

Appendix B

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

Product Name: Tablet PC

Trade Mark: Acer

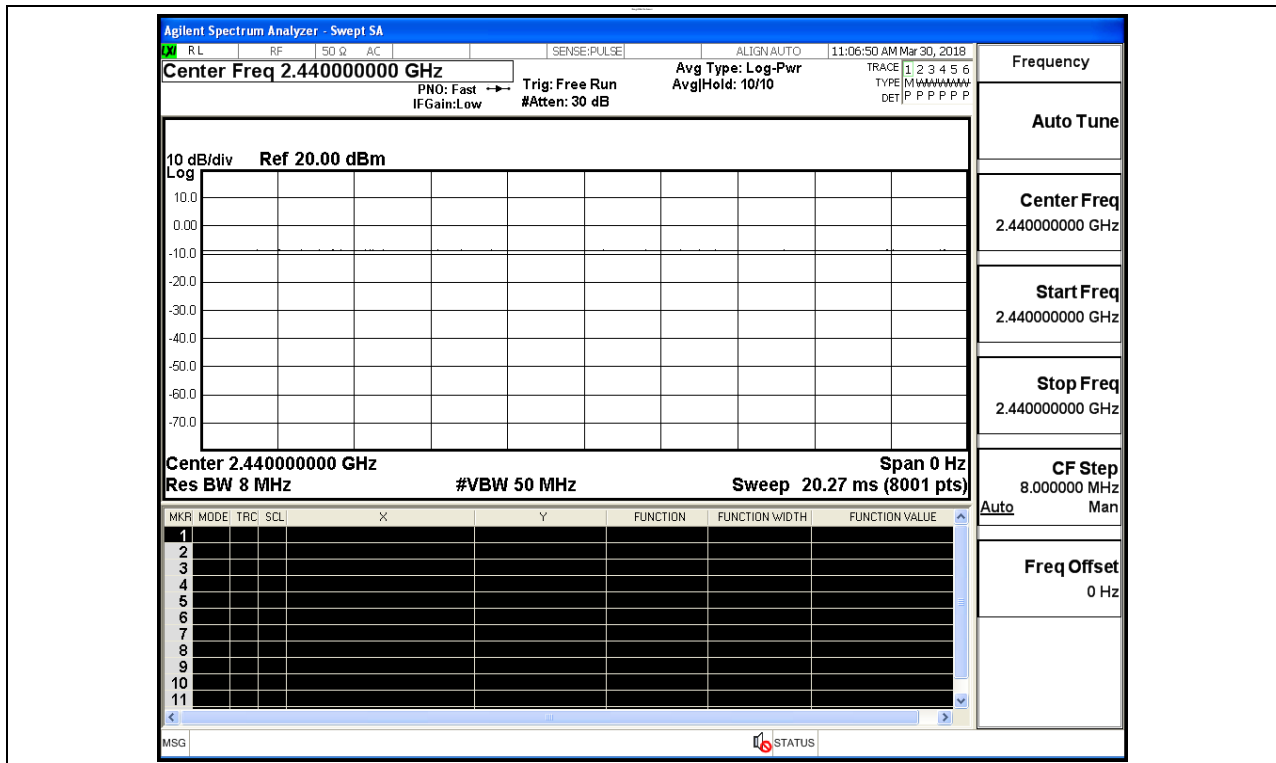
Test Model: Acer One 7 4G

Environmental Conditions

Temperature:	22.3 °C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	WILSON HONG
Supervised by:	Dick.Su

