



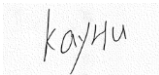
Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: TV BOX

Test Model: A95X W2

Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Kay Hu
Supervised by:	 Li Huan



B.1 DTS Bandwidth

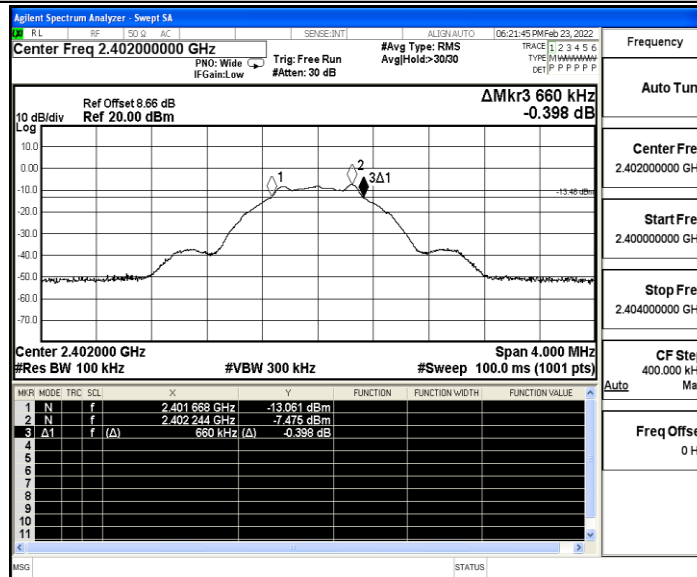
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.668	2402.328	0.5	PASS
		2440	0.660	2439.668	2440.328	0.5	PASS
		2480	0.664	2479.668	2480.332	0.5	PASS

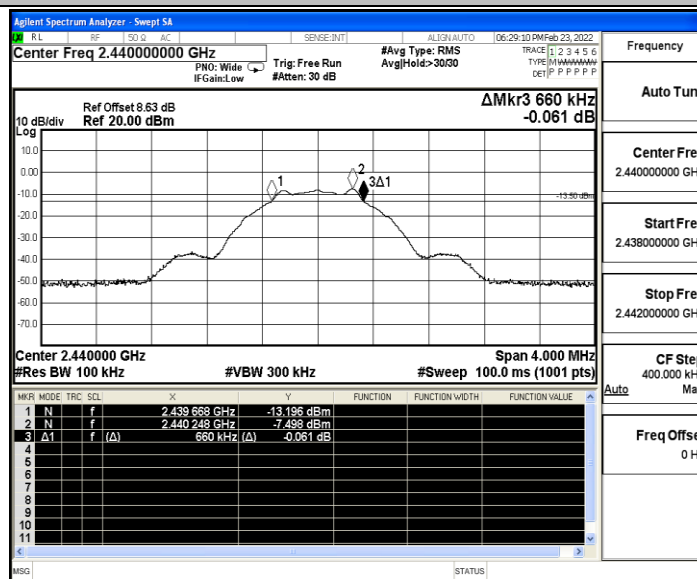


Test Graphs

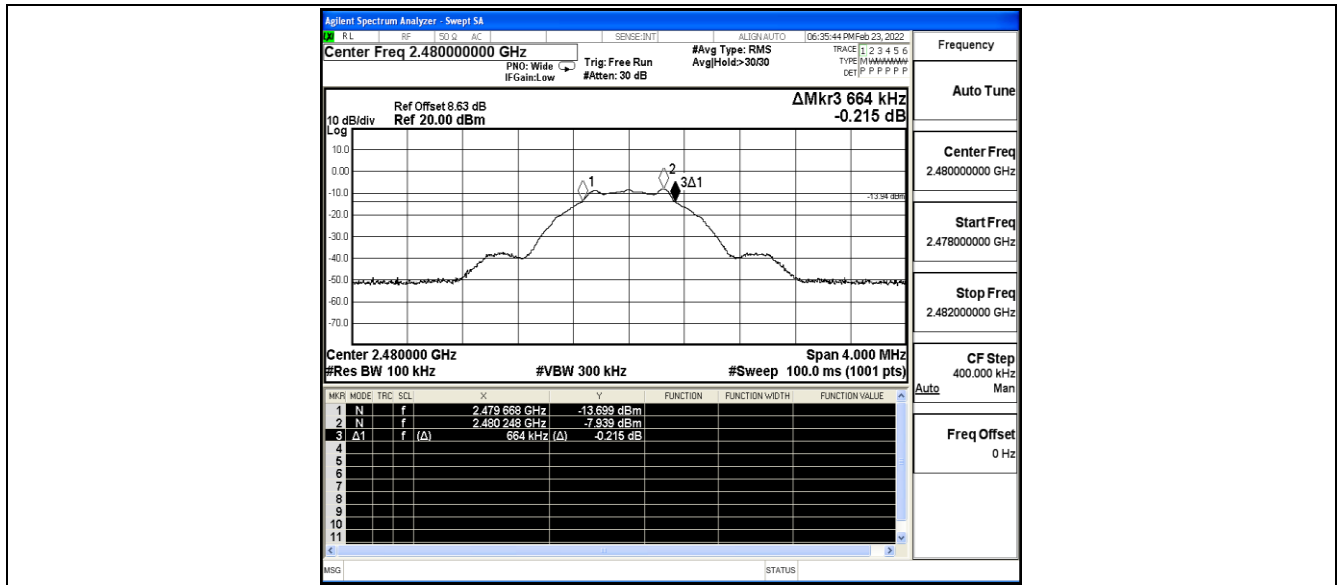
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.2 Maximum peak conducted output power

