



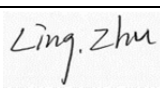
Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: MOBILE PHONE

Test Model: PADUA

Environmental Conditions

Temperature:	23.9 ° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	 Ling Zhu
Supervised by:	 Li Huan



B.1 DTS Bandwidth

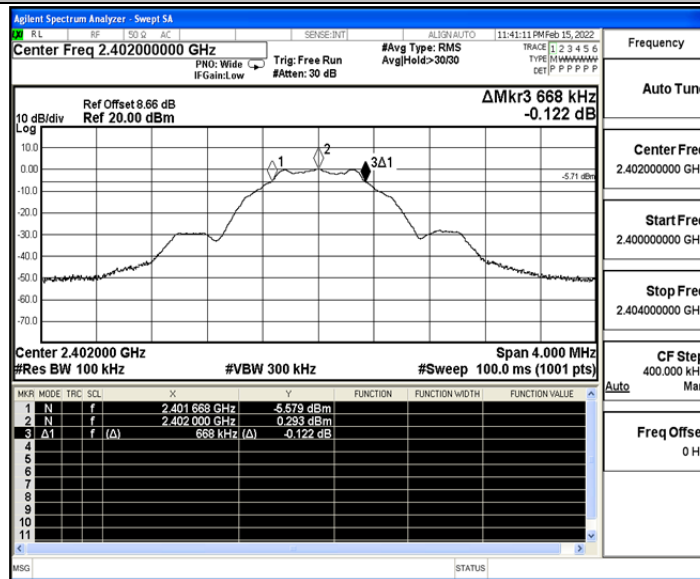
Test Result

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	0.712	2439.632	2440.344	0.5	PASS
		2480	0.668	2479.664	2480.332	0.5	PASS

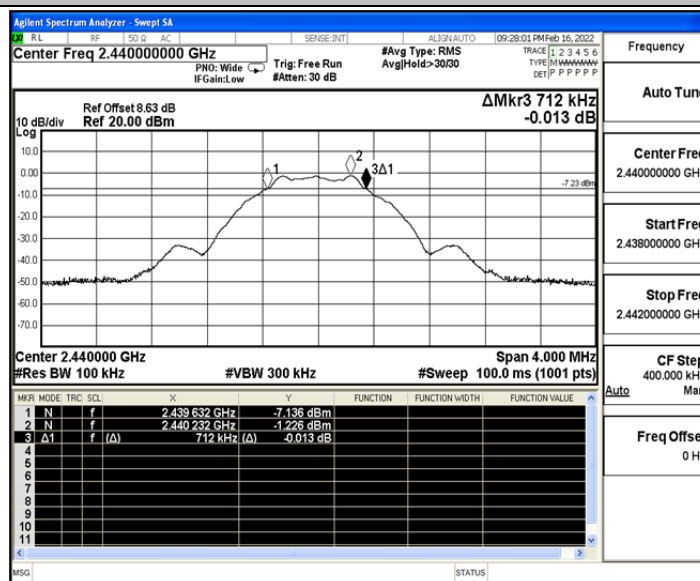


Test Graphs

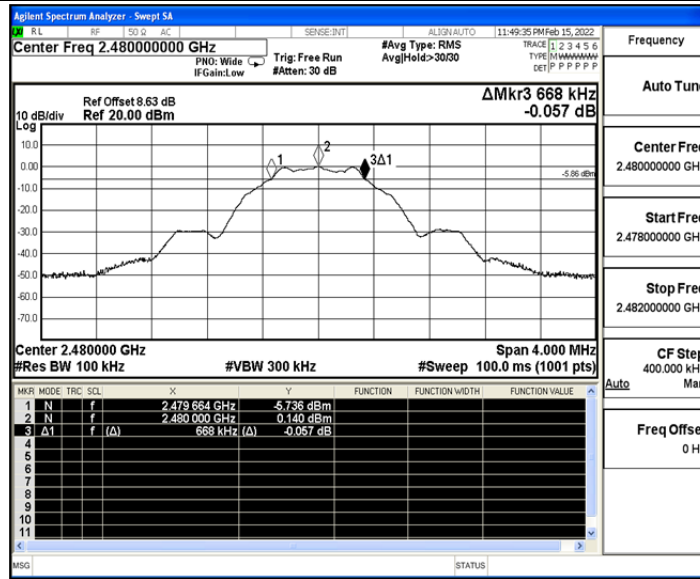
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.2 Maximum peak conducted output power

