



Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: Wireless game controller

Test Model: 9083s

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu



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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	0.716	2439.632	2440.348	0.5	PASS
		2480	0.716	2479.632	2480.348	0.5	PASS



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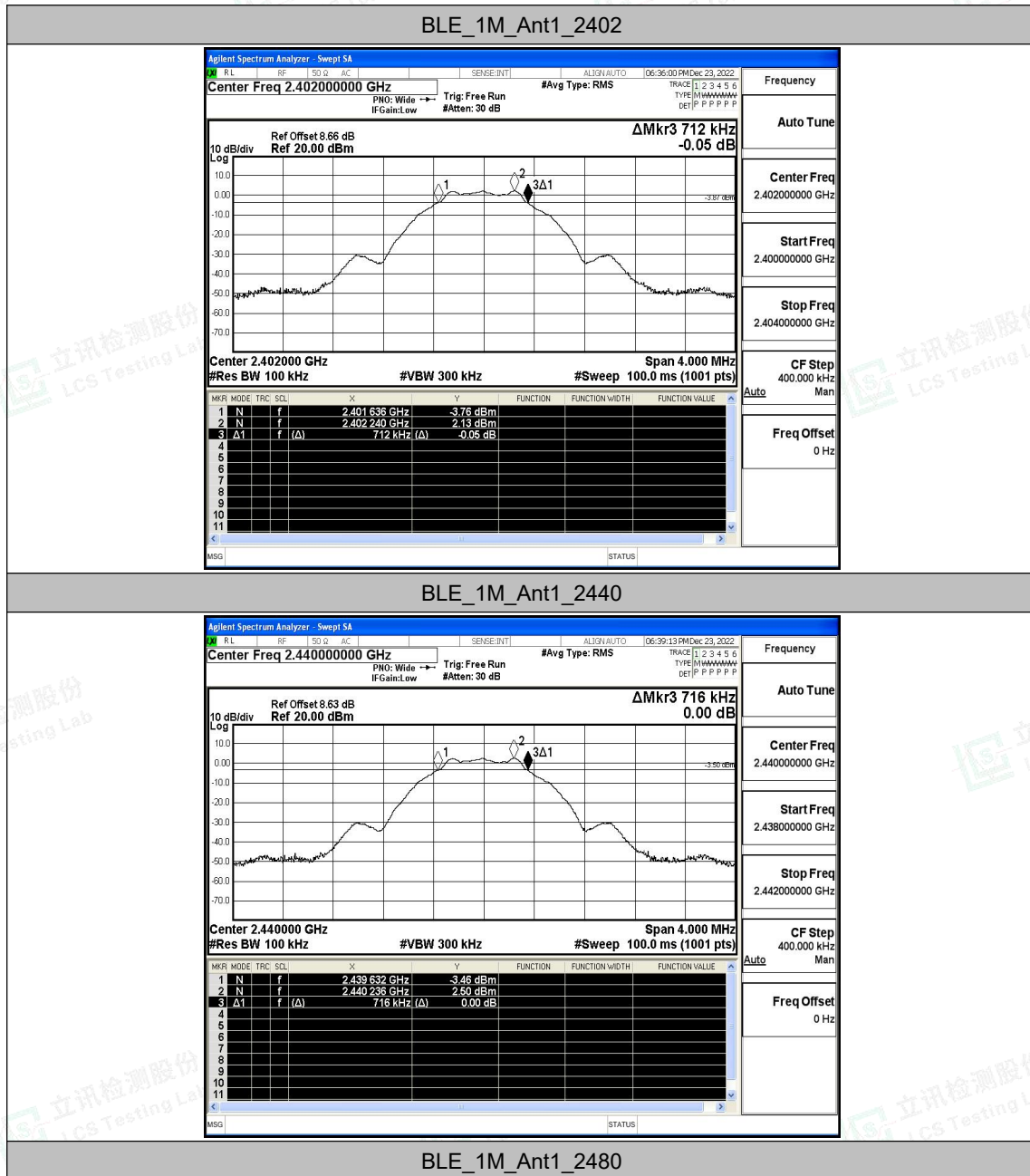
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Test Graphs

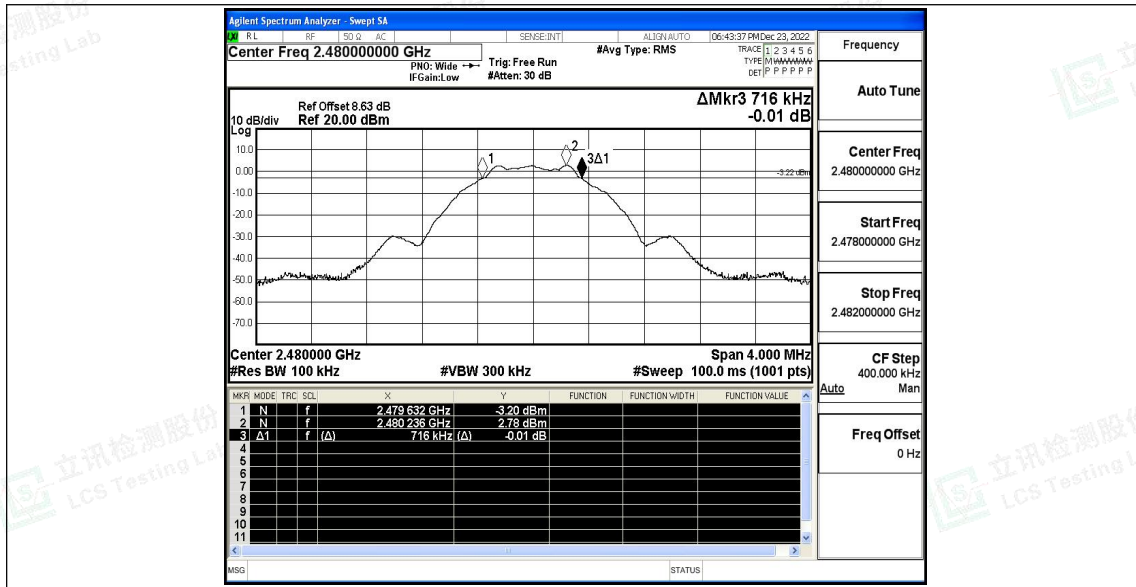


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.08	≤30	PASS
		2440	3.48	≤30	PASS
		2480	3.71	≤30	PASS



