

## Appendix - BLE

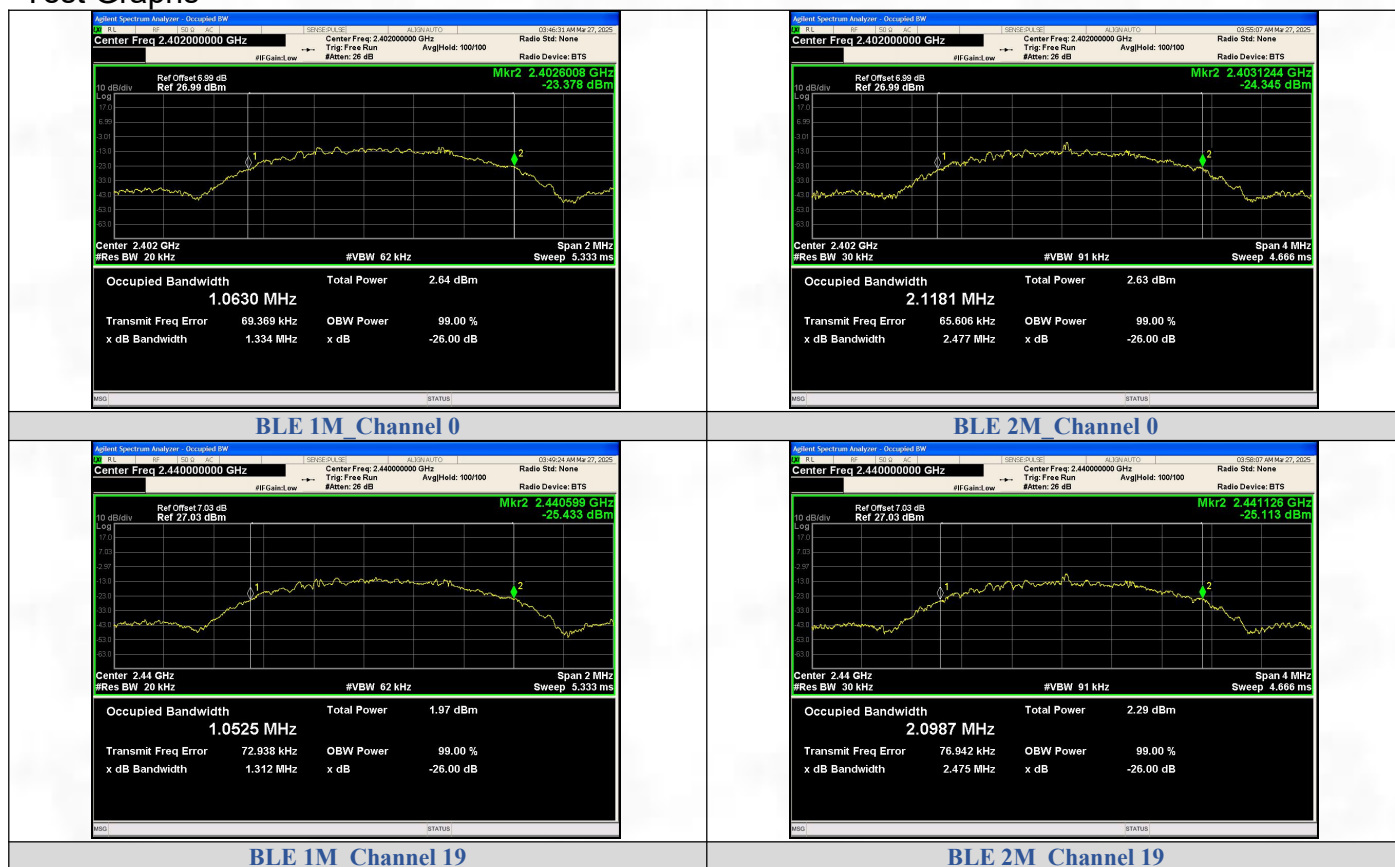
### 1. Occupied Bandwidth

#### 1.1 Test Result

##### 1.1.1 99% Bandwidth

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0630
	19	2440	1.0525
	39	2480	1.0492
BLE 2M	0	2402	2.1181
	19	2440	2.0987
	39	2480	2.0989

#### Test Graphs

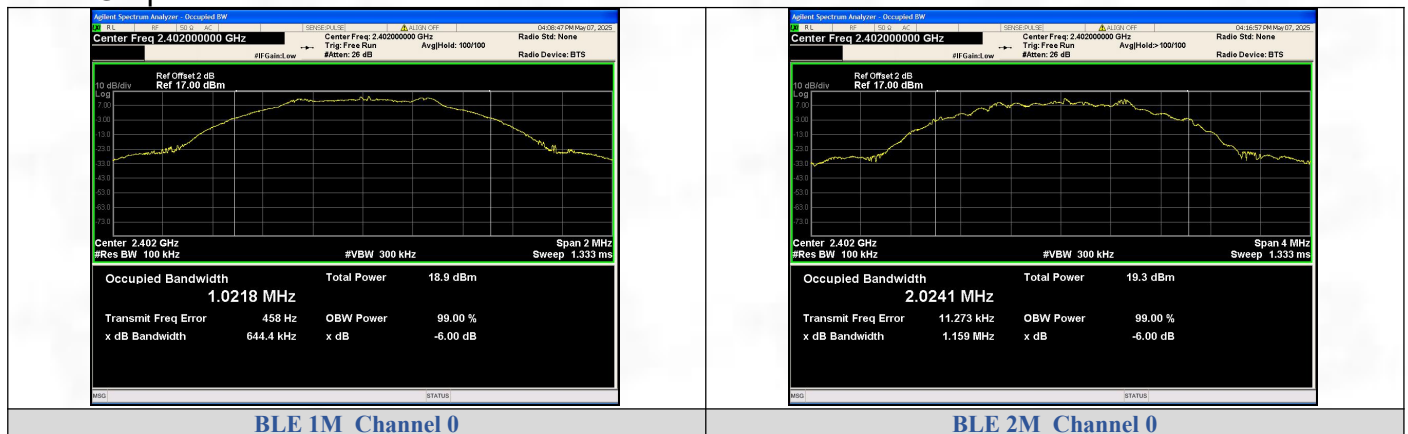


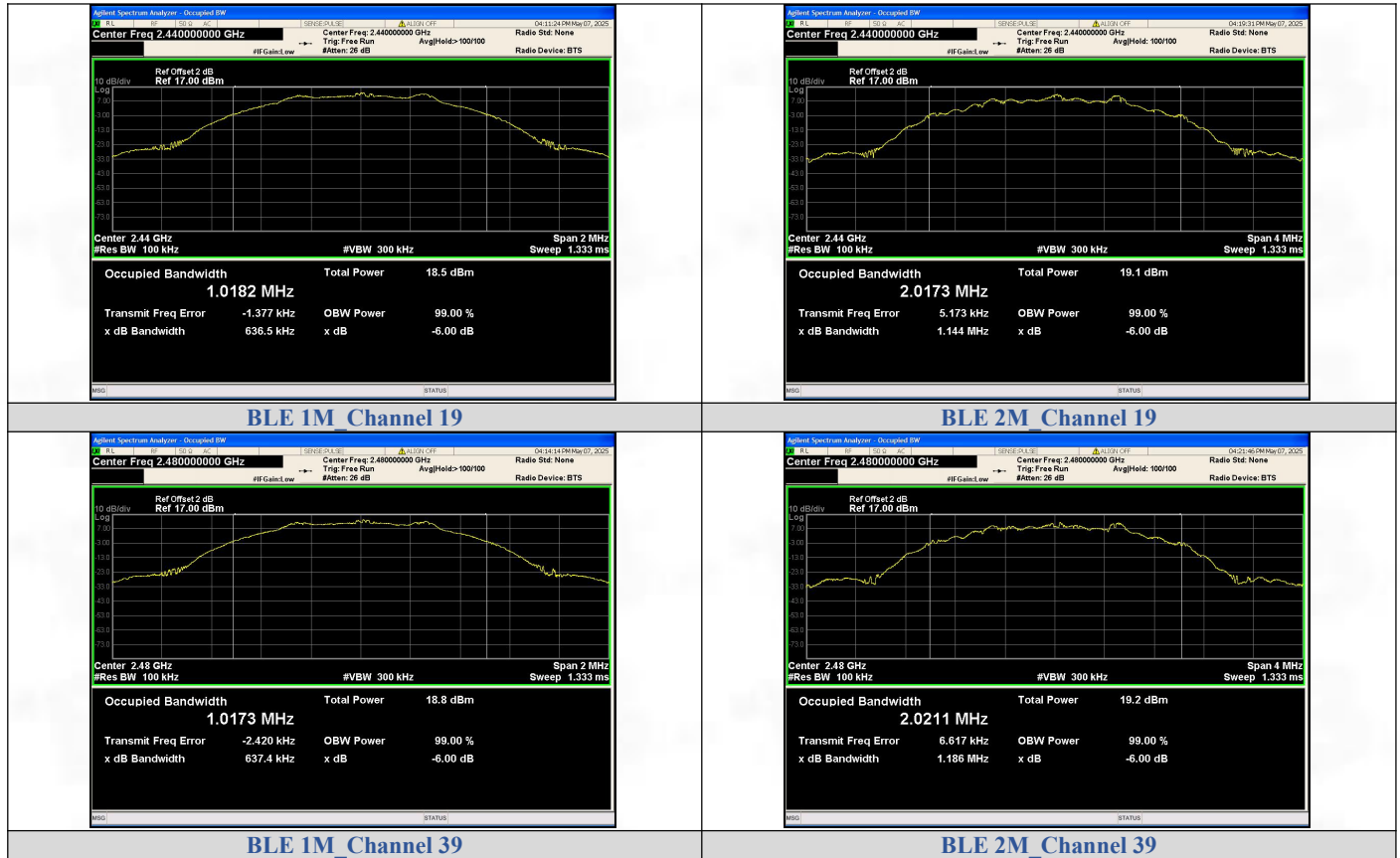


### 1.1.2 6dB Bandwidth

Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.6444	$\geq 0.5$	PASS
	19	2440	0.6365		PASS
	39	2480	0.6374		PASS
BLE 2M	0	2402	1.159		PASS
	19	2440	1.144		PASS
	39	2480	1.186		PASS

### Test Graphs





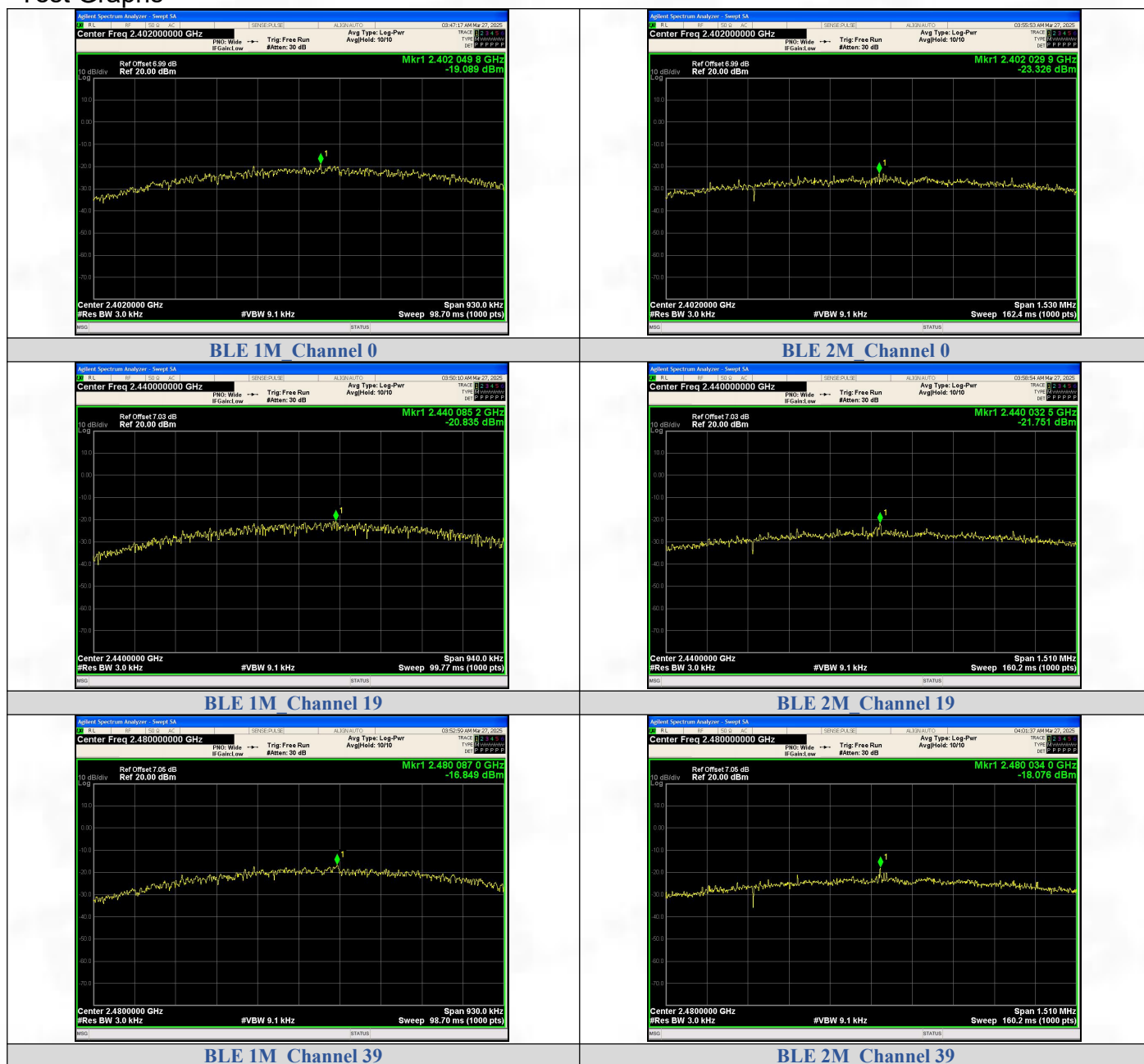
### 1.1.3 Maximum Conducted Output Power

Mode	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
BLE 1M	0	-3.49	0.45	≤30	PASS
	19	-3.98	0.4	≤30	PASS
	39	-1.22	0.75	≤30	PASS
BLE 2M	0	-3.42	0.46	≤30	PASS
	19	-3.85	0.41	≤30	PASS
	39	-1.20	0.76	≤30	PASS

## 1.1.4 Power Spectral Density

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-19.089	≤8	PASS
	19	-20.835	≤8	PASS
	39	-16.849	≤8	PASS
BLE 2M	0	-23.326	≤8	PASS
	19	-21.751	≤8	PASS
	39	-18.076	≤8	PASS

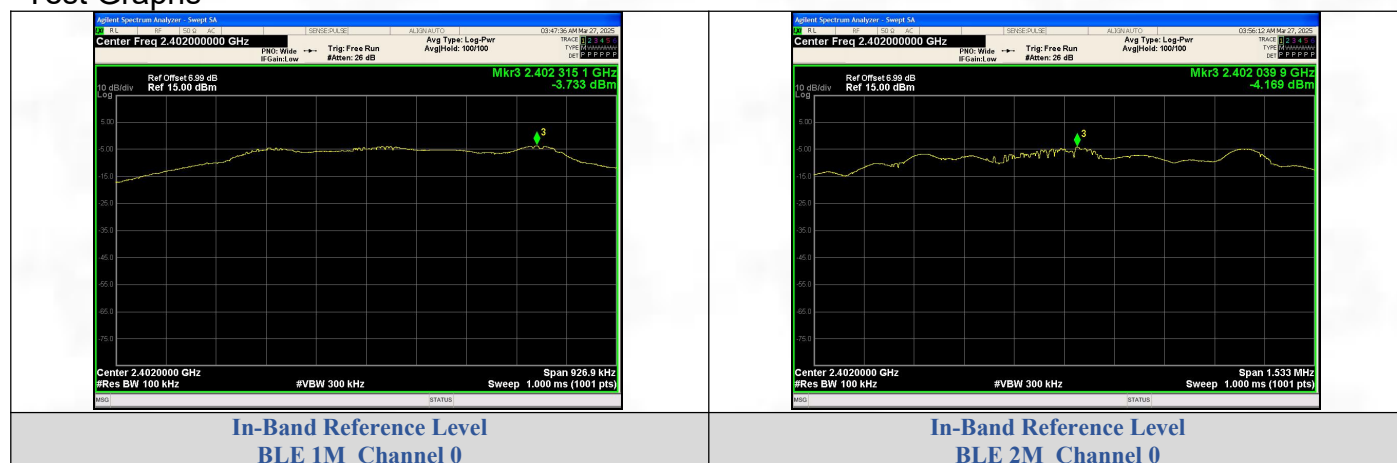
## Test Graphs

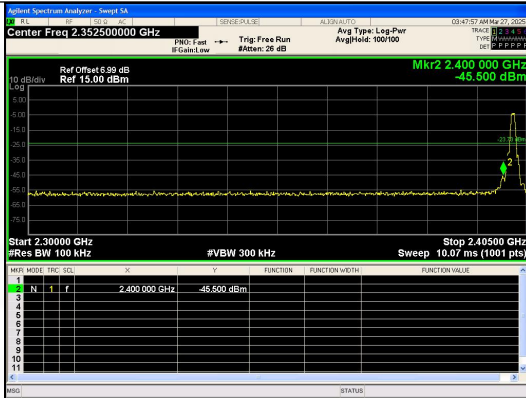


### 1.1.5 Emissions in non-restricted frequency bands

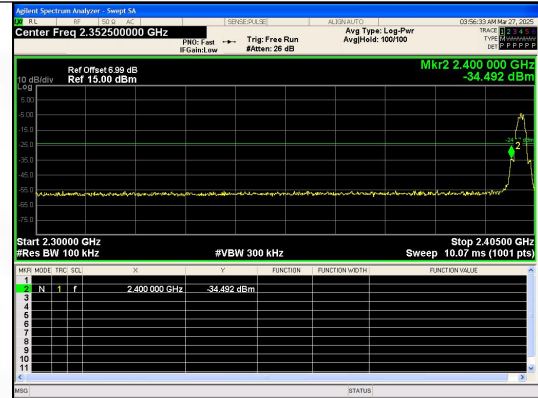
Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
BLE 1M	0	2400.00	-45.500	-23.73	-21.770	PASS
		4803.64	-68.760	-23.73	-45.030	PASS
		7205.75	-65.611	-23.73	-41.881	PASS
		9607.24	-69.521	-23.73	-45.791	PASS
		24856.4	-52.824	-23.73	-29.094	PASS
	19	4880.42	-67.525	-24.1	-43.425	PASS
		7319.37	-66.297	-24.1	-42.197	PASS
		9760.18	-70.296	-24.1	-46.196	PASS
		24843.3	-53.509	-24.1	-29.409	PASS
	39	2483.50	-54.560	-21.33	-33.230	PASS
		4959.70	-67.300	-21.33	-45.970	PASS
		7441.10	-64.559	-21.33	-43.229	PASS
		9919.99	-68.927	-21.33	-47.597	PASS
		24910.7	-52.978	-21.33	-31.648	PASS
BLE 2M	0	2400.00	-34.492	-24.17	-10.322	PASS
		4804.26	-68.856	-24.17	-44.686	PASS
		7205.13	-65.335	-24.17	-41.165	PASS
		9607.24	-68.758	-24.17	-44.588	PASS
		24843.3	-54.301	-24.17	-30.131	PASS
	19	4879.17	-66.811	-24.53	-42.281	PASS
		5185.68	-52.783	-24.53	-28.253	PASS
		7320.62	-66.638	-24.53	-42.108	PASS
		9760.81	-69.570	-24.53	-45.040	PASS
	39	2483.50	-54.037	-21.87	-32.167	PASS
		4960.95	-69.211	-21.87	-47.341	PASS
		7438.60	-68.429	-21.87	-46.559	PASS
		9921.24	-68.882	-21.87	-47.012	PASS
		24252.8	-53.751	-21.87	-31.881	PASS

### Test Graphs

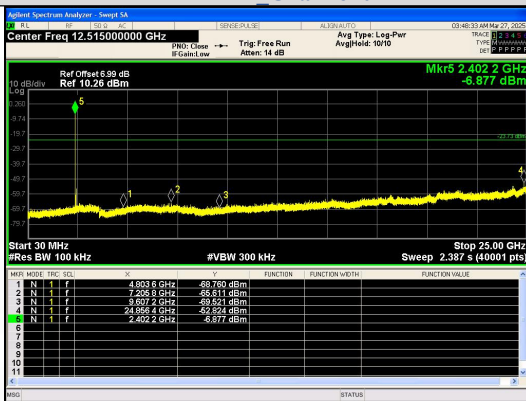




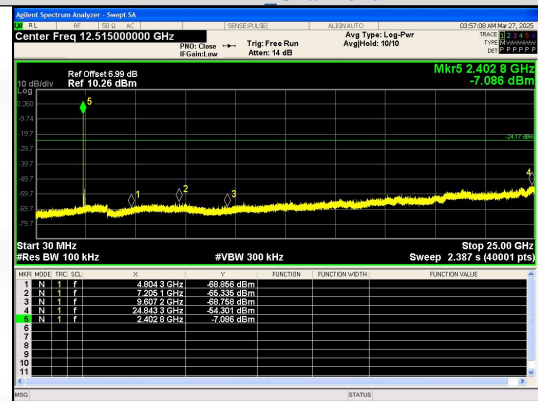
Out Of Band Emission  
BLE 1M Channel 0



Out Of Band Emission  
BLE 2M Channel 0



30.0 MHz - 25000.0 MHz  
BLE 1M Channel 0



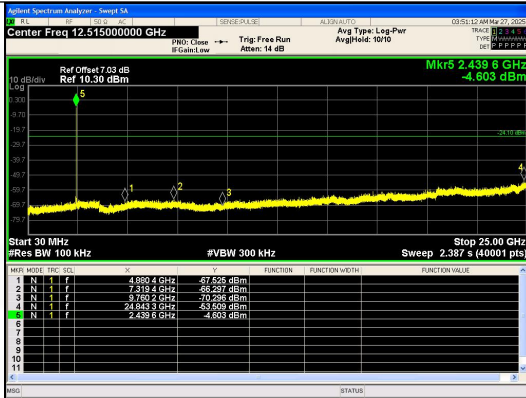
30.0 MHz - 25000.0 MHz  
BLE 2M Channel 0



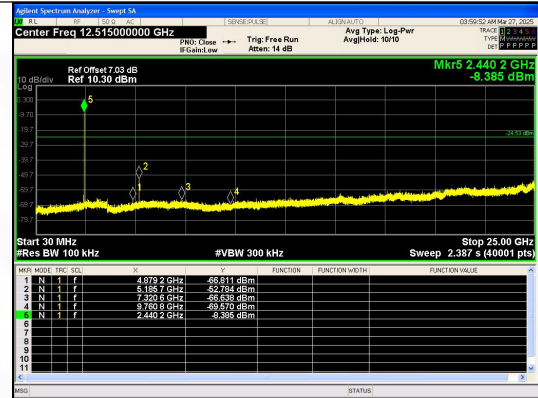
In-Band Reference Level  
BLE 1M Channel 19



In-Band Reference Level  
BLE 2M Channel 19



30.0 MHz - 25000.0 MHz  
BLE 1M Channel 19



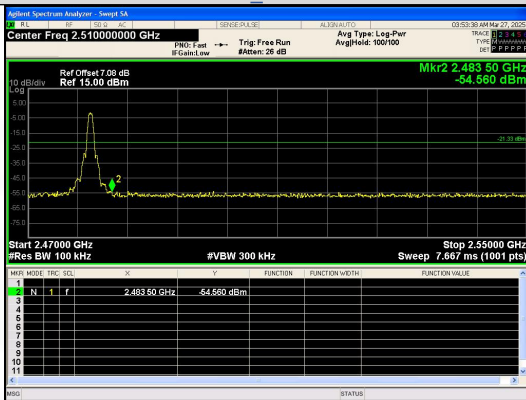
30.0 MHz - 25000.0 MHz  
BLE 2M Channel 19



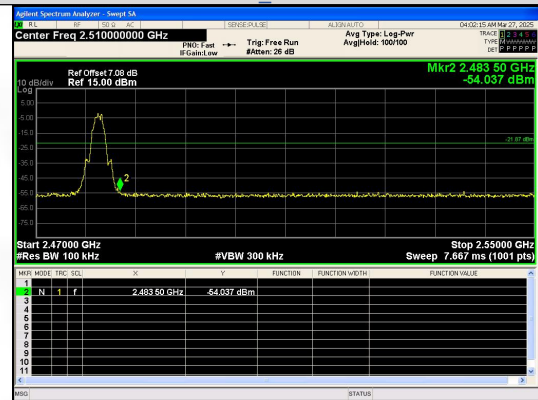
In-Band Reference Level  
BLE 1M Channel 39



In-Band Reference Level  
BLE 2M Channel 39

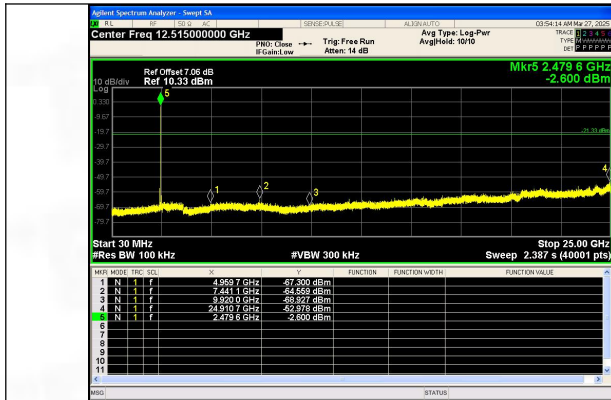


Out Of Band Emission  
BLE 1M Channel 39

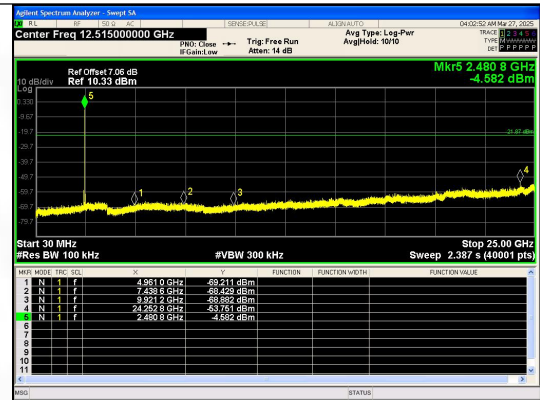


Out Of Band Emission  
BLE 2M Channel 39





30.0 MHz - 25000.0 MHz  
BLE 1M\_Channel 39



30.0 MHz - 25000.0 MHz  
BLE 2M\_Channel 39