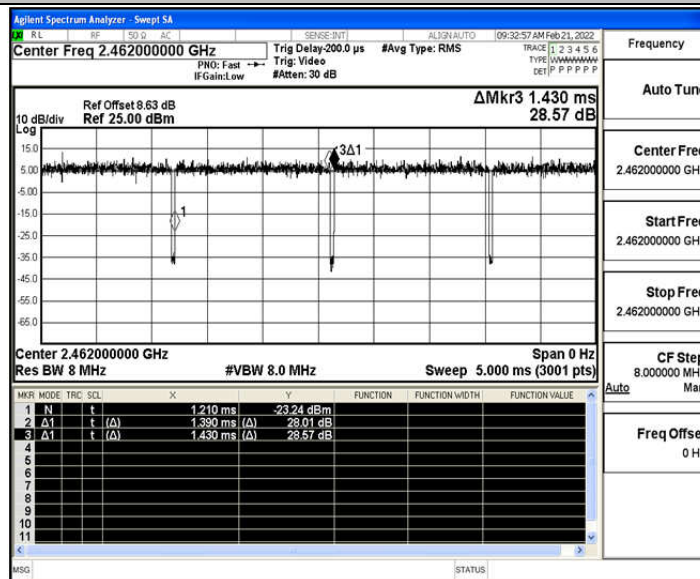
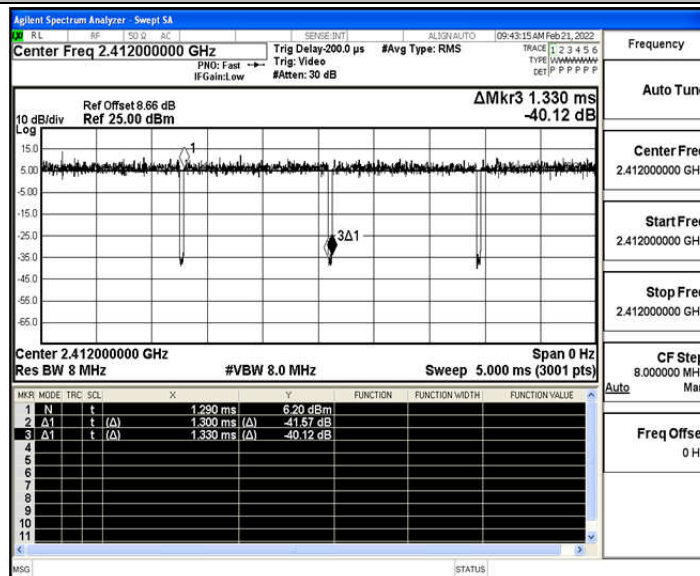




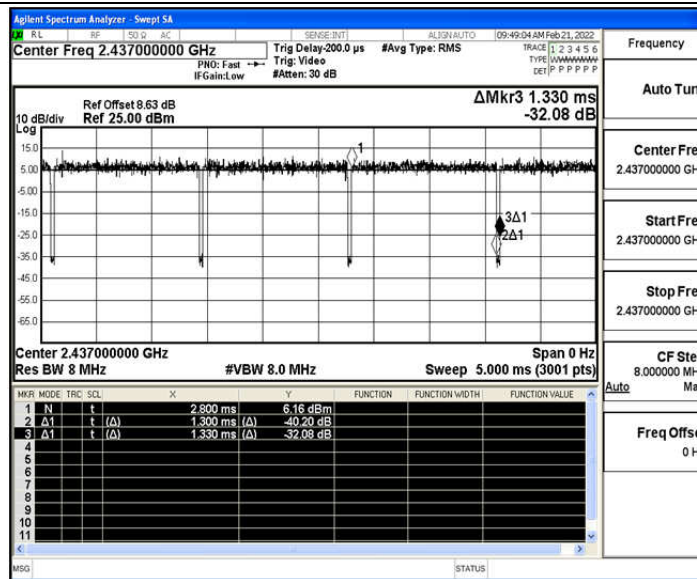
11G_Ant1_2462



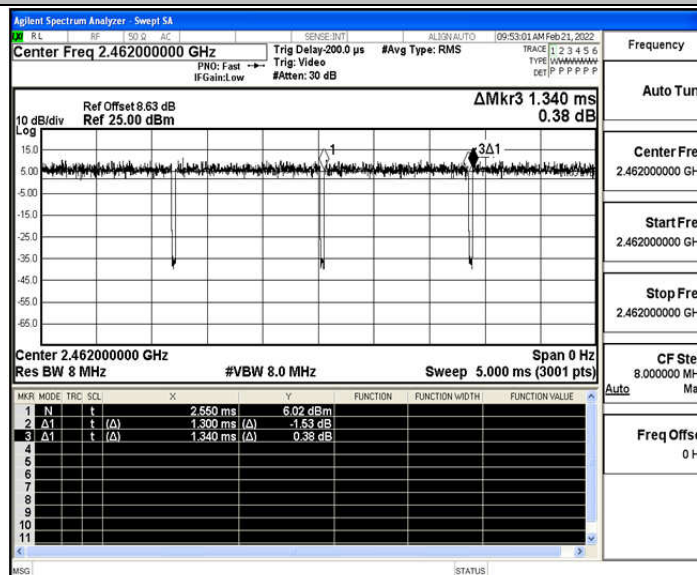
11N20SISO_Ant1_2412



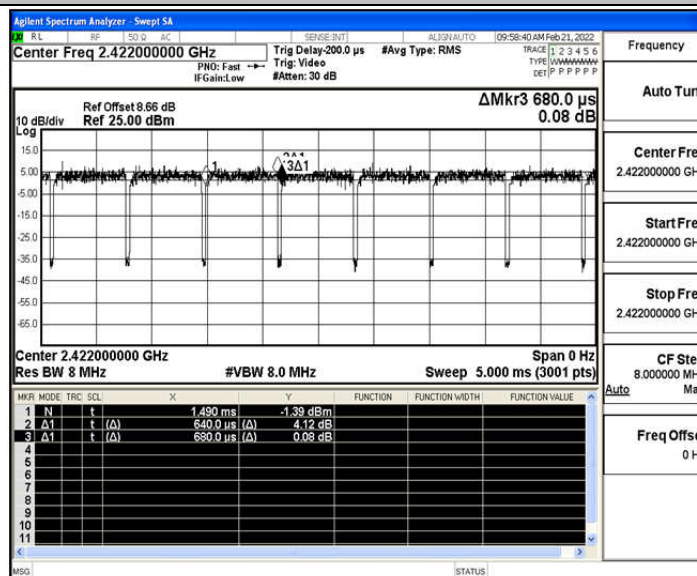
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

