

Case No. : <u>GTS20251121009-2-01</u>	
Ambient Condition: <u>23</u> °C, <u>46</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.11.26</u>	Test Engineer: <u>Evan ouyang</u>

Appendix A.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT5.0	Ant1	2402	0.672	2401.668	2402.340	0.5	PASS
		2440	0.656	2439.676	2440.332	0.5	PASS
		2480	0.664	2479.672	2480.336	0.5	PASS

Test Graphs

BLE_BT5.0_Ant1_2402



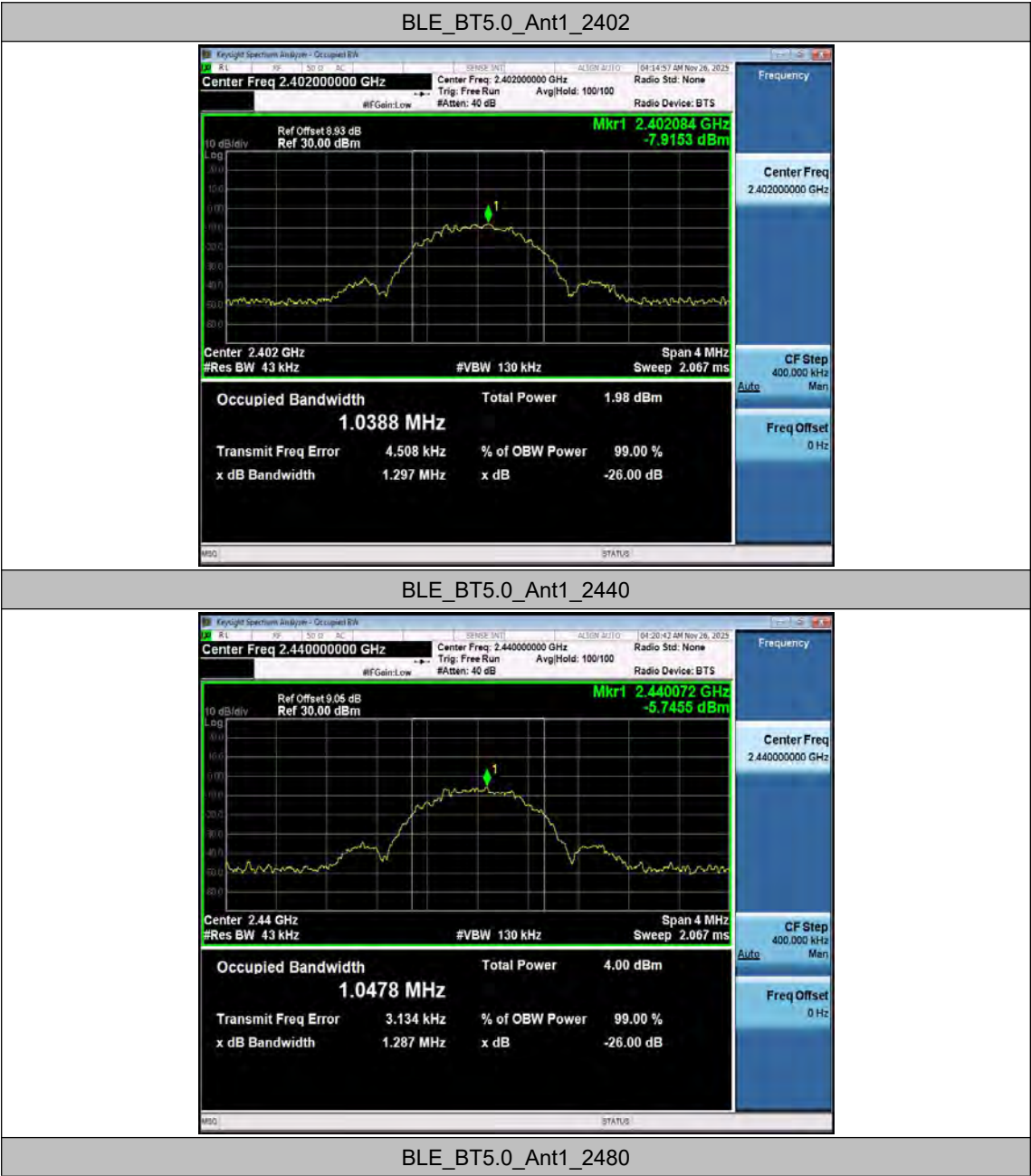


Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT5.0	Ant1	2402	1.0388	2401.4851	2402.5239	---	---
		2440	1.0478	2439.4792	2440.5270	---	---
		2480	1.0451	2479.4824	2480.5275	---	---

Test Graphs





Appendix A.3: Maximum conducted output power

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_BT5.0	Ant1	2402	-3.25	≤30	PASS
		2440	-1.16	≤30	PASS
		2480	-1.21	≤30	PASS

Appendix A.4: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_BT5.0	Ant1	2402	-20.84	≤8.00	PASS
		2440	-18.71	≤8.00	PASS
		2480	-18.65	≤8.00	PASS

Note:

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

Test Graphs

BLE_BT5.0_Ant1_2402



BLE_BT5.0_Ant1_2440



BLE_BT5.0_Ant1_2480



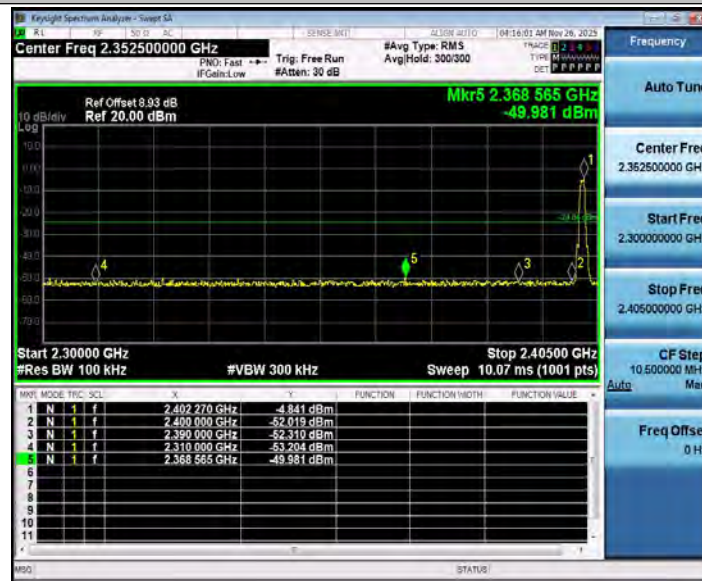
Appendix A.5: Band edge measurements

Test Result

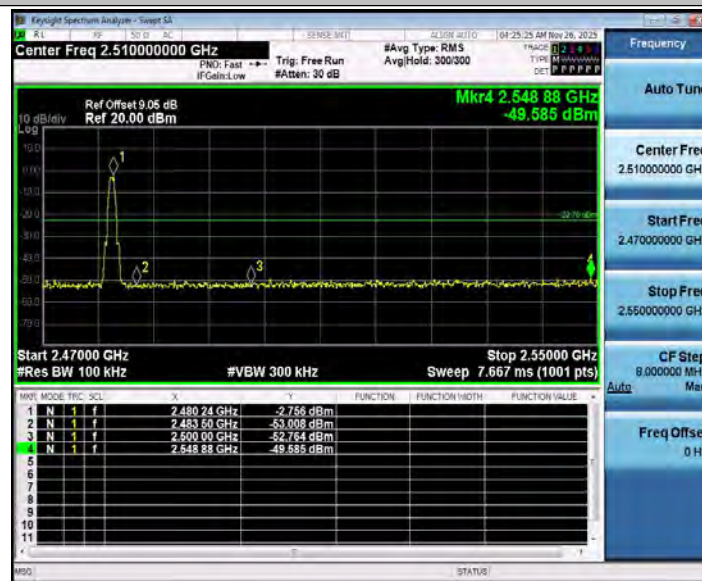
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT5.0	Ant1	Low	2402	-4.84	-49.98	≤ -24.84	PASS
		High	2480	-2.76	-49.59	≤ -22.76	PASS

