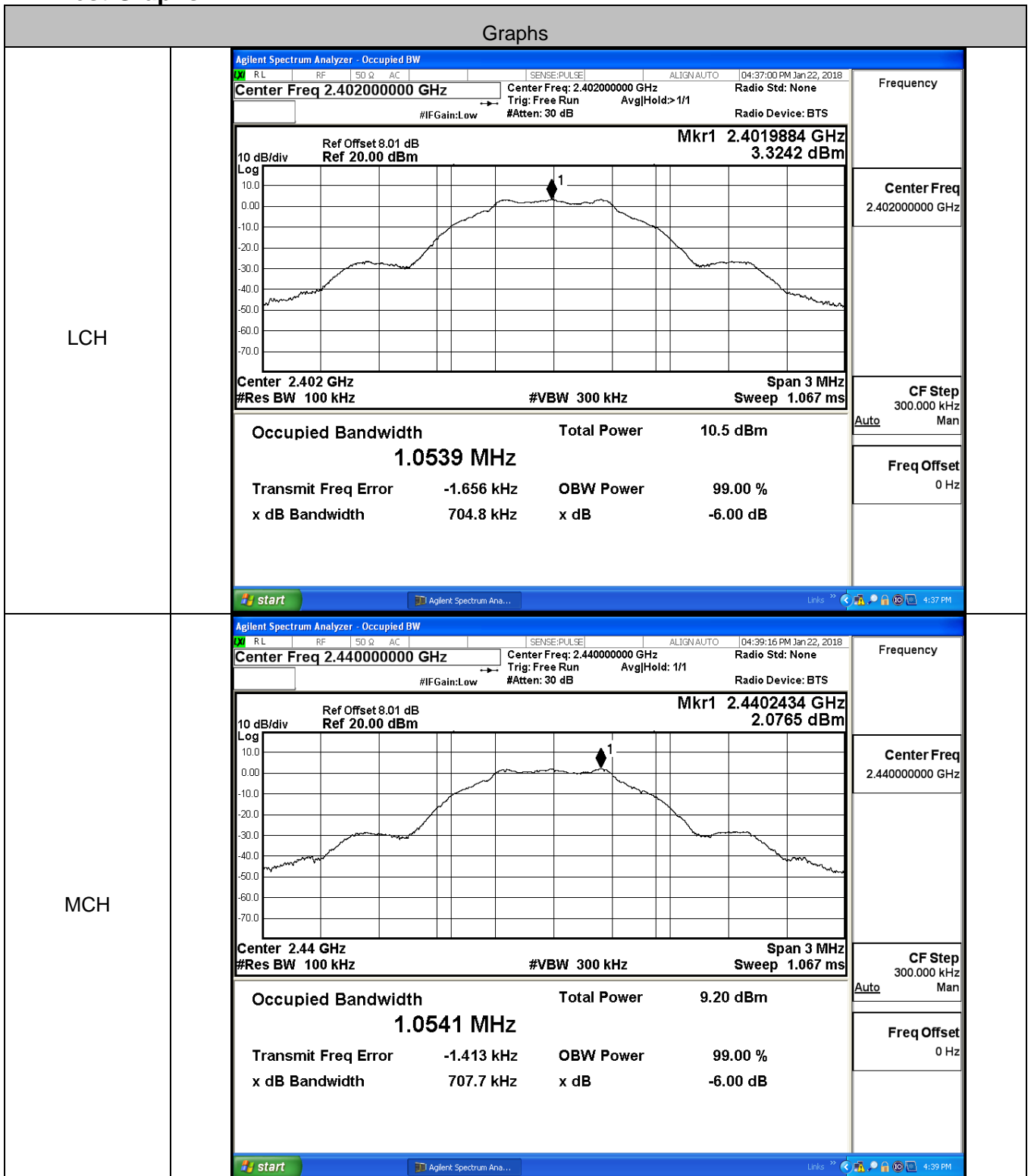


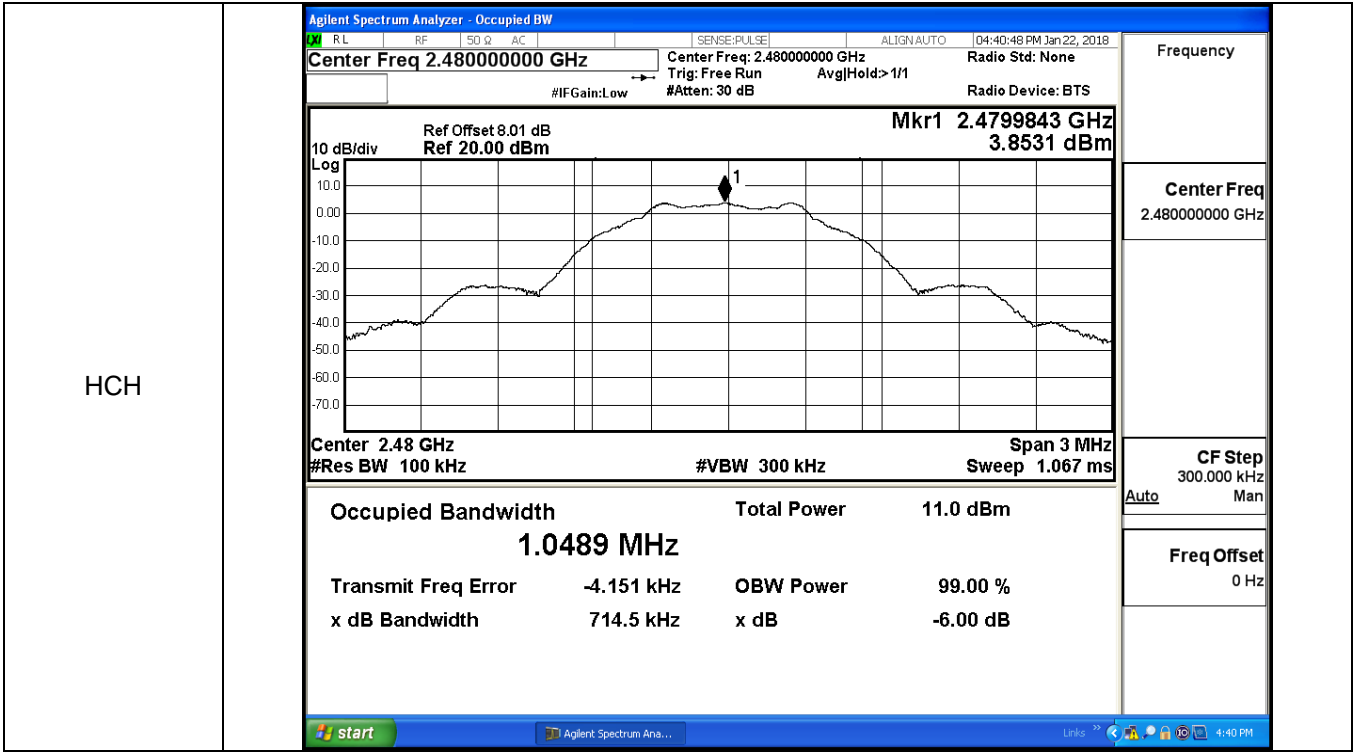
1: 6dB Bandwidth

Test Result

Mode	Channel	6dB Bandwidth [MHz]	Verdict
BLE	LCH	0.7048	PASS
BLE	MCH	0.7077	PASS
BLE	HCH	0.7145	PASS

Test Graphs



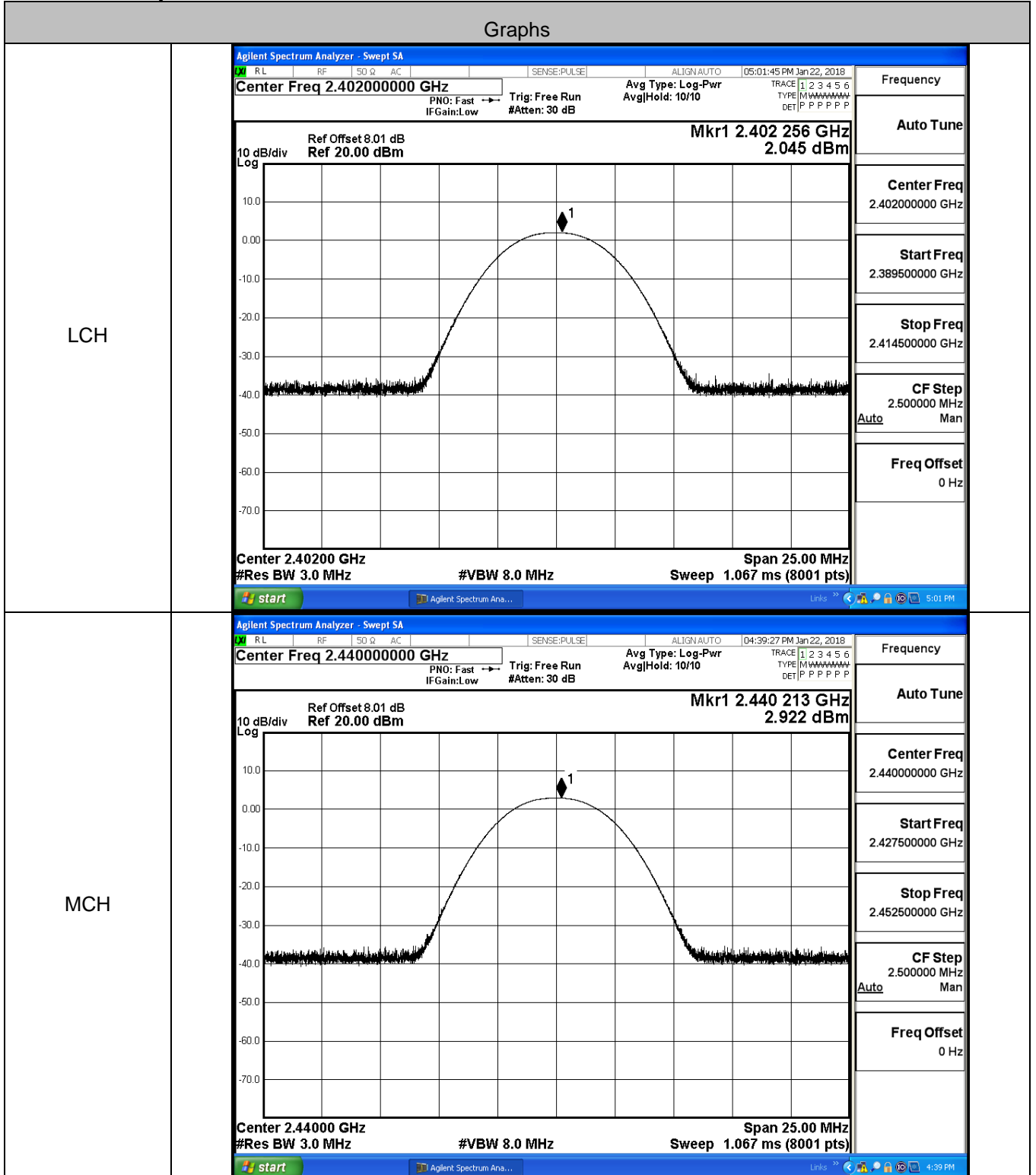


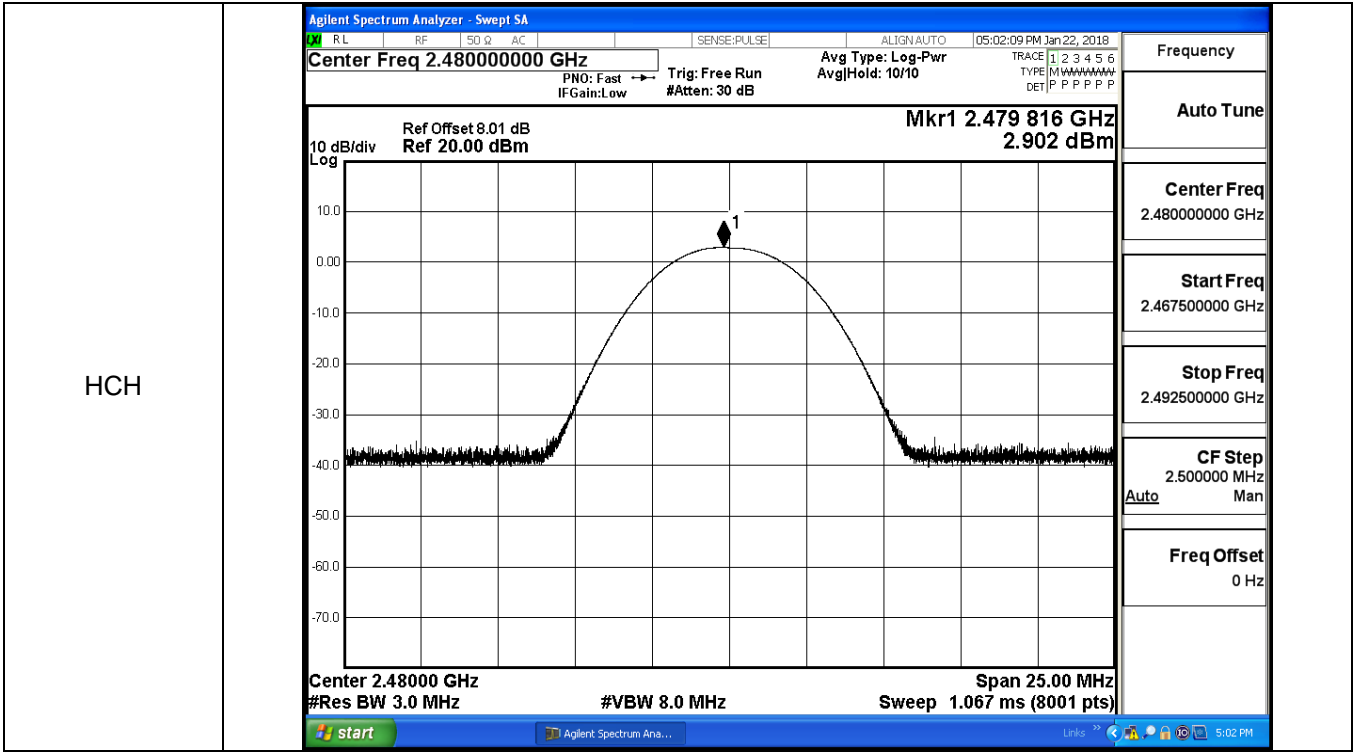
2: Conducted Peak Output Power

Test Result

Mode	Channel	Conduct Peak Power[dBm]	Verdict
BLE	LCH	2.045	PASS
BLE	MCH	2.922	PASS
BLE	HCH	2.902	PASS

Test Graphs





3: Band-edge for RF Conducted Emissions

Result Table

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	LCH	3.560	-50.556	-16.44	PASS
BLE	HCH	4.070	-50.643	-15.93	PASS

Test Graphs

Graphs

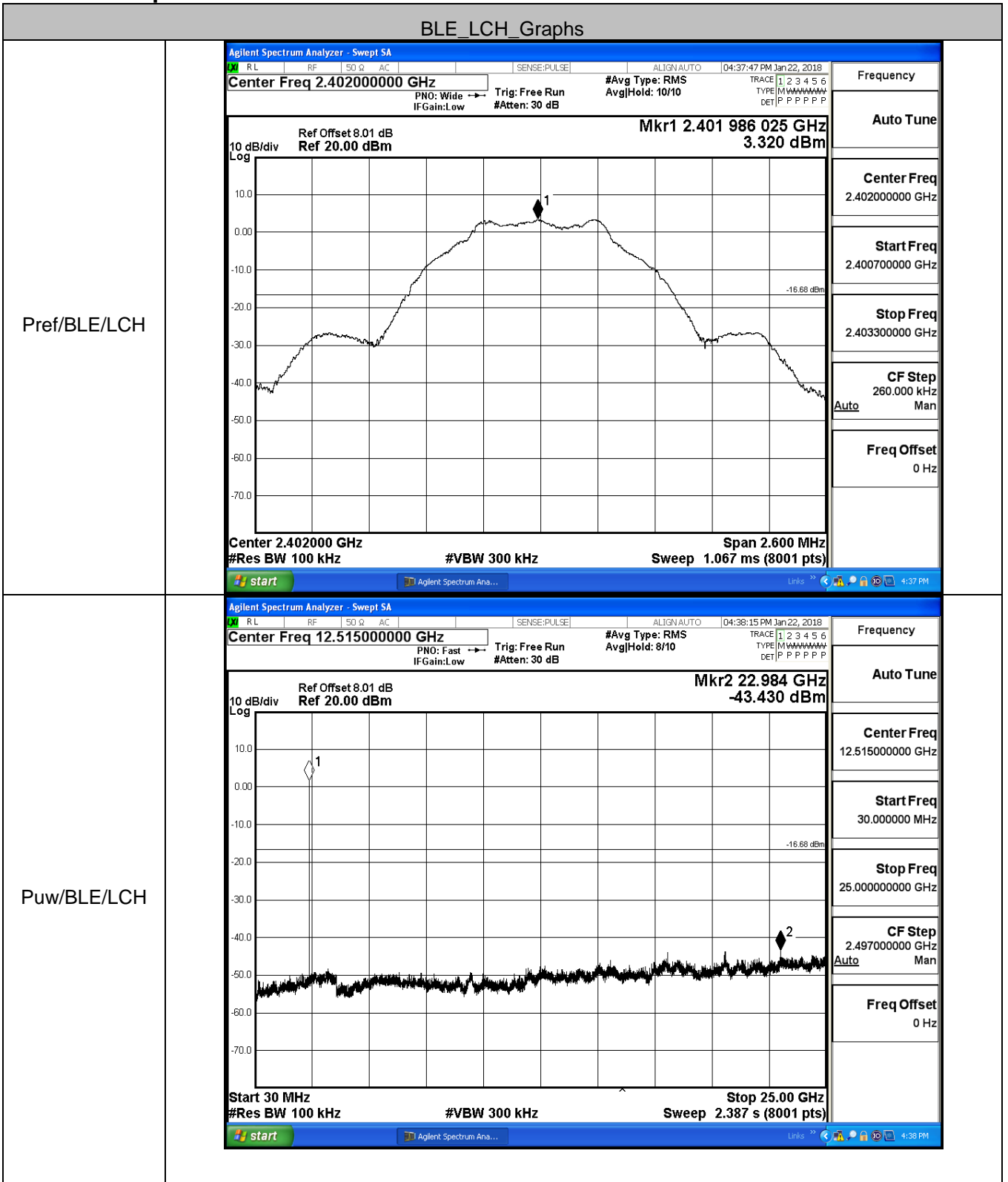
LCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.357000000 GHz Ref Offset 8.01 dB Ref 20.00 dBm Mkr4 2.373 756 GHz -50.556 dBm Start 2.31000 GHz Stop 2.40400 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 9.067 ms (8001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr><td>1</td><td>N</td><td>f</td><td></td><td>2.402 238 GHz</td><td>3.560 dBm</td><td></td><td></td><td></td></tr> <tr><td>2</td><td>N</td><td>f</td><td></td><td>2.400 000 GHz</td><td>-50.386 dBm</td><td></td><td></td><td></td></tr> <tr><td>3</td><td>N</td><td>f</td><td></td><td>2.390 000 GHz</td><td>-54.492 dBm</td><td></td><td></td><td></td></tr> <tr><td>4</td><td>N</td><td>f</td><td></td><td>2.373 756 GHz</td><td>-50.556 dBm</td><td></td><td></td><td></td></tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	f		2.402 238 GHz	3.560 dBm				2	N	f		2.400 000 GHz	-50.386 dBm				3	N	f		2.390 000 GHz	-54.492 dBm				4	N	f		2.373 756 GHz	-50.556 dBm				Frequency Auto Tune Center Freq 2.357000000 GHz Start Freq 2.310000000 GHz Stop Freq 2.404000000 GHz CF Step 9.400000 MHz Freq Offset 0 Hz
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HCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.489000000 GHz Ref Offset 8.01 dB Ref 20.00 dBm Mkr4 2.490 058 75 GHz -50.643 dBm Start 2.47800 GHz Stop 2.50000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.133 ms (8001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr><td>1</td><td>N</td><td>f</td><td></td><td>2.479 751 75 GHz</td><td>4.070 dBm</td><td></td><td></td><td></td></tr> <tr><td>2</td><td>N</td><td>f</td><td></td><td>2.483 500 00 GHz</td><td>-53.864 dBm</td><td></td><td></td><td></td></tr> <tr><td>3</td><td>N</td><td>f</td><td></td><td>2.500 000 00 GHz</td><td>-53.961 dBm</td><td></td><td></td><td></td></tr> <tr><td>4</td><td>N</td><td>f</td><td></td><td>2.490 058 75 GHz</td><td>-50.643 dBm</td><td></td><td></td><td></td></tr> </tbody> </table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	f		2.479 751 75 GHz	4.070 dBm				2	N	f		2.483 500 00 GHz	-53.864 dBm				3	N	f		2.500 000 00 GHz	-53.961 dBm				4	N	f		2.490 058 75 GHz	-50.643 dBm				Frequency Auto Tune Center Freq 2.489000000 GHz Start Freq 2.478000000 GHz Stop Freq 2.500000000 GHz CF Step 2.200000 MHz Freq Offset 0 Hz
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4: RF Conducted Spurious Emissions

Result Table

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
BLE	LCH	3.32	<Limit	PASS
BLE	MCH	1.929	<Limit	PASS
BLE	HCH	3.869	<Limit	PASS

Test Graphs



BLE_MCH_Graphs

<p>Pref/BLE/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 2.440 238 875 GHz 1.929 dBm</p> <p>Center 2.440000 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 2.600 MHz</p> <p>Sweep 1.067 ms (8001 pts)</p>
<p>Puw/BLE/MCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 12.51500000 GHz</p> <p>Ref Offset 8.01 dB Ref 20.00 dBm</p> <p>Mkr2 24.426 GHz -43.661 dBm</p> <p>Start 30 MHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Stop 25.00 GHz</p> <p>Sweep 2.387 s (8001 pts)</p>

BLE_HCH_Graphs

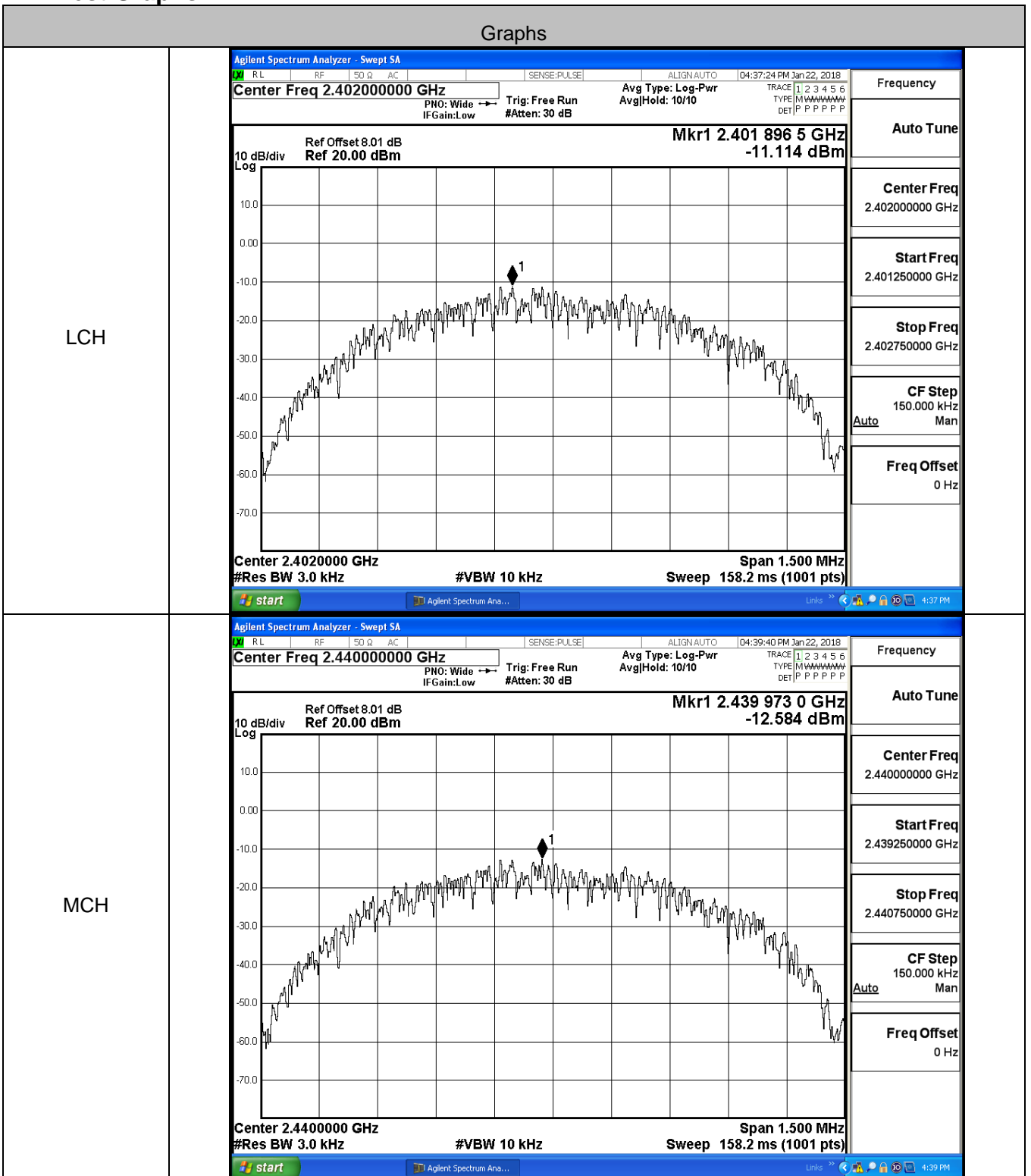
<p>Pref/BLE/HCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.48000000 GHz</p> <p>Ref Offset 8.01 dB Ref 20.00 dBm</p> <p>Mkr1 2.479 989 925 GHz 3.869 dBm</p> <p>10 dB/div Log</p> <p>Center 2.480000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms (8001 pts)</p>
<p>Puw/BLE/HCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 12.51500000 GHz</p> <p>Ref Offset 8.01 dB Ref 20.00 dBm</p> <p>Mkr2 23.074 GHz -42.687 dBm</p> <p>10 dB/div Log</p> <p>Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.387 s (8001 pts)</p>

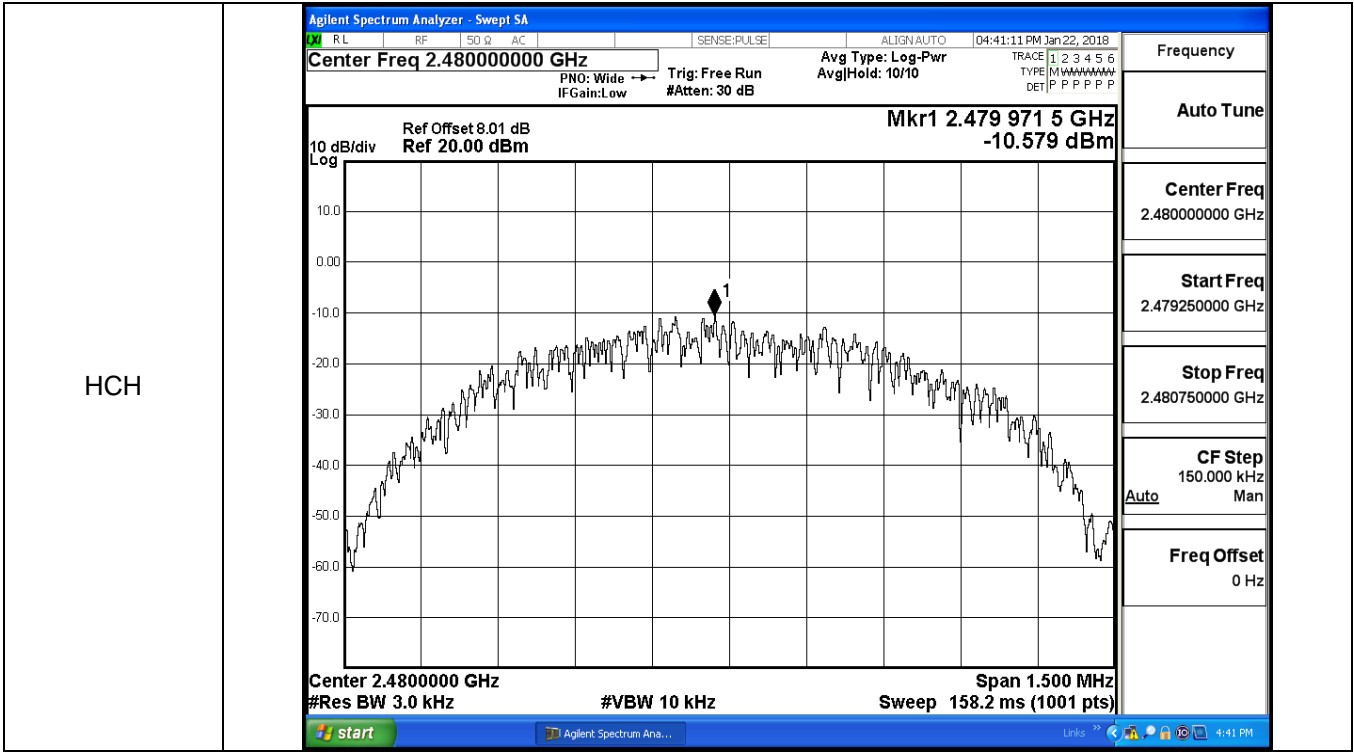
5: Power Spectral Density

Result Table

Mode	Channel	PSD [dBm/3KHz]	Verdict
BLE	LCH	-11.114	PASS
BLE	MCH	-12.584	PASS
BLE	HCH	-10.579	PASS

Test Graphs





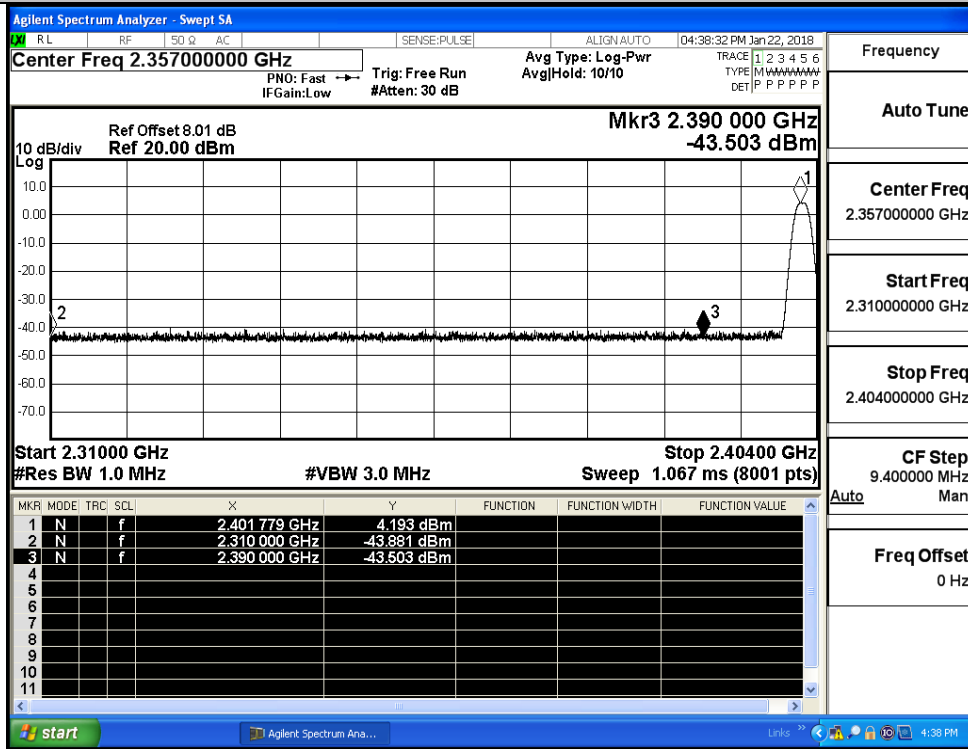
6:Restrict-band band-edge measurements

Result Table

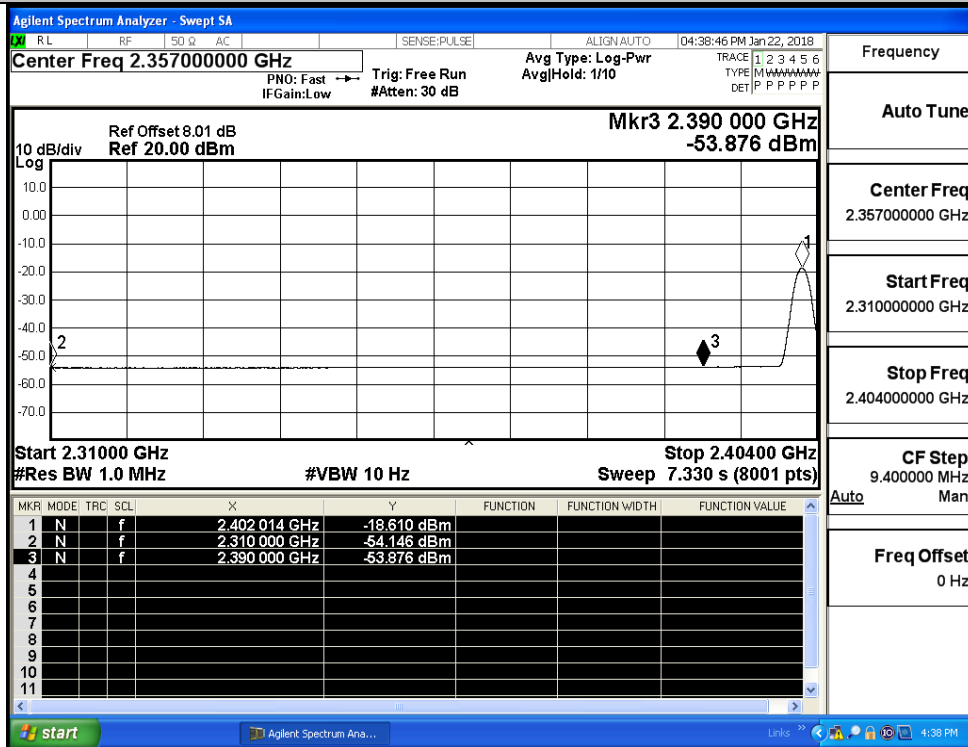
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verd
BLE	2402	Ant1	2310.0	-43.88	2	0	51.38	PEAK	74	PASS
BLE	2402	Ant1	2310.0	-54.15	2	0	41.11	AV	54	PASS
BLE	2402	Ant1	2390.0	-43.50	2	0	51.75	PEAK	74	PASS
BLE	2402	Ant1	2390.0	-53.88	2	0	41.38	AV	54	PASS
BLE	2480	Ant1	2483.5	-43.34	2	0	51.92	PEAK	74	PASS
BLE	2480	Ant1	2483.5	-53.54	2	0	41.72	AV	54	PASS
BLE	2480	Ant1	2500.0	-42.26	2	0	52.99	PEAK	74	PASS
BLE	2480	Ant1	2500.0	-53.52	2	0	41.74	AV	54	PASS

Test Graphs

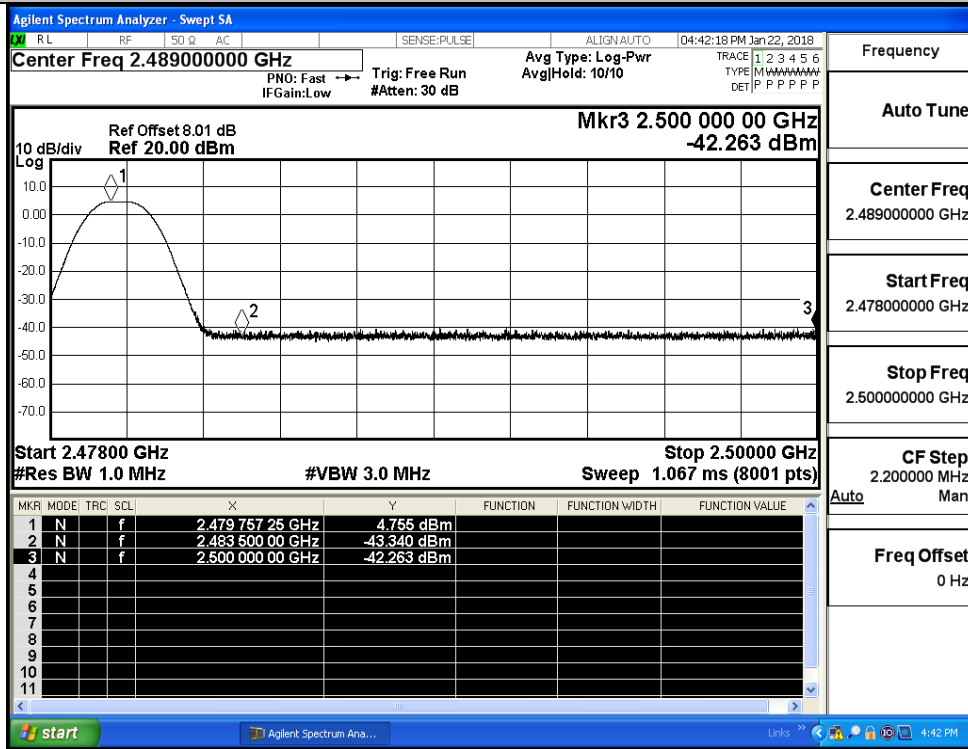
Restrict-band band-edge measurements_BLE_2402_Ant1_PEAK



Restrict-band band-edge measurements_BLE_2402_Ant1_AV

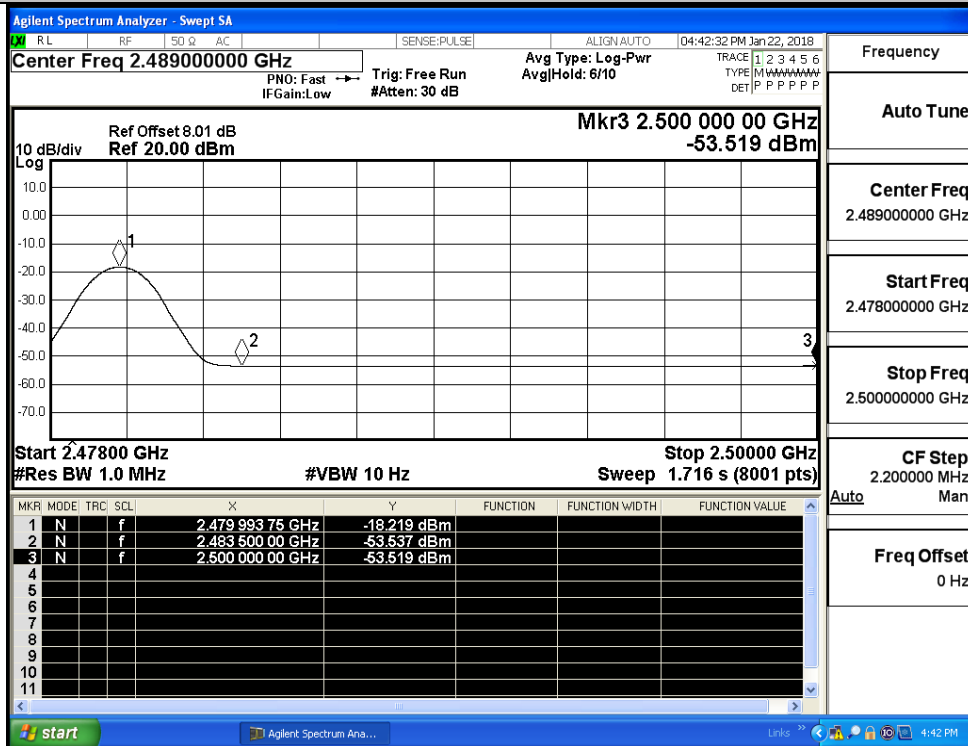


Restrict-band band-edge measurements_BLE_2480_Ant1_PEAK



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

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

7:Duty Cycle

Result Table

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

Test Graphs

