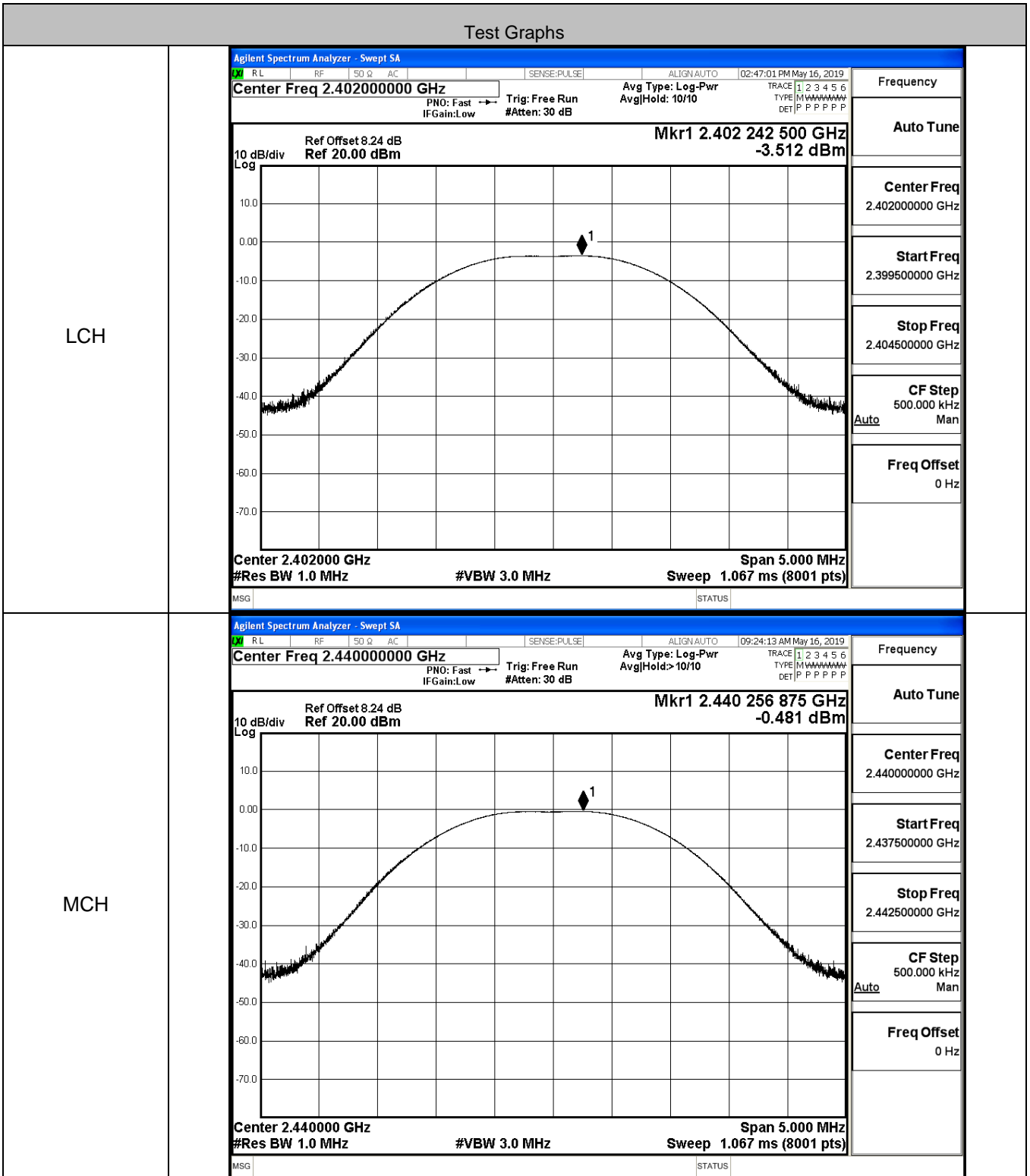




### B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.512	30	PASS
BT LE	MCH	-0.481	30	PASS
BT LE	HCH	-1.892	30	PASS

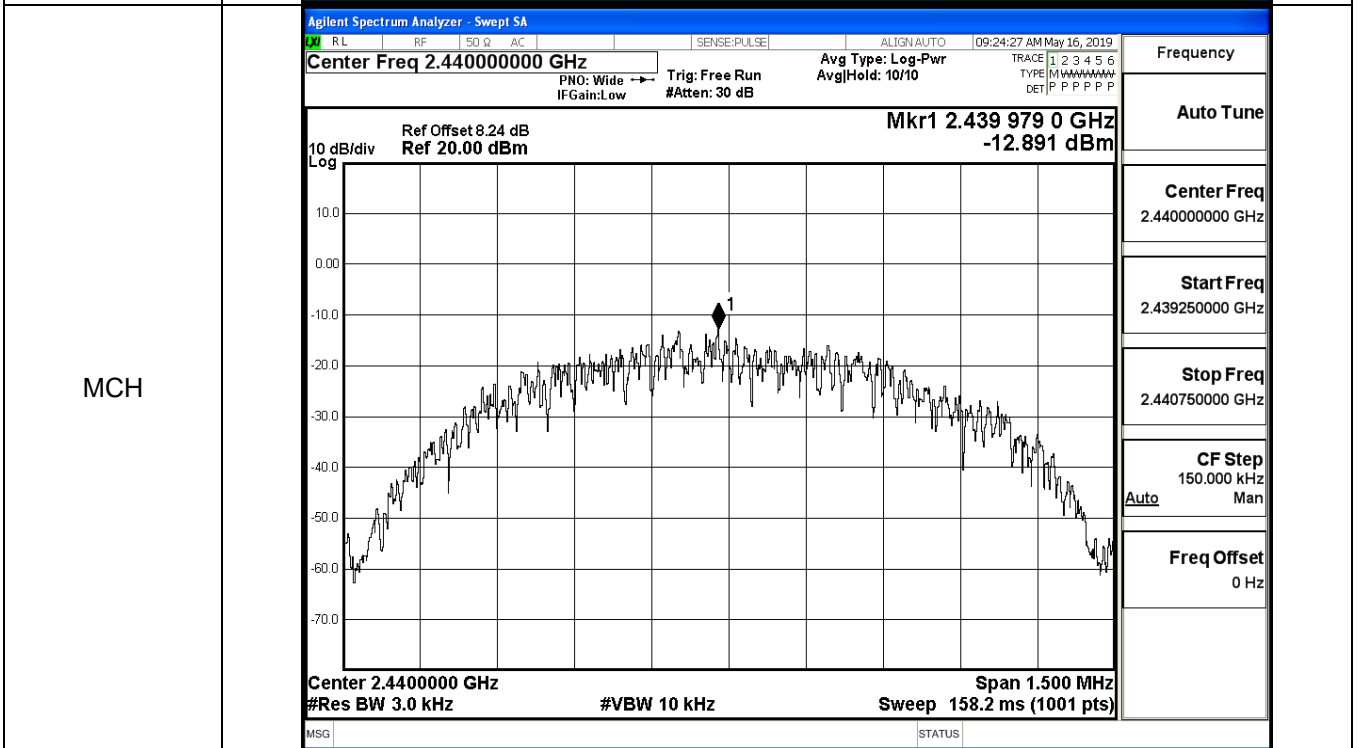
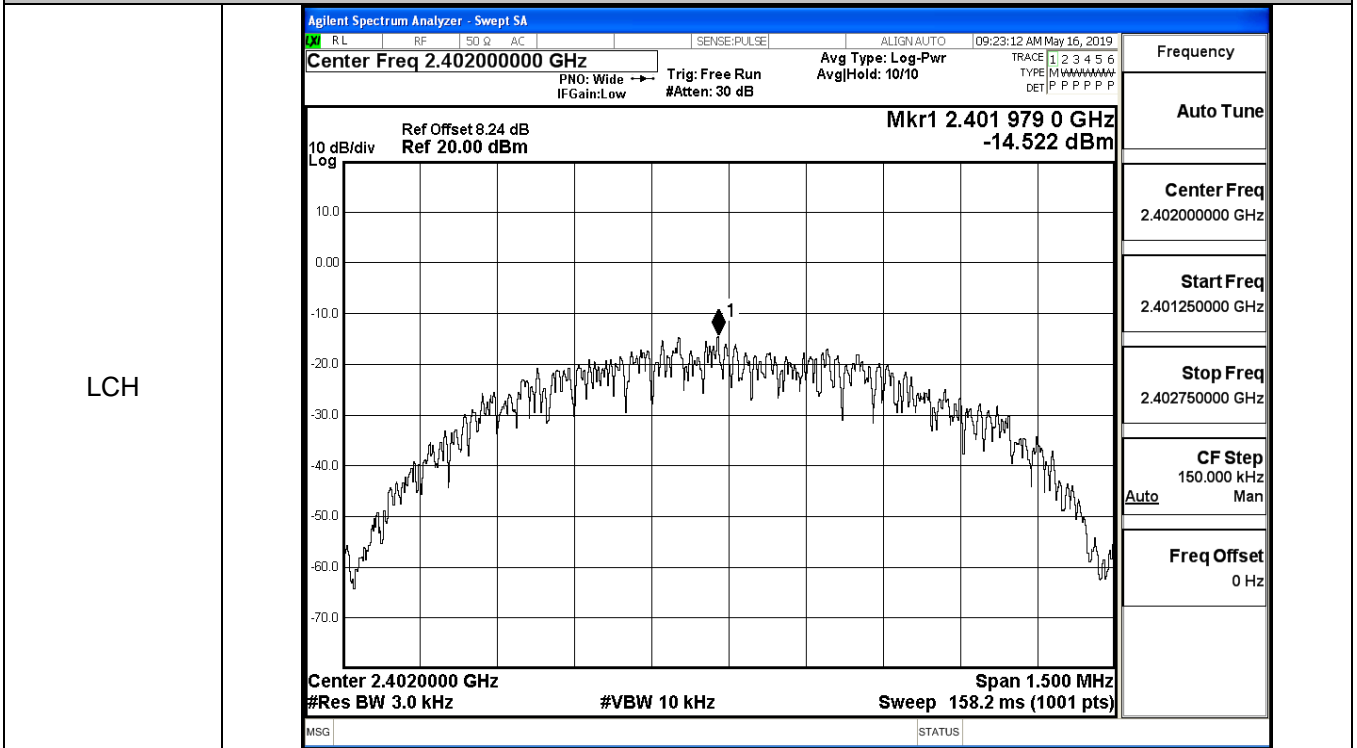




