Case No. : GTS20231206007-1-16	
Ambient Condition: 24 ℃, 48 %RH	
According Standard: ■Part15C	
Test Date: 2024.1.9	**Test Engineer:** Evan ouyang

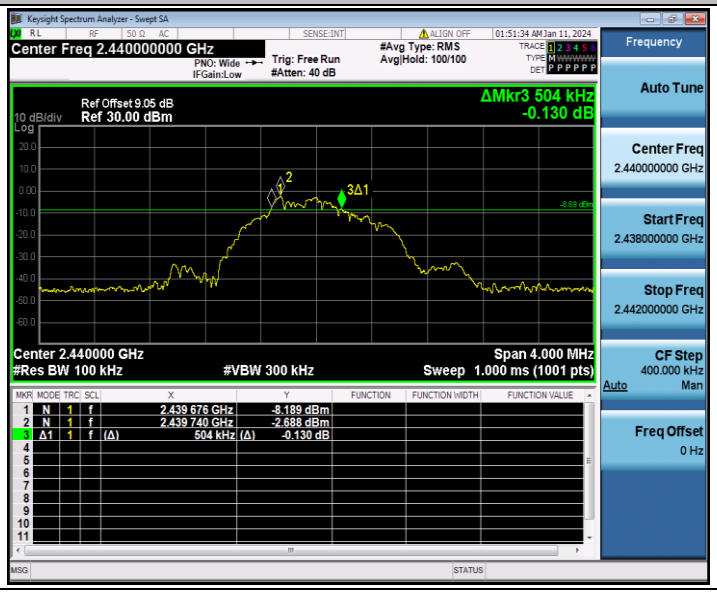
Appendix B.1: DTS Bandwidth

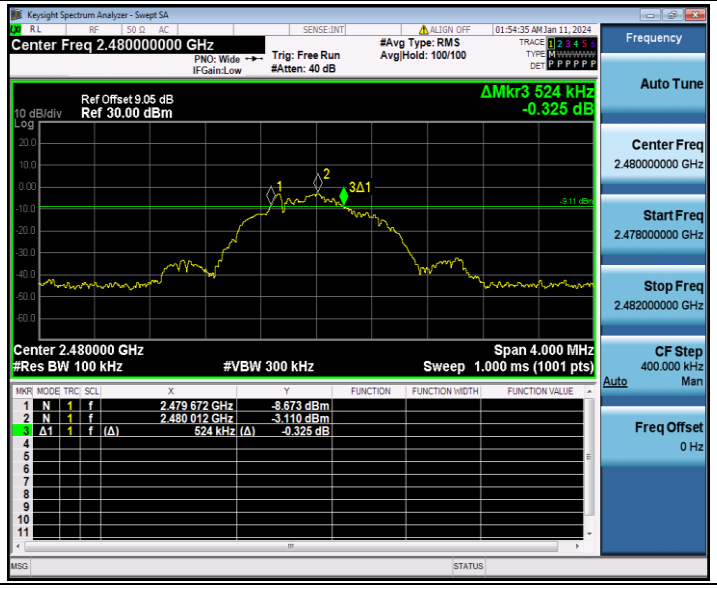
Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	0.506	2401.680	2402.186	0.5	PASS
		2440	0.504	2439.676	2440.180	0.5	PASS
		2480	0.524	2479.672	2480.196	0.5	PASS

Test Graphs

BLE_Ant1_2402

BLE_Ant1_2440


BLE_Ant1_2480


Appendix B.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0481	2401.4883	2402.5364	---	---
		2440	1.0482	2439.4949	2440.5431	---	---
		2480	1.0285	2479.4912	2480.5197	---	---

Test Graphs

BLE_Ant1_2402

BLE_Ant1_2440

BLE_Ant1_2480


Appendix B.3: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant1	2402	-4.09	≤30	PASS
		2440	-2.04	≤30	PASS
		2480	-2.03	≤30	PASS

Note：

1. The Duty Cycle Factor and RBW Factor is compensated in the graph.

Appendix B.4: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-23.26	≤8.00	PASS
		2440	-21.19	≤8.00	PASS
		2480	-21.14	≤8.00	PASS

