

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>

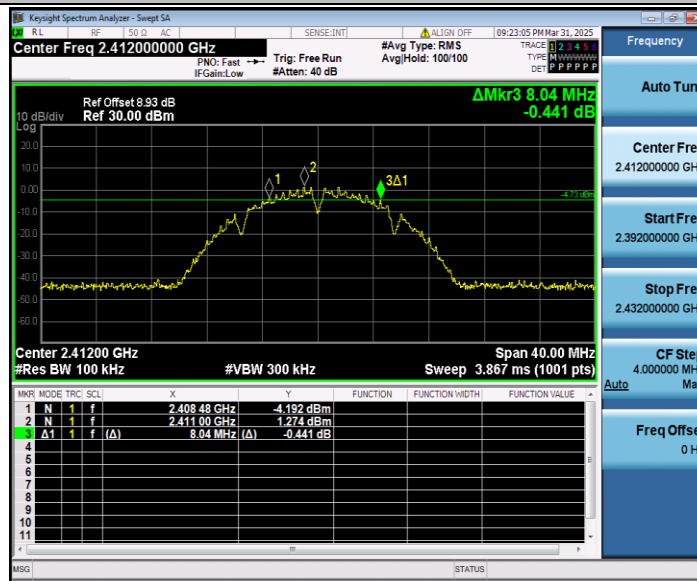
Appendix A.1: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.040	2408.480	2416.520	0.5	PASS
		2437	8.000	2433.000	2441.000	0.5	PASS
		2462	8.040	2457.960	2466.000	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.360	2428.840	2445.200	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.560	2428.240	2445.800	0.5	PASS
		2462	17.640	2453.200	2470.840	0.5	PASS
11N40SISO	Ant1	2422	36.080	2404.080	2440.160	0.5	PASS
		2437	35.680	2419.480	2455.160	0.5	PASS
		2452	36.320	2433.840	2470.160	0.5	PASS

