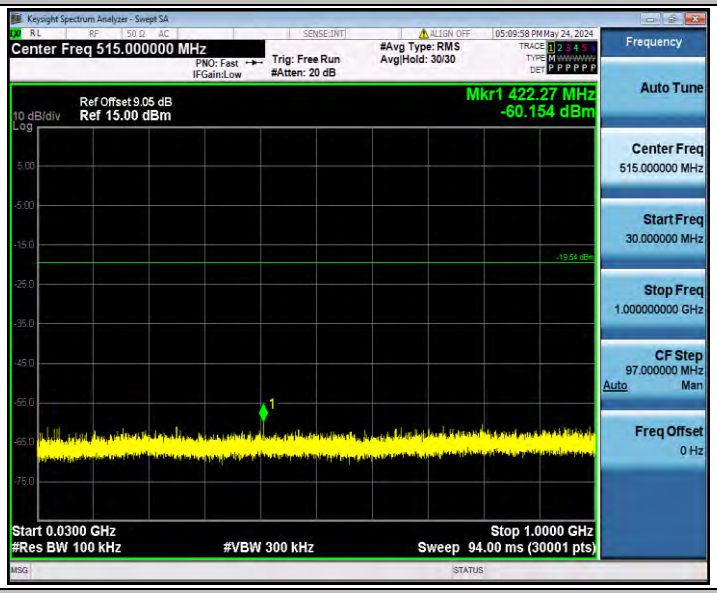
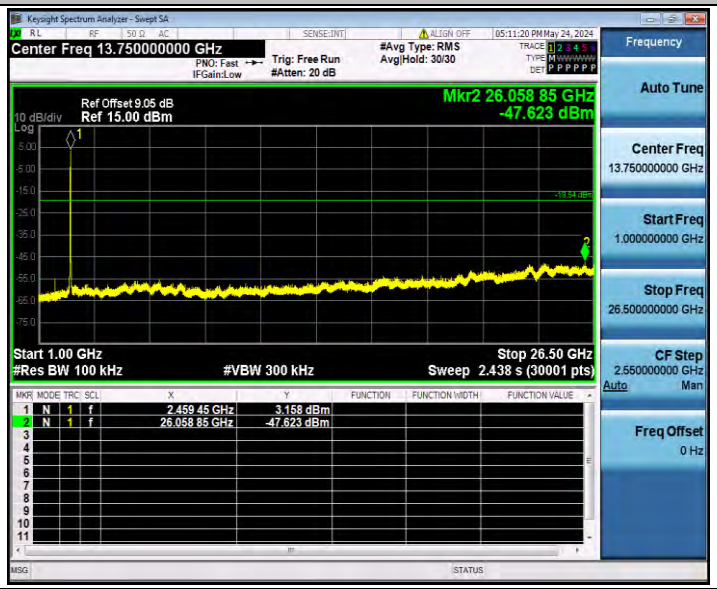


