

Appendix A of 2.4G WIFI Results

DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	0.5	PASS
11B	Ant1	2437	8.560	2432.960	2441.520	0.5	PASS
11B	Ant1	2462	8.080	2457.480	2465.560	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
11G	Ant1	2437	16.360	2428.800	2445.160	0.5	PASS
11G	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
11N20SISO	Ant1	2437	17.560	2428.200	2445.760	0.5	PASS
11N20SISO	Ant1	2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	35.520	2404.400	2439.920	0.5	PASS
11N40SISO	Ant1	2437	34.800	2420.120	2454.920	0.5	PASS
11N40SISO	Ant1	2452	35.280	2434.480	2469.760	0.5	PASS

Test Graphs



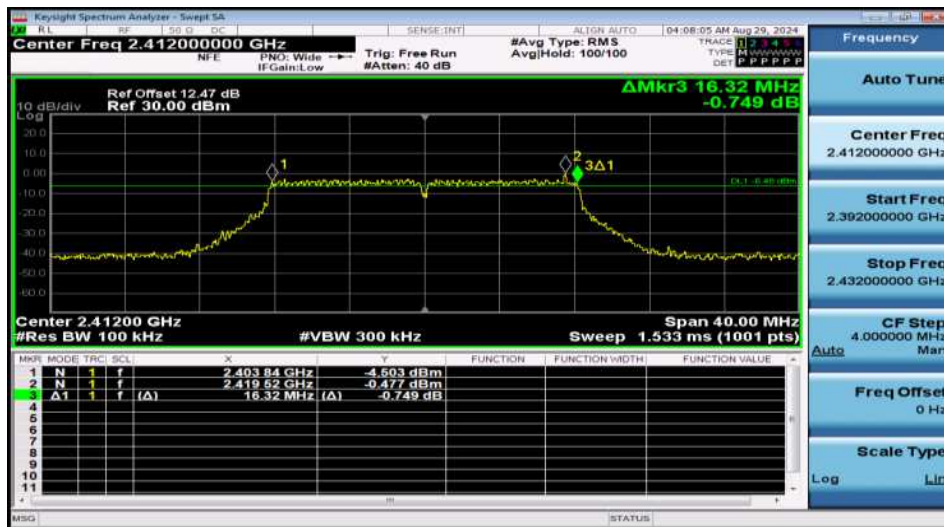
11B-Ant1-2412-PASS



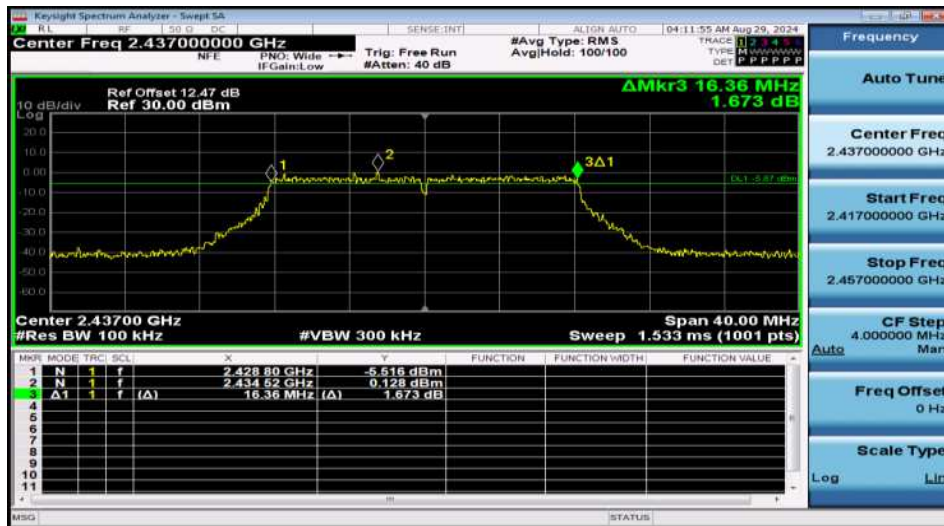
11B-Ant1-2437-PASS



11B-Ant1-2462-PASS



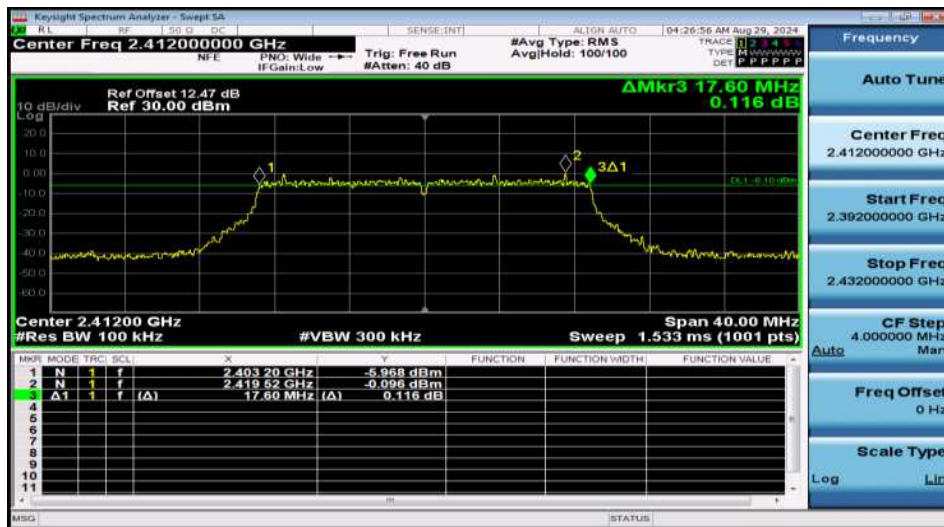
11G-Ant1-2412-PASS



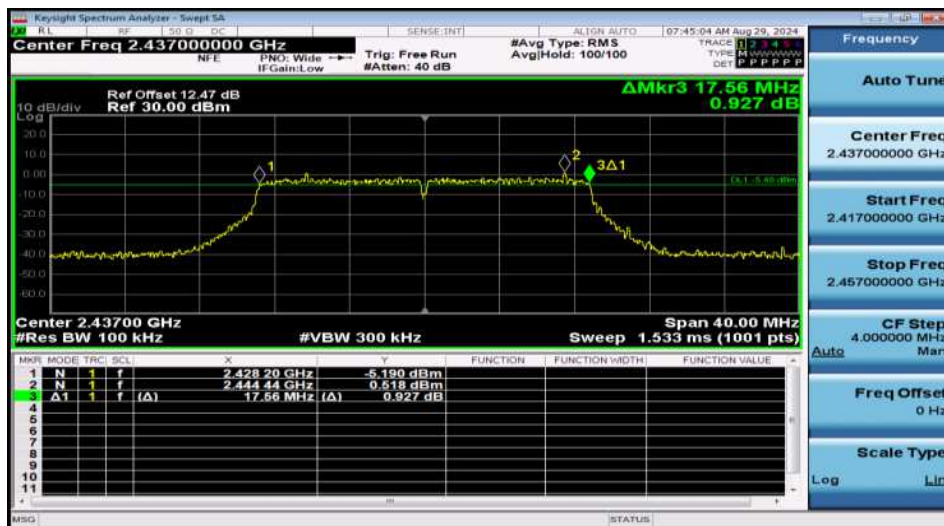
11G-Ant1-2437-PASS



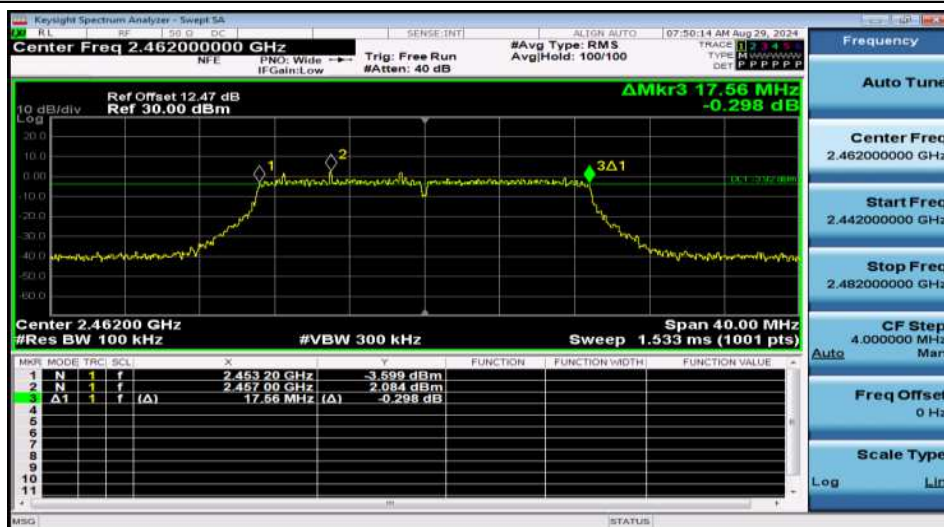
11G-Ant1-2462-PASS



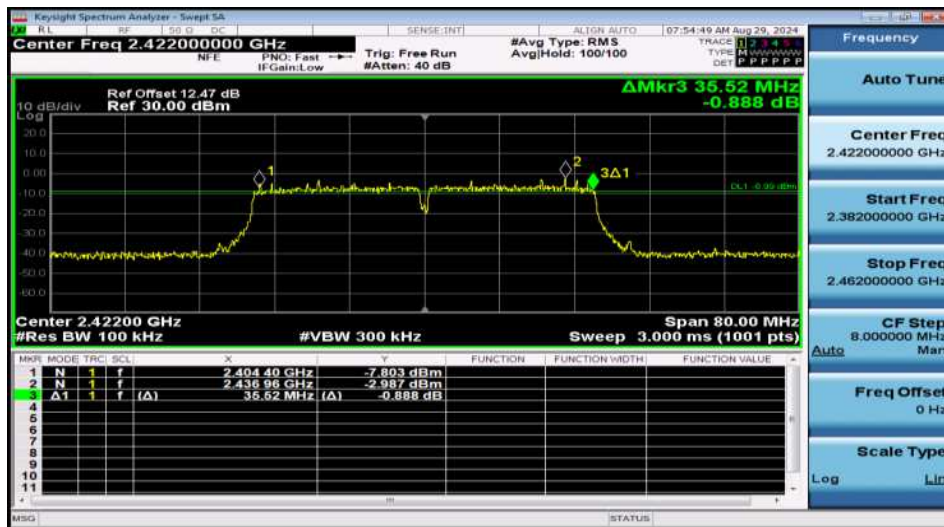
11N20SISO-Ant1-2412-PASS



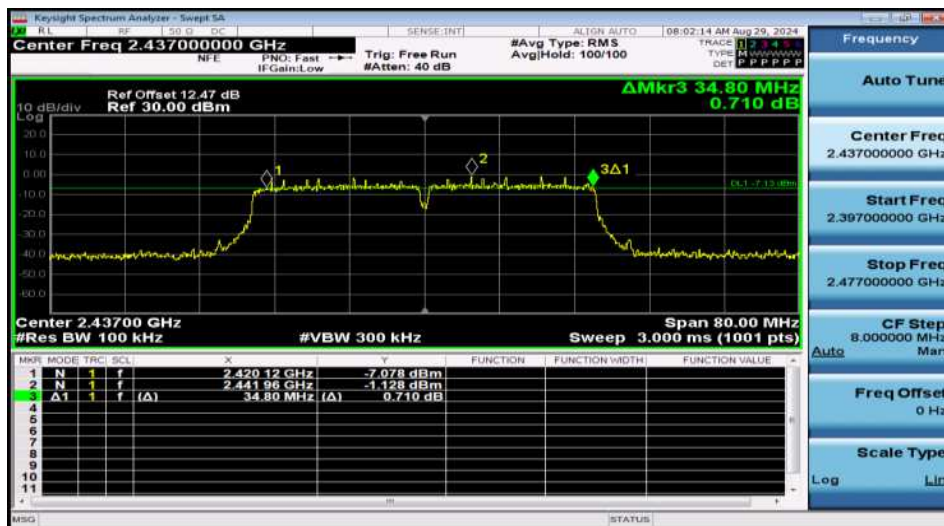
11N20SISO-Ant1-2437-PASS



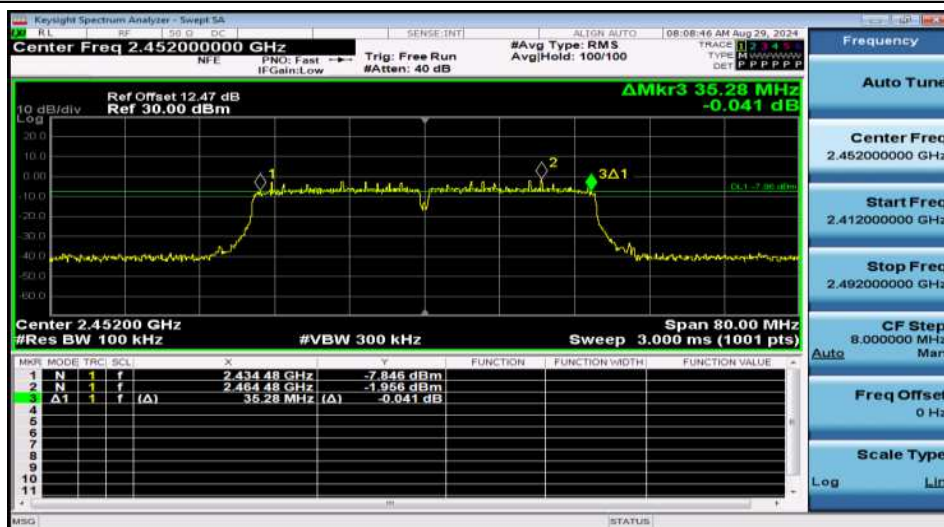
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



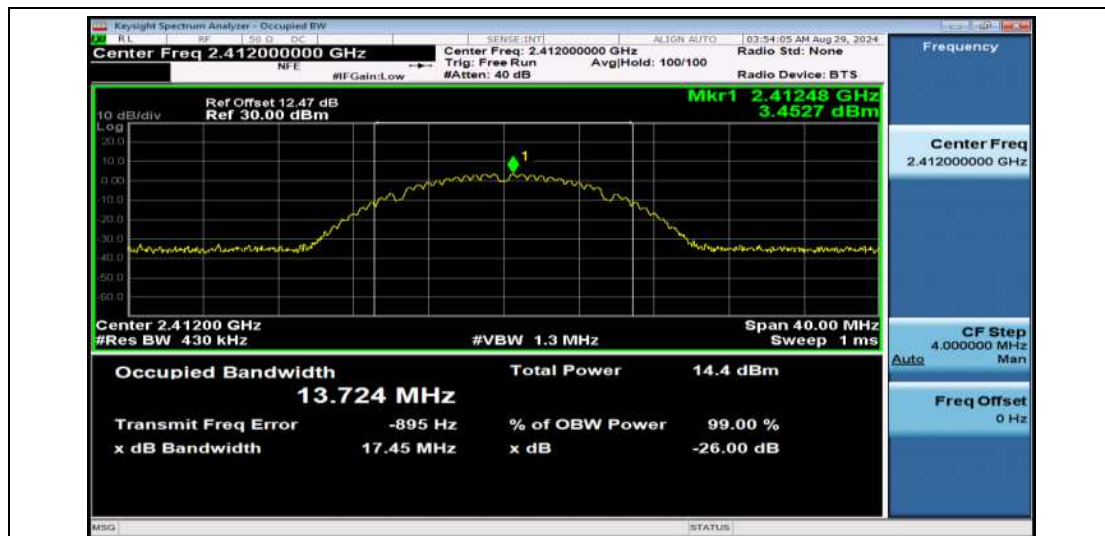
11N40SISO-Ant1-2452-PASS

Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.724	2405.1371	2418.8611	---	---
11B	Ant1	2437	13.749	2430.1403	2443.8893	---	---
11B	Ant1	2462	13.678	2455.0861	2468.7641	---	---
11G	Ant1	2412	17.070	2403.4614	2420.5314	---	---
11G	Ant1	2437	17.082	2428.4114	2445.4934	---	---
11G	Ant1	2462	17.101	2453.4035	2470.5045	---	---
11N20SISO	Ant1	2412	18.073	2402.9727	2421.0457	---	---
11N20SISO	Ant1	2437	18.051	2427.9692	2446.0202	---	---
11N20SISO	Ant1	2462	18.145	2452.9146	2471.0596	---	---
11N40SISO	Ant1	2422	36.399	2403.8340	2440.2330	---	---
11N40SISO	Ant1	2437	36.457	2418.8166	2455.2736	---	---
11N40SISO	Ant1	2452	36.283	2433.8831	2470.1661	---	---