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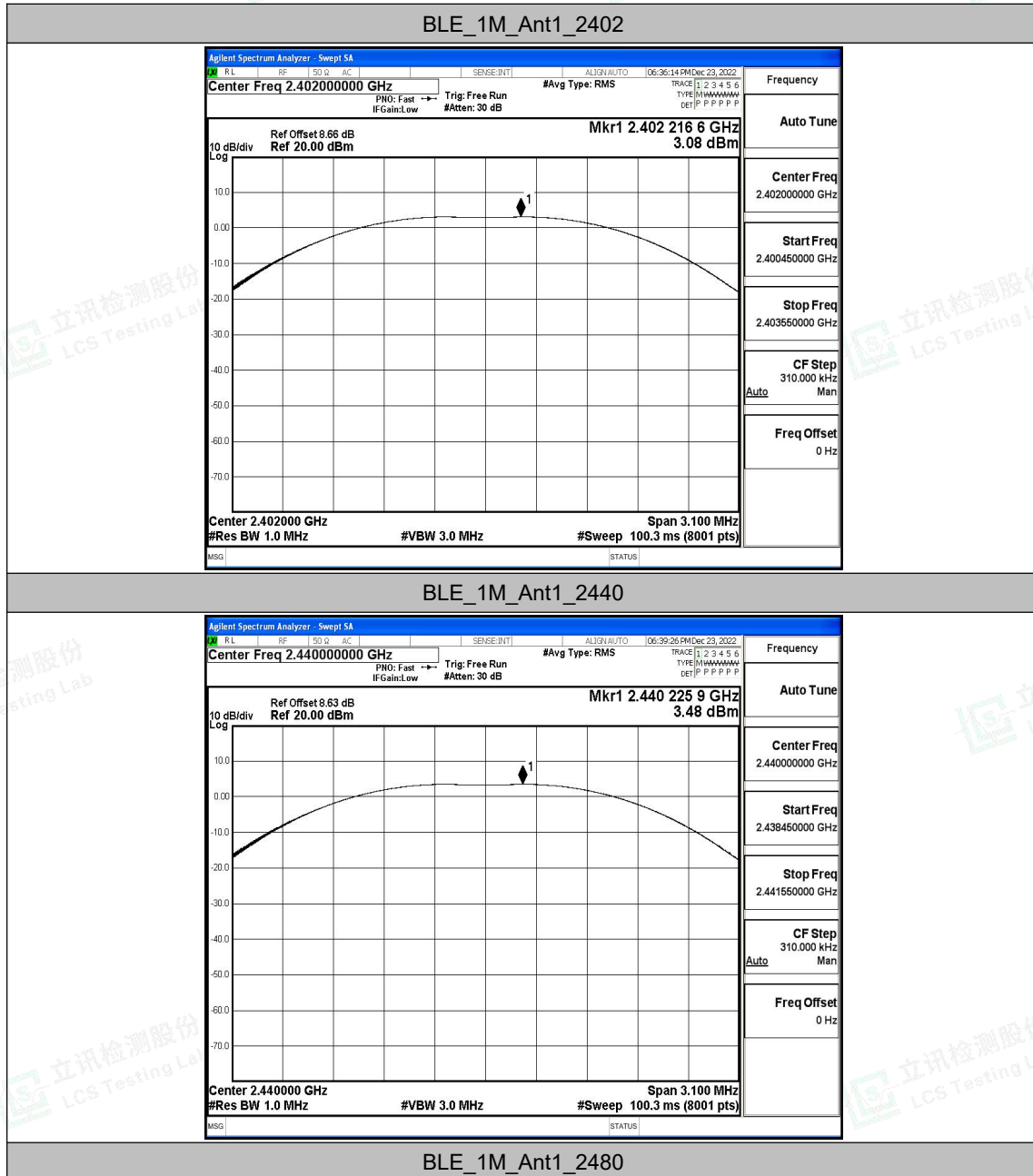
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Test Graphs

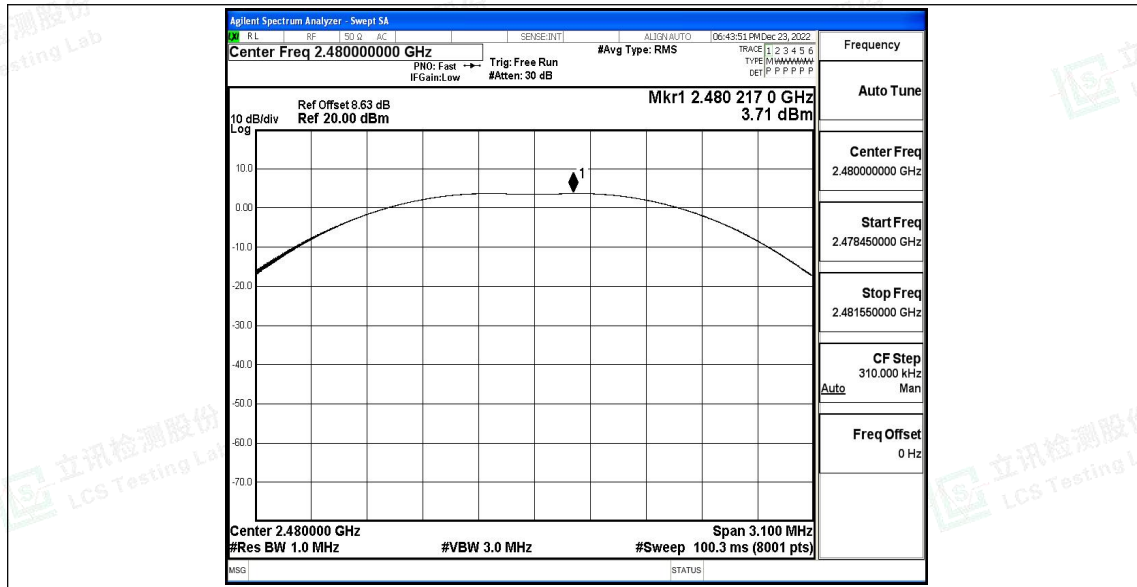


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A.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.97	≤8.00	PASS
		2440	-11.5	≤8.00	PASS
		2480	-11.4	≤8.00	PASS