11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000

11N20SISO_Ant1_2462_1000~26500


Appendix C.7: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.47	≤-41.20	45.73	≤54	PASS
				AV	2386.970	-46.61	≤-41.20	48.59	≤54	PASS
				AV	2390.000	-47.51	≤-41.20	47.69	≤54	PASS
				Peak	2310.000	-48.52	≤-21.20	46.68	≤74	PASS
				Peak	2374.360	-39.18	≤-21.20	56.02	≤74	PASS
				Peak	2390.000	-44.19	≤-21.20	51.01	≤74	PASS
		High	2462	AV	2483.500	-47.33	≤-41.20	47.87	≤54	PASS
				AV	2484.550	-46.1	≤-41.20	49.10	≤54	PASS
				AV	2500.000	-48.17	≤-41.20	47.03	≤54	PASS
				Peak	2483.500	-42.07	≤-21.20	53.13	≤74	PASS
				Peak	2484.330	-39.08	≤-21.20	56.12	≤74	PASS
				Peak	2500.000	-47.52	≤-21.20	47.68	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.51	≤-41.20	45.69	≤54	PASS
				AV	2389.960	-41.55	≤-41.20	53.65	≤54	PASS
				AV	2390.000	-41.55	≤-41.20	53.65	≤54	PASS
				Peak	2310.000	-48.93	≤-21.20	46.27	≤74	PASS
				Peak	2388.790	-36.25	≤-21.20	58.95	≤74	PASS
				Peak	2390.000	-38.7	≤-21.20	56.50	≤74	PASS
		High	2462	AV	2483.500	-41.95	≤-41.20	53.25	≤54	PASS
				AV	2483.560	-42.07	≤-41.20	53.13	≤54	PASS
				AV	2500.000	-47.41	≤-41.20	47.79	≤54	PASS
				Peak	2483.500	-41.96	≤-21.20	53.24	≤74	PASS
				Peak	2487.410	-35.67	≤-21.20	59.53	≤74	PASS
				Peak	2500.000	-45.83	≤-21.20	49.37	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-49.56	≤-41.20	45.64	≤54	PASS
				AV	2389.960	-41.42	≤-41.20	53.78	≤54	PASS
				AV	2390.000	-41.42	≤-41.20	53.78	≤54	PASS
				Peak	2310.000	-45.8	≤-21.20	49.40	≤74	PASS
				Peak	2389.700	-36.24	≤-21.20	58.96	≤74	PASS
				Peak	2390.000	-37.46	≤-21.20	57.74	≤74	PASS
		High	2462	AV	2483.500	-41.75	≤-41.20	53.45	≤54	PASS
				AV	2483.560	-41.81	≤-41.20	53.39	≤54	PASS
				AV	2500.000	-47.53	≤-41.20	47.67	≤54	PASS
				Peak	2483.500	-42.59	≤-21.20	52.61	≤74	PASS
				Peak	2485.210	-36.13	≤-21.20	59.07	≤74	PASS

				Peak	2500.000	-44.93	≤-21.20	50.27	≤74	PASS

Note：

1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

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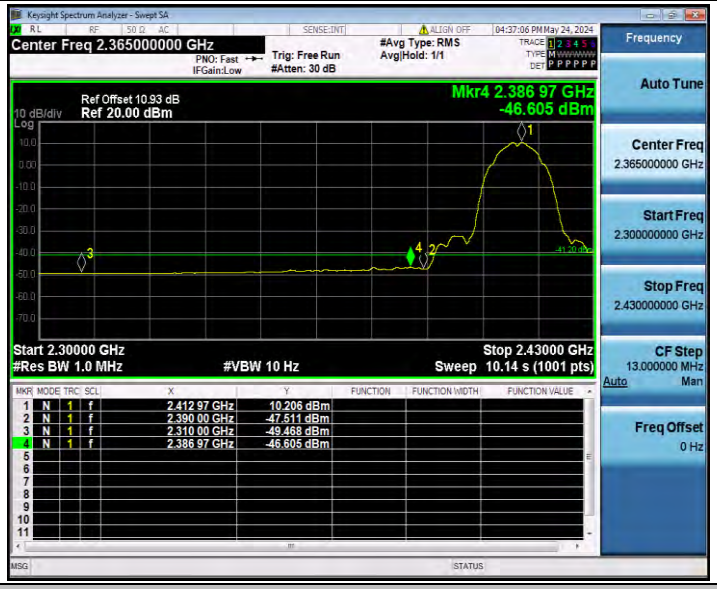
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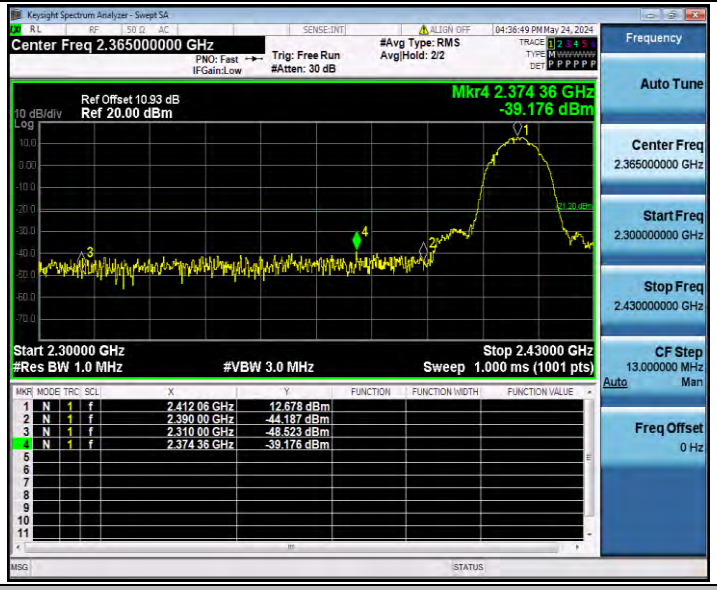
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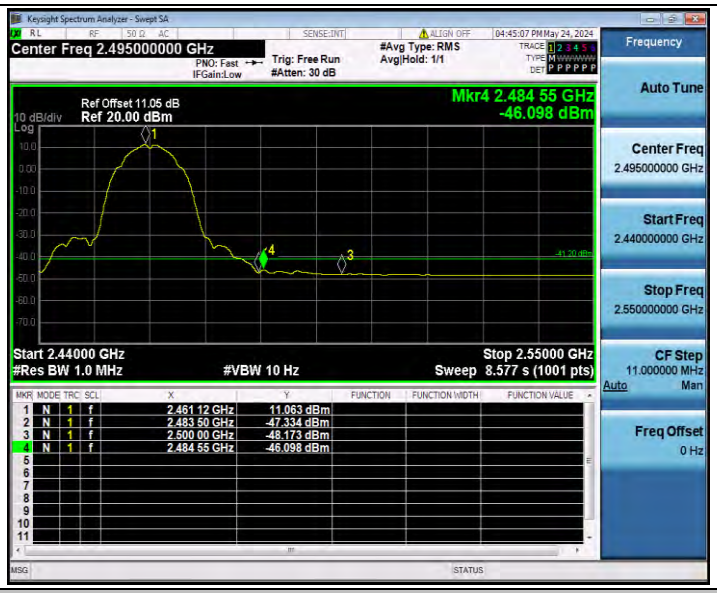

