

Case No. : <u>GTS20240918012-4-02</u>	
Ambient Condition: <u>22</u> °C, <u>53</u> %RH,	
Test Date: <u>2024.9.24</u>	Test Engineer: <u>Evan ouyang</u>

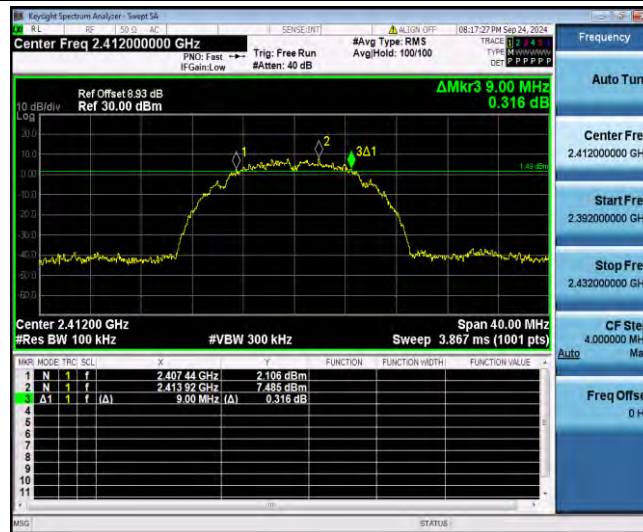
Appendix B.1: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.000	2407.440	2416.440	0.5	PASS
		2437	9.560	2431.960	2441.520	0.5	PASS
		2462	9.320	2457.200	2466.520	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.400	2453.760	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.920	2403.440	2420.360	0.5	PASS
		2437	16.880	2428.480	2445.360	0.5	PASS
		2462	16.360	2453.480	2469.840	0.5	PASS
11N40SISO	Ant1	2422	30.080	2406.960	2437.040	0.5	PASS
		2437	30.080	2421.960	2452.040	0.5	PASS
		2452	30.000	2436.960	2466.960	0.5	PASS
11AX20SISO	Ant1	2412	17.880	2403.080	2420.960	0.5	PASS
		2437	17.960	2427.880	2445.840	0.5	PASS
		2462	17.200	2453.160	2470.360	0.5	PASS

Test Graphs

11B_Ant1_2412



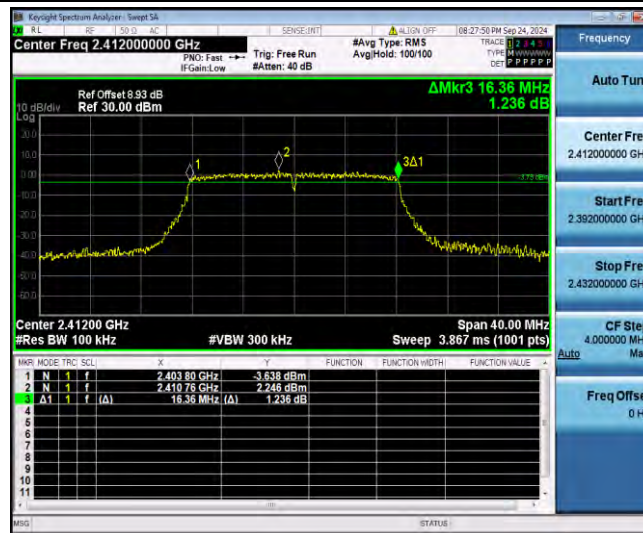
11B_Ant1_2437



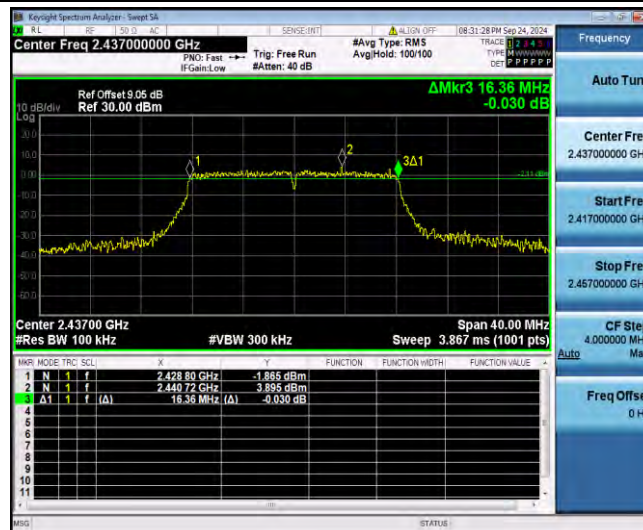
11B_Ant1_2462



11G_Ant1_2412



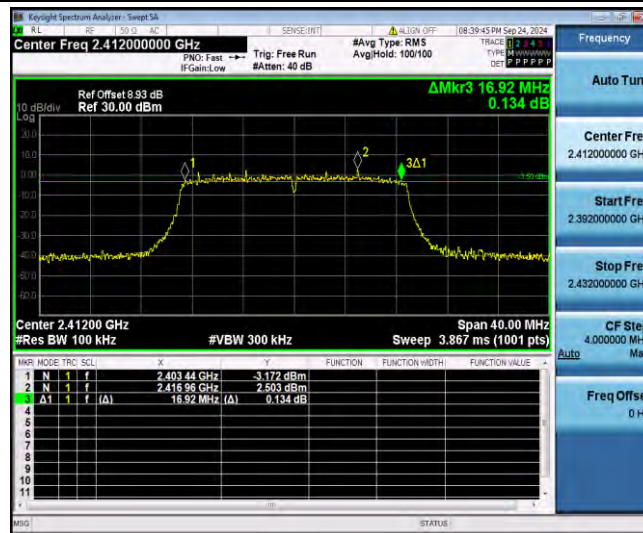
11G_Ant1_2437



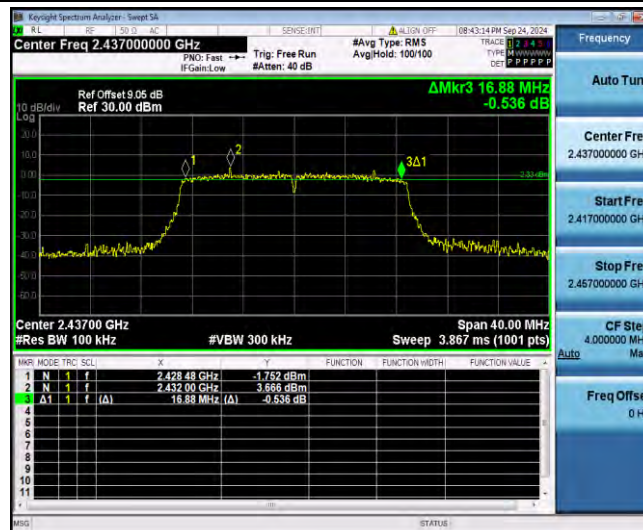
11G_Ant1_2462



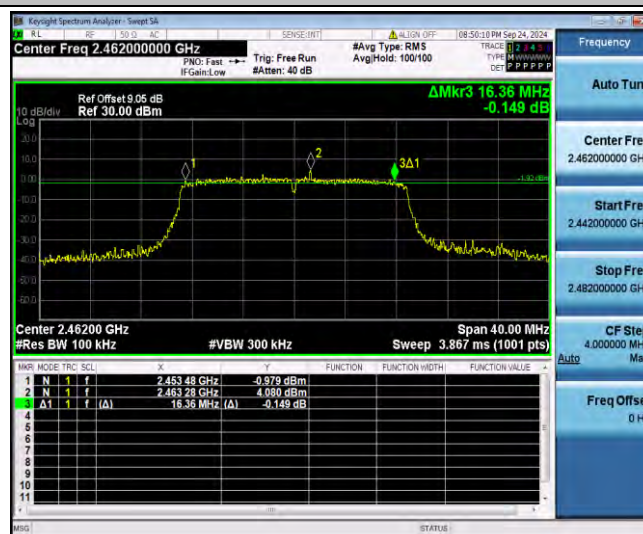
11N20SISO_Ant1_2412



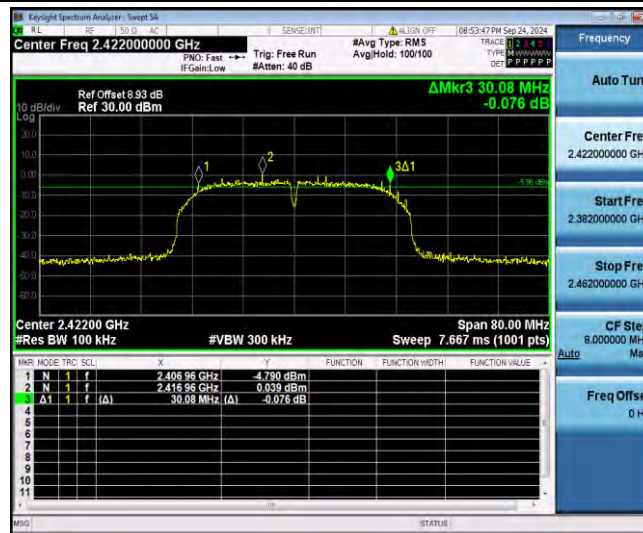
11N20SISO_Ant1_2437



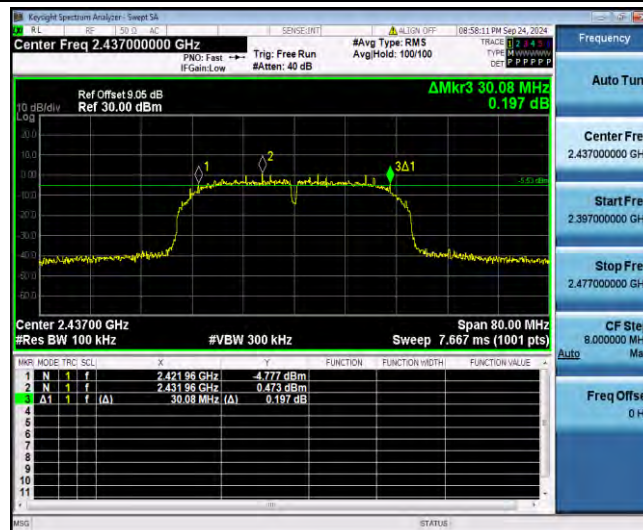
11N20SISO_Ant1_2462



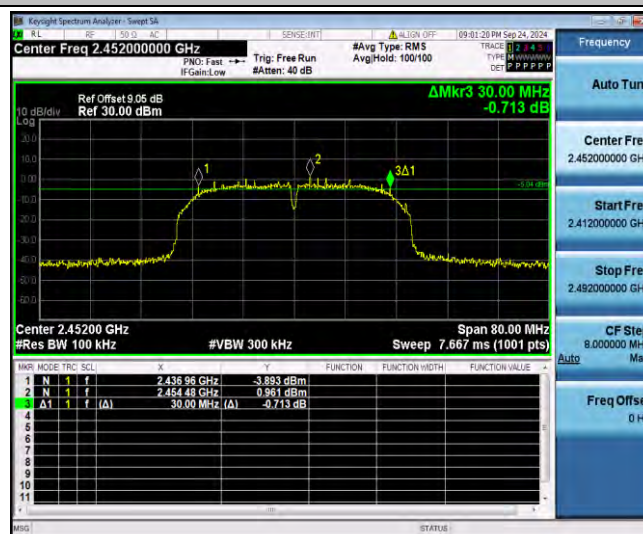
11N40SISO_Ant1_2422



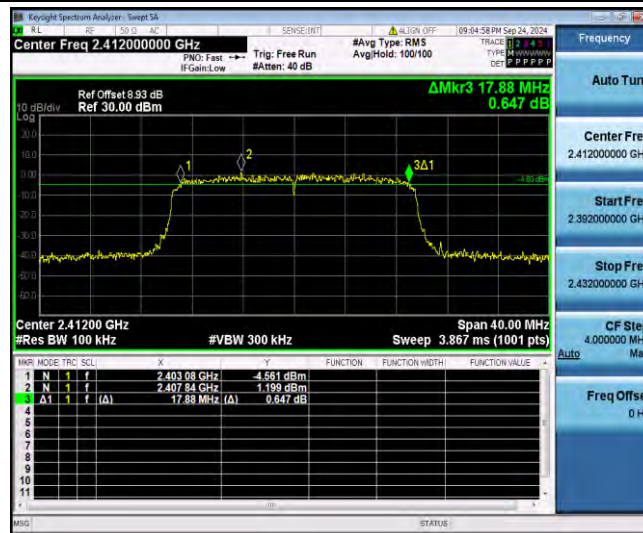
11N40SISO_Ant1_2437



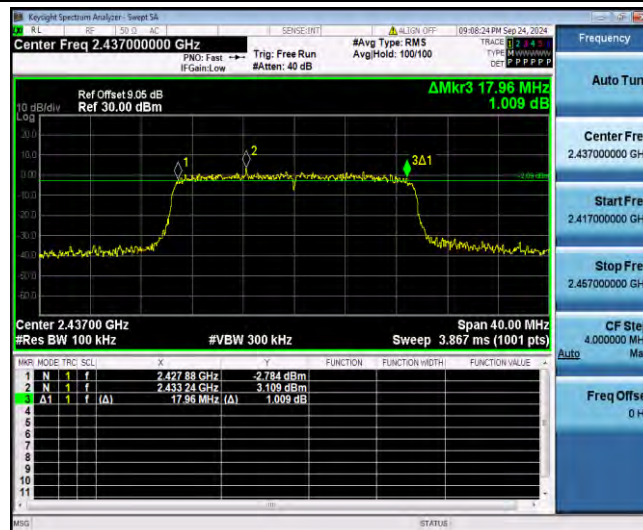
11N40SISO_Ant1_2452



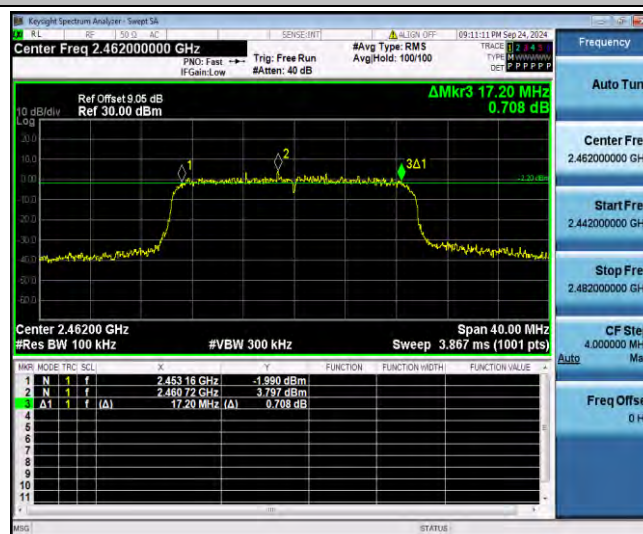
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



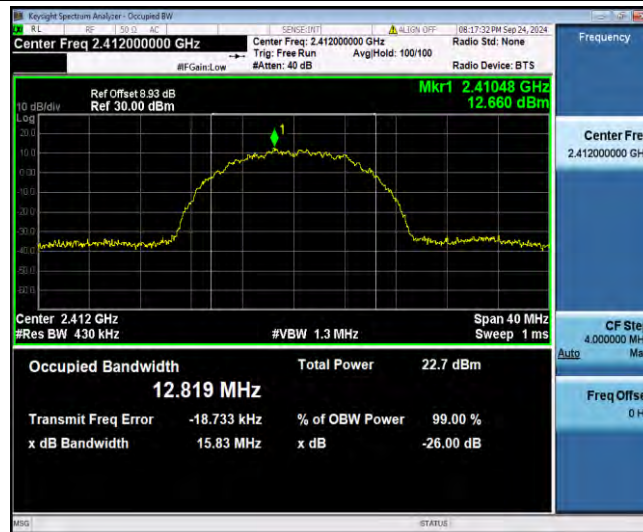
Appendix B.2: Occupied Channel Bandwidth

Test Result

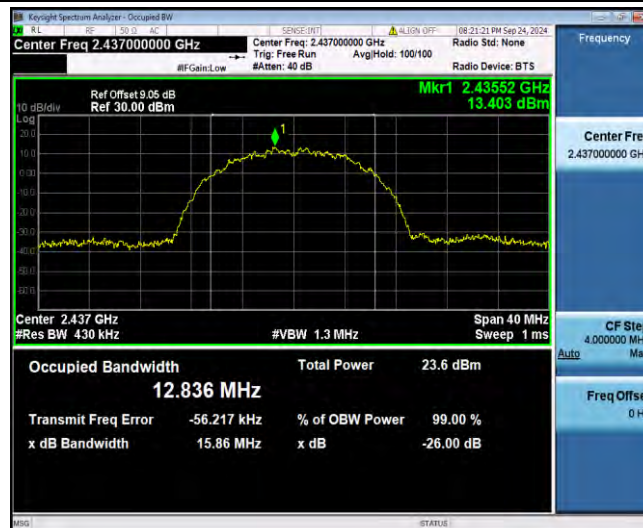
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.819	2405.5718	2418.3908	---	---
		2437	12.836	2430.5258	2443.3618	---	---
		2462	12.788	2455.5512	2468.3392	---	---
11G	Ant1	2412	16.703	2403.6627	2420.3657	---	---
		2437	16.760	2428.6006	2445.3606	---	---
		2462	16.737	2453.6335	2470.3705	---	---
11N20SISO	Ant1	2412	17.669	2403.1515	2420.8205	---	---
		2437	17.699	2428.1271	2445.8261	---	---
		2462	17.642	2453.1814	2470.8234	---	---
11N40SISO	Ant1	2422	32.964	2405.4667	2438.4307	---	---
		2437	33.191	2420.3825	2453.5735	---	---
		2452	33.062	2435.4544	2468.5164	---	---
11AX20SISO	Ant1	2412	18.596	2402.6768	2421.2728	---	---
		2437	18.676	2427.6449	2446.3209	---	---
		2462	18.635	2452.6710	2471.3060	---	---

