

Appendix A Conduction Data for BLE:

1. Conducted Peak Output Power

Test Result

Mode	Channel	Peak Output Power (dBm)	Peak Output Power Limit (dBm)	Result
BLE 1M	0	1.70	≤ 30	PASS
	19	0.22	≤ 30	PASS
	39	0.73	≤ 30	PASS
BLE 2M	0	1.79	≤ 30	PASS
	19	0.70	≤ 30	PASS
	39	0.74	≤ 30	PASS

2.Duty Cycle

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
BLE 1M	0	2.140	2.499	85.62	0.8562	0.6742
	19	2.140	2.499	85.62	0.8562	0.6742
	39	2.140	2.499	85.62	0.8562	0.6742
BLE 2M	0	1.074	1.874	57.28	0.5728	2.42
	19	1.074	1.874	57.28	0.5728	2.42
	39	1.074	1.874	57.28	0.5728	2.42

Test Graphs

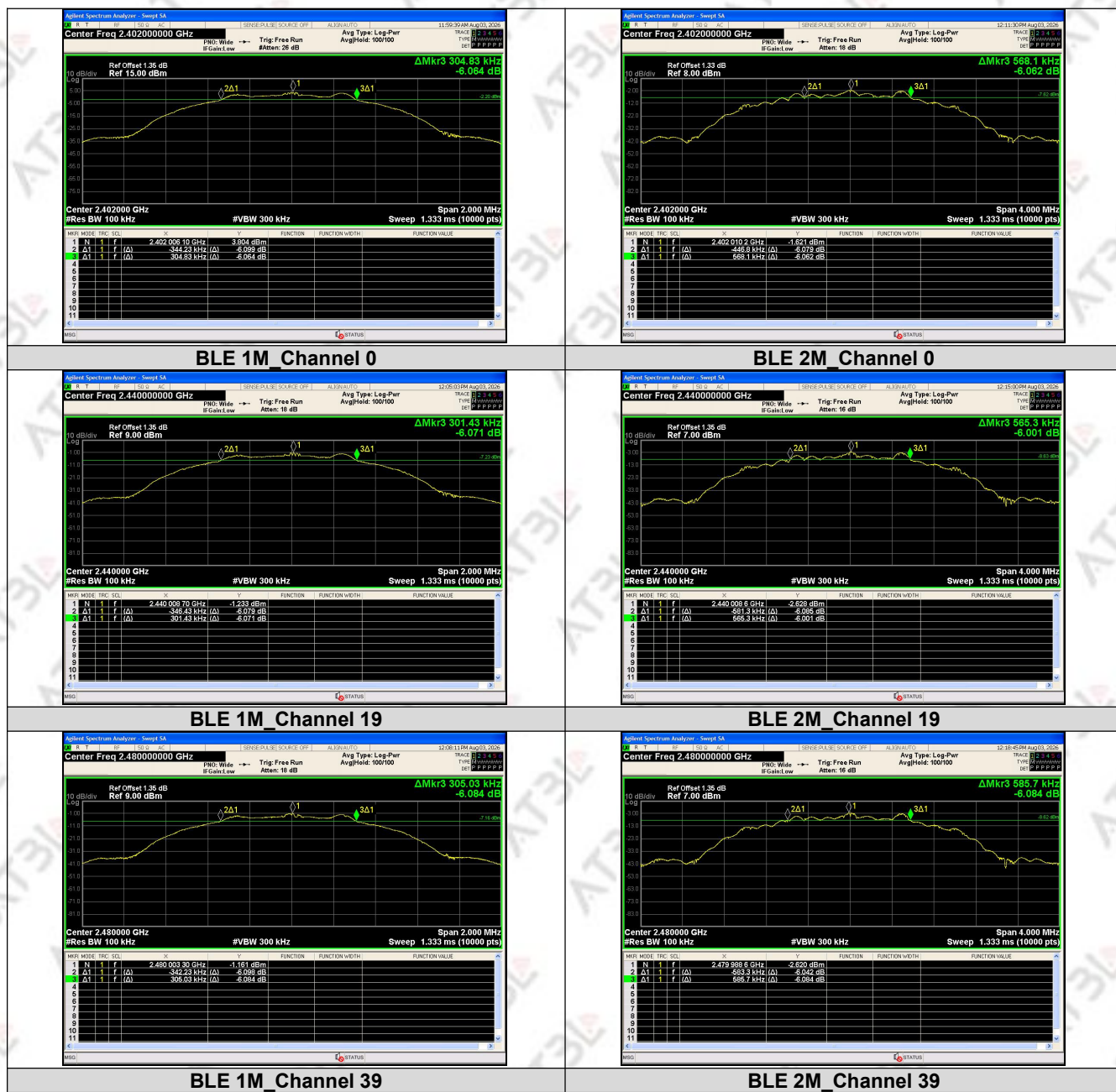


3.6dB Bandwidth and 99% Bandwidth

Test Result

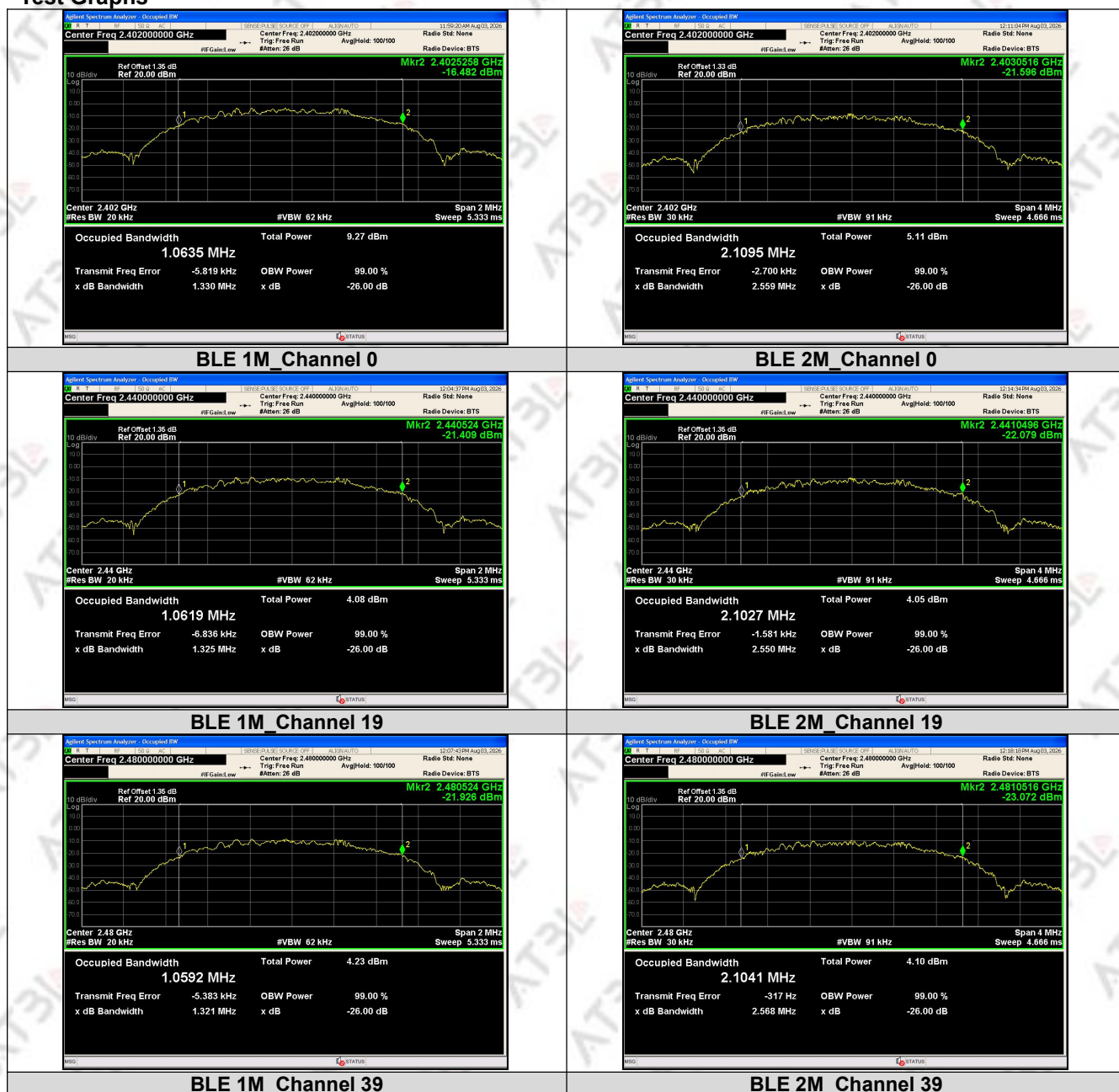
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.65	≥0.5	PASS
	19	2440	0.65		PASS
	39	2480	0.65		PASS
BLE 2M	0	2404	1.02		PASS
	19	2440	1.14		PASS
	39	2478	1.16		PASS

Test Graphs



Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0635
BLE 1M	19	2440	1.0619
BLE 1M	39	2480	1.0592
BLE 2M	0	2404	2.1095
BLE 2M	19	2440	2.1027
BLE 2M	39	2478	2.1041

Test Graphs

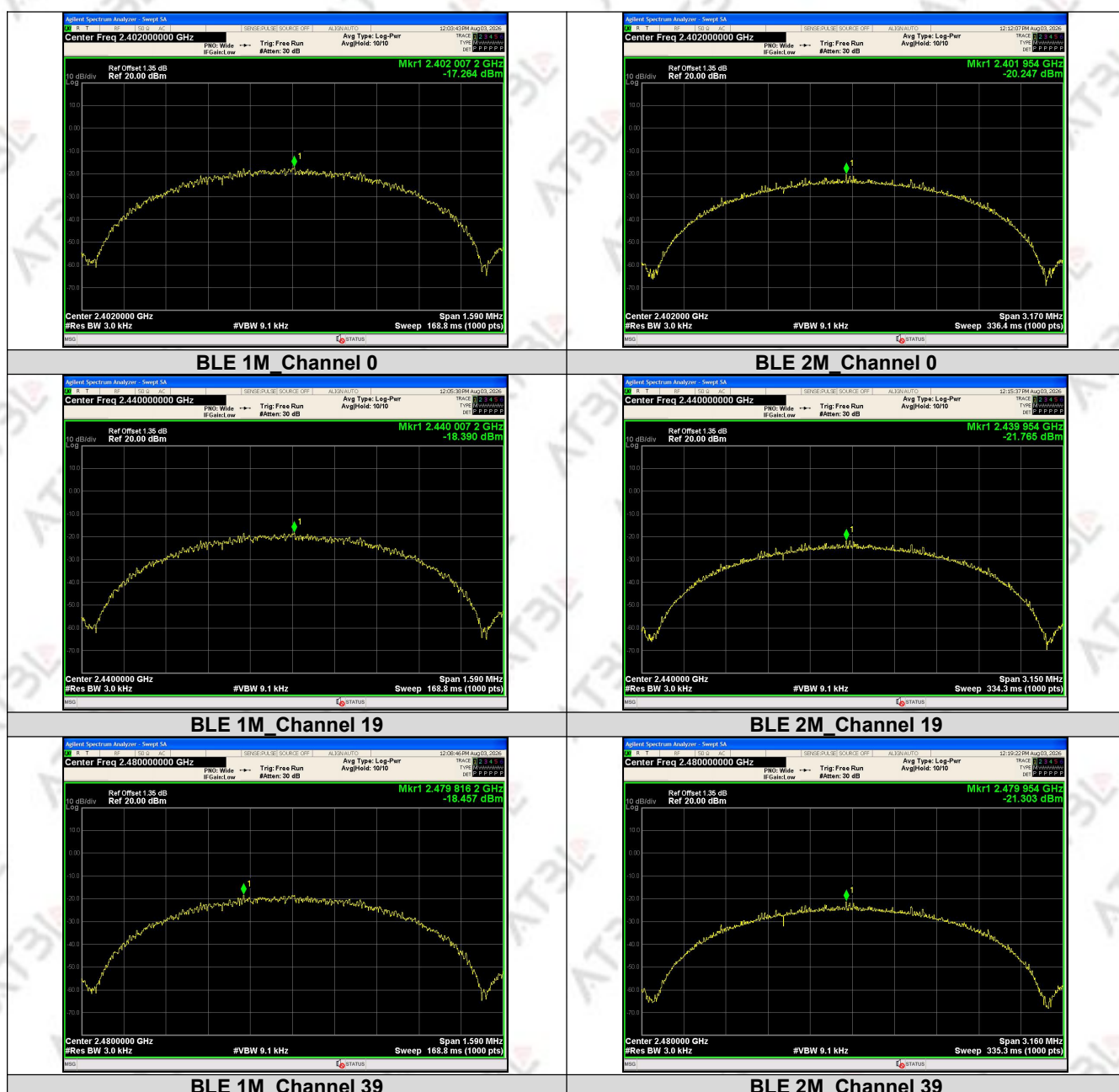


4.Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-17.26	≤8	PASS
BLE 1M	19	-18.39	≤8	PASS
BLE 1M	39	-18.46	≤8	PASS
BLE 2M	0	-20.25	≤8	PASS
BLE 2M	19	-21.77	≤8	PASS
BLE 2M	39	-21.30	≤8	PASS

Test Graphs



5. Conducted Spurious & Band Edge Emission

Test Result

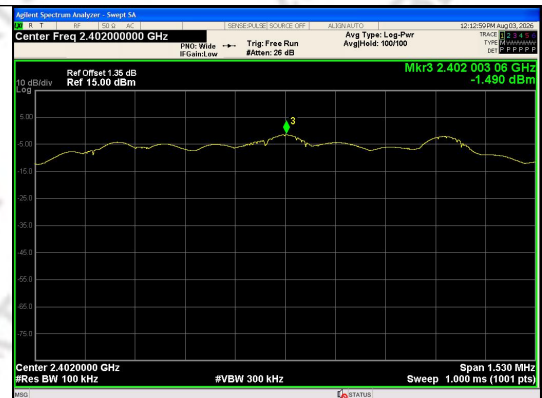
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2399.00	-57.959	-16.17	-41.789	PASS
		2400.00	-58.517	-16.17	-42.347	PASS
		5747.50	-44.063	-16.17	-27.893	PASS
	19	5746.26	-43.867	-21.23	-22.637	PASS
	39	2483.50	-60.517	-21.2	-39.317	PASS
		5759.99	-43.603	-21.2	-22.403	PASS
BLE 2M	0	2400.00	-41.966	-21.49	-20.476	PASS
		5769.98	-43.760	-21.49	-22.270	PASS
	19	5772.48	-44.303	-22.59	-21.713	PASS
	39	1923.35	-41.625	-22.53	-19.095	PASS
		2483.50	-60.375	-22.53	-37.845	PASS

Note: input compensation coefficient (dB)= Cable Loss (dB)

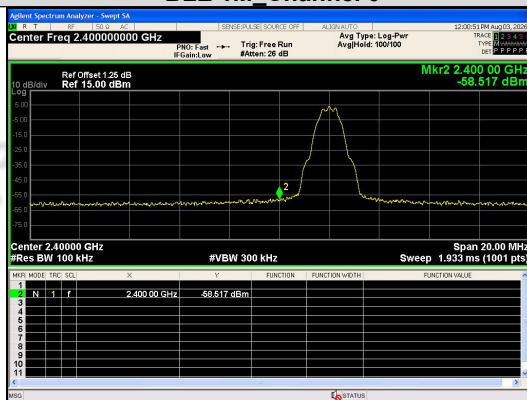
Test Graphs



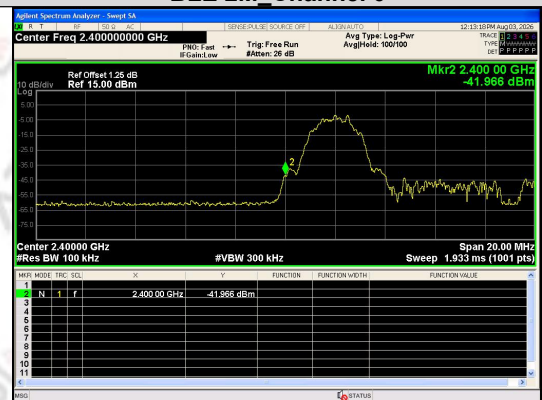
**In-Band Reference Level
BLE 1M Channel 0**



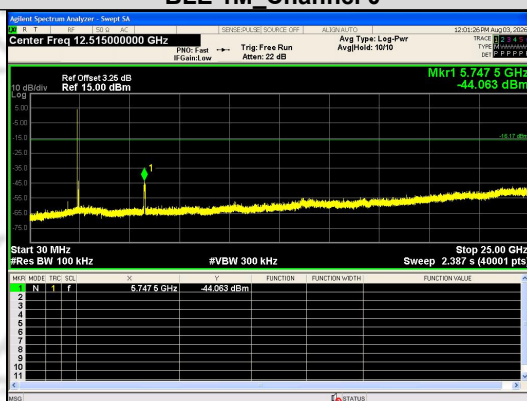
**In-Band Reference Level
BLE 2M Channel 0**



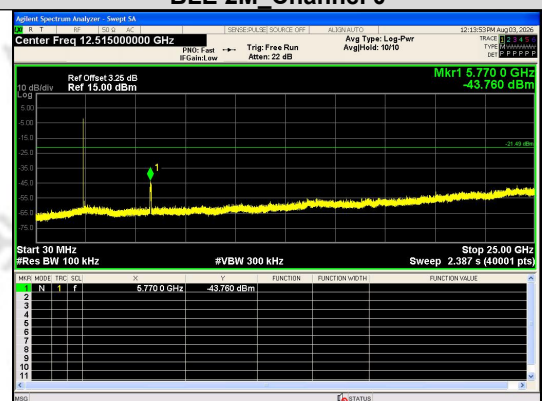
**Out Of Band Emission
BLE 1M Channel 0**



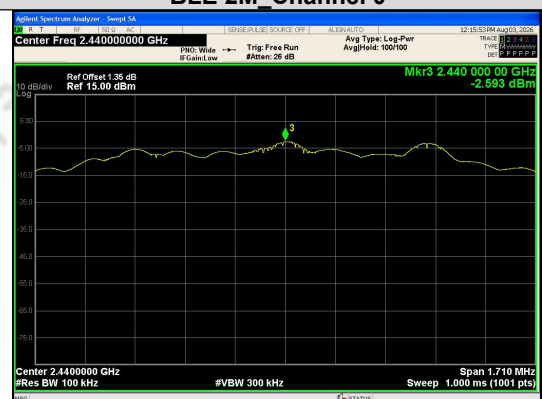
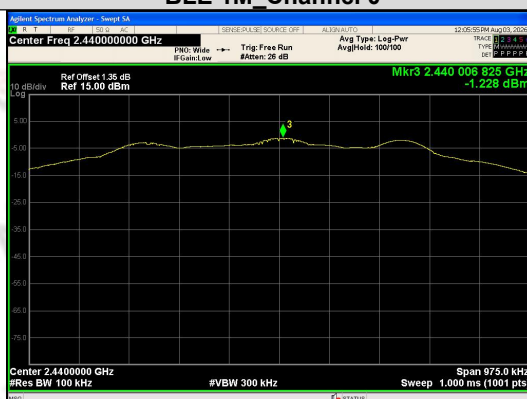
**Out Of Band Emission
BLE 2M Channel 0**



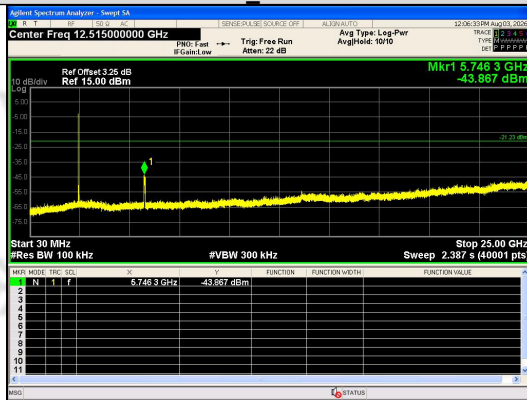
**30.0 MHz - 25000.0 MHz
BLE 1M Channel 0**



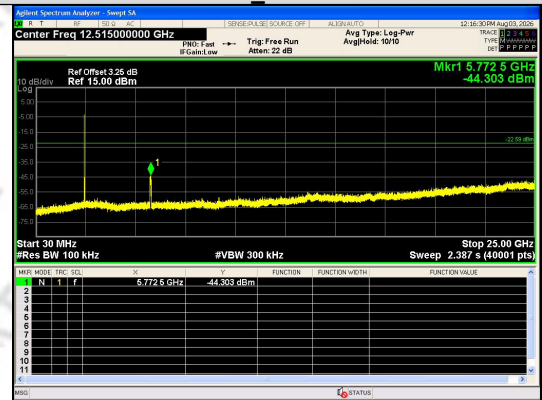
**30.0 MHz - 25000.0 MHz
BLE 2M Channel 0**



In-Band Reference Level BLE 1M_Channel 19



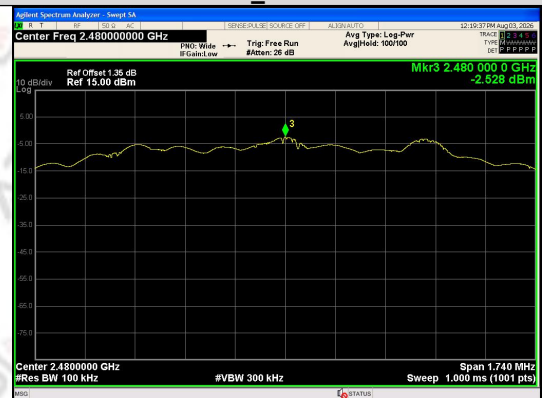
In-Band Reference Level BLE 2M_Channel 19



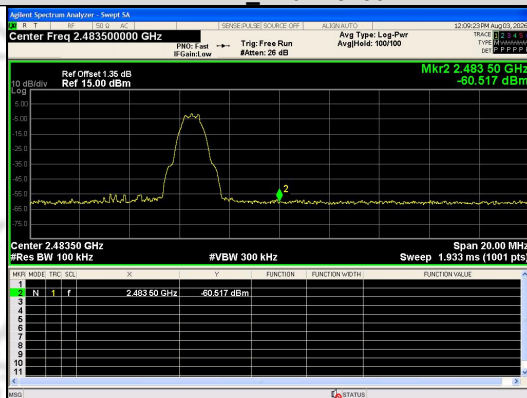
30.0 MHz - 25000.0 MHz BLE 1M_Channel 19



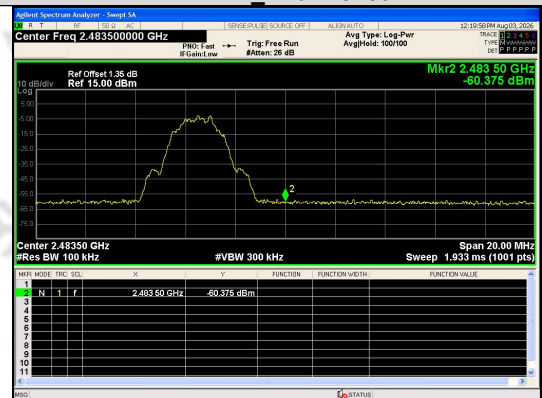
30.0 MHz - 25000.0 MHz BLE 2M_Channel 19



In-Band Reference Level BLE 1M_Channel 39

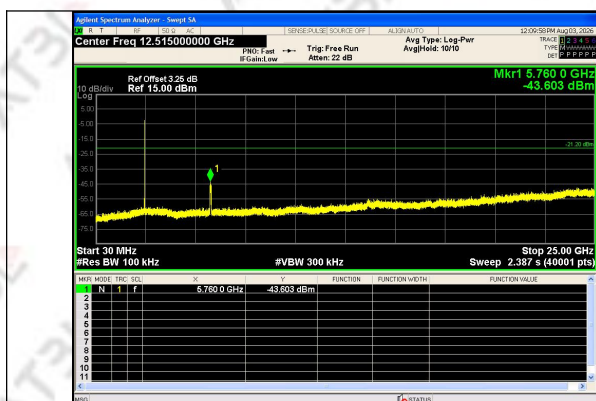


In-Band Reference Level BLE 2M_Channel 39

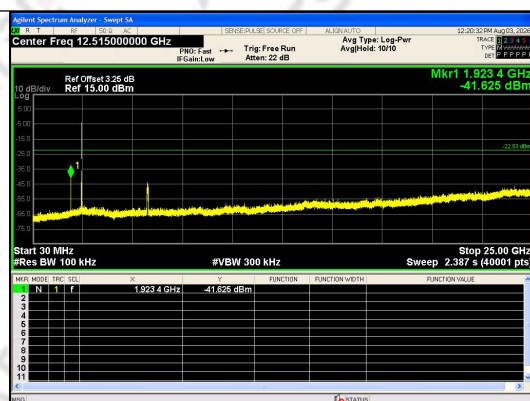


Out Of Band Emission BLE 1M_Channel 39

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

*****END*****