

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BVDW-V06

Company : SHENZHEN KINGRING TECHNOLOGY CO.,LTD

EUT : Smart glasses

Model Number : V06

Report No. : CTA26040901602

Reviewed By : Eric Wang

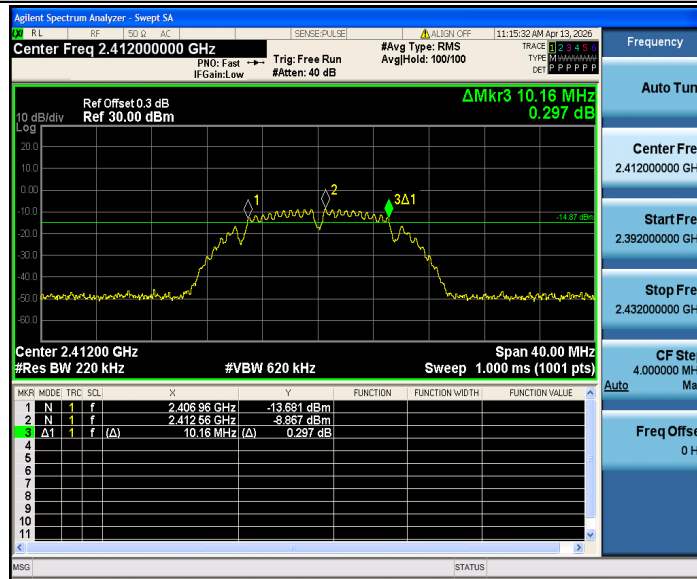
Appendix A: DTS Bandwidth

Test Result

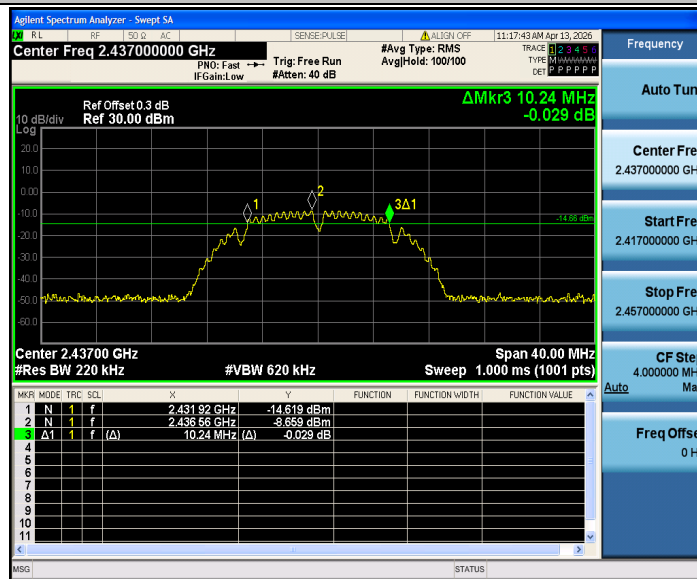
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.160	2406.960	2417.120	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	15.600	2404.360	2419.960	0.5	PASS
		2437	15.640	2429.240	2444.880	0.5	PASS
		2462	15.720	2454.120	2469.840	0.5	PASS
11N20SISO	Ant1	2412	17.080	2403.520	2420.600	0.5	PASS
		2437	17.160	2428.480	2445.640	0.5	PASS
		2462	16.040	2454.440	2470.480	0.5	PASS

Test Graphs

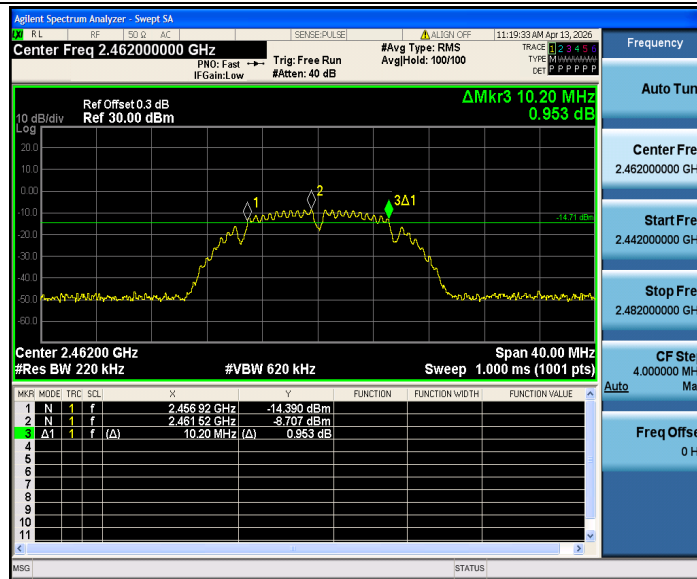
11B_Ant1_2412



11B_Ant1_2437



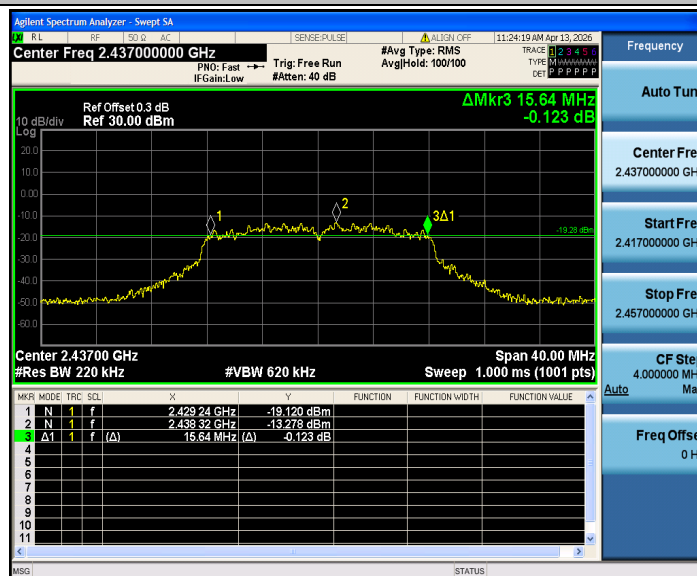
11B_Ant1_2462



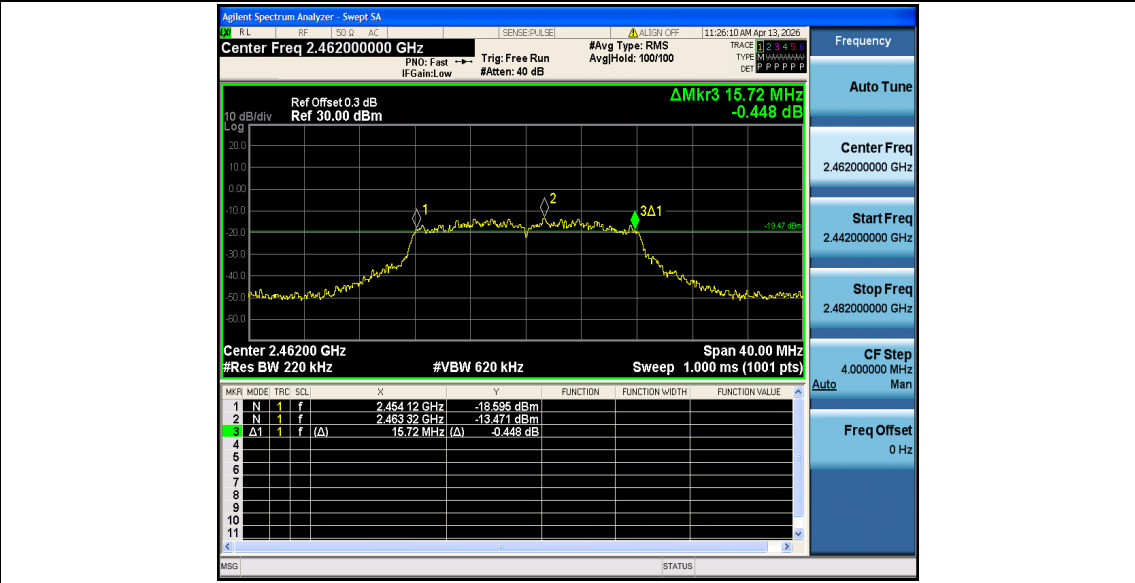
11G_Ant1_2412



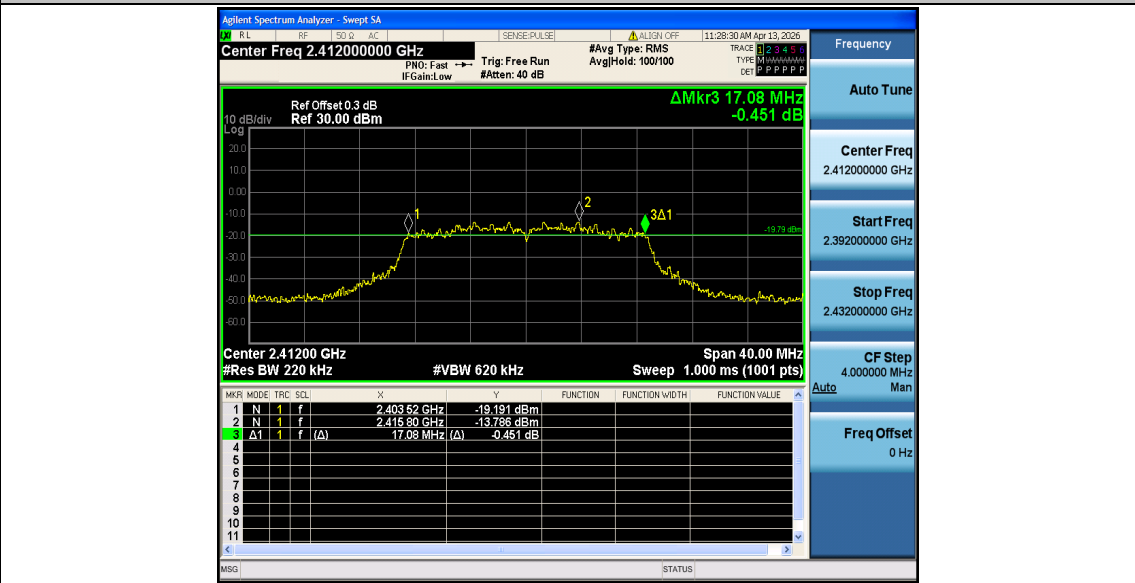
11G_Ant1_2437



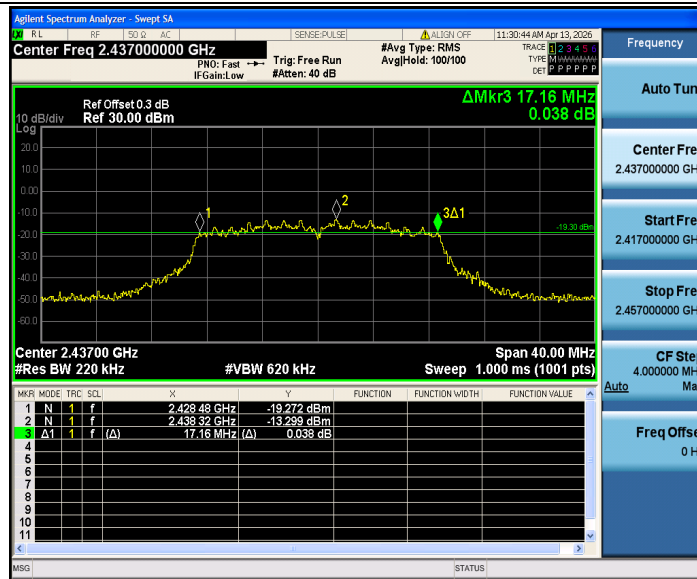
11G_Ant1_2462



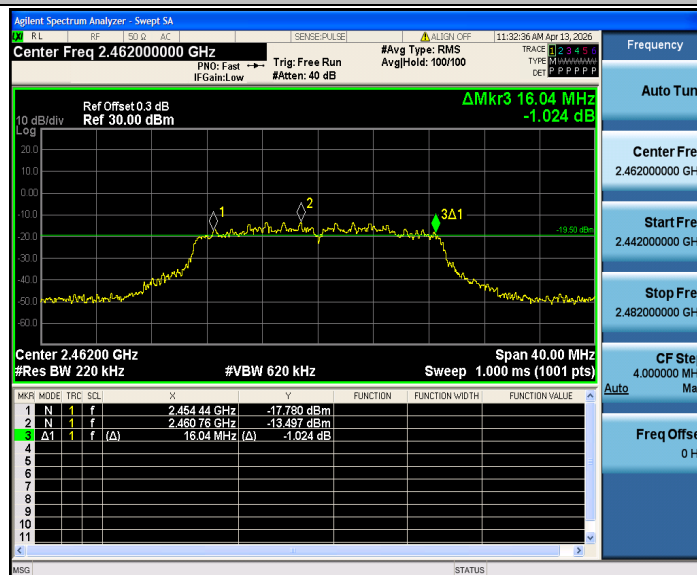
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