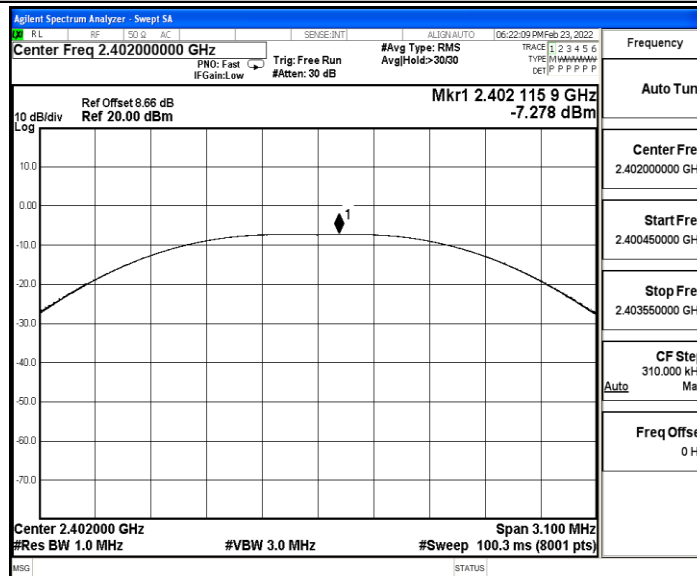
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-7.28	≤ 30	PASS
		2440	-7.3	≤ 30	PASS
		2480	-7.71	≤ 30	PASS

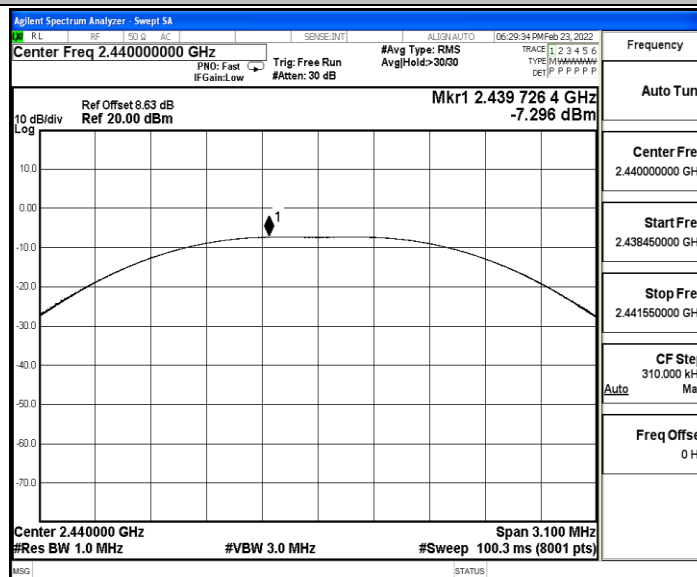


Test Graphs

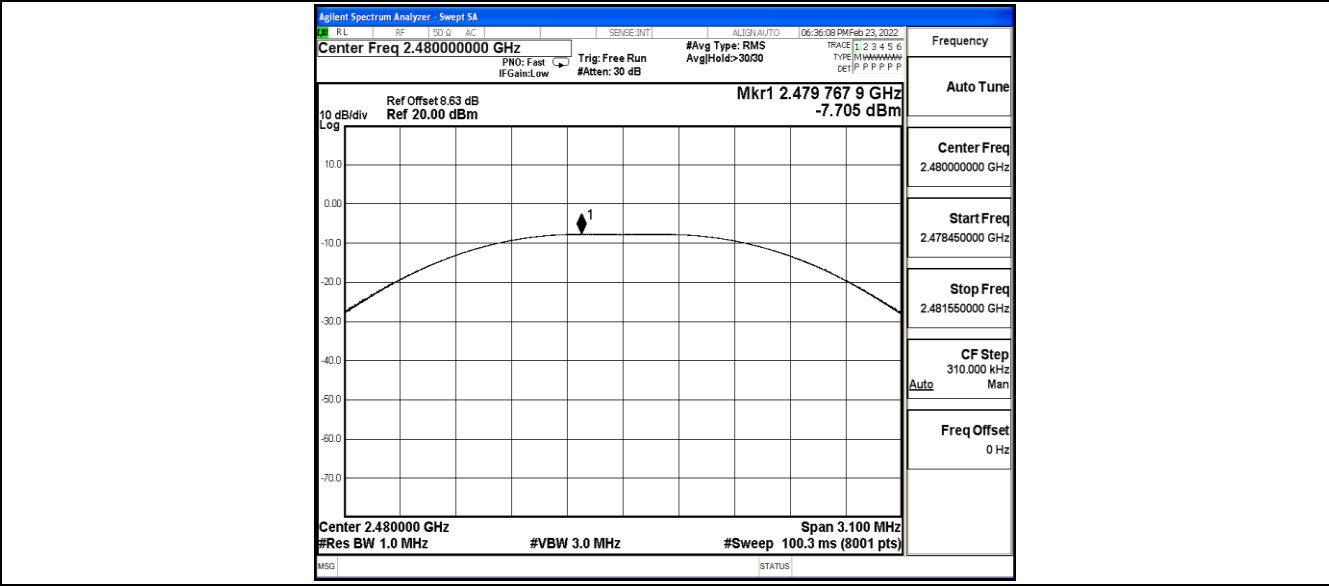
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.3 Maximum power spectral density