Test Graphs

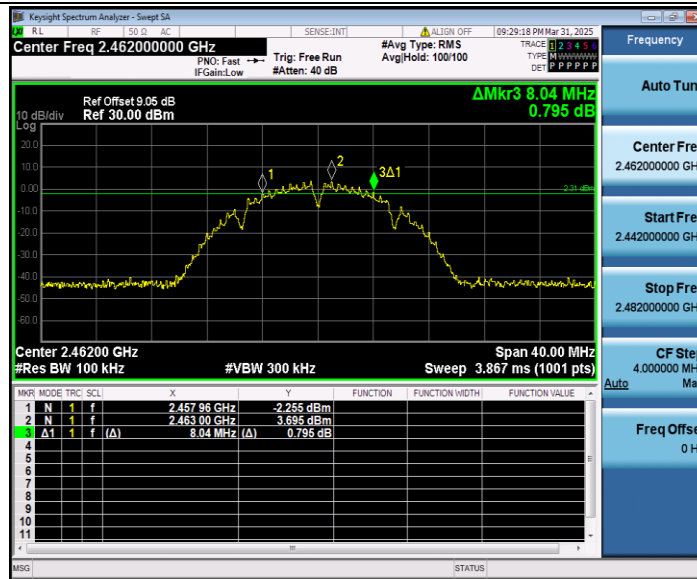
11B_Ant1_2412



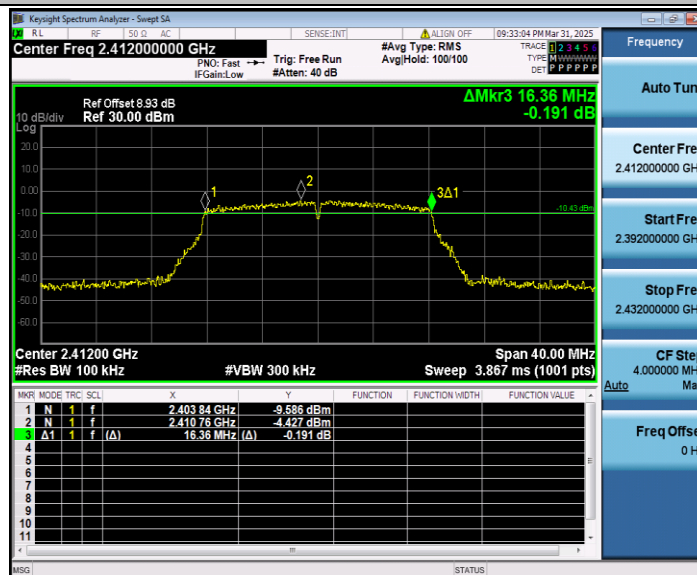
11B_Ant1_2437



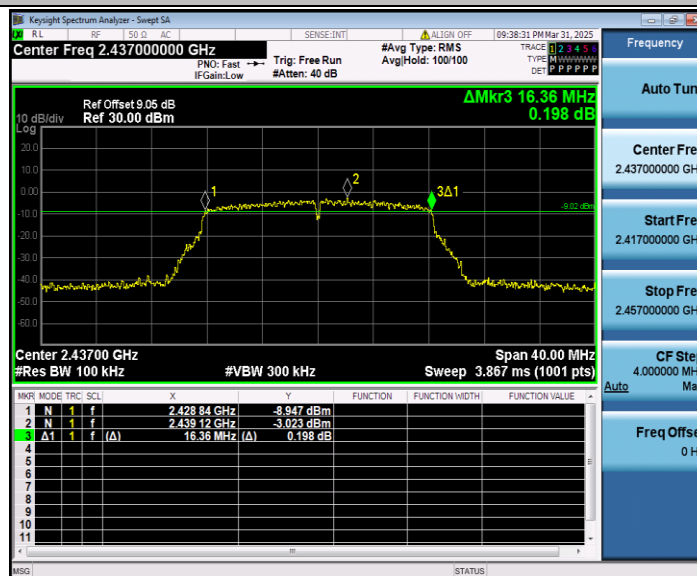
11B_Ant1_2462



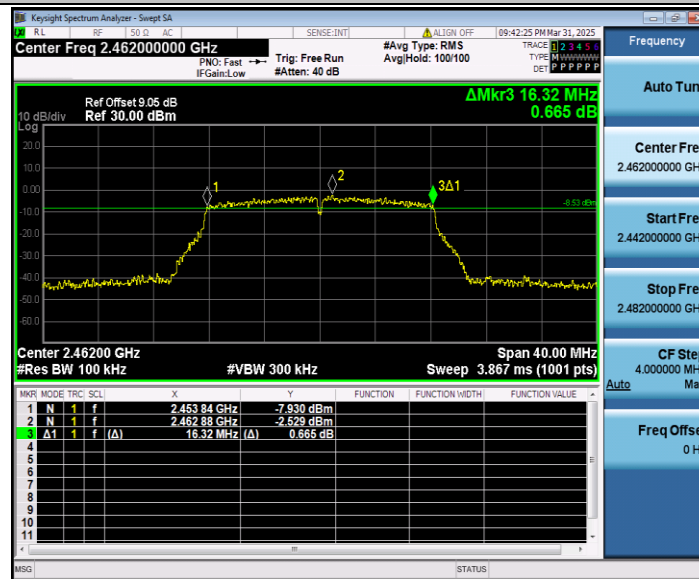
11G_Ant1_2412



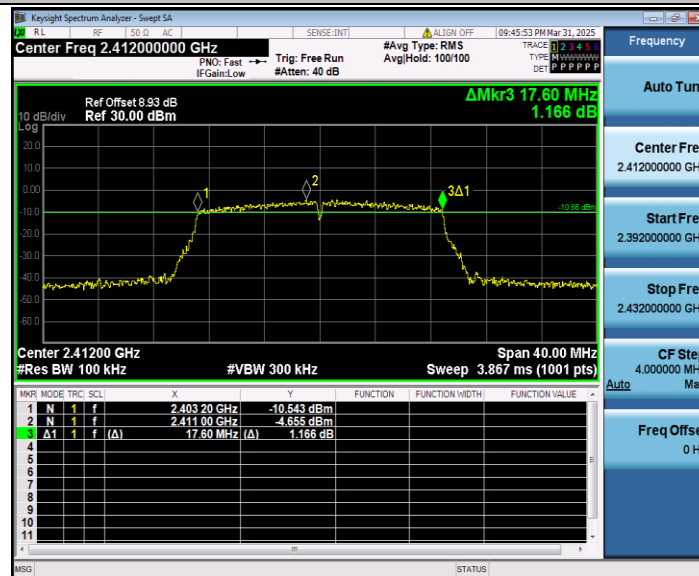
11G_Ant1_2437



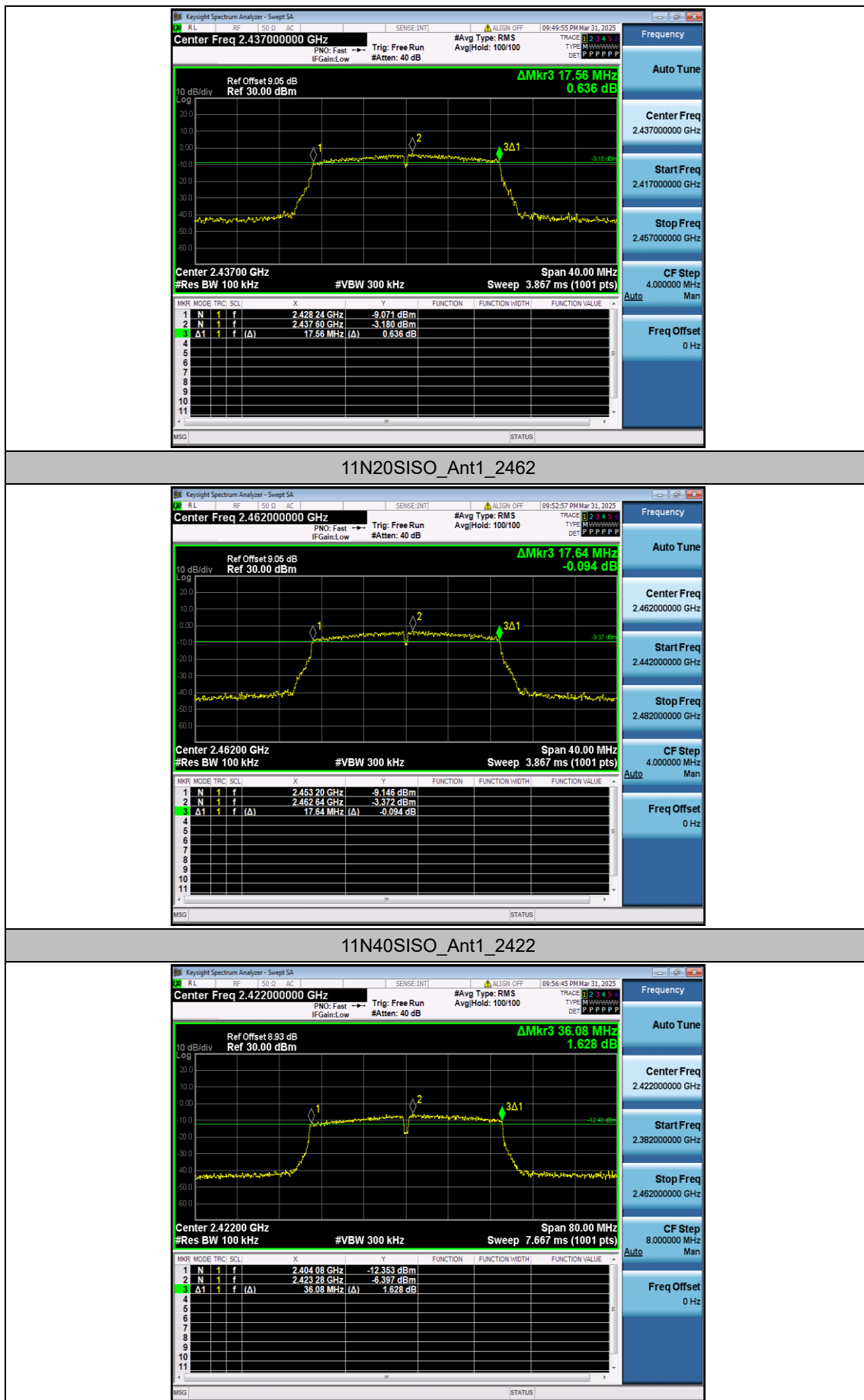
11G_Ant1_2462



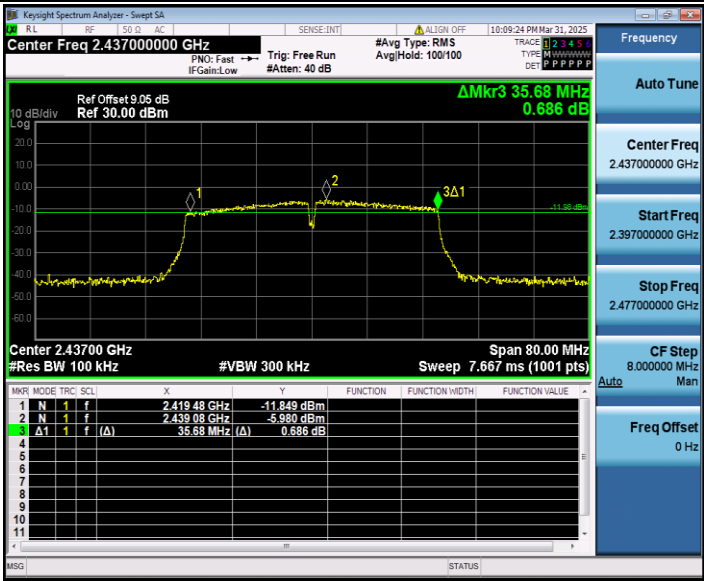
11N20SISO_Ant1_2412



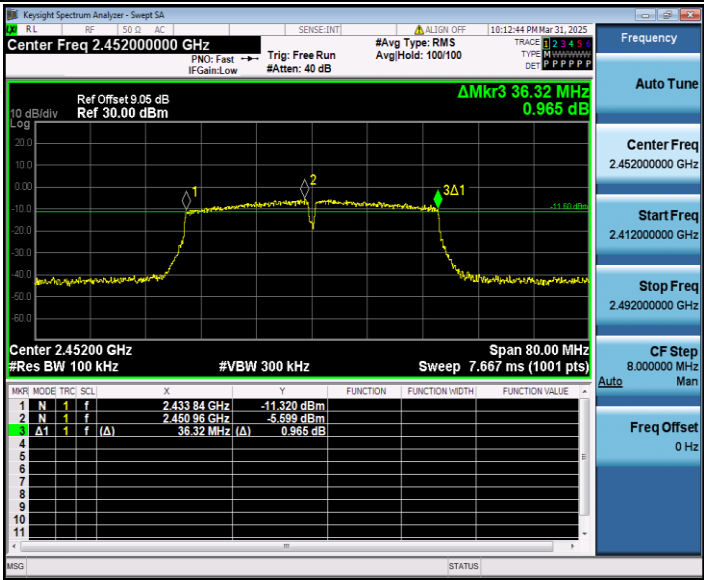
11N20SISO_Ant1_2437



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

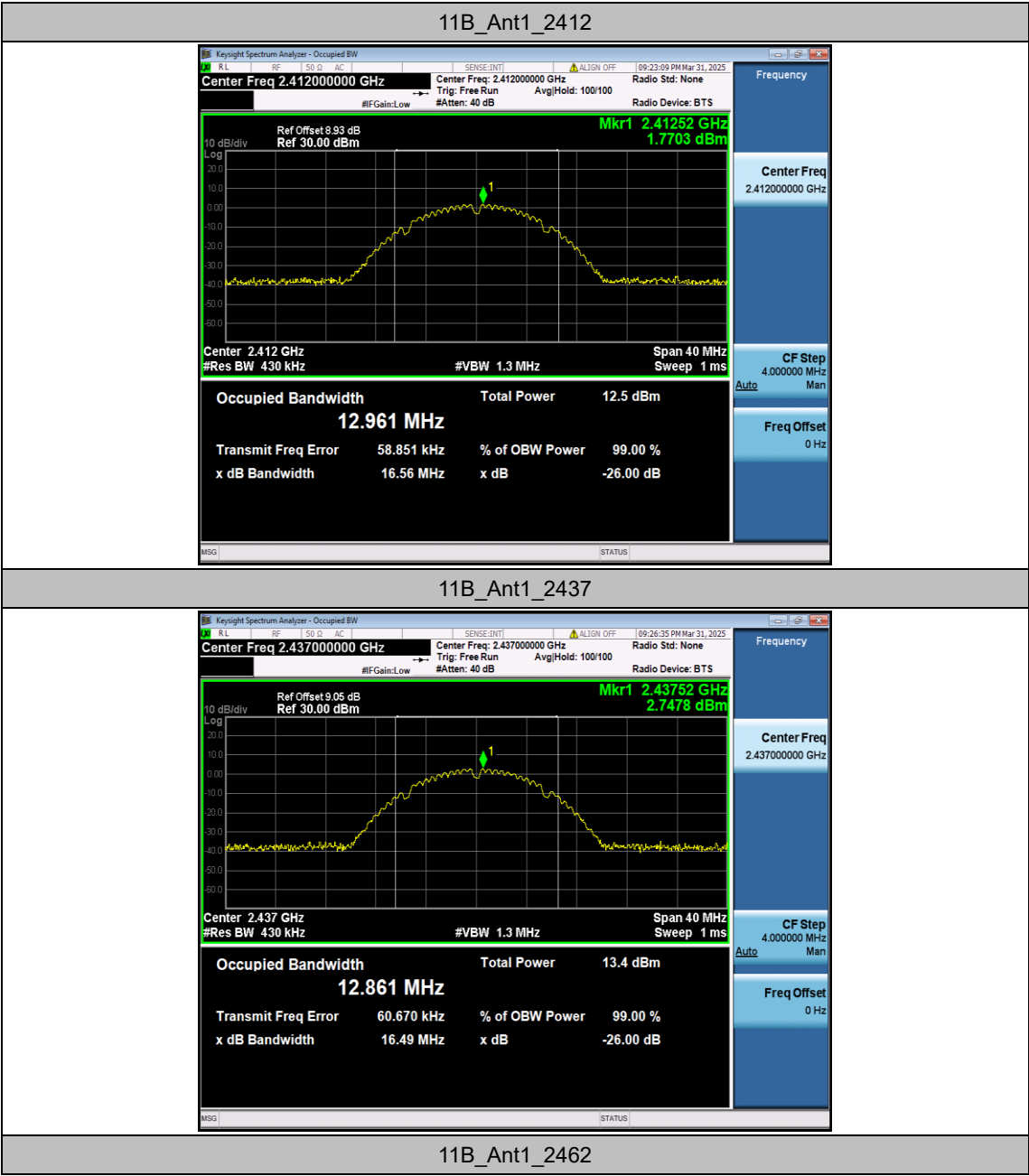


Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.961	2405.5784	2418.5394	---	---
		2437	12.861	2430.6302	2443.4912	---	---
		2462	12.852	2455.6220	2468.4740	---	---
11G	Ant1	2412	16.882	2403.6041	2420.4861	---	---
		2437	16.756	2428.6963	2445.4523	---	---
		2462	16.707	2453.7017	2470.4087	---	---
11N20SISO	Ant1	2412	17.869	2403.0960	2420.9650	---	---
		2437	17.834	2428.1497	2445.9837	---	---
		2462	17.799	2453.1407	2470.9397	---	---
11N40SISO	Ant1	2422	36.214	2404.0525	2440.2665	---	---
		2437	36.081	2419.1256	2455.2066	---	---
		2452	36.114	2434.0022	2470.1162	---	---