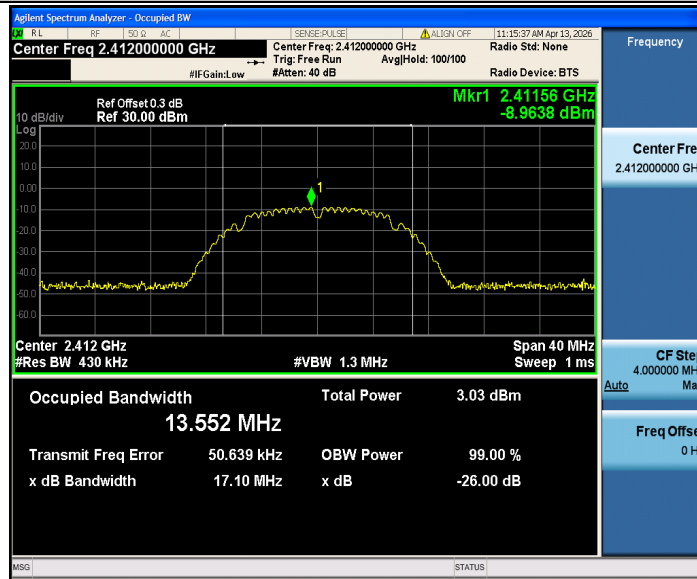
Appendix B: Occupied Channel Bandwidth

Test Result

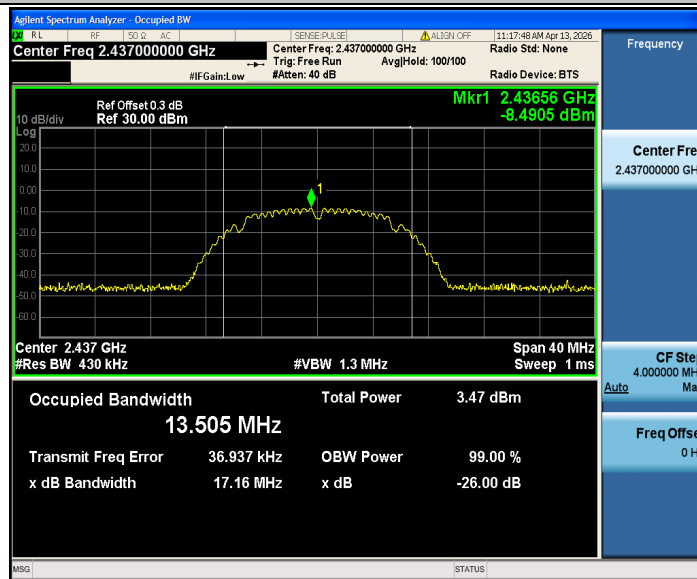
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.552	2405.2746	2418.8266	---	---
		2437	13.505	2430.2844	2443.7894	---	---
		2462	13.547	2455.2451	2468.7921	---	---
11G	Ant1	2412	16.889	2403.6403	2420.5293	---	---
		2437	16.863	2428.5965	2445.4595	---	---
		2462	16.915	2453.5752	2470.4902	---	---
11N20SISO	Ant1	2412	18.036	2403.0378	2421.0738	---	---
		2437	17.960	2428.0338	2445.9938	---	---
		2462	18.034	2453.0001	2471.0341	---	---

Test Graphs

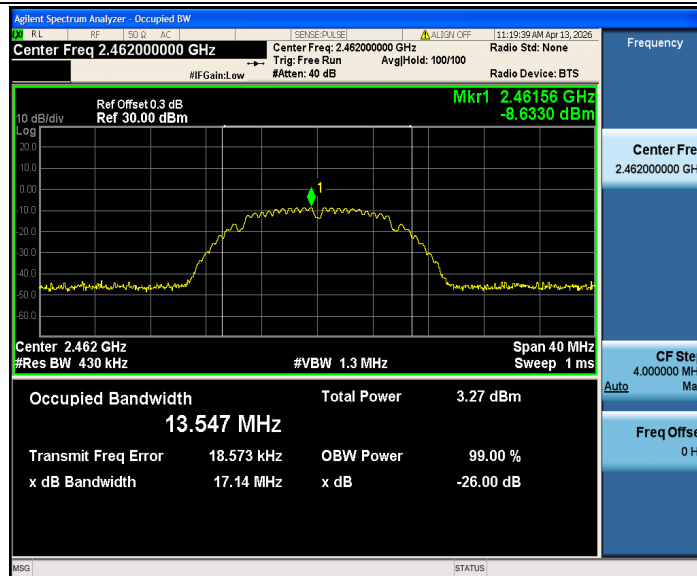
11B_Ant1_2412



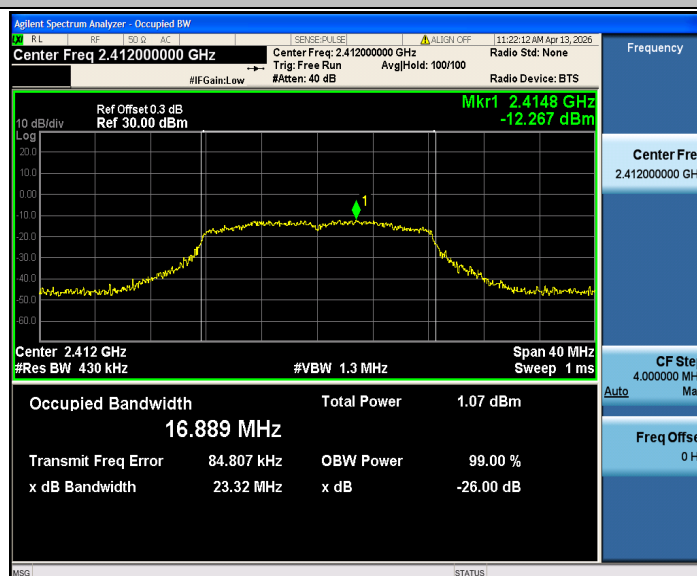
11B_Ant1_2437



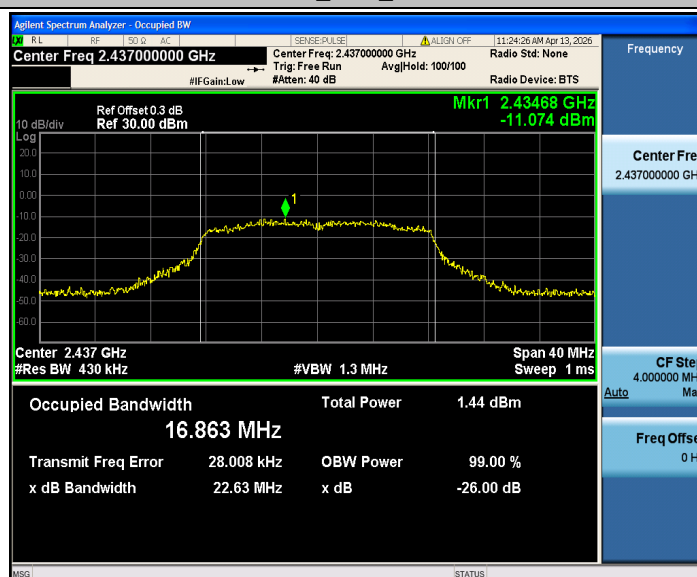
11B_Ant1_2462



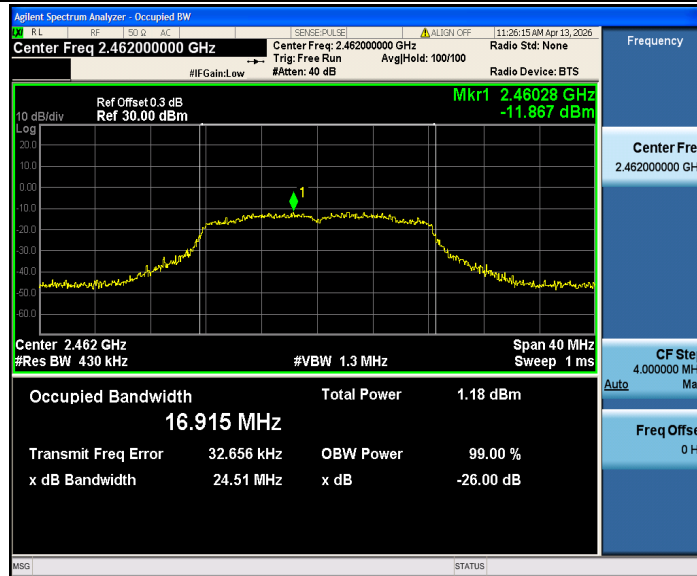
11G_Ant1_2412



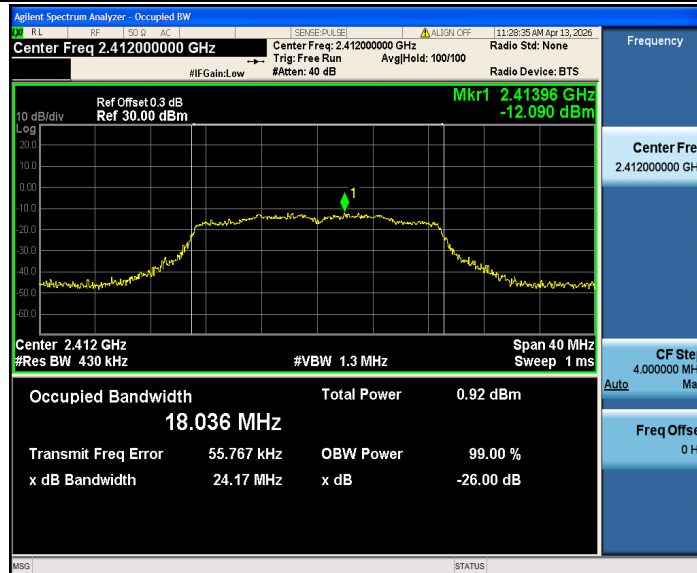
11G_Ant1_2437



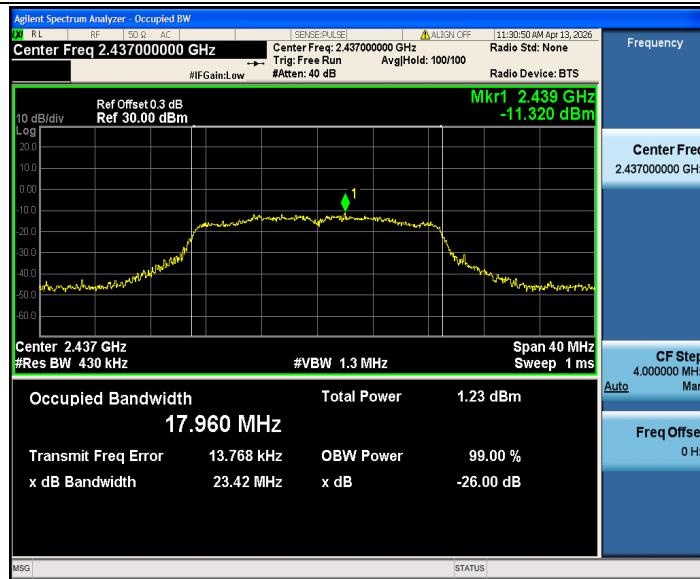
11G_Ant1_2462



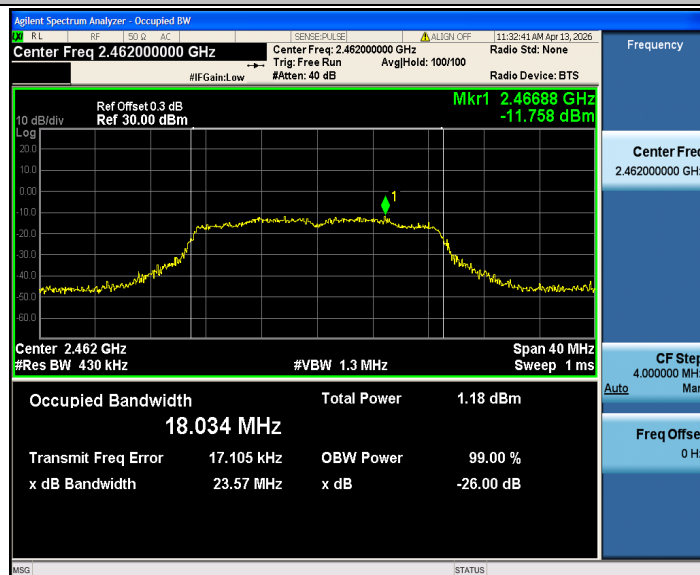
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	2.57	≤30.00	PASS
		2437	3.05	≤30.00	PASS
		2462	2.93	≤30.00	PASS
11G	Ant1	2412	1.91	≤30.00	PASS
		2437	2.30	≤30.00	PASS
		2462	2.16	≤30.00	PASS
11N20SISO	Ant1	2412	1.88	≤30.00	PASS
		2437	2.24	≤30.00	PASS
		2462	1.95	≤30.00	PASS