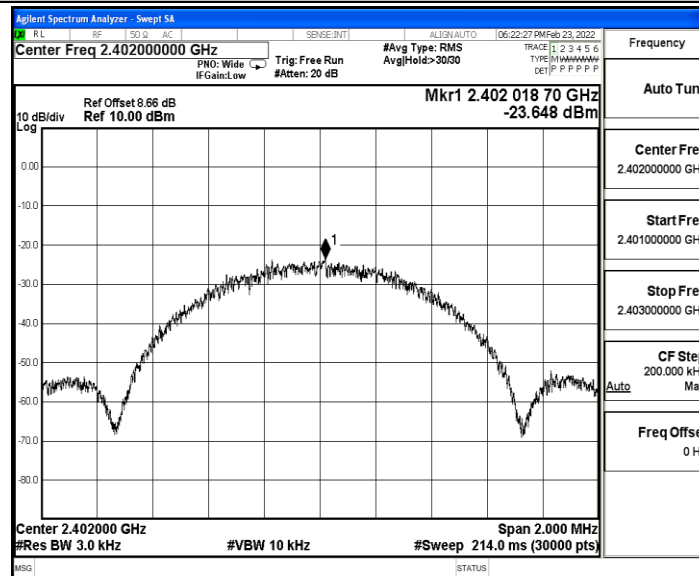
Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-23.65	≤8.00	PASS
		2440	-23.53	≤8.00	PASS
		2480	-24.07	≤8.00	PASS

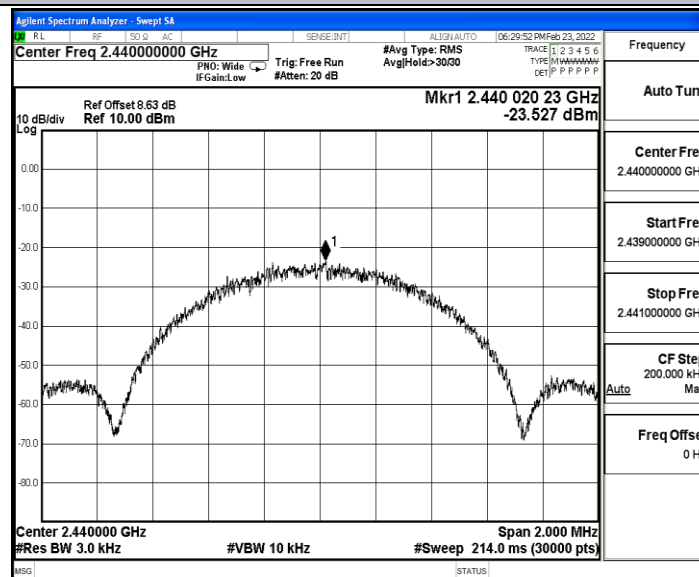


Test Graphs

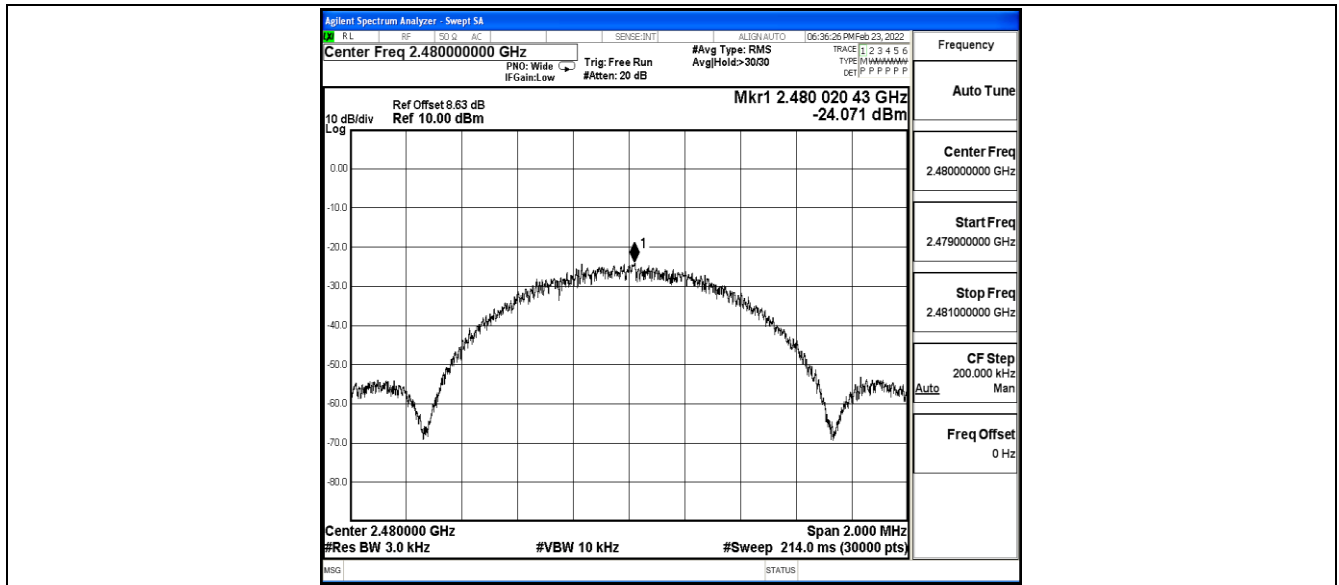
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.4 Band edge measurements