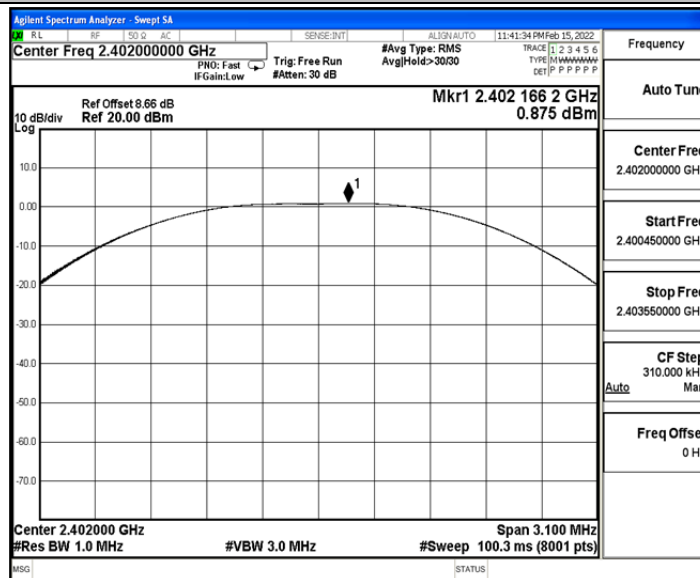
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.88	≤30	PASS
		2440	-0.26	≤30	PASS
		2480	0.69	≤30	PASS

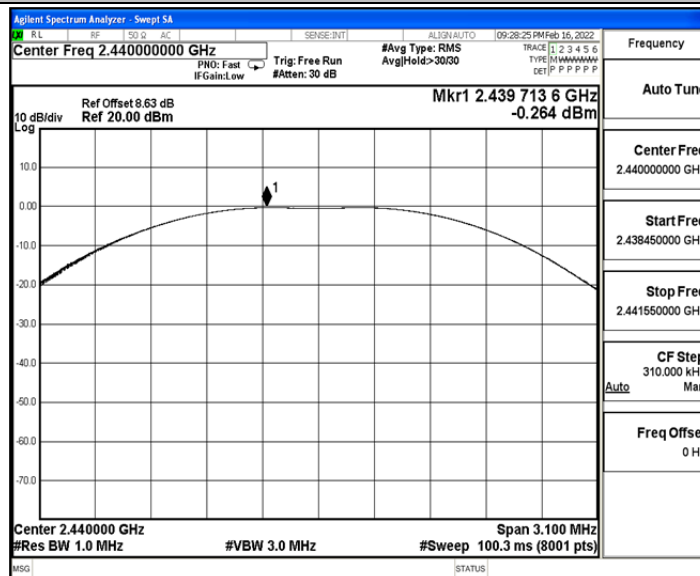


Test Graphs

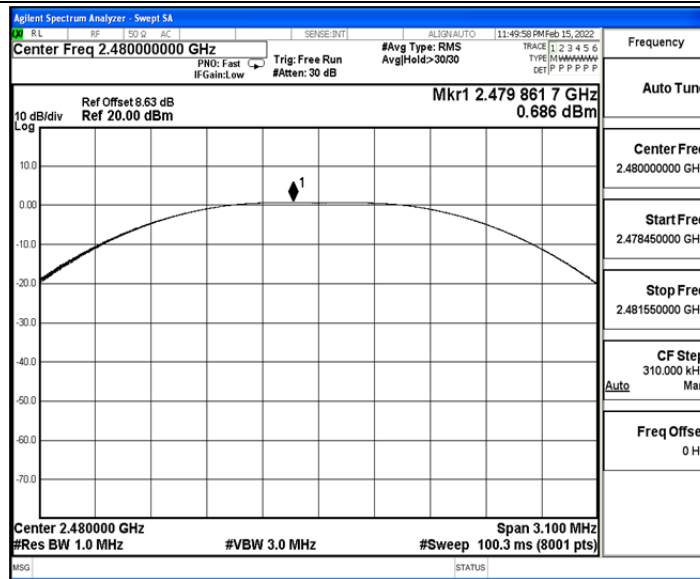
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.3 Maximum power spectral density

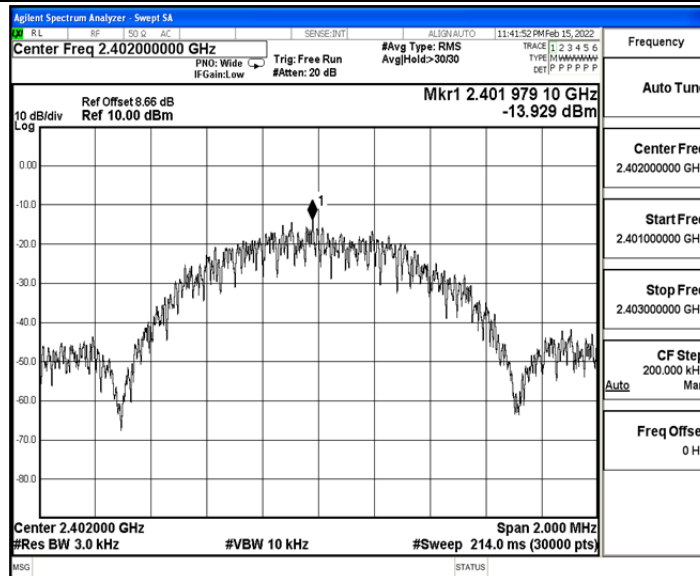
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.93	≤8.00	PASS
		2440	-12.49	≤8.00	PASS
		2480	-14.09	≤8.00	PASS

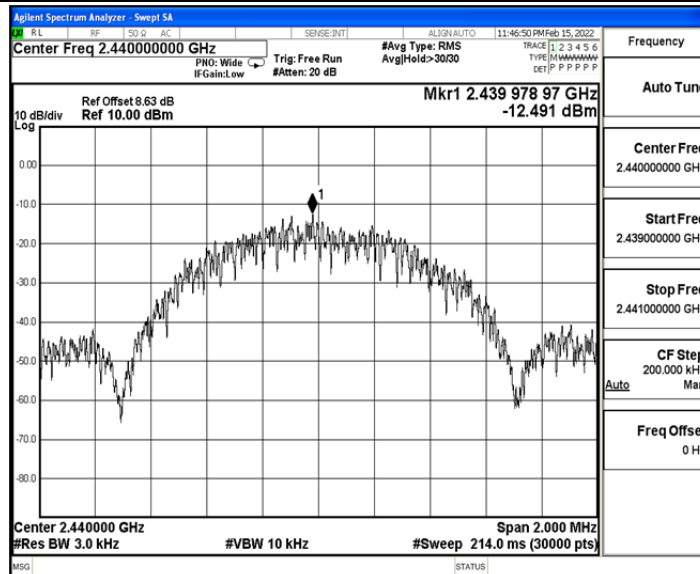


Test Graphs

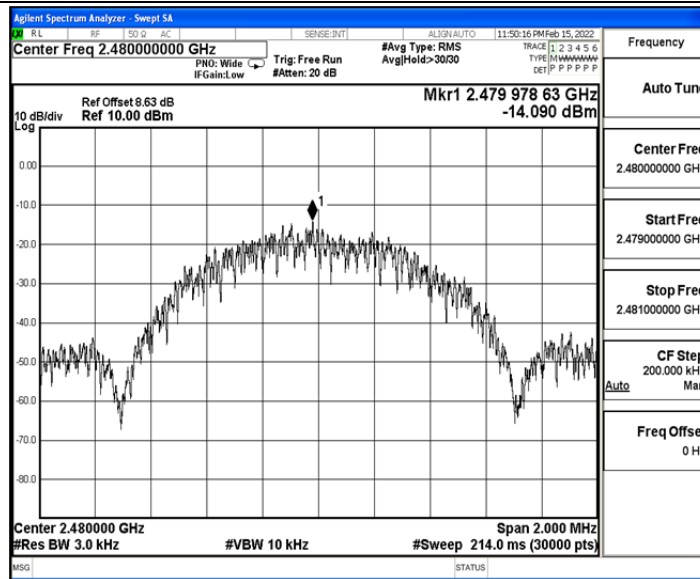
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480





B.4 Band edge measurements

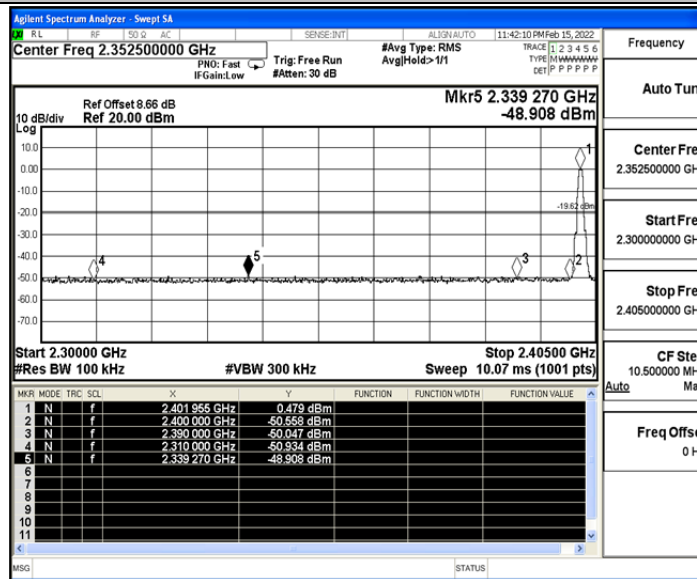
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.38	-48.91	≤ -19.62	PASS
		High	2480	0.30	-47.74	≤ -19.7	PASS

