

Appendix Report

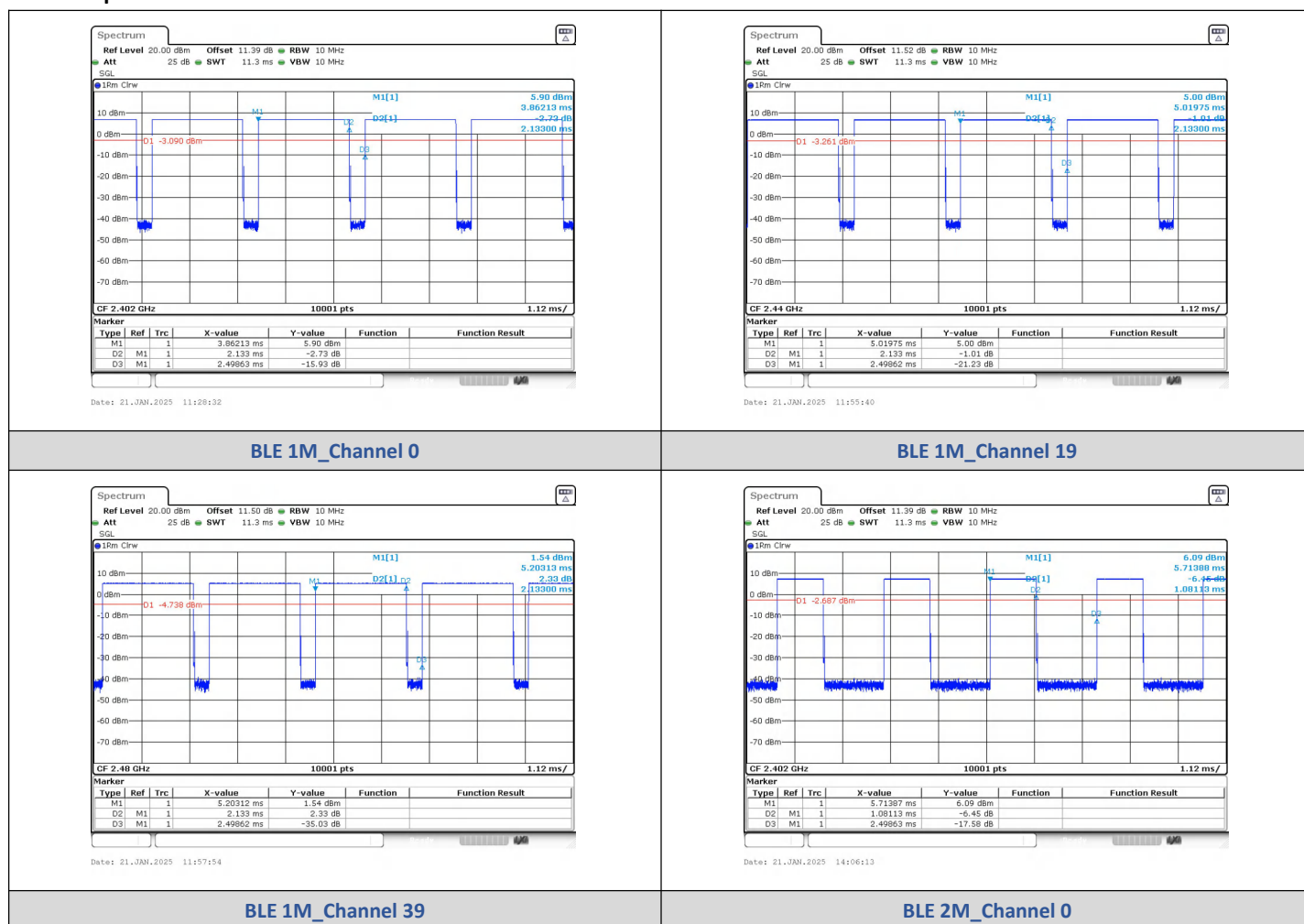
Report No.:	CISRR25011715706
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

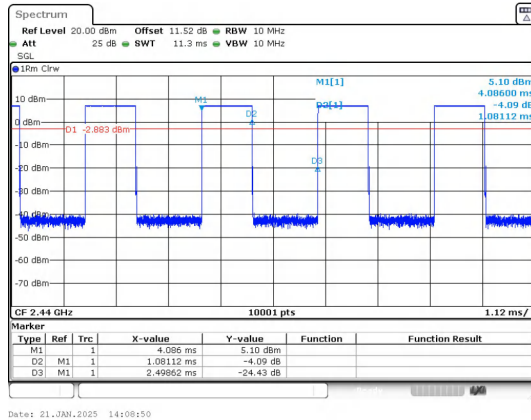
1) Duty Cycle

Test Result

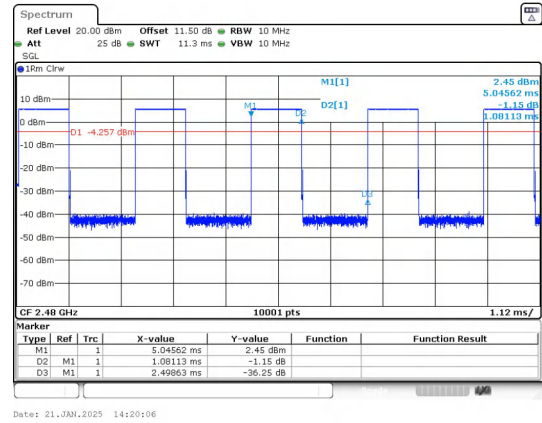
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.133	2.499	85.37	0.8537	0.6869	0.4688
	19	2.133	2.499	85.37	0.8537	0.6869	0.4688
	39	2.133	2.499	85.37	0.8537	0.6869	0.4688
BLE 2M	0	1.081	2.499	43.27	0.4327	3.6381	0.9251
	19	1.081	2.499	43.27	0.4327	3.6381	0.9251
	39	1.081	2.499	43.27	0.4327	3.6381	0.9251

Test Graphs





BLE 2M_Channel 19



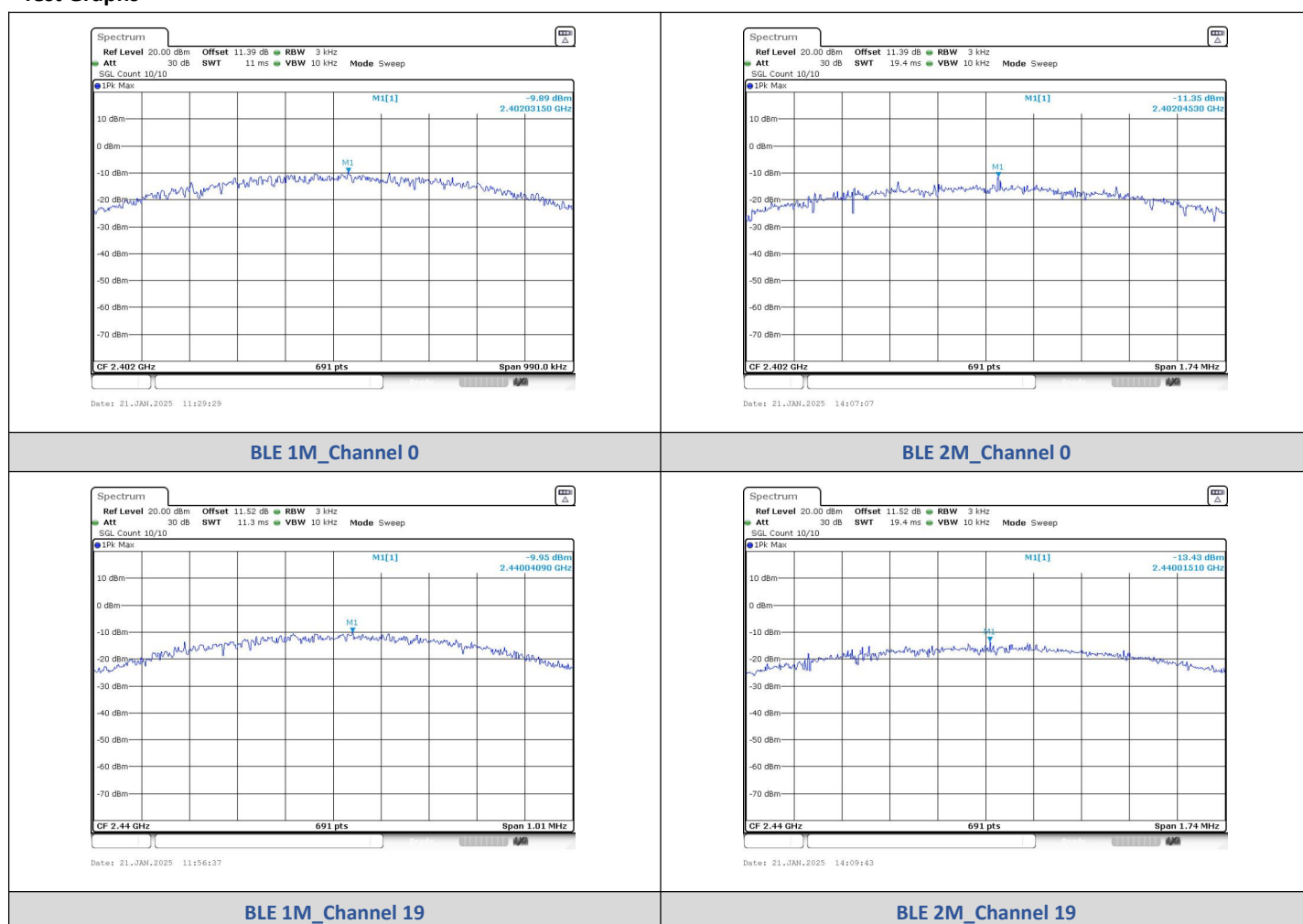
BLE 2M_Channel 39

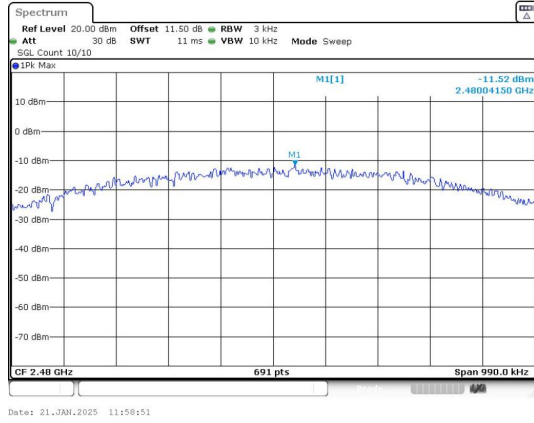
2) Power Spectral Density

Test Result

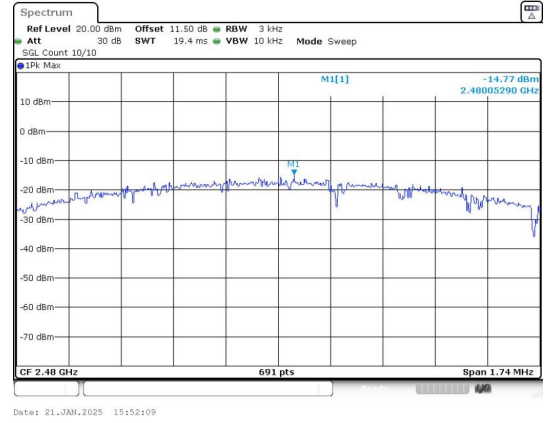
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-9.890	≤8	PASS
BLE 1M	19	-9.950	≤8	PASS
BLE 1M	39	-11.520	≤8	PASS
BLE 2M	0	-11.350	≤8	PASS
BLE 2M	19	-13.430	≤8	PASS
BLE 2M	39	-14.770	≤8	PASS

Test Graphs





BLE 1M_Channel 39



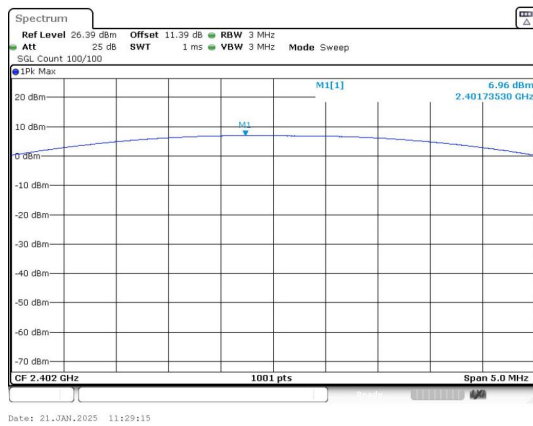
BLE 2M_Channel 39

3) Conducted Output Power

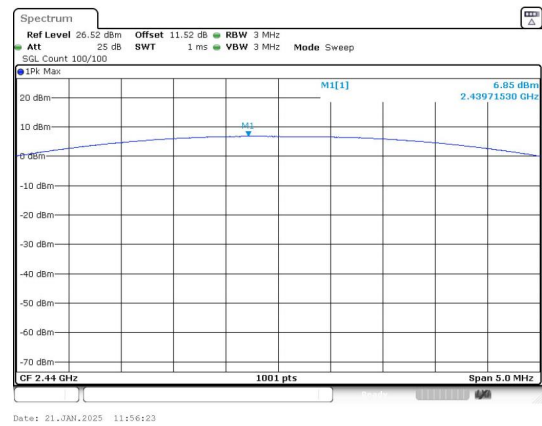
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	6.96	4.97	≤30	PASS
	19	6.85	4.84	≤30	PASS
	39	5.31	3.4	≤30	PASS
BLE 2M	0	7.32	5.4	≤30	PASS
	19	7.17	5.21	≤30	PASS
	39	5.81	3.81	≤30	PASS

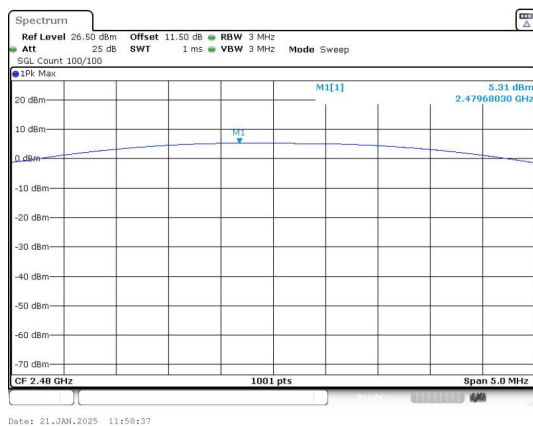
Test Graphs



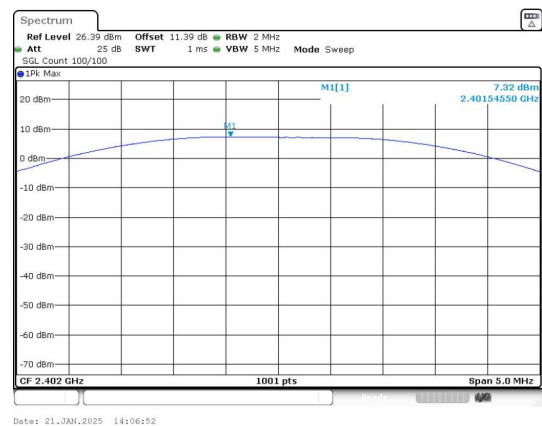
Peak Output Power
BLE 1M_Channel 0



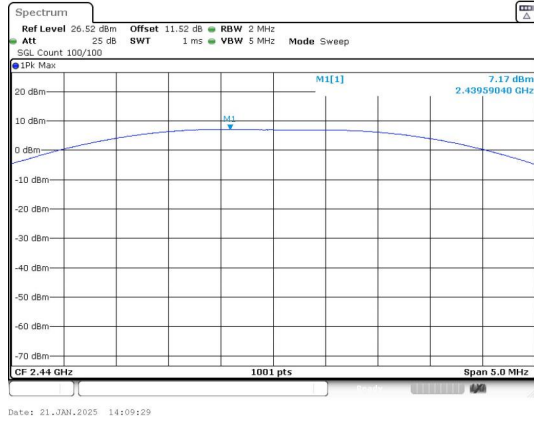
Peak Output Power
BLE 1M_Channel 19



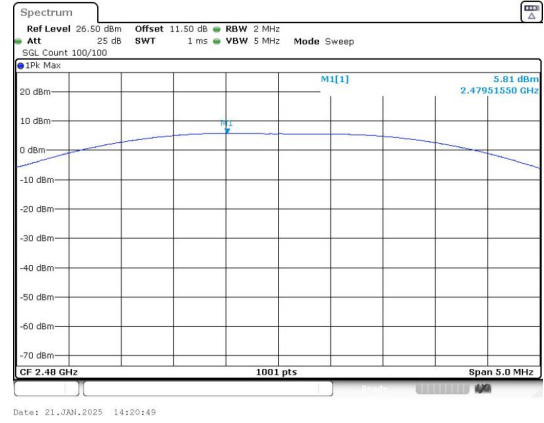
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



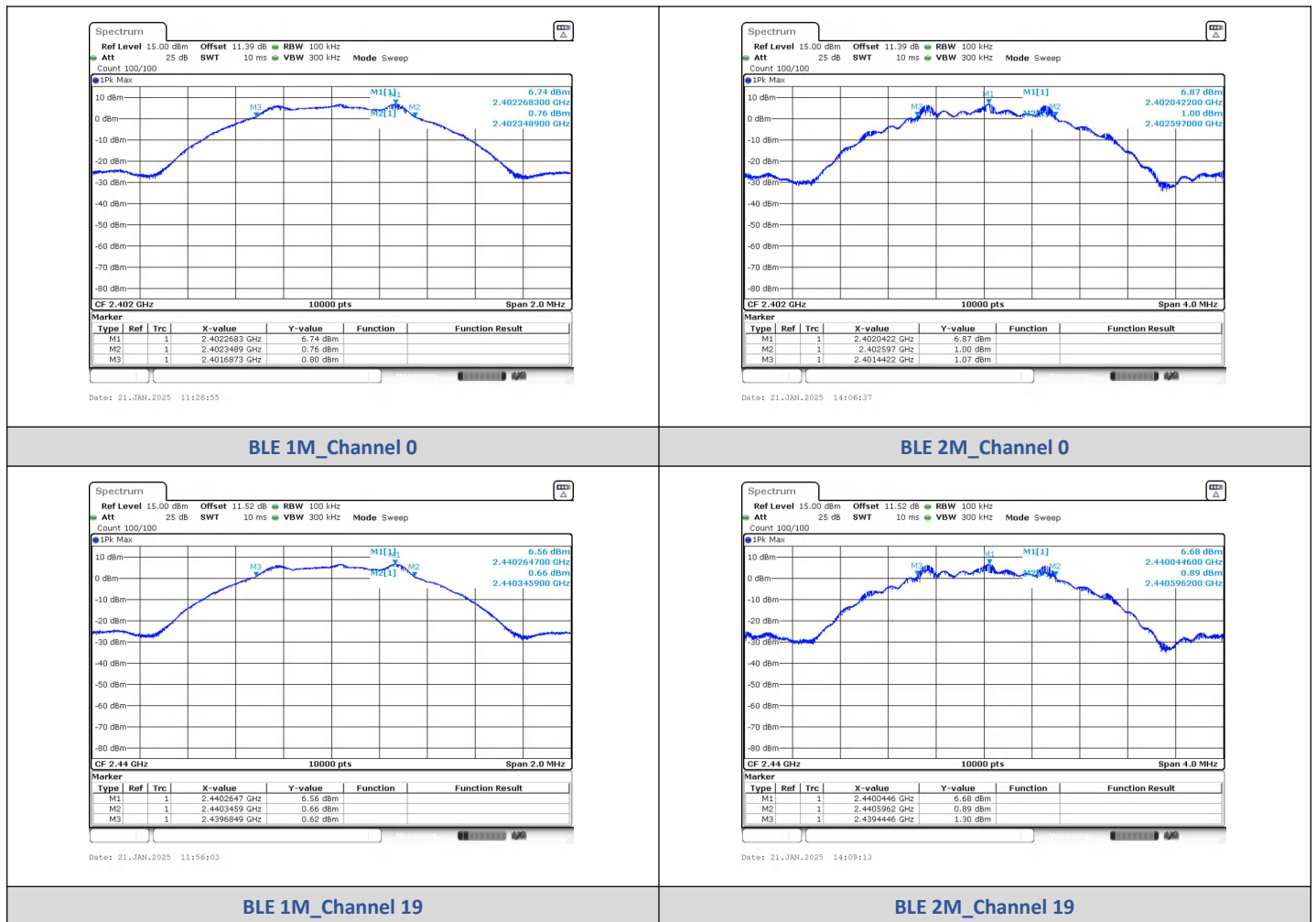
Peak Output Power
BLE 2M_Channel 39

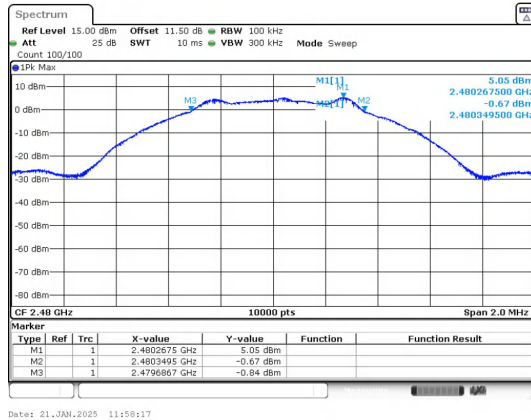
4) 6dB Bandwidth

Test Result

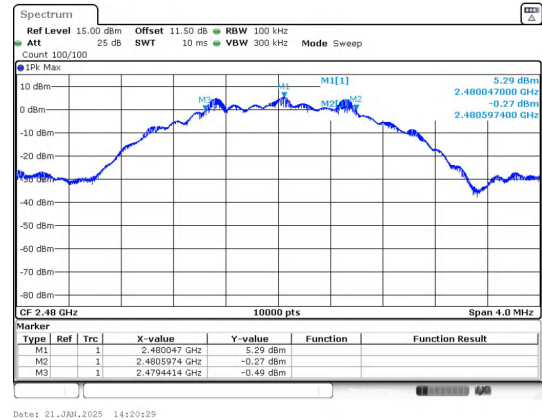
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6700		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.160		PASS
	19	2440	1.160		PASS
	39	2480	1.160		PASS

Test Graphs





BLE 1M_Channel 39



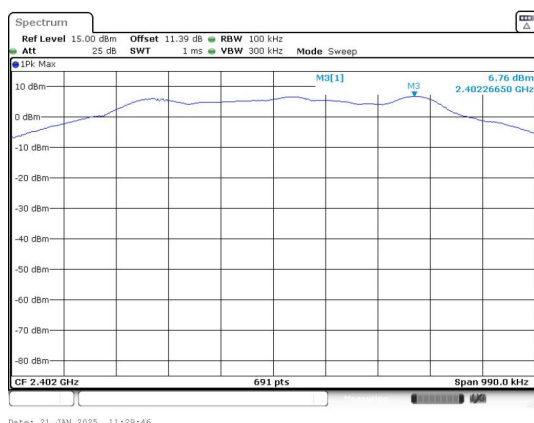
BLE 2M_Channel 39

5) Conducted Out Of Band Emission

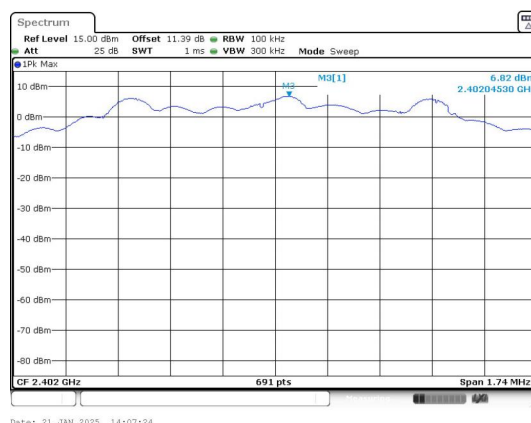
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-39.050	-13.24	-25.810	PASS
		7205.13	-41.105	-13.24	-27.865	PASS
	19	9753.73	-40.997	-13.43	-27.567	PASS
		2483.50	-44.650	-14.95	-29.700	PASS
		9914.37	-38.058	-14.95	-23.108	PASS
BLE 2M	0	2400.00	-26.530	-13.18	-13.350	PASS
		9602.25	-41.894	-13.18	-28.714	PASS
	19	9753.73	-41.364	-13.29	-28.074	PASS
		2483.50	-49.960	-14.69	-35.270	PASS
		9914.37	-37.829	-14.69	-23.139	PASS

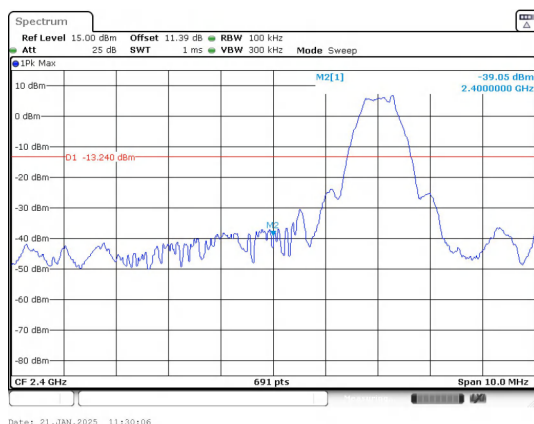
Test Graphs



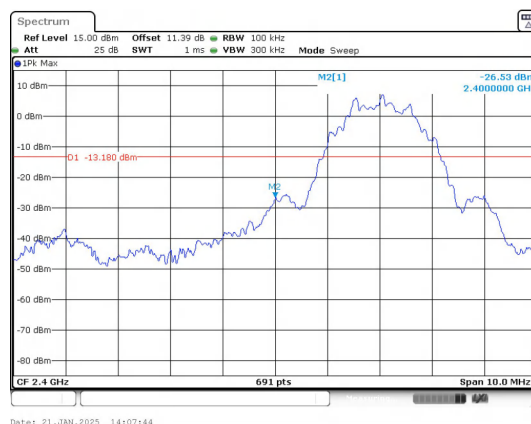
In-Band Reference Level
BLE 1M_Channel 0



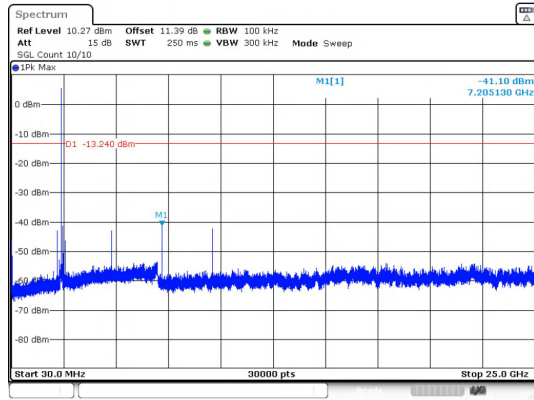
In-Band Reference Level
BLE 2M_Channel 0



Out Of Band Emission
BLE 1M_Channel 0

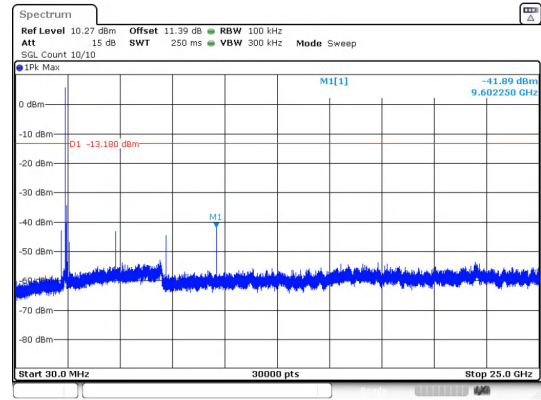


Out Of Band Emission
BLE 2M_Channel 0



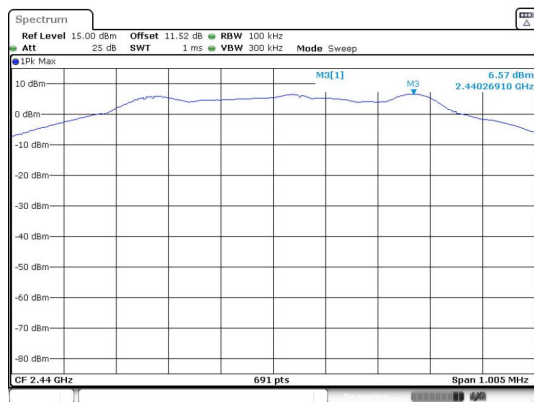
Date: 21.JAN.2025 11:30:28

30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



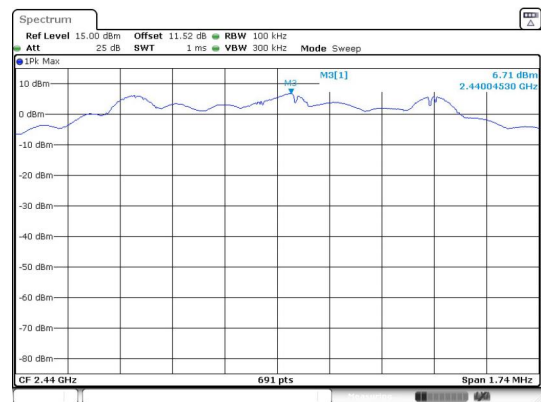
Date: 21.JAN.2025 14:08:06

30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



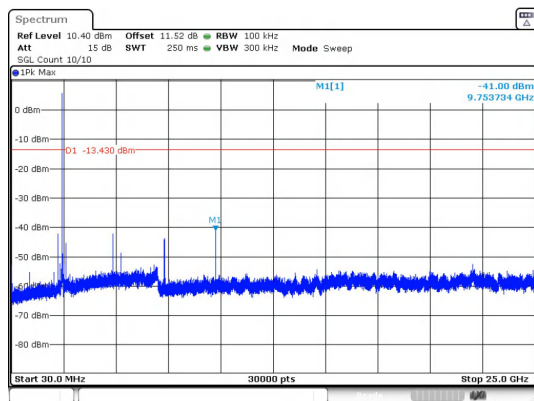
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In-Band Reference Level
BLE 1M_Channel 19



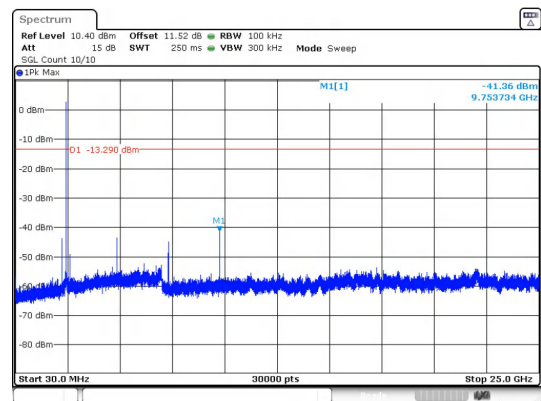
Date: 21.JAN.2025 14:10:01

In-Band Reference Level
BLE 2M_Channel 19



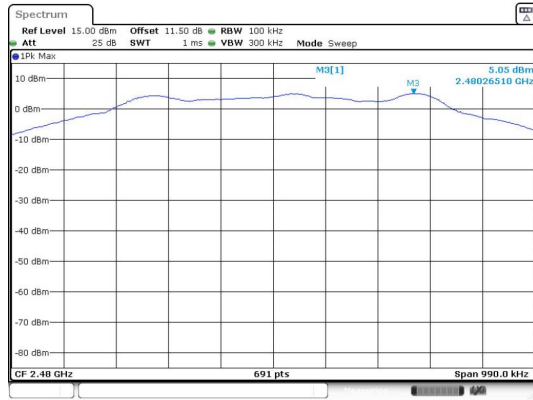
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30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19

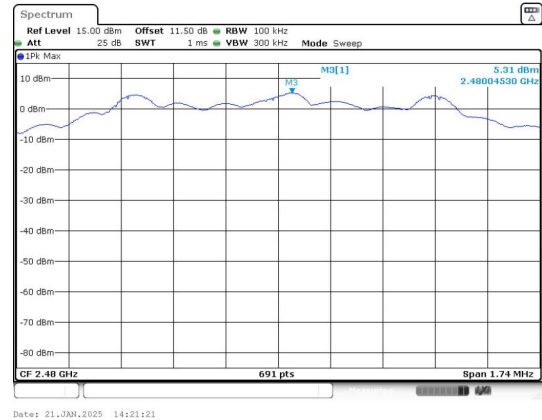


Date: 21.JAN.2025 14:10:25

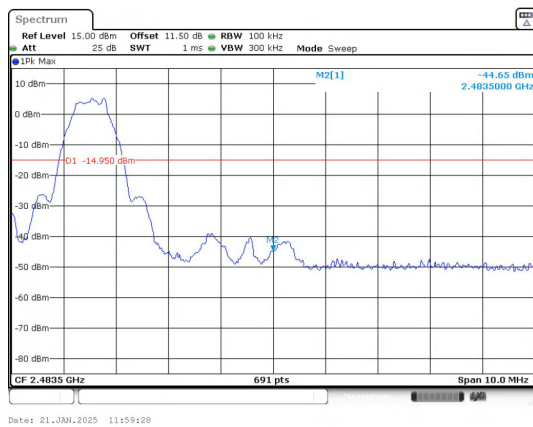
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



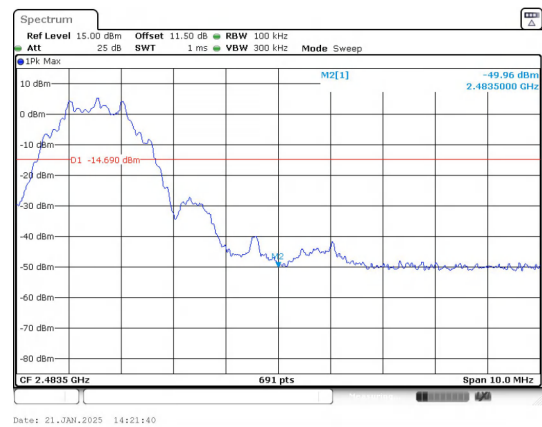
In-Band Reference Level
BLE 1M_Channel 39



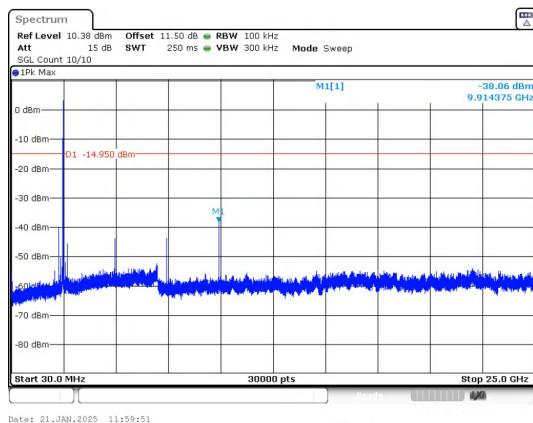
In-Band Reference Level
BLE 2M_Channel 39



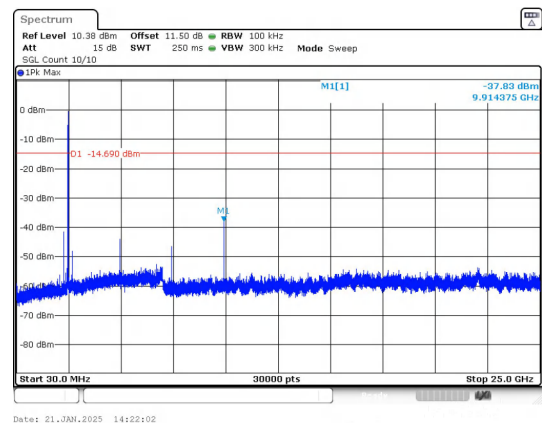
Out Of Band Emission
BLE 1M_Channel 39



Out Of Band Emission
BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39

-----End of the report-----