



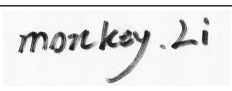
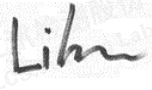
Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: 10.1inch Cloud Photo Frame

Test Model: US65101A2

Environmental Conditions

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





A.1 DTS Bandwidth

Test Result

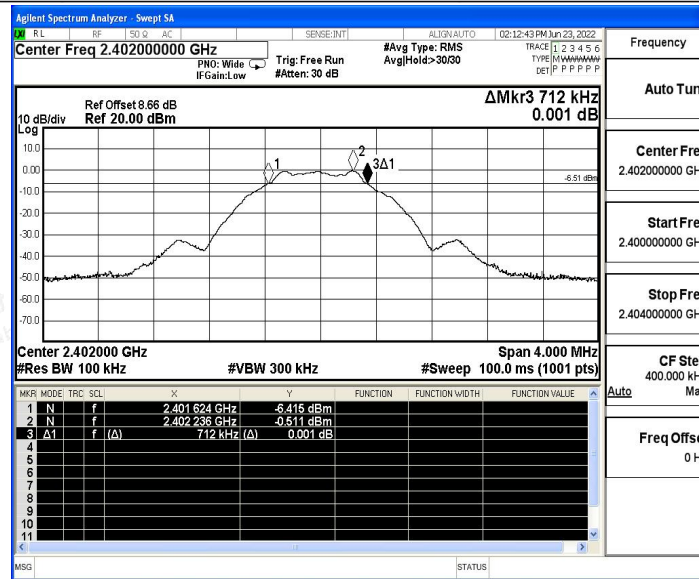
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.712	2401.624	2402.336	0.5	PASS
		2440	0.712	2439.624	2440.336	0.5	PASS
		2480	0.716	2479.624	2480.340	0.5	PASS



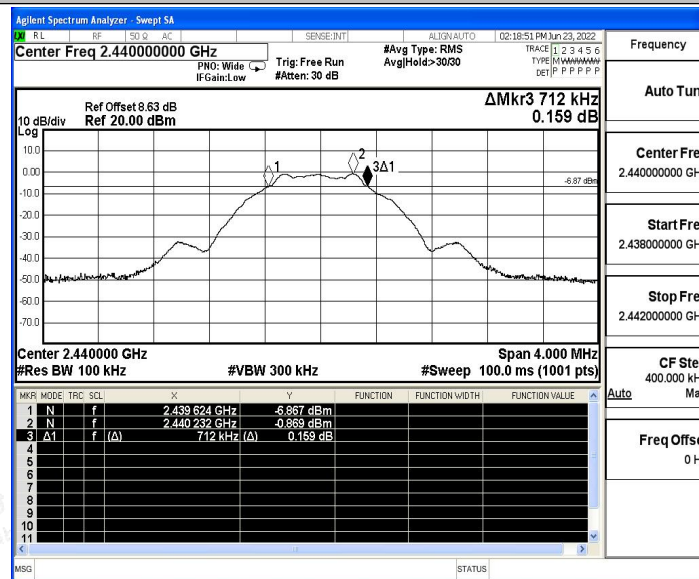


Test Graphs

BLE_1M_Ant1_2402

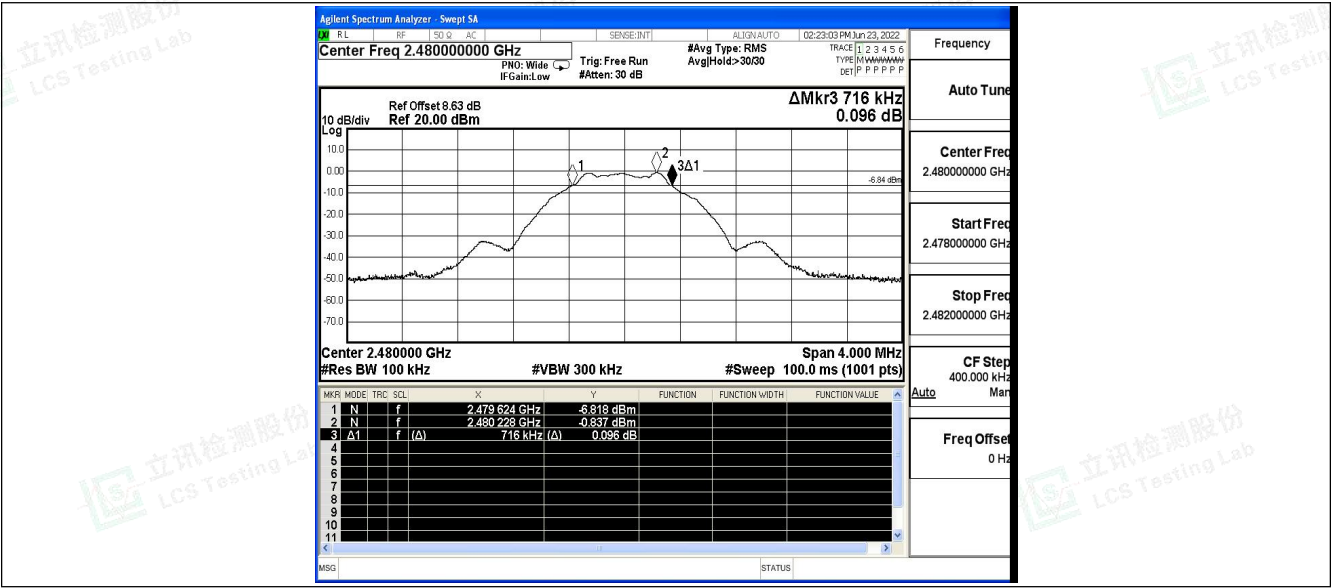


BLE_1M_Ant1_2440



BLE_1M_Ant1_2480







A.2 Maximum peak conducted output power

Test Result

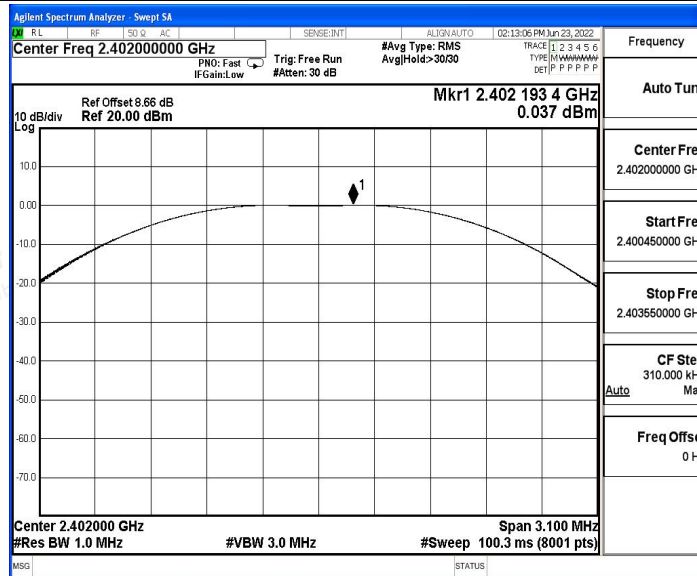
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.04	≤30	PASS
		2440	0.09	≤30	PASS
		2480	0.14	≤30	PASS



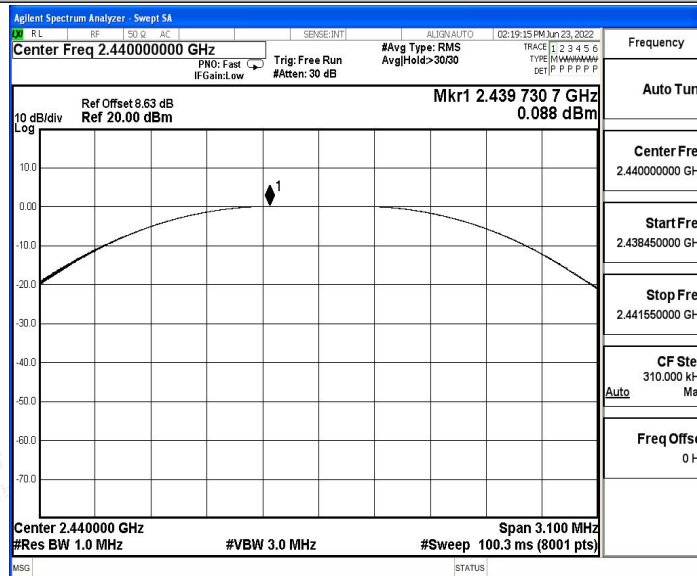


Test Graphs

BLE_1M_Ant1_2402

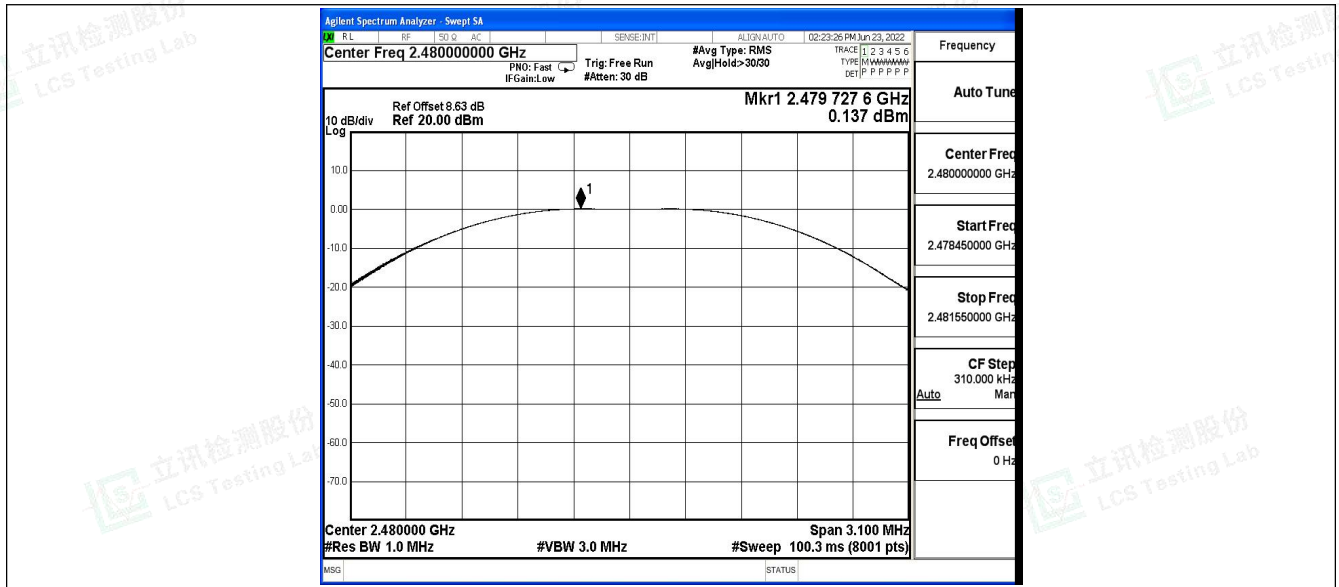


BLE_1M_Ant1_2440



BLE_1M_Ant1_2480







A.3 Maximum power spectral density

Test Result

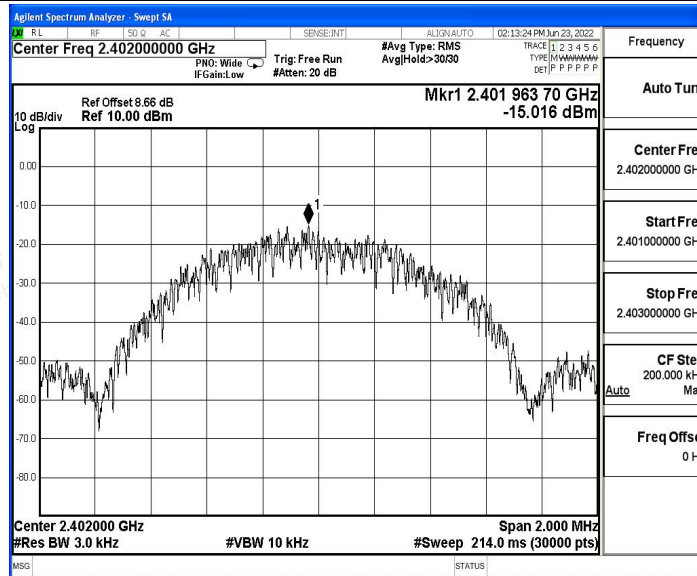
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.02	≤8.00	PASS
		2440	-14.98	≤8.00	PASS
		2480	-15.03	≤8.00	PASS



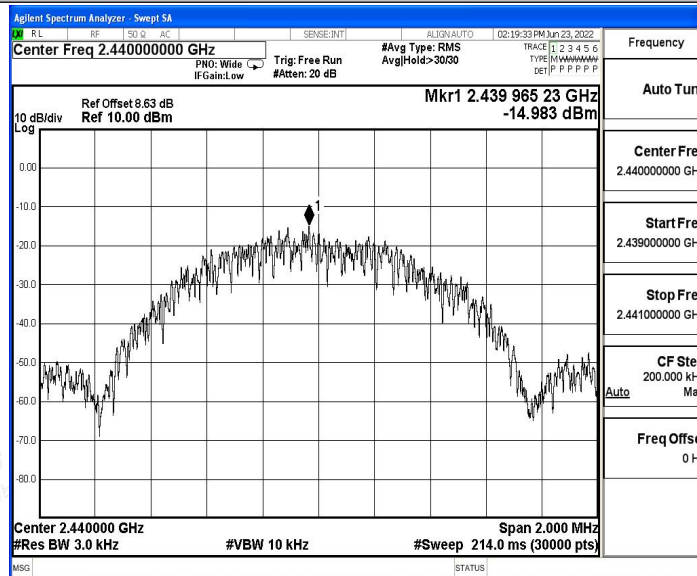


Test Graphs

BLE_1M_Ant1_2402

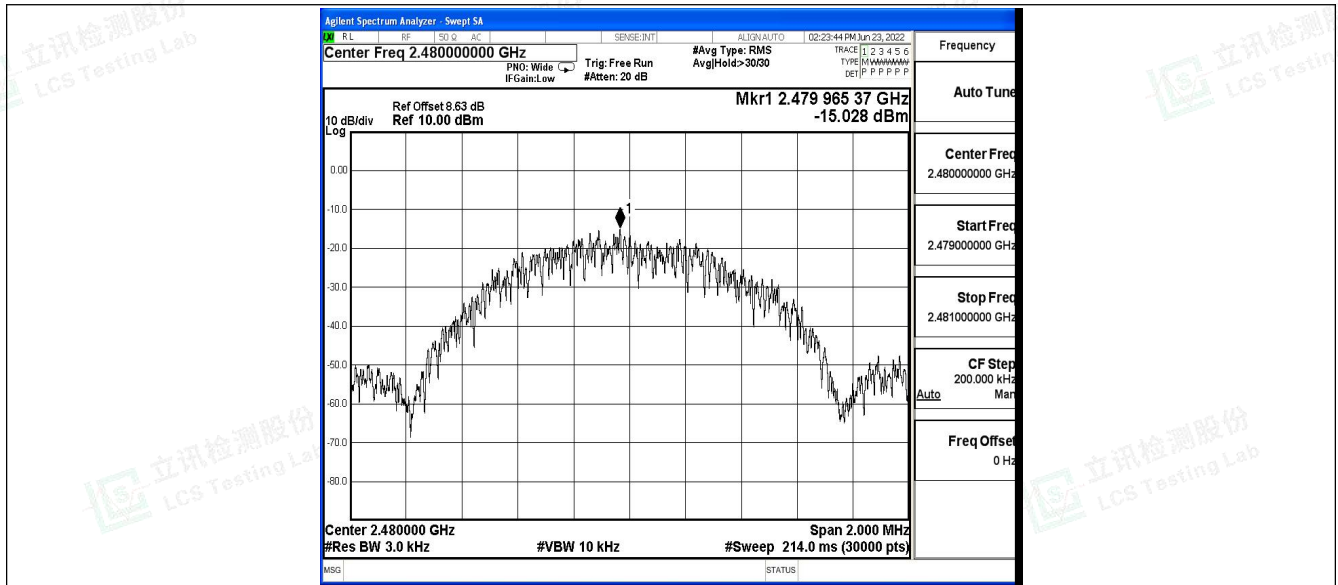


BLE_1M_Ant1_2440



BLE_1M_Ant1_2480







A.4 Band edge measurements

Test Result

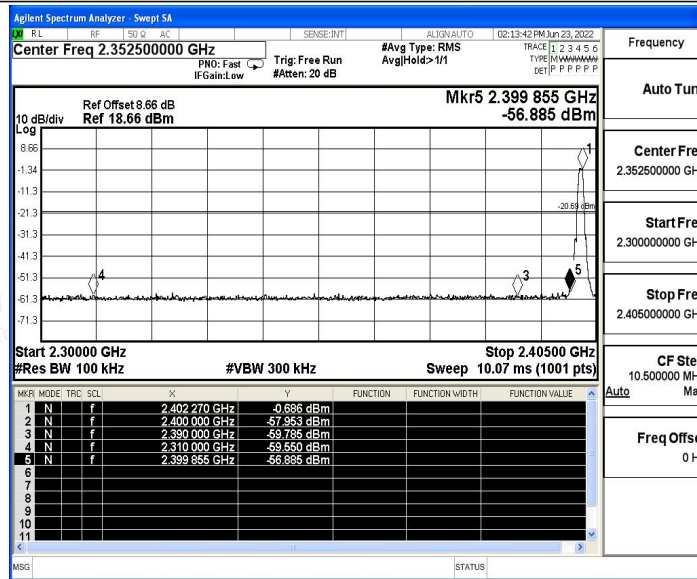
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.69	-56.89	≤-20.69	PASS
		High	2480	-0.60	-57.06	≤-20.6	PASS