Test Graphs



11B_Ant1_2437

Keysight Spectrum Analyzer - Occupied BW

Center Freq 2.437000000 GHz

Center Freq: 2.437000000 GHz

Trig: Free Run

#FGain: Low

#Atten: 40 dB

Radio Std: None

Radio Device: BTS

Ref Offset 9.05 dB

Ref 30.00 dBm

Mkr1 2.43752 GHz

2.7478 dBm

10 dB/div

Log

Center 2.437 GHz

#Res BW 430 kHz

#VBW 1.3 MHz

Span 40 MHz

Sweep 1 ms

Occupied Bandwidth

12.861 MHz

Total Power

13.4 dBm

Transmit Freq Error

60.670 kHz

% of OBW Power

99.00 %

x dB Bandwidth

16.49 MHz

x dB

-26.00 dB

MSG

STATUS

Frequency

Center Freq

2.437000000 GHz

CF Step

4.000000 MHz

Auto

Man

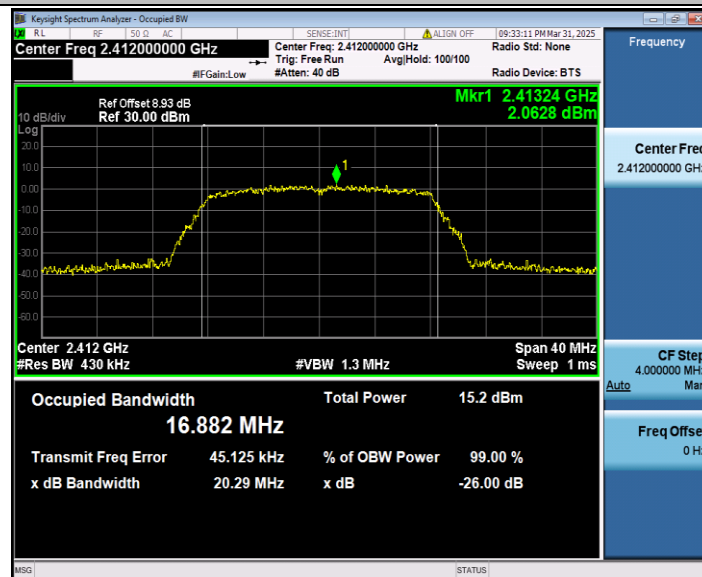
Freq Offset

0 Hz

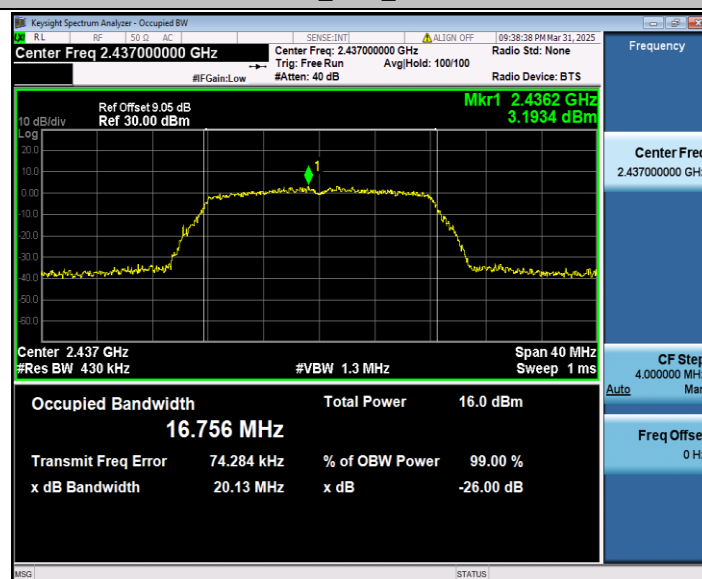
11B_Ant1_2462



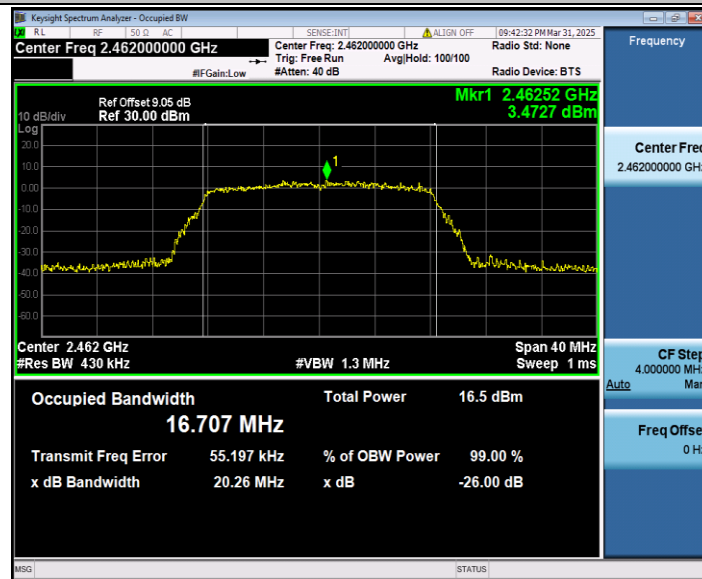
11G_Ant1_2412



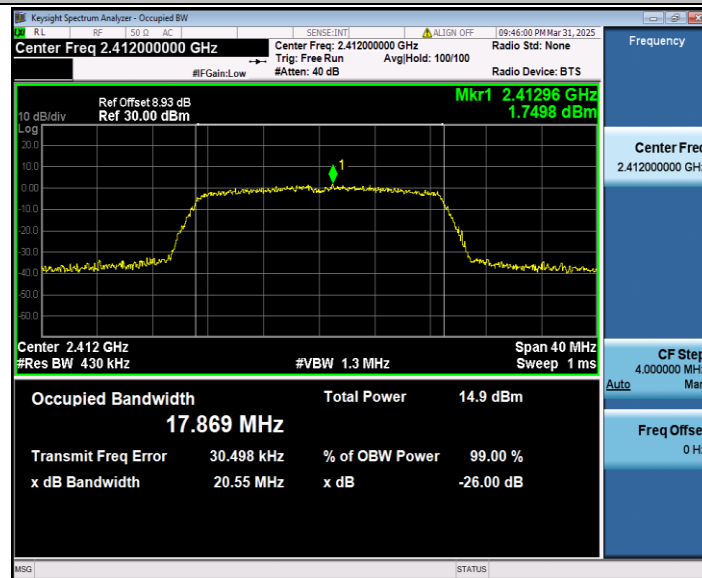
11G_Ant1_2437



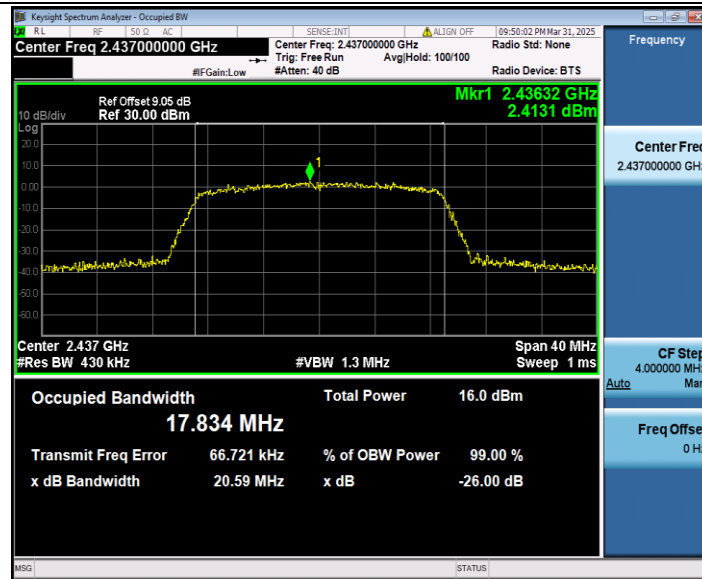
11G_Ant1_2462



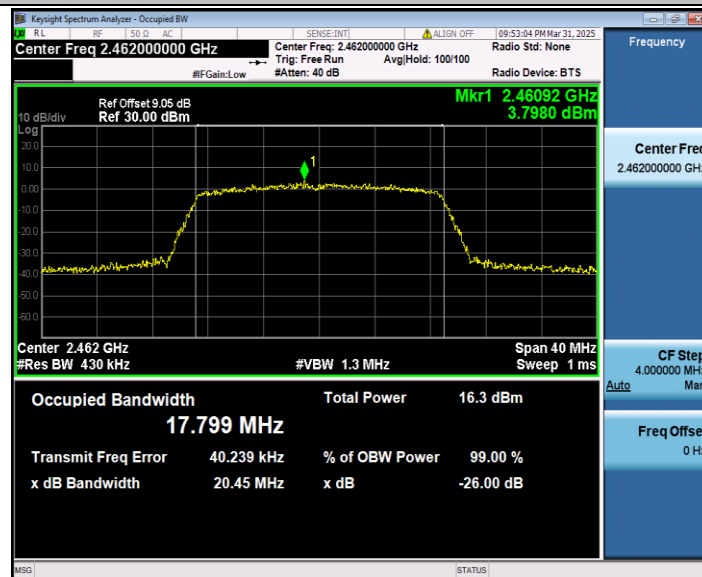
11N20SISO_Ant1_2412



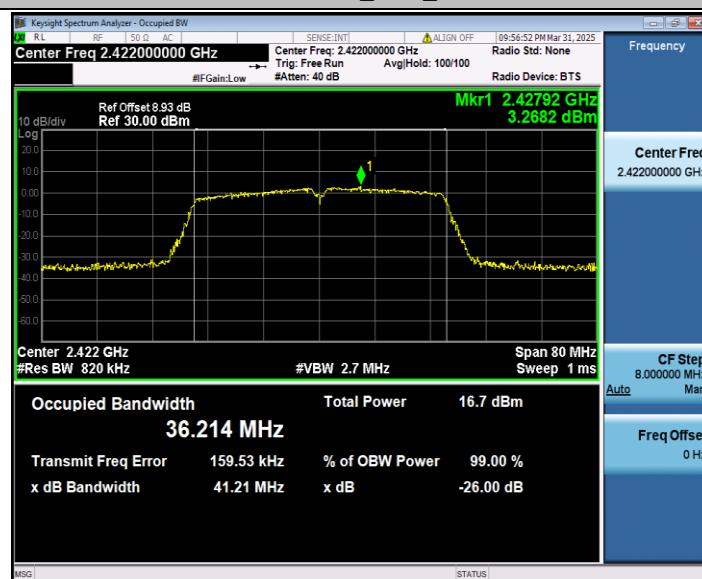
11N20SISO_Ant1_2437



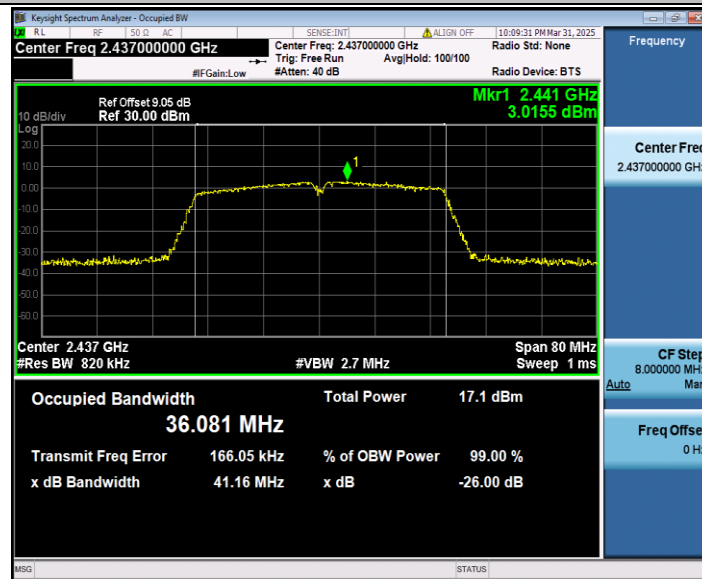
11N20SISO_Ant1_2462



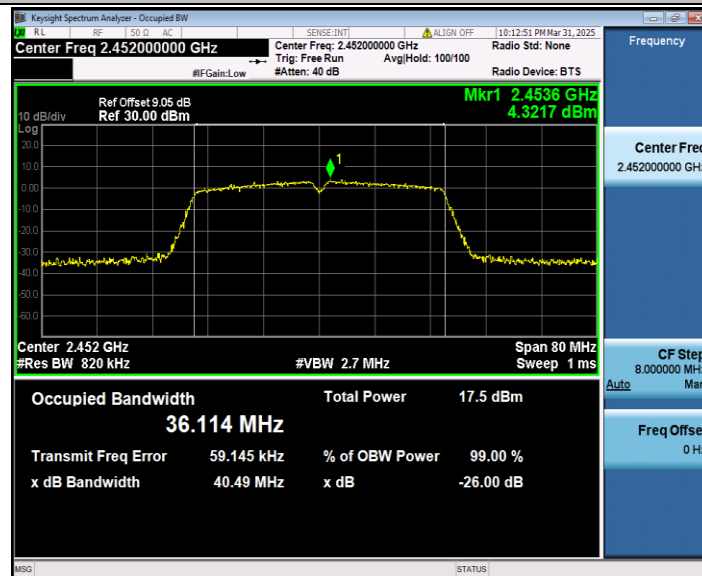
