



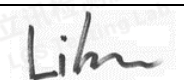
Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: LED PANEL LIGHT

Test Model: D8AX4309WWCR

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	 Nick Peng
Supervised by:	 Li Huan





A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.712	2401.624	2402.336	0.5	PASS
		2440	0.712	2439.628	2440.340	0.5	PASS
		2480	0.712	2479.628	2480.340	0.5	PASS

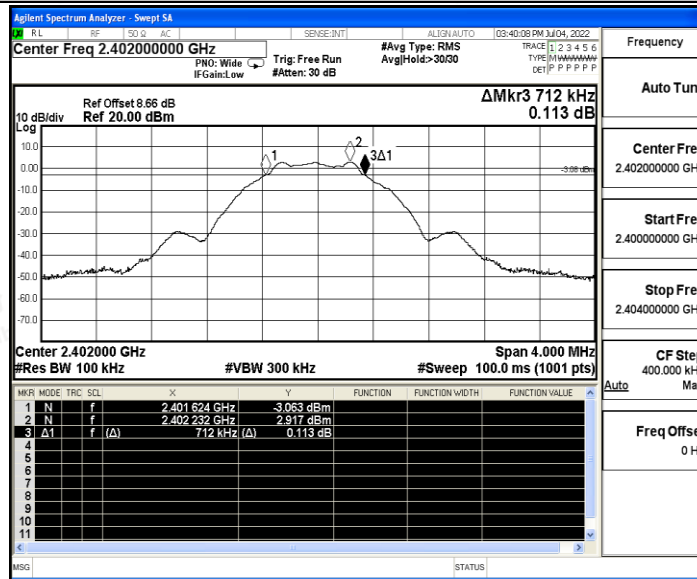


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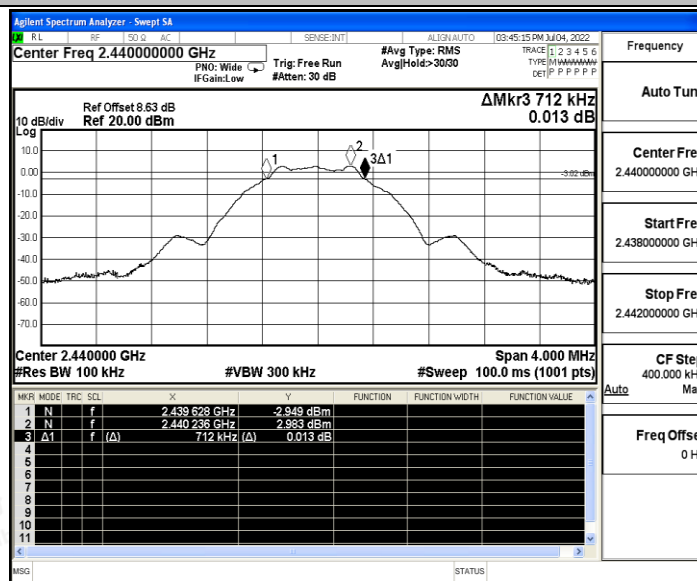


Test Graphs

BLE_1M_Ant1_2402

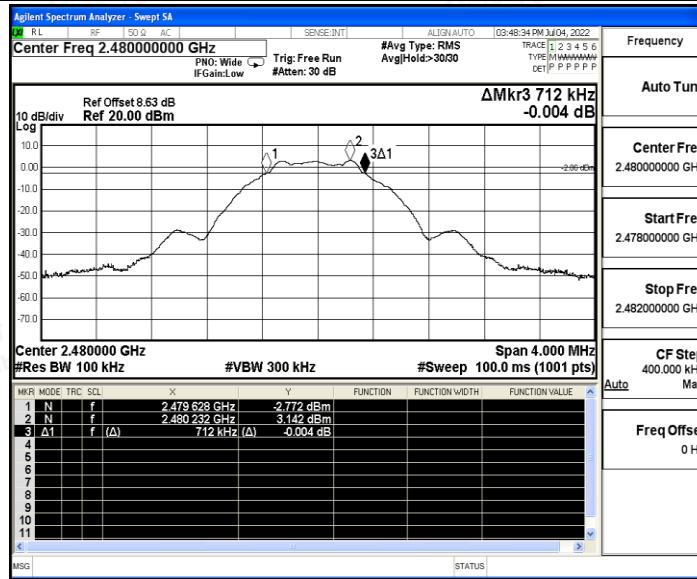


BLE_1M_Ant1_2440





BLE_1M_Ant1_2480



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A.2 Maximum conducted output power

