

Environmental Conditions

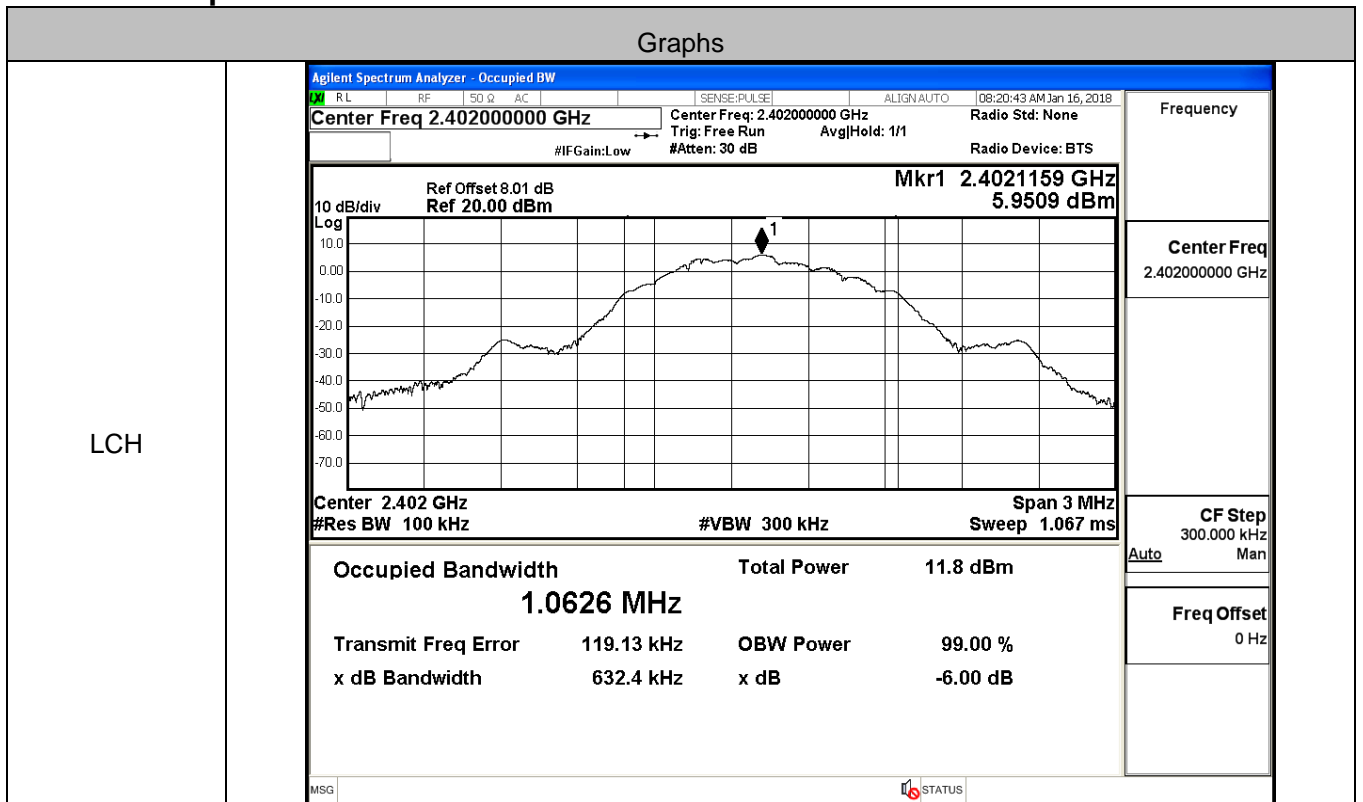
Temperature:	24.6 °C
Relative Humidity:	48%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Tom.Liu

Appendix A): 6dB Bandwidth

Test Result

Mode	Channel	6dB Bandwidth [MHz]	Verdict
BLE	LCH	0.6324	PASS
BLE	MCH	0.6412	PASS
BLE	HCH	0.6299	PASS

Test Graphs



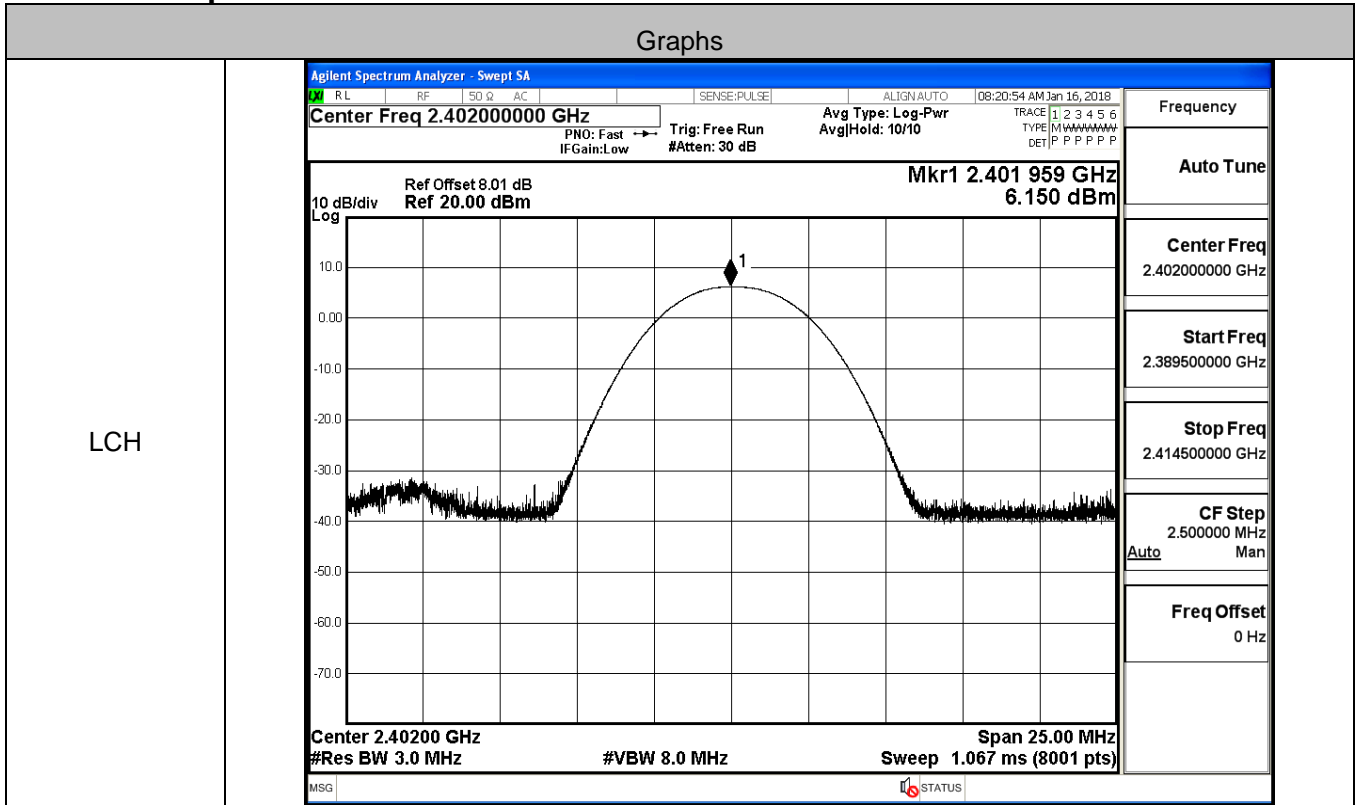
<p>MCH</p>		<p>Frequency 2.440000000 GHz</p> <p>Center Freq 2.440000000 GHz</p> <p>CF Step 300.000 kHz Auto Man</p> <p>Freq Offset 0 Hz</p>
<p>HCH</p>		<p>Frequency 2.480000000 GHz</p> <p>Center Freq 2.480000000 GHz</p> <p>CF Step 300.000 kHz Auto Man</p> <p>Freq Offset 0 Hz</p>

Appendix B): Conducted Peak Output Power

Test Result

Mode	Channel	Conduct Peak Power[dBm]	Verdict
BLE	LCH	6.15	PASS
BLE	MCH	6.894	PASS
BLE	HCH	8.3	PASS

Test Graphs



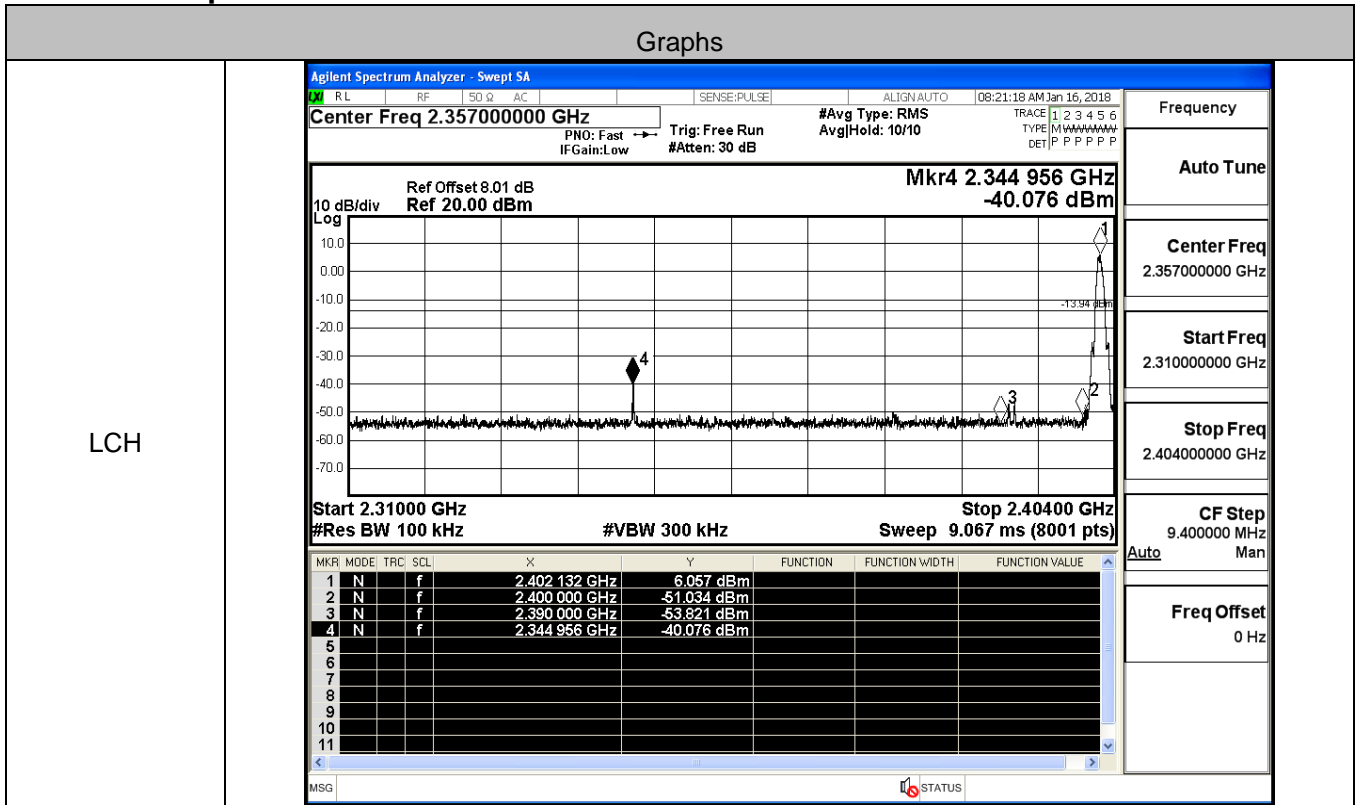
<p>MCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.44000000 GHz</p> <p>Ref Offset 8.01 dB Ref 20.00 dBm</p> <p>Mkr1 2.440 244 GHz 6.894 dBm</p> <p>10 dB/div Log</p> <p>Center 2.44000 GHz #Res BW 3.0 MHz #VBW 8.0 MHz Sweep 1.067 ms (8001 pts)</p> <p>Span 25.00 MHz</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.440000000 GHz</p> <p>Start Freq 2.427500000 GHz</p> <p>Stop Freq 2.452500000 GHz</p> <p>CF Step 2.500000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
<p>HCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.48000000 GHz</p> <p>Ref Offset 8.01 dB Ref 20.00 dBm</p> <p>Mkr1 2.480 063 GHz 8.300 dBm</p> <p>10 dB/div Log</p> <p>Center 2.48000 GHz #Res BW 3.0 MHz #VBW 8.0 MHz Sweep 1.067 ms (8001 pts)</p> <p>Span 25.00 MHz</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.480000000 GHz</p> <p>Start Freq 2.467500000 GHz</p> <p>Stop Freq 2.492500000 GHz</p> <p>CF Step 2.500000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>

Appendix C): Band-edge for RF Conducted Emissions

Result Table

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	LCH	6.057	-40.076	-13.94	PASS
BLE	HCH	8.135	-50.105	-11.87	PASS

Test Graphs

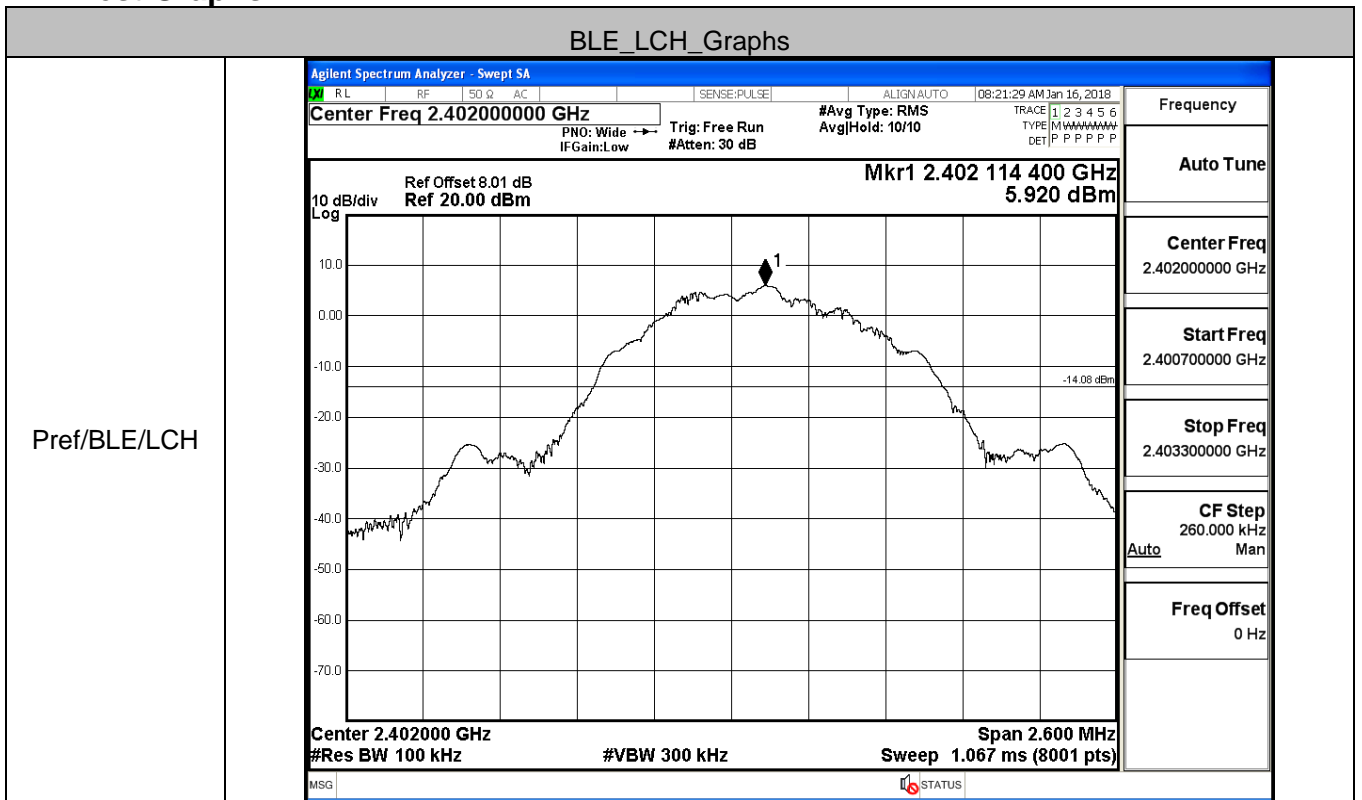


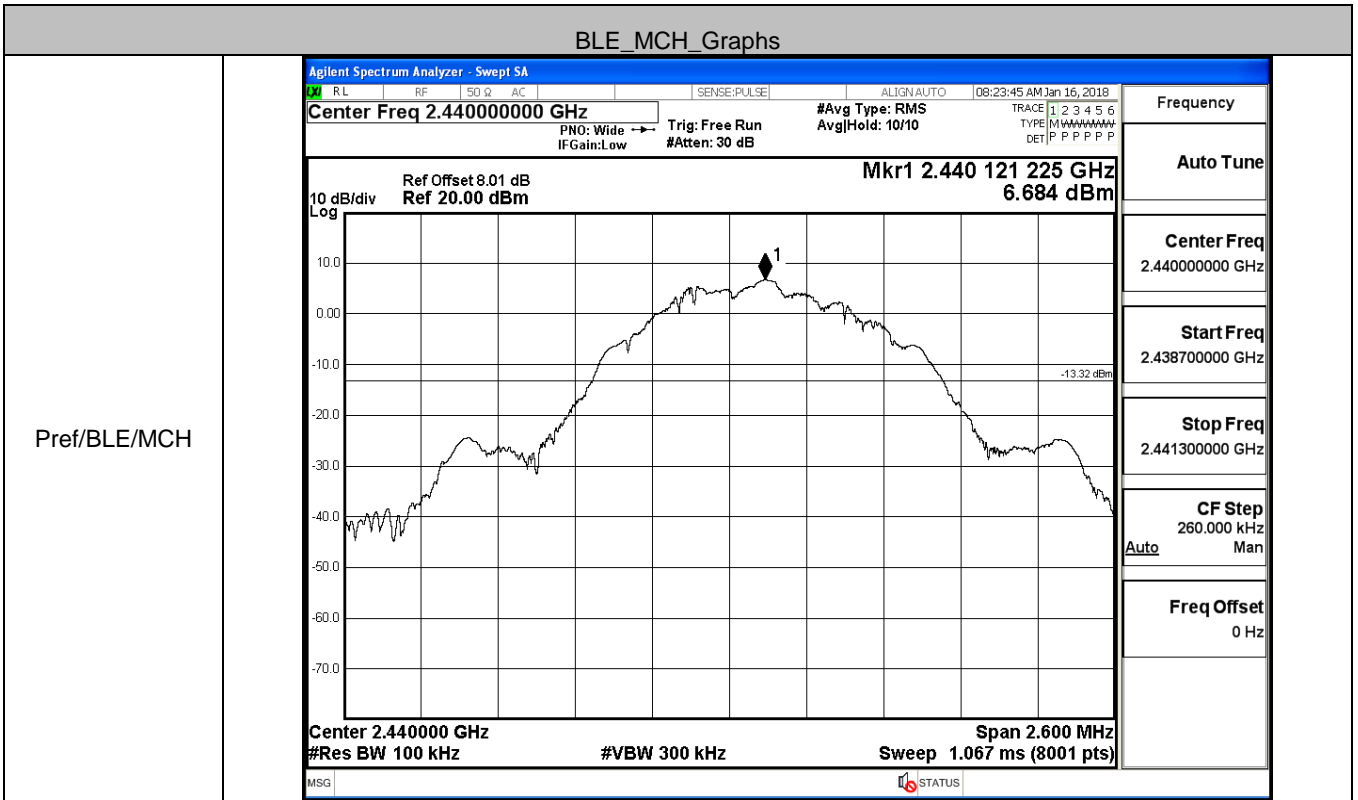
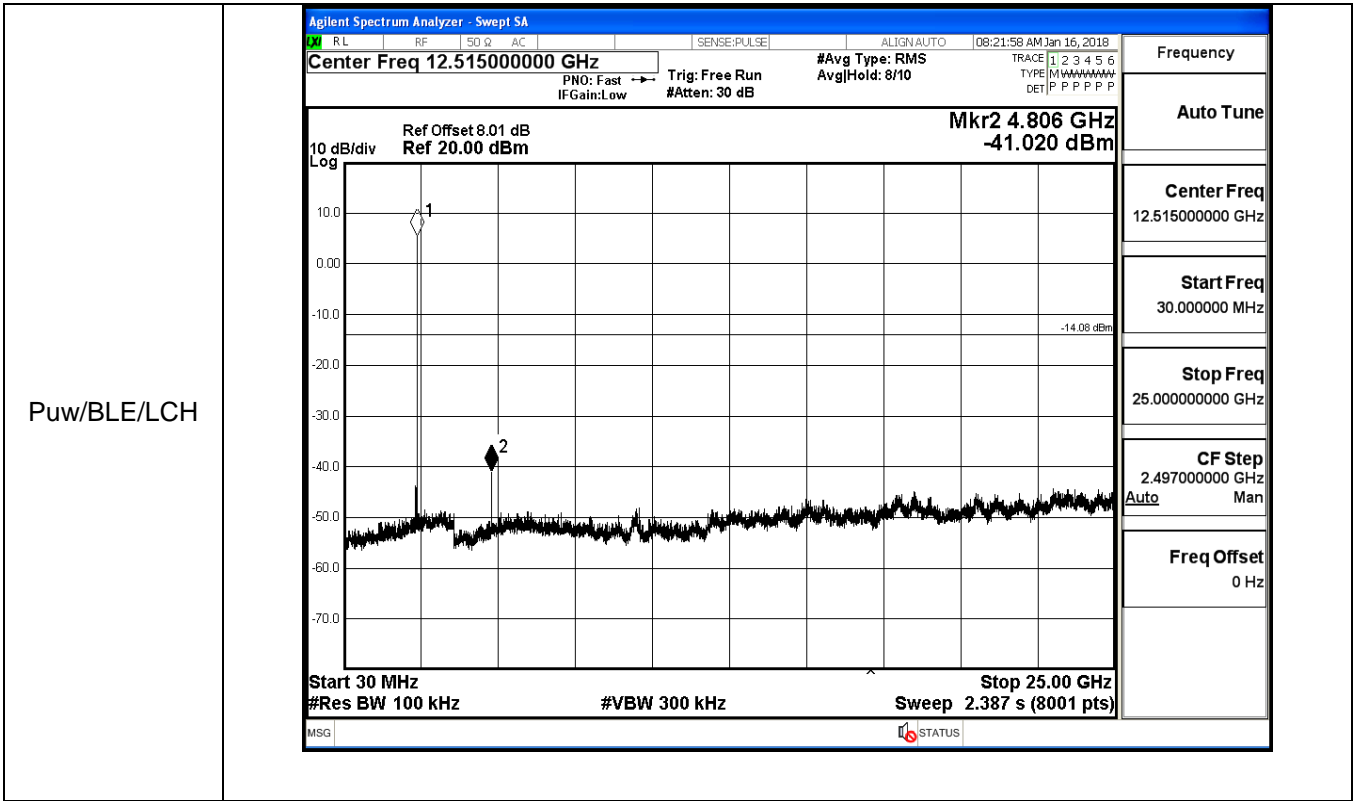
Appendix D): RF Conducted Spurious Emissions

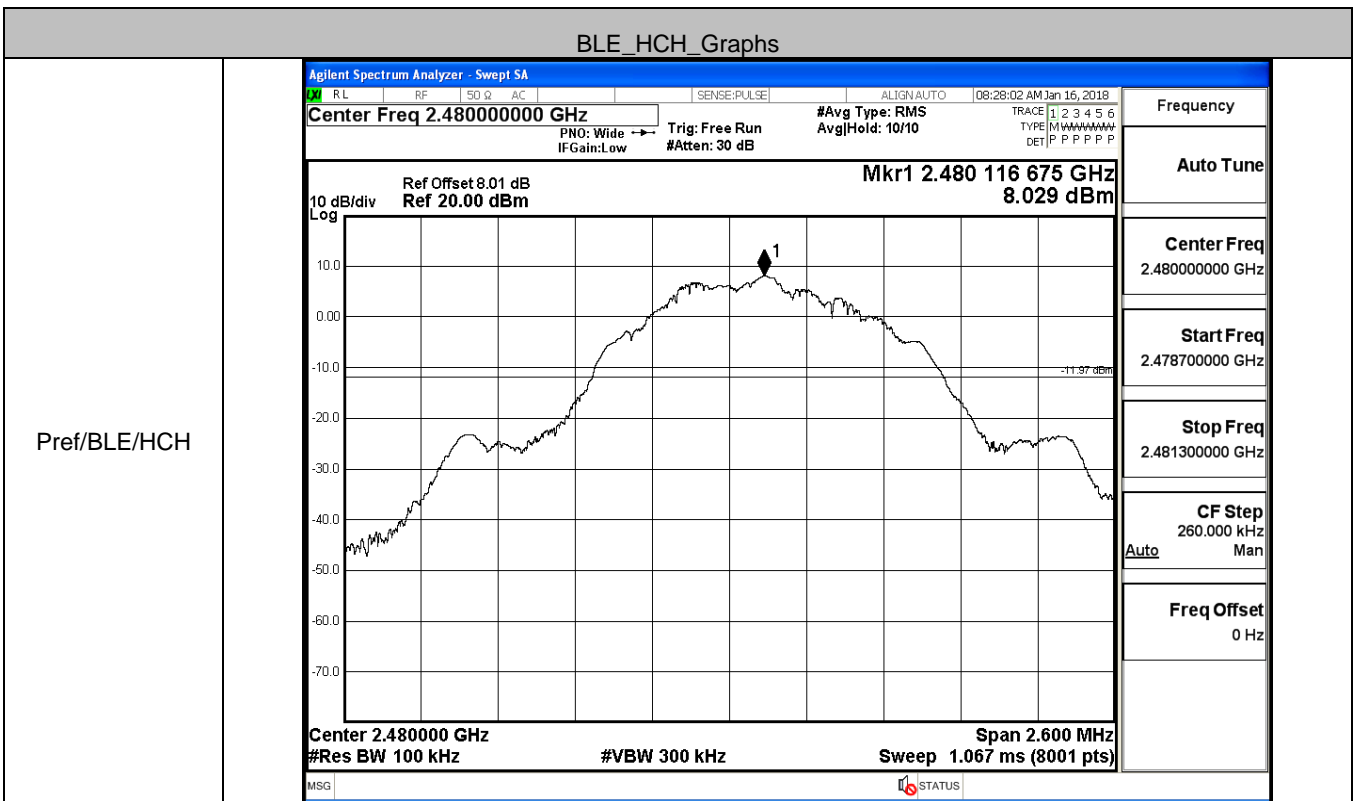
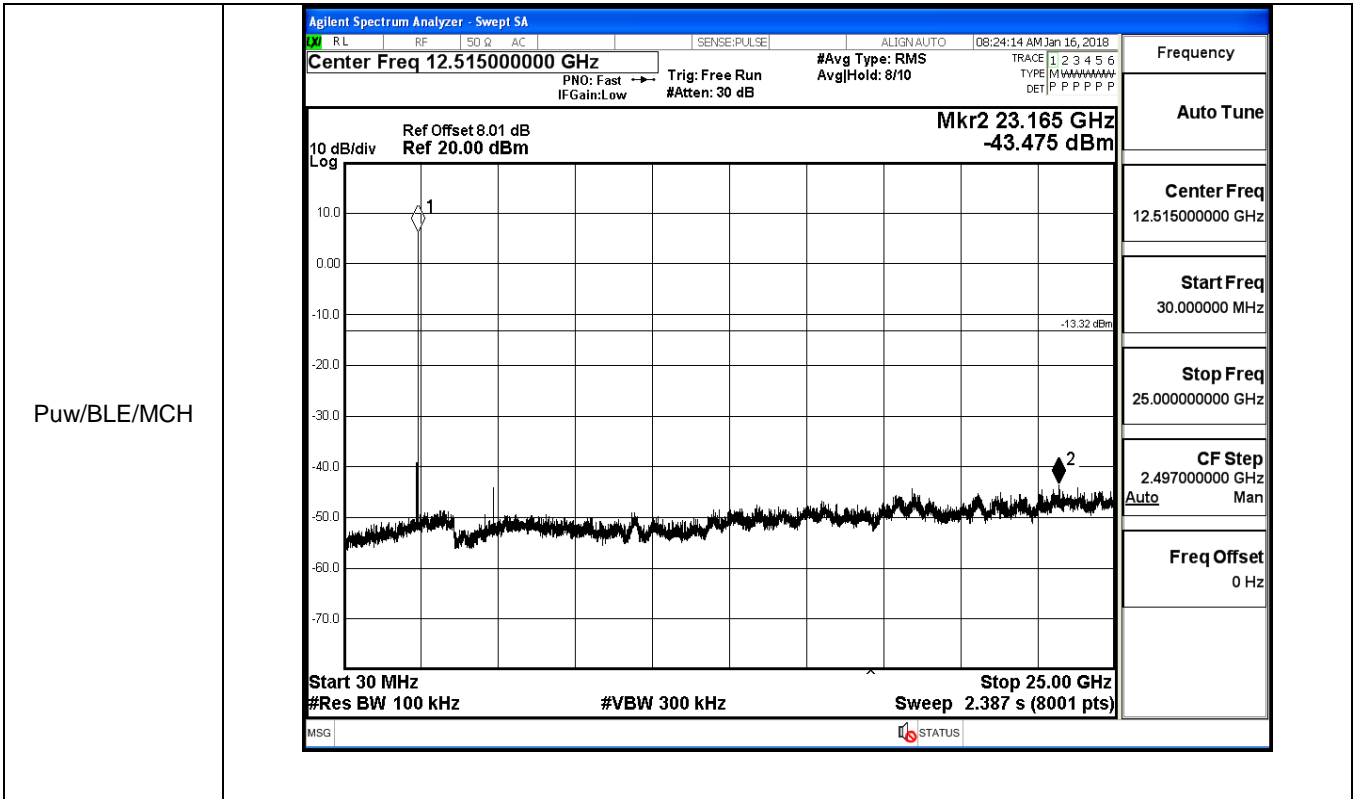
Result Table

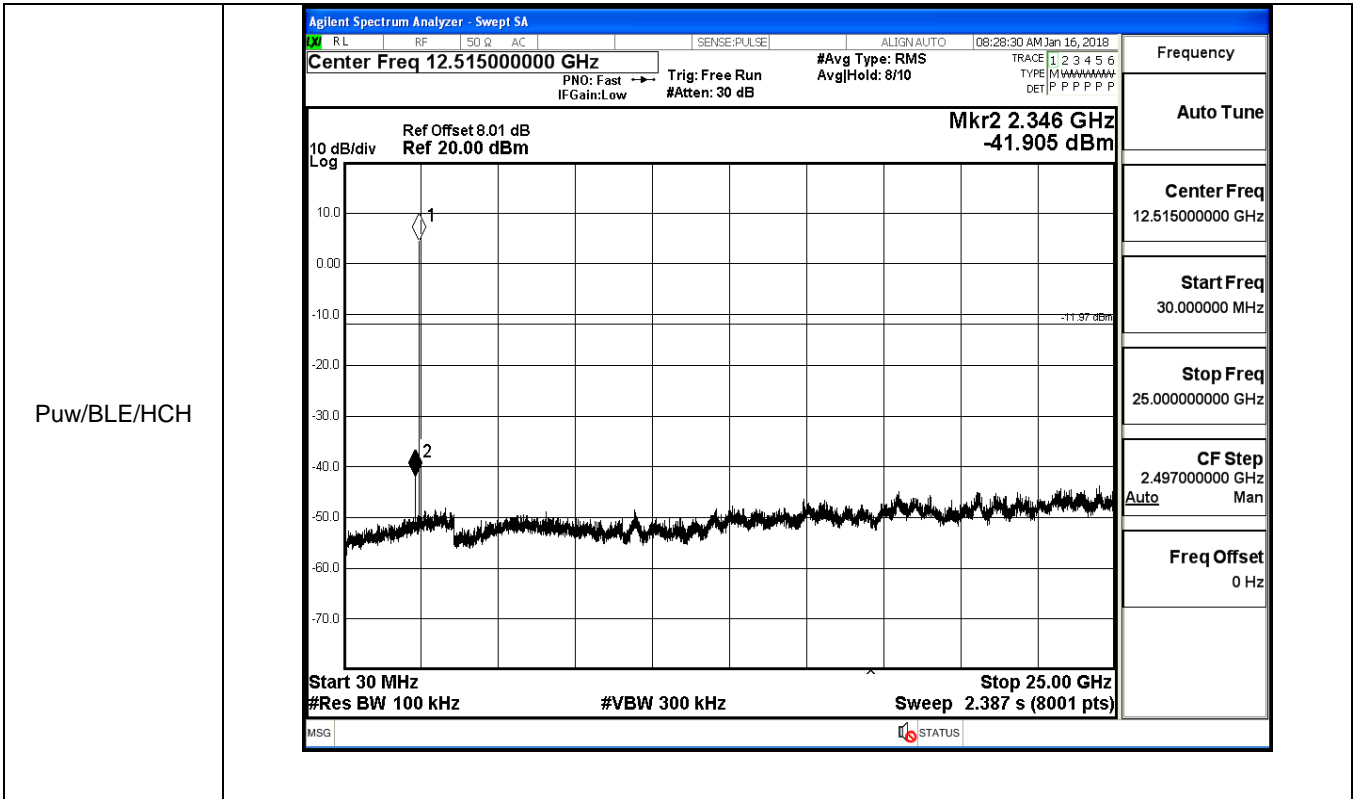
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
BLE	LCH	5.92	<Limit	PASS
BLE	MCH	6.684	<Limit	PASS
BLE	HCH	8.029	<Limit	PASS

Test Graphs









<p>MCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.44000000 GHz</p> <p>Mkr1 2.440 117 0 GHz -1.809 dBm</p> <p>10 dB/div Log</p> <p>Ref Offset 8.01 dB Ref 20.00 dBm</p> <p>Center 2.4400000 GHz #Res BW 3.0 kHz</p> <p>#VBW 10 kHz</p> <p>Span 1.500 MHz Sweep 158.2 ms (1001 pts)</p>
	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.48000000 GHz</p> <p>Mkr1 2.480 118 5 GHz -0.169 dBm</p> <p>10 dB/div Log</p> <p>Ref Offset 8.01 dB Ref 20.00 dBm</p> <p>Center 2.4800000 GHz #Res BW 3.0 kHz</p> <p>#VBW 10 kHz</p> <p>Span 1.500 MHz Sweep 158.2 ms (1001 pts)</p>

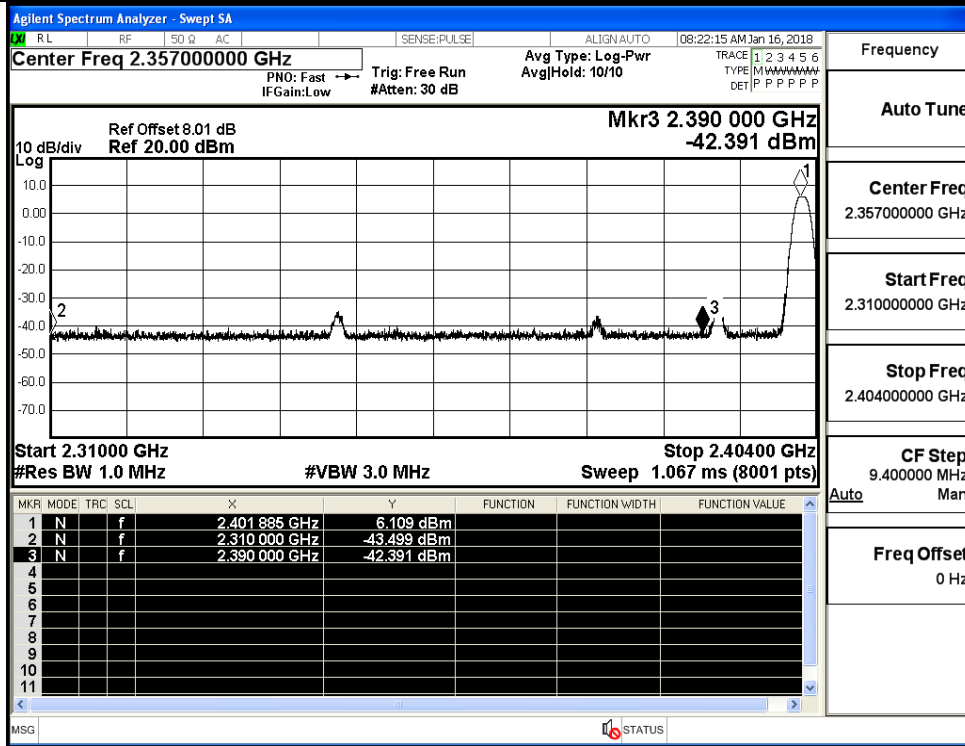
Appendix F):Restrict-band band-edge measurements

Result Table

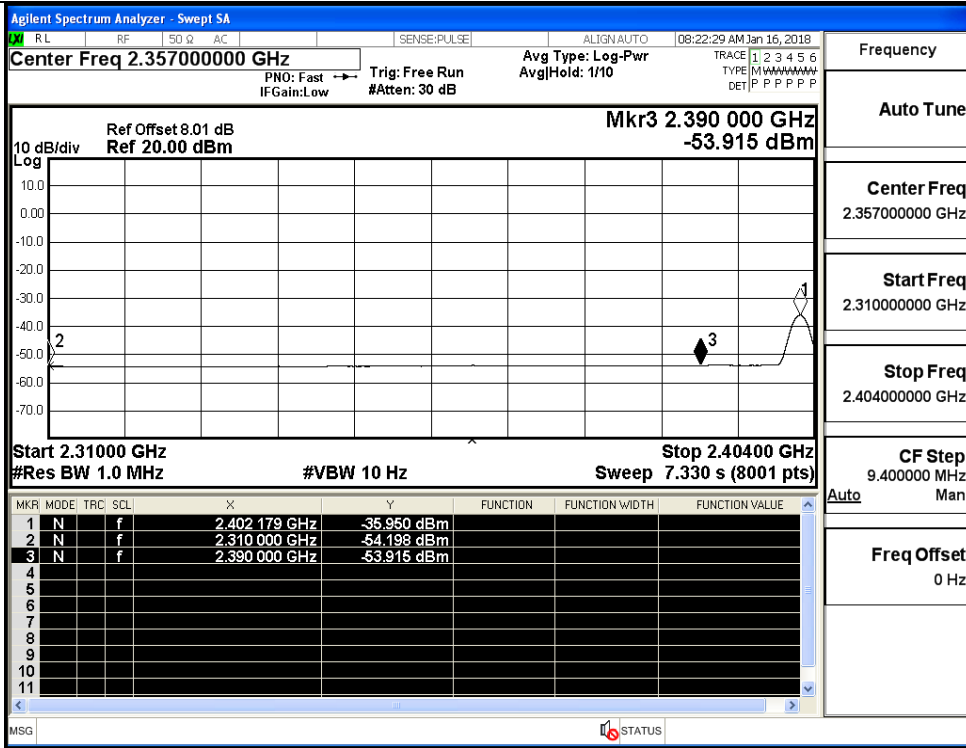
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BLE	2402	Ant1	2310.0	-43.50	2	0	51.76	PEAK	74	PASS
BLE	2402	Ant1	2310.0	-54.20	2	0	41.06	AV	54	PASS
BLE	2402	Ant1	2390.0	-42.39	2	0	52.87	PEAK	74	PASS
BLE	2402	Ant1	2390.0	-53.92	2	0	41.34	AV	54	PASS
BLE	2480	Ant1	2483.5	-42.13	2	0	53.13	PEAK	74	PASS
BLE	2480	Ant1	2483.5	-53.28	2	0	41.97	AV	54	PASS
BLE	2480	Ant1	2500.0	-42.85	2	0	52.41	PEAK	74	PASS
BLE	2480	Ant1	2500.0	-53.58	2	0	41.68	AV	54	PASS

Test Graphs

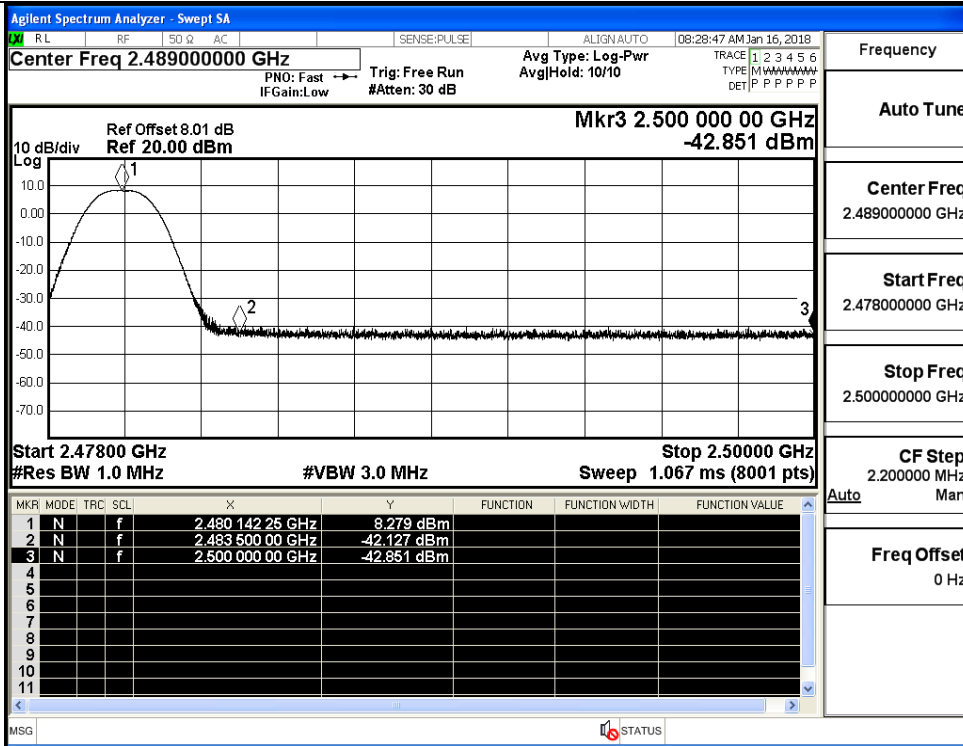
Restrict-band band-edge measurements_BLE_2402_Ant1_PEAK



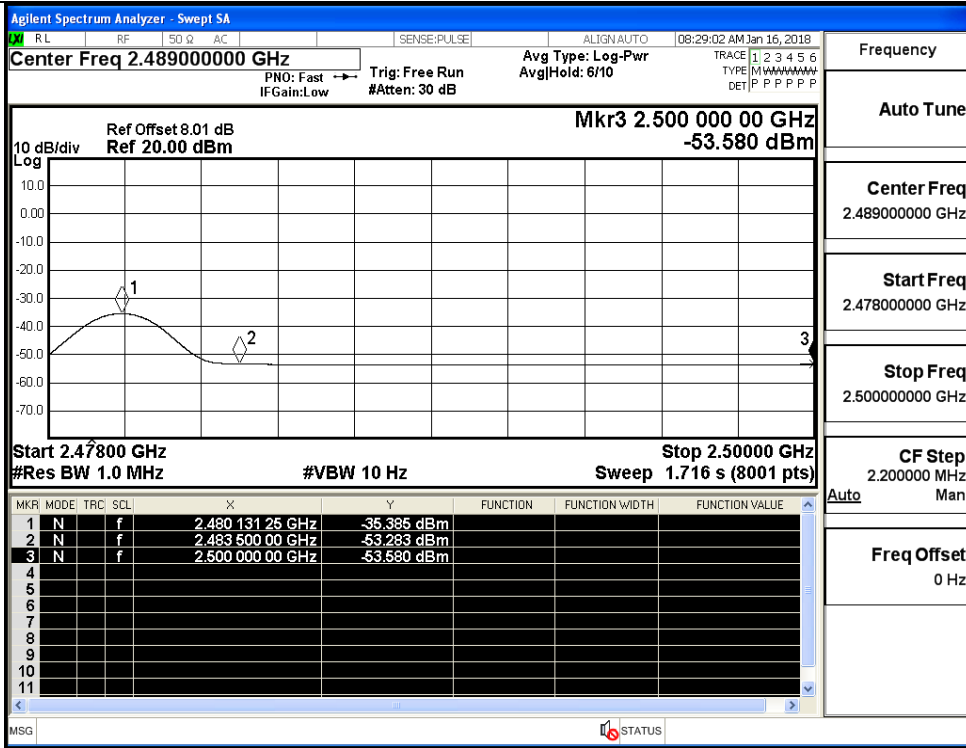
Restrict-band band-edge measurements_BLE_2402_Ant1_AV



Restrict-band band-edge measurements_BLE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BLE_2480_Ant1_AV



Frequency	
Auto Tune	
Center Freq	2.489000000 GHz
Start Freq	2.478000000 GHz
Stop Freq	2.500000000 GHz
CF Step	2.200000 MHz
Auto	Man
Freq Offset	0 Hz

Appendix G):Duty Cycle

Result Table

Test Mode	Test	Ant	Duty Cycle[%]	Verdict
BLE	2440	Ant1	100	PASS

Test Graphs