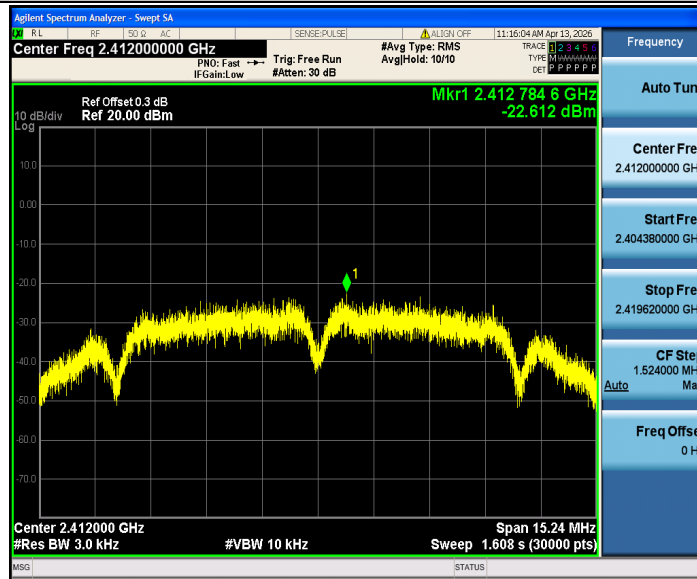
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-22.61	≤8.00	PASS
		2437	-22.43	≤8.00	PASS
		2462	-22.93	≤8.00	PASS
11G	Ant1	2412	-30.49	≤8.00	PASS
		2437	-29.30	≤8.00	PASS
		2462	-28.53	≤8.00	PASS
11N20SISO	Ant1	2412	-29.57	≤8.00	PASS
		2437	-27.67	≤8.00	PASS
		2462	-28.56	≤8.00	PASS

Test Graphs

11B_Ant1_2412



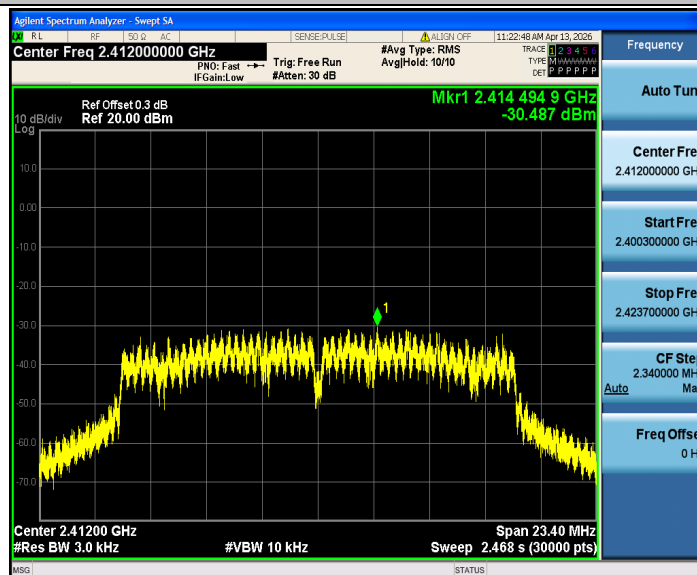
11B_Ant1_2437



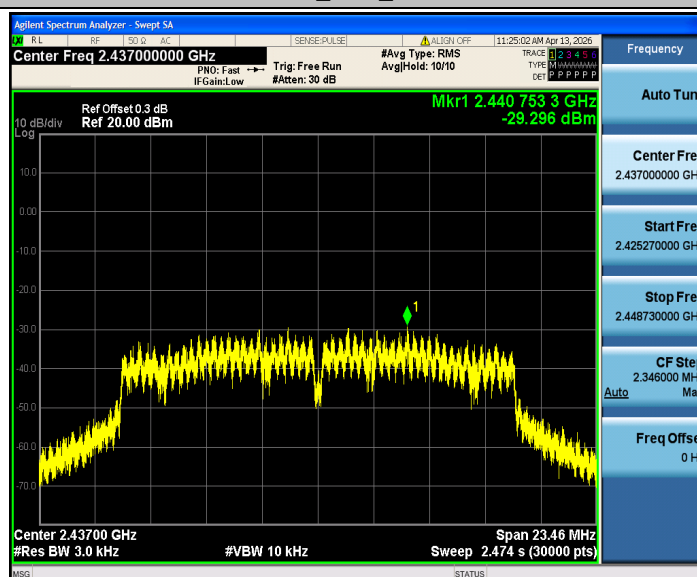
11B_Ant1_2462



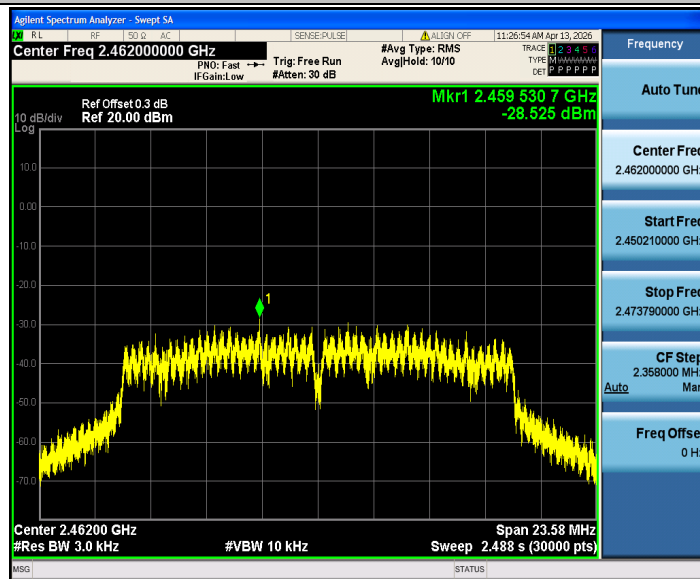
11G_Ant1_2412



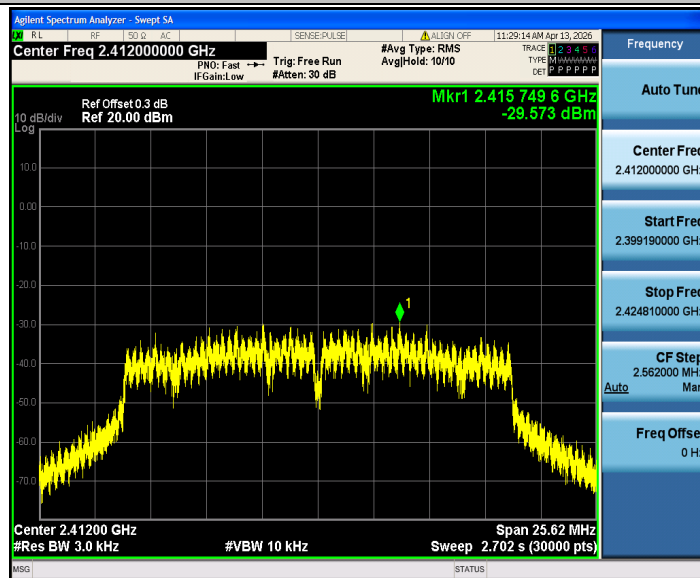
11G_Ant1_2437



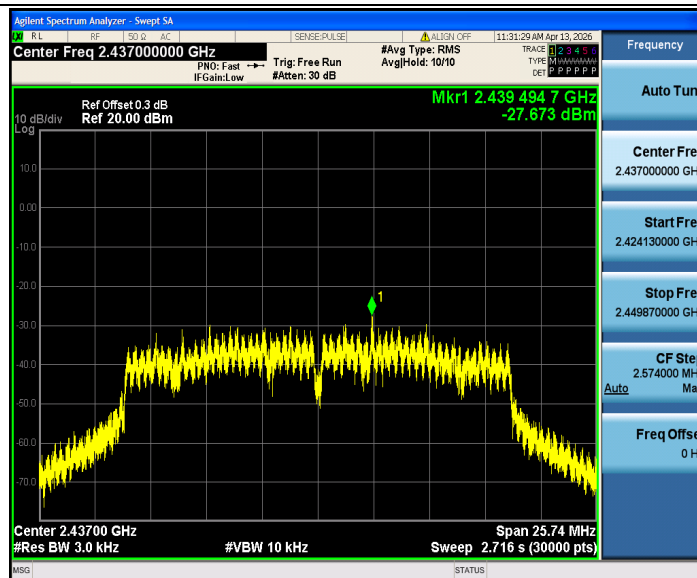
11G_Ant1_2462



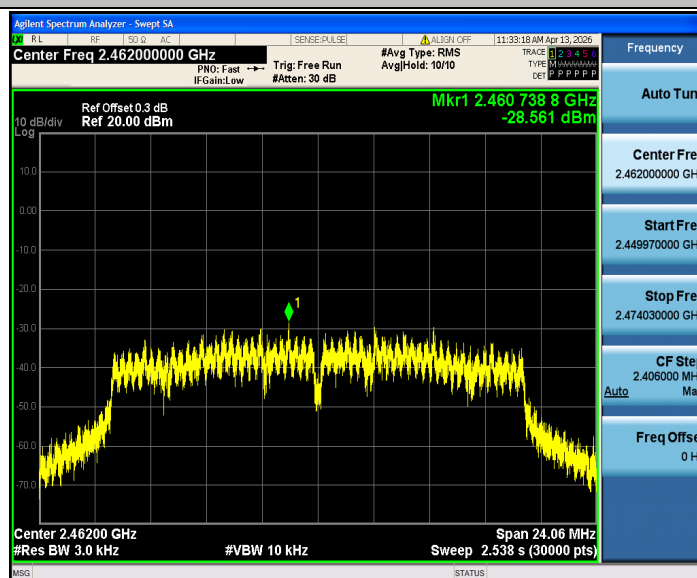
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



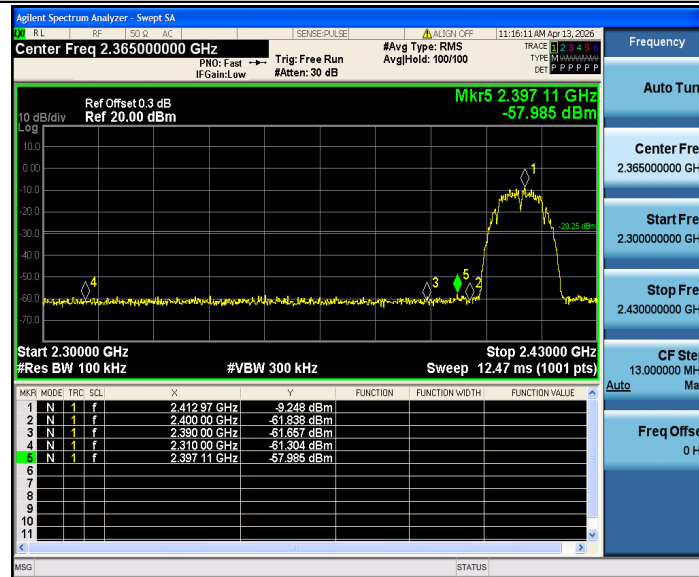
Appendix E: Band edge measurements

Test Result

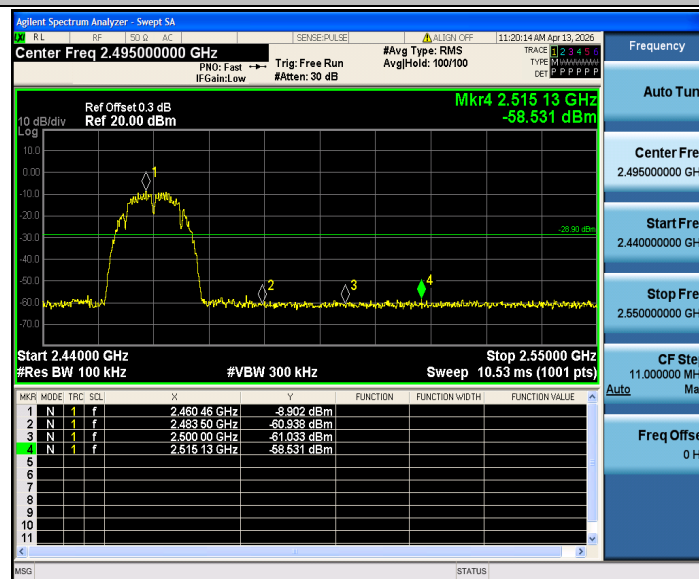
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-9.25	-57.99	≤-29.25	PASS
		High	2462	-8.90	-58.53	≤-28.9	PASS
11G	Ant1	Low	2412	-14.42	-46.63	≤-34.42	PASS
		High	2462	-14.19	-57.17	≤-34.19	PASS
11N20SISO	Ant1	Low	2412	-14.40	-46.43	≤-34.4	PASS
		High	2462	-14.22	-58.1	≤-34.22	PASS

Test Graphs

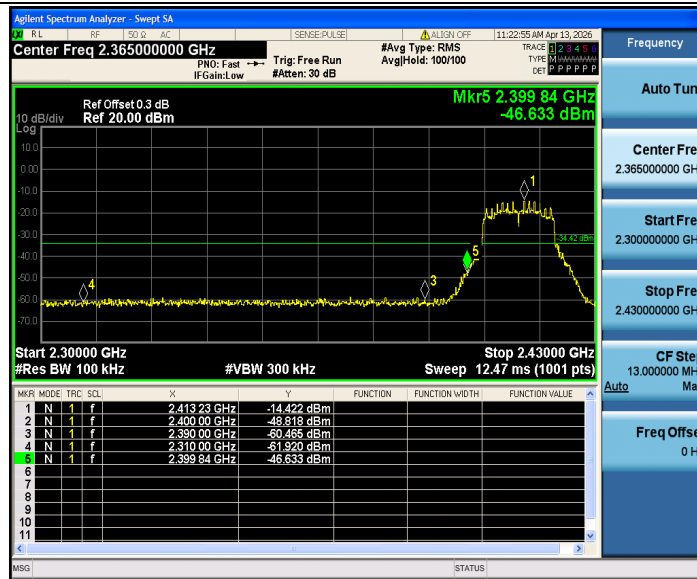
11B_Ant1_Low_2412



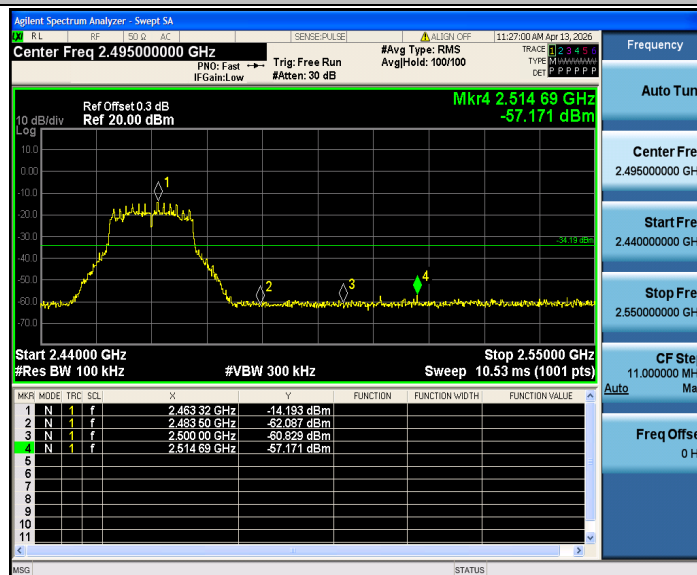
11B_Ant1_High_2462



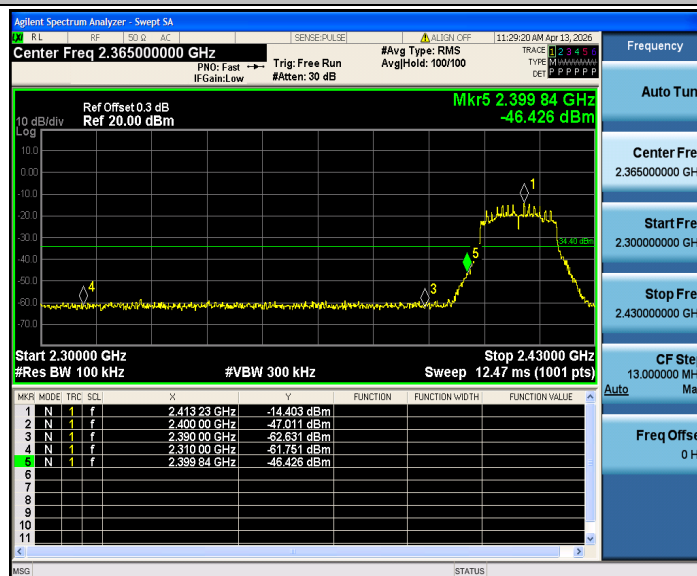
11G_Ant1_Low_2412



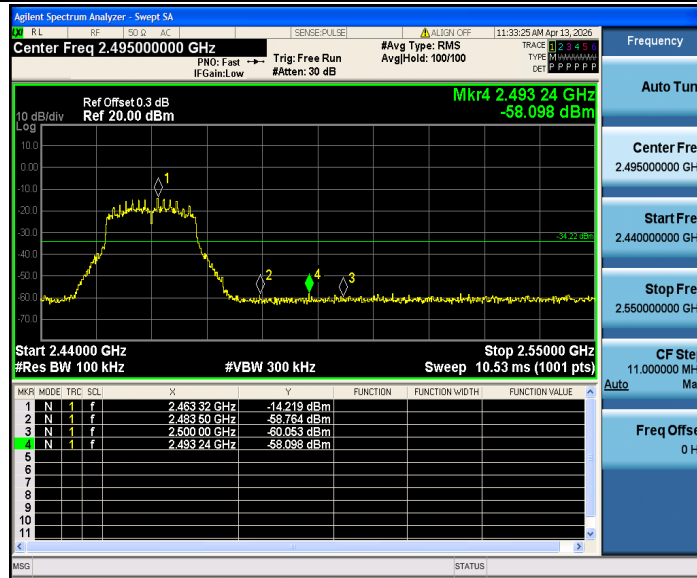
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

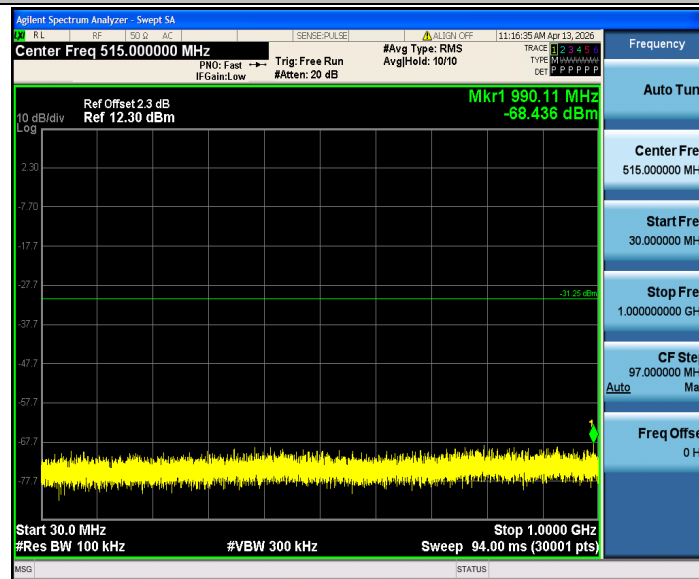
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-11.25	-11.25	---	PASS
			30~1000	-11.25	-68.44	≤-31.25	PASS
			1000~26500	-11.25	-54.92	≤-31.25	PASS
		2437	Reference	-10.51	-10.51	---	PASS
			30~1000	-10.51	-68.82	≤-30.51	PASS
			1000~26500	-10.51	-54.99	≤-30.51	PASS
		2462	Reference	-9.70	-9.70	---	PASS
			30~1000	-9.70	-68.15	≤-29.7	PASS
			1000~26500	-9.70	-54.78	≤-29.7	PASS
11G	Ant1	2412	Reference	-15.16	-15.16	---	PASS
			30~1000	-15.16	-68.08	≤-35.16	PASS
			1000~26500	-15.16	-54.55	≤-35.16	PASS
		2437	Reference	-14.58	-14.58	---	PASS
			30~1000	-14.58	-68.45	≤-34.58	PASS
			1000~26500	-14.58	-55.25	≤-34.58	PASS
		2462	Reference	-14.27	-14.27	---	PASS
			30~1000	-14.27	-67.75	≤-34.27	PASS
			1000~26500	-14.27	-54.86	≤-34.27	PASS
11N20SISO	Ant1	2412	Reference	-15.63	-15.63	---	PASS
			30~1000	-15.63	-67.99	≤-35.63	PASS
			1000~26500	-15.63	-55.61	≤-35.63	PASS
		2437	Reference	-15.16	-15.16	---	PASS
			30~1000	-15.16	-68.27	≤-35.16	PASS
			1000~26500	-15.16	-55.4	≤-35.16	PASS
		2462	Reference	-14.90	-14.90	---	PASS
			30~1000	-14.90	-68.17	≤-34.9	PASS
			1000~26500	-14.90	-54.92	≤-34.9	PASS

Test Graphs

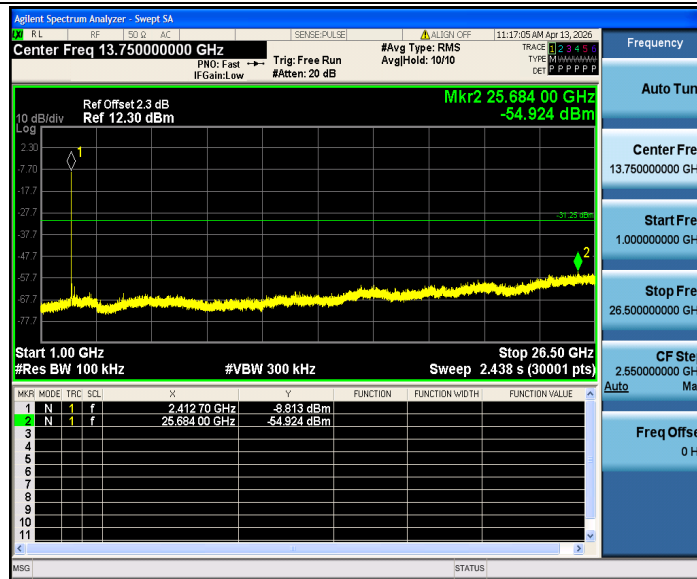
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



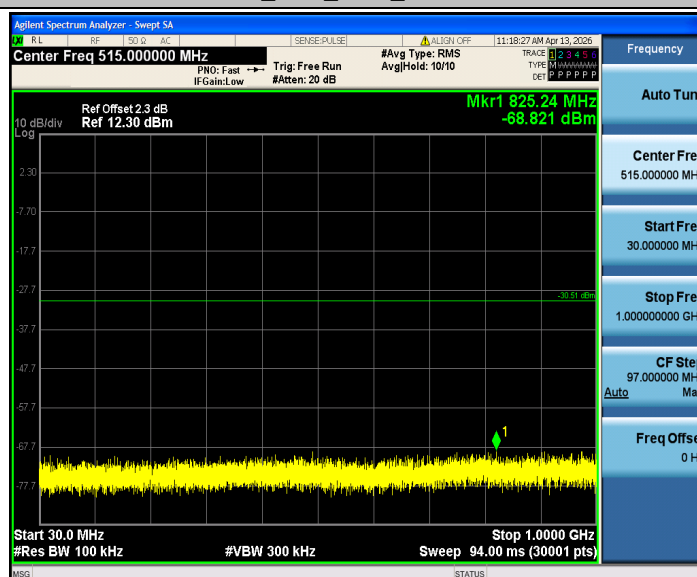
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