Test Graphs

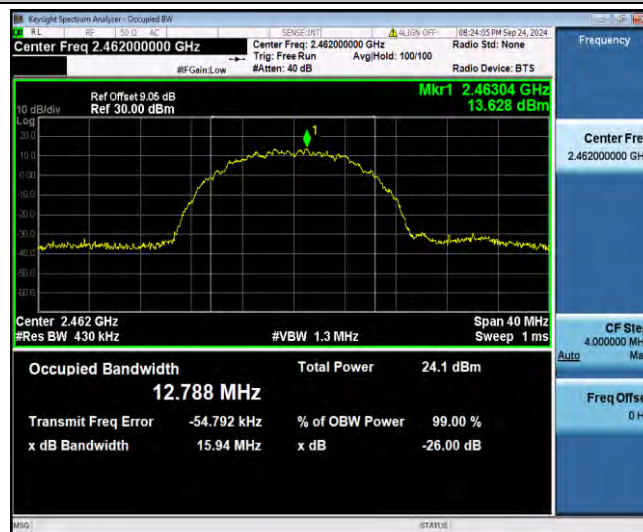
11B_Ant1_2412



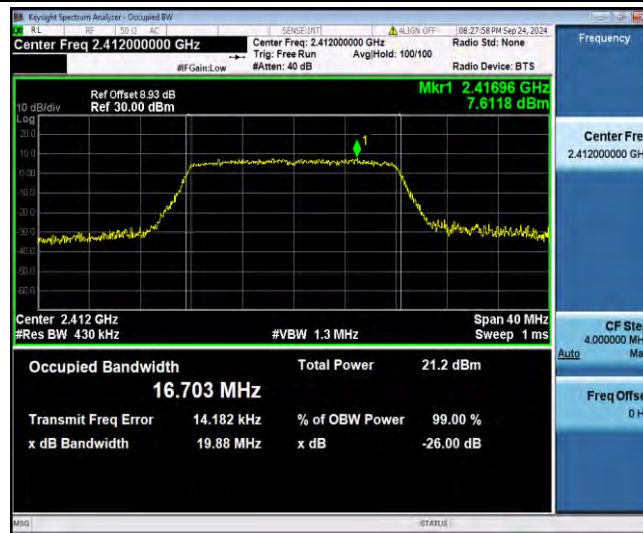
11B_Ant1_2437



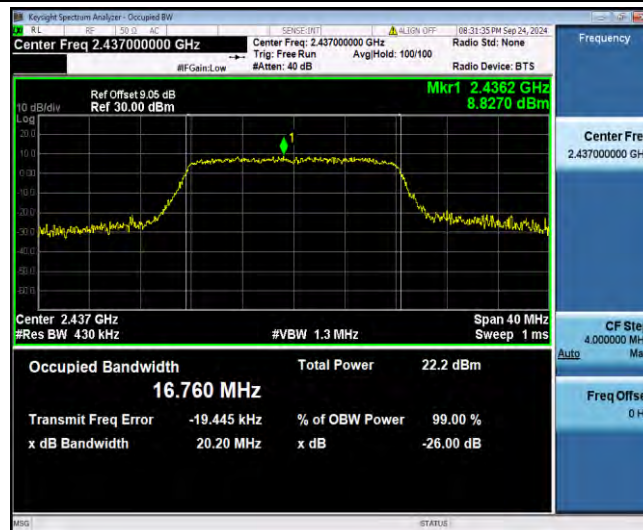
11B_Ant1_2462



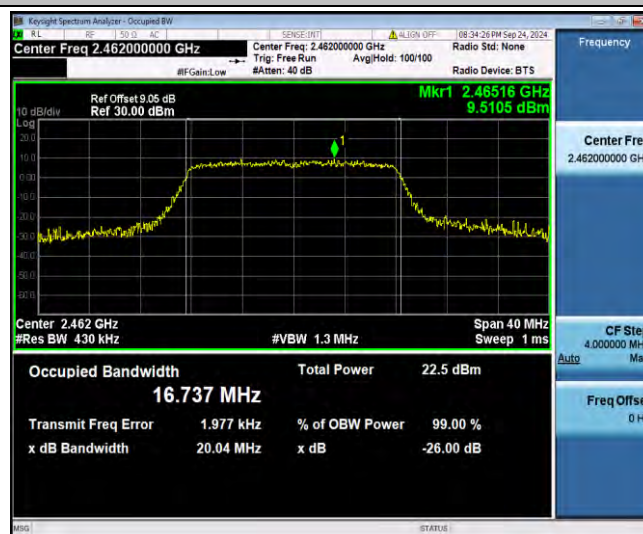
11G_Ant1_2412



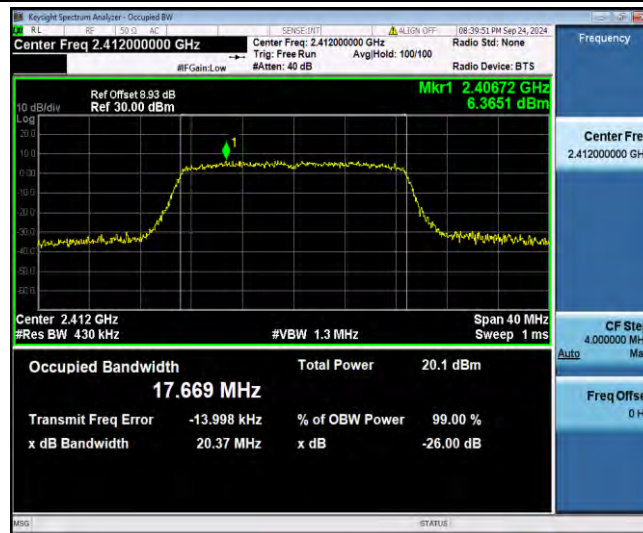
11G_Ant1_2437



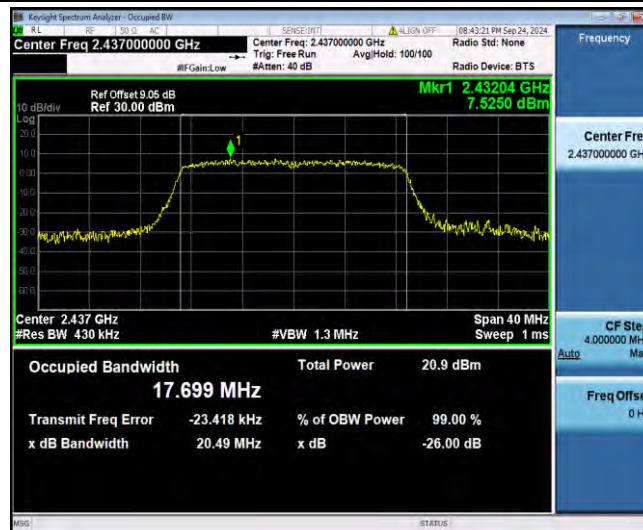
11G_Ant1_2462



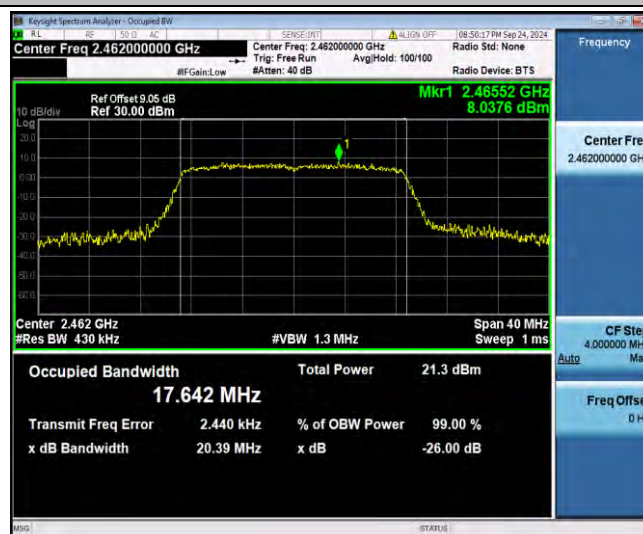
11N20SISO_Ant1_2412



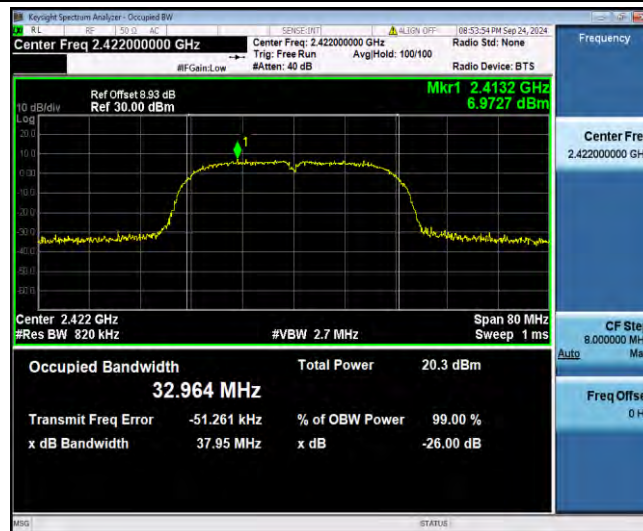
11N20SISO_Ant1_2437



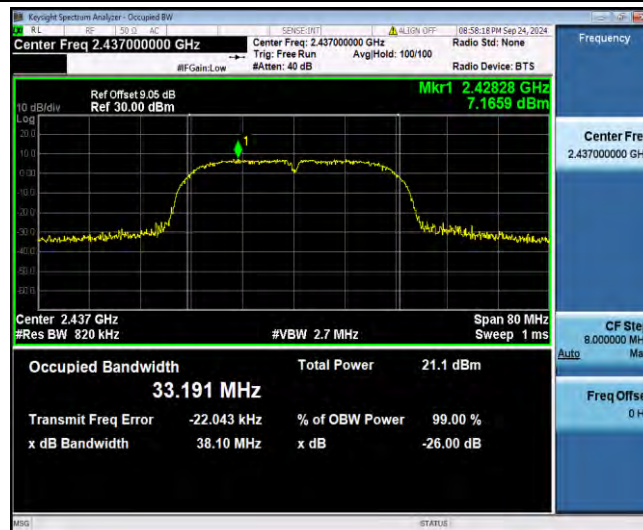
11N20SISO_Ant1_2462



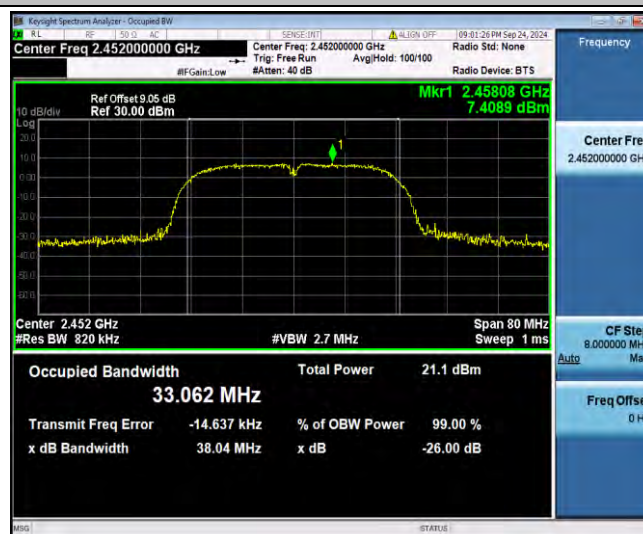
11N40SISO_Ant1_2422



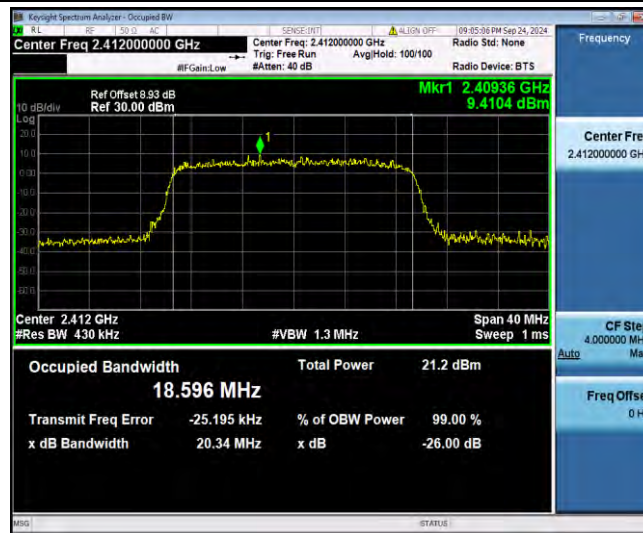
11N40SISO_Ant1_2437



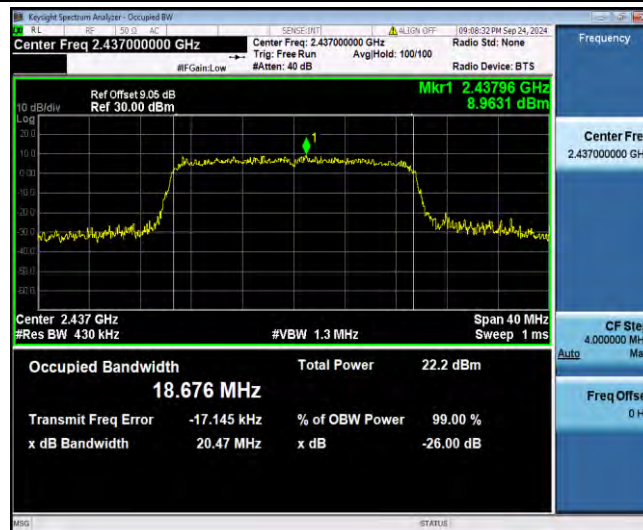
11N40SISO_Ant1_2452



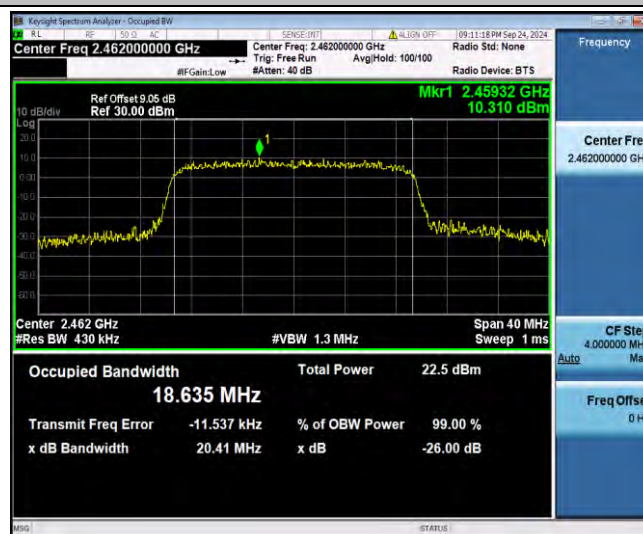
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



Appendix B.3: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	22.92	≤30.00	PASS
		2437	23.70	≤30.00	PASS
		2462	24.27	≤30.00	PASS
11G	Ant1	2412	22.51	≤30.00	PASS
		2437	23.36	≤30.00	PASS
		2462	23.72	≤30.00	PASS
11N20SISO	Ant1	2412	21.31	≤30.00	PASS
		2437	22.08	≤30.00	PASS
		2462	22.43	≤30.00	PASS
11N40SISO	Ant1	2422	20.68	≤30.00	PASS
		2437	21.48	≤30.00	PASS
		2452	21.51	≤30.00	PASS
11AX20SISO	Ant1	2412	21.80	≤30.00	PASS
		2437	22.77	≤30.00	PASS
		2462	23.08	≤30.00	PASS

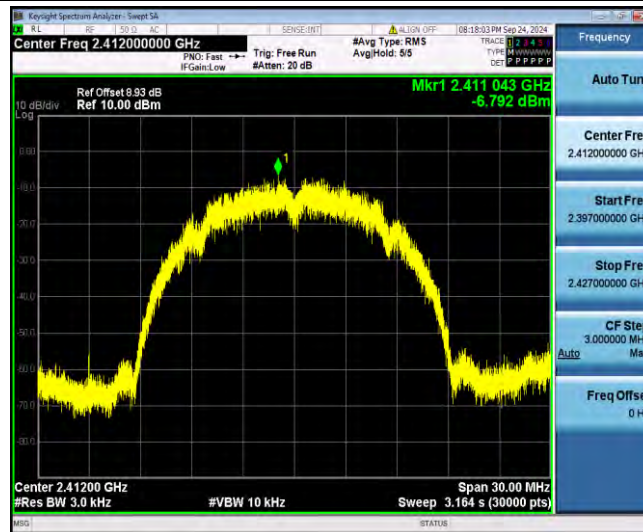
Appendix B.4: Maximum power spectral density

Test Result

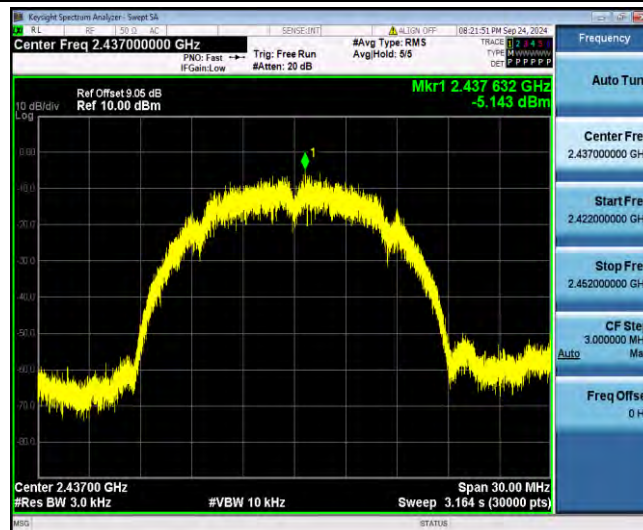
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.79	≤8.00	PASS
		2437	-5.14	≤8.00	PASS
		2462	-5.69	≤8.00	PASS
11G	Ant1	2412	-8.95	≤8.00	PASS
		2437	-8.98	≤8.00	PASS
		2462	-8.38	≤8.00	PASS
11N20SISO	Ant1	2412	-10.94	≤8.00	PASS
		2437	-9.94	≤8.00	PASS
		2462	-9.60	≤8.00	PASS
11N40SISO	Ant1	2422	-14.17	≤8.00	PASS
		2437	-13.05	≤8.00	PASS
		2452	-13.05	≤8.00	PASS
11AX20SISO	Ant1	2412	-8.50	≤8.00	PASS
		2437	-7.41	≤8.00	PASS
		2462	-7.06	≤8.00	PASS