Test Graphs



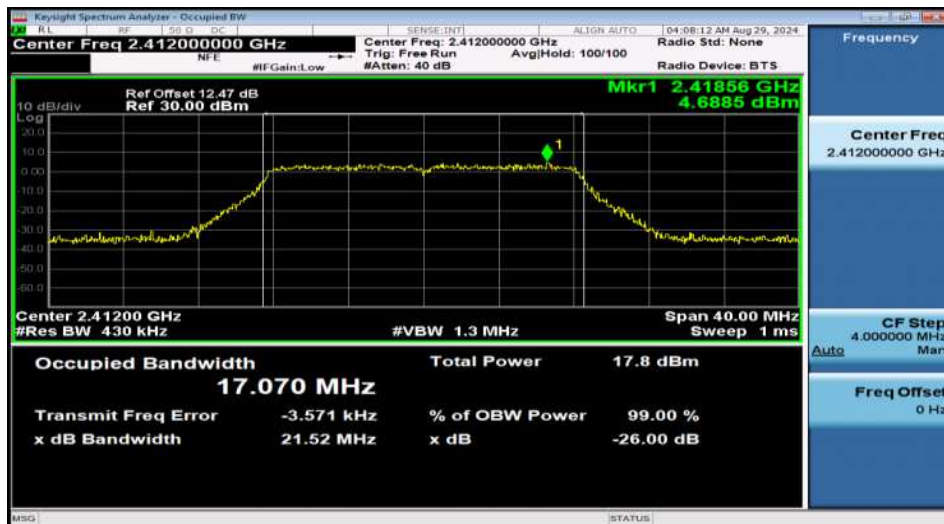
11B-Ant1-2412



11B-Ant1-2437



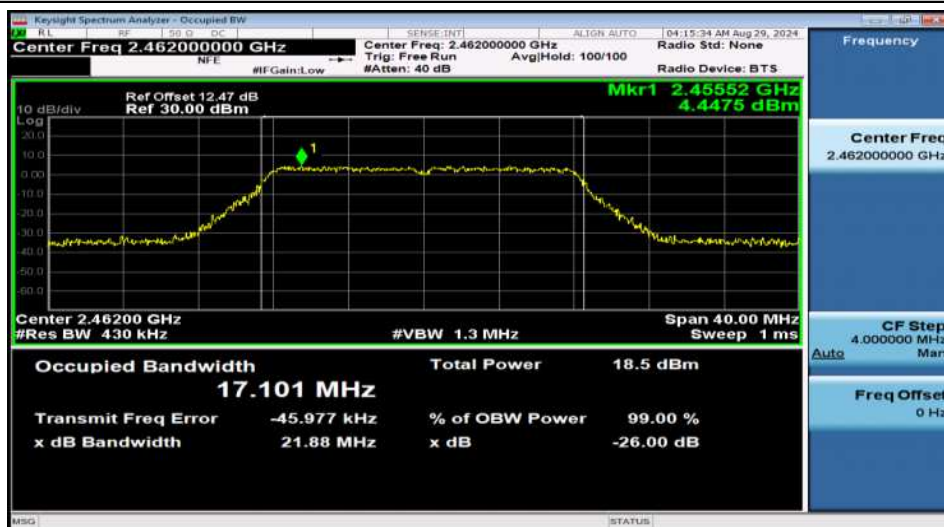
11B-Ant1-2462



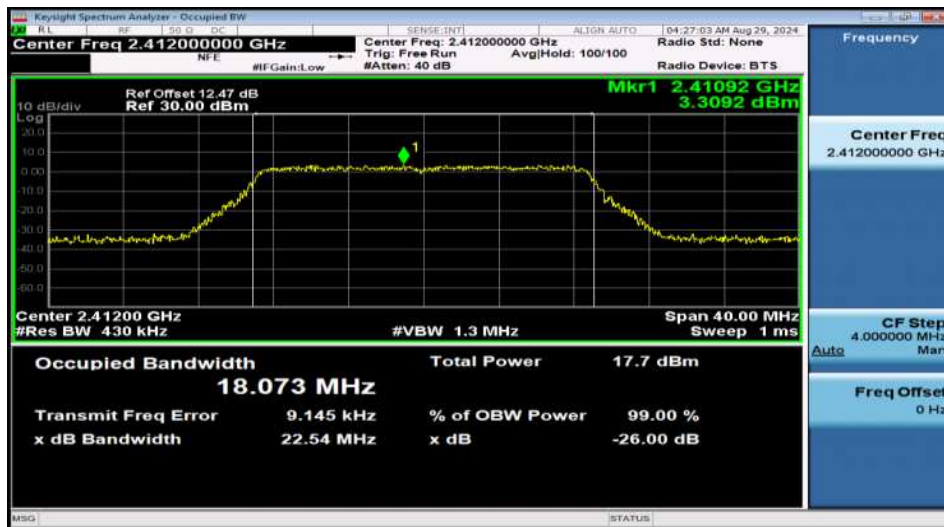
11G-Ant1-2412



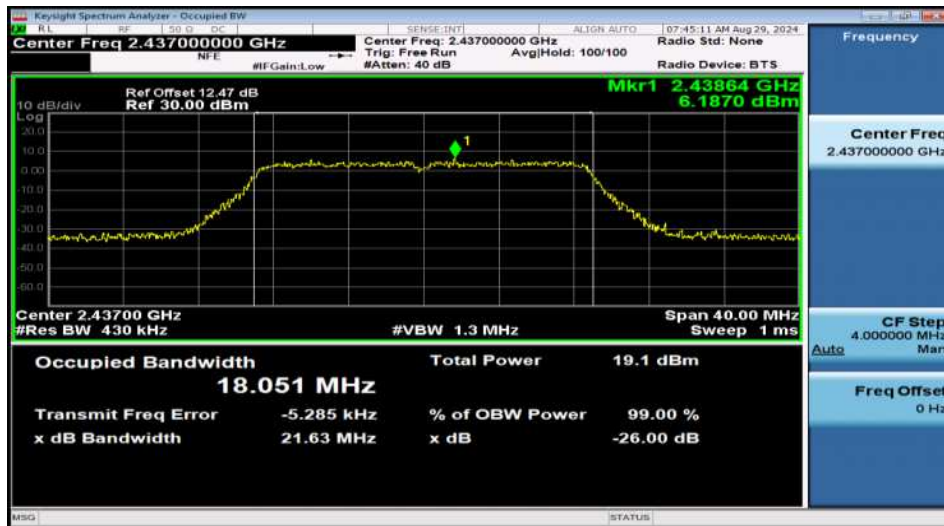
11G-Ant1-2437



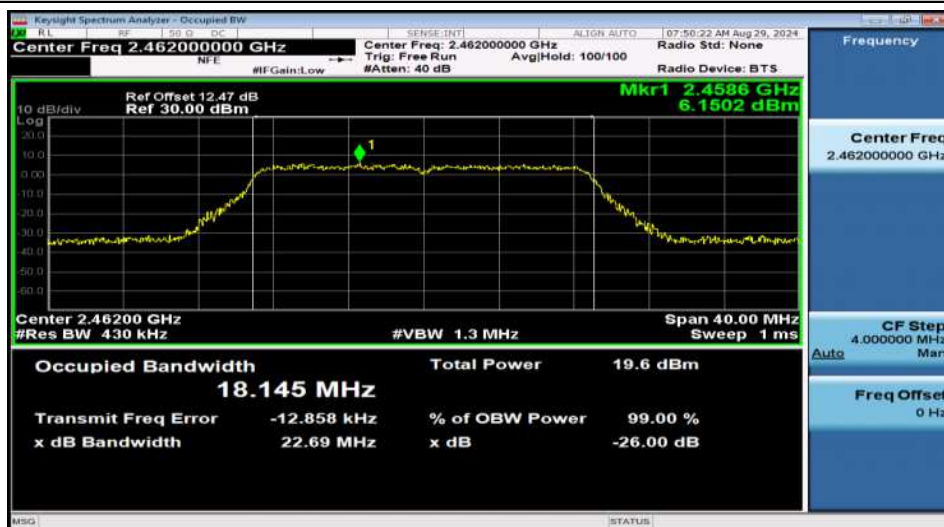
11G-Ant1-2462



11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



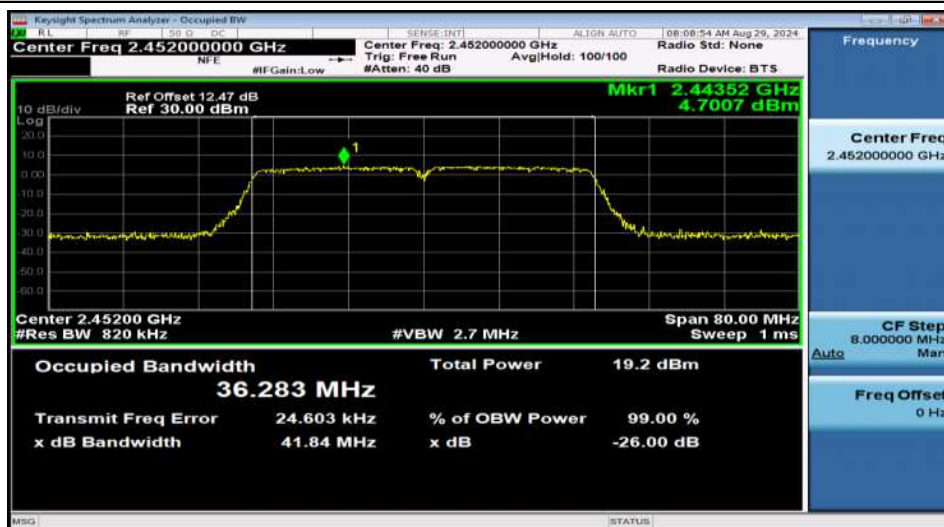
11N20SISO-Ant1-2462



11N40SISO-Ant1-2422



11N40SISO-Ant1-2437



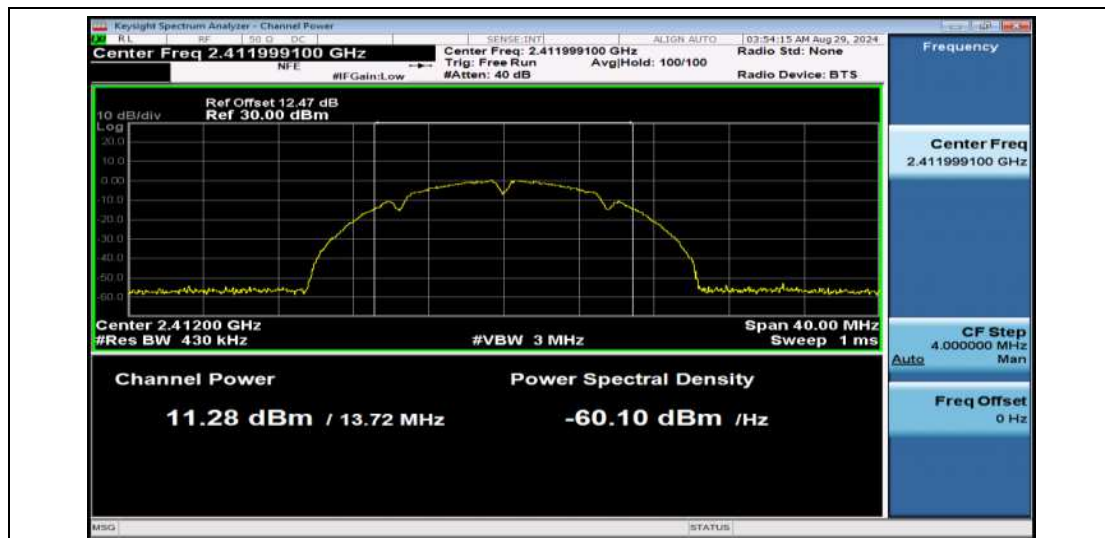
11N40SISO-Ant1-2452

Maximum conducted output power

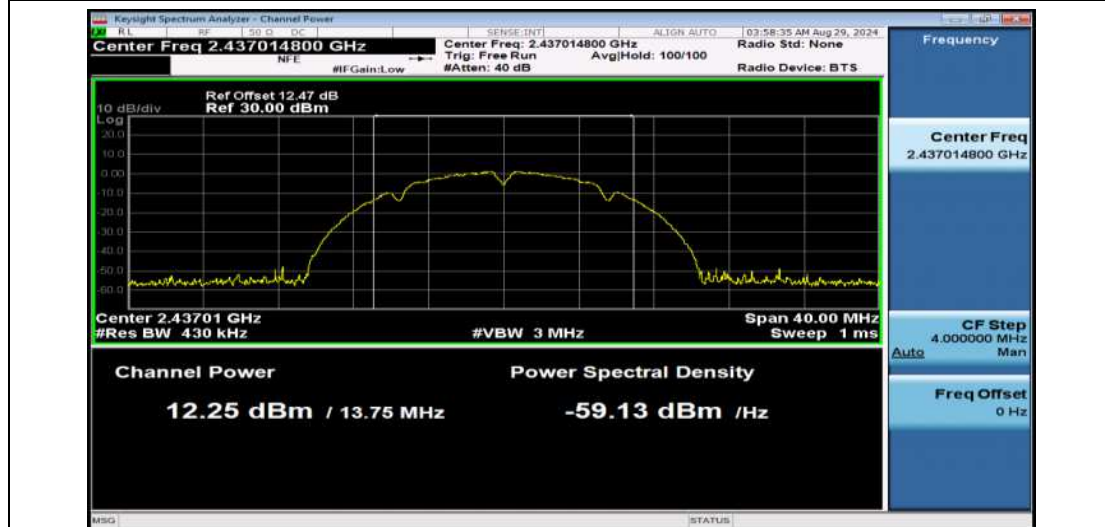
Test Result Average

Test Mode	Antenna	Frequency [MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	11.28	99.20	0.03	11.31	≤30.00	3.39	14.70	≤36.00	PASS
11B	Ant1	2437	12.25	98.96	0.05	12.30	≤30.00	3.39	15.69	≤36.00	PASS
11B	Ant1	2462	13.09	98.89	0.05	13.14	≤30.00	3.39	16.53	≤36.00	PASS
11G	Ant1	2412	11.50	89.57	0.48	11.98	≤30.00	3.39	15.37	≤36.00	PASS
11G	Ant1	2437	12.42	89.57	0.48	12.90	≤30.00	3.39	16.29	≤36.00	PASS
11G	Ant1	2462	12.27	91.96	0.36	12.63	≤30.00	3.39	16.02	≤36.00	PASS
11N20SISO	Ant1	2412	11.34	88.07	0.55	11.89	≤30.00	3.39	15.28	≤36.00	PASS
11N20SISO	Ant1	2437	12.74	88.89	0.51	13.25	≤30.00	3.39	16.64	≤36.00	PASS
11N20SISO	Ant1	2462	13.29	88.07	0.55	13.84	≤30.00	3.39	17.23	≤36.00	PASS
11N40SISO	Ant1	2422	10.62	64.38	1.91	12.53	≤30.00	3.39	15.92	≤36.00	PASS
11N40SISO	Ant1	2437	11.99	100.00	0.00	11.99	≤30.00	3.39	15.38	≤36.00	PASS
11N40SISO	Ant1	2452	11.75	79.66	0.99	12.74	≤30.00	3.39	16.13	≤36.00	PASS

