



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: 10inch tablet pc

Test Model: YY-F1010

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	monkey.Li Monkey Li
Supervised by:	LiHuan Li Huan





B.1 DTS Bandwidth

Test Result

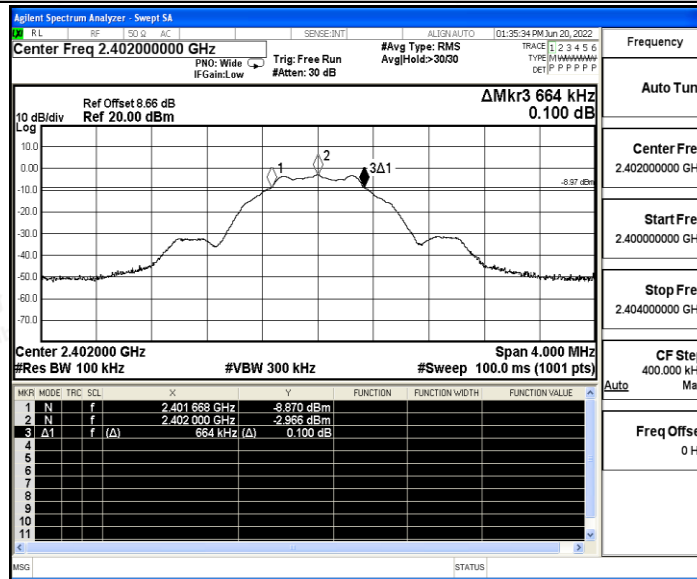
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant	2402	0.664	2401.668	2402.332	0.5	PASS
		2440	0.668	2439.664	2440.332	0.5	PASS
		2480	0.668	2479.664	2480.332	0.5	PASS