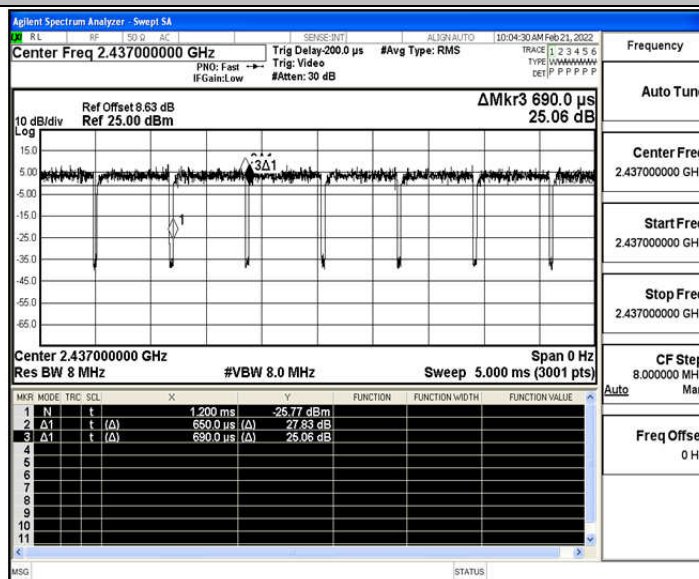


11N40SISO_Ant1_2422

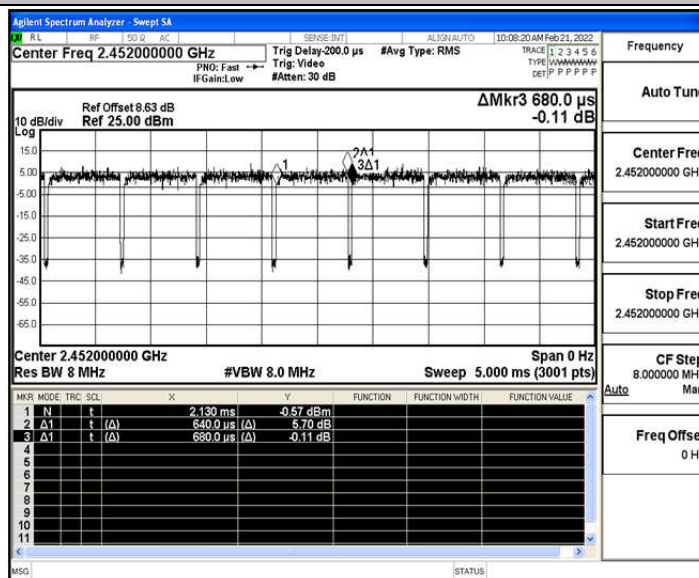




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452





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	Ant0	Low	2412	AV	2310.000	-48.97	≤-41.20	46.23	≤54	PASS
				AV	2388.790	-48.19	≤-41.20	47.01	≤54	PASS
				AV	2390.000	-48.3	≤-41.20	46.90	≤54	PASS
				Peak	2310.000	-38.1	≤-21.20	57.10	≤74	PASS
				Peak	2386.320	-36.04	≤-21.20	59.16	≤74	PASS
				Peak	2390.000	-36.99	≤-21.20	58.21	≤74	PASS
		High	2462	AV	2483.500	-47.97	≤-41.20	47.23	≤54	PASS
				AV	2486.860	-47.75	≤-41.20	47.45	≤54	PASS
				AV	2500.000	-47.98	≤-41.20	47.22	≤54	PASS
				Peak	2483.500	-36.04	≤-21.20	59.16	≤74	PASS
				Peak	2490.270	-34.71	≤-21.20	60.49	≤74	PASS
				Peak	2500.000	-37.16	≤-21.20	58.04	≤74	PASS
11G	Ant0	Low	2412	AV	2310.000	-48.37	≤-41.20	46.83	≤54	PASS
				AV	2389.960	-47.81	≤-41.20	47.39	≤54	PASS
				AV	2390.000	-47.81	≤-41.20	47.39	≤54	PASS
				Peak	2310.000	-38.61	≤-21.20	56.59	≤74	PASS
				Peak	2385.410	-36.28	≤-21.20	58.92	≤74	PASS
				Peak	2390.000	-37.54	≤-21.20	57.66	≤74	PASS
		High	2462	AV	2483.500	-47.65	≤-41.20	47.55	≤54	PASS
				AV	2485.650	-47.39	≤-41.20	47.81	≤54	PASS
				AV	2500.000	-47.61	≤-41.20	47.59	≤54	PASS
				Peak	2483.500	-37.68	≤-21.20	57.52	≤74	PASS
				Peak	2494.340	-35.81	≤-21.20	59.39	≤74	PASS
				Peak	2500.000	-37.42	≤-21.20	57.78	≤74	PASS
11N20SI SO	Ant0	Low	2412	AV	2310.000	-48.53	≤-41.20	46.67	≤54	PASS
				AV	2388.660	-47.68	≤-41.20	47.52	≤54	PASS
				AV	2390.000	-47.82	≤-41.20	47.38	≤54	PASS
				Peak	2310.000	-38.51	≤-21.20	56.69	≤74	PASS
				Peak	2388.920	-36.24	≤-21.20	58.96	≤74	PASS
				Peak	2390.000	-37.66	≤-21.20	57.54	≤74	PASS
		High	2462	AV	2483.500	-47.53	≤-41.20	47.67	≤54	PASS
				AV	2486.860	-47.24	≤-41.20	47.96	≤54	PASS
				AV	2500.000	-47.51	≤-41.20	47.69	≤54	PASS
				Peak	2483.500	-36.84	≤-21.20	58.36	≤74	PASS
				Peak	2489.500	-35.6	≤-21.20	59.60	≤74	PASS
				Peak	2500.000	-37.33	≤-21.20	57.87	≤74	PASS
11N40SI	Ant0	Low	2422	AV	2310.000	-48.28	≤-41.20	46.92	≤54	PASS



SO				AV	2388.010	-47.43	≤-41.20	47.77	≤54	PASS
				AV	2390.000	-47.58	≤-41.20	47.62	≤54	PASS
				Peak	2310.000	-38.35	≤-21.20	56.85	≤74	PASS
				Peak	2365.130	-36.14	≤-21.20	59.06	≤74	PASS
				Peak	2390.000	-36.71	≤-21.20	58.49	≤74	PASS
		High	2452	AV	2483.500	-47.1	≤-41.20	48.10	≤54	PASS
				AV	2487.850	-46.95	≤-41.20	48.25	≤54	PASS
				AV	2500.000	-47.12	≤-41.20	48.08	≤54	PASS
				Peak	2483.500	-37.03	≤-21.20	58.17	≤74	PASS
				Peak	2495.660	-35.77	≤-21.20	59.43	≤74	PASS
				Peak	2500.000	-37.54	≤-21.20	57.66	≤74	PASS



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	-49.03	≤-41.20	46.17	≤54	PASS
				AV	2389.440	-48.13	≤-41.20	47.07	≤54	PASS
				AV	2390.000	-48.28	≤-41.20	46.92	≤54	PASS
				Peak	2310.000	-38.24	≤-21.20	56.96	≤74	PASS
				Peak	2343.550	-36.43	≤-21.20	58.77	≤74	PASS
				Peak	2390.000	-37.5	≤-21.20	57.70	≤74	PASS
		High	2462	AV	2483.500	-48.07	≤-41.20	47.13	≤54	PASS
				AV	2485.760	-47.99	≤-41.20	47.21	≤54	PASS
				AV	2500.000	-48.05	≤-41.20	47.15	≤54	PASS
				Peak	2483.500	-36.8	≤-21.20	58.40	≤74	PASS
				Peak	2489.830	-36.44	≤-21.20	58.76	≤74	PASS
				Peak	2500.000	-37.4	≤-21.20	57.80	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-48.68	≤-41.20	46.52	≤54	PASS
				AV	2385.930	-47.91	≤-41.20	47.29	≤54	PASS
				AV	2390.000	-47.96	≤-41.20	47.24	≤54	PASS
				Peak	2310.000	-38.18	≤-21.20	57.02	≤74	PASS
				Peak	2344.720	-36.39	≤-21.20	58.81	≤74	PASS
				Peak	2390.000	-37.15	≤-21.20	58.05	≤74	PASS
		High	2462	AV	2483.500	-47.5	≤-41.20	47.70	≤54	PASS
				AV	2499.070	-47.23	≤-41.20	47.97	≤54	PASS
				AV	2500.000	-47.51	≤-41.20	47.69	≤54	PASS
				Peak	2483.500	-38.06	≤-21.20	57.14	≤74	PASS
				Peak	2490.820	-35.72	≤-21.20	59.48	≤74	PASS
				Peak	2500.000	-36.98	≤-21.20	58.22	≤74	PASS
11N20SI SO	Ant1	Low	2412	AV	2310.000	-48.71	≤-41.20	46.49	≤54	PASS
				AV	2388.920	-47.74	≤-41.20	47.46	≤54	PASS
				AV	2390.000	-47.9	≤-41.20	47.30	≤54	PASS
				Peak	2310.000	-38.7	≤-21.20	56.50	≤74	PASS
				Peak	2359.670	-36.5	≤-21.20	58.70	≤74	PASS
				Peak	2390.000	-38.11	≤-21.20	57.09	≤74	PASS
		High	2462	AV	2483.500	-47.55	≤-41.20	47.65	≤54	PASS
				AV	2498.300	-47.29	≤-41.20	47.91	≤54	PASS
				AV	2500.000	-47.38	≤-41.20	47.82	≤54	PASS
				Peak	2483.500	-37.33	≤-21.20	57.87	≤74	PASS
				Peak	2499.180	-35.19	≤-21.20	60.01	≤74	PASS
				Peak	2500.000	-37.36	≤-21.20	57.84	≤74	PASS
11N40SI SO	Ant1	Low	2422	AV	2310.000	-48.38	≤-41.20	46.82	≤54	PASS
				AV	2387.490	-47.05	≤-41.20	48.15	≤54	PASS
				AV	2390.000	-47.37	≤-41.20	47.83	≤54	PASS



				Peak	2310.000	-38.35	≤ -21.20	56.85	≤ 74	PASS
				Peak	2388.660	-33.52	≤ -21.20	61.68	≤ 74	PASS
				Peak	2390.000	-35.29	≤ -21.20	59.91	≤ 74	PASS
		High	2452	AV	2483.500	-46.87	≤ -41.20	48.33	≤ 54	PASS
				AV	2487.190	-46.55	≤ -41.20	48.65	≤ 54	PASS
				AV	2500.000	-47.28	≤ -41.20	47.92	≤ 54	PASS
				Peak	2483.500	-34.72	≤ -21.20	60.48	≤ 74	PASS
				Peak	2486.090	-32.36	≤ -21.20	62.84	≤ 74	PASS
				Peak	2500.000	-37.64	≤ -21.20	57.56	≤ 74	PASS

**MIMO**

Test Mode	Freq.	Covert Radiated E Level At 3m (dBuV/m)			Antenna Gain (dBi)	Ground Reflection Factor (dB)	E [dBuV/m]	Detector	Limit (dBuV/m)
		Ant0	Ant1	MIMO					
11N20 MIMO	2310.000	-48.53	-48.71	-45.61	2.71	0	52.33	AV	≤54
	2388.920	-47.68	-47.74	-44.70	2.71	0	53.24	AV	≤54
	2390.000	-47.82	-47.9	-44.85	2.71	0	53.09	AV	≤54
	2310.000	-38.51	-38.7	-35.59	2.71	0	62.34	Peak	≤74
	2359.670	-36.24	-36.5	-33.36	2.71	0	64.58	Peak	≤74
	2390.000	-37.66	-38.11	-34.87	2.71	0	63.07	Peak	≤74
	2483.500	-47.53	-47.55	-44.53	2.71	0	53.41	AV	≤54
	2498.300	-47.24	-47.29	-44.25	2.71	0	53.68	AV	≤54
	2500.000	-47.51	-47.38	-44.43	2.71	0	53.50	AV	≤54
	2483.500	-36.84	-37.33	-34.07	2.71	0	63.87	Peak	≤74
	2499.180	-35.6	-35.19	-32.38	2.71	0	65.56	Peak	≤74
	2500.000	-37.33	-37.36	-34.33	2.71	0	63.60	Peak	≤74
11N40 MIMO	2310.000	-48.28	-48.38	-45.32	2.71	0	52.62	AV	≤54
	2387.490	-47.43	-47.05	-44.23	2.71	0	53.71	AV	≤54
	2390.000	-47.58	-47.37	-44.46	2.71	0	53.47	AV	≤54
	2310.000	-38.35	-38.35	-35.34	2.71	0	62.60	Peak	≤74
	2388.660	-36.14	-33.52	-31.63	2.71	0	66.31	Peak	≤74
	2390.000	-36.71	-35.29	-32.93	2.71	0	65.01	Peak	≤74
	2483.500	-47.1	-46.87	-43.97	2.71	0	53.96	AV	≤54
	2487.190	-46.95	-46.55	-44.74	2.71	0	53.20	AV	≤54
	2500.000	-47.12	-47.28	-44.19	2.71	0	53.75	AV	≤54
	2483.500	-37.03	-34.72	-32.71	2.71	0	65.22	Peak	≤74
	2486.090	-35.77	-32.36	-30.73	2.71	0	67.21	Peak	≤74
	2500.000	-37.54	-37.64	-34.58	2.71	0	63.36	Peak	≤74

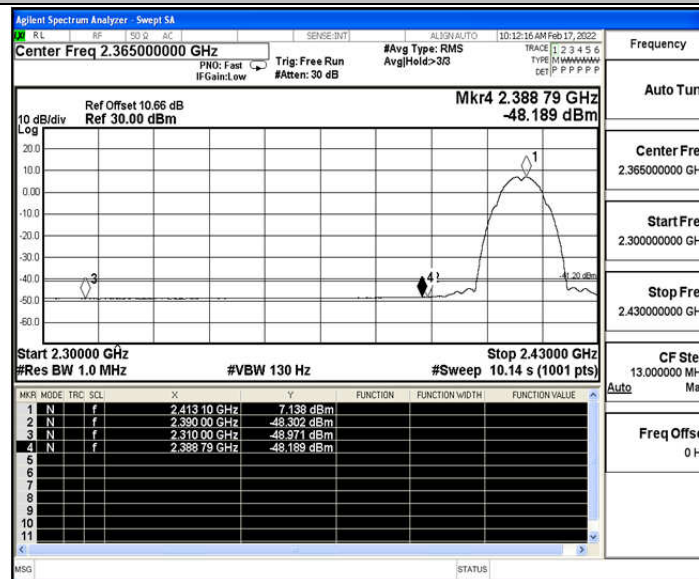
Note:

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.

