



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: TABLET

Test Model: ELITE10QH

Environmental Conditions

Temperature:	21.1° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan



C.1 6dB Bandwidth

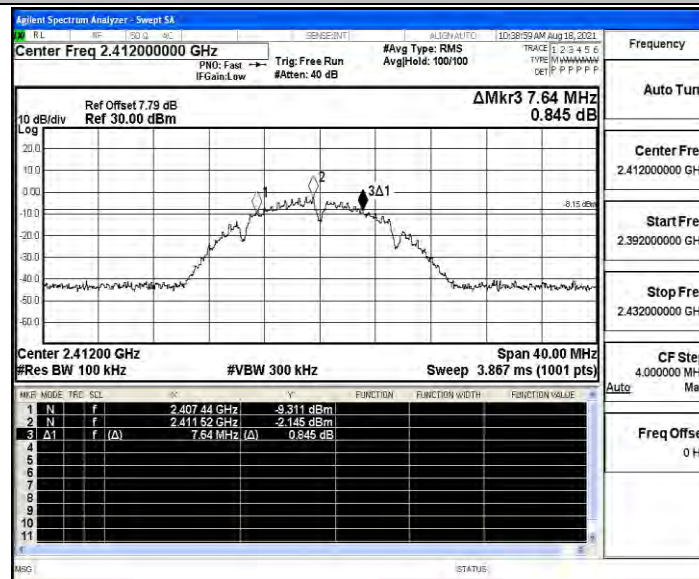
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.640	2407.440	2415.080	0.5	PASS
		2437	7.640	2433.920	2441.560	0.5	PASS
		2462	8.160	2457.440	2465.600	0.5	PASS
11G	Ant1	2412	15.480	2404.040	2419.520	0.5	PASS
		2437	13.280	2431.960	2445.240	0.5	PASS
		2462	15.840	2453.760	2469.600	0.5	PASS
11N20SISO	Ant1	2412	15.120	2403.200	2418.320	0.5	PASS
		2437	13.880	2431.960	2445.840	0.5	PASS
		2462	16.440	2453.160	2469.600	0.5	PASS
11N40SISO	Ant1	2422	35.920	2403.840	2439.760	0.5	PASS
		2437	20.240	2431.880	2452.120	0.5	PASS
		2452	14.240	2442.800	2457.040	0.5	PASS

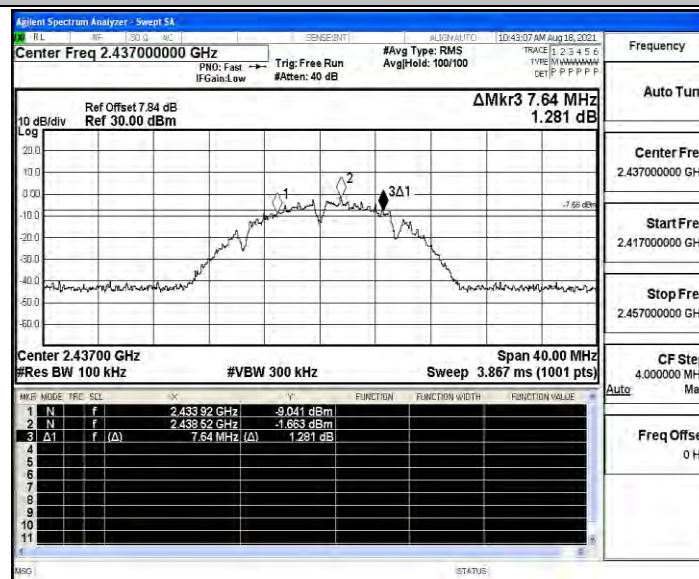


Test Graphs

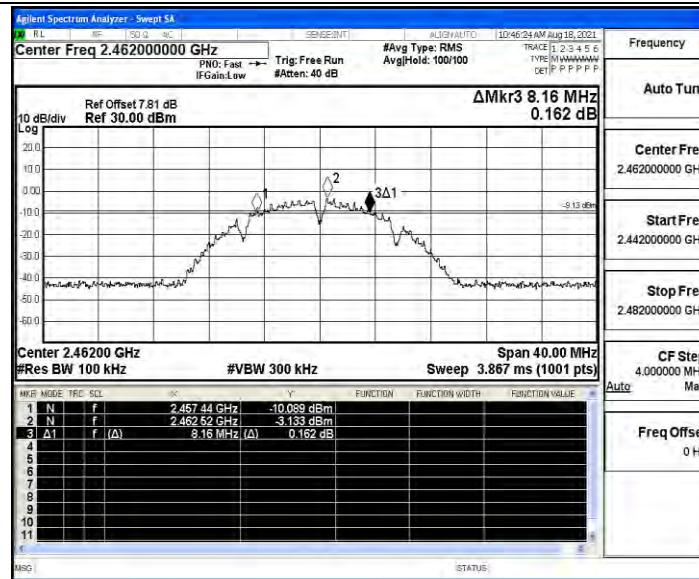
11B_Ant1_2412



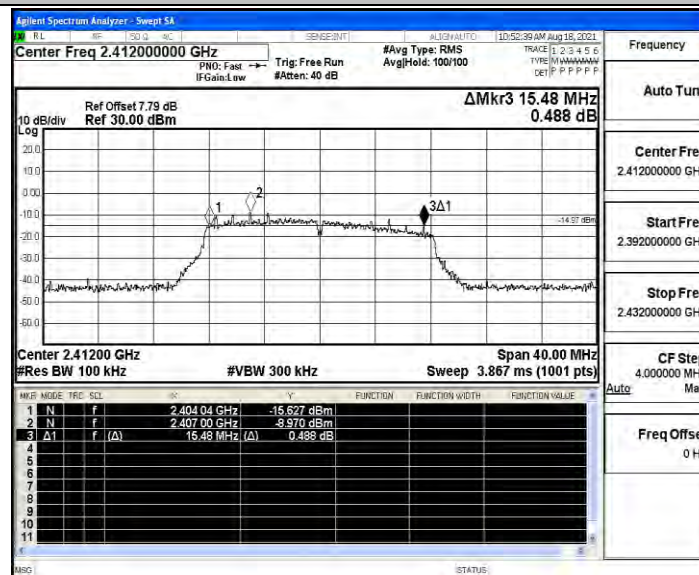
11B_Ant1_2437



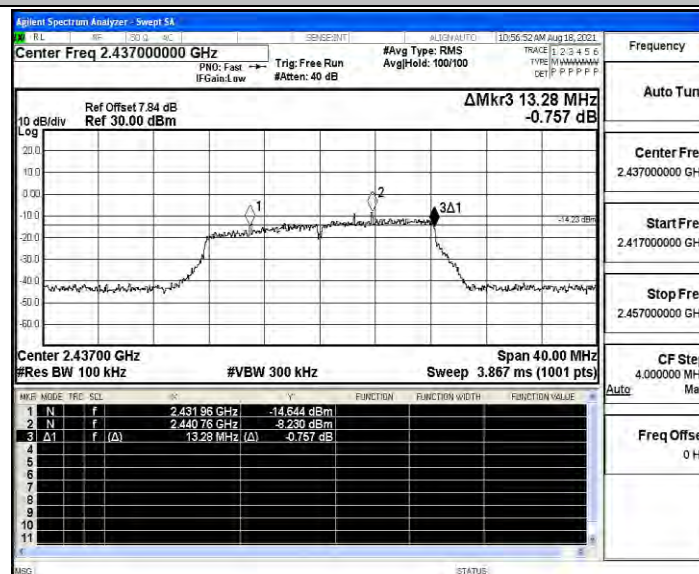
11B_Ant1_2462



11G_Ant1_2412

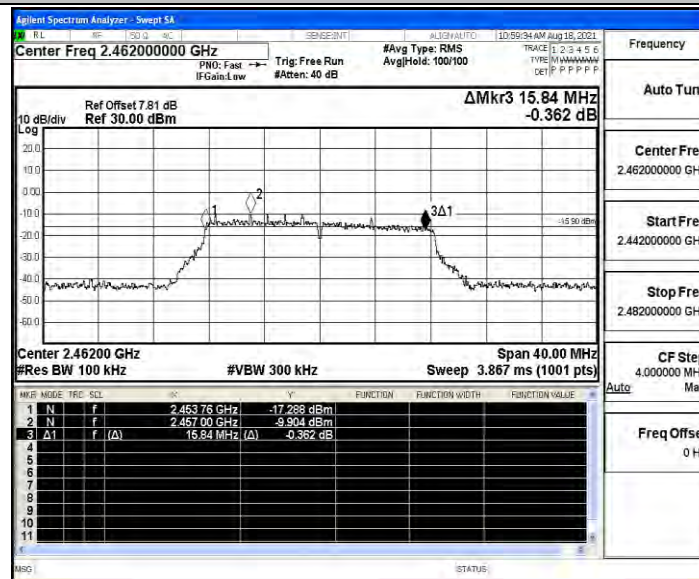


11G_Ant1_2437

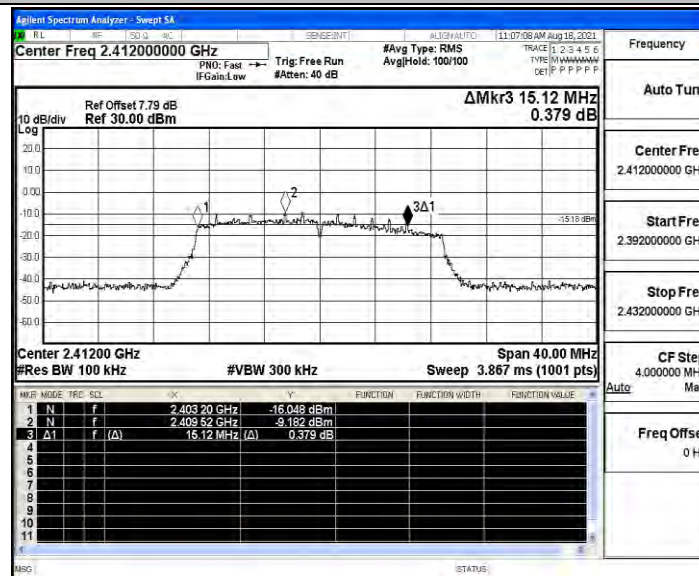




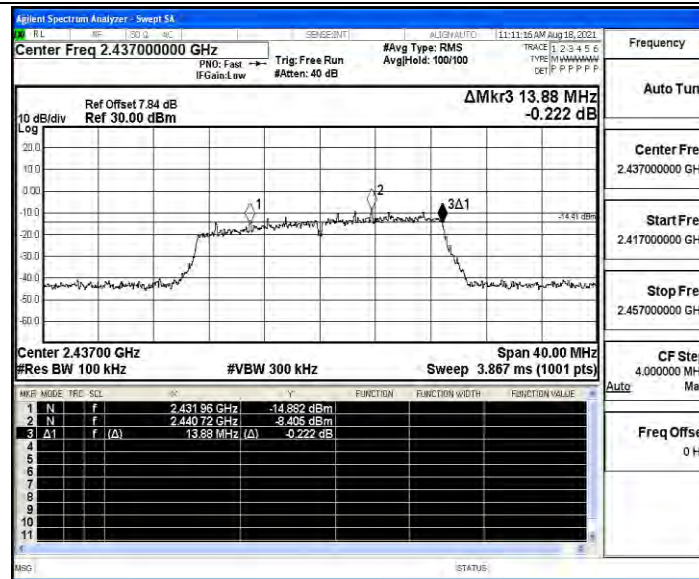
11G_Ant1_2462



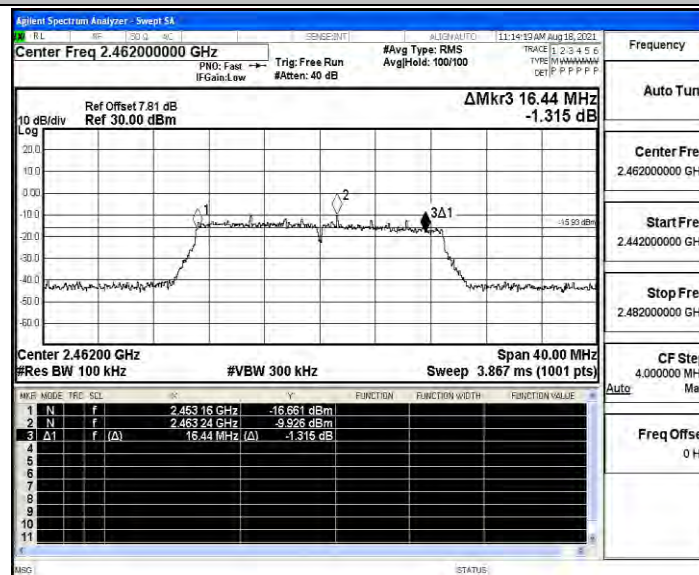
11N20SISO_Ant1_2412



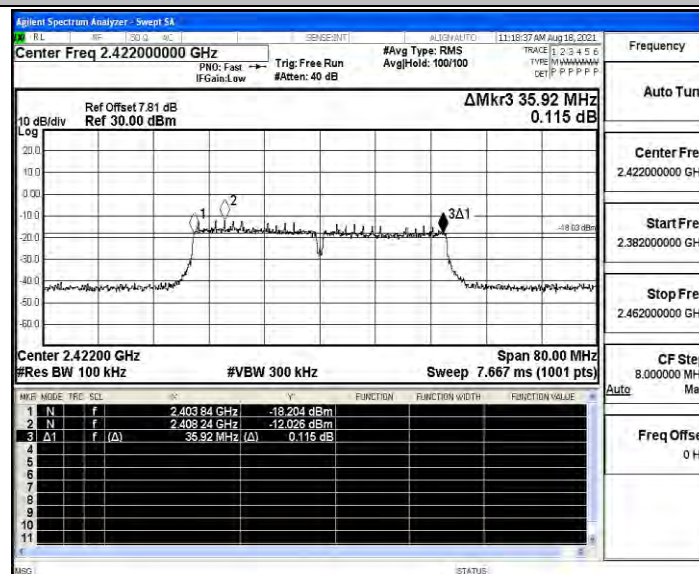
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

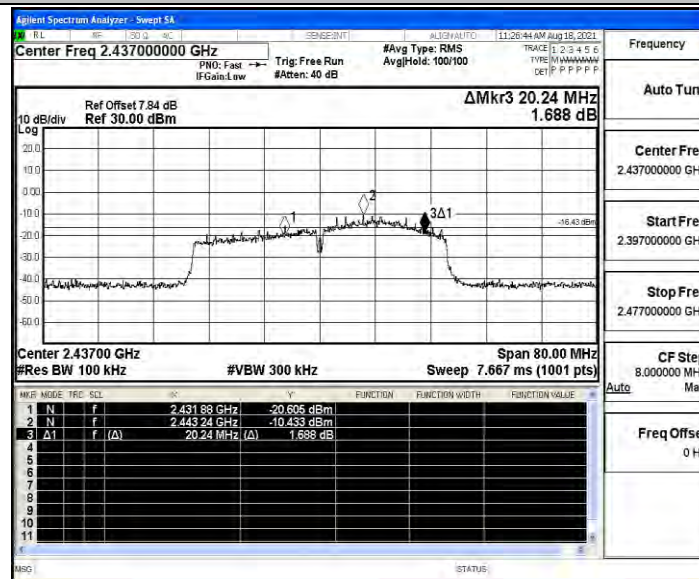


11N40SISO_Ant1_2422

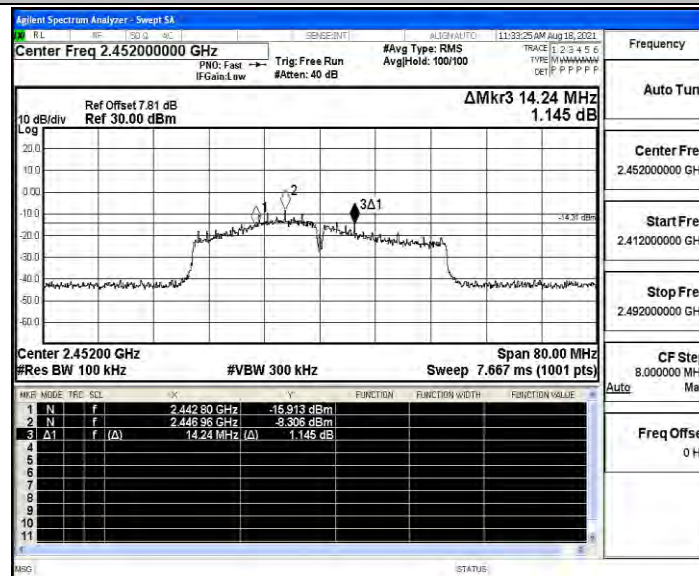




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	8.77	≤ 30	PASS
		2437	8.78	≤ 30	PASS
		2462	8.48	≤ 30	PASS
11G	Ant1	2412	8.49	≤ 30	PASS
		2437	8.72	≤ 30	PASS
		2462	8.03	≤ 30	PASS
11N20SISO	Ant1	2412	8.44	≤ 30	PASS
		2437	8.82	≤ 30	PASS
		2462	8.19	≤ 30	PASS
11N40SISO	Ant1	2422	8.47	≤ 30	PASS
		2437	8.68	≤ 30	PASS
		2452	8.39	≤ 30	PASS



