

Case No. : <u>GTS20250326003-1-1</u>	
Ambient Condition: <u>22</u> °C, <u>49</u> %RH,	
Test Date: <u>2025.3.31</u>	Test Engineer: <u>Evan ouyang</u>

Appendix A.1: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.560	2407.480	2416.040	0.5	PASS
		2437	8.040	2433.000	2441.040	0.5	PASS
		2462	7.600	2458.440	2466.040	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.280	2428.880	2445.160	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.200	2420.840	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.560	2453.240	2470.800	0.5	PASS
11N40SISO	Ant1	2422	36.000	2404.160	2440.160	0.5	PASS
		2437	35.920	2419.240	2455.160	0.5	PASS
		2452	36.000	2434.160	2470.160	0.5	PASS

Test Graphs



11B_Ant1_2437

Frequency

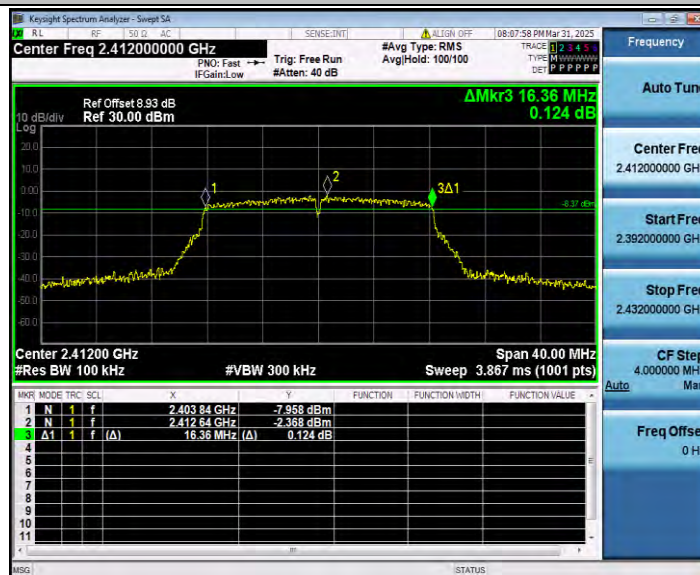
Auto Tune

Center Freq
2.43700000 GHzStart Freq
2.417000000 GHzStop Freq
2.457000000 GHzCF Step
4.000000 MHz
Auto ManFreq Offset
0 Hz

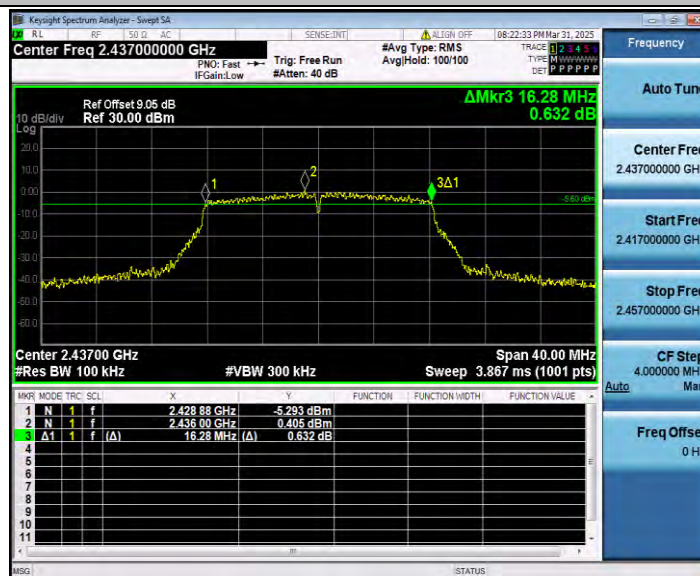
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



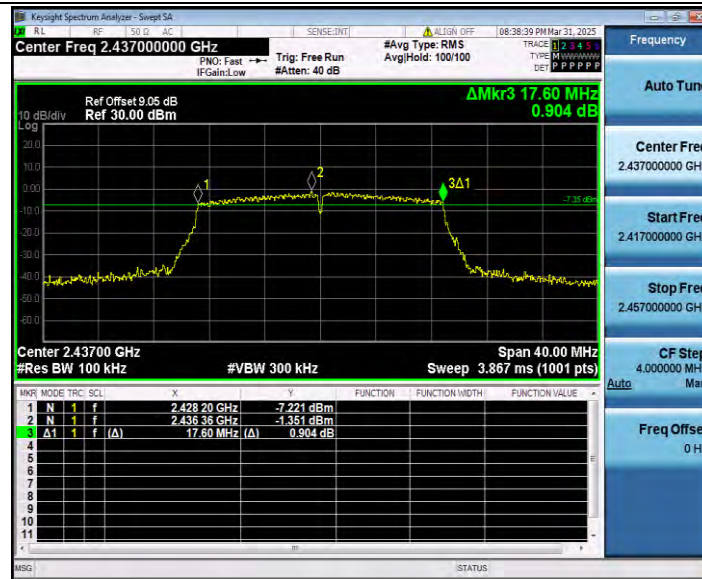
11G_Ant1_2462



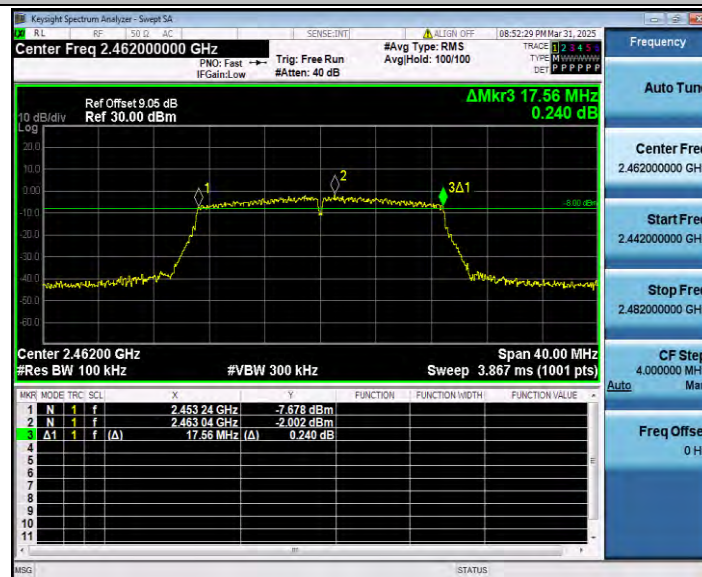
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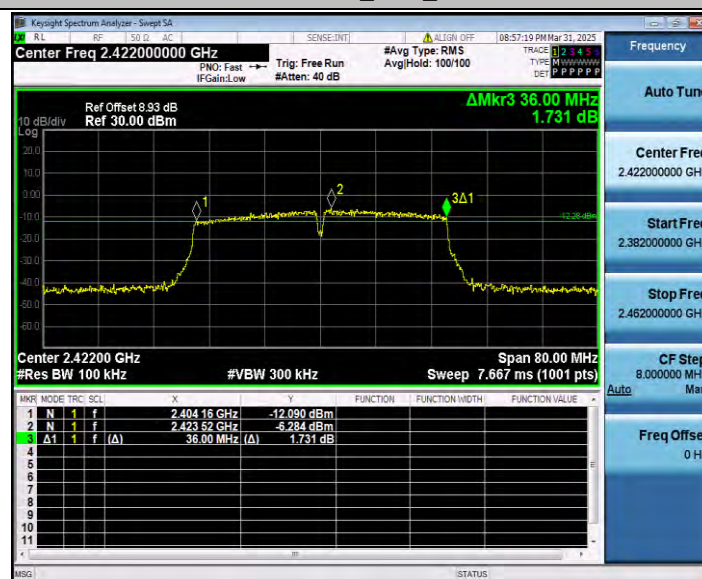
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



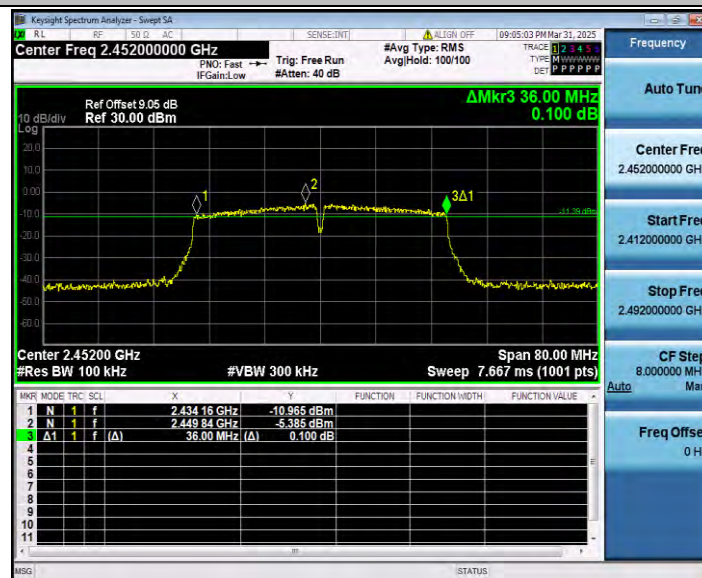
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

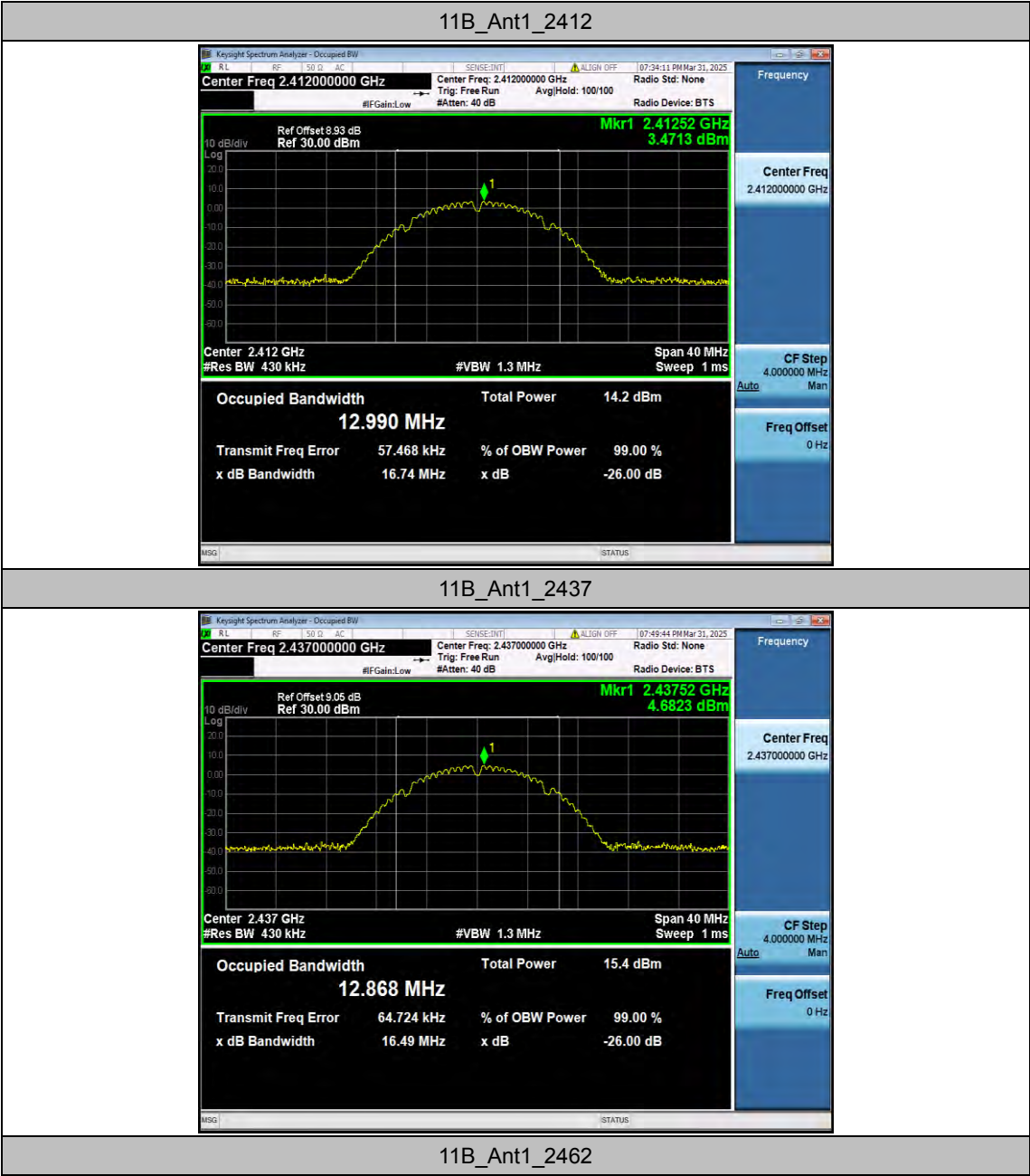


Appendix A.2: Occupied Channel Bandwidth

Test Result

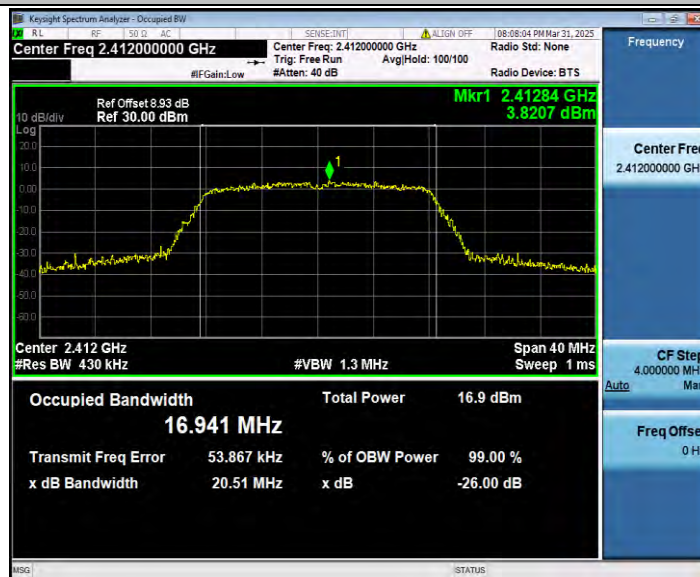
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.990	2405.5625	2418.5525	---	---
		2437	12.868	2430.6307	2443.4987	---	---
		2462	12.869	2455.6140	2468.4830	---	---
11G	Ant1	2412	16.941	2403.5834	2420.5244	---	---
		2437	16.833	2428.6759	2445.5089	---	---
		2462	16.730	2453.6975	2470.4275	---	---
11N20SISO	Ant1	2412	17.907	2403.0999	2421.0069	---	---
		2437	17.834	2428.1063	2445.9403	---	---
		2462	17.803	2453.0826	2470.8856	---	---
11N40SISO	Ant1	2422	36.267	2404.0692	2440.3362	---	---
		2437	36.099	2419.1022	2455.2012	---	---
		2452	36.094	2434.0575	2470.1515	---	---

Test Graphs

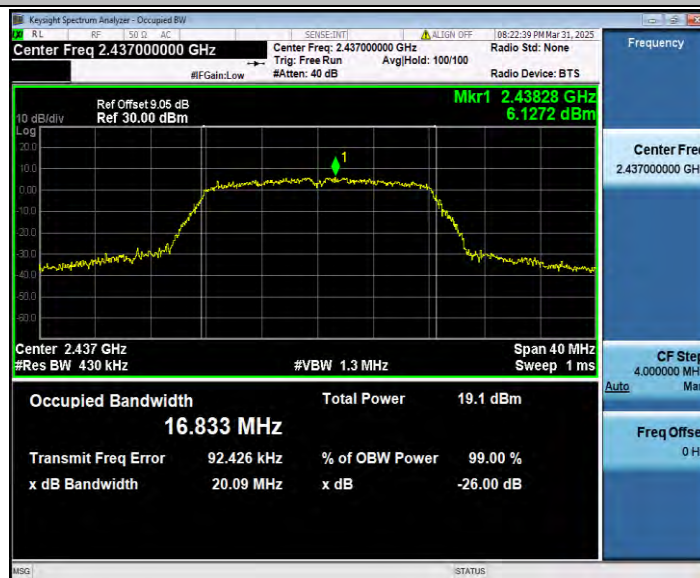




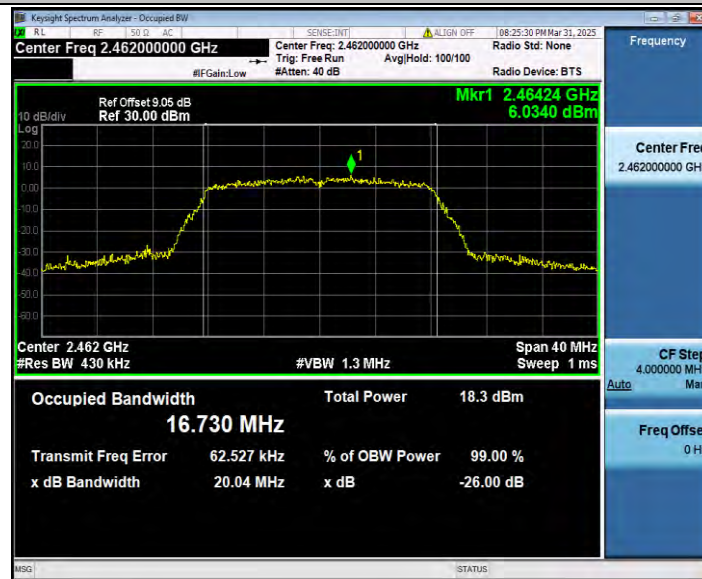
11G_Ant1_2412



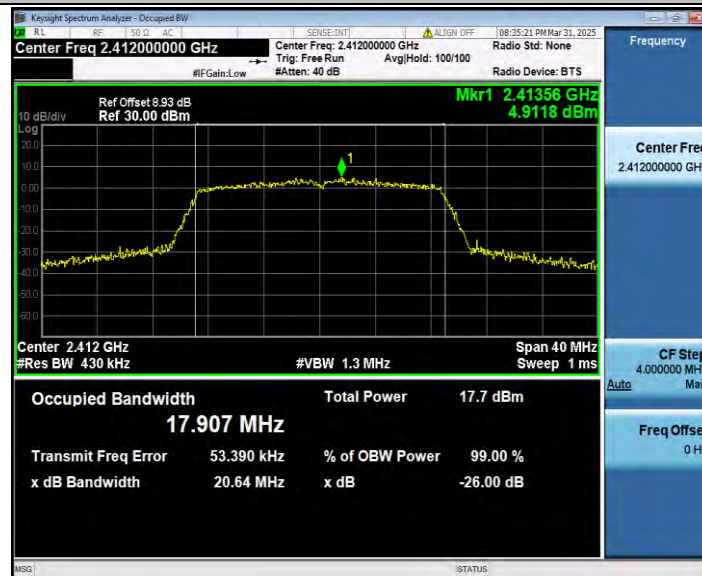
11G_Ant1_2437



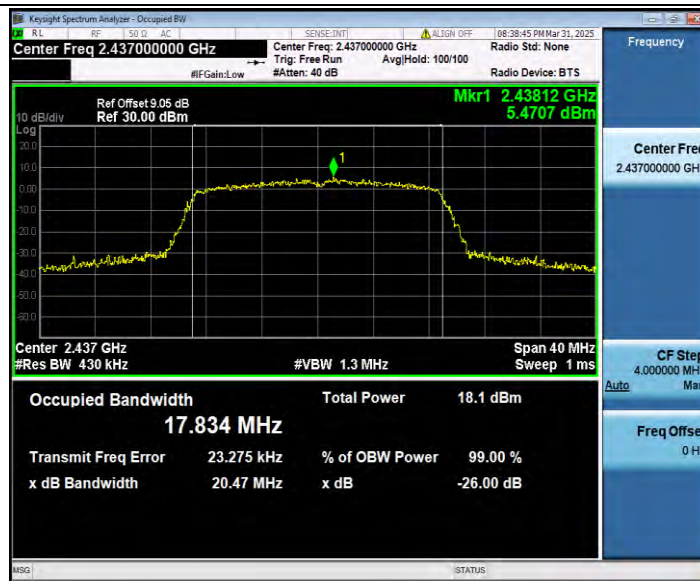
11G_Ant1_2462



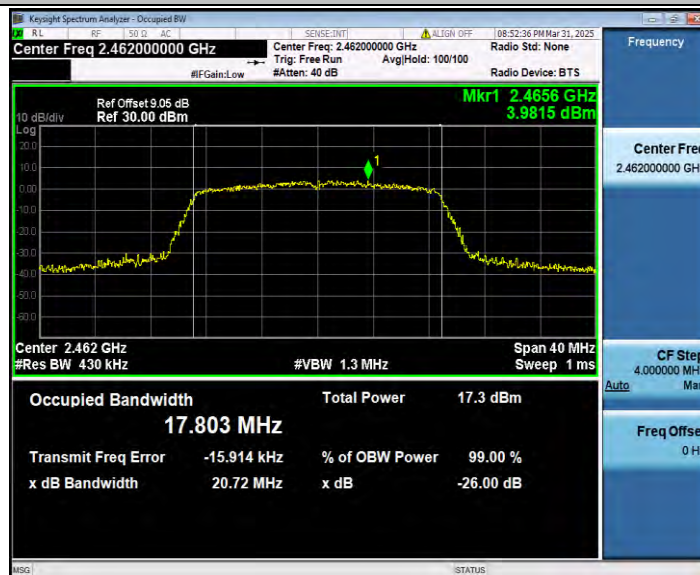
11N20SISO_Ant1_2412



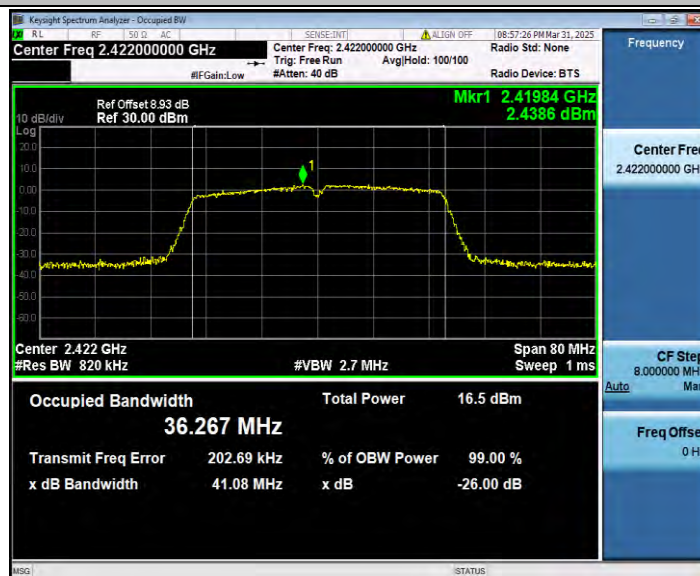
11N20SISO_Ant1_2437



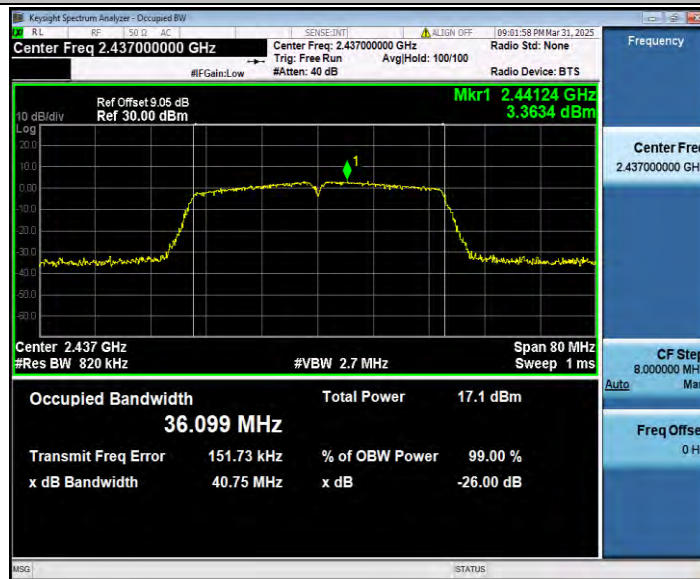
11N20SISO_Ant1_2462



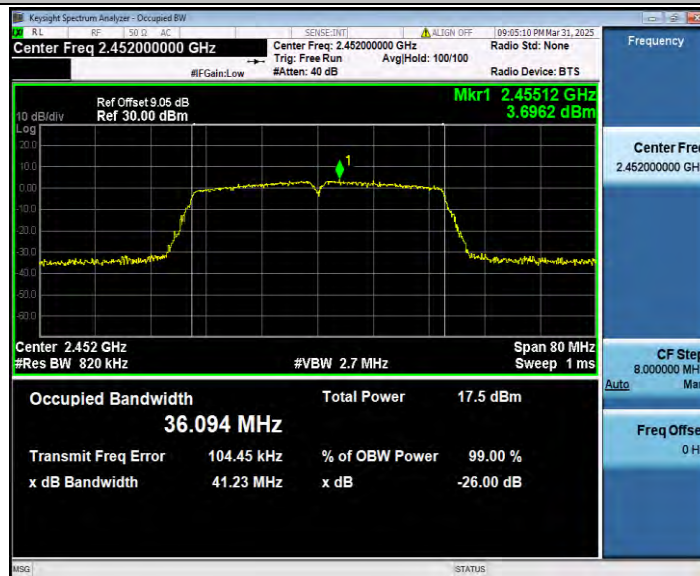
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix A.3: Maximum conducted output power

Test Mode	Antenna	Frequency[M Hz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.25	≤30.00	PASS
		2437	15.40	≤30.00	PASS
		2462	15.80	≤30.00	PASS
11G	Ant1	2412	18.04	≤30.00	PASS
		2437	20.29	≤30.00	PASS
		2462	19.44	≤30.00	PASS
11N20SISO	Ant1	2412	18.89	≤30.00	PASS
		2437	19.25	≤30.00	PASS
		2462	18.46	≤30.00	PASS
11N40SISO	Ant1	2422	16.90	≤30.00	PASS
		2437	17.45	≤30.00	PASS
		2452	17.90	≤30.00	PASS

