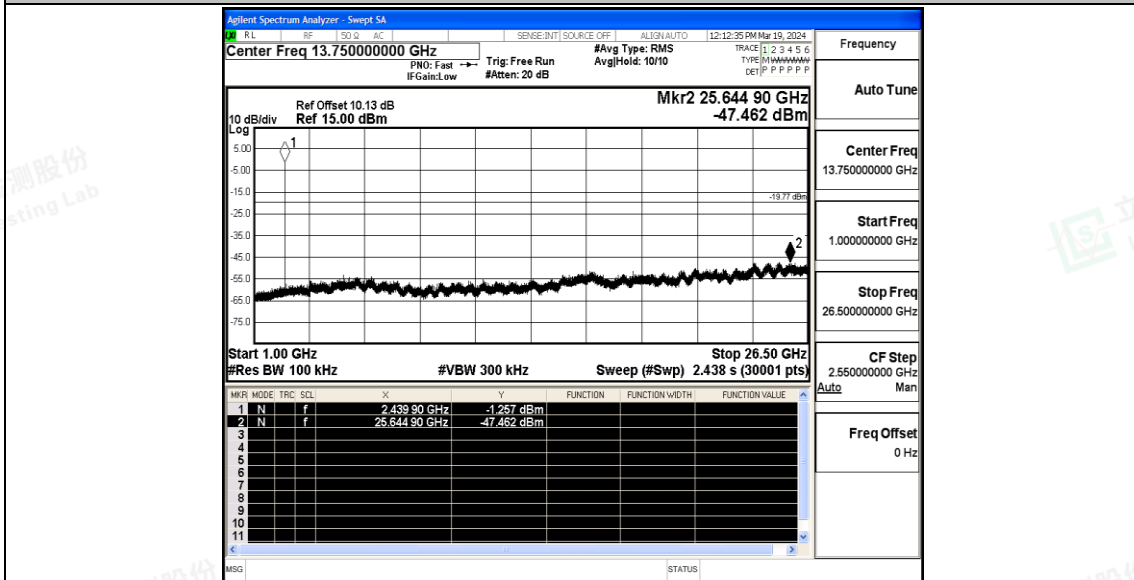


BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_30~1000

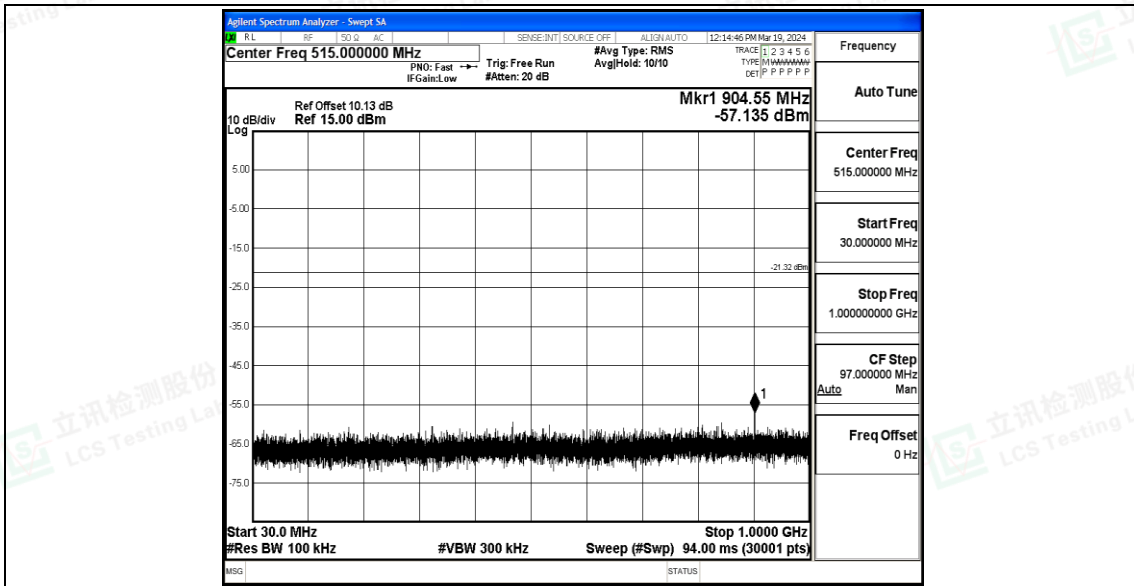


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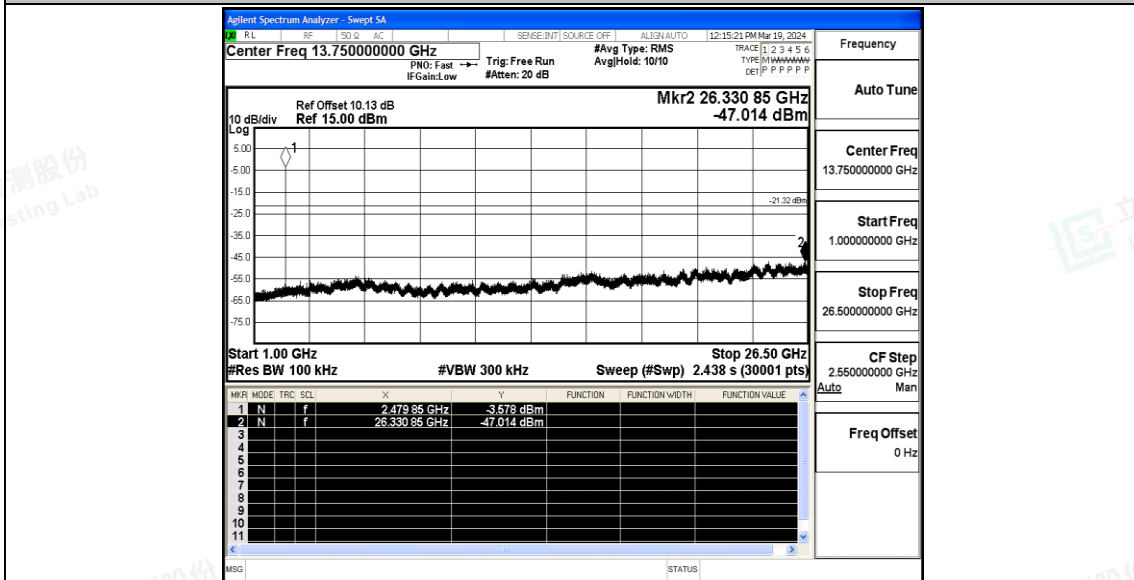
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE\_1M\_Ant1\_2480\_1000~26500



BLE\_2M\_Ant1\_2402\_30~1000

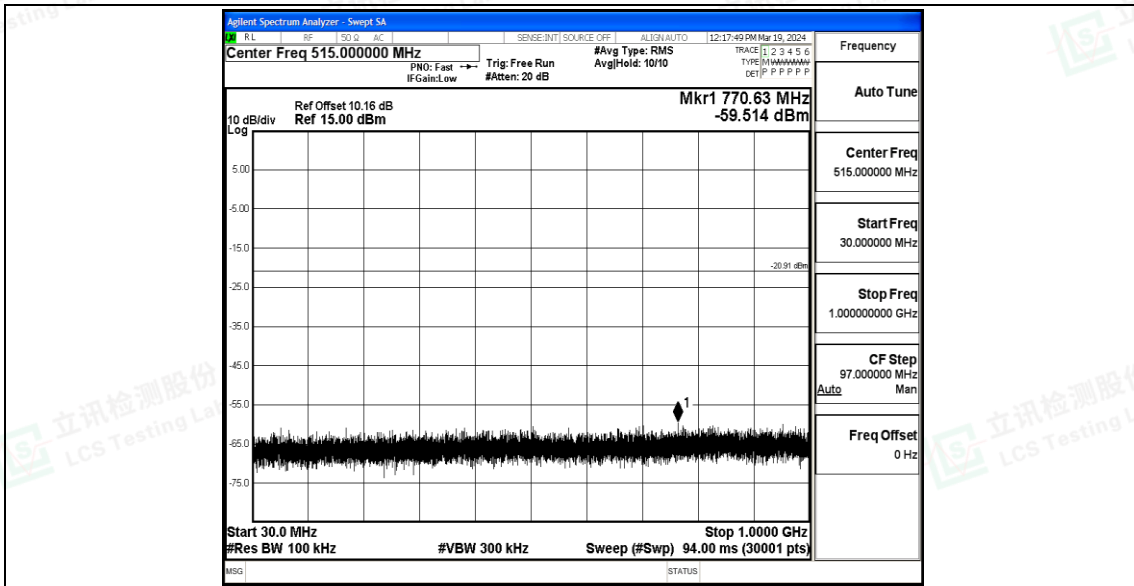


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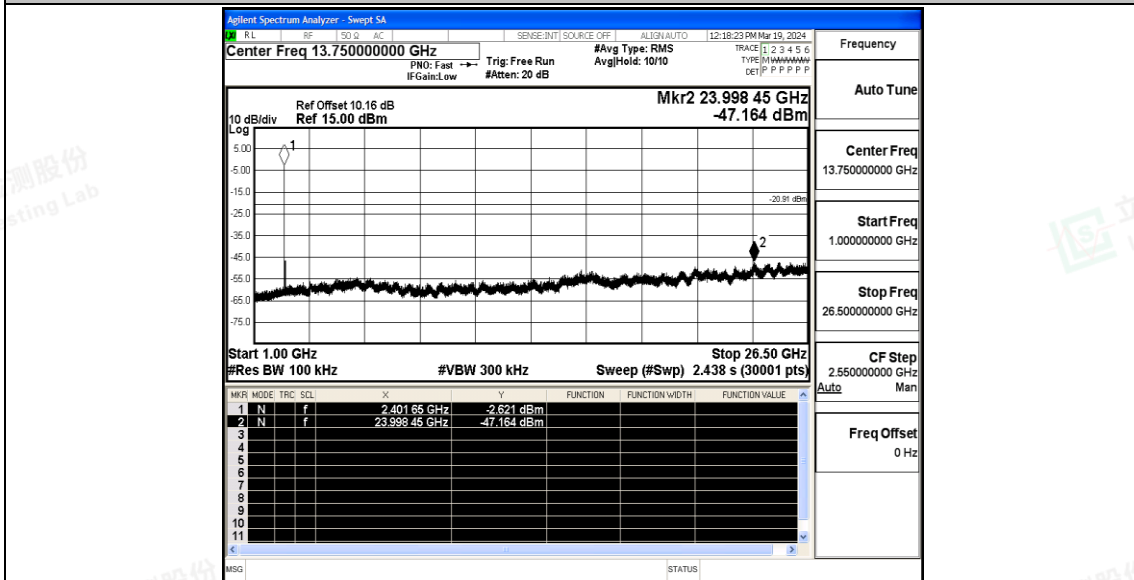
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE\_2M\_Ant1\_2402\_1000~26500



BLE\_2M\_Ant1\_2440\_30~1000

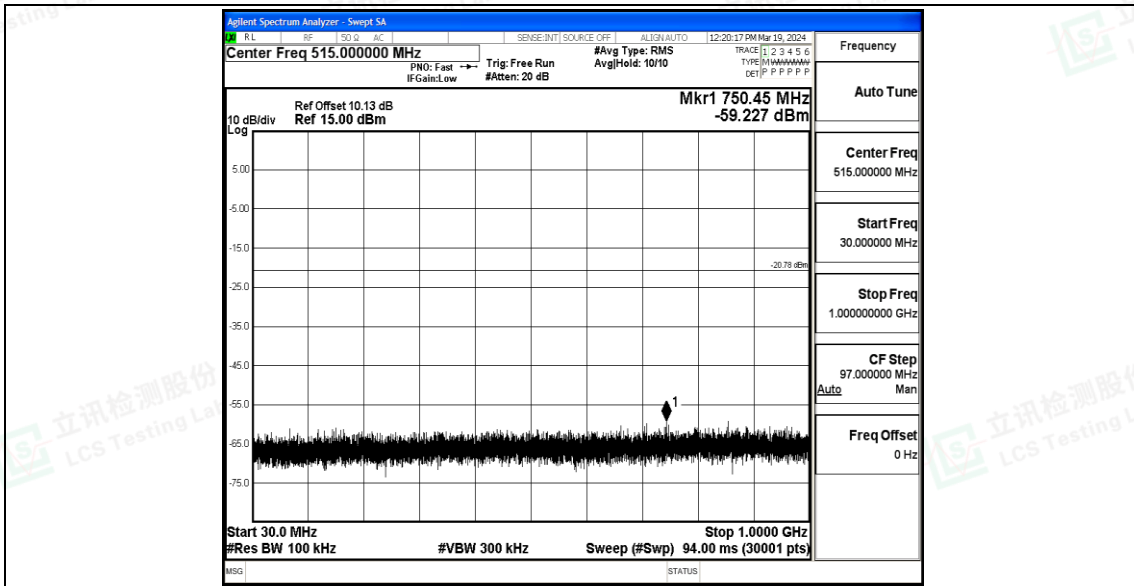


Shenzhen LCS Compliance Testing Laboratory Ltd.