Test Graphs

BLE_BT5.0_Ant1_Low_2402



BLE_BT5.0_Ant1_High_2480



Appendix A.6: Conducted Spurious Emission

Test Result

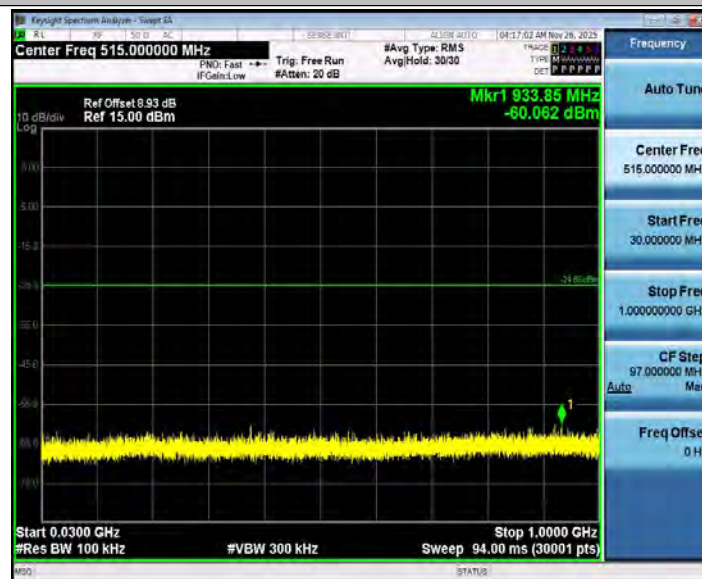
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT5.0	Ant1	2402	Reference	-4.86	-4.86	---	PASS
			30~1000	-4.86	-60.06	≤-24.86	PASS
			1000~26500	-4.86	-47.2	≤-24.86	PASS
		2440	Reference	-2.63	-2.63	---	PASS
			30~1000	-2.63	-60.73	≤-22.63	PASS
			1000~26500	-2.63	-46.78	≤-22.63	PASS
		2480	Reference	-2.73	-2.73	---	PASS
			30~1000	-2.73	-60.81	≤-22.73	PASS
			1000~26500	-2.73	-47.51	≤-22.73	PASS

Test Graphs

BLE_BT5.0_Ant1_2402_0~Reference



BLE_BT5.0_Ant1_2402_30~1000



BLE_BT5.0_Ant1_2402_1000~26500



BLE_BT5.0_Ant1_2440_0~Reference



BLE_BT5.0_Ant1_2440_30~1000



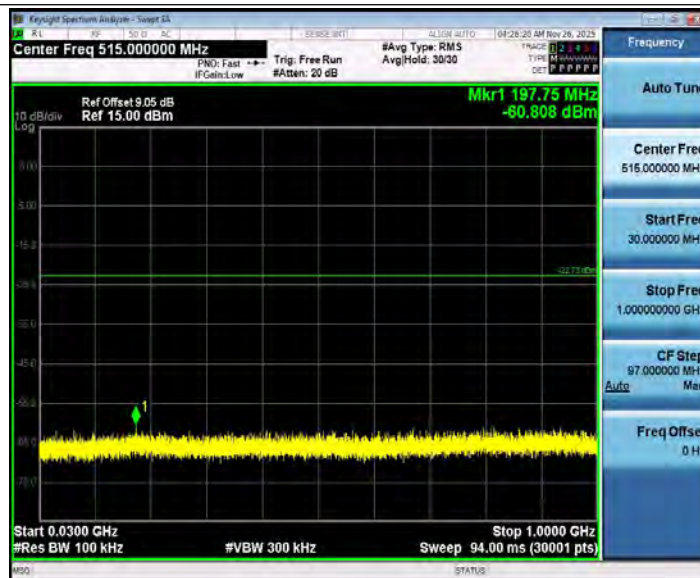
BLE_BT5.0_Ant1_2440_1000~26500



BLE_BT5.0_Ant1_2480_0~Reference



BLE_BT5.0_Ant1_2480_30~1000



BLE_BT5.0_Ant1_2480_1000~26500



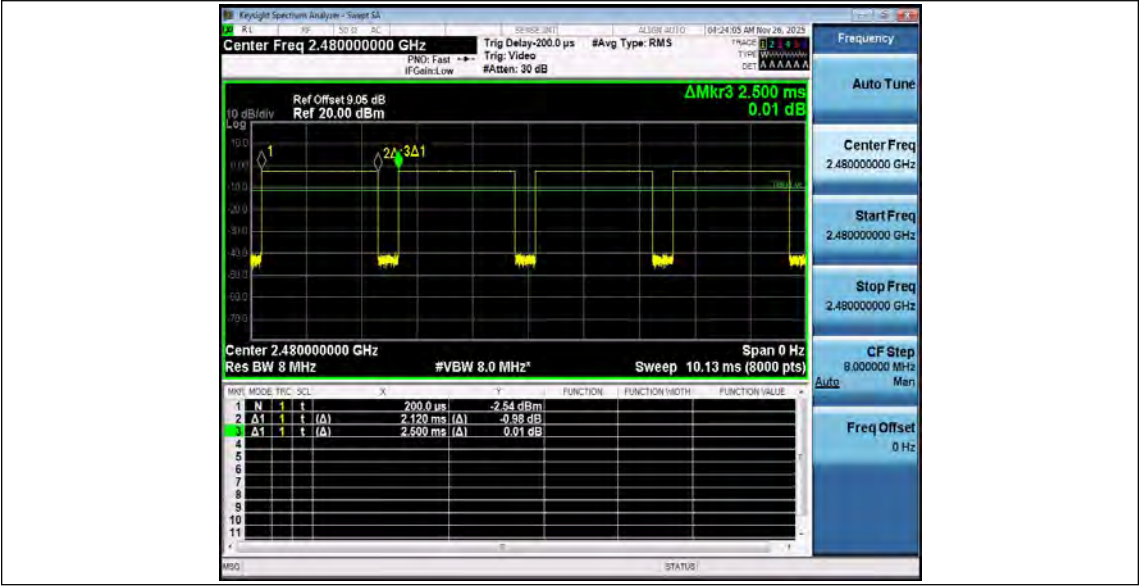
Appendix A.7: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
BLE_BT5.0	Ant1	2402	2.13	2.50	0.8520	85.20	0.70	0.47
		2440	2.13	2.50	0.8520	85.20	0.70	0.47
		2480	2.12	2.50	0.8480	84.80	0.72	0.47

Test Graphs





Appendix A.8: 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_BT5.0	Ant1	Low	2402	AV	2310.000	-49.28	≤-41.20	45.92	≤54	PASS
				AV	2388.830	-48.76	≤-41.20	46.44	≤54	PASS
				AV	2390.000	-48.9	≤-41.20	46.30	≤54	PASS
				Peak	2310.000	-41.44	≤-21.20	53.76	≤74	PASS
				Peak	2314.490	-39.16	≤-21.20	56.04	≤74	PASS
				Peak	2390.000	-40.6	≤-21.20	54.60	≤74	PASS
		High	2480	AV	2483.500	-48.53	≤-41.20	46.67	≤54	PASS
				AV	2499.600	-48.42	≤-41.20	46.78	≤54	PASS
				AV	2500.000	-48.6	≤-41.20	46.60	≤54	PASS
				Peak	2483.500	-43.01	≤-21.20	52.19	≤74	PASS
				Peak	2490.720	-39.2	≤-21.20	56.00	≤74	PASS
				Peak	2500.000	-42.39	≤-21.20	52.81	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. 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_BT5.0_Ant1_Low_2402_AV



BLE_BT5.0_Ant1_Low_2402_Peak



BLE_BT5.0_Ant1_High_2480_AV



BLE_BT5.0_Ant1_High_2480_Peak

