

Appendix B

RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement)

Product Name: True Wireless Stereo headset

Trade Mark: N/A

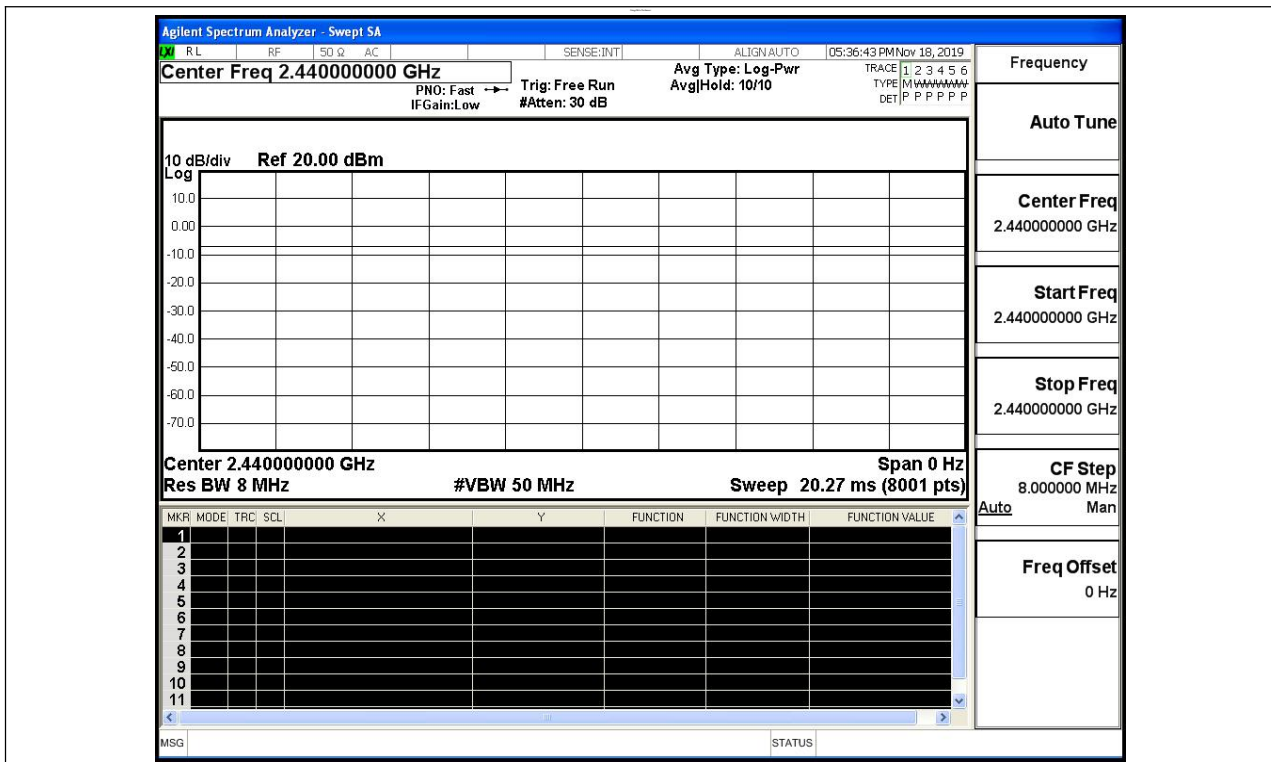
Test Model: T9S

Environmental Conditions

Temperature:	24.3 ° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Scout Wu
Supervised by:	Wang Chuang

