

<b>Case No. :</b> <u>GTS20231113015-1-1</u>
<b>Ambient Condition:</b> <u>23</u> °C, <u>48</u> %RH,
<b>Test Date:</b> <u>2024.1.11</u> <b>Test Engineer:</b> <u>Evan ouyang</u>

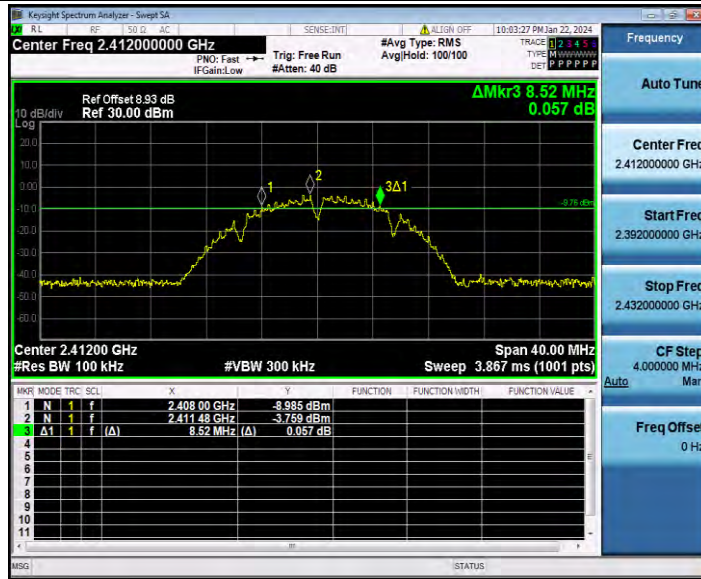
## Appendix A.1: DTS Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.520	2408.000	2416.520	0.5	PASS
		2437	8.080	2432.480	2440.560	0.5	PASS
		2462	7.000	2458.480	2465.480	0.5	PASS
11G	Ant1	2412	16.480	2403.840	2420.320	0.5	PASS
		2437	16.040	2428.720	2444.760	0.5	PASS
		2462	12.840	2455.400	2468.240	0.5	PASS
11N20SISO	Ant1	2412	17.680	2403.240	2420.920	0.5	PASS
		2437	17.440	2428.080	2445.520	0.5	PASS
		2462	12.920	2455.360	2468.280	0.5	PASS