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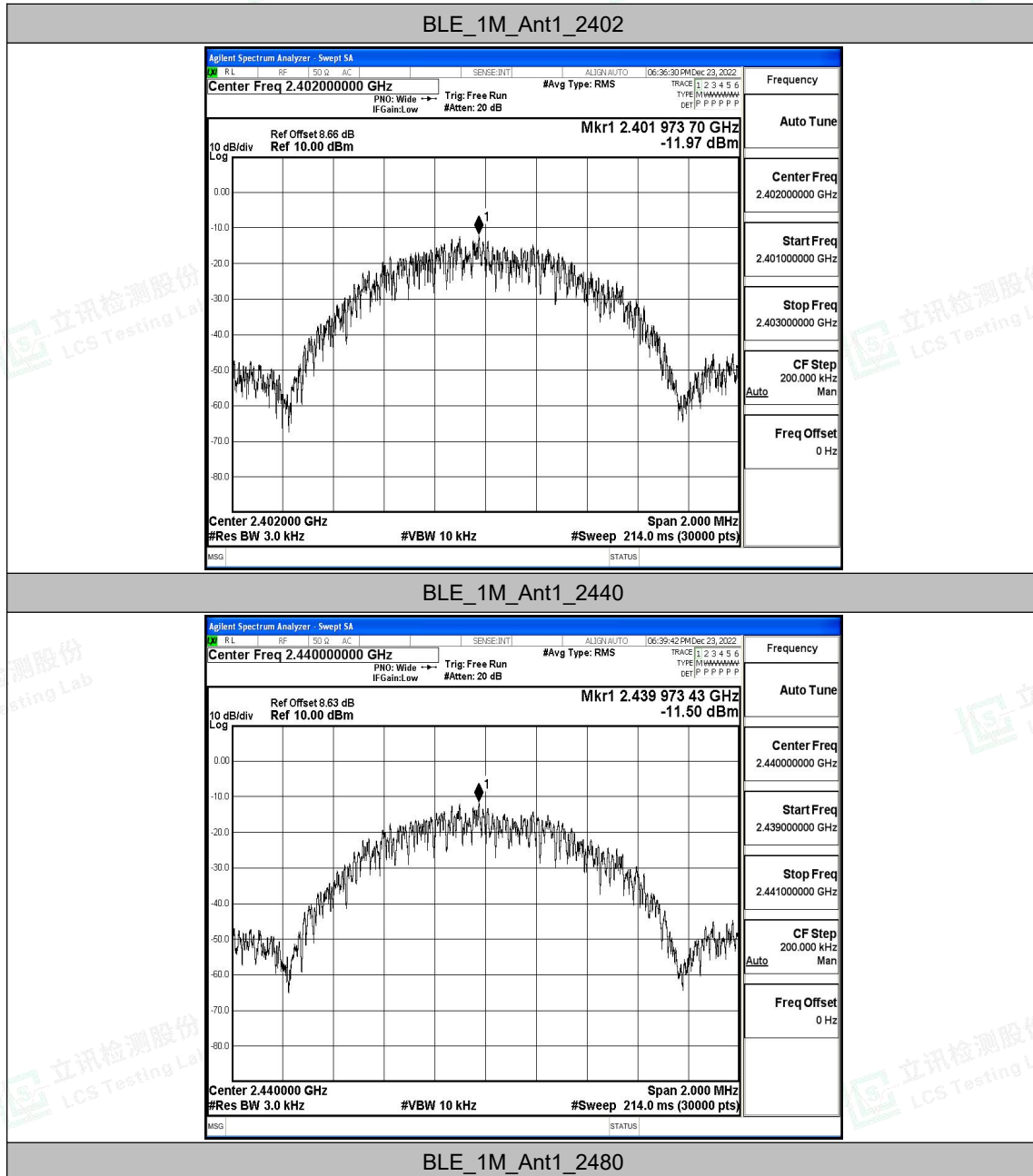
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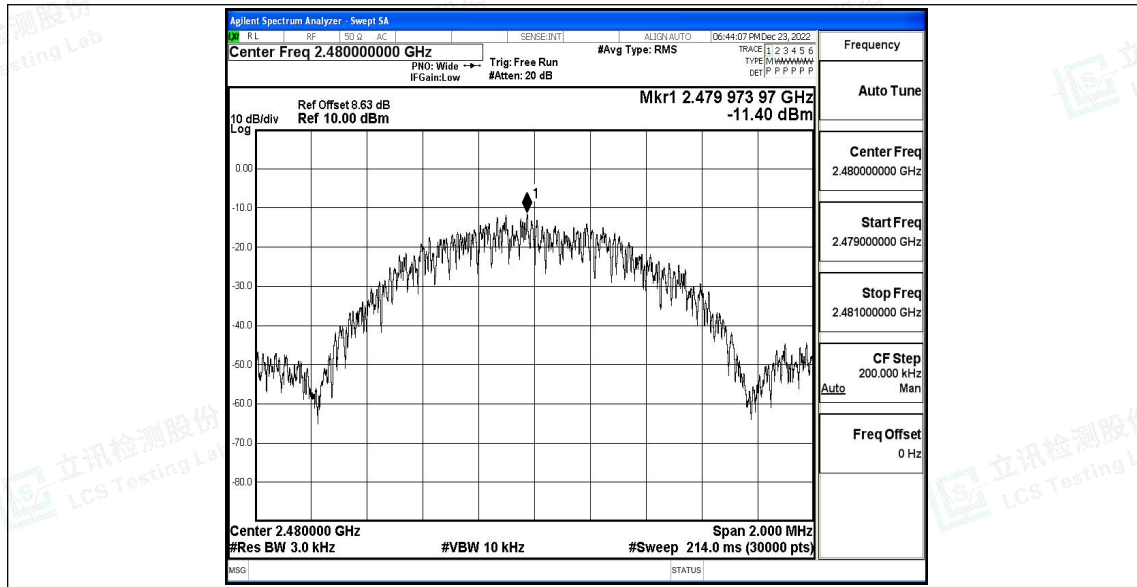


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A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.52	-58.09	≤-18.49	PASS
		High	2480	2.81	-58.41	≤-17.19	PASS



