# **Appendix B**

# RF Test Data for BT V4.2(BDR/EDR) (Conducted Measurement)

Product Name: atomi Shower Speaker

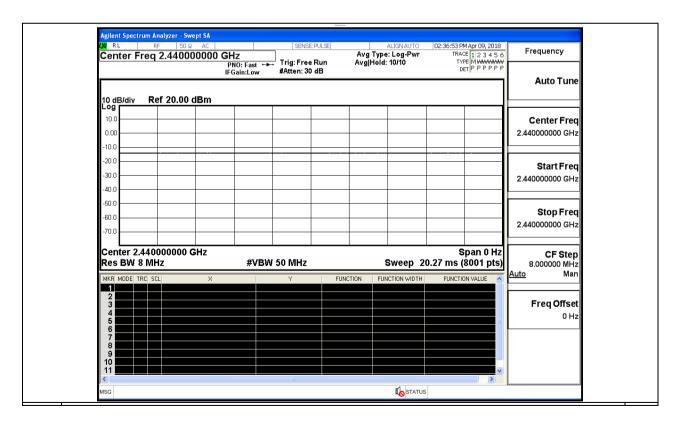
Trade Mark: atomi Test Model: AT1225

### **Environmental Conditions**

Temperature:	23.2 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Wangchuang
Supervised by:	Jayden Zhuo

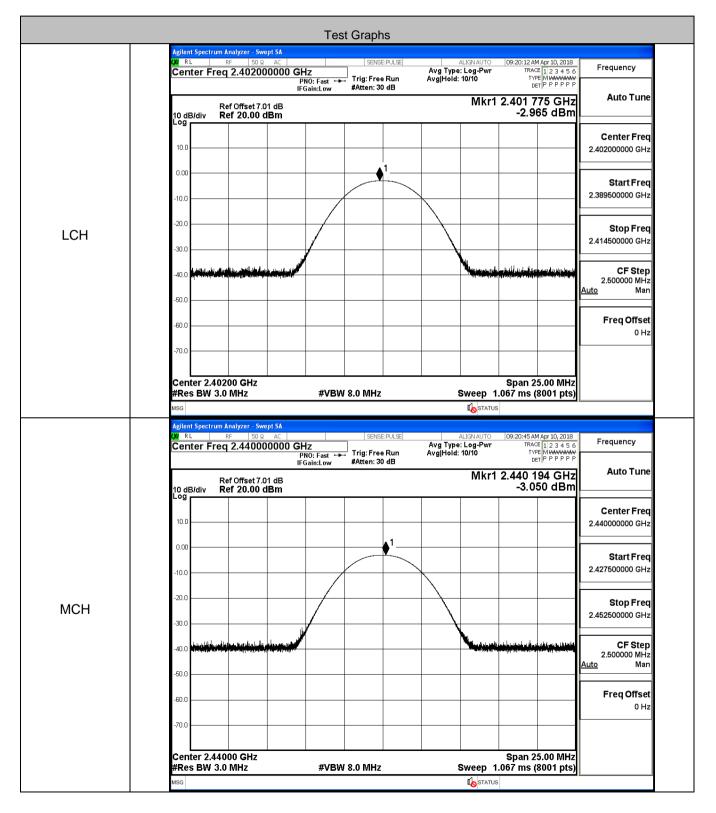
## **B.1 Duty Cycle**

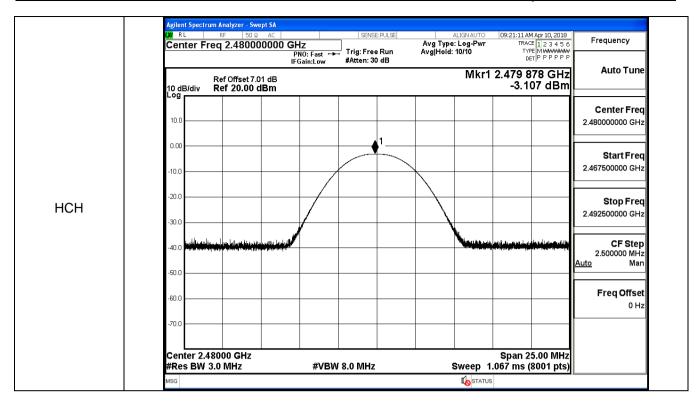
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



