# **Appendix B**

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

Product Name: Fitness band
Trade Mark: N/A

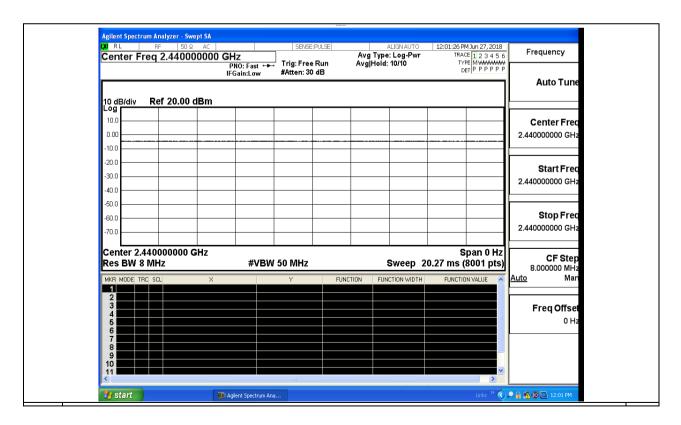
Test Model: SC-67FB

### **Environmental Conditions**

Temperature:	23.5 ° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Ryan.Hu
Supervised by:	Jayden.Zhuo

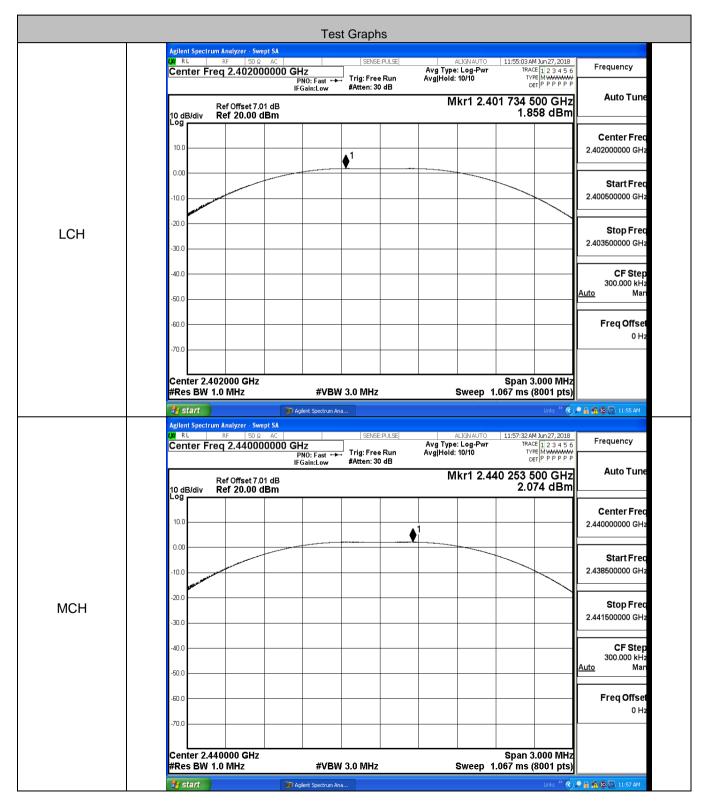
# **A.1 Duty Cycle**

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

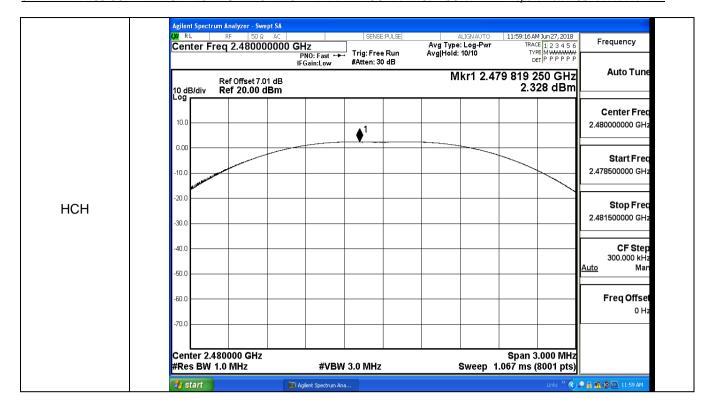


## **A.2 Maximum Conducted Peak Output Power**

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.858	30	PASS
BT LE	MCH	2.074	30	PASS
BT LE	HCH	2.328	30	PASS