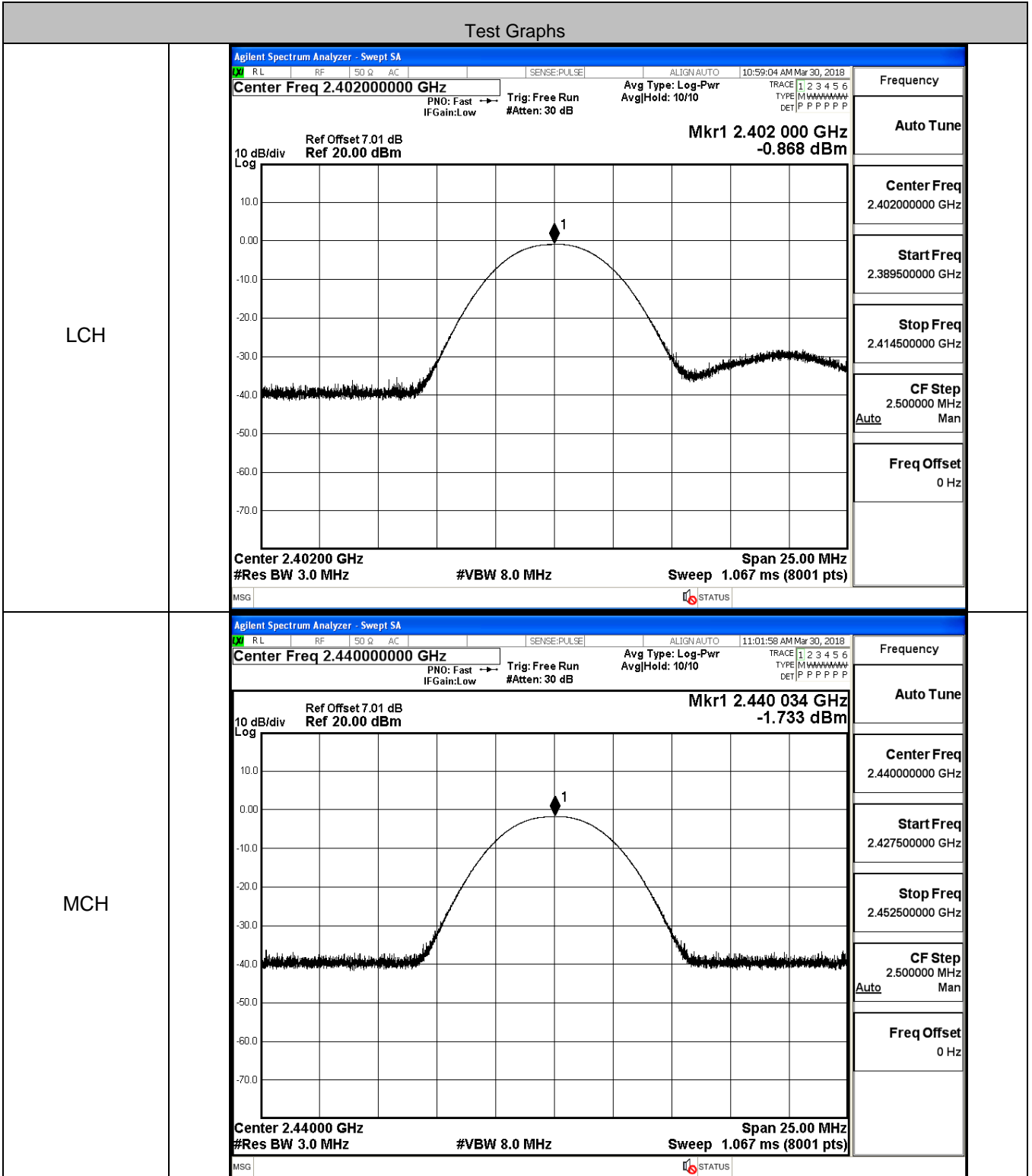
B.1 Duty Cycle

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

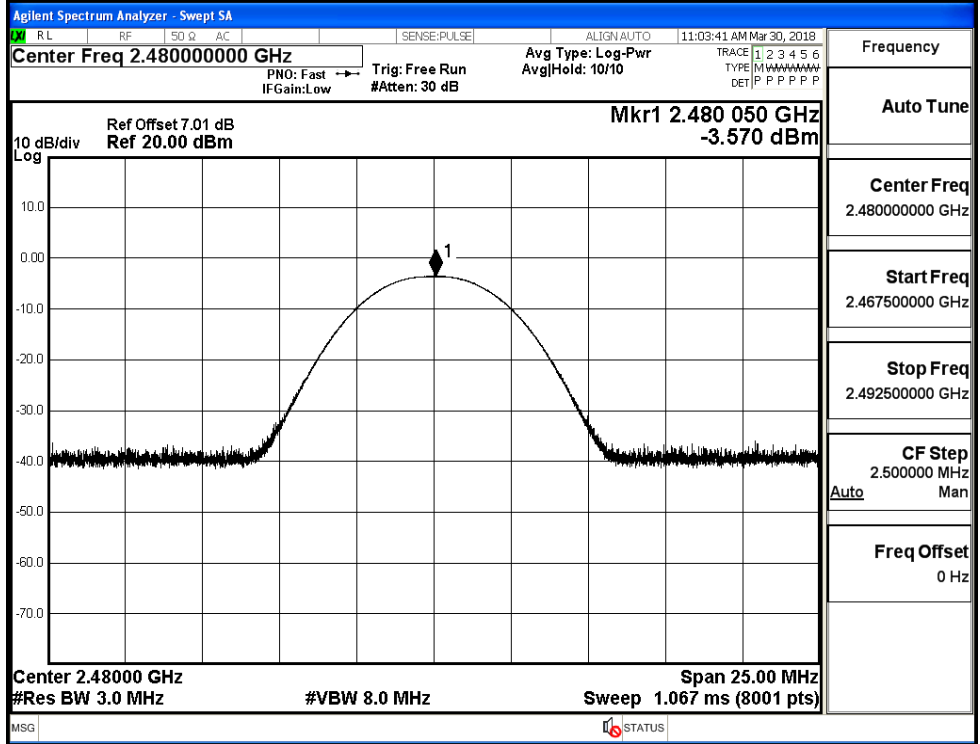


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.868	30	PASS
BT LE	MCH	-1.733	30	PASS
BT LE	HCH	-3.570	30	PASS

