

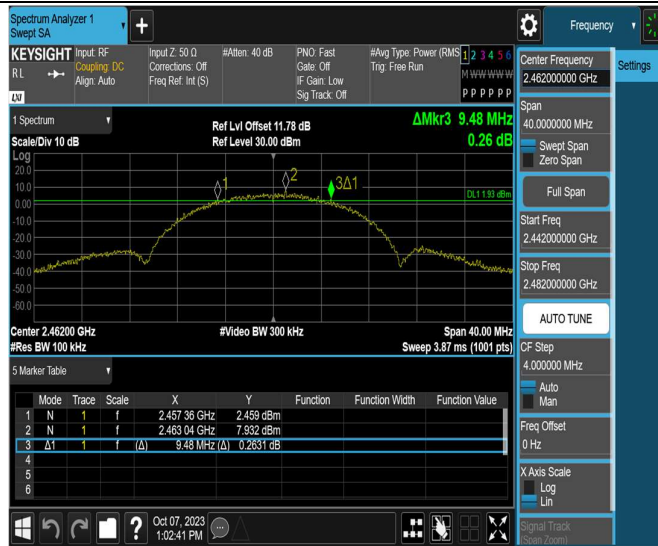
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.960	2407.680	2416.640	0.5	PASS
		2437	10.040	2431.920	2441.960	0.5	PASS
		2462	9.480	2457.360	2466.840	0.5	PASS
11G	Ant1	2412	16.440	2403.760	2420.200	0.5	PASS
		2437	16.440	2428.800	2445.240	0.5	PASS
		2462	16.440	2453.760	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.240	2420.840	0.5	PASS
		2437	17.640	2428.200	2445.840	0.5	PASS
		2462	17.640	2453.200	2470.840	0.5	PASS

Test Graphs





11G_Ant1_2412



11G_Ant1_2437



The screenshot displays a Keysight Spectrum Analyzer interface. The main display shows a frequency spectrum with three markers labeled 1, 2, and 3. The frequency range is from 2.442 GHz to 2.482 GHz, with a span of 40.00 MHz. The markers show the following data:

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.453 76 GHz	-3.699 dBm		
2	N	1	f	2.463 24 GHz	-1.895 dBm		
3	Δ1	1	f	(Δ)	16.44 MHz (Δ)	1.723 dB	

The interface also includes various control panels for input, settings, and measurement data. The top panel shows the center frequency at 2.46200000 GHz and the span at 40.000000 MHz. The right panel shows the start and stop frequencies, and the bottom panel shows the marker table.

The screenshot displays a Keysight Spectrum Analyzer interface. The main display shows a signal spectrum with two peaks labeled '2' and 'Δ1'. The peak 'Δ1' is highlighted with a green line and a green label. The spectrum is centered at 2.41200 GHz with a span of 40.00 MHz. The resolution bandwidth (RBW) is 100 kHz and the video bandwidth (VBW) is 300 kHz. The sweep time is 3.87 ms (1001 pts).

The interface includes several control panels:

- Top Panel:** Spectrum Analyzer 1, Sweep SA, Input RF, Coupling DC, Input Z: 50 Ω, Corrections: Off, #Atten: 40 dB, PNO: Fast, Gate: Off, IF Gain: Low, Sig Track: Off, #Avg Type: Power (RMS), Tng: Free Run, Meters: 123456, Meters: P P P P P P.
- Left Panel:** 1 Spectrum, Scale/Div 10 dB, Log, Ref Lvl Offset 11.52 dB, Ref Level 30.00 dBm.
- Right Panel:** Center Frequency 2.41200000 GHz, Span 40.0000000 MHz, Sweep Span Zero Span, Full Span, Start Freq 2.392000000 GHz, Stop Freq 2.432000000 GHz, AUTO TUNE, CF Step 4.000000 MHz, Auto Man, Freq Offset 0 Hz, XAxis Scale Log Lin, Signal Track (Sweep Zoom).
- Marker Table:**

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.403 24 GHz	-2.963 dBm		
2	N	1	f	2.413 28 GHz	2.138 dBm		
3	Δ1	1	f (Δ)	17.60 MHz (Δ)	-0.4170 dB		
4							
5							
6							

The bottom status bar shows the date and time: Oct 07, 2023 2:09:30 PM.