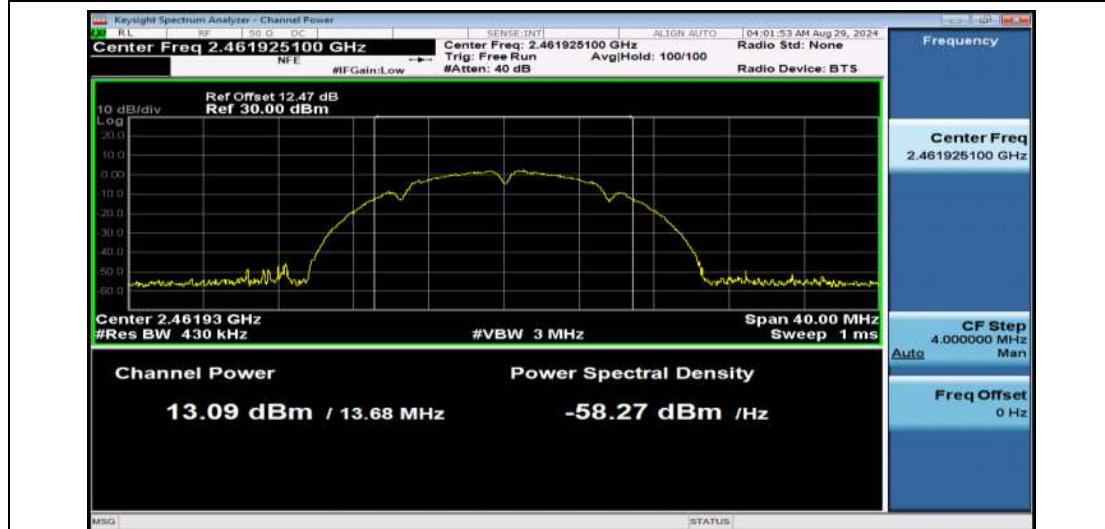
Test Graphs Average



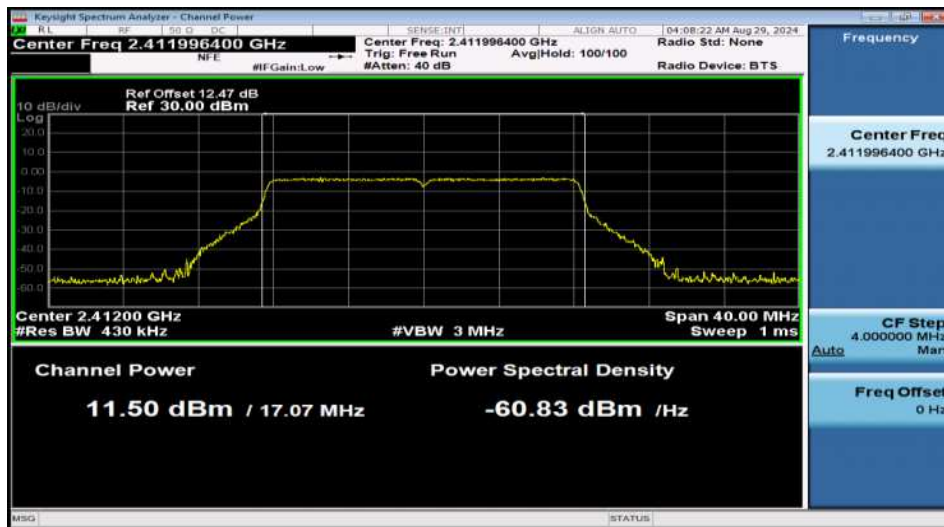
11B-Ant1-2412-PASS



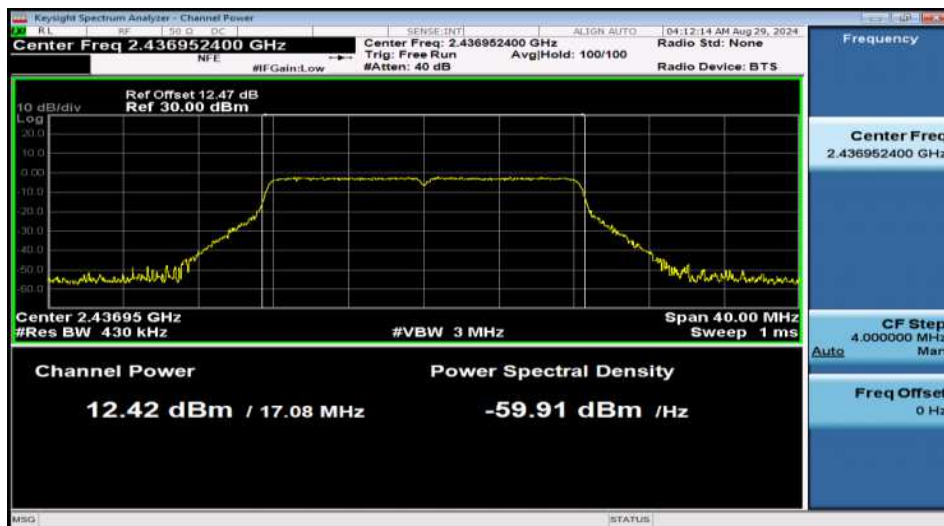
11B-Ant1-2437-PASS



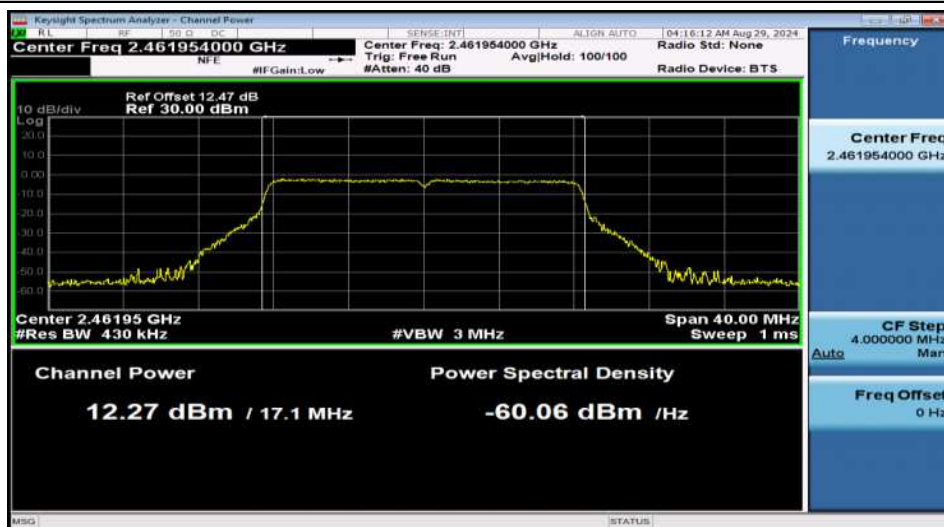
11B-Ant1-2462-PASS



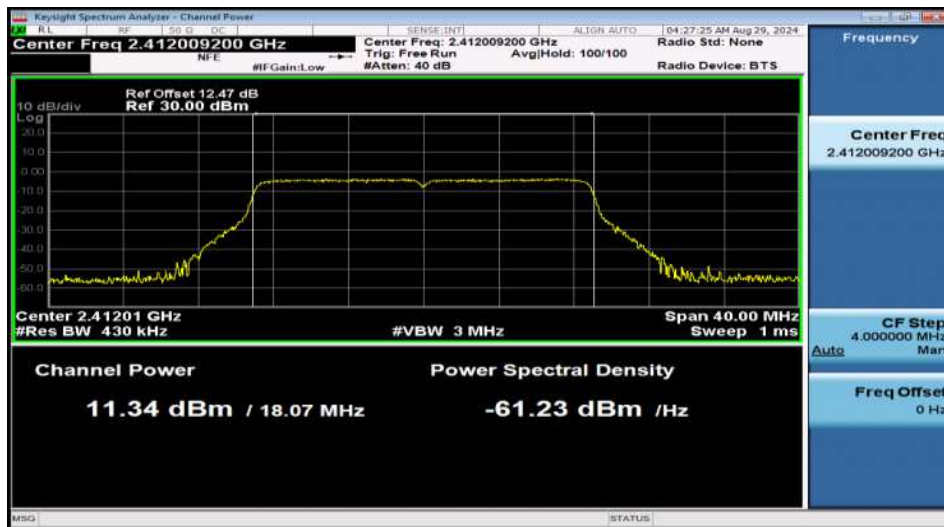
11G-Ant1-2412-PASS



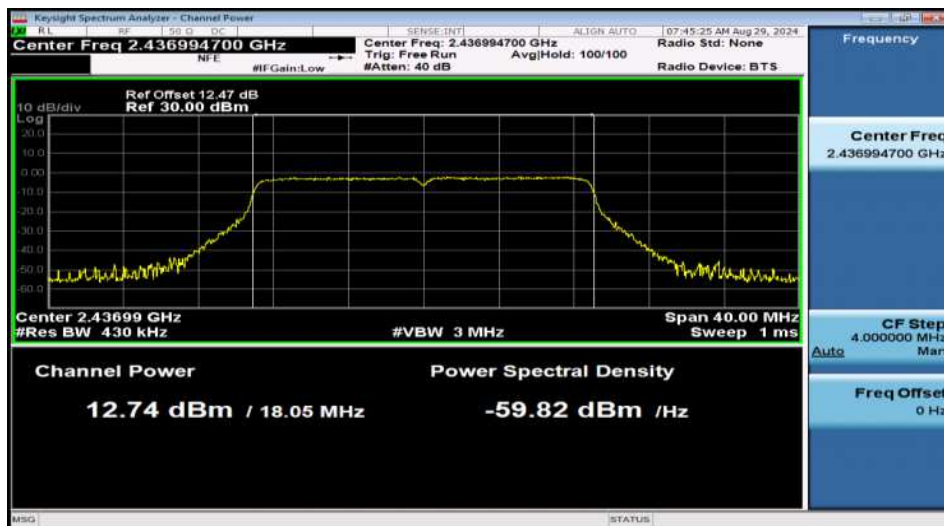
11G-Ant1-2437-PASS



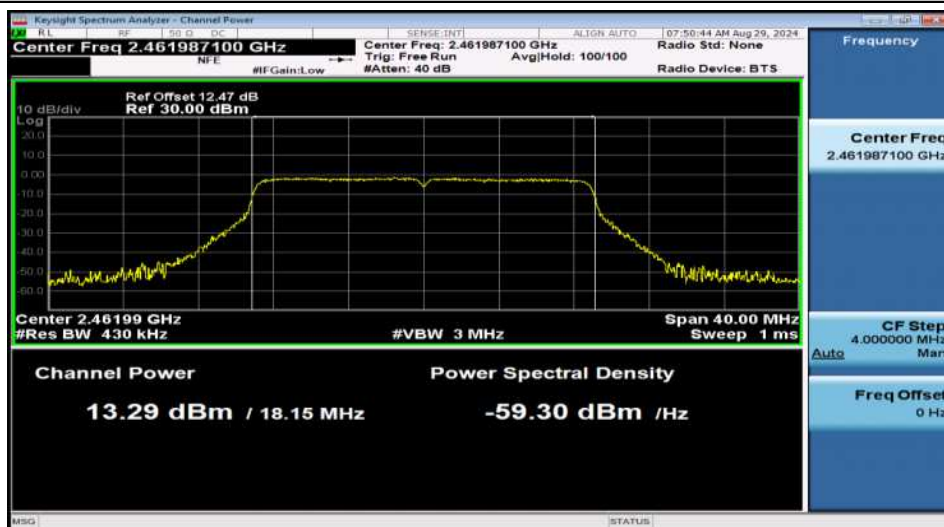
11G-Ant1-2462-PASS



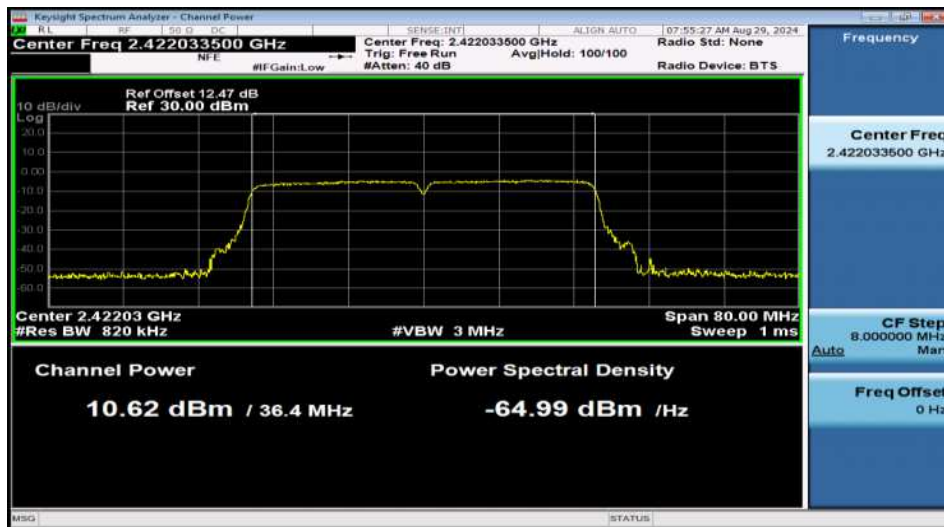
11N20SISO-Ant1-2412-PASS



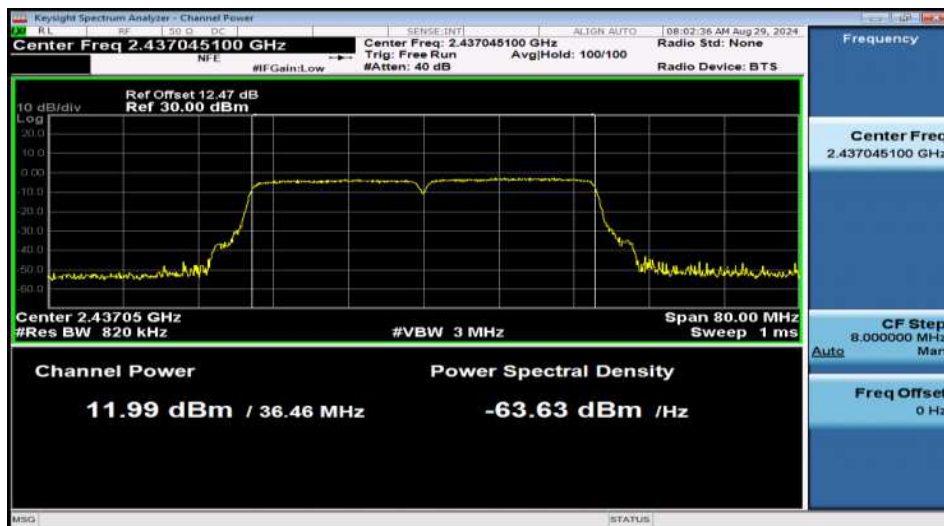
11N20SISO-Ant1-2437-PASS



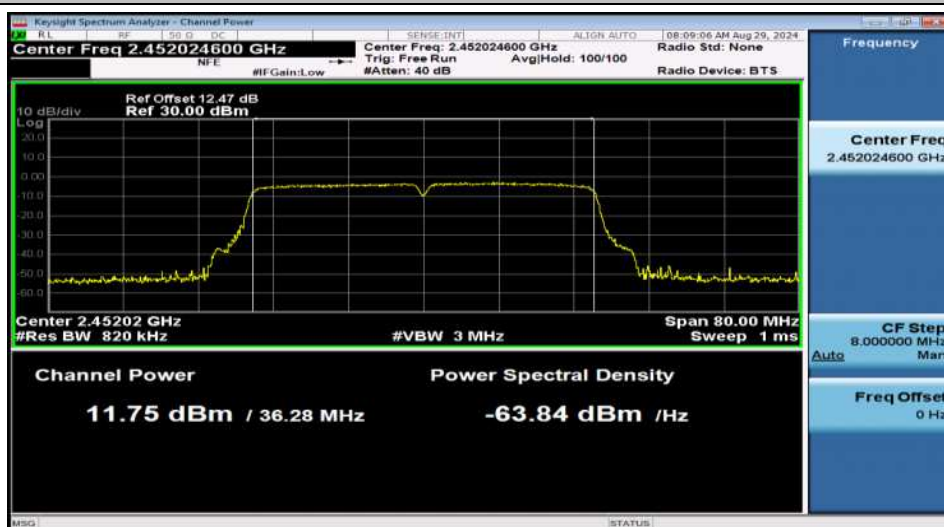
11N20SISO-Ant1-2462-PASS



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	-19.96	≤8.00	PASS
11B	Ant1	2437	-18.99	≤8.00	PASS
11B	Ant1	2462	-17.25	≤8.00	PASS
11G	Ant1	2412	-19.07	≤8.00	PASS
11G	Ant1	2437	-18.36	≤8.00	PASS
11G	Ant1	2462	-16.80	≤8.00	PASS
11N20SISO	Ant1	2412	-16.93	≤8.00	PASS
11N20SISO	Ant1	2437	-19.18	≤8.00	PASS
11N20SISO	Ant1	2462	-18.15	≤8.00	PASS
11N40SISO	Ant1	2422	-19.92	≤8.00	PASS
11N40SISO	Ant1	2437	-21.47	≤8.00	PASS
11N40SISO	Ant1	2452	-20.12	≤8.00	PASS