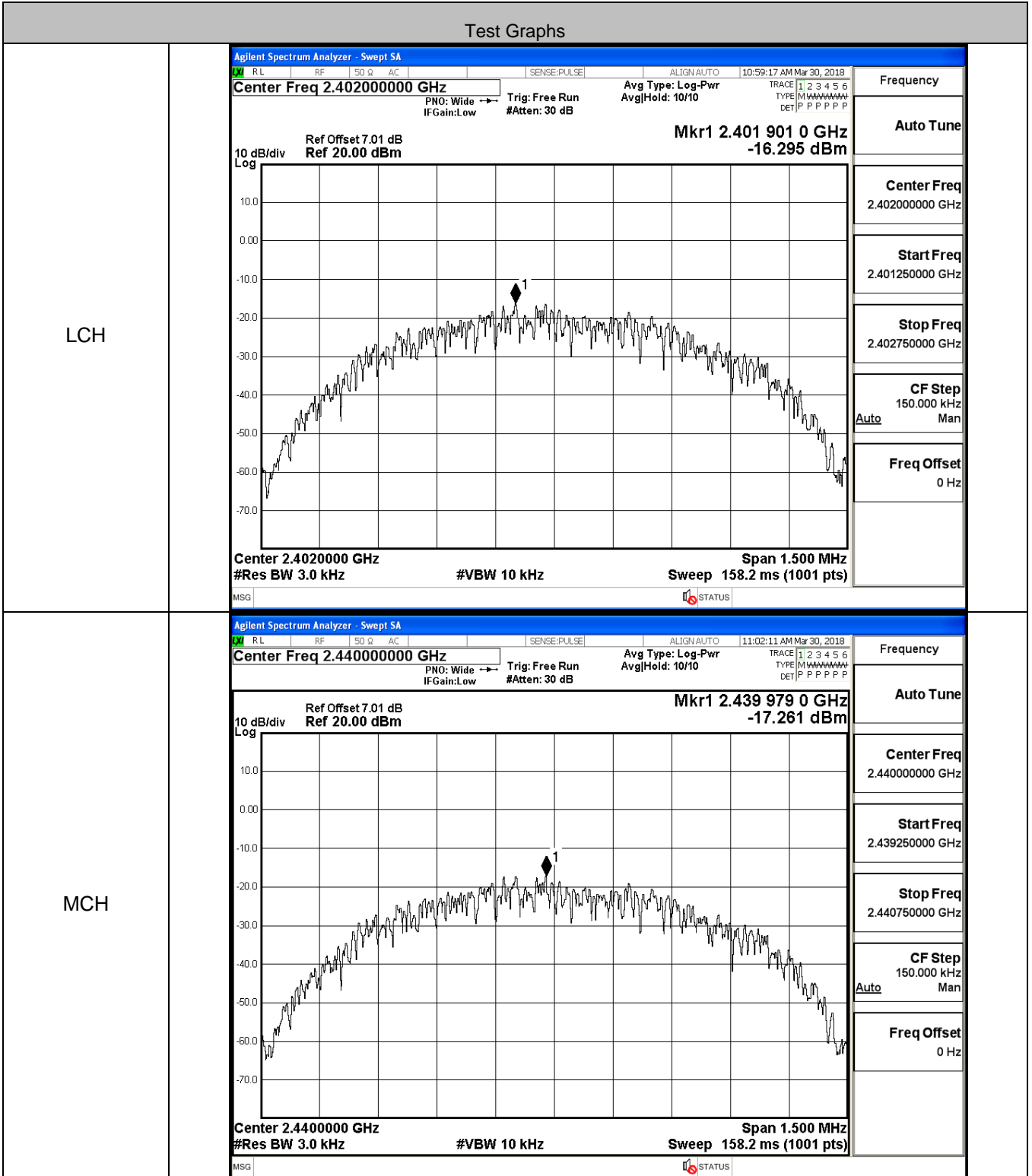


HCH

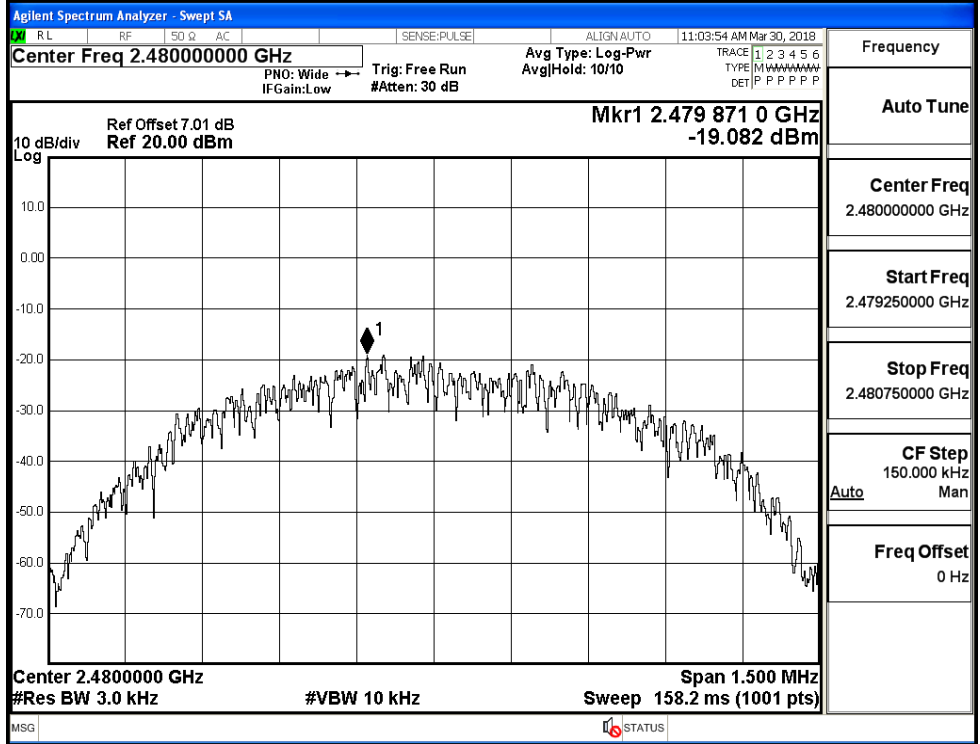


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.295	8	PASS
BT LE	MCH	-17.261	8	PASS
BT LE	HCH	-19.082	8	PASS



HCH



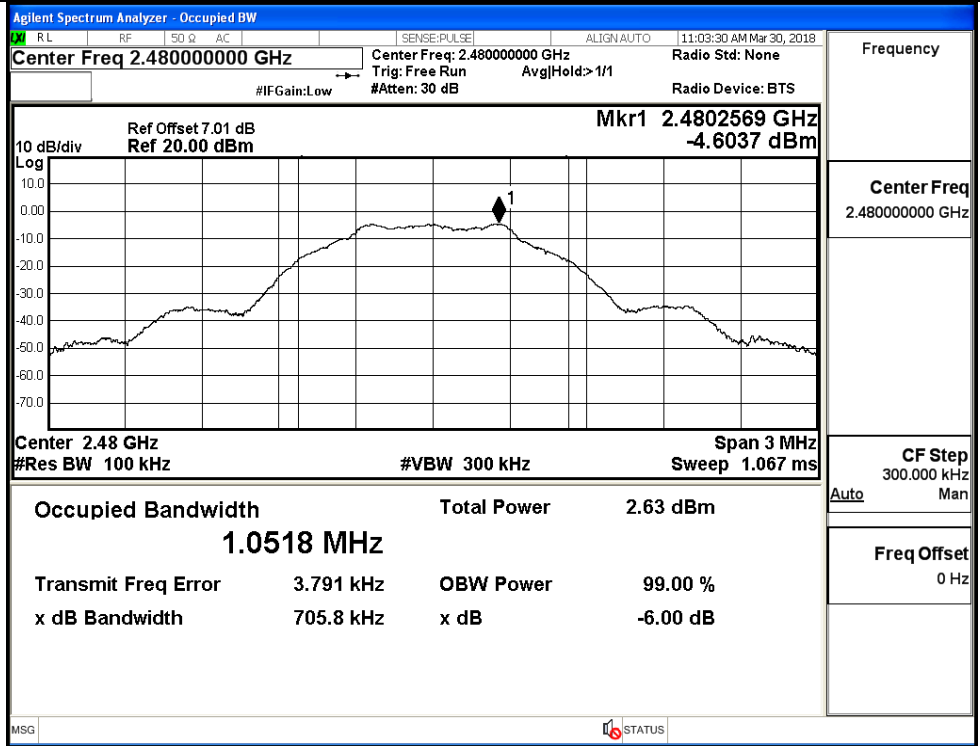
B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7054	≥0.5	PASS
BT LE	MCH	0.7116	≥0.5	PASS
BT LE	HCH	0.7058	≥0.5	PASS

Test Graphs

LCH		<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.40200000 GHz</p> <p>Center Freq: 2.40200000 GHz</p> <p>Radio Std: None</p> <p>Frequency</p> <p>Center Freq 2.40200000 GHz</p> <p>CF Step 300.000 kHz</p> <p>Freq Offset 0 Hz</p>
		<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.44000000 GHz</p> <p>Center Freq: 2.44000000 GHz</p> <p>Radio Std: None</p> <p>Frequency</p> <p>Center Freq 2.44000000 GHz</p> <p>CF Step 300.000 kHz</p> <p>Freq Offset 0 Hz</p>