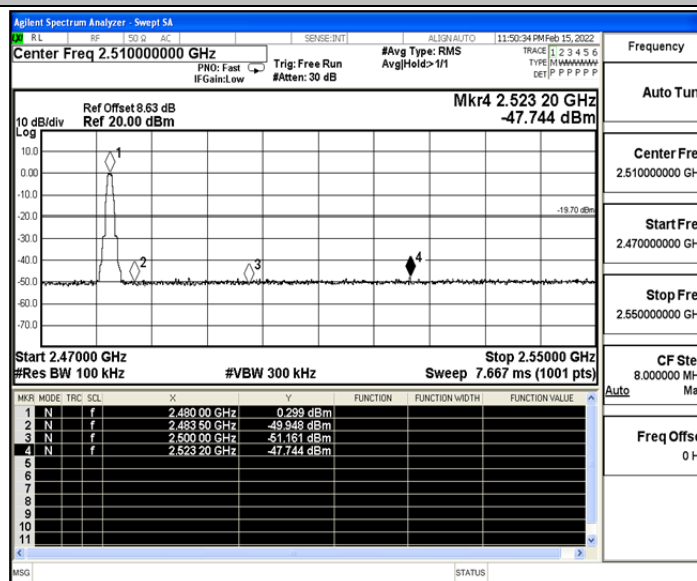


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480





B.5 Conducted Spurious Emission

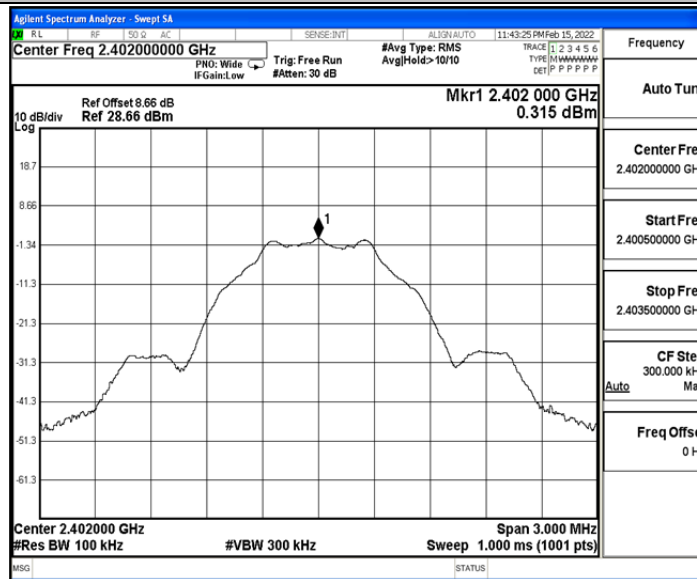
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.32	0.32	---	PASS
			30~1000	0.32	-60.16	≤ -19.68	PASS
			1000~26500	0.32	-46.24	≤ -19.68	PASS
		2440	Reference	1.71	1.71	---	PASS
			30~1000	1.71	-60.36	≤ -18.29	PASS
			1000~26500	1.71	-46.33	≤ -18.29	PASS
		2480	Reference	0.16	0.16	---	PASS
			30~1000	0.16	-60.35	≤ -19.84	PASS
			1000~26500	0.16	-45.79	≤ -19.84	PASS

