

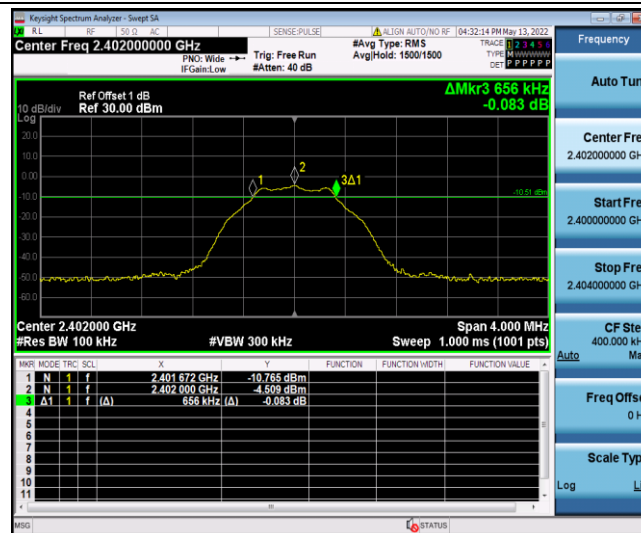
Annex for FCC BLE

Test Report No. :CTL2203279012-WF04

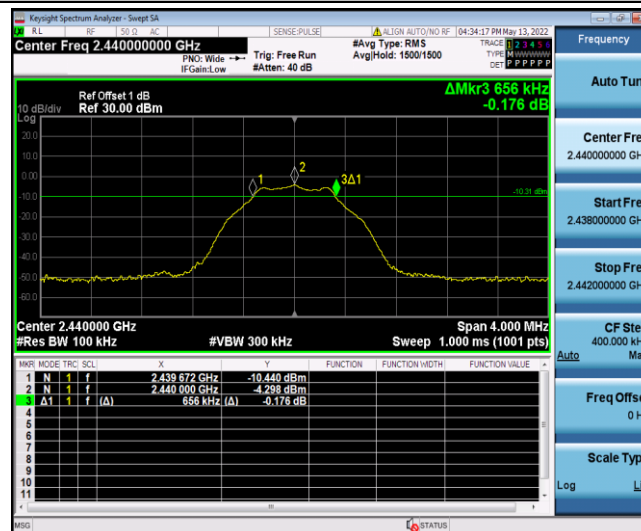
Appendix A: DTS Bandwidth**Test Result**

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT4.0	Ant1	2402	0.656	2401.672	2402.328	0.5	PASS
		2440	0.656	2439.672	2440.328	0.5	PASS
		2480	0.656	2479.672	2480.328	0.5	PASS
BLE_BT5.0	Ant1	2402	1.128	2401.448	2402.576	0.5	PASS
		2440	1.122	2439.448	2440.570	0.5	PASS
		2480	1.122	2479.448	2480.570	0.5	PASS

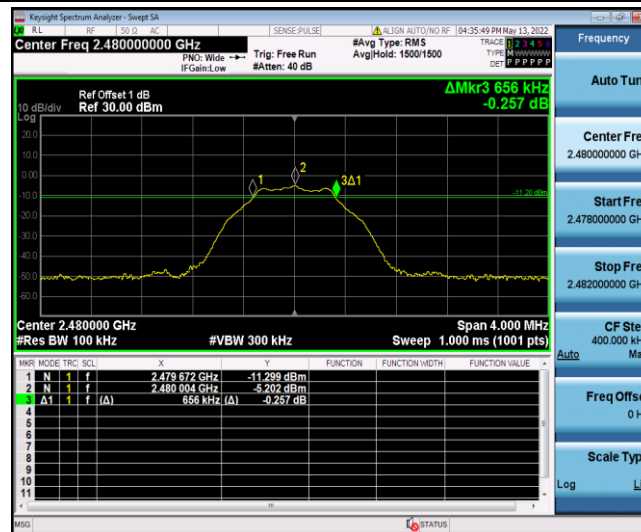
Test Graphs



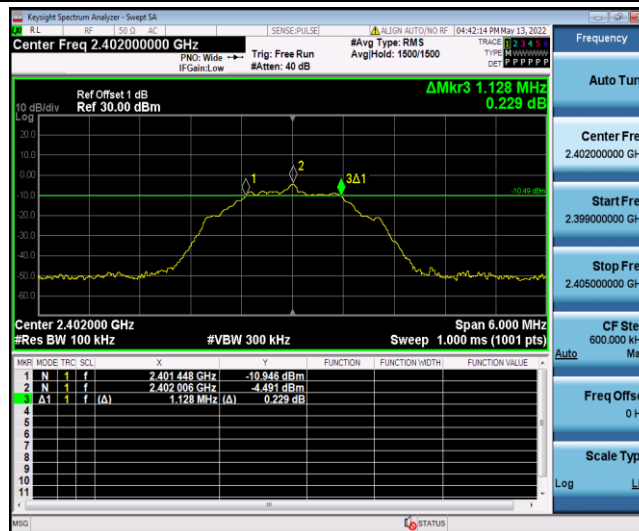
BLE_BT4.0_Ant1_2402



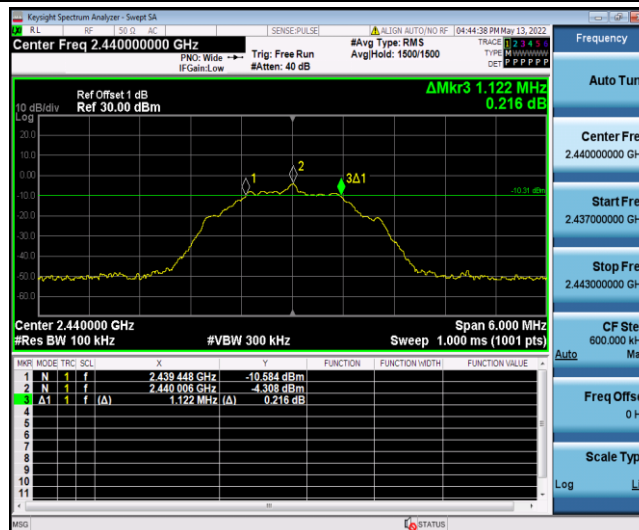
BLE_BT4.0_Ant1_2440



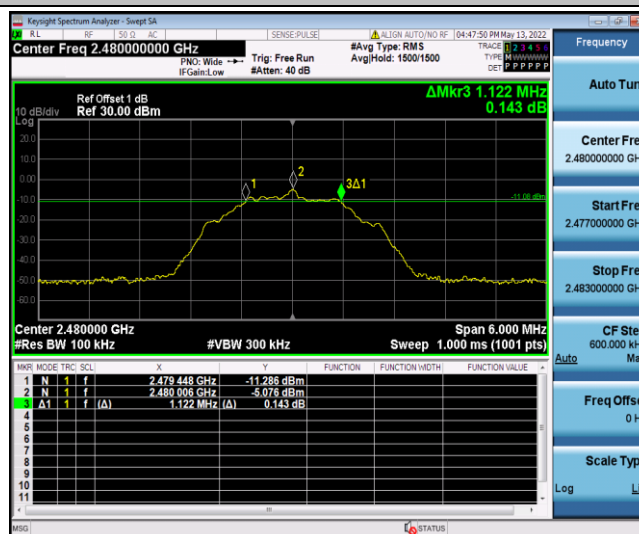
BLE_BT4.0_Ant1_2480



BLE BT5.0_Ant1_2402



BLE_BT5.0_Ant1_2440



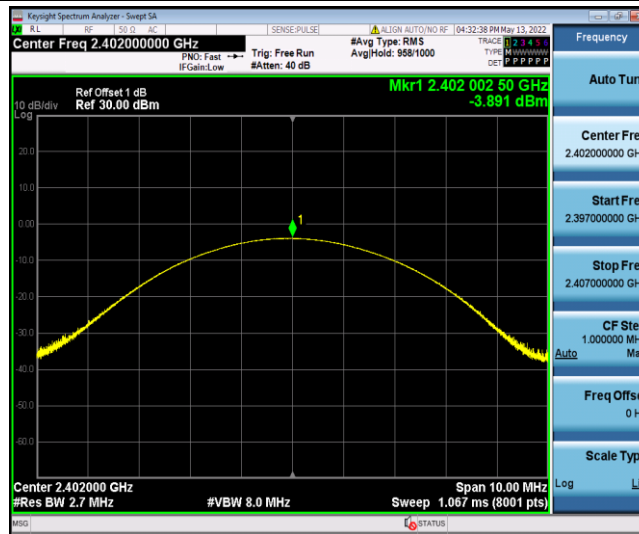
BLE BT5.0_Ant1_2480

Appendix B: Maximum conducted output power

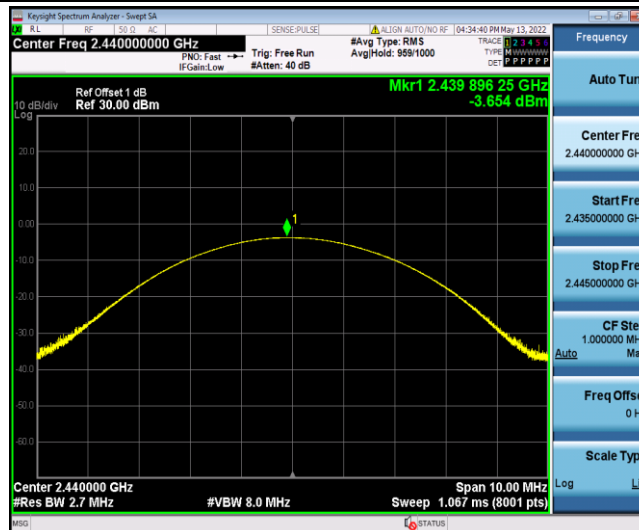
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	2402	-3.89	≤30	PASS
		2440	-3.65	≤30	PASS
		2480	-4.46	≤30	PASS
BLE_BT5.0	Ant1	2402	-3.91	≤30	PASS
		2440	-3.68	≤30	PASS
		2480	-4.47	≤30	PASS

