



Appendix B

RF Test Data for BLE (Conducted Measurement)

Product Name: AMD R1505G Player

Test Model: SMPA-R1505G

Environmental Conditions

Temperature:	21.1 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan



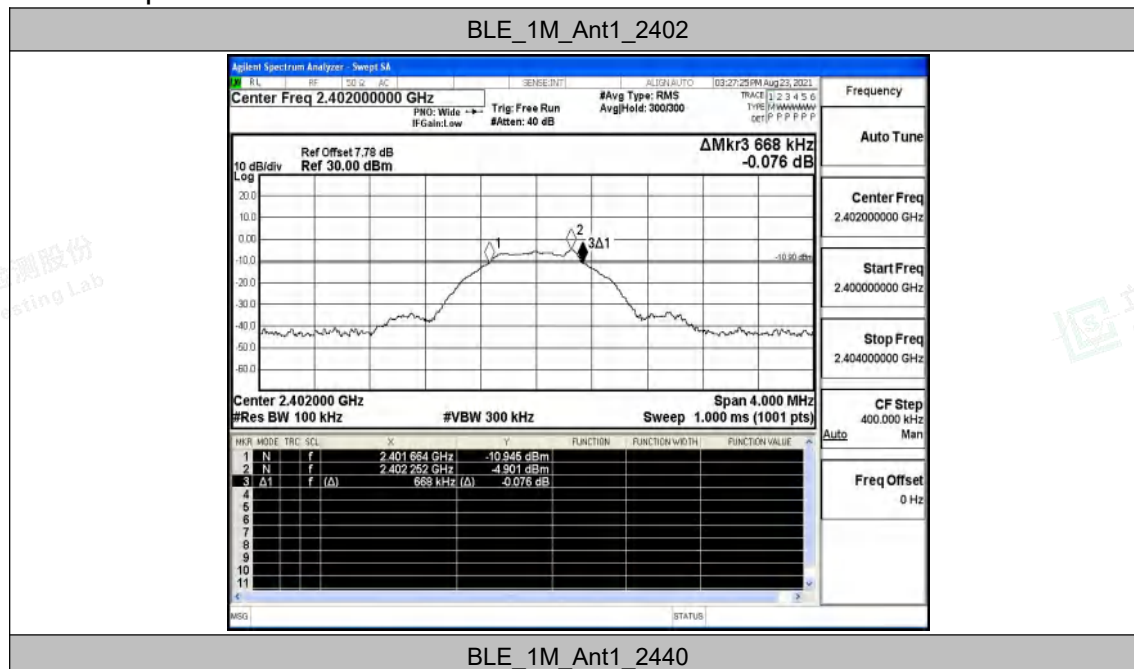


B.1 6Db Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.668	2401.664	2402.332	≥0.5	PASS
		2440	0.676	2439.660	2440.336	≥0.5	PASS
		2480	0.724	2479.628	2480.352	≥0.5	PASS
BLE_2M	Ant1	2402	1.160	2401.428	2402.588	≥0.5	PASS
		2440	1.156	2439.436	2440.592	≥0.5	PASS
		2480	1.160	2479.432	2480.592	≥0.5	PASS

Test Graphs

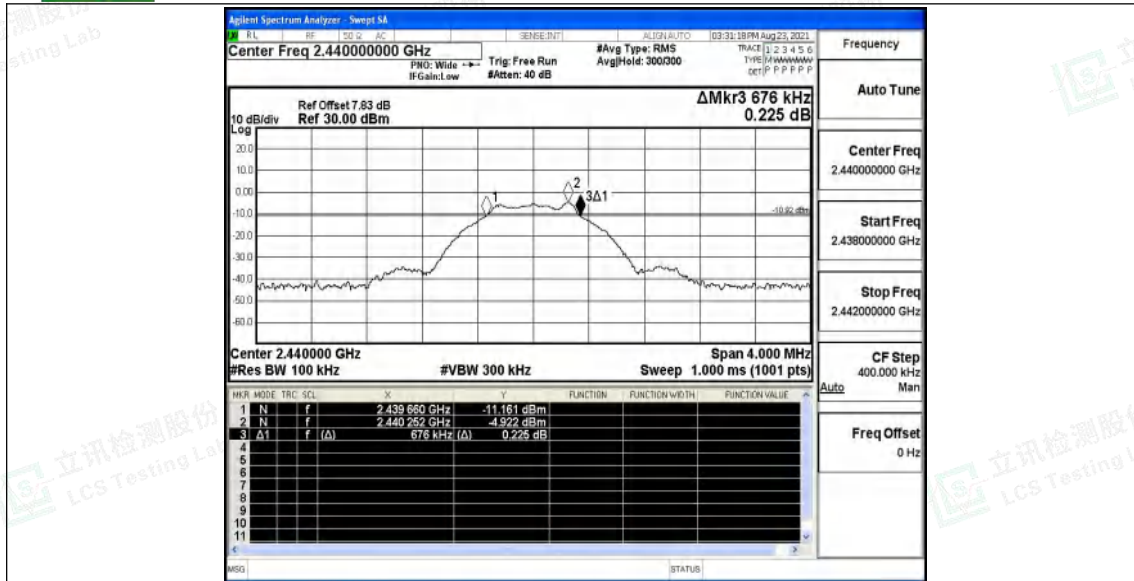


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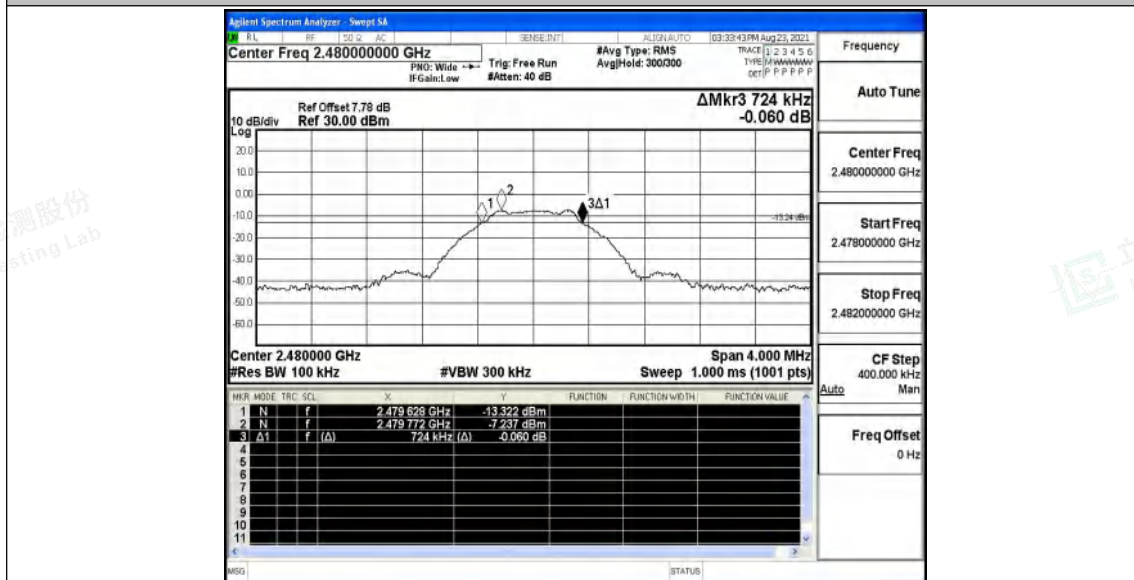
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402

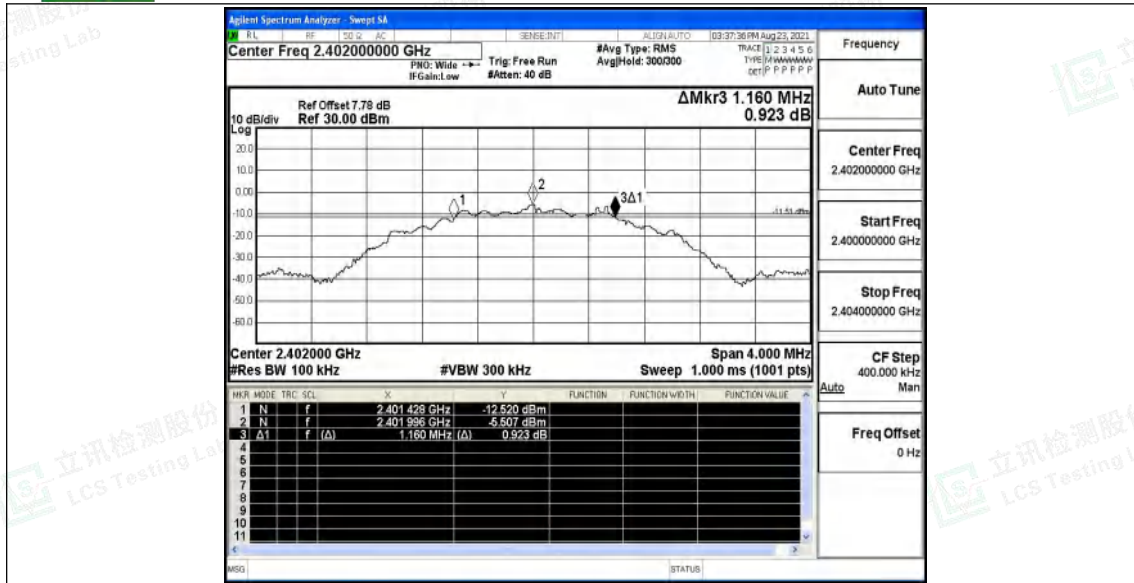


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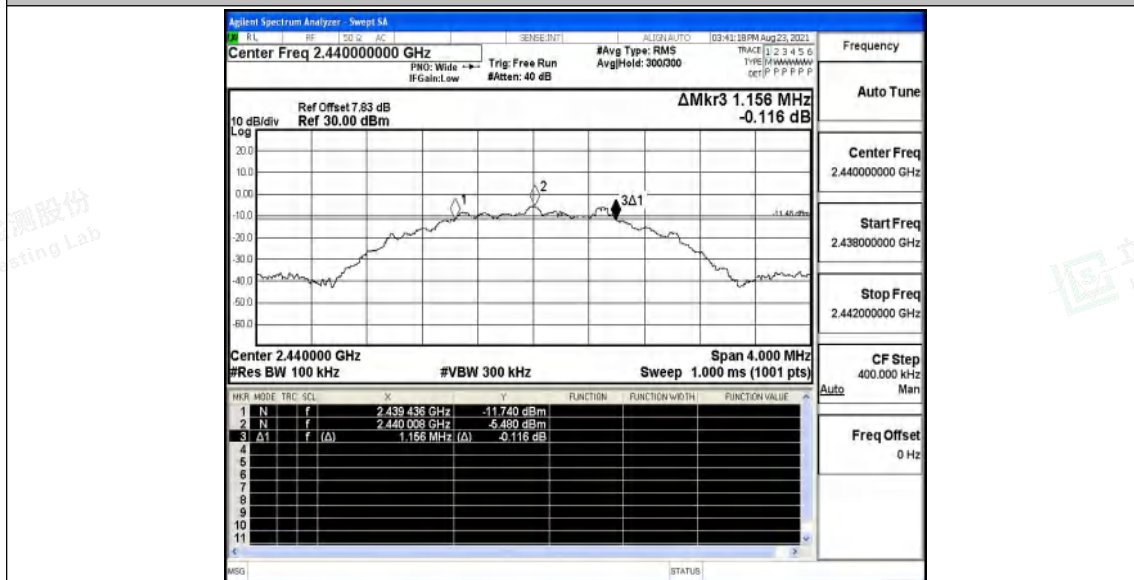
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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



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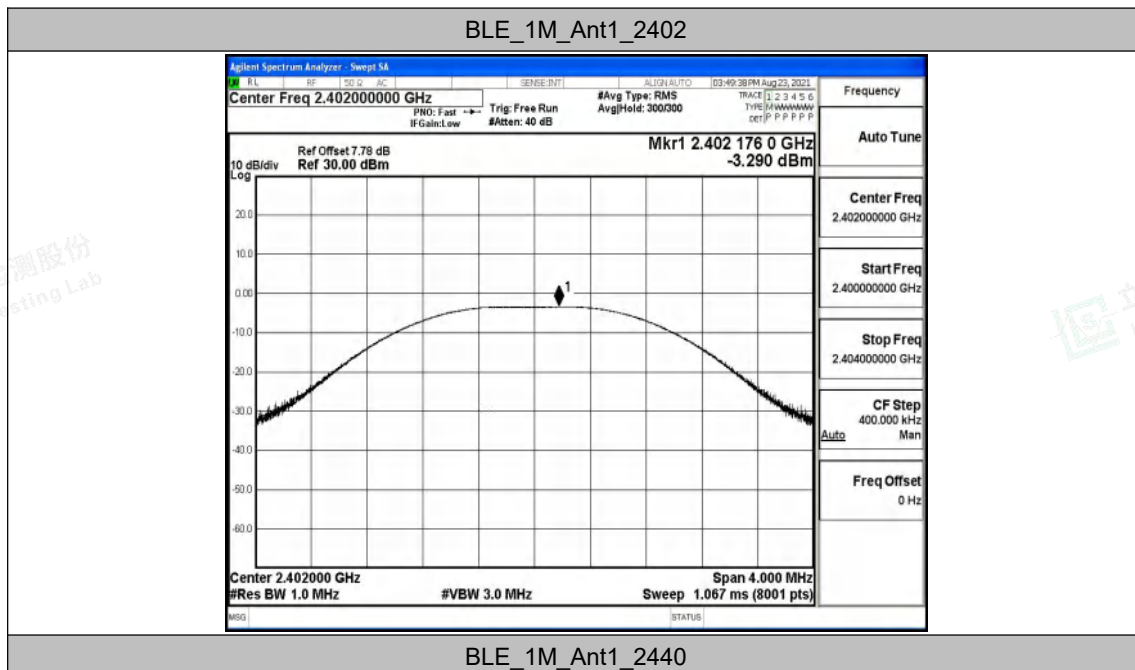


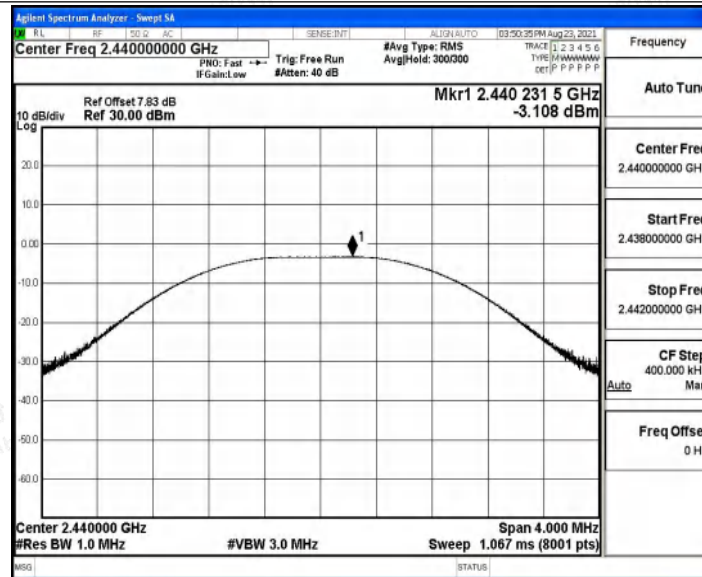
B.2 Maximum conducted output power

Test Result

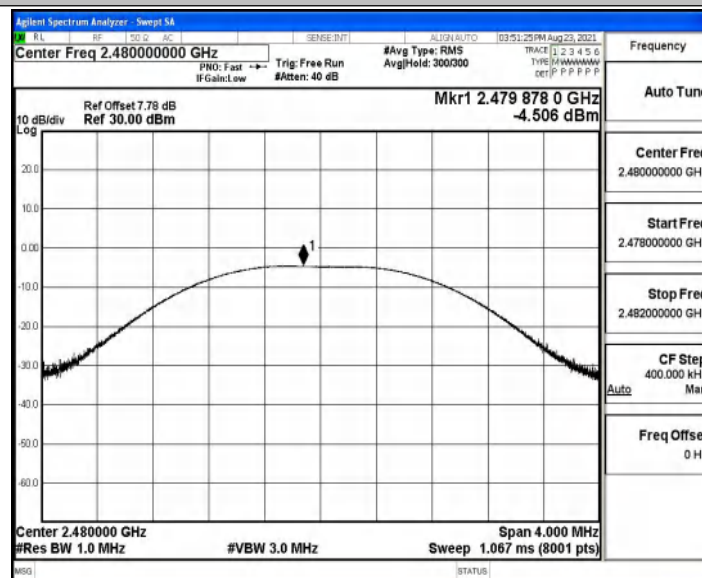
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.29	≤30	PASS
		2440	-3.11	≤30	PASS
		2480	-4.51	≤30	PASS
BLE_2M	Ant1	2402	-3.21	≤30	PASS
		2440	-3.19	≤30	PASS
		2480	-4.4	≤30	PASS

Test Graphs





BLE_1M_Ant1_2480



BLE_2M_Ant1_2402

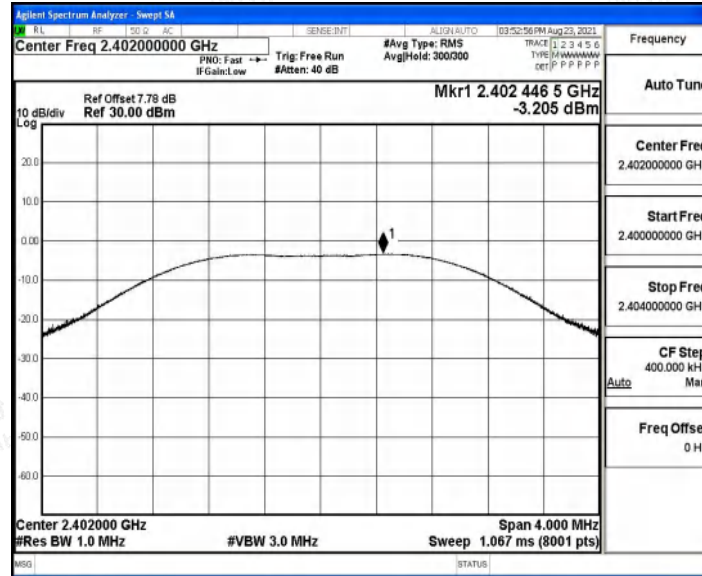


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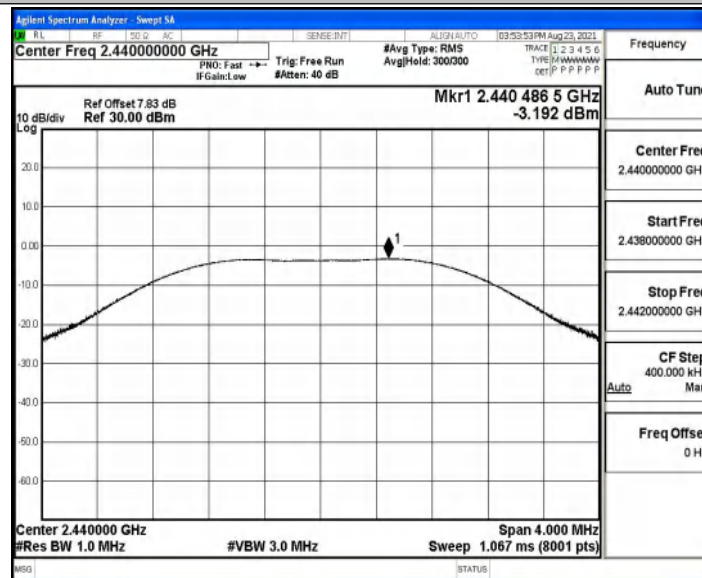
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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

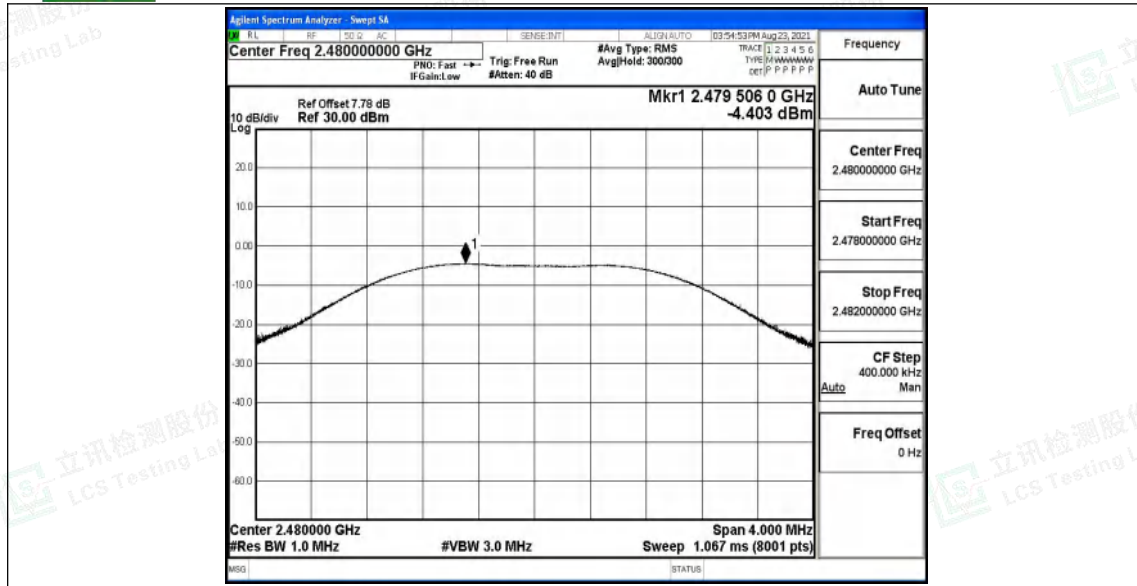


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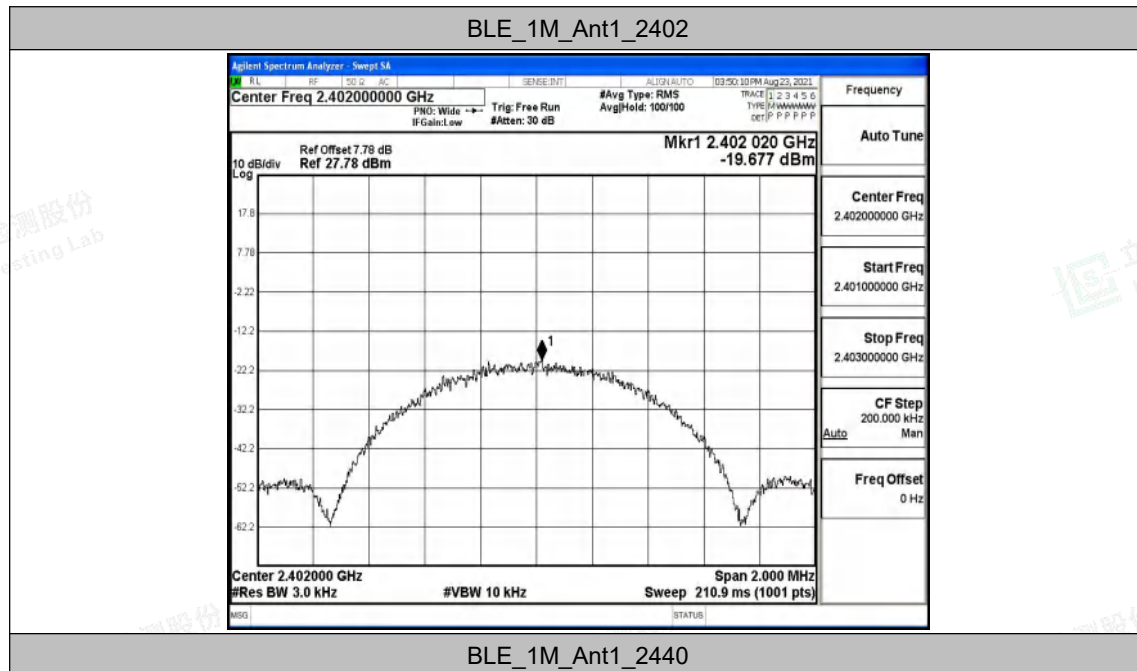


B.3 Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.68	≤8	PASS
		2440	-19.89	≤8	PASS
		2480	-20.89	≤8	PASS
BLE_2M	Ant1	2402	-22.18	≤8	PASS
		2440	-22.10	≤8	PASS
		2480	-23.44	≤8	PASS

Test Graphs

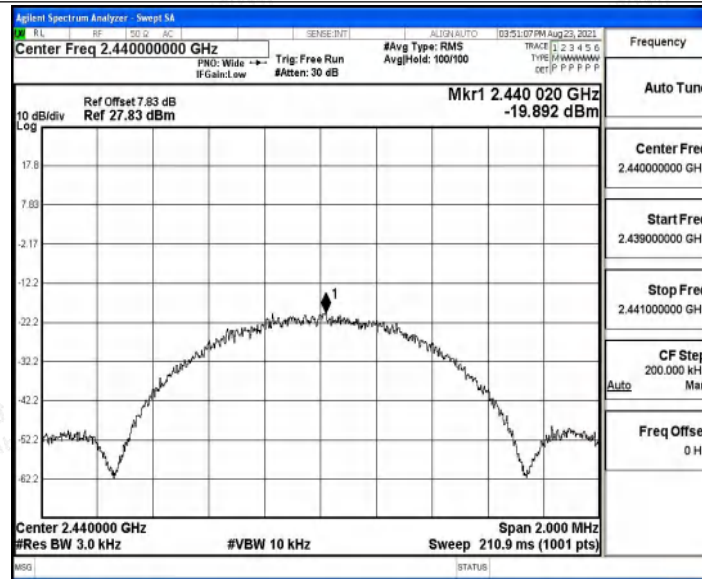


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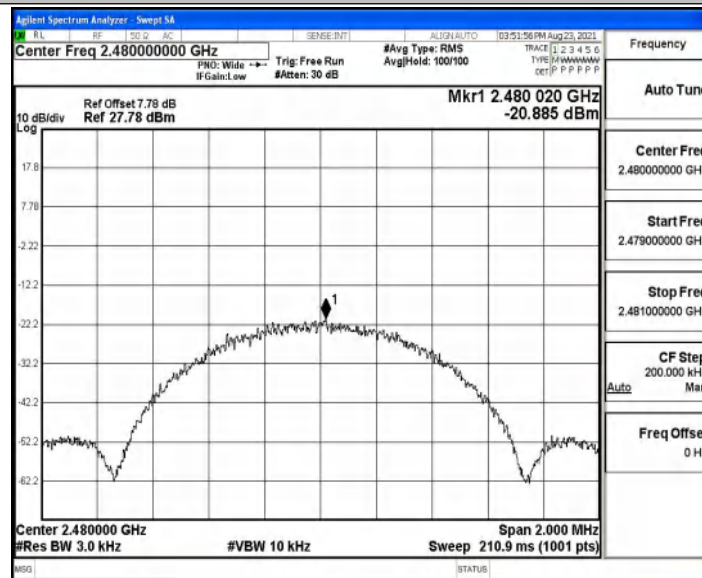
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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402

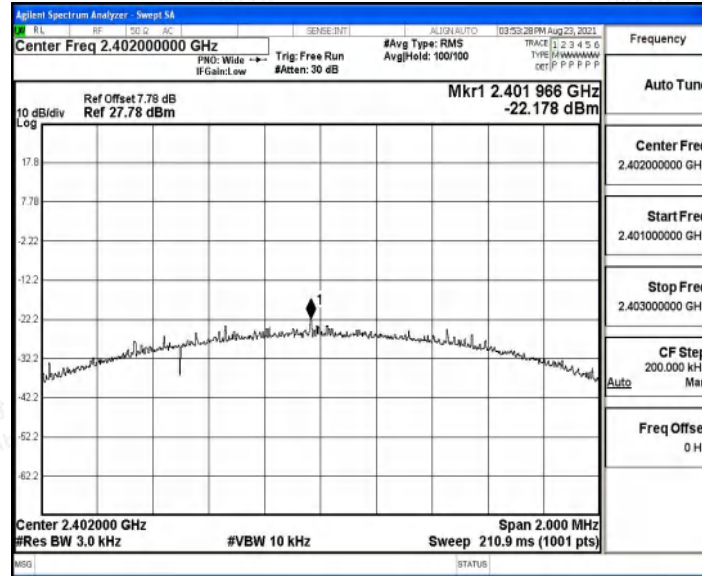


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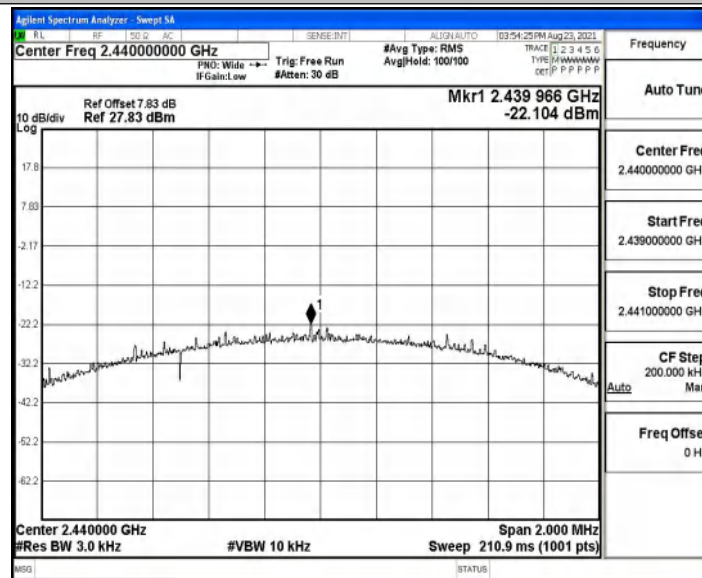
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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

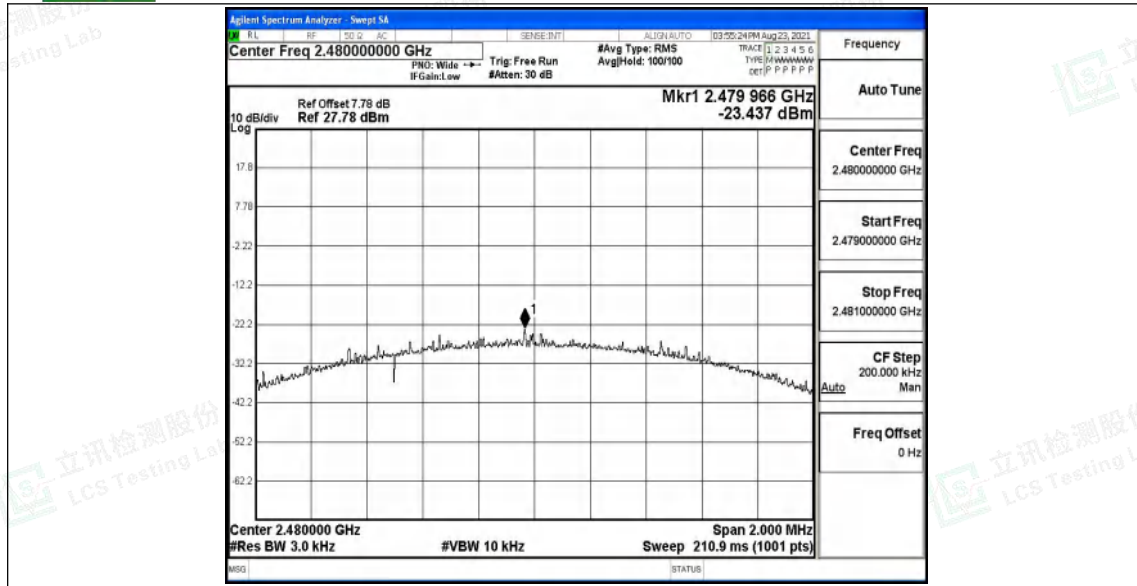


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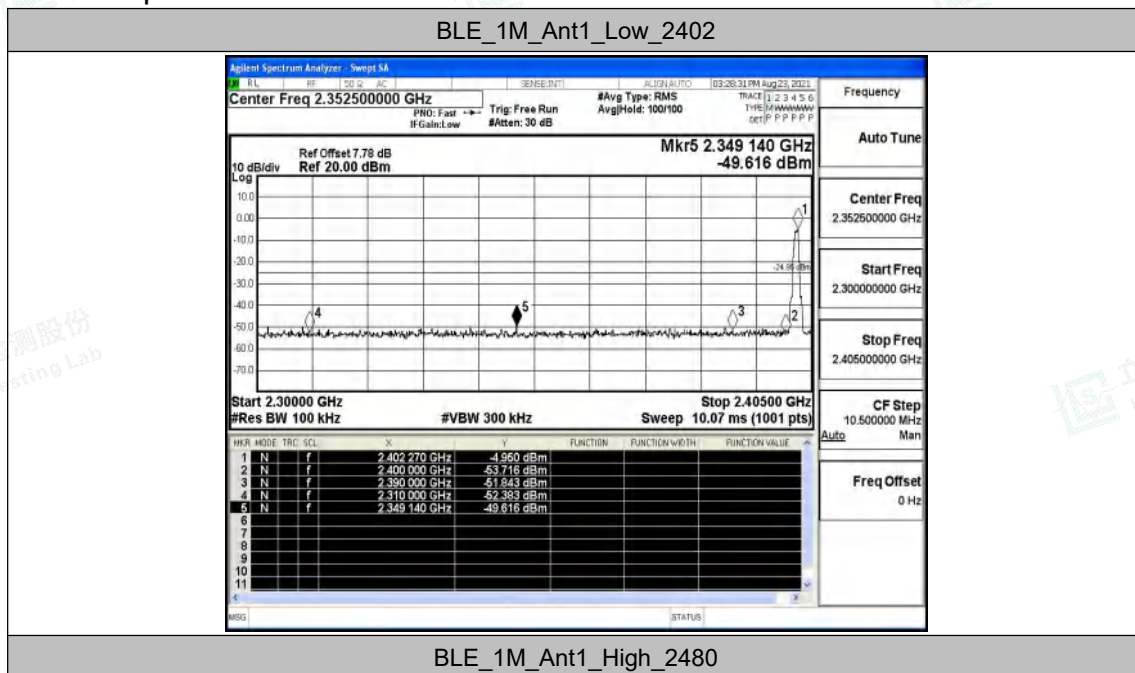


B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.95	-49.62	≤-24.95	PASS
		High	2480	-6.46	-48.61	≤-26.46	PASS
BLE_2M	Ant1	Low	2402	-7.18	-36.47	≤-27.18	PASS
		High	2480	-6.78	-48.85	≤-26.78	PASS

Test Graphs

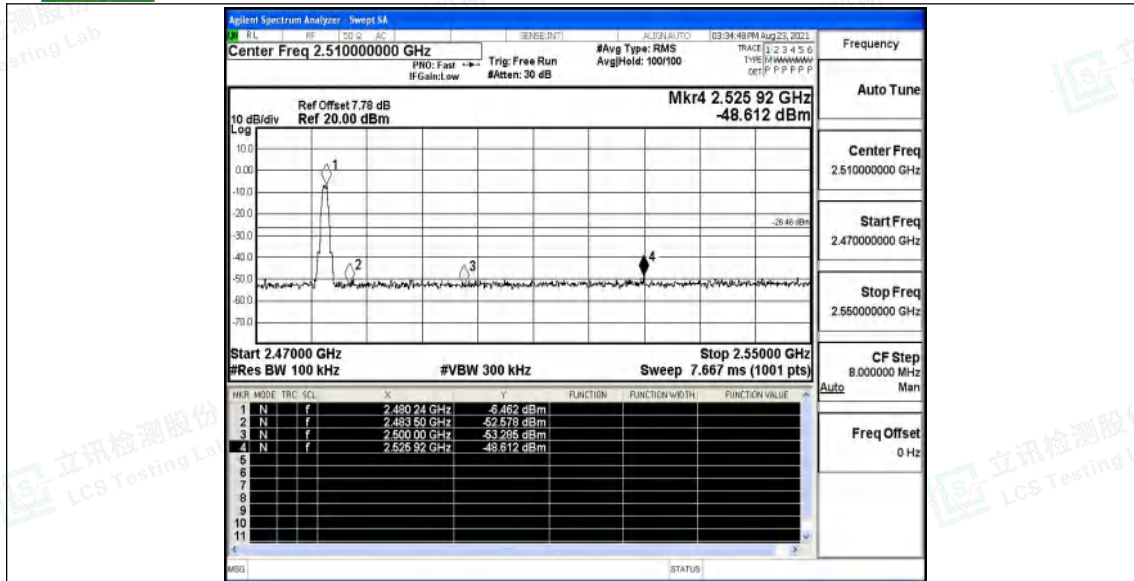


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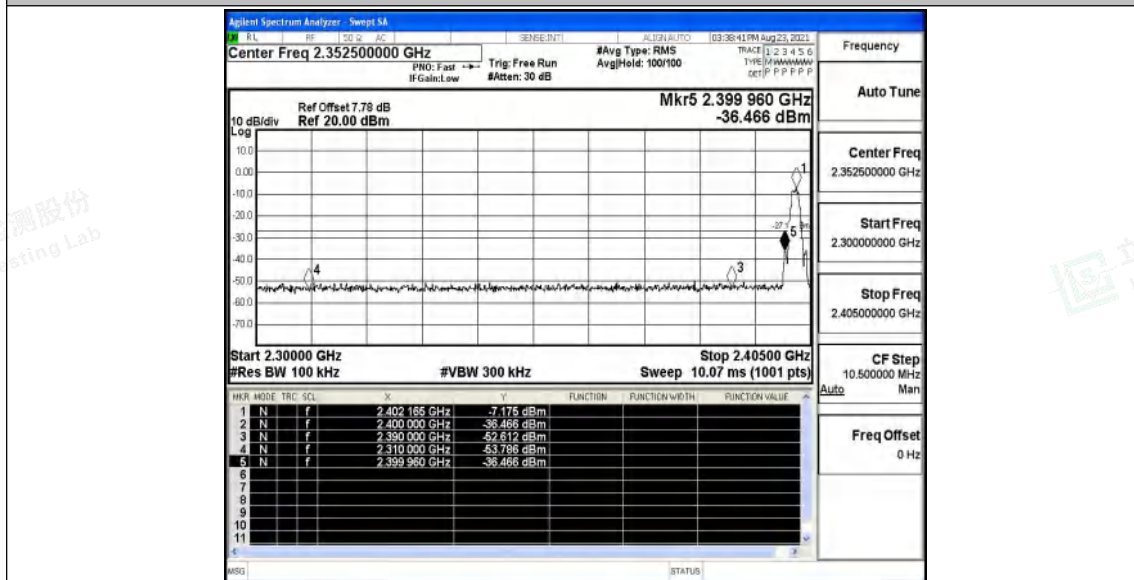
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BLE_2M_Ant1_Low_2402



BLE_2M_Ant1_High_2480

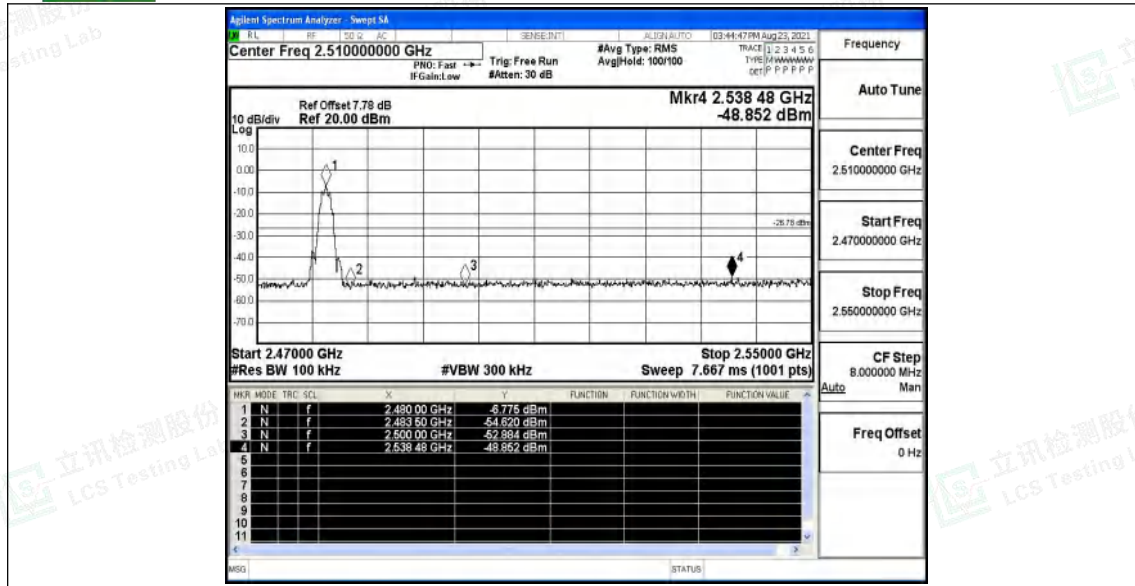


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B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-5.80	-5.80	---	PASS
			30~1000	-5.80	-57.29	≤-25.8	PASS
			1000~26500	-5.80	-47.48	≤-25.8	PASS
		2440	Reference	-4.97	-4.97	---	PASS
			30~1000	-4.97	-56.19	≤-24.97	PASS
			1000~26500	-4.97	-47.15	≤-24.97	PASS
		2480	Reference	-7.50	-7.50	---	PASS
			30~1000	-7.50	-56.42	≤-27.5	PASS
			1000~26500	-7.50	-47.11	≤-27.5	PASS
BLE_2M	Ant1	2402	Reference	-6.02	-6.02	---	PASS
			30~1000	-6.02	-56.34	≤-26.02	PASS
			1000~26500	-6.02	-47.12	≤-26.02	PASS
		2440	Reference	-5.75	-5.75	---	PASS
			30~1000	-5.75	-57.2	≤-25.75	PASS
			1000~26500	-5.75	-47.35	≤-25.75	PASS
		2480	Reference	-7.90	-7.90	---	PASS
			30~1000	-7.90	-56.73	≤-27.9	PASS
			1000~26500	-7.90	-47.58	≤-27.9	PASS



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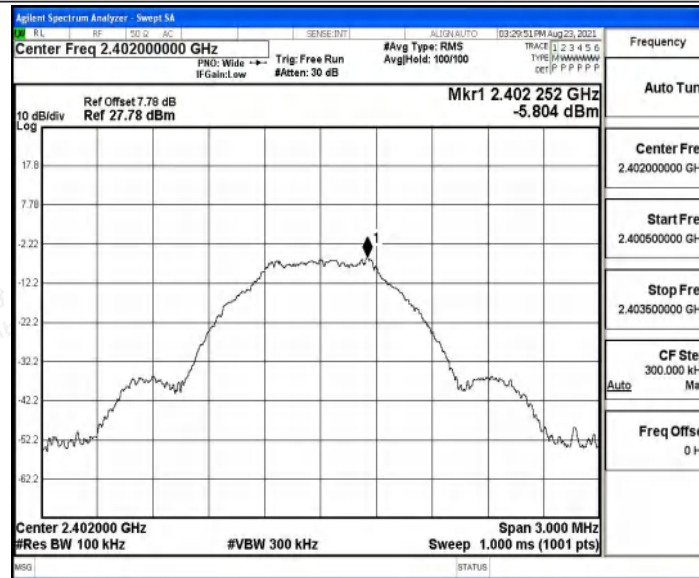
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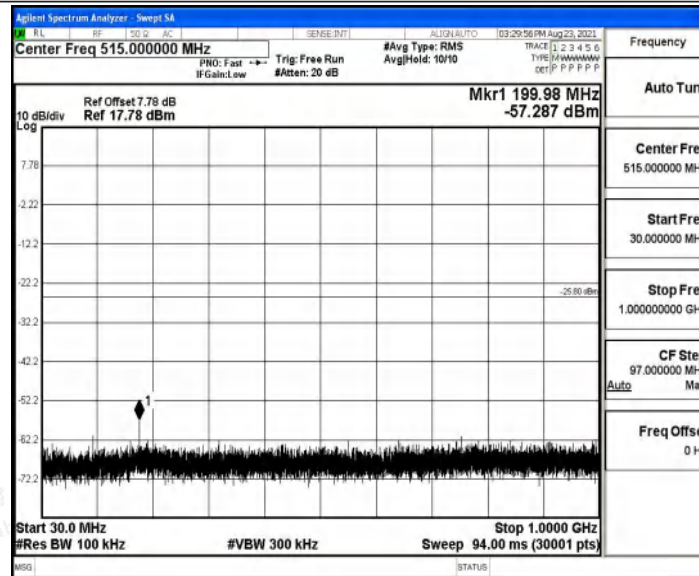


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

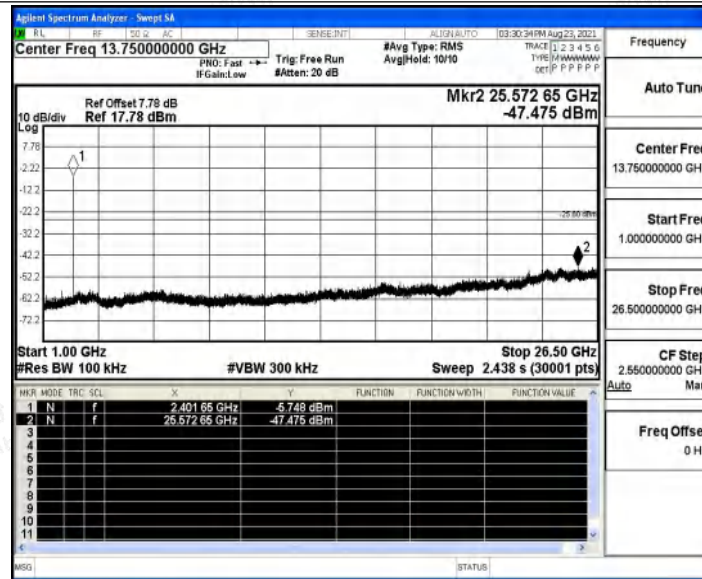


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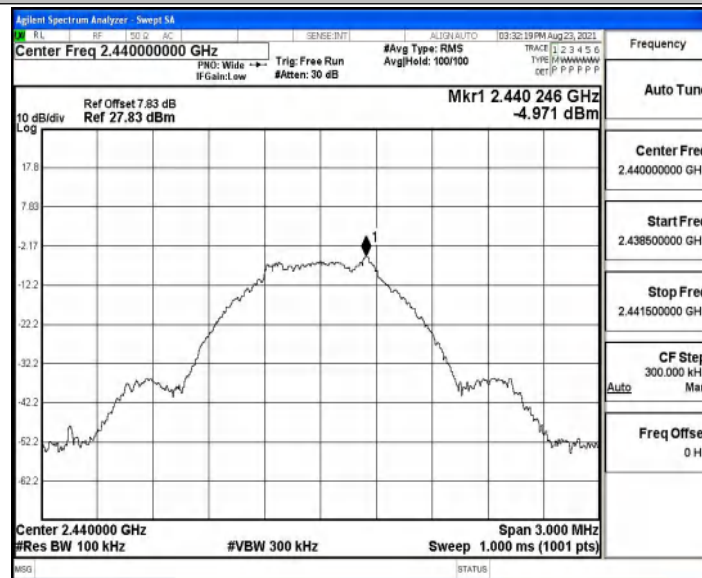
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

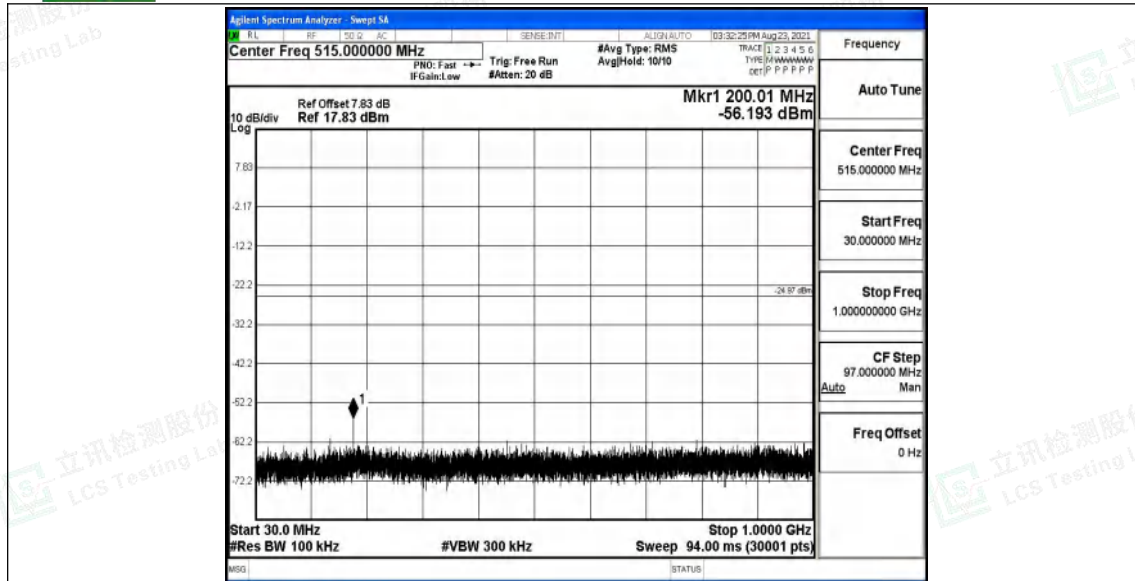


Shenzhen LCS Compliance Testing Laboratory Ltd.

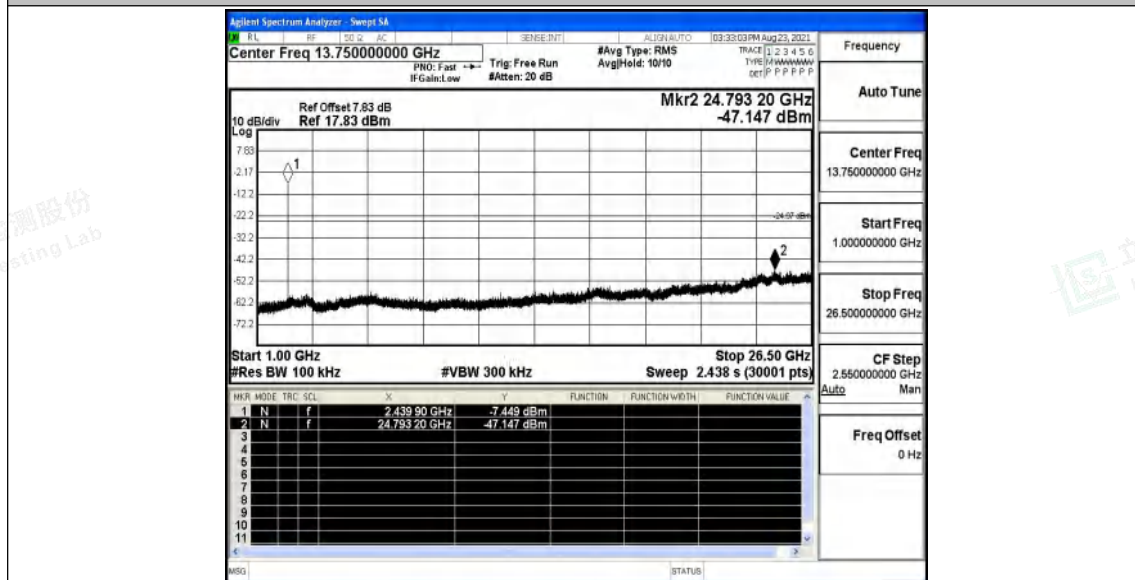
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

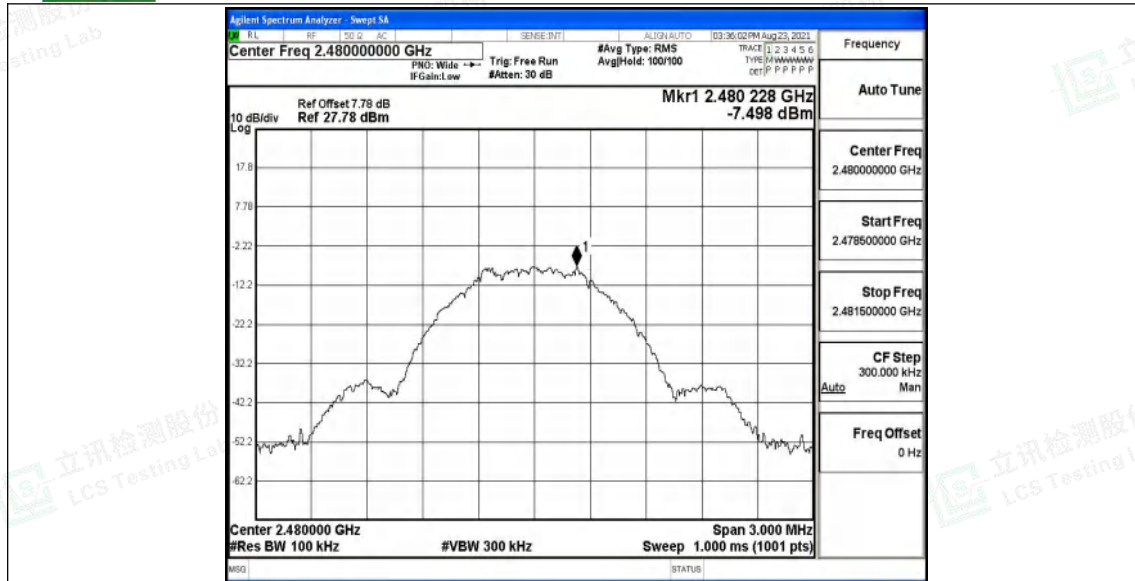


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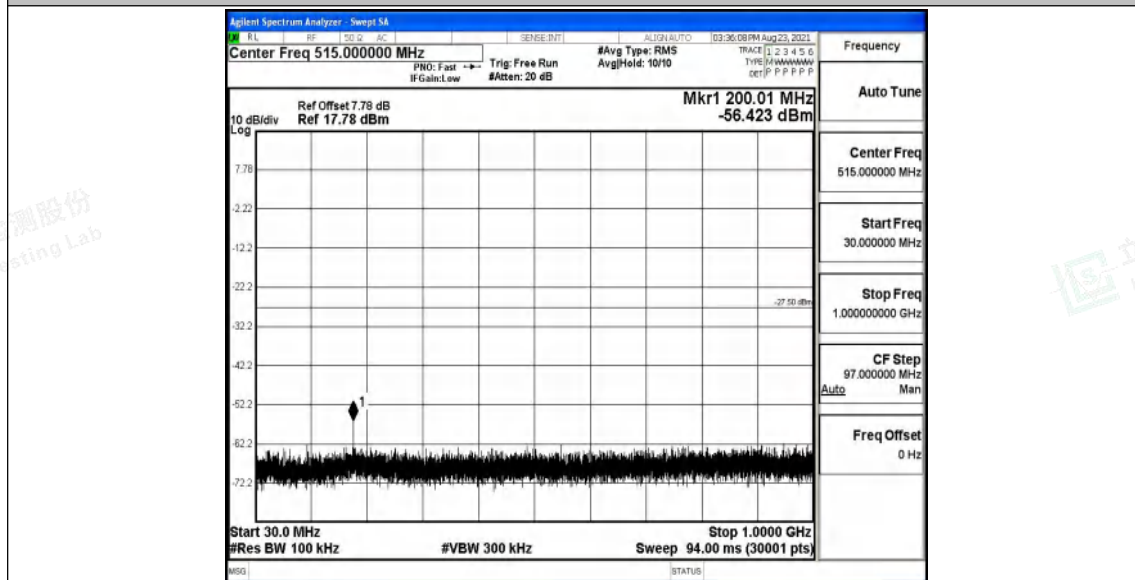
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

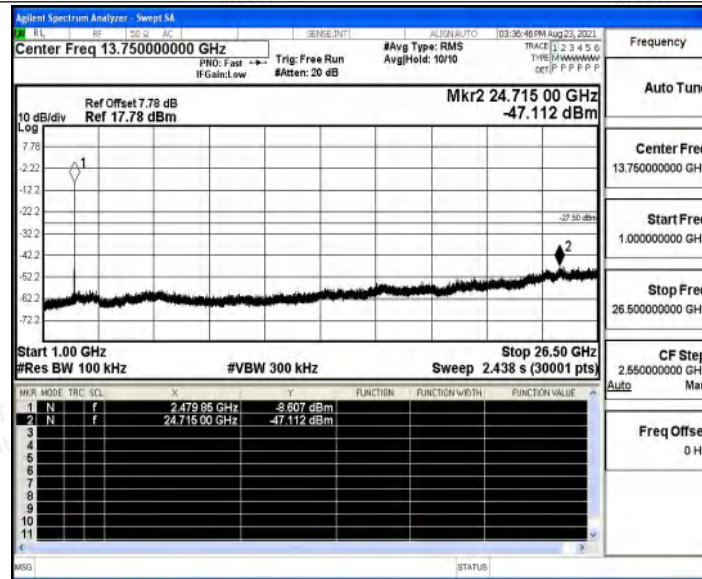


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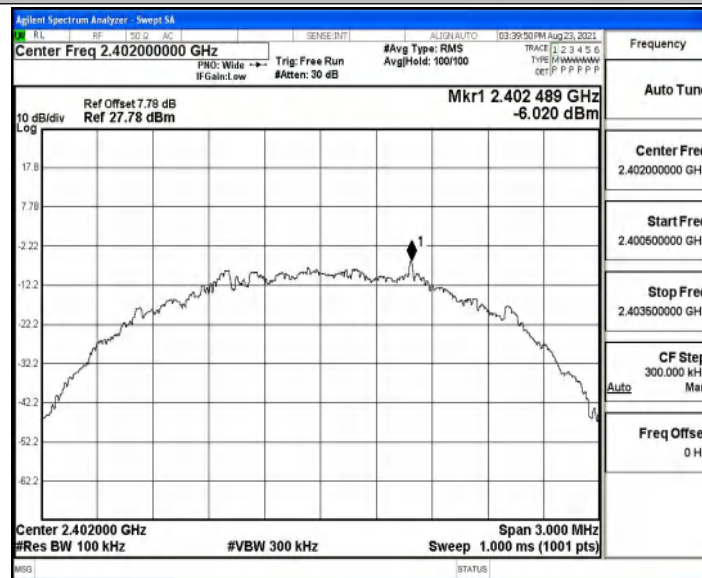
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

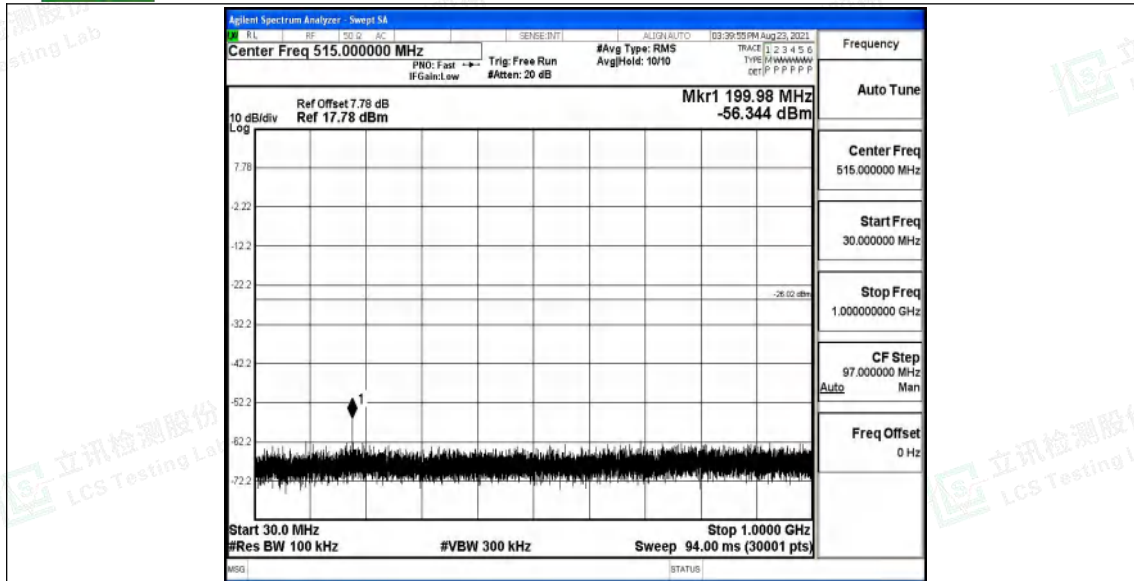


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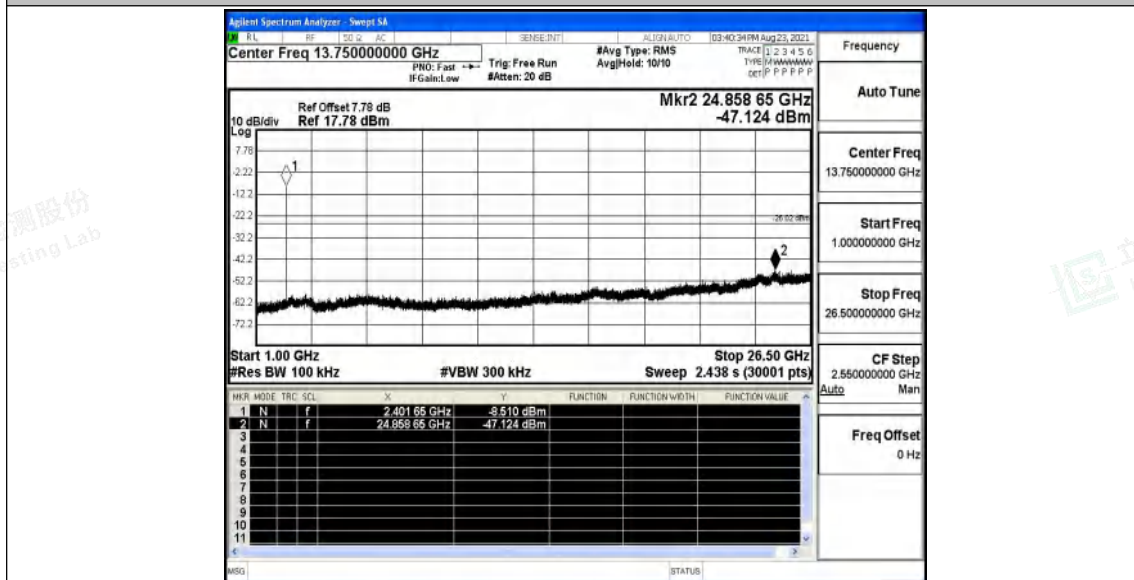
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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

