

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2AZ2R-M6

Company : Shenzhen USEER Robotics Co.,Ltd.

EUT : Robotic Vacuum Cleaner

Model Number : M6

Report No. : CTA25092202302

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	10.200	2406.920	2417.120	0.5	PASS
		2437	10.200	2431.920	2442.120	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	15.760	2404.320	2420.080	0.5	PASS
		2437	15.920	2429.040	2444.960	0.5	PASS
		2462	15.840	2454.080	2469.920	0.5	PASS
11N20SISO	Ant1	2412	16.320	2403.720	2420.040	0.5	PASS
		2437	16.760	2428.440	2445.200	0.5	PASS
		2462	16.360	2453.640	2470.000	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



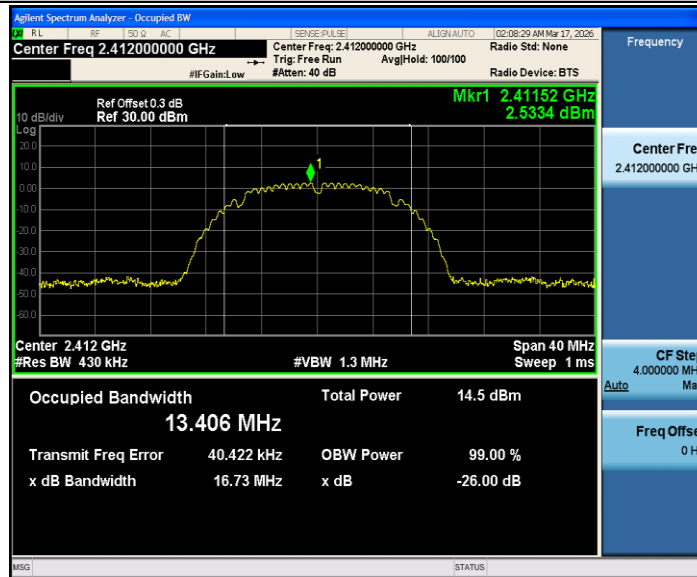
Appendix B: Occupied Channel Bandwidth

Test Result

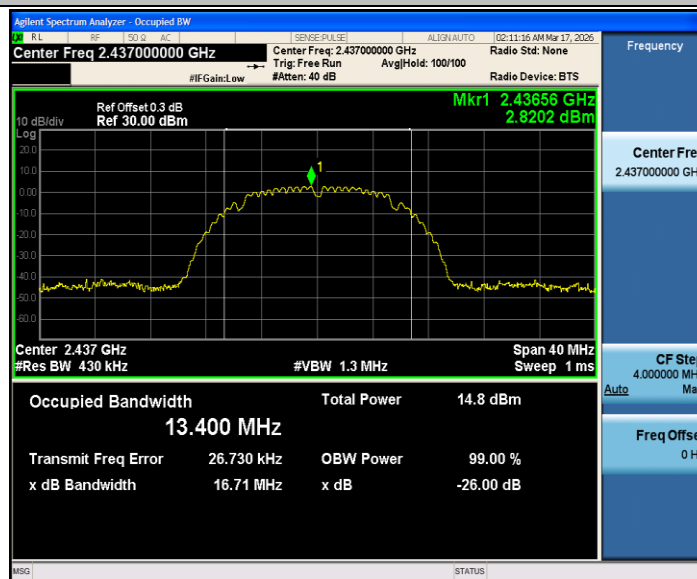
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.406	2405.3374	2418.7434	---	---
		2437	13.400	2430.3267	2443.7267	---	---
		2462	13.416	2455.3009	2468.7169	---	---
11G	Ant1	2412	16.879	2403.6339	2420.5129	---	---
		2437	16.954	2428.5685	2445.5225	---	---
		2462	16.882	2453.5603	2470.4423	---	---
11N20SISO	Ant1	2412	17.918	2403.0933	2421.0113	---	---
		2437	17.953	2428.0241	2445.9771	---	---
		2462	17.891	2453.0685	2470.9595	---	---