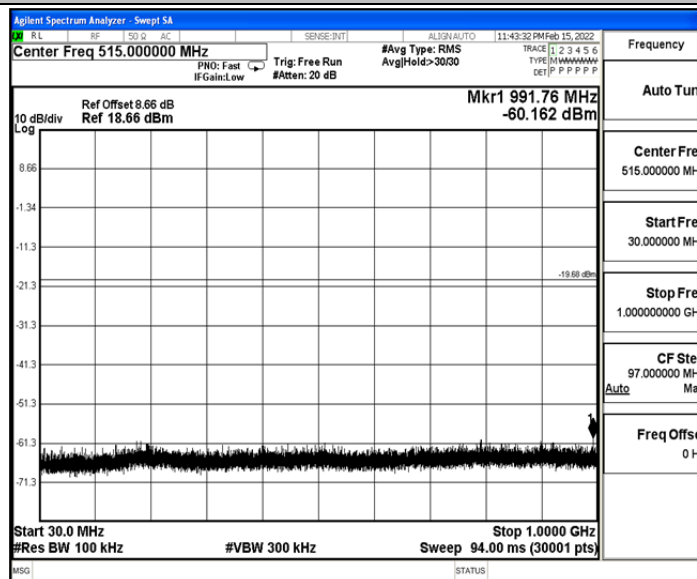


Test Graphs

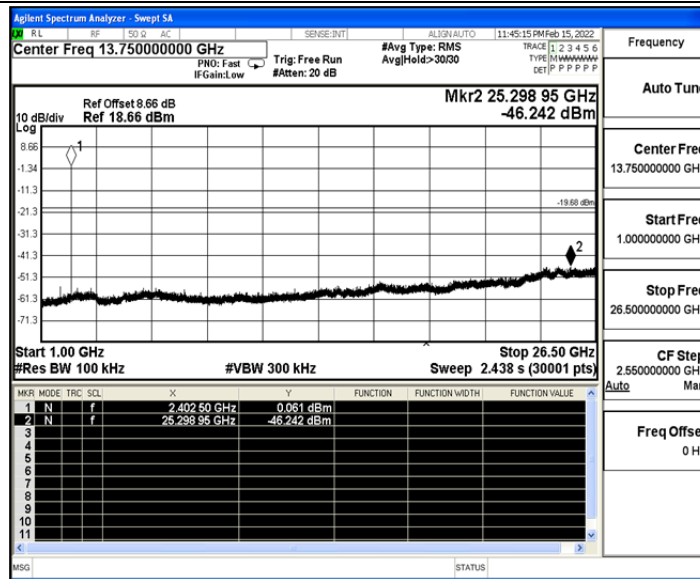
BLE_1M_Ant1_2402_0~Reference



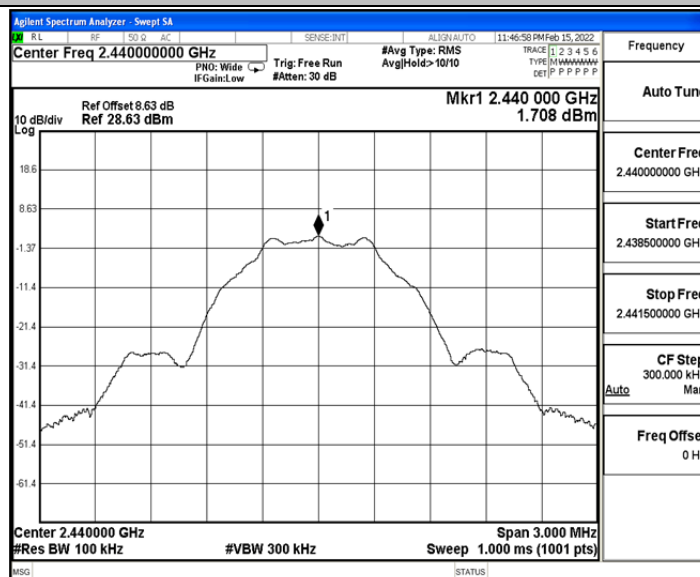
BLE_1M_Ant1_2402_30~1000



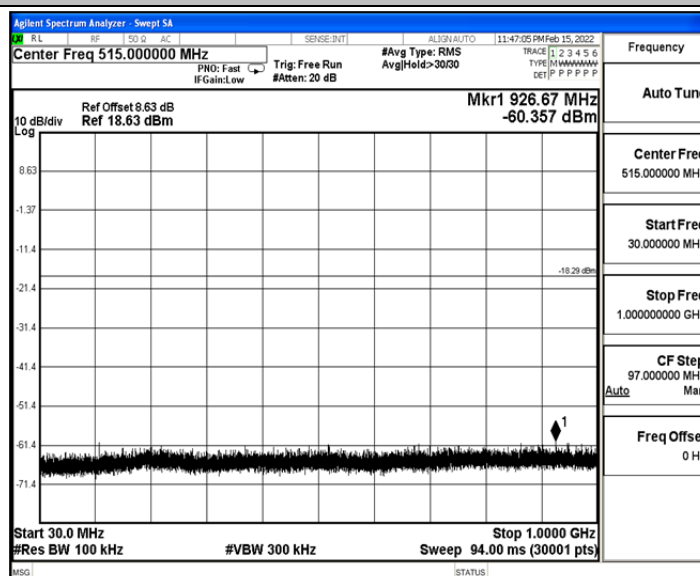
BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference

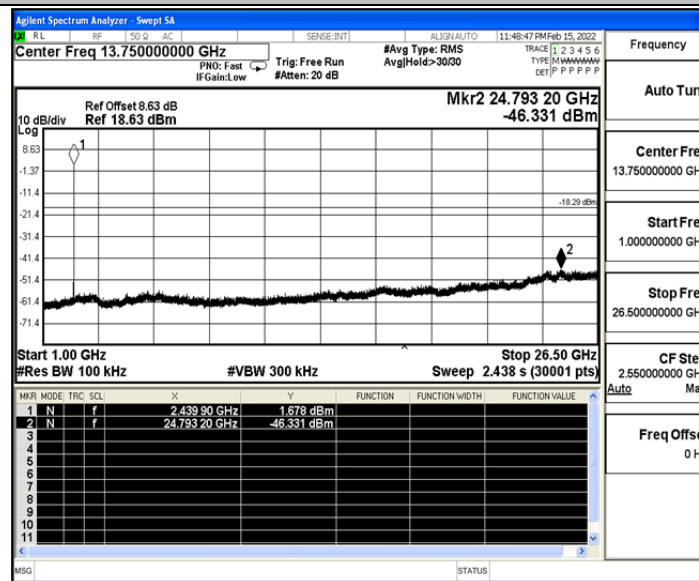


BLE_1M_Ant1_2440_30~1000

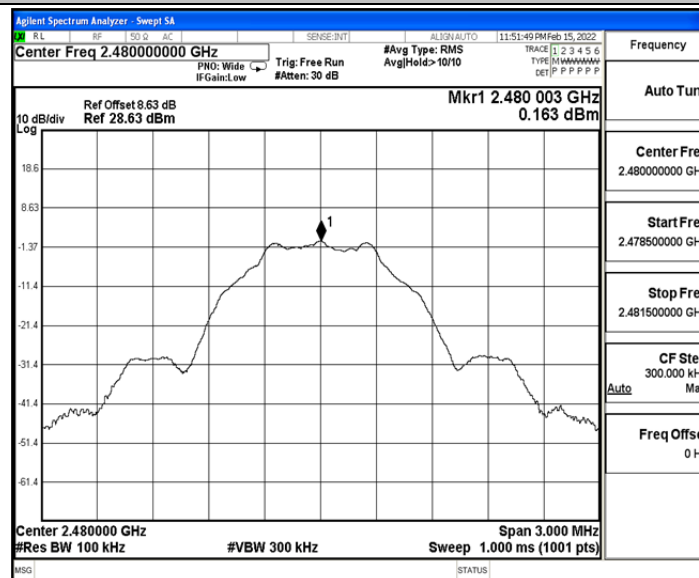




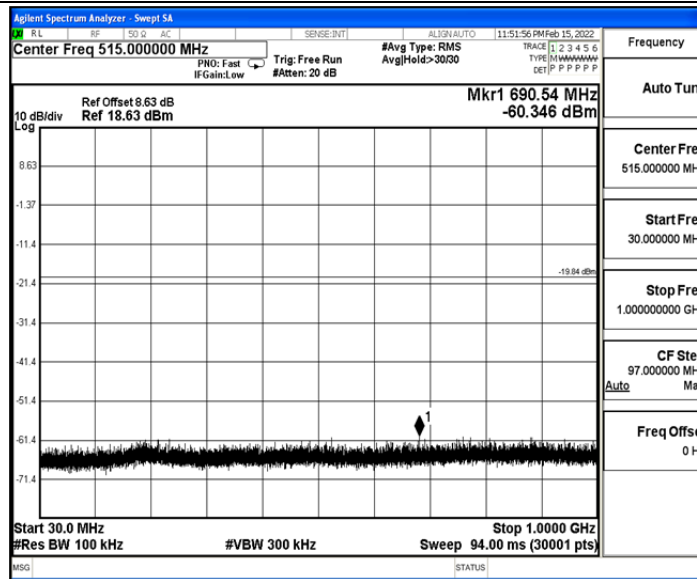
BLE_1M_Ant1_2440_1000~26500



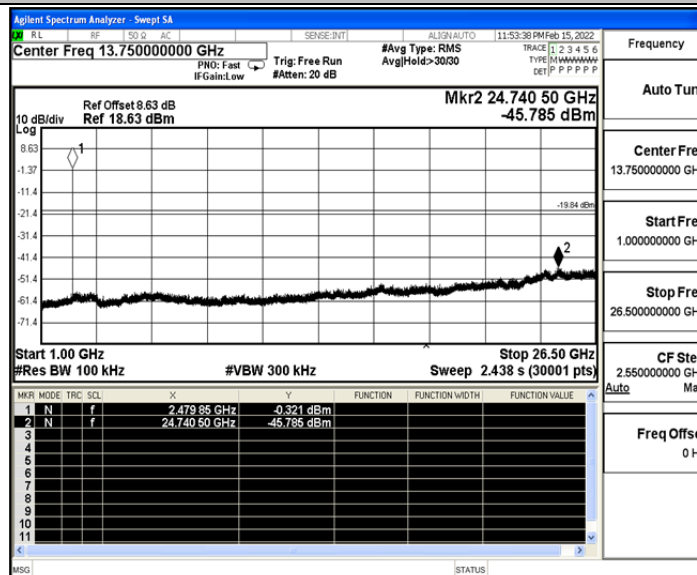
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500





B.6 Duty Cycle

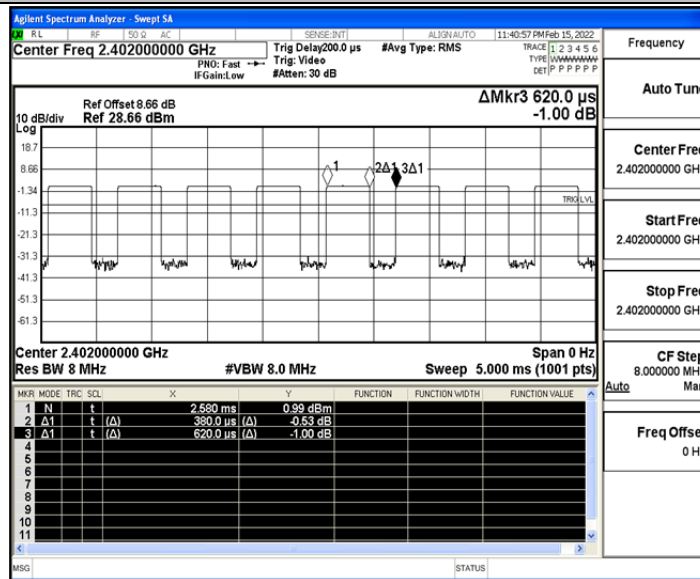
Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.62	0.6129	61.29	2.13	---	---
		2440	0.38	0.63	0.6032	60.32	2.20	---	---
		2480	0.38	0.63	0.6032	60.32	2.20	---	---

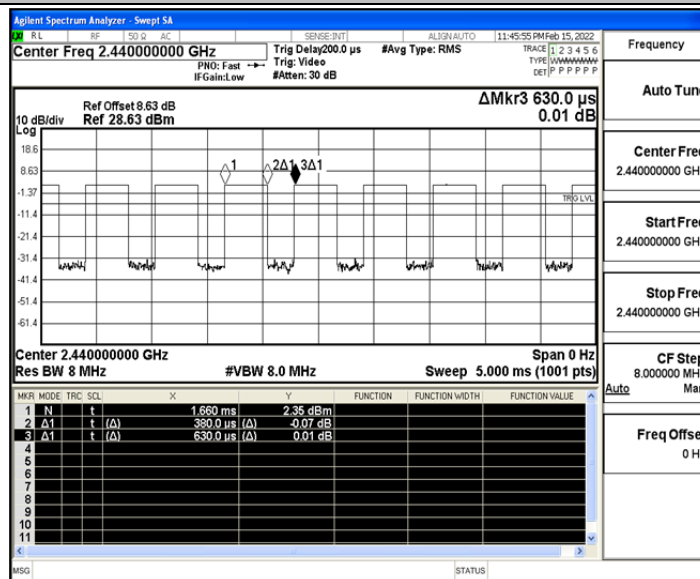


Test Graphs

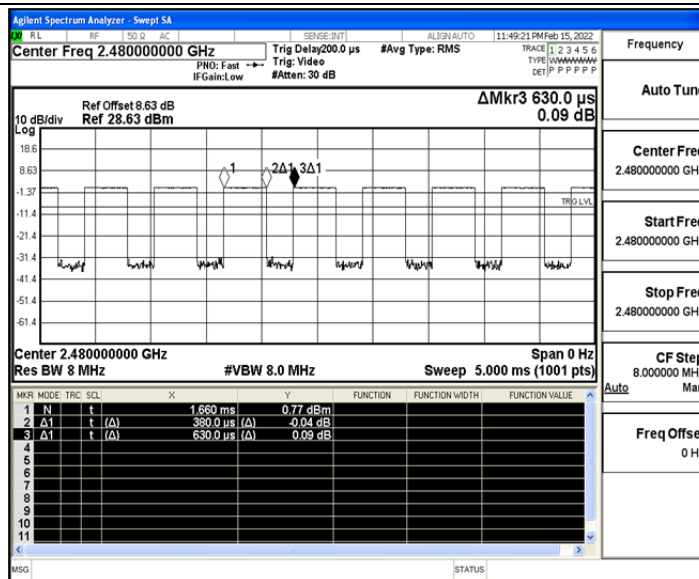
BLE_1M_Ant1_2402



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	-47.53	≤-41.20	47.67	≤54	PASS
				AV	2380.220	-46.83	≤-41.20	48.37	≤54	PASS
				AV	2390.000	-47.19	≤-41.20	48.01	≤54	PASS
				Peak	2310.000	-38.33	≤-21.20	56.87	≤74	PASS
				Peak	2372.450	-36.17	≤-21.20	59.03	≤74	PASS
				Peak	2390.000	-39	≤-21.20	56.20	≤74	PASS
		High	2480	AV	2483.500	-46.27	≤-41.20	48.93	≤54	PASS
				AV	2499.360	-46.07	≤-41.20	49.13	≤54	PASS
				AV	2500.000	-46.54	≤-41.20	48.66	≤54	PASS
				Peak	2483.500	-37.78	≤-21.20	57.42	≤74	PASS
				Peak	2496.960	-36.35	≤-21.20	58.85	≤74	PASS
				Peak	2500.000	-38.6	≤-21.20	56.60	≤74	PASS