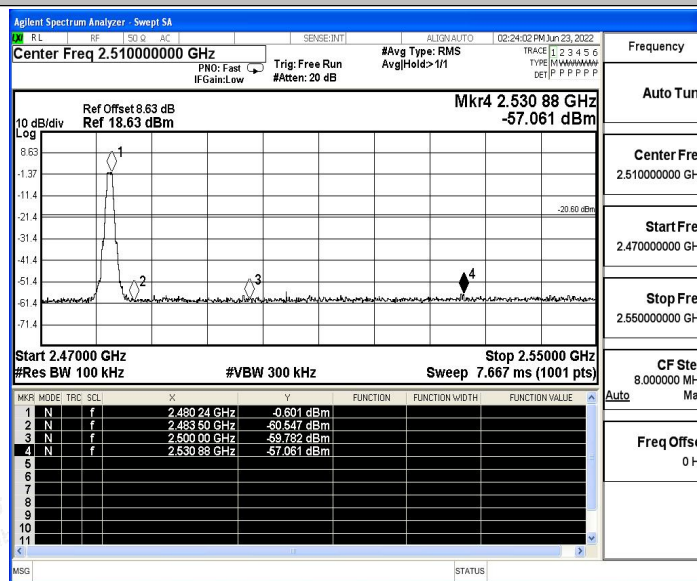


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480





A.5 Conducted Spurious Emission

Test Result

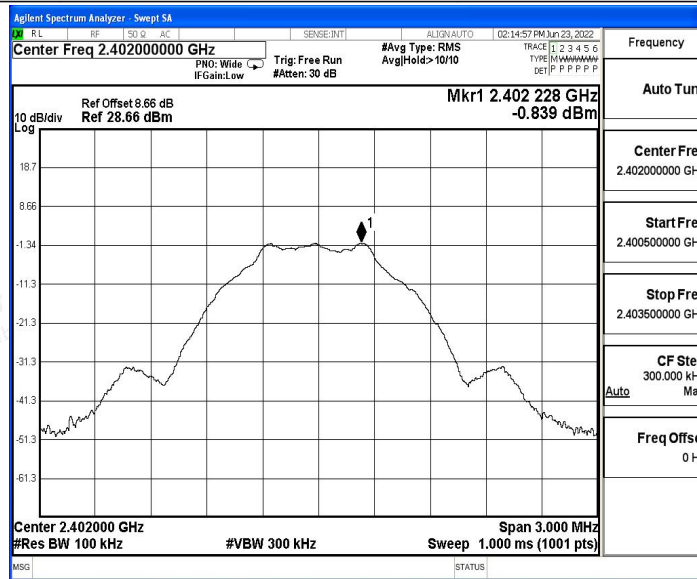
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.84	-0.84	---	PASS
			30~1000	-0.84	-42.49	≤-20.84	PASS
			1000~26500	-0.84	-45.36	≤-20.84	PASS
		2440	Reference	-0.84	-0.84	---	PASS
			30~1000	-0.84	-60.95	≤-20.84	PASS
			1000~26500	-0.84	-46.15	≤-20.84	PASS
		2480	Reference	-0.87	-0.87	---	PASS
			30~1000	-0.87	-60.45	≤-20.87	PASS
			1000~26500	-0.87	-46.21	≤-20.87	PASS



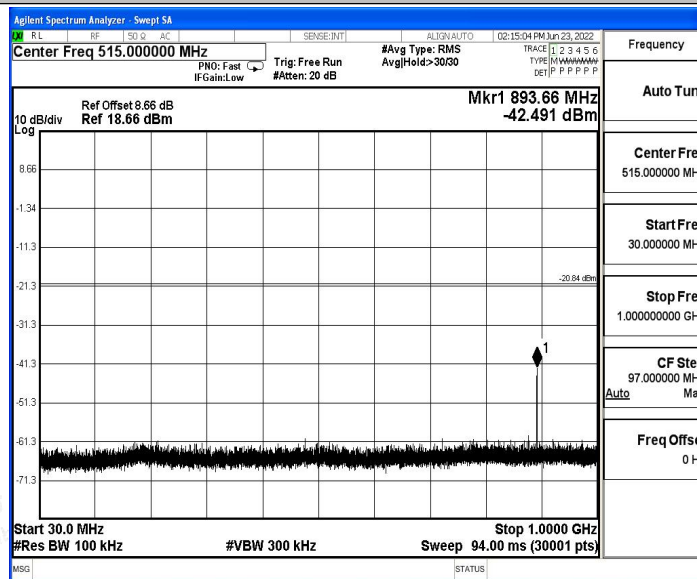


Test Graphs

BLE_1M_Ant1_2402_0~Reference

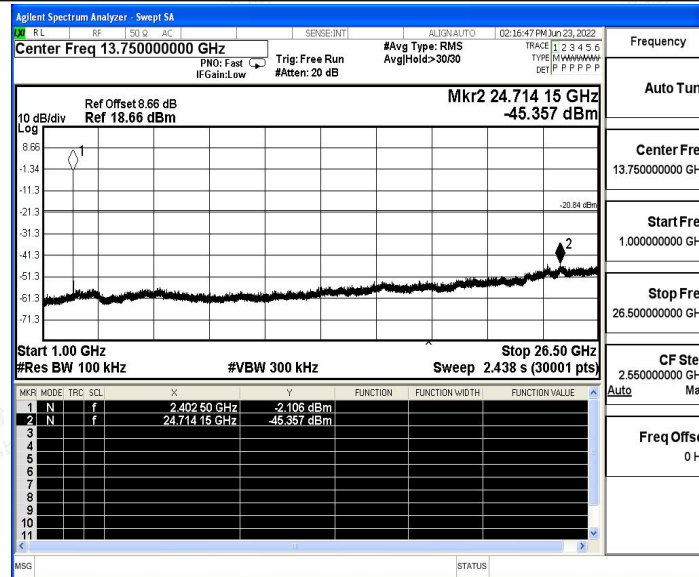


BLE_1M_Ant1_2402_30~1000

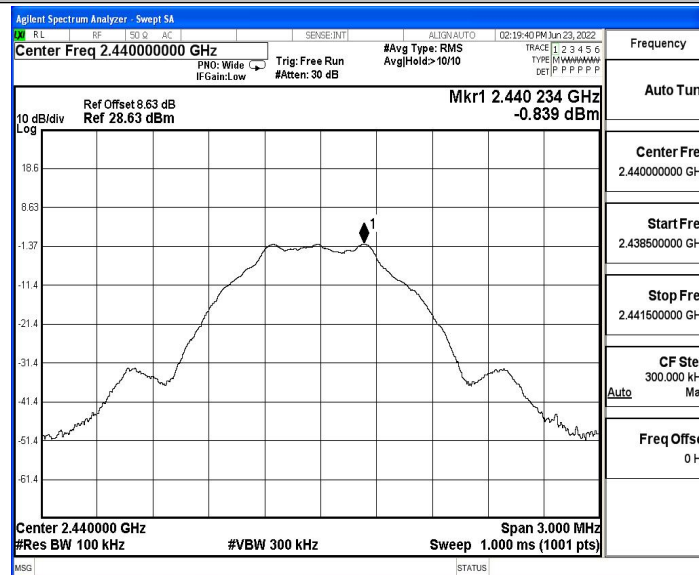


BLE_1M_Ant1_2402_1000~26500



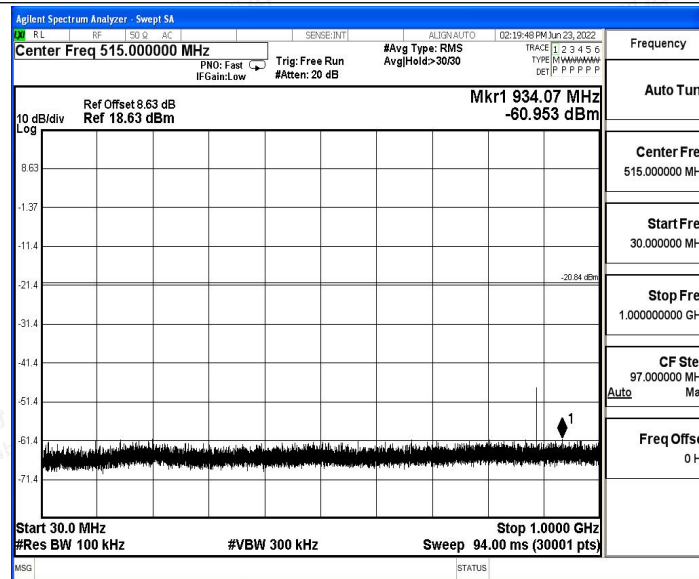


BLE_1M_Ant1_2440_0~Reference

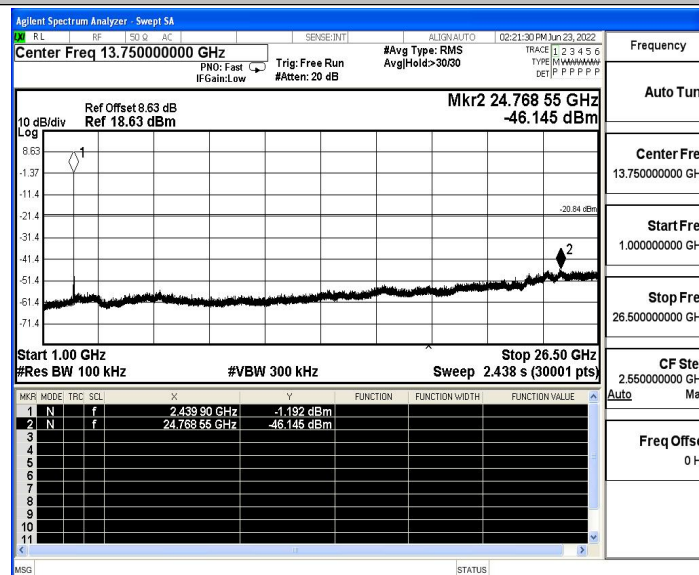


BLE_1M_Ant1_2440_30~1000



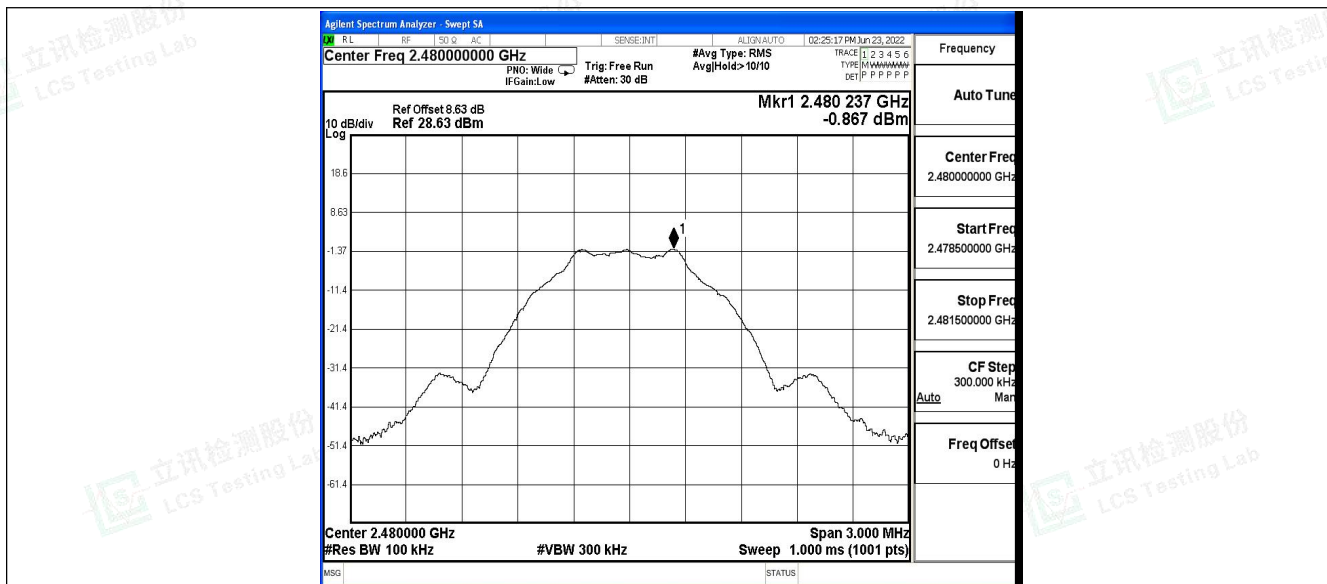


BLE_1M_Ant1_2440_1000~26500

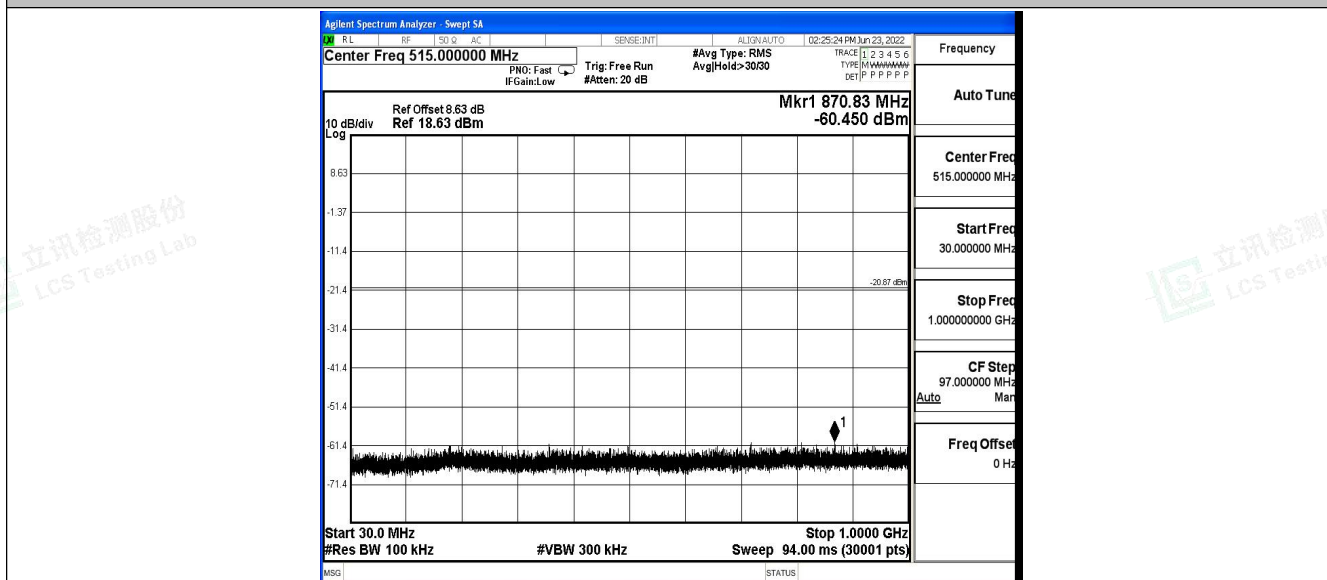


BLE_1M_Ant1_2480_0~Reference



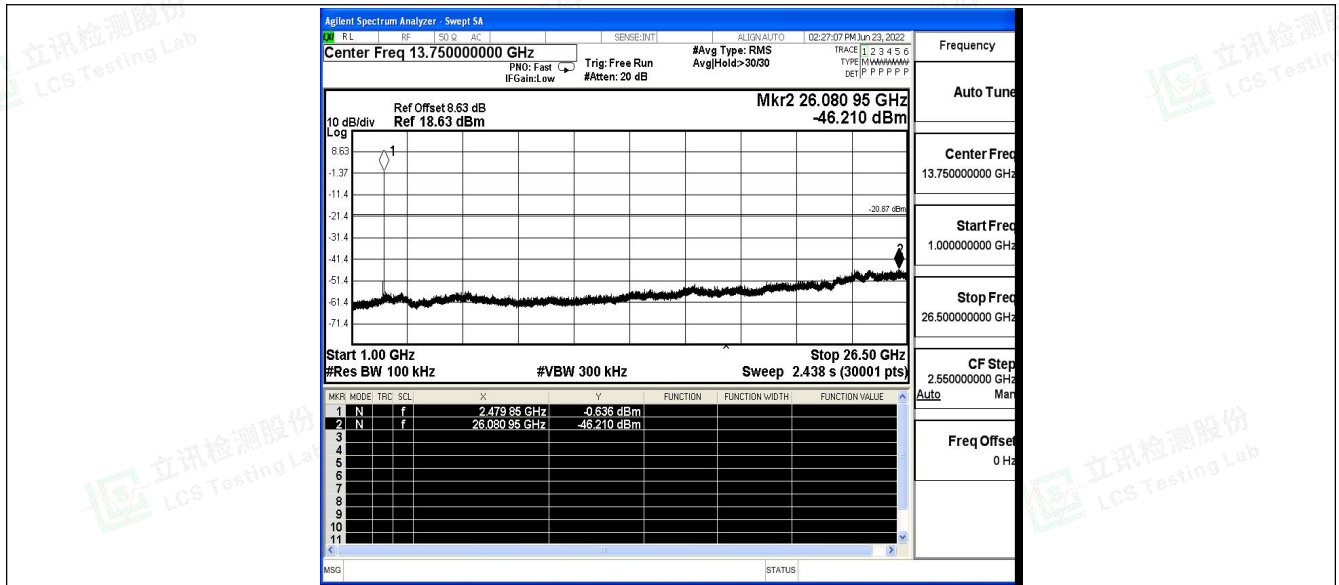


BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500







A.6 Duty Cycle

Test Result

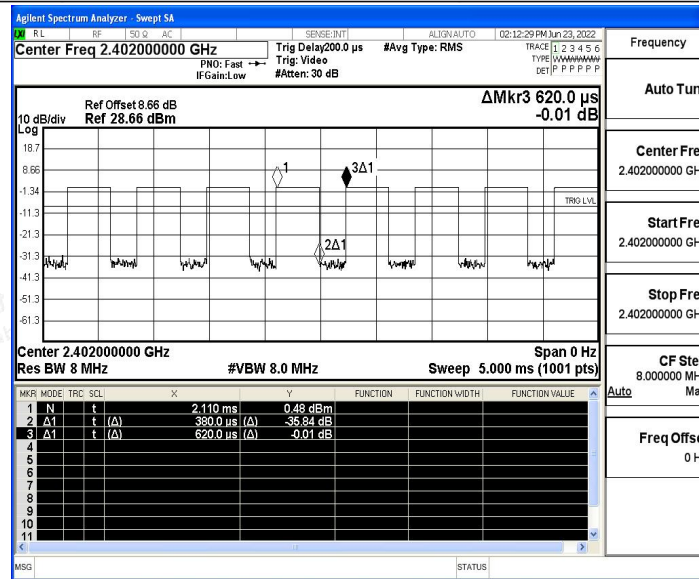
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T
BLE_1M	Ant1	2402	0.38	0.62	0.6129	61.29	2.13	2.63
		2440	0.39	0.63	0.6190	61.90	2.08	2.56
		2480	0.39	0.63	0.6190	61.90	2.08	2.56



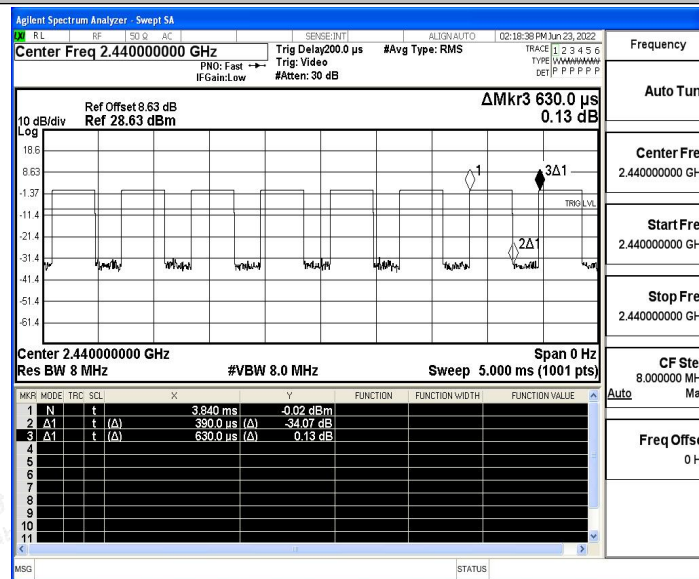


Test Graphs

BLE_1M_Ant1_2402

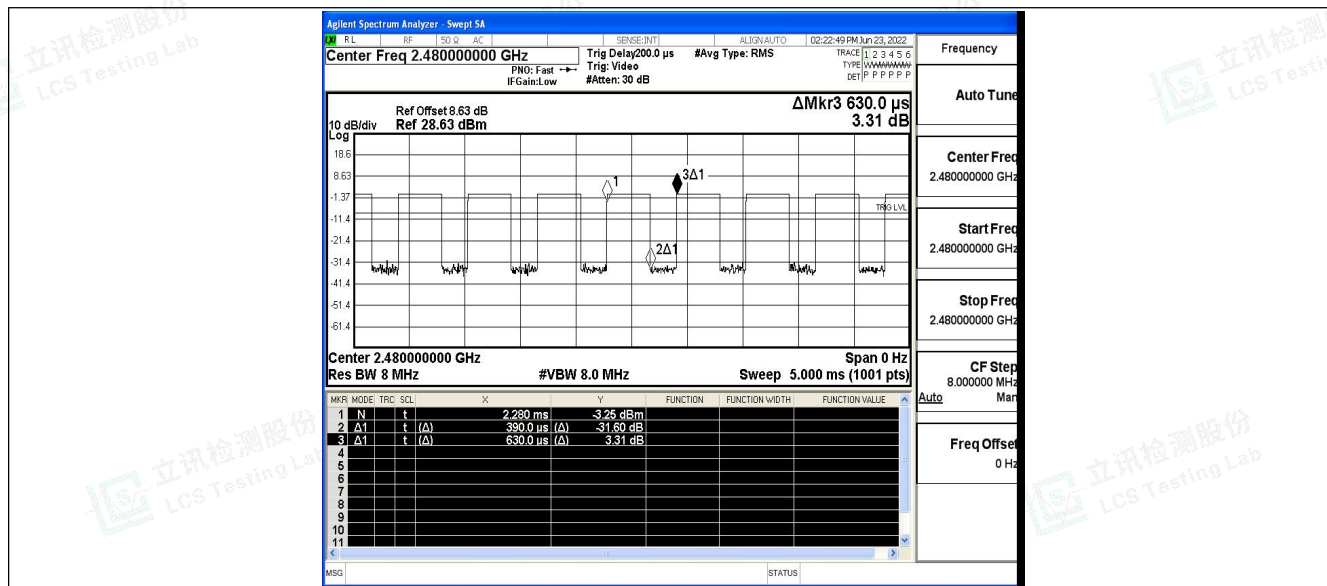


BLE_1M_Ant1_2440



BLE_1M_Ant1_2480







A.7 Emissions in Restricted Bands

Test Result

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	-57.2	≤-41.20	38.00	≤54	PASS
				AV	2315.435	-56.43	≤-41.20	38.77	≤54	PASS
				AV	2390.000	-56.82	≤-41.20	38.38	≤54	PASS
				Peak	2310.000	-48.08	≤-21.20	47.12	≤74	PASS
				Peak	2332.865	-46.27	≤-21.20	48.93	≤74	PASS
				Peak	2390.000	-47.79	≤-21.20	47.41	≤74	PASS
		High	2480	AV	2483.500	-53.49	≤-41.20	41.71	≤54	PASS
				AV	2483.520	-53.49	≤-41.20	41.71	≤54	PASS
				AV	2500.000	-56.25	≤-41.20	38.95	≤54	PASS
				Peak	2483.500	-46.92	≤-21.20	48.28	≤74	PASS
				Peak	2497.200	-45.91	≤-21.20	49.29	≤74	PASS
				Peak	2500.000	-47.37	≤-21.20	47.83	≤74	PASS

Note:

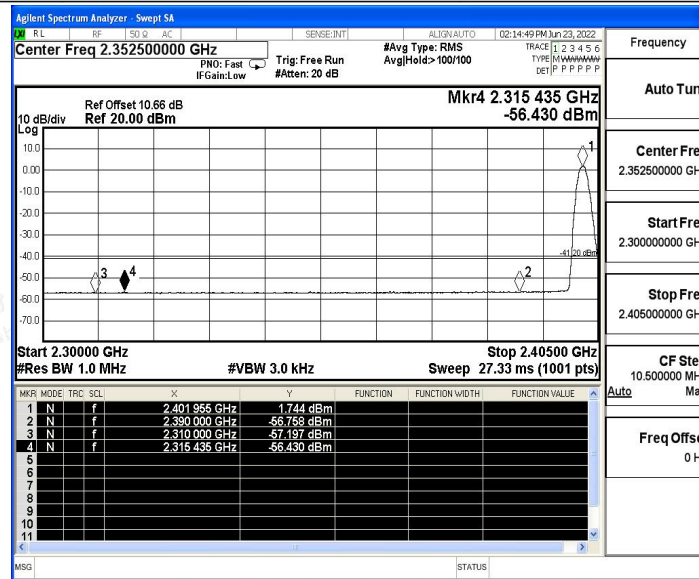
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



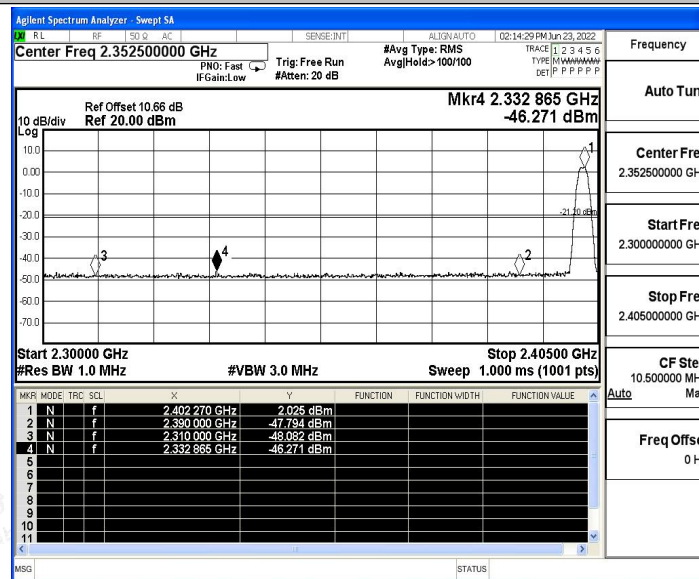


Test Graphs

BLE_1M_Ant1_Low_2402_AV

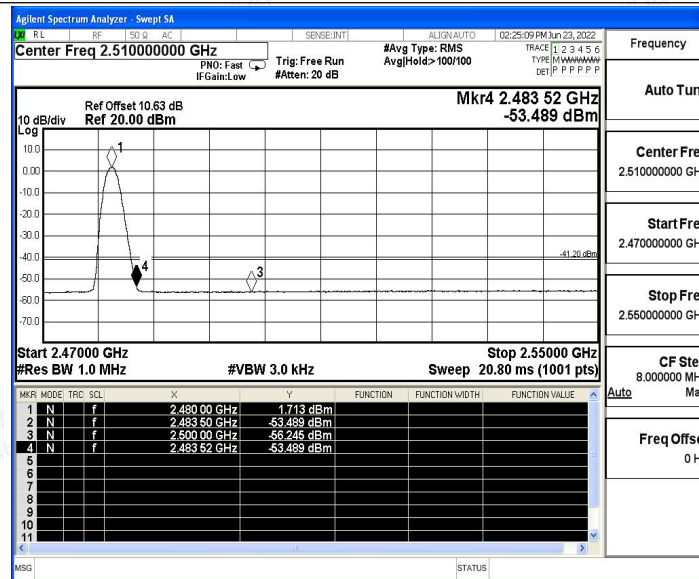


BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV





BLE_1M_Ant1_High_2480_Peak