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix A.3: Maximum conducted output power

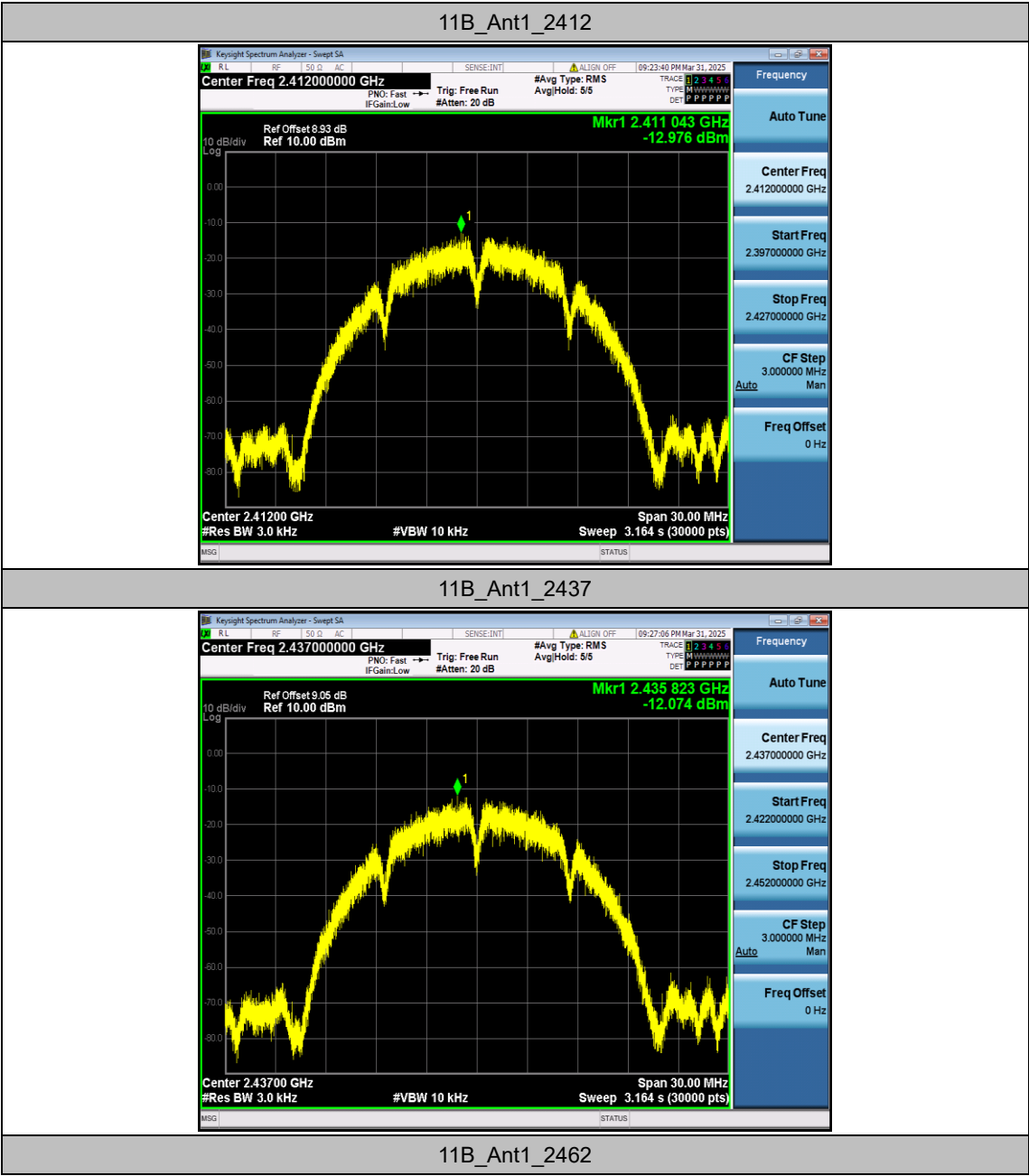
Test Mode	Antenna	Frequency [MHz]	Set Power	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	---	12.52	≤30.00	PASS
		2437	---	13.47	≤30.00	PASS
		2462	---	14.95	≤30.00	PASS
11G	Ant1	2412	---	16.29	≤30.00	PASS
		2437	---	17.26	≤30.00	PASS
		2462	---	17.68	≤30.00	PASS
11N20SI SO	Ant1	2412	---	16.11	≤30.00	PASS
		2437	---	17.11	≤30.00	PASS
		2462	---	17.60	≤30.00	PASS
11N40SI SO	Ant1	2422	---	17.10	≤30.00	PASS
		2437	---	17.50	≤30.00	PASS
		2452	---	17.90	≤30.00	PASS

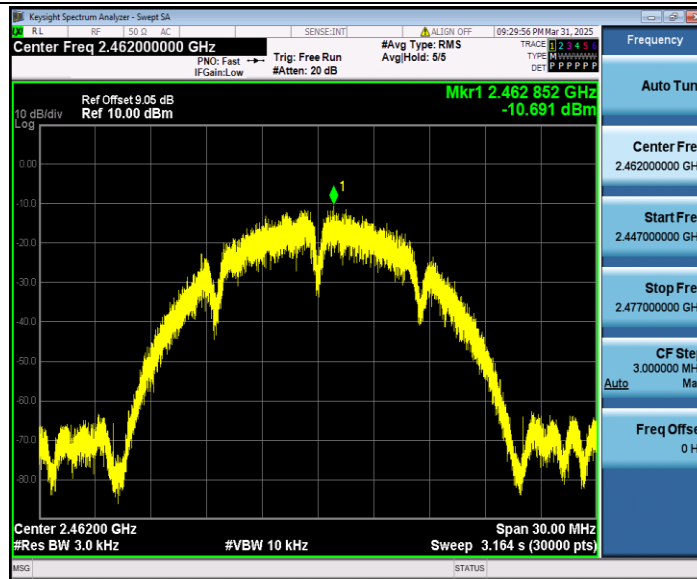
Appendix A.4: Maximum power spectral density

Test Result

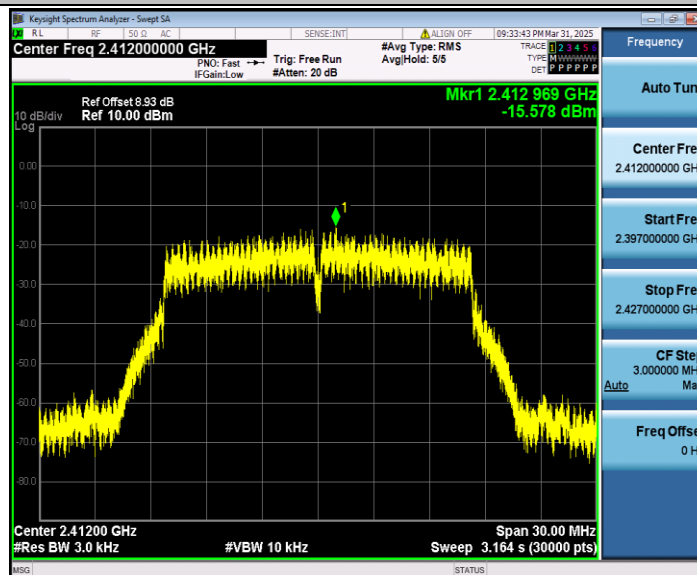
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.98	≤8.00	PASS
		2437	-12.07	≤8.00	PASS
		2462	-10.69	≤8.00	PASS
11G	Ant1	2412	-15.58	≤8.00	PASS
		2437	-14.74	≤8.00	PASS
		2462	-14.39	≤8.00	PASS
11N20SISO	Ant1	2412	-16.57	≤8.00	PASS
		2437	-15.02	≤8.00	PASS
		2462	-13.66	≤8.00	PASS
11N40SISO	Ant1	2422	-18.00	≤8.00	PASS
		2437	-17.62	≤8.00	PASS
		2452	-17.17	≤8.00	PASS