Test Graphs

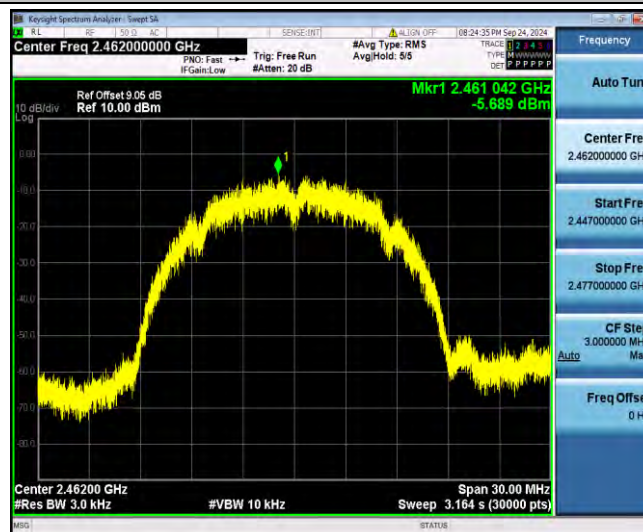
11B_Ant1_2412



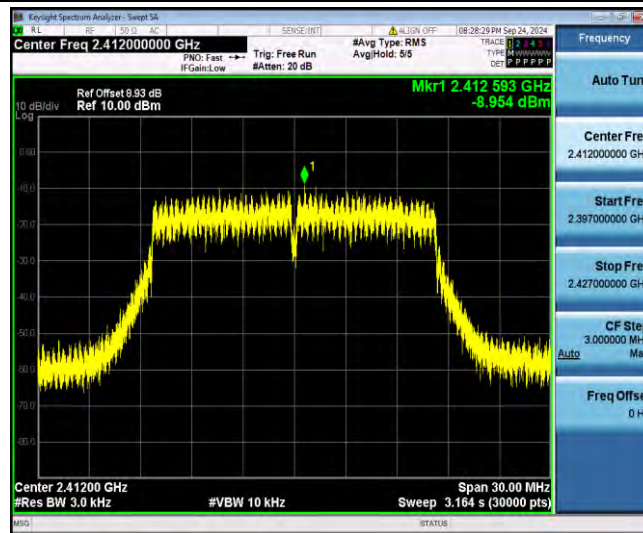
11B_Ant1_2437



11B_Ant1_2462



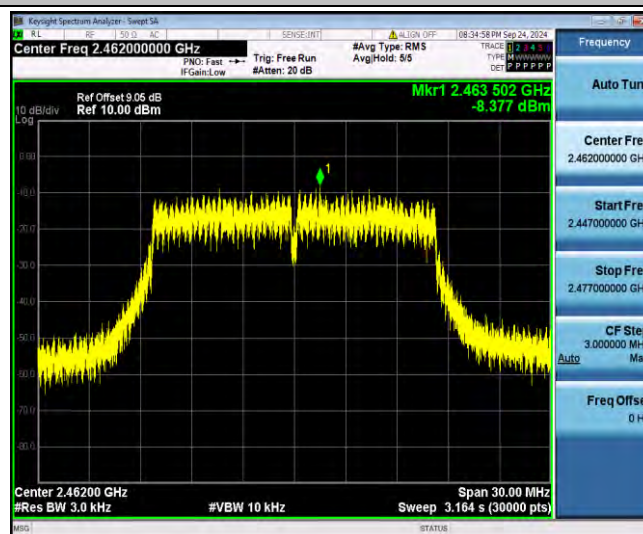
11G_Ant1_2412



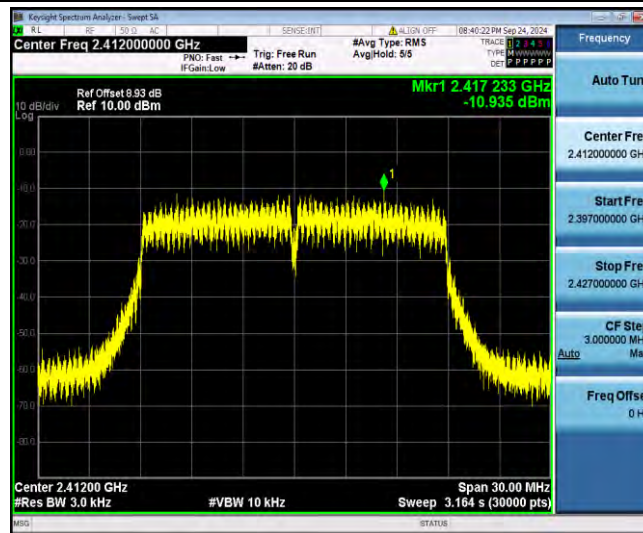
11G_Ant1_2437



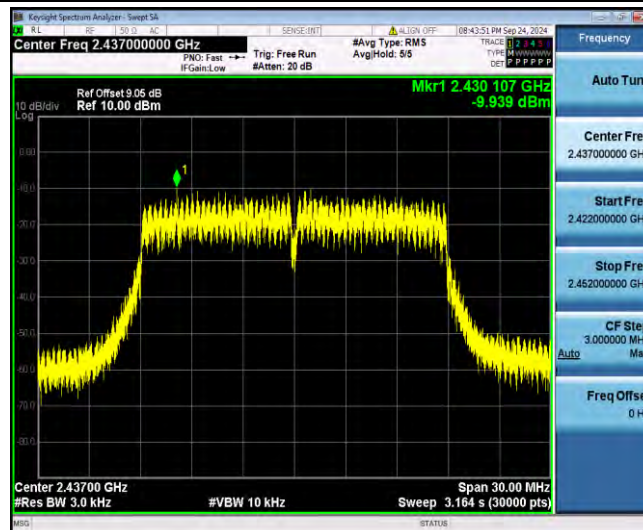
11G_Ant1_2462



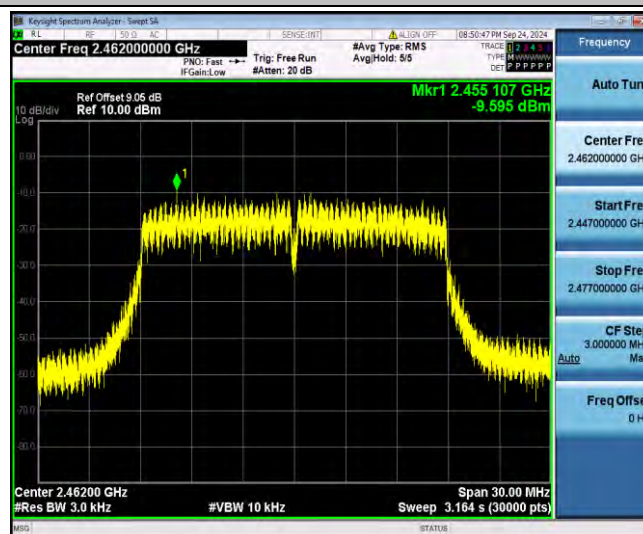
11N20SISO_Ant1_2412



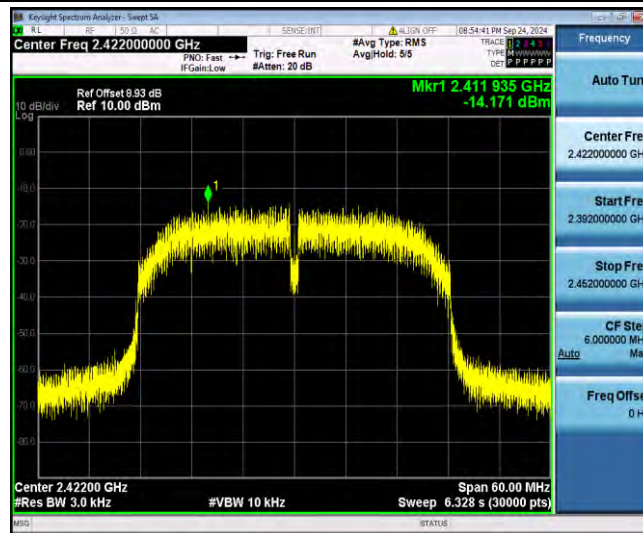
11N20SISO_Ant1_2437



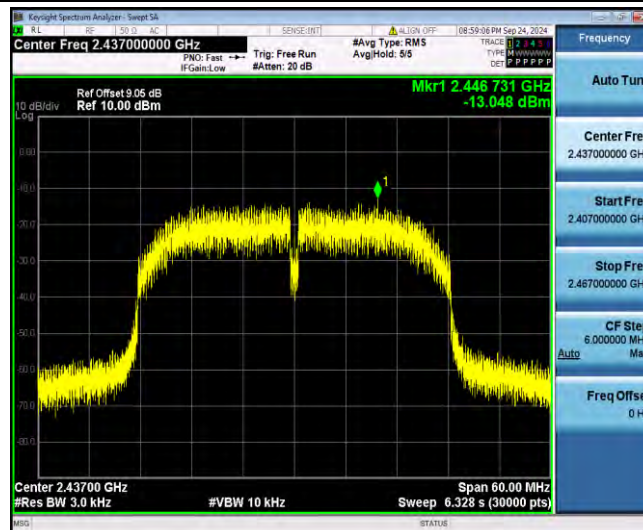
11N20SISO_Ant1_2462



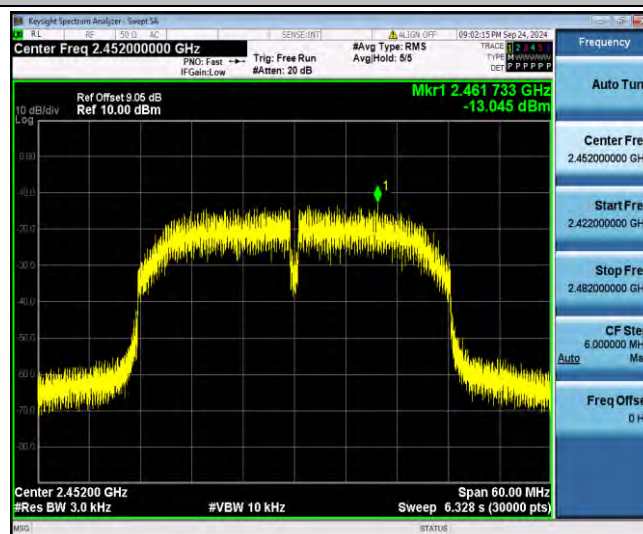
11N40SISO_Ant1_2422



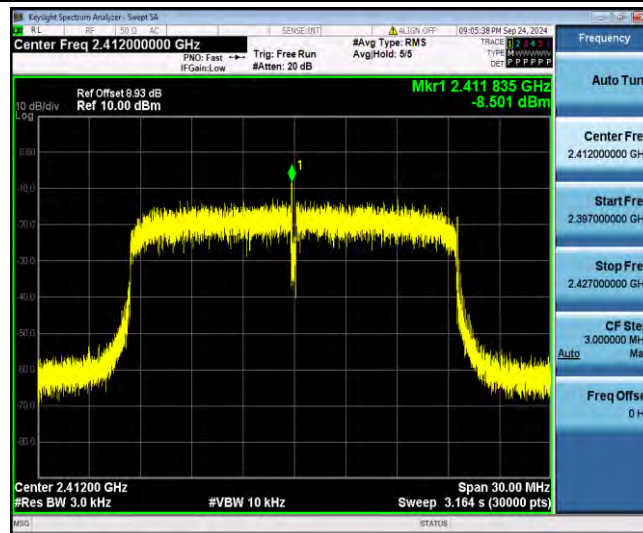
11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



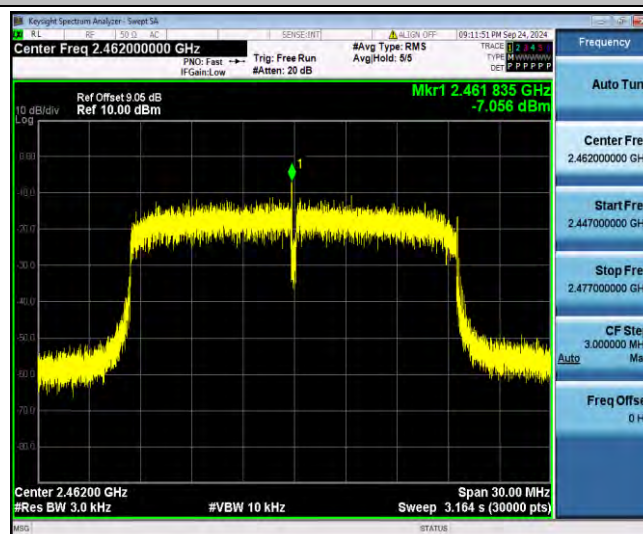
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



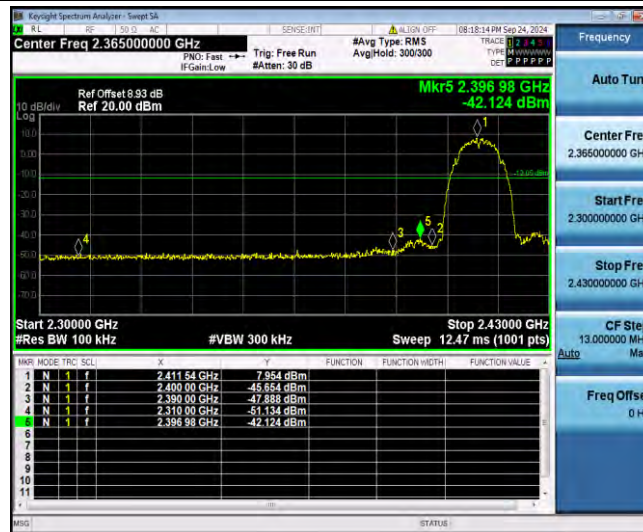
Appendix B.5: Band edge measurements

Test Result

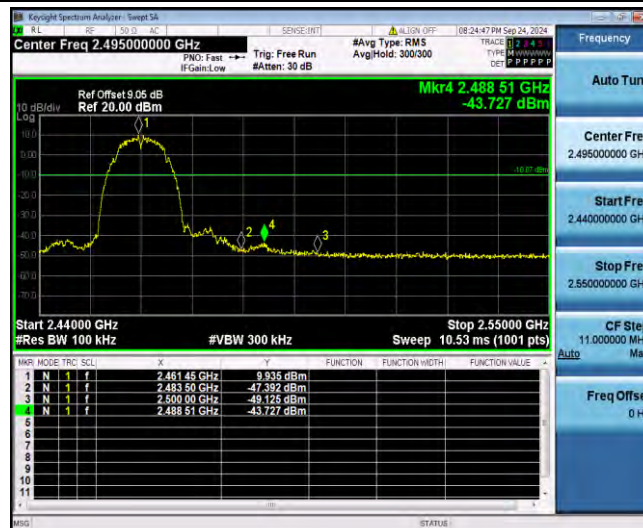
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.95	-42.12	≤ -12.05	PASS
		High	2462	9.94	-43.73	≤ -10.07	PASS
11G	Ant1	Low	2412	3.57	-35.92	≤ -16.43	PASS
		High	2462	5.61	-37.79	≤ -14.4	PASS
11N20SISO	Ant1	Low	2412	2.62	-39.33	≤ -17.38	PASS
		High	2462	3.50	-39.45	≤ -16.5	PASS
11N40SISO	Ant1	Low	2422	0.36	-39.1	≤ -19.64	PASS
		High	2452	0.91	-41.47	≤ -19.09	PASS
11AX20SISO	Ant1	Low	2412	2.40	-39	≤ -17.6	PASS
		High	2462	3.35	-39.51	≤ -16.65	PASS

Test Graphs

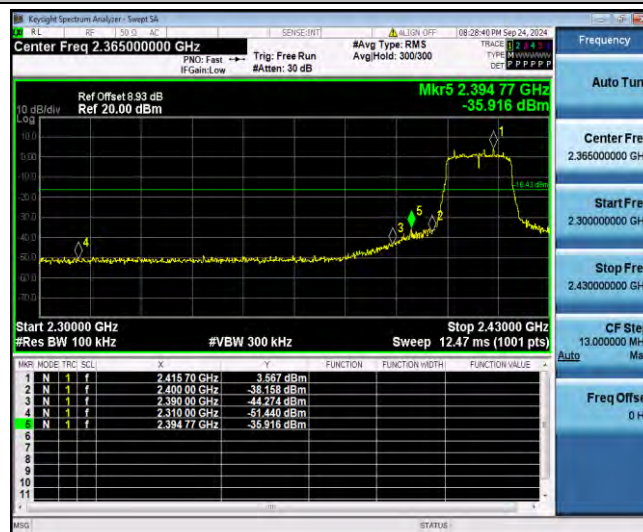
11B_Ant1_Low_2412



11B_Ant1_High_2462



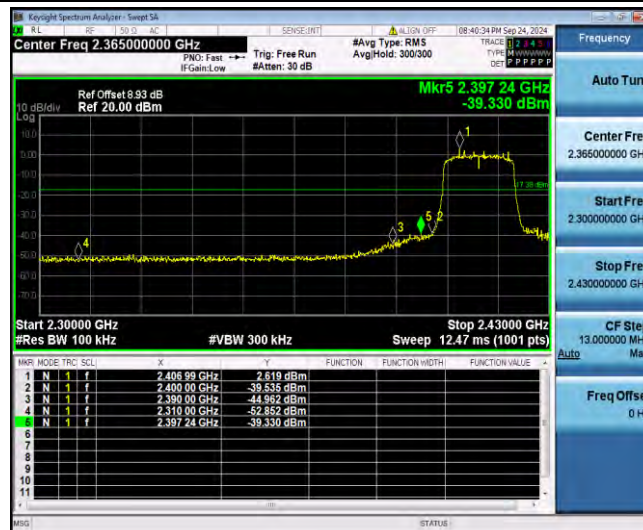
11G_Ant1_Low_2412



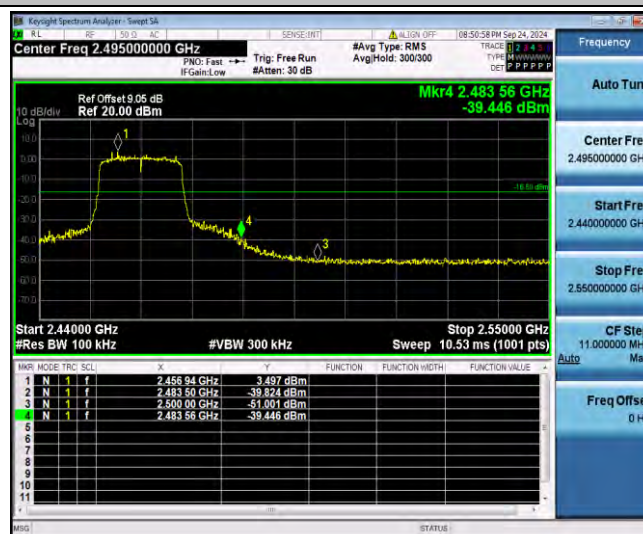
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