C.3 Maximum power spectral density

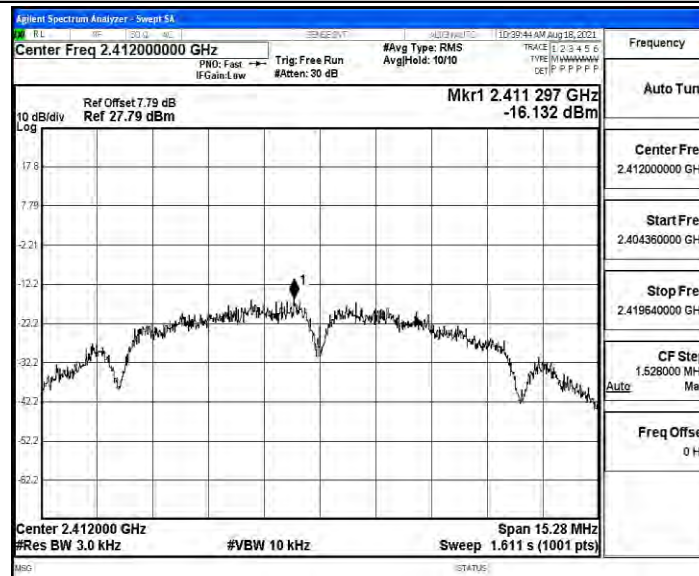
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.13	≤ 8	PASS
		2437	-15.79	≤ 8	PASS
		2462	-17.28	≤ 8	PASS
11G	Ant1	2412	-22.3	≤ 8	PASS
		2437	-21.83	≤ 8	PASS
		2462	-22.34	≤ 8	PASS
11N20SISO	Ant1	2412	-22.19	≤ 8	PASS
		2437	-21.98	≤ 8	PASS
		2462	-22.97	≤ 8	PASS
11N40SISO	Ant1	2422	-26.64	≤ 8	PASS
		2437	-22.15	≤ 8	PASS
		2452	-21.99	≤ 8	PASS

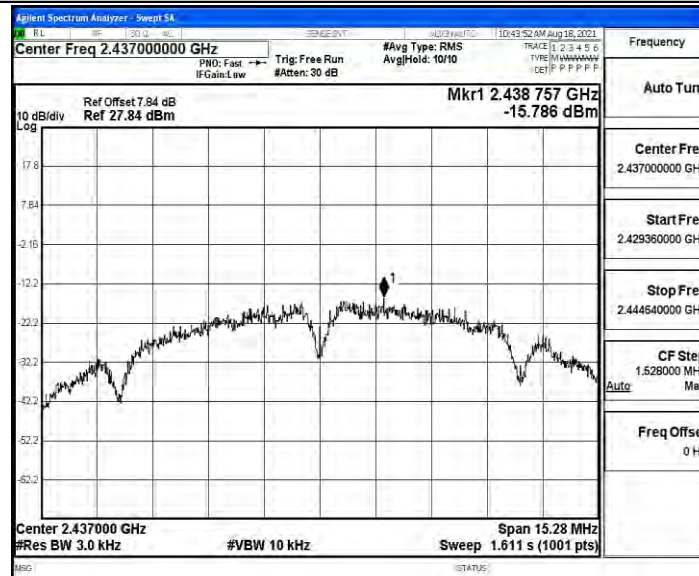


Test Graphs

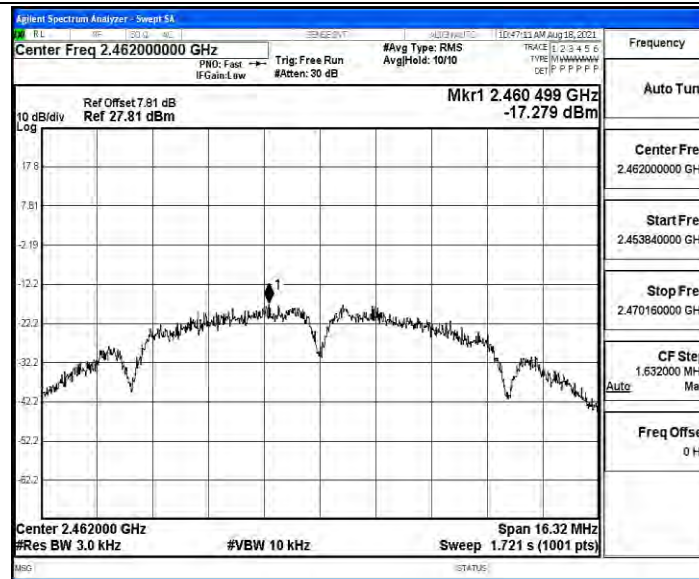
11B_Ant1_2412



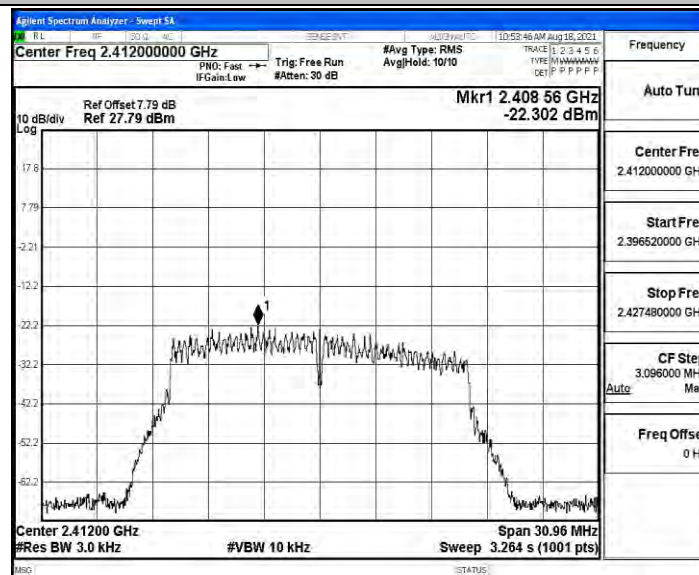
11B_Ant1_2437



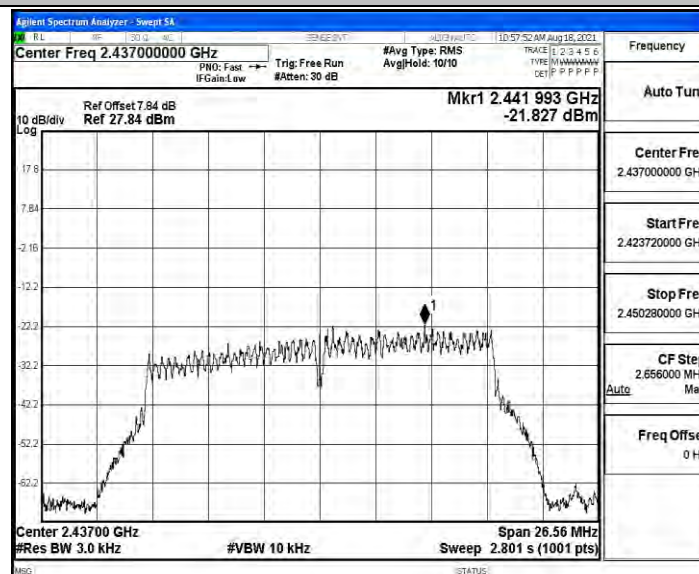
11B_Ant1_2462



11G_Ant1_2412

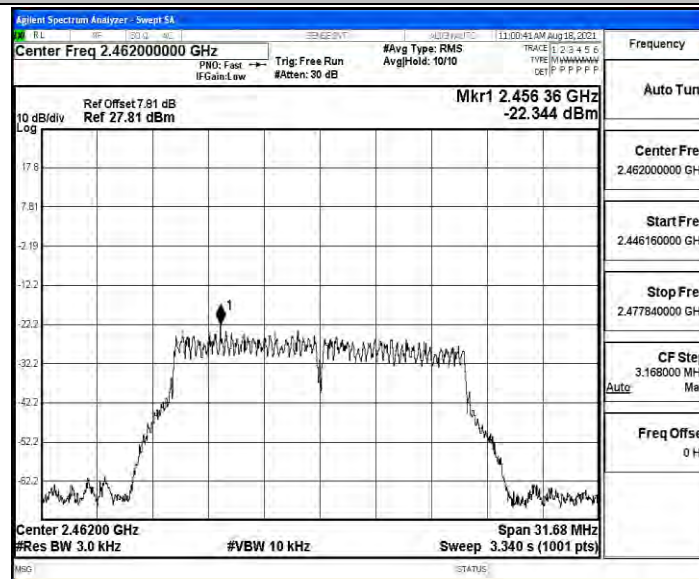


11G_Ant1_2437

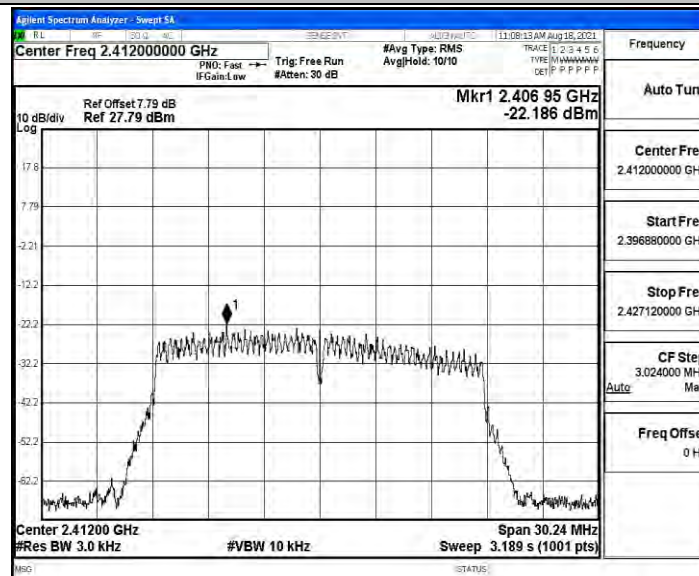




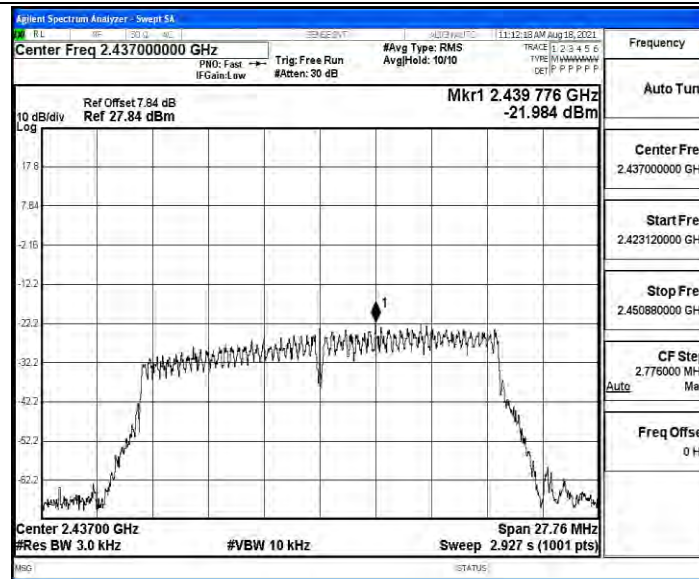
11G_Ant1_2462



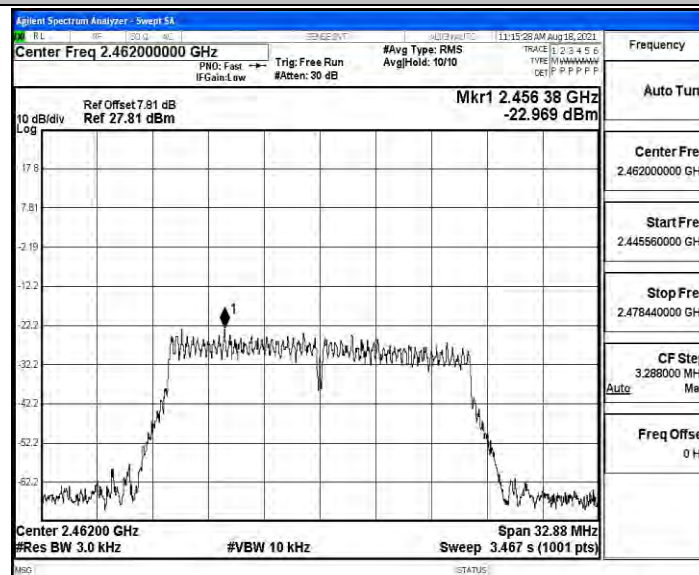
11N20SISO_Ant1_2412



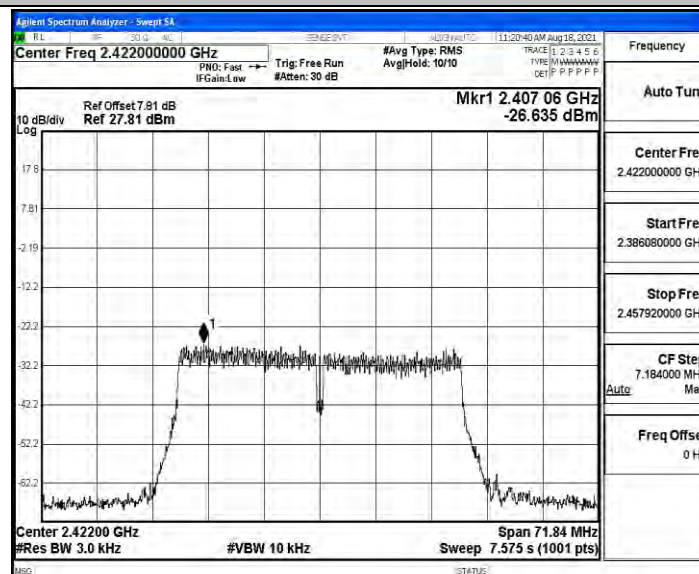
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

