Appendix B
RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement)
Product Name: Trolley Rechargeable Speaker

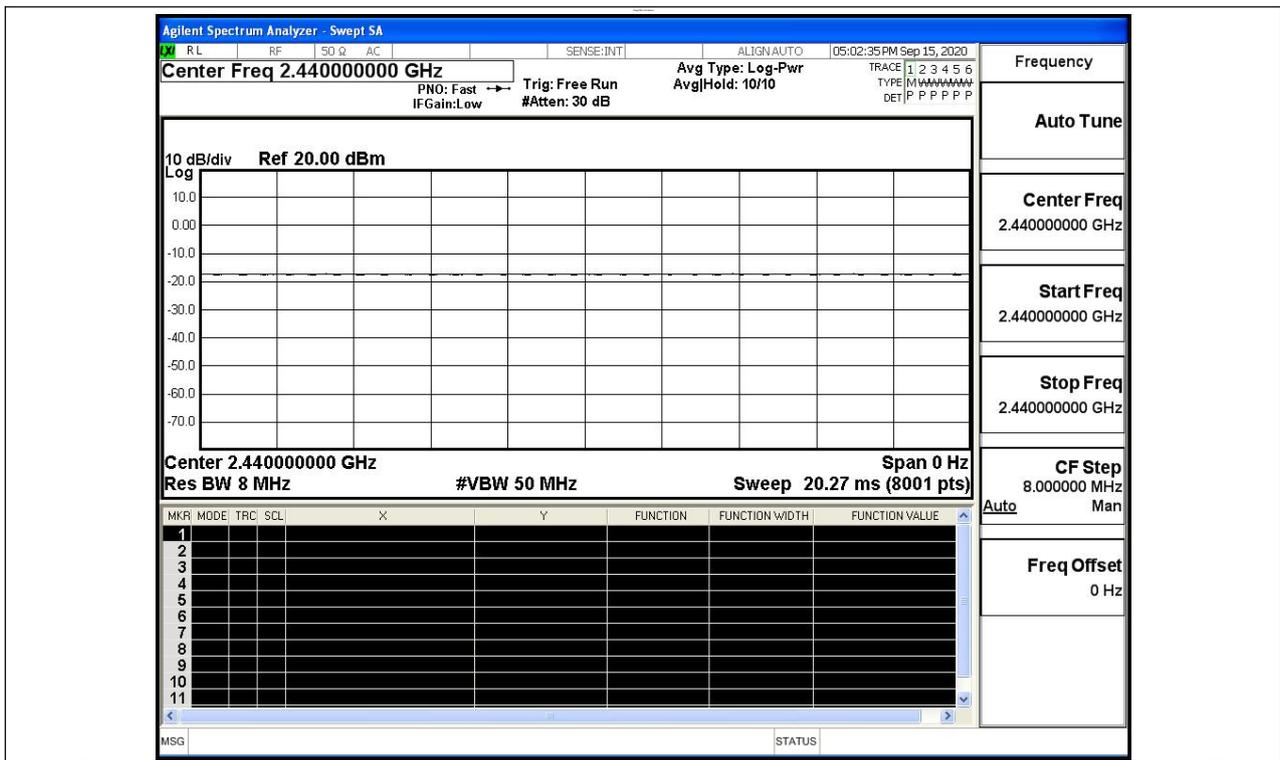## Trade Mark: PearTronics
Test Model: PT 1243

Environmental Conditions

Temperature:	22.6° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

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	-6.925	30	PASS
BT LE	MCH	-9.675	30	PASS
BT LE	HCH	-11.891	30	PASS

Test Graphs	
LCH	
MCH	

HCH
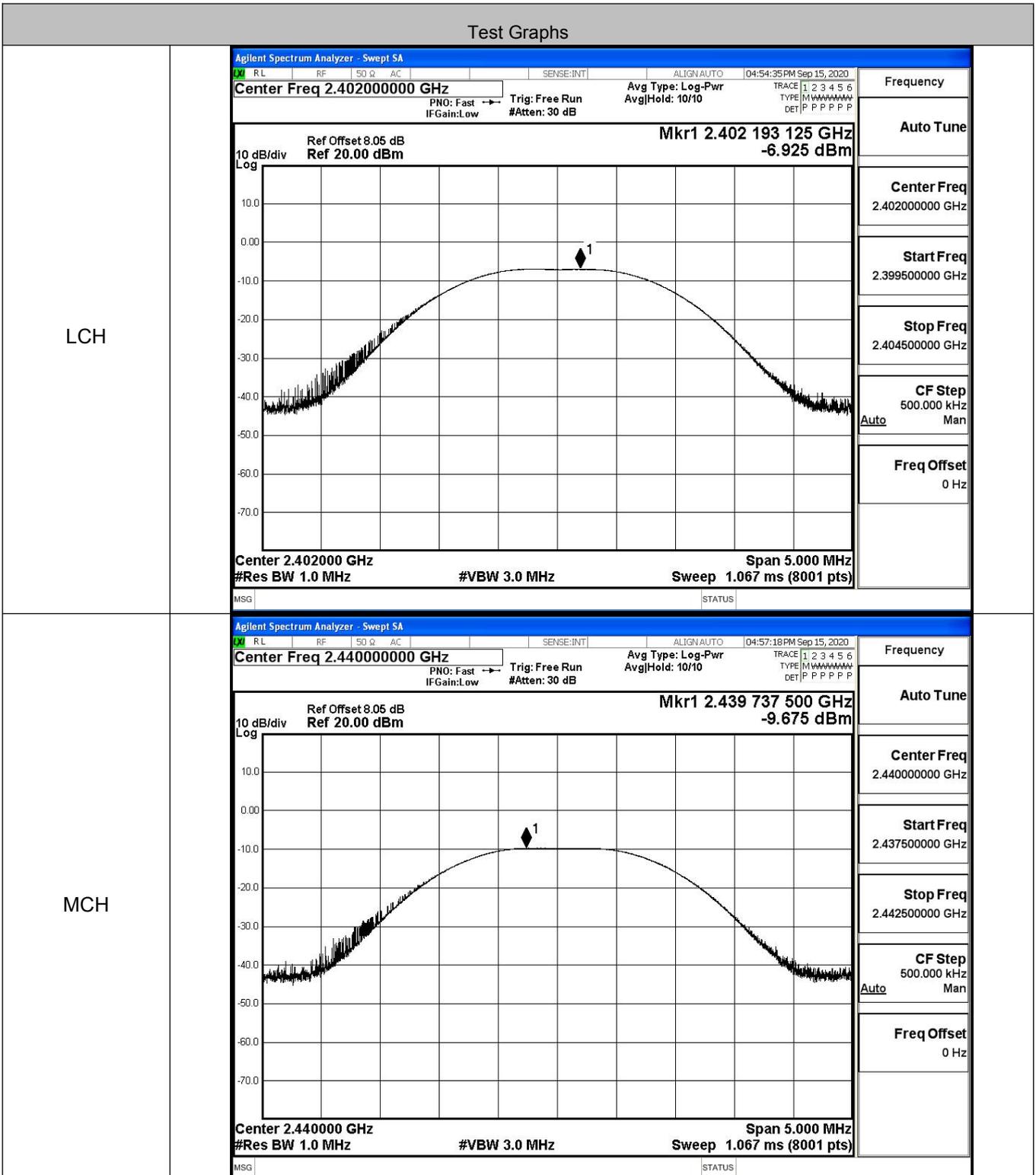
B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-22.097	8	PASS
BT LE	MCH	-25.032	8	PASS
BT LE	HCH	-27.154	8	PASS

Test Graphs	
LCH	
MCH	

HCH
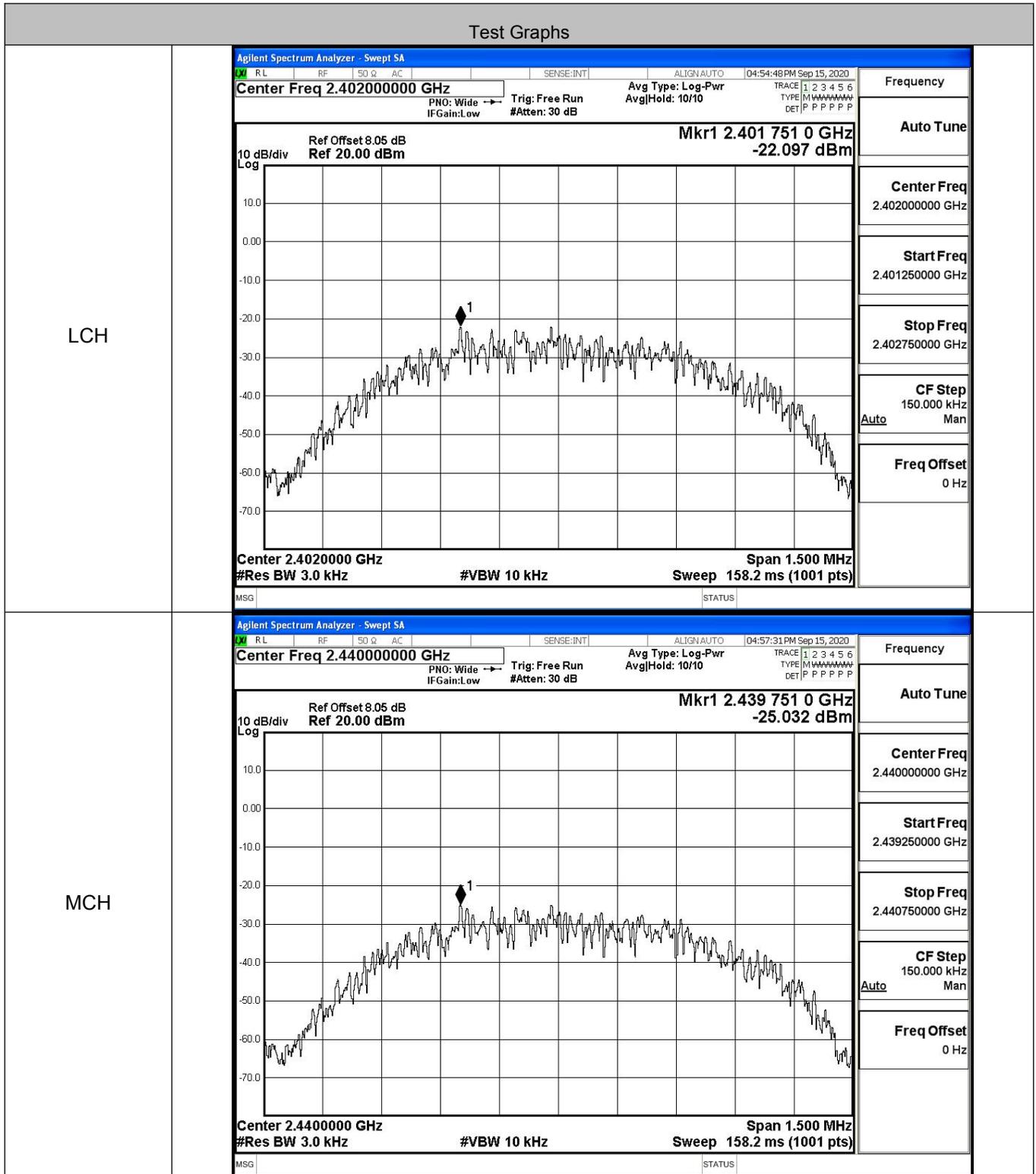
B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6863	≥0.5	PASS
BT LE	MCH	0.6885	≥0.5	PASS
BT LE	HCH	0.6922	≥0.5	PASS

Test Graphs

LCH	
MCH	

HCH

Agilent Spectrum Analyzer - Occupied BW

				SENSE:INT	ALIGN AUTO	04:59:52 PM Sep 15, 2020

Center Freq 2.480000000 GHz

Center Freq: 2.480000000 GHz   Radio Std: None
Trig: Free Run   Avg|Hold: 1/1
#IFGain:Low   #Atten: 30 dB   Radio Device: BTS

Ref Offset 8.05 dB
10 dB/div   Ref 20.00 dBm

Mkr1 2.4797559 GHz
-12.235 dBm

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

Occupied Bandwidth		Total Power	-5.75 dBm
1.0389 MHz			
Transmit Freq Error	24.417 kHz	OBW Power	99.00 %
x dB Bandwidth	692.2 kHz	x dB	-6.00 dB

Frequency

Center Freq
2.480000000 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	-7.125	-36.426	-27.125	PASS
BT LE	MCH	-9.897	-37.748	-29.897	PASS
BT LE	HCH	-12.366	-36.232	-32.366	PASS

BT LE_LCH_Graphs	
Pref/BT LE/LCH	
Puw/BT LE/LCH	
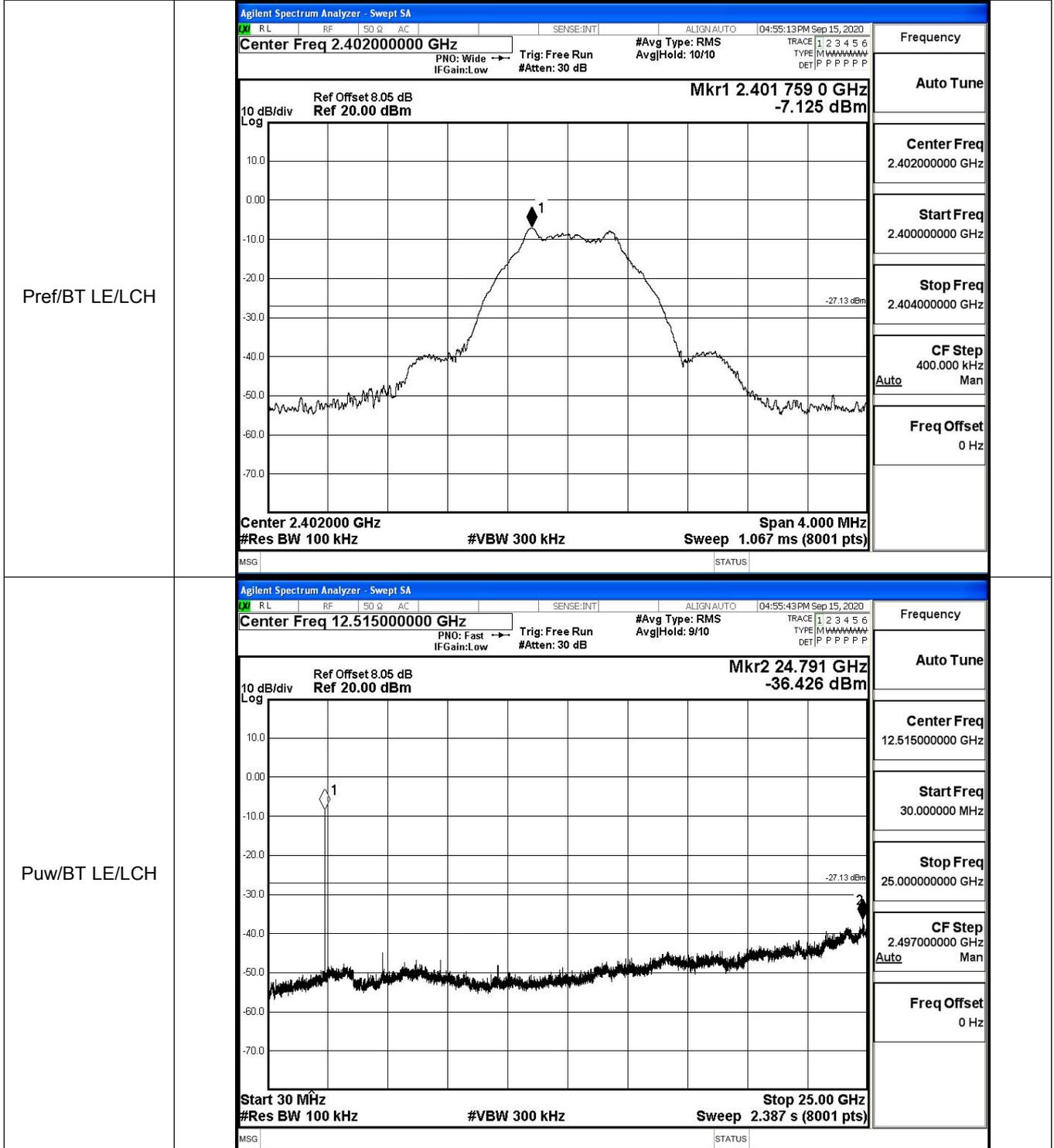
	BT LE_MCH_Graphs
Pref/BT LE/MCH	
Puw/BT LE/MCH	
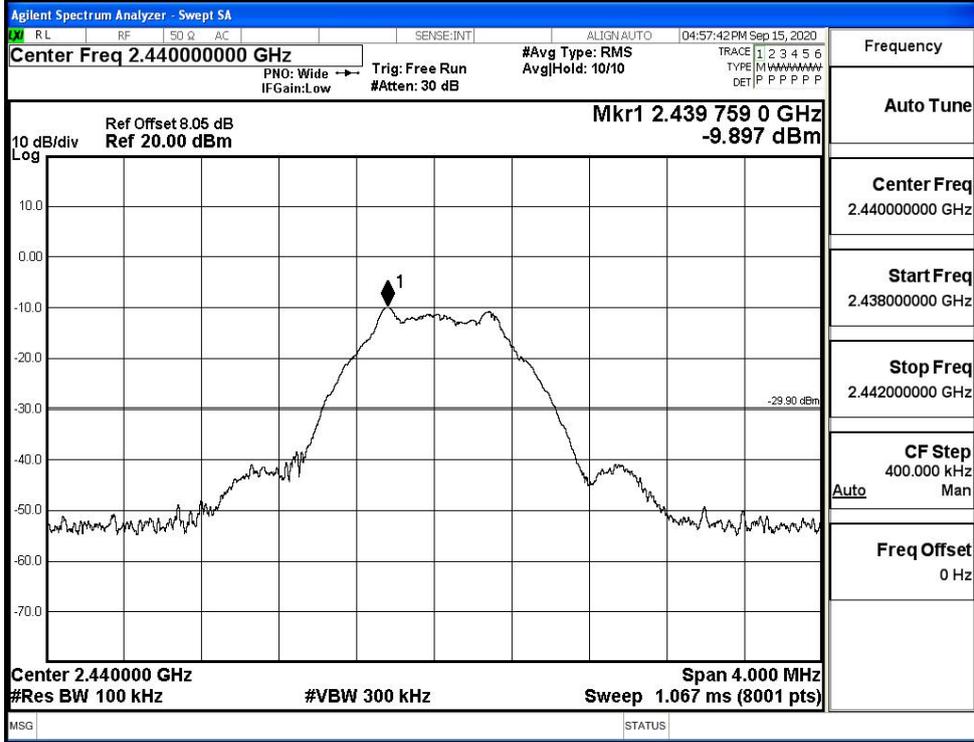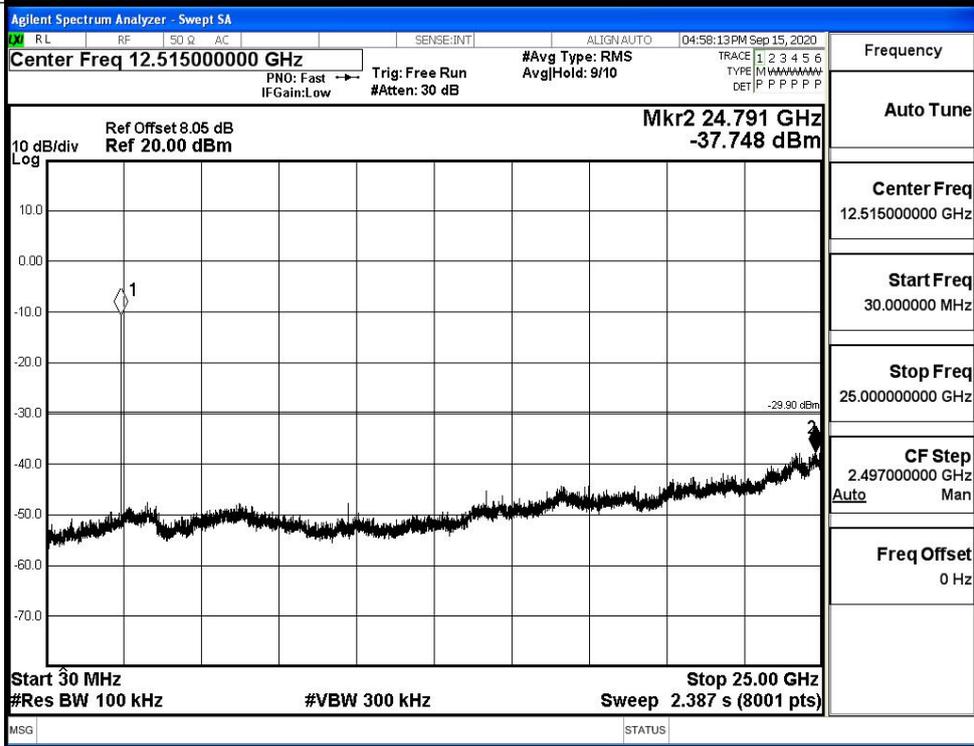
	BT LE_HCH_Graphs
Pref/BT LE/HCH	
Puw/BT LE/HCH	
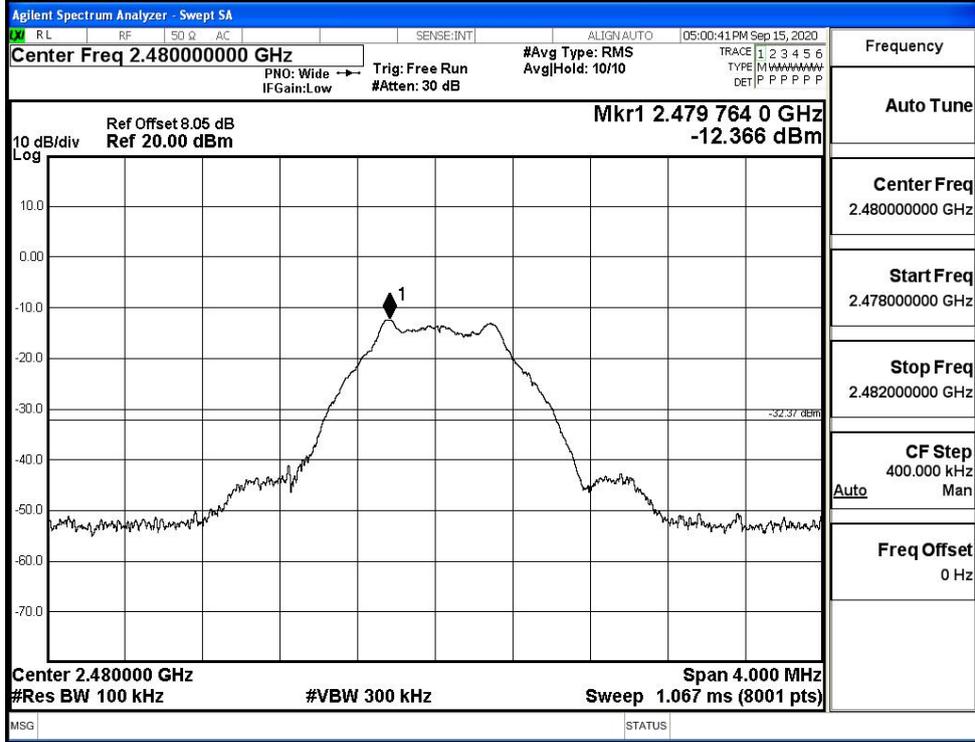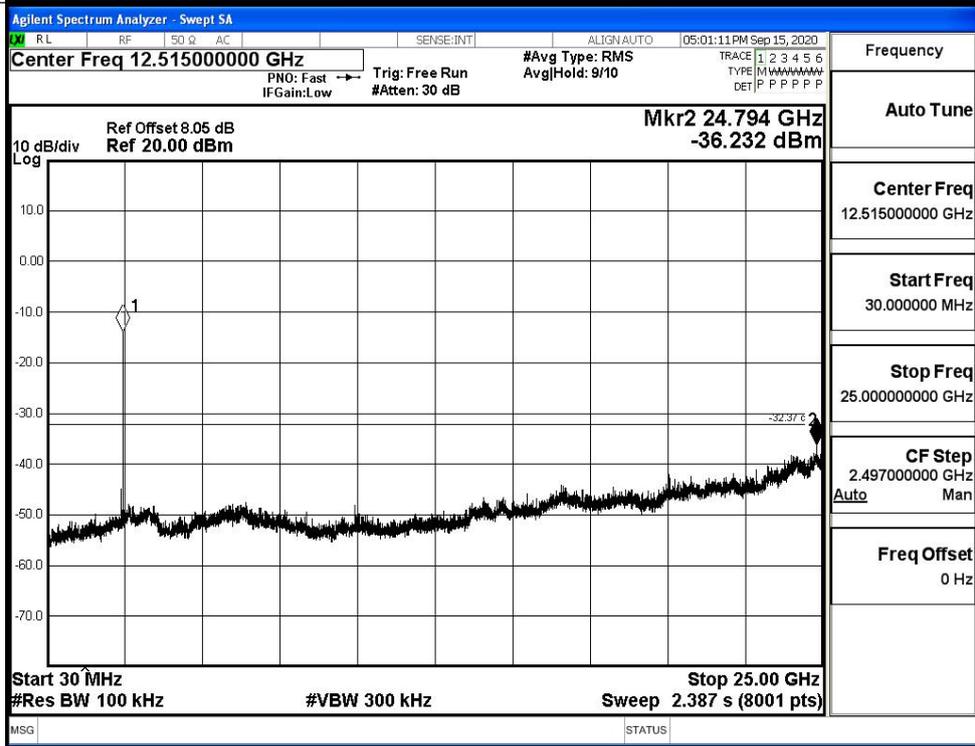
B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-7.104	-48.472	-27.1	PASS
BT LE	HCH	-12.243	-49.024	-32.24	PASS

| Test Graphs	
LCH	
HCH	

B.7 Restrict-band band-edge measurements

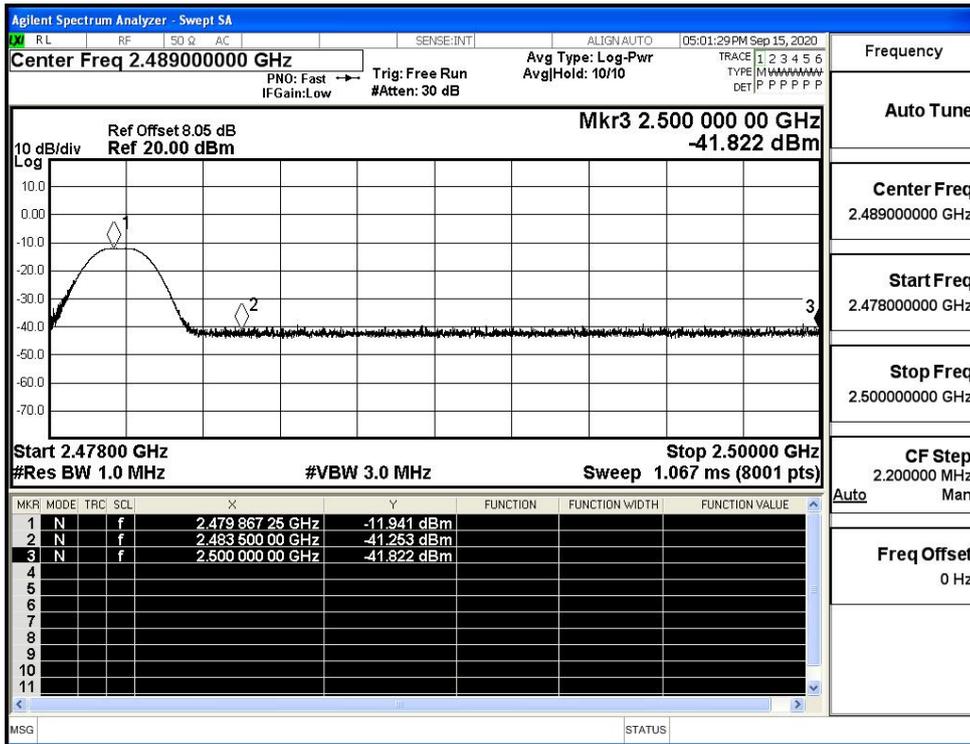| Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi.
BT LE	2402	Ant1	2310.0	-43.66	2.0	0	53.57	PEAK	74	PASS
		Ant1	2310.0	-53.37	2.0	0	43.86	AV	54	PASS
		Ant1	2390.0	-42.32	2.0	0	54.91	PEAK	74	PASS
		Ant1	2390.0	-52.99	2.0	0	44.24	AV	54	PASS
	2480	Ant1	2483.5	-41.25	2.0	0	55.98	PEAK	74	PASS
		Ant1	2483.5	-52.52	2.0	0	44.71	AV	54	PASS
		Ant1	2500.0	-41.82	2.0	0	55.41	PEAK	74	PASS
		Ant1	2500.0	-52.37	2.0	0	44.86	AV	54	PASS

Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK
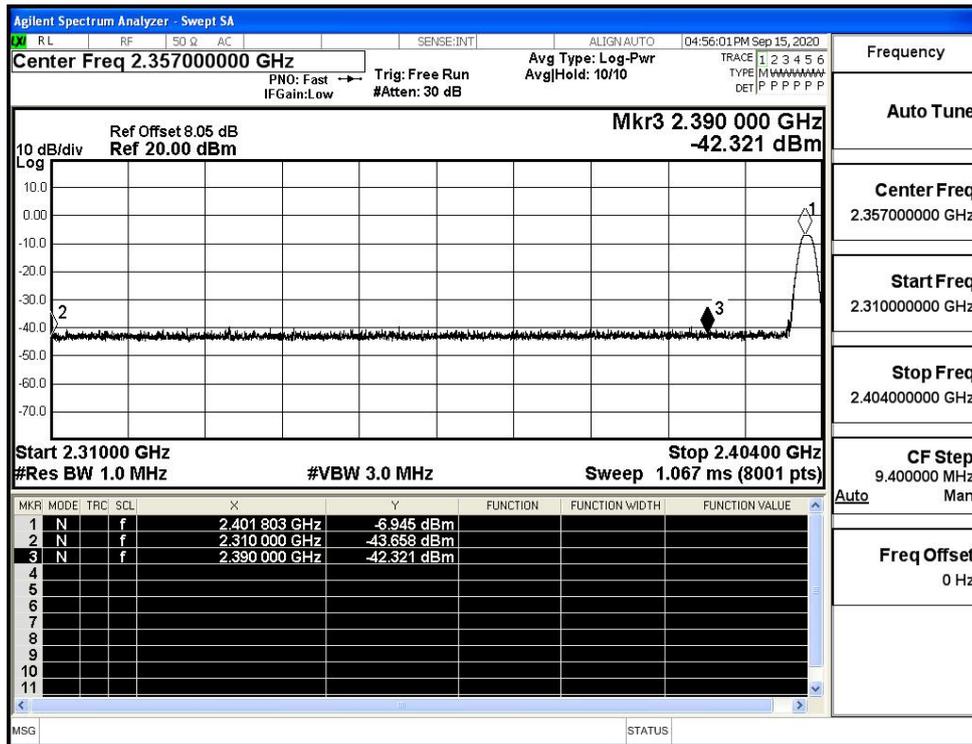
Restrict-band band-edge measurements_BT LE_2402_Ant1_AV
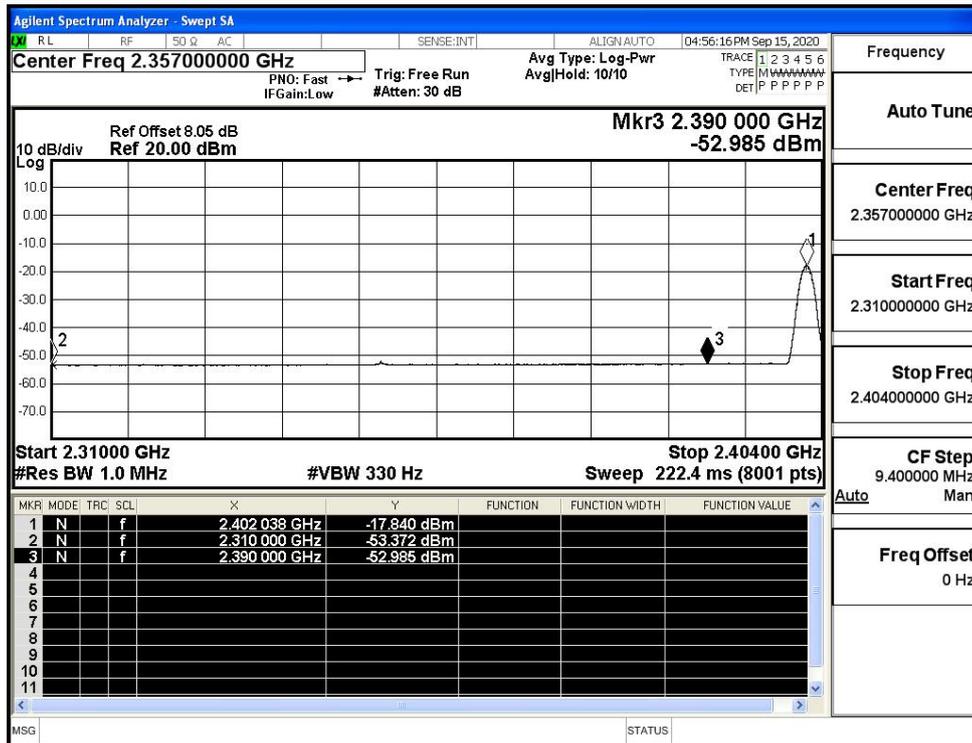
Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK

Restrict-band band-edge measurements_BT LE_2480_Ant1_AV