11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



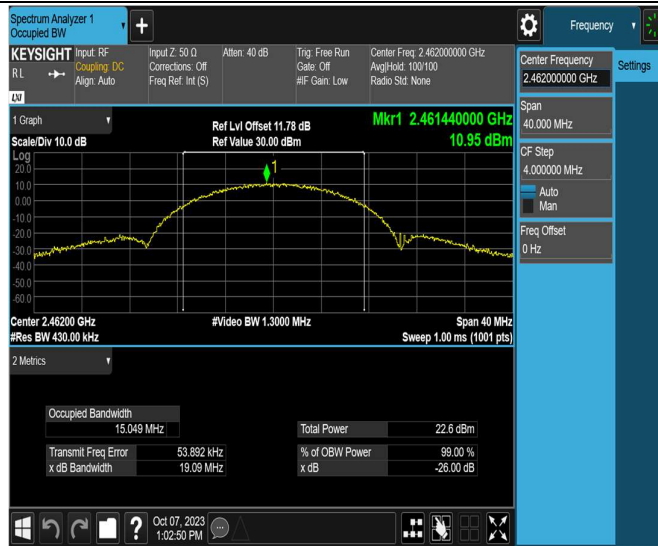
Appendix B: Occupied Channel Bandwidth

Test Result

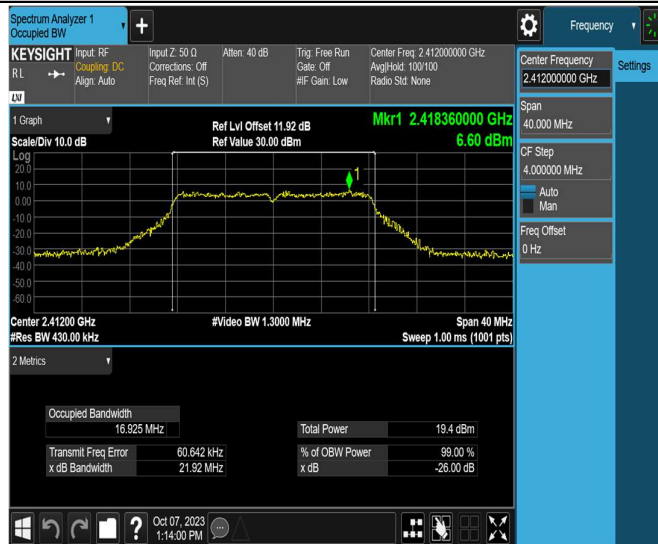
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.043	2404.5114	2419.5544	---	---
		2437	15.044	2429.5022	2444.5462	---	---
		2462	15.049	2454.5294	2469.5784	---	---
11G	Ant1	2412	16.925	2403.5981	2420.5231	---	---
		2437	16.978	2428.6253	2445.6033	---	---
		2462	17.028	2453.5014	2470.5294	---	---
11N20SISO	Ant1	2412	18.065	2403.0006	2421.0656	---	---
		2437	17.962	2428.1013	2446.0633	---	---
		2462	18.023	2453.0221	2471.0451	---	---