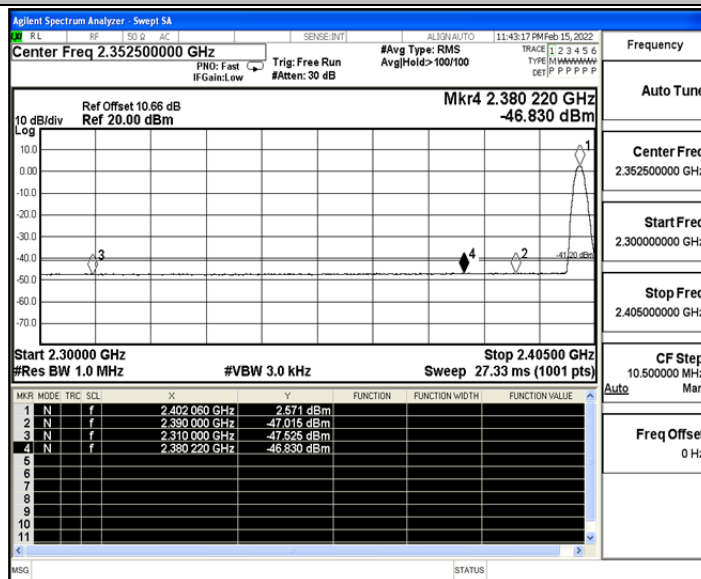
Note:

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.

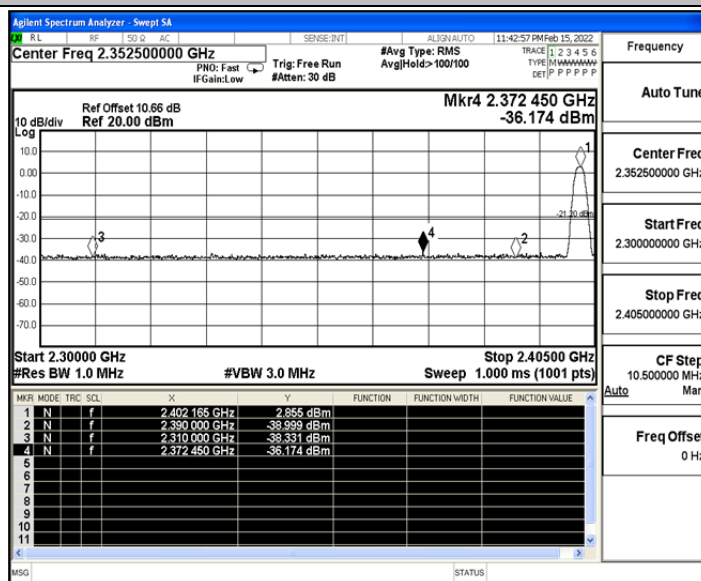


Test Graphs

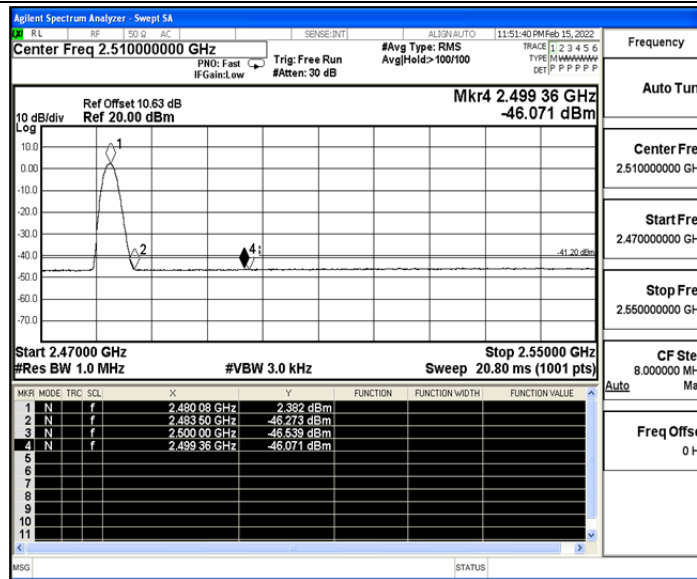
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