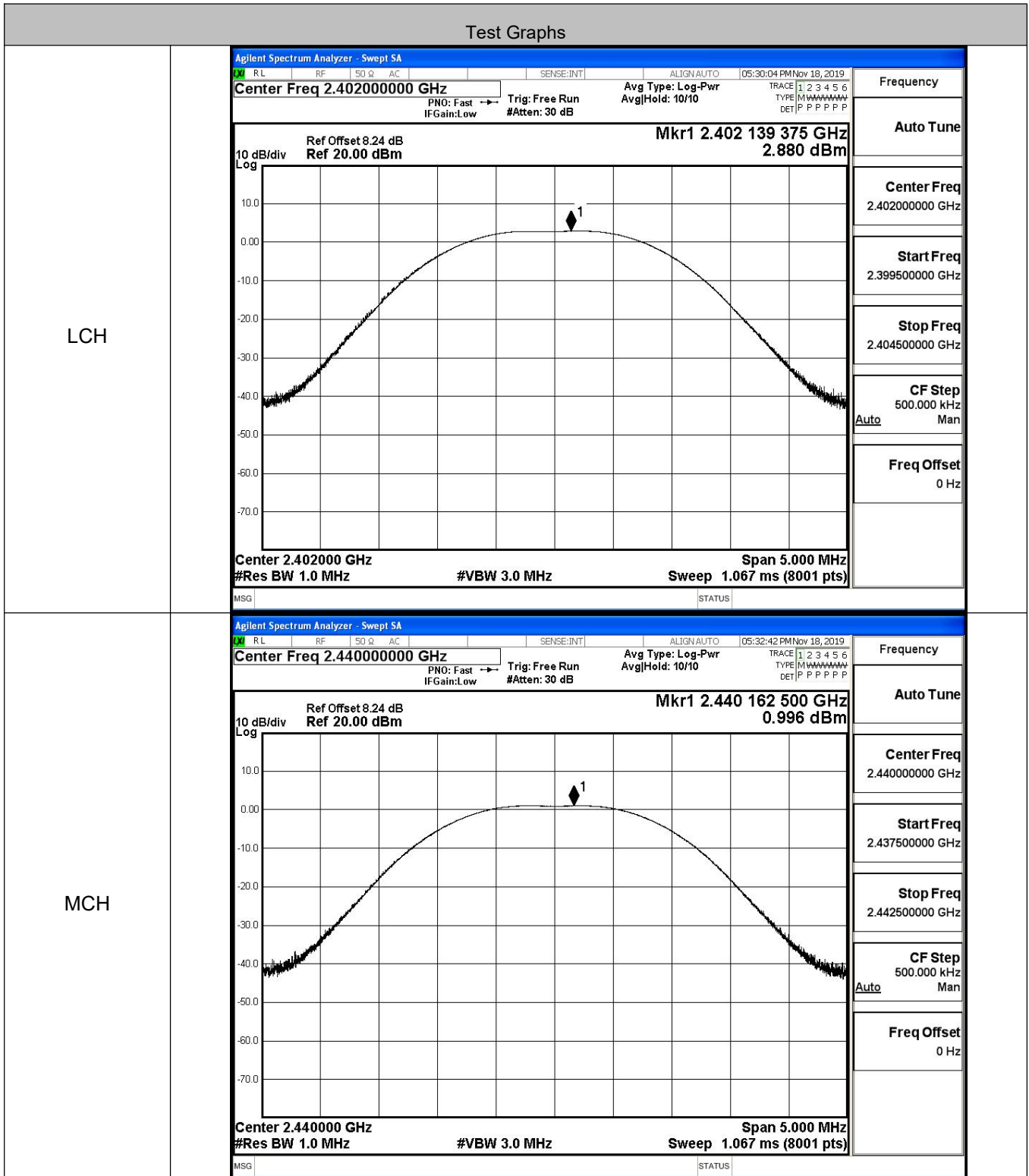
B.1 Duty Cycle

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

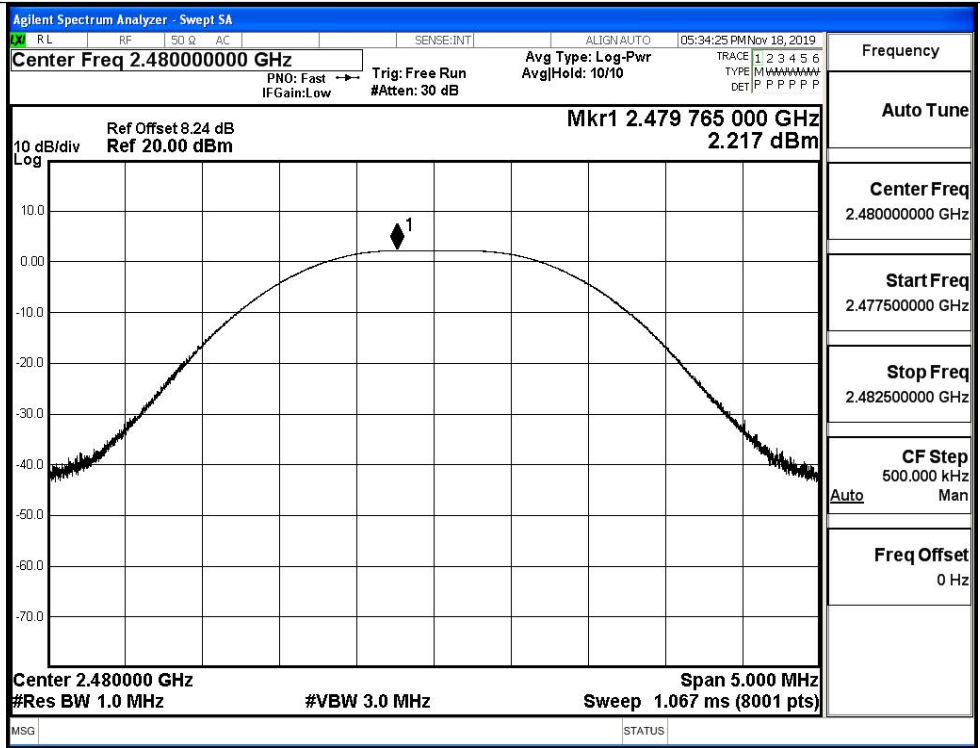


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.88	30	PASS
BT LE	MCH	0.996	30	PASS
BT LE	HCH	2.217	30	PASS