Test Graphs



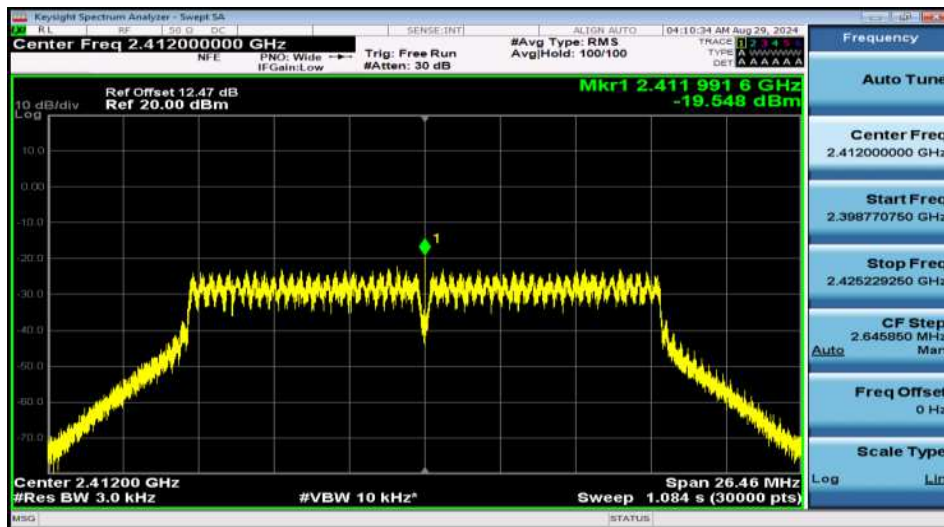
11B-Ant1-2412-PASS



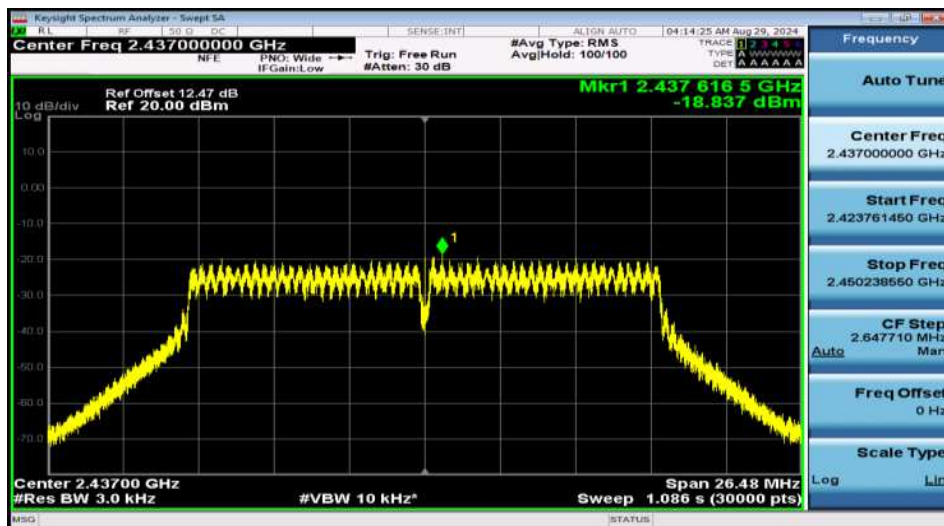
11B-Ant1-2437-PASS



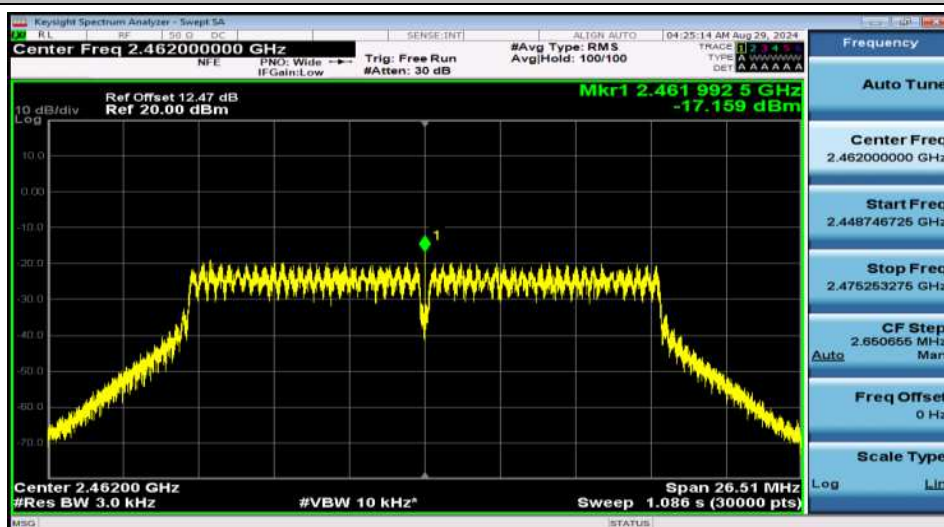
11B-Ant1-2462-PASS



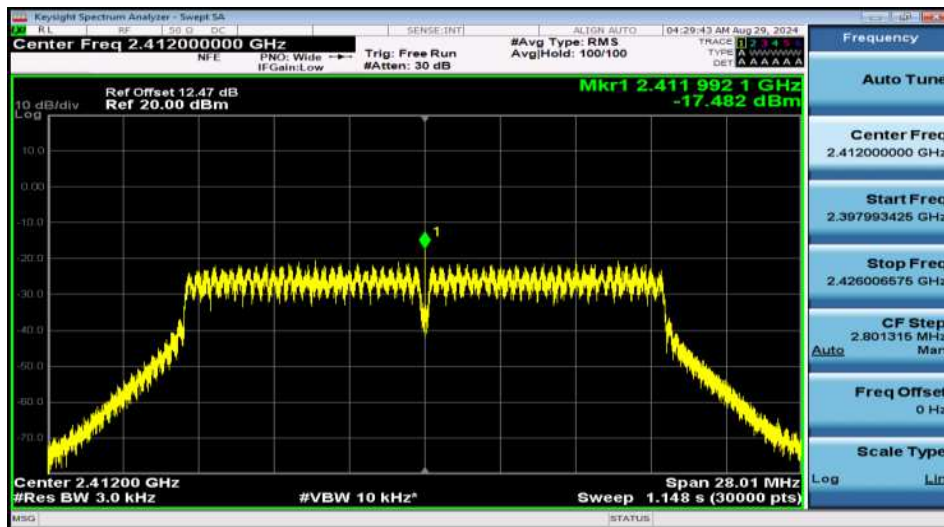
11G-Ant1-2412-PASS



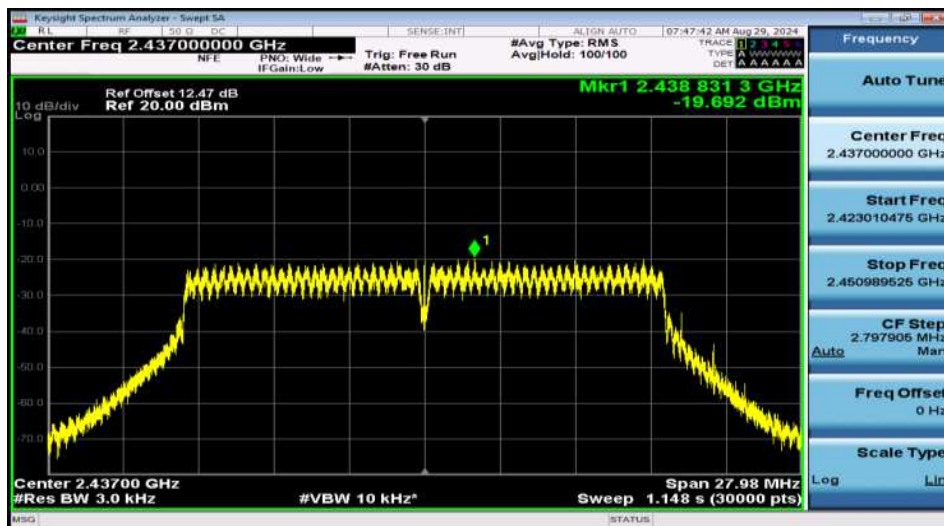
11G-Ant1-2437-PASS



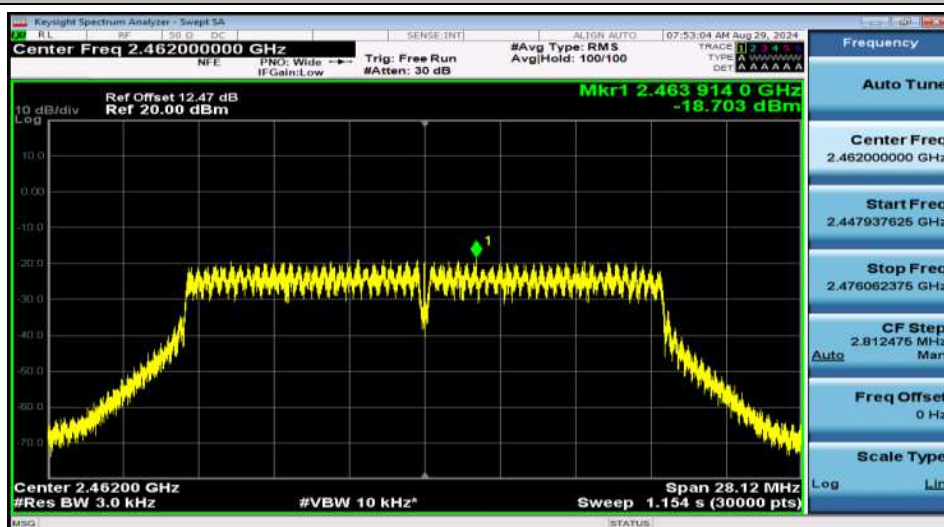
11G-Ant1-2462-PASS



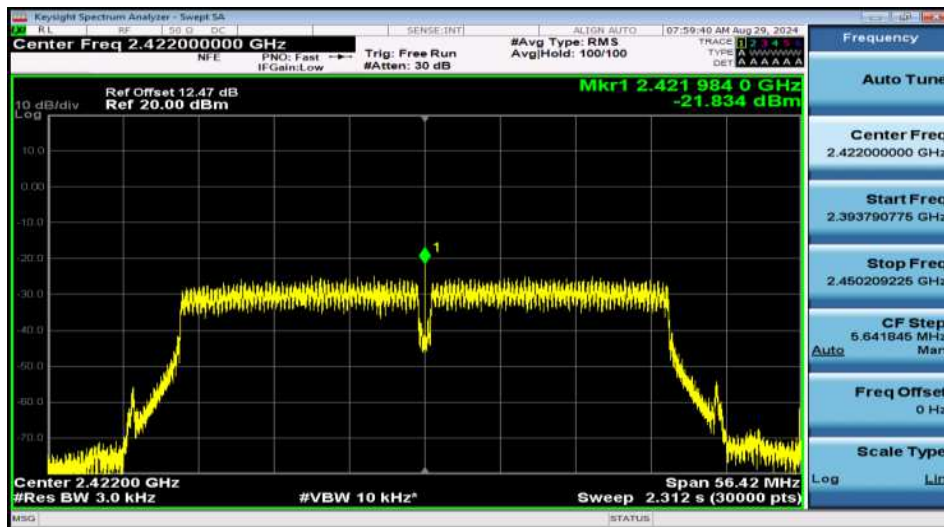
11N20SISO-Ant1-2412-PASS



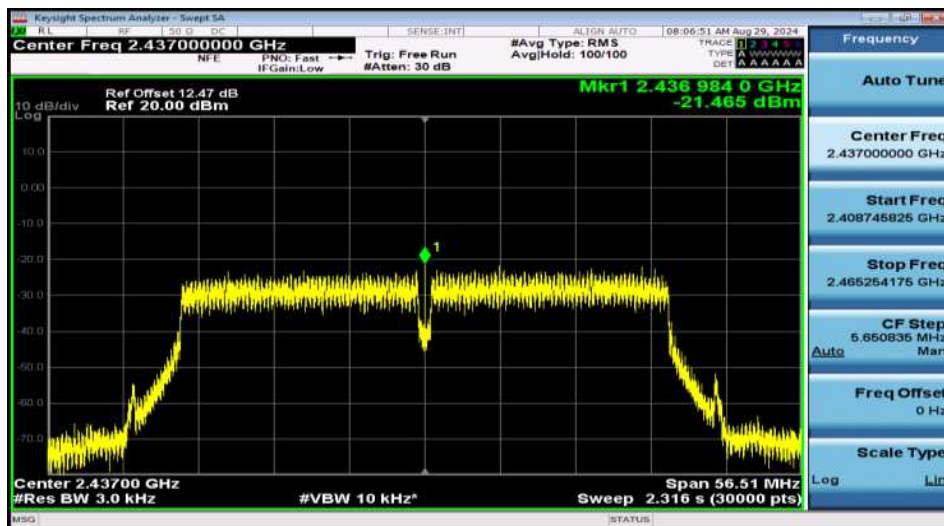
11N20SISO-Ant1-2437-PASS



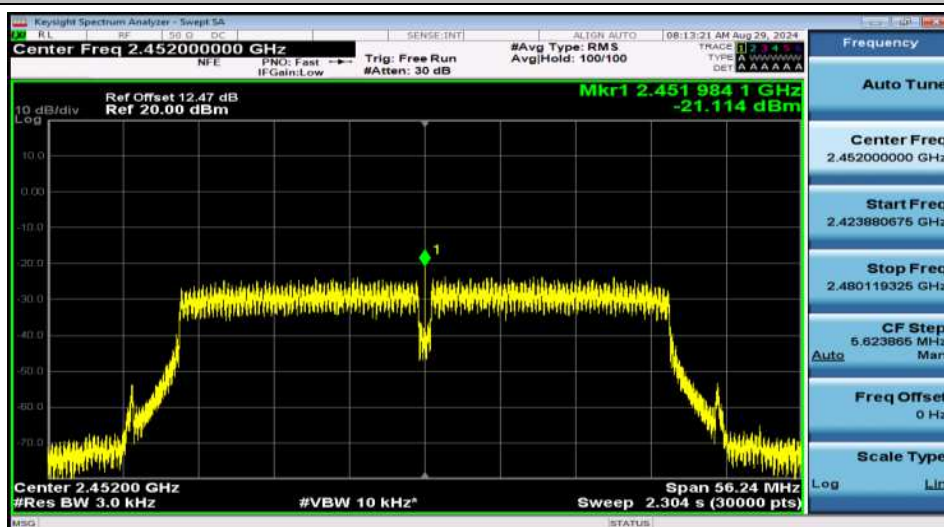
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



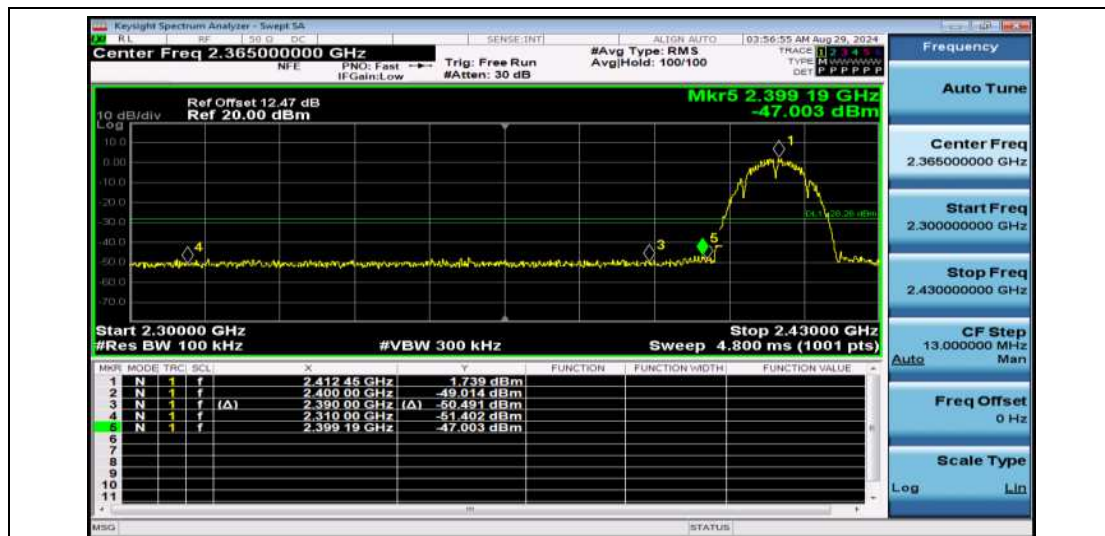
11N40SISO-Ant1-2452-PASS

Band edge measurements

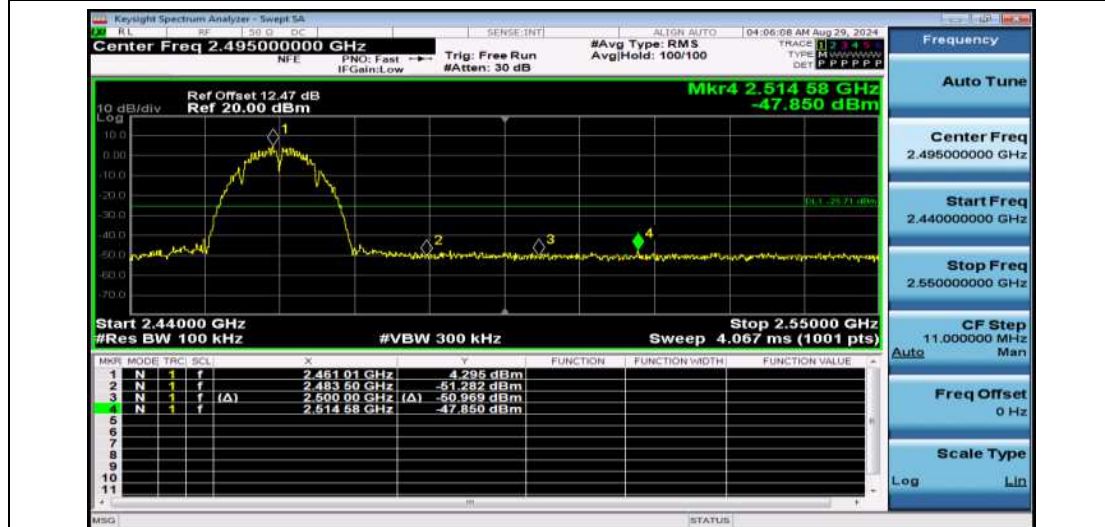
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.74	-47	≤-28.26	PASS
11B	Ant1	High	2462	4.30	-47.85	≤-25.71	PASS
11G	Ant1	Low	2412	0.28	-40.35	≤-29.72	PASS
11G	Ant1	High	2462	1.03	-45.94	≤-28.97	PASS
11N20SISO	Ant1	Low	2412	-0.82	-39.08	≤-30.82	PASS
11N20SISO	Ant1	High	2462	1.80	-46.67	≤-28.2	PASS
11N40SISO	Ant1	Low	2422	-3.01	-40.53	≤-33.01	PASS
11N40SISO	Ant1	High	2452	-1.70	-45.43	≤-31.7	PASS

