



Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: 7-inch tablet

Test Model: Q8

Environmental Conditions

Temperature:	21.1 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Mark Chen
Supervised by:	Libin



B.1 DTS Bandwidth

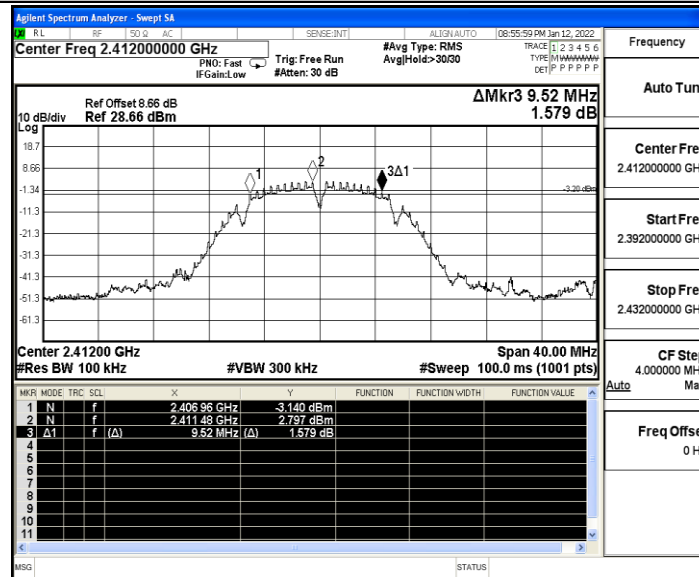
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.520	2406.960	2416.480	0.5	PASS
		2437	9.560	2431.960	2441.520	0.5	PASS
		2462	9.560	2456.960	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	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.600	2453.160	2470.760	0.5	PASS

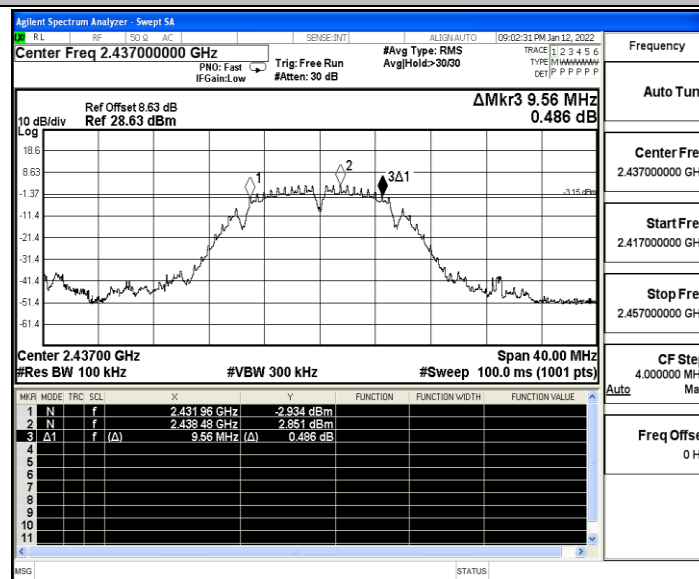


Test Graphs

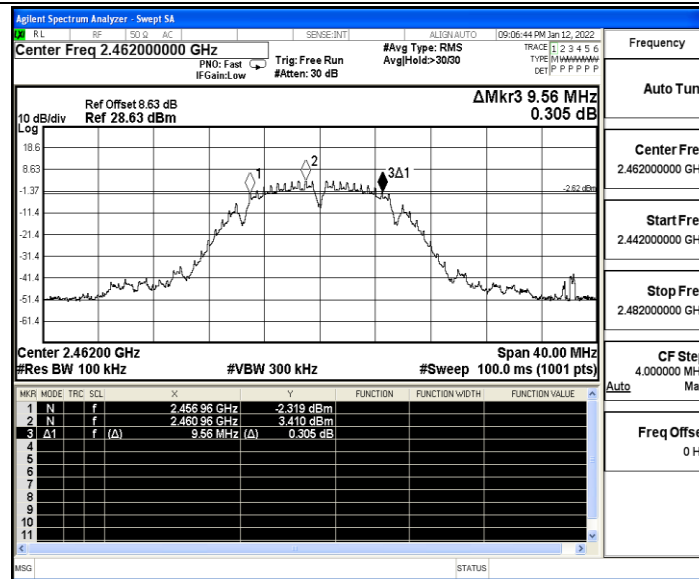
11B_Ant1_2412



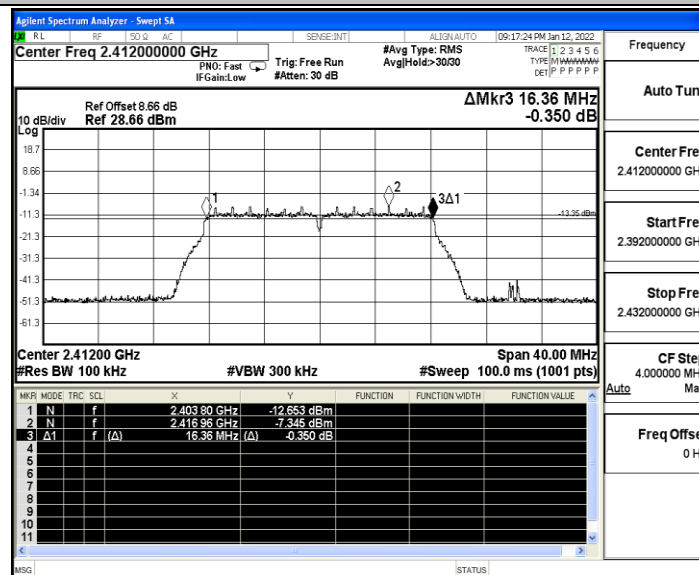
11B_Ant1_2437



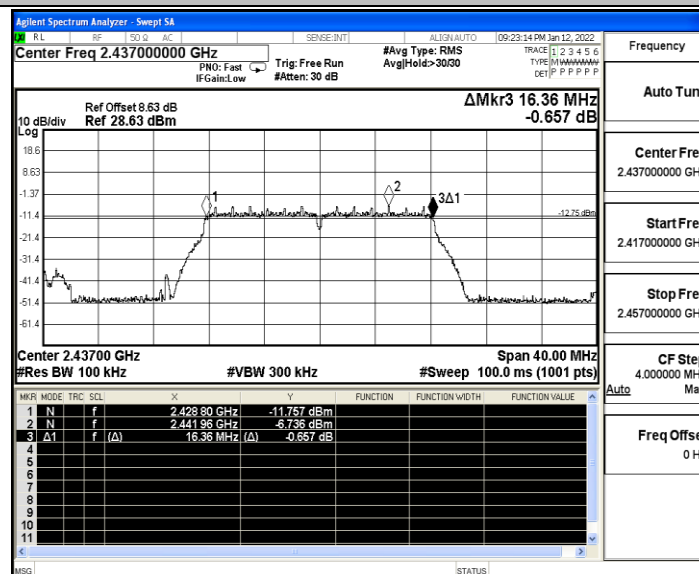
11B_Ant1_2462



11G_Ant1_2412

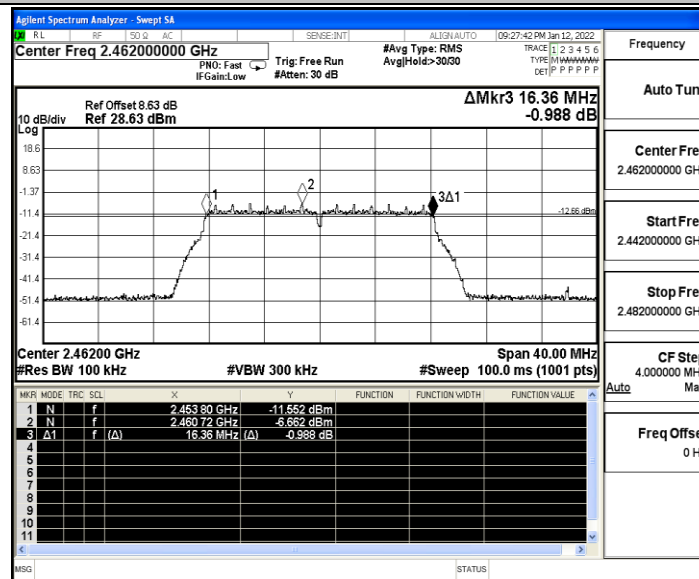


11G_Ant1_2437

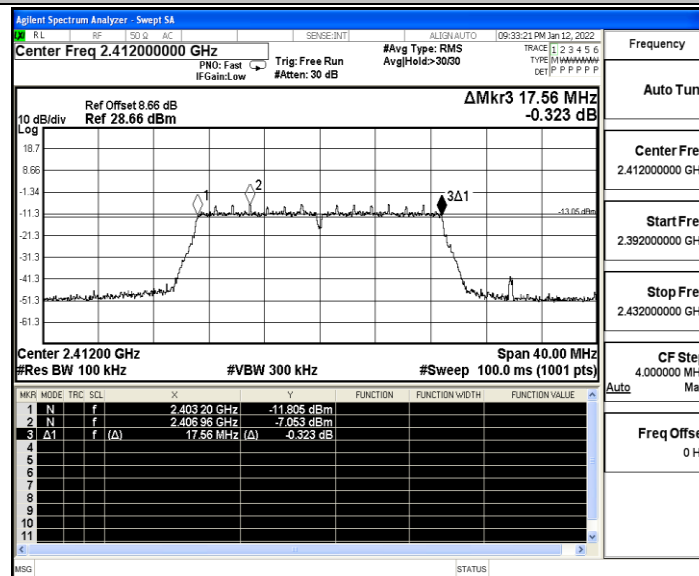




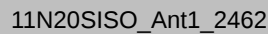
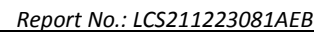
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437





B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit[dBm]	Verdict
11B	Ant1	2412	8.44	0	8.44	≤30.00	PASS
		2437	8.08	0	8.08	≤30.00	PASS
		2462	8.91	0	8.91	≤30.00	PASS
11G	Ant1	2412	2.68	0.50	3.18	≤30.00	PASS
		2437	2.67	0.50	3.17	≤30.00	PASS
		2462	2.83	0.50	3.33	≤30.00	PASS
11N20SISO	Ant1	2412	2.42	0.53	2.95	≤30.00	PASS
		2437	2.35	0.53	2.88	≤30.00	PASS
		2462	2.47	0.53	3.00	≤30.00	PASS



B.3 Maximum power spectral density

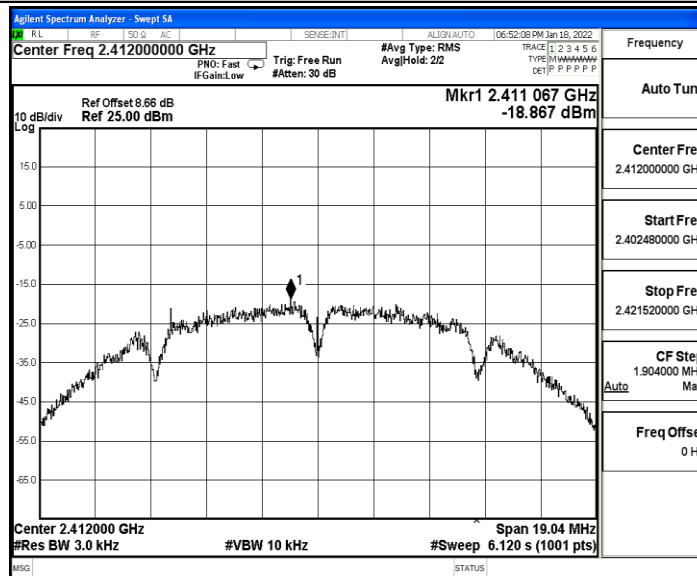
Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Duty Cycle Factor(dB)	Report power spectral density [dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-18.87	0	-18.87	≤8.00	PASS
		2437	-13.29	0	-13.29	≤8.00	PASS
		2462	-17.92	0	-17.92	≤8.00	PASS
11G	Ant1	2412	-25.69	0.50	-25.19	≤8.00	PASS
		2437	-24.96	0.50	-24.46	≤8.00	PASS
		2462	-24.49	0.50	-23.99	≤8.00	PASS
11N20SISO	Ant1	2412	-25.82	0.53	-25.29	≤8.00	PASS
		2437	-25.84	0.53	-25.31	≤8.00	PASS
		2462	-25.32	0.53	-24.79	≤8.00	PASS

