Case No. : GTS20221027005-2-8	
Ambient Condition: 24 ℃, 45 %RH, Atmos100.1Kpa,	
Test Date: 2022.12.13	**Test Engineer:** Jenny zeng

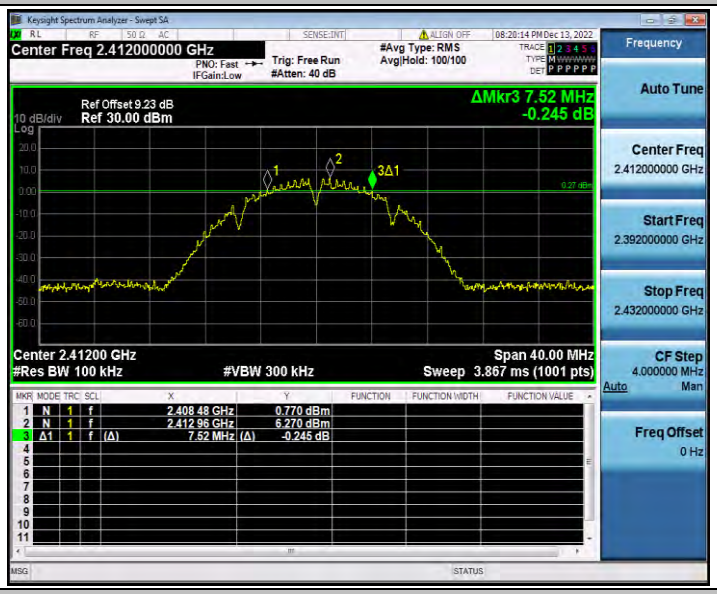
Appendix A.1: DTS Bandwidth

Test Result

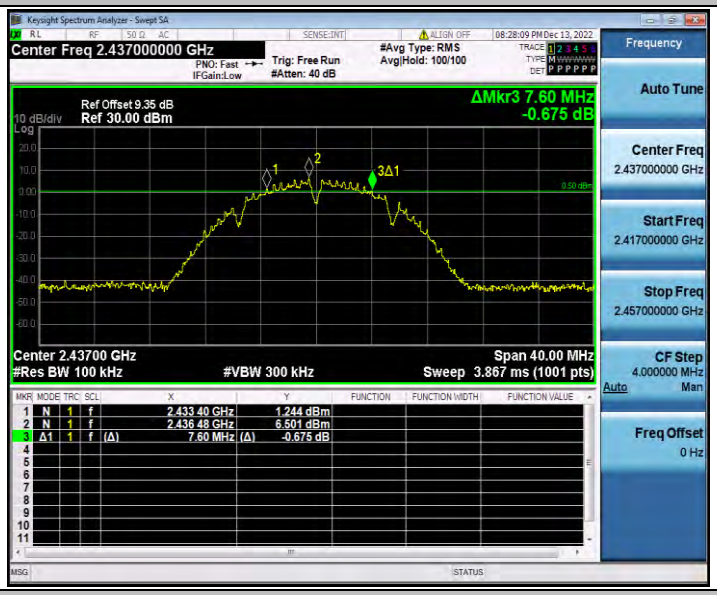
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.520	2408.480	2416.000	0.5	PASS
		2437	7.600	2433.400	2441.000	0.5	PASS
		2462	8.040	2457.960	2466.000	0.5	PASS
11G	Ant1	2412	16.280	2403.840	2420.120	0.5	PASS
		2437	16.320	2428.800	2445.120	0.5	PASS
		2462	16.320	2453.800	2470.120	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.160	2420.800	0.5	PASS
		2437	17.520	2428.200	2445.720	0.5	PASS
		2462	17.520	2453.200	2470.720	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.400	2439.440	0.5	PASS
		2437	34.720	2419.800	2454.520	0.5	PASS
		2452	35.040	2434.480	2469.520	0.5	PASS

