



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Tablet

Test Model: Puya

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

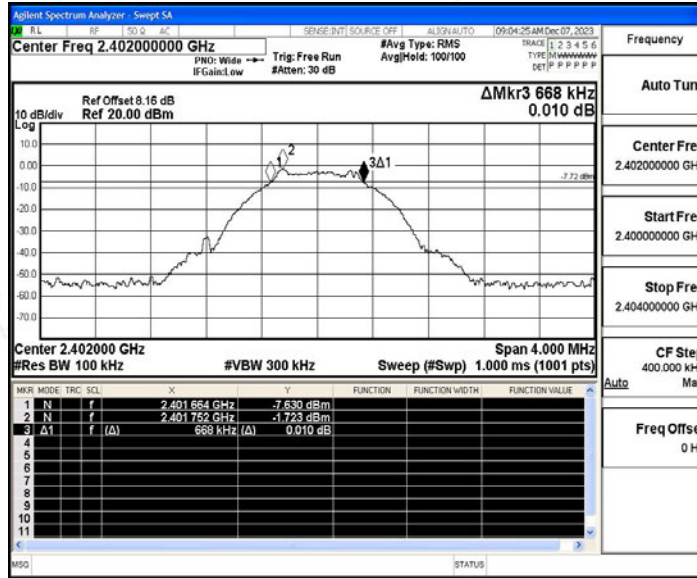
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.664	2402.332	0.5	PASS
		2440	0.672	2439.668	2440.340	0.5	PASS
		2480	0.656	2479.672	2480.328	0.5	PASS
BLE_2M	Ant1	2402	1.320	2401.336	2402.656	0.5	PASS
		2440	1.152	2439.428	2440.580	0.5	PASS
		2480	1.156	2479.408	2480.564	0.5	PASS