Test Result

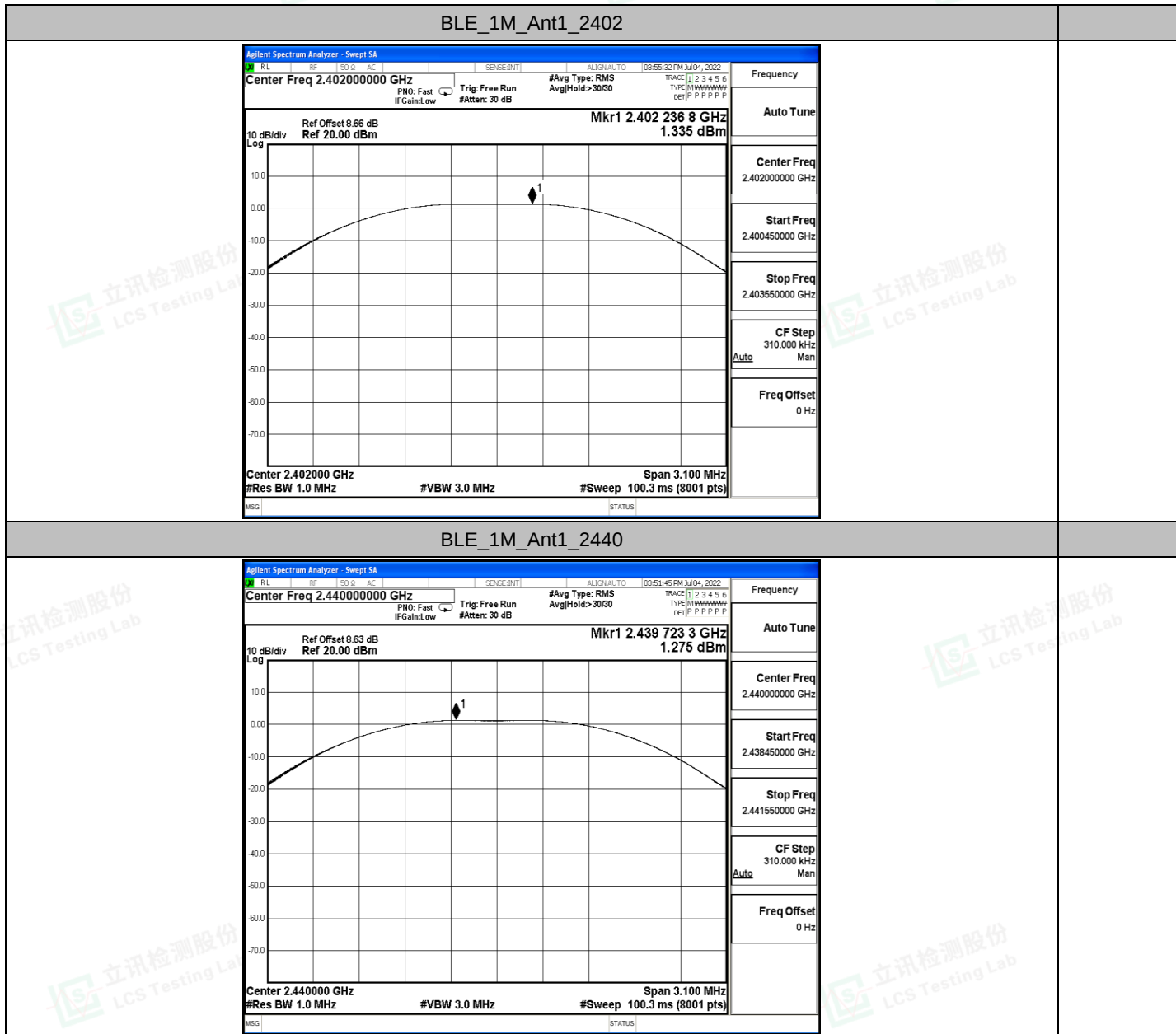
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.34	≤30	PASS
		2440	1.28	≤30	PASS
		2480	1.27	≤30	PASS



