

Case No. : <u>GTS20250410010-1-02</u>	
Ambient Condition: <u>22</u> °C, <u>52</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.5.16</u>	Test Engineer: <u>Evan ouyang</u>

Appendix B.1: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant2	2402	0.684	2401.664	2402.348	0.5	PASS
		2440	0.676	2439.660	2440.336	0.5	PASS
		2480	0.668	2479.660	2480.328	0.5	PASS

Test Graphs



Appendix B.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant2	2402	1.0403	2401.4889	2402.5292	---	---
		2440	1.0484	2439.4872	2440.5356	---	---
		2480	1.0449	2479.4862	2480.5311	---	---

Test Graphs





Appendix B.3: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE	Ant2	2402	4.65	≤30	PASS
		2440	5.53	≤30	PASS
		2480	5.71	≤30	PASS

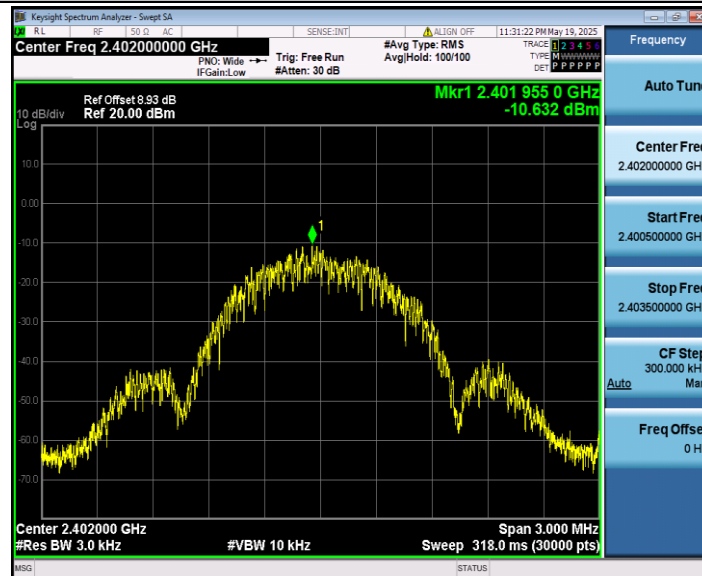
Appendix B.4: Maximum power spectral density

Test Result

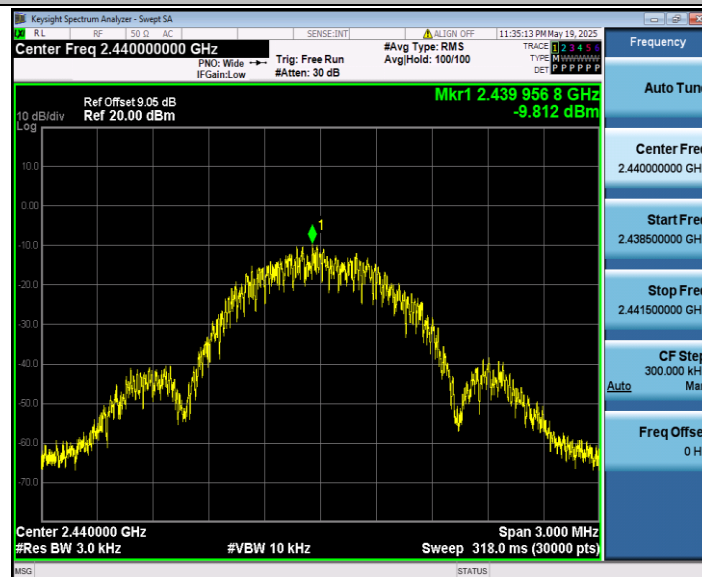
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant2	2402	-10.63	≤8.00	PASS
		2440	-9.81	≤8.00	PASS
		2480	-10.00	≤8.00	PASS

Test Graphs

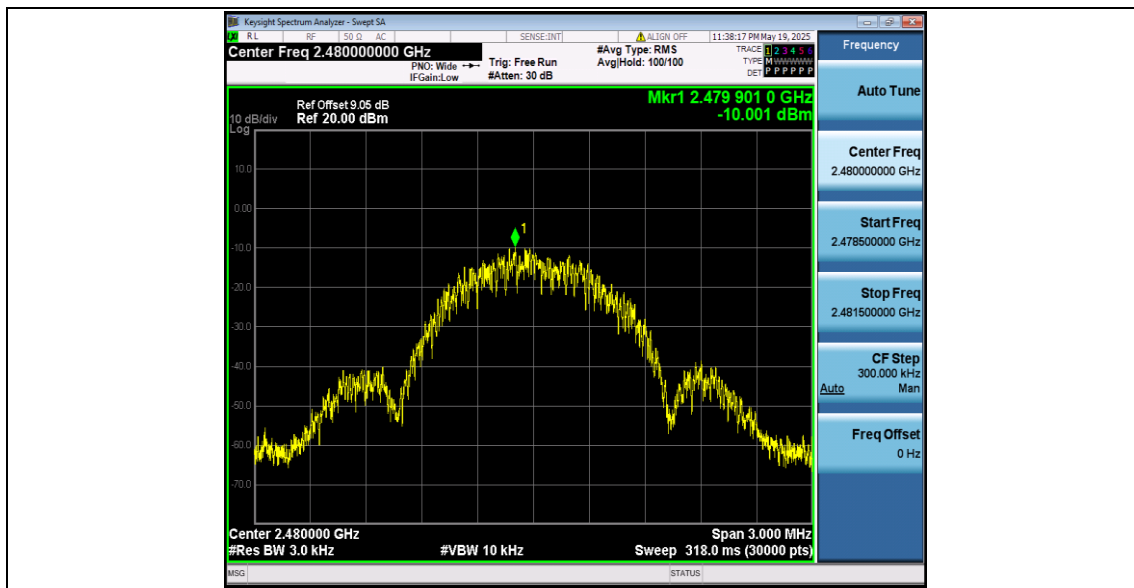
BLE_Ant2_2402



BLE_Ant2_2440



BLE_Ant2_2480

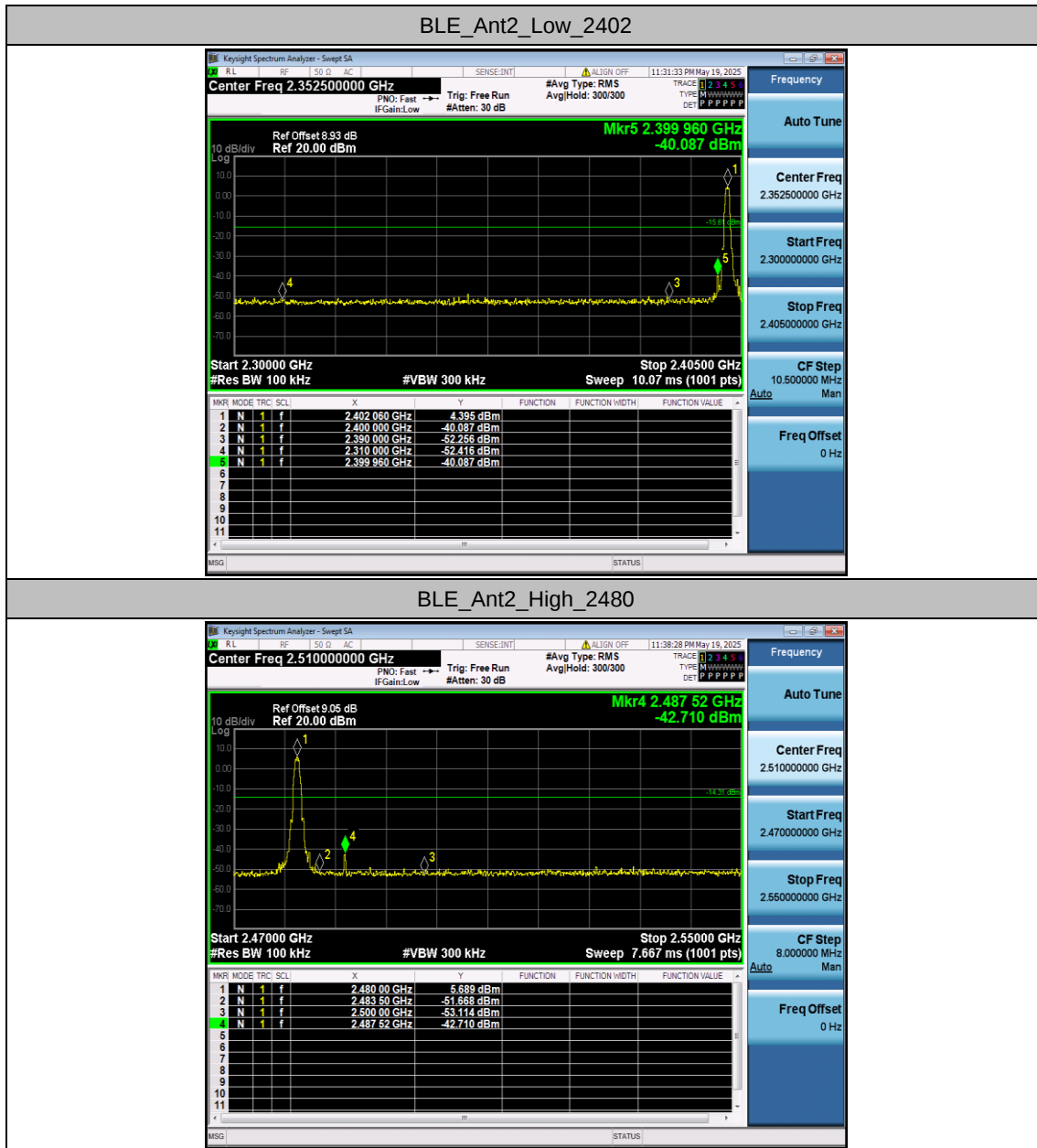


Appendix B.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant2	Low	2402	4.40	-40.09	≤-15.61	PASS
		High	2480	5.69	-42.71	≤-14.31	PASS

