

Appendix B

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

Product Name: TABLET PC

Trade Mark: FUSION5

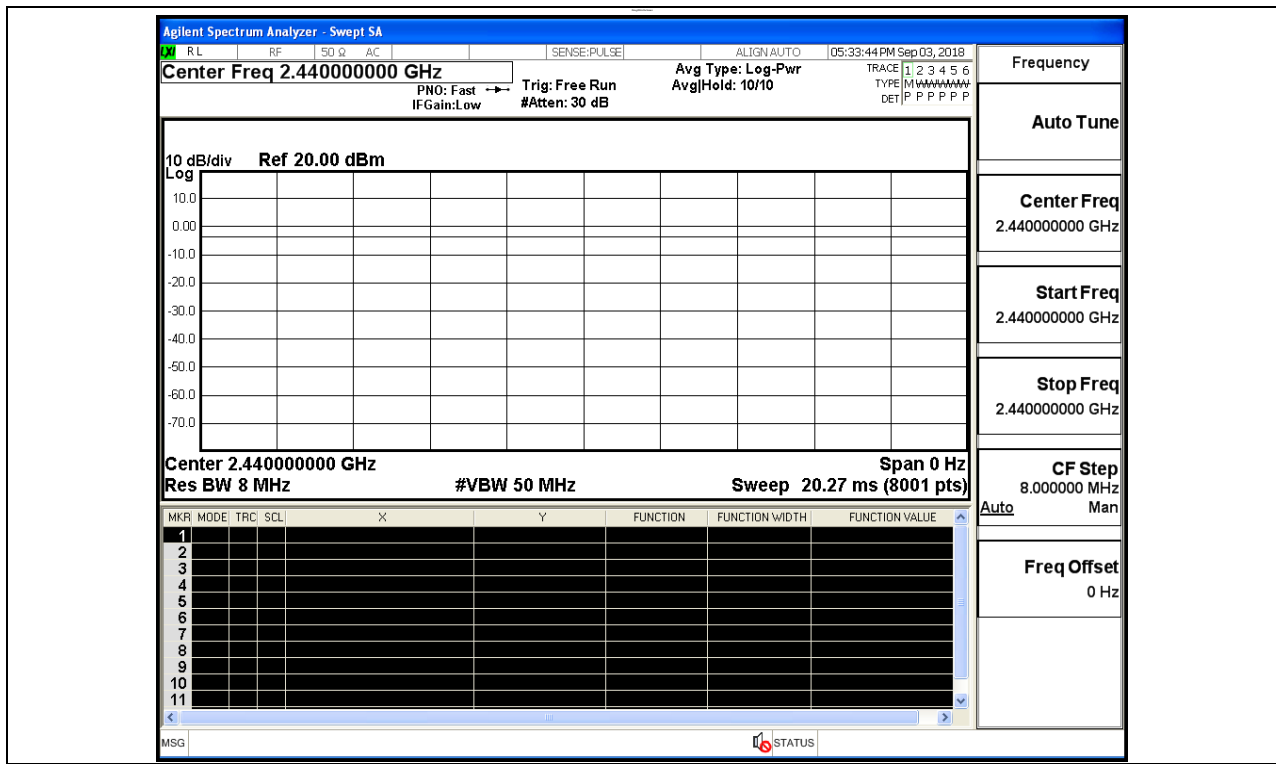
Test Model: FWIN232 Plus

Environmental Conditions

Temperature:	24.5° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden Zhuo

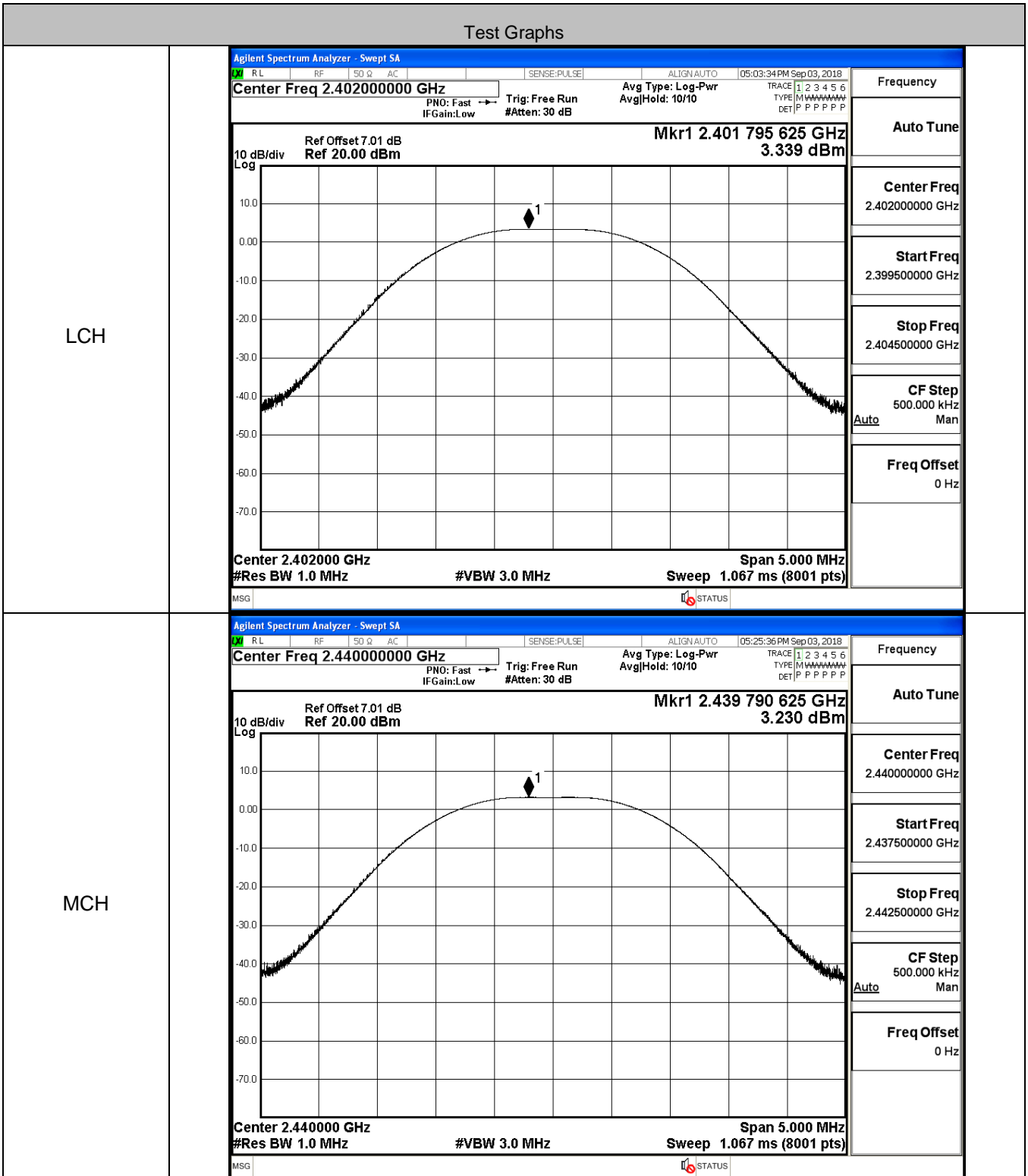
B.1 Duty Cycle

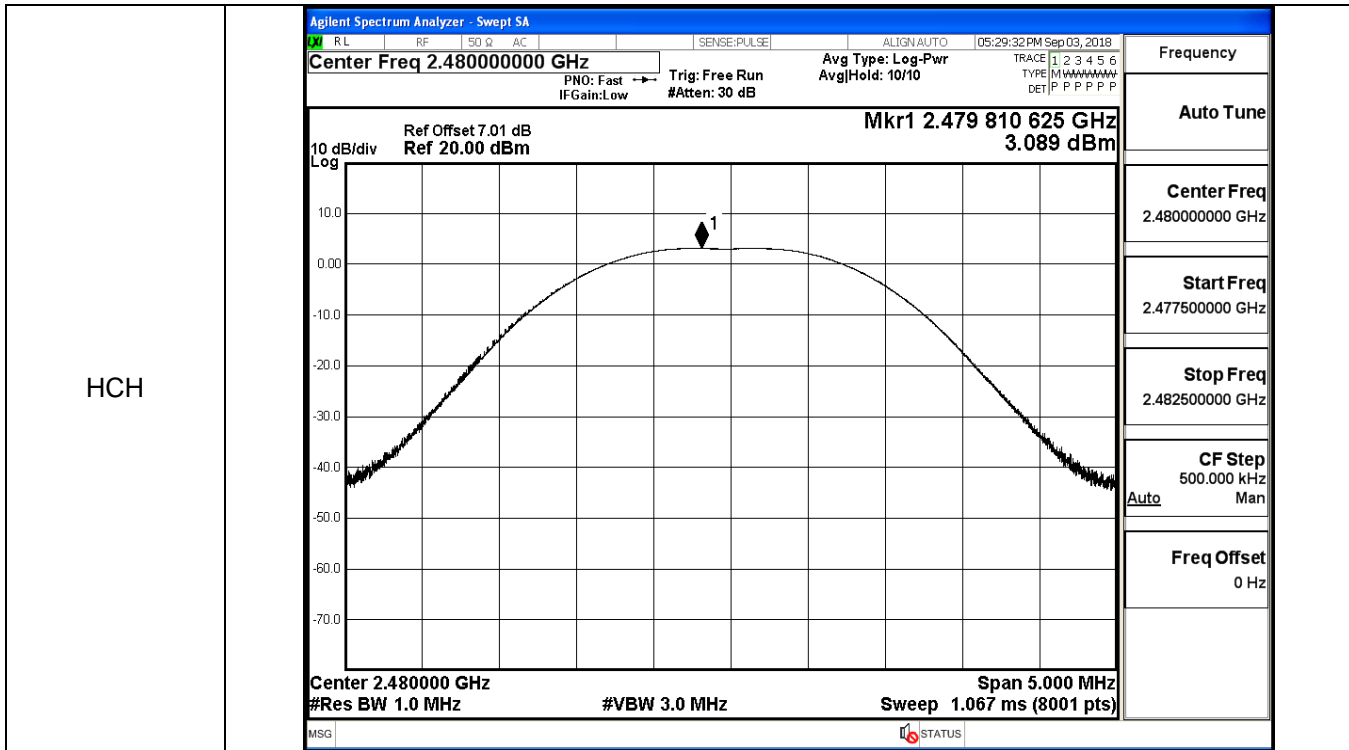
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



