



Appendix B

RF Test Data for BT (BLE) (Conducted Measurement)

Product Name: CUBE

Trade Mark: GANCUBE

Test Model: GAN i carry 4

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung

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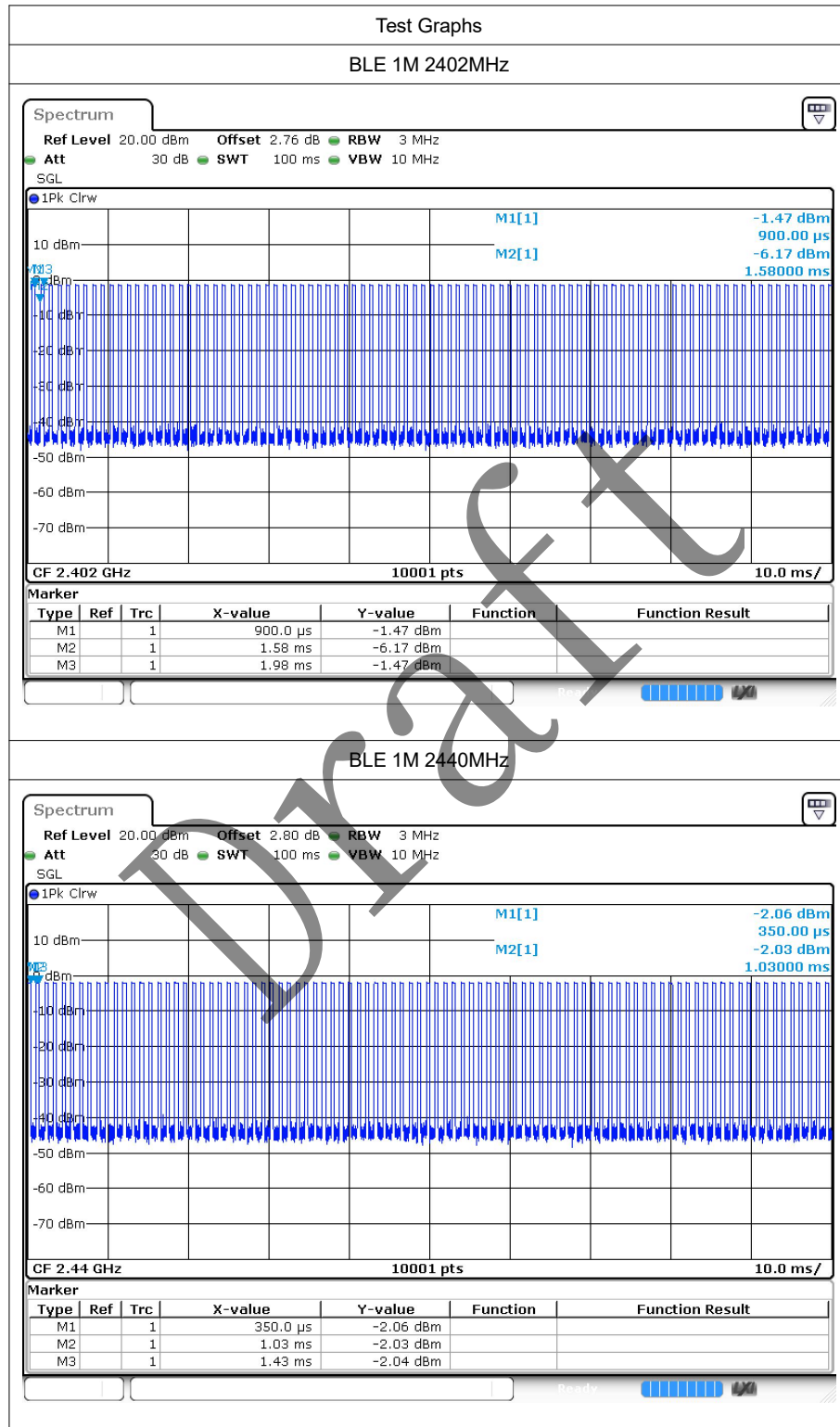
1 Duty Cycle

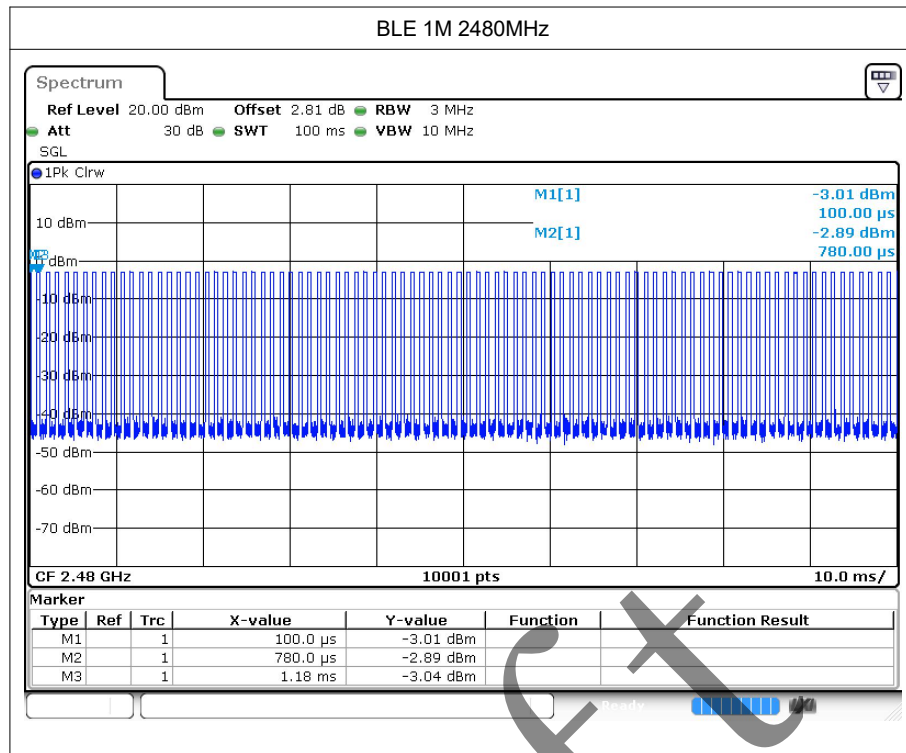
1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
BLE 1M	2402	37.7	4.24	2.5
BLE 1M	2440	37.72	4.23	2.5
BLE 1M	2480	37.47	4.26	2.5

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1.2 Test Graphs





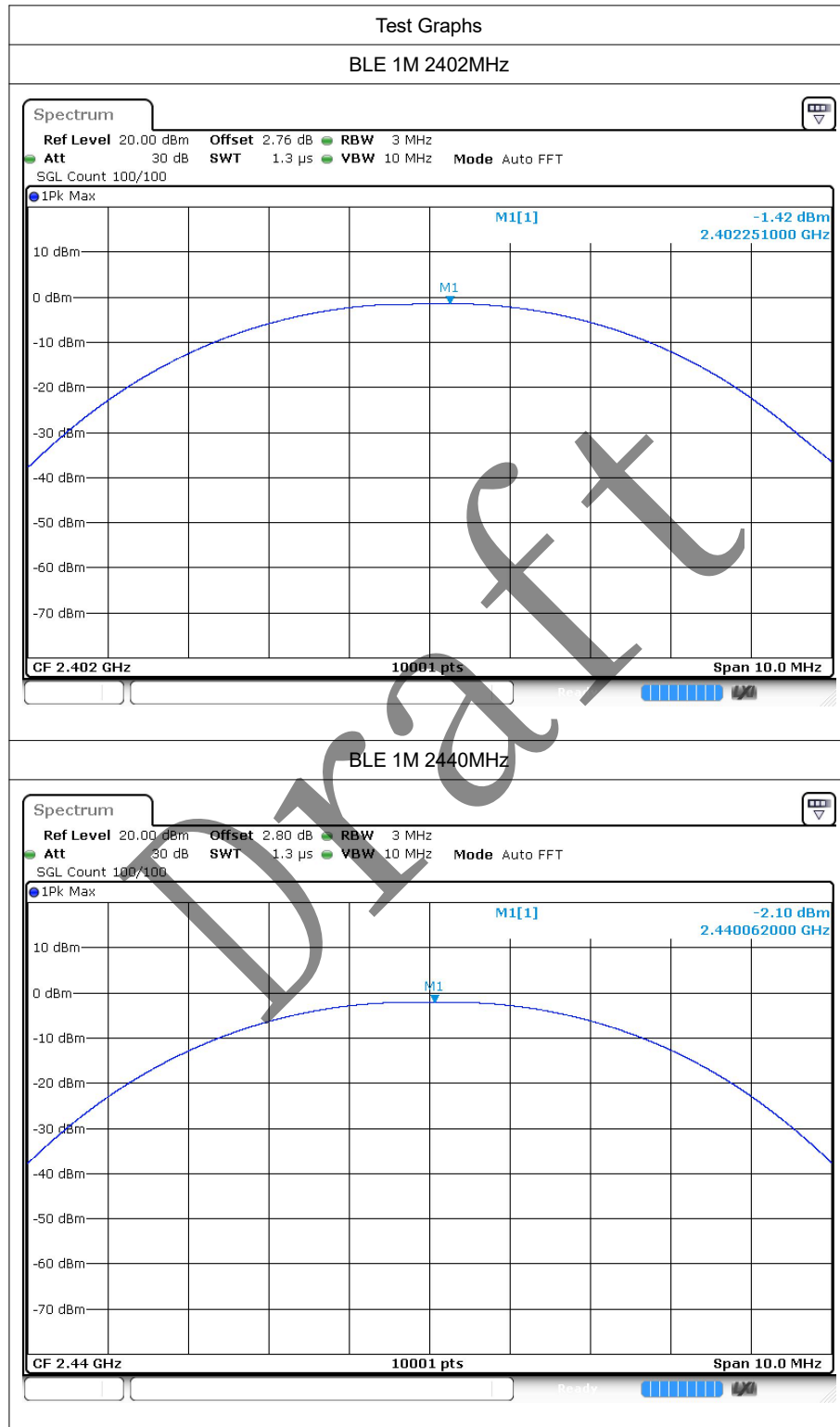
2 Maximum Conducted Output Power

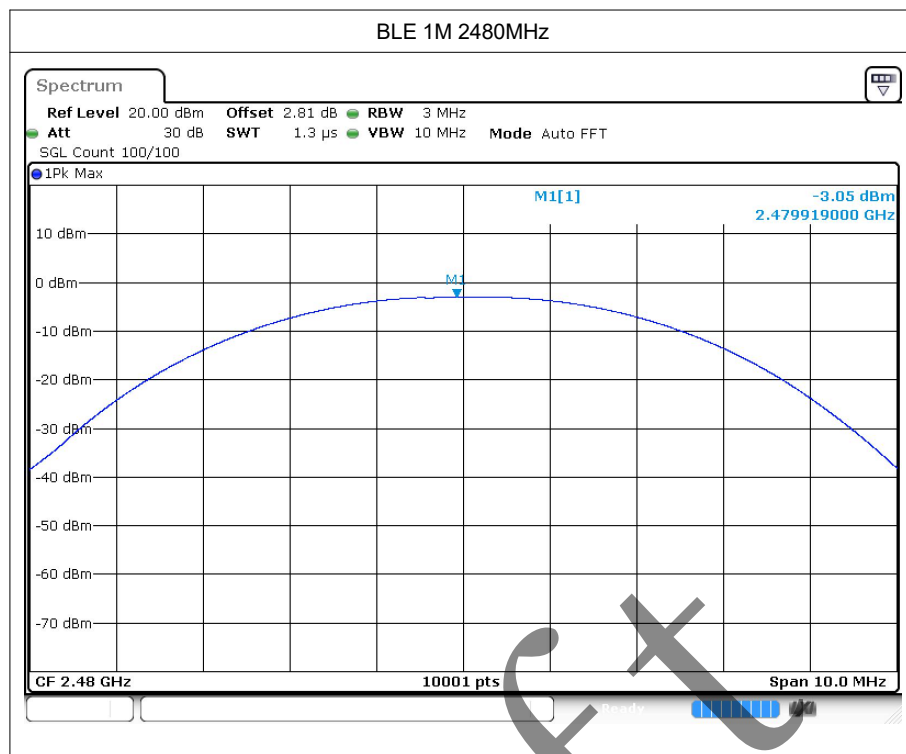
2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	-1.42	30	Pass
BLE 1M	2440	-2.1	30	Pass
BLE 1M	2480	-3.05	30	Pass

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2.2 Test Graphs





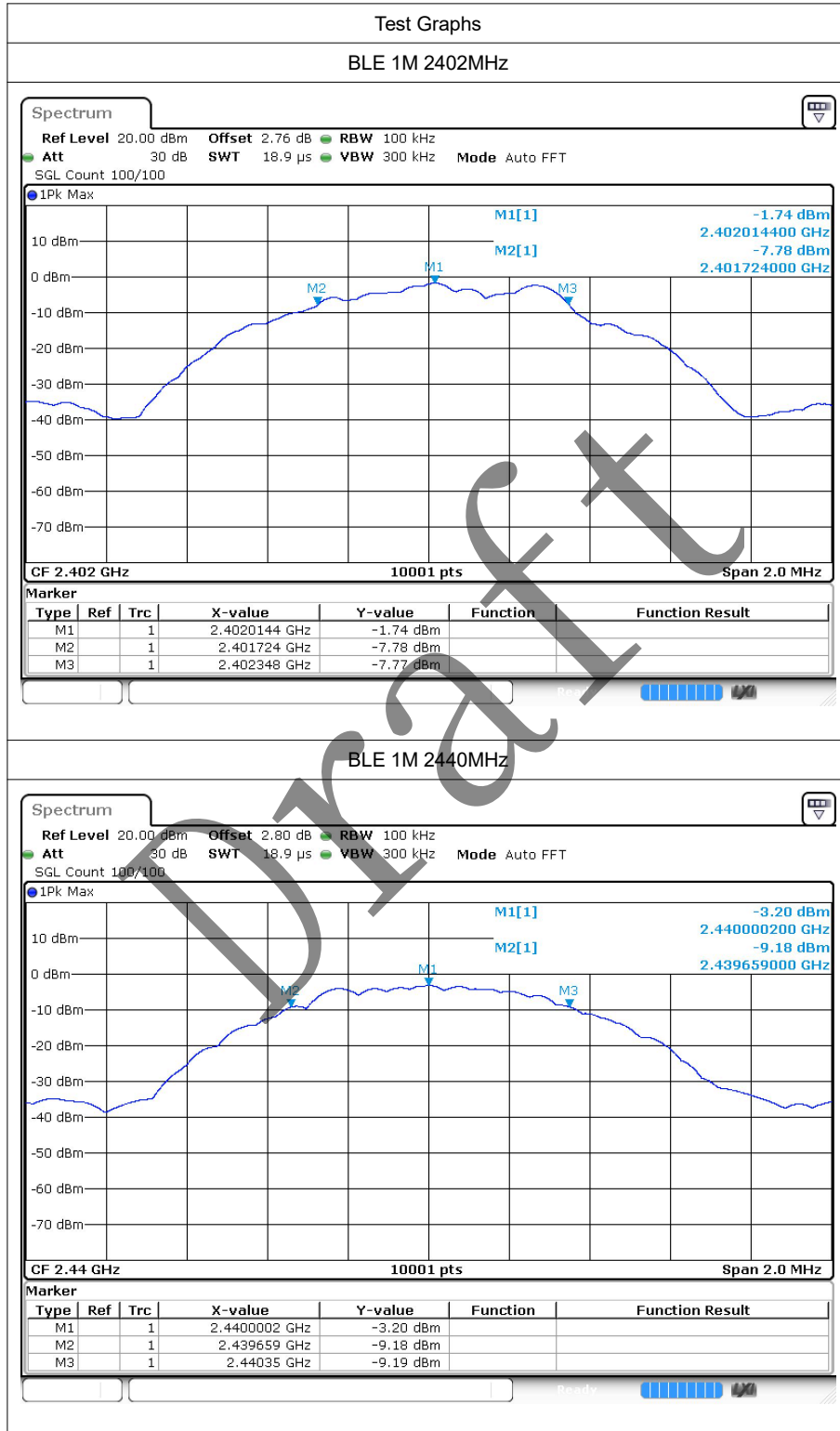
3 -6dB Bandwidth

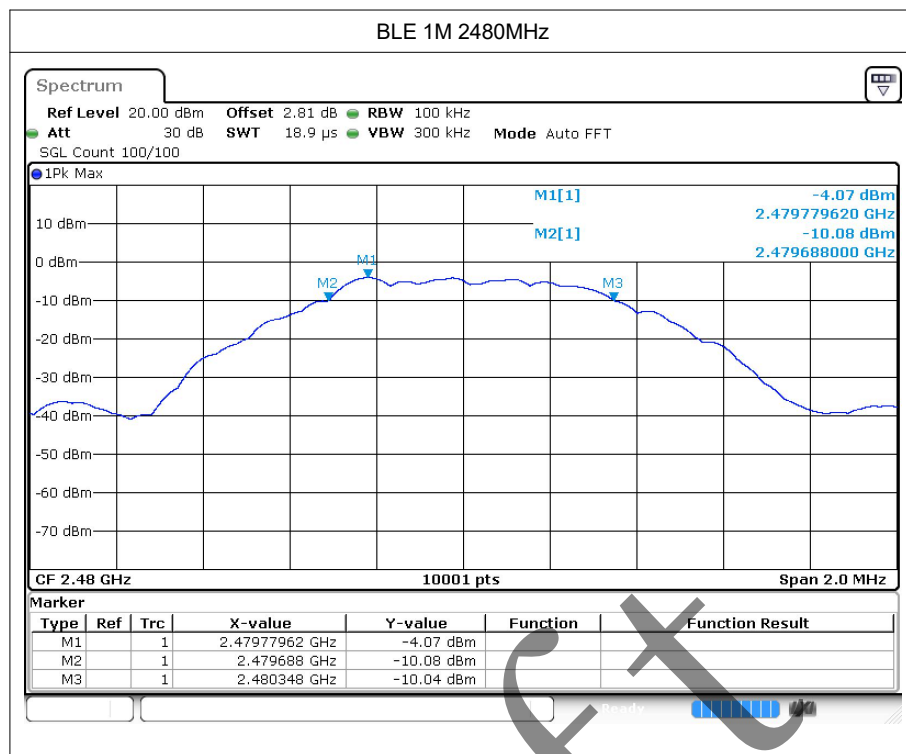
3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.623	0.5	Pass
BLE 1M	2440	0.692	0.5	Pass
BLE 1M	2480	0.66	0.5	Pass

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3.2 Test Graphs





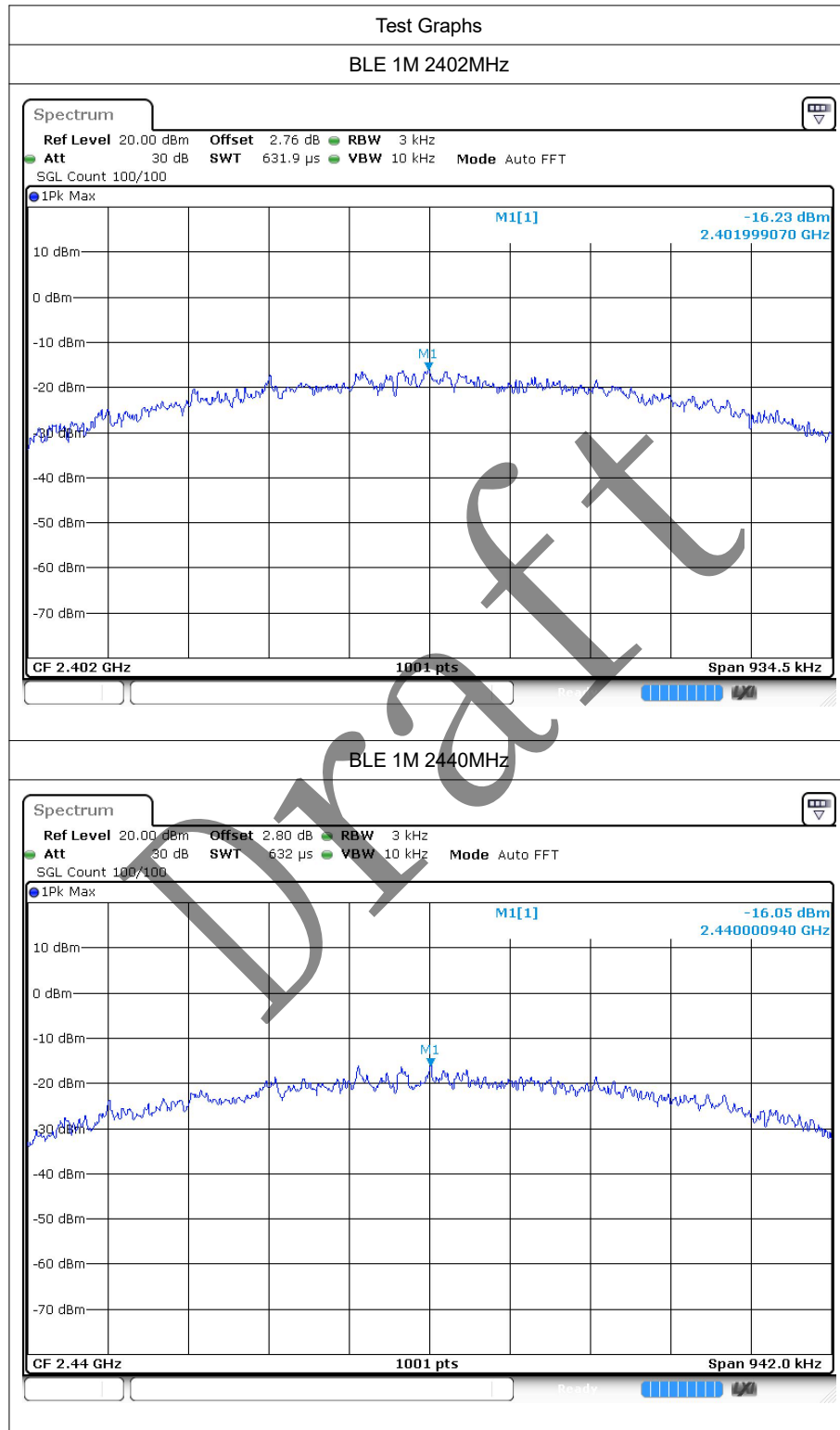
4 Maximum Power Spectral Density Level

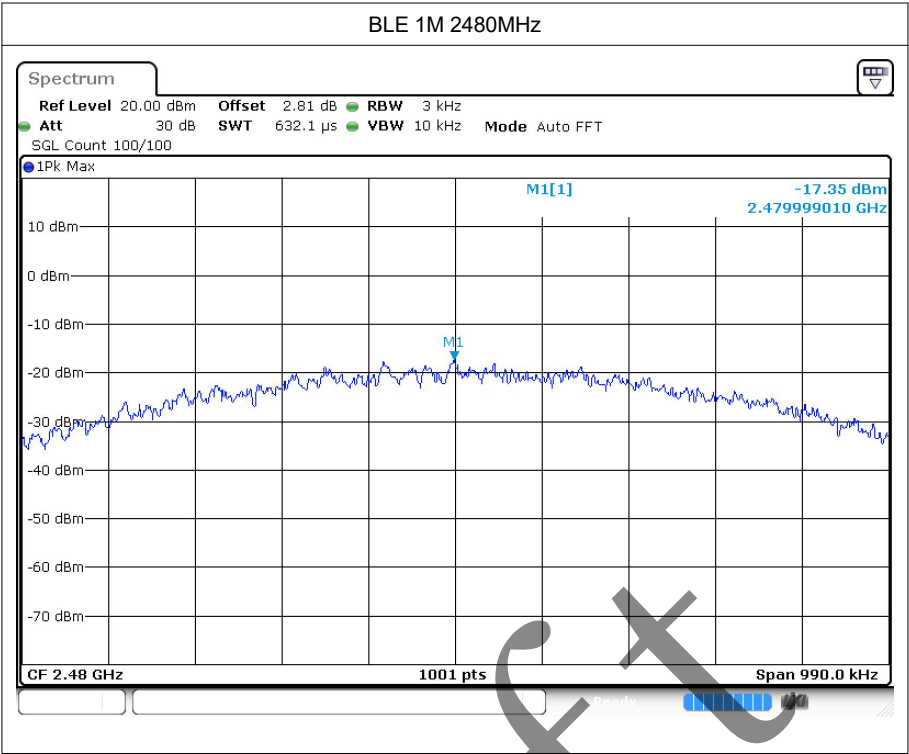
4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-16.23	≤ 8	Pass
BLE 1M	2440	-16.05	≤ 8	Pass
BLE 1M	2480	-17.35	≤ 8	Pass

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4.2 Test Graphs





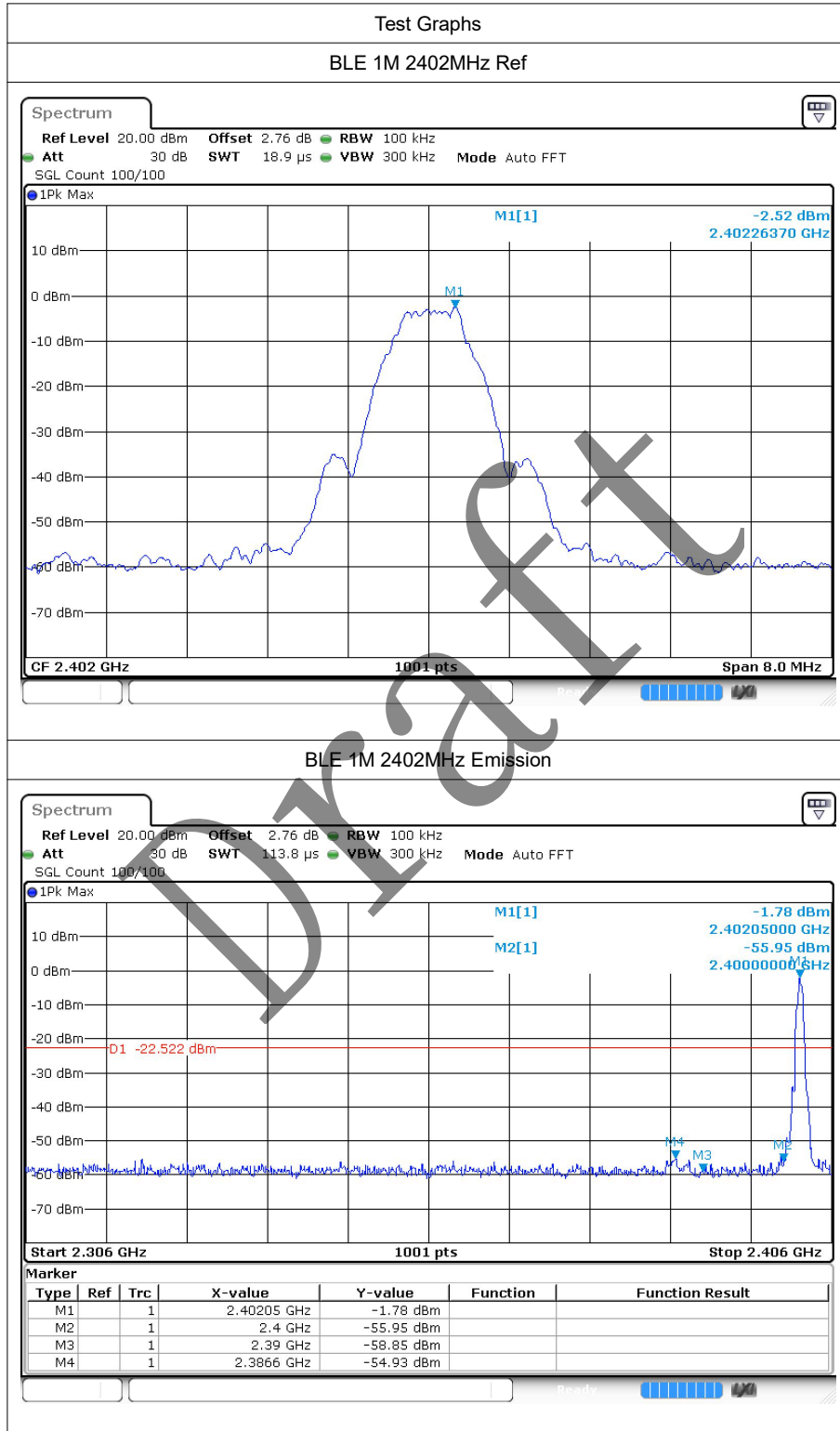
5 Band Edge

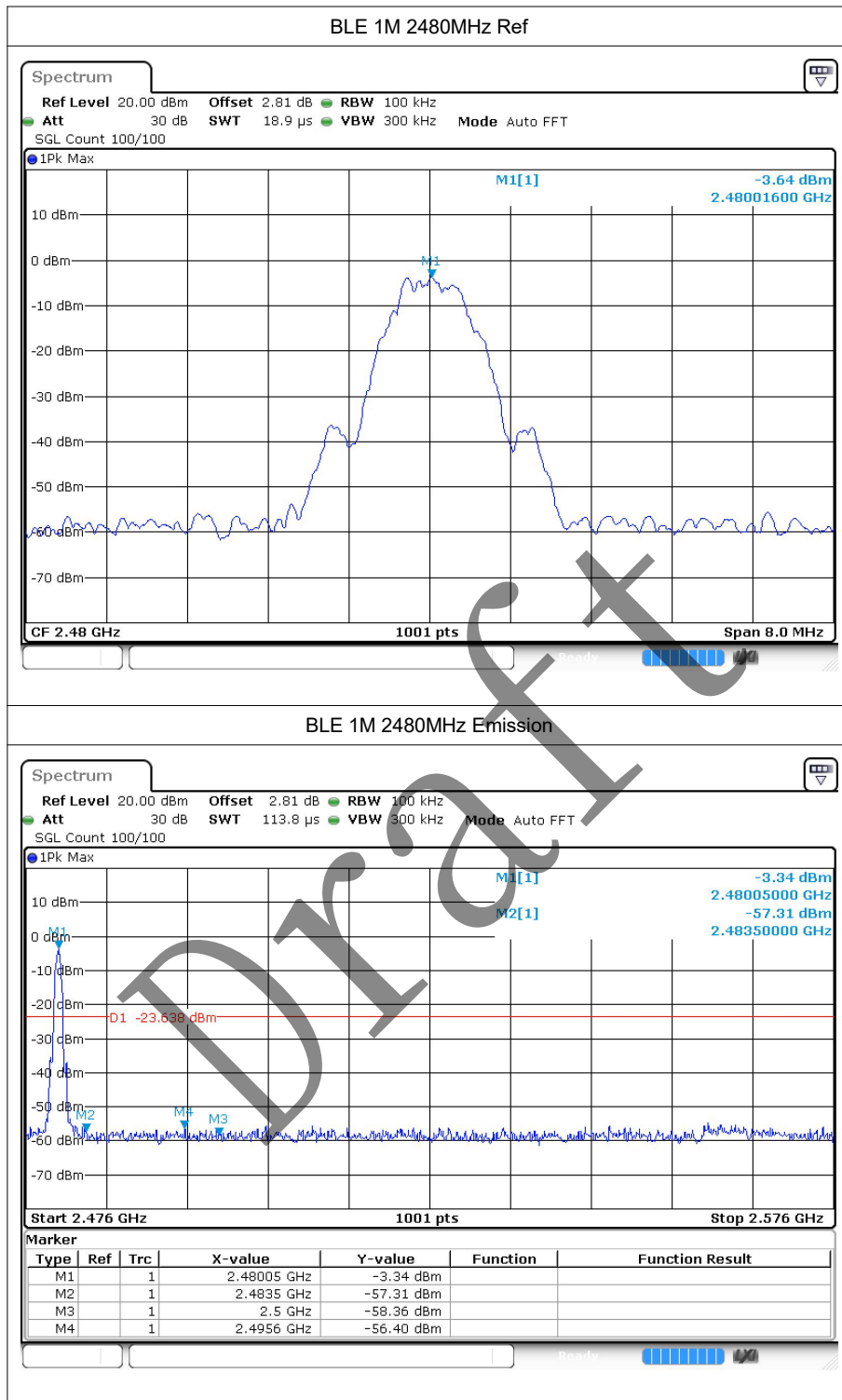
5.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-52.4	-20	Pass
BLE 1M	2480	-52.75	-20	Pass

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5.2 Test Graphs





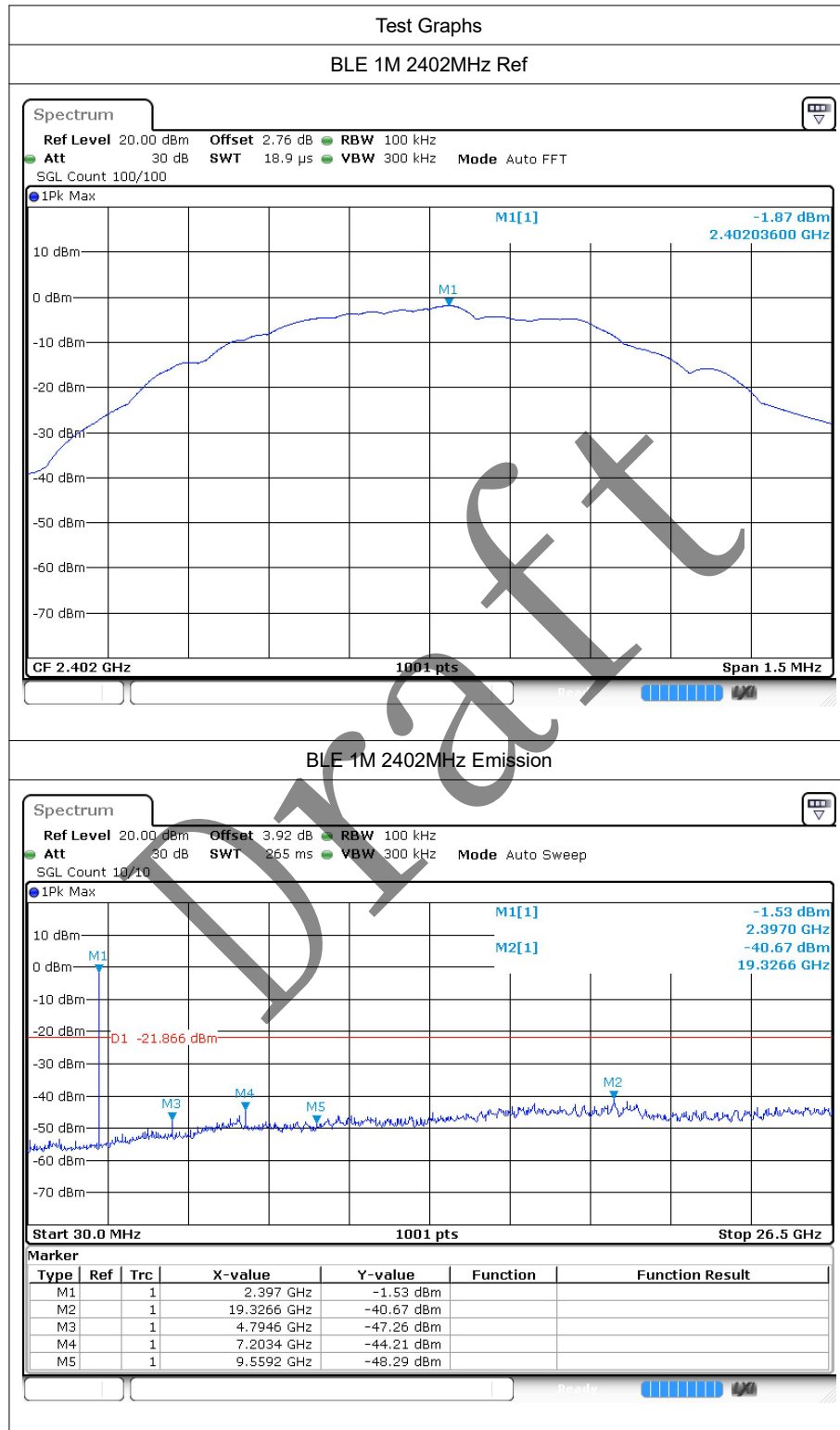
6 Conducted RF Spurious Emission

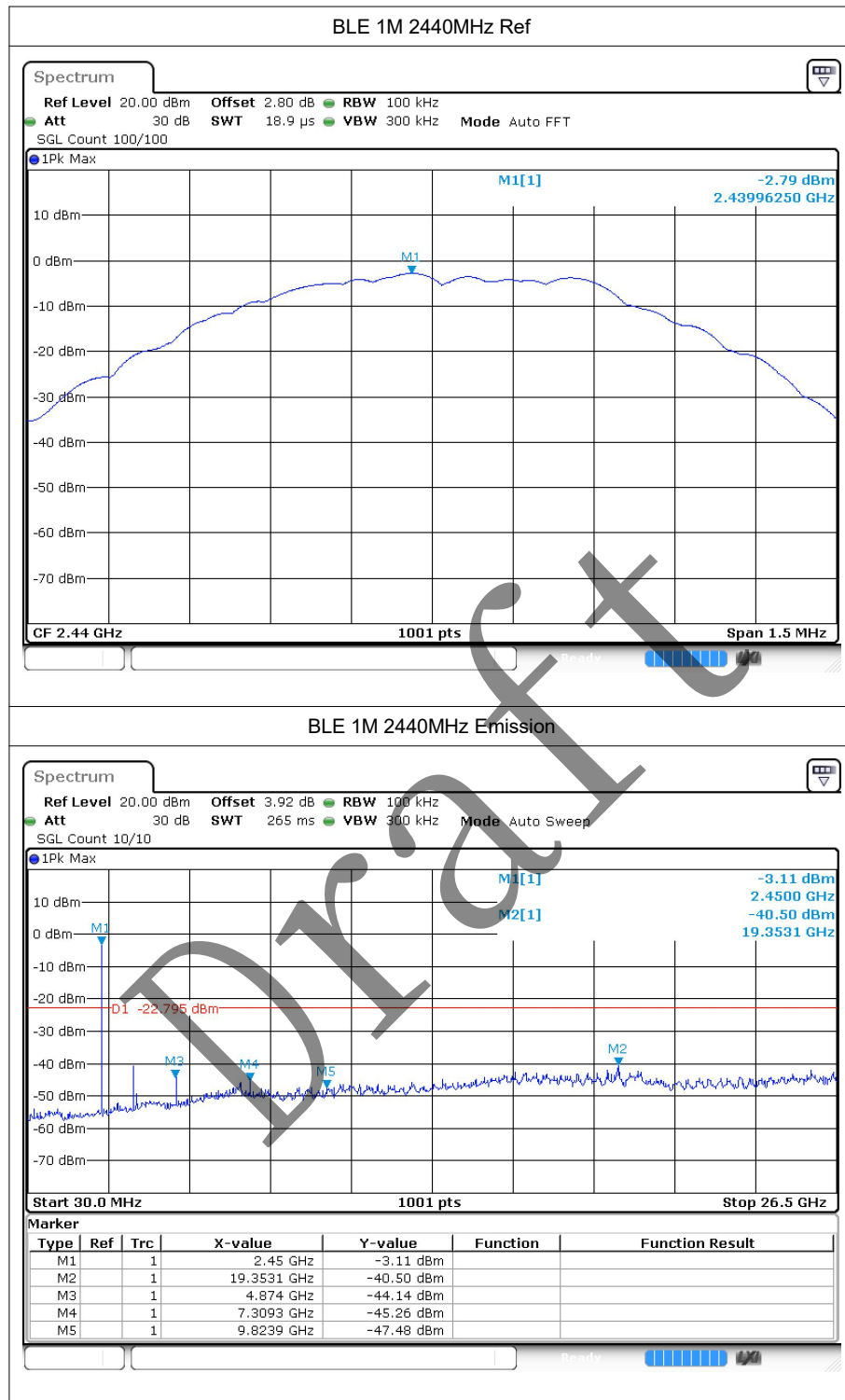
6.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-38.8	-20	Pass
BLE 1M	2440	-37.71	-20	Pass
BLE 1M	2480	-37.78	-20	Pass

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6.2 Test Graphs





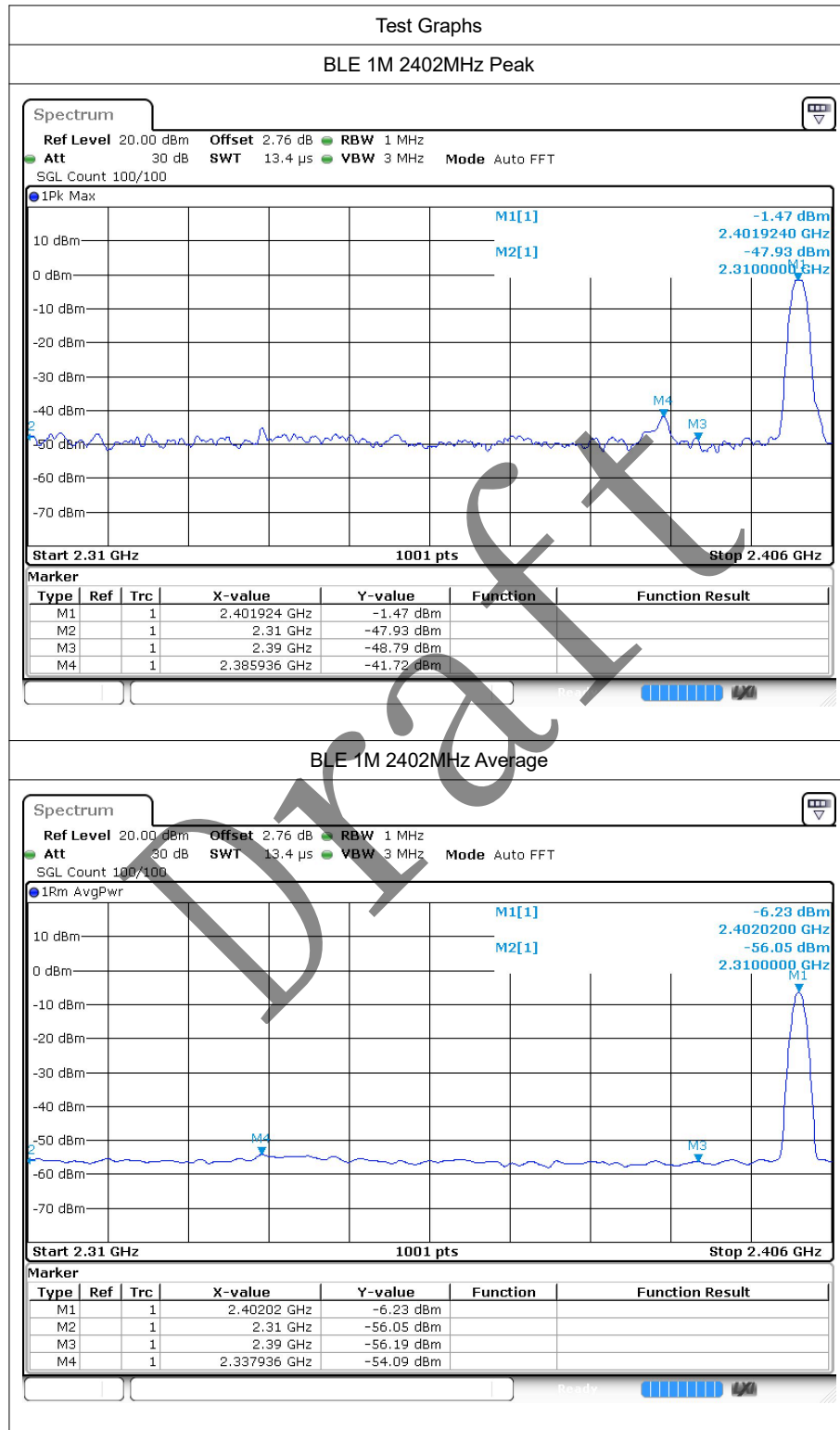


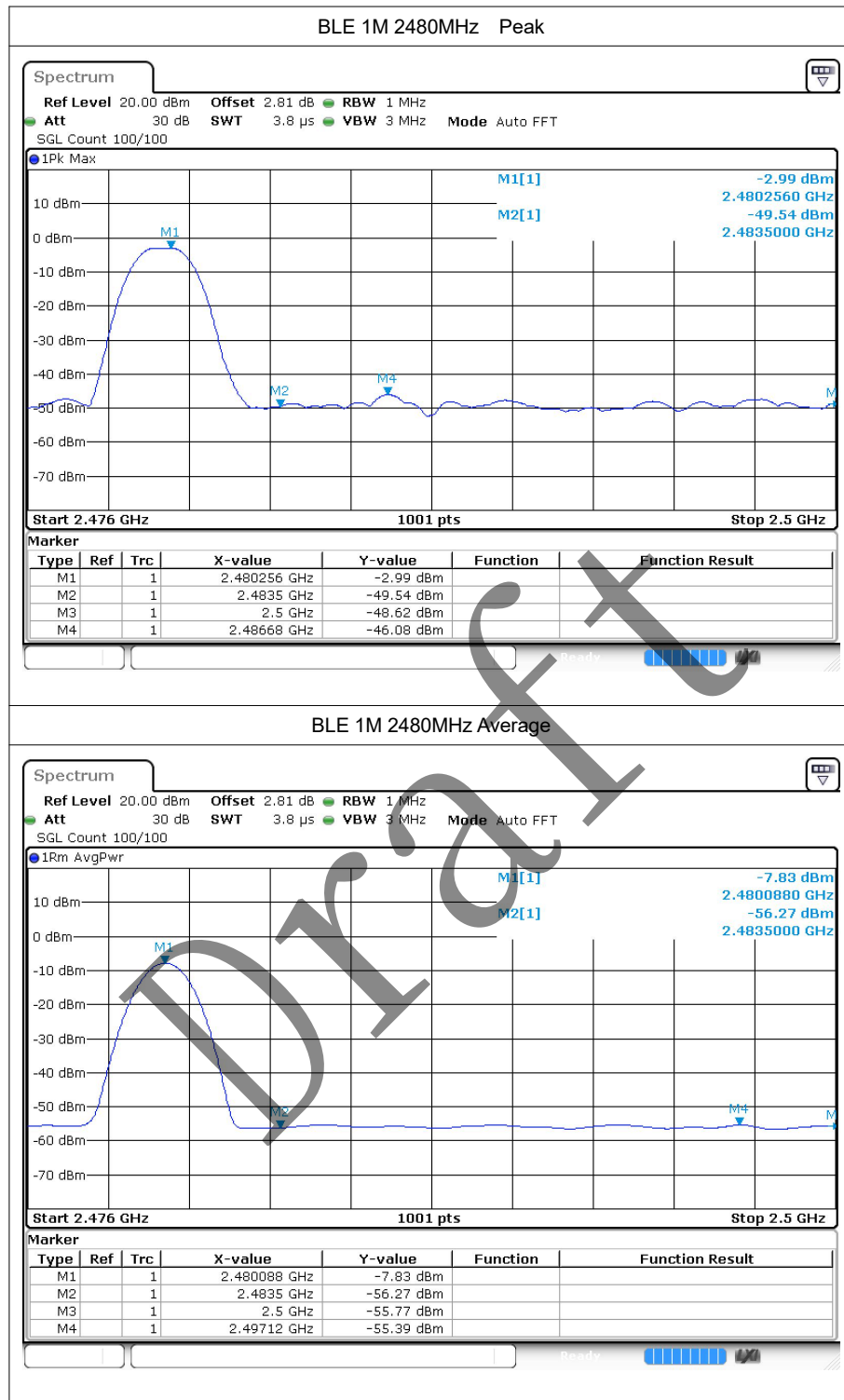
7 Restrict Band

7.1 Test Result

Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
BLE 1M	2402	2310	-47.93	2.28	-	49.58	Peak	74	Pass
BLE 1M	2402	2310	-56.05	2.28	4.24	45.70	Average	54	Pass
BLE 1M	2402	2385.936	-41.71	2.28	-	55.80	Peak	74	Pass
BLE 1M	2402	2337.936	-54.09	2.28	4.24	47.66	Average	54	Pass
BLE 1M	2402	2390	-48.79	2.28	-	48.72	Peak	74	Pass
BLE 1M	2402	2390	-56.19	2.28	4.24	45.56	Average	54	Pass
BLE 1M	2480	2483.5	-49.54	2.28	-	47.97	Peak	74	Pass
BLE 1M	2480	2483.5	-56.27	2.28	4.26	45.50	Average	54	Pass
BLE 1M	2480	2486.68	-46.07	2.28	-	51.44	Peak	74	Pass
BLE 1M	2480	2497.12	-55.38	2.28	4.26	46.39	Average	54	Pass
BLE 1M	2480	2500	-48.62	2.28	-	48.89	Peak	74	Pass
BLE 1M	2480	2500	-55.77	2.28	4.26	46.00	Average	54	Pass

7.2 Test Graphs





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