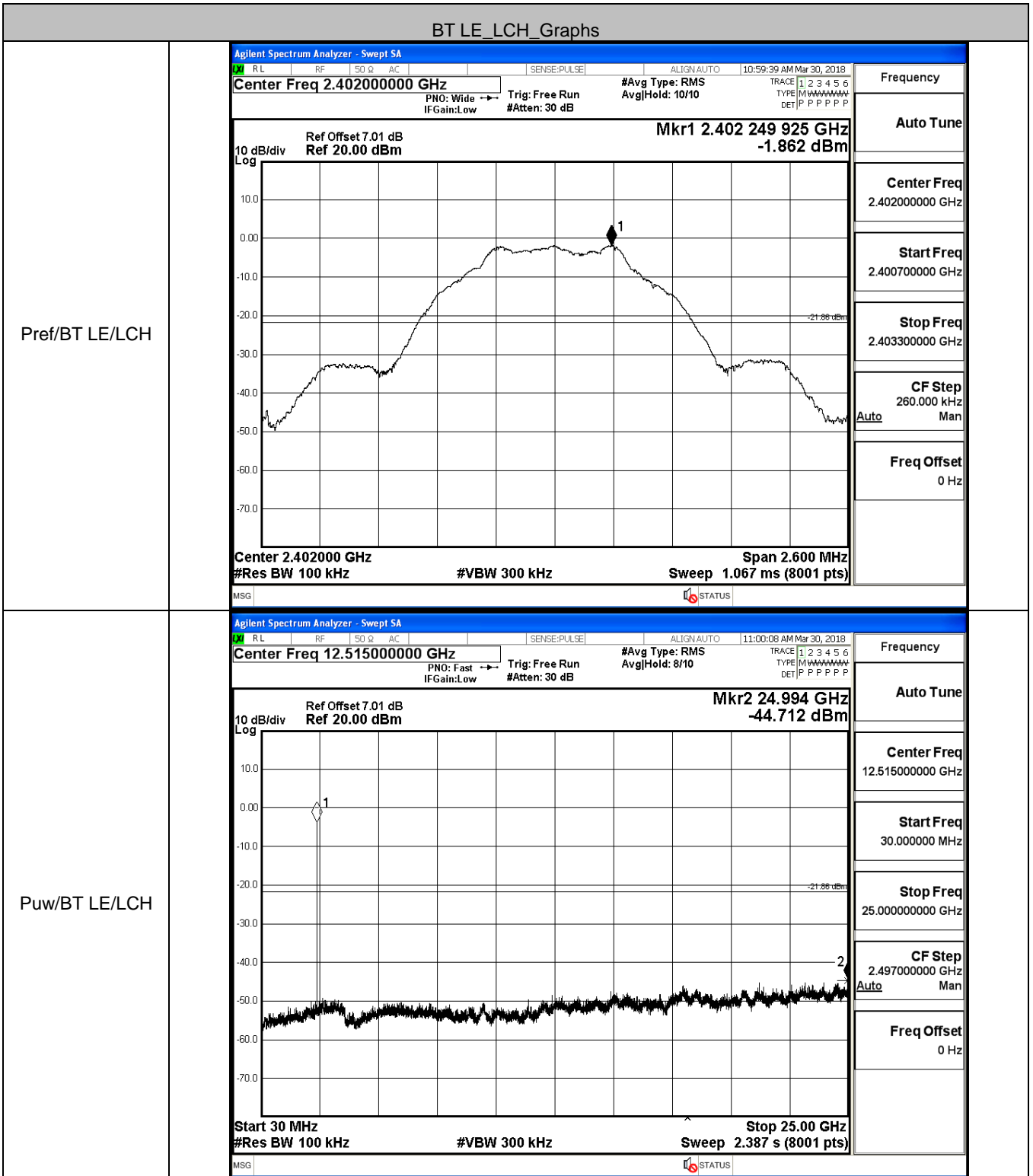
HCH



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

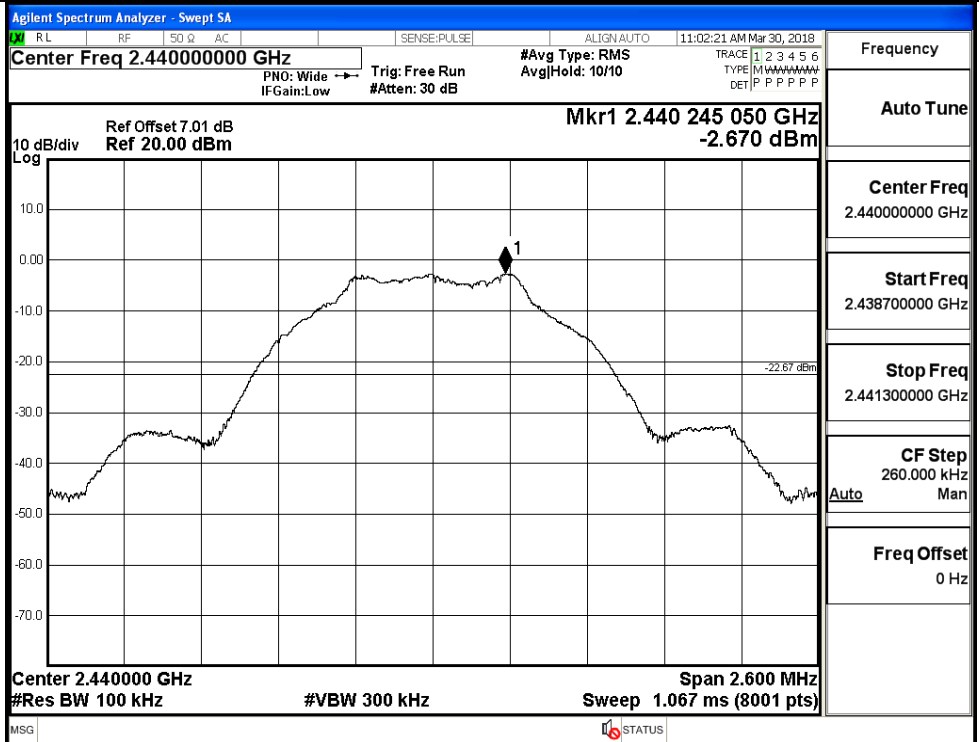
B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.862	-44.712	-21.862	PASS
BT LE	MCH	-2.67	-45.254	-22.670	PASS
BT LE	HCH	-4.558	-44.265	-24.558	PASS