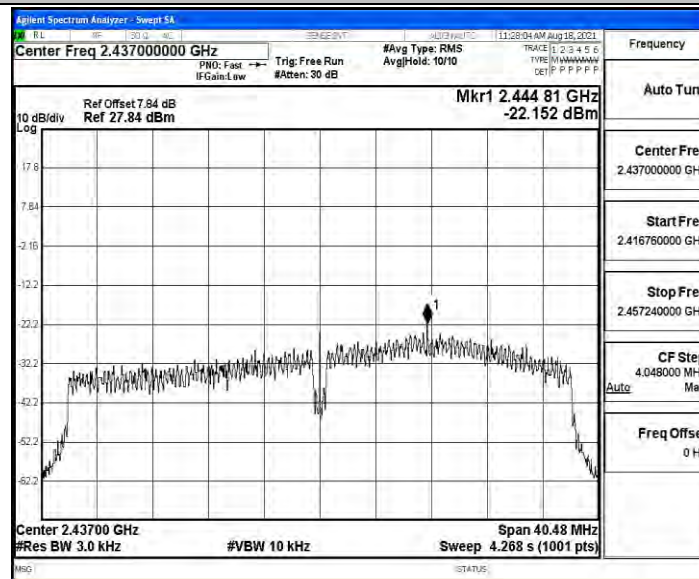


11N40SISO_Ant1_2422

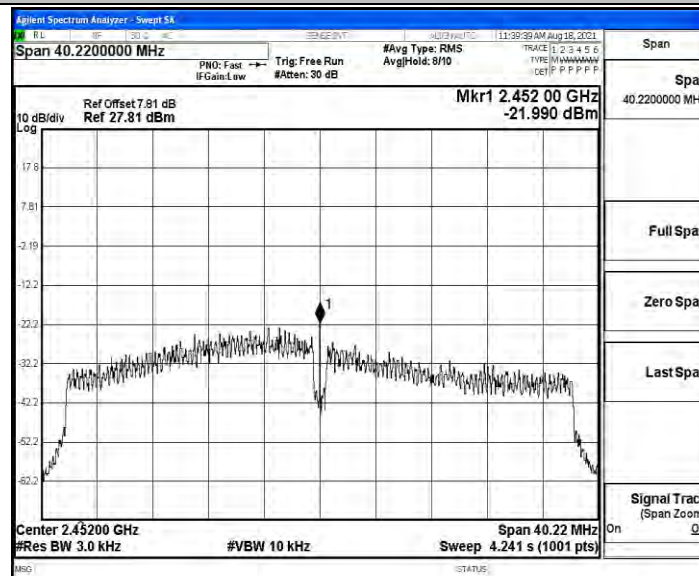




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





C.4 Band edge measurements

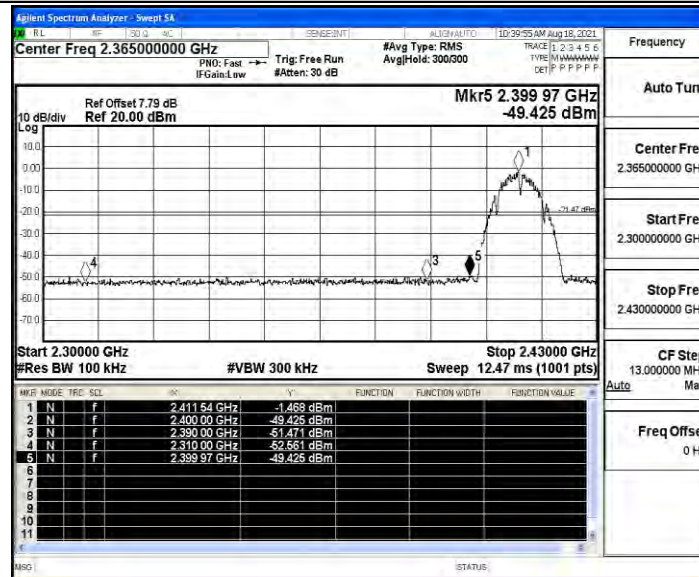
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-1.47	-49.43	≤ -21.47	PASS
		High	2462	-2.75	-49.01	≤ -22.75	PASS
11G	Ant1	Low	2412	-8.26	-49.58	≤ -28.26	PASS
		High	2462	-9.92	-49.12	≤ -29.92	PASS
11N20SISO	Ant1	Low	2412	-8.74	-48.63	≤ -28.74	PASS
		High	2462	-9.96	-48.98	≤ -29.96	PASS
11N40SISO	Ant1	Low	2422	-11.98	-47	≤ -31.98	PASS
		High	2452	-8.29	-48.77	≤ -28.29	PASS

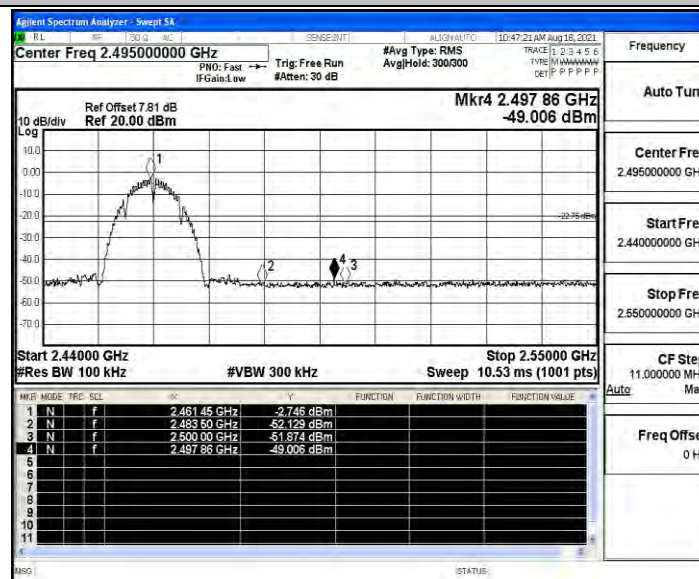


Test Graphs

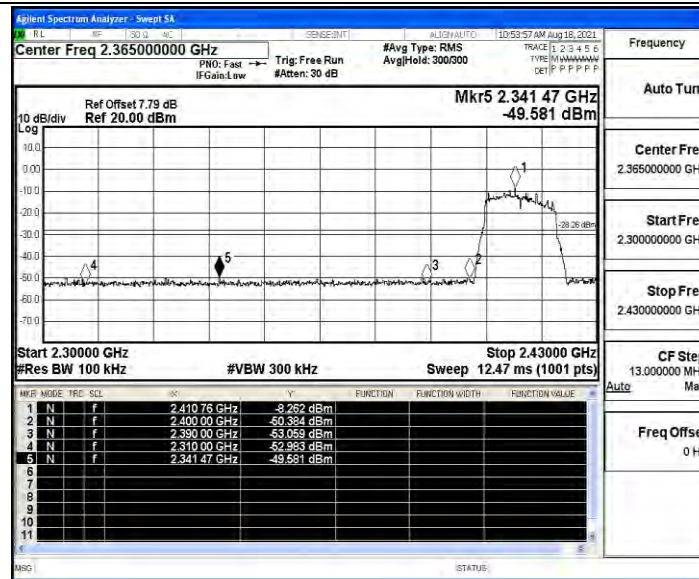
11B_Ant1_Low_2412



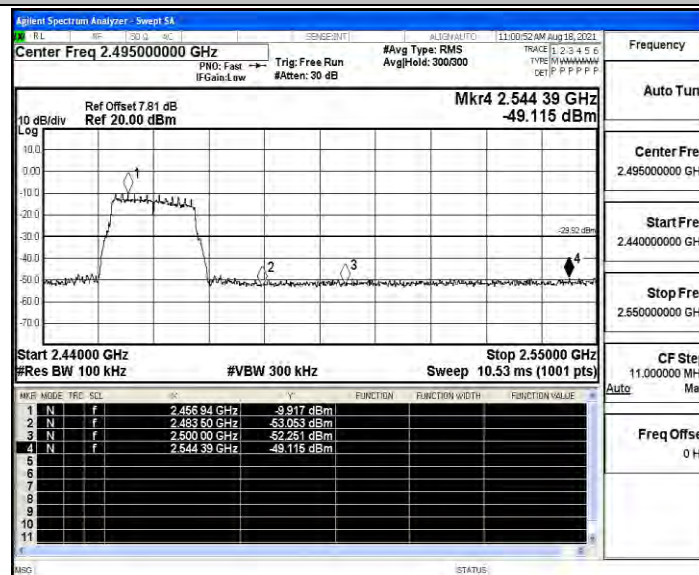
11B_Ant1_High_2462



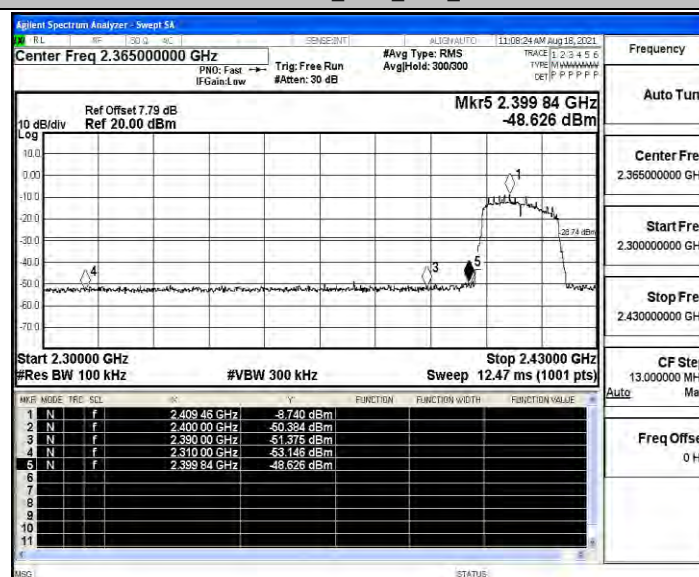
11G_Ant1_Low_2412



11G_Ant1_High_2462

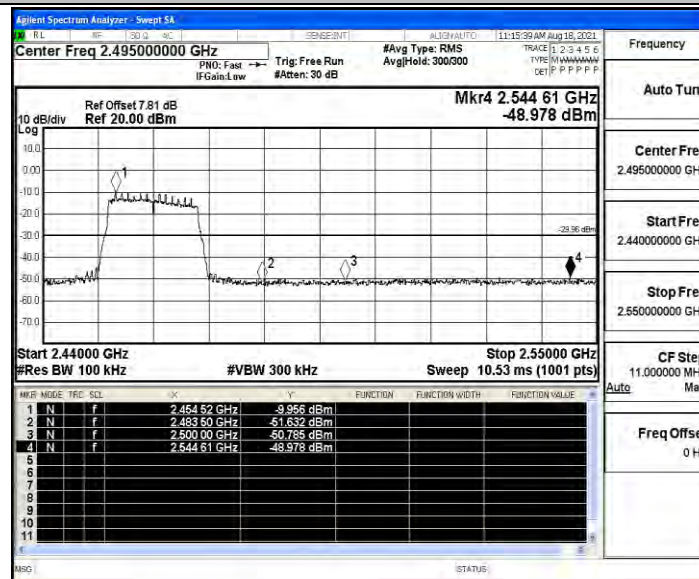


11N20SISO_Ant1_Low_2412

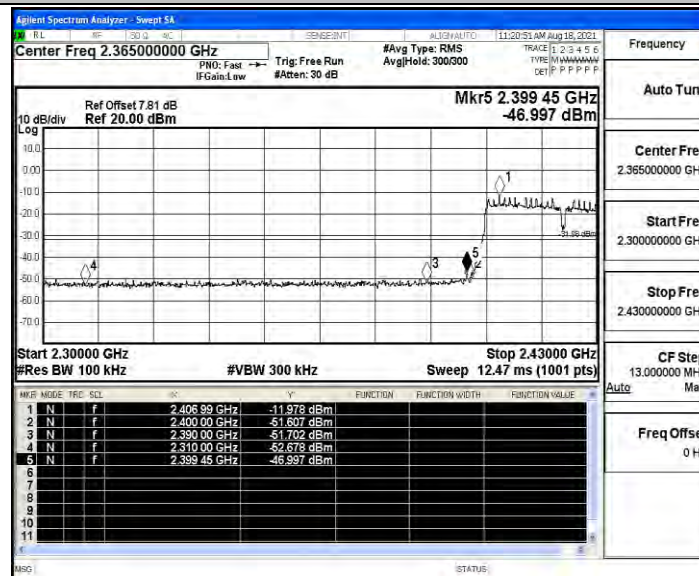




11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



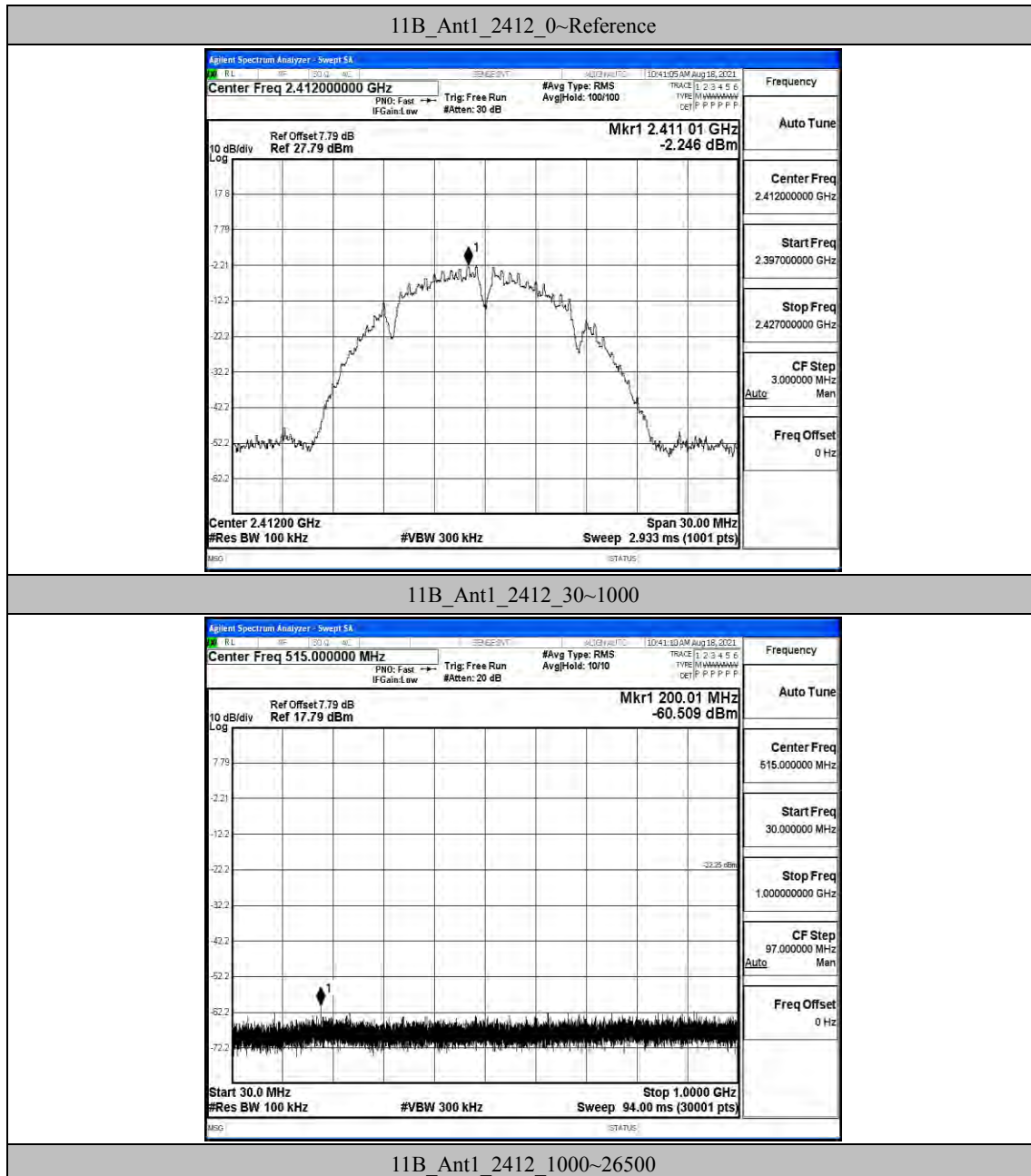
C.5 Conducted Spurious Emission

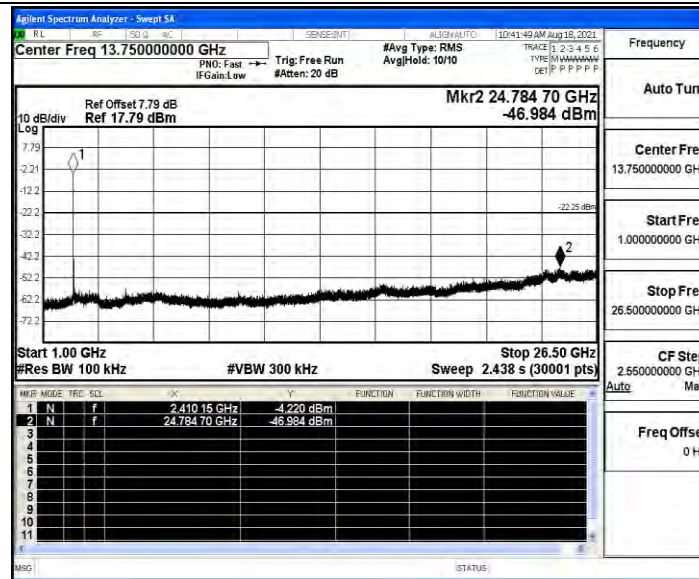
Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-60.51	≤ -22.25	PASS
			1000~26500	-2.25	-46.98	≤ -22.25	PASS
		2437	Reference	-2.63	-2.63	---	PASS
			30~1000	-2.63	-58.93	≤ -22.63	PASS
			1000~26500	-2.63	-46.73	≤ -22.63	PASS
		2462	Reference	-2.73	-2.73	---	PASS
			30~1000	-2.73	-56.85	≤ -22.73	PASS
			1000~26500	-2.73	-47.16	≤ -22.73	PASS
11G	Ant1	2412	Reference	-9.79	-9.79	---	PASS
			30~1000	-9.79	-56.08	≤ -29.79	PASS
			1000~26500	-9.79	-48	≤ -29.79	PASS
		2437	Reference	-8.56	-8.56	---	PASS
			30~1000	-8.56	-56.52	≤ -28.56	PASS
			1000~26500	-8.56	-46.87	≤ -28.56	PASS
		2462	Reference	-9.54	-9.54	---	PASS
			30~1000	-9.54	-56.7	≤ -29.54	PASS
			1000~26500	-9.54	-47.62	≤ -29.54	PASS
11N20SISO	Ant1	2412	Reference	-8.79	-8.79	---	PASS
			30~1000	-8.79	-57.48	≤ -28.79	PASS
			1000~26500	-8.79	-47.75	≤ -28.79	PASS
		2437	Reference	-7.60	-7.60	---	PASS
			30~1000	-7.60	-57.6	≤ -27.6	PASS
			1000~26500	-7.60	-47.67	≤ -27.6	PASS
		2462	Reference	-9.77	-9.77	---	PASS
			30~1000	-9.77	-56.28	≤ -29.77	PASS
			1000~26500	-9.77	-47.17	≤ -29.77	PASS
11N40SISO	Ant1	2422	Reference	-12.39	-12.39	---	PASS
			30~1000	-12.39	-58.19	≤ -32.39	PASS
			1000~26500	-12.39	-47.65	≤ -32.39	PASS
		2437	Reference	-9.30	-9.30	---	PASS
			30~1000	-9.30	-57.63	≤ -29.3	PASS
			1000~26500	-9.30	-46.95	≤ -29.3	PASS
		2452	Reference	-8.37	-8.37	---	PASS
			30~1000	-8.37	-56.95	≤ -28.37	PASS
			1000~26500	-8.37	-47.3	≤ -28.37	PASS