Appendix A.4: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.04	≤8.00	PASS
		2437	-9.27	≤8.00	PASS
		2462	-9.03	≤8.00	PASS
11G	Ant1	2412	-13.88	≤8.00	PASS
		2437	-11.70	≤8.00	PASS
		2462	-11.58	≤8.00	PASS
11N20SISO	Ant1	2412	-12.52	≤8.00	PASS
		2437	-12.03	≤8.00	PASS
		2462	-12.85	≤8.00	PASS
11N40SISO	Ant1	2422	-17.94	≤8.00	PASS
		2437	-17.03	≤8.00	PASS
		2452	-16.71	≤8.00	PASS

Test Graphs

11B_Ant1_2412



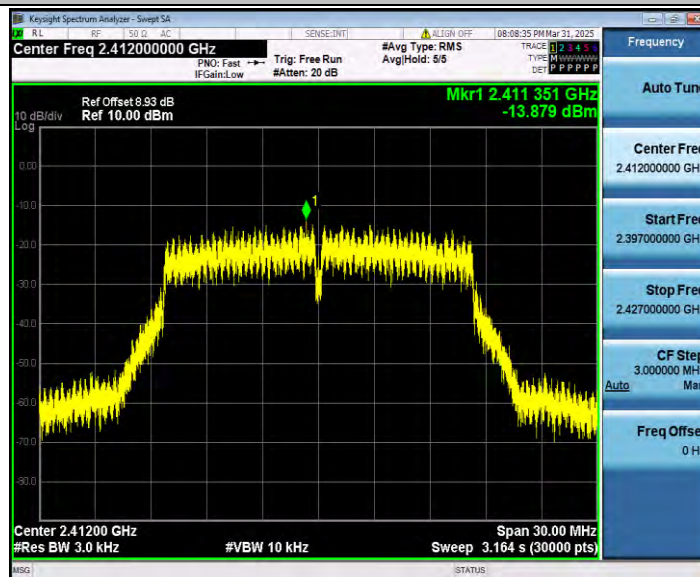
11B_Ant1_2437



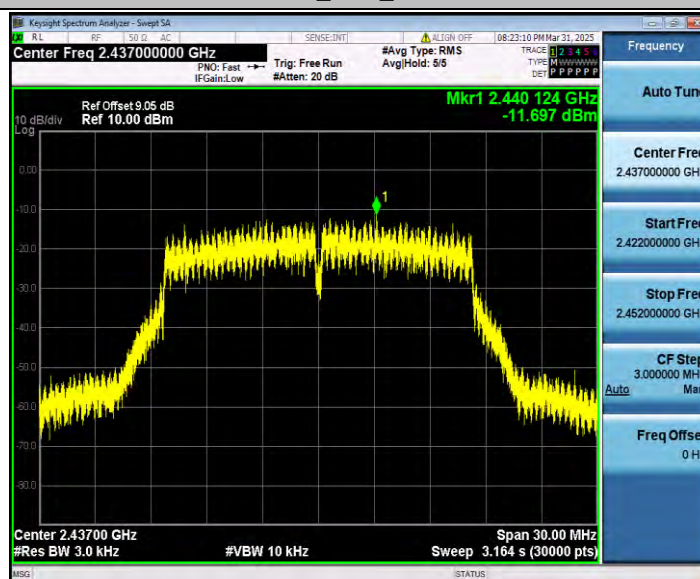
11B_Ant1_2462



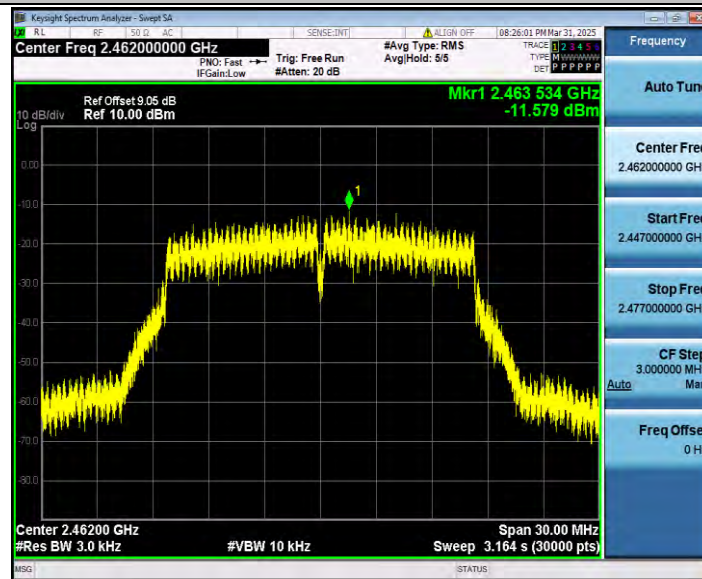
11G_Ant1_2412



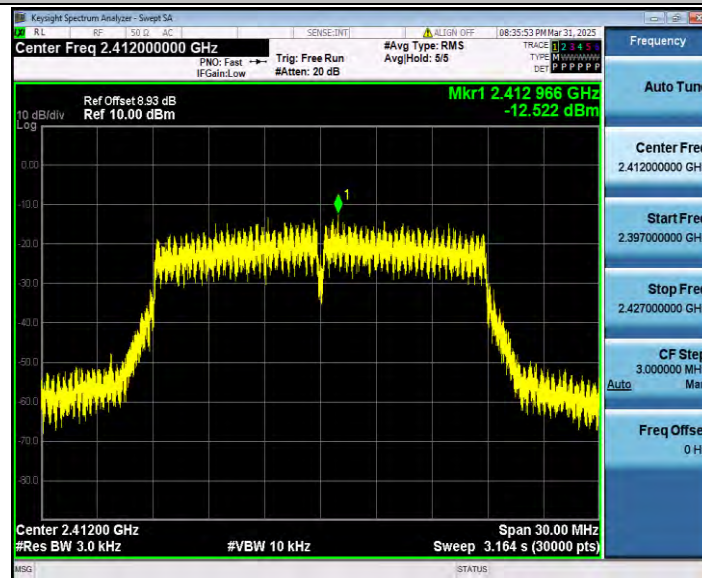
11G_Ant1_2437



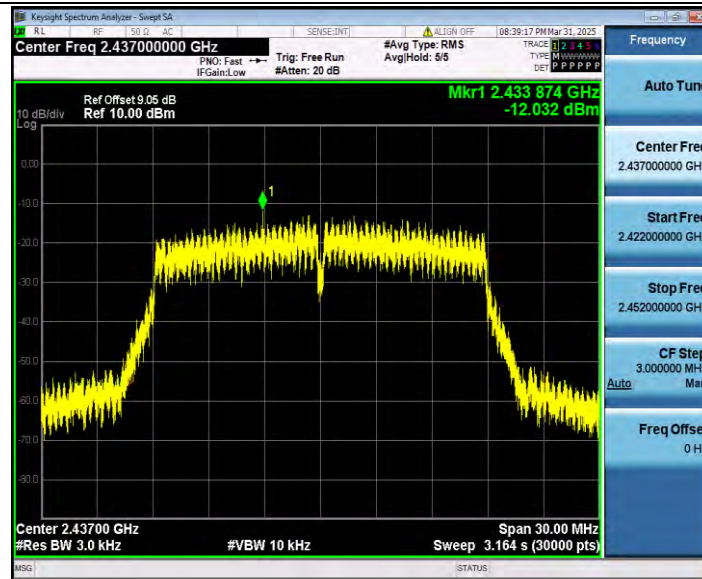
11G_Ant1_2462



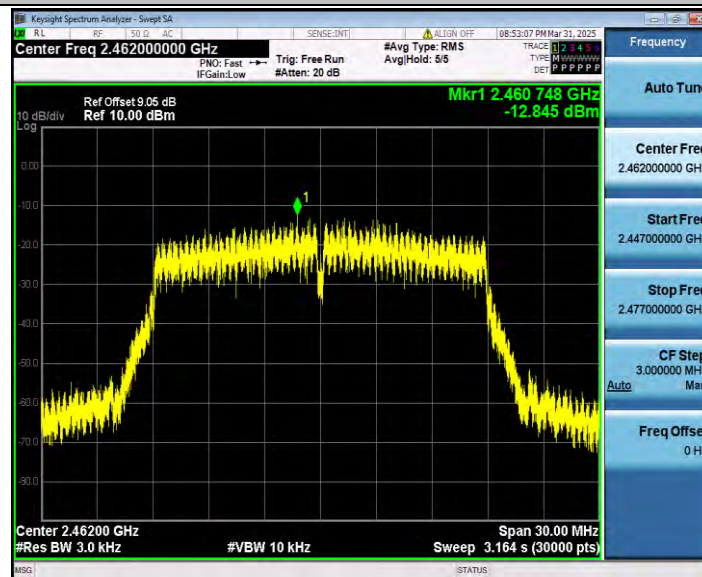
11N20SISO_Ant1_2412



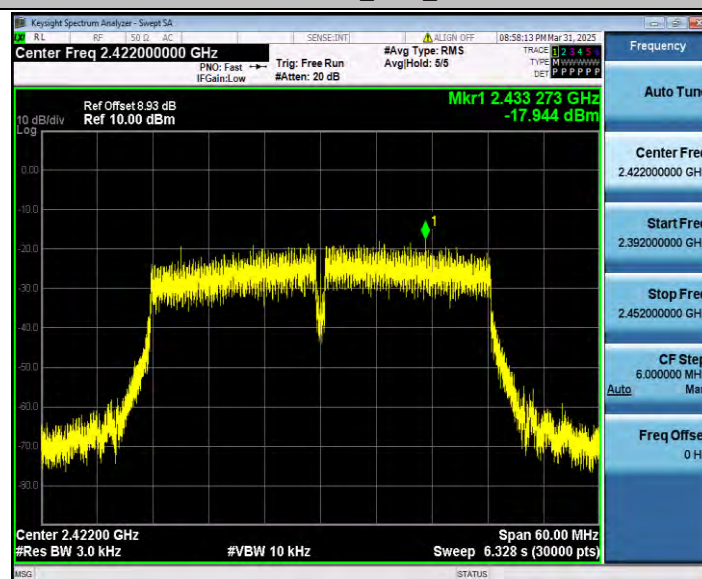
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



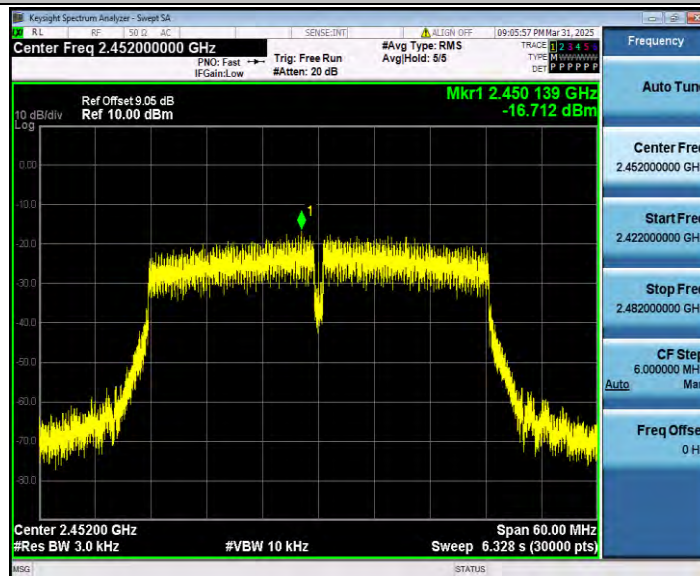
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix A.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.28	-45.59	≤ -16.72	PASS
		High	2462	4.85	-49.19	≤ -15.15	PASS
11G	Ant1	Low	2412	-2.19	-36.31	≤ -22.19	PASS
		High	2462	-0.90	-48.75	≤ -20.9	PASS
11N20SISO	Ant1	Low	2412	-1.72	-34.84	≤ -21.72	PASS
		High	2462	-1.86	-48.4	≤ -21.86	PASS
11N40SISO	Ant1	Low	2422	-6.49	-42.19	≤ -26.49	PASS
		High	2452	-5.33	-48.22	≤ -25.33	PASS