### B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.522	8	PASS
BT LE	MCH	-12.891	8	PASS
BT LE	HCH	-15.876	8	PASS

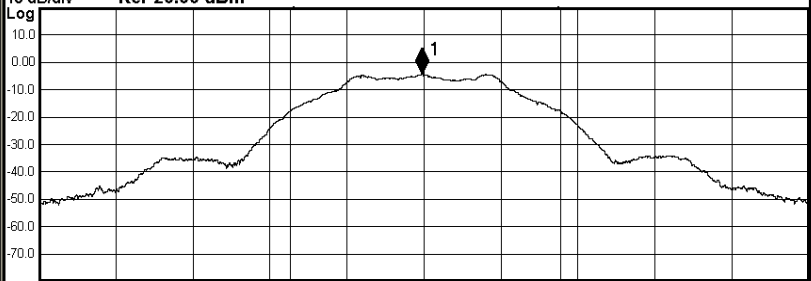
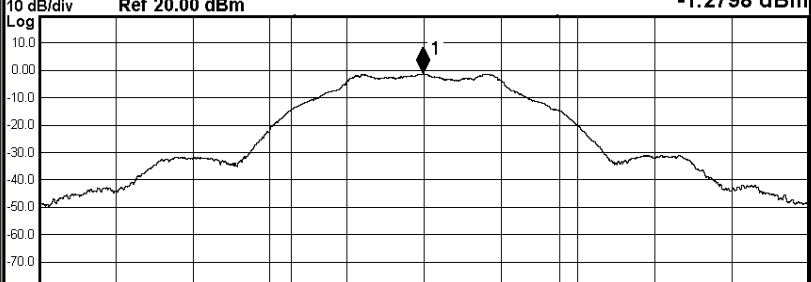
#### Test Graphs





**B.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6909	≥0.5	PASS
BT LE	MCH	0.6771	≥0.5	PASS
BT LE	HCH	0.7001	≥0.5	PASS

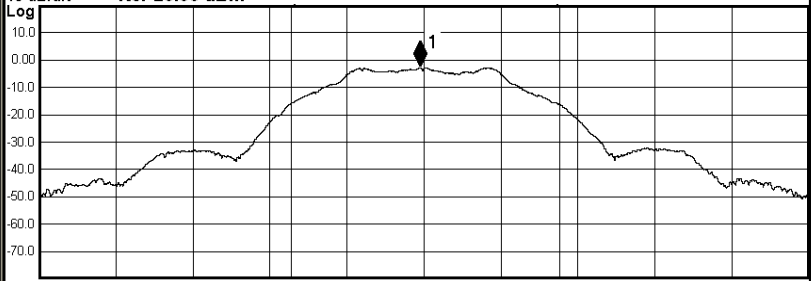
Test Graphs																			
LCH	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">Agilent Spectrum Analyzer - Occupied BW</p> <p style="font-size: small; margin: 0;">RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 02:46:48 PM May 16, 2019</p> <p style="margin: 0;">Center Freq 2.402000000 GHz Center Freq: 2.402000000 GHz Radio Std: None</p> <p style="margin: 0;">Trig: Free Run AvgHold: 1/1 Radio Device: BTS</p> <p style="margin: 0;">#IFGain:Low #Atten: 30 dB</p> <div style="border: 1px solid black; padding: 2px; margin: 5px 0;"> <p style="font-size: x-small; margin: 0;">10 dB/div Ref Offset 8.24 dB Mkr1 2.4019925 GHz</p> <p style="font-size: x-small; margin: 0;">Log Ref 20.00 dBm -4.3706 dBm</p>  </div> <p style="font-size: x-small; margin: 0;">Center 2.402 GHz Span 3 MHz</p> <p style="font-size: x-small; margin: 0;">#Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms</p> <table style="width: 100%; font-size: x-small; border-collapse: collapse;"> <tr> <td style="width: 33%;">Occupied Bandwidth</td> <td style="width: 33%;">Total Power</td> <td style="width: 33%;">2.66 dBm</td> </tr> <tr> <td style="text-align: center;"><b>1.0522 MHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>6.537 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>690.9 kHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td>-6.00 dB</td> </tr> </table> <p style="font-size: x-small; margin: 0;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	2.66 dBm	<b>1.0522 MHz</b>			Transmit Freq Error	6.537 kHz	OBW Power	x dB Bandwidth	690.9 kHz	x dB			99.00 %			-6.00 dB
Occupied Bandwidth	Total Power	2.66 dBm																	
<b>1.0522 MHz</b>																			
Transmit Freq Error	6.537 kHz	OBW Power																	
x dB Bandwidth	690.9 kHz	x dB																	
		99.00 %																	
		-6.00 dB																	
MCH	<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:PULSE ALIGN:AUTO 09:24:02 AM May 16, 2019</p> <p style="margin: 0;">Center Freq 2.440000000 GHz Center Freq: 2.440000000 GHz Radio Std: None</p> <p style="margin: 0;">Trig: Free Run AvgHold: 1/1 Radio Device: BTS</p> <p style="margin: 0;">#IFGain:Low #Atten: 30 dB</p> <div style="border: 1px solid black; padding: 2px; margin: 5px 0;"> <p style="font-size: x-small; margin: 0;">10 dB/div Ref Offset 8.24 dB Mkr1 2.4399978 GHz</p> <p style="font-size: x-small; margin: 0;">Log Ref 20.00 dBm -1.2798 dBm</p>  </div> <p style="font-size: x-small; margin: 0;">Center 2.44 GHz Span 3 MHz</p> <p style="font-size: x-small; margin: 0;">#Res BW 100 kHz #VBW 300 kHz Sweep 1.067 ms</p> <table style="width: 100%; font-size: x-small; border-collapse: collapse;"> <tr> <td style="width: 33%;">Occupied Bandwidth</td> <td style="width: 33%;">Total Power</td> <td style="width: 33%;">5.77 dBm</td> </tr> <tr> <td style="text-align: center;"><b>1.0474 MHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>5.598 kHz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>677.1 kHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td>-6.00 dB</td> </tr> </table> <p style="font-size: x-small; margin: 0;">MSG STATUS</p> </div>	Occupied Bandwidth	Total Power	5.77 dBm	<b>1.0474 MHz</b>			Transmit Freq Error	5.598 kHz	OBW Power	x dB Bandwidth	677.1 kHz	x dB			99.00 %			-6.00 dB
Occupied Bandwidth	Total Power	5.77 dBm																	
<b>1.0474 MHz</b>																			
Transmit Freq Error	5.598 kHz	OBW Power																	
x dB Bandwidth	677.1 kHz	x dB																	
		99.00 %																	
		-6.00 dB																	

HCH

Agilent Spectrum Analyzer - Occupied BW

RL	RF	50 Ω	AC	SENSE:PULSE	ALIGN:AUTO	02:50:56 PM May 16, 2019
<b>Center Freq 2.480000000 GHz</b>			Center Freq: 2.480000000 GHz		Radio Std: None	
			Trig: Free Run		AvgJHold>1/1	
#IFGain:Low			#Atten: 30 dB		Radio Device: BTS	

10 dB/div	Ref Offset 8.24 dB	<b>Mkr1 2.4799858 GHz</b>
Log	Ref 20.00 dBm	<b>-2.7863 dBm</b>



Center 2.48 GHz	#VBW 300 kHz	Span 3 MHz
#Res BW 100 kHz		Sweep 1.067 ms

<b>Occupied Bandwidth</b>	<b>Total Power</b>	<b>4.37 dBm</b>
<b>1.0440 MHz</b>		
Transmit Freq Error	5.642 kHz	OBW Power 99.00 %
x dB Bandwidth	700.1 kHz	x dB -6.00 dB

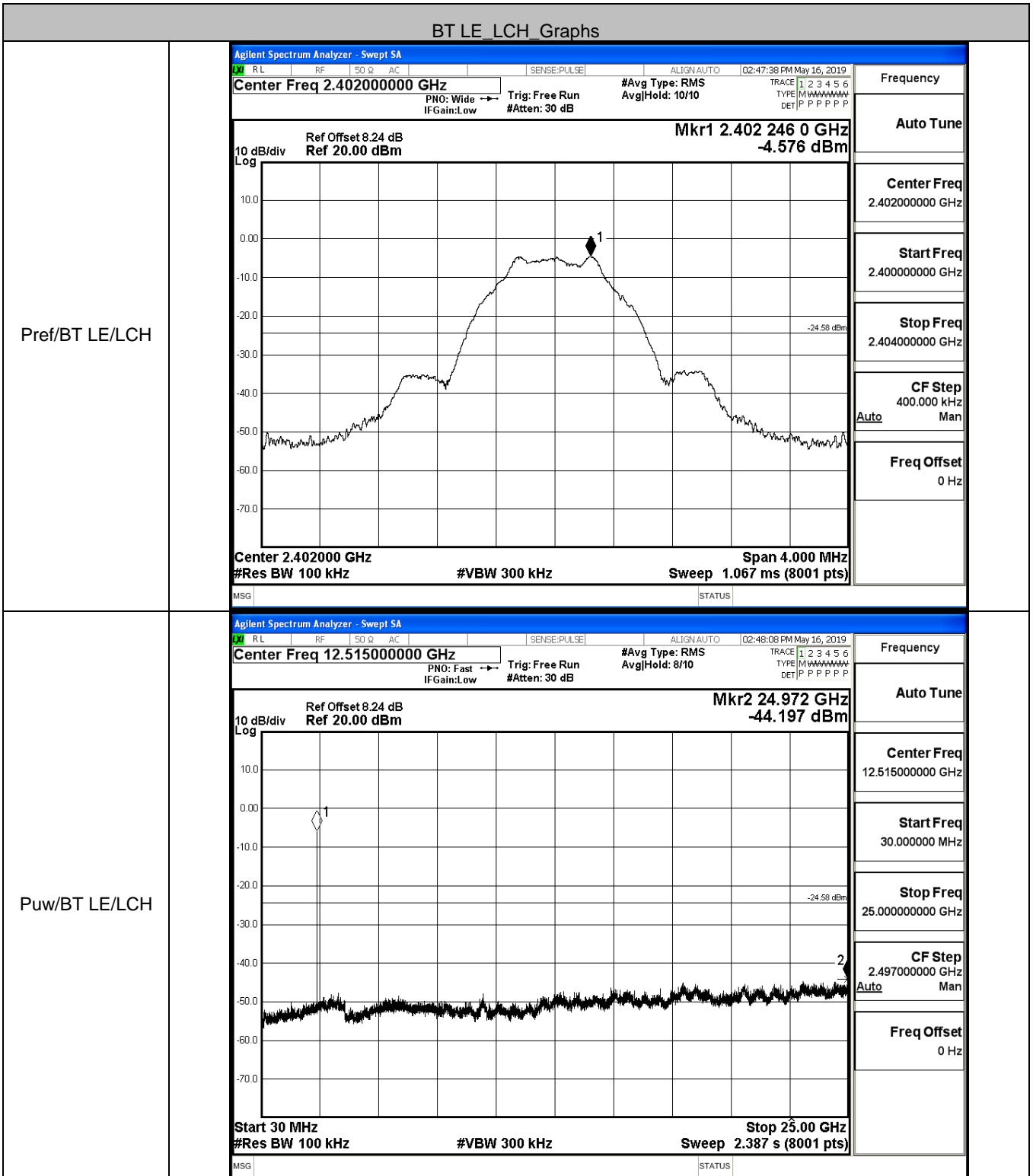
Frequency	
Center Freq	2.480000000 GHz
CF Step	300.000 kHz
	Auto Man
Freq Offset	0 Hz

MSG

STATUS

### B.5 RF Conducted Spurious Emissions

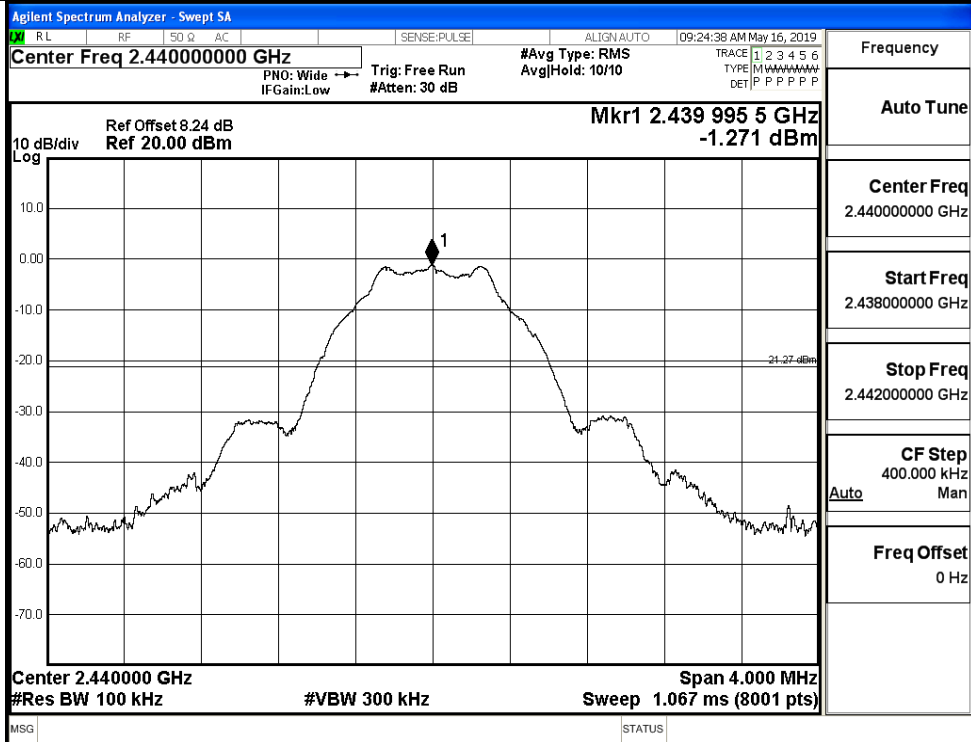
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.576	-44.197	-24.576	PASS
BT LE	MCH	-1.271	-44.005	-21.271	PASS
BT LE	HCH	-2.696	-44.215	-22.696	PASS



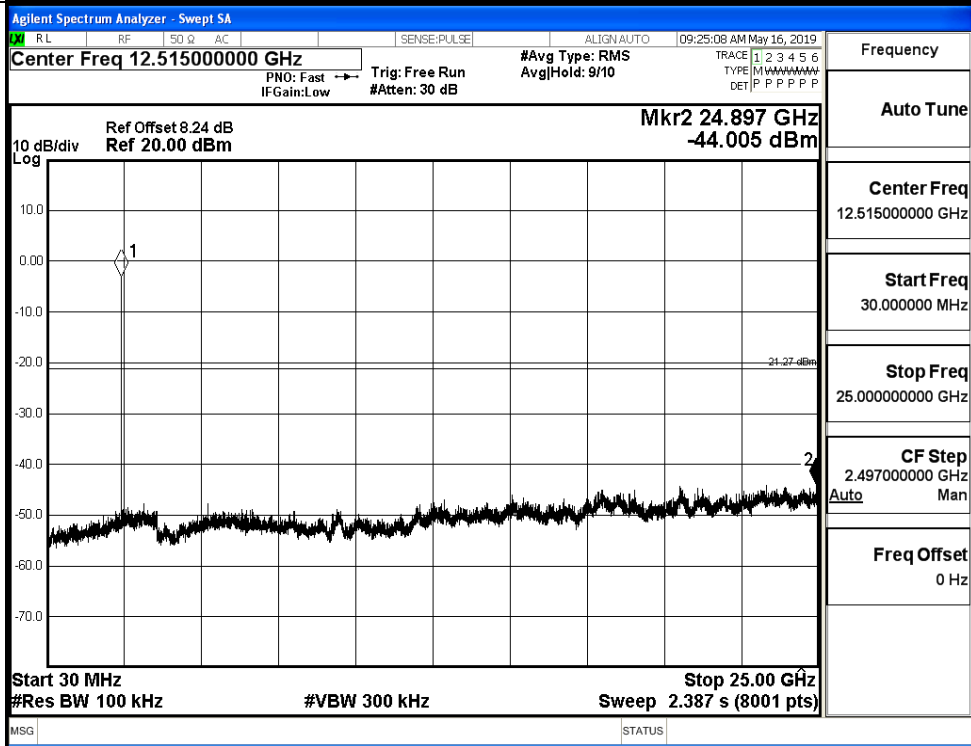


BT LE\_MCH\_Graphs

Pref/BT LE/MCH

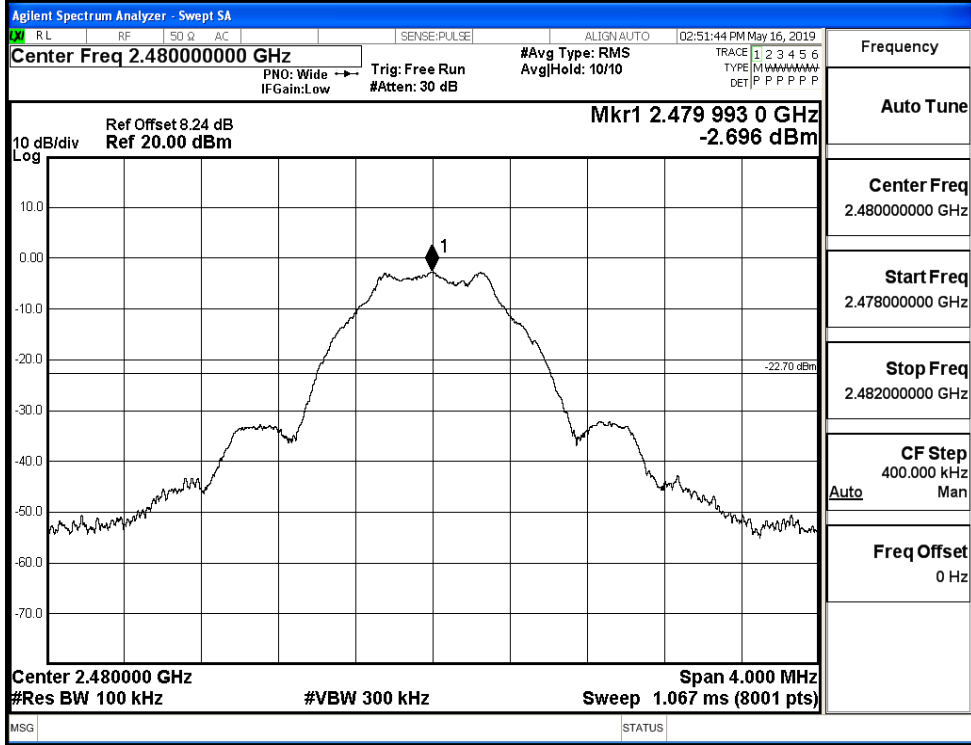


Puw/BT LE/MCH

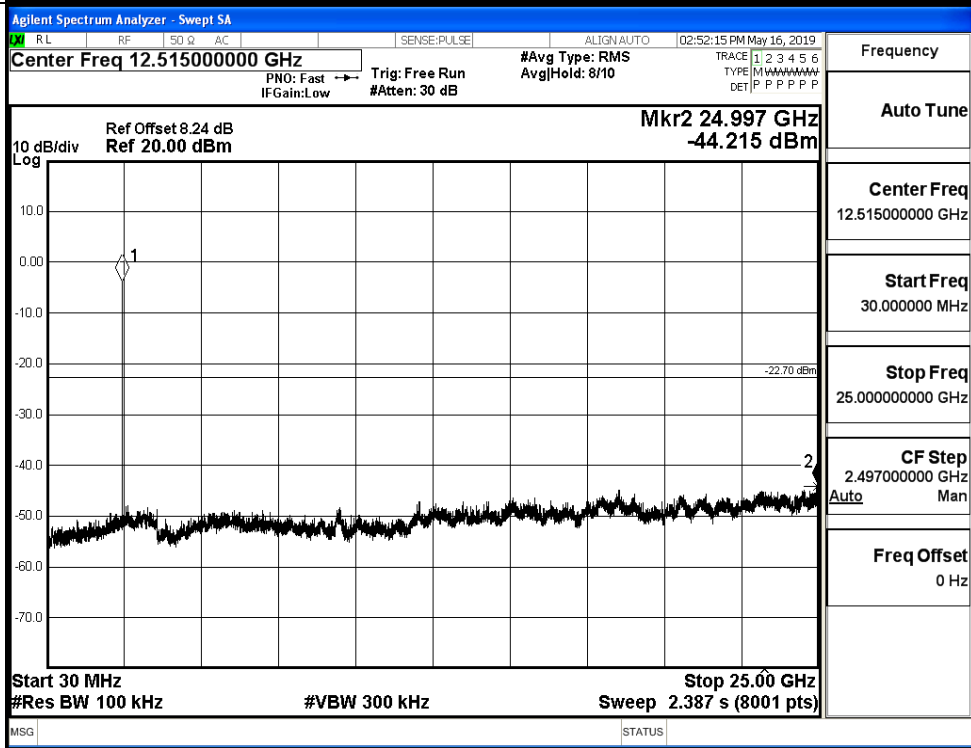


BT LE\_HCH\_Graphs

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	-4.227	-49.903	-24.23	PASS
BT LE	HCH	-2.463	-50.173	-22.46	PASS

**Test Graphs**

LCH

Agilent Spectrum Analyzer - Swept SA  
 Center Freq 2.35700000 GHz  
 Mkr4 2.367 575 GHz  
 -49.903 dBm  
 Start 2.31000 GHz Stop 2.40400 GHz  
 #Res BW 100 kHz #VBW 300 kHz Sweep 9.067 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.402 003 GHz	-4.227 dBm			
2	N	f		2.400 000 GHz	-54.433 dBm			
3	N	f		2.390 000 GHz	-53.359 dBm			
4	N	f		2.367 575 GHz	-49.903 dBm			

Frequency

Auto Tune

Center Freq  
2.35700000 GHz

Start Freq  
2.31000000 GHz

Stop Freq  
2.40400000 GHz

CF Step  
9.400000 MHz

Freq Offset  
0 Hz

---

HCH

Agilent Spectrum Analyzer - Swept SA  
 Center Freq 2.48900000 GHz  
 Mkr4 2.495 968 50 GHz  
 -50.173 dBm  
 Start 2.47800 GHz Stop 2.50000 GHz  
 #Res BW 100 kHz #VBW 300 kHz Sweep 2.133 ms (8001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.479 999 25 GHz	-2.463 dBm			
2	N	f		2.483 500 00 GHz	-50.765 dBm			
3	N	f		2.500 000 00 GHz	-53.233 dBm			
4	N	f		2.495 968 50 GHz	-50.173 dBm			

Frequency

Auto Tune

Center Freq  
2.48900000 GHz

Start Freq  
2.47800000 GHz

Stop Freq  
2.50000000 GHz

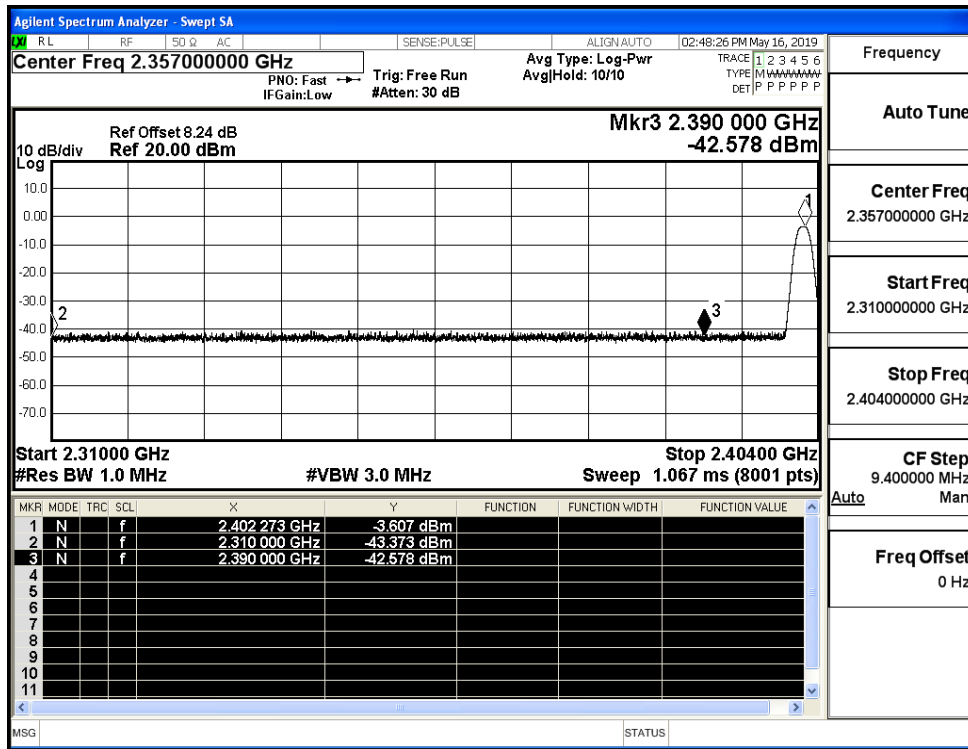
CF Step  
2.200000 MHz

Freq Offset  
0 Hz

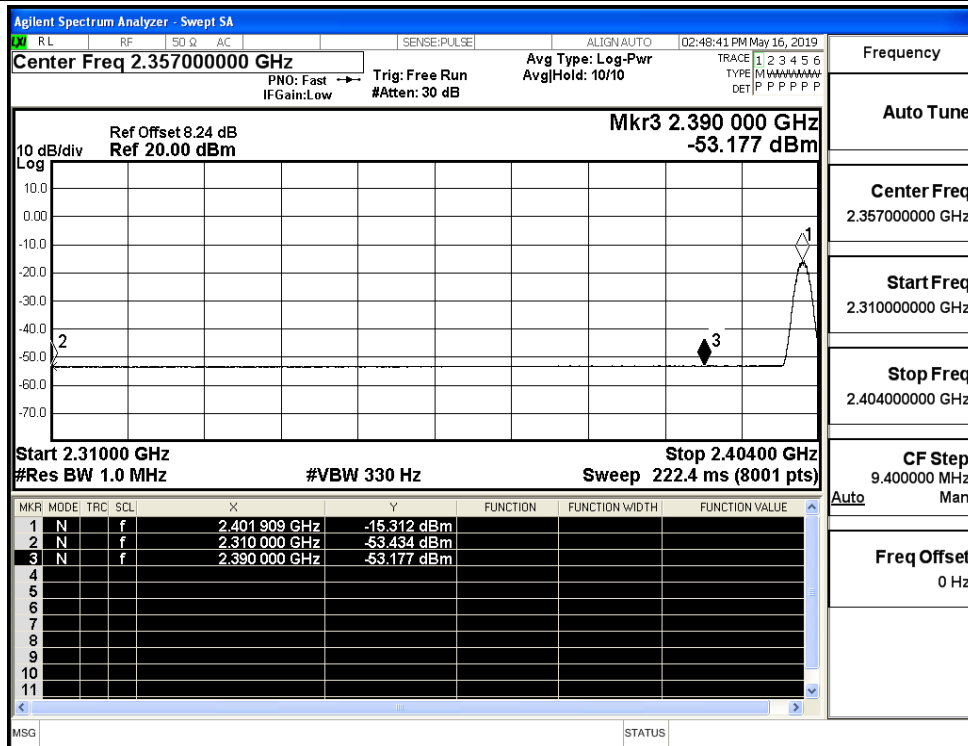
## B.7 Restrict-band band-edge measurements

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	-43.37	2.0	0	51.88	PEAK	74	PASS
		Ant1	2310.0	-53.43	2.0	0	41.82	AV	54	PASS
		Ant1	2390.0	-42.58	2.0	0	52.68	PEAK	74	PASS
		Ant1	2390.0	-53.18	2.0	0	42.08	AV	54	PASS
	2480	Ant1	2483.5	-44.04	2.0	0	51.22	PEAK	74	PASS
		Ant1	2483.5	-52.94	2.0	0	42.32	AV	54	PASS
		Ant1	2500.0	-42.10	2.0	0	53.16	PEAK	74	PASS
		Ant1	2500.0	-52.81	2.0	0	42.45	AV	54	PASS

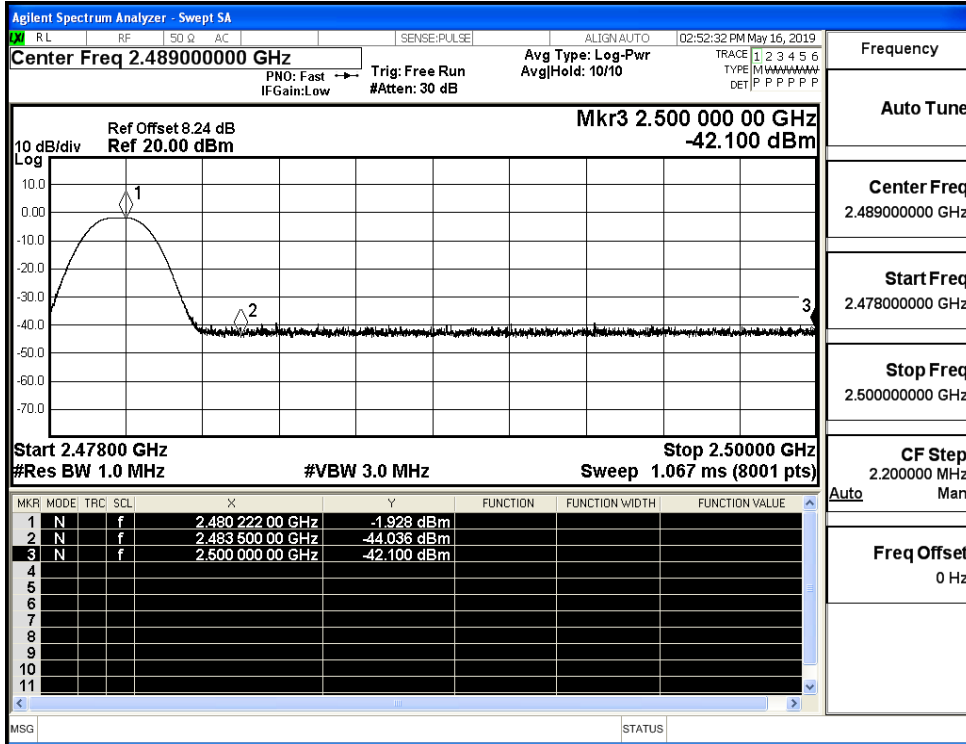
Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



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