Test Graphs

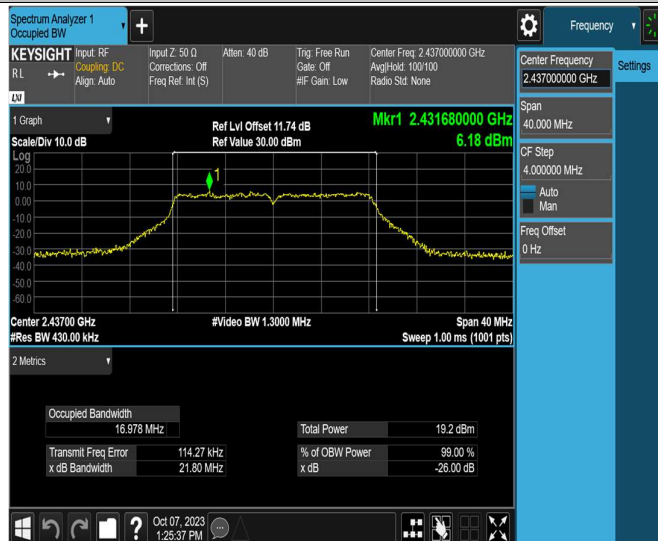




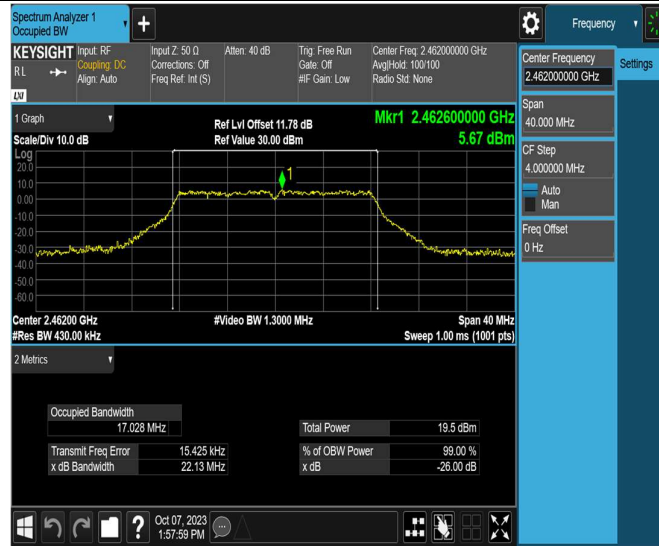
11G_Ant1_2412



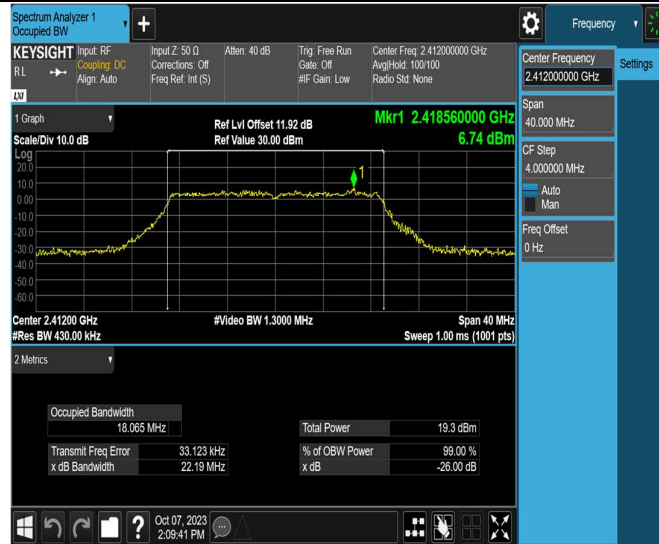
11G_Ant1_2437



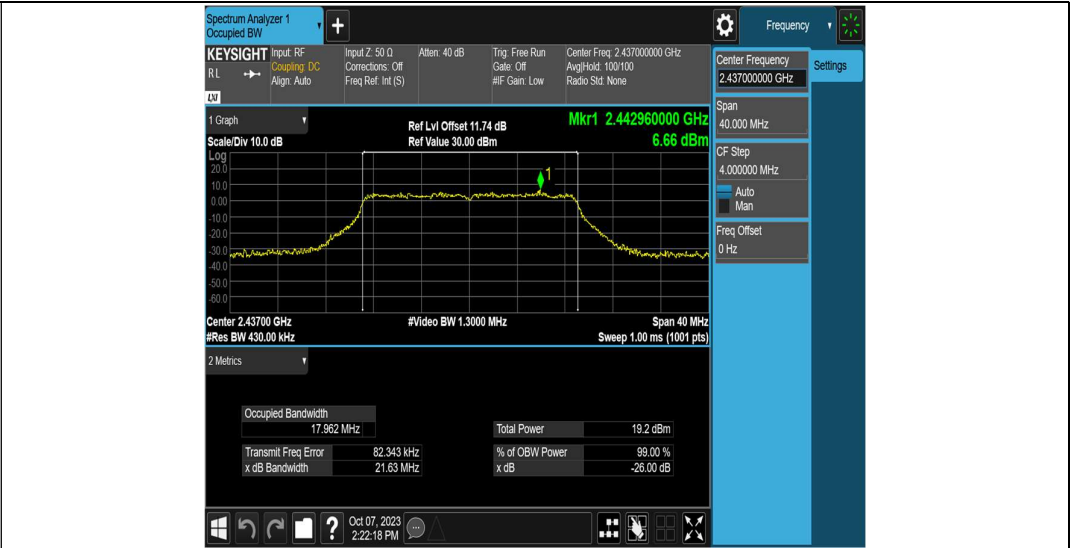
11G_Ant1_2462



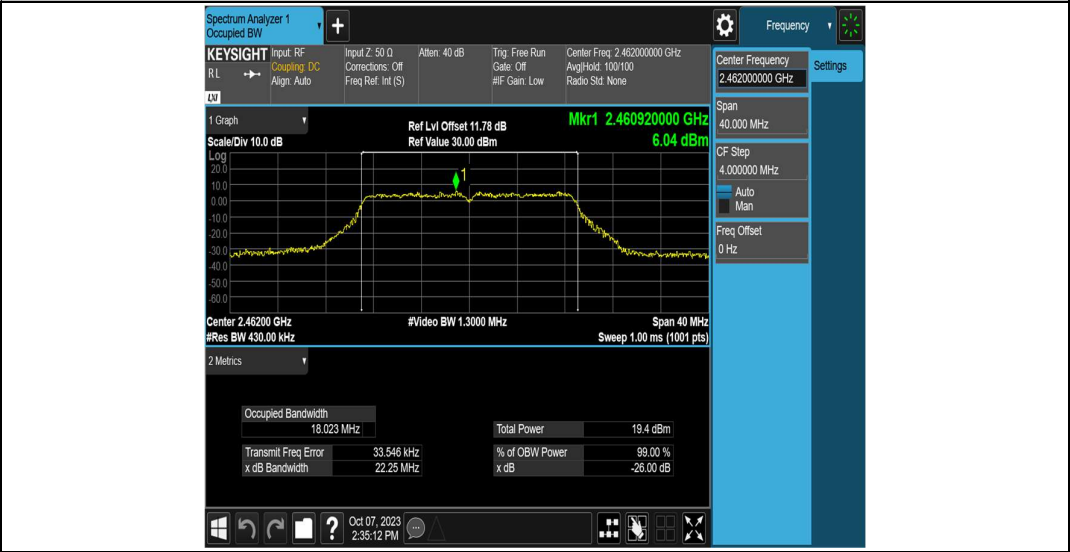
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Frequen cy[MHz]	Conducted Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	18.03	≤30.00	PASS
		2437	16.21	≤30.00	PASS
		2462	16.15	≤30.00	PASS
11G	Ant1	2412	13.33	≤30.00	PASS
		2437	13.10	≤30.00	PASS
		2462	13.90	≤30.00	PASS
11N20SIS O	Ant1	2412	13.62	≤30.00	PASS
		2437	13.93	≤30.00	PASS
		2462	13.52	≤30.00	PASS

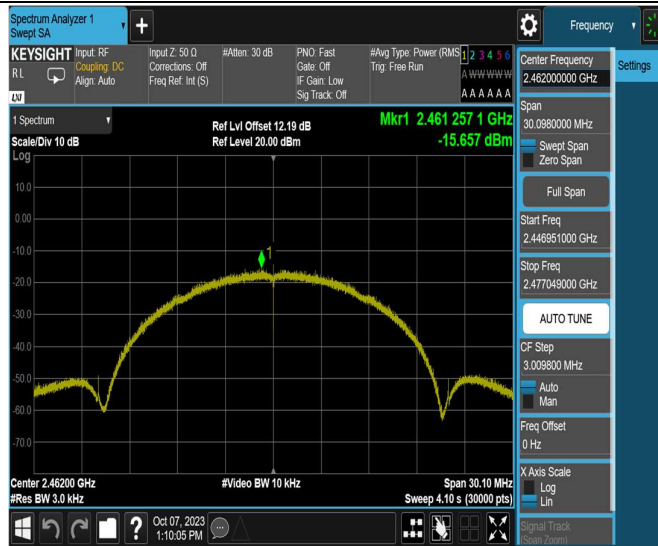
Appendix D: Maximum power spectral density

Test Result

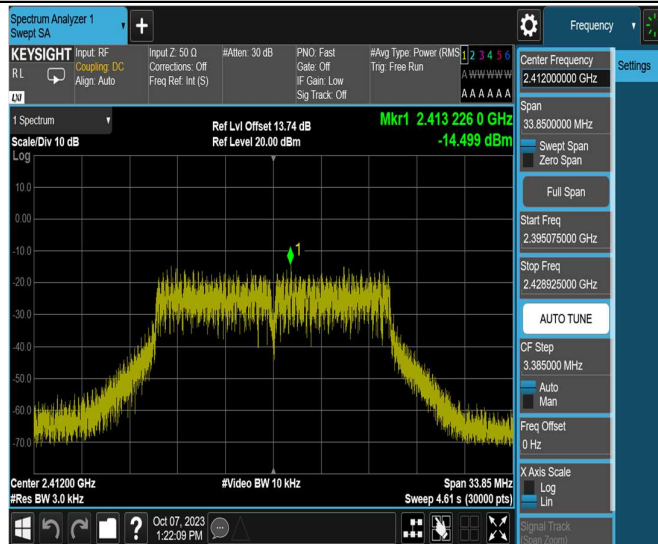
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.85	≤8.00	PASS
		2437	-15	≤8.00	PASS
		2462	-15.66	≤8.00	PASS
11G	Ant1	2412	-14.5	≤8.00	PASS
		2437	-15.59	≤8.00	PASS
		2462	-13.46	≤8.00	PASS
11N20SISO	Ant1	2412	-13.43	≤8.00	PASS
		2437	-14.49	≤8.00	PASS
		2462	-14.03	≤8.00	PASS