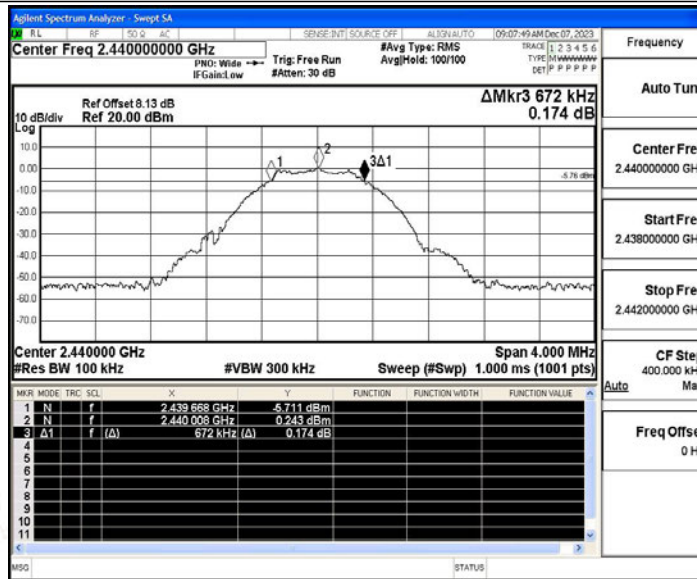


Test Graphs

BLE_1M_Ant1_2402

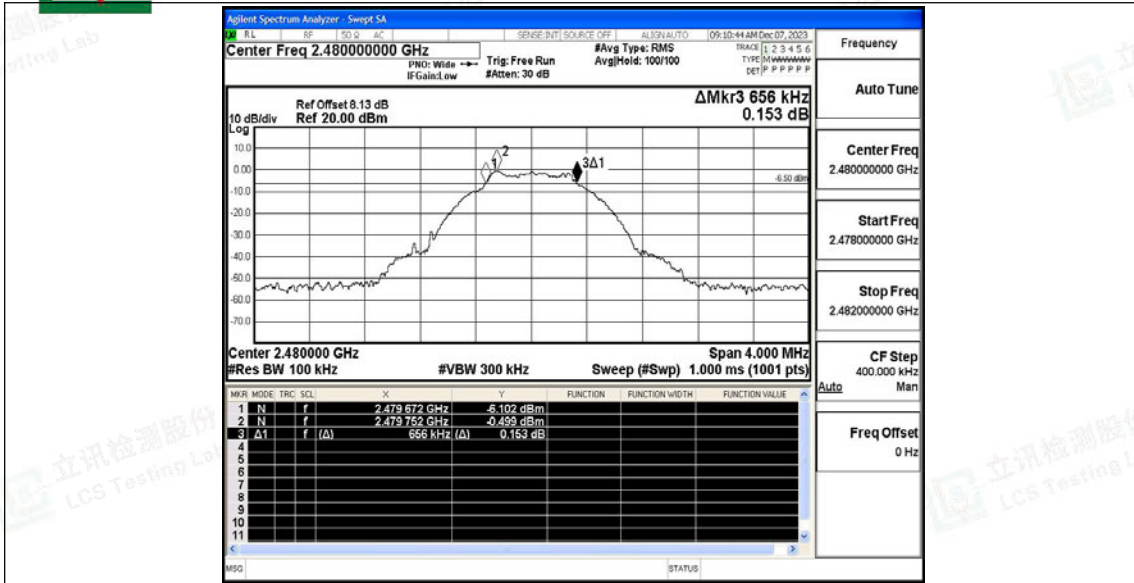


BLE_1M_Ant1_2440

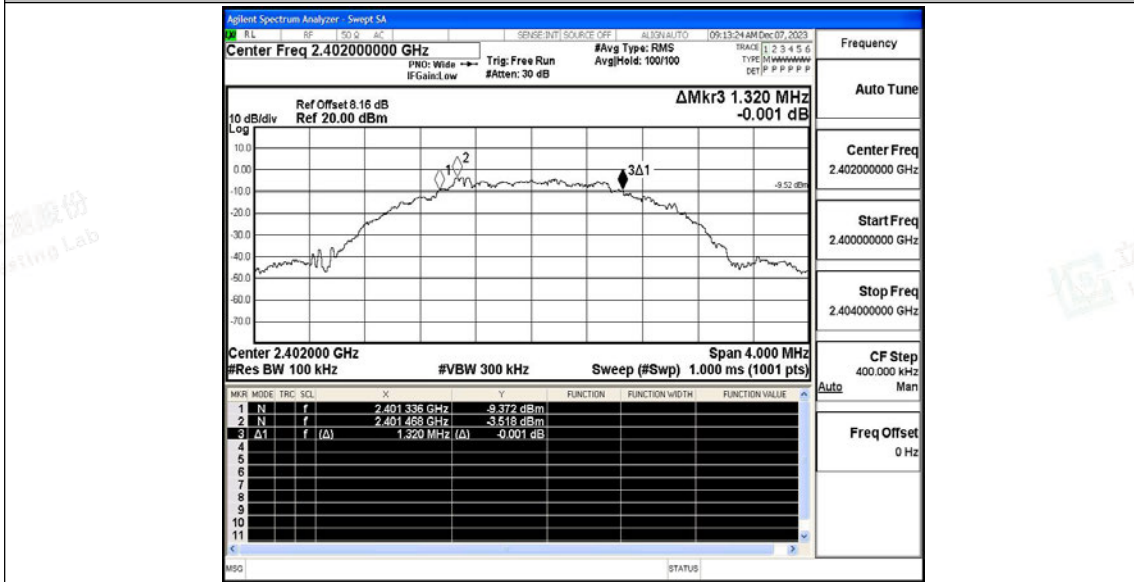


BLE_1M_Ant1_2480



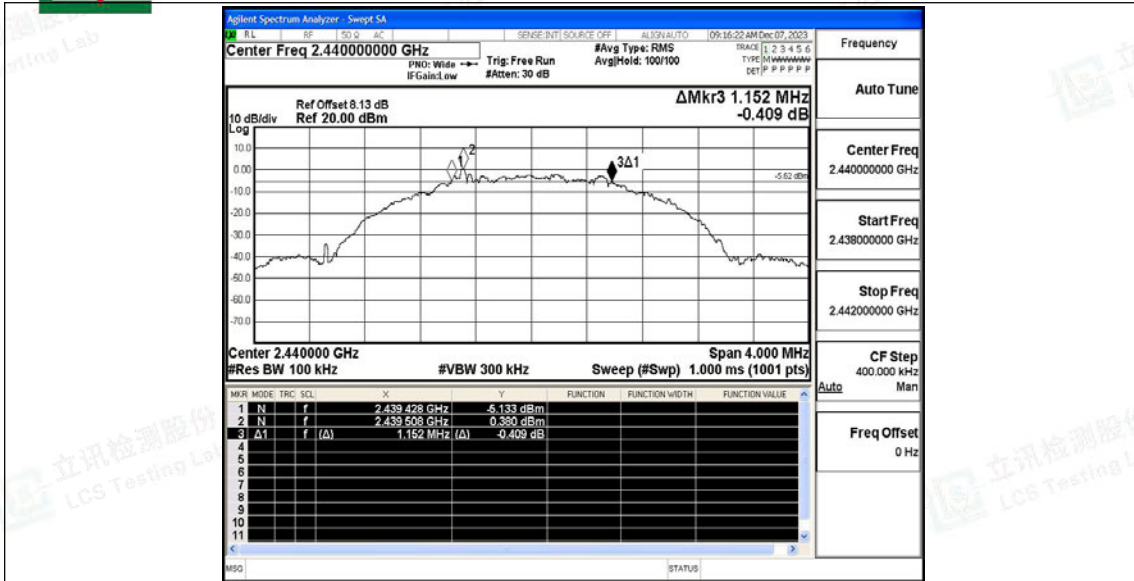


BLE_2M_Ant1_2402

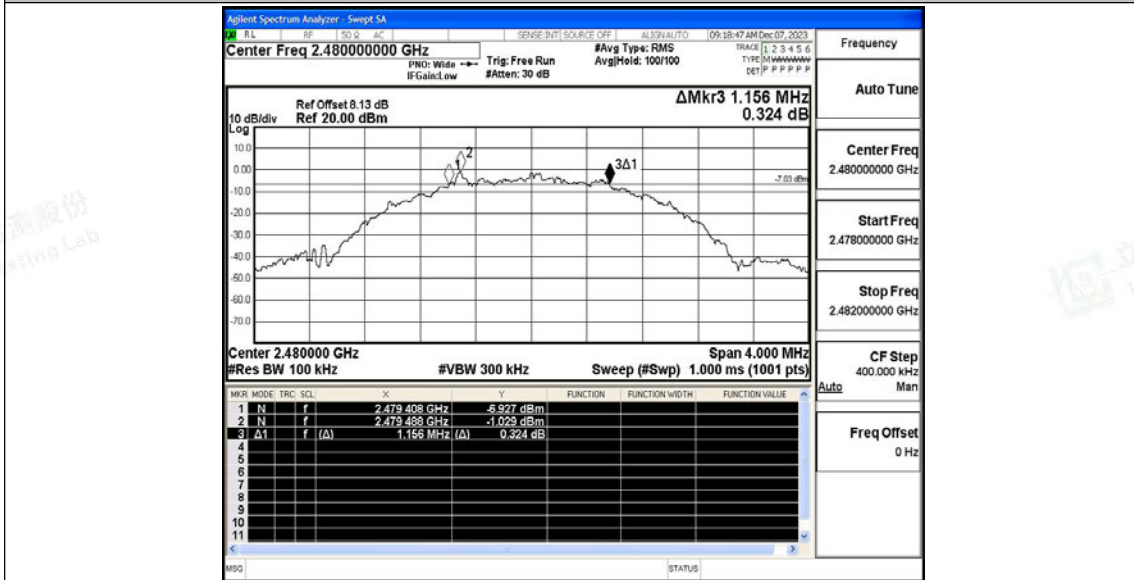


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480





B.2 Maximum conducted output power

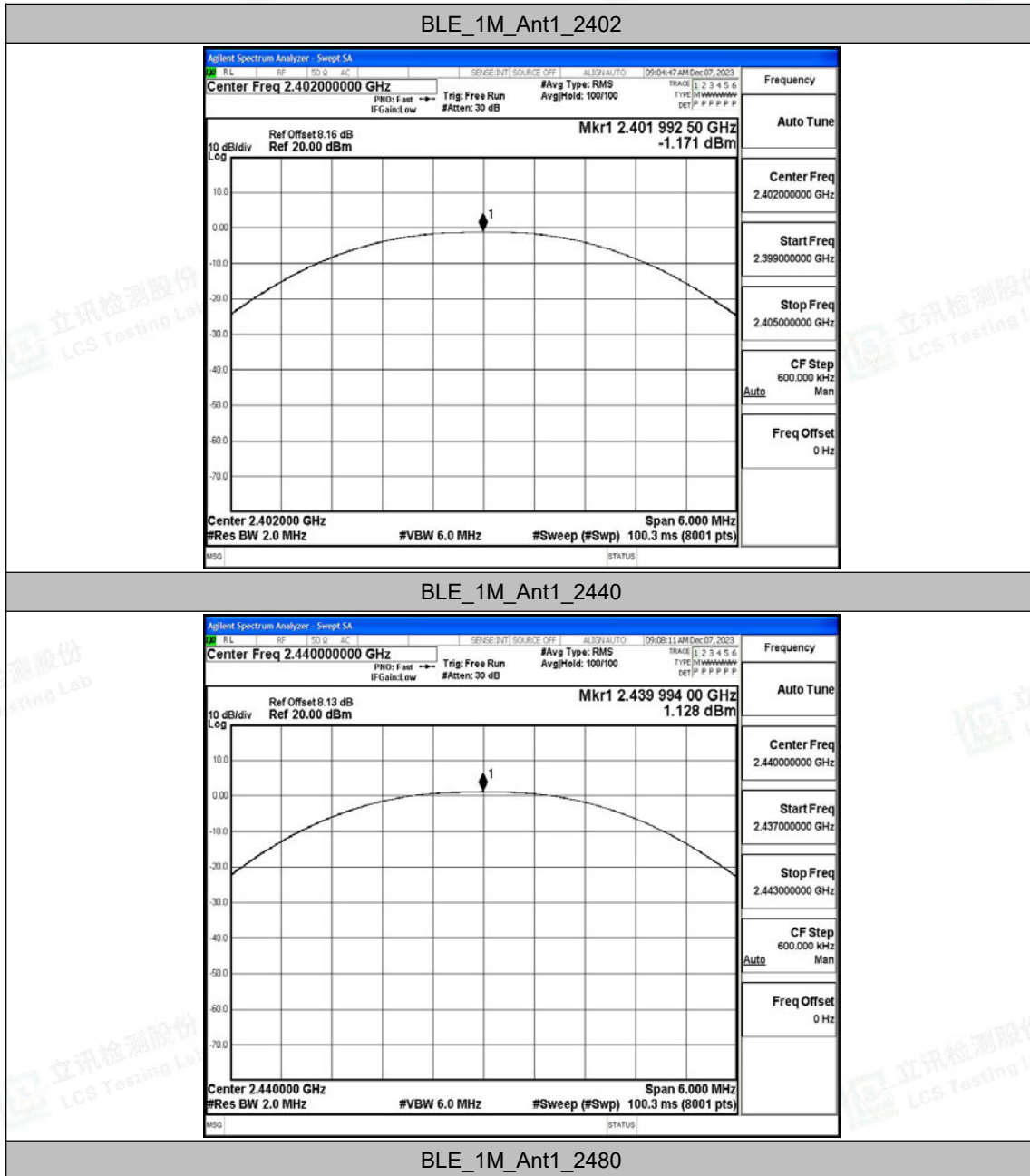
Test Result

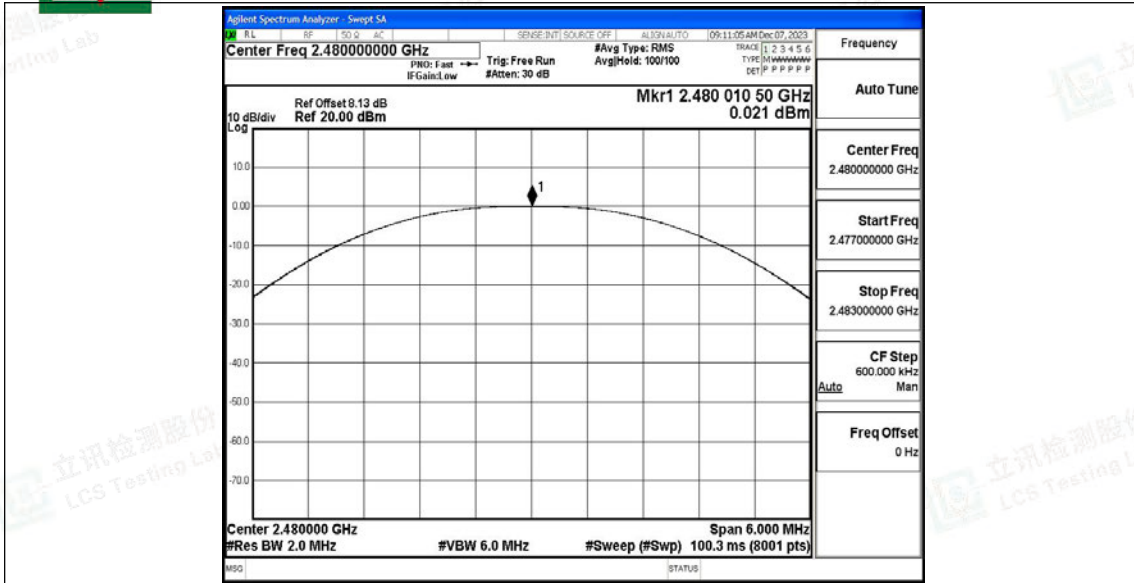
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.17	≤30	PASS
		2440	1.13	≤30	PASS
		2480	0.02	≤30	PASS
BLE_2M	Ant1	2402	-1.12	≤30	PASS
		2440	0.99	≤30	PASS
		2480	-0.17	≤30	PASS