## Test Graphs

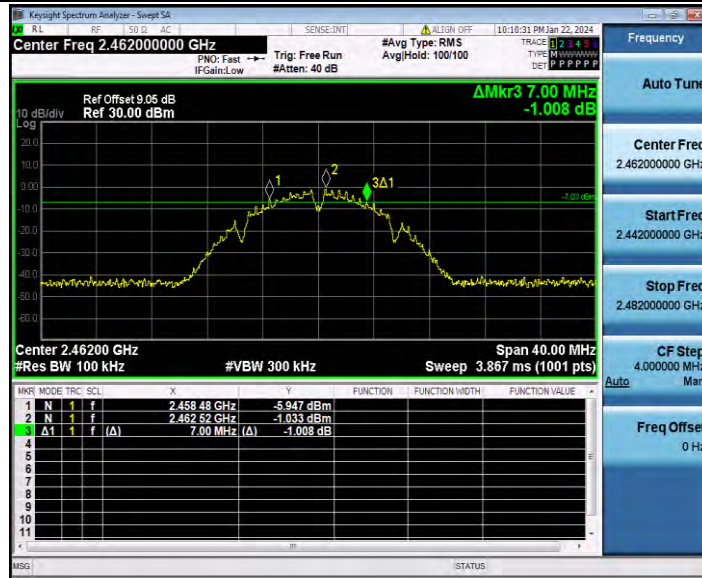
11B\_Ant1\_2412



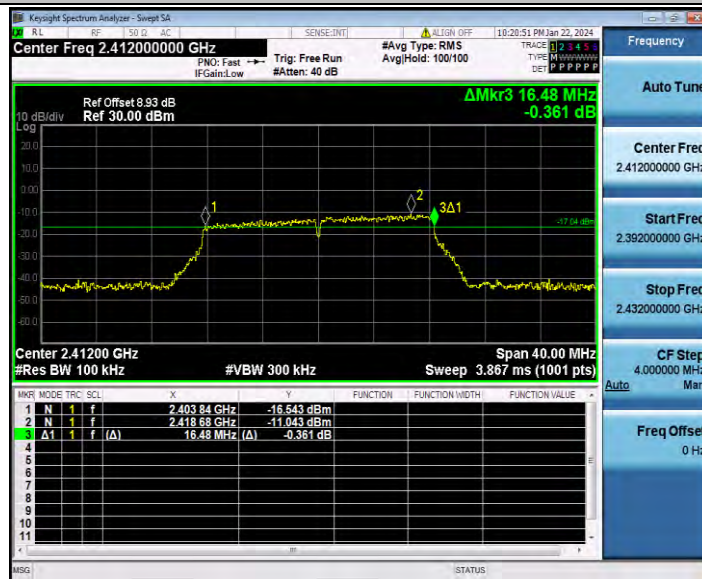
11B\_Ant1\_2437



11B\_Ant1\_2462



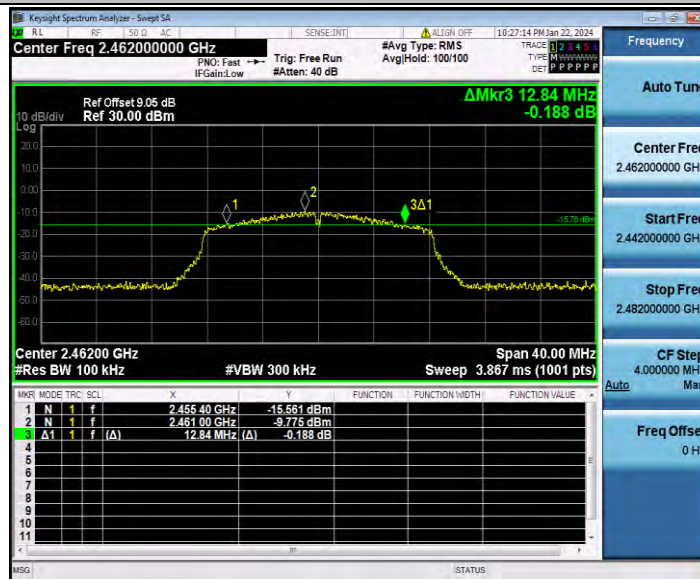
11G\_Ant1\_2412



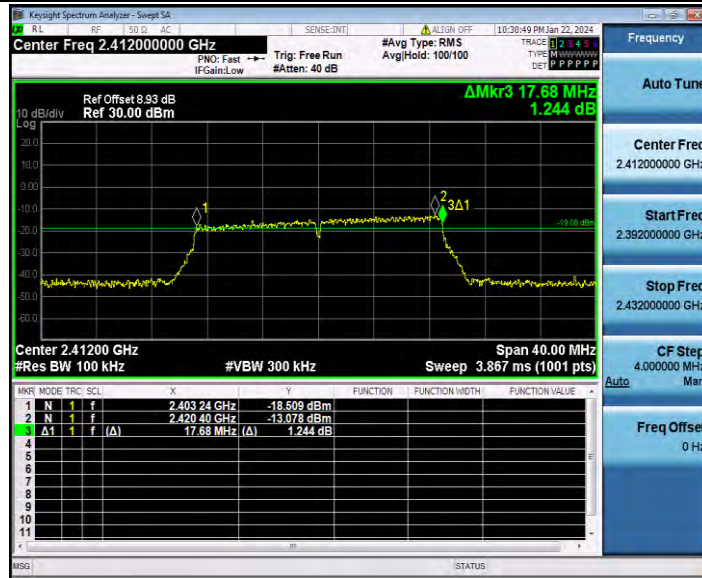
11G\_Ant1\_2437



11G\_Ant1\_2462

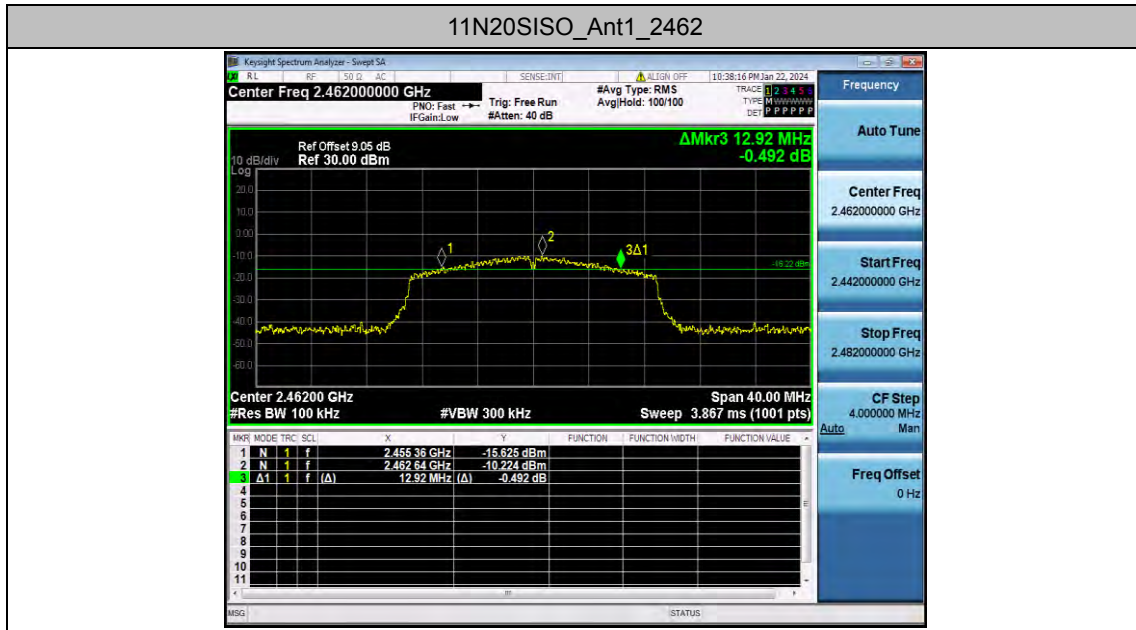


11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437



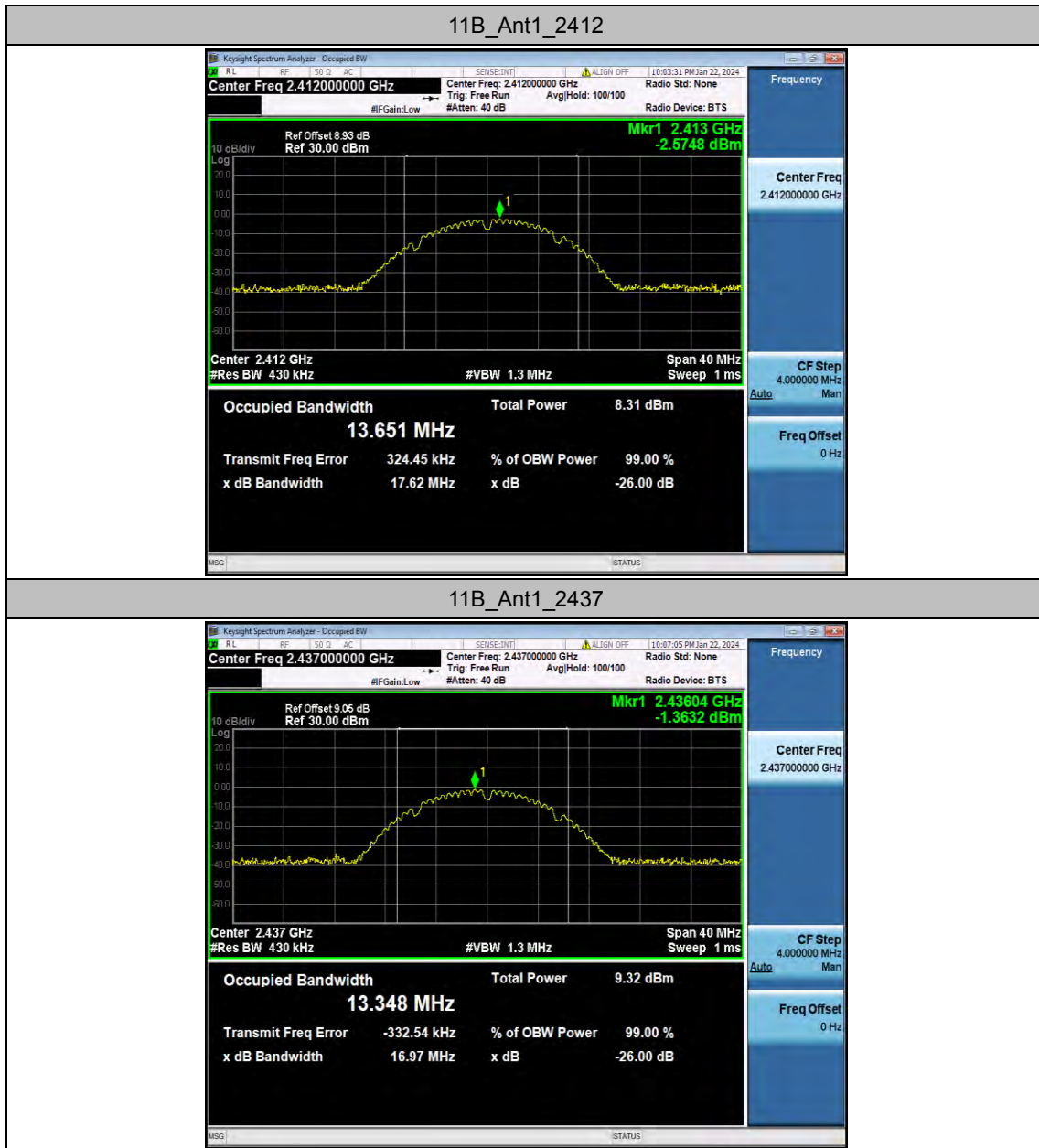


## Appendix A.2: Occupied Channel Bandwidth

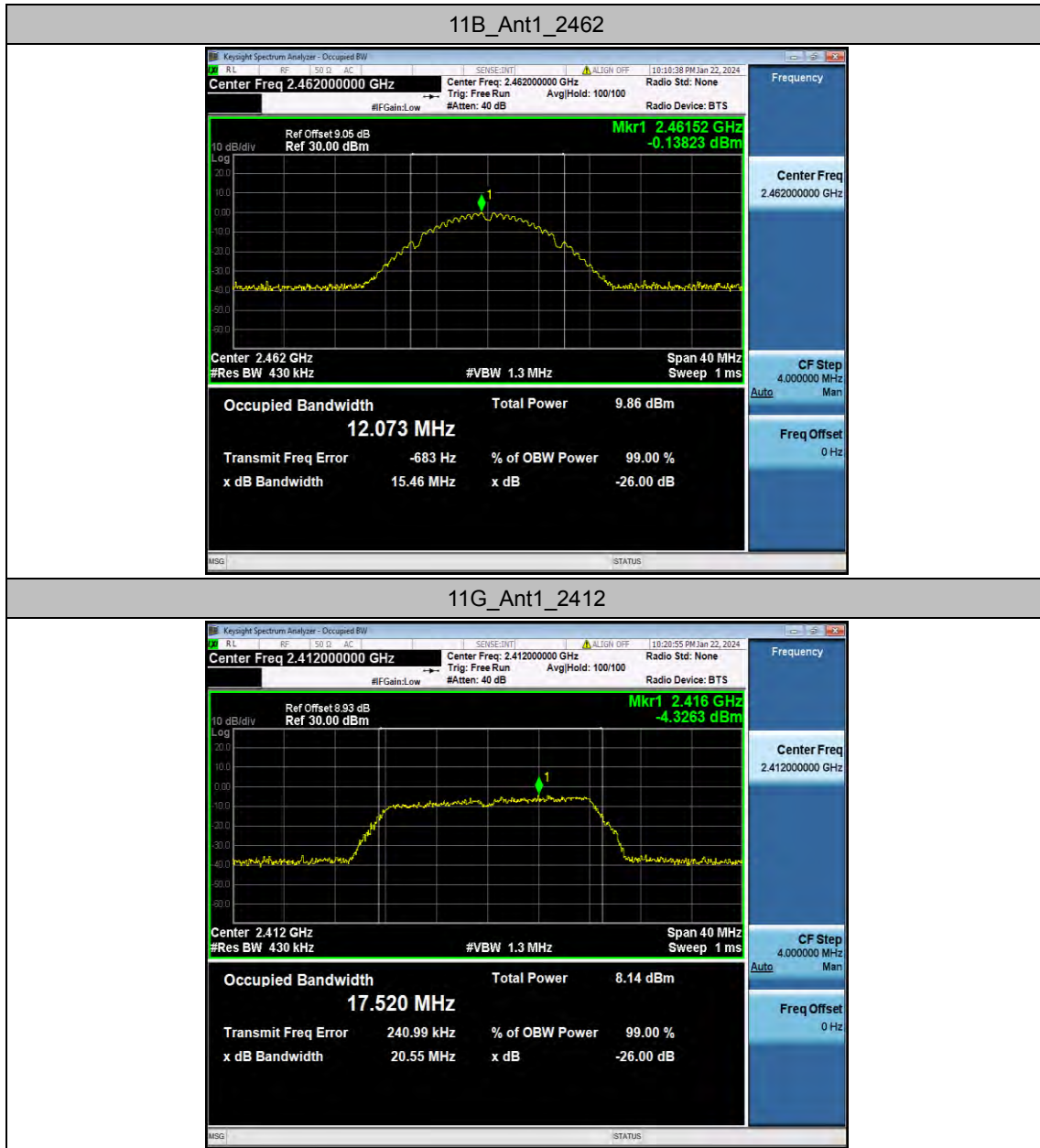
### Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.651	2405.4990	2419.1500	---	---
		2437	13.348	2429.9935	2443.3415	---	---
		2462	12.073	2455.9628	2468.0358	---	---
11G	Ant1	2412	17.520	2403.4810	2421.0010	---	---
		2437	17.121	2428.1380	2445.2590	---	---
		2462	16.351	2453.8090	2470.1600	---	---
11N20SISO	Ant1	2412	18.363	2403.0417	2421.4047	---	---
		2437	18.063	2427.7758	2445.8388	---	---
		2462	17.373	2453.2980	2470.6710	---	---

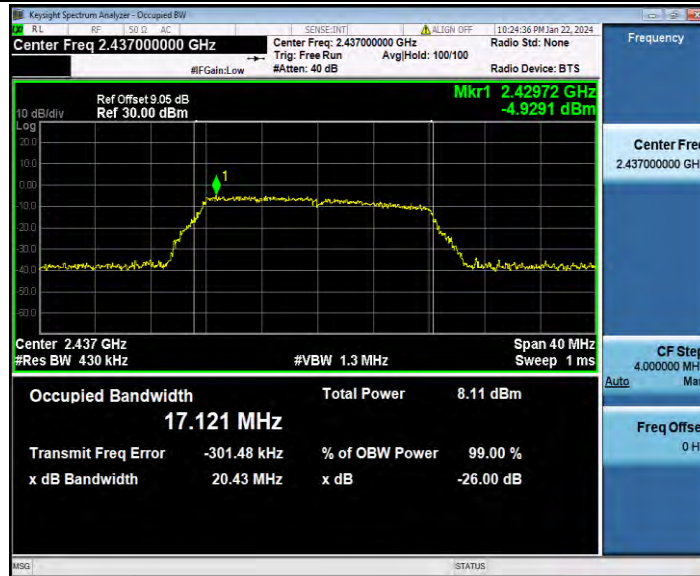
## Test Graphs



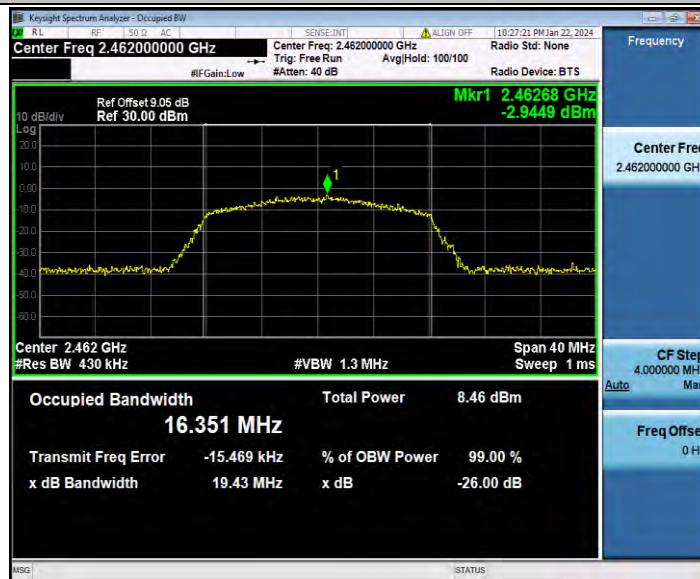




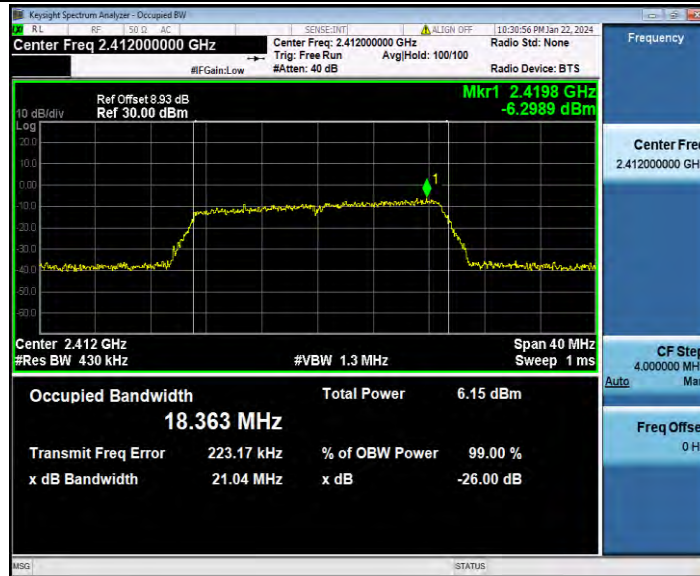
11G\_Ant1\_2437



11G\_Ant1\_2462

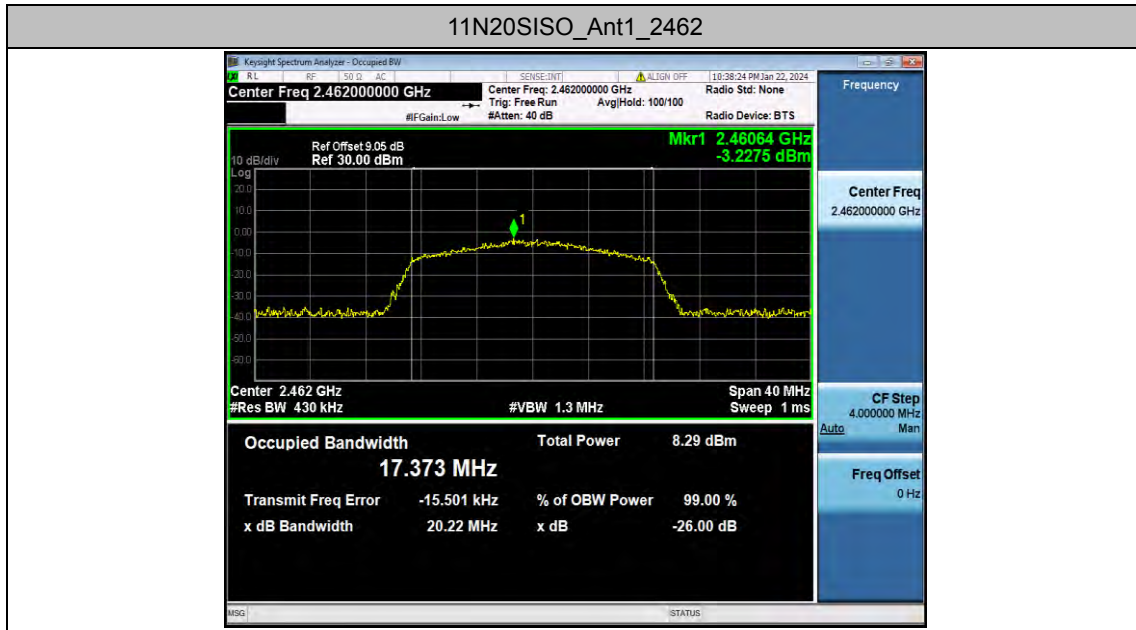


11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437





## Appendix A.3: Maximum conducted output power

### Test Result

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	Verdict
11B	Ant1	2412	8.36	0	0	8.36	≤30.00	0.00	PASS
		2437	8.39	0	0	8.39	≤30.00	0.00	PASS
		2462	8.97	0	0	8.97	≤30.00	0.00	PASS
11G	Ant1	2412	8.19	0	0	8.19	≤30.00	0.00	PASS
		2437	8.27	0	0	8.27	≤30.00	0.00	PASS
		2462	8.73	0	0	8.73	≤30.00	0.00	PASS
11N20SI SO	Ant1	2412	7.29	0	0	7.29	≤30.00	0.00	PASS
		2437	8.36	0	0	8.36	≤30.00	0.00	PASS
		2462	8.49	0	0	8.49	≤30.00	0.00	PASS

Note:

1. The Duty Cycle Factor and RBW Factor is compensated in the data.

## Appendix A.4: Maximum power spectral density

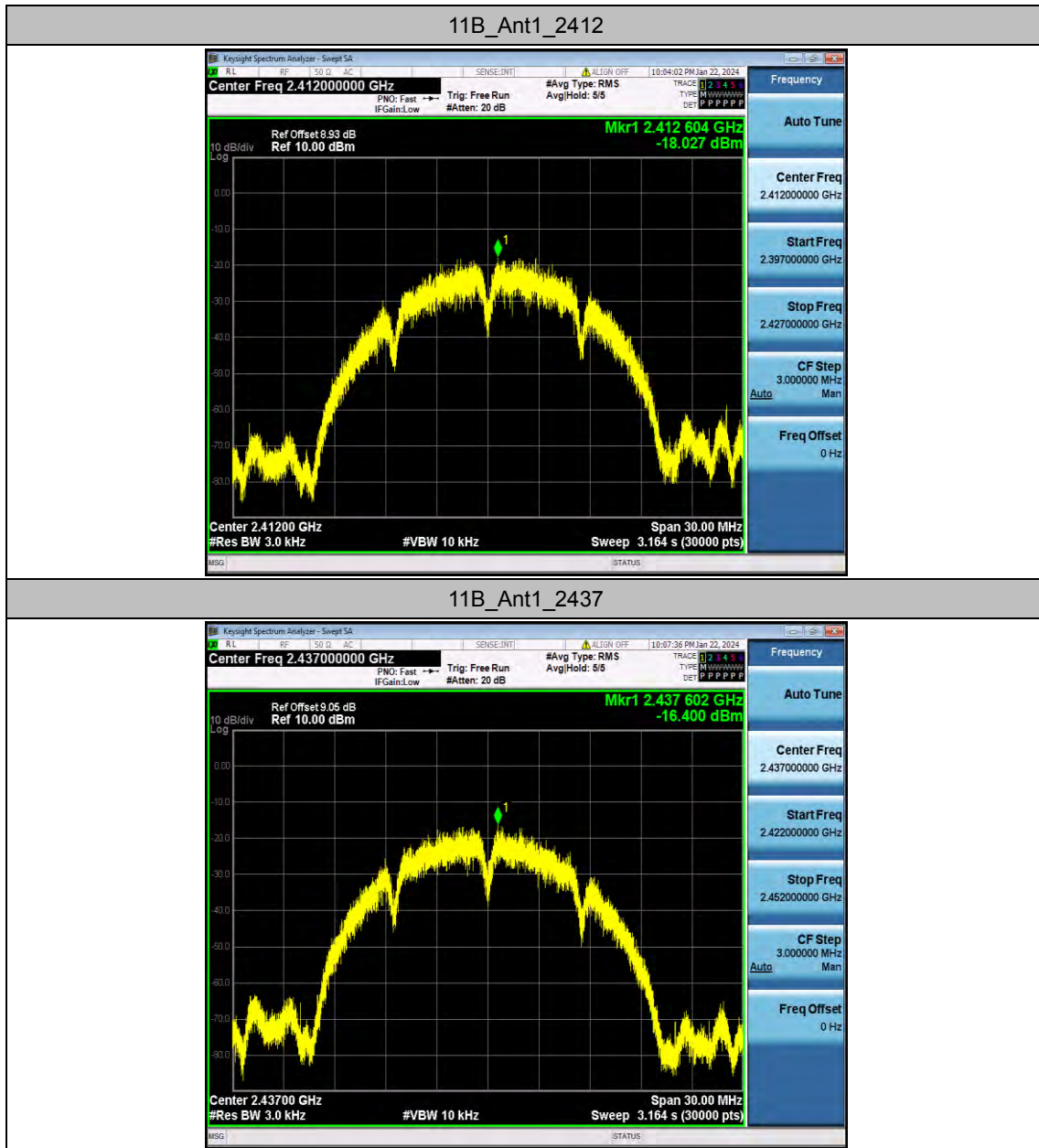
### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-18.03	≤8.00	PASS
		2437	-16.40	≤8.00	PASS
		2462	-15.19	≤8.00	PASS
11G	Ant1	2412	-22.41	≤8.00	PASS
		2437	-23.00	≤8.00	PASS
		2462	-16.65	≤8.00	PASS
11N20SISO	Ant1	2412	-23.94	≤8.00	PASS
		2437	-22.90	≤8.00	PASS
		2462	-16.46	≤8.00	PASS

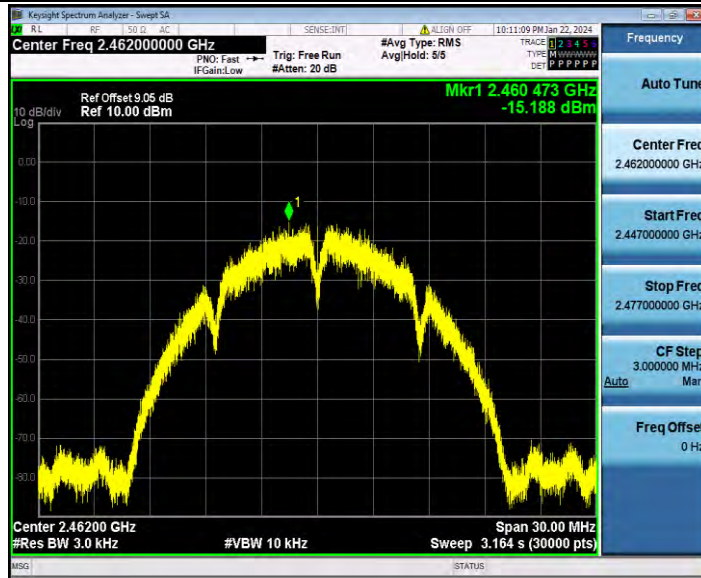
Note:

1. The Duty Cycle Factor and RBW Factor is compensated in the graph.

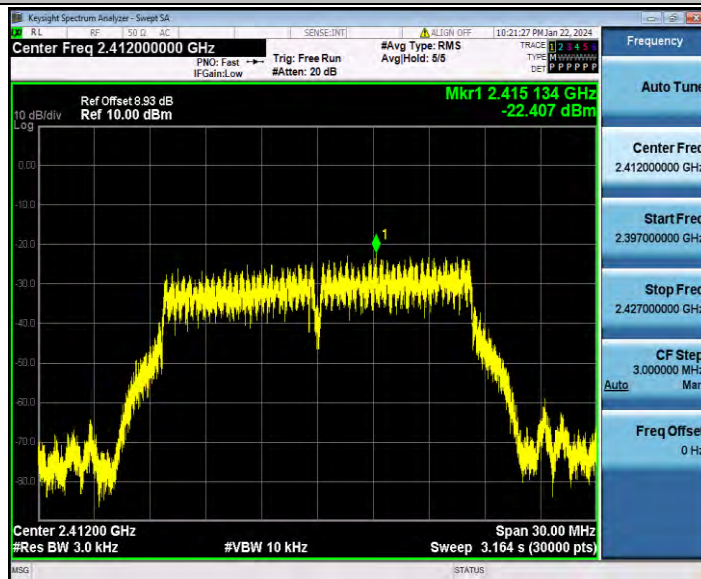
## Test Graphs



11B\_Ant1\_2462

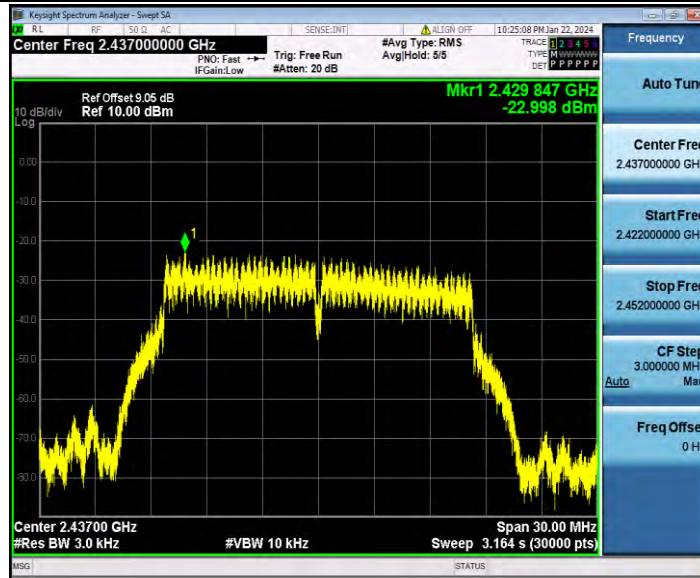


11G\_Ant1\_2412

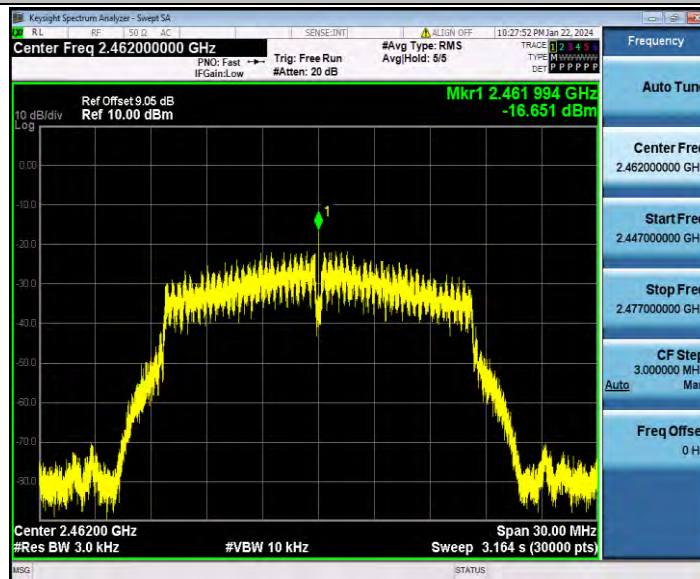




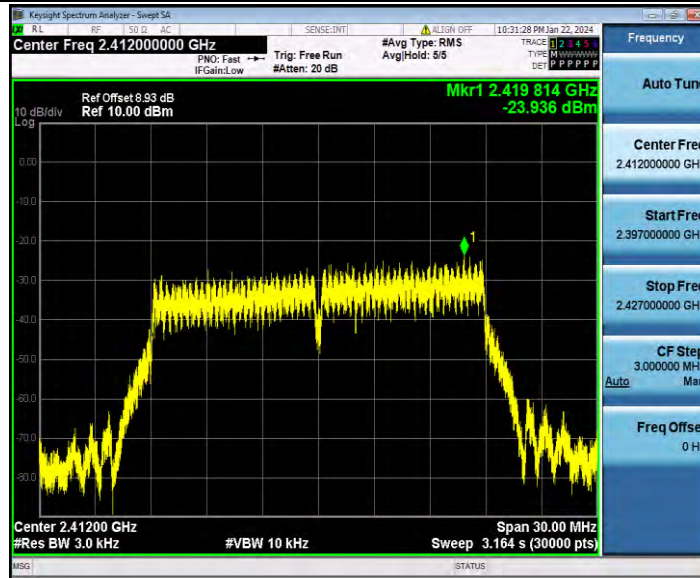
11G\_Ant1\_2437



11G\_Ant1\_2462

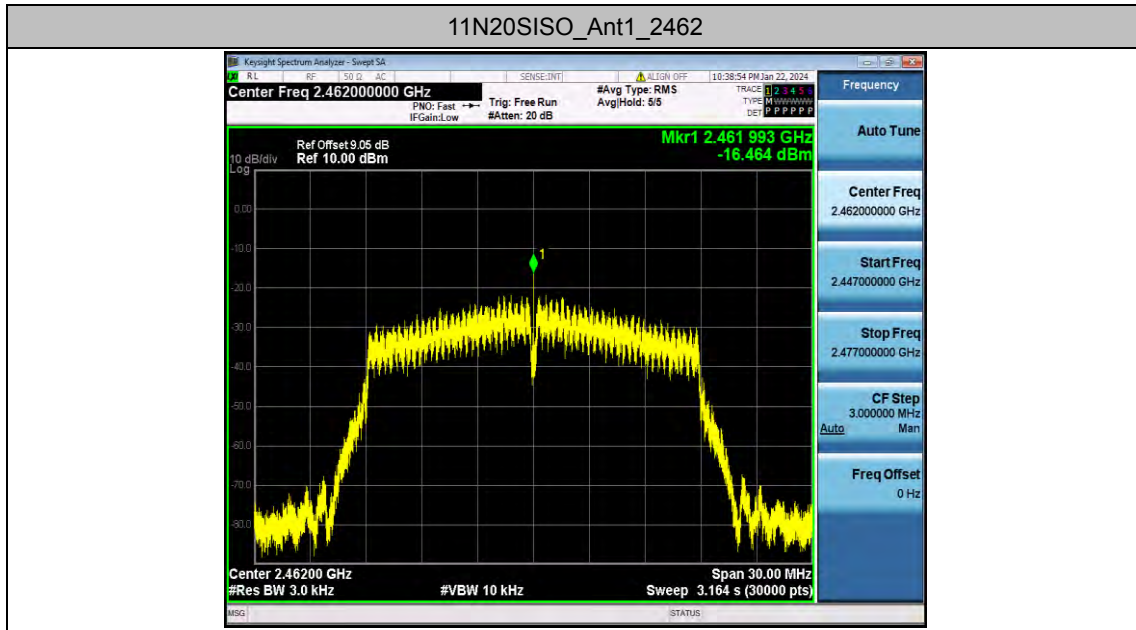


11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437



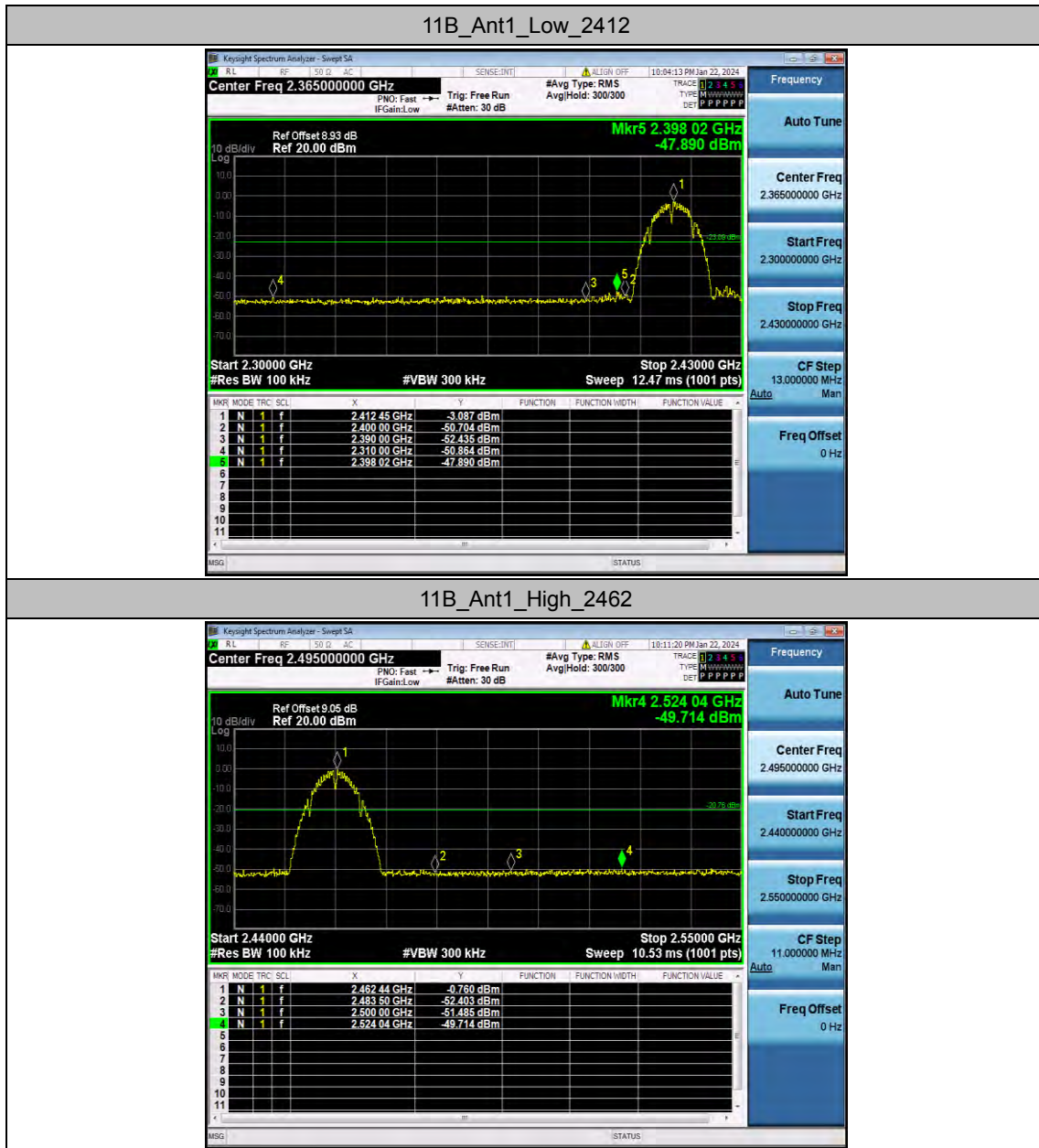


## Appendix A.5: Band edge measurements

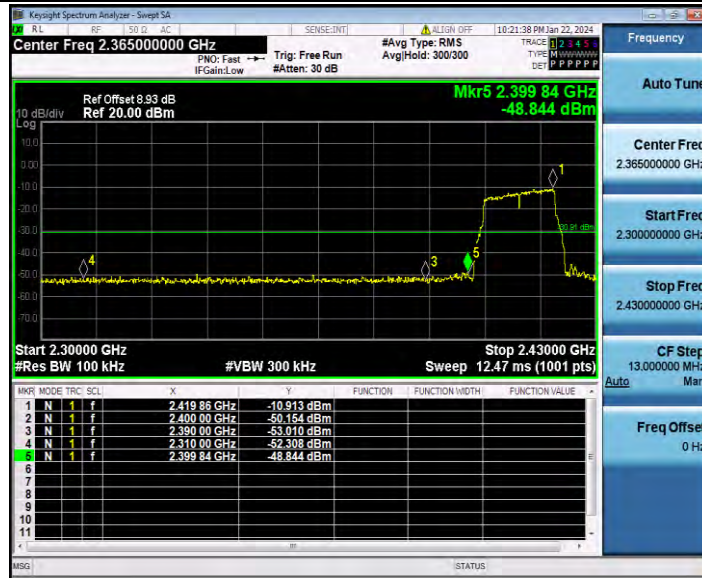
### Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-3.09	-47.89	≤-23.09	PASS
		High	2462	-0.76	-49.71	≤-20.76	PASS
11G	Ant1	Low	2412	-10.91	-48.84	≤-30.91	PASS
		High	2462	-9.46	-49.74	≤-29.46	PASS
11N20SIS O	Ant1	Low	2412	-12.95	-49.5	≤-32.95	PASS
		High	2462	-9.29	-49.23	≤-29.29	PASS

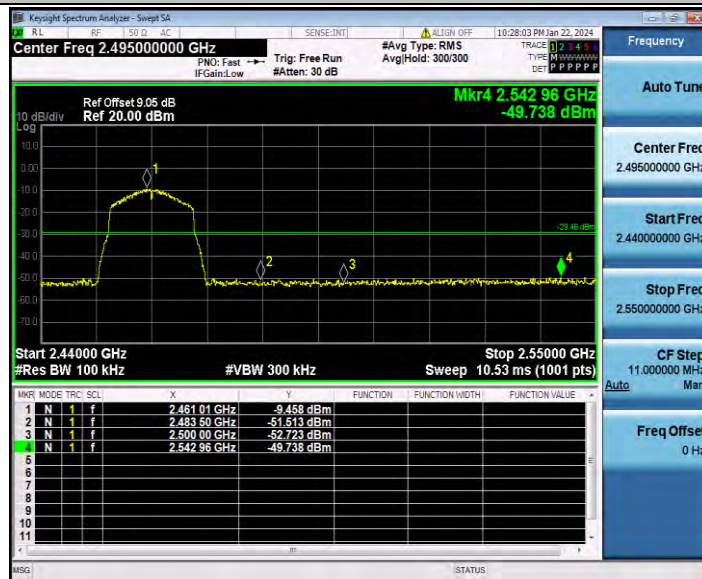
## Test Graphs



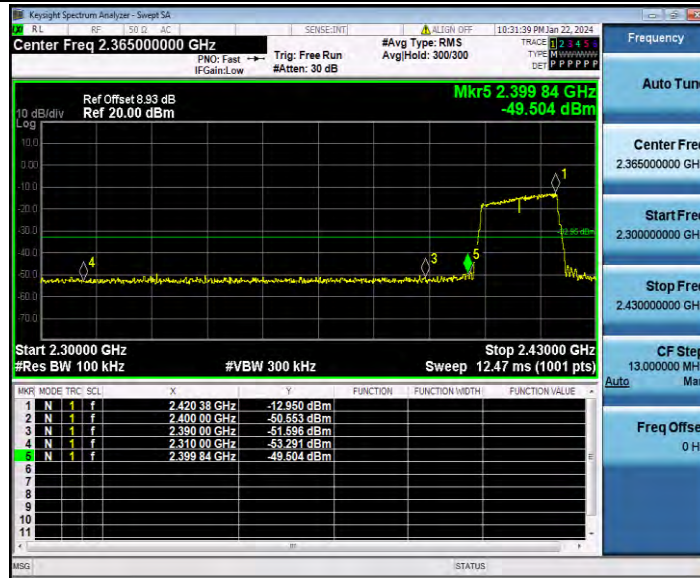
11G\_Ant1\_Low\_2412



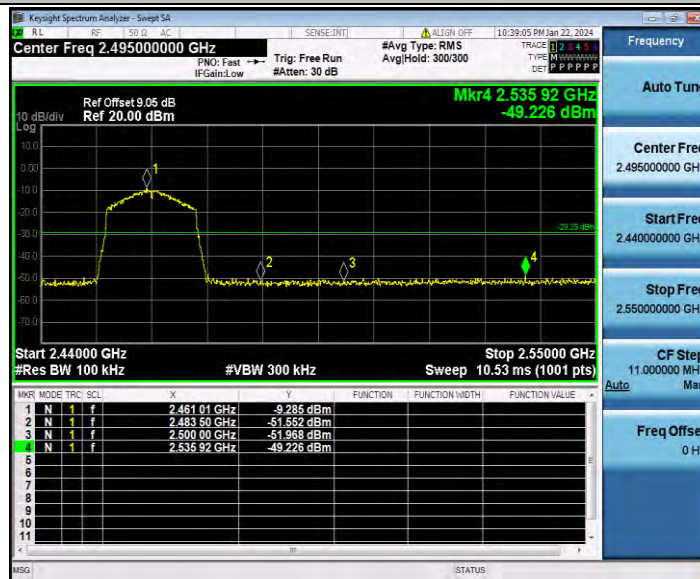
11G\_Ant1\_High\_2462



11N20SISO\_Ant1\_Low\_2412



11N20SISO\_Ant1\_High\_2462



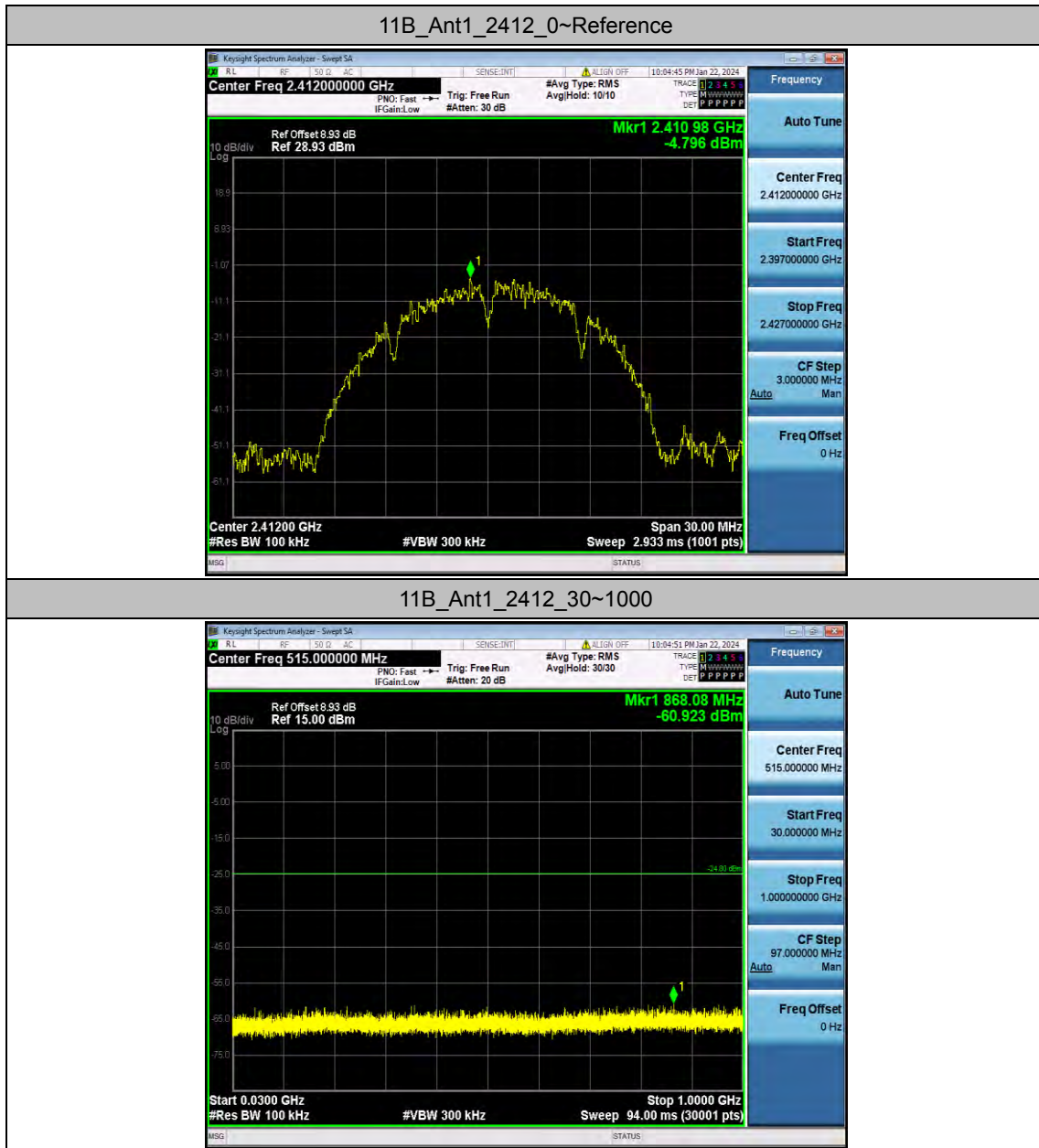
## Appendix A.6: Conducted Spurious Emission

### Test Result

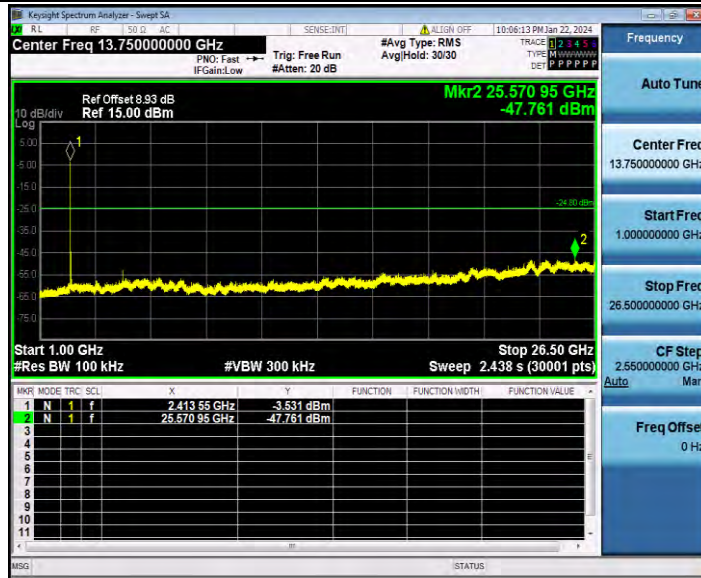
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-4.80	-4.80	---	PASS
			30~1000	-4.80	-60.92	≤-24.8	PASS
			1000~26500	-4.80	-47.76	≤-24.8	PASS
		2437	Reference	-3.25	-3.25	---	PASS
			30~1000	-3.25	-60.67	≤-23.25	PASS
			1000~26500	-3.25	-48	≤-23.25	PASS
		2462	Reference	-3.21	-3.21	---	PASS
			30~1000	-3.21	-61.1	≤-23.21	PASS
			1000~26500	-3.21	-47.62	≤-23.21	PASS
11G	Ant1	2412	Reference	-11.03	-11.03	---	PASS
			30~1000	-11.03	-60.75	≤-31.03	PASS
			1000~26500	-11.03	-47.81	≤-31.03	PASS
		2437	Reference	-12.06	-12.06	---	PASS
			30~1000	-12.06	-60.54	≤-32.06	PASS
			1000~26500	-12.06	-48.39	≤-32.06	PASS
		2462	Reference	-9.88	-9.88	---	PASS
			30~1000	-9.88	-59.97	≤-29.88	PASS
			1000~26500	-9.88	-48.06	≤-29.88	PASS
11N20SISO	Ant1	2412	Reference	-13.92	-13.92	---	PASS
			30~1000	-13.92	-59.71	≤-33.92	PASS
			1000~26500	-13.92	-48	≤-33.92	PASS
		2437	Reference	-12.33	-12.33	---	PASS
			30~1000	-12.33	-61.23	≤-32.33	PASS
			1000~26500	-12.33	-48.42	≤-32.33	PASS
		2462	Reference	-11.17	-11.17	---	PASS
			30~1000	-11.17	-60.62	≤-31.17	PASS
			1000~26500	-11.17	-47.84	≤-31.17	PASS



## Test Graphs



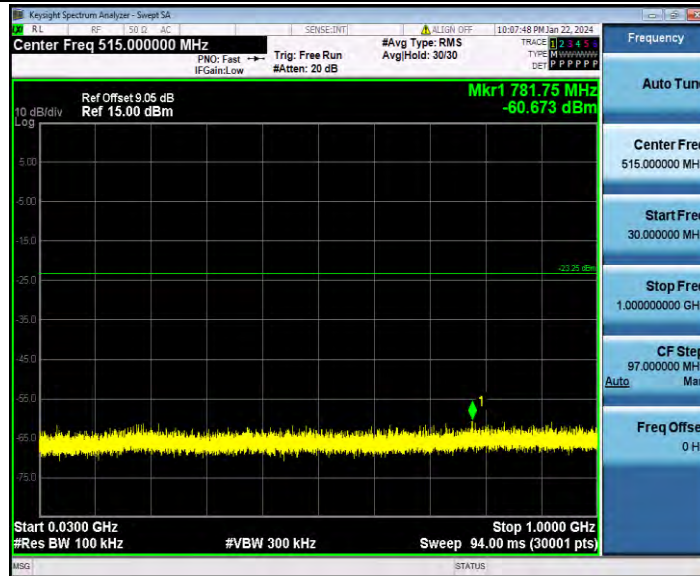
11B\_Ant1\_2412\_1000~26500



11B\_Ant1\_2437\_0~Reference



11B\_Ant1\_2437\_30~1000



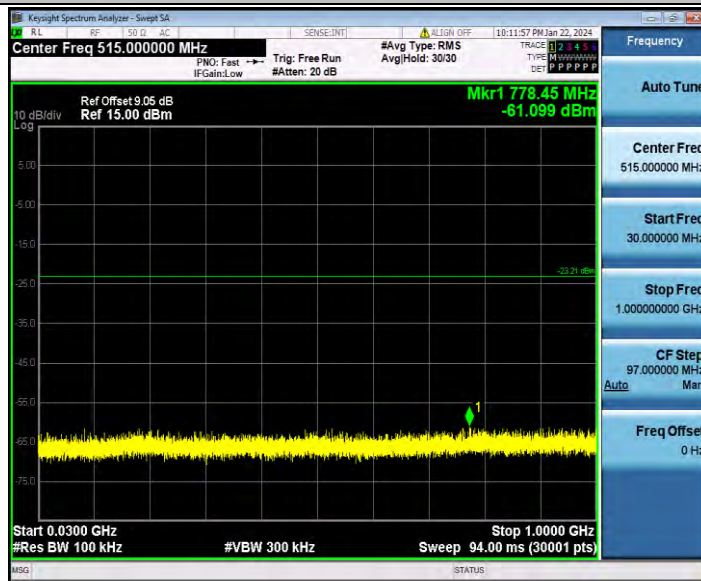
11B\_Ant1\_2437\_1000~26500



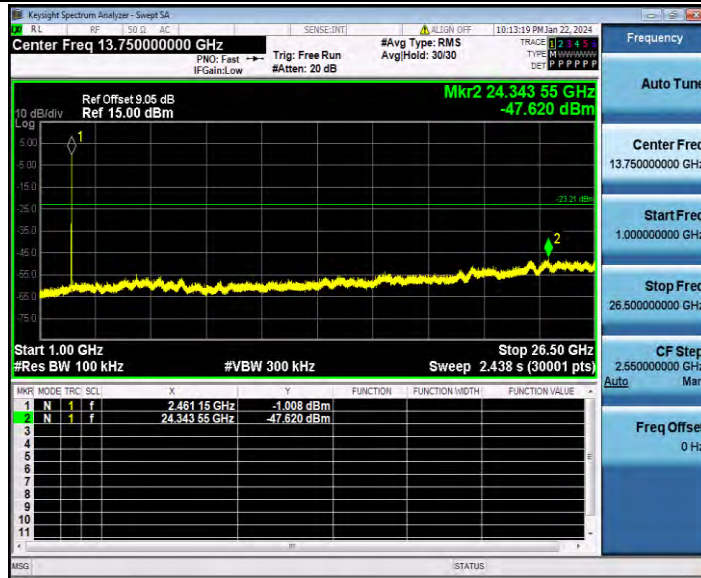
11B\_Ant1\_2462\_0~Reference



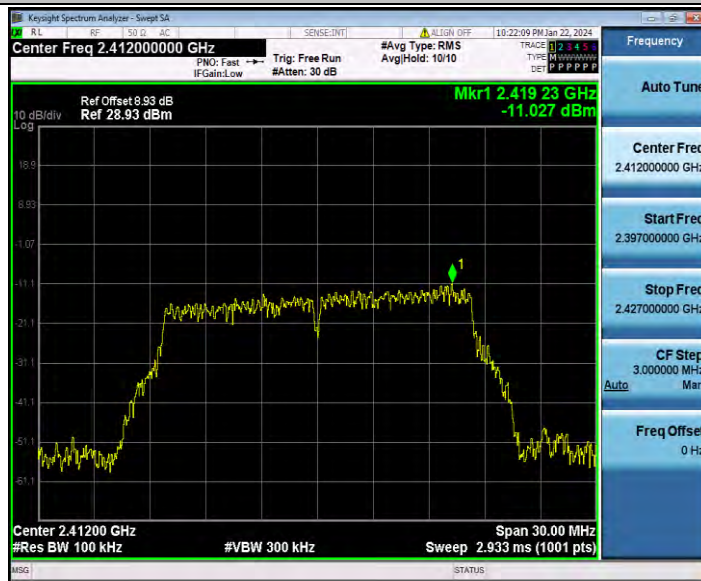
11B\_Ant1\_2462\_30~1000



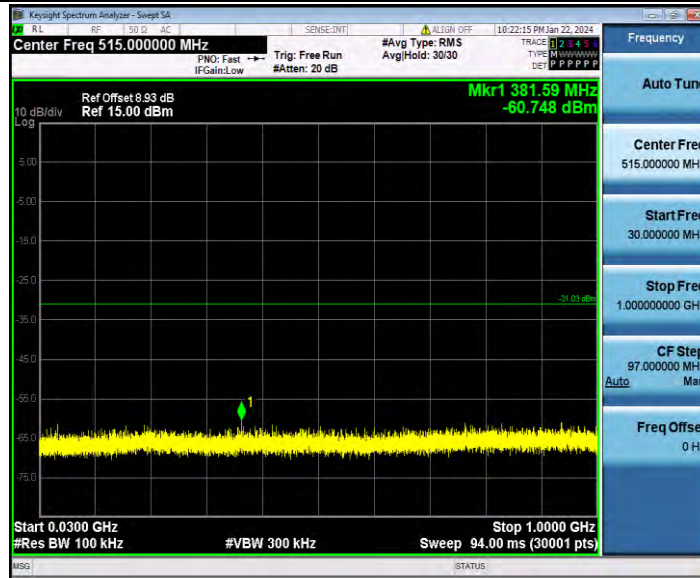
11B\_Ant1\_2462\_1000~26500



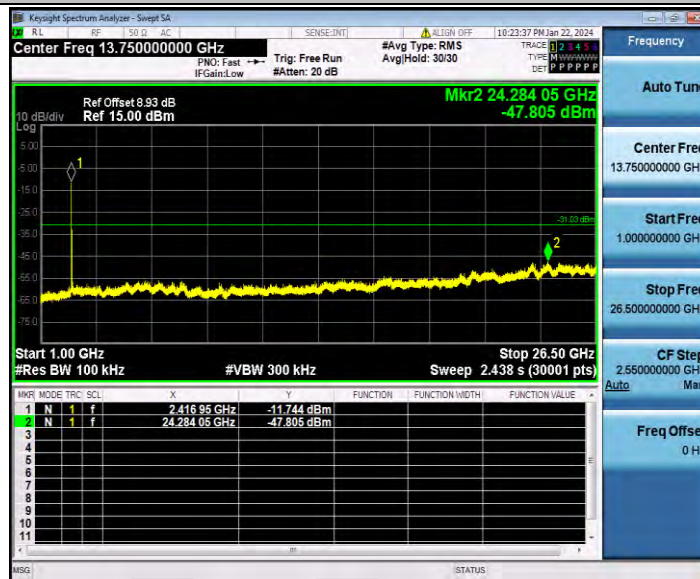
11G\_Ant1\_2412\_0~Reference



11G\_Ant1\_2412\_30~1000



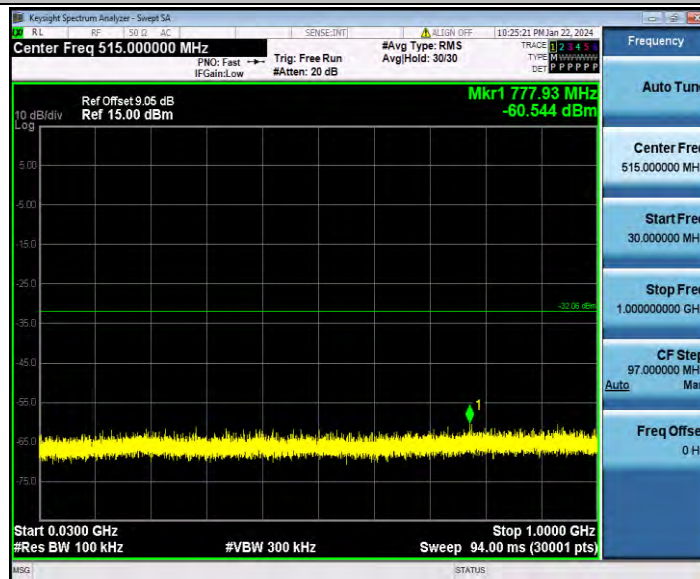
11G\_Ant1\_2412\_1000~26500



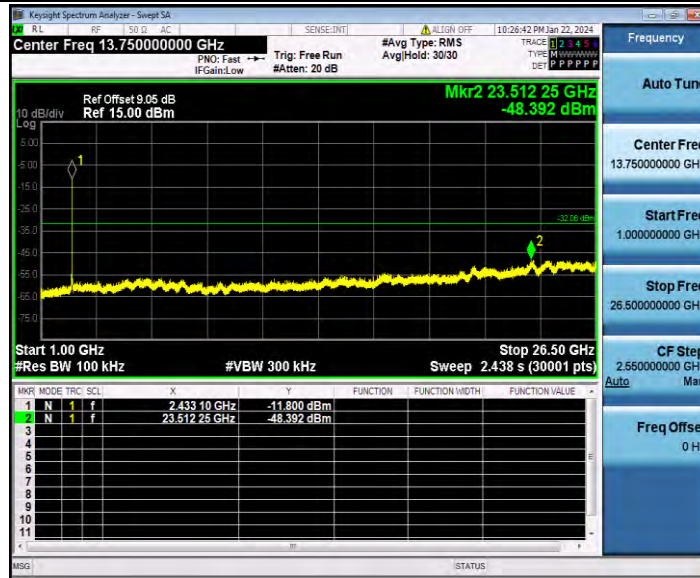
11G\_Ant1\_2437\_0~Reference



11G\_Ant1\_2437\_30~1000



11G\_Ant1\_2437\_1000~26500

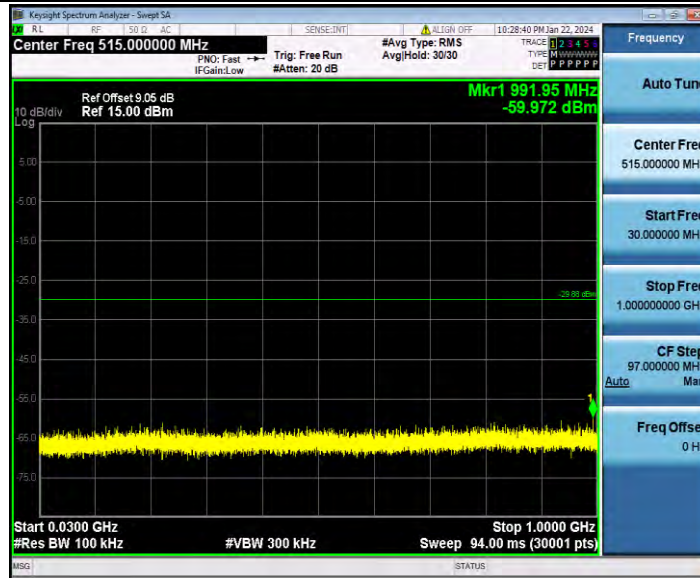


11G\_Ant1\_2462\_0~Reference





11G\_Ant1\_2462\_30~1000



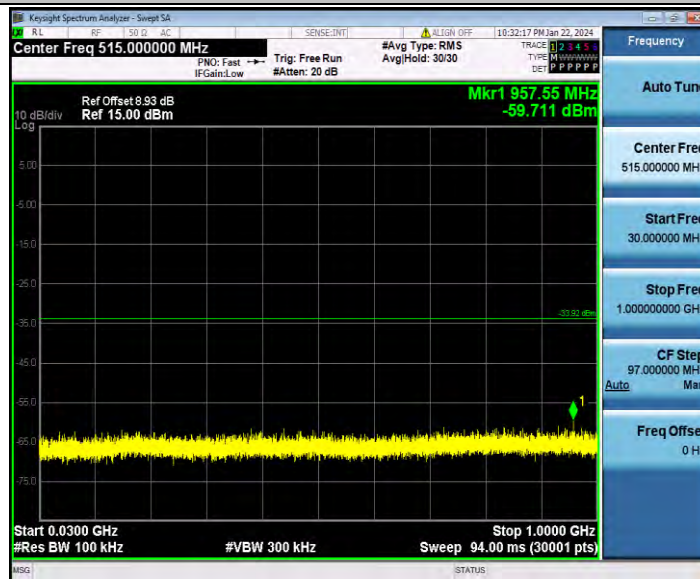
11G\_Ant1\_2462\_1000~26500



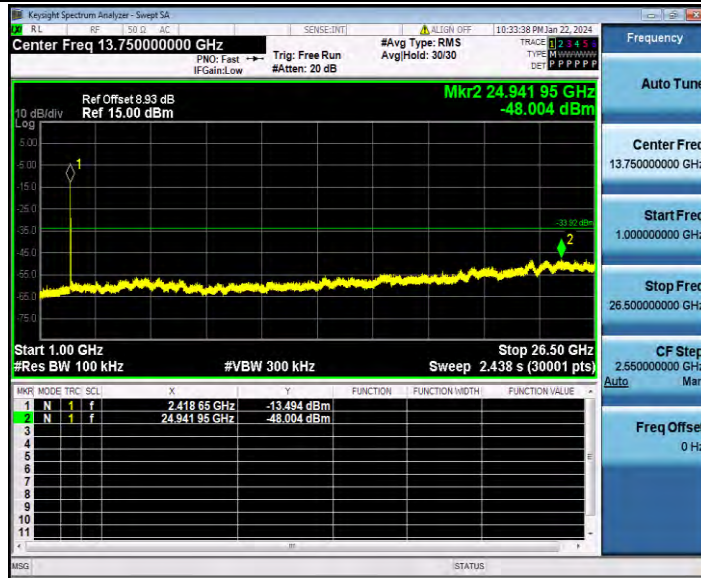
11N20SISO\_Ant1\_2412\_0~Reference



11N20SISO\_Ant1\_2412\_30~1000



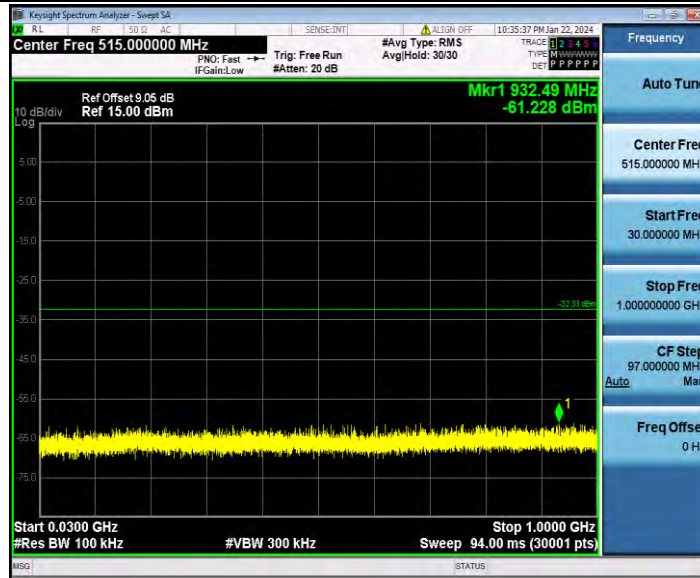
11N20SISO\_Ant1\_2412\_1000~26500



11N20SISO\_Ant1\_2437\_0~Reference



11N20SISO\_Ant1\_2437\_30~1000



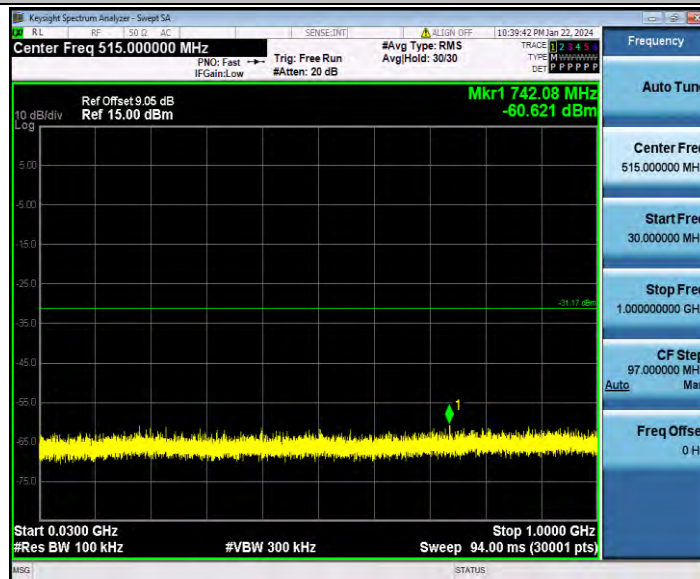
11N20SISO\_Ant1\_2437\_1000~26500

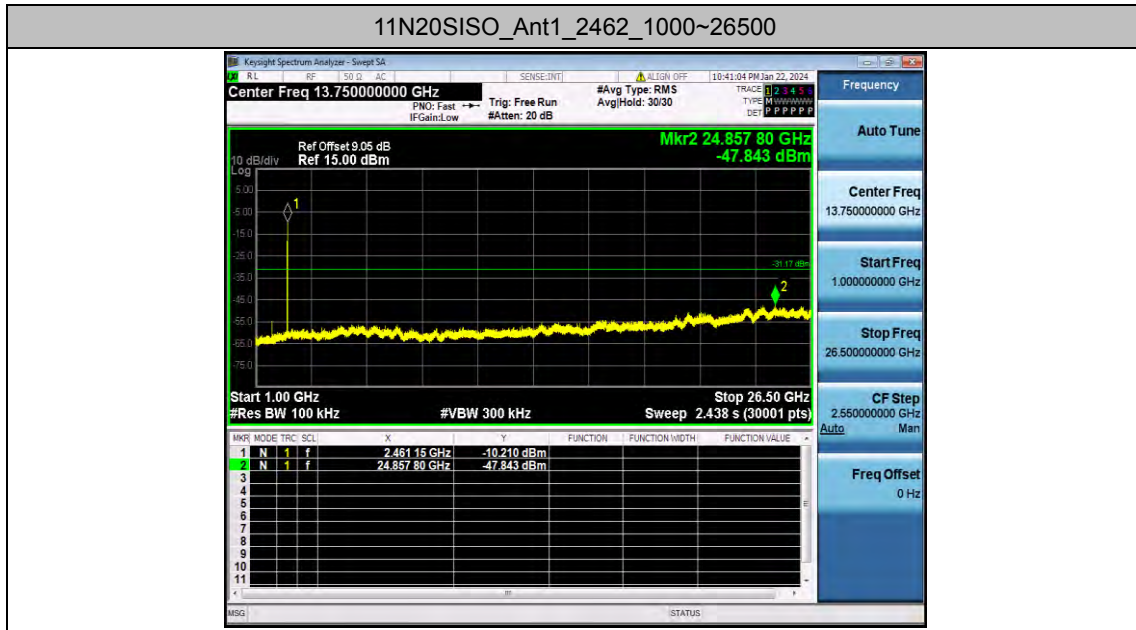


11N20SISO\_Ant1\_2462\_0~Reference



11N20SISO\_Ant1\_2462\_30~1000





## Appendix A.7: Emissions in Restricted Bands

### Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.7	≤-41.20	45.50	≤54	PASS
				AV	2388.530	-49.27	≤-41.20	45.93	≤54	PASS
				AV	2390.000	-49.29	≤-41.20	45.91	≤54	PASS
				Peak	2310.000	-51.16	≤-21.20	44.04	≤74	PASS
				Peak	2313.780	-40.12	≤-21.20	55.08	≤74	PASS
				Peak	2390.000	-48.03	≤-21.20	47.17	≤74	PASS
		High	2462	AV	2483.500	-49.17	≤-41.20	46.03	≤54	PASS
				AV	2499.950	-48.97	≤-41.20	46.23	≤54	PASS
				AV	2500.000	-48.98	≤-41.20	46.22	≤54	PASS
				Peak	2483.500	-45.66	≤-21.20	49.54	≤74	PASS
				Peak	2493.790	-40.28	≤-21.20	54.92	≤74	PASS
				Peak	2500.000	-45.66	≤-21.20	49.54	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.7	≤-41.20	45.50	≤54	PASS
				AV	2389.960	-49.2	≤-41.20	46.00	≤54	PASS
				AV	2390.000	-49.2	≤-41.20	46.00	≤54	PASS
				Peak	2310.000	-47.07	≤-21.20	48.13	≤74	PASS
				Peak	2383.200	-40.8	≤-21.20	54.40	≤74	PASS
				Peak	2390.000	-47.8	≤-21.20	47.40	≤74	PASS
		High	2462	AV	2483.500	-49.15	≤-41.20	46.05	≤54	PASS
				AV	2499.620	-48.97	≤-41.20	46.23	≤54	PASS
				AV	2500.000	-49.01	≤-41.20	46.19	≤54	PASS
				Peak	2483.500	-47.38	≤-21.20	47.82	≤74	PASS
				Peak	2491.150	-41.86	≤-21.20	53.34	≤74	PASS
				Peak	2500.000	-44.58	≤-21.20	50.62	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.71	≤-41.20	45.49	≤54	PASS
				AV	2389.180	-49.27	≤-41.20	45.93	≤54	PASS
				AV	2390.000	-49.27	≤-41.20	45.93	≤54	PASS
				Peak	2310.000	-45.24	≤-21.20	49.96	≤74	PASS
				Peak	2349.010	-41.06	≤-21.20	54.14	≤74	PASS
				Peak	2390.000	-45.11	≤-21.20	50.09	≤74	PASS
		High	2462	AV	2483.500	-49.09	≤-41.20	46.11	≤54	PASS
				AV	2498.740	-48.99	≤-41.20	46.21	≤54	PASS
				AV	2500.000	-49	≤-41.20	46.20	≤54	PASS
				Peak	2483.500	-46.44	≤-21.20	48.76	≤74	PASS
				Peak	2496.540	-40.44	≤-21.20	54.76	≤74	PASS
				Peak	2496.540	-40.44	≤-21.20	54.76	≤74	PASS

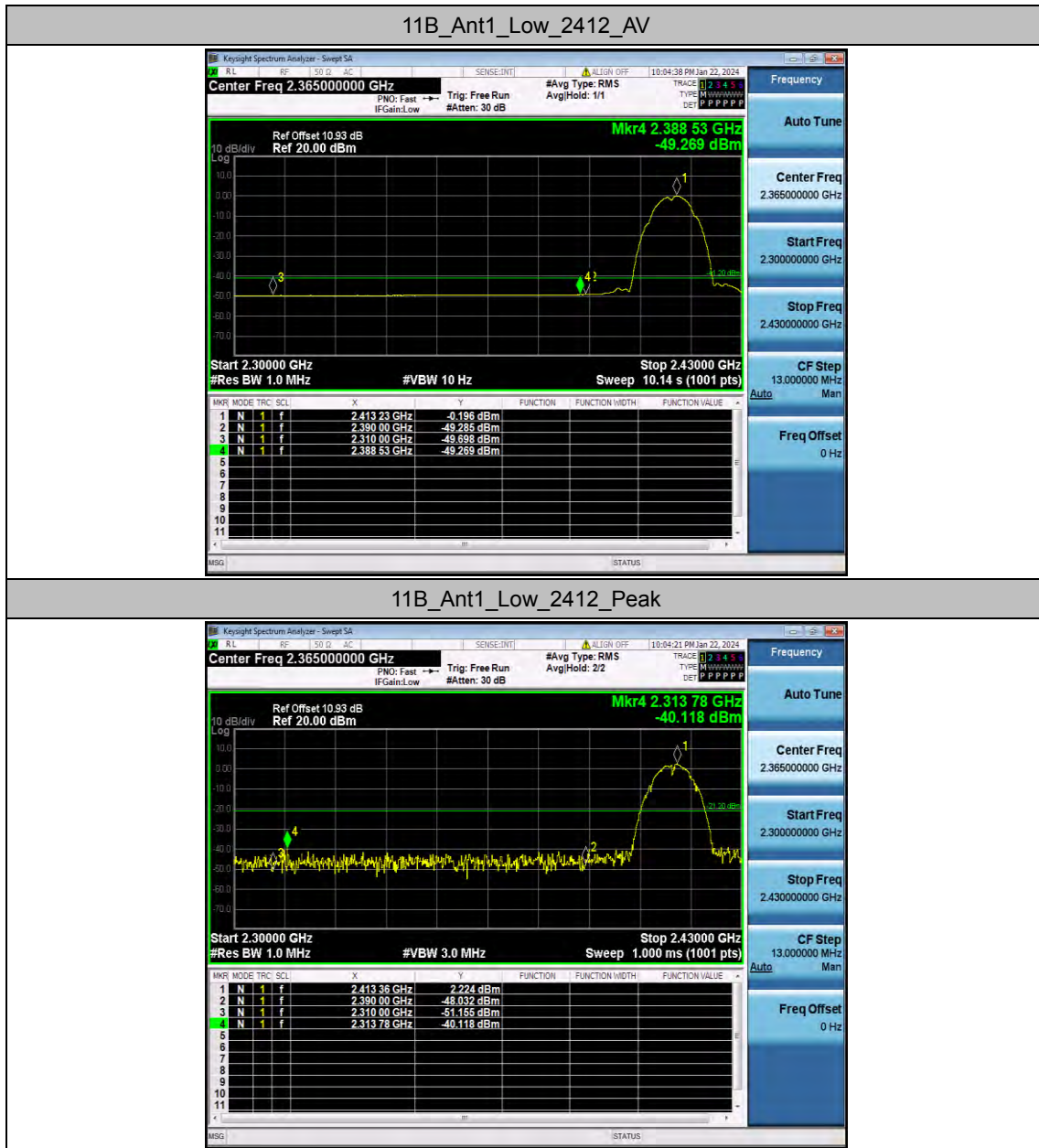
				Peak	2500.000	-45.34	≤-21.20	49.86	≤74	PASS
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Note:

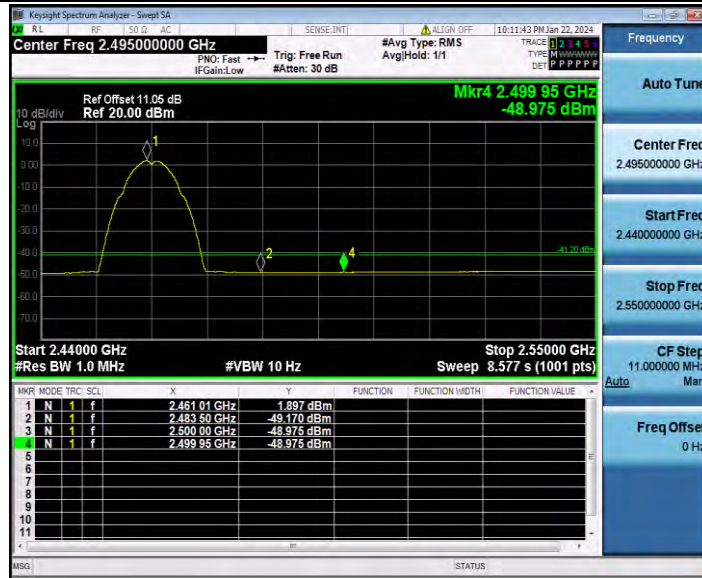
2. The Antenna Gain is compensated in the graph.
3. The Duty Cycle Factor and RBW Factor is compensated in the graph.
4. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



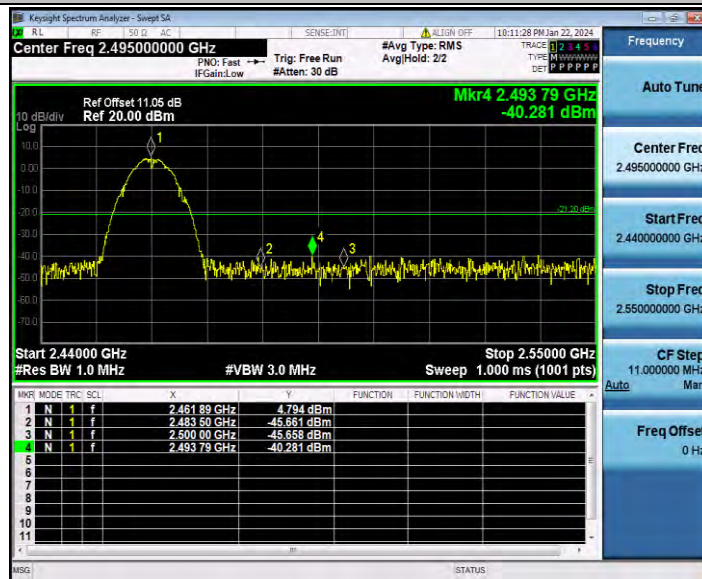
## Test Graphs



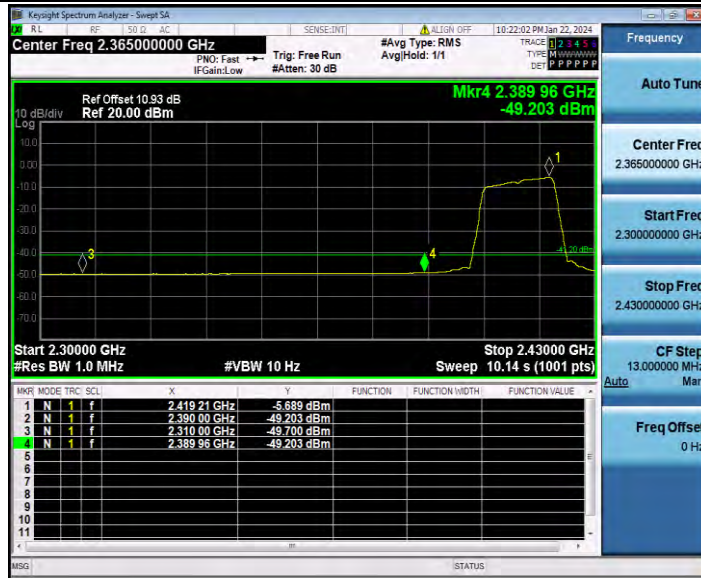
11B\_Ant1\_High\_2462\_AV



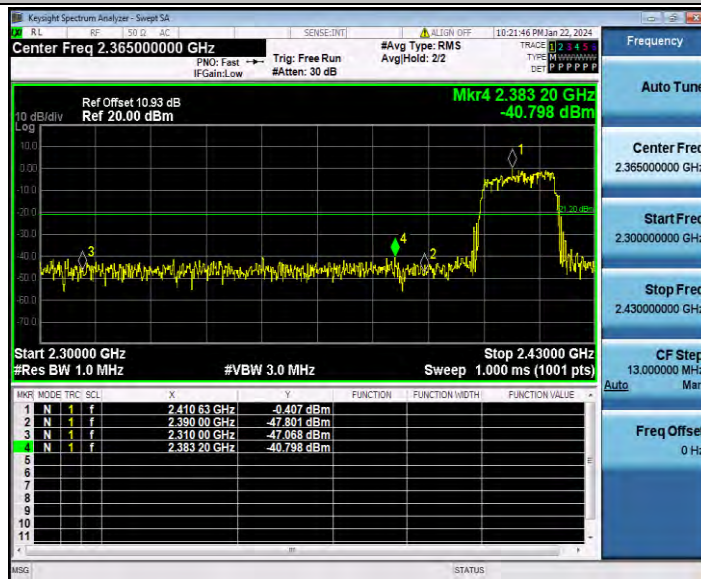
11B\_Ant1\_High\_2462\_Peak



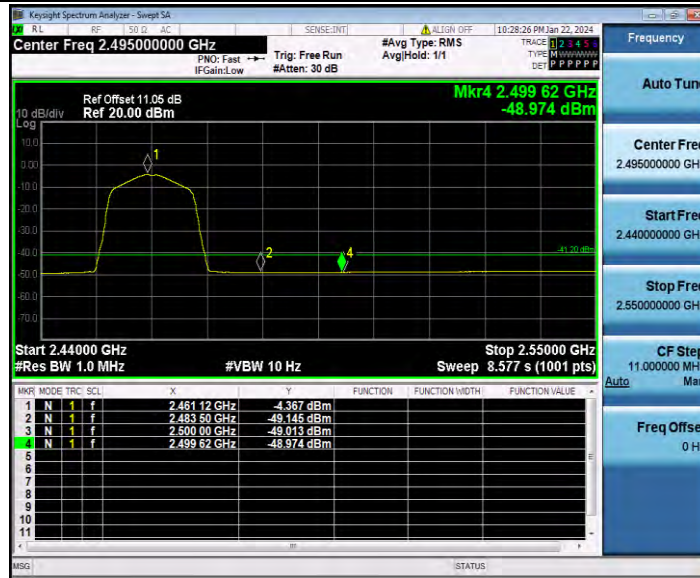
11G\_Ant1\_Low\_2412\_AV



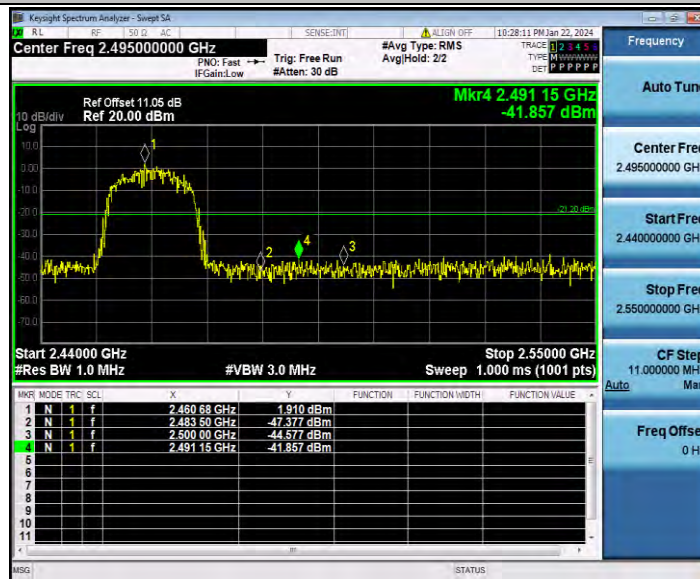
11G\_Ant1\_Low\_2412\_Peak

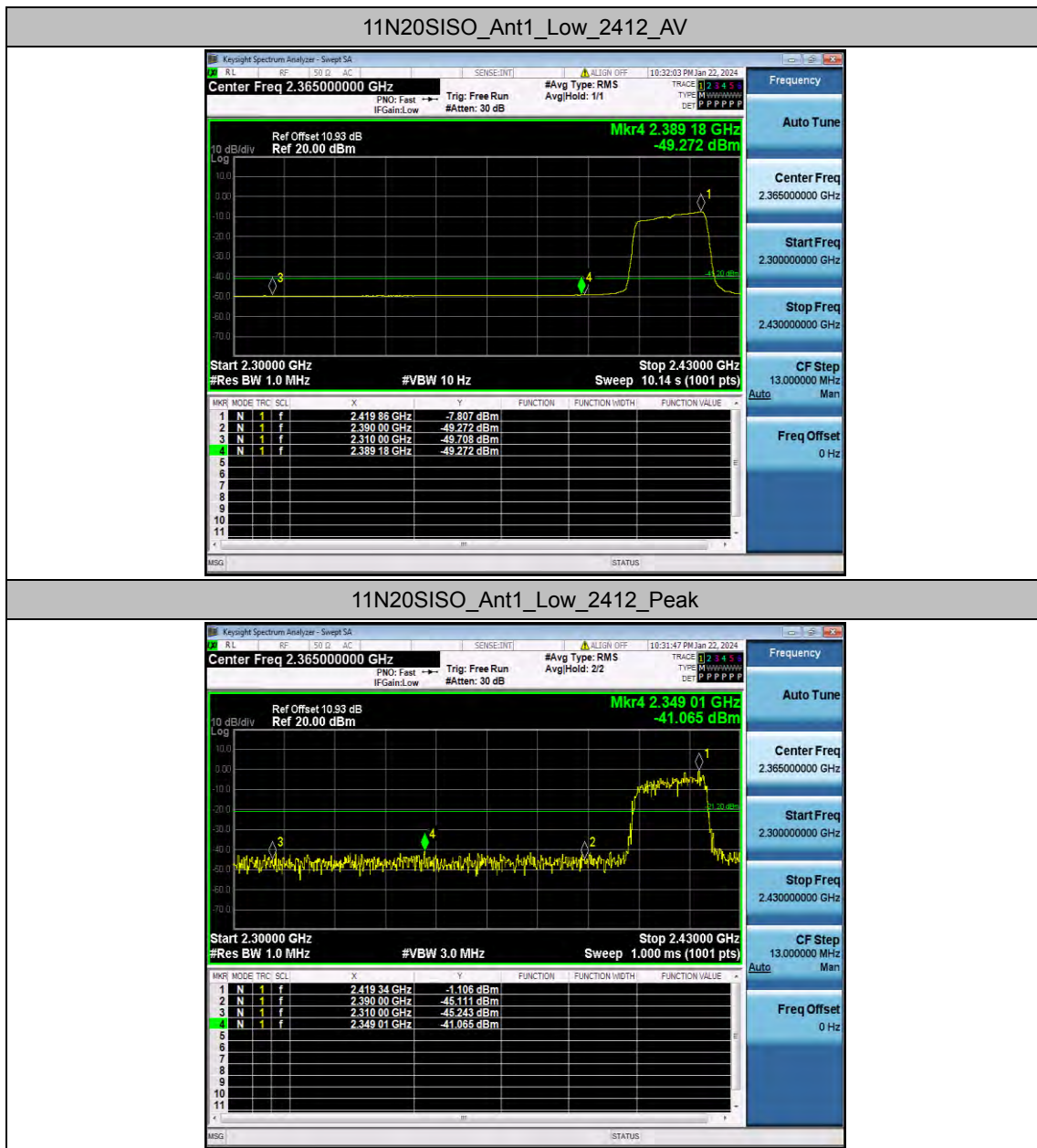


### 11G\_Ant1\_High\_2462\_AV

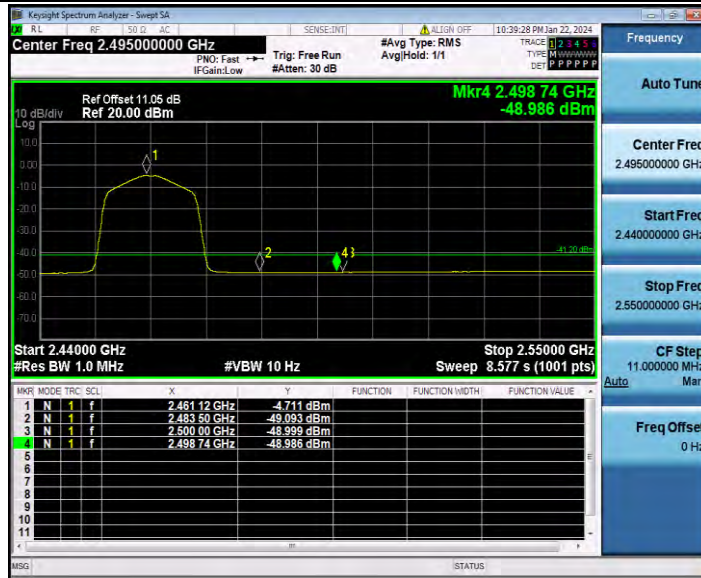


### 11G\_Ant1\_High\_2462\_Peak





### 11N20SISO\_Ant1\_High\_2462\_AV



### 11N20SISO\_Ant1\_High\_2462\_Peak