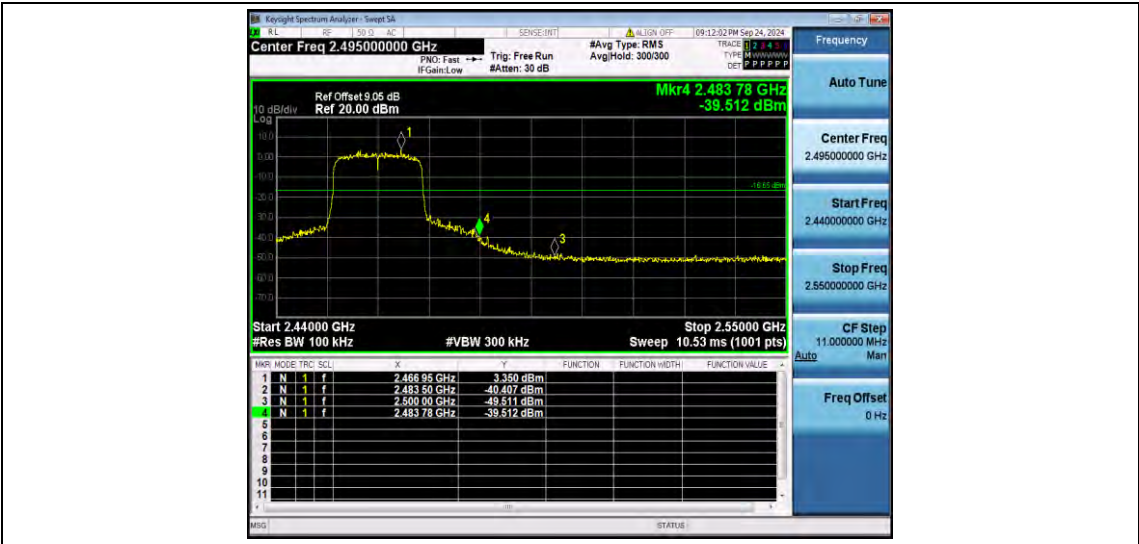
11N40SISO_Ant1_High_2452



11AX20SISO_Ant1_Low_2412



11AX20SISO_Ant1_High_2462



Appendix B.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.88	5.88	---	PASS
			30~1000	5.88	-59.6	≤ -14.12	PASS
			1000~26500	5.88	-47.98	≤ -14.12	PASS
		2437	Reference	6.96	6.96	---	PASS
			30~1000	6.96	-48.52	≤ -13.04	PASS
			1000~26500	6.96	-48.01	≤ -13.04	PASS
		2462	Reference	9.06	9.06	---	PASS
			30~1000	9.06	-60.58	≤ -10.94	PASS
			1000~26500	9.06	-47.64	≤ -10.94	PASS
11G	Ant1	2412	Reference	0.79	0.79	---	PASS
			30~1000	0.79	-60.01	≤ -19.21	PASS
			1000~26500	0.79	-47.71	≤ -19.21	PASS
		2437	Reference	1.79	1.79	---	PASS
			30~1000	1.79	-59.3	≤ -18.21	PASS
			1000~26500	1.79	-47.41	≤ -18.21	PASS
		2462	Reference	1.79	1.79	---	PASS
			30~1000	1.79	-60.18	≤ -18.21	PASS
			1000~26500	1.79	-47.69	≤ -18.21	PASS
11N20SISO	Ant1	2412	Reference	-0.07	-0.07	---	PASS
			30~1000	-0.07	-60.4	≤ -20.07	PASS
			1000~26500	-0.07	-47.64	≤ -20.07	PASS
		2437	Reference	0.25	0.25	---	PASS
			30~1000	0.25	-60.55	≤ -19.75	PASS
			1000~26500	0.25	-47.87	≤ -19.75	PASS
		2462	Reference	0.88	0.88	---	PASS
			30~1000	0.88	-60.5	≤ -19.12	PASS
			1000~26500	0.88	-41.5	≤ -19.12	PASS
11N40SISO	Ant1	2422	Reference	-2.68	-2.68	---	PASS
			30~1000	-2.68	-58.4	≤ -22.68	PASS
			1000~26500	-2.68	-47.23	≤ -22.68	PASS
		2437	Reference	0.11	0.11	---	PASS
			30~1000	0.11	-59.7	≤ -19.89	PASS
			1000~26500	0.11	-47.64	≤ -19.89	PASS
		2452	Reference	-0.15	-0.15	---	PASS
			30~1000	-0.15	-60.2	≤ -20.15	PASS
			1000~26500	-0.15	-47.71	≤ -20.15	PASS

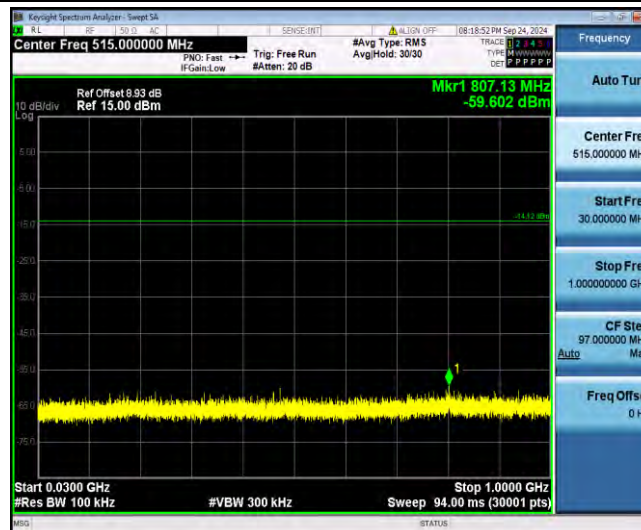
11AX20SISO	Ant1	2412	Reference	0.47	0.47	---	PASS
			30~1000	0.47	-59.67	≤ -19.53	PASS
			1000~26500	0.47	-46.5	≤ -19.53	PASS
		2437	Reference	2.24	2.24	---	PASS
			30~1000	2.24	-59.82	≤ -17.76	PASS
			1000~26500	2.24	-47.54	≤ -17.76	PASS
		2462	Reference	3.26	3.26	---	PASS
			30~1000	3.26	-60.51	≤ -16.74	PASS
			1000~26500	3.26	-45.01	≤ -16.74	PASS

Test Graphs

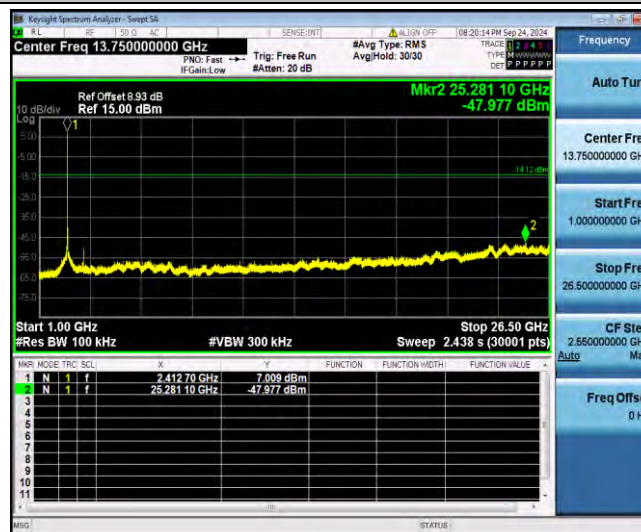
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



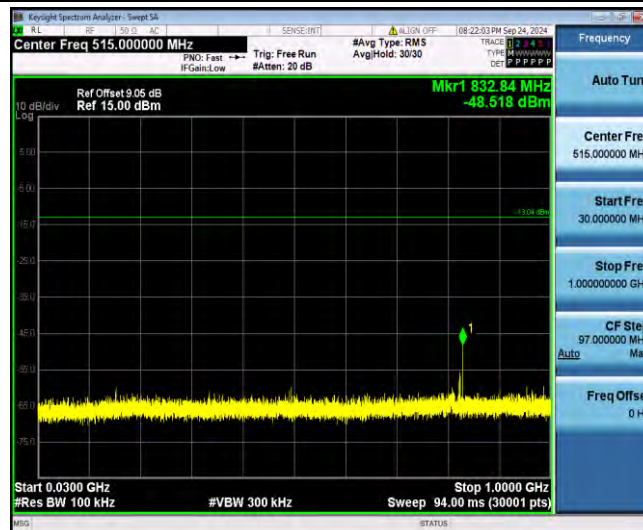
11B_Ant1_2412_1000~26500



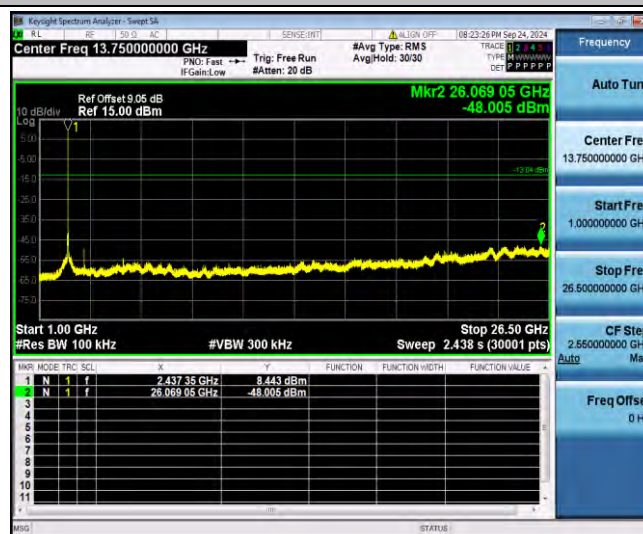
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



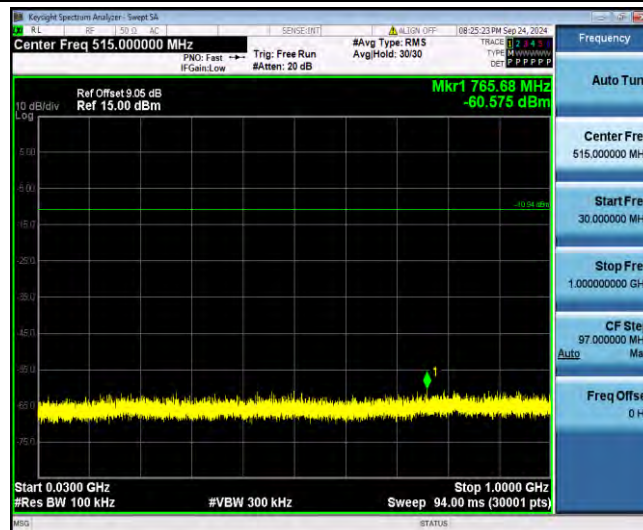
11B_Ant1_2437_1000~26500



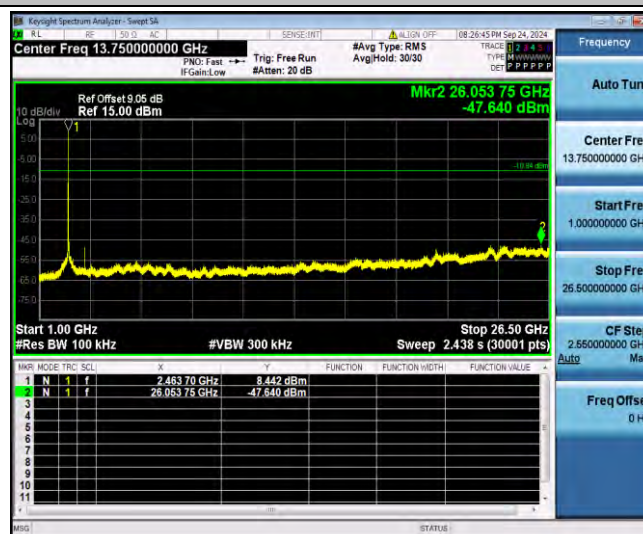
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



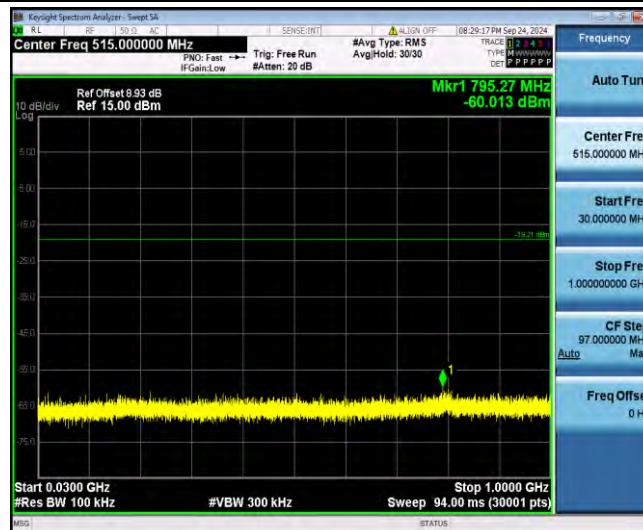
11B_Ant1_2462_1000~26500



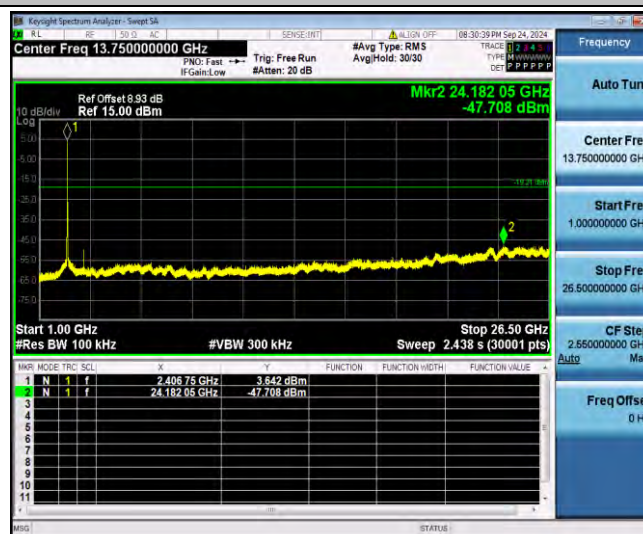
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