Test Graphs

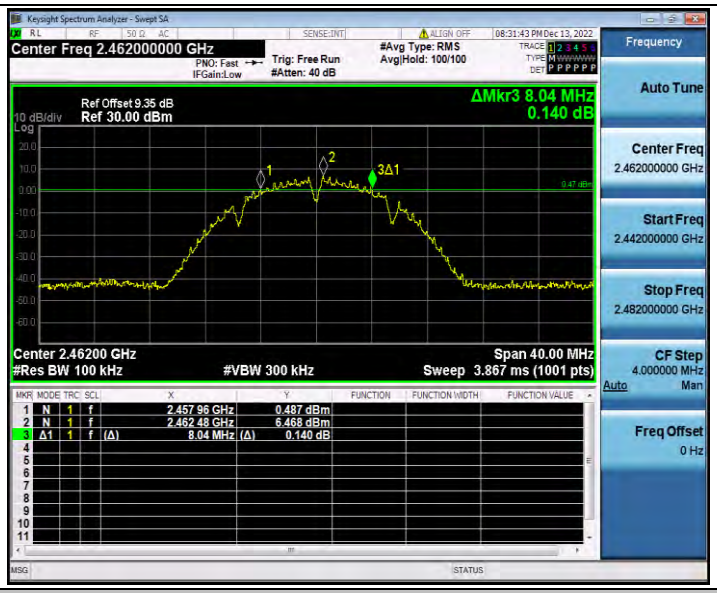
11B_Ant1_2412



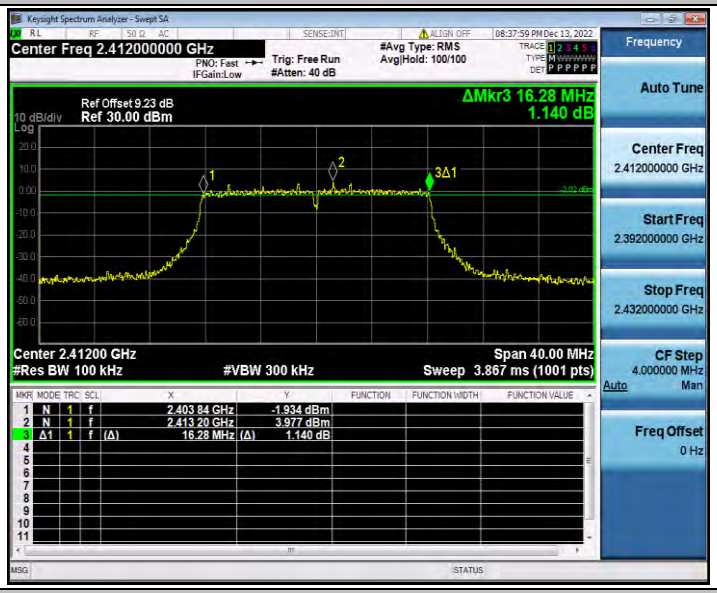
11B_Ant1_2437



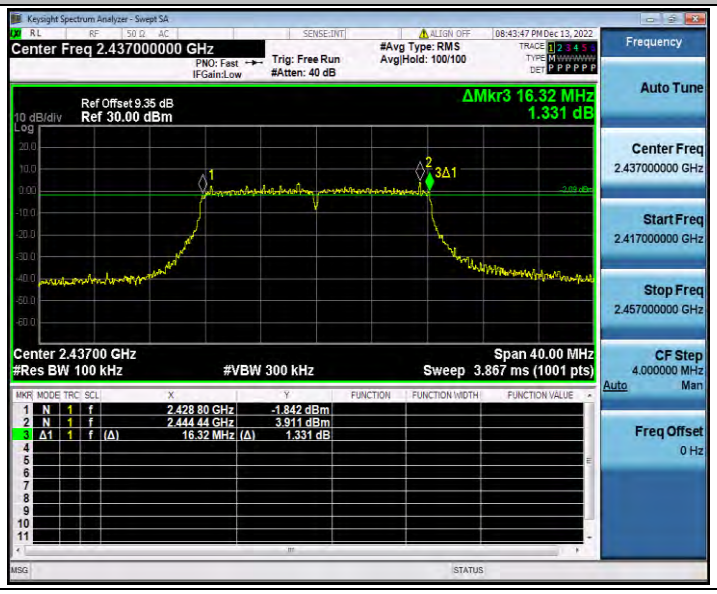
11B_Ant1_2462



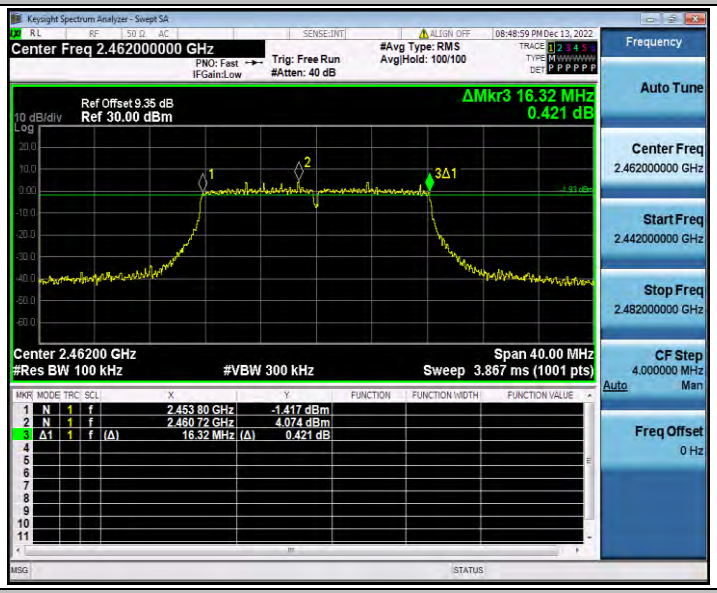
11G_Ant1_2412



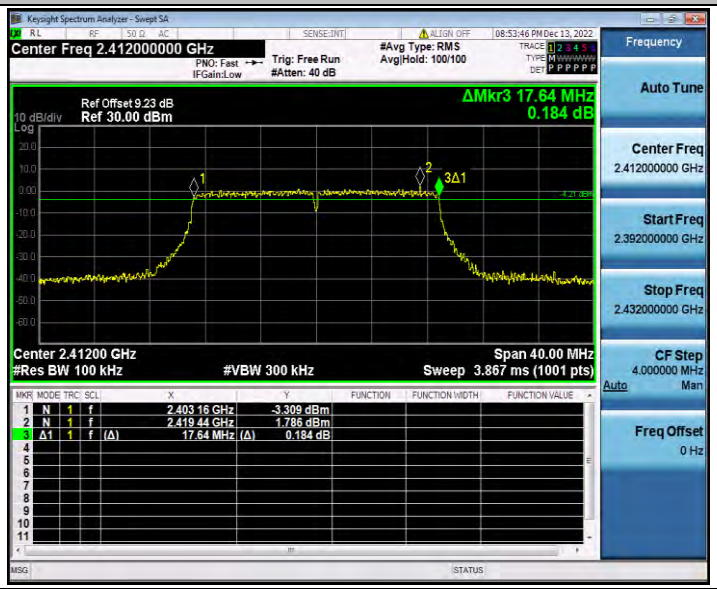
11G_Ant1_2437



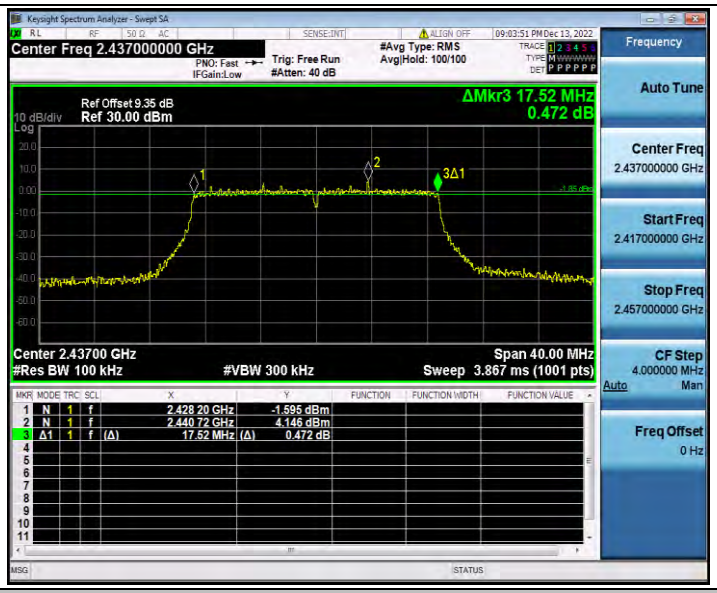
11G_Ant1_2462



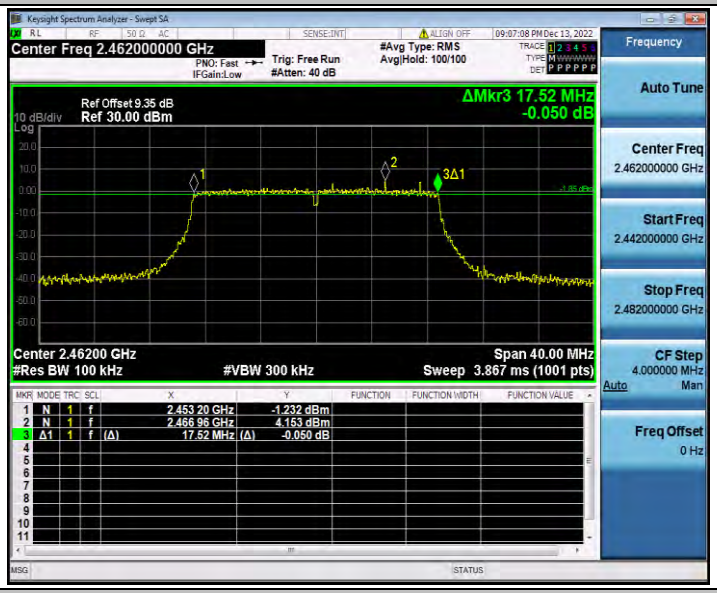
11N20SISO_Ant1_2412



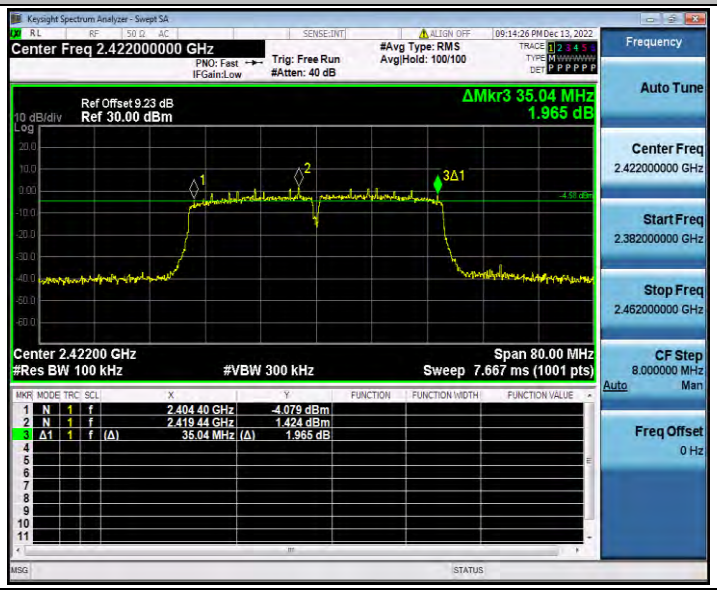
11N20SISO_Ant1_2437

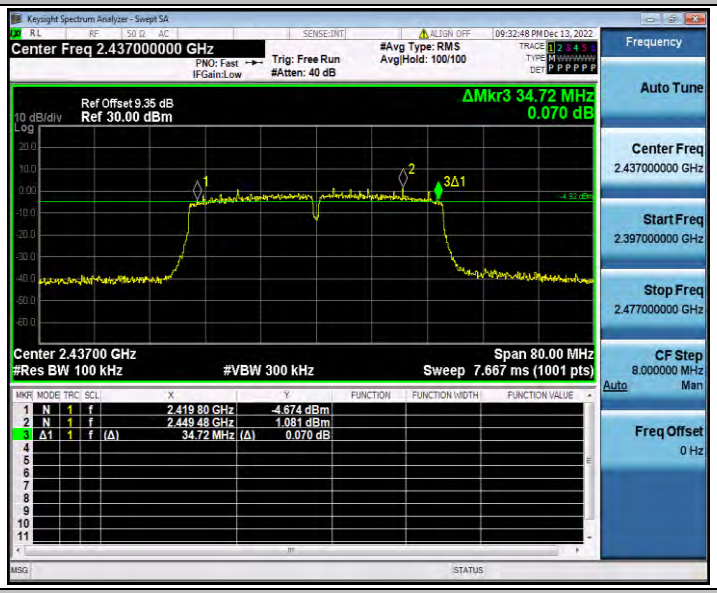


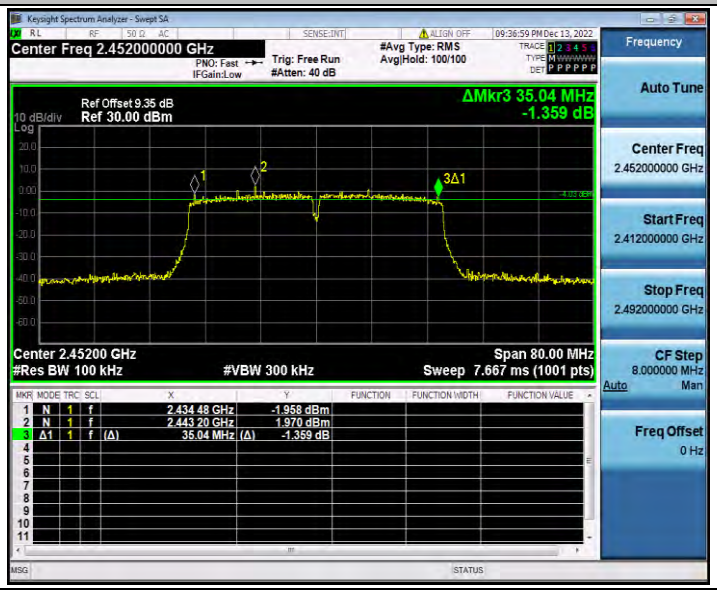
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437


11N40SISO_Ant1_2452


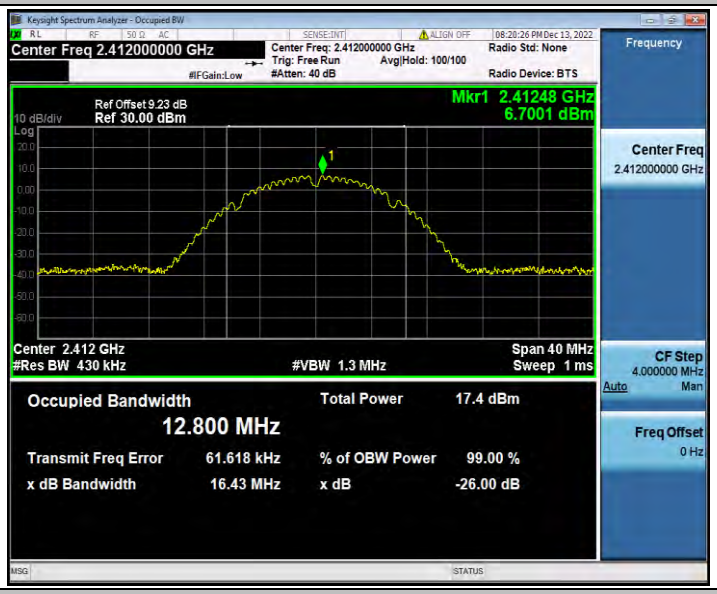
Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.800	2405.662	2418.462	---	---
		2437	12.754	2430.674	2443.428	---	---
		2462	12.812	2455.588	2468.400	---	---
11G	Ant1	2412	16.579	2403.703	2420.282	---	---
		2437	16.545	2428.726	2445.271	---	---
		2462	16.548	2453.703	2470.251	---	---
11N20SISO	Ant1	2412	17.742	2403.115	2420.857	---	---
		2437	17.760	2428.108	2445.868	---	---
		2462	17.738	2453.104	2470.842	---	---
11N40SISO	Ant1	2422	35.992	2404.047	2440.039	---	---
		2437	35.962	2419.034	2454.996	---	---
		2452	35.912	2434.020	2469.932	---	---

