

Appendix A: Test Results of Bluetooth Low Energy

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Appendix A.1: Test Results of Conducted Power Spectral Density

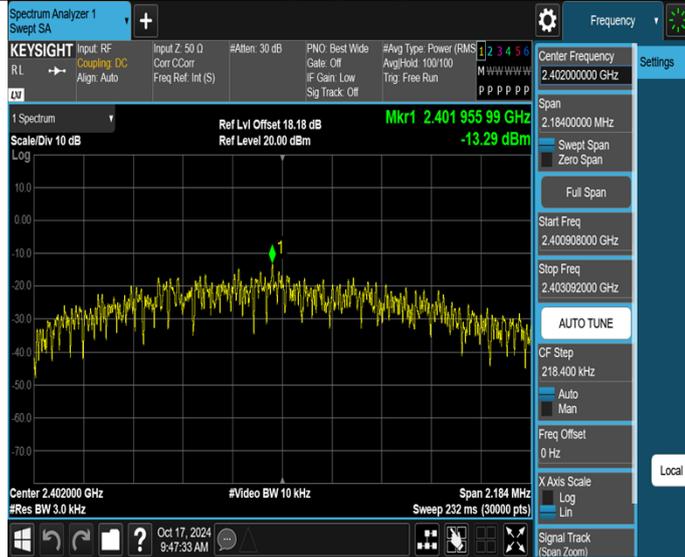
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.87	≤8.00	PASS
		2440	-10.88	≤8.00	PASS
		2480	-13.25	≤8.00	PASS
BLE_2M	Ant1	2402	-13.29	≤8.00	PASS
		2440	-13.37	≤8.00	PASS
		2480	-15.88	≤8.00	PASS

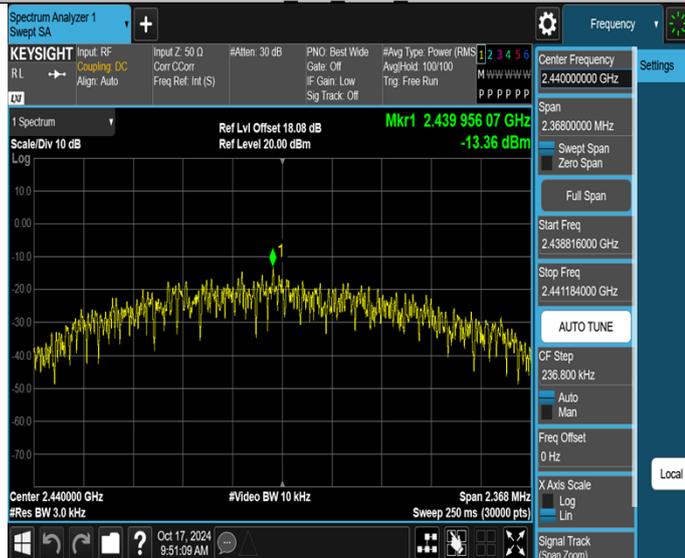
Test Graphs



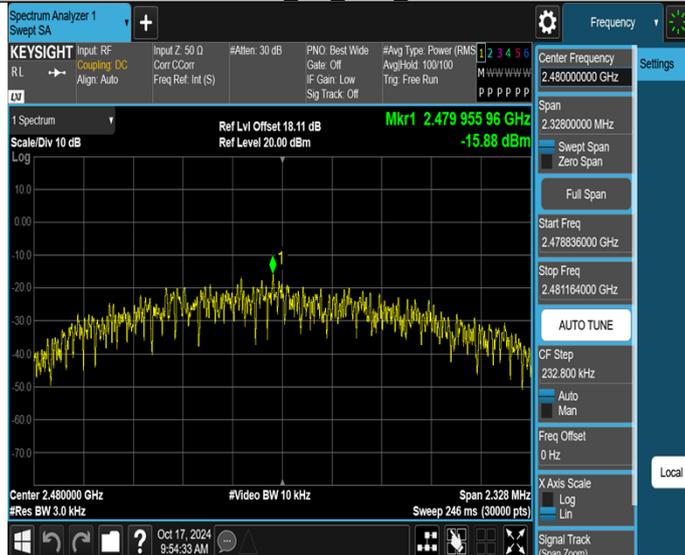
BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



Appendix A.2: Test Results of 6dB Bandwidth

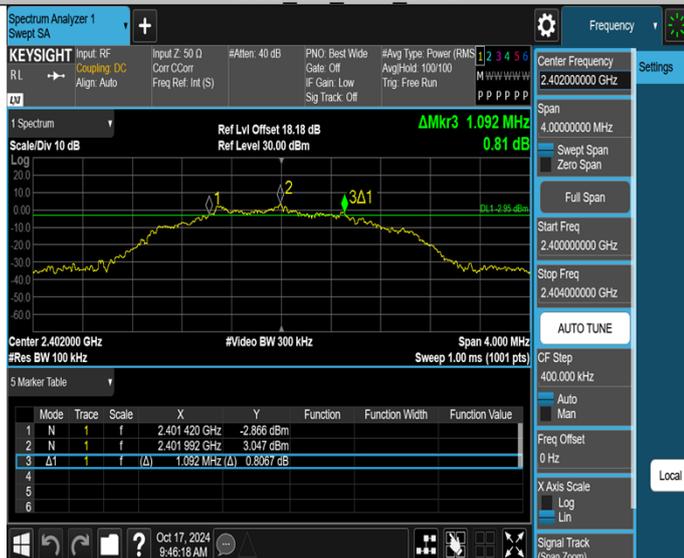
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.656	2401.640	2402.296	0.5	PASS
		2440	0.684	2439.656	2440.340	0.5	PASS
		2480	0.664	2479.672	2480.336	0.5	PASS
BLE_2M	Ant1	2402	1.092	2401.420	2402.512	0.5	PASS
		2440	1.184	2439.376	2440.560	0.5	PASS
		2480	1.164	2479.384	2480.548	0.5	PASS

Test Graphs



BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



Appendix A.3: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0295	2401.5024	2402.5319	---	PASS
		2440	1.0349	2439.4909	2440.5258	---	PASS
		2480	1.0401	2479.4871	2480.5272	---	PASS
BLE_2M	Ant1	2402	2.0580	2400.9960	2403.0540	---	PASS
		2440	2.0569	2438.9953	2441.0522	---	PASS
		2480	2.0753	2478.9881	2481.0634	---	PASS

Test Graphs



BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



Appendix A.4: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.93	-44.43	≤-17.07	PASS
		High	2480	0.93	-44.99	≤-19.07	PASS
BLE_2M	Ant1	Low	2402	3.22	-41.96	≤-16.78	PASS
		High	2480	0.75	-42.84	≤-19.25	PASS

Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402



BLE_2M_Ant1_High_2480



Appendix A.5: Test Results of Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.31	2.31	---	PASS
			30~1000	2.31	-41.72	≤-17.69	PASS
			1000~26500	2.31	-32.87	≤-17.69	PASS
		2440	Reference	3.22	3.22	---	PASS
			30~1000	3.22	-42.25	≤-16.78	PASS
			1000~26500	3.22	-32.68	≤-16.78	PASS
		2480	Reference	1.37	1.37	---	PASS
			30~1000	1.37	-42.06	≤-18.63	PASS
			1000~26500	1.37	-32.93	≤-18.63	PASS
BLE_2M	Ant1	2402	Reference	3.20	3.20	---	PASS
			30~1000	3.20	-41.81	≤-16.8	PASS
			1000~26500	3.20	-32.98	≤-16.8	PASS
		2440	Reference	2.69	2.69	---	PASS
			30~1000	2.69	-41.53	≤-17.31	PASS
			1000~26500	2.69	-32.45	≤-17.31	PASS
		2480	Reference	0.71	0.71	---	PASS
			30~1000	0.71	-41.69	≤-19.29	PASS
			1000~26500	0.71	-33.19	≤-19.29	PASS

Test Graphs

