

## Appendix B

### RF Test Data for BT LE V4.2(DTS) (Conducted Measurement)

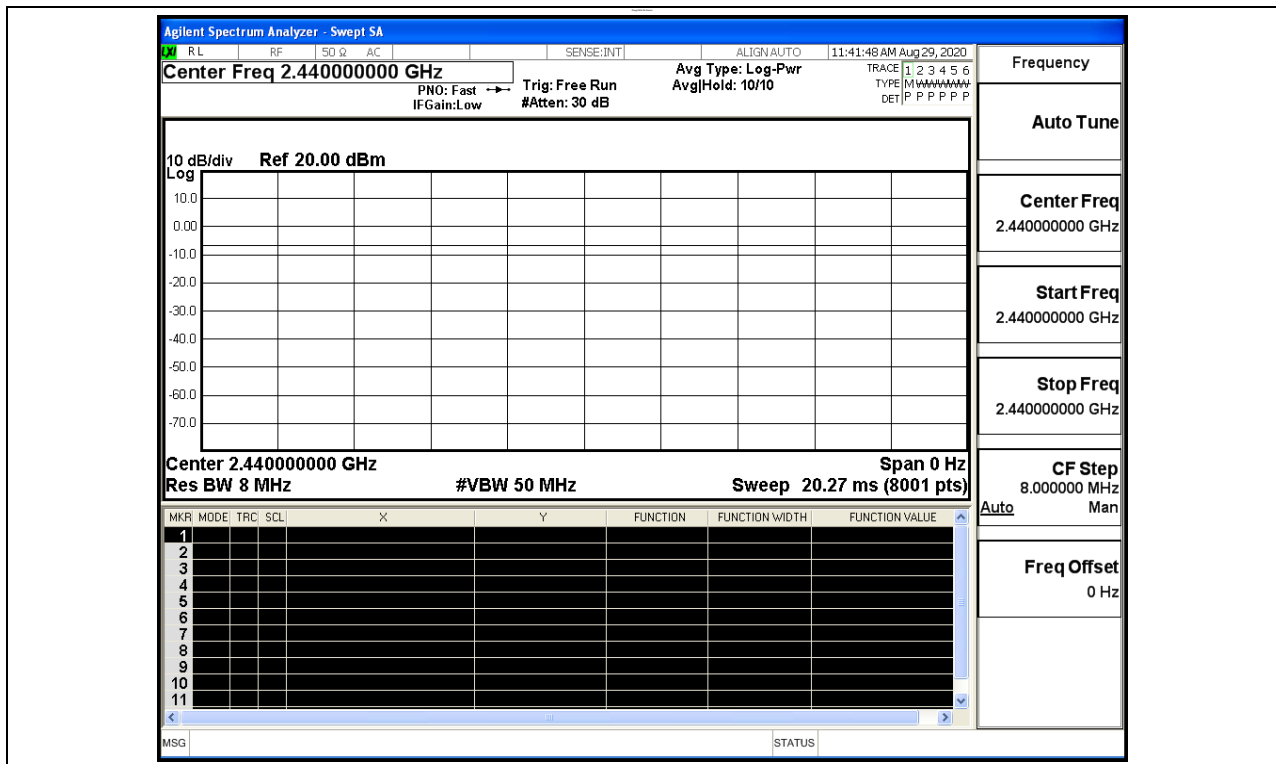
**Product Name: Tablet**  
**Trade Mark: LAVA & XOLO**  
**Test Model: T71**

#### Environmental Conditions

Temperature:	24.1 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

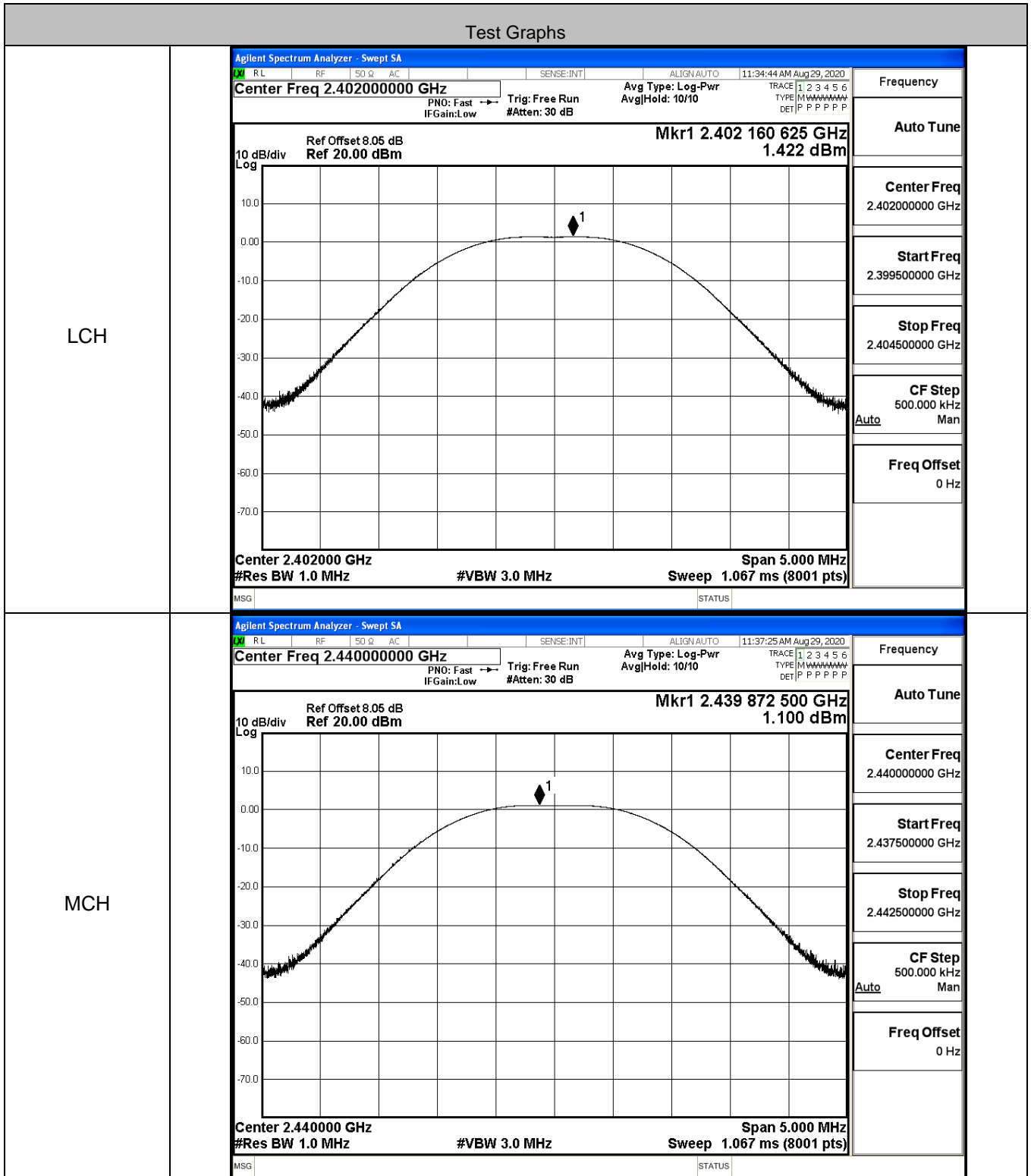
#### B.1 Duty Cycle

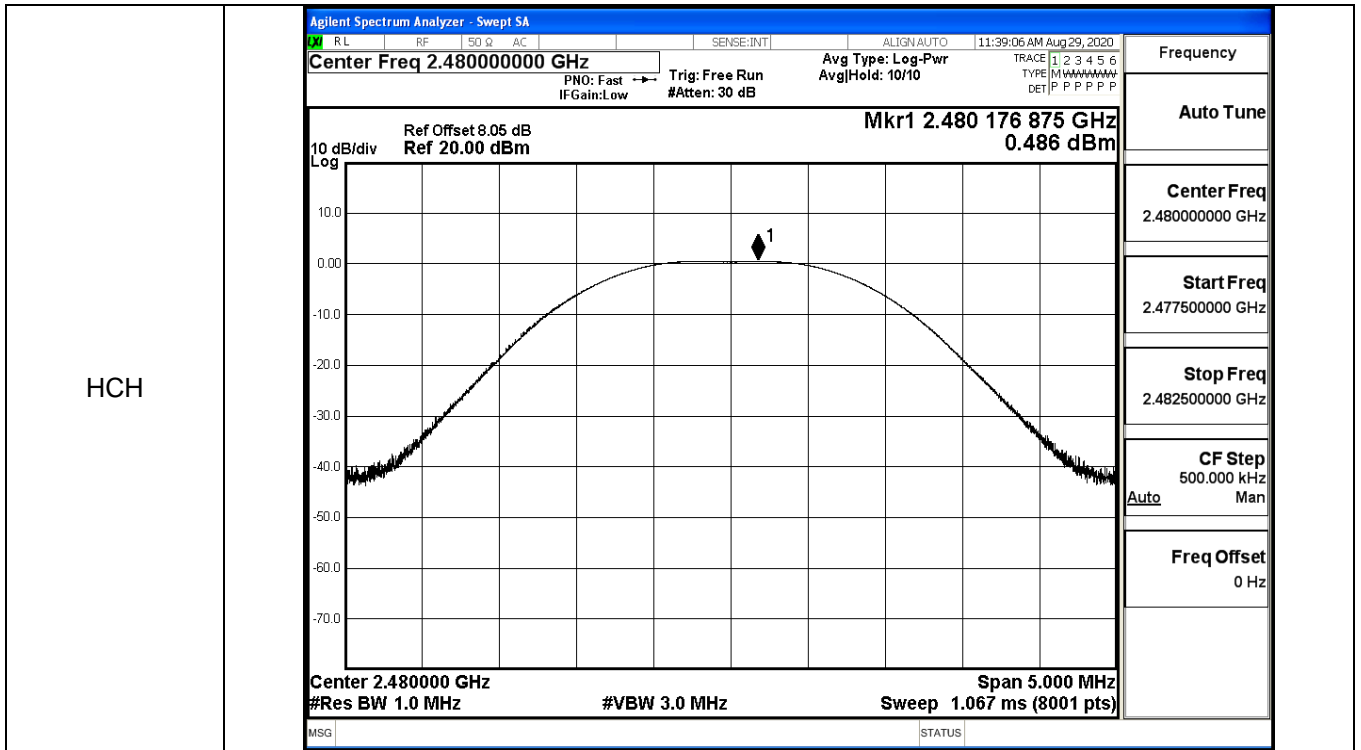
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



### B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.422	30	PASS
BT LE	MCH	1.100	30	PASS
BT LE	HCH	0.486	30	PASS

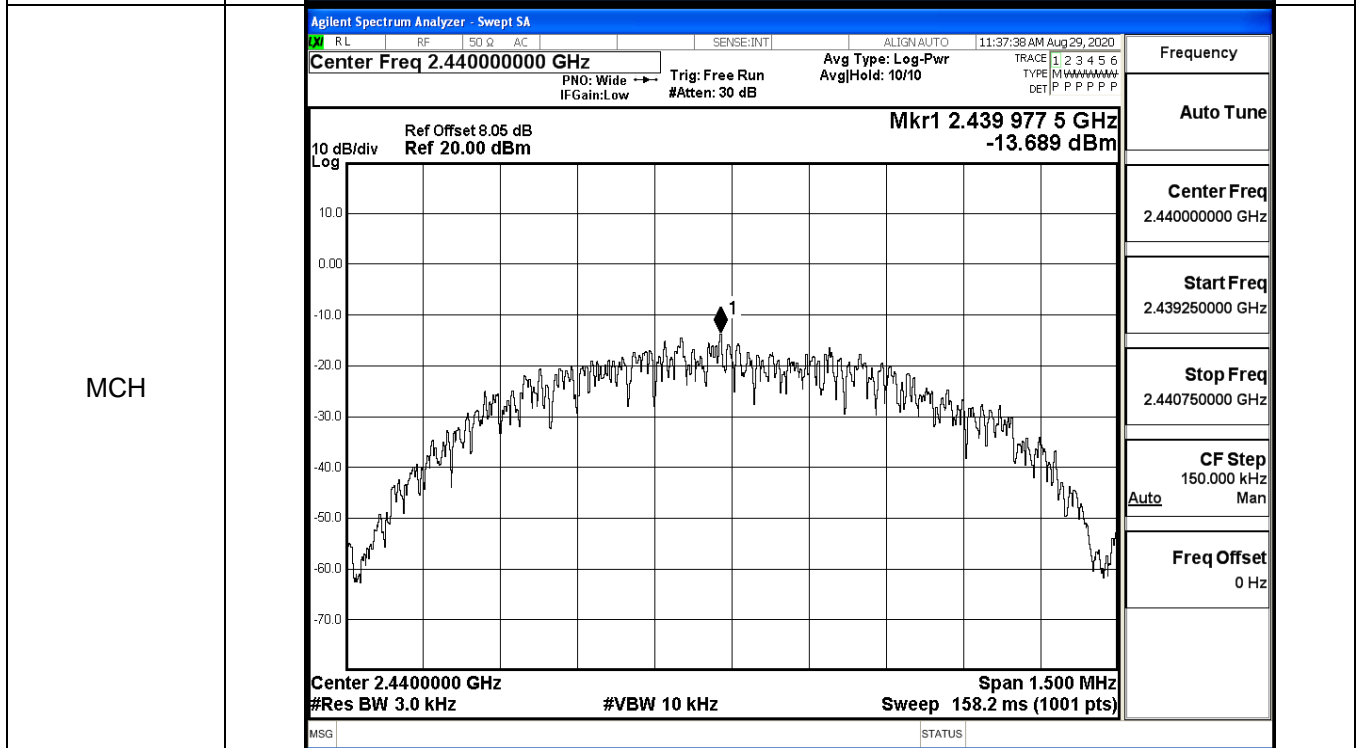
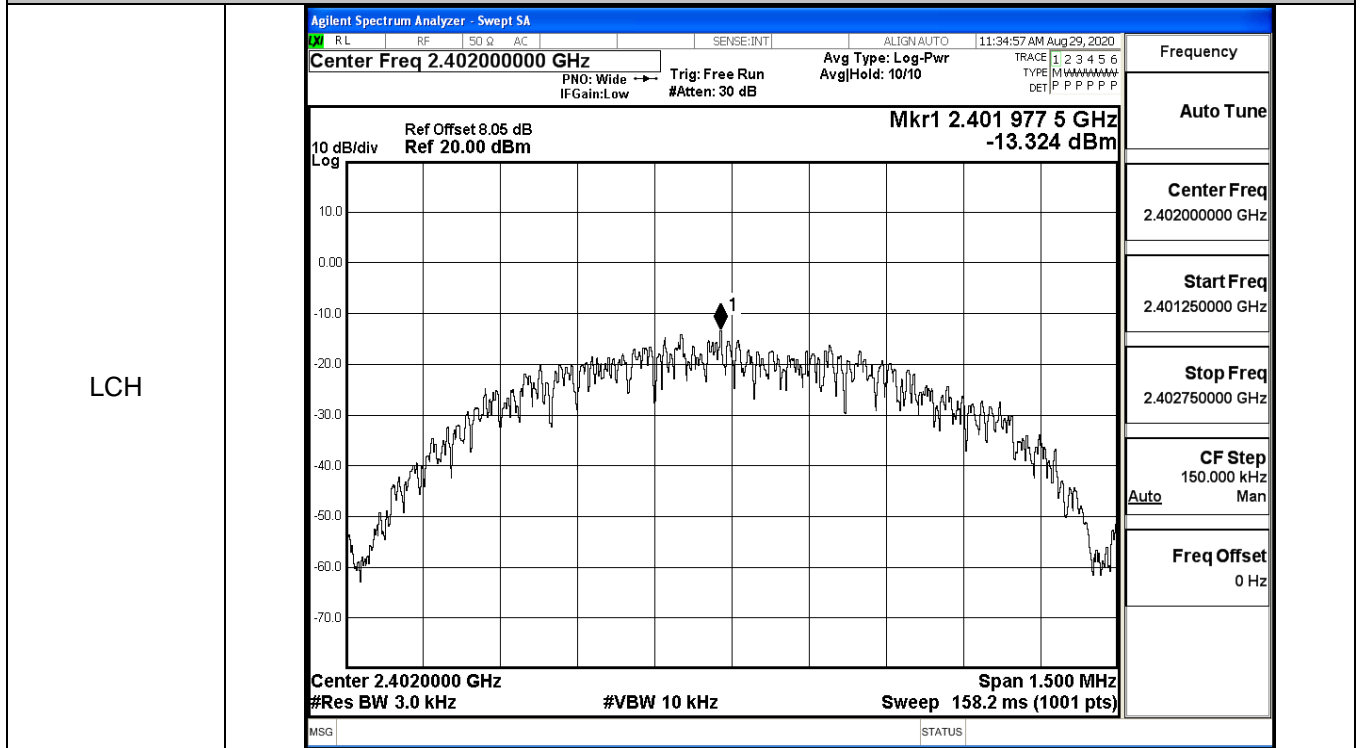




### B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.324	8	PASS
BT LE	MCH	-13.689	8	PASS
BT LE	HCH	-14.320	8	PASS

#### Test Graphs

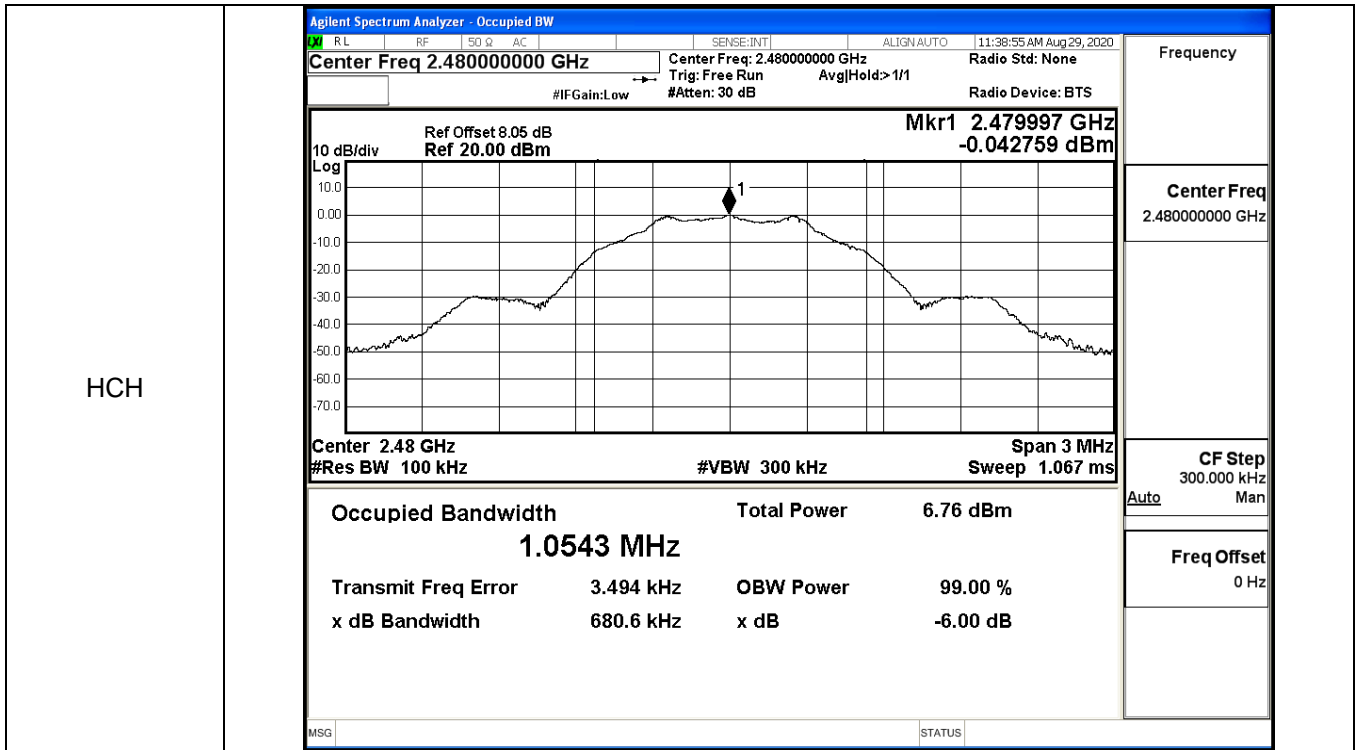




**B.4 6dB Bandwidth**

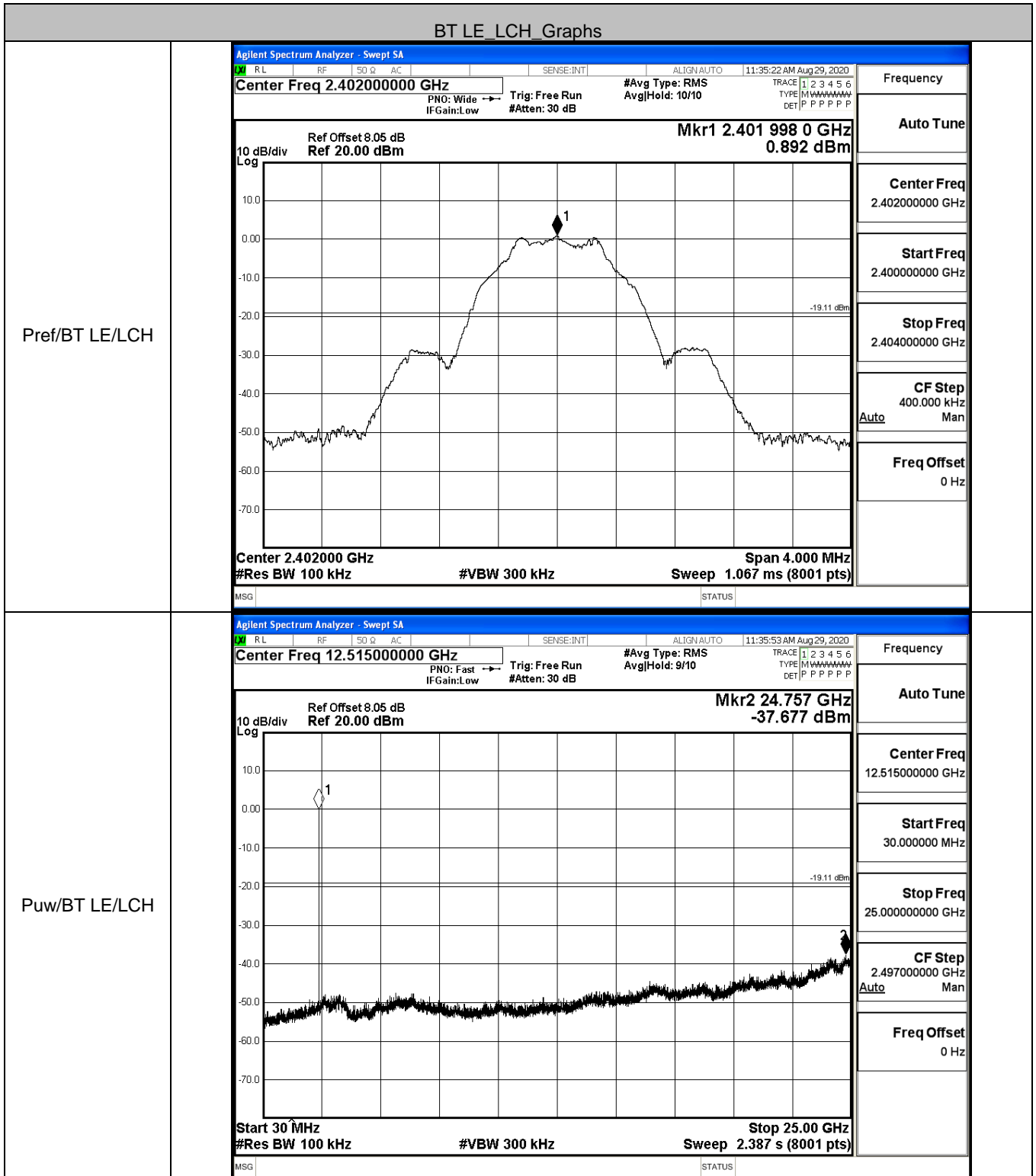
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6758	≥0.5	PASS
BT LE	MCH	0.6761	≥0.5	PASS
BT LE	HCH	0.6806	≥0.5	PASS

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 11:34:31 AM Aug 29, 2020</p> <p style="margin: 0;">Center Freq: 2.402000000 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="display: flex; justify-content: space-between;"> <div style="font-size: x-small;">                         10 dB/div Log Ref Offset 8.05 dB Ref 20.00 dBm                     </div> <div style="text-align: right;">                         Mkr1 2.4019974 GHz 0.87085 dBm                     </div> </div> <div style="display: flex; justify-content: space-between; font-size: x-small; margin-top: 5px;"> <span>Center 2.402 GHz</span> <span>#Res BW 100 kHz</span> <span>#VBW 300 kHz</span> <span>Span 3 MHz</span> <span>Sweep 1.067 ms</span> </div> <table border="0" style="width: 100%; font-size: small; margin-top: 5px;"> <tr> <td style="width: 33%;">Occupied Bandwidth</td> <td style="width: 33%;">Total Power</td> <td style="width: 33%;">7.58 dBm</td> </tr> <tr> <td style="text-align: center;"><b>1.0548 MHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>3.306 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>675.8 kHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">99.00 %</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">-6.00 dB</td> </tr> </table> <p style="font-size: x-small; margin-top: 5px;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	7.58 dBm	<b>1.0548 MHz</b>			Transmit Freq Error	3.306 kHz	OBW Power	x dB Bandwidth	675.8 kHz	x dB			99.00 %			-6.00 dB
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### B.5 RF Conducted Spurious Emissions

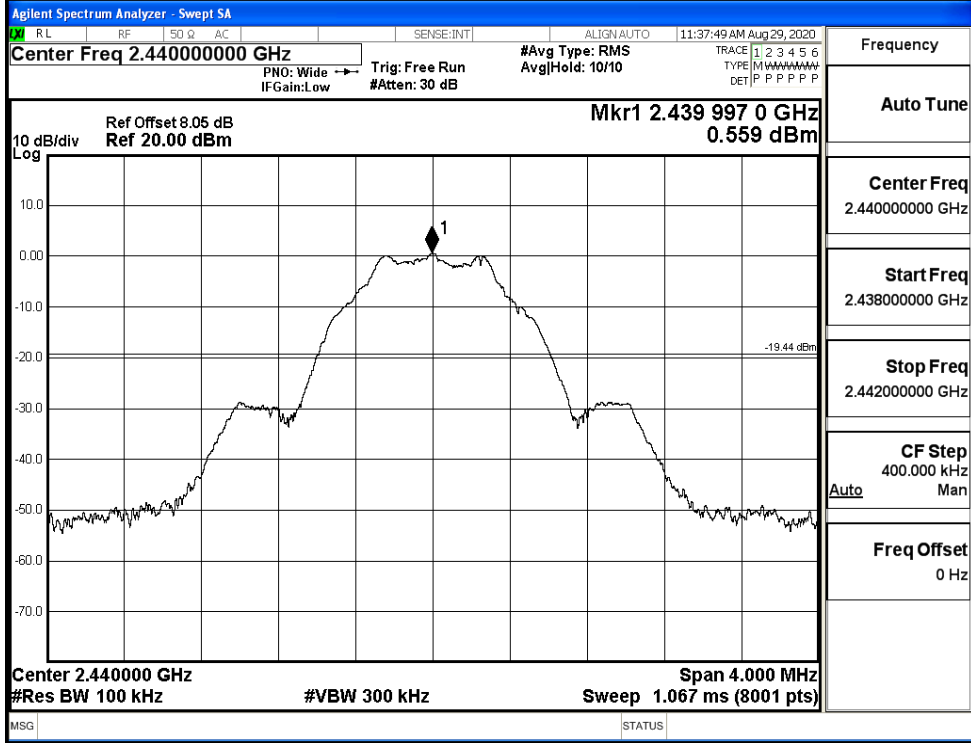
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.892	-37.677	-19.108	PASS
BT LE	MCH	0.559	-37.514	-19.441	PASS
BT LE	HCH	-0.032	-37.721	-20.032	PASS



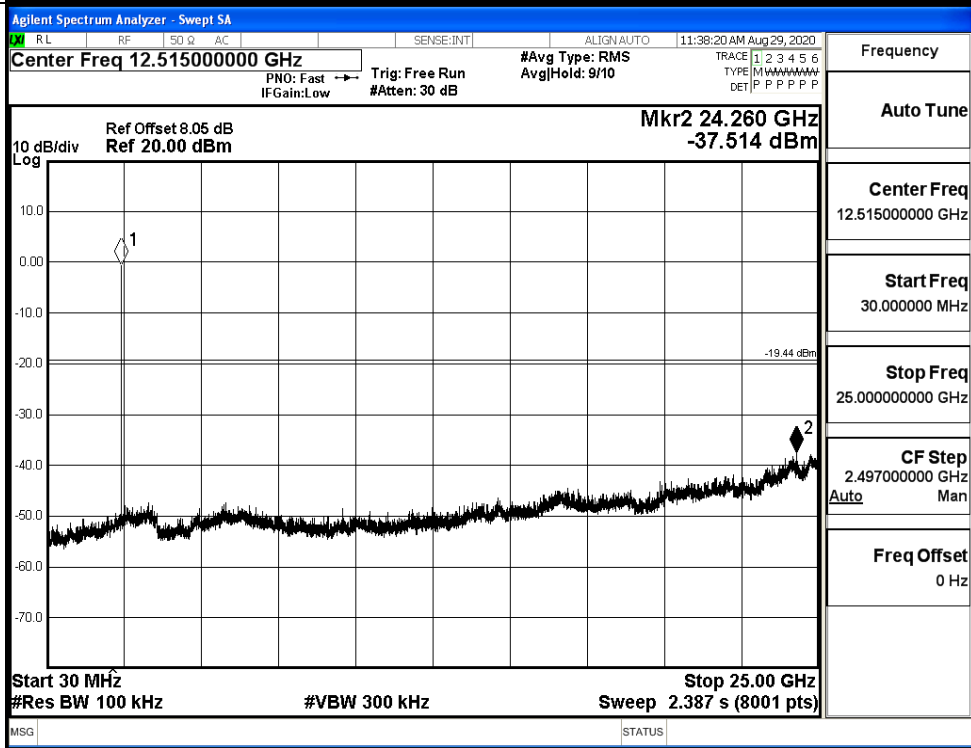


BT LE\_MCH\_Graphs

Pref/BT LE/MCH

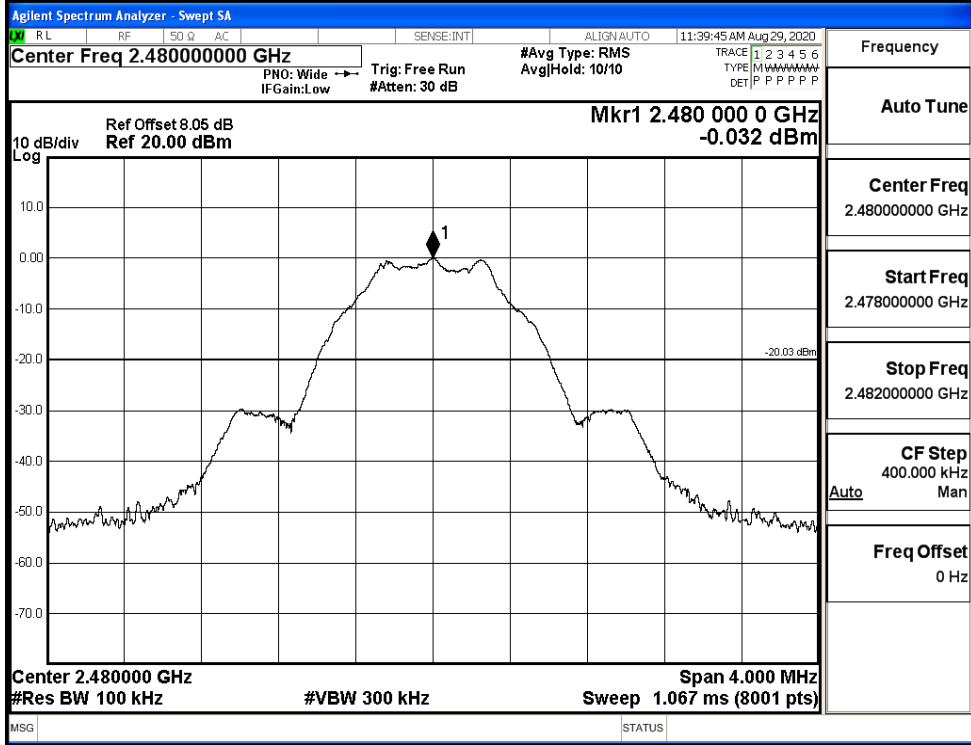


Puw/BT LE/MCH

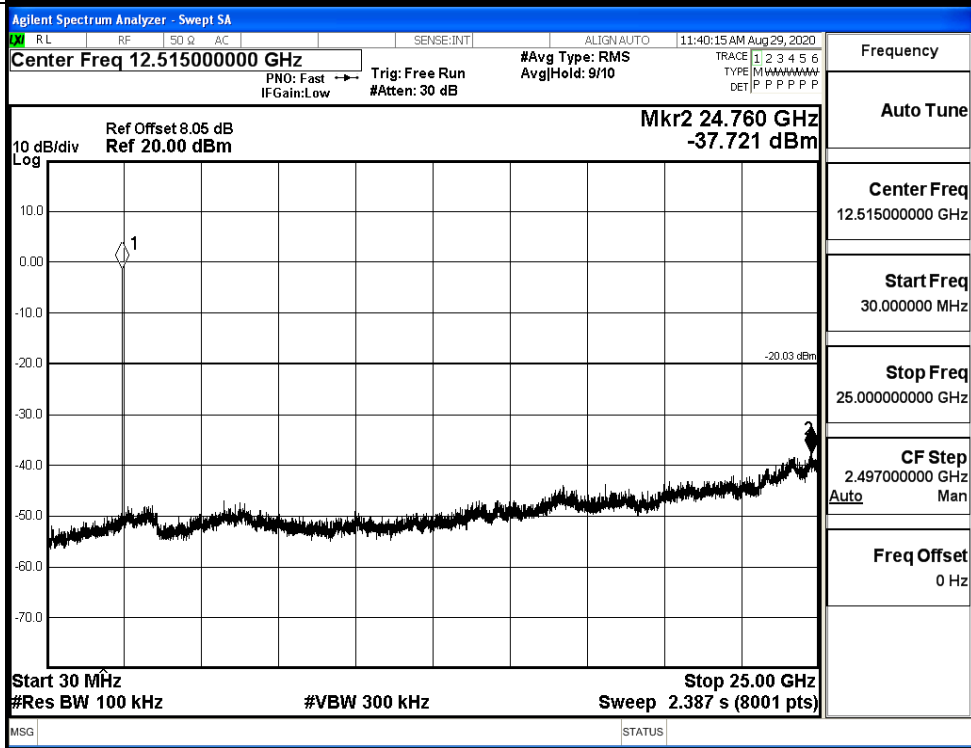


BT LE\_HCH\_Graphs

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	0.677	-49.796	-19.32	PASS
BT LE	HCH	0.038	-49.840	-19.96	PASS

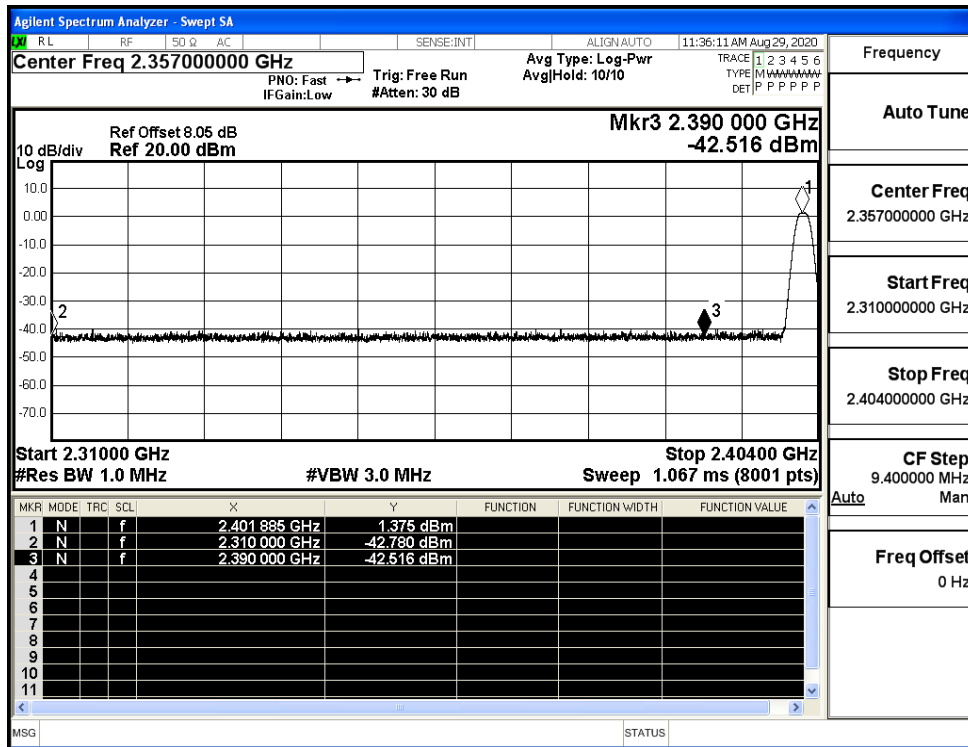
Test Graphs

LCH	<p>Agilent Spectrum Analyzer - Swept SA                  Center Freq 2.35700000 GHz                  Max Spurious Level -49.796 dBm                  Mkr4 2.318 578 GHz -49.796 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" style="font-size: small;"> <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>2.402 261 GHz</td><td>0.677 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>-51.493 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>-53.321 dBm</td><td></td><td></td><td></td></tr> <tr><td>4</td><td>N</td><td>f</td><td></td><td>2.318 578 GHz</td><td>-49.796 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		2.402 261 GHz	0.677 dBm				2	N	f		2.400 000 GHz	-51.493 dBm				3	N	f		2.390 000 GHz	-53.321 dBm				4	N	f		2.318 578 GHz	-49.796 dBm				Frequency Auto Tune Center Freq 2.35700000 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 2.48900000 GHz                  Max Spurious Level -49.840 dBm                  Mkr4 2.499 111 75 GHz -49.840 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" style="font-size: small;"> <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>2.480 002 00 GHz</td><td>0.038 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>-52.778 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>-51.775 dBm</td><td></td><td></td><td></td></tr> <tr><td>4</td><td>N</td><td>f</td><td></td><td>2.499 111 75 GHz</td><td>-49.840 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		2.480 002 00 GHz	0.038 dBm				2	N	f		2.483 500 00 GHz	-52.778 dBm				3	N	f		2.500 000 00 GHz	-51.775 dBm				4	N	f		2.499 111 75 GHz	-49.840 dBm				Frequency Auto Tune Center Freq 2.48900000 GHz Start Freq 2.478000000 GHz Stop Freq 2.500000000 GHz CF Step 2.200000 MHz Freq Offset 0 Hz
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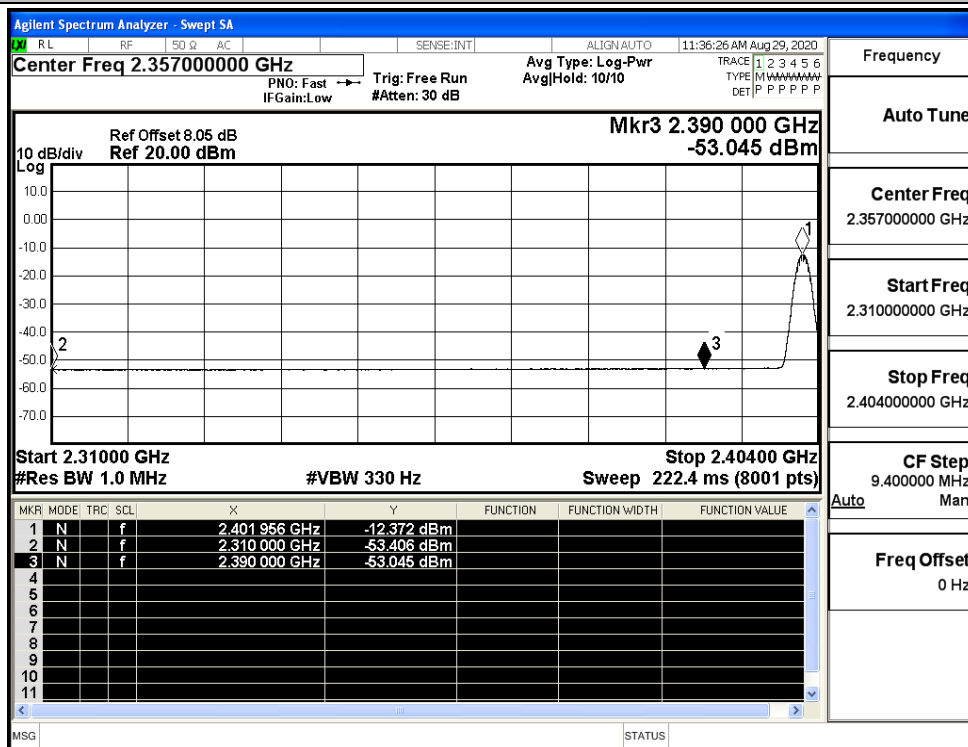
## B.7 Restrict-band band-edge measurements

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	-42.78	2.0	0	54.45	PEAK	74	PASS
		Ant1	2310.0	-53.41	2.0	0	43.82	AV	54	PASS
		Ant1	2390.0	-42.52	2.0	0	54.71	PEAK	74	PASS
		Ant1	2390.0	-53.05	2.0	0	44.18	AV	54	PASS
	2480	Ant1	2483.5	-42.52	2.0	0	54.71	PEAK	74	PASS
		Ant1	2483.5	-52.62	2.0	0	44.61	AV	54	PASS
		Ant1	2500.0	-42.09	2.0	0	55.14	PEAK	74	PASS
		Ant1	2500.0	-52.43	2.0	0	44.80	AV	54	PASS

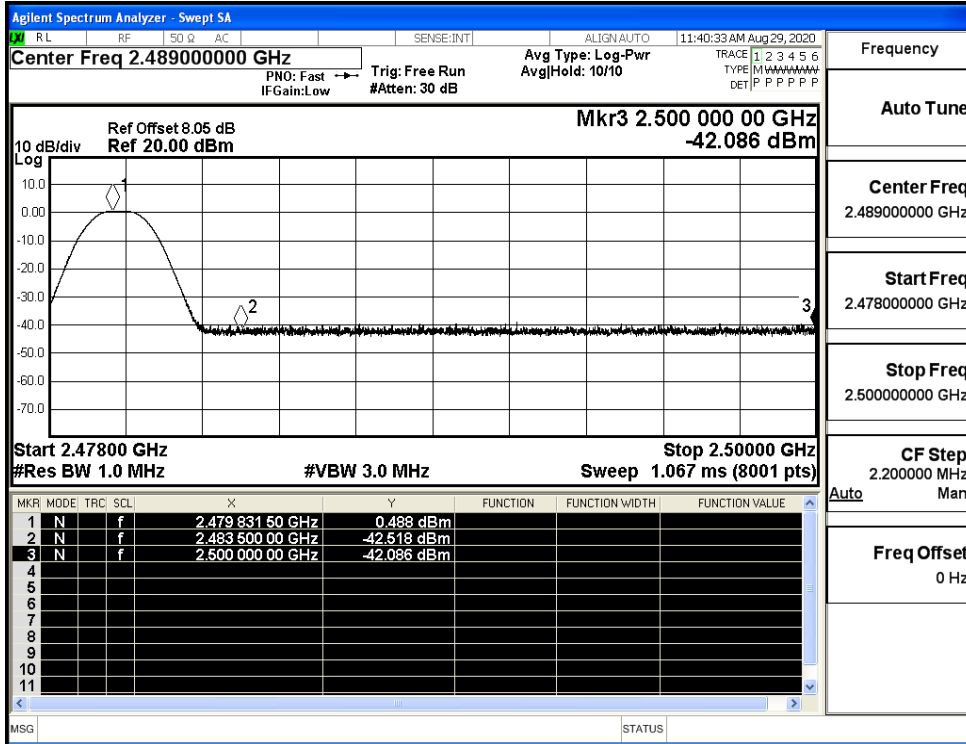
Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



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