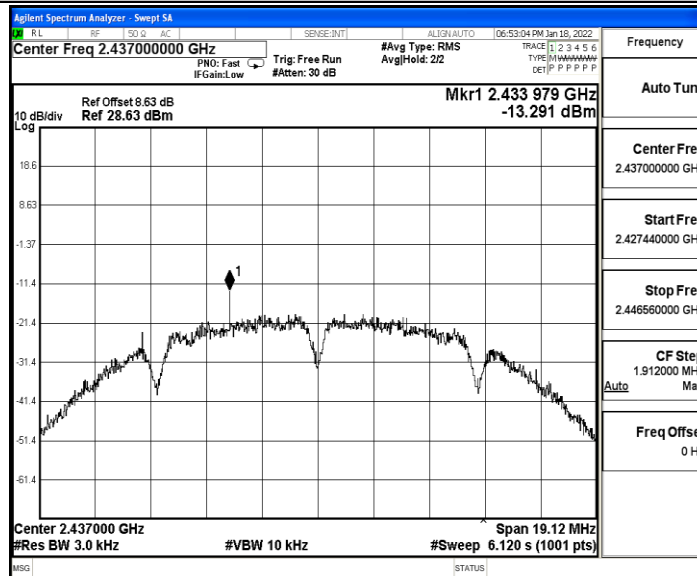


Test Graphs

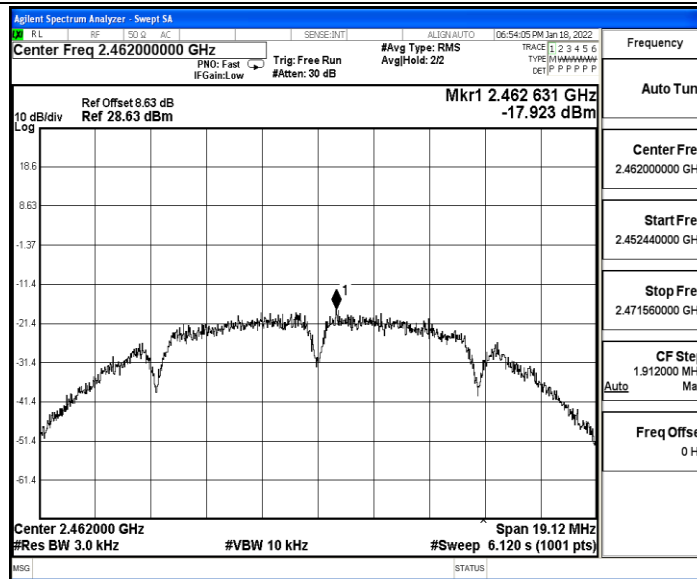
11B_Ant1_2412



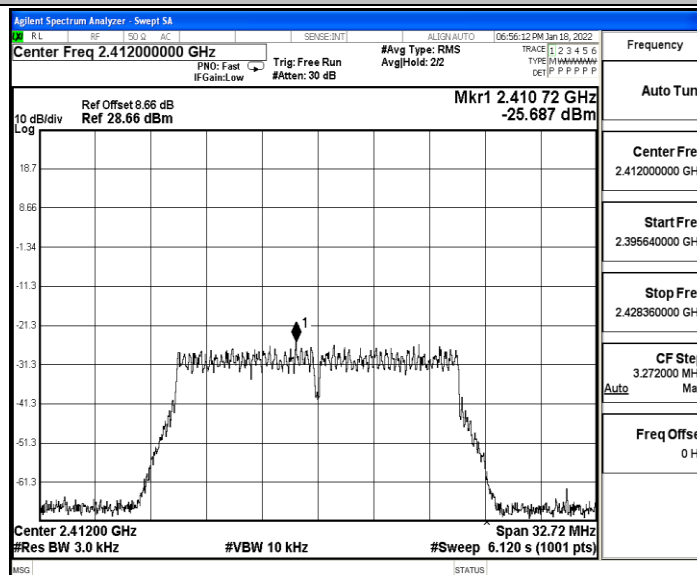
11B_Ant1_2437



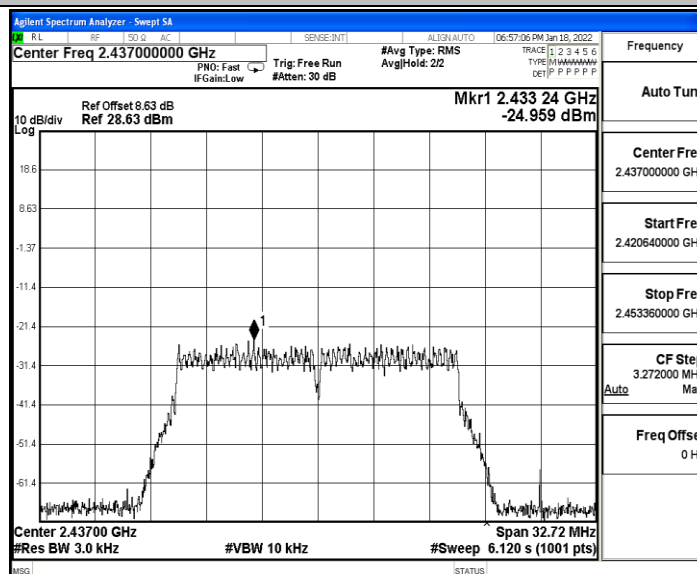
11B_Ant1_2462



11G_Ant1_2412

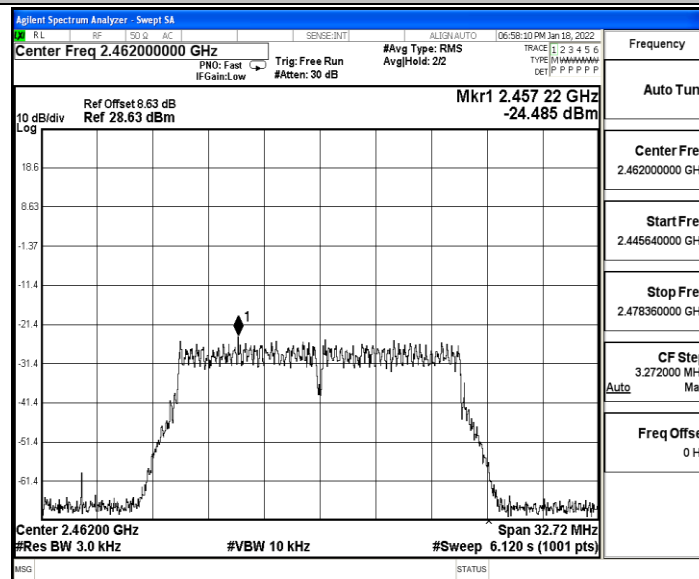


11G_Ant1_2437

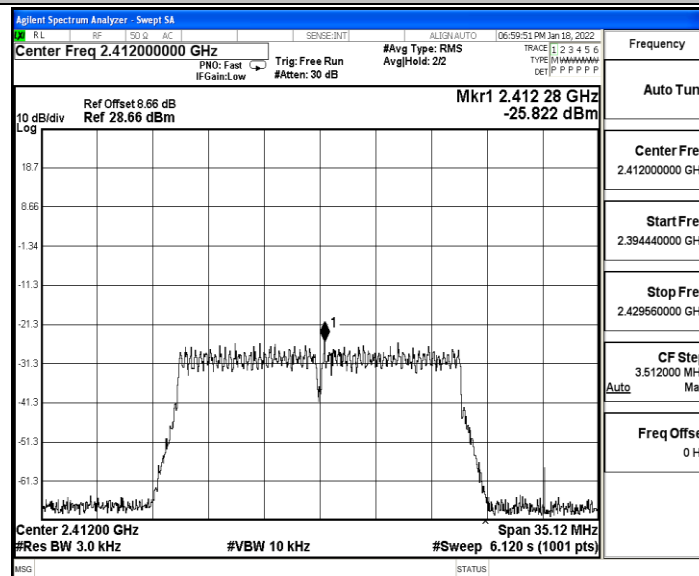




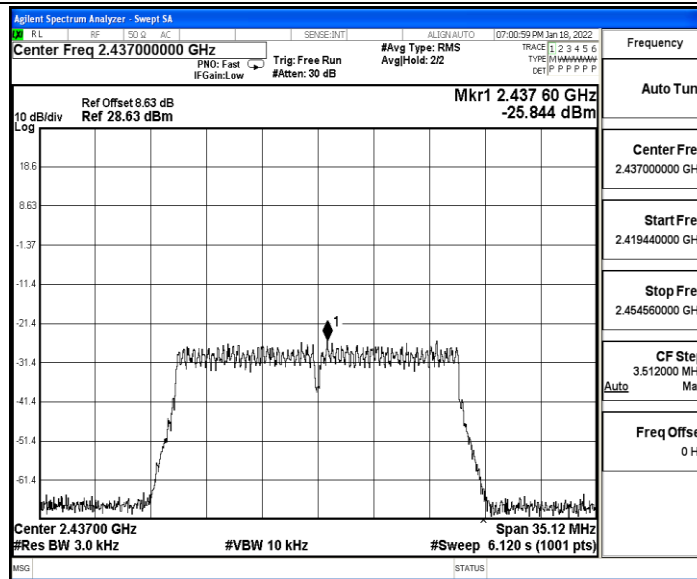
11G_Ant1_2462



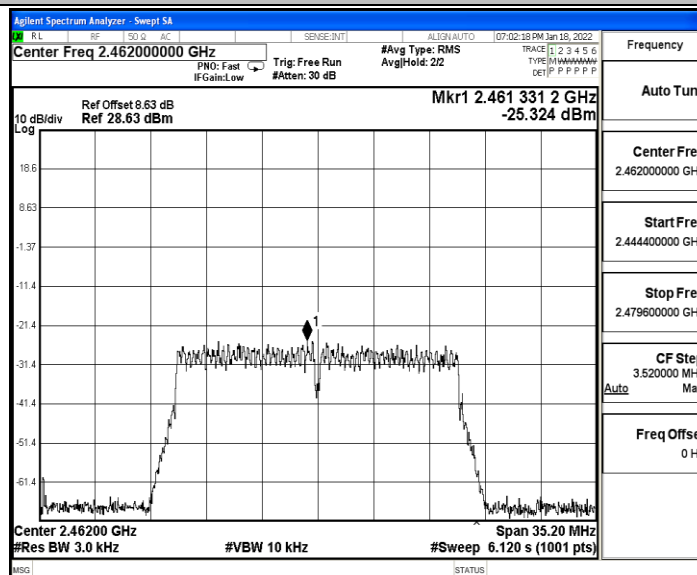
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



