



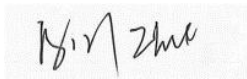
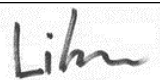
Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Smart TV Box

Test Model: T95PLUS

Environmental Conditions

Temperature:	22.8° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	 Bill Zhu
Supervised by:	 Li Huan



B.1 DTS Bandwidth

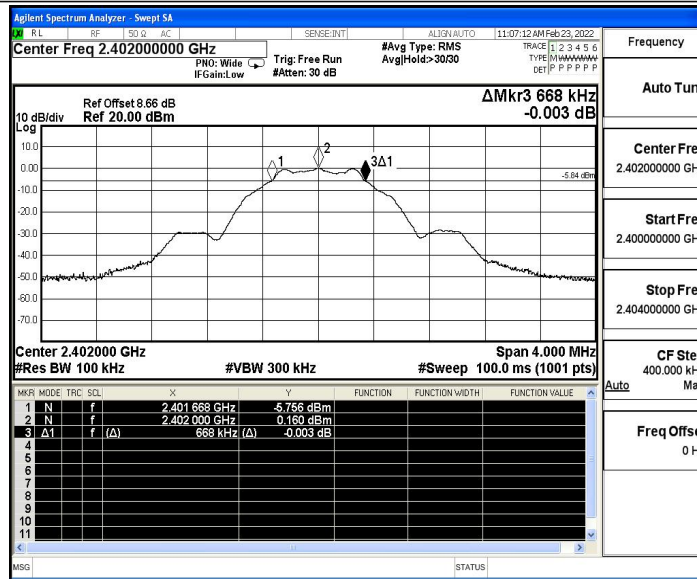
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.668	2402.336	0.5	PASS
		2440	0.668	2439.664	2440.332	0.5	PASS
		2480	0.668	2479.664	2480.332	0.5	PASS

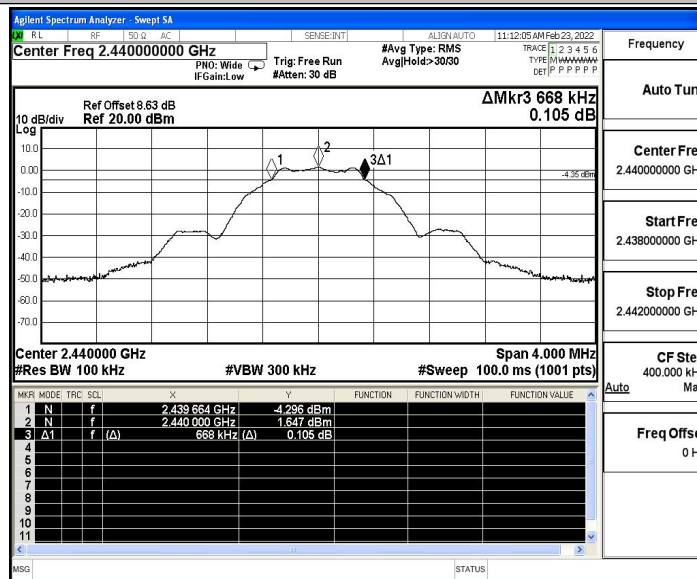


Test Graphs

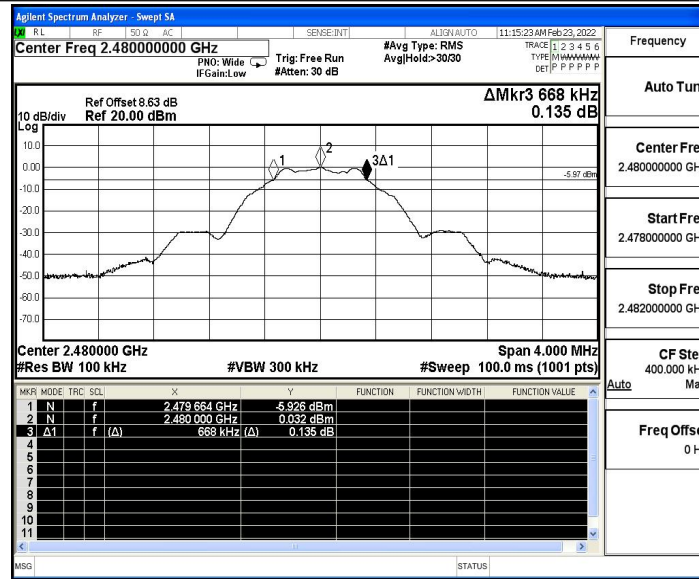
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.2 Maximum peak conducted output power

