



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: All-In-One Touch Screen

Test Model: HS-65IW-L06PA

Environmental Conditions

Temperature:	24.1℃
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li Huan



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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	2401.628	2402.340	0.5	PASS
		2440	0.712	2439.624	2440.336	0.5	PASS
		2480	0.712	2479.624	2480.336	0.5	PASS



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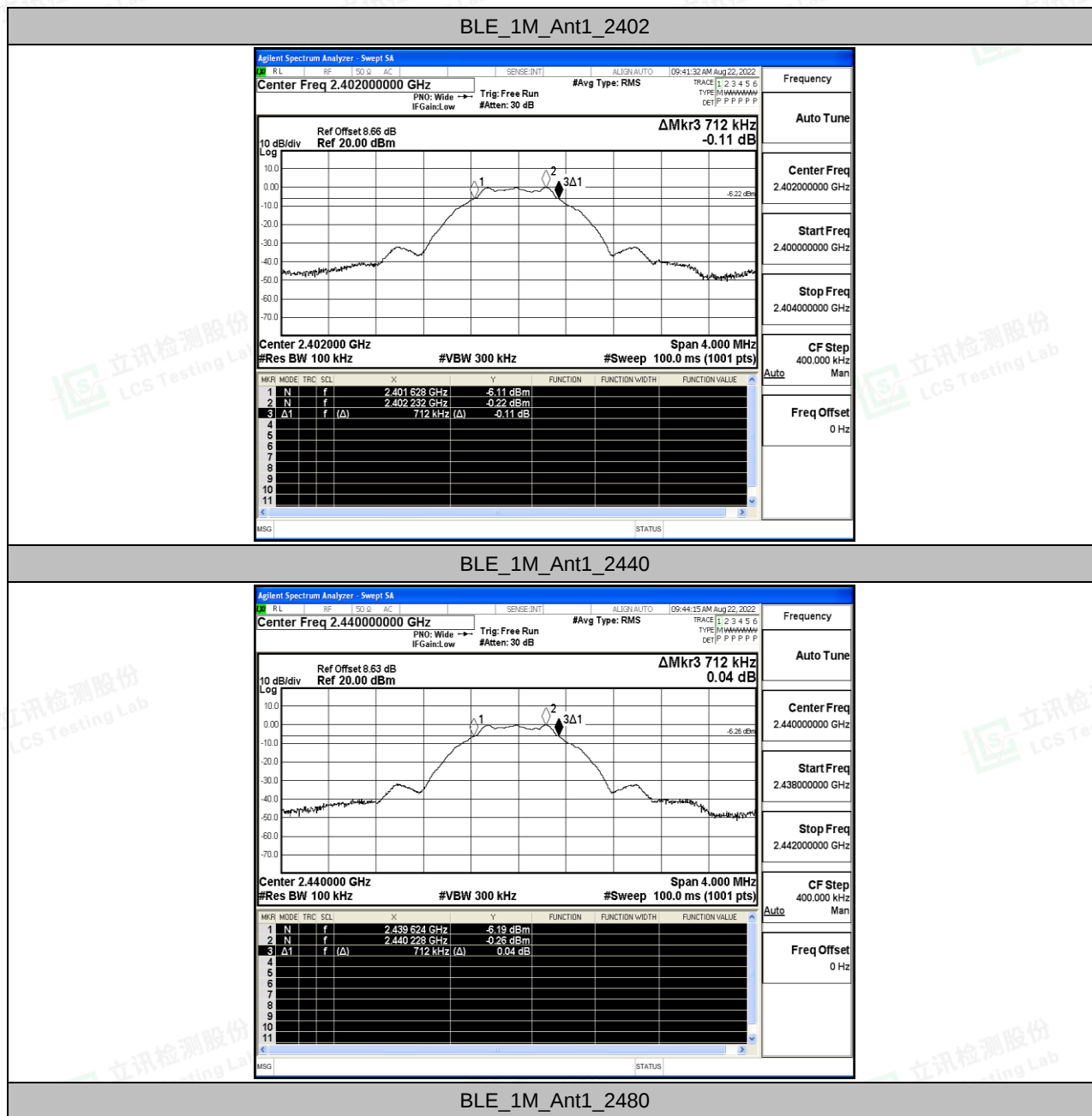
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Test Graphs

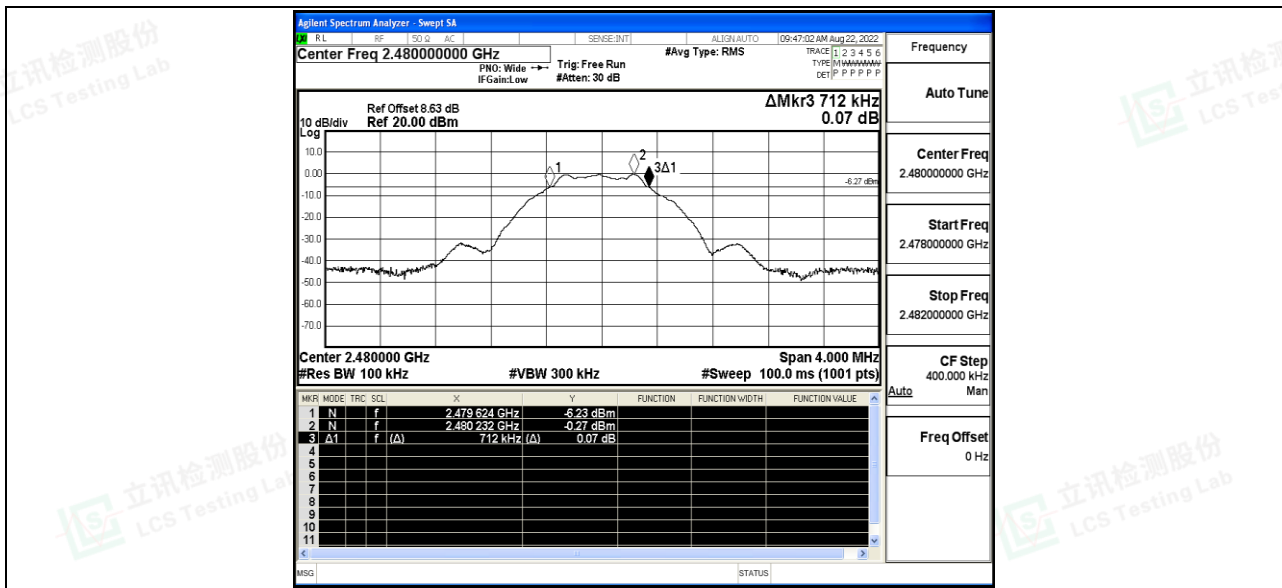


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B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.79	≤30	PASS
		2440	0.7	≤30	PASS
		2480	0.68	≤30	PASS



