



Appendix C

RF Test Data for Zigbee(Conducted Measurement)

Product Name: Brivo Gateway

Test Model: B-Gateway V5-M2

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu



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C.1 DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
ZIGB	Ant1	2405	1.630	2404.160	2405.790	0.5	PASS
		2445	1.630	2444.160	2445.790	0.5	PASS
		2480	1.630	2479.160	2480.790	0.5	PASS



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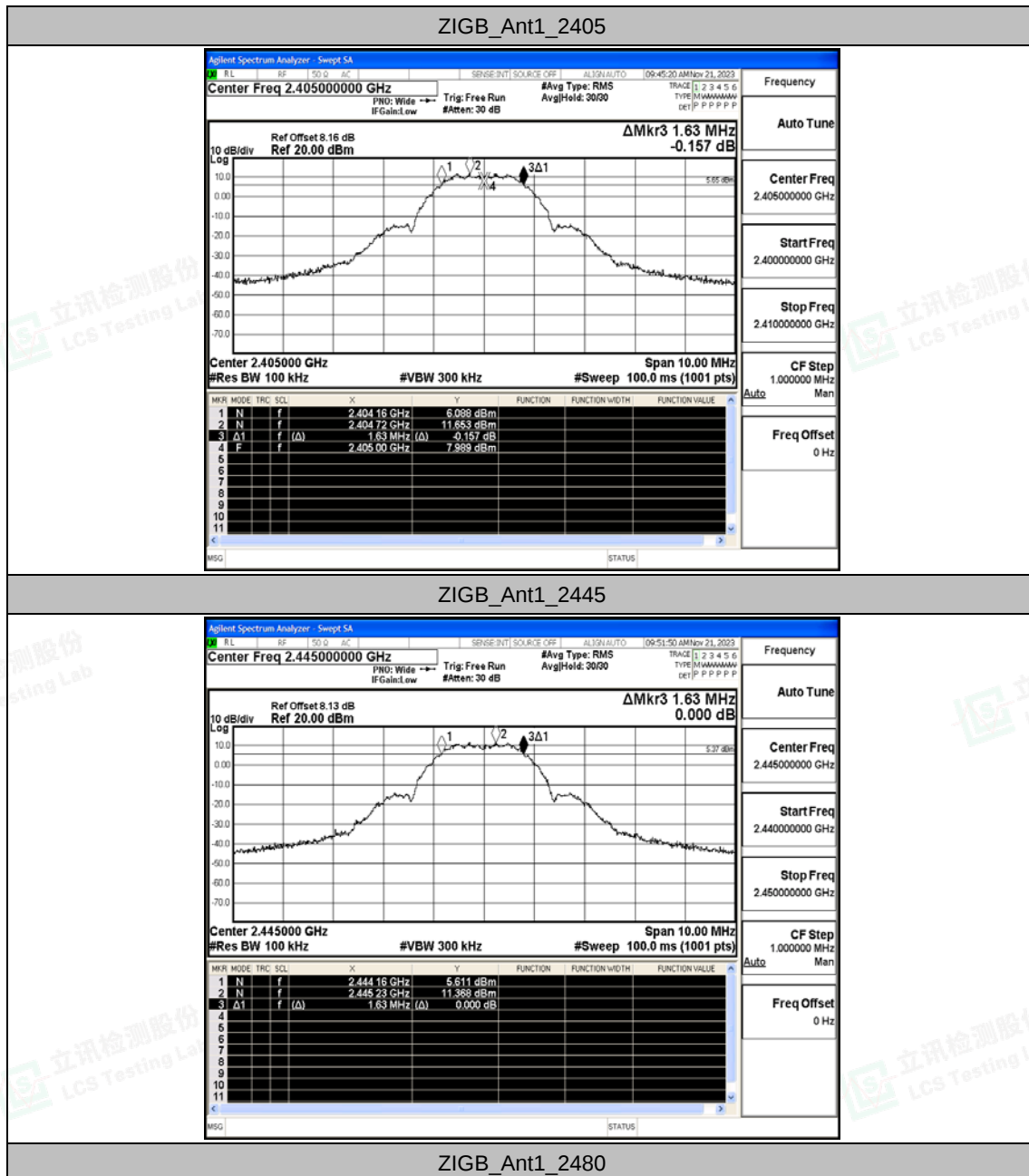
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Test Graphs

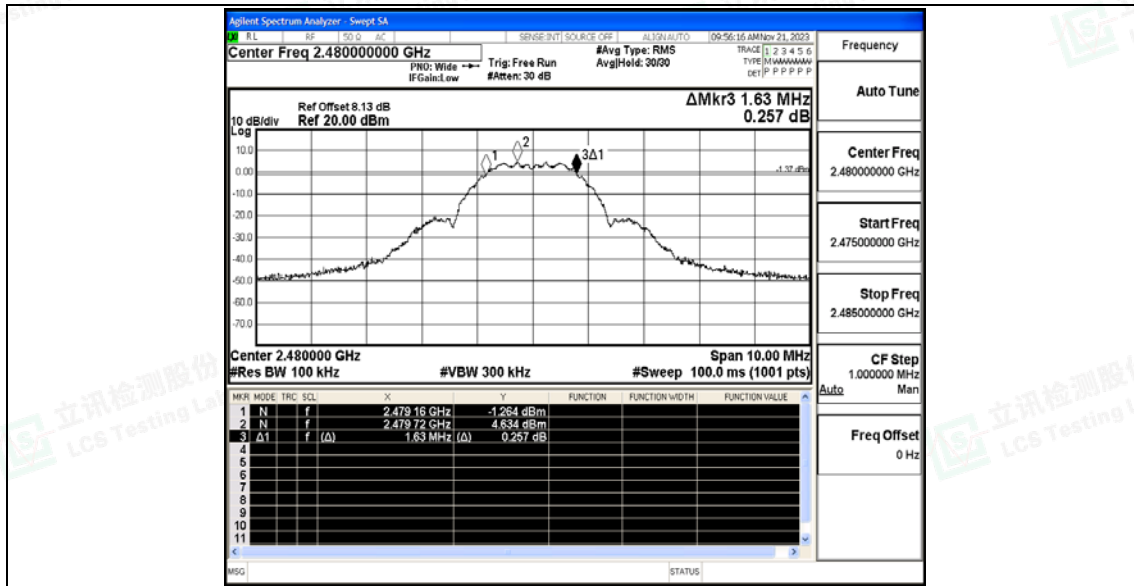


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C.2 Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
ZIGB	Ant1	2405	15.35	≤30	PASS
		2440	15.03	≤30	PASS
		2480	8.38	≤30	PASS



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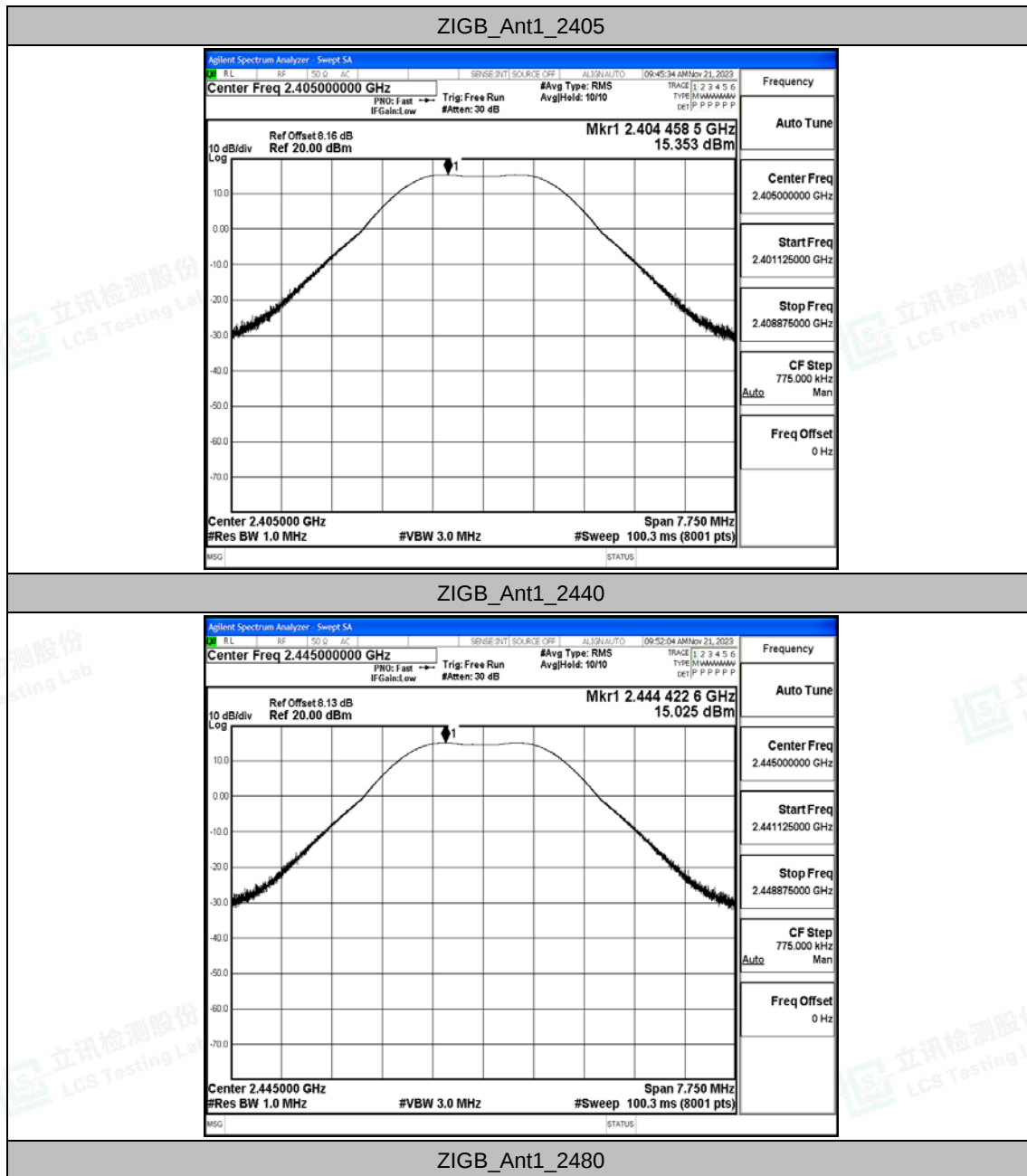
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Test Graphs

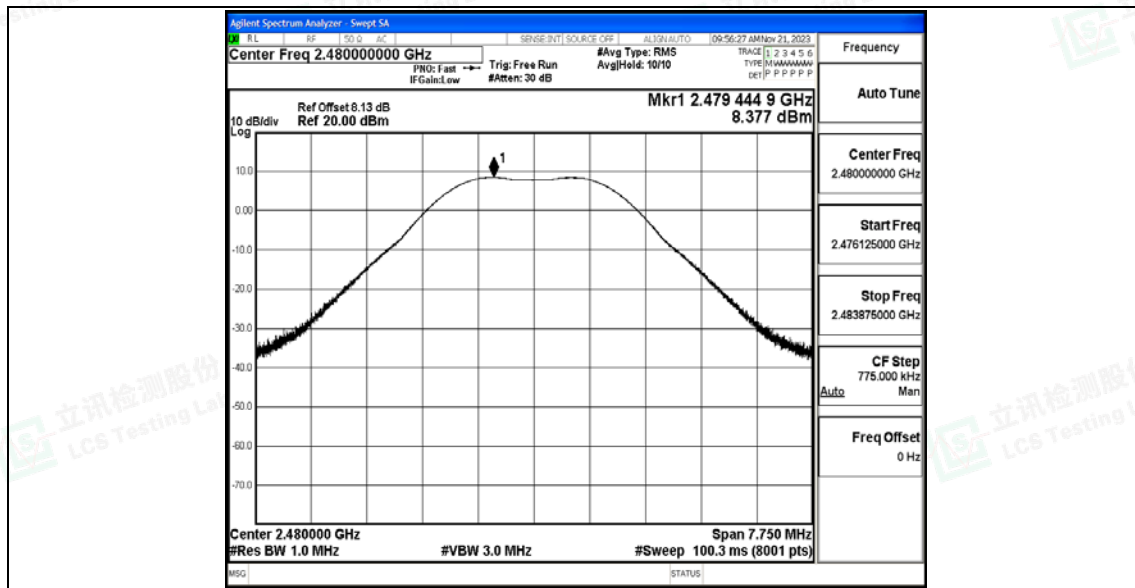


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C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
ZIGB	Ant1	2405	1.47	≤8.00	PASS
		2440	2.5	≤8.00	PASS
		2480	-5.2	≤8.00	PASS



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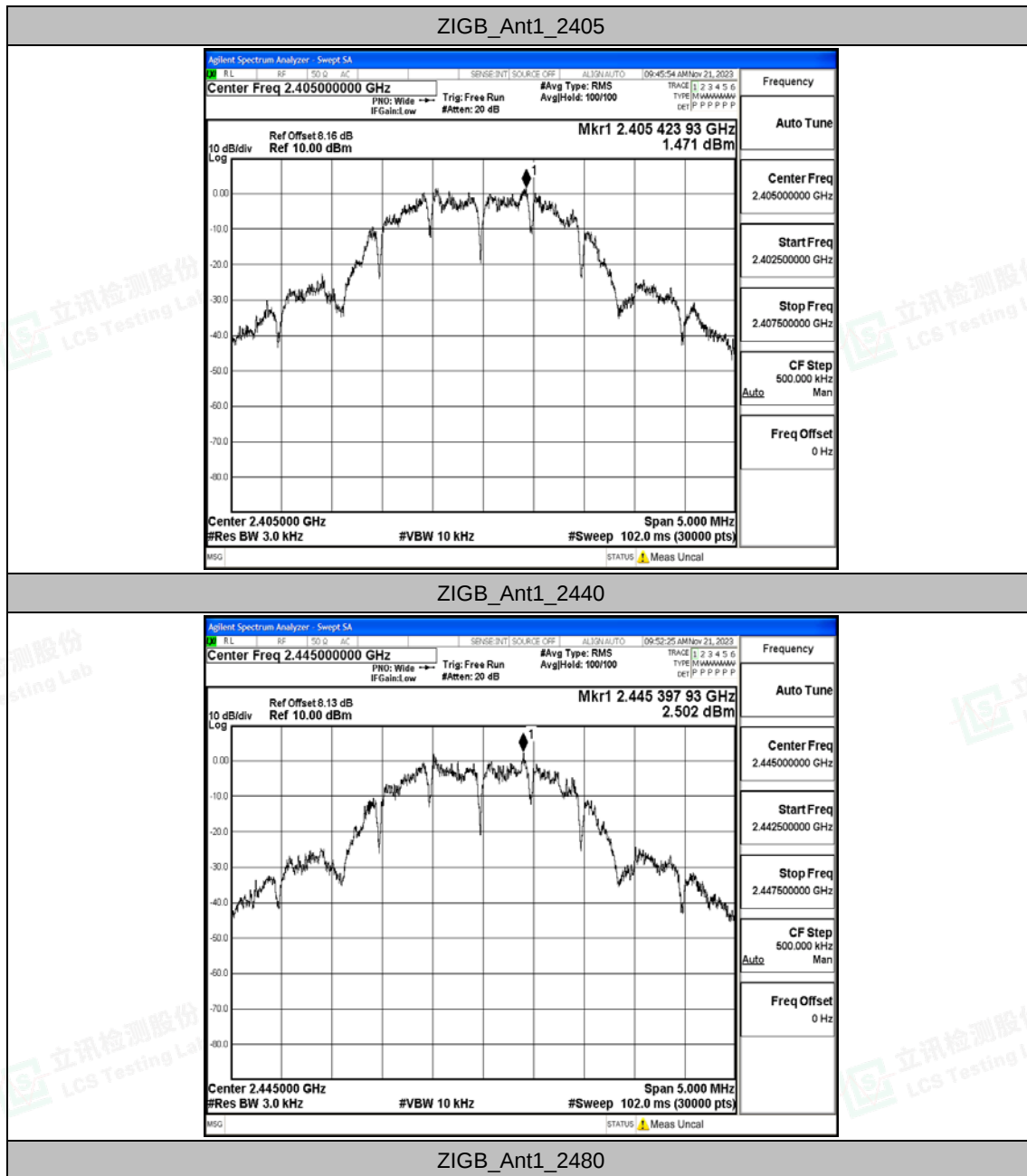
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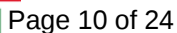


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C.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
ZIGB	Ant1	Low	2405	11.56	-42.1	≤ -8.44	PASS
		High	2480	4.19	-46.04	≤ -15.81	PASS



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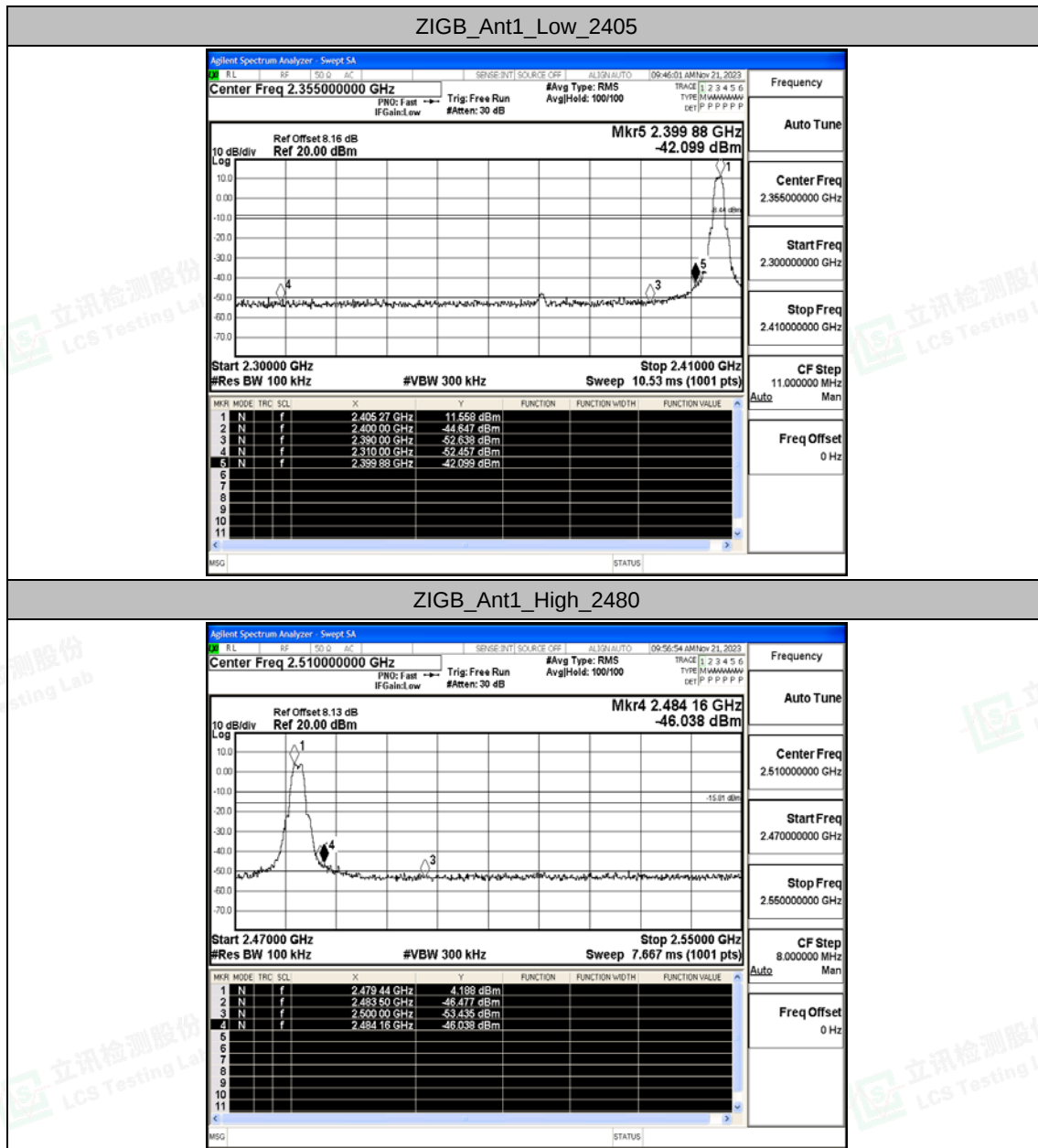
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Test Graphs



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C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
ZIGB	Ant1	2405	Reference	10.31	10.31	---	PASS
			30~1000	10.31	-61.22	≤-9.69	PASS
			1000~26500	10.31	-49.2	≤-9.69	PASS
		2440	Reference	9.48	9.48	---	PASS
			30~1000	9.48	-61.31	≤-10.52	PASS
			1000~26500	9.48	-48.94	≤-10.52	PASS
		2480	Reference	4.49	4.49	---	PASS
			30~1000	4.49	-61.57	≤-15.51	PASS
			1000~26500	4.49	-49.09	≤-15.51	PASS



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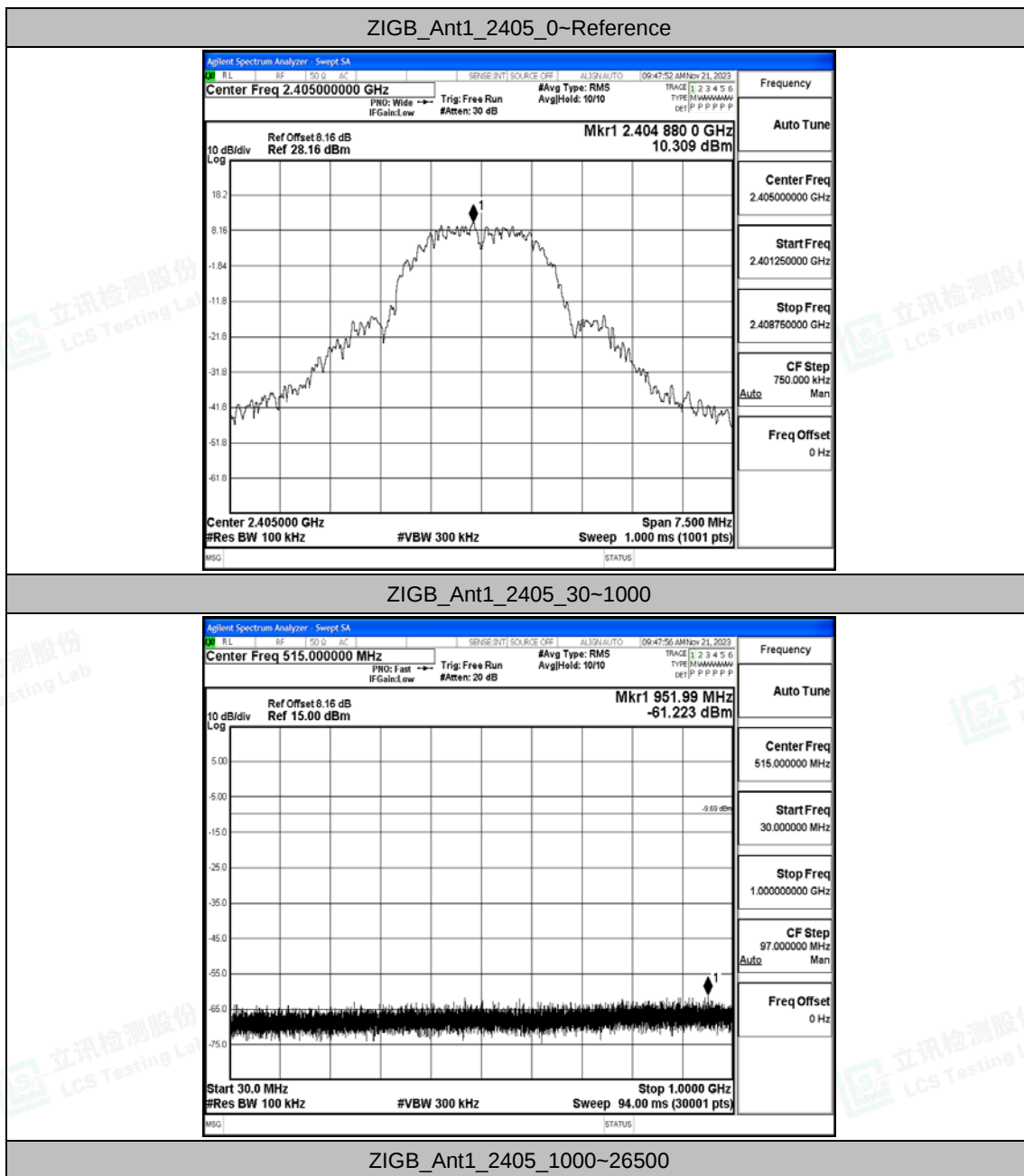
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Test Graphs

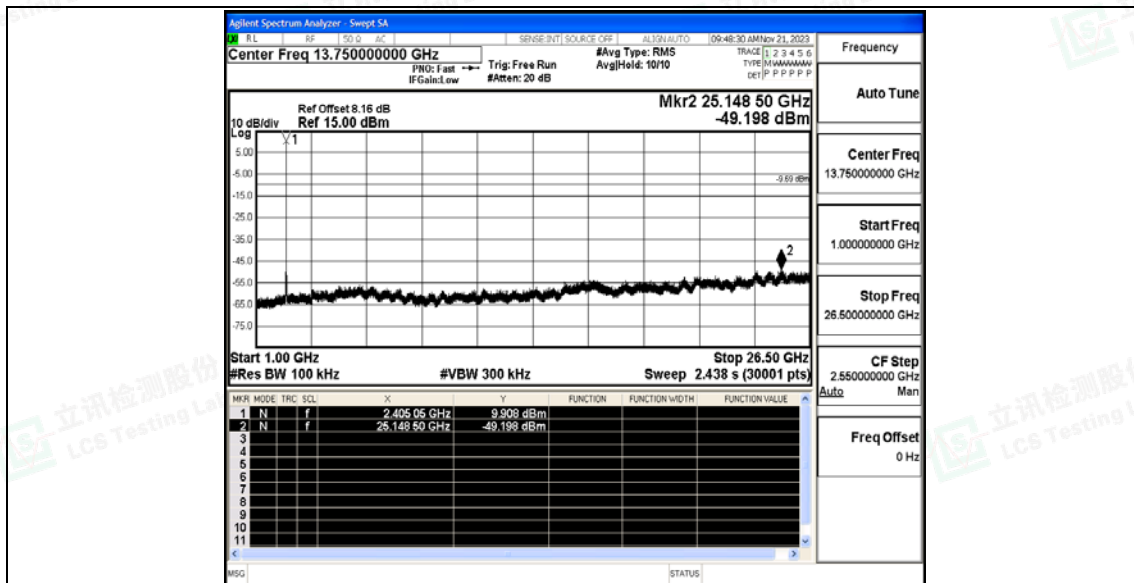


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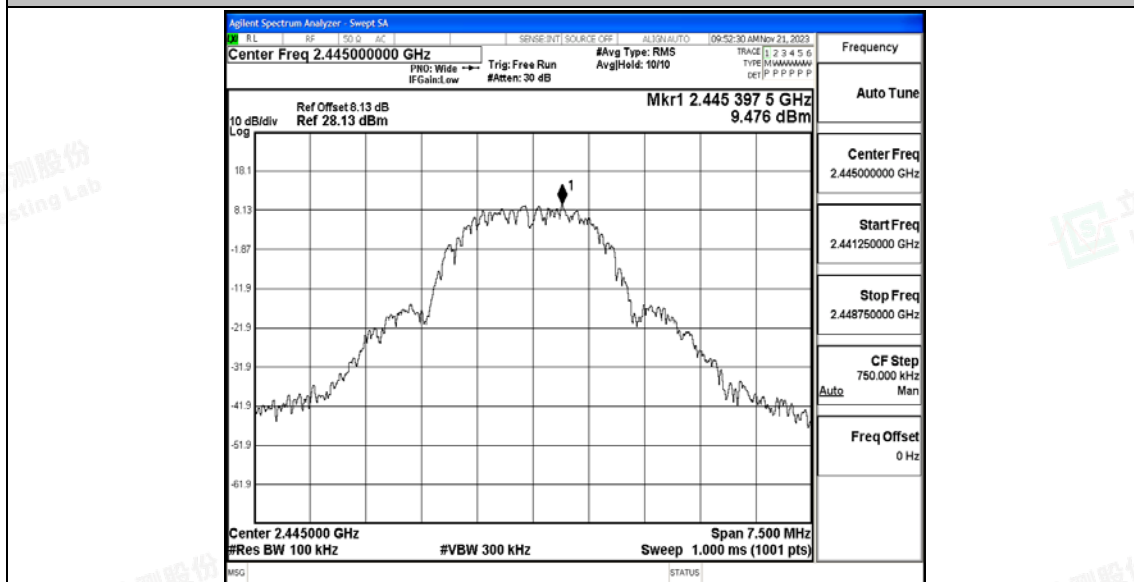
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ZIGB_Ant1_2440_0~Reference



ZIGB_Ant1_2440_30~1000

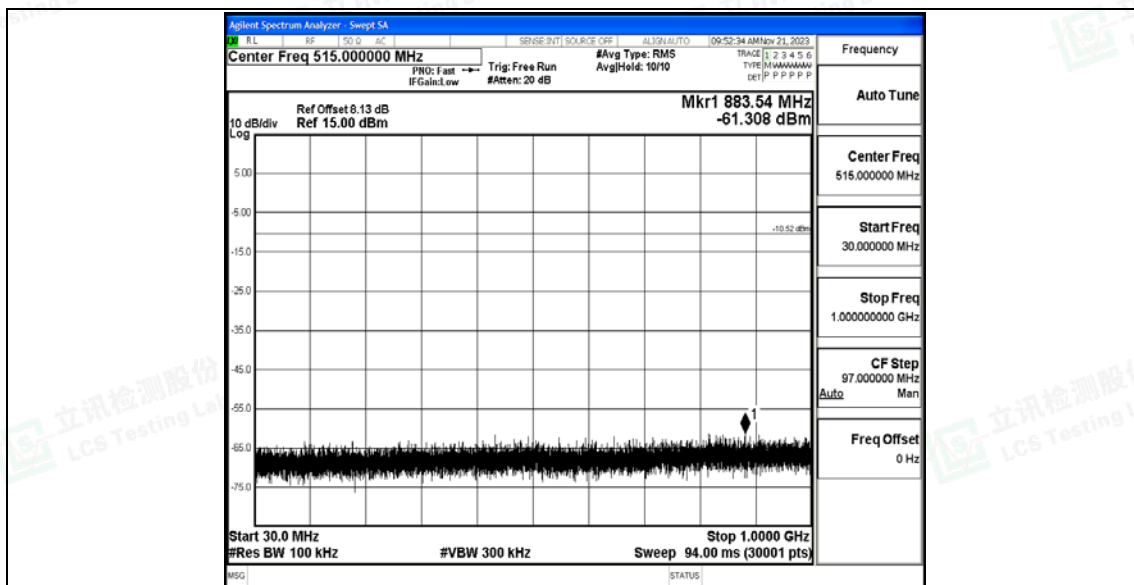


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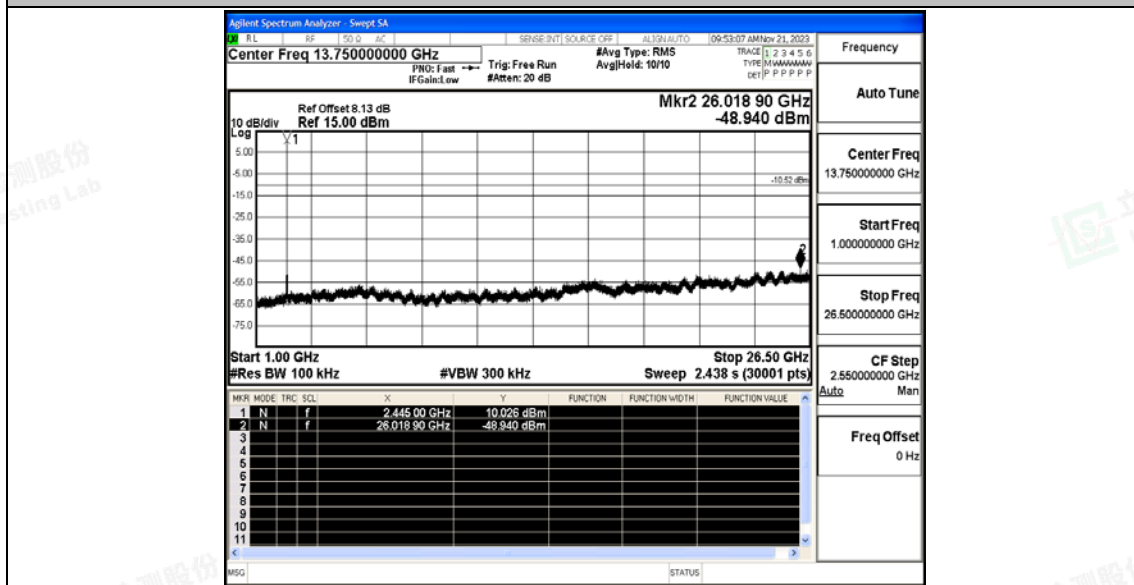
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ZIGB_Ant1_2440_1000~26500



ZIGB_Ant1_2480_0~Reference

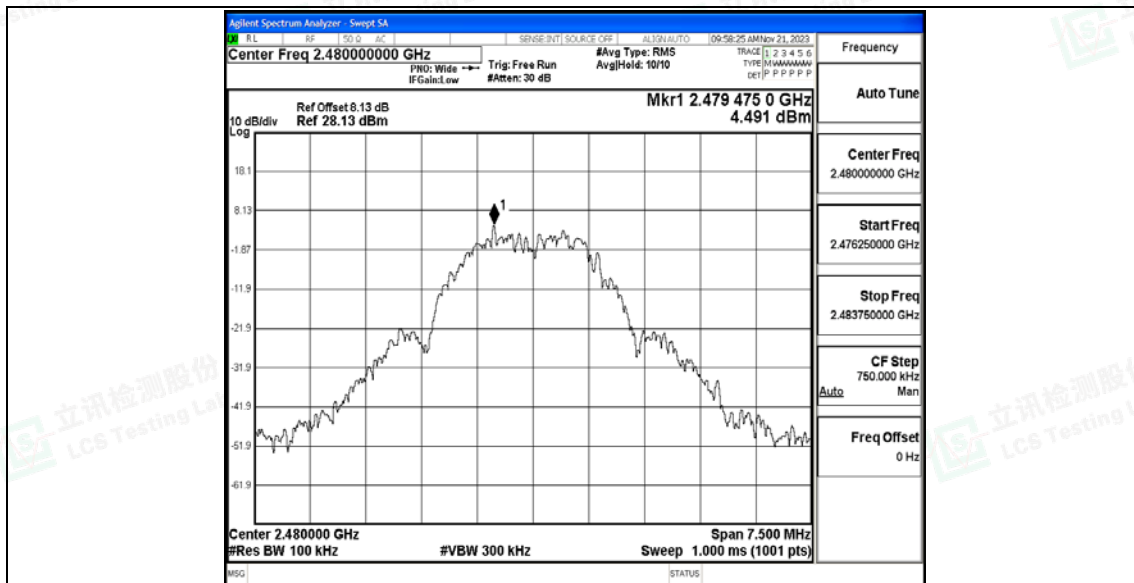


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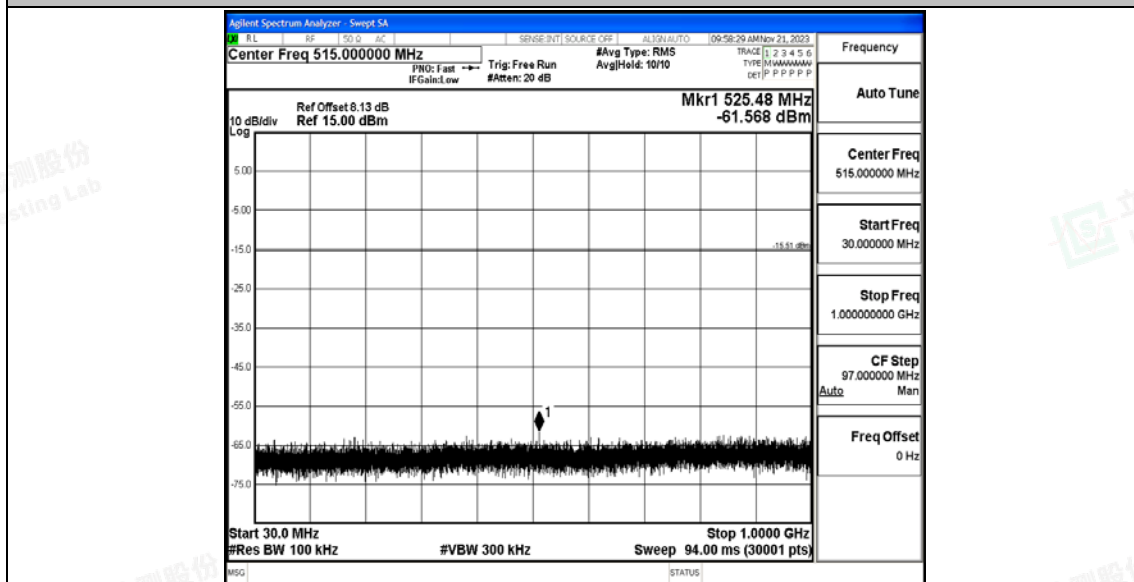
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ZIGB_Ant1_2480_30~1000



ZIGB_Ant1_2480_1000~26500

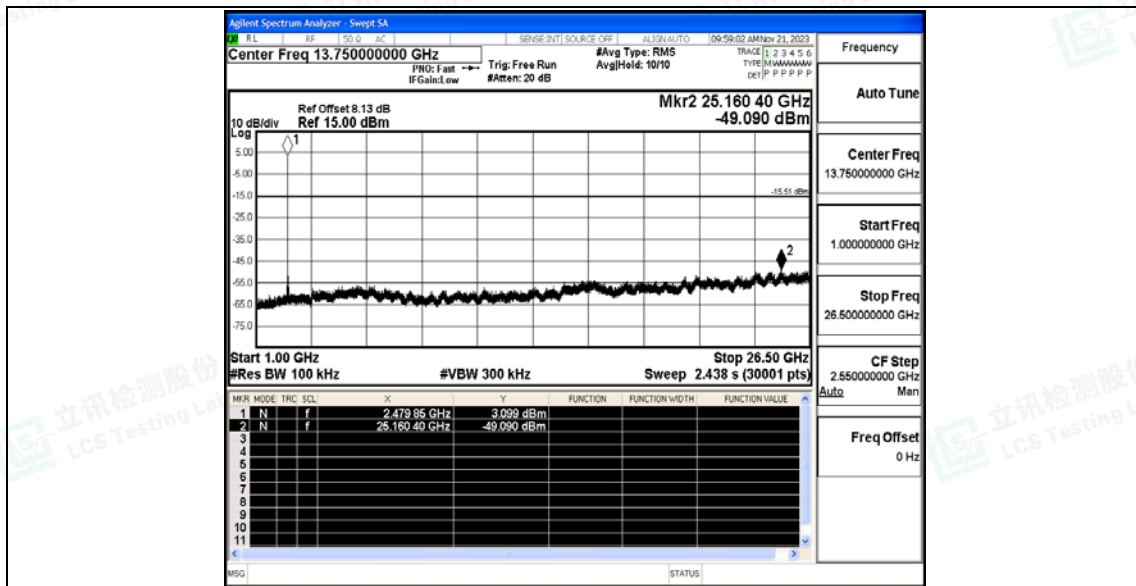


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C.6 Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
ZIGB	Ant1	2405	20.00	20.00	100.00	---	PASS
		2440	20.00	20.00	100.00	---	PASS
		2480	20.00	20.00	100.00	---	PASS



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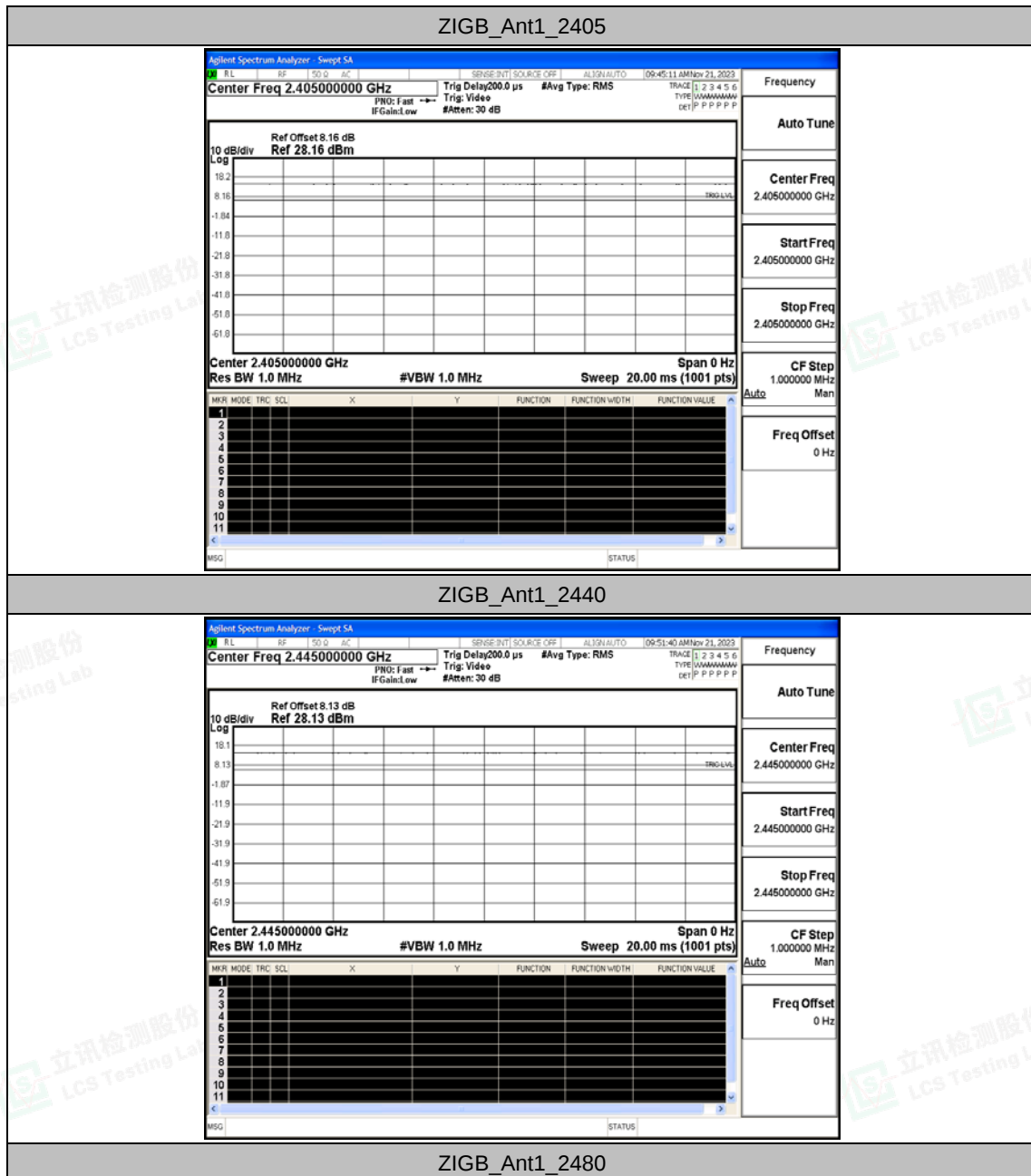
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Test Graphs

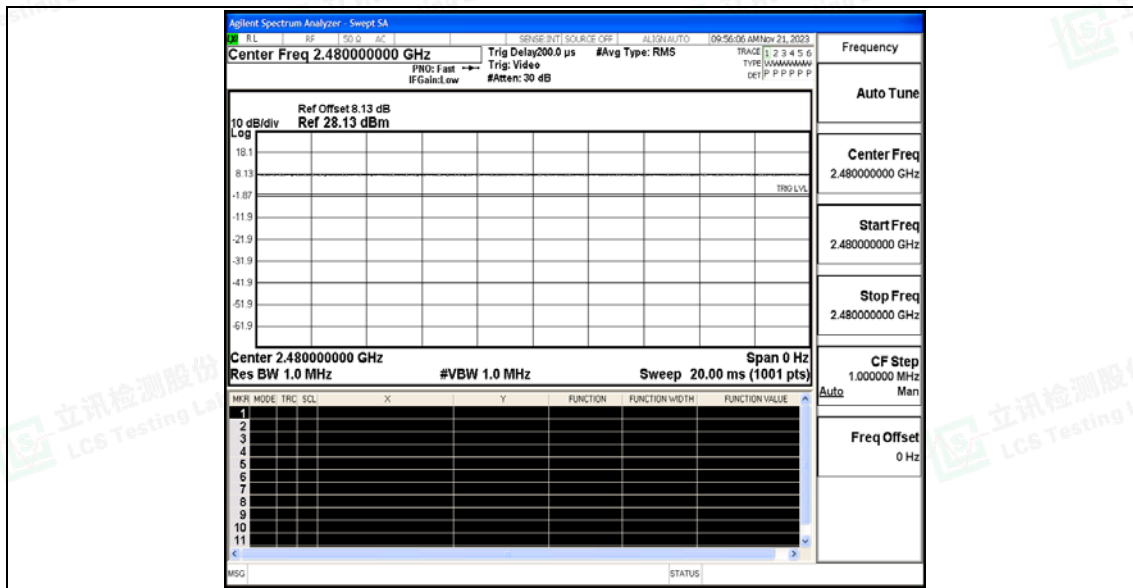


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C.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
ZIGB	Ant1	Low	2405	AV	2310.000	-49.48	≤-41.20	PASS
				AV	2366.440	-44.51	≤-41.20	PASS
				AV	2390.000	-48.57	≤-41.20	PASS
				Peak	2310.000	-43.98	≤-21.20	PASS
				Peak	2365.890	-38.39	≤-21.20	PASS
				Peak	2390.000	-43.13	≤-21.20	PASS
		High	2480	AV	2483.500	-42.17	≤-41.20	PASS
				AV	2483.520	-42.17	≤-41.20	PASS
				AV	2500.000	-49.09	≤-41.20	PASS
				Peak	2483.500	-38.82	≤-21.20	PASS
				Peak	2483.840	-37.48	≤-21.20	PASS
				Peak	2500.000	-43.5	≤-21.20	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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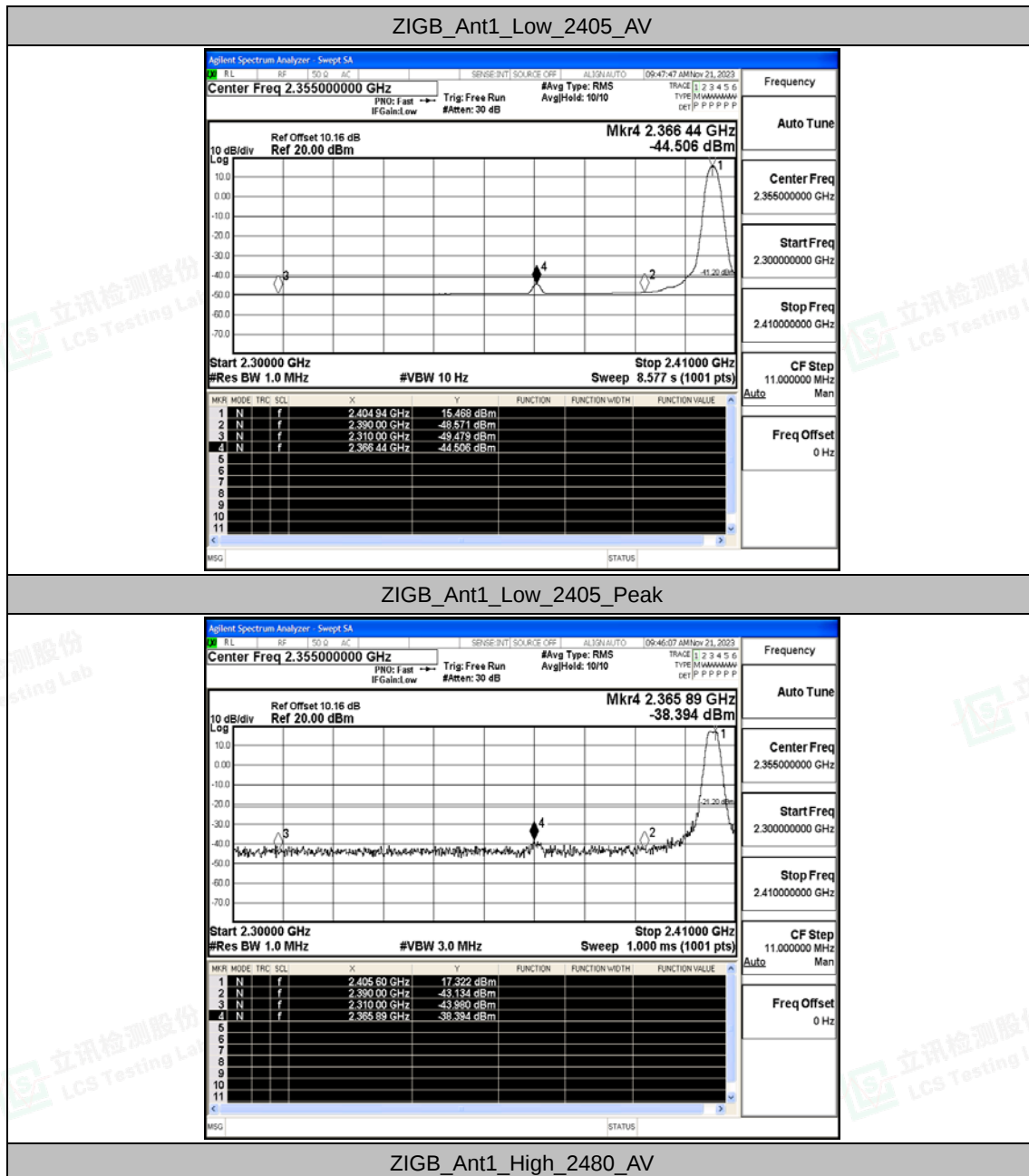
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Test Graphs

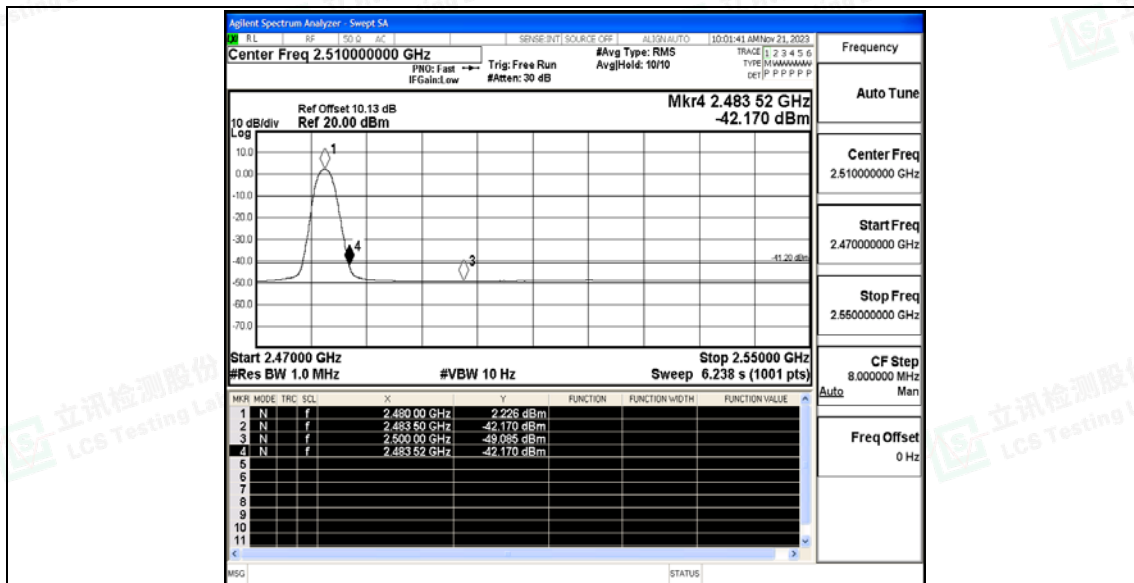


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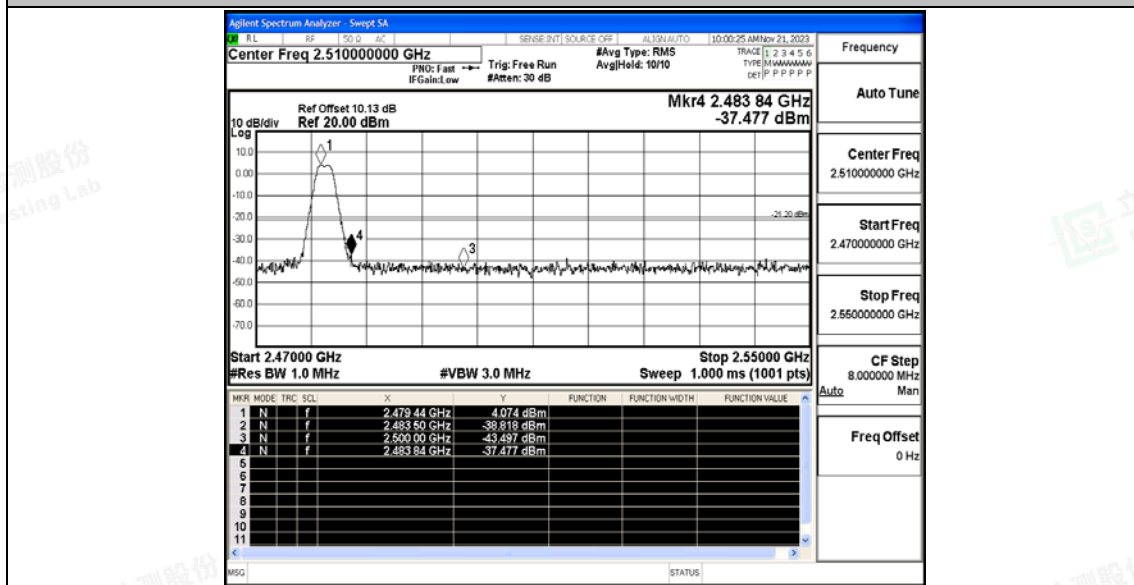
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ZIGB_Ant1_High_2480_Peak



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