Test Graphs

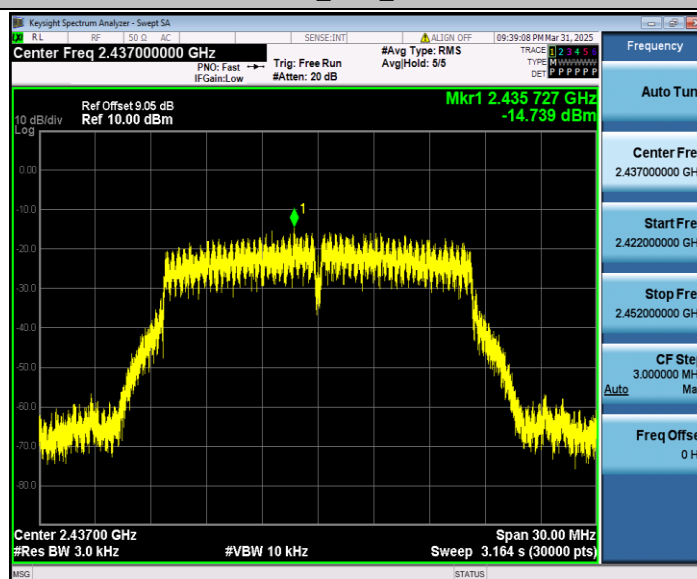




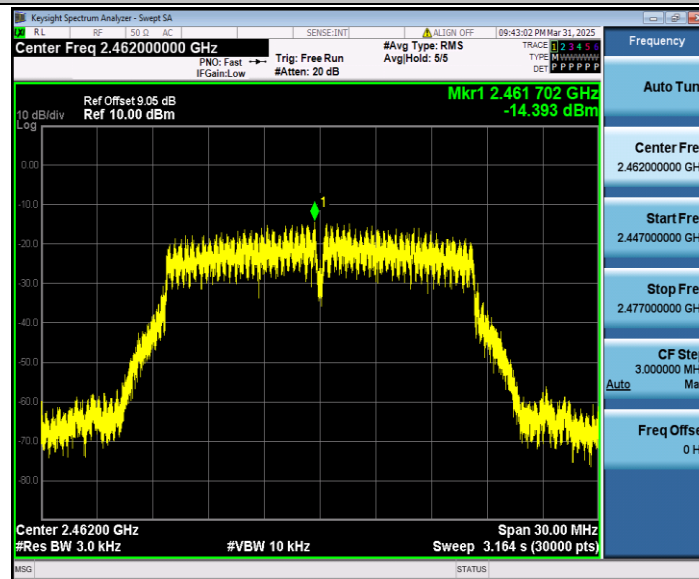
11G_Ant1_2412



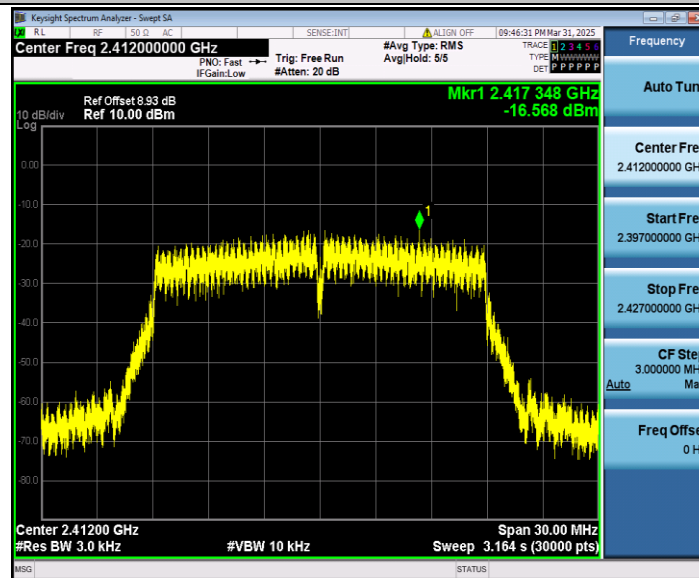
11G_Ant1_2437



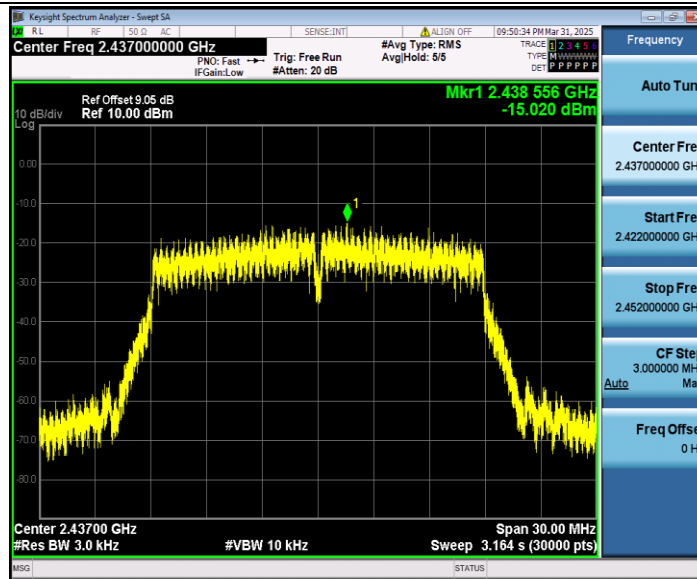
11G_Ant1_2462



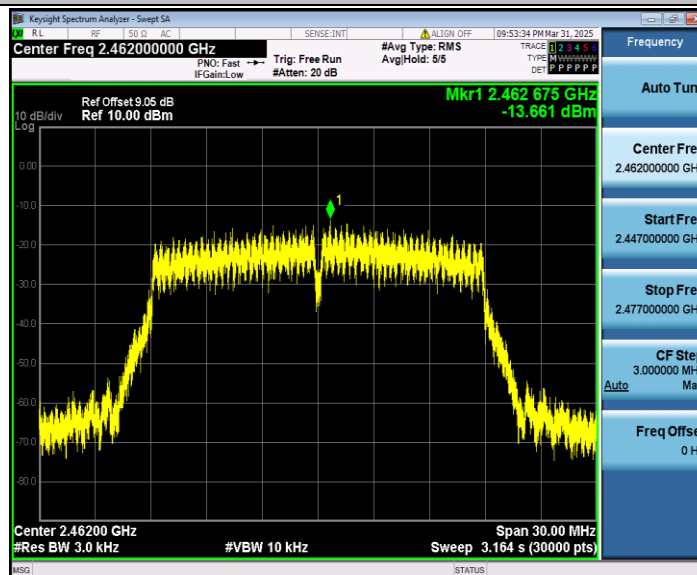
11N20SISO_Ant1_2412



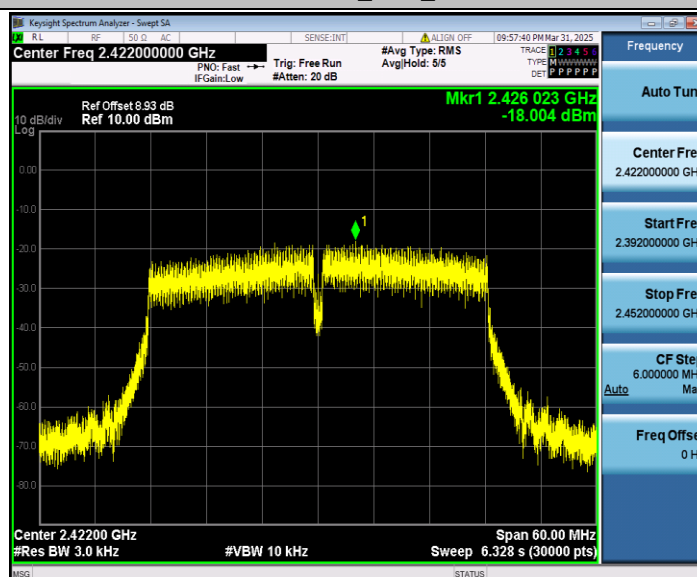
11N20SISO_Ant1_2437



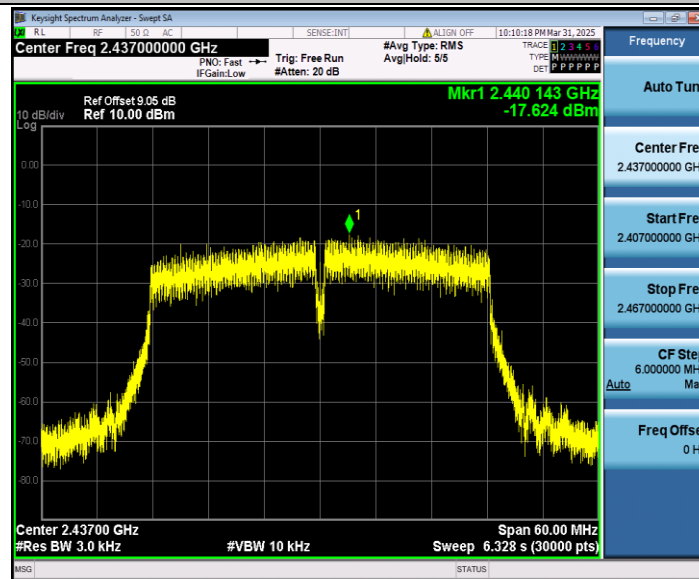
11N20SISO_Ant1_2462



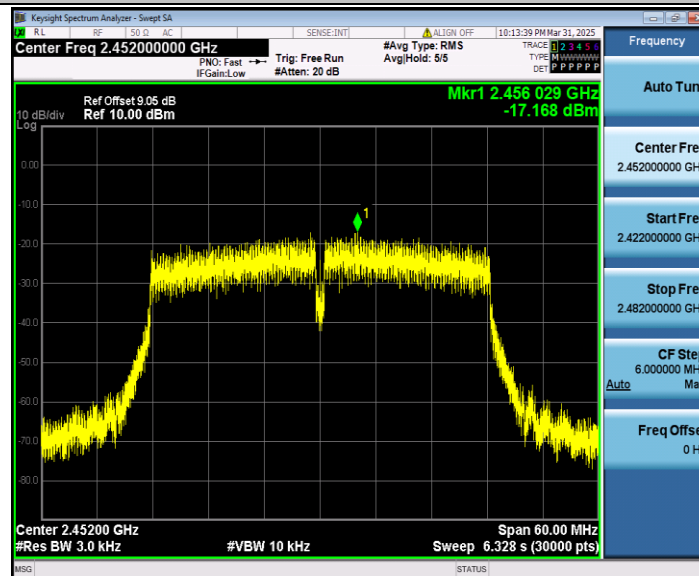
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