Test Graphs



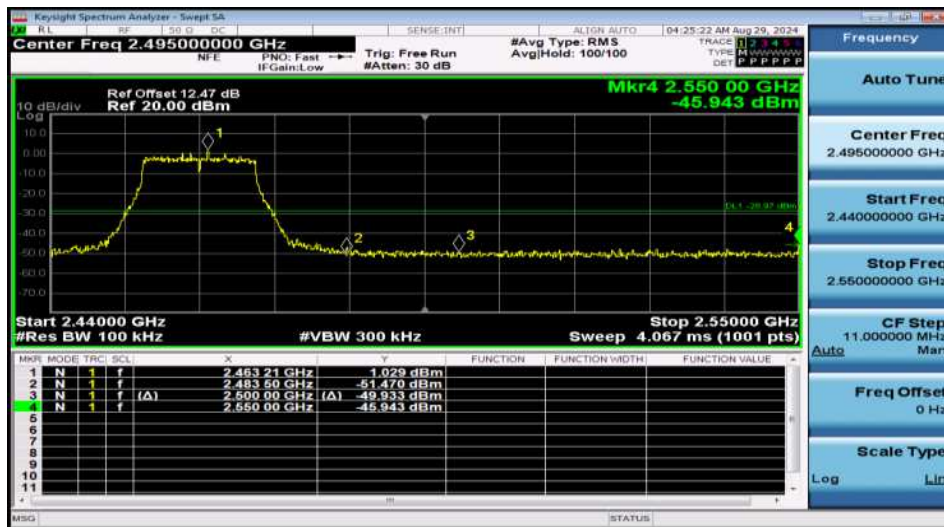
11B-Ant1-2412-PASS



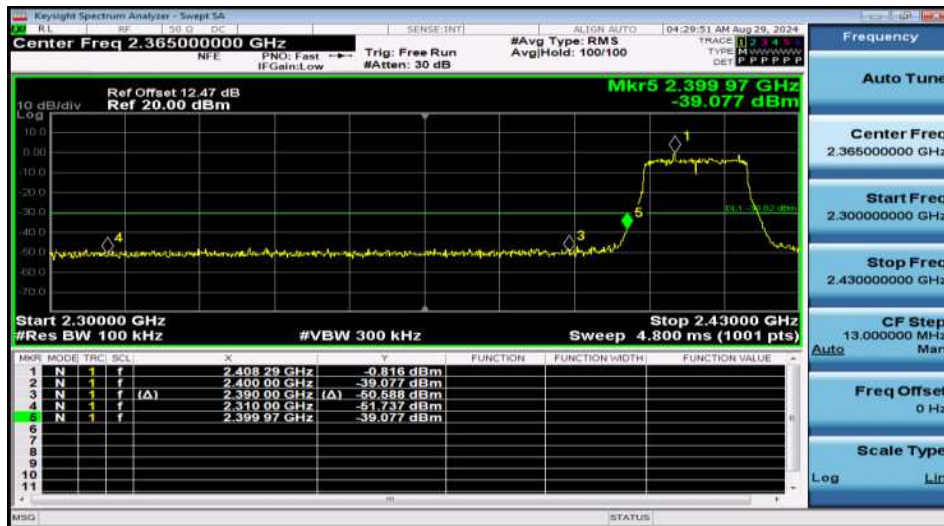
11B-Ant1-2462-PASS



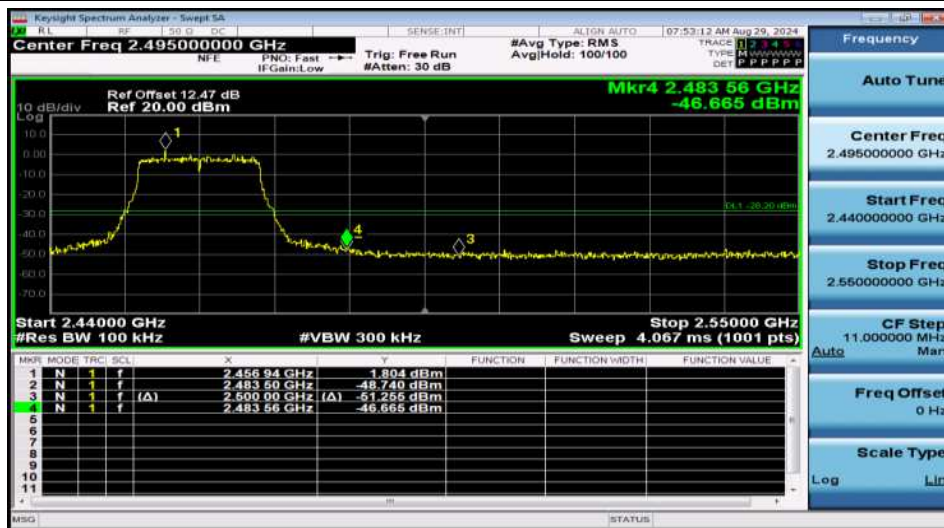
11G-Ant1-2412-PASS



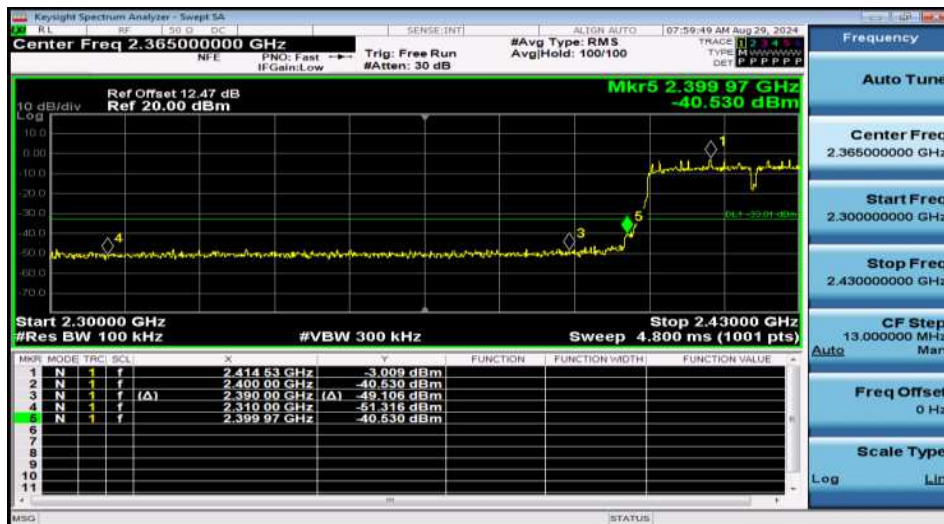
11G-Ant1-2462-PASS



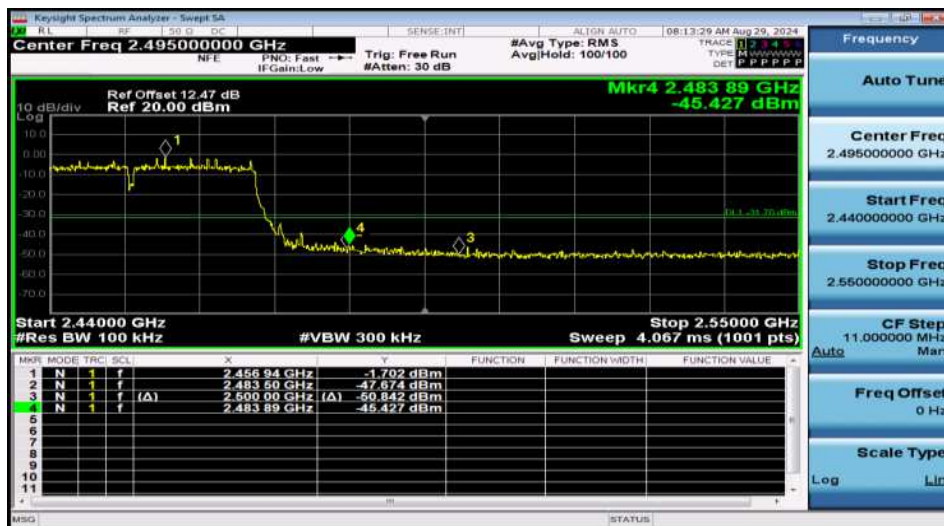
11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2452-PASS

Conducted Spurious Emission

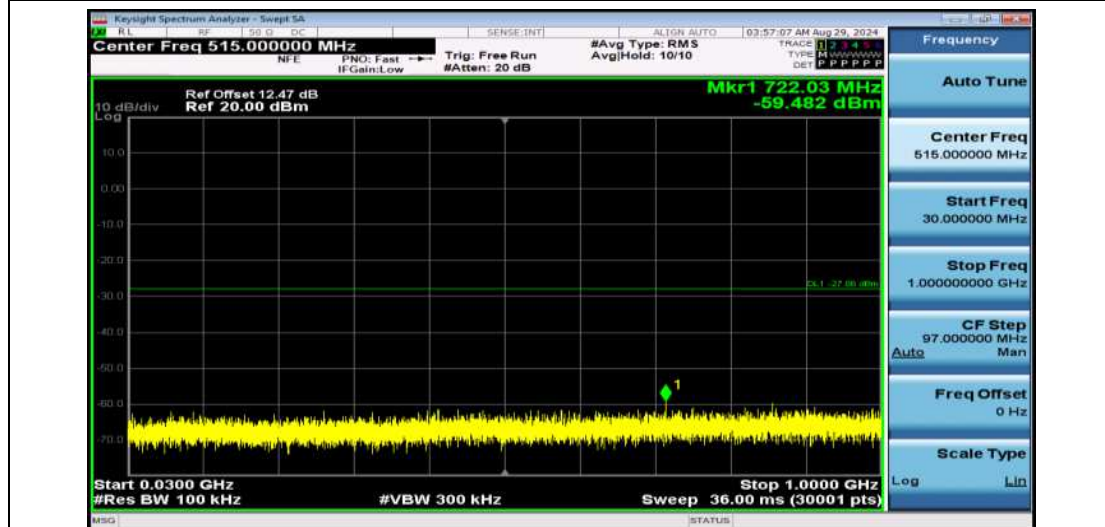
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	2.14	2.14	---	PASS
11B	Ant1	2412	30~1000	2.14	-59.48	≤-27.86	PASS
11B	Ant1	2412	1000~26500	2.14	-51.39	≤-27.86	PASS
11B	Ant1	2437	0~Reference	1.60	1.60	---	PASS
11B	Ant1	2437	30~1000	1.60	-59.97	≤-28.4	PASS
11B	Ant1	2437	1000~26500	1.60	-51.21	≤-28.4	PASS
11B	Ant1	2462	0~Reference	3.23	3.23	---	PASS
11B	Ant1	2462	30~1000	3.23	-59.96	≤-26.77	PASS
11B	Ant1	2462	1000~26500	3.23	-50.81	≤-26.77	PASS
11G	Ant1	2412	0~Reference	-3.18	-3.18	---	PASS
11G	Ant1	2412	30~1000	-3.18	-59.4	≤-33.18	PASS
11G	Ant1	2412	1000~26500	-3.18	-51.65	≤-33.18	PASS
11G	Ant1	2437	0~Reference	-2.42	-2.42	---	PASS
11G	Ant1	2437	30~1000	-2.42	-60.05	≤-32.42	PASS
11G	Ant1	2437	1000~26500	-2.42	-50.75	≤-32.42	PASS
11G	Ant1	2462	0~Reference	-2.10	-2.10	---	PASS
11G	Ant1	2462	30~1000	-2.10	-60.64	≤-32.1	PASS
11G	Ant1	2462	1000~26500	-2.10	-50.64	≤-32.1	PASS
11N20SISO	Ant1	2412	0~Reference	-3.55	-3.55	---	PASS
11N20SISO	Ant1	2412	30~1000	-3.55	-60.17	≤-33.55	PASS
11N20SISO	Ant1	2412	1000~26500	-3.55	-51.62	≤-33.55	PASS
11N20SISO	Ant1	2437	0~Reference	-1.11	-1.11	---	PASS
11N20SISO	Ant1	2437	30~1000	-1.11	-59.87	≤-31.11	PASS
11N20SISO	Ant1	2437	1000~26500	-1.11	-51.41	≤-31.11	PASS
11N20SISO	Ant1	2462	0~Reference	-1.50	-1.50	---	PASS
11N20SISO	Ant1	2462	30~1000	-1.50	-59.3	≤-31.5	PASS
11N20SISO	Ant1	2462	1000~26500	-1.50	-51.79	≤-31.5	PASS
11N40SISO	Ant1	2422	0~Reference	-3.13	-3.13	---	PASS
11N40SISO	Ant1	2422	30~1000	-3.13	-60.32	≤-33.13	PASS
11N40SISO	Ant1	2422	1000~26500	-3.13	-51.8	≤-33.13	PASS
11N40SISO	Ant1	2437	0~Reference	-4.88	-4.88	---	PASS
11N40SISO	Ant1	2437	30~1000	-4.88	-59.77	≤-34.88	PASS
11N40SISO	Ant1	2437	1000~26500	-4.88	-51.6	≤-34.88	PASS
11N40SISO	Ant1	2452	0~Reference	-1.98	-1.98	---	PASS
11N40SISO	Ant1	2452	30~1000	-1.98	-60.41	≤-31.98	PASS
11N40SISO	Ant1	2452	1000~26500	-1.98	-51.9	≤-31.98	PASS

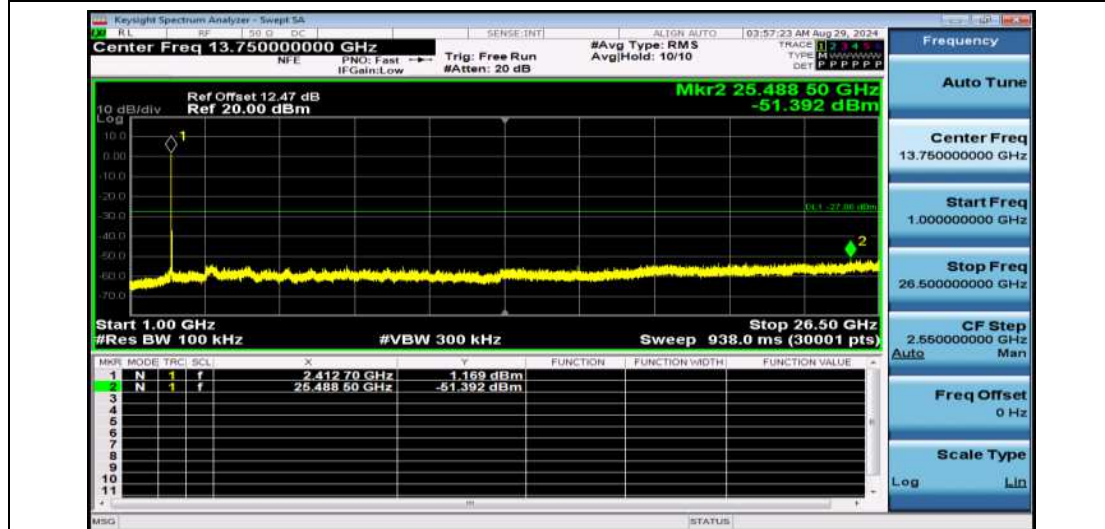
Test Graphs



11B-Ant1-2412-0~Reference-PASS



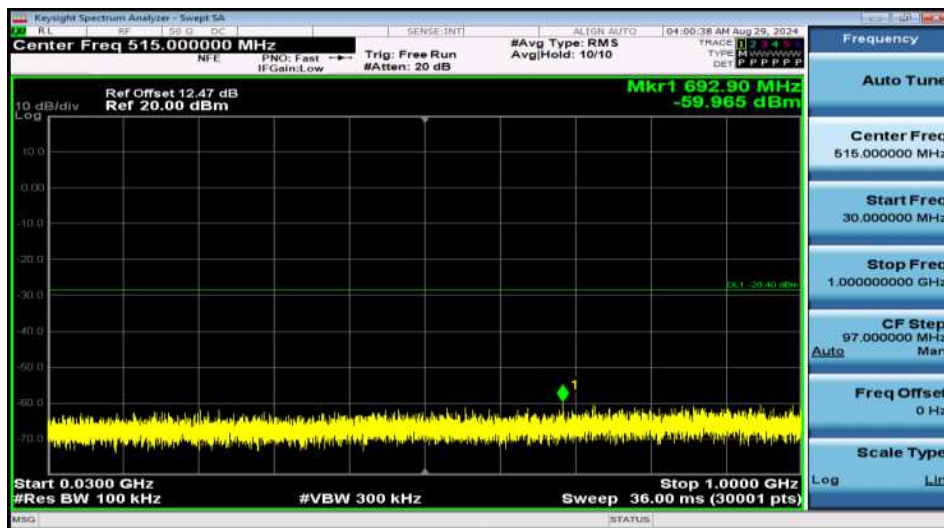
11B-Ant1-2412-30~1000-PASS



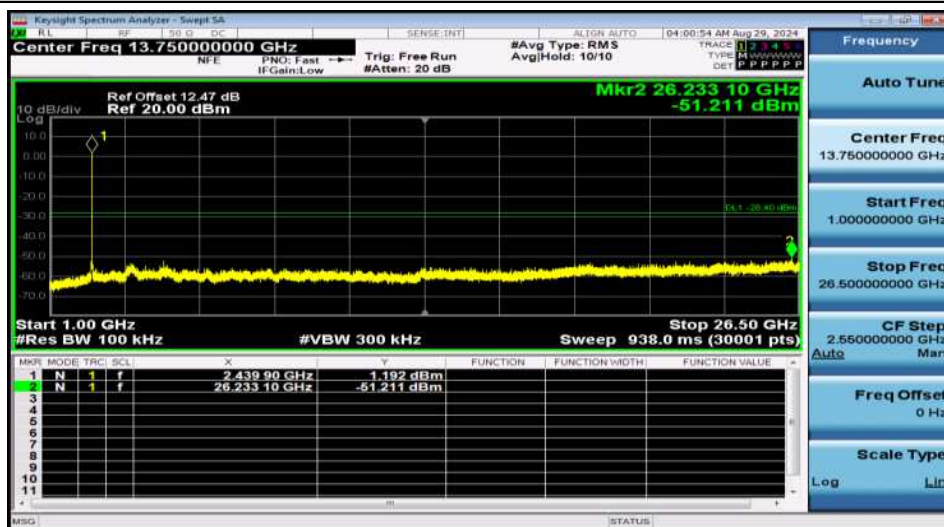
11B-Ant1-2412-1000~26500-PASS



11B-Ant1-2437-0~Reference-PASS



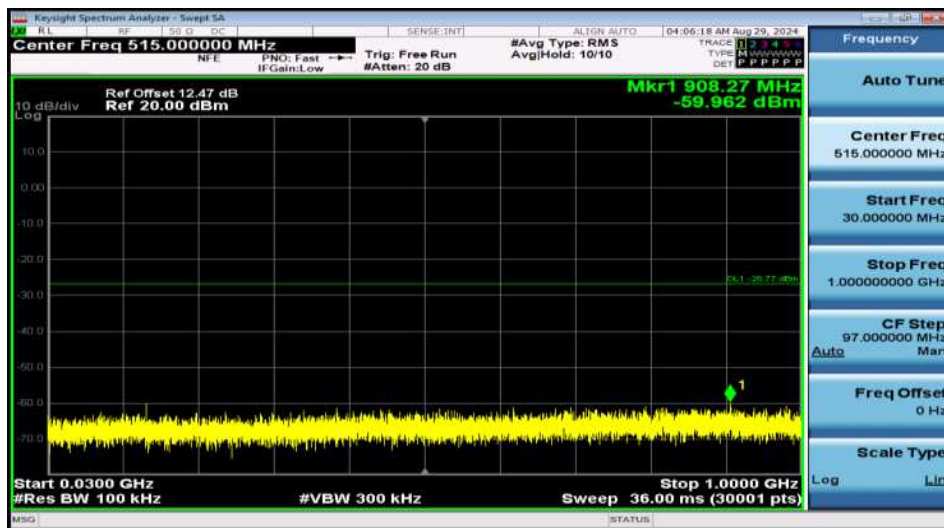
11B-Ant1-2437-30~1000-PASS



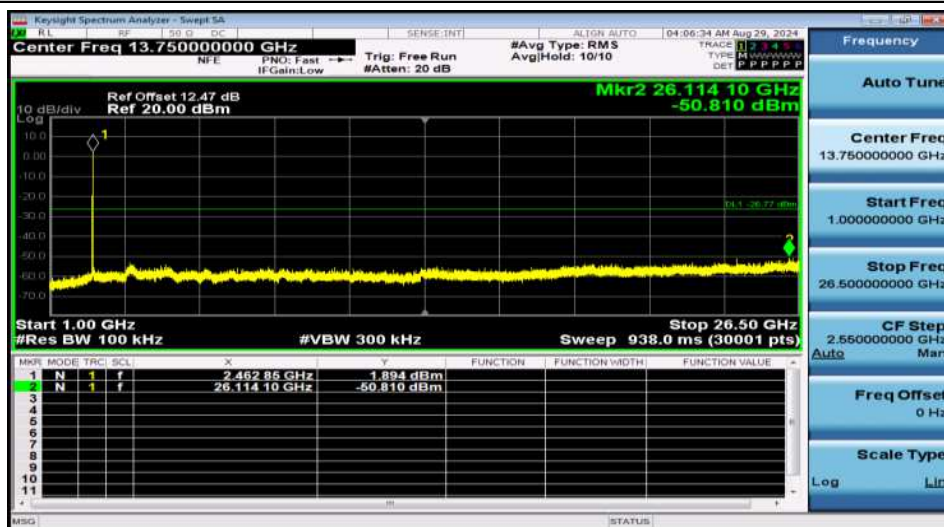
11B-Ant1-2437-1000~26500-PASS



11B-Ant1-2462-0~Reference-PASS



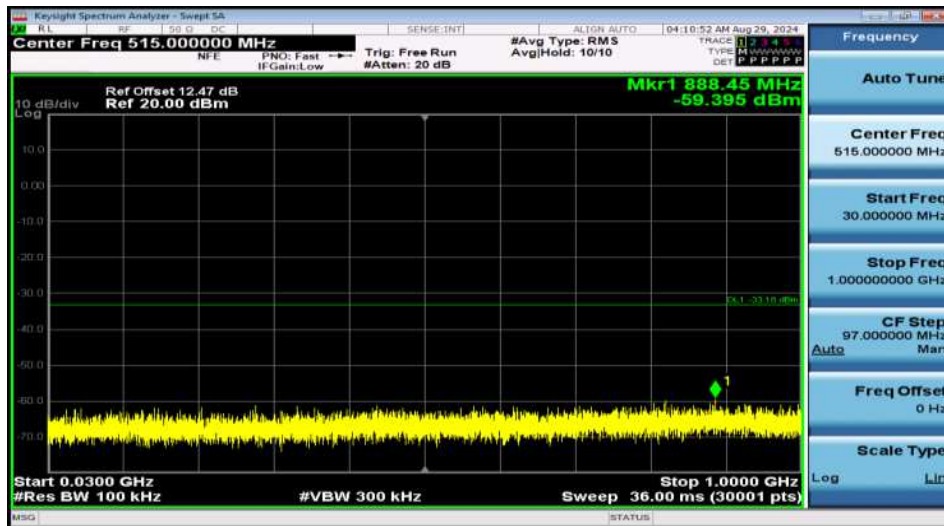
11B-Ant1-2462-30~1000-PASS



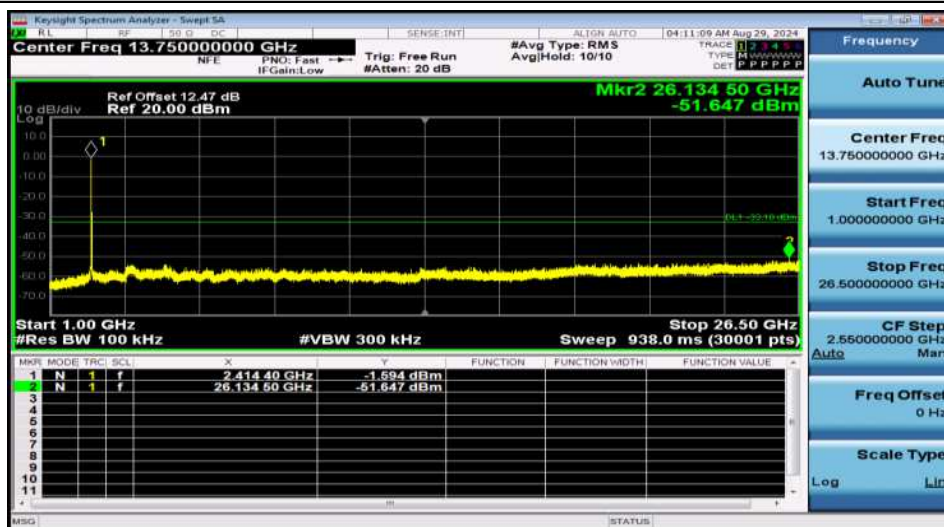
11B-Ant1-2462-1000~26500-PASS



11G-Ant1-2412-0~Reference-PASS



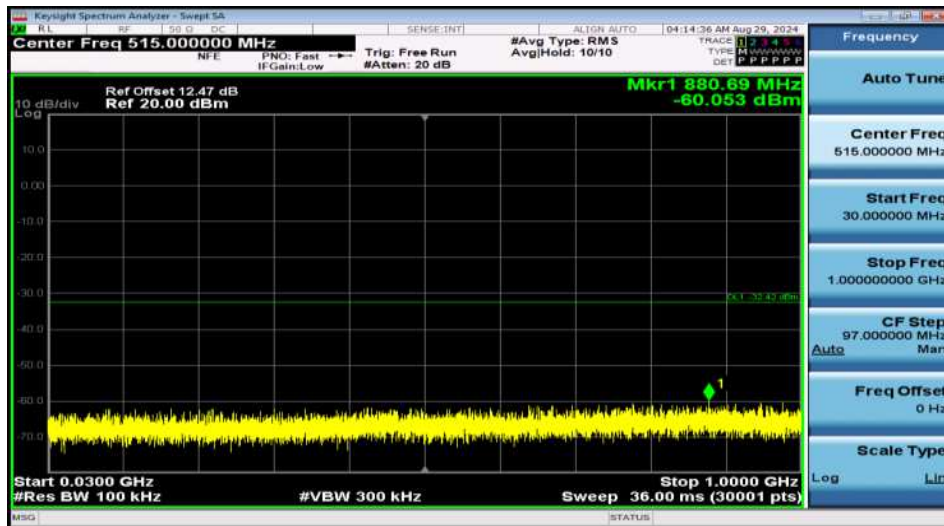
11G-Ant1-2412-30~1000-PASS



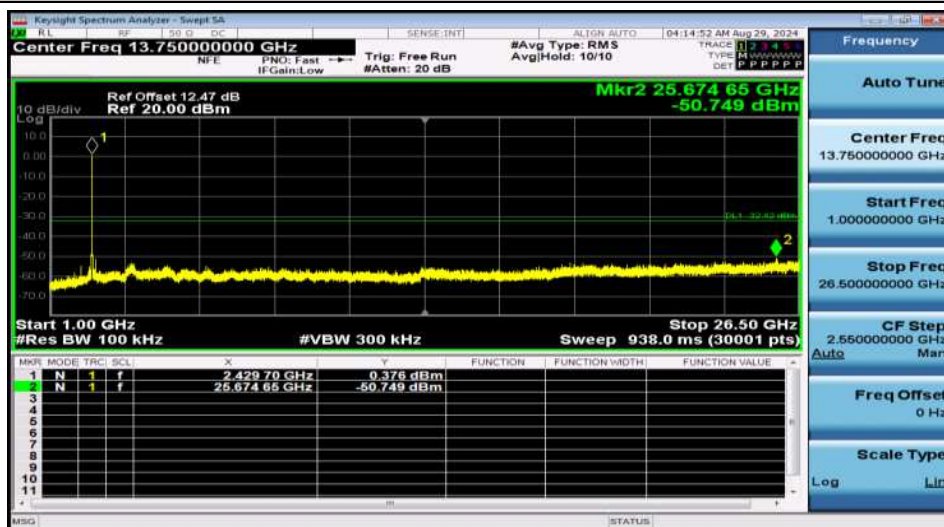
11G-Ant1-2412-1000~26500-PASS



11G-Ant1-2437-0~Reference-PASS



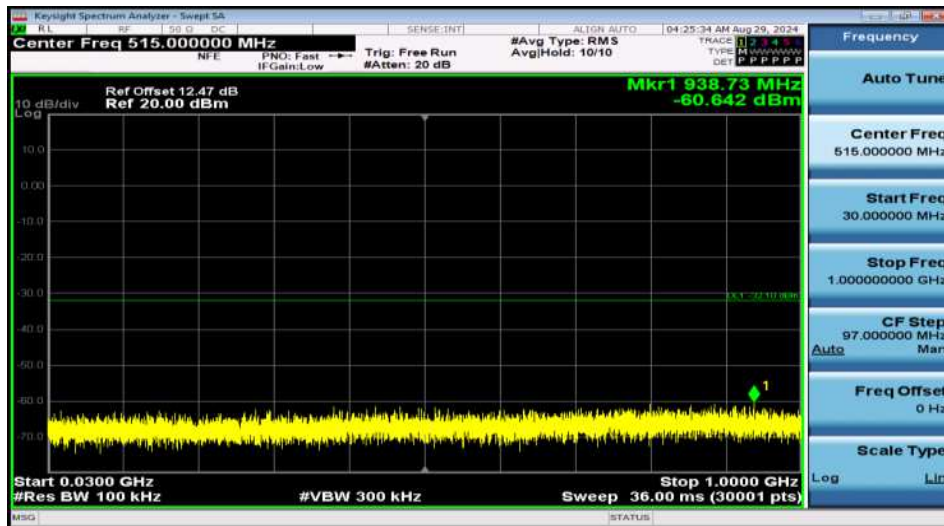
11G-Ant1-2437-30~1000-PASS



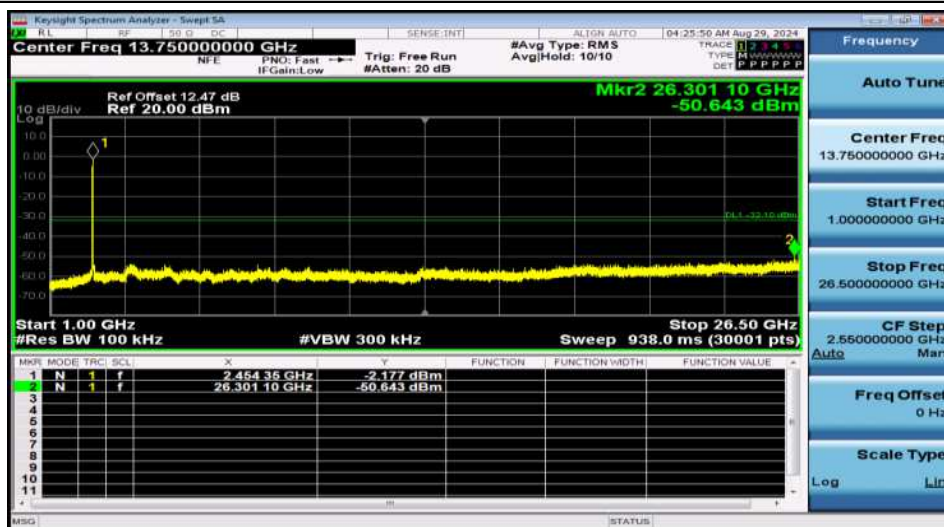
11G-Ant1-2437-1000~26500-PASS



11G-Ant1-2462-0~Reference-PASS



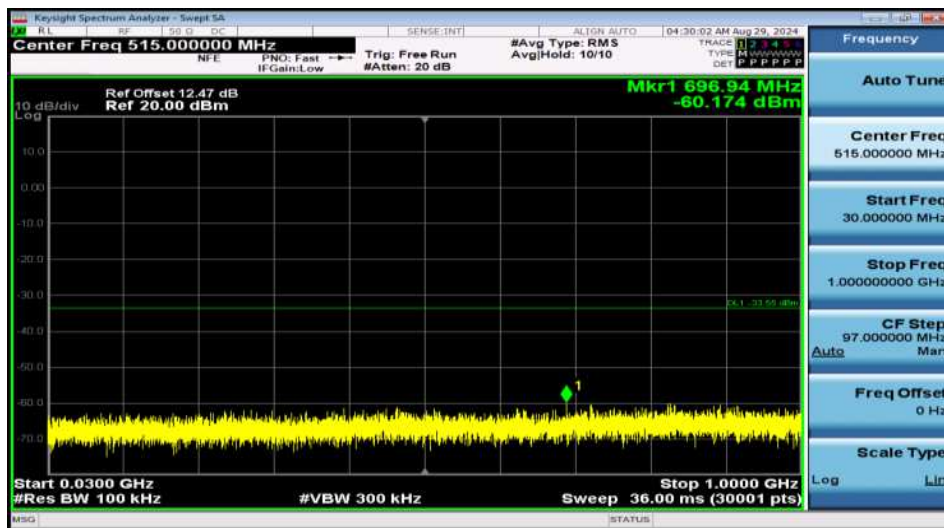
11G-Ant1-2462-30~1000-PASS



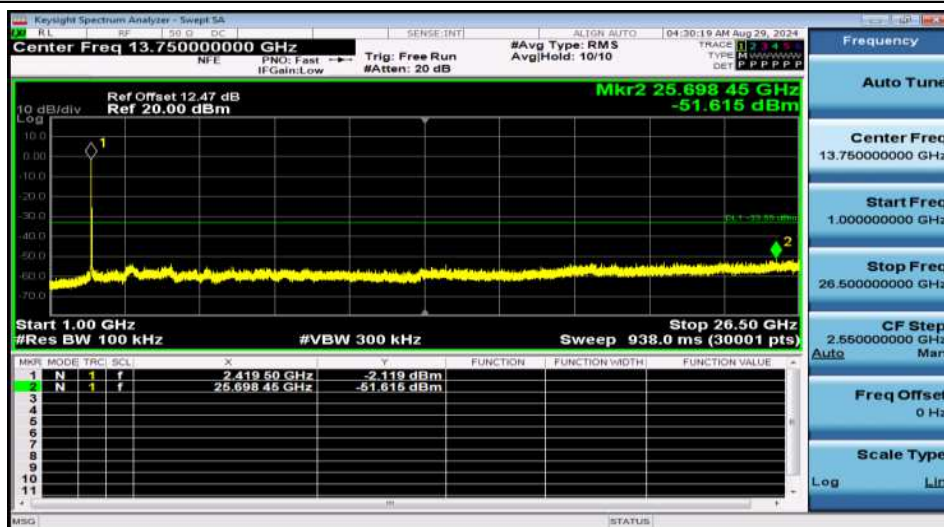
11G-Ant1-2462-1000~26500-PASS



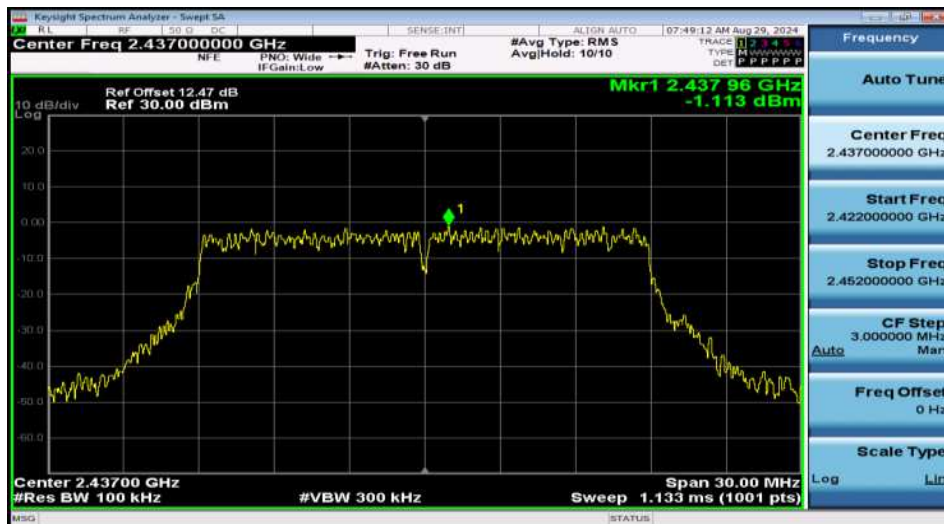
11N20SISO-Ant1-2412-0~Reference-PASS



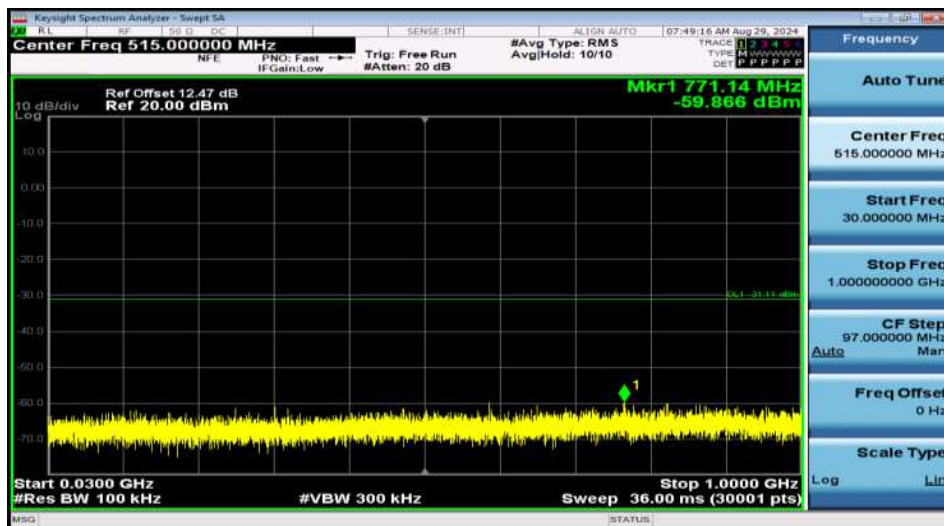
11N20SISO-Ant1-2412-30~1000-PASS



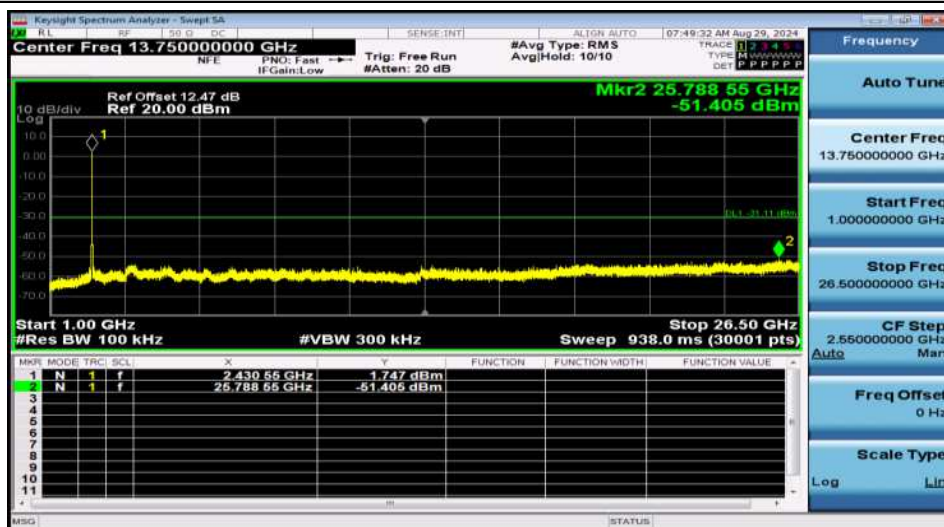
11N20SISO-Ant1-2412-1000~26500-PASS



11N20SISO-Ant1-2437-0~Reference-PASS



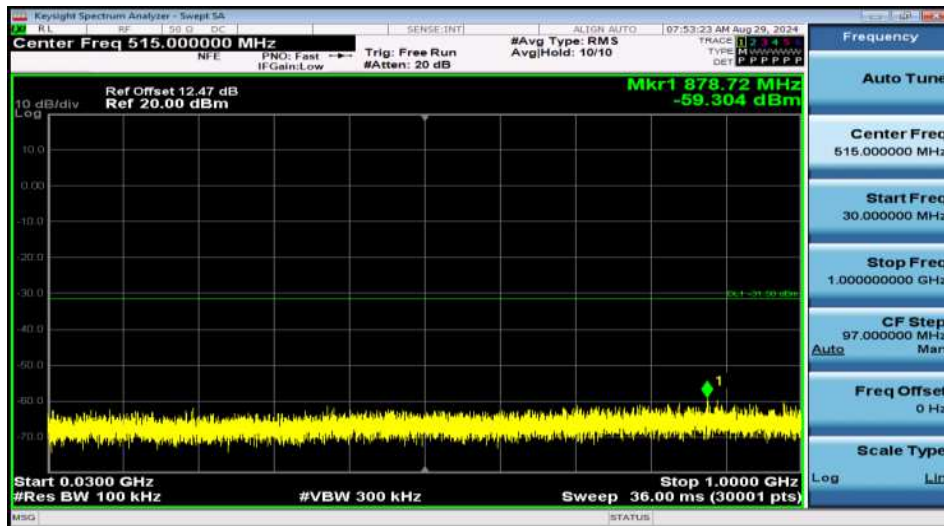
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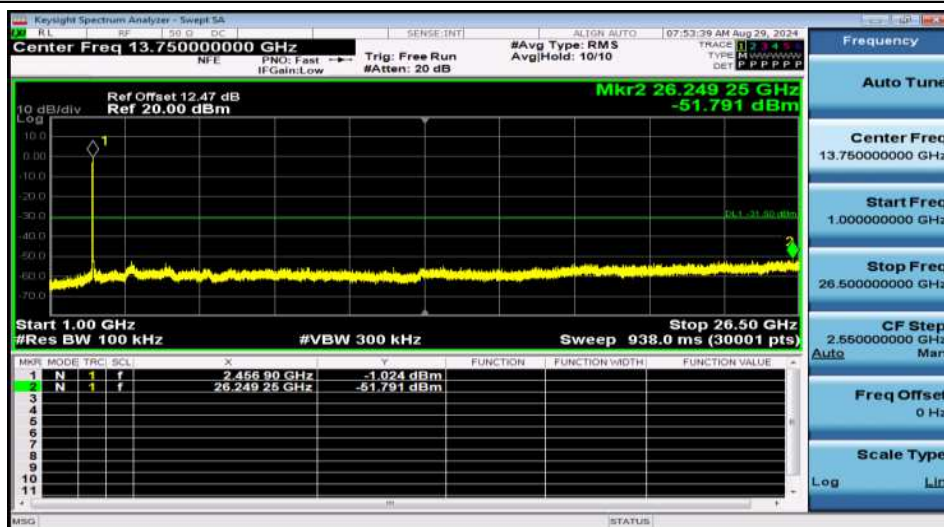
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11N20SISO-Ant1-2462-0~Reference-PASS



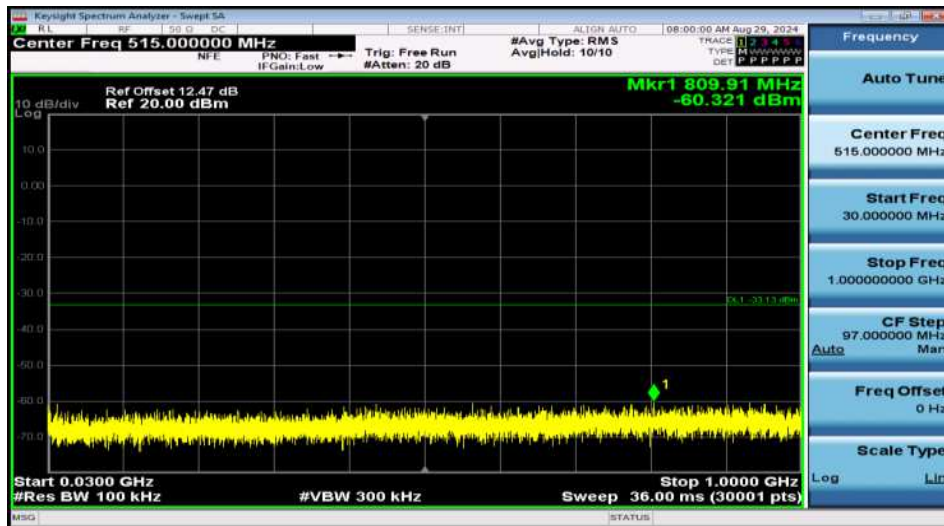
11N20SISO-Ant1-2462-30~1000-PASS



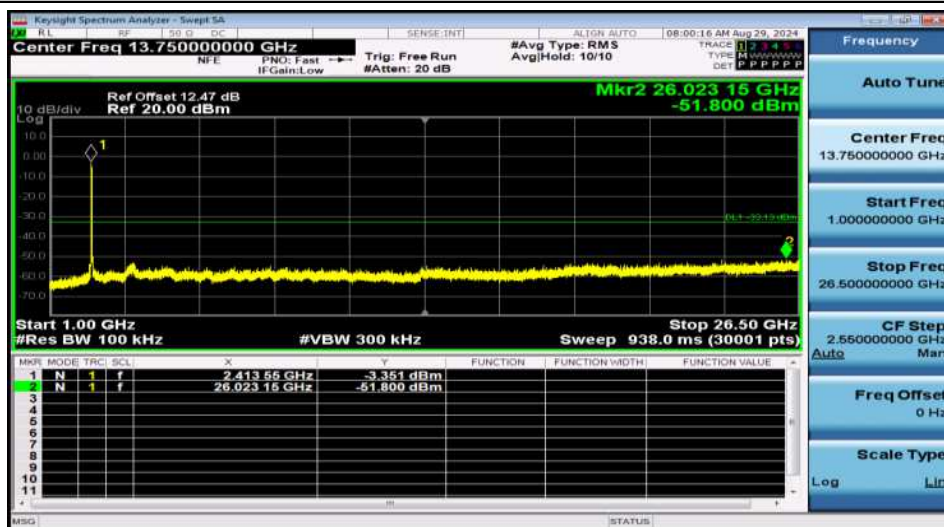
11N20SISO-Ant1-2462-1000~26500-PASS



11N40SISO-Ant1-2422-0~Reference-PASS



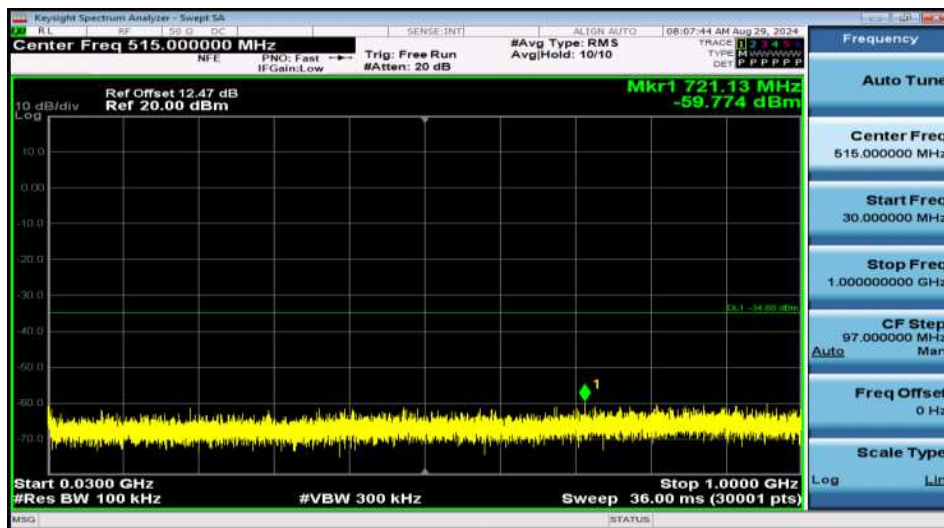
11N40SISO-Ant1-2422-30~1000-PASS



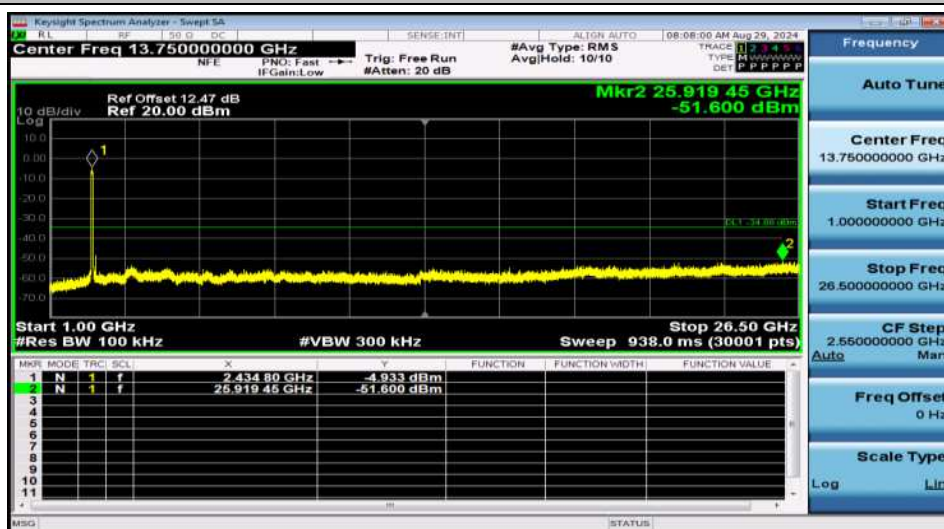
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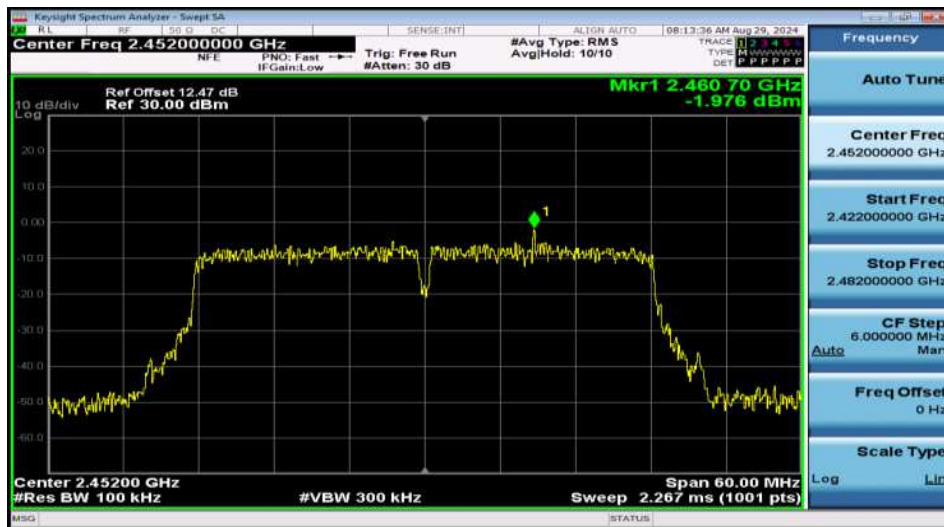
11N40SISO-Ant1-2437-0~Reference-PASS



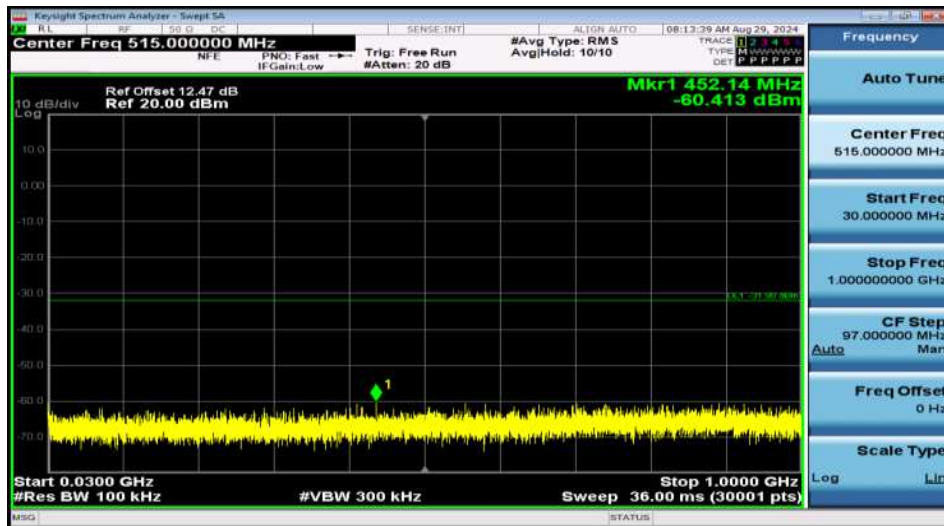
11N40SISO-Ant1-2437-30~1000-PASS



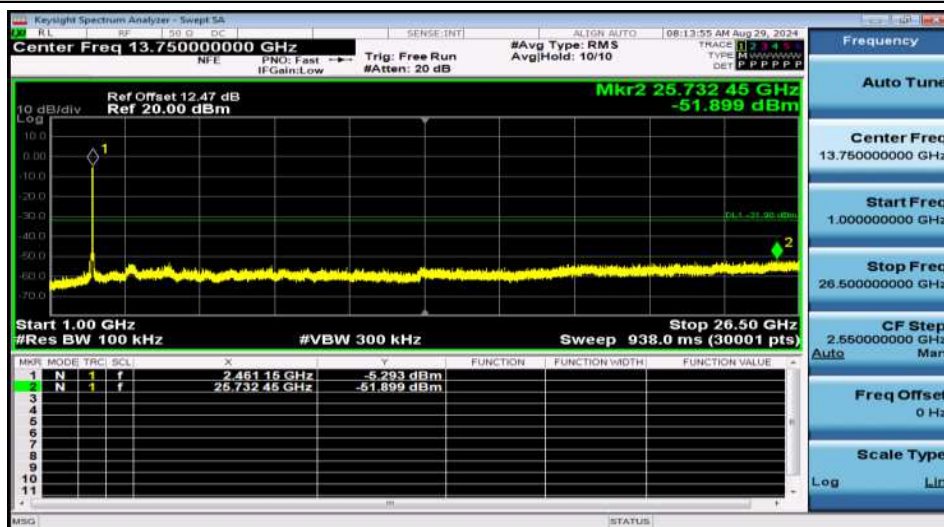
11N40SISO-Ant1-2437-1000~26500-PASS



11N40SISO-Ant1-2452-0~Reference-PASS



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



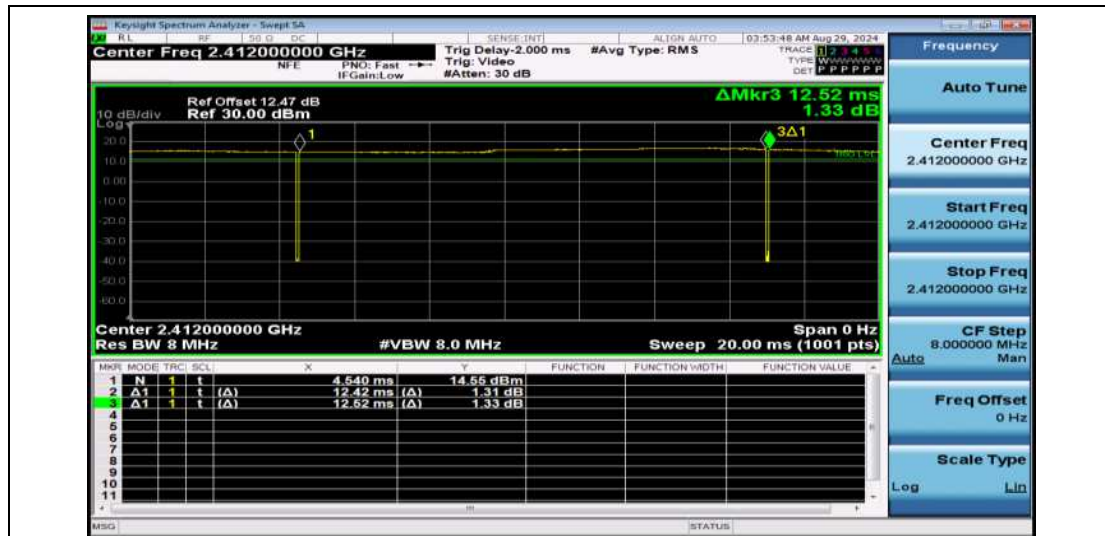
11N40SISO-Ant1-2452-1000~26500-PASS

Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.42	12.52	99.20	0.03
11B	Ant1	2437	12.43	12.56	98.96	0.05
11B	Ant1	2462	12.42	12.56	98.89	0.05
11G	Ant1	2412	2.06	2.30	89.57	0.48
11G	Ant1	2437	2.06	2.30	89.57	0.48
11G	Ant1	2462	2.06	2.24	91.96	0.36
11N20SISO	Ant1	2412	1.92	2.18	88.07	0.55
11N20SISO	Ant1	2437	1.92	2.16	88.89	0.51
11N20SISO	Ant1	2462	1.92	2.18	88.07	0.55
11N40SISO	Ant1	2422	0.94	1.46	64.38	1.91
11N40SISO	Ant1	2437	0.00	0.00	100	NaN
11N40SISO	Ant1	2452	0.94	1.18	79.66	0.99

Test Graphs



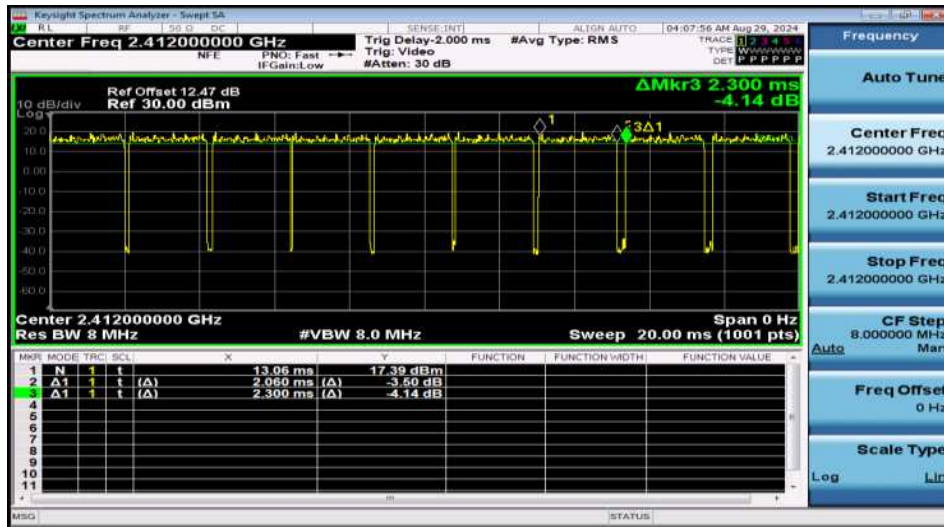
NTNV-11B-Ant1-2412



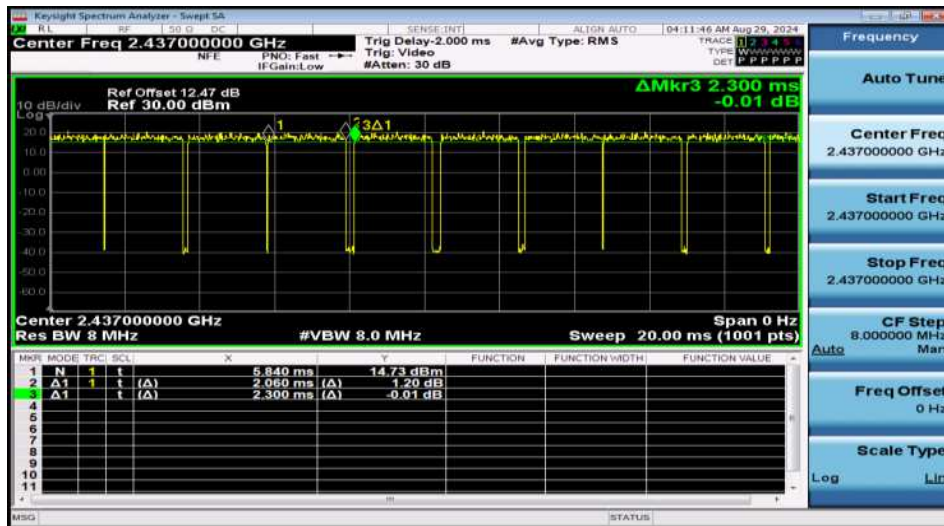
NTNV-11B-Ant1-2437



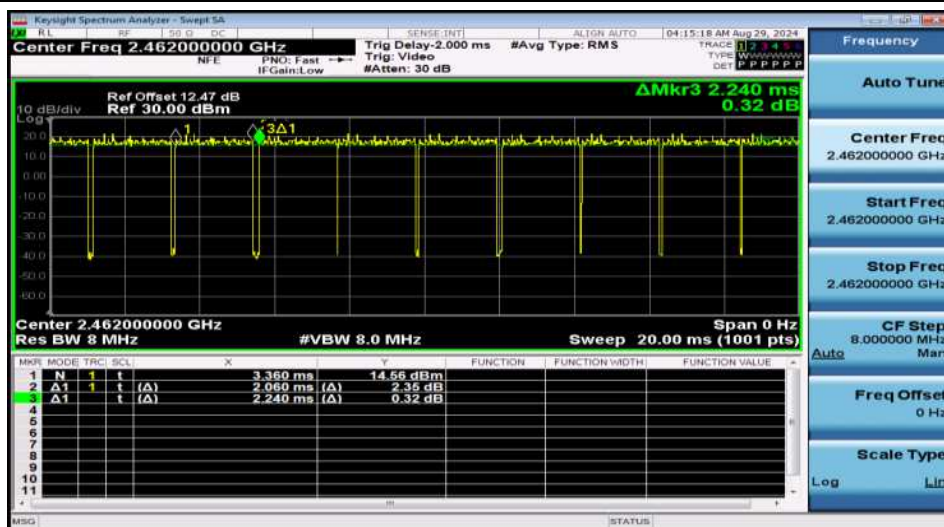
NTNV-11B-Ant1-2462



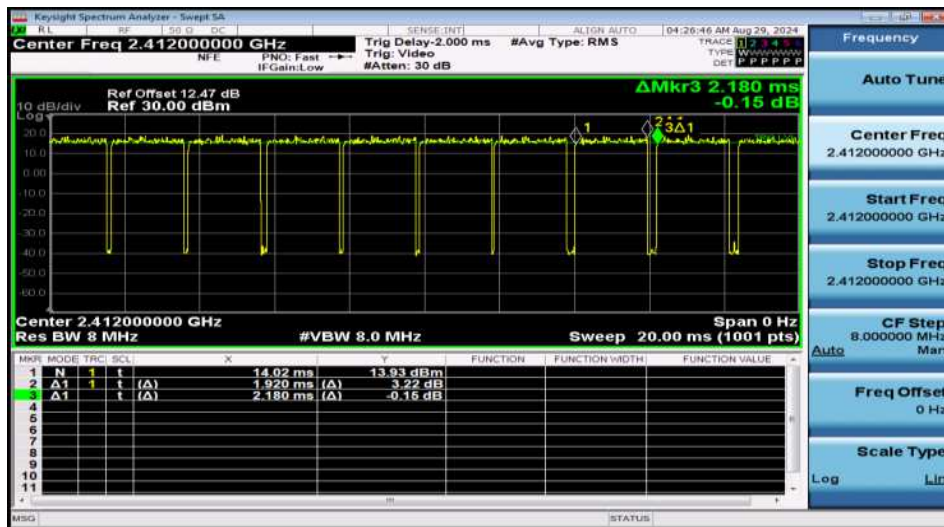
NTNV-11G-Ant1-2412



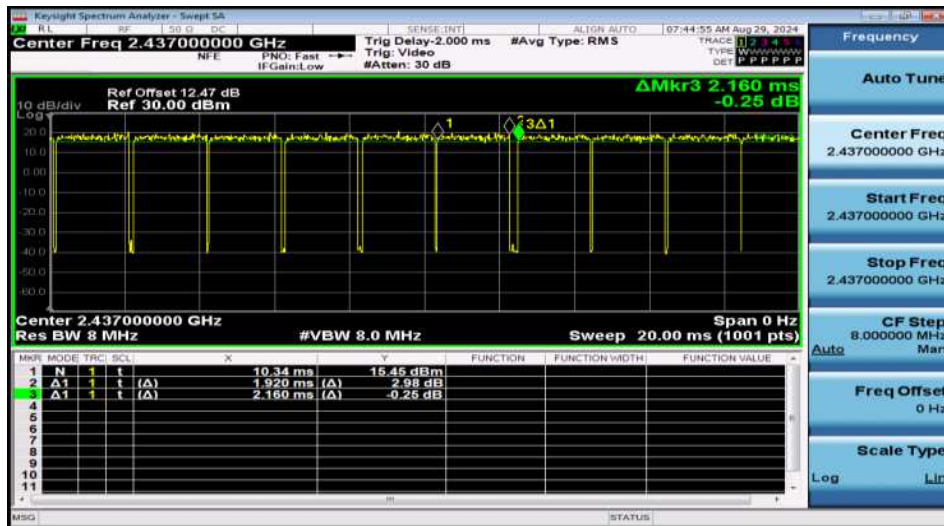
NTNV-11G-Ant1-2437



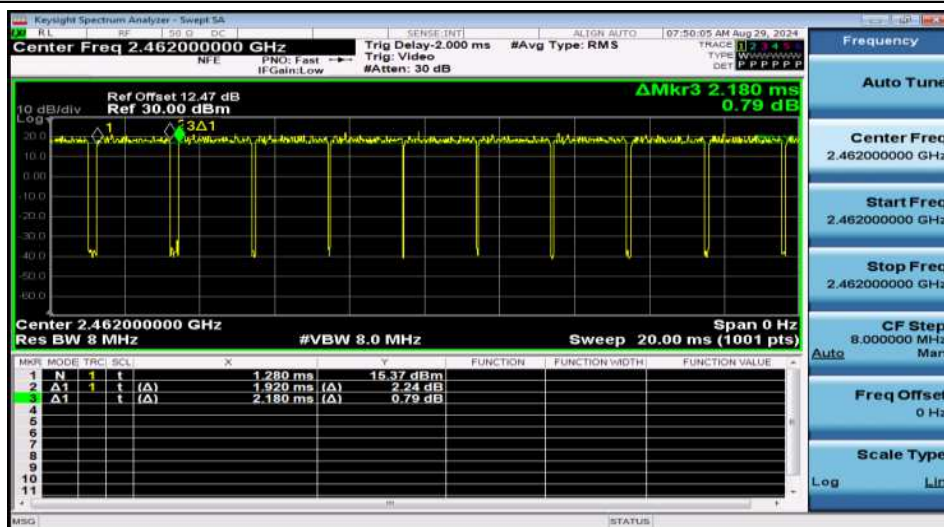
NTNV-11G-Ant1-2462



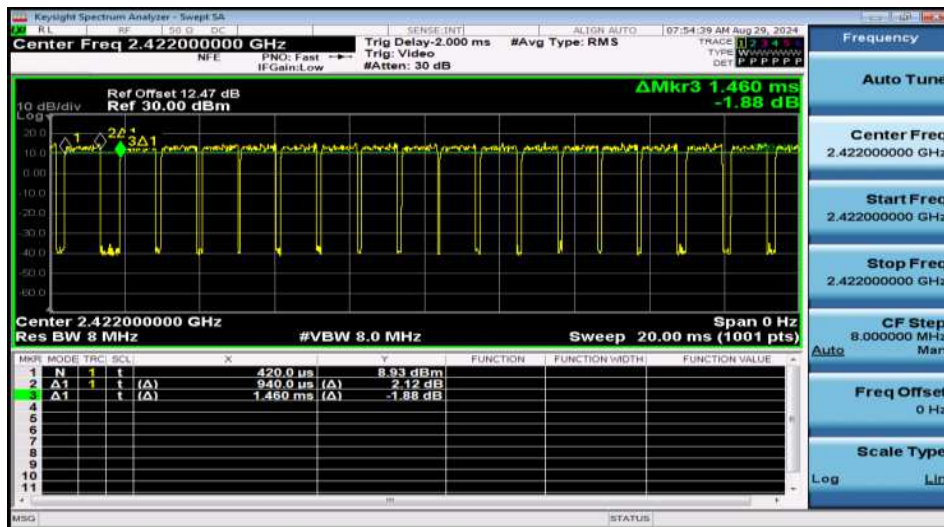
NTNV-11N20SISO-Ant1-2412



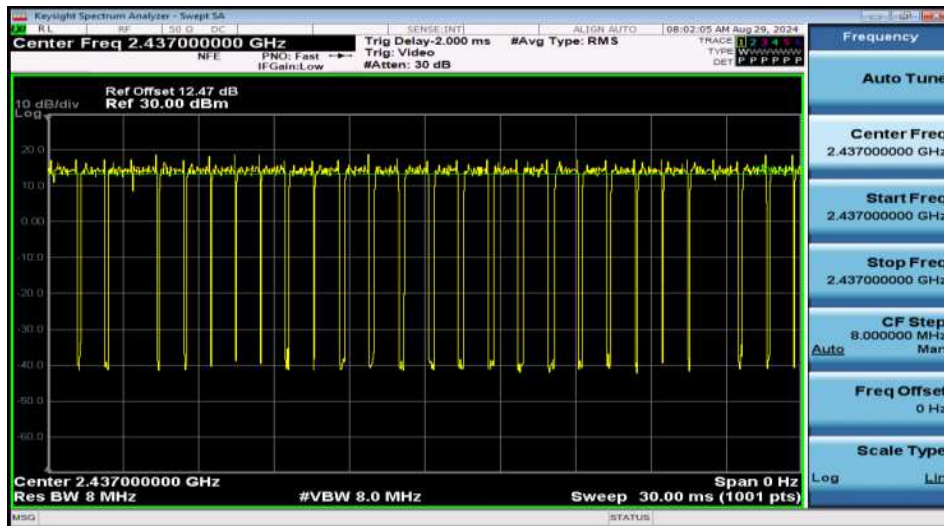
NTNV-11N20SISO-Ant1-2437



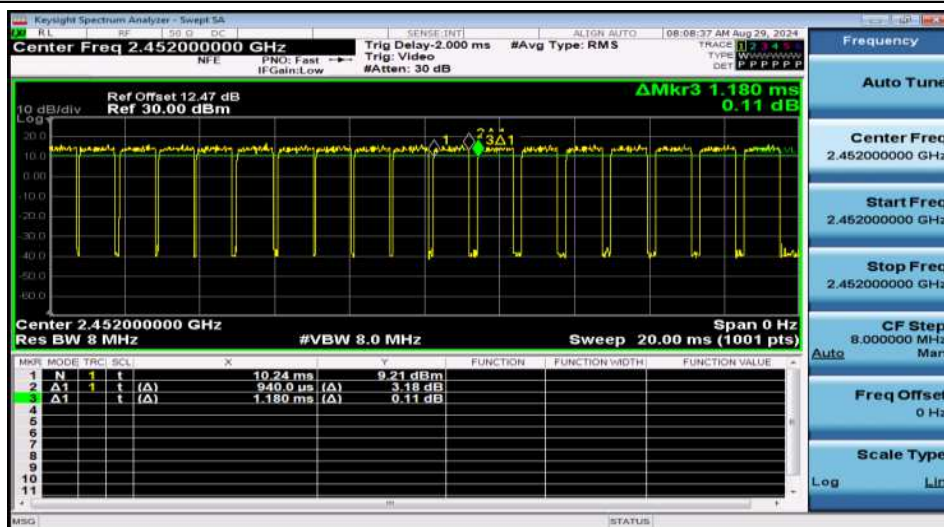
NTNV-11N20SISO-Ant1-2462



NTNV-11N40SISO-Ant1-2422



NTNV-11N40SISO-Ant1-2437



NTNV-11N40SISO-Ant1-2452