Test Graphs



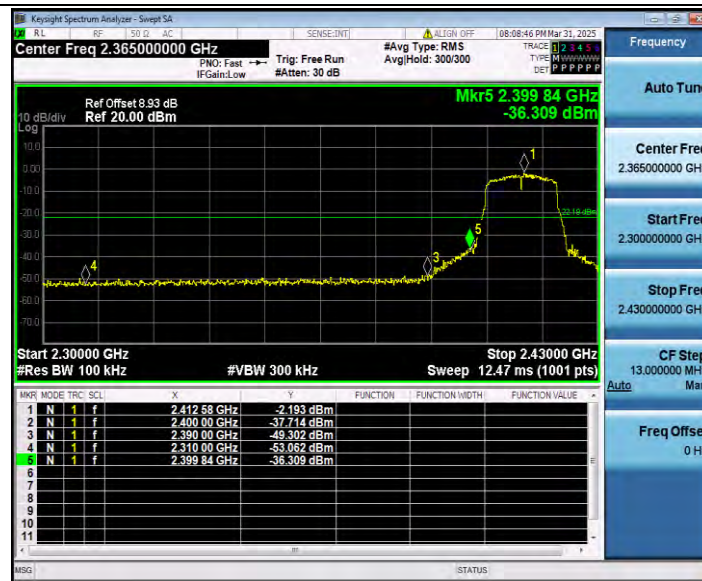
11B_Ant1_High_2462

Frequency

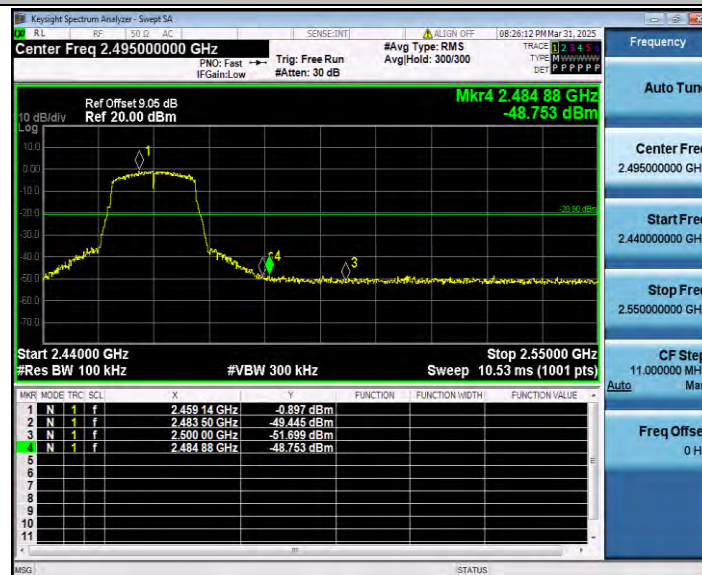
Auto Tune

Center Freq
2.495000000 GHzStart Freq
2.440000000 GHzStop Freq
2.550000000 GHzCF Step
11.000000 MHz
AutoFreq Offset
0 Hz

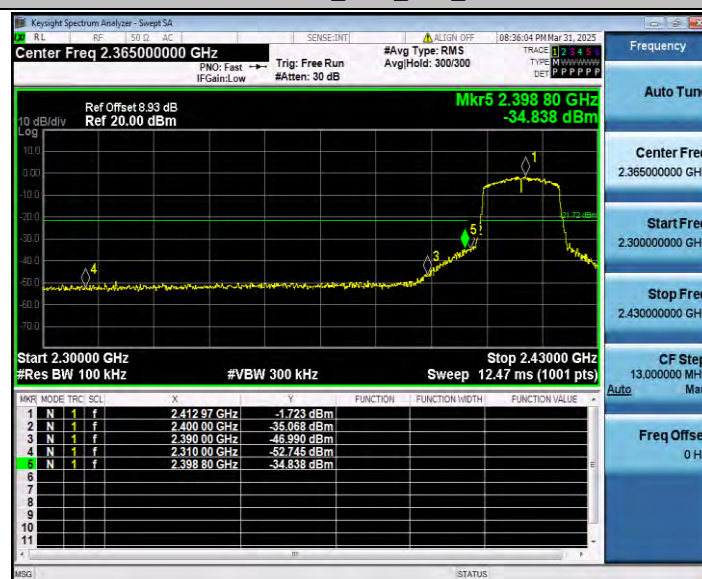
11G_Ant1_Low_2412



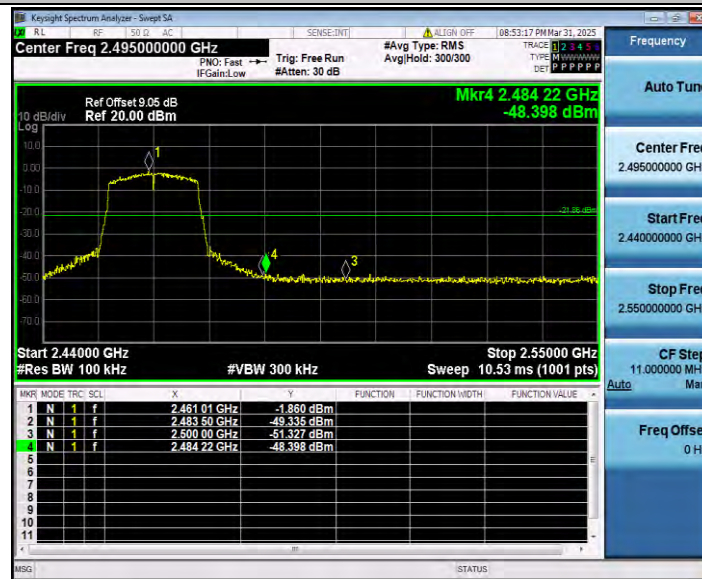
11G_Ant1_High_2462



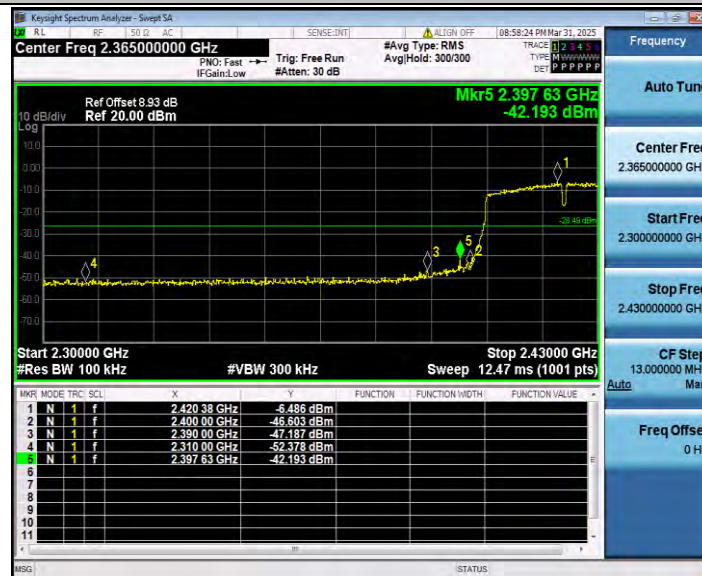
11N20SISO_Ant1_Low_2412



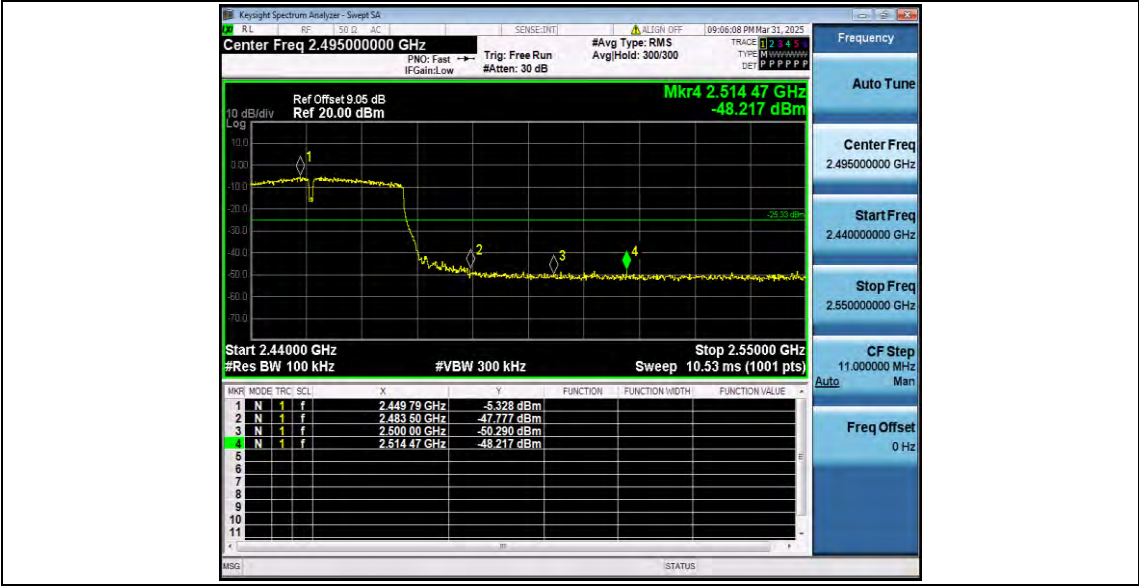
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

