Appendix for BLE mode

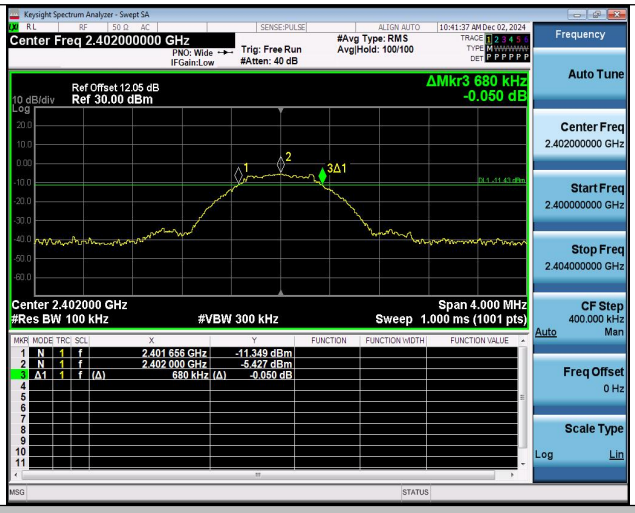
Product Name: REKKIE Smart Snow Goggles - International Version
Model No: SKI-INT

Appendix A: DTS Bandwidth

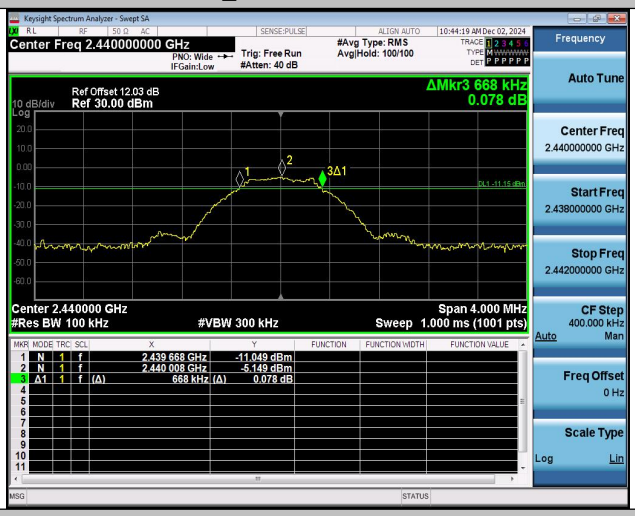
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.680	2401.656	2402.336	0.5	PASS
BLE_1M	Ant1	2440	0.668	2439.668	2440.336	0.5	PASS
BLE_1M	Ant1	2480	0.660	2479.672	2480.332	0.5	PASS
BLE_2M	Ant1	2402	1.344	2401.324	2402.668	0.5	PASS
BLE_2M	Ant1	2440	1.336	2439.332	2440.668	0.5	PASS
BLE_2M	Ant1	2480	1.340	2479.324	2480.664	0.5	PASS

