



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Tablet

Test Model: 10LC1

Environmental Conditions

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





B.1 DTS Bandwidth

Test Result

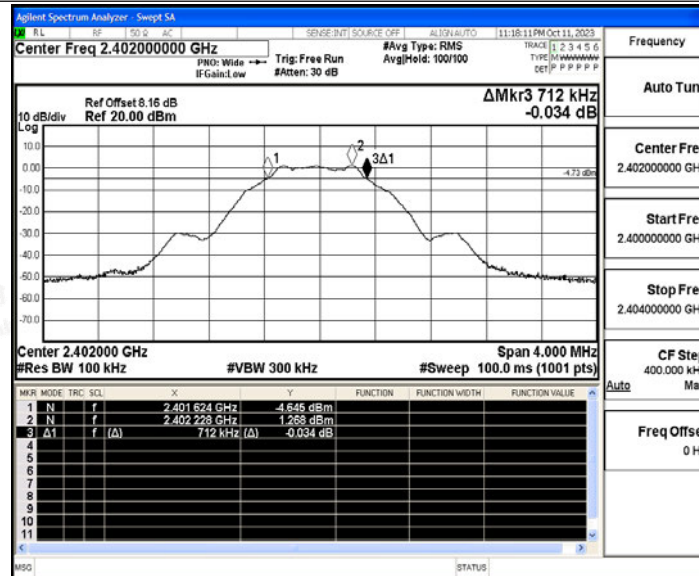
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.712	2401.624	2402.336	0.5	PASS
		2440	0.712	2439.624	2440.336	0.5	PASS
		2480	0.712	2479.624	2480.336	0.5	PASS



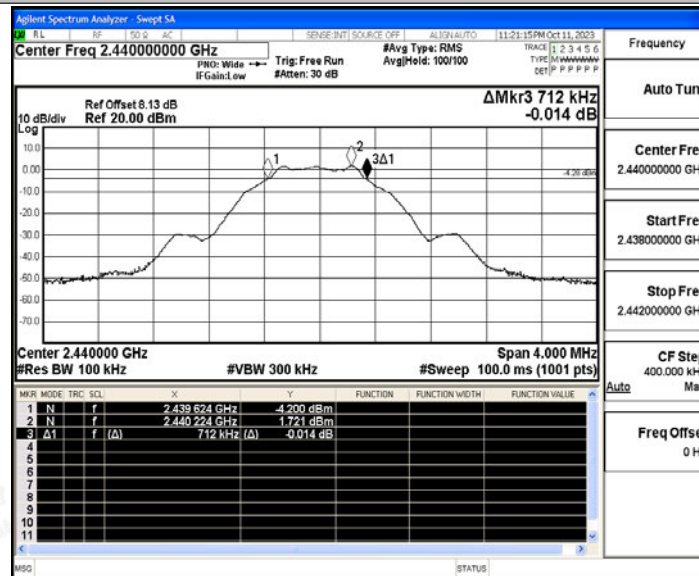


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

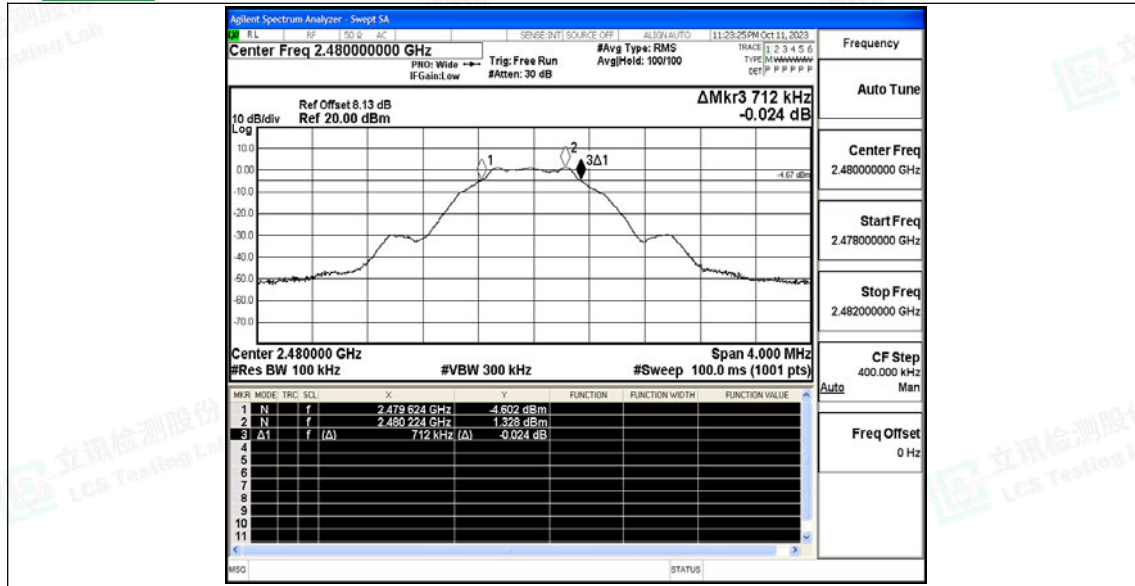


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B.2 Maximum conducted output power

Test Result

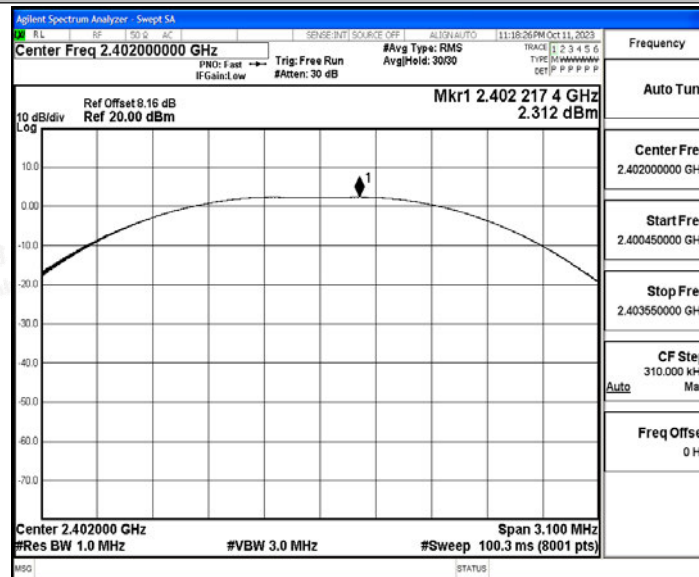
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.31	≤30	PASS
		2440	2.75	≤30	PASS
		2480	2.36	≤30	PASS