HCH



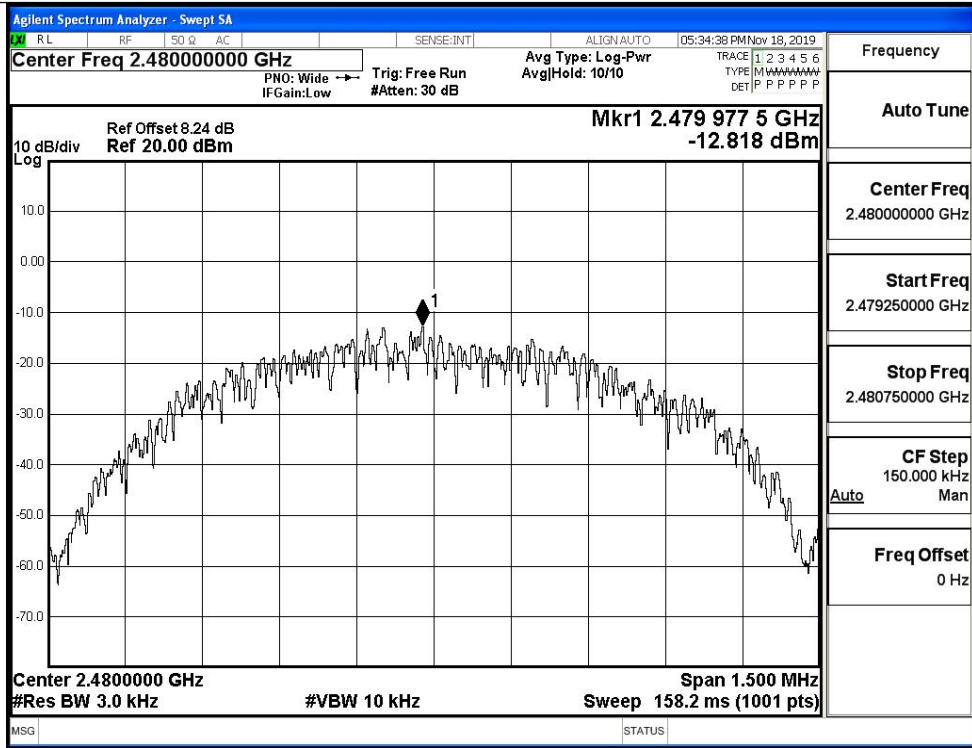
B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-12.323	8	PASS
BT LE	MCH	-13.991	8	PASS
BT LE	HCH	-12.818	8	PASS

Test Graphs

LCH		<table border="1"> <tr><td>Frequency</td></tr> <tr><td>Auto Tune</td></tr> <tr><td>Center Freq 2.40200000 GHz</td></tr> <tr><td>Start Freq 2.401250000 GHz</td></tr> <tr><td>Stop Freq 2.402750000 GHz</td></tr> <tr><td>CF Step 150.000 kHz Auto Man</td></tr> <tr><td>Freq Offset 0 Hz</td></tr> </table>	Frequency	Auto Tune	Center Freq 2.40200000 GHz	Start Freq 2.401250000 GHz	Stop Freq 2.402750000 GHz	CF Step 150.000 kHz Auto Man	Freq Offset 0 Hz
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HCH