Test Graphs

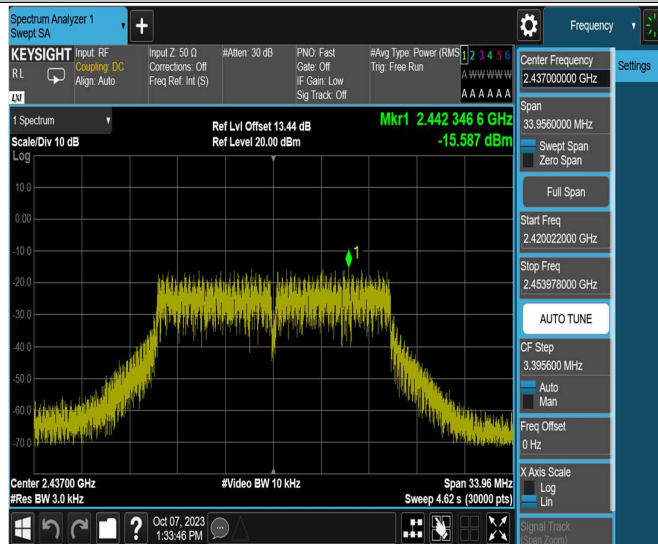




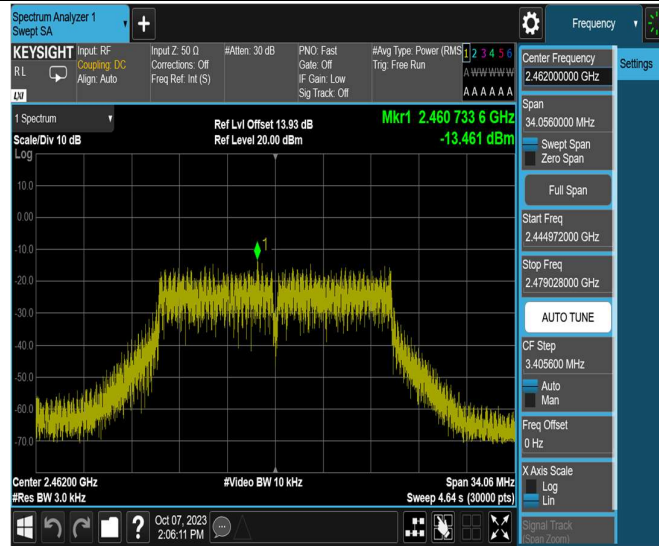
11G_Ant1_2412



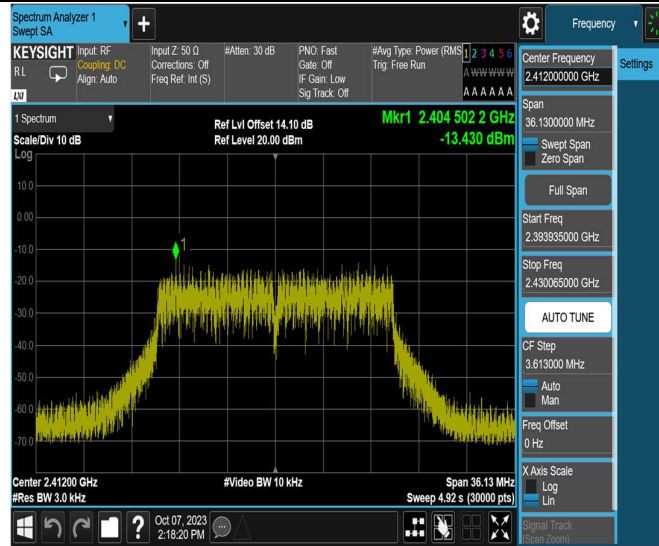
11G_Ant1_2437



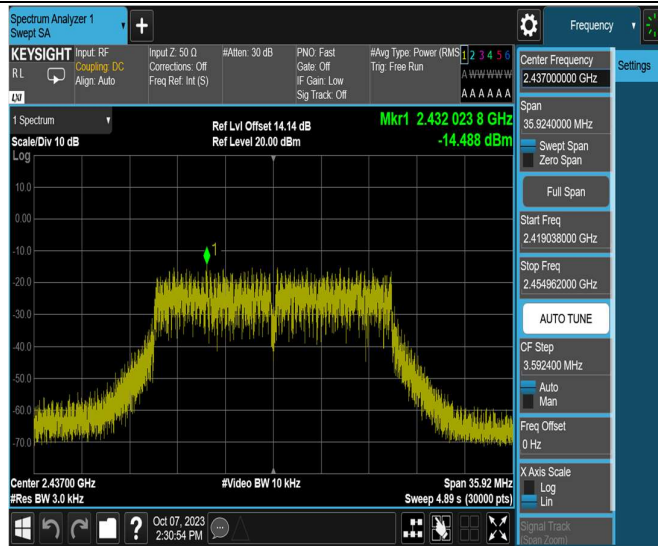
11G_Ant1_2462



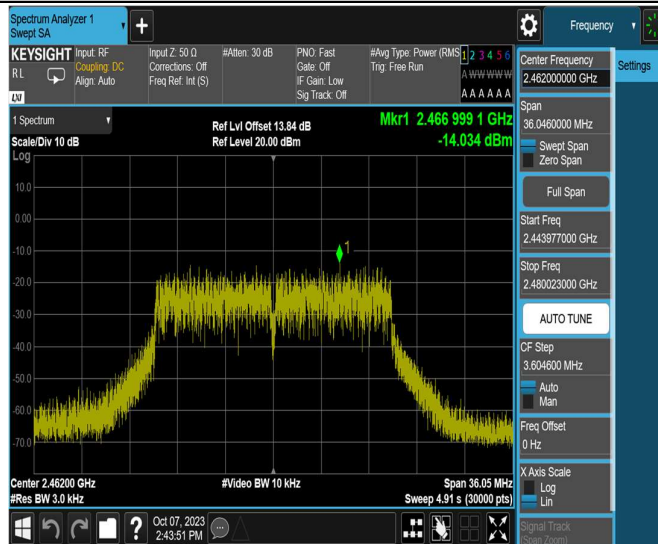
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