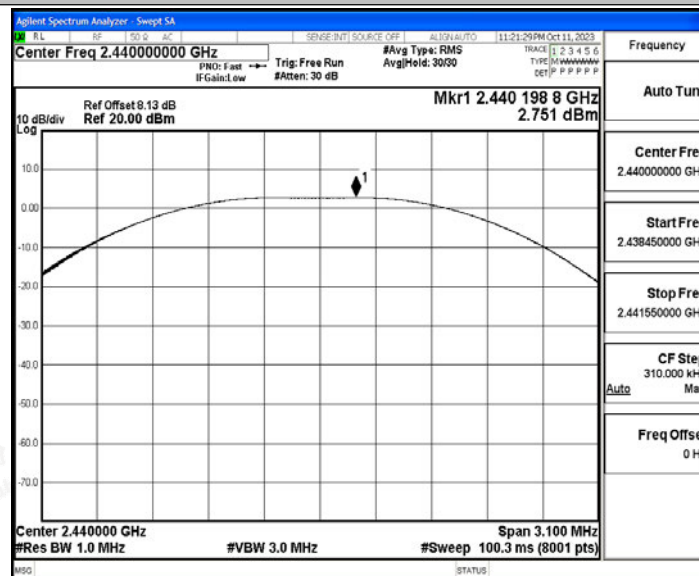


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

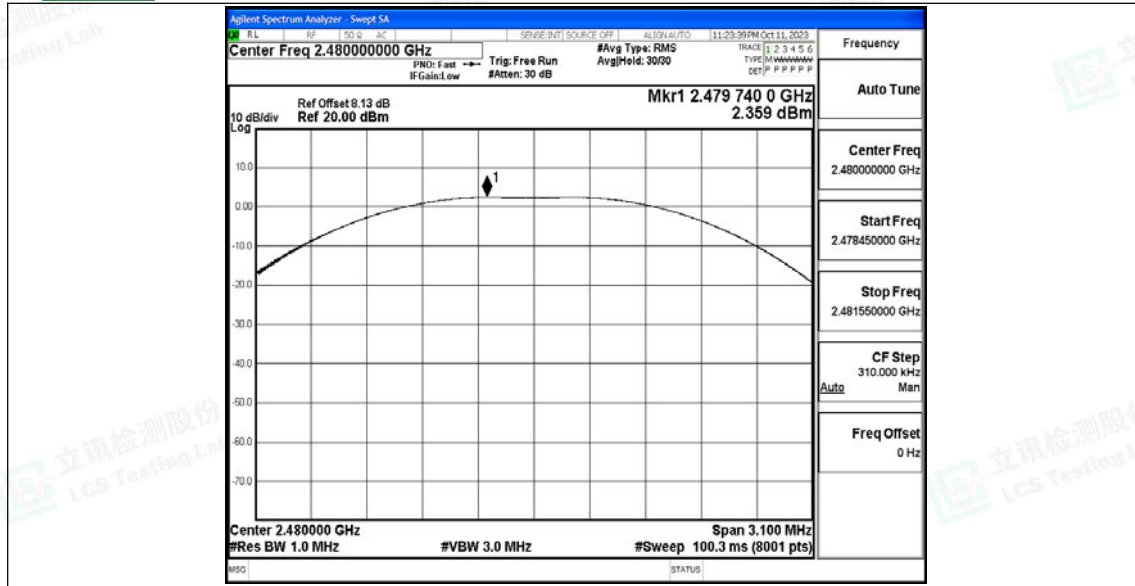


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B.3 Maximum power spectral density

Test Result

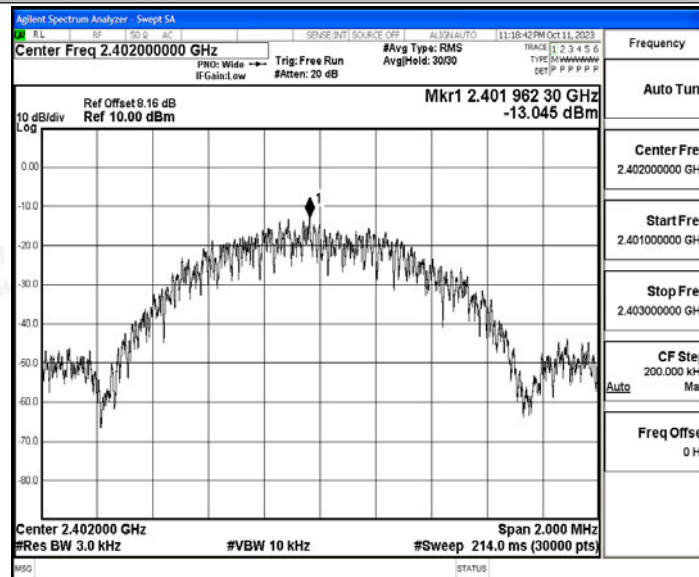
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.05	≤8.00	PASS
		2440	-12.62	≤8.00	PASS
		2480	-13	≤8.00	PASS