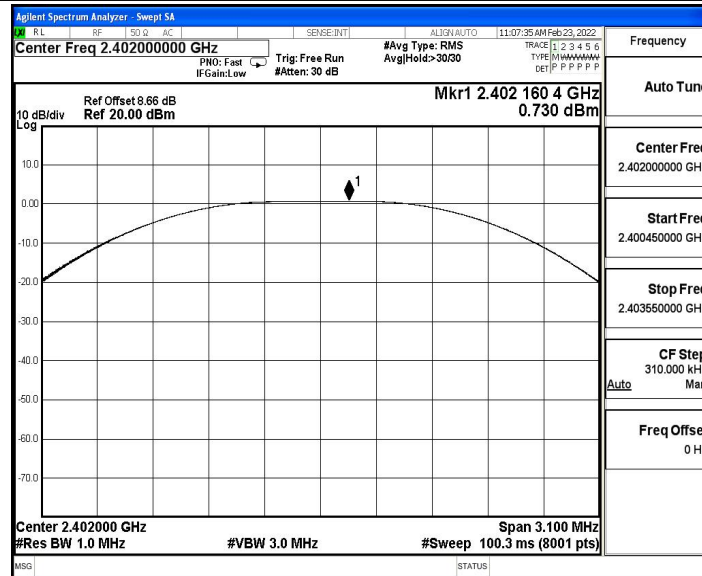
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.73	≤30	PASS
		2440	2.18	≤30	PASS
		2480	0.6	≤30	PASS

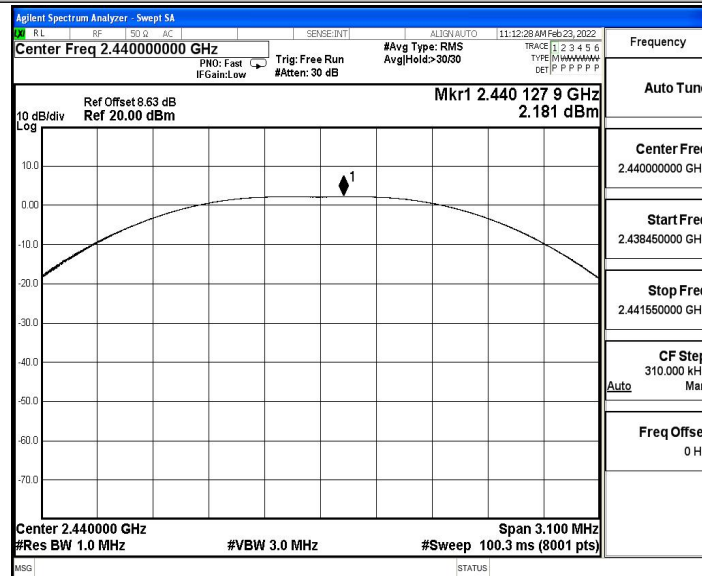


Test Graphs

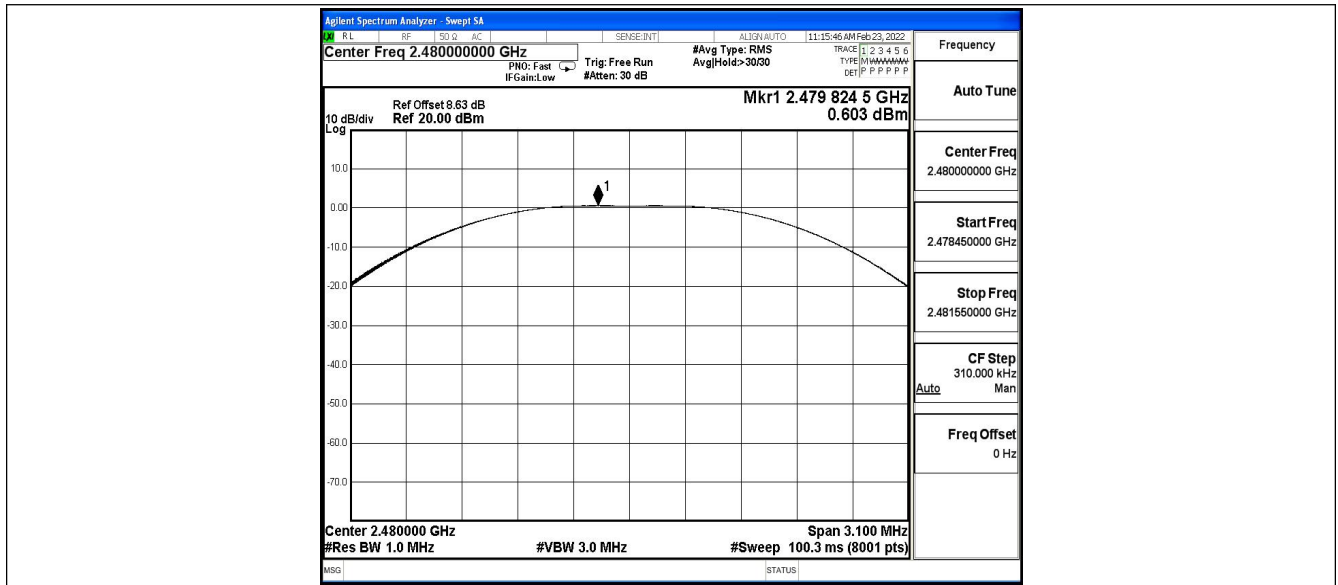
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.3 Maximum power spectral density