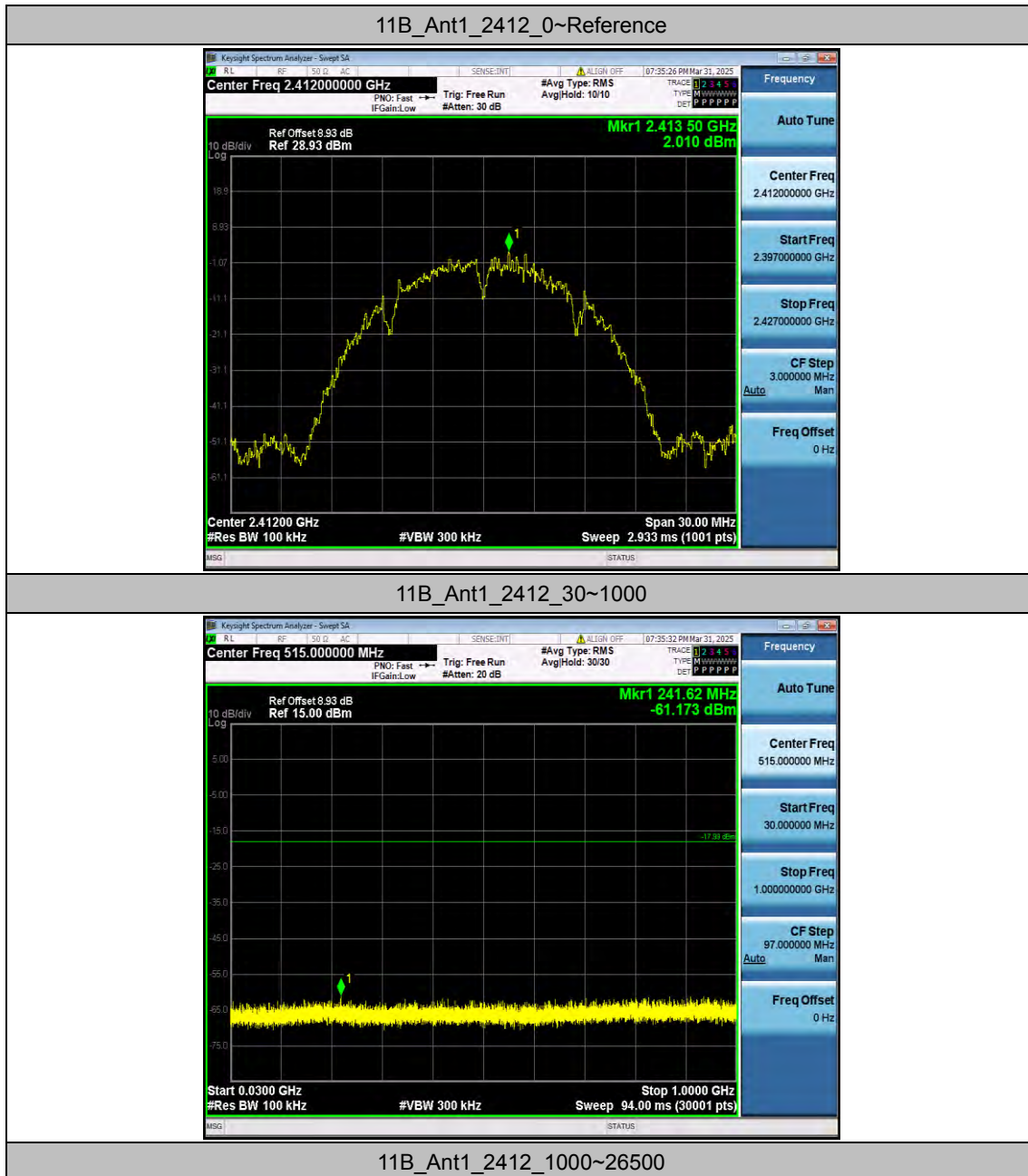


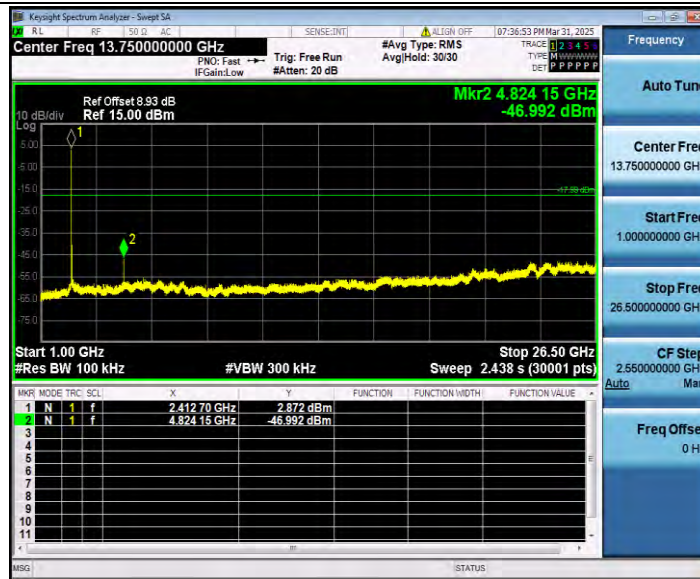
Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.01	2.01	---	PASS
			30~1000	2.01	-61.17	≤ -17.99	PASS
			1000~26500	2.01	-46.99	≤ -17.99	PASS
		2437	Reference	2.54	2.54	---	PASS
			30~1000	2.54	-60.51	≤ -17.46	PASS
			1000~26500	2.54	-46.56	≤ -17.46	PASS
		2462	Reference	3.96	3.96	---	PASS
			30~1000	3.96	-60.33	≤ -16.04	PASS
			1000~26500	3.96	-47.97	≤ -16.04	PASS
11G	Ant1	2412	Reference	-3.10	-3.10	---	PASS
			30~1000	-3.10	-60.53	≤ -23.1	PASS
			1000~26500	-3.10	-47.71	≤ -23.1	PASS
		2437	Reference	-0.46	-0.46	---	PASS
			30~1000	-0.46	-60.66	≤ -20.46	PASS
			1000~26500	-0.46	-47.38	≤ -20.46	PASS
		2462	Reference	-1.19	-1.19	---	PASS
			30~1000	-1.19	-61.12	≤ -21.19	PASS
			1000~26500	-1.19	-46.69	≤ -21.19	PASS
11N20SISO	Ant1	2412	Reference	-2.20	-2.20	---	PASS
			30~1000	-2.20	-60.93	≤ -22.2	PASS
			1000~26500	-2.20	-47.68	≤ -22.2	PASS
		2437	Reference	-1.89	-1.89	---	PASS
			30~1000	-1.89	-60.63	≤ -21.89	PASS
			1000~26500	-1.89	-47.98	≤ -21.89	PASS
		2462	Reference	-2.61	-2.61	---	PASS
			30~1000	-2.61	-60.82	≤ -22.61	PASS
			1000~26500	-2.61	-47.81	≤ -22.61	PASS
11N40SISO	Ant1	2422	Reference	-7.56	-7.56	---	PASS
			30~1000	-7.56	-61.15	≤ -27.56	PASS
			1000~26500	-7.56	-47.69	≤ -27.56	PASS
		2437	Reference	-6.54	-6.54	---	PASS
			30~1000	-6.54	-59.85	≤ -26.54	PASS
			1000~26500	-6.54	-47.85	≤ -26.54	PASS
		2452	Reference	-6.37	-6.37	---	PASS
			30~1000	-6.37	-60.26	≤ -26.37	PASS
			1000~26500	-6.37	-47.33	≤ -26.37	PASS

Test Graphs

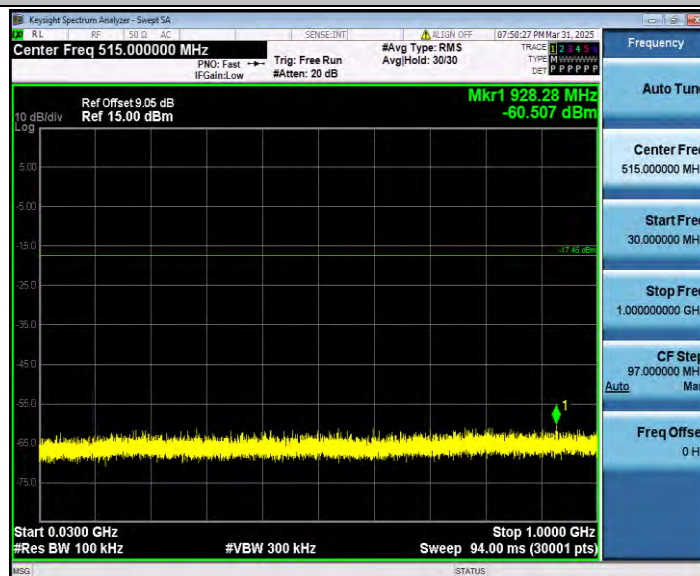




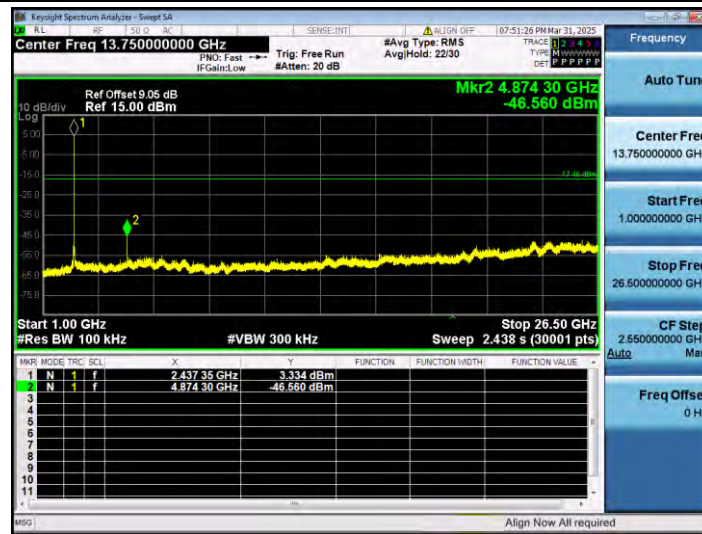
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



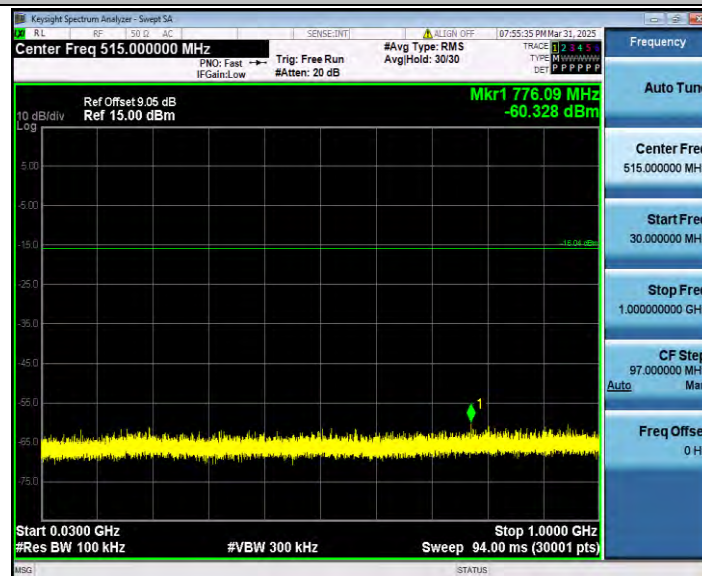
11B_Ant1_2437_1000~26500



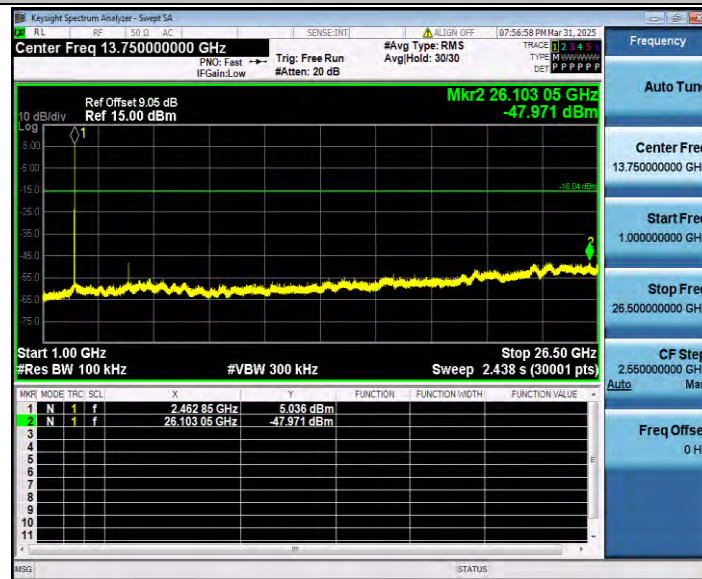
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



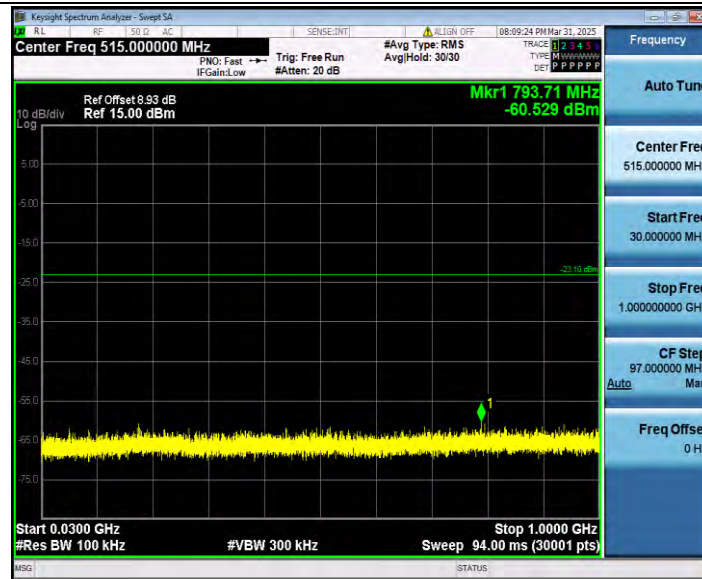
11B_Ant1_2462_1000~26500



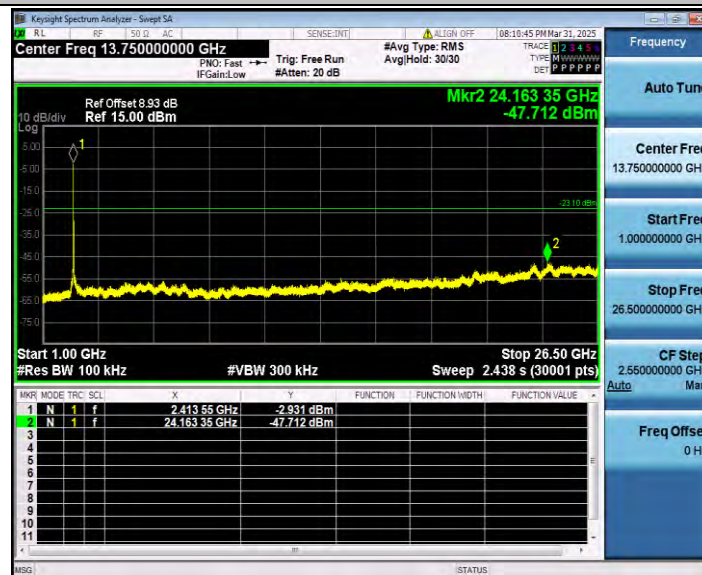
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