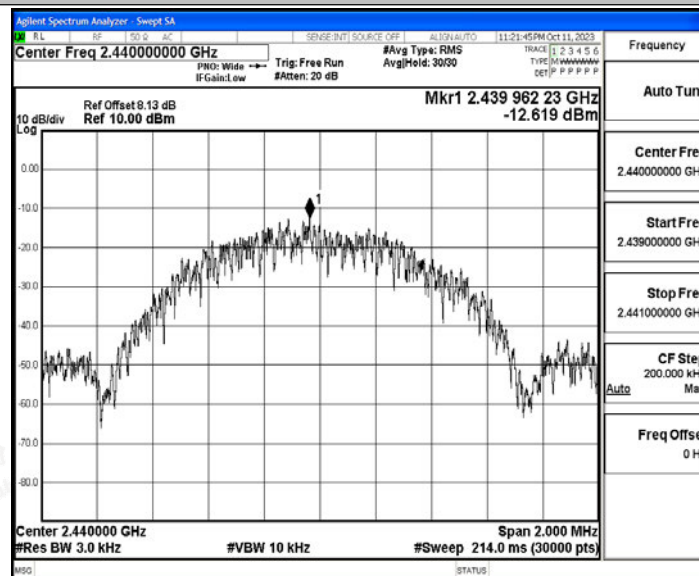


Test Graphs

BLE_1M_Ant1_2402

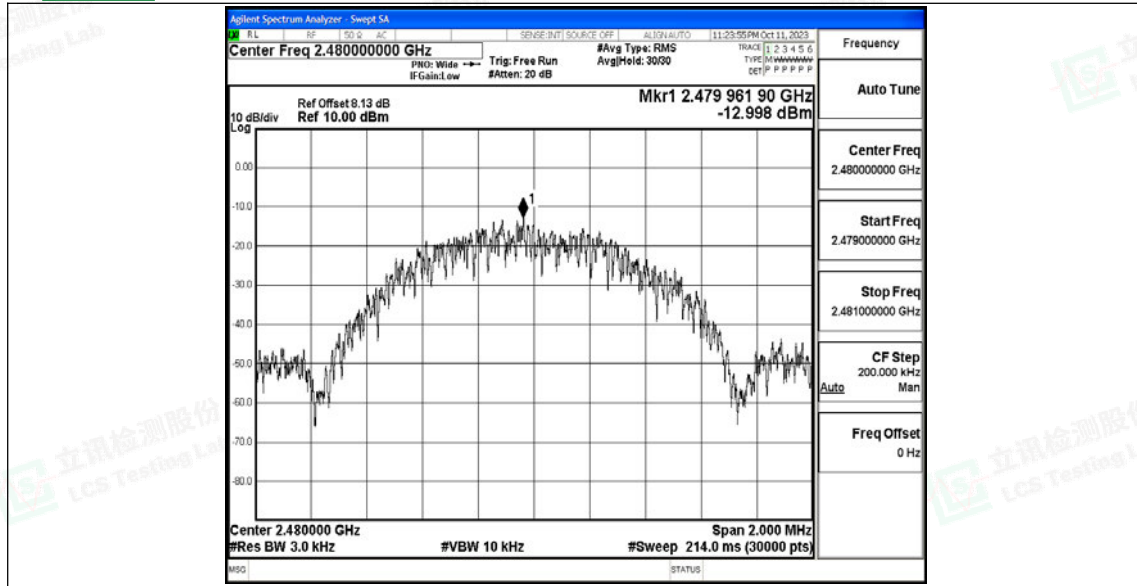


BLE_1M_Ant1_2440



BLE_1M_Ant1_2480







B.4 Band edge measurements

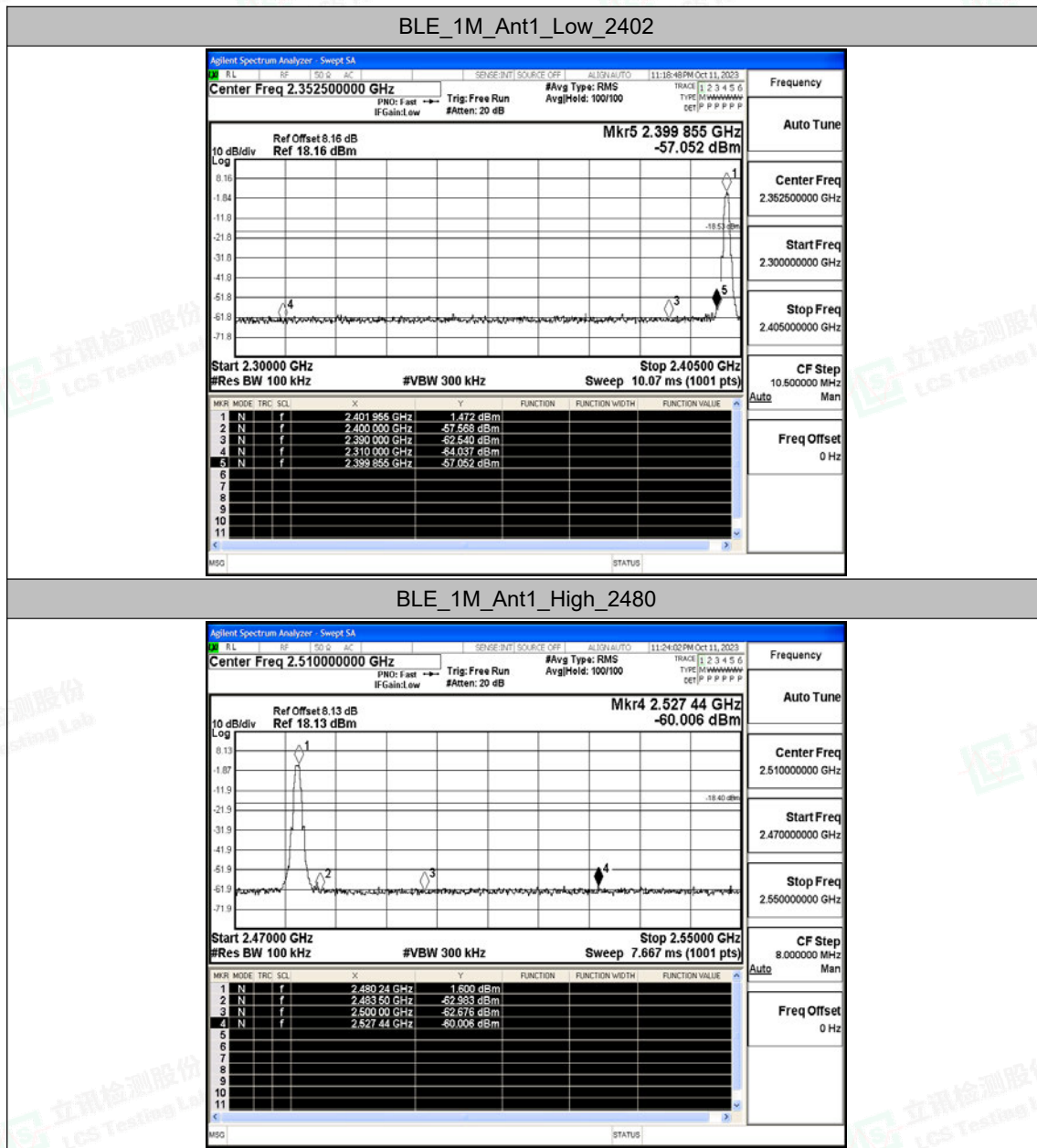
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.47	-57.05	≤-18.53	PASS
		High	2480	1.60	-60.01	≤-18.4	PASS





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	1.28	1.28	---	PASS
			30~1000	1.28	-59.02	≤-18.72	PASS
			1000~26500	1.28	-49.15	≤-18.72	PASS
		2440	Reference	1.75	1.75	---	PASS
			30~1000	1.75	-59.99	≤-18.25	PASS
			1000~26500	1.75	-49.13	≤-18.25	PASS
		2480	Reference	1.36	1.36	---	PASS
			30~1000	1.36	-60.82	≤-18.64	PASS
			1000~26500	1.36	-49.38	≤-18.64	PASS



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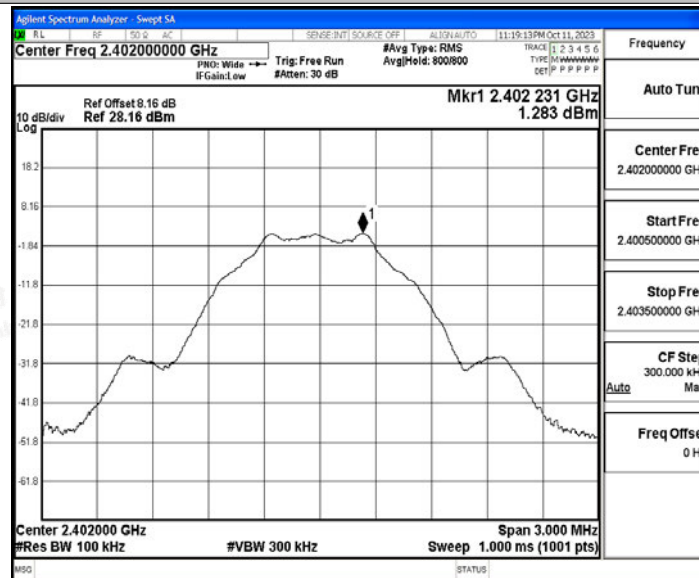
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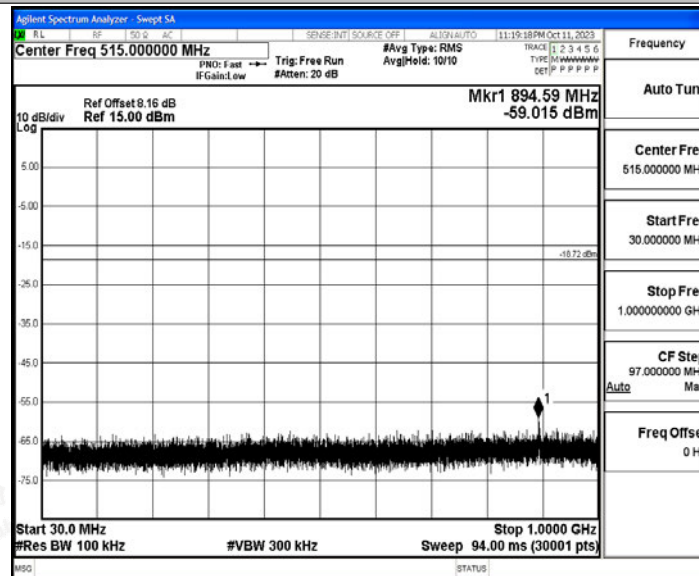


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

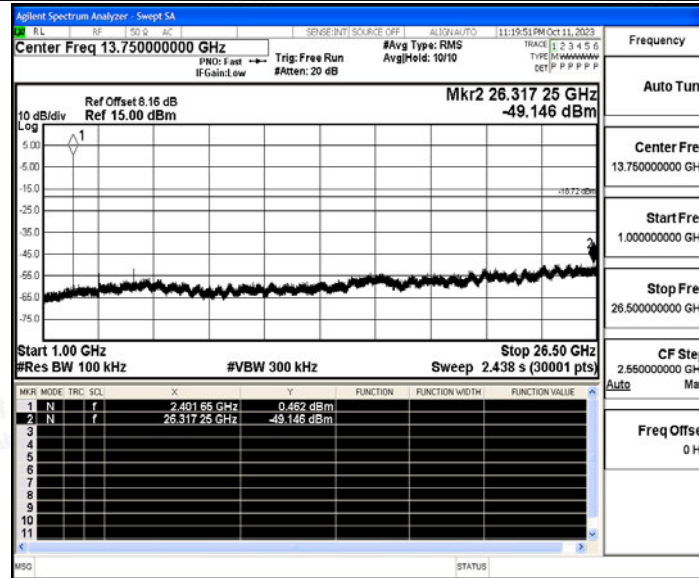


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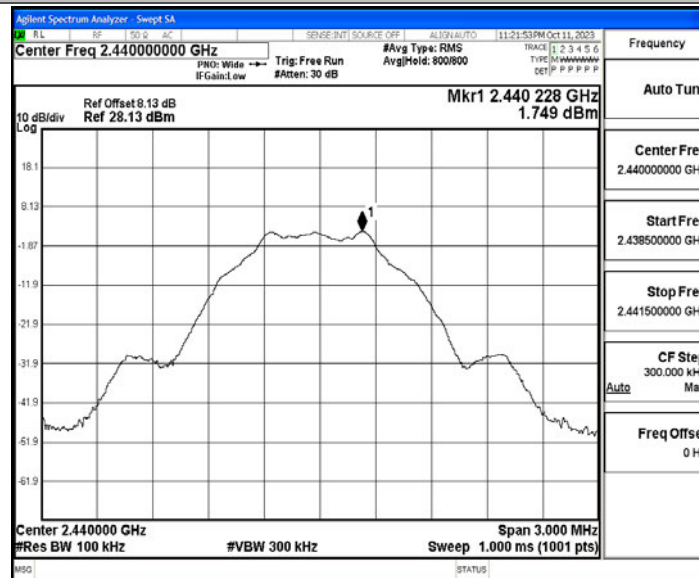
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

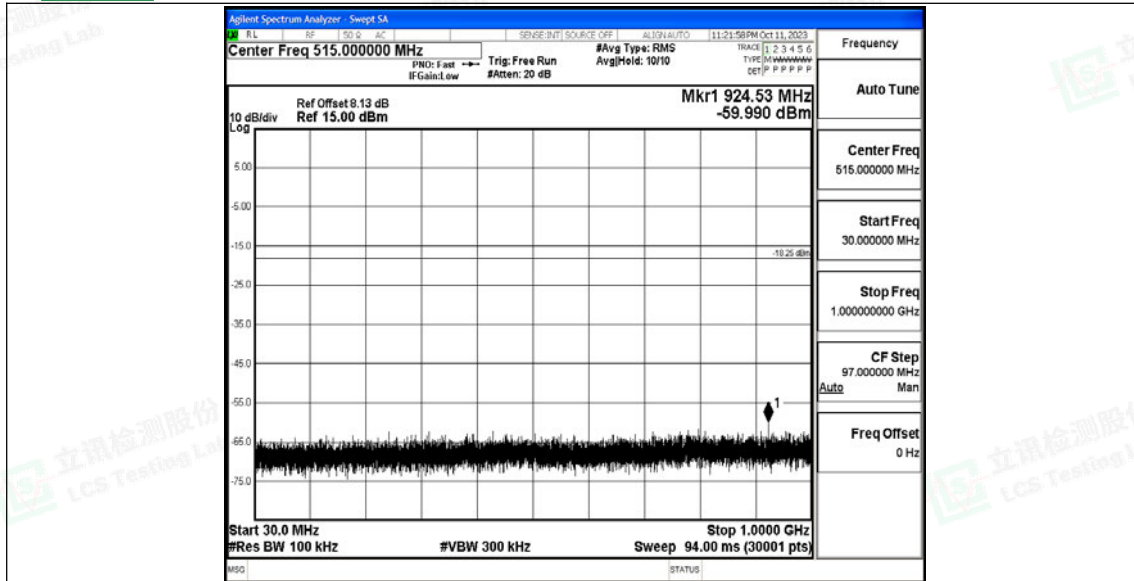


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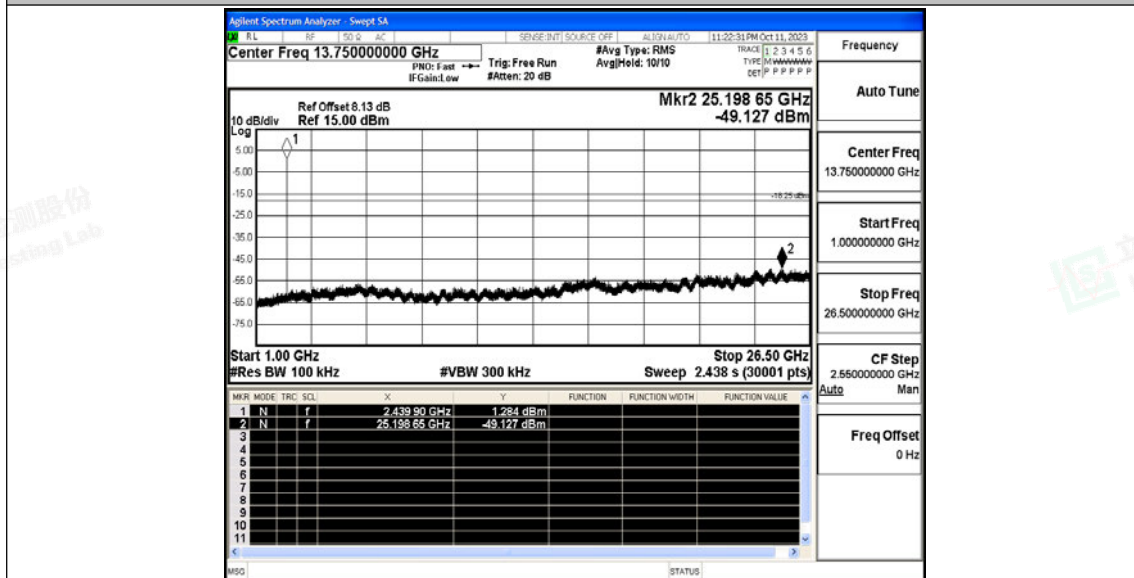
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

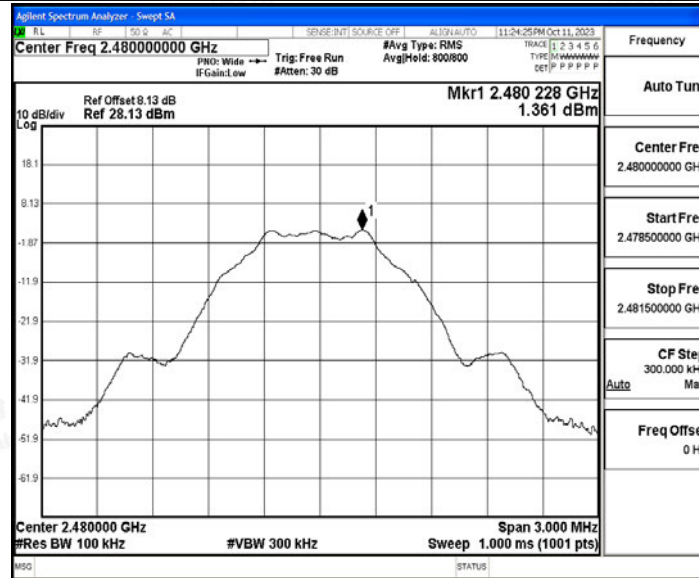


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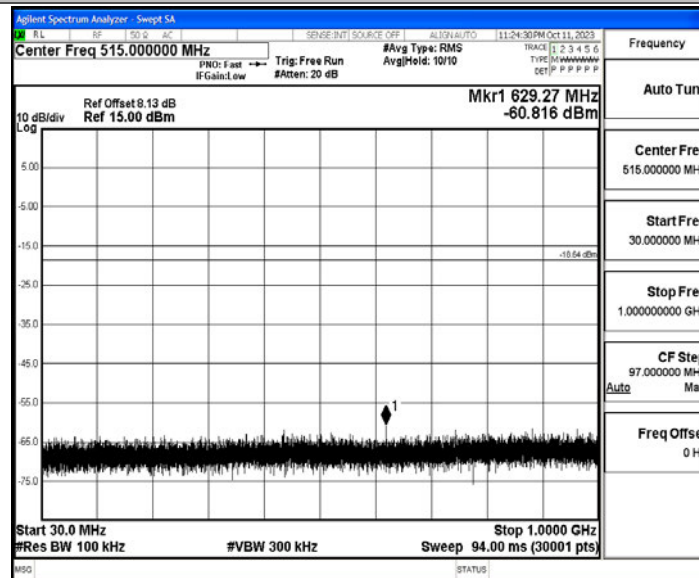
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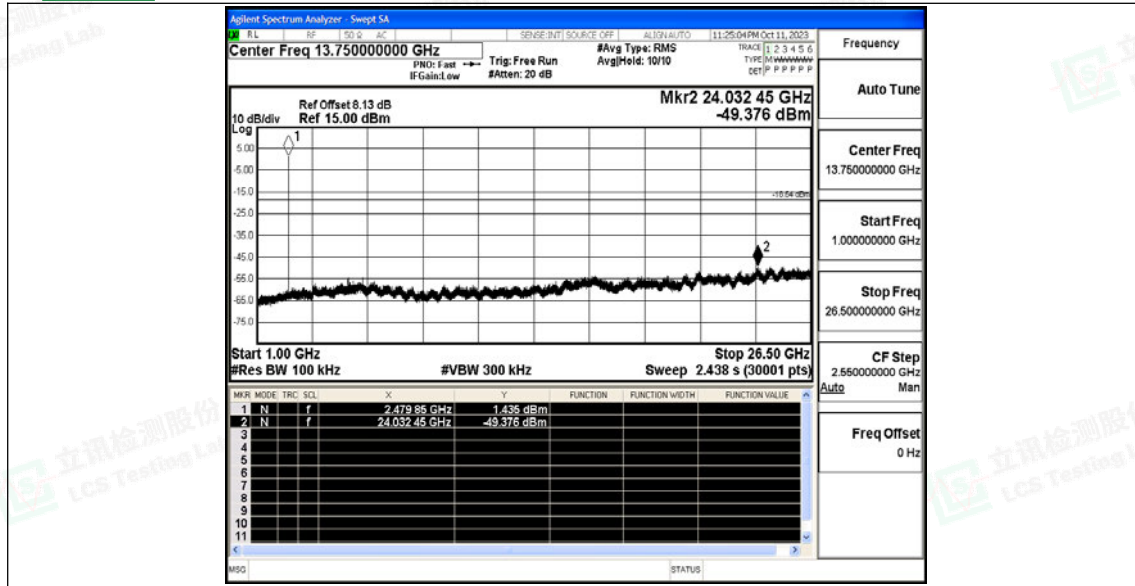


BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500







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	0.38	0.63	0.6032	60.32	2.20	2.63	---	---
		2480	0.38	0.63	0.6032	60.32	2.20	2.63	---	---



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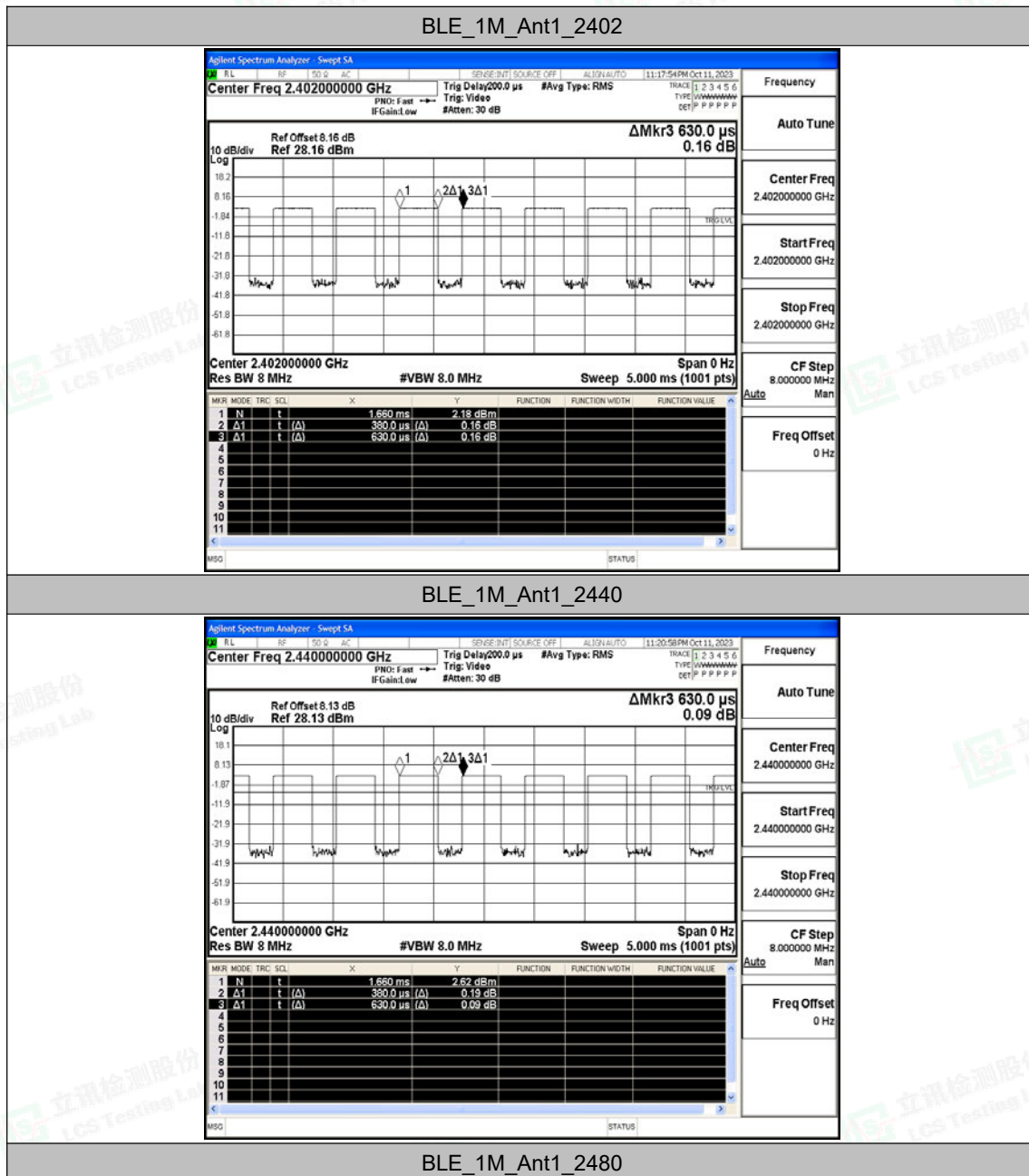
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Test Graphs