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

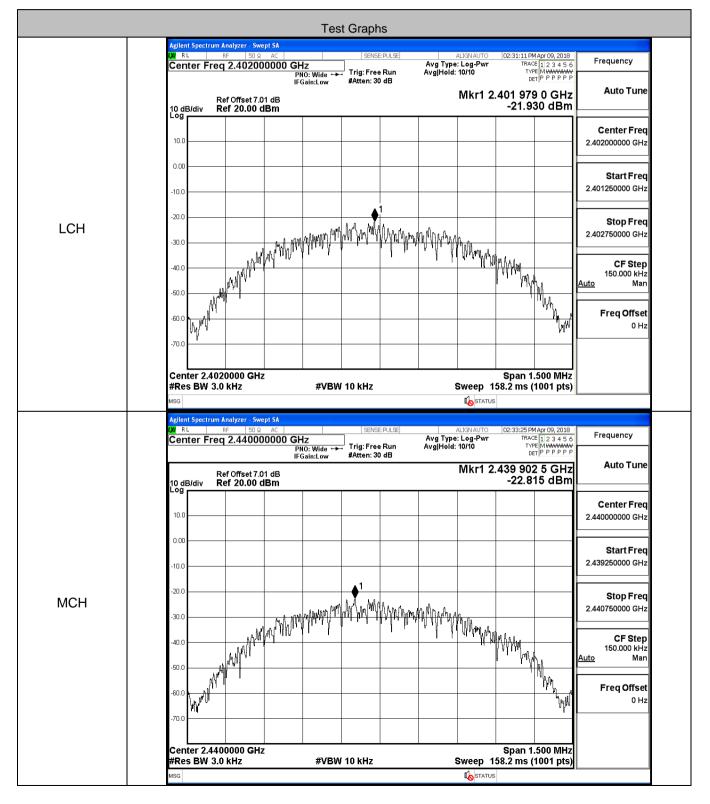
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.965	30	PASS
BT LE	MCH	-3.050	30	PASS
BT LE	НСН	-3.107	30	PASS



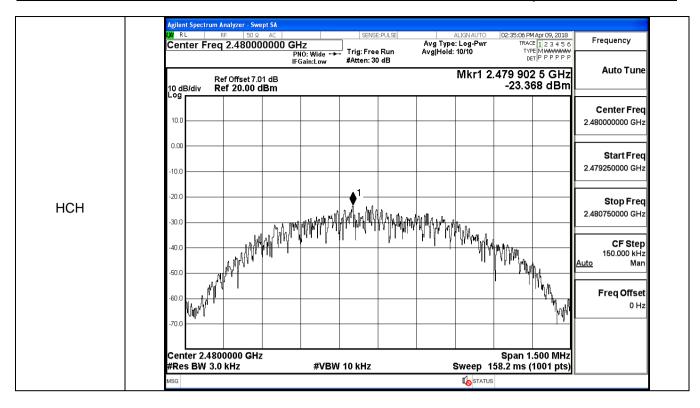


## **B.3 Maximum Power Spectral Density**

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-21.930	8	PASS
BT LE	MCH	-22.815	8	PASS
BT LE	НСН	-23.368	8	PASS