Test Graphs

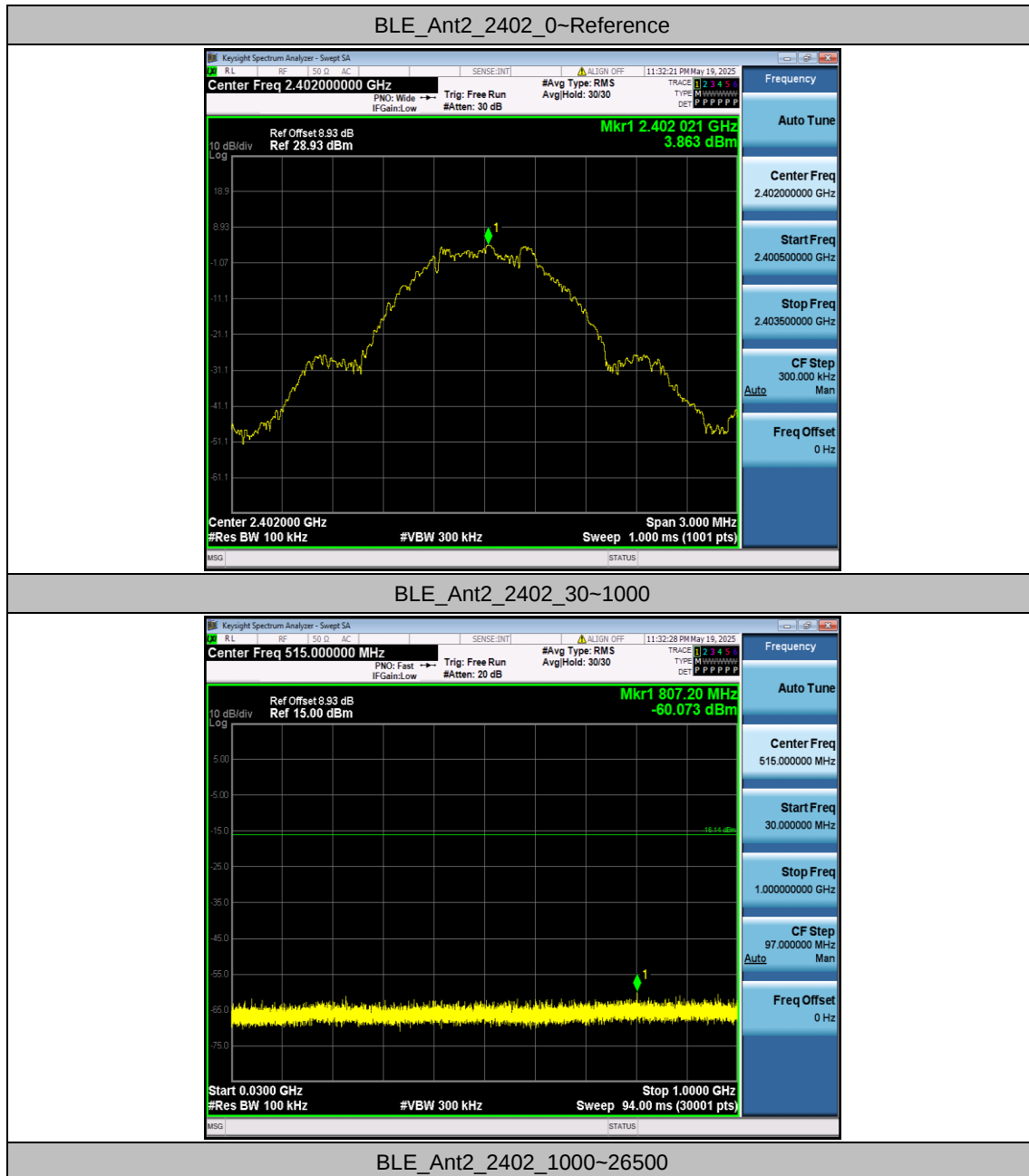


Appendix B.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant2	2402	Reference	3.86	3.86	---	PASS
			30~1000	3.86	-60.07	≤ -16.14	PASS
			1000~26500	3.86	-47.53	≤ -16.14	PASS
		2440	Reference	4.87	4.87	---	PASS
			30~1000	4.87	-59.71	≤ -15.13	PASS
			1000~26500	4.87	-46.19	≤ -15.13	PASS
		2480	Reference	5.46	5.46	---	PASS
			30~1000	5.46	-60.1	≤ -14.54	PASS
			1000~26500	5.46	-47.78	≤ -14.54	PASS

Test Graphs



Keysight Spectrum Analyzer - Swept SA

R.F. 50.0 AC SENSE INT ALIGN OFF 11:35:19 PM May 19, 2025

Center Freq 2.44000000 GHz

Trig: Free Run #Att: 30 dB #Avg Type: RMS Avg/Hold: 30/30

TRACE 1 2 3 4 5
TYPE M W W W W W W W
DET P P P P P P P

Ref Offset 9.05 dB
Ref 29.05 dBm

**Mkr1 2.439 988 GHz
4.874 dBm**

10 dB/div
Log

Center 2.440000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 3.000 MHz
Sweep 1.000 ms (1001 pts)

Frequency

Auto Tune

Center Freq
2.44000000 GHz

Start Freq
2.43850000 GHz

Stop Freq
2.44150000 GHz

CF Step
300.000 kHz
Auto Man

Freq Offset
0 Hz

Keysight Spectrum Analyzer - Swept SA

R.L. 50.0 AC SENSE INT ALIGN OFF 11:35:26 PM May 19, 2025

Center Freq 515.000000 MHz

Trig: Free Run #Att: 20 dB

#Avg Type: RMS AvgHold: 30/30

TRACE 1 2 3 4 5

TYPE M WAAAAAA

DET P P P P P

Ref Offset 9.05 dB

Ref 15.00 dBm

Mkr1 787.96 MHz

-59.711 dBm

10 dB/div

Log

5.00

-5.00

-15.00

-25.00

-35.00

-45.00

-55.00

-65.00

-75.00

-15.13 dBm

Start 0.0300 GHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 1.0000 GHz

Sweep 94.00 ms (30001 pts)

Frequency

Auto Tune

Center Freq 515.000000 MHz

Start Freq 30.000000 MHz

Stop Freq 1.00000000 GHz

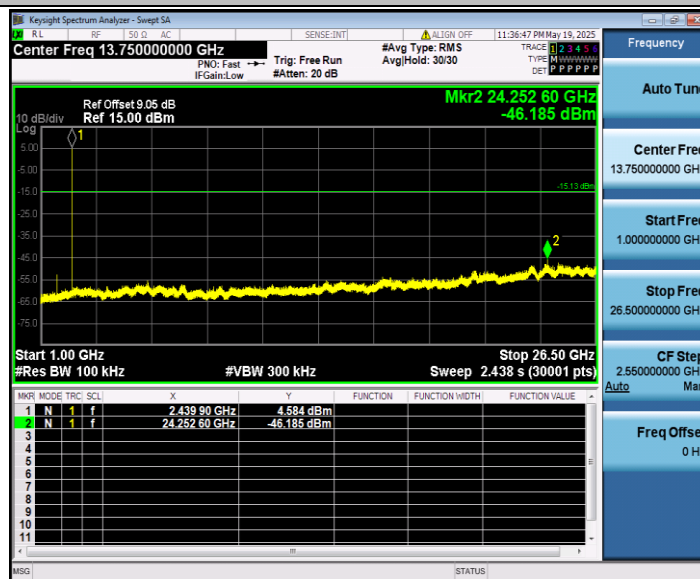
CF Step 97.000000 MHz

Auto Man

Freq Offset 0 Hz

MSG STATUS

BLE_Ant2_2440_1000~26500



BLE_Ant2_2480_0~Reference



BLE_Ant2_2480_30~1000