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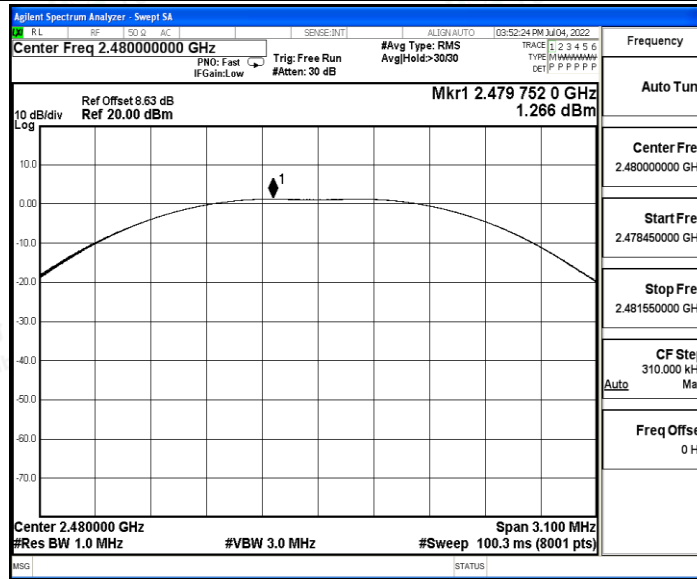


Test Graphs





BLE_1M_Ant1_2480





A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.73	≤8.00	PASS
		2440	-13.75	≤8.00	PASS
		2480	-13.82	≤8.00	PASS



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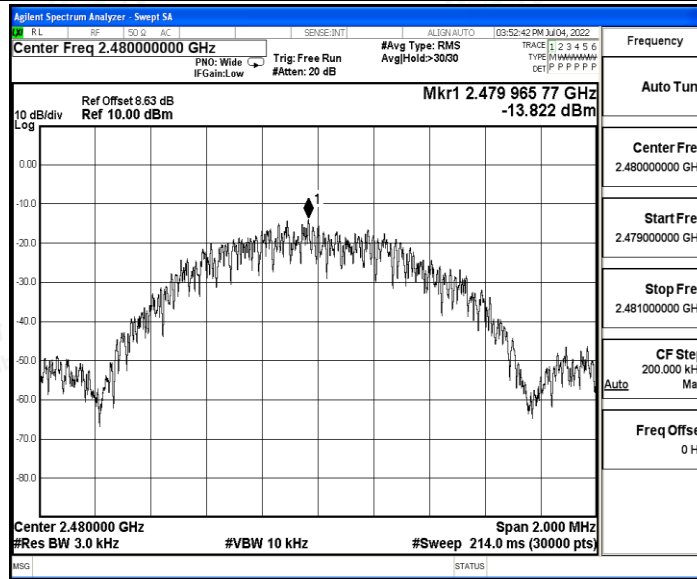


Test Graphs





BLE_1M_Ant1_2480



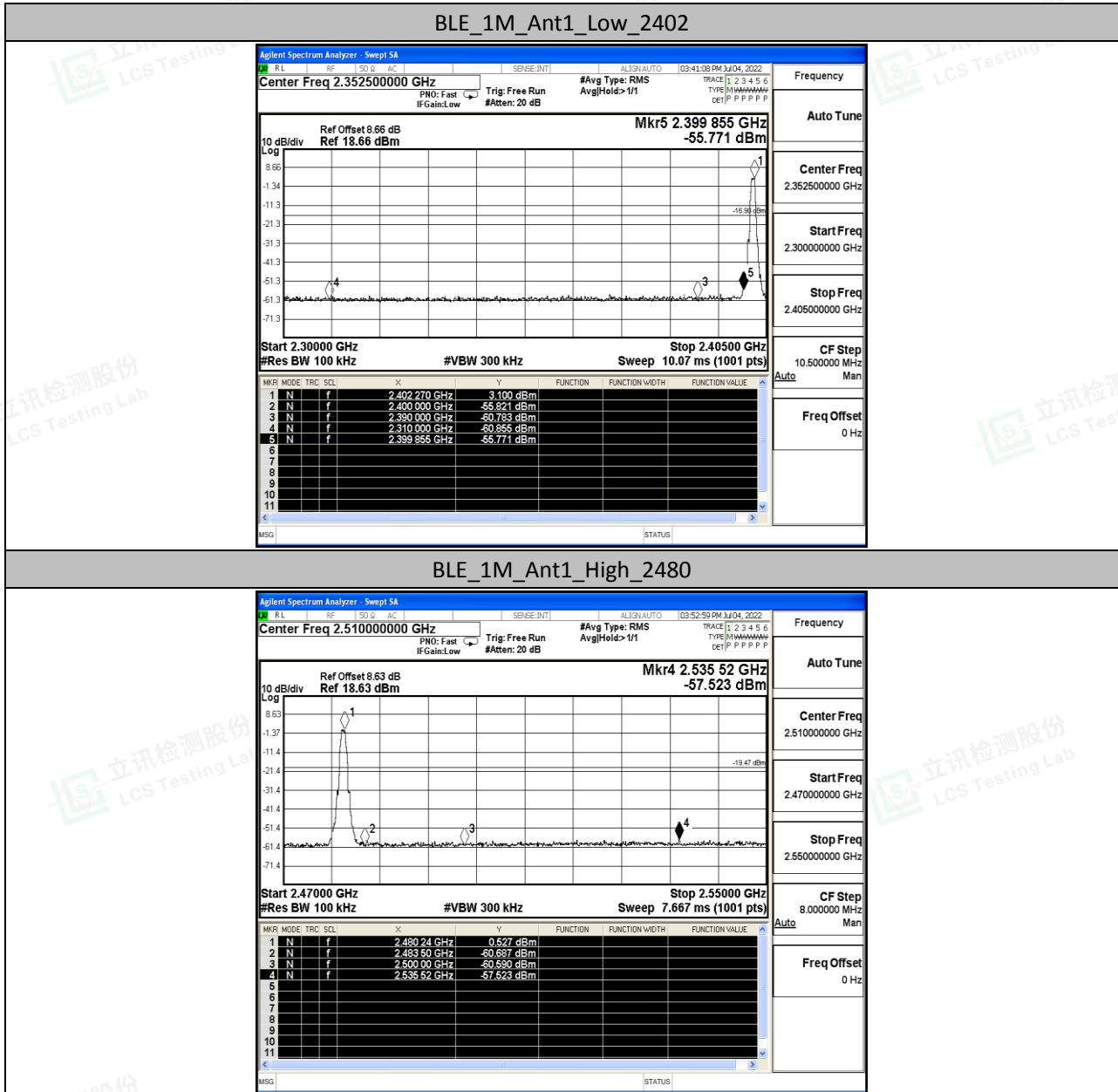


A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.10	-55.77	≤-16.9	PASS
		High	2480	0.53	-57.52	≤-19.47	PASS

Test Graphs





A.5 Conducted Spurious Emission

Test Result

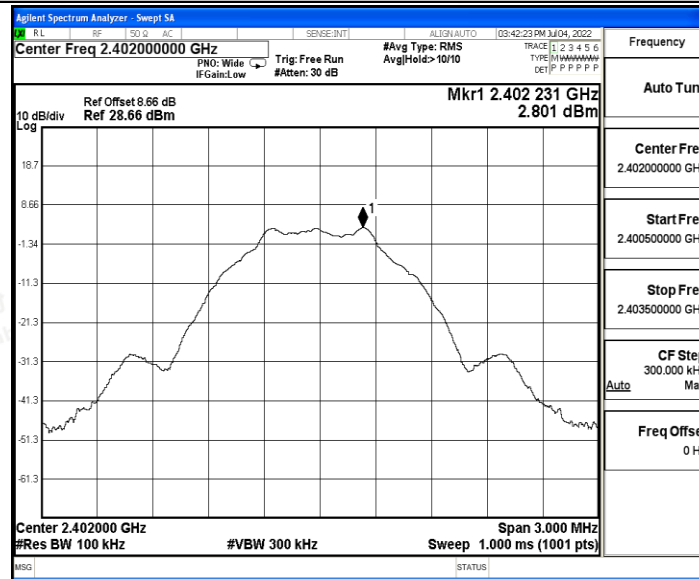
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.80	2.80	---	PASS
			30~1000	2.80	-51.77	≤-17.2	PASS
			1000~26500	2.80	-46.42	≤-17.2	PASS
		2440	Reference	3.02	3.02	---	PASS
			30~1000	3.02	-51.21	≤-16.98	PASS
			1000~26500	3.02	-46.1	≤-16.98	PASS
		2480	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-51.9	≤-19.66	PASS