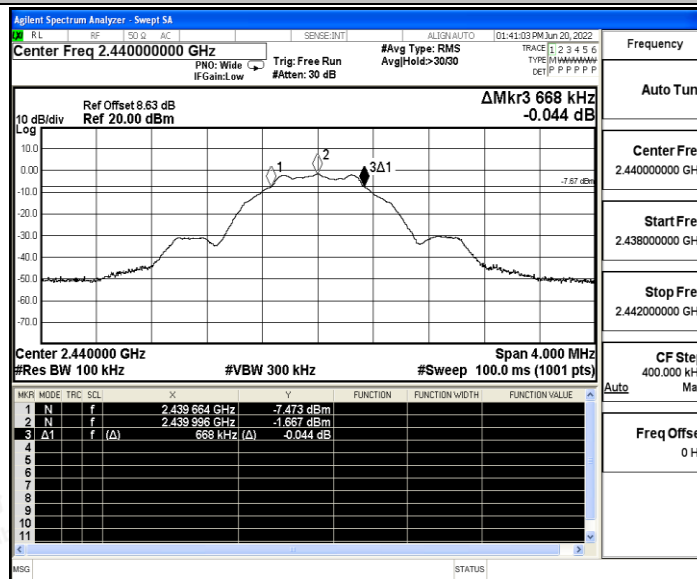


Test Graphs

BLE_Ant_2402

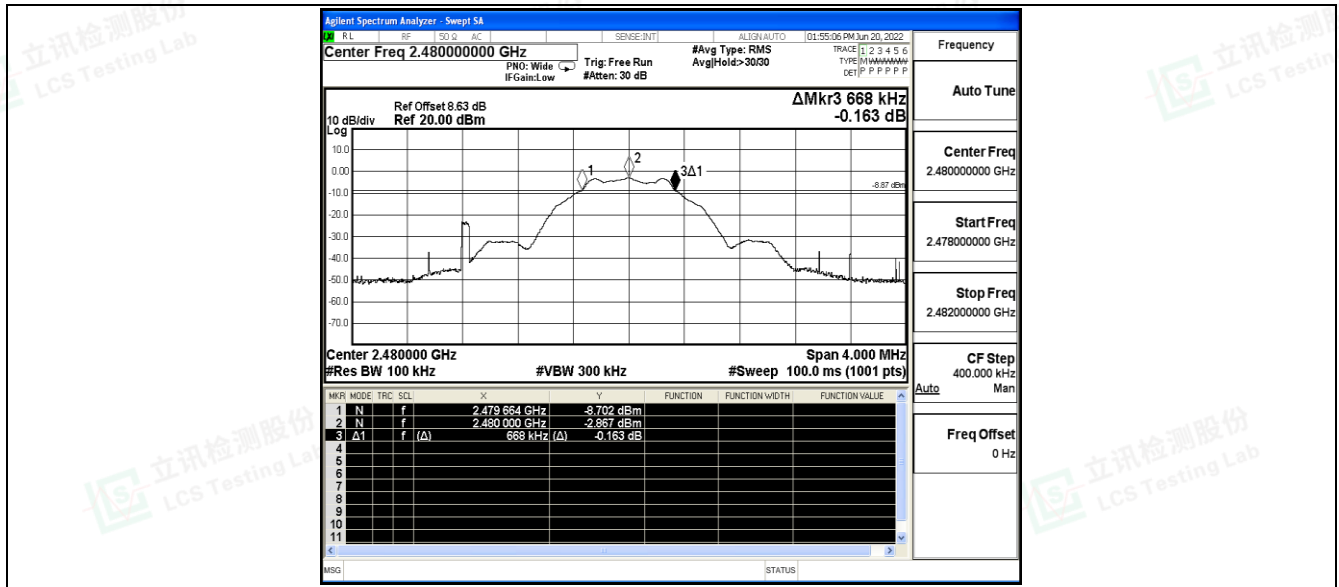


BLE_Ant_2440



BLE_Ant_2480







B.2 Maximum peak conducted output power

Test Result

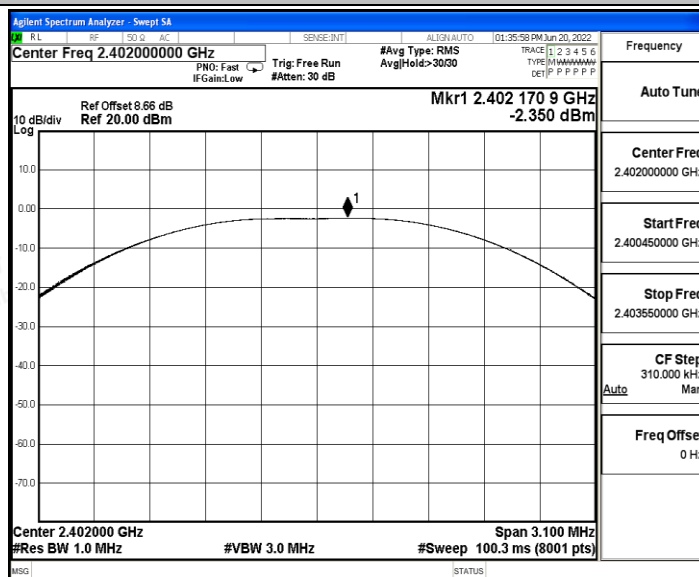
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	-2.35	≤30	PASS
		2440	-1.11	≤30	PASS
		2480	-2.38	≤30	PASS



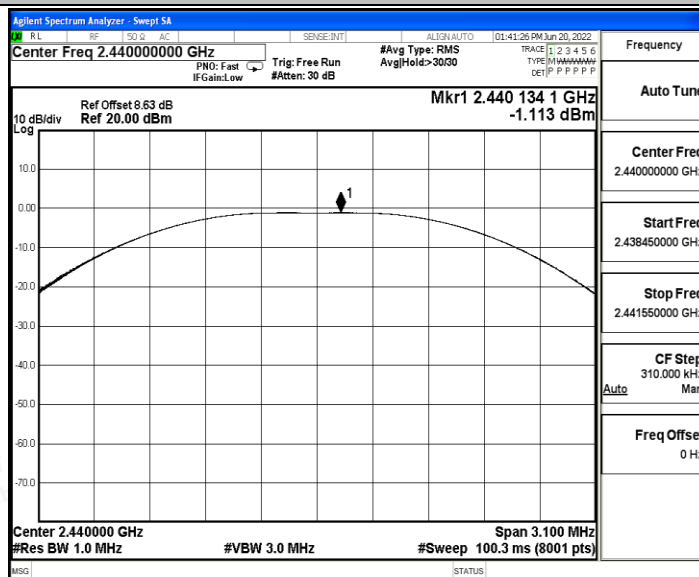


Test Graphs

BLE_Ant_2402

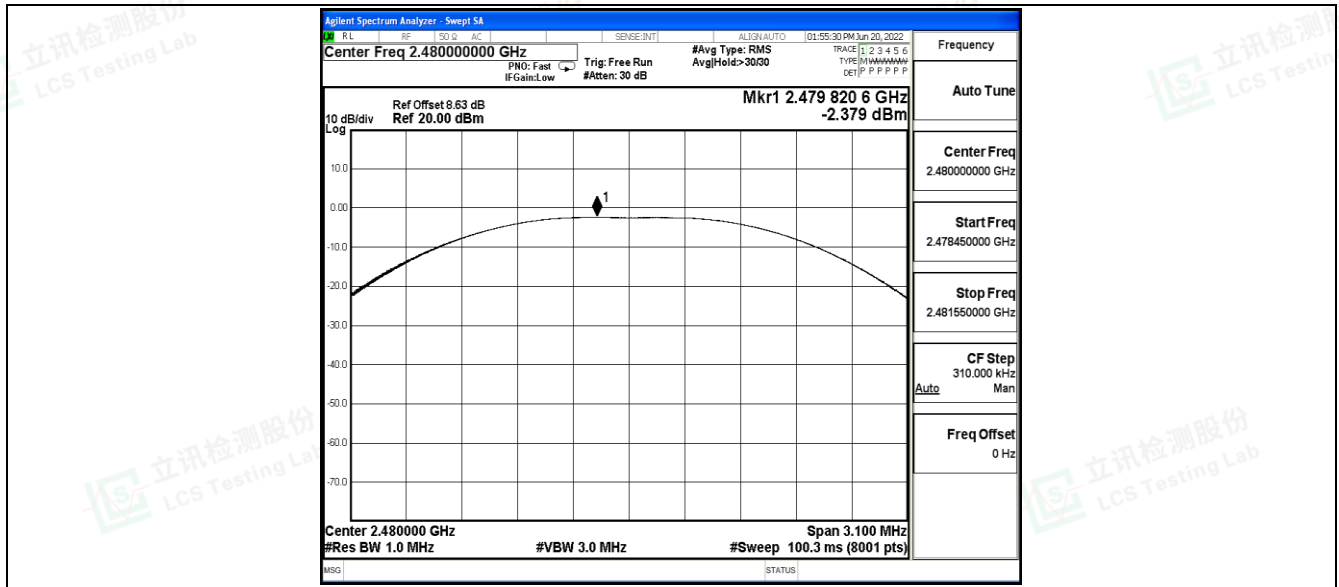


BLE_Ant_2440



BLE_Ant_2480







B.3 Maximum power spectral density

Test Result

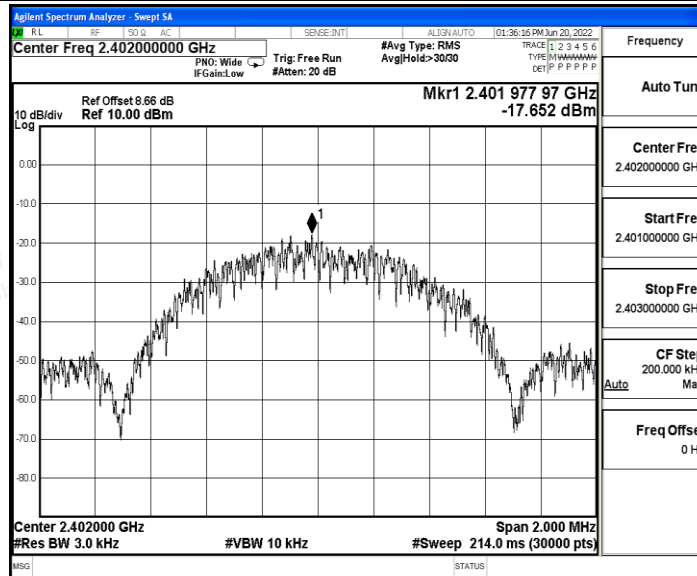
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant	2402	-17.65	≤8.00	PASS
		2440	-15.97	≤8.00	PASS
		2480	-17.22	≤8.00	PASS