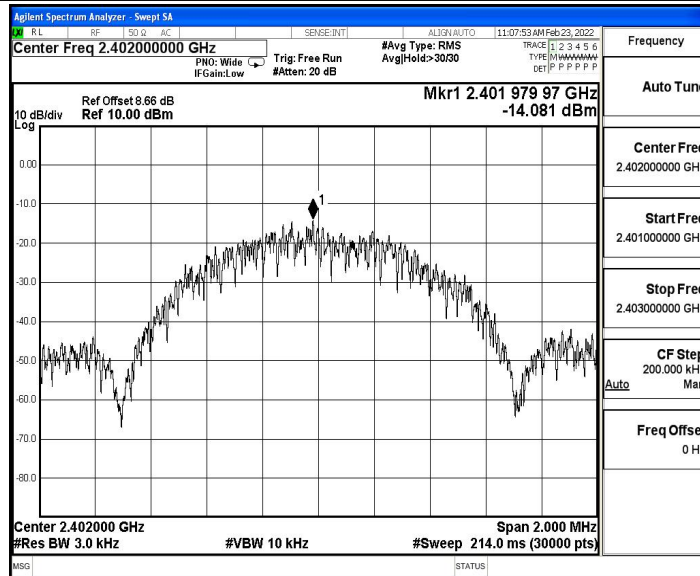
Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.08	≤8.00	PASS
		2440	-12.55	≤8.00	PASS
		2480	-14.13	≤8.00	PASS

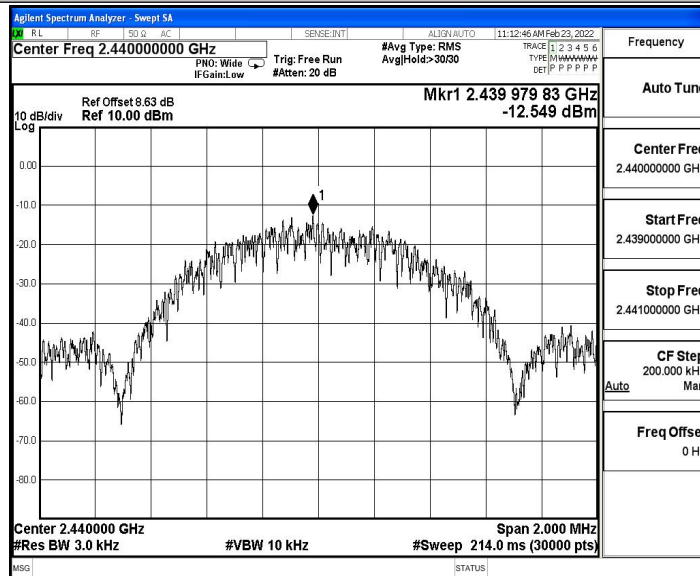


Test Graphs

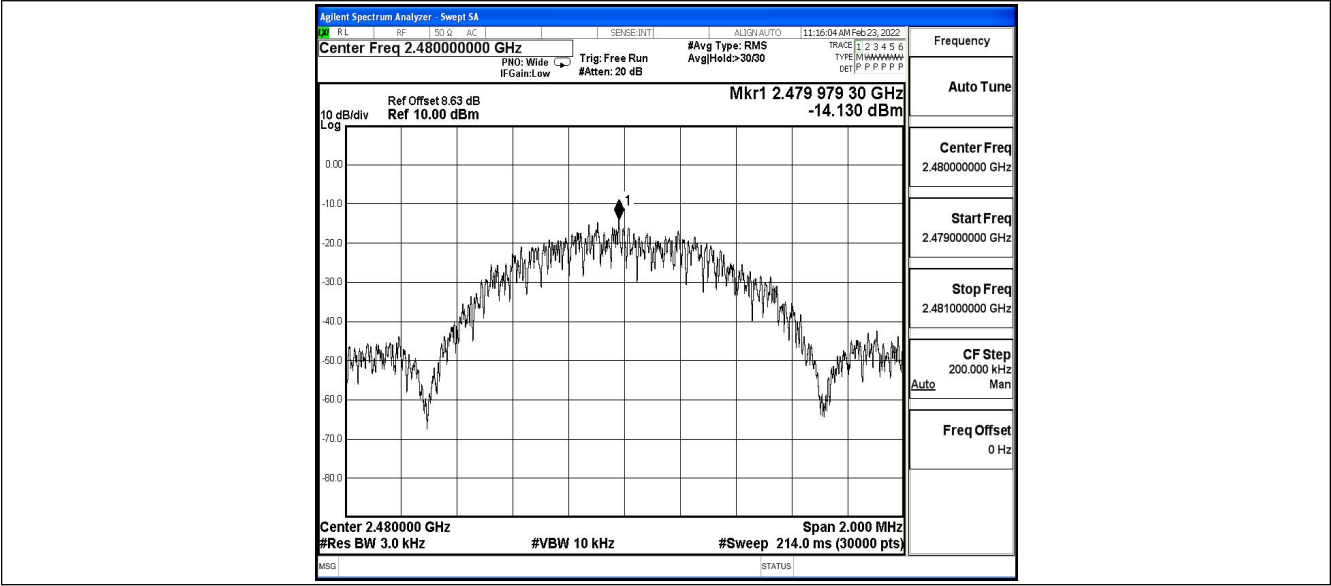
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.4 Band edge measurements

