

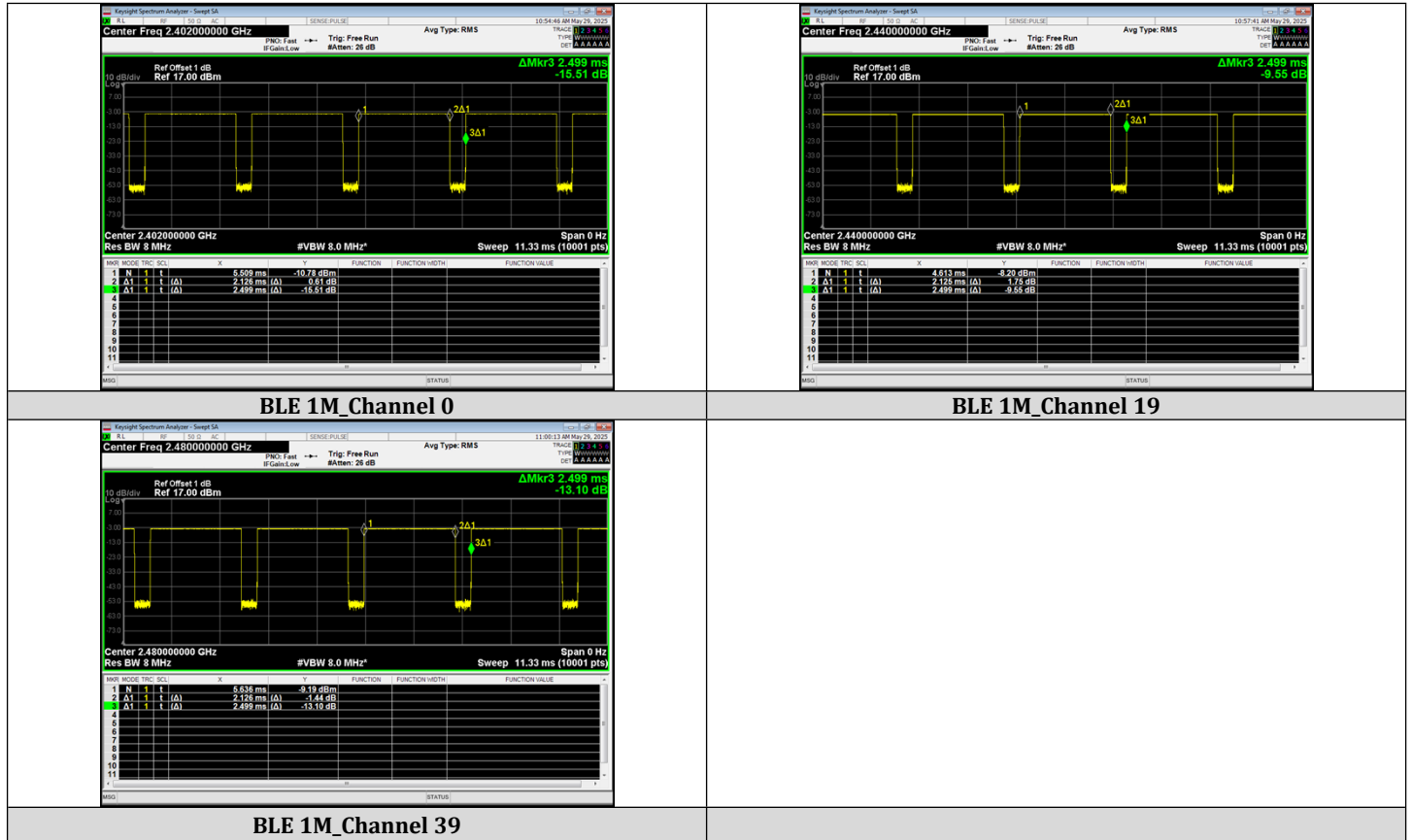
Appendix RF test data for BLE



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	2.126	2.499	85.08	0.8508	0.7017	0.4704
	19	2.125	2.499	85.03	0.8503	0.7043	0.4706
	39	2.126	2.499	85.08	0.8508	0.7017	0.4704

Test Graphs



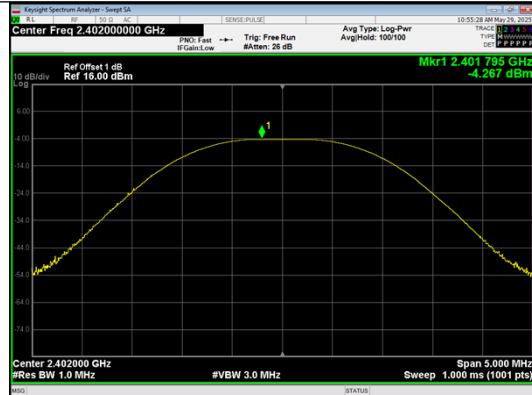


Conducted Output Power

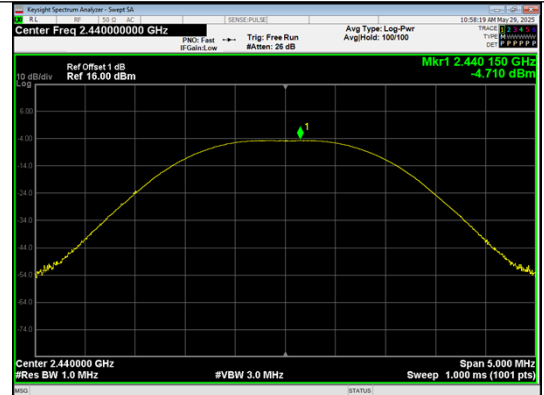
Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	-4.27	0.37	≤30	PASS
	19	-4.71	0.34	≤30	PASS
	39	-3.70	0.43	≤30	PASS

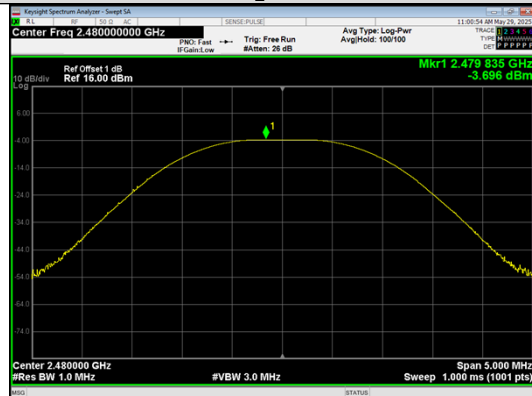
Test Graphs



Peak Output Power
BLE 1M_Channel 0



Peak Output Power
BLE 1M_Channel 19



Peak Output Power
BLE 1M_Channel 39

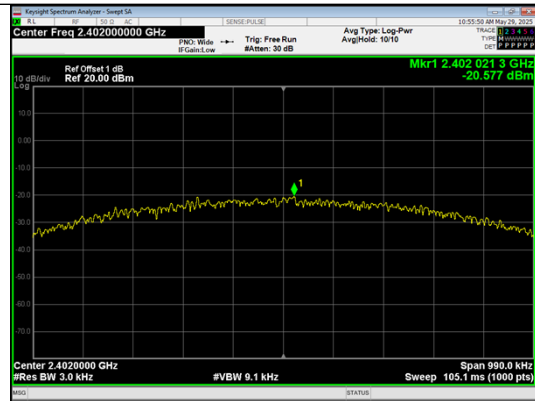


Power Spectral Density

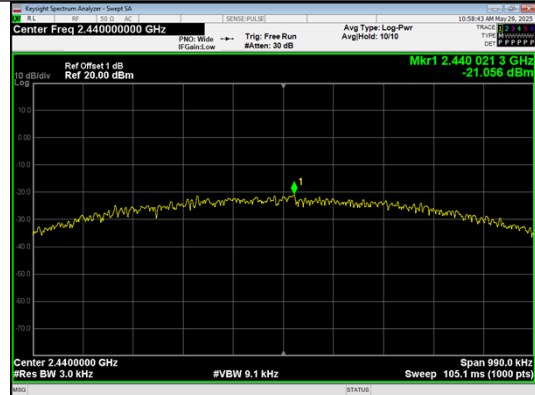
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-20.577	≤8	PASS
BLE 1M	19	-21.056	≤8	PASS
BLE 1M	39	-19.879	≤8	PASS

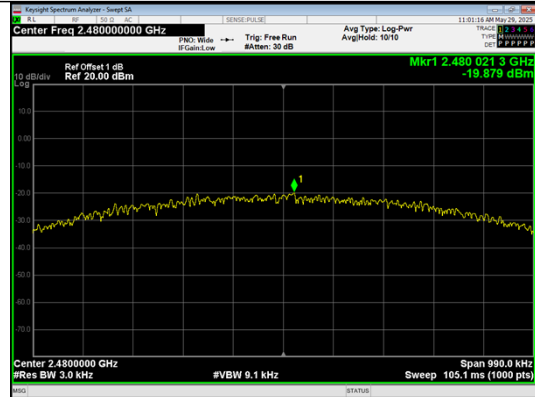
Test Graphs



BLE 1M_Channel 0



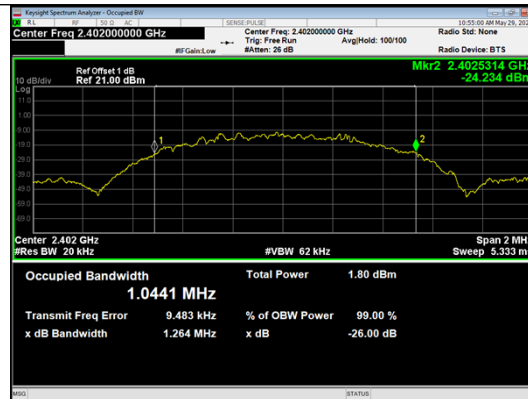
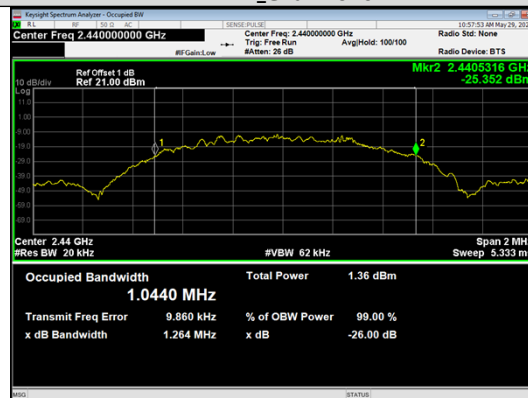
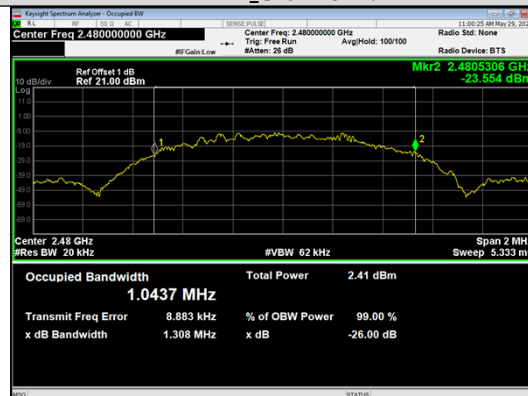
BLE 1M_Channel 19



BLE 1M_Channel 39

**99% Bandwidth****Test Result**

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0441
BLE 1M	19	2440	1.0440
BLE 1M	39	2480	1.0437

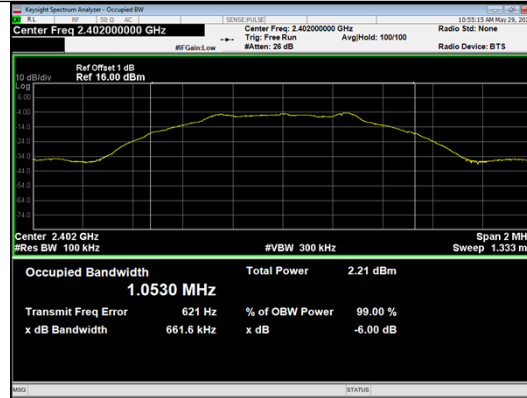
Test Graphs**BLE 1M_Channel 0****BLE 1M_Channel 19****BLE 1M_Channel 39**

6dB Bandwidth

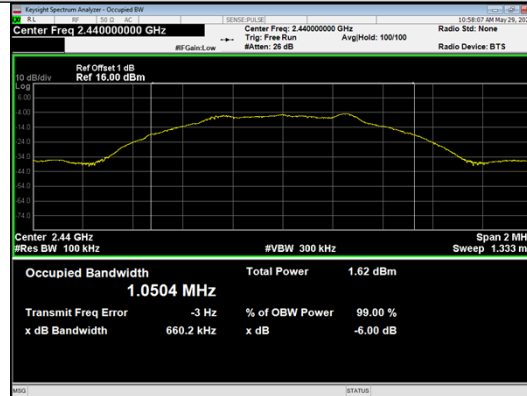
Test Result

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6616	≥0.5	PASS
	19	2440	0.6602		PASS
	39	2480	0.6633		PASS

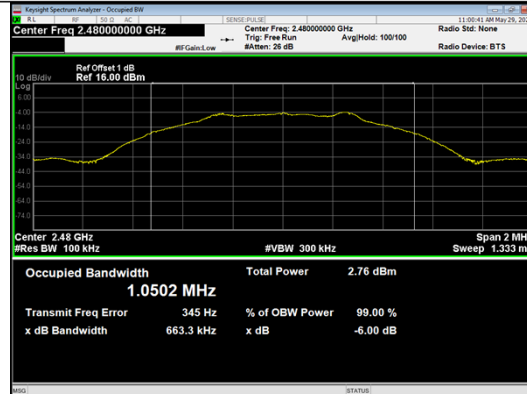
Test Graphs



BLE 1M_Channel 0



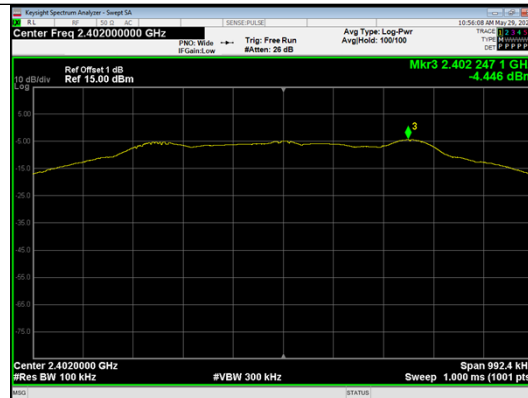
BLE 1M_Channel 19



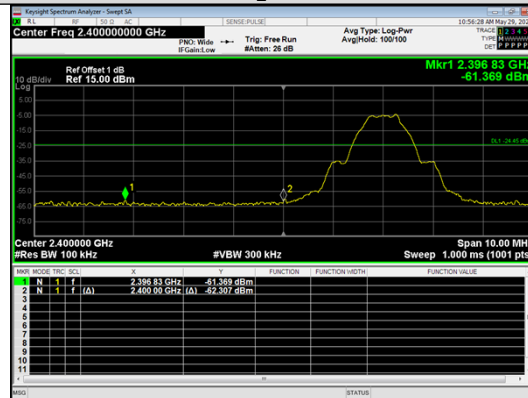
BLE 1M_Channel 39

**Conducted Out Of Band Emission****Test Result**

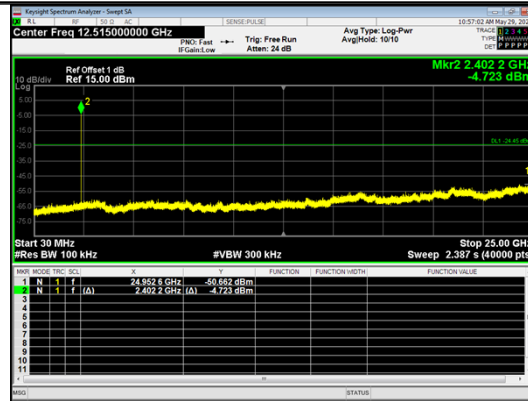
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2396.83	-61.369	-24.45	-36.919	PASS
		2400.00	-62.307	-24.45	-37.857	PASS
		24952.6	-50.662	-24.45	-26.212	PASS
	19	24976.9	-49.562	-24.93	-24.633	PASS
	39	2483.50	-63.753	-23.8	-39.953	PASS
		2656.91	-44.385	-23.8	-20.585	PASS
BLE 2M	0	2400.00	-36.088	-25.12	-10.968	PASS
		24860.2	-50.446	-25.12	-25.326	PASS
	19	2652.54	-32.774	-25.5	-7.274	PASS
	39	2483.50	-61.362	-24.17	-37.192	PASS
		3402.28	-39.478	-24.17	-15.308	PASS

Test Graphs

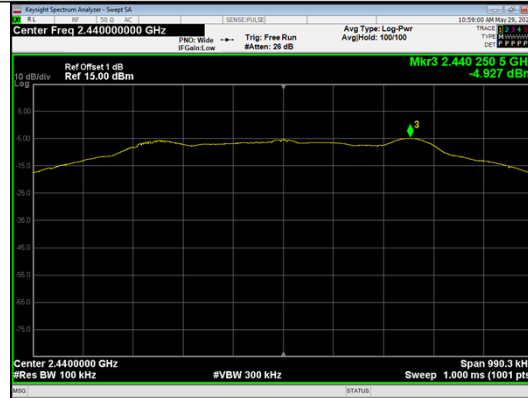
**In-Band Reference Level
BLE 1M_Channel 0**



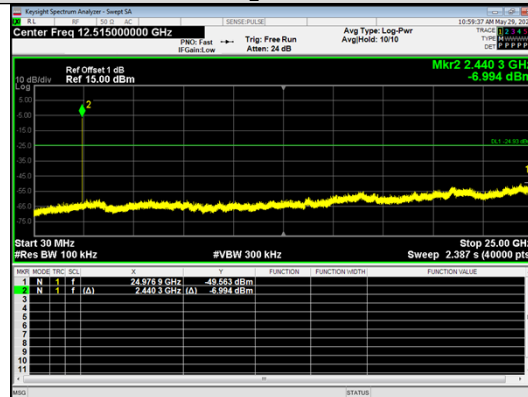
**Out Of Band Emission
BLE 1M_Channel 0**



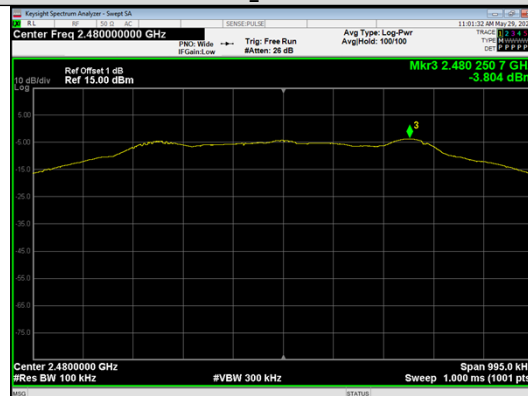
30.0 MHz - 25000.0 MHz BLE 1M_Channel 0



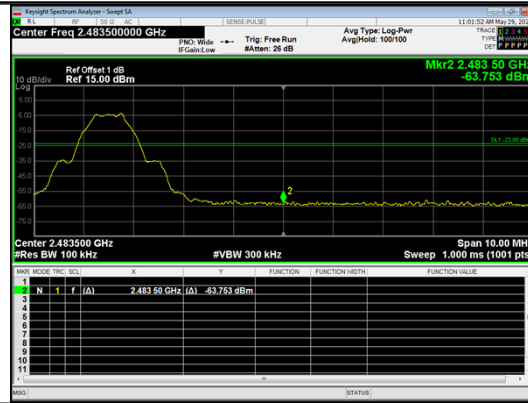
In-Band Reference Level BLE 1M_Channel 19



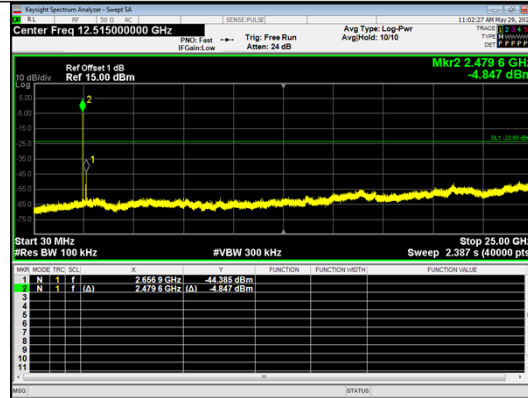
30.0 MHz - 25000.0 MHz BLE 1M_Channel 19



In-Band Reference Level BLE 1M_Channel 39



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



**30.0 MHz - 25000.0 MHz
BLE 1M_Channel 39**

***** End of Report *****