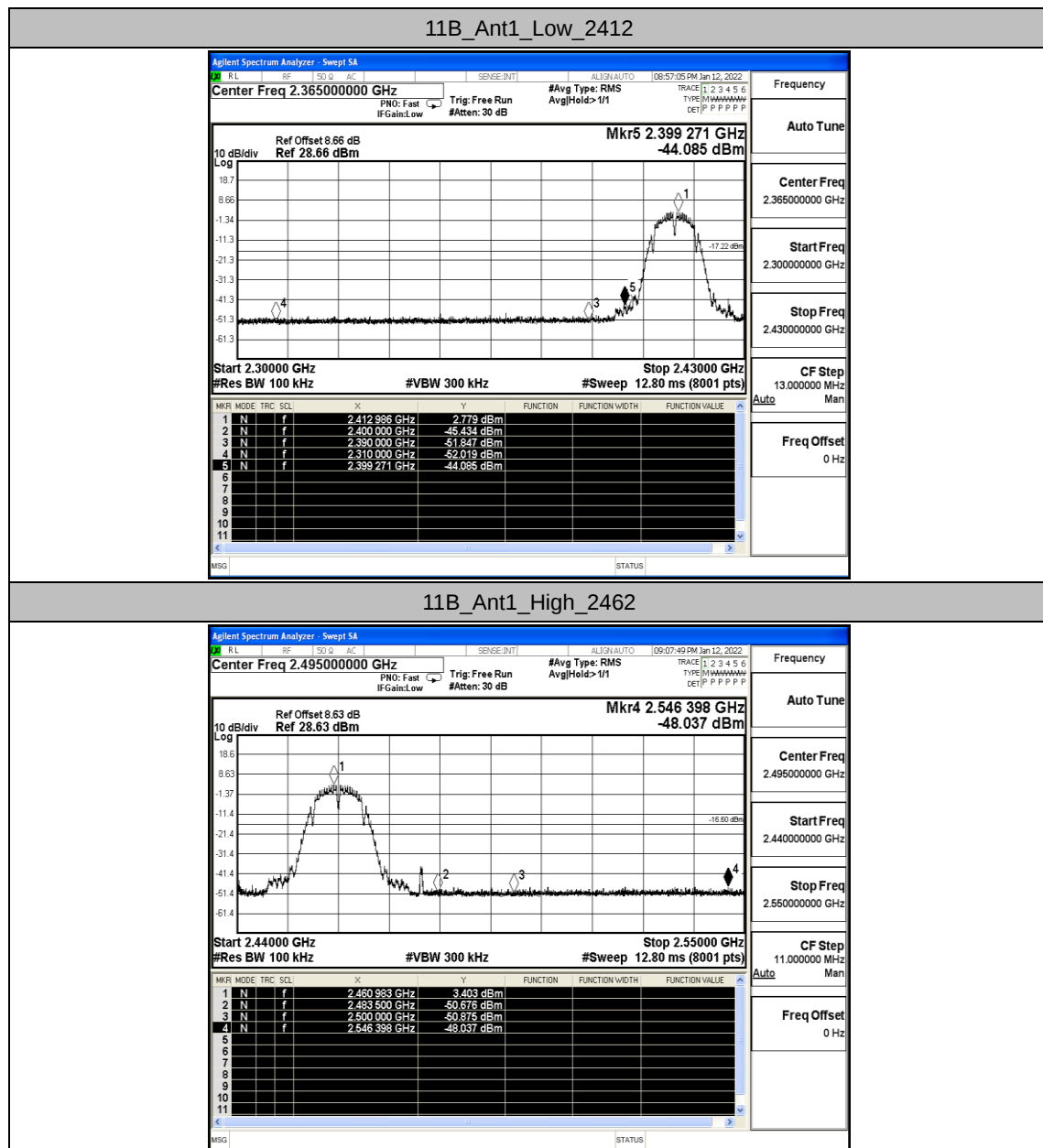


B.4 Band edge measurements

Test Result

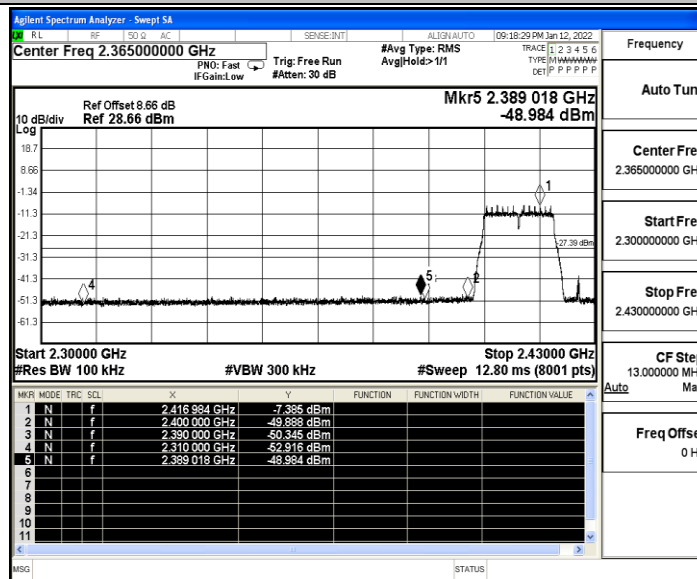
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.78	-44.09	≤ -17.22	PASS
		High	2462	3.40	-48.04	≤ -16.6	PASS
11G	Ant1	Low	2412	-7.39	-48.98	≤ -27.39	PASS
		High	2462	-6.34	-48.05	≤ -26.34	PASS
11N20SISO	Ant1	Low	2412	-6.77	-44.94	≤ -26.77	PASS
		High	2462	-6.86	-47.98	≤ -26.86	PASS

Test Graphs

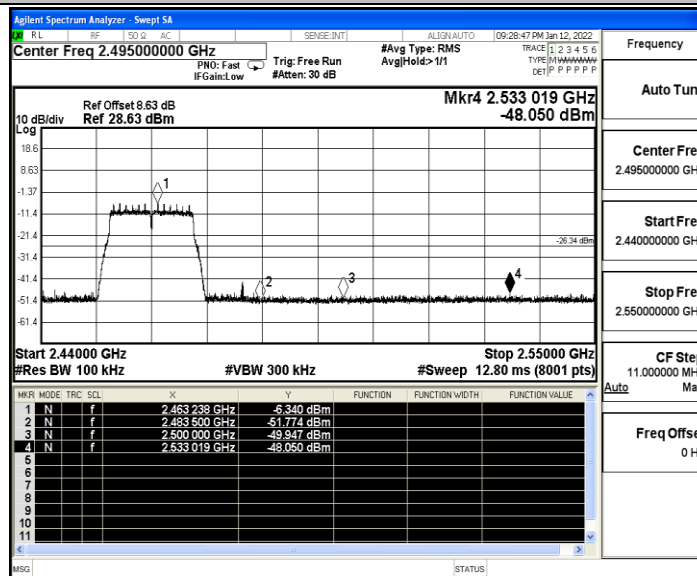




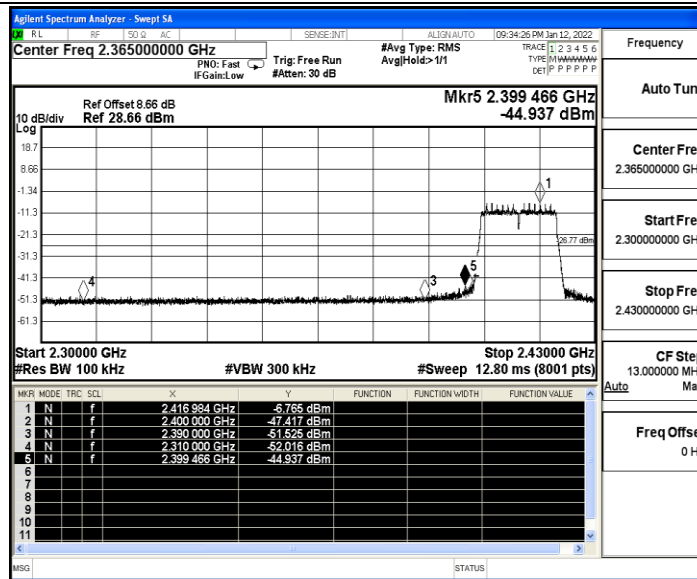
11G_Ant1_Low_2412



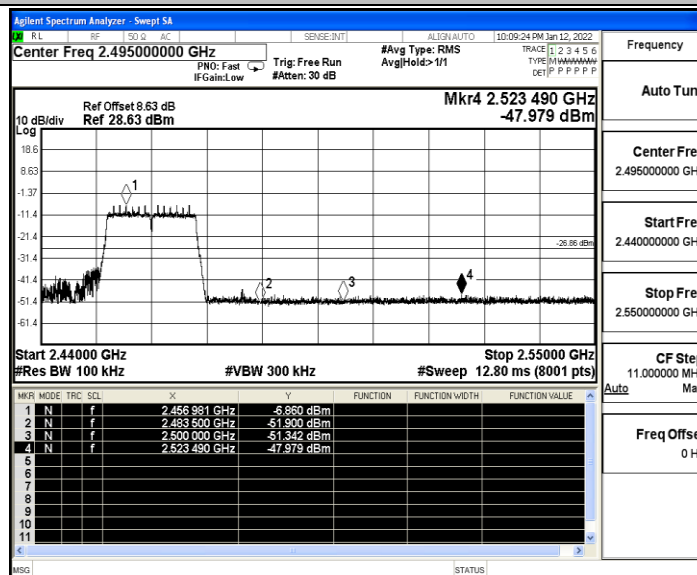
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462





B.5 Conducted Spurious Emission

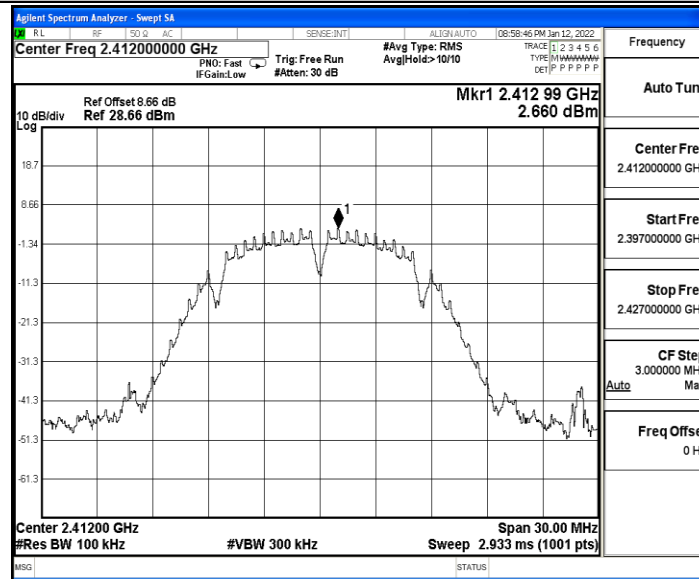
Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.66	2.66	---	PASS
			30~1000	2.66	-59.57	≤ -17.34	PASS
			1000~26500	2.66	-40.46	≤ -17.34	PASS
		2437	Reference	3.16	3.16	---	PASS
			30~1000	3.16	-61.02	≤ -16.84	PASS
			1000~26500	3.16	-37.6	≤ -16.84	PASS
		2462	Reference	3.28	3.28	---	PASS
			30~1000	3.28	-60.52	≤ -16.72	PASS
			1000~26500	3.28	-36.84	≤ -16.72	PASS
11G	Ant1	2412	Reference	-7.01	-7.01	---	PASS
			30~1000	-7.01	-60.61	≤ -27.01	PASS
			1000~26500	-7.01	-34.01	≤ -27.01	PASS
		2437	Reference	-6.42	-6.42	---	PASS
			30~1000	-6.42	-61.02	≤ -26.42	PASS
			1000~26500	-6.42	-41.81	≤ -26.42	PASS
		2462	Reference	-6.48	-6.48	---	PASS
			30~1000	-6.48	-60.66	≤ -26.48	PASS
			1000~26500	-6.48	-38.32	≤ -26.48	PASS
11N20SISO	Ant1	2412	Reference	-6.89	-6.89	---	PASS
			30~1000	-6.89	-61.18	≤ -26.89	PASS
			1000~26500	-6.89	-36.25	≤ -26.89	PASS
		2437	Reference	-6.02	-6.02	---	PASS
			30~1000	-6.02	-60.41	≤ -26.02	PASS
			1000~26500	-6.02	-33.06	≤ -26.02	PASS
		2462	Reference	-6.77	-6.77	---	PASS
			30~1000	-6.77	-60.85	≤ -26.77	PASS
			1000~26500	-6.77	-46.21	≤ -26.77	PASS