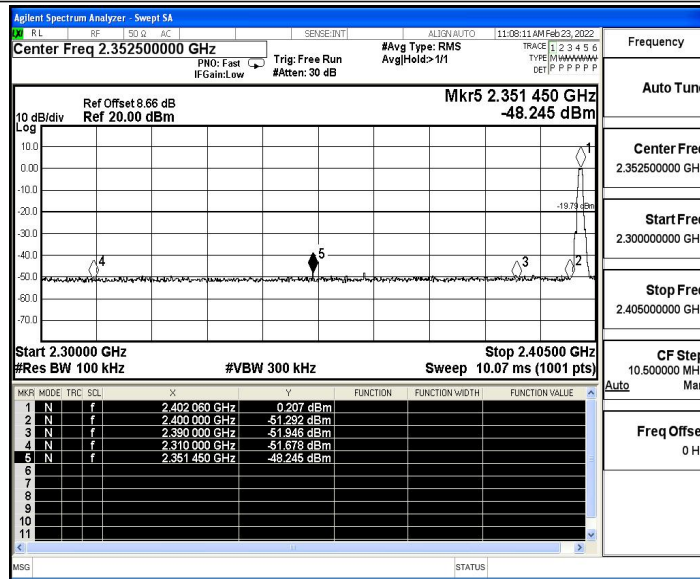
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.21	-48.25	≤-19.79	PASS
		High	2480	0.19	-48.38	≤-19.81	PASS

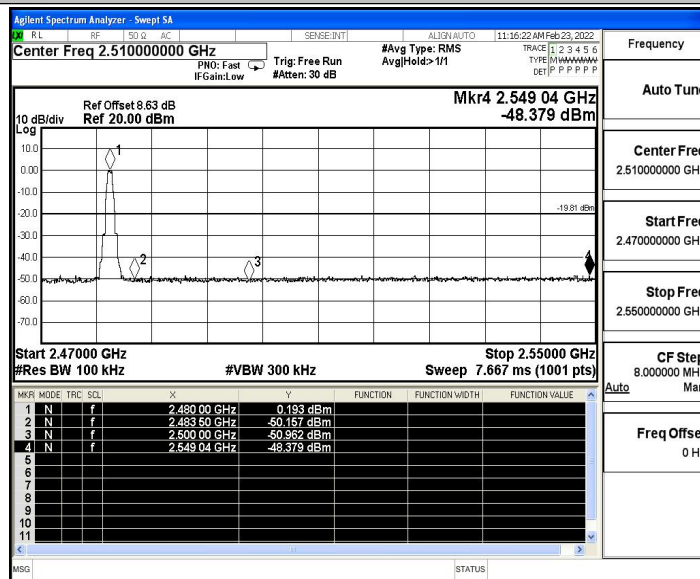


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480





B.5 Conducted Spurious Emission

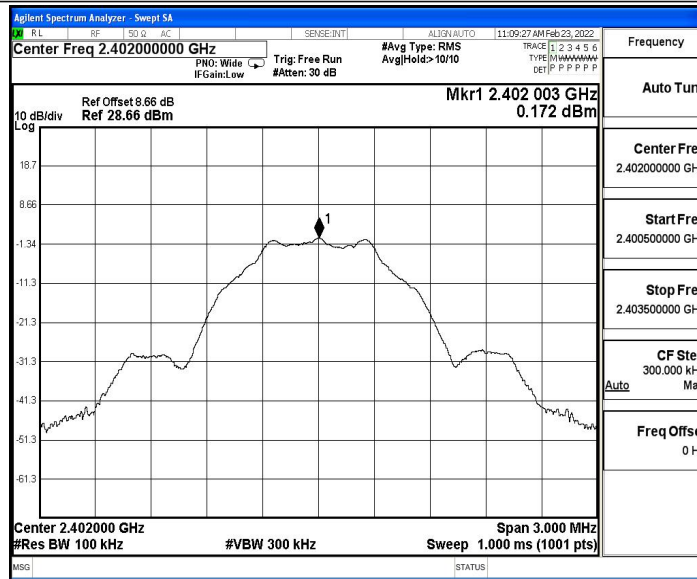
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.17	0.17	---	PASS
			30~1000	0.17	-60.55	≤ -19.83	PASS
			1000~26500	0.17	-46.63	≤ -19.83	PASS
		2440	Reference	1.65	1.65	---	PASS
			30~1000	1.65	-54.48	≤ -18.35	PASS
			1000~26500	1.65	-46.5	≤ -18.35	PASS
		2480	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-60.72	≤ -19.94	PASS
			1000~26500	0.06	-45.9	≤ -19.94	PASS