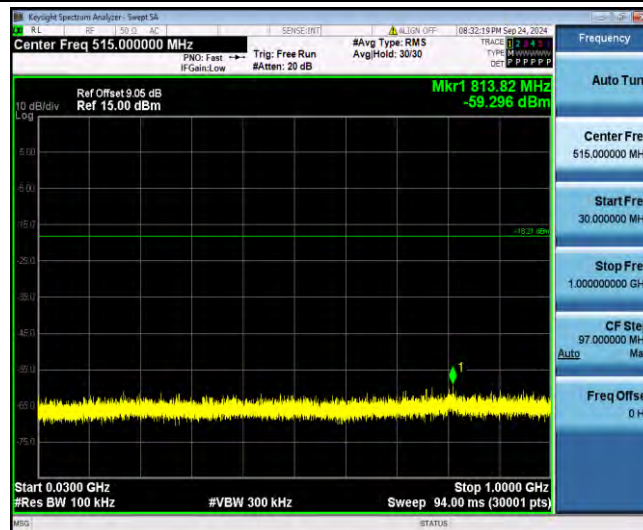
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



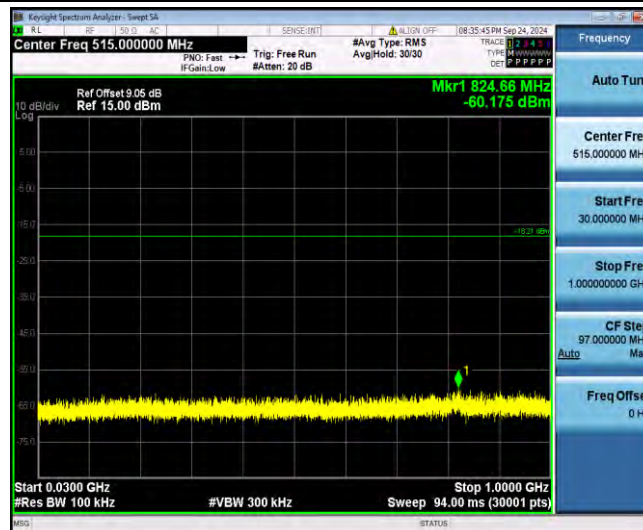
11G_Ant1_2437_1000~26500



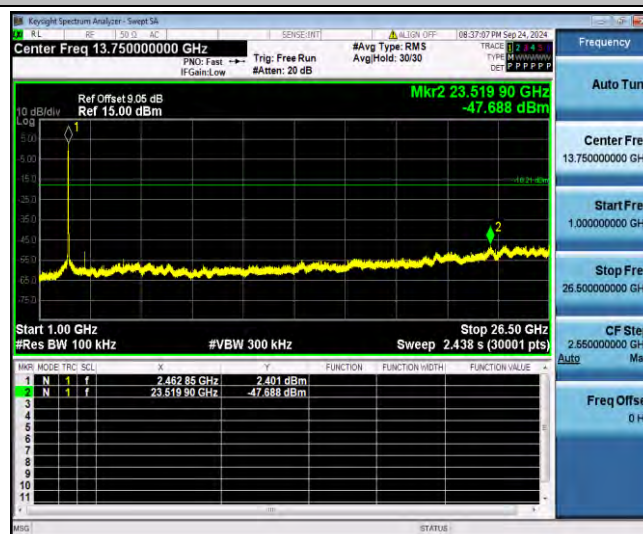
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



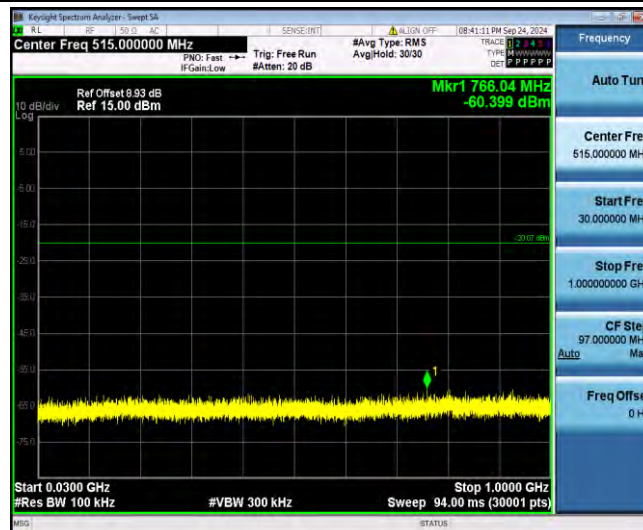
11G_Ant1_2462_1000~26500



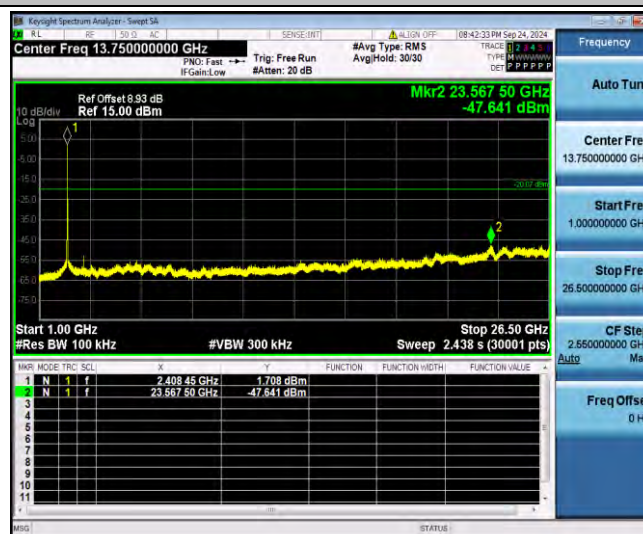
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



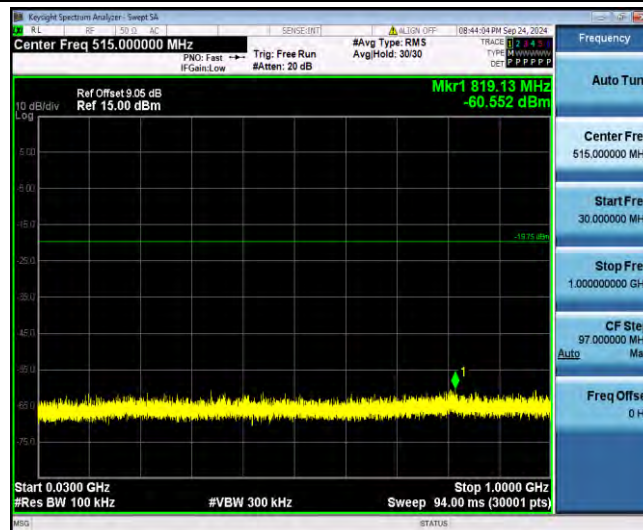
11N20SISO_Ant1_2412_1000~26500



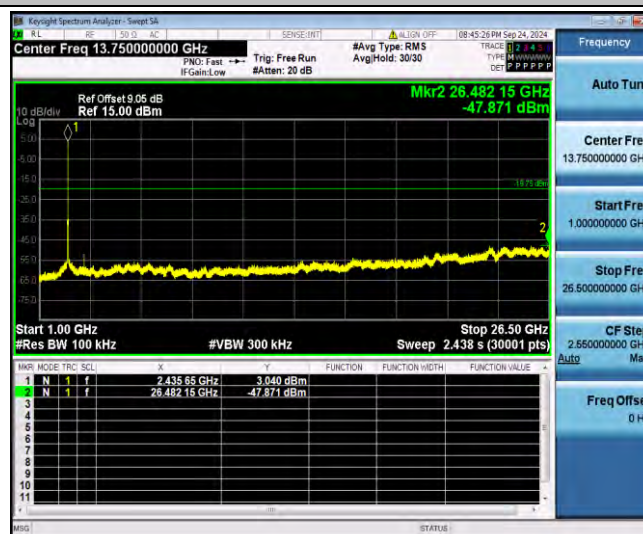
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



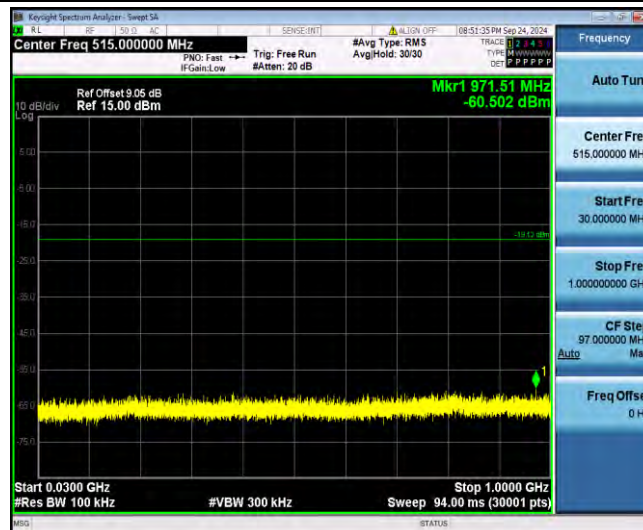
11N20SISO_Ant1_2437_1000~26500



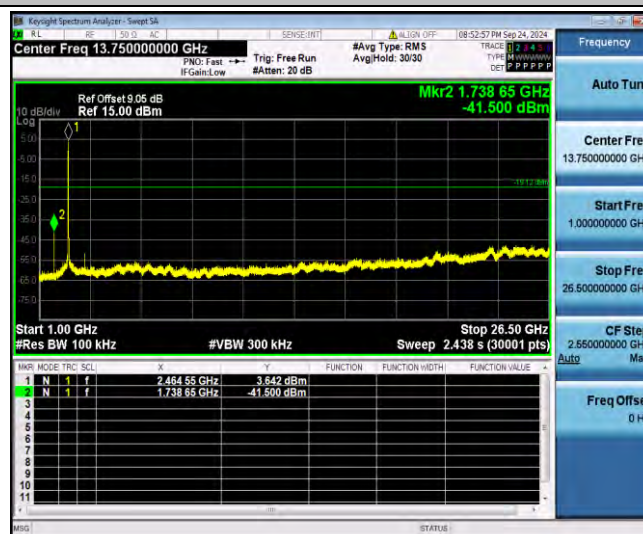
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



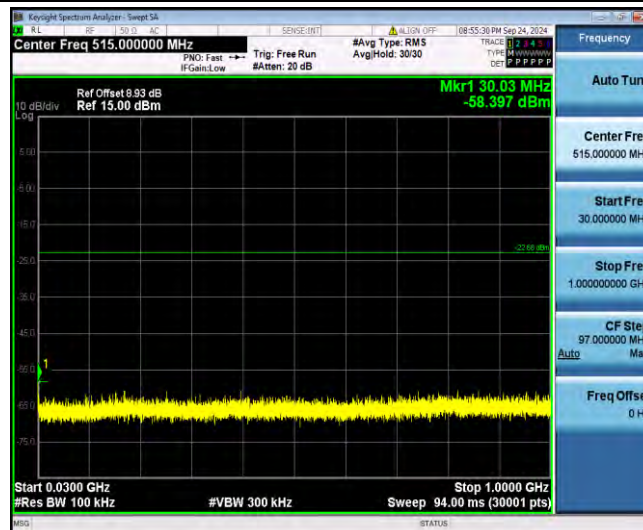
11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



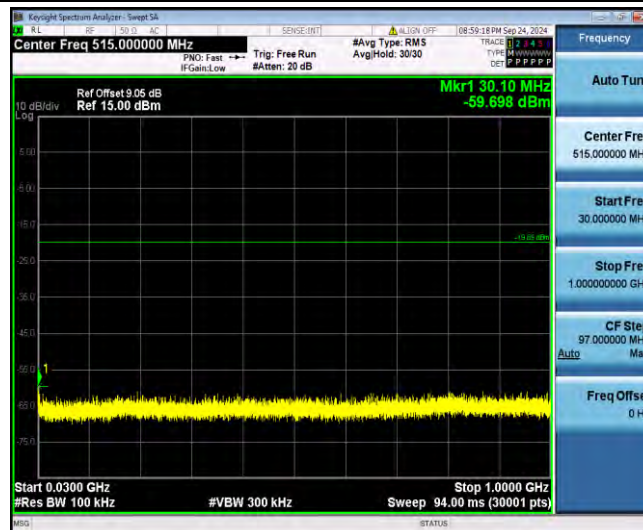
11N40SISO_Ant1_2422_1000~26500



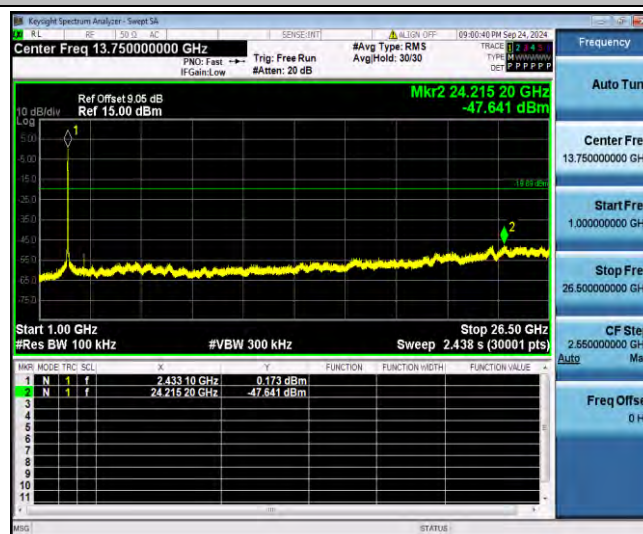
11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