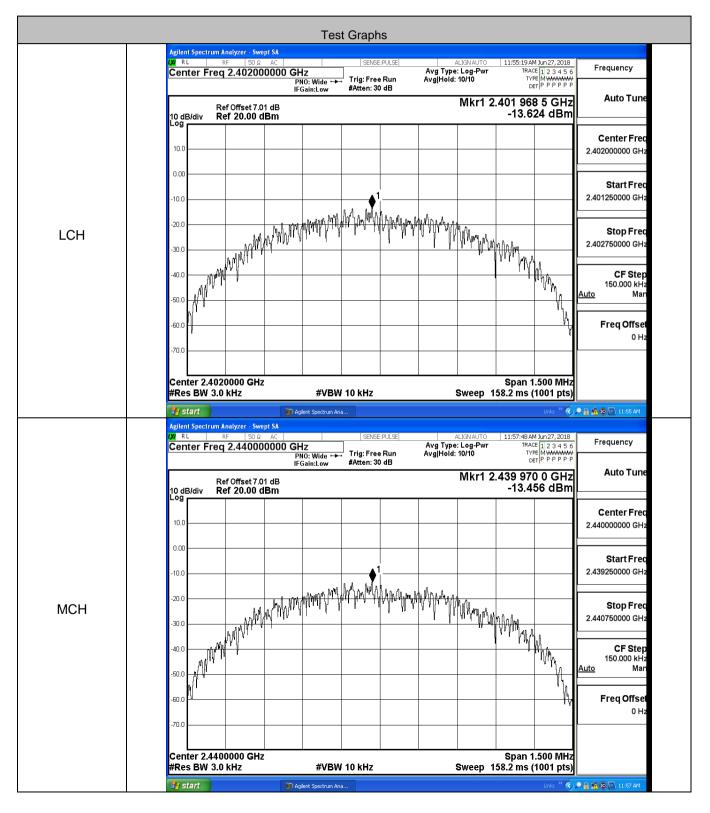


### SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AC5R-SC-67FB Report No.: LCS180613029AEA



## A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.624	8	PASS
BT LE	MCH	-13.456	8	PASS
BT LE	НСН	-13.139	8	PASS



#### SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AC5R-SC-67FB Report No.: LCS180613029AEA Agilent Spectrum Analyzer - Swept SA Avg Type: Log-Pwr Avg|Hold: 10/10 Frequency Trig: Free Run #Atten: 30 dB PNO: Wide +>+ IFGain:Low Mkr1 2.479 968 5 GHz -13.139 dBm Auto Tune Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div Log Center Fred 10.0 2.480000000 GH n no Start Fred -10.0 The state of the s 2.479250000 GHz Stop Fred **HCH** 2.480750000 GHz -30.0 **CF Step** 150.000 kHz -40.0 Man <u>Auto</u> -50.0 Freq Offset 0 H

#VBW 10 kHz

Span 1.500 MHz

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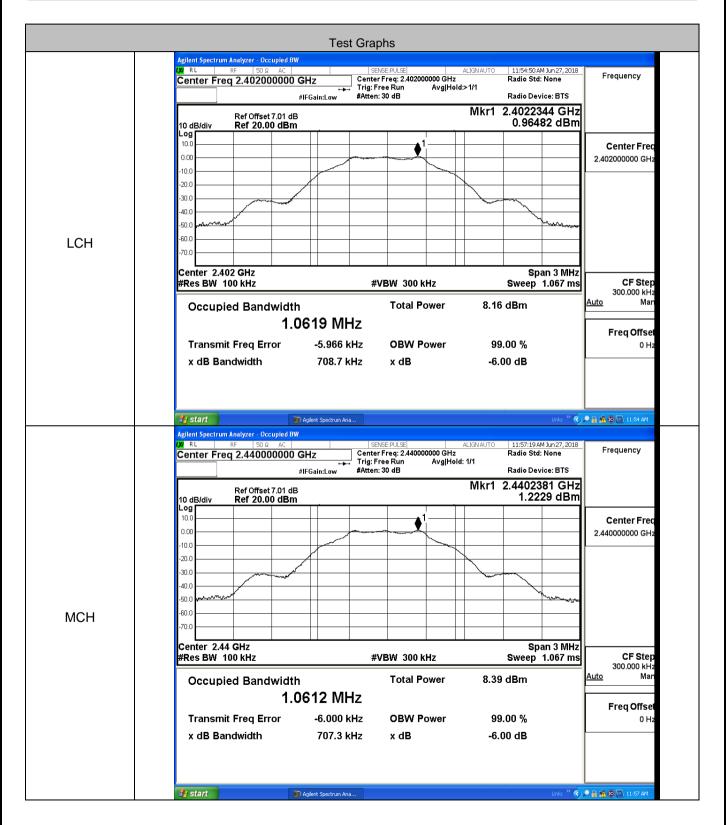
Sweep 158.2 ms (1001 pts)

Center 2.4800000 GHz

#Res BW 3.0 kHz

### A.4 6dB Bandwidth

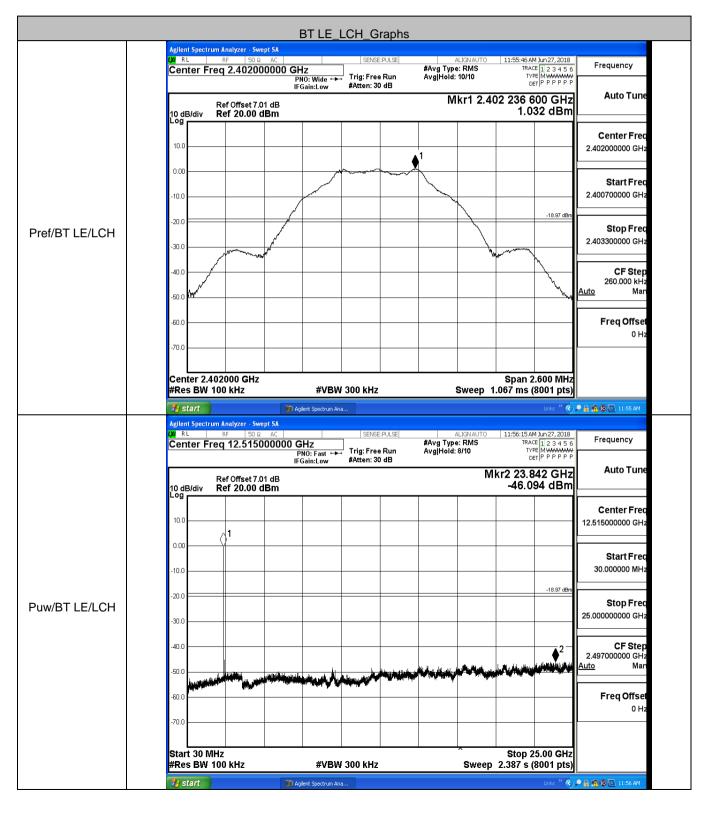
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7087	≥0.5	PASS
BT LE	MCH	0.7073	≥0.5	PASS
BT LE	HCH	0.7080	≥0.5	PASS

