Appendix B

Report No.:	CISRR24060403902
FCC ID:	2BGWM-DUPODS-S108
Product Name:	Xiaodu Smart open headphones
Model No.:	DuPods S108
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

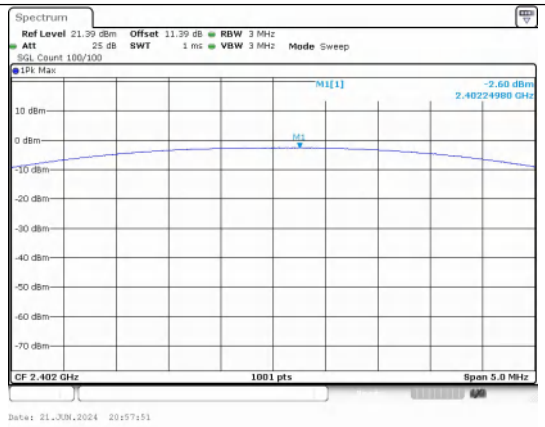
Conducted Output Power

Left

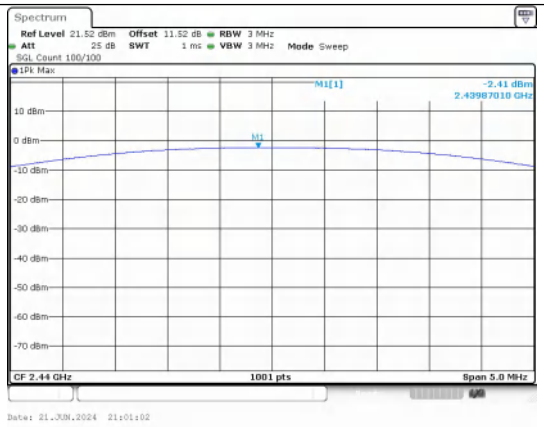
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	-2.60	0.55	≤30	PASS
	19	-2.41	0.57	≤30	PASS
	39	-1.63	0.69	≤30	PASS
BLE 2M	0	-2.66	0.54	≤30	PASS
	19	-2.40	0.58	≤30	PASS
	39	-1.63	0.69	≤30	PASS

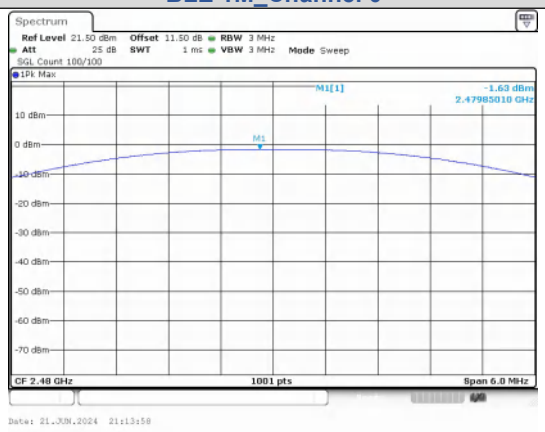
Test Graphs



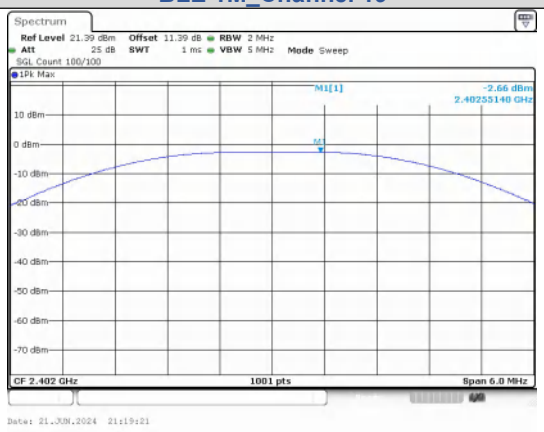
Peak Output Power
BLE 1M_Channel 0



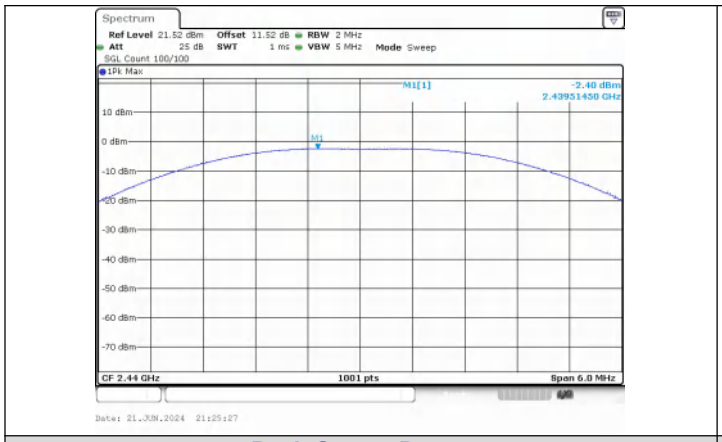
Peak Output Power
BLE 1M_Channel 19



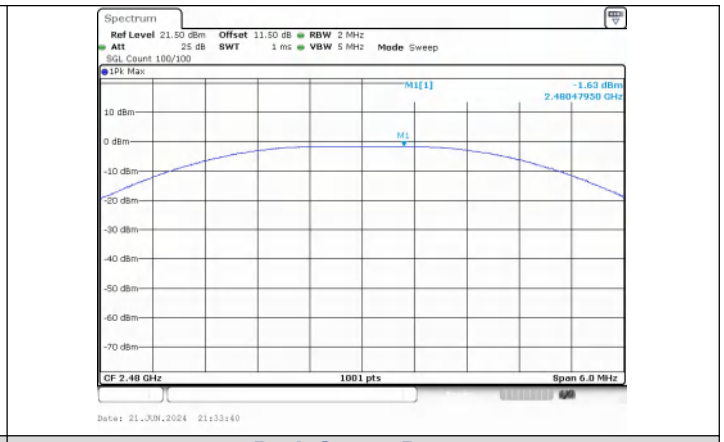
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



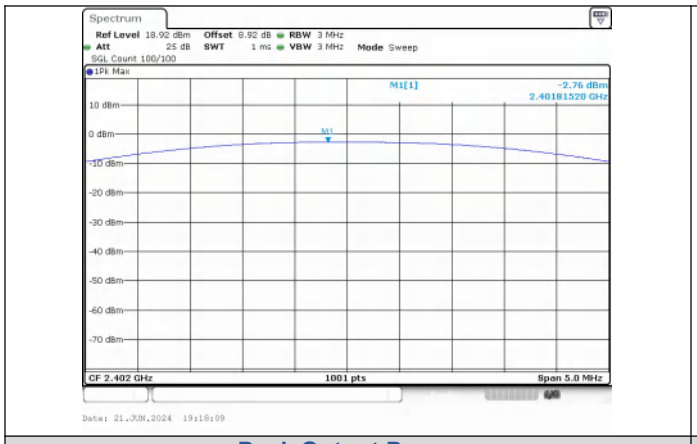
Peak Output Power
BLE 2M_Channel 39

Right

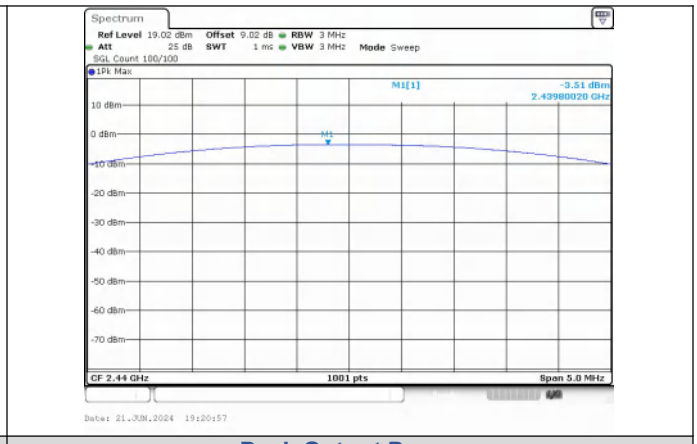
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	-2.76	0.53	≤30	PASS
	19	-3.51	0.45	≤30	PASS
	39	-2.80	0.53	≤30	PASS
BLE 2M	0	-2.57	0.55	≤30	PASS
	19	-3.25	0.47	≤30	PASS
	39	-2.52	0.56	≤30	PASS

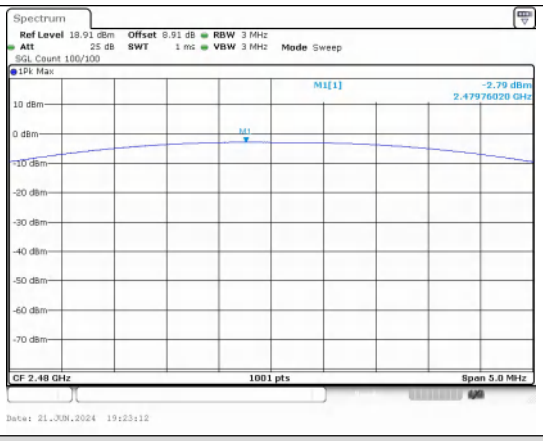
Test Graphs



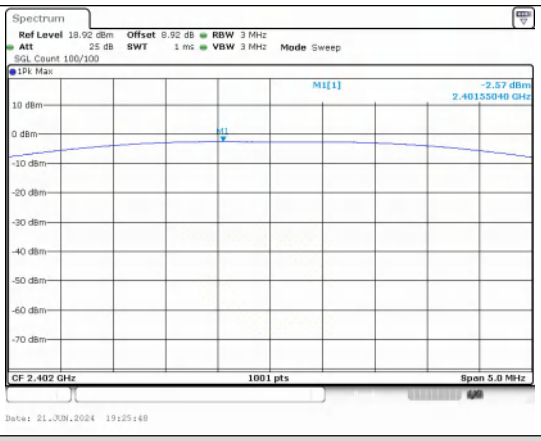
Peak Output Power
BLE 1M_Channel 0



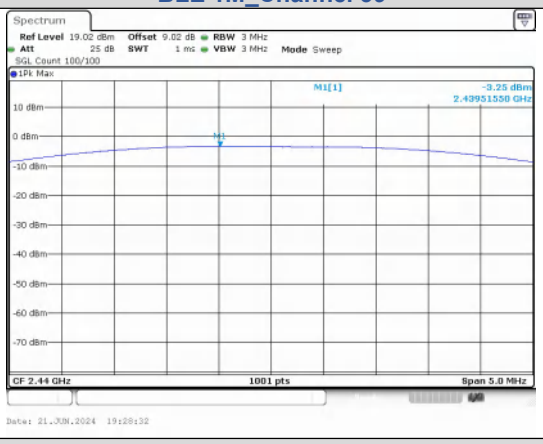
Peak Output Power
BLE 1M_Channel 19



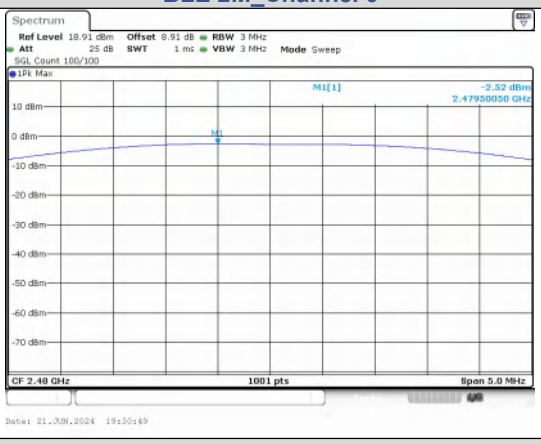
Peak Output Power
BLE 1M_Channel 39



Peak Output Power
BLE 2M_Channel 0



Peak Output Power
BLE 2M_Channel 19



Peak Output Power
BLE 2M_Channel 39

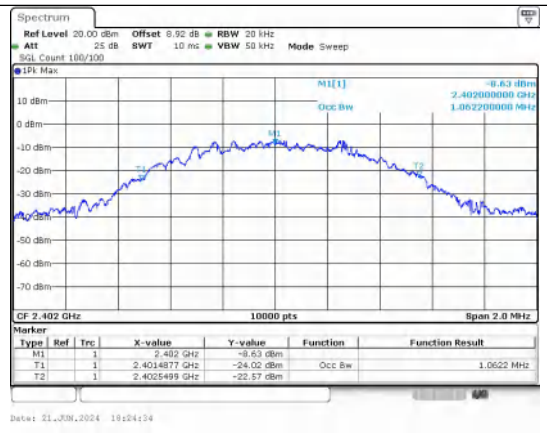
99% Bandwidth

Left

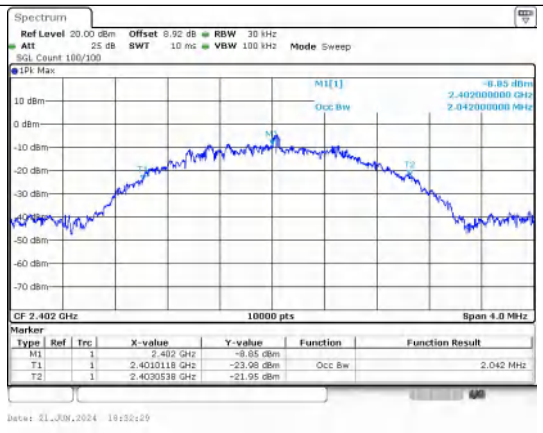
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0622
BLE 1M	19	2440	1.0566
BLE 1M	39	2480	1.0484
BLE 2M	0	2402	2.0420
BLE 2M	19	2440	2.0572
BLE 2M	39	2480	2.0600

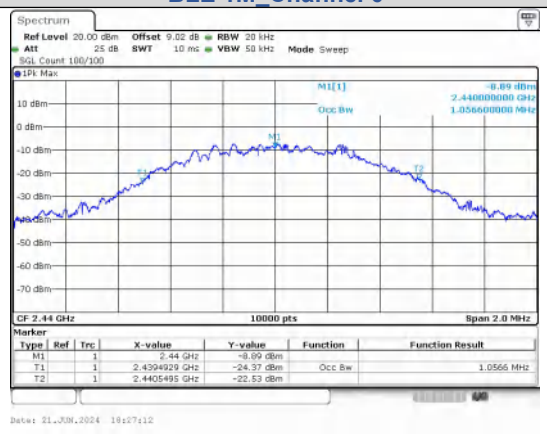
Test Graphs



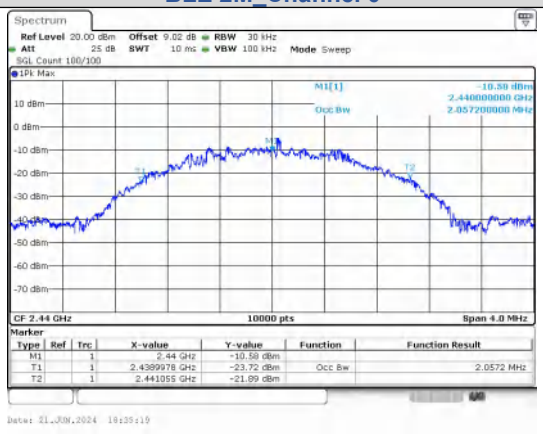
BLE 1M_Channel 0



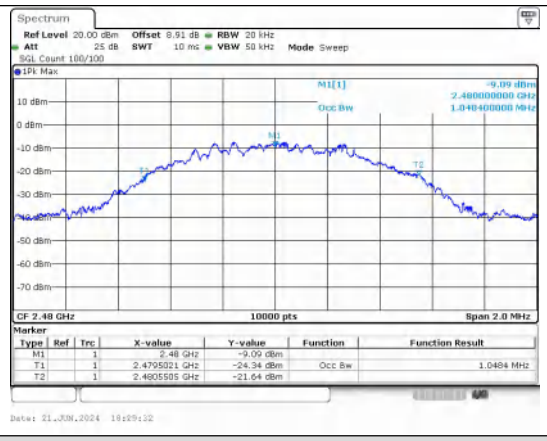
BLE 2M_Channel 0



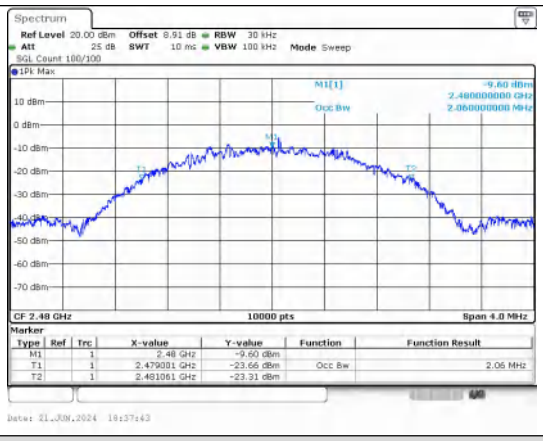
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



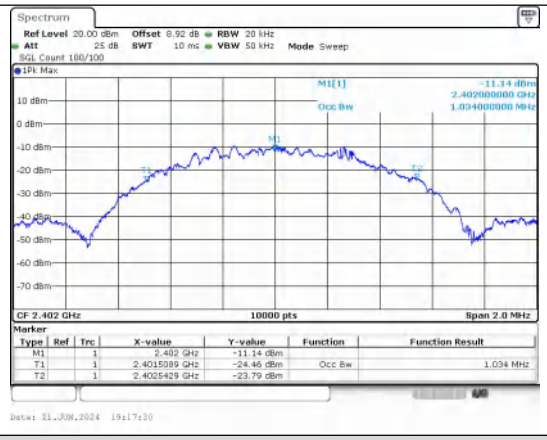
BLE 2M_Channel 39

Right

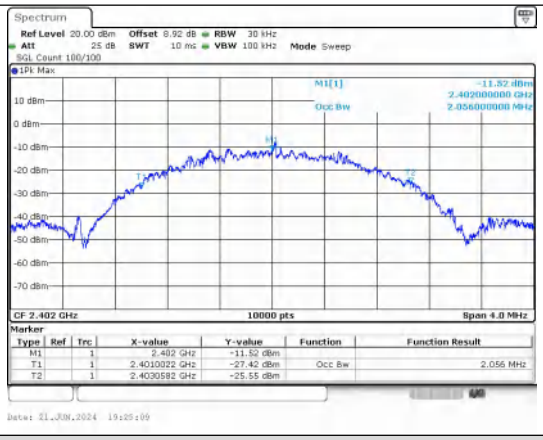
Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0340
BLE 1M	19	2440	1.0302
BLE 1M	39	2480	1.0356
BLE 2M	0	2402	2.0560
BLE 2M	19	2440	2.0576
BLE 2M	39	2480	2.0492

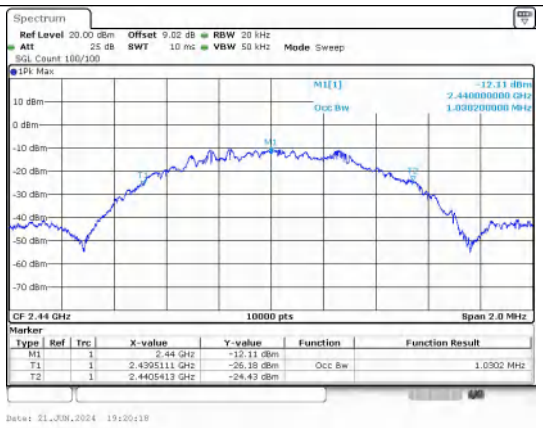
Test Graphs



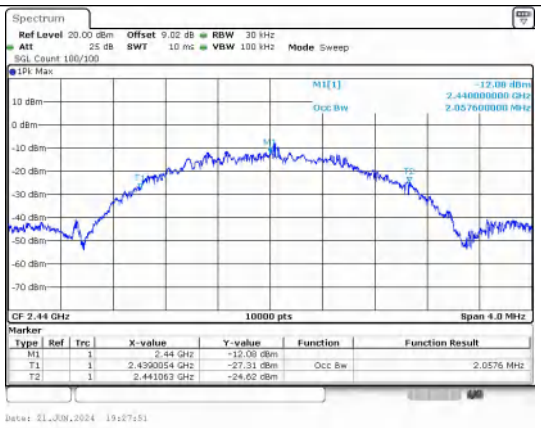
BLE 1M_Channel 0



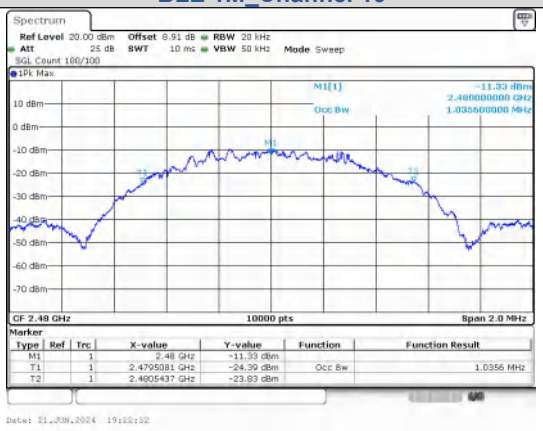
BLE 2M_Channel 0



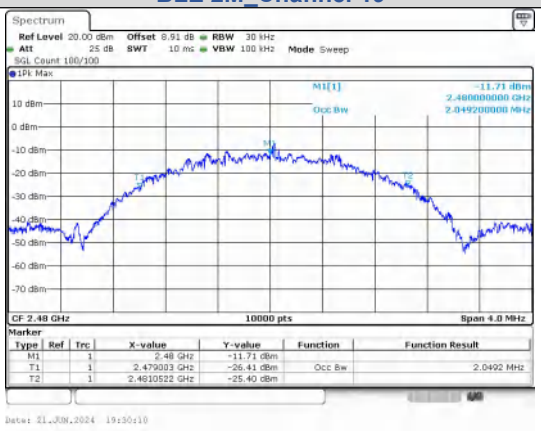
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



BLE 2M_Channel 39

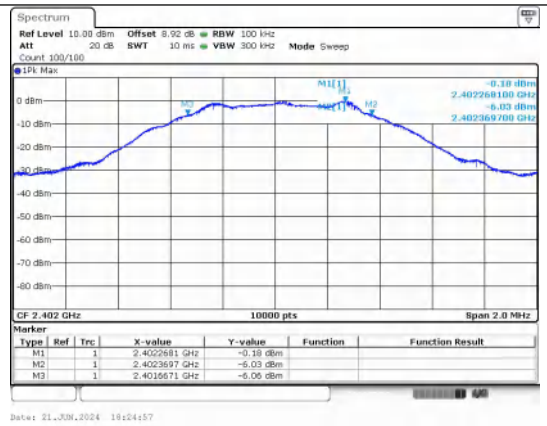
6dB Bandwidth

Left

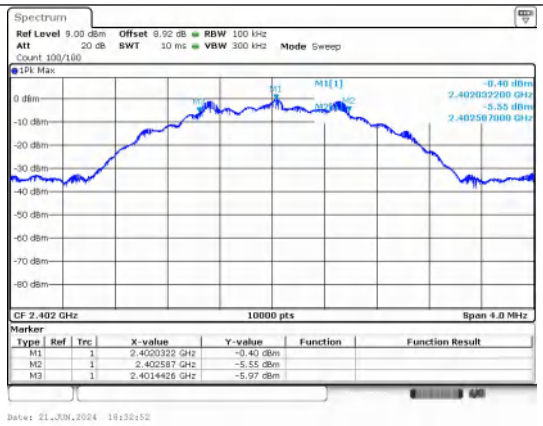
Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.7000	≥0.5	PASS
	19	2440	0.6900		PASS
	39	2480	0.6700		PASS
BLE 2M	0	2402	1.150		PASS
	19	2440	1.150		PASS
	39	2480	1.150		PASS

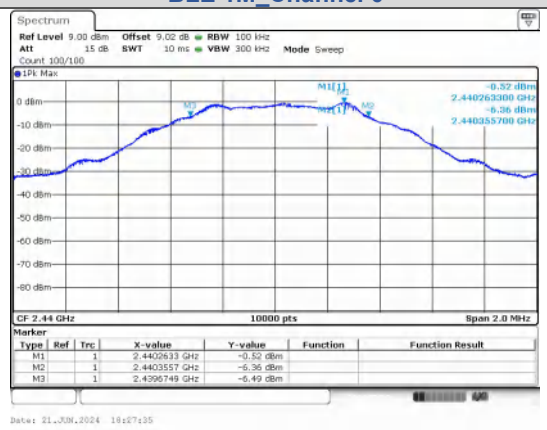
Test Graphs



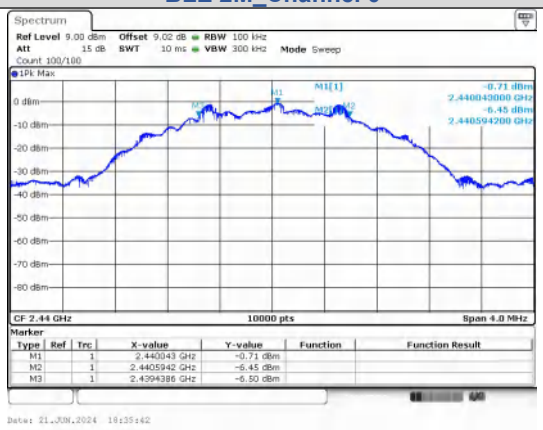
BLE 1M_Channel 0



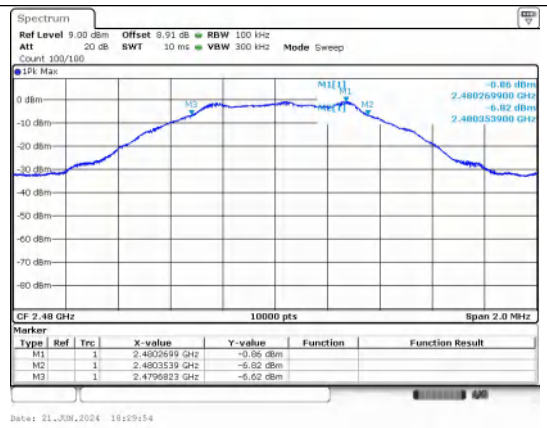
BLE 2M_Channel 0



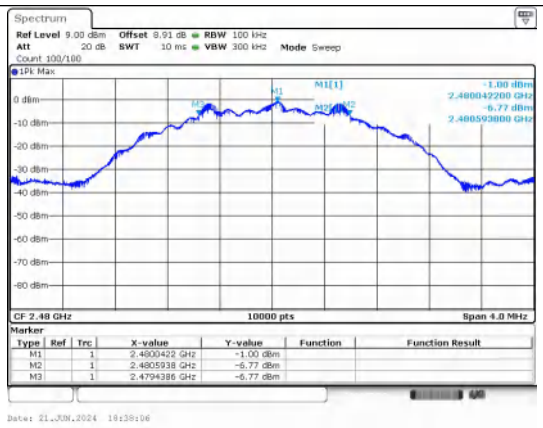
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



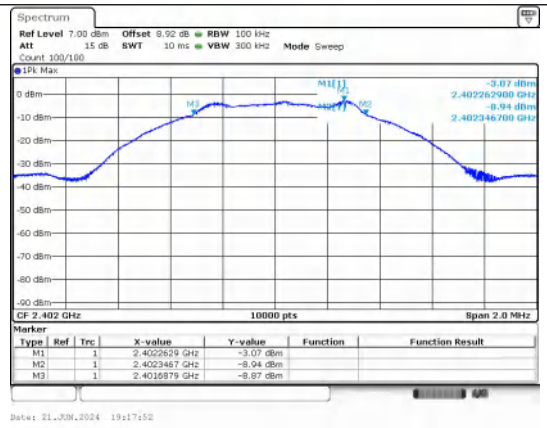
BLE 2M_Channel 39

Right

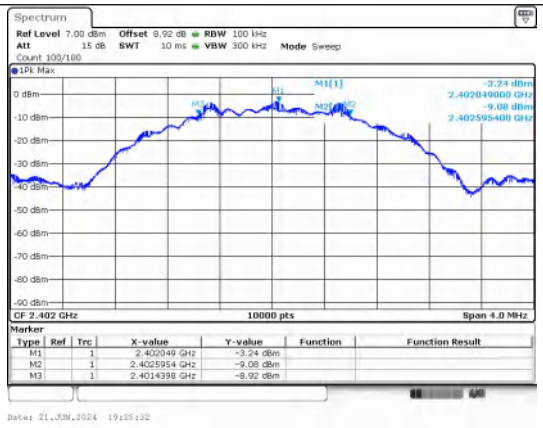
Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6600	≥0.5	PASS
	19	2440	0.6600		PASS
	39	2480	0.6600		PASS
BLE 2M	0	2402	1.160		PASS
	19	2440	1.160		PASS
	39	2480	1.150		PASS

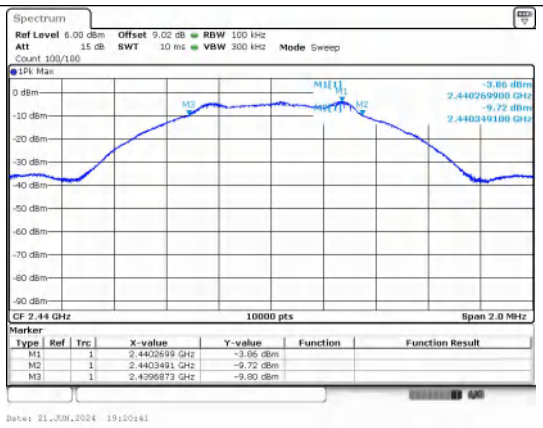
Test Graphs



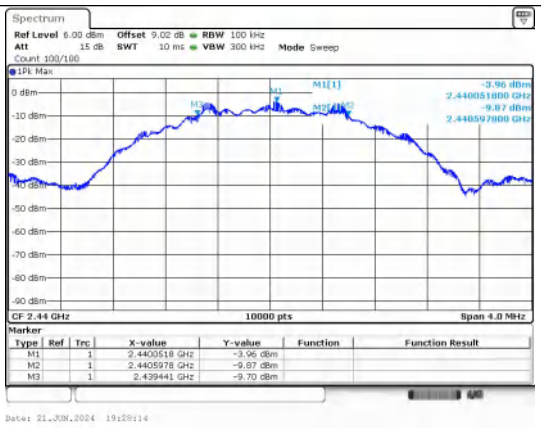
BLE 1M_Channel 0



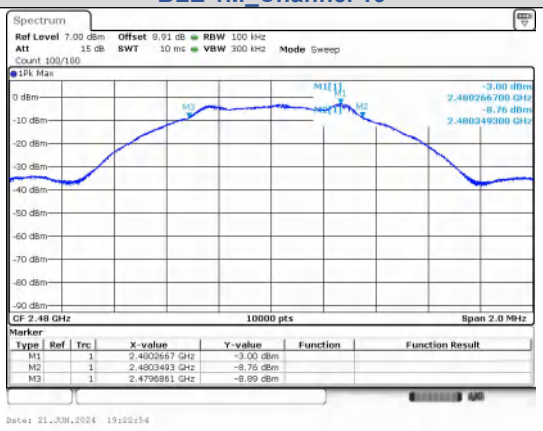
BLE 2M_Channel 0



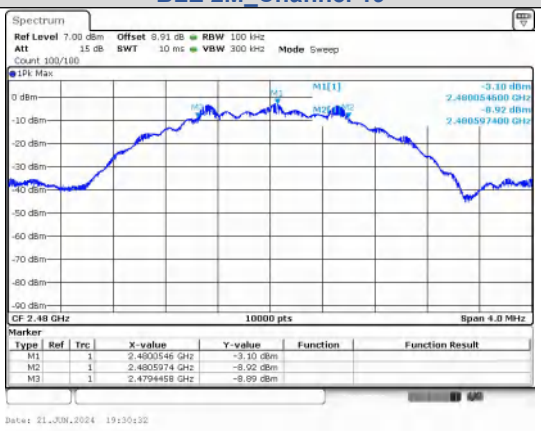
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



BLE 2M_Channel 39

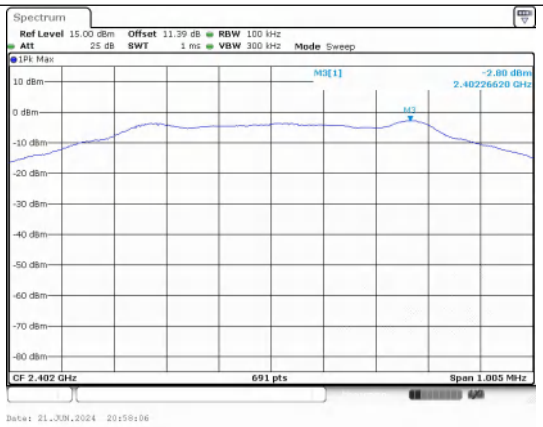
Conducted Out Of Band Emission

Left

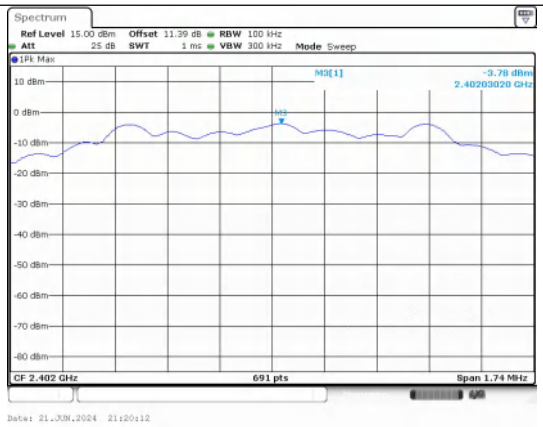
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2395.43	-48.367	-22.8	-25.567	PASS
		2400.00	-48.938	-22.8	-26.138	PASS
		4803.80	-50.998	-22.8	-28.198	PASS
	19	4879.59	-48.997	-22.65	-26.347	PASS
	39	2483.50	-49.359	-21.85	-27.509	PASS
		4959.49	-48.678	-21.85	-26.828	PASS
BLE 2M	0	2400.00	-36.814	-23.78	-13.034	PASS
		9608.08	-51.569	-23.78	-27.789	PASS
	19	4881.25	-50.862	-23.44	-27.422	PASS
	39	2483.50	-50.447	-22.52	-27.927	PASS
		9920.20	-50.796	-22.52	-28.276	PASS

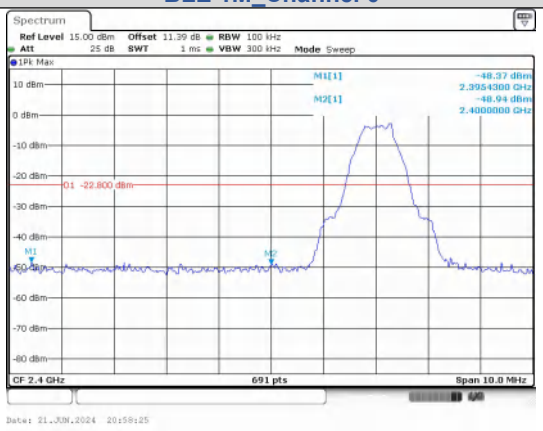
Test Graphs



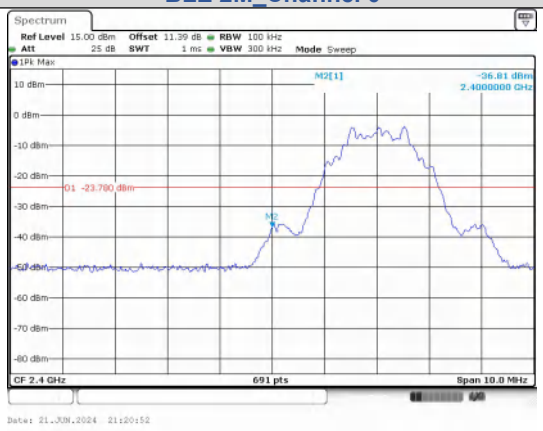
In-Band Reference Level
BLE 1M_Channel 0



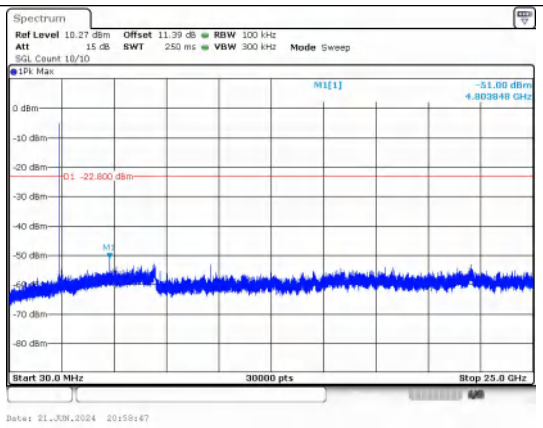
In-Band Reference Level
BLE 2M_Channel 0



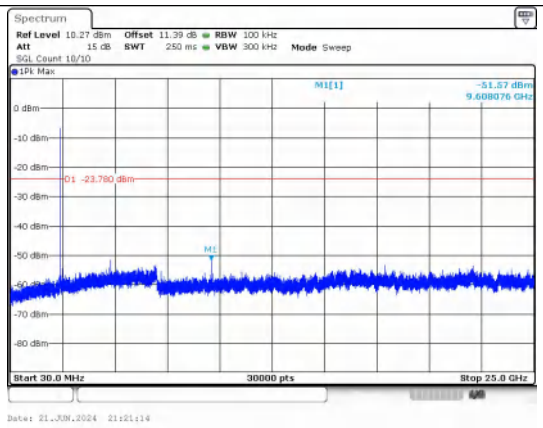
Out Of Band Emission
BLE 1M_Channel 0



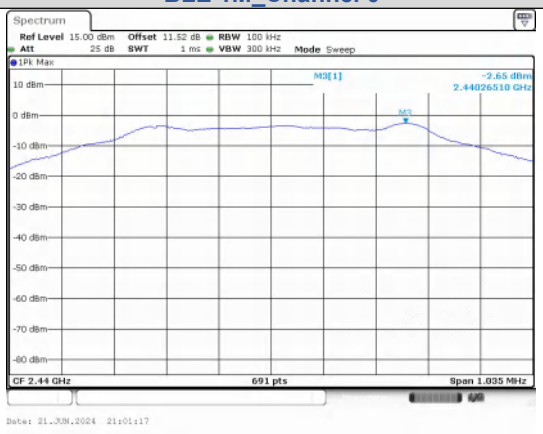
Out Of Band Emission
BLE 2M_Channel 0



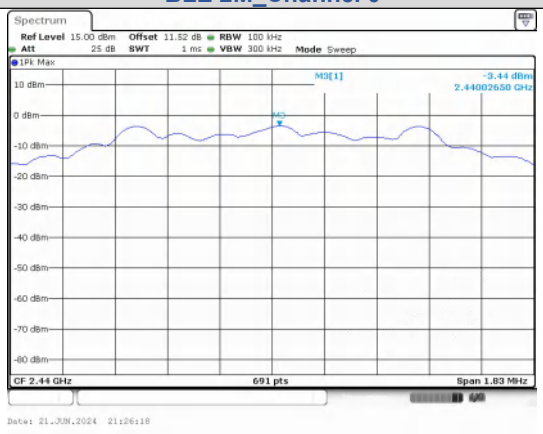
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



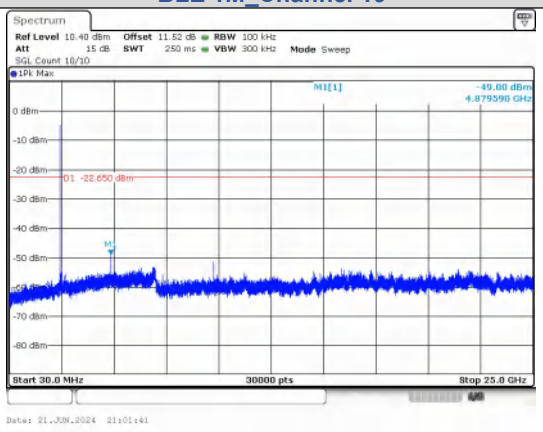
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



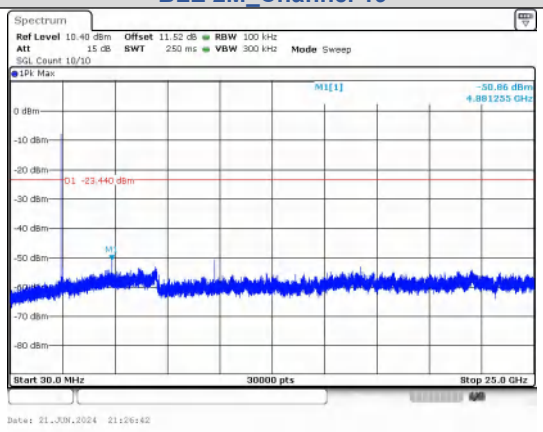
In-Band Reference Level
BLE 1M_Channel 19



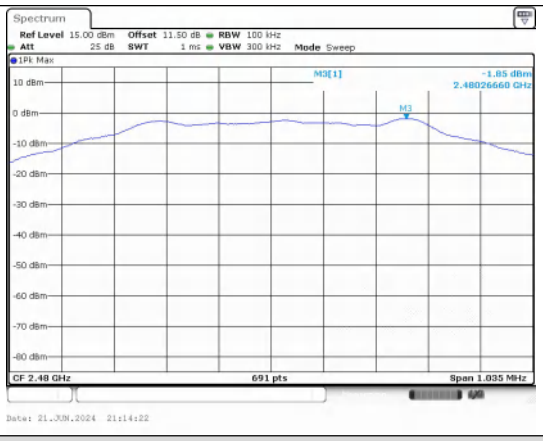
In-Band Reference Level
BLE 2M_Channel 19



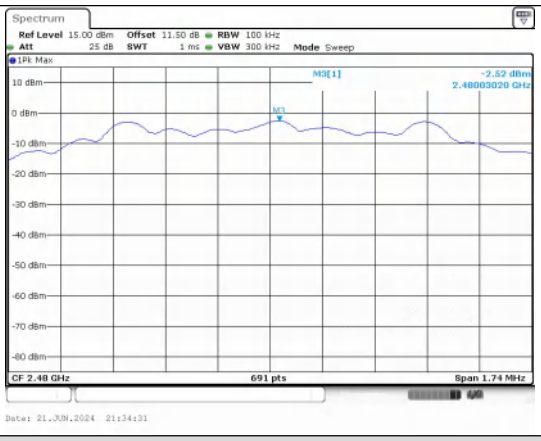
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



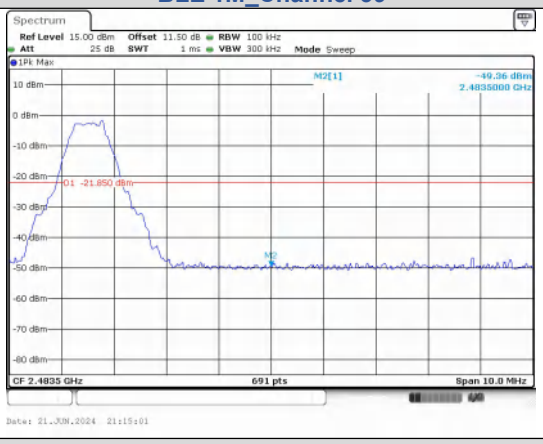
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



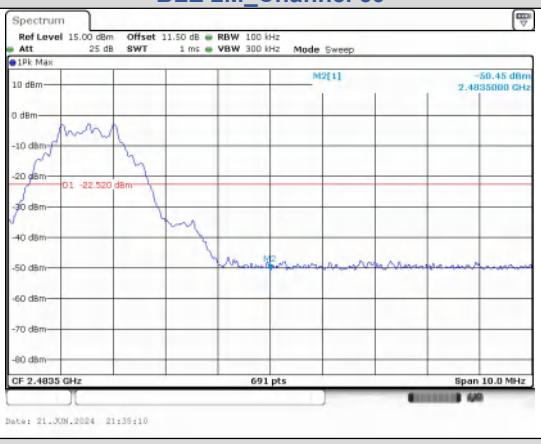
In-Band Reference Level
BLE 1M_Channel 39



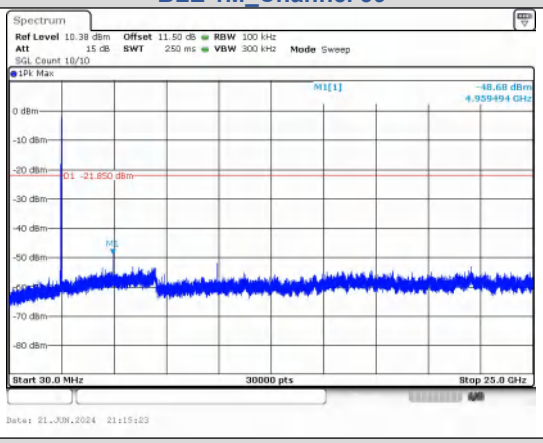
In-Band Reference Level
BLE 2M_Channel 39



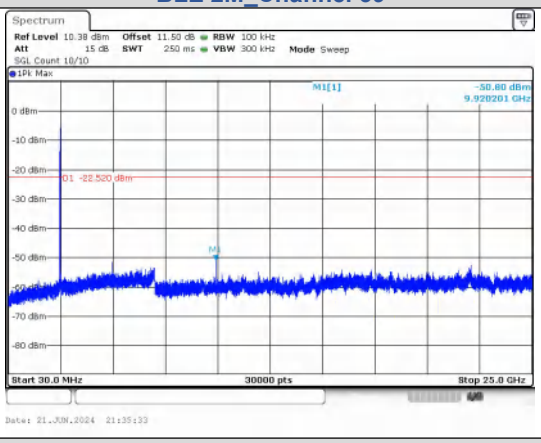
Out Of Band Emission
BLE 1M_Channel 39



Out Of Band Emission
BLE 2M_Channel 39



30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



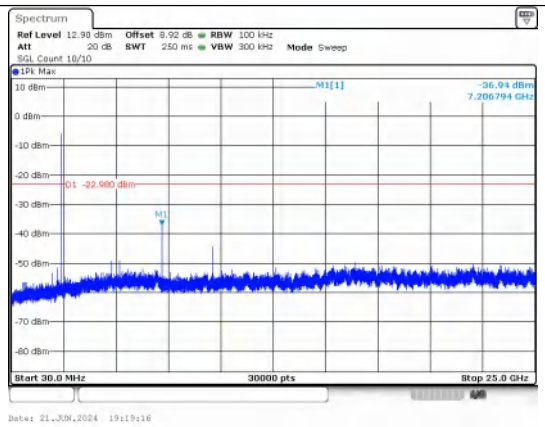
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39

Right

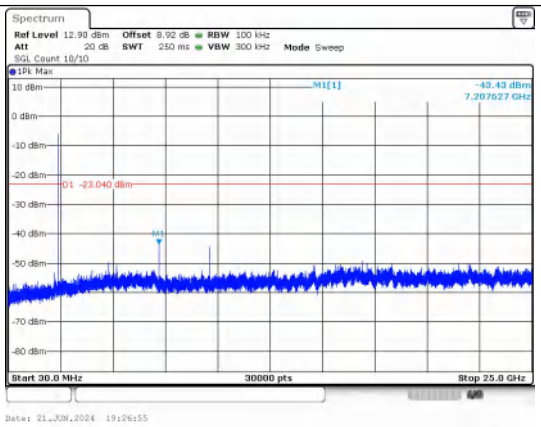
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-44.918	-22.98	-21.938	PASS
		2400.00	-52.451	-22.98	-29.471	PASS
		7206.80	-36.942	-22.98	-13.962	PASS
	19	7319.16	-40.167	-23.76	-16.407	PASS
	39	2483.50	-49.862	-23.08	-26.782	PASS
		9914.37	-39.570	-23.08	-16.490	PASS
BLE 2M	0	2400.00	-38.213	-23.04	-15.173	PASS
		7207.63	-43.430	-23.04	-20.390	PASS
	19	9753.73	-41.294	-23.75	-17.544	PASS
	39	2483.50	-53.192	-23.04	-30.152	PASS
		9914.37	-39.627	-23.04	-16.587	PASS

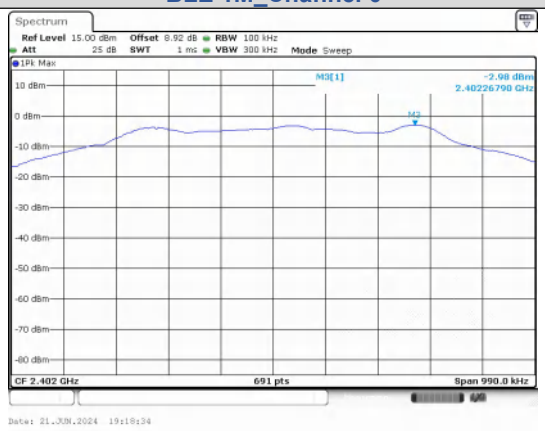
Test Graphs



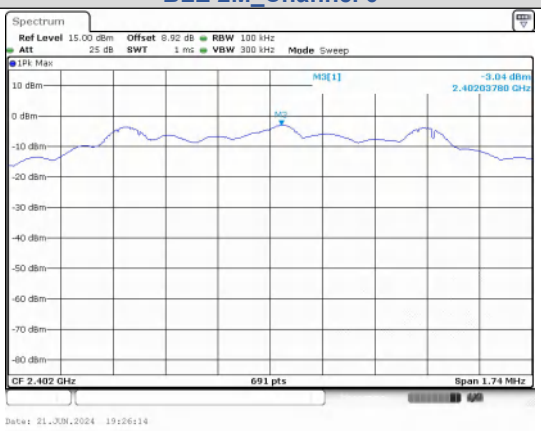
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



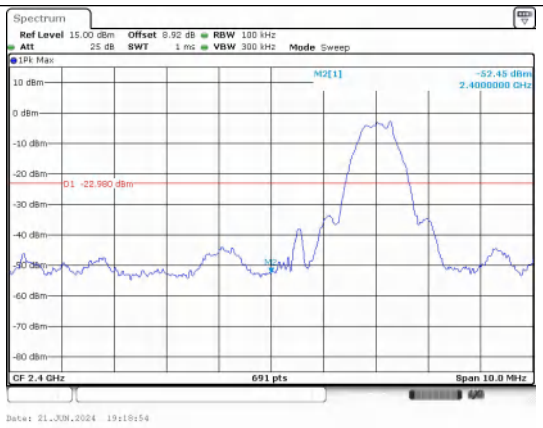
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



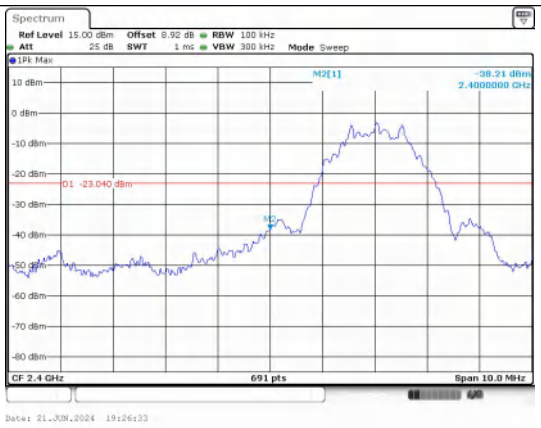
In-Band Reference Level
BLE 1M_Channel 0



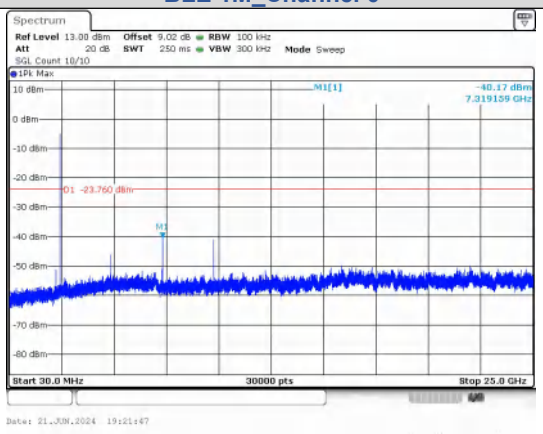
In-Band Reference Level
BLE 2M_Channel 0



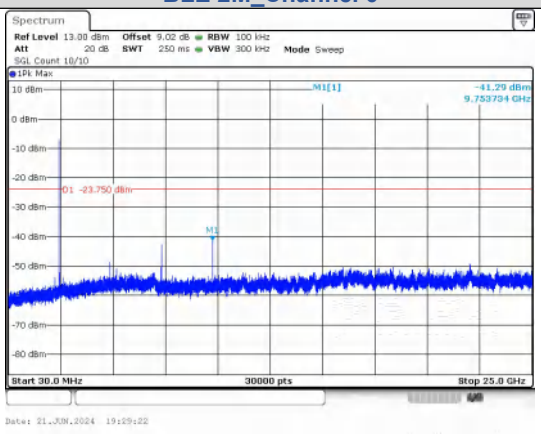
Out Of Band Emission
BLE 1M_Channel 0



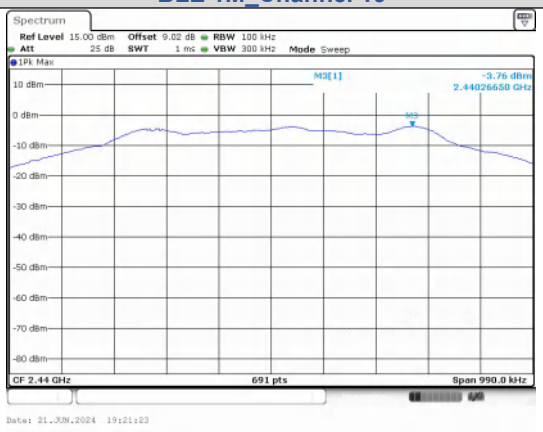
Out Of Band Emission
BLE 2M_Channel 0



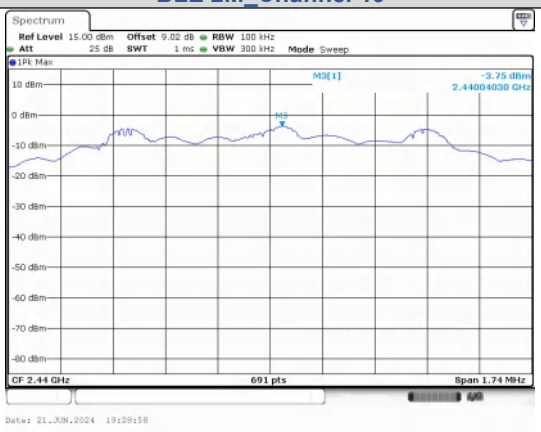
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



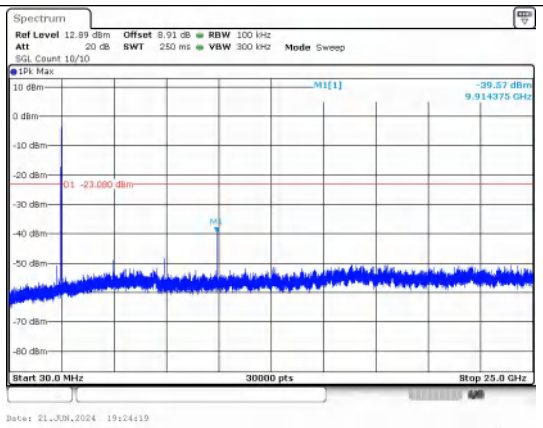
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 19



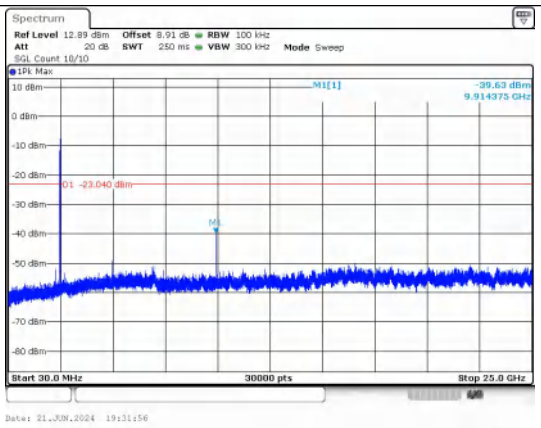
In-Band Reference Level
BLE 1M_Channel 19



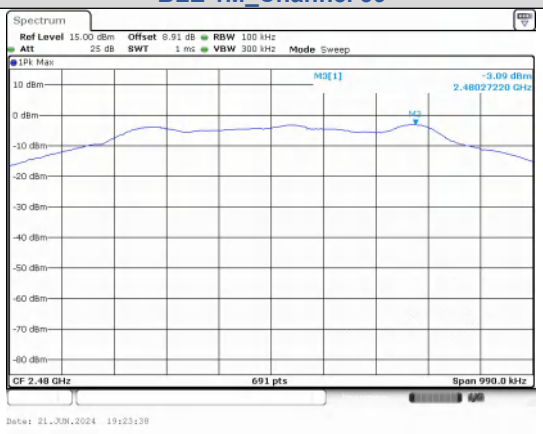
In-Band Reference Level
BLE 2M_Channel 19



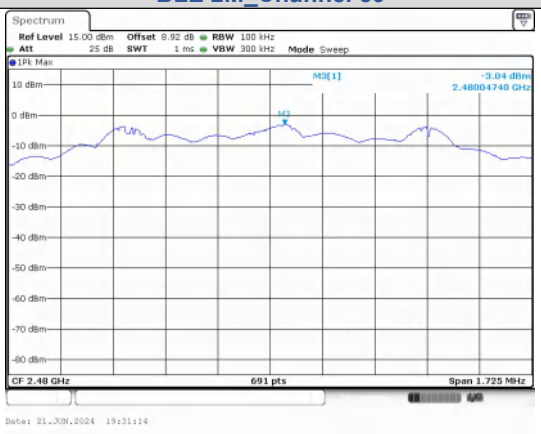
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39



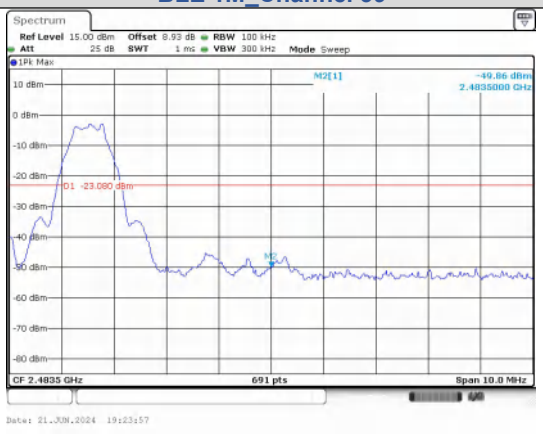
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 39



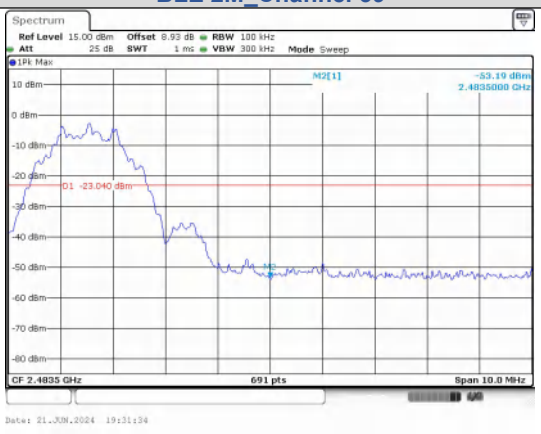
In-Band Reference Level
BLE 1M_Channel 39



In-Band Reference Level
BLE 2M_Channel 39



Out Of Band Emission
BLE 1M_Channel 39



Out Of Band Emission
BLE 2M_Channel 39

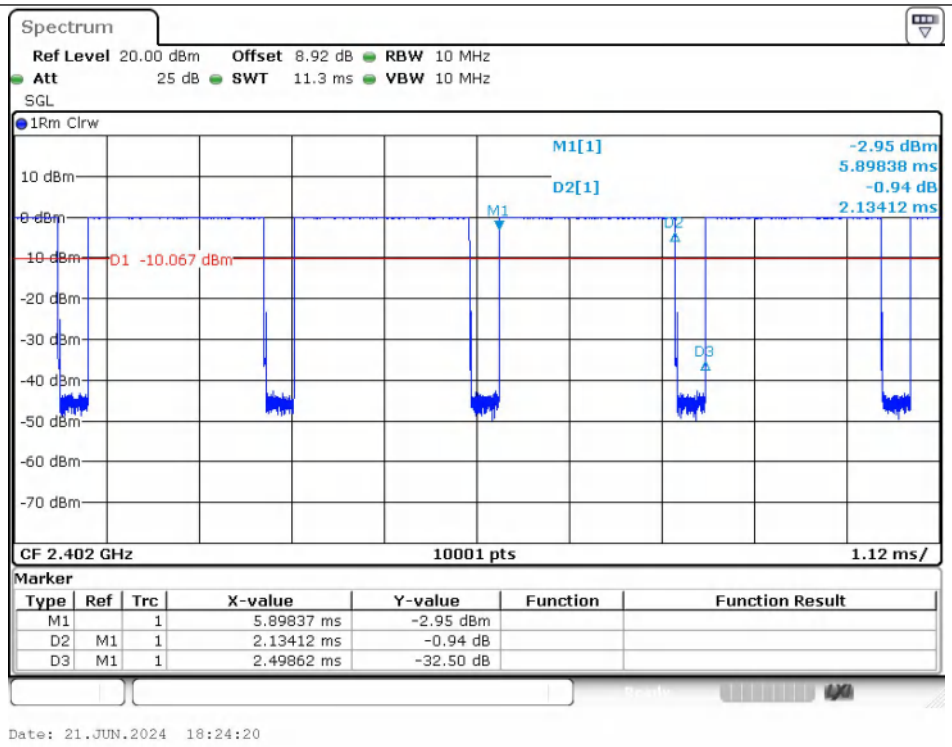
Duty Cycle

Left

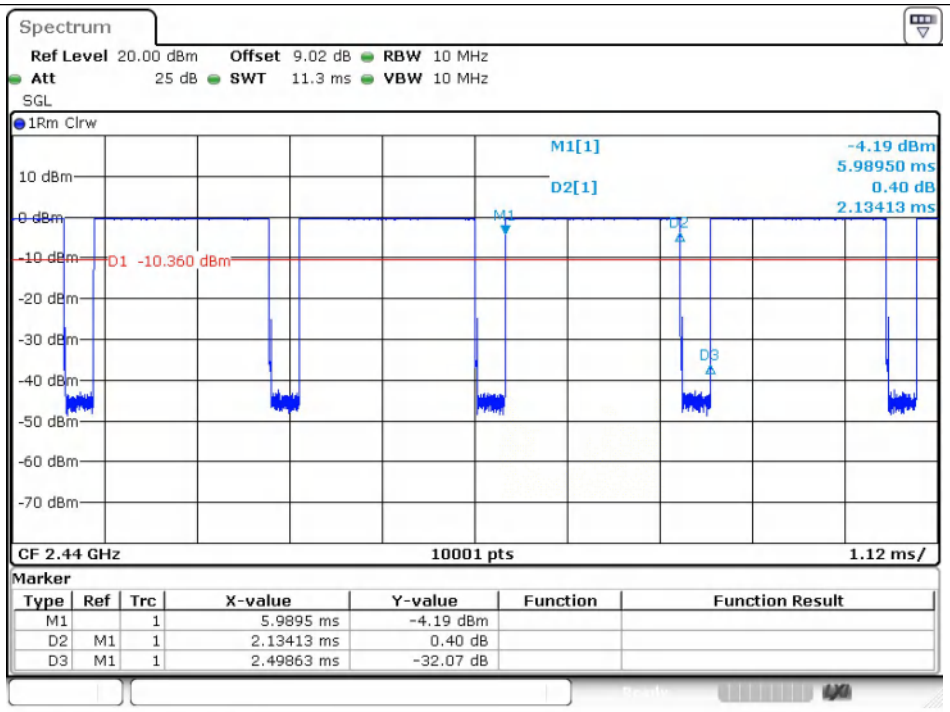
Test Result

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	0.47
	19	2.134	2.499	85.41	0.8541	0.6849	0.47
	39	2.134	2.499	85.41	0.8541	0.6849	0.47
BLE 2M	0	1.082	2.499	43.31	0.4331	3.6341	0.92
	19	1.082	2.499	43.31	0.4331	3.6341	0.92
	39	1.077	2.486	43.31	0.4331	3.6341	0.93

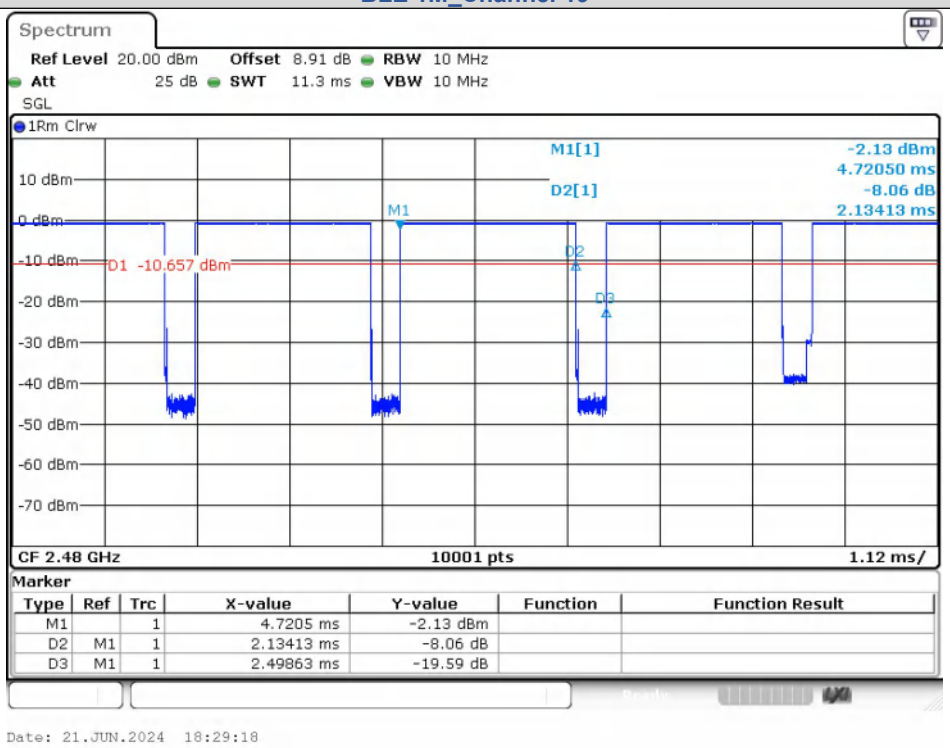
Test Graphs



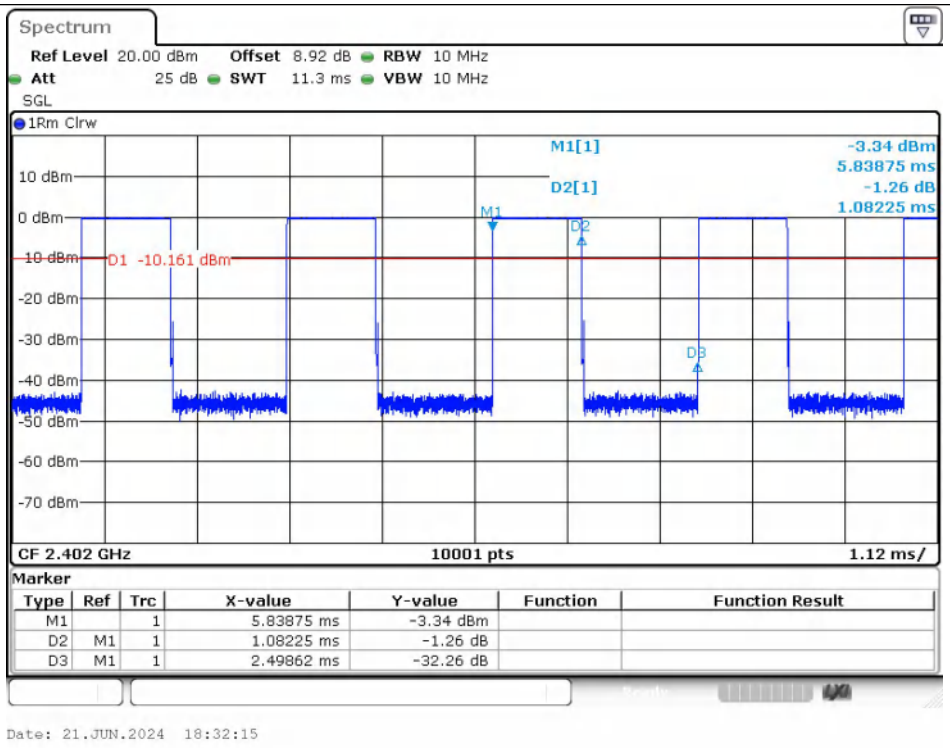
BLE 1M_Channel 0



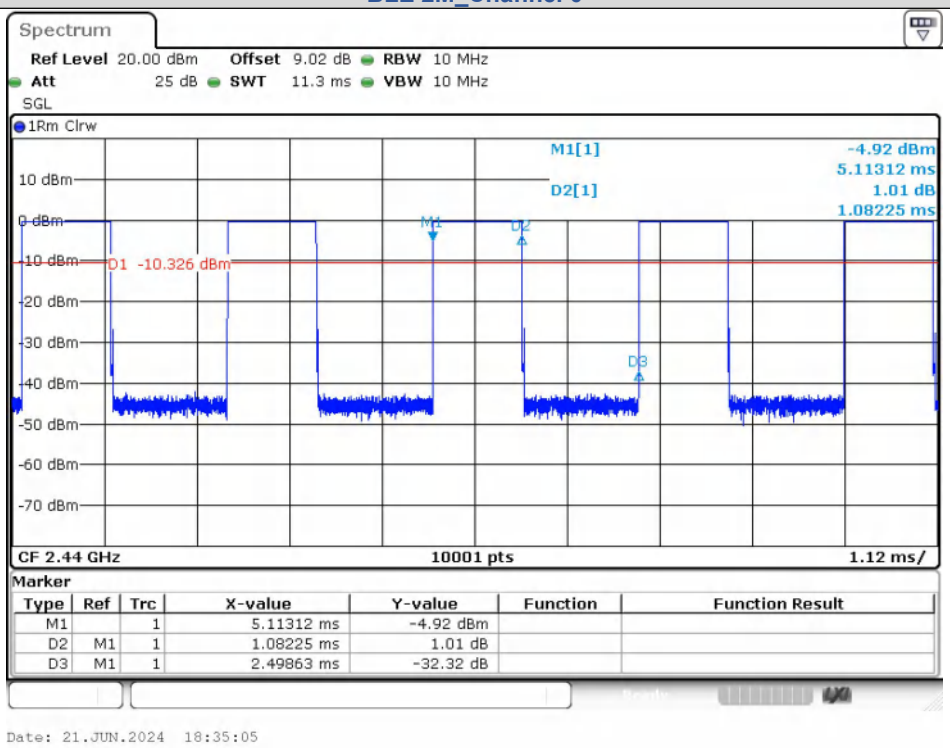
BLE 1M_Channel 19



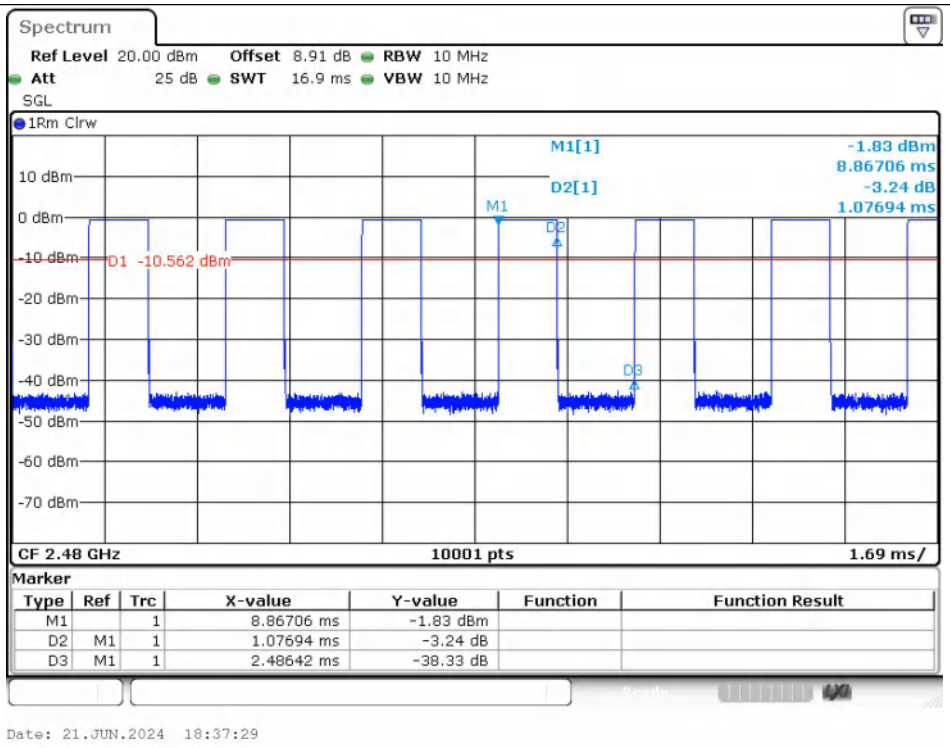
BLE 1M_Channel 39



BLE 2M_Channel 0



BLE 2M_Channel 19



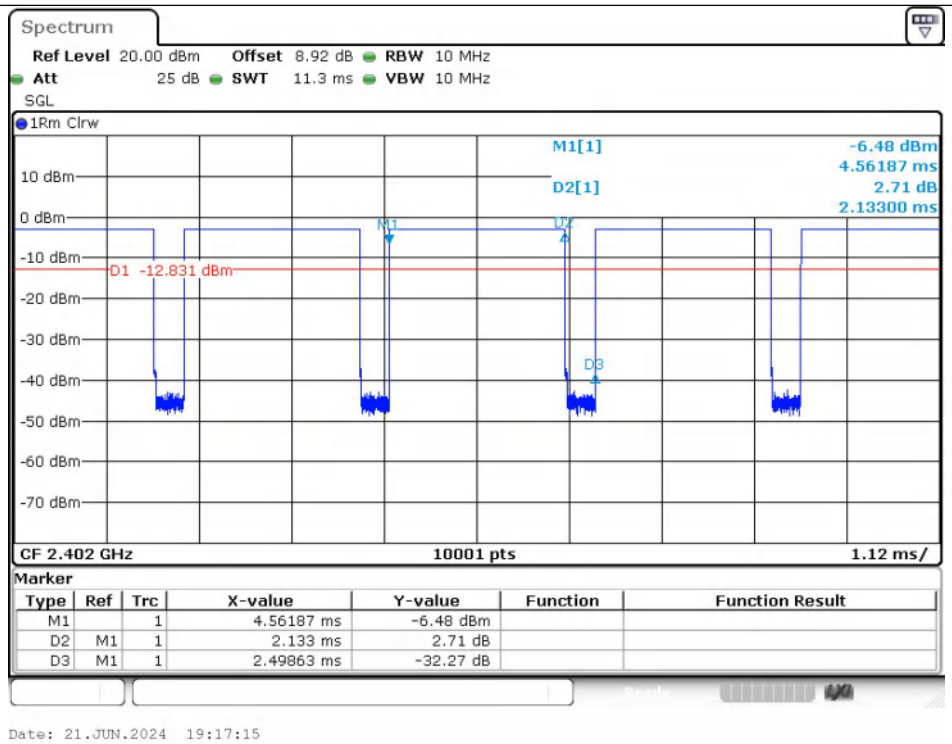
BLE 2M_Channel 39

Right

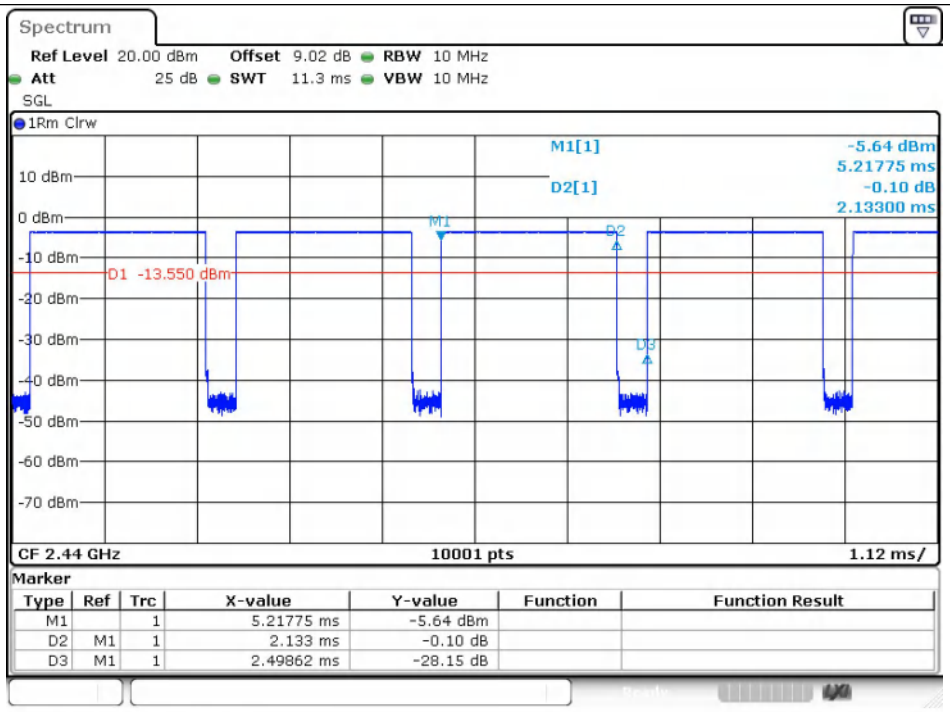
Test Result

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	0.47
	19	2.133	2.499	85.37	0.8537	0.6869	0.47
	39	2.134	2.500	85.37	0.8537	0.6869	0.47
BLE 2M	0	1.082	2.499	43.31	0.4331	3.6341	0.92
	19	1.081	2.499	43.27	0.4327	3.6381	0.93
	39	1.081	2.499	43.27	0.4327	3.6381	0.93

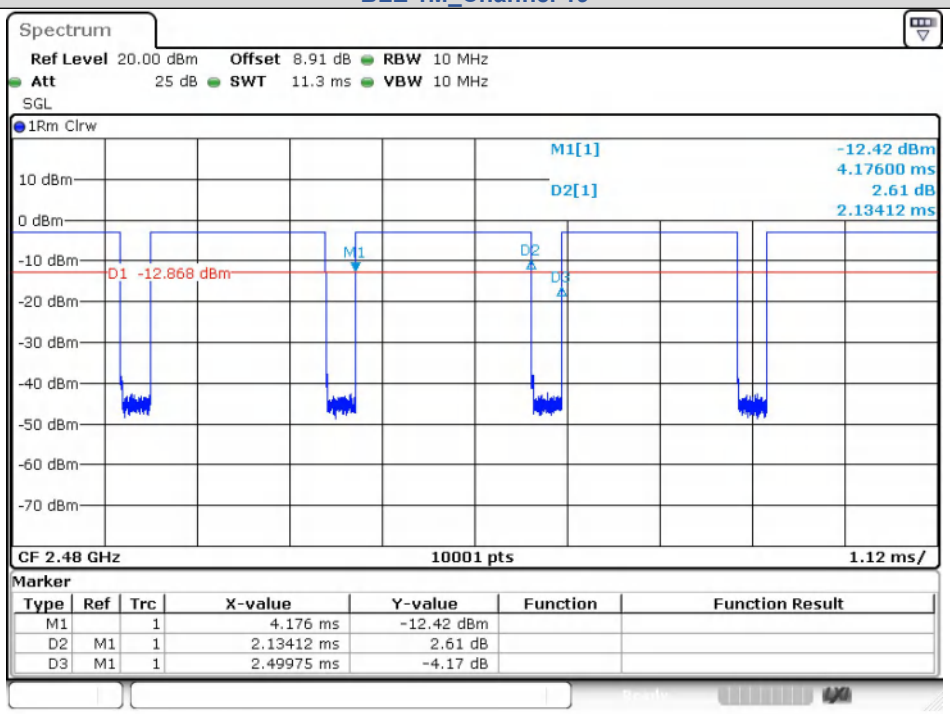
Test Graphs



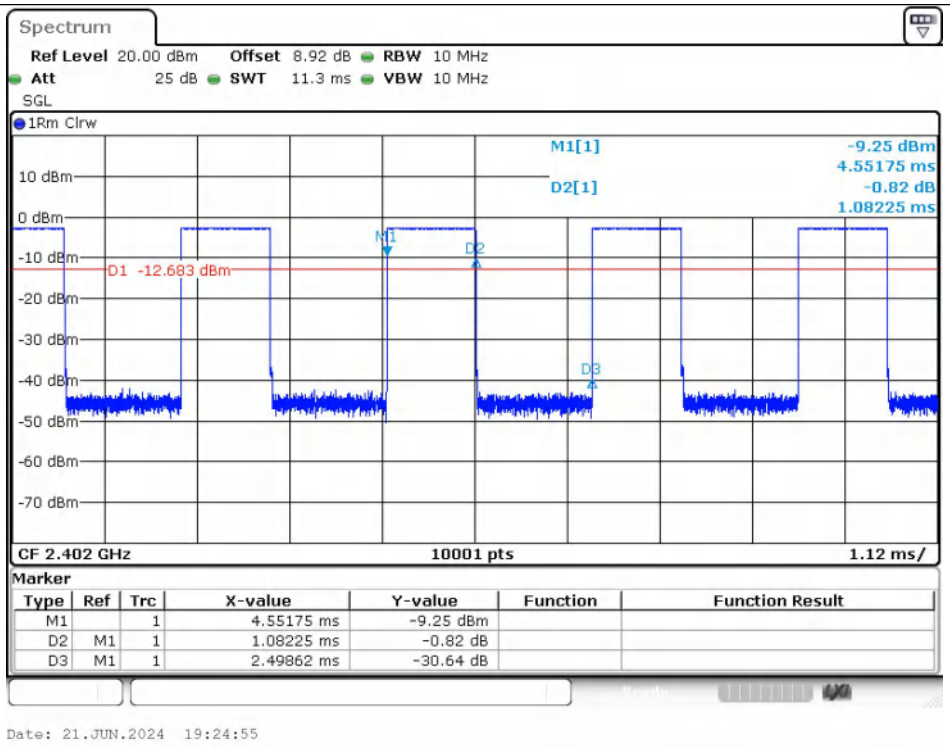
BLE 1M_Channel 0



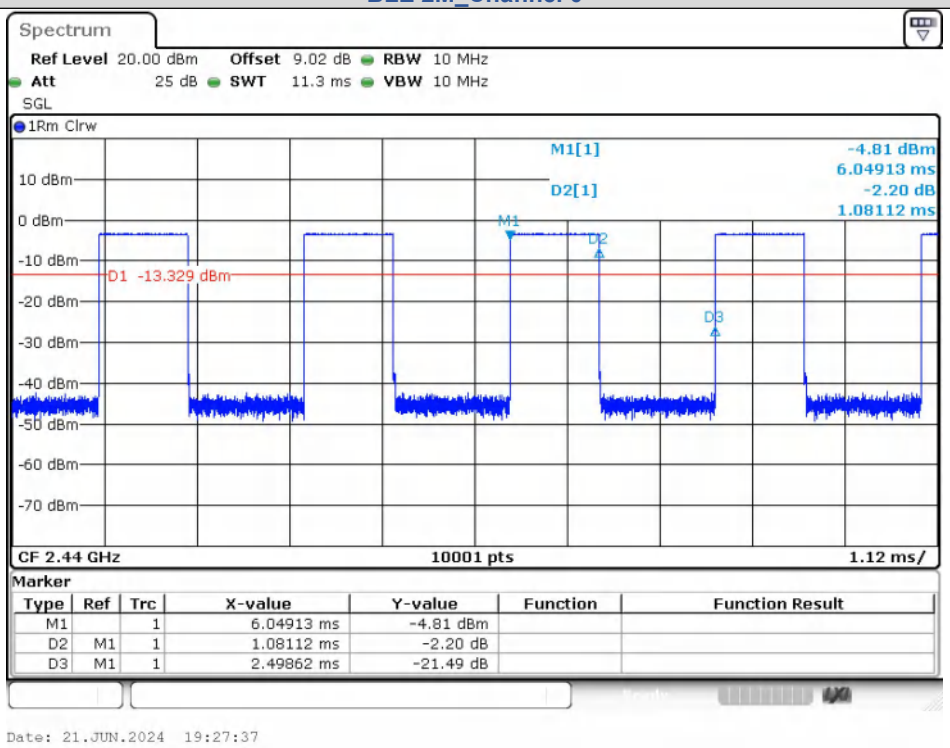
BLE 1M_Channel 19



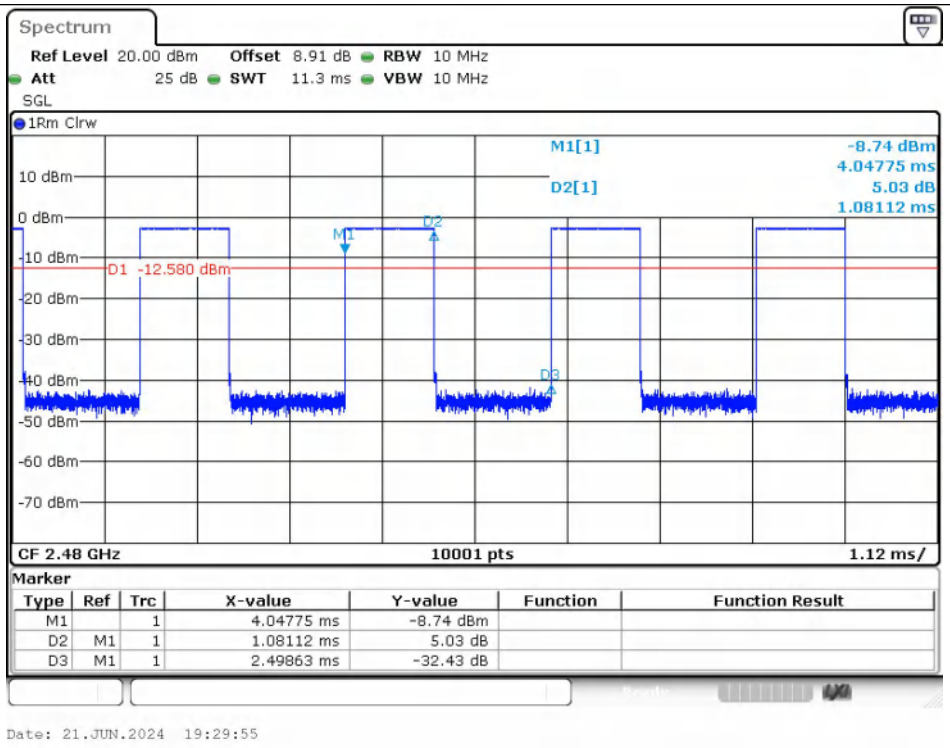
BLE 1M_Channel 39



BLE 2M_Channel 0



BLE 2M_Channel 19



BLE 2M_Channel 39

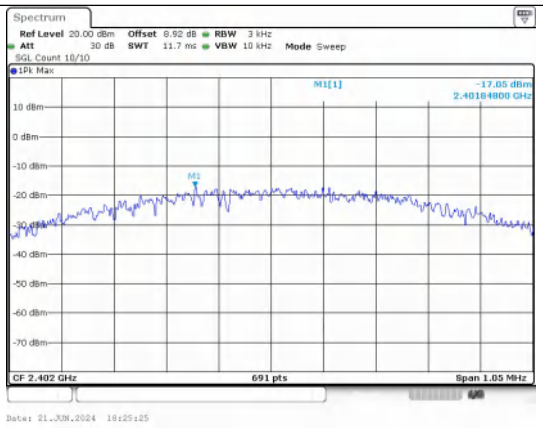
Power Spectral Density

Left

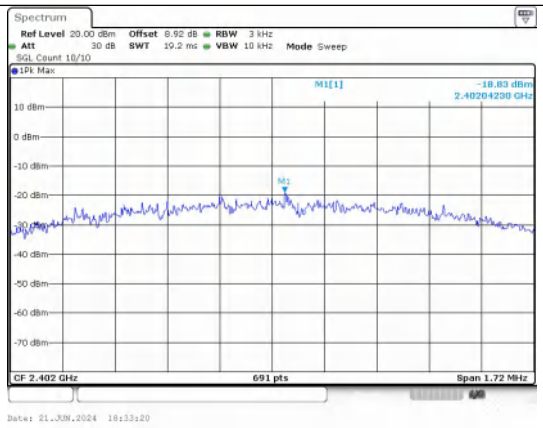
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-17.048	≤8	PASS
BLE 1M	19	-17.407	≤8	PASS
BLE 1M	39	-17.565	≤8	PASS
BLE 2M	0	-18.829	≤8	PASS
BLE 2M	19	-18.437	≤8	PASS
BLE 2M	39	-20.262	≤8	PASS

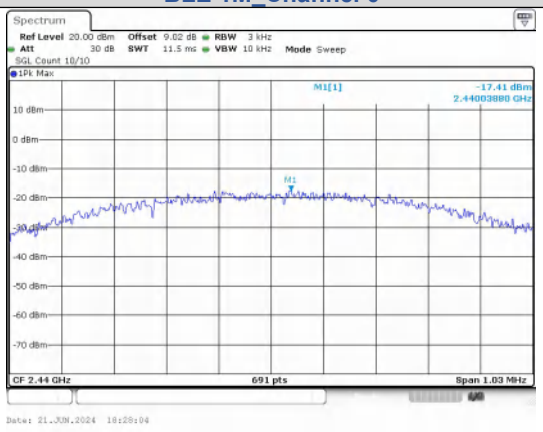
Test Graphs



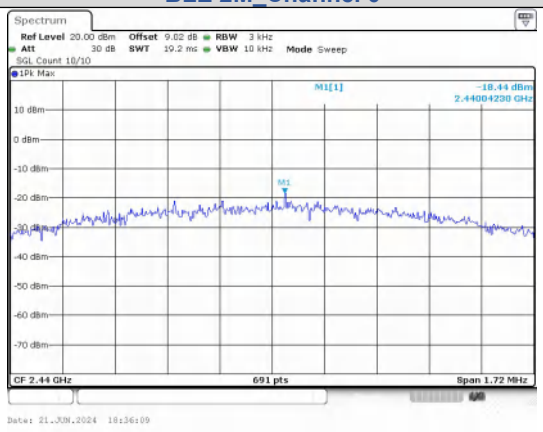
BLE 1M_Channel 0



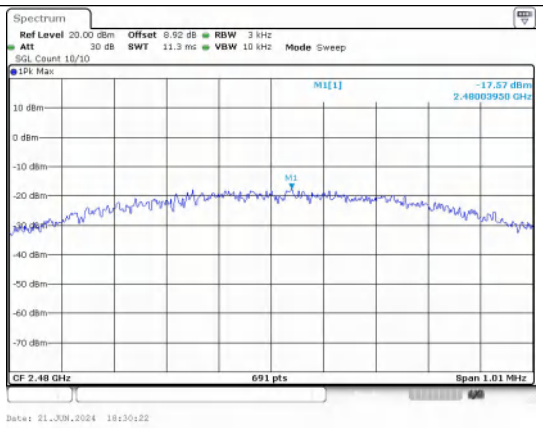
BLE 2M_Channel 0



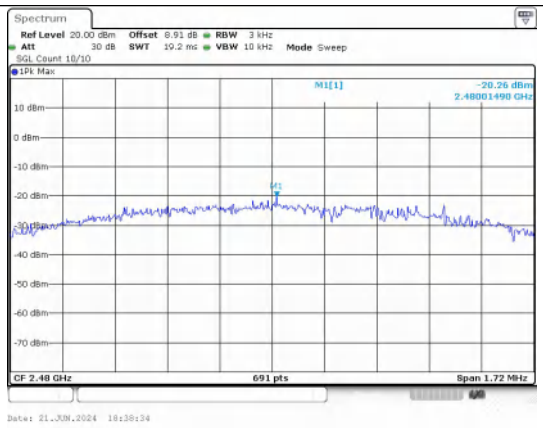
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



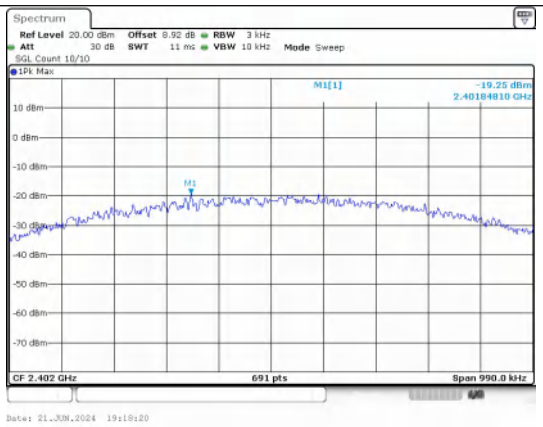
BLE 2M_Channel 39

Right

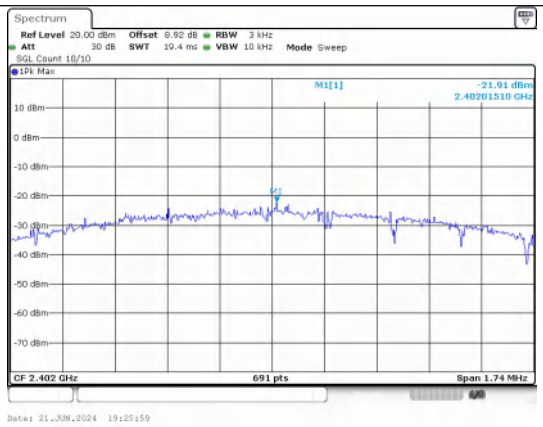
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-19.253	≤8	PASS
BLE 1M	19	-20.379	≤8	PASS
BLE 1M	39	-19.689	≤8	PASS
BLE 2M	0	-21.913	≤8	PASS
BLE 2M	19	-21.693	≤8	PASS
BLE 2M	39	-21.129	≤8	PASS

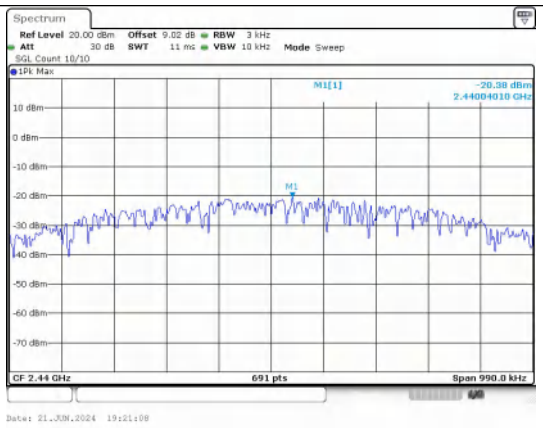
Test Graphs



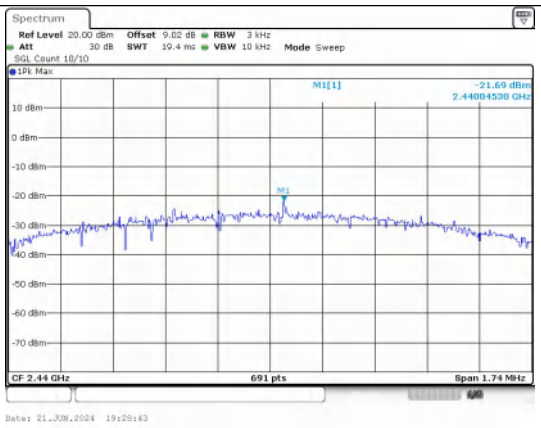
BLE 1M_Channel 0



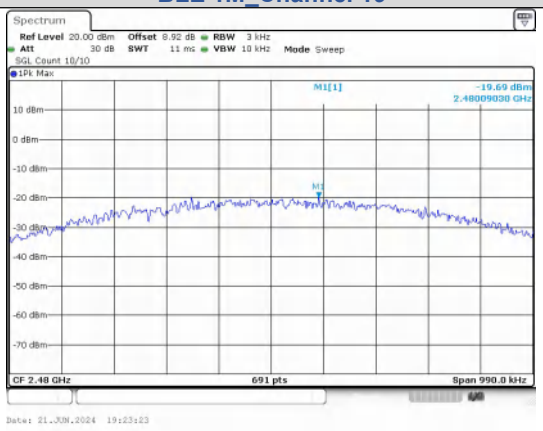
BLE 2M_Channel 0



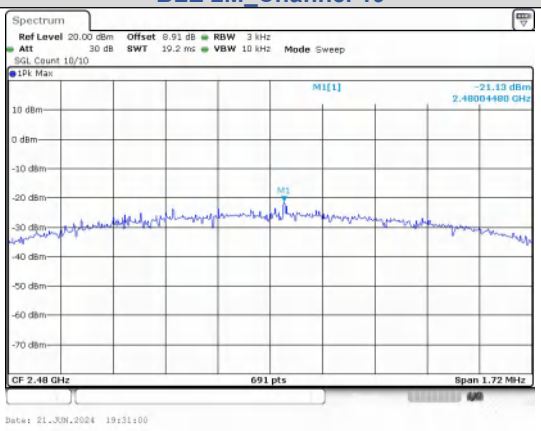
BLE 1M_Channel 19



BLE 2M_Channel 19



BLE 1M_Channel 39



BLE 2M_Channel 39