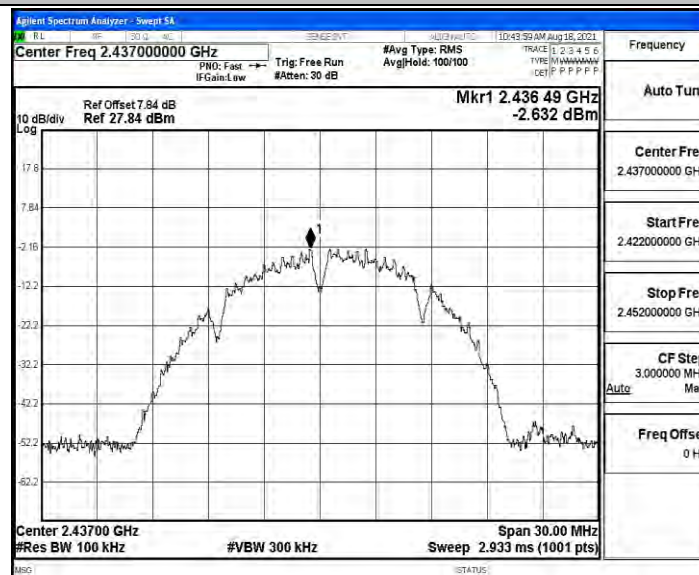


Test Graphs

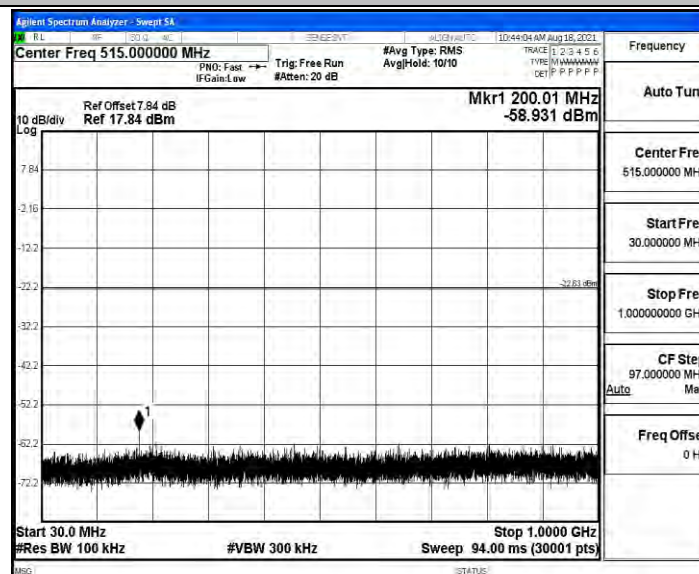




11B_Ant1_2437_0~Reference

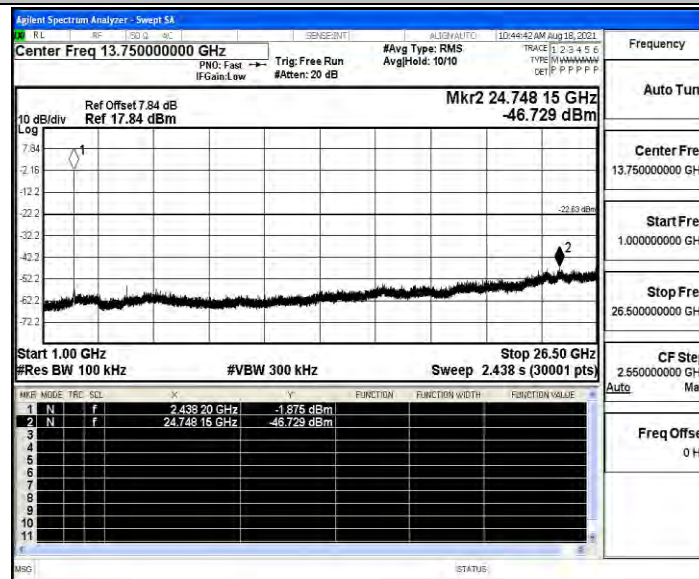


11B_Ant1_2437_30~1000

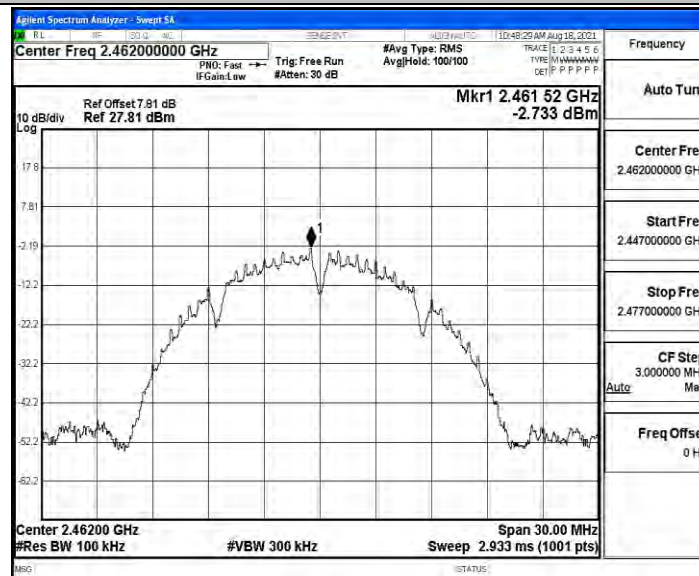




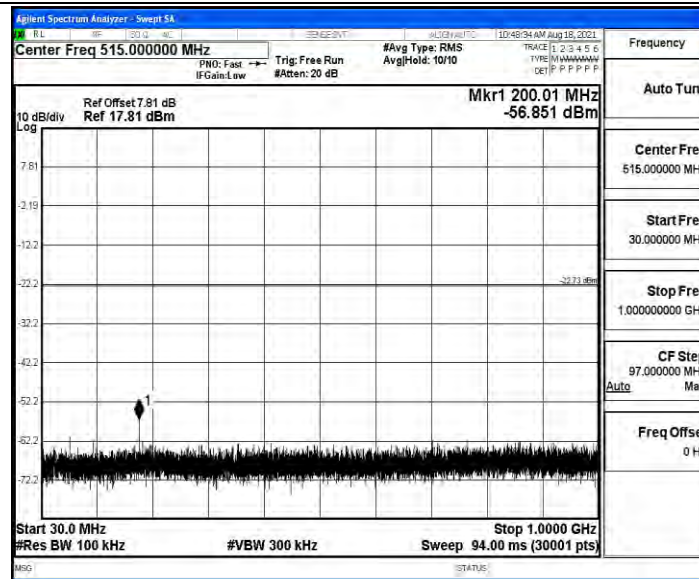
11B_Ant1_2437_1000~26500



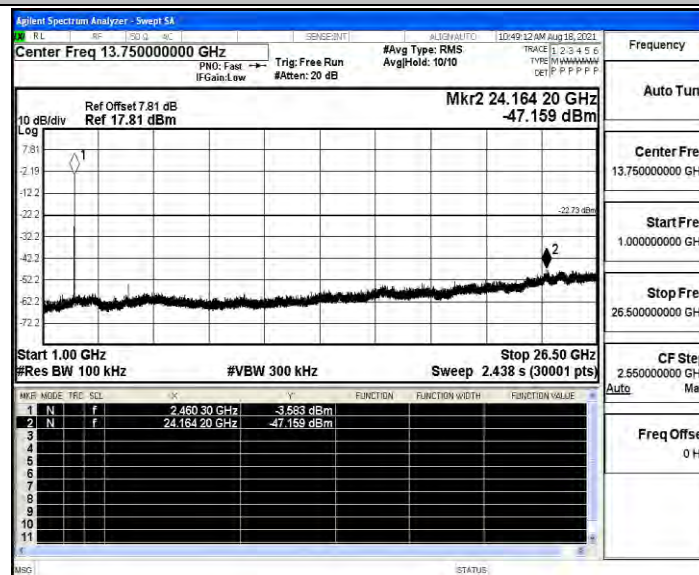
11B_Ant1_2462_0~Reference



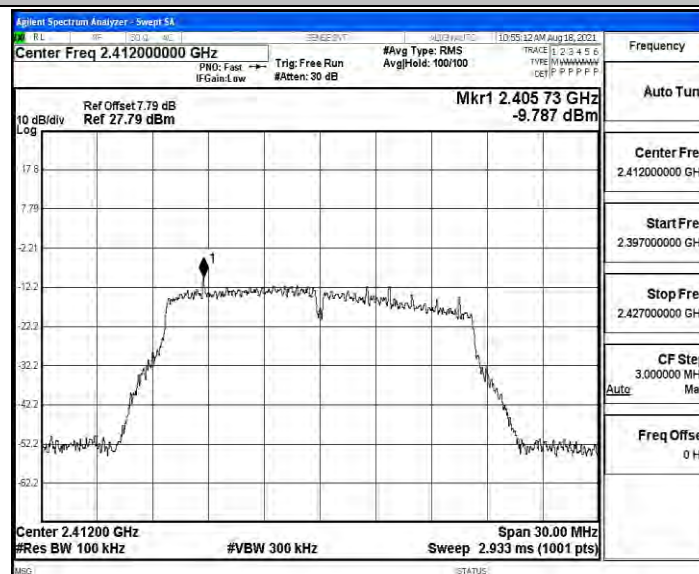
11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

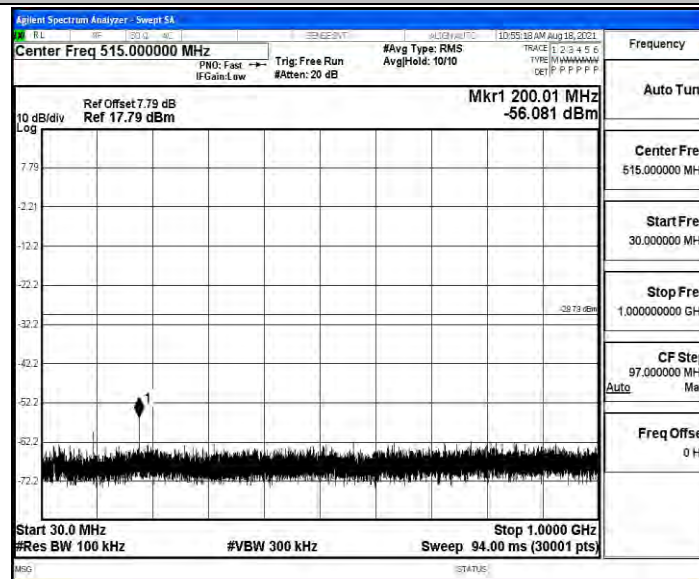


11G_Ant1_2412_0~Reference

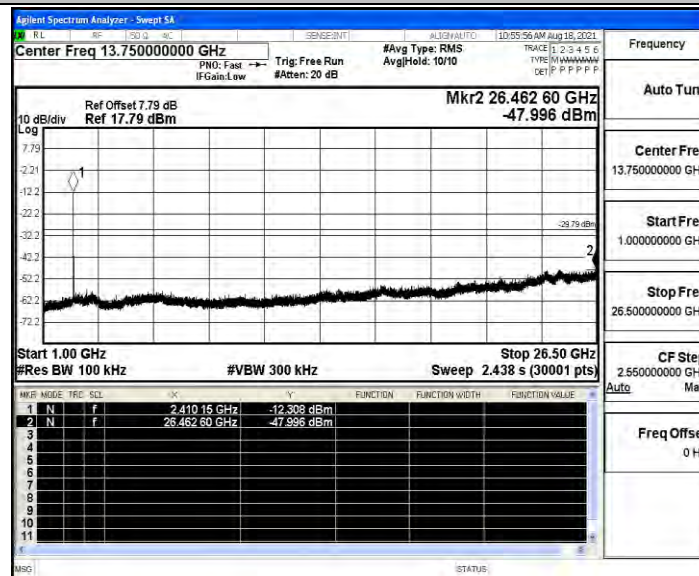




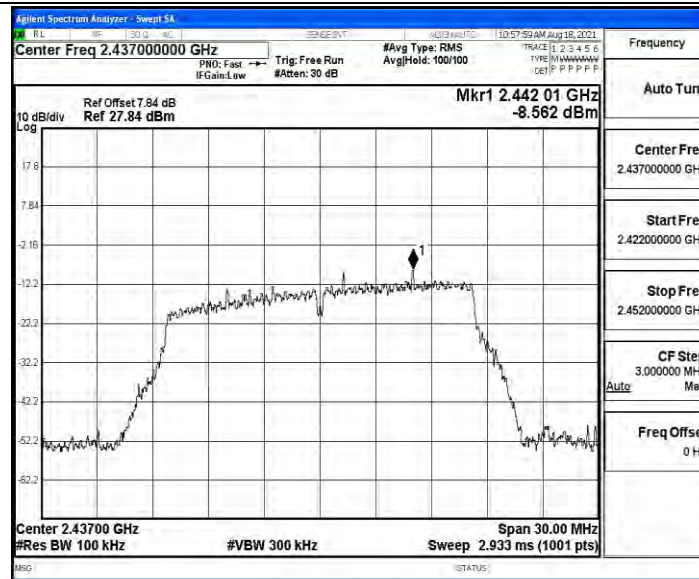
11G_Ant1_2412_30~1000



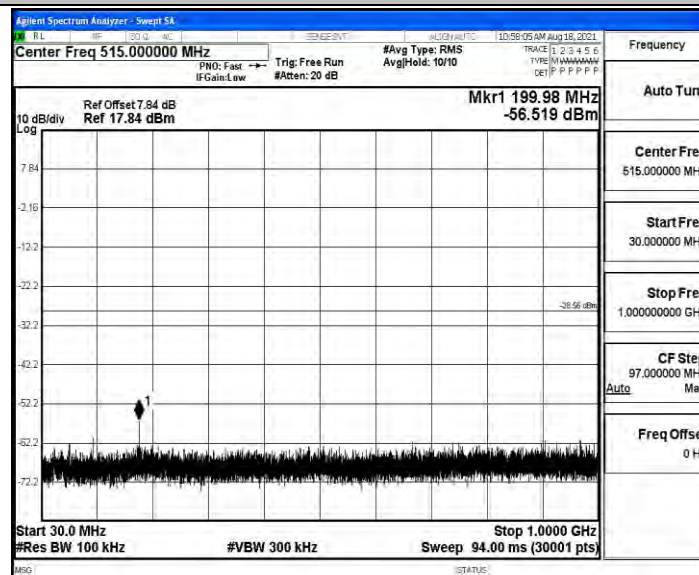
11G_Ant1_2412_1000~26500



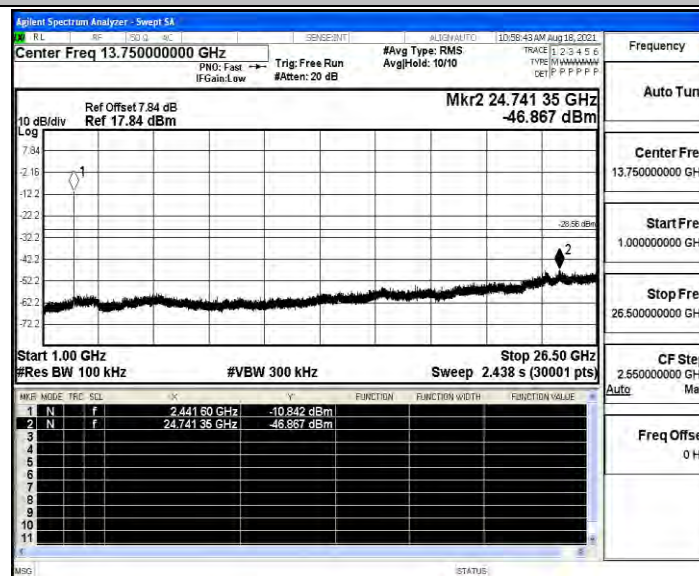
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000

