

Appendix A Results of 2404B1483SHA-001

DTS Bandwidth

Test Result

TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.560	2407.960	2416.520	0.5	PASS
11B	Ant1	2437	8.000	2433.000	2441.000	0.5	PASS
11B	Ant1	2462	9.040	2457.480	2466.520	0.5	PASS
11G	Ant1	2412	16.280	2403.840	2420.120	0.5	PASS
11G	Ant1	2437	16.320	2428.800	2445.120	0.5	PASS
11G	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.200	2403.560	2420.760	0.5	PASS
11N20SISO	Ant1	2437	17.600	2428.160	2445.760	0.5	PASS
11N20SISO	Ant1	2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	31.760	2406.560	2438.320	0.5	PASS
11N40SISO	Ant1	2437	31.920	2421.080	2453.000	0.5	PASS
11N40SISO	Ant1	2452	31.920	2435.680	2467.600	0.5	PASS

Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS



11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS



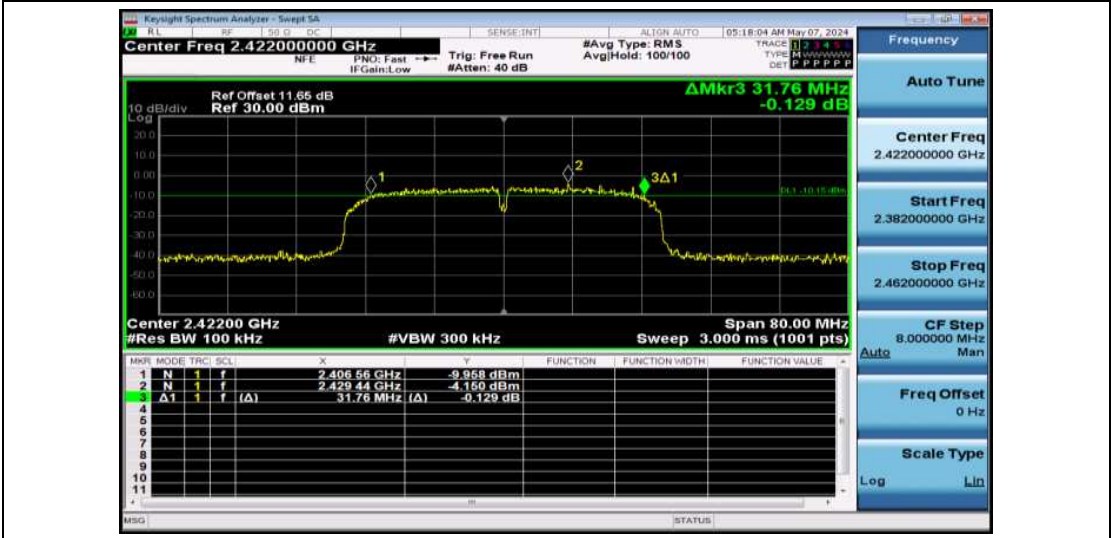
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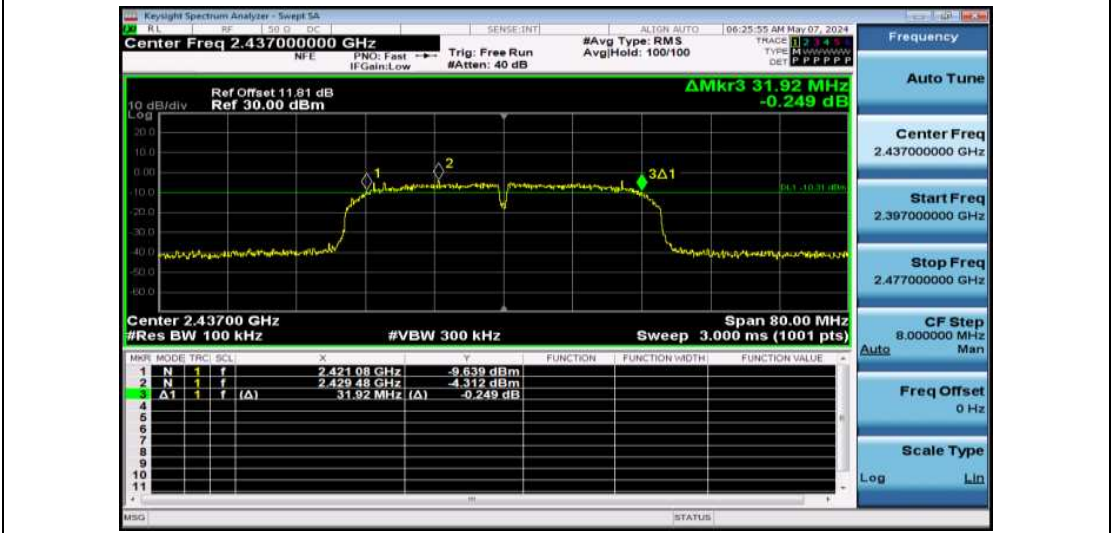
11N20SISO-Ant1-2437-PASS



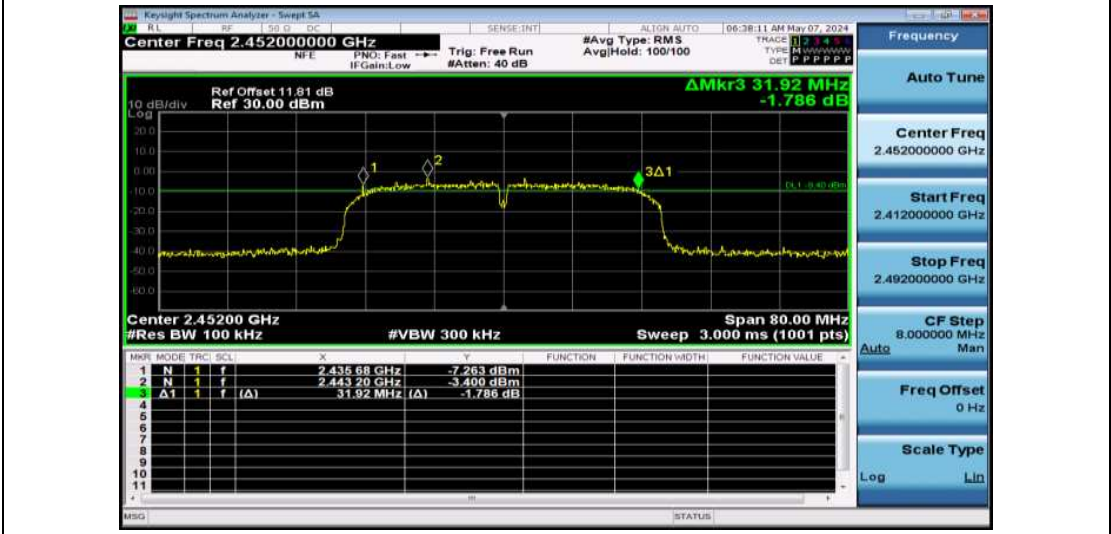
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



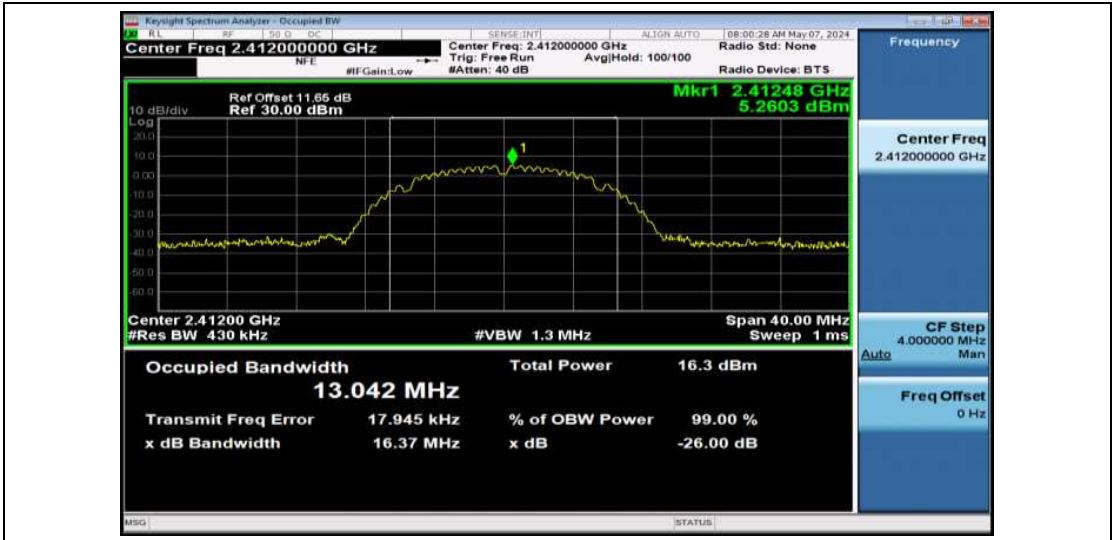
11N40SISO-Ant1-2452-PASS

Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.042	2405.4970	2418.5390	---	---
11B	Ant1	2437	13.072	2430.4719	2443.5439	---	---
11B	Ant1	2462	13.137	2455.4421	2468.5791	---	---
11G	Ant1	2412	17.237	2403.4275	2420.6645	---	---
11G	Ant1	2437	17.244	2428.4064	2445.6504	---	---
11G	Ant1	2462	17.256	2453.3868	2470.6428	---	---
11N20SISO	Ant1	2412	18.235	2402.9228	2421.1578	---	---
11N20SISO	Ant1	2437	18.188	2427.8879	2446.0759	---	---
11N20SISO	Ant1	2462	18.305	2452.8284	2471.1334	---	---
11N40SISO	Ant1	2422	34.225	2404.9261	2439.1511	---	---
11N40SISO	Ant1	2437	34.219	2419.8816	2454.1006	---	---
11N40SISO	Ant1	2452	34.434	2434.8040	2469.2380	---	---

