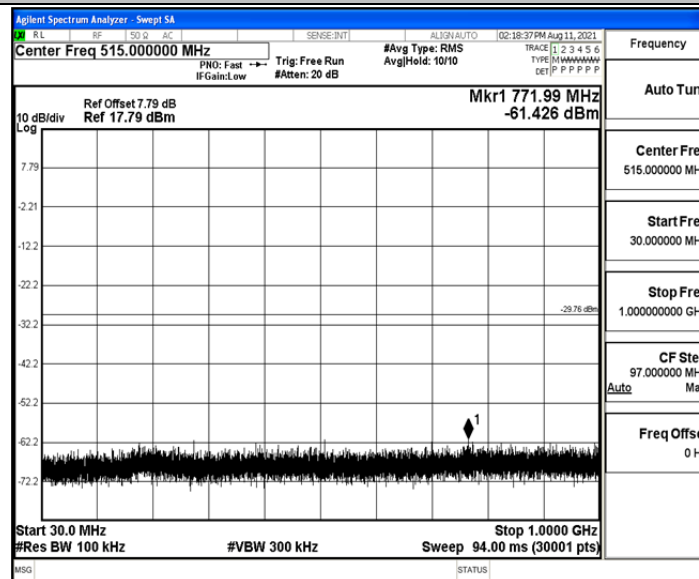
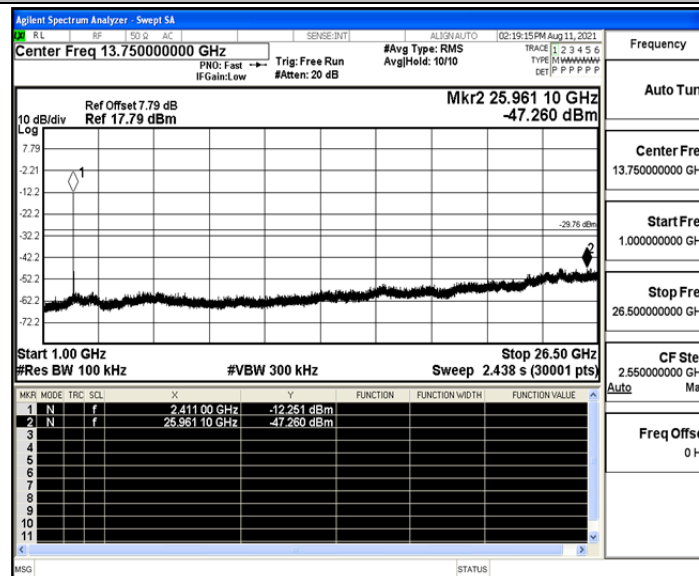




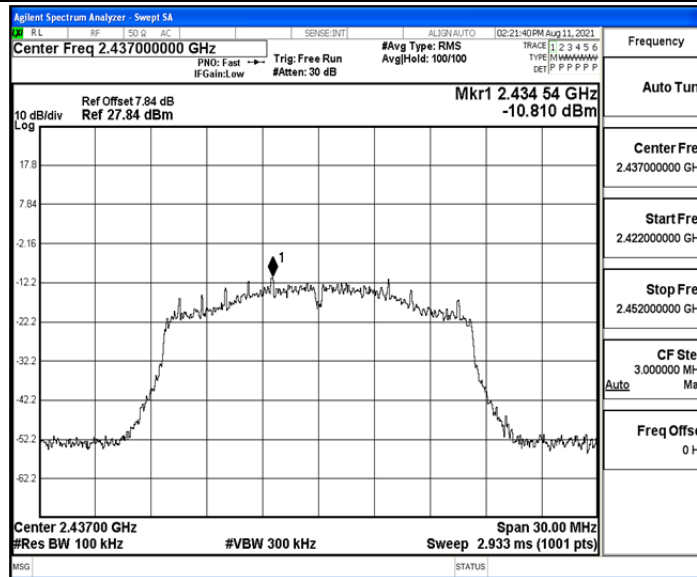
11G_Ant1_2412_30~1000



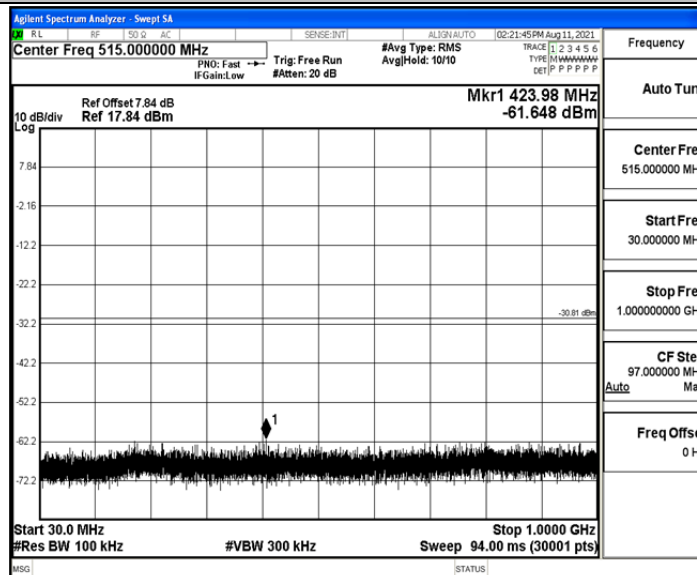
11G_Ant1_2412_1000~26500



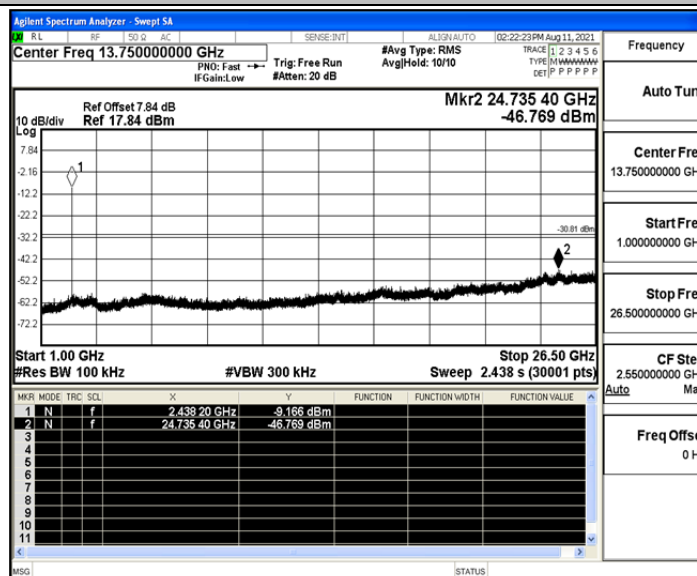
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000