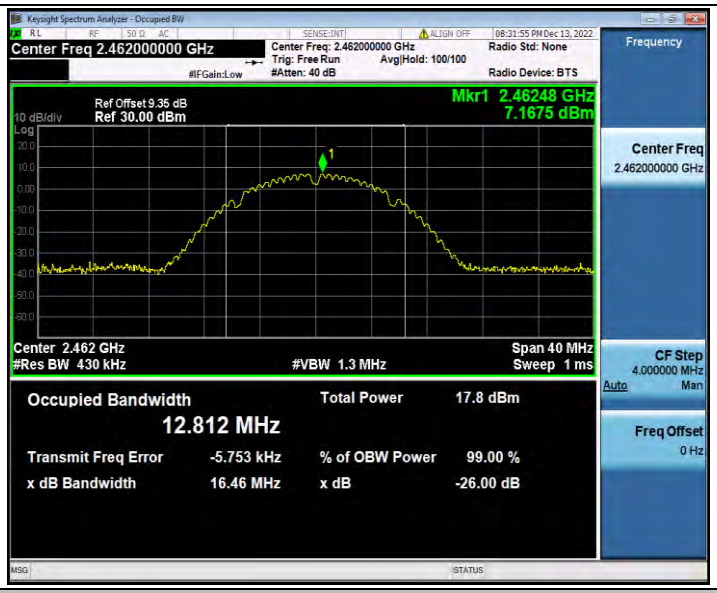
Test Graphs

11B_Ant1_2412

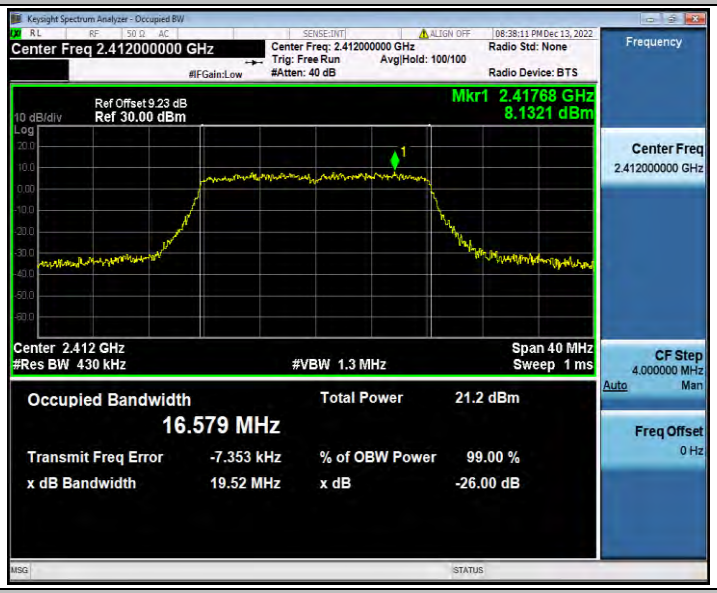


11B_Ant1_2437

11B_Ant1_2462

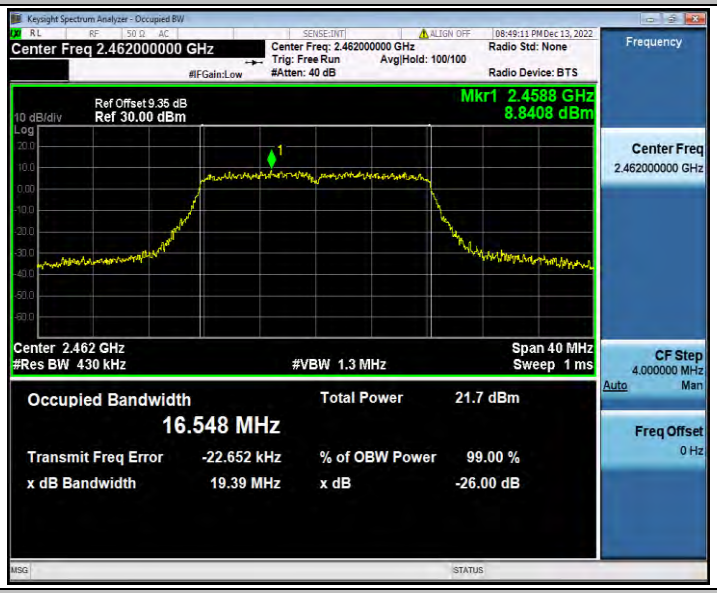


11G_Ant1_2412

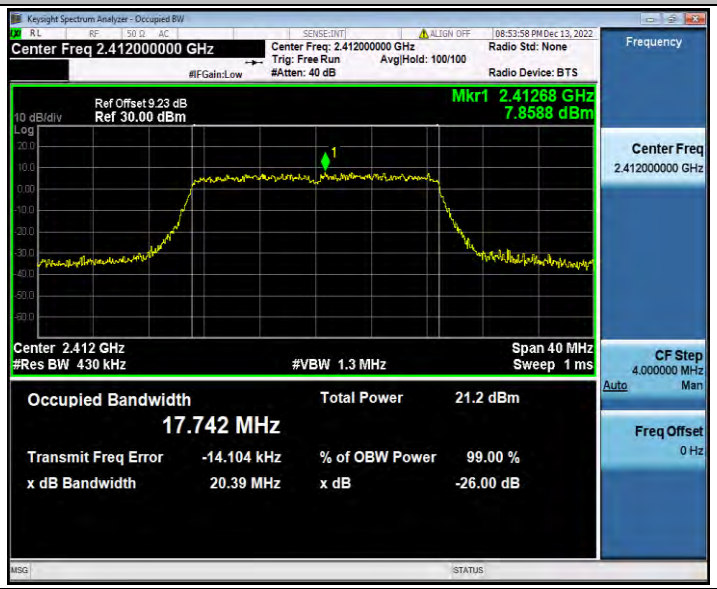


11G_Ant1_2437

11G_Ant1_2462



11N20SISO_Ant1_2412

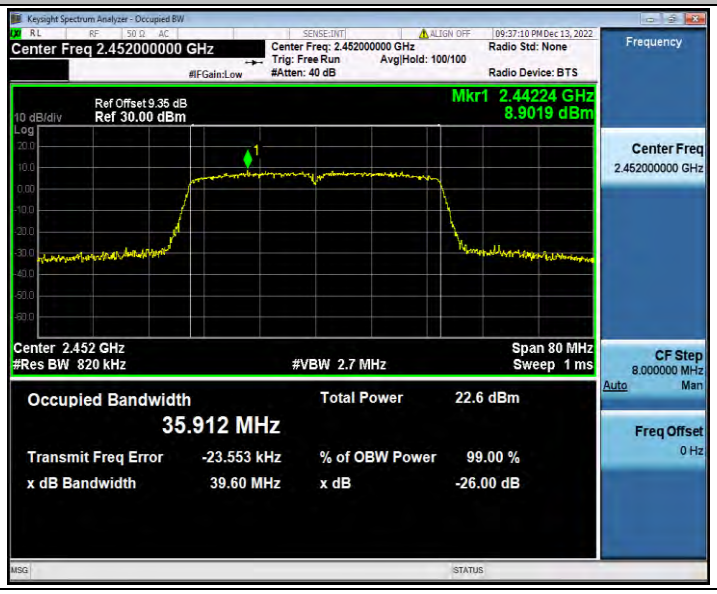


11N20SISO_Ant1_2437

11N20SISO_Ant1_2462

11N40SISO_Ant1_2422

11N40SISO_Ant1_2437

11N40SISO_Ant1_2452


Appendix A.3: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	17.50	≤30.00	PASS
		2437	17.81	≤30.00	PASS
		2462	17.88	≤30.00	PASS
11G	Ant1	2412	22.26	≤30.00	PASS
		2437	22.69	≤30.00	PASS
		2462	22.84	≤30.00	PASS
11N20SISO	Ant1	2412	22.21	≤30.00	PASS
		2437	22.60	≤30.00	PASS
		2462	22.84	≤30.00	PASS
11N40SISO	Ant1	2422	22.55	≤30.00	PASS
		2437	22.92	≤30.00	PASS
		2452	22.96	≤30.00	PASS

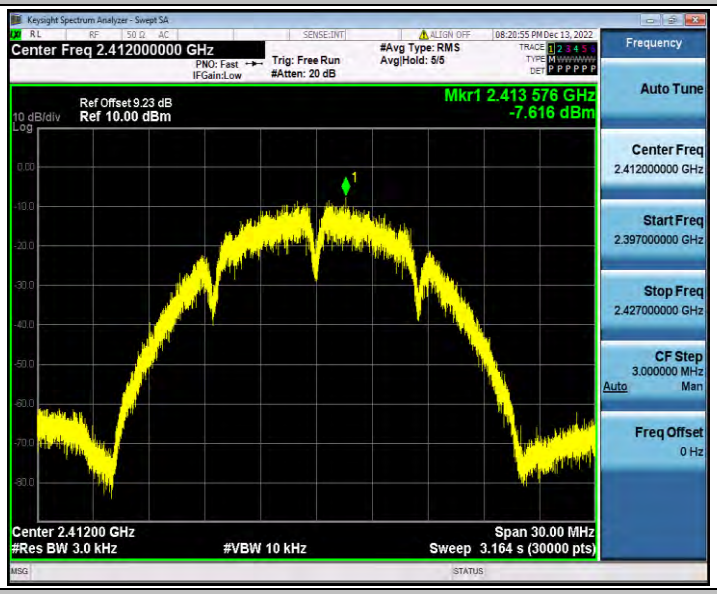
Appendix A.4: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.62	≤8.00	PASS
		2437	-5.76	≤8.00	PASS
		2462	-8	≤8.00	PASS
11G	Ant1	2412	-9.92	≤8.00	PASS
		2437	-9.77	≤8.00	PASS
		2462	-9.86	≤8.00	PASS
11N20SISO	Ant1	2412	-9.88	≤8.00	PASS
		2437	-9.82	≤8.00	PASS
		2462	-9.3	≤8.00	PASS
11N40SISO	Ant1	2422	-12.79	≤8.00	PASS
		2437	-11.79	≤8.00	PASS
		2452	-12.07	≤8.00	PASS