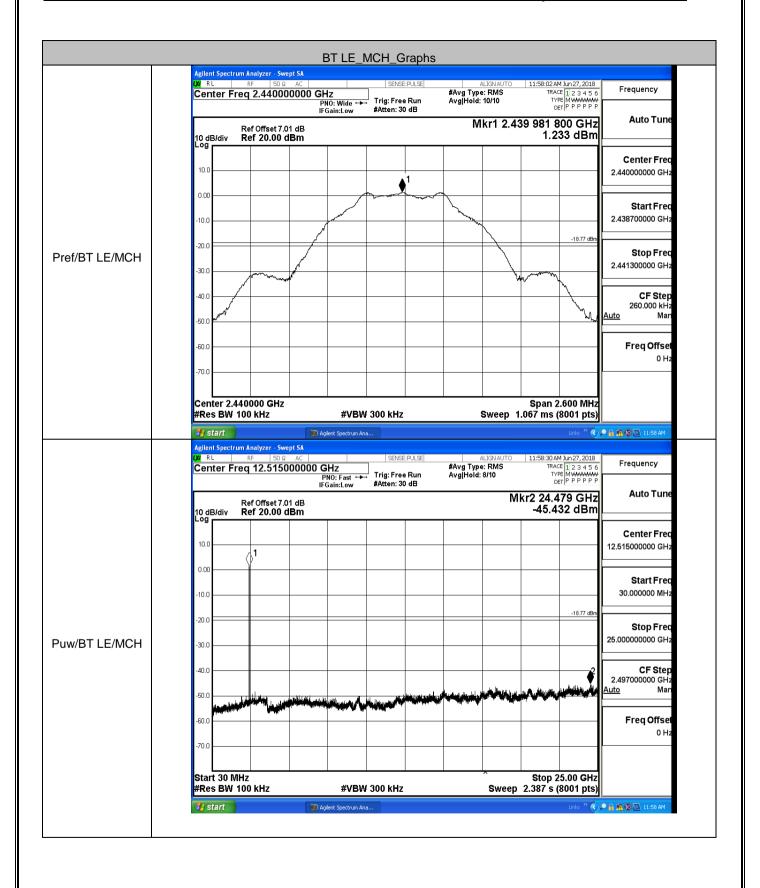


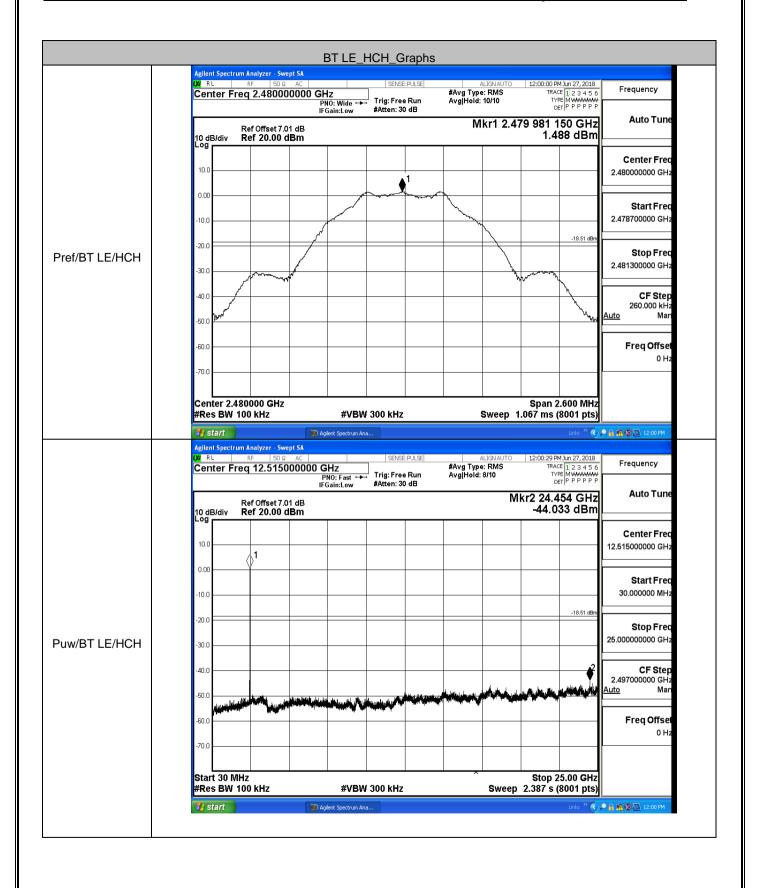
#### SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AC5R-SC-67FB Report No.: LCS180613029AEA Agilent Spectrum Analyzer - Occupied BW SENGE:PULSE ALIGN: Center Freq: 2.480000000 GHz Trig: Free Run Avg|Hold:>1/1 #Atten: 30 dB 11:59:02 AM Jun 27, 2018 Radio Std: None Frequency Radio Device: BTS Mkr1 2.4802363 GHz 1.4818 dBm Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div 10.0 Center Free 2.480000000 GH -1n n -20.0 30.0 40.0 -60.0 **HCH** Center 2.48 GHz #Res BW 100 kHz Span 3 MHz Sweep 1.067 ms CF Step 300.000 kHz **#VBW** 300 kHz Mar <u>Auto</u> **Total Power** 8.65 dBm Occupied Bandwidth 1.0600 MHz Freq Offse -6.474 kHz Transmit Freq Error **OBW Power** 99.00 % 0 H x dB Bandwidth 708.0 kHz -6.00 dB x dB ( ) P 🔓 📆 🔞 🔟 11:

## A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.032	-46.094	-18.968	PASS
BT LE	MCH	1.233	-45.432	-18.767	PASS
BT LE	НСН	1.488	-44.033	-18.512	PASS

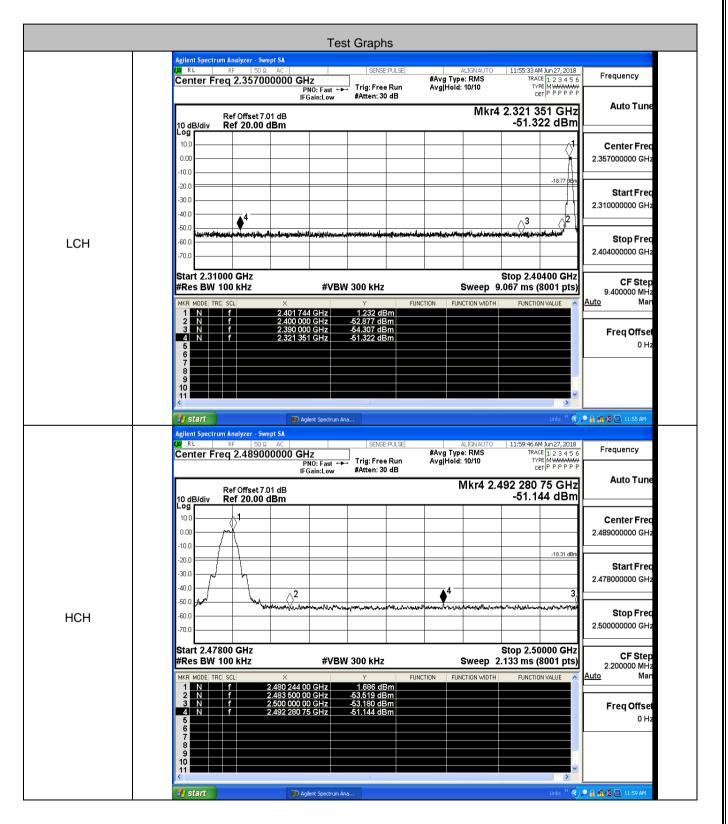






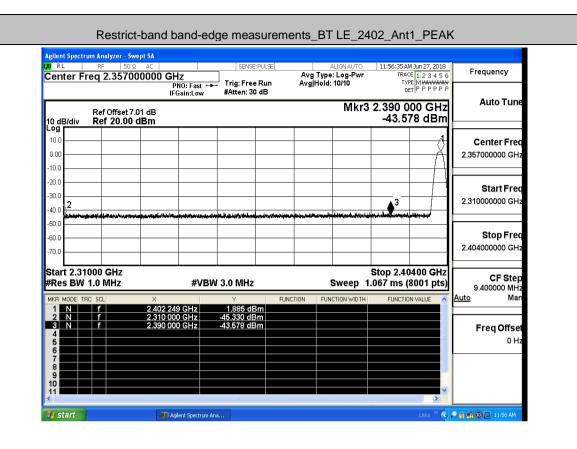
### A.6 Band-edge for RF Conducted Emissions

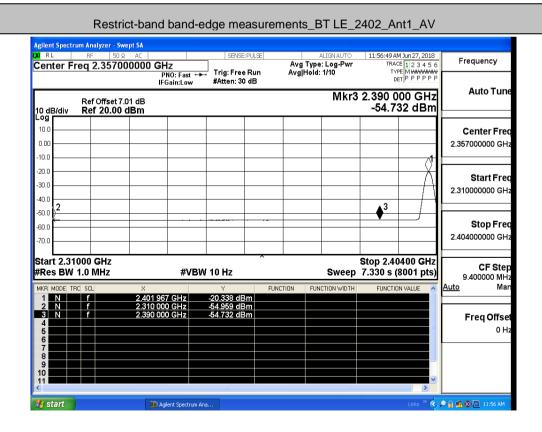
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.232	-51.322	-18.77	PASS
BT LE	HCH	1.686	-51.144	-18.31	PASS



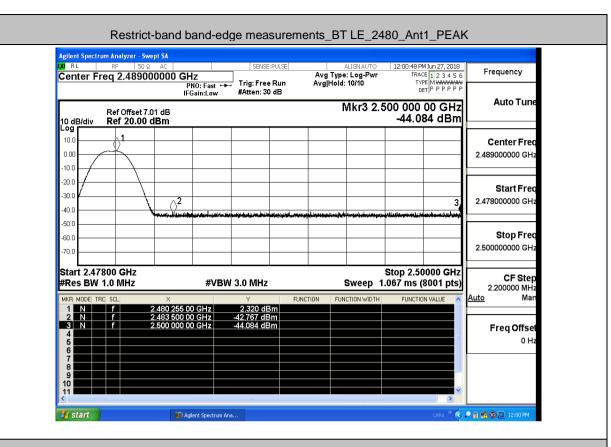
# A.7 Restrict-band band-edge measurements

Test Mode	Test Chann el	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/ m]	Verdi
		Ant1	2310.0	-45.33	2.0	0	51.93	PEAK	74	PASS
	2402	Ant1	2310.0	-54.96	2.0	0	42.30	AV	54	PASS
		Ant1	2390.0	-43.58	2.0	0	53.68	PEAK	74	PASS
		Ant1	2390.0	-54.73	2.0	0	42.53	AV	54	PASS
BT LE	2480	Ant1	2483.5	-42.77	2.0	0	54.49	PEAK	74	PASS
		Ant1	2483.5	-54.43	2.0	0	42.82	AV	54	PASS
		Ant1	2500.0	-44.08	2.0	0	53.17	PEAK	74	PASS
		Ant1	2500.0	-54.33	2.0	0	42.92	AV	54	PASS





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### Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_AV