B.2 Maximum Conducted Peak Output Power

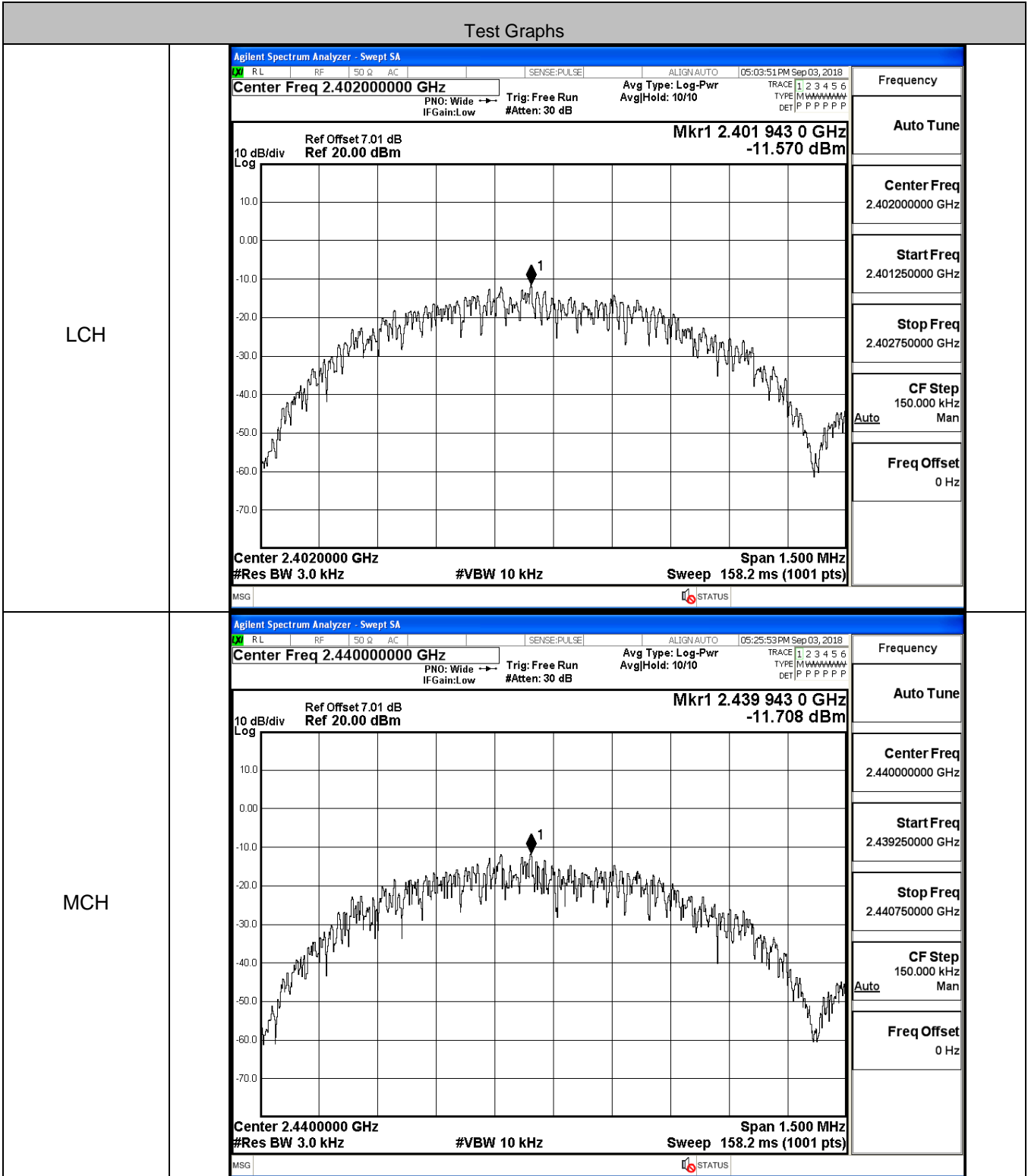
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	3.339	30	PASS
BT LE	MCH	3.230	30	PASS
BT LE	HCH	3.089	30	PASS



