



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Smart phone

Test Model: Smooth 5.5 Max

Environmental Conditions

Temperature:	22.5° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





B.1 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.668	2402.332	0.5	PASS
		2440	0.664	2439.668	2440.332	0.5	PASS
		2480	0.668	2479.664	2480.332	0.5	PASS



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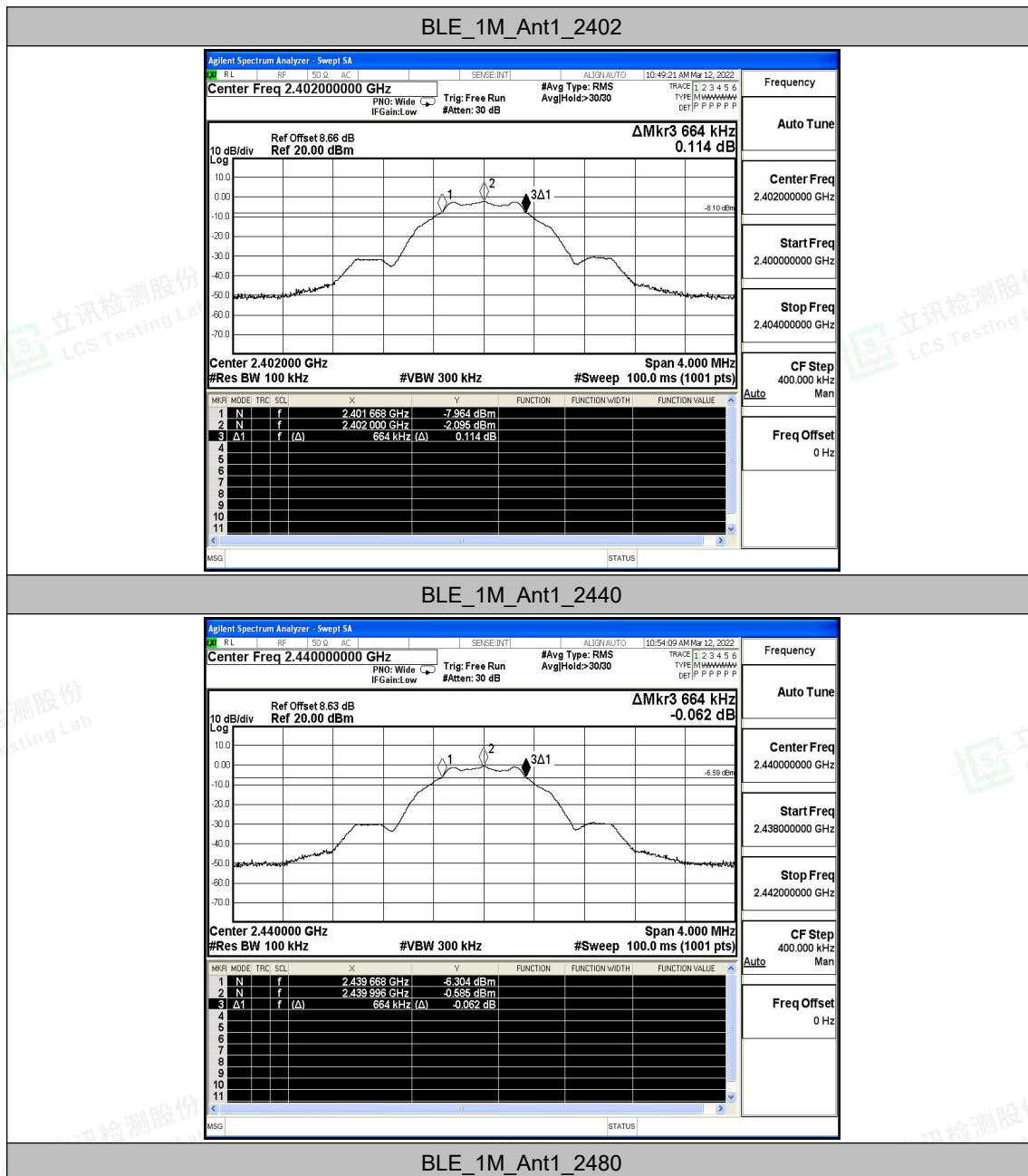
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Test Graphs

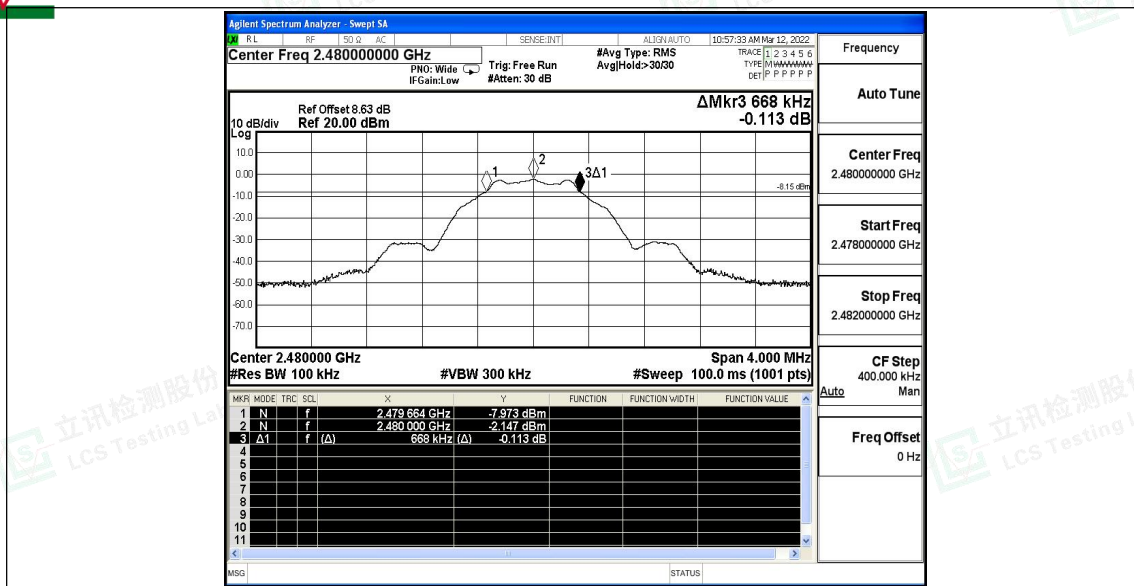


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B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.51	≤30	PASS
		2440	-0.04	≤30	PASS
		2480	-1.57	≤30	PASS



