



Appendix B

RF Test Data for BT LE(Conducted Measurement)

Product Name: Tablet PC

Test Model: K750

Environmental Conditions

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





B.1 DTS Bandwidth

Test Result

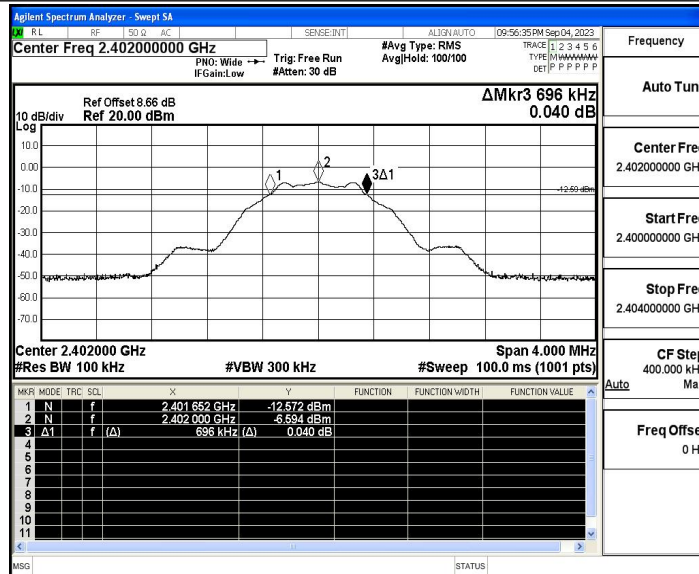
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.696	2401.652	2402.348	0.5	PASS
		2440	0.688	2439.660	2440.348	0.5	PASS
		2480	0.692	2479.656	2480.348	0.5	PASS



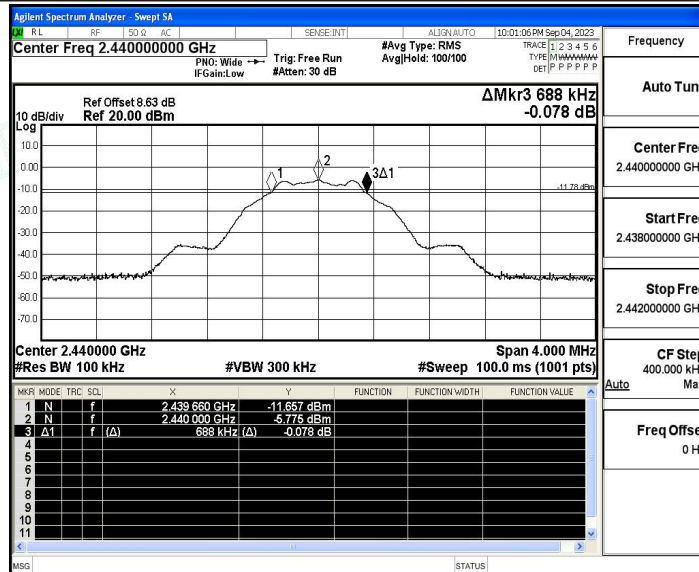


Test Graphs

BLE_1M_Ant1_2402

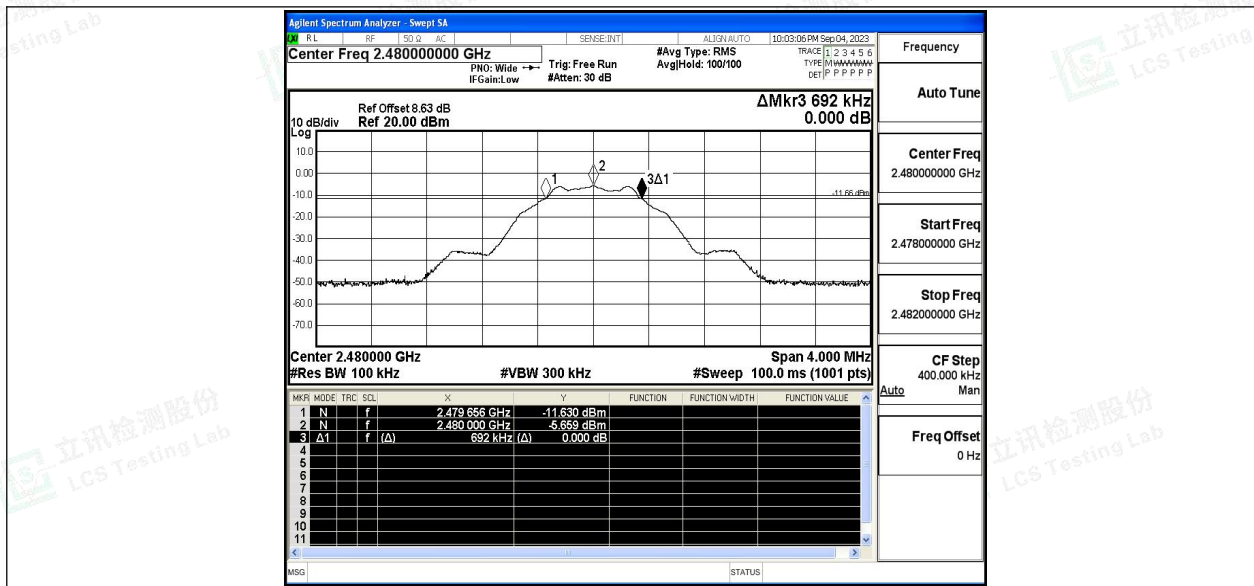


BLE_1M_Ant1_2440



BLE_1M_Ant1_2480







B.2 Maximum conducted output power

Test Result

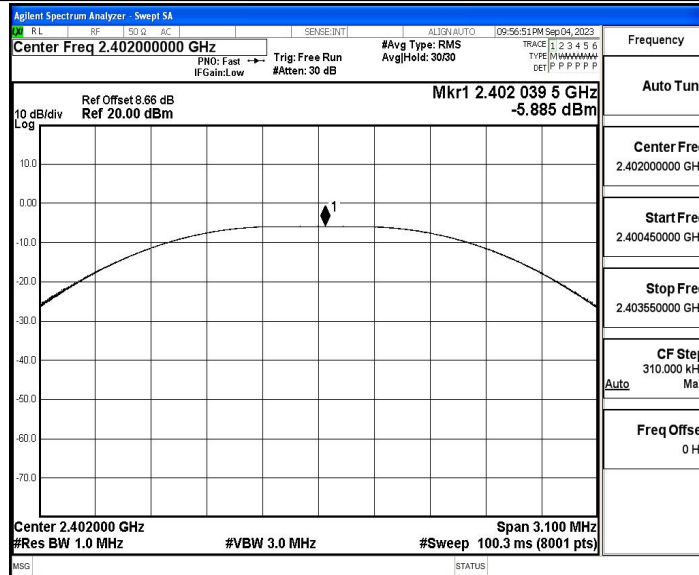
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-5.89	≤30	PASS
		2440	-5.24	≤30	PASS
		2480	-4.96	≤30	PASS



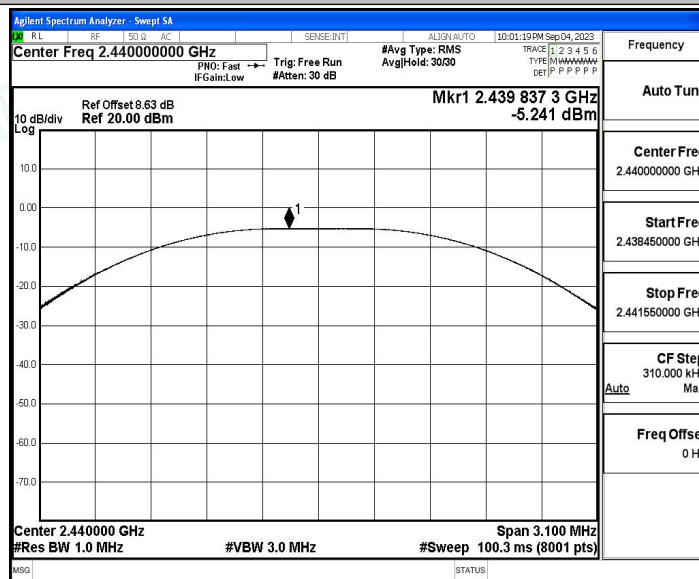


Test Graphs

BLE_1M_Ant1_2402

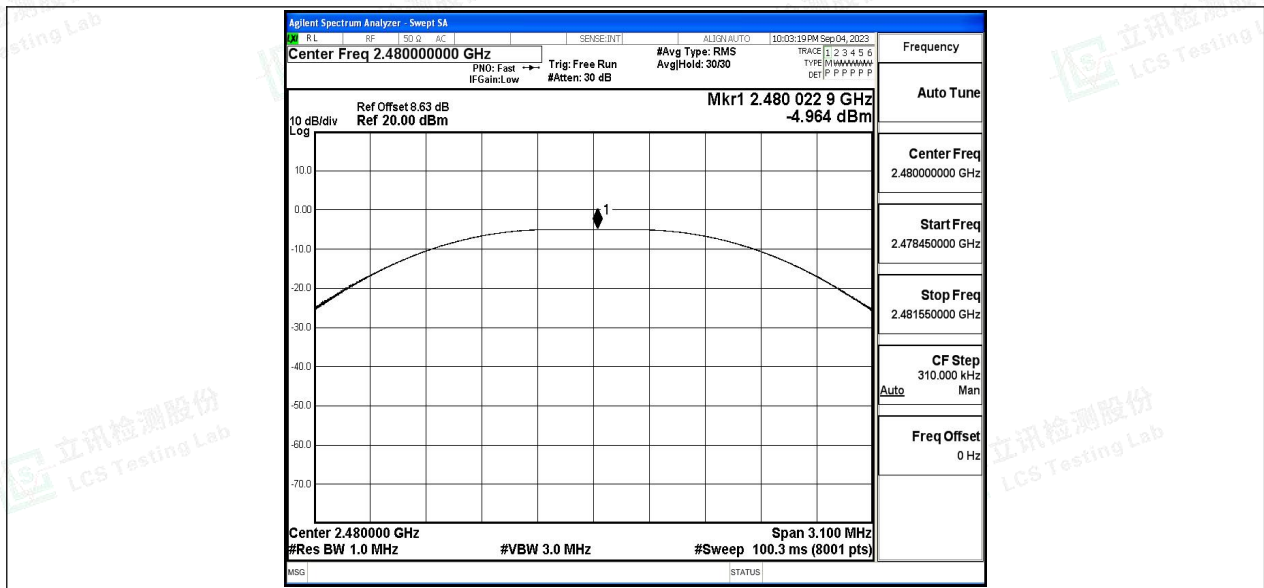


BLE_1M_Ant1_2440



BLE_1M_Ant1_2480







B.3 Maximum power spectral density

Test Result

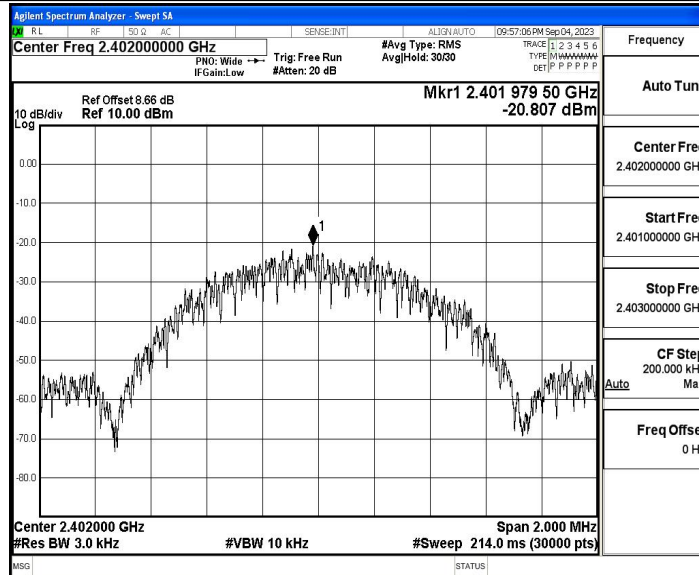
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-20.81	≤8.00	PASS
		2440	-20.16	≤8.00	PASS
		2480	-19.91	≤8.00	PASS



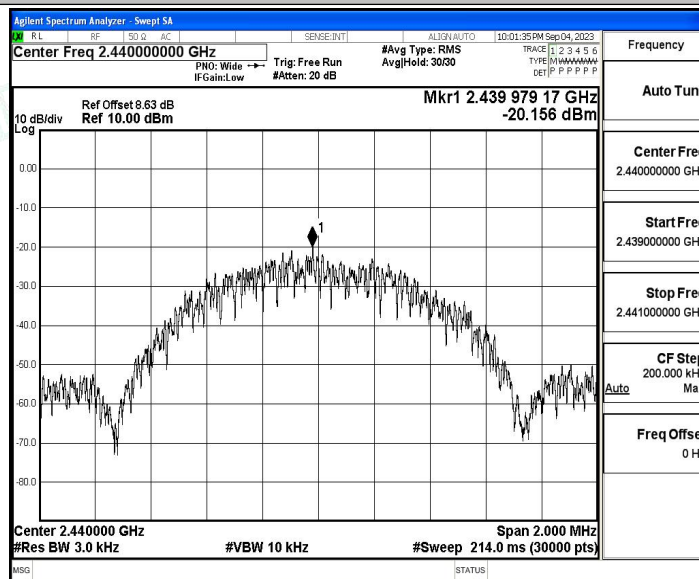


Test Graphs

BLE_1M_Ant1_2402

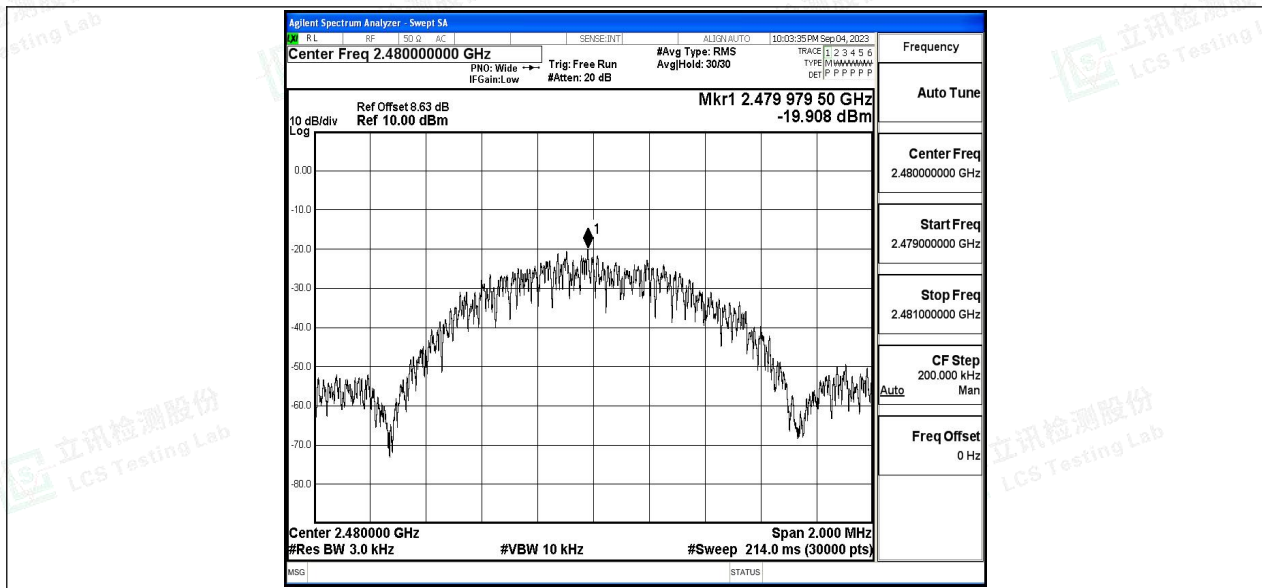


BLE_1M_Ant1_2440



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	-6.98	-58.13	≤ -26.98	PASS
		High	2480	-5.64	-58.71	≤ -25.64	PASS





Test Graphs





B.5 Conducted Spurious Emission

Test Result

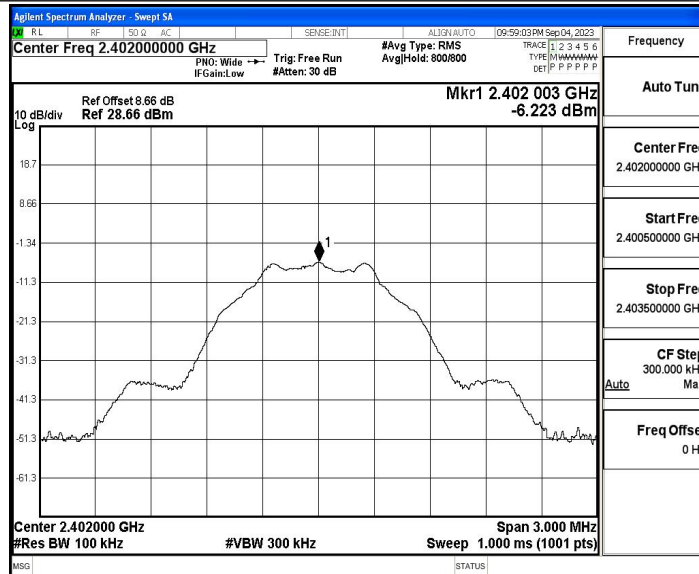
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-6.22	-6.22	---	PASS
			30~1000	-6.22	-60.92	≤-26.22	PASS
			1000~26500	-6.22	-46.1	≤-26.22	PASS
		2440	Reference	-6.00	-6.00	---	PASS
			30~1000	-6.00	-60.48	≤-26	PASS
			1000~26500	-6.00	-46.83	≤-26	PASS
		2480	Reference	-5.74	-5.74	---	PASS
			30~1000	-5.74	-61.23	≤-25.74	PASS
			1000~26500	-5.74	-46.44	≤-25.74	PASS



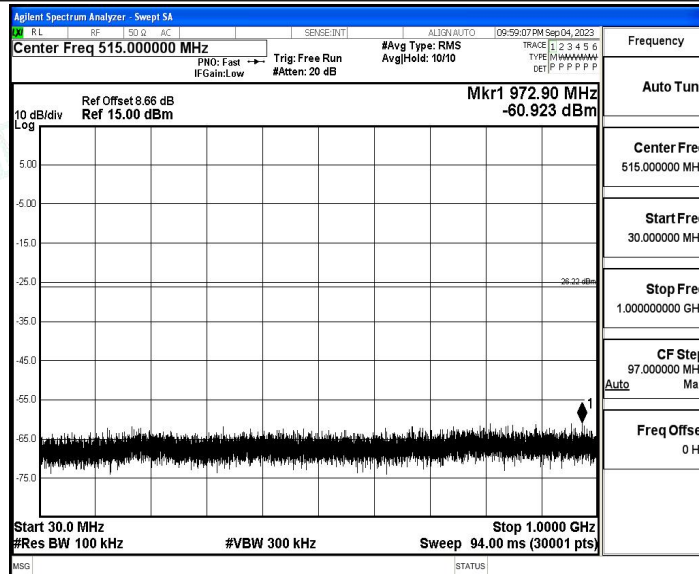


Test Graphs

BLE_1M_Ant1_2402_0~Reference

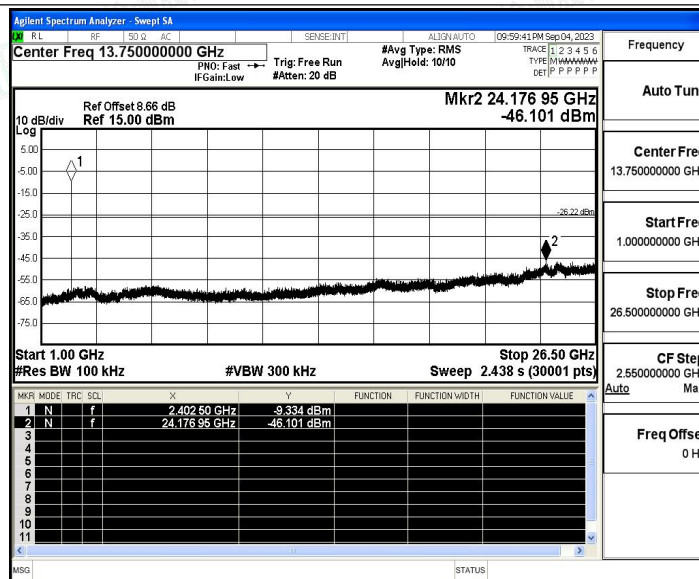


BLE_1M_Ant1_2402_30~1000

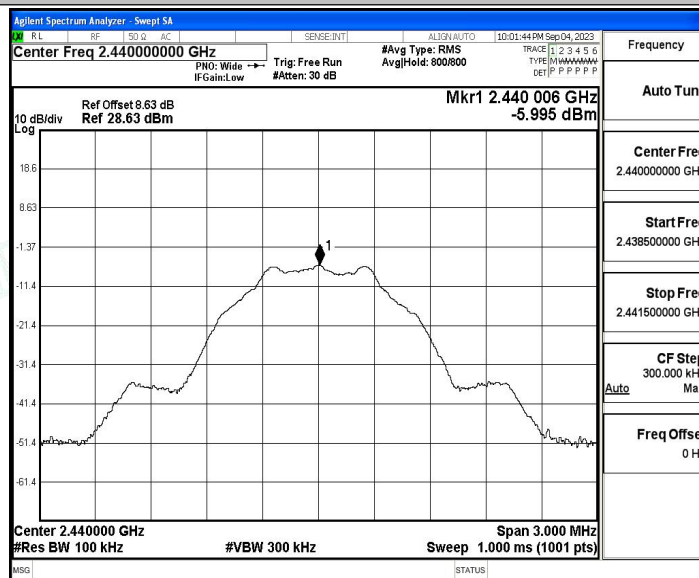


BLE_1M_Ant1_2402_1000~26500



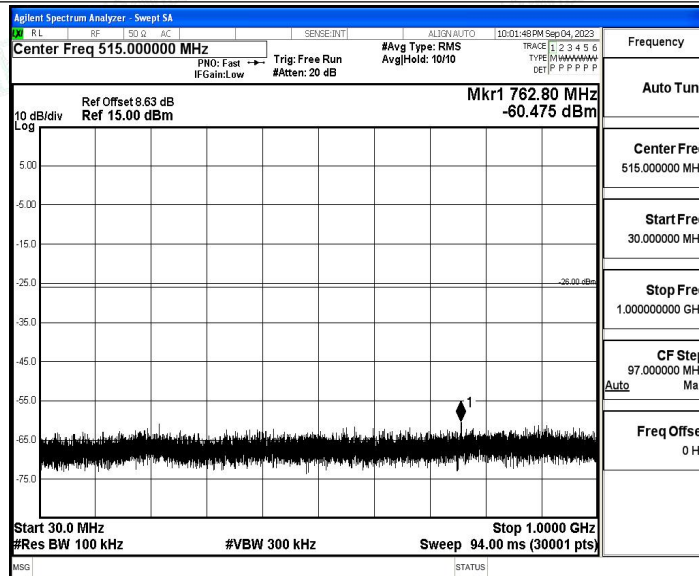


BLE_1M_Ant1_2440_0~Reference

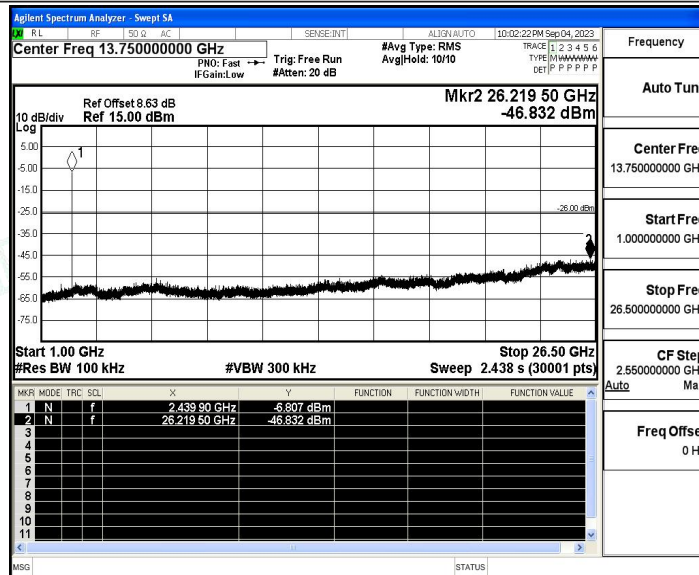


BLE_1M_Ant1_2440_30~1000



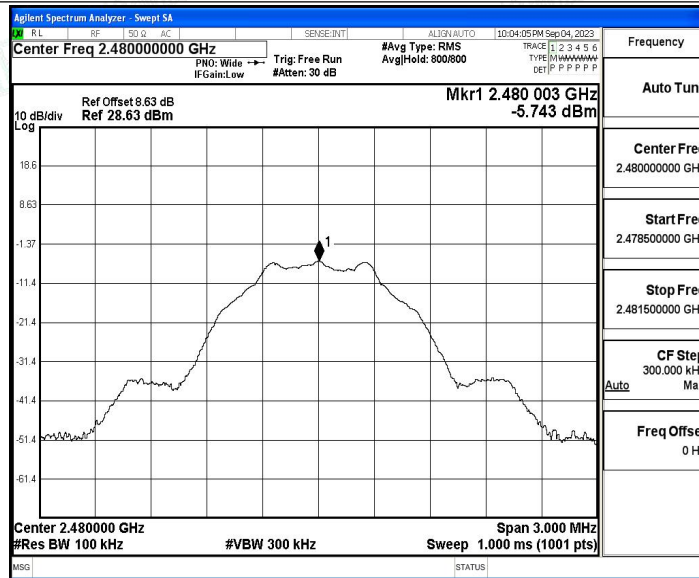


BLE_1M_Ant1_2440_1000~26500

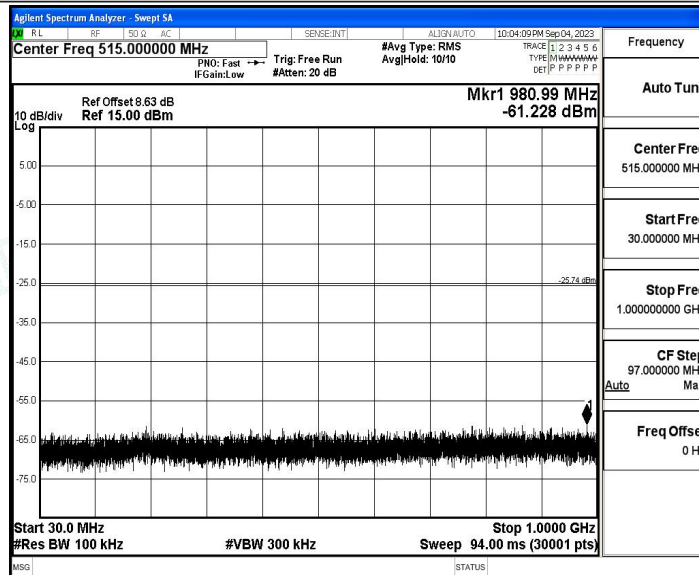


BLE_1M_Ant1_2480_0~Reference



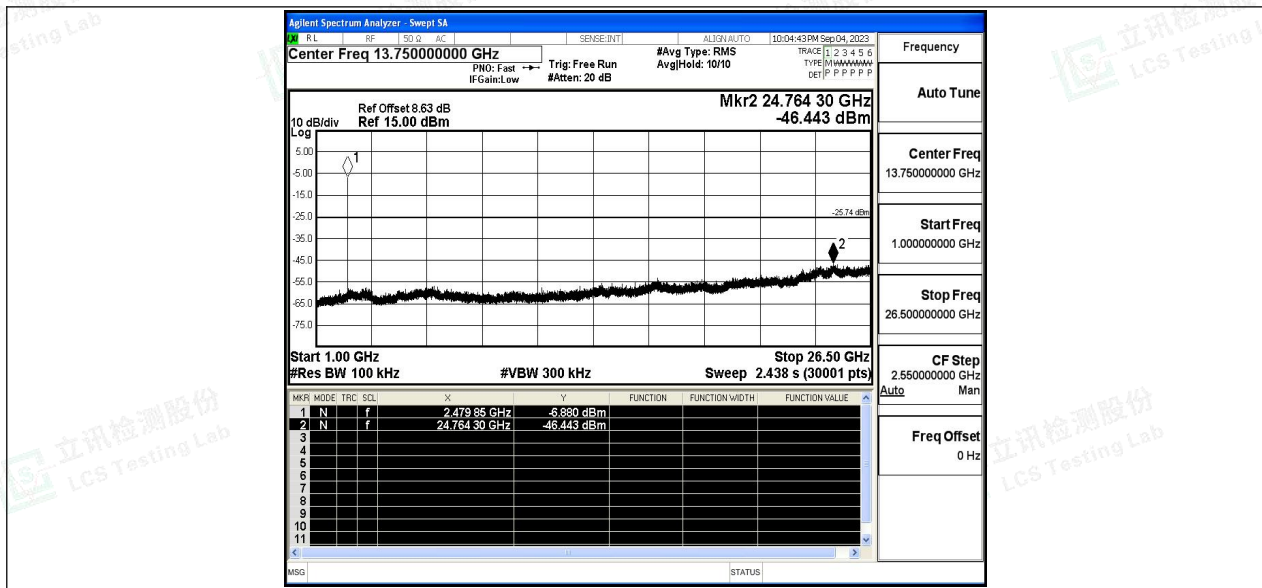


BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500







B.6 Duty Cycle

Test Result

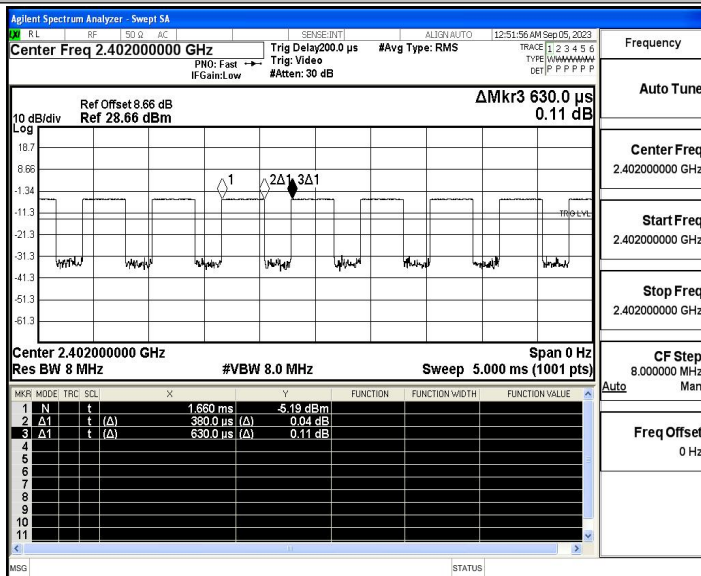
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.63	0.6032	60.32	2.20	2.63	---	---
		2440	0.39	0.63	0.6190	61.90	2.08	2.56	---	---
		2480	0.39	0.63	0.6190	61.90	2.08	2.56	---	---