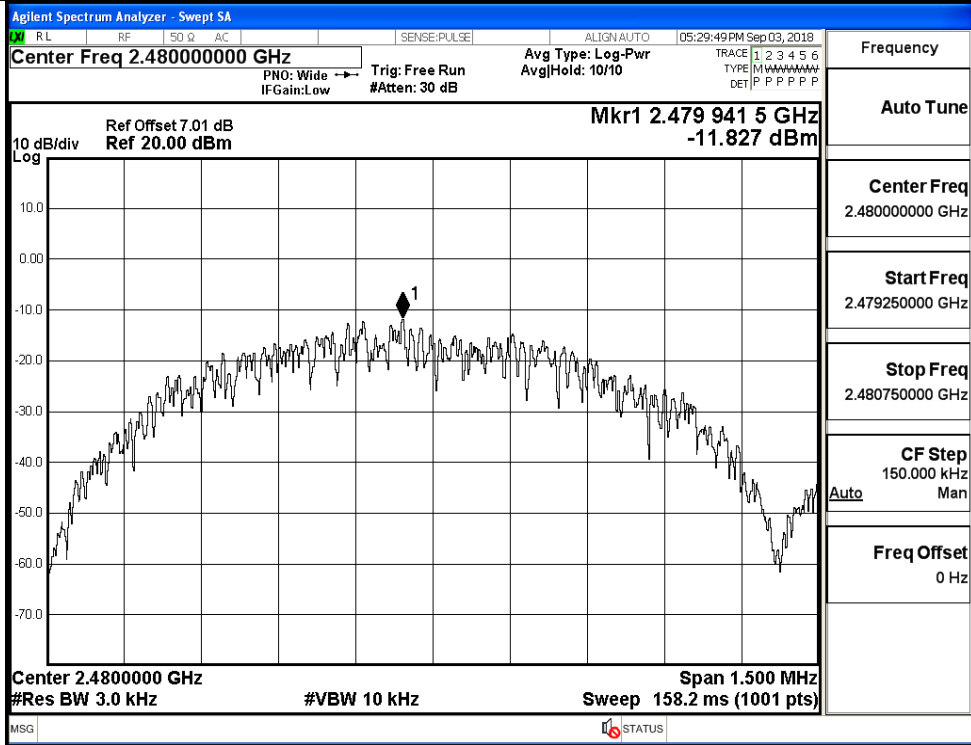


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-11.570	8	PASS
BT LE	MCH	-11.708	8	PASS
BT LE	HCH	-11.827	8	PASS



HCH



Frequency
Auto Tune
Center Freq 2.480000000 GHz
Start Freq 2.479250000 GHz
Stop Freq 2.480750000 GHz
CF Step 150.000 kHz Auto Man
Freq Offset 0 Hz

B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6854	≥0.5	PASS
BT LE	MCH	0.6835	≥0.5	PASS
BT LE	HCH	0.6935	≥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>Trig: Free Run AvgHold>1/1</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 7.01 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.4019591 GHz</p> <p>2.5690 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 2.402 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 3 MHz</p> <p>Sweep 1.067 ms</p> <p>Occupied Bandwidth 1.0420 MHz</p> <p>Total Power 9.61 dBm</p> <p>Transmit Freq Error -31.236 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 685.4 kHz</p> <p>x dB -6.00 dB</p>
	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.44000000 GHz</p> <p>Center Freq: 2.44000000 GHz</p> <p>Trig: Free Run AvgHold>1/1</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 7.01 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.4399614 GHz</p> <p>2.4756 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 2.44 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 3 MHz</p> <p>Sweep 1.067 ms</p> <p>Occupied Bandwidth 1.0406 MHz</p> <p>Total Power 9.53 dBm</p> <p>Transmit Freq Error -32.295 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 683.5 kHz</p> <p>x dB -6.00 dB</p>
MCH	

HCH

Agilent Spectrum Analyzer - Occupied BW

RL	RF	50 Ω	AC	SENSE:PULSE	ALIGN:AUTO	05:29:17 PM Sep 03, 2018
Center Freq 2.480000000 GHz			Center Freq: 2.480000000 GHz		Radio Std: None	
			Trig: Free Run		AvgHold>1/1	
#IFGain:Low			#Atten: 30 dB		Radio Device: BTS	

10 dB/div	Ref Offset 7.01 dB	Mkr1 2.4799618 GHz
Log	Ref 20.00 dBm	2.3468 dBm

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

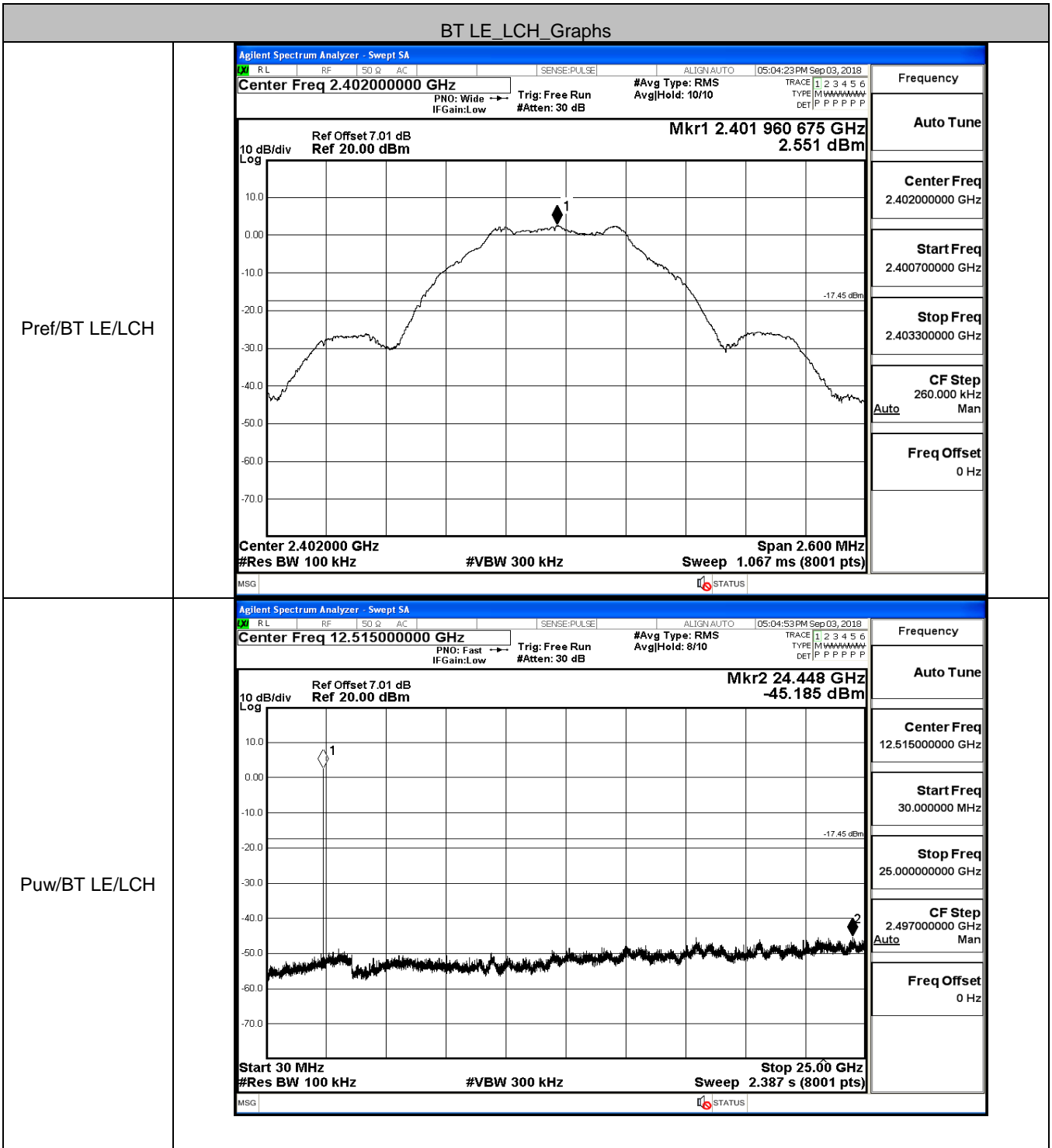
Occupied Bandwidth	Total Power	9.40 dBm
1.0409 MHz		
Transmit Freq Error	-32.332 kHz	OBW Power
x dB Bandwidth	693.5 kHz	x dB
		99.00 %
		-6.00 dB