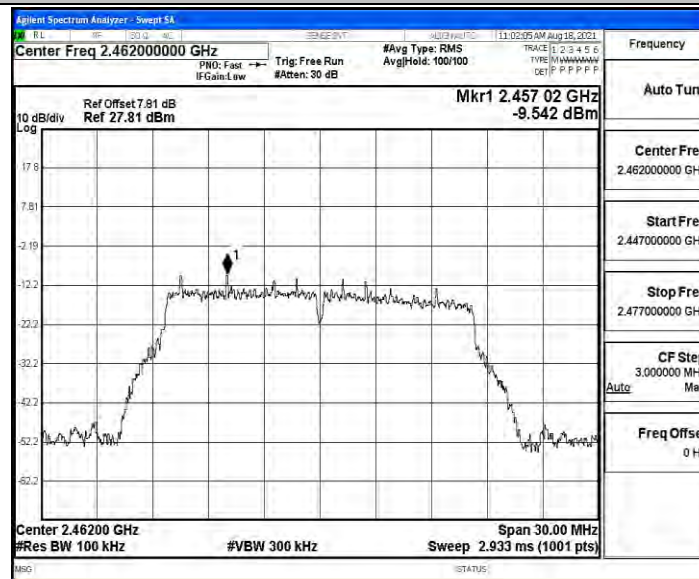


11G_Ant1_2437_1000~26500

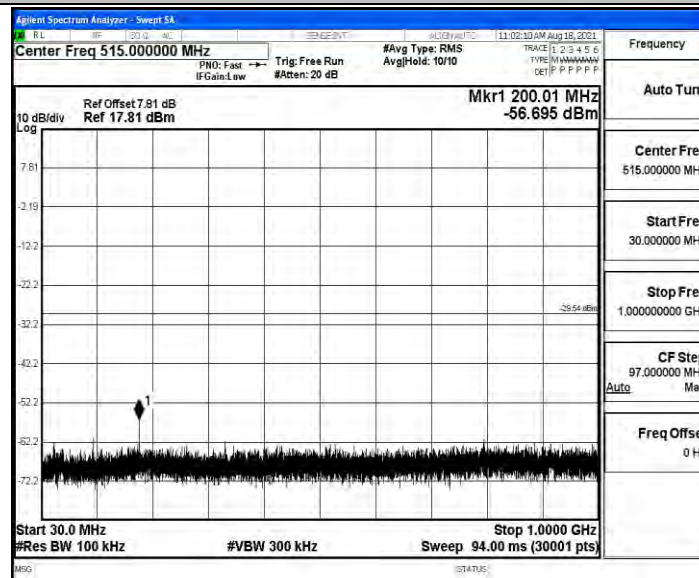




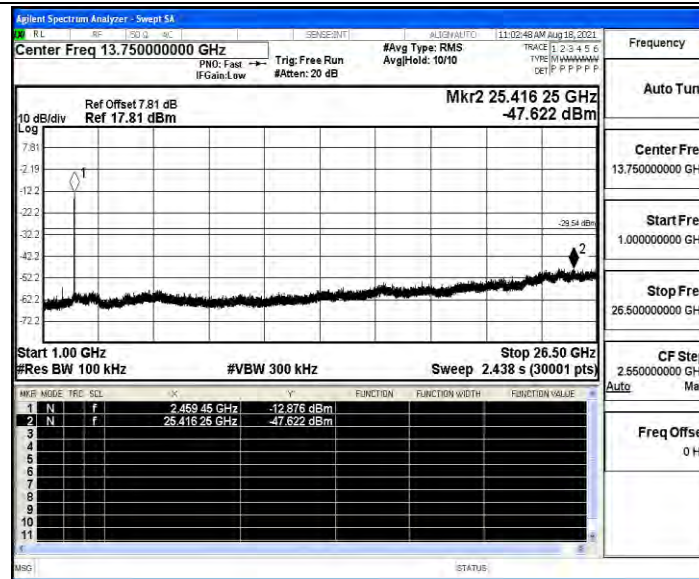
11G_Ant1_2462_0~Reference



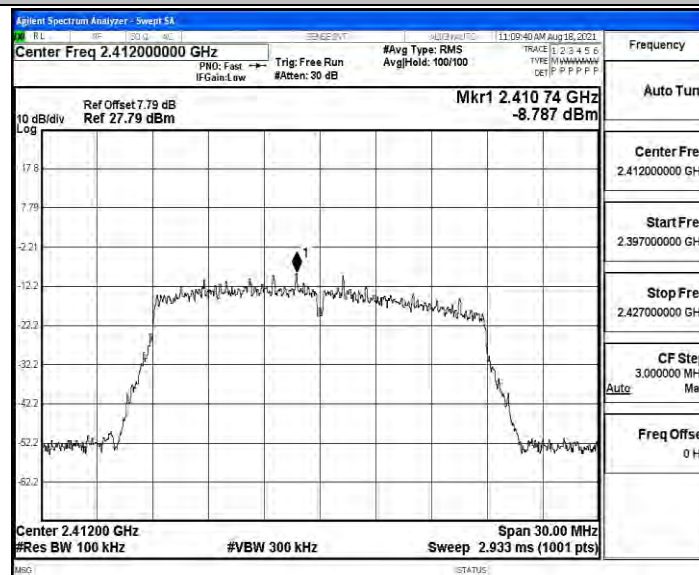
11G_Ant1_2462_30~1000



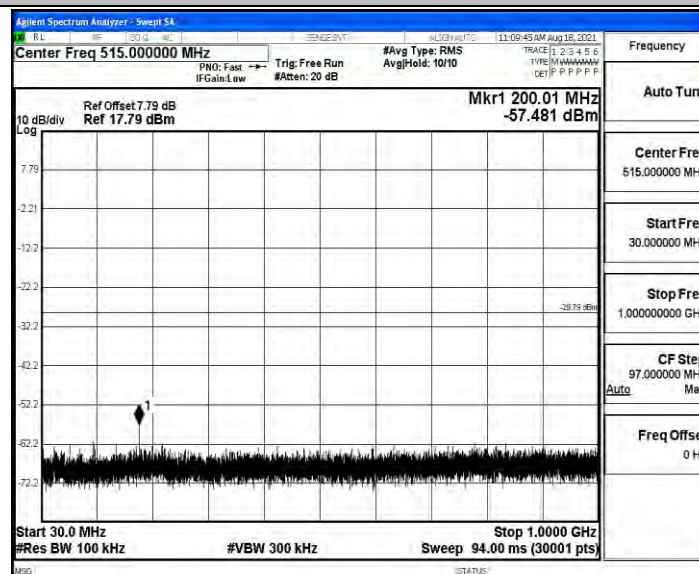
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0-Reference

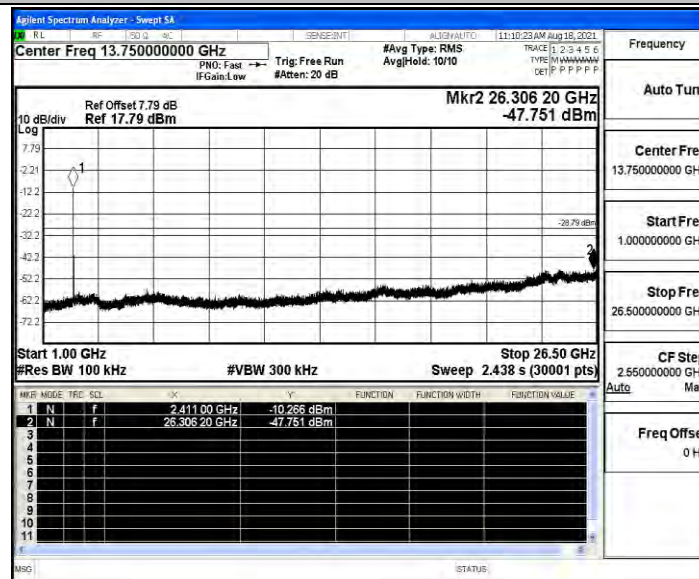


11N20SISO_Ant1_2412_30~1000

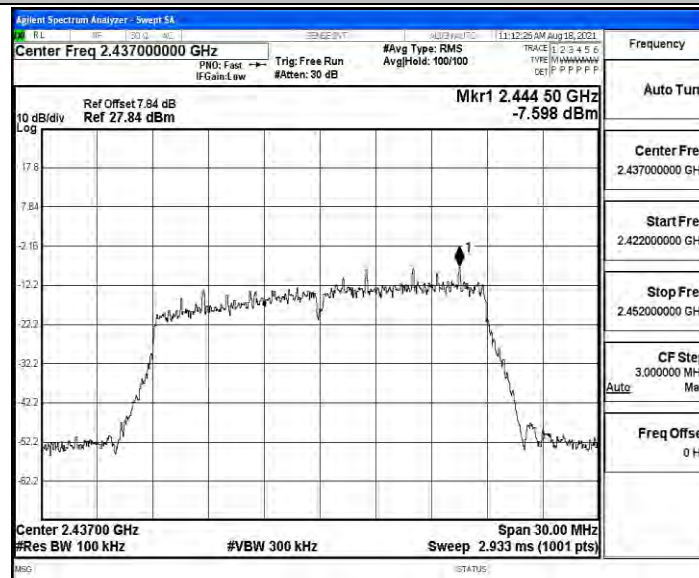




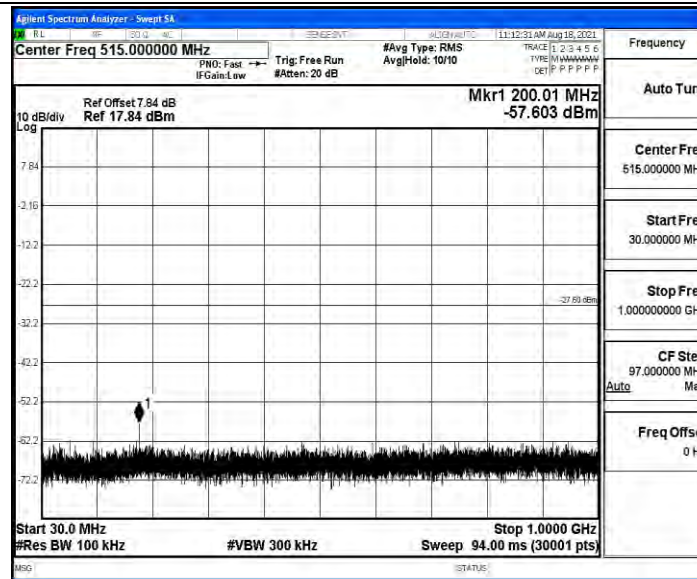
11N20SISO_Ant1_2412_1000~26500



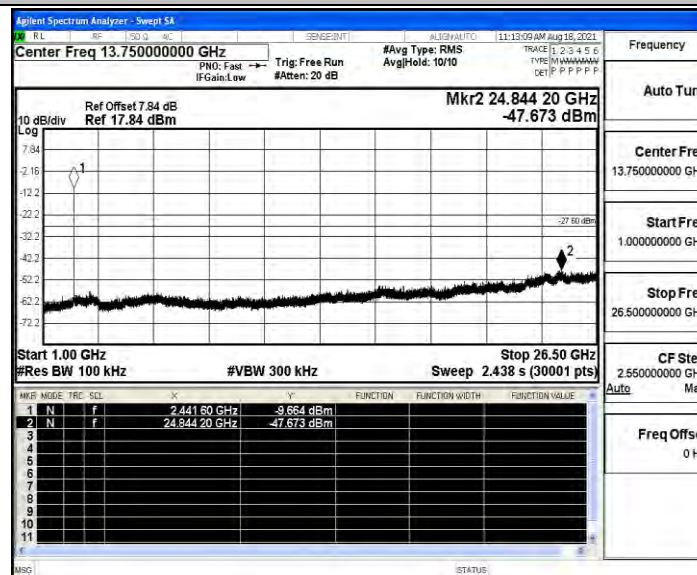
11N20SISO_Ant1_2437_0~Reference



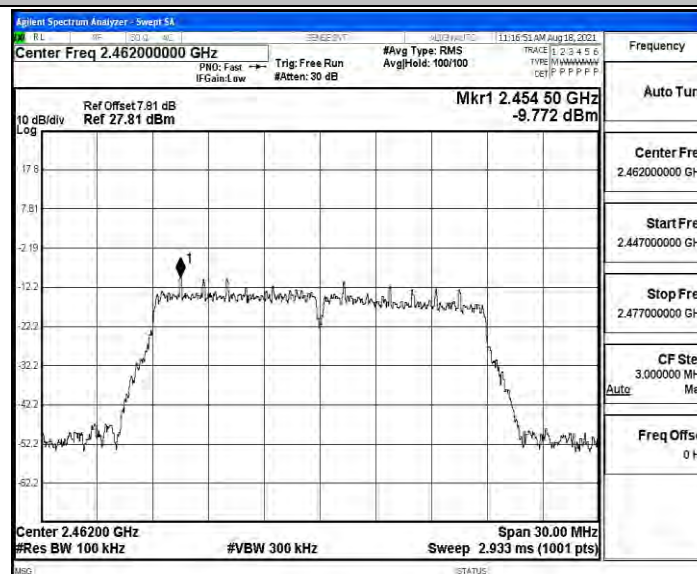
11N20SISO_Ant1_2437_30~1000



11N20SISO_Ant1_2437_1000~26500

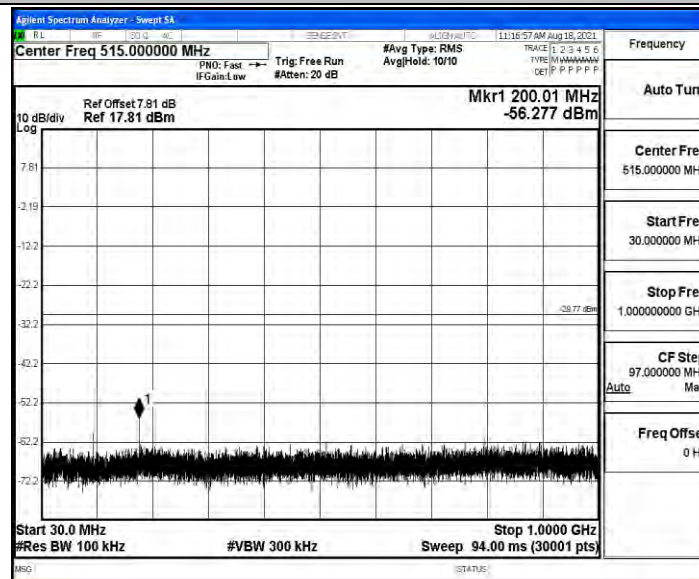


11N20SISO_Ant1_2462_0~Reference

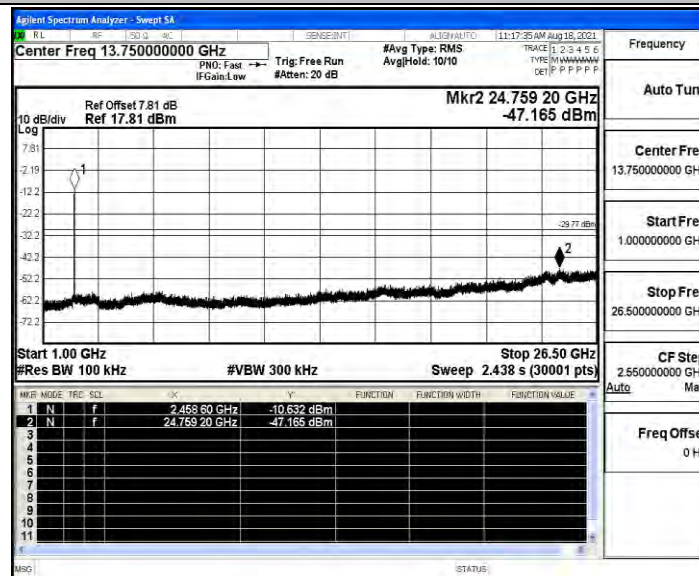




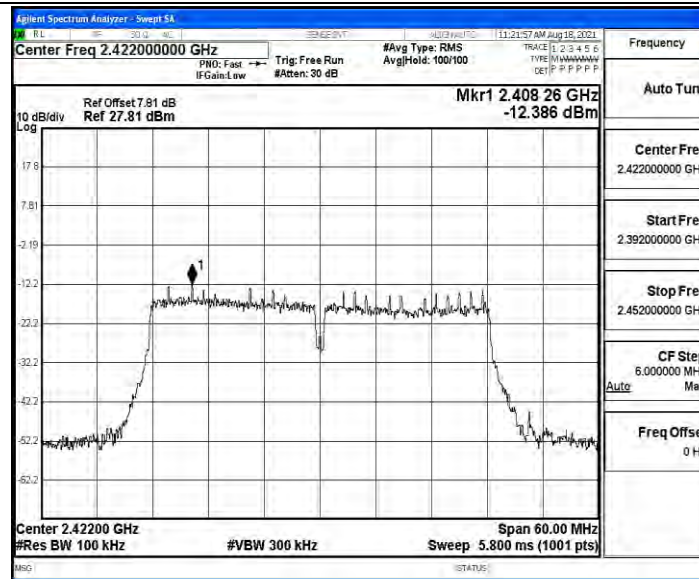
11N20SISO_Ant1_2462_30~1000



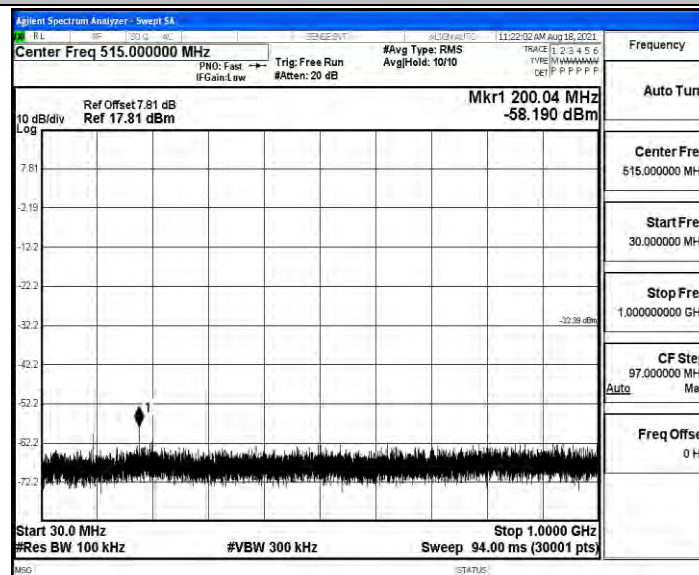
11N20SISO_Ant1_2462_1000~26500



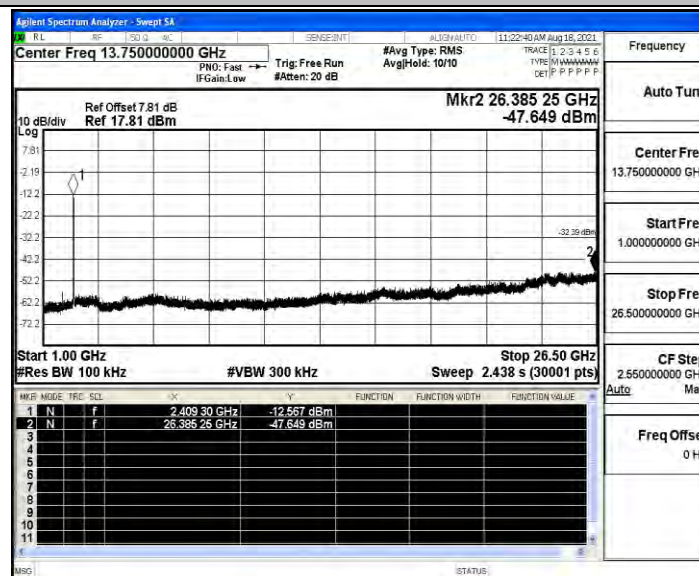
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000

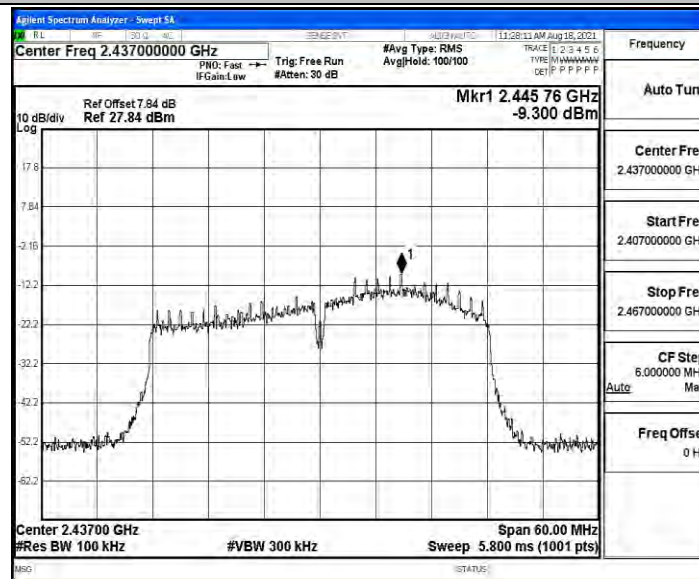


11N40SISO_Ant1_2422_1000~26500

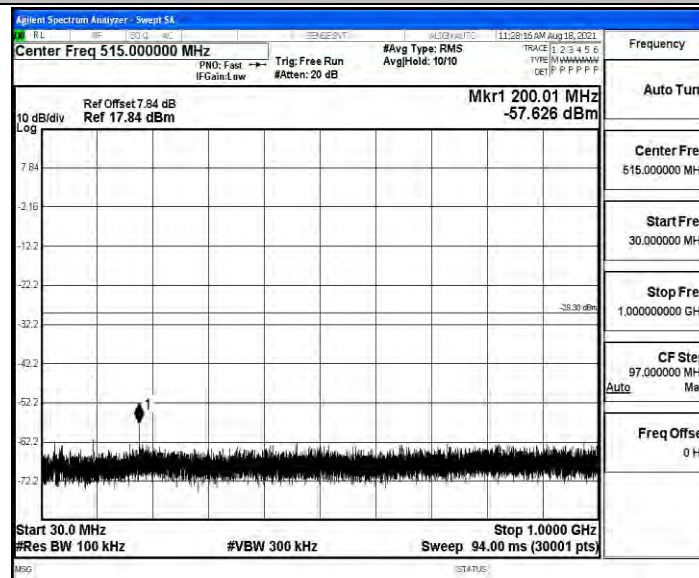




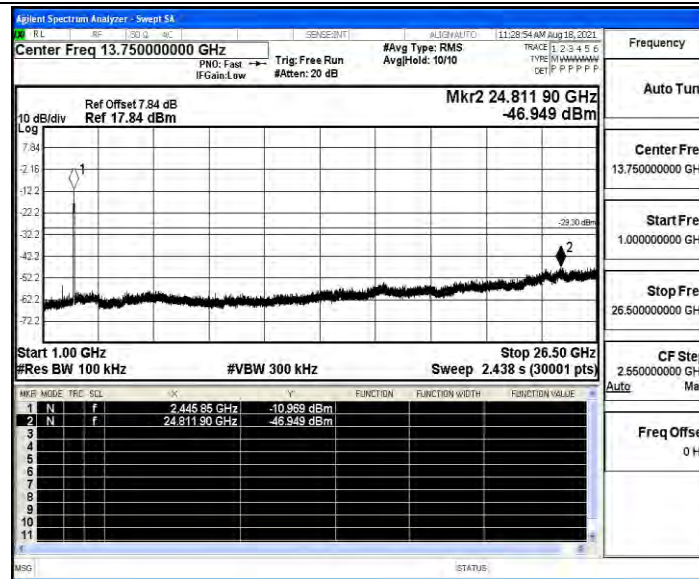
11N40SISO_Ant1_2437_0~Reference



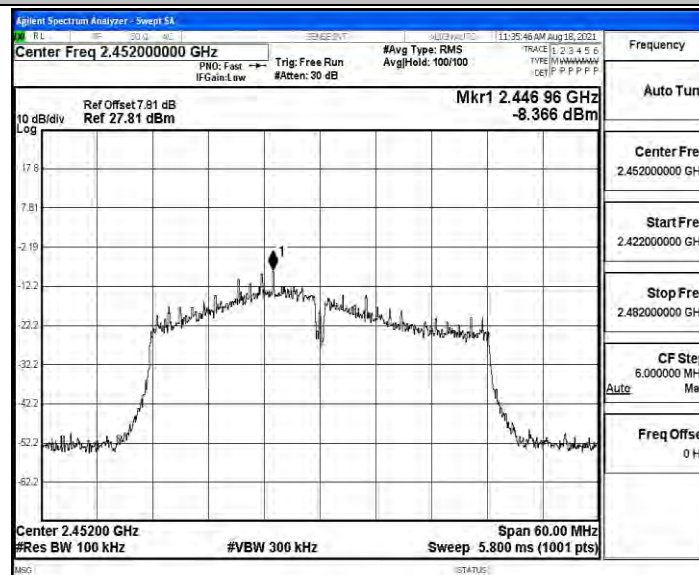
11N40SISO_Ant1_2437_30~1000



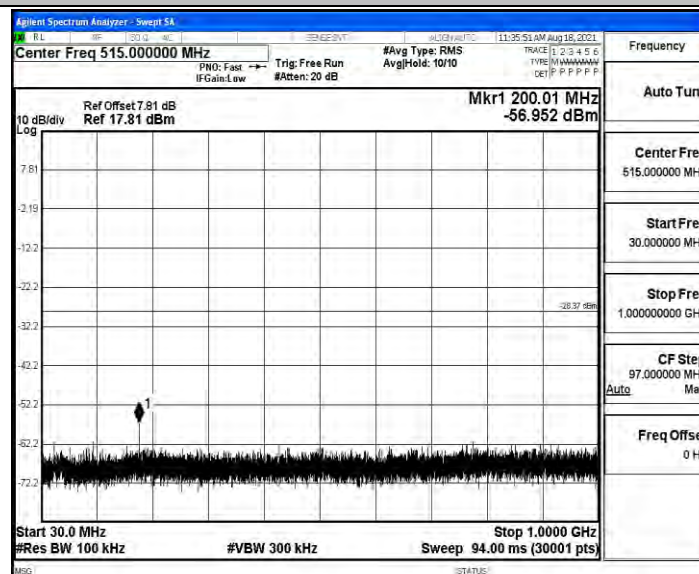
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference

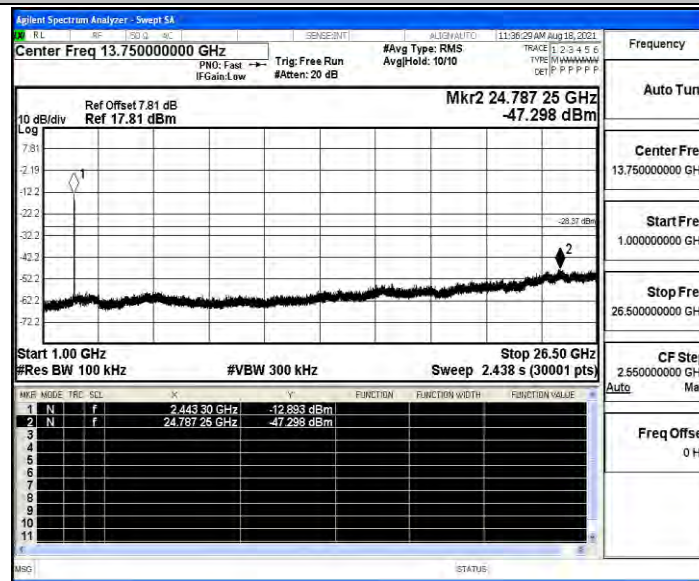


11N40SISO_Ant1_2452_30~1000





11N40SISO_Ant1_2452_1000~26500





C.6 Duty Cycle

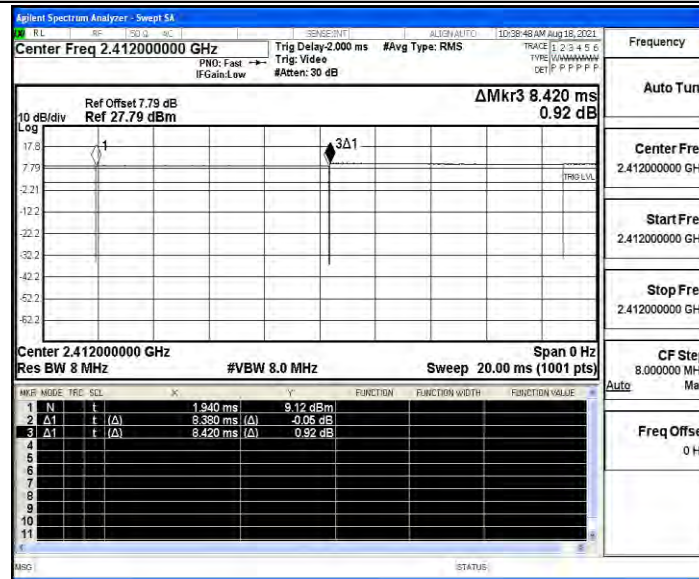
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.38	8.42	99.52	---	PASS
		2437	8.38	8.42	99.52	---	PASS
		2462	8.38	8.42	99.52	---	PASS
11G	Ant1	2412	1.39	1.44	96.53	---	PASS
		2437	1.39	1.44	96.53	---	PASS
		2462	1.39	1.44	96.53	---	PASS
11N20SISO	Ant1	2412	1.30	1.35	96.30	---	PASS
		2437	1.30	1.35	96.30	---	PASS
		2462	1.30	1.35	96.30	---	PASS
11N40SISO	Ant1	2422	0.64	0.69	92.75	---	PASS
		2437	0.64	0.69	92.75	---	PASS
		2452	0.64	0.69	92.75	---	PASS

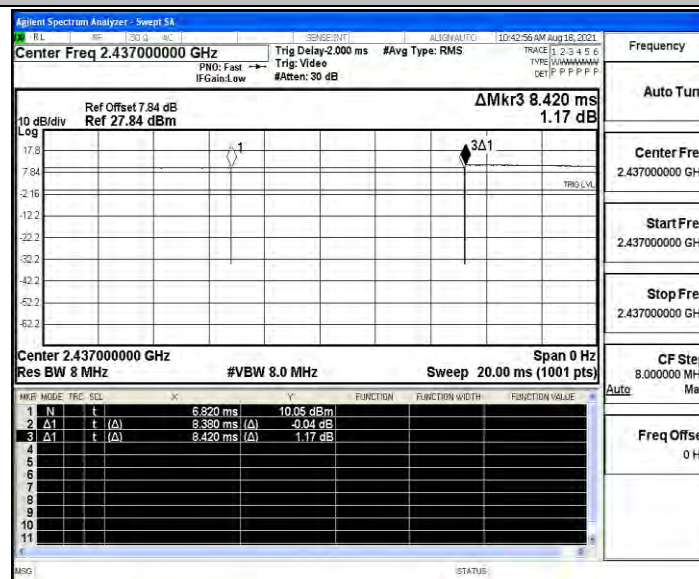


Test Graphs

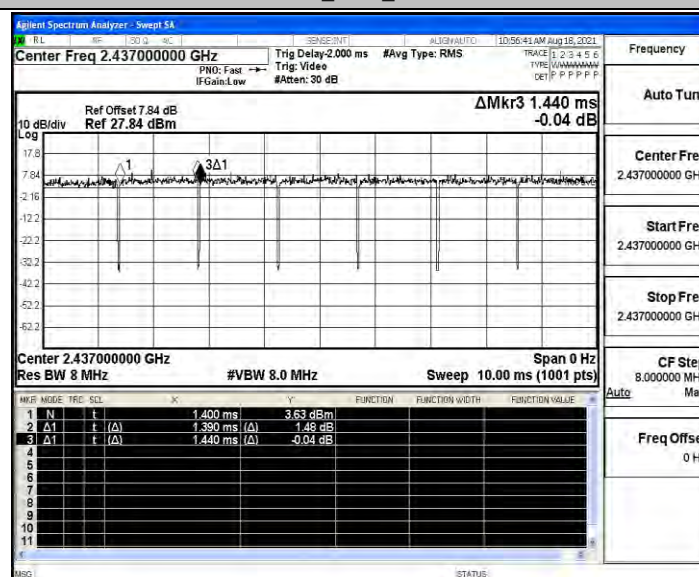
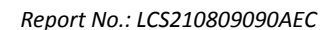
11B_Ant1_2412



11B_Ant1_2437

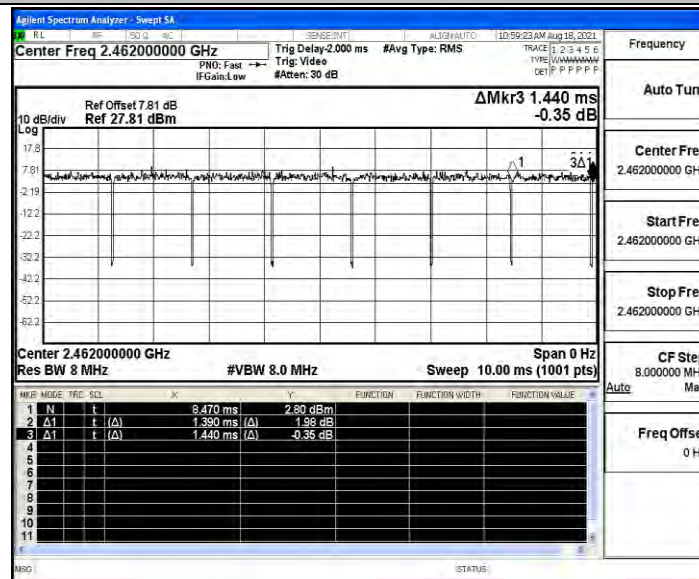


11B_Ant1_2462

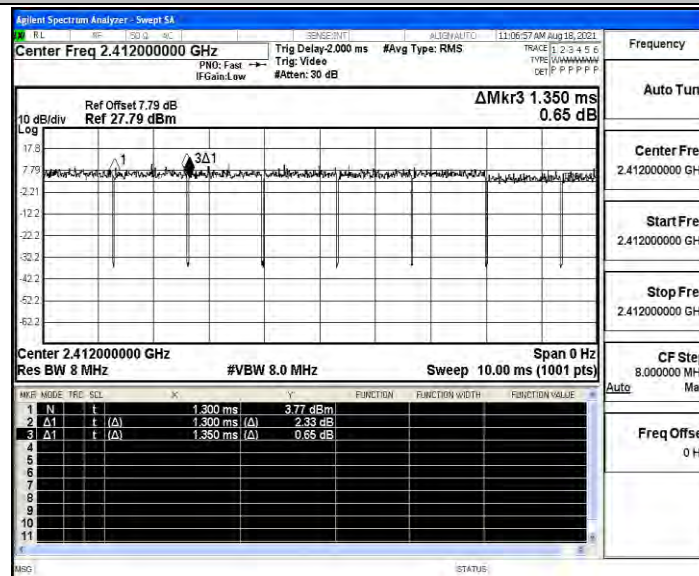




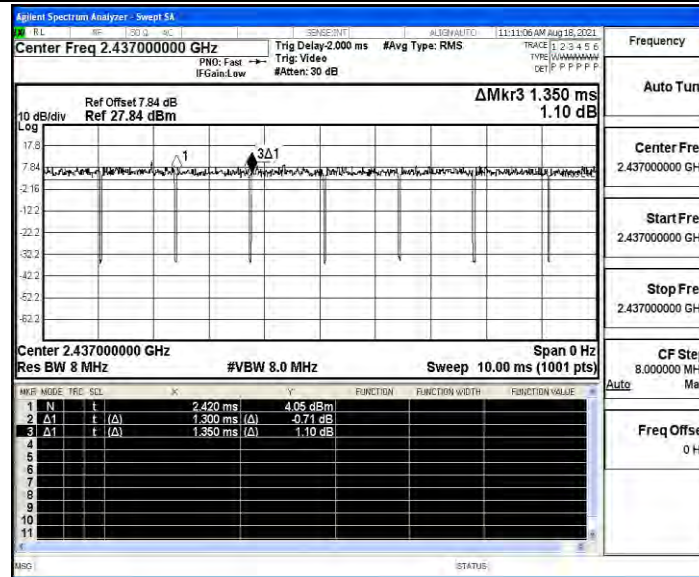
11G_Ant1_2462



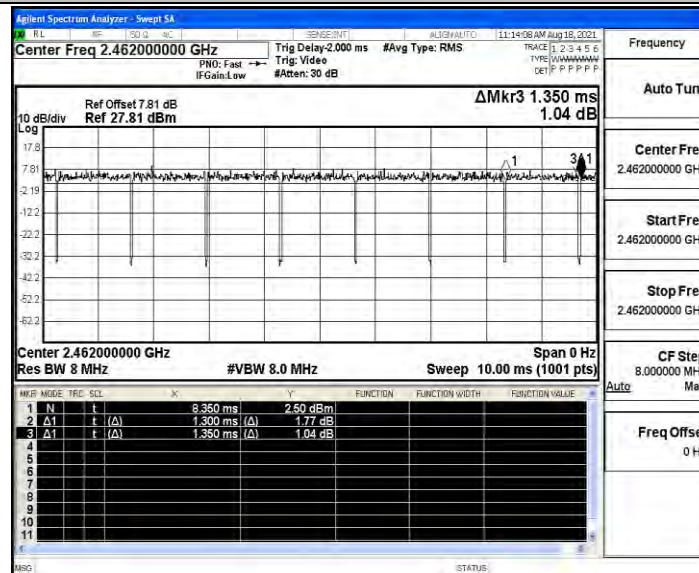
11N20SISO_Ant1_2412



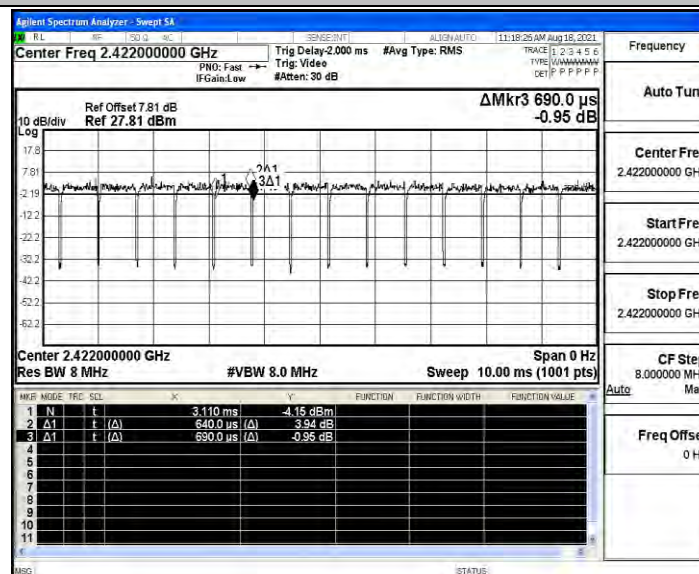
11N20SISO_Ant1_2437

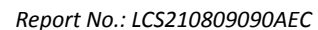


11N20SISO_Ant1_2462



11N40SISO_Ant1_2422





Agilent Spectrum Analyzer - Sweep SA

Center Freq 2.437000000 GHz

Trig Delay: 2.000 ms

#Avg Type: RMS

Trace 1 2 3 4 5 6

TYPE: (AAAAAA) DET: P P P P P

PNO: Fast IF Gain: Low

#Atten: 30 dB

Frequency

Auto Tun

Center Freq 2.437000000 GHz

Start Freq 2.437000000 GHz

Stop Freq 2.437000000 GHz

CF Stop 8.000000 MHz

Auto

Freq Offset 0 Hz

Ref Offset 7.84 dB

Ref 27.84 dBm

Δ Mkr3 690.0 dB

-1.26 dB

10 dB/div

Log

17.0

7.84

-1.6

-12.2

-22.2

-32.2

-42.2

-52.2

-62.2

2A1

3A1

Center 2.437000000 GHz

Res BW 8 MHz

#VBW 8.0 MHz

Span 0 Hz

Sweep 10.00 ms (1001 pts)

MUR	MERGE	TRIG	SCD	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	t		1.050 ms	-1.72 dBm			
2	A1	t	(A)	640.0 μ s (A)	4.45 dB			
3	A1	t	(A)	690.0 μ s (A)	-1.26 dB			
4								
5								
6								
7								
8								
9								
10								
11								

Agilent Spectrum Analyzer - Sweep SA

IF BW: 100 kHz, SENSE: 10 dB, ALIGN: AUTO, 11/33: 14 AM Aug 18, 2021

Center Freq 2.452000000 GHz Trig Delay: 2.000 ms #Avg Type: RMS
 PNO: Fast IF Gain: Low Trig: Video #Atten: 30 dB

Ref Offset 7.81 dB Δ Mkr3 690.0 dB
 Ref 27.81 dBm 0.40 dB

10 dB/div Log

Center Freq 2.452000000 GHz Span 0 Hz
 Res BW 8 MHz #VBW 8.0 MHz Sweep 10.00 ms (1001 pts)

MARK	MEAS	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	t		9.200 ms	-3.23 dBm			
2	Δ 1	t	(A)	640.0 μ s (A)	4.15 dB			
3	Δ 1	t	(A)	690.0 μ s (A)	0.40 dB			
4								
5								
6								
7								
8								
9								
10								
11								

Auto

Frequency Auto Tun

Center Freq 2.452000000 GHz

Start Freq 2.452000000 GHz

Stop Freq 2.452000000 GHz

CF Ste 8.000000 MHz

Freq Offset 0 Hz



C.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.36	≤-41.20	45.84	≤54	PASS
				AV	2389.830	-48.84	≤-41.20	46.36	≤54	PASS
				AV	2390.000	-48.88	≤-41.20	46.32	≤54	PASS
				Peak	2310.000	-44.93	≤-21.20	50.27	≤74	PASS
				Peak	2342.120	-40.18	≤-21.20	55.02	≤74	PASS
				Peak	2390.000	-42.3	≤-21.20	52.90	≤74	PASS
		High	2462	AV	2483.500	-48.5	≤-41.20	46.70	≤54	PASS
				AV	2498.410	-48.24	≤-41.20	46.96	≤54	PASS
				AV	2500.000	-48.42	≤-41.20	46.78	≤54	PASS
				Peak	2483.500	-44.36	≤-21.20	50.84	≤74	PASS
				Peak	2495.220	-39.36	≤-21.20	55.84	≤74	PASS
				Peak	2500.000	-42.6	≤-21.20	52.60	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-48.72	≤-41.20	46.48	≤54	PASS
				AV	2388.920	-48.31	≤-41.20	46.89	≤54	PASS
				AV	2390.000	-48.46	≤-41.20	46.74	≤54	PASS
				Peak	2310.000	-41.35	≤-21.20	53.85	≤74	PASS
				Peak	2316.120	-38.89	≤-21.20	56.31	≤74	PASS
				Peak	2390.000	-40.72	≤-21.20	54.48	≤74	PASS
		High	2462	AV	2483.500	-48.03	≤-41.20	47.17	≤54	PASS
				AV	2498.740	-47.72	≤-41.20	47.48	≤54	PASS
				AV	2500.000	-48.02	≤-41.20	47.18	≤54	PASS
				Peak	2483.500	-39.55	≤-21.20	55.65	≤74	PASS
				Peak	2495.770	-37.89	≤-21.20	57.31	≤74	PASS
				Peak	2500.000	-41.47	≤-21.20	53.73	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-48.96	≤-41.20	46.24	≤54	PASS
				AV	2383.850	-48.27	≤-41.20	46.93	≤54	PASS
				AV	2390.000	-48.49	≤-41.20	46.71	≤54	PASS
				Peak	2310.000	-42.53	≤-21.20	52.67	≤74	PASS
				Peak	2361.230	-38.72	≤-21.20	56.48	≤74	PASS
				Peak	2390.000	-39.94	≤-21.20	55.26	≤74	PASS
		High	2462	AV	2483.500	-48.1	≤-41.20	47.10	≤54	PASS
				AV	2495.990	-47.74	≤-41.20	47.46	≤54	PASS
				AV	2500.000	-48.01	≤-41.20	47.19	≤54	PASS
				Peak	2483.500	-41.96	≤-21.20	53.24	≤74	PASS
				Peak	2484.110	-37.99	≤-21.20	57.21	≤74	PASS
				Peak	2500.000	-42.04	≤-21.20	53.16	≤74	PASS
11N40SIS	Ant1	Low	2422	AV	2310.000	-48.65	≤-41.20	46.55	≤54	PASS



O				AV	2380.340	-47.81	≤ -41.20	47.39	≤ 54	PASS
				AV	2390.000	-48.06	≤ -41.20	47.14	≤ 54	PASS
				Peak	2310.000	-40.98	≤ -21.20	54.22	≤ 74	PASS
				Peak	2384.370	-38.77	≤ -21.20	56.43	≤ 74	PASS
				Peak	2390.000	-42.07	≤ -21.20	53.13	≤ 74	PASS
		High	2452	AV	2483.500	-47.81	≤ -41.20	47.39	≤ 54	PASS
				AV	2499.290	-47.16	≤ -41.20	48.04	≤ 54	PASS
				AV	2500.000	-47.61	≤ -41.20	47.59	≤ 54	PASS
				Peak	2483.500	-42.42	≤ -21.20	52.78	≤ 74	PASS
				Peak	2484.660	-38.14	≤ -21.20	57.06	≤ 74	PASS
				Peak	2500.000	-41.21	≤ -21.20	53.99	≤ 74	PASS

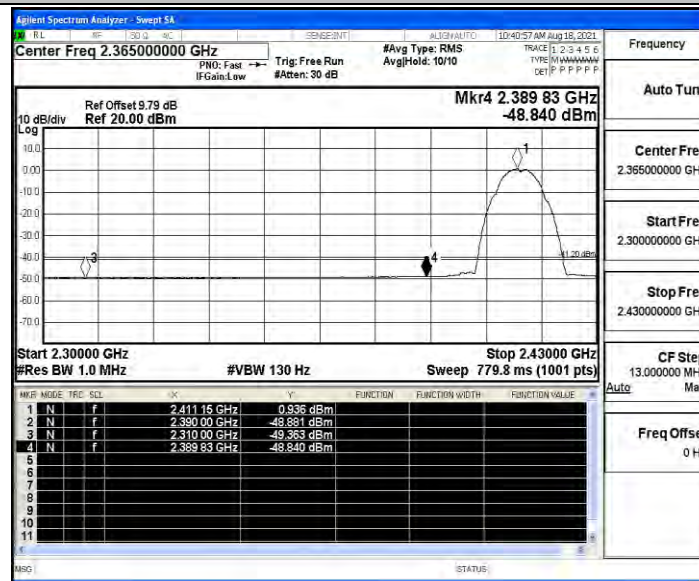
Note:

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.

