



Appendix B

RF Test Data for BT (Conducted Measurement)

Product Name: Portable Power Station

Test Model: P2001 PLUS

Environmental Conditions

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



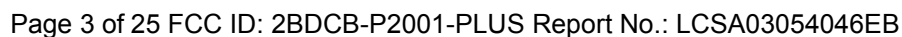


B.1 DTS Bandwidth

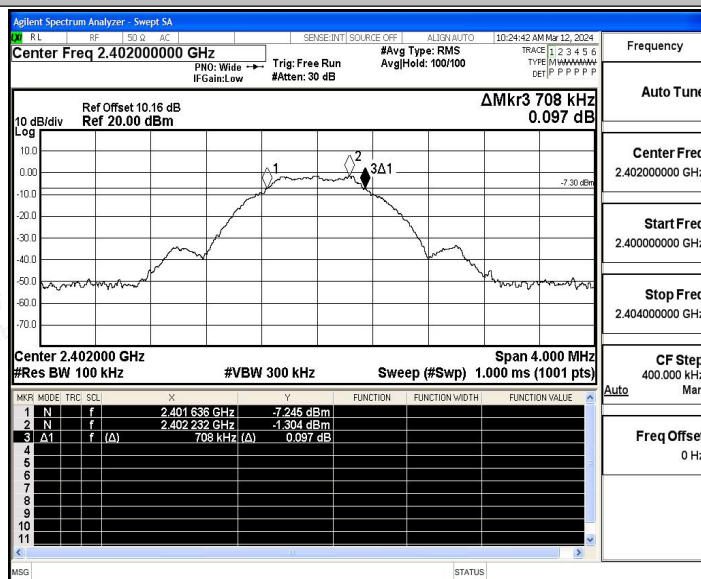
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.708	2401.636	2402.344	0.5	PASS
		2440	0.704	2439.636	2440.340	0.5	PASS
		2480	0.700	2479.640	2480.340	0.5	PASS

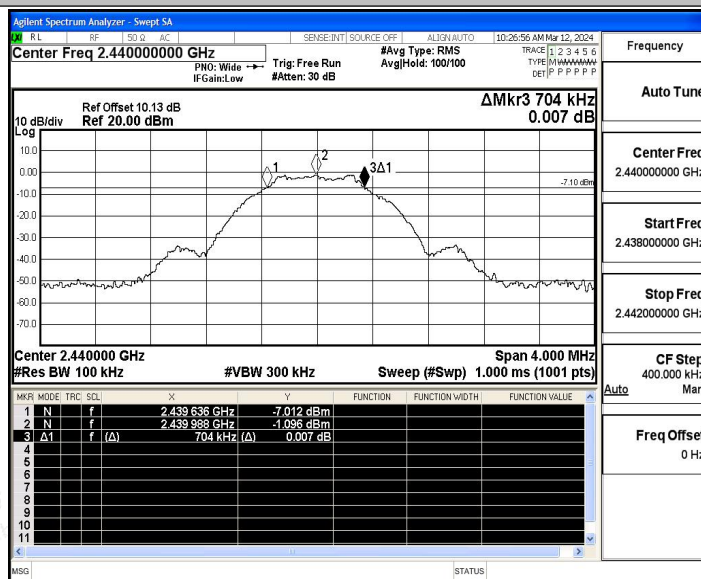




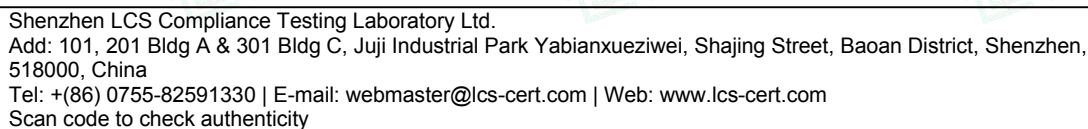
BLE	1M	Ant1	2402
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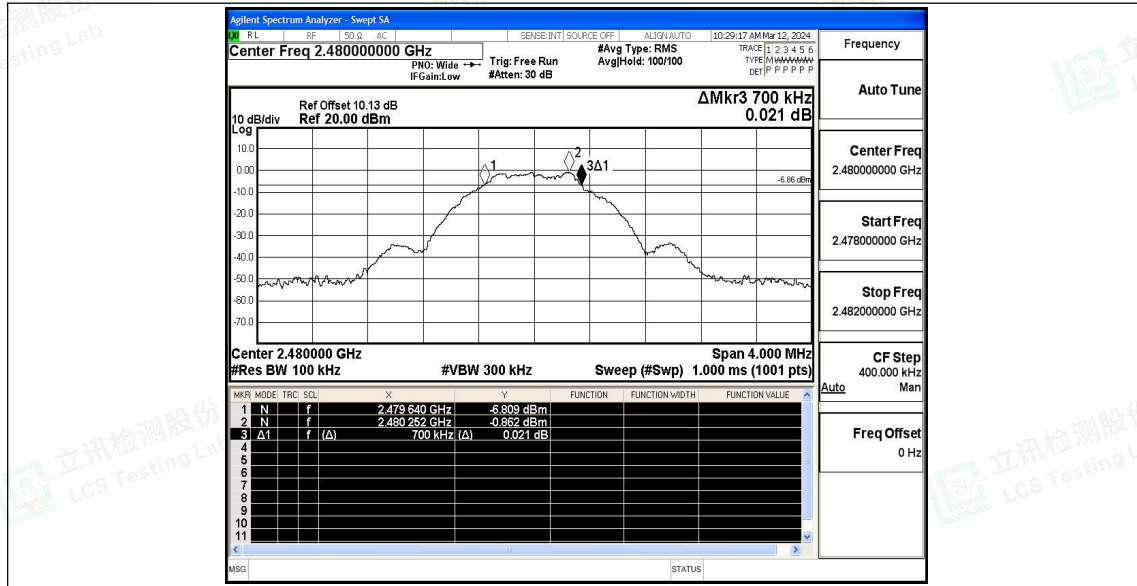


BLE 1M Ant1 2440



BLE 1M Ant1 2480







B.2 Maximum conducted output power

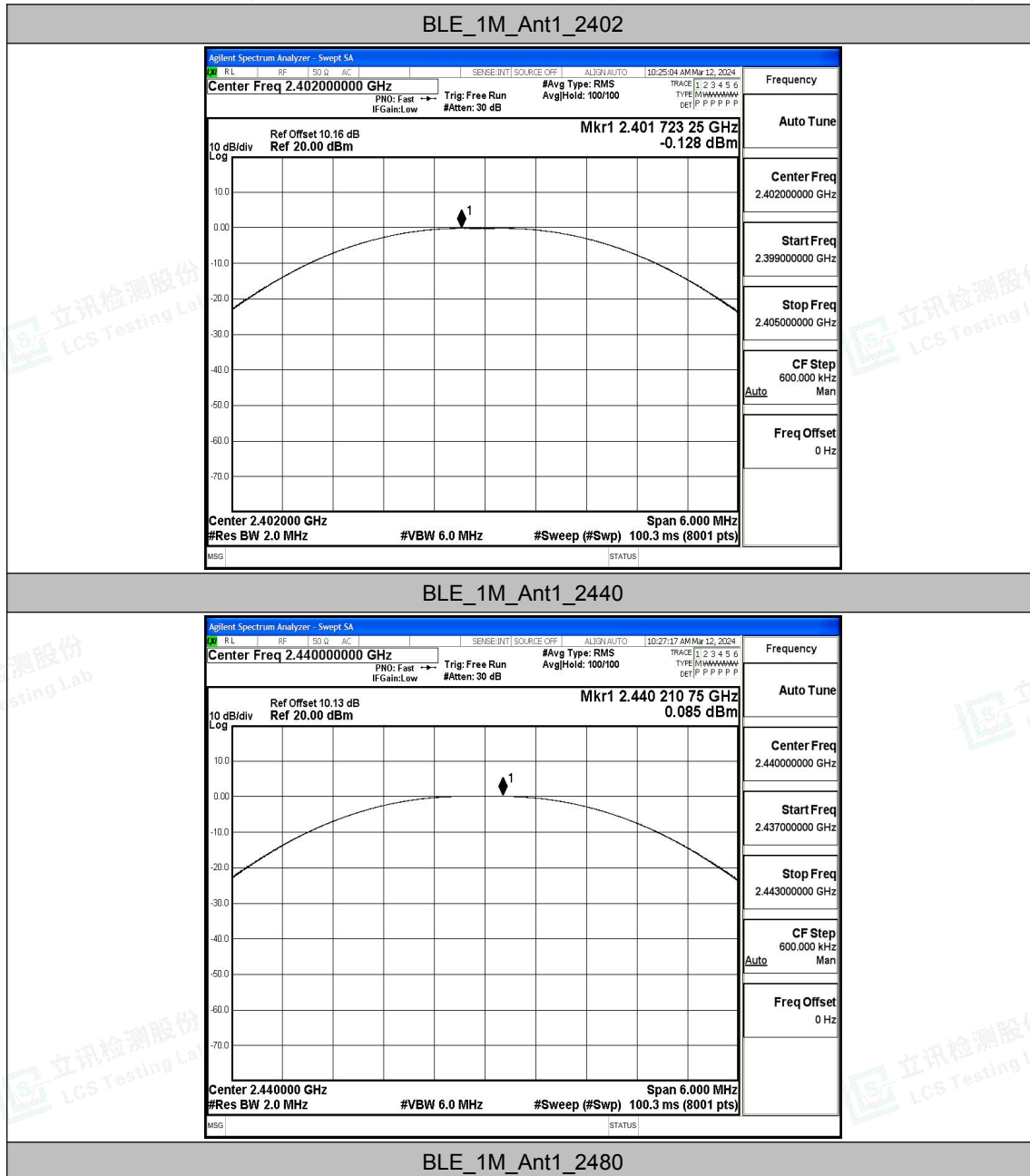
Test Result

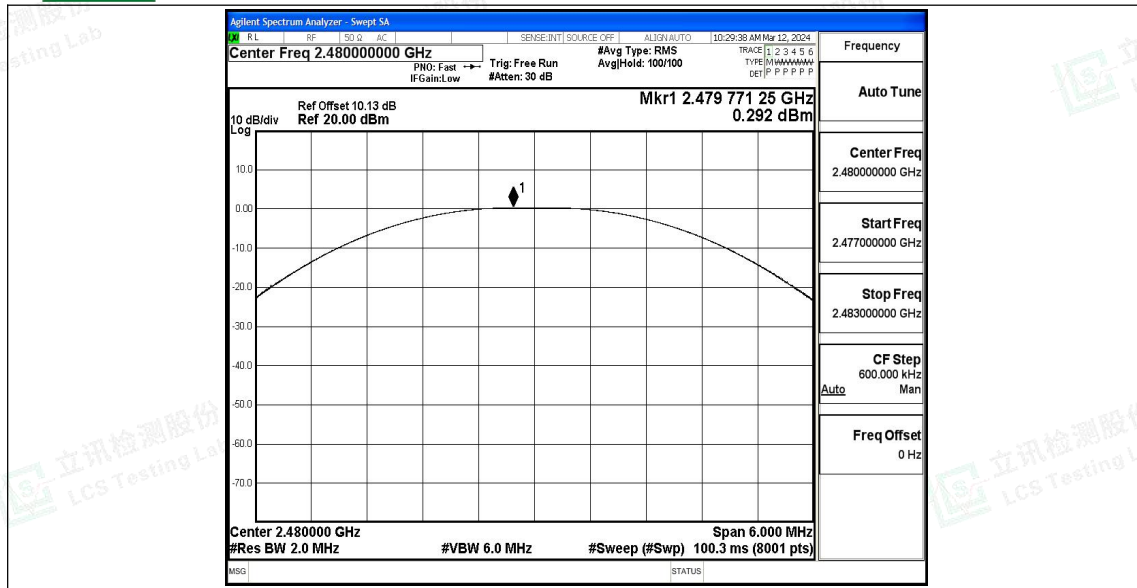
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.13	≤30	PASS
		2440	0.09	≤30	PASS
		2480	0.29	≤30	PASS





Test Graphs







B.3 Maximum power spectral density

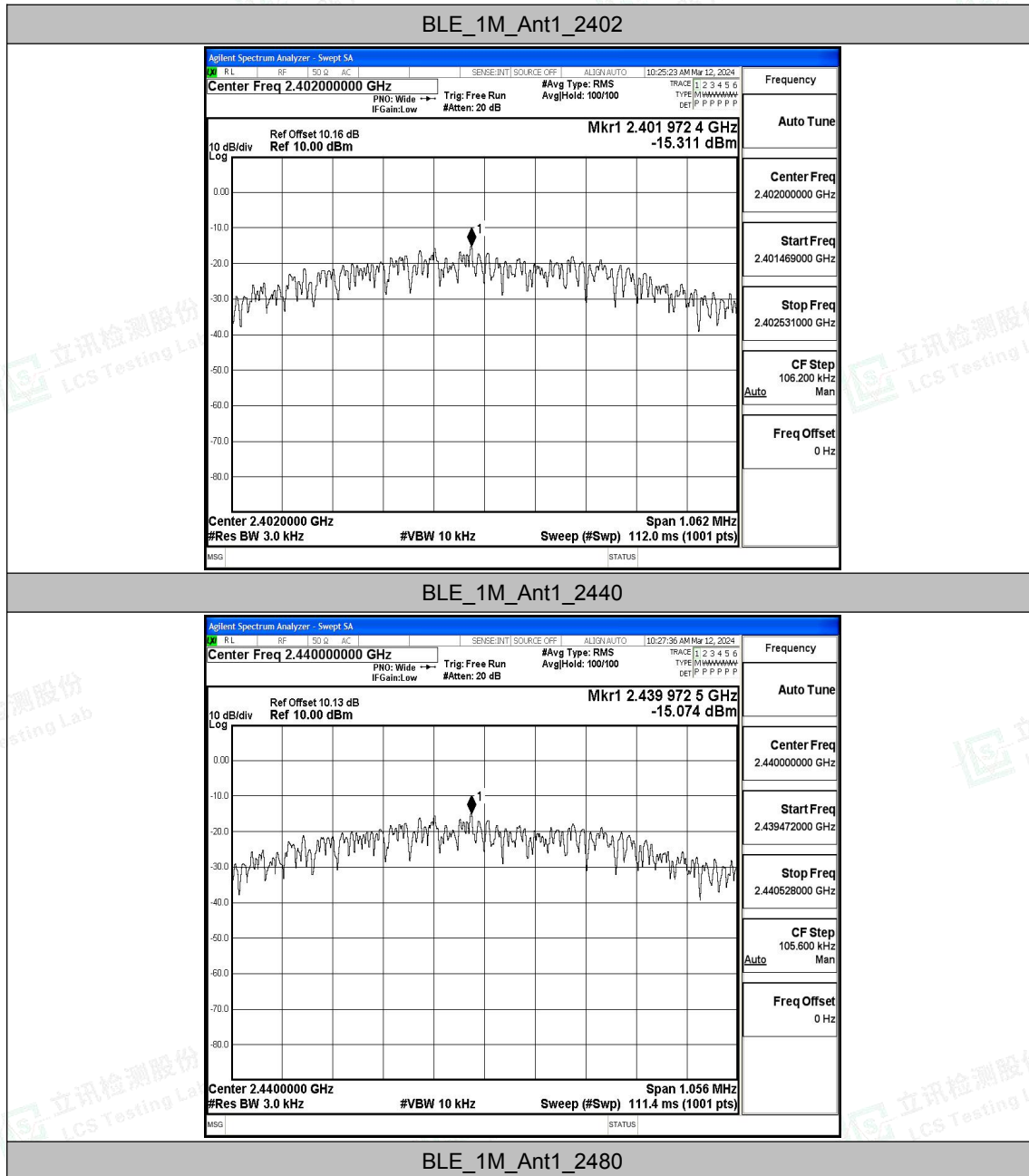
Test Result

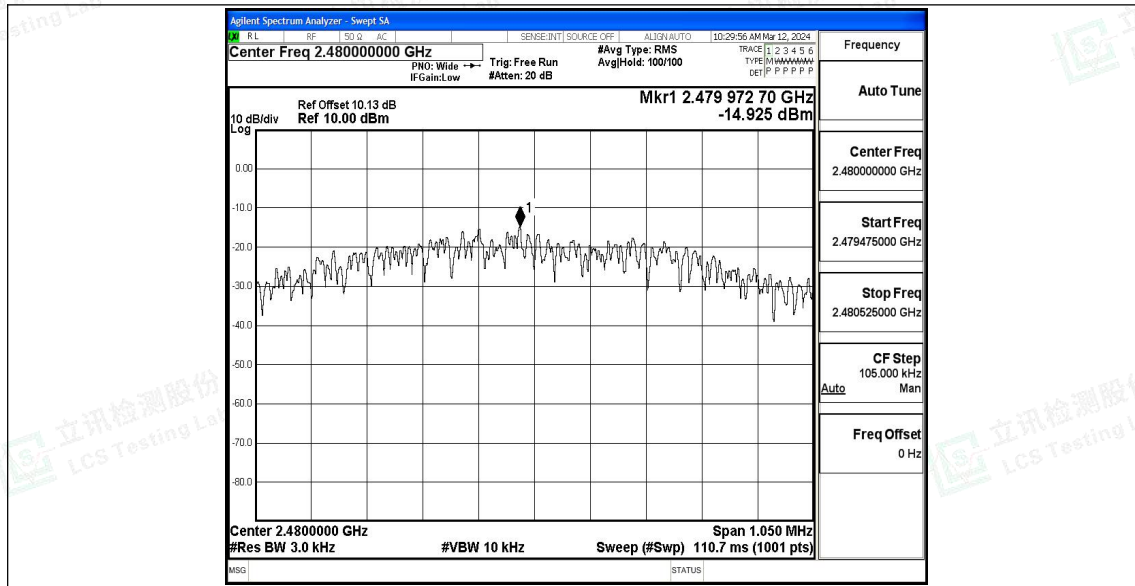
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.31	≤8.00	PASS
		2440	-15.07	≤8.00	PASS
		2480	-14.93	≤8.00	PASS





Test Graphs







B.4 Band edge measurements

Test Result

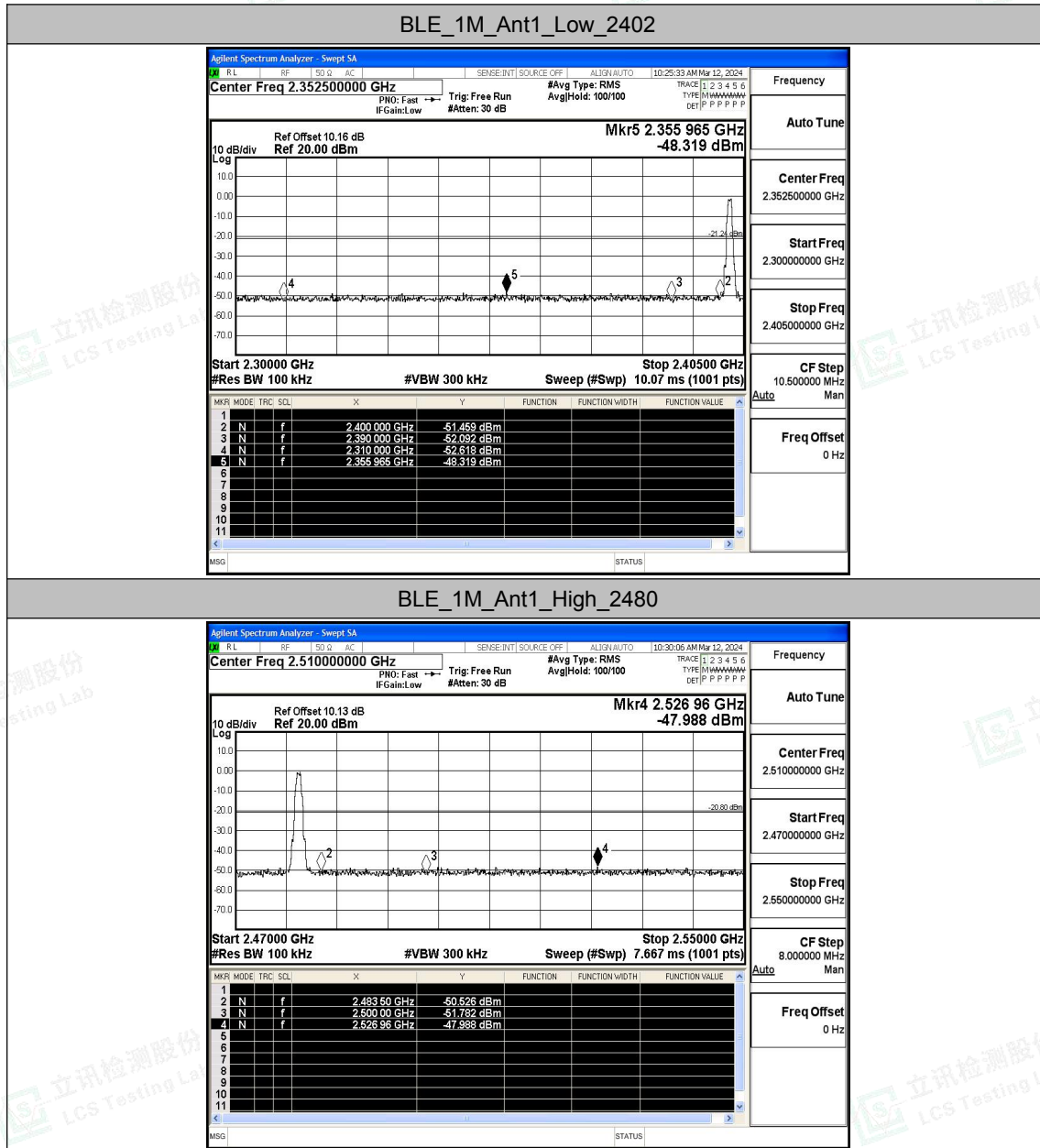
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.24	-48.32	≤-21.24	PASS
		High	2480	-0.80	-47.99	≤-20.8	PASS





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Test Graphs





B.5 Conducted Spurious Emission

Test Result

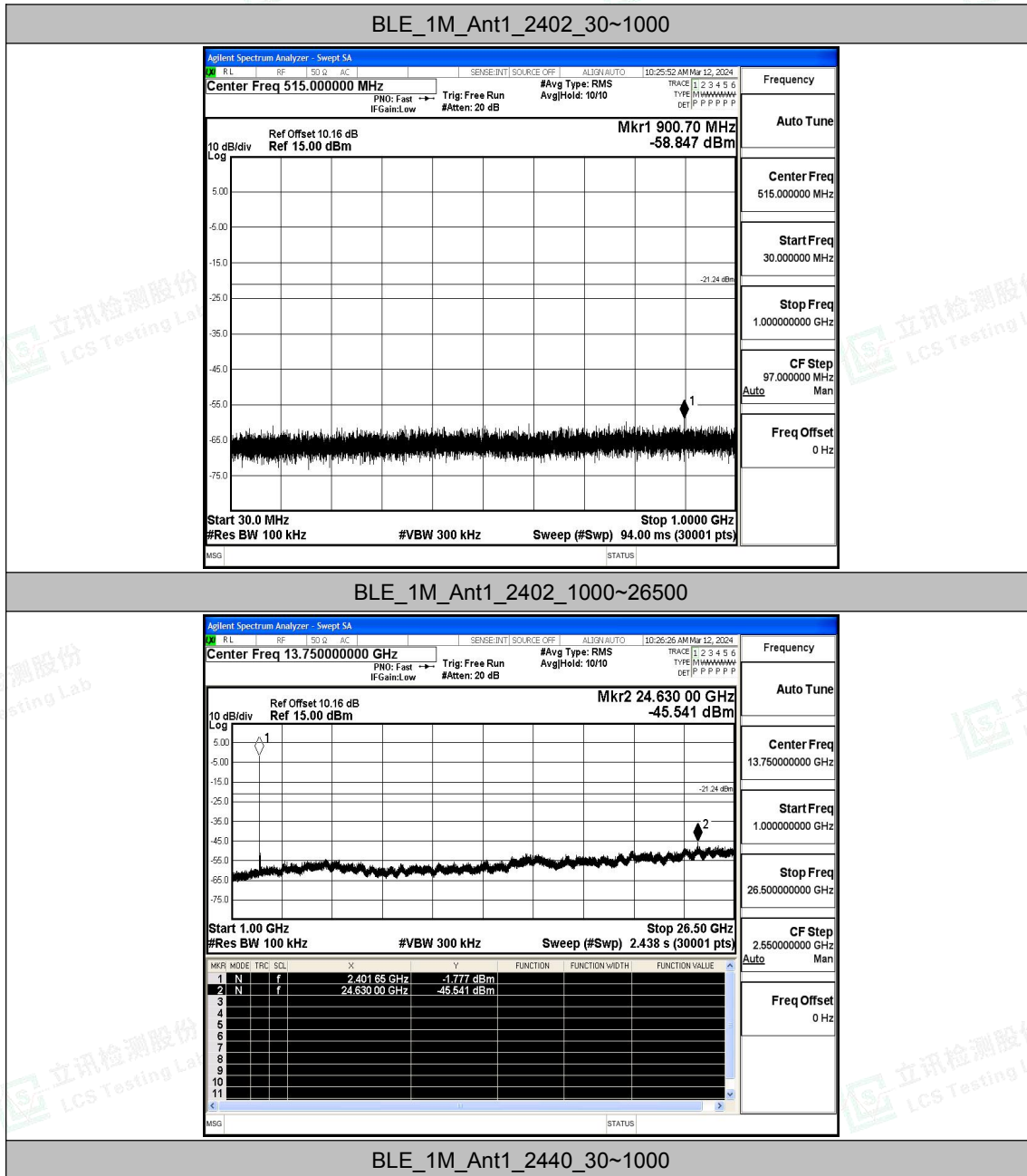
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	-1.24	-58.85	≤-21.24	PASS
			1000~26500	-1.24	-45.54	≤-21.24	PASS
		2440	30~1000	-1.12	-59.85	≤-21.12	PASS
			1000~26500	-1.12	-46.59	≤-21.12	PASS
		2480	30~1000	-0.80	-59.7	≤-20.8	PASS
			1000~26500	-0.80	-46.97	≤-20.8	PASS





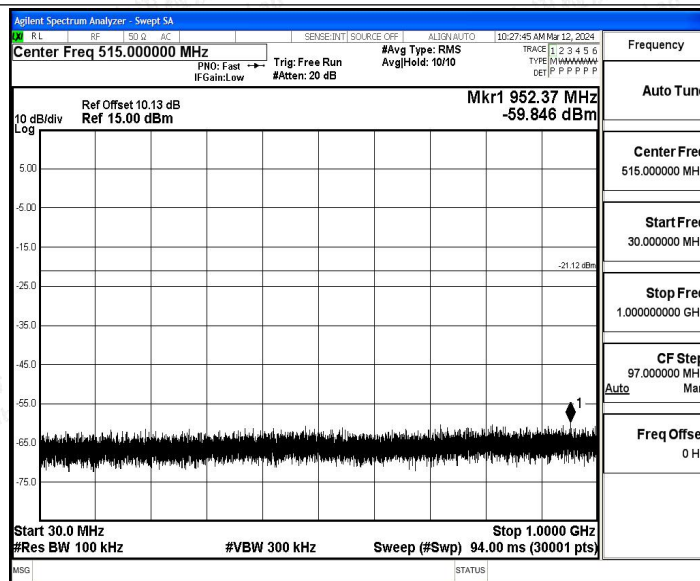
LCS-2025-4046EB

Test Graphs

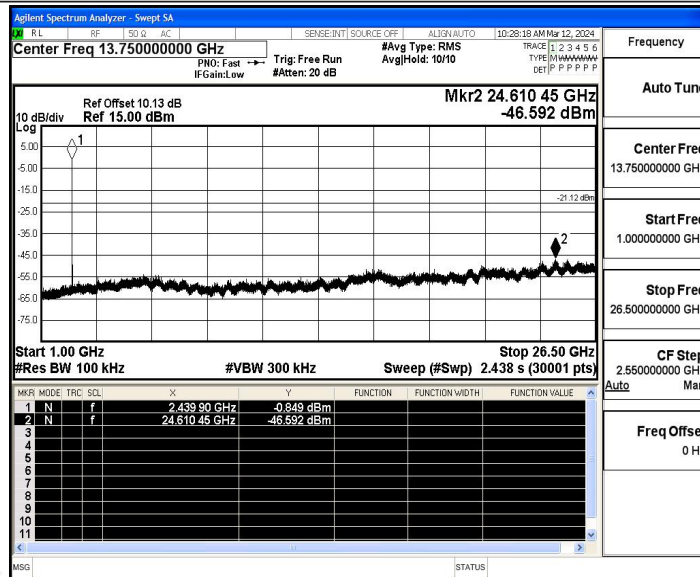




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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_30~1000



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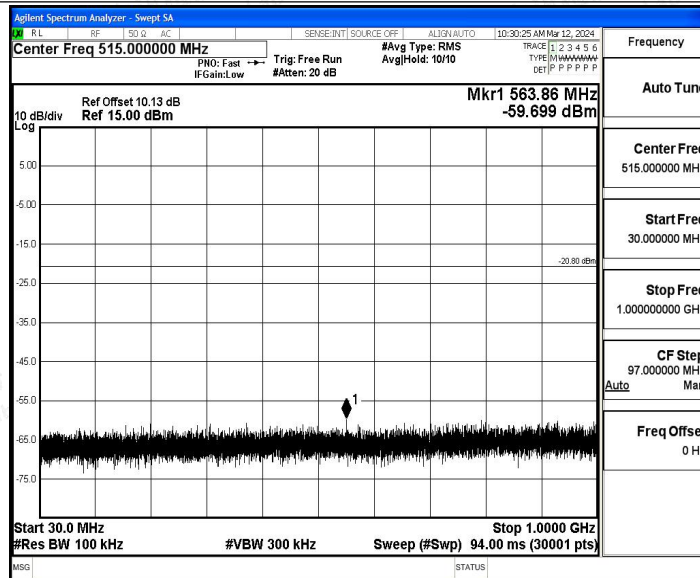
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

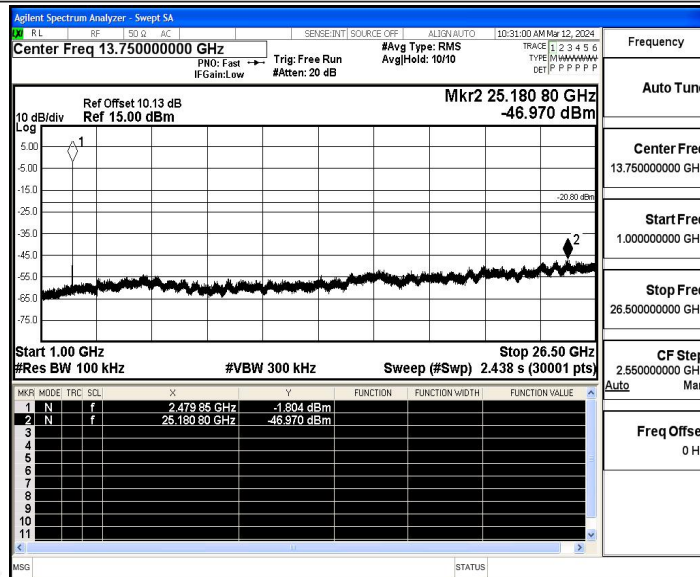
Scan code to check authenticity



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BLE_1M_Ant1_2480_1000~26500



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Scan code to check authenticity



Reference level measurement

Test Result

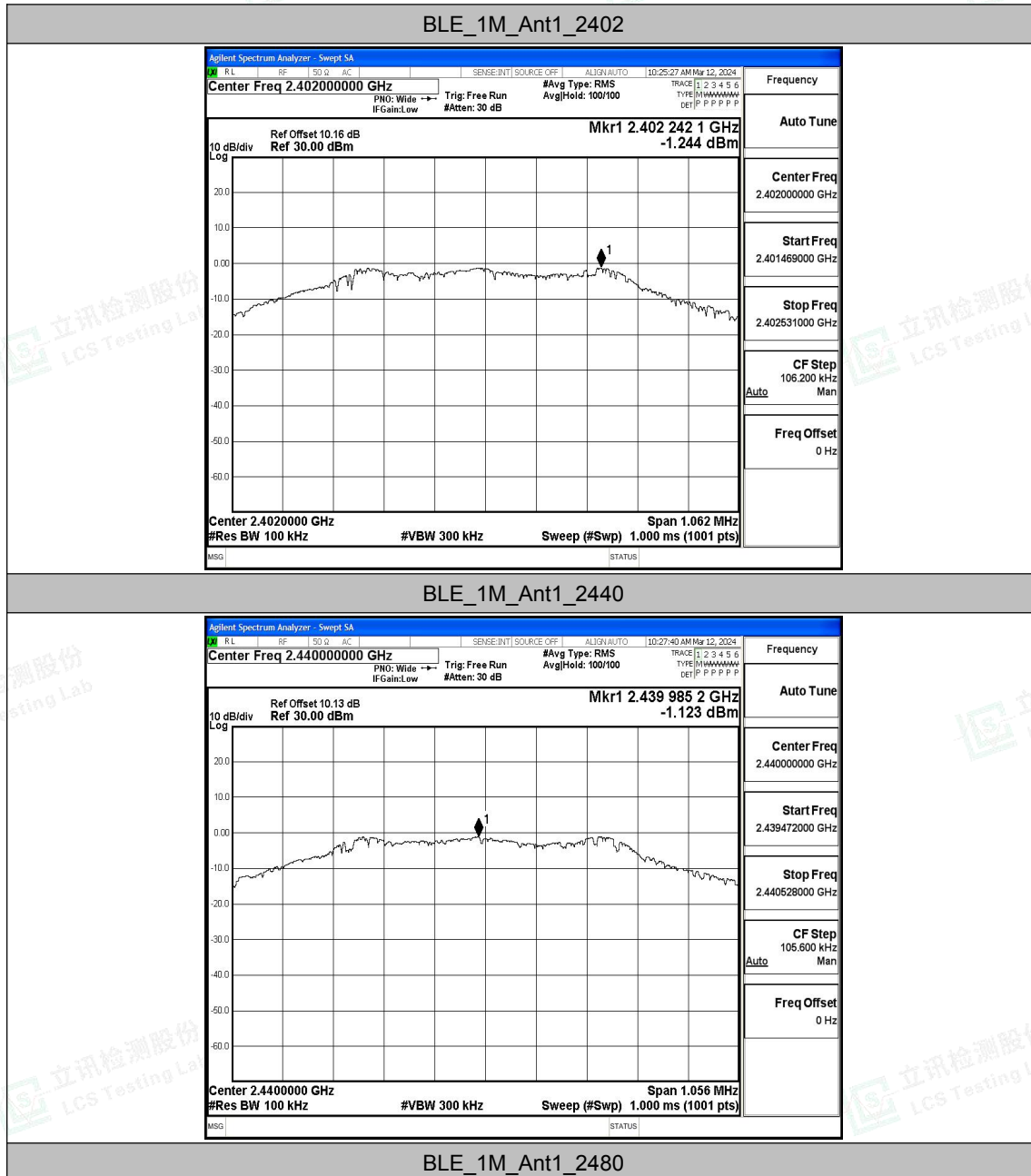
TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.24	-1.24
		2440	2439.99	-1.12
		2480	2480.24	-0.80

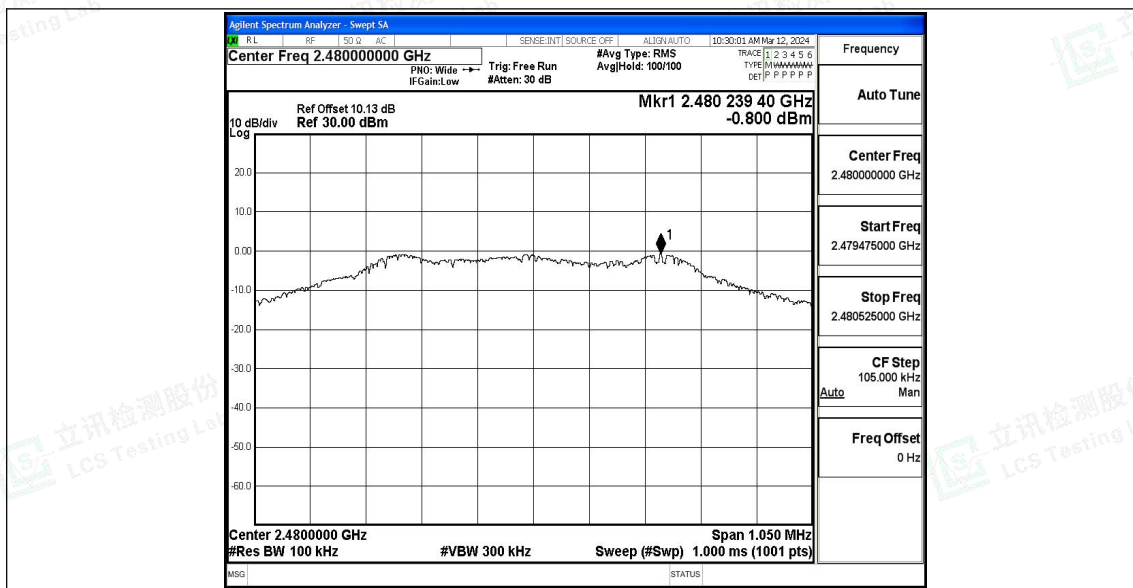




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Test Graphs







B.6 Duty Cycle

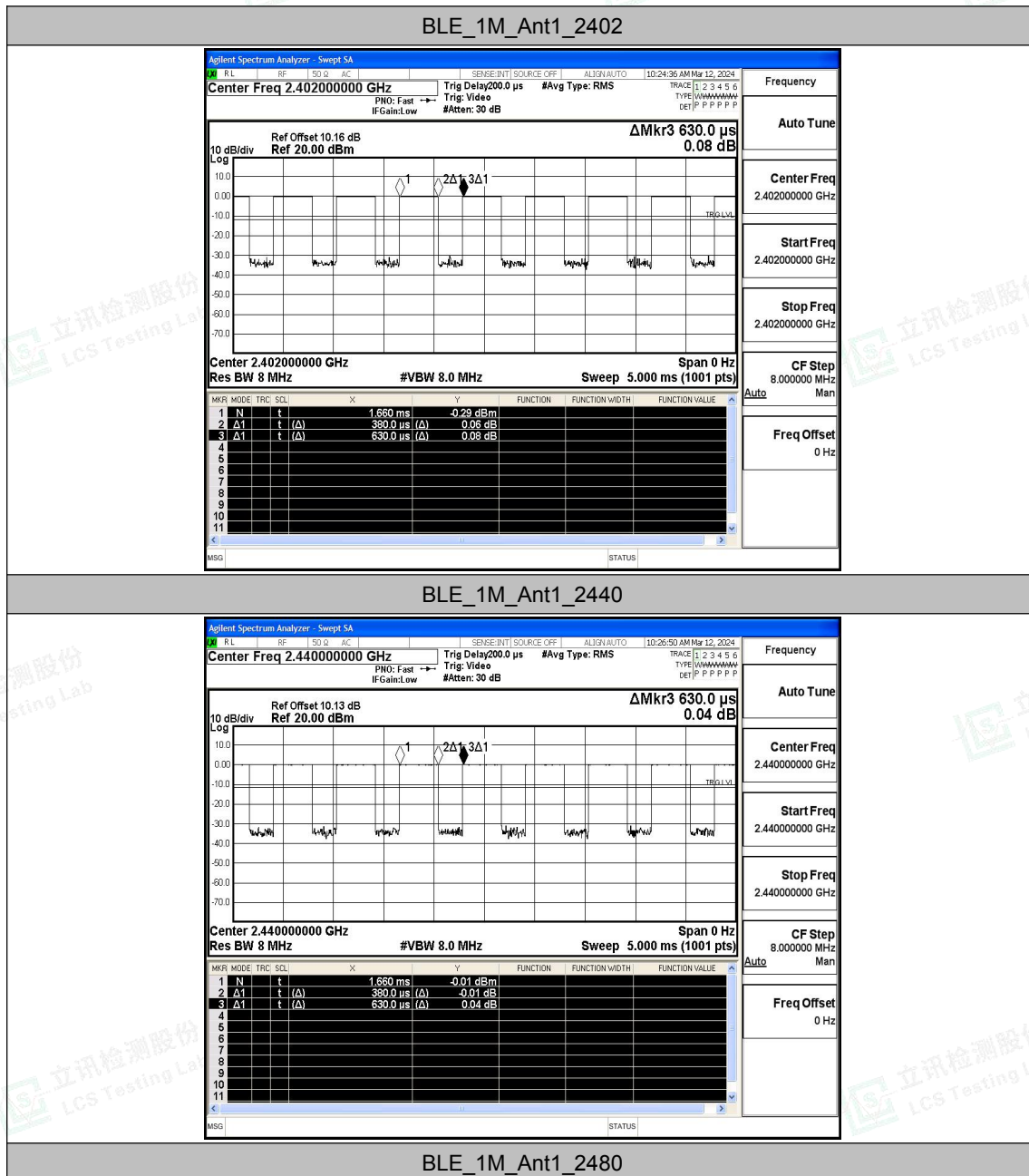
Test Result

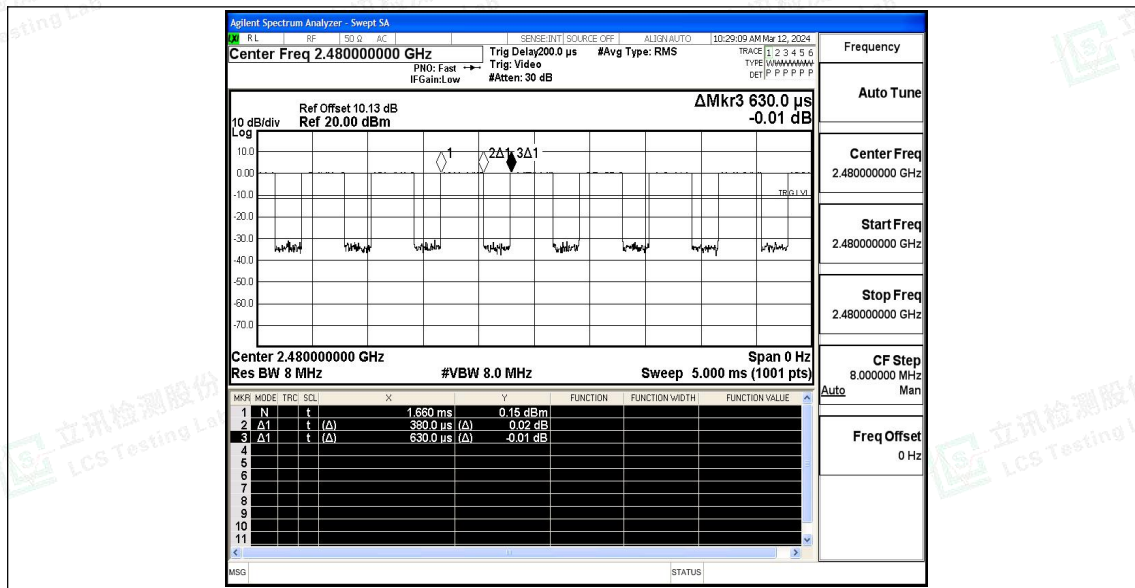
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[dB]
BLE_1M	Ant1	2402	0.38	0.63	60.32	2.20	2.63
		2440	0.38	0.63	60.32	2.20	2.63
		2480	0.38	0.63	60.32	2.20	2.63





Test Graphs







B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-45.94	≤-41.20	49.26	≤54	PASS
				AV	2386.205	-44.64	≤-41.20	50.56	≤54	PASS
				AV	2390.000	-45.44	≤-41.20	49.76	≤54	PASS
				Peak	2310.000	-39.36	≤-21.20	55.84	≤74	PASS
				Peak	2374.865	-36.18	≤-21.20	59.02	≤74	PASS
				Peak	2390.000	-39.91	≤-21.20	55.29	≤74	PASS
		High	2480	AV	2483.500	-45.88	≤-41.20	49.32	≤54	PASS
				AV	2495.840	-44.64	≤-41.20	50.56	≤54	PASS
				AV	2500.000	-45.45	≤-41.20	49.75	≤54	PASS
				Peak	2483.500	-40.31	≤-21.20	54.89	≤74	PASS
				Peak	2485.280	-37.15	≤-21.20	58.05	≤74	PASS
				Peak	2500.000	-40.27	≤-21.20	54.93	≤74	PASS

Note:

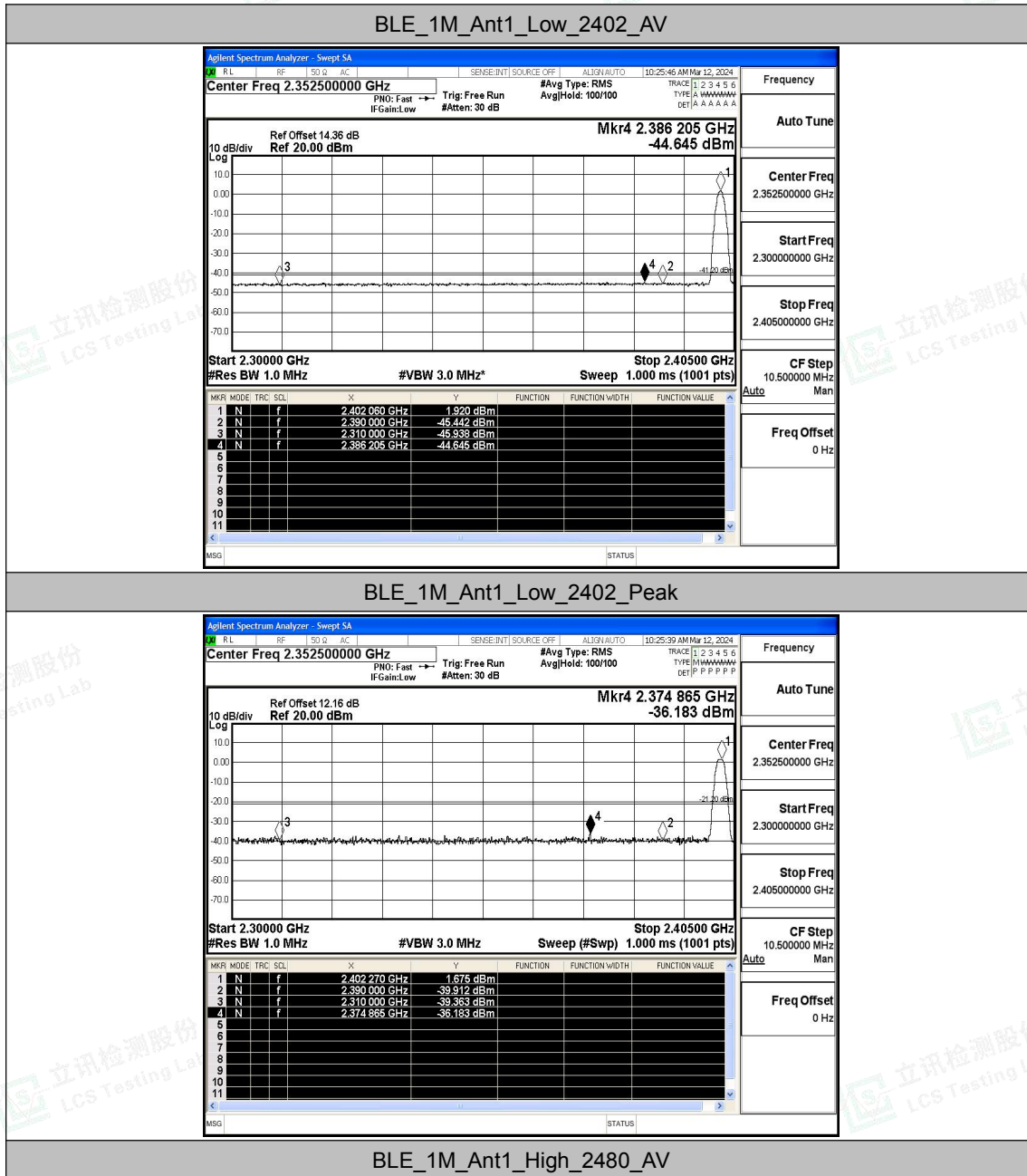
1. The Antenna Gain is compensated in the graph. The Correction Factor is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.





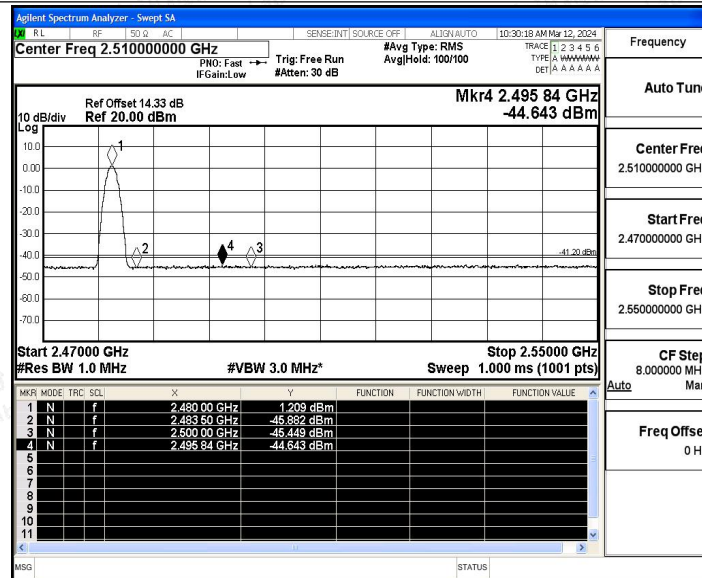
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Test Graphs

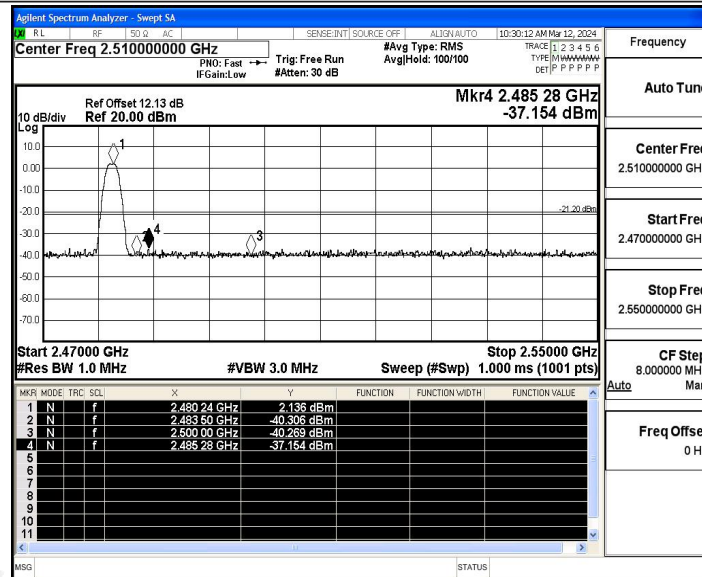




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BLE_1M_Ant1_High_2480_Peak



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