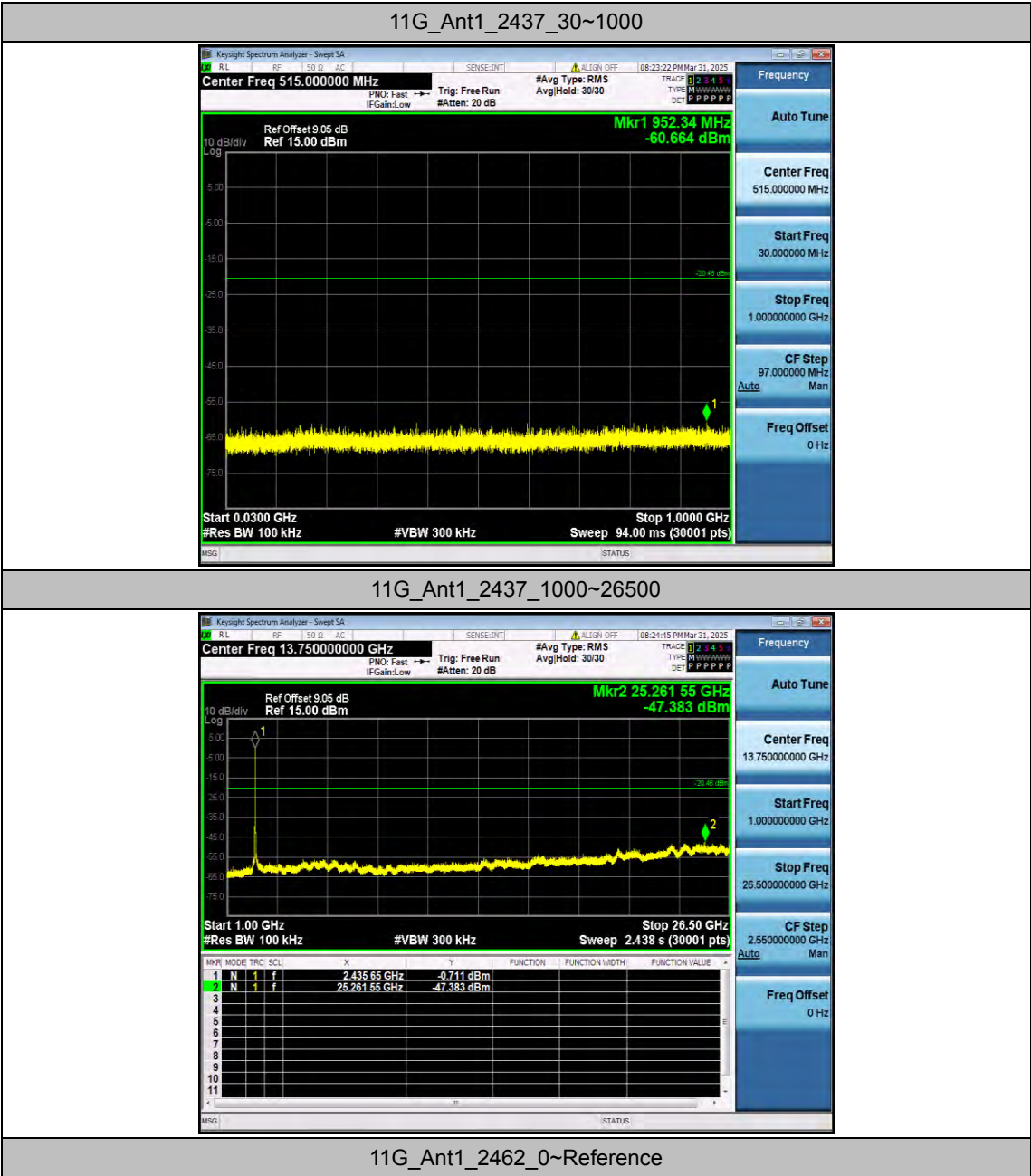


11G_Ant1_2412_1000~26500



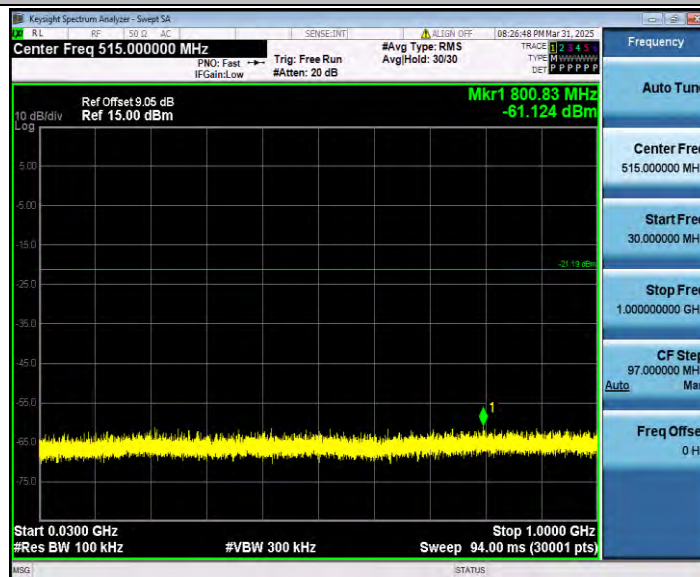
11G_Ant1_2437_0~Reference



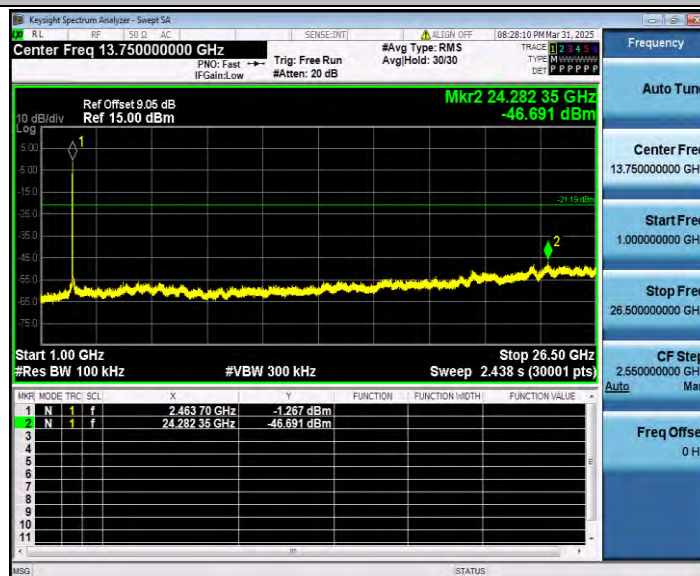




11G_Ant1_2462_30~1000



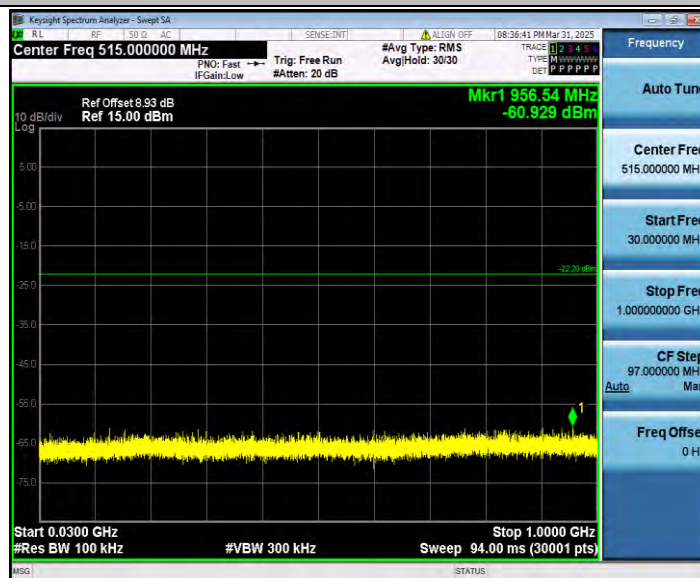
11G_Ant1_2462_1000~26500



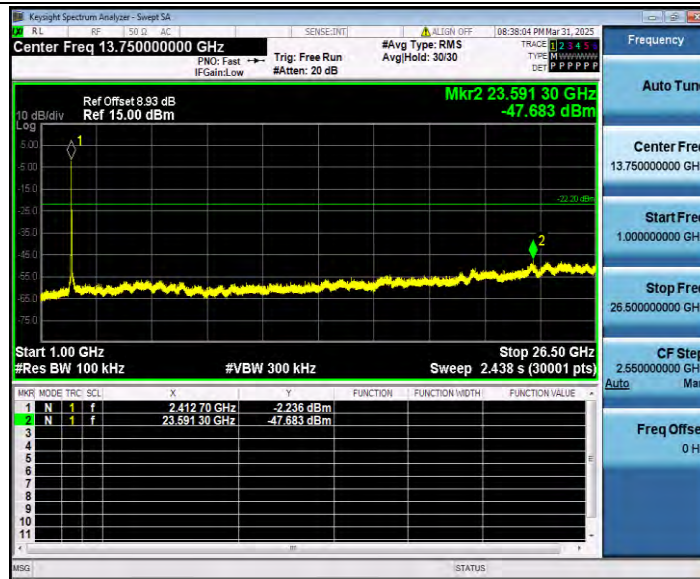
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



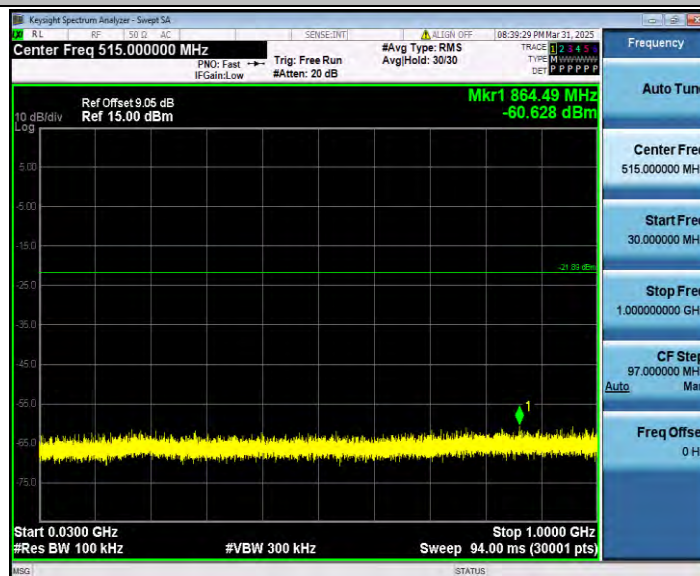
11N20SISO_Ant1_2412_1000~26500



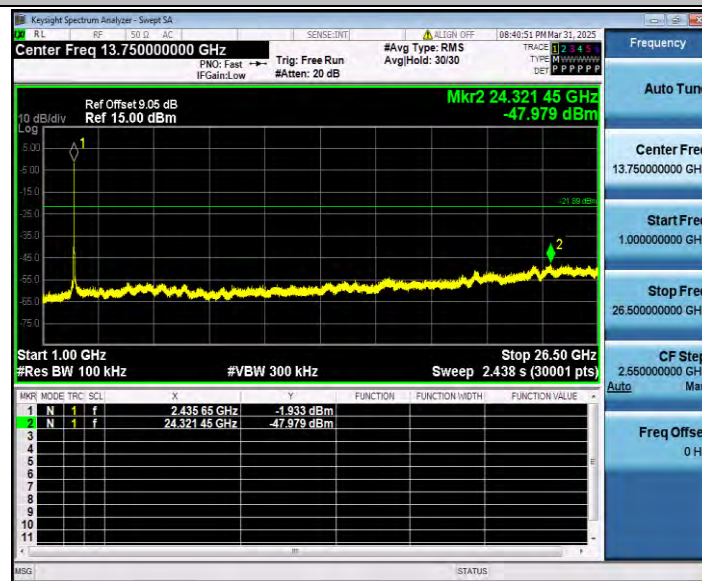
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



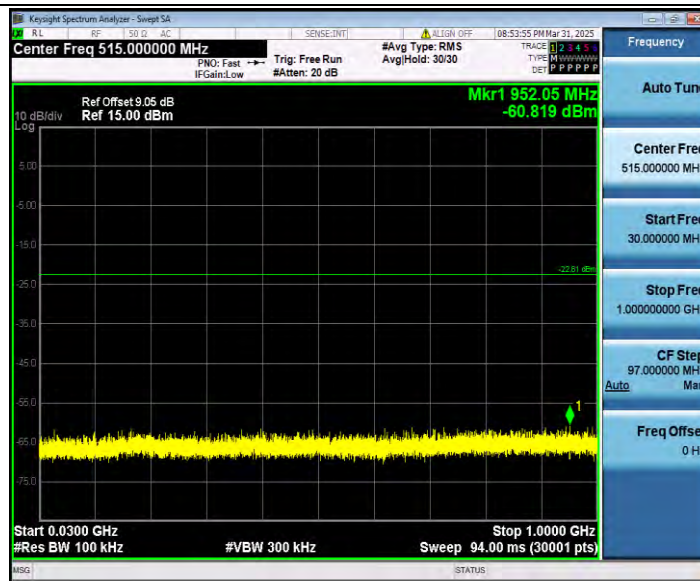
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



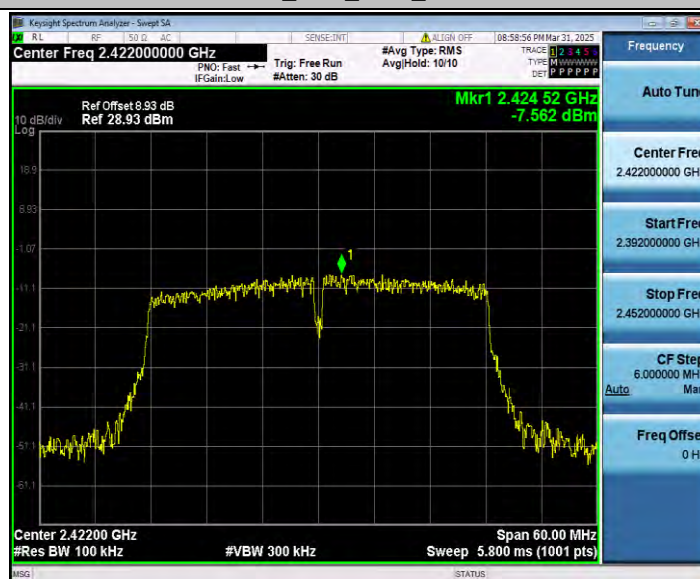
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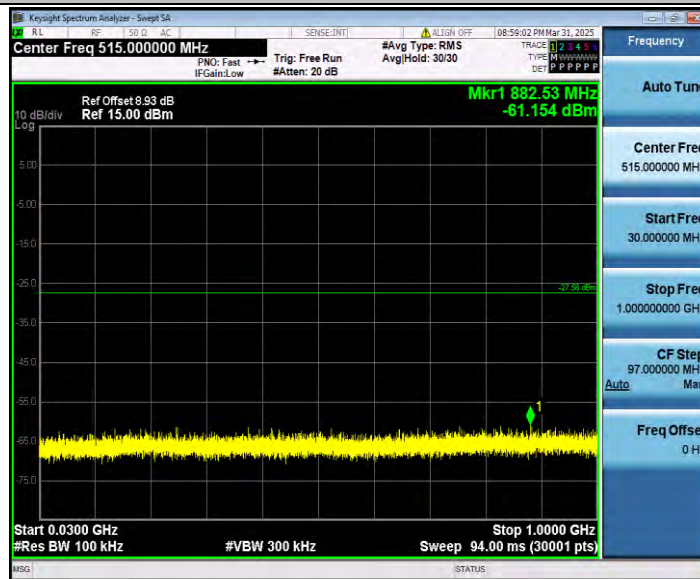
11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