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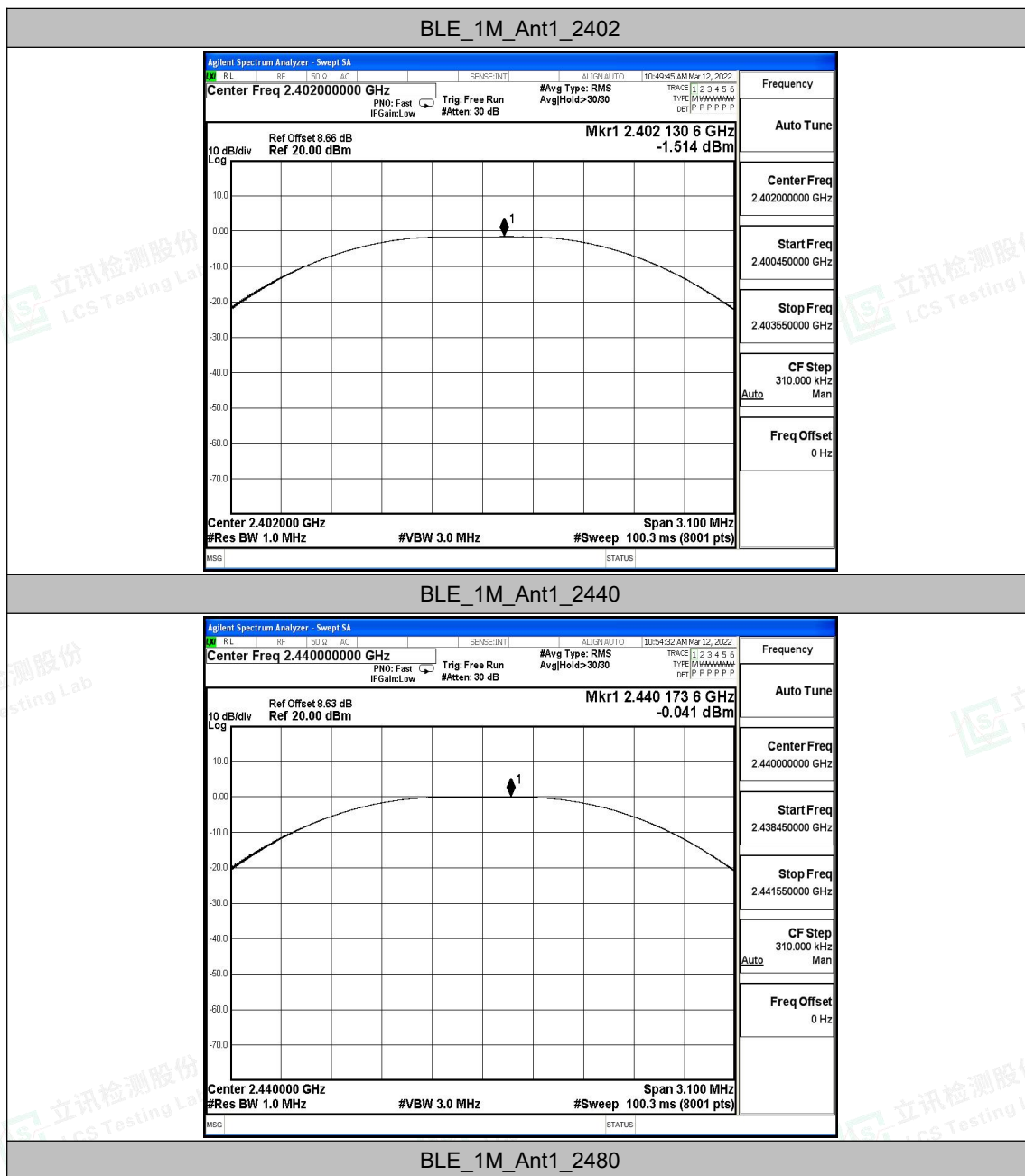
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Test Graphs

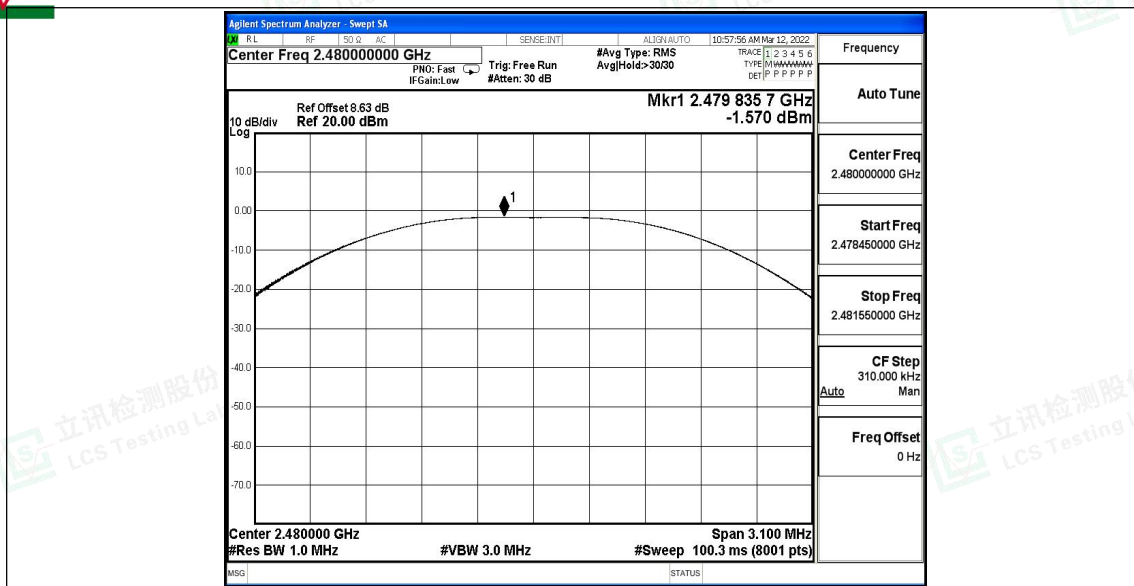


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B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.27	≤8.00	PASS
		2440	-14.84	≤8.00	PASS
		2480	-16.37	≤8.00	PASS