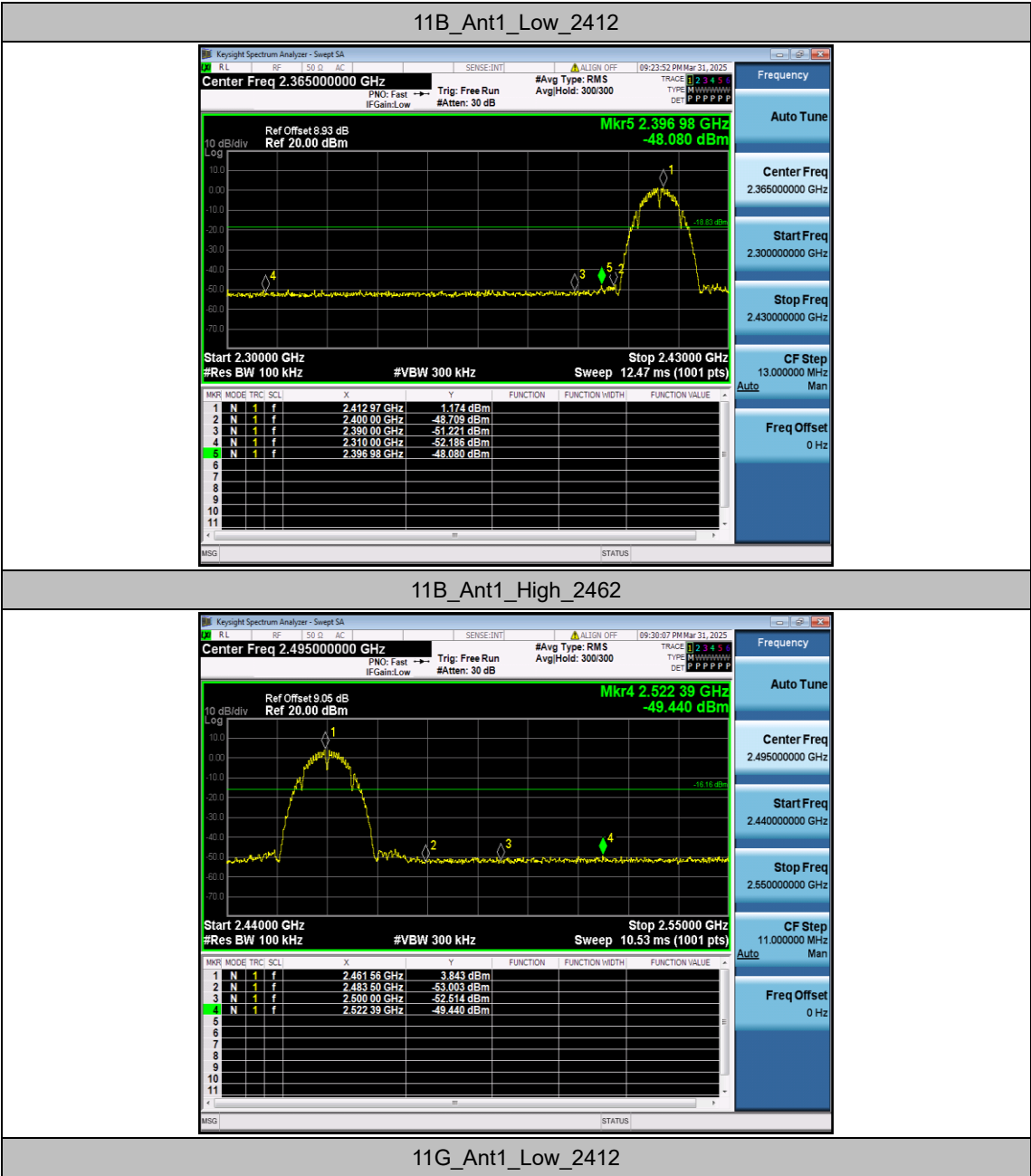


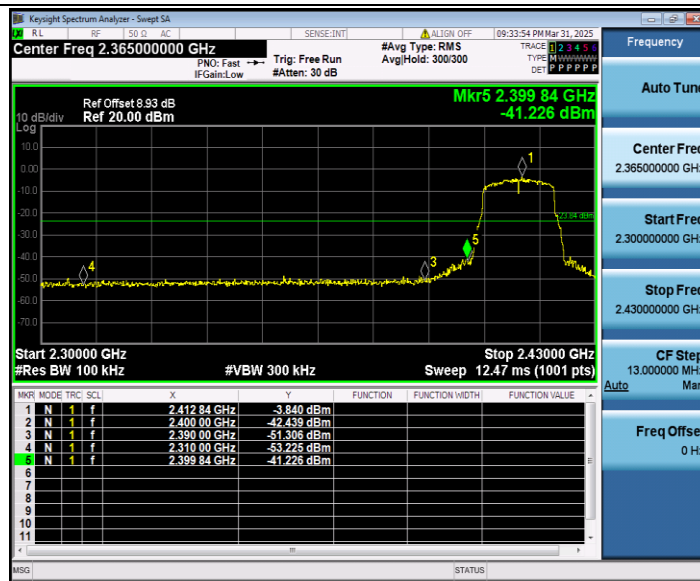
Appendix A.5: Band edge measurements

Test Result

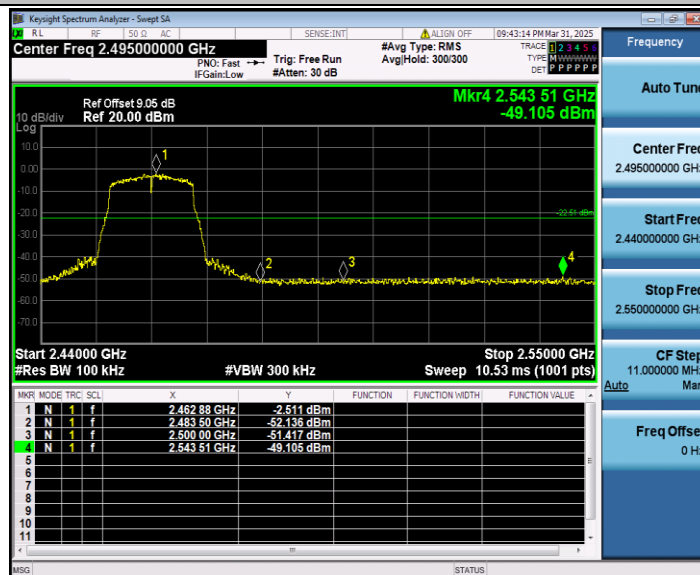
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.17	-48.08	≤-18.83	PASS
		High	2462	3.84	-49.44	≤-16.16	PASS
11G	Ant1	Low	2412	-3.84	-41.23	≤-23.84	PASS
		High	2462	-2.51	-49.11	≤-22.51	PASS
11N20SISO	Ant1	Low	2412	-4.70	-40.72	≤-24.7	PASS
		High	2462	-2.94	-48.76	≤-22.94	PASS
11N40SISO	Ant1	Low	2422	-6.07	-42.56	≤-26.07	PASS
		High	2452	-5.74	-47.26	≤-25.74	PASS