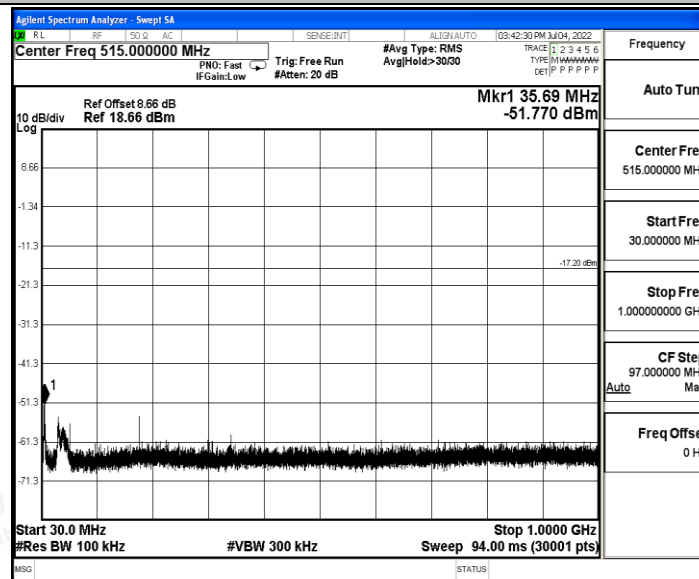


Test Graphs

BLE_1M_Ant1_2402_0~Reference

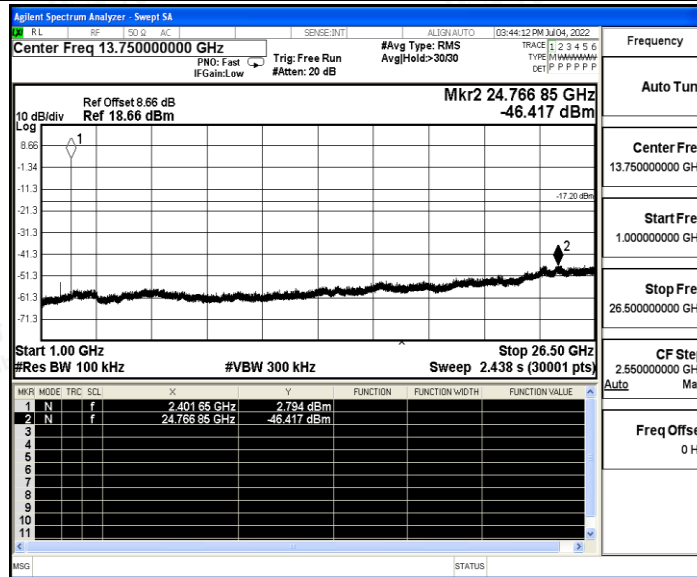


BLE_1M_Ant1_2402_30~1000

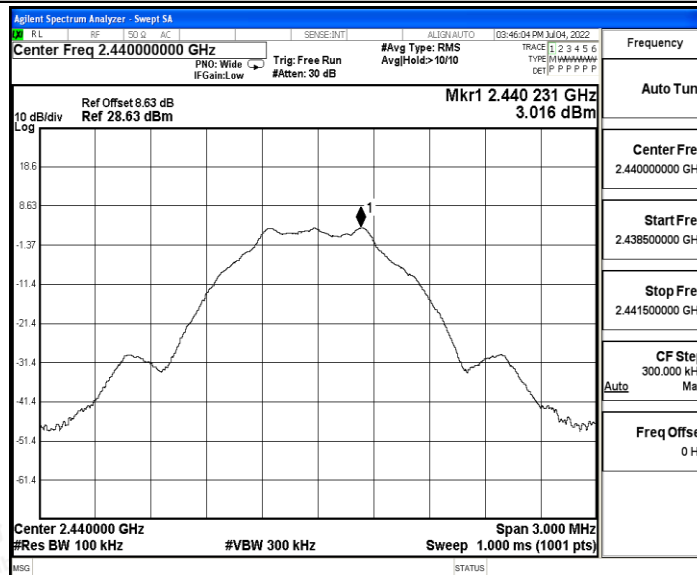




BLE_1M_Ant1_2402_1000~26500

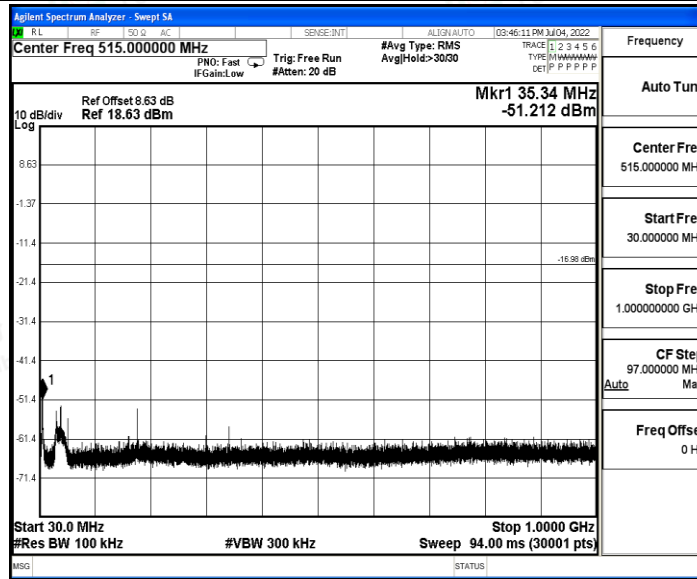


BLE_1M_Ant1_2440_0~Reference

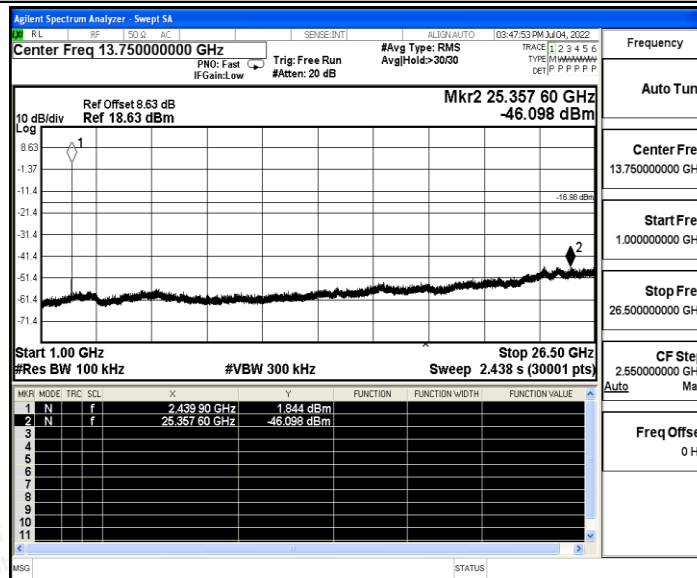




BLE_1M_Ant1_2440_30~1000

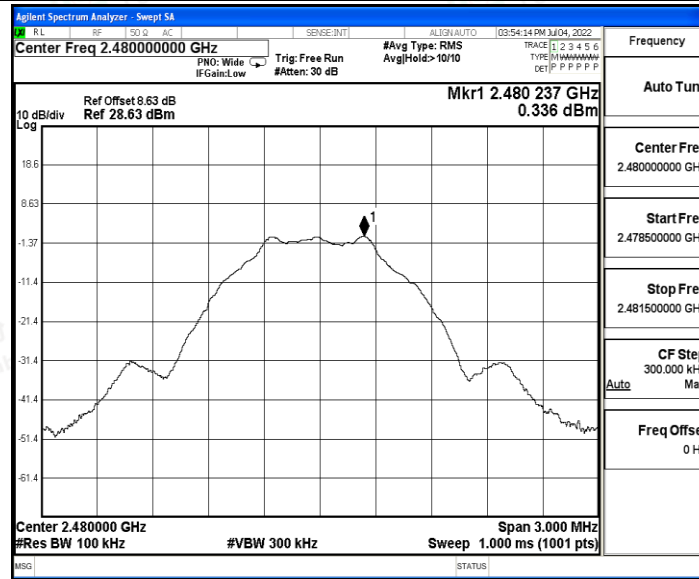


BLE_1M_Ant1_2440_1000~26500

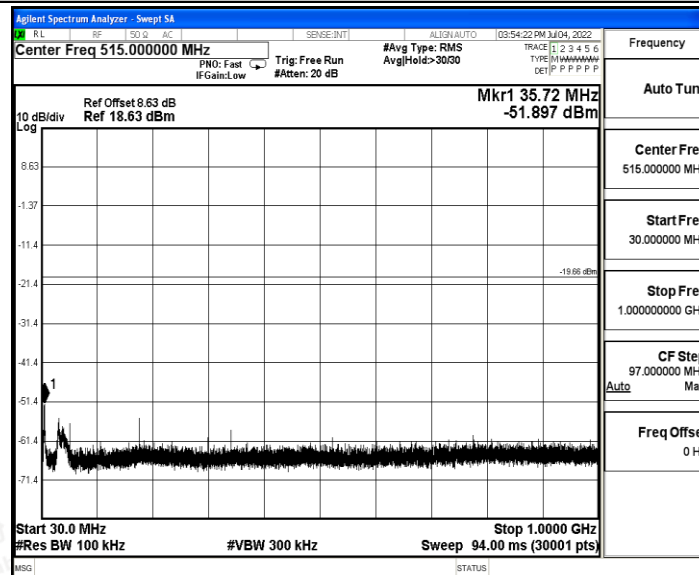




BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000





A.6 Duty Cycle