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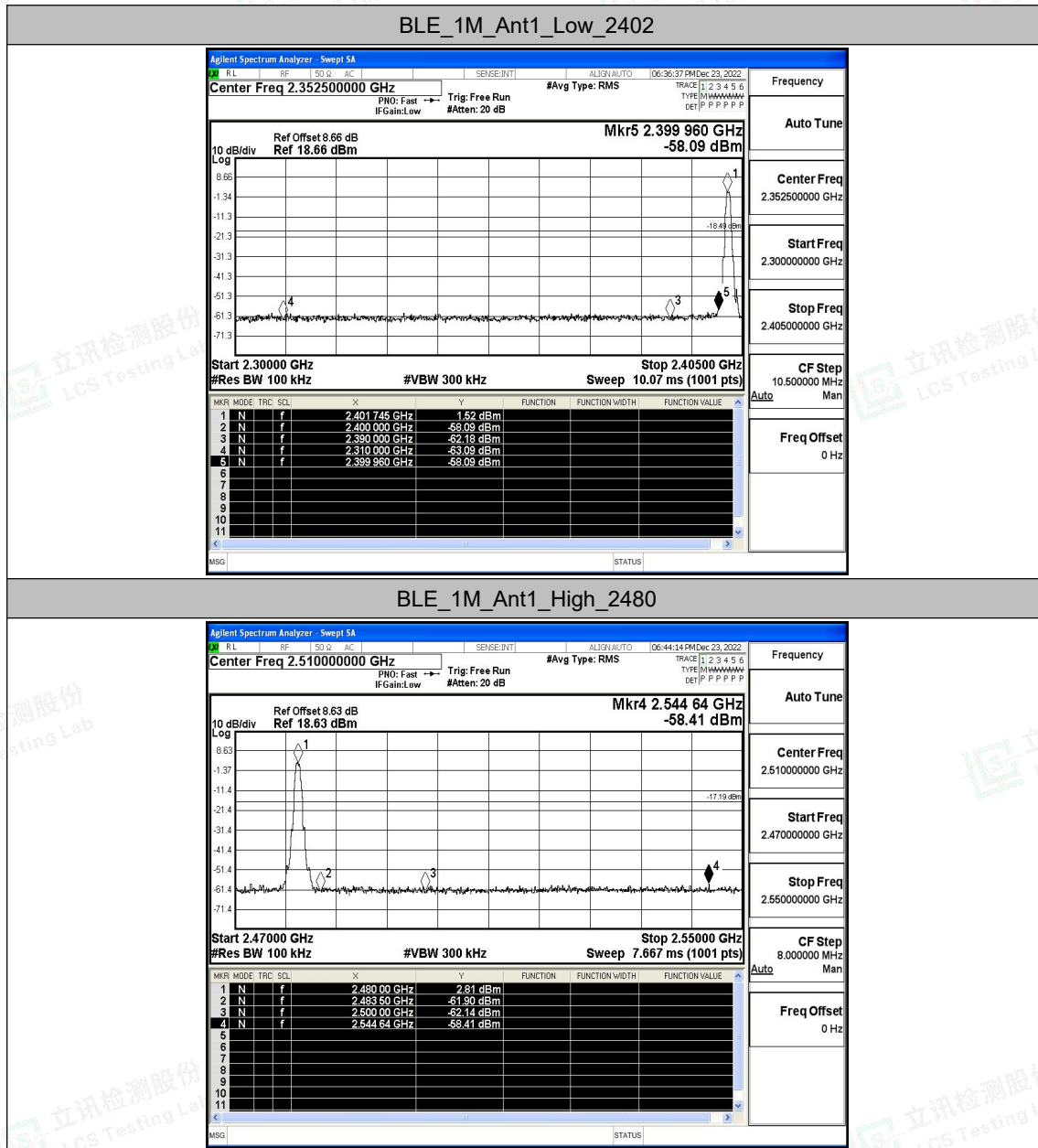
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Test Graphs



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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	1.01	1.01	---	PASS
			30~1000	1.01	-61.4	≤-18.99	PASS
			1000~26500	1.01	-46.32	≤-18.99	PASS
		2440	Reference	2.06	2.06	---	PASS
			30~1000	2.06	-60.69	≤-17.94	PASS
			1000~26500	2.06	-46.5	≤-17.94	PASS
		2480	Reference	2.62	2.62	---	PASS
			30~1000	2.62	-60.73	≤-17.38	PASS
			1000~26500	2.62	-46.1	≤-17.38	PASS



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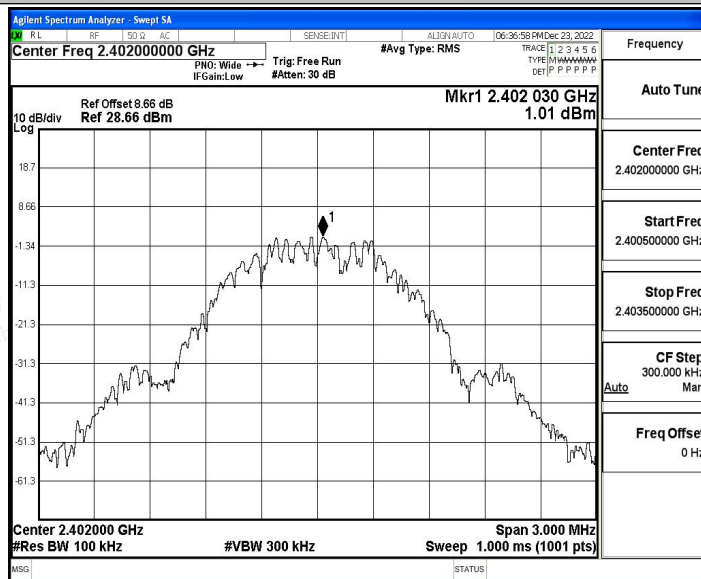
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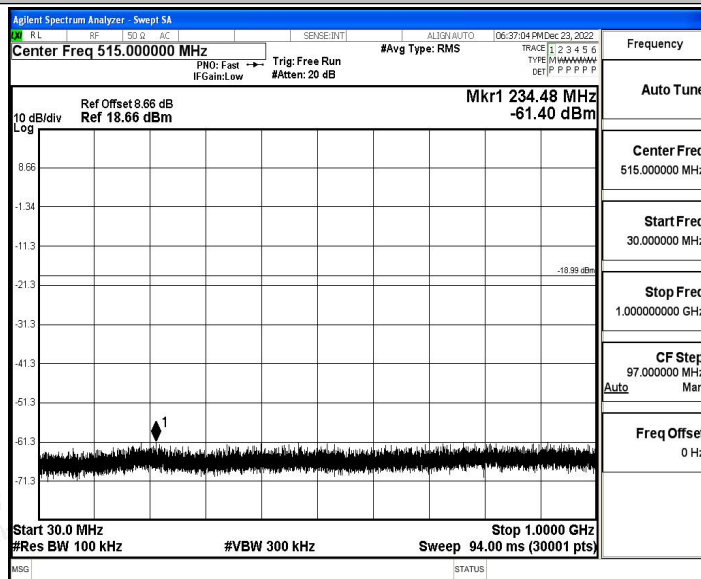