Test Graphs

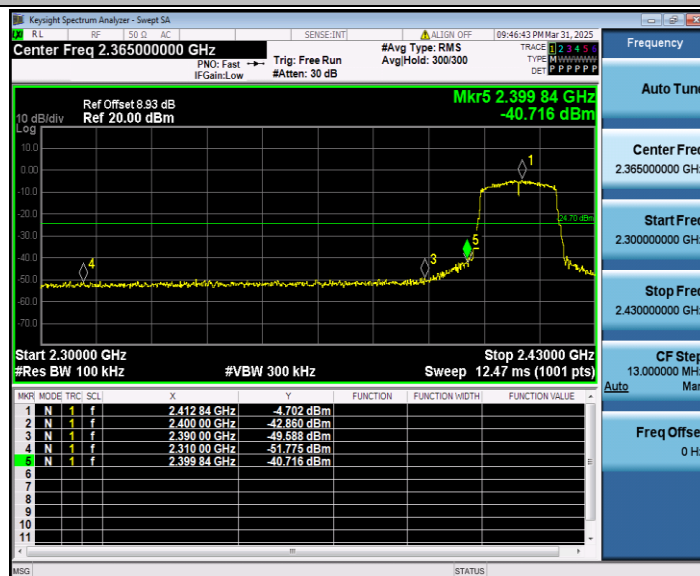




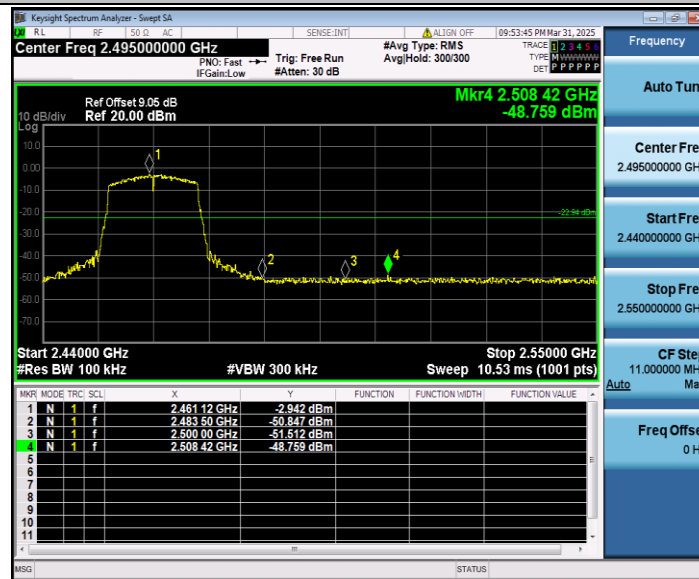
11G_Ant1_High_2462



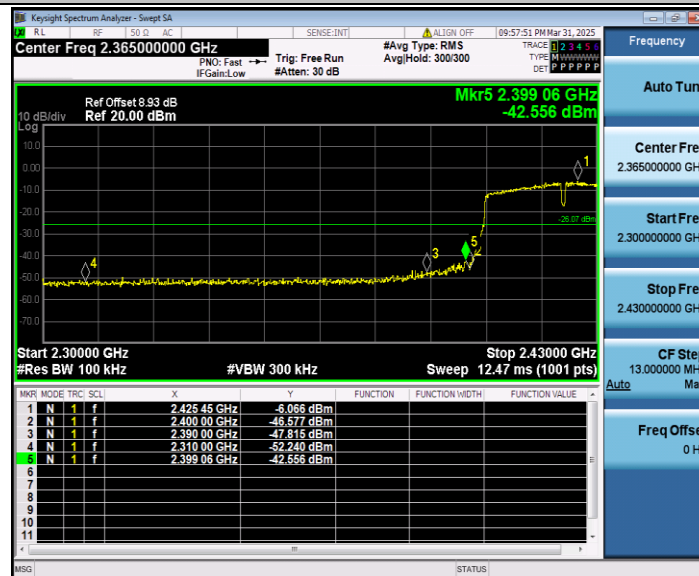
11N20SISO_Ant1_Low_2412



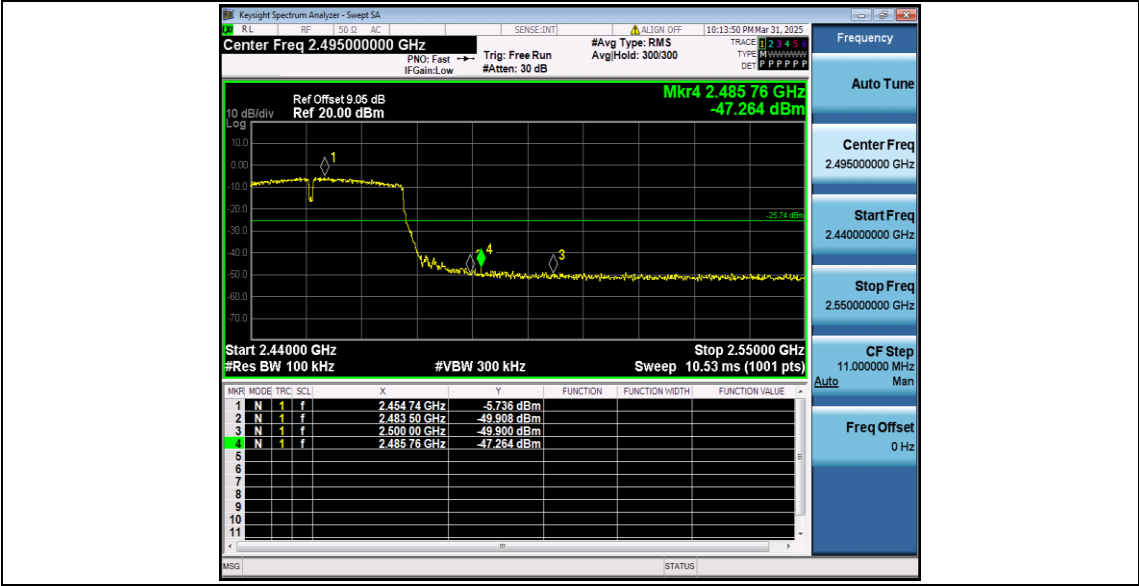
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

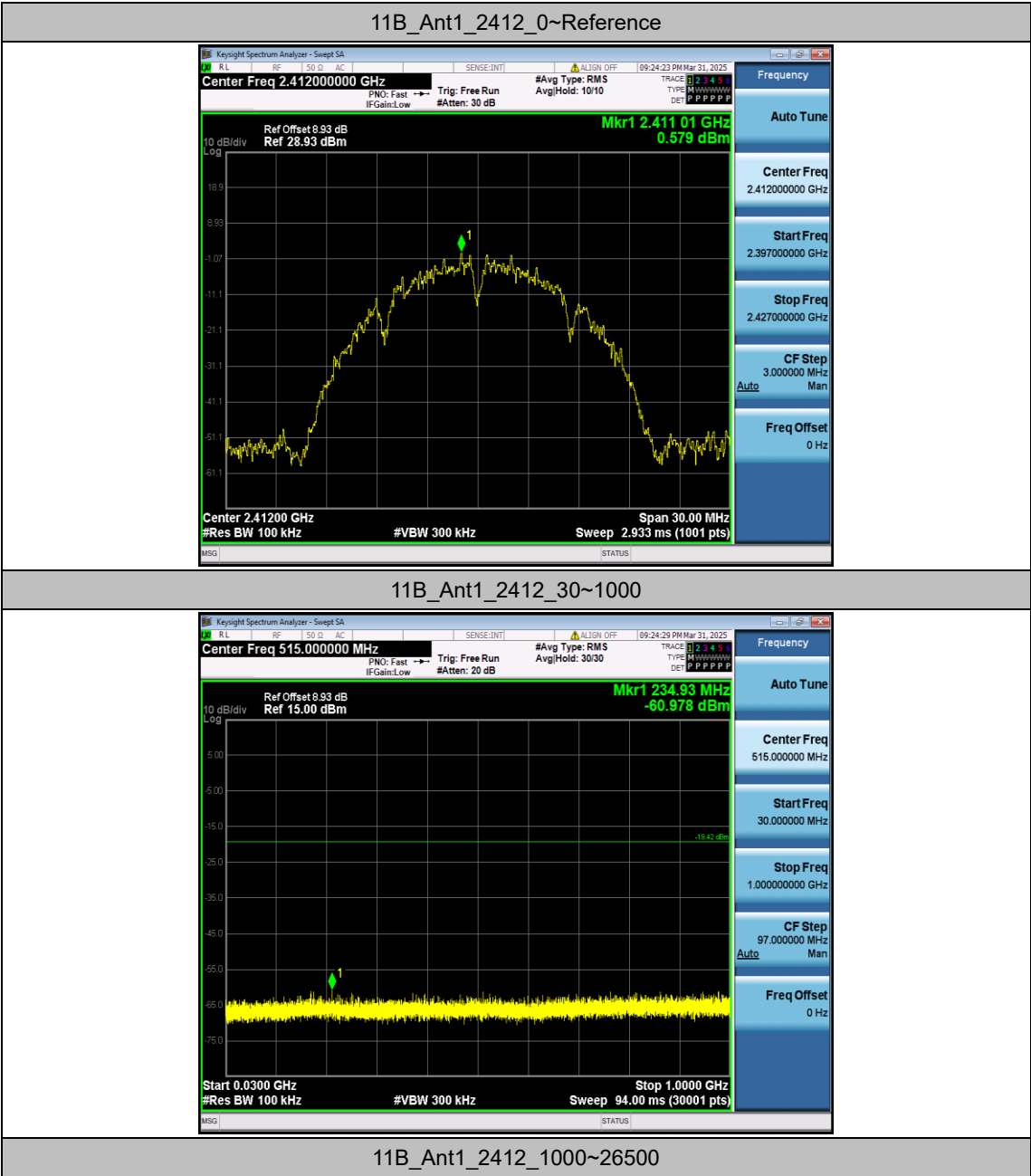


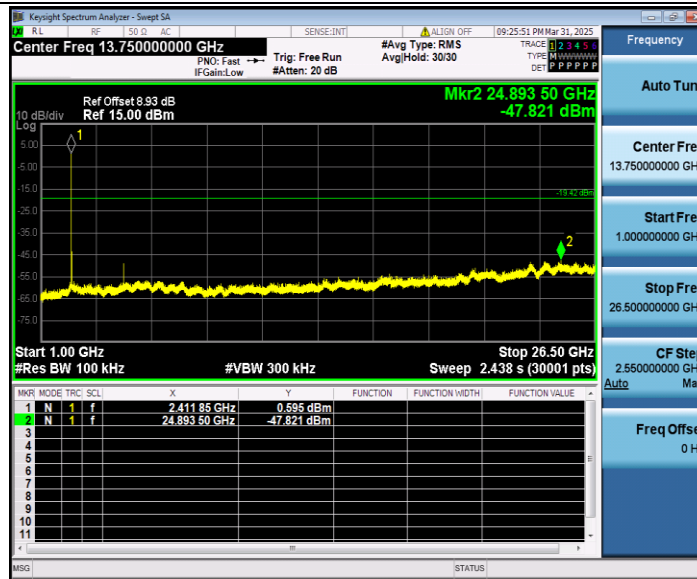
Appendix A.6: Conducted Spurious Emission

