



Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: Wireless Gaming Controller

Test Model: PXN-P3

Environmental Conditions

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



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A.1 DTS Bandwidth

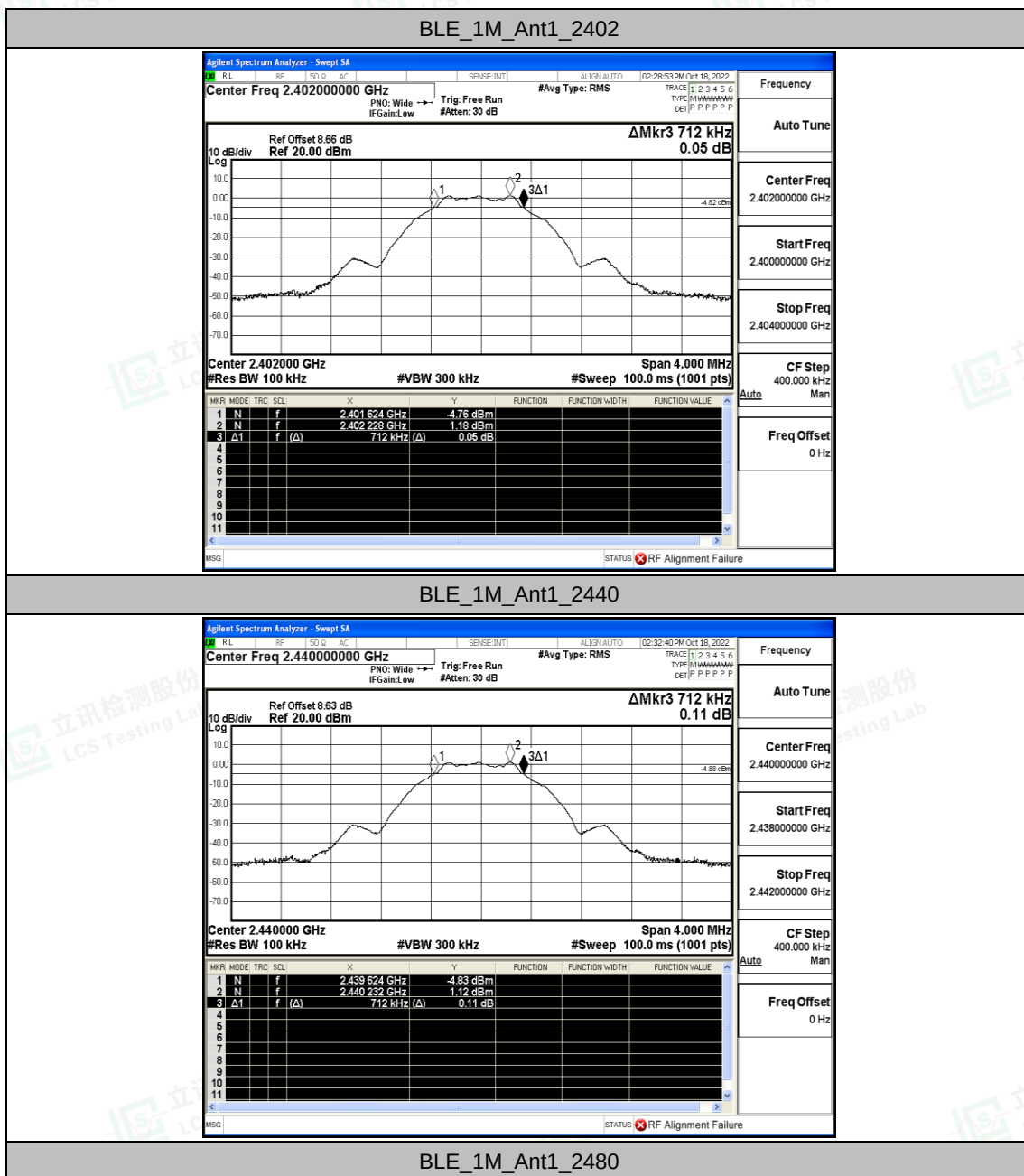
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.712	2401.624	2402.336	0.5	PASS
		2440	0.712	2439.624	2440.336	0.5	PASS
		2480	0.712	2479.624	2480.336	0.5	PASS





Test Graphs

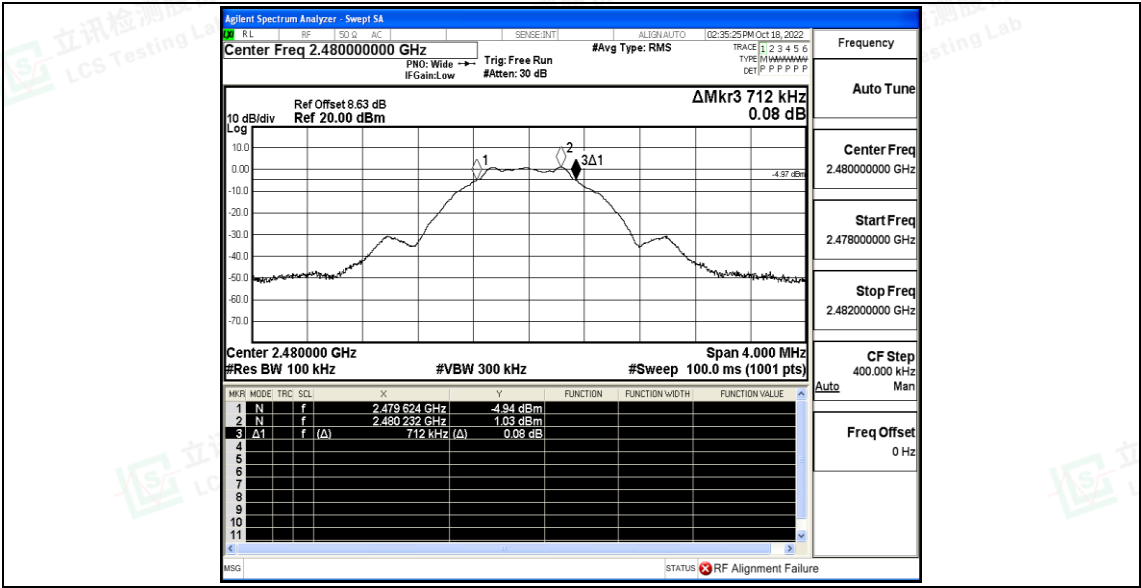


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A.2 Maximum conducted output power

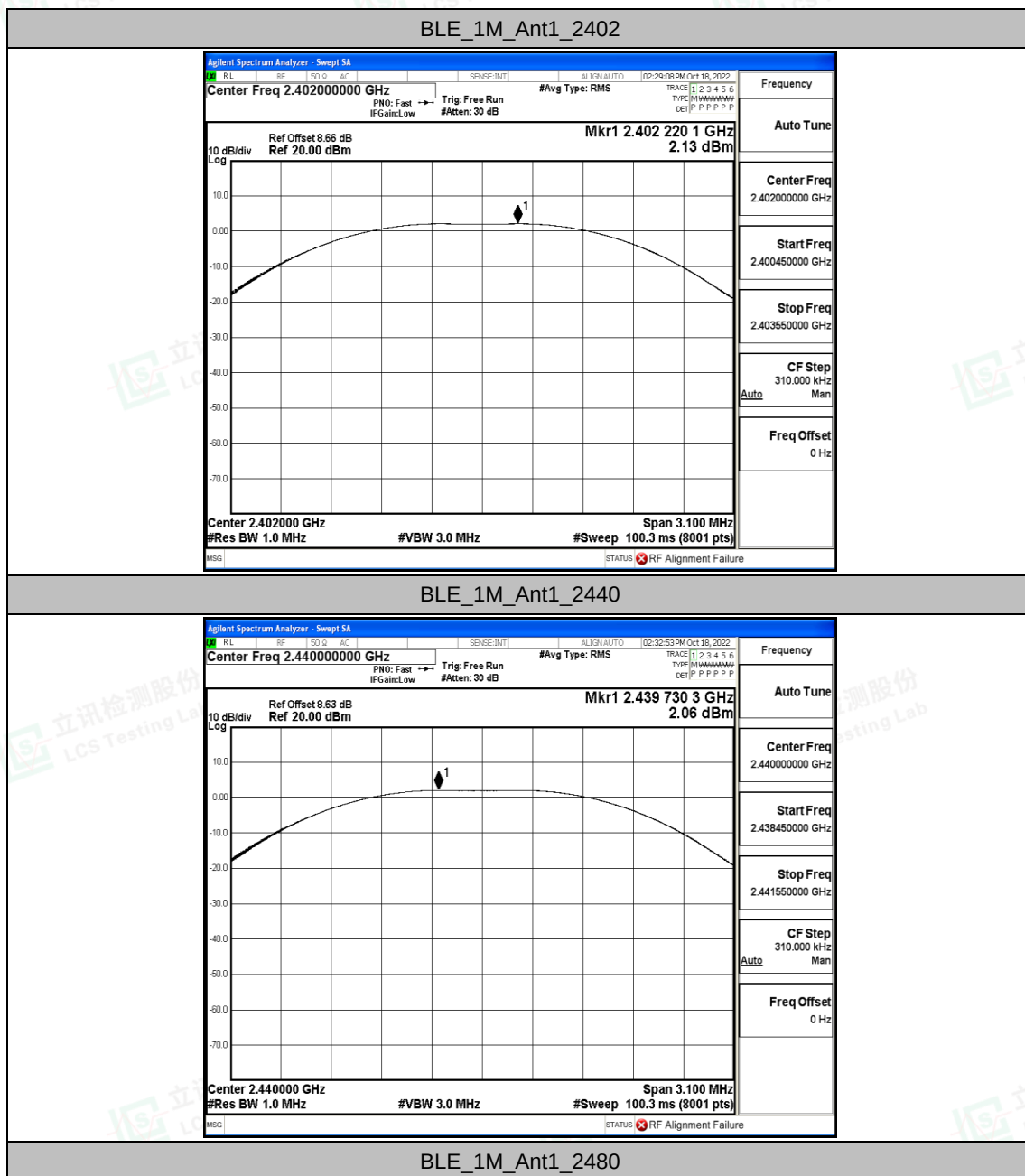
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.13	≤30	PASS
		2440	2.07	≤30	PASS
		2480	1.98	≤30	PASS





Test Graphs

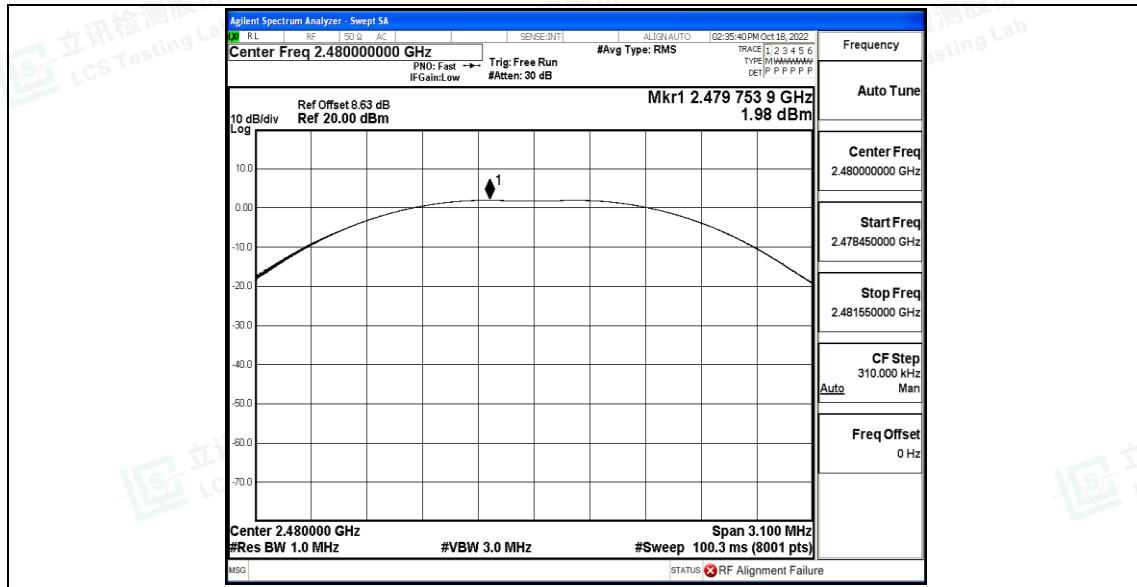


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A.3 Maximum power spectral density

Test Result

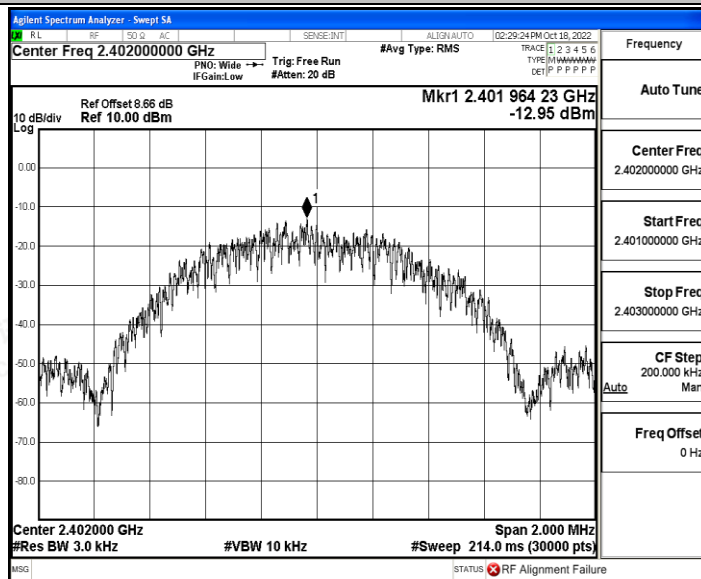
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.95	≤8.00	PASS
		2440	-12.97	≤8.00	PASS
		2480	-13.1	≤8.00	PASS



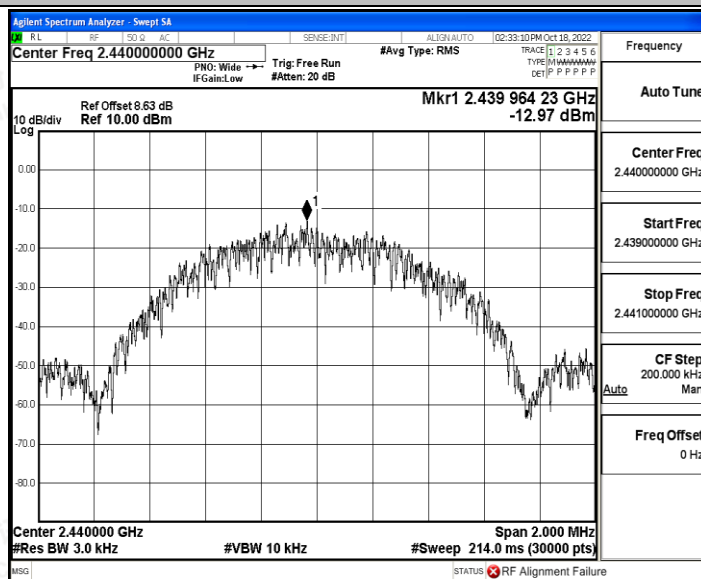


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

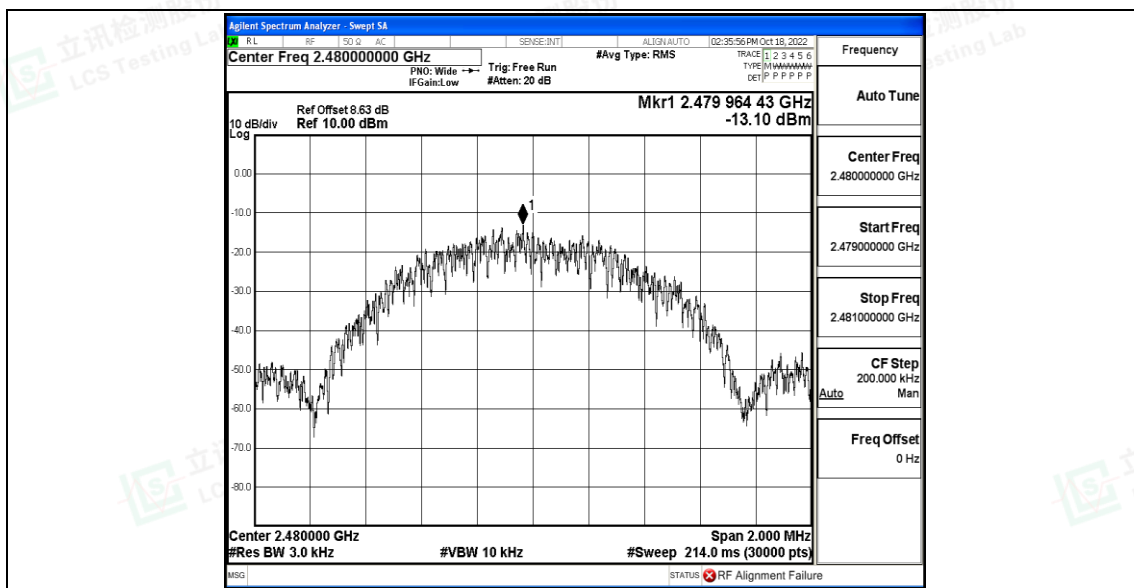


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A.4 Band edge measurements

Test Result

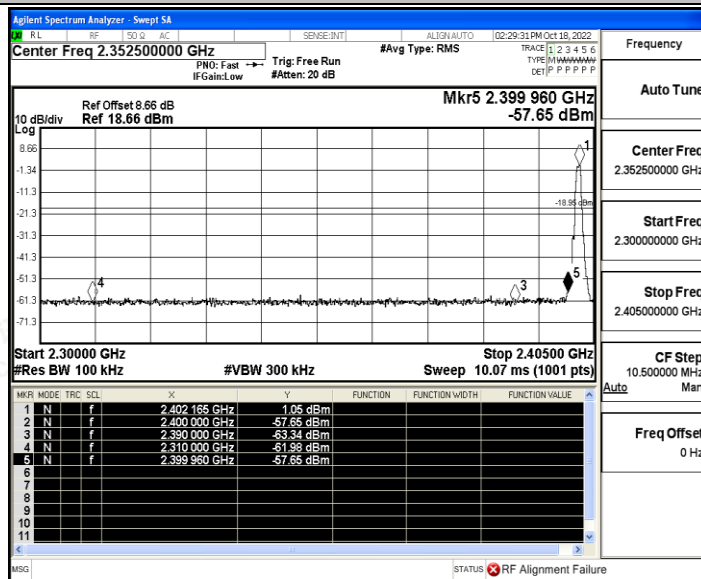
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.06	-57.65	≤-18.95	PASS
		High	2480	1.23	-58.28	≤-18.78	PASS



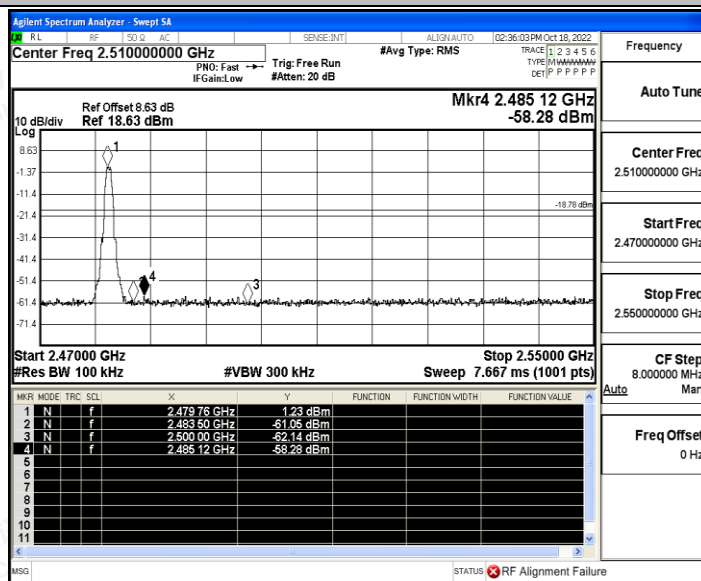


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



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A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.97	0.97	---	PASS
			30~1000	0.97	-60.54	≤-19.03	PASS
			1000~26500	0.97	-45.41	≤-19.03	PASS
		2440	Reference	0.56	0.56	---	PASS
			30~1000	0.56	-60.19	≤-19.44	PASS
			1000~26500	0.56	-45.5	≤-19.44	PASS
		2480	Reference	0.88	0.88	---	PASS
			30~1000	0.88	-60.36	≤-19.12	PASS
			1000~26500	0.88	-46.83	≤-19.12	PASS



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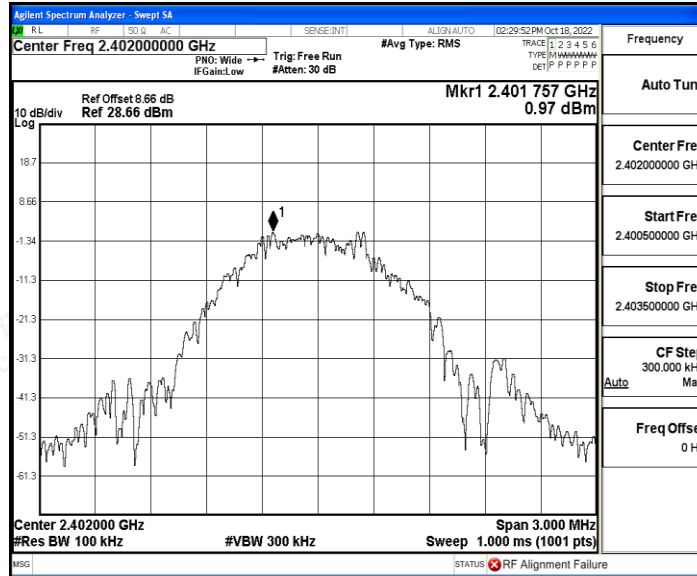
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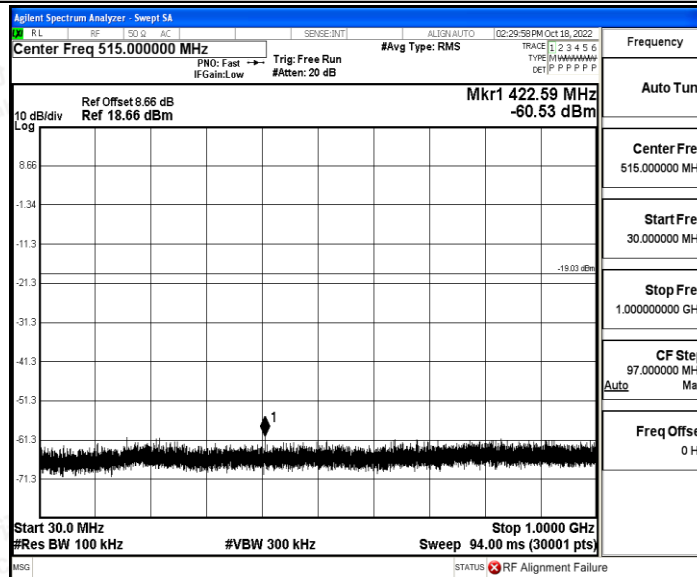


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

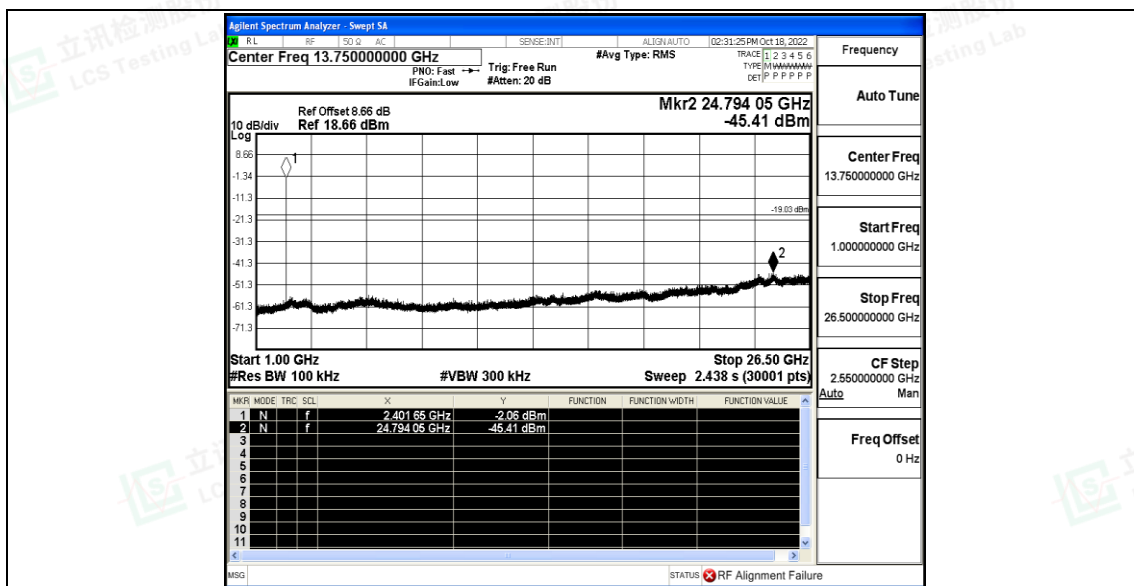


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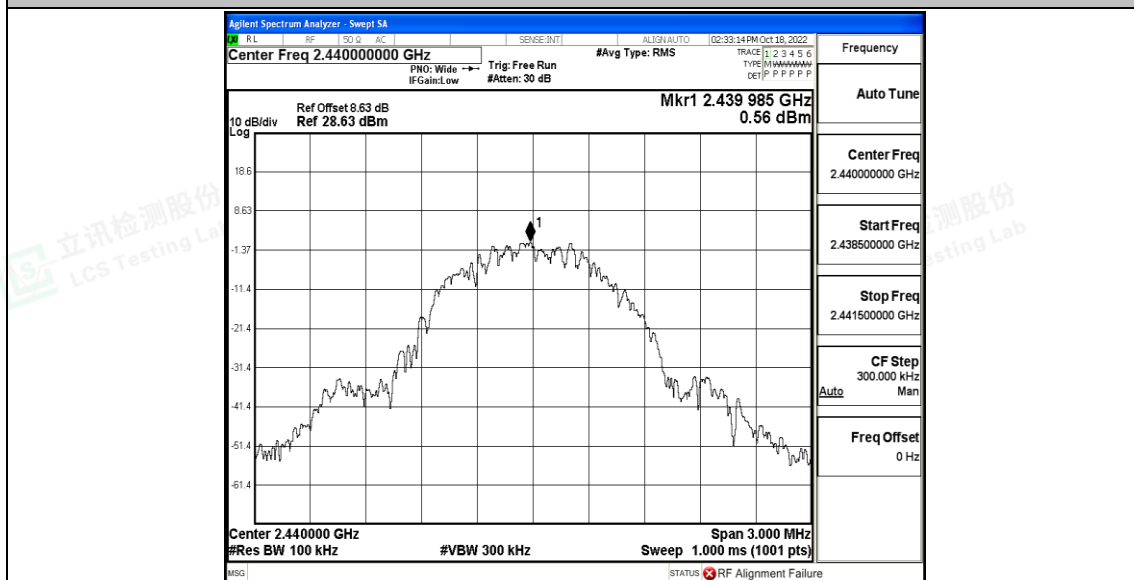
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000

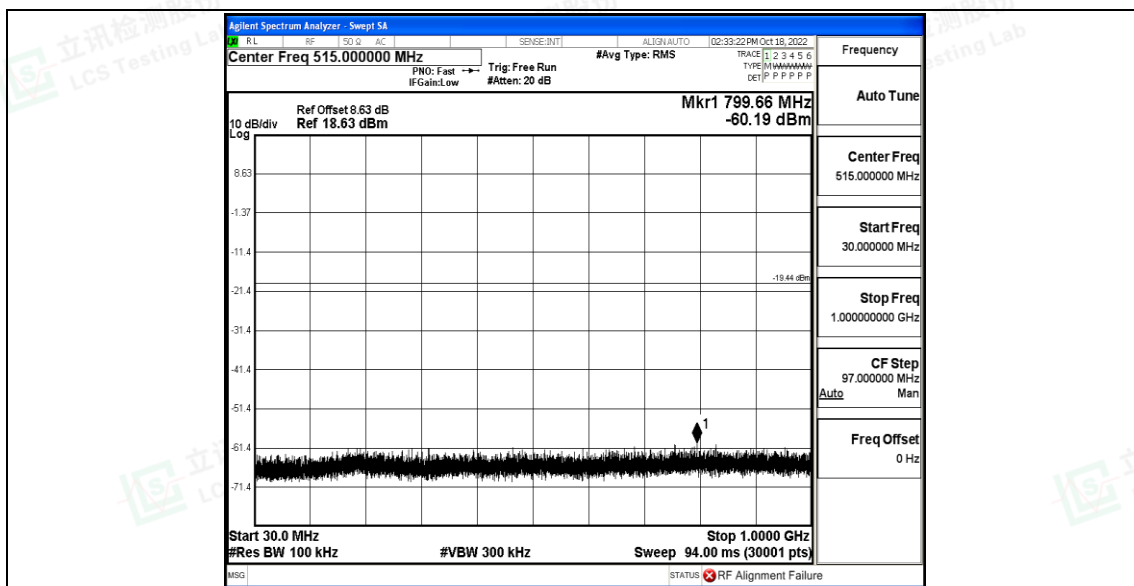


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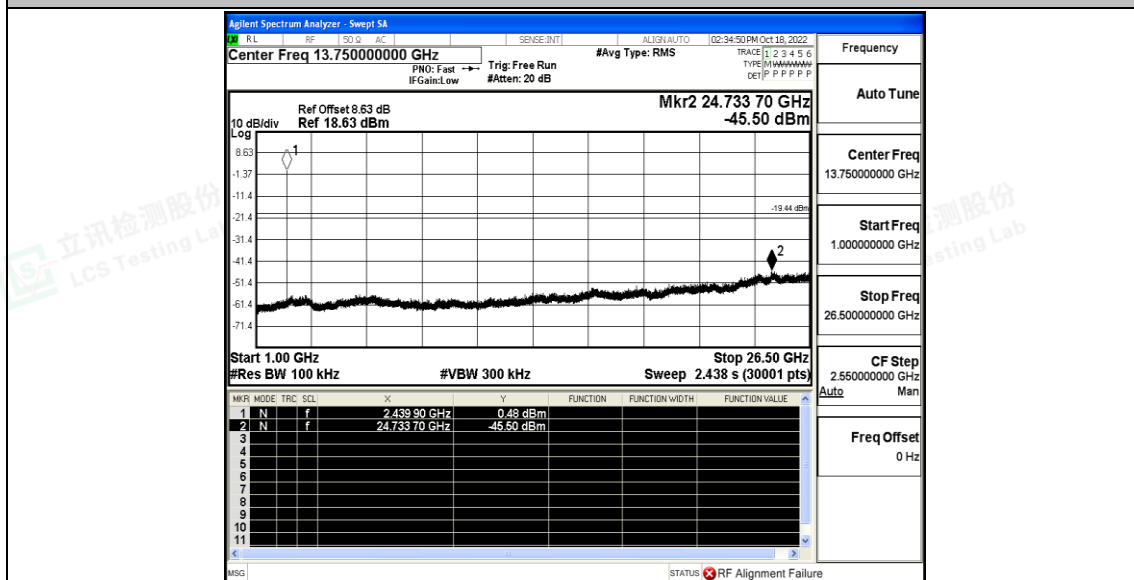
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

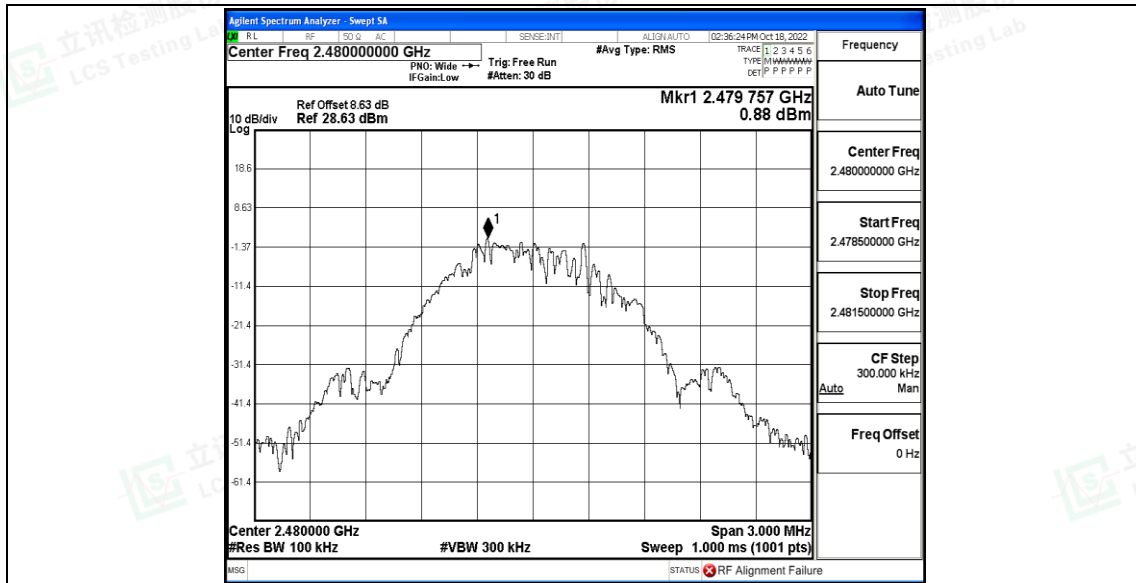


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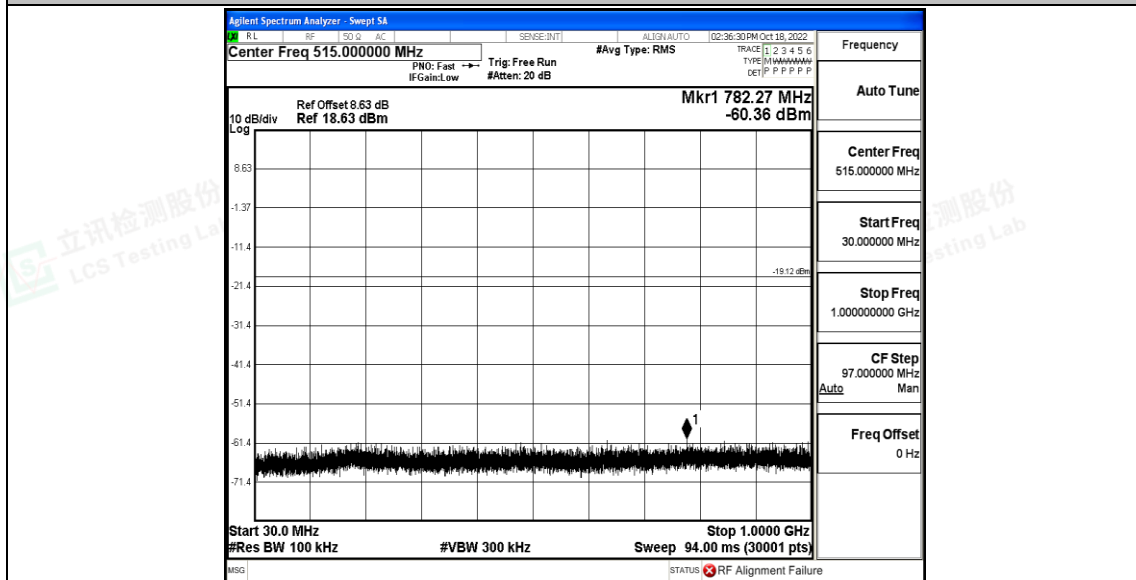
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BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

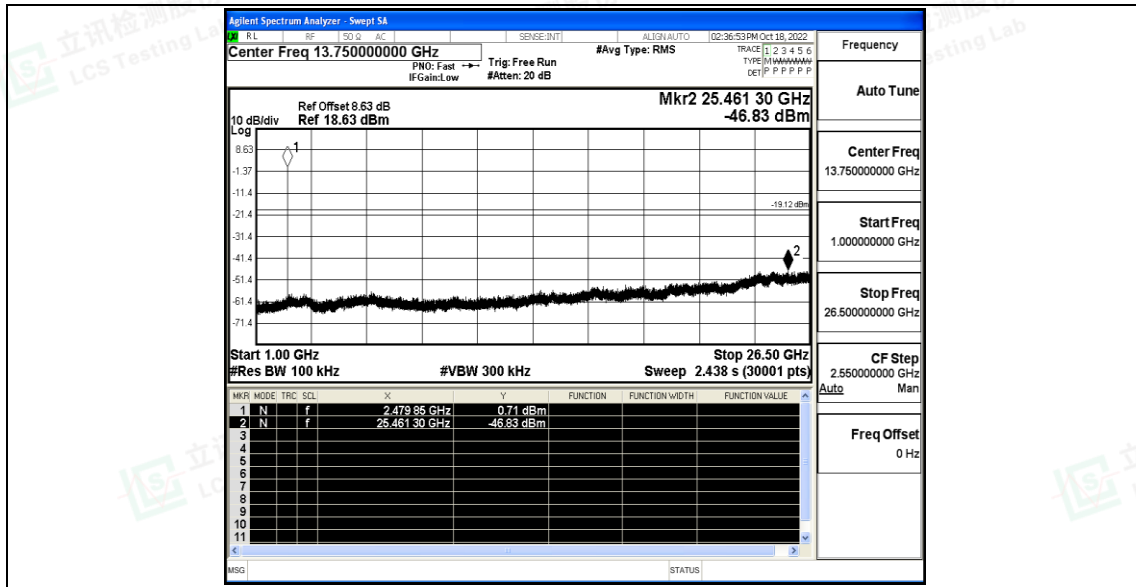


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A.6 Duty Cycle

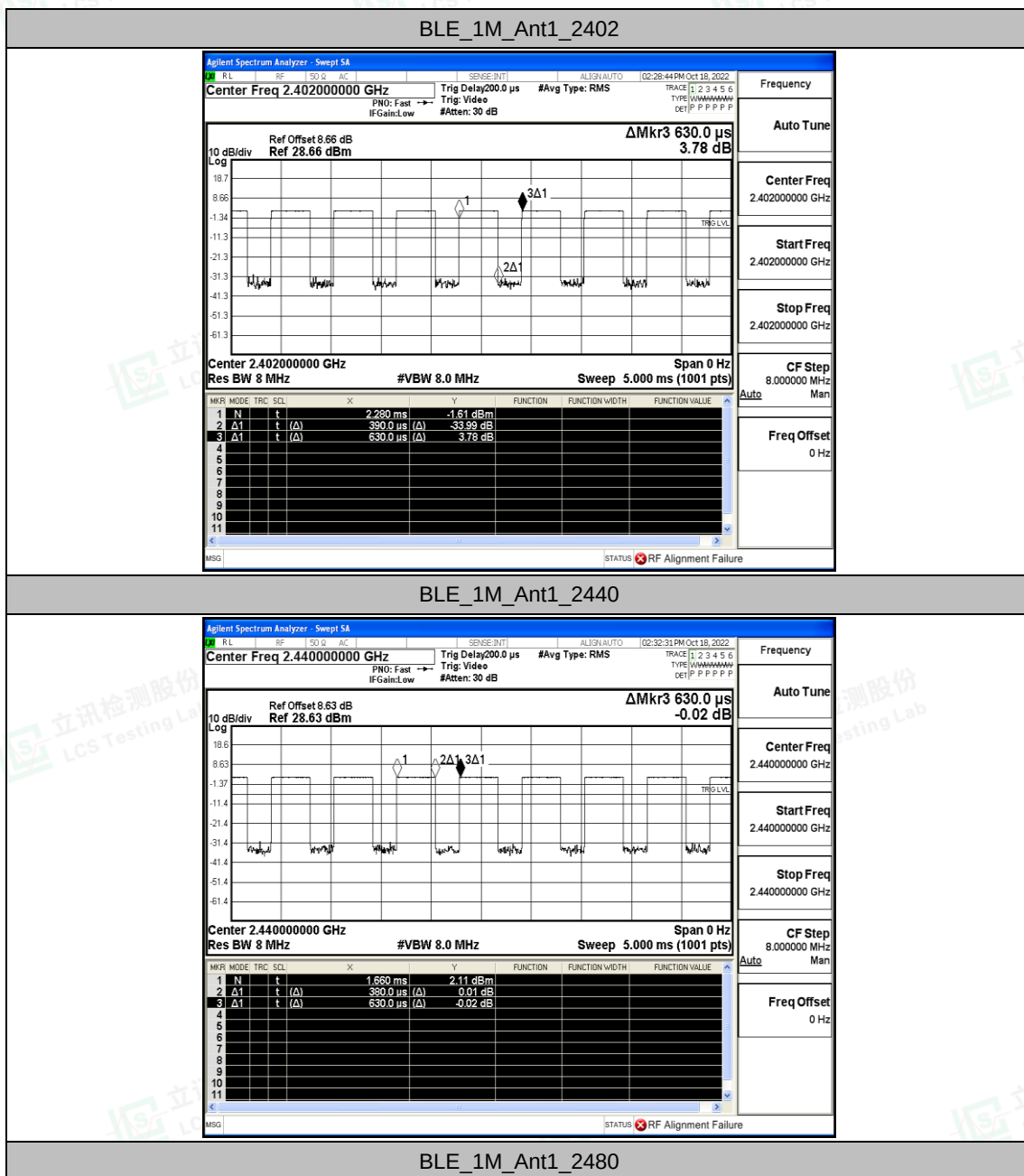
Test Result

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	---	PASS
		2440	0.38	0.63	0.6032	60.32	2.20	2.63	---	PASS
		2480	0.39	0.63	0.6190	61.90	2.08	2.56	---	PASS





Test Graphs

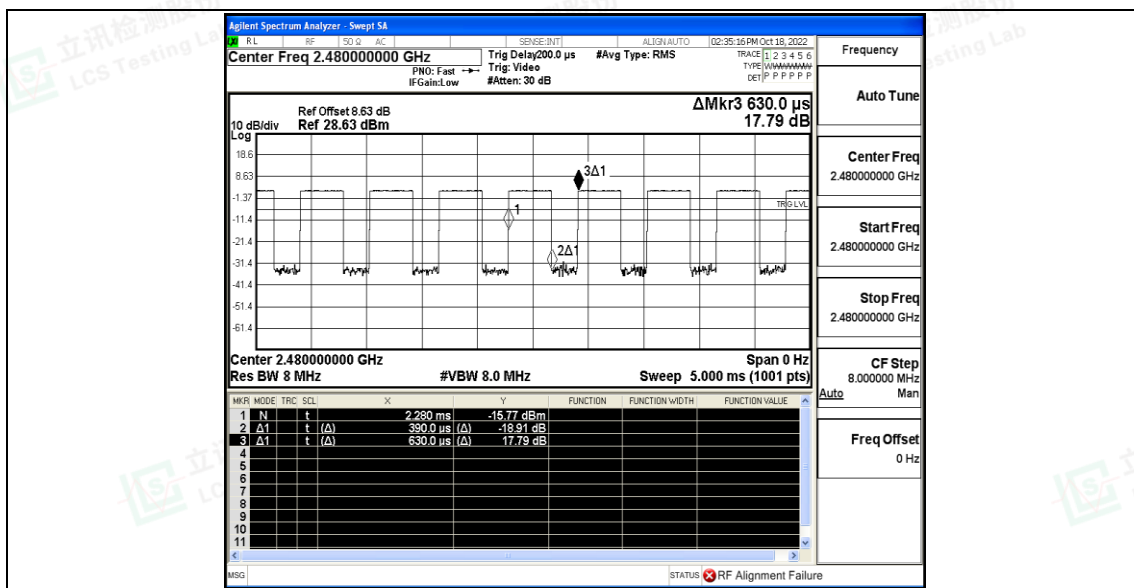


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A.7 Emissions in Restricted Bands

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	-57.35	≤-41.20	37.85	≤54	PASS
				AV	2377.385	-56.5	≤-41.20	38.70	≤54	PASS
				AV	2390.000	-56.8	≤-41.20	38.40	≤54	PASS
				Peak	2310.000	-49.38	≤-21.20	45.82	≤74	PASS
				Peak	2365.730	-48.13	≤-21.20	47.07	≤74	PASS
				Peak	2390.000	-48.47	≤-21.20	46.73	≤74	PASS
		High	2480	AV	2483.500	-52.36	≤-41.20	42.84	≤54	PASS
				AV	2483.520	-52.36	≤-41.20	42.84	≤54	PASS
				AV	2500.000	-56.47	≤-41.20	38.73	≤54	PASS
				Peak	2483.500	-50.14	≤-21.20	45.06	≤74	PASS
				Peak	2492.000	-46.95	≤-21.20	48.25	≤74	PASS
				Peak	2500.000	-49.66	≤-21.20	45.54	≤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

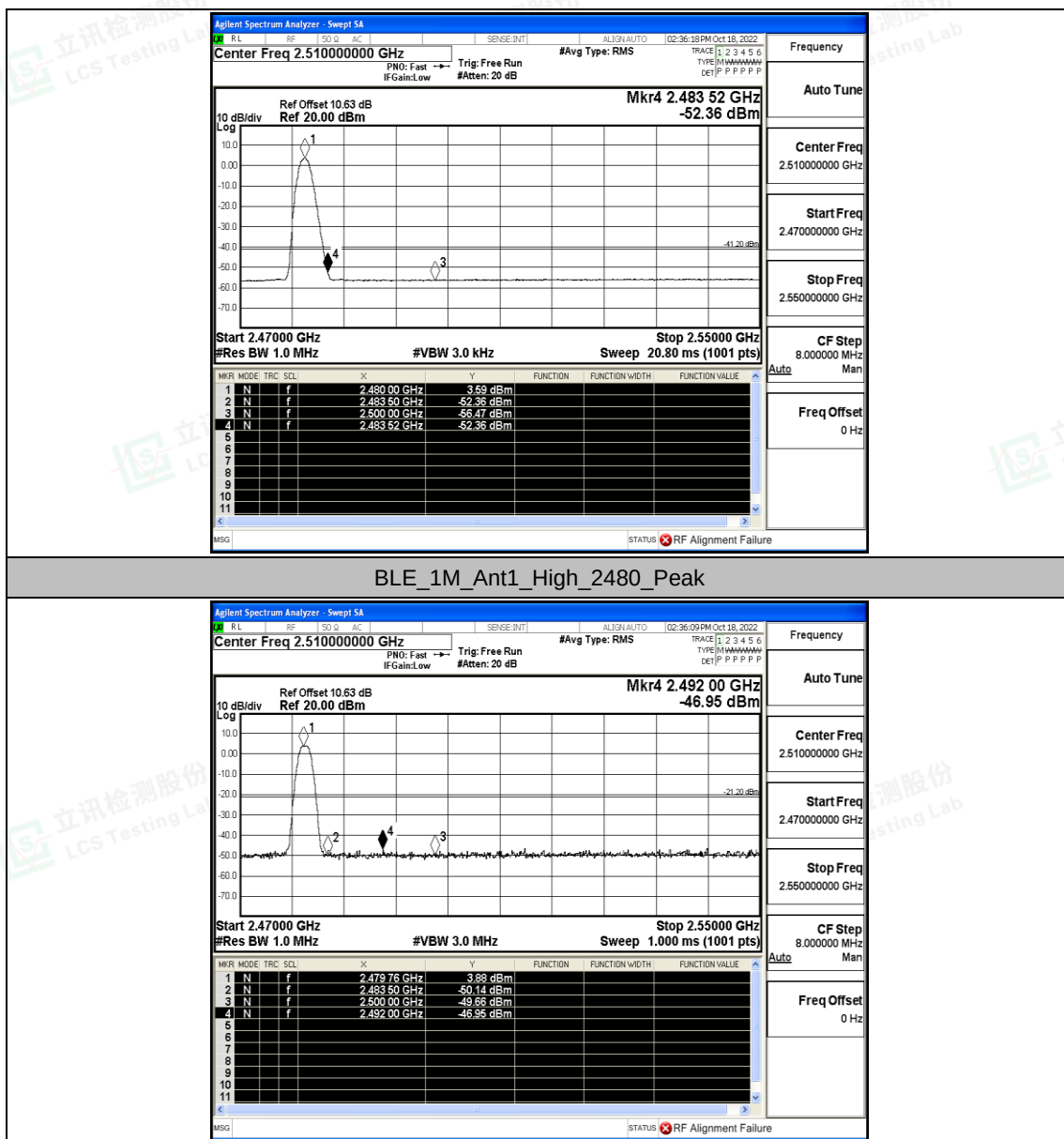


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