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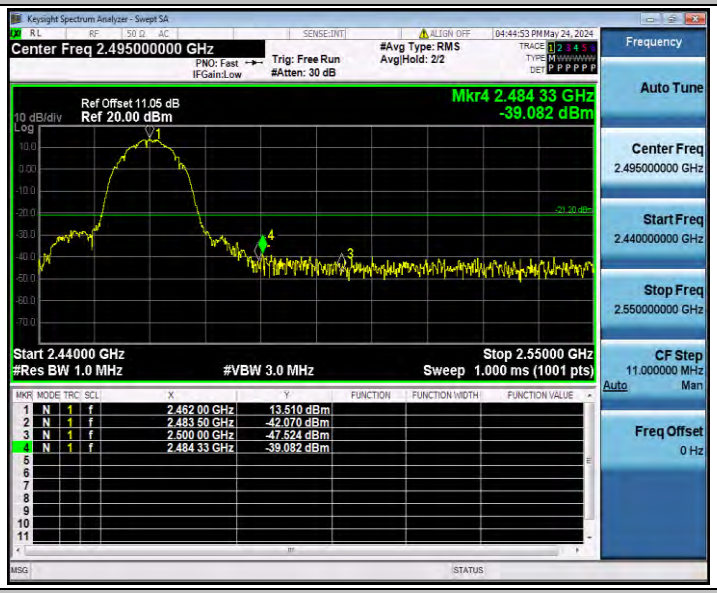

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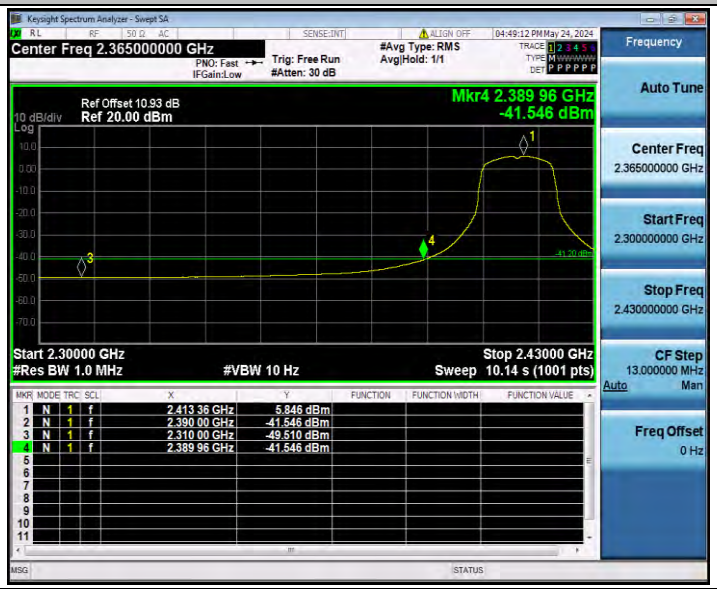