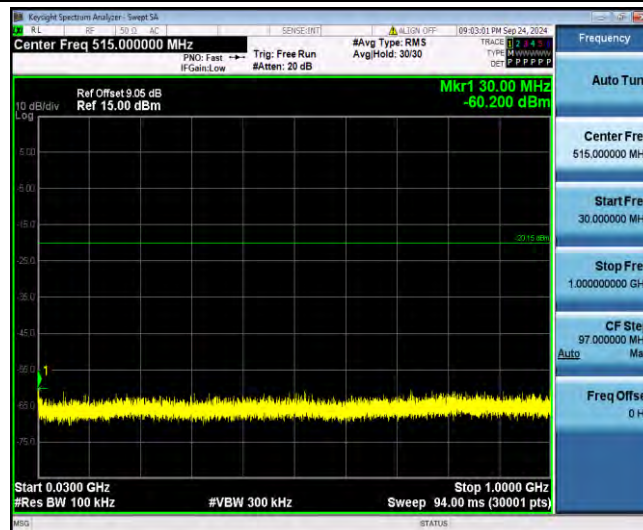
11N40SISO_Ant1_2437_1000~26500



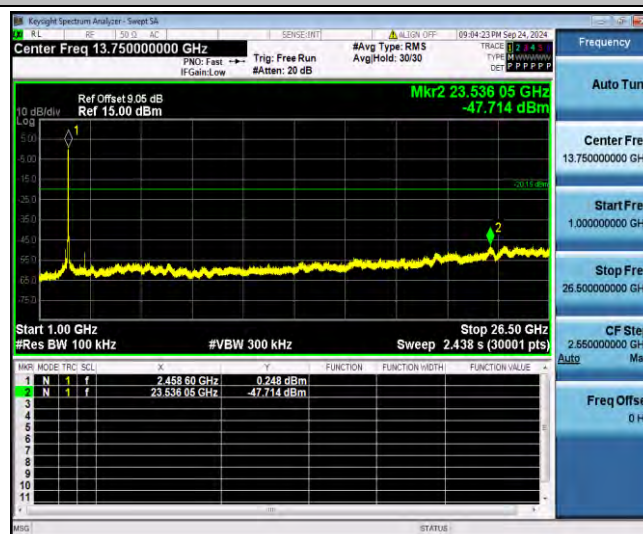
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



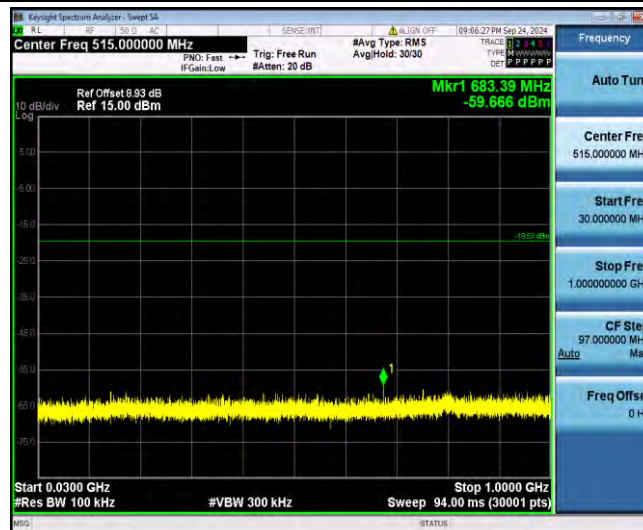
11N40SISO_Ant1_2452_1000~26500



11AX20SISO_Ant1_2412_0~Reference



11AX20SISO_Ant1_2412_30~1000



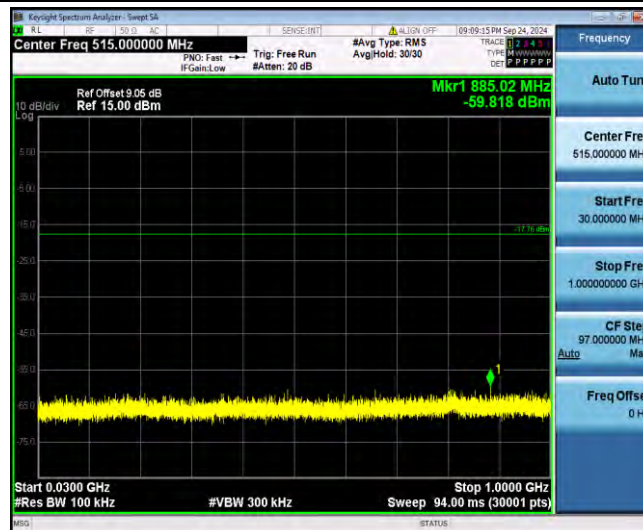
11AX20SISO_Ant1_2412_1000~26500



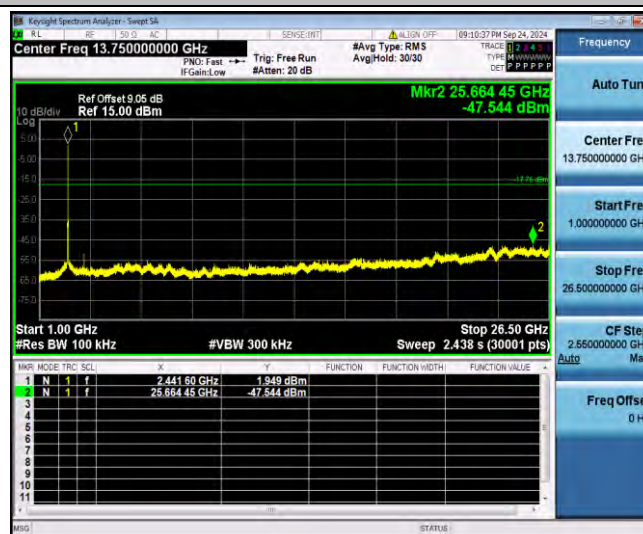
11AX20SISO_Ant1_2437_0~Reference



11AX20SISO_Ant1_2437_30~1000



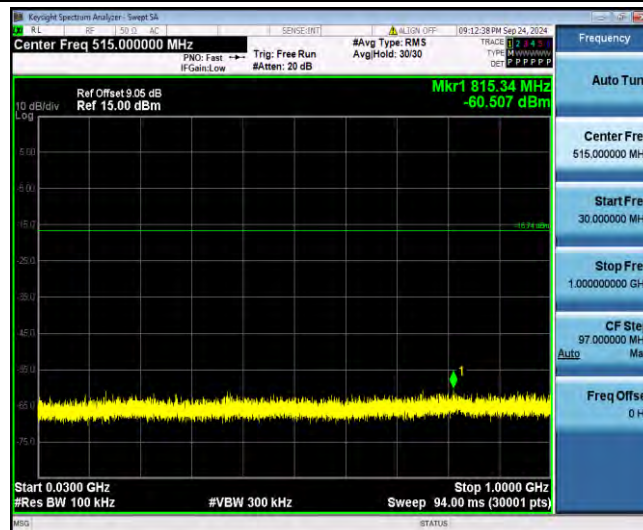
11AX20SISO_Ant1_2437_1000~26500



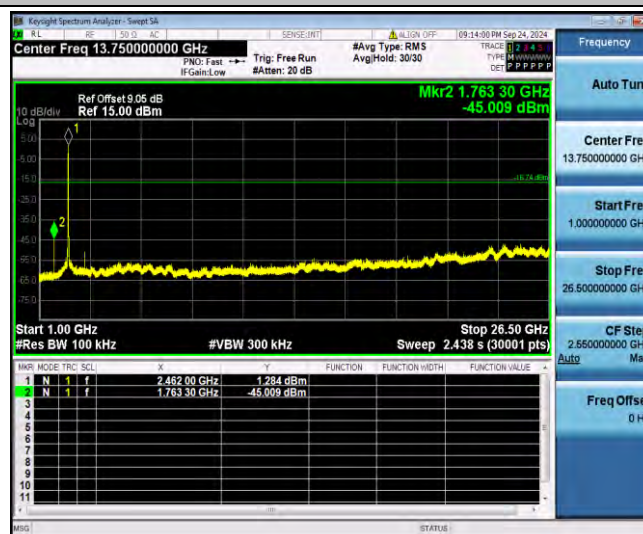
11AX20SISO_Ant1_2462_0~Reference



11AX20SISO_Ant1_2462_30~1000



11AX20SISO_Ant1_2462_1000~26500



Appendix B.7: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-48	≤-41.20	47.20	≤54	PASS
				AV	2386.060	-44.54	≤-41.20	50.66	≤54	PASS
				AV	2390.000	-45.88	≤-41.20	49.32	≤54	PASS
				Peak	2310.000	-42.67	≤-21.20	52.53	≤74	PASS
				Peak	2385.670	-39.32	≤-21.20	55.88	≤74	PASS
				Peak	2390.000	-41.51	≤-21.20	53.69	≤74	PASS
		High	2462	AV	2483.500	-43.9	≤-41.20	51.30	≤54	PASS
				AV	2488.180	-41.71	≤-41.20	53.49	≤54	PASS
				AV	2500.000	-45.83	≤-41.20	49.37	≤54	PASS
				Peak	2483.500	-38.37	≤-21.20	56.83	≤74	PASS
				Peak	2488.950	-35.93	≤-21.20	59.27	≤74	PASS
				Peak	2500.000	-44.9	≤-21.20	50.30	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-48.65	≤-41.20	46.55	≤54	PASS
				AV	2389.960	-43.35	≤-41.20	51.85	≤54	PASS
				AV	2390.000	-43.35	≤-41.20	51.85	≤54	PASS
				Peak	2310.000	-47.03	≤-21.20	48.17	≤74	PASS
				Peak	2384.500	-37.45	≤-21.20	57.75	≤74	PASS
				Peak	2390.000	-41.5	≤-21.20	53.70	≤74	PASS
		High	2462	AV	2483.500	-44	≤-41.20	51.20	≤54	PASS
				AV	2483.560	-44.12	≤-41.20	51.08	≤54	PASS
				AV	2500.000	-48.31	≤-41.20	46.89	≤54	PASS
				Peak	2483.500	-34.5	≤-21.20	60.70	≤74	PASS
				Peak	2483.780	-34.47	≤-21.20	60.73	≤74	PASS
				Peak	2500.000	-46.08	≤-21.20	49.12	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-48.68	≤-41.20	46.52	≤54	PASS
				AV	2389.960	-42.39	≤-41.20	52.81	≤54	PASS
				AV	2390.000	-42.39	≤-41.20	52.81	≤54	PASS
				Peak	2310.000	-44.91	≤-21.20	50.29	≤74	PASS
				Peak	2389.310	-34.59	≤-21.20	60.61	≤74	PASS
				Peak	2390.000	-37.53	≤-21.20	57.67	≤74	PASS
		High	2462	AV	2483.500	-43.75	≤-41.20	51.45	≤54	PASS
				AV	2483.560	-43.84	≤-41.20	51.36	≤54	PASS
				AV	2500.000	-48.44	≤-41.20	46.76	≤54	PASS
				Peak	2483.500	-39.26	≤-21.20	55.94	≤74	PASS
				Peak	2489.170	-37.8	≤-21.20	57.40	≤74	PASS
				Peak	2500.000	-42.62	≤-21.20	52.58	≤74	PASS

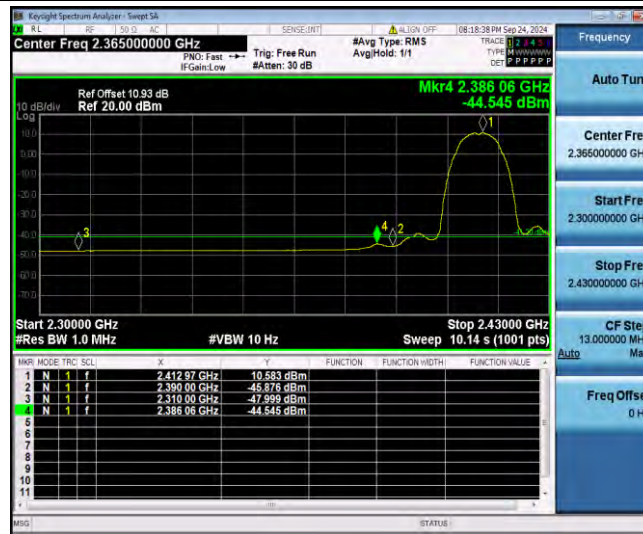
11N40SISO	Ant1	Low	2422	AV	2310.000	-48.66	≤ -41.20	46.54	≤ 54	PASS
				AV	2389.960	-43.46	≤ -41.20	51.74	≤ 54	PASS
				AV	2390.000	-43.46	≤ -41.20	51.74	≤ 54	PASS
				Peak	2310.000	-43.04	≤ -21.20	52.16	≤ 74	PASS
				Peak	2389.570	-36.34	≤ -21.20	58.86	≤ 74	PASS
				Peak	2390.000	-46.1	≤ -21.20	49.10	≤ 74	PASS
		High	2452	AV	2483.500	-41.95	≤ -41.20	53.25	≤ 54	PASS
				AV	2483.560	-42	≤ -41.20	53.20	≤ 54	PASS
				AV	2500.000	-46.38	≤ -41.20	48.82	≤ 54	PASS
				Peak	2483.500	-39.37	≤ -21.20	55.83	≤ 74	PASS
				Peak	2483.670	-32.86	≤ -21.20	62.34	≤ 74	PASS
				Peak	2500.000	-45.53	≤ -21.20	49.67	≤ 74	PASS
11AX20SISO	Ant1	Low	2412	AV	2310.000	-48.65	≤ -41.20	46.55	≤ 54	PASS
				AV	2389.960	-42.28	≤ -41.20	52.92	≤ 54	PASS
				AV	2390.000	-42.28	≤ -41.20	52.92	≤ 54	PASS
				Peak	2310.000	-44.82	≤ -21.20	50.38	≤ 74	PASS
				Peak	2385.280	-36.09	≤ -21.20	59.11	≤ 74	PASS
				Peak	2390.000	-38.06	≤ -21.20	57.14	≤ 74	PASS
		High	2462	AV	2483.500	-43.25	≤ -41.20	51.95	≤ 54	PASS
				AV	2483.560	-43.31	≤ -41.20	51.89	≤ 54	PASS
				AV	2500.000	-48.35	≤ -41.20	46.85	≤ 54	PASS
				Peak	2483.500	-40.94	≤ -21.20	54.26	≤ 74	PASS
				Peak	2486.090	-33.5	≤ -21.20	61.70	≤ 74	PASS
				Peak	2500.000	-49.62	≤ -21.20	45.58	≤ 74	PASS

Note:

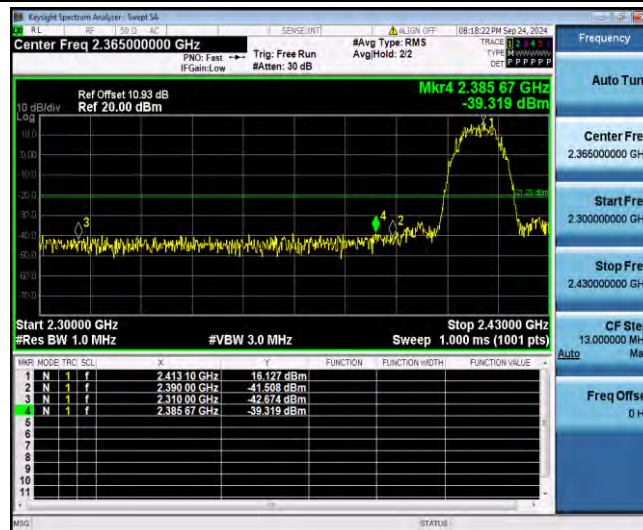
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

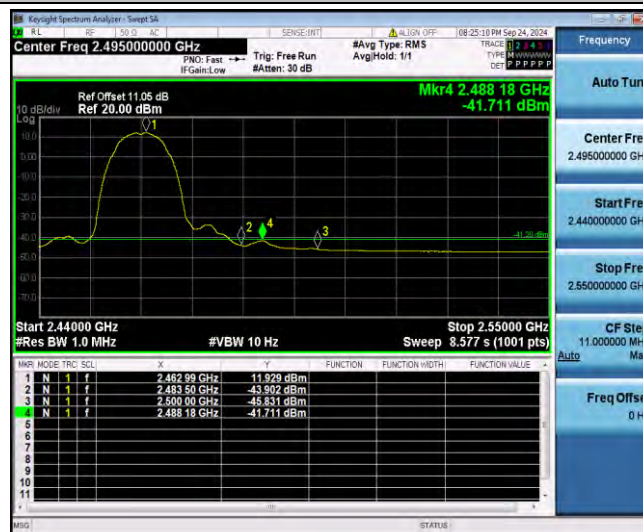
11B_Ant1_Low_2412_AV



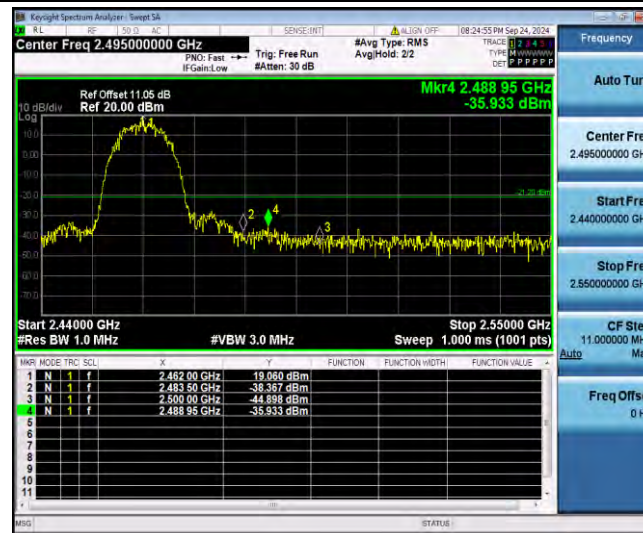
11B_Ant1_Low_2412_Peak



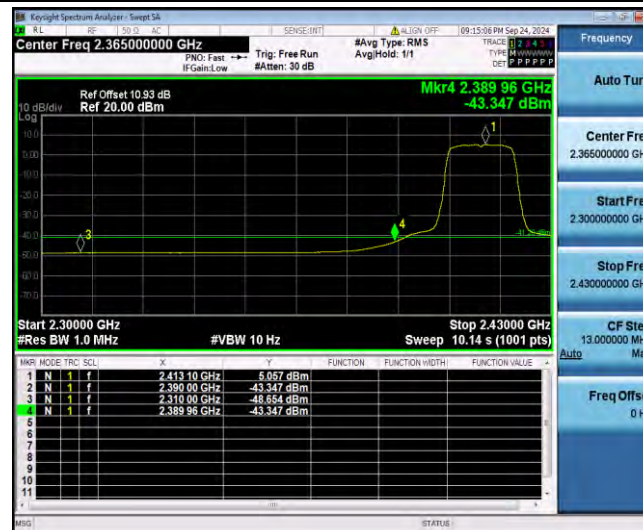
11B_Ant1_High_2462_AV



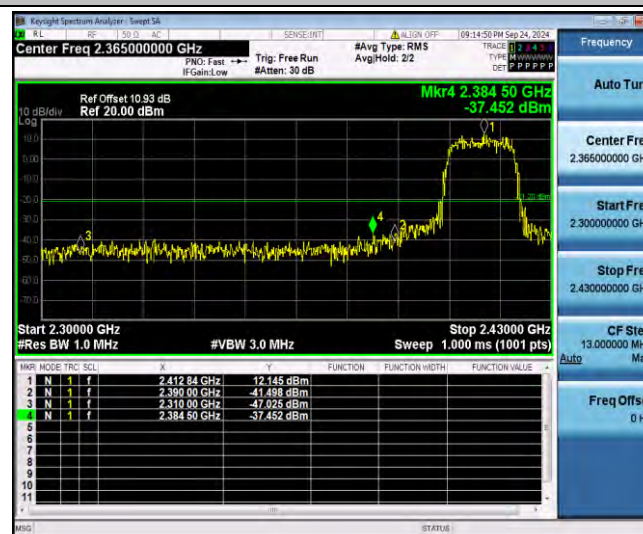
11B_Ant1_High_2462_Peak



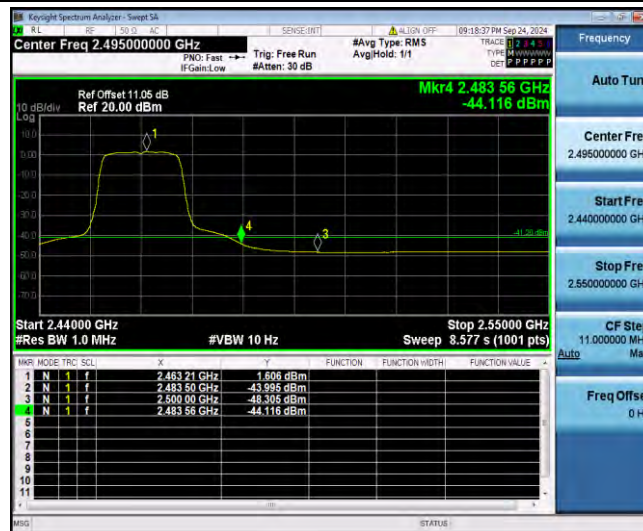
11G_Ant1_Low_2412_AV



11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



11G_Ant1_High_2462_Peak



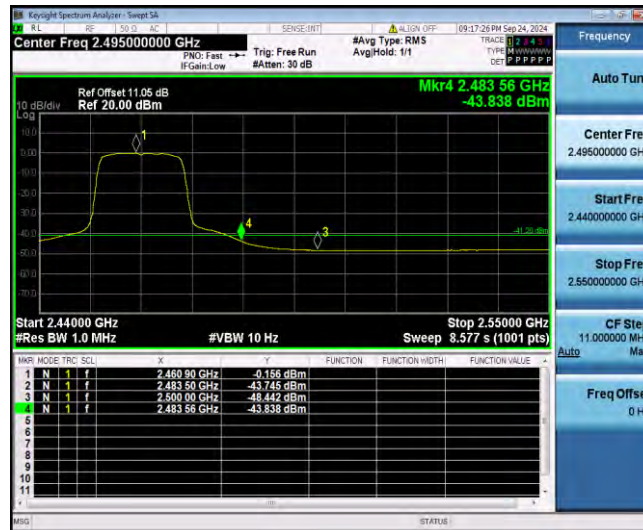
11N20SISO_Ant1_Low_2412_AV



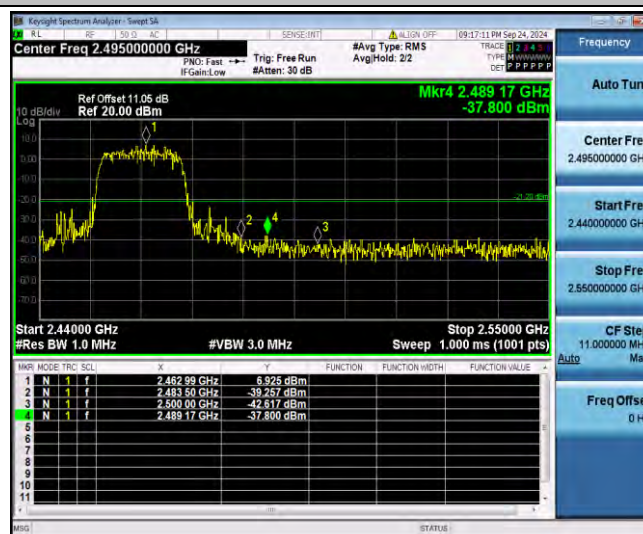
11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



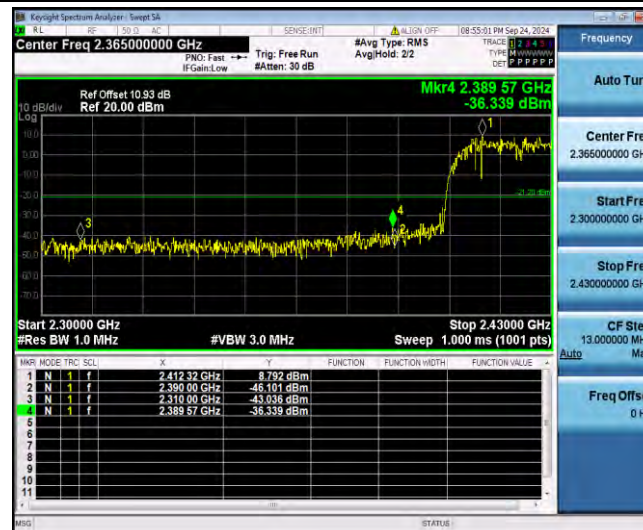
11N20SISO_Ant1_High_2462_Peak



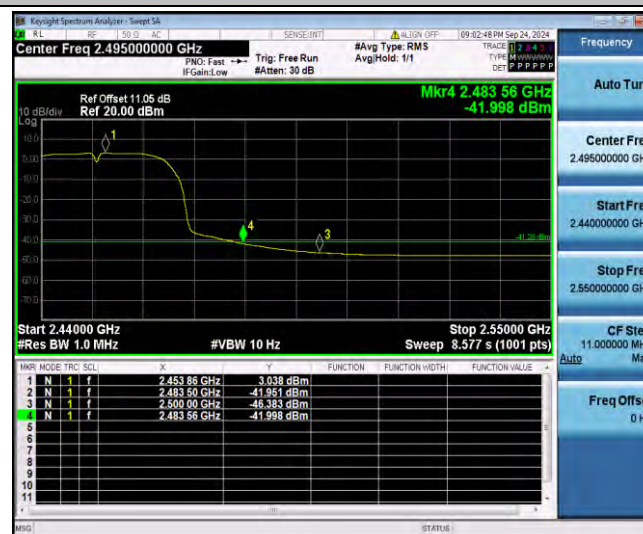
11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV



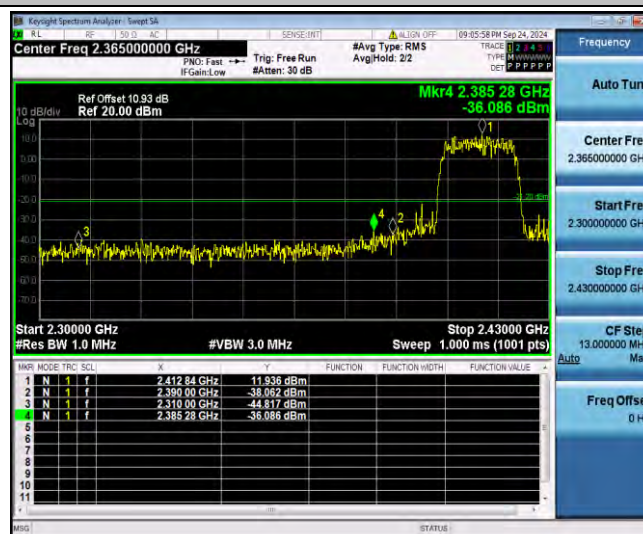
11N40SISO_Ant1_High_2452_Peak



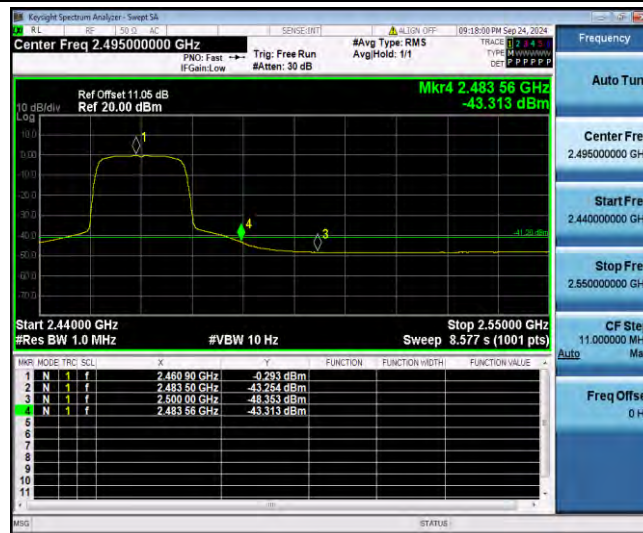
11AX20SISO_Ant1_Low_2412_AV



11AX20SISO_Ant1_Low_2412_Peak



11AX20SISO_Ant1_High_2462_AV



11AX20SISO_Ant1_High_2462_Peak

