

## Appendix B

### RF Test Data for BT LEV5.0(BLE) (Conducted Measurement)

**Product Name: TWS Slider TCH AX-38**

**Trade Mark: N/A**

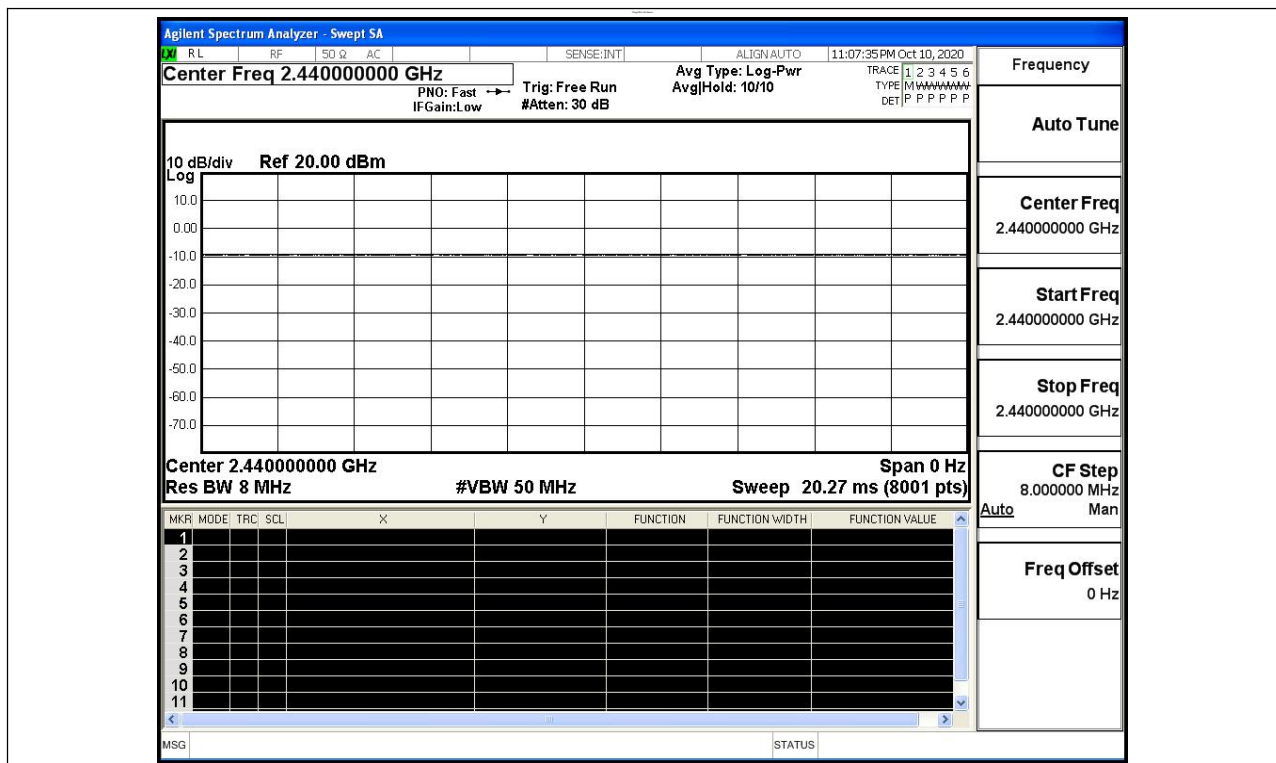
**Test Model: HC-AU-BE-110**

#### Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jam Zheng
Supervised by:	Li Huan

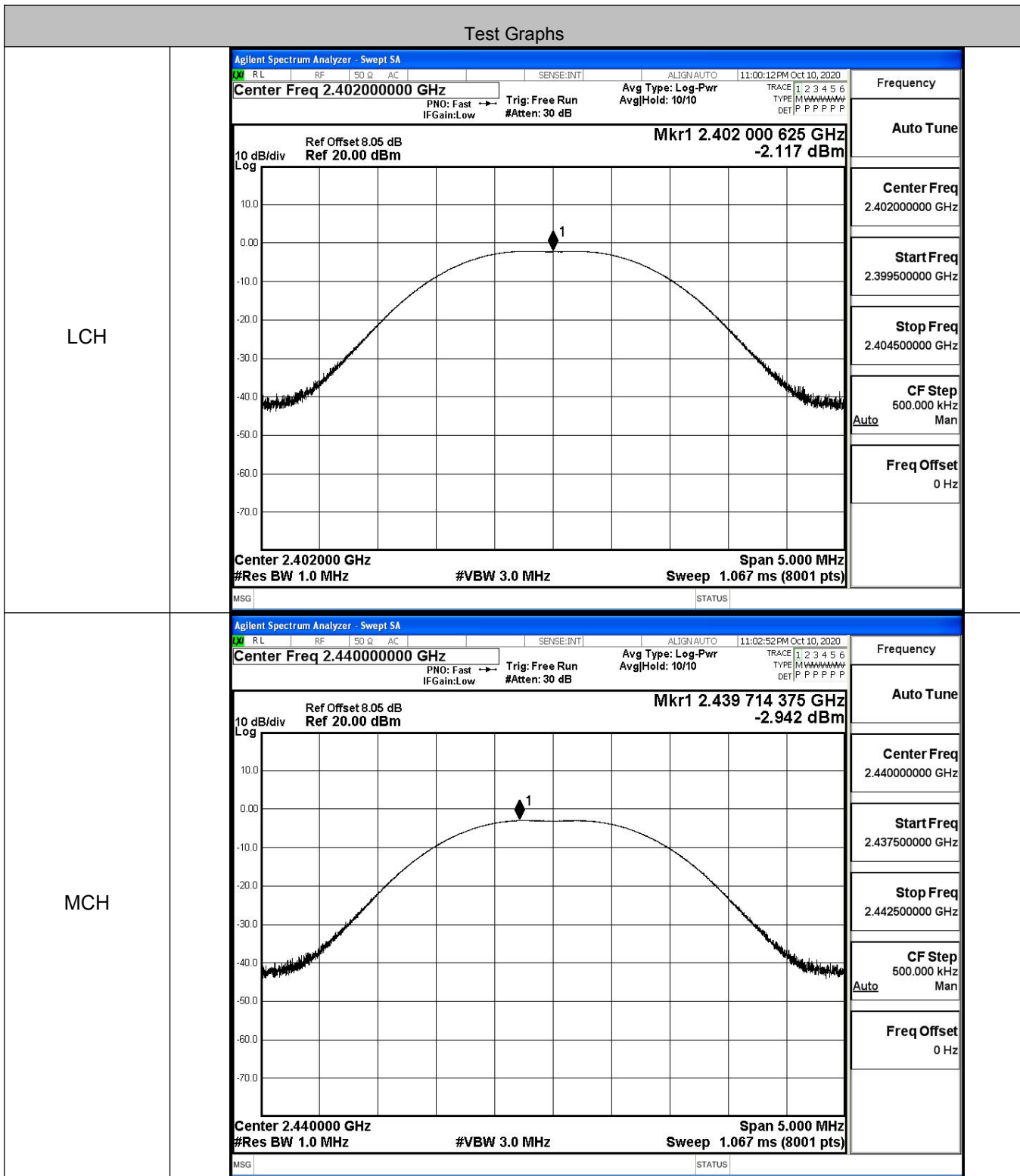
#### B.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



### B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.117	30	PASS
BT LE	MCH	-2.942	30	PASS
BT LE	HCH	-2.39	30	PASS

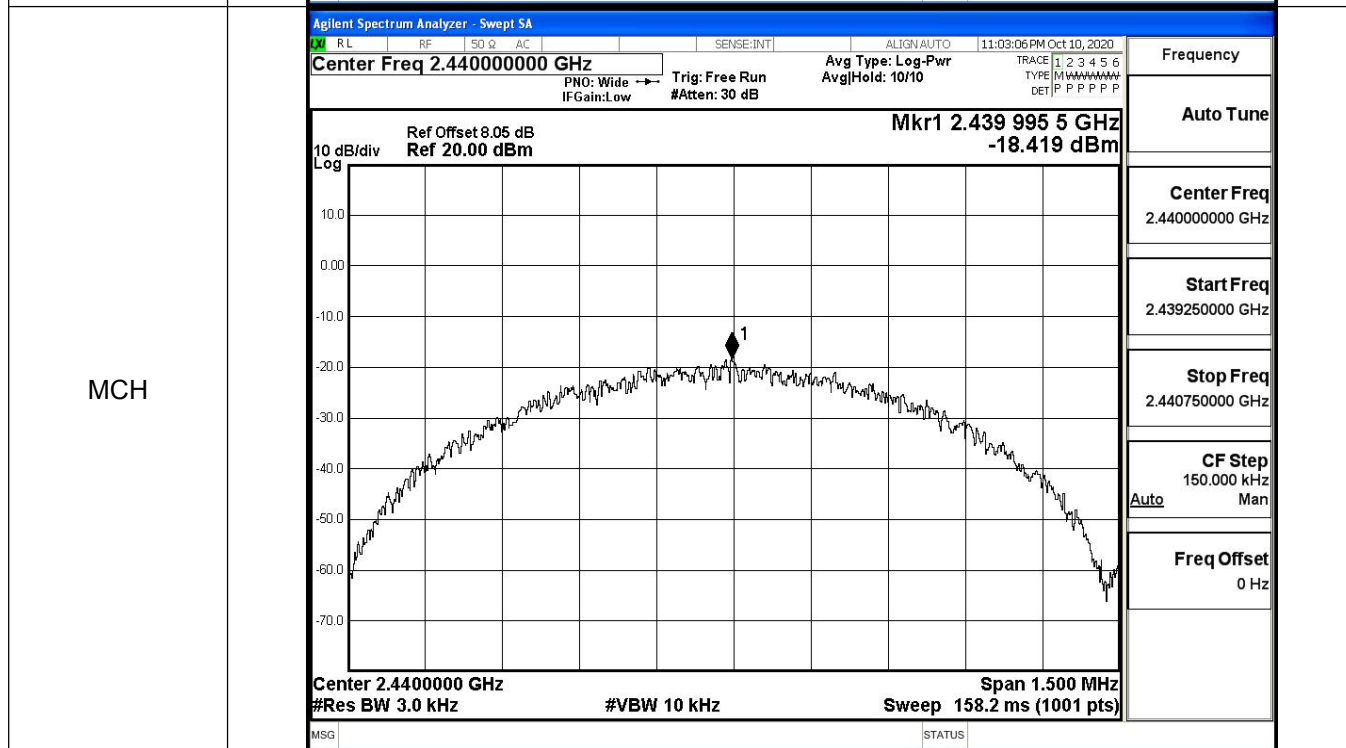
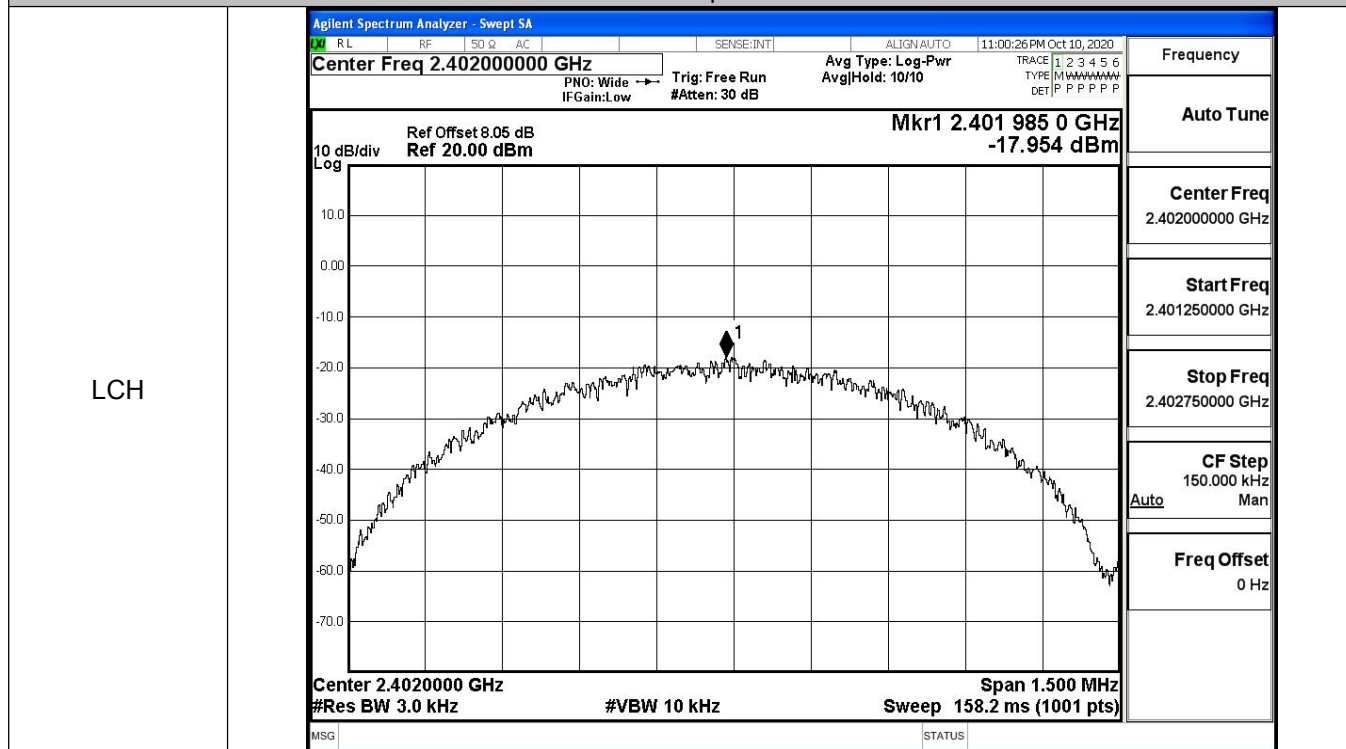




### B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.954	8	PASS
BT LE	MCH	-18.419	8	PASS
BT LE	HCH	-18.030	8	PASS

#### Test Graphs



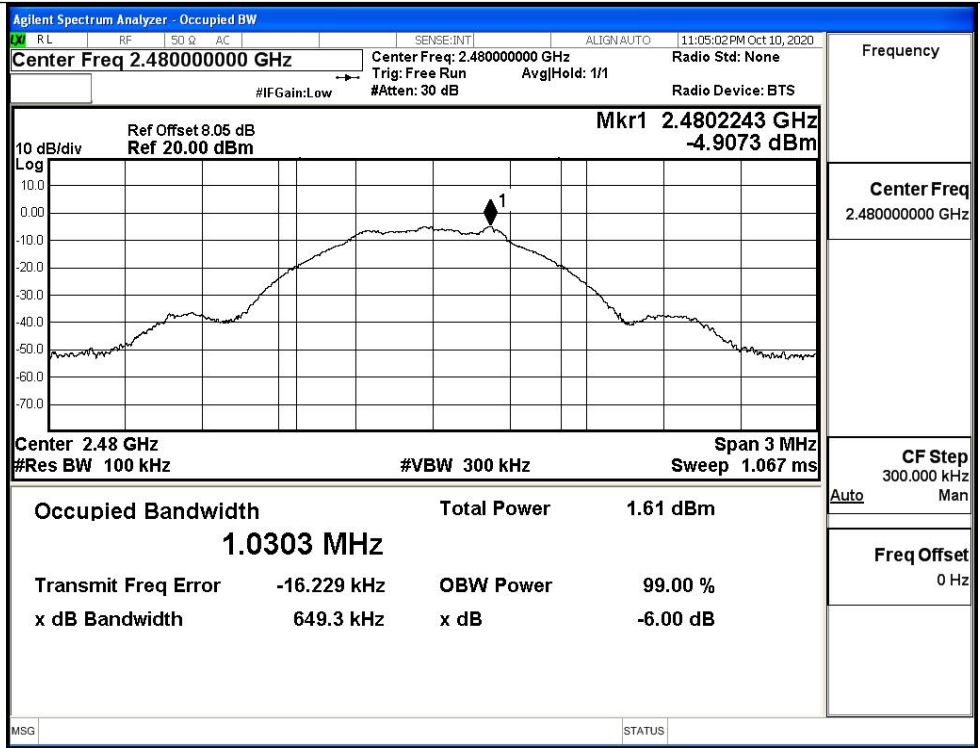


**B.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6444	≥0.5	PASS
BT LE	MCH	0.6593	≥0.5	PASS
BT LE	HCH	0.6493	≥0.5	PASS

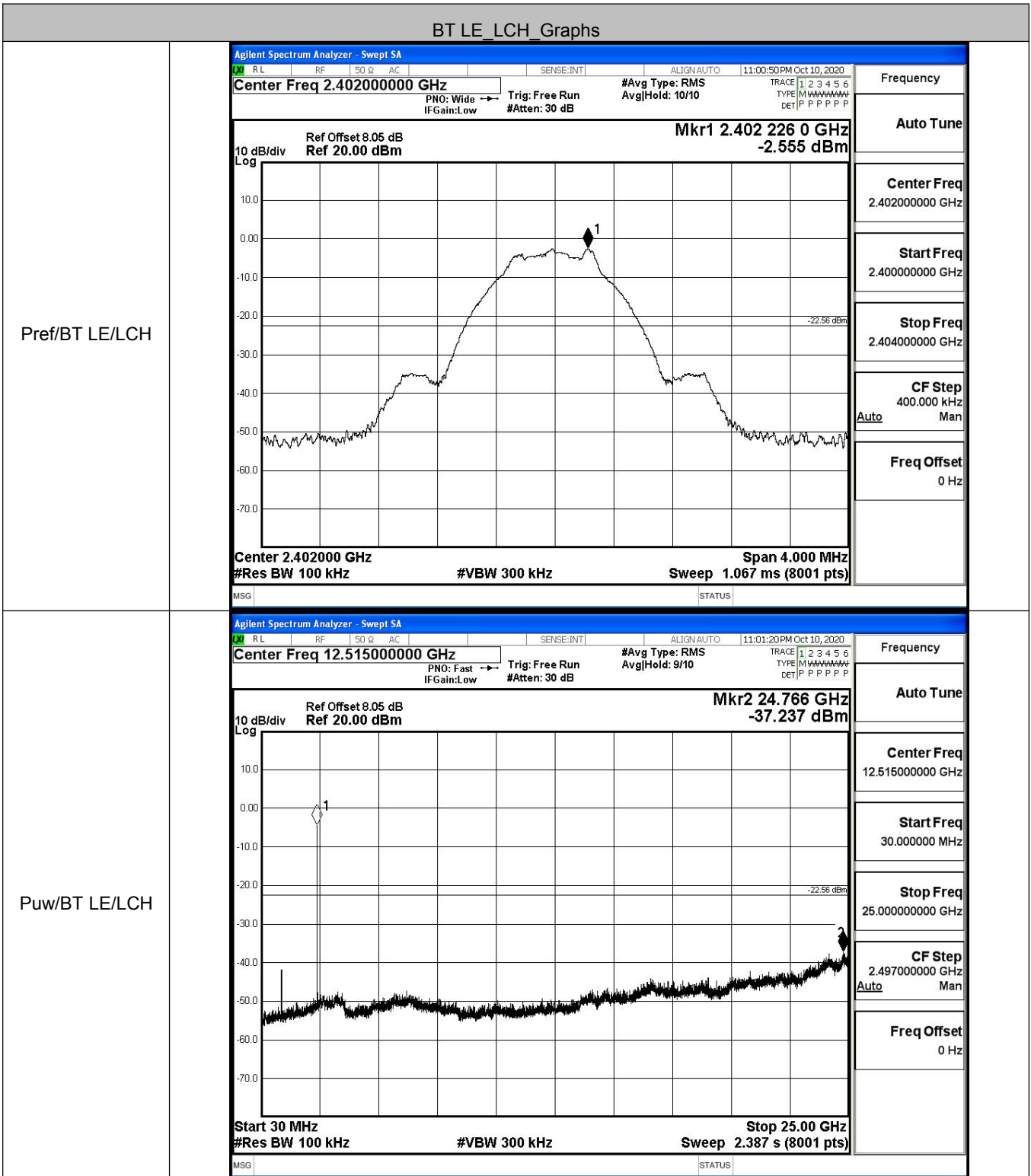
Test Graphs																	
LCH	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">Agilent Spectrum Analyzer - Occupied BW</p> <p style="font-size: small; margin: 0;">RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 11:00:01 PM Oct 10, 2020</p> <p style="margin: 0;">Center Freq 2.40200000 GHz Center Freq: 2.402000000 GHz Radio Std: None                      Trig: Free Run AvgHold&gt; 1/1                      #IFGain:Low #Atten: 30 dB Radio Device: BTS</p> <div style="border: 1px solid black; padding: 2px;"> <p style="text-align: right; margin: 0;">Mkr1 2.4019824 GHz -2.3641 dBm</p> </div> <p style="font-size: small; margin: 0;">Center 2.402 GHz Span 3 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms</p> <table style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <td style="width: 50%;">Occupied Bandwidth</td> <td style="width: 50%;">Total Power</td> <td colspan="2">4.06 dBm</td> </tr> <tr> <td colspan="4" style="text-align: center;"><b>1.0284 MHz</b></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-15.095 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>644.4 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table> <p style="font-size: x-small; margin: 0;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	4.06 dBm		<b>1.0284 MHz</b>				Transmit Freq Error	-15.095 kHz	OBW Power	99.00 %	x dB Bandwidth	644.4 kHz	x dB	-6.00 dB
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HCH



### B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.555	-37.237	-22.555	PASS
BT LE	MCH	-3.315	-37.159	-23.315	PASS
BT LE	HCH	-2.793	-37.282	-22.793	PASS



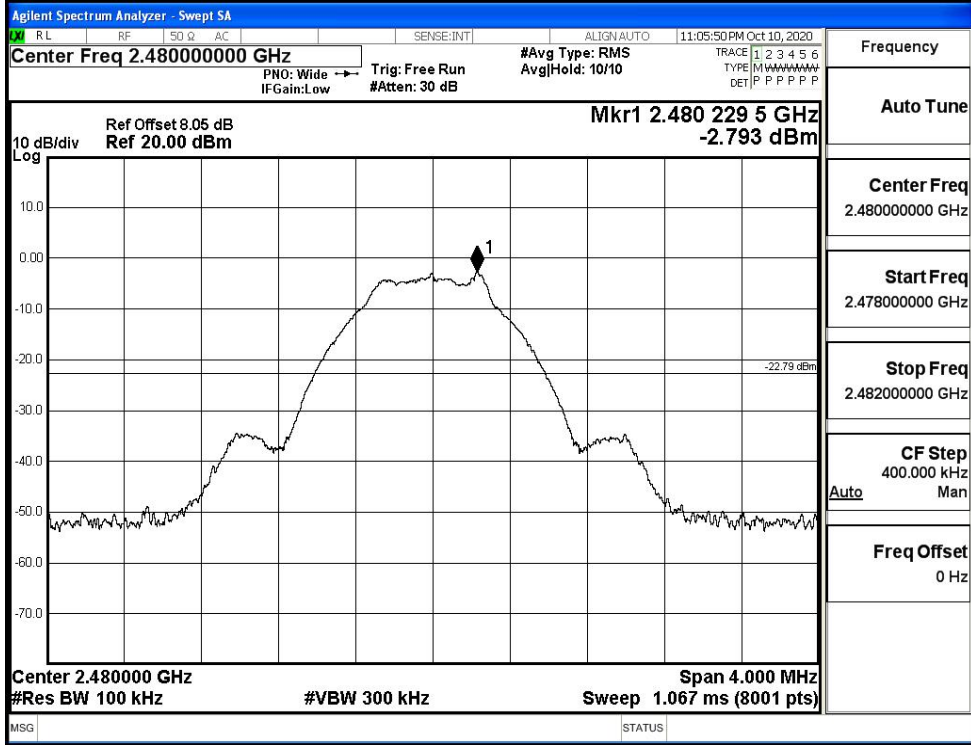


BT LE MCH Graphs

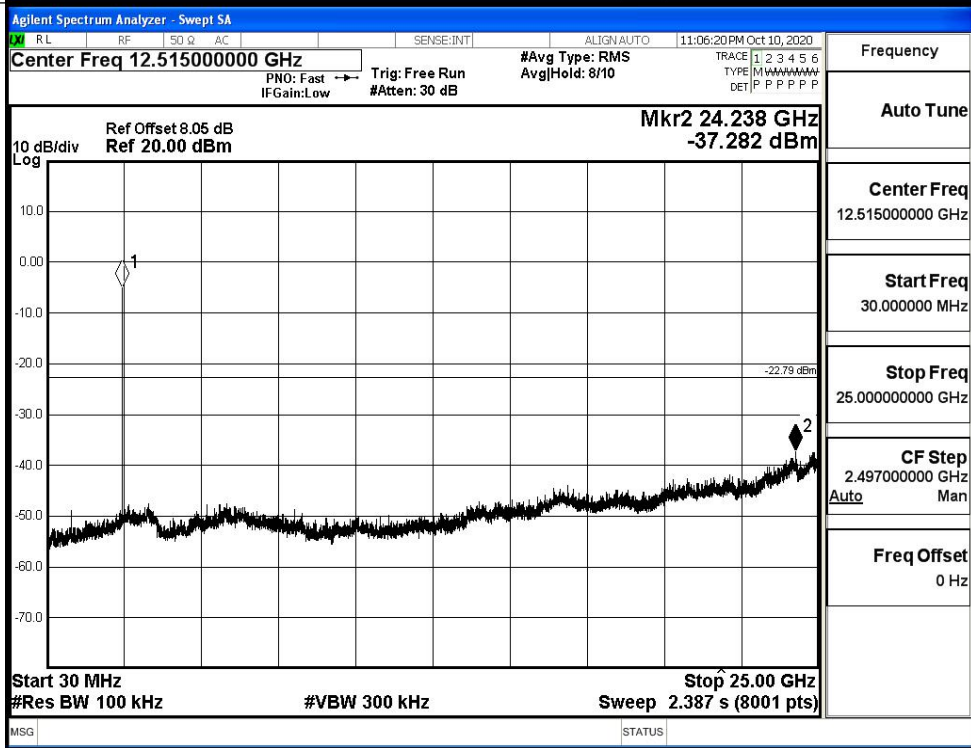
<p>Pref/BT LE/MCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.44000000 GHz</p> <p>Mkr1 2.439 982 0 GHz -3.315 dBm</p> <p>10 dB/div Log</p> <p>Ref Offset 8.05 dB Ref 20.00 dBm</p> <p>Center 2.440000 GHz Span 4.000 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms (8001 pts)</p>	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.440000000 GHz</p> <p>Start Freq 2.438000000 GHz</p> <p>Stop Freq 2.442000000 GHz</p> <p>CF Step 400.000 kHz</p> <p>Freq Offset 0 Hz</p>
	<p>Puw/BT LE/MCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 12.51500000 GHz</p> <p>Mkr2 24.719 GHz -37.159 dBm</p> <p>10 dB/div Log</p> <p>Ref Offset 8.05 dB Ref 20.00 dBm</p> <p>Start 30 MHz Stop 25.00 GHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 2.387 s (8001 pts)</p>

BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH



### B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.998	-49.890	-23	PASS
BT LE	HCH	-2.884	-49.479	-22.88	PASS

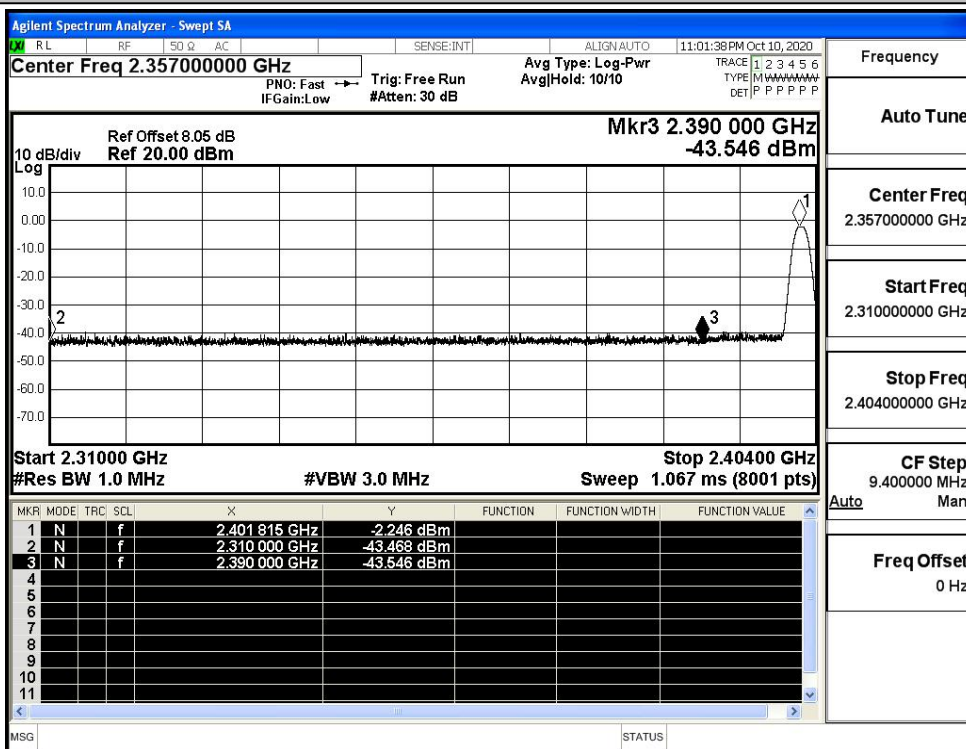
#### Test Graphs

LCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.35700000 GHz Mkr4 2.312 526 GHz -49.890 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>2.401 979 GHz</td><td>-2.998 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>-53.882 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>-52.301 dBm</td><td></td><td></td><td></td></tr> <tr><td>4</td><td>N</td><td>f</td><td></td><td>2.312 526 GHz</td><td>-49.890 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		2.401 979 GHz	-2.998 dBm				2	N	f		2.400 000 GHz	-53.882 dBm				3	N	f		2.390 000 GHz	-52.301 dBm				4	N	f		2.312 526 GHz	-49.890 dBm				<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.35700000 GHz</p> <p>Start Freq 2.310000000 GHz</p> <p>Stop Freq 2.404000000 GHz</p> <p>CF Step 9.400000 MHz</p> <p>Freq Offset 0 Hz</p>
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HCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.48900000 GHz Mkr4 2.479 985 50 GHz -49.479 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>2.479 985 50 GHz</td><td>-2.984 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>-52.534 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>-51.461 dBm</td><td></td><td></td><td></td></tr> <tr><td>4</td><td>N</td><td>f</td><td></td><td>2.487 446 25 GHz</td><td>-49.479 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		2.479 985 50 GHz	-2.984 dBm				2	N	f		2.483 500 00 GHz	-52.534 dBm				3	N	f		2.500 000 00 GHz	-51.461 dBm				4	N	f		2.487 446 25 GHz	-49.479 dBm				<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.489000000 GHz</p> <p>Start Freq 2.478000000 GHz</p> <p>Stop Freq 2.500000000 GHz</p> <p>CF Step 2.200000 MHz</p> <p>Freq Offset 0 Hz</p>
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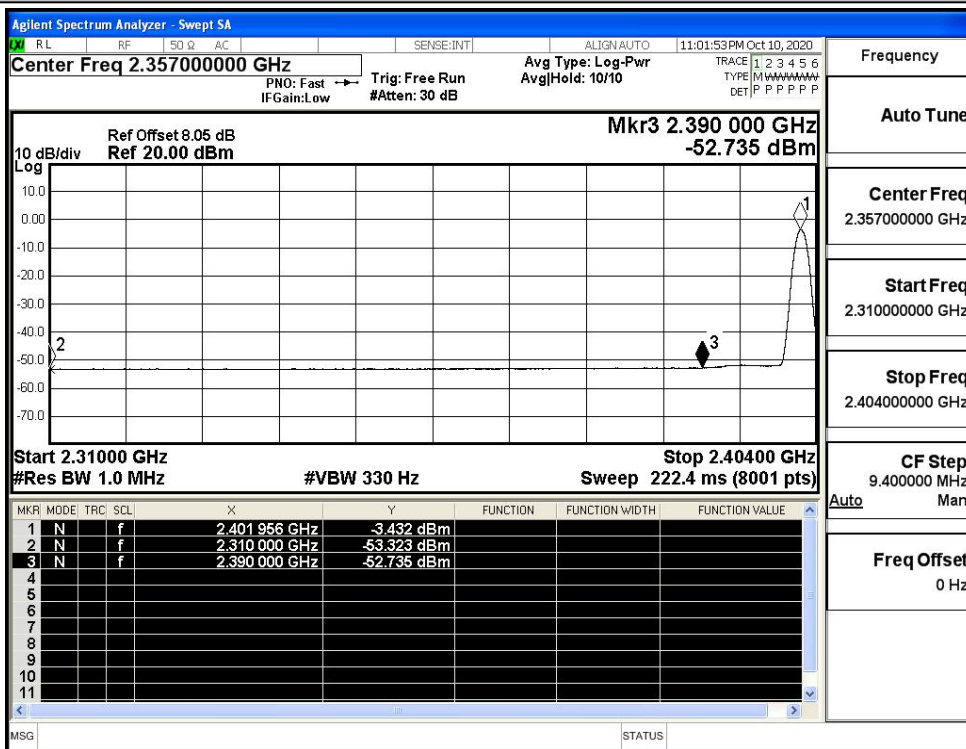
**B.7 Restrict-band band-edge measurements**

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-43.47	2.0	0	53.76	PEAK	74	PASS
		Ant1	2310.0	-53.32	2.0	0	43.91	AV	54	PASS
		Ant1	2390.0	-43.55	2.0	0	53.68	PEAK	74	PASS
		Ant1	2390.0	-52.74	2.0	0	44.49	AV	54	PASS
	2480	Ant1	2483.5	-42.61	2.0	0	54.62	PEAK	74	PASS
		Ant1	2483.5	-51.97	2.0	0	45.26	AV	54	PASS
		Ant1	2500.0	-42.54	2.0	0	54.69	PEAK	74	PASS
		Ant1	2500.0	-52.32	2.0	0	44.91	AV	54	PASS

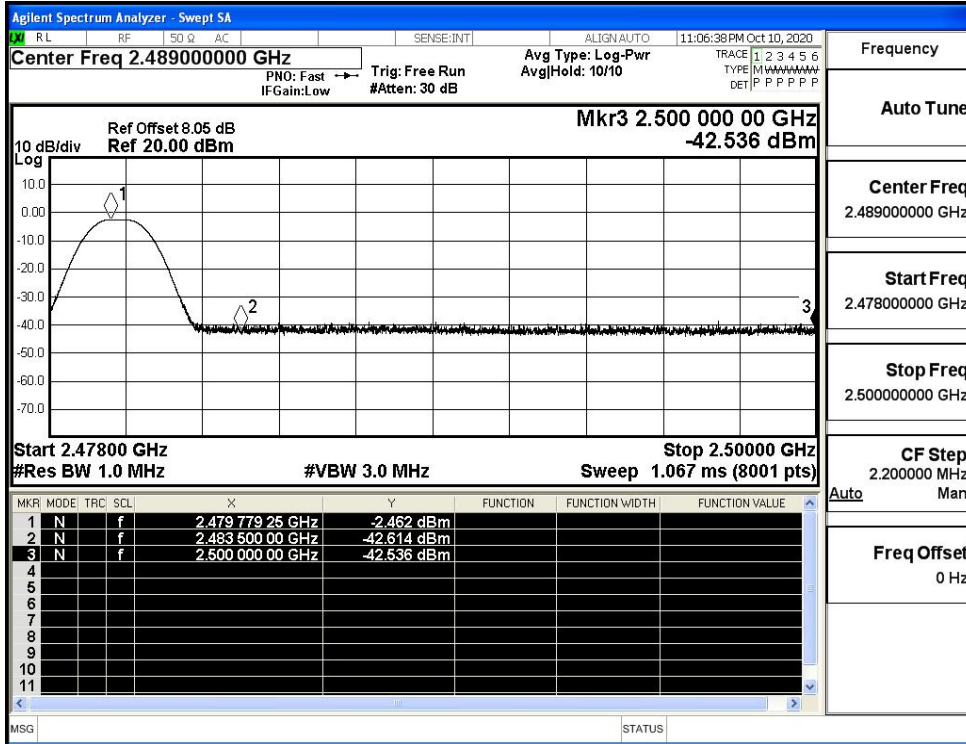
Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_AV



Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_PEAK



Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_AV