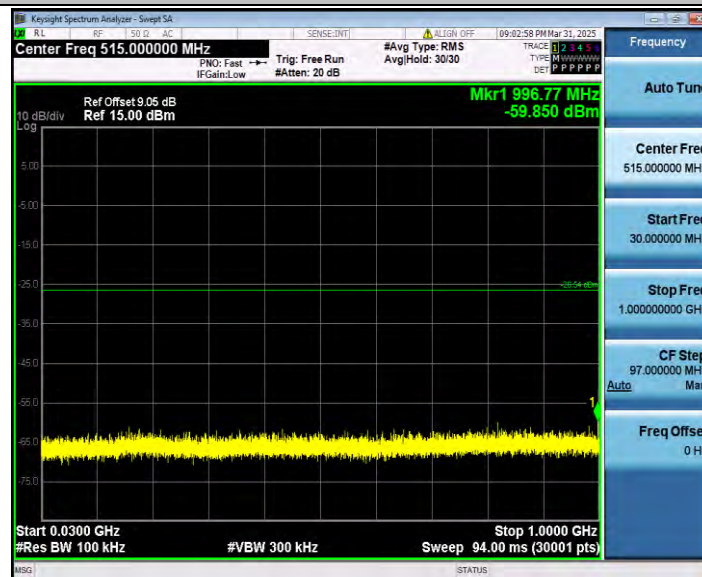
11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



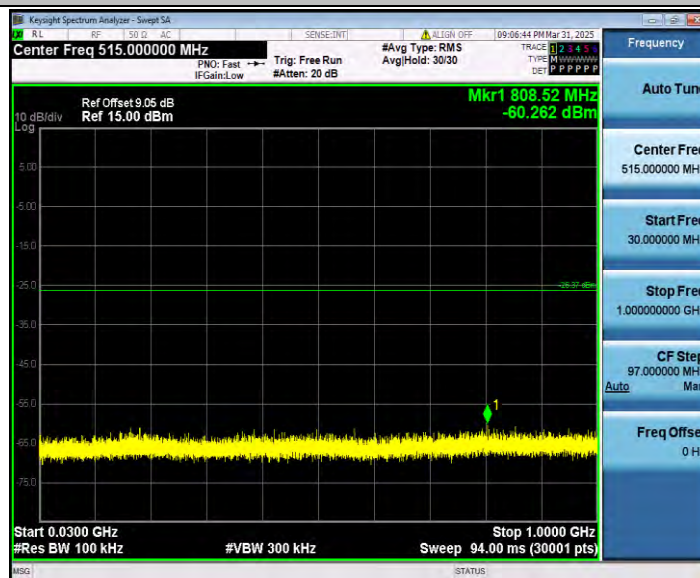
11N40SISO_Ant1_2437_1000~26500



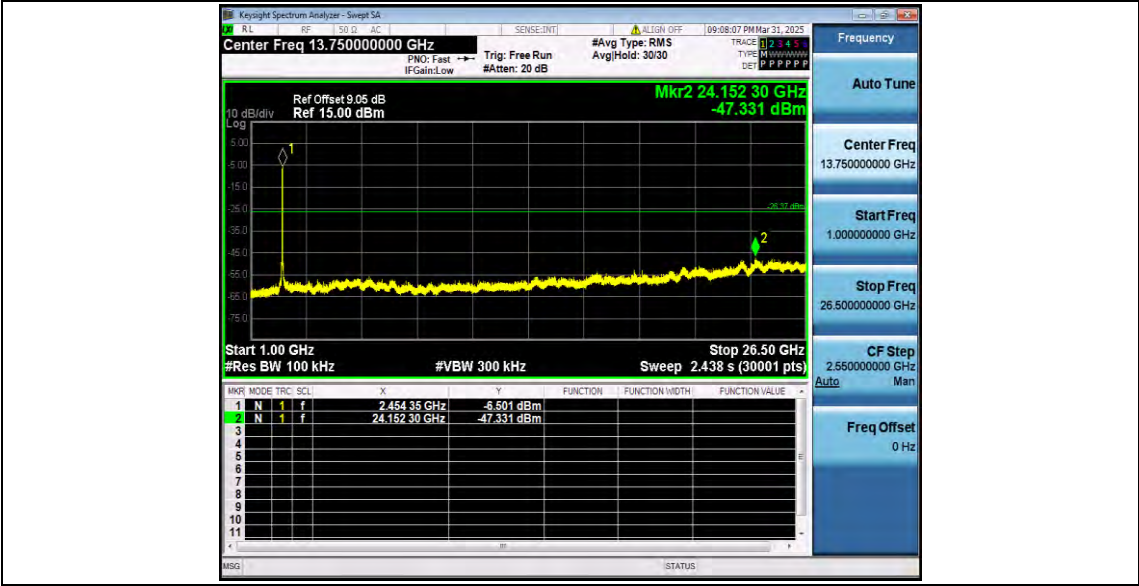
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



Appendix A.7: Emissions in Restricted Bands

Test Result

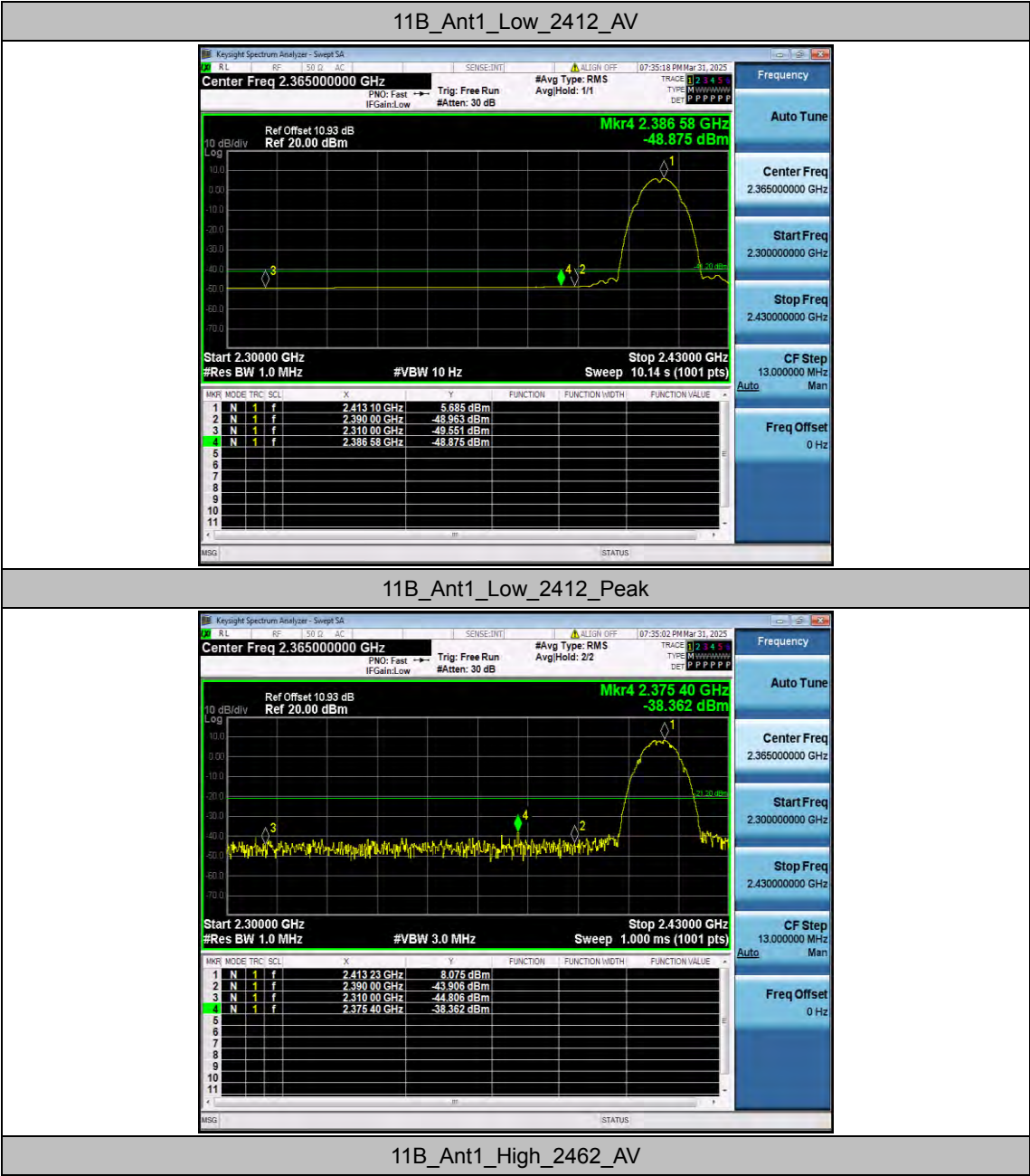
TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.55	≤-41.20	45.65	≤54	PASS
				AV	2386.580	-48.88	≤-41.20	46.32	≤54	PASS
				AV	2390.000	-48.96	≤-41.20	46.24	≤54	PASS
				Peak	2310.000	-44.81	≤-21.20	50.39	≤74	PASS
				Peak	2375.400	-38.36	≤-21.20	56.84	≤74	PASS
				Peak	2390.000	-43.91	≤-21.20	51.29	≤74	PASS
		High	2462	AV	2483.500	-48.75	≤-41.20	46.45	≤54	PASS
				AV	2499.950	-48.47	≤-41.20	46.73	≤54	PASS
				AV	2500.000	-48.47	≤-41.20	46.73	≤54	PASS
				Peak	2483.500	-43.9	≤-21.20	51.30	≤74	PASS
				Peak	2494.890	-40.28	≤-21.20	54.92	≤74	PASS
				Peak	2500.000	-49.84	≤-21.20	45.36	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.35	≤-41.20	45.85	≤54	PASS
				AV	2389.960	-46.77	≤-41.20	48.43	≤54	PASS
				AV	2390.000	-46.77	≤-41.20	48.43	≤54	PASS
				Peak	2310.000	-43.56	≤-21.20	51.64	≤74	PASS
				Peak	2381.380	-40.28	≤-21.20	54.92	≤74	PASS
				Peak	2390.000	-43.51	≤-21.20	51.69	≤74	PASS
		High	2462	AV	2483.500	-46.38	≤-41.20	48.82	≤54	PASS
				AV	2483.560	-46.44	≤-41.20	48.76	≤54	PASS
				AV	2500.000	-47.88	≤-41.20	47.32	≤54	PASS
				Peak	2483.500	-47.65	≤-21.20	47.55	≤74	PASS
				Peak	2485.320	-39.63	≤-21.20	55.57	≤74	PASS
				Peak	2500.000	-46.03	≤-21.20	49.17	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-49.36	≤-41.20	45.84	≤54	PASS
				AV	2389.960	-44.2	≤-41.20	51.00	≤54	PASS
				AV	2390.000	-44.2	≤-41.20	51.00	≤54	PASS
				Peak	2310.000	-48.28	≤-21.20	46.92	≤74	PASS
				Peak	2388.660	-37.86	≤-21.20	57.34	≤74	PASS
				Peak	2390.000	-42.26	≤-21.20	52.94	≤74	PASS
		High	2462	AV	2483.500	-46.62	≤-41.20	48.58	≤54	PASS
				AV	2483.560	-46.71	≤-41.20	48.49	≤54	PASS
				AV	2500.000	-47.84	≤-41.20	47.36	≤54	PASS
				Peak	2483.500	-47.2	≤-21.20	48.00	≤74	PASS

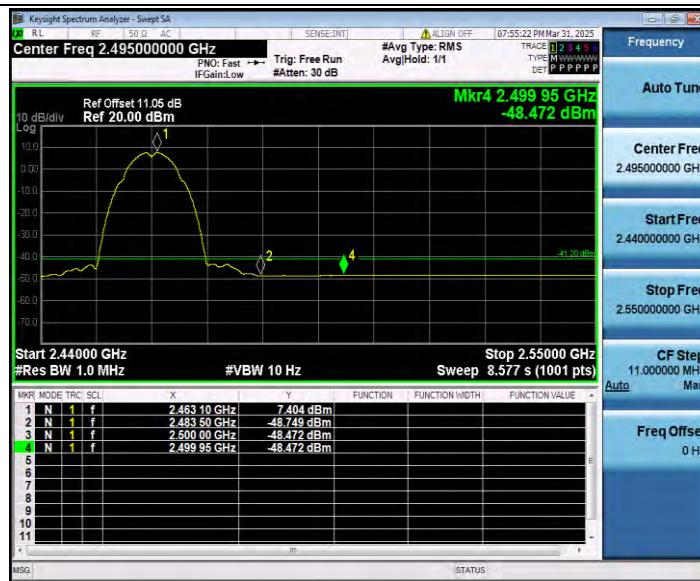
11N40SIS O	Ant1			Peak	2484.440	-40.51	≤-21.20	54.69	≤74	PASS
				Peak	2500.000	-47.44	≤-21.20	47.76	≤74	PASS
		Low	2422	AV	2310.000	-49.47	≤-41.20	45.73	≤54	PASS
				AV	2389.960	-46.09	≤-41.20	49.11	≤54	PASS
				AV	2390.000	-46.09	≤-41.20	49.11	≤54	PASS
				Peak	2310.000	-43.63	≤-21.20	51.57	≤74	PASS
				Peak	2386.060	-38.26	≤-21.20	56.94	≤74	PASS
				Peak	2390.000	-39.1	≤-21.20	56.10	≤74	PASS
		High	2452	AV	2483.500	-46.05	≤-41.20	49.15	≤54	PASS
				AV	2484.000	-46	≤-41.20	49.20	≤54	PASS
				AV	2500.000	-47.8	≤-41.20	47.40	≤54	PASS
				Peak	2483.500	-42.31	≤-21.20	52.89	≤74	PASS
				Peak	2487.080	-38.25	≤-21.20	56.95	≤74	PASS
				Peak	2500.000	-45.56	≤-21.20	49.64	≤74	PASS