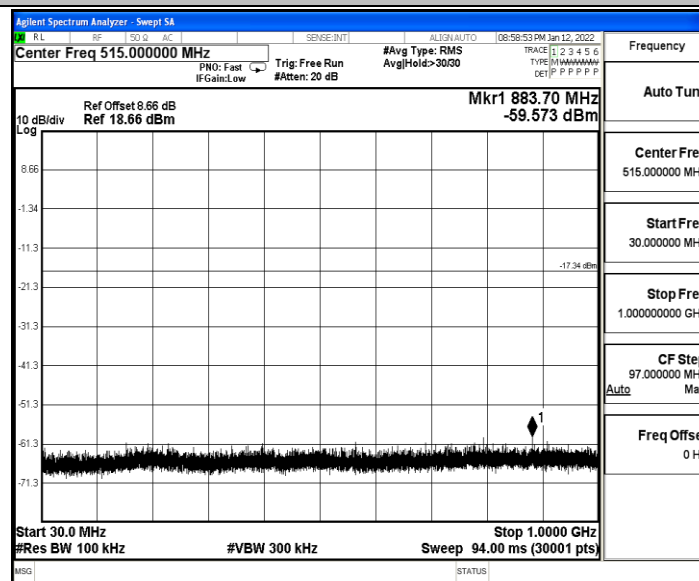


Test Graphs

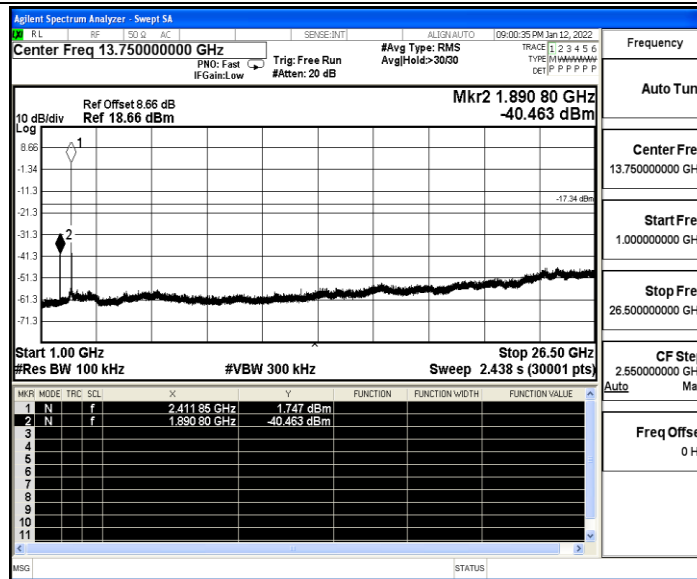
11B_Ant1_2412_0~Reference



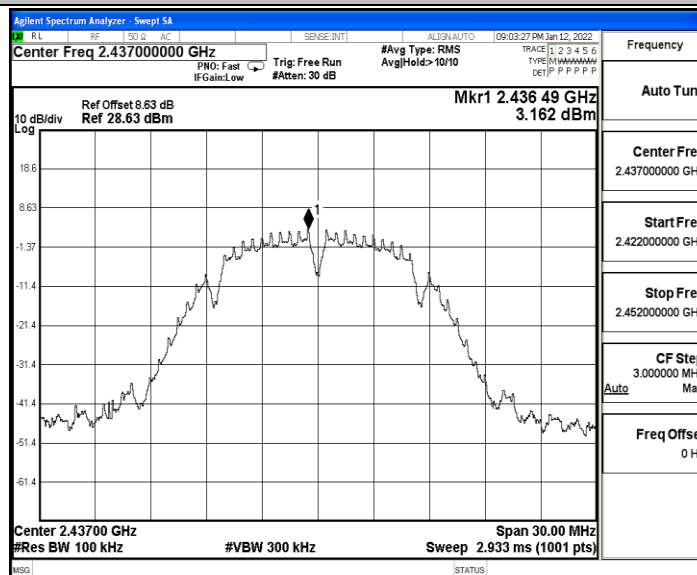
11B_Ant1_2412_30~1000



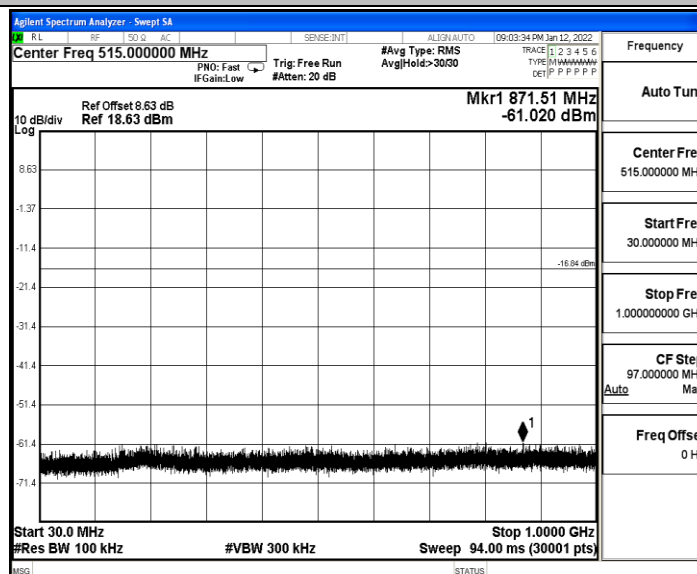
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference

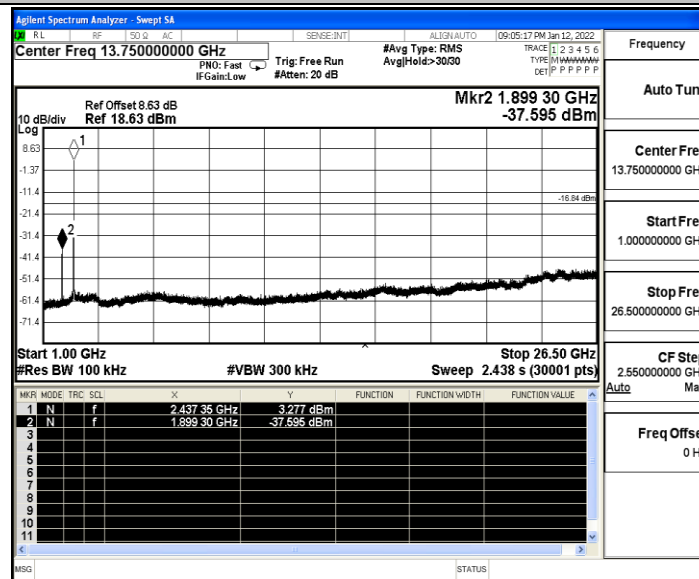


11B_Ant1_2437_30~1000

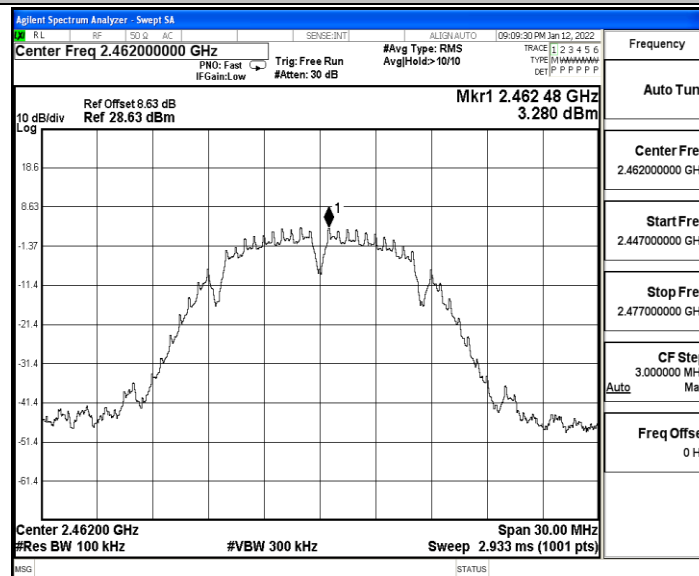




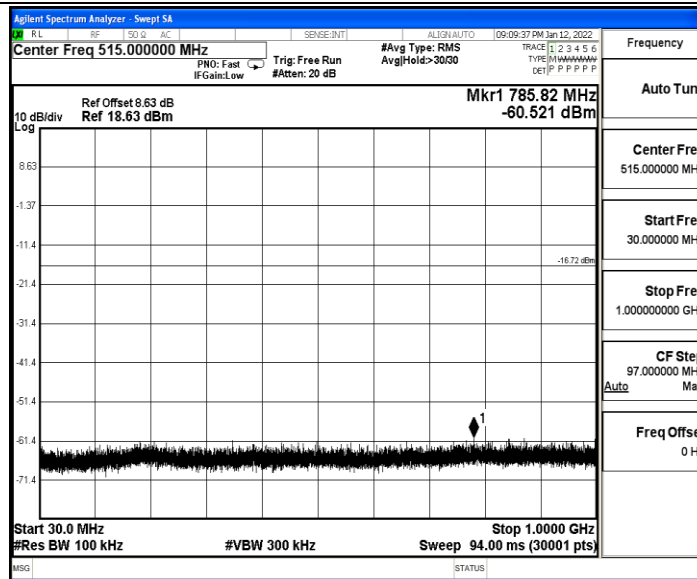
11B_Ant1_2437_1000~26500



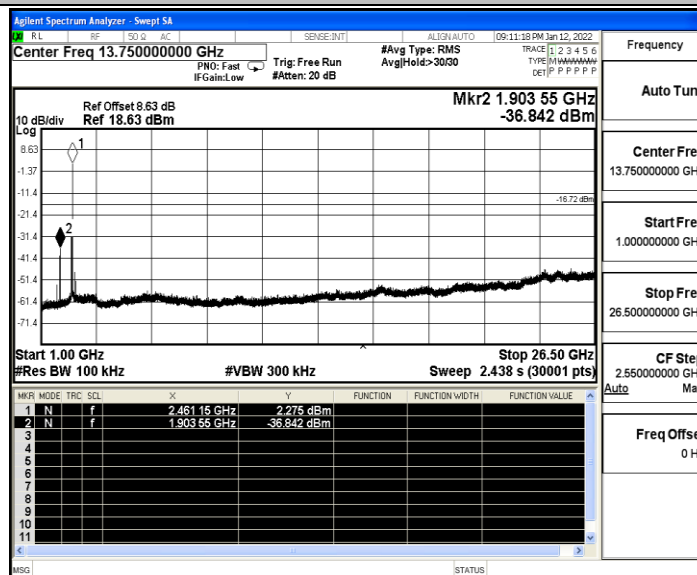
11B_Ant1_2462_0~Reference



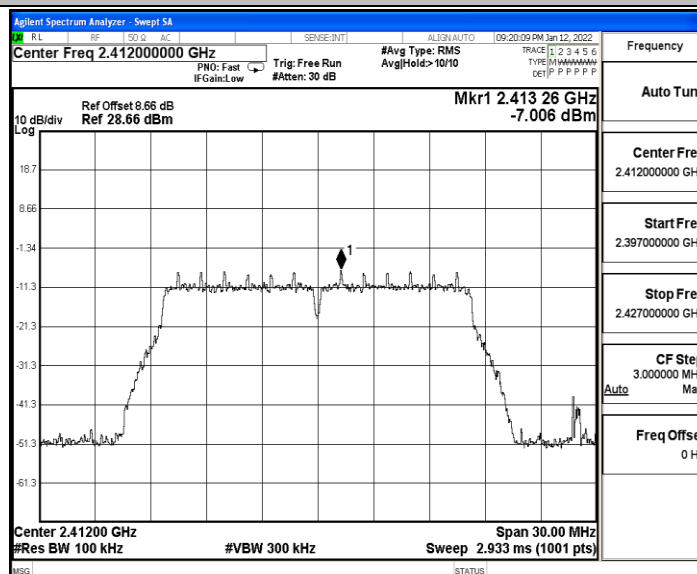
11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

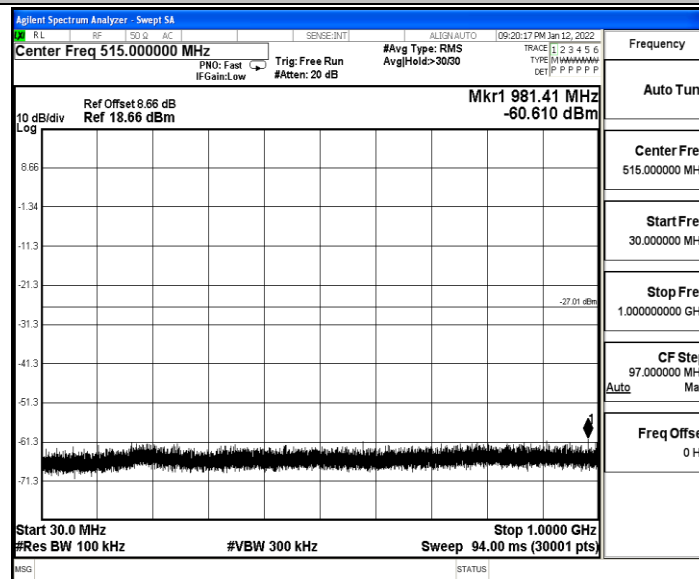


11G_Ant1_2412_0-Reference

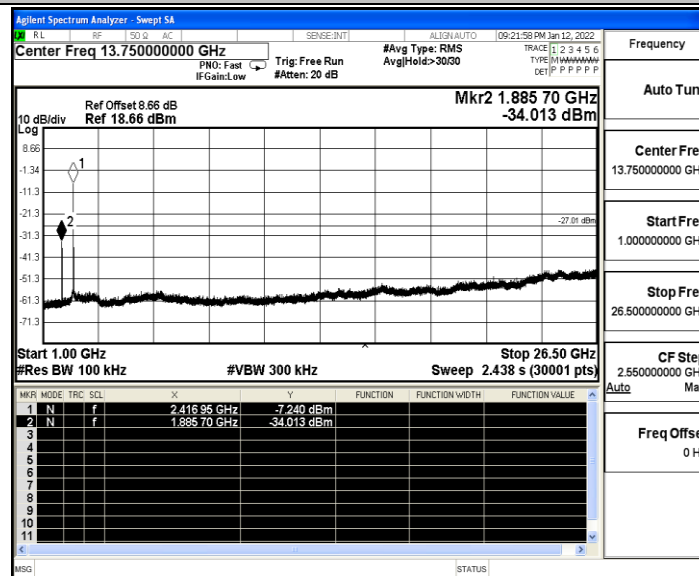




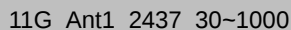
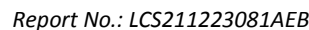
11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500

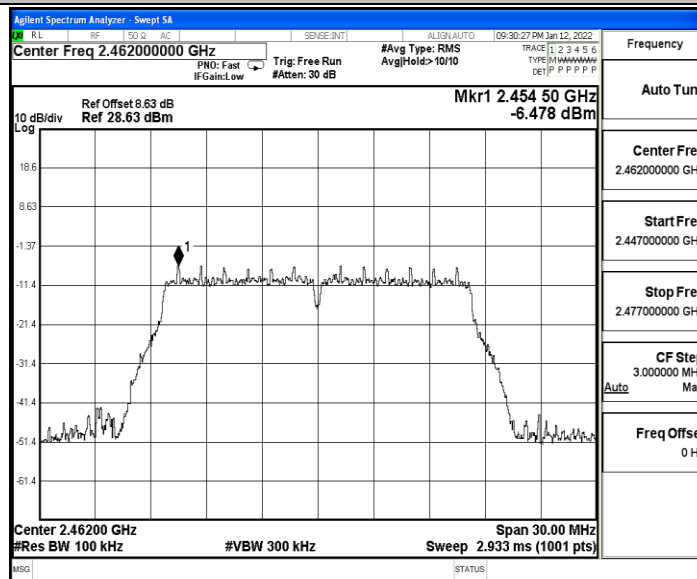


11G_Ant1_2437_0~Reference

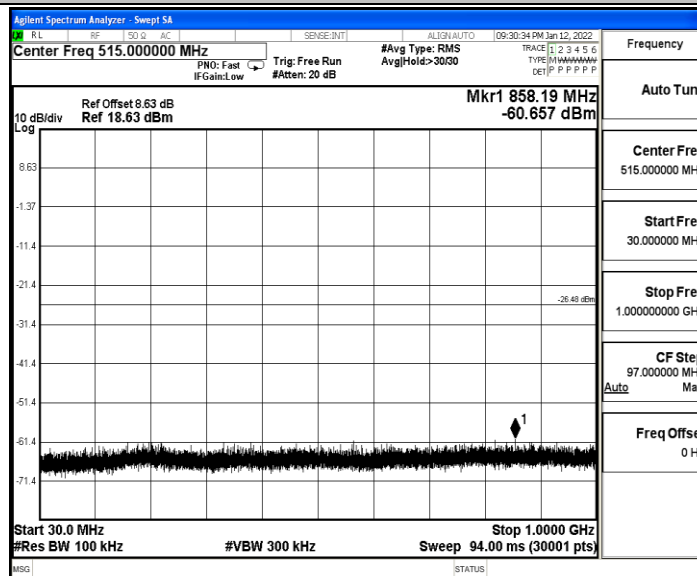




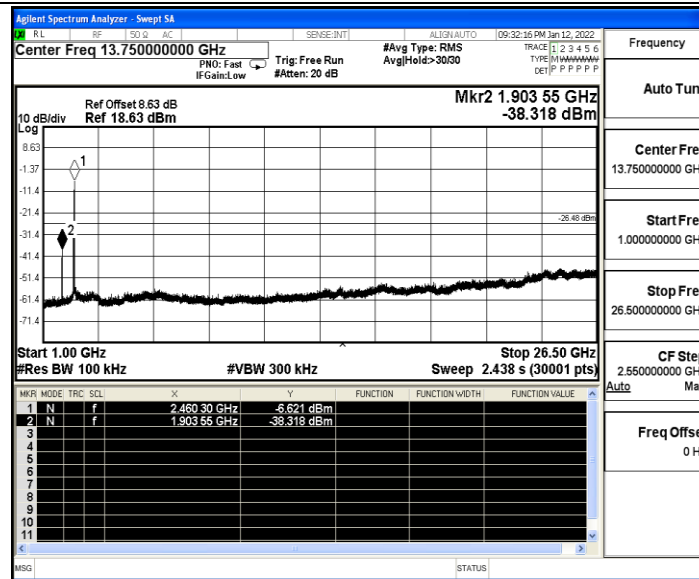
11G_Ant1_2462_0~Reference



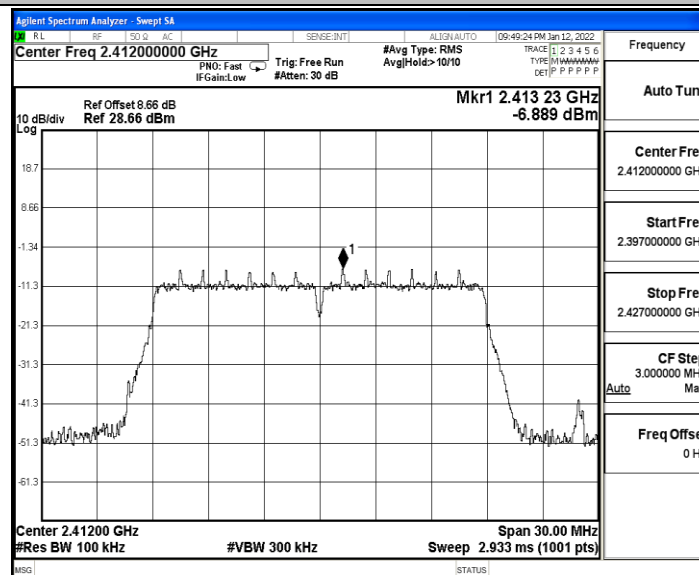
11G_Ant1_2462_30~1000



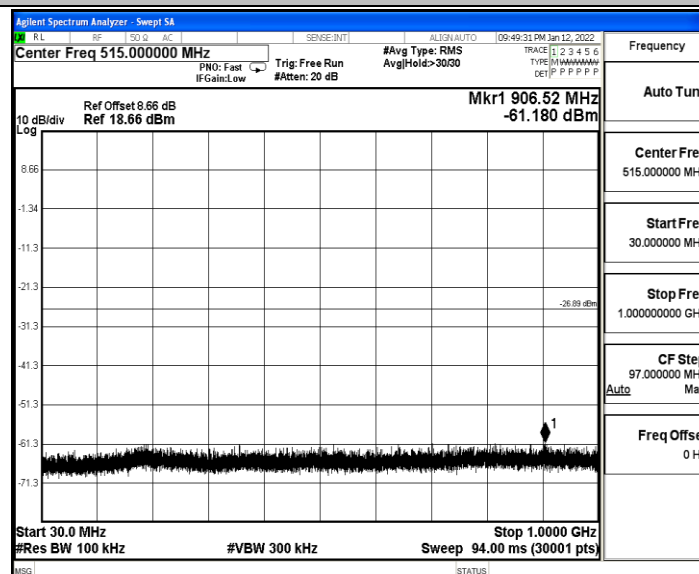
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference

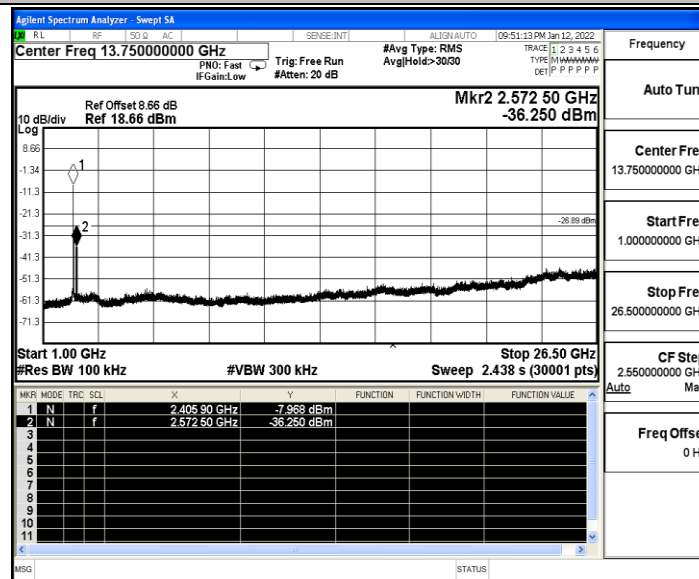


11N20SISO_Ant1_2412_30~1000

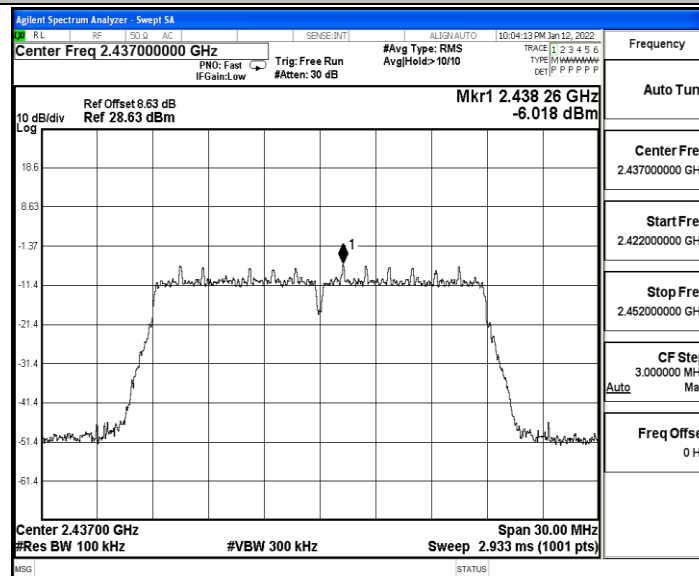




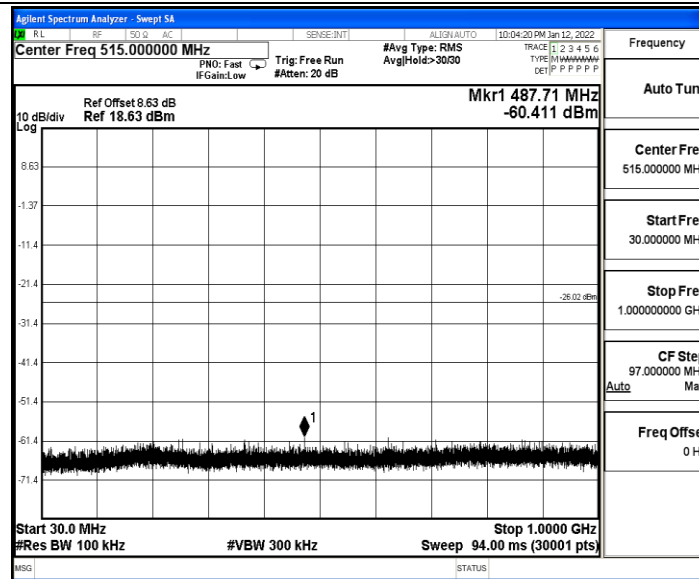
11N20SISO_Ant1_2412_1000~26500



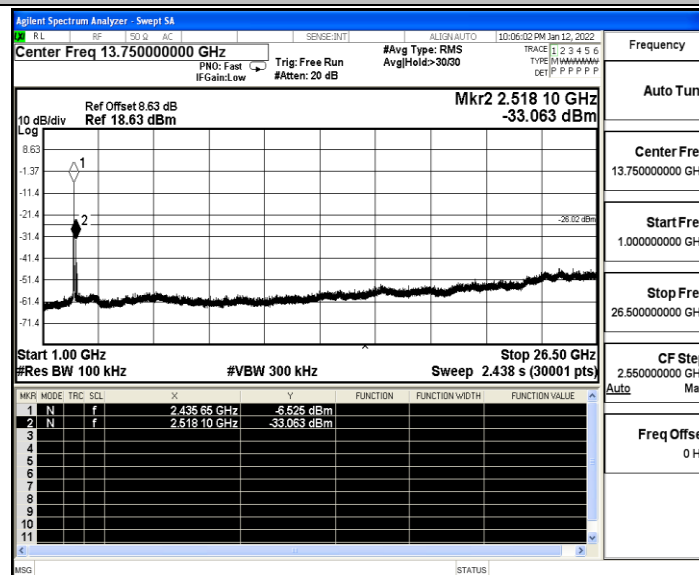
11N20SISO_Ant1_2437_0~Reference



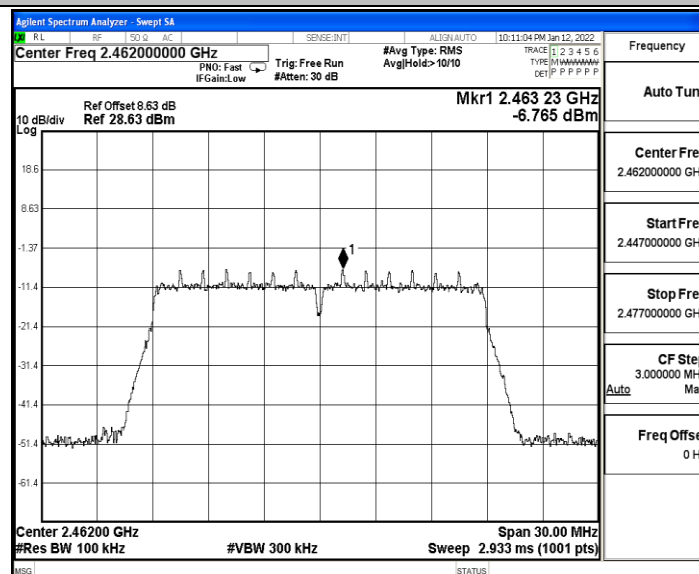
11N20SISO_Ant1_2437_30~1000



11N20SISO_Ant1_2437_1000~26500

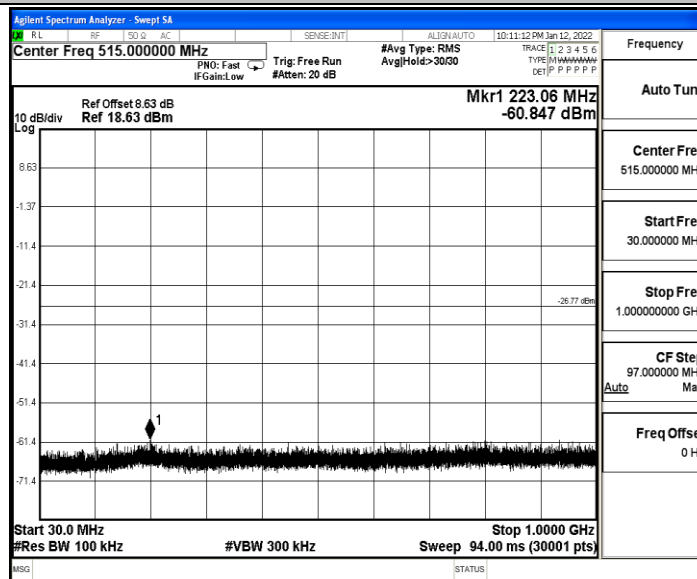


11N20SISO_Ant1_2462_0~Reference

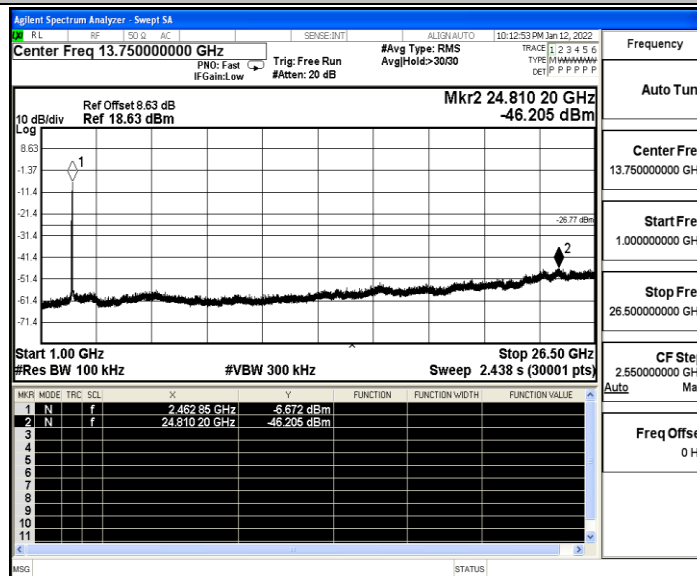




11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500





B.6 Duty Cycle

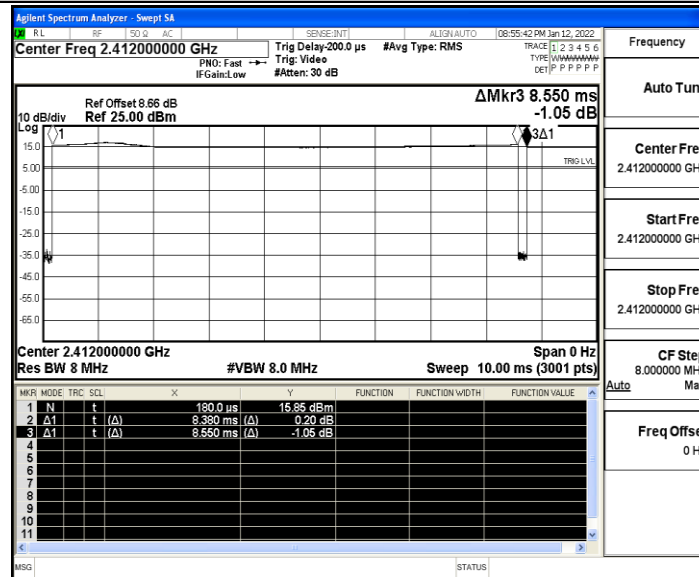
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.38	8.55	98.01	---	PASS
		2437	8.39	8.55	98.13	---	PASS
		2462	8.38	8.54	98.13	---	PASS
11G	Ant1	2412	1.40	1.57	89.17	---	PASS
		2437	1.39	1.56	89.10	---	PASS
		2462	1.39	1.56	89.10	---	PASS
11N20SISO	Ant1	2412	1.30	1.47	88.44	---	PASS
		2437	1.30	1.47	88.44	---	PASS
		2462	1.30	1.47	88.44	---	PASS

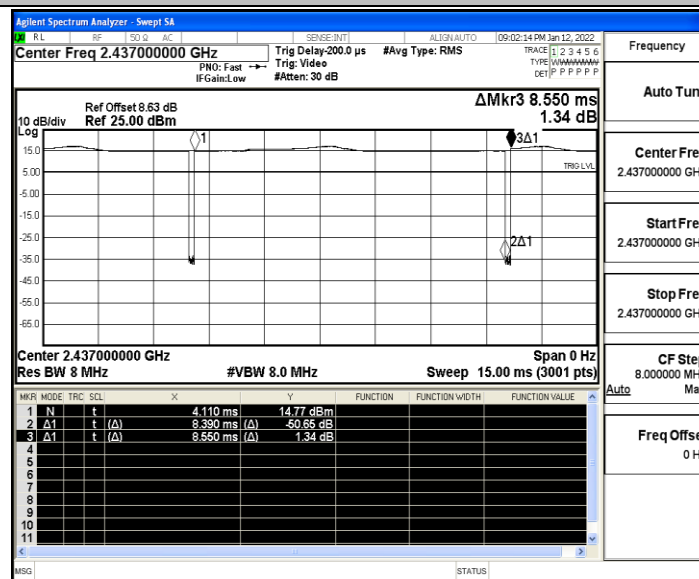


Test Graphs

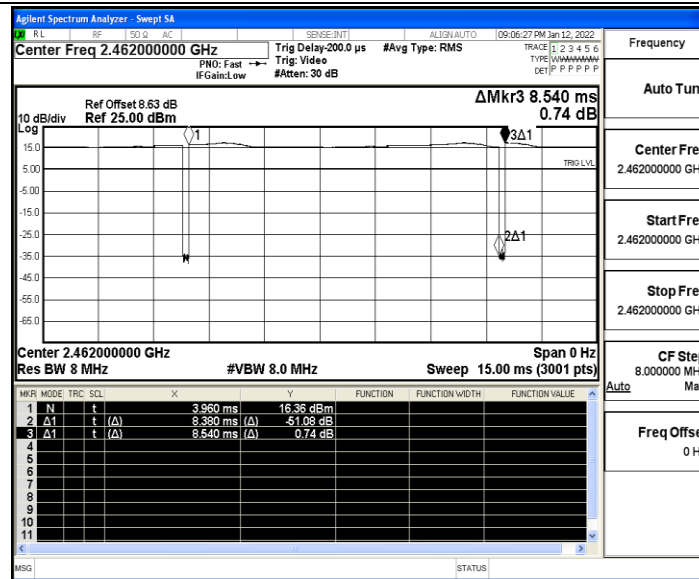
11B_Ant1_2412



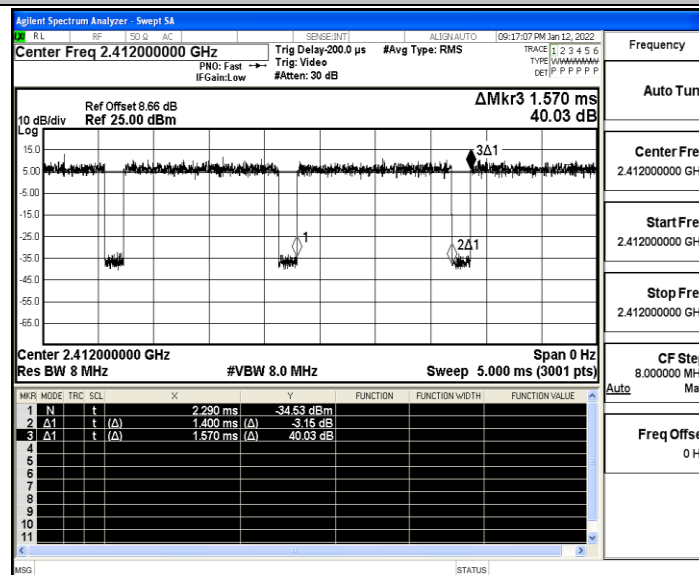
11B_Ant1_2437



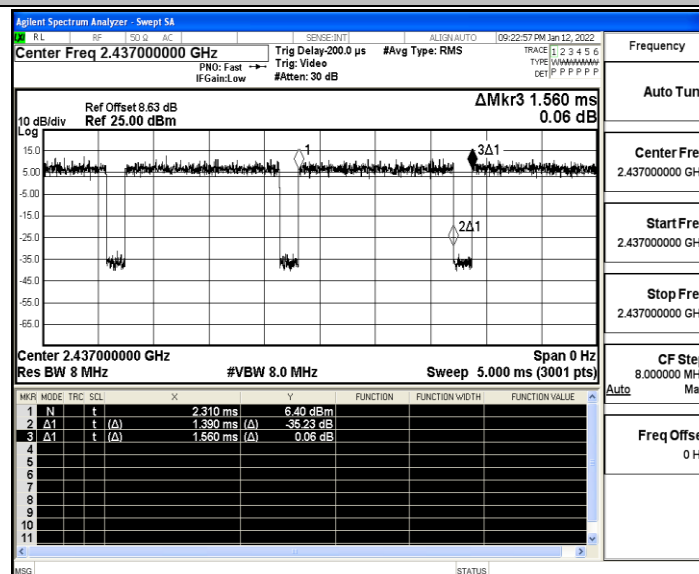
11B_Ant1_2462



11G_Ant1_2412

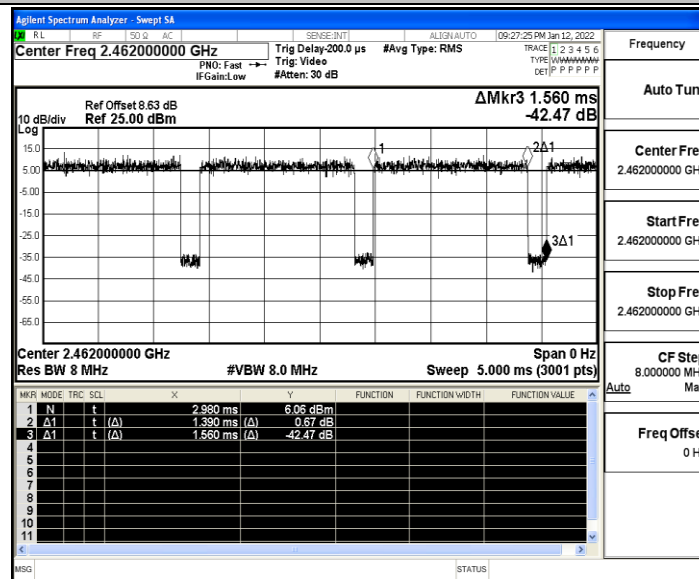


11G_Ant1_2437

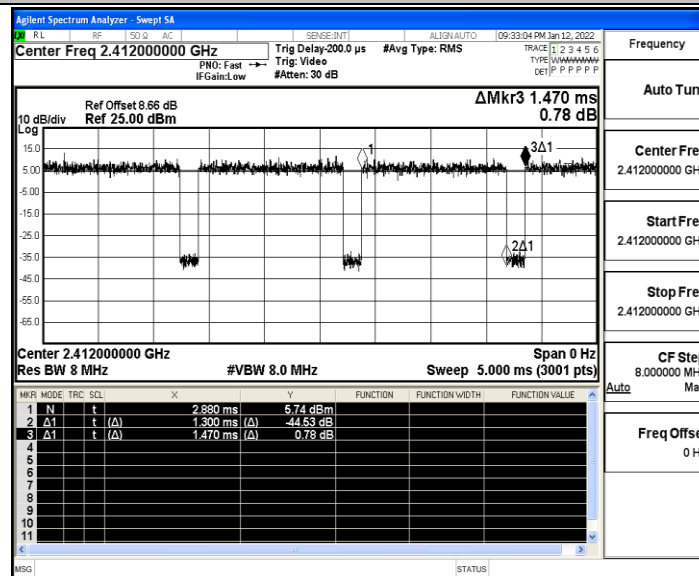




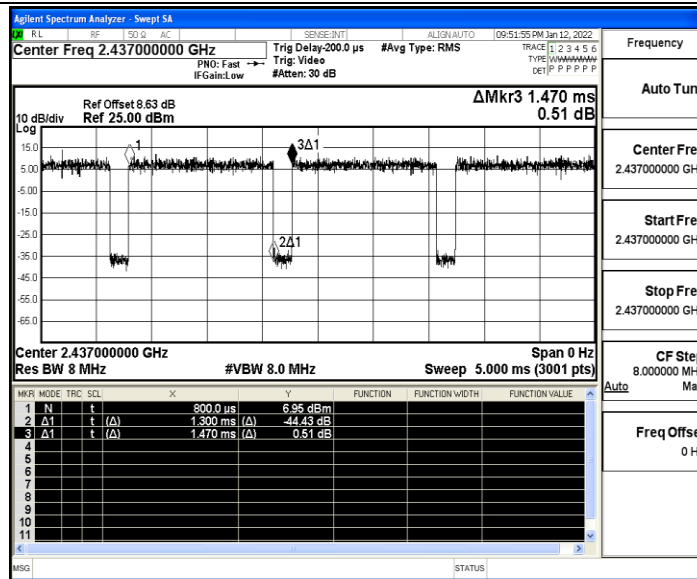
11G_Ant1_2462



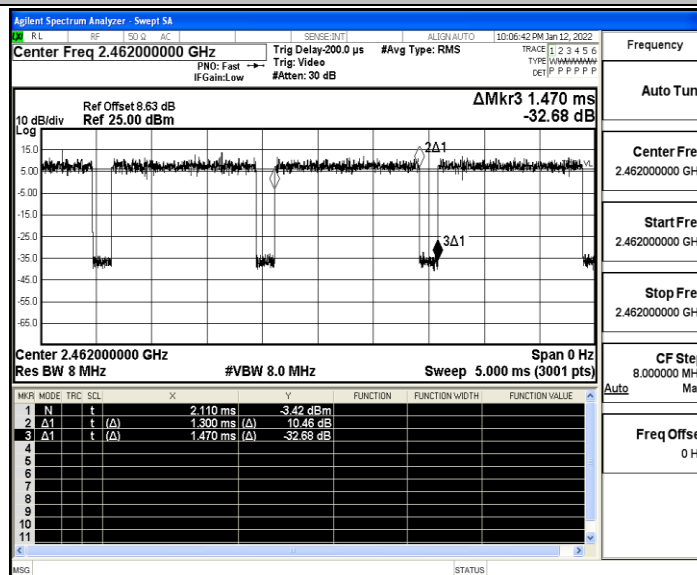
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462





B.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	-49.03	≤-41.20	46.17	≤54	PASS
				AV	2387.490	-48.28	≤-41.20	46.92	≤54	PASS
				AV	2390.000	-48.28	≤-41.20	46.92	≤54	PASS
				Peak	2310.000	-38.85	≤-21.20	56.35	≤74	PASS
				Peak	2382.680	-36.08	≤-21.20	59.12	≤74	PASS
				Peak	2390.000	-37.62	≤-21.20	57.58	≤74	PASS
		High	2462	AV	2483.500	-47.95	≤-41.20	47.25	≤54	PASS
				AV	2487.850	-47.56	≤-41.20	47.64	≤54	PASS
				AV	2500.000	-47.87	≤-41.20	47.33	≤54	PASS
				Peak	2483.500	-37.34	≤-21.20	57.86	≤74	PASS
				Peak	2488.290	-35.87	≤-21.20	59.33	≤74	PASS
				Peak	2500.000	-37.33	≤-21.20	57.87	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-48.59	≤-41.20	46.61	≤54	PASS
				AV	2388.400	-47.79	≤-41.20	47.41	≤54	PASS
				AV	2390.000	-47.81	≤-41.20	47.39	≤54	PASS
				Peak	2310.000	-38.65	≤-21.20	56.55	≤74	PASS
				Peak	2386.320	-36.14	≤-21.20	59.06	≤74	PASS
				Peak	2390.000	-37.91	≤-21.20	57.29	≤74	PASS
		High	2462	AV	2483.500	-47.32	≤-41.20	47.88	≤54	PASS
				AV	2495.990	-47.18	≤-41.20	48.02	≤54	PASS
				AV	2500.000	-47.46	≤-41.20	47.74	≤54	PASS
				Peak	2483.500	-36.24	≤-21.20	58.96	≤74	PASS
				Peak	2499.070	-36.14	≤-21.20	59.06	≤74	PASS
				Peak	2500.000	-36.82	≤-21.20	58.38	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-48.59	≤-41.20	46.61	≤54	PASS
				AV	2388.790	-47.57	≤-41.20	47.63	≤54	PASS
				AV	2390.000	-47.73	≤-41.20	47.47	≤54	PASS
				Peak	2310.000	-38.48	≤-21.20	56.72	≤74	PASS
				Peak	2388.140	-36.38	≤-21.20	58.82	≤74	PASS
				Peak	2390.000	-36.9	≤-21.20	58.30	≤74	PASS
		High	2462	AV	2483.500	-47.3	≤-41.20	47.90	≤54	PASS
				AV	2483.670	-47.3	≤-41.20	47.90	≤54	PASS
				AV	2500.000	-47.32	≤-41.20	47.88	≤54	PASS
				Peak	2483.500	-36.22	≤-21.20	58.98	≤74	PASS
				Peak	2491.810	-35.78	≤-21.20	59.42	≤74	PASS
				Peak	2500.000	-37.77	≤-21.20	57.43	≤74	PASS



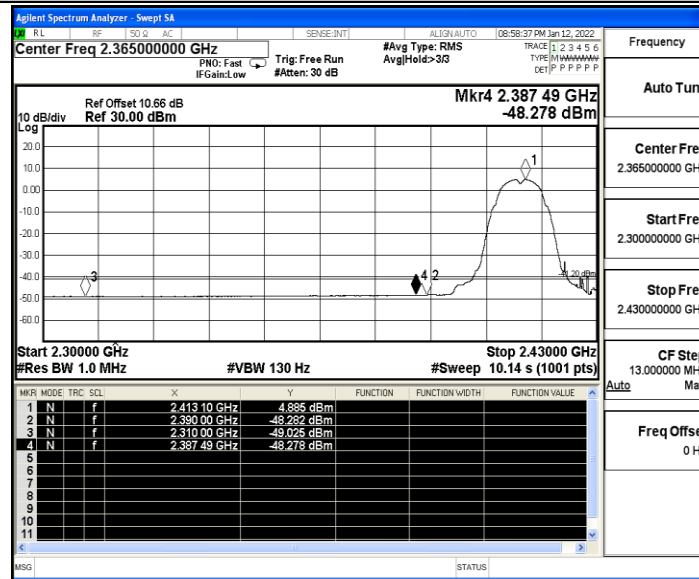
Note:

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.

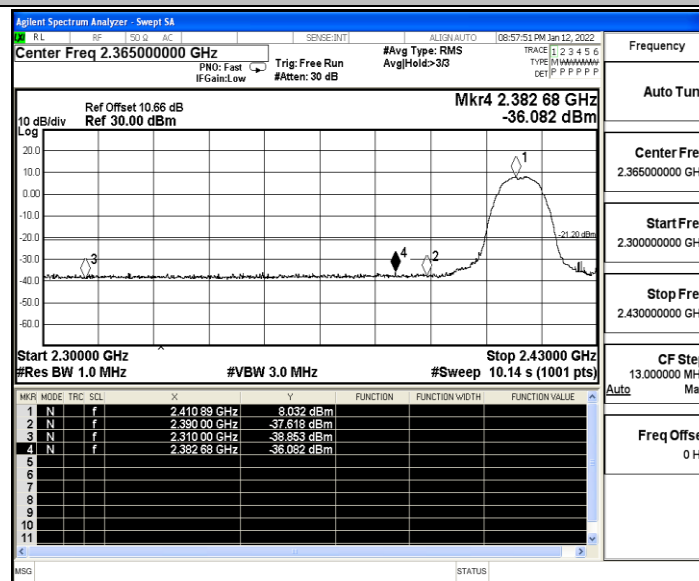


Test Graphs

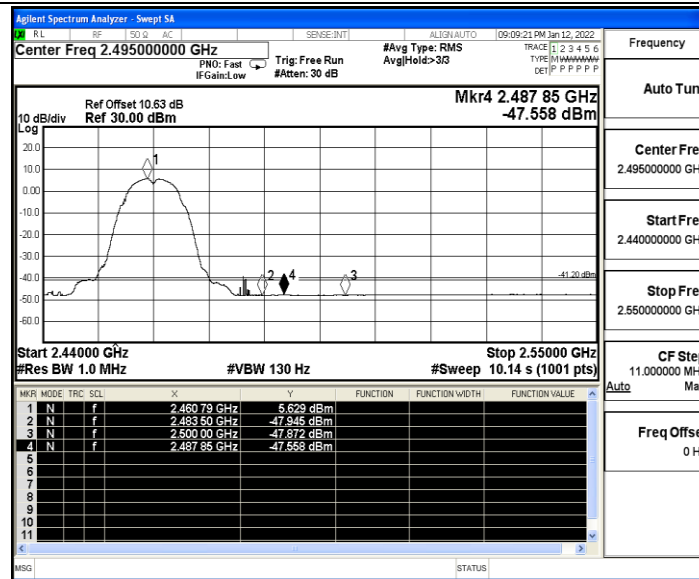
11B_Ant1_Low_2412_AV



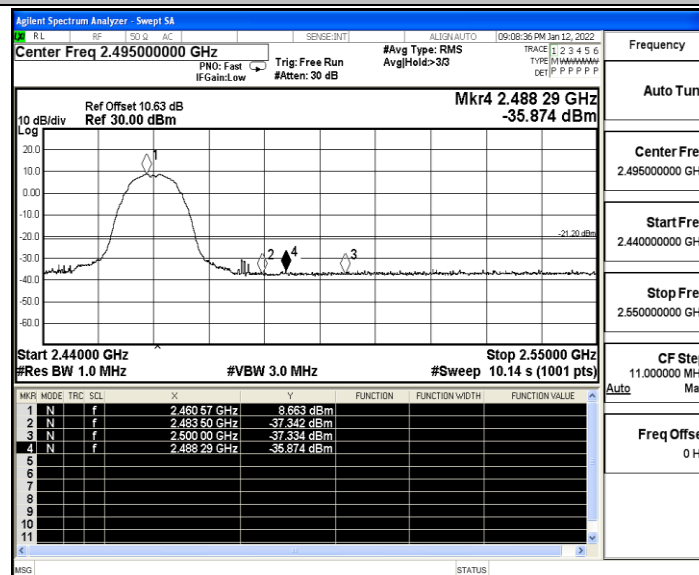
11B_Ant1_Low_2412_Peak



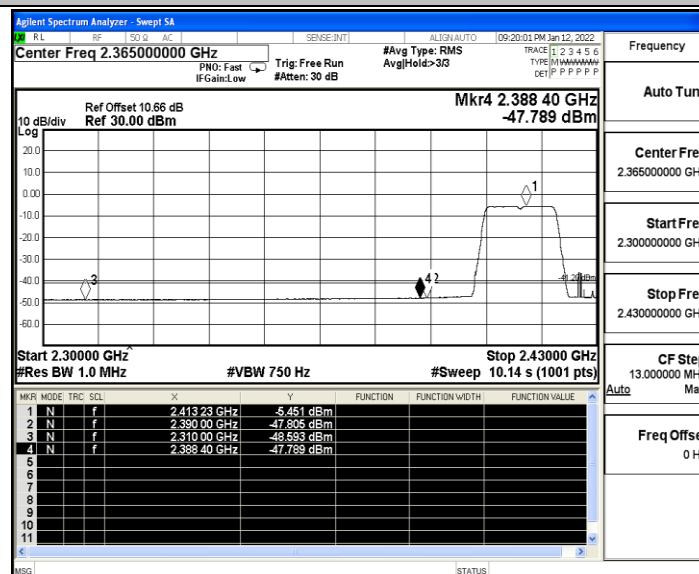
11B_Ant1_High_2462_AV



11B_Ant1_High_2462_Peak

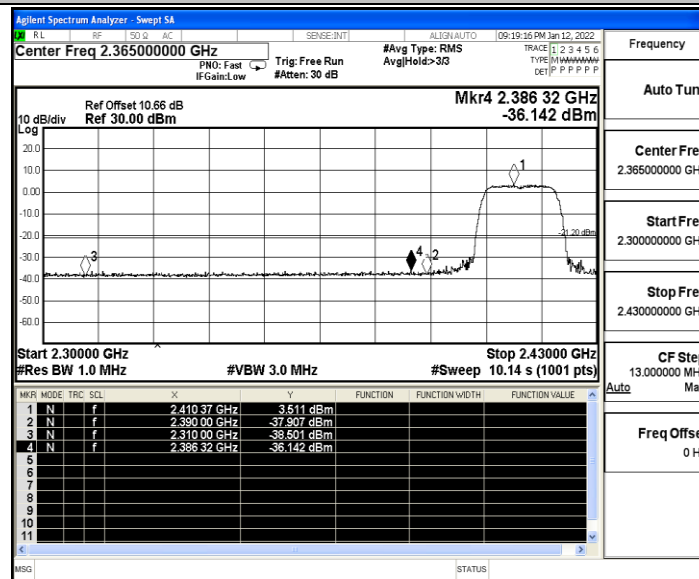


11G_Ant1_Low_2412_AV

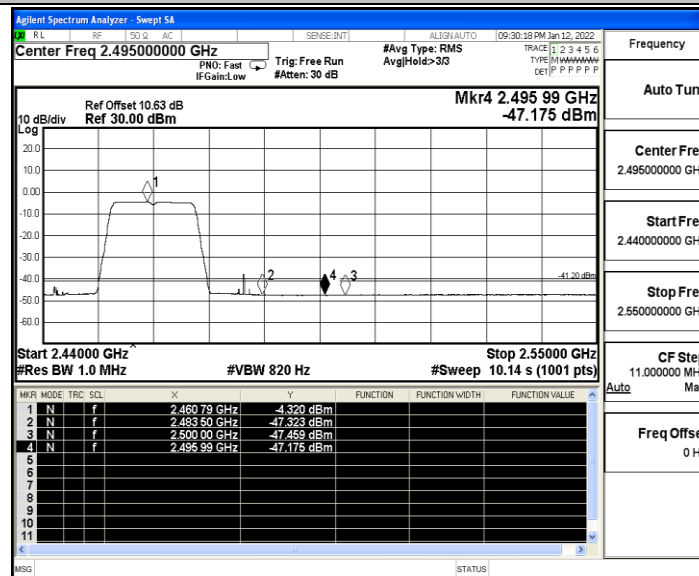




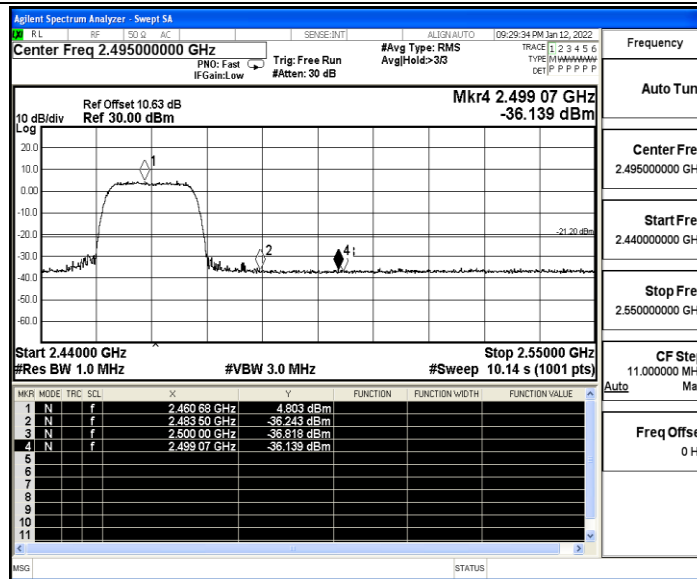
11G_Ant1_Low_2412_Peak



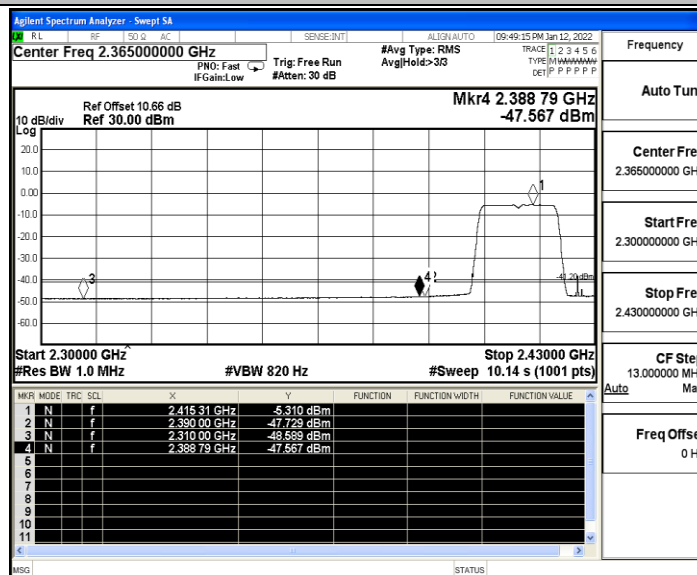
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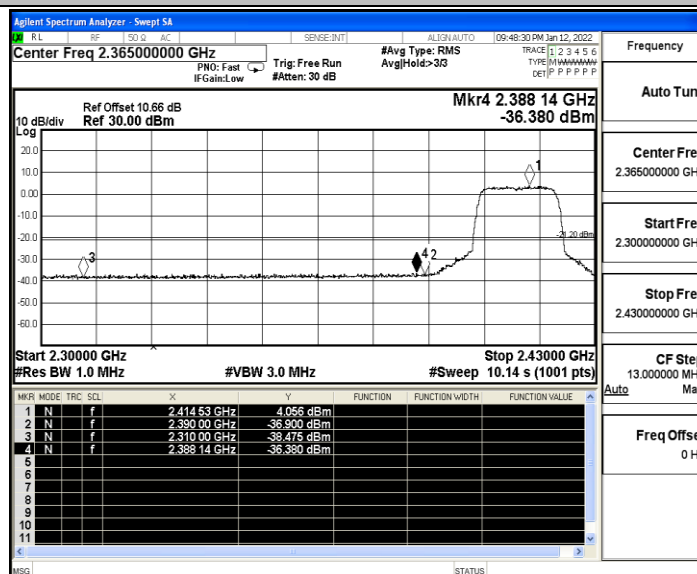
11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV

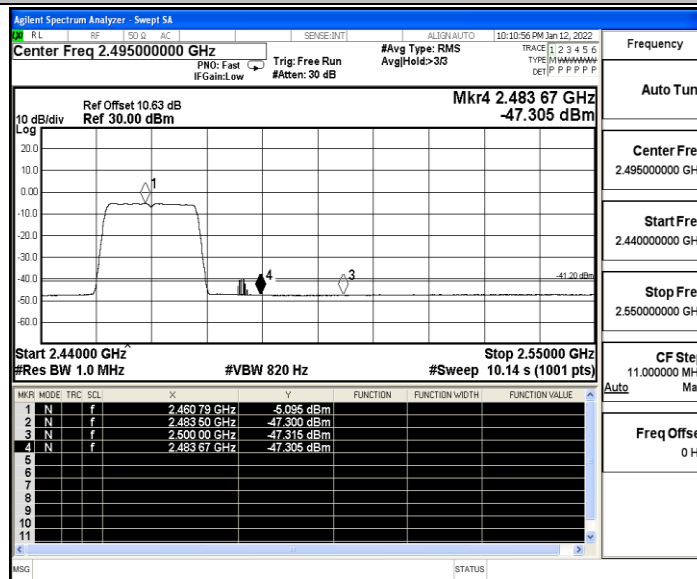


11N20SISO_Ant1_Low_2412_Peak





11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak