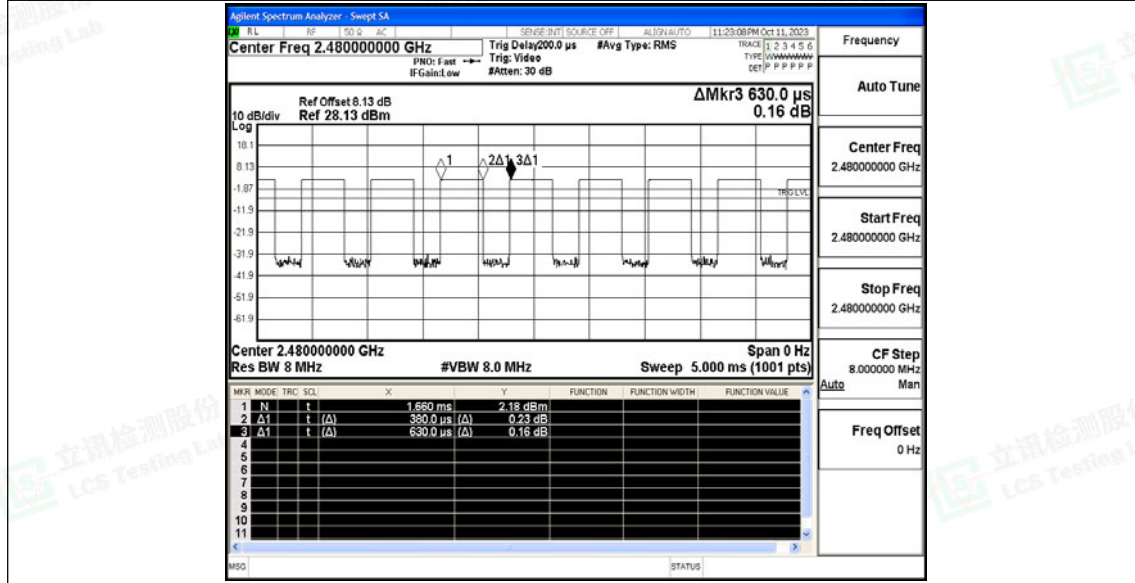


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B.7 Emissions in Restricted Bands

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	-58.56	≤-41.20	36.64	≤54	PASS
				AV	2382.845	-57.47	≤-41.20	37.73	≤54	PASS
				AV	2390.000	-58.23	≤-41.20	36.97	≤54	PASS
				Peak	2310.000	-53.39	≤-21.20	41.81	≤74	PASS
				Peak	2336.960	-48.69	≤-21.20	46.51	≤74	PASS
				Peak	2390.000	-50.51	≤-21.20	44.69	≤74	PASS
		High	2480	AV	2483.500	-52.62	≤-41.20	42.58	≤54	PASS
				AV	2483.520	-52.62	≤-41.20	42.58	≤54	PASS
				AV	2500.000	-58.06	≤-41.20	37.14	≤54	PASS
				Peak	2483.500	-50.34	≤-21.20	44.86	≤74	PASS
				Peak	2484.080	-47.28	≤-21.20	47.92	≤74	PASS
				Peak	2500.000	-50.59	≤-21.20	44.61	≤74	PASS

Note:

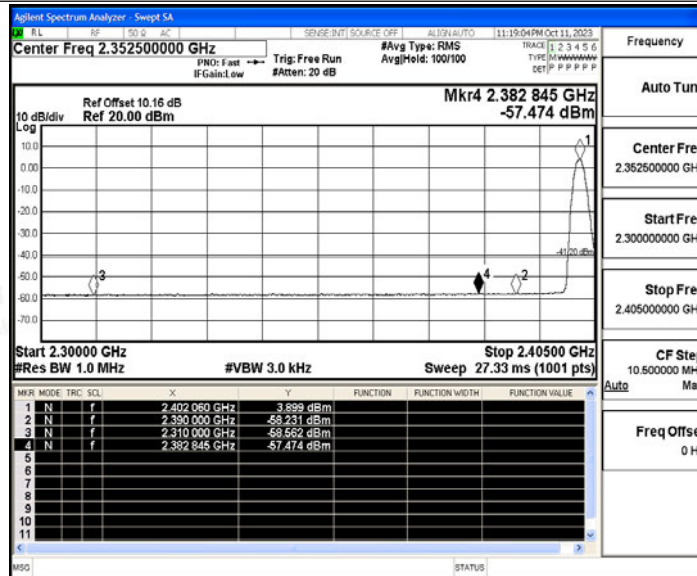
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



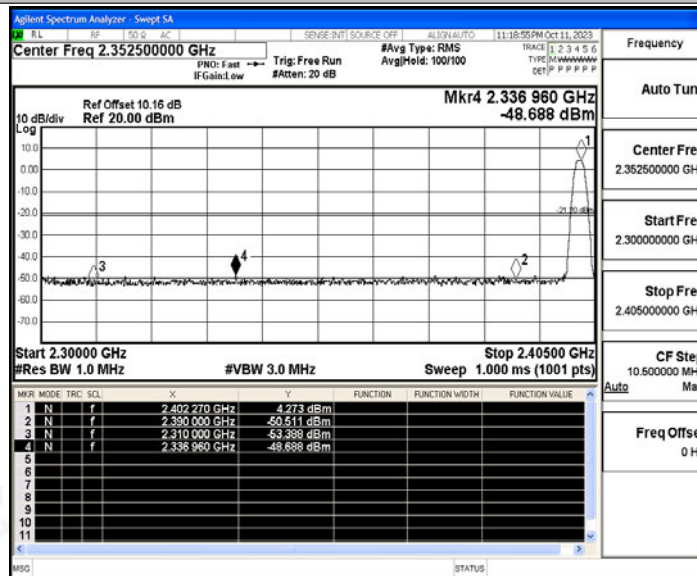


Test Graphs

BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV

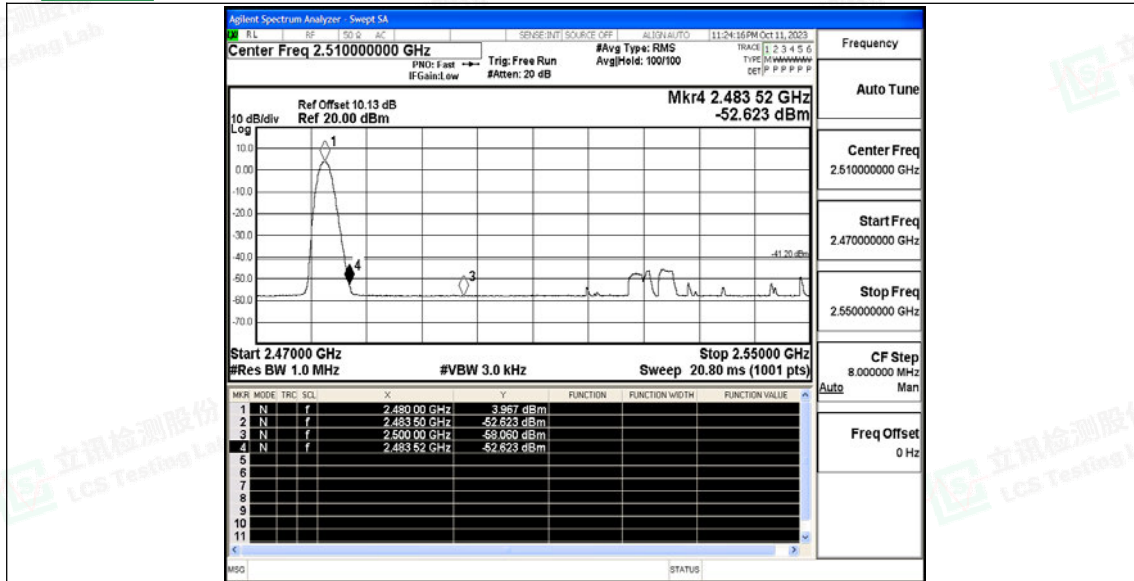


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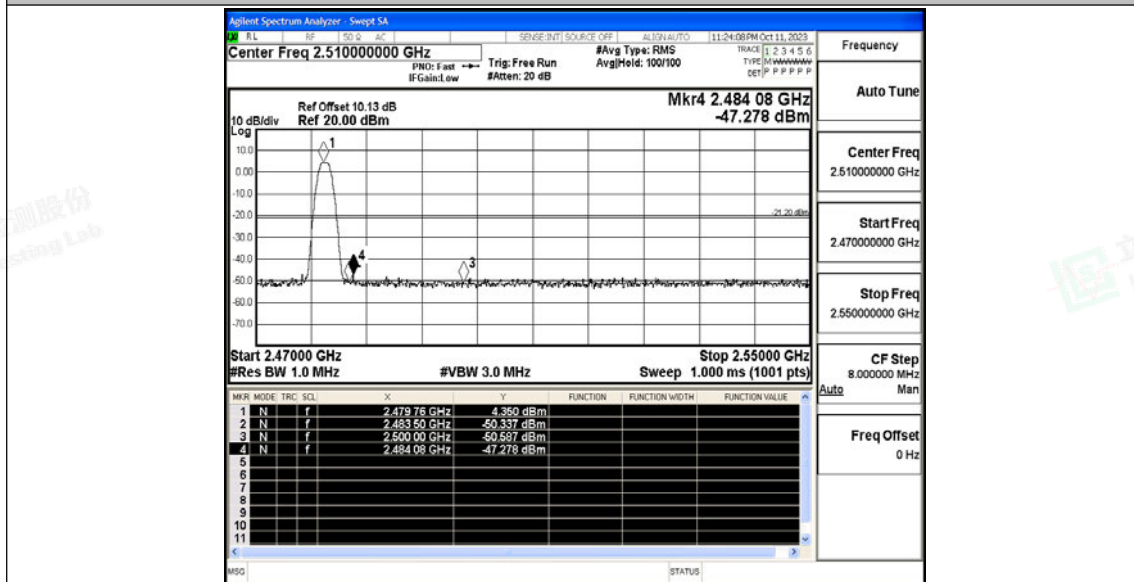
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BLE_1M_Ant1_High_2480_Peak



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