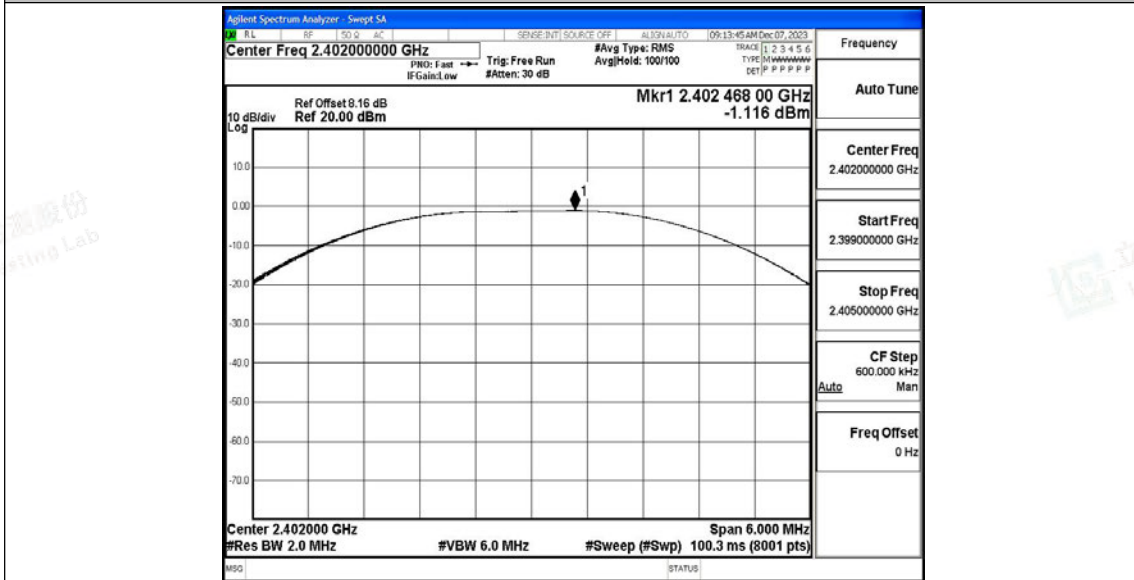


Test Graphs



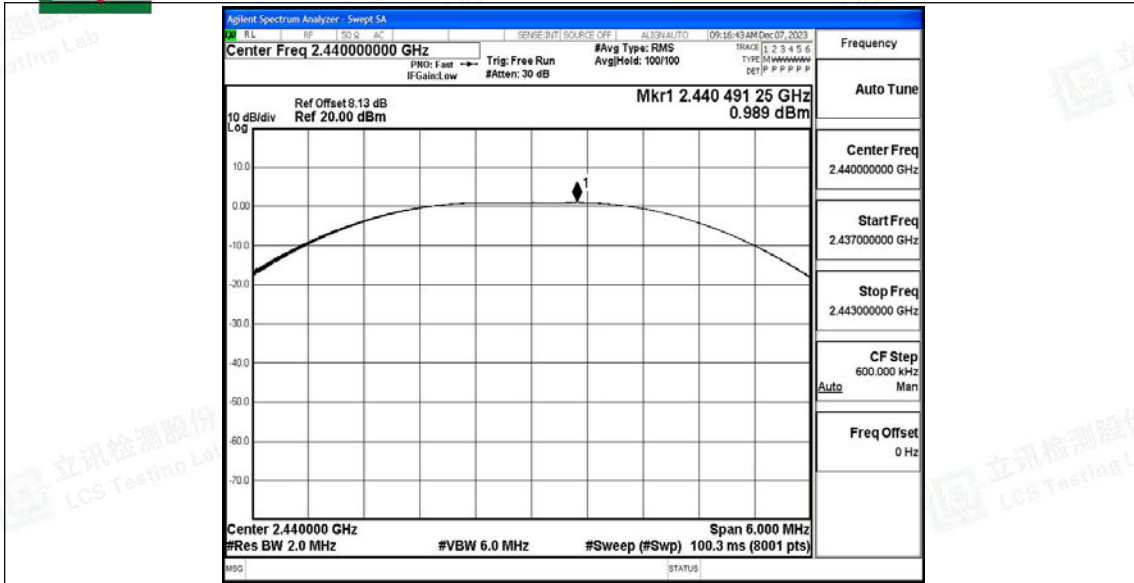


BLE_2M_Ant1_2402

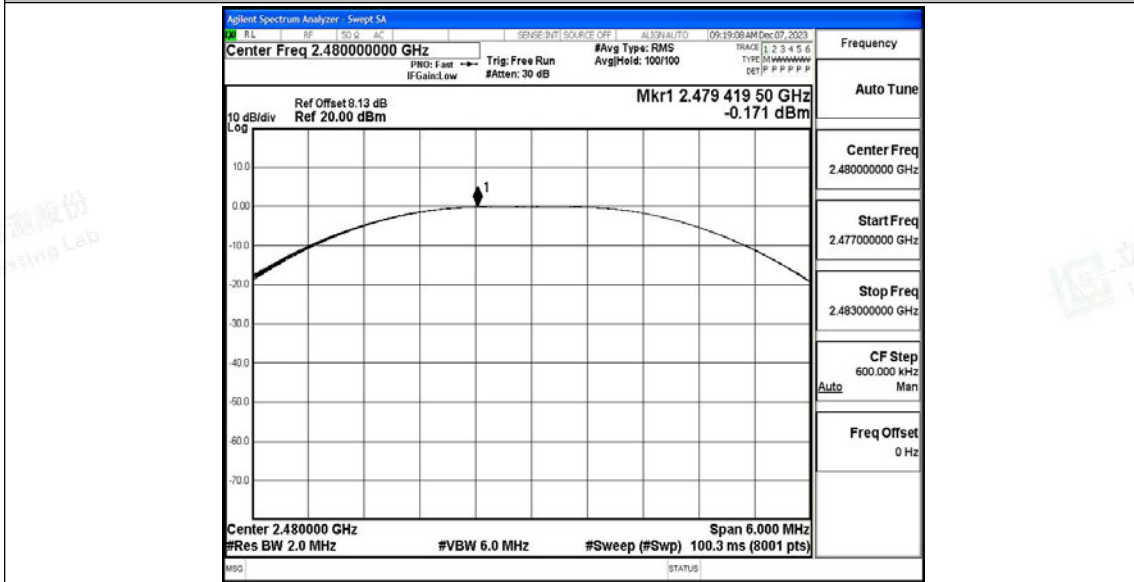


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480





B.3 Maximum power spectral density

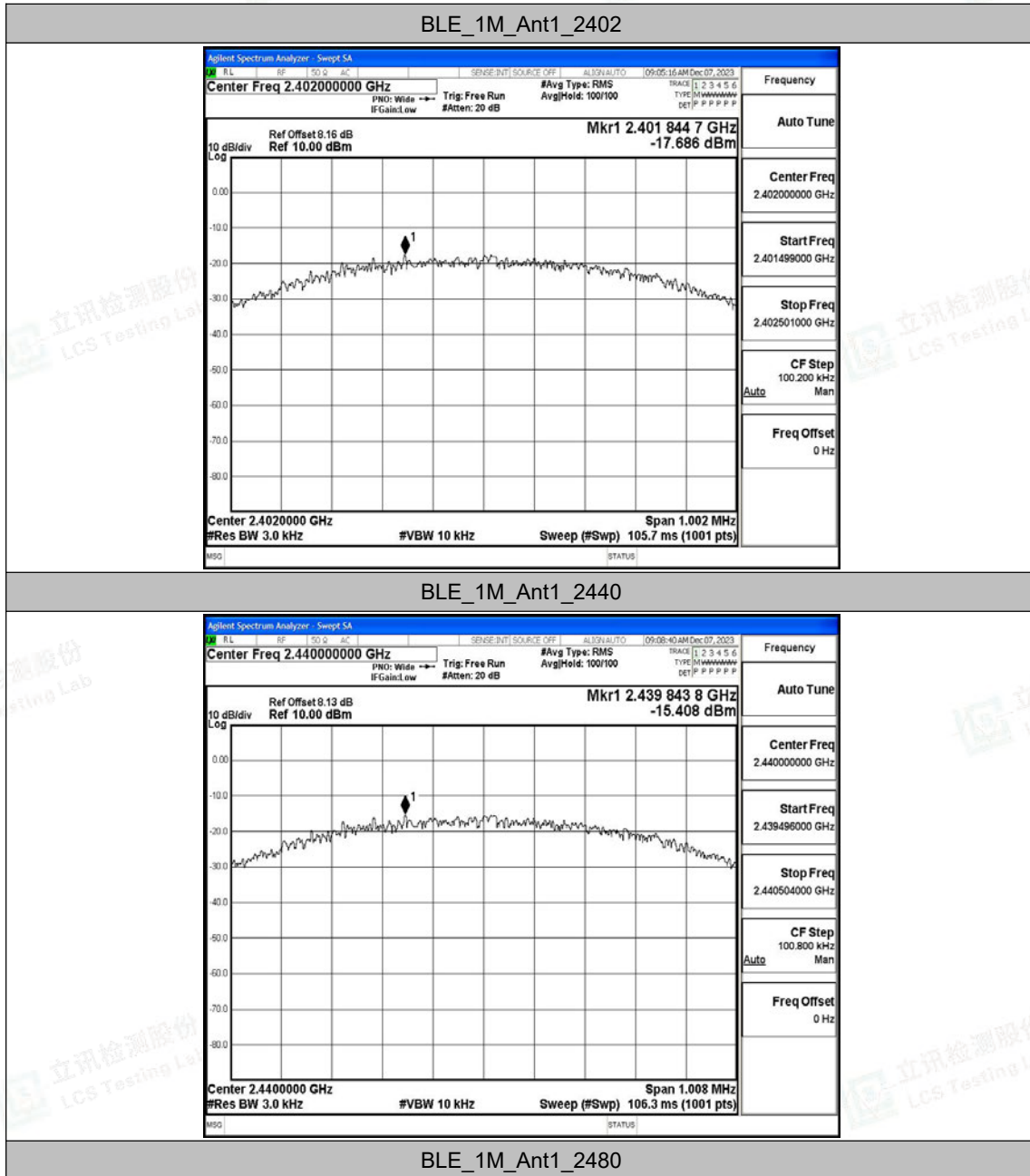
Test Result

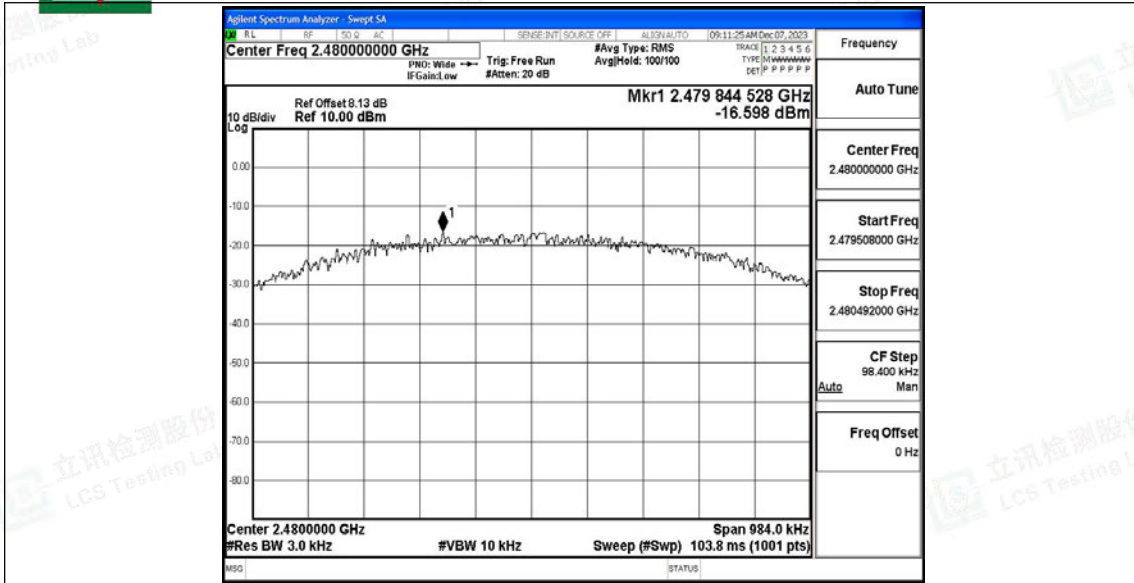
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.69	≤8.00	PASS
		2440	-15.41	≤8.00	PASS
		2480	-16.6	≤8.00	PASS
BLE_2M	Ant1	2402	-20.78	≤8.00	PASS
		2440	-18.52	≤8.00	PASS
		2480	-19.5	≤8.00	PASS



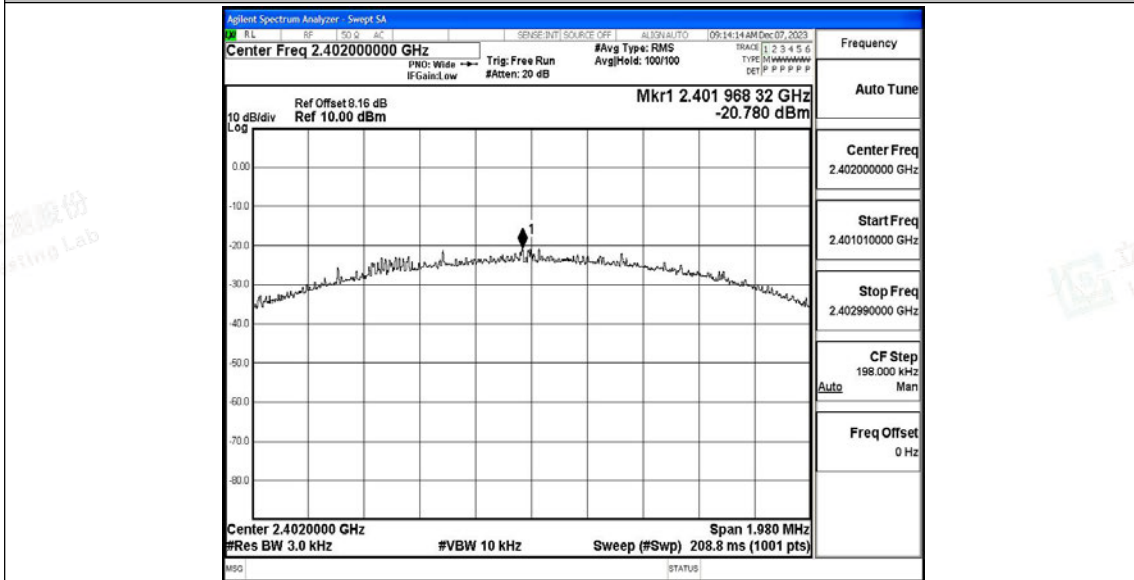


Test Graphs



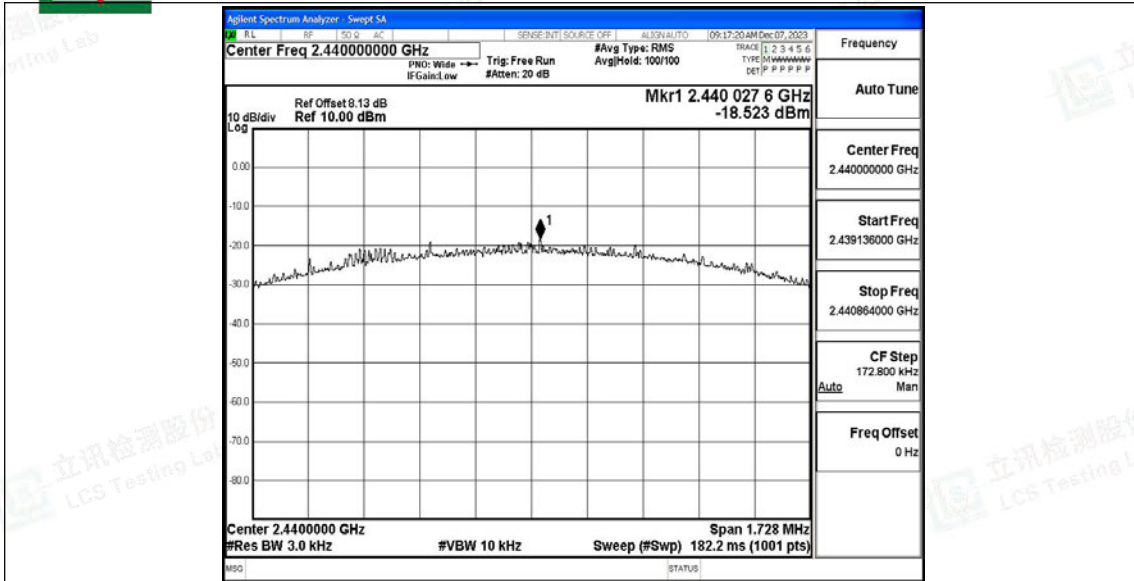


BLE_2M_Ant1_2402

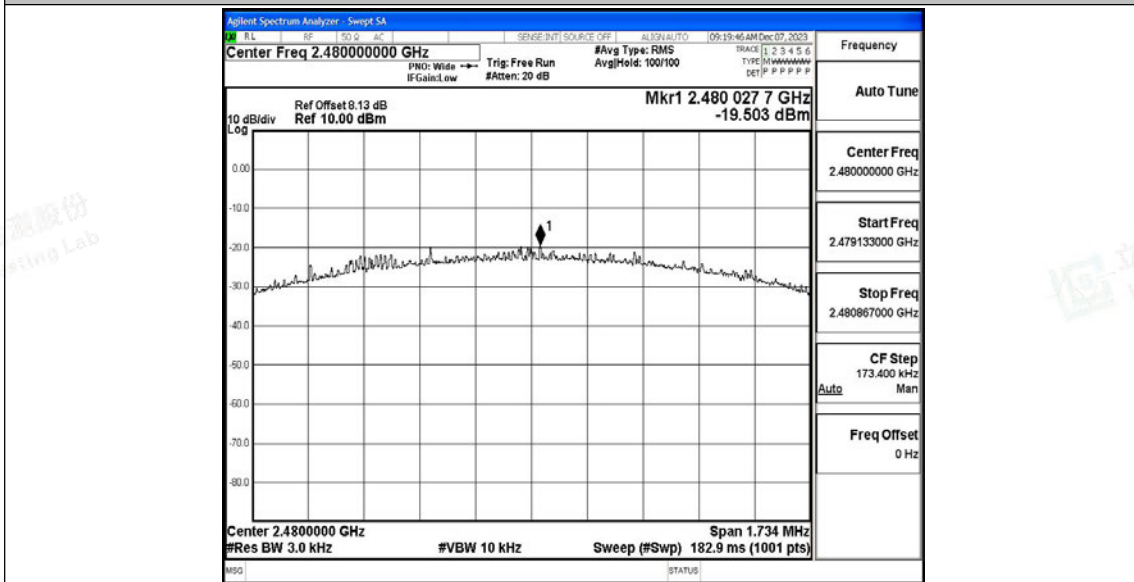


BLE_2M_Ant1_2440





BLE_2M_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	-1.69	-50.16	≤-21.69	PASS
		High	2480	-0.67	-49.5	≤-20.67	PASS
BLE_2M	Ant1	Low	2402	-1.84	-44.32	≤-21.84	PASS
		High	2480	-1.57	-50.04	≤-21.57	PASS



Shenzhen LCS Compliance Testing Laboratory Ltd.