Note:

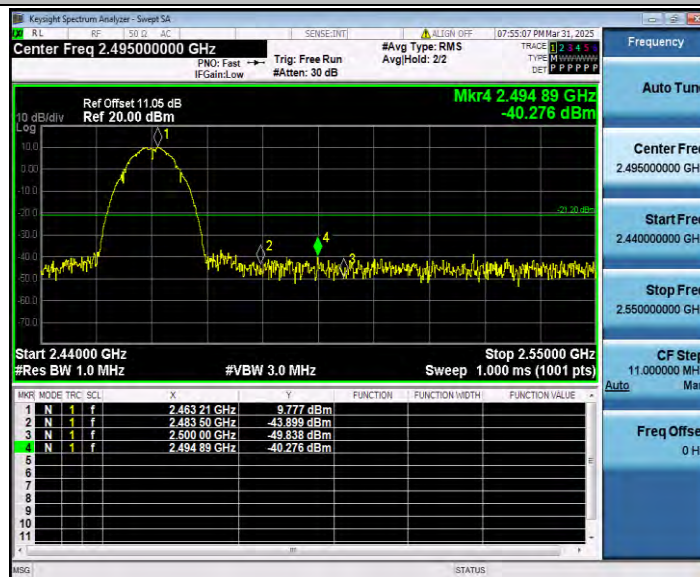
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

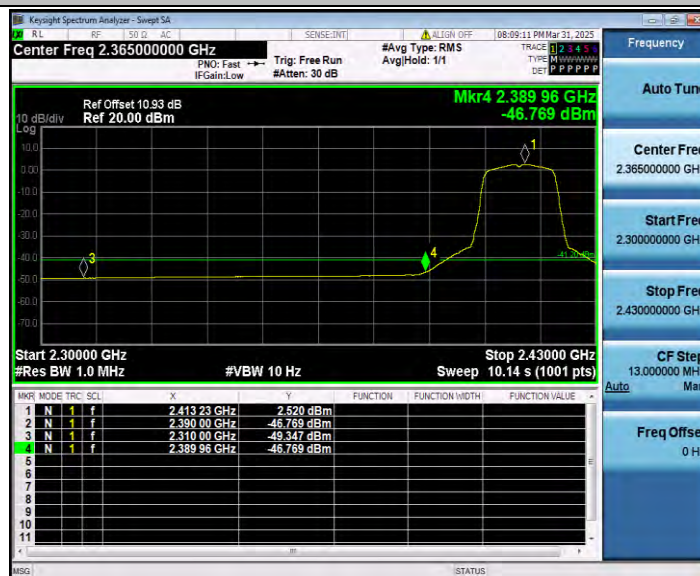




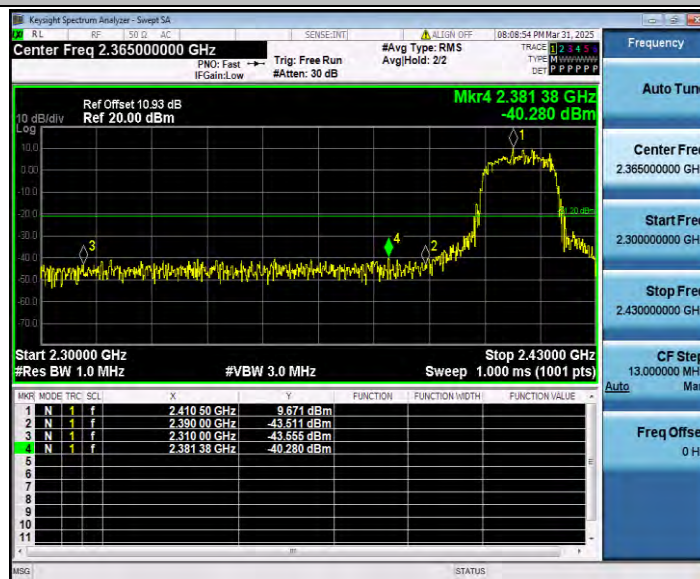
11B_Ant1_High_2462_Peak



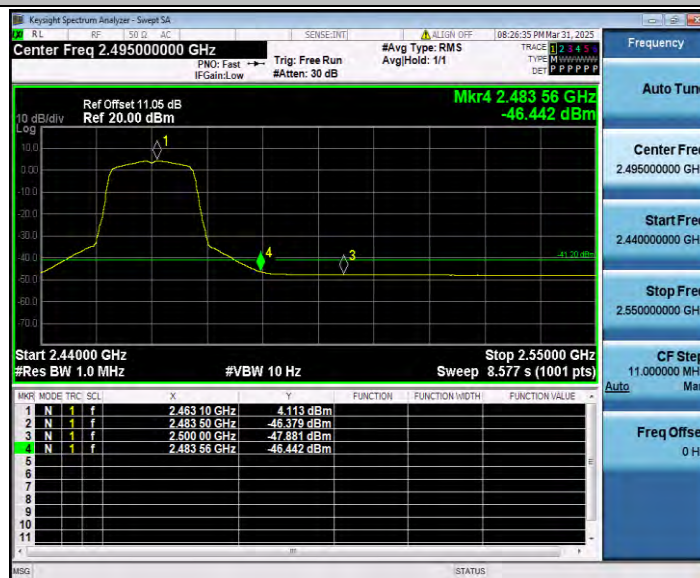
11G_Ant1_Low_2412_AV



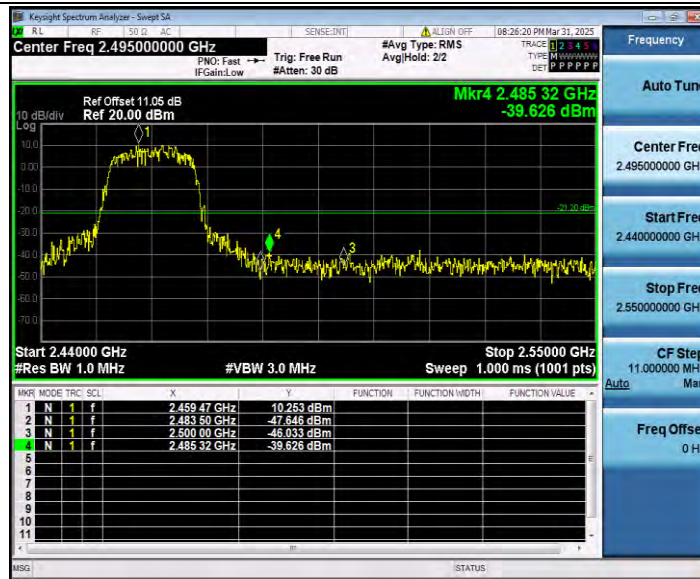
11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



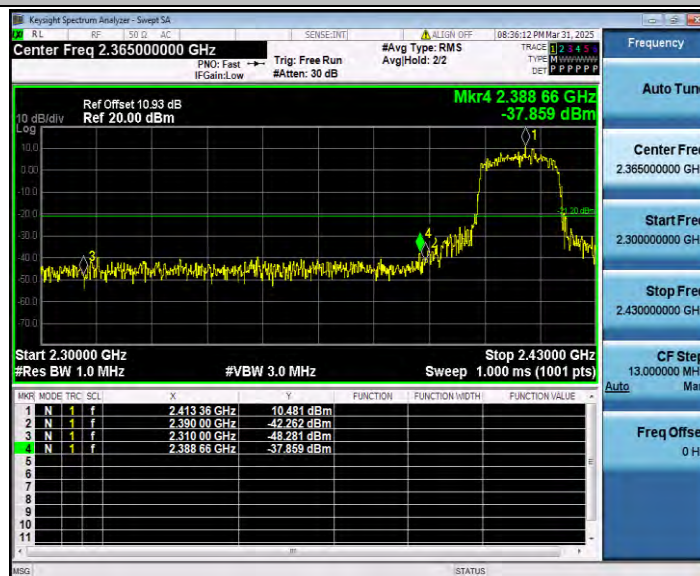
11G_Ant1_High_2462_Peak



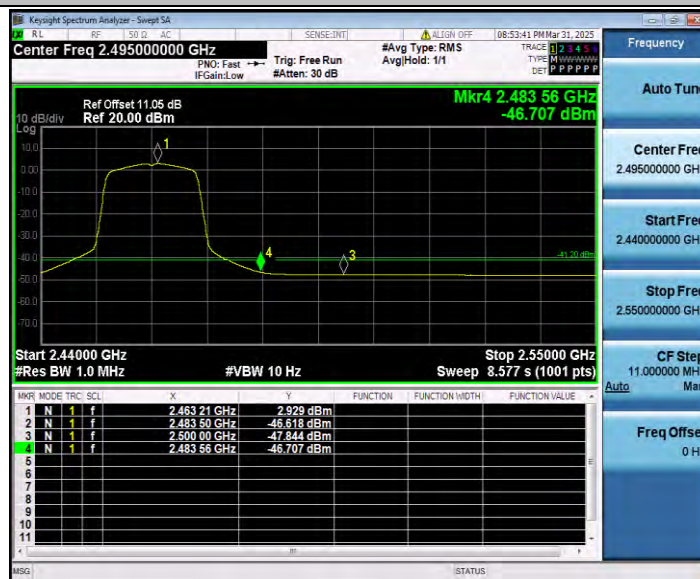
11N20SISO_Ant1_Low_2412_AV



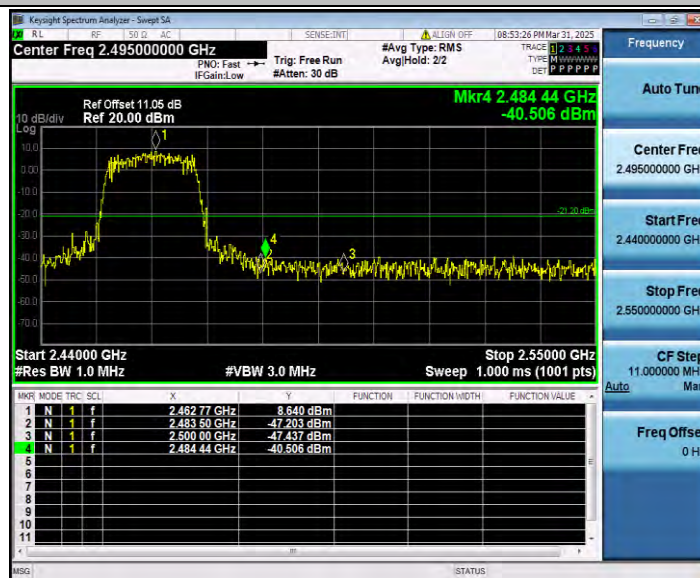
11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



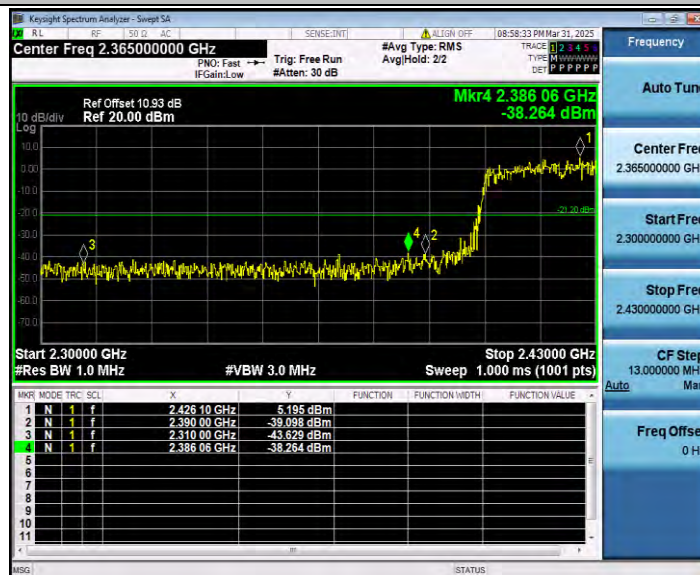
11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV