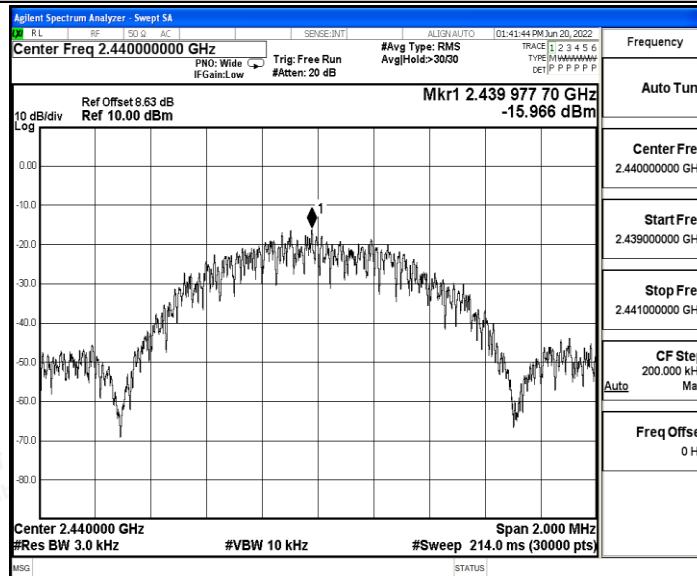


Test Graphs

BLE_Ant_2402

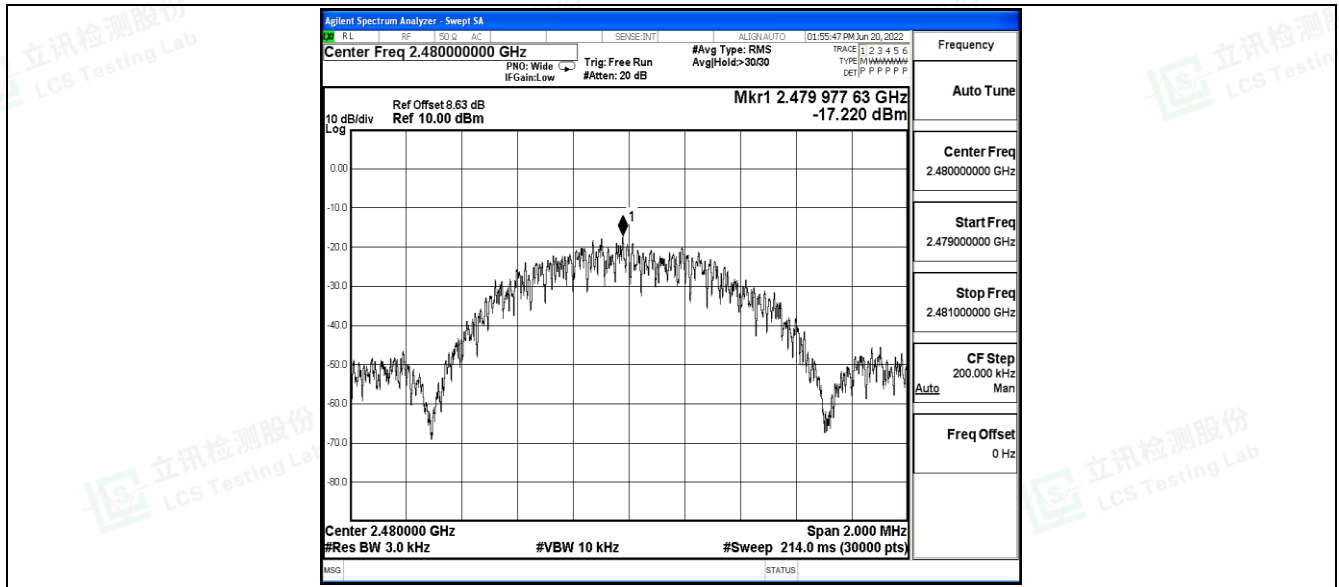


BLE_Ant_2440



BLE_Ant_2480







B.4 Band edge measurements

Test Result

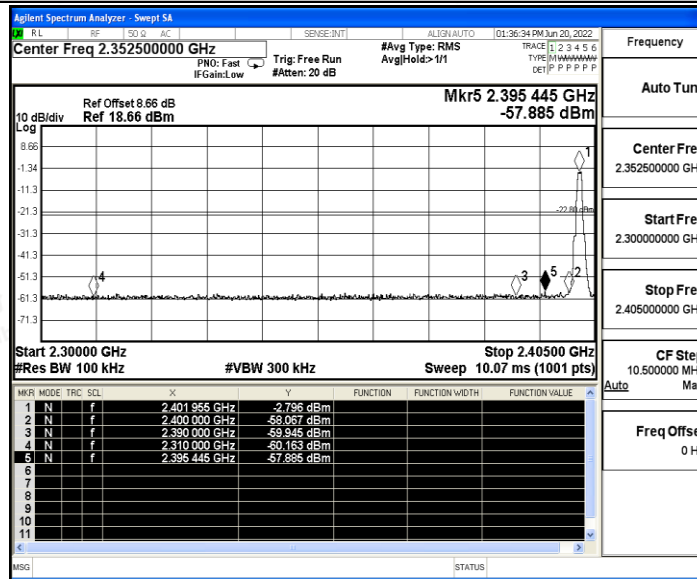
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	Low	2402	-2.80	-57.89	≤-22.8	PASS
		High	2480	-2.88	-57.34	≤-22.88	PASS