Test Result

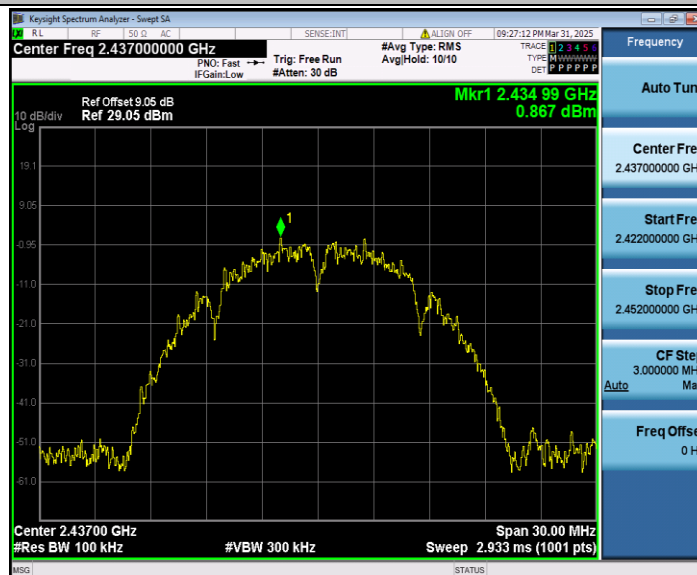
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.58	0.58	---	PASS
			30~1000	0.58	-60.98	≤-19.42	PASS
			1000~26500	0.58	-47.82	≤-19.42	PASS
		2437	Reference	0.87	0.87	---	PASS
			30~1000	0.87	-60.13	≤-19.13	PASS
			1000~26500	0.87	-47.83	≤-19.13	PASS
		2462	Reference	2.46	2.46	---	PASS
			30~1000	2.46	-60.37	≤-17.54	PASS
			1000~26500	2.46	-47.88	≤-17.54	PASS
11G	Ant1	2412	Reference	-4.84	-4.84	---	PASS
			30~1000	-4.84	-61.06	≤-24.84	PASS
			1000~26500	-4.84	-47.95	≤-24.84	PASS
		2437	Reference	-3.86	-3.86	---	PASS
			30~1000	-3.86	-60.59	≤-23.86	PASS
			1000~26500	-3.86	-47.56	≤-23.86	PASS
		2462	Reference	-3.96	-3.96	---	PASS
			30~1000	-3.96	-61.4	≤-23.96	PASS
			1000~26500	-3.96	-47.99	≤-23.96	PASS
11N20SISO	Ant1	2412	Reference	-5.78	-5.78	---	PASS
			30~1000	-5.78	-60.59	≤-25.78	PASS
			1000~26500	-5.78	-48.32	≤-25.78	PASS
		2437	Reference	-4.29	-4.29	---	PASS
			30~1000	-4.29	-60.89	≤-24.29	PASS
			1000~26500	-4.29	-47.98	≤-24.29	PASS
		2462	Reference	-3.17	-3.17	---	PASS
			30~1000	-3.17	-60.26	≤-23.17	PASS
			1000~26500	-3.17	-47.86	≤-23.17	PASS
11N40SISO	Ant1	2422	Reference	-6.58	-6.58	---	PASS
			30~1000	-6.58	-60.18	≤-26.58	PASS
			1000~26500	-6.58	-47.73	≤-26.58	PASS
		2437	Reference	-6.29	-6.29	---	PASS
			30~1000	-6.29	-60.34	≤-26.29	PASS
			1000~26500	-6.29	-47.77	≤-26.29	PASS
		2452	Reference	-6.63	-6.63	---	PASS
			30~1000	-6.63	-60.28	≤-26.63	PASS
			1000~26500	-6.63	-47.03	≤-26.63	PASS

Test Graphs

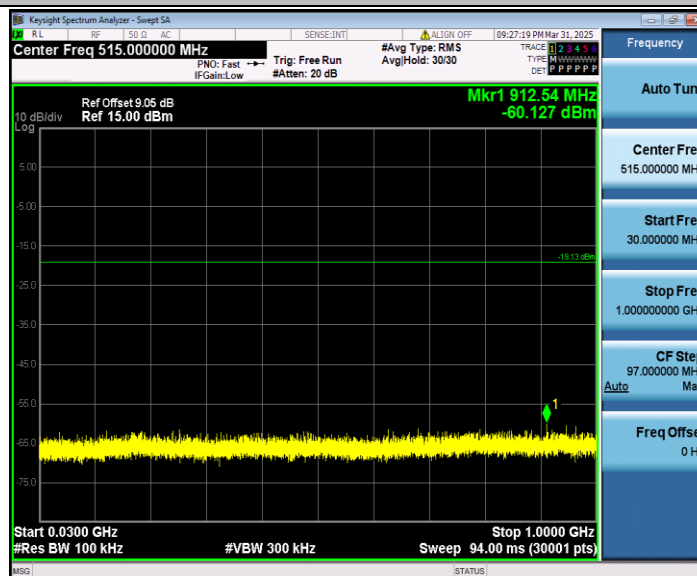




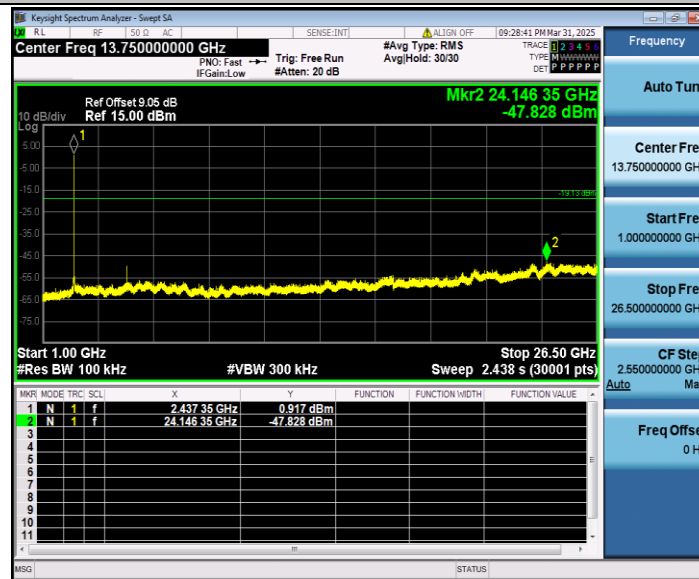
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



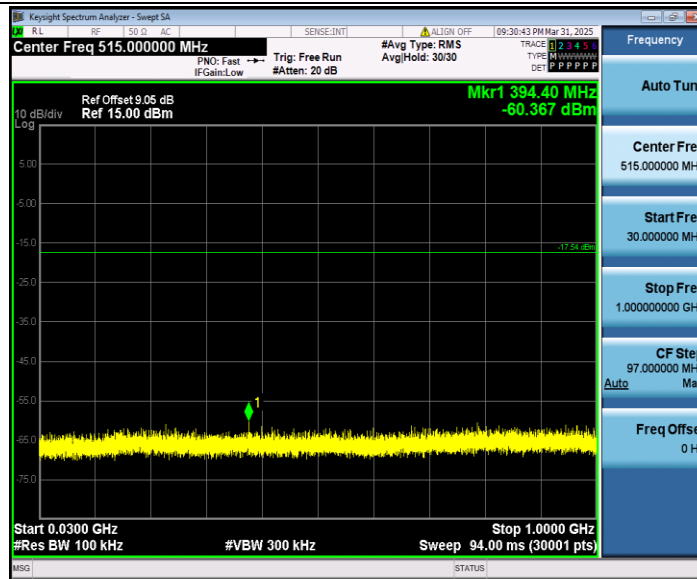
11B_Ant1_2437_1000~26500



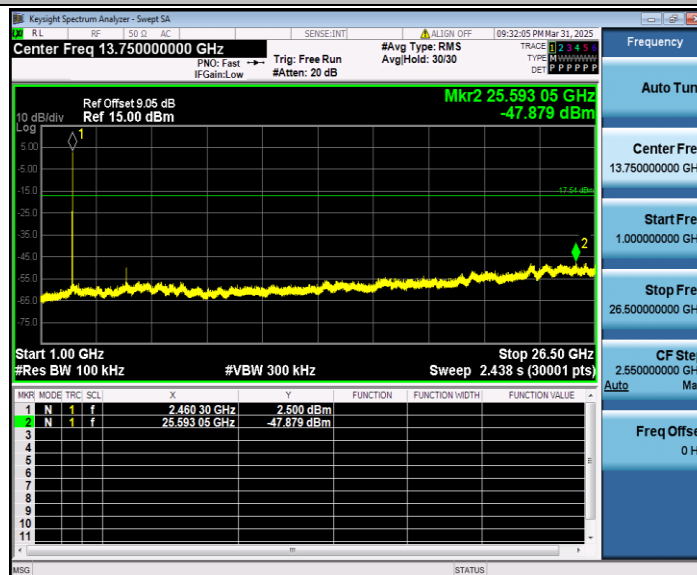
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



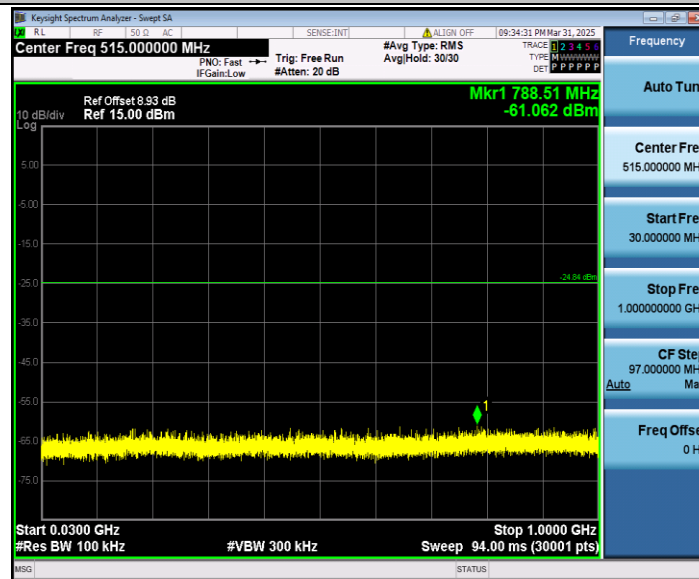
11B_Ant1_2462_1000~26500



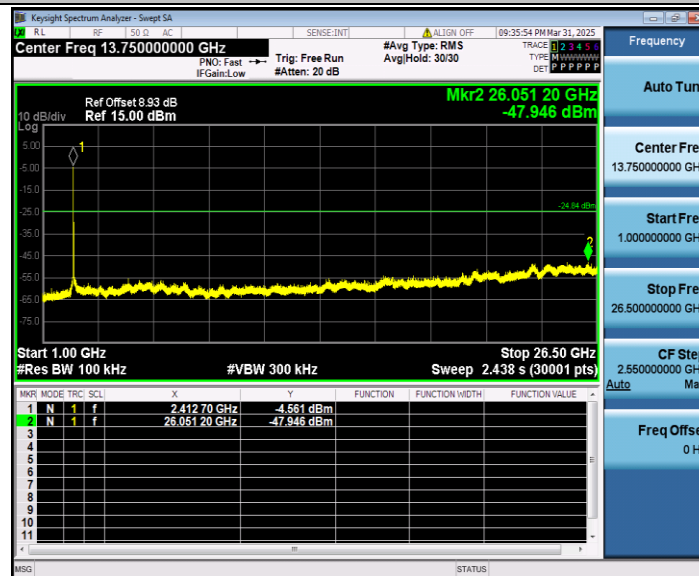
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference