



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Cat litter box

Test Model: CH-ICB006

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





A.1 DTS Bandwidth

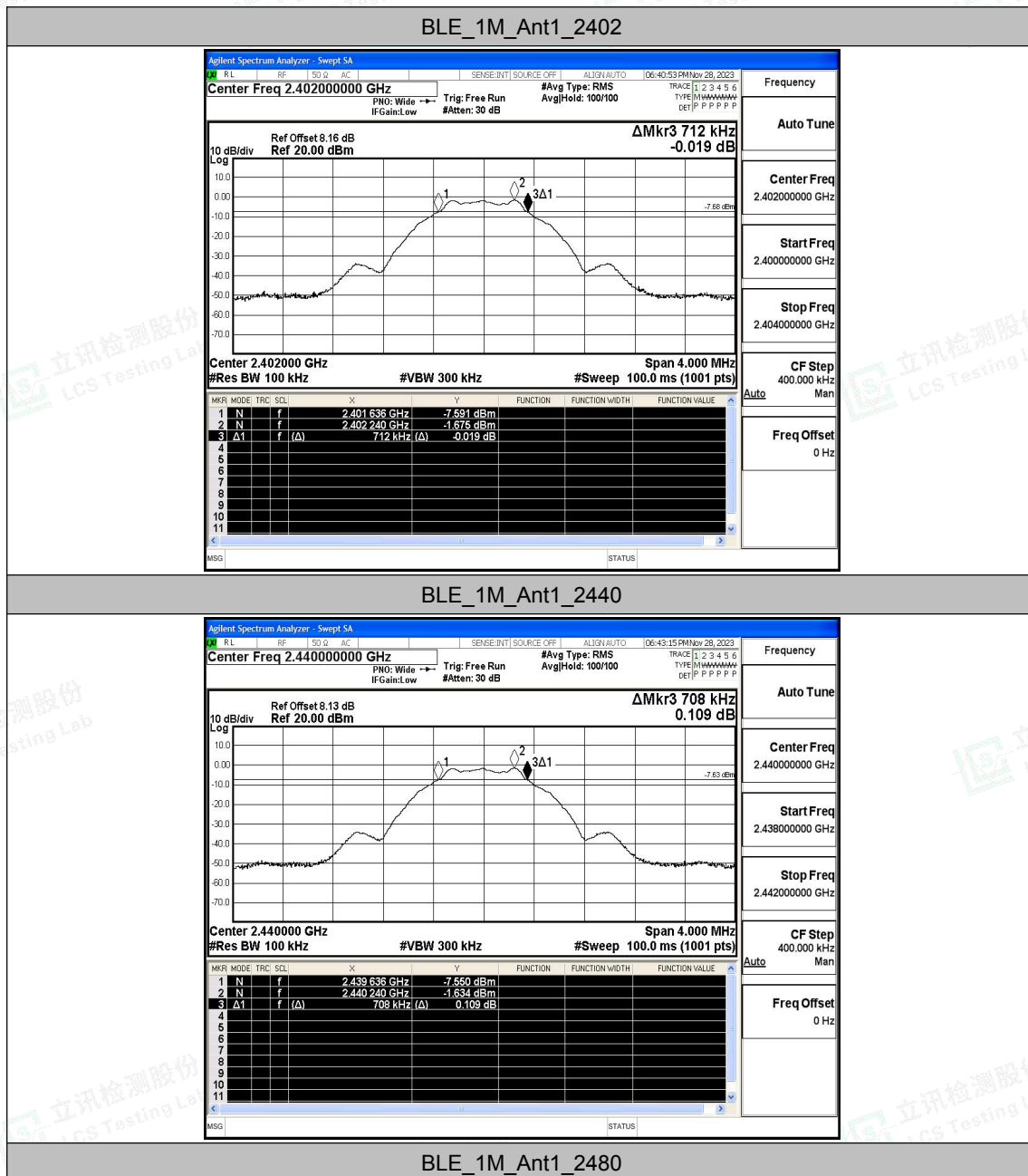
Test Result

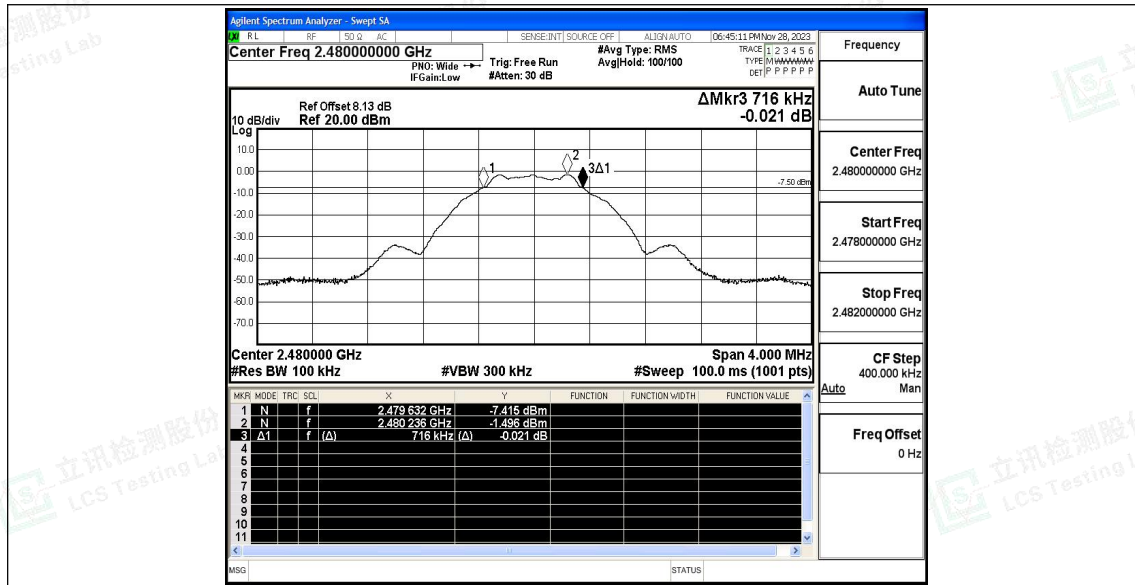
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.712	2401.636	2402.348	0.5	PASS
		2440	0.708	2439.636	2440.344	0.5	PASS
		2480	0.716	2479.632	2480.348	0.5	PASS





Test Graphs







A.2 Maximum peak conducted output power

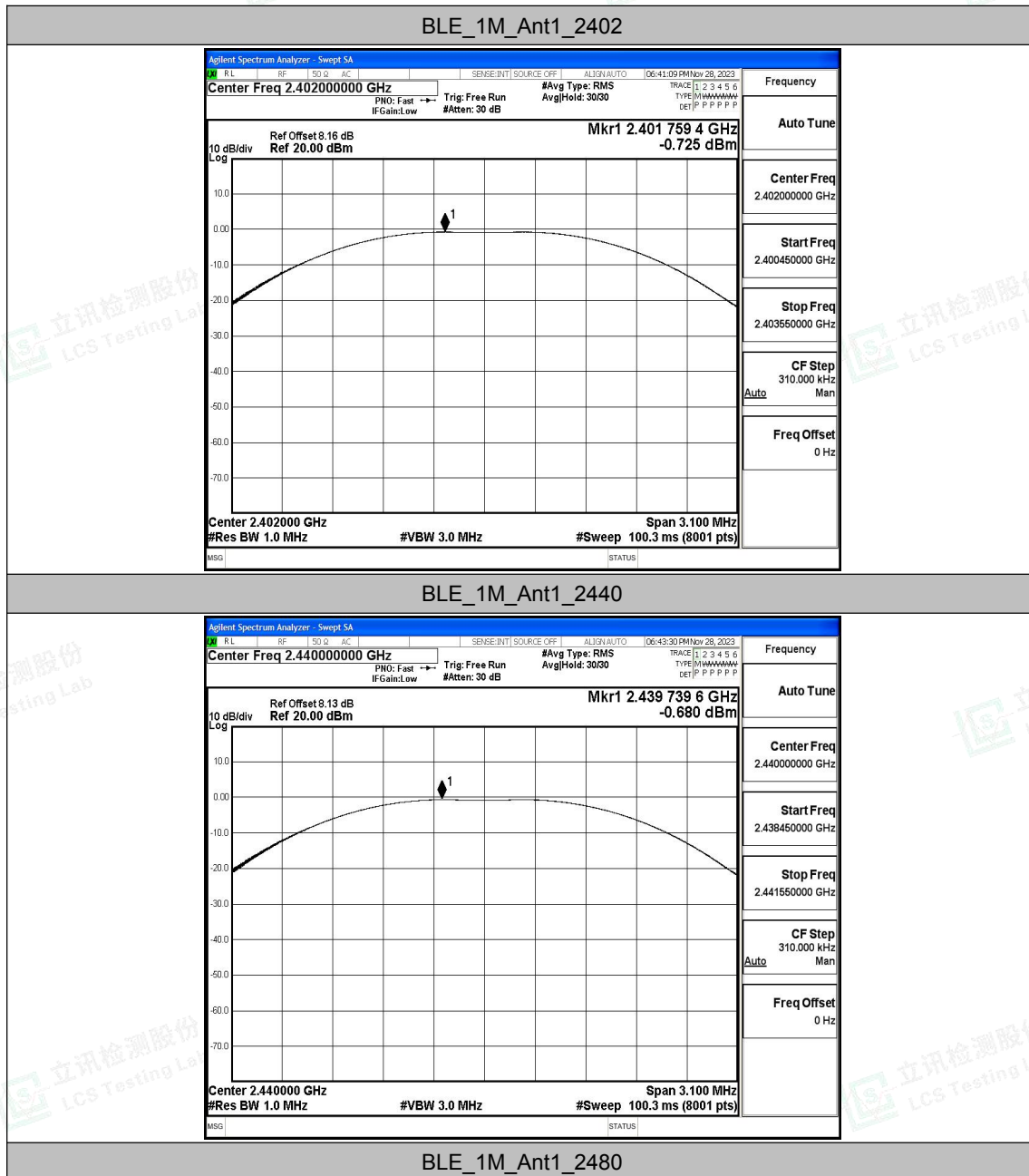
Test Result

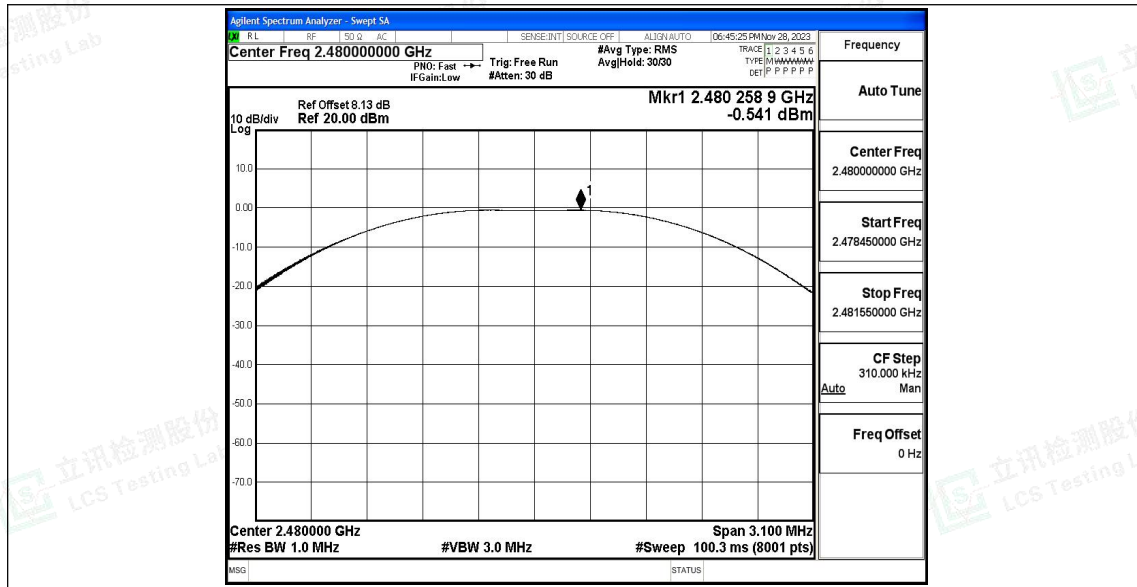
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.73	≤30	PASS
		2440	-0.68	≤30	PASS
		2480	-0.54	≤30	PASS