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

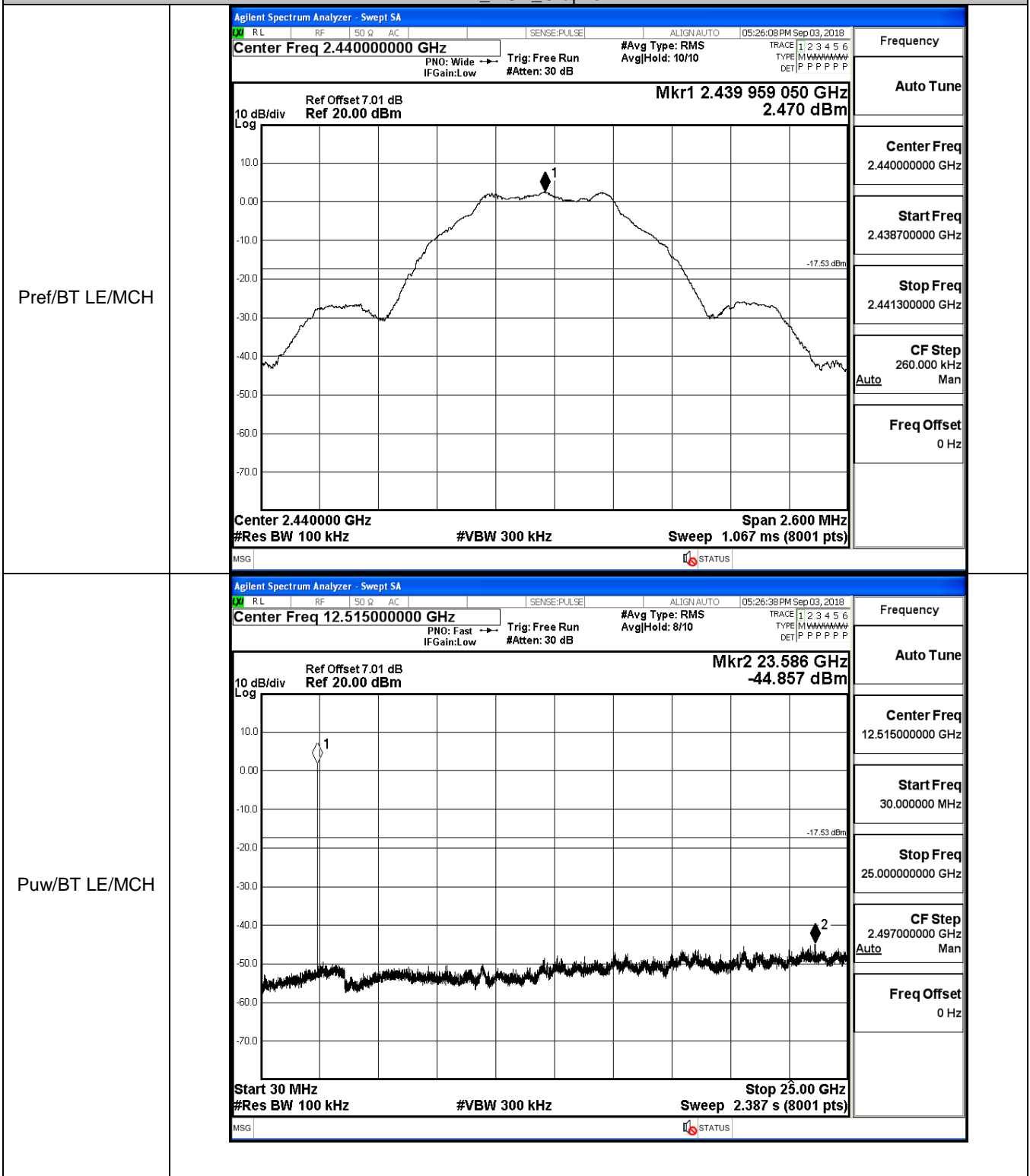
MSG
STATUS

B.5 RF Conducted Spurious Emissions

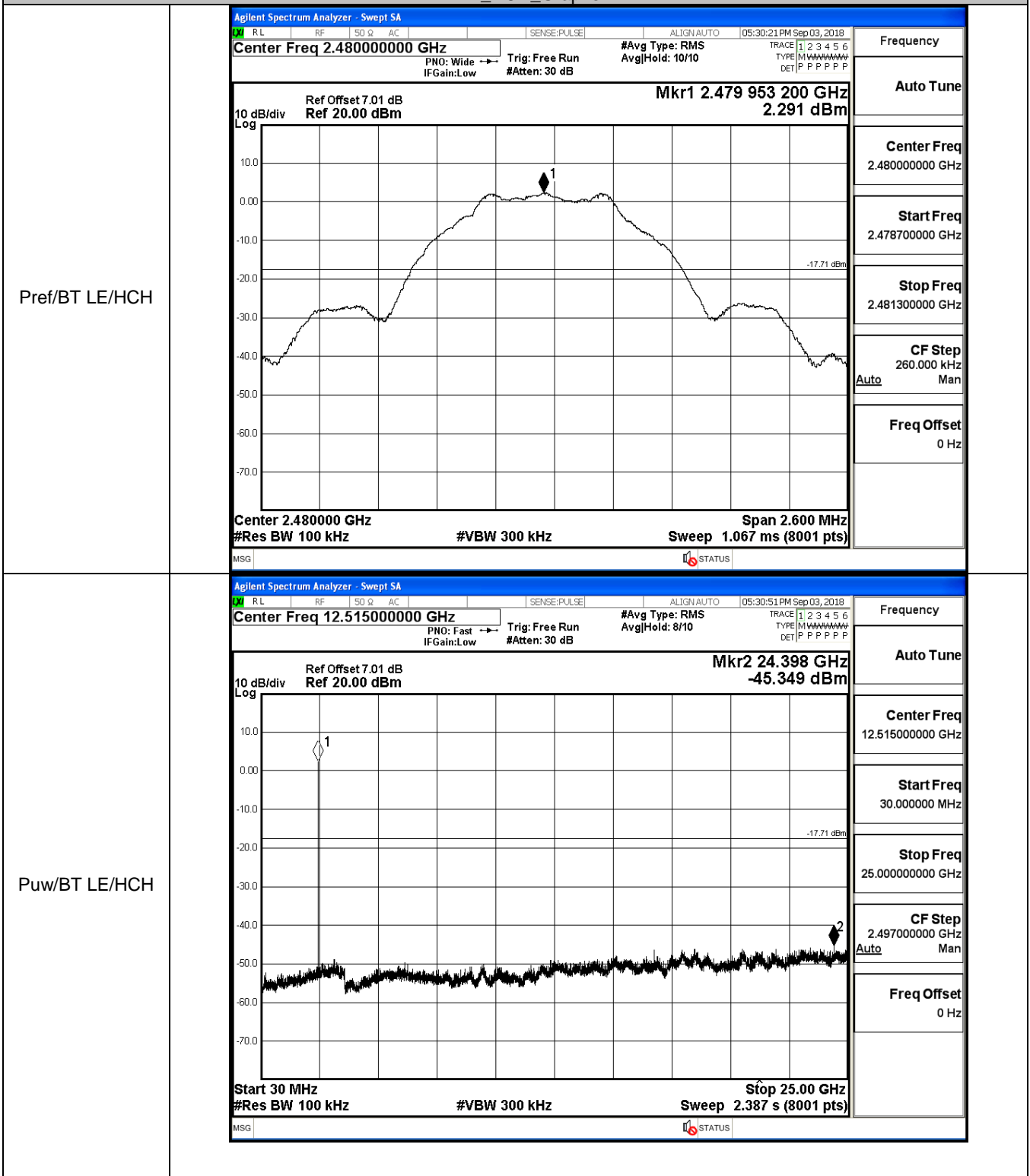
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.551	-45.185	-17.449	PASS
BT LE	MCH	2.47	-44.857	-17.530	PASS
BT LE	HCH	2.291	-45.349	-17.709	PASS



BT LE_MCH_Graphs



BT LE_HCH_Graphs



B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.719	-50.949	-17.28	PASS
BT LE	HCH	2.502	-51.327	-17.5	PASS

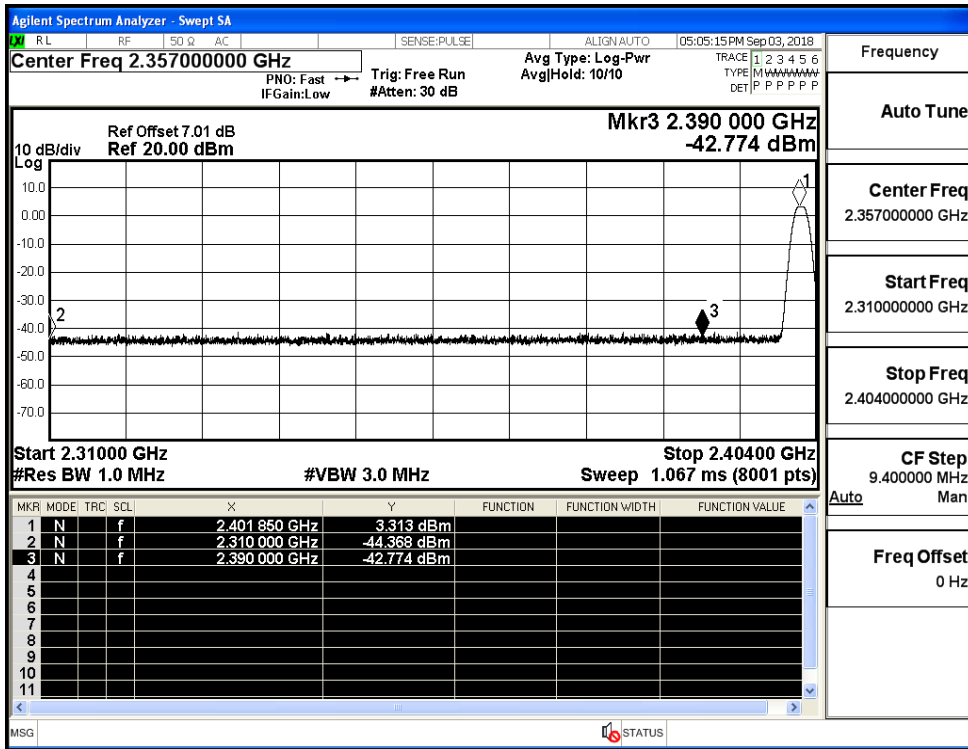
Test Graphs

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>

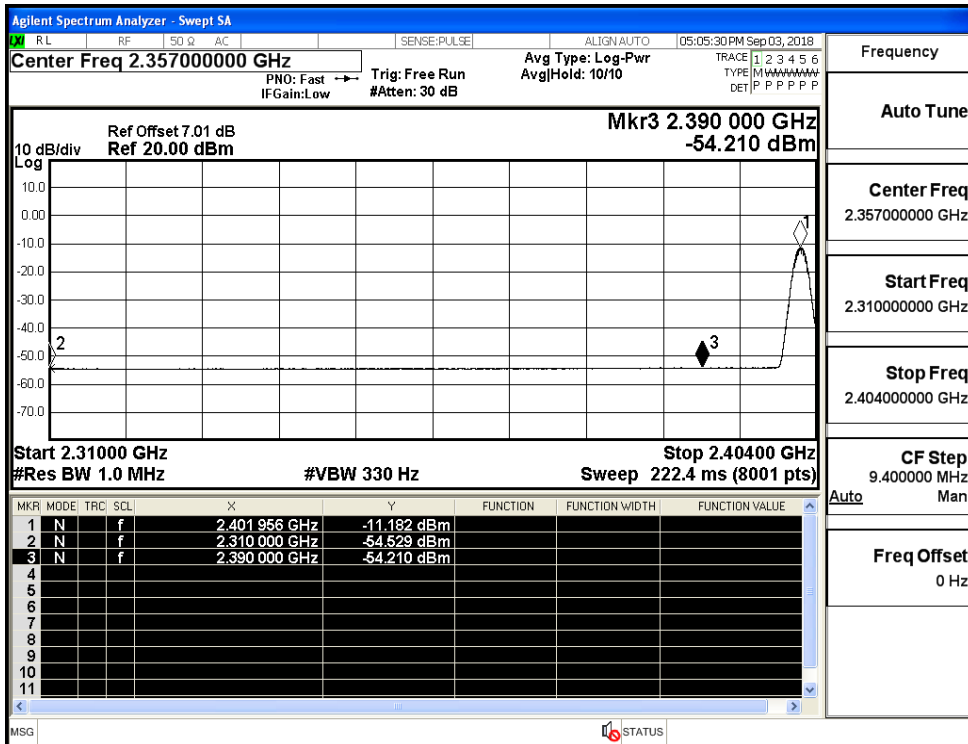
B.7 Restrict-band band-edge measurements

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	-44.37	2.5	0	53.39	PEAK	74	PASS
		Ant1	2310.0	-54.53	2.5	0	43.23	AV	54	PASS
		Ant1	2390.0	-42.77	2.5	0	54.99	PEAK	74	PASS
		Ant1	2390.0	-54.21	2.5	0	43.55	AV	54	PASS
	2480	Ant1	2483.5	-42.24	2.5	0	55.52	PEAK	74	PASS
		Ant1	2483.5	-53.91	2.5	0	43.85	AV	54	PASS
		Ant1	2500.0	-43.78	2.5	0	53.98	PEAK	74	PASS
		Ant1	2500.0	-53.92	2.5	0	43.84	AV	54	PASS

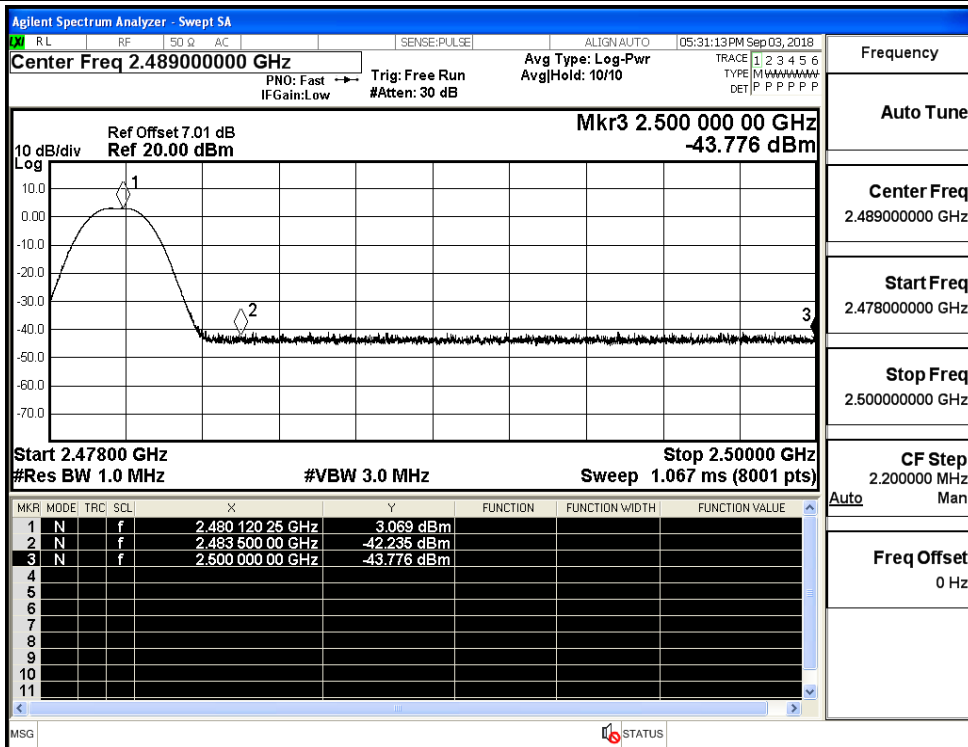
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