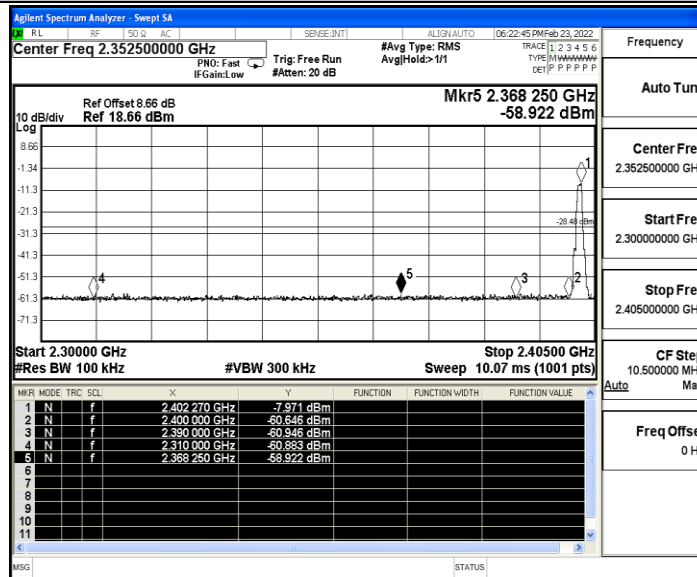
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-8.48	-58.92	≤ -28.48	PASS
		High	2480	-8.24	-57.62	≤ -28.24	PASS

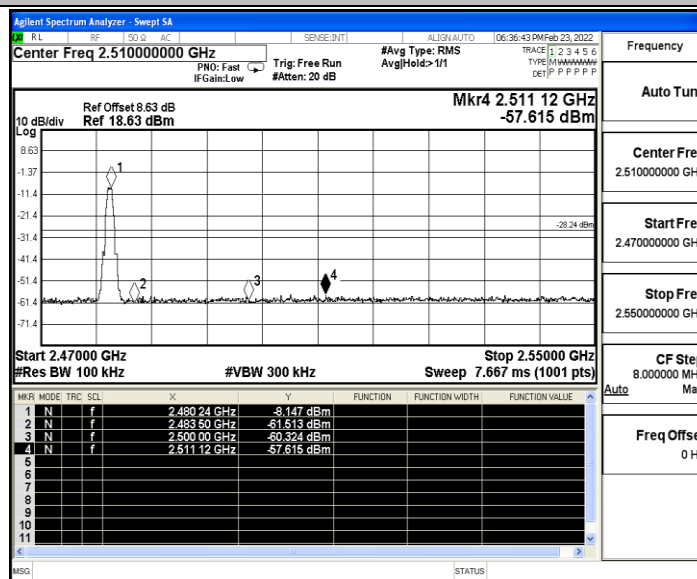


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480





B.5 Conducted Spurious Emission

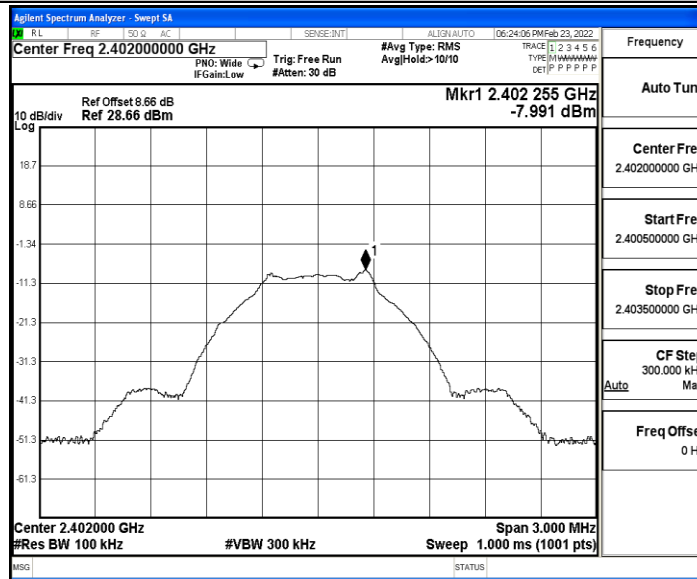
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-7.99	-7.99	---	PASS
			30~1000	-7.99	-61.14	≤ -27.99	PASS
			1000~26500	-7.99	-46.43	≤ -27.99	PASS
		2440	Reference	-7.51	-7.51	---	PASS
			30~1000	-7.51	-60.24	≤ -27.51	PASS
			1000~26500	-7.51	-46.59	≤ -27.51	PASS
		2480	Reference	-8.02	-8.02	---	PASS
			30~1000	-8.02	-61.04	≤ -28.02	PASS
			1000~26500	-8.02	-46.34	≤ -28.02	PASS