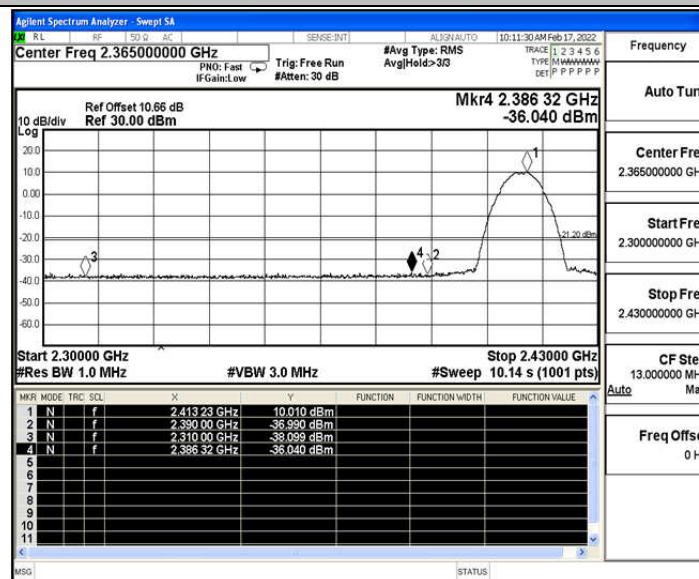


Test Graphs

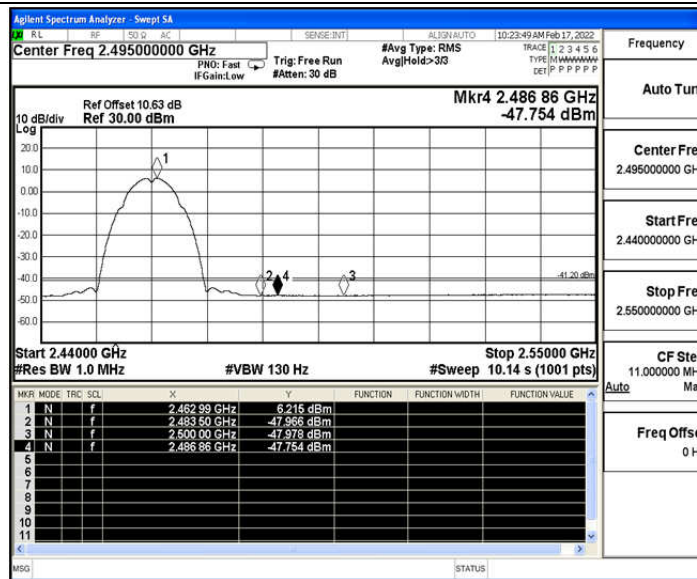
11B_Ant0_Low_2412_AV



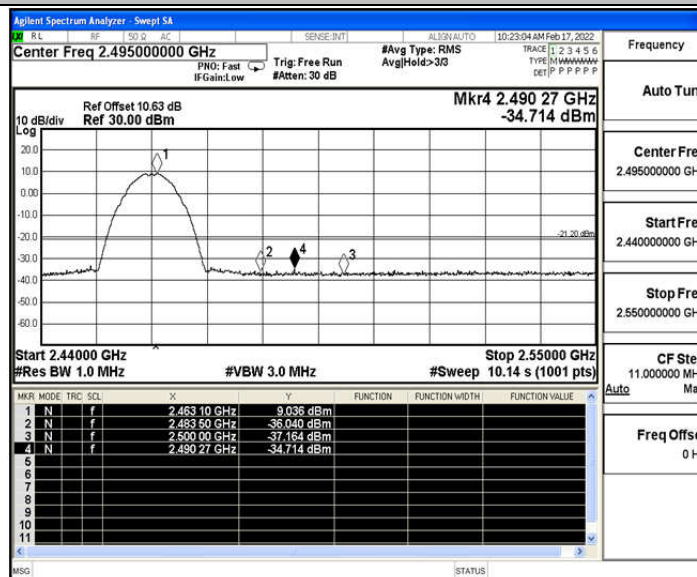
11B_Ant0_Low_2412_Peak



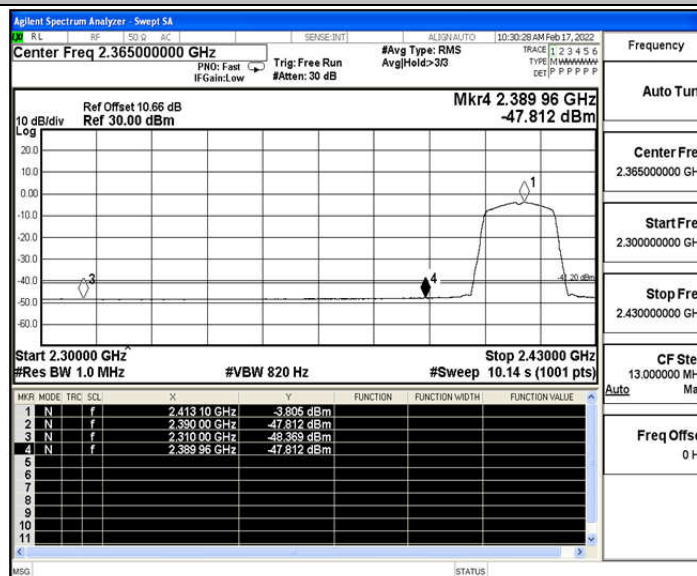
11B_Ant0_High_2462_AV



11B_Ant0_High_2462_Peak

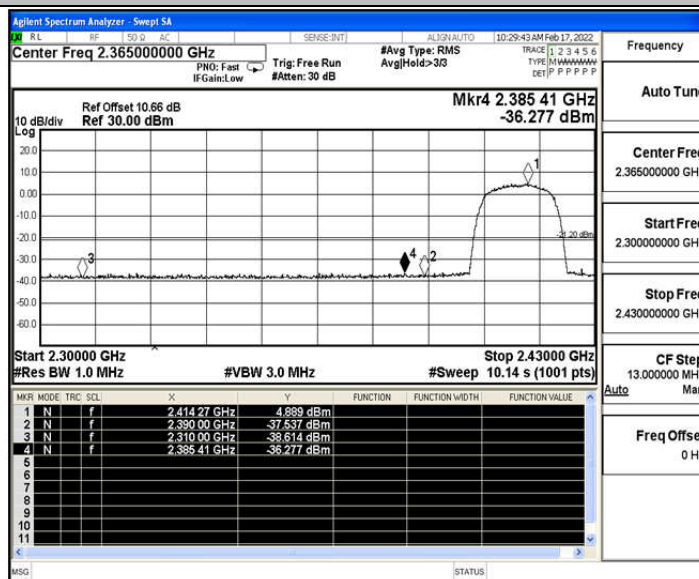


11G_Ant0_Low_2412_AV

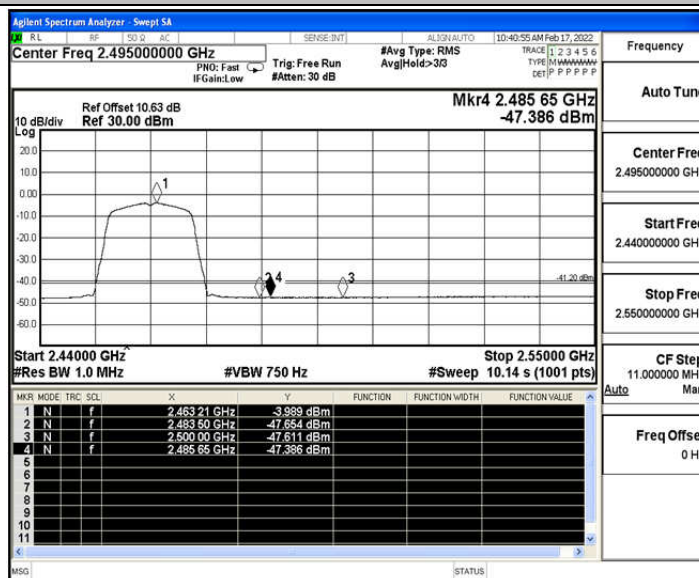