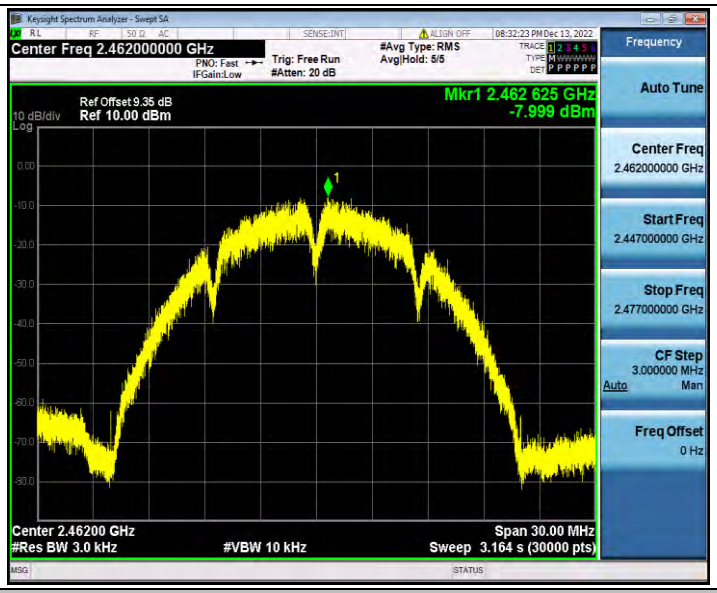
Test Graphs

11B_Ant1_2412

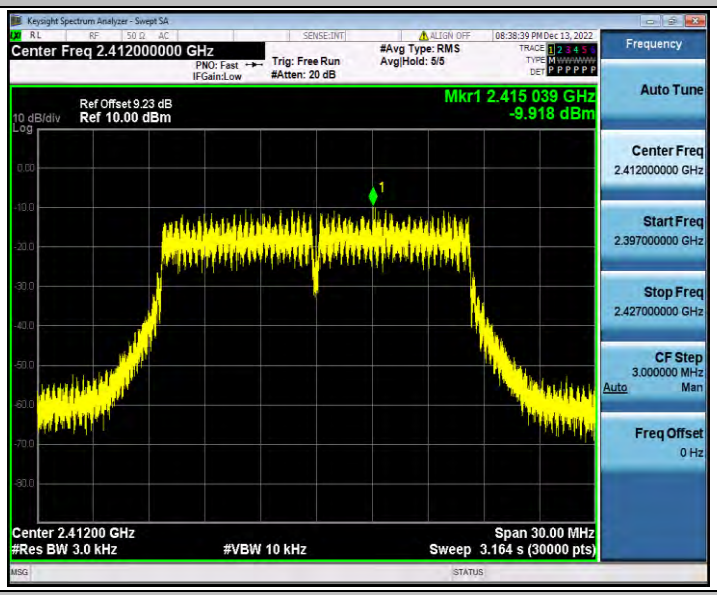


11B_Ant1_2437

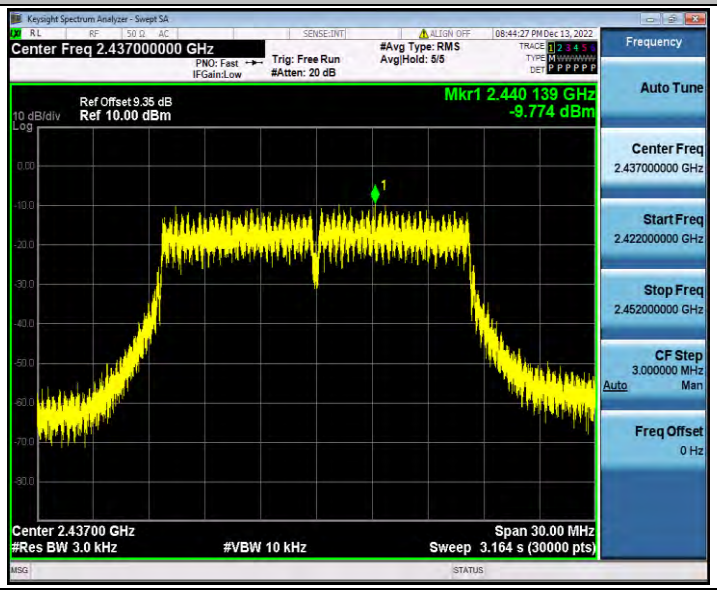
11B_Ant1_2462



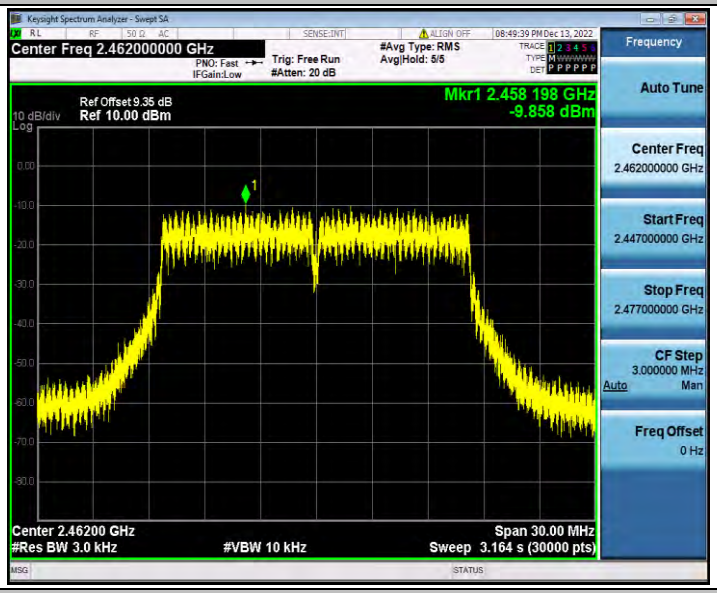
11G_Ant1_2412



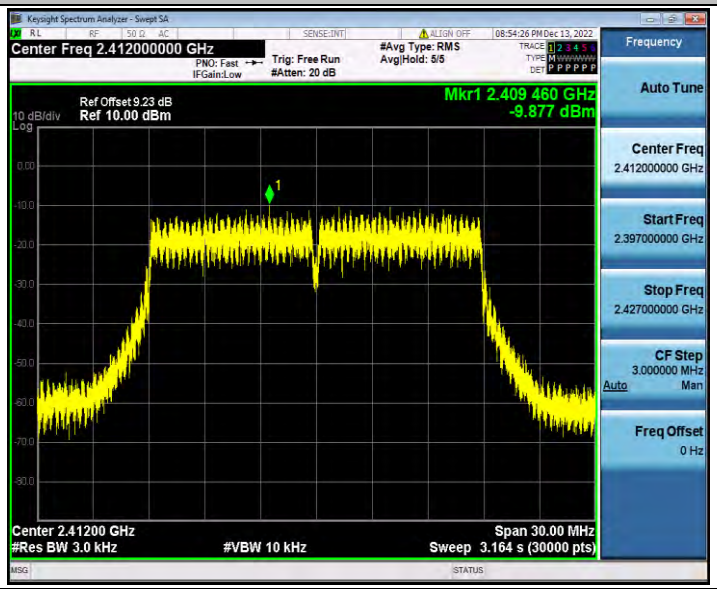
11G_Ant1_2437



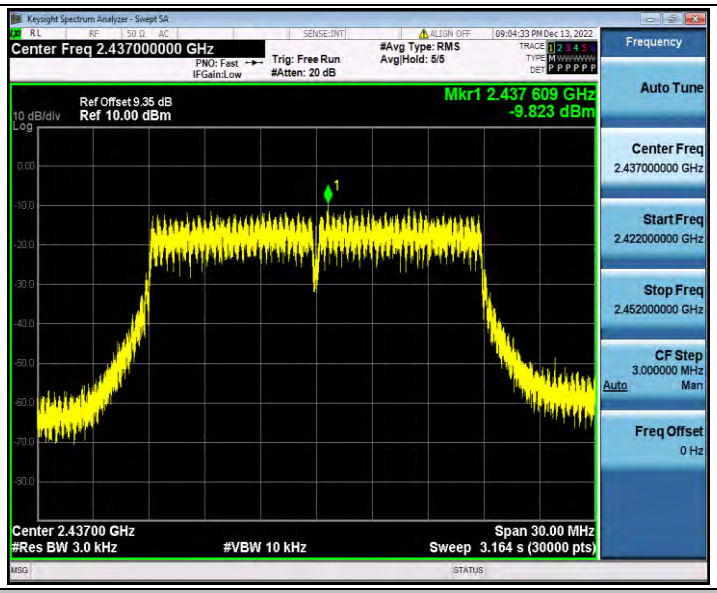
11G_Ant1_2462



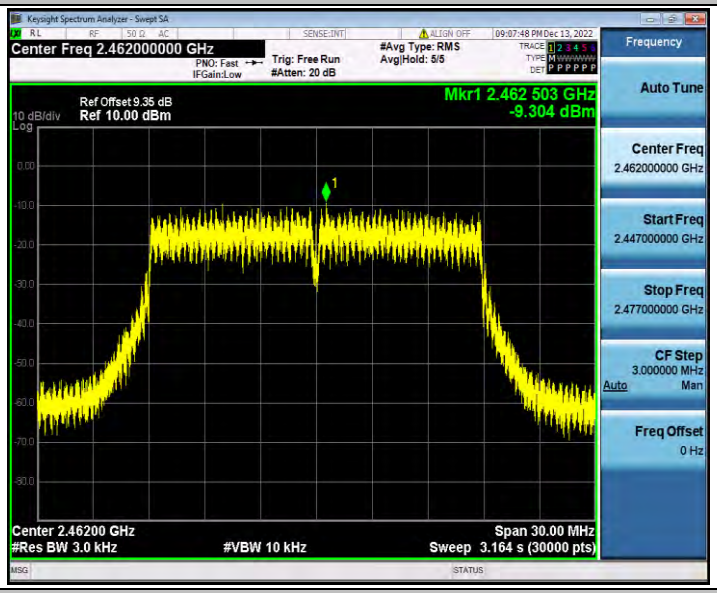
11N20SISO_Ant1_2412



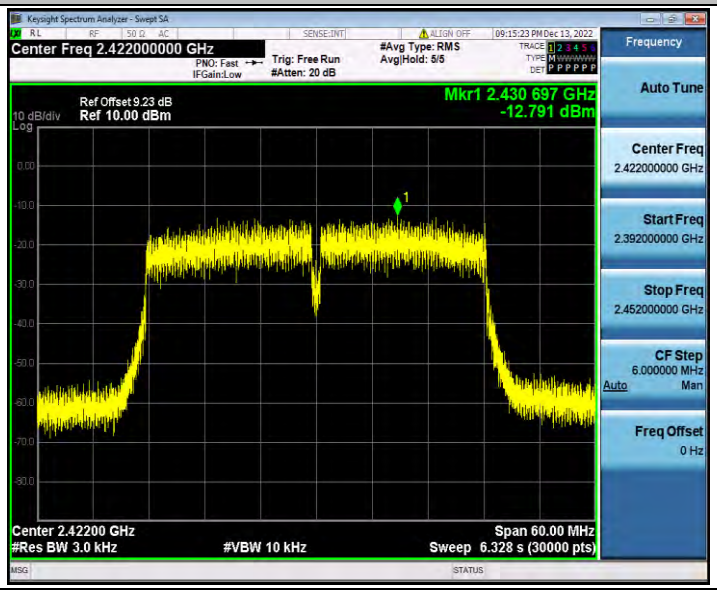
11N20SISO_Ant1_2437

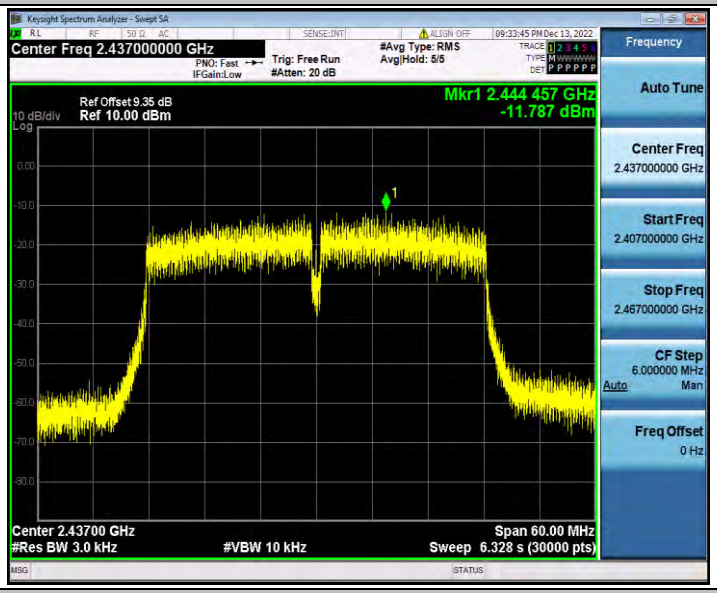


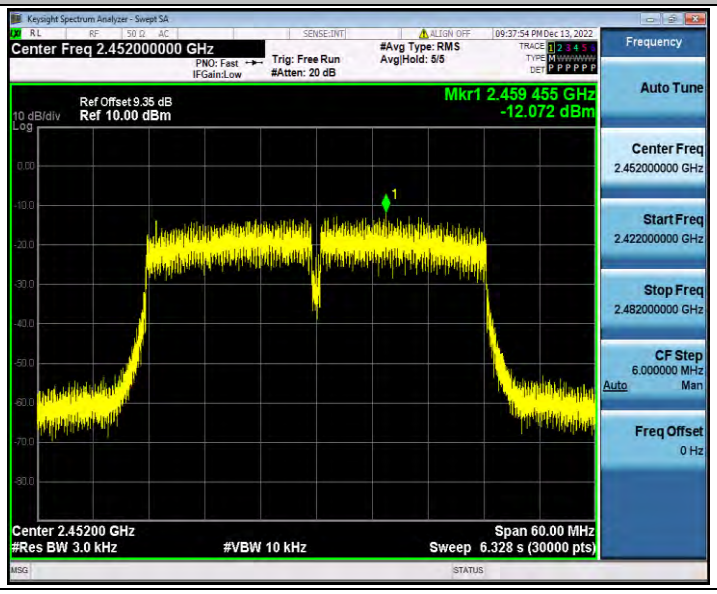
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437