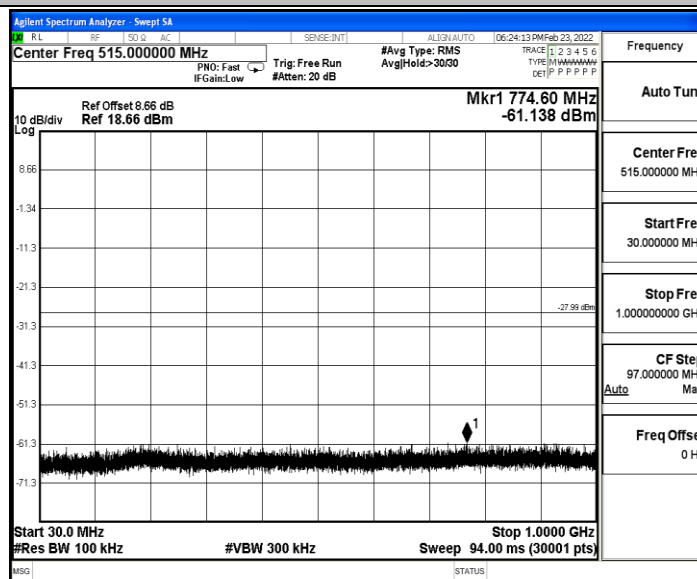


Test Graphs

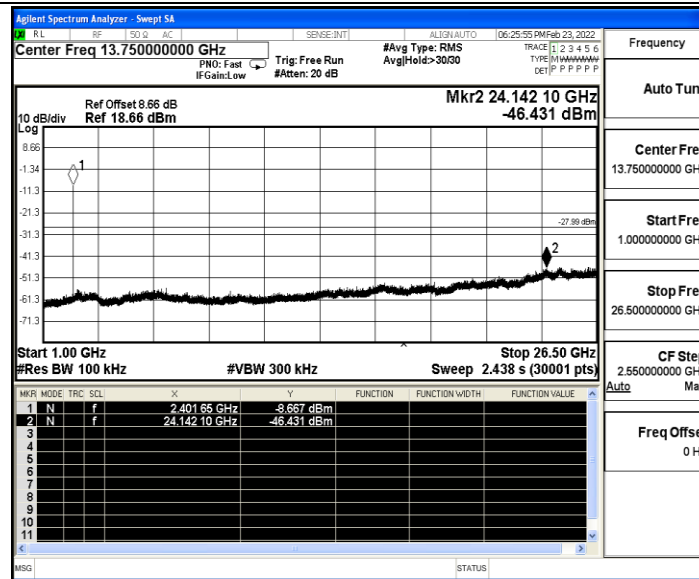
BLE_1M_Ant1_2402_0~Reference



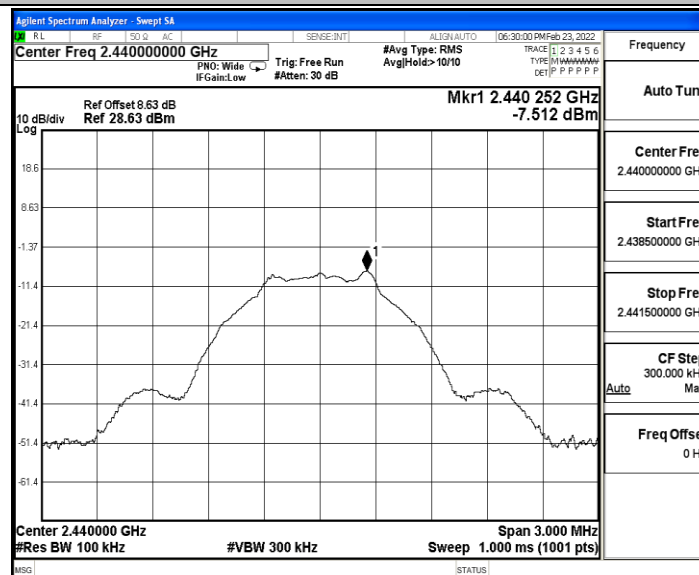
BLE_1M_Ant1_2402_30~1000



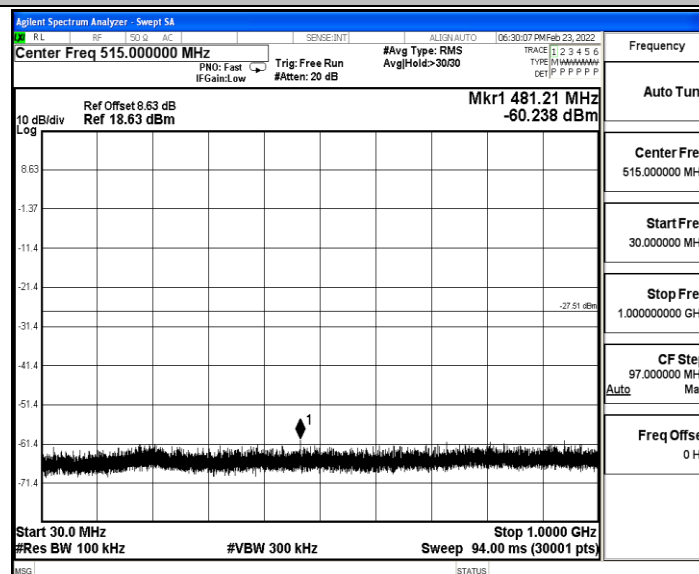
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference

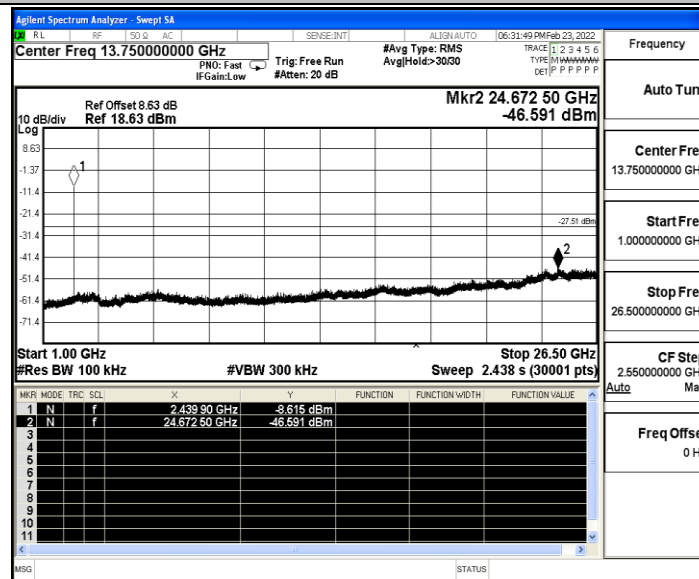


BLE_1M_Ant1_2440_30~1000

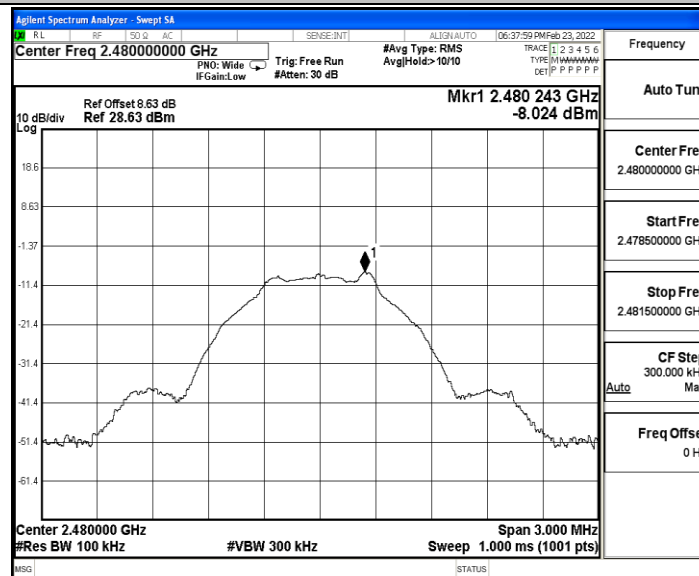




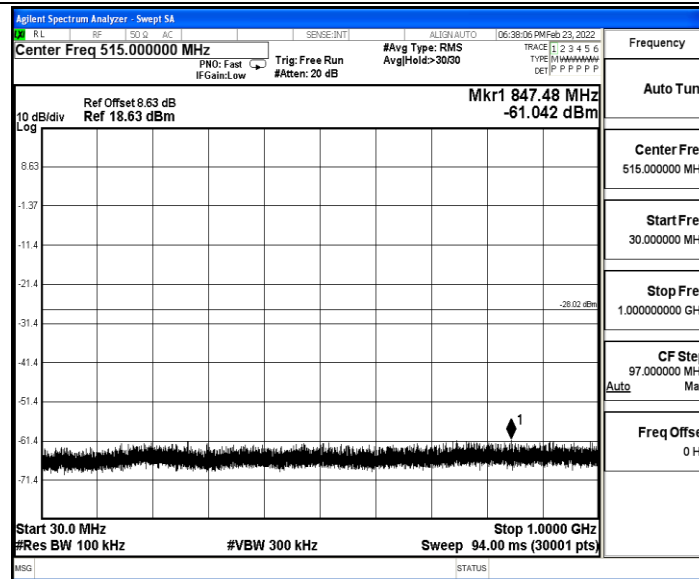
BLE_1M_Ant1_2440_1000-26500



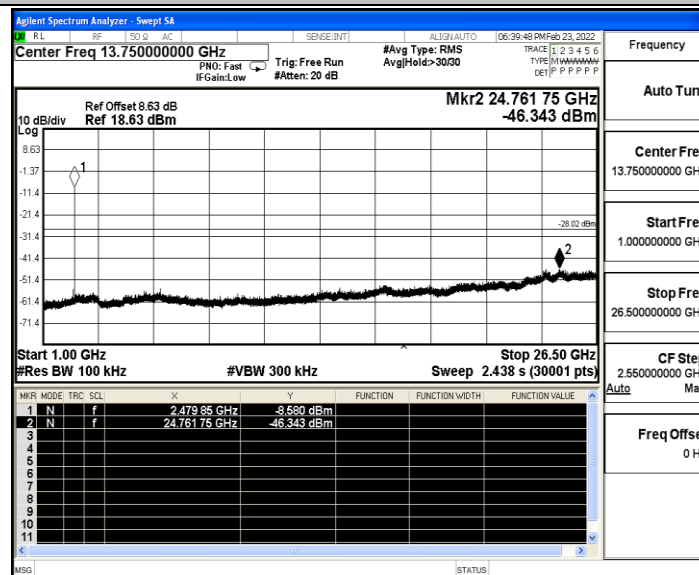
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500