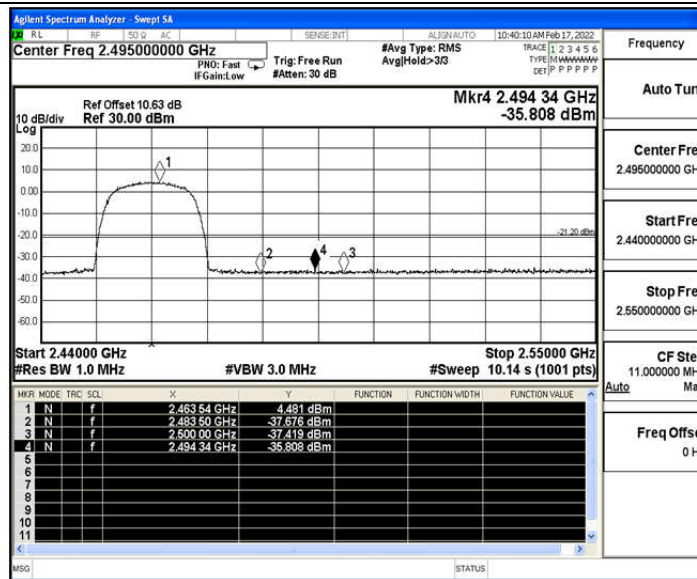
11G_Ant0_Low_2412_Peak



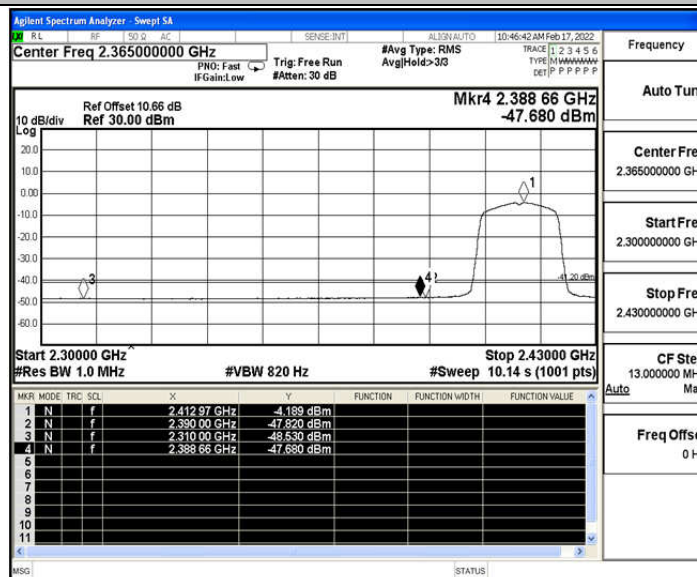
11G_Ant0_High_2462_AV



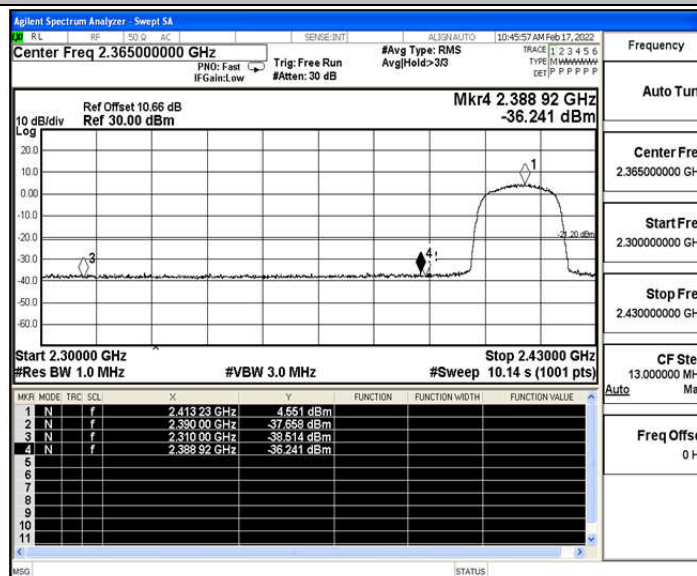
11G_Ant0_High_2462_Peak



11N20SISO_Ant0_Low_2412_AV

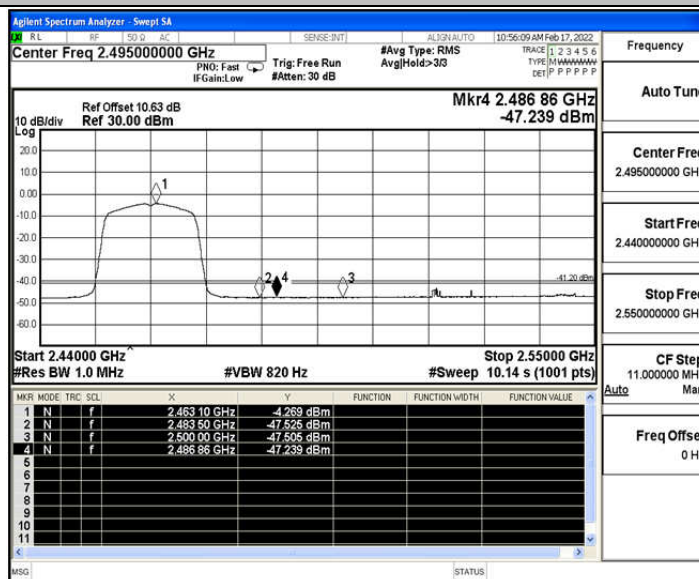


11N20SISO_Ant0_Low_2412_Peak

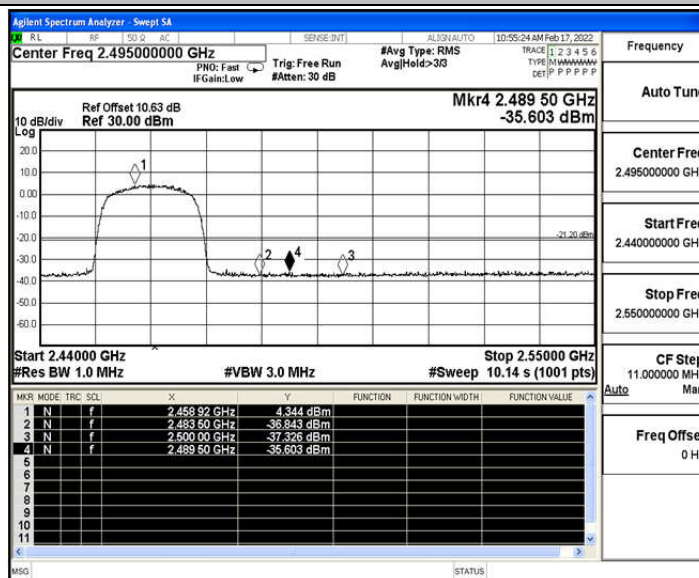




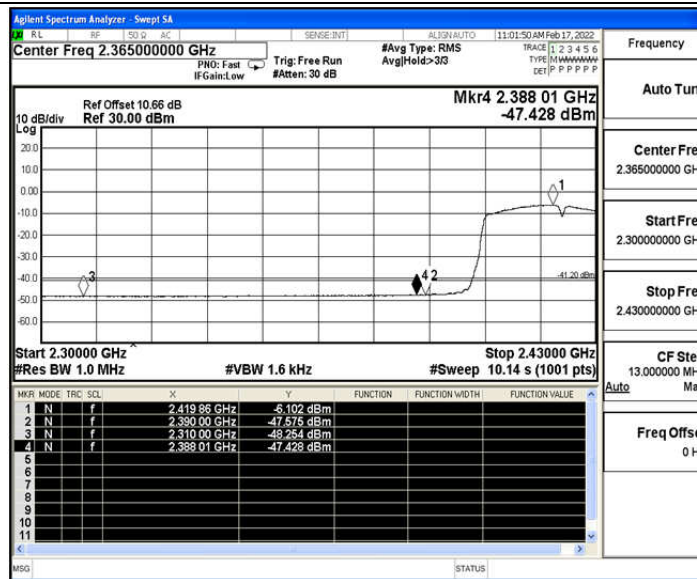
11N20SISO_Ant0_High_2462_AV



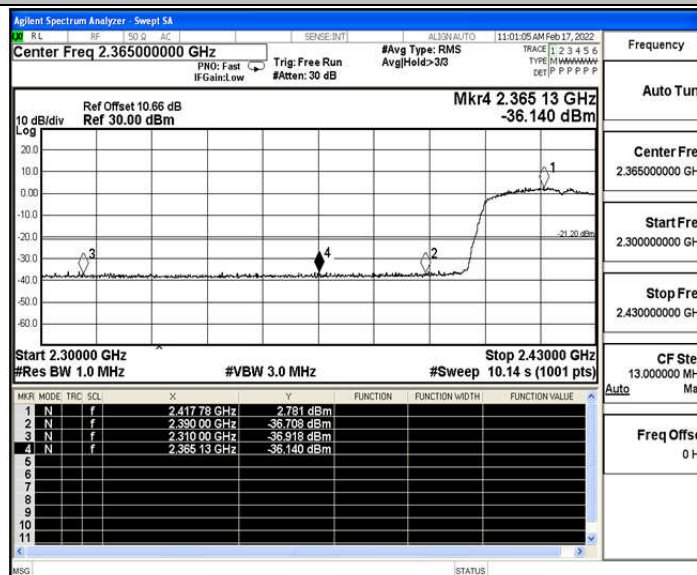
11N20SISO_Ant0_High_2462_Peak



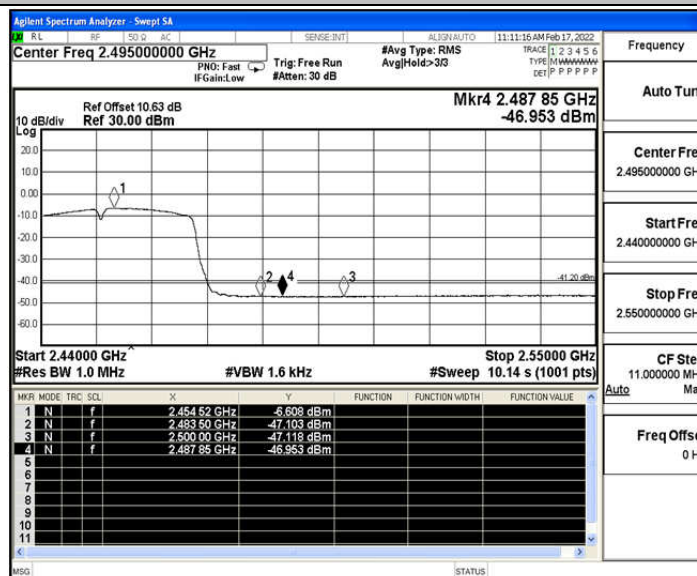
11N40SISO_Ant0_Low_2422_AV



11N40SISO_Ant0_Low_2422_Peak

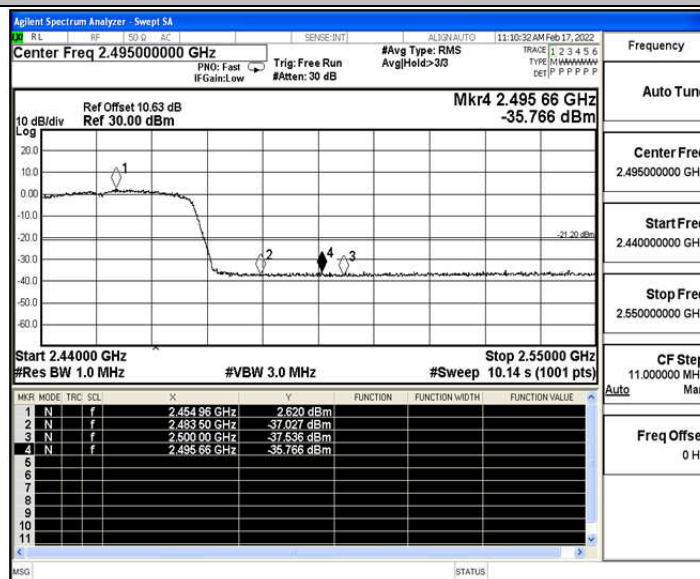


11N40SISO_Ant0_High_2452_AV





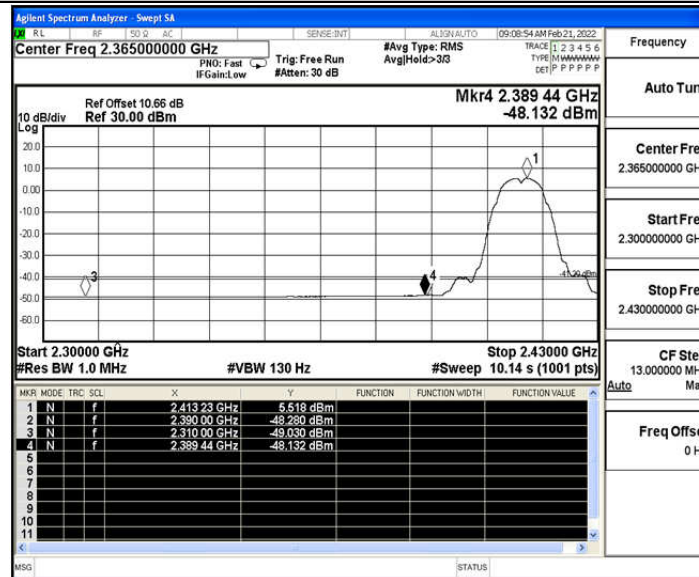
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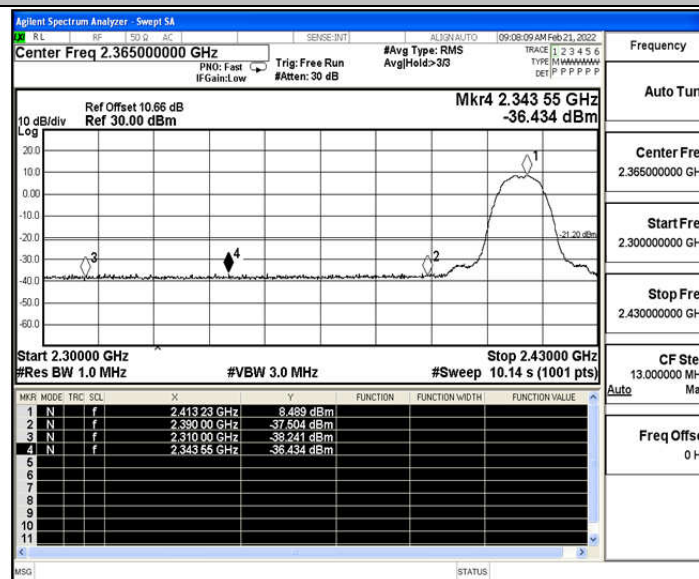


Test Graphs

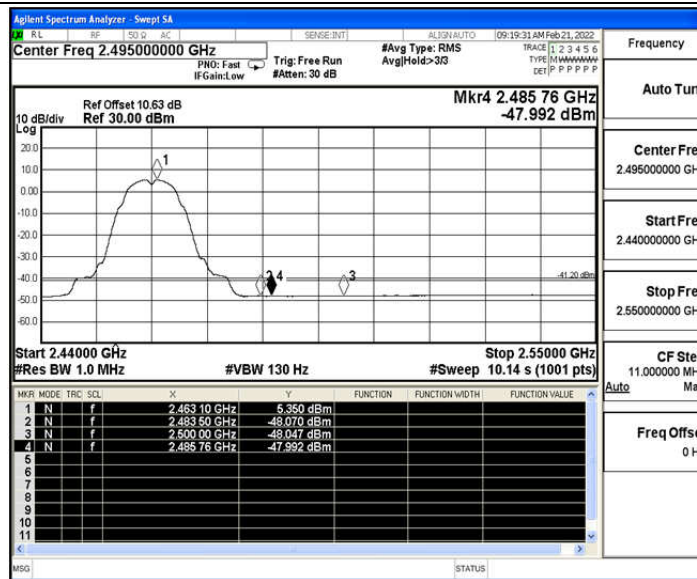
11B_Ant1_Low_2412_AV



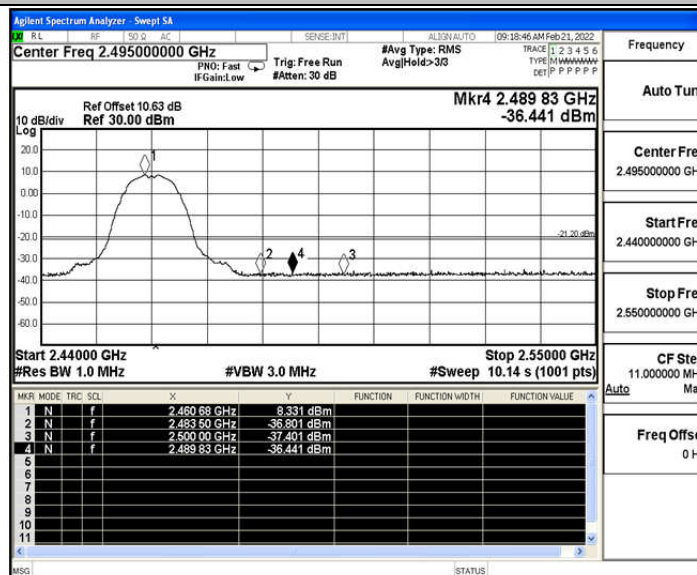
11B_Ant1_Low_2412_Peak



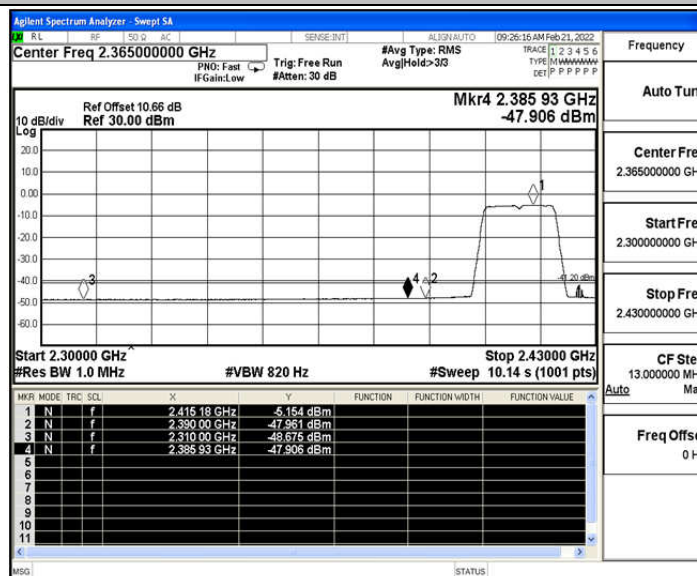
11B_Ant1_High_2462_AV

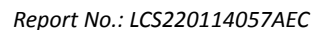


11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV





Agilent Spectrum Analyzer - Sweep SA

RF L F SO G AC SENSE INT ALG/ALUTO 09:25:31 AM Feb 21, 2022

Center Freq 2.365000000 GHz

Ref Offset 10.66 dB
Ref 30.00 dBm

Trig: Free Run
#Atten: 40 dB

#Avg Type: RMS
Avg/Hold>30

Trace 1 2 3 4 5 6
Type 1 2 3 4 5 6
Det P P P P P P

Frequency

Auto Tune

Center Freq
2.365000000 GHz

Start Freq
2.300000000 GHz

Stop Freq
2.430000000 GHz

CF Step
13.000000 MHz

Auto

Freq Offset
0 Hz

Mkr4 2.344 72 GHz
-36.390 dBm

10 dB/div
Log

Start 2.30000 GHz
#Res BW 1.0 MHz

#VBW 3.0 MHz

Stop 2.43000 GHz
#Sweep 10.14 s (1001 pts)

MKR	MODE	TRC	SQL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.415 83 GHz	4.059 dBm			
2	N	f		2.390 00 GHz	-37.150 dBm			
3	N	f		2.310 00 GHz	-38.033 dBm			
4	N	f		2.344 72 GHz	-36.390 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Agilent Spectrum Analyzer - Sweep SA

RL RF SQ G AC SENSE INT ALG SIGNAL AUTO 09-20-23 AM Feb 21, 2022

Center Freq 2.495000000 GHz **Mkr4 2.499 07 GHz**
-47.227 dBm

PNG: Fast Trig: Free Run #Avg Type: RMS
IF Gain: Low #Atten: 30 dB AvgI:Hold>30

Ref Offset 10.63 dB
Ref 30.00 dBm

The spectrum plot displays a signal at 2.49907 GHz with a power level of -47.227 dBm. The y-axis represents power density in dB/dBm, ranging from -50 to 20. The x-axis represents frequency in GHz, ranging from 2.44000 to 2.55000. A reference level of 30.00 dBm is shown. Measurement points are indicated by arrows and labels: 1 (peak), 2 (noise floor), 4 (signal), and 11 (noise floor).

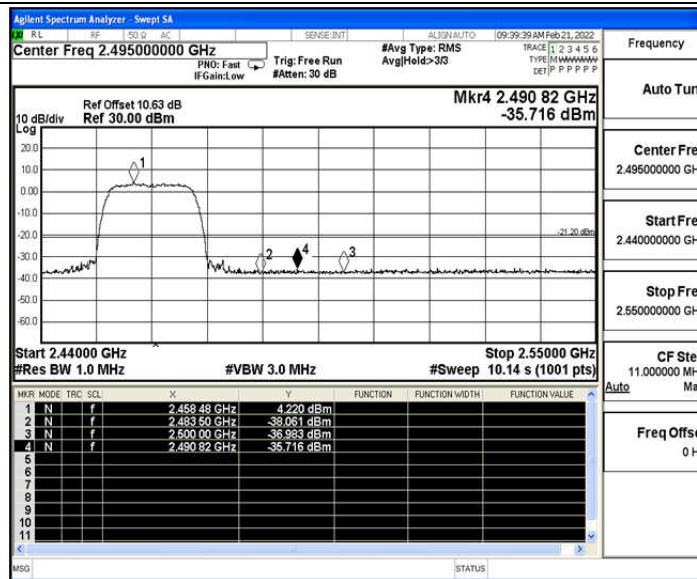
MKR MODE	FREQ	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	2.460 79 GHz	-4.947 dBm			
2	N	f	2.483 50 GHz	-47.502 dBm			
3	N	f	2.500 00 GHz	-47.505 dBm			
4	N	f	2.499 07 GHz	-47.227 dBm			
5							
6							
7							
8							
9							
10							
11							

Start 2.44000 GHz Stop 2.55000 GHz
#Res BW 1.0 MHz #VBW 820 Hz #Sweep 10.14 s (1001 pts)

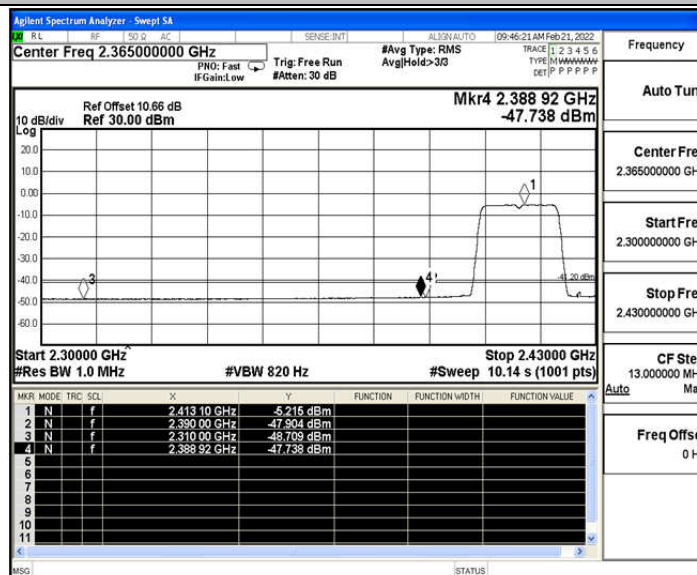
Frequency Auto Tune Center Freq 2.495000000 GHz Start Freq 2.440000000 GHz Stop Freq 2.550000000 GHz CF Step 11.000000 MHz Mar