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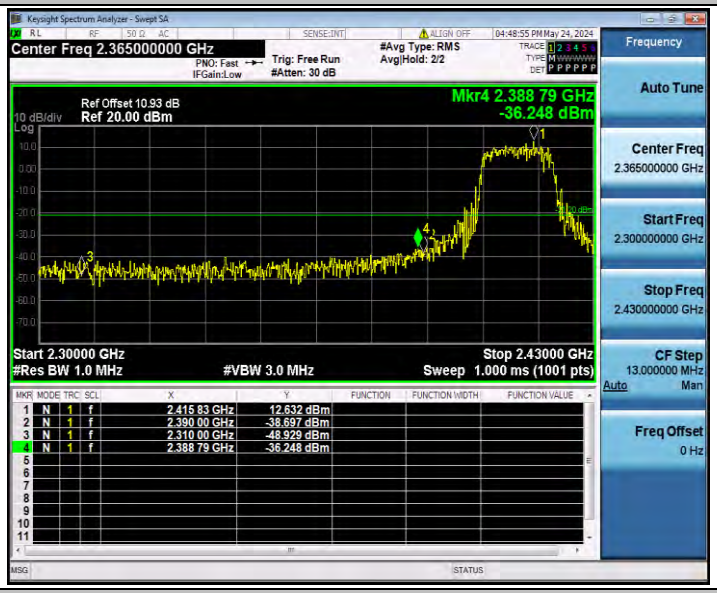

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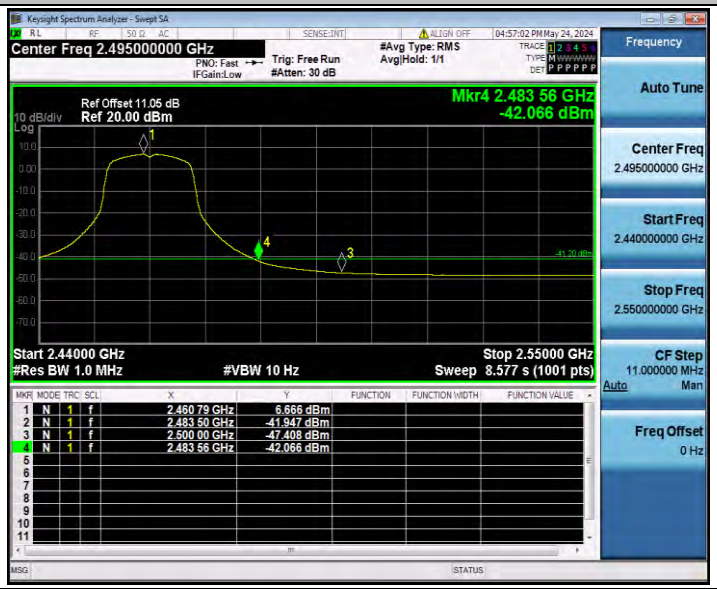

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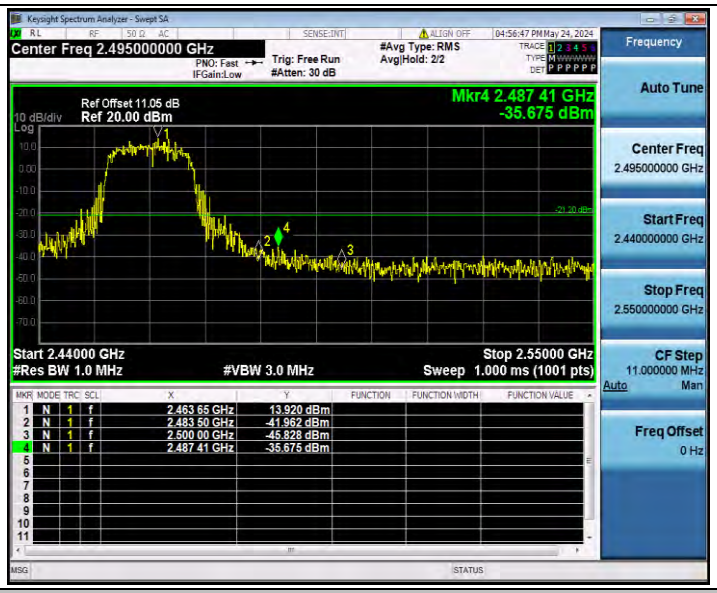