B.6 Duty Cycle

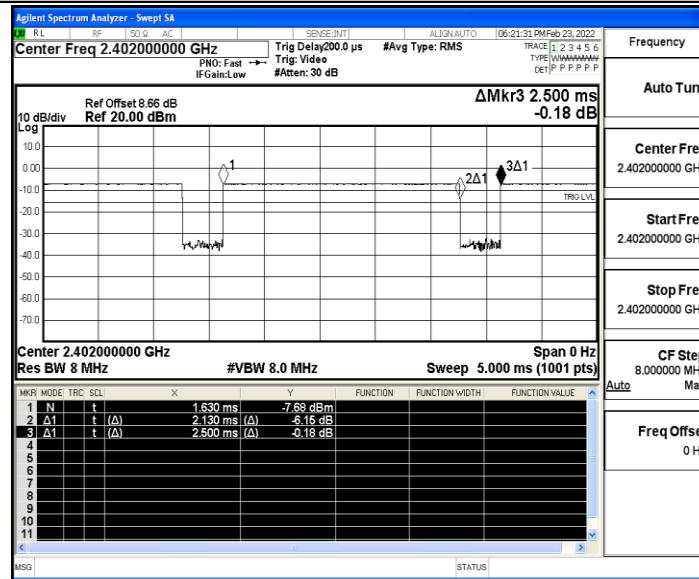
Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	2.13	2.50	0.8520	85.20	0.70	---	---
		2440	2.12	2.50	0.8480	84.80	0.72	---	---
		2480	2.13	2.50	0.8520	85.20	0.70	---	---

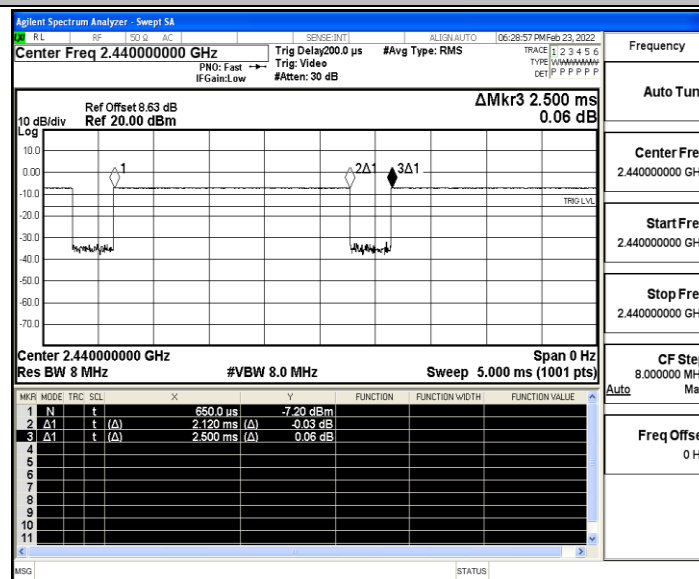


Test Graphs

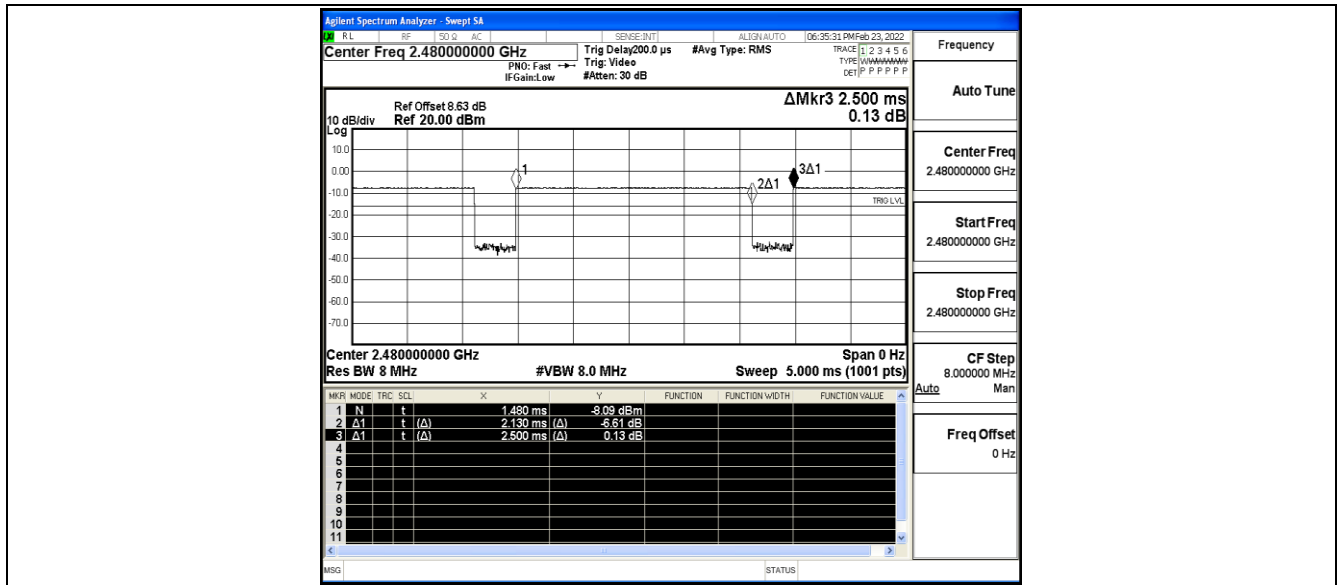
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	2402	AV	2310.000	-58.14	≤-41.20	37.06	≤54	PASS
			AV	2388.725	-57.59	≤-41.20	37.61	≤54	PASS
			AV	2390.000	-57.77	≤-41.20	37.43	≤54	PASS
			Peak	2310.000	-48.58	≤-21.20	46.62	≤74	PASS
			Peak	2380.430	-46.56	≤-21.20	48.64	≤74	PASS
			Peak	2390.000	-48.46	≤-21.20	46.74	≤74	PASS
		2480	AV	2483.500	-56.71	≤-41.20	38.49	≤54	PASS
			AV	2483.520	-56.71	≤-41.20	38.49	≤54	PASS
			AV	2500.000	-57.15	≤-41.20	38.05	≤54	PASS
			Peak	2483.500	-47.73	≤-21.20	47.47	≤74	PASS
			Peak	2492.160	-46.2	≤-21.20	49.00	≤74	PASS
			Peak	2500.000	-47.46	≤-21.20	47.74	≤74	PASS