Freq Offset 0 Hz

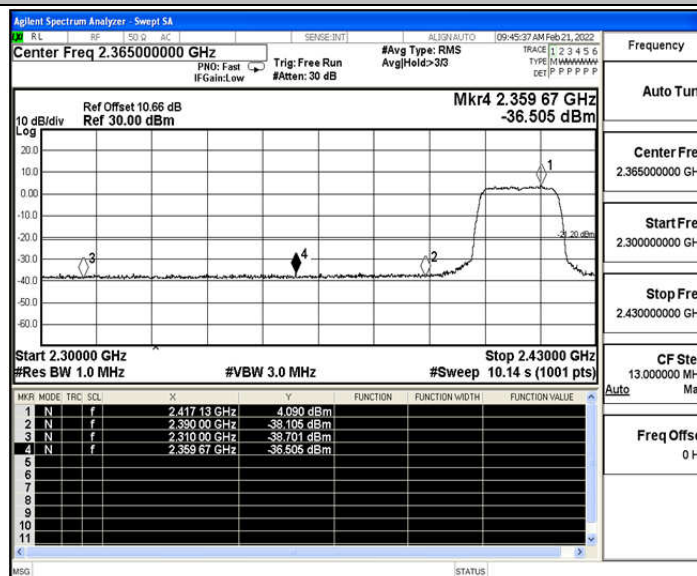
94 / 98



11N20SISO_Ant1_Low_2412_AV

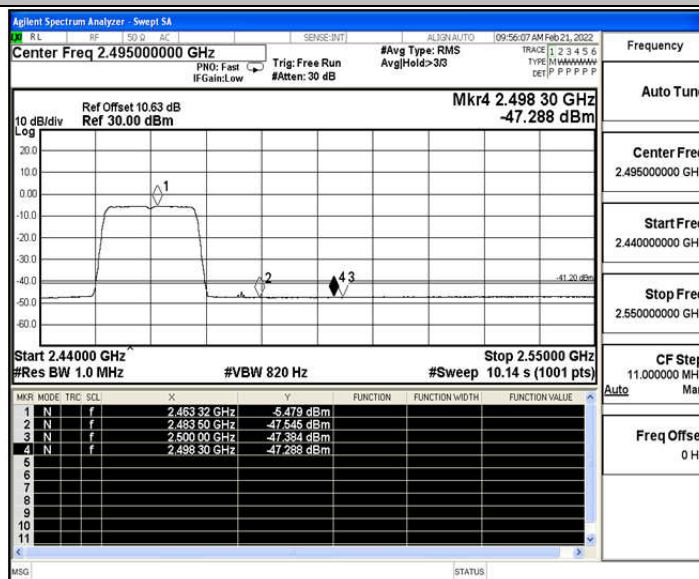


11N20SISO_Ant1_Low_2412_Peak

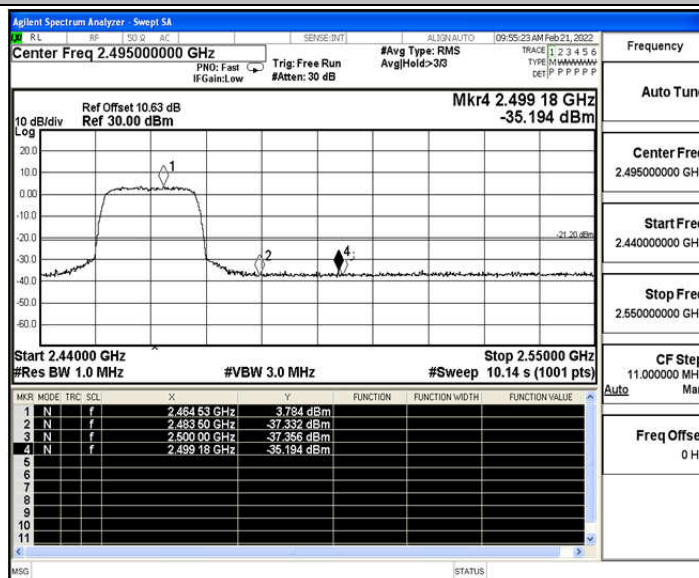




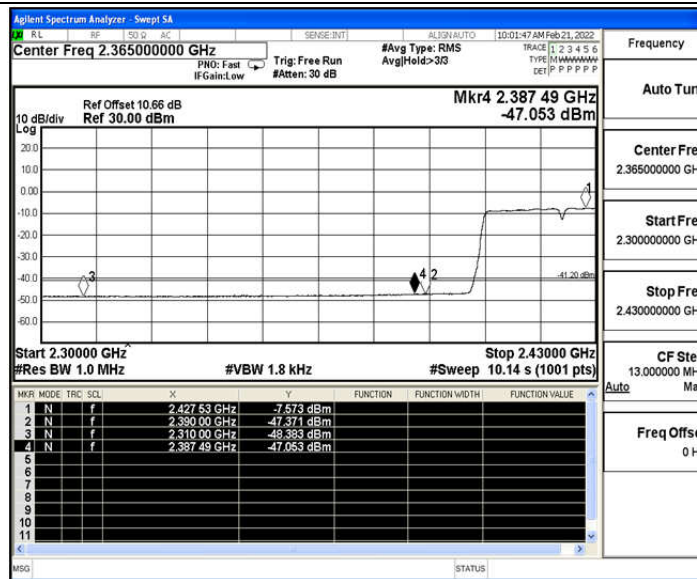
11N20SISO_Ant1_High_2462_AV



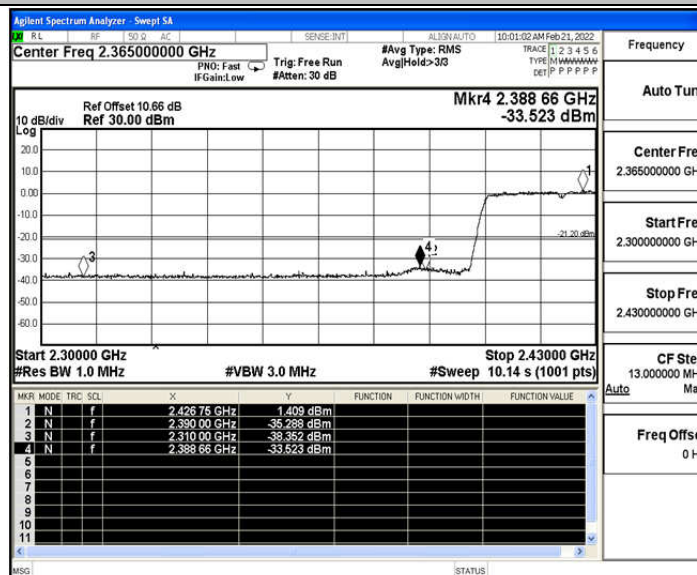
11N20SISO_Ant1_High_2462_Peak



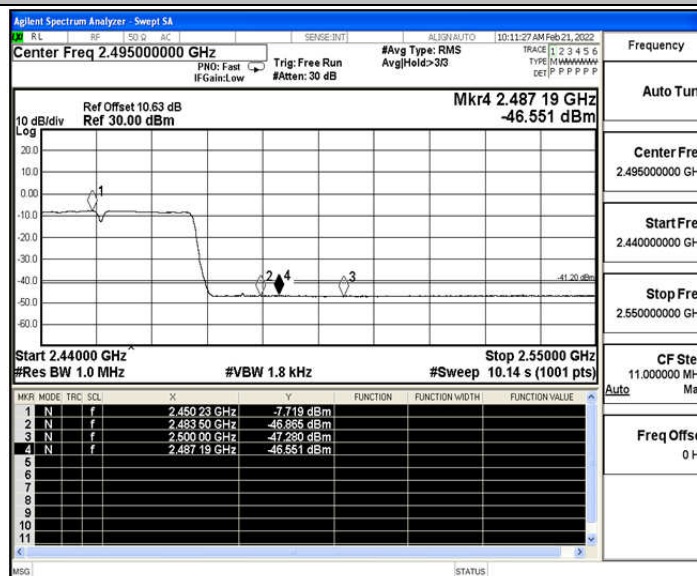
11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV





11N40SISO_Ant1_High_2452_Peak