Note：

1. The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

BLE_Ant1_2402

BLE_Ant1_2440

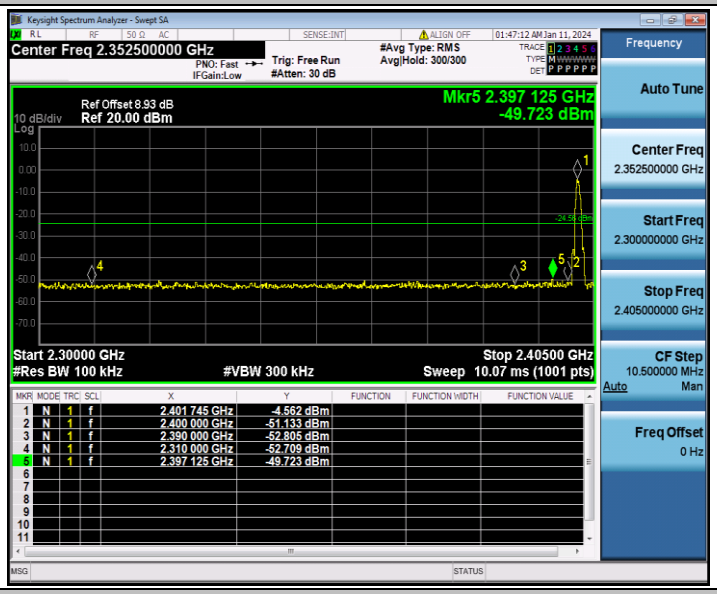
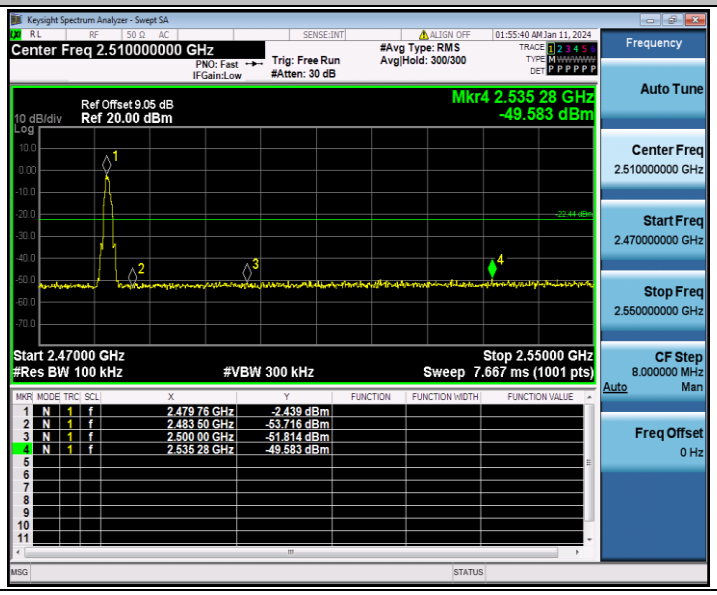

BLE_Ant1_2480


Appendix B.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	-4.56	-49.72	≤-24.56	PASS
		High	2480	-2.44	-49.58	≤-22.44	PASS

Test Graphs

BLE_Ant1_Low_2402

BLE_Ant1_High_2480


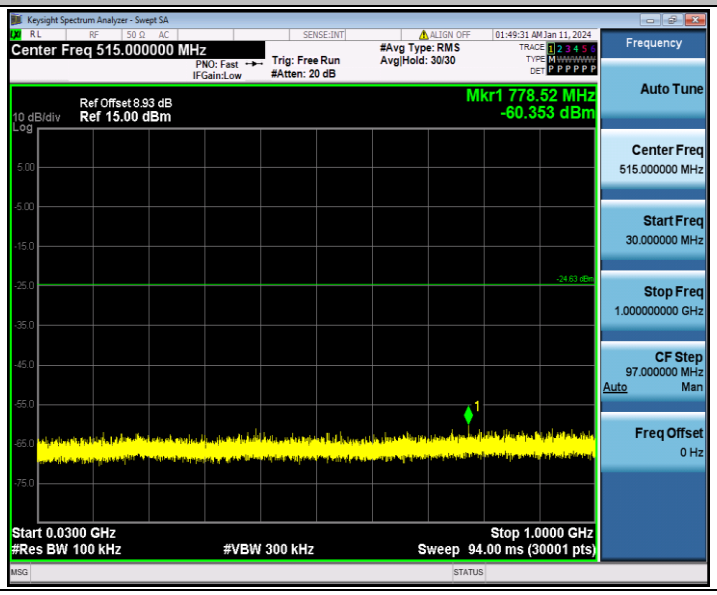
Appendix B.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	-4.63	-4.63	---	PASS
			30~1000	-4.63	-60.35	≤-24.63	PASS
			1000~26500	-4.63	-48.17	≤-24.63	PASS
		2440	Reference	-2.62	-2.62	---	PASS
			30~1000	-2.62	-60.52	≤-22.62	PASS
			1000~26500	-2.62	-47.78	≤-22.62	PASS
		2480	Reference	-2.57	-2.57	---	PASS
			30~1000	-2.57	-60.69	≤-22.57	PASS
			1000~26500	-2.57	-47.67	≤-22.57	PASS

