

## Appendix A

### RF Test Data for BT V4.0(LE) (Conducted Measurement)

Product Name: AXO power meter

Trade Mark: SIGEYI

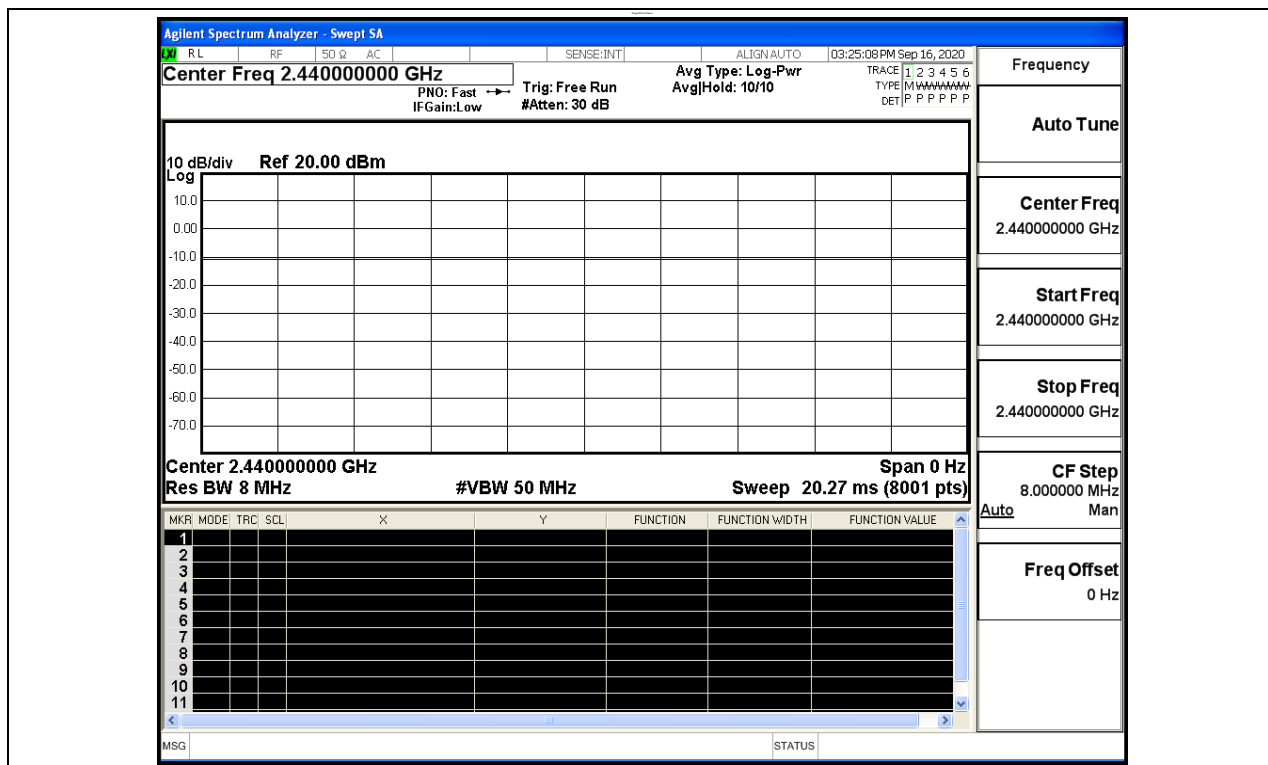
Test Model: PM013

#### Environmental Conditions

Temperature:	25.1 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jam Zheng
Supervised by:	Tom.Liu

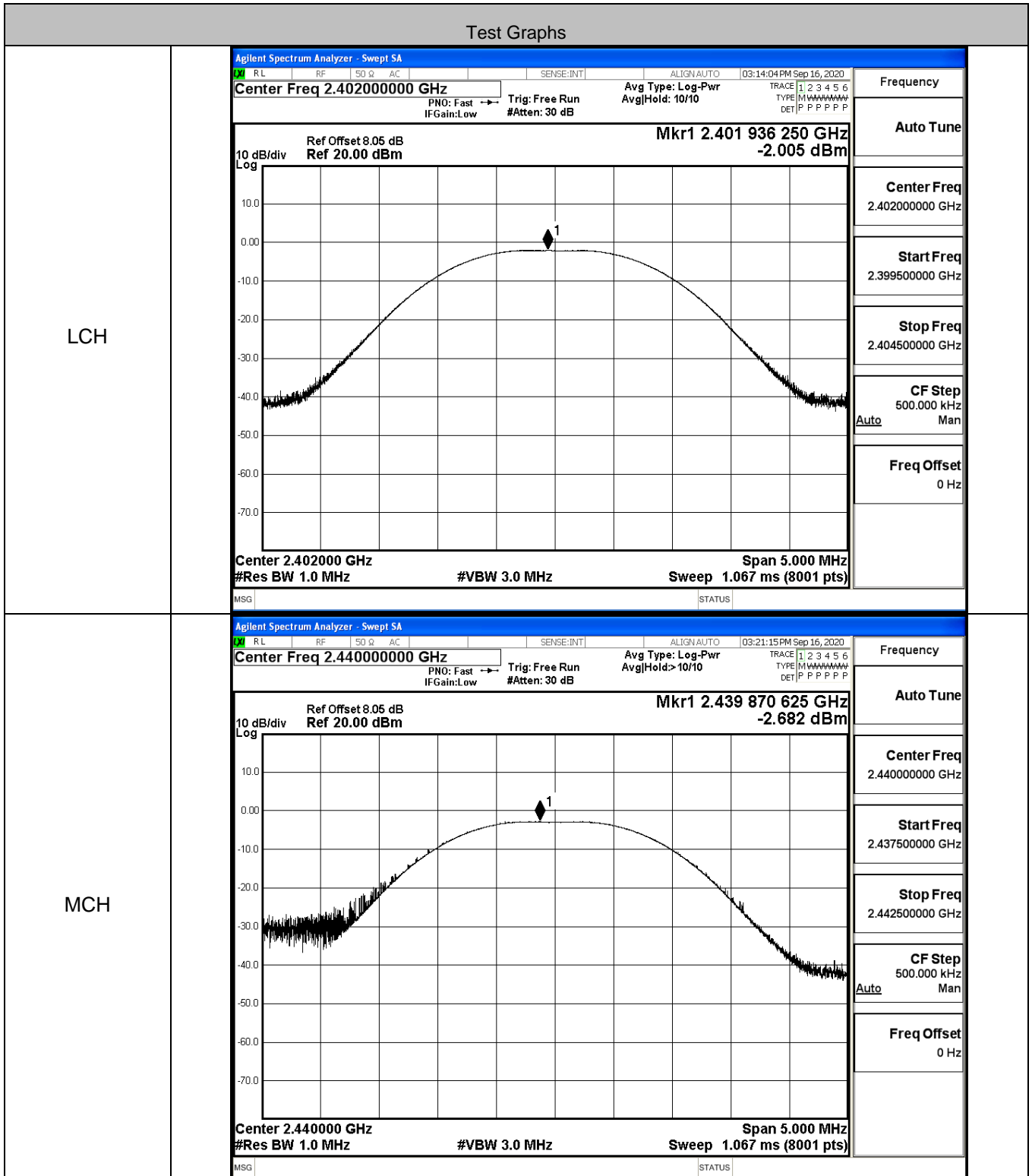
#### A.1 Duty Cycle

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

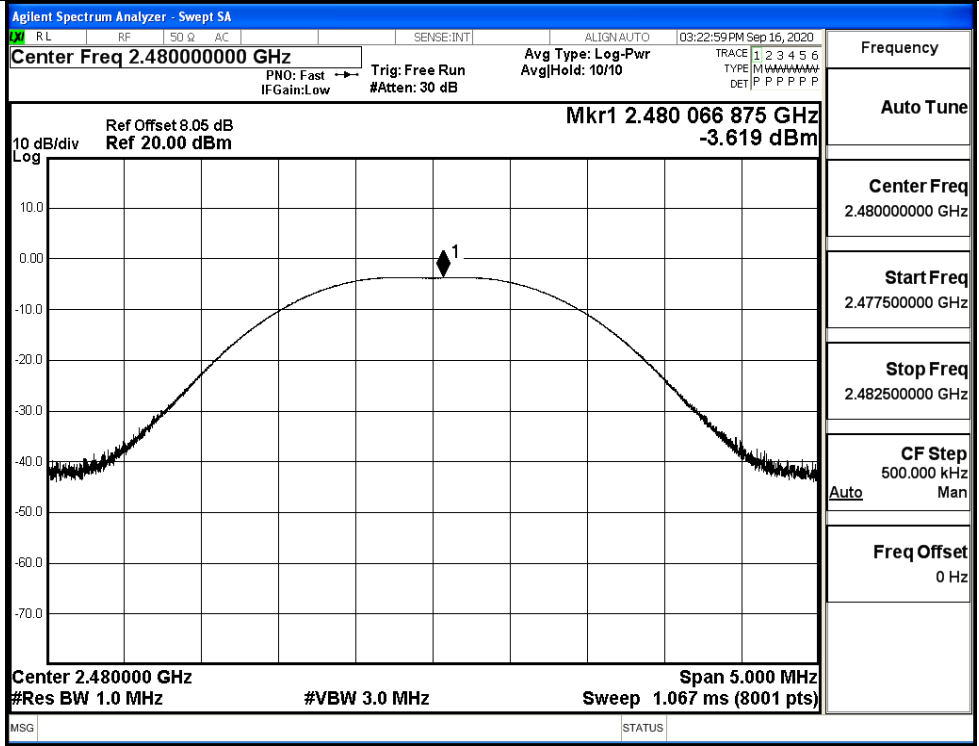


### A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.005	30	PASS
BT LE	MCH	-2.682	30	PASS
BT LE	HCH	-3.619	30	PASS



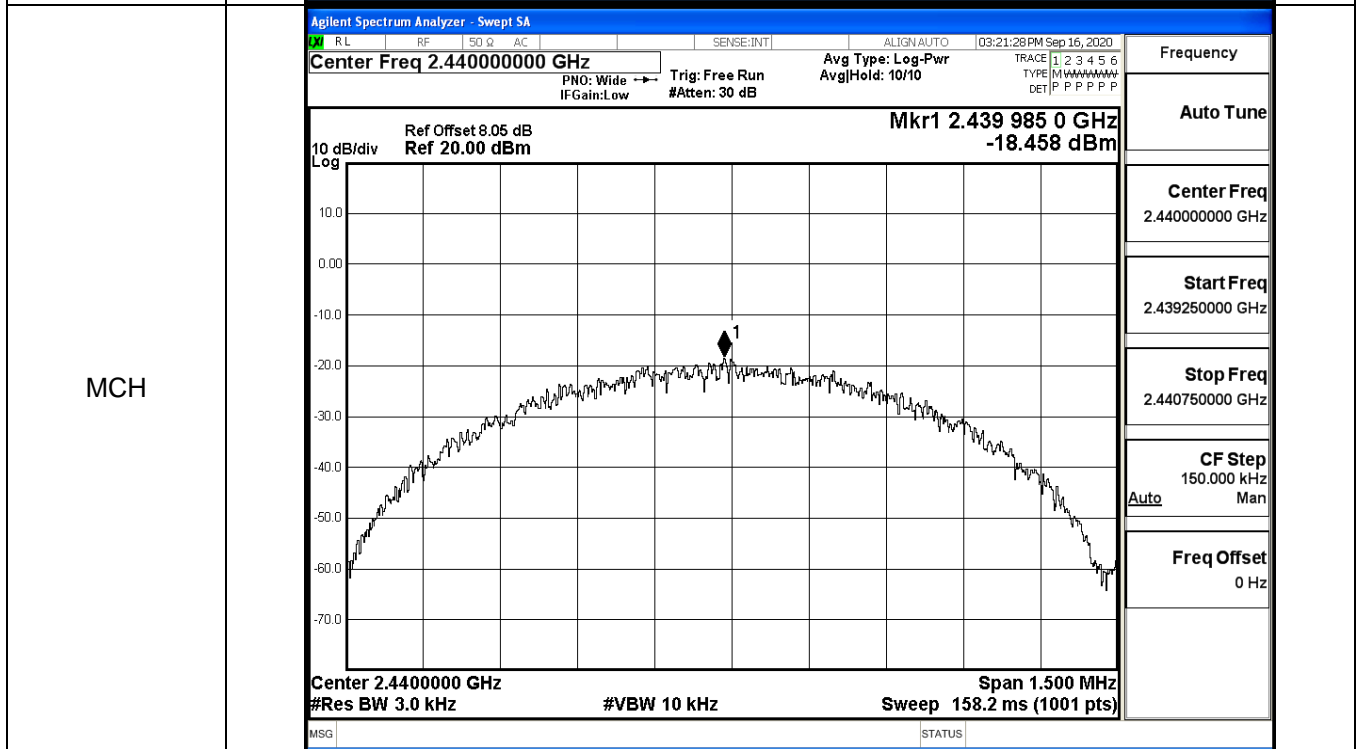
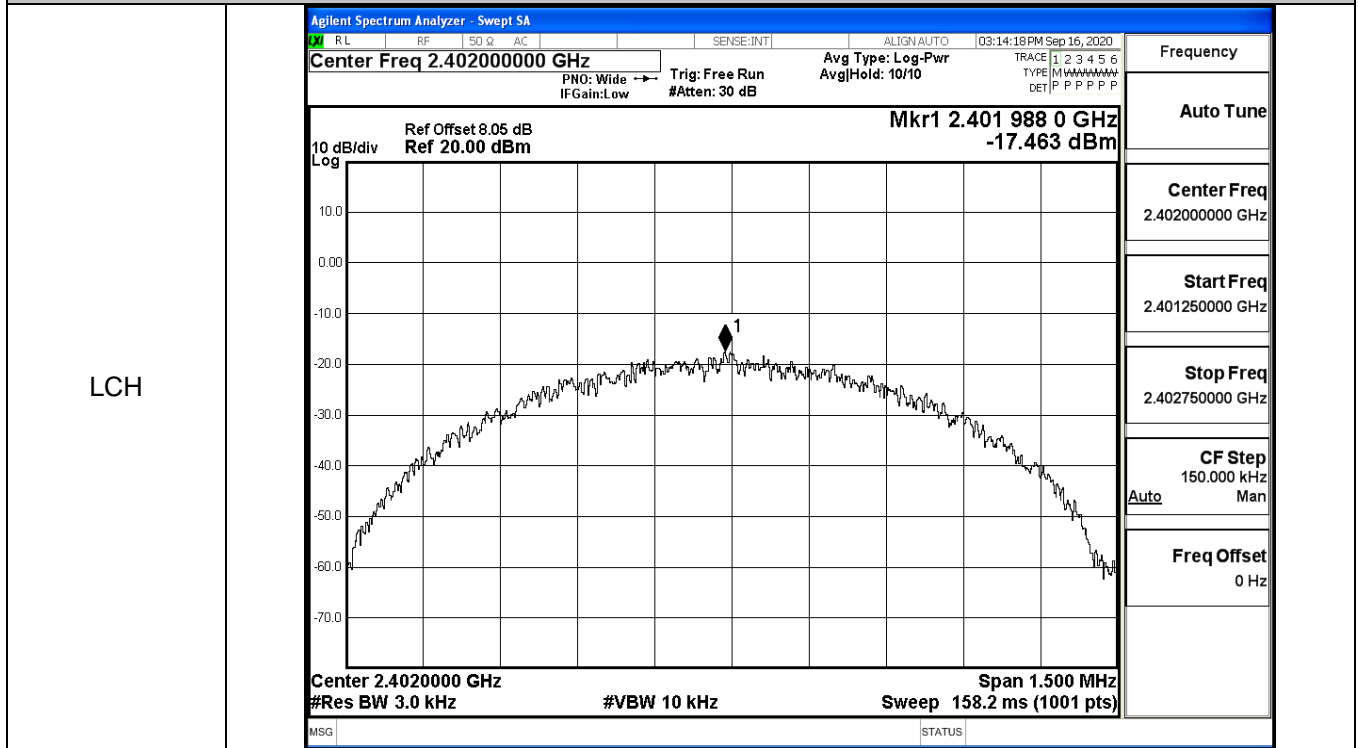
HCH



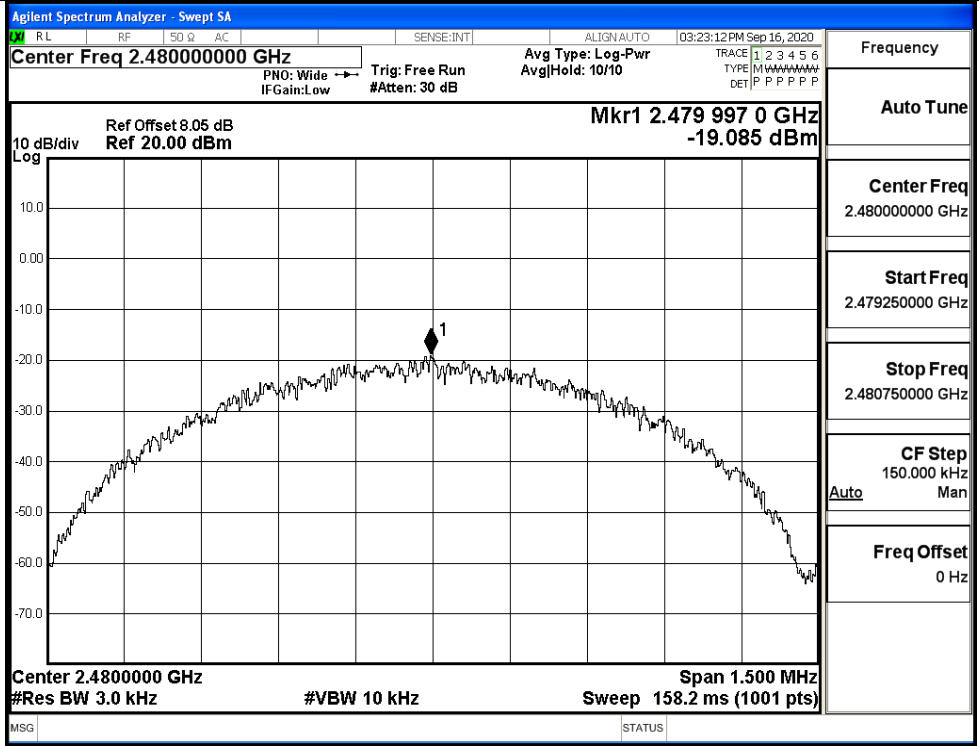
### A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.463	8	PASS
BT LE	MCH	-18.458	8	PASS
BT LE	HCH	-19.085	8	PASS

#### Test Graphs



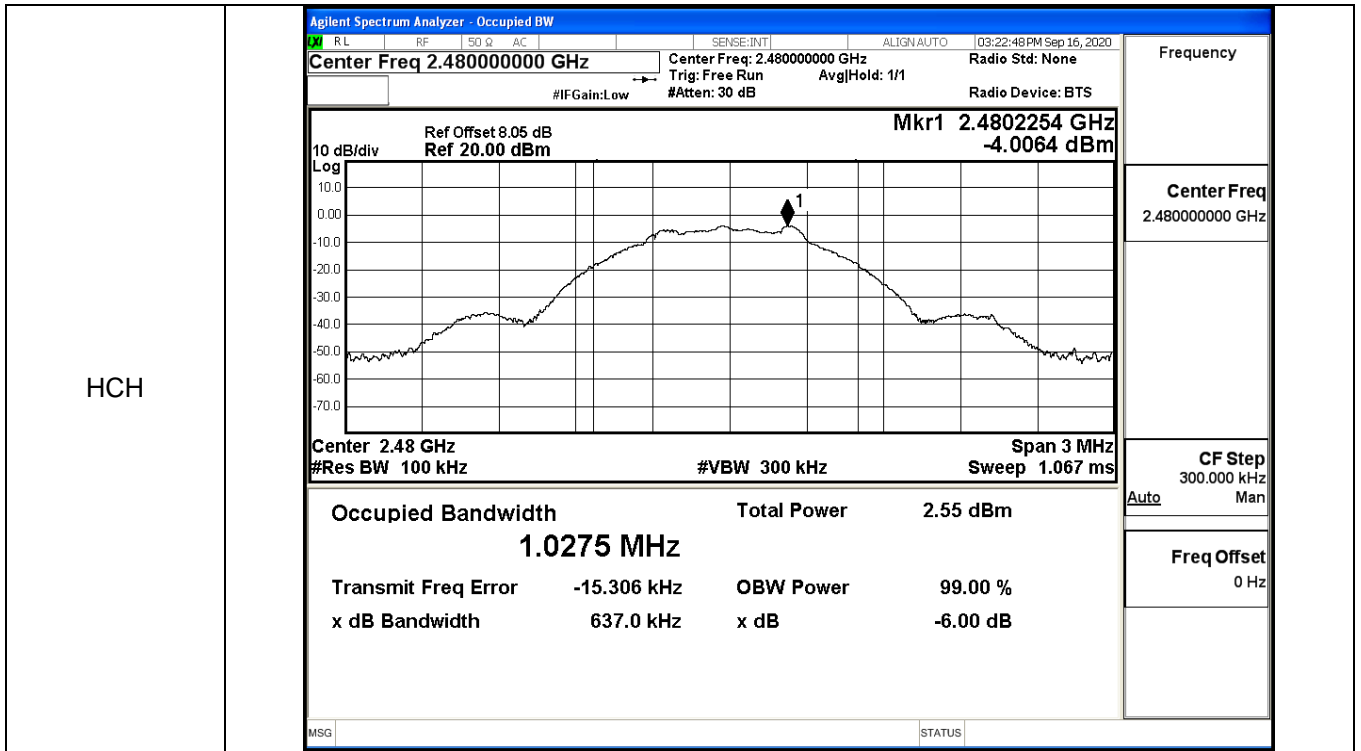
HCH



**A.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6505	≥0.5	PASS
BT LE	MCH	0.6471	≥0.5	PASS
BT LE	HCH	0.6370	≥0.5	PASS

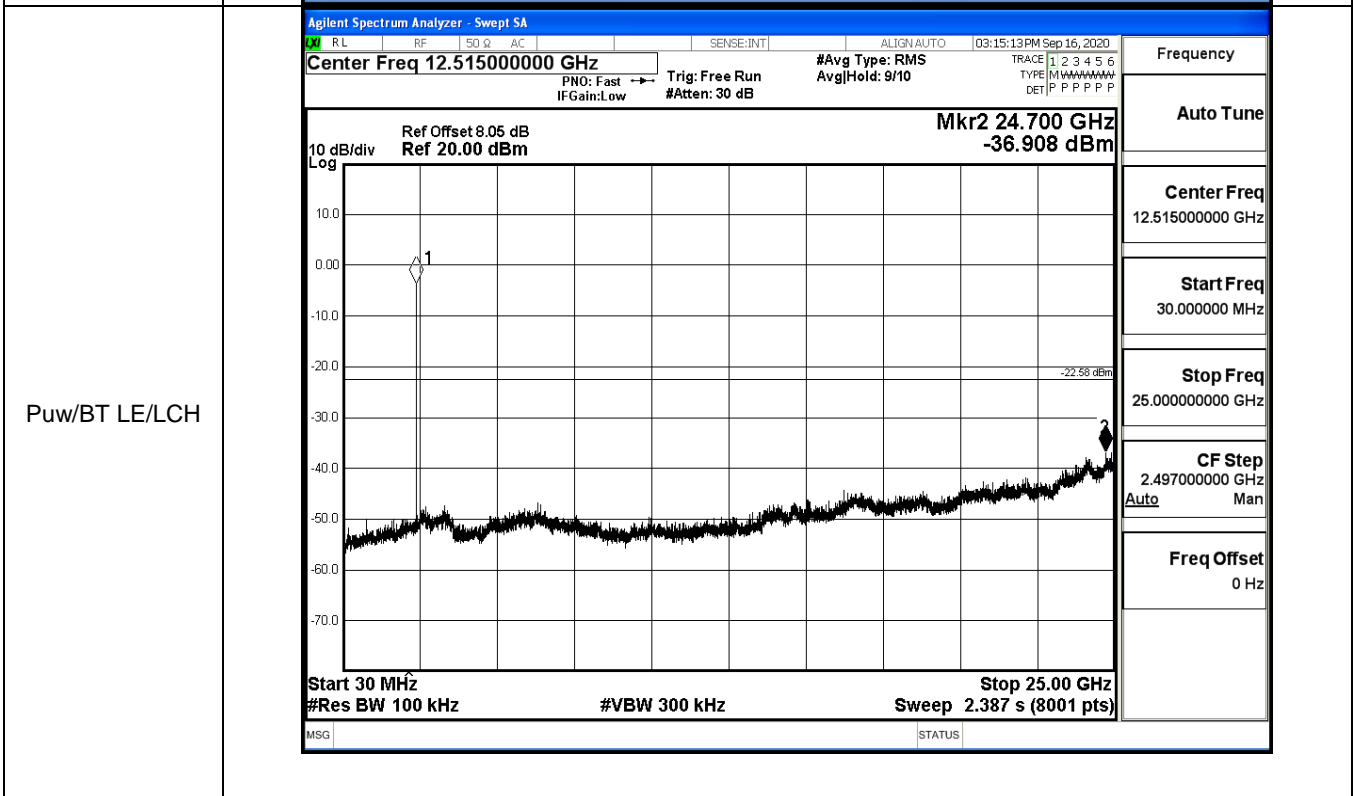
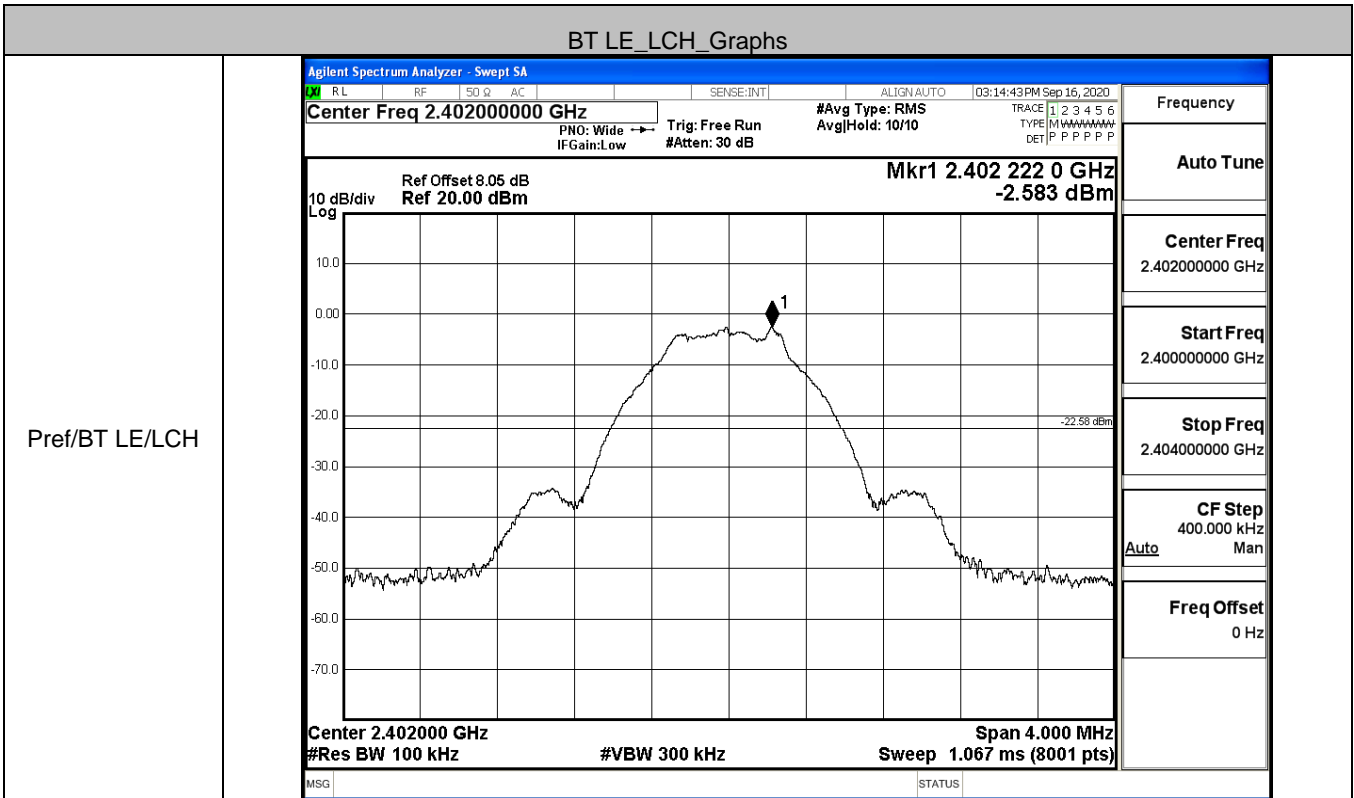
Test Graphs																	
LCH	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">Agilent Spectrum Analyzer - Occupied BW</p> <p style="font-size: small; margin: 0;">RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 03:12:50 PM Sep 16, 2020</p> <p style="margin: 0;">Center Freq 2.402000000 GHz Center Freq: 2.402000000 GHz Radio Std: None                      Trig: Free Run AvgHld: 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 2.40197 GHz                          -6.2611 dBm                     </div> </div> <div style="display: flex; justify-content: space-between; font-size: x-small; margin-top: 5px;"> <div>Center 2.402 GHz #Res BW 100 kHz</div> <div>#VBW 300 kHz</div> <div>Span 3 MHz Sweep 1.067 ms</div> </div> <table border="0" style="width: 100%; font-size: x-small; margin-top: 5px;"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td colspan="2">0.30 dBm</td> </tr> <tr> <td colspan="4" style="text-align: center;"><b>1.0289 MHz</b></td> </tr> <tr> <td>Transmit Freq Error</td> <td>-13.126 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>650.5 kHz</td> <td>x dB</td> <td>-6.00 dB</td> </tr> </table> <p style="font-size: x-small; margin-top: 5px;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	0.30 dBm		<b>1.0289 MHz</b>				Transmit Freq Error	-13.126 kHz	OBW Power	99.00 %	x dB Bandwidth	650.5 kHz	x dB	-6.00 dB
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<b>1.0328 MHz</b>																	
Transmit Freq Error	-14.962 kHz	OBW Power	99.00 %														
x dB Bandwidth	647.1 kHz	x dB	-6.00 dB														



### A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.583	-36.908	-22.583	PASS
BT LE	MCH	-3.229	-36.603	-23.229	PASS
BT LE	HCH	-4.164	-36.912	-24.164	PASS

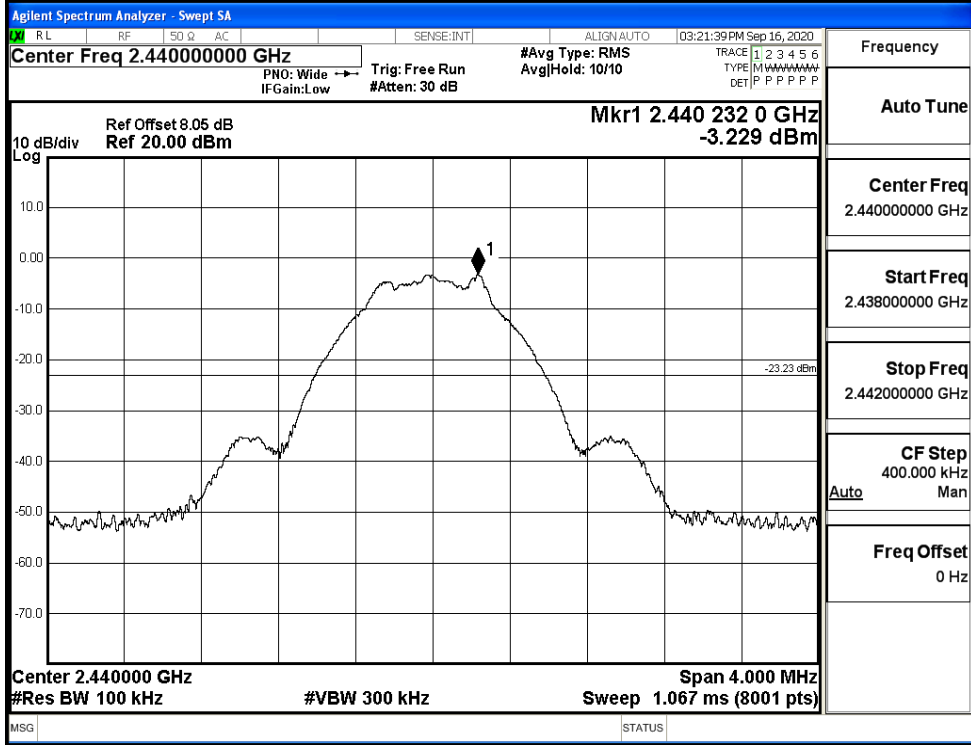
BT LE\_LCH\_Graphs



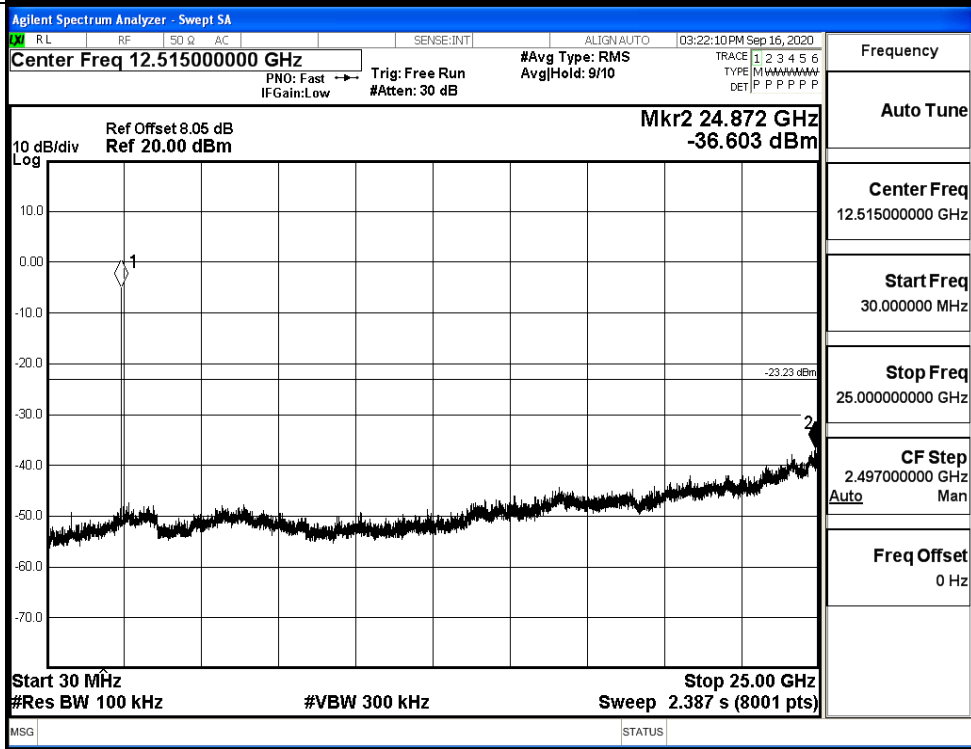


BT LE\_MCH\_Graphs

Pref/BT LE/MCH

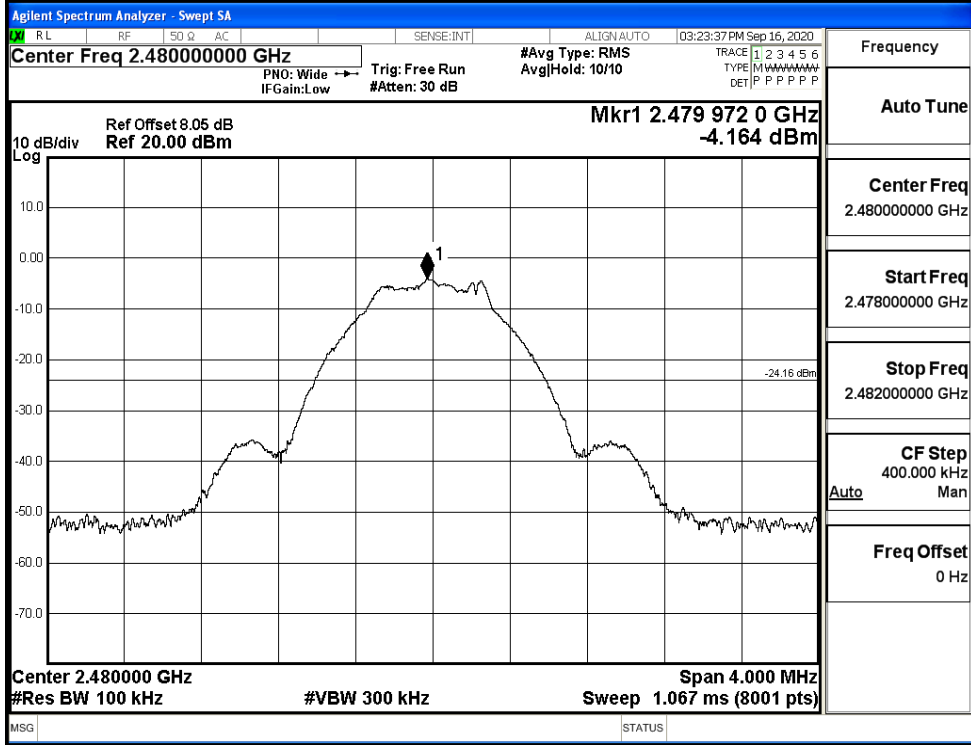


Puw/BT LE/MCH

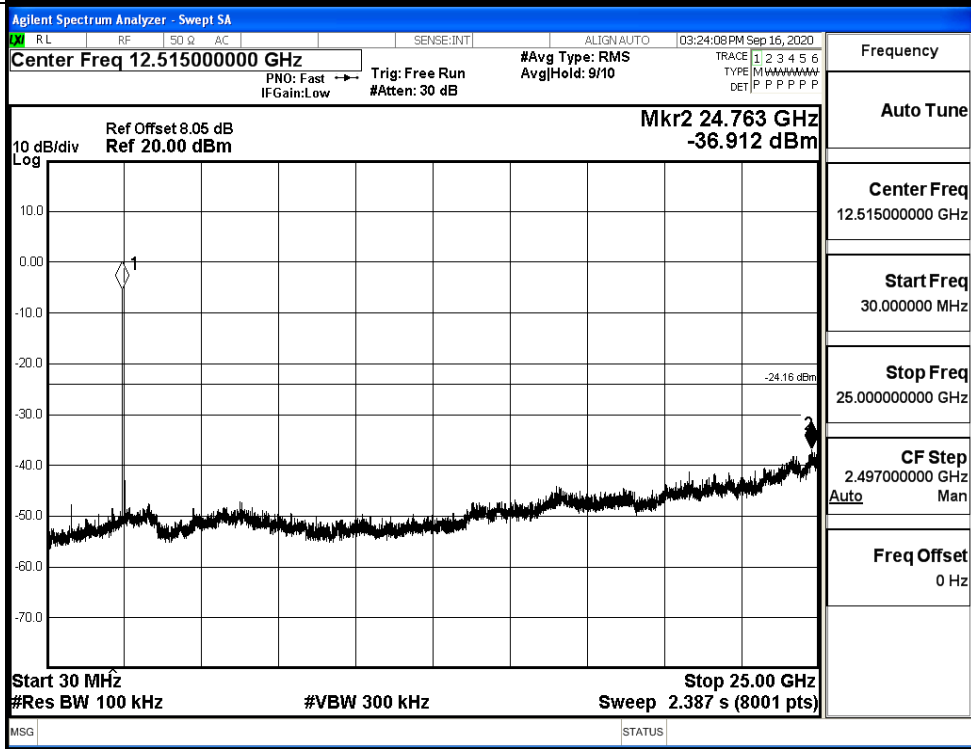


BT LE\_HCH\_Graphs

Pref/BT LE/HCH



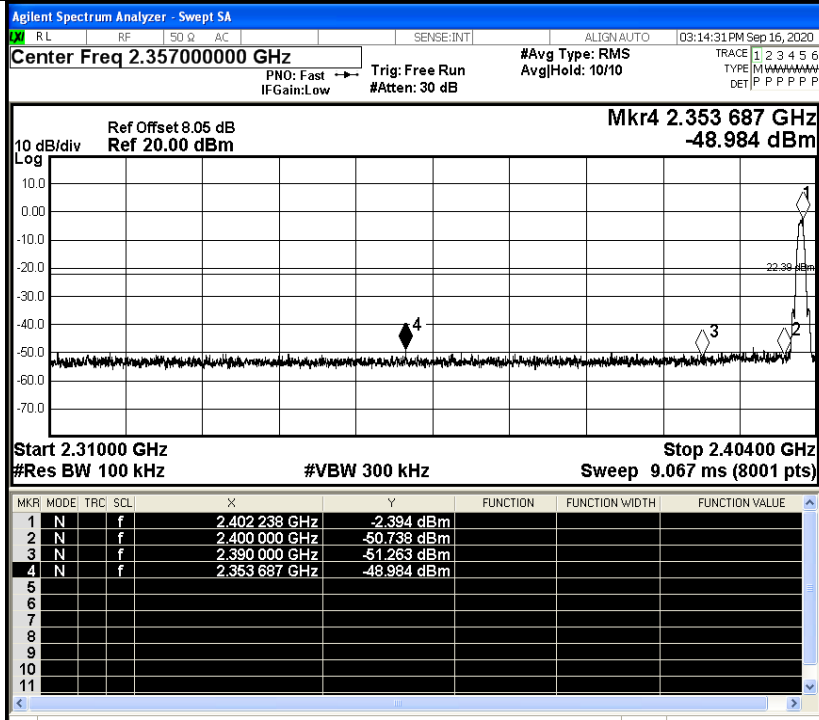
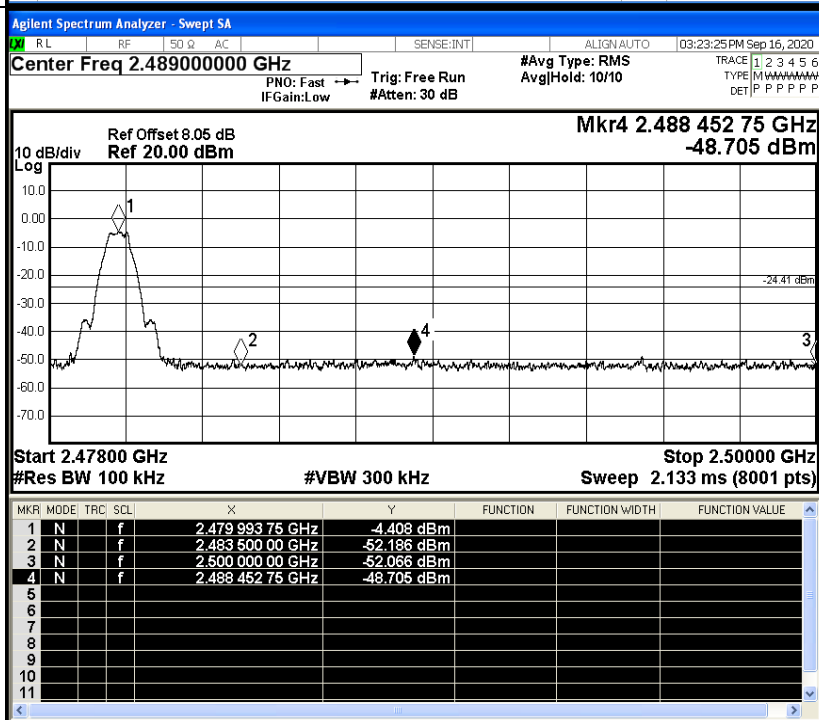
Puw/BT LE/HCH



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

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.394	-48.984	-22.39	PASS
BT LE	HCH	-4.408	-48.705	-24.41	PASS