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

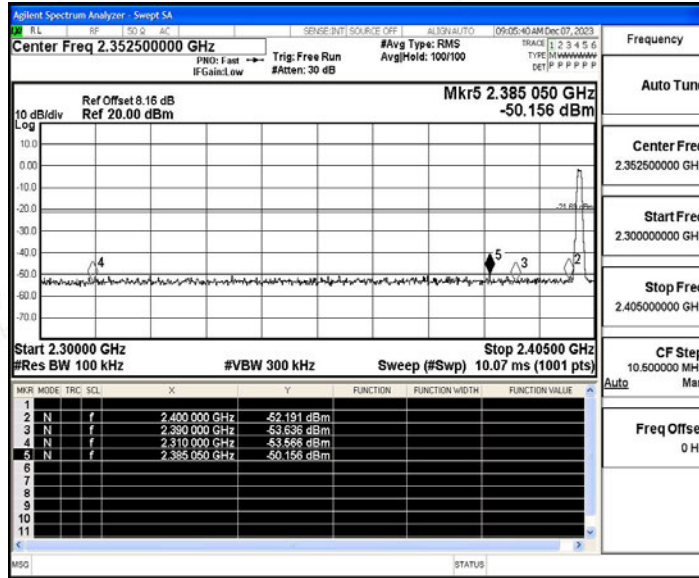
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

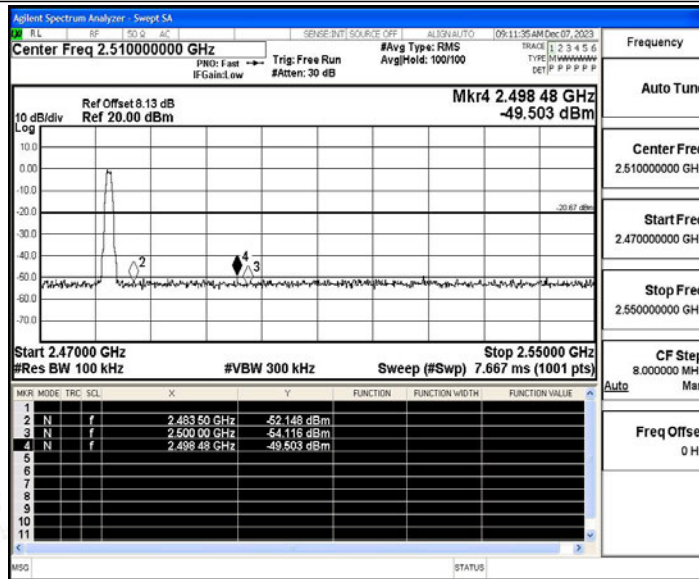


Test Graphs

BLE_1M_Ant1_Low_2402

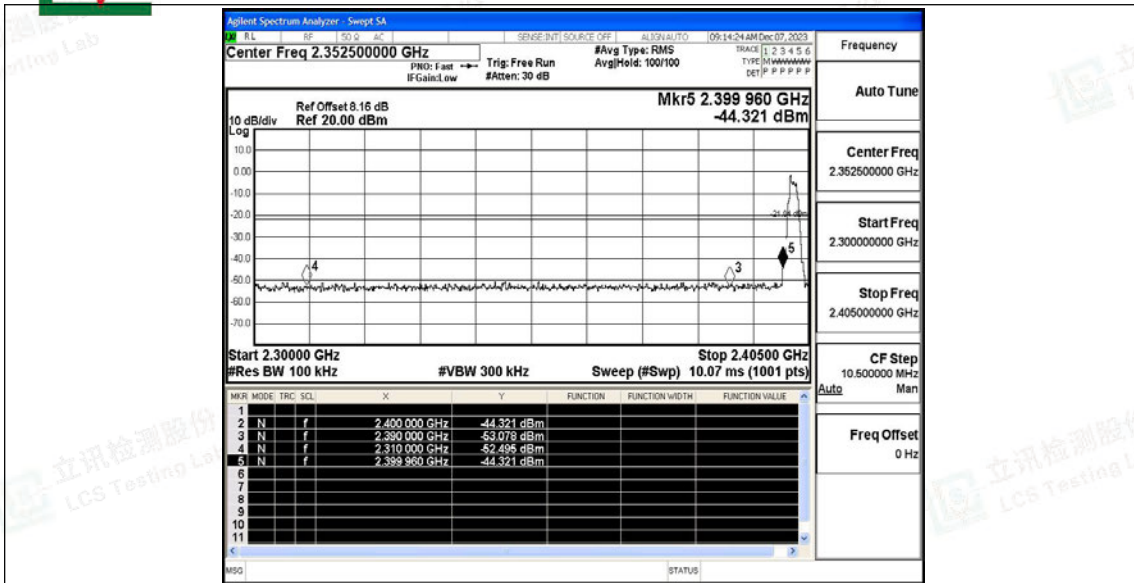


BLE_1M_Ant1_High_2480

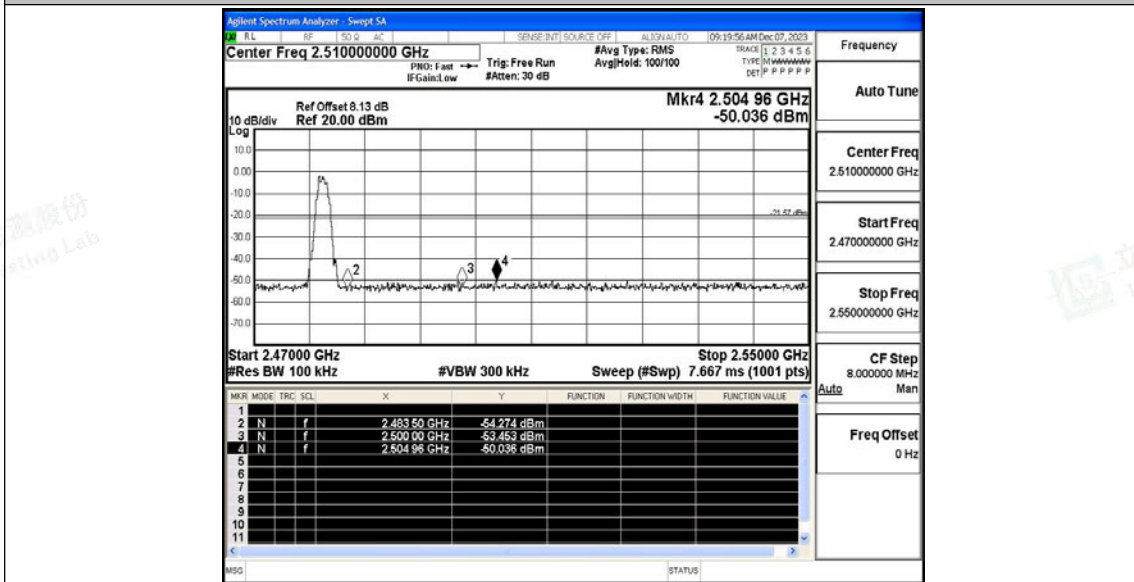


BLE_2M_Ant1_Low_2402





BLE_2M_Ant1_High_2480





B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	-1.69	-62.31	≤-21.69	PASS
			1000~26500	-1.69	-49.13	≤-21.69	PASS
		2440	30~1000	0.60	-61.49	≤-19.4	PASS
			1000~26500	0.60	-49.9	≤-19.4	PASS
		2480	30~1000	-0.67	-61.12	≤-20.67	PASS
			1000~26500	-0.67	-48.76	≤-20.67	PASS
BLE_2M	Ant1	2402	30~1000	-1.84	-62.3	≤-21.84	PASS
			1000~26500	-1.84	-48.94	≤-21.84	PASS
		2440	30~1000	0.38	-61.51	≤-19.62	PASS
			1000~26500	0.38	-49.16	≤-19.62	PASS
		2480	30~1000	-1.57	-61.78	≤-21.57	PASS
			1000~26500	-1.57	-49.45	≤-21.57	PASS



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

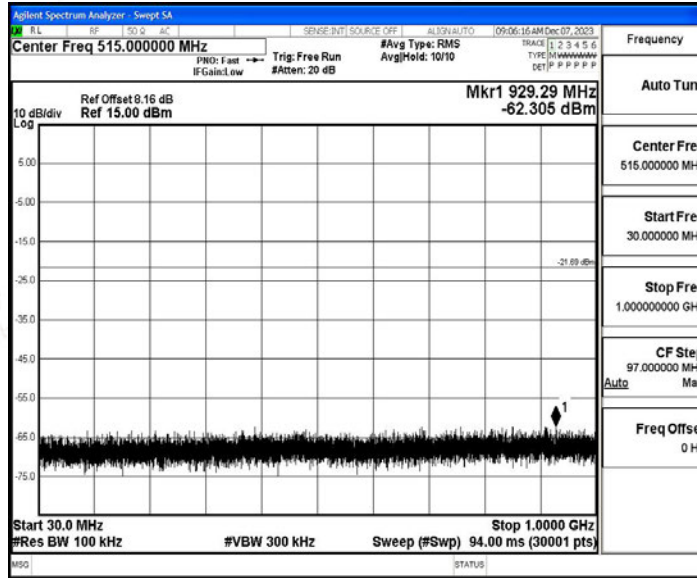
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