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

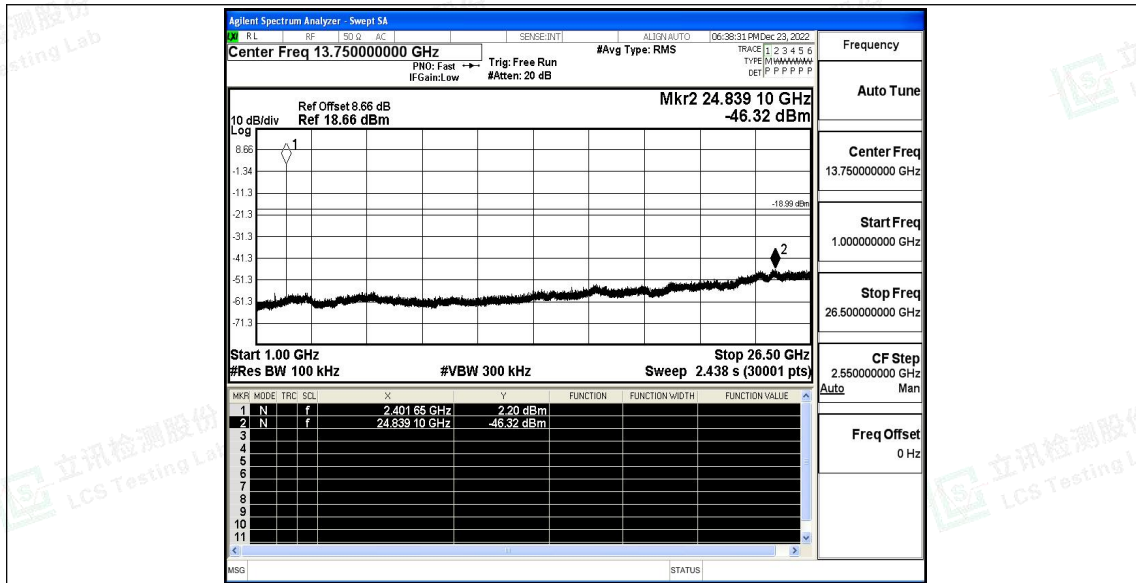


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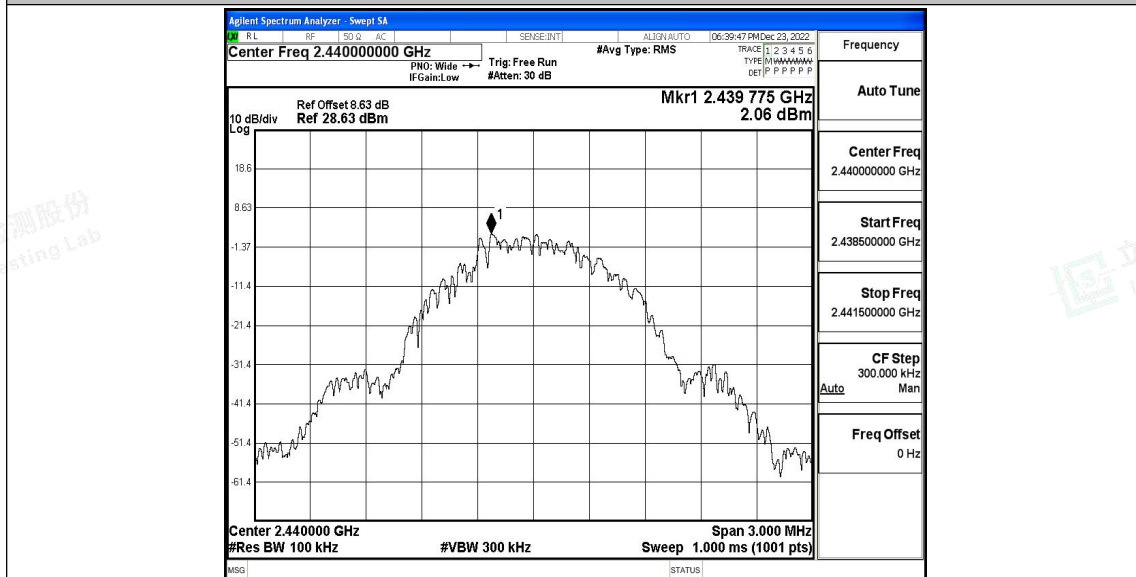
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

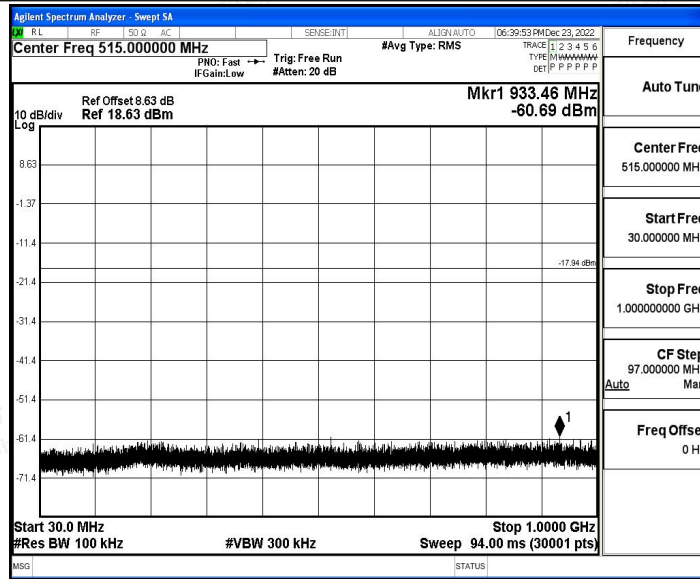


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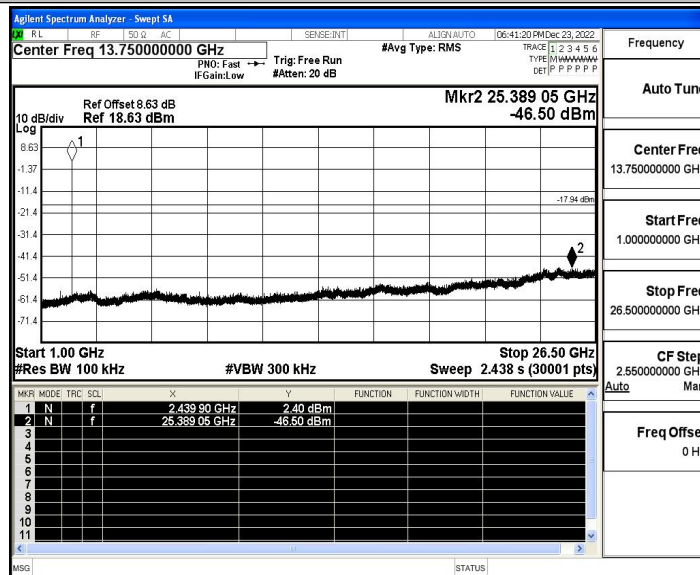
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



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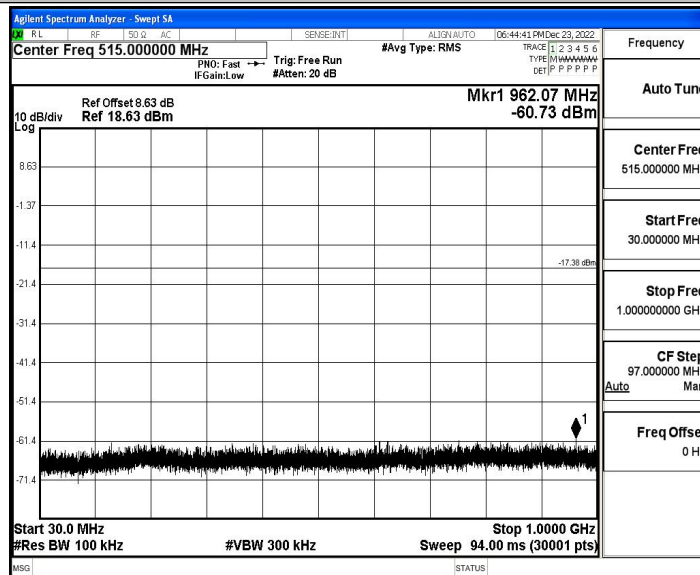
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

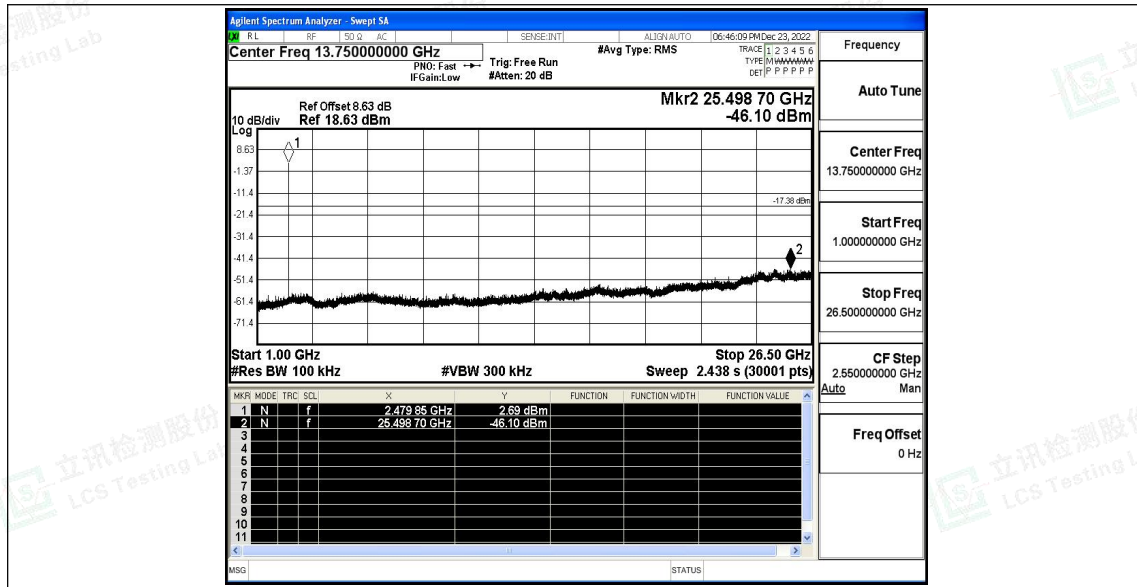


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A.6 Duty Cycle

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	---	PASS
		2440	0.38	0.63	0.6032	60.32	2.20	2.63	---	PASS
		2480	0.39	0.63	0.6190	61.90	2.08	2.56	---	PASS



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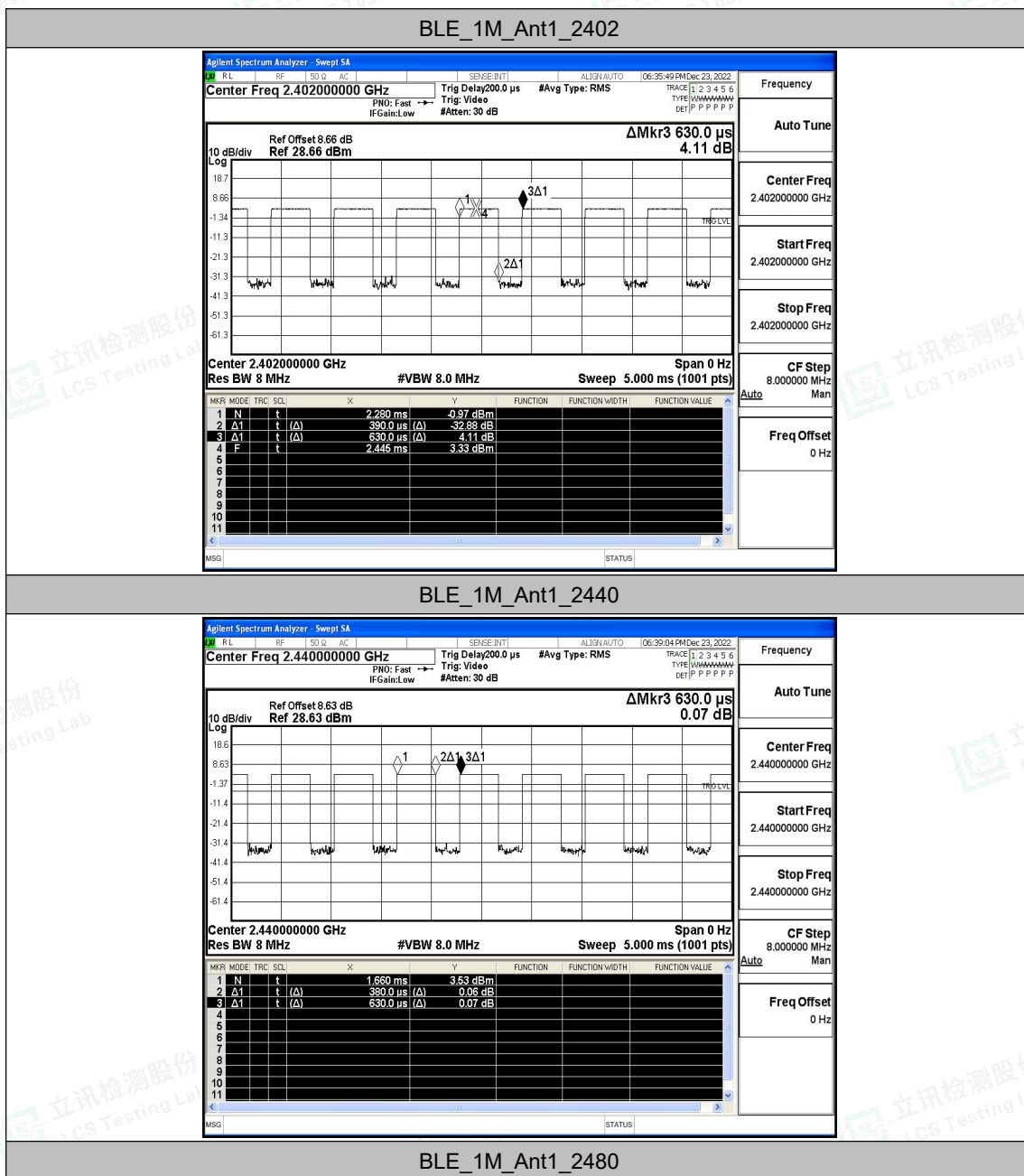
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Test Graphs

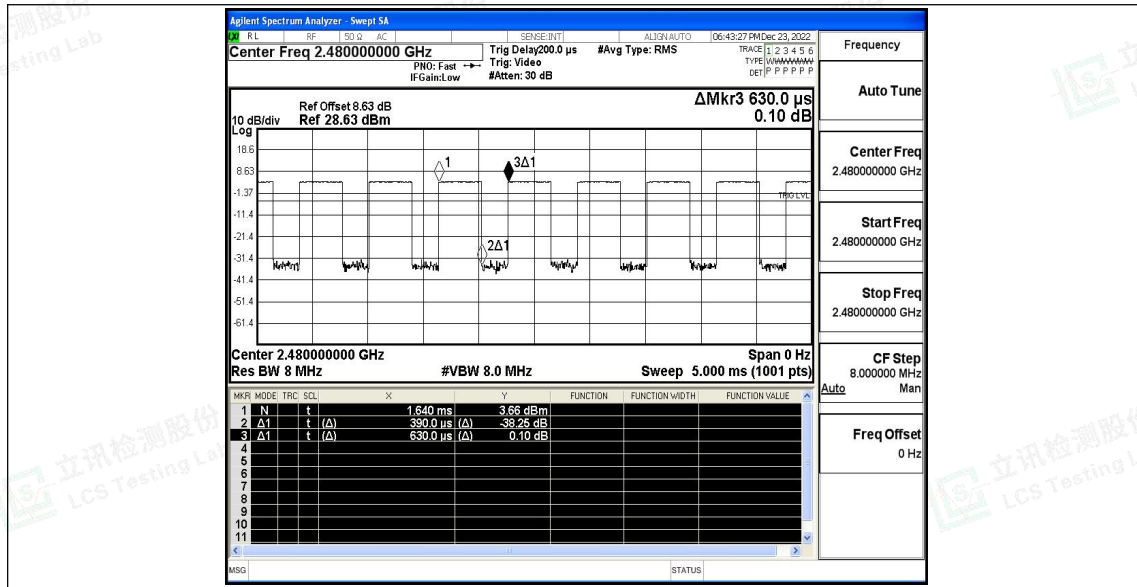


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A.7 Emissions in Restricted Bands

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	-57.65	≤-41.20	37.55	≤54	PASS
				AV	2387.885	-56.48	≤-41.20	38.72	≤54	PASS
				AV	2390.000	-57.09	≤-41.20	38.11	≤54	PASS
				Peak	2310.000	-48.87	≤-21.20	46.33	≤74	PASS
				Peak	2337.065	-48.09	≤-21.20	47.11	≤74	PASS
				Peak	2390.000	-50.05	≤-21.20	45.15	≤74	PASS
		High	2480	AV	2483.500	-50.91	≤-41.20	44.29	≤54	PASS
				AV	2483.520	-50.91	≤-41.20	44.29	≤54	PASS
				AV	2500.000	-56.14	≤-41.20	39.06	≤54	PASS
				Peak	2483.500	-49.88	≤-21.20	45.32	≤74	PASS
				Peak	2493.760	-47.24	≤-21.20	47.96	≤74	PASS
				Peak	2500.000	-50.48	≤-21.20	44.72	≤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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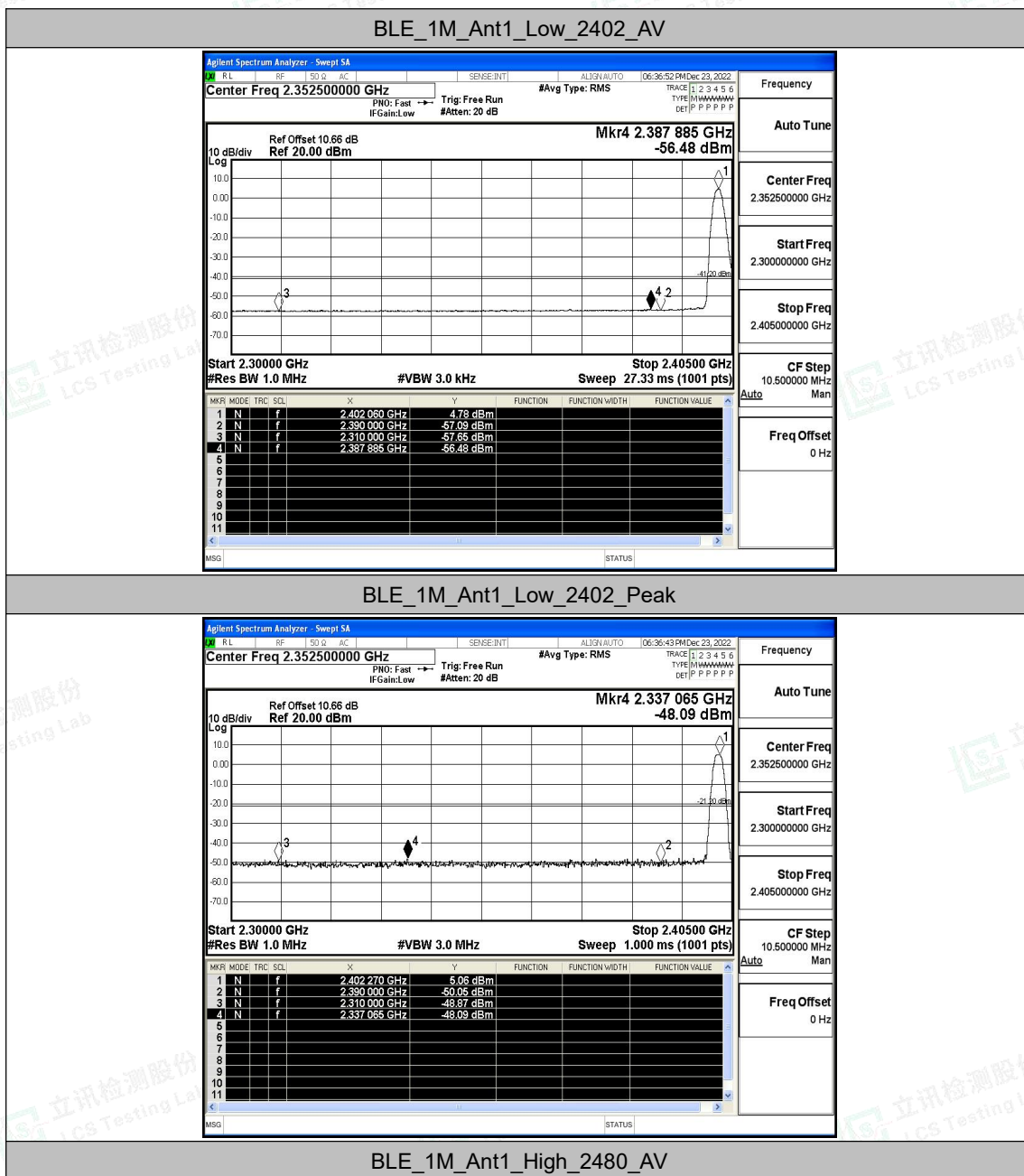
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Test Graphs

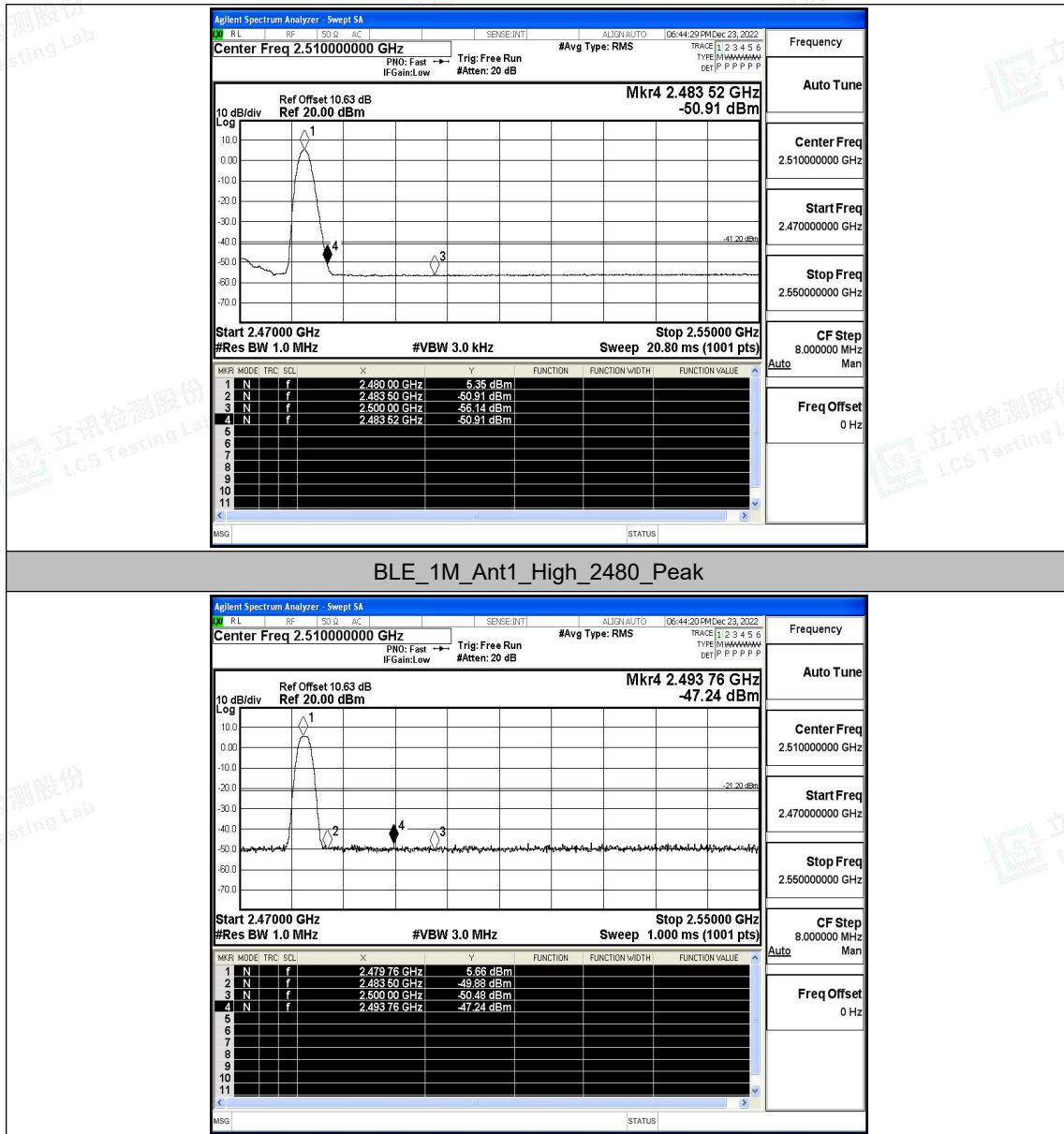


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