11N40SISO_Ant1_2452


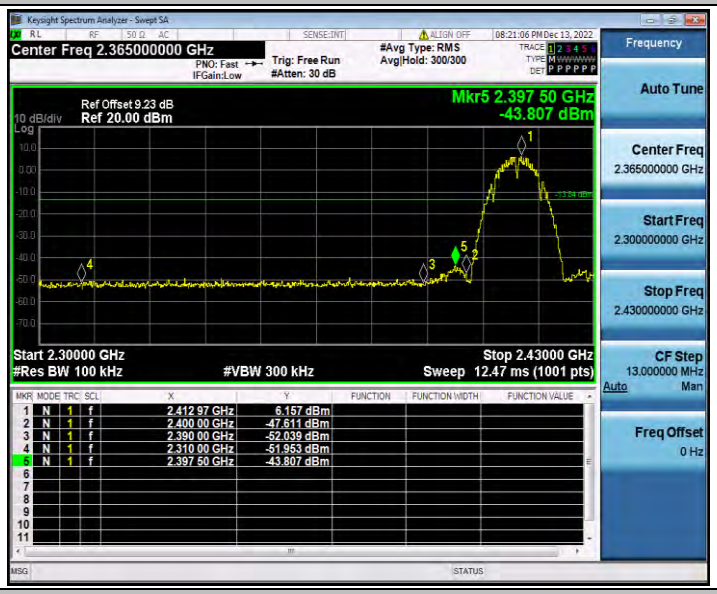
Appendix A.5: Band edge measurements

Test Result

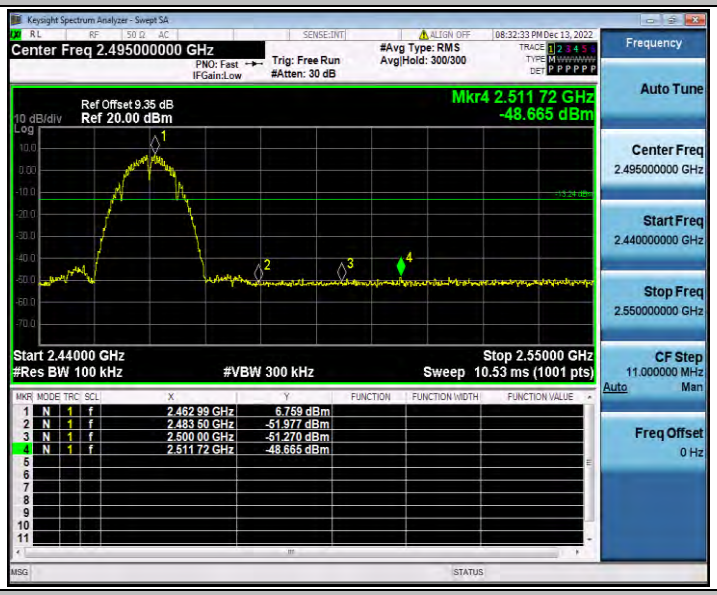
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.16	-43.81	≤-13.84	PASS
		High	2462	6.76	-48.67	≤-13.24	PASS
11G	Ant1	Low	2412	3.96	-37	≤-16.04	PASS
		High	2462	4.55	-44.77	≤-15.45	PASS
11N20SISO	Ant1	Low	2412	3.71	-36.78	≤-16.29	PASS
		High	2462	3.19	-45.22	≤-16.81	PASS
11N40SISO	Ant1	Low	2422	1.11	-37.01	≤-18.89	PASS
		High	2452	1.96	-40.46	≤-18.04	PASS

Test Graphs

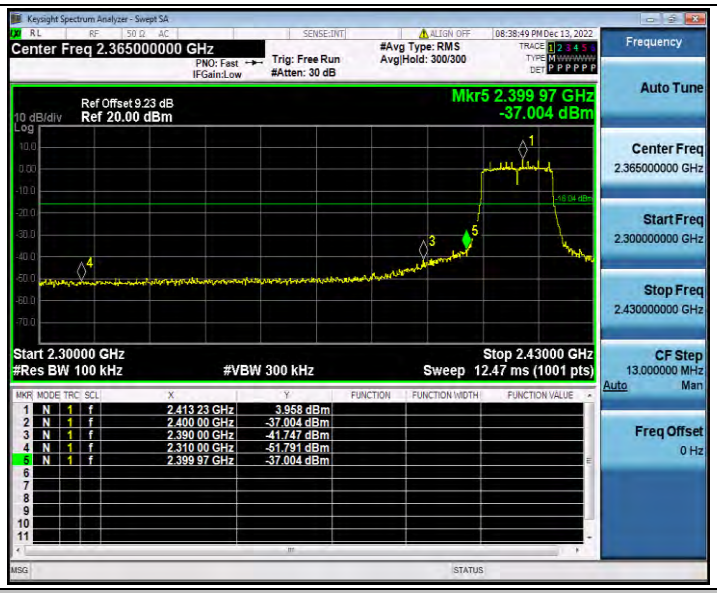
11B_Ant1_Low_2412



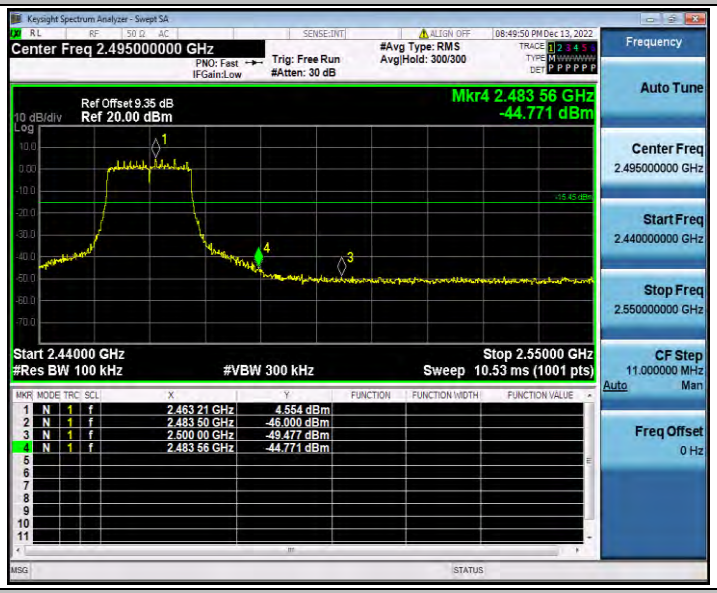
11B_Ant1_High_2462



11G_Ant1_Low_2412

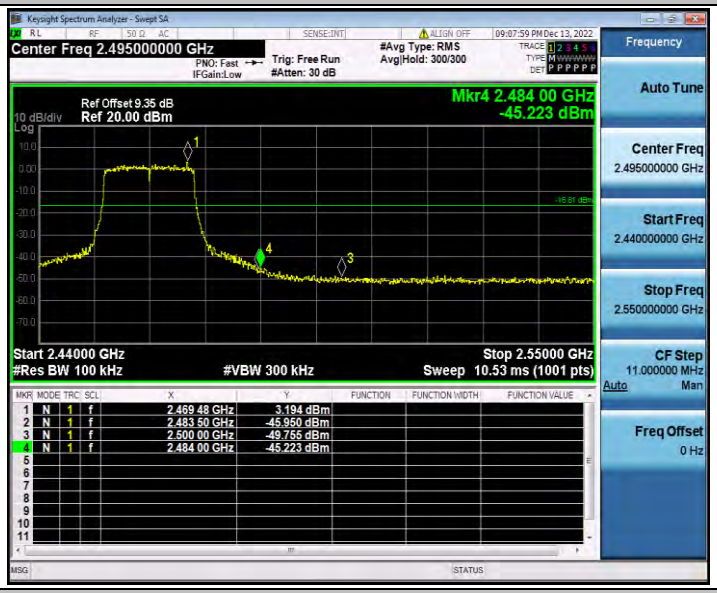


11G_Ant1_High_2462



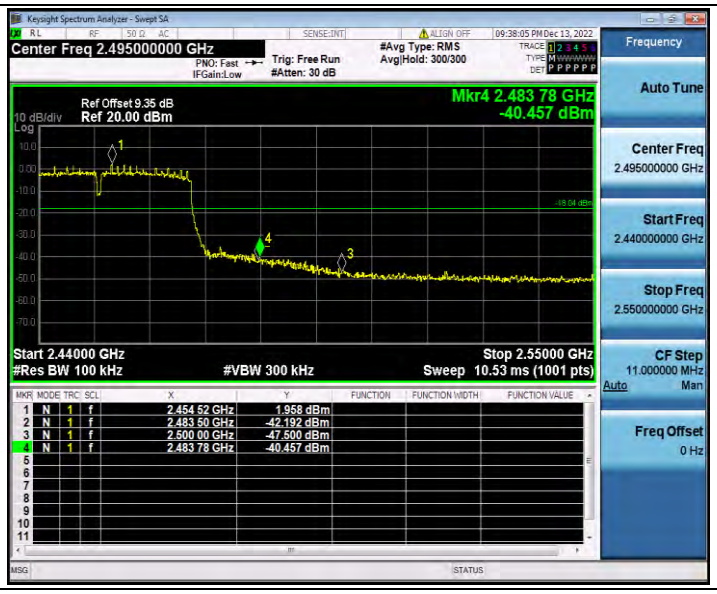
11N20SISO_Ant1_Low_2412

11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

11N40SISO_Ant1_High_2452


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.495000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 300/300
09:38:05 PM Dec 13, 2022
Frequency
Auto Tune
Center Freq
2.495000000 GHz
Start Freq
2.440000000 GHz
Stop Freq
2.550000000 GHz
CF Step
11.000000 MHz
Auto
Man
Freq Offset
0 Hz
Ref Offset 9.35 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr4 2.483 78 GHz
-40.457 dBm
Start 2.44000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.55000 GHz
Sweep 10.53 ms (1001 pts)
1 N 1 f 2.454 52 GHz 1.958 dBm
2 N 1 f 2.483 50 GHz -42.192 dBm
3 N 1 f 2.500 00 GHz -47.500 dBm
4 N 1 f 2.483 78 GHz -40.457 dBm
MSG
STATUS

Appendix A.6: Conducted Spurious Emission

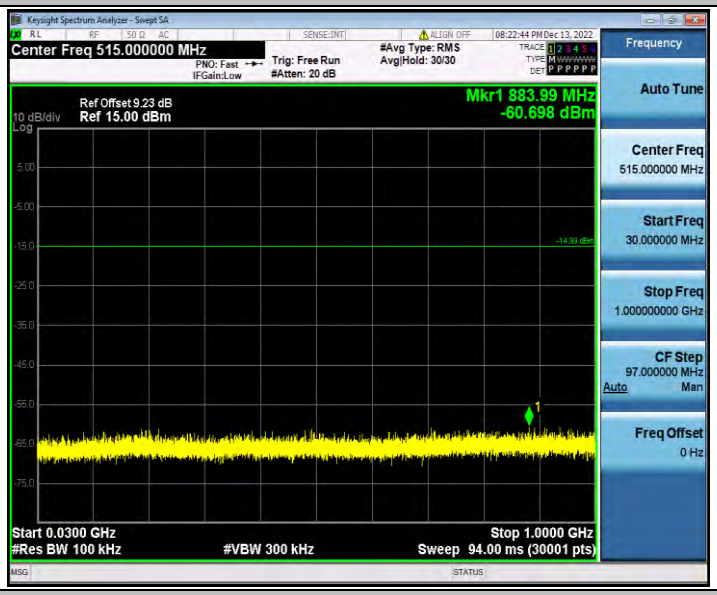
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.01	5.01	---	PASS
			30~1000	5.01	-60.7	≤-14.99	PASS
			1000~26500	5.01	-47.88	≤-14.99	PASS
		2437	Reference	5.26	5.26	---	PASS
			30~1000	5.26	-60.46	≤-14.74	PASS
			1000~26500	5.26	-47.06	≤-14.74	PASS
		2462	Reference	5.19	5.19	---	PASS
			30~1000	5.19	-60.47	≤-14.81	PASS
			1000~26500	5.19	-47.67	≤-14.81	PASS
11G	Ant1	2412	Reference	2.08	2.08	---	PASS
			30~1000	2.08	-60.97	≤-17.92	PASS
			1000~26500	2.08	-47.56	≤-17.92	PASS
		2437	Reference	2.56	2.56	---	PASS
			30~1000	2.56	-55.06	≤-17.44	PASS
			1000~26500	2.56	-46.97	≤-17.44	PASS
		2462	Reference	1.23	1.23	---	PASS
			30~1000	1.23	-59.57	≤-18.77	PASS
			1000~26500	1.23	-47.41	≤-18.77	PASS
11N20SISO	Ant1	2412	Reference	-0.03	-0.03	---	PASS
			30~1000	-0.03	-60.55	≤-20.03	PASS
			1000~26500	-0.03	-47.79	≤-20.03	PASS
		2437	Reference	2.01	2.01	---	PASS
			30~1000	2.01	-59.8	≤-17.99	PASS
			1000~26500	2.01	-46.76	≤-17.99	PASS
		2462	Reference	1.34	1.34	---	PASS
			30~1000	1.34	-60.16	≤-18.66	PASS
			1000~26500	1.34	-47.08	≤-18.66	PASS
11N40SISO	Ant1	2422	Reference	-0.18	-0.18	---	PASS
			30~1000	-0.18	-59.06	≤-20.18	PASS
			1000~26500	-0.18	-47.19	≤-20.18	PASS
		2437	Reference	-1.31	-1.31	---	PASS
			30~1000	-1.31	-60.28	≤-21.31	PASS
			1000~26500	-1.31	-48.02	≤-21.31	PASS
		2452	Reference	-0.97	-0.97	---	PASS
			30~1000	-0.97	-60.2	≤-20.97	PASS
			1000~26500	-0.97	-47.86	≤-20.97	PASS