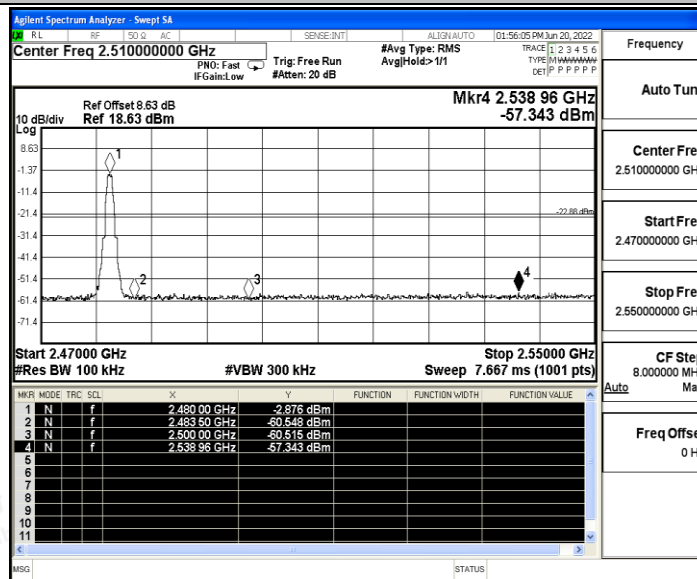


Test Graphs

BLE_Ant_Low_2402



BLE_Ant_High_2480





B.5 Conducted Spurious Emission

Test Result

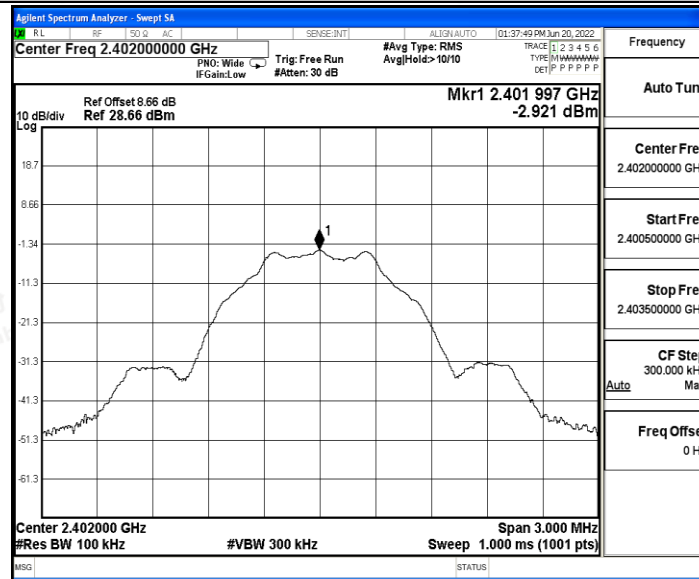
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	Reference	-2.92	-2.92	---	PASS
			30~1000	-2.92	-60.61	≤-22.92	PASS
			1000~26500	-2.92	-45.42	≤-22.92	PASS
		2440	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-57.77	≤-21.65	PASS
			1000~26500	-1.65	-45.72	≤-21.65	PASS
		2480	Reference	-2.94	-2.94	---	PASS
			30~1000	-2.94	-57.07	≤-22.94	PASS
			1000~26500	-2.94	-44.57	≤-22.94	PASS