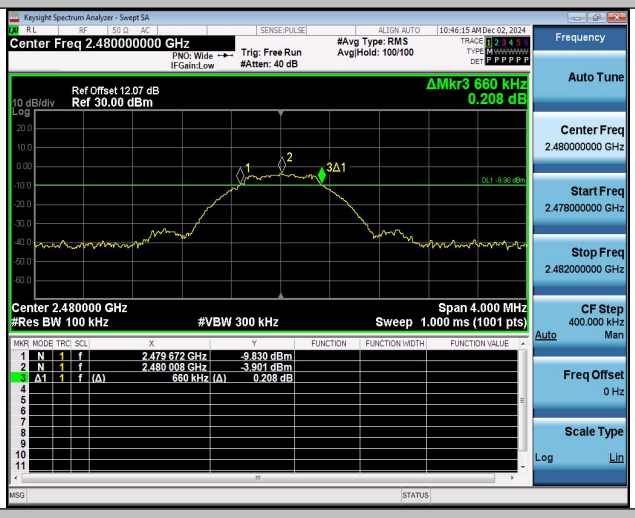
Test Graphs



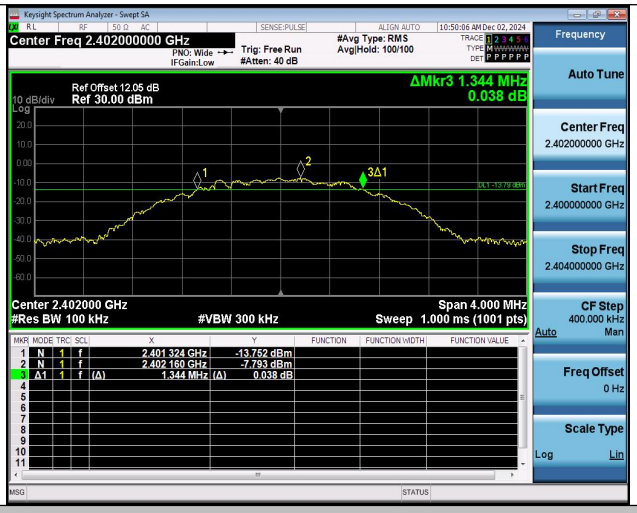
BLE_1M-Ant1-2402-PASS



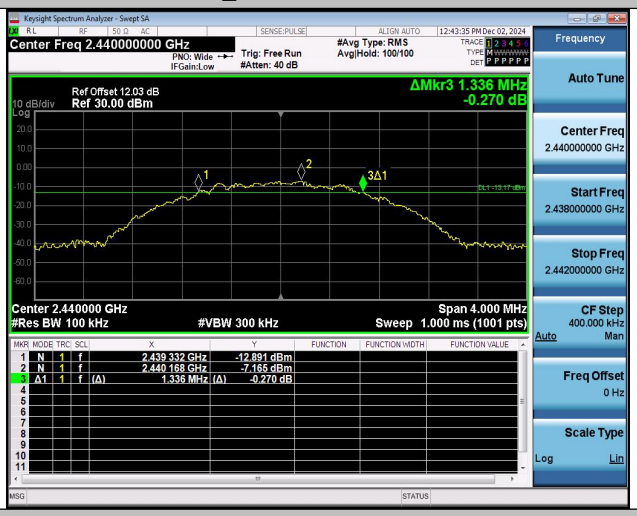
BLE_1M-Ant1-2440-PASS



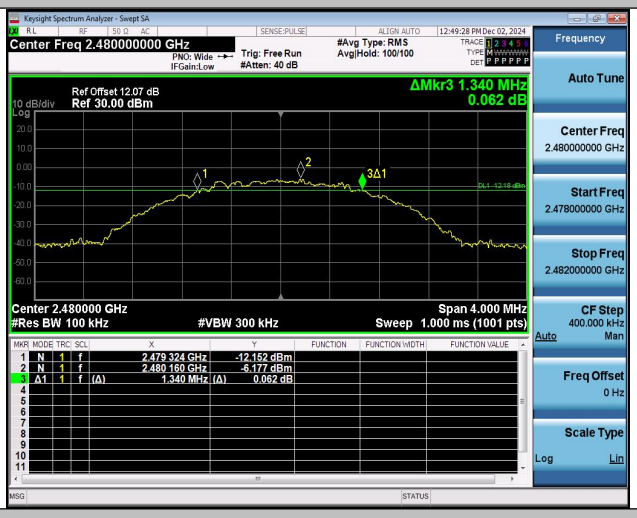
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



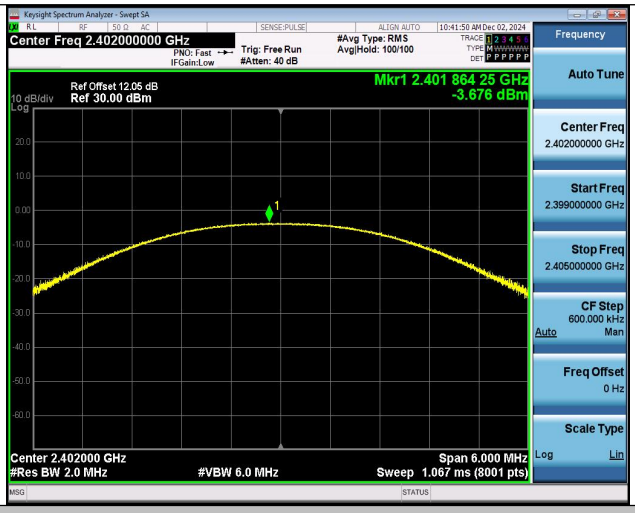
BLE_2M-Ant1-2480-PASS

Appendix B: Maximum conducted output power

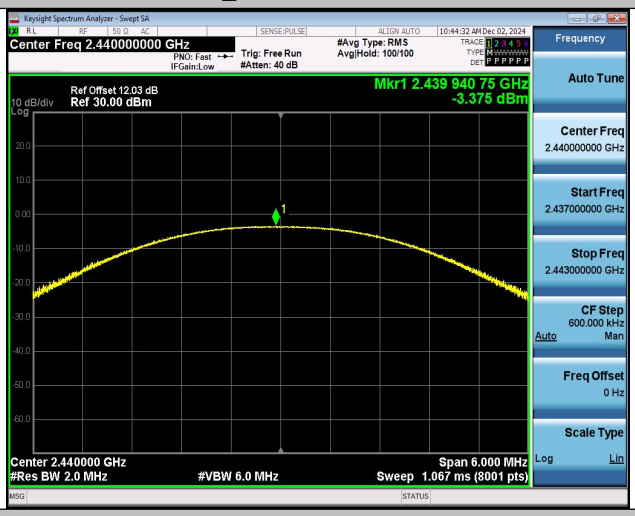
Test Result Peak

TestMode	Antenna	Frequency [MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.68	≤30	PASS
BLE_1M	Ant1	2440	-3.38	≤30	PASS
BLE_1M	Ant1	2480	-2.23	≤30	PASS
BLE_2M	Ant1	2402	-4.12	≤30	PASS
BLE_2M	Ant1	2440	-3.53	≤30	PASS
BLE_2M	Ant1	2480	-2.49	≤30	PASS

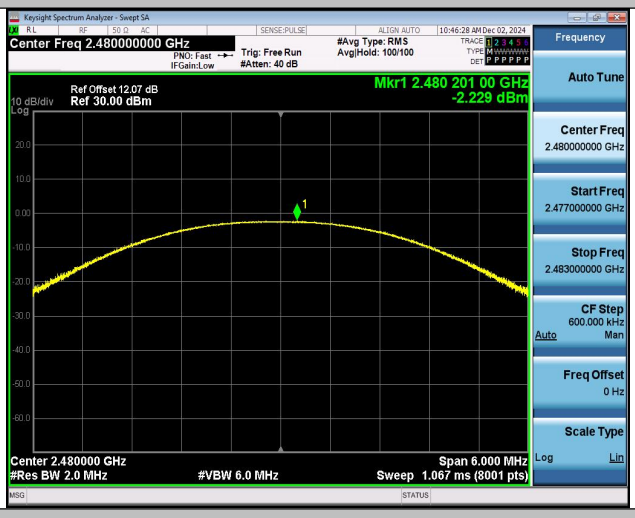
Test Graphs Peak



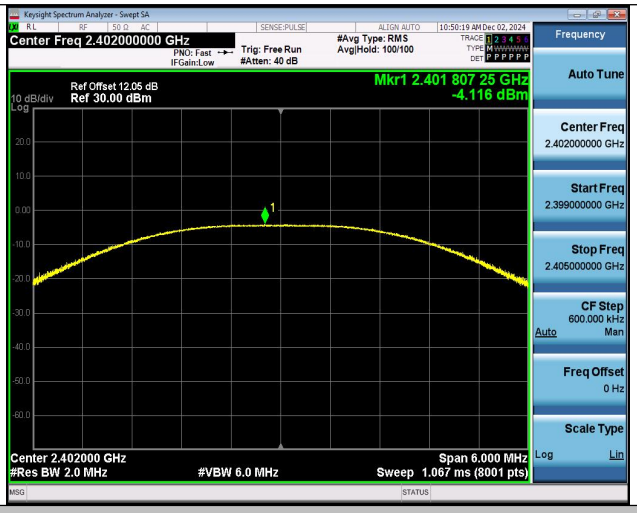
BLE_1M-Ant1-2402-PASS



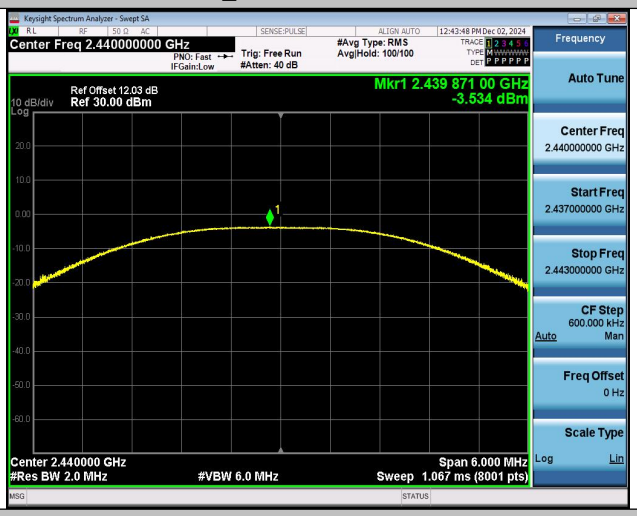
BLE_1M-Ant1-2440-PASS



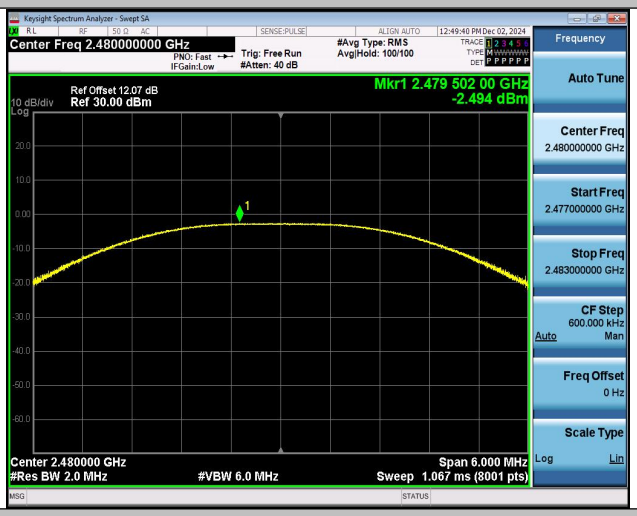
BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

Appendix C: Maximum power spectral density

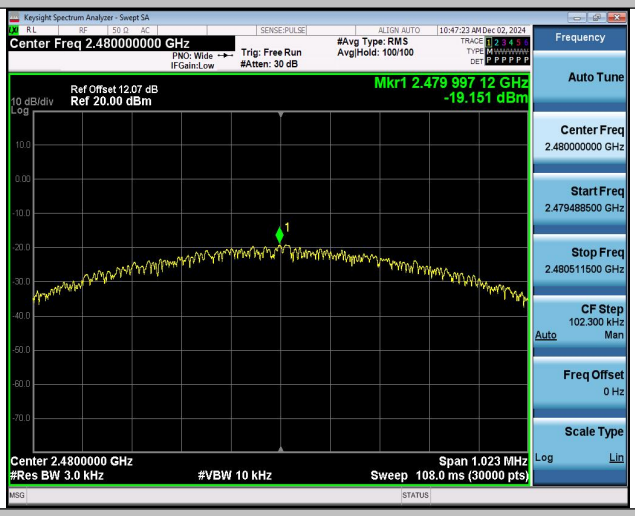
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-20.93	≤8.00	PASS
BLE_1M	Ant1	2440	-20.35	≤8.00	PASS
BLE_1M	Ant1	2480	-19.15	≤8.00	PASS
BLE_2M	Ant1	2402	-26.50	≤8.00	PASS
BLE_2M	Ant1	2440	-25.68	≤8.00	PASS
BLE_2M	Ant1	2480	-24.60	≤8.00	PASS

Test Graphs

BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

BLE_2M-Ant1-2402-PASS

BLE_2M-Ant1-2440-PASS

BLE_2M-Ant1-2480-PASS

Appendix D: Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2401.99	-5.70
BLE_1M	Ant1	2440	2439.99	-5.13
BLE_1M	Ant1	2480	2480.00	-4.00
BLE_2M	Ant1	2402	2402.16	-7.99
BLE_2M	Ant1	2440	2439.99	-7.44
BLE_2M	Ant1	2480	2479.98	-6.23

Test Graphs

BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS

BLE_1M-Ant1-2480-PASS

BLE_2M-Ant1-2402-PASS

BLE_2M-Ant1-2440-PASS

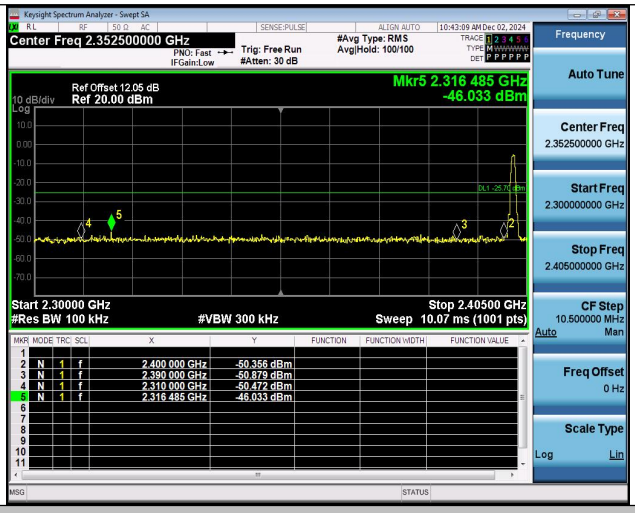
BLE_2M-Ant1-2480-PASS

Appendix E: Band edge measurements

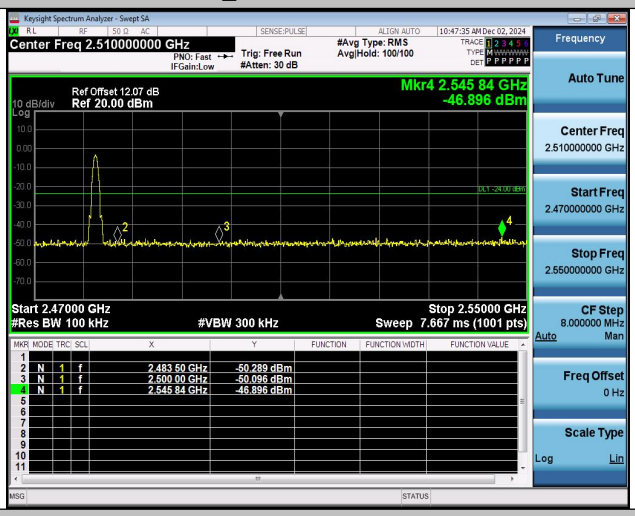
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-5.70	-46.03	≤-25.7	PASS
BLE_1M	Ant1	High	2480	-4.00	-46.9	≤-24	PASS
BLE_2M	Ant1	Low	2402	-7.99	-47.16	≤-27.99	PASS
BLE_2M	Ant1	High	2480	-6.23	-46.56	≤-26.23	PASS

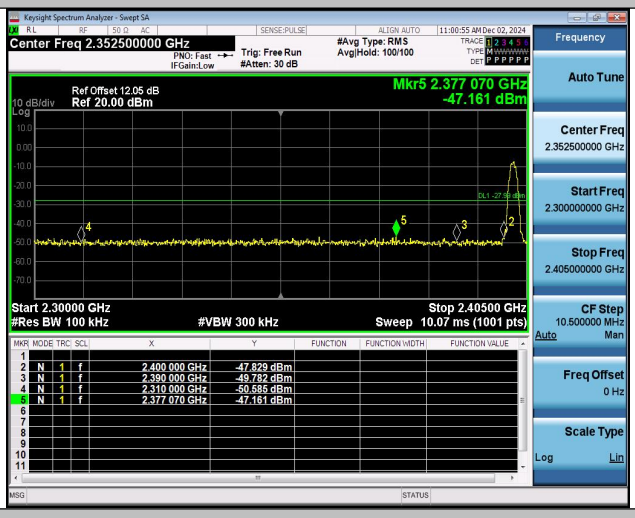
Test Graphs



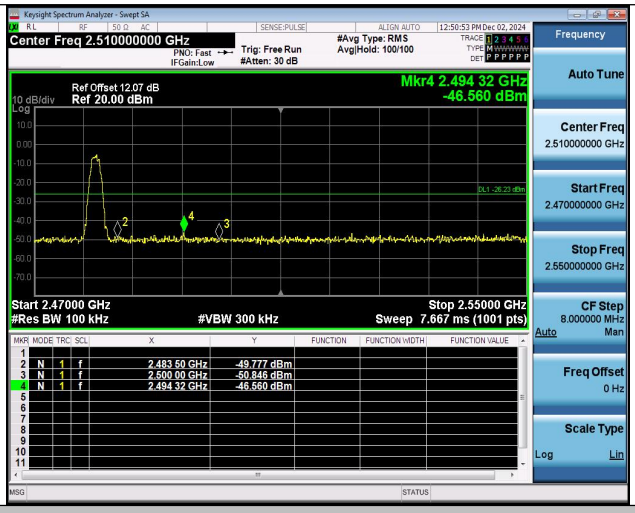
BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



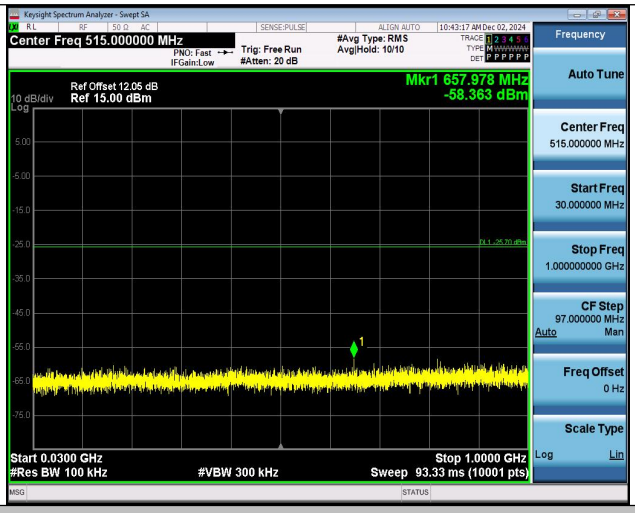
BLE_2M-Ant1-2480-PASS

Appendix F: Conducted Spurious Emission

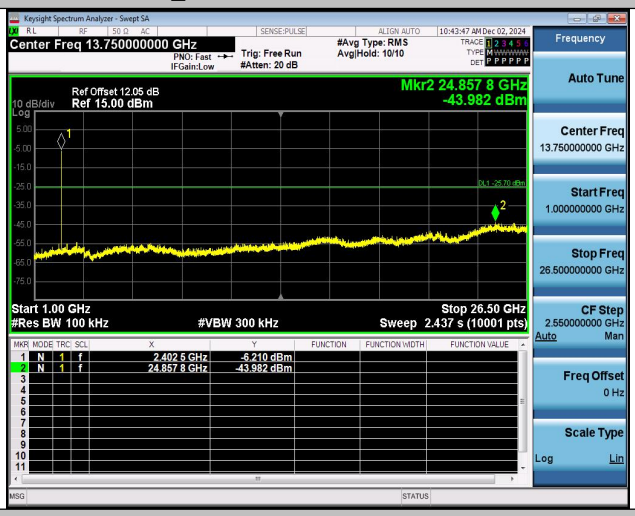
Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	-5.70	-58.36	≤-25.7	PASS
BLE_1M	Ant1	2402	1000~26500	-5.70	-43.98	≤-25.7	PASS
BLE_1M	Ant1	2440	30~1000	-5.13	-59.37	≤-25.13	PASS
BLE_1M	Ant1	2440	1000~26500	-5.13	-44.41	≤-25.13	PASS
BLE_1M	Ant1	2480	30~1000	-4.00	-58.88	≤-24	PASS
BLE_1M	Ant1	2480	1000~26500	-4.00	-43.87	≤-24	PASS
BLE_2M	Ant1	2402	30~1000	-7.99	-59.26	≤-27.99	PASS
BLE_2M	Ant1	2402	1000~26500	-7.99	-44.03	≤-27.99	PASS
BLE_2M	Ant1	2440	30~1000	-7.44	-51.38	≤-27.44	PASS
BLE_2M	Ant1	2440	1000~26500	-7.44	-44.03	≤-27.44	PASS
BLE_2M	Ant1	2480	30~1000	-6.23	-58.91	≤-26.23	PASS
BLE_2M	Ant1	2480	1000~26500	-6.23	-44.62	≤-26.23	PASS

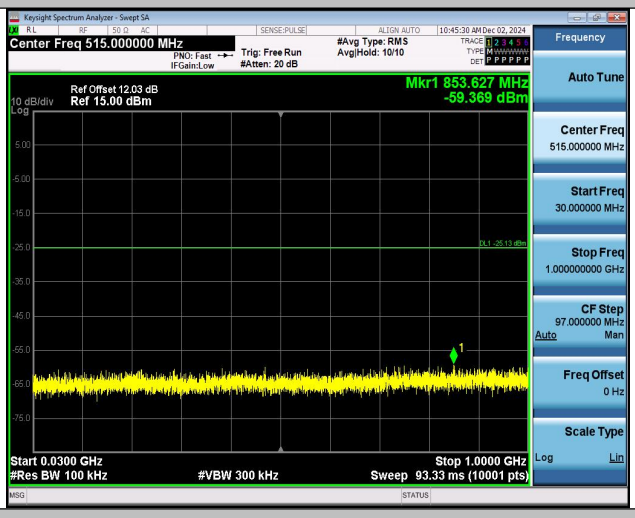
Test Graphs



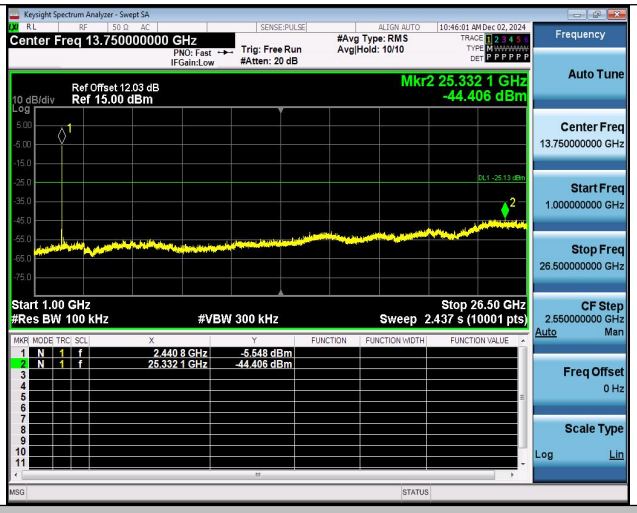
BLE_1M-Ant1-2402-30~1000-PASS



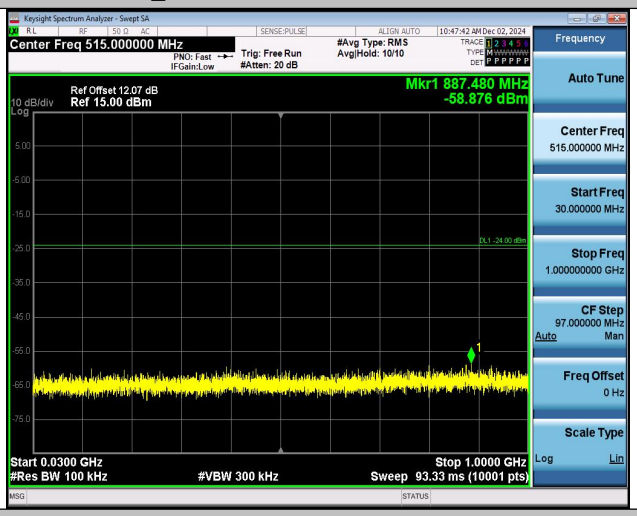
BLE_1M-Ant1-2402-1000~26500-PASS



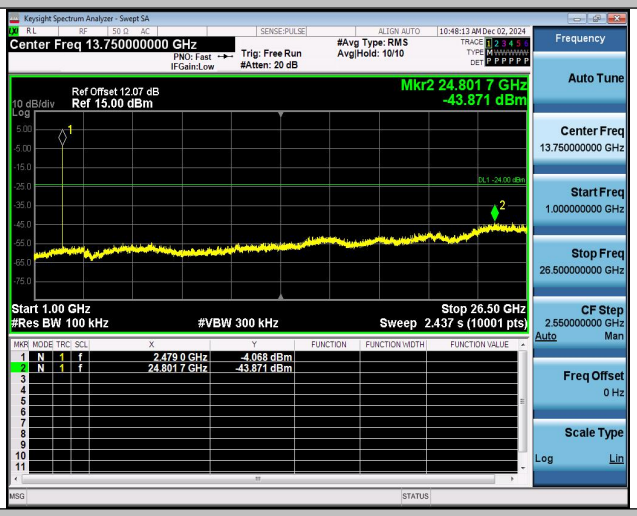
BLE_1M-Ant1-2440-30~1000-PASS



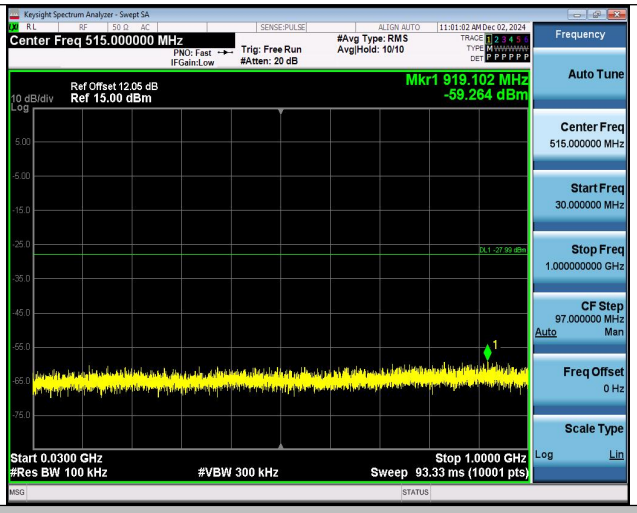
BLE_1M-Ant1-2440-1000~26500-PASS



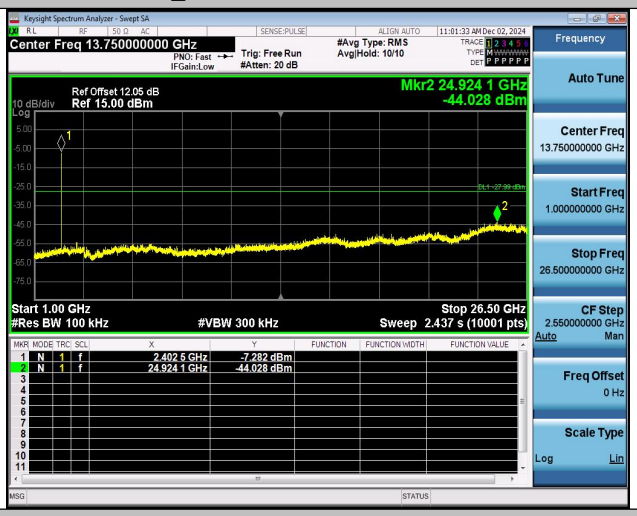
BLE_1M-Ant1-2480-30~1000-PASS



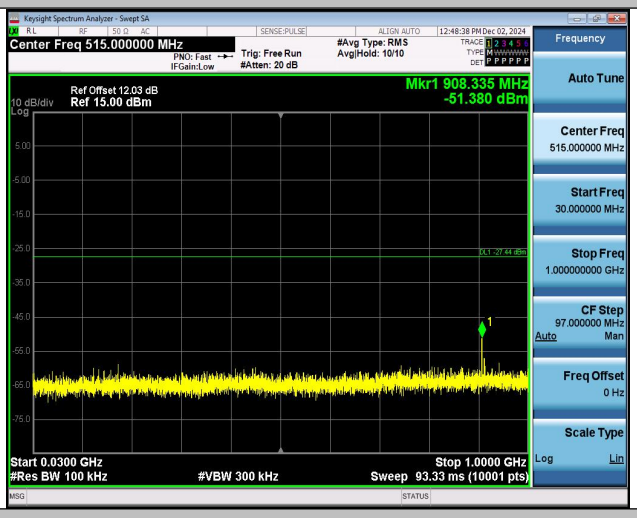
BLE_1M-Ant1-2480-1000~26500-PASS



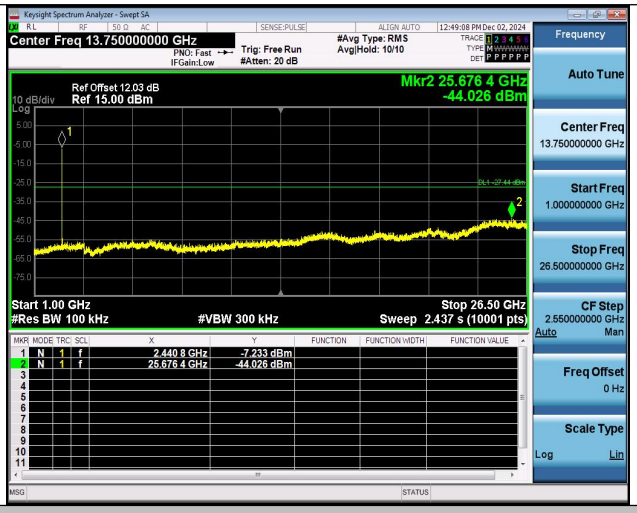
BLE_2M-Ant1-2402-30~1000-PASS



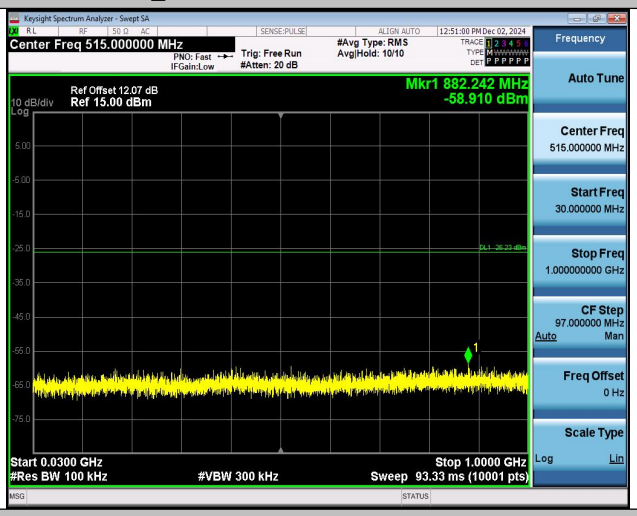
BLE_2M-Ant1-2402-1000~26500-PASS



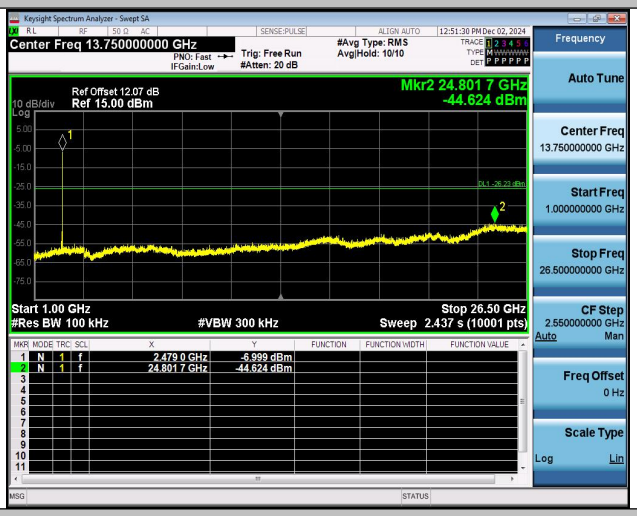
BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS