

Appendix Report

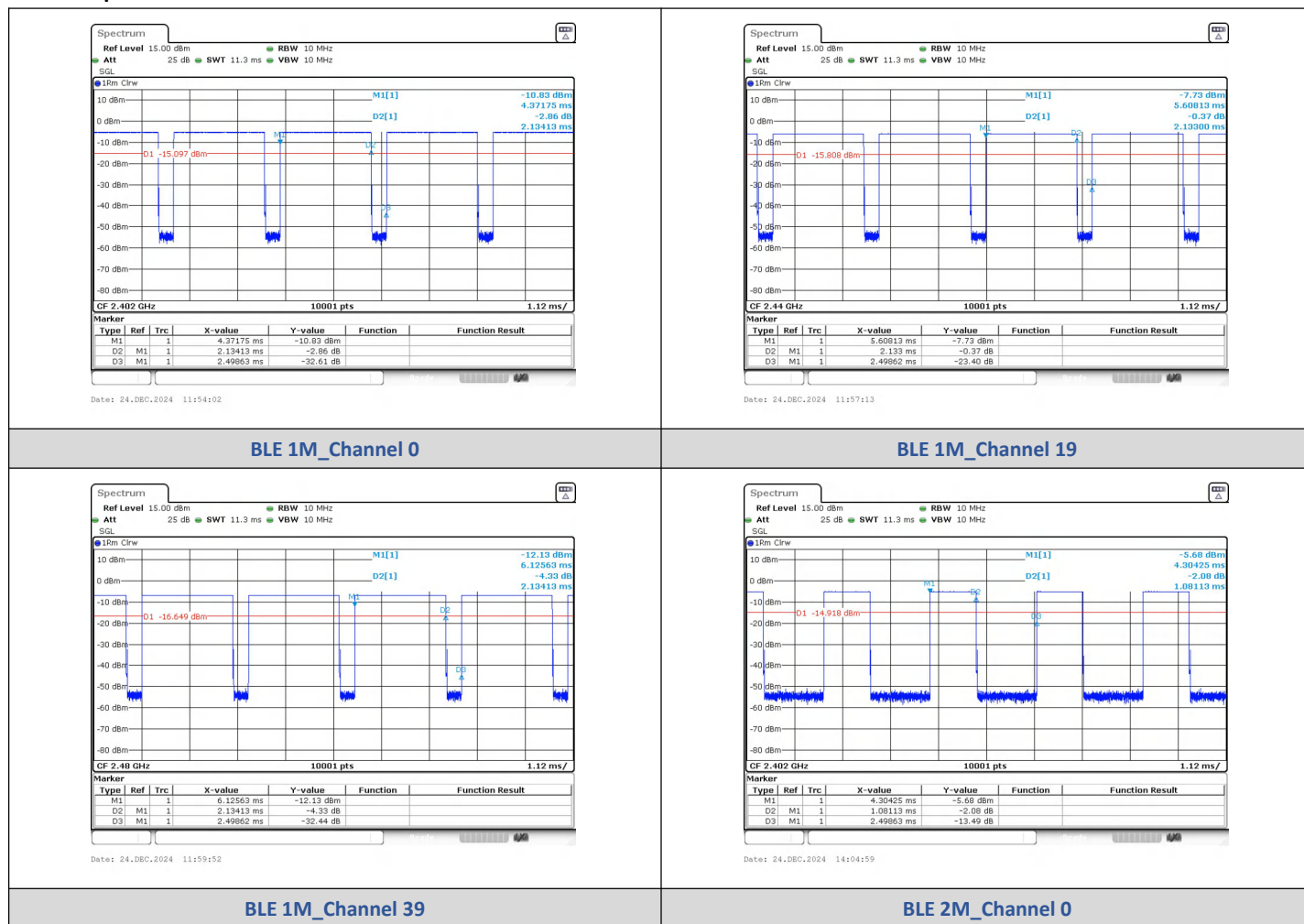
Report No.:	CISRR24122318904
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

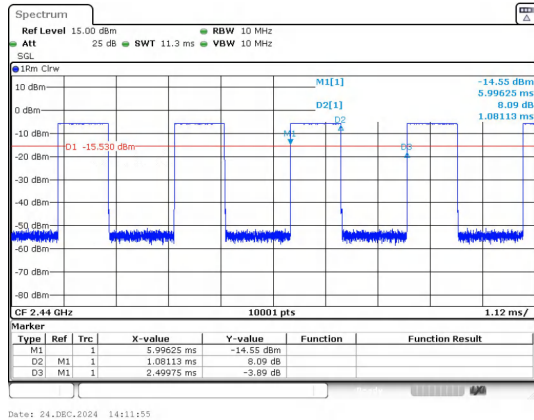
1) Duty Cycle

Test Result

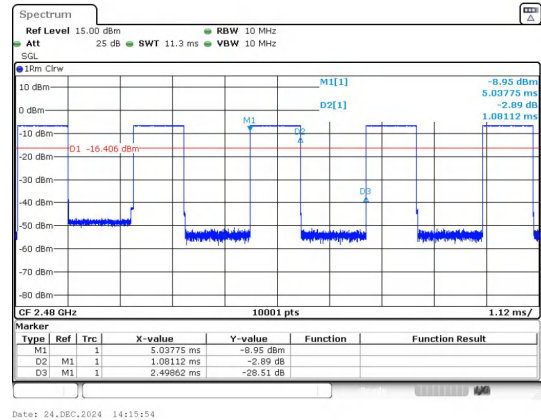
Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE 1M	0	2.134	2.499	85.41	0.8541	0.6849	0.4686
	19	2.133	2.499	85.37	0.8537	0.6869	0.4688
	39	2.134	2.499	85.41	0.8541	0.6849	0.4686
BLE 2M	0	1.081	2.499	43.27	0.4327	3.6381	0.9251
	19	1.081	2.500	43.25	0.4325	3.6401	0.9251
	39	1.081	2.499	43.27	0.4327	3.6381	0.9251

Test Graphs





BLE 2M_Channel 19



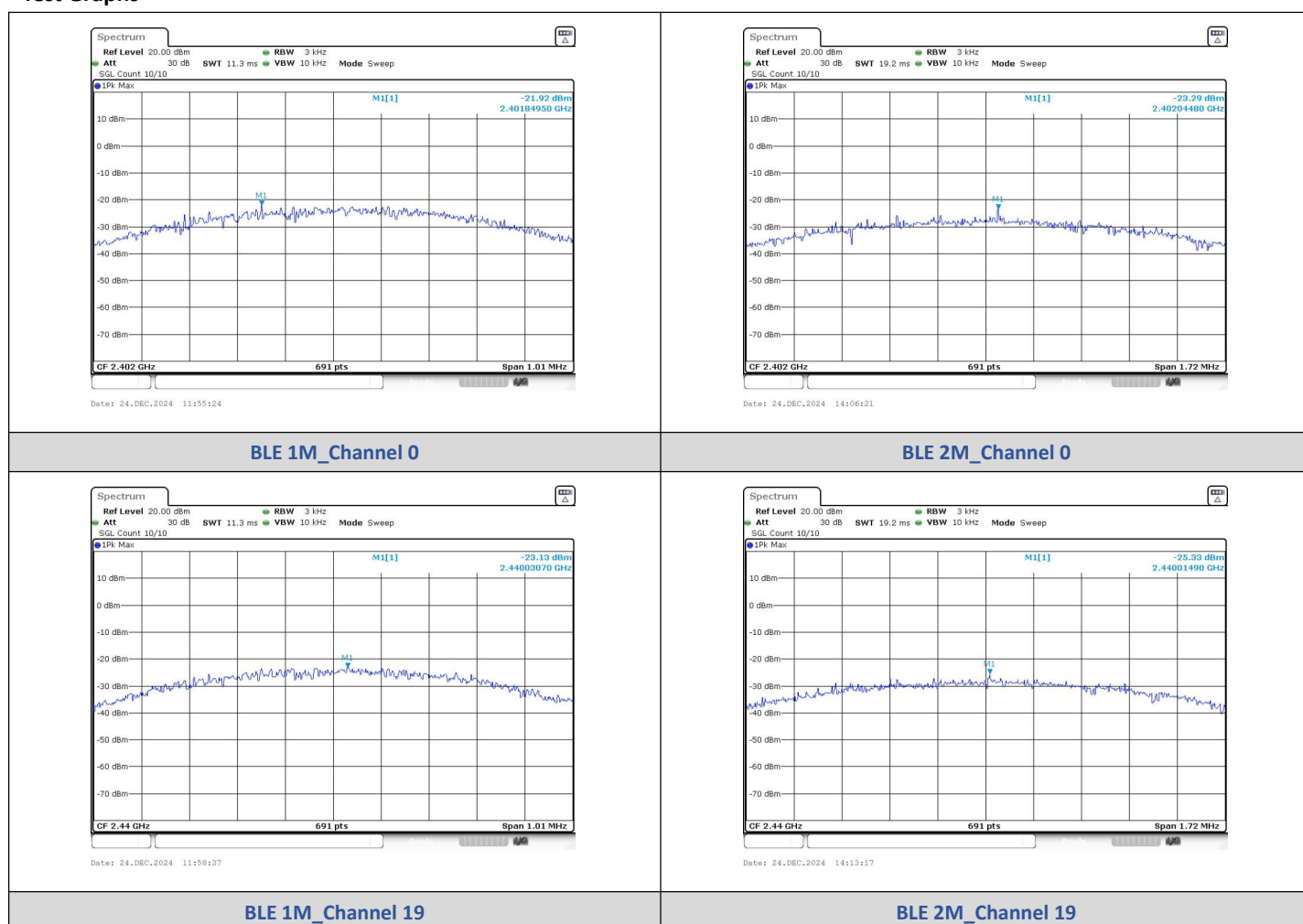
BLE 2M_Channel 39

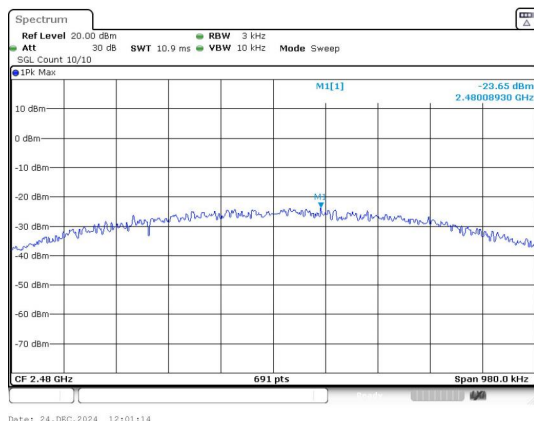
2) Power Spectral Density

Test Result

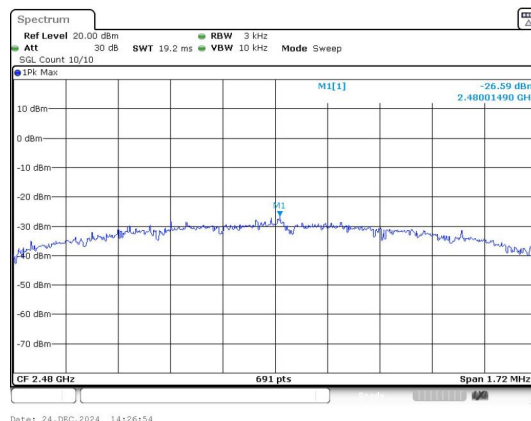
Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-21.920	≤8	PASS
BLE 1M	19	-23.130	≤8	PASS
BLE 1M	39	-23.650	≤8	PASS
BLE 2M	0	-23.290	≤8	PASS
BLE 2M	19	-25.330	≤8	PASS
BLE 2M	39	-26.590	≤8	PASS

Test Graphs





BLE 1M_Channel 39



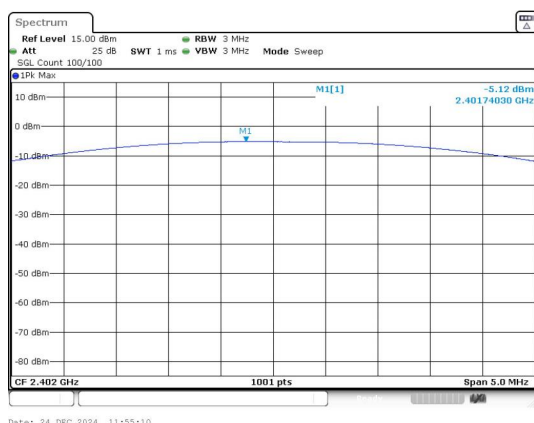
BLE 2M_Channel 39

3) Conducted Output Power

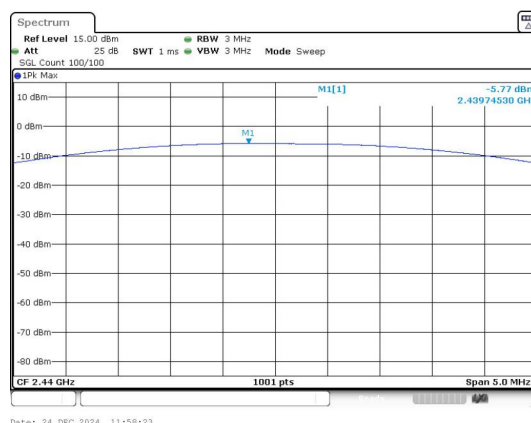
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	-5.12	0.31	≤30	PASS
	19	-5.77	0.26	≤30	PASS
	39	-6.64	0.22	≤30	PASS
BLE 2M	0	-4.92	0.32	≤30	PASS
	19	-5.51	0.28	≤30	PASS
	39	-6.31	0.23	≤30	PASS

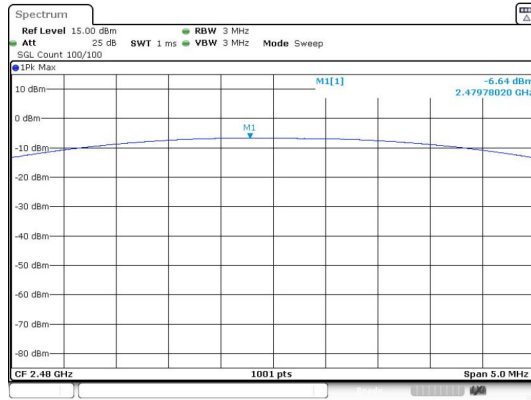
Test Graphs



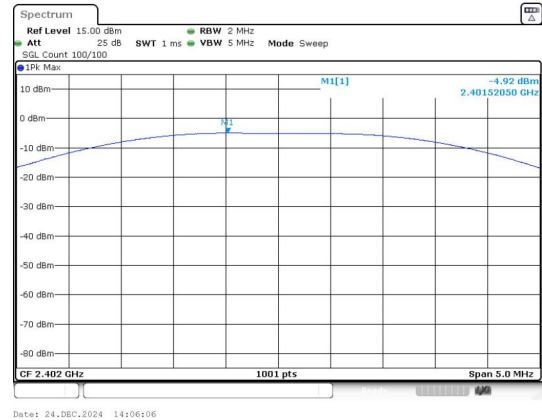
Peak Output Power
BLE 1M_Channel 0



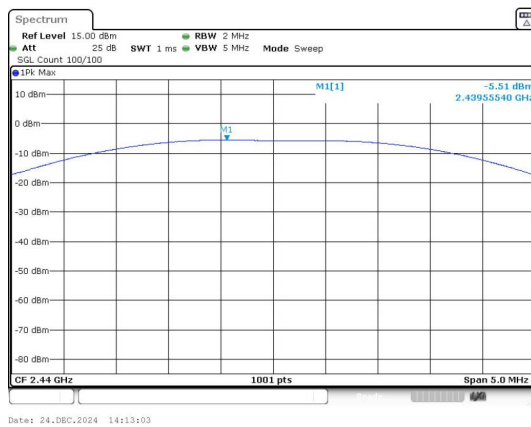
Peak Output Power
BLE 1M_Channel 19



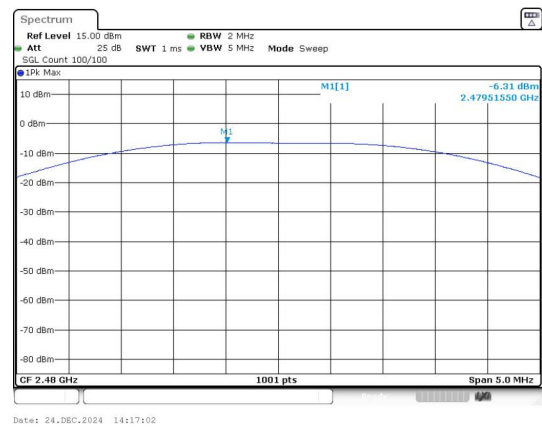
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



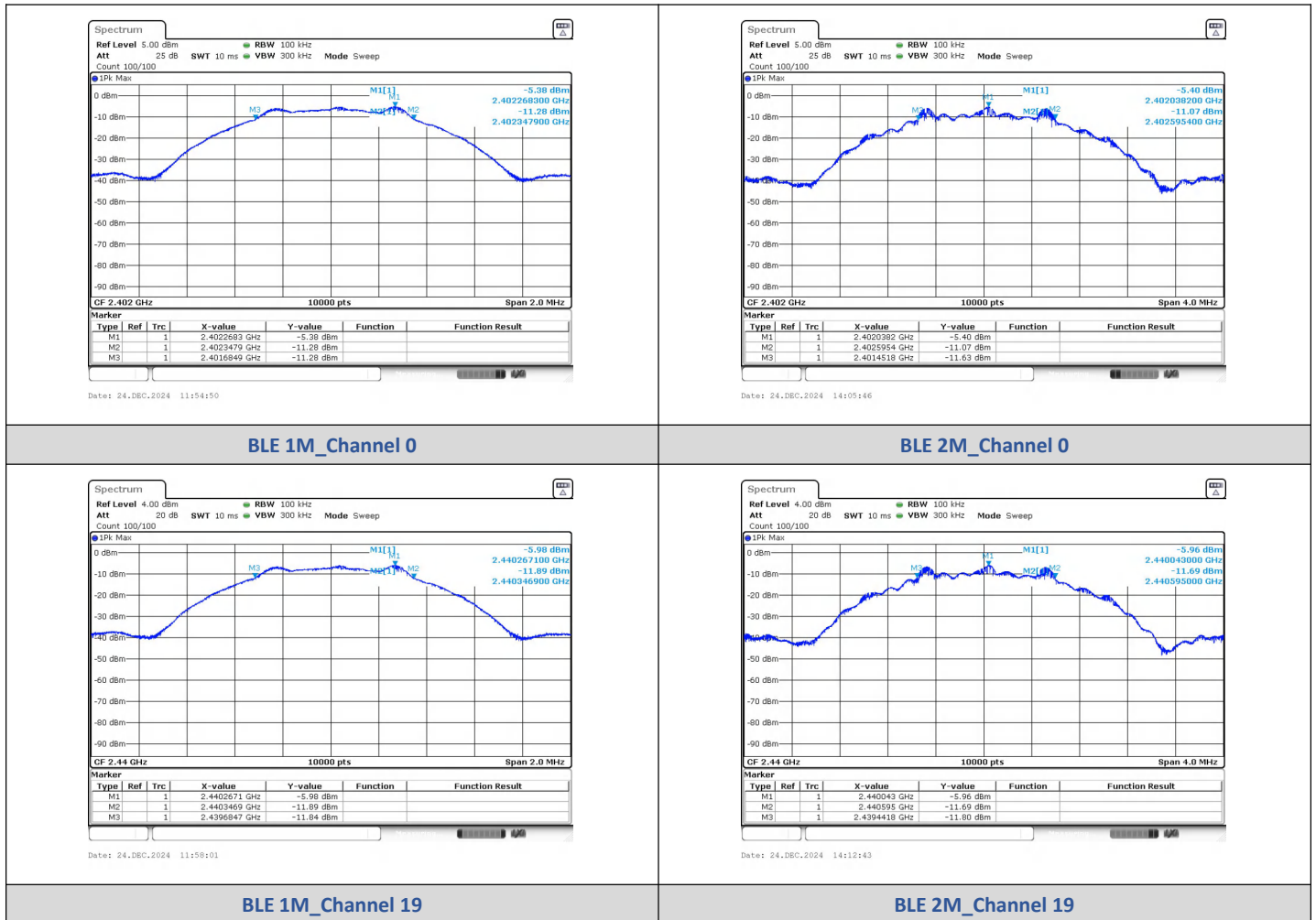
Peak Output Power
BLE 2M_Channel 39

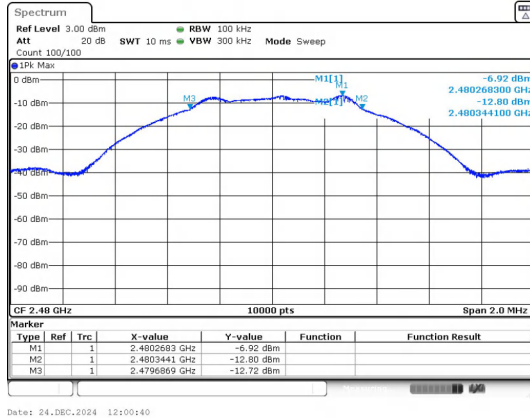
4) 6dB Bandwidth

Test Result

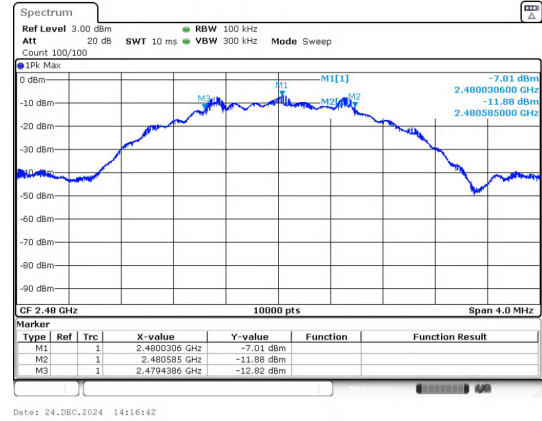
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6700	≥0.5	PASS
	19	2440	0.6700		PASS
	39	2480	0.6500		PASS
BLE 2M	0	2402	1.150		PASS
	19	2440	1.150		PASS
	39	2480	1.150		PASS

Test Graphs





BLE 1M_Channel 39



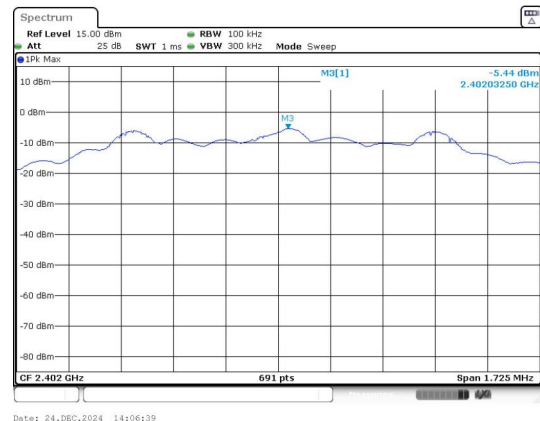
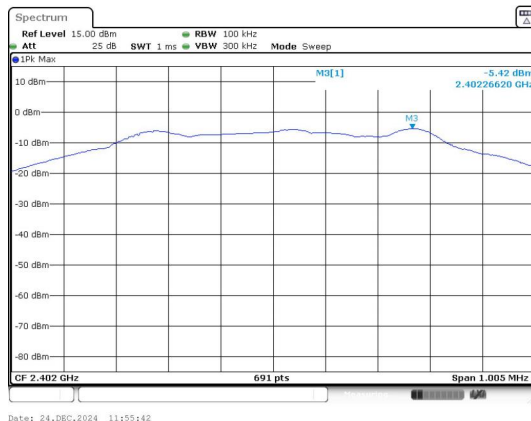
BLE 2M_Channel 39

5) Conducted Out Of Band Emission

Test Result

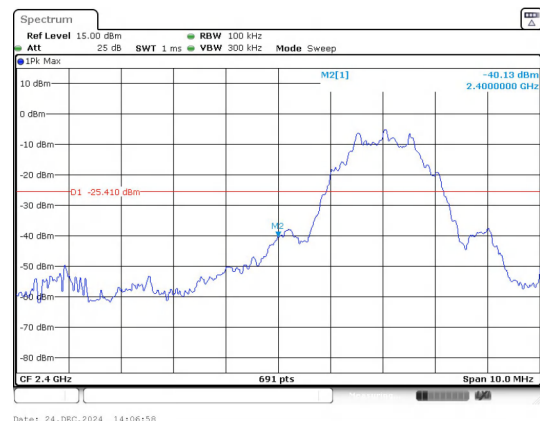
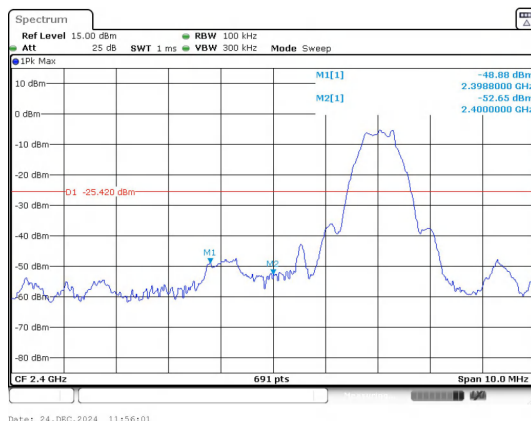
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2398.80	-48.882	-25.42	-23.462	PASS
		2400.00	-52.650	-25.42	-27.230	PASS
		6983.70	-45.426	-25.42	-20.006	PASS
	19	6966.25	-44.528	-26.05	-18.478	PASS
		2483.50	-55.600	-26.99	-28.610	PASS
		6960.42	-44.365	-26.99	-17.375	PASS
BLE 2M	0	2400.00	-40.130	-25.41	-14.720	PASS
		6920.47	-43.376	-25.41	-17.966	PASS
	19	6284.57	-43.869	-26.04	-17.829	PASS
		2483.50	-60.490	-26.91	-33.580	PASS
		6922.97	-44.716	-26.91	-17.806	PASS

Test Graphs



In-Band Reference Level
BLE 1M_Channel 0

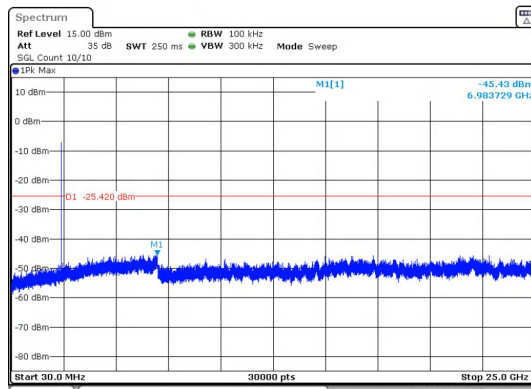
In-Band Reference Level
BLE 2M_Channel 0



Out Of Band Emission

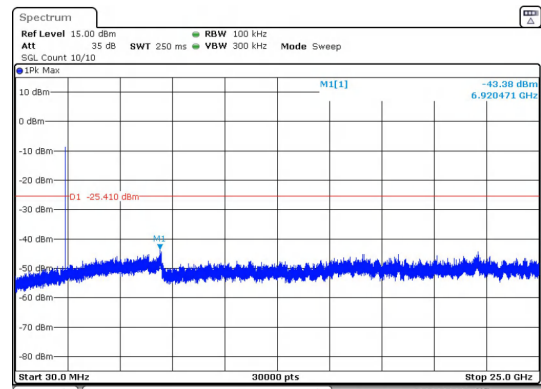
Out Of Band Emission

BLE 1M_Channel 0



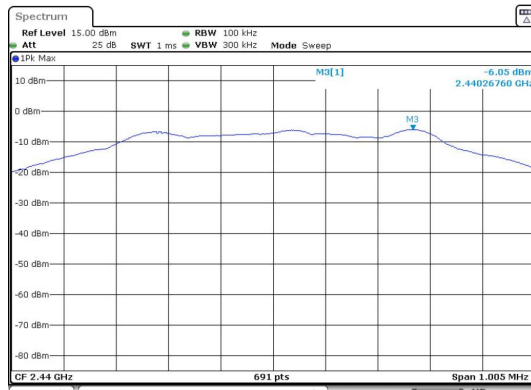
Date: 24.DEC.2024 11:56:24

BLE 2M_Channel 0



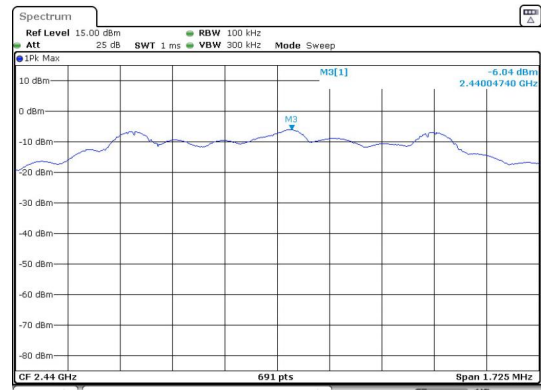
Date: 24.DEC.2024 14:07:21

30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



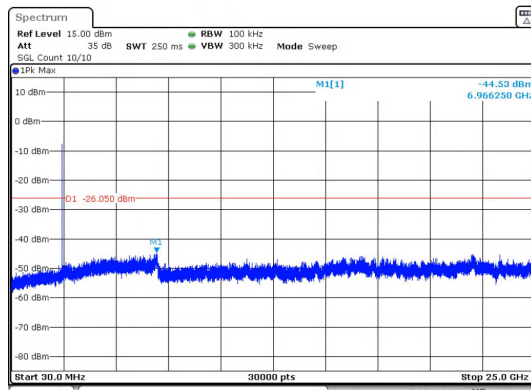
Date: 24.DEC.2024 11:58:55

30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



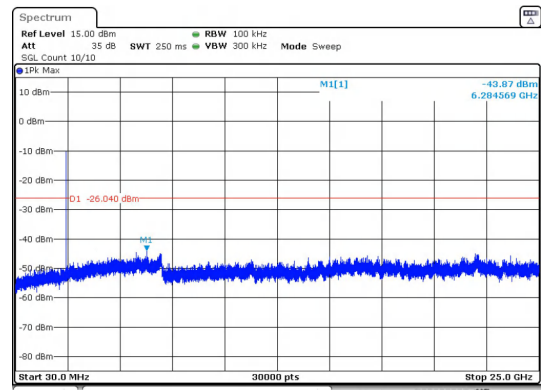
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In-Band Reference Level
BLE 1M_Channel 19



Date: 24.DEC.2024 11:59:20

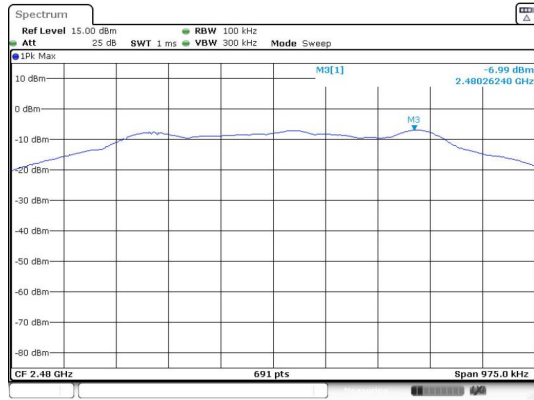
In-Band Reference Level
BLE 2M_Channel 19



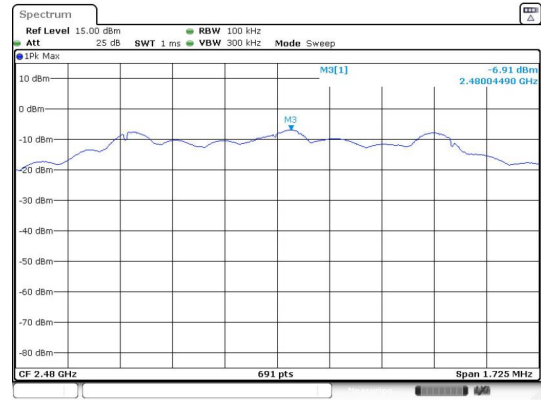
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30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19

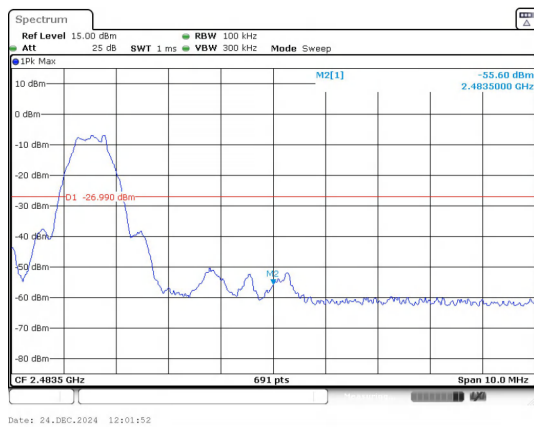
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



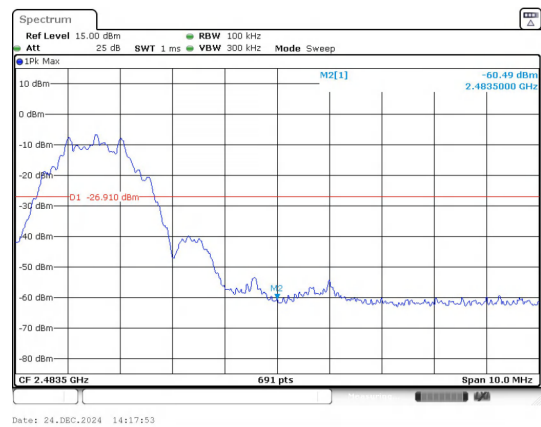
**In-Band Reference Level
BLE 1M_Channel 39**



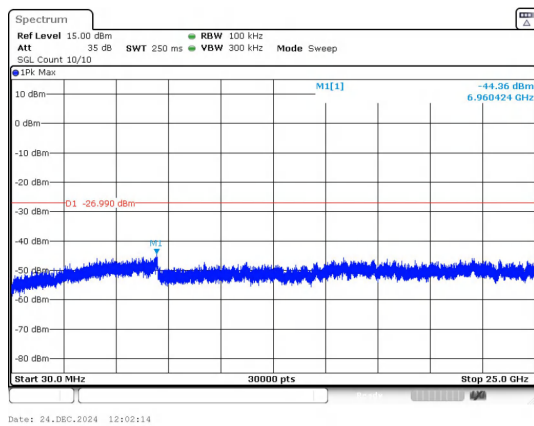
**In-Band Reference Level
BLE 2M_Channel 39**



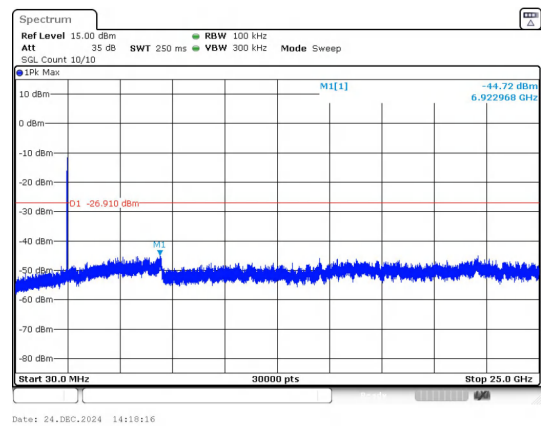
**Out Of Band Emission
BLE 1M_Channel 39**



**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-----