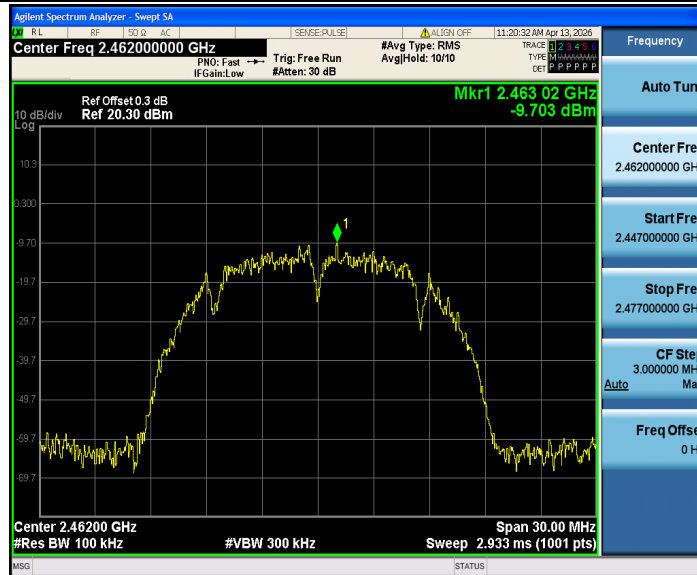
11B_Ant1_2437_30~1000



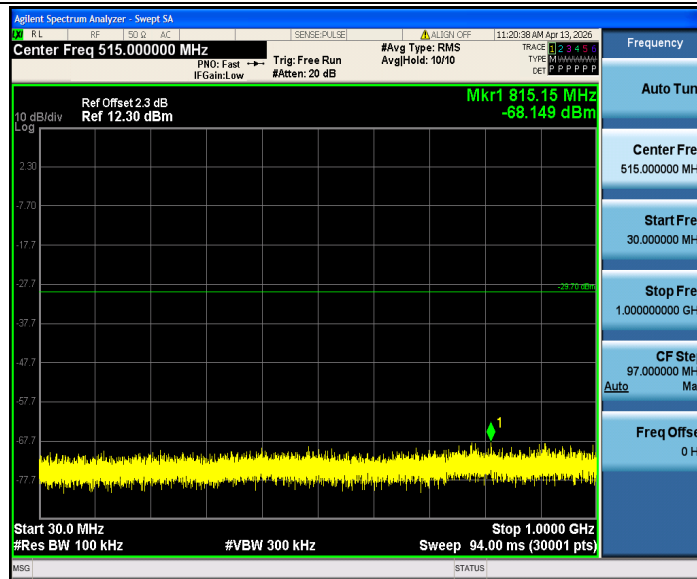
11B_Ant1_2437_1000~26500



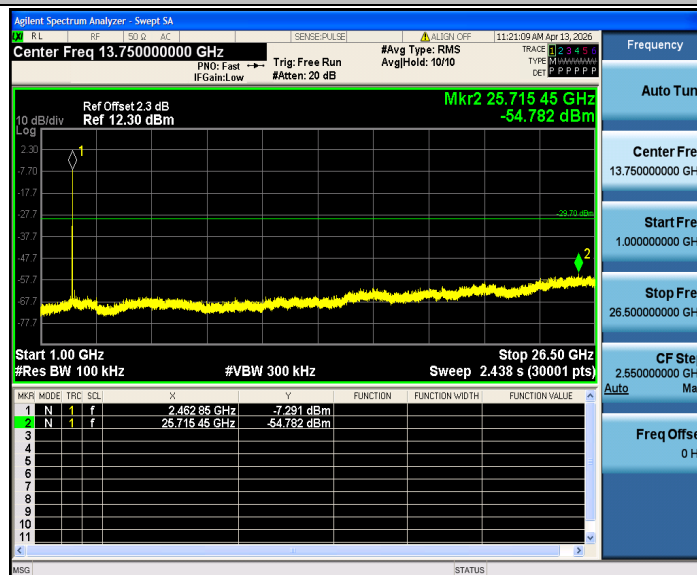
11B_Ant1_2462_0~Reference



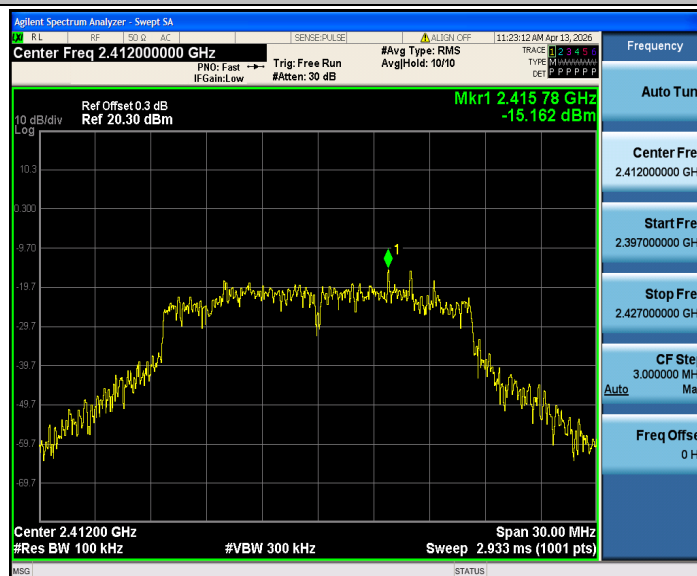
11B_Ant1_2462_30~1000



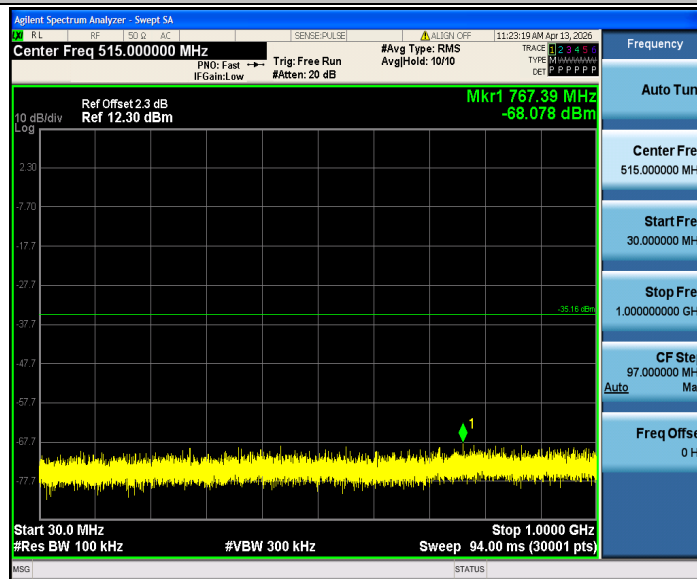
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



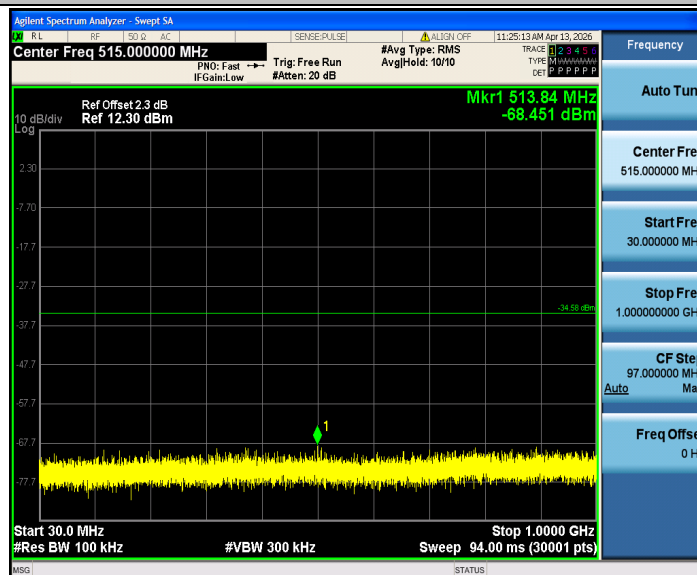
11G_Ant1_2412_1000~26500



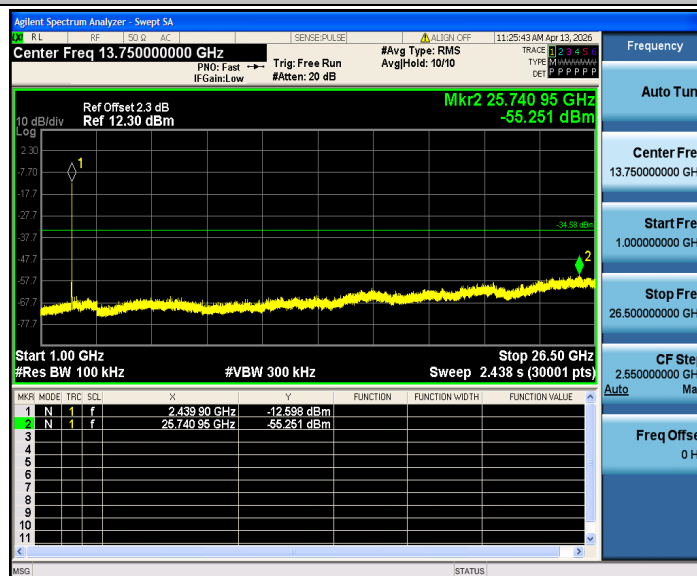
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



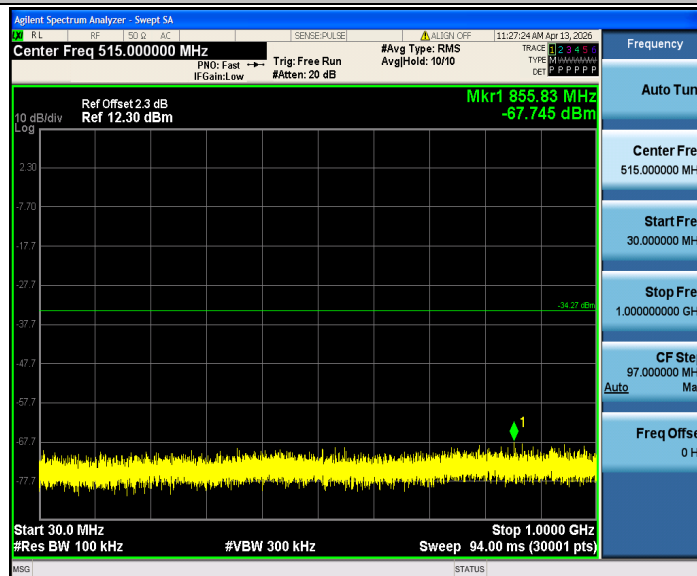
11G_Ant1_2437_1000~26500



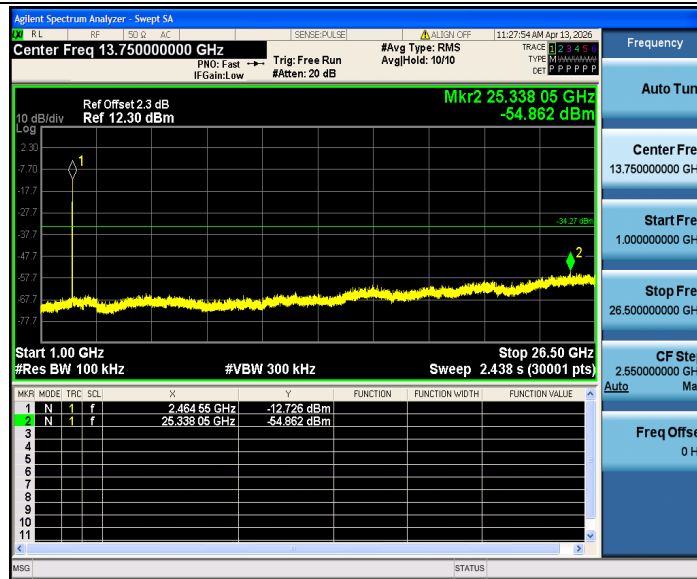
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