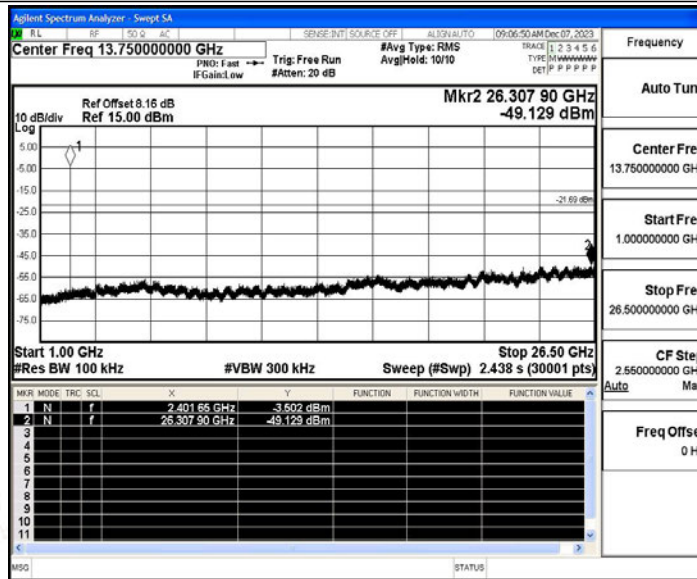


Test Graphs

BLE_1M_Ant1_2402_30~1000

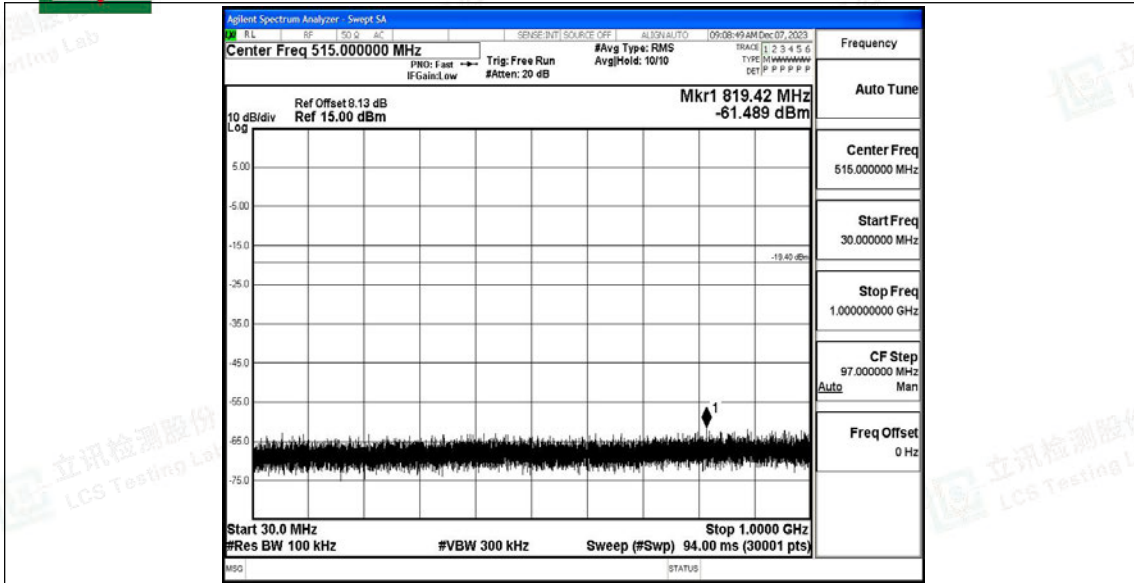


BLE_1M_Ant1_2402_1000~26500

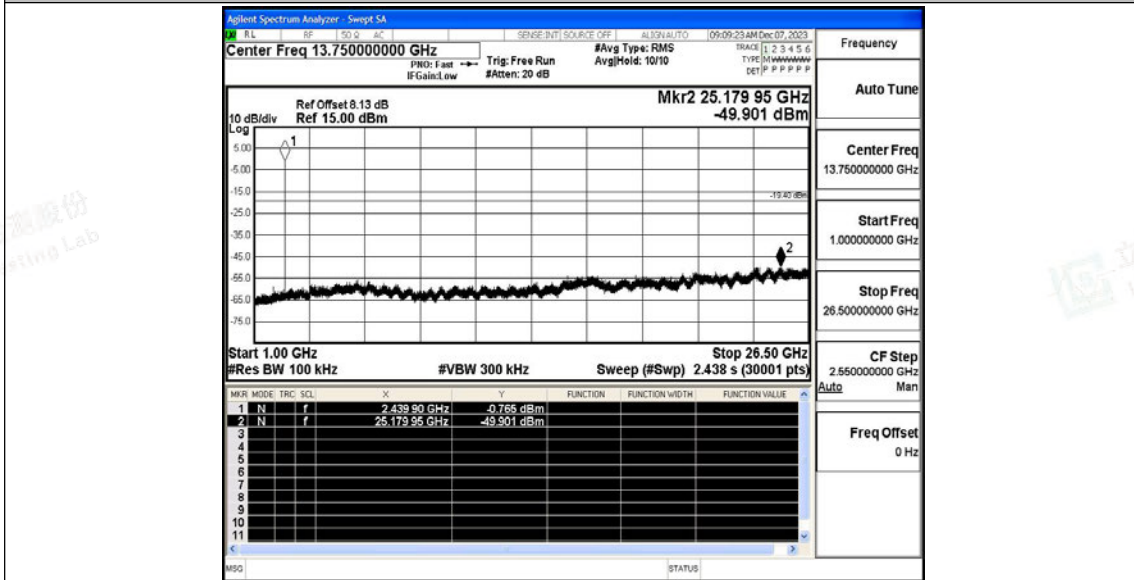


BLE_1M_Ant1_2440_30~1000



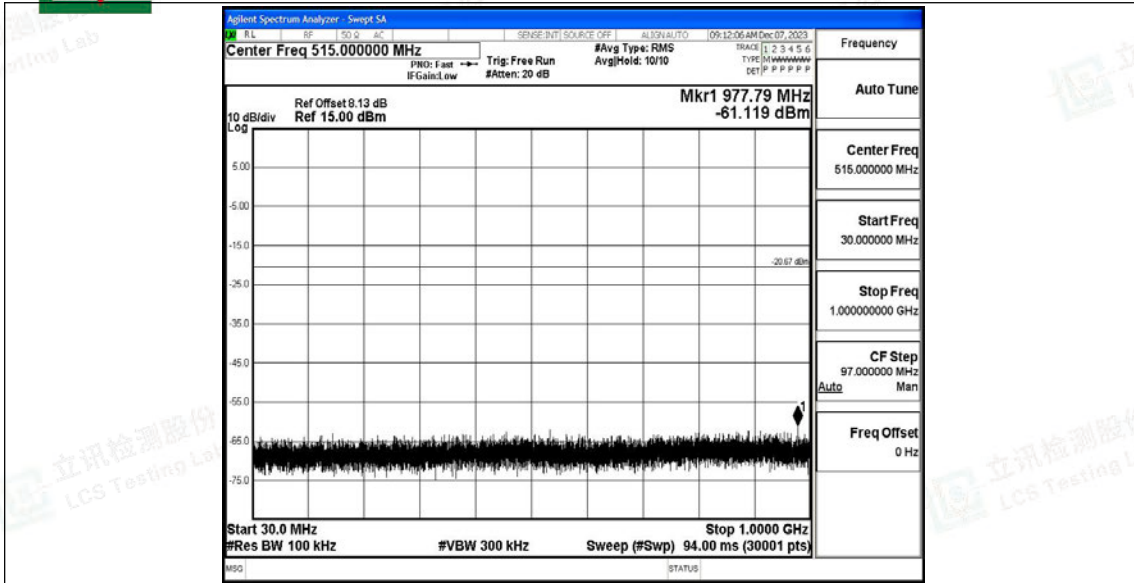


BLE_1M_Ant1_2440_1000~26500

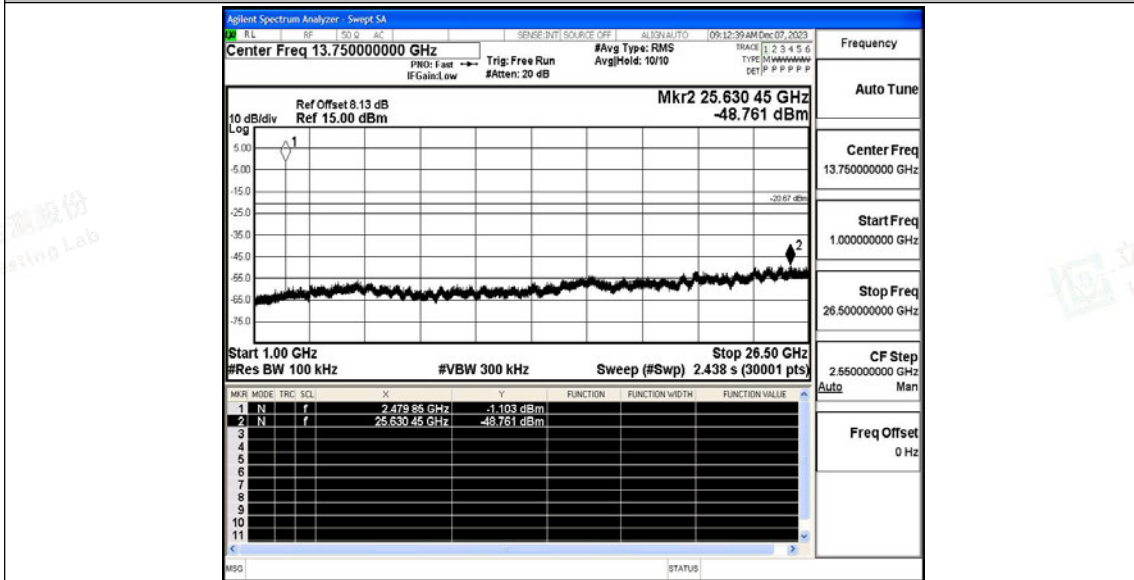


BLE_1M_Ant1_2480_30~1000



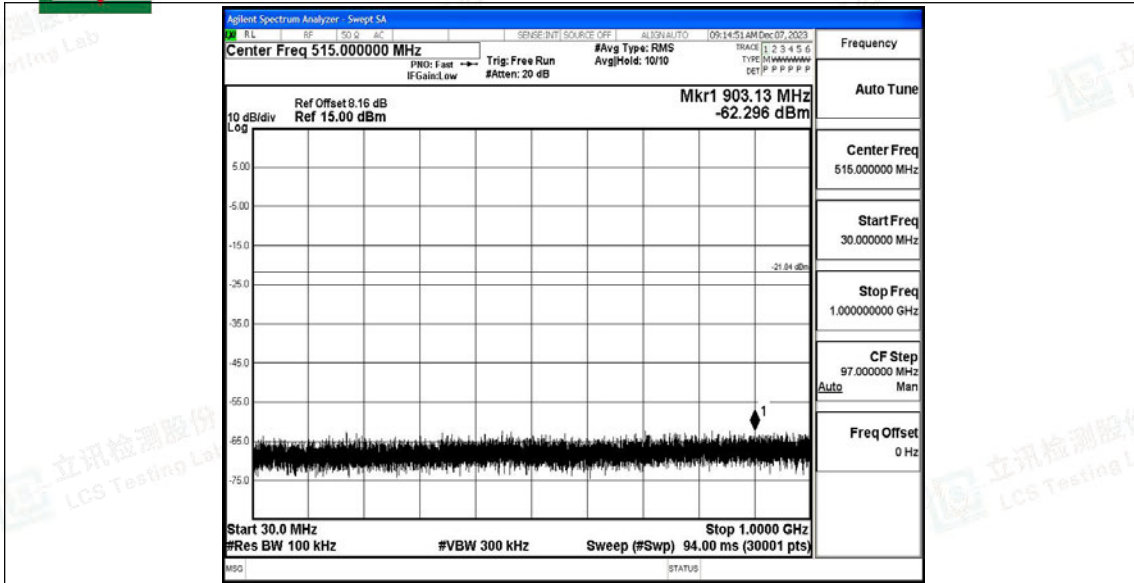


BLE_1M_Ant1_2480_1000~26500

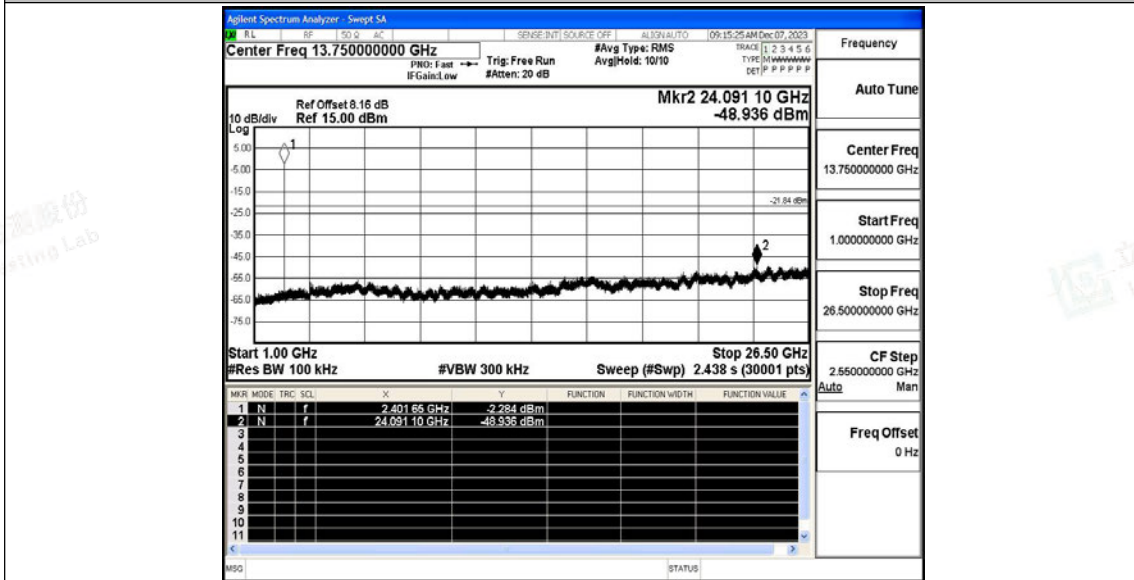


BLE_2M_Ant1_2402_30~1000



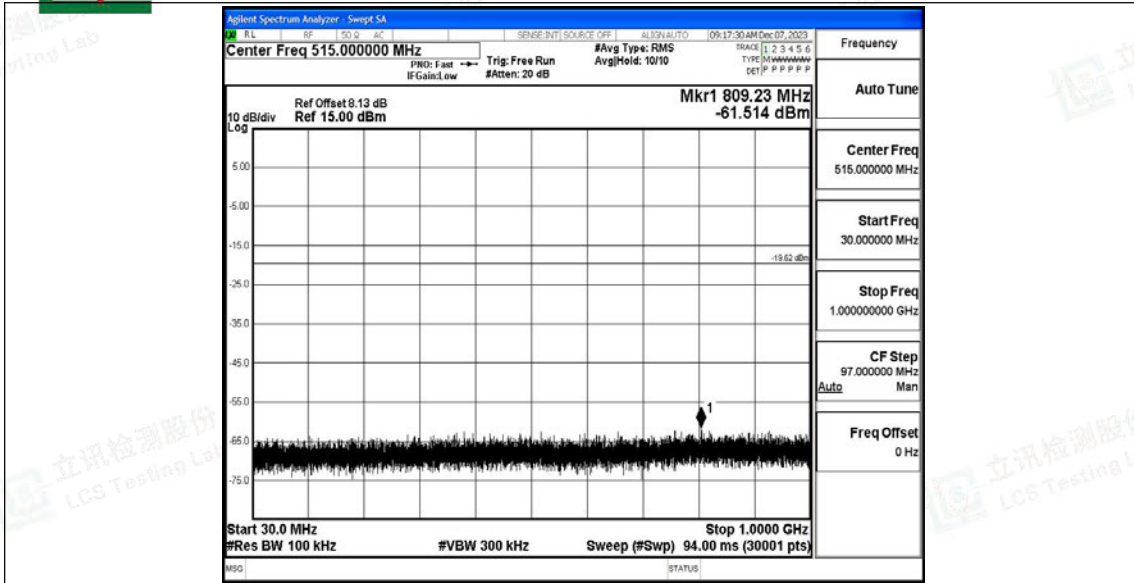


BLE_2M_Ant1_2402_1000~26500

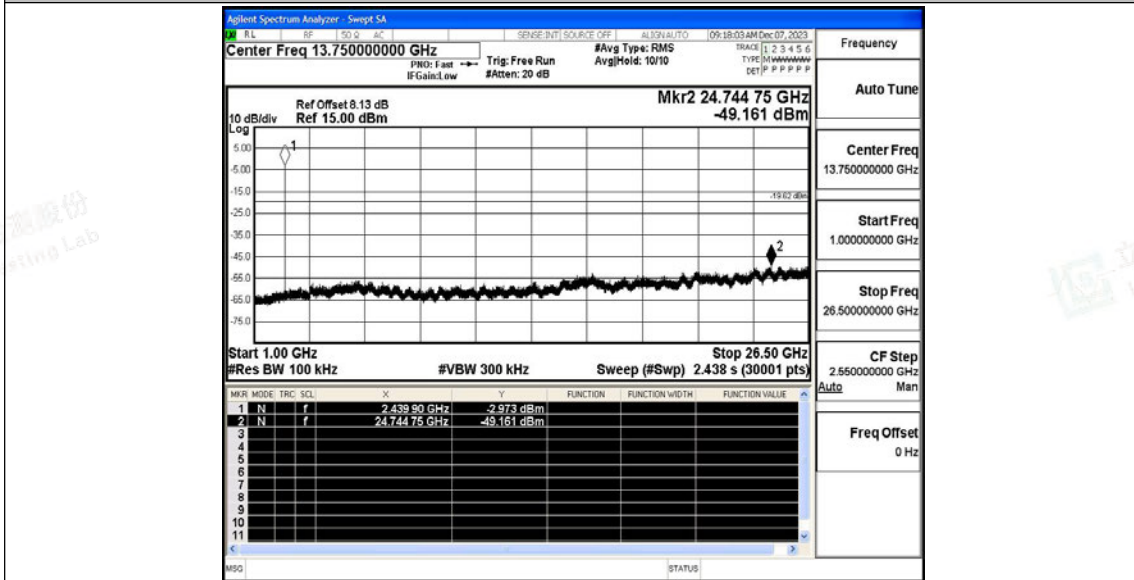


BLE_2M_Ant1_2440_30~1000



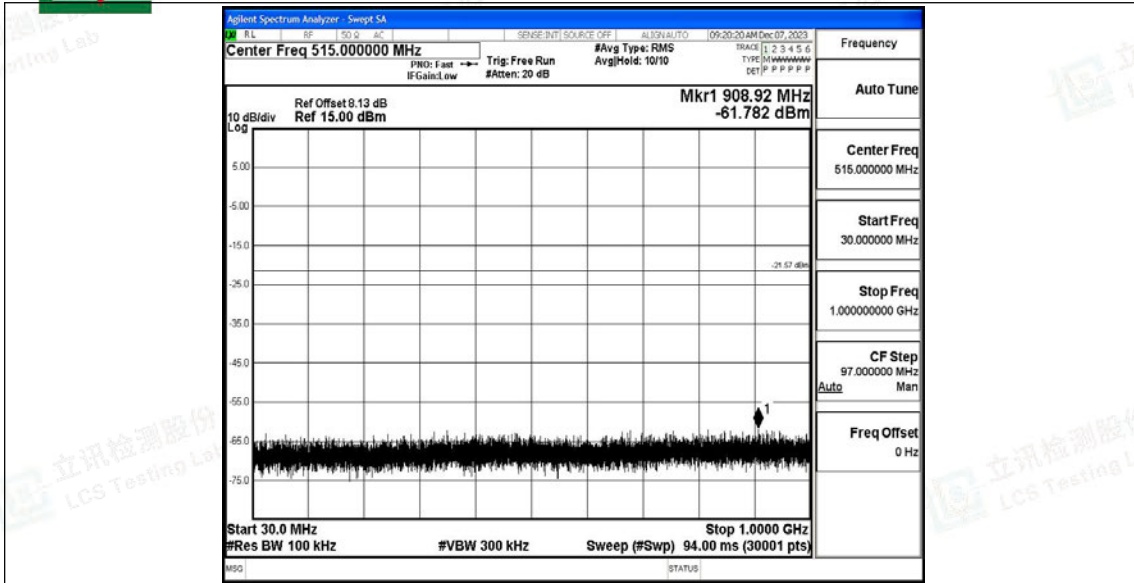


BLE_2M_Ant1_2440_1000~26500

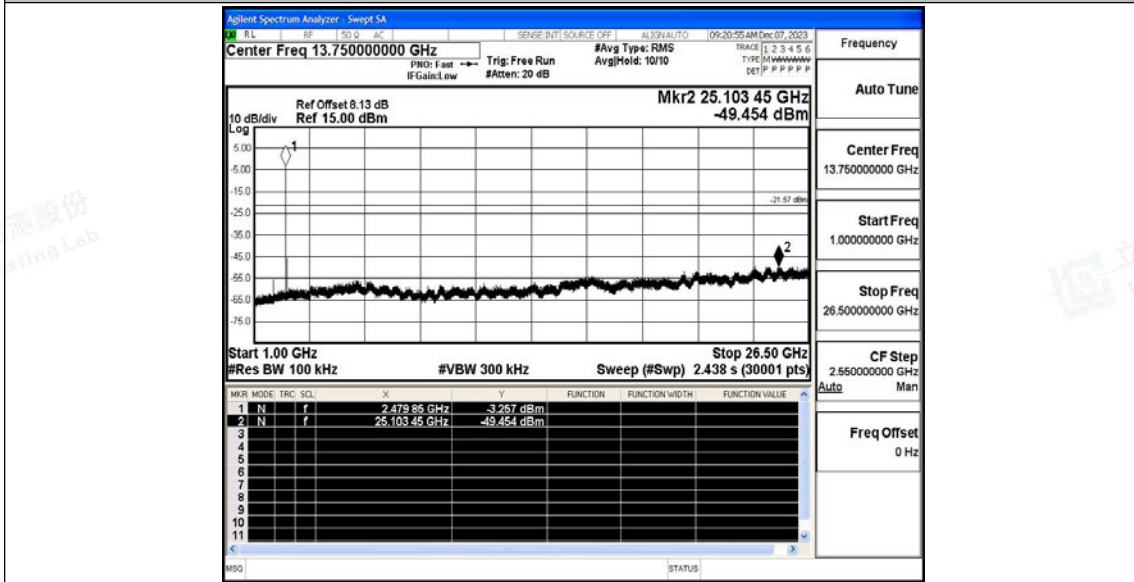


BLE_2M_Ant1_2480_30~1000





BLE_2M_Ant1_2480_1000~26500





B.6 Duty Cycle

Test Result

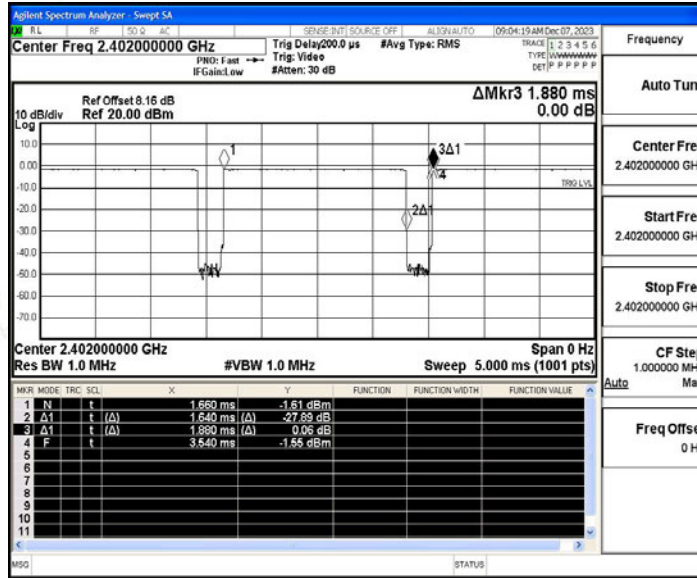
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE_1M	Ant1	2402	1.64	1.88	0.8723	87.23	0.59	0.61	---	---
		2440	1.64	1.88	0.8723	87.23	0.59	0.61	---	---
		2480	1.64	1.88	0.8723	87.23	0.59	0.61	---	---
BLE_2M	Ant1	2402	0.82	1.25	0.6560	65.60	1.83	1.22	---	---
		2440	0.82	1.25	0.6560	65.60	1.83	1.22	---	---
		2480	0.82	1.25	0.6560	65.60	1.83	1.22	---	---



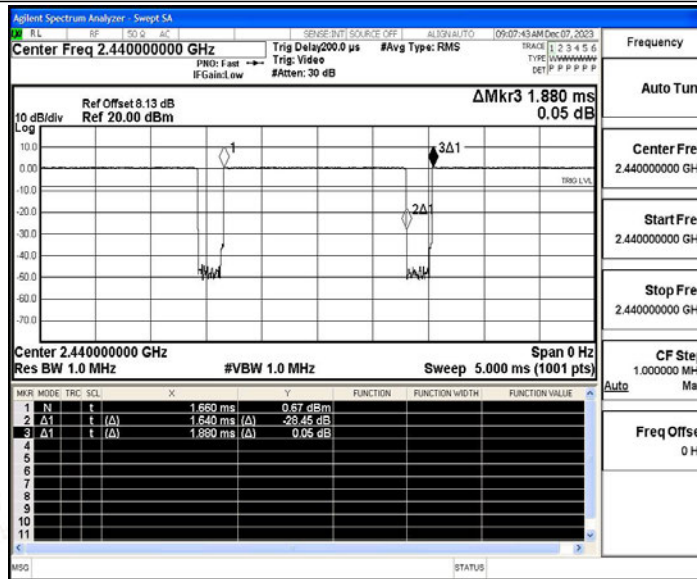


Test Graphs

BLE_1M_Ant1_2402

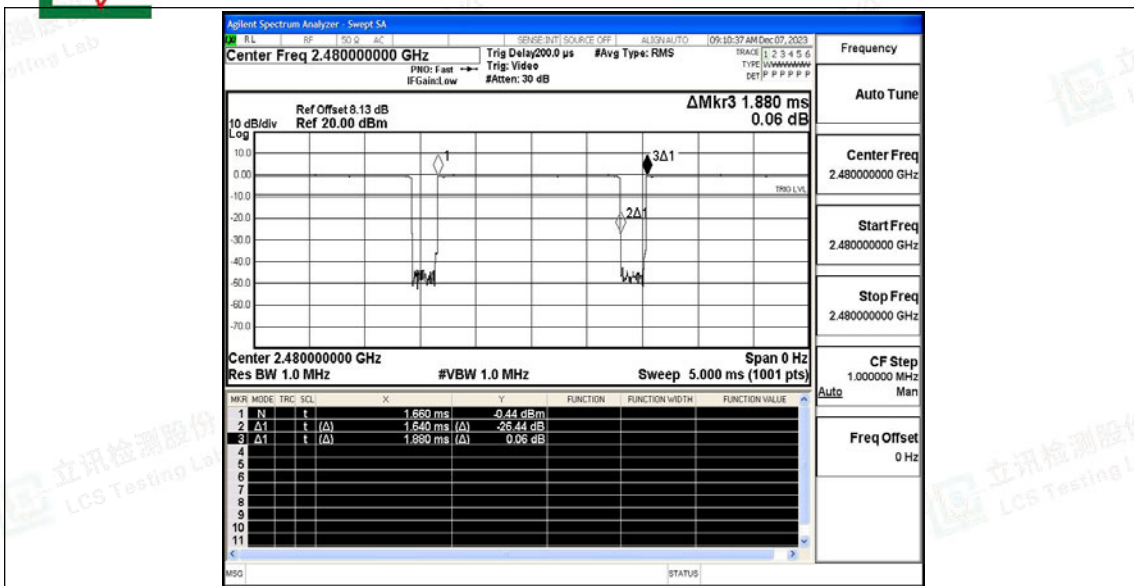


BLE_1M_Ant1_2440

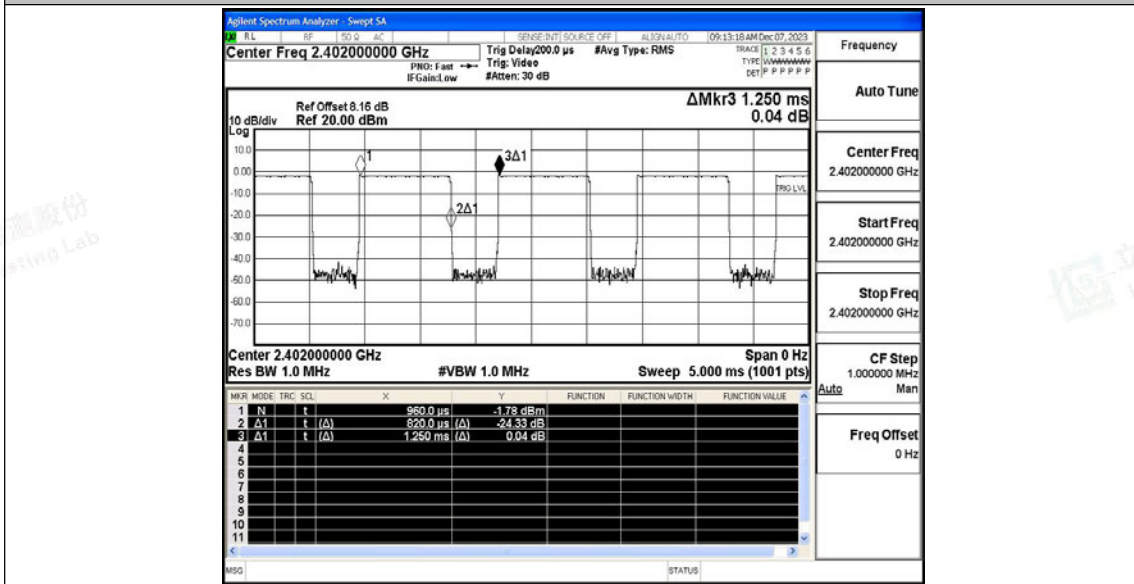


BLE_1M_Ant1_2480



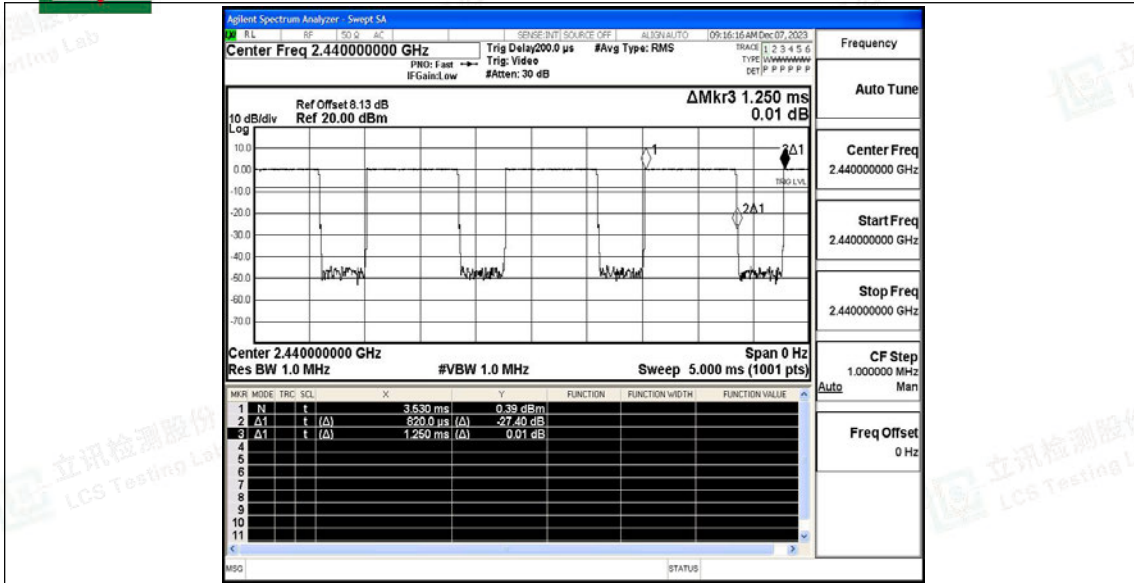


BLE_2M_Ant1_2402

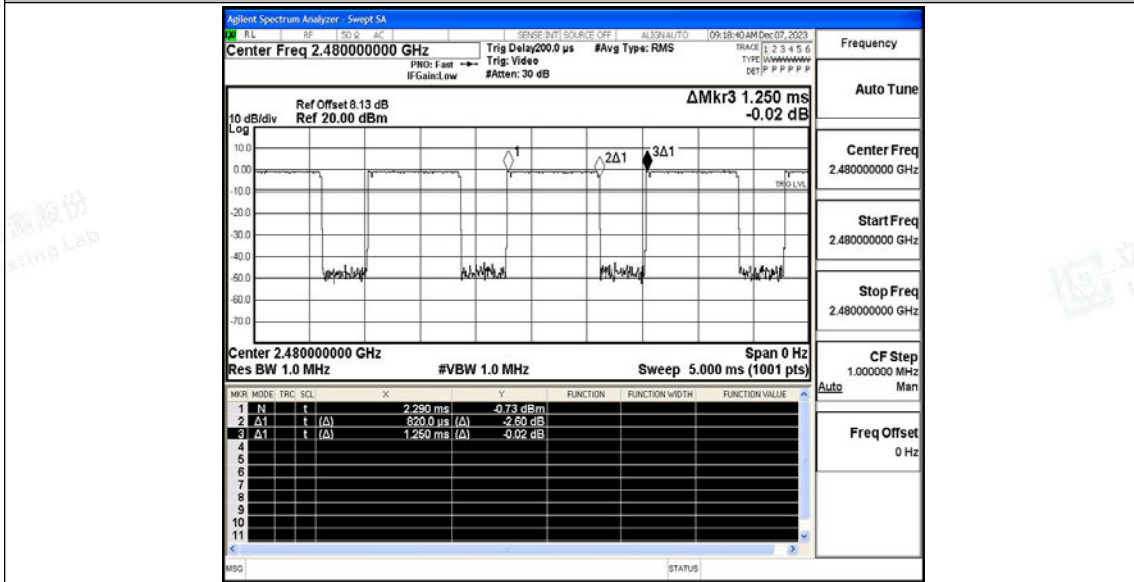


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480





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	-49.09	≤-41.20	46.11	≤54	PASS
				AV	2382.635	-48.62	≤-41.20	46.58	≤54	PASS
				AV	2390.000	-48.81	≤-41.20	46.39	≤54	PASS
				Peak	2310.000	-41.92	≤-21.20	53.28	≤74	PASS
				Peak	2315.960	-38.94	≤-21.20	56.26	≤74	PASS
				Peak	2390.000	-40.96	≤-21.20	54.24	≤74	PASS
		High	2480	AV	2483.500	-47.89	≤-41.20	47.31	≤54	PASS
				AV	2483.520	-47.89	≤-41.20	47.31	≤54	PASS
				AV	2500.000	-48.59	≤-41.20	46.61	≤54	PASS
				Peak	2483.500	-41.39	≤-21.20	53.81	≤74	PASS
				Peak	2493.520	-39.25	≤-21.20	55.95	≤74	PASS
				Peak	2500.000	-42.83	≤-21.20	52.37	≤74	PASS
BLE_2M	Ant1	Low	2402	AV	2310.000	-48.83	≤-41.20	46.37	≤54	PASS
				AV	2382.215	-48.19	≤-41.20	47.01	≤54	PASS
				AV	2390.000	-48.57	≤-41.20	46.63	≤54	PASS
				Peak	2310.000	-41.63	≤-21.20	53.57	≤74	PASS
				Peak	2378.015	-38.89	≤-21.20	56.31	≤74	PASS
				Peak	2390.000	-40.39	≤-21.20	54.81	≤74	PASS
		High	2480	AV	2483.500	-47.05	≤-41.20	48.15	≤54	PASS
				AV	2483.520	-47.05	≤-41.20	48.15	≤54	PASS
				AV	2500.000	-48.39	≤-41.20	46.81	≤54	PASS
				Peak	2483.500	-40.99	≤-21.20	54.21	≤74	PASS
				Peak	2484.000	-39.53	≤-21.20	55.67	≤74	PASS
				Peak	2500.000	-40.78	≤-21.20	54.42	≤74	PASS

Note:

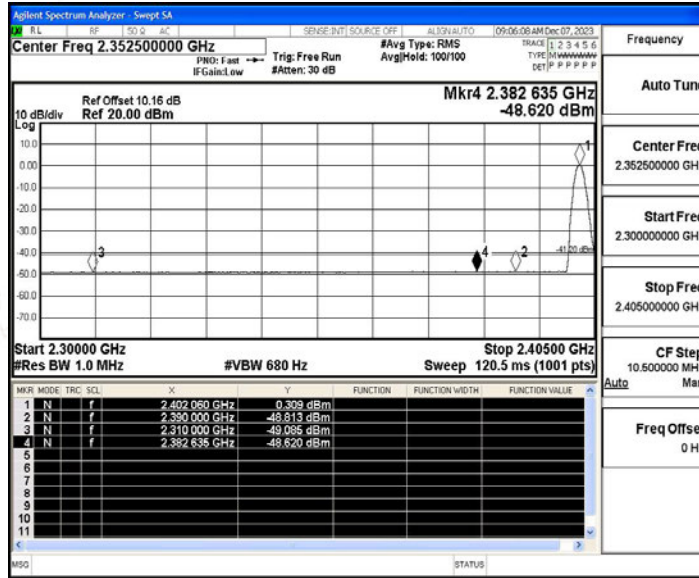
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