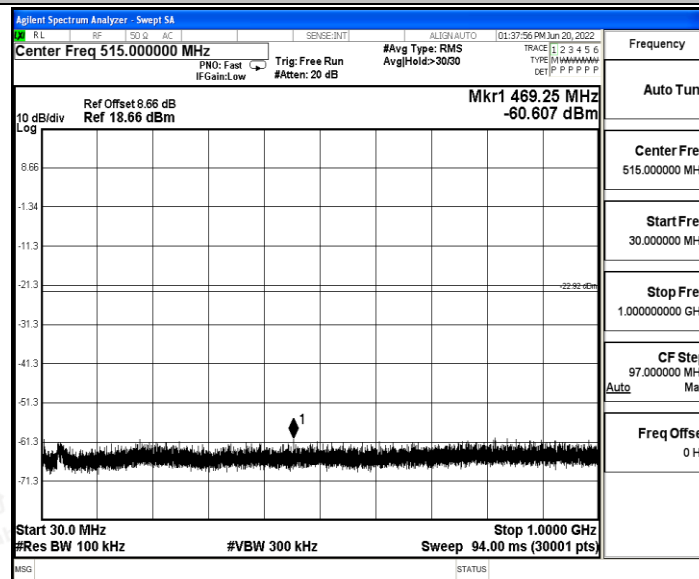


Test Graphs

BLE_Ant_2402_0~Reference

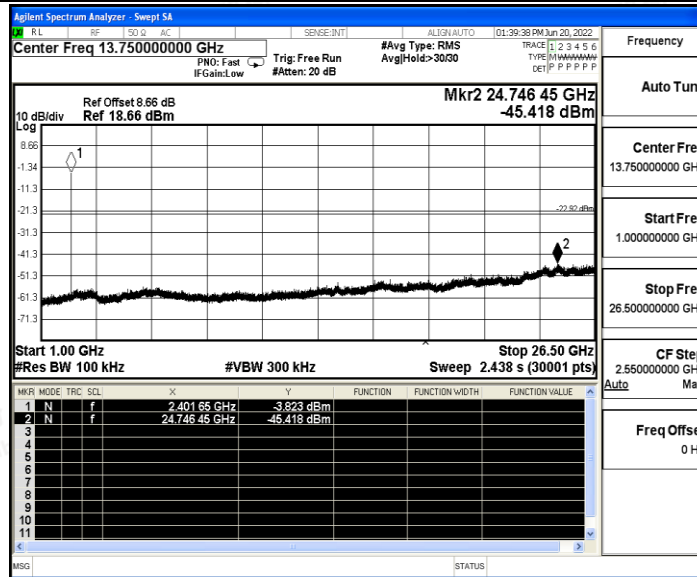


BLE_Ant_2402_30~1000

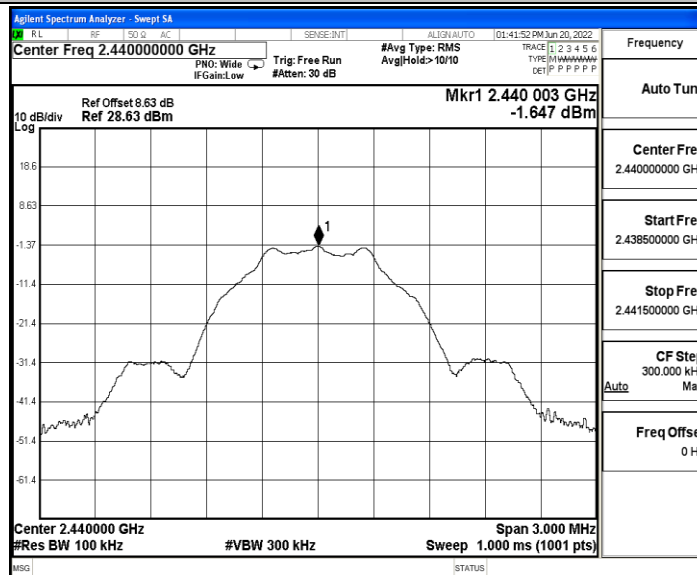


BLE_Ant_2402_1000~26500