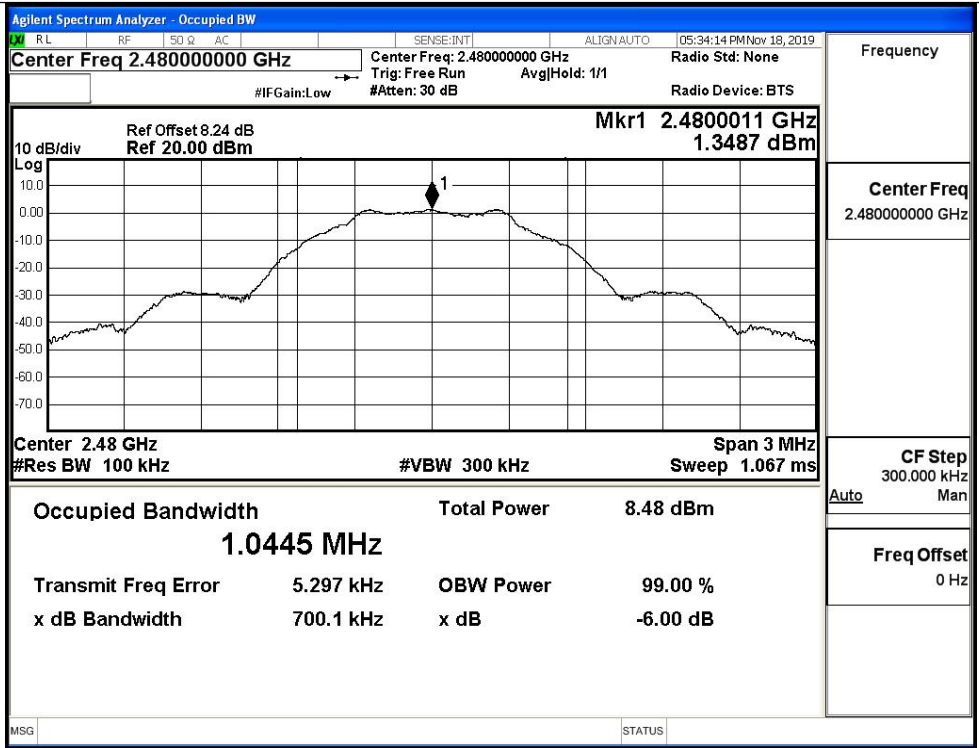


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6974	≥0.5	PASS
BT LE	MCH	0.7038	≥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:INT ALIGN:AUTO 05:29:52 PM Nov 18, 2019</p> <p style="margin: 0;">Center Freq 2.402000000 GHz Center Freq: 2.402000000 GHz Radio Std: None Trig: Free Run AvgHold> 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 2.4019951 GHz 2.0731 dBm</p> </div> <p style="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">9.12 dBm</td> </tr> <tr> <td colspan="4" style="text-align: center;">1.0530 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>5.710 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>697.4 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	9.12 dBm		1.0530 MHz				Transmit Freq Error	5.710 kHz	OBW Power	99.00 %	x dB Bandwidth	697.4 kHz	x dB	-6.00 dB
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HCH

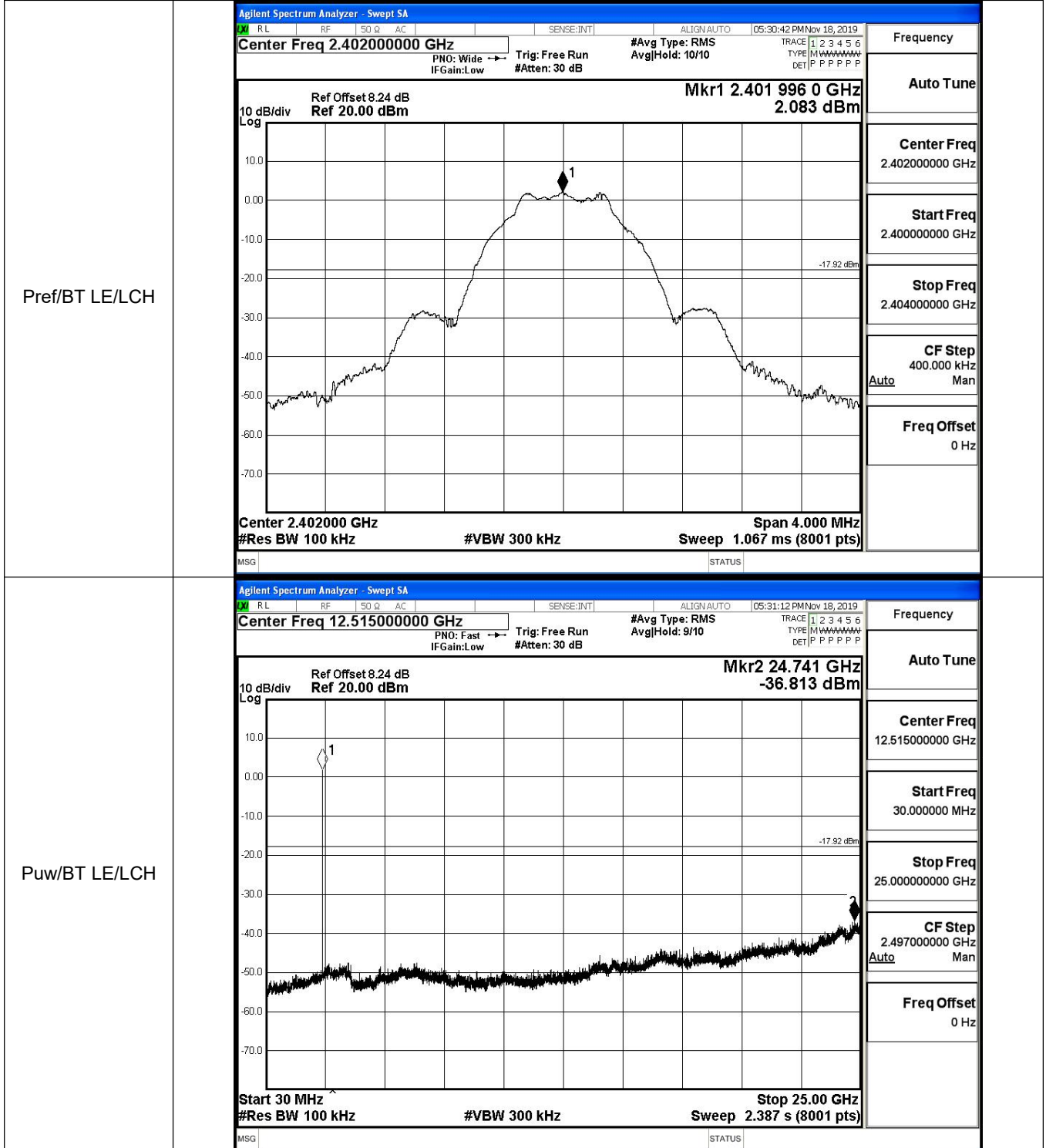


Frequency	
Center Freq	2.48000000 GHz
CF Step	300.000 kHz
	Auto Man
Freq Offset	0 Hz

B.5 RF Conducted Spurious Emissions

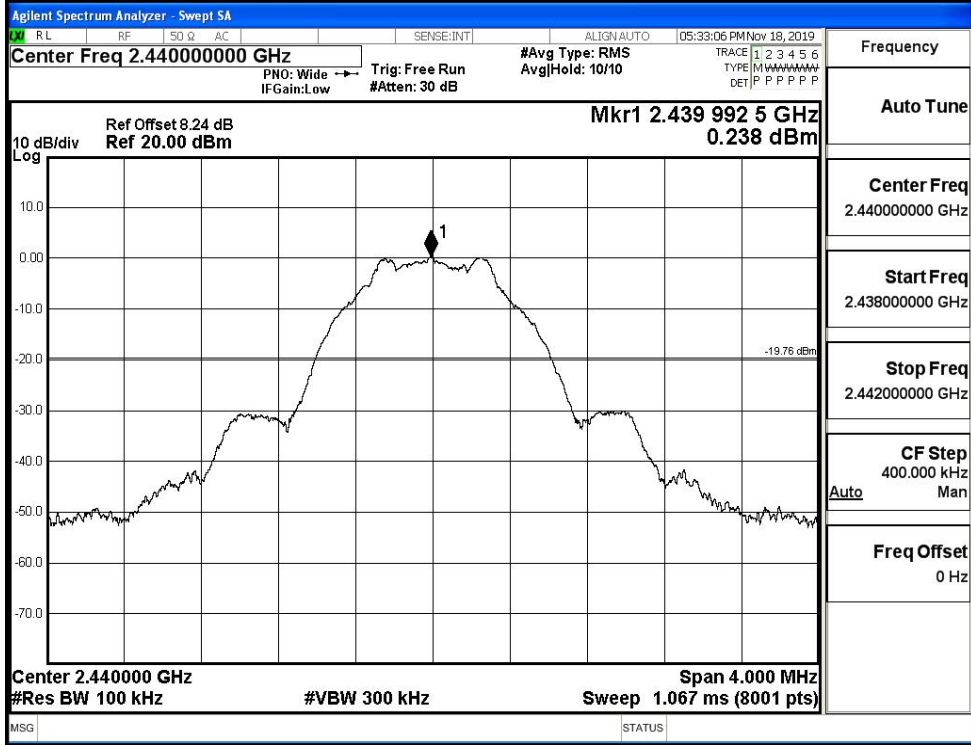
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.083	-36.813	-17.917	PASS
BT LE	MCH	0.238	-37.022	-19.762	PASS
BT LE	HCH	1.431	-36.544	-18.569	PASS

BT LE_LCH_Graphs

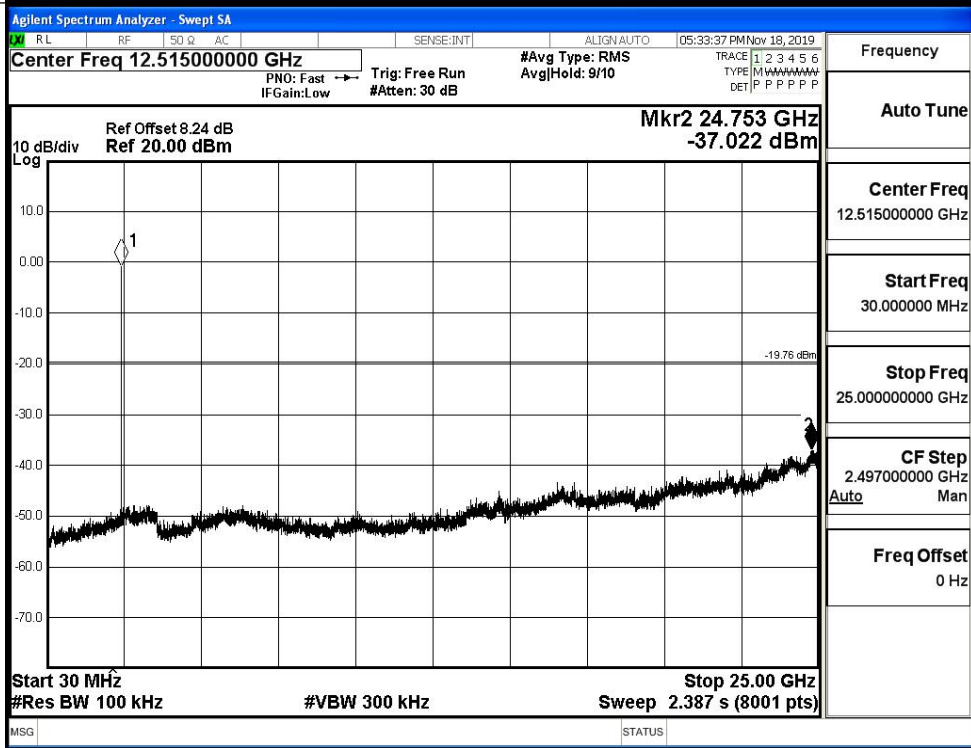


BT LE MCH Graphs

Pref/BT LE/MCH

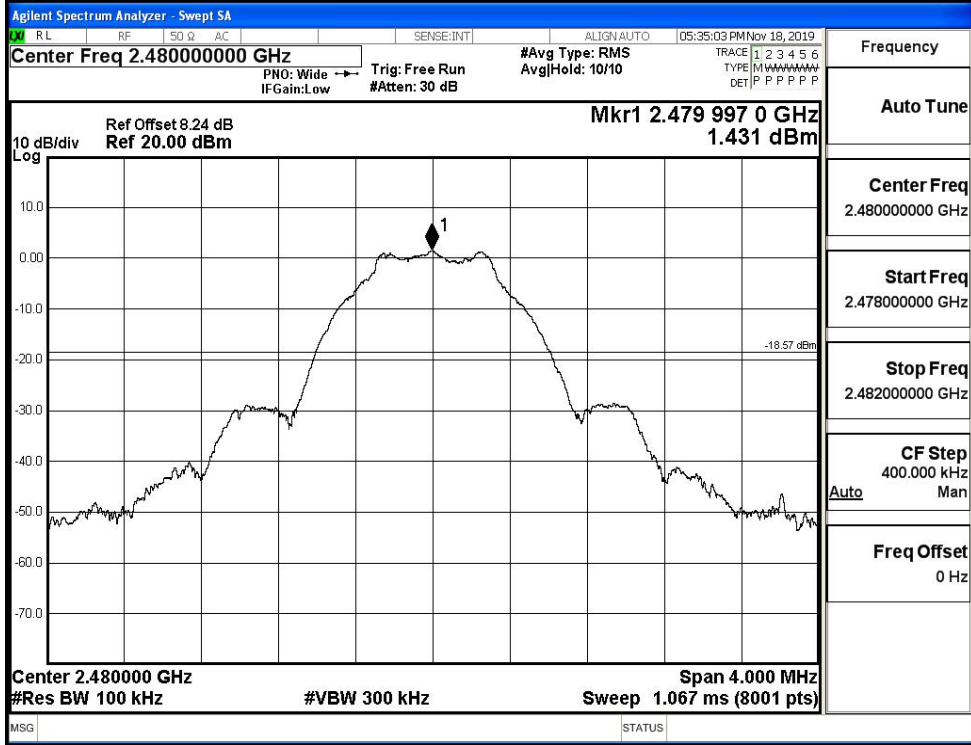


Puw/BT LE/MCH

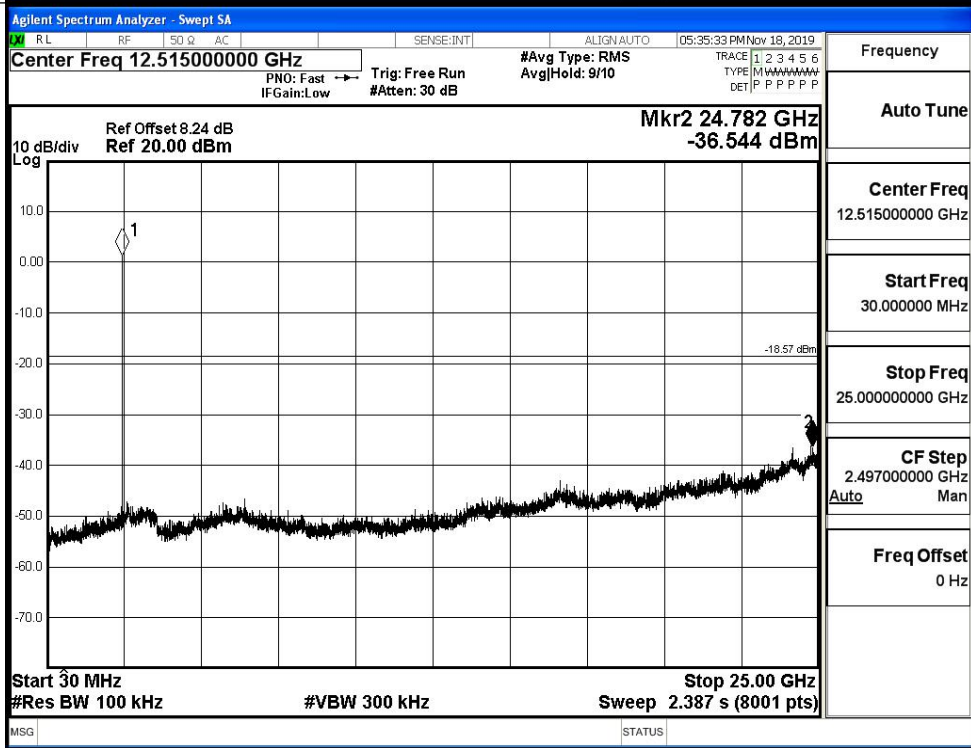


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH



B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.352	-49.741	-17.65	PASS
BT LE	HCH	1.657	-48.338	-18.34	PASS

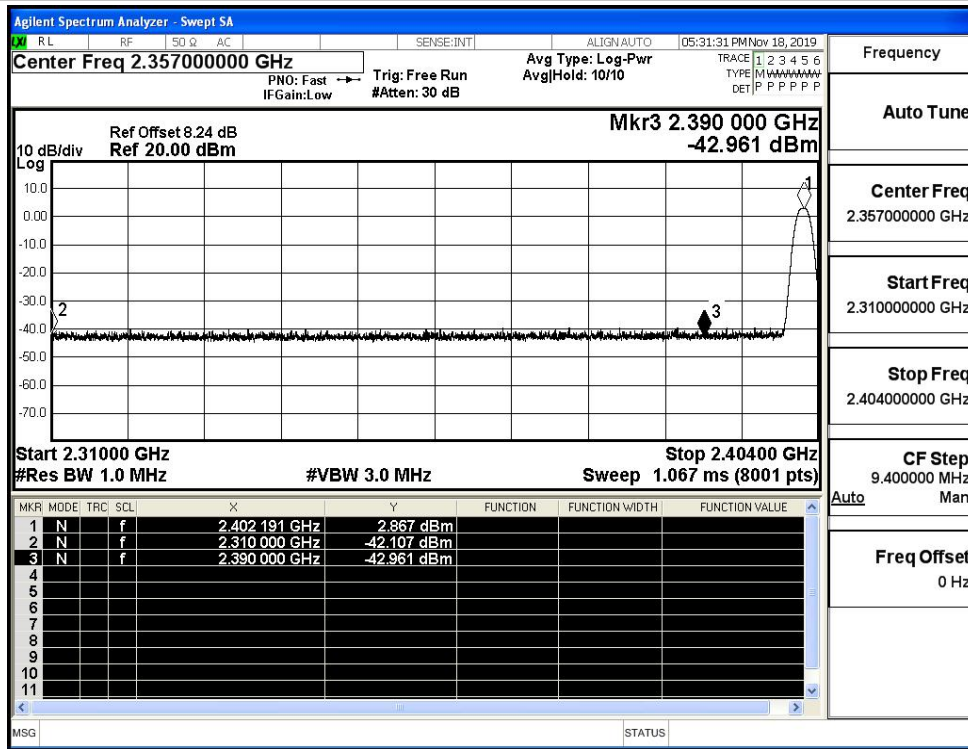
Test Graphs

LCH		<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.35700000 GHz</p> <p>Mkr4 2.330 292 GHz -49.741 dBm</p> <p>Start 2.31000 GHz Stop 2.40400 GHz</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>2.402 003 GHz</td><td>2.352 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>-52.713 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>-52.923 dBm</td><td></td><td></td><td></td></tr> <tr><td>4</td><td>N</td><td>f</td><td></td><td>2.330 292 GHz</td><td>-49.741 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		2.402 003 GHz	2.352 dBm				2	N	f		2.400 000 GHz	-52.713 dBm				3	N	f		2.390 000 GHz	-52.923 dBm				4	N	f		2.330 292 GHz	-49.741 dBm			
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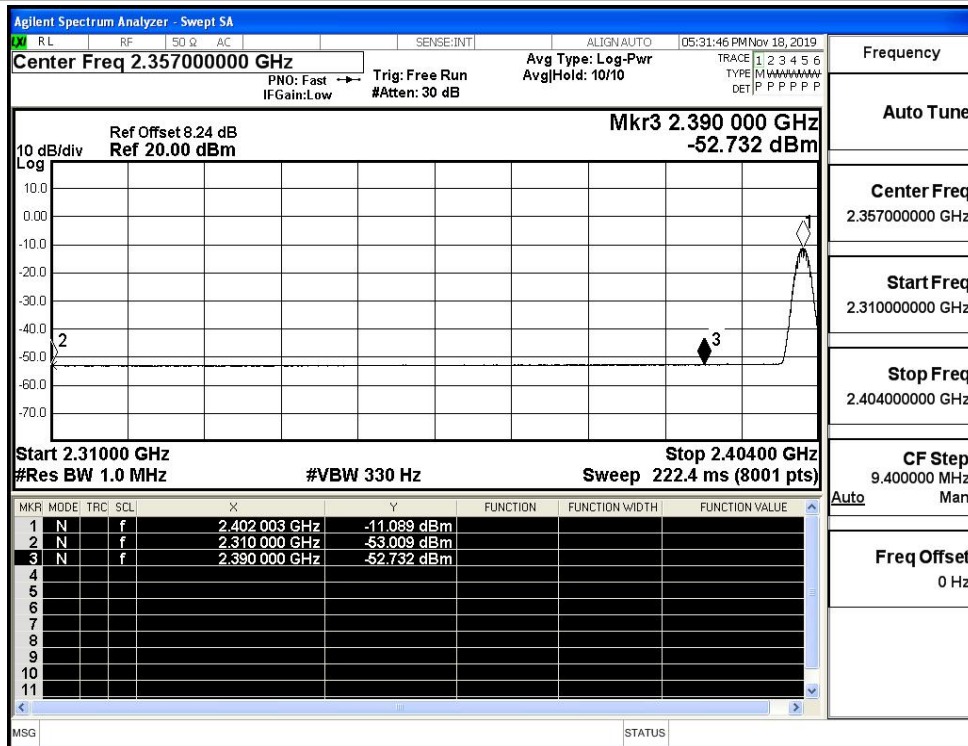
B.7 Restrict-band band-edge measurements

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	-42.11	2.0	0	53.15	PEAK	74	PASS
		Ant1	2310.0	-53.01	2.0	0	42.25	AV	54	PASS
		Ant1	2390.0	-42.96	2.0	0	52.30	PEAK	74	PASS
		Ant1	2390.0	-52.73	2.0	0	42.53	AV	54	PASS
	2480	Ant1	2483.5	-41.92	2.0	0	53.34	PEAK	74	PASS
		Ant1	2483.5	-52.19	2.0	0	43.06	AV	54	PASS
		Ant1	2500.0	-41.05	2.0	0	54.20	PEAK	74	PASS
		Ant1	2500.0	-52.12	2.0	0	43.13	AV	54	PASS

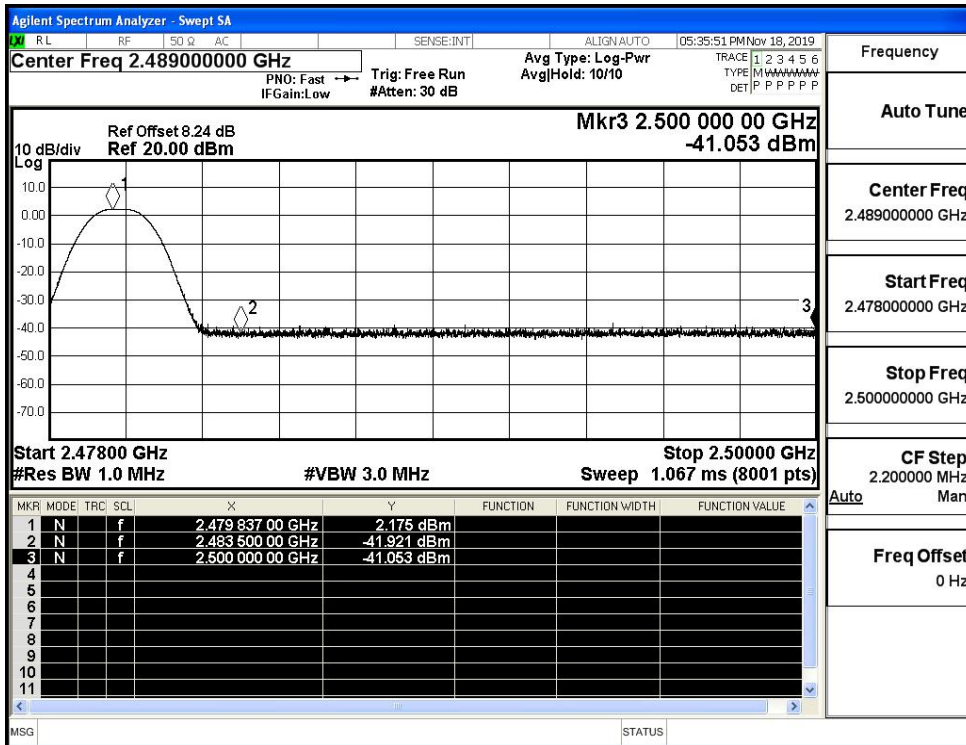
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