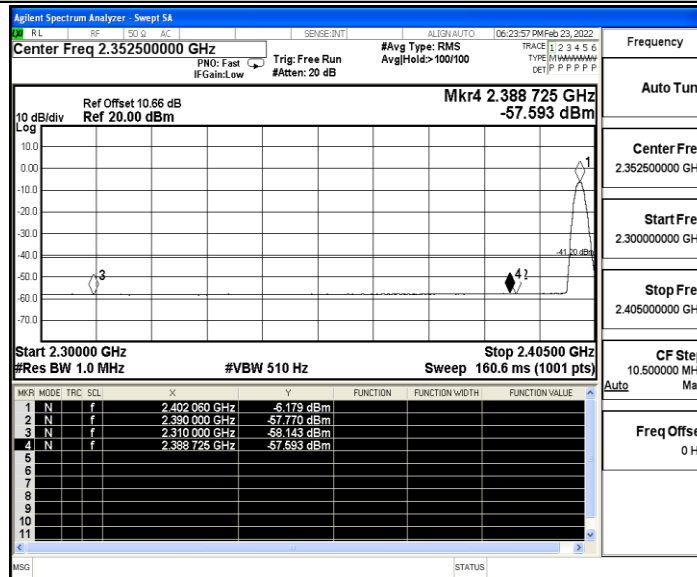
Note:

1. The Antenna Gain is compensated in the graph.
2. 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.

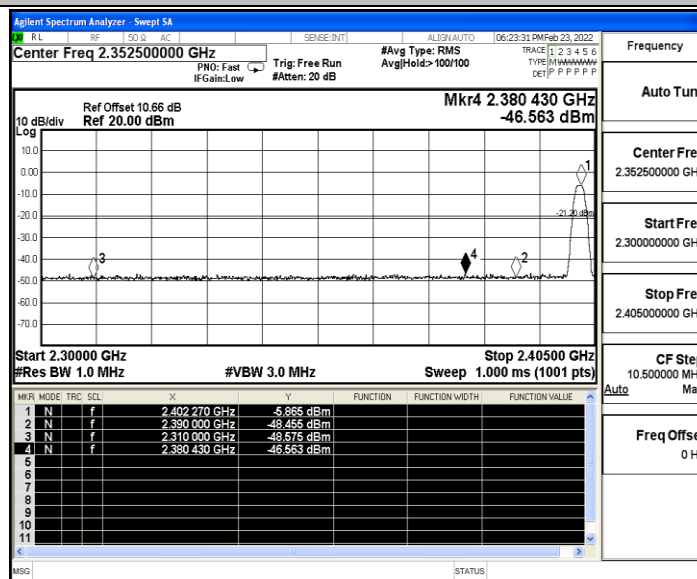


Test Graphs

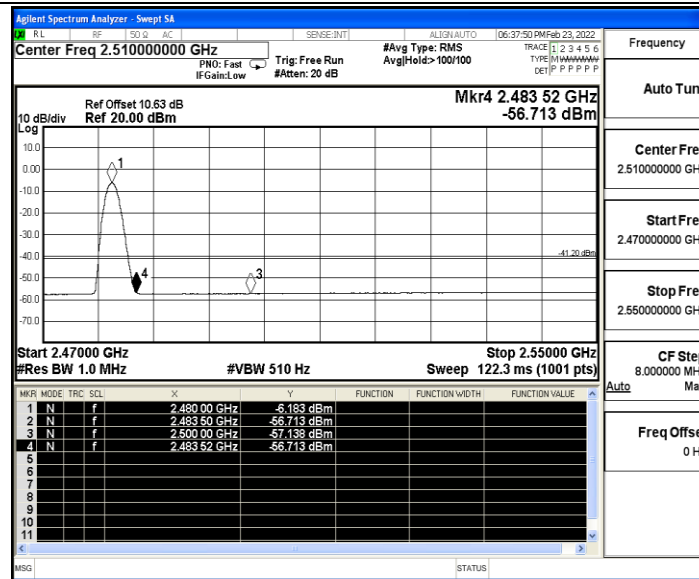
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