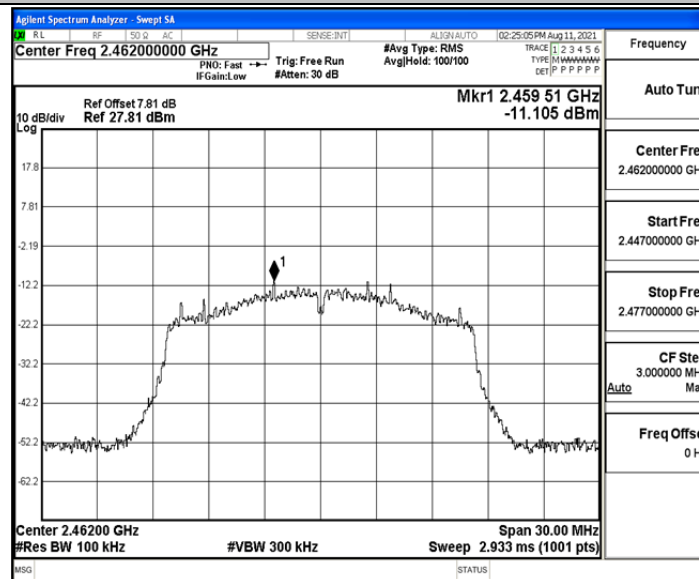


11G_Ant1_2437_1000~26500

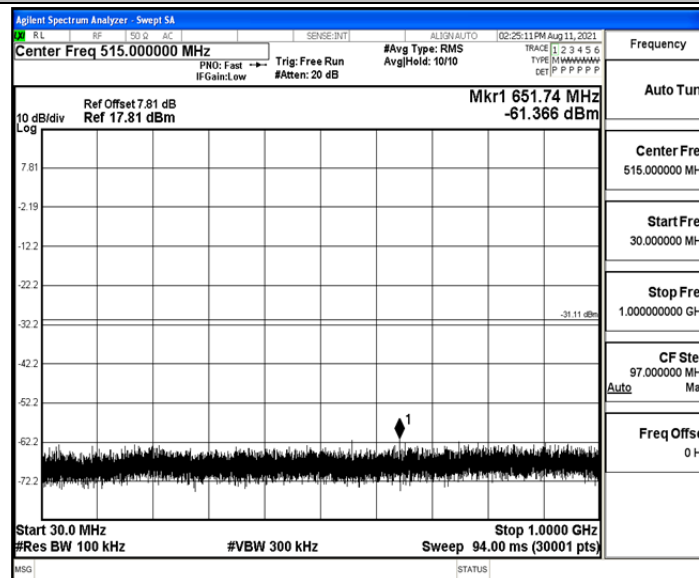




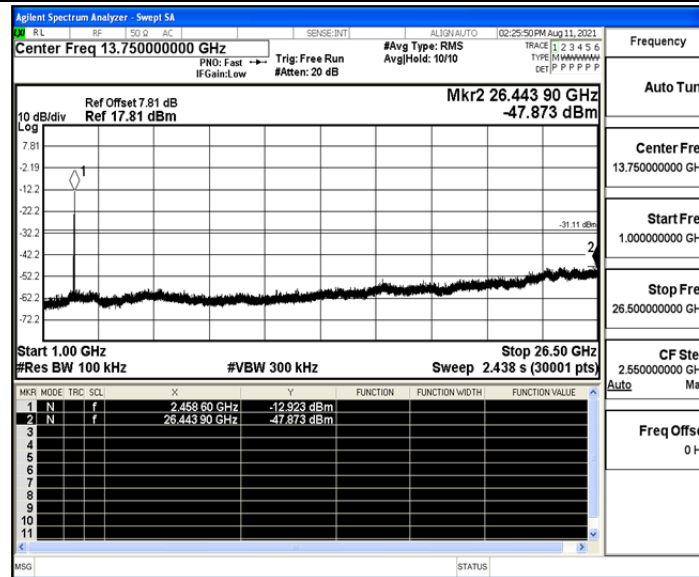
11G_Ant1_2462_0~Reference



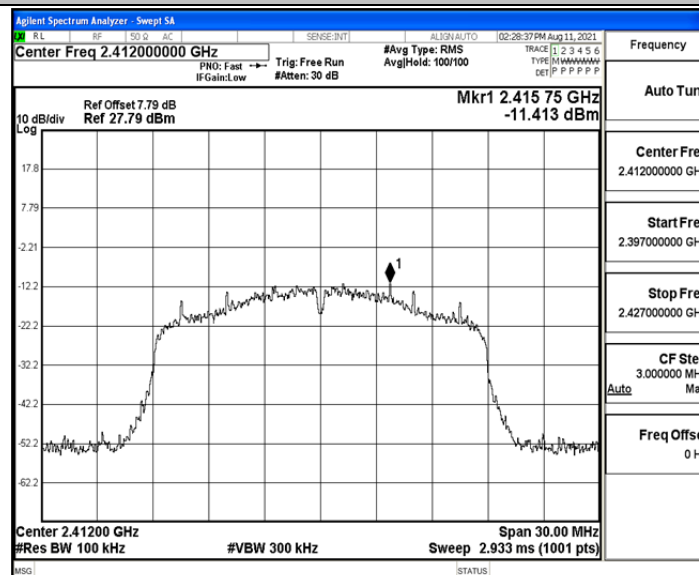
11G_Ant1_2462_30~1000



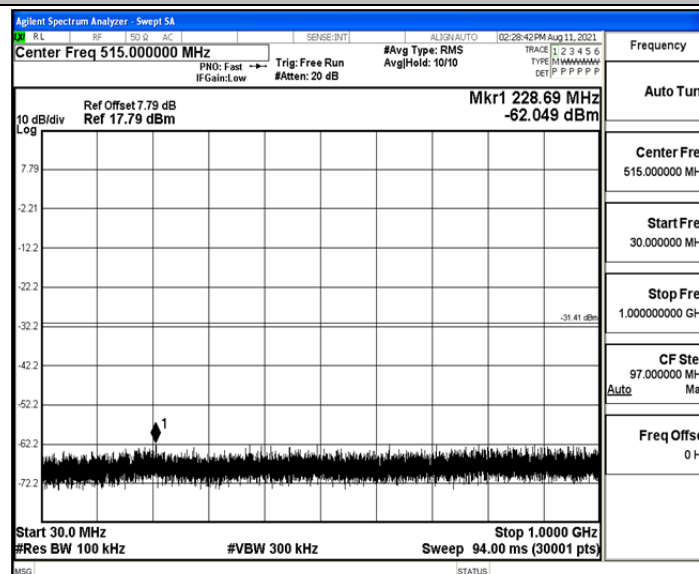
11G_Ant1_2462_1000~26500

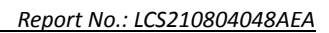


11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000





Agilent Spectrum Analyzer - Swept SA

RL RF SO G AC SENSE INT ALIGN AUTO 02-29-20 PM Aug 11, 2021

Center Freq 13.75000000 GHz #Avg Type: RMS
PNO: Fast Trig: Free Run Avg/Hold: 10/10
IF Gain: Low #Atten: 20 dB

Ref Offset 7.79 dB
Ref 17.79 dBm

Mkr2 24.749 85 GHz
-47.333 dBm

Log Scale: -10 dBm to -72.2 dBm

Start 1.00 GHz Stop 26.50 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 2.438 s (30001 pts)

MKR MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	2.409 30 GHz	-12.785 dBm			
2	N	f	24.749 85 GHz	-47.333 dBm			
3							
4							
5							
6							
7							
8							
9							
10							
11							

Agilent Spectrum Analyzer - Swept SA

RL RF SQ G AC [] SENSE INT ALIGN AUTO 02:30:59 PM Aug 11, 2021

Center Freq 2.43700000 GHz #Avg Type: RMS
PRF: Fast → Trig: Free Run Avg/Hold: 100/100
IF Gain: Low #Atten: 30 dB TYPE: [N] WARMW DET: [P] P P P P

Ref Offset 7.84 dB Mkr1 2.435 74 GHz
Ref 27.84 dBm -9.991 dBm

10 dB/div
Log

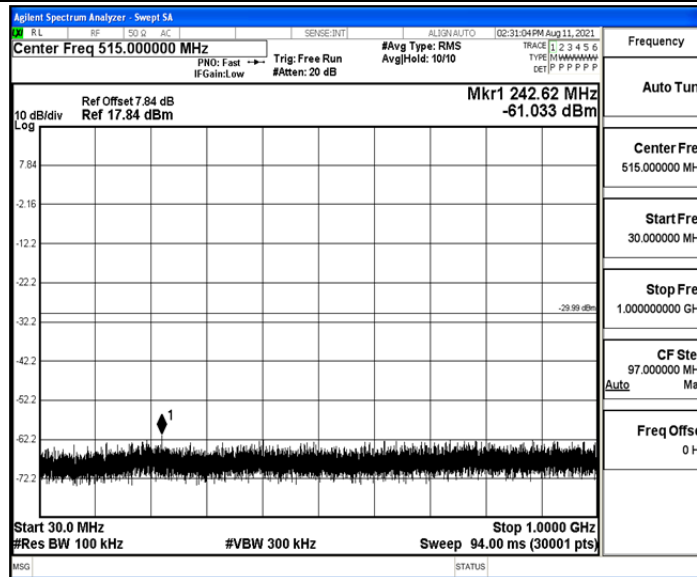
17.8
7.84
-2.16
-12.2
-22.2
-32.2
-42.2
-52.2
-62.2

Center 2.43700 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms (1001 pts)

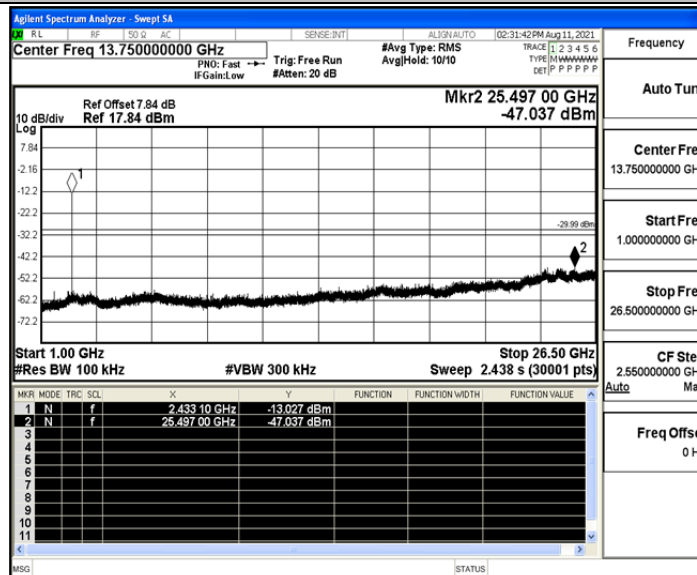
Span 30.00 MHz

Frequency	Auto Tun
Center Freq	2.43700000 GHz
Start Freq	2.42200000 GHz
Stop Freq	2.45200000 GHz
CF Ste	3.000000 MHz
Auto	Mn
Freq Offs	0 Hz

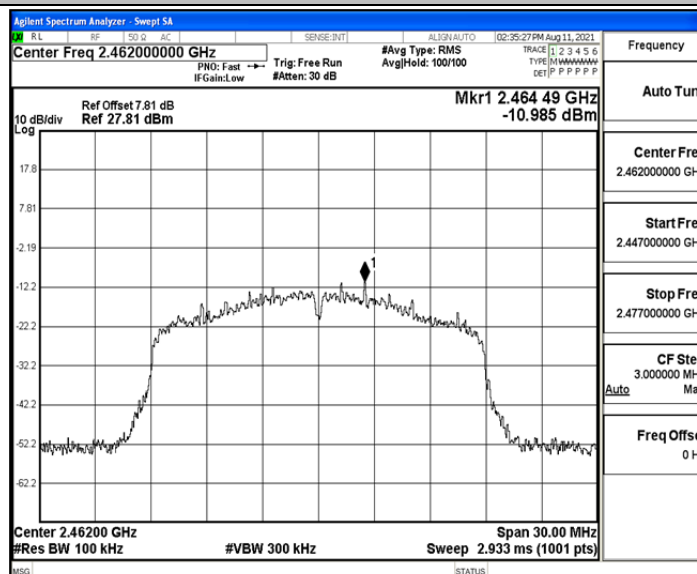
25 / 39



11N20SISO_Ant1_2437_1000~26500

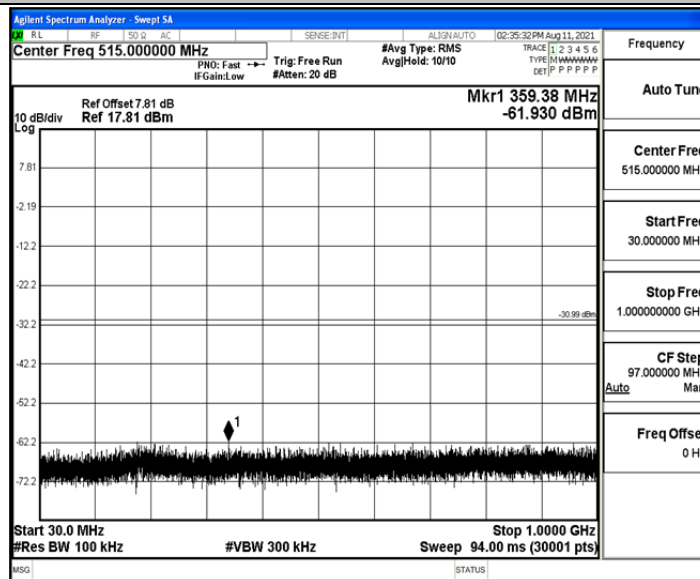


11N20SISO_Ant1_2462_0~Reference

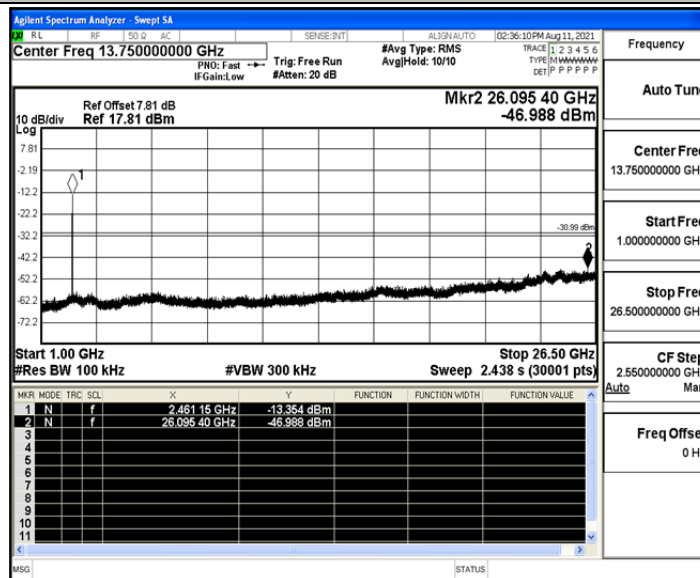




11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500





Appendix A.6: Duty Cycle

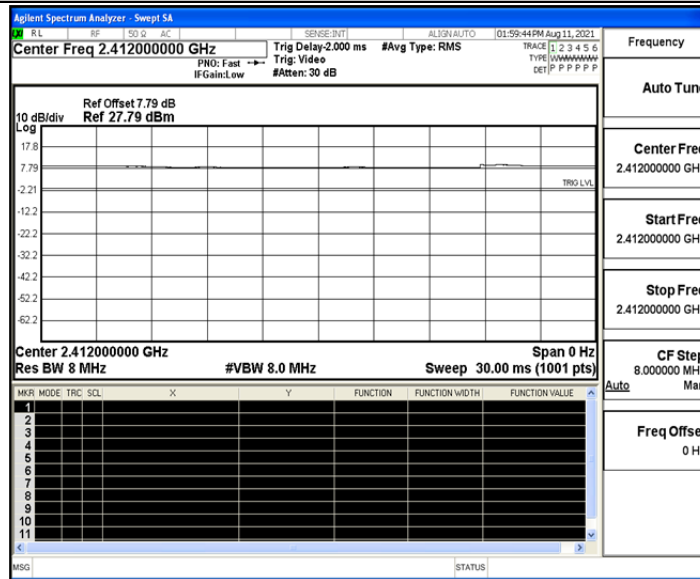
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	30.00	30.00	100.00	---	PASS
		2437	30.00	30.00	100.00	---	PASS
		2462	30.00	30.00	100.00	---	PASS
11G	Ant1	2412	2.79	2.81	99.29	---	PASS
		2437	2.79	2.81	99.29	---	PASS
		2462	7.01	7.03	99.72	---	PASS
11N20SISO	Ant1	2412	3.92	3.94	99.49	---	PASS
		2437	3.92	3.94	99.49	---	PASS
		2462	3.92	3.94	99.49	---	PASS