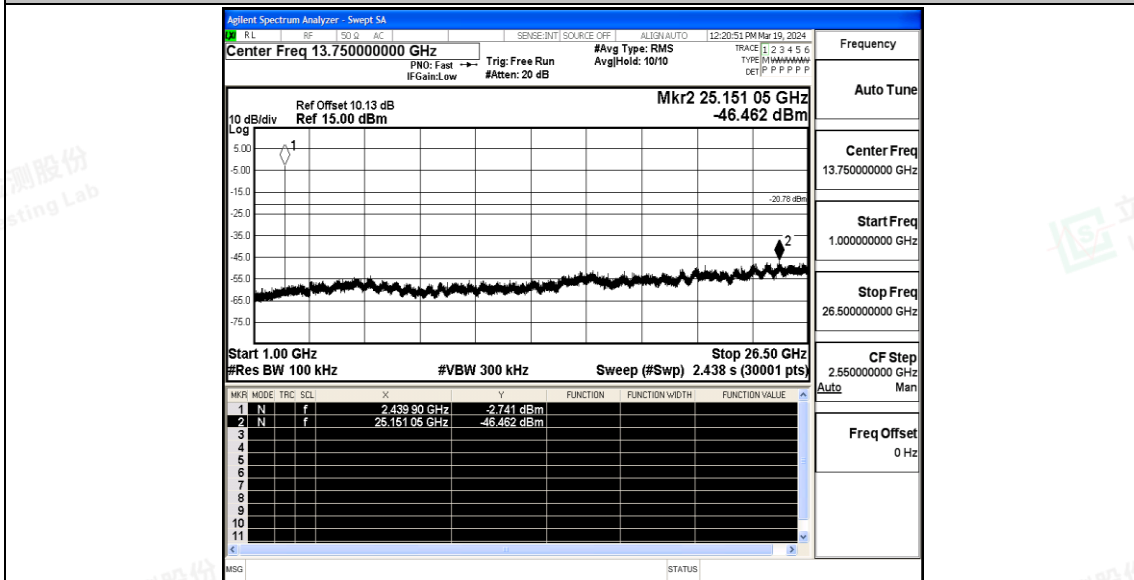
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE\_2M\_Ant1\_2440\_1000~26500



BLE\_2M\_Ant1\_2480\_30~1000

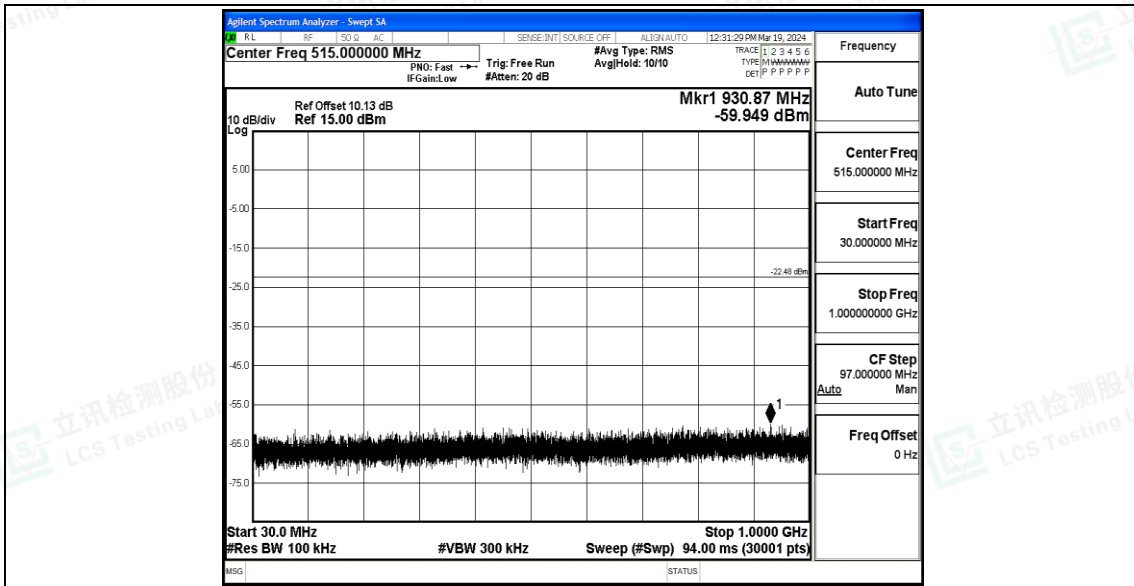


Shenzhen LCS Compliance Testing Laboratory Ltd.

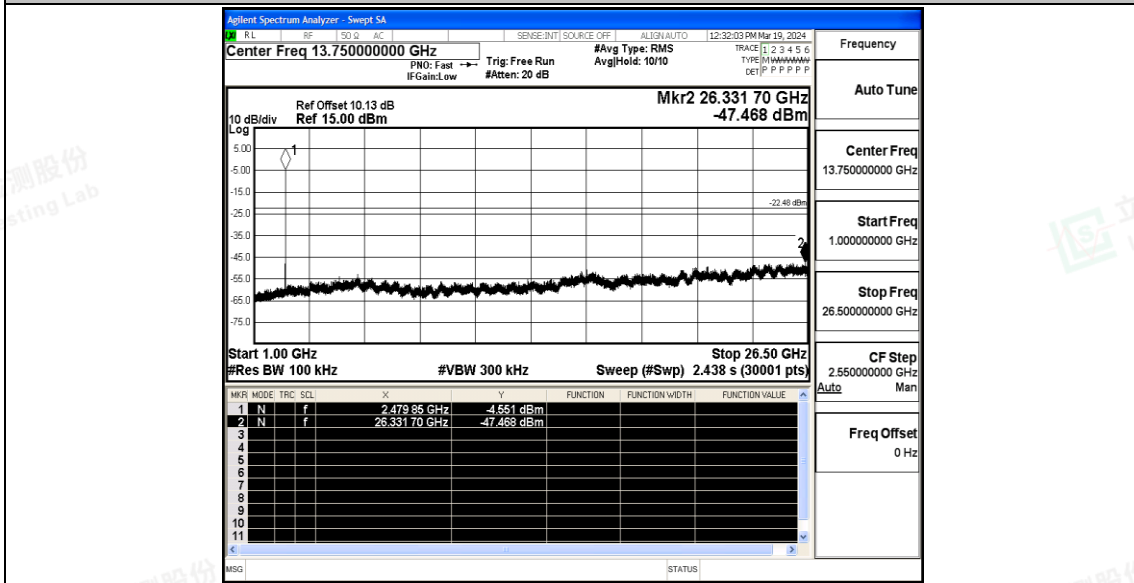
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE\_2M\_Ant1\_2480\_1000~26500



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## Reference level measurement

Left Ear:

### Test Result

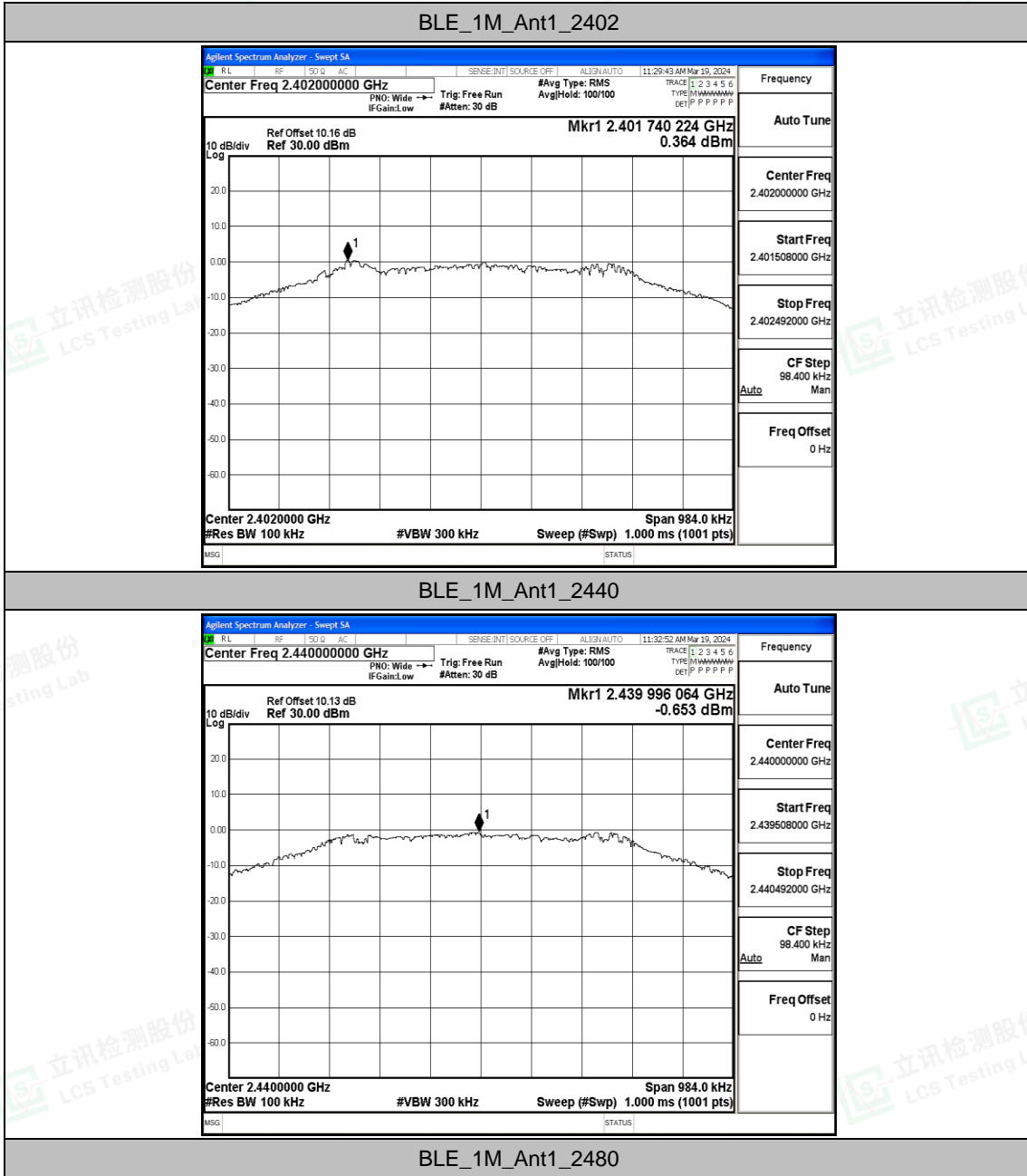
TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2401.74	0.36
		2440	2440.00	-0.65
		2480	2479.74	-1.53
BLE_2M	Ant1	2402	2401.50	0.25
		2440	2439.49	-0.10
		2480	2480.01	-2.18



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### Test Graphs

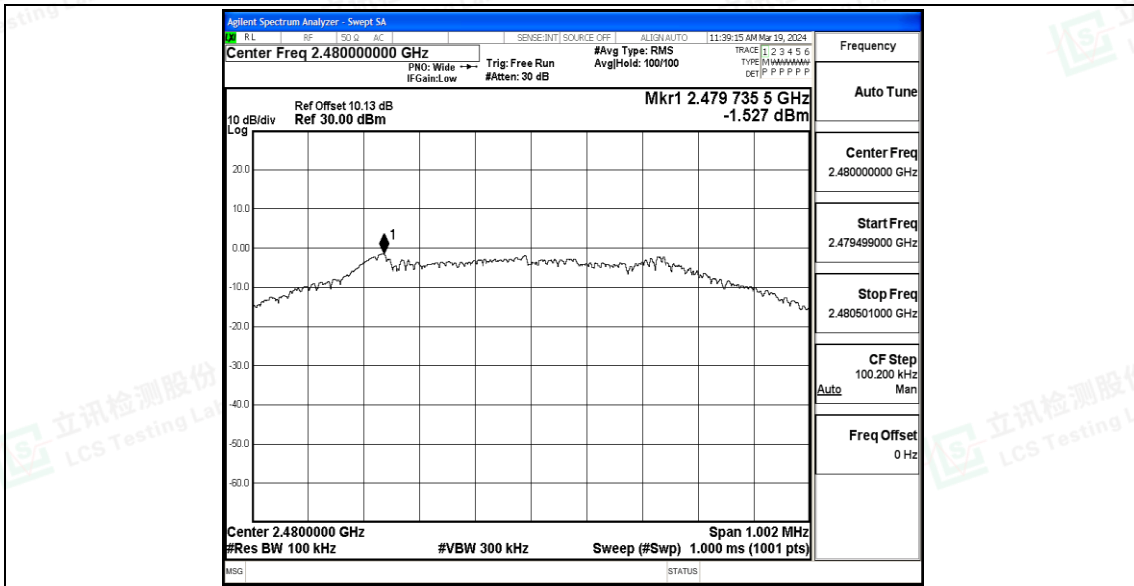


Shenzhen LCS Compliance Testing Laboratory Ltd.

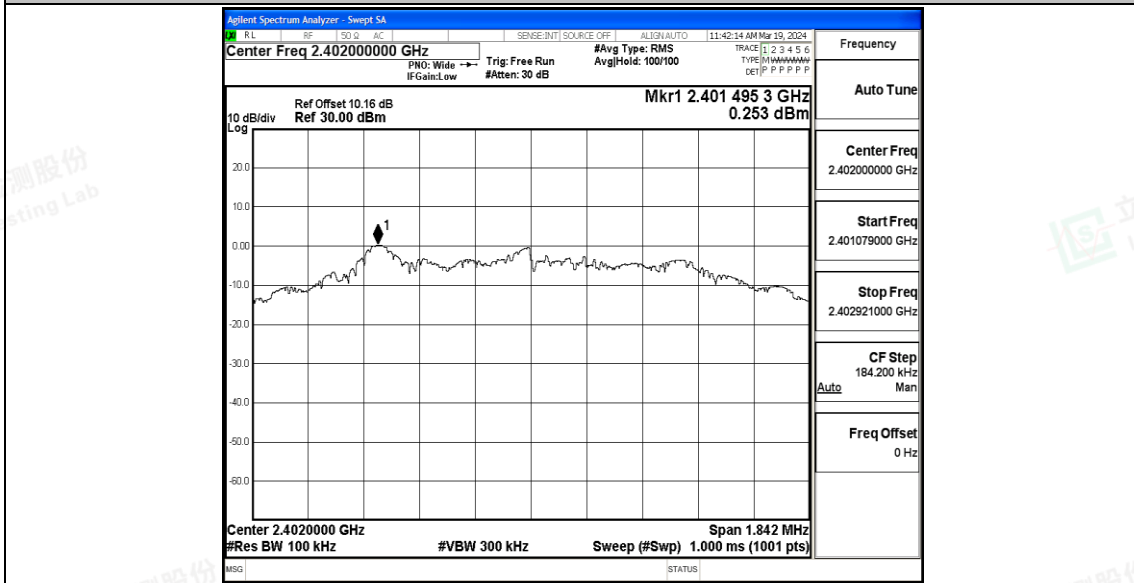
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440



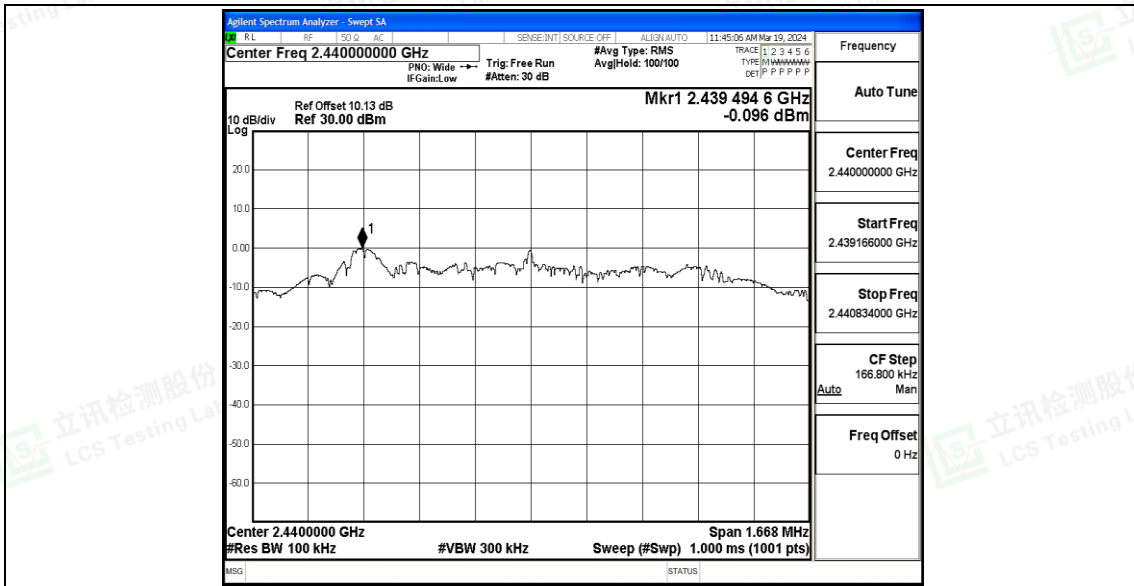
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

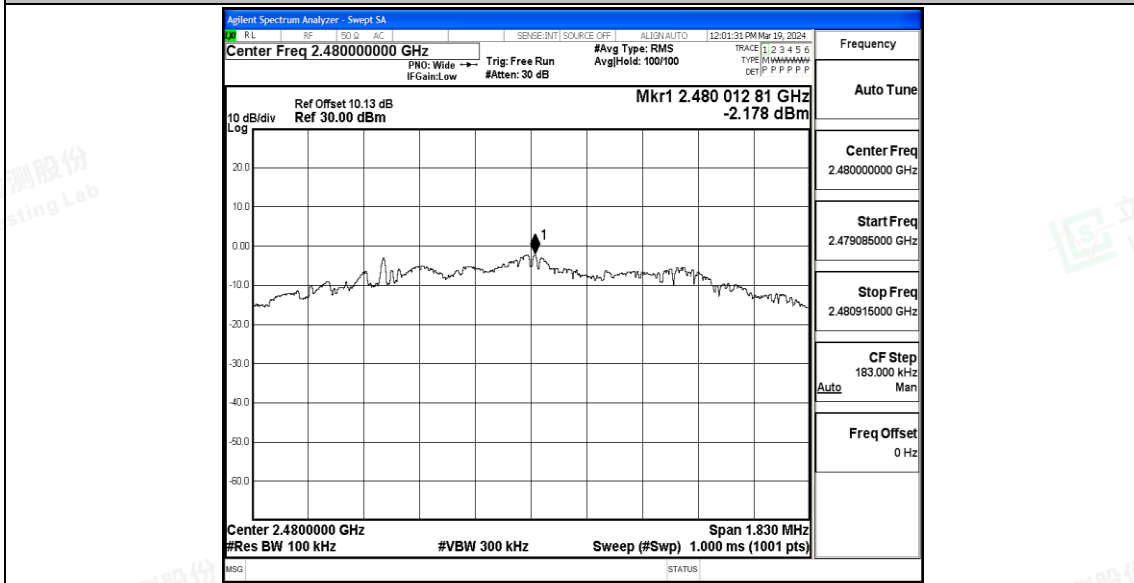
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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BLE\_2M\_Ant1\_2480



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## Reference level measurement

Right Ear:

### Test Result

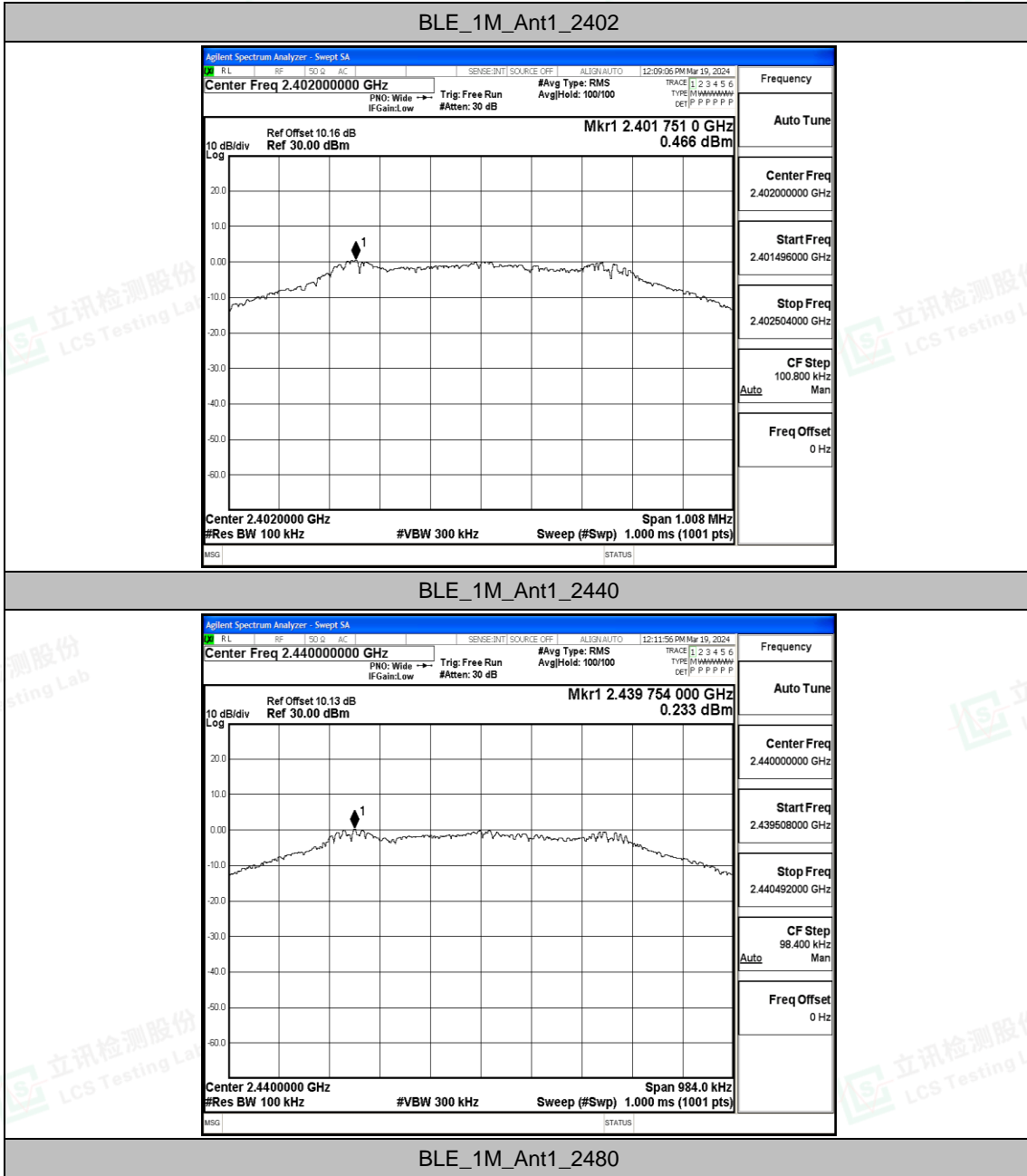
TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2401.75	0.47
		2440	2439.75	0.23
		2480	2479.75	-1.32
BLE_2M	Ant1	2402	2401.50	-0.91
		2440	2440.02	-0.78
		2480	2479.98	-2.48



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### Test Graphs

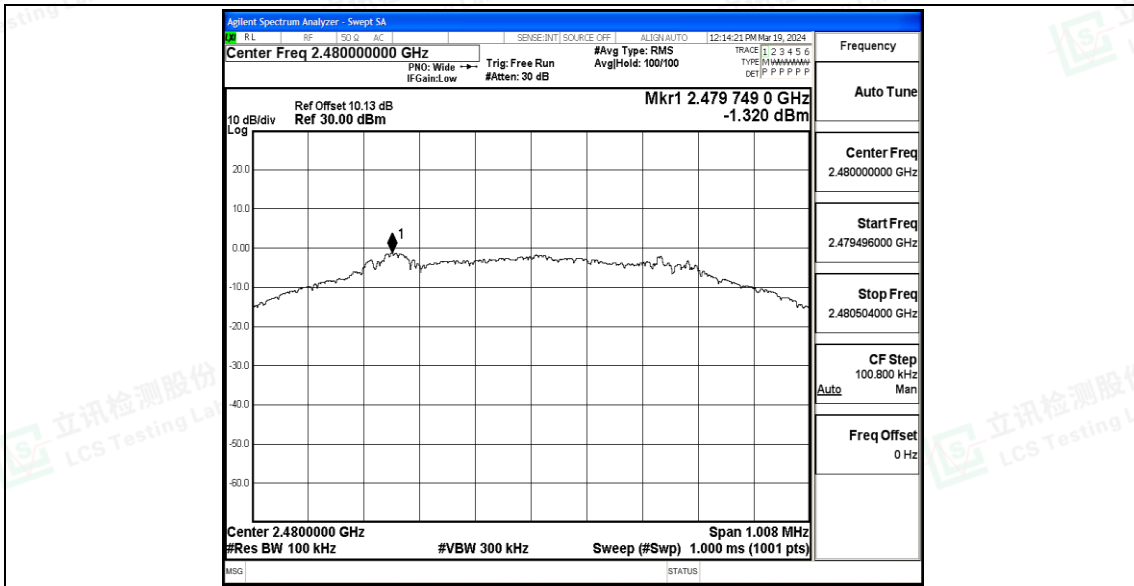


Shenzhen LCS Compliance Testing Laboratory Ltd.

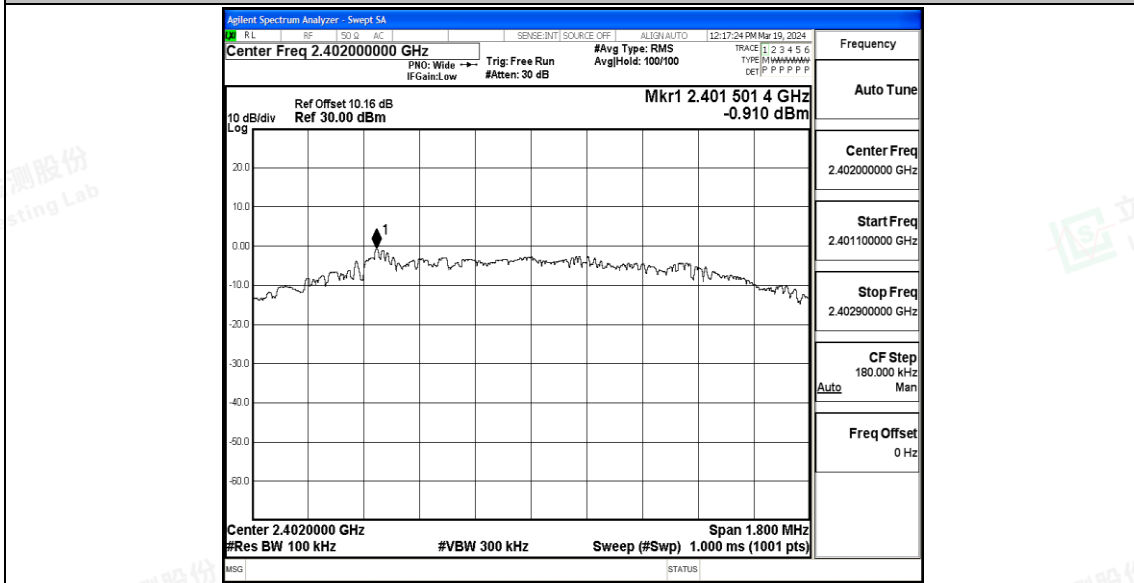
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

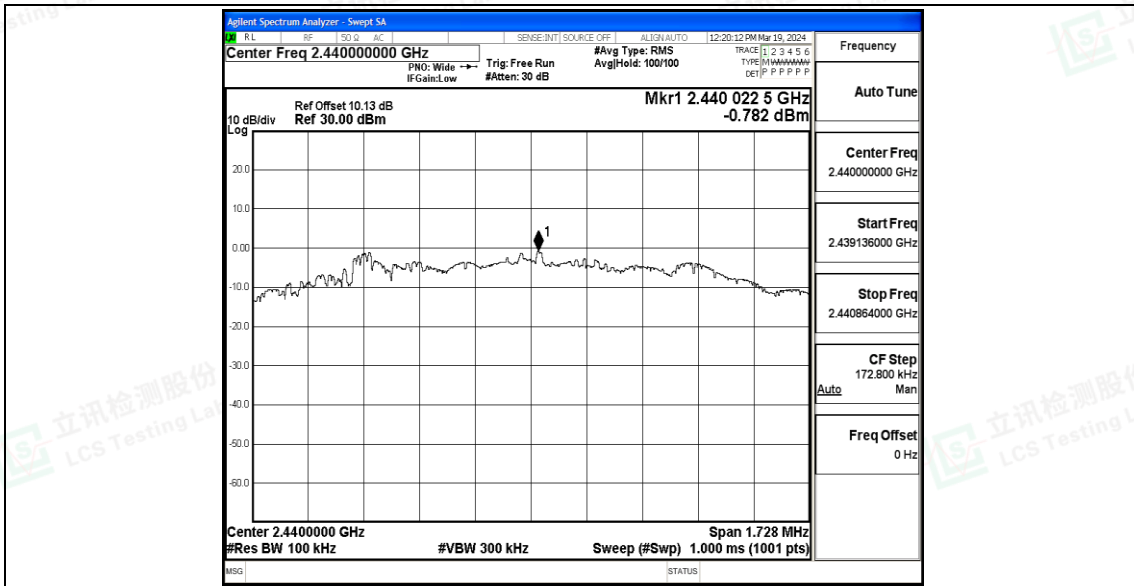


Shenzhen LCS Compliance Testing Laboratory Ltd.

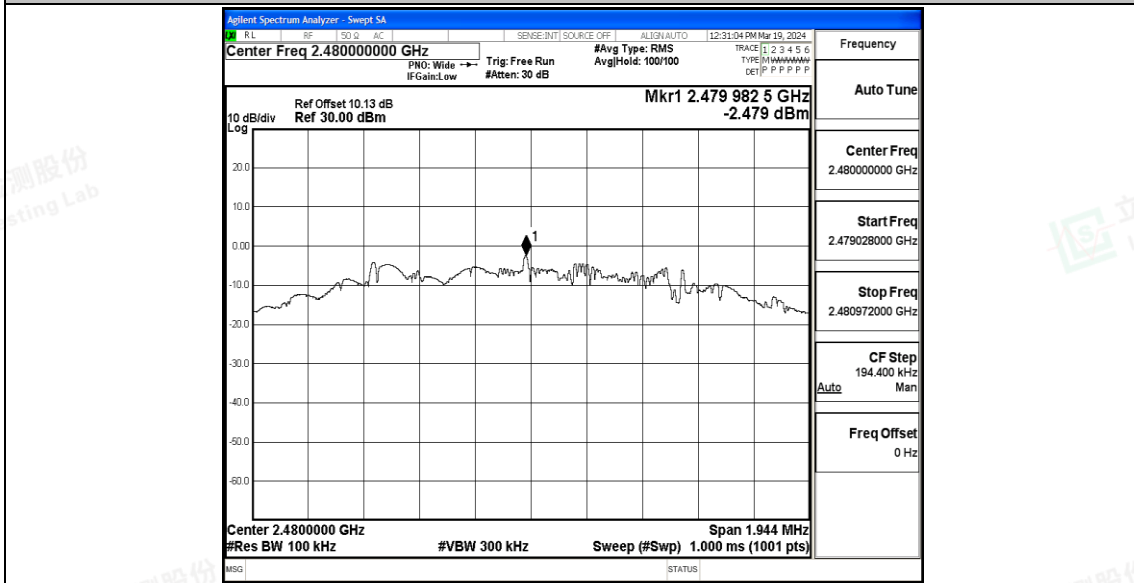
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE\_2M\_Ant1\_2480



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### B.6 Duty Cycle

Left Ear:

#### Test Result

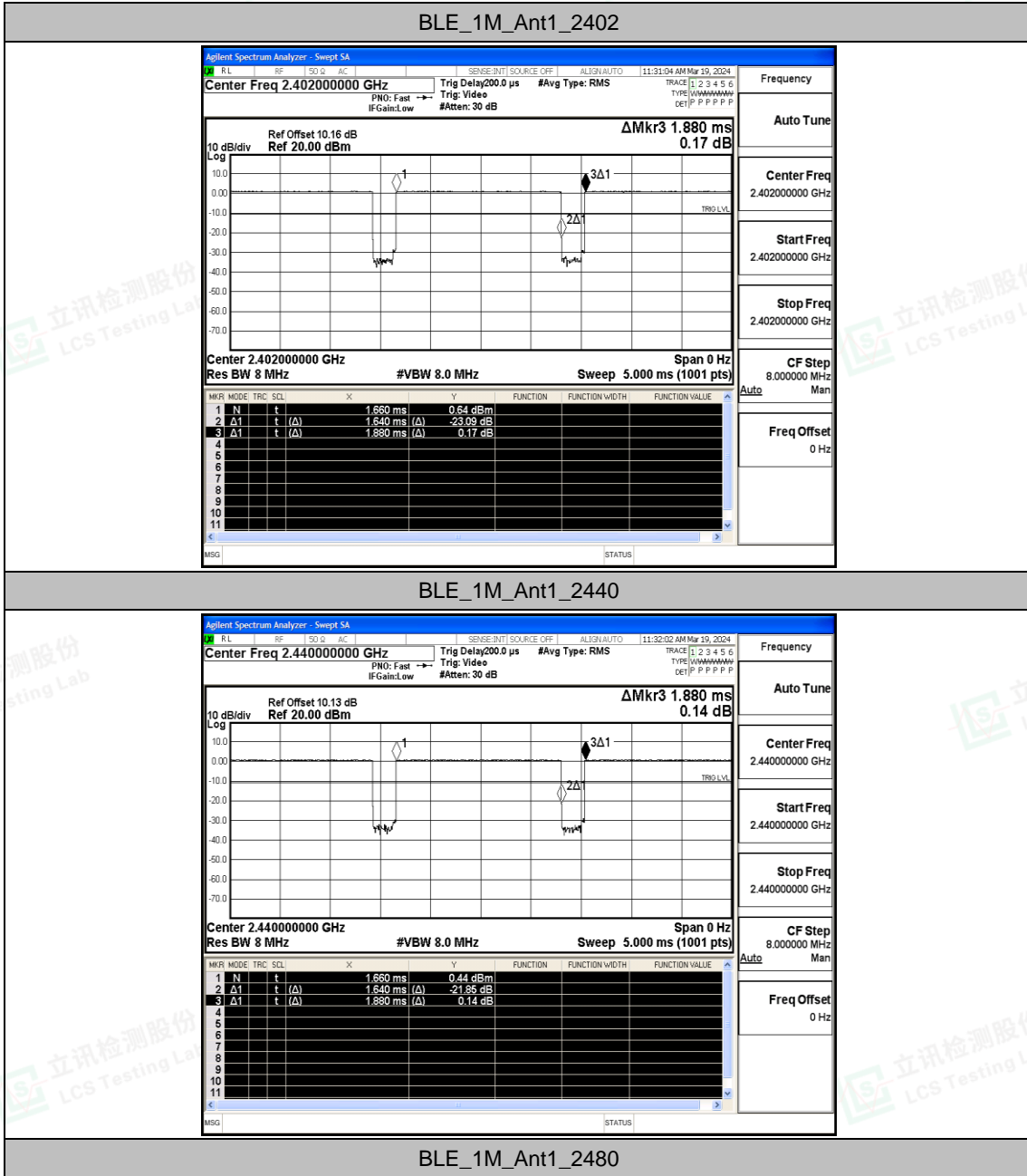
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[dB]
BLE_1M	Ant1	2402	1.64	1.88	87.23	0.59	0.61
		2440	1.64	1.88	87.23	0.59	0.61
		2480	1.65	1.88	87.77	0.57	0.61
BLE_2M	Ant1	2402	0.82	1.25	65.60	1.83	1.22
		2440	0.82	1.25	65.60	1.83	1.22
		2480	0.82	1.25	65.60	1.83	1.22



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### Test Graphs

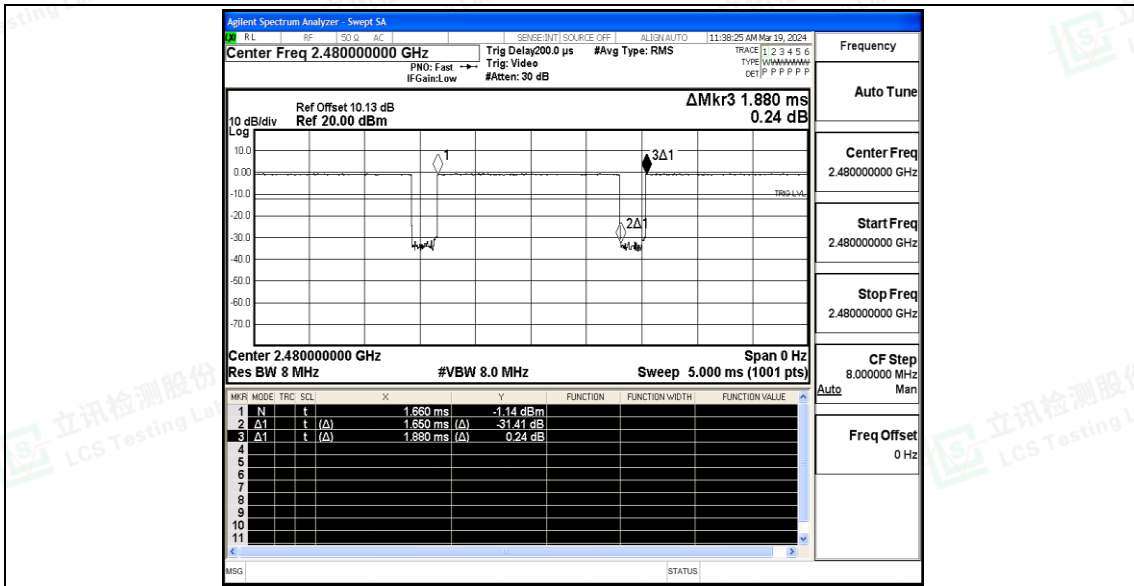


Shenzhen LCS Compliance Testing Laboratory Ltd.

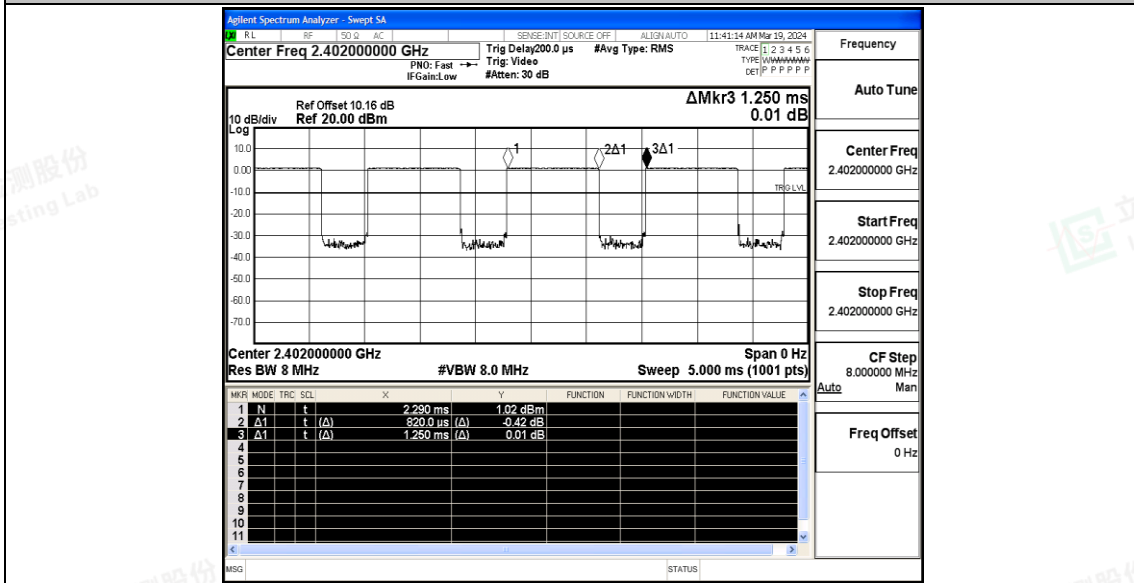
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440



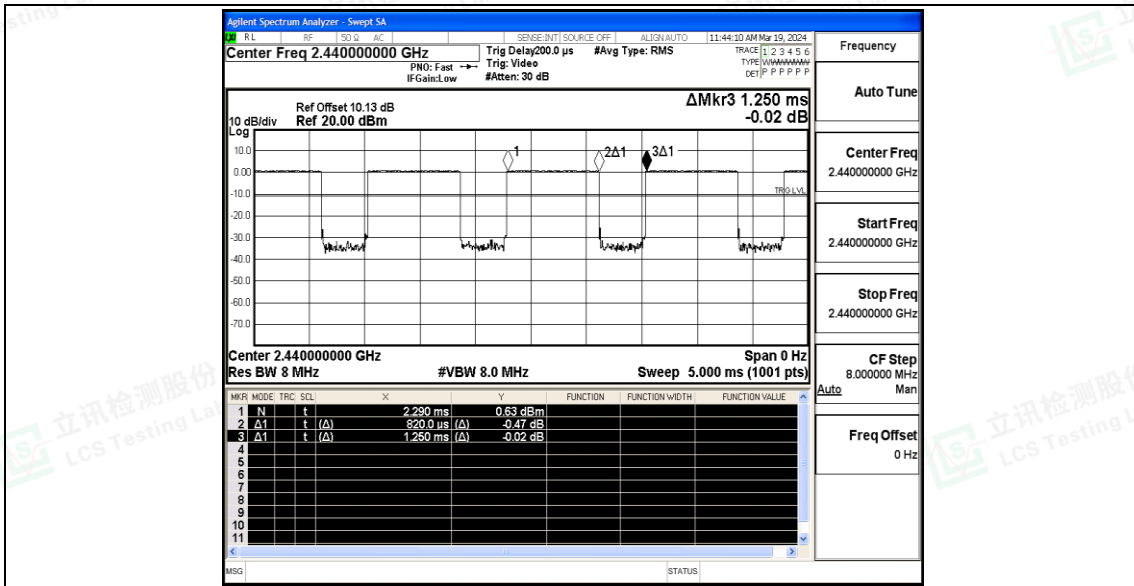
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

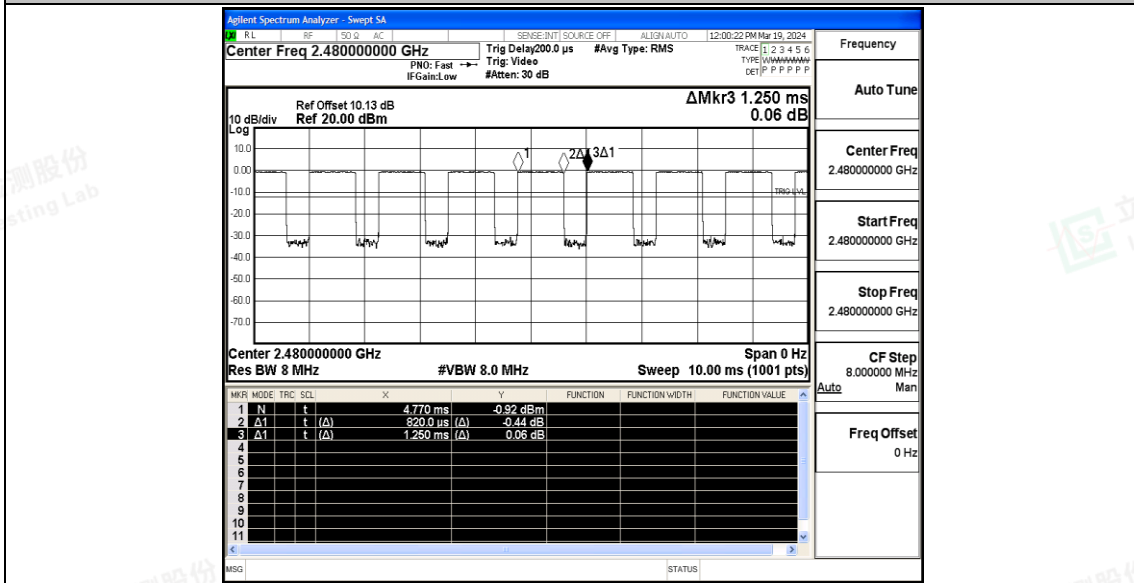
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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BLE\_2M\_Ant1\_2480



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Right Ear:

Test Result

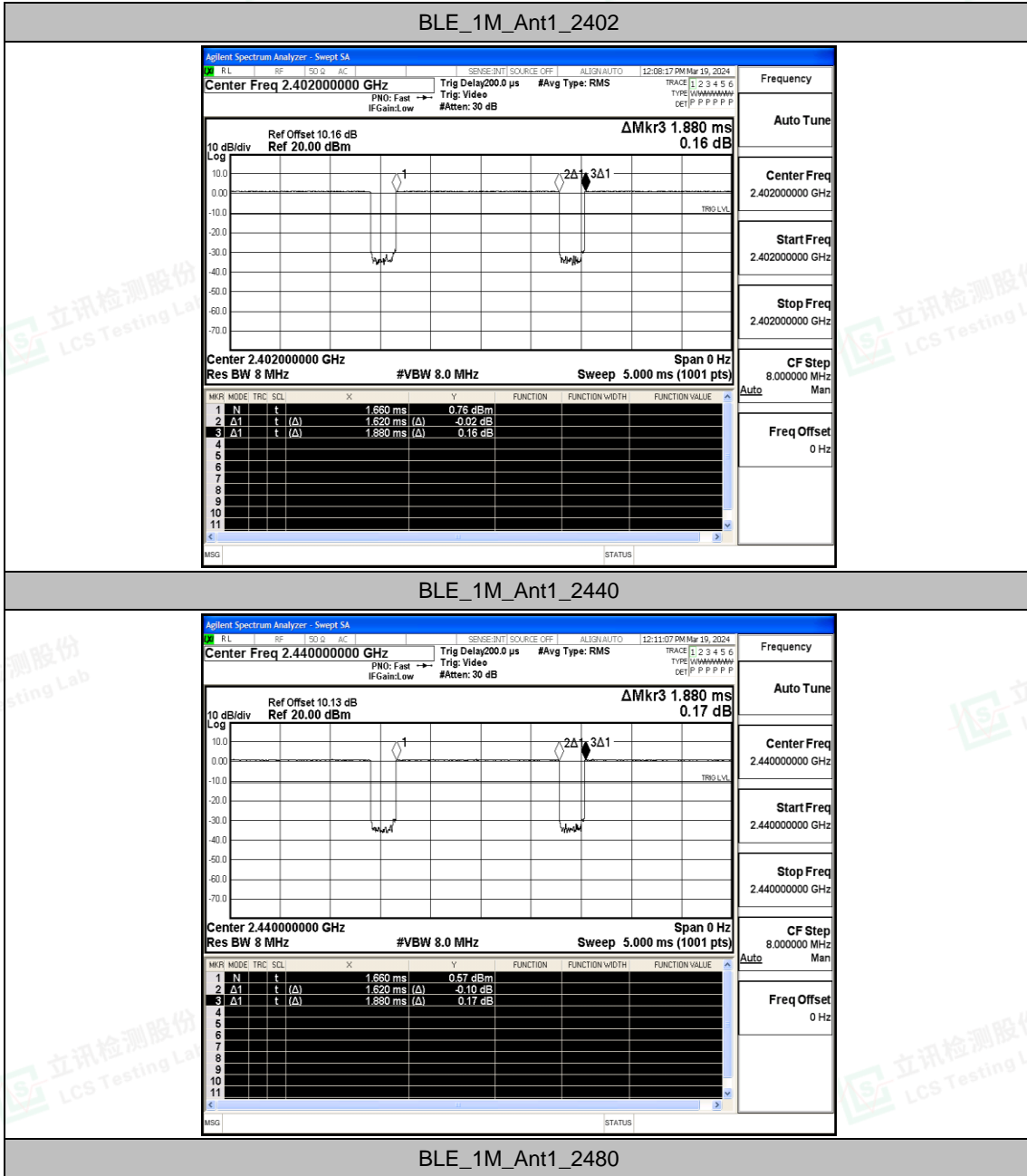
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[dB]
BLE_1M	Ant1	2402	1.62	1.88	86.17	0.65	0.62
		2440	1.62	1.88	86.17	0.65	0.62
		2480	1.62	1.88	86.17	0.65	0.62
BLE_2M	Ant1	2402	0.81	1.25	64.80	1.88	1.23
		2440	0.81	1.25	64.80	1.88	1.23
		2480	0.77	1.25	61.60	2.10	1.30



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### Test Graphs

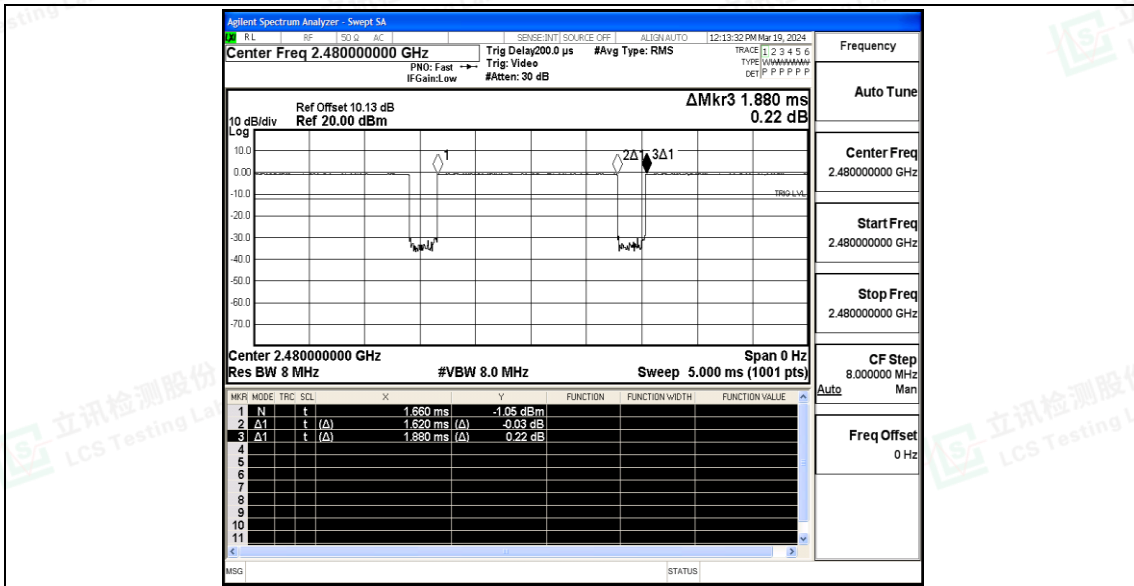


Shenzhen LCS Compliance Testing Laboratory Ltd.

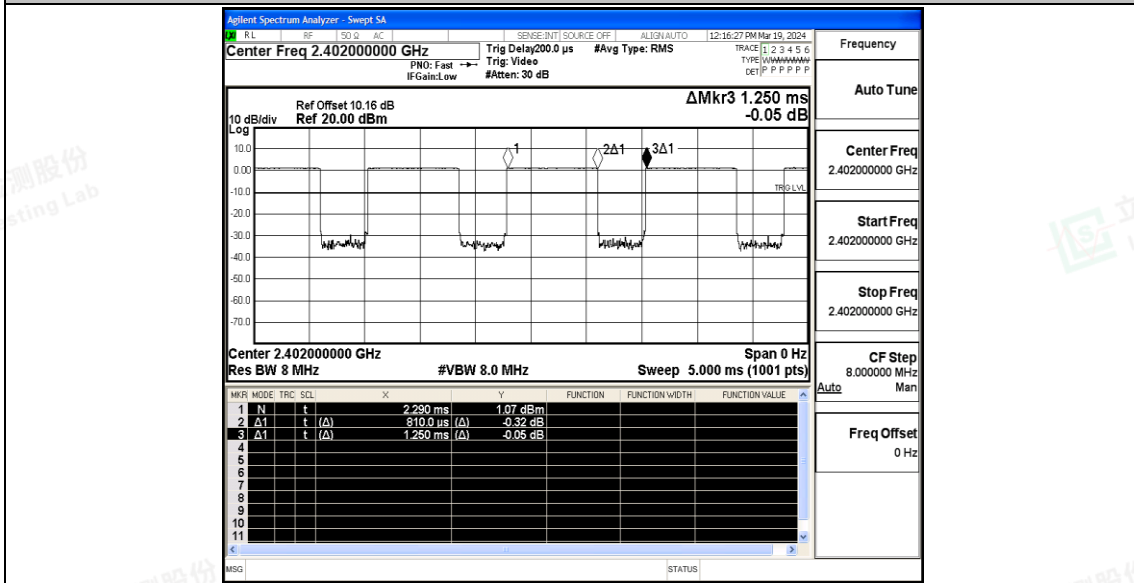
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

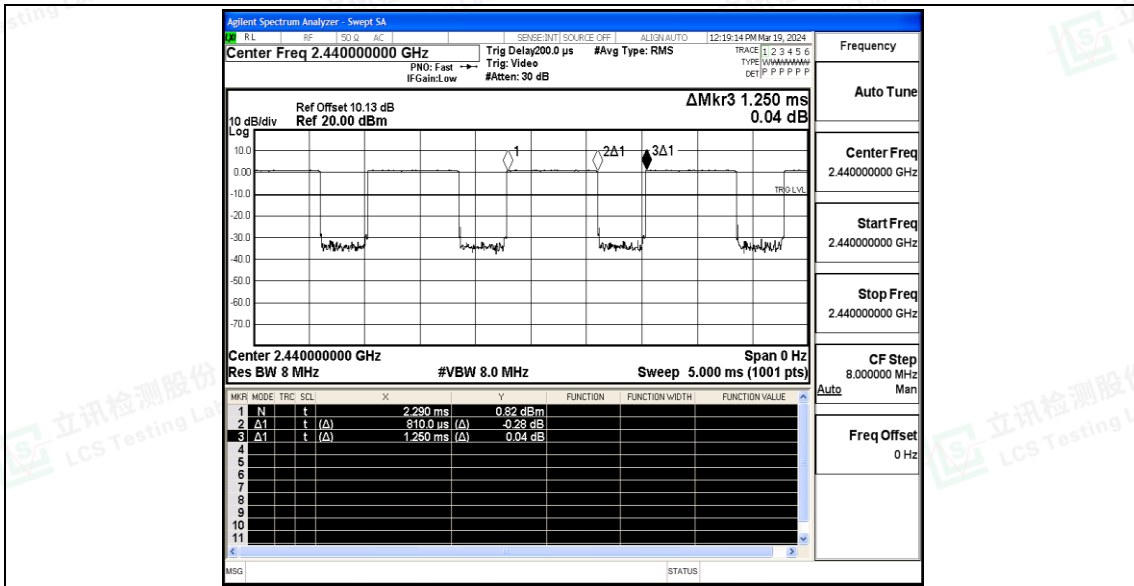


Shenzhen LCS Compliance Testing Laboratory Ltd.

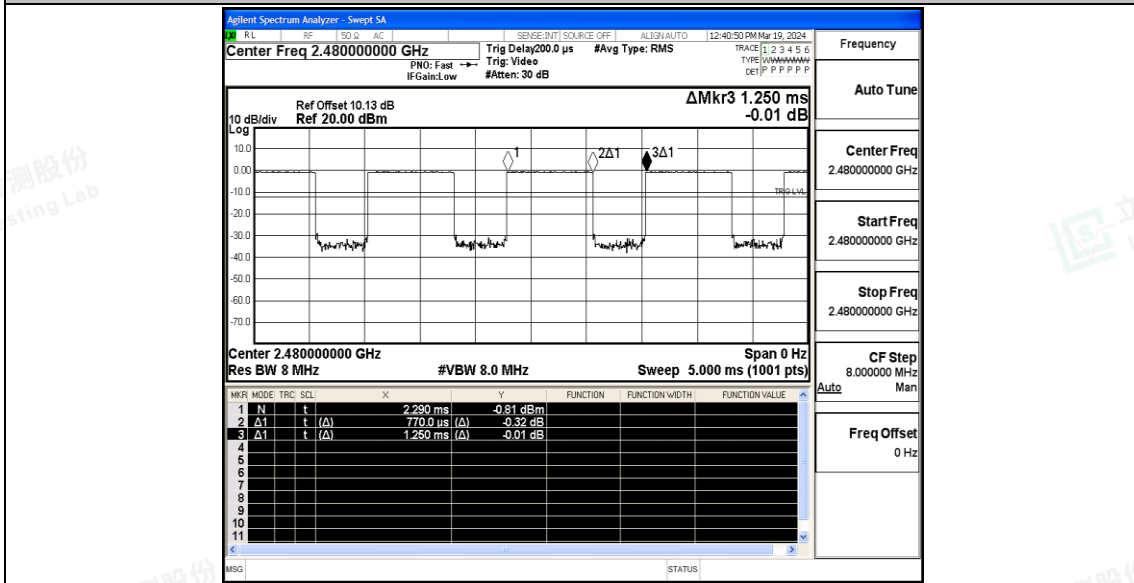
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE\_2M\_Ant1\_2480



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### B.7 Emissions in Restricted Bands

Left Ear:

#### Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-47.37	≤-41.20	47.83	≤54	PASS
				AV	2376.860	-46.21	≤-41.20	48.99	≤54	PASS
				AV	2390.000	-46.98	≤-41.20	48.22	≤54	PASS
				Peak	2310.000	-40.93	≤-21.20	54.27	≤74	PASS
				Peak	2389.355	-36.49	≤-21.20	58.71	≤74	PASS
				Peak	2390.000	-39.85	≤-21.20	55.35	≤74	PASS
		High	2480	AV	2483.500	-47.27	≤-41.20	47.93	≤54	PASS
				AV	2495.600	-46.33	≤-41.20	48.87	≤54	PASS
				AV	2500.000	-46.81	≤-41.20	48.39	≤54	PASS
				Peak	2483.500	-40.23	≤-21.20	54.97	≤74	PASS
				Peak	2483.840	-36.33	≤-21.20	58.87	≤74	PASS
				Peak	2500.000	-39.59	≤-21.20	55.61	≤74	PASS
BLE_2M	Ant1	Low	2402	AV	2310.000	-46.57	≤-41.20	48.63	≤54	PASS
				AV	2376.335	-45.07	≤-41.20	50.13	≤54	PASS
				AV	2390.000	-45.97	≤-41.20	49.23	≤54	PASS
				Peak	2310.000	-40.05	≤-21.20	55.15	≤74	PASS
				Peak	2384.735	-36.75	≤-21.20	58.45	≤74	PASS
				Peak	2390.000	-39.53	≤-21.20	55.67	≤74	PASS
		High	2480	AV	2483.500	-46.07	≤-41.20	49.13	≤54	PASS
				AV	2499.840	-45.11	≤-41.20	50.09	≤54	PASS
				AV	2500.000	-45.99	≤-41.20	49.21	≤54	PASS
				Peak	2483.500	-41.13	≤-21.20	54.07	≤74	PASS
				Peak	2484.080	-36.09	≤-21.20	59.11	≤74	PASS
				Peak	2500.000	-39.03	≤-21.20	56.17	≤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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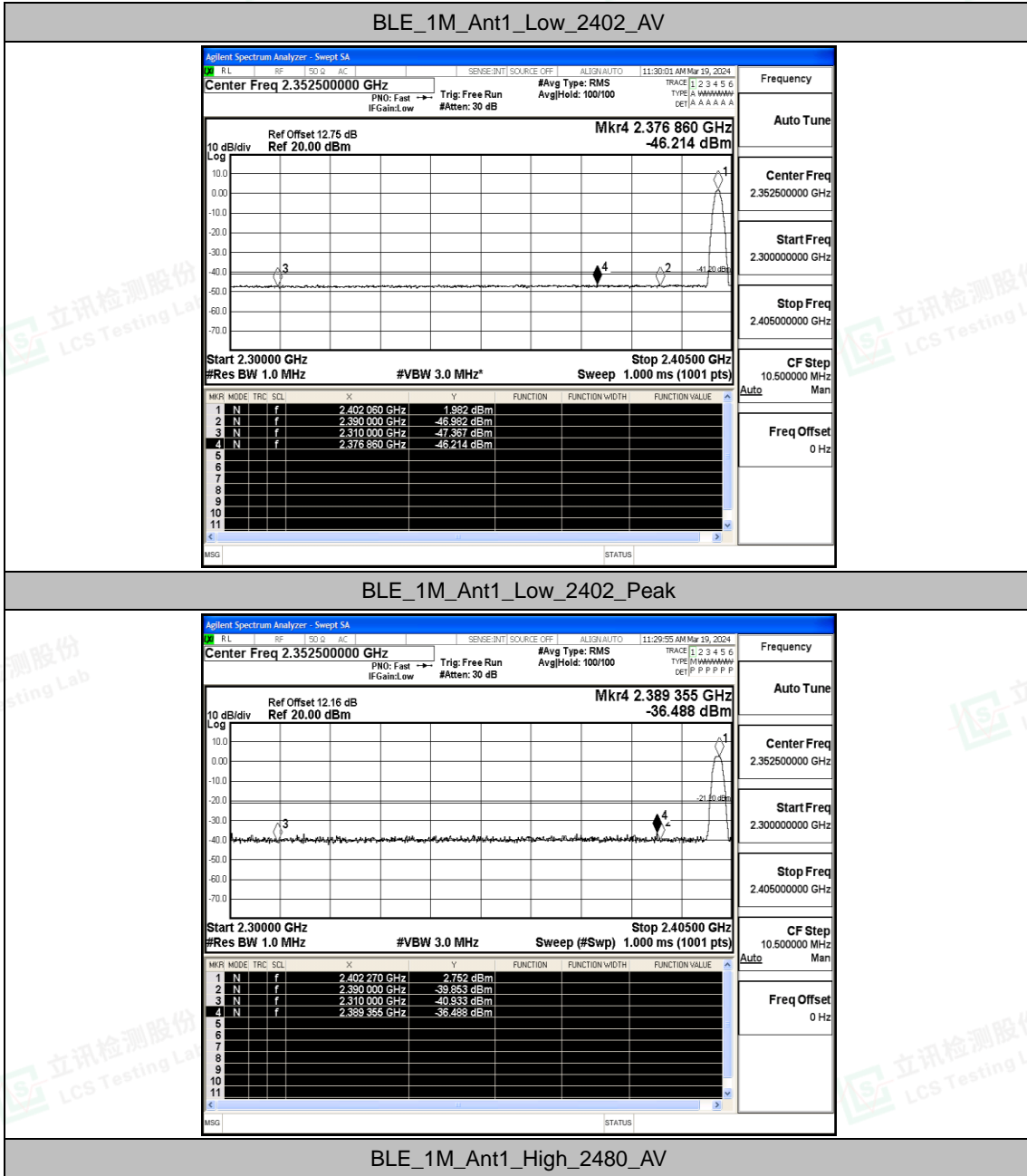
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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### Test Graphs

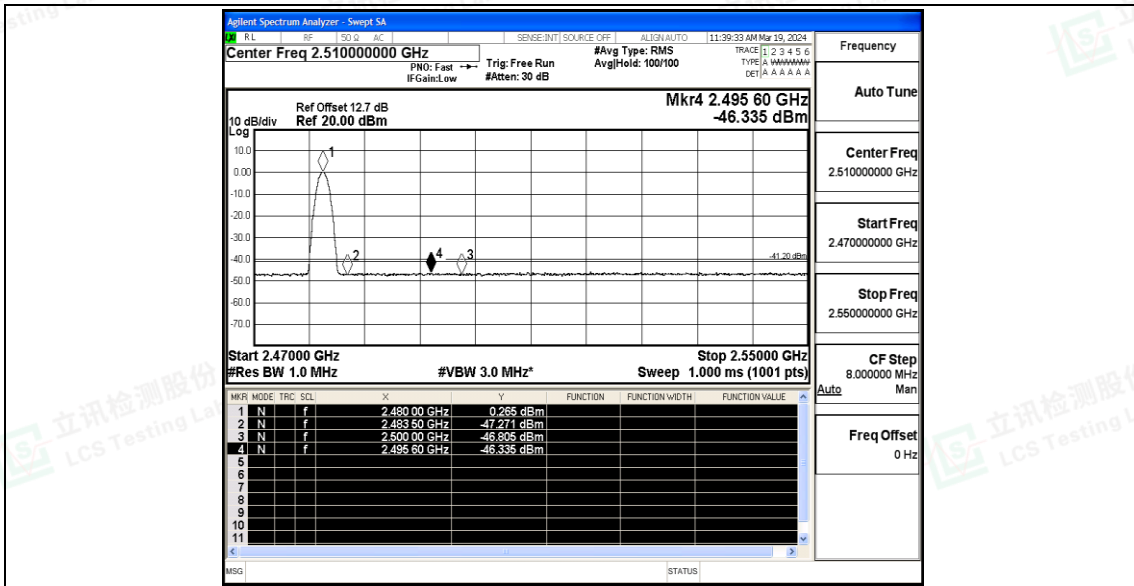


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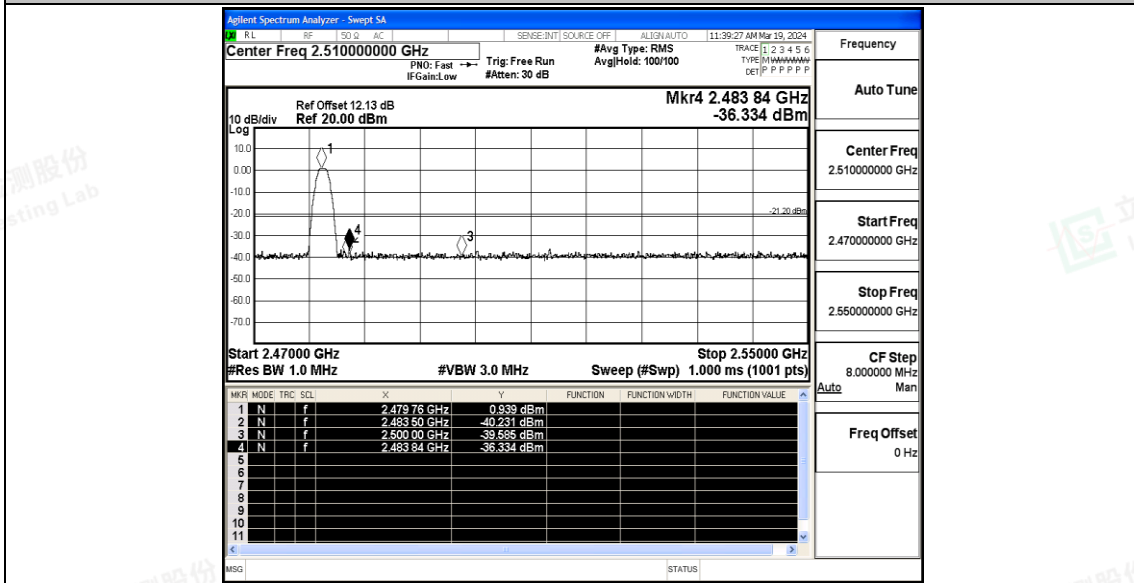
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE\_1M\_Ant1\_High\_2480\_Peak



BLE\_2M\_Ant1\_Low\_2402\_AV



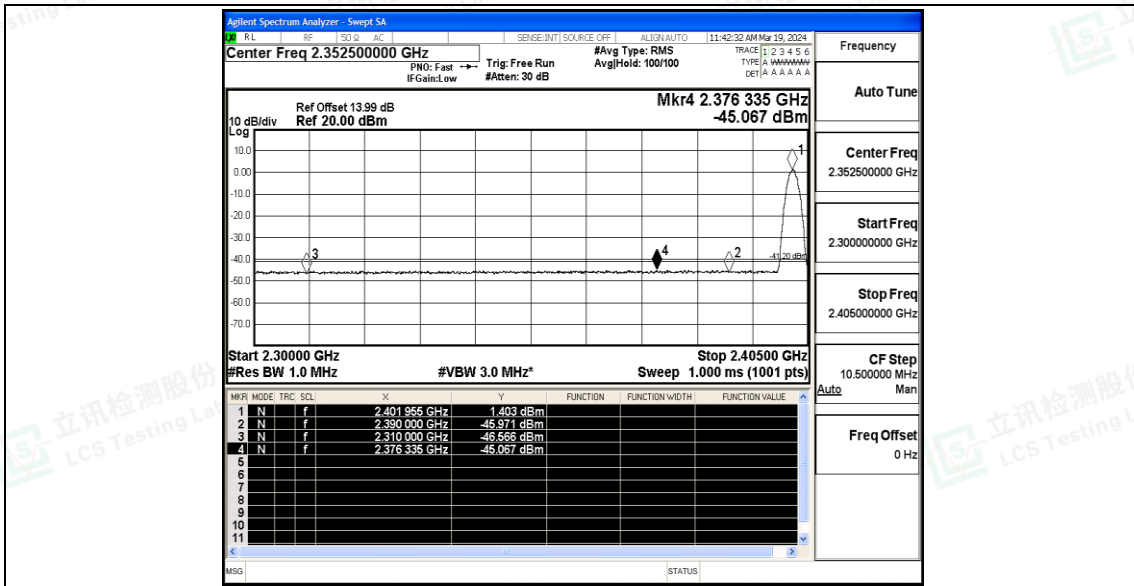
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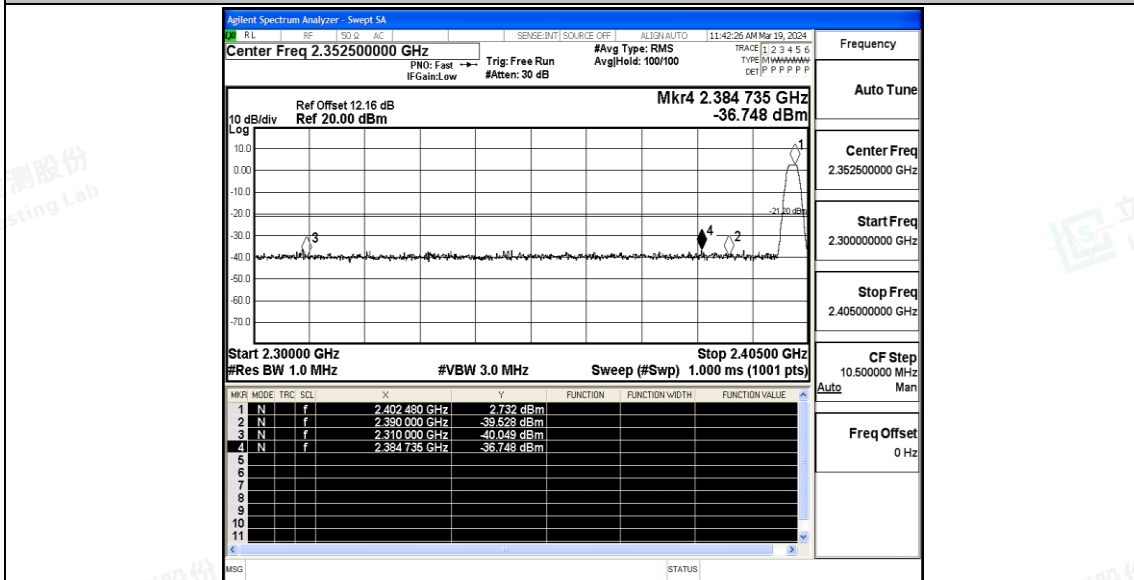
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BLE\_2M\_Ant1\_Low\_2402\_Peak



BLE\_2M\_Ant1\_High\_2480\_AV

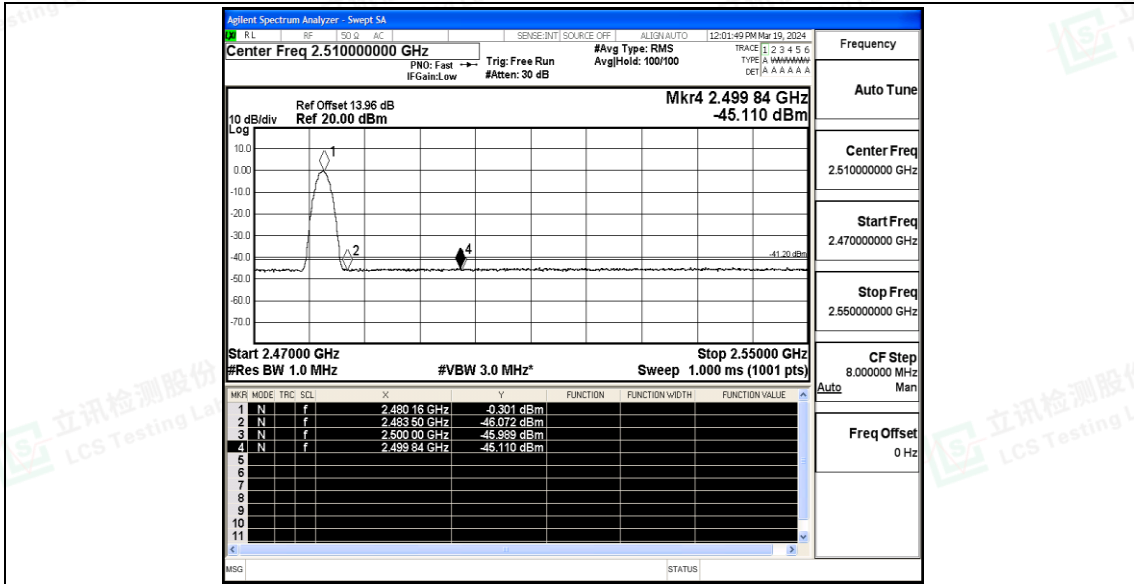


Shenzhen LCS Compliance Testing Laboratory Ltd.

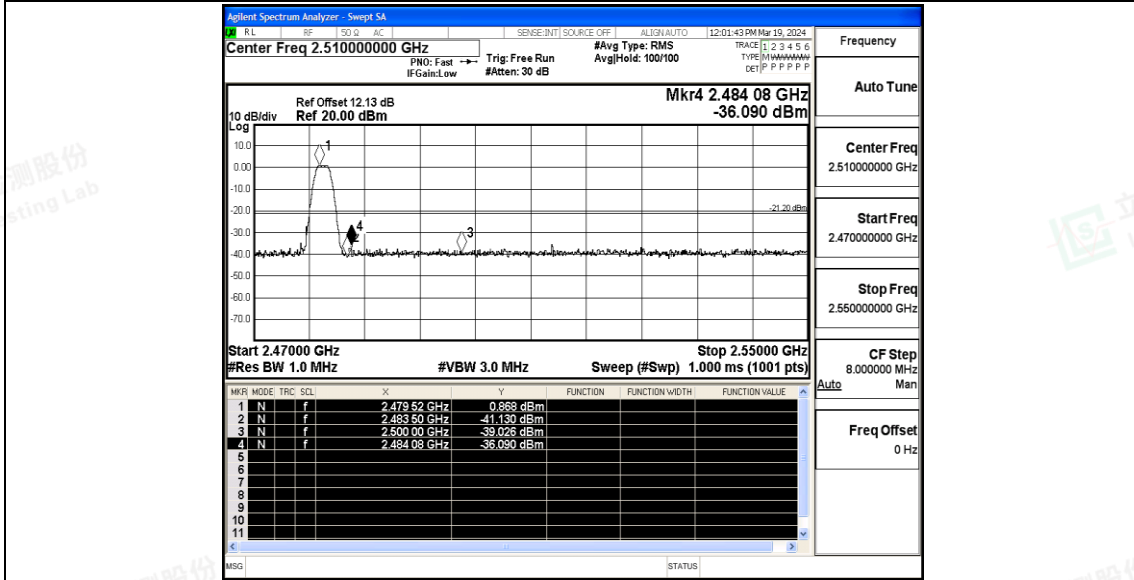
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE\_2M\_Ant1\_High\_2480\_Peak



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Right Ear:

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-47.46	≤-41.20	47.74	≤54	PASS
				AV	2378.120	-46.54	≤-41.20	48.66	≤54	PASS
				AV	2390.000	-47.09	≤-41.20	48.11	≤54	PASS
				Peak	2310.000	-39.85	≤-21.20	55.35	≤74	PASS
				Peak	2375.705	-37.16	≤-21.20	58.04	≤74	PASS
				Peak	2390.000	-40.25	≤-21.20	54.95	≤74	PASS
		High	2480	AV	2483.500	-47.38	≤-41.20	47.82	≤54	PASS
				AV	2498.320	-46.08	≤-41.20	49.12	≤54	PASS
				AV	2500.000	-46.96	≤-41.20	48.24	≤54	PASS
				Peak	2483.500	-39.67	≤-21.20	55.53	≤74	PASS
				Peak	2494.400	-36.95	≤-21.20	58.25	≤74	PASS
				Peak	2500.000	-39.39	≤-21.20	55.81	≤74	PASS
BLE_2M	Ant1	Low	2402	AV	2310.000	-46.27	≤-41.20	48.93	≤54	PASS
				AV	2362.685	-45.12	≤-41.20	50.08	≤54	PASS
				AV	2390.000	-46.03	≤-41.20	49.17	≤54	PASS
				Peak	2310.000	-40.63	≤-21.20	54.57	≤74	PASS
				Peak	2357.225	-36.76	≤-21.20	58.44	≤74	PASS
				Peak	2390.000	-39.21	≤-21.20	55.99	≤74	PASS
		High	2480	AV	2483.500	-48.72	≤-41.20	46.48	≤54	PASS
				AV	2490.960	-45.58	≤-41.20	49.62	≤54	PASS
				AV	2500.000	-48.46	≤-41.20	46.74	≤54	PASS
				Peak	2483.500	-37.38	≤-21.20	57.82	≤74	PASS
				Peak	2495.360	-36.89	≤-21.20	58.31	≤74	PASS
				Peak	2500.000	-39.01	≤-21.20	56.19	≤74	PASS

Note:

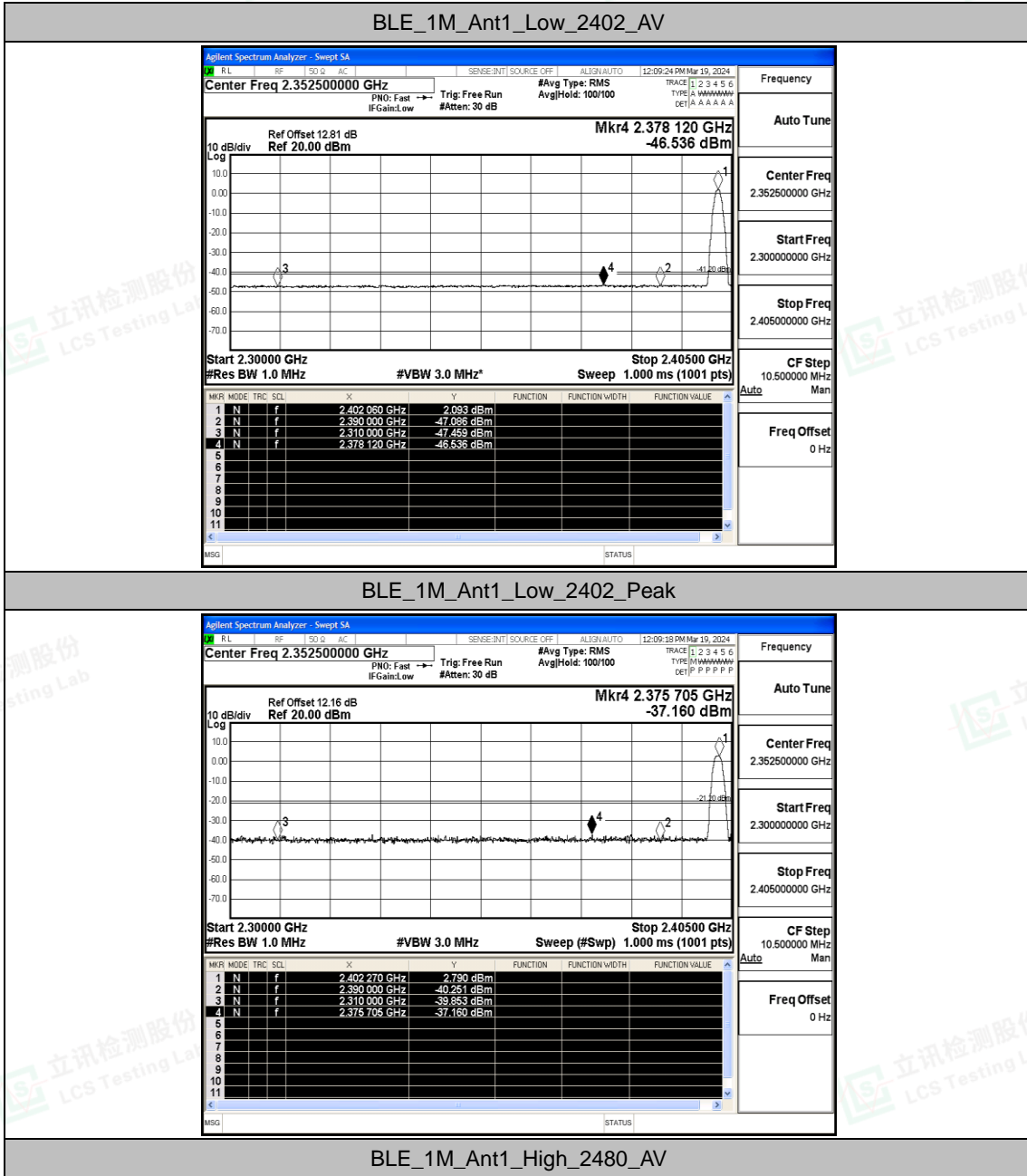
- 3. The Antenna Gain is compensated in the graph. The Correction Factor is compensated in the graph.
- 4. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



