

## Appendix Test Data

Report No:	182512C400451102	Test Sample NO:	1-2-2
Start Test Date:	2024.8.12	Finish Test Date:	2024.8.12
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.8°C	Relative Humidity:	51%
Pressure:	101 kPa		

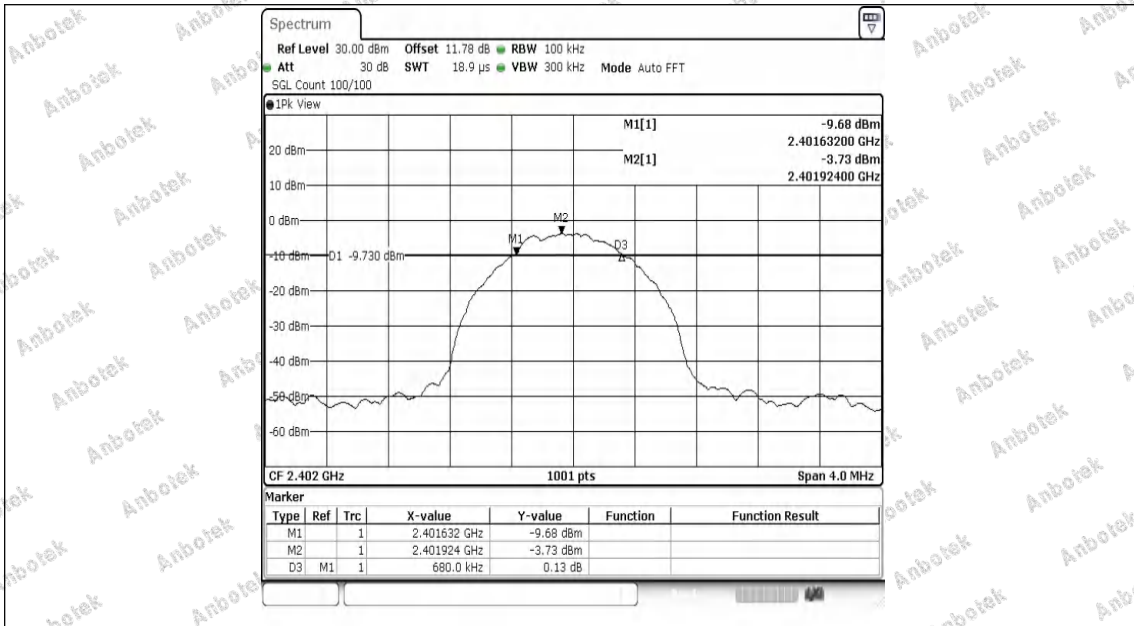
## Appendix A: DTS Bandwidth

## Test Result

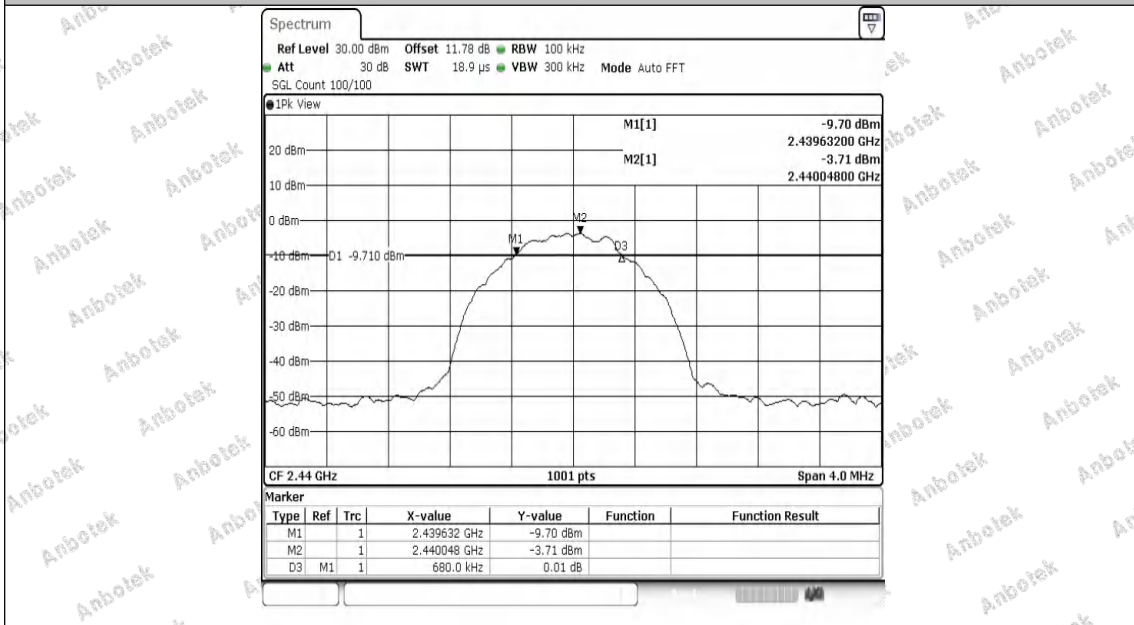
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.68	2401.63	2402.31	0.5	PASS
BLE_1M	Ant1	2440	0.68	2439.63	2440.31	0.5	PASS
BLE_1M	Ant1	2480	0.64	2479.64	2480.28	0.5	PASS
BLE_2M	Ant1	2402	1.34	2401.30	2402.64	0.5	PASS
BLE_2M	Ant1	2440	1.30	2439.29	2440.60	0.5	PASS
BLE_2M	Ant1	2480	1.25	2479.30	2480.56	0.5	PASS



## Test Graphs

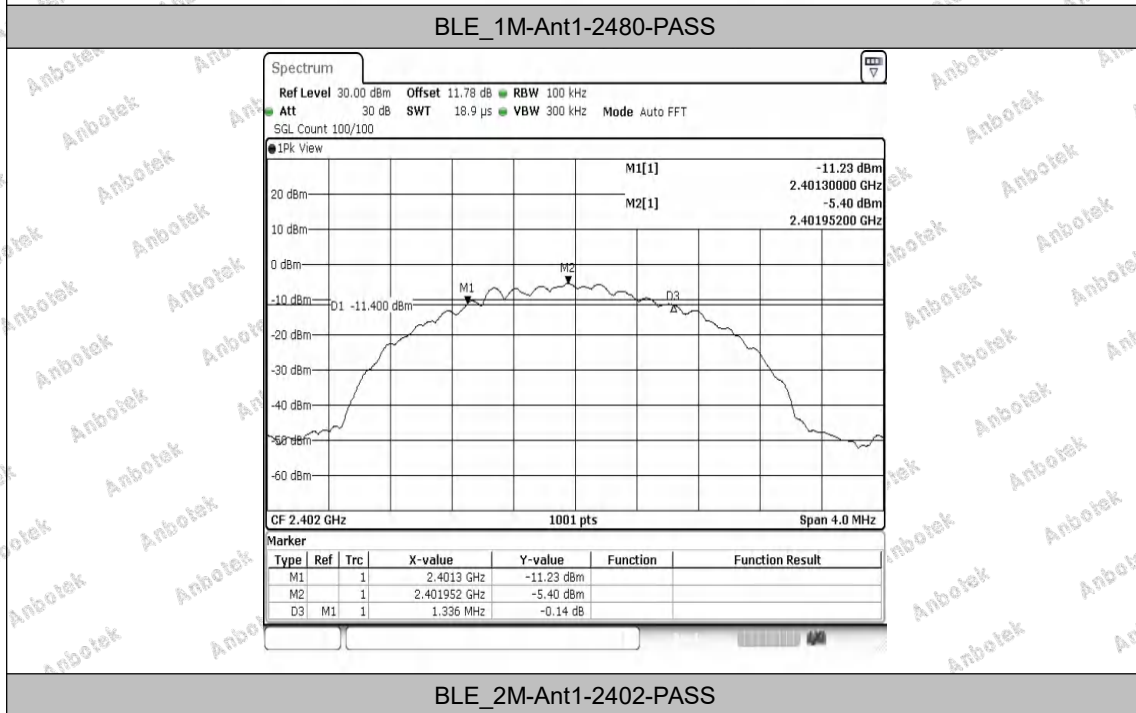
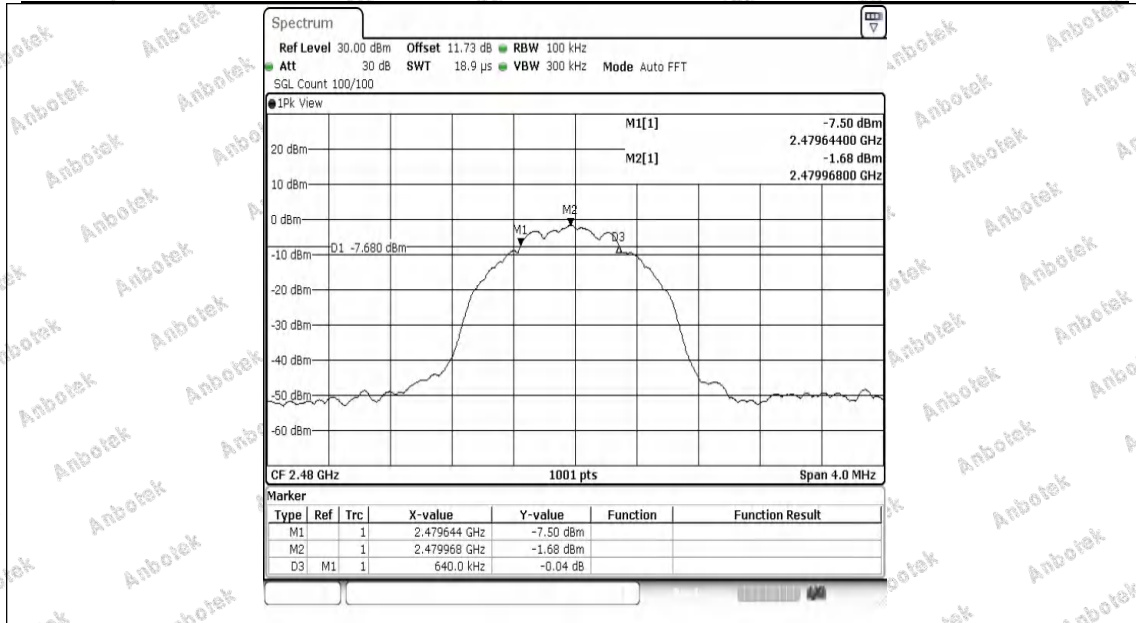


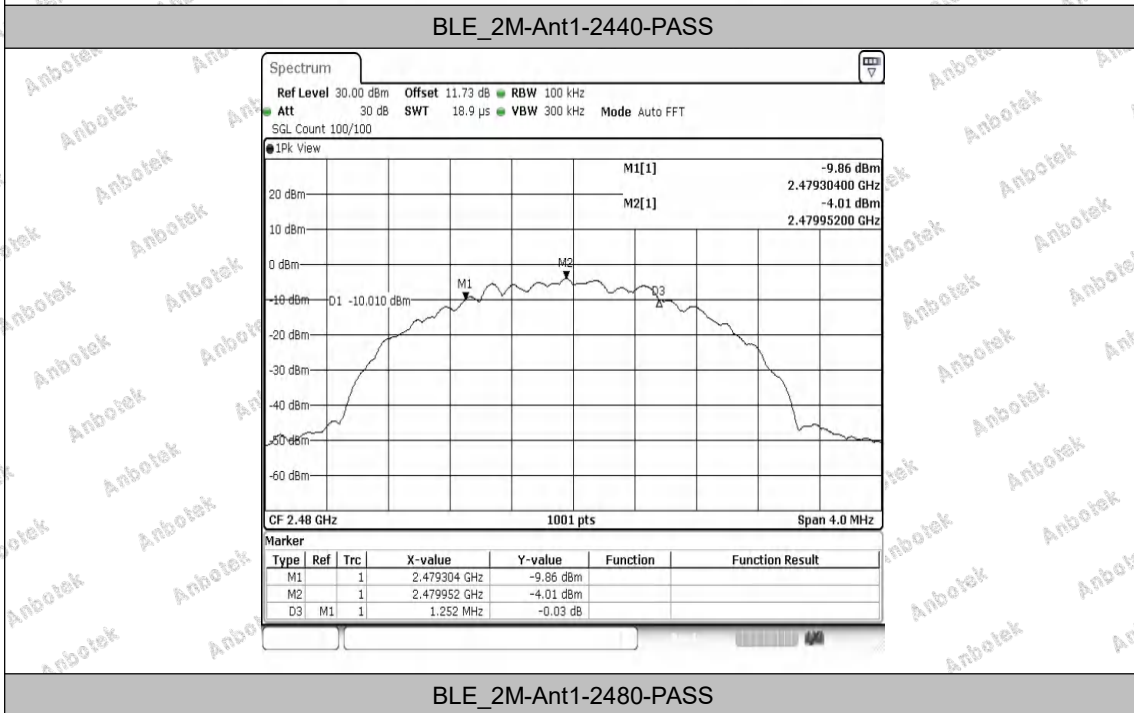
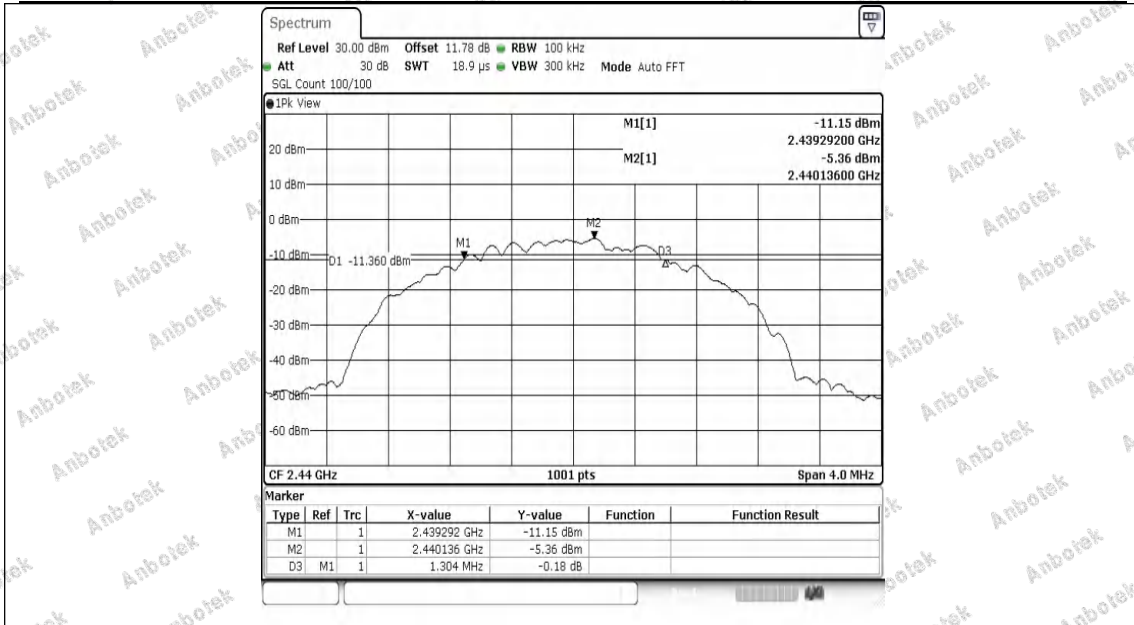
BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS







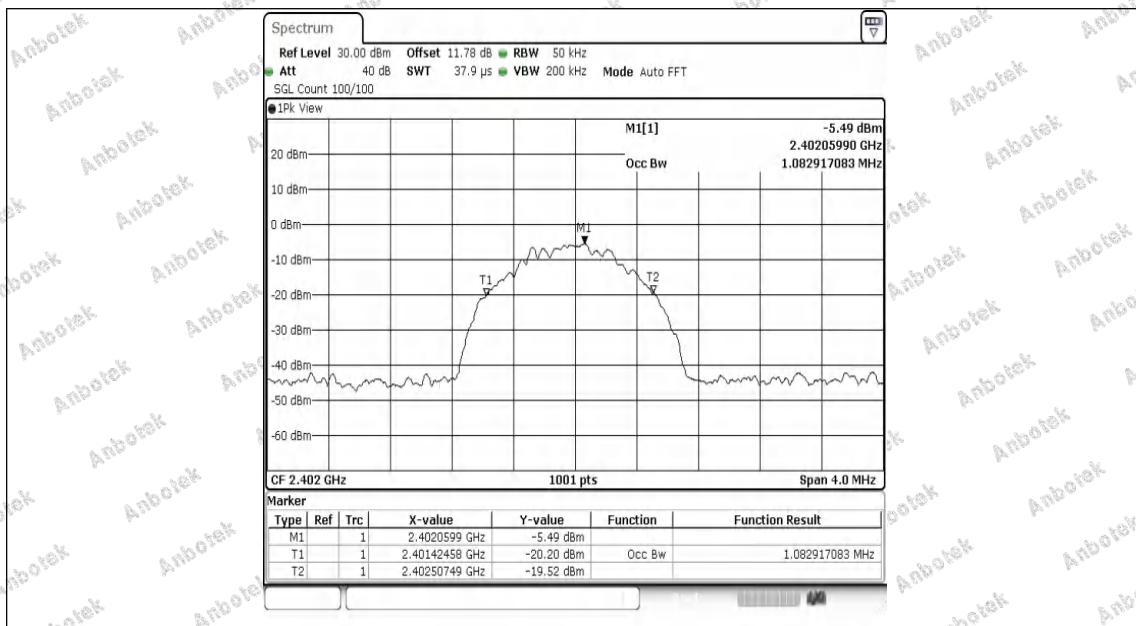
## Appendix B: Occupied Channel Bandwidth

### Test Result

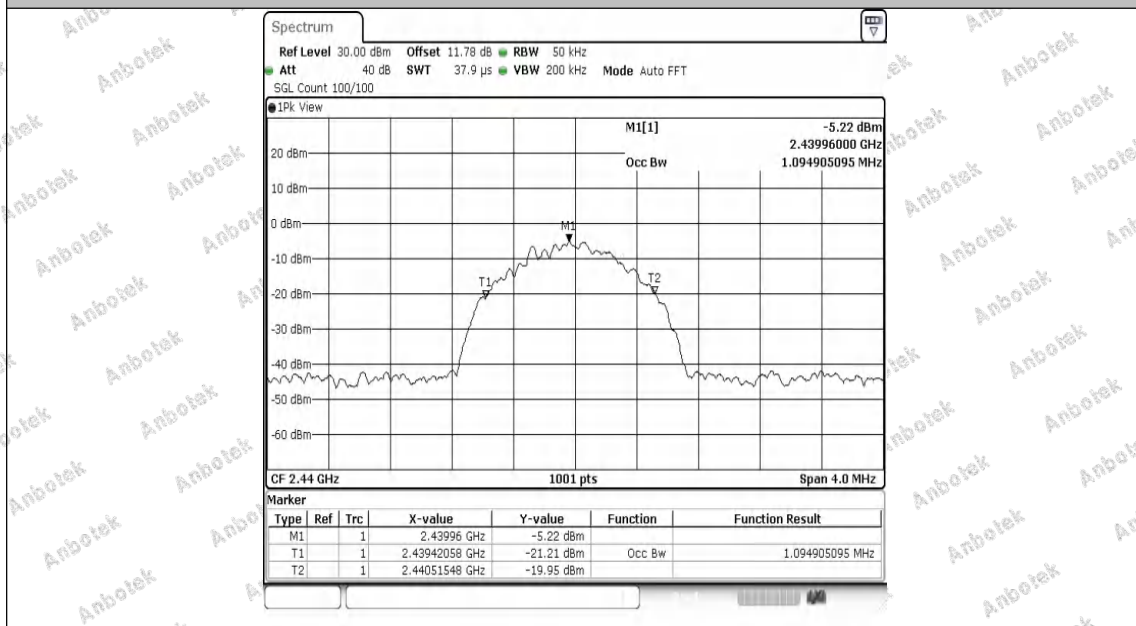
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.083	2401.4246	2402.5075	---	---
BLE_1M	Ant1	2440	1.095	2439.4206	2440.5155	---	---
BLE_1M	Ant1	2480	1.095	2479.4206	2480.5155	---	---
BLE_2M	Ant1	2402	2.122	2400.9211	2403.0430	---	---
BLE_2M	Ant1	2440	2.13	2438.9131	2441.0430	---	---
BLE_2M	Ant1	2480	2.126	2478.9131	2481.0390	---	---



## Test Graphs

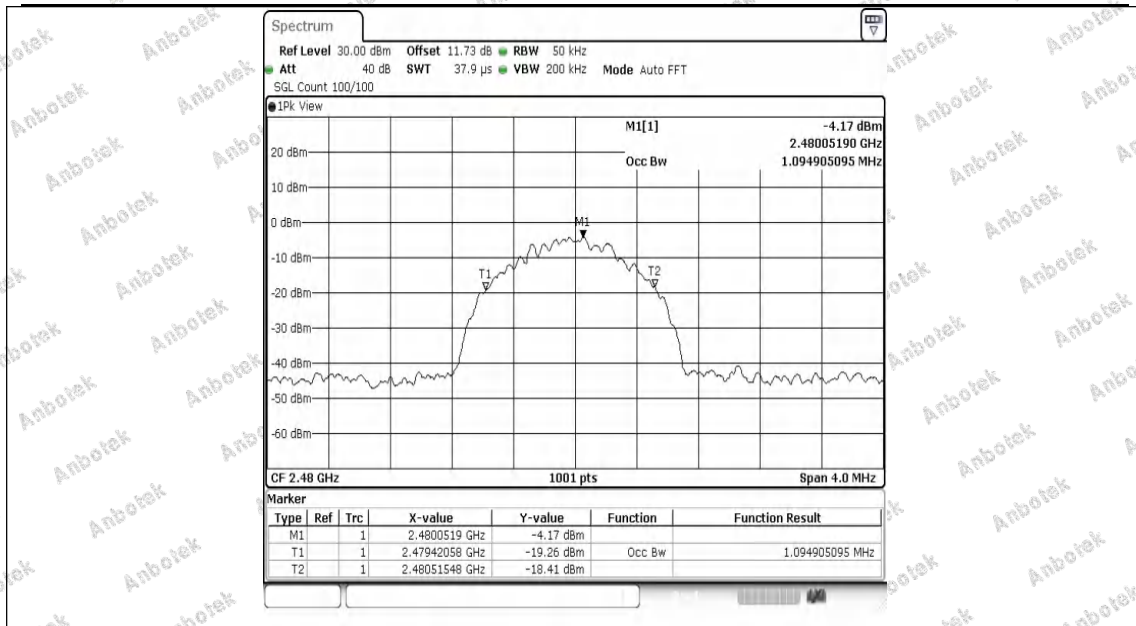


BLE\_1M-Ant1-2402

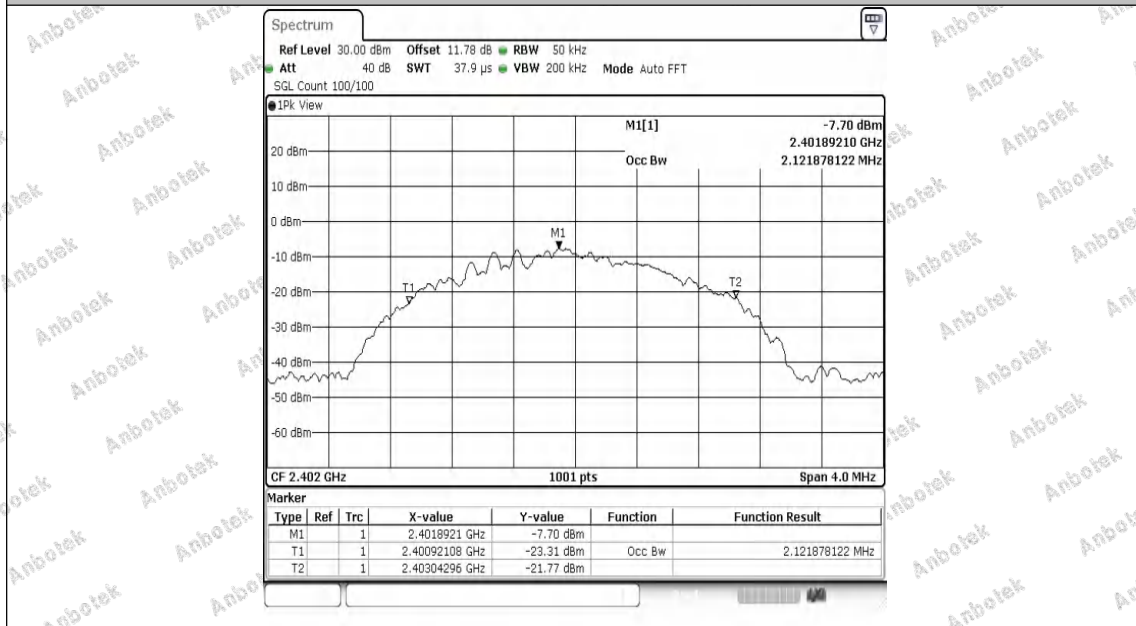


BLE\_1M-Ant1-2440



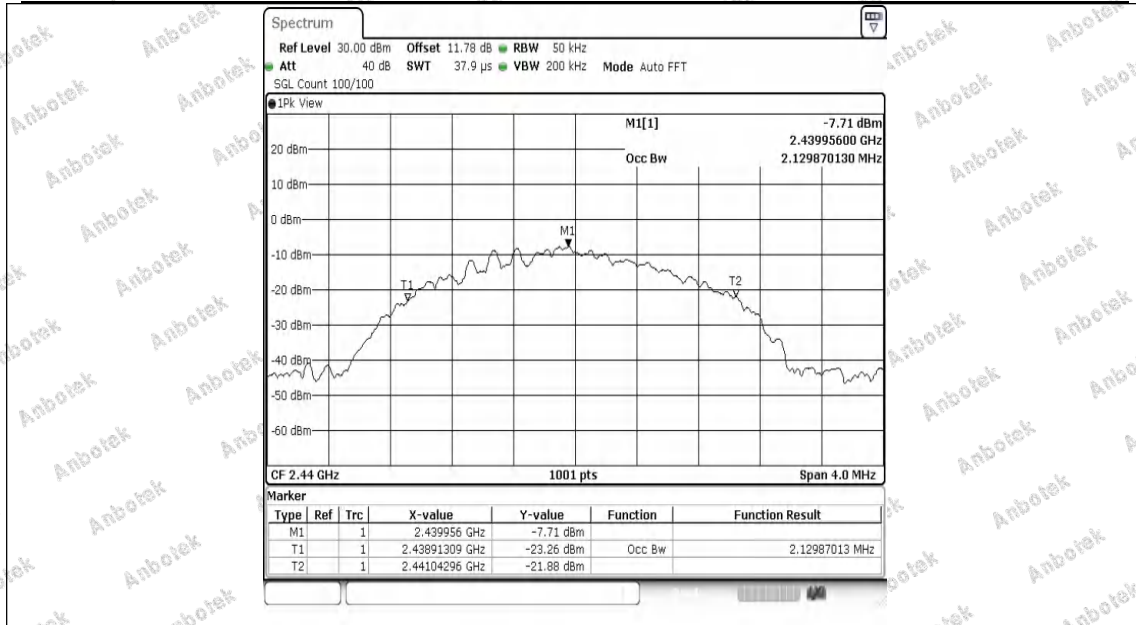


BLE\_1M-Ant1-2480

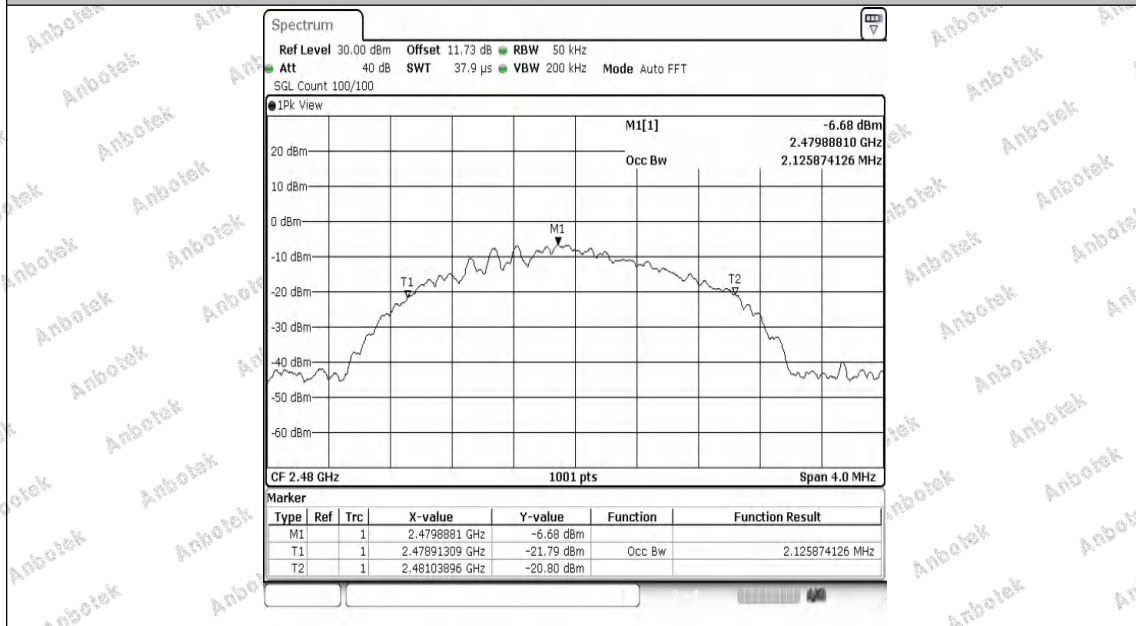


BLE\_2M-Ant1-2402





BLE\_2M-Ant1-2440



BLE\_2M-Ant1-2480





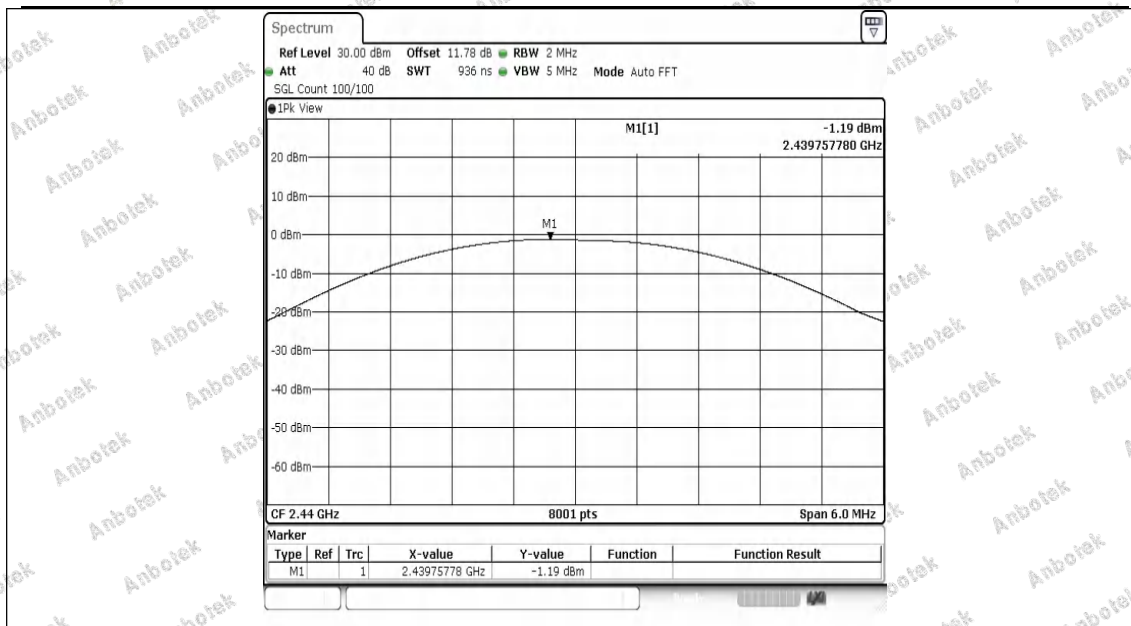
## Appendix C: Maximum conducted output power

### Test Result Peak

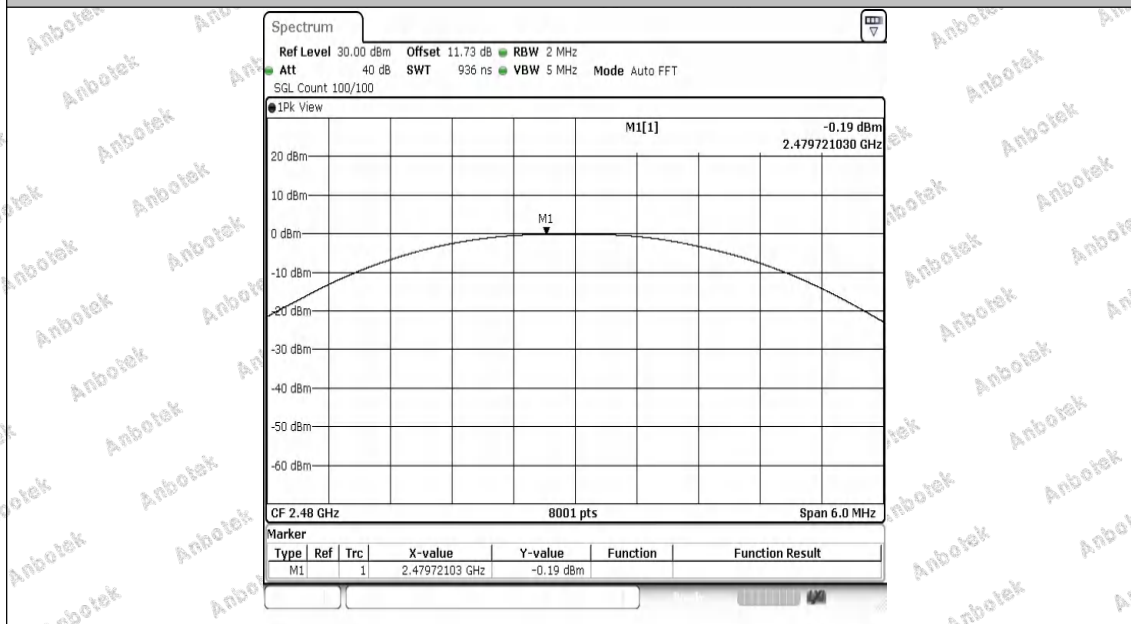
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.28	≤30	PASS
BLE_1M	Ant1	2440	-1.19	≤30	PASS
BLE_1M	Ant1	2480	-0.19	≤30	PASS
BLE_2M	Ant1	2402	-1.52	≤30	PASS
BLE_2M	Ant1	2440	-1.34	≤30	PASS
BLE_2M	Ant1	2480	-0.46	≤30	PASS

### Test Graphs Peak



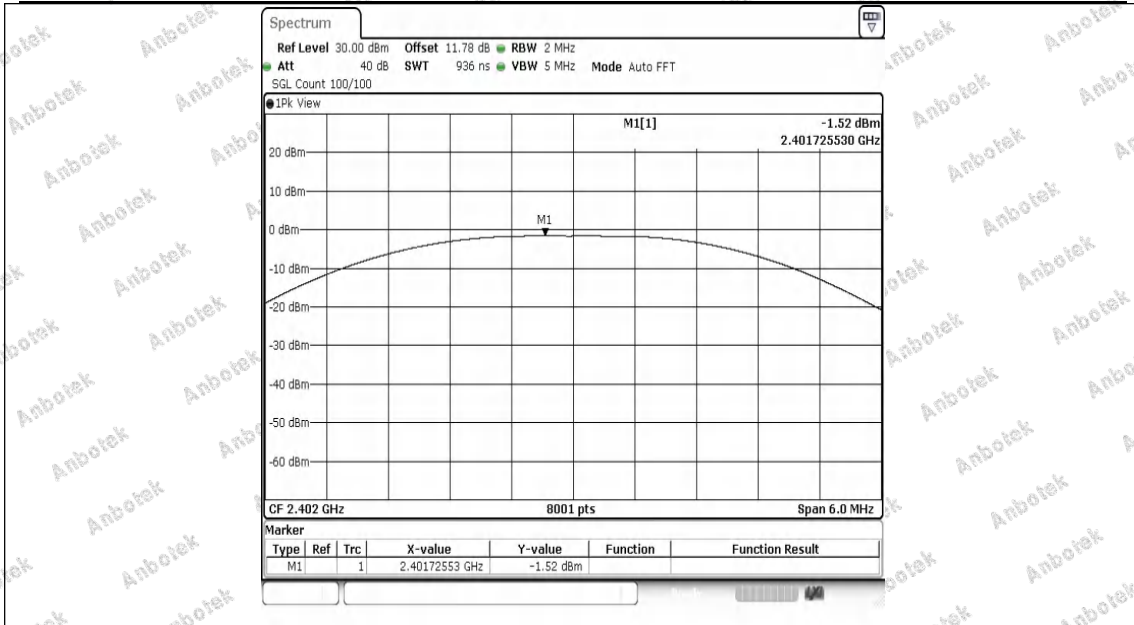


BLE\_1M-Ant1-2440-PASS

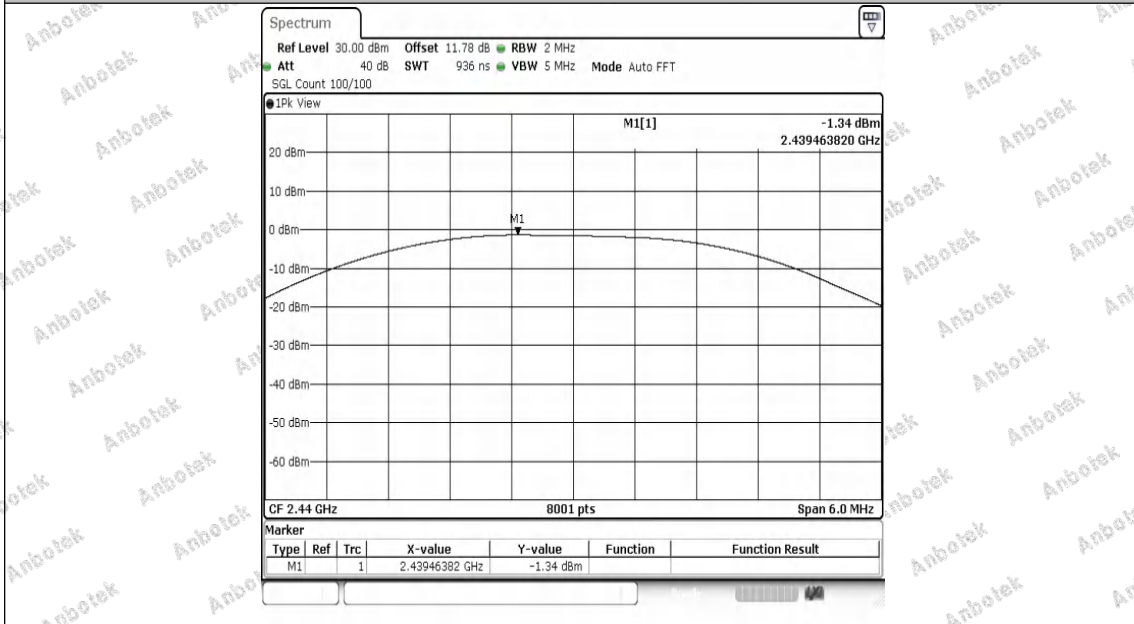


BLE\_1M-Ant1-2480-PASS



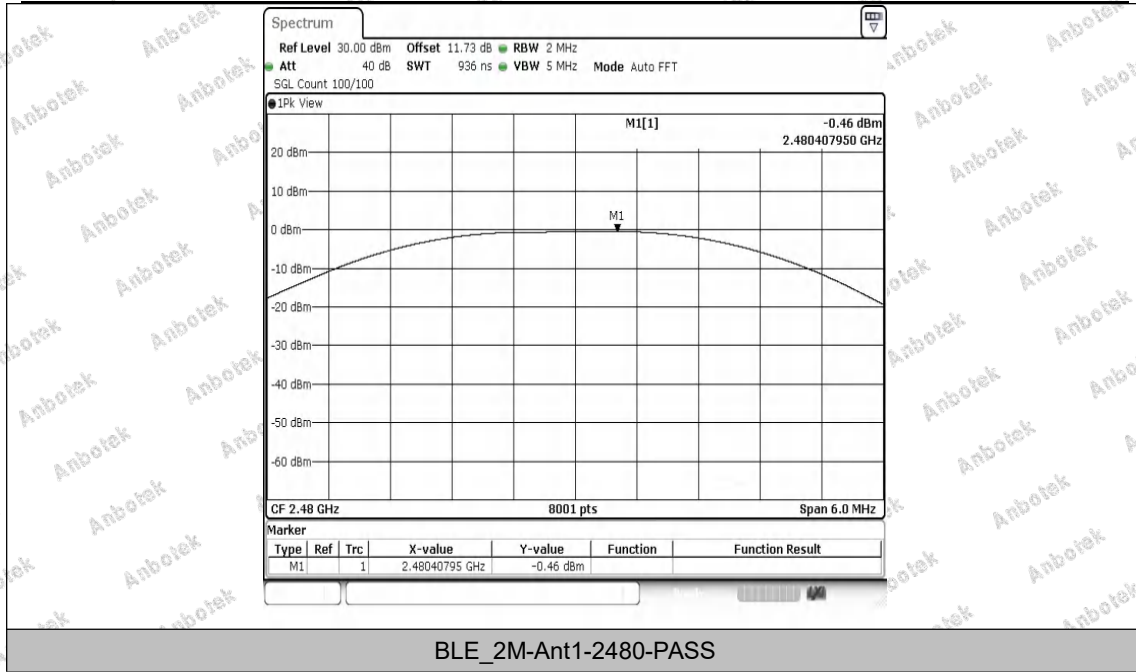


BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS





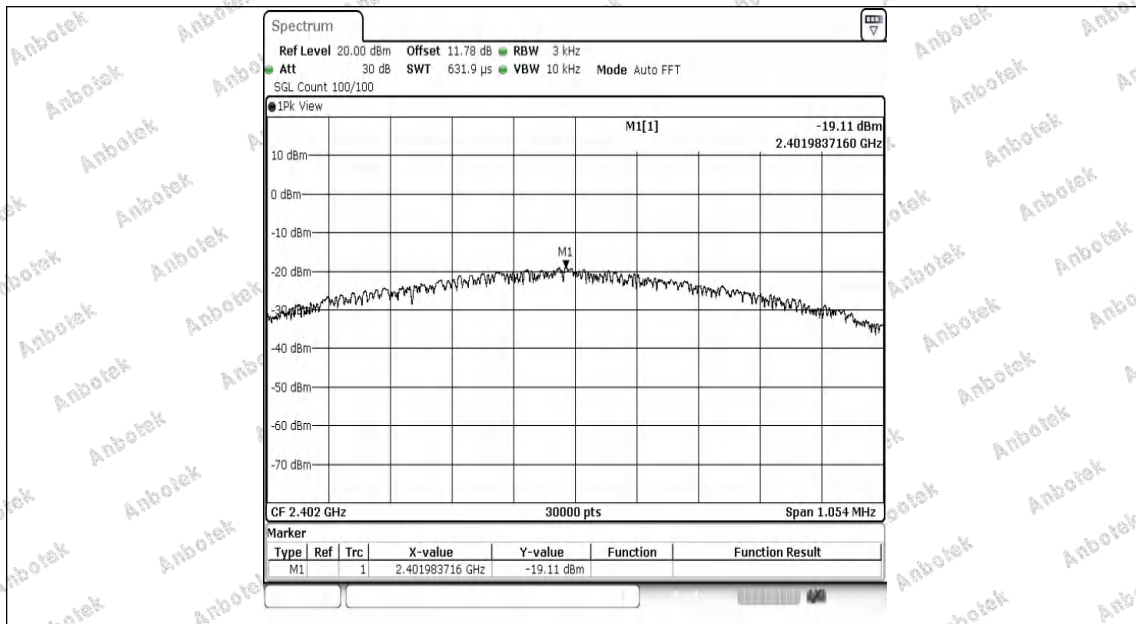
## Appendix D: Maximum power spectral density

### Test Result

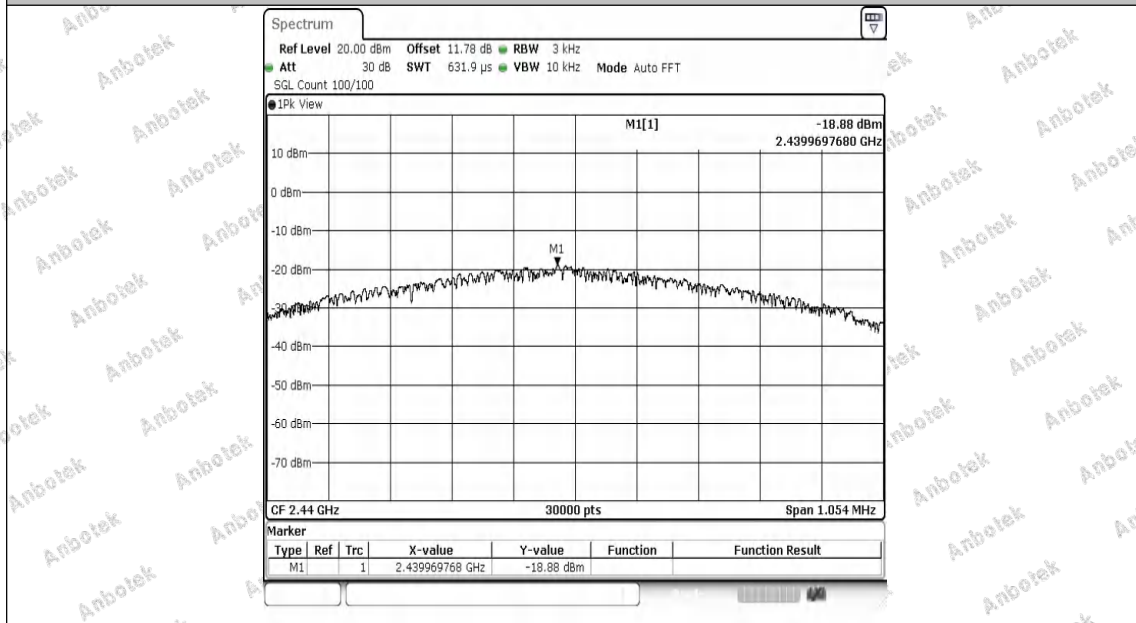
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.11	≤8.00	PASS
BLE_1M	Ant1	2440	-18.88	≤8.00	PASS
BLE_1M	Ant1	2480	-17.85	≤8.00	PASS
BLE_2M	Ant1	2402	-23.77	≤8.00	PASS
BLE_2M	Ant1	2440	-23.28	≤8.00	PASS
BLE_2M	Ant1	2480	-22.46	≤8.00	PASS



## Test Graphs

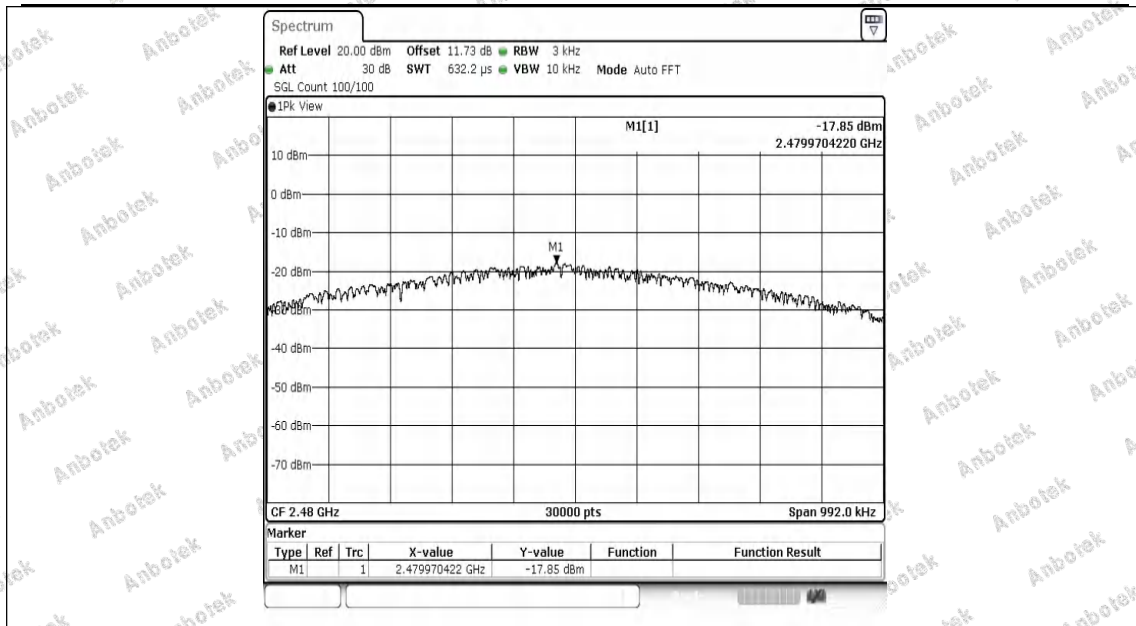


BLE\_1M-Ant1-2402-PASS

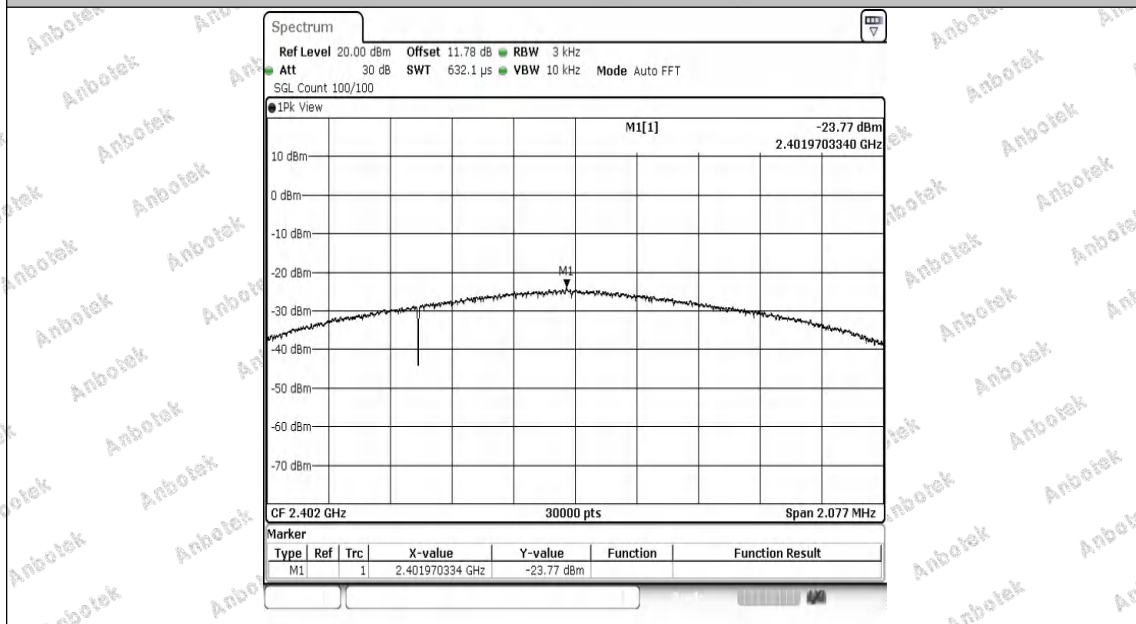


BLE\_1M-Ant1-2440-PASS



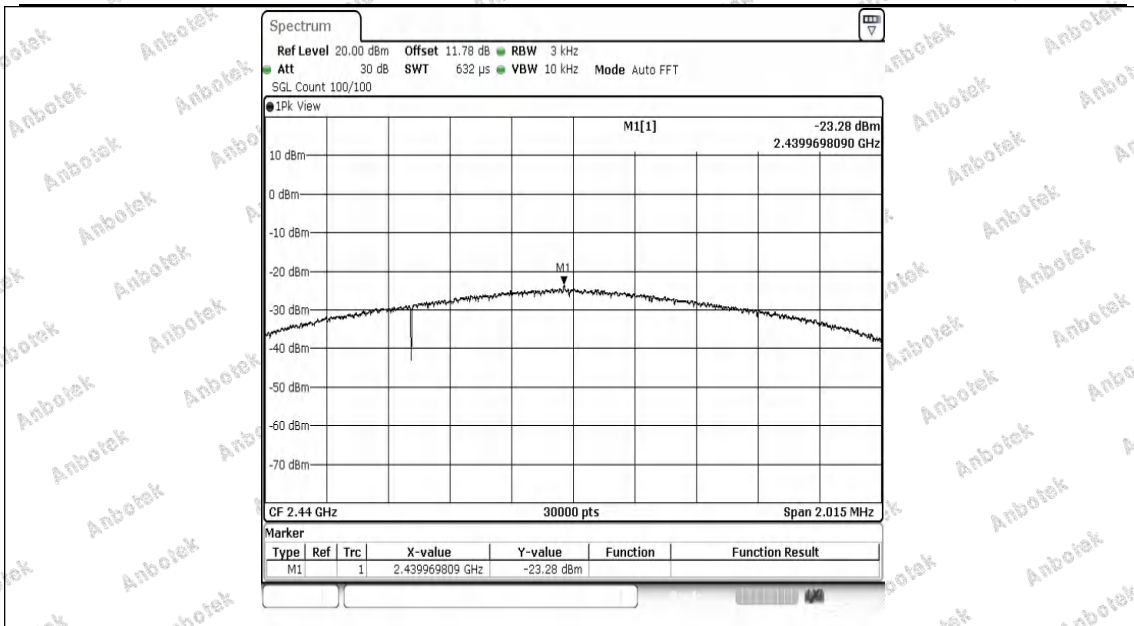


BLE\_1M-Ant1-2480-PASS

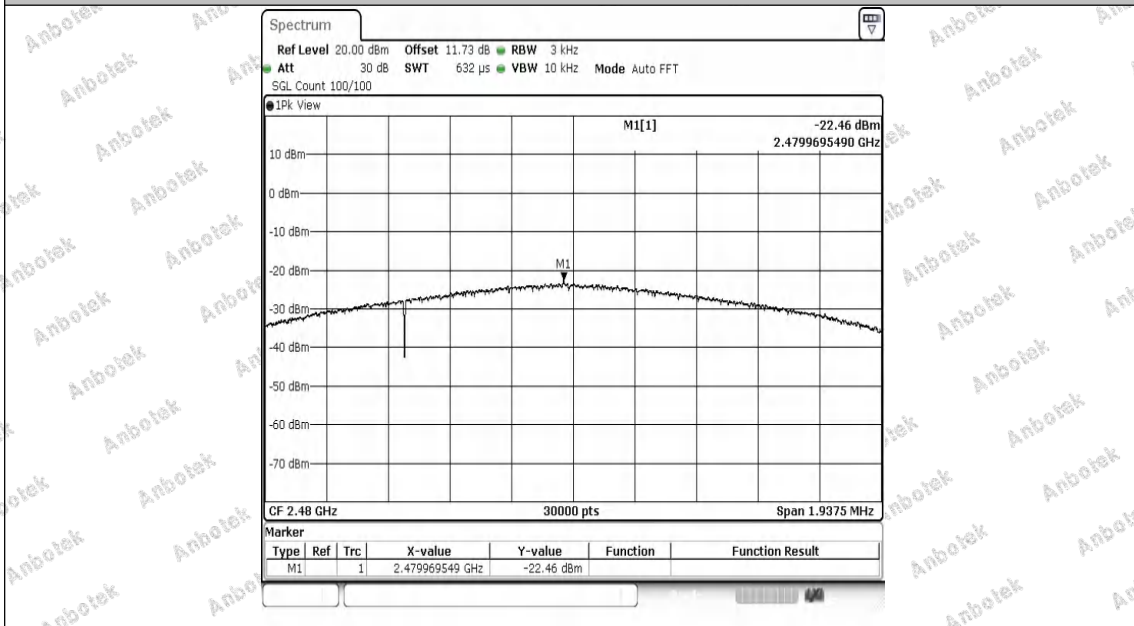


BLE\_2M-Ant1-2402-PASS





BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS





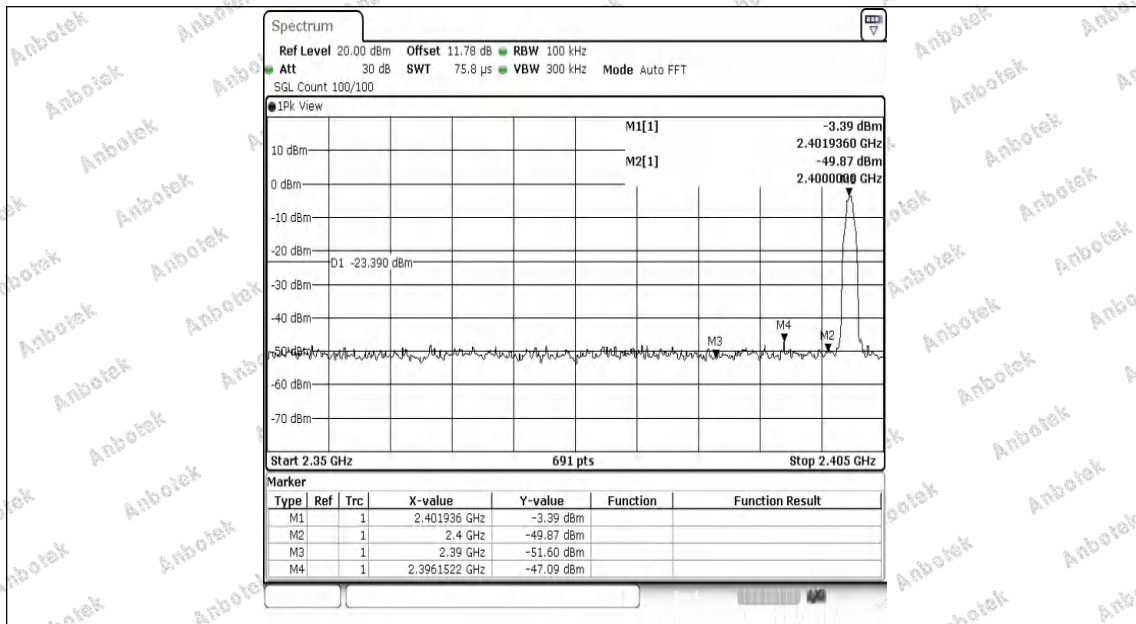
## Appendix E: Band edge measurements

### Test Result

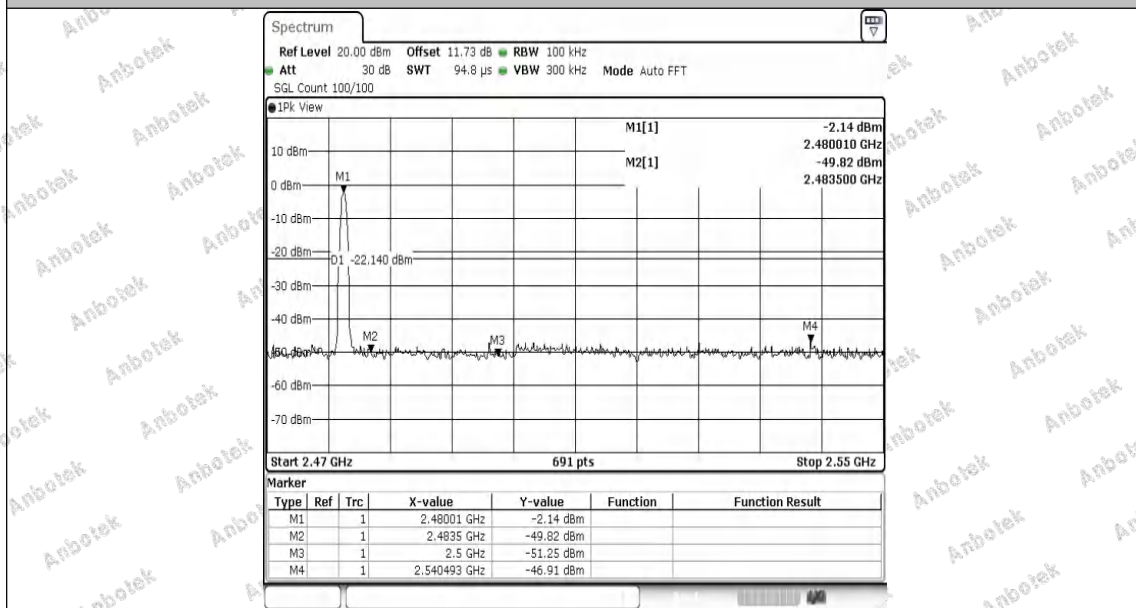
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.39	-47.09	≤-23.39	PASS
BLE_1M	Ant1	High	2480	-2.14	-46.91	≤-22.14	PASS
BLE_2M	Ant1	Low	2402	-5.16	-47.4	≤-25.16	PASS
BLE_2M	Ant1	High	2480	-4.09	-46.58	≤-24.09	PASS



## Test Graphs

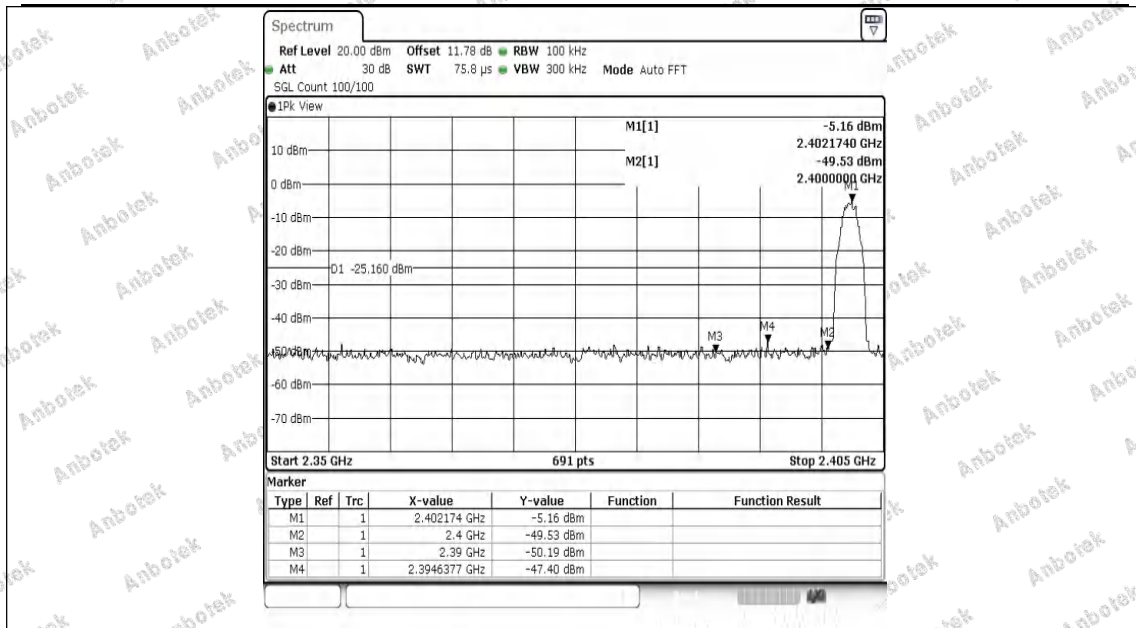


BLE\_1M-Ant1-2402-PASS

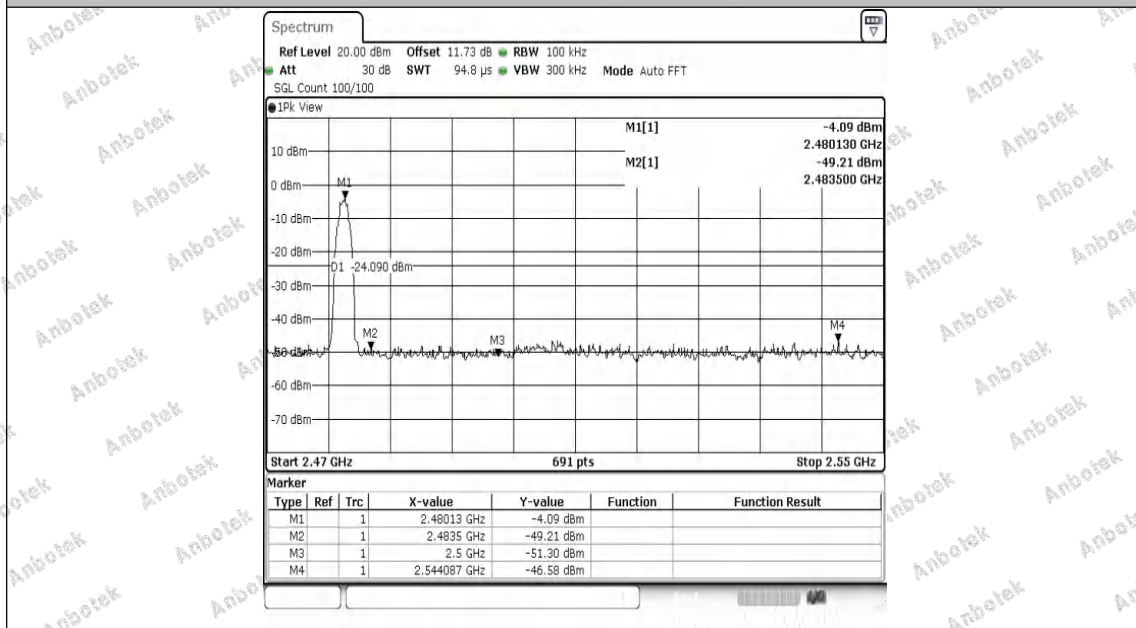


BLE\_1M-Ant1-2480-PASS





BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2480-PASS



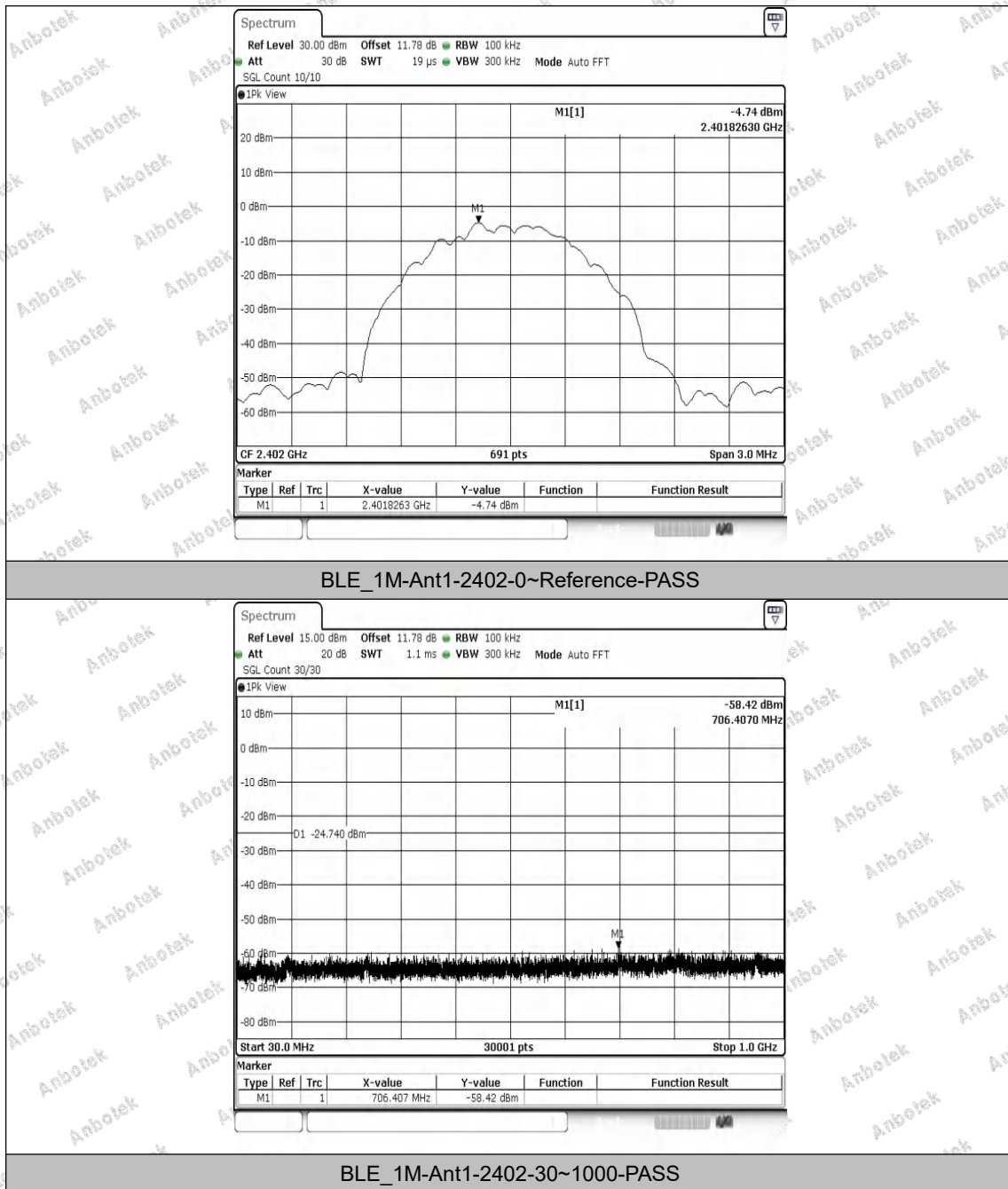
## Appendix F: Conducted Spurious Emission

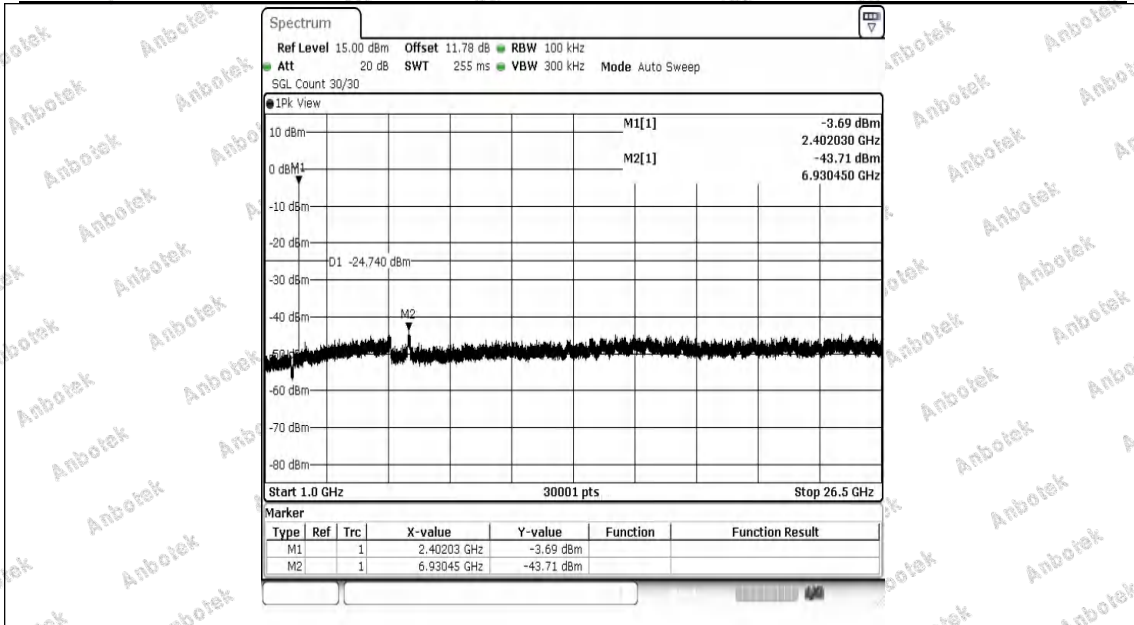
### Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-4.74	-4.74	---	PASS
BLE_1M	Ant1	2402	30~1000	-4.74	-58.42	≤-24.74	PASS
BLE_1M	Ant1	2402	1000~26500	-4.74	-43.71	≤-24.74	PASS
BLE_1M	Ant1	2440	0~Reference	-4.44	-4.44	---	PASS
BLE_1M	Ant1	2440	30~1000	-4.44	-56.29	≤-24.44	PASS
BLE_1M	Ant1	2440	1000~26500	-4.44	-43.53	≤-24.44	PASS
BLE_1M	Ant1	2480	0~Reference	-3.11	-3.11	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.11	-57.09	≤-23.11	PASS
BLE_1M	Ant1	2480	1000~26500	-3.11	-42.8	≤-23.11	PASS
BLE_2M	Ant1	2402	0~Reference	-6.19	-6.19	---	PASS
BLE_2M	Ant1	2402	30~1000	-6.19	-58.9	≤-26.19	PASS
BLE_2M	Ant1	2402	1000~26500	-6.19	-43.79	≤-26.19	PASS
BLE_2M	Ant1	2440	0~Reference	-6.10	-6.10	---	PASS
BLE_2M	Ant1	2440	30~1000	-6.10	-56.99	≤-26.1	PASS
BLE_2M	Ant1	2440	1000~26500	-6.10	-43.96	≤-26.1	PASS
BLE_2M	Ant1	2480	0~Reference	-4.23	-4.23	---	PASS
BLE_2M	Ant1	2480	30~1000	-4.23	-56.89	≤-24.23	PASS
BLE_2M	Ant1	2480	1000~26500	-4.23	-43.33	≤-24.23	PASS

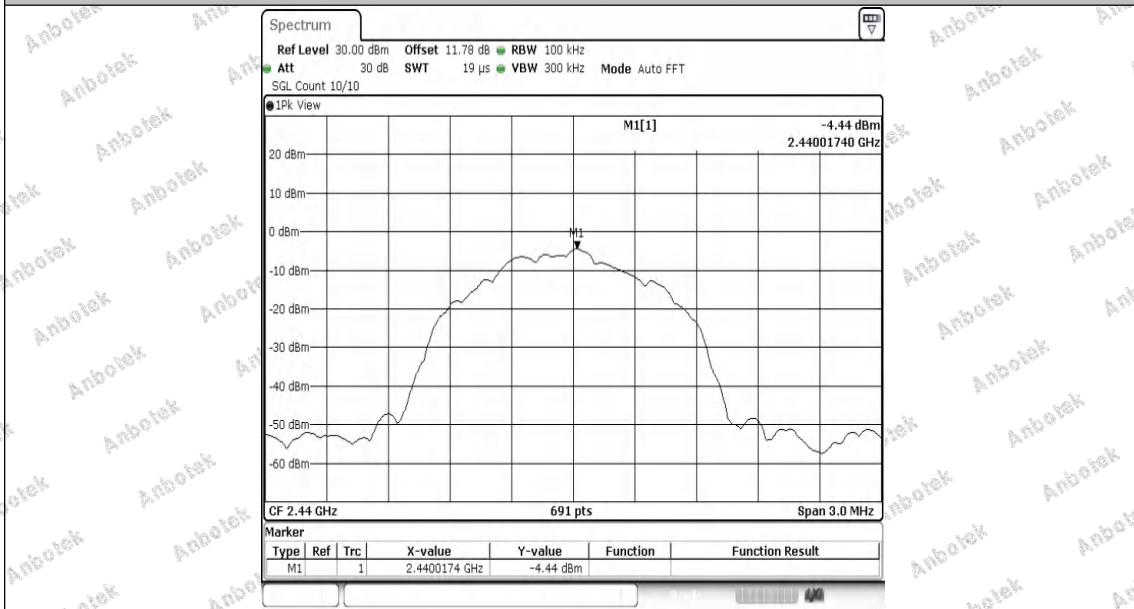


**Test Graphs**



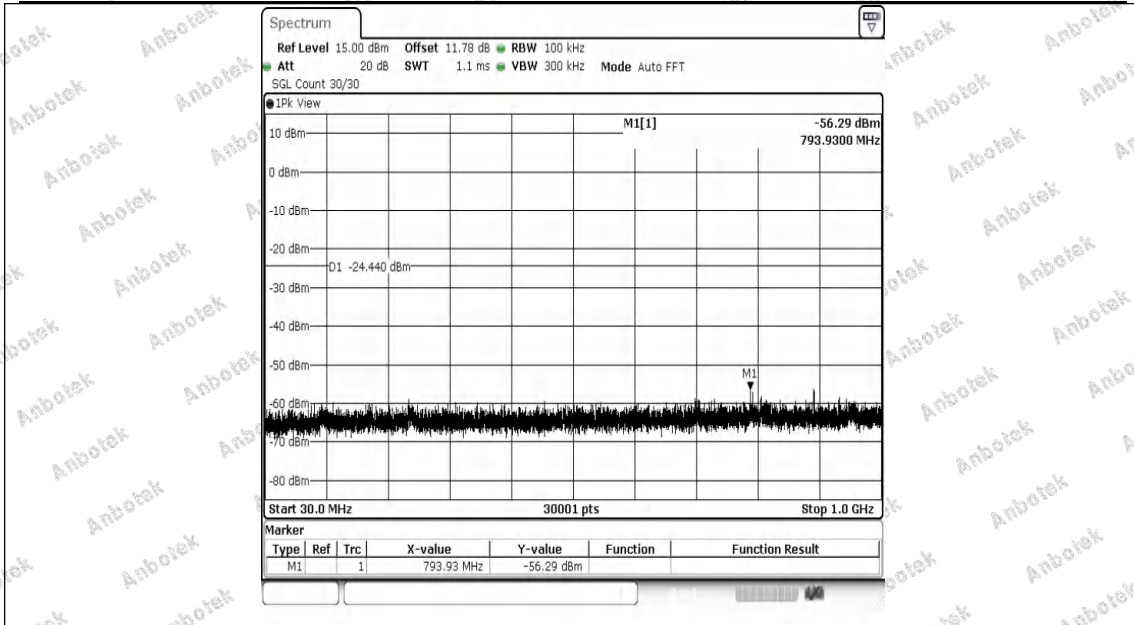


BLE\_1M-Ant1-2402-1000~26500-PASS

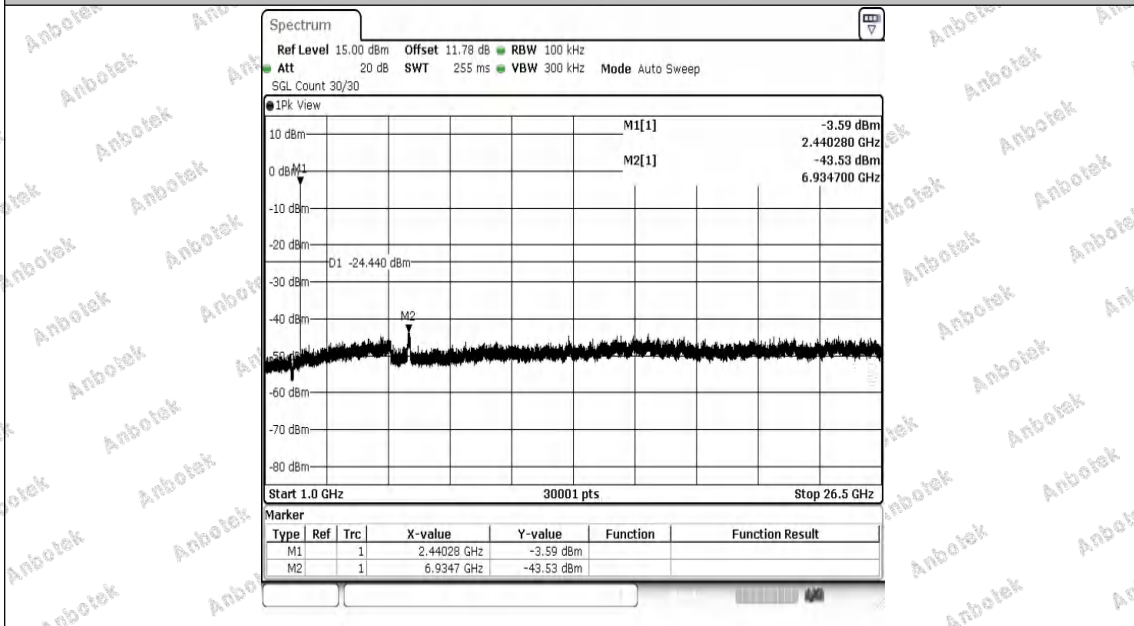


BLE\_1M-Ant1-2440-0~Reference-PASS



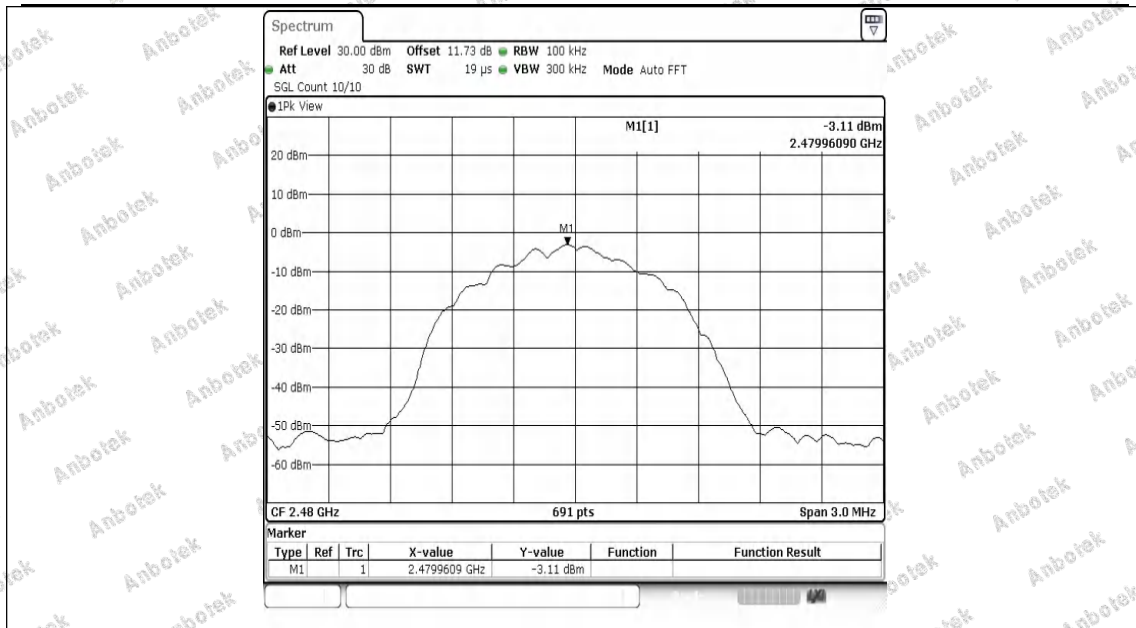


BLE\_1M-Ant1-2440-30~1000-PASS

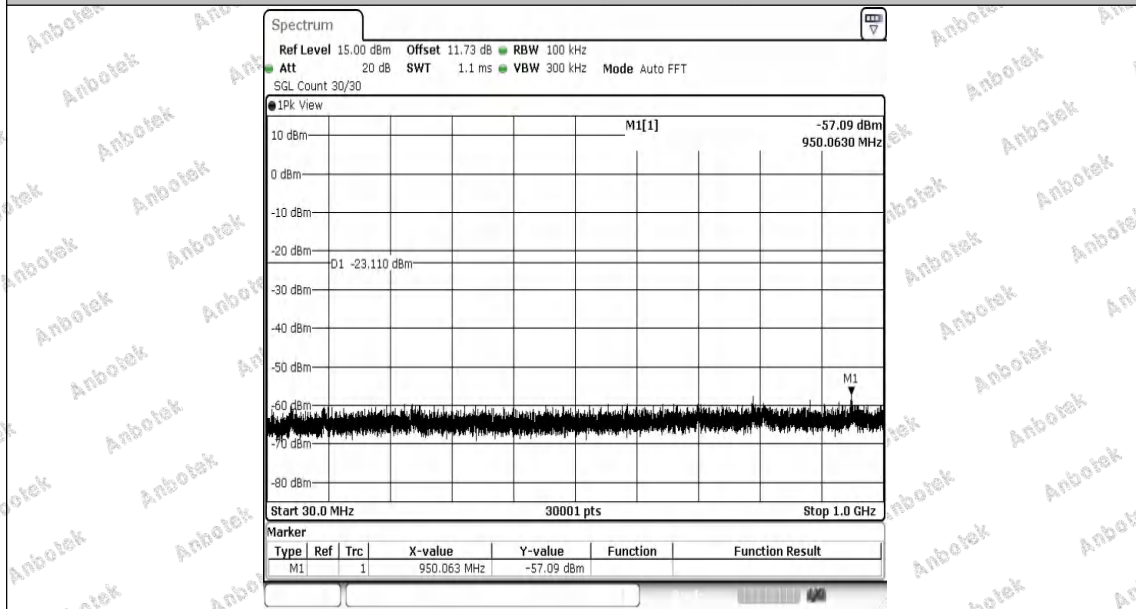


BLE\_1M-Ant1-2440-1000~26500-PASS





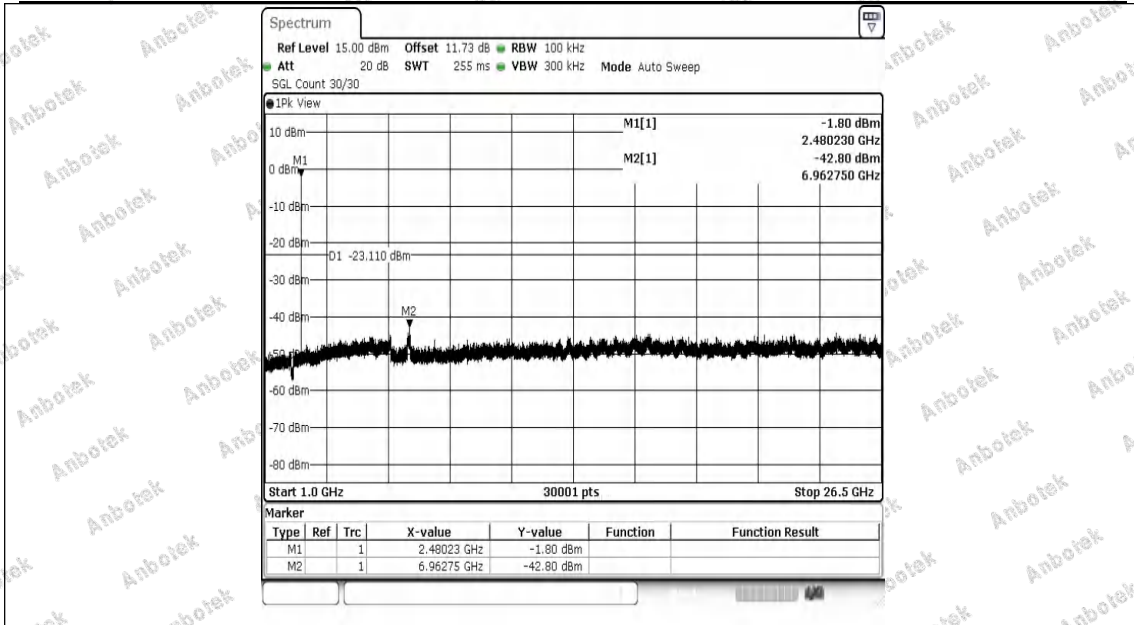
BLE\_1M-Ant1-2480-0~Reference-PASS



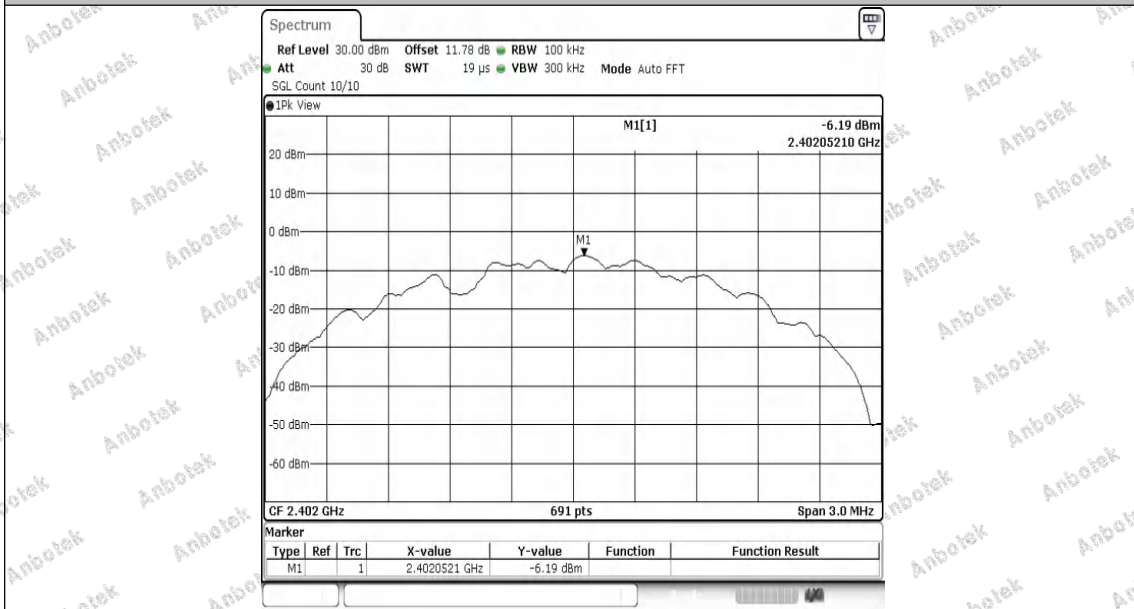
BLE\_1M-Ant1-2480-30~1000-PASS





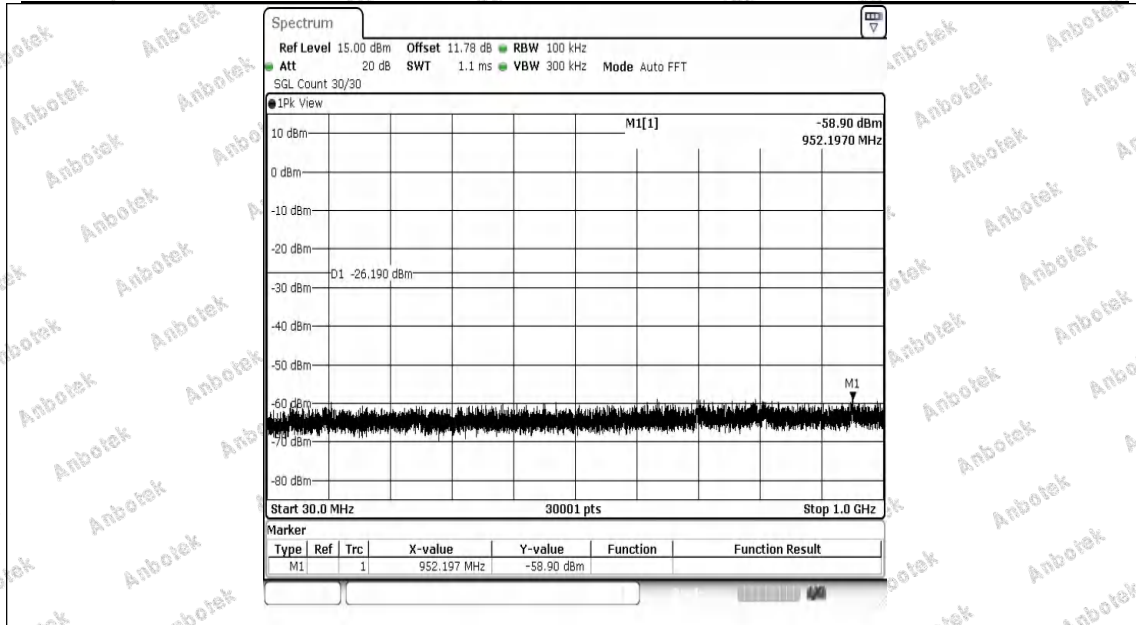


BLE\_1M-Ant1-2480-1000~26500-PASS

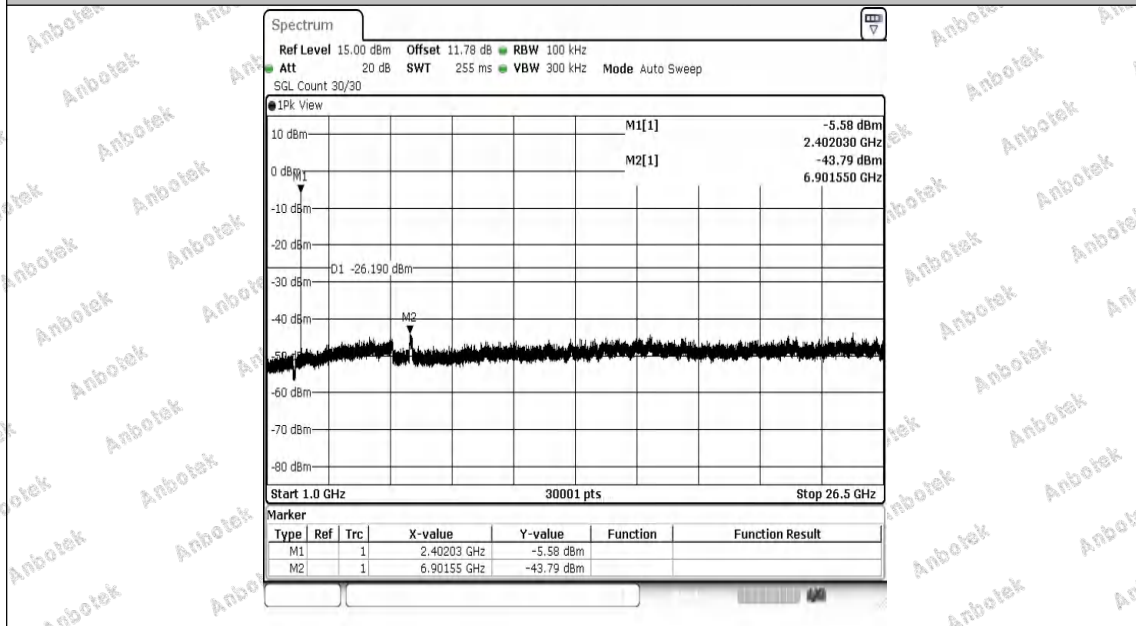


BLE\_2M-Ant1-2402-0~Reference-PASS



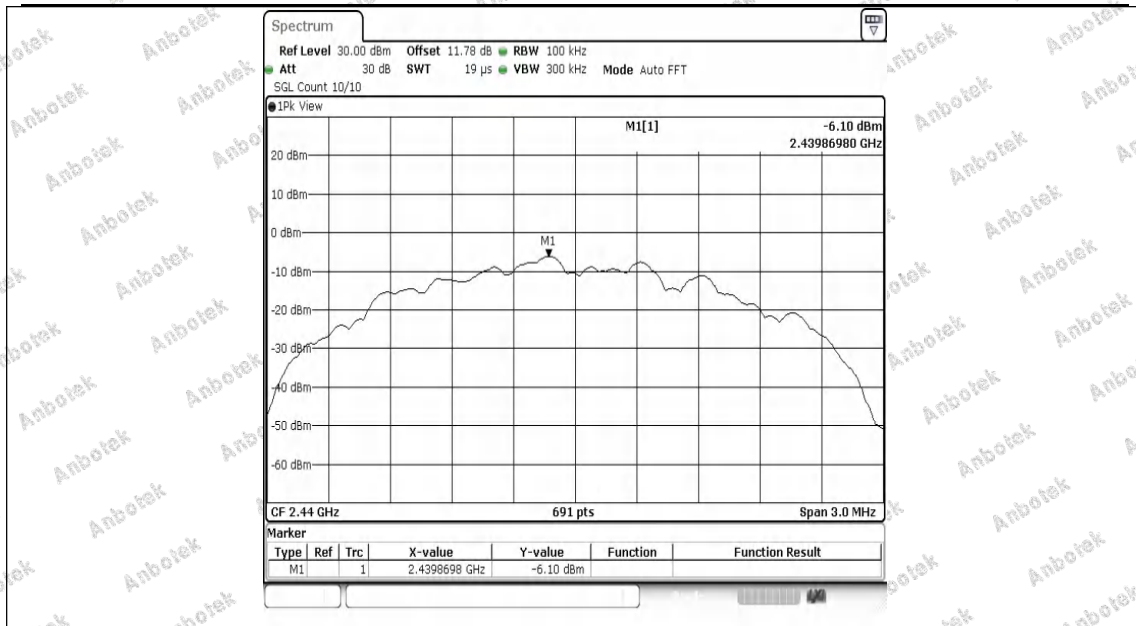


BLE\_2M-Ant1-2402-30~1000-PASS

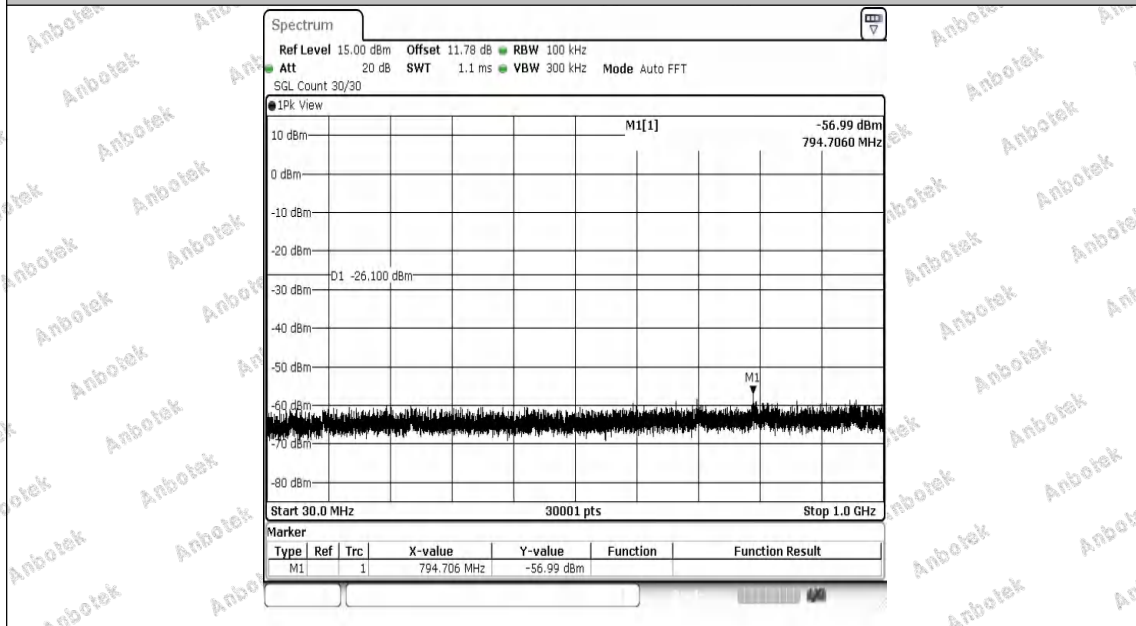


BLE\_2M-Ant1-2402-1000~26500-PASS



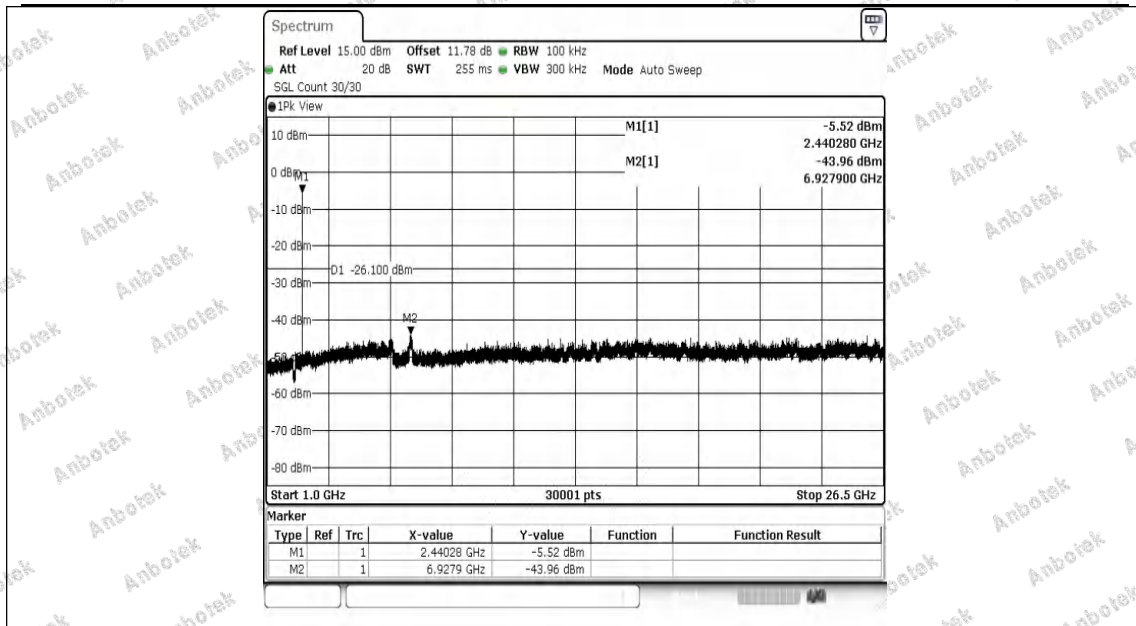


BLE\_2M-Ant1-2440-0~Reference-PASS

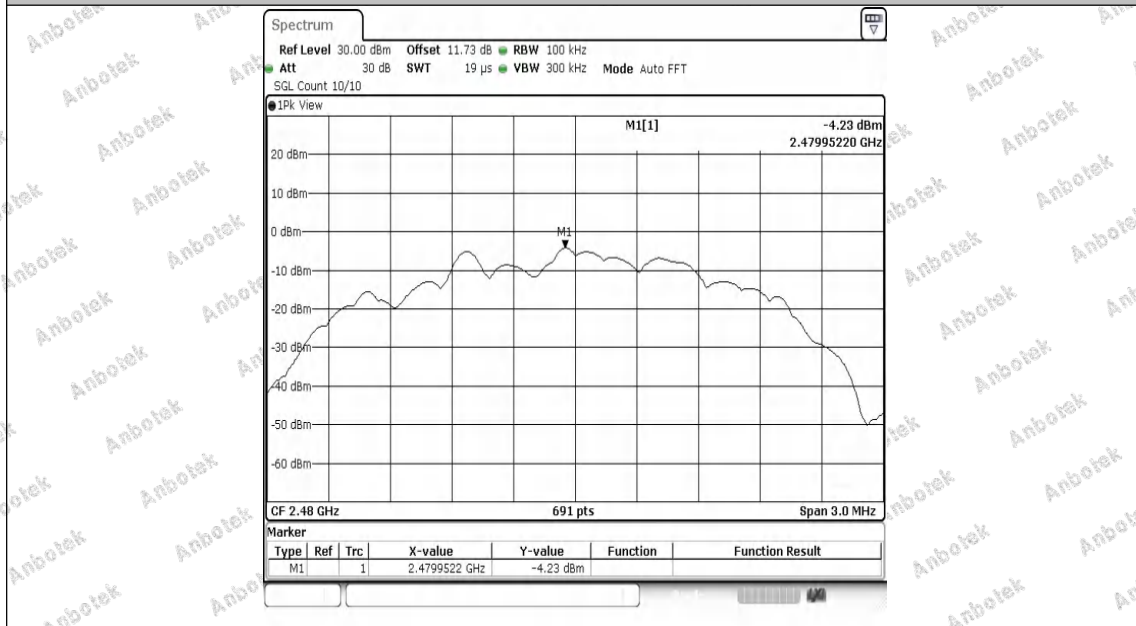


BLE\_2M-Ant1-2440-30~1000-PASS



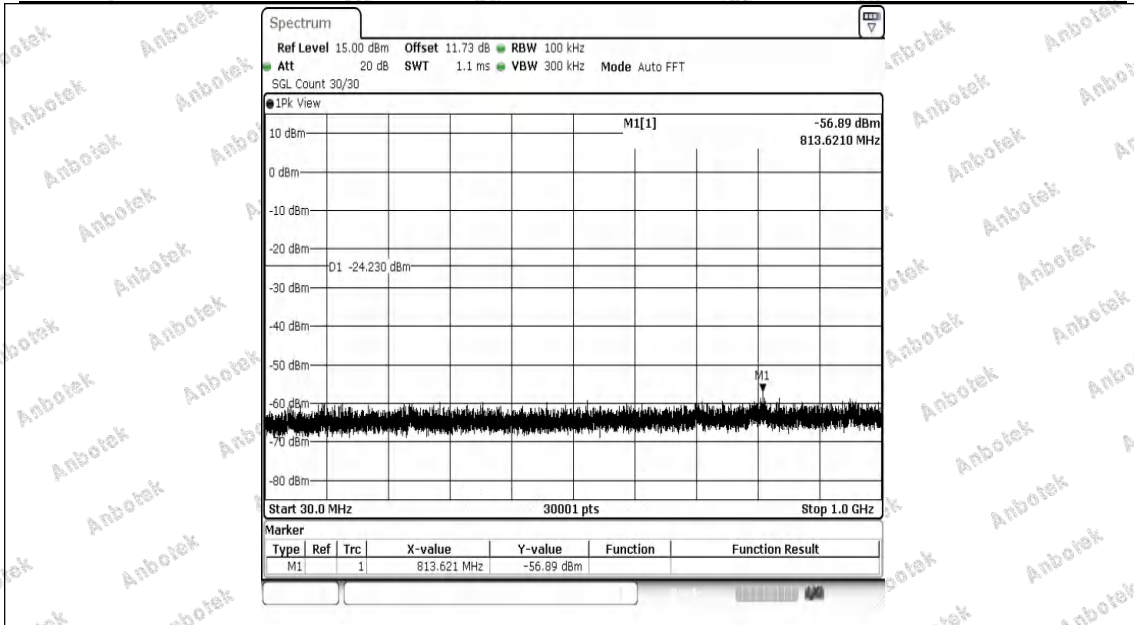


BLE\_2M-Ant1-2440-1000~26500-PASS

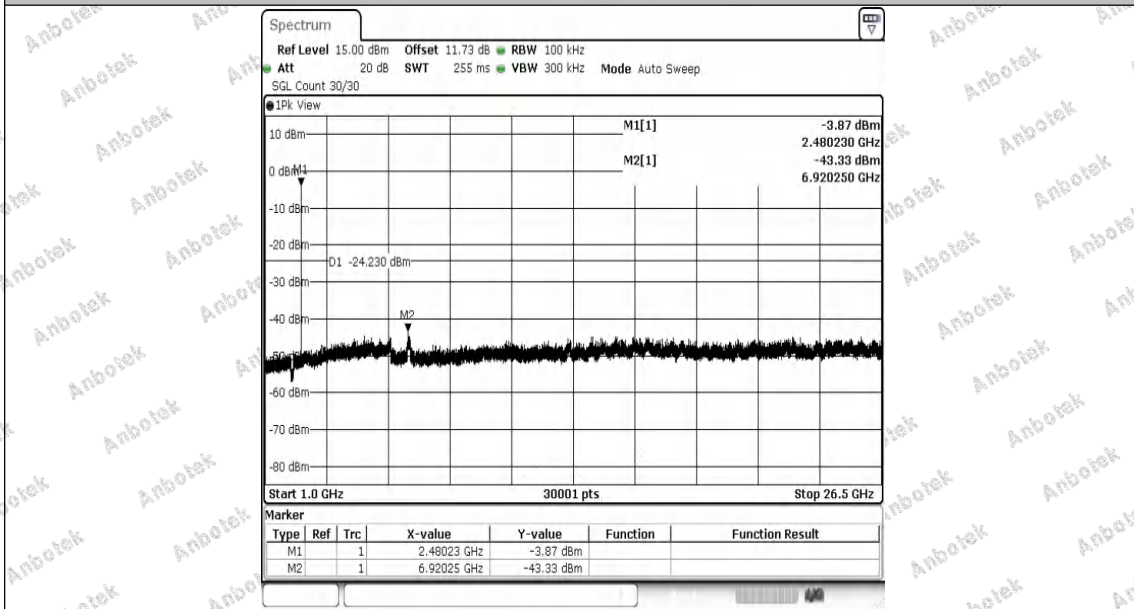


BLE\_2M-Ant1-2480-0~Reference-PASS





BLE\_2M-Ant1-2480-30~1000-PASS



BLE\_2M-Ant1-2480-1000~26500-PASS



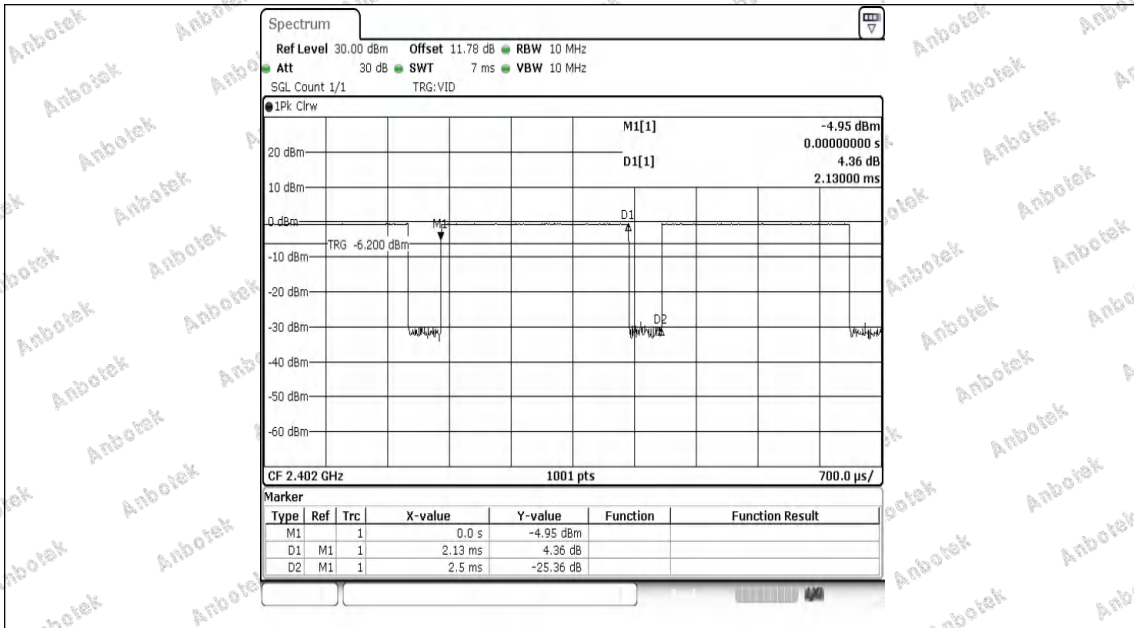
## Appendix G: Duty Cycle

### Test Result

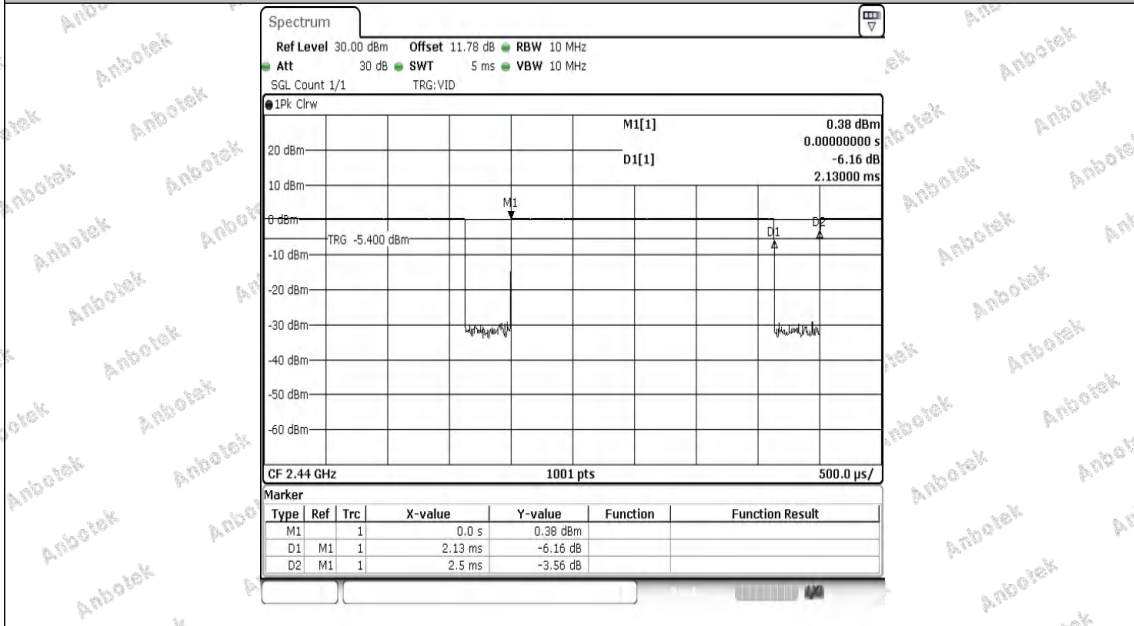
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2440	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2480	2.13	2.51	84.86	0.71
BLE_2M	Ant1	2402	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2440	2.13	2.51	84.86	0.71
BLE_2M	Ant1	2480	2.13	2.50	85.20	0.70



## Test Graphs

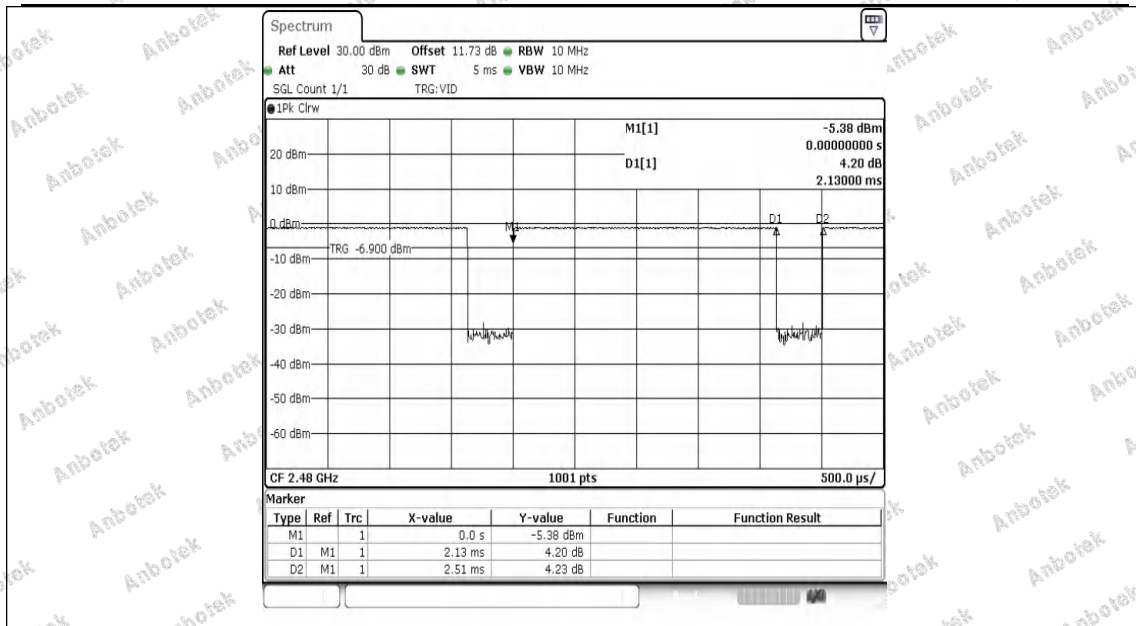


NTNV-BLE\_1M-Ant1-2402

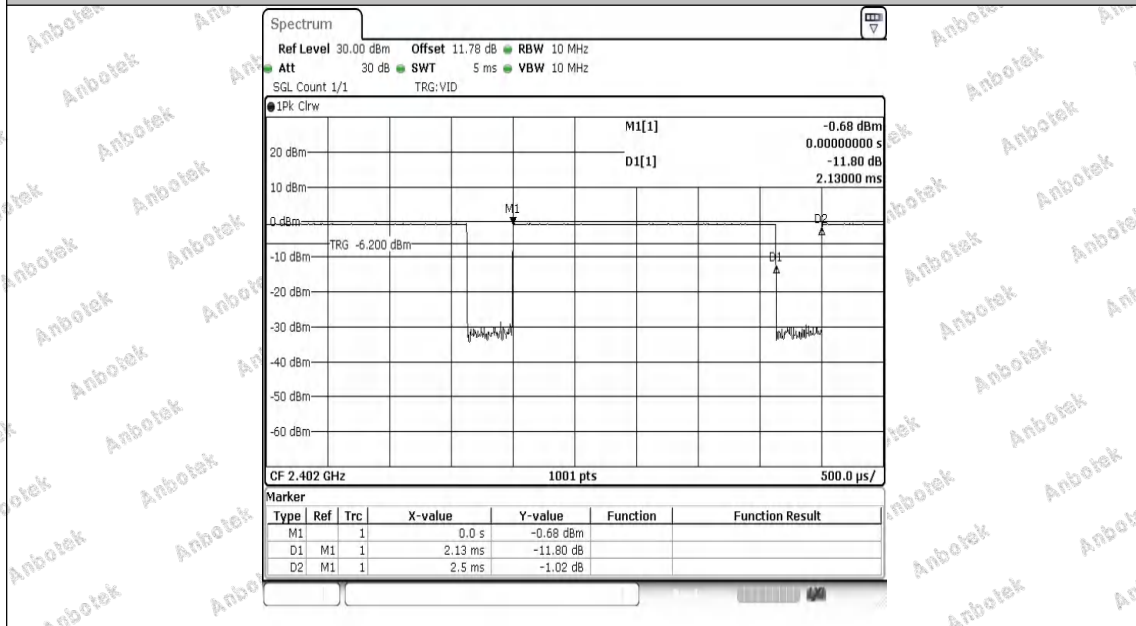


NTNV-BLE\_1M-Ant1-2440





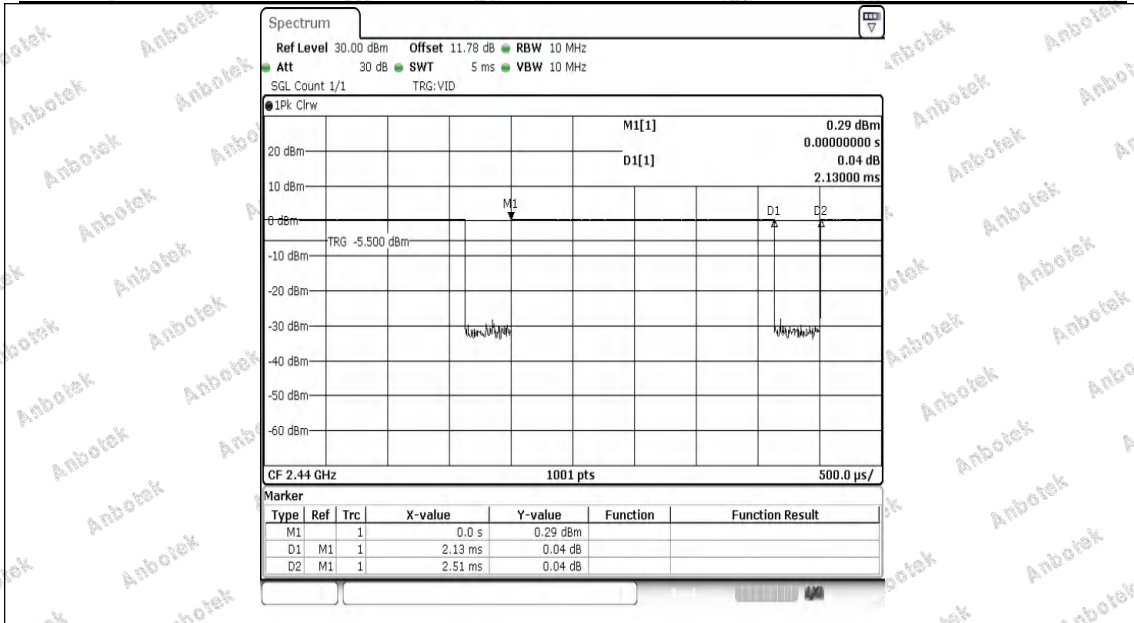
NTNV-BLE\_1M-Ant1-2480



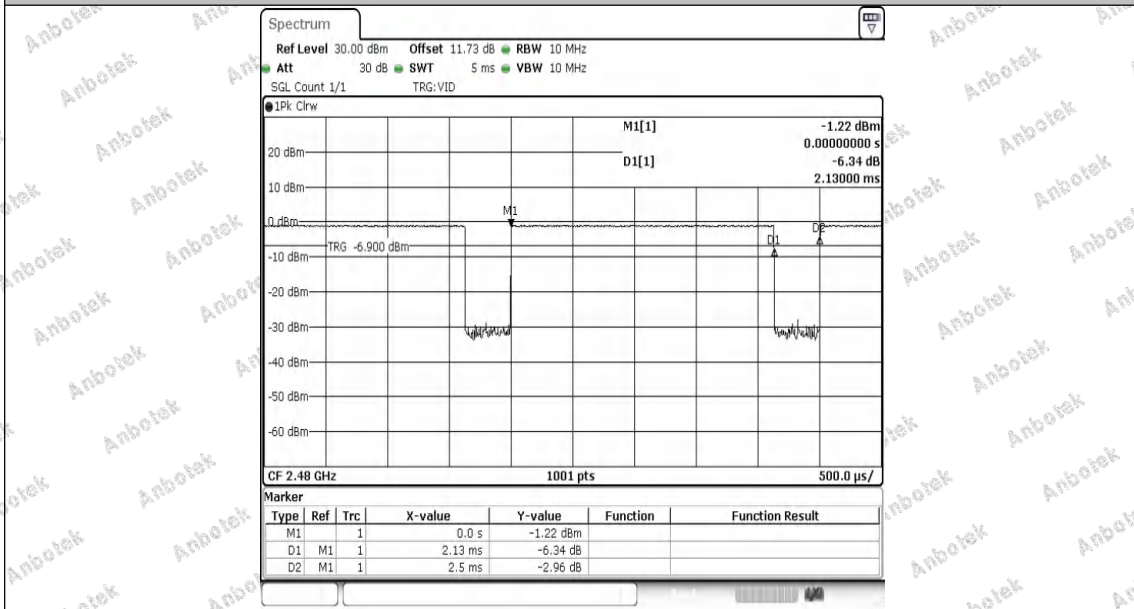
NTNV-BLE\_2M-Ant1-2402







NTNV-BLE\_2M-Ant1-2440



NTNV-BLE\_2M-Ant1-2480

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