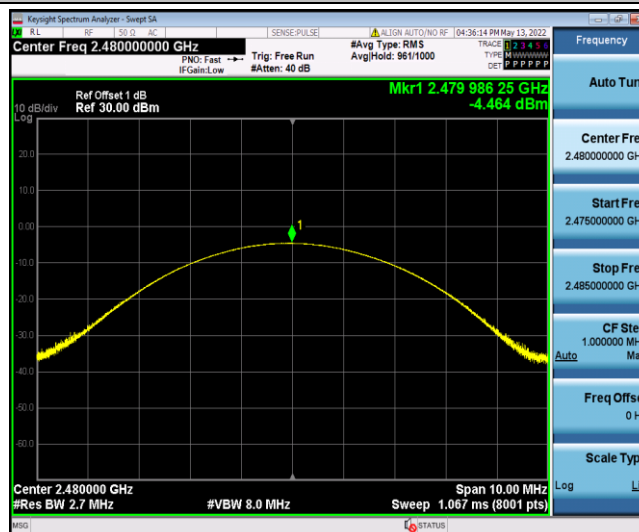
Test Graphs



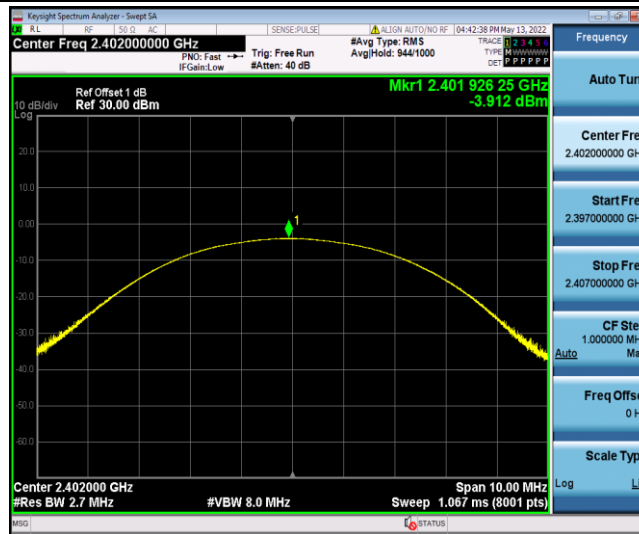
BLE_BT4.0_Ant1_2402



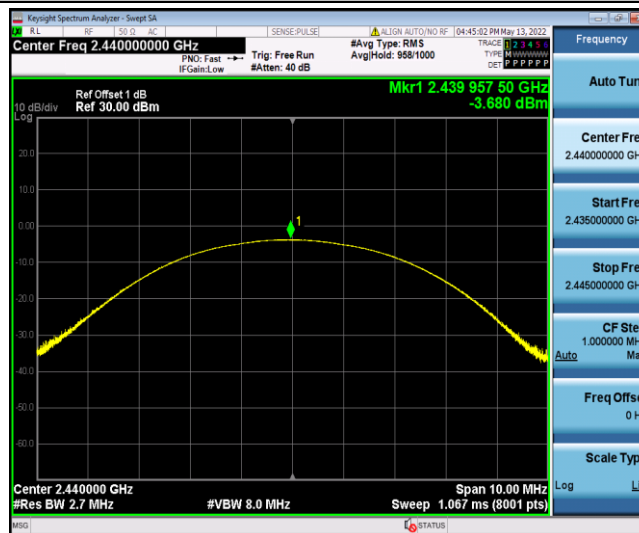
BLE_BT4.0_Ant1_2440



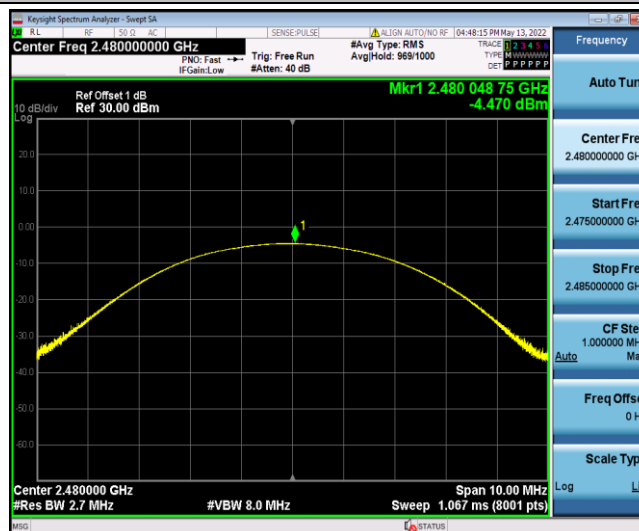
BLE_BT4.0_Ant1_2480



BLE_BT5.0_Ant1_2402



BLE_BT5.0_Ant1_2440



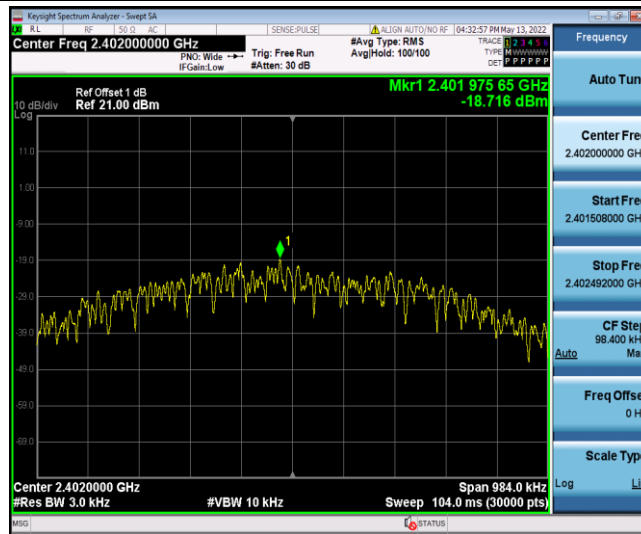
BLE_BT5.0_Ant1_2480

Appendix C: Maximum power spectral density

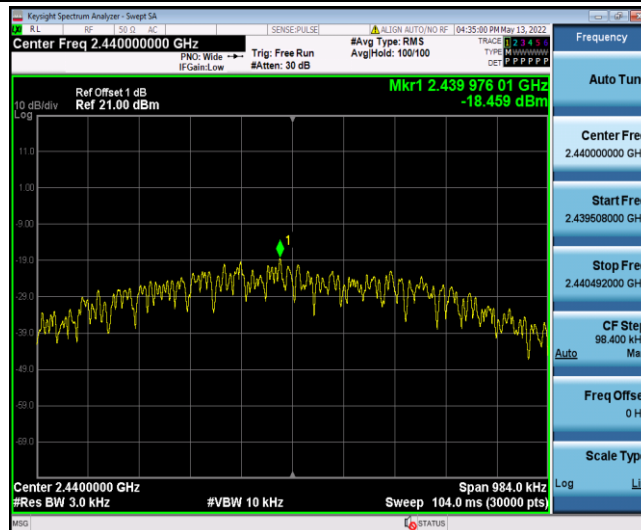
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_BT4.0	Ant1	2402	-18.72	≤8	PASS
		2440	-18.46	≤8	PASS
		2480	-19.36	≤8	PASS
BLE_BT5.0	Ant1	2402	-21.3	≤8	PASS
		2440	-21.1	≤8	PASS
		2480	-21.86	≤8	PASS

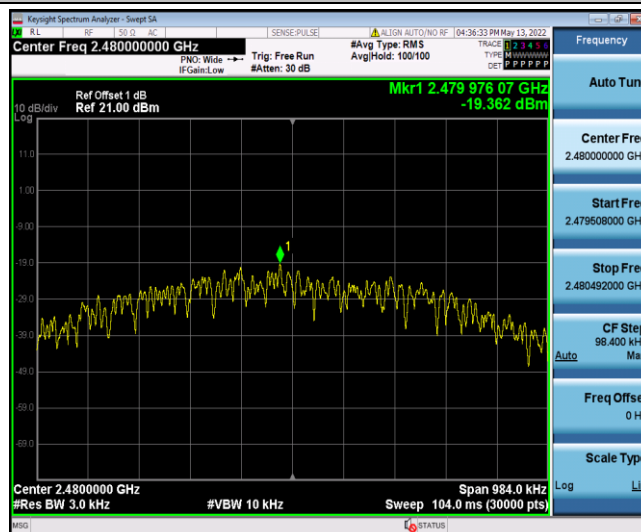
Test Graphs



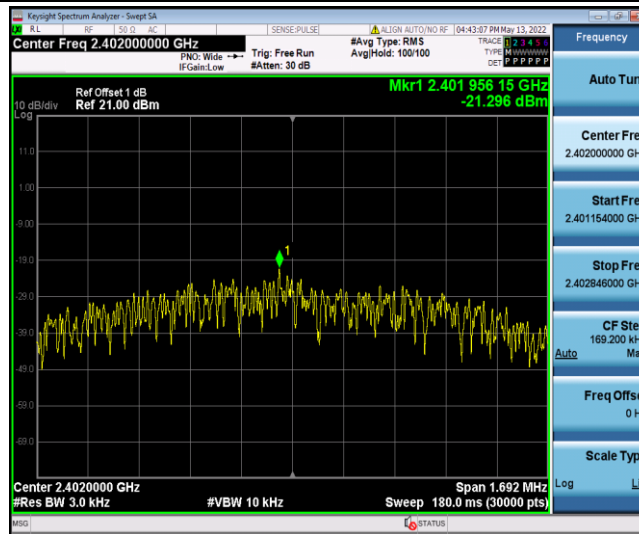
BLE_BT4.0_Ant1_2402



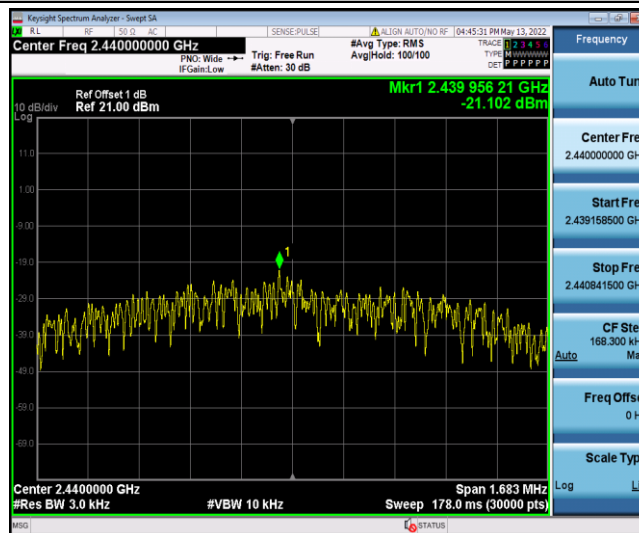
BLE_BT4.0_Ant1_2440



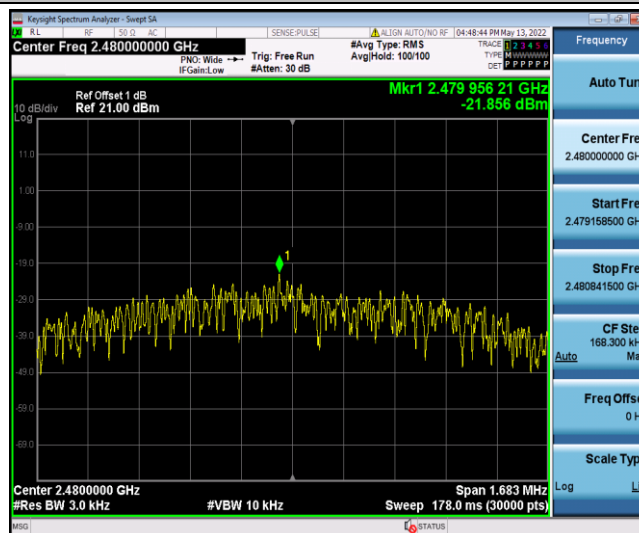
BLE_BT4.0_Ant1_2480



BLE_BT5.0_Ant1_2402



BLE_BT5.0_Ant1_2440



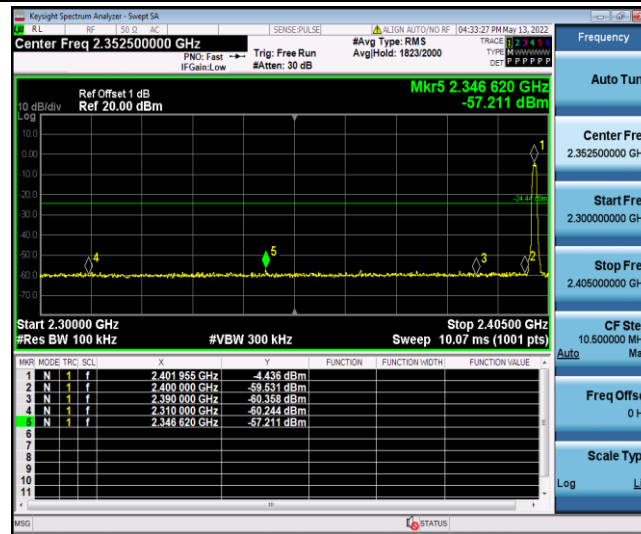
BLE_BT5.0_Ant1_2480

Appendix D: Band edge measurements

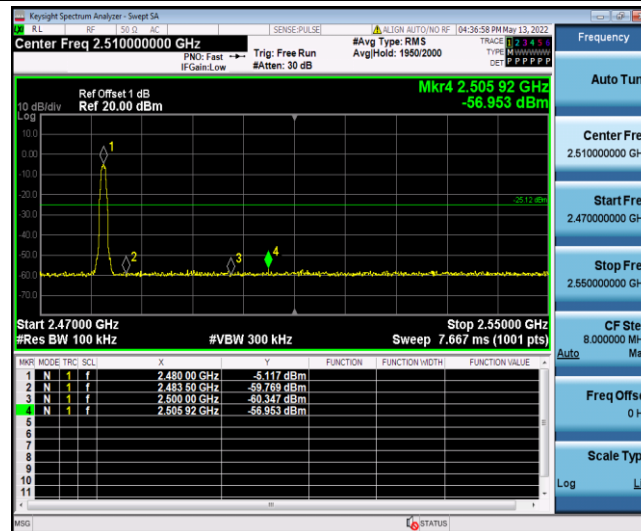
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	Low	2402	-4.44	-57.21	≤ -24.44	PASS
		High	2480	-5.12	-56.95	≤ -25.12	PASS
BLE_BT5.0	Ant1	Low	2402	-4.44	-50.91	≤ -24.44	PASS
		High	2480	-5.02	-56.82	≤ -25.02	PASS

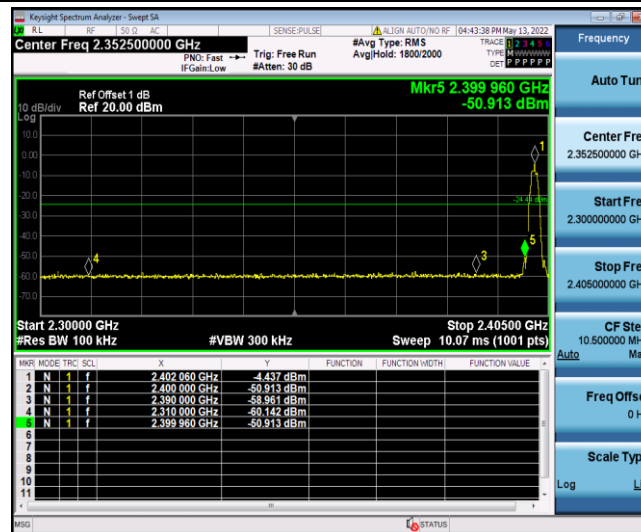
Test Graphs



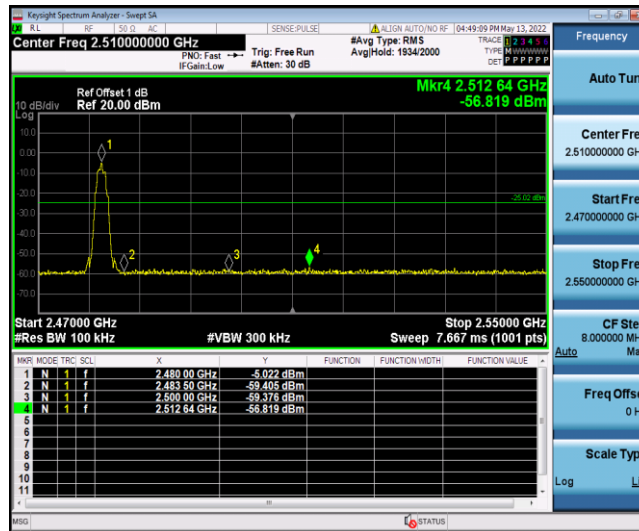
BLE_BT4.0_Ant1_Low_2402



BLE_BT4.0_Ant1_High_2480



BLE_BT5.0_Ant1_Low_2402



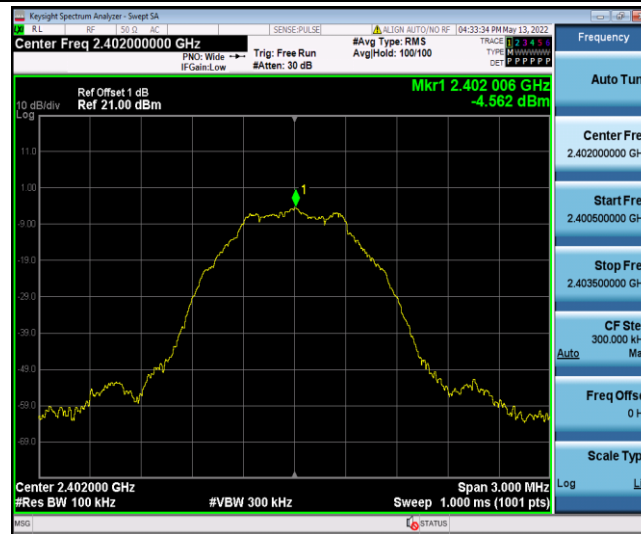
BLE_BT5.0_Ant1_High_2480

Appendix E: Conducted Spurious Emission

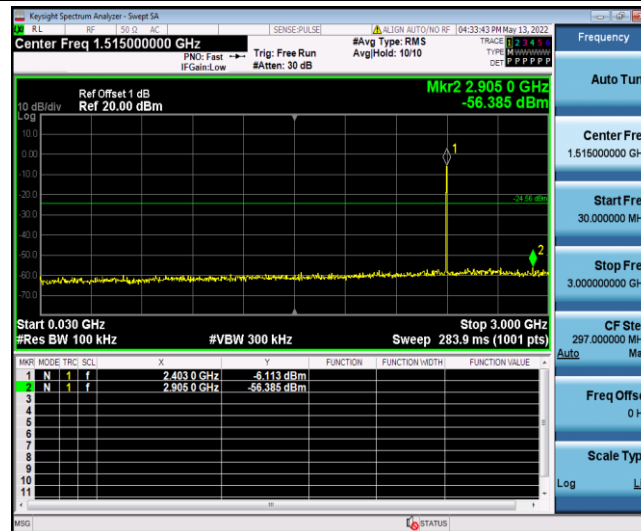
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	2402	Reference	-4.56	-4.56	---	PASS
			30~3000	-4.56	-56.39	≤ -24.56	PASS
			3000~26500	-4.56	-44.65	≤ -24.56	PASS
		2440	Reference	-4.44	-4.44	---	PASS
			30~3000	-4.44	-56.64	≤ -24.44	PASS
			3000~26500	-4.44	-45.12	≤ -24.44	PASS
		2480	Reference	-5.35	-5.35	---	PASS
			30~3000	-5.35	-56.2	≤ -25.35	PASS
			3000~26500	-5.35	-45.37	≤ -25.35	PASS
BLE_BT5.0	Ant1	2402	Reference	-4.53	-4.53	---	PASS
			30~3000	-4.53	-55.92	≤ -24.53	PASS
			3000~26500	-4.53	-44.98	≤ -24.53	PASS
		2440	Reference	-4.40	-4.40	---	PASS
			30~3000	-4.40	-56.22	≤ -24.4	PASS
			3000~26500	-4.40	-45.36	≤ -24.4	PASS
		2480	Reference	-5.08	-5.08	---	PASS
			30~3000	-5.08	-55.97	≤ -25.08	PASS
			3000~26500	-5.08	-45.6	≤ -25.08	PASS

Test Graphs



BLE_BT4.0_Ant1_2402_0~Reference



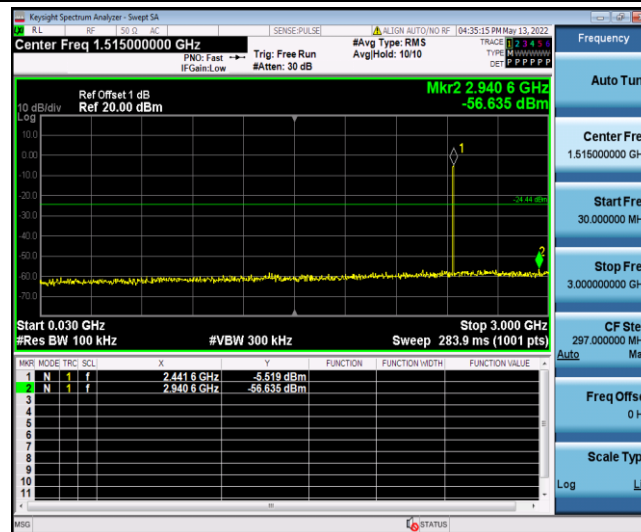
BLE_BT4.0_Ant1_2402_30~3000



BLE_BT4.0_Ant1_2402_3000~26500



BLE_BT4.0_Ant1_2440_0~Reference



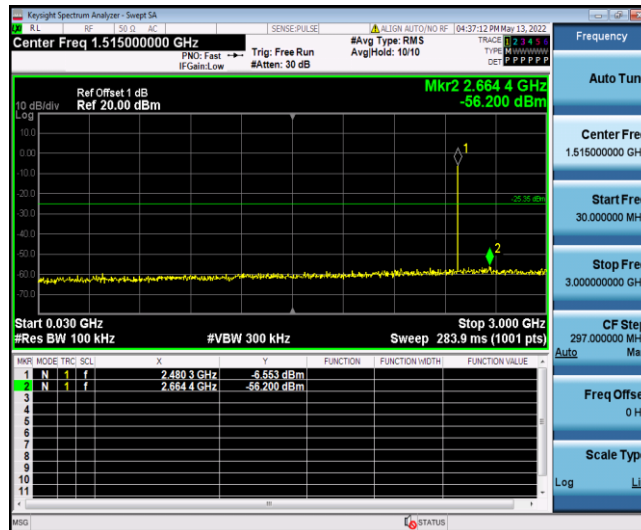
BLE_BT4.0_Ant1_2440_30~3000



BLE_BT4.0_Ant1_2440_3000~26500



BLE_BT4.0_Ant1_2480_0~Reference



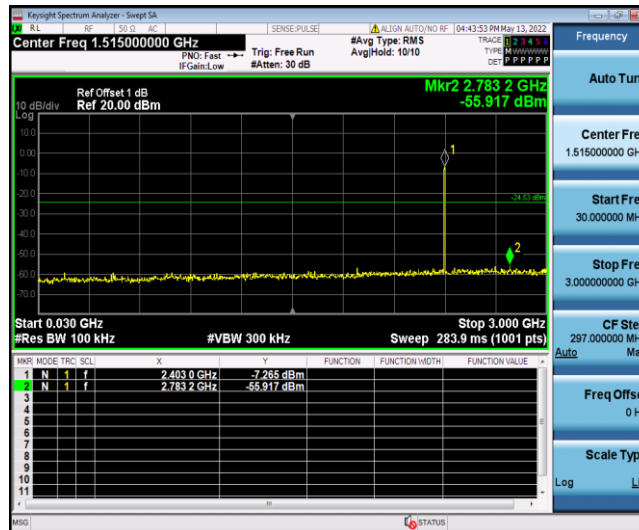
BLE_BT4.0_Ant1_2480_30~3000



BLE_BT4.0_Ant1_2480_3000~26500



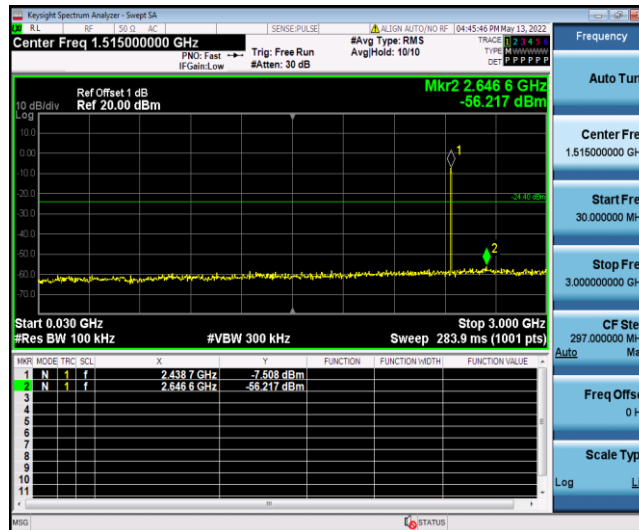
BLE_BT5.0_Ant1_2402_0~Reference



BLE_BT5.0_Ant1_2402_30~3000

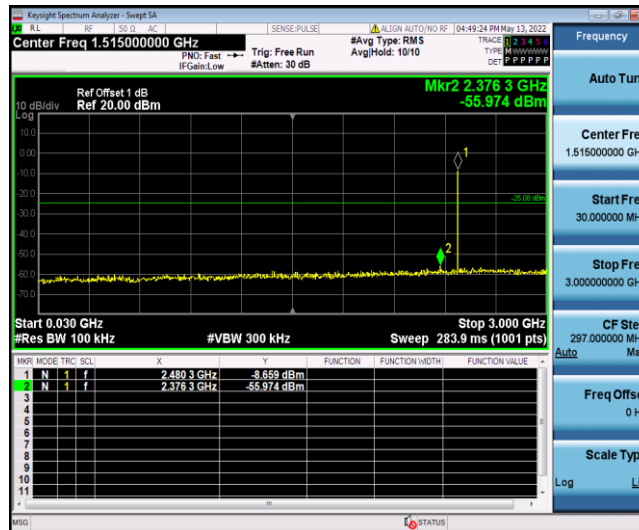


BLE_BT5.0_Ant1_2402_3000~26500





BLE_BT5.0_Ant1_2480_0~Reference



BLE_BT5.0_Ant1_2480_30~3000



BLE_BT5.0_Ant1_2480_3000~26500

***** End *****