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### Test Graphs

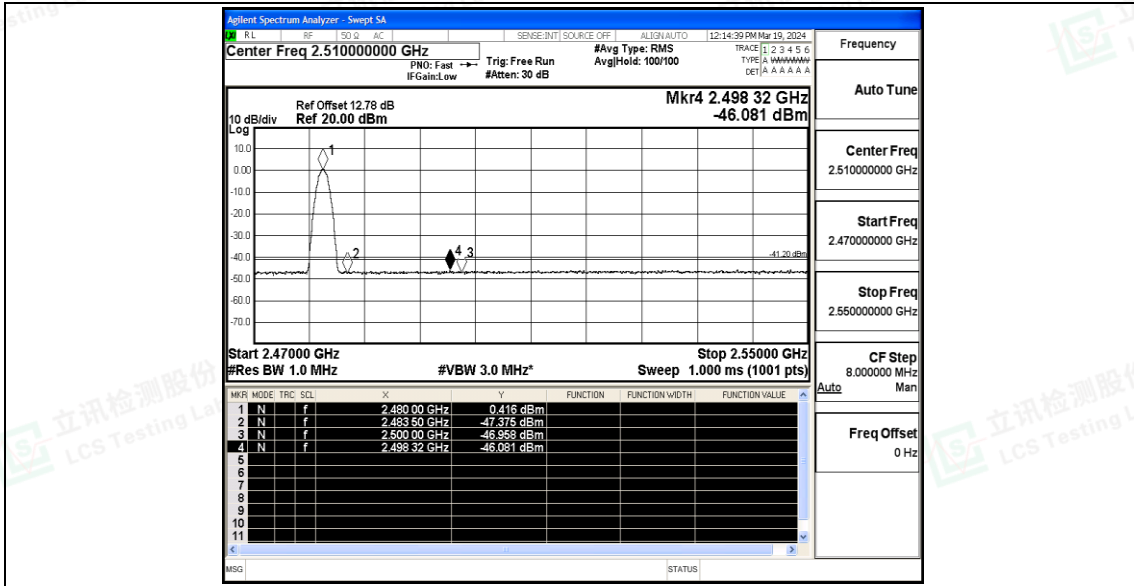


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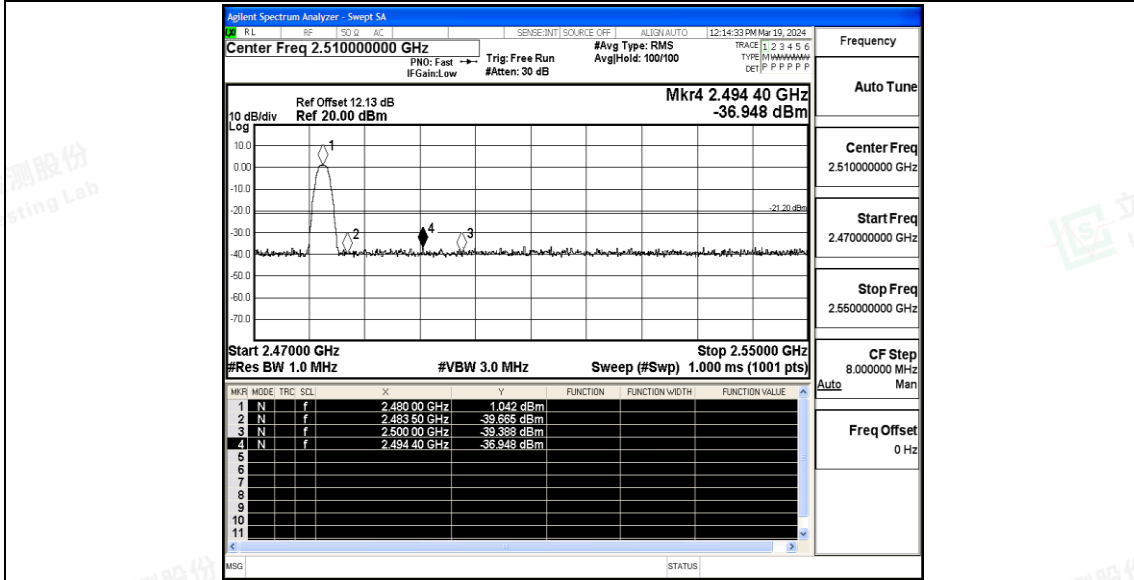
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BLE\_1M\_Ant1\_High\_2480\_Peak



BLE\_2M\_Ant1\_Low\_2402\_AV

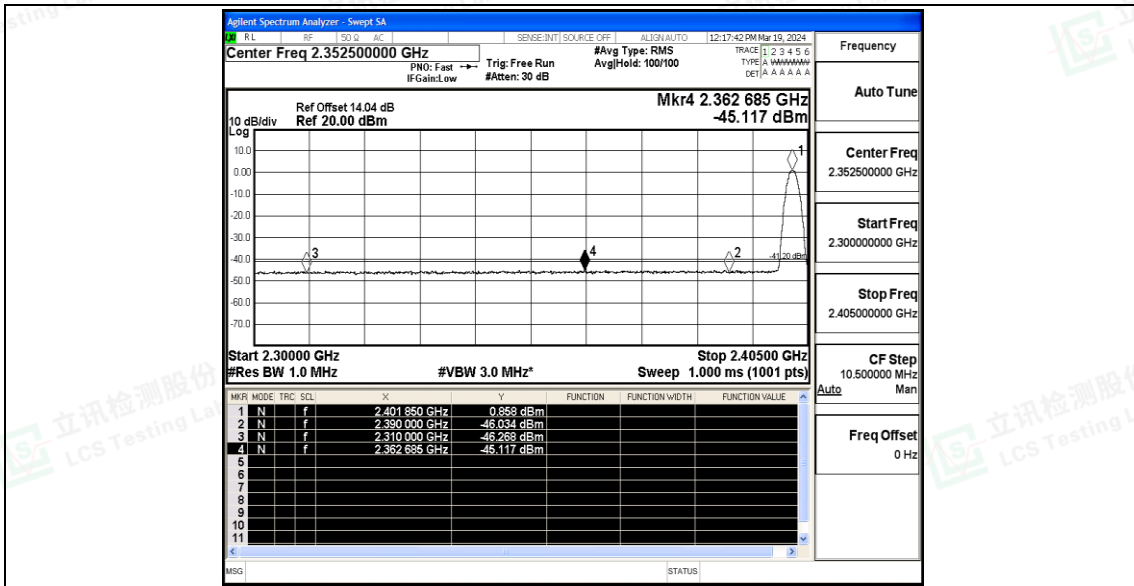


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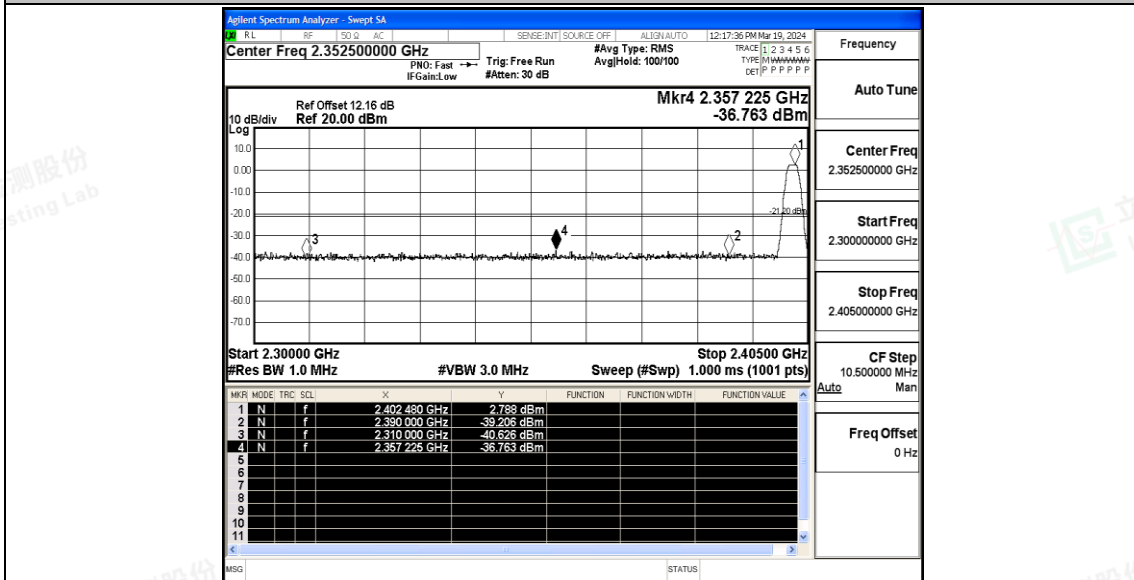
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BLE\_2M\_Ant1\_Low\_2402\_Peak



BLE\_2M\_Ant1\_High\_2480\_AV

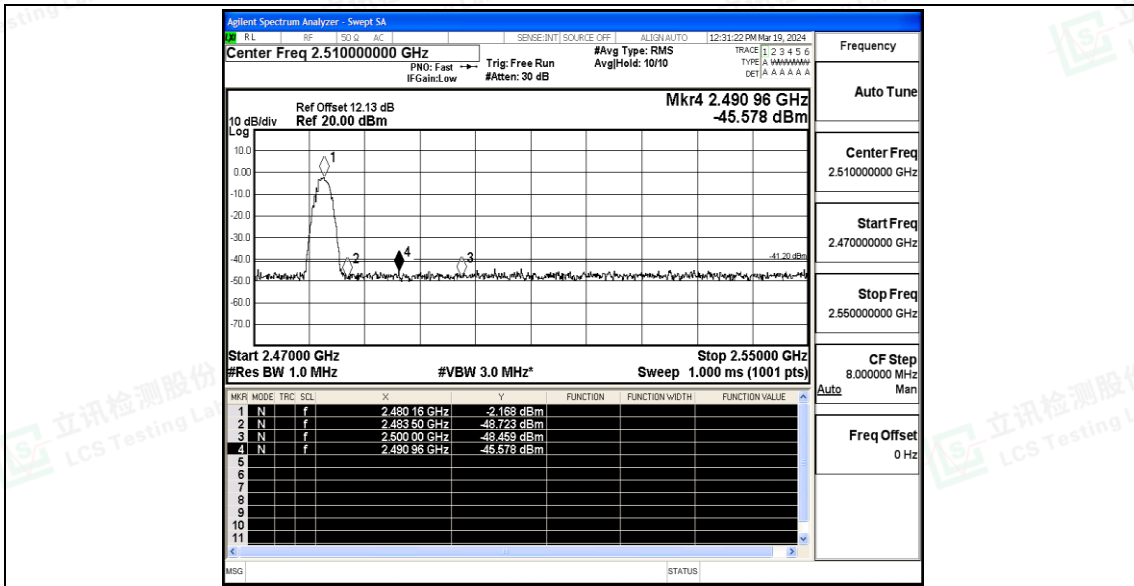


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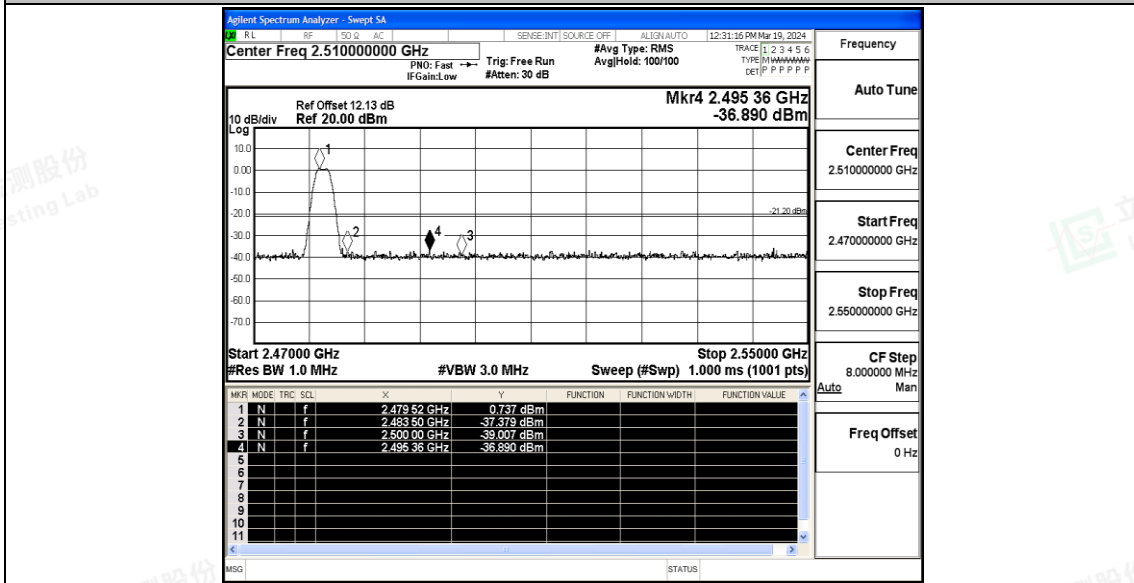
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BLE\_2M\_Ant1\_High\_2480\_Peak



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