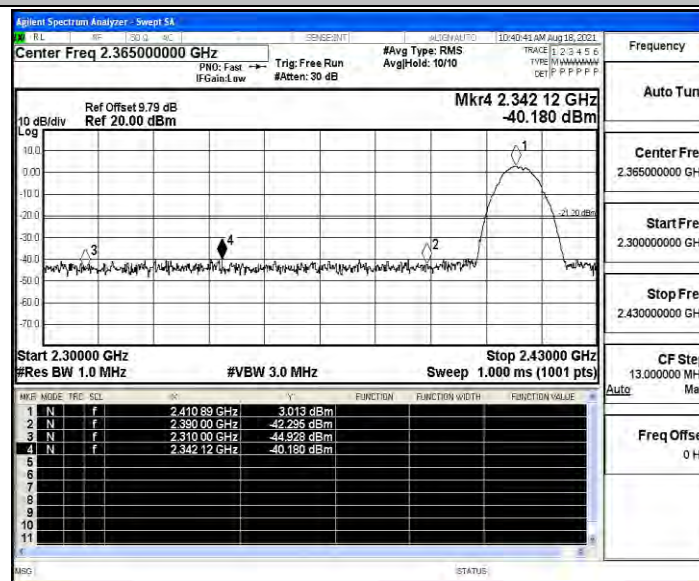


Test Graphs

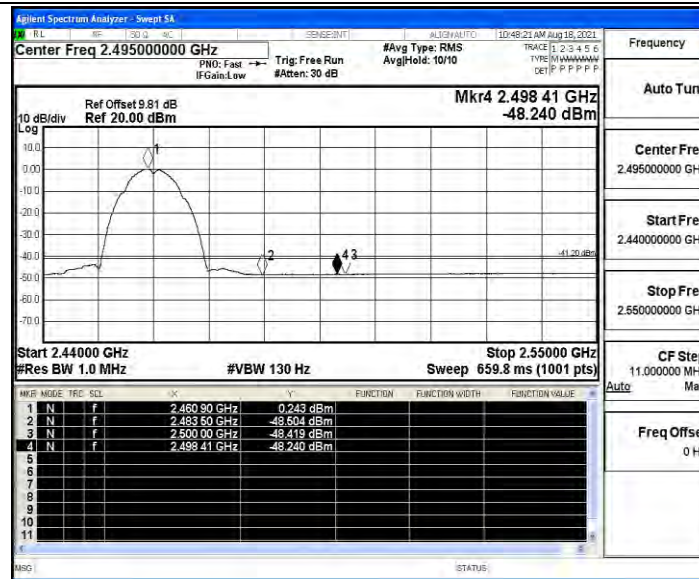
11B_Ant1_Low_2412_AV



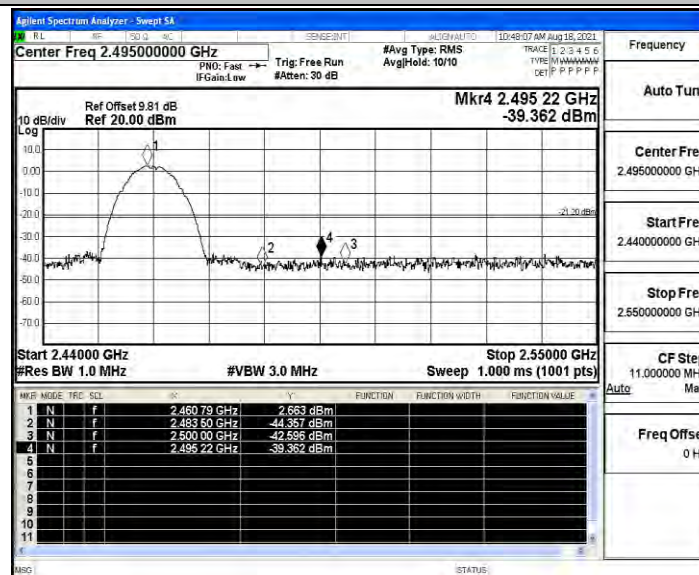
11B_Ant1_Low_2412_Peak



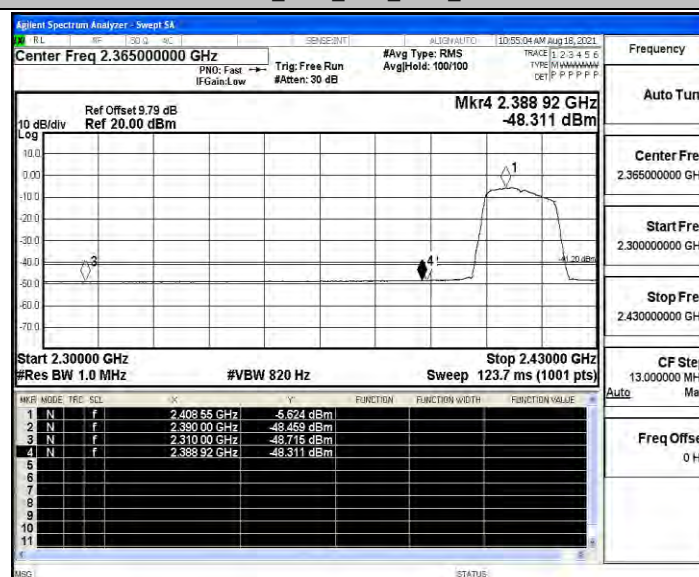
11B_Ant1_High_2462_AV



11B_Ant1_High_2462_Peak

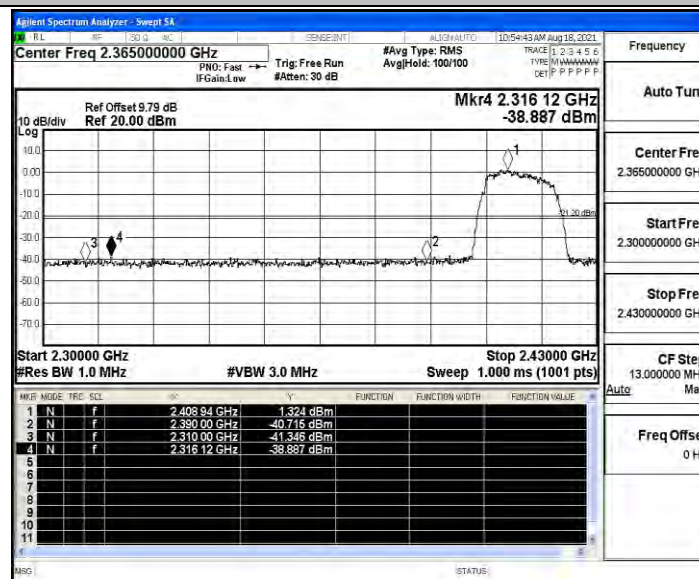


11G_Ant1_Low_2412_AV

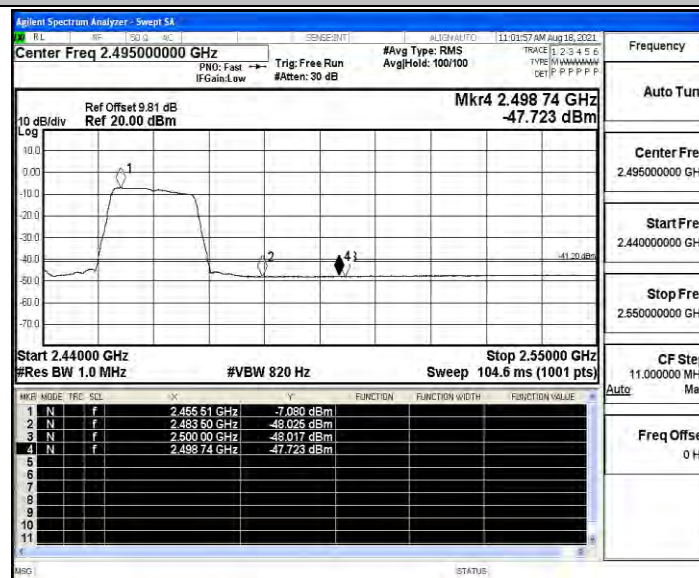




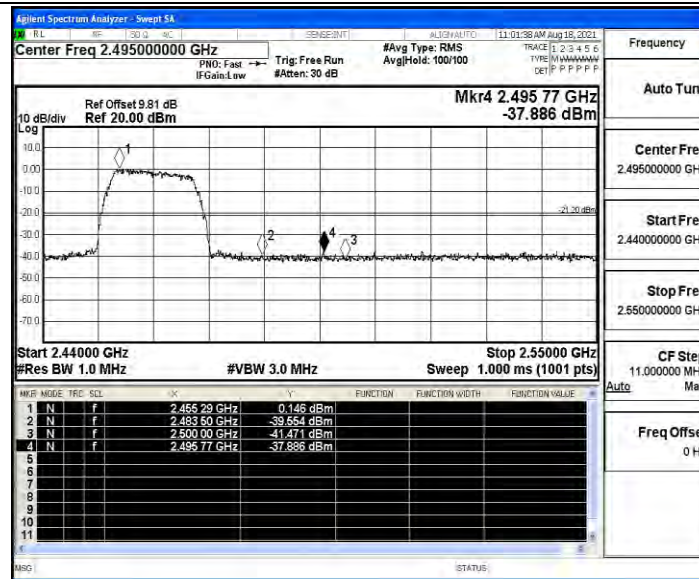
11G_Ant1_Low_2412_Peak



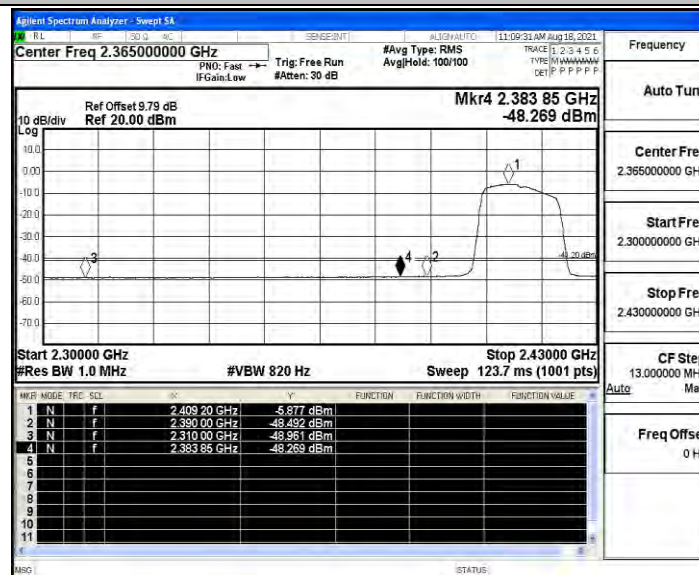
11G_Ant1_High_2462_AV



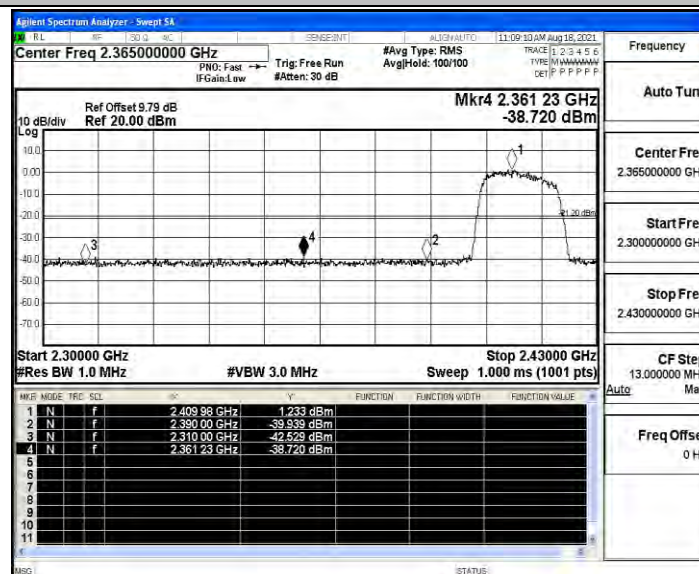
11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV

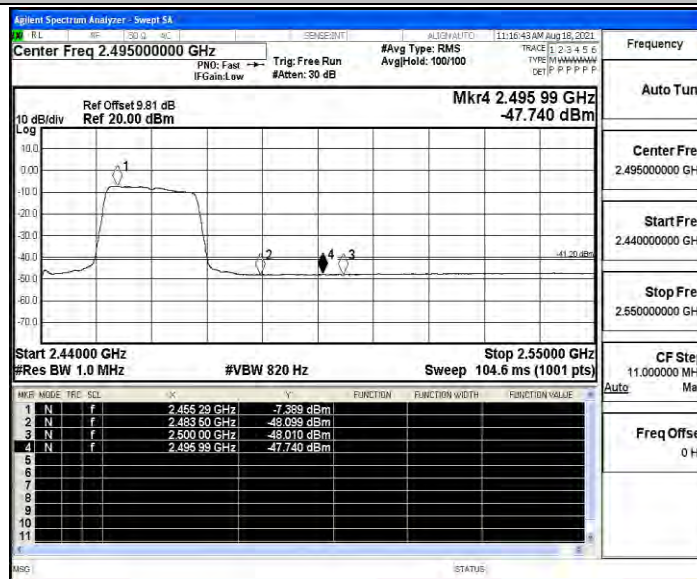


11N20SISO_Ant1_Low_2412_Peak

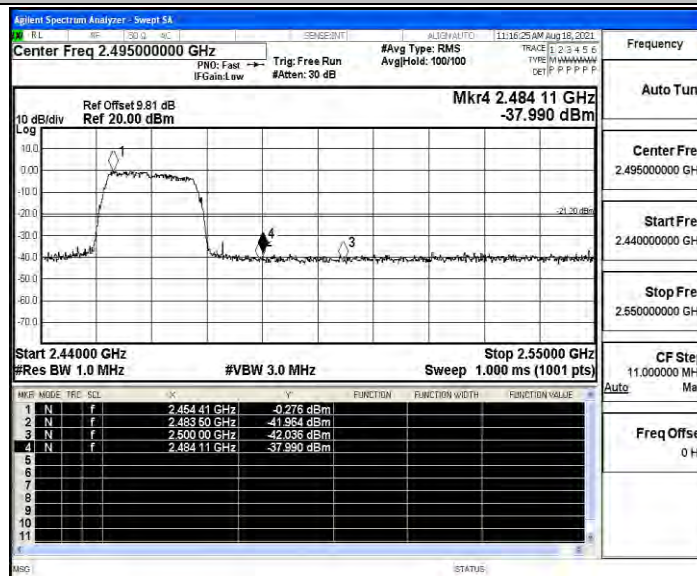




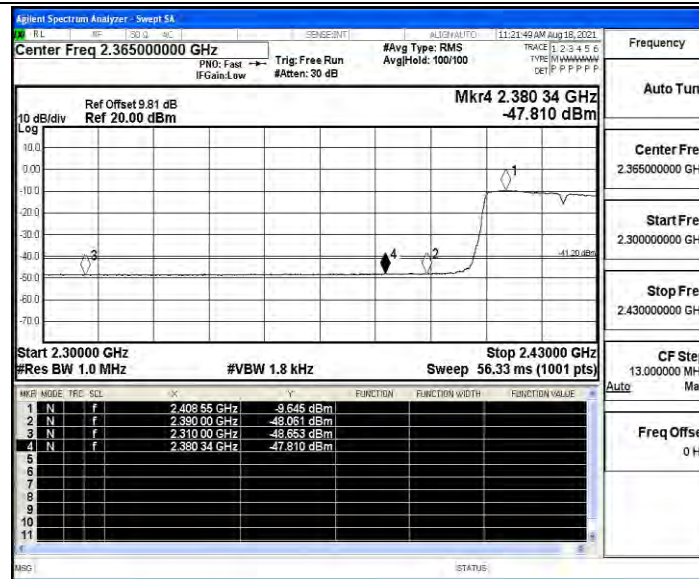
11N20SISO_Ant1_High_2462_AV



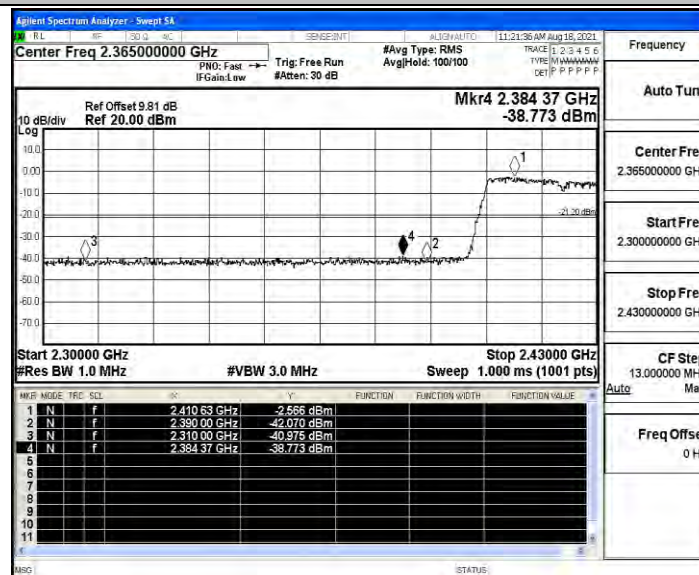
11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV