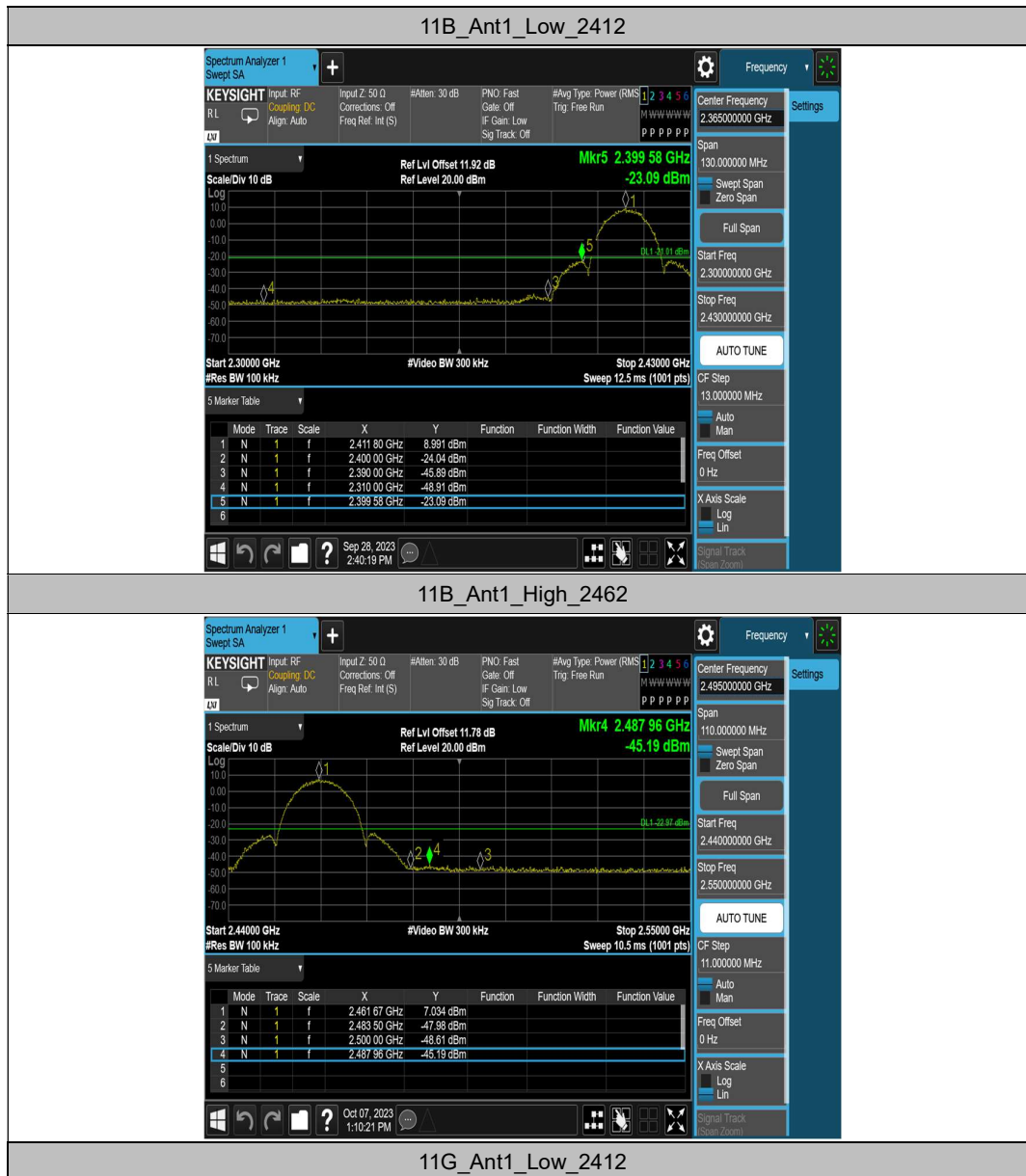


Appendix E: Band edge measurements

Test Result

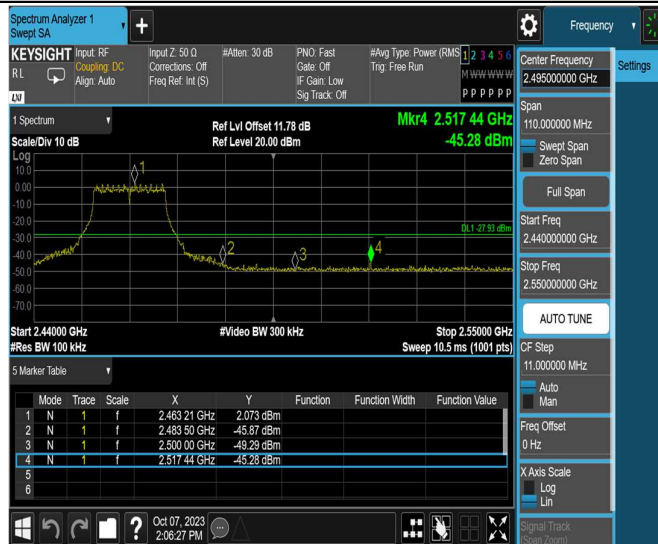
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.99	-23.09	≤-21.01	PASS
		High	2462	7.03	-45.19	≤-22.97	PASS
11G	Ant1	Low	2412	2.01	-34.35	≤-27.99	PASS
		High	2462	2.07	-45.28	≤-27.93	PASS
11N20SISO	Ant1	Low	2412	2.09	-34.84	≤-27.91	PASS
		High	2462	2.19	-45.17	≤-27.81	PASS

Test Graphs





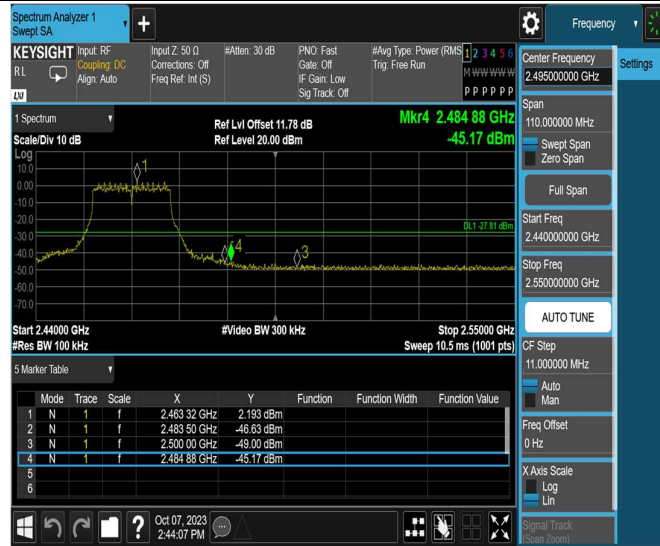
11G_Ant1_High_2462



11N20ISO_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	9.12	9.12	---	PASS
			30~1000	9.12	-58.43	≤-20.88	PASS
			1000~26500	9.12	-50.57	≤-20.88	PASS
		2437	Reference	7.89	7.89	---	PASS
			30~1000	7.89	-57.33	≤-22.11	PASS
			1000~26500	7.89	-49.69	≤-22.11	PASS
		2462	Reference	7.54	7.54	---	PASS
			30~1000	7.54	-58.3	≤-22.46	PASS
			1000~26500	7.54	-50.42	≤-22.46	PASS
11G	Ant1	2412	Reference	2.03	2.03	---	PASS
			30~1000	2.03	-58.19	≤-27.97	PASS
			1000~26500	2.03	-49.96	≤-27.97	PASS
		2437	Reference	2.01	2.01	---	PASS
			30~1000	2.01	-57.83	≤-27.99	PASS
			1000~26500	2.01	-50.63	≤-27.99	PASS
		2462	Reference	2.19	2.19	---	PASS
			30~1000	2.19	-57.18	≤-27.81	PASS
			1000~26500	2.19	-50.02	≤-27.81	PASS
11N20SISO	Ant1	2412	Reference	2.08	2.08	---	PASS
			30~1000	2.08	-57.94	≤-27.92	PASS
			1000~26500	2.08	-50.23	≤-27.92	PASS
		2437	Reference	2.06	2.06	---	PASS
			30~1000	2.06	-58.43	≤-27.94	PASS
			1000~26500	2.06	-50.58	≤-27.94	PASS
		2462	Reference	2.12	2.12	---	PASS
			30~1000	2.12	-57.87	≤-27.88	PASS
			1000~26500	2.12	-49.76	≤-27.88	PASS

Test Graphs

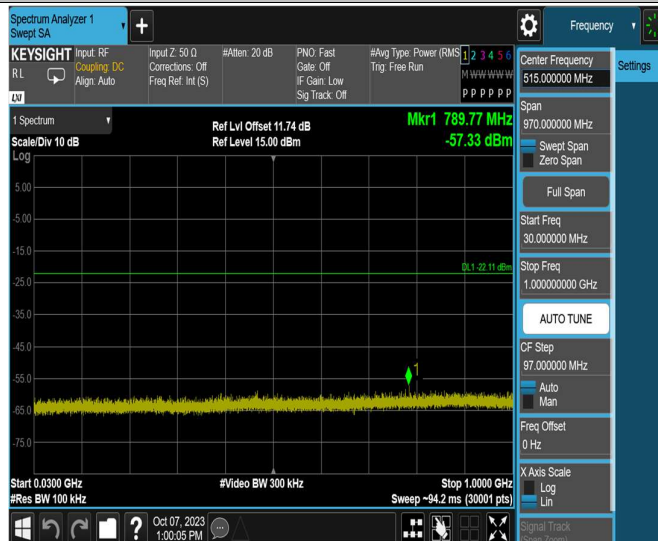




11B_Ant1_2437_0~Reference



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

