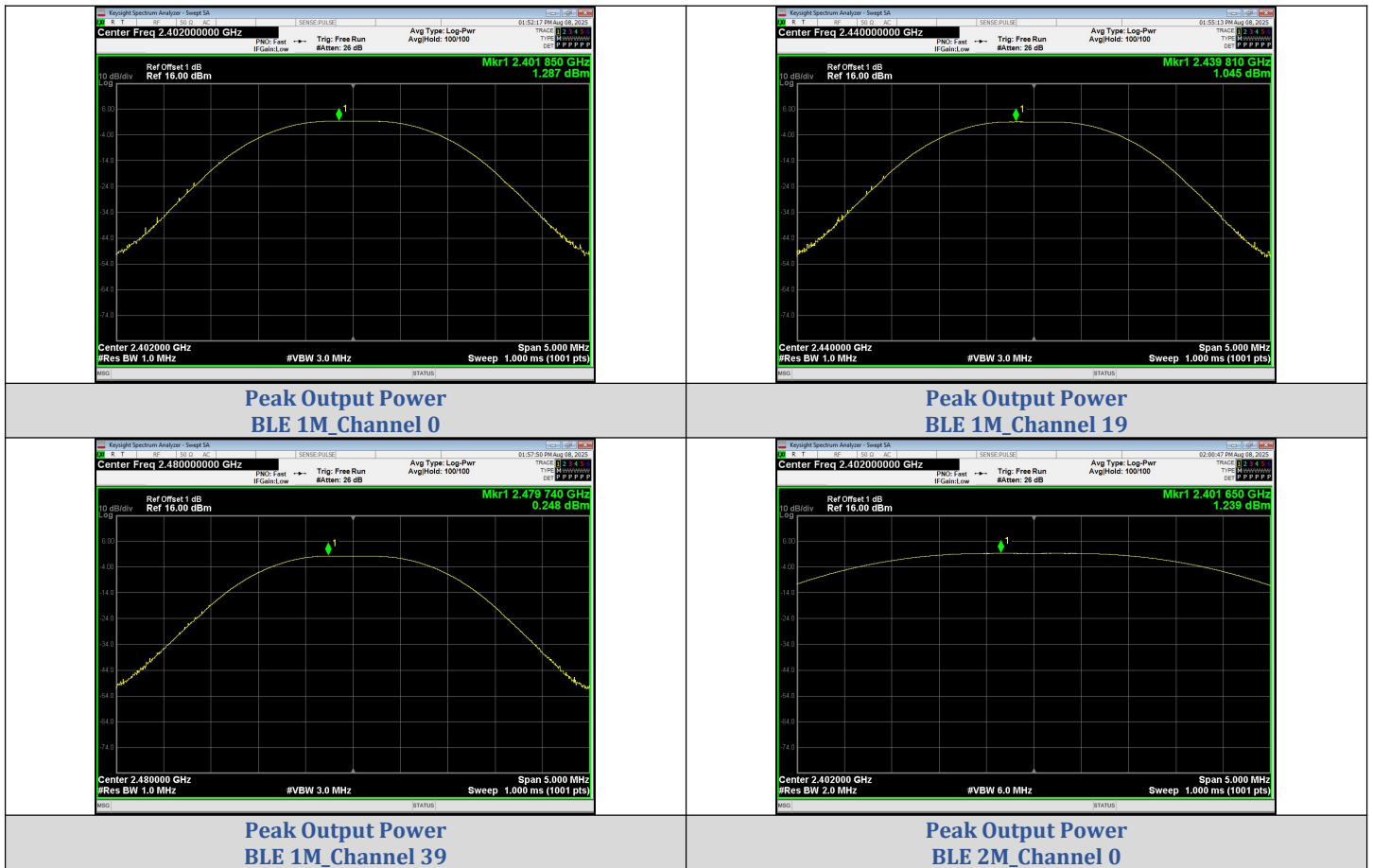


Conducted Output Power

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	1.29	1.35	≤30	PASS
	19	1.04	1.27	≤30	PASS
	39	0.25	1.06	≤30	PASS
BLE 2M	0	1.24	1.33	≤30	PASS
	19	1.07	1.28	≤30	PASS
	39	0.36	1.09	≤30	PASS

Test Graphs



KeySight Spectrum Analyzer - Sample 5A

Center Freq 2.440000000 GHz

SENSE POLSE

02:53:45 PM Aug 08, 2015

Power: 0.000000000 W

Time: 0.000000000 s

Ref: 0.000000000 dBm

Avg Type: Log-Pwr

Avg/Hold: 100/100

Trig: Free Run

Pattern: 26 dB

Ref Offset: 1 dB

Ref: 16.00 dBm

Mkr1 2.439 680 GHz

1.071 dBm

10 dB/div

Log

6.00

4.00

2.00

0.00

-2.00

-4.00

-6.00

-8.00

-10.00

-12.00

-14.00

-16.00

-18.00

-20.00

Center 2.440000 GHz

#Res BW 2.0 MHz

#VBW 6.0 MHz

Span 5.000 MHz

Sweep 1.000 ms (1001 pts)

MAG (STATUS)

Keysight Spectrum Analyzer - Snpqt SA
 Center Freq 2.480000000 GHz
 Span 5.000 MHz
 Ref Offset 1 dB
 Ref 16.00 dBm
 #Res BW 2.0 MHz
 #VBW 6.0 MHz
 Sweep 1.000 ms (1001 pts)

10 dB/div
 Log
 6.00
 4.00
 2.00
 0.00
 -2.00
 -4.00
 -6.00
 -8.00
 -10.00

Avg Type: Log-Pwr
 AvgHold: 100/100
 Span 5.000 MHz
 Mkr1 2.479 470 GHz
 0.360 dBm

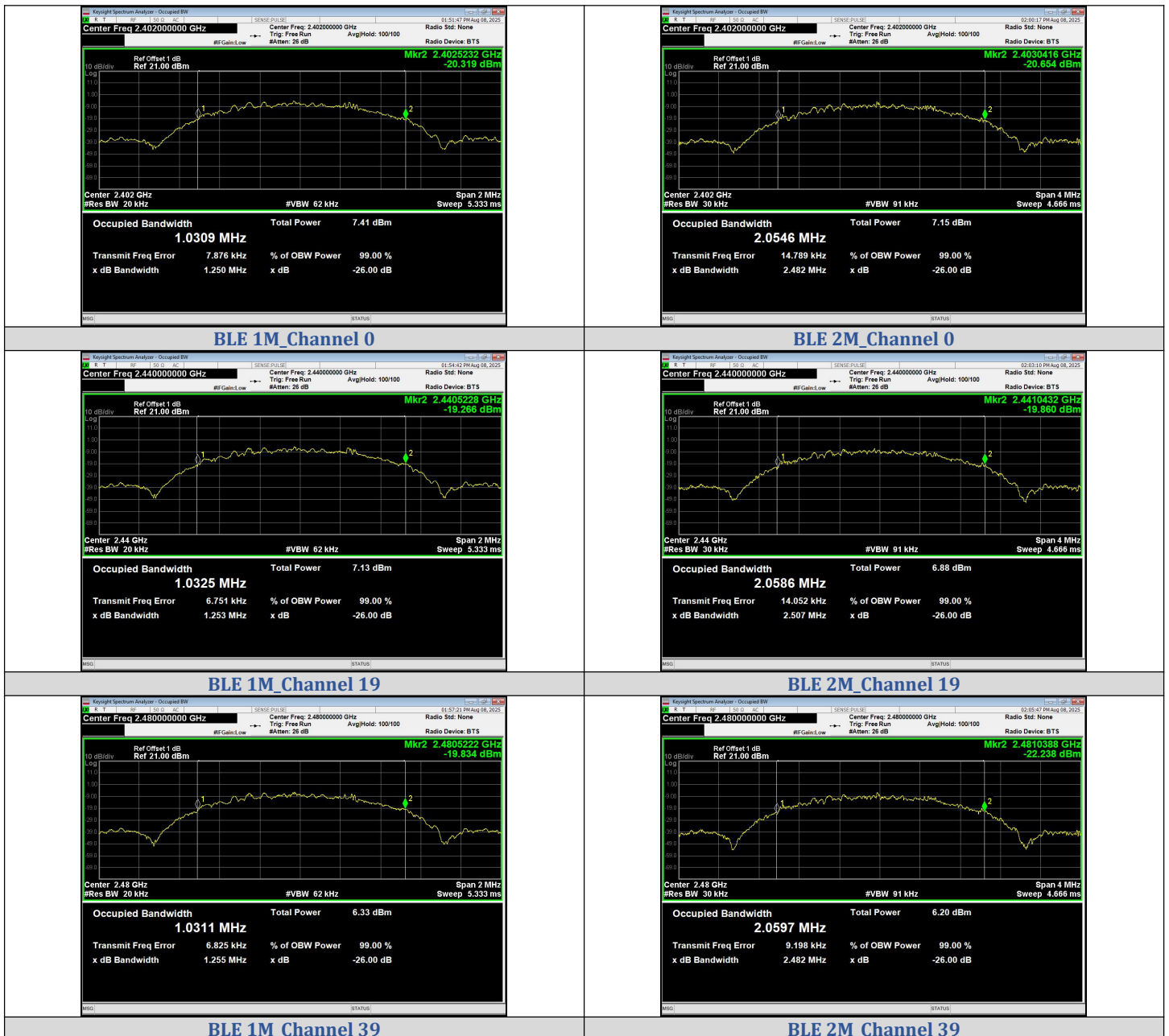


99% Bandwidth

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0309
BLE 1M	19	2440	1.0325
BLE 1M	39	2480	1.0311
BLE 2M	0	2402	2.0546
BLE 2M	19	2440	2.0586
BLE 2M	39	2480	2.0597

Test Graphs



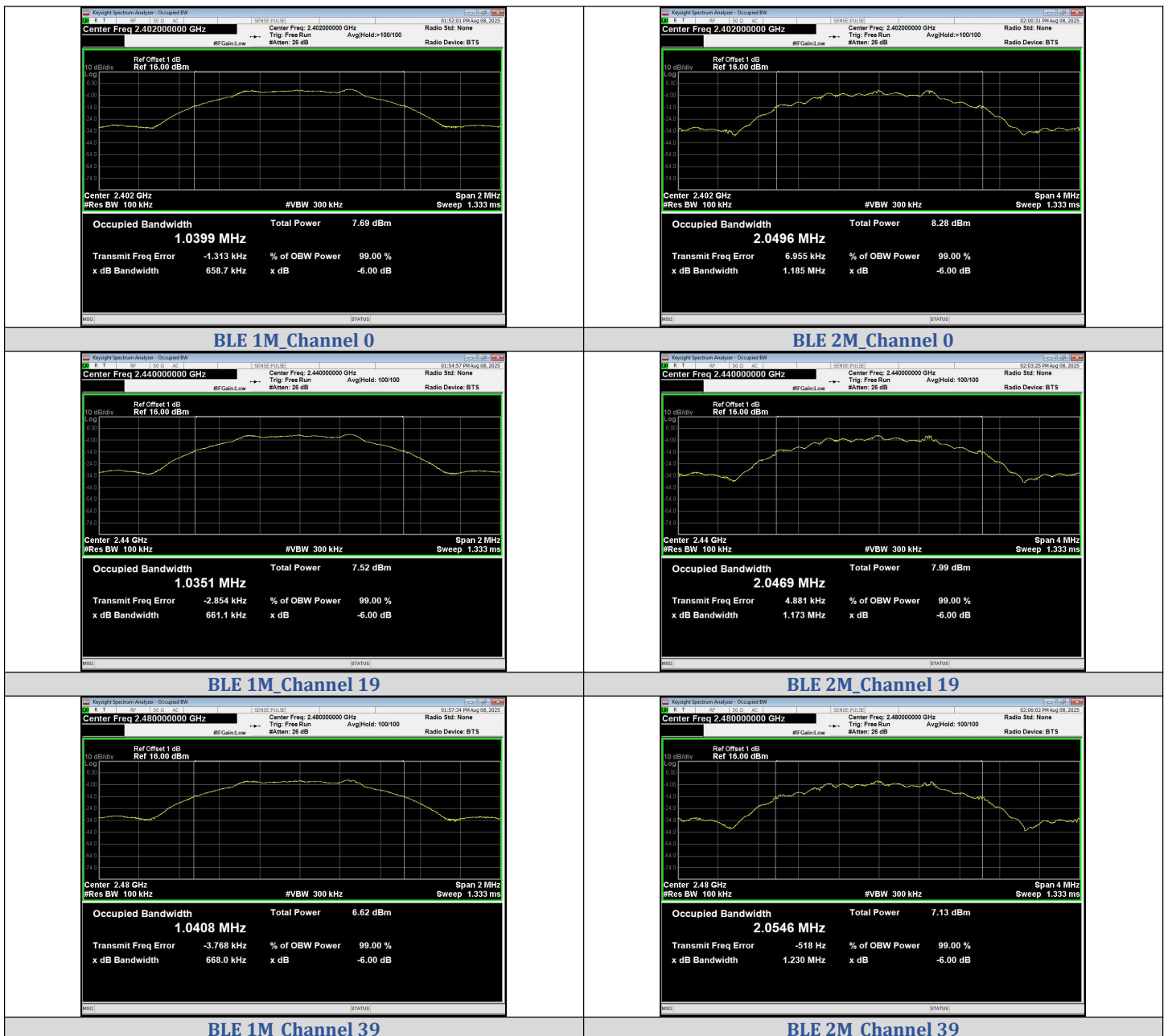


6dB Bandwidth

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	0.6600		PASS
	39	2480	0.6700		PASS
BLE 2M	0	2402	1.190		PASS
	19	2440	1.170		PASS
	39	2480	1.230		PASS

Test Graphs



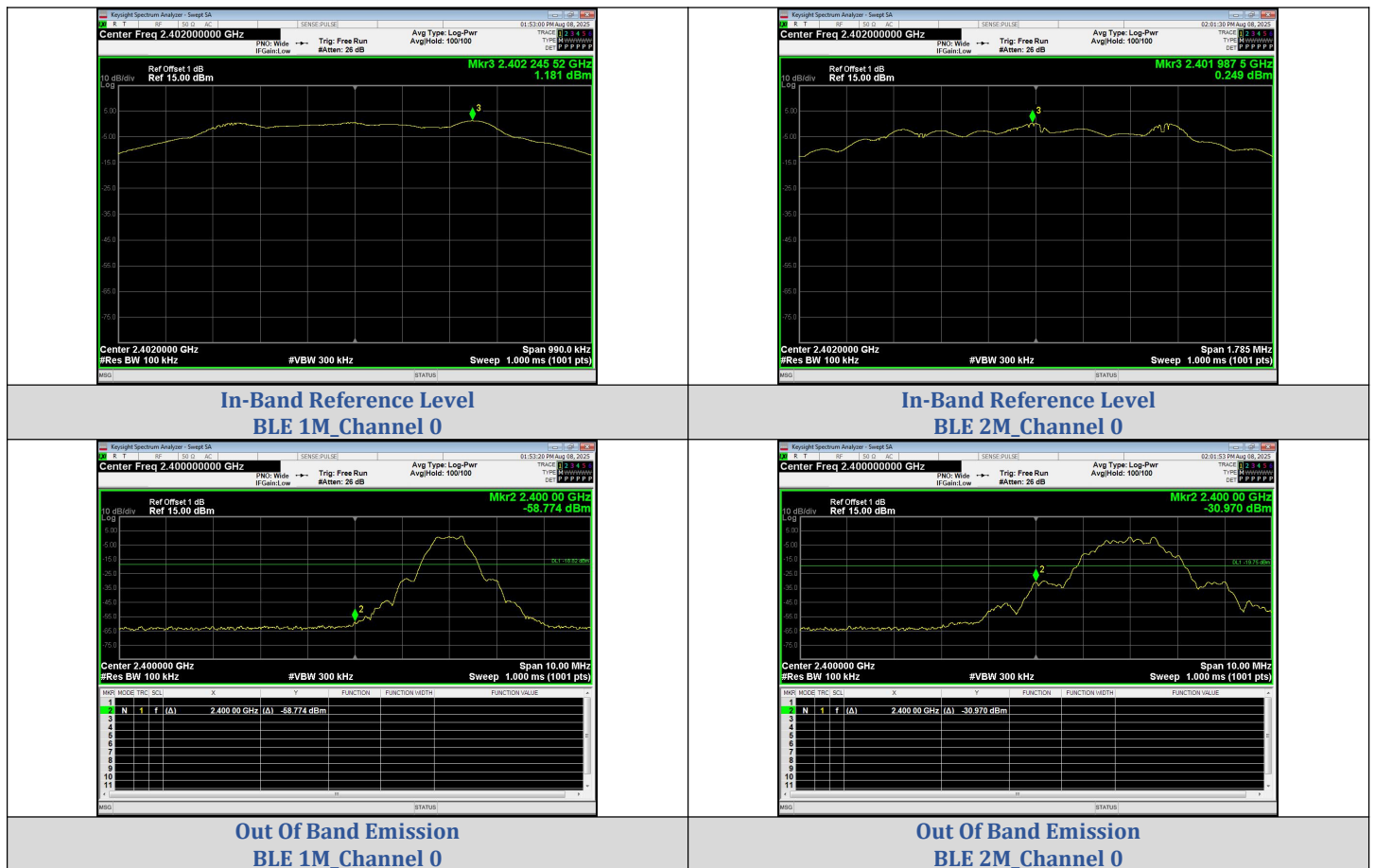


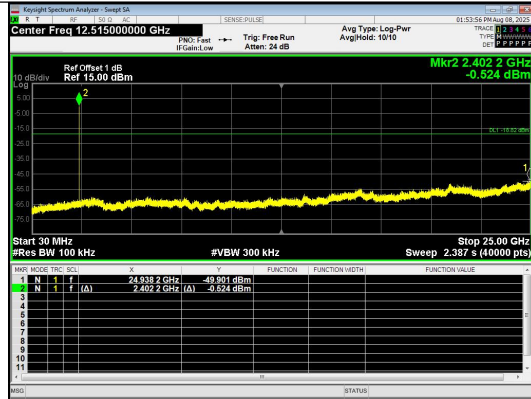
Conducted Out Of Band Emission

Test Result

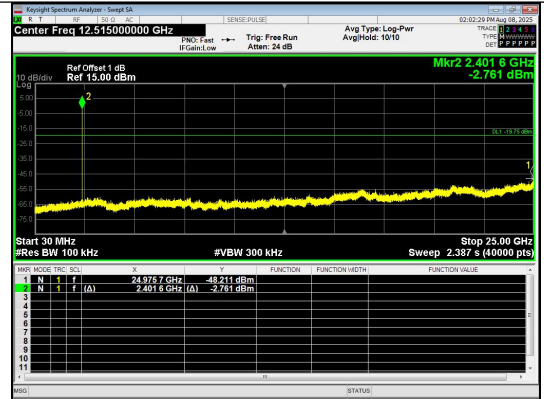
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-58.770	-18.82	-39.950	PASS
		24938.2	-49.901	-18.82	-31.081	PASS
	19	23965.6	-49.663	-19.17	-30.493	PASS
		2483.50	-62.540	-19.96	-42.580	PASS
		24988.8	-49.188	-19.96	-29.228	PASS
BLE 2M	0	2400.00	-30.970	-19.75	-11.220	PASS
		24975.7	-48.211	-19.75	-28.461	PASS
	19	24864.5	-49.623	-19.96	-29.663	PASS
		2483.50	-58.390	-20.72	-37.670	PASS
		24479.4	-50.248	-20.72	-29.528	PASS

Test Graphs





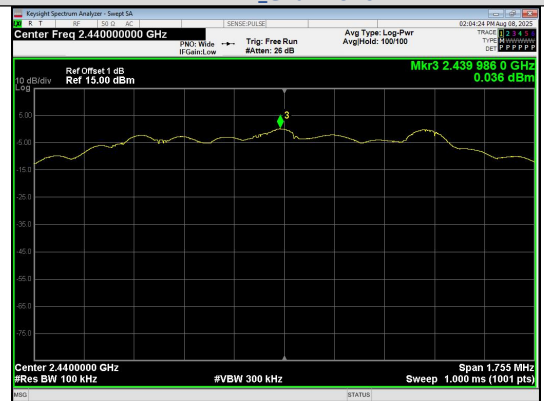
30.0 MHz - 25000.0 MHz
BLE 1M_Channel 0



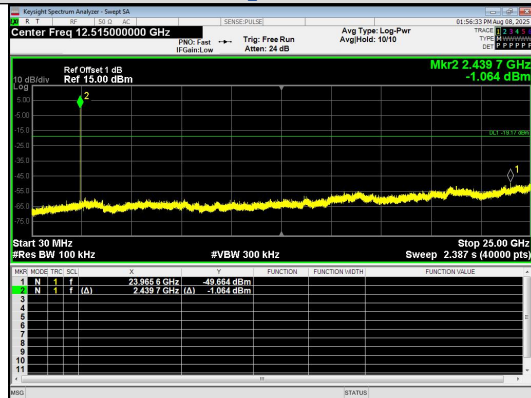
30.0 MHz - 25000.0 MHz
BLE 2M_Channel 0



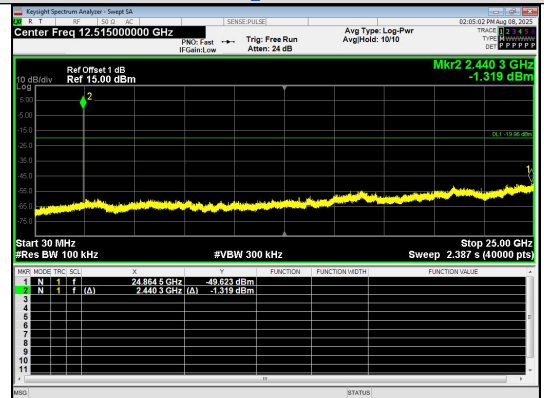
In-Band Reference Level
BLE 1M_Channel 19



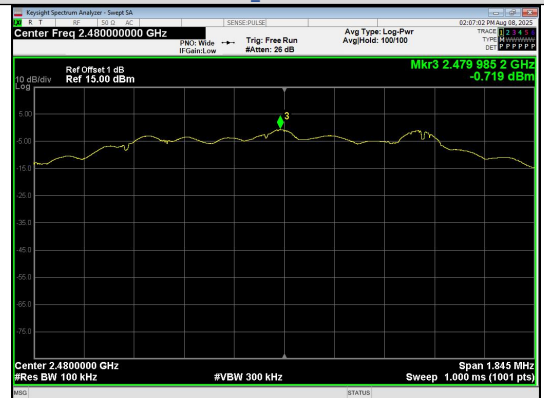
In-Band Reference Level
BLE 2M_Channel 19

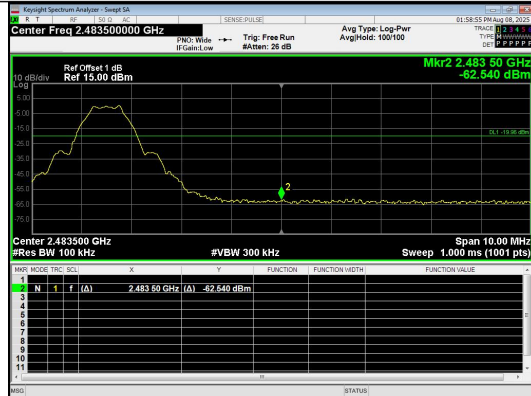
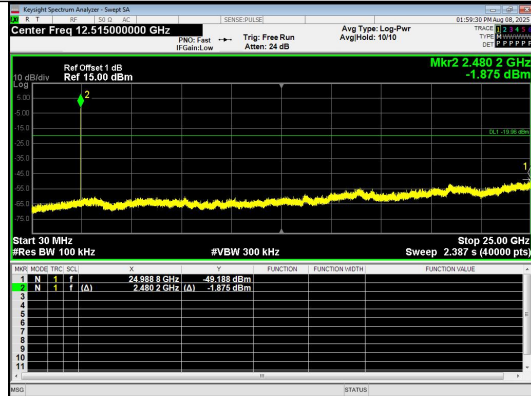
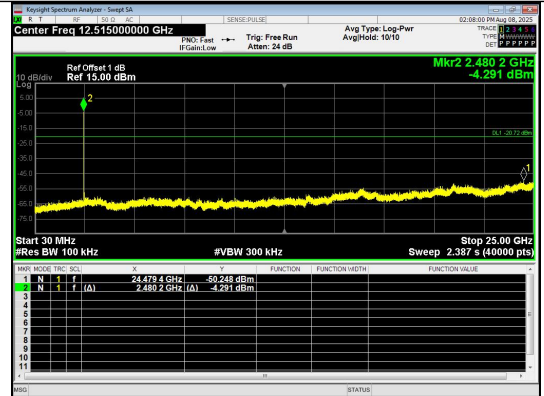


30.0 MHz - 25000.0 MHz
BLE 1M_Channel 19



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**



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	2.125	2.499	85.03	0.8503	0.7043	0.4706
BLE 2M	0	1.070	1.873	57.11	0.5711	2.4329	0.9346
	19	1.070	1.874	57.06	0.5706	2.4367	0.9346
	39	1.070	1.874	57.11	0.5711	2.4329	0.9346

Test Graphs



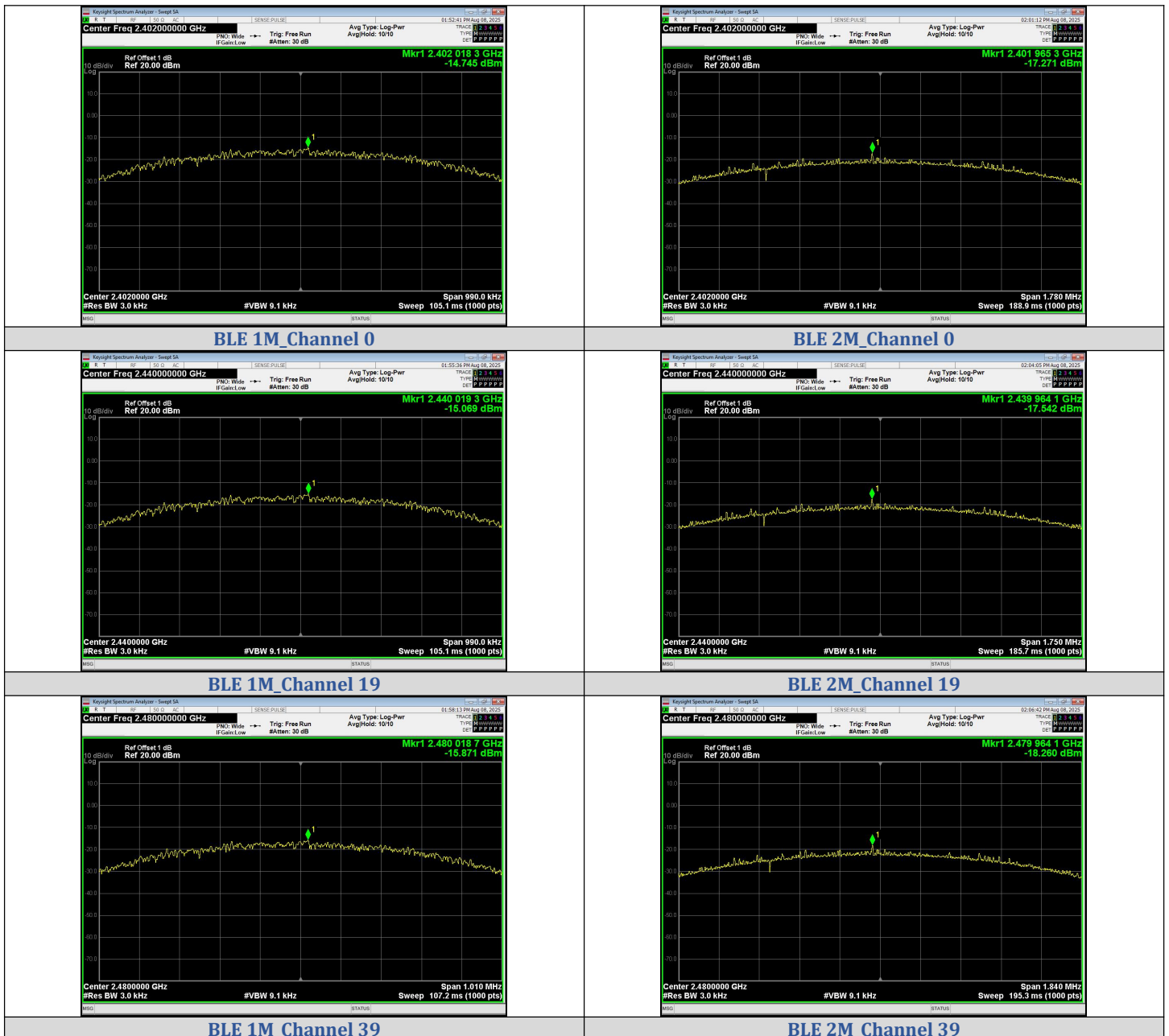


Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-14.740	≤8	PASS
BLE 1M	19	-15.070	≤8	PASS
BLE 1M	39	-15.870	≤8	PASS
BLE 2M	0	-17.270	≤8	PASS
BLE 2M	19	-17.540	≤8	PASS
BLE 2M	39	-18.260	≤8	PASS

Test Graphs



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