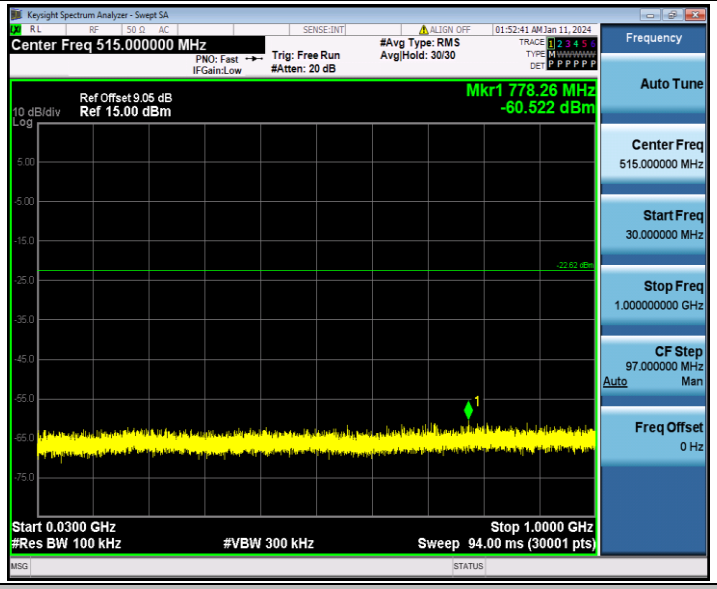
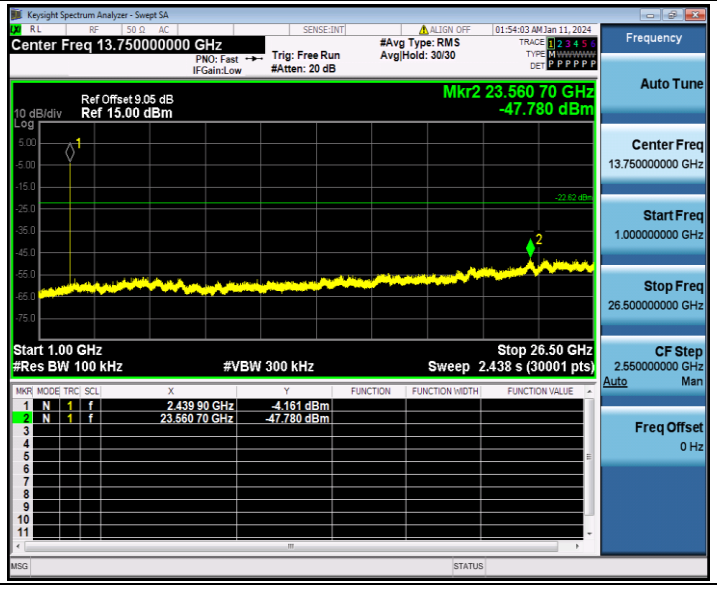
Test Graphs

BLE_Ant1_2402_0~Reference

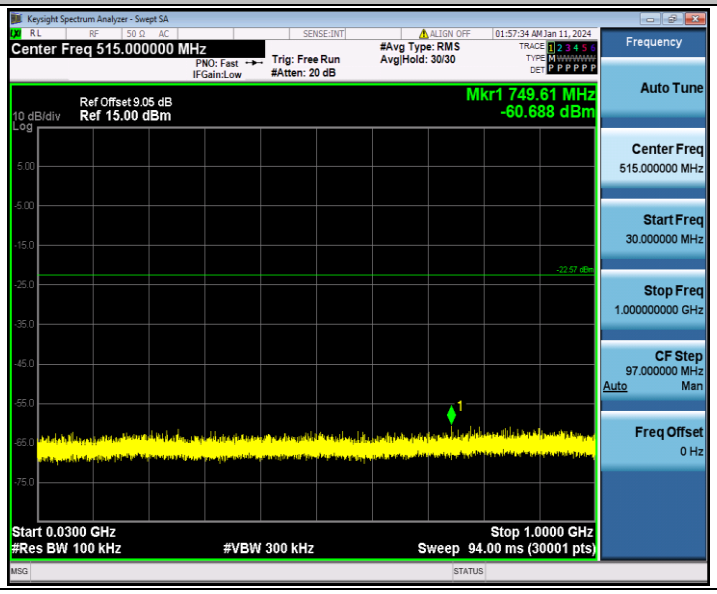
BLE_Ant1_2402_30~1000


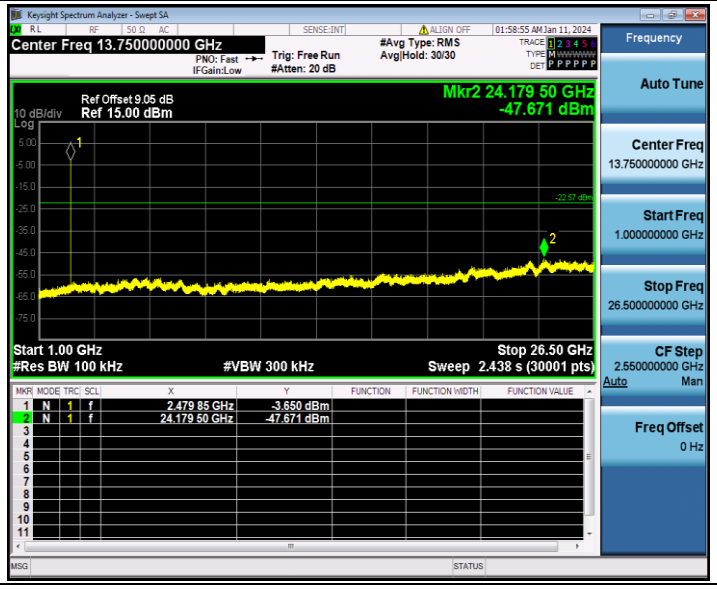
BLE_Ant1_2402_1000~26500

BLE_Ant1_2440_0~Reference


BLE_Ant1_2440_30~1000

BLE_Ant1_2440_1000~26500


BLE_Ant1_2480_0~Reference

BLE_Ant1_2480_30~1000


BLE_Ant1_2480_1000~26500


Appendix B.7: Emissions in Restricted Bands

Test Result

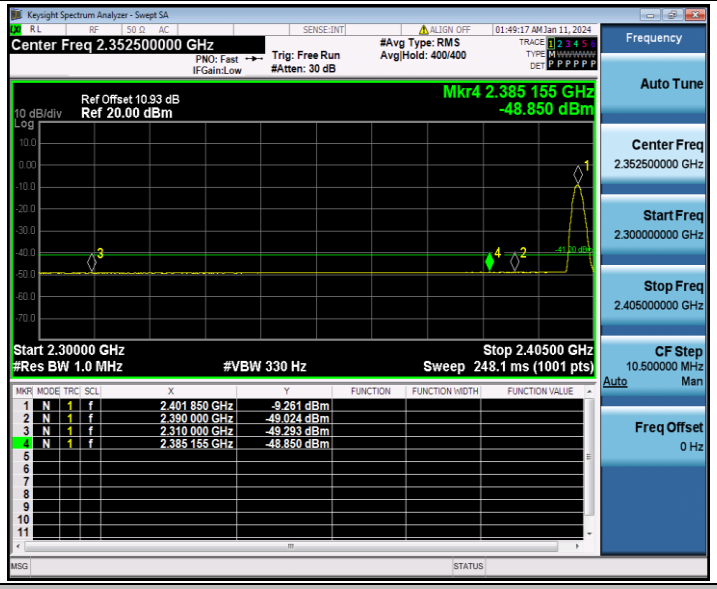
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant1	Low	2402	AV	2310.000	-49.29	≤-41.20	45.91	≤54	PASS
				AV	2385.155	-48.85	≤-41.20	46.35	≤54	PASS
				AV	2390.000	-49.02	≤-41.20	46.18	≤54	PASS
				Peak	2310.000	-39.53	≤-21.20	55.67	≤74	PASS
				Peak	2353.235	-39.06	≤-21.20	56.14	≤74	PASS
				Peak	2390.000	-41.45	≤-21.20	53.75	≤74	PASS
		High	2480	AV	2483.500	-48.85	≤-41.20	46.35	≤54	PASS
				AV	2496.880	-48.55	≤-41.20	46.65	≤54	PASS
				AV	2500.000	-48.6	≤-41.20	46.60	≤54	PASS
				Peak	2483.500	-40.83	≤-21.20	54.37	≤74	PASS
				Peak	2499.680	-38.59	≤-21.20	56.61	≤74	PASS
				Peak	2500.000	-40.18	≤-21.20	55.02	≤74	PASS

Note：

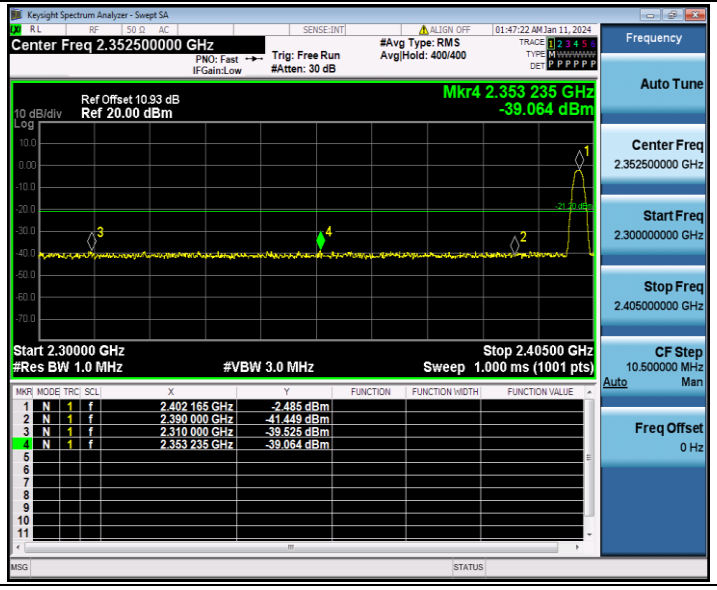
2. The Antenna Gain is compensated in the graph.
3. The Duty Cycle Factor and RBW Factor is compensated in the graph.
4. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

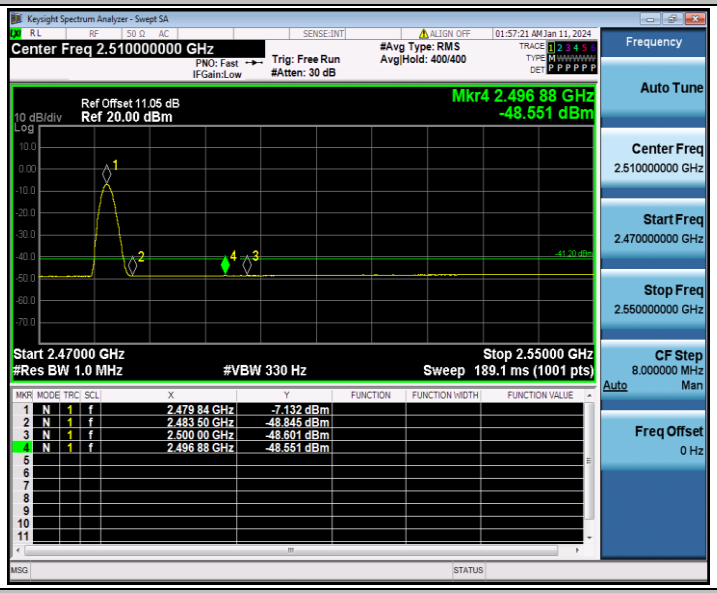
Test Graphs

BLE_Ant1_Low_2402_AV



BLE_Ant1_Low_2402_Peak



BLE_Ant1_High_2480_AV

BLE_Ant1_High_2480_Peak