Test Graphs

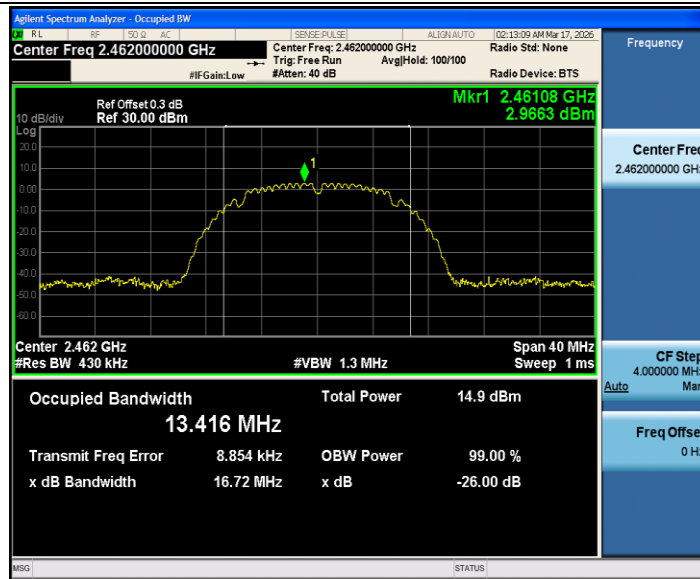
11B_Ant1_2412



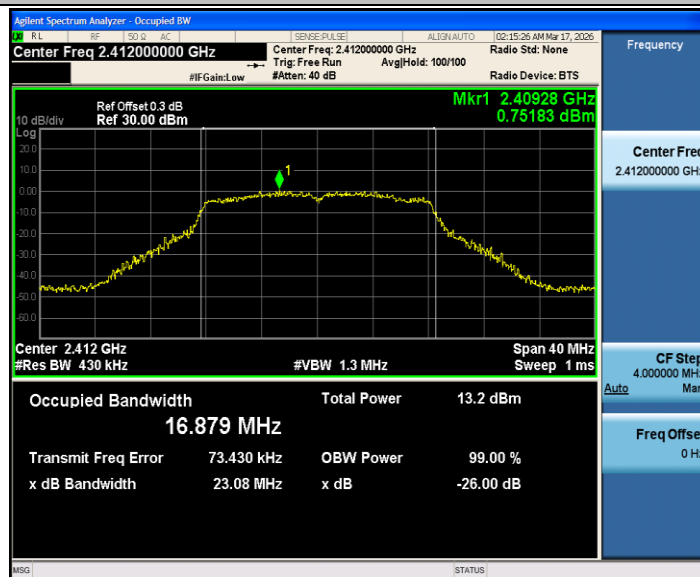
11B_Ant1_2437



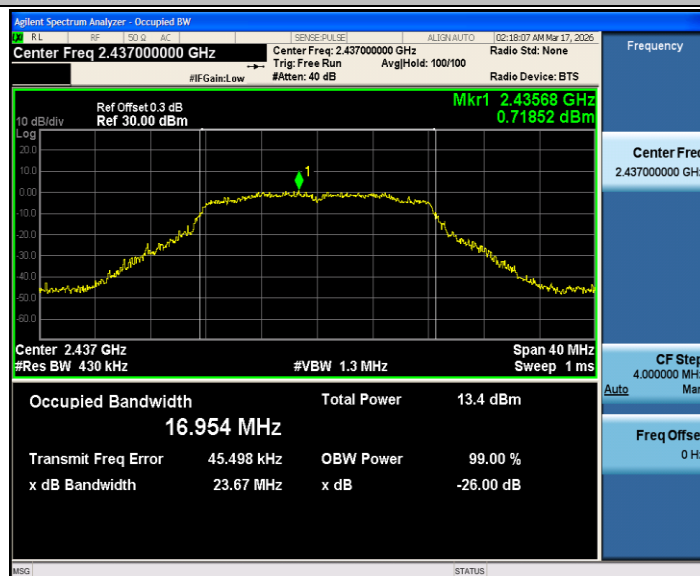
11B_Ant1_2462



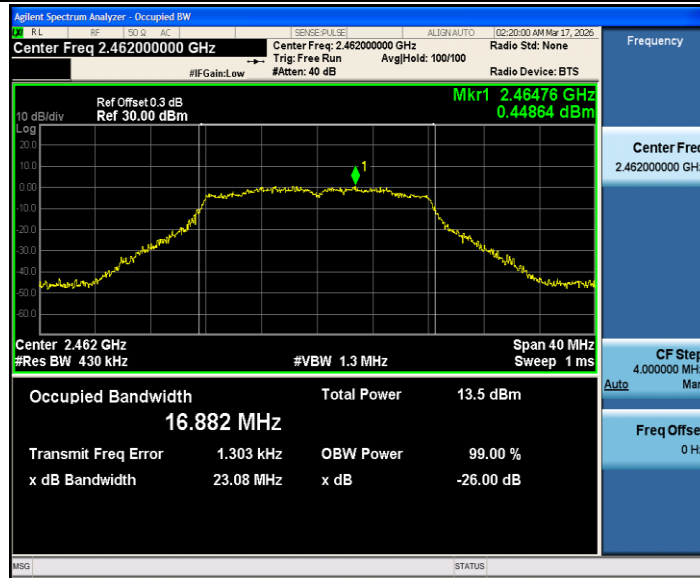
11G_Ant1_2412



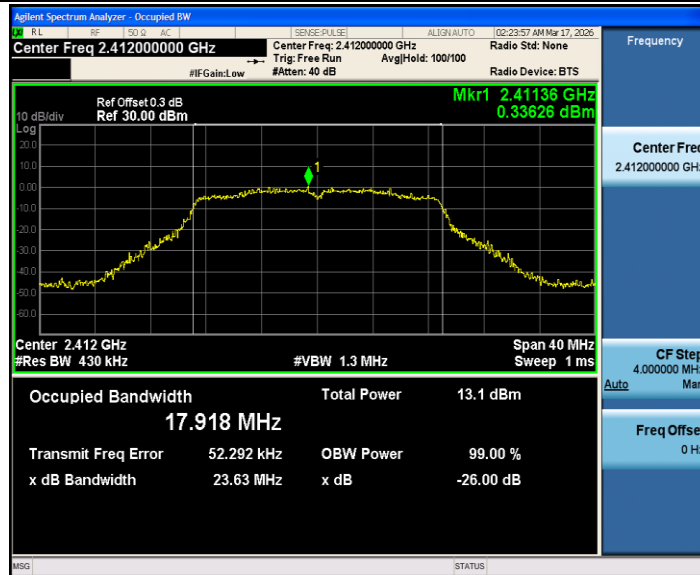
11G_Ant1_2437



11G_Ant1_2462



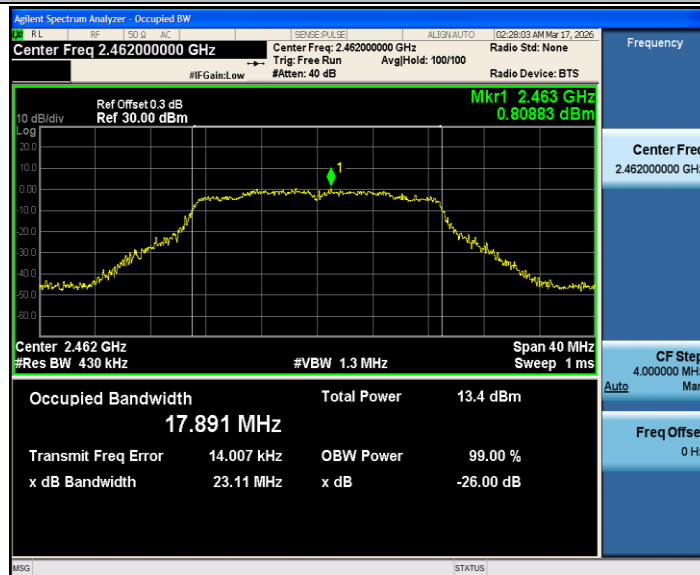
11N20SISO_Ant1_2412



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	14.19	≤30.00	PASS
		2437	14.36	≤30.00	PASS
		2462	14.54	≤30.00	PASS
11G	Ant1	2412	14.06	≤30.00	PASS
		2437	14.26	≤30.00	PASS
		2462	14.43	≤30.00	PASS
11N20SISO	Ant1	2412	13.93	≤30.00	PASS
		2437	14.09	≤30.00	PASS
		2462	14.13	≤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	-12.55	≤8.00	PASS
		2437	-11.78	≤8.00	PASS
		2462	-10.88	≤8.00	PASS
11G	Ant1	2412	-17.90	≤8.00	PASS
		2437	-17.24	≤8.00	PASS
		2462	-16.80	≤8.00	PASS
11N20SISO	Ant1	2412	-15.65	≤8.00	PASS
		2437	-17.36	≤8.00	PASS
		2462	-16.89	≤8.00	PASS

Test Graphs

11B_Ant1_2412



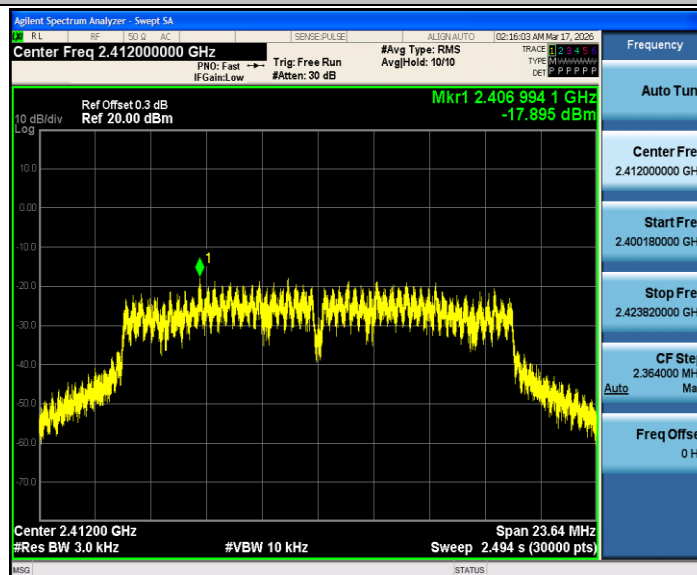
11B_Ant1_2437



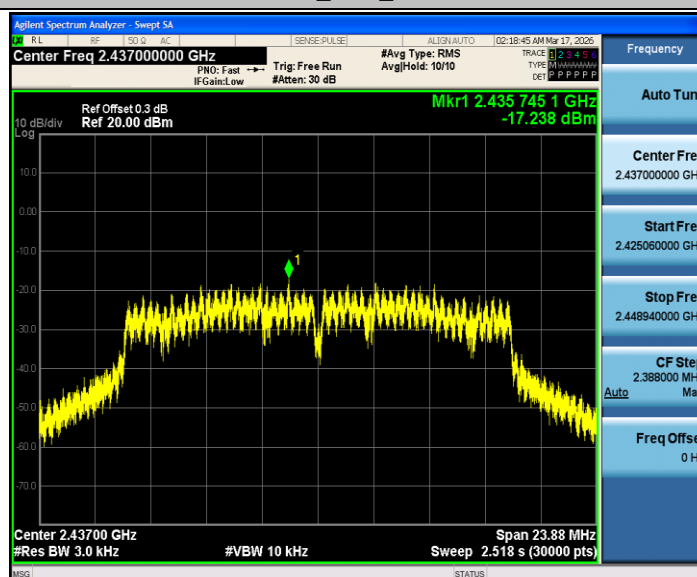
11B_Ant1_2462



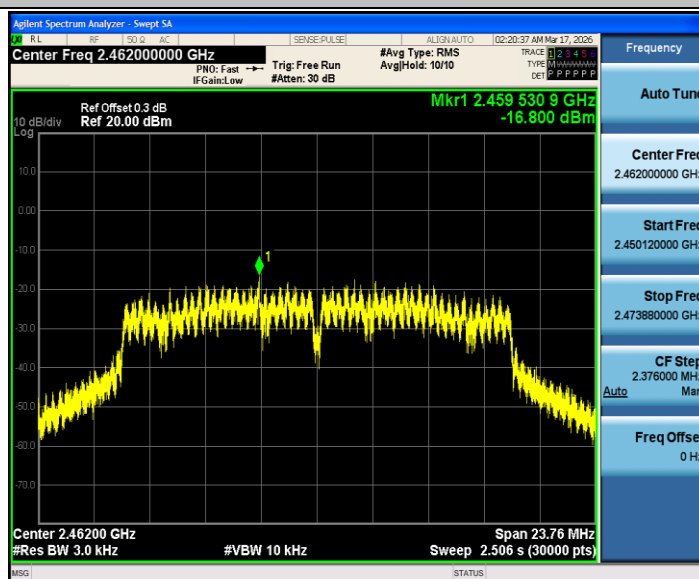
11G_Ant1_2412



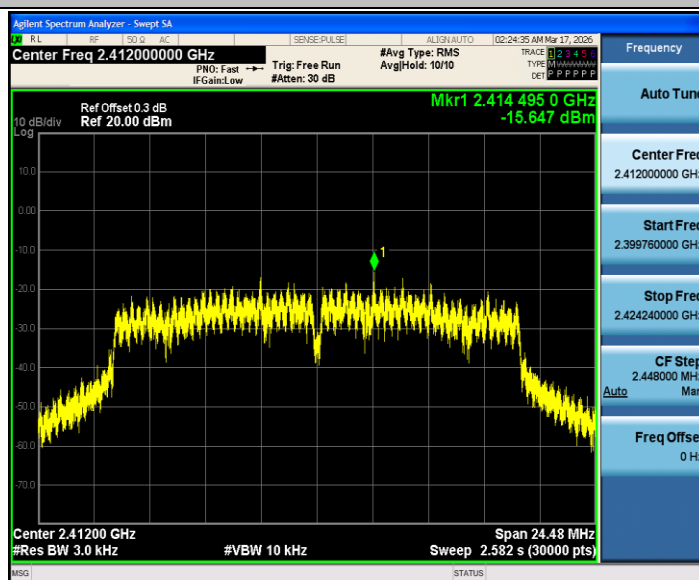
11G_Ant1_2437



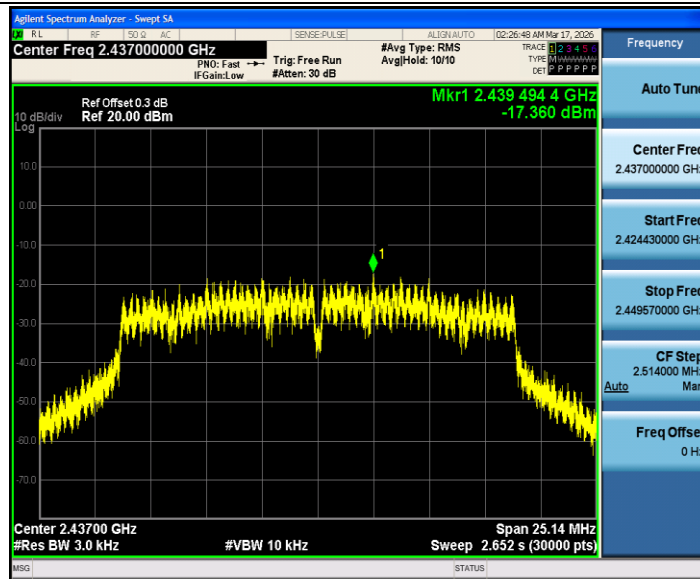
11G_Ant1_2462



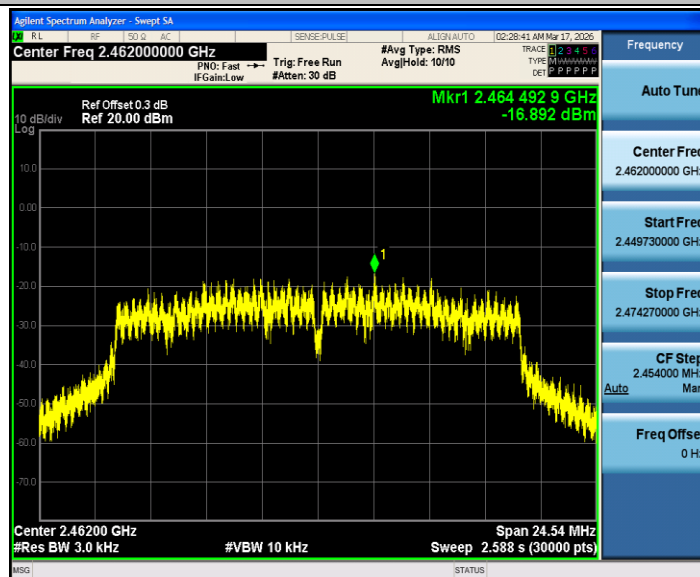
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



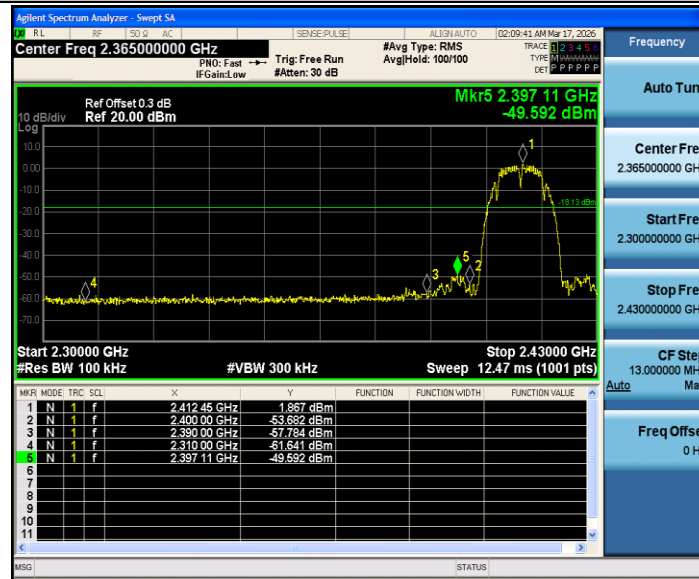
Appendix E: Band edge measurements

Test Result

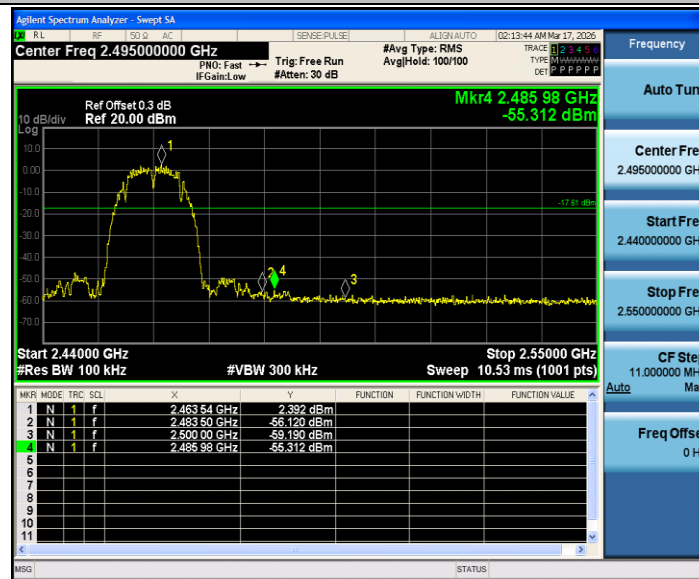
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.87	-49.59	≤-18.13	PASS
		High	2462	2.39	-55.31	≤-17.61	PASS
11G	Ant1	Low	2412	-2.27	-33.74	≤-22.27	PASS
		High	2462	-2.04	-57.34	≤-22.04	PASS
11N20SISO	Ant1	Low	2412	-2.51	-34.93	≤-22.51	PASS
		High	2462	-2.07	-57.79	≤-22.07	PASS

Test Graphs

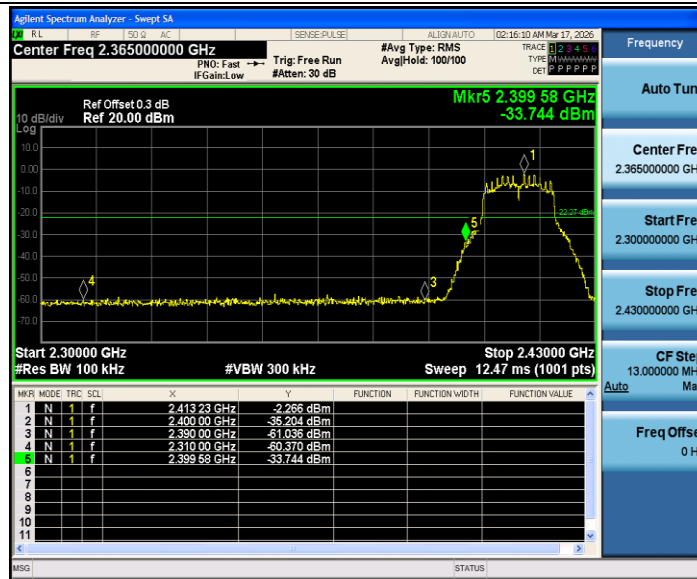
11B_Ant1_Low_2412



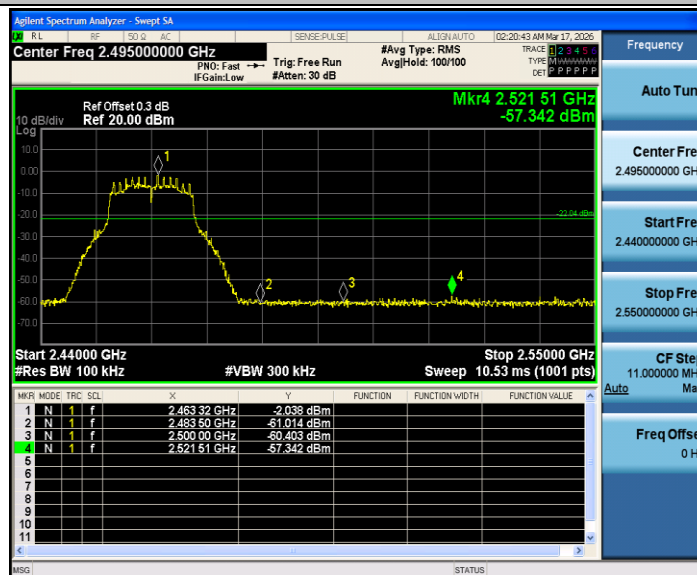
11B_Ant1_High_2462



11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