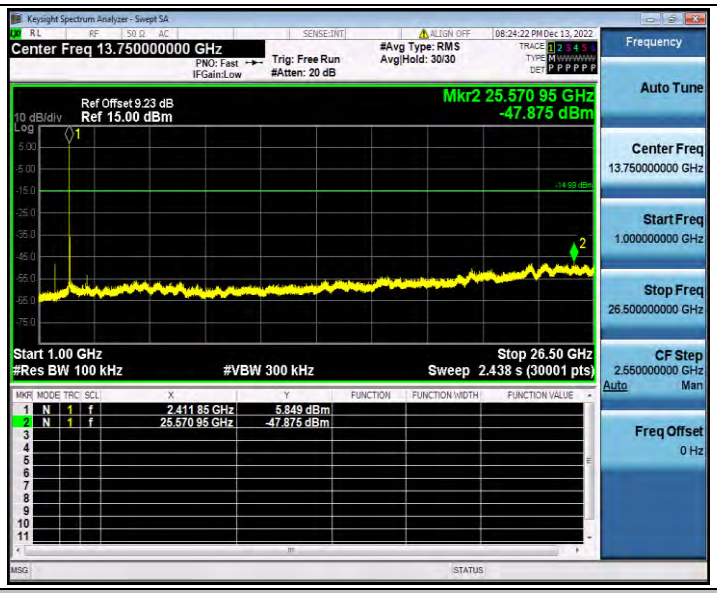
Test Graphs

11B_Ant1_2412_0~Reference

11B_Ant1_2412_30~1000

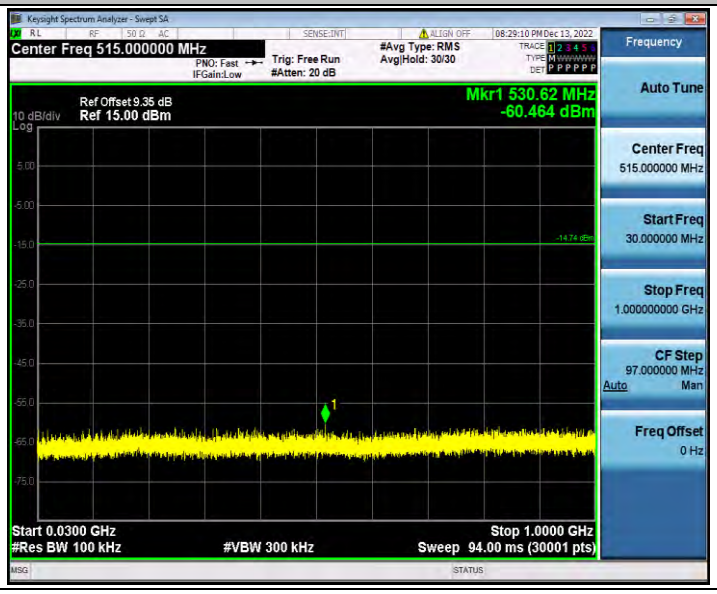


11B_Ant1_2412_1000~26500

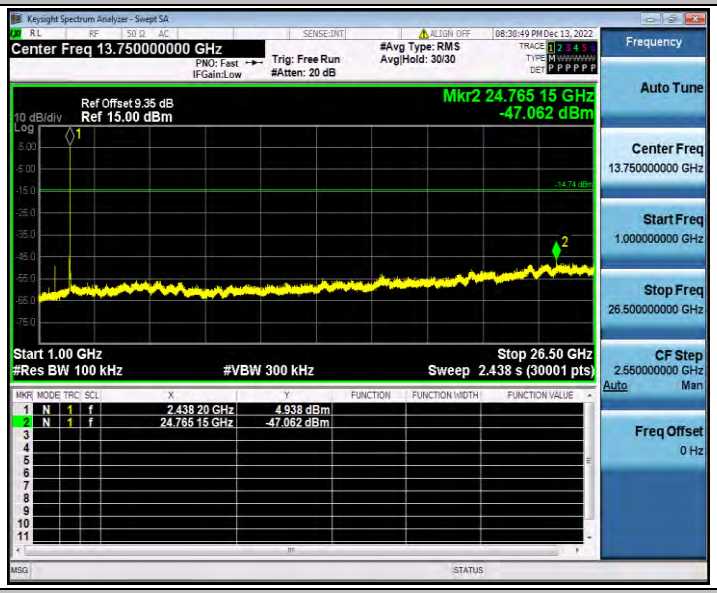


11B_Ant1_2437_0~Reference

11B_Ant1_2437_30~1000



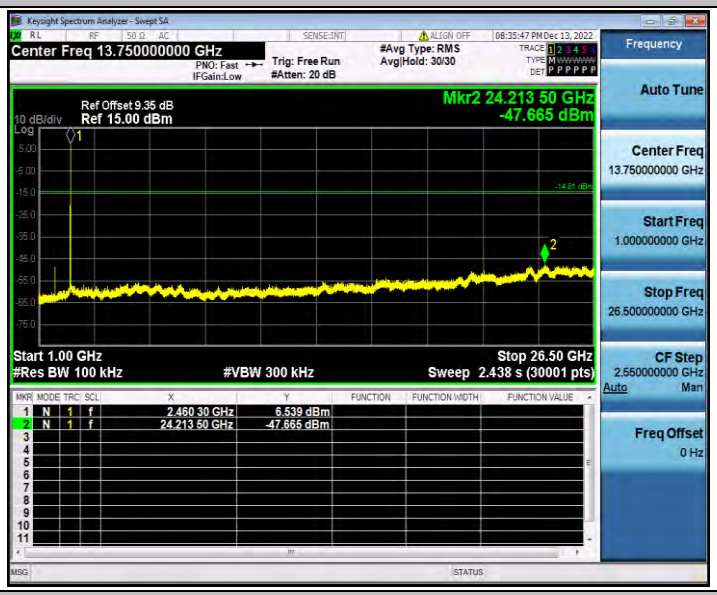
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