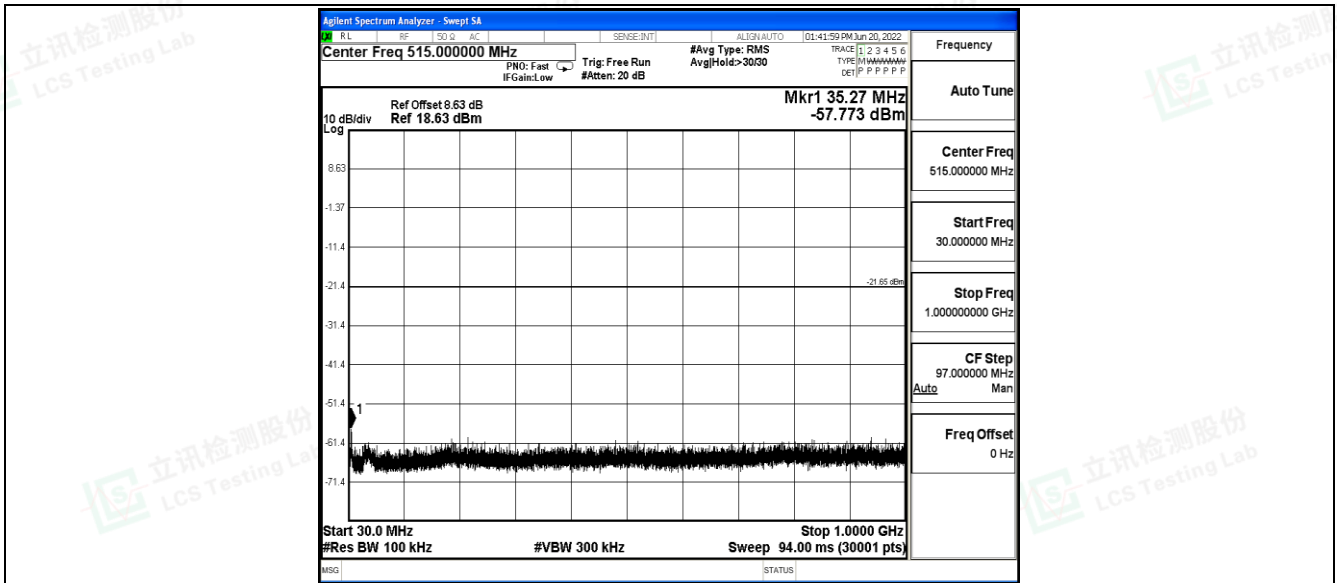


BLE_Ant_2440_0~Reference

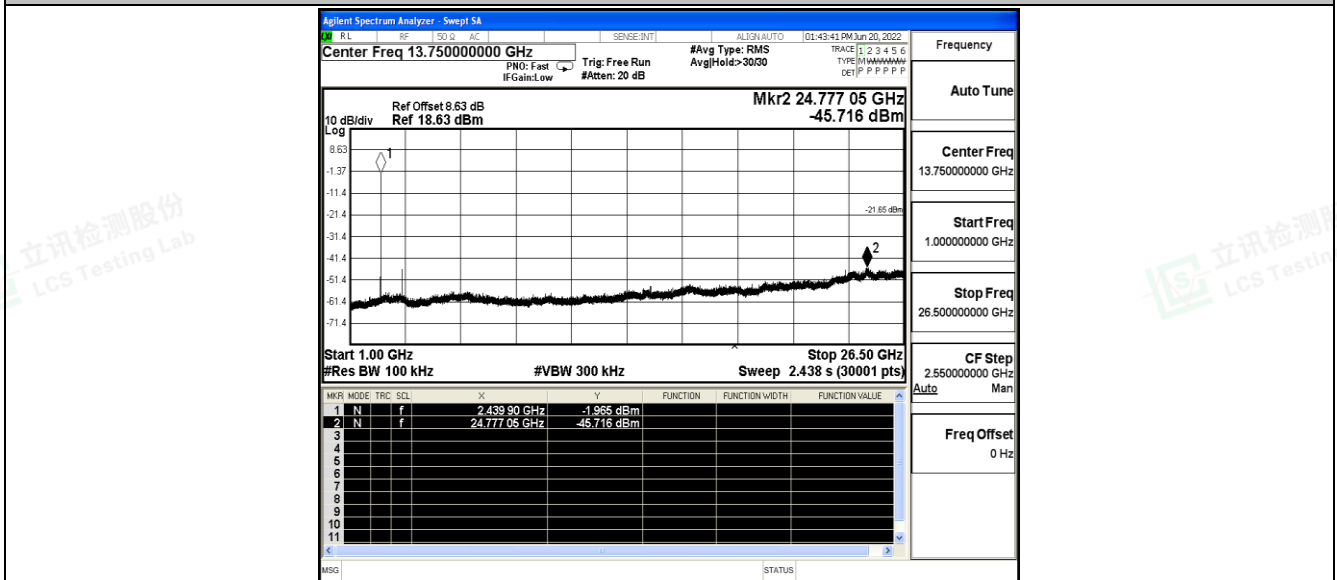


BLE_Ant_2440_30~1000



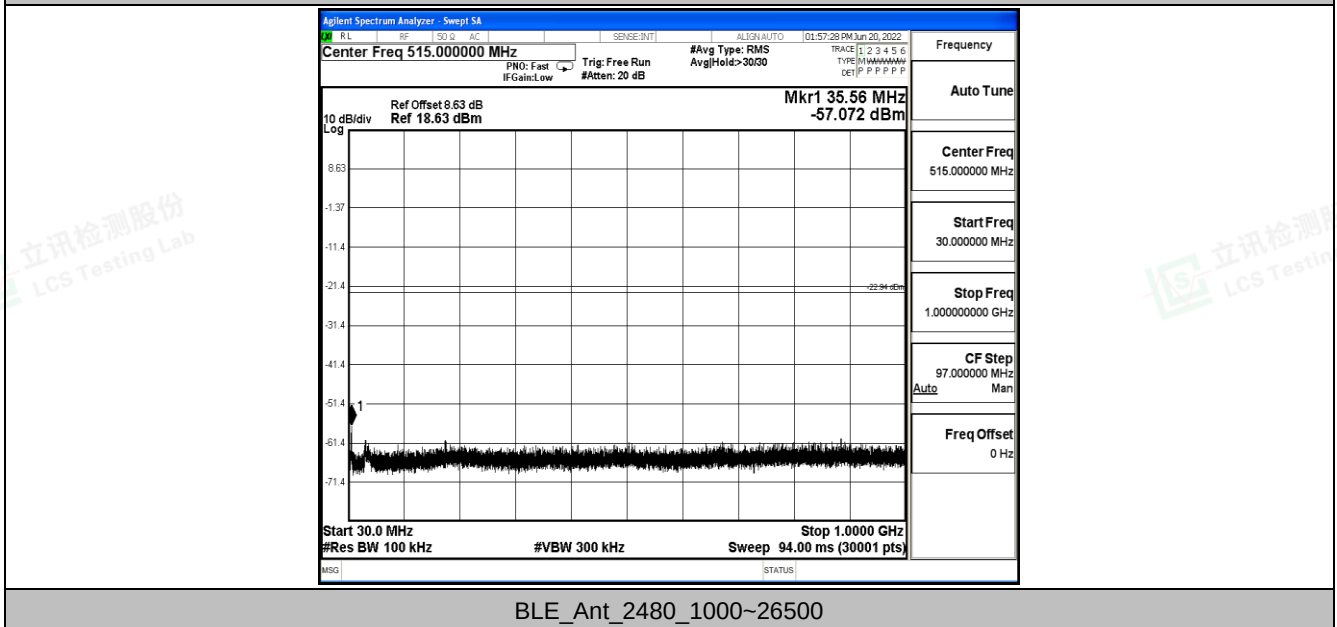
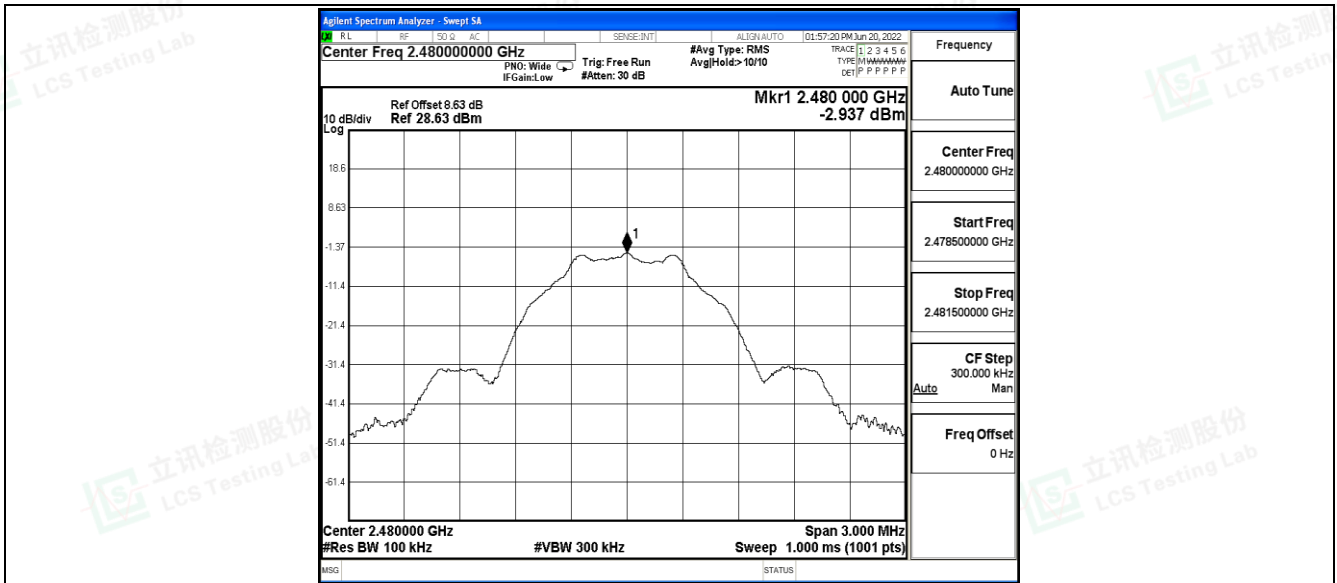