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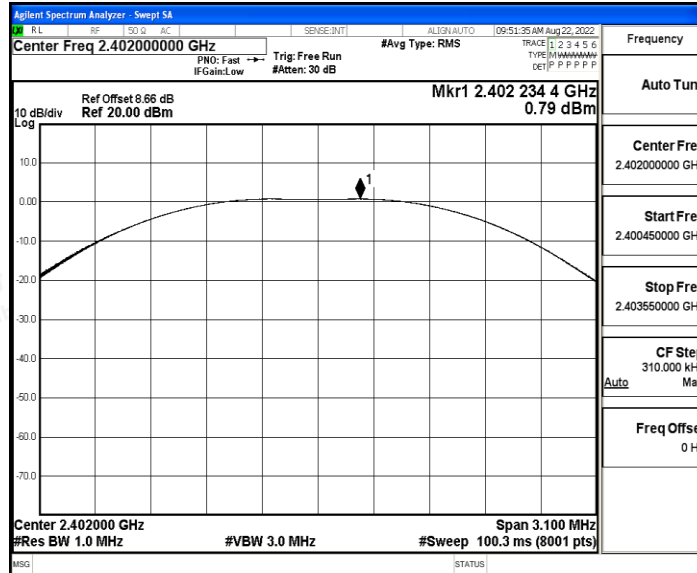
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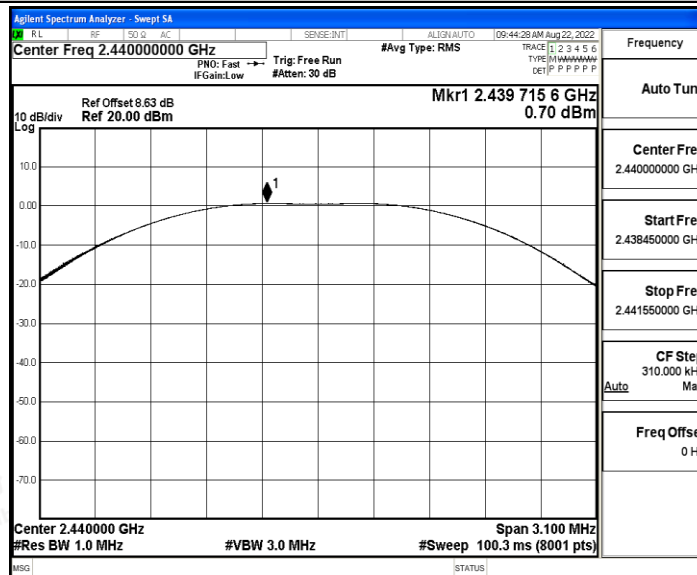


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

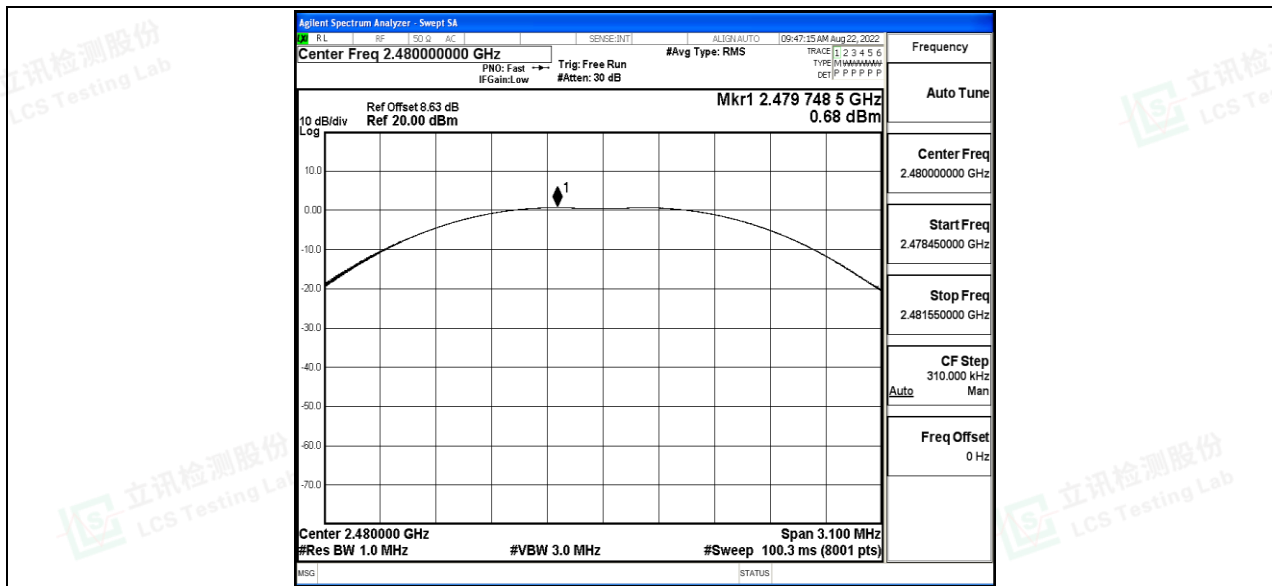


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B.3 Maximum power spectral density

Test Result

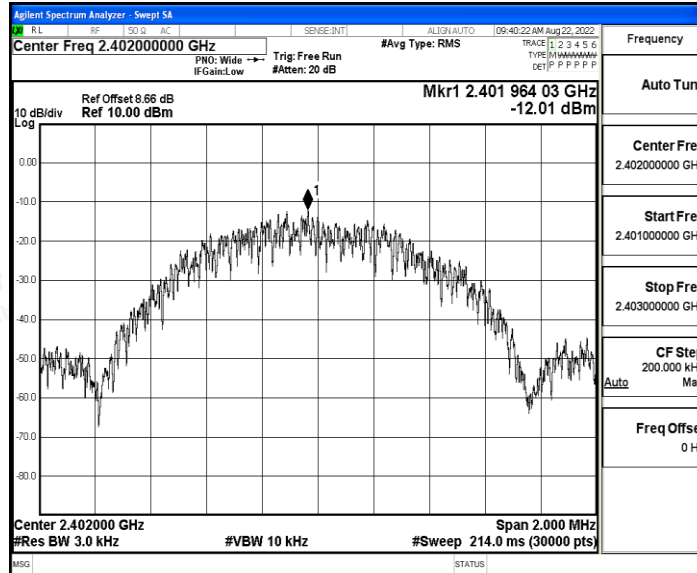
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.01	≤8.00	PASS
		2440	-15.56	≤8.00	PASS
		2480	-15.25	≤8.00	PASS



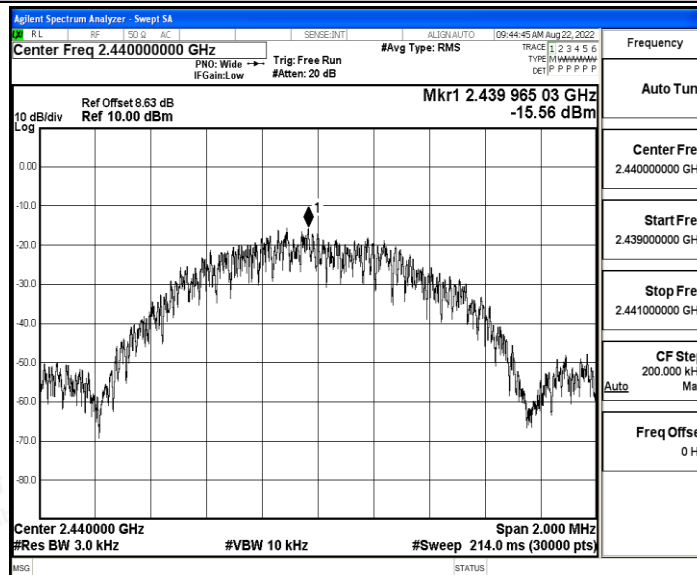


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

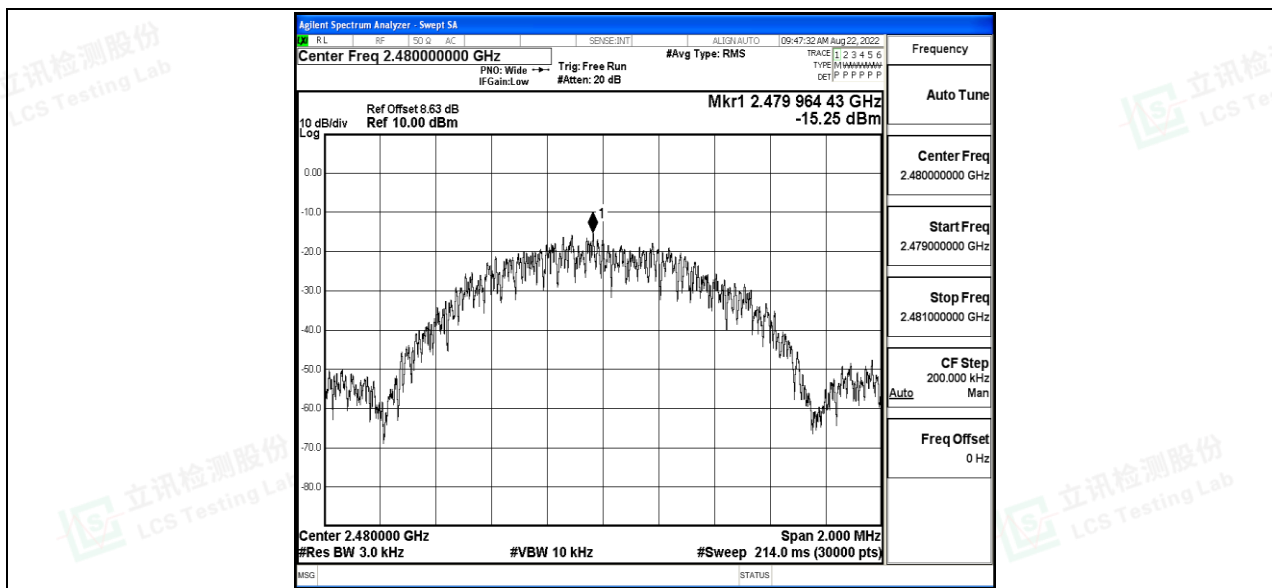


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B.4 Band edge measurements

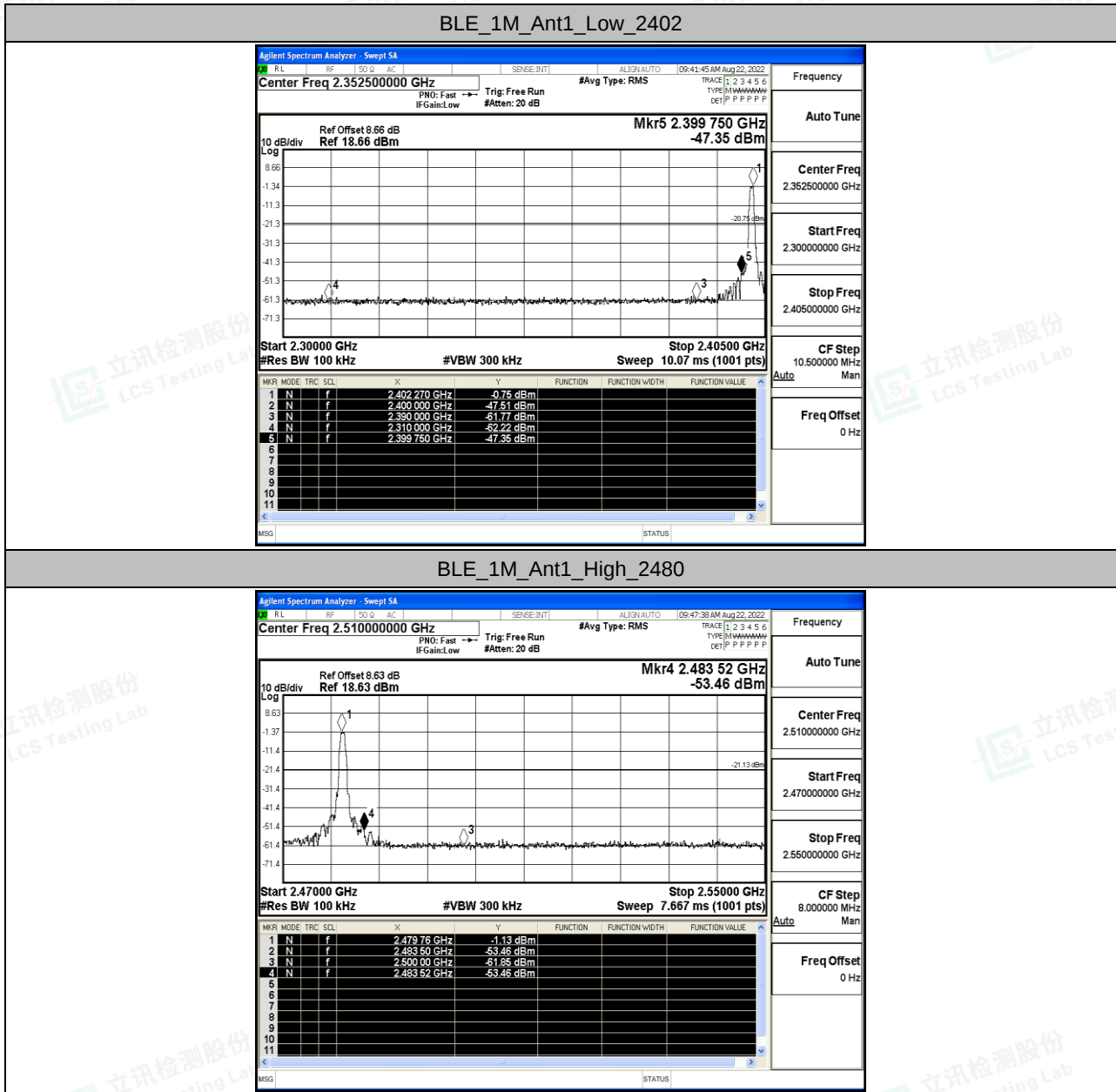
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.75	-47.35	≤ -20.75	PASS
		High	2480	-1.13	-53.46	≤ -21.13	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	-0.69	-0.69	---	PASS
			30~1000	-0.69	-43.22	≤-20.69	PASS
			1000~26500	-0.69	-46.44	≤-20.69	PASS
		2440	Reference	-1.58	-1.58	---	PASS
			30~1000	-1.58	-60.9	≤-21.58	PASS
			1000~26500	-1.58	-46.39	≤-21.58	PASS
		2480	Reference	-0.55	-0.55	---	PASS
			30~1000	-0.55	-60.2	≤-20.55	PASS
			1000~26500	-0.55	-45.6	≤-20.55	PASS



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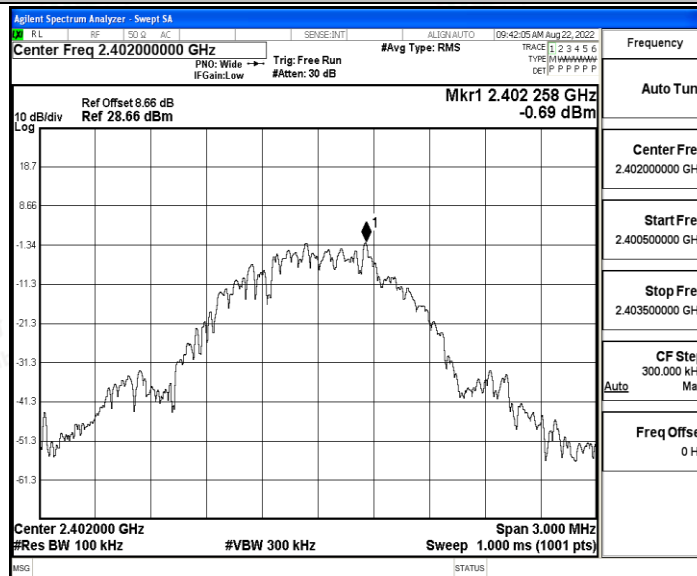
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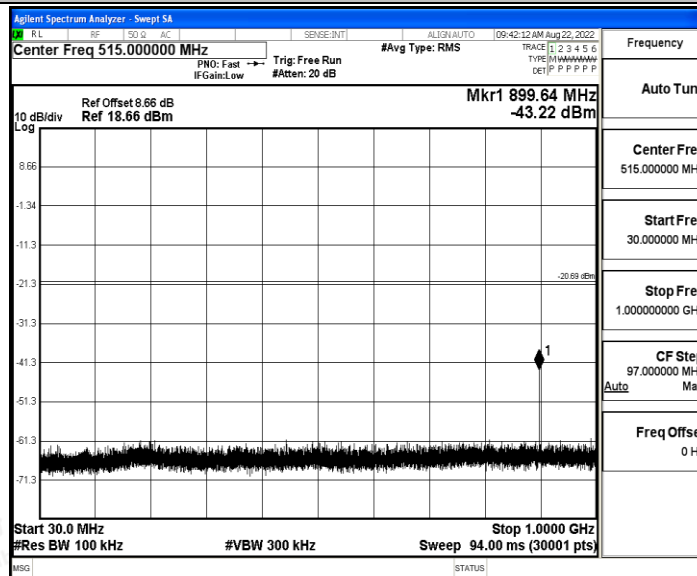


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

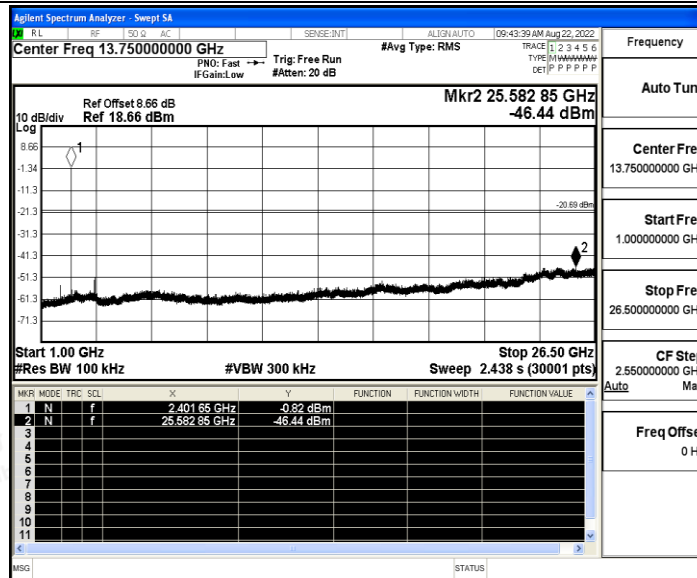


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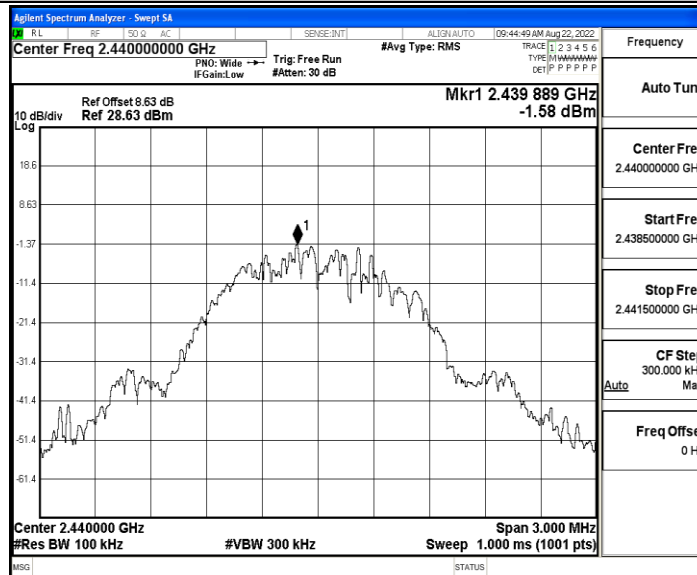
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

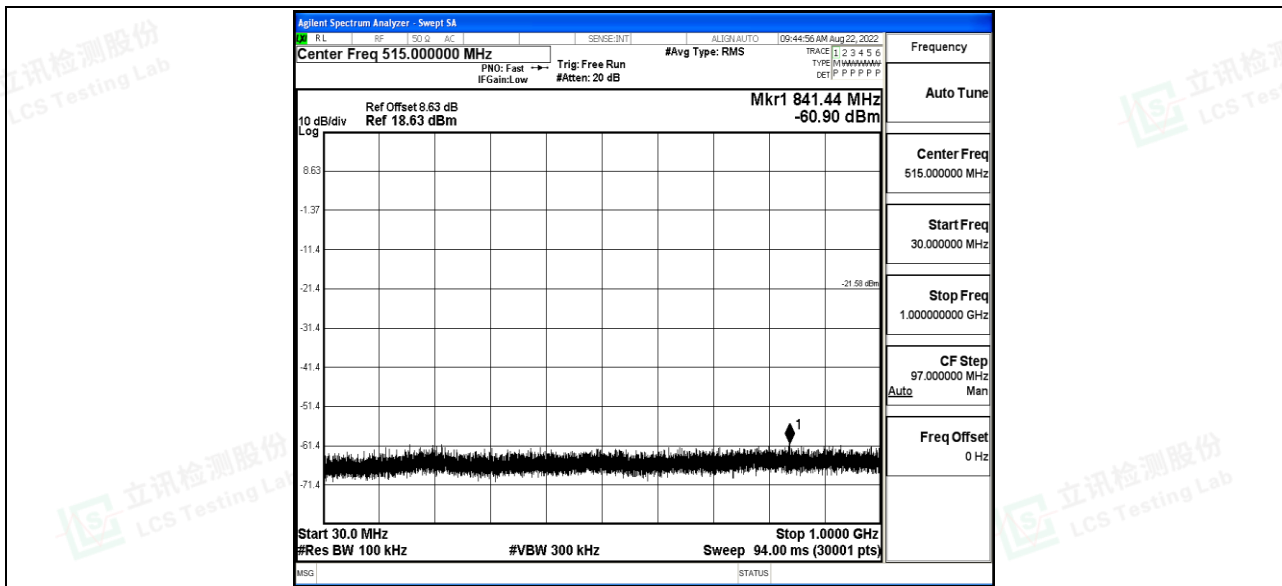


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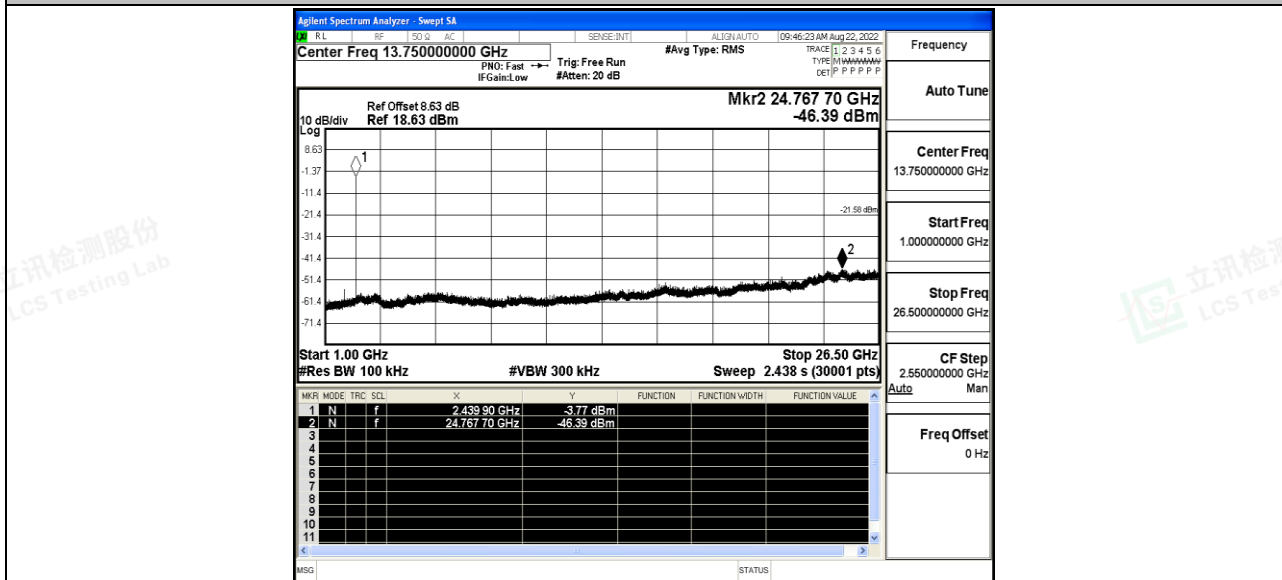
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BLE_1M_Ant1_2440_1000-26500



BLE_1M_Ant1_2480_0-Reference

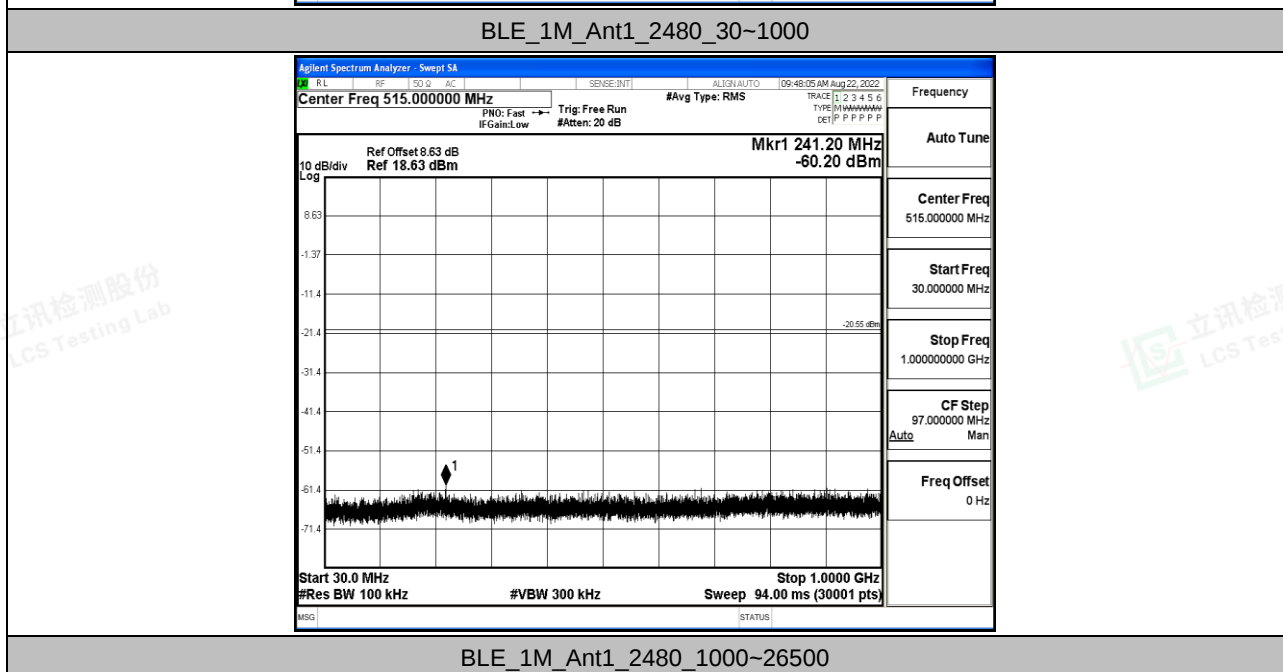
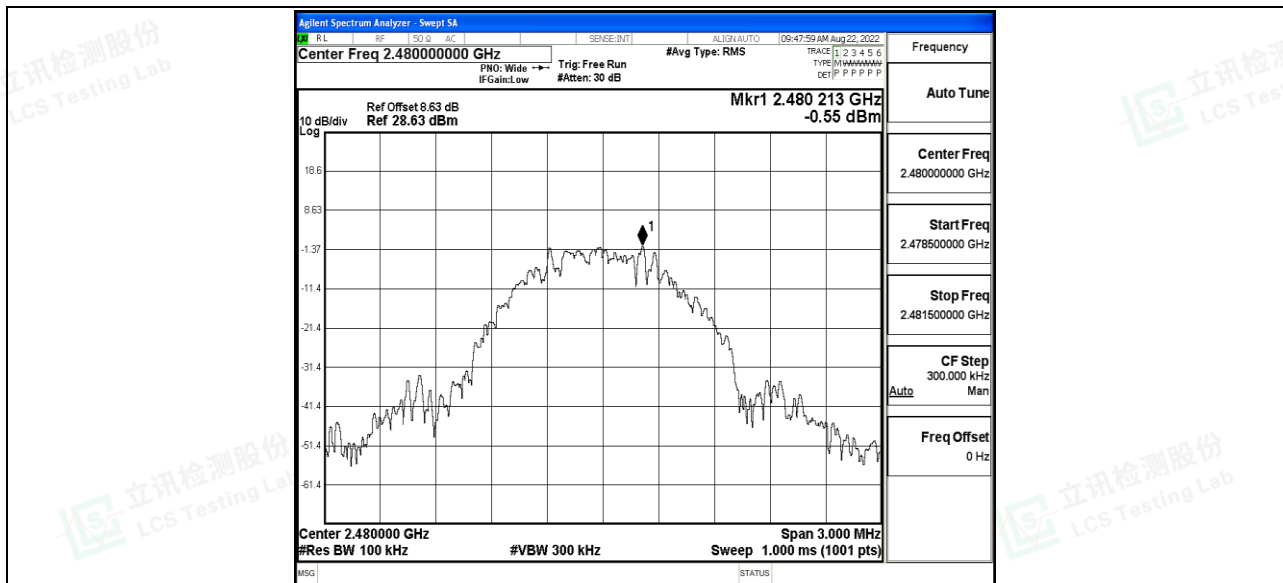


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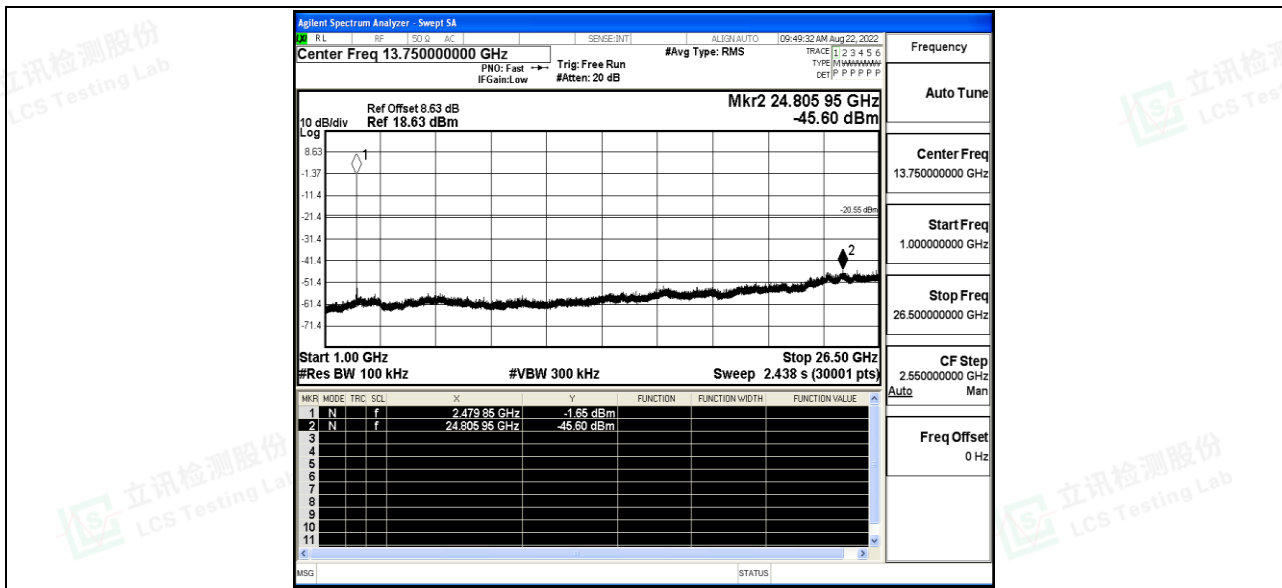


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B.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.63	0.6190	61.90	2.08	2.56	---	---
		2440	0.39	0.63	0.6190	61.90	2.08	2.56	---	---
		2480	0.38	0.62	0.6129	61.29	2.13	2.63	---	---



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Test Graphs

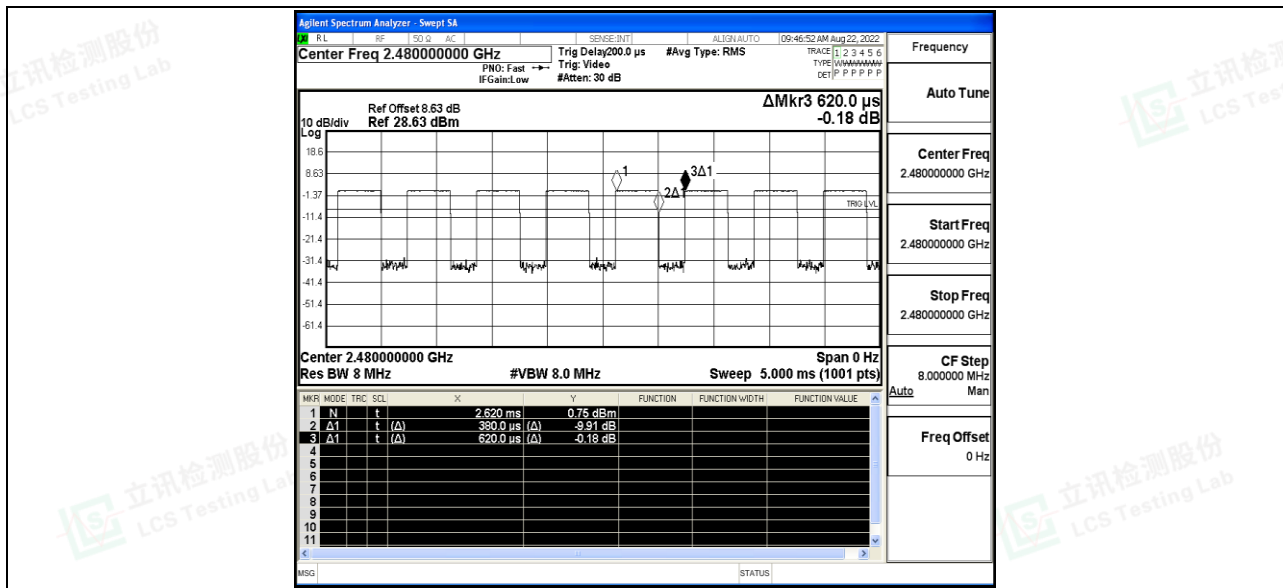


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B.7 Emissions in Restricted Bands

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	-57.37	≤-41.20	40.44	≤54	PASS
				AV	2387.885	-56.57	≤-41.20	41.24	≤54	PASS
				AV	2390.000	-56.64	≤-41.20	41.17	≤54	PASS
				Peak	2310.000	-50.84	≤-21.20	46.97	≤74	PASS
				Peak	2388.830	-47.06	≤-21.20	50.75	≤74	PASS
				Peak	2390.000	-50.37	≤-21.20	47.44	≤74	PASS
		High	2480	AV	2483.500	-51.05	≤-41.20	46.76	≤54	PASS
				AV	2483.520	-51.05	≤-41.20	46.76	≤54	PASS
				AV	2500.000	-56.4	≤-41.20	41.41	≤54	PASS
				Peak	2483.500	-35.98	≤-21.20	61.83	≤74	PASS
				Peak	2483.520	-35.98	≤-21.20	61.83	≤74	PASS
				Peak	2500.000	-49.57	≤-21.20	48.24	≤74	PASS

Note:

1. 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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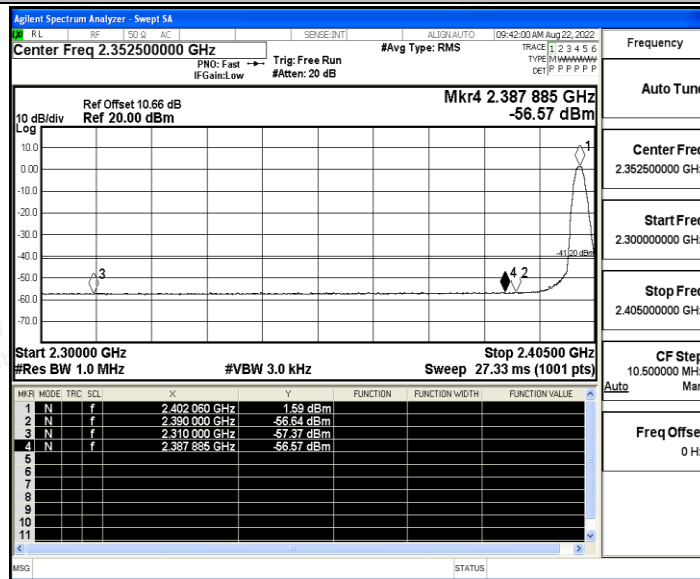
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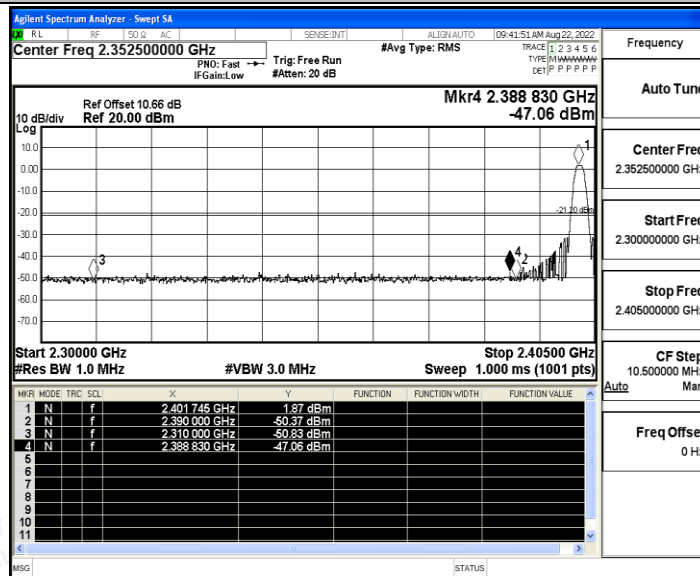


Test Graphs

BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV

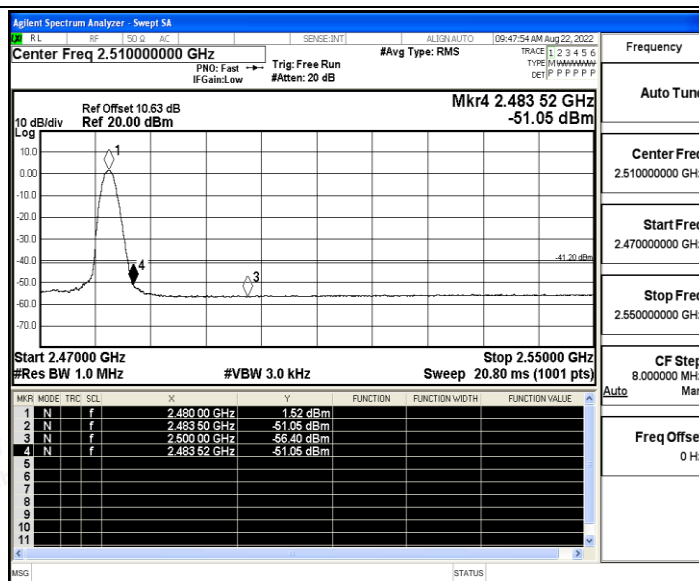


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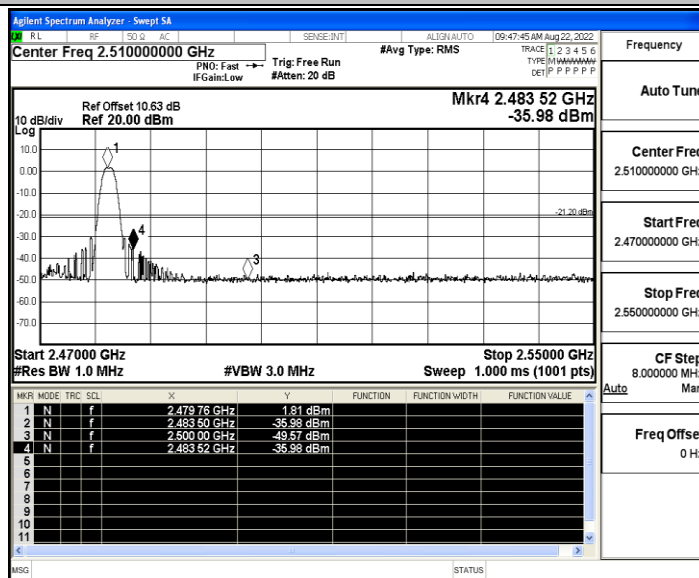
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BLE_1M_Ant1_High_2480_Peak



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