Case No. : GTS20240108009-1-1	
Ambient Condition: 22 ℃, 52 %RH,	
Test Date: 2024.3.6	**Test Engineer:** Evan ouyang

Appendix A.1: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.040	2407.960	2416.000	0.5	PASS
		2437	8.080	2432.960	2441.040	0.5	PASS
		2462	8.560	2457.960	2466.520	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.280	2428.840	2445.120	0.5	PASS
		2462	13.840	2455.640	2469.480	0.5	PASS
11N20SISO	Ant1	2412	16.520	2403.840	2420.360	0.5	PASS
		2437	17.280	2428.480	2445.760	0.5	PASS
		2462	15.080	2454.400	2469.480	0.5	PASS

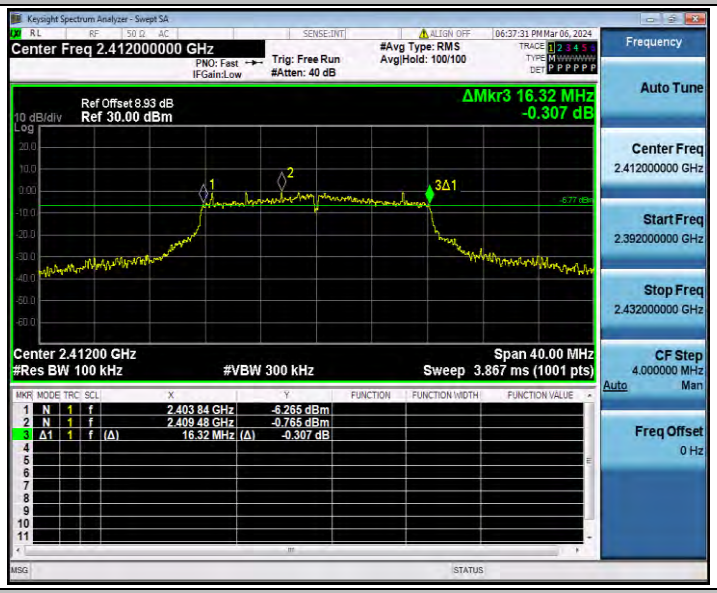
Test Graphs

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 A.2: Occupied Channel Bandwidth

Test Result

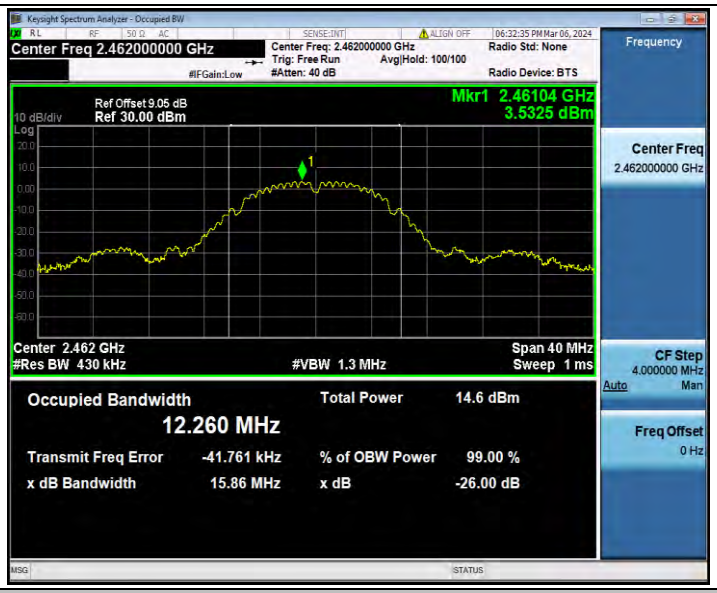
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.193	2405.8871	2418.0801	---	---
		2437	12.182	2430.8860	2443.0680	---	---
		2462	12.260	2455.8282	2468.0882	---	---
11G	Ant1	2412	17.260	2403.4043	2420.6643	---	---
		2437	17.428	2428.3190	2445.7470	---	---
		2462	16.964	2453.4981	2470.4621	---	---
11N20SISO	Ant1	2412	18.421	2402.8141	2421.2351	---	---
		2437	18.330	2427.8578	2446.1878	---	---
		2462	17.998	2452.9622	2470.9602	---	---

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 A.3: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.09	0	0	14.09	≤30.00	PASS
		2437	14.53	0	0	14.53	≤30.00	PASS
		2462	14.69	0	0	14.69	≤30.00	PASS
11G	Ant1	2412	18.46	0	0	18.46	≤30.00	PASS
		2437	18.95	0	0	18.95	≤30.00	PASS
		2462	18.96	0	0	18.96	≤30.00	PASS
11N20SISO	Ant1	2412	18.13	0	0	18.13	≤30.00	PASS
		2437	18.60	0	0	18.60	≤30.00	PASS
		2462	18.61	0	0	18.61	≤30.00	PASS

Note：

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

Appendix A.4: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.38	≤8.00	PASS
		2437	-10.89	≤8.00	PASS
		2462	-11.19	≤8.00	PASS
11G	Ant1	2412	-12.55	≤8.00	PASS
		2437	-11.81	≤8.00	PASS
		2462	-11.01	≤8.00	PASS
11N20SISO	Ant1	2412	-12.96	≤8.00	PASS
		2437	-13.04	≤8.00	PASS
		2462	-11.62	≤8.00	PASS

