Appendix for Bluetooth

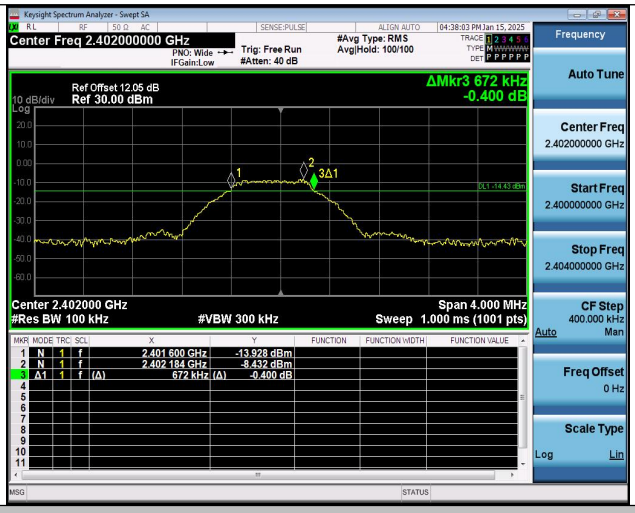
Product Name: MTS - Smart Puck
Model No: MTS-BCN-01

Appendix A: DTS Bandwidth

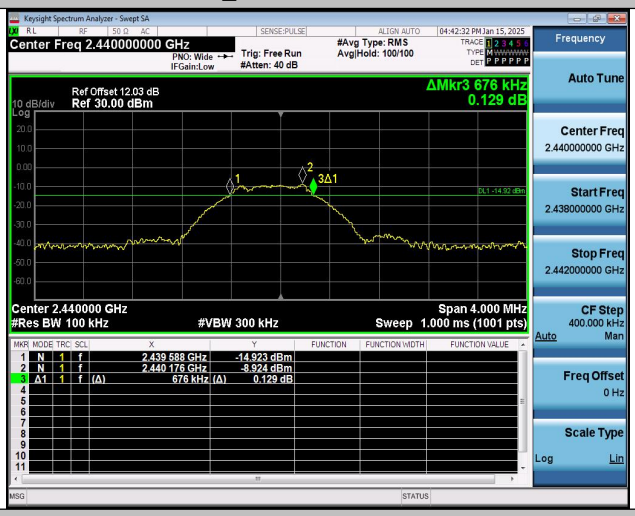
Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.672	2401.600	2402.272	0.5	PASS
BLE_1M	Ant1	2440	0.676	2439.588	2440.264	0.5	PASS
BLE_1M	Ant1	2480	0.668	2479.592	2480.260	0.5	PASS

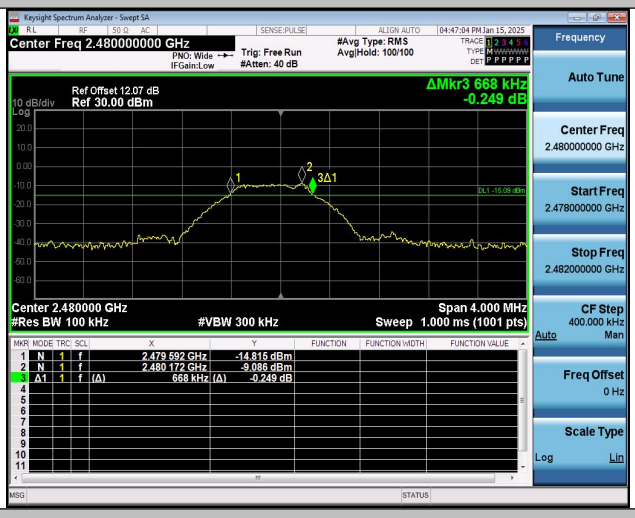
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



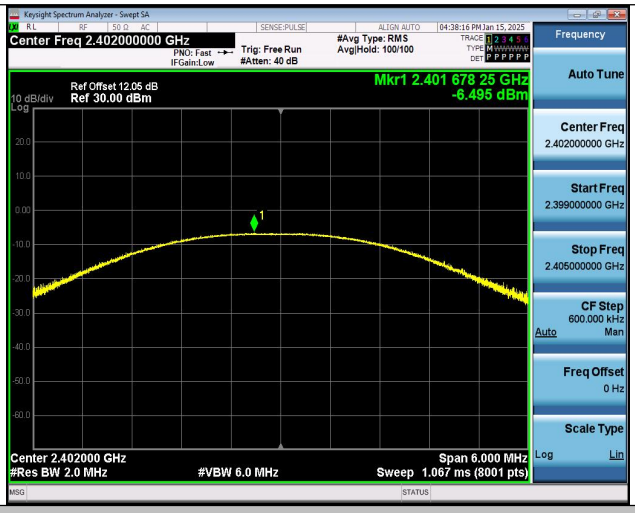
BLE_1M-Ant1-2480-PASS

Appendix B: Maximum conducted output power

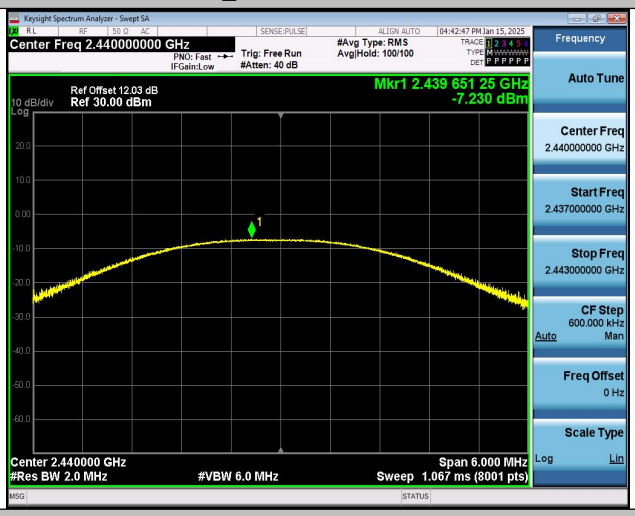
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-6.50	≤30	PASS
BLE_1M	Ant1	2440	-7.23	≤30	PASS
BLE_1M	Ant1	2480	-7.28	≤30	PASS

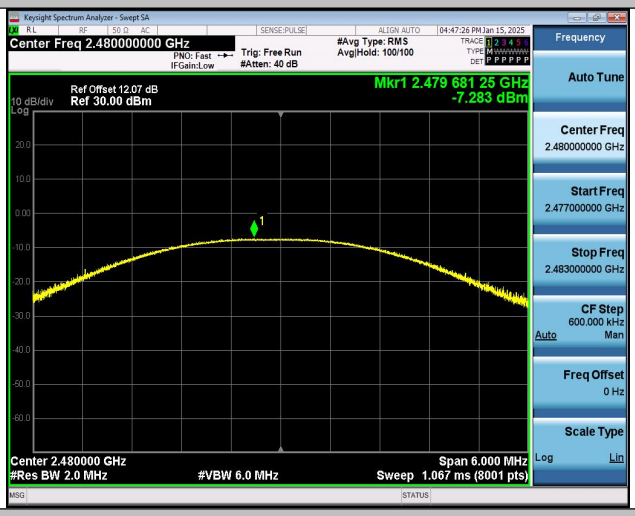
Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



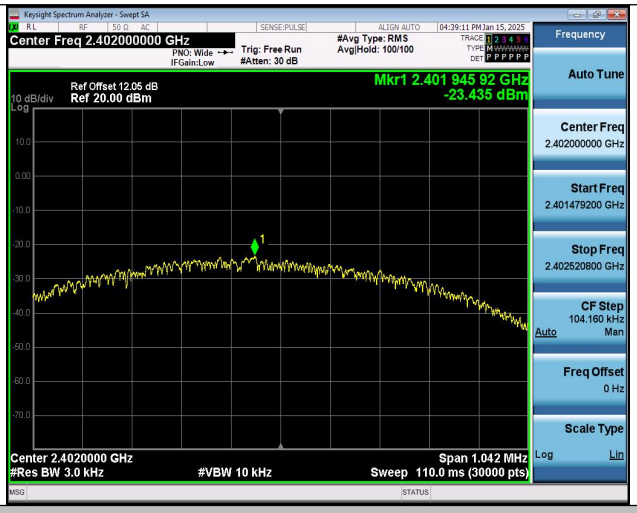
BLE_1M-Ant1-2480-PASS

Appendix C: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-23.44	≤8.00	PASS
BLE_1M	Ant1	2440	-24.37	≤8.00	PASS
BLE_1M	Ant1	2480	-23.86	≤8.00	PASS

Test Graphs



BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS

BLE_1M-Ant1-2480-PASS

Appendix D: Reference level measurement

Test Result

Test Mode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.17	-8.34
BLE_1M	Ant1	2440	2440.17	-8.98
BLE_1M	Ant1	2480	2480.16	-9.19

Test Graphs

BLE_1M-Ant1-2402-PASS

BLE_1M-Ant1-2440-PASS

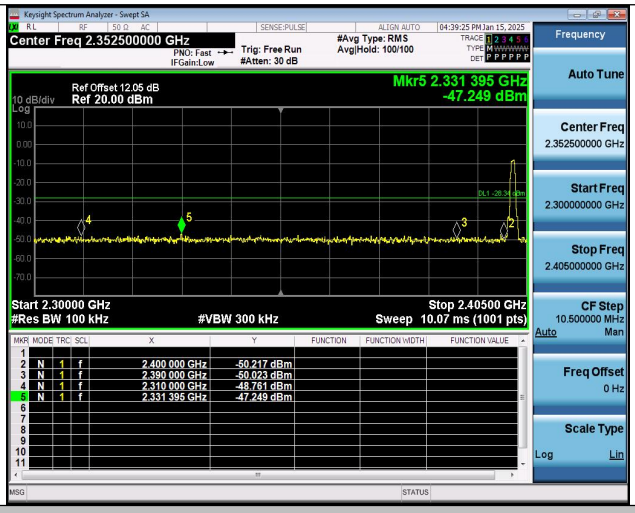
BLE_1M-Ant1-2480-PASS

Appendix E: Band edge measurements

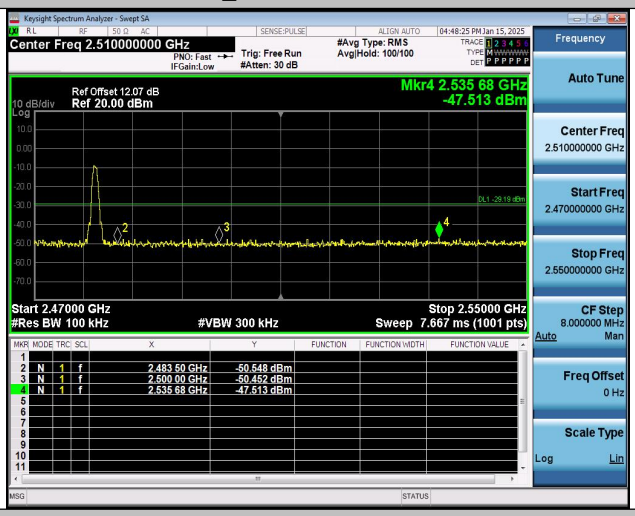
Test Result

Test Mode	Antenna	Channel	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-8.34	-47.25	≤-28.34	PASS
BLE_1M	Ant1	High	2480	-9.19	-47.51	≤-29.19	PASS

Test Graphs



BLE_1M-Ant1-2402-PASS



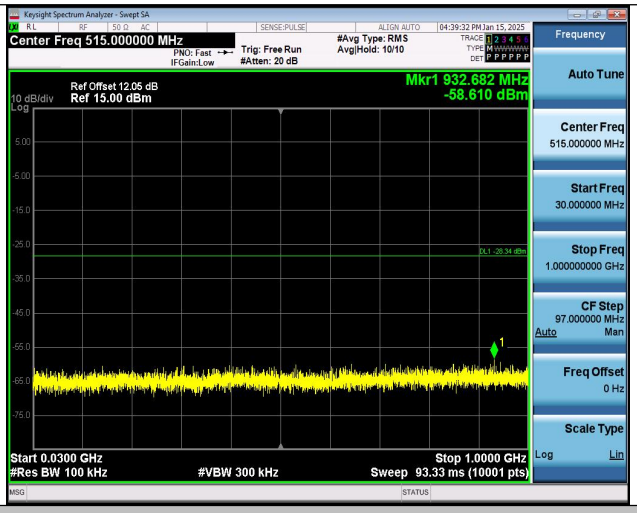
BLE_1M-Ant1-2480-PASS

Appendix F: Conducted Spurious Emission

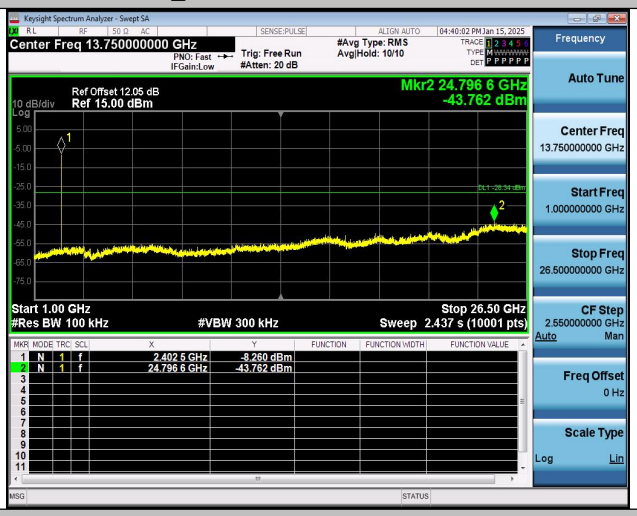
Test Result

Test Mode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	-8.34	-58.61	≤-28.34	PASS
BLE_1M	Ant1	2402	1000~26500	-8.34	-43.76	≤-28.34	PASS
BLE_1M	Ant1	2440	30~1000	-8.98	-58.81	≤-28.98	PASS
BLE_1M	Ant1	2440	1000~26500	-8.98	-44.34	≤-28.98	PASS
BLE_1M	Ant1	2480	30~1000	-9.19	-59.52	≤-29.19	PASS
BLE_1M	Ant1	2480	1000~26500	-9.19	-44.08	≤-29.19	PASS

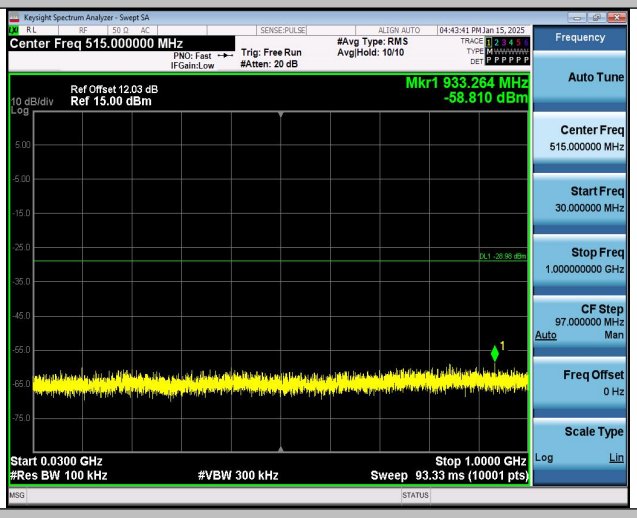
Test Graphs



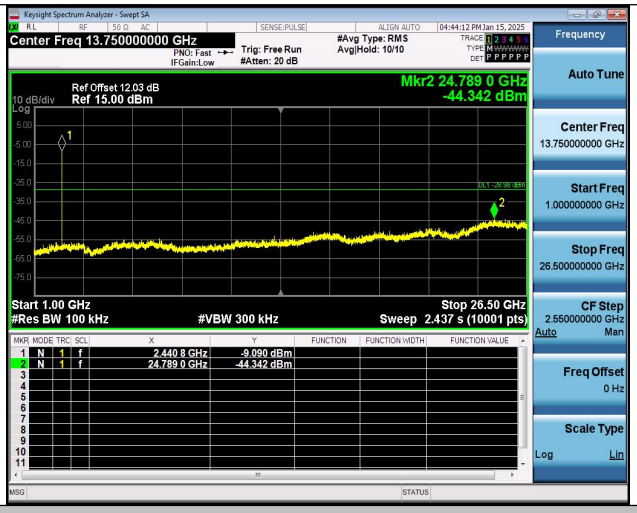
BLE_1M-Ant1-2402-30~1000-PASS



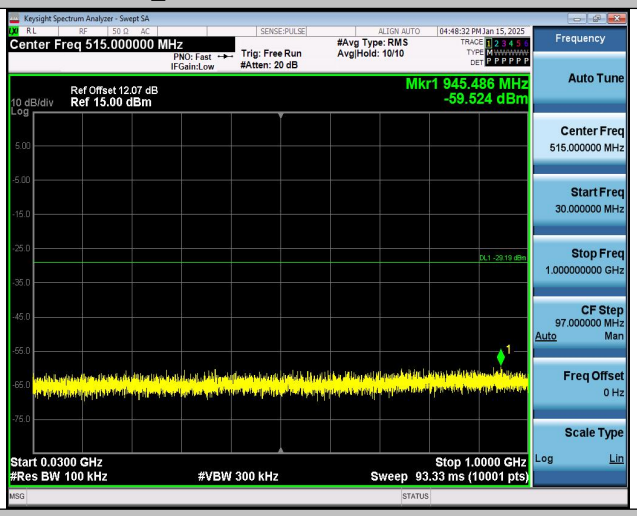
BLE_1M-Ant1-2402-1000~26500-PASS



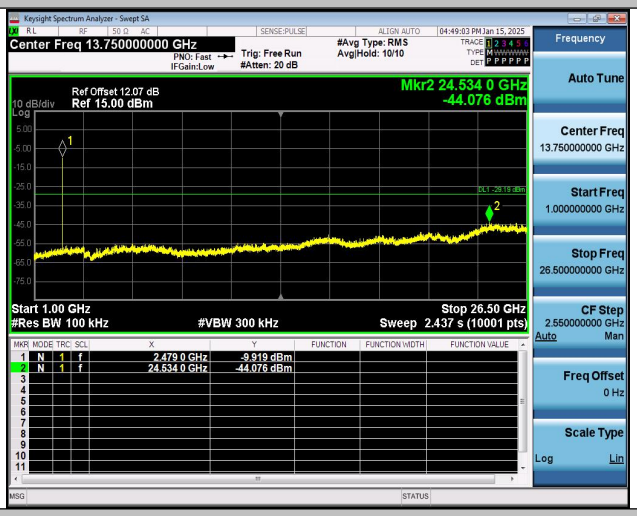
BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS