



Appendix B

RF Test Data for BLE (Conducted Measurement)

Product Name: Tablet PC

Test Model: T10

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan



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B.1 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant	2402	0.664	2401.680	2402.344	0.5	PASS
		2440	0.660	2439.680	2440.340	0.5	PASS
		2480	0.664	2479.680	2480.344	0.5	PASS
BLE_2M	Ant	2402	1.156	2401.440	2402.596	0.5	PASS
		2440	1.152	2439.440	2440.592	0.5	PASS
		2480	1.152	2479.440	2480.592	0.5	PASS



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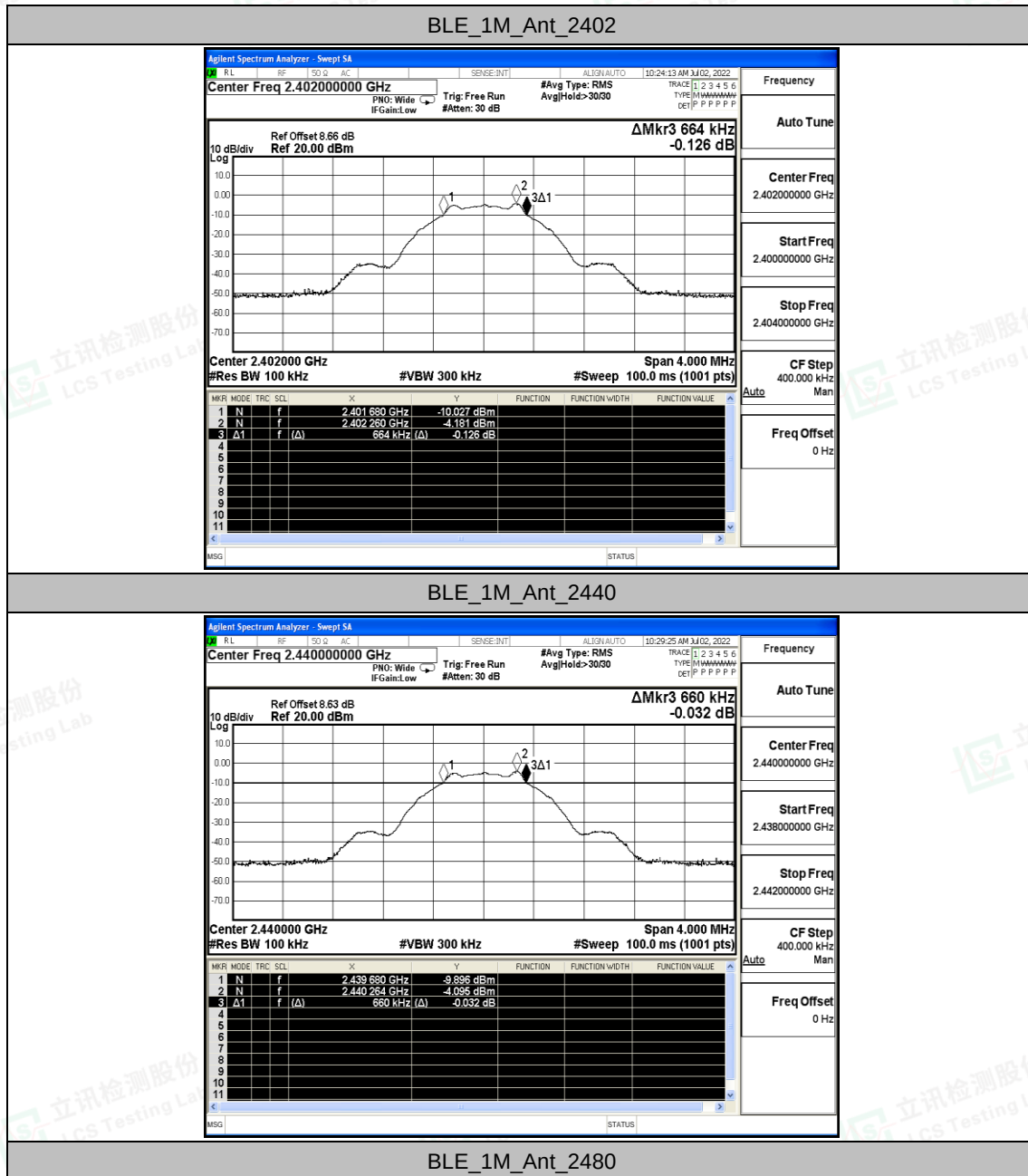
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Test Graphs

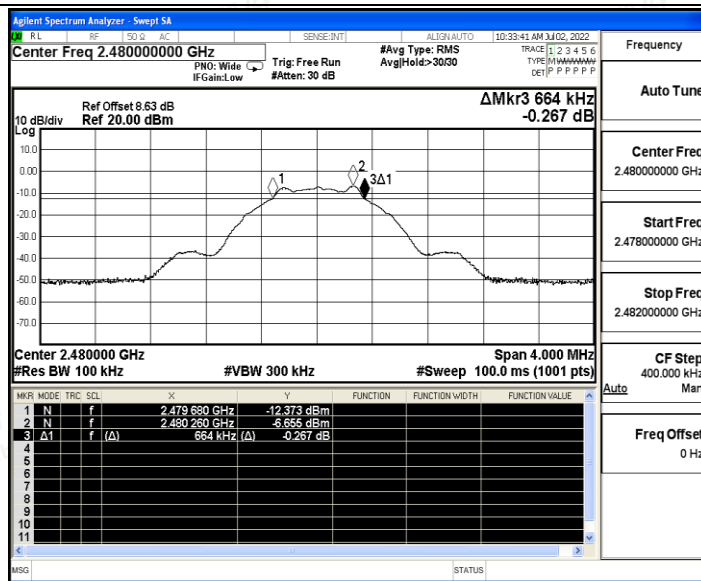


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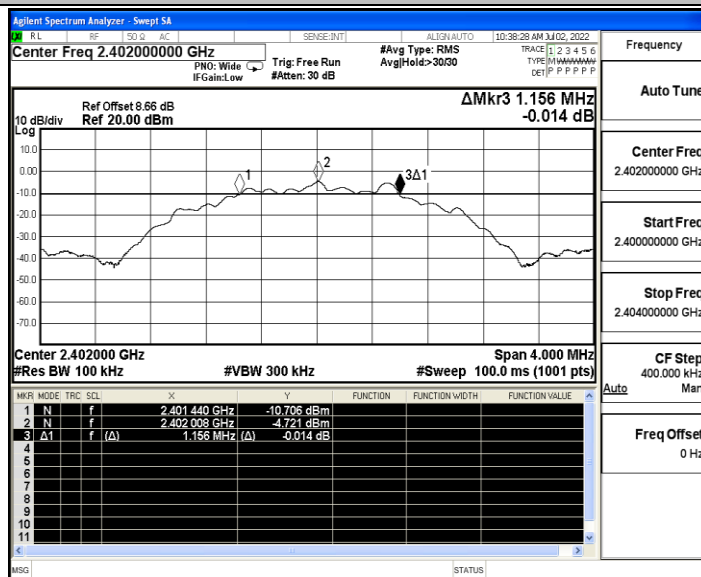
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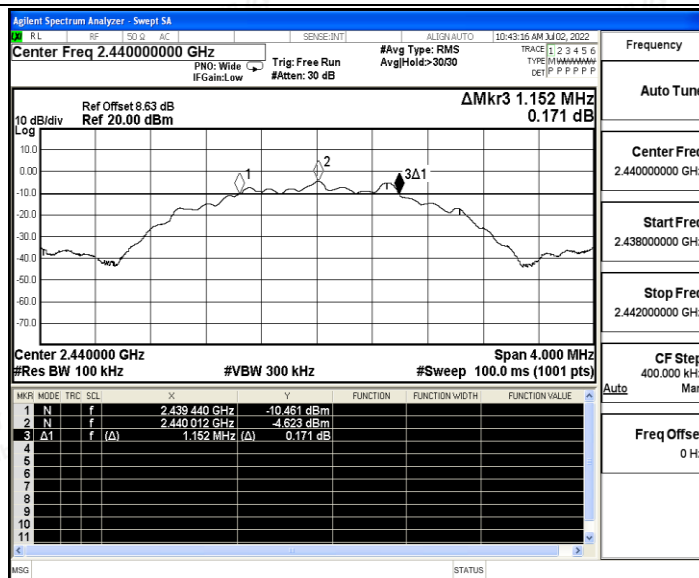


BLE_2M_Ant_2402

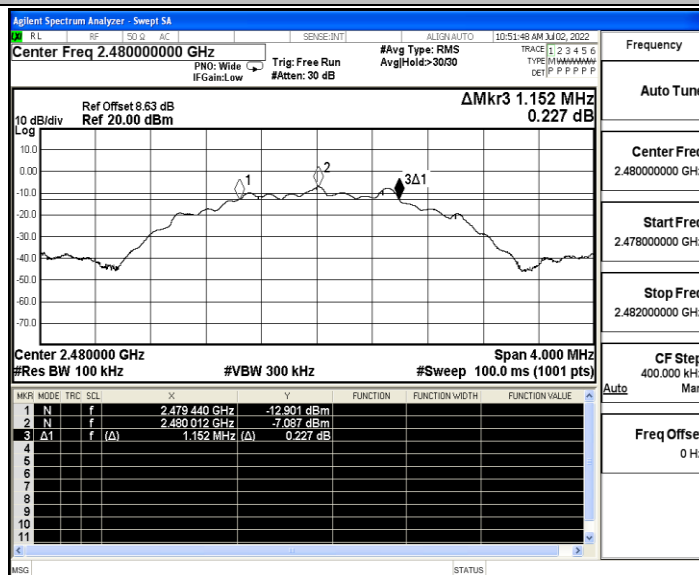


BLE_2M_Ant_2440





BLE_2M_Ant_2480



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B.2 Maximum conducted output power

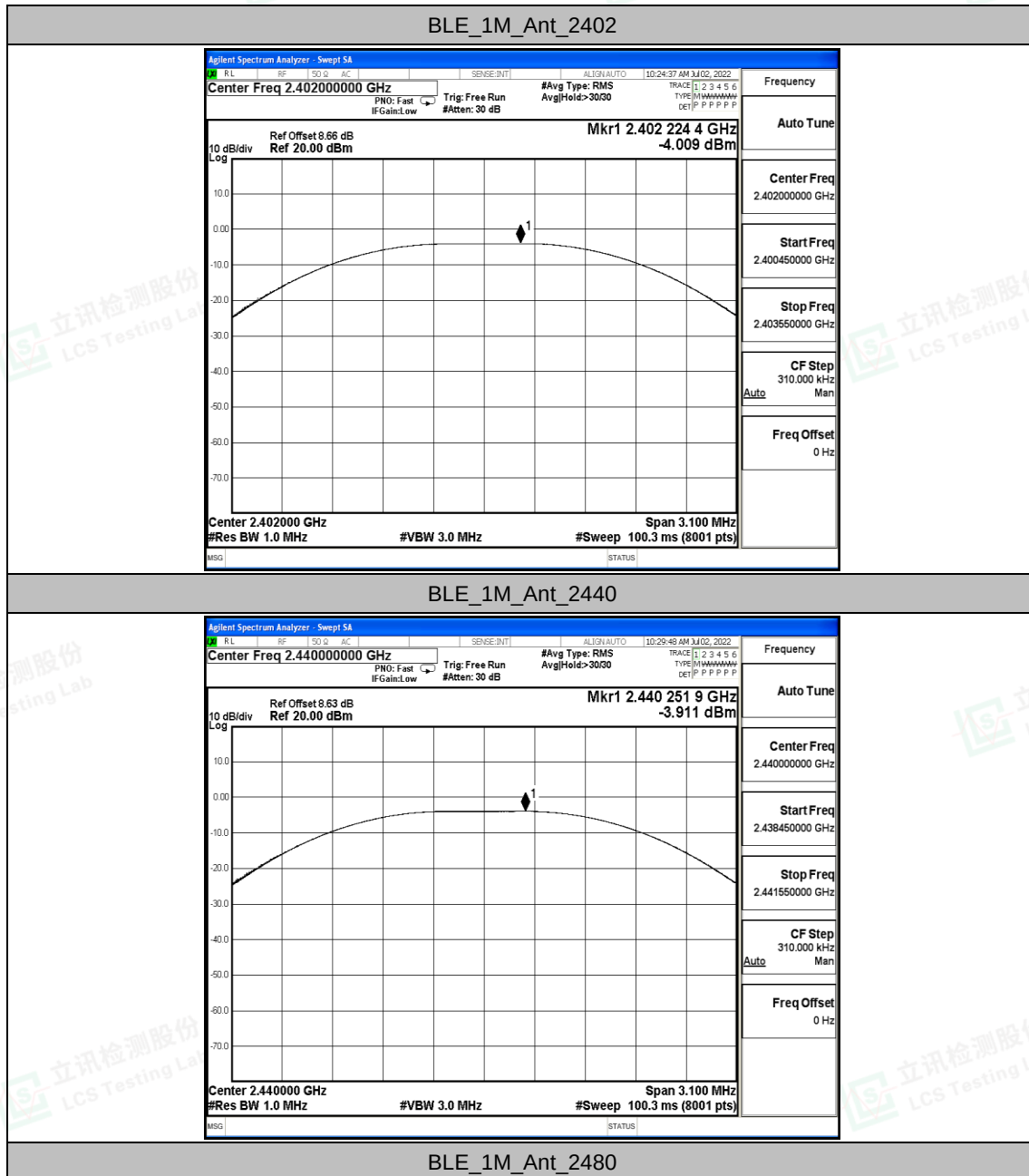
Test Result

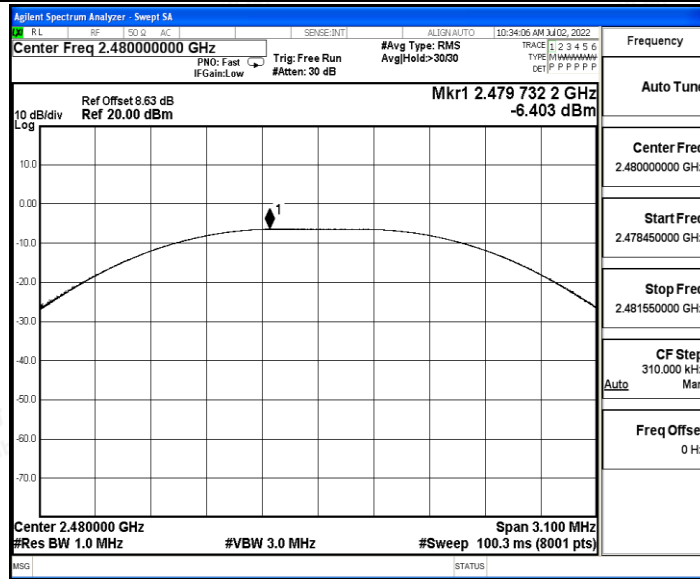
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant	2402	-4.01	≤30	PASS
		2440	-3.91	≤30	PASS
		2480	-6.4	≤30	PASS
BLE_2M	Ant	2402	-3.86	≤30	PASS
		2440	-3.85	≤30	PASS
		2480	-6.23	≤30	PASS



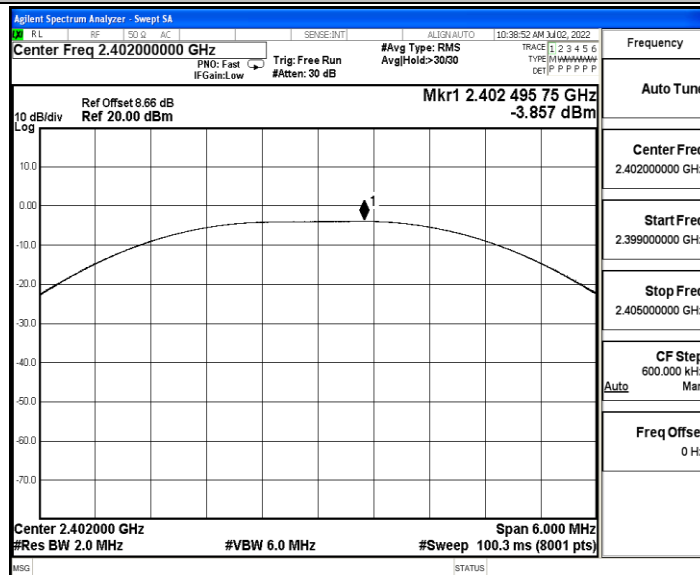


Test Graphs



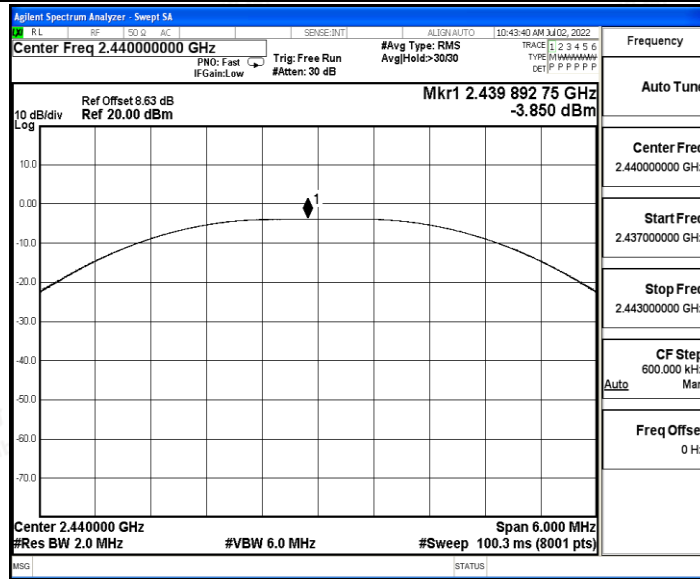


BLE_2M_Ant_2402

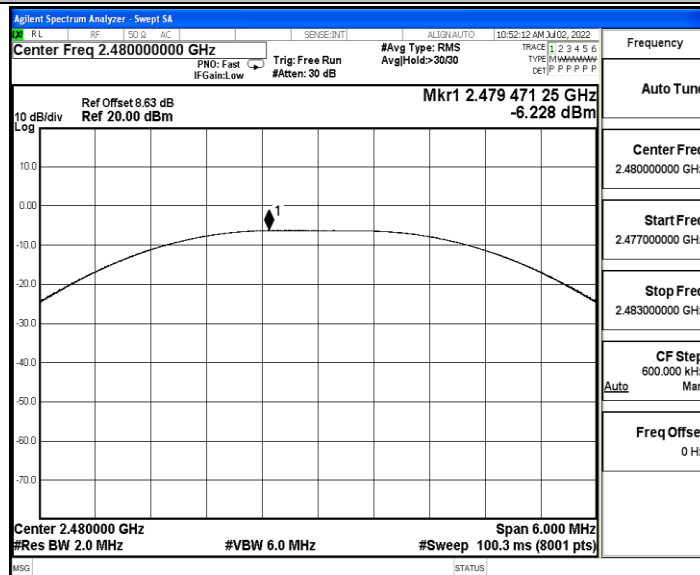


BLE_2M_Ant_2440





BLE_2M_Ant_2480





B.3 Maximum power spectral density

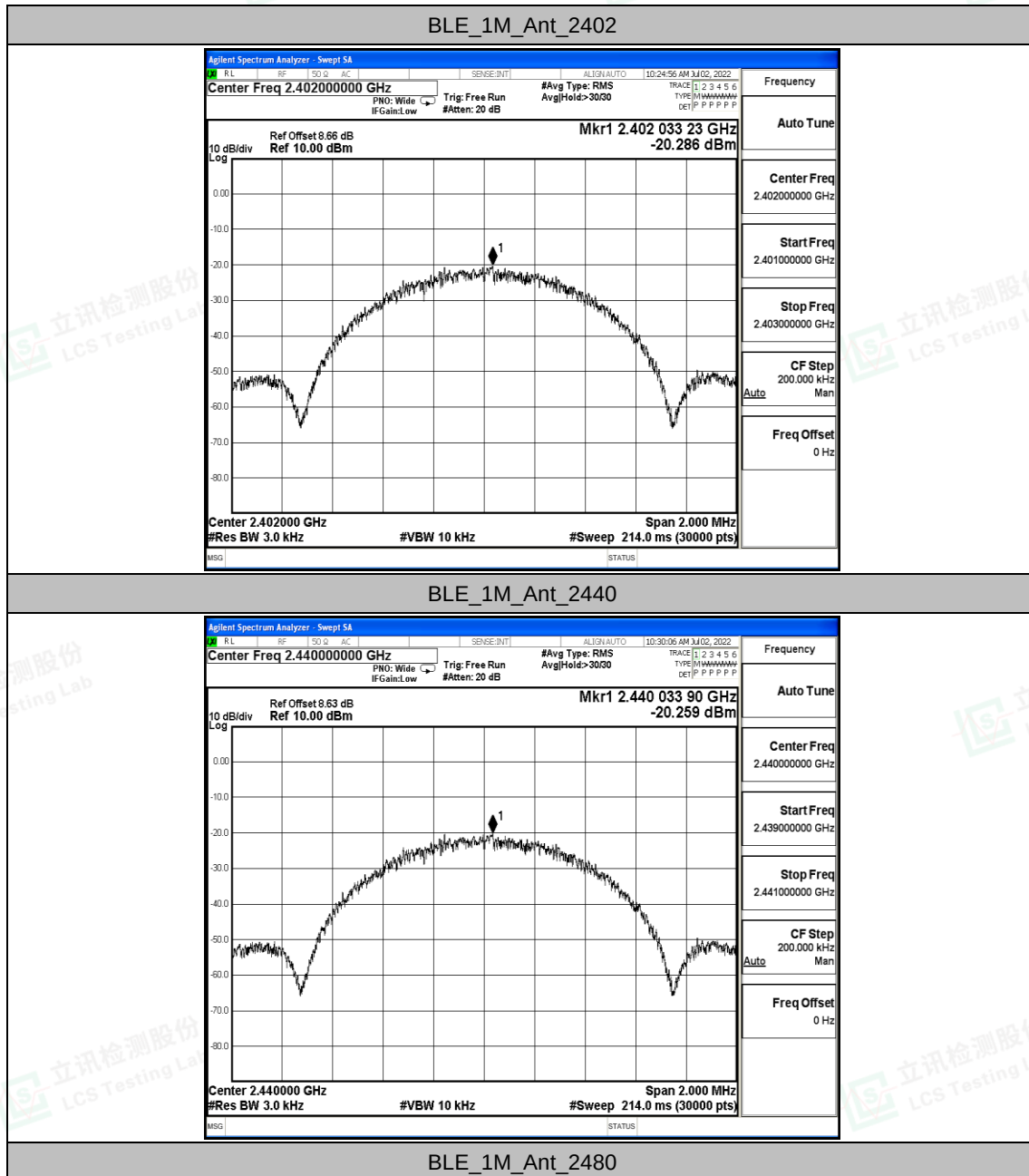
Test Result

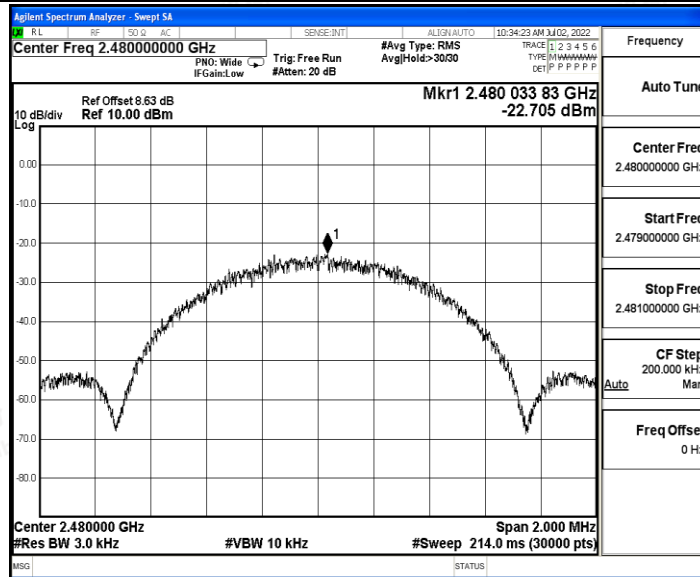
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant	2402	-20.29	≤8.00	PASS
		2440	-20.26	≤8.00	PASS
		2480	-22.71	≤8.00	PASS
BLE_2M	Ant	2402	-22.55	≤8.00	PASS
		2440	-22.56	≤8.00	PASS
		2480	-24.83	≤8.00	PASS



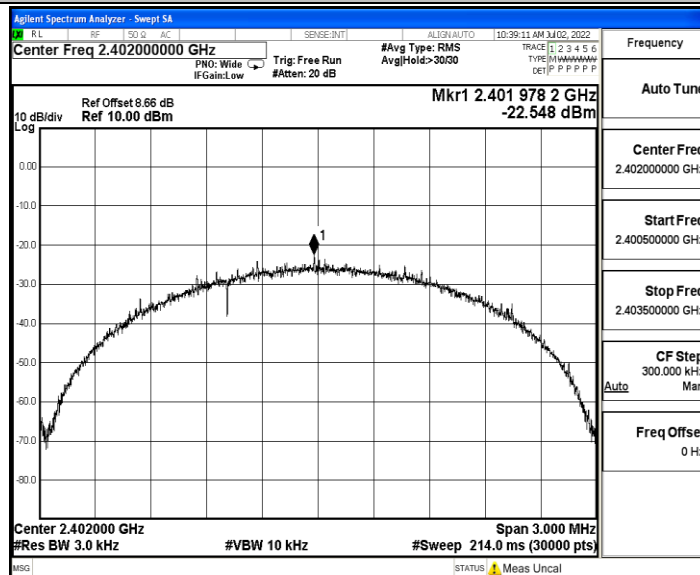


Test Graphs



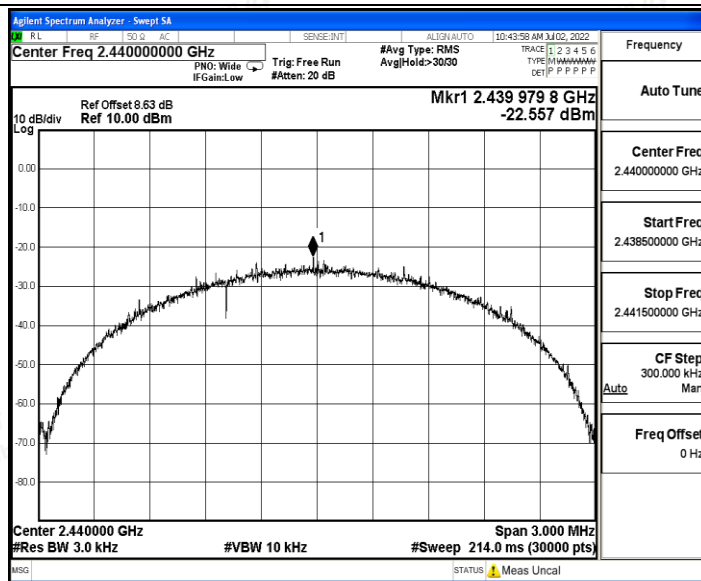


BLE_2M_Ant_2402

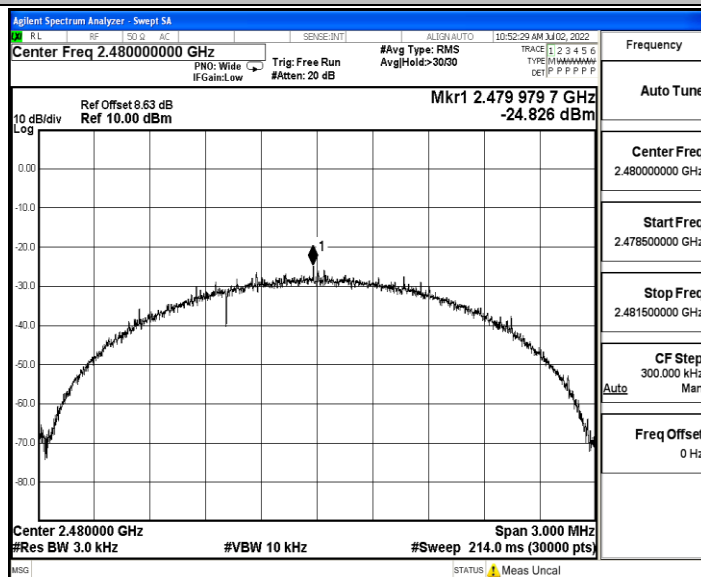


BLE_2M_Ant_2440





BLE_2M_Ant_2480





B.4 Band edge measurements

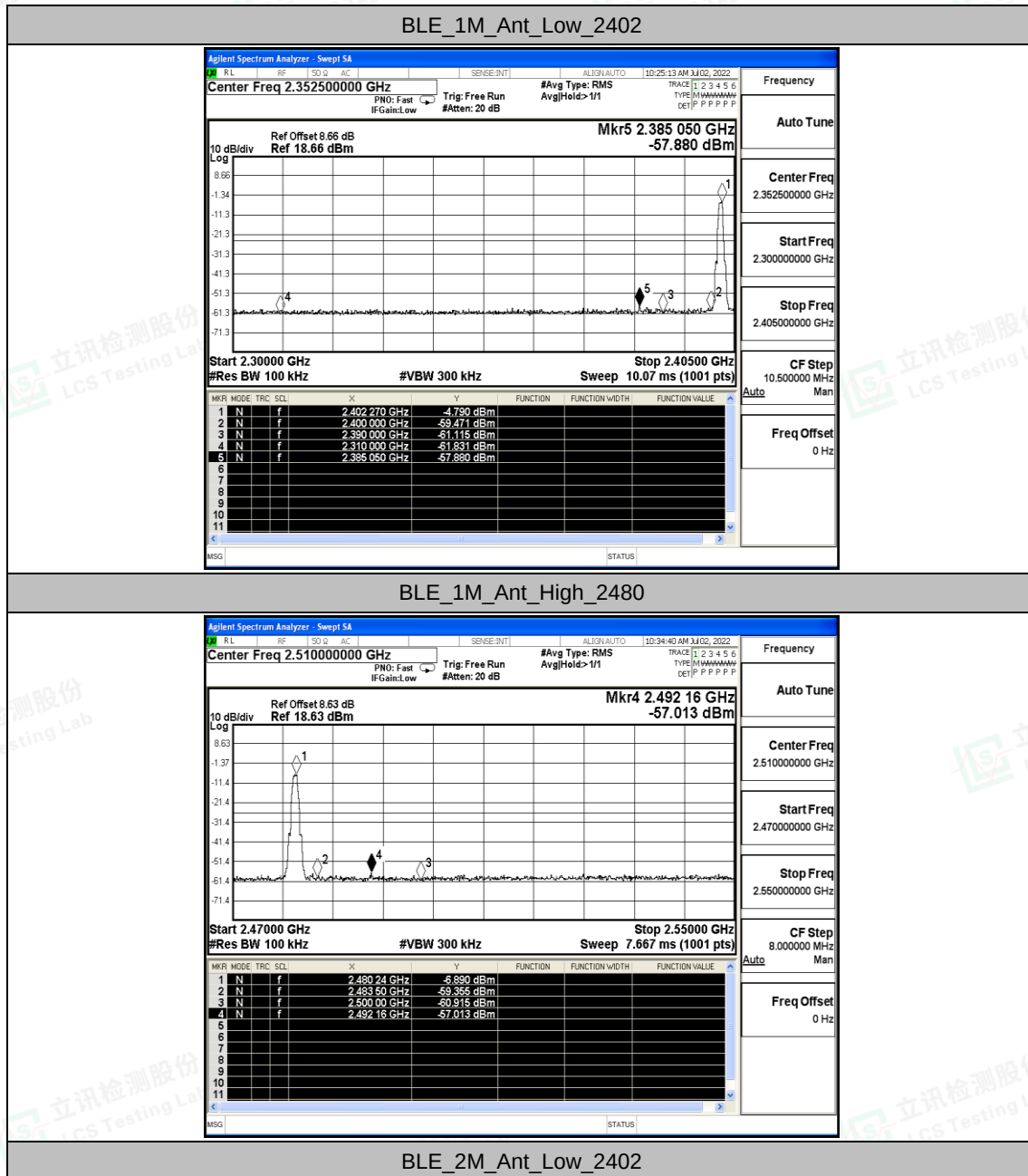
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant	Low	2402	-4.79	-57.88	≤ -24.79	PASS
		High	2480	-6.89	-57.01	≤ -26.89	PASS
BLE_2M	Ant	Low	2402	-5.01	-36.37	≤ -25.01	PASS
		High	2480	-7.27	-57.24	≤ -27.27	PASS





Test Graphs

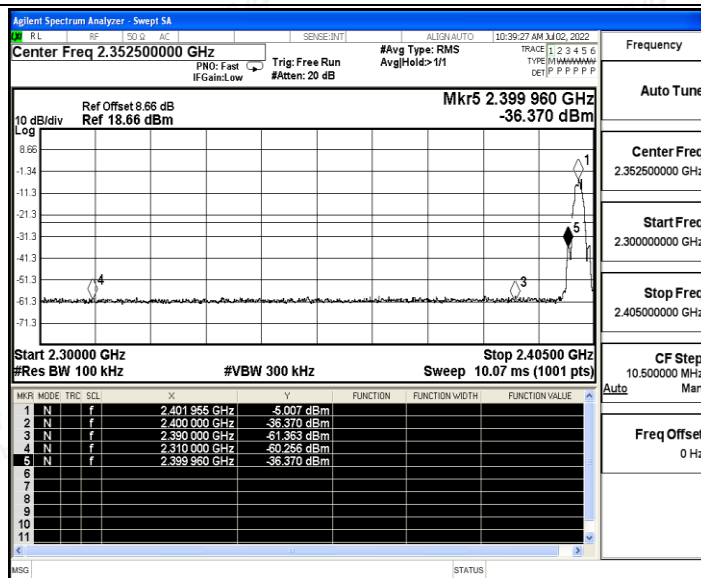


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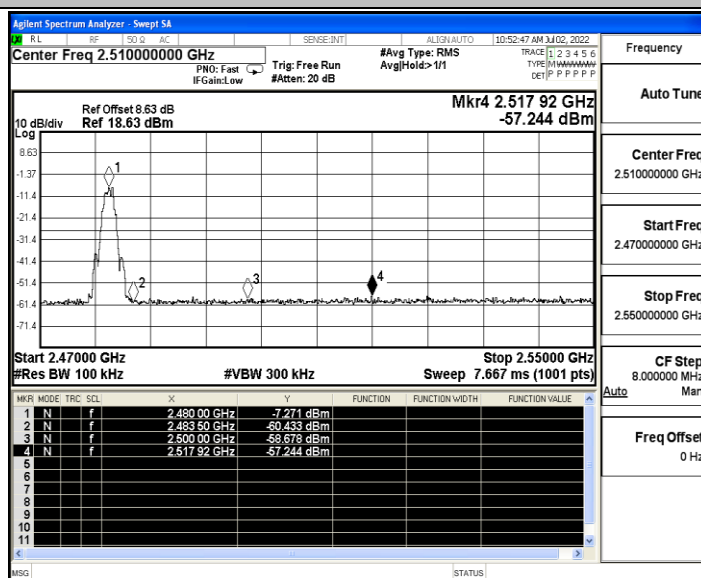
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BLE_2M_Ant_High_2480



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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	Ant	2402	Reference	-4.19	-4.19	---	PASS
			30~1000	-4.19	-58.64	≤-24.19	PASS
			1000~26500	-4.19	-45.68	≤-24.19	PASS
		2440	Reference	-4.12	-4.12	---	PASS
			30~1000	-4.12	-58.84	≤-24.12	PASS
			1000~26500	-4.12	-46.07	≤-24.12	PASS
		2480	Reference	-6.83	-6.83	---	PASS
			30~1000	-6.83	-58.77	≤-26.83	PASS
			1000~26500	-6.83	-46.08	≤-26.83	PASS
BLE_2M	Ant	2402	Reference	-4.81	-4.81	---	PASS
			30~1000	-4.81	-59.26	≤-24.81	PASS
			1000~26500	-4.81	-45.32	≤-24.81	PASS
		2440	Reference	-4.61	-4.61	---	PASS
			30~1000	-4.61	-58.33	≤-24.61	PASS
			1000~26500	-4.61	-45.98	≤-24.61	PASS
		2480	Reference	-7.33	-7.33	---	PASS
			30~1000	-7.33	-58.99	≤-27.33	PASS
			1000~26500	-7.33	-45.95	≤-27.33	PASS



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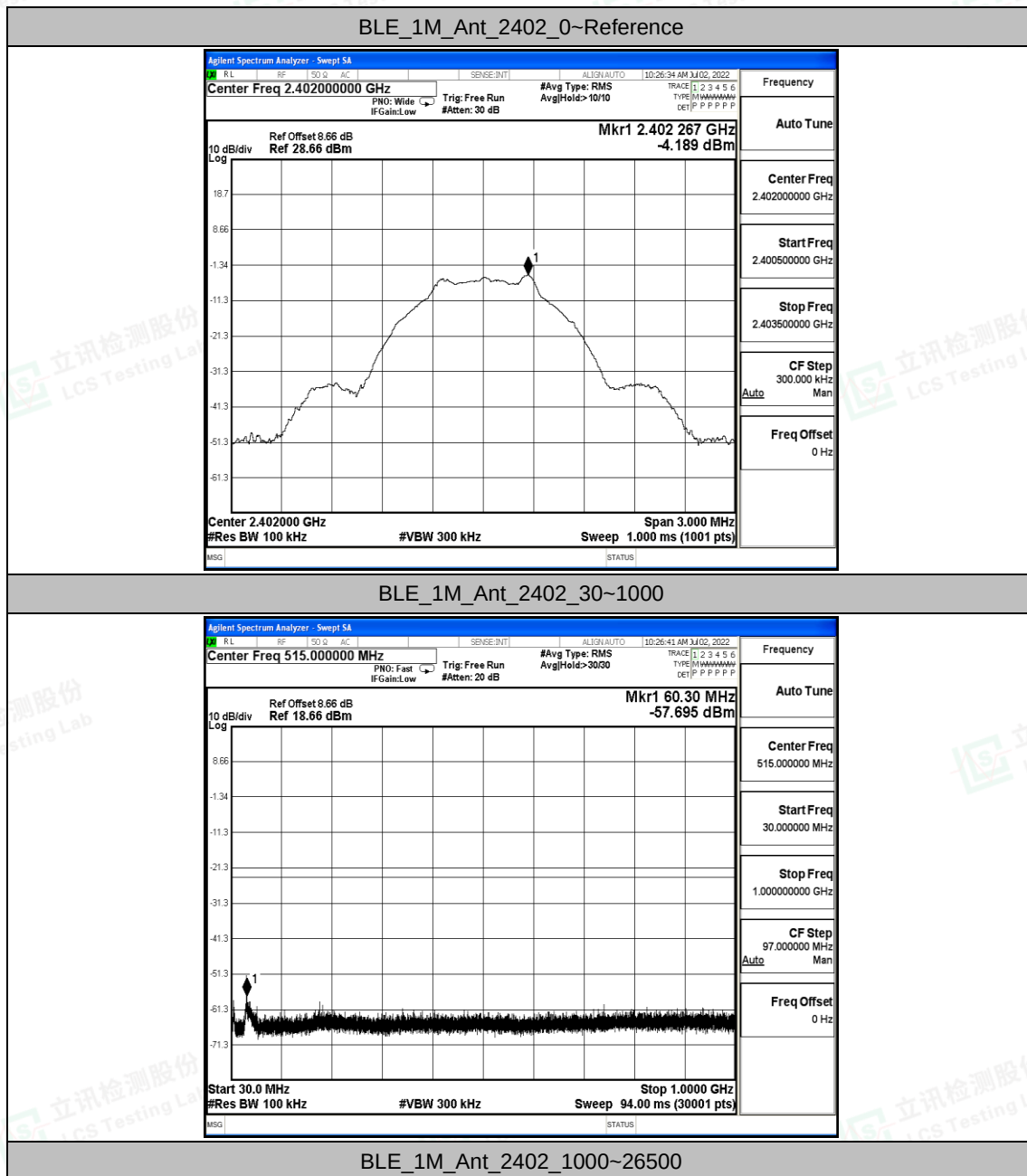
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Test Graphs

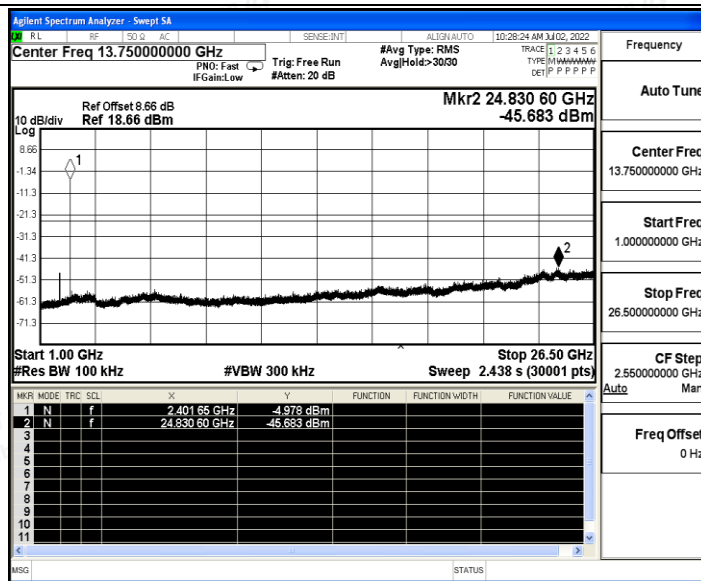


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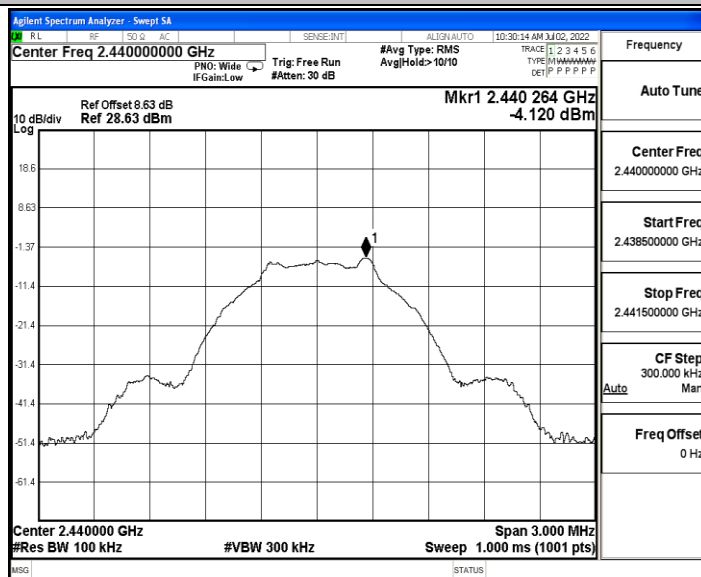
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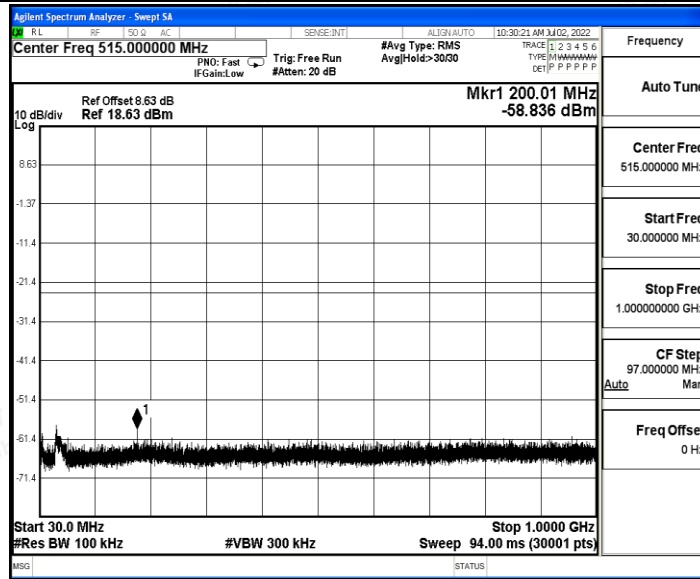


BLE_1M_Ant_2440_0~Reference

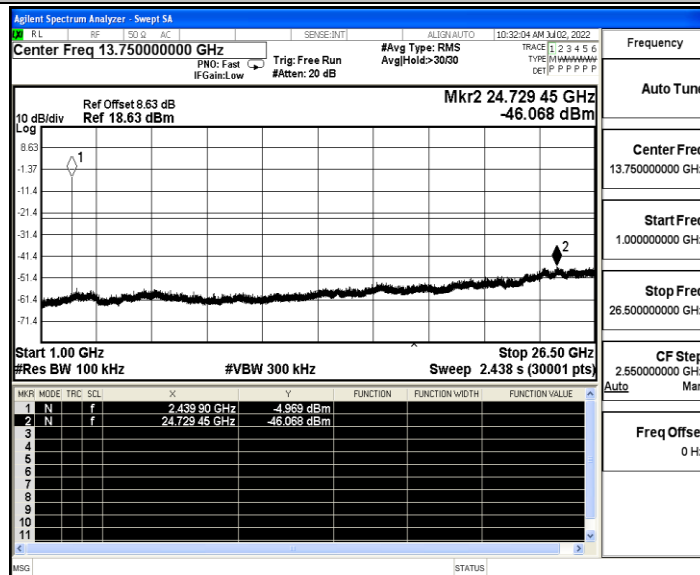


BLE_1M_Ant_2440_30~1000



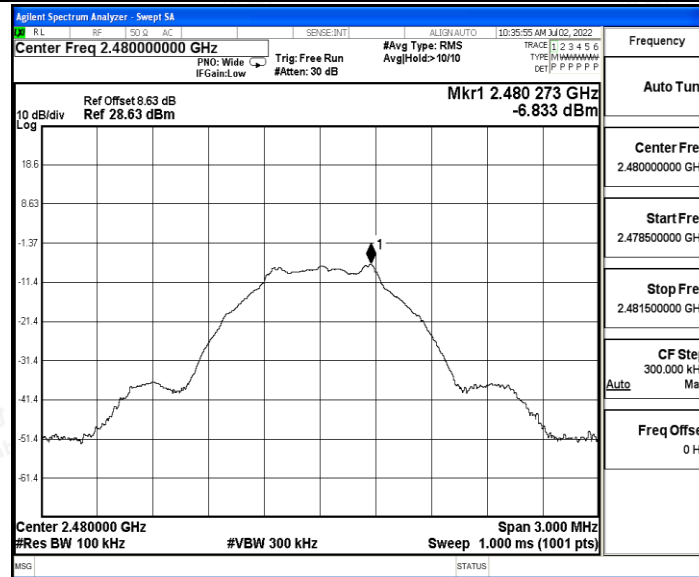


BLE_1M_Ant_2440_1000~26500

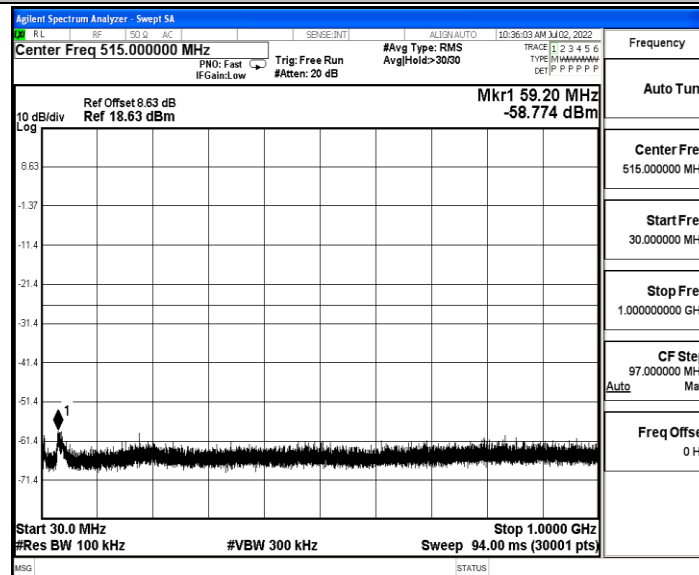


BLE_1M_Ant_2480_0~Reference





BLE_1M_Ant_2480_30~1000



BLE_1M_Ant_2480_1000~26500

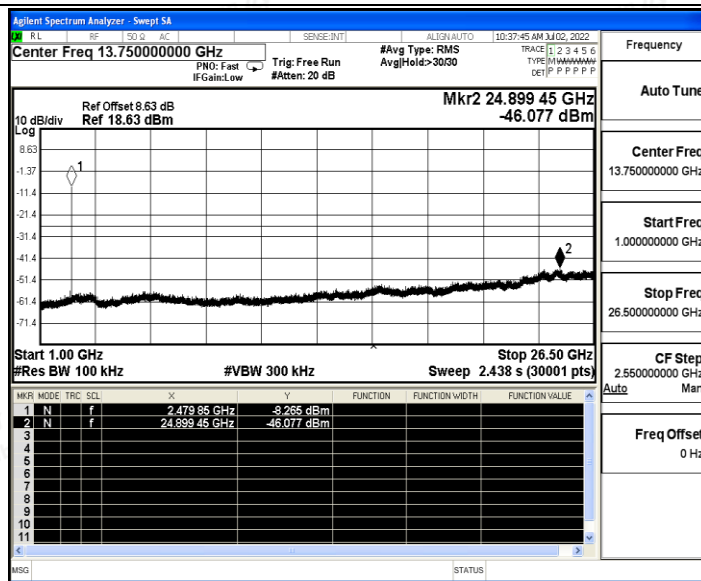


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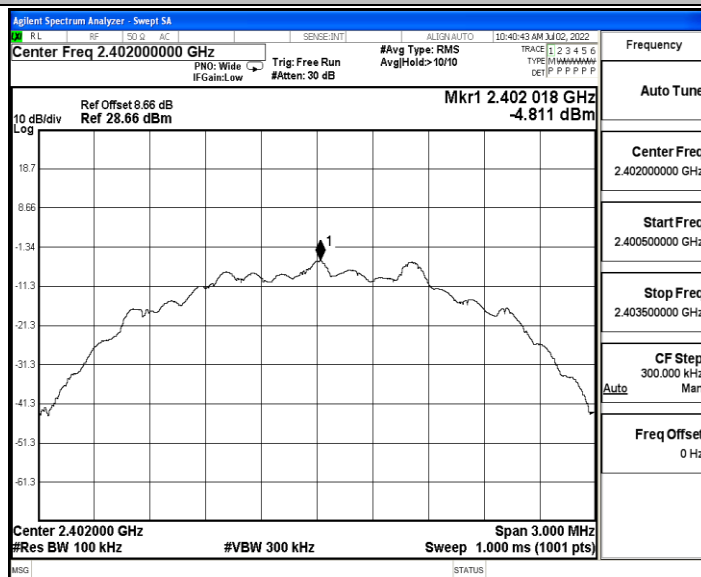
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BLE_2M_Ant_2402_0~Reference



BLE_2M_Ant_2402_30~1000

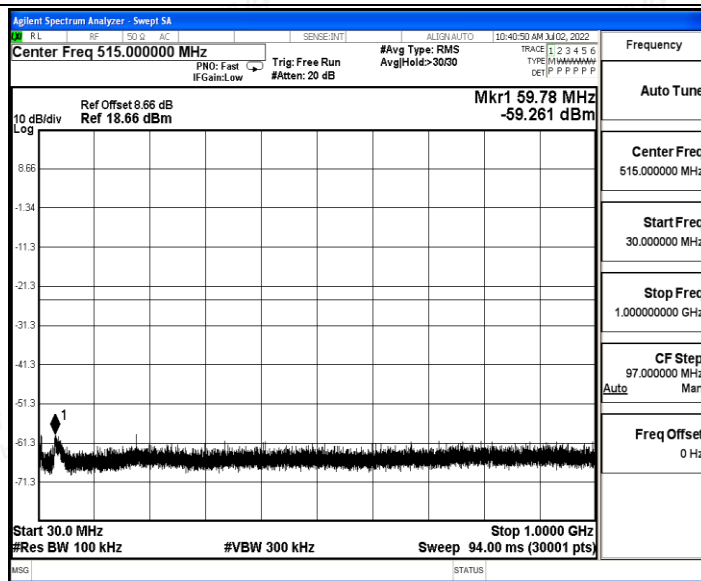


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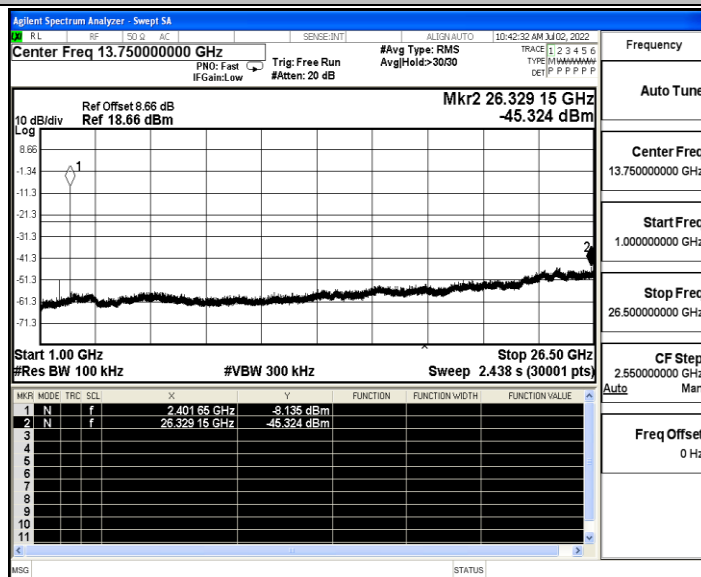
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BLE_2M_Ant_2402_1000~26500



BLE_2M_Ant_2440_0~Reference

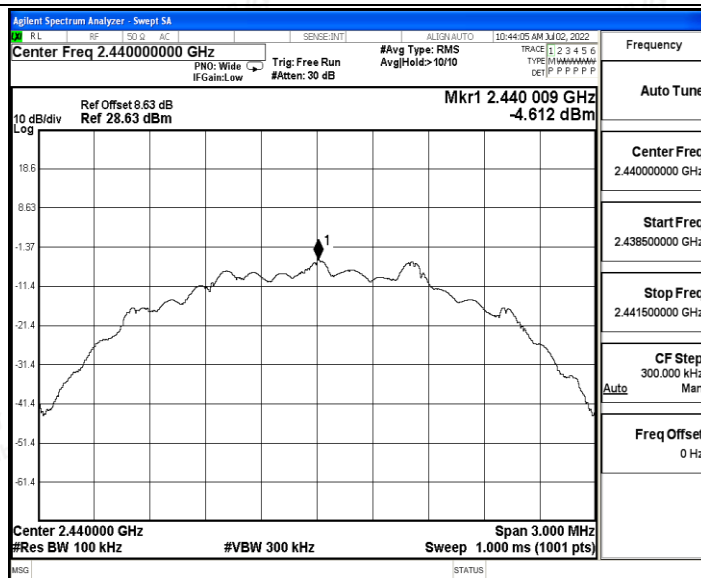


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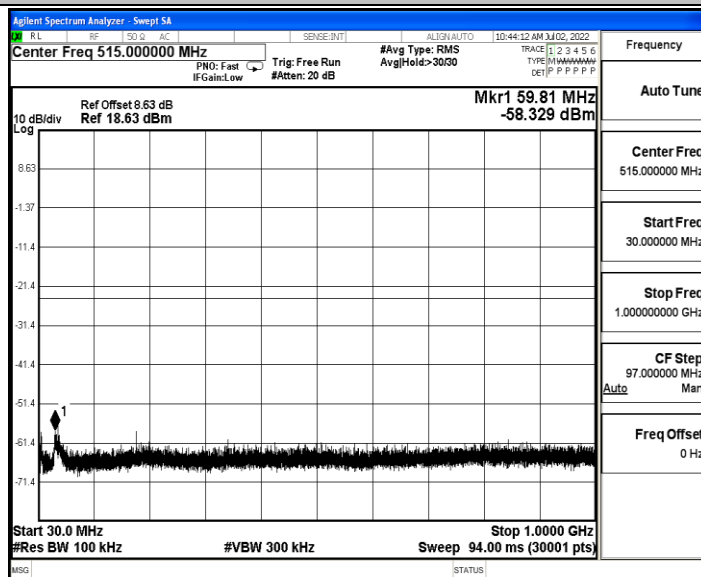
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BLE_2M_Ant_2440_30~1000



BLE_2M_Ant_2440_1000~26500

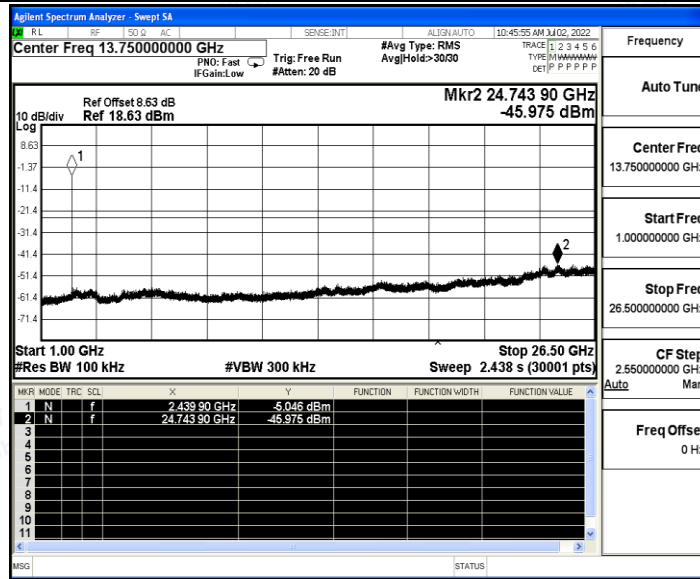


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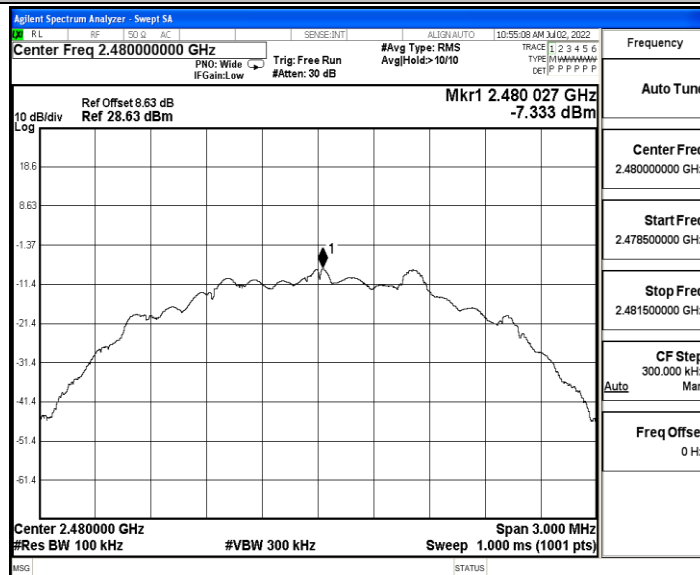
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BLE_2M_Ant_2480_0~Reference



BLE_2M_Ant_2480_30~1000

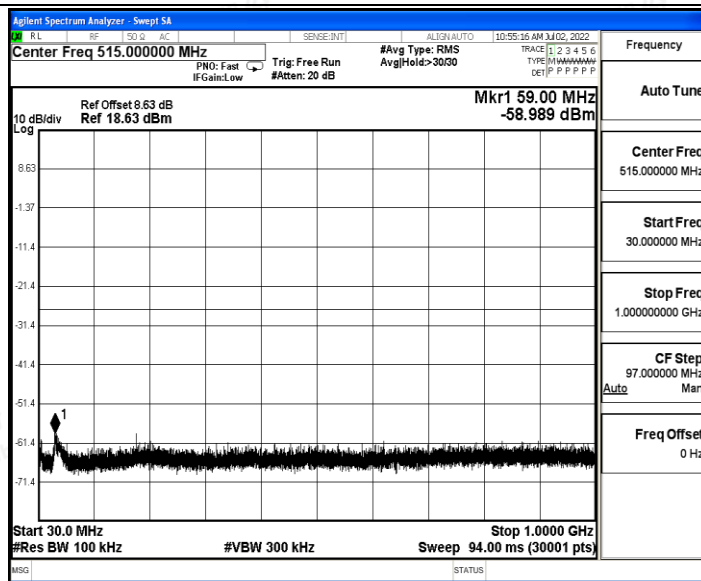


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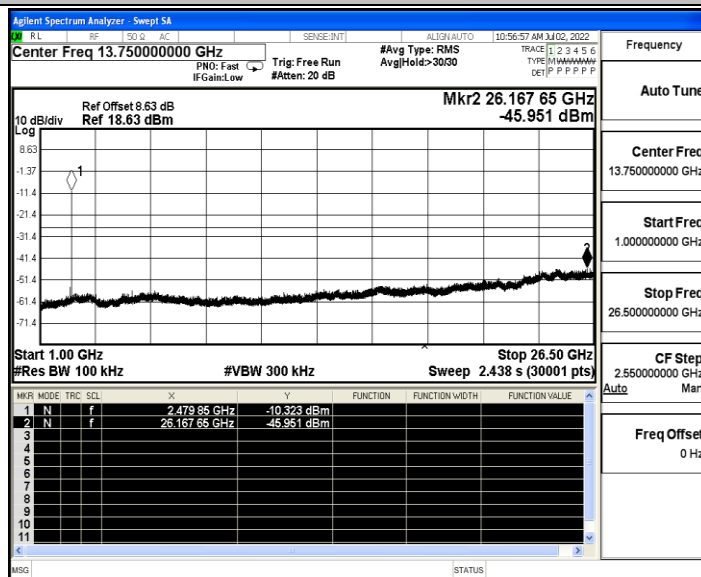
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE_2M_Ant_2480_1000~26500





B.6 Duty Cycle

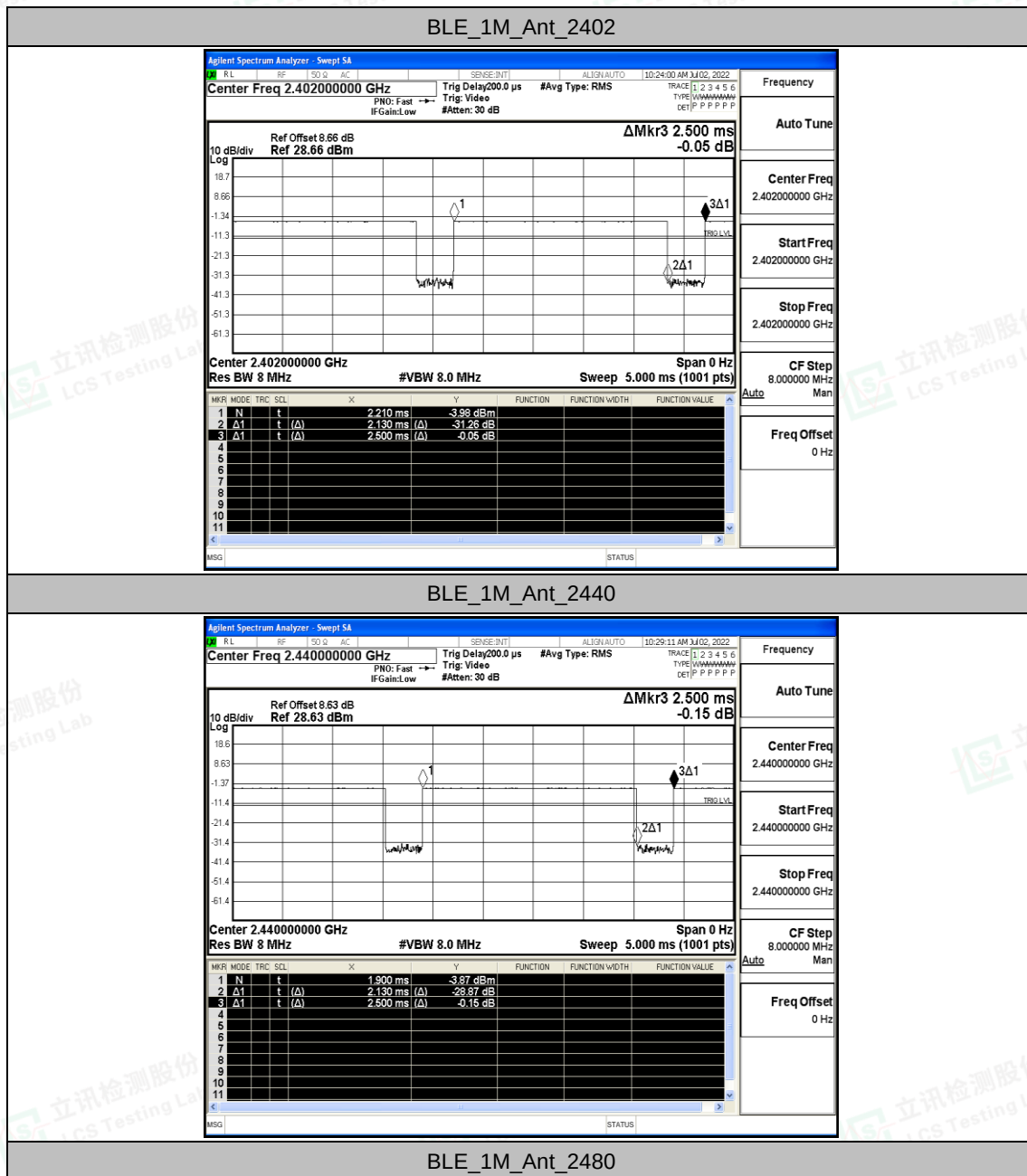
Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE_1M	Ant	2402	2.13	2.50	0.8520	85.20	0.70	0.47	---	---
		2440	2.13	2.50	0.8520	85.20	0.70	0.47	---	---
		2480	2.12	2.50	0.8480	84.80	0.72	0.47	---	---
BLE_2M	Ant	2402	1.07	1.87	0.5722	57.22	2.42	0.93	---	---
		2440	1.08	1.88	0.5745	57.45	2.41	0.93	---	---
		2480	0.85	1.25	0.6800	68.00	1.67	1.18	---	---





Test Graphs

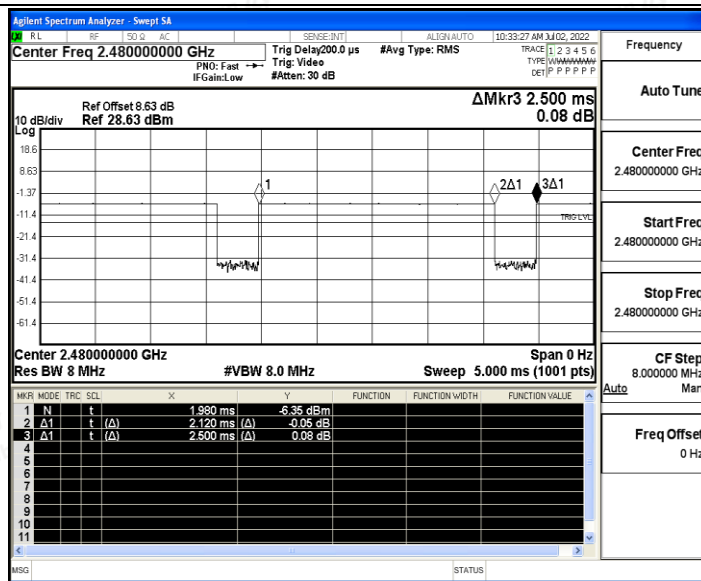


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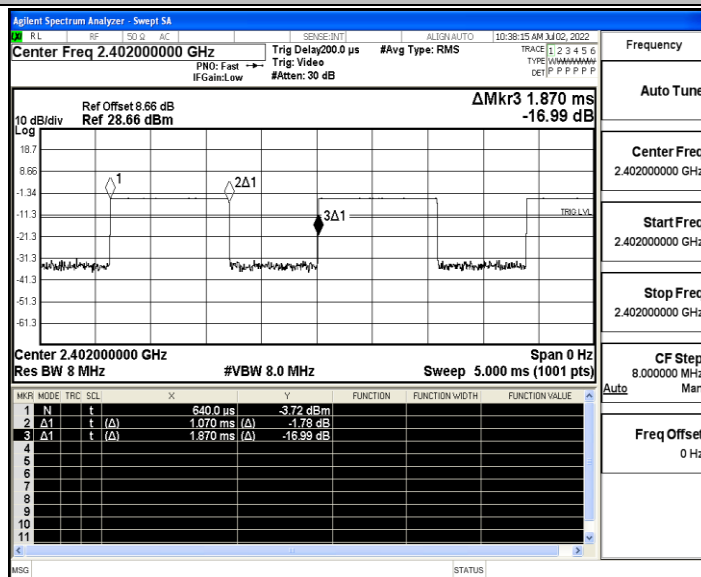
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BLE_2M_Ant_2402



BLE_2M_Ant_2440

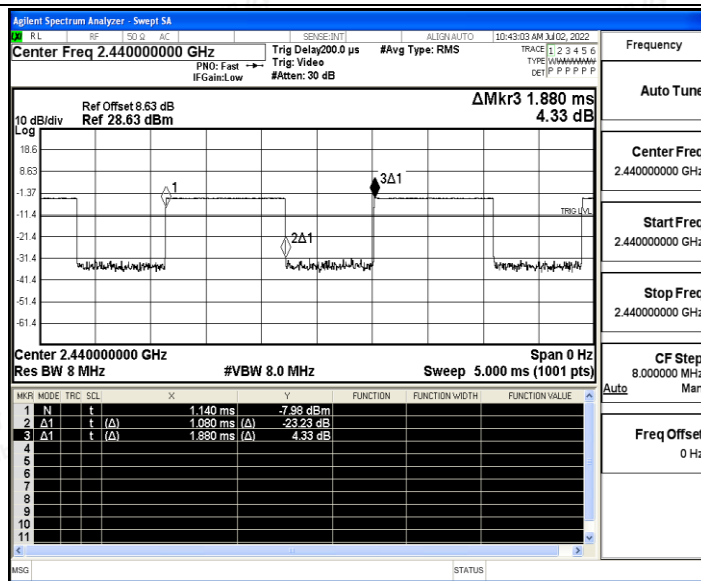


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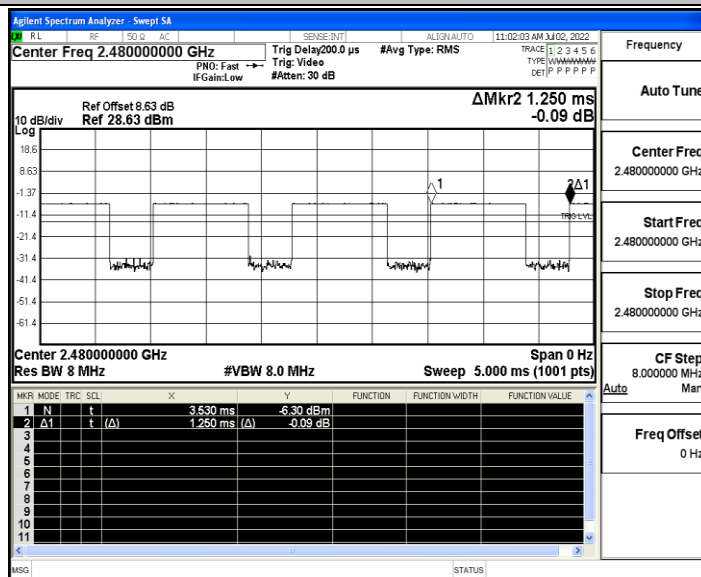
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BLE_2M_Ant_2480



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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	Ant	Low	2402	AV	2310.000	-57.84	≤-41.20	37.36	≤54	PASS
				AV	2389.775	-57.3	≤-41.20	37.90	≤54	PASS
				AV	2390.000	-57.56	≤-41.20	37.64	≤54	PASS
				Peak	2310.000	-47.76	≤-21.20	47.44	≤74	PASS
				Peak	2366.570	-46.63	≤-21.20	48.57	≤74	PASS
				Peak	2390.000	-47.93	≤-21.20	47.27	≤74	PASS
		High	2480	AV	2483.500	-56.31	≤-41.20	38.89	≤54	PASS
				AV	2483.520	-56.3	≤-41.20	38.90	≤54	PASS
				AV	2500.000	-56.85	≤-41.20	38.35	≤54	PASS
				Peak	2483.500	-47.91	≤-21.20	47.29	≤74	PASS
				Peak	2493.200	-46.43	≤-21.20	48.77	≤74	PASS
				Peak	2500.000	-47.64	≤-21.20	47.56	≤74	PASS
BLE_2M	Ant	Low	2402	AV	2310.000	-57.68	≤-41.20	37.52	≤54	PASS
				AV	2385.155	-57.13	≤-41.20	38.07	≤54	PASS
				AV	2390.000	-57.29	≤-41.20	37.91	≤54	PASS
				Peak	2310.000	-47.31	≤-21.20	47.89	≤74	PASS
				Peak	2384.840	-46.15	≤-21.20	49.05	≤74	PASS
				Peak	2390.000	-48.26	≤-21.20	46.94	≤74	PASS
		High	2480	AV	2483.500	-54.45	≤-41.20	40.75	≤54	PASS
				AV	2483.520	-54.45	≤-41.20	40.75	≤54	PASS
				AV	2500.000	-57.37	≤-41.20	37.83	≤54	PASS
				Peak	2483.500	-46.76	≤-21.20	48.44	≤74	PASS
				Peak	2484.880	-46.27	≤-21.20	48.93	≤74	PASS
				Peak	2500.000	-47.97	≤-21.20	47.23	≤74	PASS

Note:

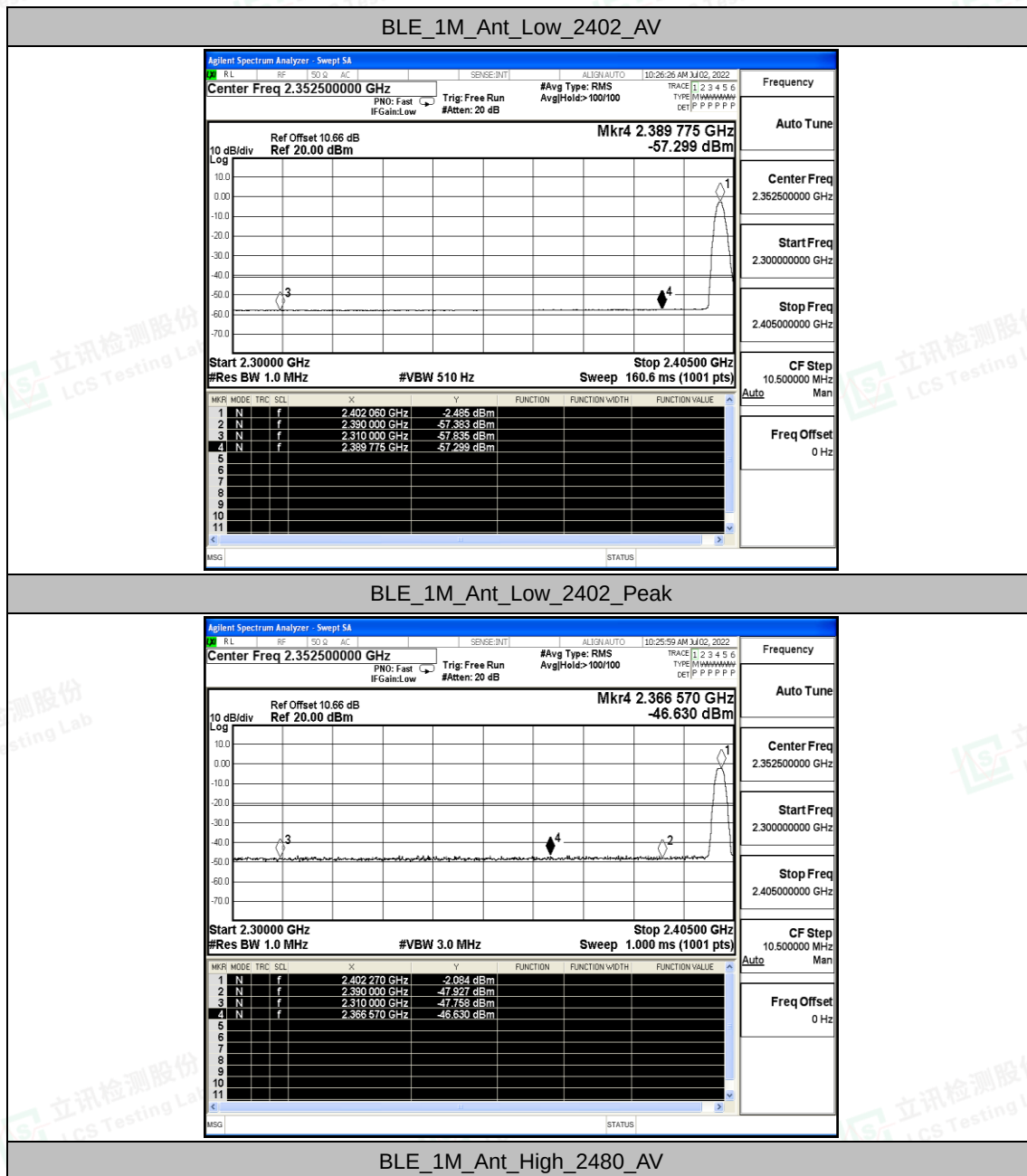
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



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Test Graphs

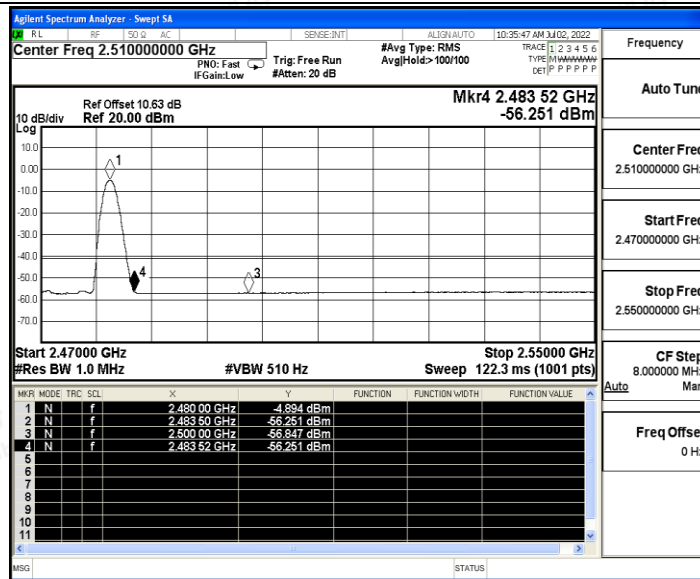


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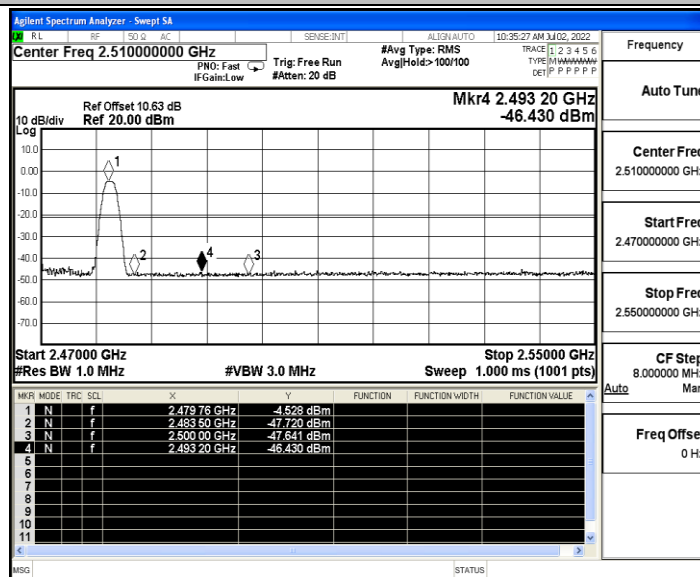
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE_1M_Ant_High_2480_Peak



BLE_2M_Ant_Low_2402_AV

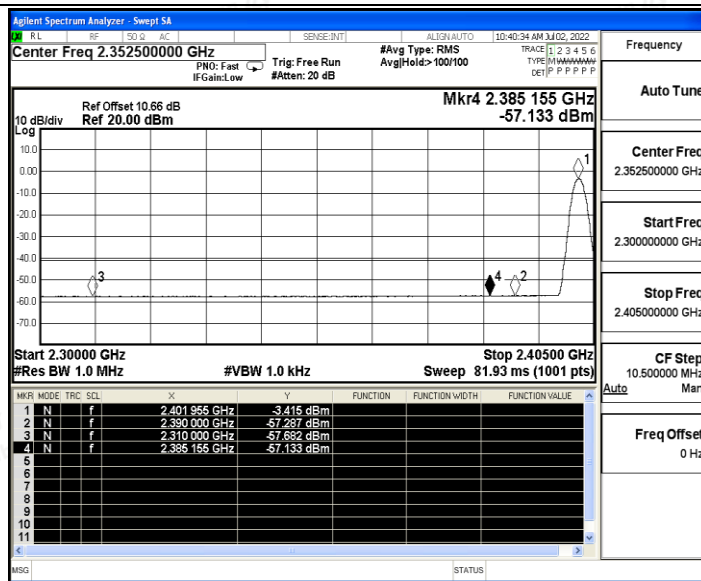


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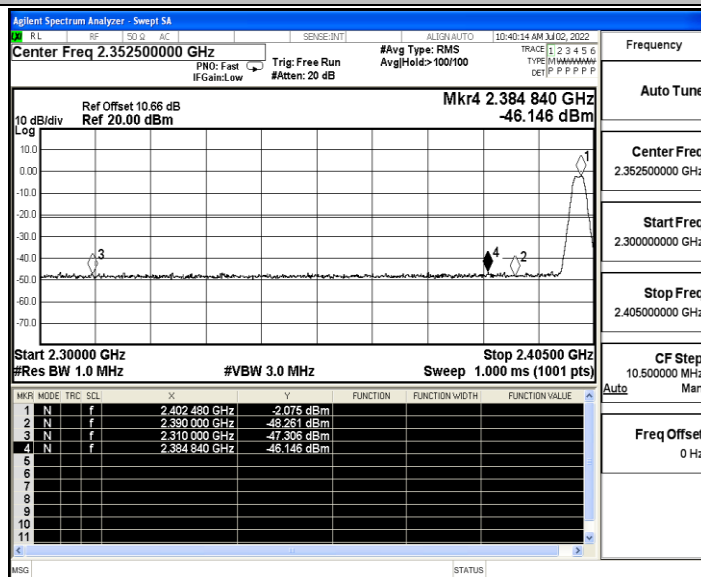
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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BLE_2M_Ant_Low_2402_Peak



BLE_2M_Ant_High_2480_AV

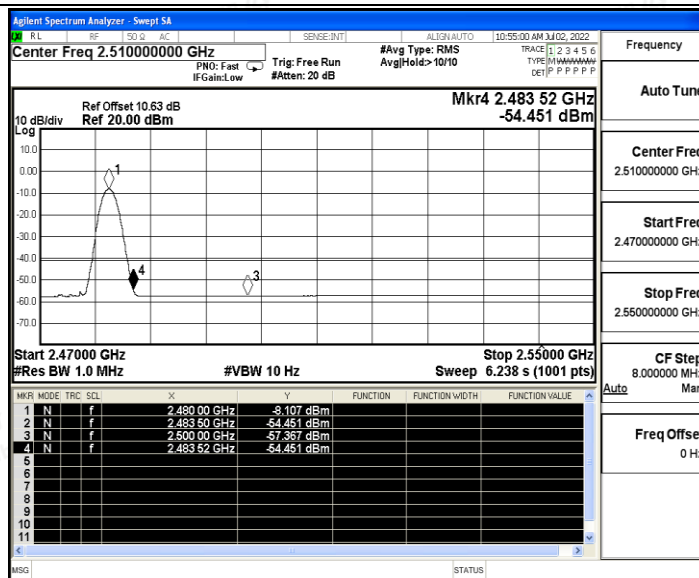


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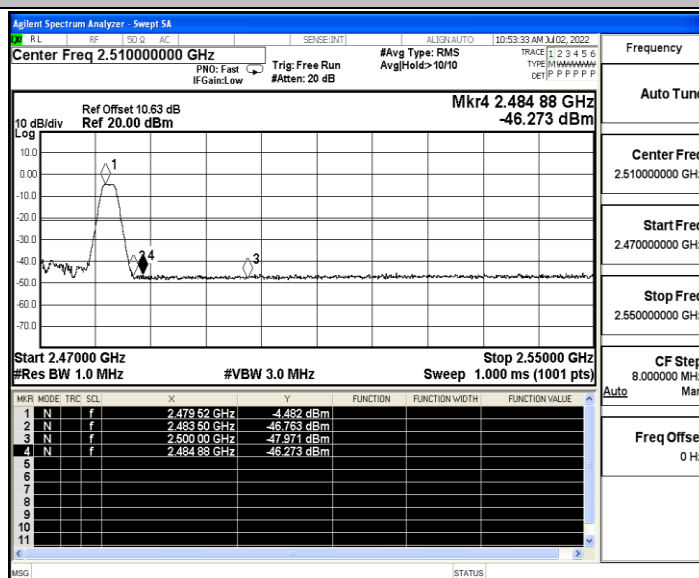
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BLE_2M_Ant_High_2480_Peak



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