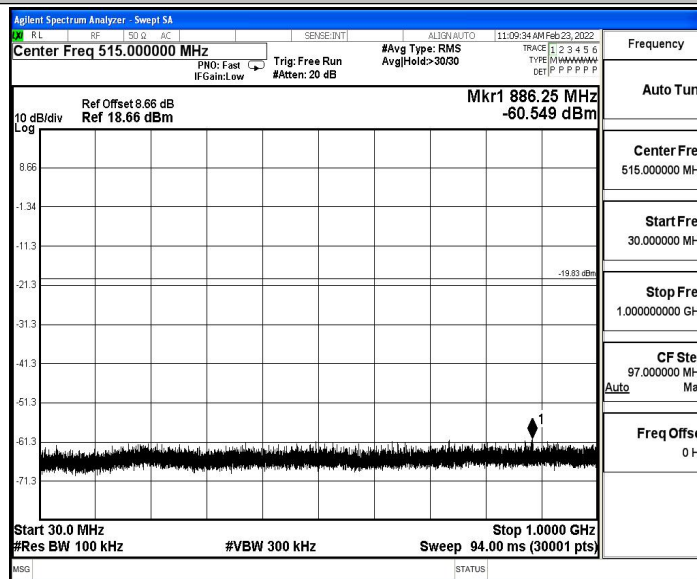


Test Graphs

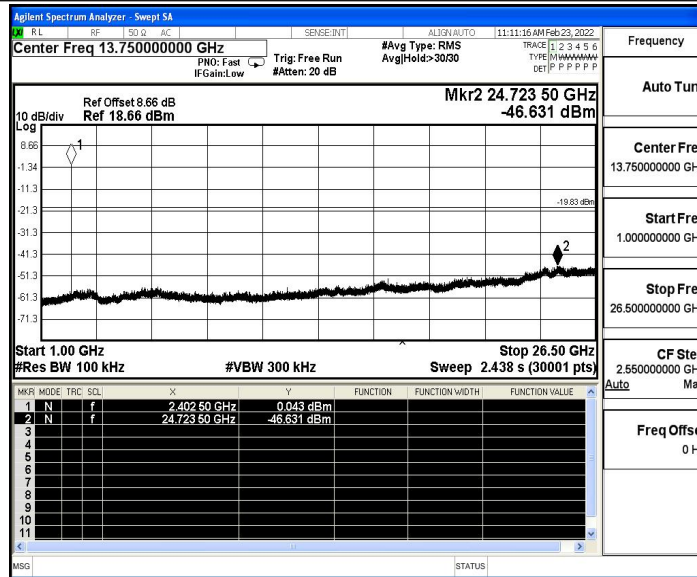
BLE_1M_Ant1_2402_0~Reference



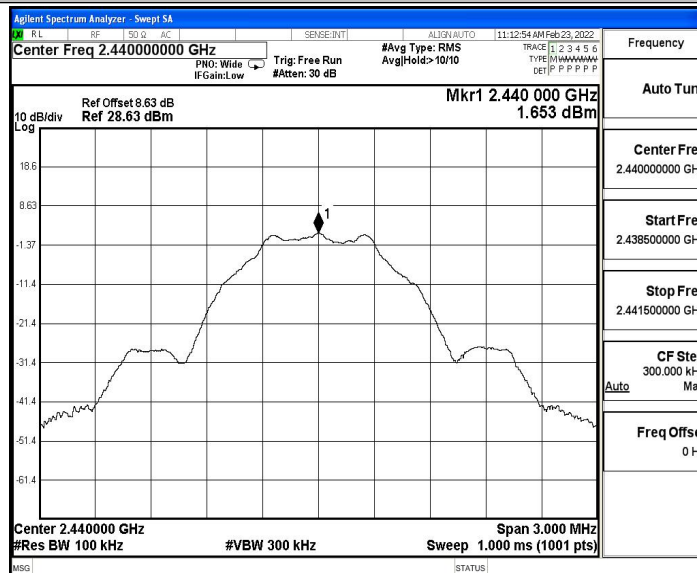
BLE_1M_Ant1_2402_30~1000



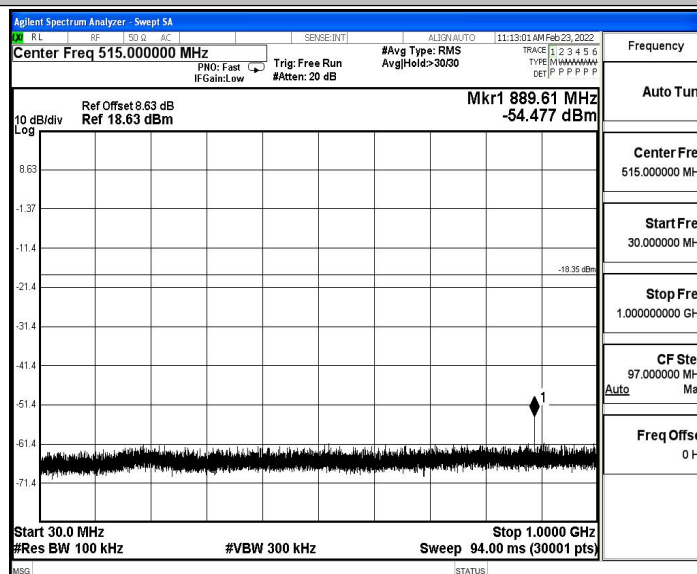
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference

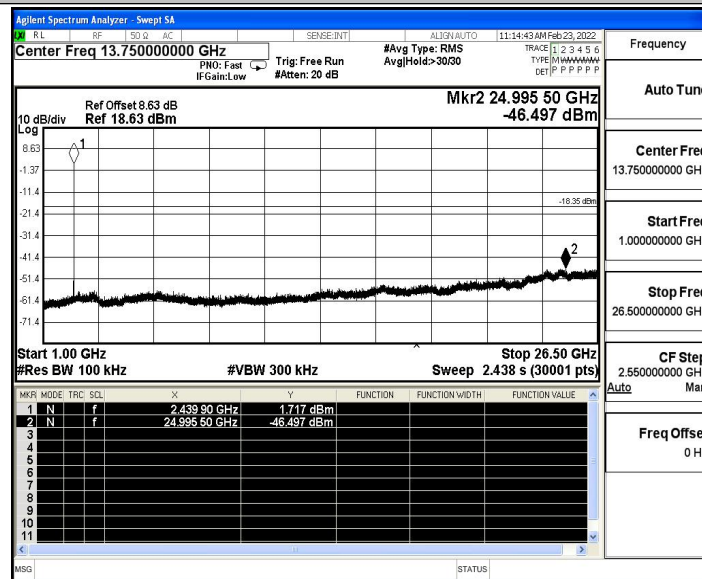


BLE_1M_Ant1_2440_30~1000

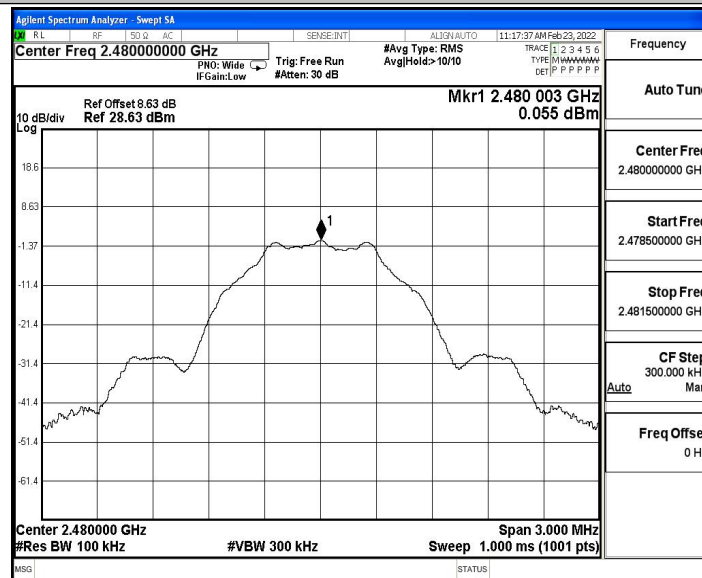




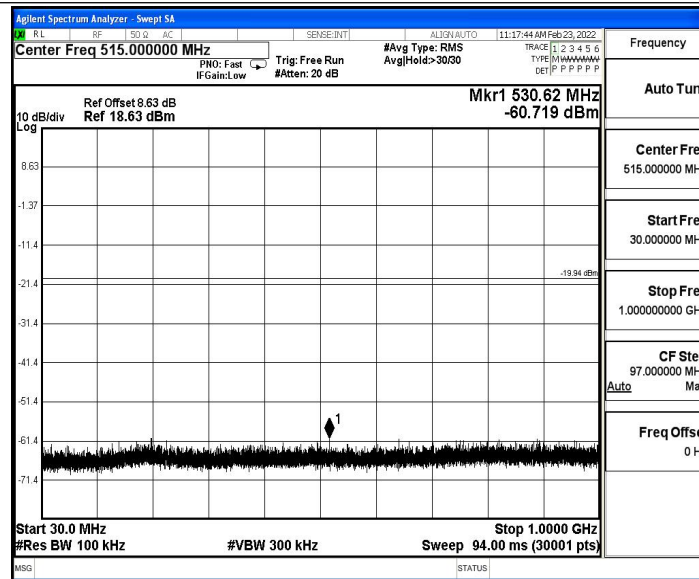
BLE_1M_Ant1_2440_1000~26500



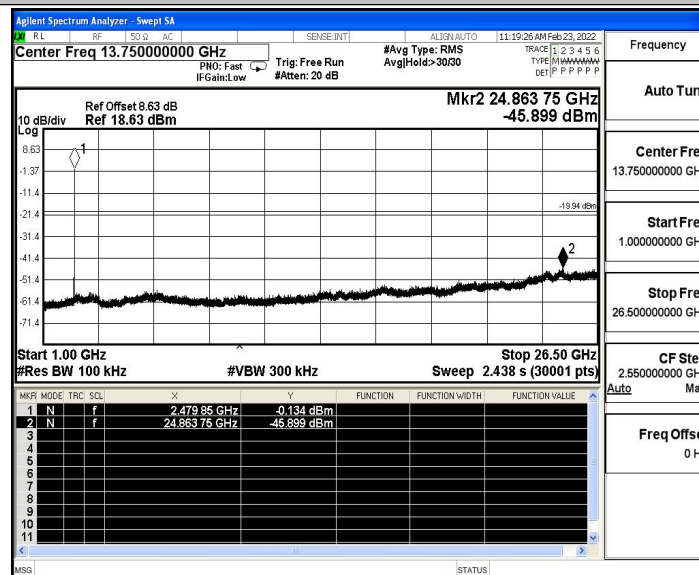
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500





