

Case No. : <u>GTS20250827007-1-02</u>	
Ambient Condition: <u>22</u> °C, <u>56</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.9.3-2025.9.9</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	Ant1	2402	0.668	2401.652	2402.320	0.5	PASS
		2440	0.684	2439.640	2440.324	0.5	PASS
		2480	0.660	2479.664	2480.324	0.5	PASS

Test Graphs



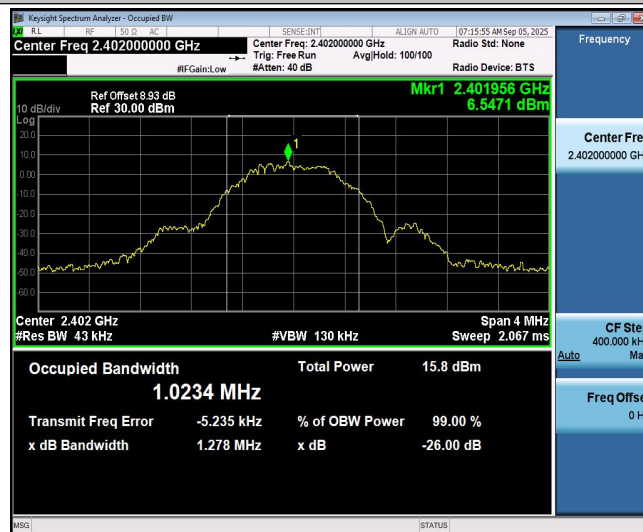
Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant1	2402	1.0234	2401.4831	2402.5065	---	---
		2440	1.0201	2439.4803	2440.5004	---	---
		2480	1.0324	2479.4822	2480.5146	---	---

Test Graphs

BLE_Ant1_2402



BLE_Ant1_2440



BLE_Ant1_2480



Appendix A.3: Maximum output power

Test Result

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Gain[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE	Ant1	2402	10.97	2.65	13.62	≤36	PASS
		2440	11.27	2.65	13.92	≤36	PASS
		2480	11.12	2.65	13.77	≤36	PASS

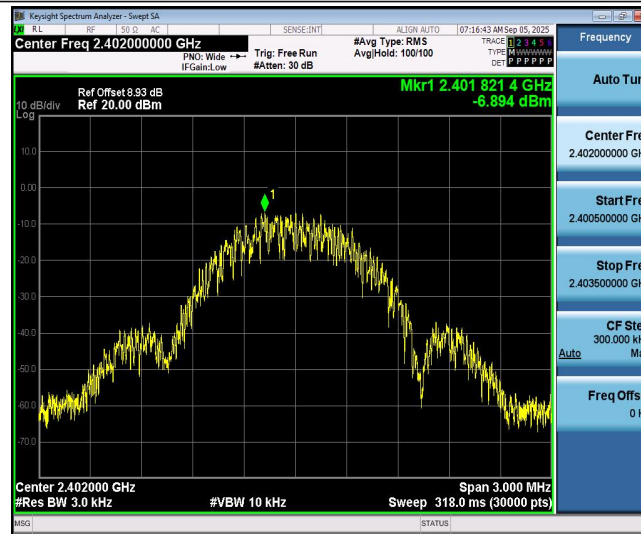
Appendix A.4: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant1	2402	-6.89	≤8.00	PASS
		2440	-6.58	≤8.00	PASS
		2480	-6.71	≤8.00	PASS

Test Graphs

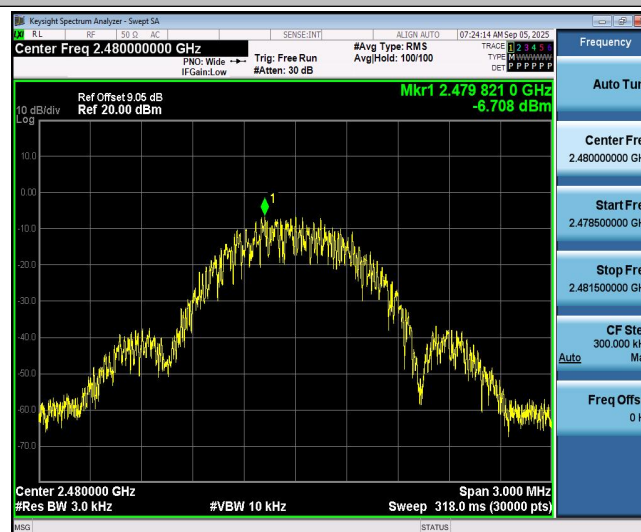
BLE_Ant1_2402



BLE_Ant1_2440



BLE_Ant1_2480

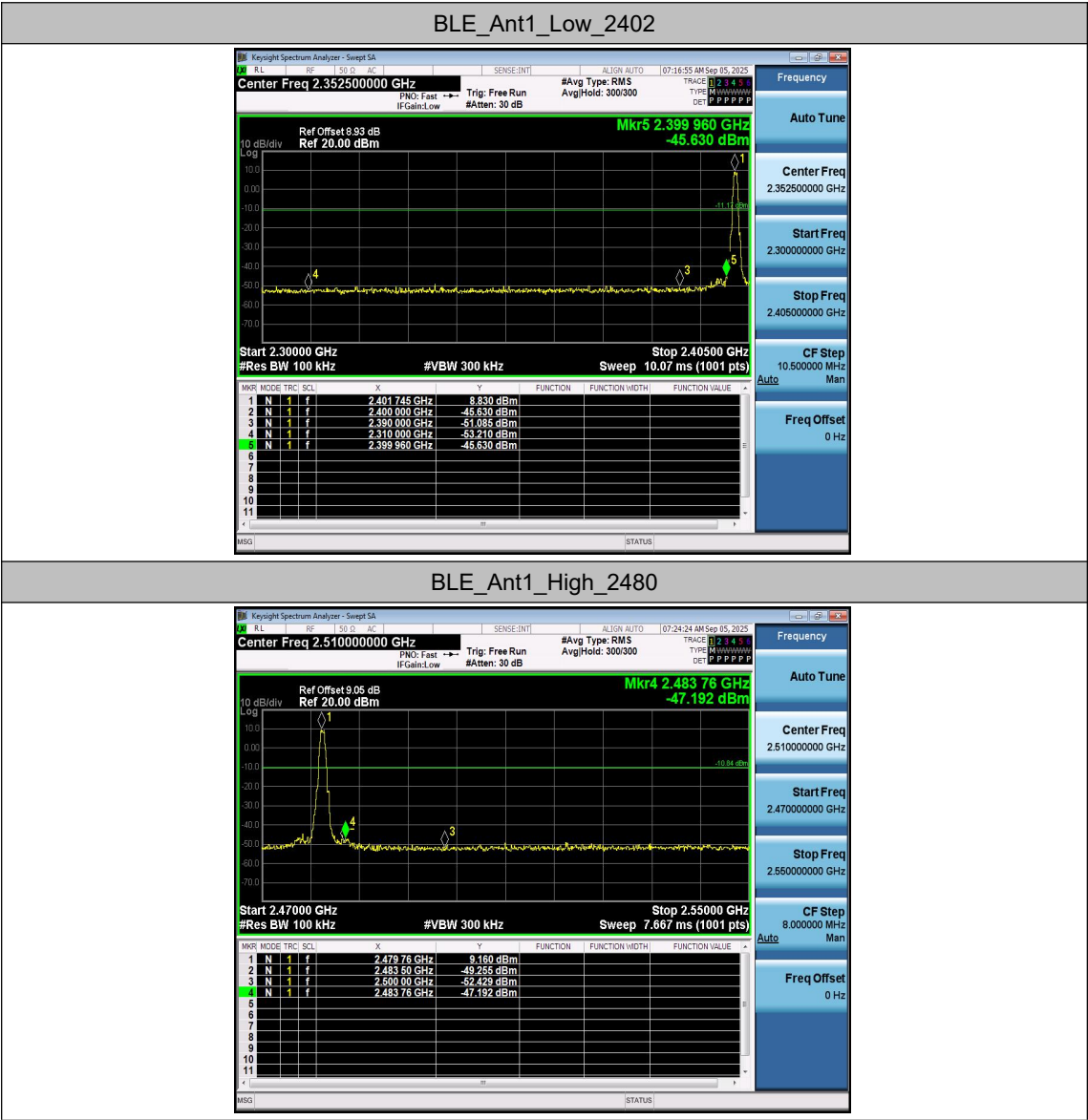


Appendix A.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	Low	2402	8.83	-45.63	≤ -11.17	PASS
		High	2480	9.16	-47.19	≤ -10.84	PASS

Test Graphs



Appendix A.6: Conducted Spurious Emission

Test Result

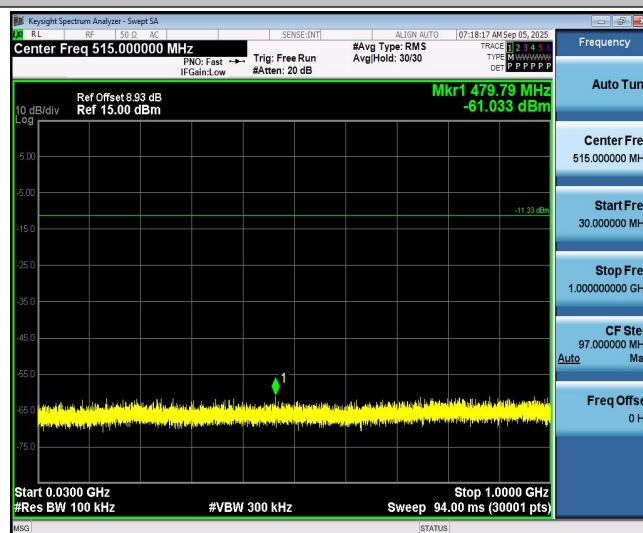
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant1	2402	Reference	8.67	8.67	---	PASS
			30~1000	8.67	-61.03	≤-11.33	PASS
			1000~26500	8.67	-44.69	≤-11.33	PASS
		2440	Reference	8.84	8.84	---	PASS
			30~1000	8.84	-60.43	≤-11.16	PASS
			1000~26500	8.84	-42.82	≤-11.16	PASS
		2480	Reference	8.90	8.90	---	PASS
			30~1000	8.90	-59.69	≤-11.1	PASS
			1000~26500	8.90	-44.41	≤-11.1	PASS

Test Graphs

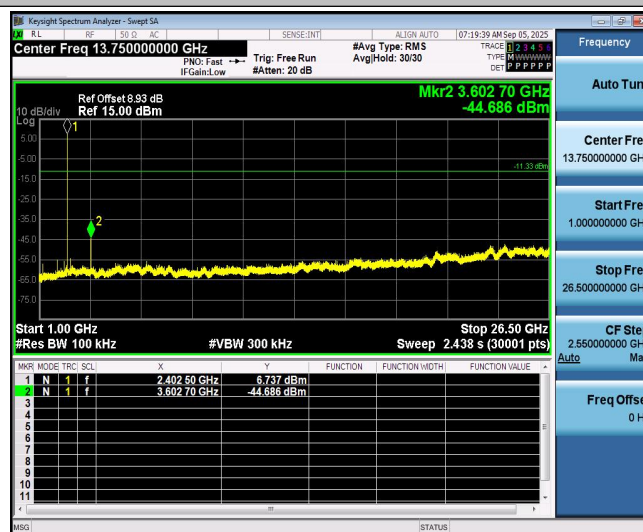
BLE_Ant1_2402_0~Reference

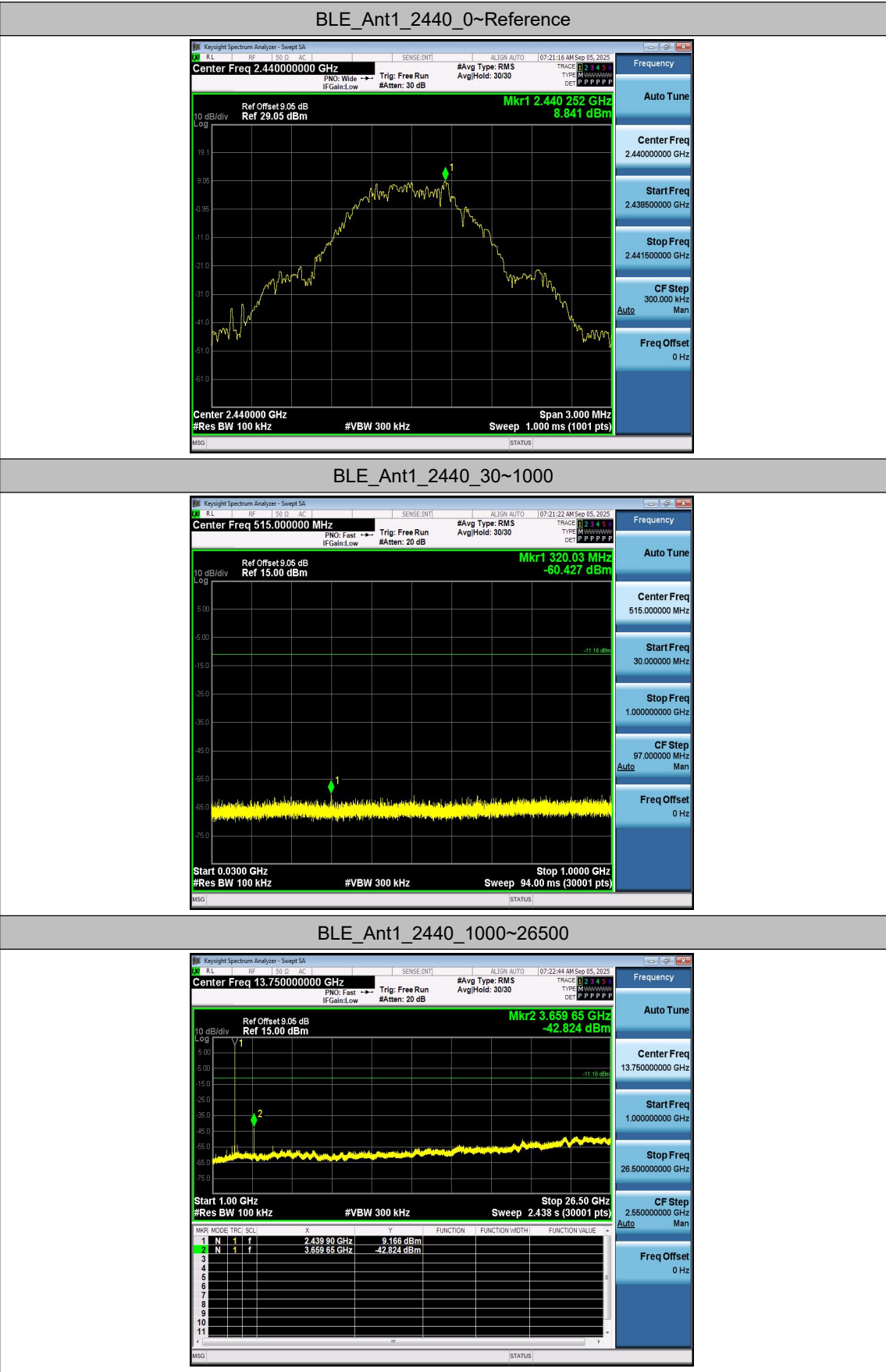


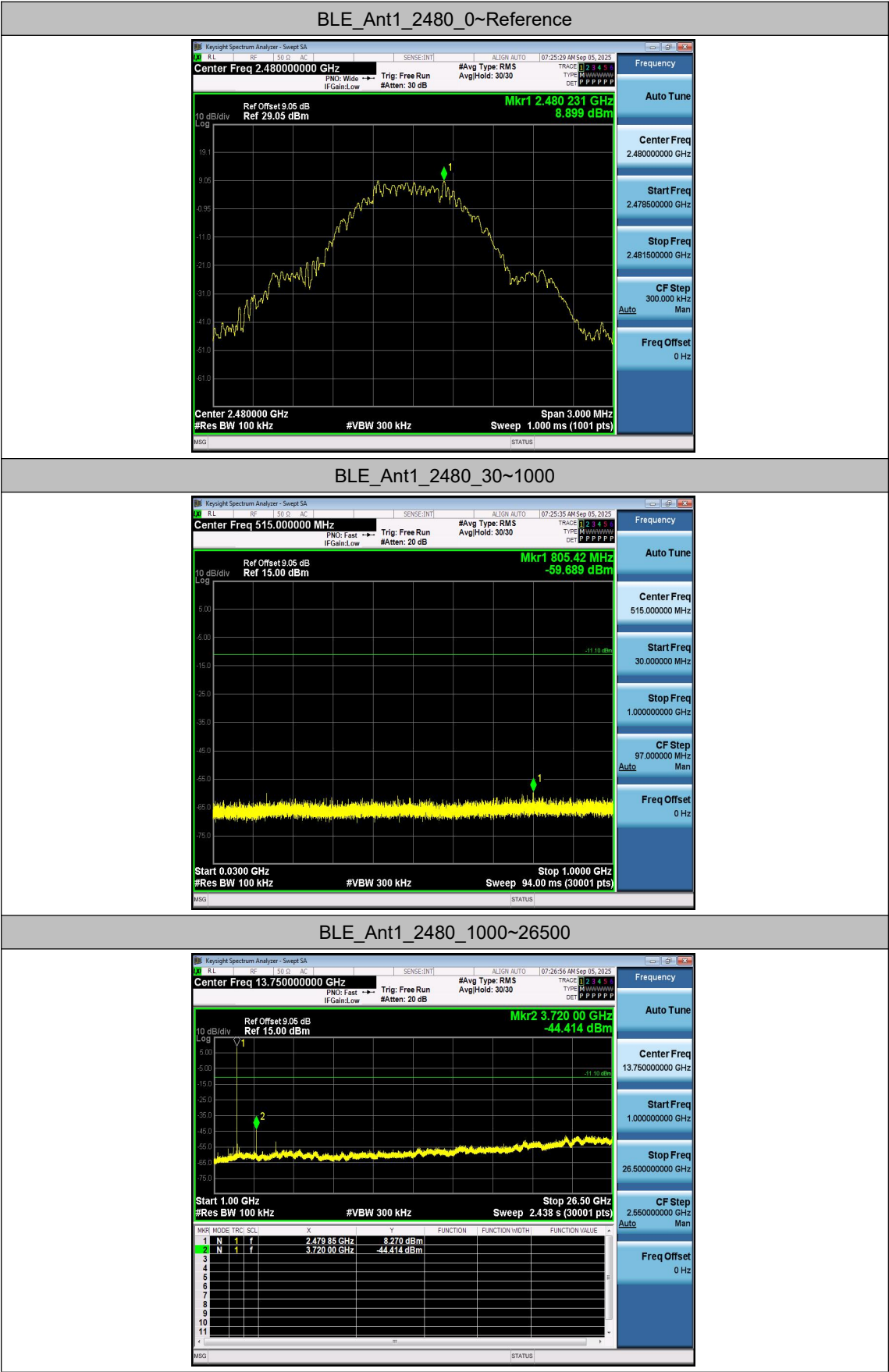
BLE_Ant1_2402_30~1000



BLE_Ant1_2402_1000~26500







Appendix A.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	-49.14	≤-41.20	46.06	≤54	PASS
				AV	2389.985	-48.56	≤-41.20	46.64	≤54	PASS
				AV	2390.000	-48.56	≤-41.20	46.64	≤54	PASS
				Peak	2310.000	-41.21	≤-21.20	53.99	≤74	PASS
				Peak	2373.920	-38.41	≤-21.20	56.79	≤74	PASS
				Peak	2390.000	-41.79	≤-21.20	53.41	≤74	PASS
		High	2480	AV	2483.500	-44.73	≤-41.20	50.47	≤54	PASS
				AV	2483.520	-44.73	≤-41.20	50.47	≤54	PASS
				AV	2500.000	-48.48	≤-41.20	46.72	≤54	PASS
				Peak	2483.500	-37.42	≤-21.20	57.78	≤74	PASS
				Peak	2484.480	-34.74	≤-21.20	60.46	≤74	PASS
				Peak	2500.000	-40.74	≤-21.20	54.46	≤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