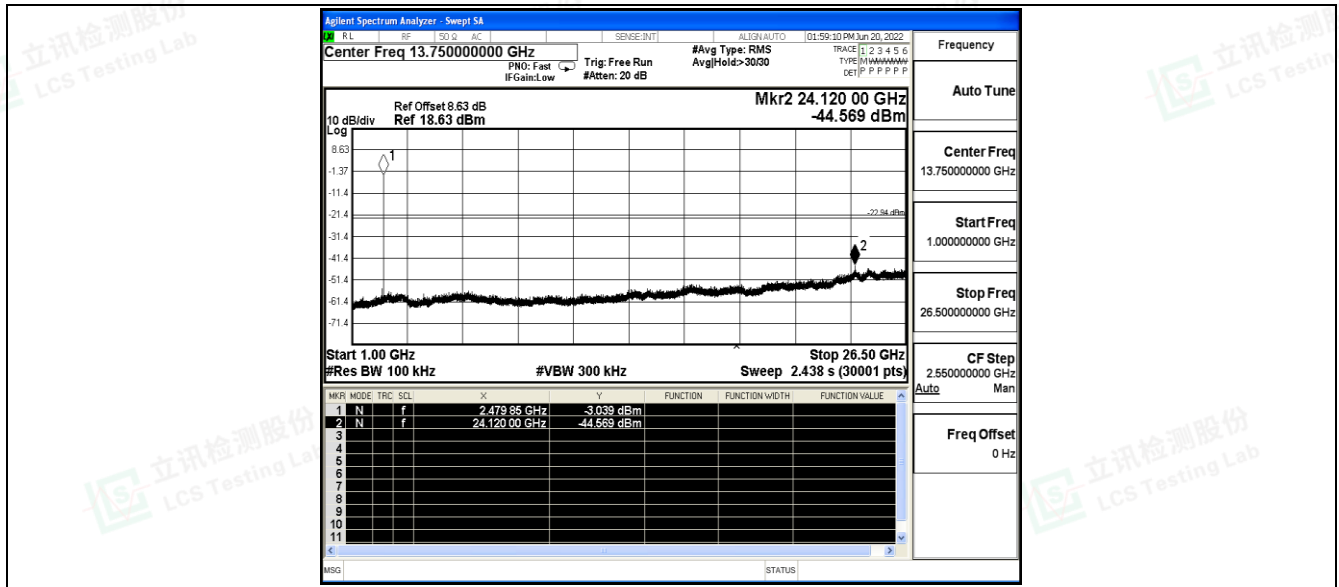
BLE_Ant_2440_1000~26500



BLE_Ant_2480_0~Reference









B.6 Duty Cycle

Test Result

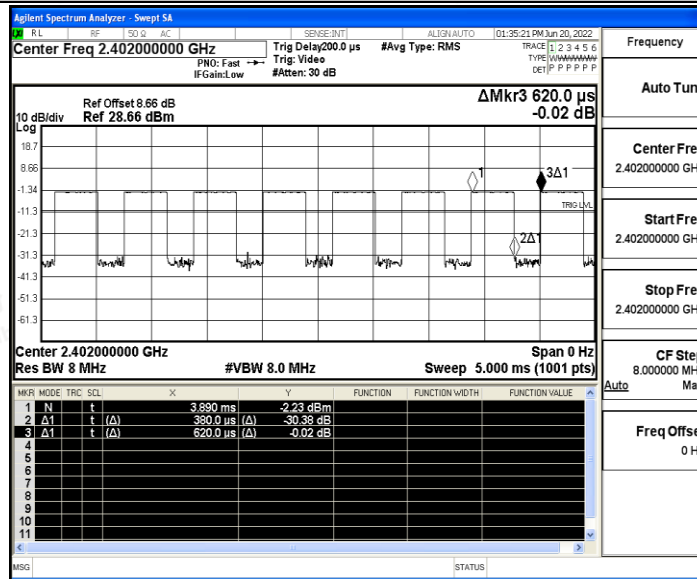
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE	Ant	2402	0.38	0.62	0.6129	61.29	2.13	2.63	---	---
		2440	0.38	0.63	0.6032	60.32	2.20	2.63	---	---
		2480	0.38	0.62	0.6129	61.29	2.13	2.63	---	---