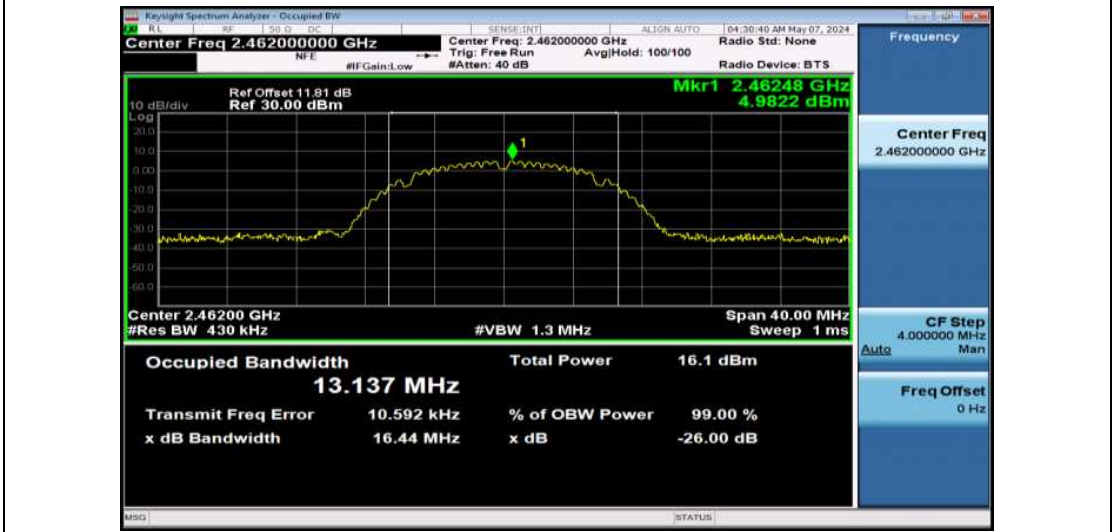
Test Graphs



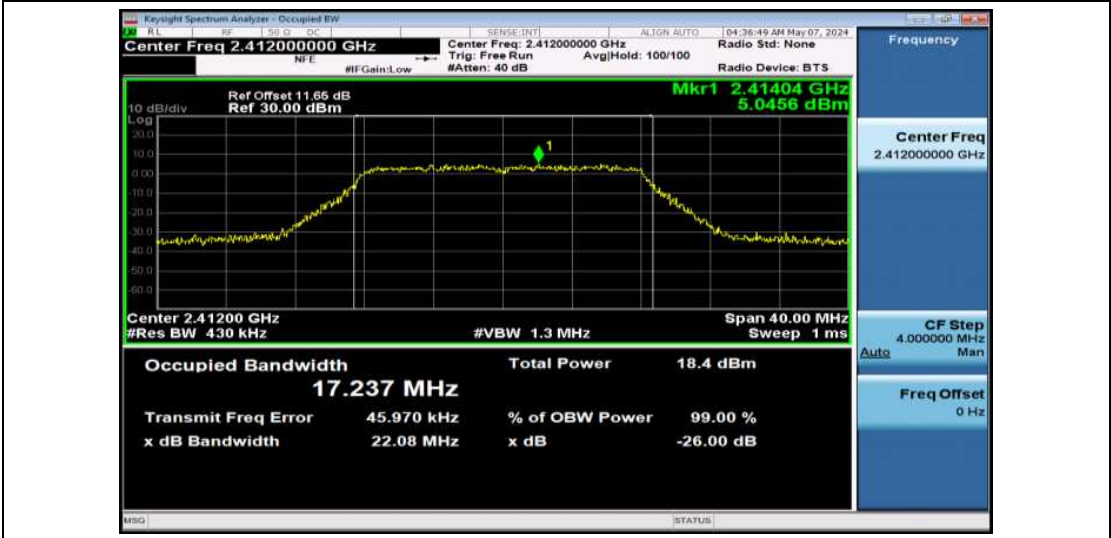
11B-Ant1-2412



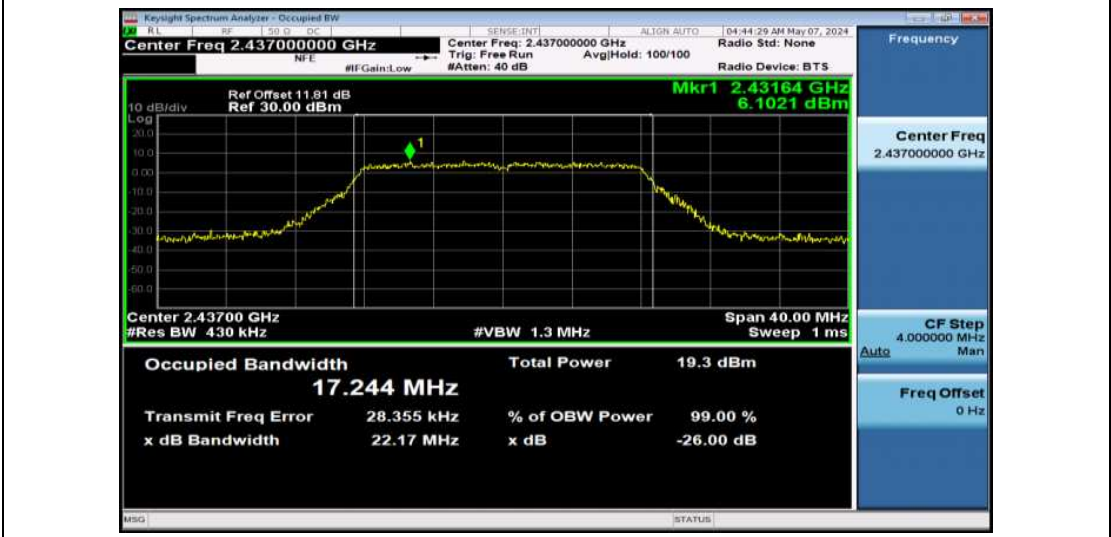
11B-Ant1-2437



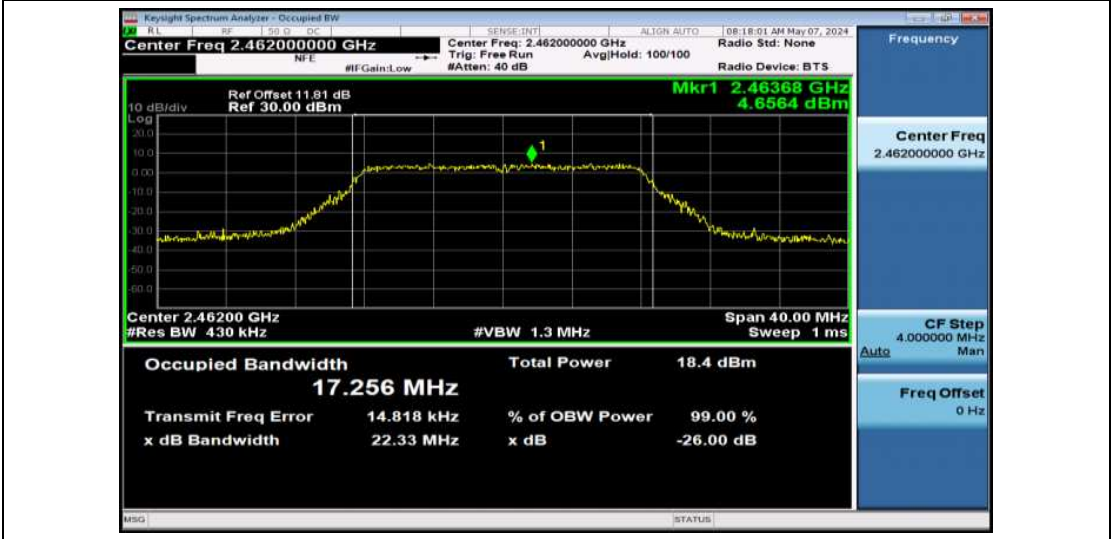
11B-Ant1-2462



11G-Ant1-2412



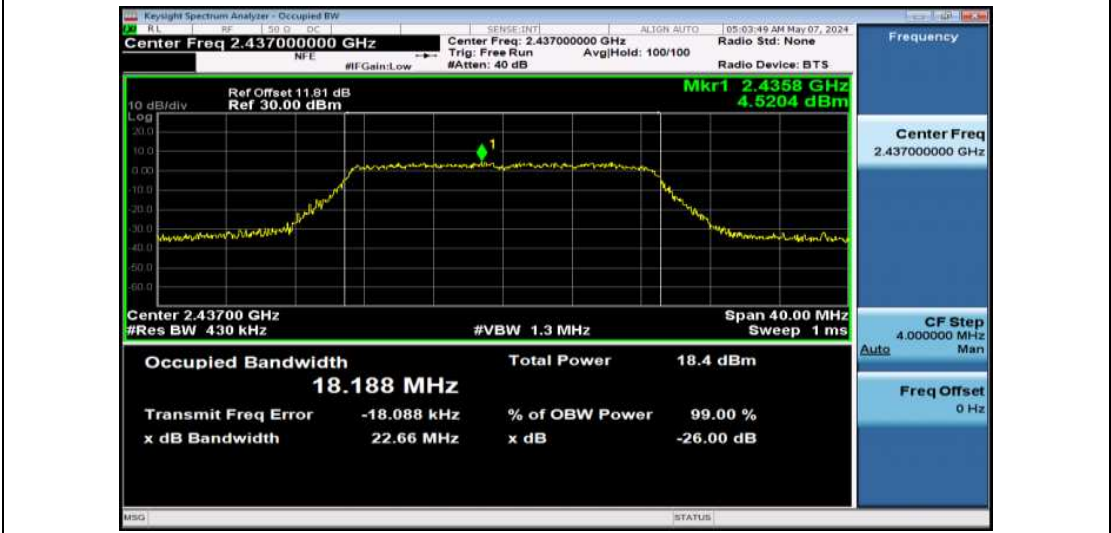
11G-Ant1-2437



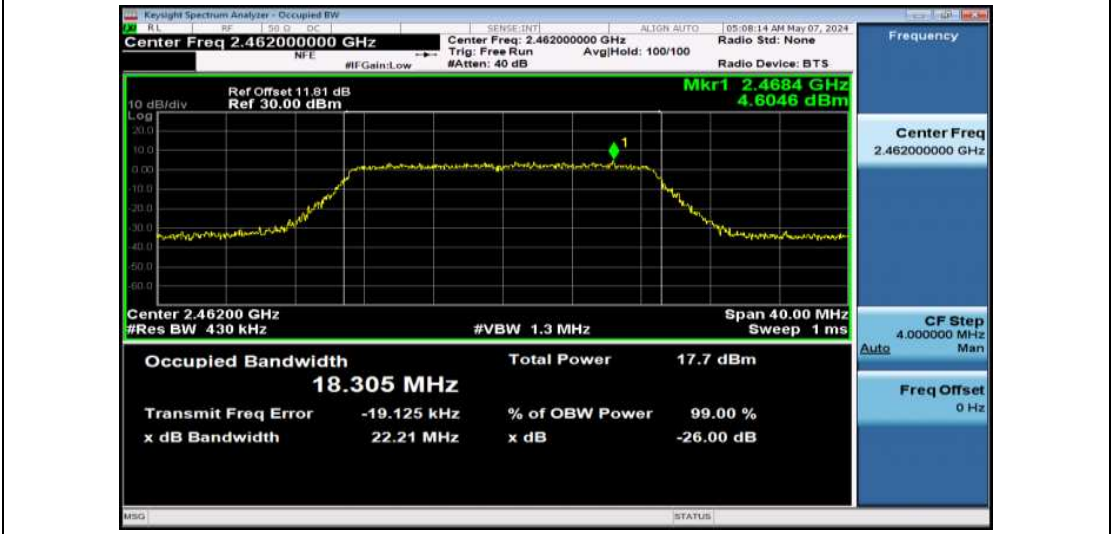
11G-Ant1-2462



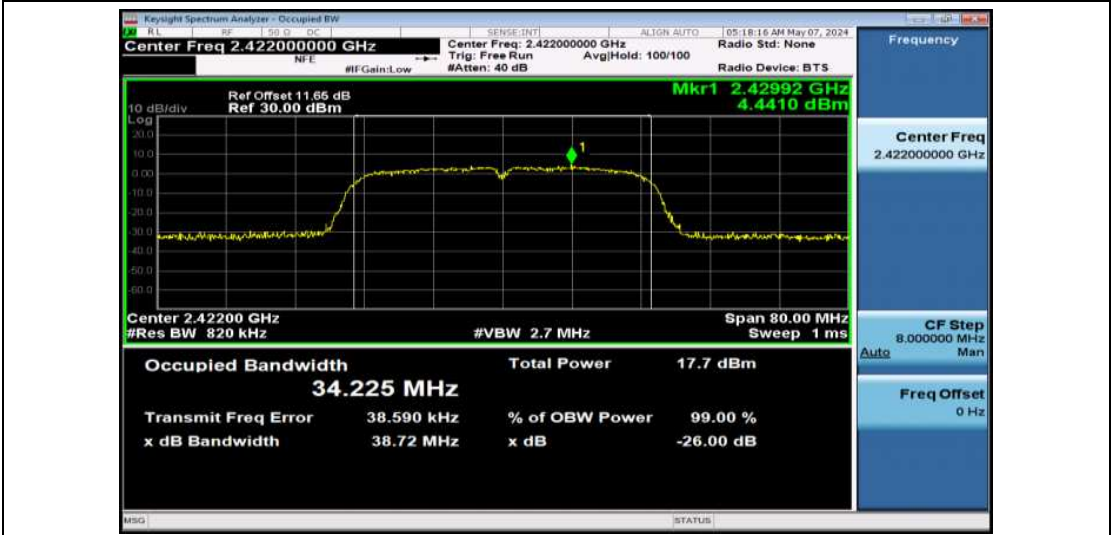
11N20SISO-Ant1-2412



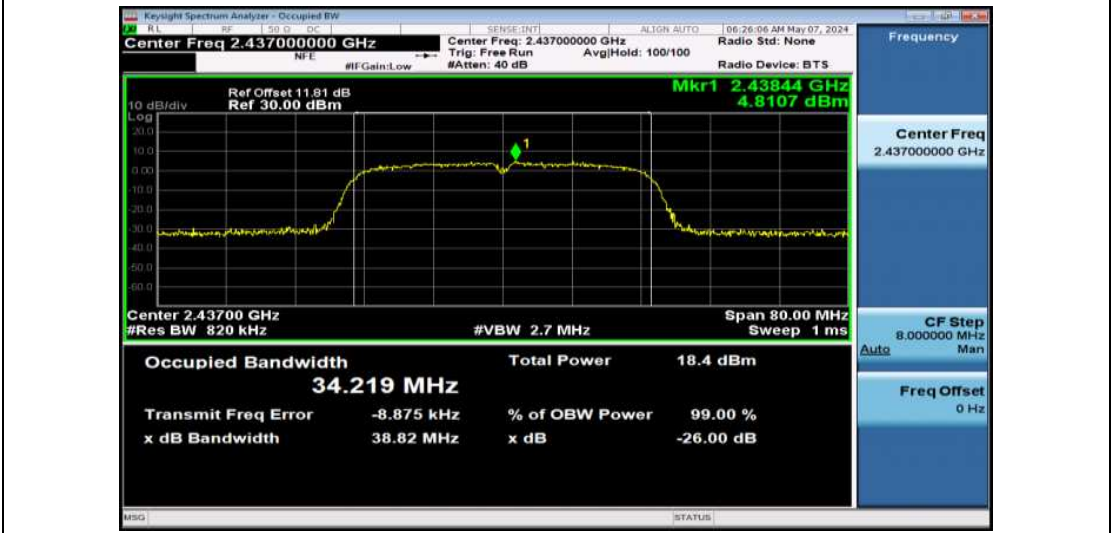
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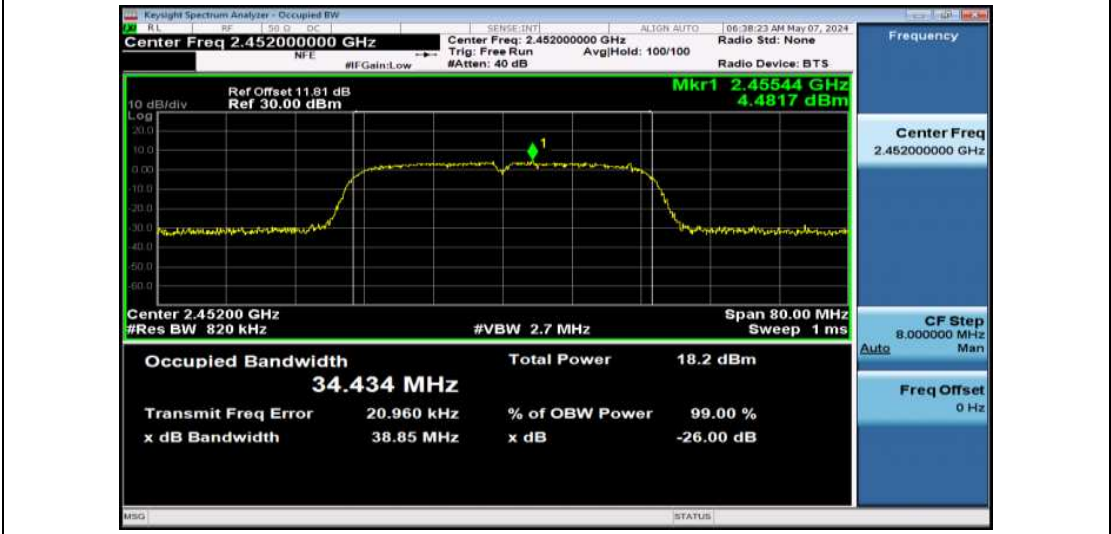
11N20SISO-Ant1-2462



11N40SISO-Ant1-2422



11N40SISO-Ant1-2437



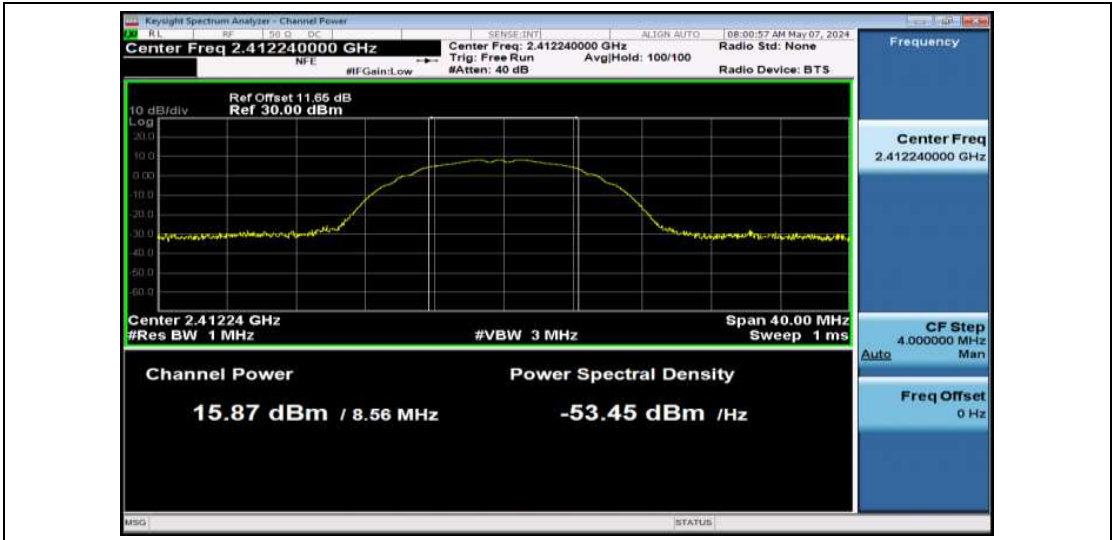
11N40SISO-Ant1-2452

Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	15.87	0	15.87	≤30.00	3.00	18.87	≤36.00	PASS
11B	Ant1	2437	16.23	0	16.23	≤30.00	3.00	19.23	≤36.00	PASS
11B	Ant1	2462	15.78	0	15.78	≤30.00	3.00	18.78	≤36.00	PASS
11G	Ant1	2412	19.38	0	19.38	≤30.00	3.00	22.38	≤36.00	PASS
11G	Ant1	2437	20.65	0	20.65	≤30.00	3.00	23.65	≤36.00	PASS
11G	Ant1	2462	19.50	0	19.50	≤30.00	3.00	22.50	≤36.00	PASS
11N20SISO	Ant1	2412	18.39	0	18.39	≤30.00	3.00	21.39	≤36.00	PASS
11N20SISO	Ant1	2437	19.45	0	19.45	≤30.00	3.00	22.45	≤36.00	PASS
11N20SISO	Ant1	2462	18.76	0	18.76	≤30.00	3.00	21.76	≤36.00	PASS
11N40SISO	Ant1	2422	17.82	0	17.82	≤30.00	3.00	20.82	≤36.00	PASS
11N40SISO	Ant1	2437	18.56	0	18.56	≤30.00	3.00	21.56	≤36.00	PASS
11N40SISO	Ant1	2452	18.59	0	18.59	≤30.00	3.00	21.59	≤36.00	PASS