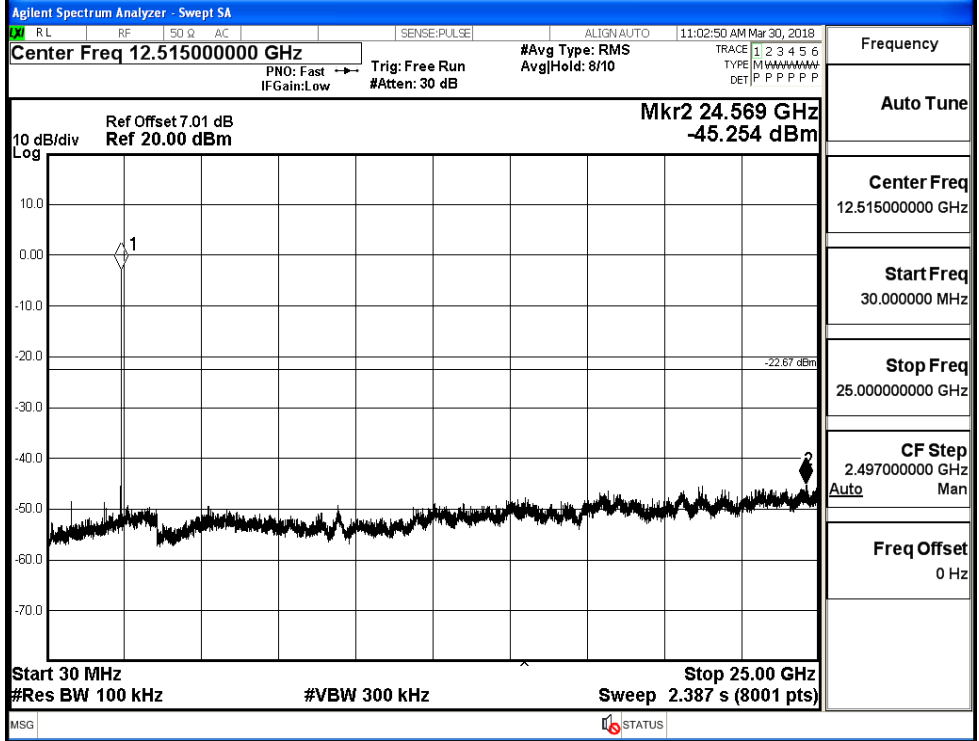


BT LE_MCH_Graphs

Pref/BT LE/MCH



Puw/BT LE/MCH



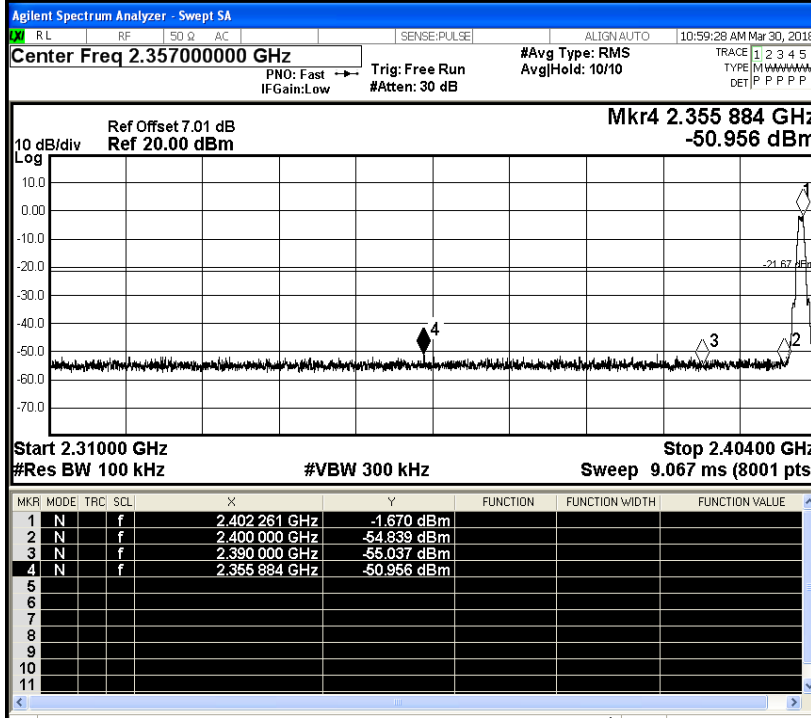
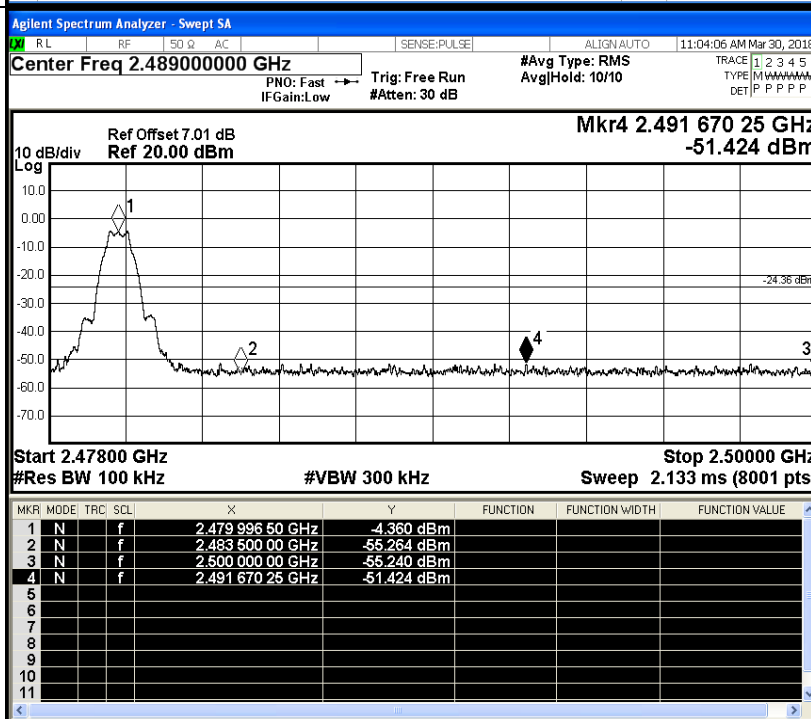
BT LE_HCH_Graphs

<p>Pref/BT LE/HCH</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.48000000 GHz Ref Offset 7.01 dB Ref 20.00 dBm Mkr1 2.480 252 525 GHz -4.558 dBm 10 dB/div Log Center 2.480000 GHz #Res BW 100 kHz #VBW 300 kHz Span 2.600 MHz Sweep 1.067 ms (8001 pts)</p>	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.48000000 GHz</p> <p>Start Freq 2.478700000 GHz</p> <p>Stop Freq 2.481300000 GHz</p> <p>CF Step 260.000 kHz Auto Man</p> <p>Freq Offset 0 Hz</p>
<p>Puw/BT LE/HCH</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 12.51500000 GHz Ref Offset 7.01 dB Ref 20.00 dBm Mkr2 24.991 GHz -44.265 dBm 10 dB/div Log Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 25.00 GHz Sweep 2.387 s (8001 pts)</p>	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 12.51500000 GHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 25.00000000 GHz</p> <p>CF Step 2.497000000 GHz Auto Man</p> <p>Freq Offset 0 Hz</p>

B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.670	-50.956	-21.67	PASS
BT LE	HCH	-4.360	-51.424	-24.36	PASS

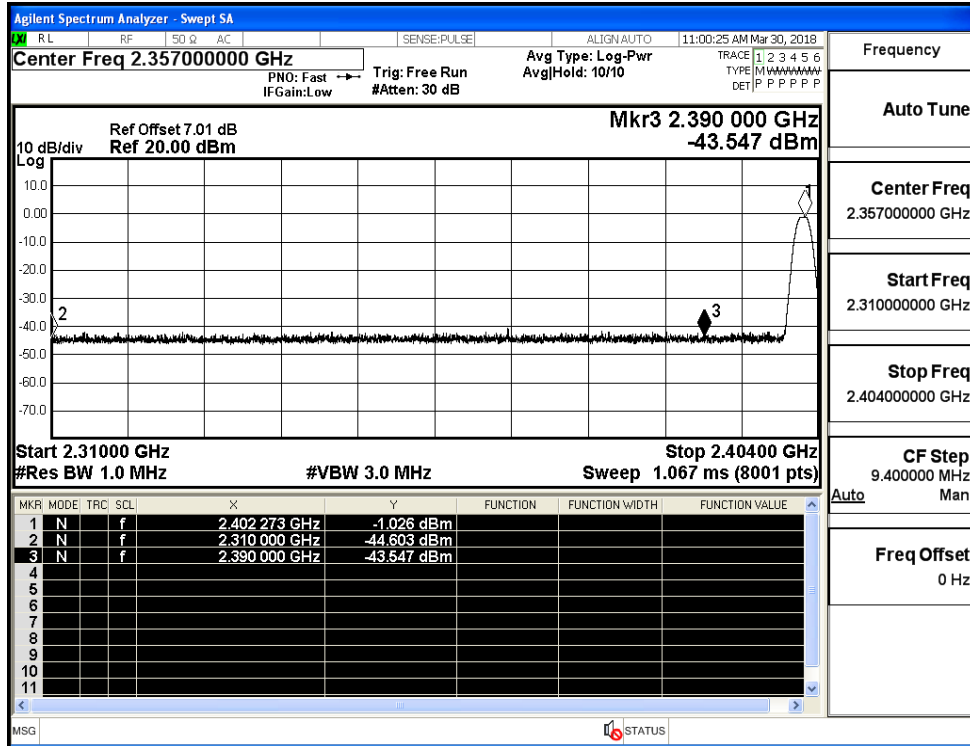
Test Graphs

LCH		<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>
HCH		<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>