Note：

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

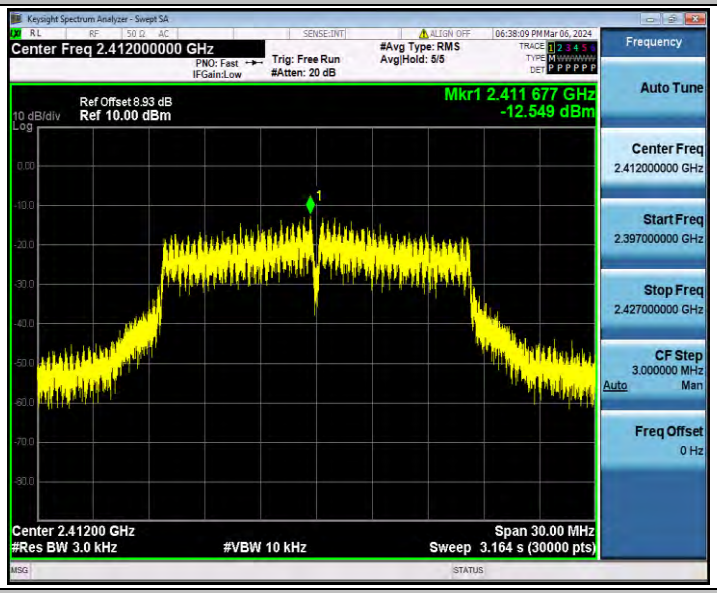
Test Graphs

11B_Ant1_2412

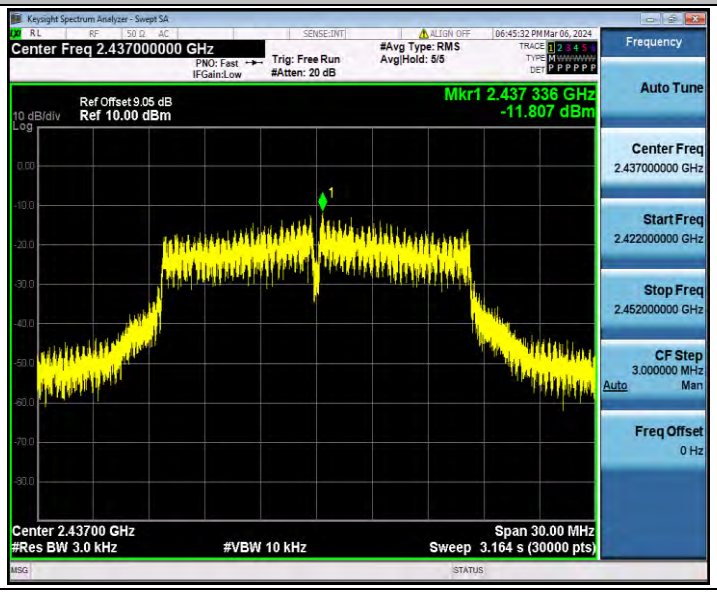
11B_Ant1_2437

11B_Ant1_2462

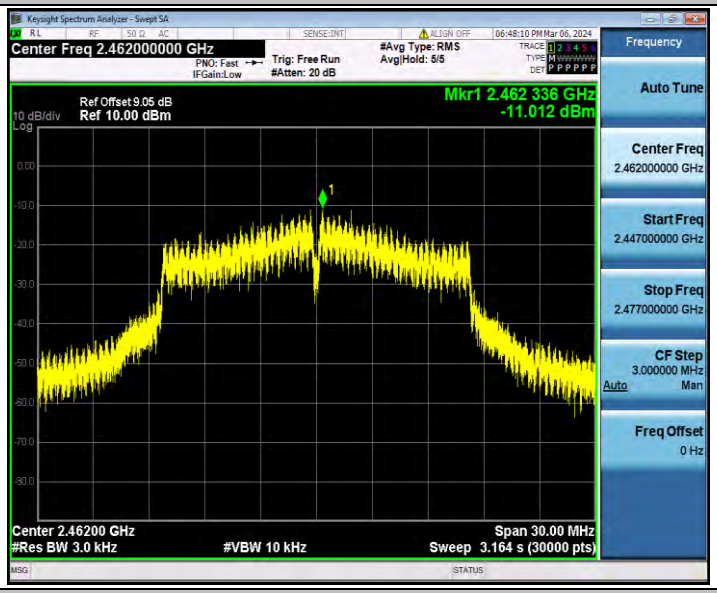
11G_Ant1_2412



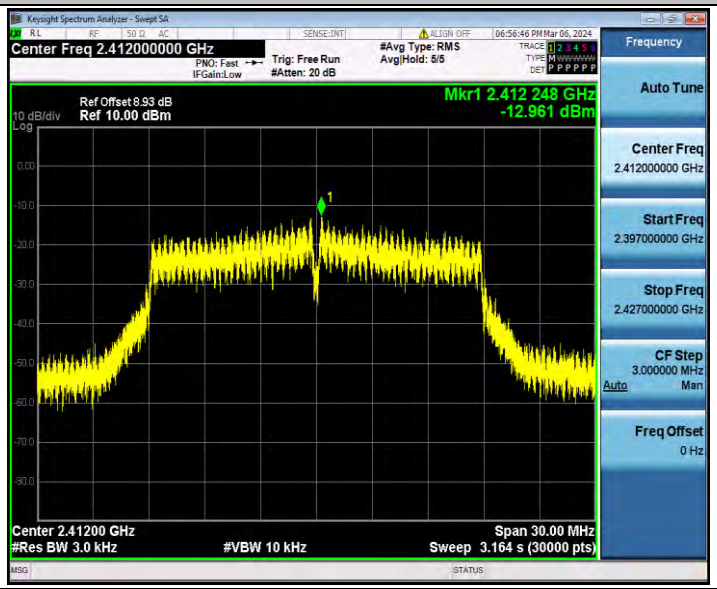
11G_Ant1_2437



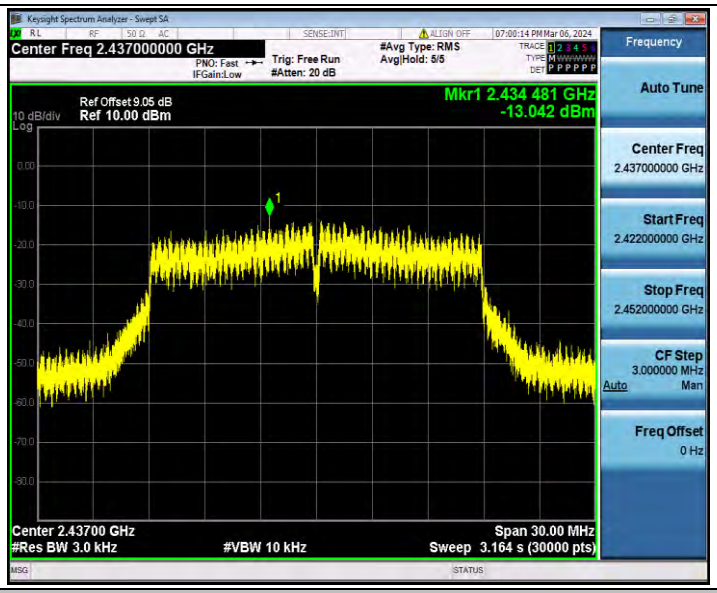
11G_Ant1_2462



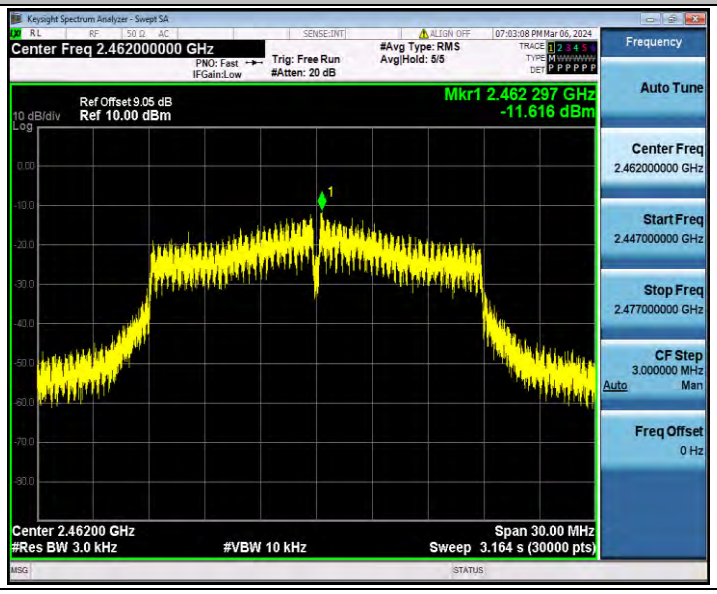
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



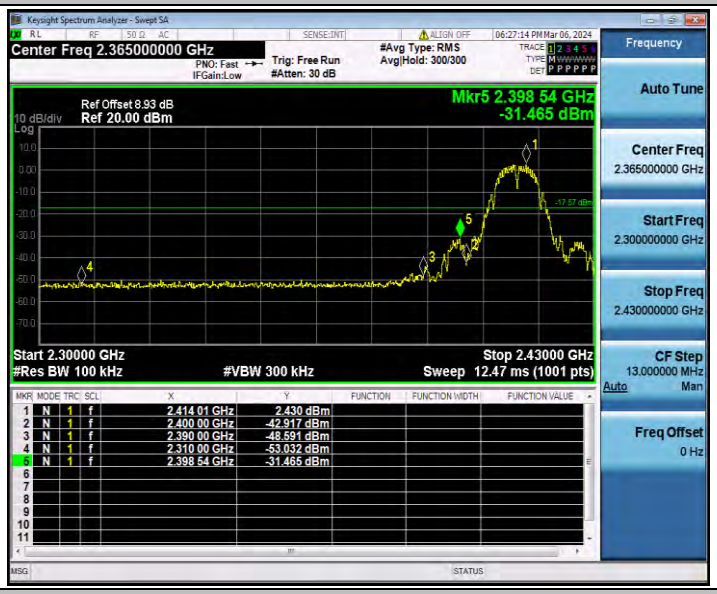
Appendix A.5: Band edge measurements

Test Result

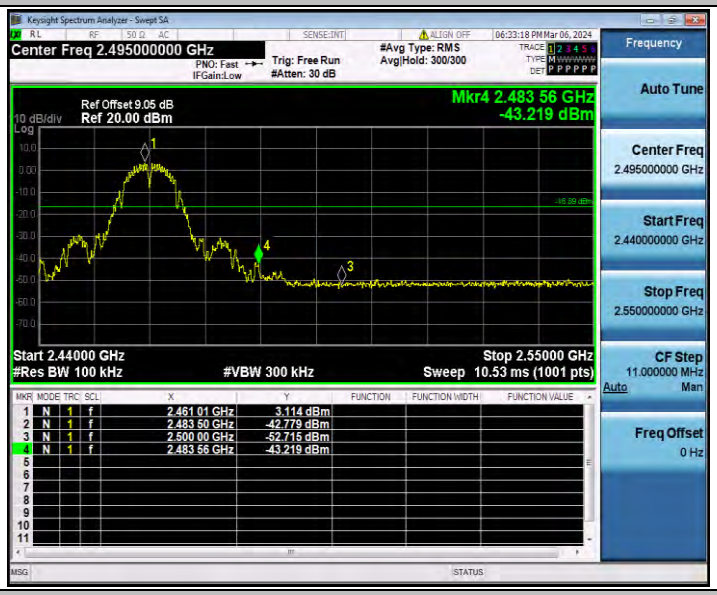
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.43	-31.47	≤-17.57	PASS
		High	2462	3.11	-43.22	≤-16.89	PASS
11G	Ant1	Low	2412	-0.04	-28.76	≤-20.04	PASS
		High	2462	0.55	-38.71	≤-19.45	PASS
11N20SISO	Ant1	Low	2412	0.10	-28.97	≤-19.9	PASS
		High	2462	0.05	-39.24	≤-19.95	PASS

Test Graphs

11B_Ant1_Low_2412

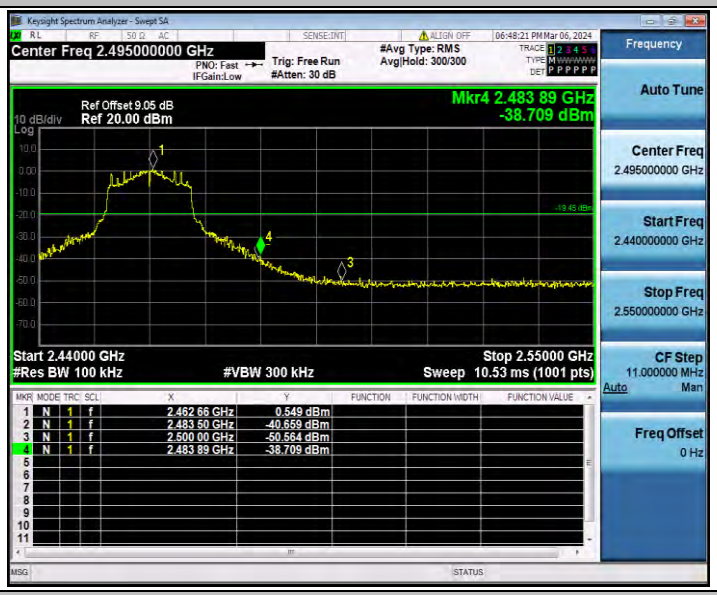


11B_Ant1_High_2462

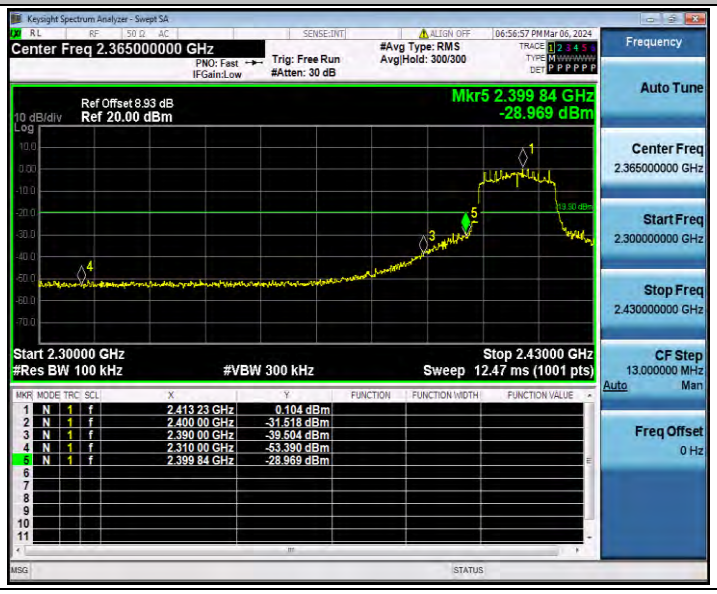


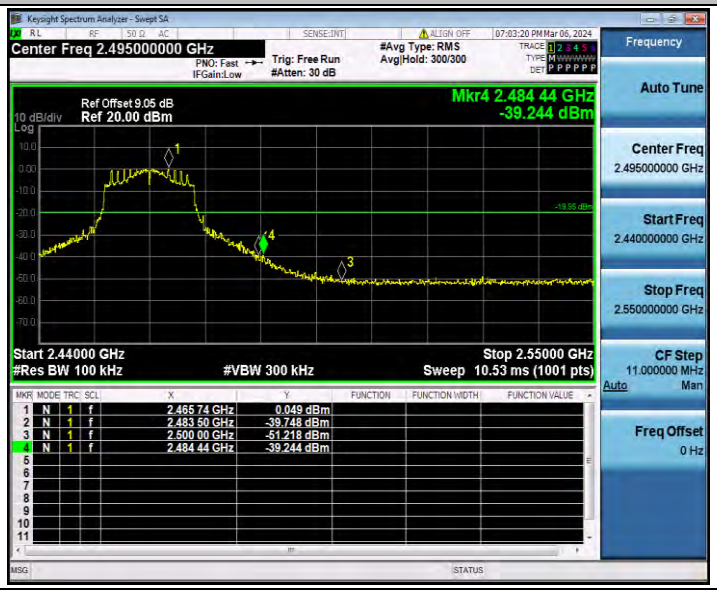
11G_Ant1_Low_2412

11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462


Appendix A.6: Conducted Spurious Emission

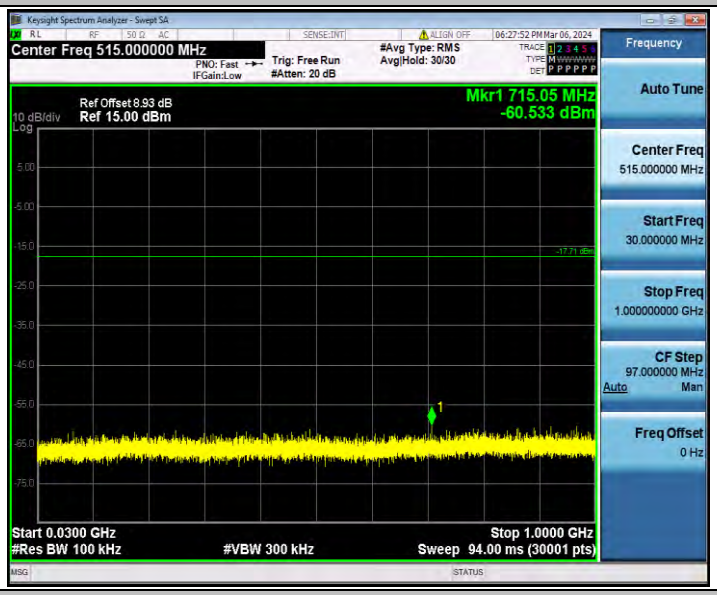
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.29	2.29	---	PASS
			30~1000	2.29	-60.53	≤-17.71	PASS
			1000~26500	2.29	-47.89	≤-17.71	PASS
		2462	Reference	1.97	1.97	---	PASS
			30~1000	1.97	-60.41	≤-18.03	PASS
			1000~26500	1.97	-47.66	≤-18.03	PASS
11G	Ant1	2412	Reference	-1.73	-1.73	---	PASS
			30~1000	-1.73	-60.66	≤-21.73	PASS
			1000~26500	-1.73	-48.12	≤-21.73	PASS
		2437	Reference	-0.69	-0.69	---	PASS
			30~1000	-0.69	-60.55	≤-20.69	PASS
			1000~26500	-0.69	-47.05	≤-20.69	PASS
		2462	Reference	-0.59	-0.59	---	PASS
			30~1000	-0.59	-59.88	≤-20.59	PASS
			1000~26500	-0.59	-48.16	≤-20.59	PASS
11N20SISO	Ant1	2412	Reference	-2.43	-2.43	---	PASS
			30~1000	-2.43	-60.58	≤-22.43	PASS
			1000~26500	-2.43	-47.82	≤-22.43	PASS
		2437	Reference	0.25	0.25	---	PASS
			30~1000	0.25	-60.16	≤-19.75	PASS
			1000~26500	0.25	-47.3	≤-19.75	PASS
		2462	Reference	-0.61	-0.61	---	PASS
			30~1000	-0.61	-60.74	≤-20.61	PASS
			1000~26500	-0.61	-47.71	≤-20.61	PASS