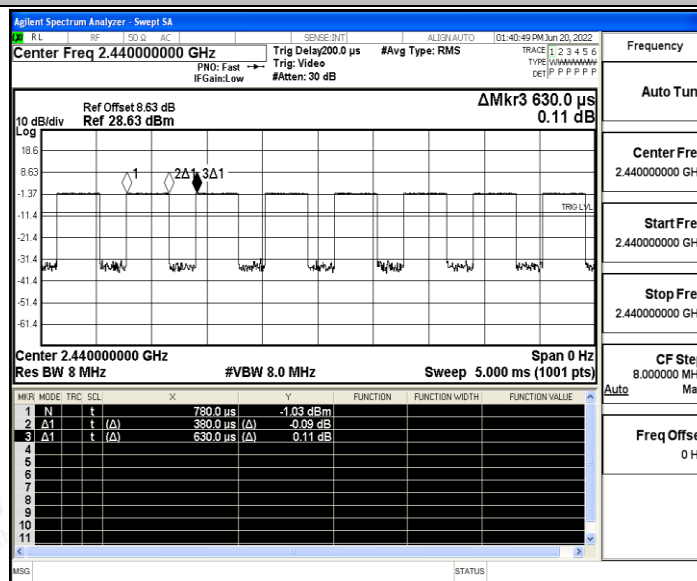


Test Graphs

BLE_Ant_2402

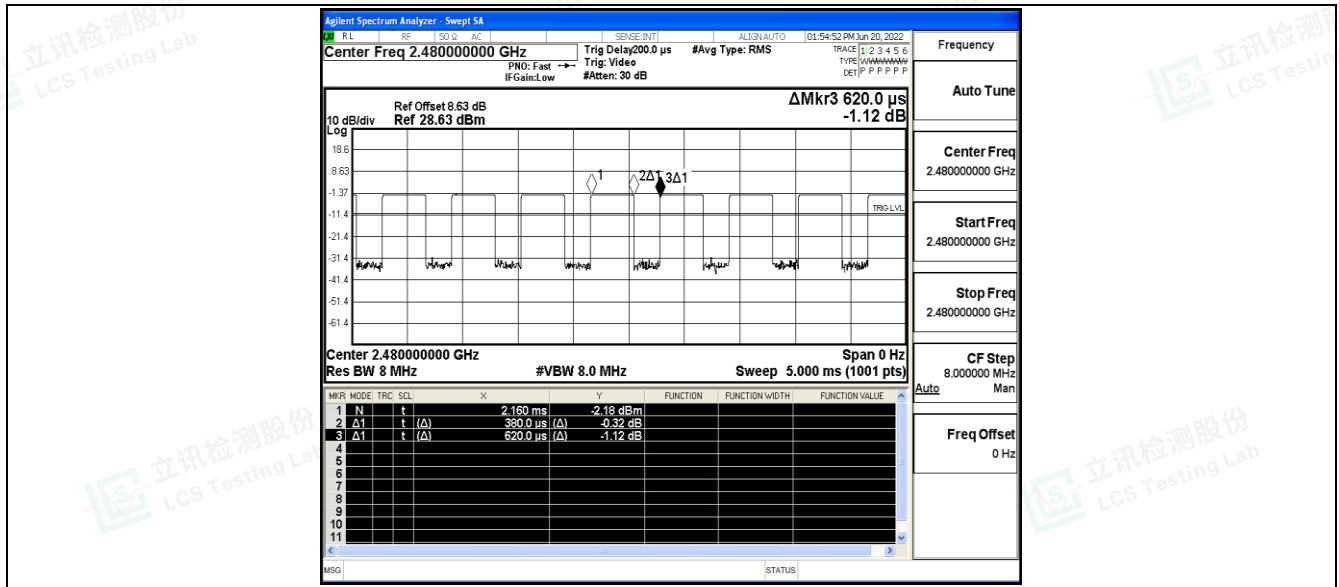


BLE_Ant_2440



BLE_Ant_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	Ant	Low	2402	AV	2310.000	-56.9	≤-41.20	38.30	≤54	PASS
				AV	2386.205	-56.31	≤-41.20	38.89	≤54	PASS
				AV	2390.000	-56.6	≤-41.20	38.60	≤54	PASS
				Peak	2310.000	-48.35	≤-21.20	46.85	≤74	PASS
				Peak	2388.515	-45.83	≤-21.20	49.37	≤74	PASS
				Peak	2390.000	-48.22	≤-21.20	46.98	≤74	PASS
		High	2480	AV	2483.500	-54.45	≤-41.20	40.75	≤54	PASS
				AV	2483.520	-54.45	≤-41.20	40.75	≤54	PASS
				AV	2500.000	-56.07	≤-41.20	39.13	≤54	PASS
				Peak	2483.500	-47.81	≤-21.20	47.39	≤74	PASS
				Peak	2497.840	-45.65	≤-21.20	49.55	≤74	PASS
				Peak	2500.000	-47.85	≤-21.20	47.35	≤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.

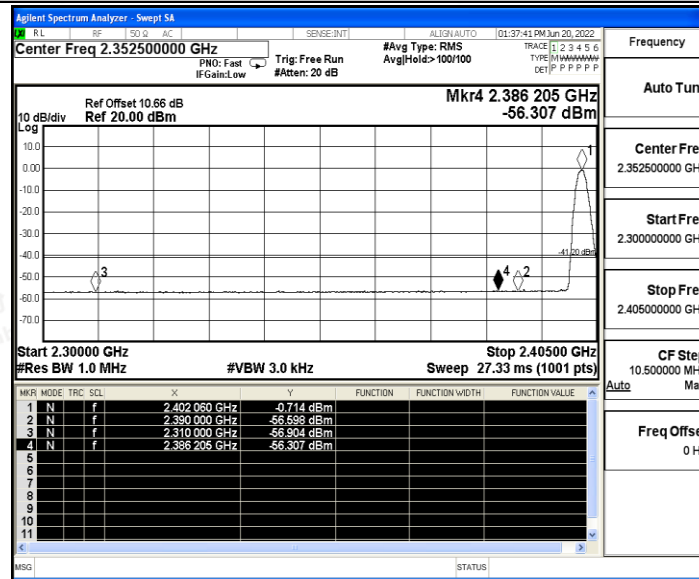


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Scan code to check authenticity

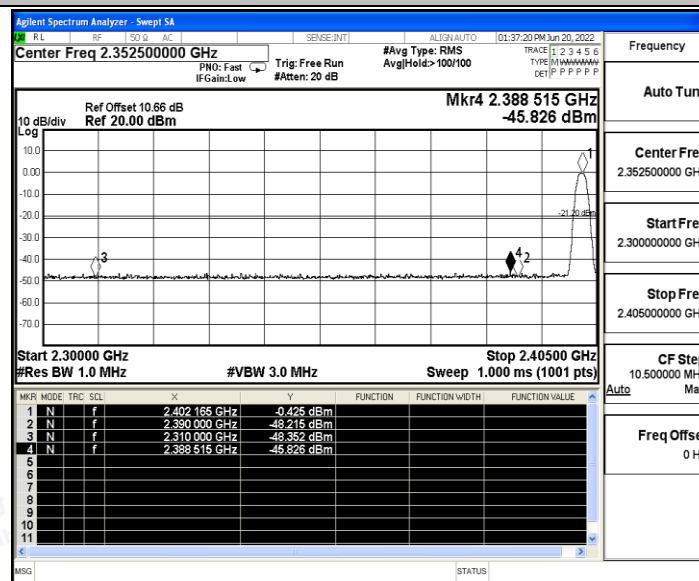


Test Graphs

BLE_Ant_Low_2402_AV

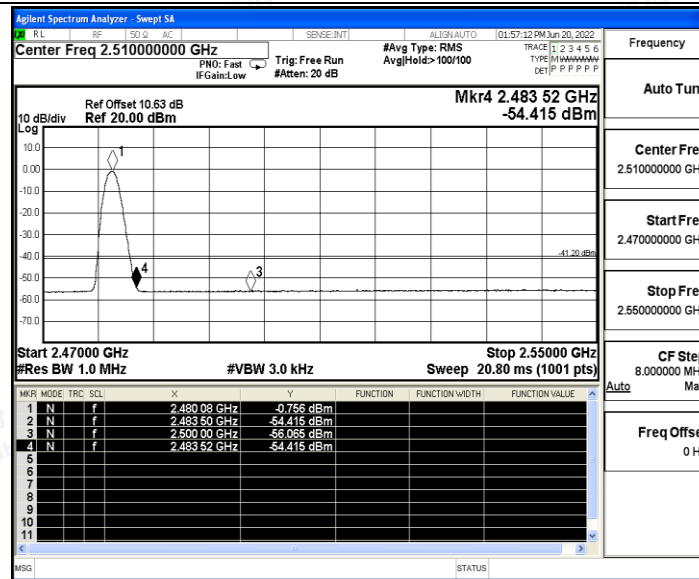


BLE_Ant_Low_2402_Peak



BLE_Ant_High_2480_AV





BLE_Ant_High_2480_Peak