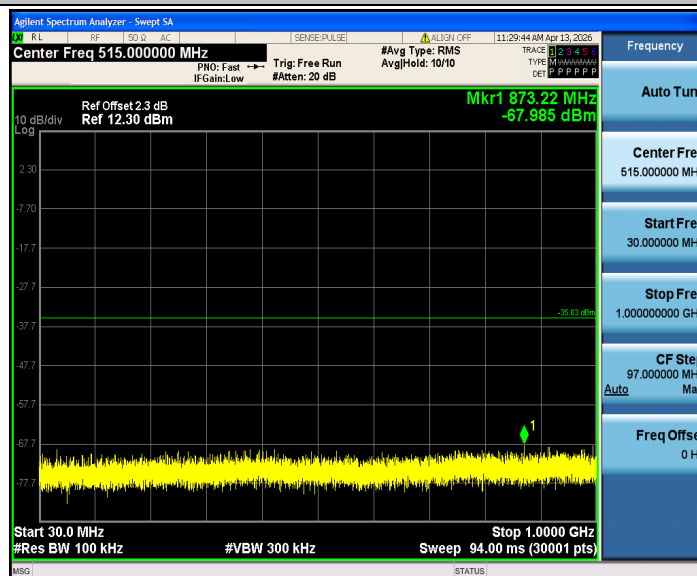
11G_Ant1_2462_1000~26500



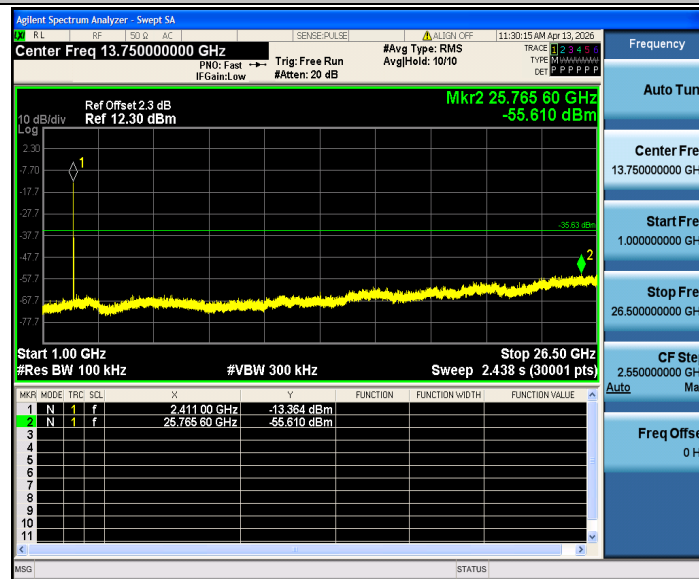
11N20SISO_Ant1_2412_0~Reference



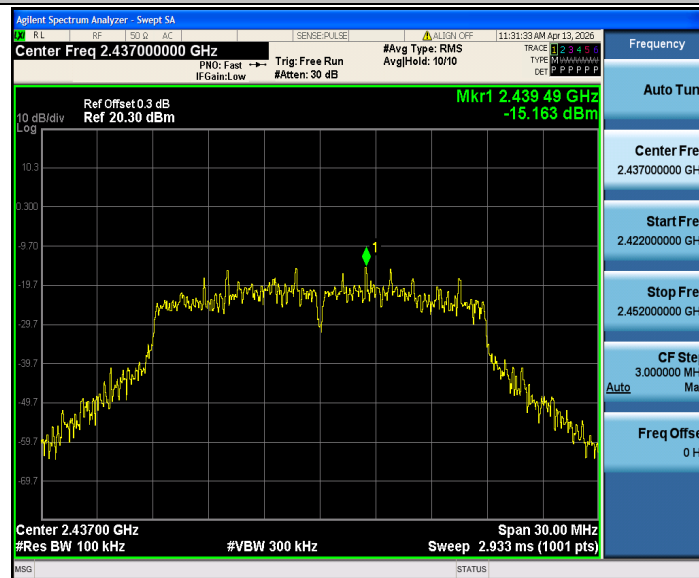
11N20SISO_Ant1_2412_30~1000



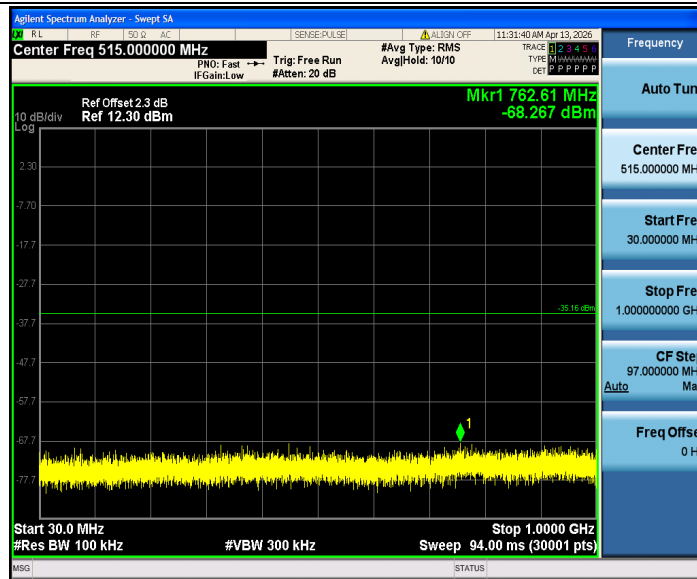
11N20SISO_Ant1_2412_1000~26500



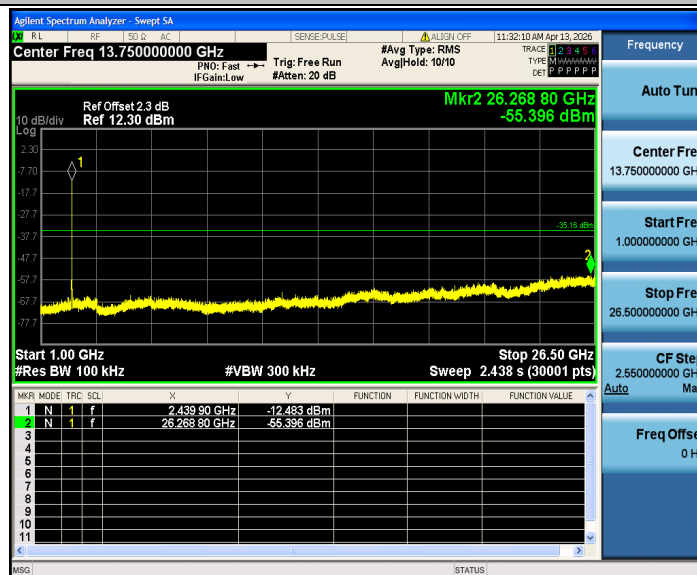
11N20SISO_Ant1_2437_0~Reference



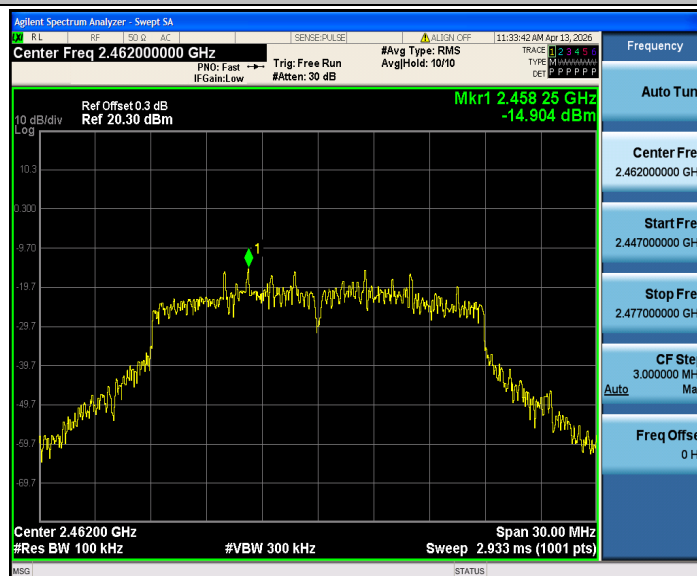
11N20SISO_Ant1_2437_30~1000



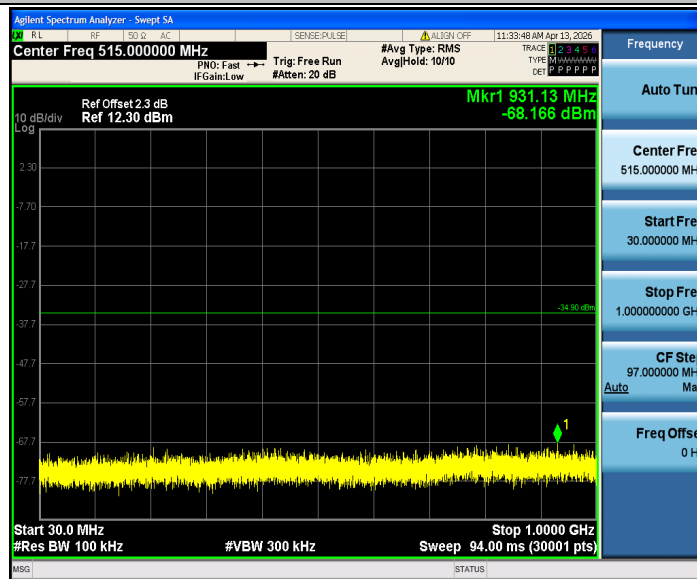
11N20SISO_Ant1_2437_1000~26500



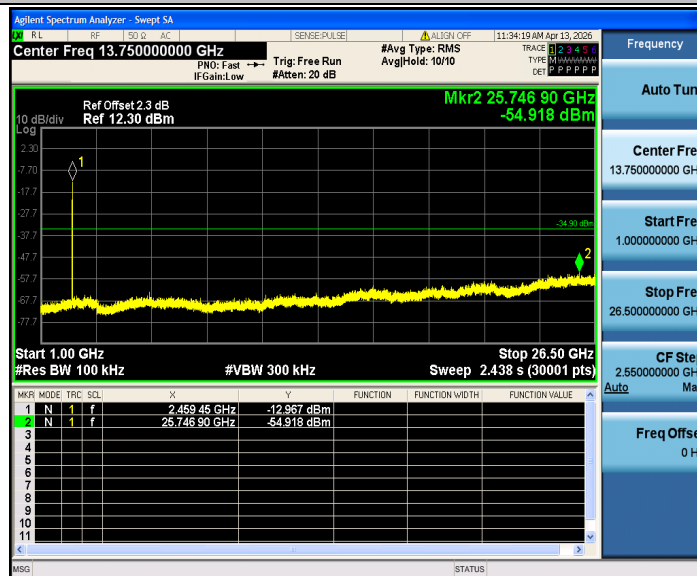
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



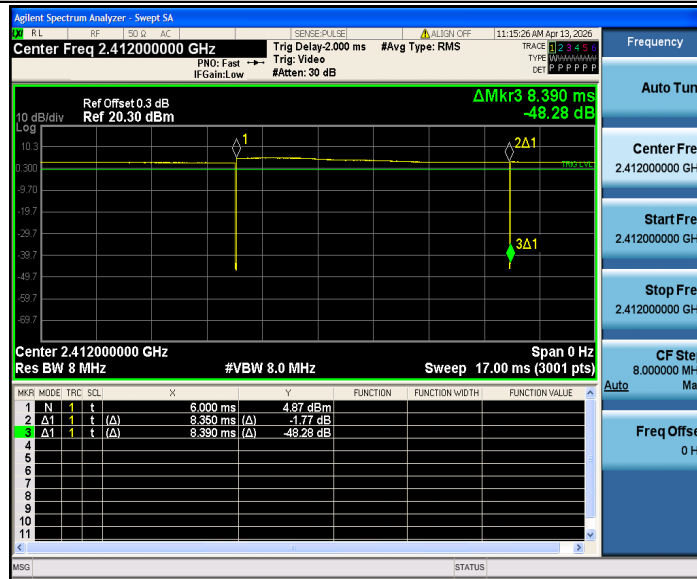
Appendix G: Duty Cycle

Test Result

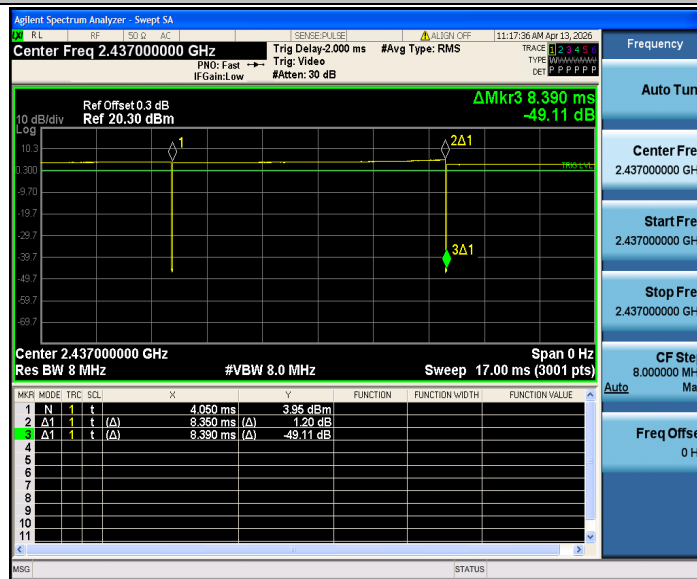
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor [dB]	T Factor [dB]
11B	Ant1	2412	8.35	8.39	99.52	0.02	0.12
		2437	8.35	8.39	99.52	0.02	0.12
		2462	8.35	8.39	99.52	0.02	0.12
11G	Ant1	2412	0.15	0.20	75.00	1.25	6.67
		2437	0.14	0.19	73.68	1.33	7.14
		2462	0.15	0.20	75.00	1.25	6.67
11N20SISO	Ant1	2412	0.18	0.23	78.26	1.06	5.56
		2437	0.18	0.23	78.26	1.06	5.56
		2462	0.17	0.22	77.27	1.12	5.88