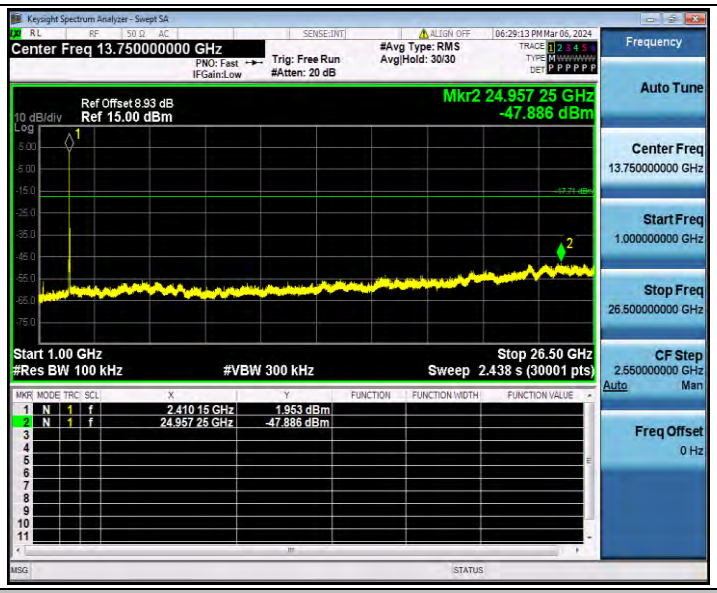
Test Graphs

11B_Ant1_2412_0~Reference

11B_Ant1_2412_30~1000



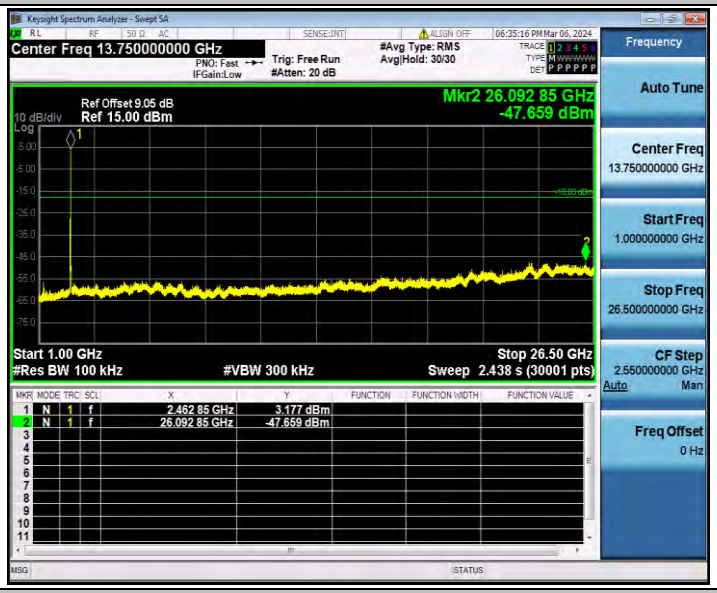
11B_Ant1_2412_1000~26500



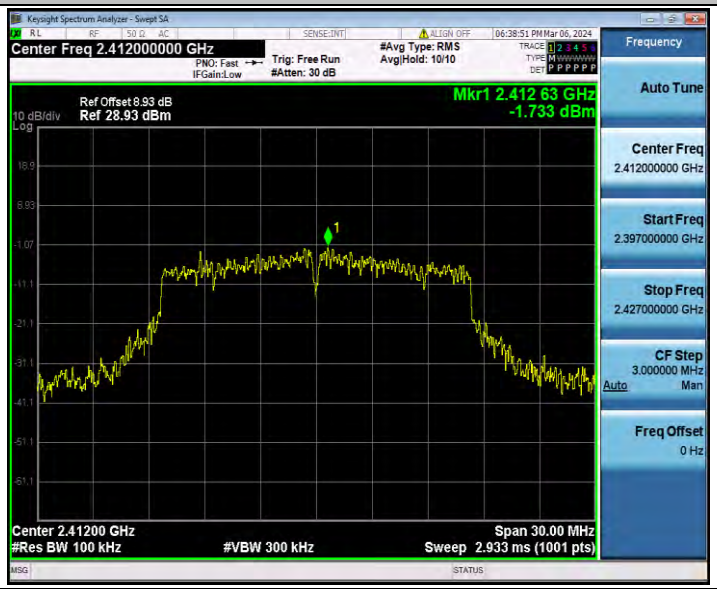
11B_Ant1_2462_0~Reference

11B_Ant1_2462_30~1000

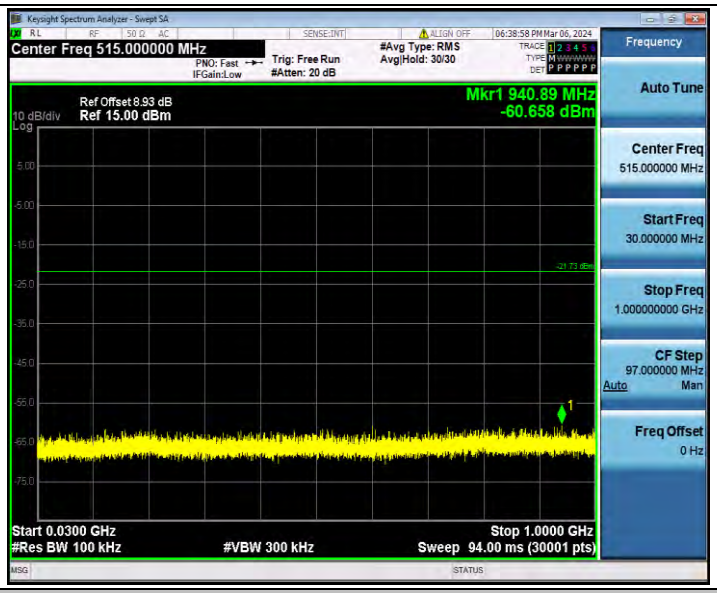
11B_Ant1_2462_1000~26500



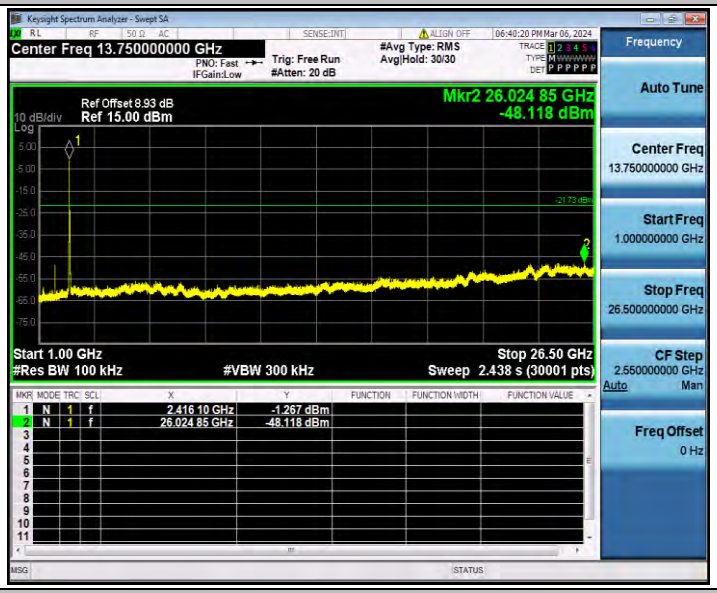
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

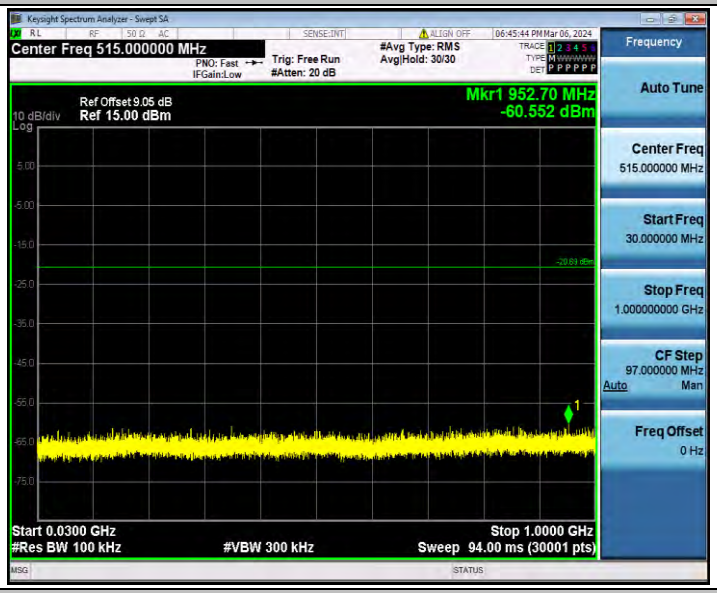


11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

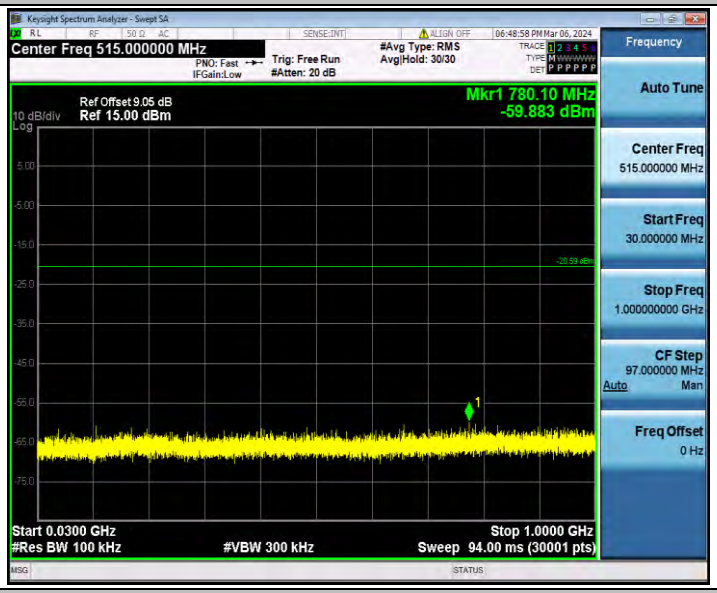
11G_Ant1_2437_30~1000



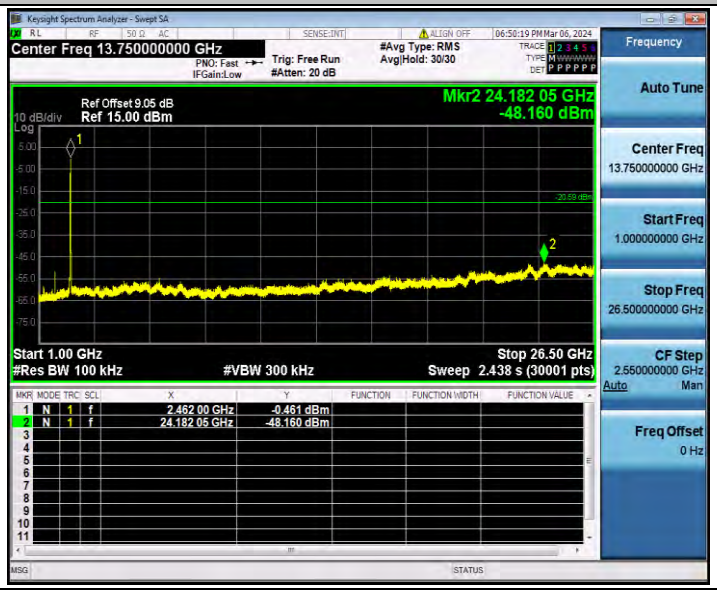
11G_Ant1_2437_1000~26500

11G_Ant1_2462_0~Reference

11G_Ant1_2462_30~1000

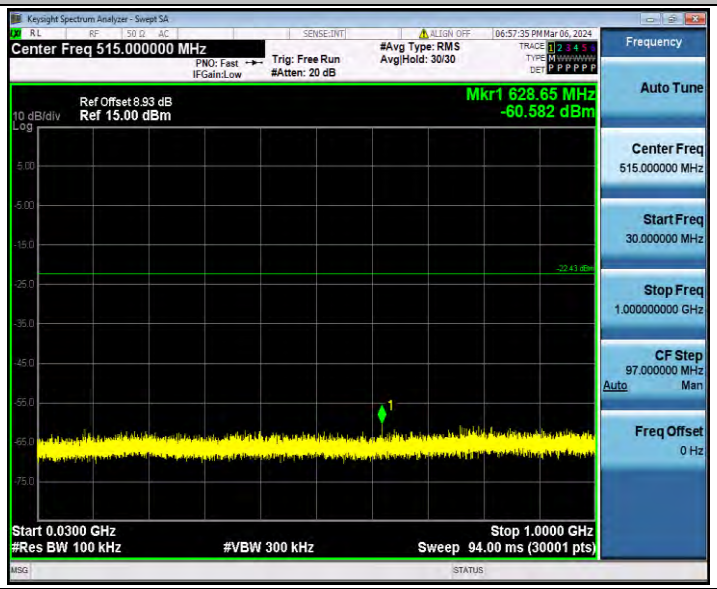


11G_Ant1_2462_1000~26500

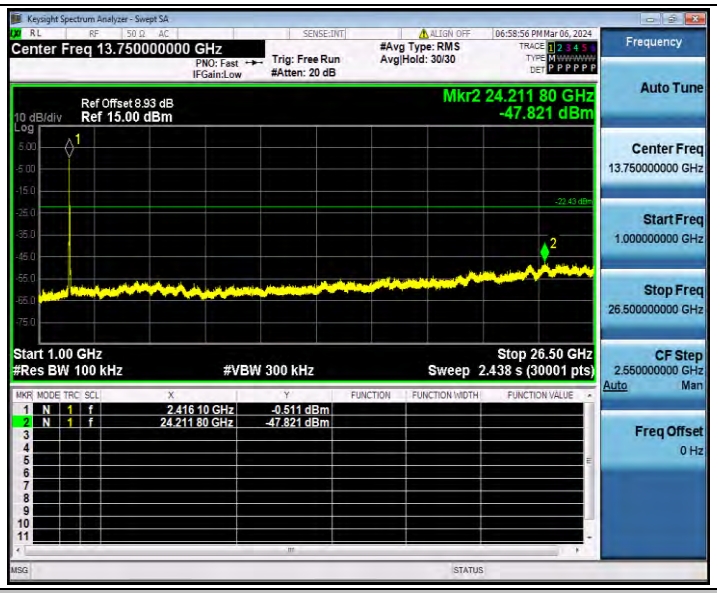


11N20SISO_Ant1_2412_0~Reference

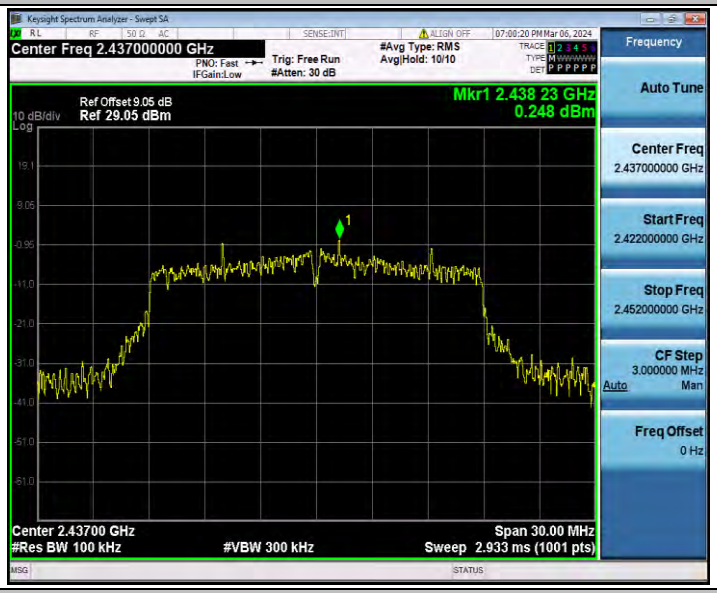
11N20SISO_Ant1_2412_30~1000



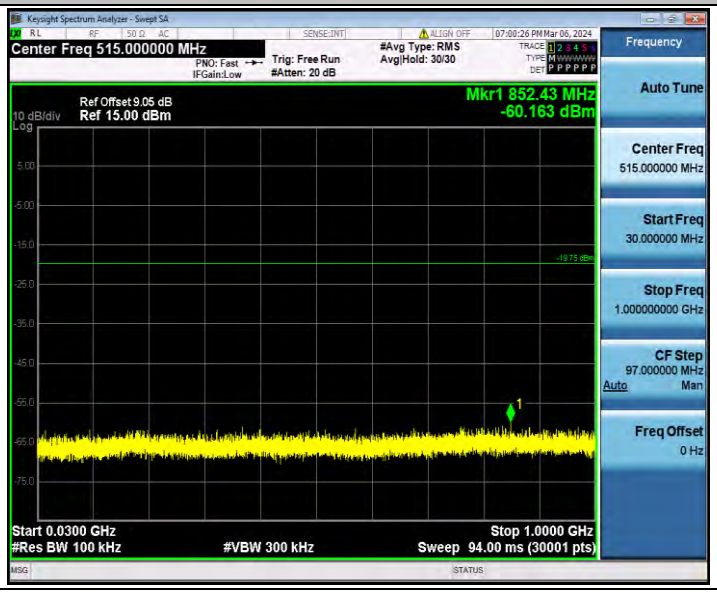
11N20SISO_Ant1_2412_1000~26500



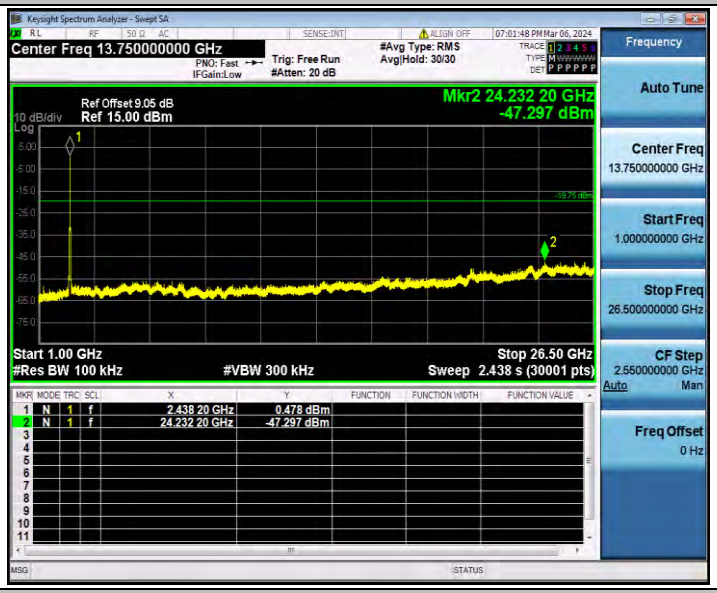
11N20SISO_Ant1_2437_0~Reference



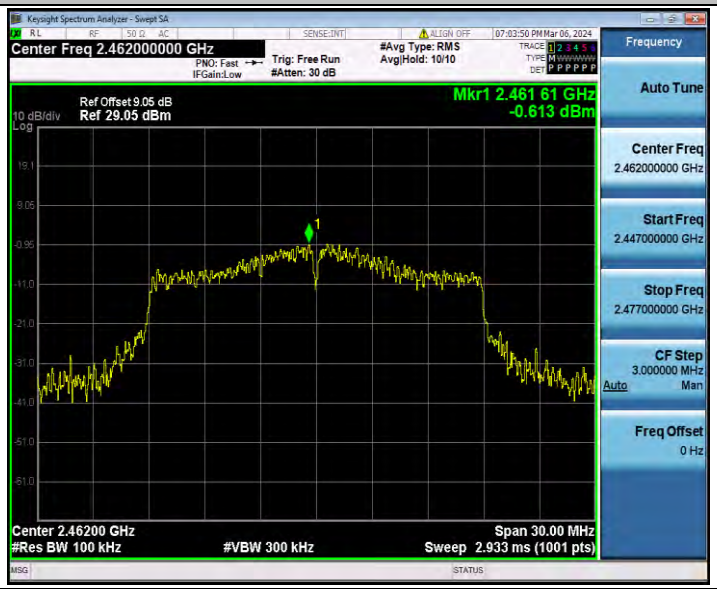
11N20SISO_Ant1_2437_30~1000



11N20SISO_Ant1_2437_1000~26500

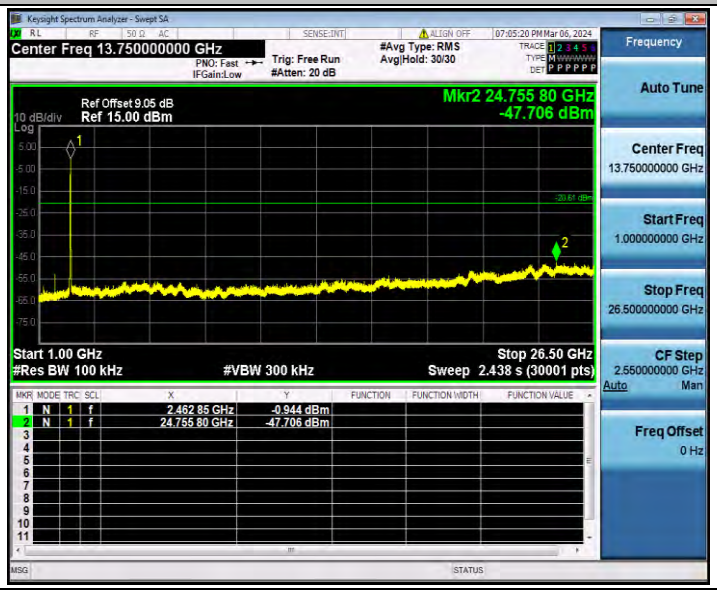


11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000

11N20SISO_Ant1_2462_1000~26500



Appendix A.7: Emissions in Restricted Bands

Test Result

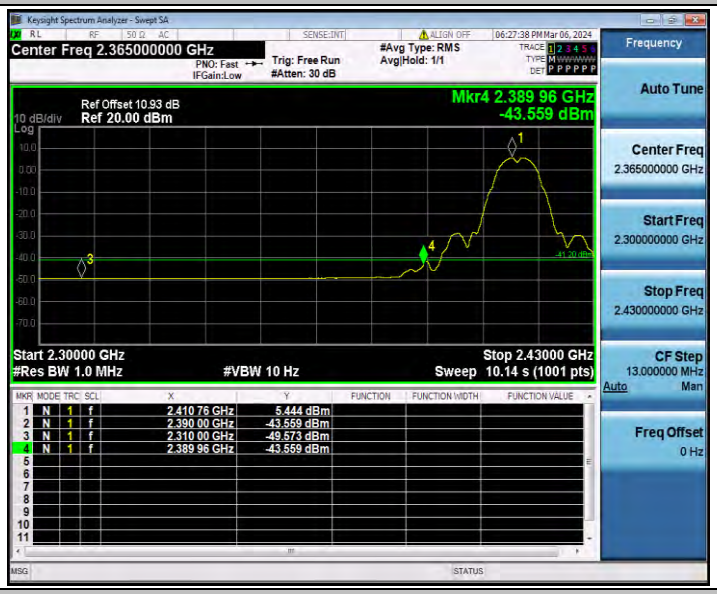
TestMode	Antenna	ChName	Frequency[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.57	≤-41.20	45.63	≤54	PASS
				AV	2389.960	-43.56	≤-41.20	51.64	≤54	PASS
				AV	2390.000	-43.56	≤-41.20	51.64	≤54	PASS
				Peak	2310.000	-47.3	≤-21.20	47.90	≤74	PASS
				Peak	2389.570	-39.33	≤-21.20	55.87	≤74	PASS
				Peak	2390.000	-41.17	≤-21.20	54.03	≤74	PASS
		High	2462	AV	2483.500	-48.9	≤-41.20	46.30	≤54	PASS
				AV	2499.400	-48.85	≤-41.20	46.35	≤54	PASS
				AV	2500.000	-48.91	≤-41.20	46.29	≤54	PASS
				Peak	2483.500	-48.55	≤-21.20	46.65	≤74	PASS
				Peak	2497.860	-40.99	≤-21.20	54.21	≤74	PASS
				Peak	2500.000	-42.32	≤-21.20	52.88	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.63	≤-41.20	45.57	≤54	PASS
				AV	2389.960	-45.49	≤-41.20	49.71	≤54	PASS
				AV	2390.000	-45.49	≤-41.20	49.71	≤54	PASS
				Peak	2310.000	-48.11	≤-21.20	47.09	≤74	PASS
				Peak	2383.850	-37.92	≤-21.20	57.28	≤74	PASS
				Peak	2390.000	-43.41	≤-21.20	51.79	≤74	PASS
		High	2462	AV	2483.500	-46.71	≤-41.20	48.49	≤54	PASS
				AV	2483.560	-46.73	≤-41.20	48.47	≤54	PASS
				AV	2500.000	-48.84	≤-41.20	46.36	≤54	PASS
				Peak	2483.500	-44.4	≤-21.20	50.80	≤74	PASS
				Peak	2485.760	-39.18	≤-21.20	56.02	≤74	PASS
				Peak	2500.000	-47.37	≤-21.20	47.83	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-49.62	≤-41.20	45.58	≤54	PASS
				AV	2389.960	-45.85	≤-41.20	49.35	≤54	PASS
				AV	2390.000	-45.85	≤-41.20	49.35	≤54	PASS
				Peak	2310.000	-44.71	≤-21.20	50.49	≤74	PASS
				Peak	2384.370	-39.83	≤-21.20	55.37	≤74	PASS
				Peak	2390.000	-43.75	≤-21.20	51.45	≤74	PASS
		High	2462	AV	2483.500	-47.41	≤-41.20	47.79	≤54	PASS
				AV	2484.110	-47.39	≤-41.20	47.81	≤54	PASS
				AV	2500.000	-48.86	≤-41.20	46.34	≤54	PASS
				Peak	2483.500	-42.59	≤-21.20	52.61	≤74	PASS
				Peak	2493.130	-40.61	≤-21.20	54.59	≤74	PASS
				Peak	2500.000	-46.51	≤-21.20	48.69	≤74	PASS

Note：

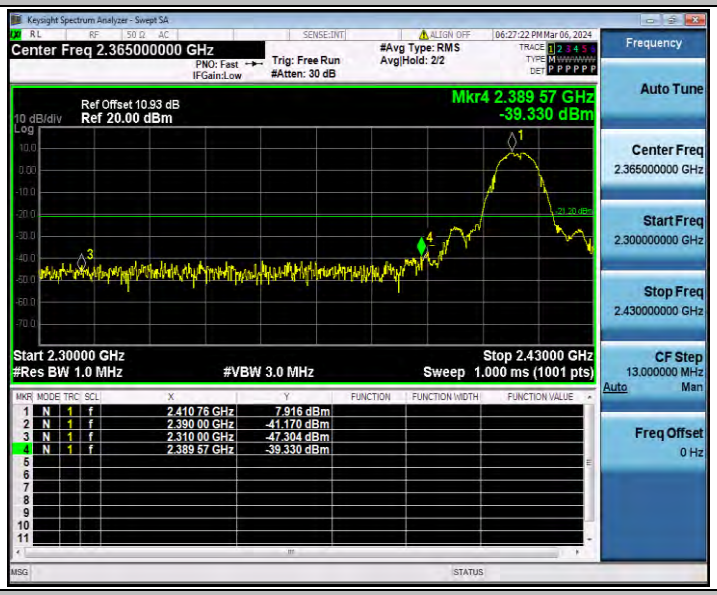
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

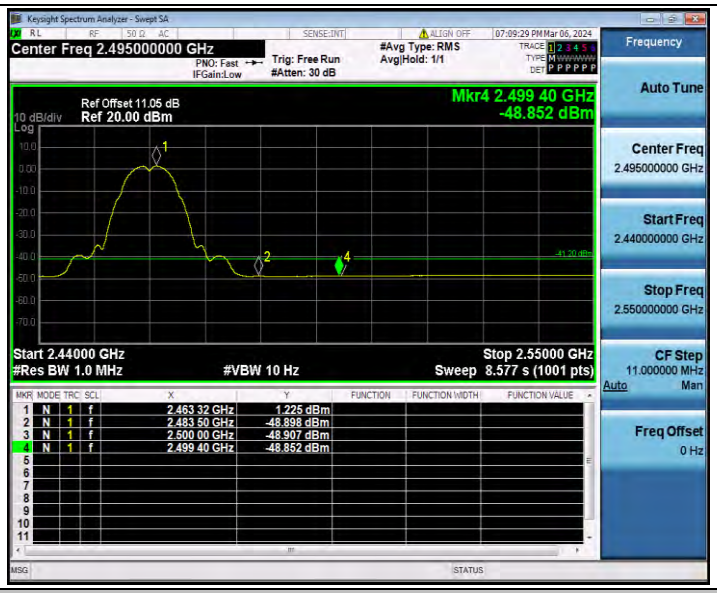
11B_Ant1_Low_2412_AV



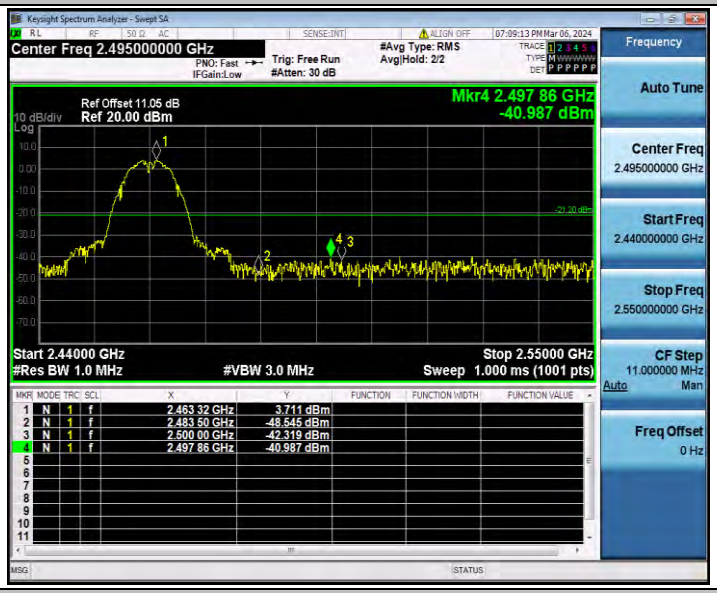
11B_Ant1_Low_2412_Peak



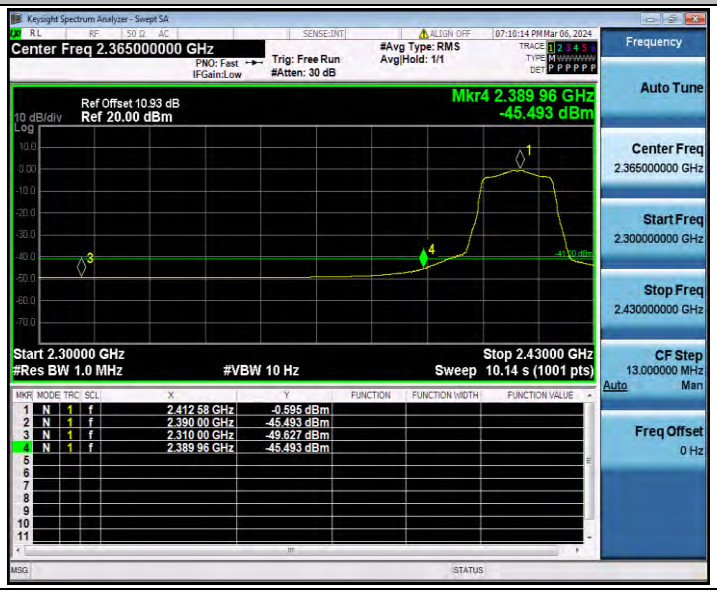
11B_Ant1_High_2462_AV



11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV



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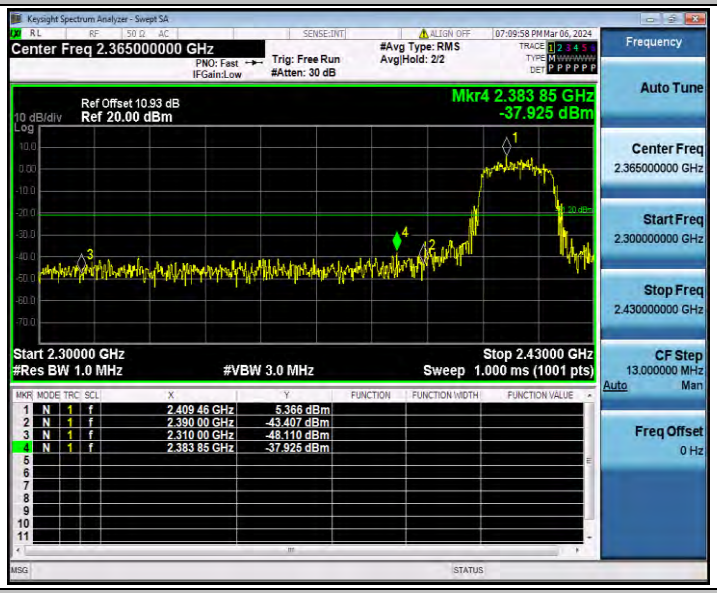