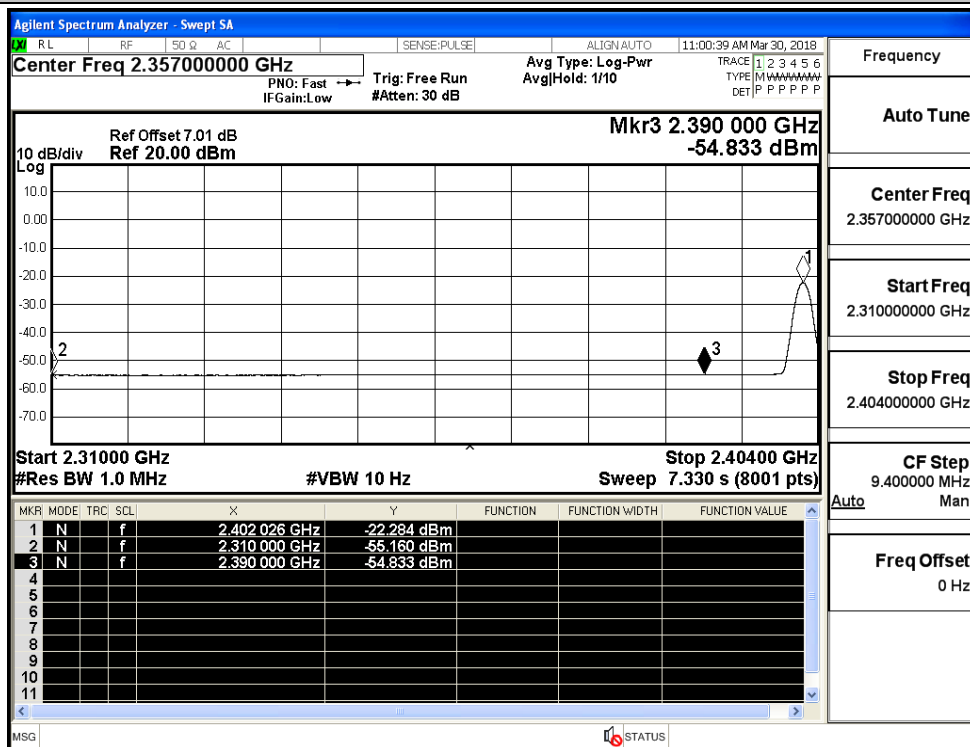
B.7 Restrict-band band-edge measurements

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	-44.60	2.0	0	52.60	PEAK	74	PASS
		Ant1	2310.0	-55.16	2.0	0	42.04	AV	54	PASS
		Ant1	2390.0	-43.55	2.0	0	53.65	PEAK	74	PASS
		Ant1	2390.0	-54.83	2.0	0	42.37	AV	54	PASS
	2480	Ant1	2483.5	-43.81	2.0	0	53.39	PEAK	74	PASS
		Ant1	2483.5	-54.67	2.0	0	42.53	AV	54	PASS
		Ant1	2500.0	-44.14	2.0	0	53.06	PEAK	74	PASS
		Ant1	2500.0	-54.57	2.0	0	42.63	AV	54	PASS

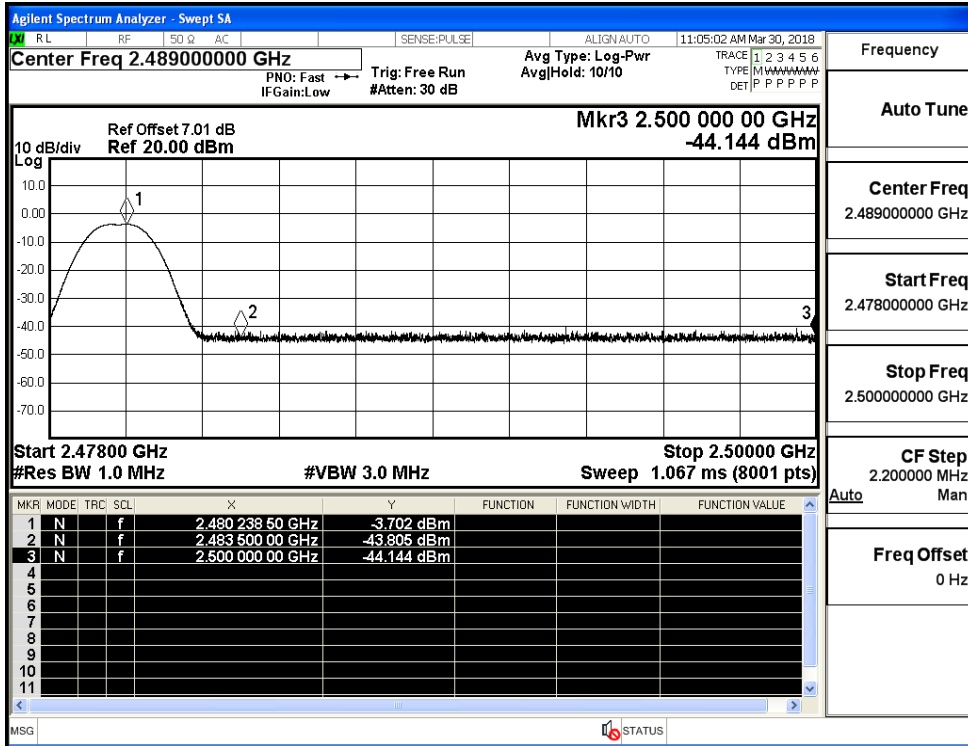
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