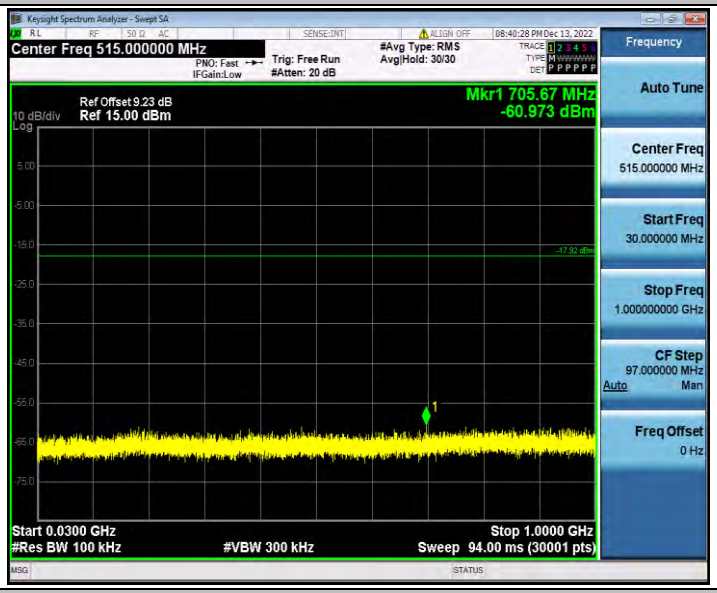
11B_Ant1_2462_30~1000

11B_Ant1_2462_1000~26500

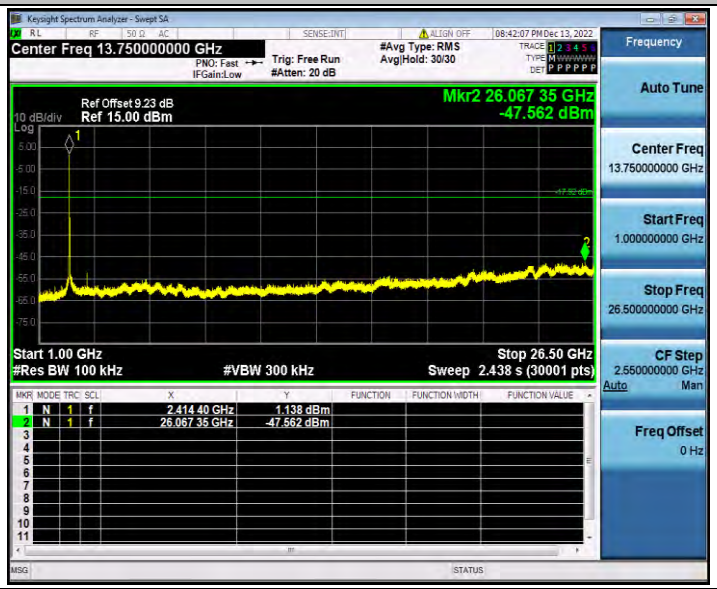


11G_Ant1_2412_0~Reference

11G_Ant1_2412_30~1000

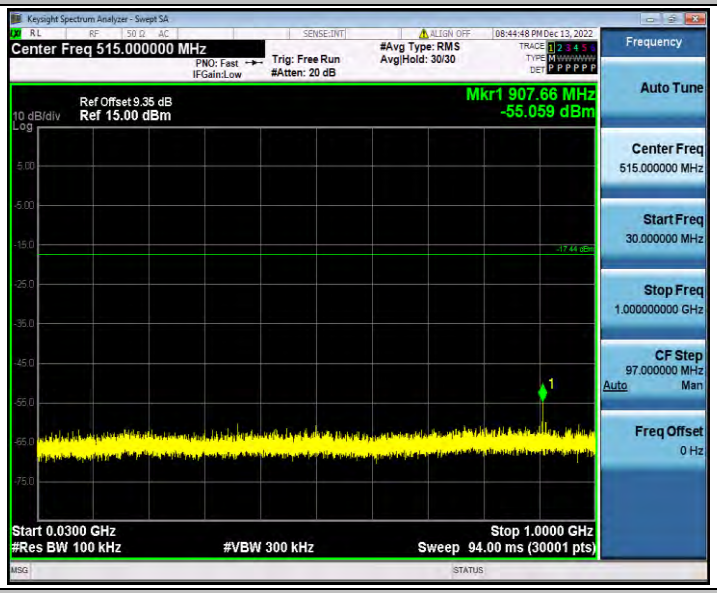


11G_Ant1_2412_1000~26500

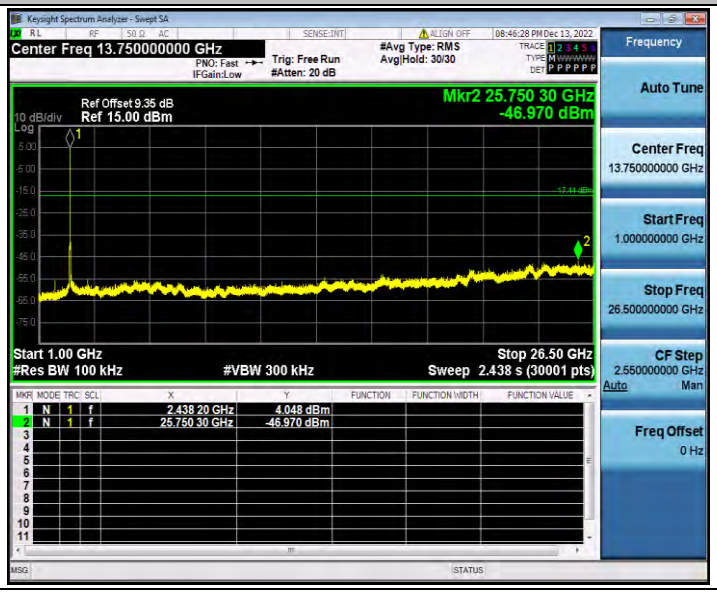


11G_Ant1_2437_0~Reference

11G_Ant1_2437_30~1000

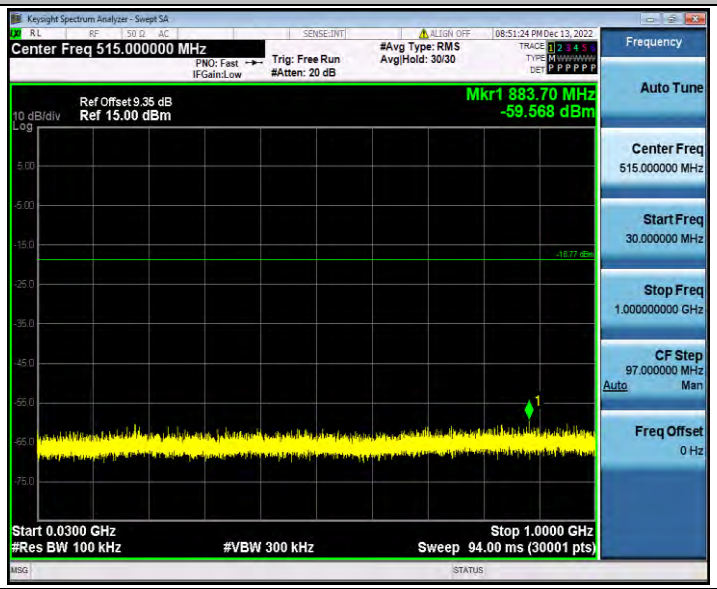


11G_Ant1_2437_1000~26500

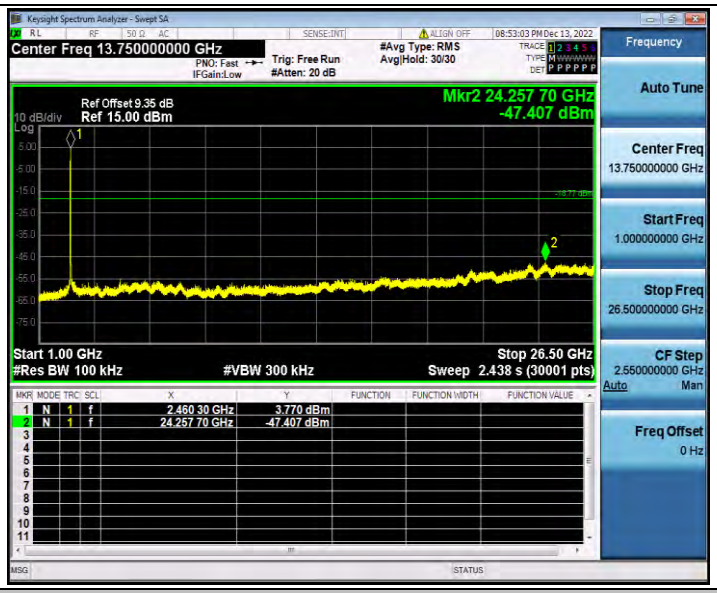


11G_Ant1_2462_0~Reference

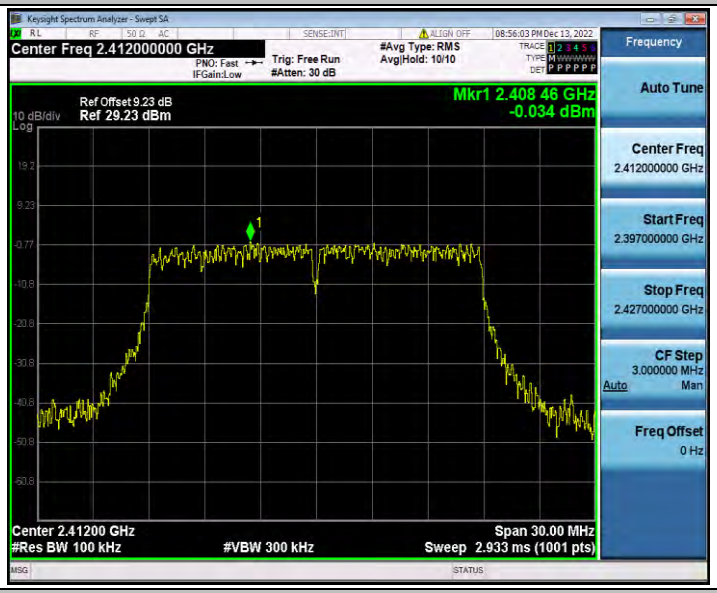
11G_Ant1_2462_30~1000



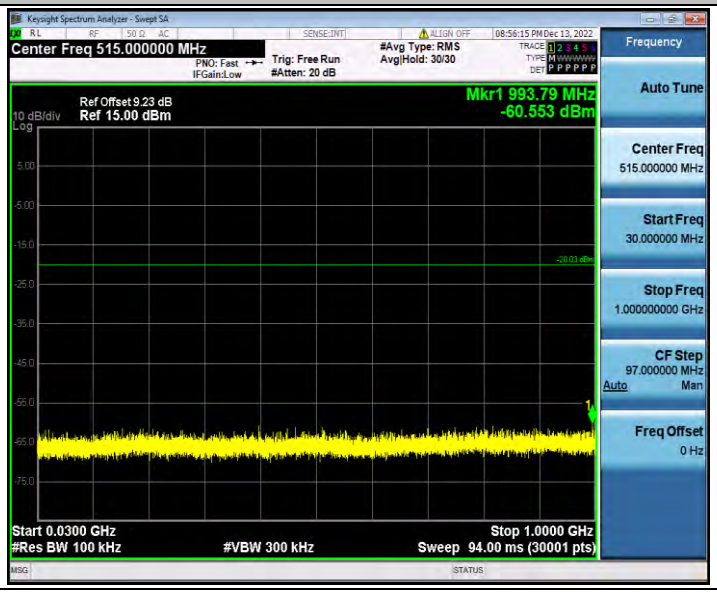
11G_Ant1_2462_1000~26500



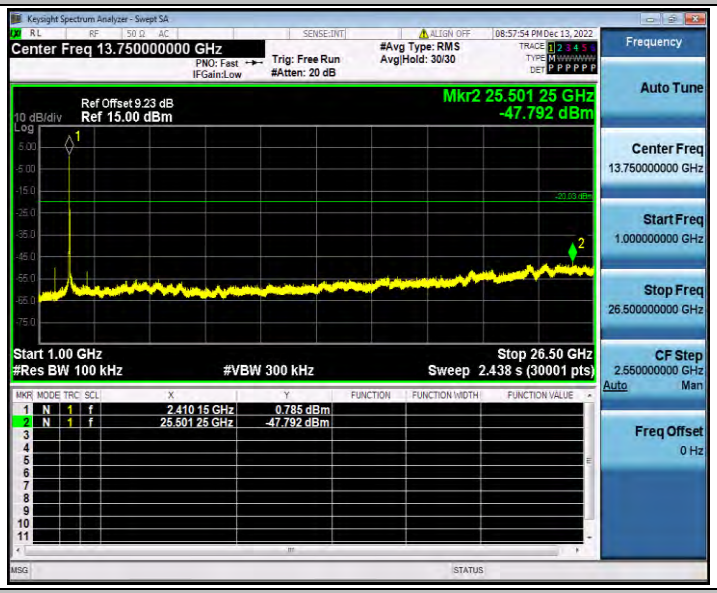
11N20SISO_Ant1_2412_0~Reference



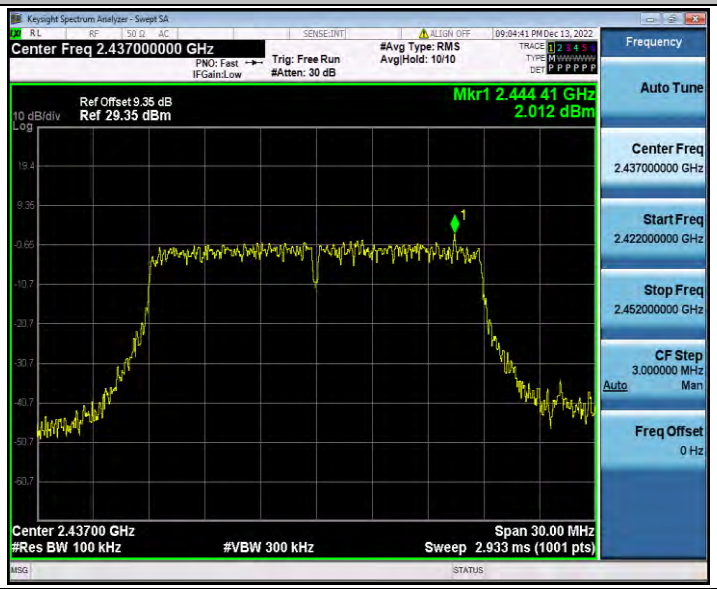
11N20SISO_Ant1_2412_30~1000



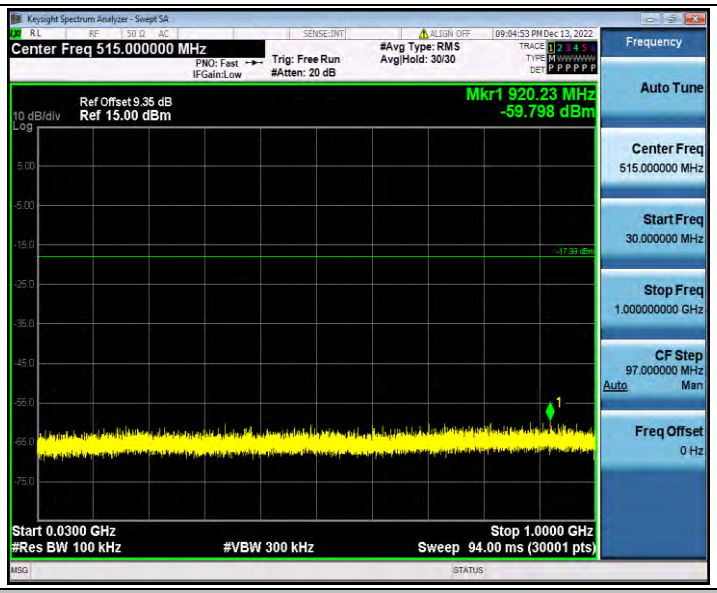
11N20SISO_Ant1_2412_1000~26500



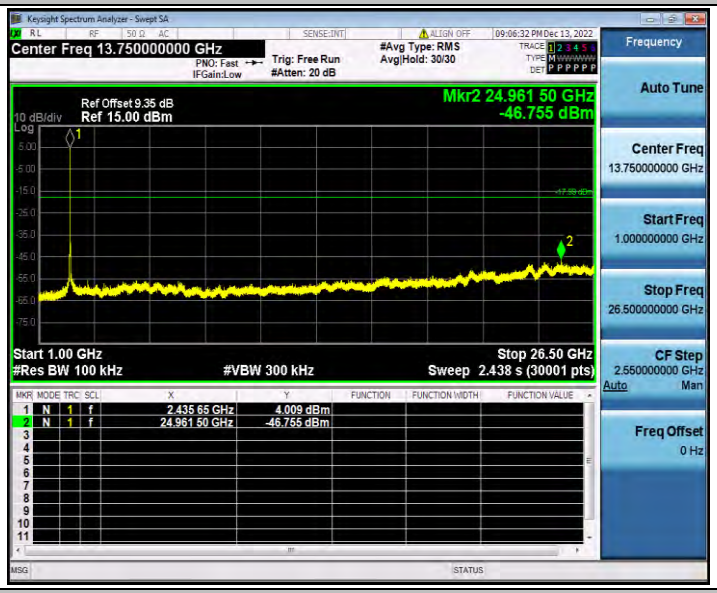
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