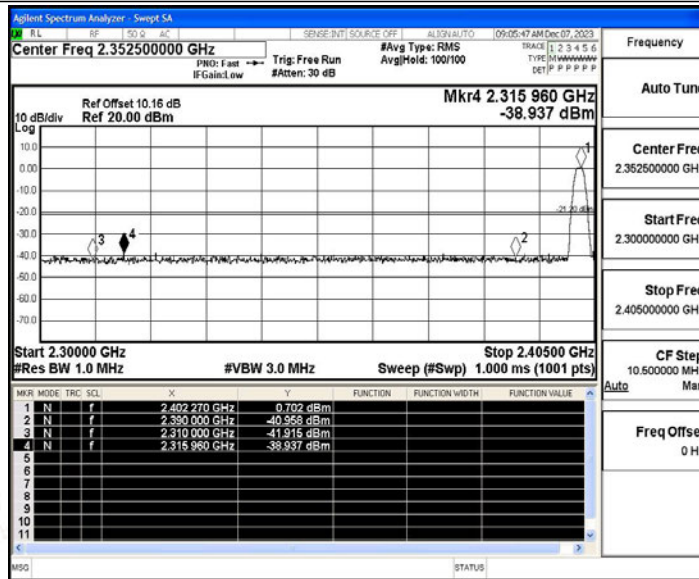


Test Graphs

BLE_1M_Ant1_Low_2402_AV

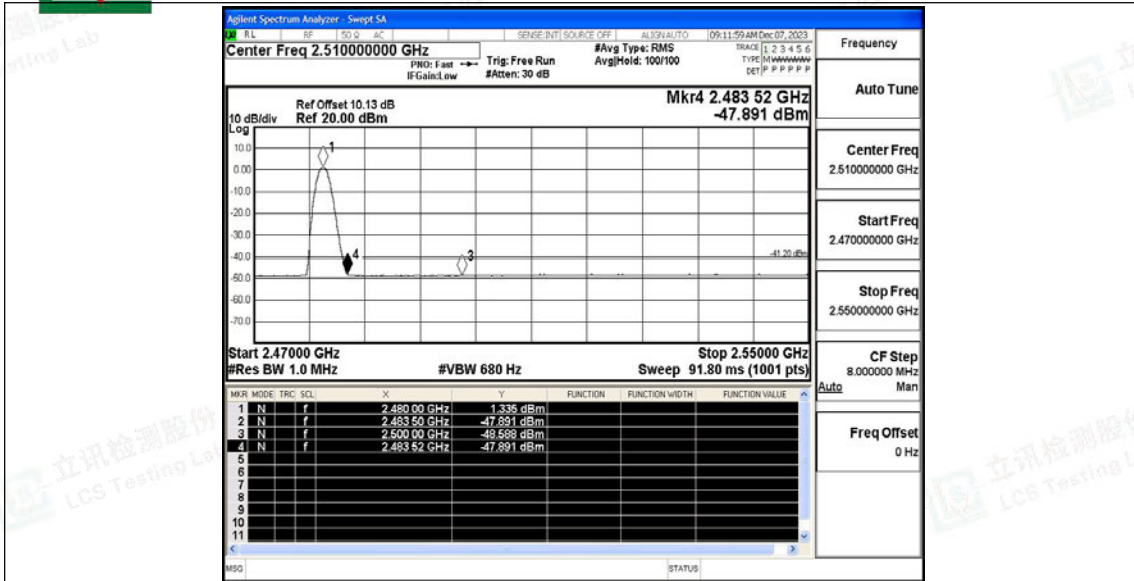


BLE_1M_Ant1_Low_2402_Peak

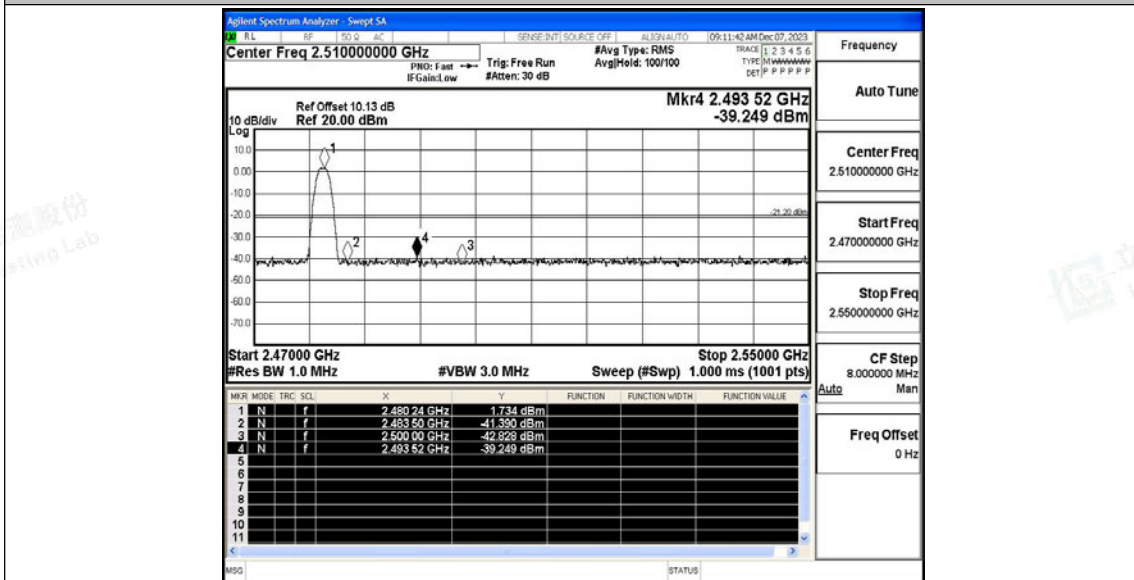


BLE_1M_Ant1_High_2480_AV



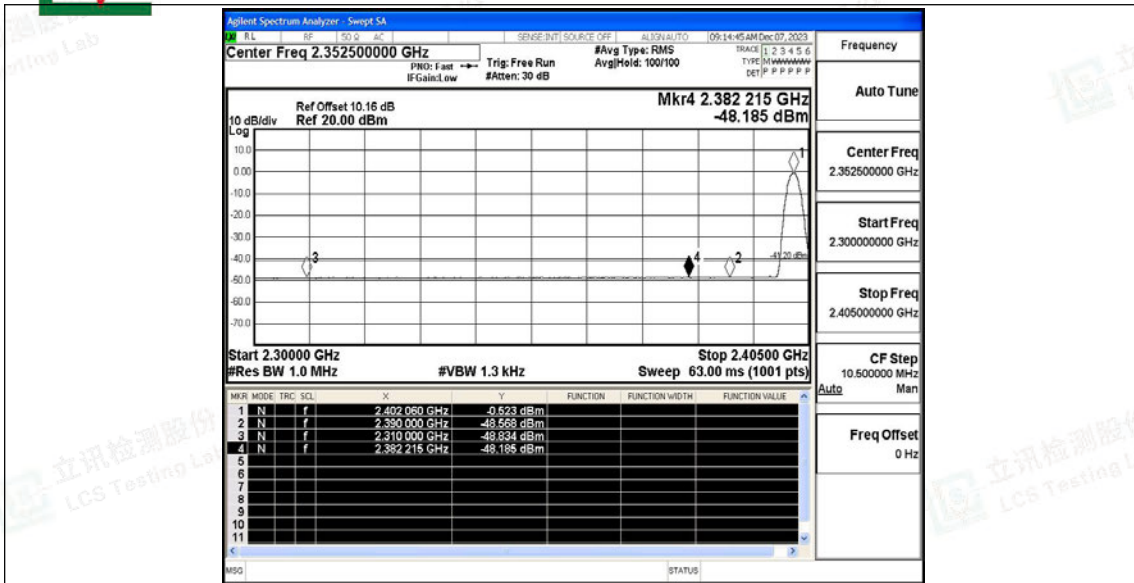


BLE_1M_Ant1_High_2480_Peak

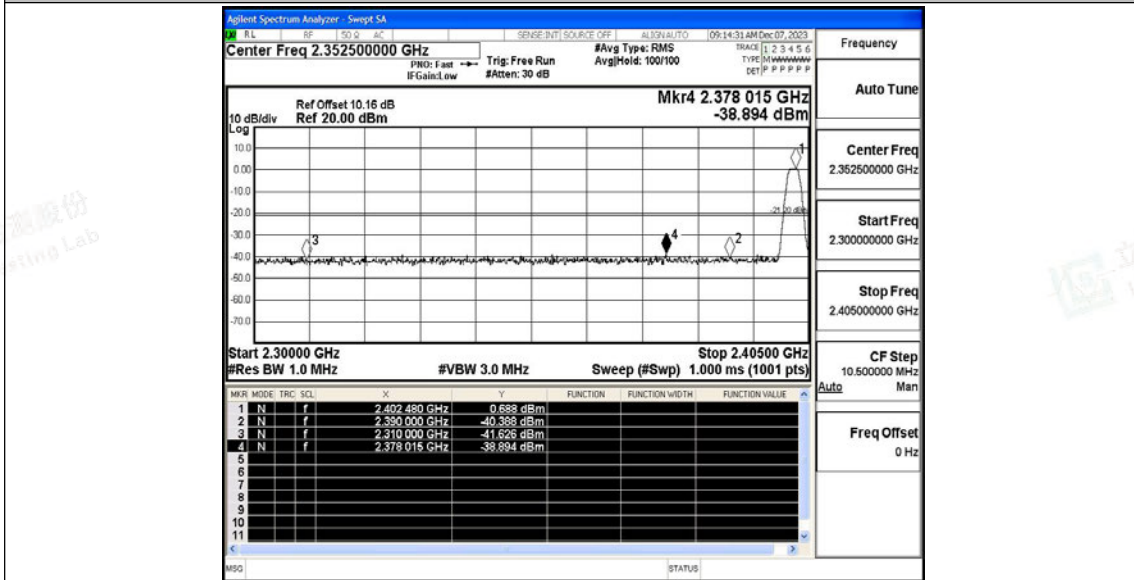


BLE_2M_Ant1_Low_2402_AV



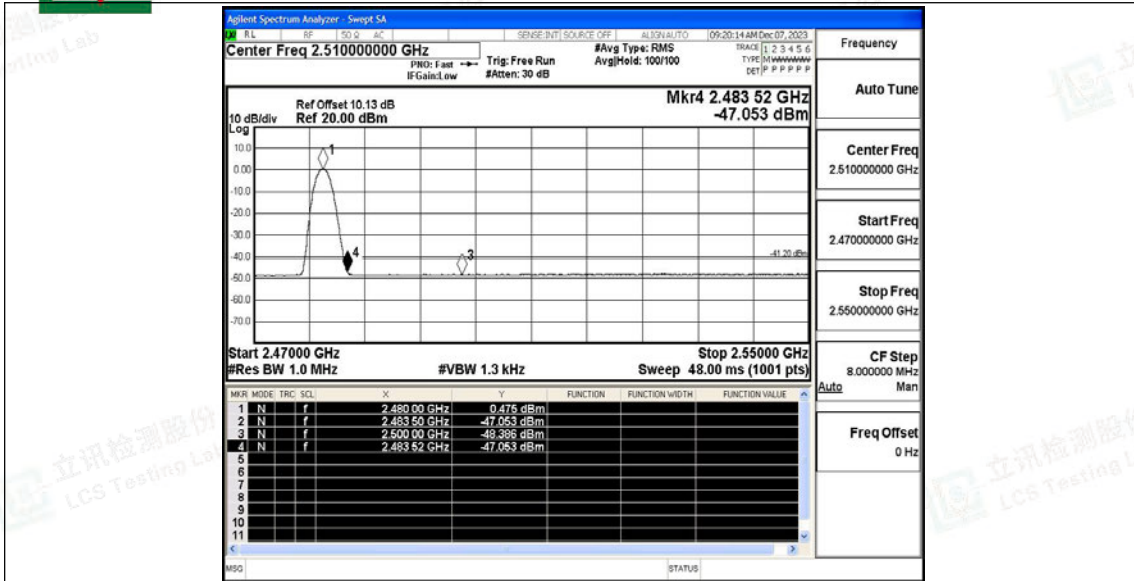


BLE_2M_Ant1_Low_2402_Peak



BLE_2M_Ant1_High_2480_AV





BLE_2M_Ant1_High_2480_Peak