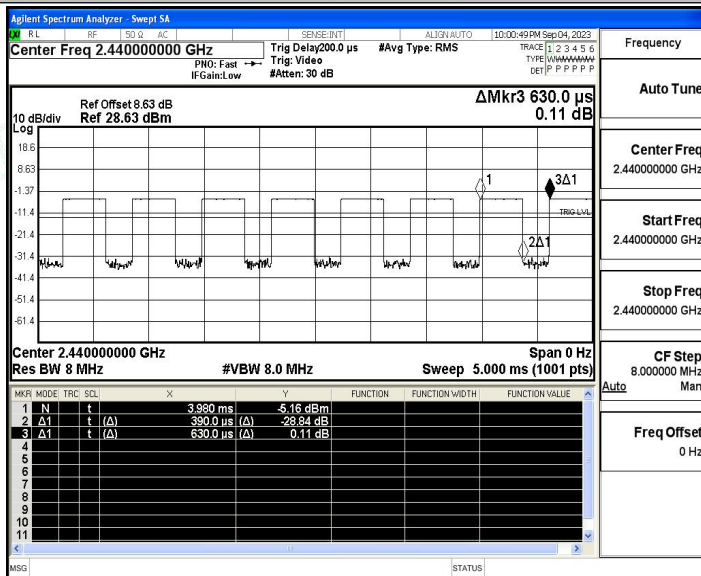


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

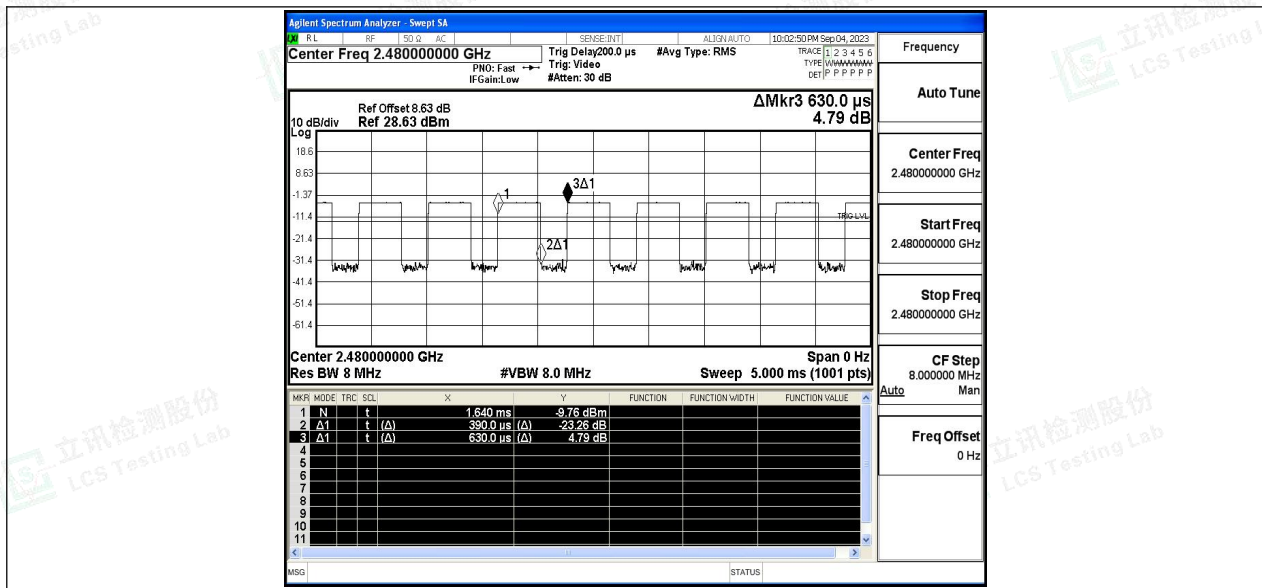


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B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Gain (dBi)	E (dBuV/m)	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-58.29	2.57	39.54	≤54	PASS
				AV	2385.680	-57.85	2.57	39.98	≤54	PASS
				AV	2390.000	-57.89	2.57	39.94	≤54	PASS
				Peak	2310.000	-55.19	2.57	42.64	≤74	PASS
				Peak	2361.845	-48.37	2.57	49.46	≤74	PASS
				Peak	2390.000	-52.09	2.57	45.74	≤74	PASS
		High	2480	AV	2483.500	-55.77	2.57	42.06	≤54	PASS
				AV	2483.520	-55.77	2.57	42.06	≤54	PASS
				AV	2500.000	-56.64	2.57	41.19	≤54	PASS
				Peak	2483.500	-50.47	2.57	47.36	≤74	PASS
				Peak	2499.120	-47.38	2.57	50.45	≤74	PASS
				Peak	2500.000	-51.18	2.57	46.65	≤74	PASS

Note:

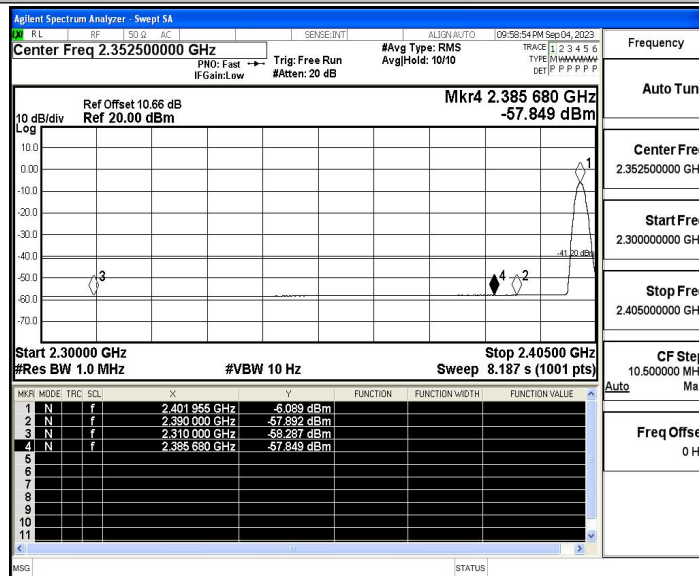
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



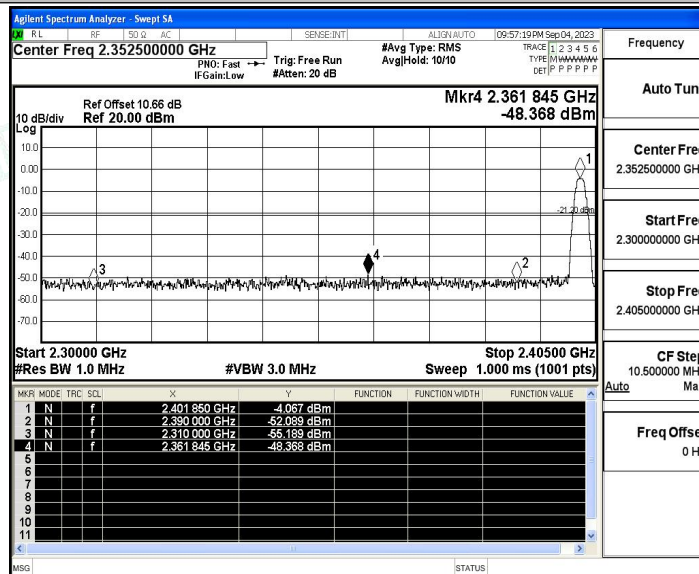


Test Graphs

BLE_1M_Ant1_Low_2402_AV

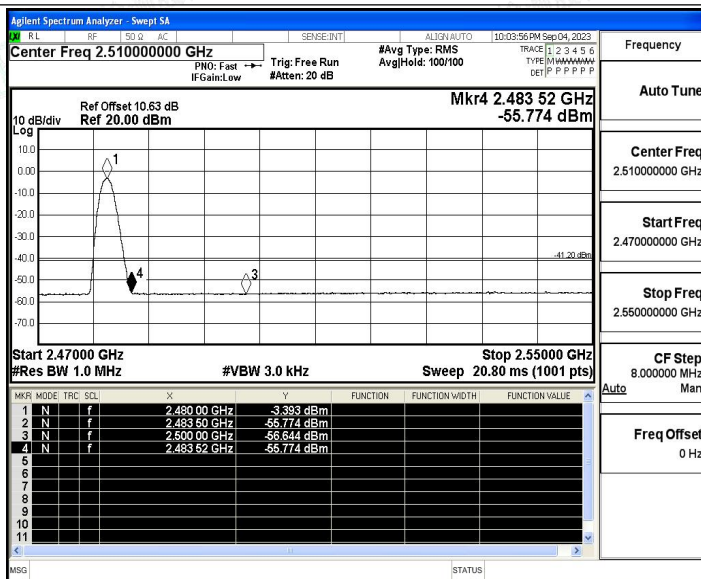


BLE_1M_Ant1_Low_2402_Peak

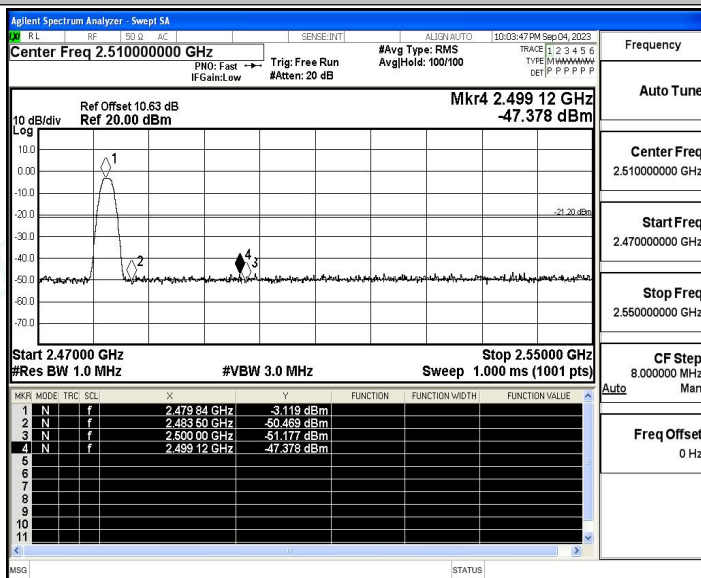


BLE_1M_Ant1_High_2480_AV





BLE_1M_Ant1_High_2480_Peak



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