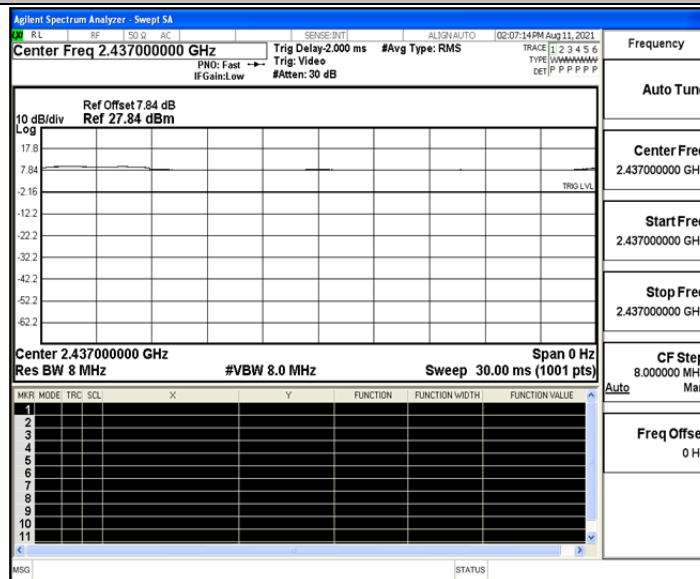


Test Graphs

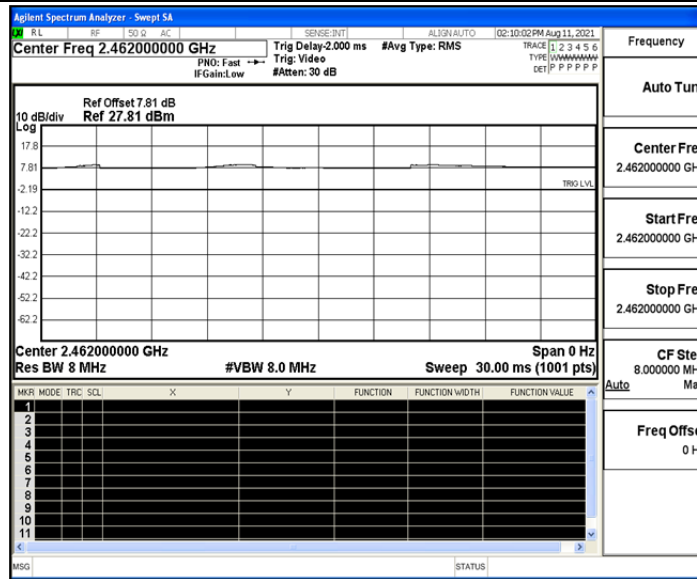
11B_Ant1_2412



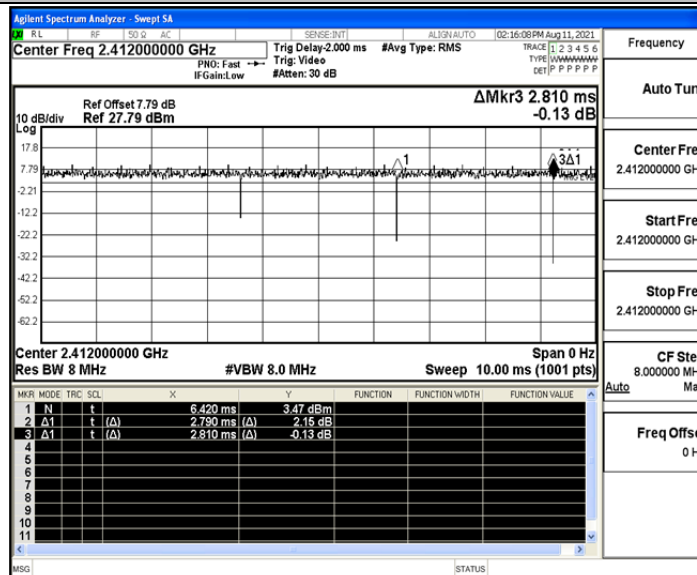
11B_Ant1_2437



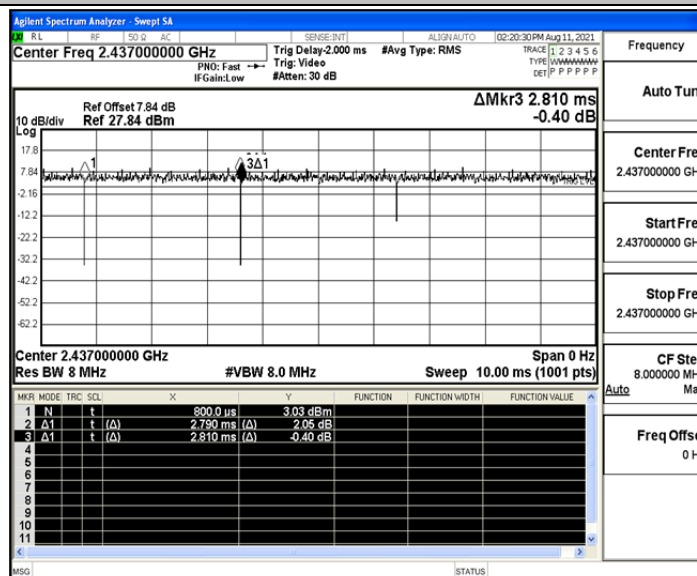
11B_Ant1_2462



11G_Ant1_2412

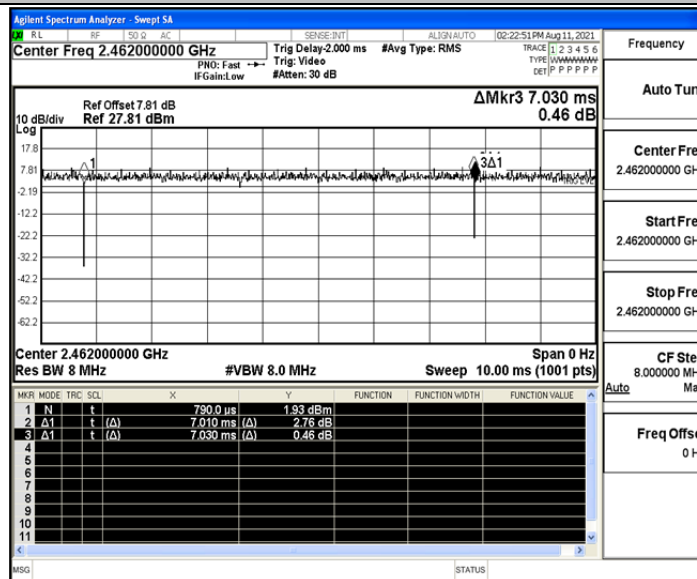


11G_Ant1_2437

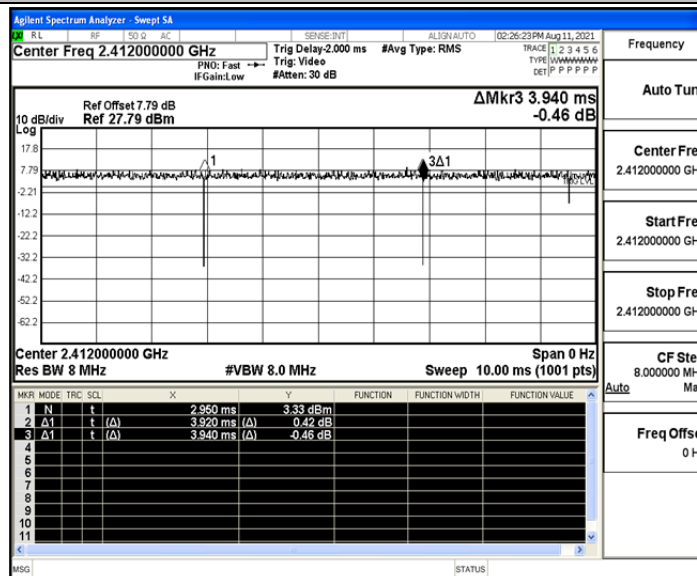




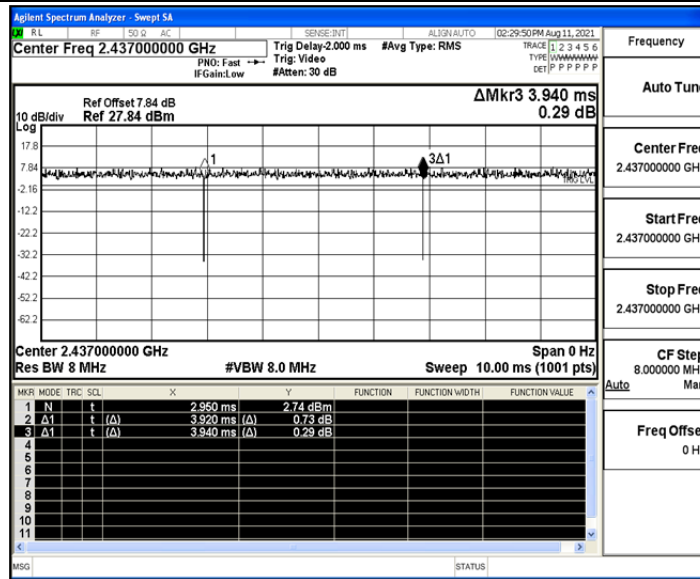
11G_Ant1_2462



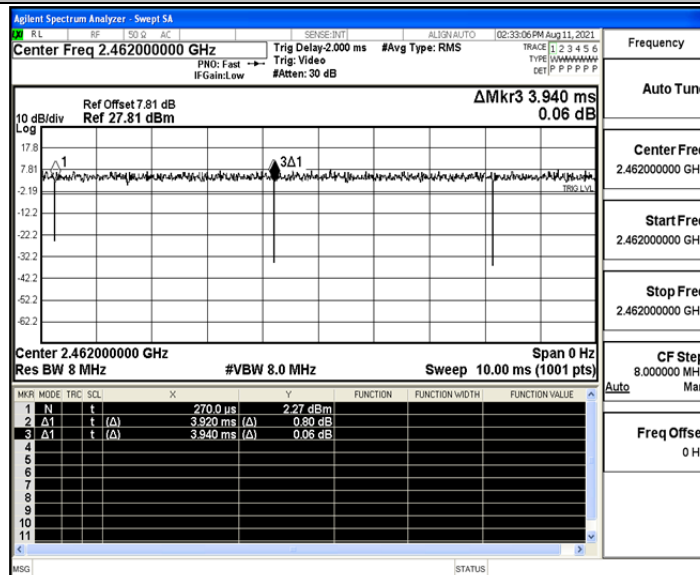
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462





Appendix A.7: Emissions in Restricted Bands

Test Result

TestMod e	Antenn a	ChNam e	Channel	Detecto r	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/ m]	Limit [dBuV/ m]	Verdic t
11B	Ant1	Low	2412	AV	2310.000	-49.28	≤-41.20	45.92	≤54	PASS
				AV	2389.310	-48.85	≤-41.20	46.35	≤54	PASS
				AV	2390.000	-48.86	≤-41.20	46.34	≤54	PASS
				Peak	2310.000	-43.69	≤-21.20	51.51	≤74	PASS
				Peak	2385.540	-38.53	≤-21.20	56.67	≤74	PASS
				Peak	2390.000	-43.68	≤-21.20	51.52	≤74	PASS
		High	2462	AV	2483.500	-48.49	≤-41.20	46.71	≤54	PASS
				AV	2499.950	-48.26	≤-41.20	46.94	≤54	PASS
				AV	2500.000	-48.26	≤-41.20	46.94	≤54	PASS
				Peak	2483.500	-42.78	≤-21.20	52.42	≤74	PASS
				Peak	2486.090	-40.2	≤-21.20	55.00	≤74	PASS