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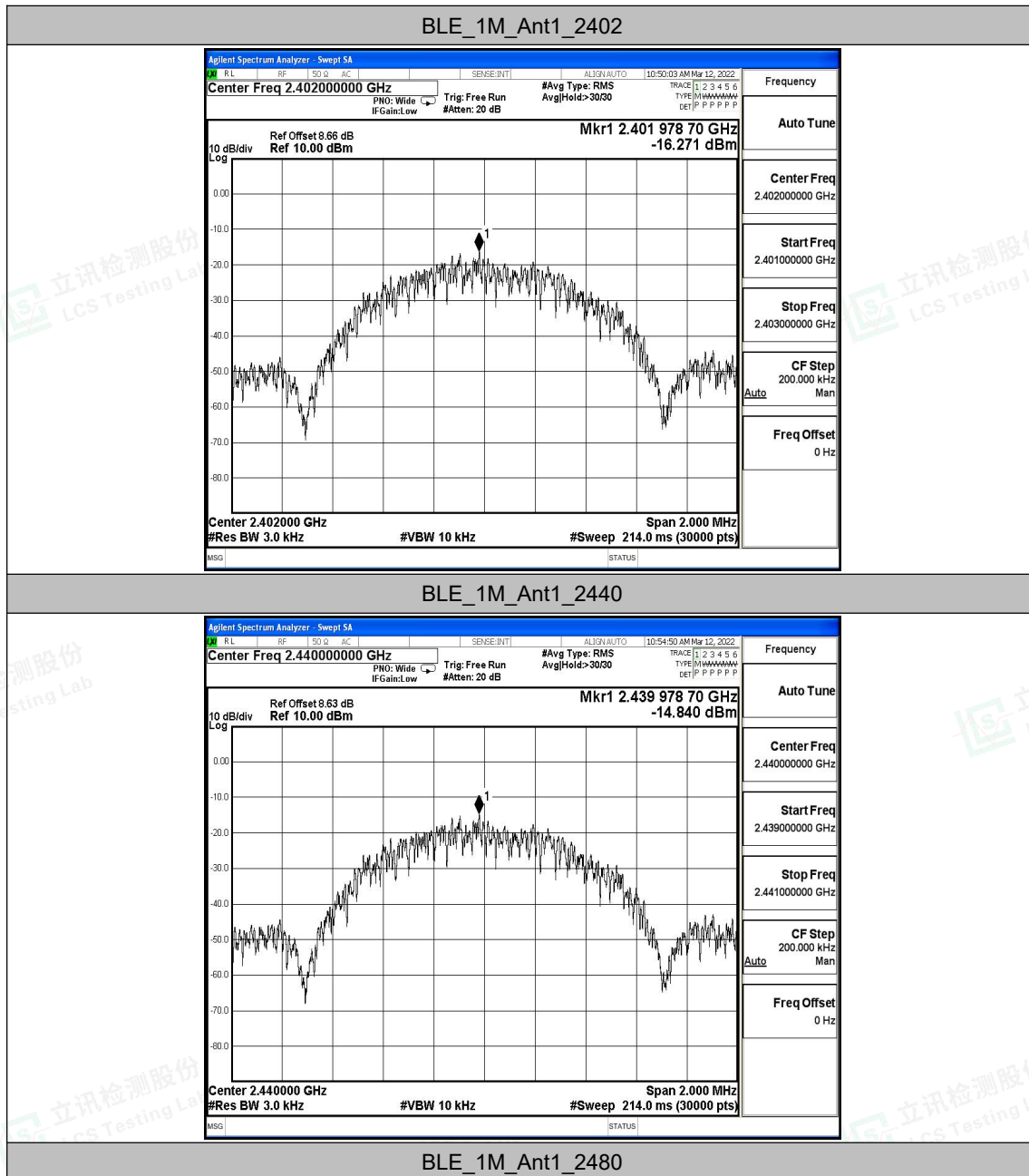
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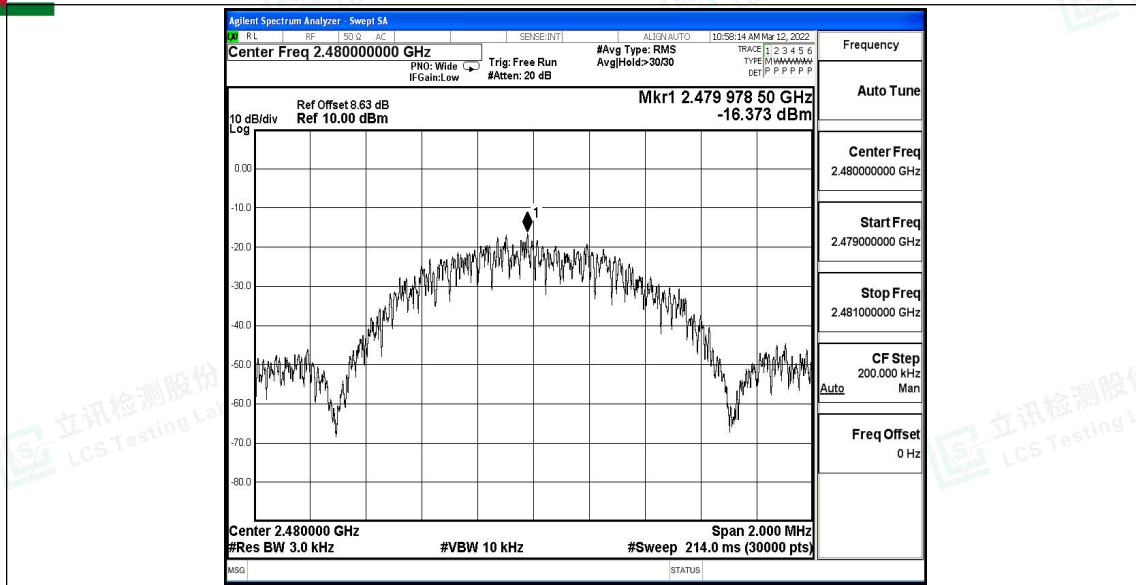


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B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.92	-57.46	≤-21.92	PASS
		High	2480	-2.13	-57.35	≤-22.13	PASS