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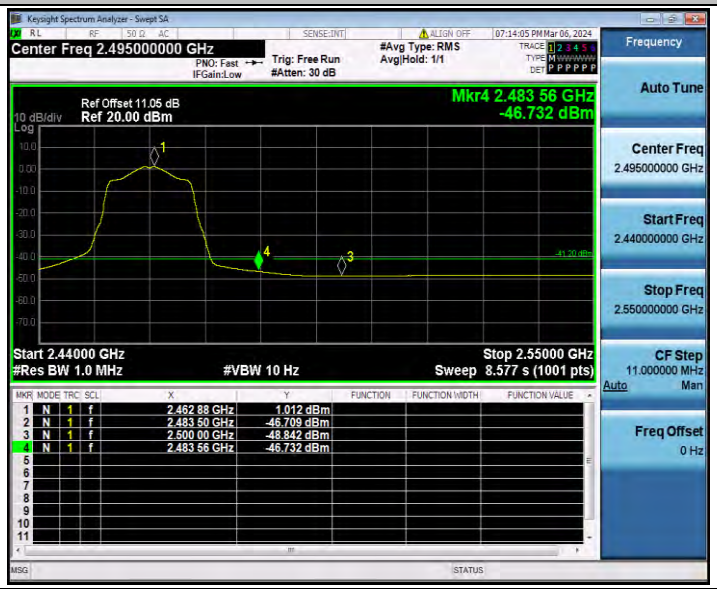

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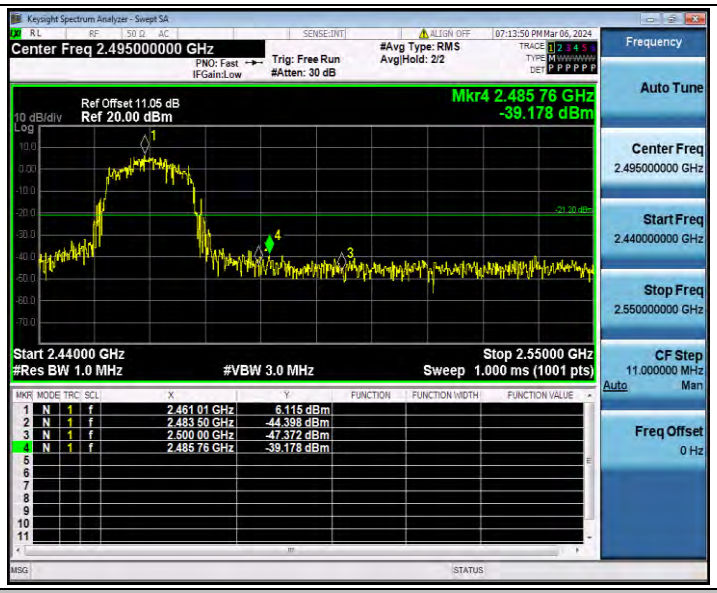
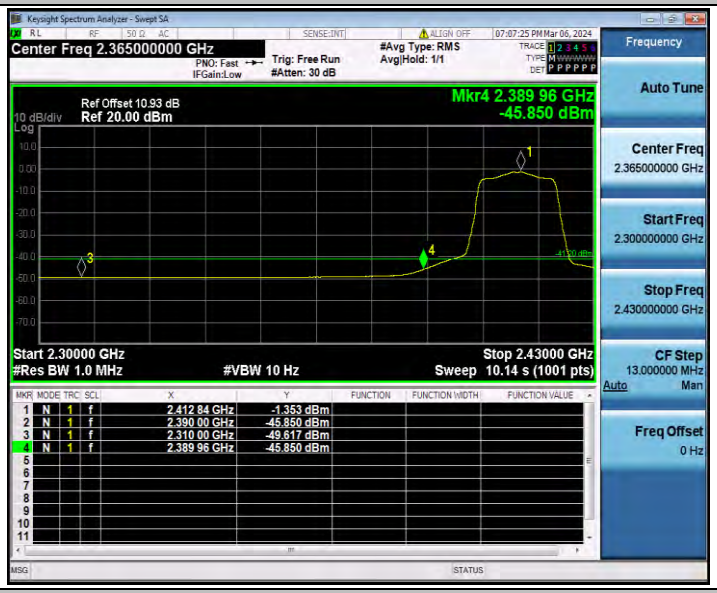


11N20SISO_Ant1_Low_2412_AV



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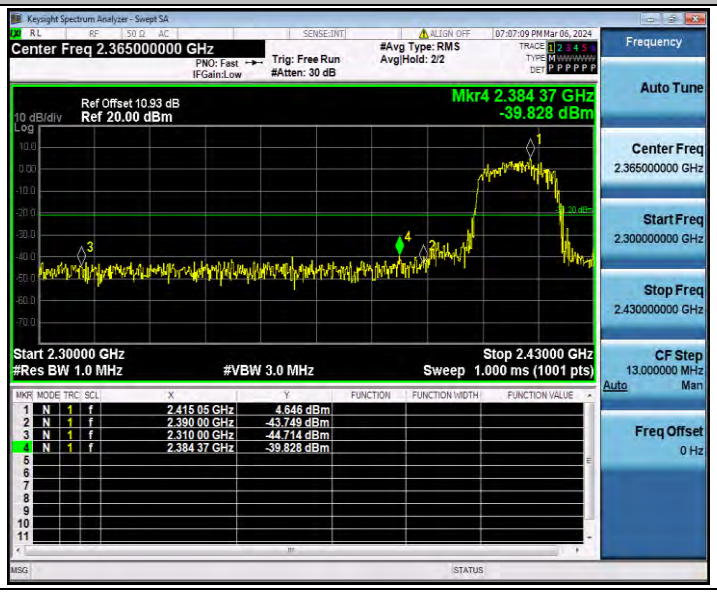

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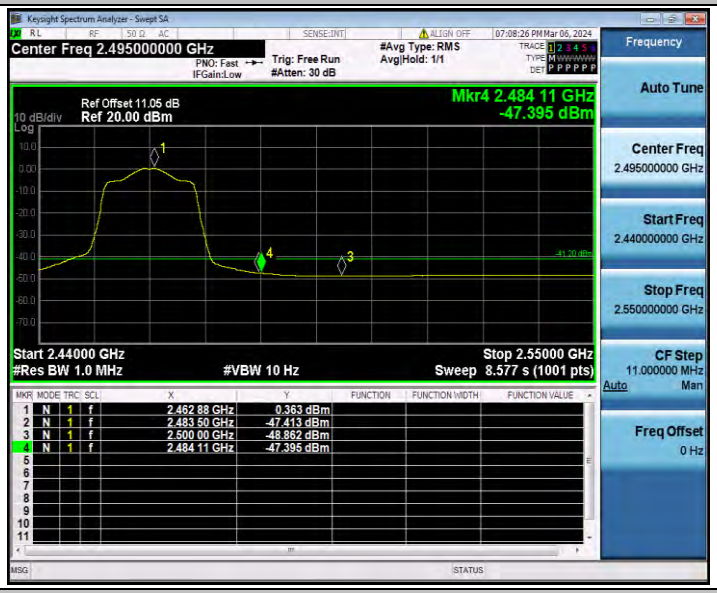
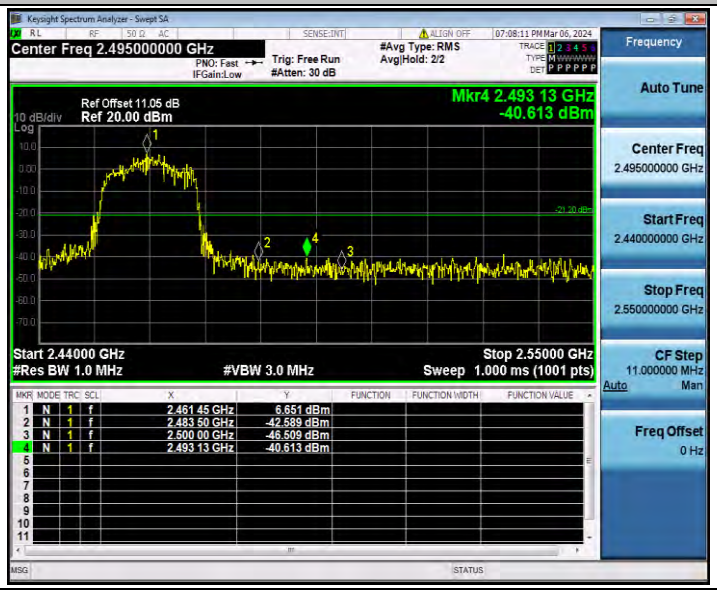
11N20SISO_Ant1_High_2462_Peak