Test Result

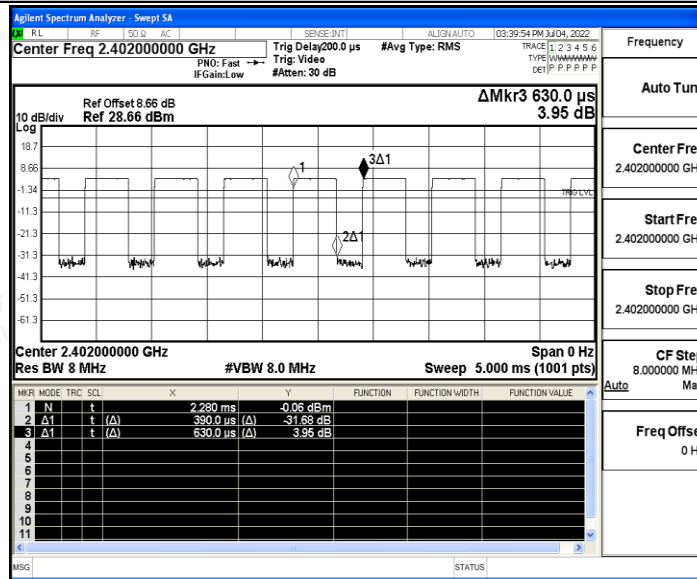
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.63	0.6190	61.90	2.08	2.56	---	---
		2440	0.38	0.63	0.6032	60.32	2.20	2.63	---	---
		2480	0.39	0.63	0.6190	61.90	2.08	2.56	---	---



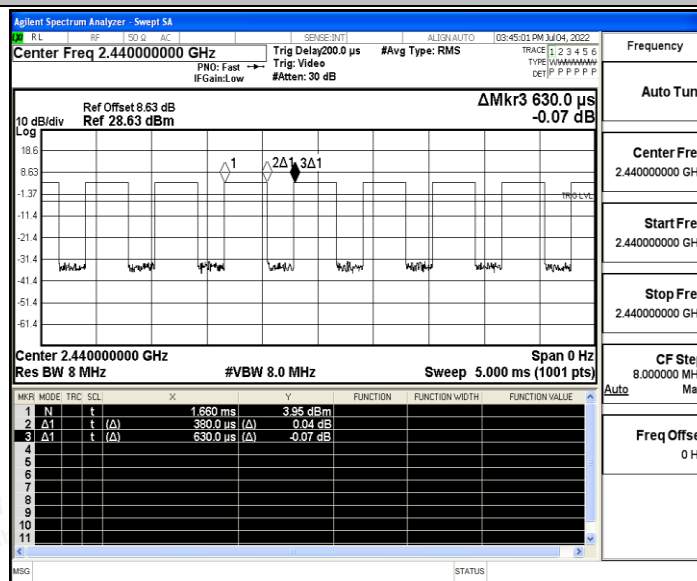


Test Graphs

BLE_1M_Ant1_2402

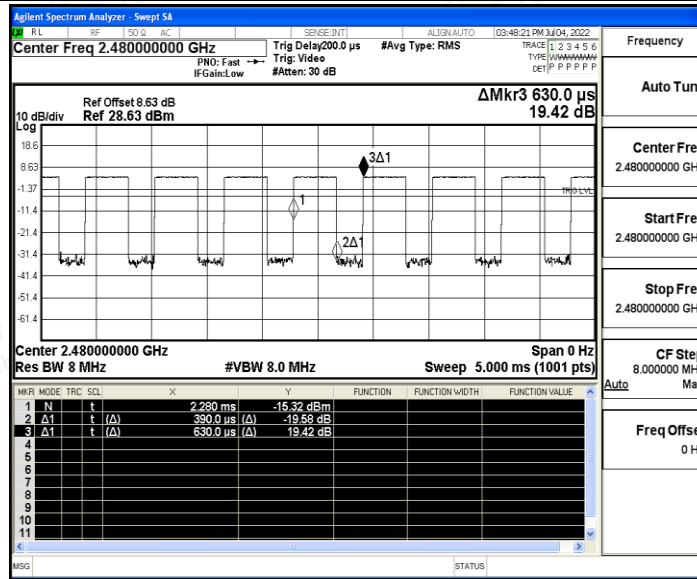


BLE_1M_Ant1_2440





BLE_1M_Ant1_2480





A.7 Emissions in Restricted Bands

Test Result

TestM ode	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	-57.23	≤-41.20	37.97	≤54	PASS
				AV	2385.260	-56.29	≤-41.20	38.91	≤54	PASS
				AV	2390.000	-56.7	≤-41.20	38.50	≤54	PASS
				Peak	2310.000	-48.72	≤-21.20	46.48	≤74	PASS
				Peak	2383.475	-46.19	≤-21.20	49.01	≤74	PASS
				Peak	2390.000	-47.79	≤-21.20	47.41	≤74	PASS
		High	2480	AV	2483.500	-52.75	≤-41.20	42.45	≤54	PASS
				AV	2483.520	-52.75	≤-41.20	42.45	≤54	PASS
				AV	2500.000	-56.47	≤-41.20	38.73	≤54	PASS
				Peak	2483.500	-47.57	≤-21.20	47.63	≤74	PASS
				Peak	2485.680	-45.98	≤-21.20	49.22	≤74	PASS
				Peak	2500.000	-47.61	≤-21.20	47.59	≤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.