Test Graphs







A.3 Maximum power spectral density

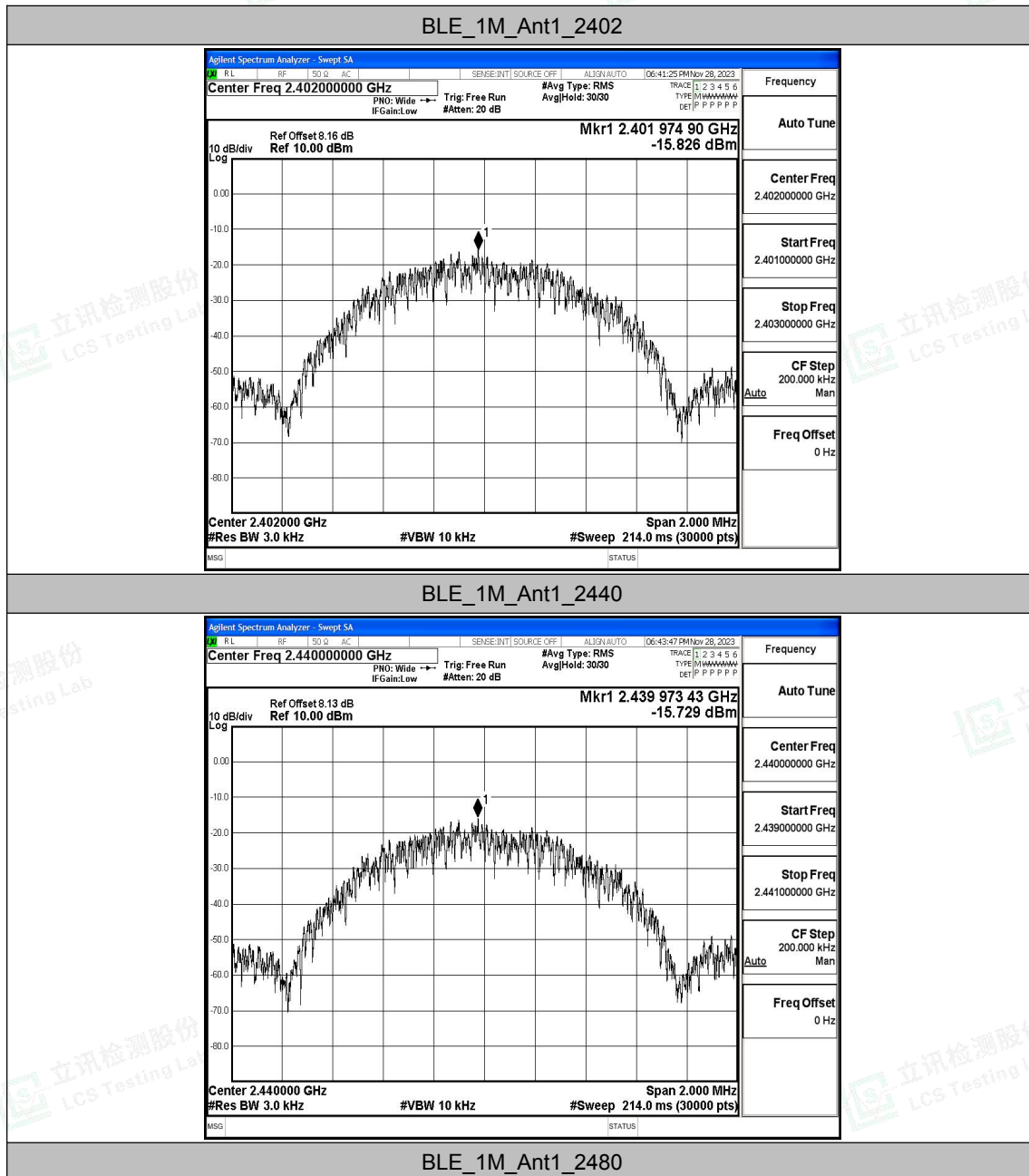
Test Result

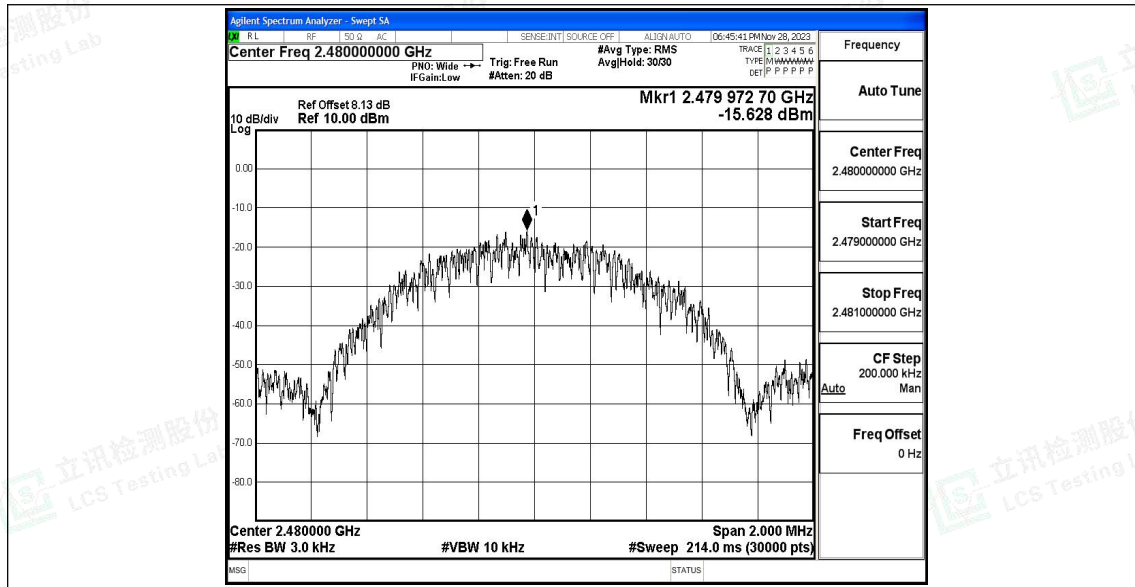
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.83	≤8.00	PASS
		2440	-15.73	≤8.00	PASS
		2480	-15.63	≤8.00	PASS





Test Graphs







A.4 Band edge measurements

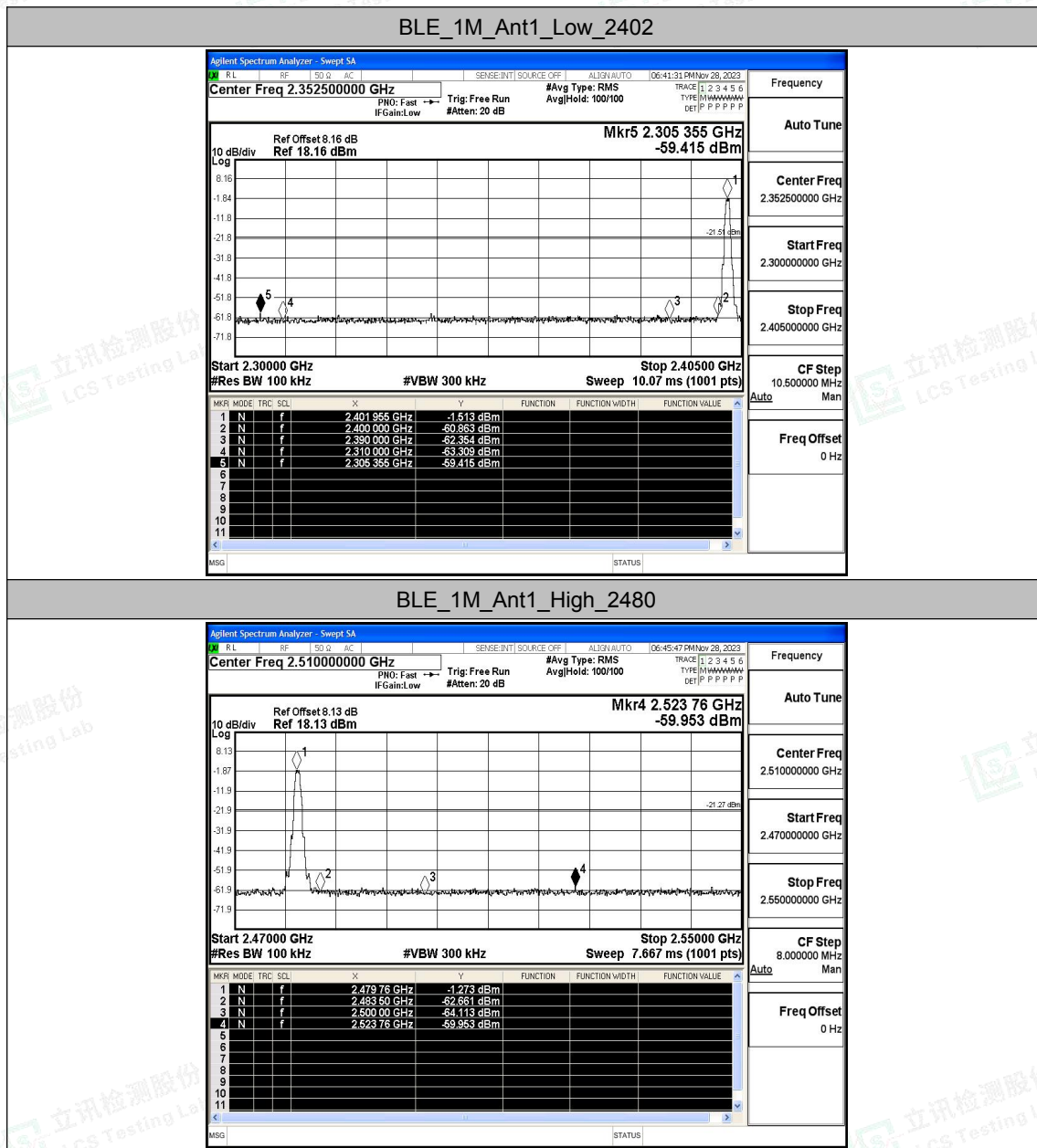
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.51	-59.42	≤ -21.51	PASS
		High	2480	-1.27	-59.95	≤ -21.27	PASS





Test Graphs



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A.5 Conducted Spurious Emission

Test Result

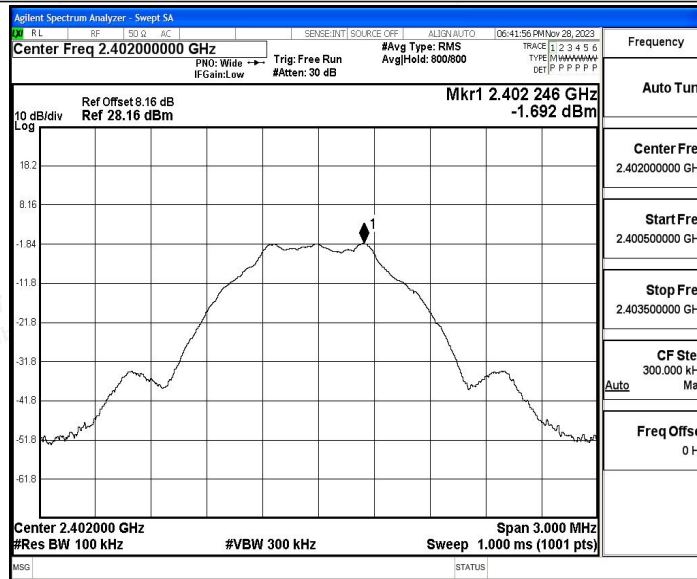
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-62.21	≤-21.69	PASS
			1000~26500	-1.69	-49.21	≤-21.69	PASS
		2440	Reference	-1.62	-1.62	---	PASS
			30~1000	-1.62	-61.61	≤-21.62	PASS
			1000~26500	-1.62	-48.77	≤-21.62	PASS
		2480	Reference	-1.48	-1.48	---	PASS
			30~1000	-1.48	-61.57	≤-21.48	PASS
			1000~26500	-1.48	-48.64	≤-21.48	PASS



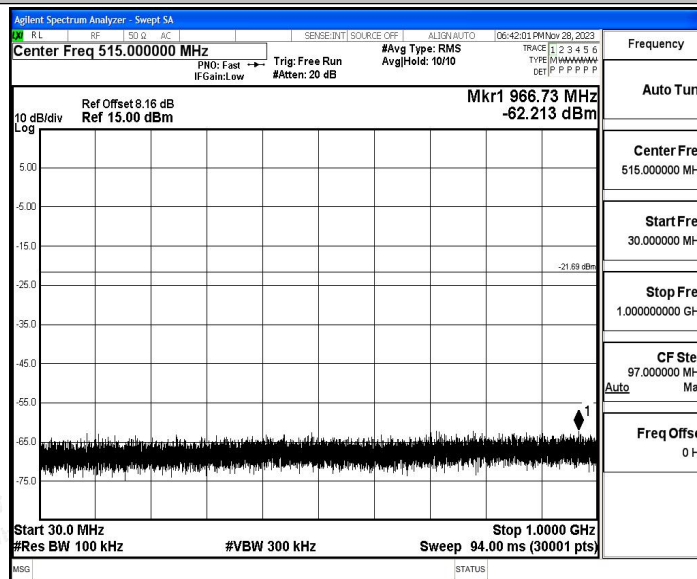


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

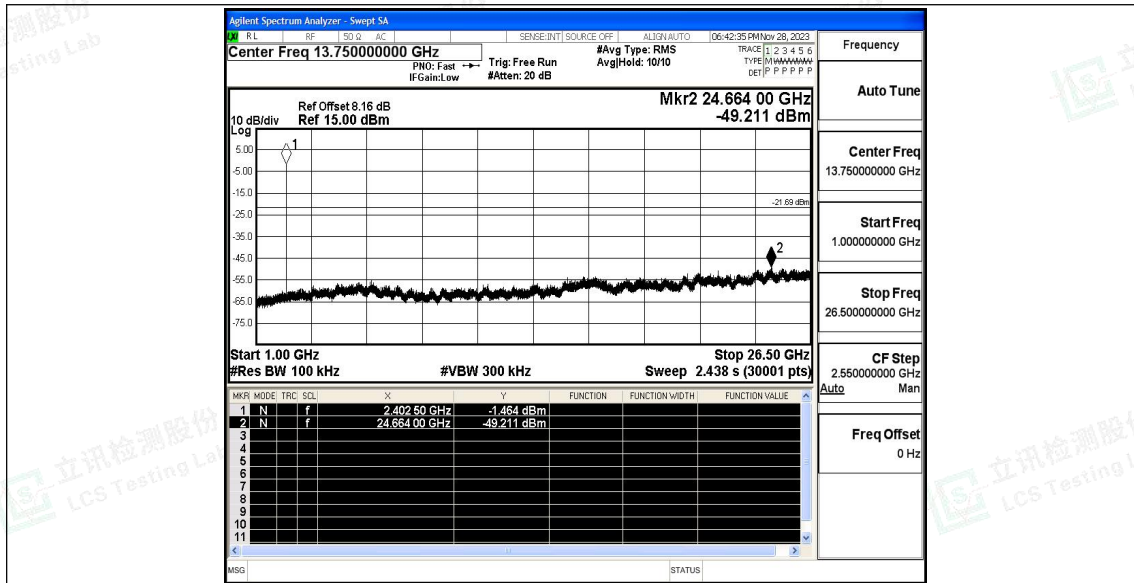


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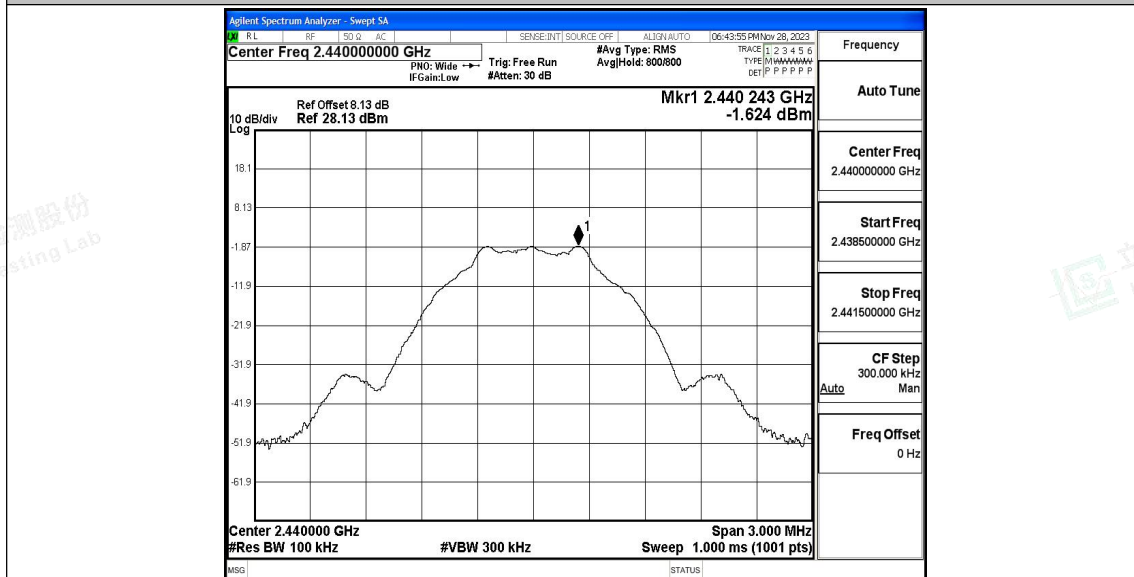
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

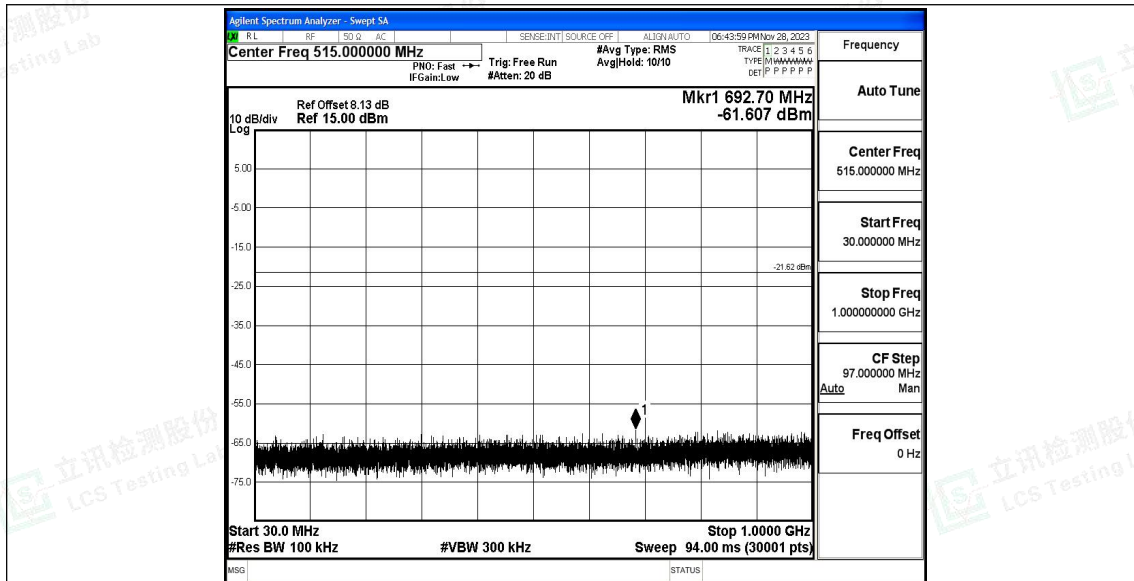


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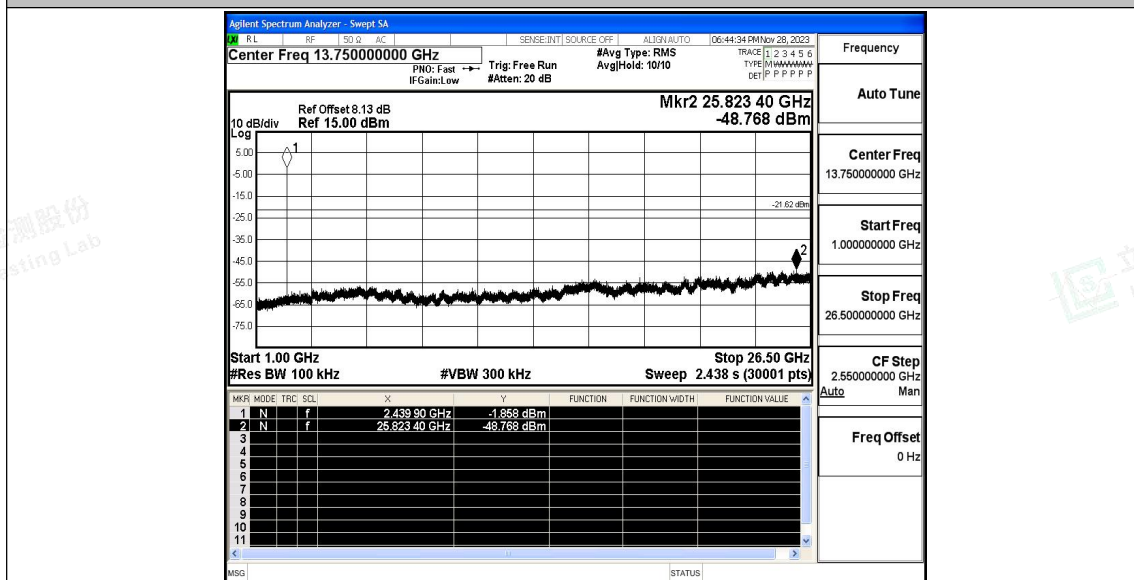
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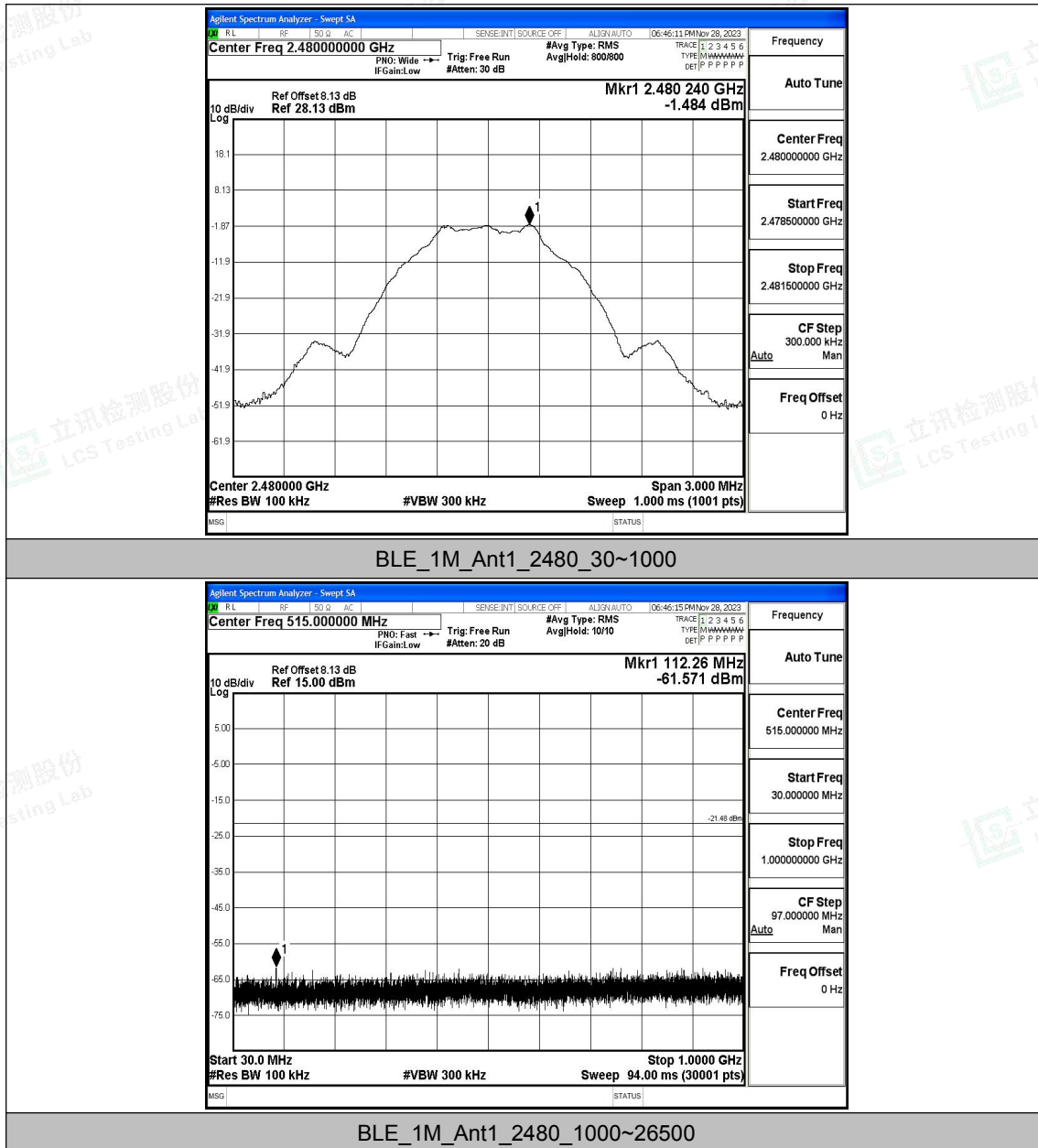


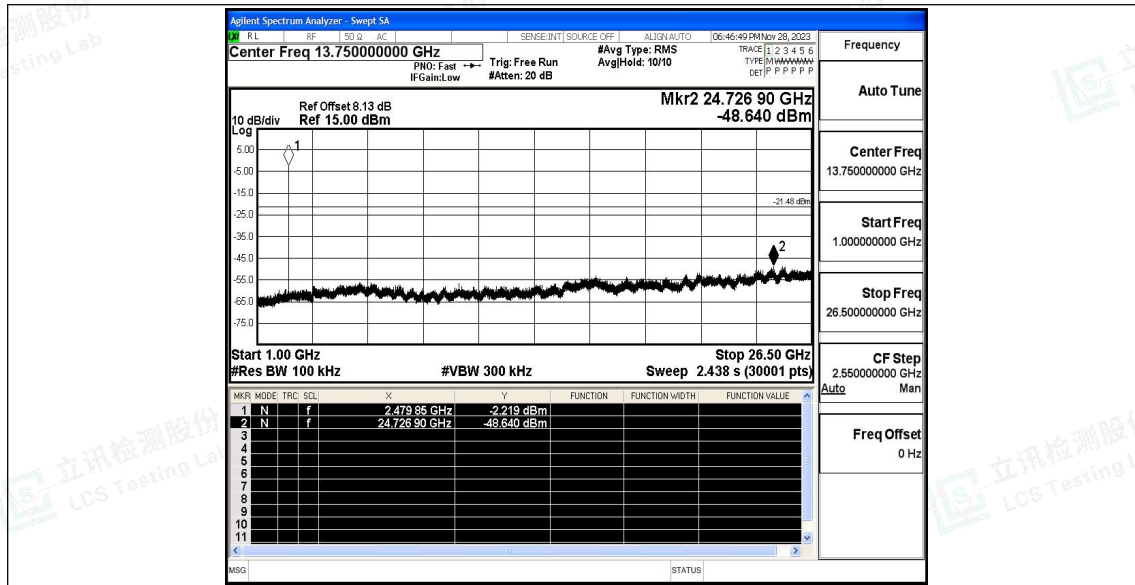
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference









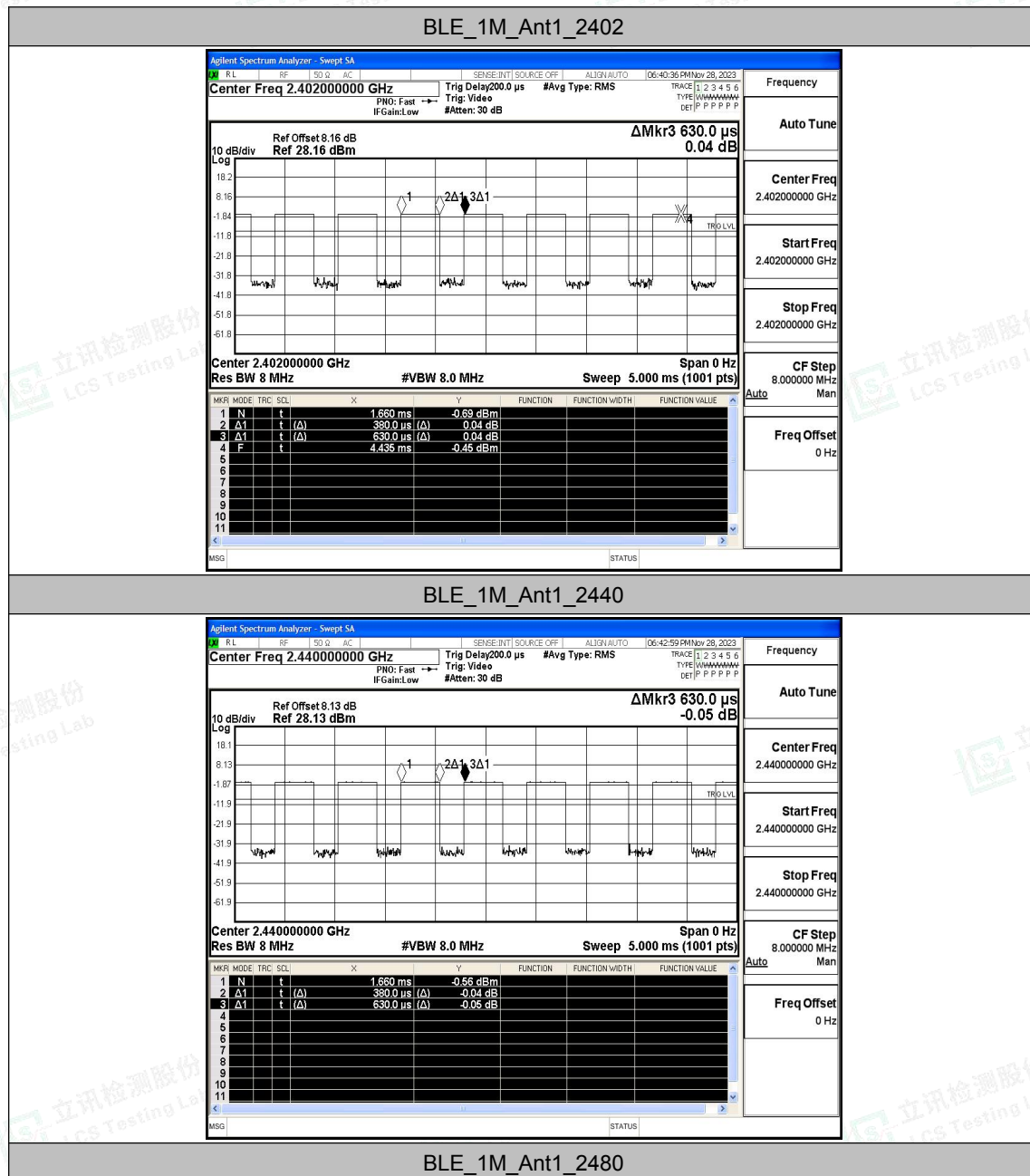
A.6 Duty Cycle

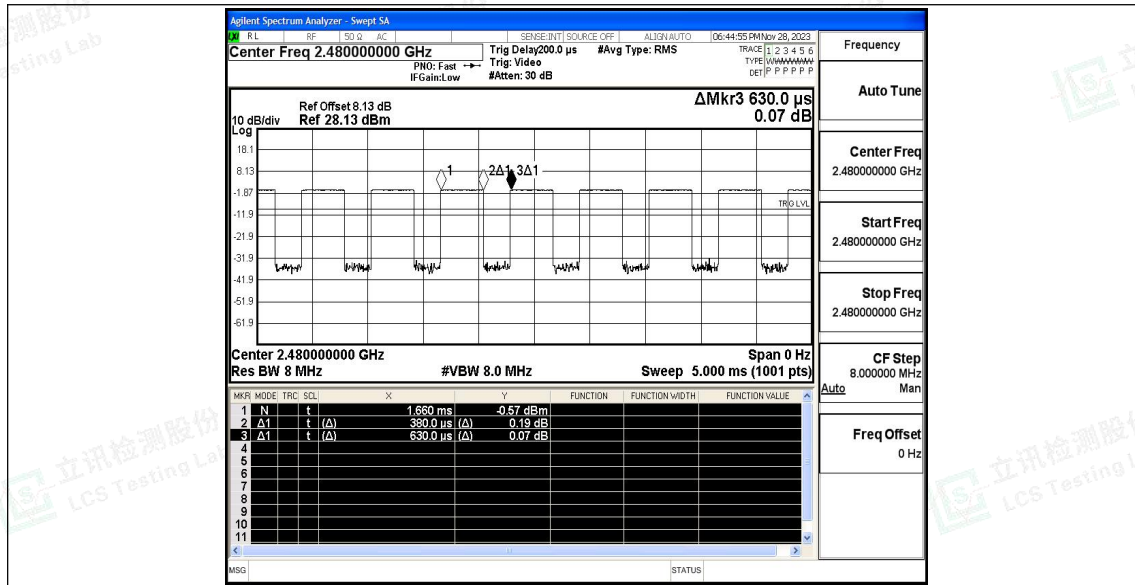
Test Result

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



Test Graphs







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	-58.21	≤-41.20	36.99	≤54	PASS
				AV	2383.265	-57.75	≤-41.20	37.45	≤54	PASS
				AV	2390.000	-57.94	≤-41.20	37.26	≤54	PASS
				Peak	2310.000	-51.56	≤-21.20	43.64	≤74	PASS
				Peak	2362.370	-48.12	≤-21.20	47.08	≤74	PASS
				Peak	2390.000	-52.46	≤-21.20	42.74	≤74	PASS
		High	2480	AV	2483.500	-54.39	≤-41.20	40.81	≤54	PASS
				AV	2483.520	-54.39	≤-41.20	40.81	≤54	PASS
				AV	2500.000	-57.86	≤-41.20	37.34	≤54	PASS
				Peak	2483.500	-49.56	≤-21.20	45.64	≤74	PASS
				Peak	2483.600	-48.65	≤-21.20	46.55	≤74	PASS
				Peak	2500.000	-51.97	≤-21.20	43.23	≤74	PASS

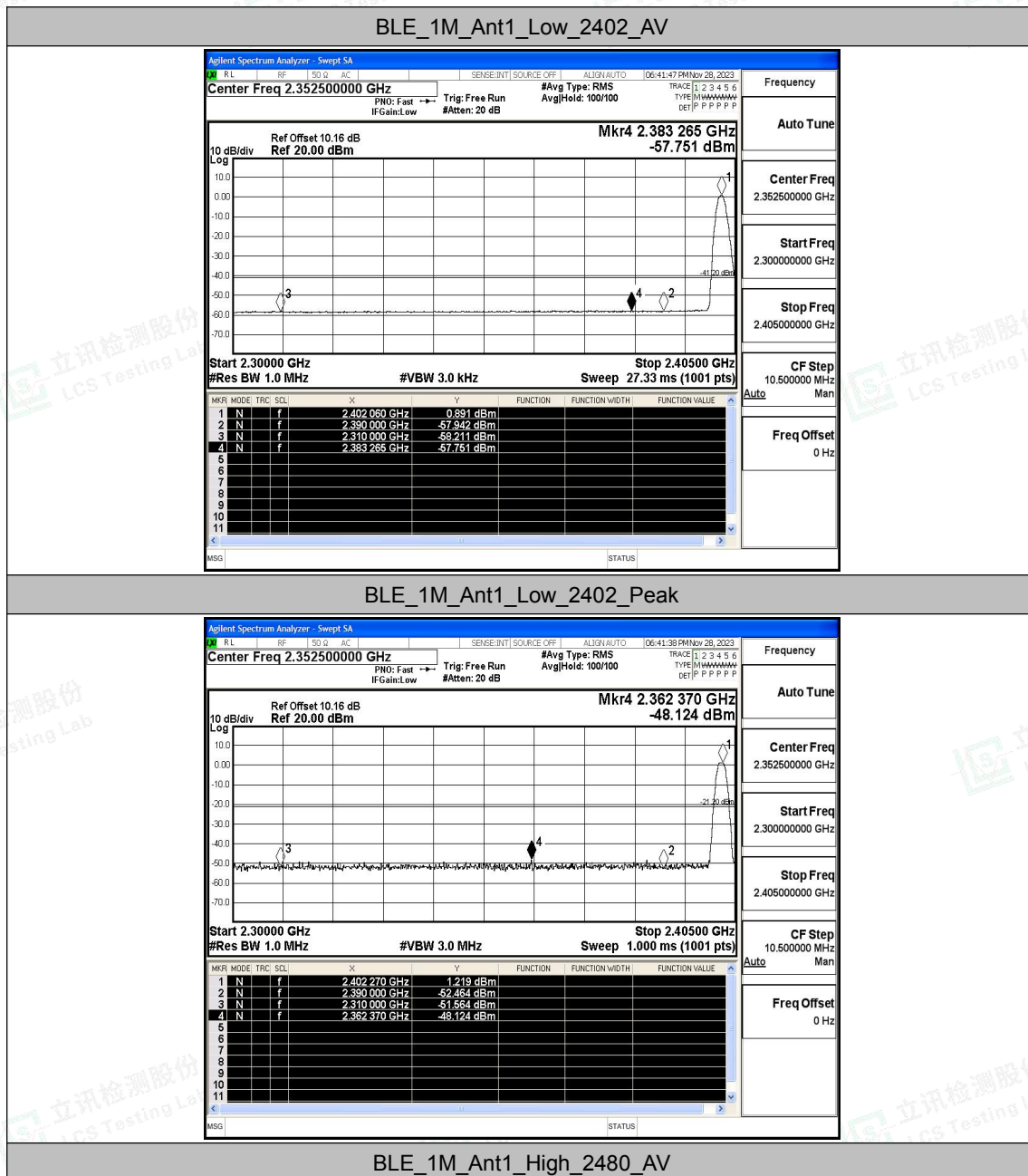
Note:

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

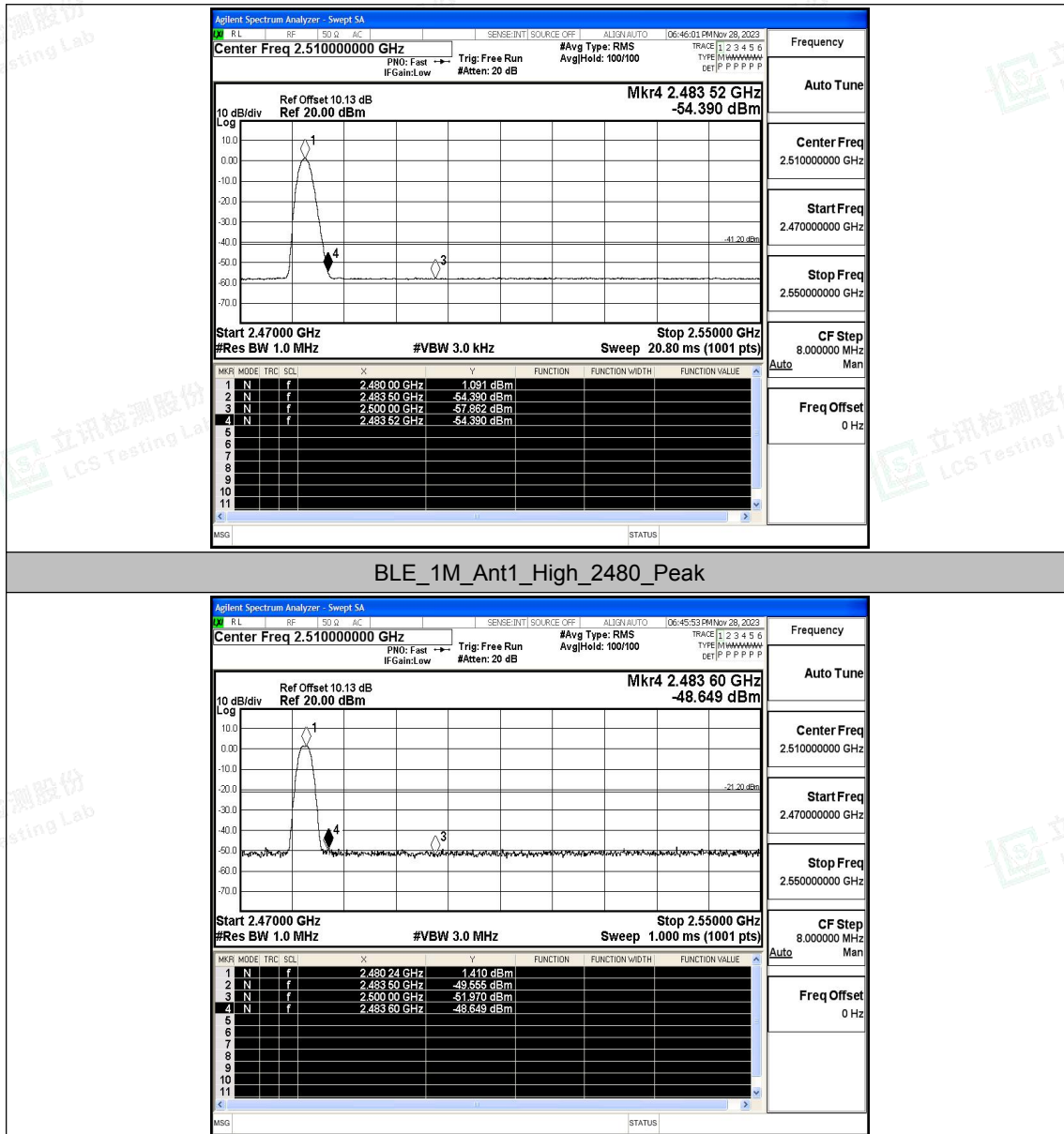


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