B.6 Duty Cycle

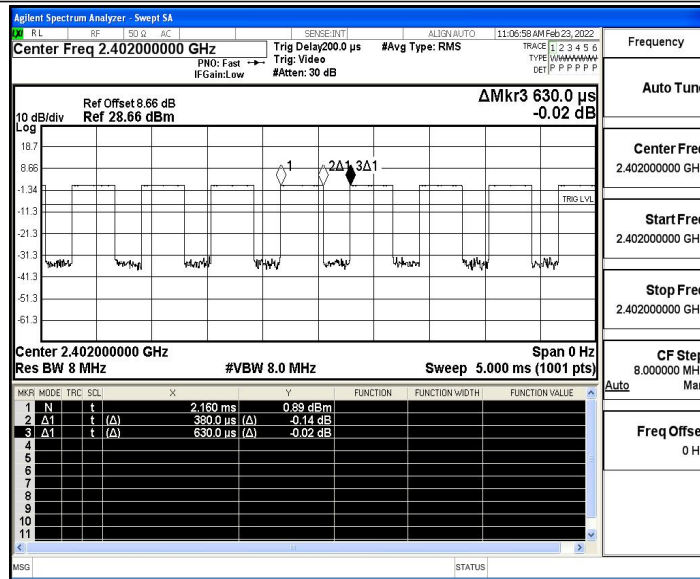
Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T[kHz]
BLE_1M	Ant1	2402	0.38	0.63	0.6032	60.32	2.20	2.63
		2440	0.38	0.63	0.6032	60.32	2.20	2.63
		2480	0.38	0.63	0.6032	60.32	2.20	2.63

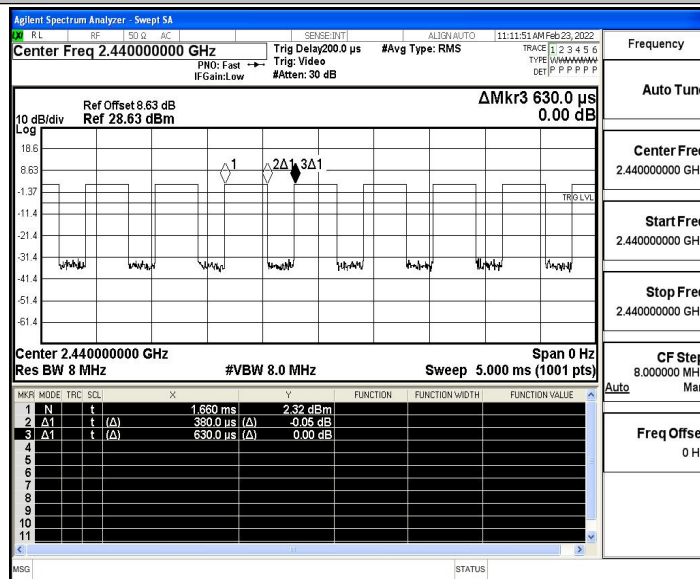


Test Graphs

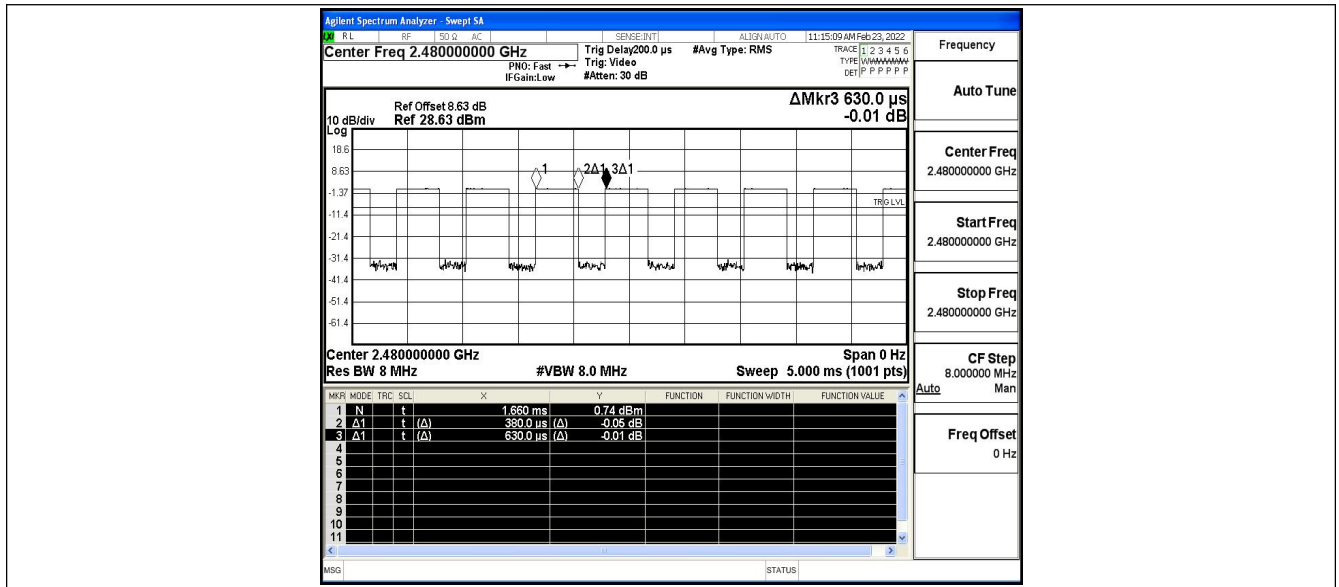
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-47.64	≤-41.20	47.56	≤54	PASS
				AV	2388.200	-46.84	≤-41.20	48.36	≤54	PASS
				AV	2390.000	-47.39	≤-41.20	47.81	≤54	PASS
				Peak	2310.000	-39.06	≤-21.20	56.14	≤74	PASS
				Peak	2329.085	-36.69	≤-21.20	58.51	≤74	PASS
				Peak	2390.000	-38.22	≤-21.20	56.98	≤74	PASS
		High	2480	AV	2483.500	-46.2	≤-41.20	49.00	≤54	PASS
				AV	2483.520	-46.2	≤-41.20	49.00	≤54	PASS
				AV	2500.000	-46.61	≤-41.20	48.59	≤54	PASS
				Peak	2483.500	-38.24	≤-21.20	56.96	≤74	PASS
				Peak	2484.720	-36.73	≤-21.20	58.47	≤74	PASS
				Peak	2500.000	-38.2	≤-21.20	57.00	≤74	PASS

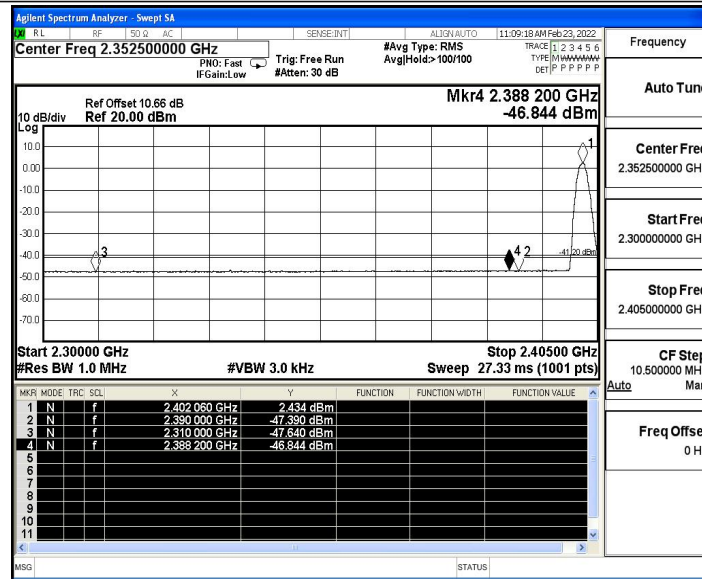
Note:

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.

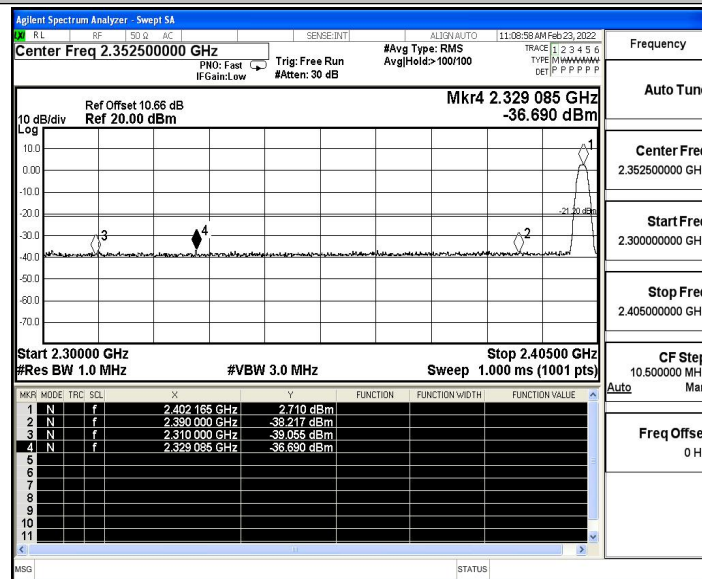


Test Graphs

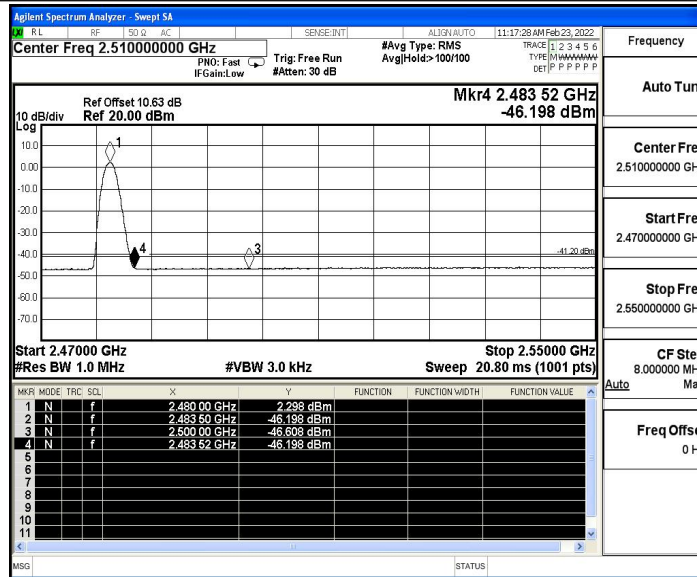
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