				Peak	2500.000	-43.11	≤-21.20	52.09	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-48.97	≤-41.20	46.23	≤54	PASS
				AV	2389.830	-48.38	≤-41.20	46.82	≤54	PASS
				AV	2390.000	-48.39	≤-41.20	46.81	≤54	PASS
				Peak	2310.000	-45.07	≤-21.20	50.13	≤74	PASS
				Peak	2341.080	-39.89	≤-21.20	55.31	≤74	PASS
				Peak	2390.000	-44.69	≤-21.20	50.51	≤74	PASS
		High	2462	AV	2483.500	-48.36	≤-41.20	46.84	≤54	PASS
				AV	2499.620	-48.08	≤-41.20	47.12	≤54	PASS
				AV	2500.000	-48.12	≤-41.20	47.08	≤54	PASS
				Peak	2483.500	-42.7	≤-21.20	52.50	≤74	PASS
				Peak	2492.910	-39.43	≤-21.20	55.77	≤74	PASS
				Peak	2500.000	-43.79	≤-21.20	51.41	≤74	PASS
11N20S ISO	Ant1	Low	2412	AV	2310.000	-49.01	≤-41.20	46.19	≤54	PASS
				AV	2385.670	-48.48	≤-41.20	46.72	≤54	PASS
				AV	2390.000	-48.51	≤-41.20	46.69	≤54	PASS
				Peak	2310.000	-44.96	≤-21.20	50.24	≤74	PASS
				Peak	2312.480	-39.88	≤-21.20	55.32	≤74	PASS
				Peak	2390.000	-43.24	≤-21.20	51.96	≤74	PASS
		High	2462	AV	2483.500	-48.4	≤-41.20	46.80	≤54	PASS
				AV	2496.980	-47.99	≤-41.20	47.21	≤54	PASS
				AV	2500.000	-48.06	≤-41.20	47.14	≤54	PASS
				Peak	2483.500	-42.23	≤-21.20	52.97	≤74	PASS
				Peak	2495.220	-38.95	≤-21.20	56.25	≤74	PASS
				Peak	2500.000	-41.57	≤-21.20	53.63	≤74	PASS



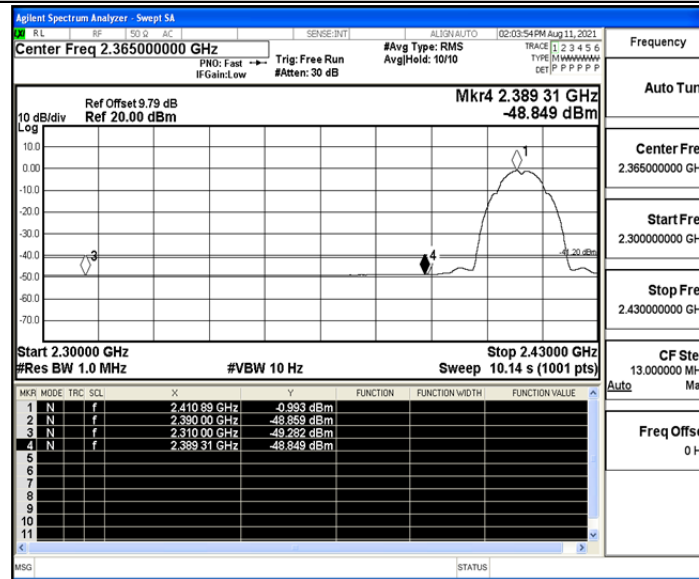
Note:

1. The Antenna Gain is compensated in the graph.
2. 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.

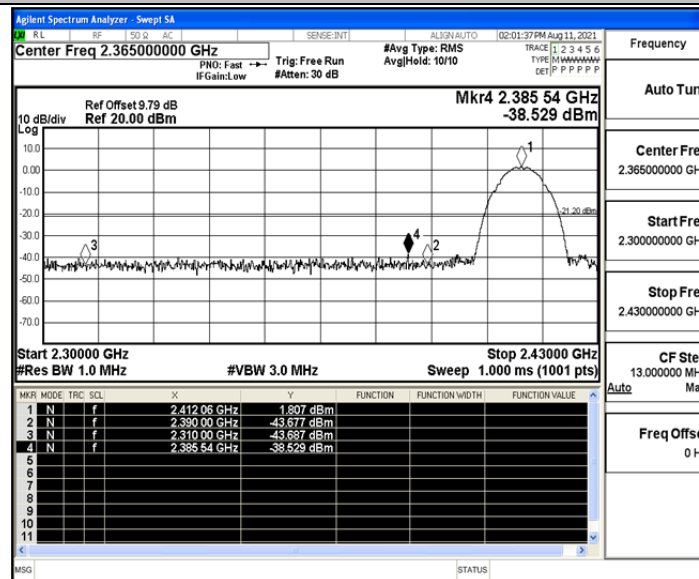


Test Graphs

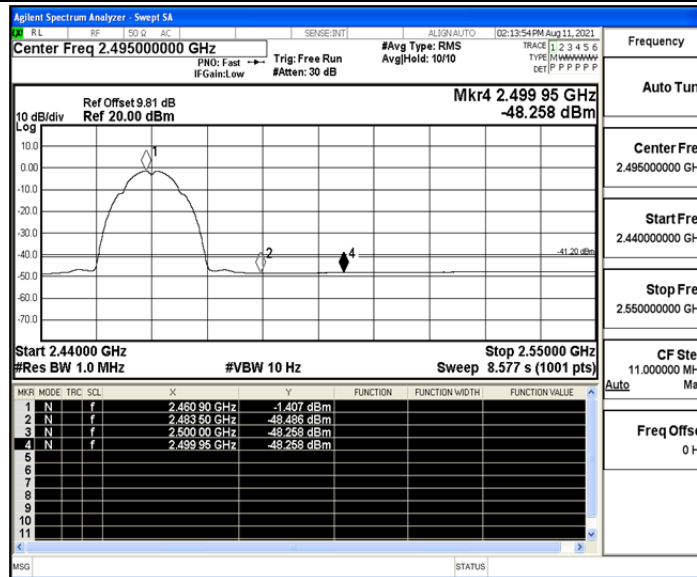
11B_Ant1_Low_2412_AV



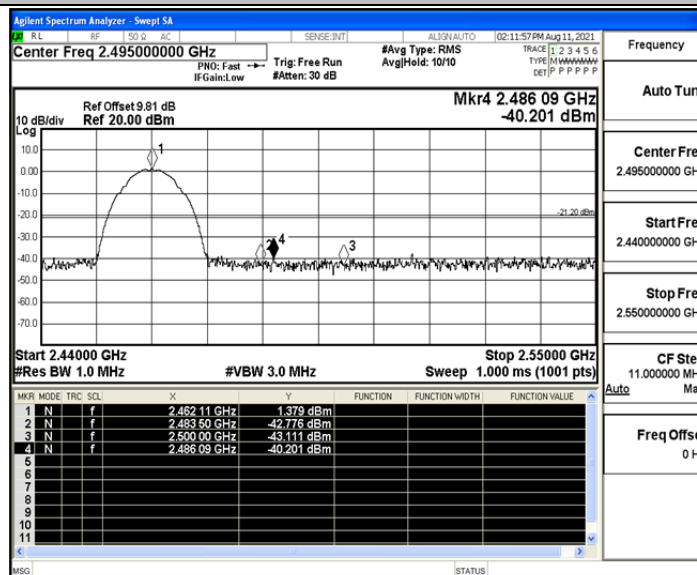
11B_Ant1_Low_2412_Peak



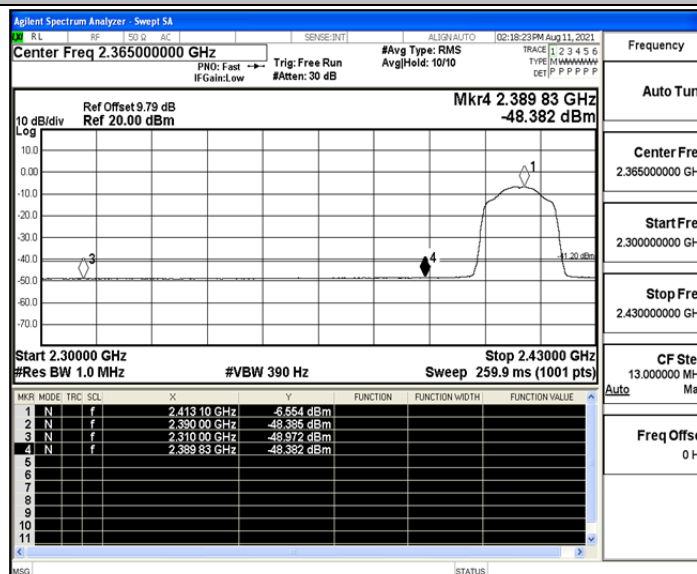
11B_Ant1_High_2462_AV



11B_Ant1_High_2462_Peak

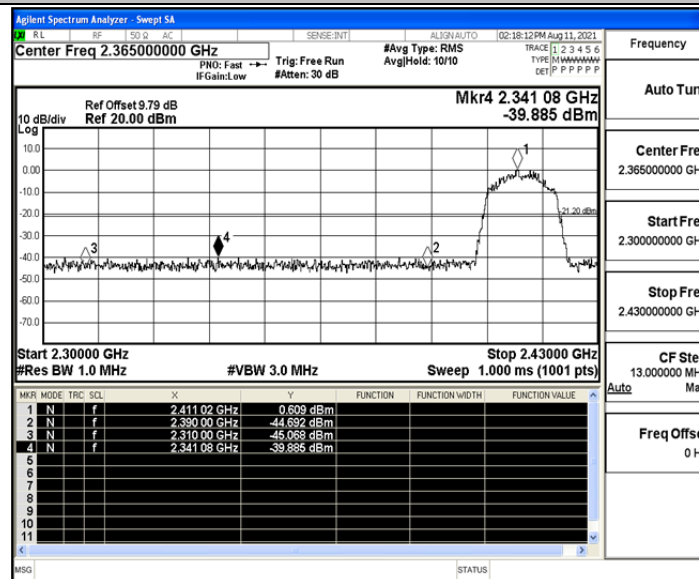


11G_Ant1_Low_2412_AV

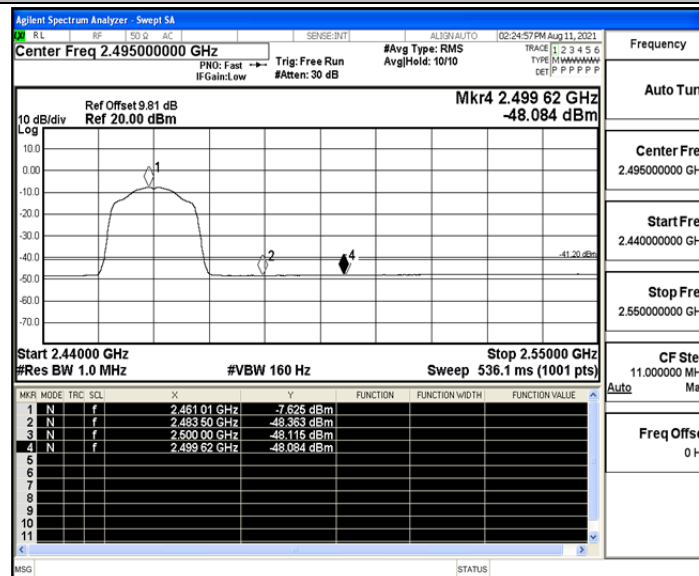




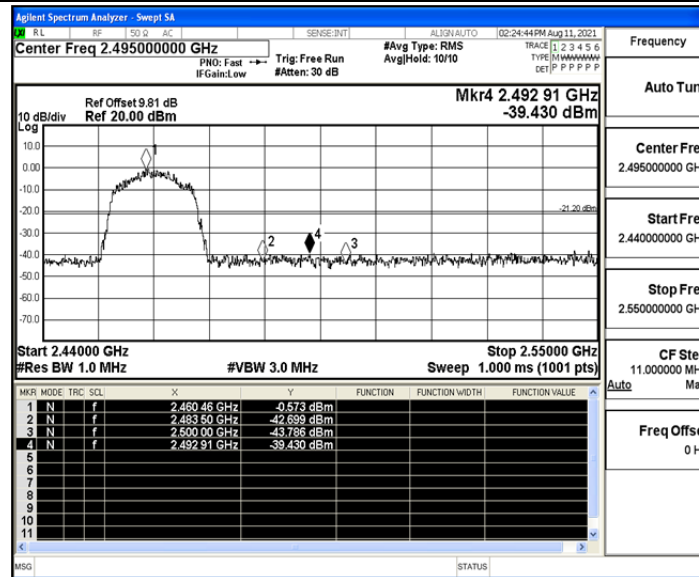
11G_Ant1_Low_2412_Peak



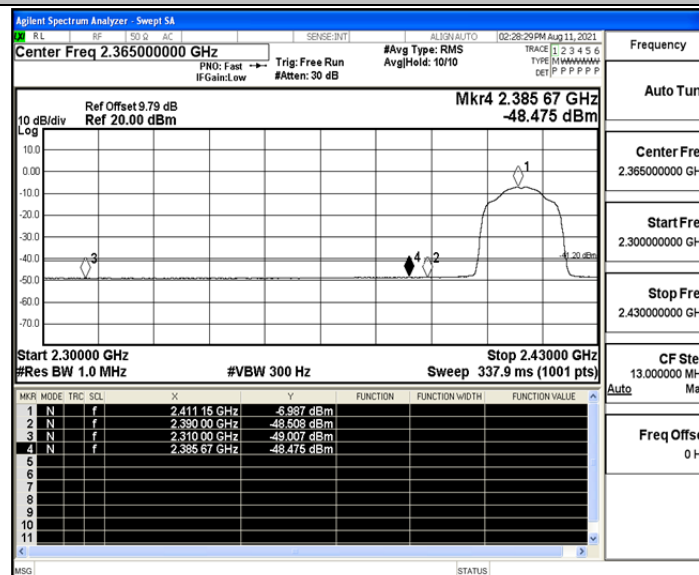
11G_Ant1_High_2462_AV



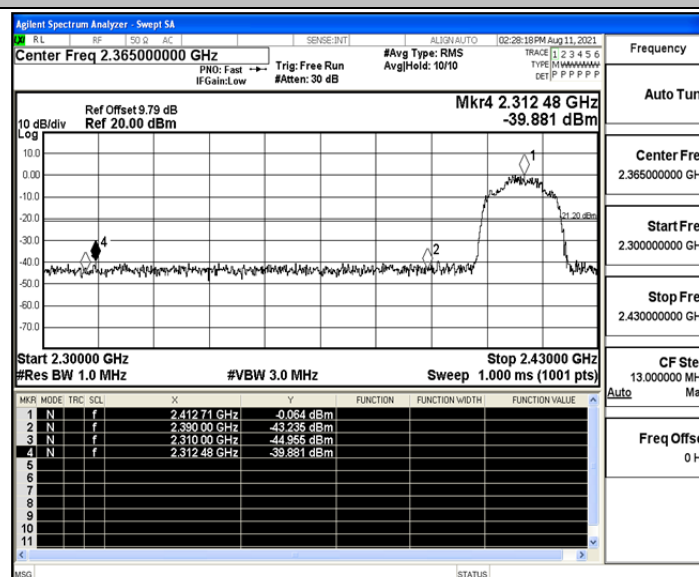
11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV

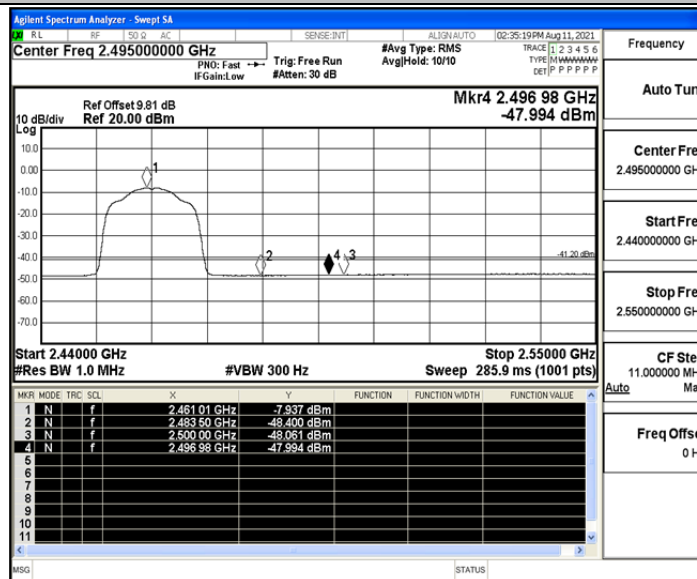


11N20SISO_Ant1_Low_2412_Peak





11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak