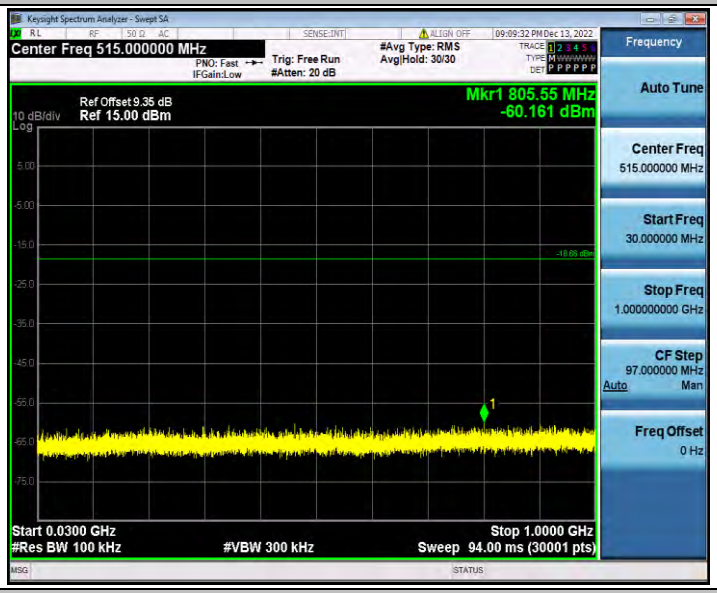


11N20SISO_Ant1_2437_1000~26500

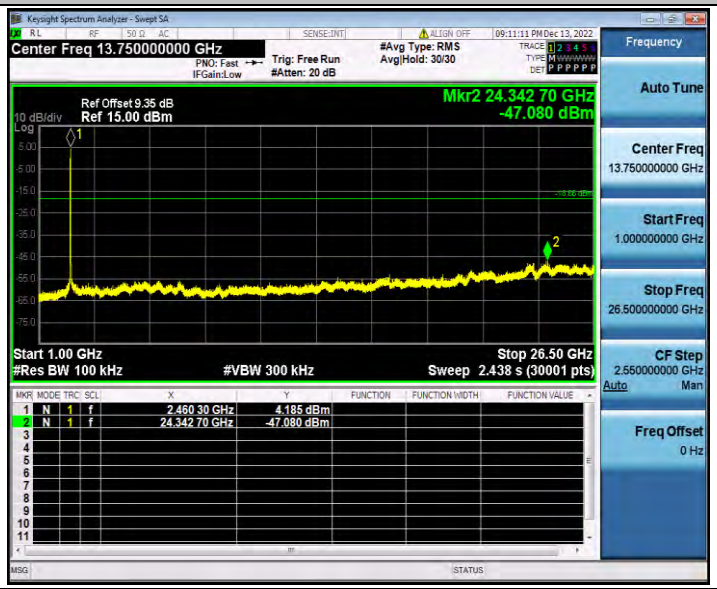


11N20SISO_Ant1_2462_0~Reference

11N20SISO_Ant1_2462_30~1000

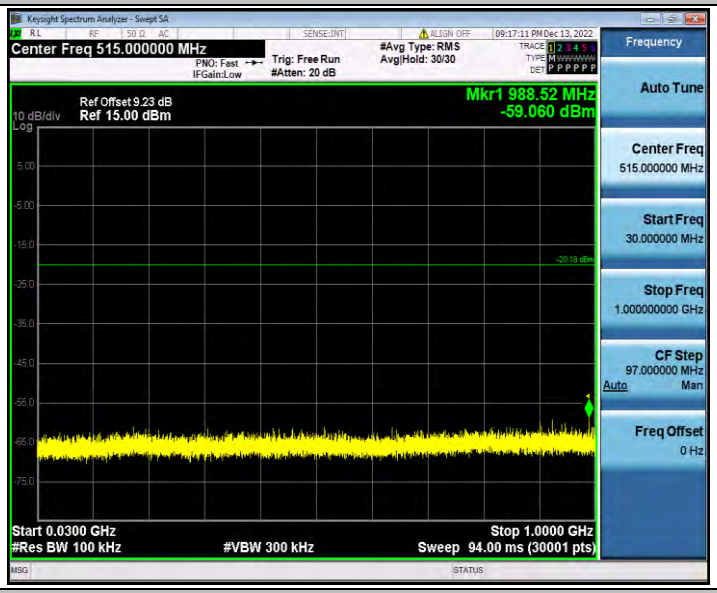


11N20SISO_Ant1_2462_1000~26500

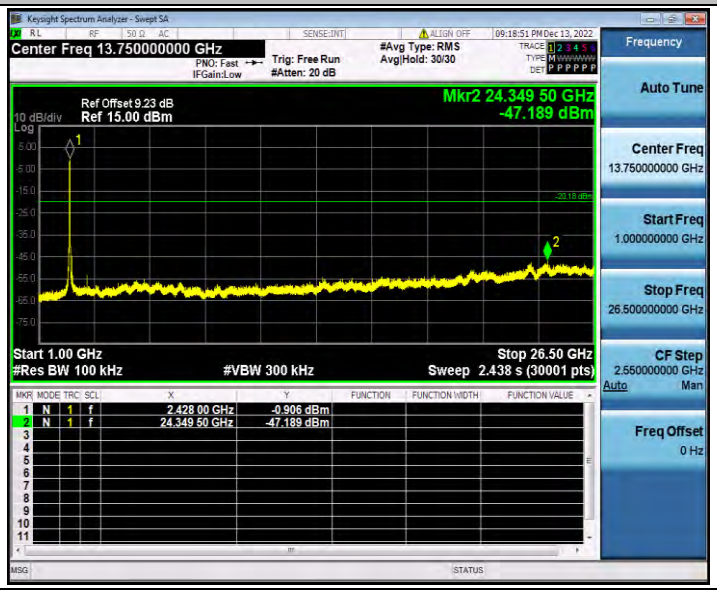


11N40SISO_Ant1_2422_0~Reference

11N40SISO_Ant1_2422_30~1000

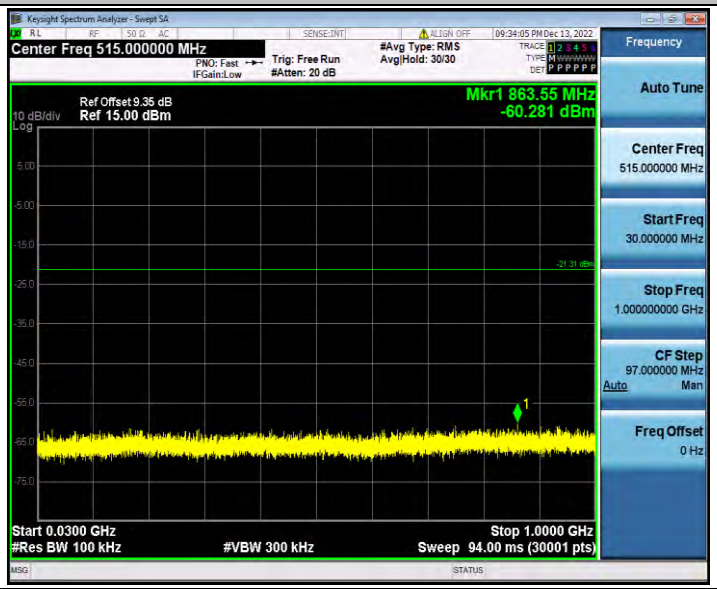


11N40SISO_Ant1_2422_1000~26500

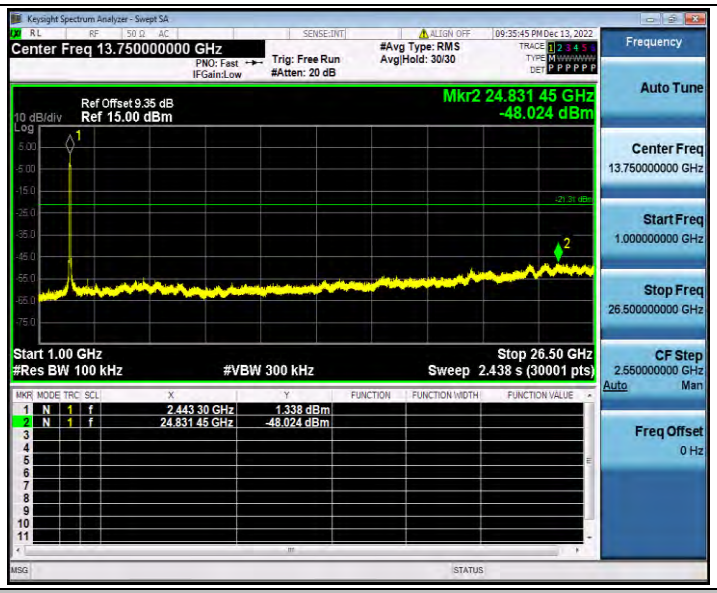


11N40SISO_Ant1_2437_0~Reference

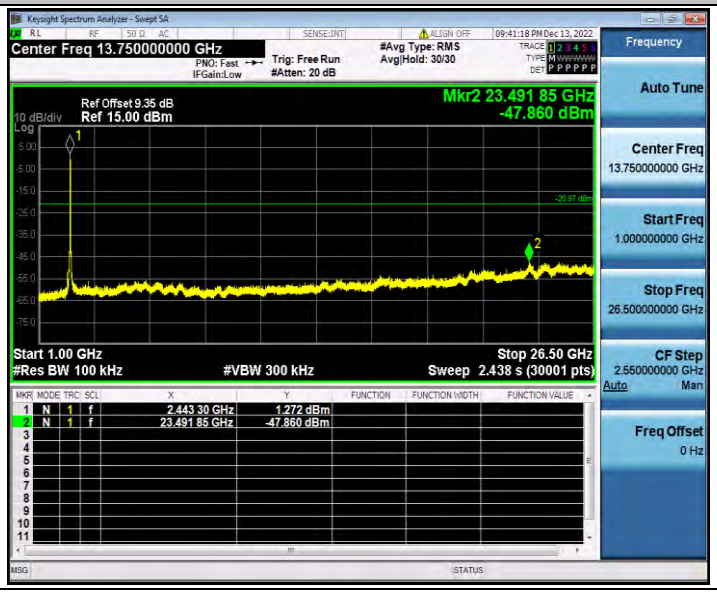
11N40SISO_Ant1_2437_30~1000



11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference

11N40SISO_Ant1_2452_30~1000

11N40SISO_Ant1_2452_1000~26500