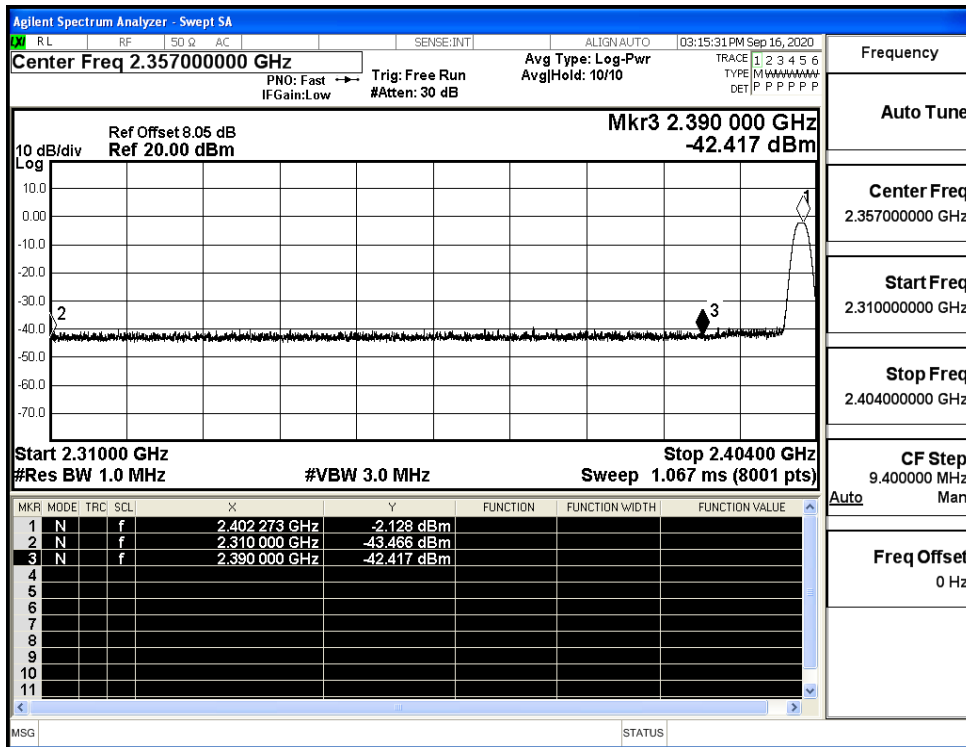
Test Graphs

LCH		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.35700000 GHz</p> <p>Start Freq 2.31000000 GHz</p> <p>Stop Freq 2.40400000 GHz</p> <p>CF Step 9.400000 MHz</p> <p>Freq Offset 0 Hz</p>
HCH		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.48900000 GHz</p> <p>Start Freq 2.47800000 GHz</p> <p>Stop Freq 2.50000000 GHz</p> <p>CF Step 2.200000 MHz</p> <p>Freq Offset 0 Hz</p>

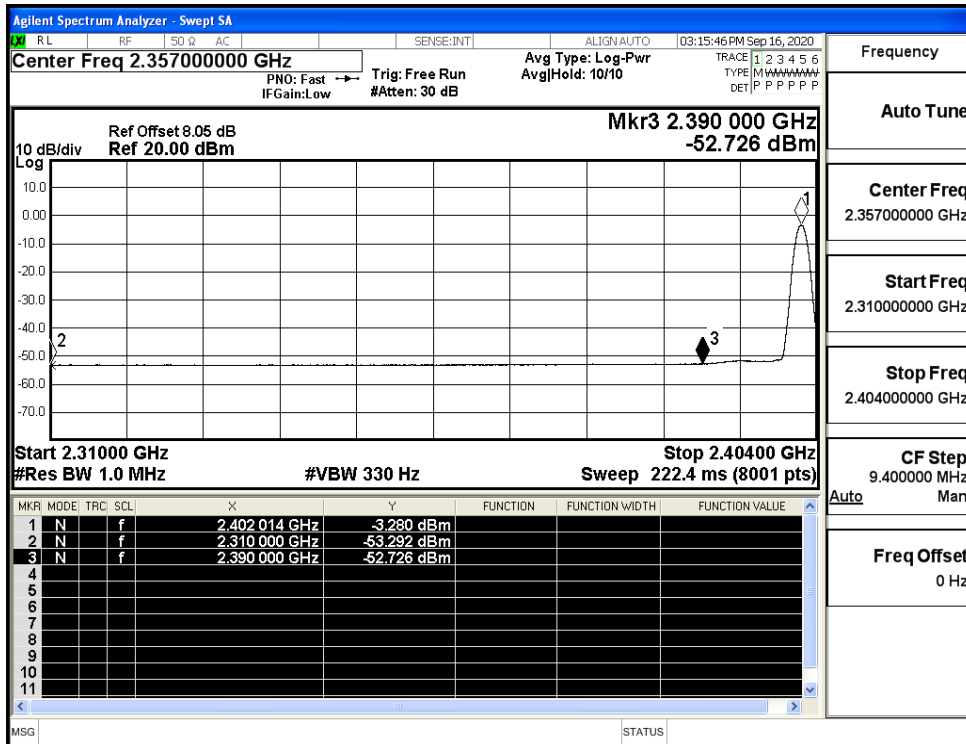
## A.7 Restrict-band band-edge measurements

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	51.79	PEAK	74	PASS
		Ant1	2310.0	-53.29	2.0	0	41.97	AV	54	PASS
		Ant1	2390.0	-42.42	2.0	0	52.84	PEAK	74	PASS
		Ant1	2390.0	-52.73	2.0	0	42.53	AV	54	PASS
	2480	Ant1	2483.5	-41.52	2.0	0	53.73	PEAK	74	PASS
		Ant1	2483.5	-51.98	2.0	0	43.27	AV	54	PASS
		Ant1	2500.0	-42.12	2.0	0	53.14	PEAK	74	PASS
		Ant1	2500.0	-52.27	2.0	0	42.99	AV	54	PASS

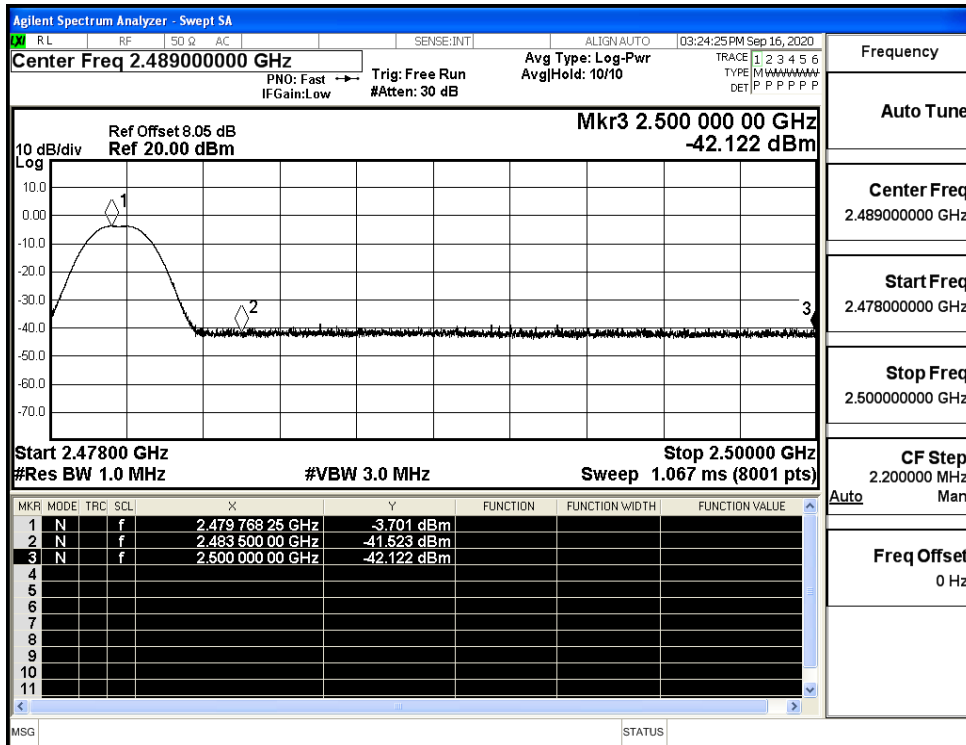
Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



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

