

Appendix B

RF Test Data for BLE Conducted Measurement

FCC ID:2A7DX-WAVE6

Product Name:Smart phone

Test Model:WAVE 6C

Environmental Conditions

Temperature:	21°C
Relative Humidity:	51%
ATM Pressure:	101Kpa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen

Contents

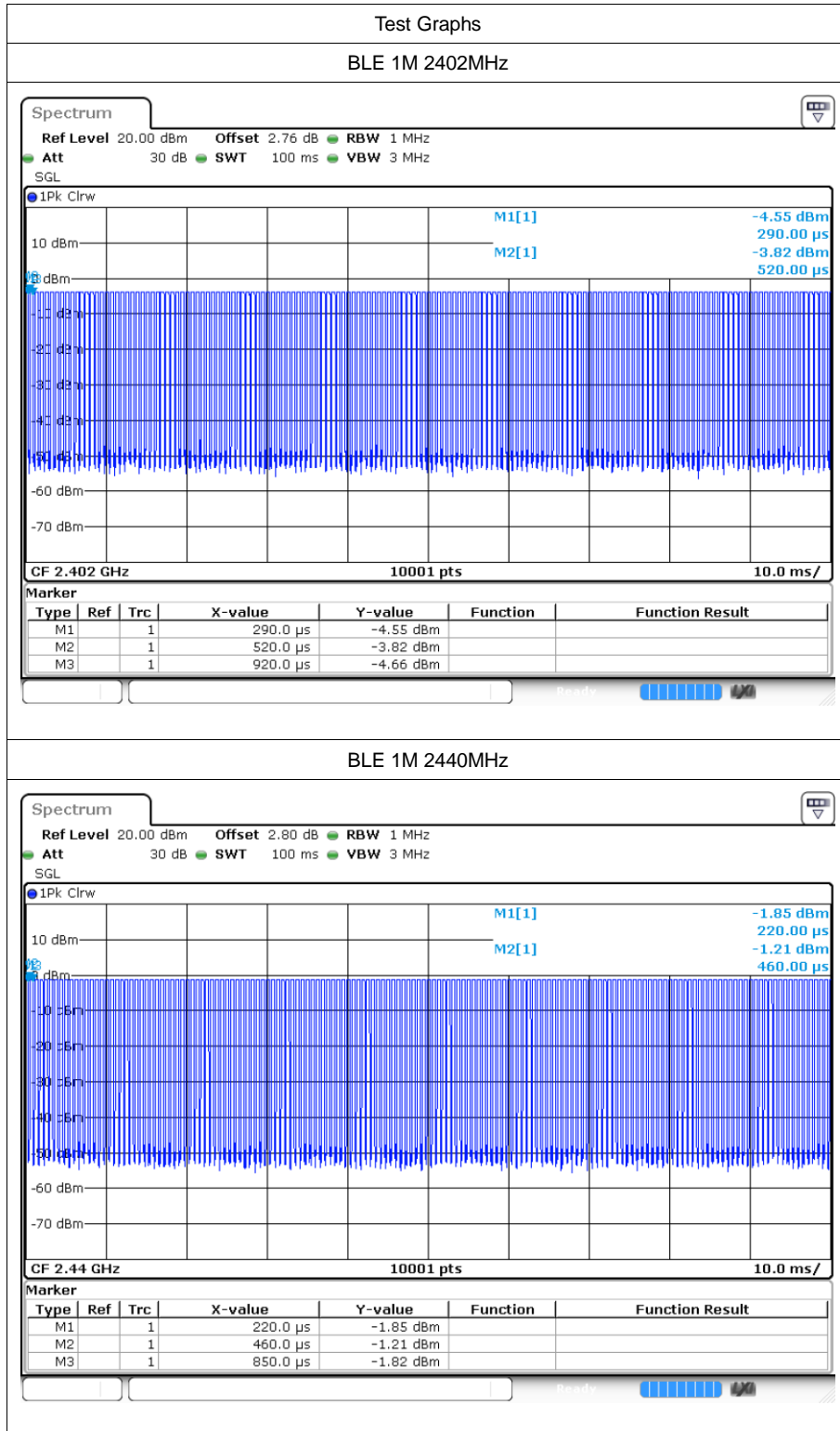
	Page
COVER PAGE	
1 Duty Cycle.....	3
1.1 Test Result	3
1.2 Test Graphs	4
2 Maximum Conducted Output Power	6
2.1 Test Result	6
2.2 Test Graphs	7
3 -6dB Bandwidth	9
3.1 Test Result	9
3.2 Test Graphs	10
4 Maximum Power Spectral Density Level.....	12
4.1 Test Result	12
4.2 Test Graphs	13
5 Band Edge	15
5.1 Test Result	15
5.2 Test Graphs	16
6 Conducted RF Spurious Emission	18
6.1 Test Result	18
6.2 Test Graphs	19
7 Restrict Band.....	22
7.1 Test Result	22
7.2 Test Graphs	23

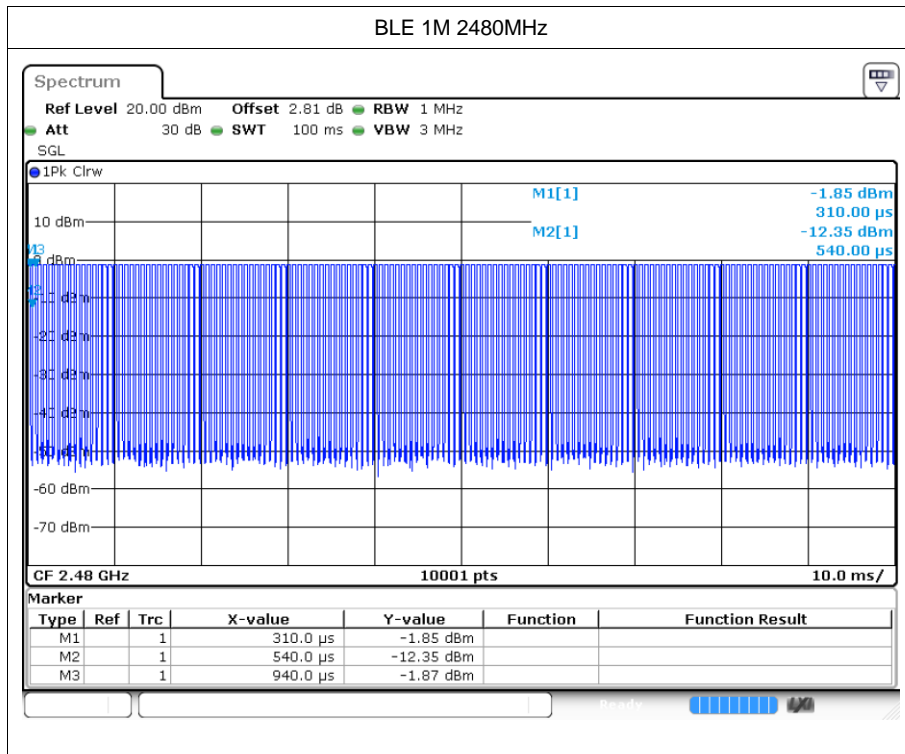
1 Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
BLE 1M	2402	64.8	2.5
BLE 1M	2440	64.7	2.56
BLE 1M	2480	64.8	2.5

1.2 Test Graphs



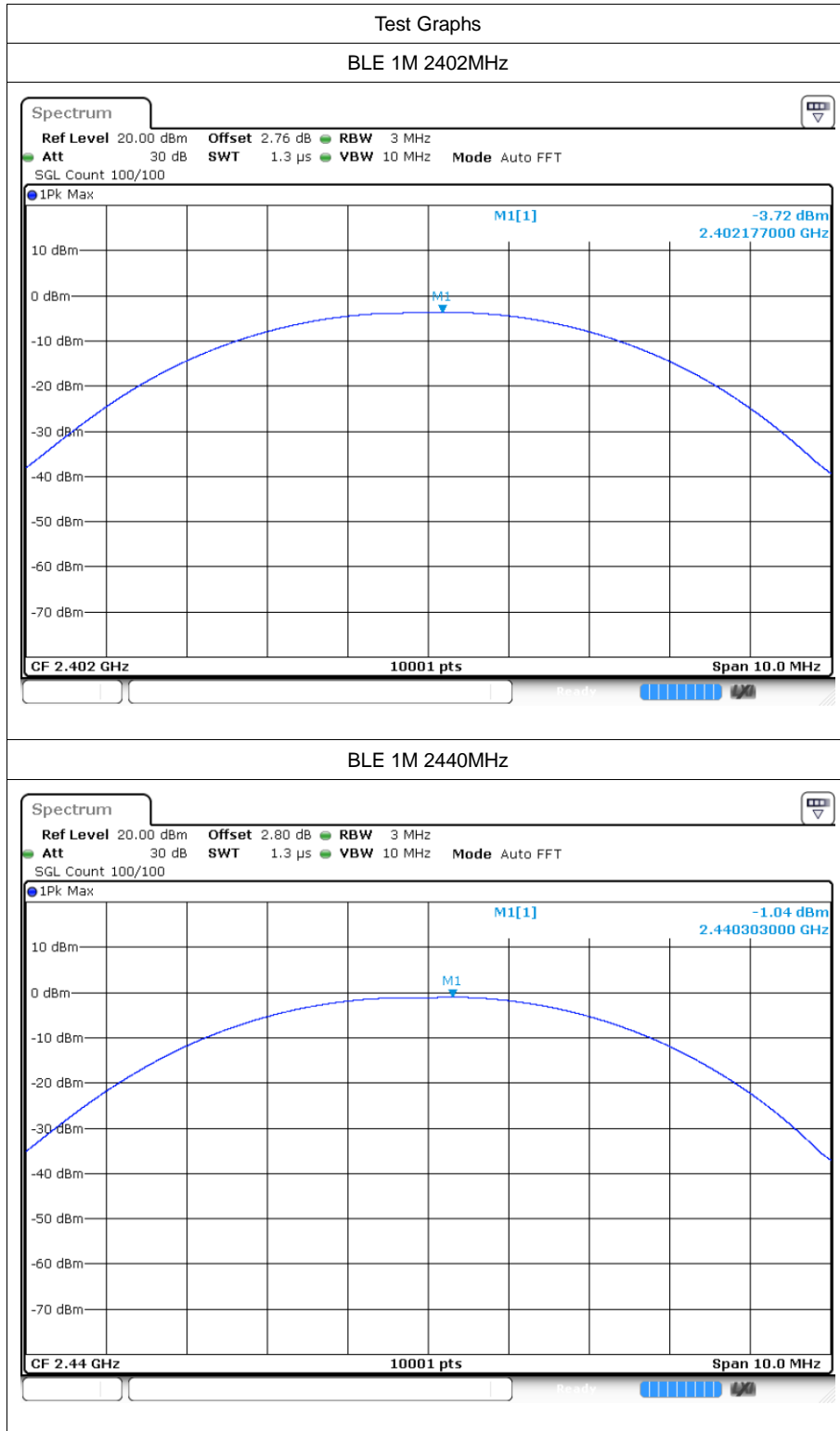


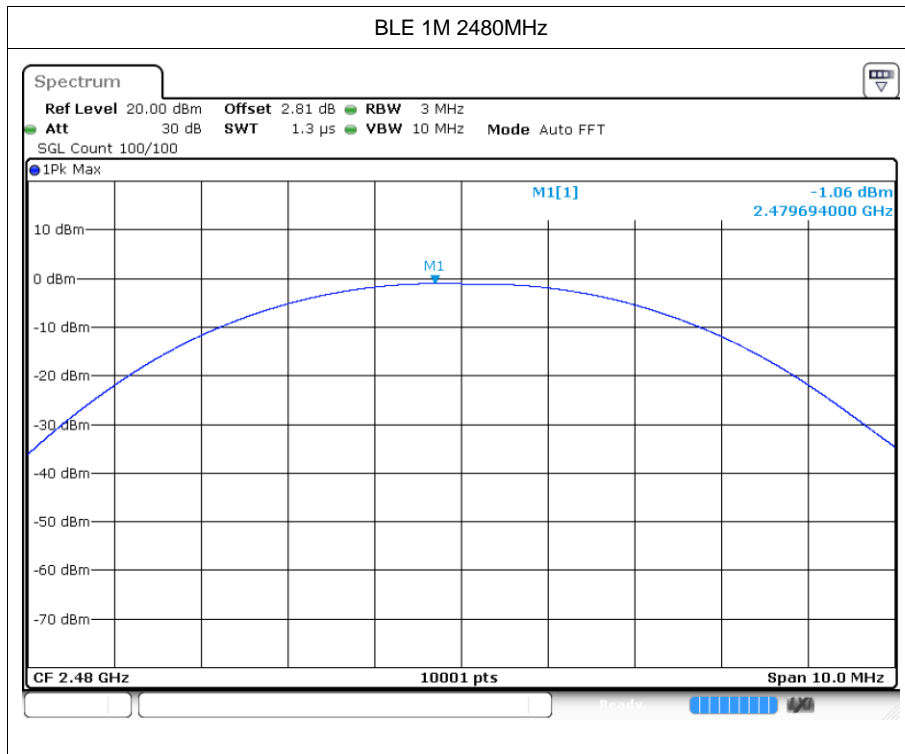
2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	-3.72	30	Pass
BLE 1M	2440	-1.04	30	Pass
BLE 1M	2480	-1.06	30	Pass

2.2 Test Graphs



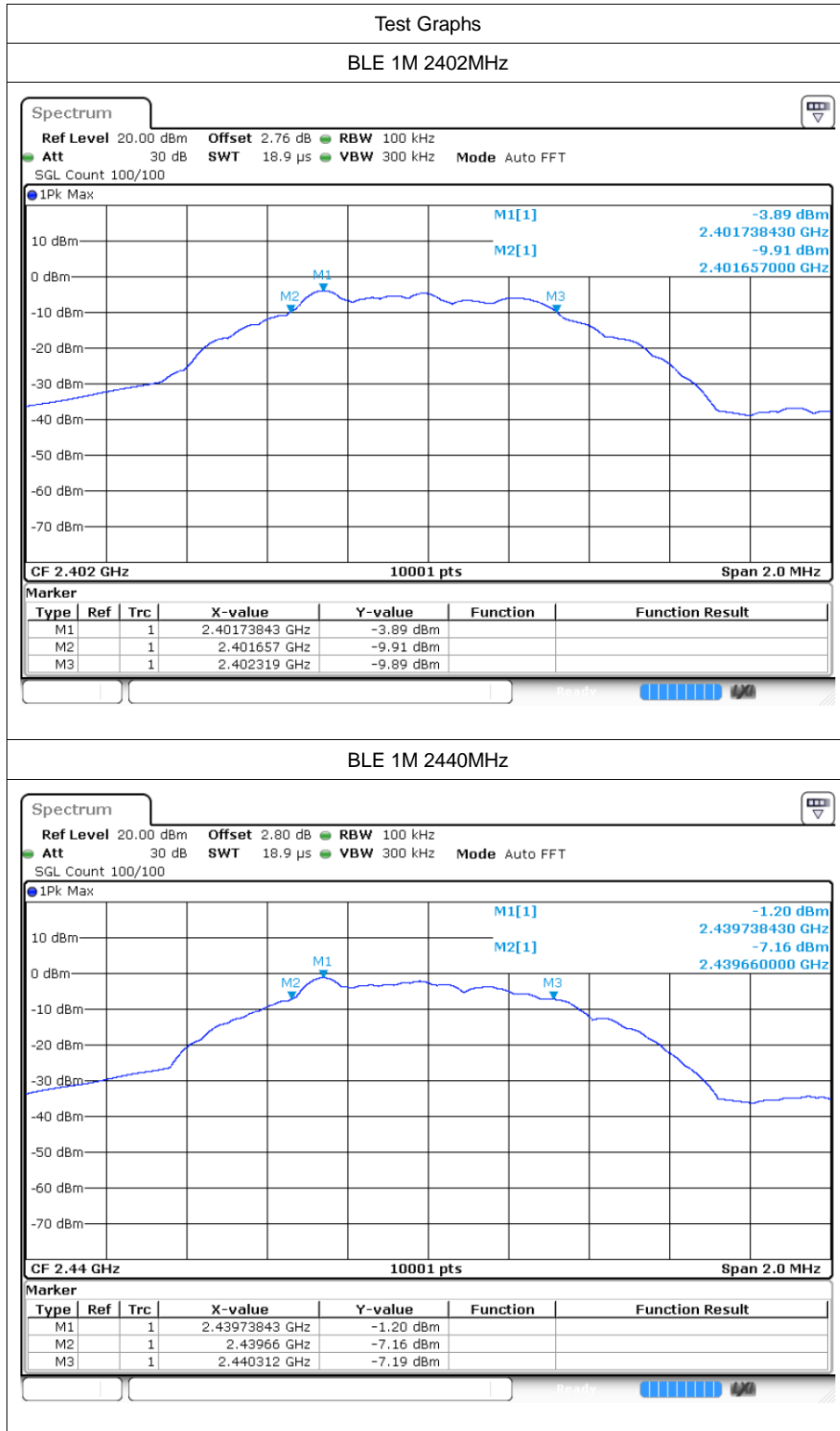


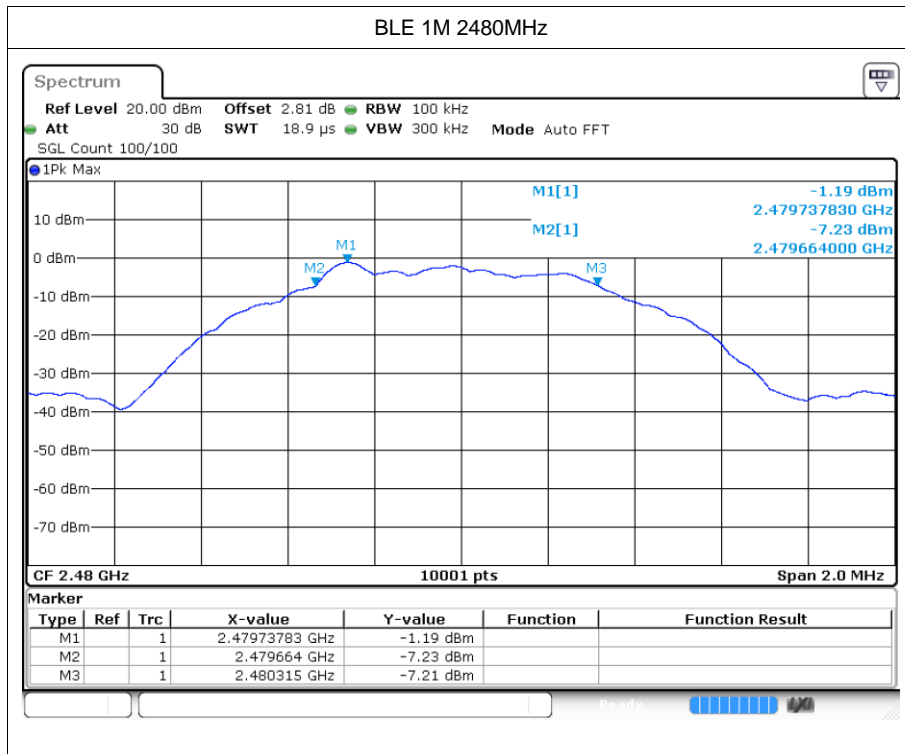
3 -6dB Bandwidth

3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.662	0.5	Pass
BLE 1M	2440	0.652	0.5	Pass
BLE 1M	2480	0.65	0.5	Pass

3.2 Test Graphs



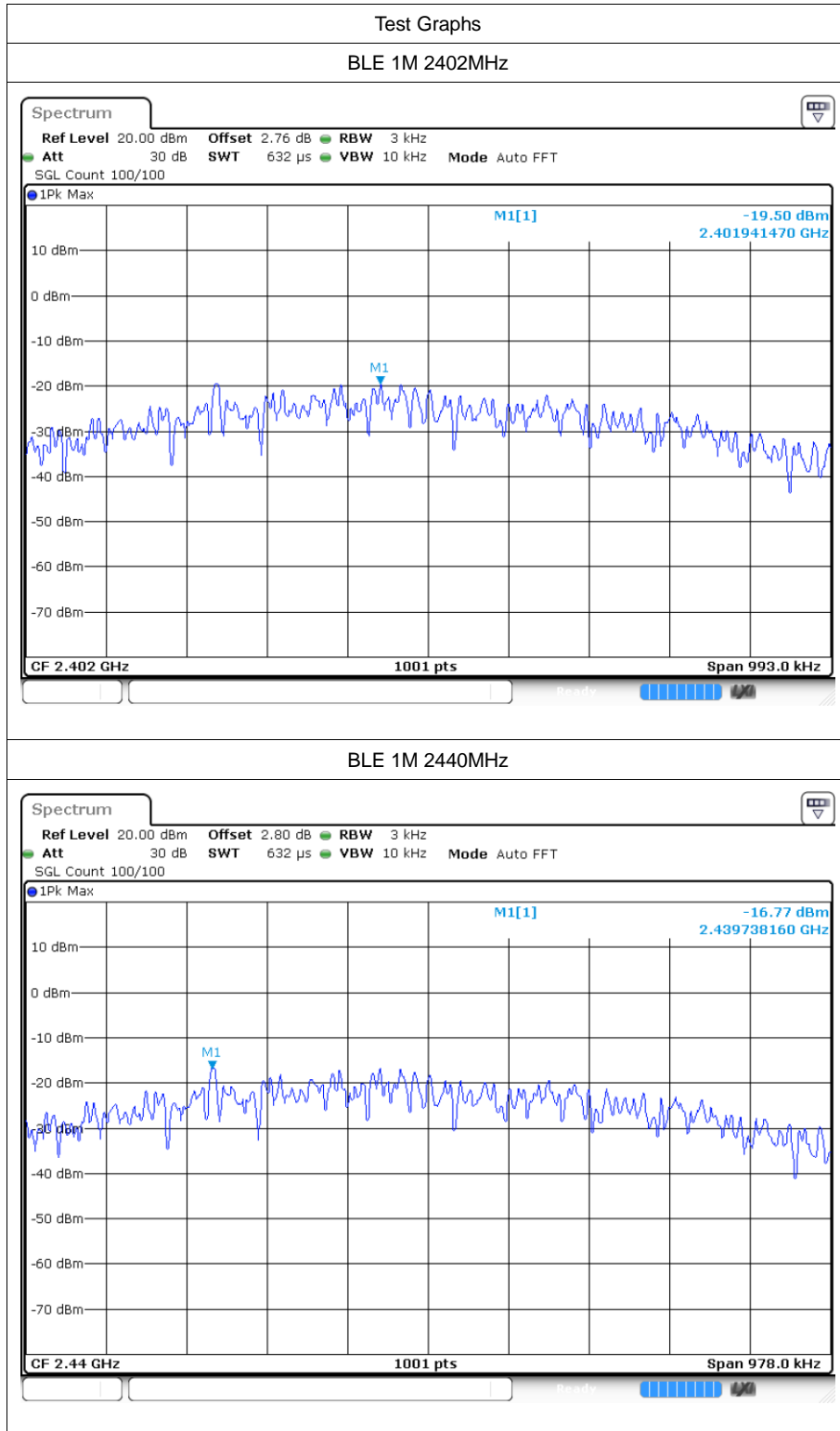


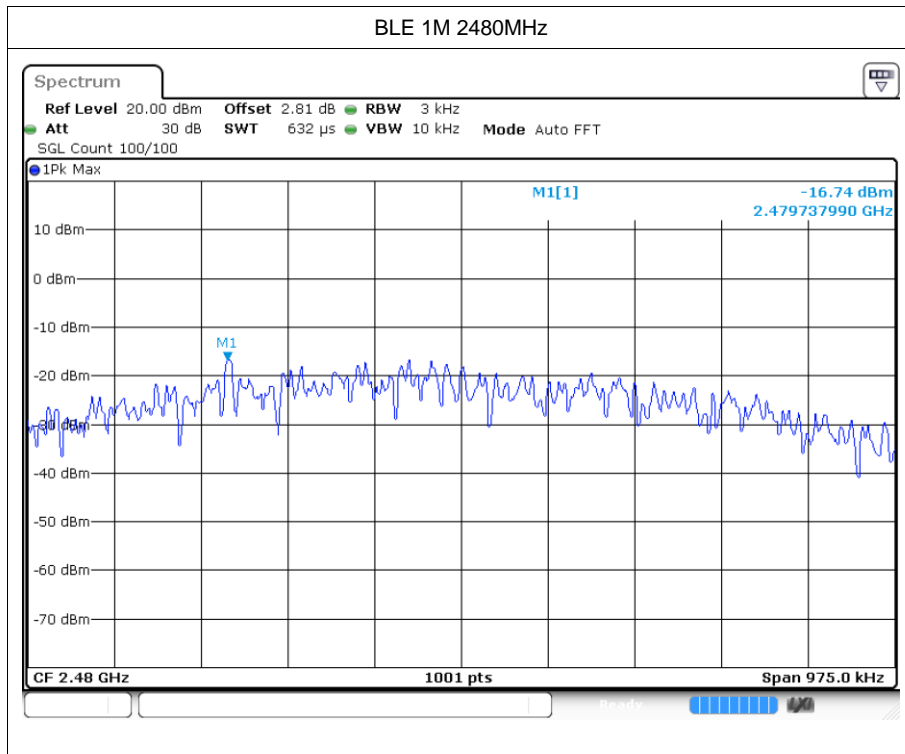
4 Maximum Power Spectral Density Level

4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-19.5	≤ 8	Pass
BLE 1M	2440	-16.77	≤ 8	Pass
BLE 1M	2480	-16.74	≤ 8	Pass

4.2 Test Graphs



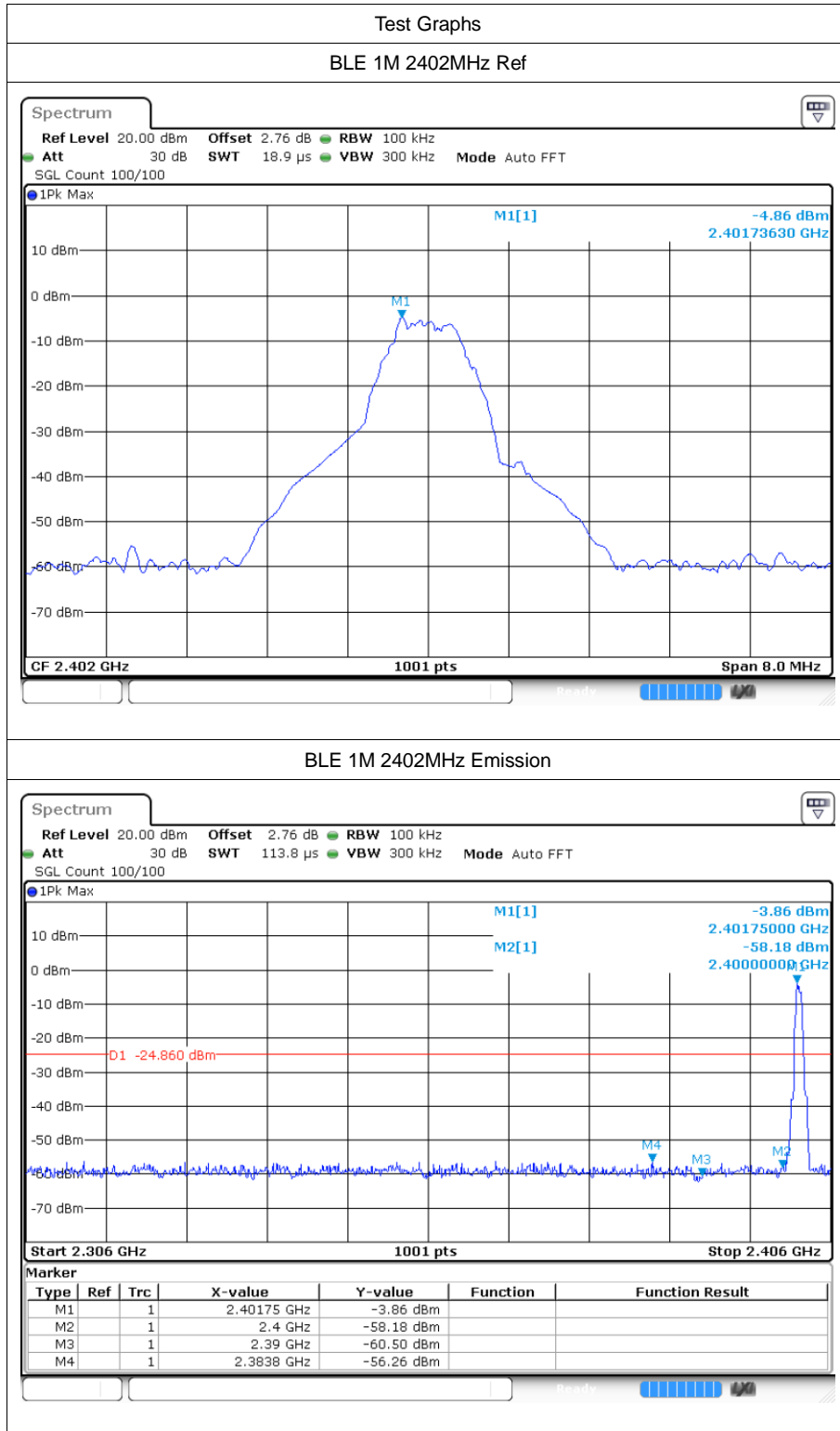


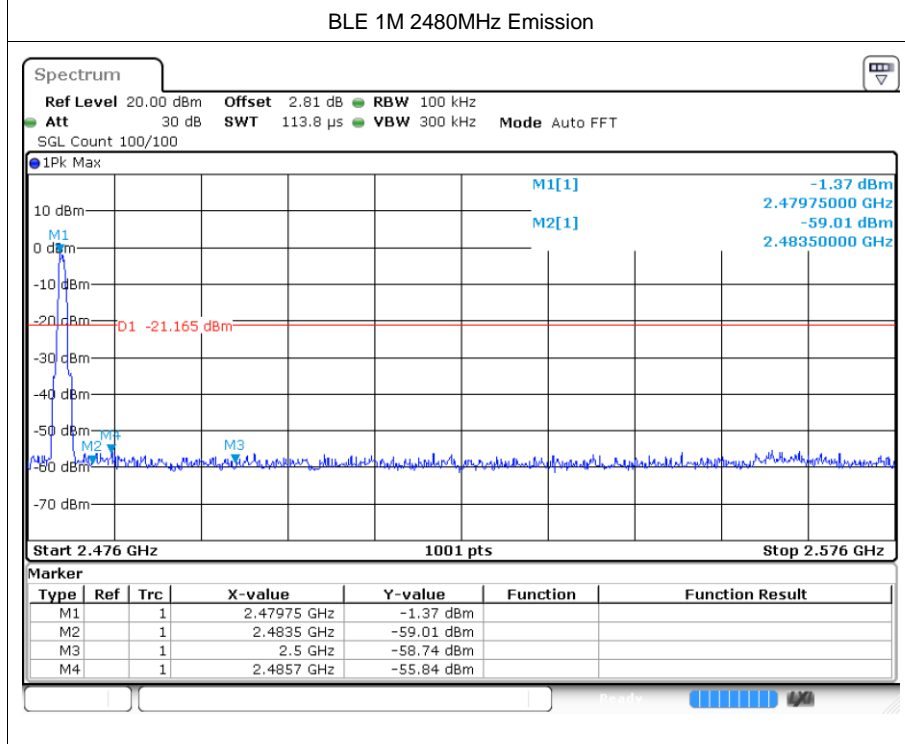
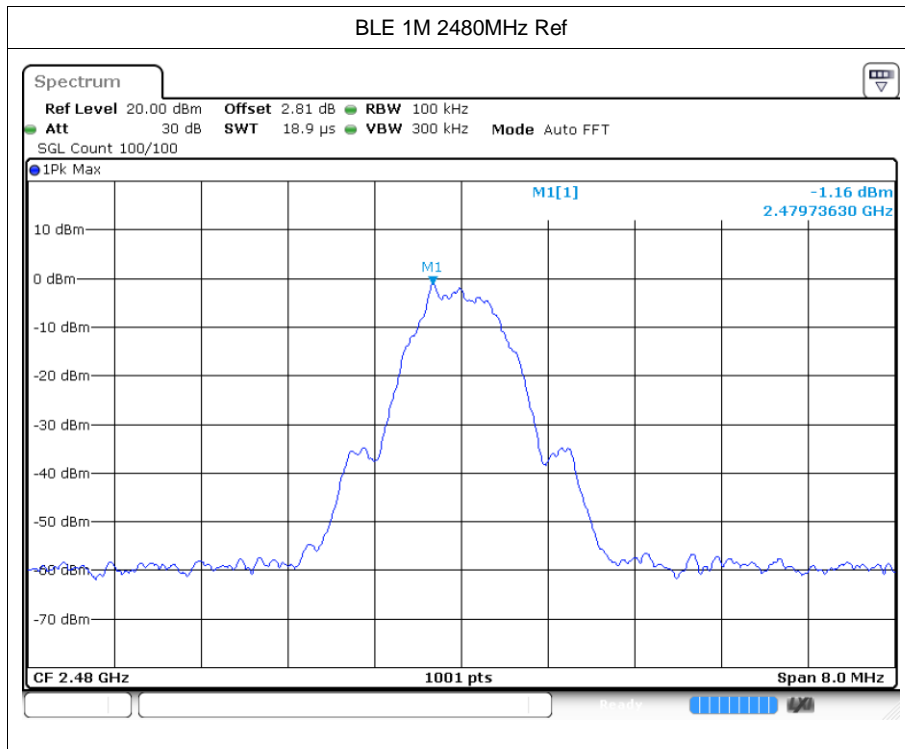
5 Band Edge

5.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-51.39	-20	Pass
BLE 1M	2480	-54.68	-20	Pass

5.2 Test Graphs



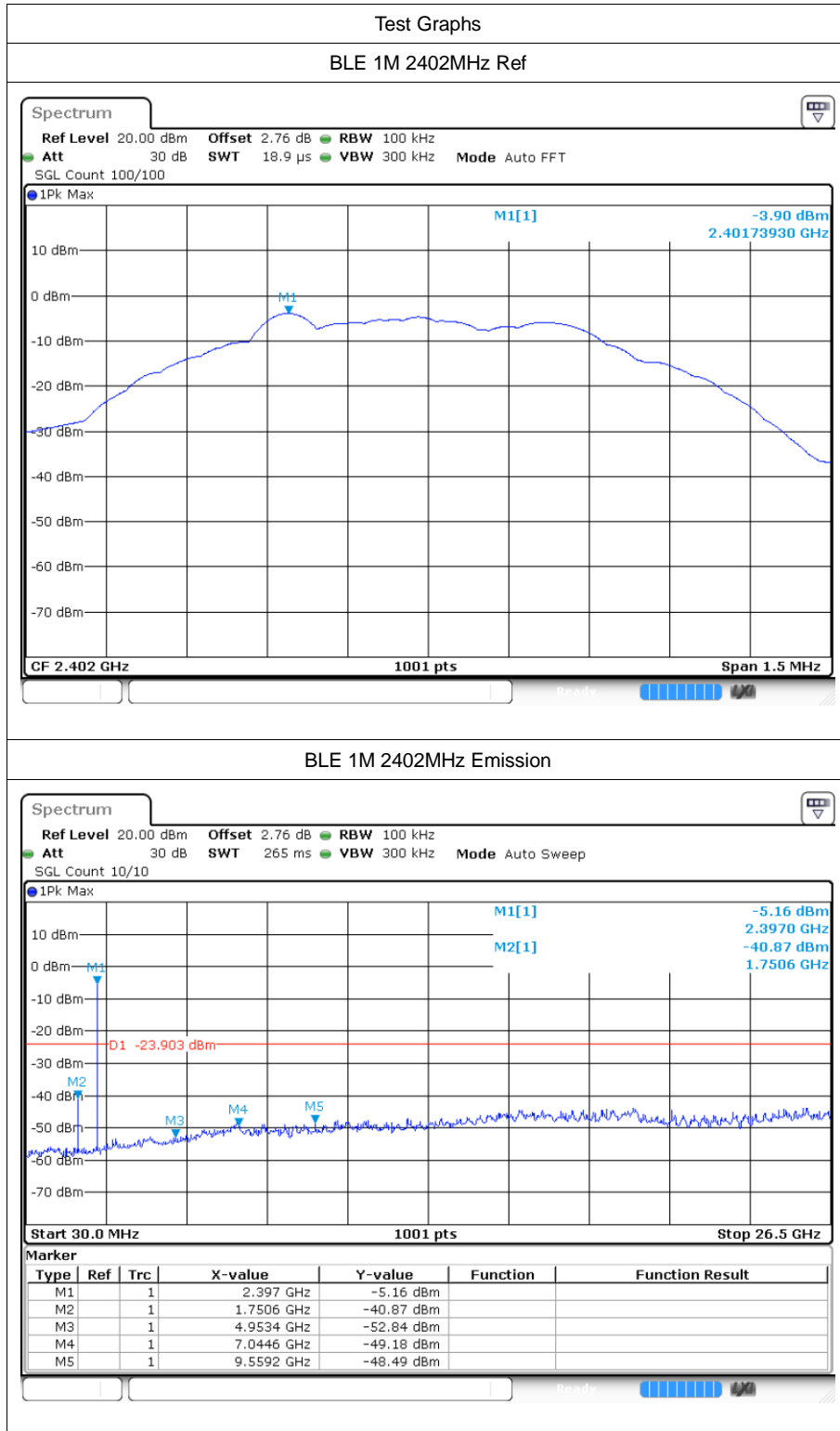


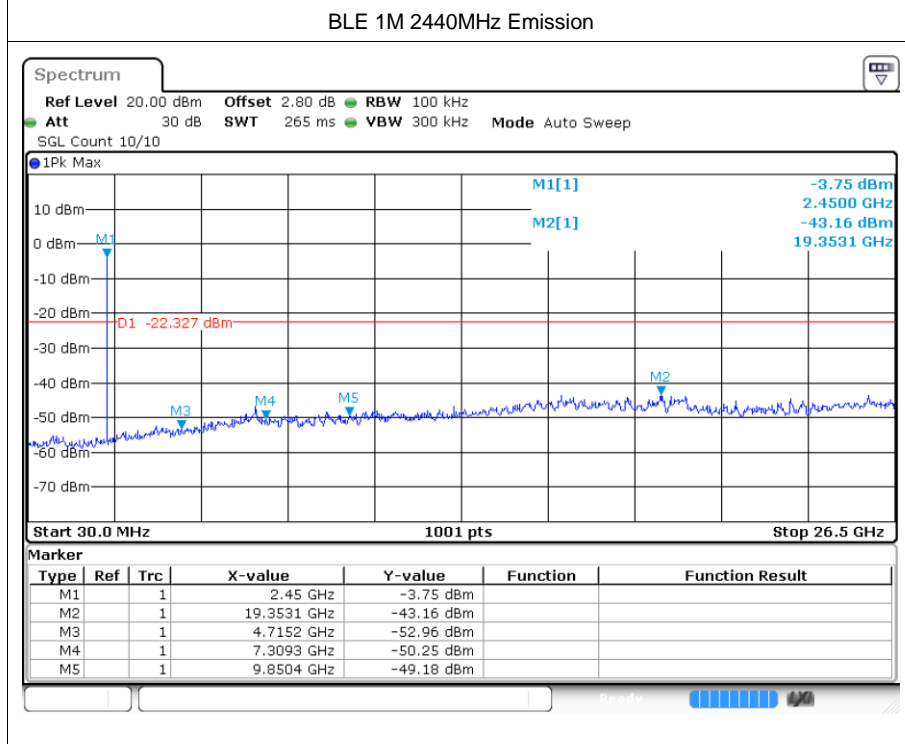
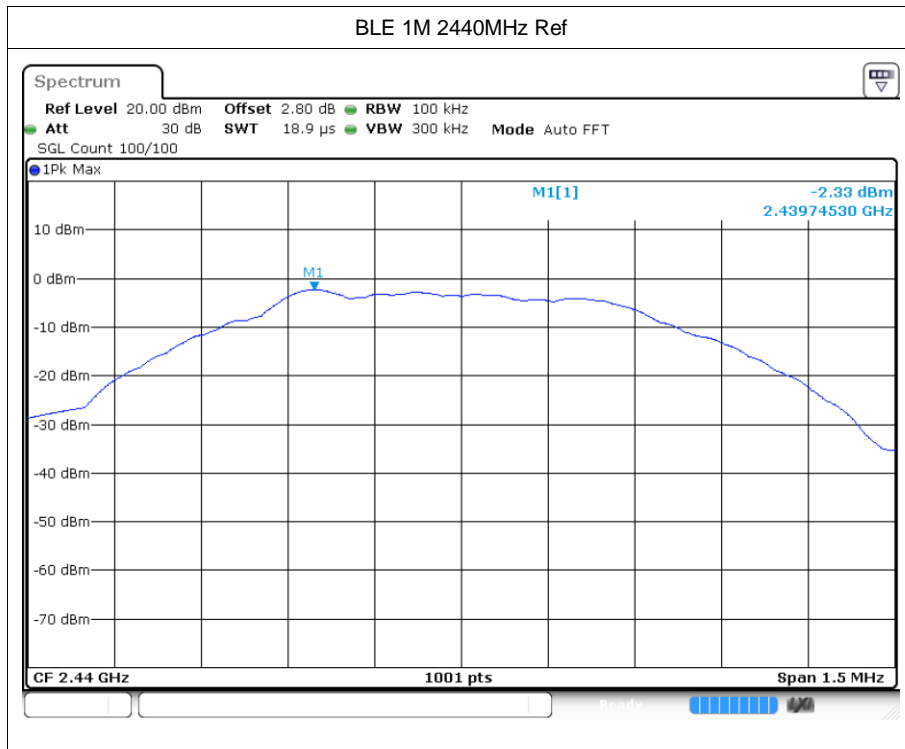
6 Conducted RF Spurious Emission

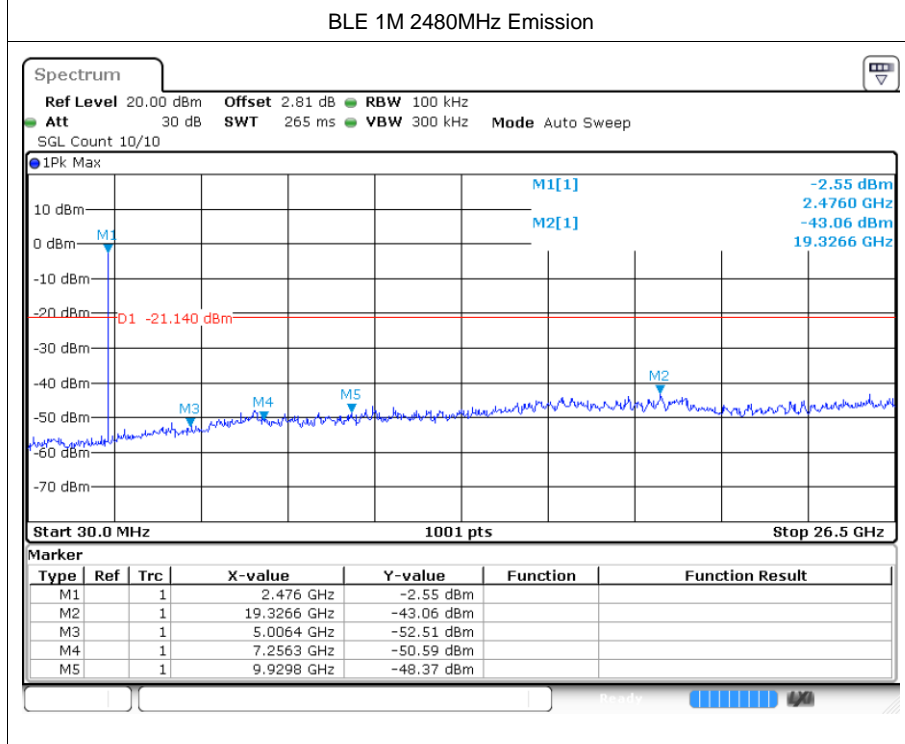
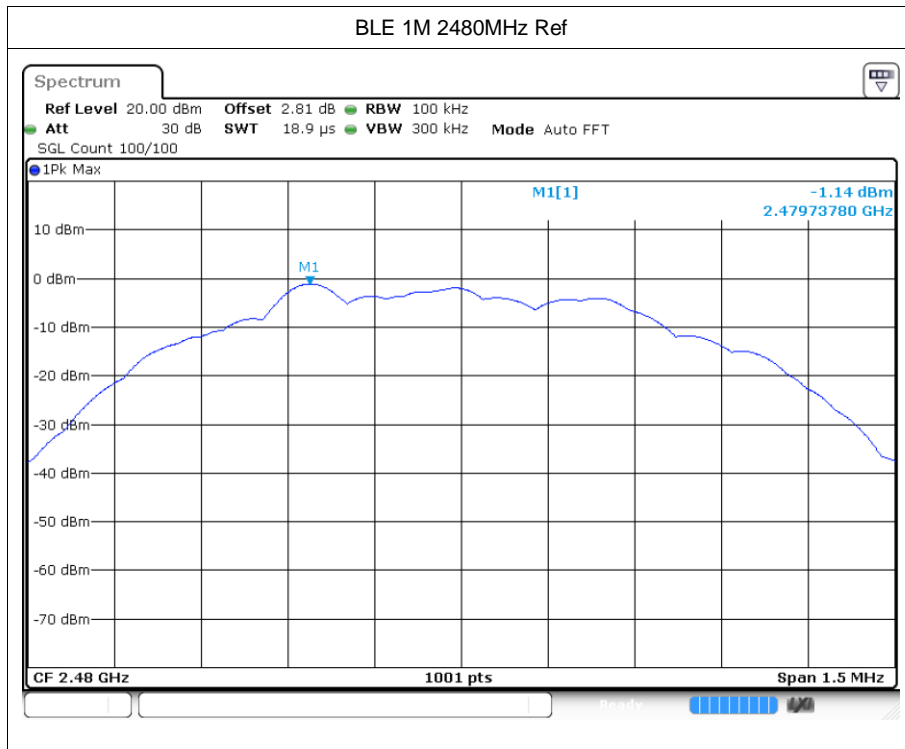
6.1 Test Result

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-36.96	-20	Pass
BLE 1M	2440	-40.83	-20	Pass
BLE 1M	2480	-41.91	-20	Pass

6.2 Test Graphs





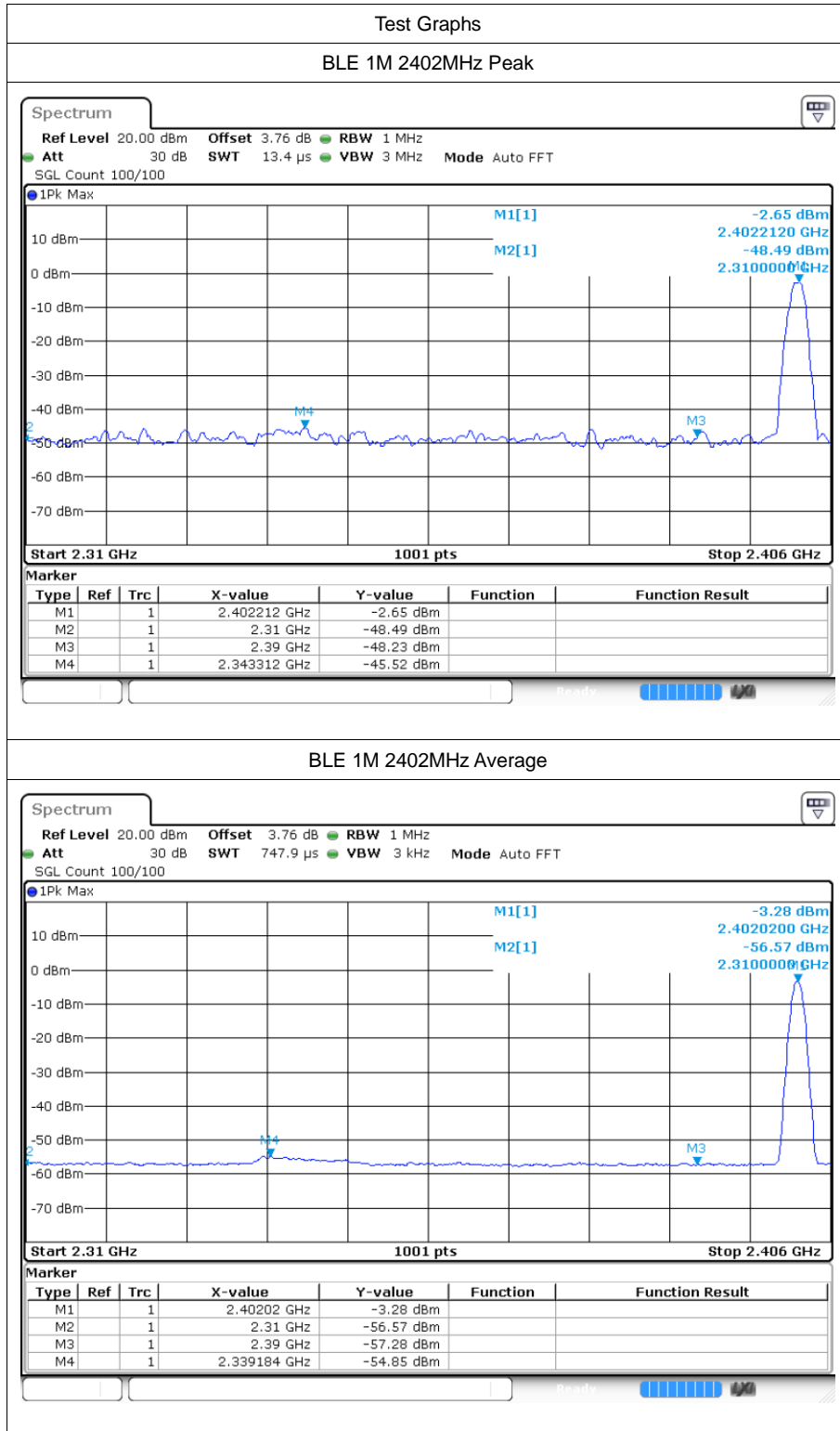


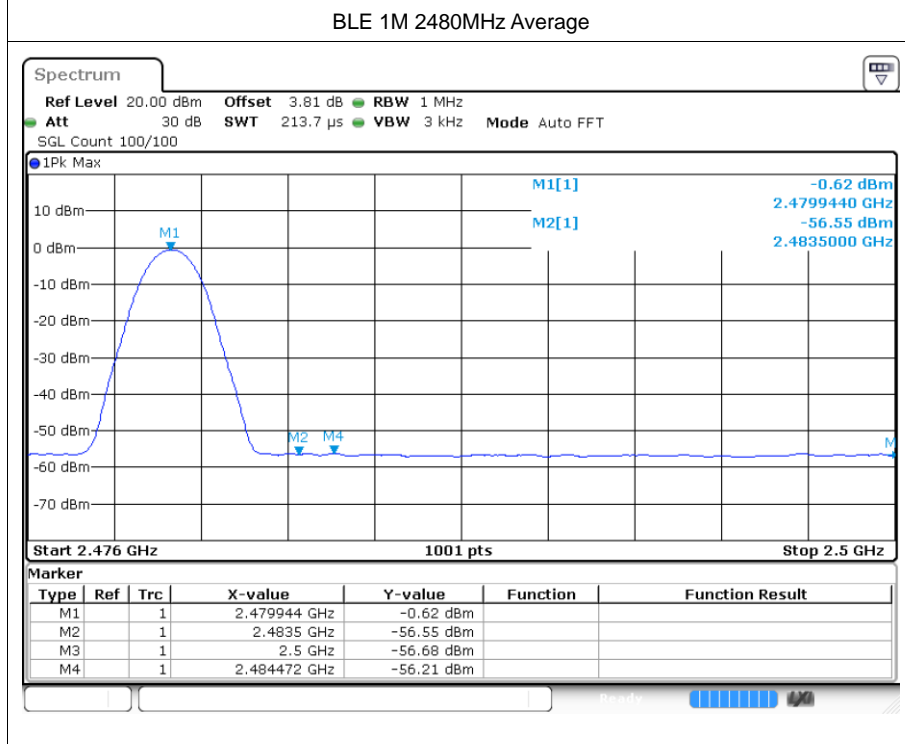
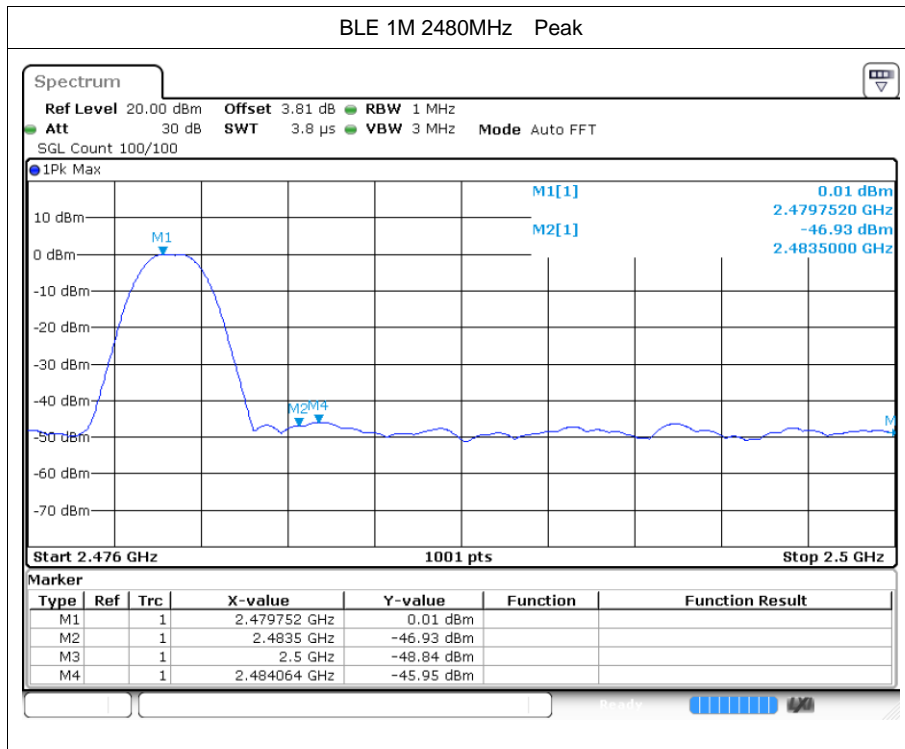
7 Restrict Band

7.1 Test Result

Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
BLE 1M	2402	2310	-48.48	2	48.78	Peak	74	Pass
BLE 1M	2402	2310	-56.56	2	40.7	Average	54	Pass
BLE 1M	2402	2343.312	-45.51	2	51.75	Peak	74	Pass
BLE 1M	2402	2339.184	-54.85	2	42.41	Average	54	Pass
BLE 1M	2402	2390	-48.23	2	49.03	Peak	74	Pass
BLE 1M	2402	2390	-57.27	2	39.99	Average	54	Pass
BLE 1M	2480	2483.5	-46.93	2	50.33	Peak	74	Pass
BLE 1M	2480	2483.5	-56.58	2	40.68	Average	54	Pass
BLE 1M	2480	2484.064	-45.94	2	51.32	Peak	74	Pass
BLE 1M	2480	2484.472	-56.21	2	41.05	Average	54	Pass
BLE 1M	2480	2500	-48.84	2	48.42	Peak	74	Pass
BLE 1M	2480	2500	-56.67	2	40.59	Average	54	Pass

7.2 Test Graphs





---The End---