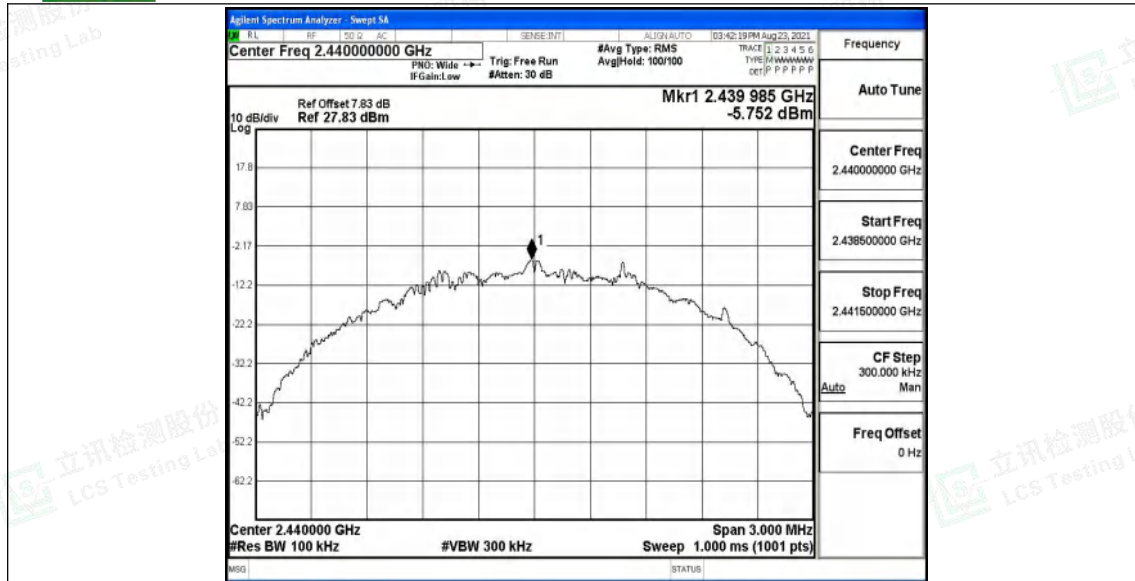


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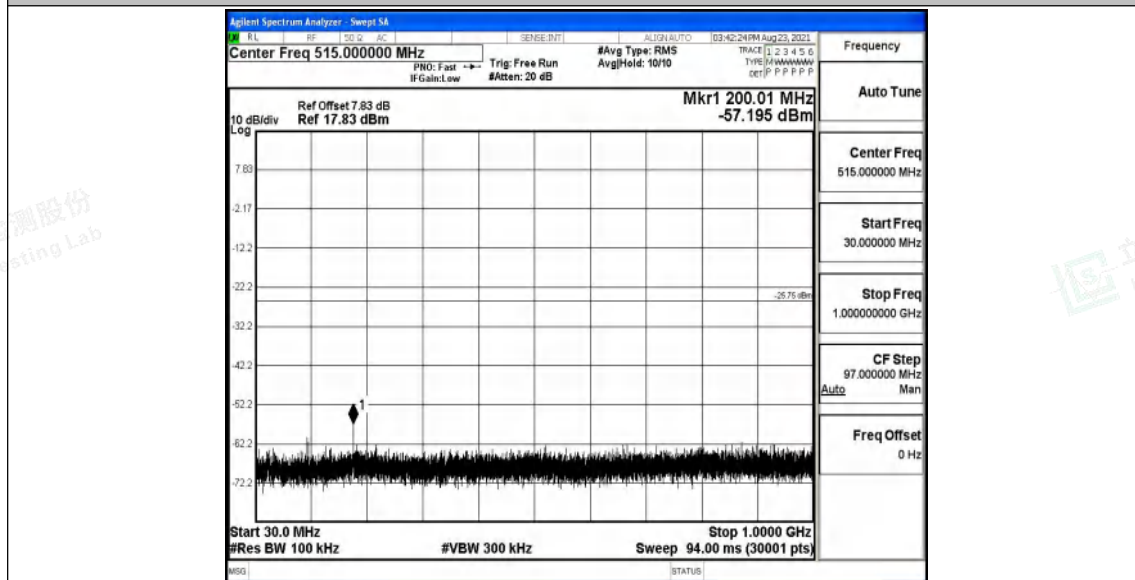
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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

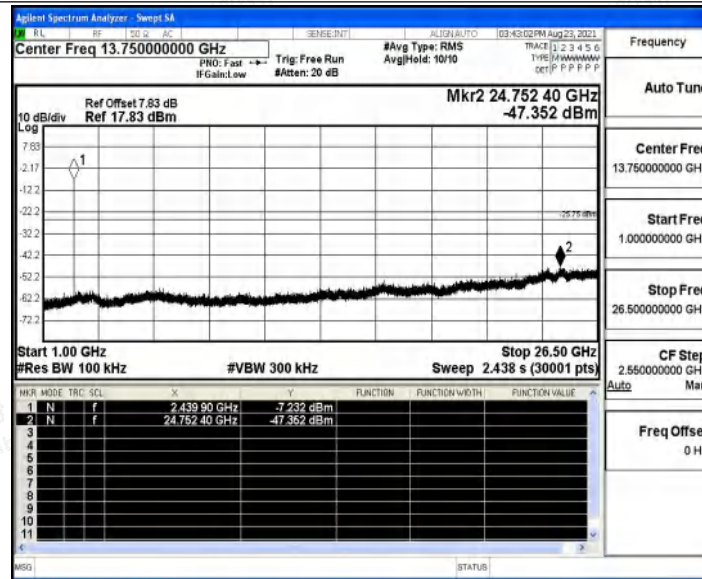


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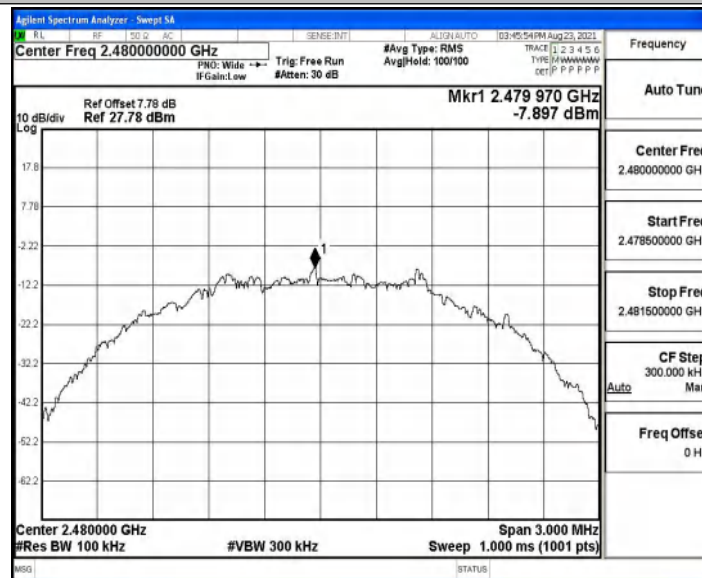
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000

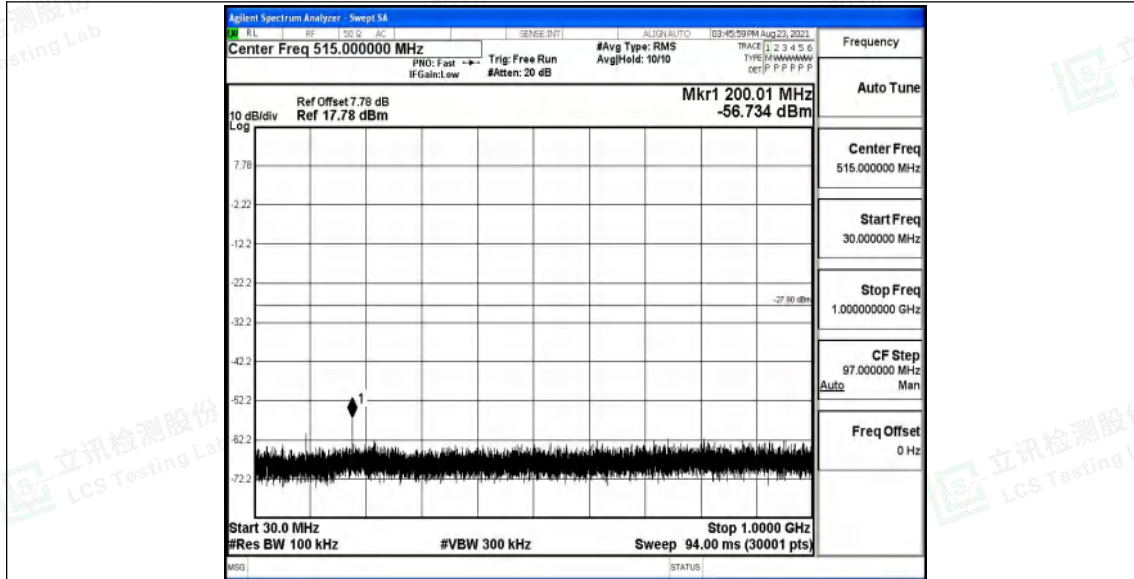


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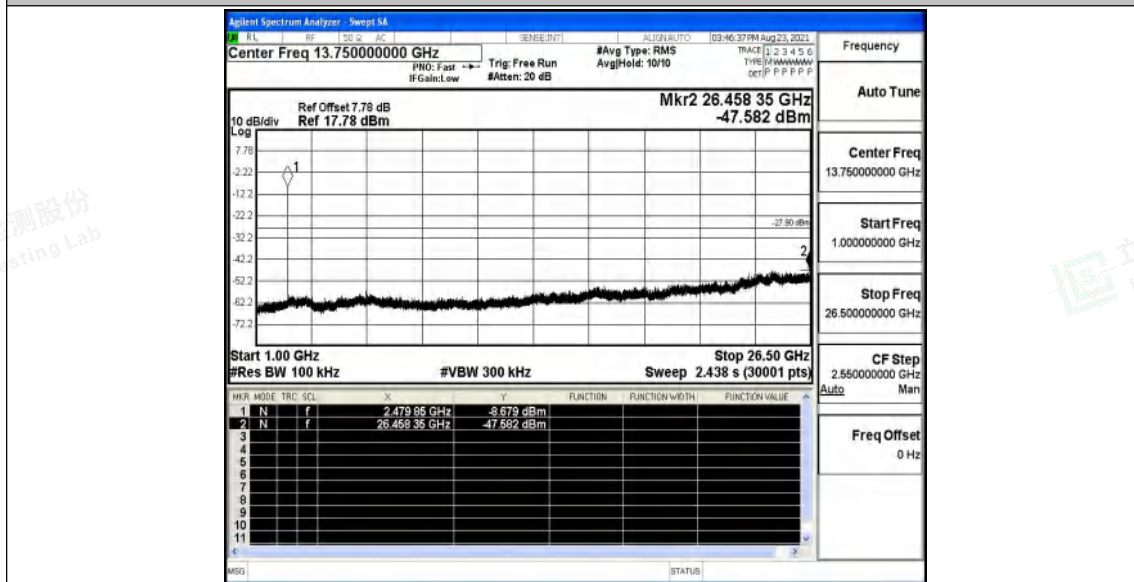
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BLE_2M_Ant1_2480_1000~26500



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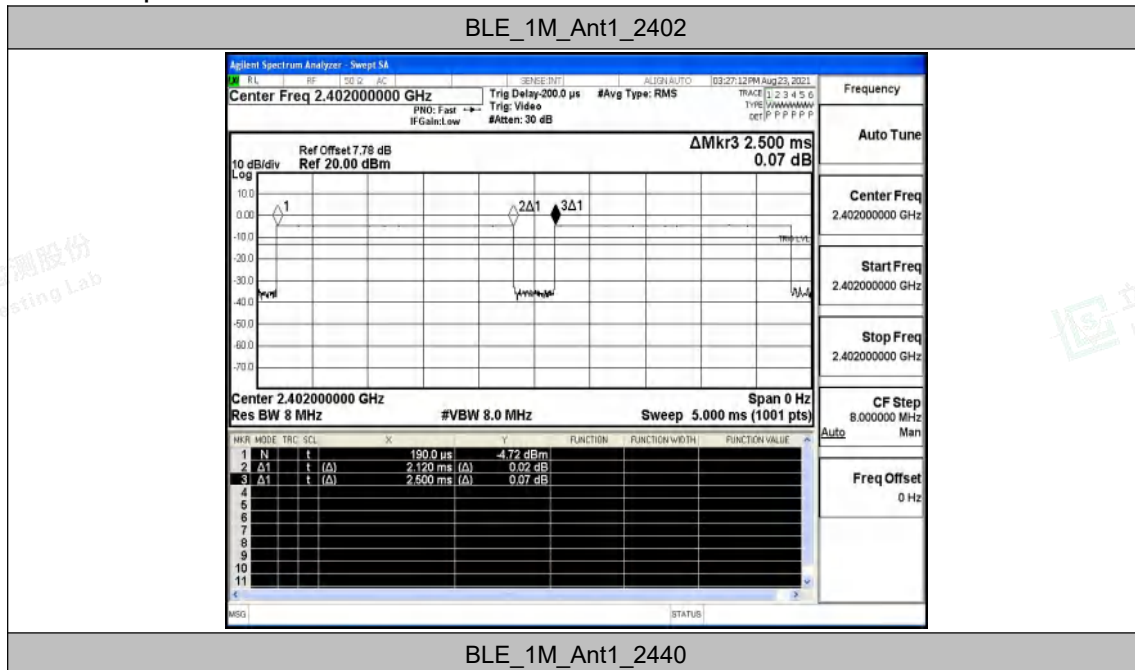


B.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	2.12	2.50	0.8480	84.80	0.72	---	PASS
		2440	2.13	2.50	0.8520	85.20	0.70	---	PASS
		2480	2.13	2.50	0.8520	85.20	0.70	---	PASS
BLE_2M	Ant1	2402	1.07	1.87	0.5722	57.22	2.42	---	PASS
		2440	1.07	1.88	0.5691	56.91	2.45	---	PASS
		2480	1.07	1.88	0.5691	56.91	2.45	---	PASS

Test Graphs

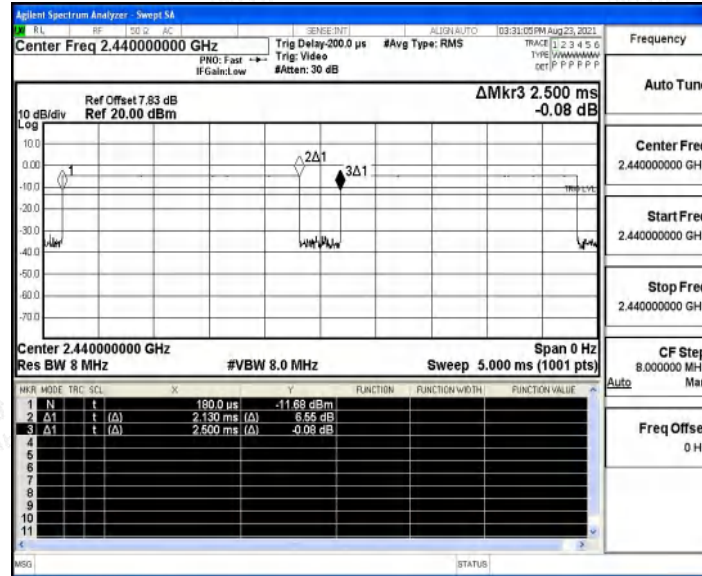


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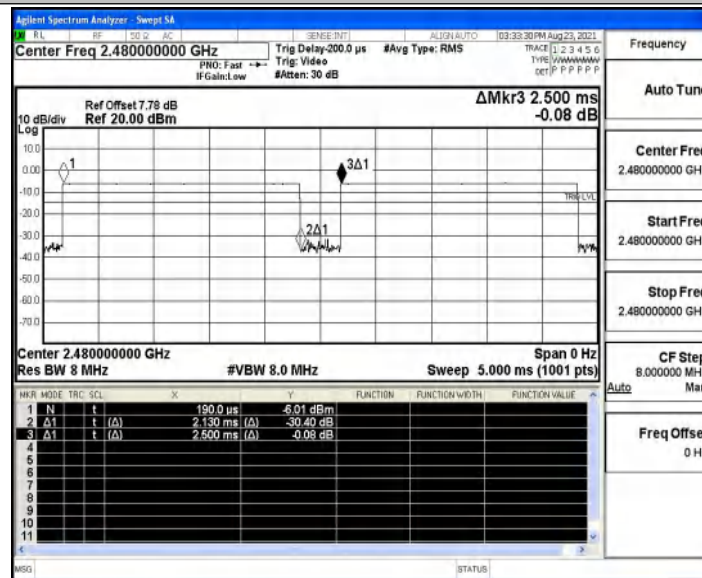
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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402

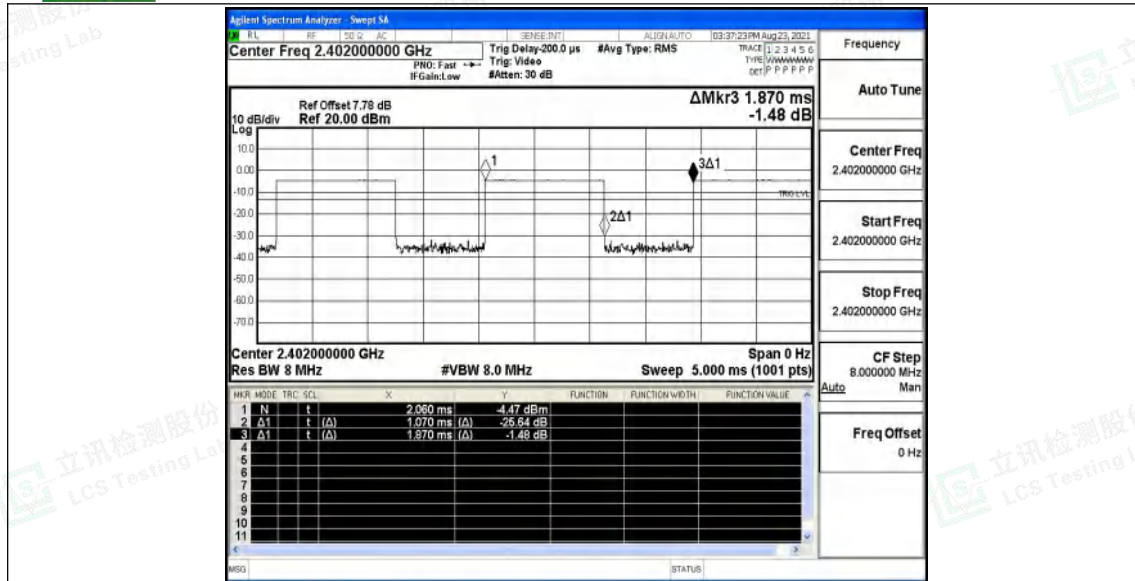


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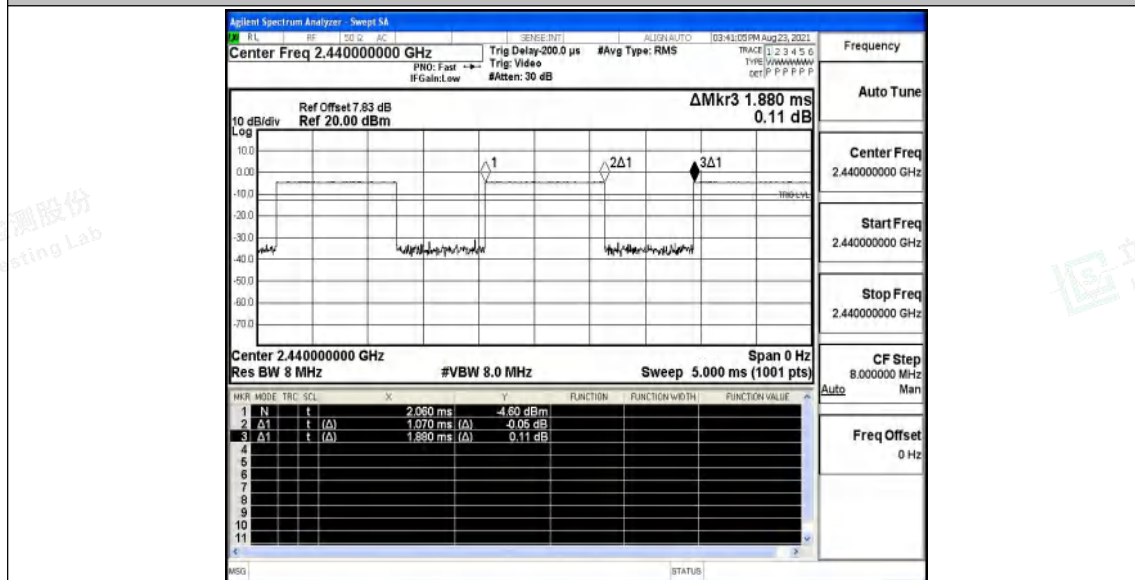
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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

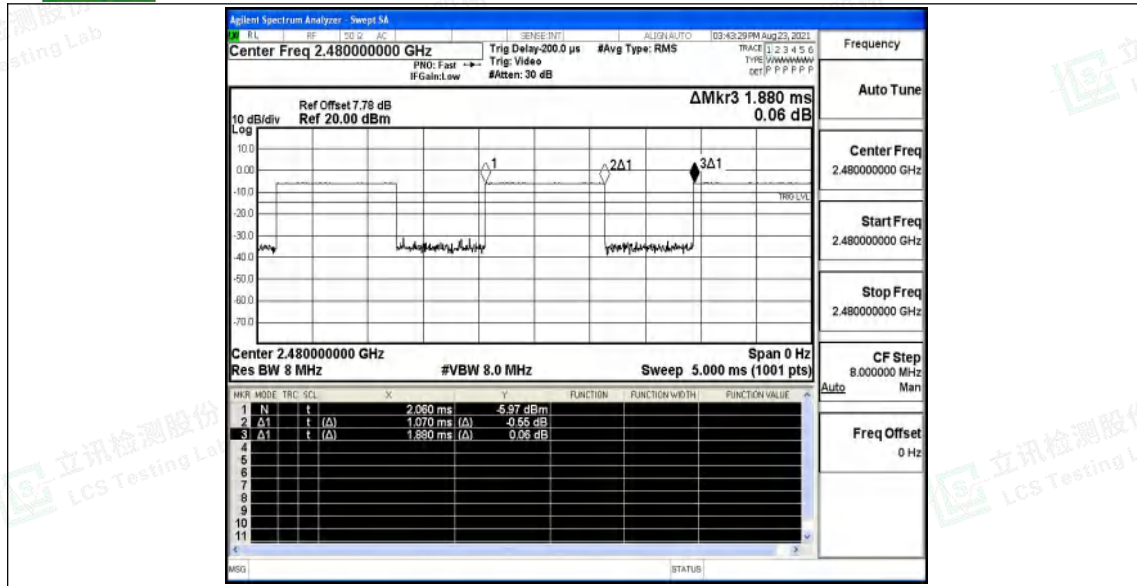


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B.7 Emissions in Restricted Bands

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	-49	≤-41.20	46.20	≤54	PASS
				AV	2381.690	-48.46	≤-41.20	46.74	≤54	PASS
				AV	2390.000	-48.63	≤-41.20	46.57	≤54	PASS
				Peak	2310.000	-41.59	≤-21.20	53.61	≤74	PASS
				Peak	2387.780	-39.03	≤-21.20	56.17	≤74	PASS
				Peak	2390.000	-41.08	≤-21.20	54.12	≤74	PASS
		High	2480	AV	2483.500	-48.08	≤-41.20	47.12	≤54	PASS
				AV	2494.320	-47.88	≤-41.20	47.32	≤54	PASS
				AV	2500.000	-48.08	≤-41.20	47.12	≤54	PASS
				Peak	2483.500	-41.66	≤-21.20	53.54	≤74	PASS
				Peak	2490.320	-38.7	≤-21.20	56.50	≤74	PASS
				Peak	2500.000	-41.78	≤-21.20	53.42	≤74	PASS
BLE_2M	Ant1	Low	2402	AV	2310.000	-48.73	≤-41.20	46.47	≤54	PASS
				AV	2383.160	-48.21	≤-41.20	46.99	≤54	PASS
				AV	2390.000	-48.3	≤-41.20	46.90	≤54	PASS
				Peak	2310.000	-42.2	≤-21.20	53.00	≤74	PASS
				Peak	2337.275	-39.05	≤-21.20	56.15	≤74	PASS
				Peak	2390.000	-43.13	≤-21.20	52.07	≤74	PASS
		High	2480	AV	2483.500	-47.56	≤-41.20	47.64	≤54	PASS
				AV	2483.520	-47.56	≤-41.20	47.64	≤54	PASS
				AV	2500.000	-47.66	≤-41.20	47.54	≤54	PASS
				Peak	2483.500	-39.72	≤-21.20	55.48	≤74	PASS
				Peak	2496.400	-38.5	≤-21.20	56.70	≤74	PASS
				Peak	2500.000	-40.98	≤-21.20	54.22	≤74	PASS

Note:

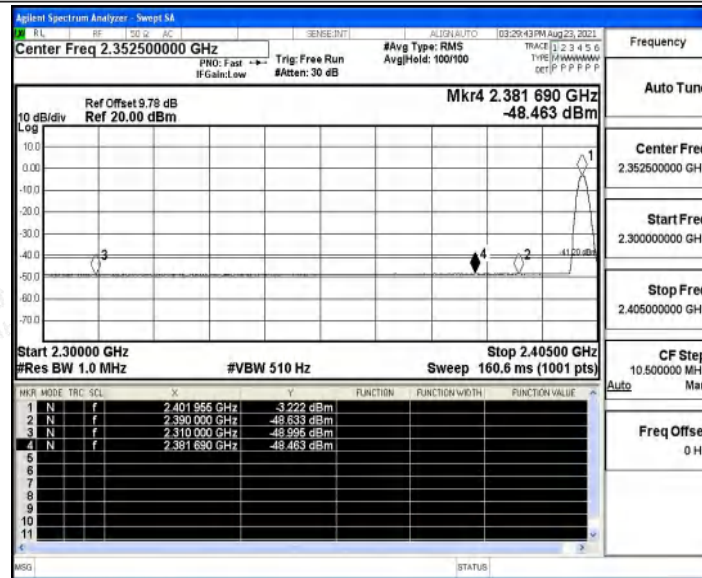
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



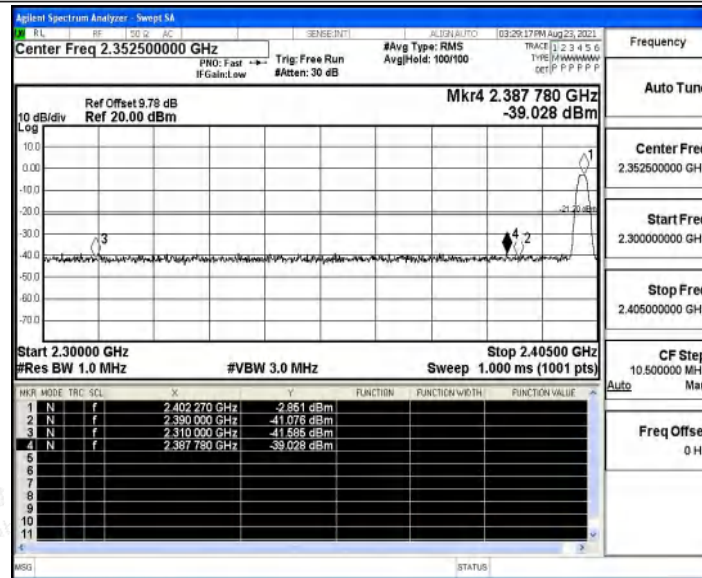


Test Graphs

BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV

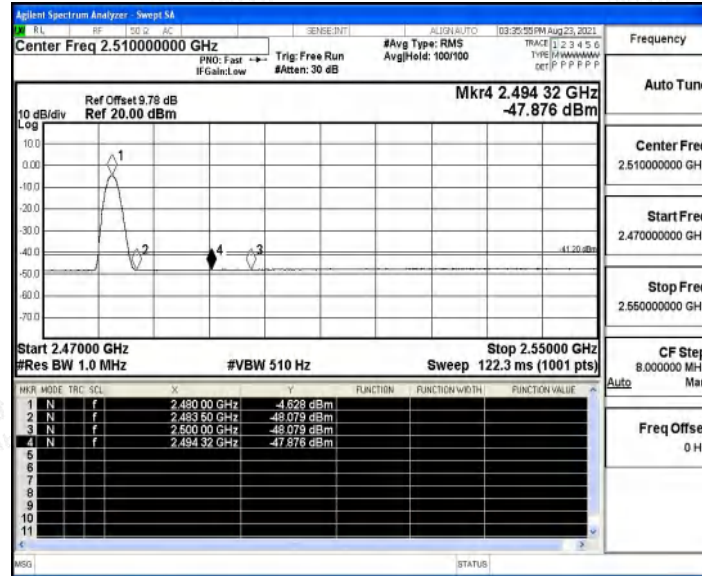


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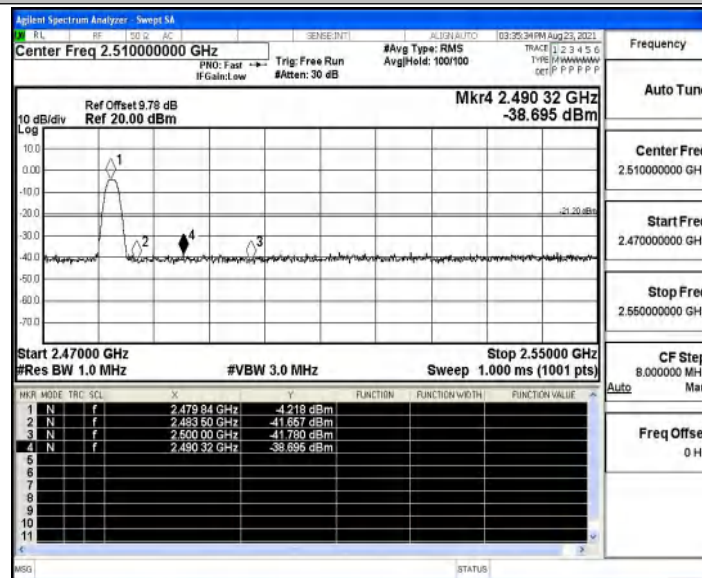
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BLE_1M_Ant1_High_2480_Peak



BLE_2M_Ant1_Low_2402_AV

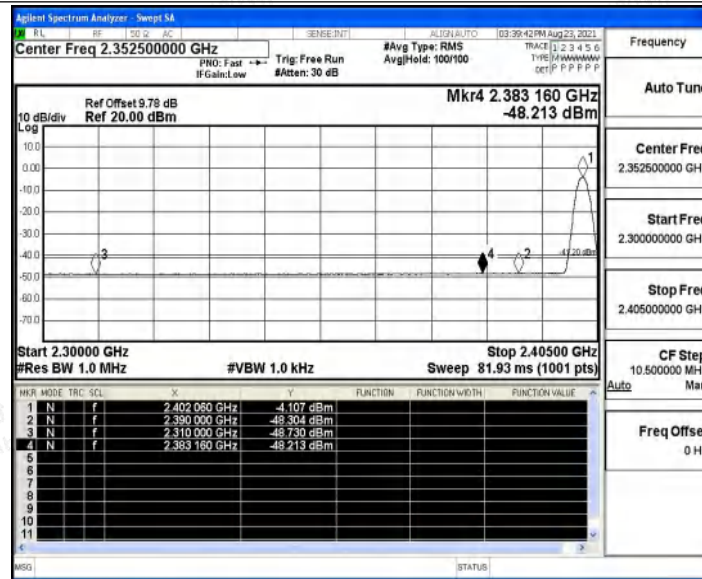


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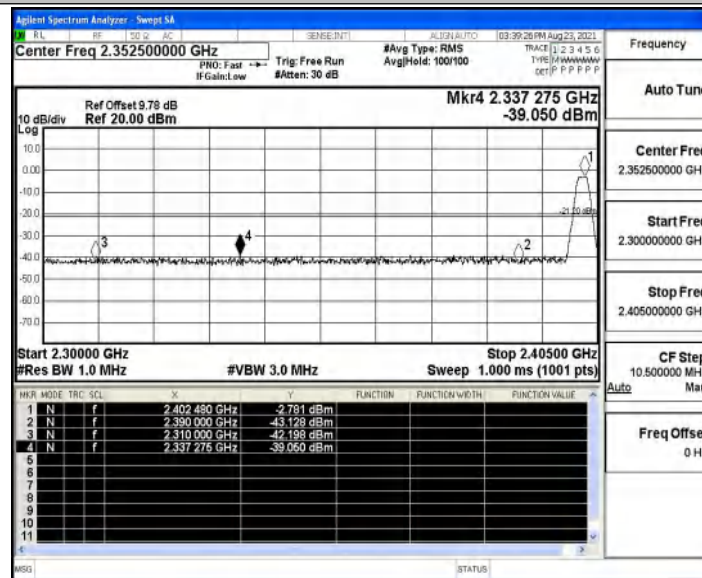
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BLE_2M_Ant1_Low_2402_Peak



BLE_2M_Ant1_High_2480_AV

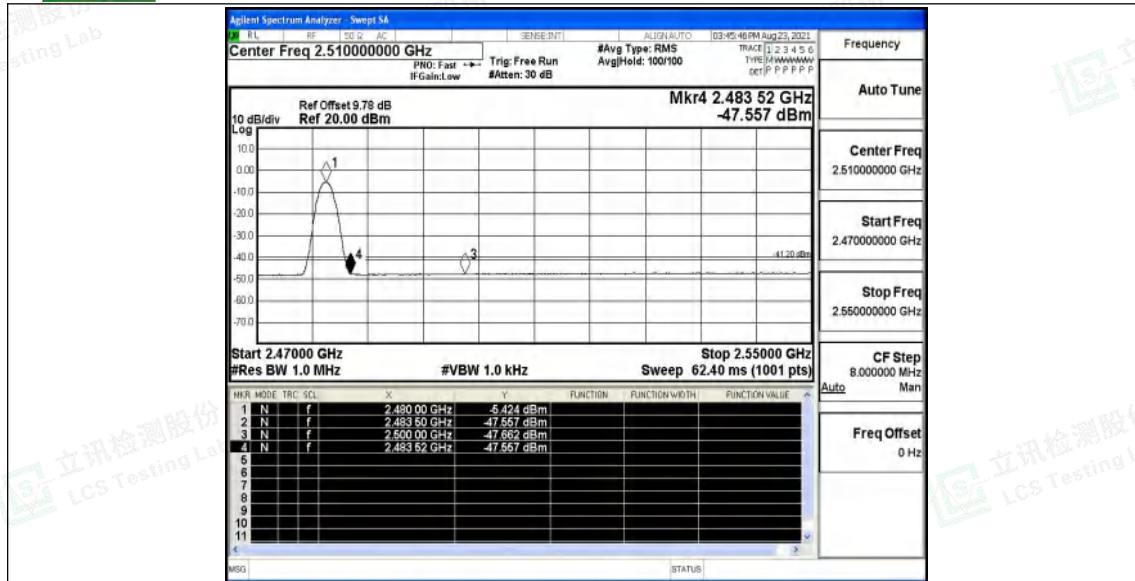


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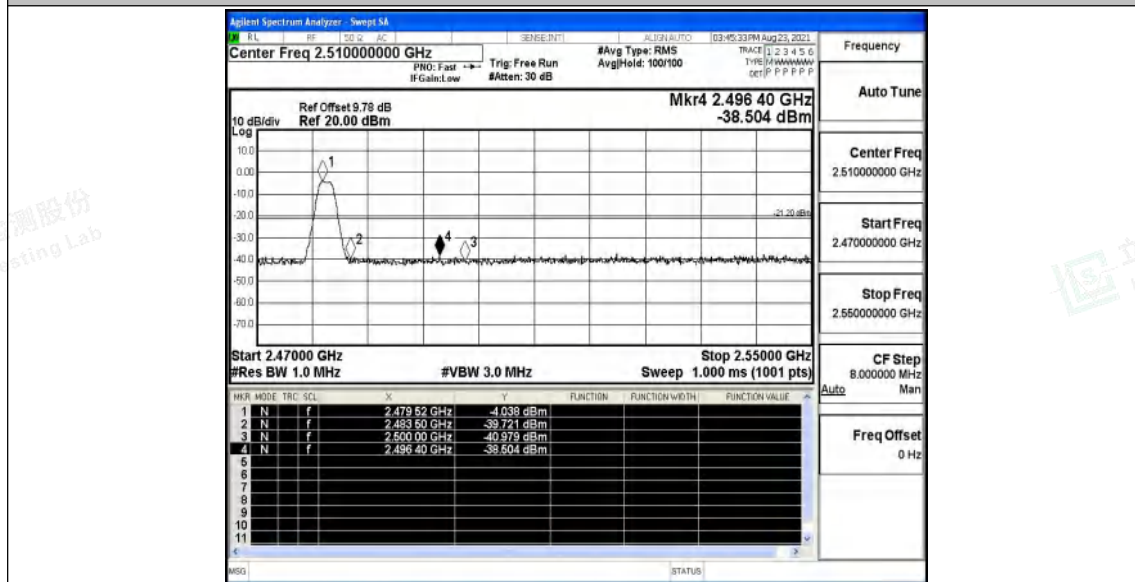
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BLE_2M_Ant1_High_2480_Peak



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