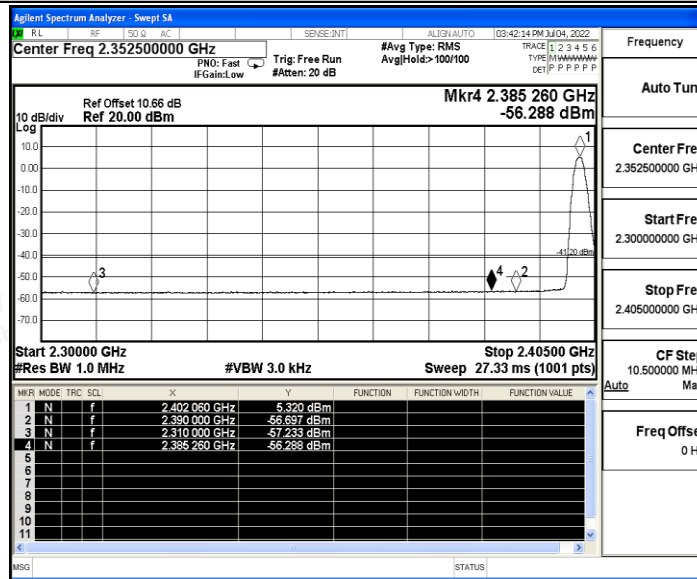


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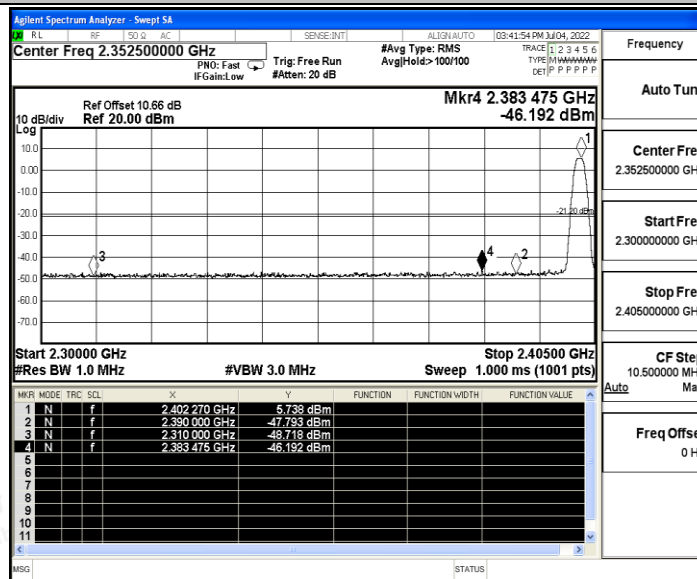


Test Graphs

BLE_1M_Ant1_Low_2402_AV

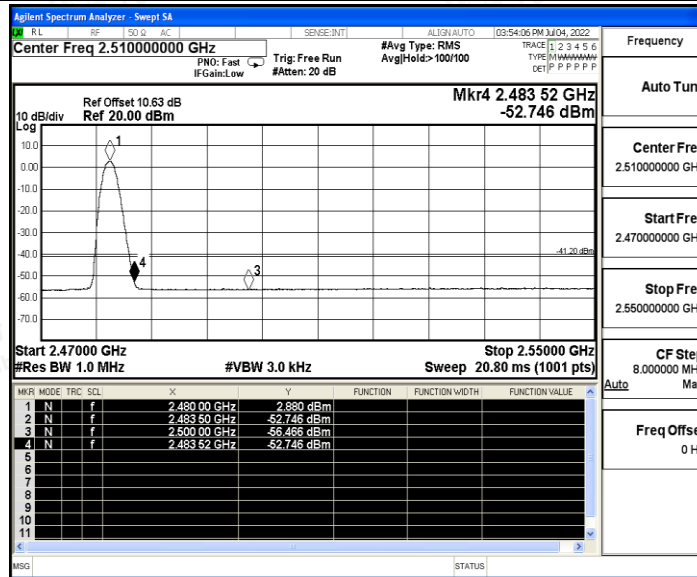


BLE_1M_Ant1_Low_2402_Peak





BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