Test Graphs

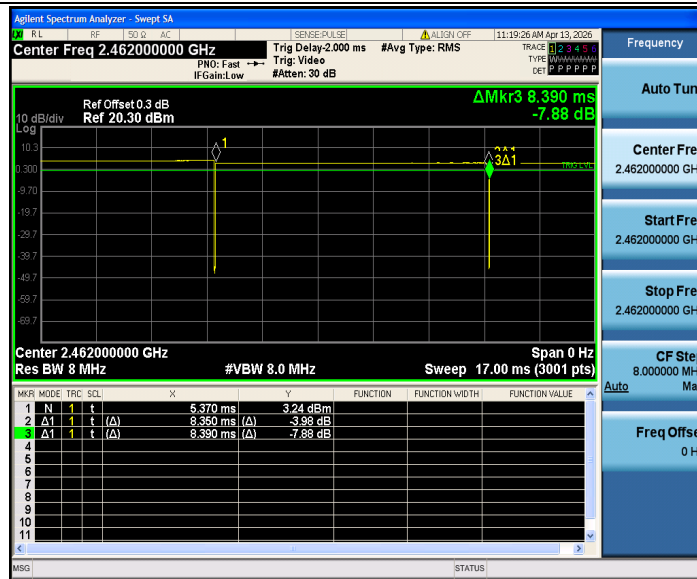
11B_Ant1_2412



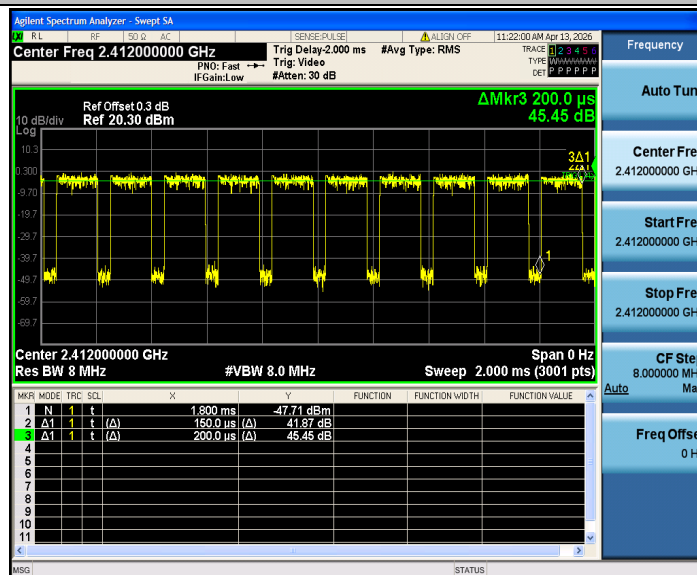
11B_Ant1_2437



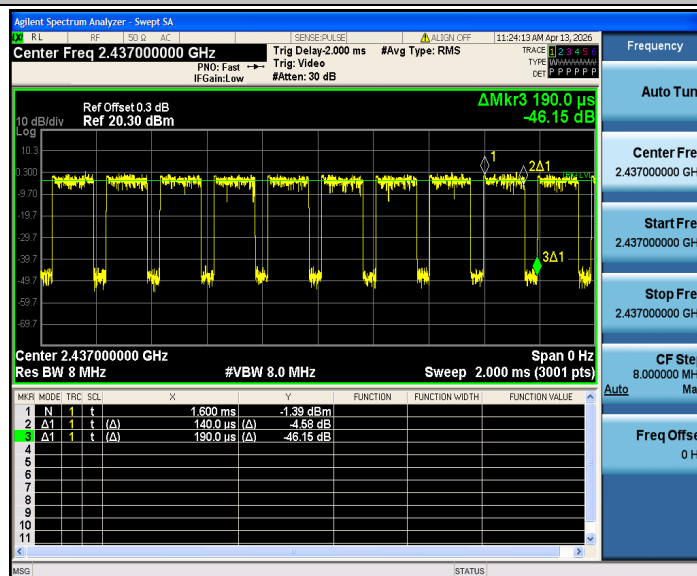
11B_Ant1_2462



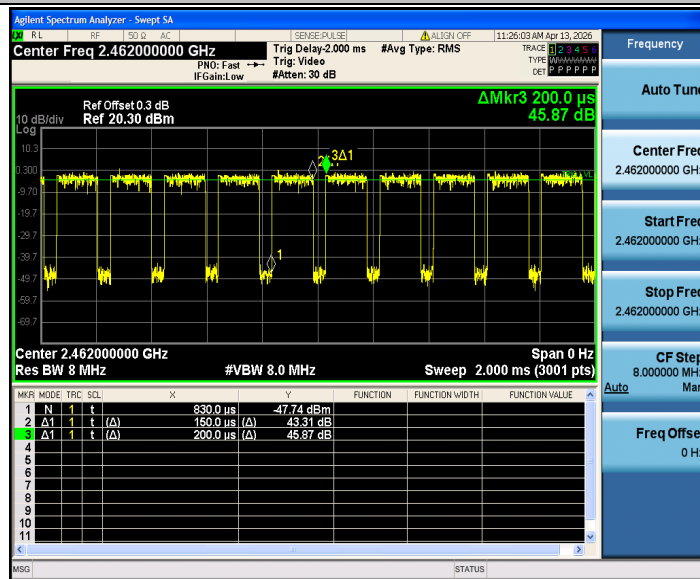
11G_Ant1_2412



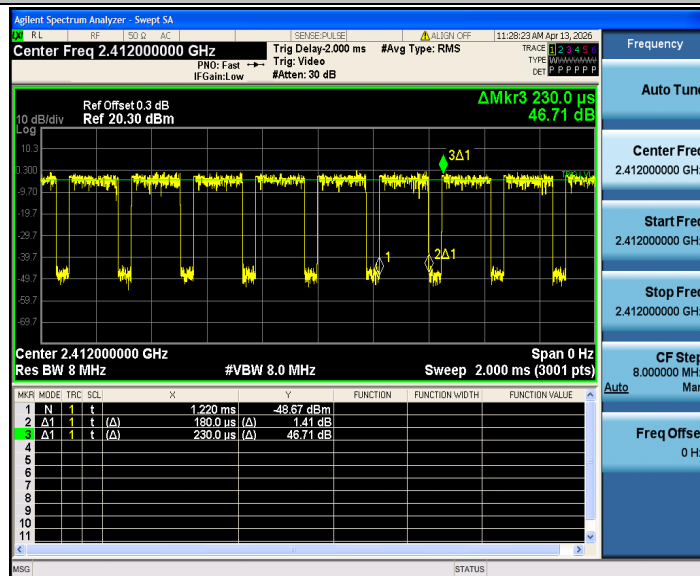
11G_Ant1_2437



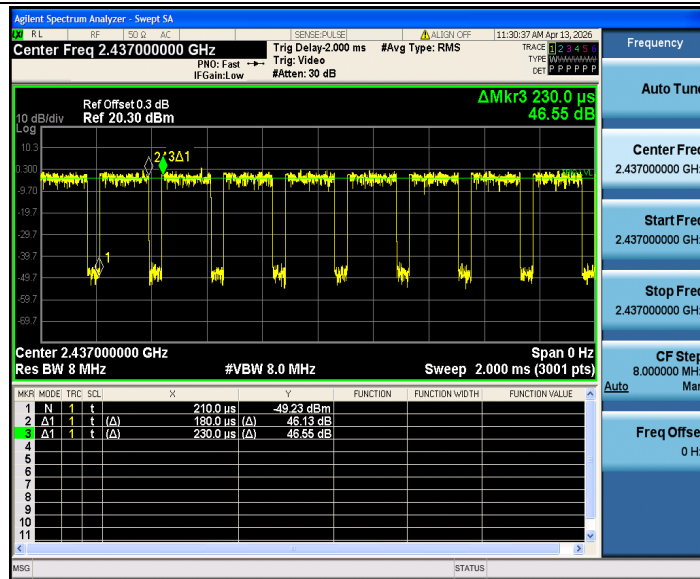
11G_Ant1_2462



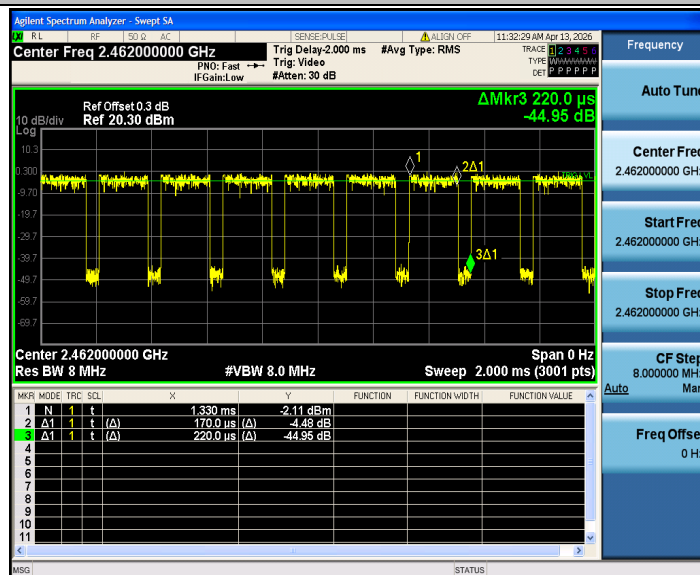
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix H: Emissions in Restricted Bands

Test Result

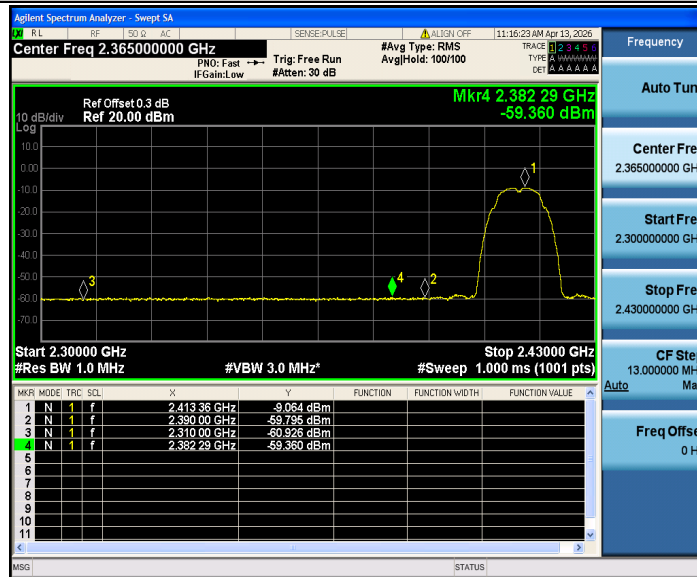
TestMode	Antenna	ChName	Frequency[MHz]	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-60.93	2.00	0.02	36.29	≤54	PASS
				AV	2382.290	-59.36	2.00	0.02	37.86	≤54	PASS
				AV	2390.000	-59.8	2.00	0.02	37.42	≤54	PASS
				Peak	2310.000	-52.7	2.00	0.00	44.50	≤74	PASS
				Peak	2355.510	-49.23	2.00	0.00	47.97	≤74	PASS
				Peak	2390.000	-50.28	2.00	0.00	46.92	≤74	PASS
		High	2462	AV	2483.500	-59.84	2.00	0.02	37.38	≤54	PASS
				AV	2497.530	-59.03	2.00	0.02	38.19	≤54	PASS
				AV	2500.000	-59.39	2.00	0.02	37.83	≤54	PASS
				Peak	2483.500	-50.47	2.00	0.00	46.73	≤74	PASS
				Peak	2483.890	-49.21	2.00	0.00	47.99	≤74	PASS
				Peak	2500.000	-51.06	2.00	0.00	46.14	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-59.99	2.00	1.25	38.46	≤54	PASS
				AV	2357.070	-59.33	2.00	1.25	39.12	≤54	PASS
				AV	2390.000	-60.11	2.00	1.25	38.34	≤54	PASS
				Peak	2310.000	-52.18	2.00	0.00	45.02	≤74	PASS
				Peak	2326.130	-49.3	2.00	0.00	47.90	≤74	PASS
				Peak	2390.000	-51.8	2.00	0.00	45.40	≤74	PASS
		High	2462	AV	2483.500	-60.32	2.00	1.25	38.13	≤54	PASS
				AV	2496.980	-59.04	2.00	1.25	39.41	≤54	PASS
				AV	2500.000	-59.88	2.00	1.25	38.57	≤54	PASS
				Peak	2483.500	-51.77	2.00	0.00	45.43	≤74	PASS
				Peak	2492.580	-48.6	2.00	0.00	48.60	≤74	PASS
				Peak	2500.000	-52.17	2.00	0.00	45.03	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-60.15	2.00	1.06	38.11	≤54	PASS
				AV	2365.000	-59.37	2.00	1.06	38.89	≤54	PASS
				AV	2390.000	-59.72	2.00	1.06	38.54	≤54	PASS
				Peak	2310.000	-52.63	2.00	0.00	44.57	≤74	PASS
				Peak	2318.590	-49.08	2.00	0.00	48.12	≤74	PASS
				Peak	2390.000	-52.57	2.00	0.00	44.63	≤74	PASS
		High	2462	AV	2483.500	-59.89	2.00	1.12	38.43	≤54	PASS
				AV	2491.480	-58.89	2.00	1.12	39.43	≤54	PASS
				AV	2500.000	-59.71	2.00	1.12	38.61	≤54	PASS
				Peak	2483.500	-52.23	2.00	0.00	44.97	≤74	PASS
				Peak	2490.710	-49.3	2.00	0.00	47.90	≤74	PASS
				Peak	2500.000	-51.08	2.00	0.00	46.12	≤74	PASS

Note:

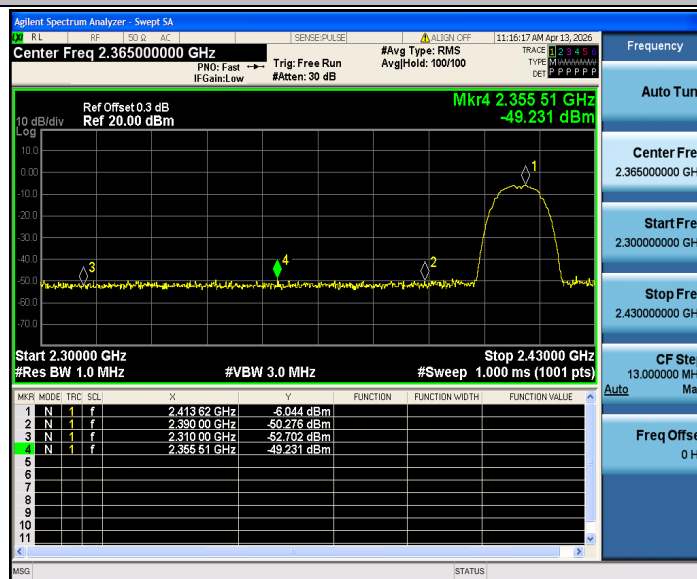
The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

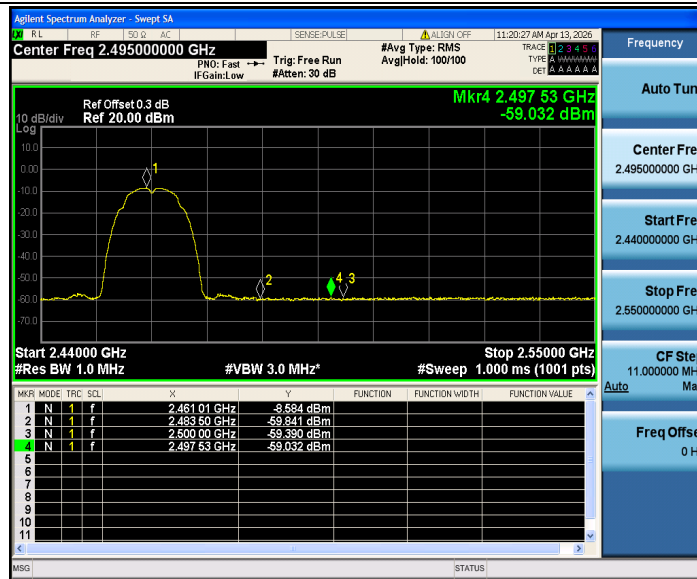
11B_Ant1_Low_2412_AV



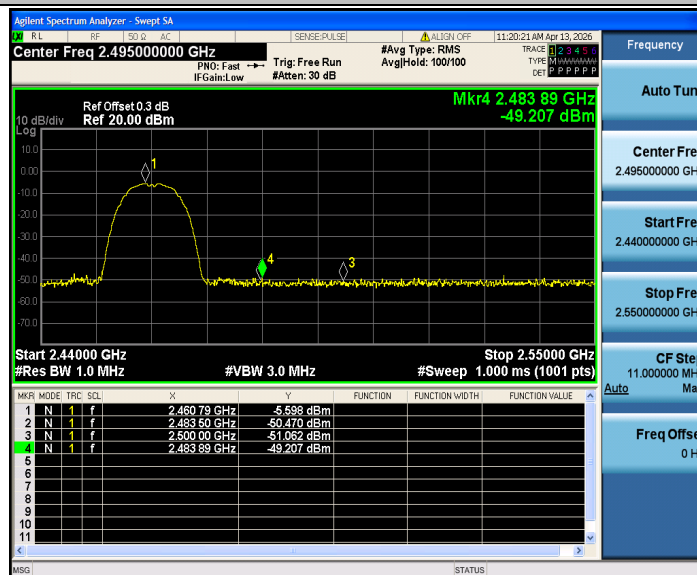
11B_Ant1_Low_2412_Peak



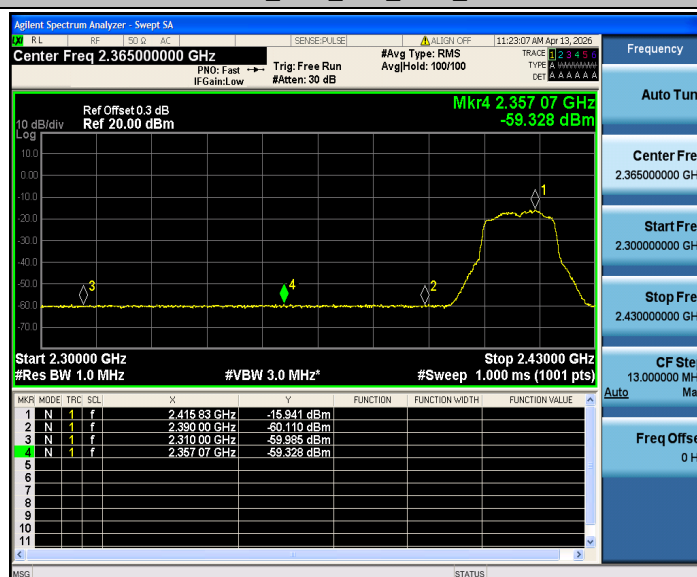
11B_Ant1_High_2462_AV



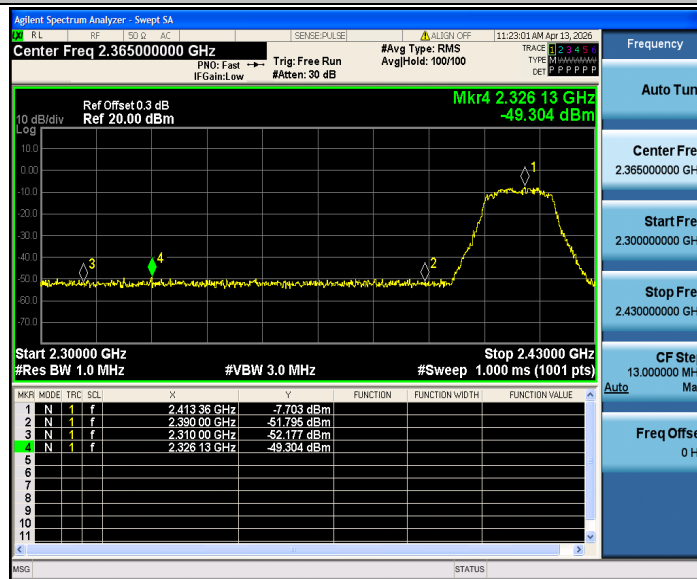
11B_Ant1_High_2462_Peak



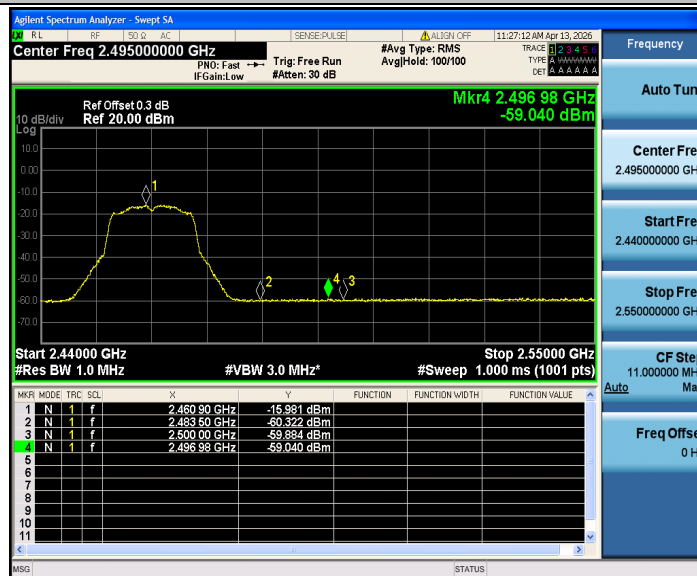
11G_Ant1_Low_2412_AV



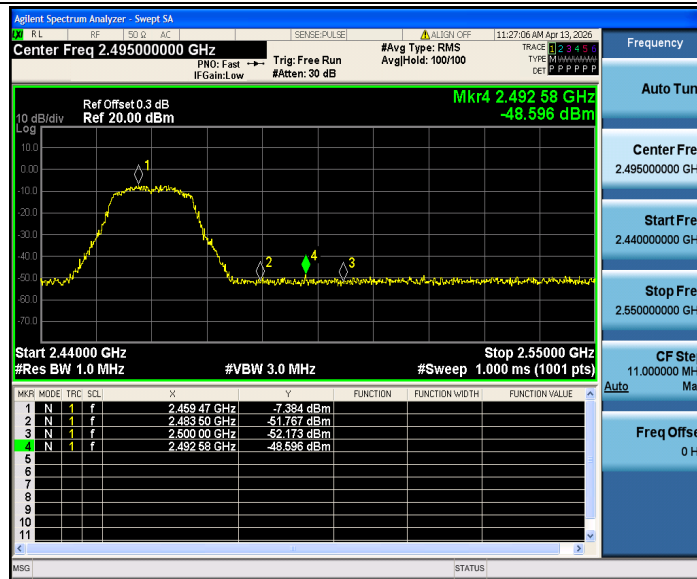
11G_Ant1_Low_2412_Peak



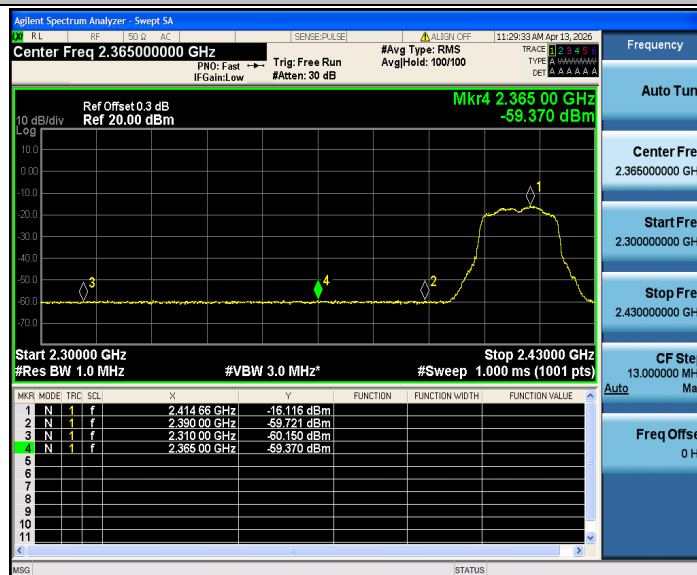
11G_Ant1_High_2462_AV



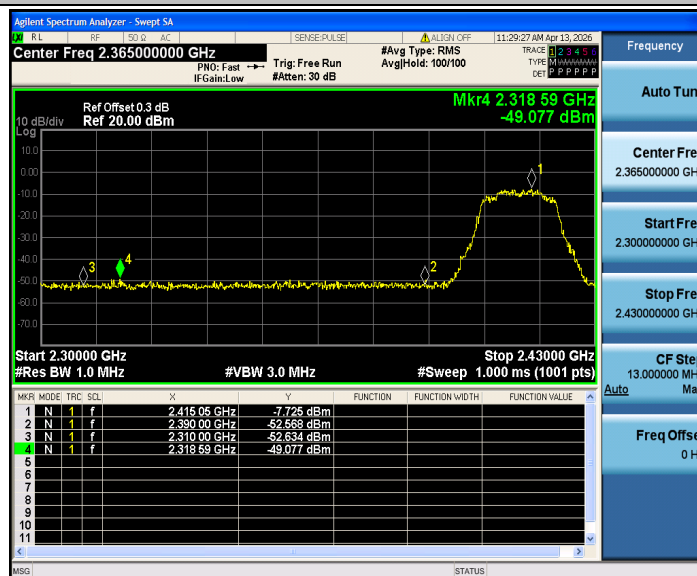
11G_Ant1_High_2462_Peak



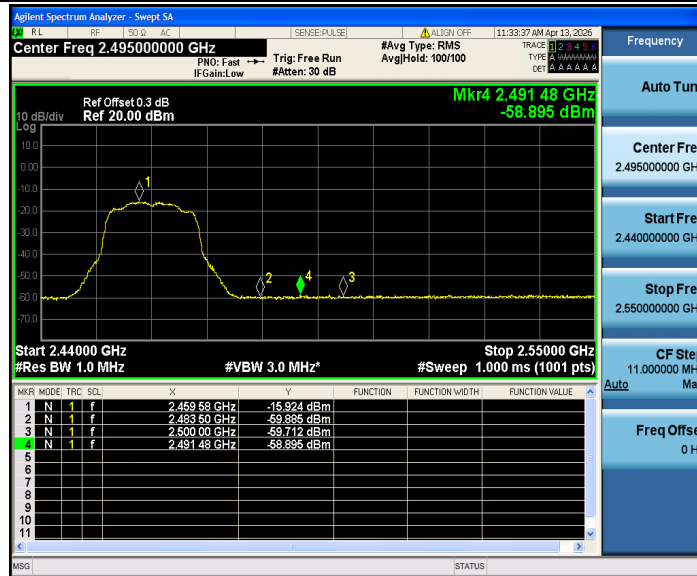
11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak