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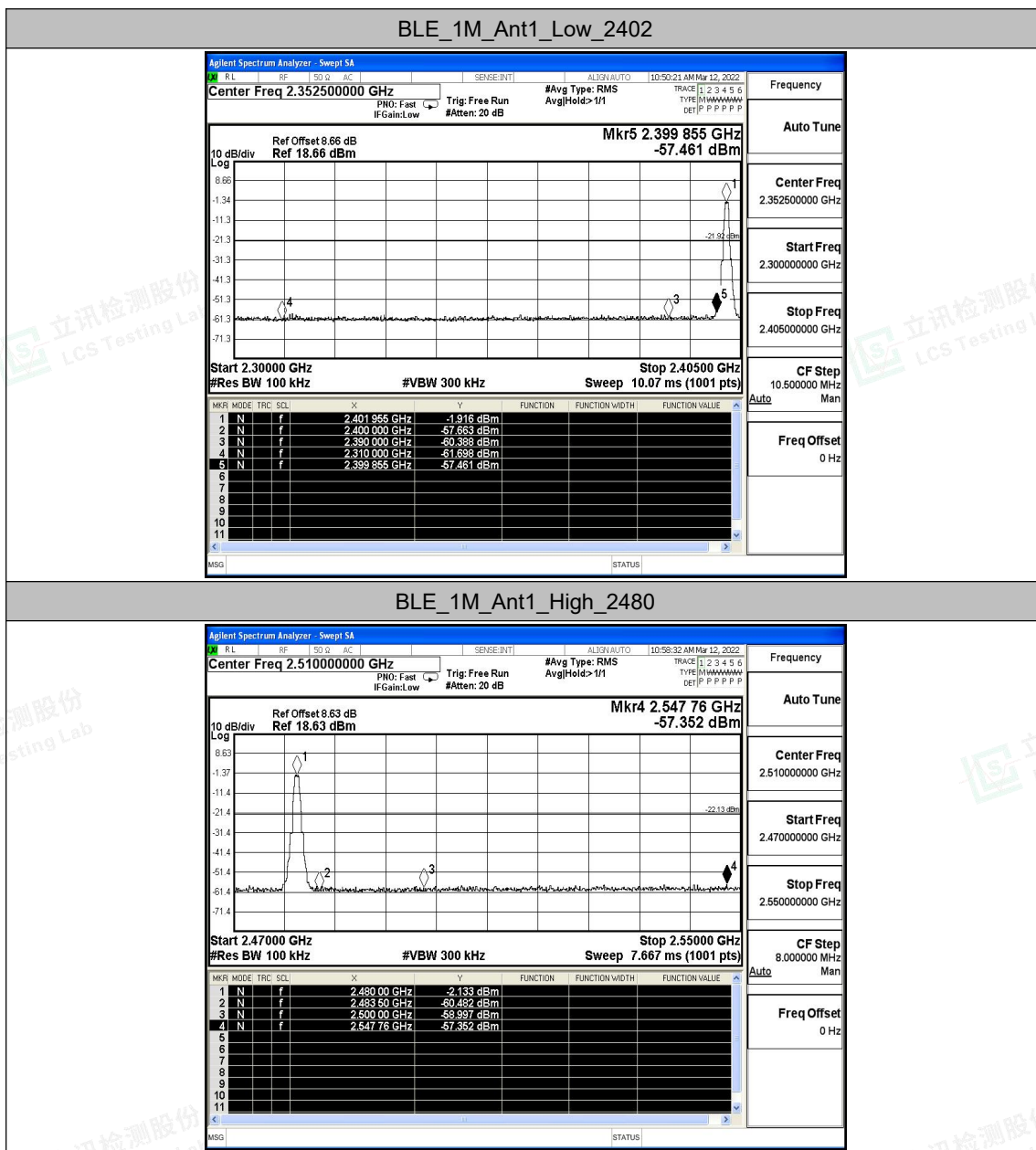
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Test Graphs



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B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.09	-2.09	---	PASS
			30~1000	-2.09	-58.96	≤-22.09	PASS
			1000~26500	-2.09	-46.04	≤-22.09	PASS
		2440	Reference	-0.58	-0.58	---	PASS
			30~1000	-0.58	-59.4	≤-20.58	PASS
			1000~26500	-0.58	-46.03	≤-20.58	PASS
		2480	Reference	-2.15	-2.15	---	PASS
			30~1000	-2.15	-58.26	≤-22.15	PASS
			1000~26500	-2.15	-45.82	≤-22.15	PASS



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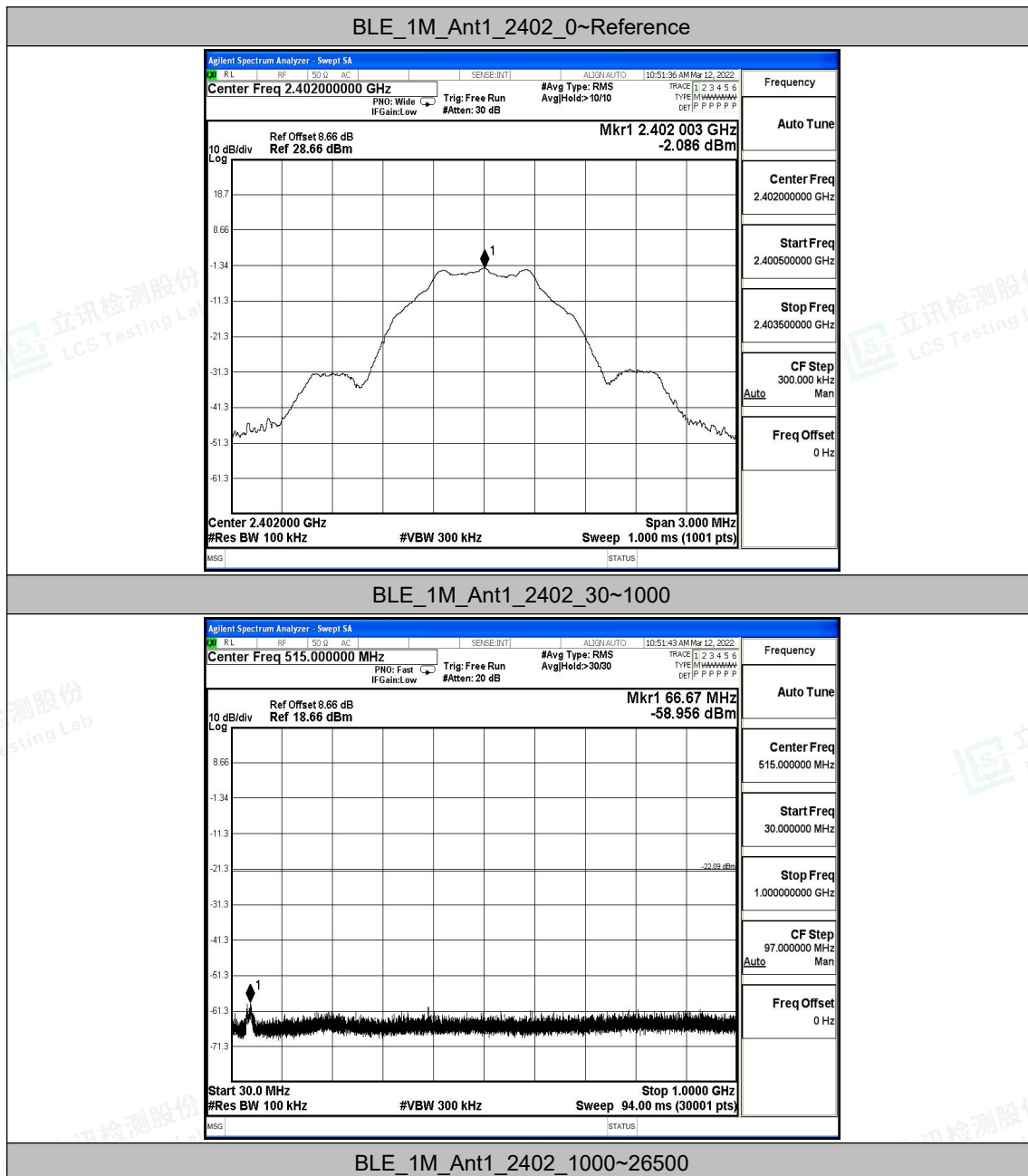
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Test Graphs

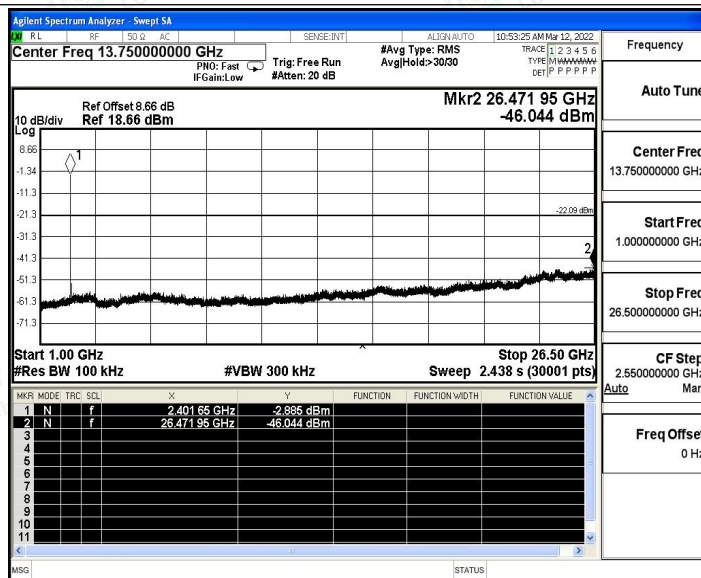


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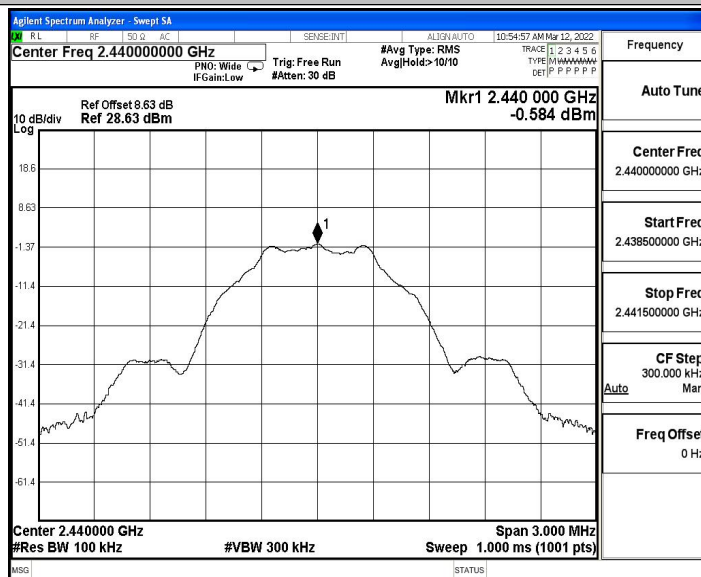
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

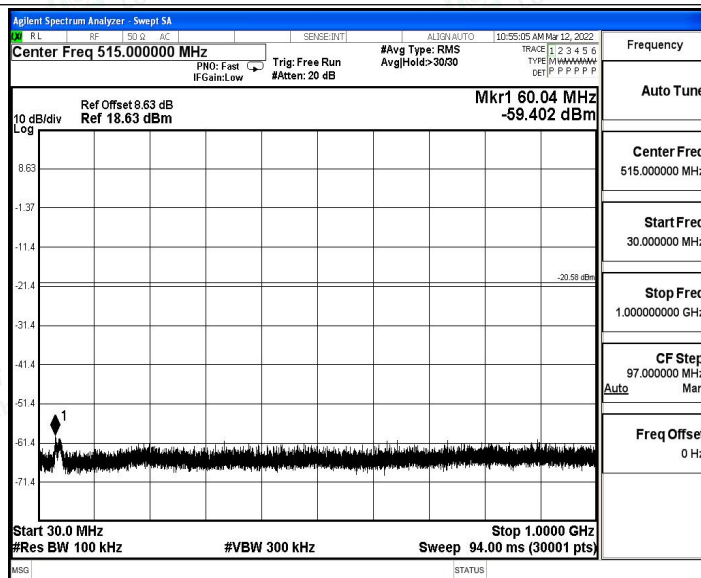


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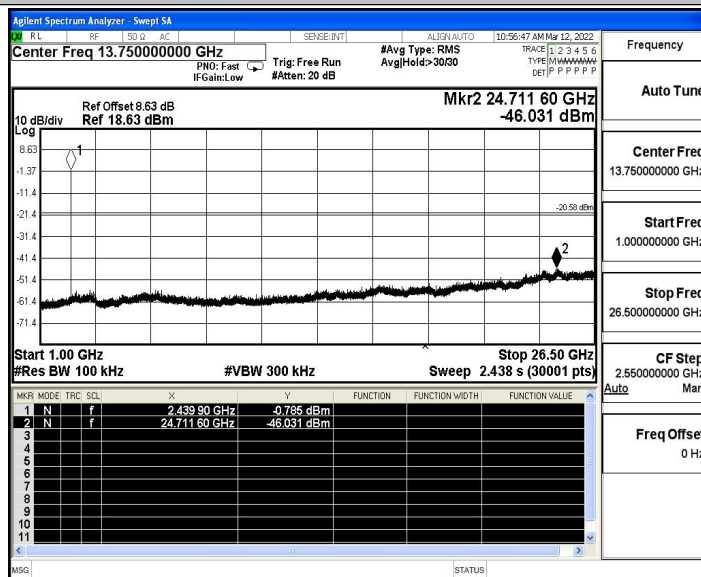
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

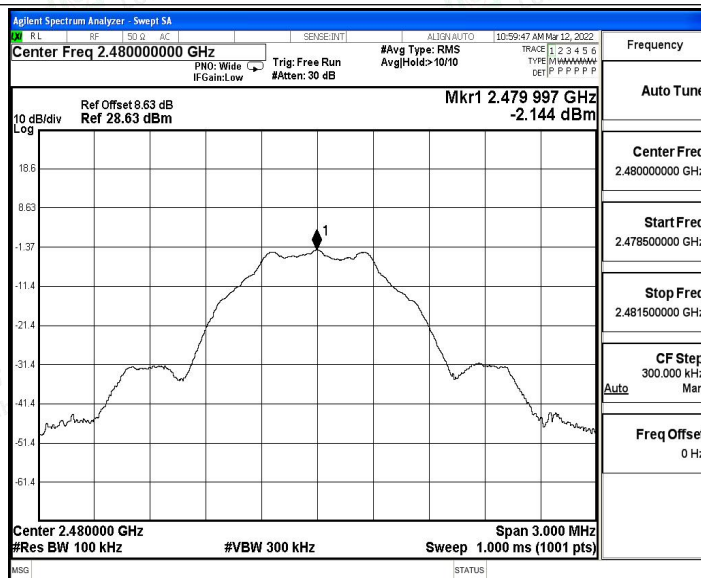


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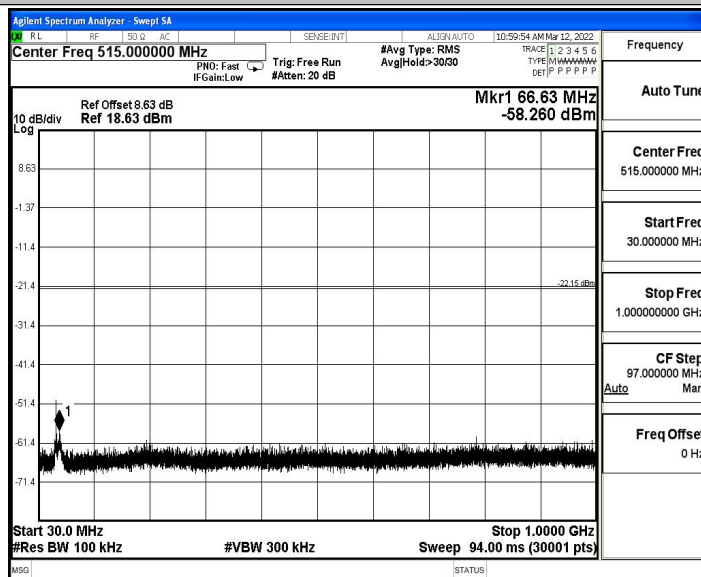
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

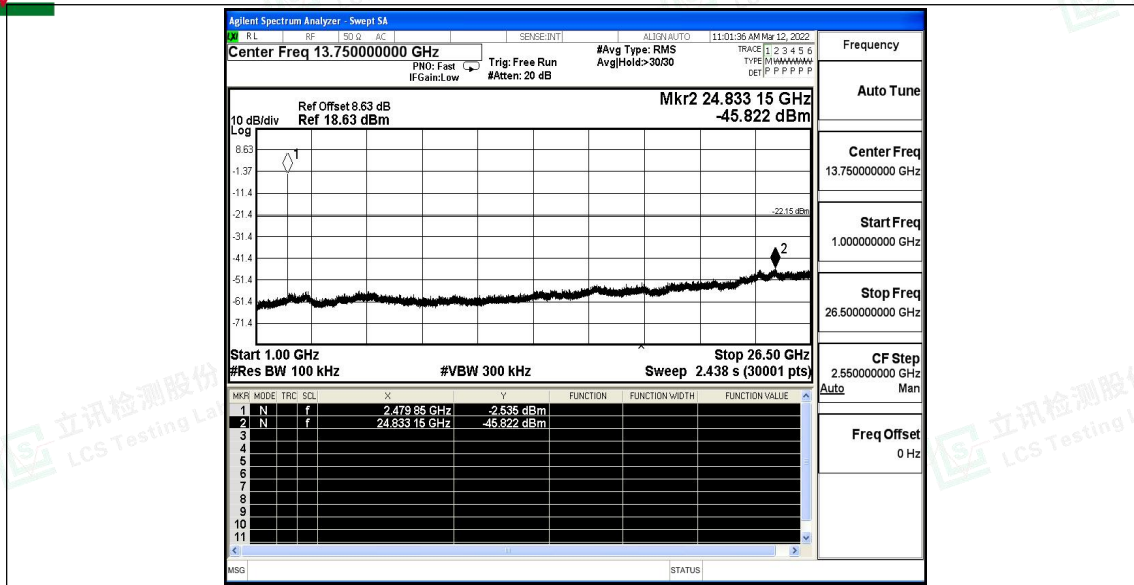


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B.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.62	0.6129	61.29	2.13	---	---
		2440	0.38	0.63	0.6032	60.32	2.20	---	---
		2480	0.38	0.63	0.6032	60.32	2.20	---	---



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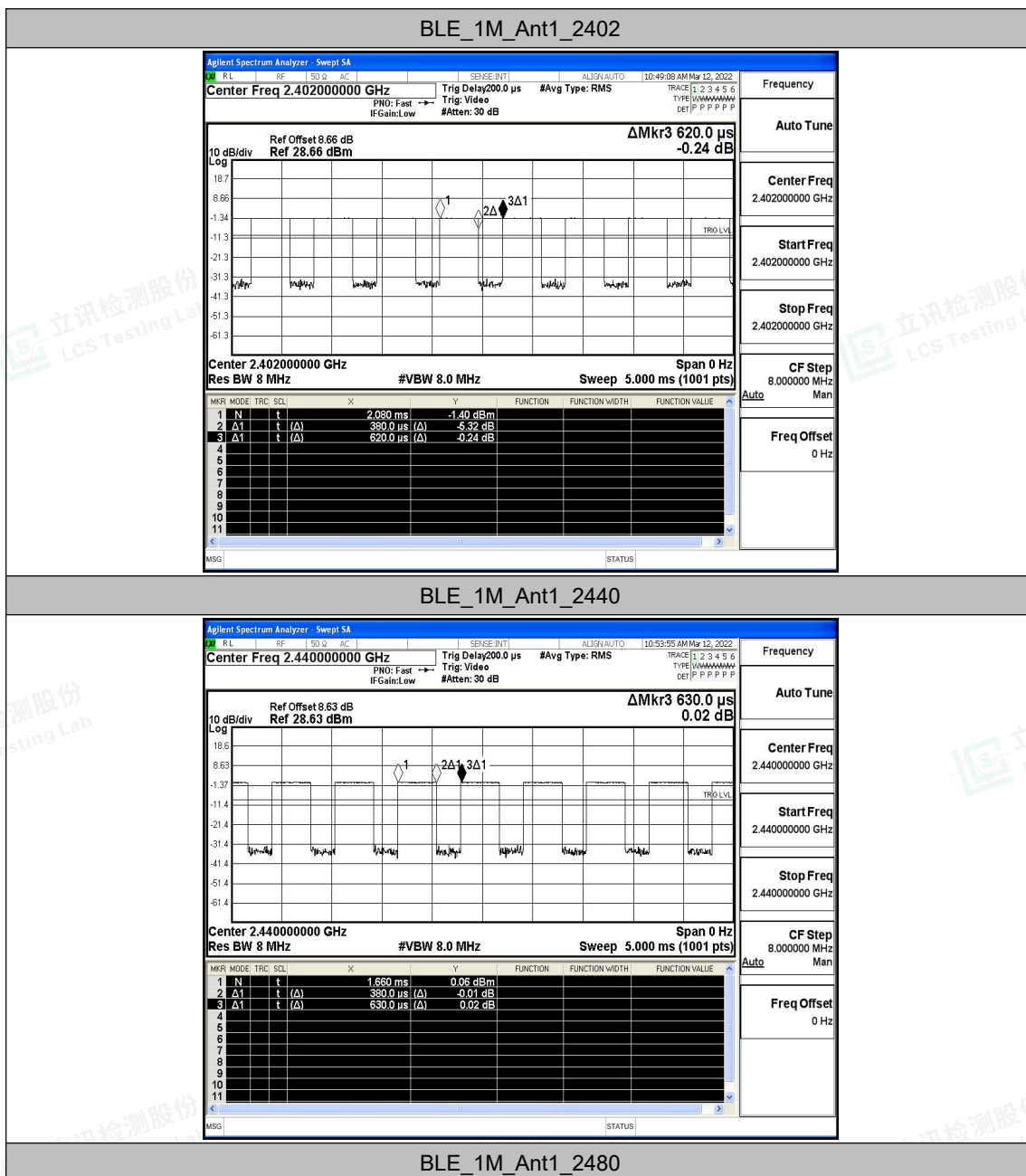
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Test Graphs

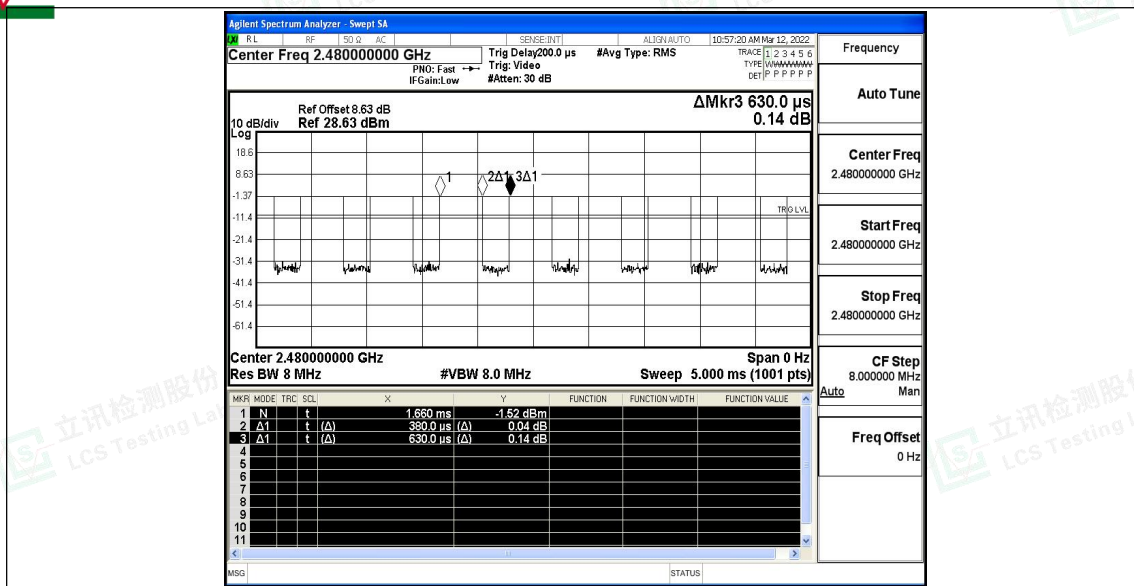


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B.7 Emissions in Restricted Bands

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	-57.44	≤-41.20	37.76	≤54	PASS
				AV	2383.055	-56.3	≤-41.20	38.90	≤54	PASS
				AV	2390.000	-56.79	≤-41.20	38.41	≤54	PASS
				Peak	2310.000	-48.88	≤-21.20	46.32	≤74	PASS
				Peak	2370.980	-46.58	≤-21.20	48.62	≤74	PASS
				Peak	2390.000	-48.1	≤-21.20	47.10	≤74	PASS
		High	2480	AV	2483.500	-54.16	≤-41.20	41.04	≤54	PASS
				AV	2483.520	-54.16	≤-41.20	41.04	≤54	PASS
				AV	2500.000	-56.15	≤-41.20	39.05	≤54	PASS
				Peak	2483.500	-47.07	≤-21.20	48.13	≤74	PASS
				Peak	2497.680	-46.24	≤-21.20	48.96	≤74	PASS
				Peak	2500.000	-47.85	≤-21.20	47.35	≤74	PASS

Note:

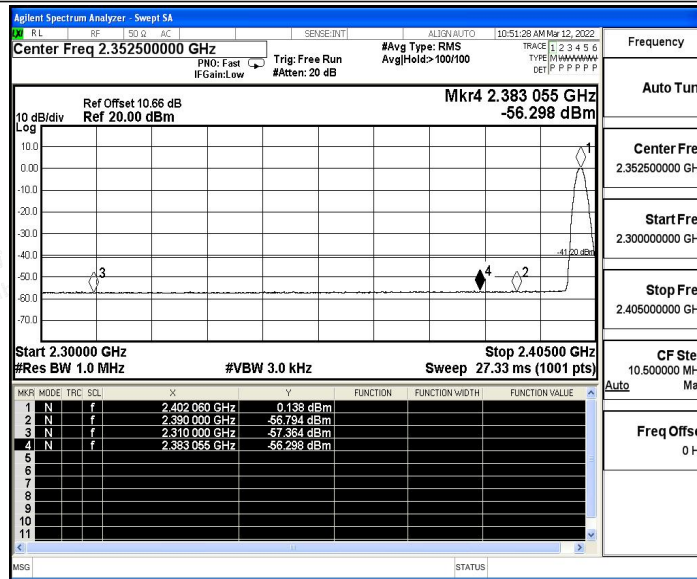
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



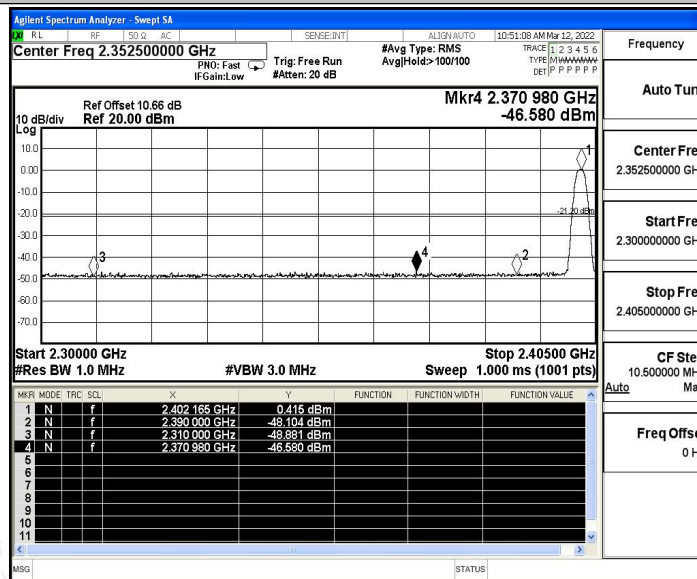


Test Graphs

BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV

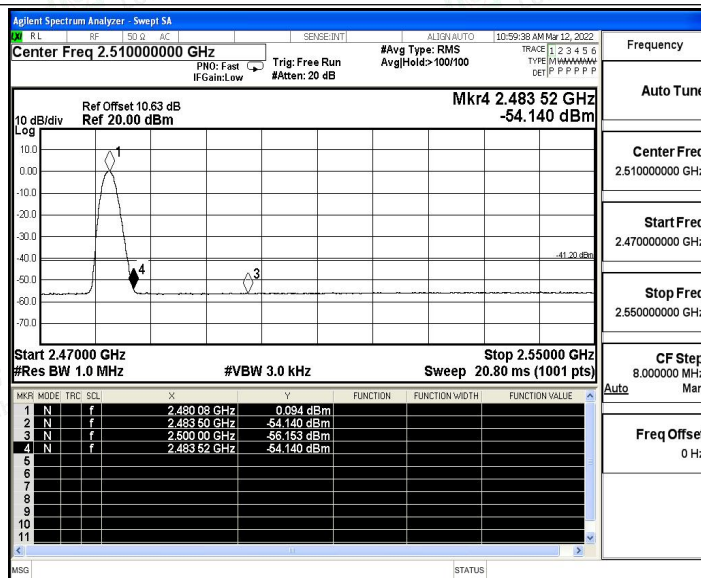


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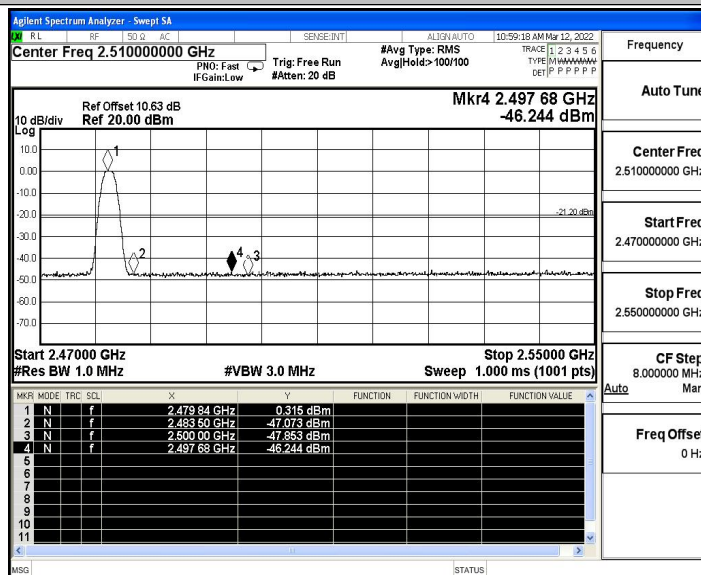
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BLE_1M_Ant1_High_2480_Peak



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