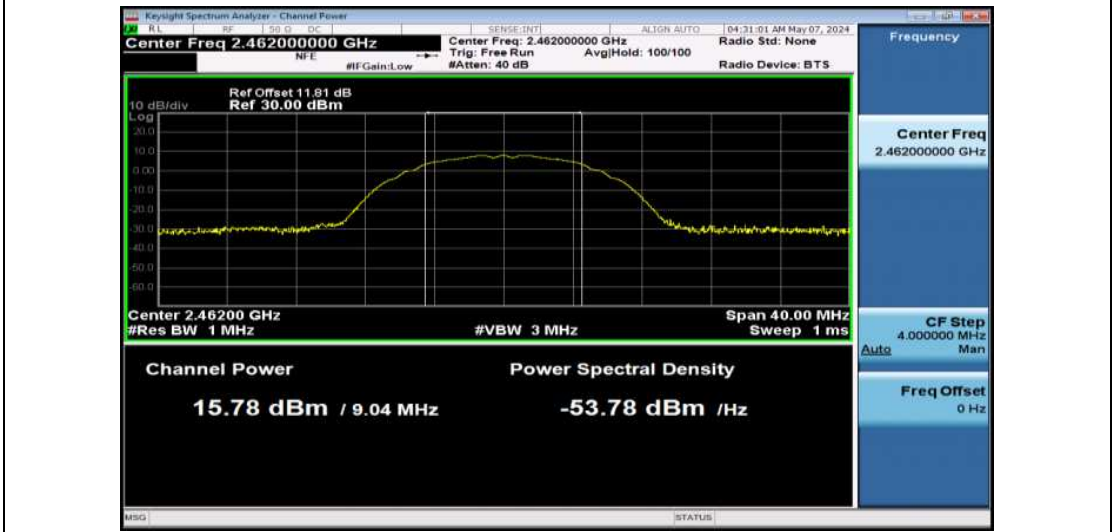
Test Graphs Average



11B-Ant1-2412-PASS



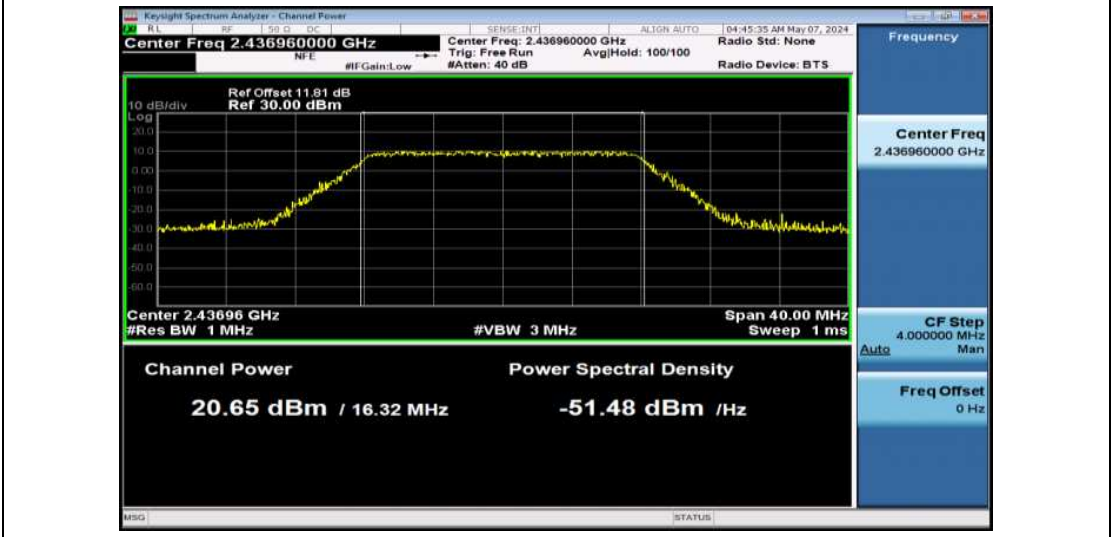
11B-Ant1-2437-PASS



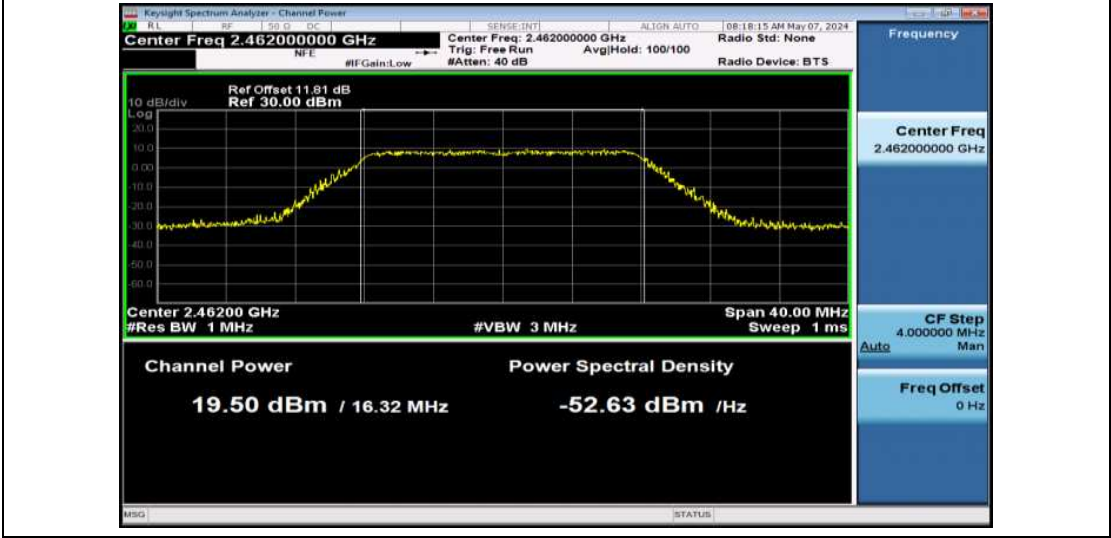
11B-Ant1-2462-PASS



11G-Ant1-2412-PASS



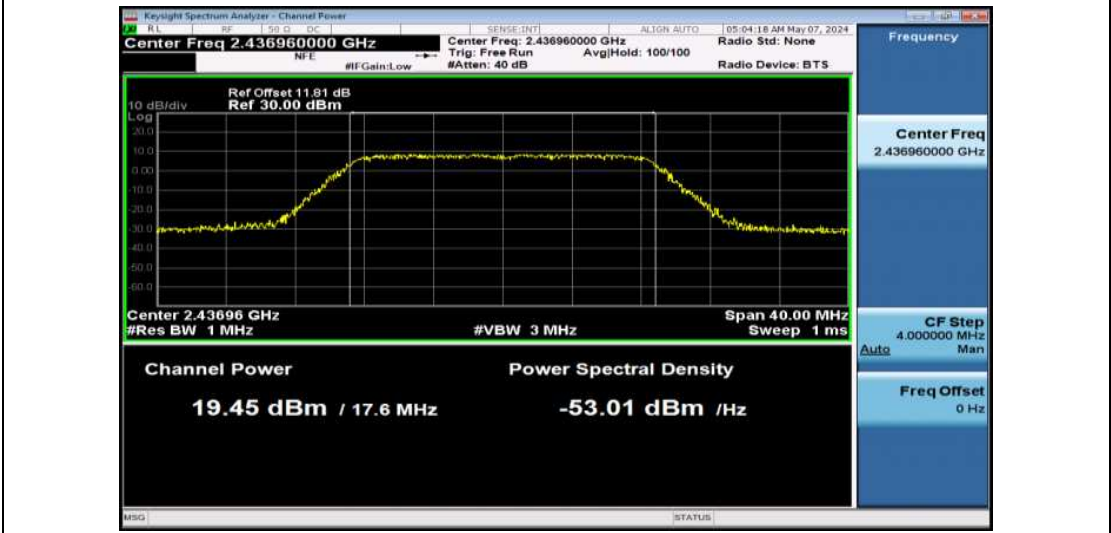
11G-Ant1-2437-PASS



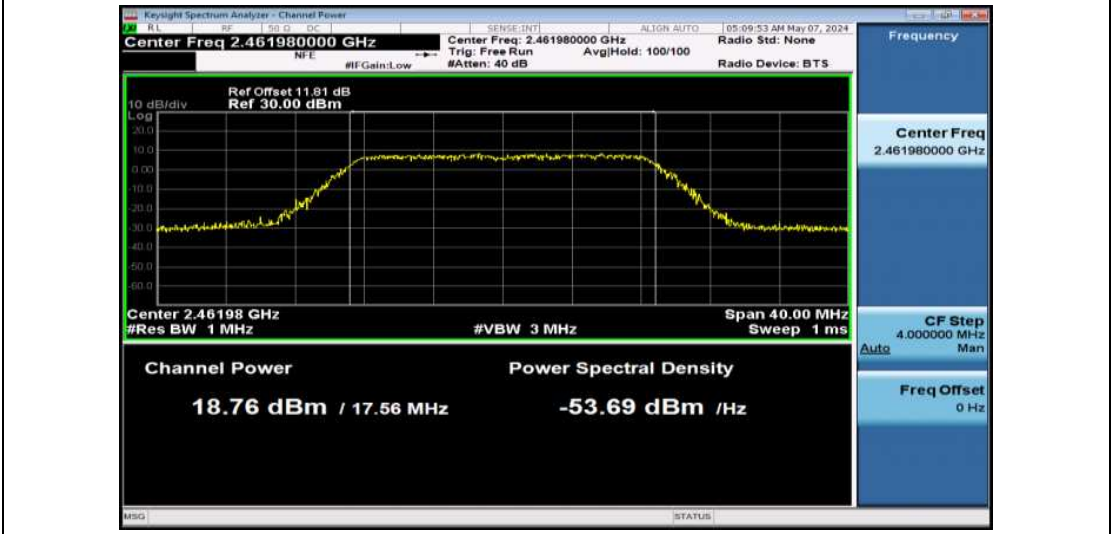
11G-Ant1-2462-PASS



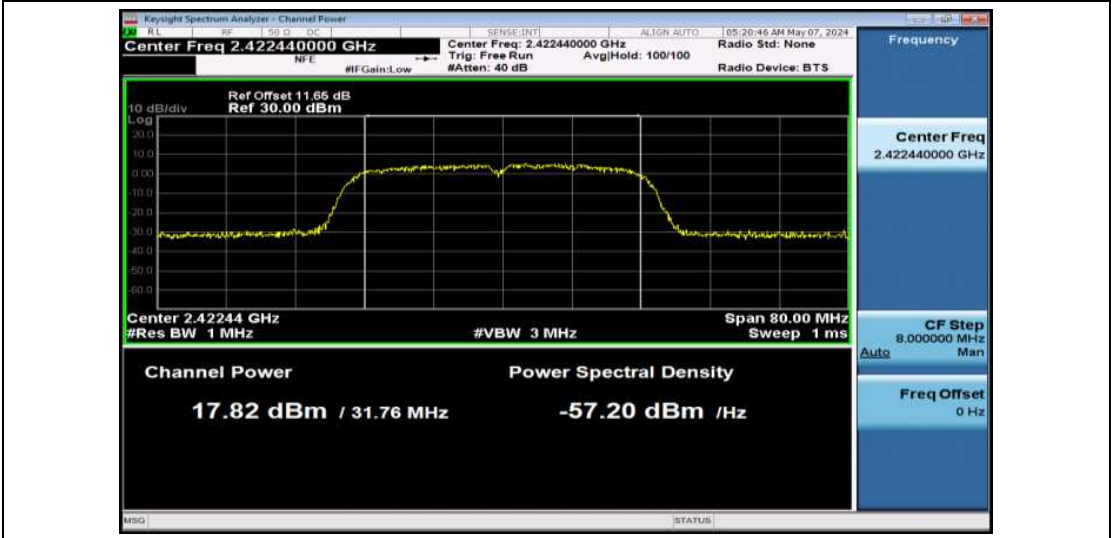
11N20SISO-Ant1-2412-PASS



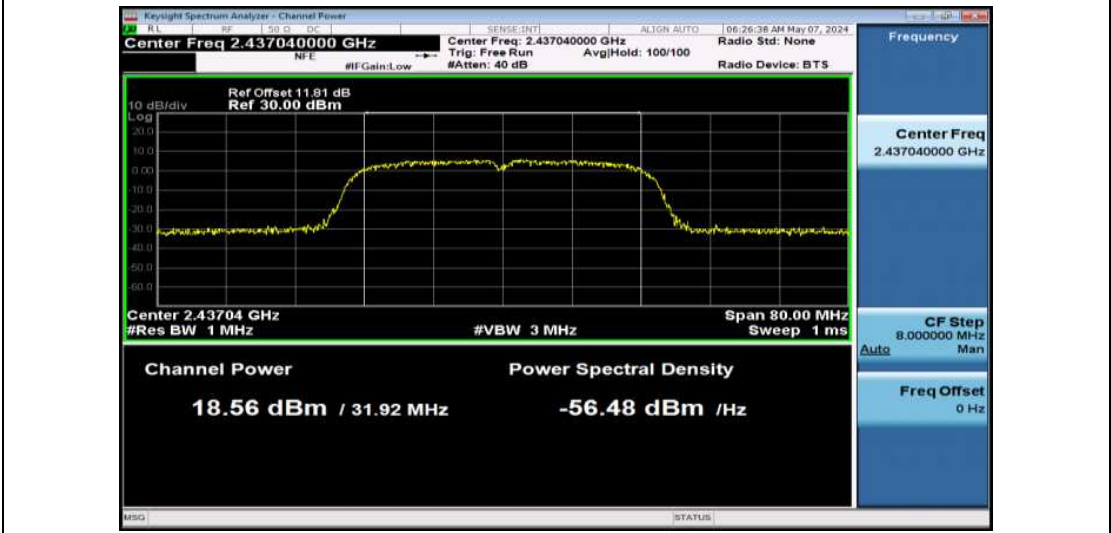
11N20SISO-Ant1-2437-PASS



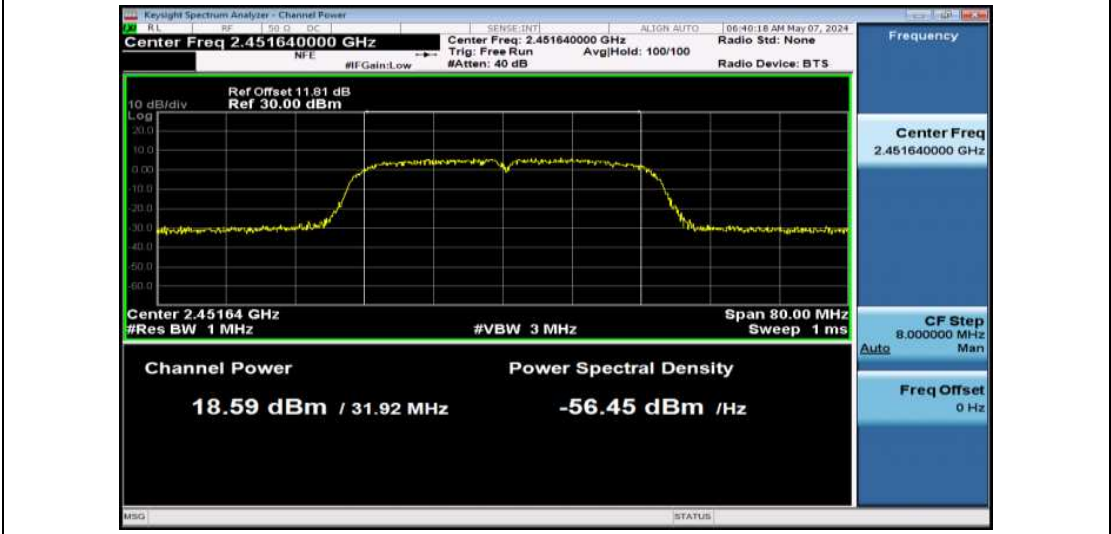
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



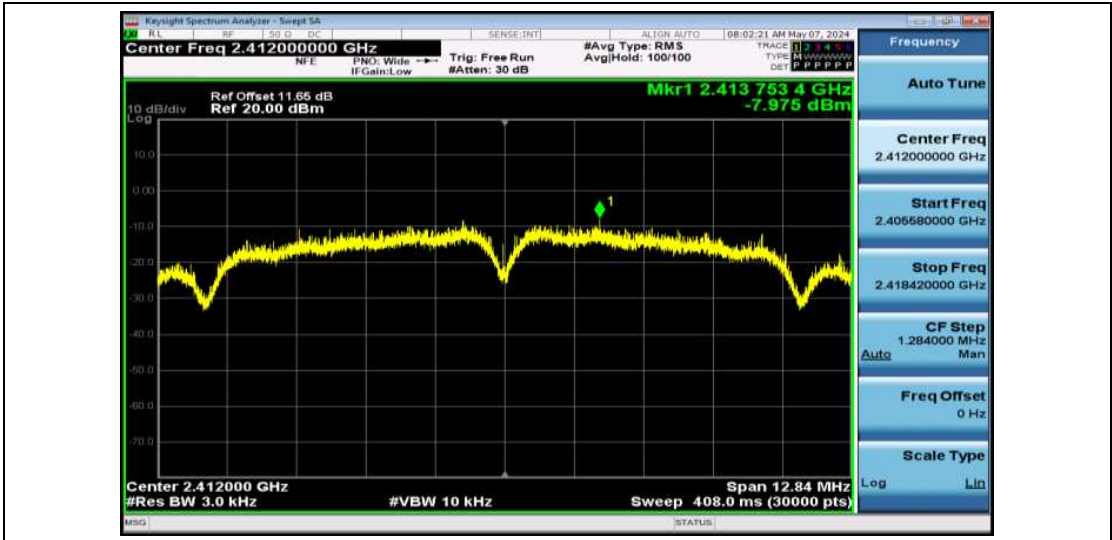
11N40SISO-Ant1-2452-PASS

Maximum power spectral density

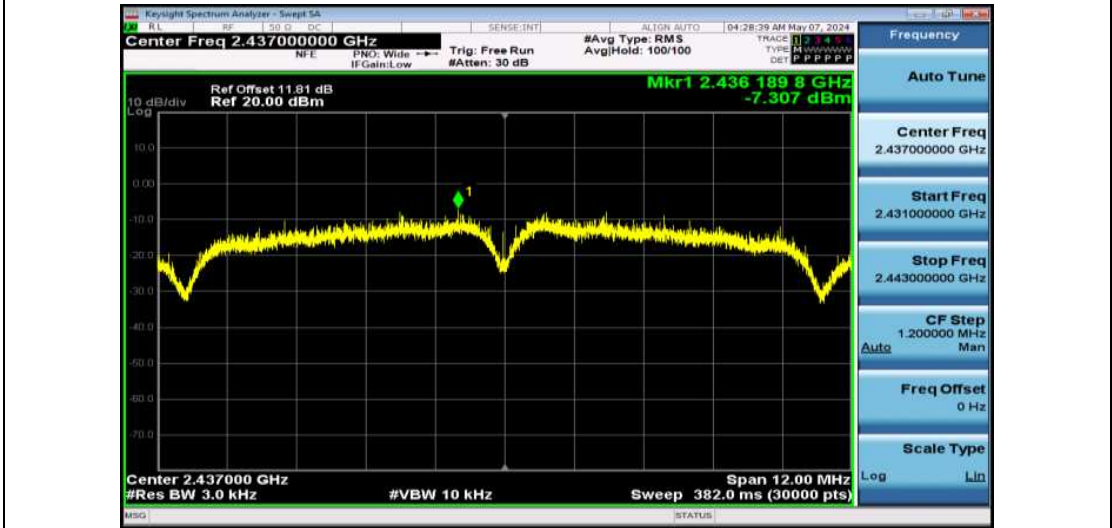
Test Result

TestMode	Antenna	Frequency [MHz]	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-7.98	≤8.00	PASS
11B	Ant1	2437	-7.31	≤8.00	PASS
11B	Ant1	2462	-8.39	≤8.00	PASS
11G	Ant1	2412	-13.19	≤8.00	PASS
11G	Ant1	2437	-11.84	≤8.00	PASS
11G	Ant1	2462	-13.04	≤8.00	PASS
11N20SISO	Ant1	2412	-13.56	≤8.00	PASS
11N20SISO	Ant1	2437	-12.05	≤8.00	PASS
11N20SISO	Ant1	2462	-12.84	≤8.00	PASS
11N40SISO	Ant1	2422	-15.55	≤8.00	PASS
11N40SISO	Ant1	2437	-14.78	≤8.00	PASS
11N40SISO	Ant1	2452	-15.11	≤8.00	PASS

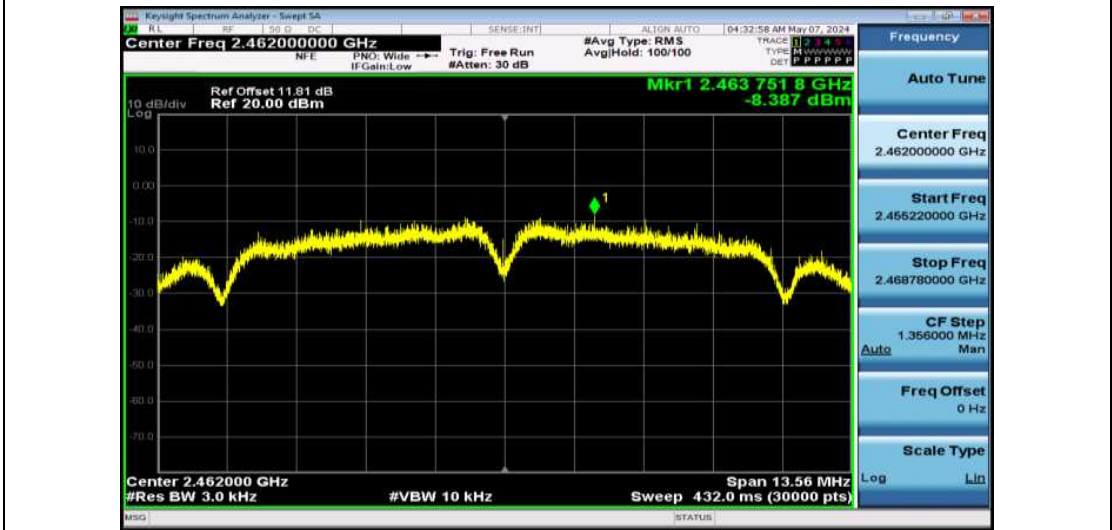
Test Graphs



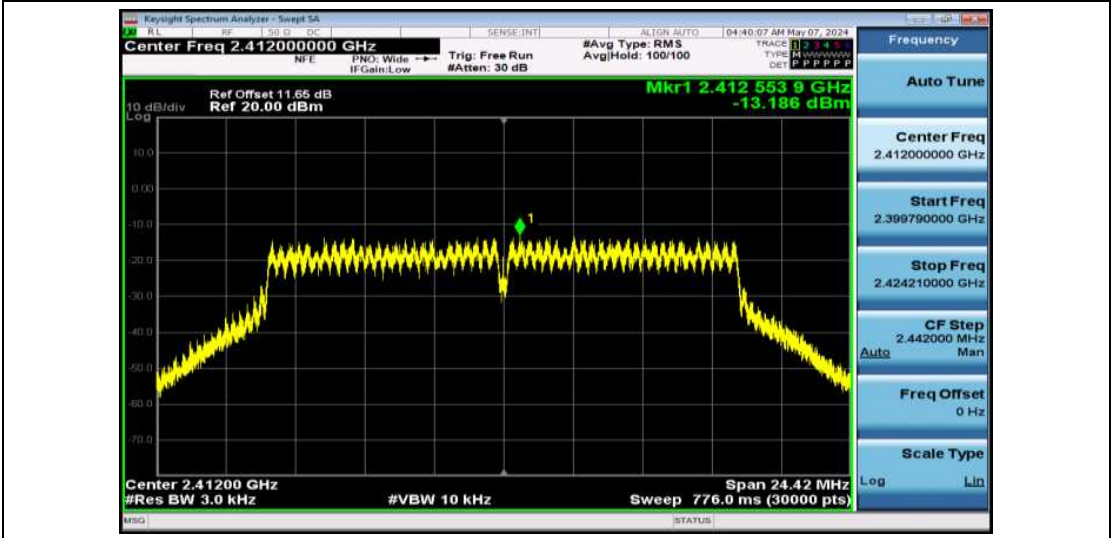
11B-Ant1-2412-PASS



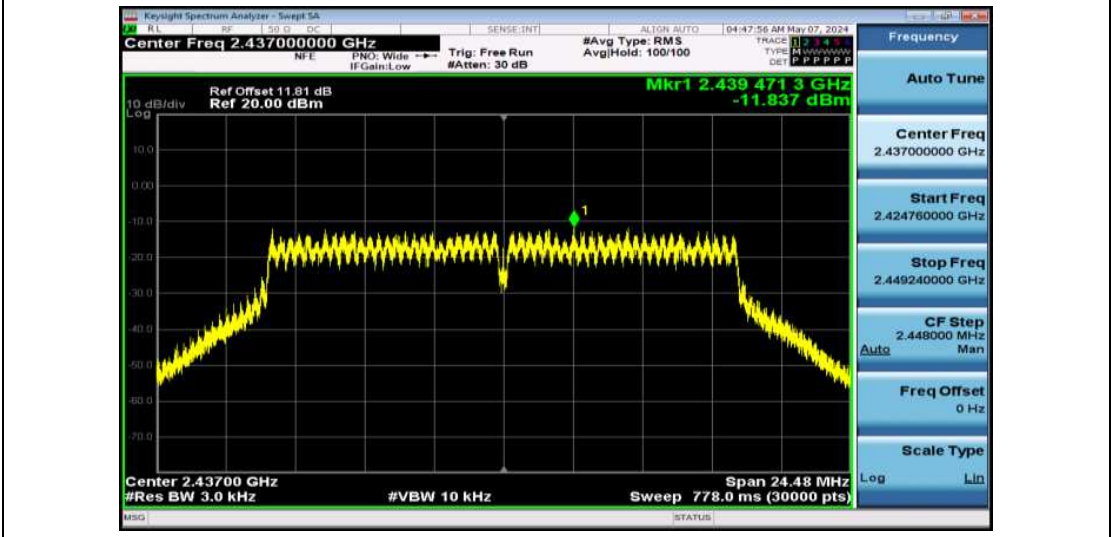
11B-Ant1-2437-PASS



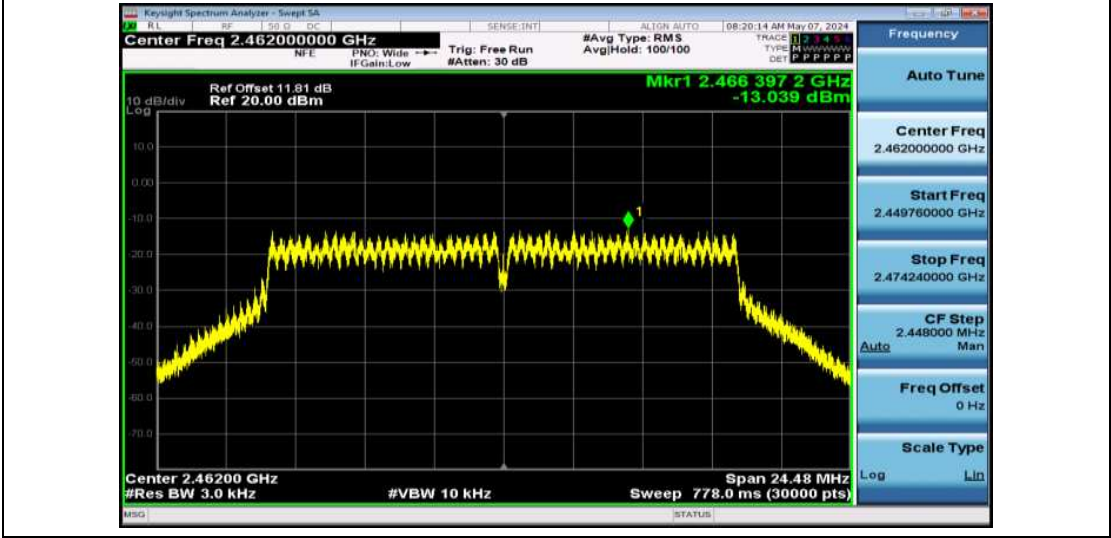
11B-Ant1-2462-PASS



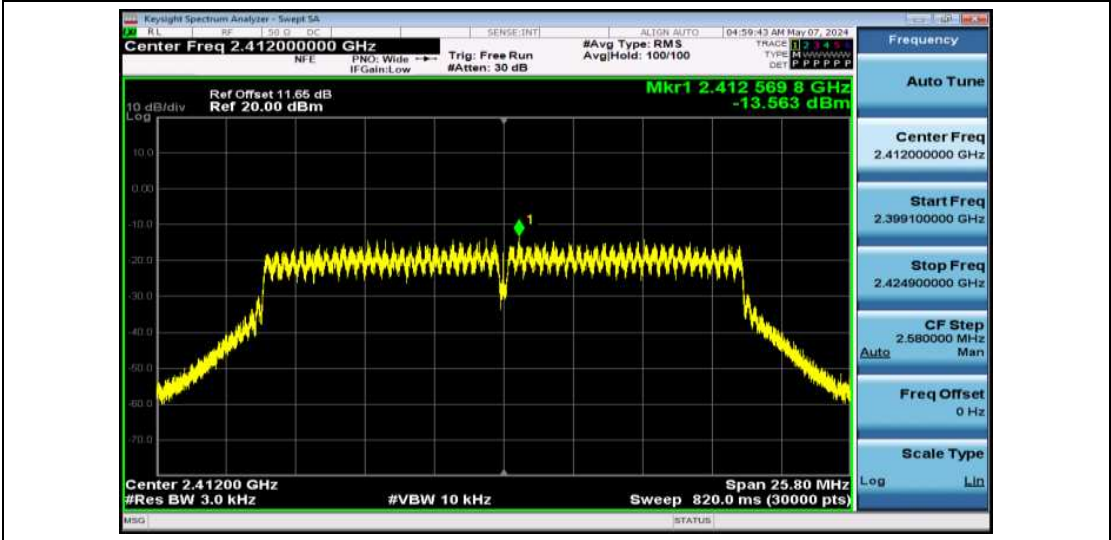
11G-Ant1-2412-PASS



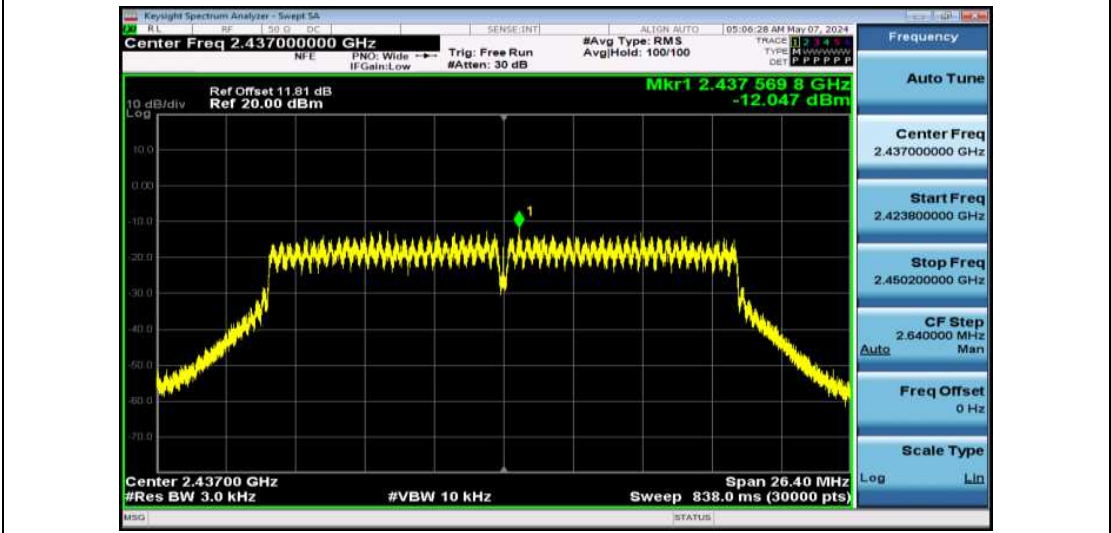
11G-Ant1-2437-PASS



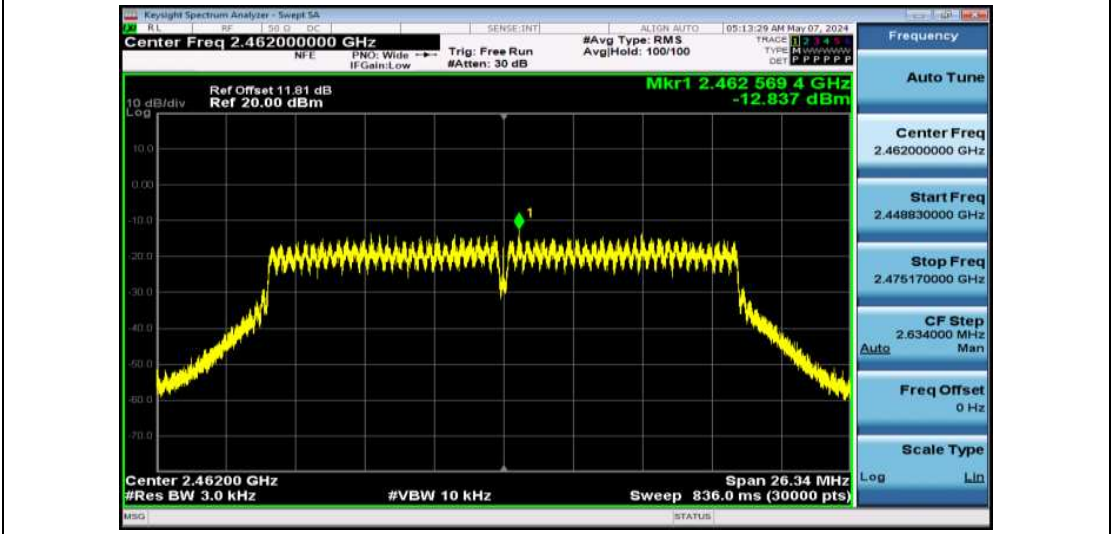
11G-Ant1-2462-PASS



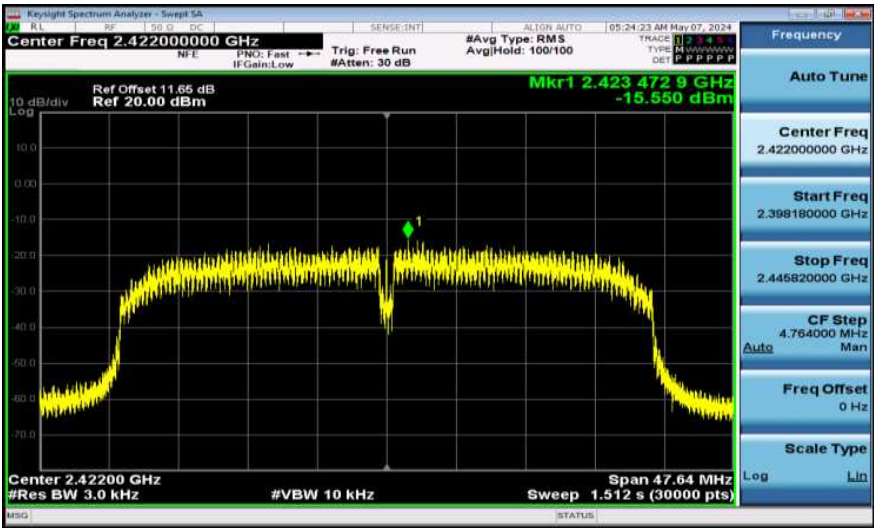
11N20SISO-Ant1-2412-PASS



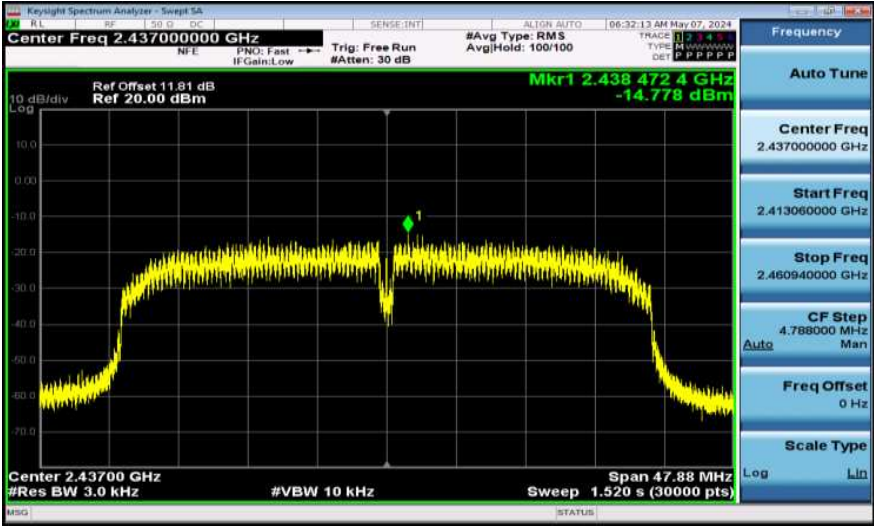
11N20SISO-Ant1-2437-PASS



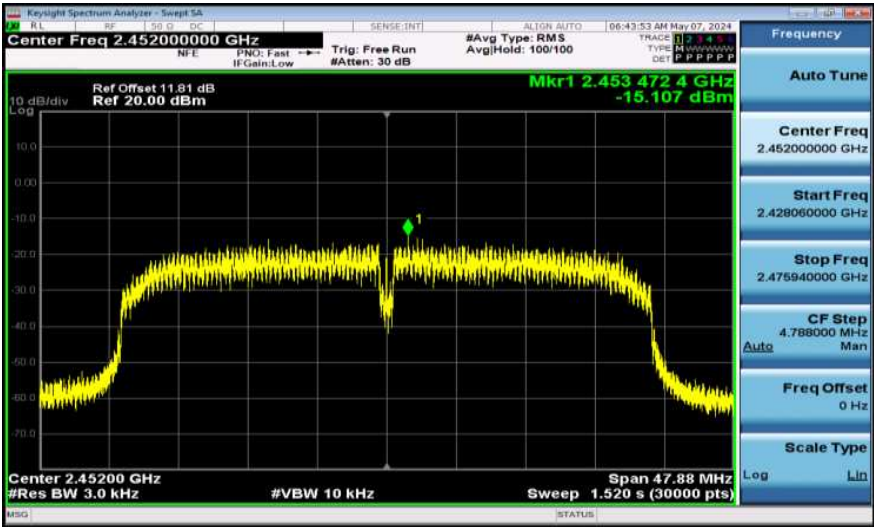
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS

Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2412.98	4.47
11B	Ant1	2437	2437.97	5.12
11B	Ant1	2462	2461.46	4.00
11G	Ant1	2412	2415.69	-0.67
11G	Ant1	2437	2438.25	0.12
11G	Ant1	2462	2468.19	-0.57
11N20SISO	Ant1	2412	2410.74	-1.77
11N20SISO	Ant1	2437	2431.96	0.63
11N20SISO	Ant1	2462	2463.24	-1.10
11N40SISO	Ant1	2422	2419.48	-3.25
11N40SISO	Ant1	2437	2434.51	-3.24
11N40SISO	Ant1	2452	2443.24	-3.10

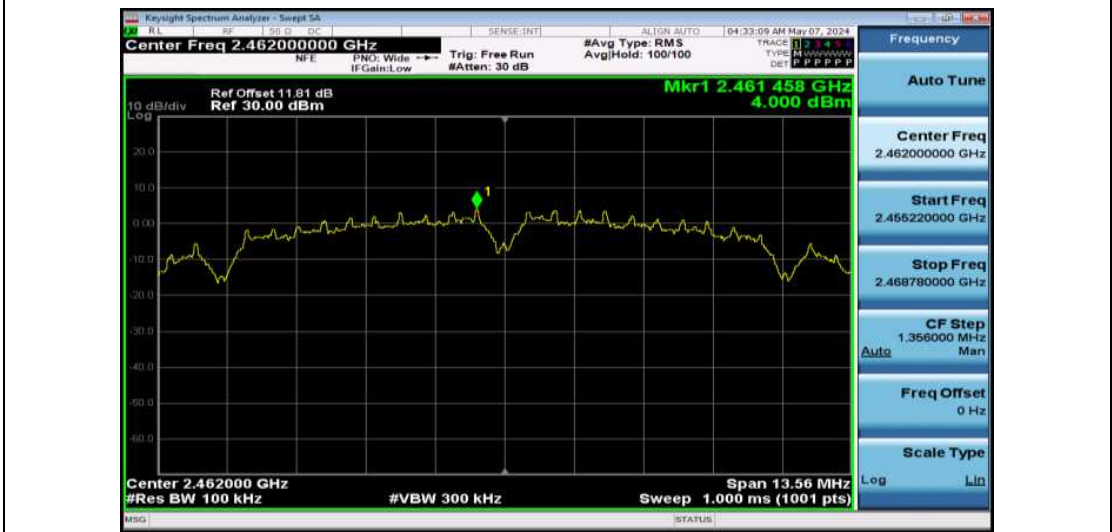
Test Graphs



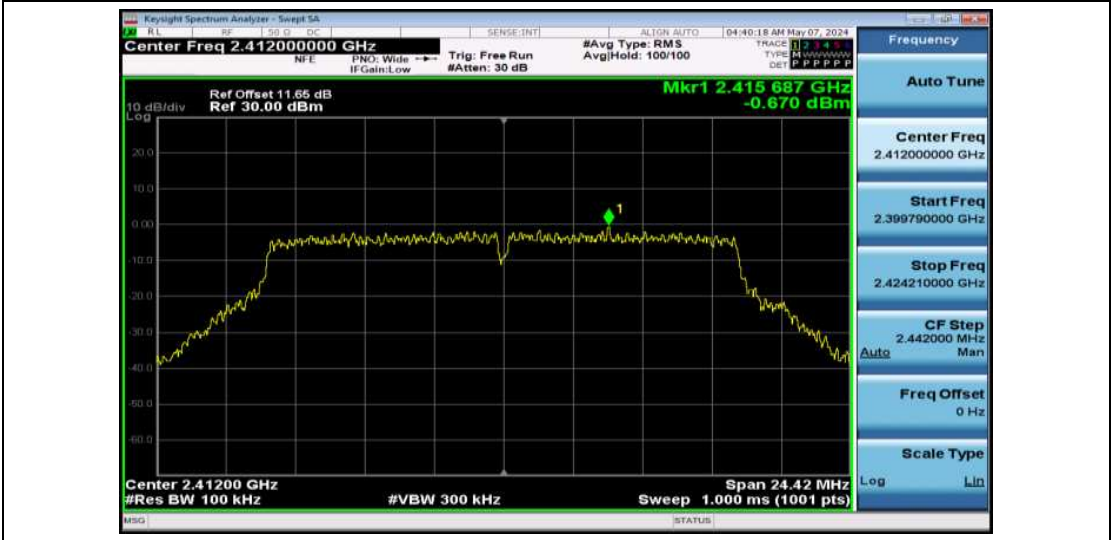
11B-Ant1-2412-PASS



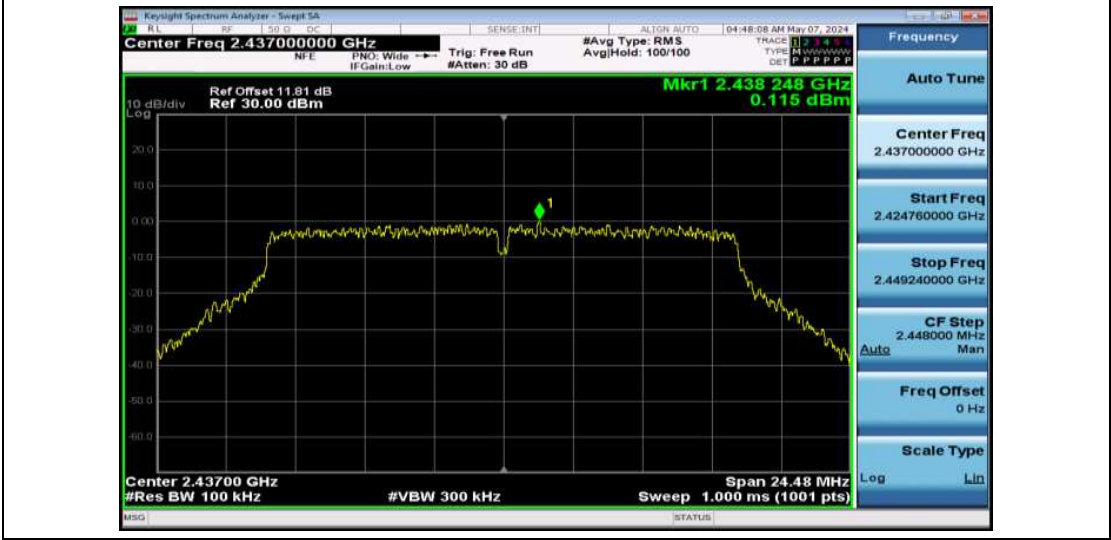
11B-Ant1-2437-PASS



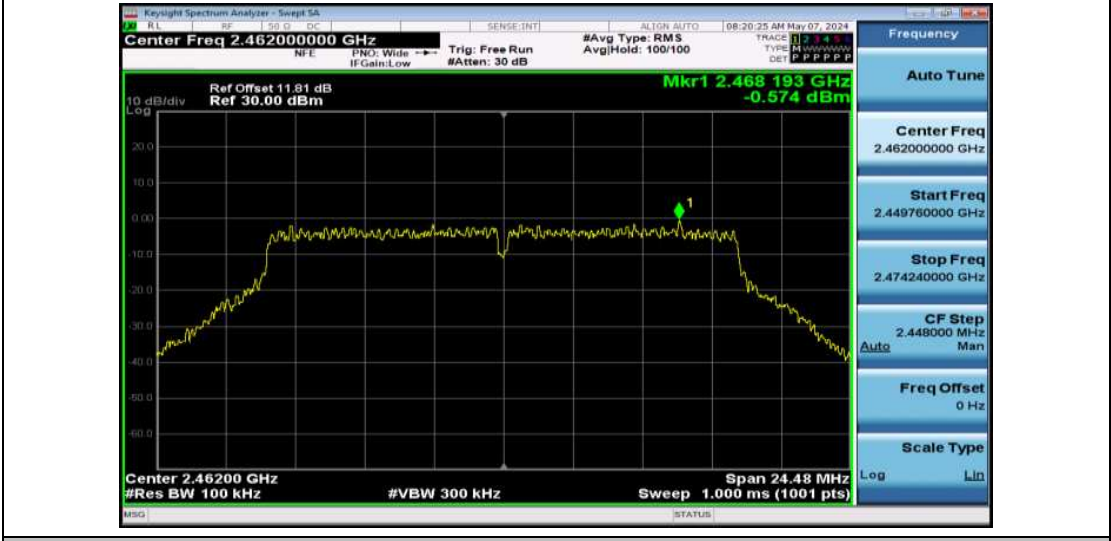
11B-Ant1-2462-PASS



11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.46200000 GHz

Ref Offset 11.81 dB
Ref 30.00 dBm

Mkr1 2.463 238 GHz
-1.095 dBm

Center 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz

Span 26.34 MHz
Sweep 1.000 ms (1001 pts)

Frequency

Auto Tune

Center Freq
2.46200000 GHz

Start Freq
2.448830000 GHz

Stop Freq
2.475170000 GHz

CF Step
2.634000 MHz
Auto Man

Freq Offset
0 Hz

Scale Type
Log Lin

11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS

Band edge measurements

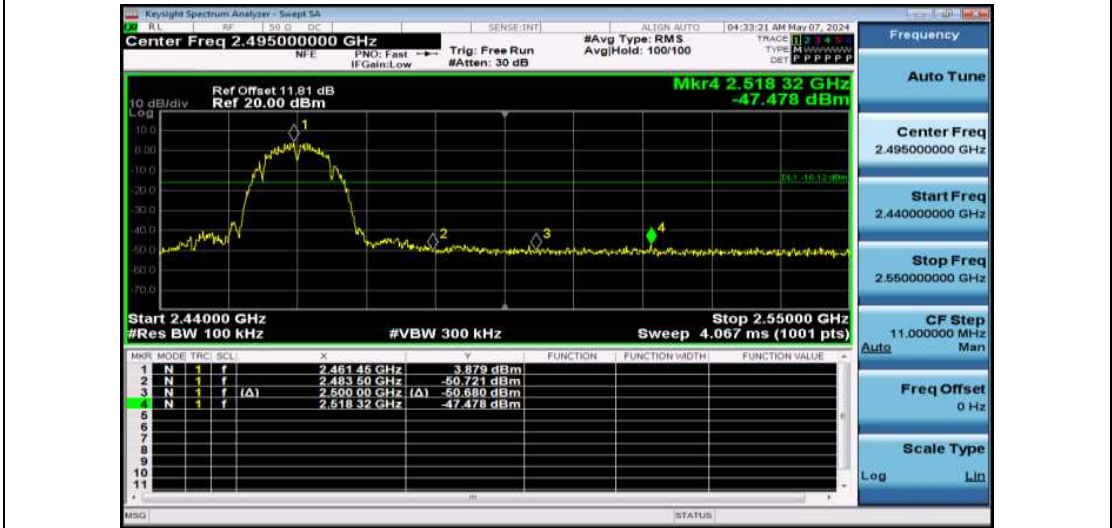
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.80	-41.33	≤-15.2	PASS
11B	Ant1	High	2462	3.88	-47.48	≤-16.12	PASS
11G	Ant1	Low	2412	0.73	-35.41	≤-19.27	PASS
11G	Ant1	High	2462	-2.42	-44.87	≤-22.42	PASS
11N20SISO	Ant1	Low	2412	-1.59	-35.69	≤-21.59	PASS
11N20SISO	Ant1	High	2462	0.06	-45.14	≤-19.94	PASS
11N40SISO	Ant1	Low	2422	-3.49	-43.66	≤-23.49	PASS
11N40SISO	Ant1	High	2452	-3.57	-47.1	≤-23.57	PASS

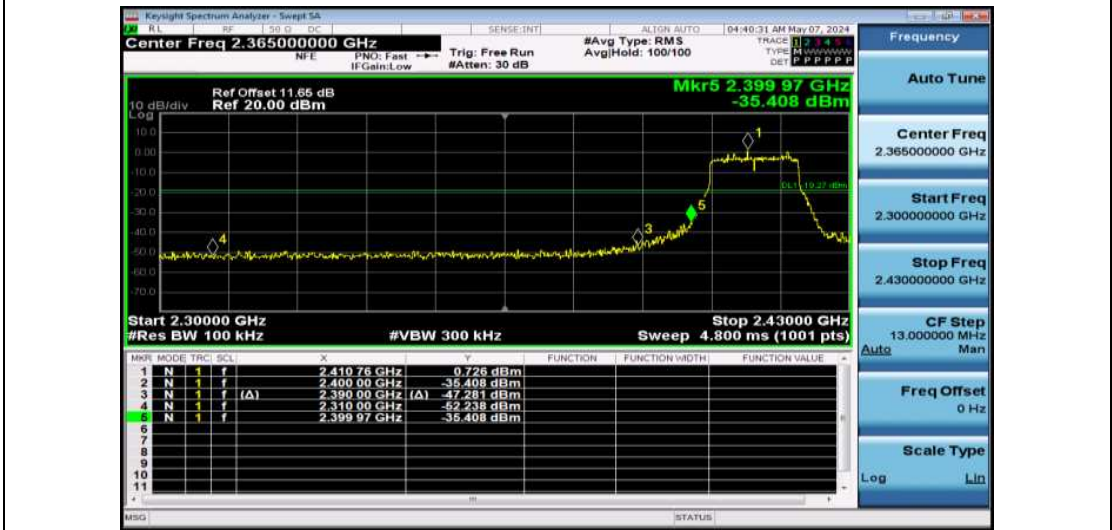
Test Graphs



11B-Ant1-2412-PASS



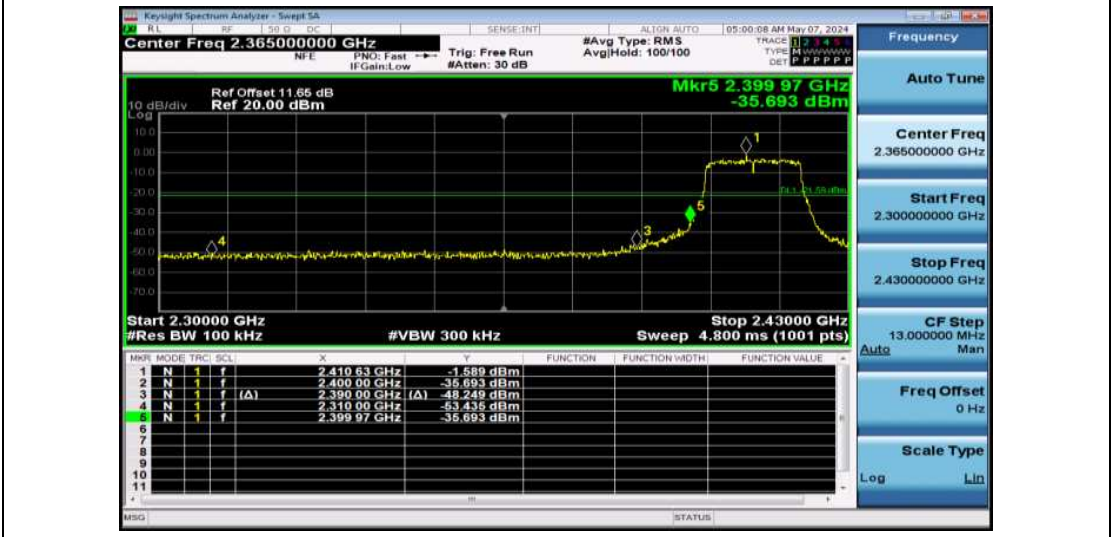
11B-Ant1-2462-PASS



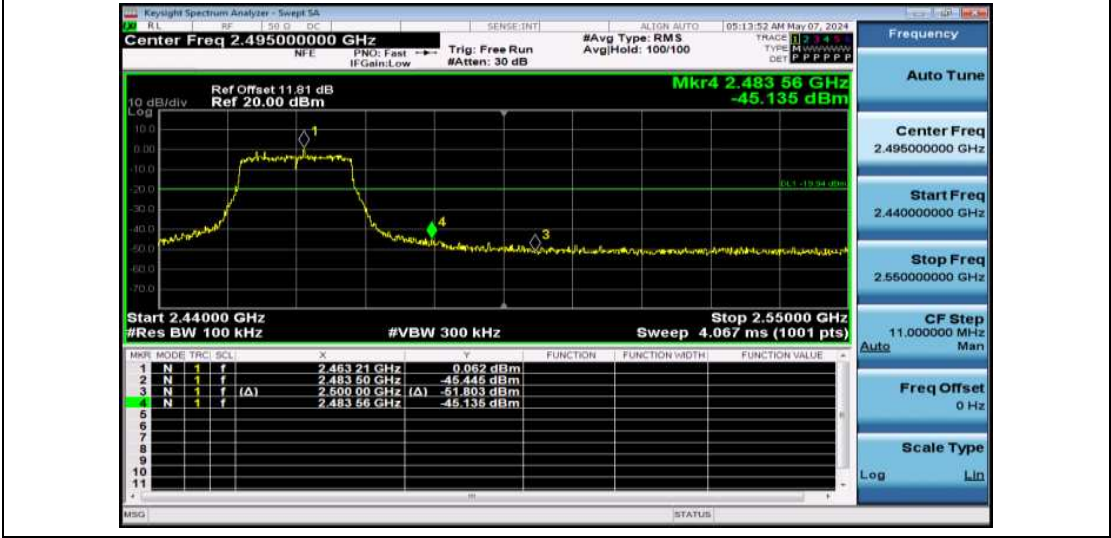
11G-Ant1-2412-PASS



11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



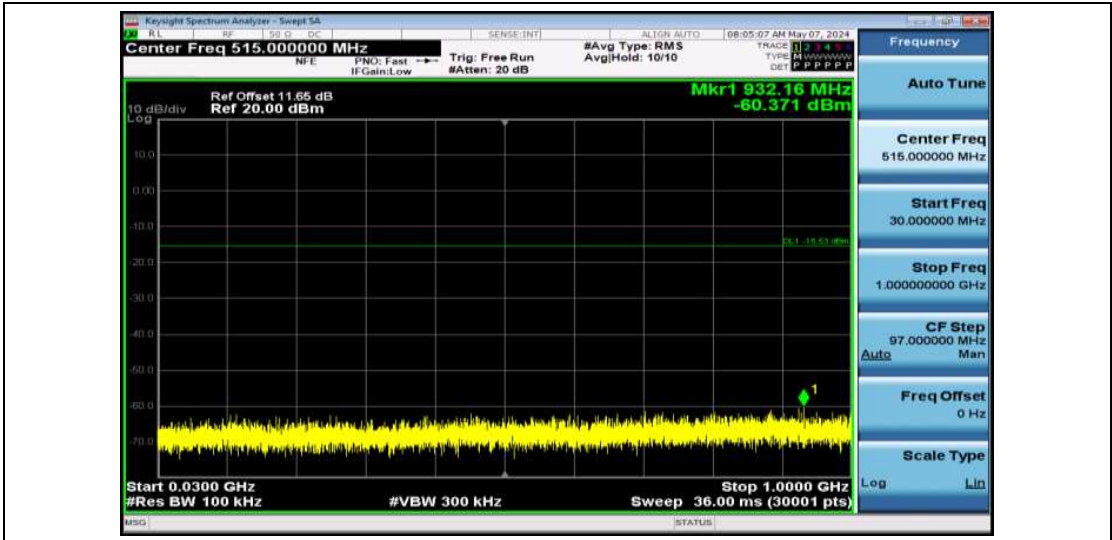
11N40SISO-Ant1-2452-PASS

Conducted Spurious Emission

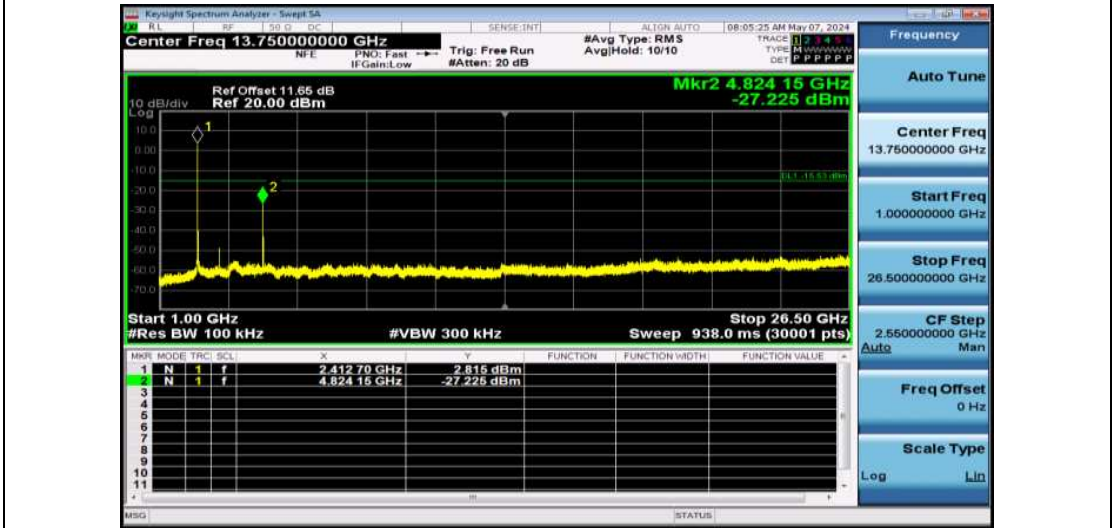
Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	4.47	-60.37	≤-15.53	PASS
11B	Ant1	2412	1000~26500	4.47	-27.23	≤-15.53	PASS
11B	Ant1	2437	30~1000	5.12	-60.73	≤-14.88	PASS
11B	Ant1	2437	1000~26500	5.12	-28.77	≤-14.88	PASS
11B	Ant1	2462	30~1000	4.00	-61.25	≤-16	PASS
11B	Ant1	2462	1000~26500	4.00	-29.23	≤-16	PASS
11G	Ant1	2412	30~1000	-0.67	-60.54	≤-20.67	PASS
11G	Ant1	2412	1000~26500	-0.67	-40.03	≤-20.67	PASS
11G	Ant1	2437	30~1000	0.12	-60.77	≤-19.88	PASS
11G	Ant1	2437	1000~26500	0.12	-38.73	≤-19.88	PASS
11G	Ant1	2462	30~1000	1.13	-61.54	≤-18.87	PASS
11G	Ant1	2462	1000~26500	1.13	-41.15	≤-18.87	PASS
11N20SISO	Ant1	2412	30~1000	-1.77	-60.01	≤-21.77	PASS
11N20SISO	Ant1	2412	1000~26500	-1.77	-42.03	≤-21.77	PASS
11N20SISO	Ant1	2437	30~1000	0.63	-61.05	≤-19.37	PASS
11N20SISO	Ant1	2437	1000~26500	0.63	-41.39	≤-19.37	PASS
11N20SISO	Ant1	2462	30~1000	-1.10	-61.24	≤-21.1	PASS
11N20SISO	Ant1	2462	1000~26500	-1.10	-41.04	≤-21.1	PASS
11N40SISO	Ant1	2422	30~1000	-3.25	-58.22	≤-23.25	PASS
11N40SISO	Ant1	2422	1000~26500	-3.25	-45.5	≤-23.25	PASS
11N40SISO	Ant1	2437	30~1000	-3.24	-55.84	≤-23.24	PASS
11N40SISO	Ant1	2437	1000~26500	-3.24	-45.81	≤-23.24	PASS
11N40SISO	Ant1	2452	30~1000	-3.10	-54.55	≤-23.1	PASS
11N40SISO	Ant1	2452	1000~26500	-3.10	-44.54	≤-23.1	PASS

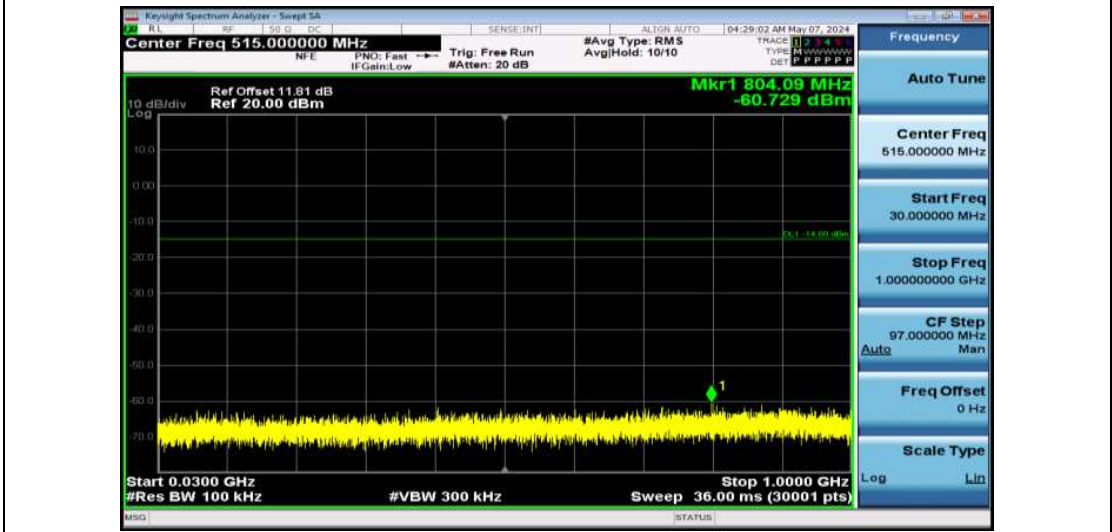
Test Graphs



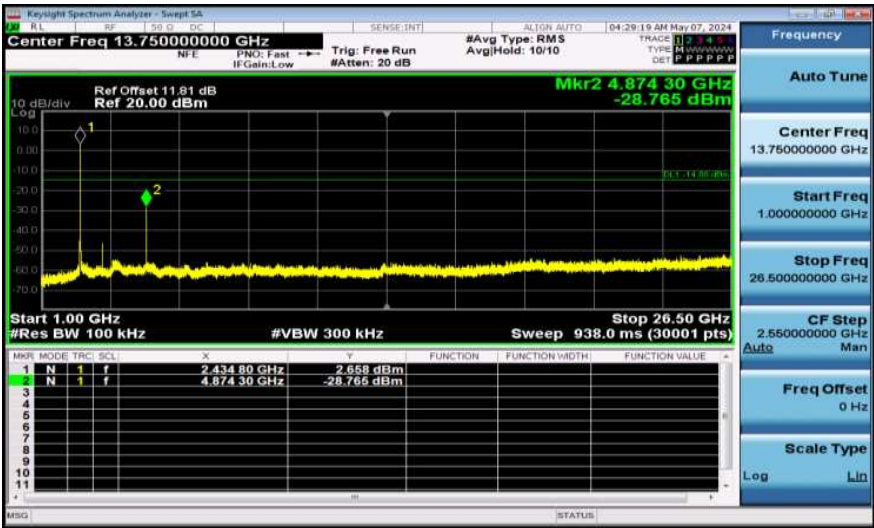
11B-Ant1-2412-30~1000-PASS



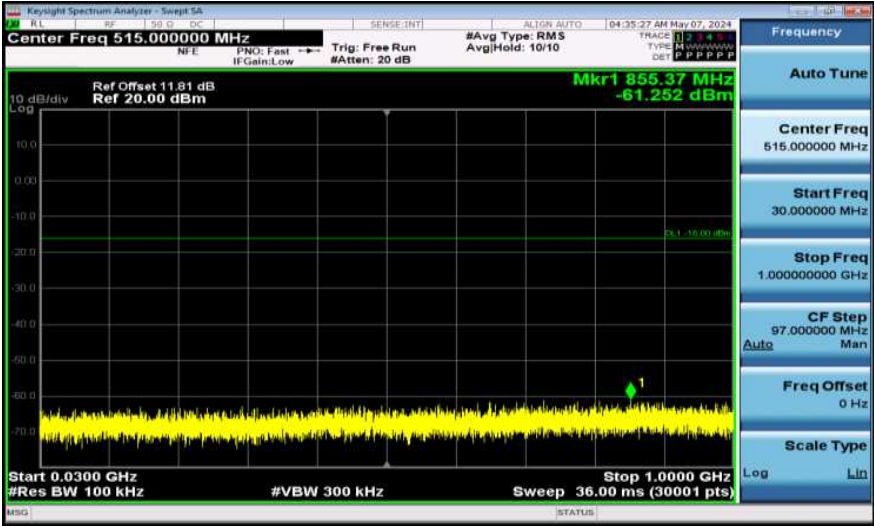
11B-Ant1-2412-1000~26500-PASS



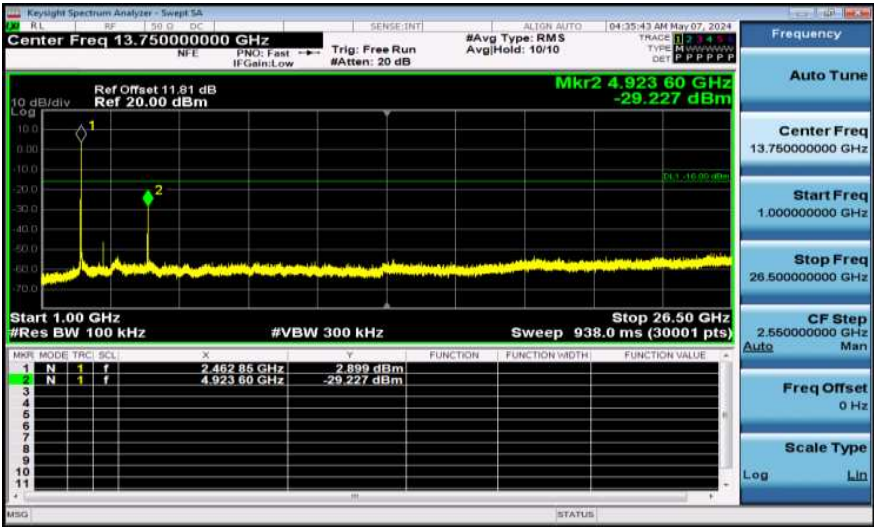
11B-Ant1-2437-30~1000-PASS



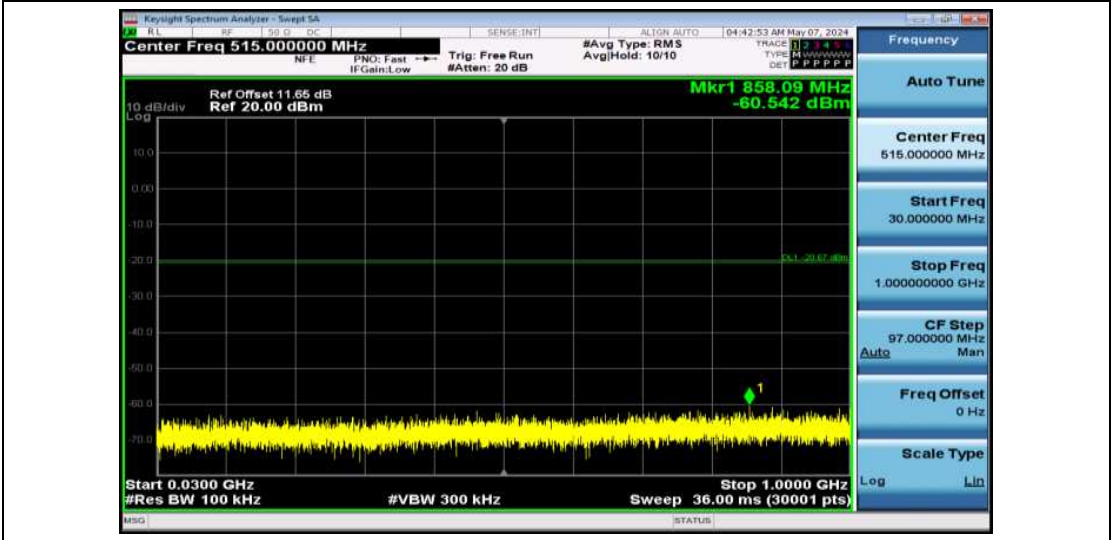
11B-Ant1-2437-1000~26500-PASS



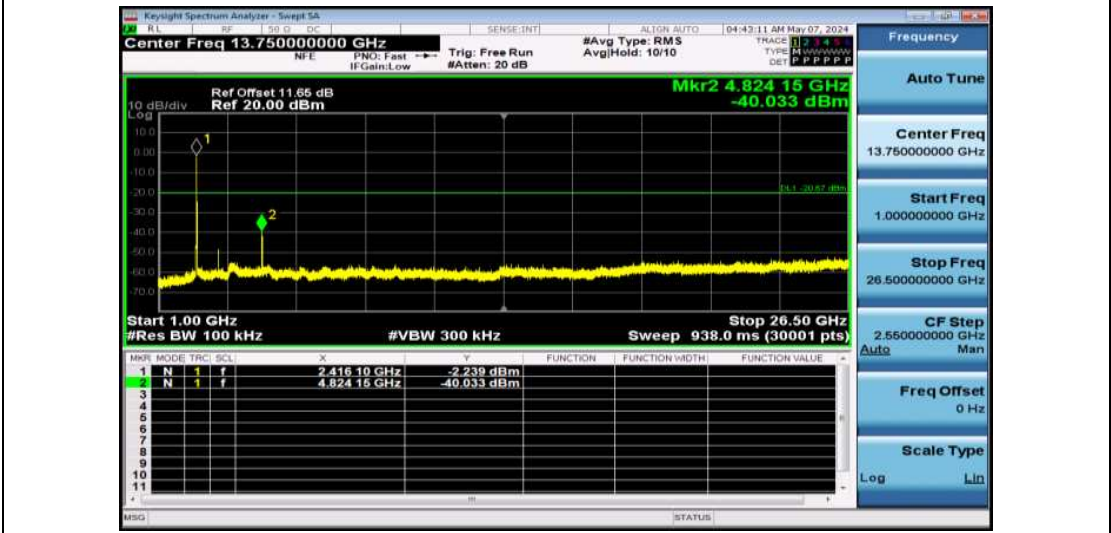
11B-Ant1-2462-30~1000-PASS



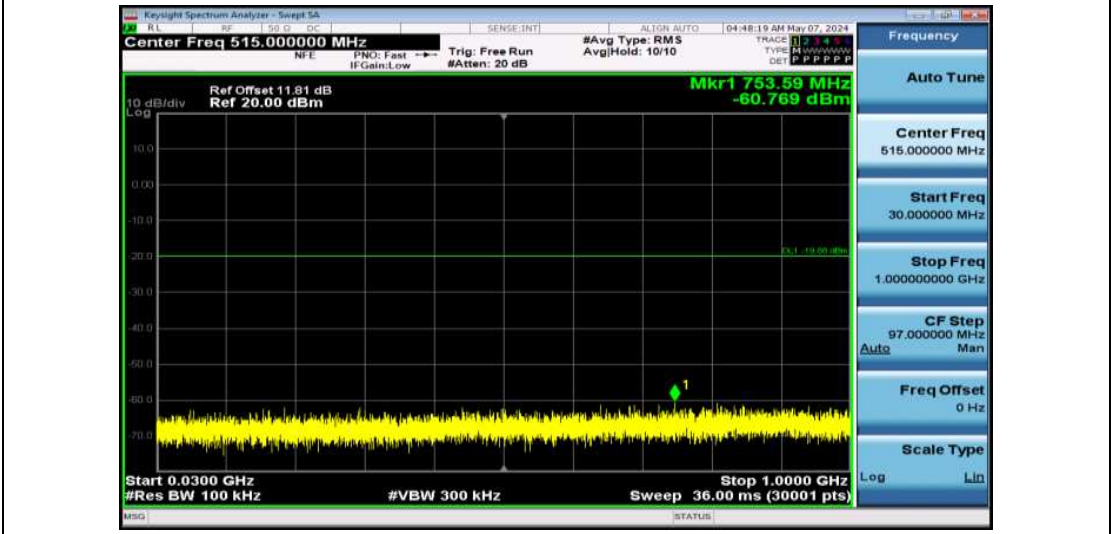
11B-Ant1-2462-1000~26500-PASS



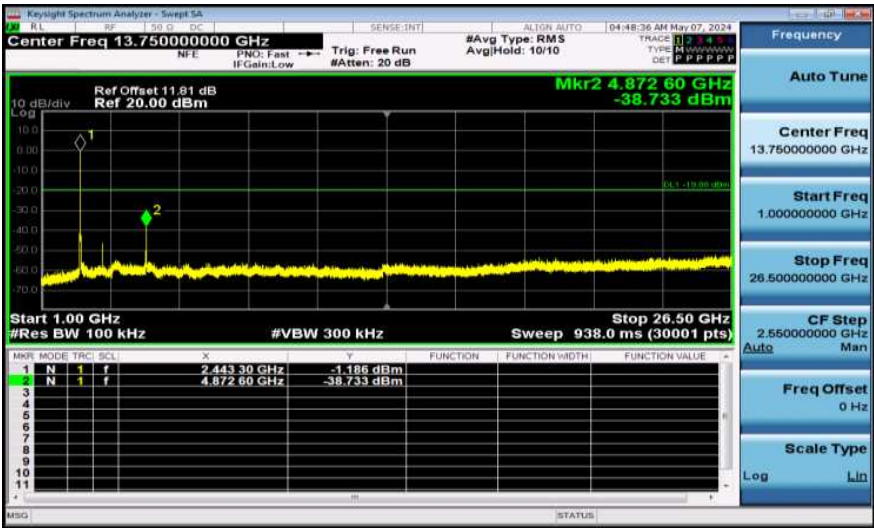
11G-Ant1-2412-30~1000-PASS



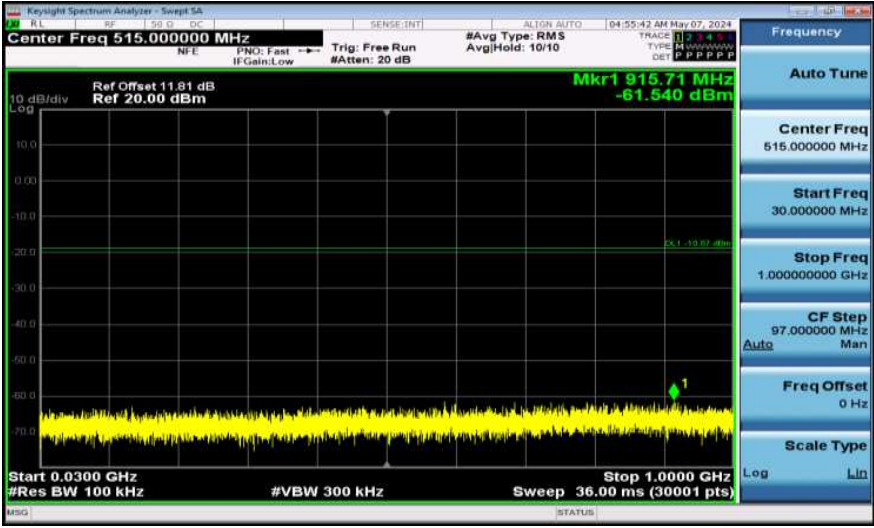
11G-Ant1-2412-1000~26500-PASS



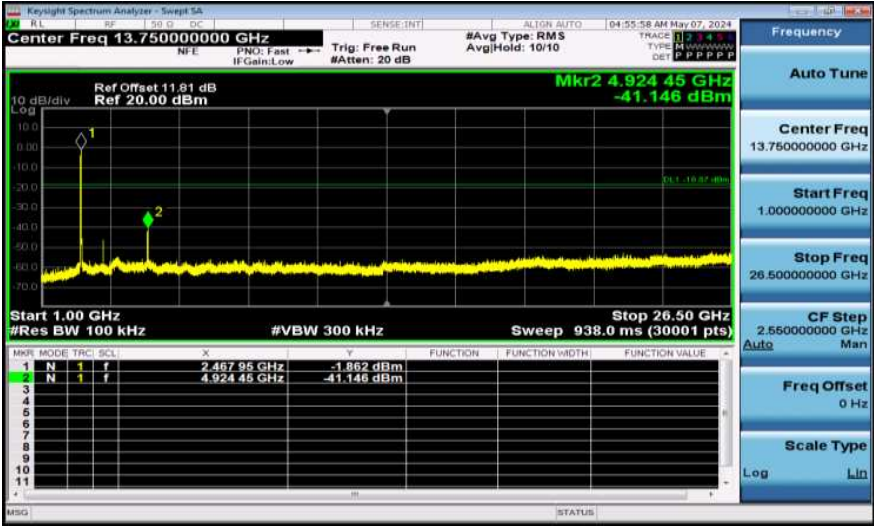
11G-Ant1-2437-30~1000-PASS



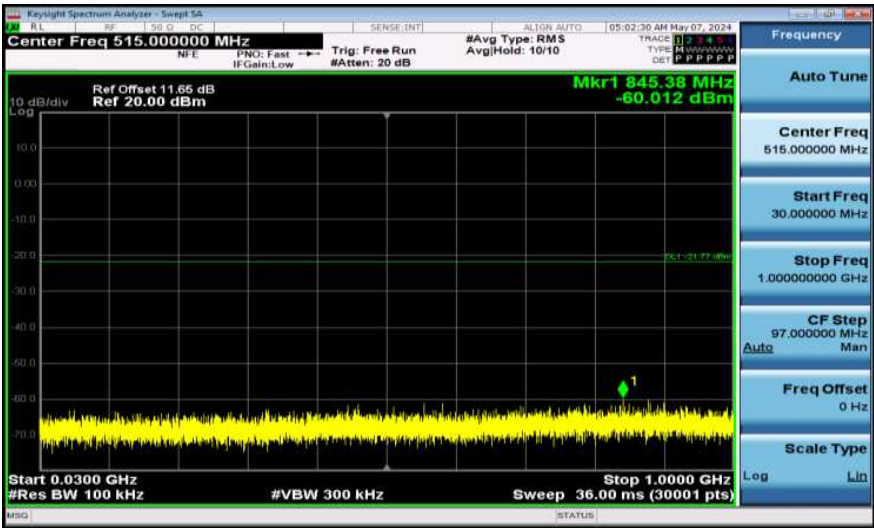
11G-Ant1-2437-1000~26500-PASS



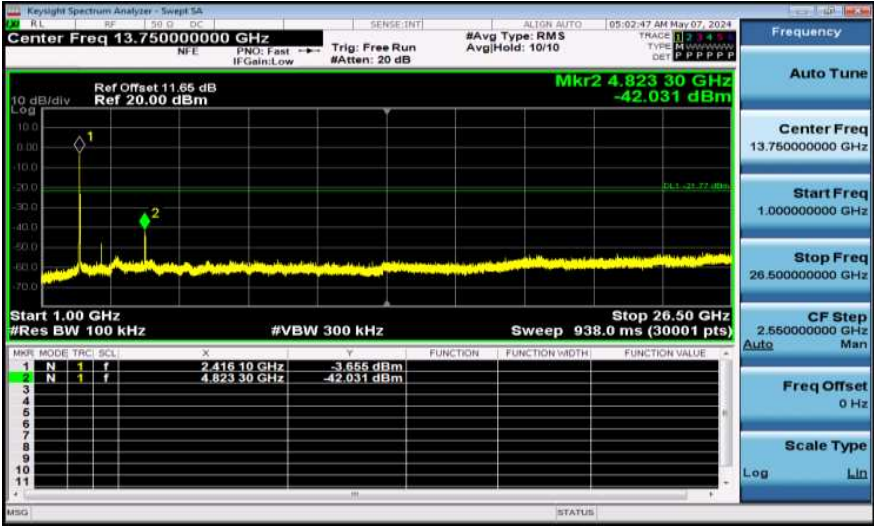
11G-Ant1-2462-30~1000-PASS



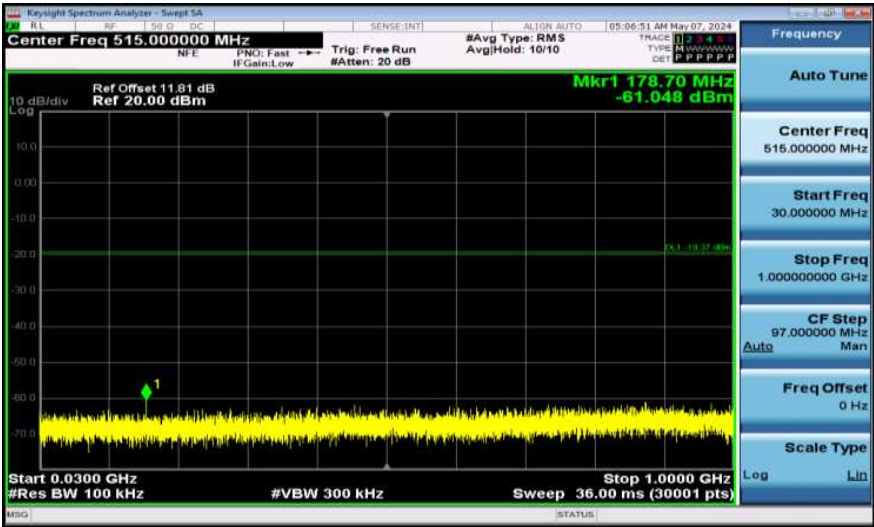
11G-Ant1-2462-1000~26500-PASS



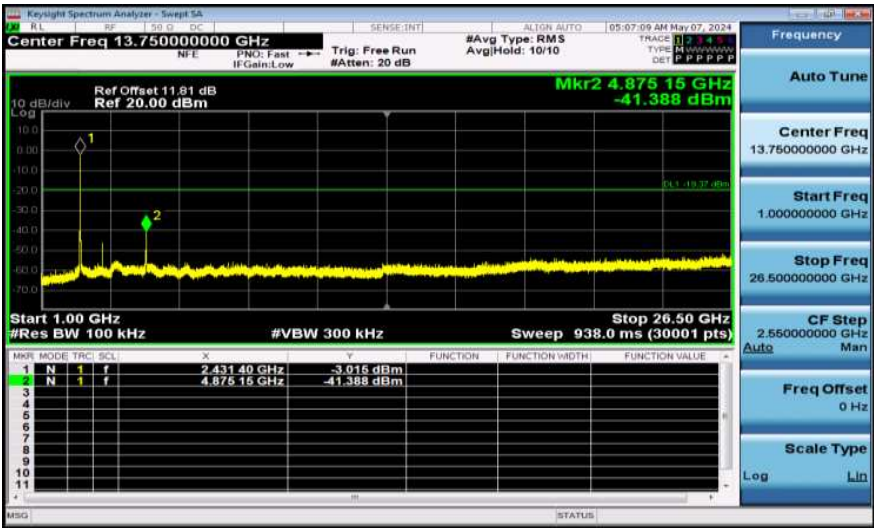
11N20SISO-Ant1-2412-30~1000-PASS



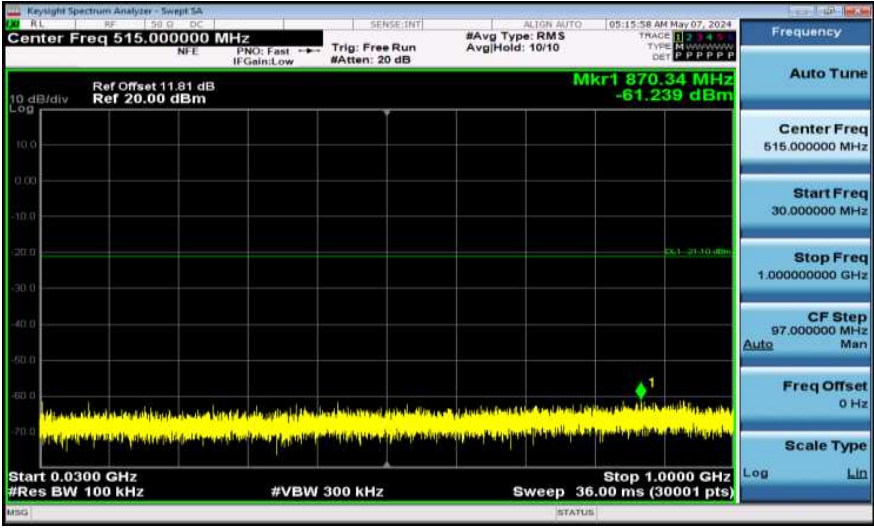
11N20SISO-Ant1-2412-1000~26500-PASS



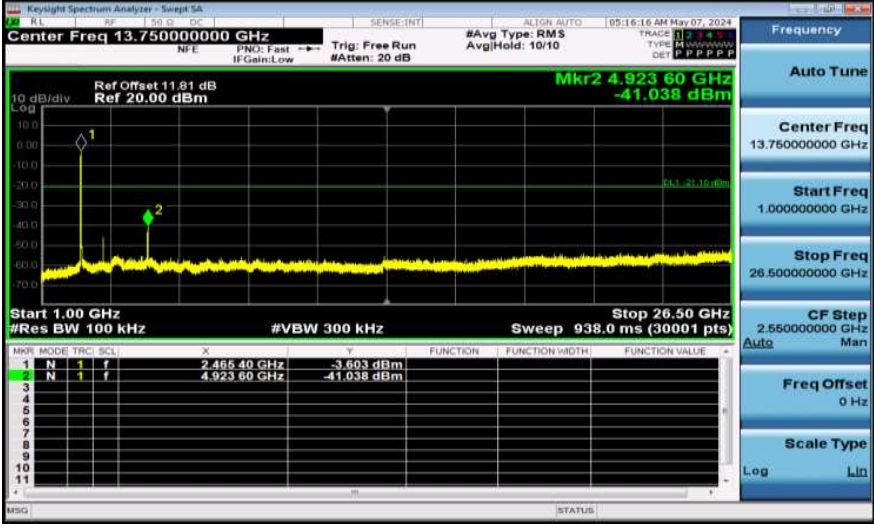
11N20SISO-Ant1-2437-30~1000-PASS



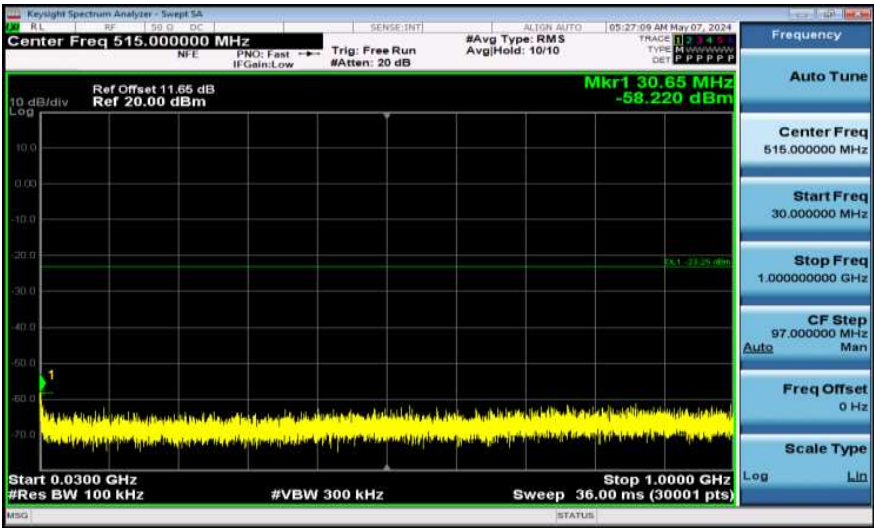
11N20SISO-Ant1-2437-1000~26500-PASS



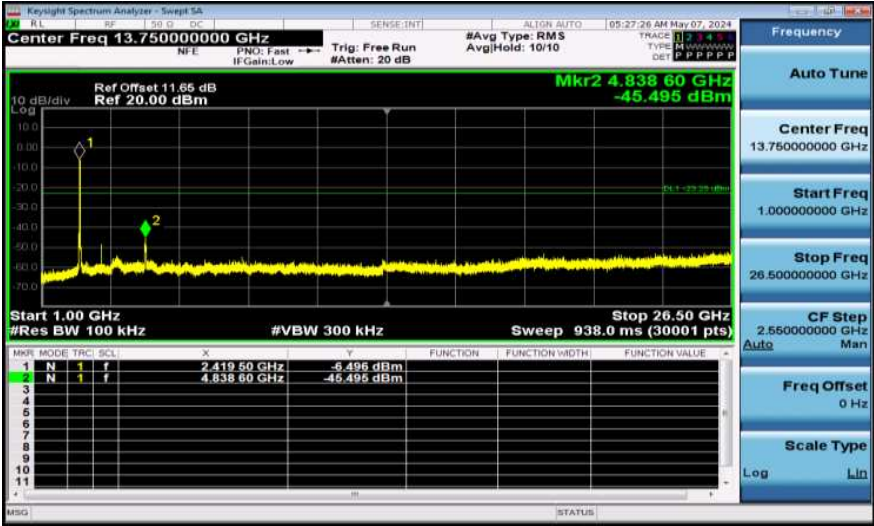
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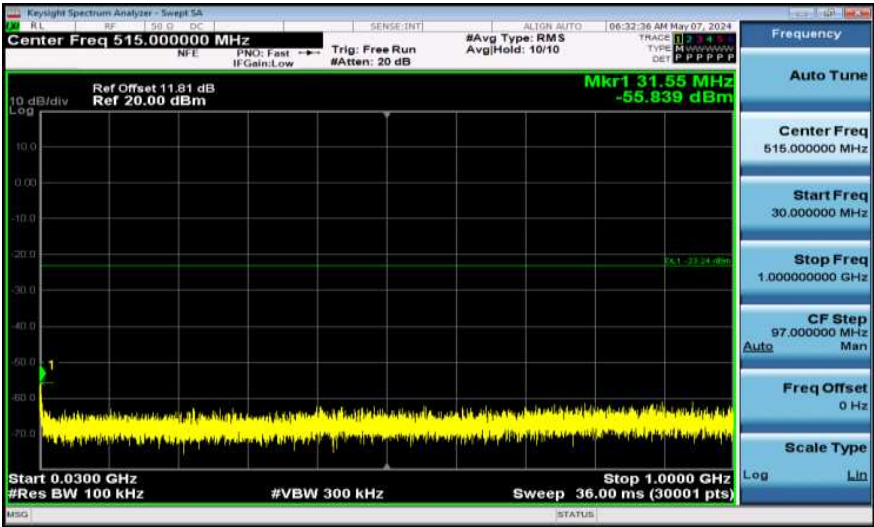
11N20SISO-Ant1-2462-1000~26500-PASS



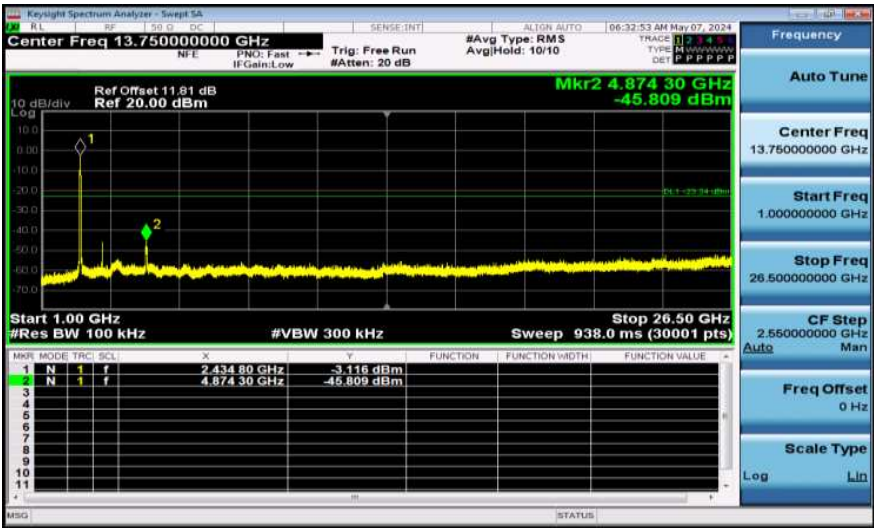
11N40SISO-Ant1-2422-30~1000-PASS



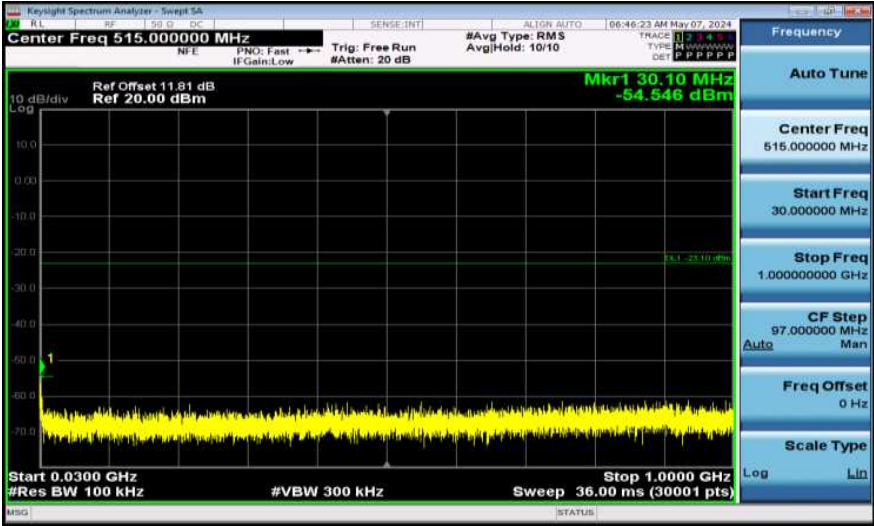
11N40SISO-Ant1-2422-1000~26500-PASS



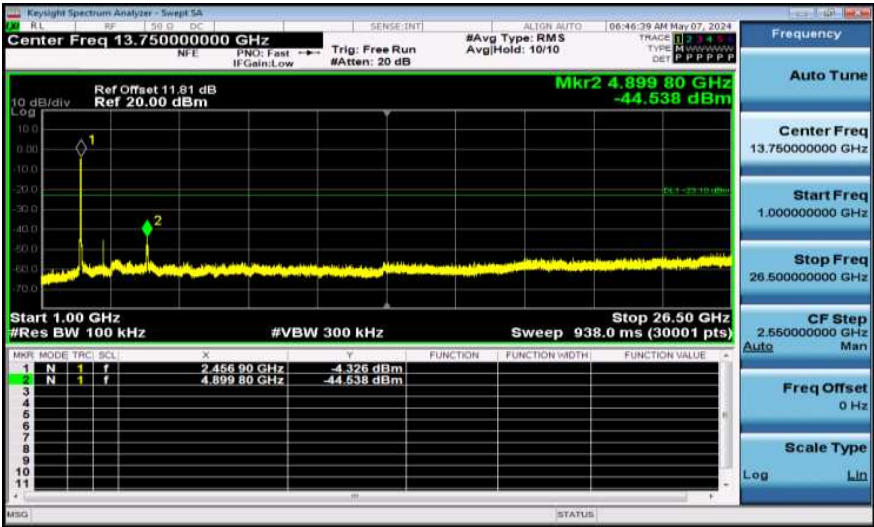
11N40SISO-Ant1-2437-30~1000-PASS



11N40SISO-Ant1-2437-1000~26500-PASS



11N40SISO-Ant1-2452-30~1000-PASS



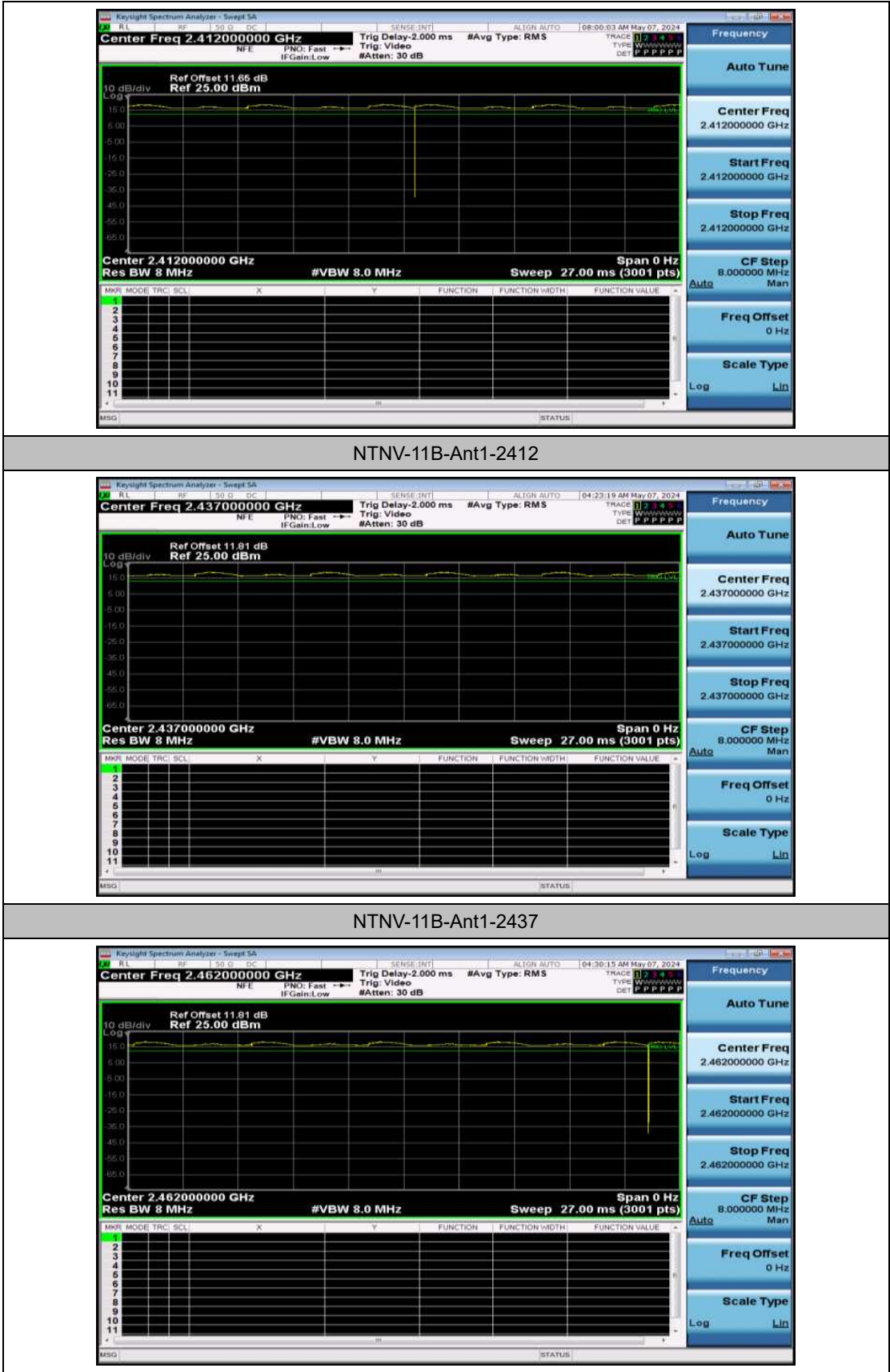
11N40SISO-Ant1-2452-1000~26500-PASS

Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	22.00	22.00	100.00	0.00
11B	Ant1	2437	27.00	27.00	100.00	0.00
11B	Ant1	2462	22.00	22.00	100.00	0.00
11G	Ant1	2412	5.48	5.50	99.64	0.02
11G	Ant1	2437	5.48	5.51	99.46	0.02
11G	Ant1	2462	5.48	5.51	99.46	0.02
11N20SISO	Ant1	2412	5.08	5.11	99.41	0.03
11N20SISO	Ant1	2437	5.08	5.10	99.61	0.02
11N20SISO	Ant1	2462	5.08	5.11	99.41	0.03
11N40SISO	Ant1	2422	2.47	2.50	98.80	0.05
11N40SISO	Ant1	2437	2.47	2.49	99.20	0.03
11N40SISO	Ant1	2452	2.47	2.49	99.20	0.03

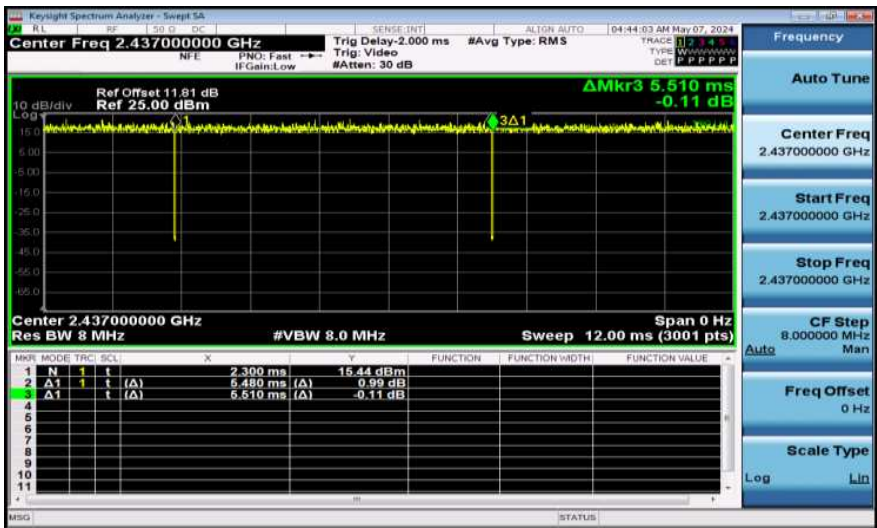
Test Graphs



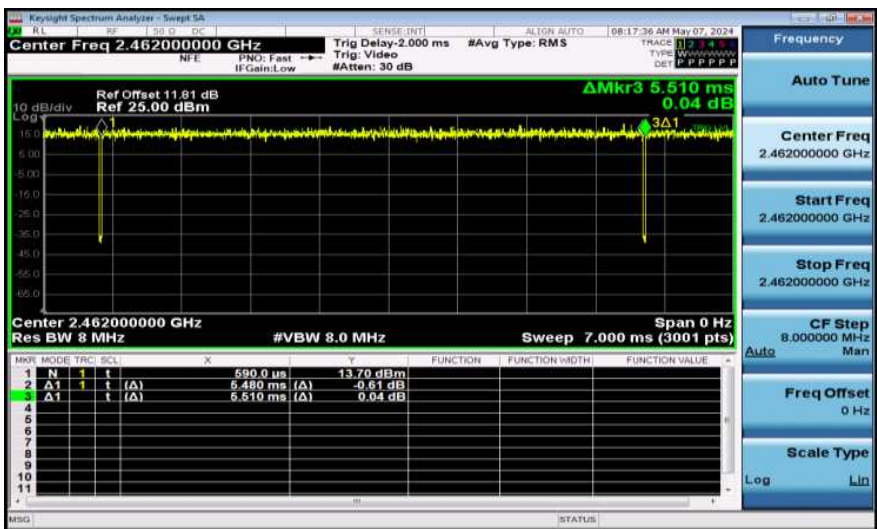
NTNV-11B-Ant1-2462



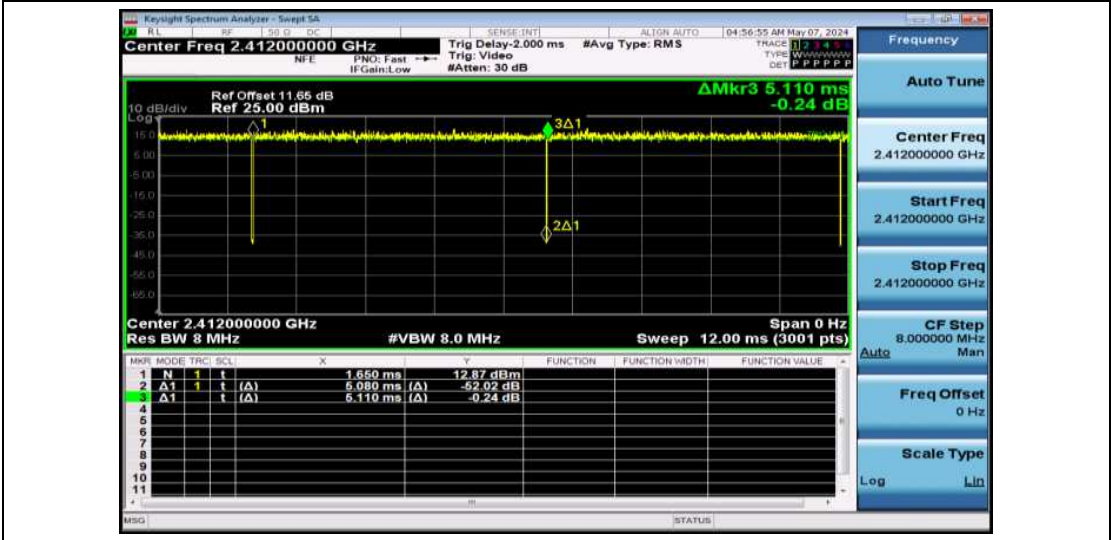
NTNV-11G-Ant1-2412



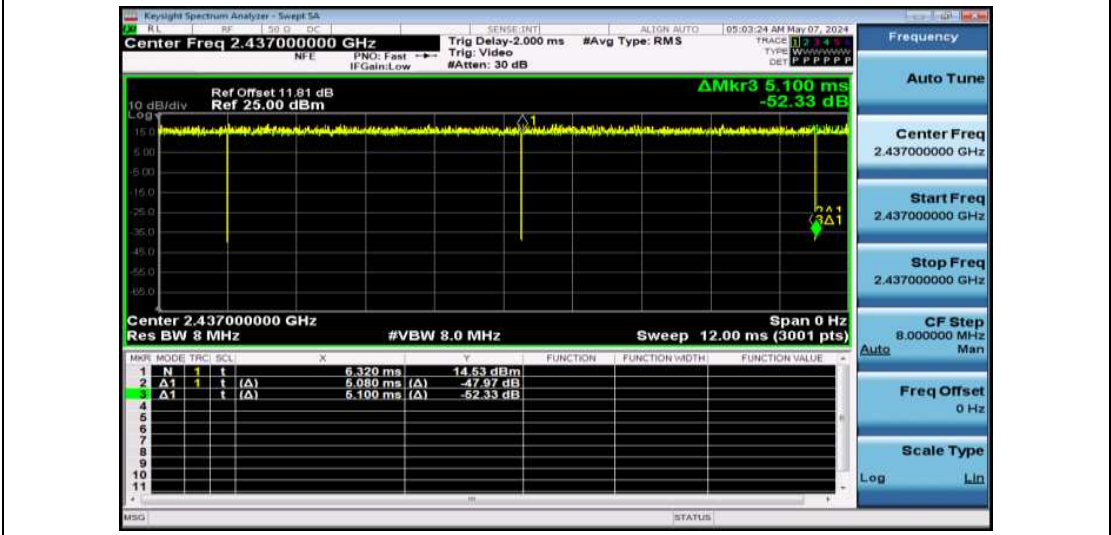
NTNV-11G-Ant1-2437



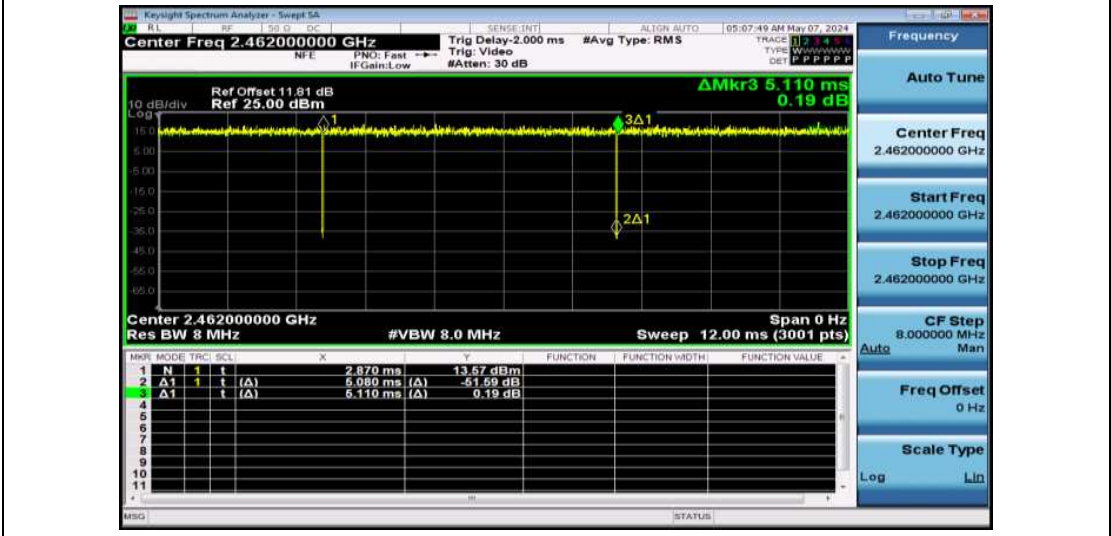
NTNV-11G-Ant1-2462



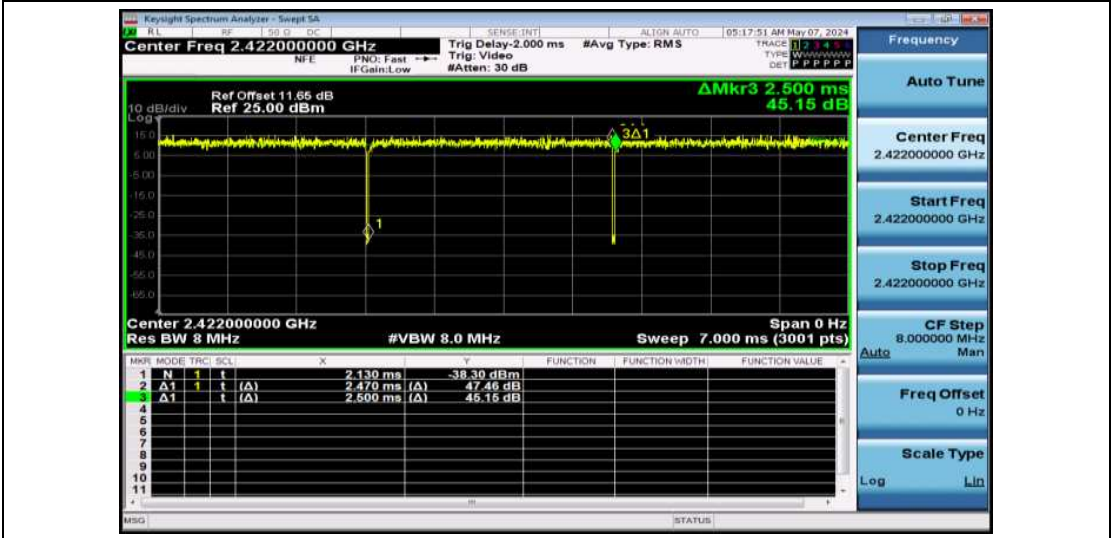
NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462



NTNV-11N40SISO-Ant1-2422



NTNV-11N40SISO-Ant1-2437



NTNV-11N40SISO-Ant1-2452