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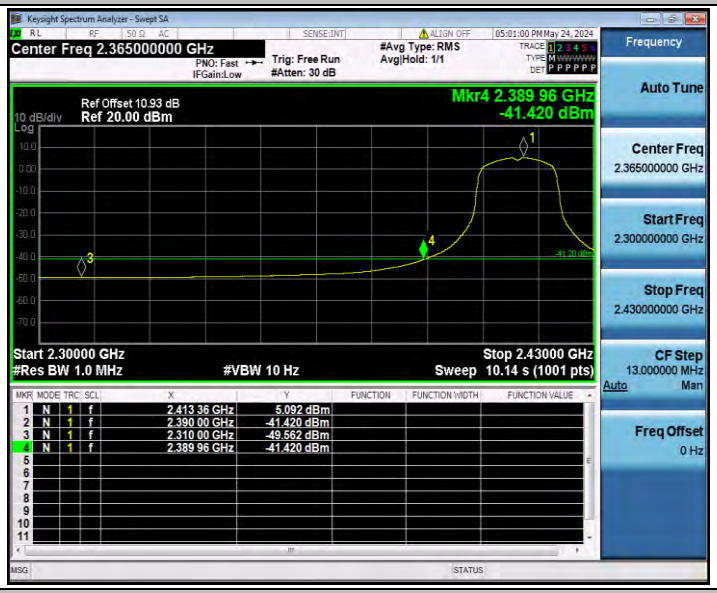

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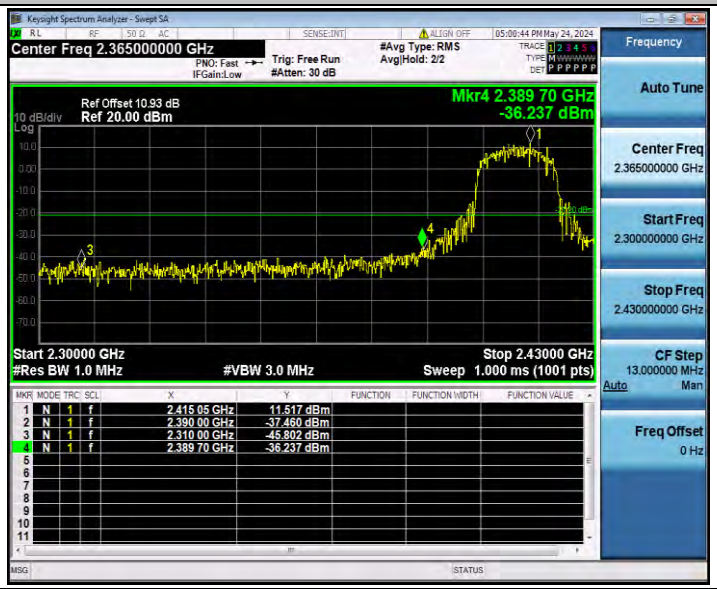

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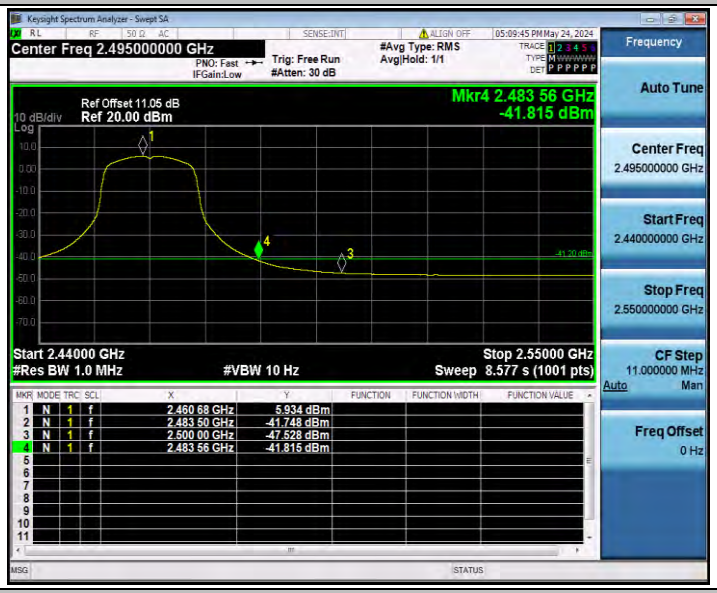
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