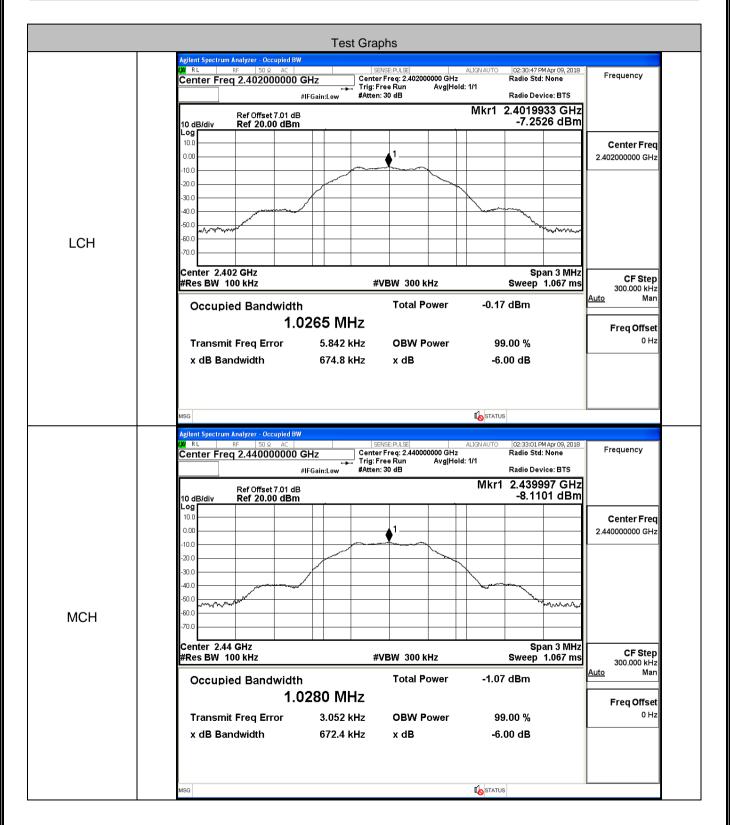


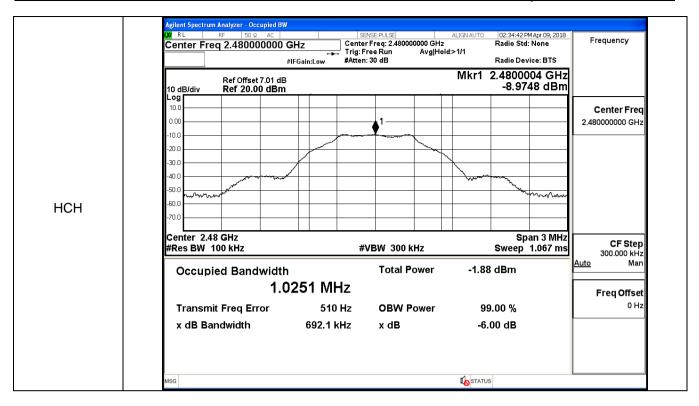
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### **B.4 6dB Bandwidth**

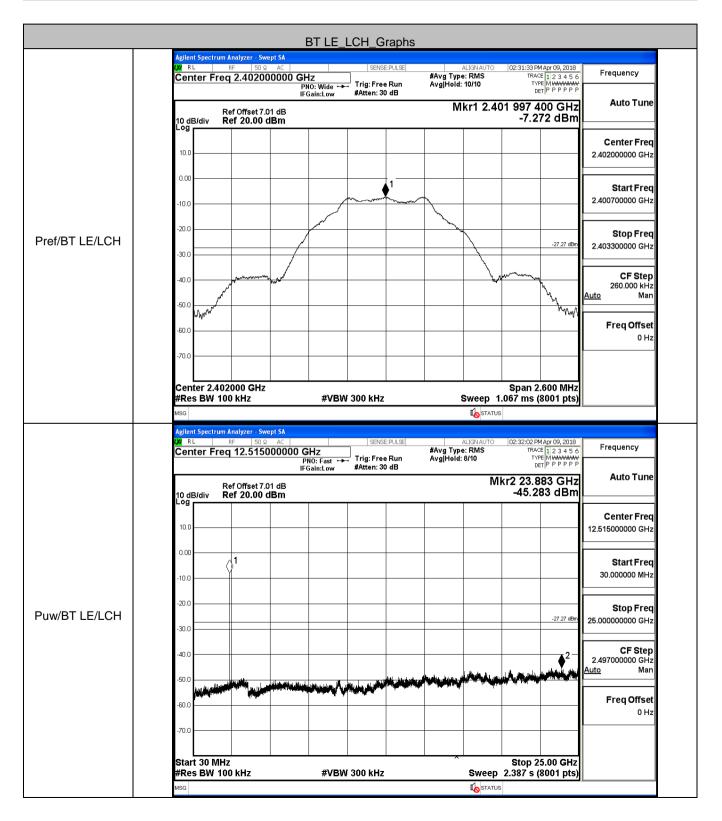
Mode	Channel	el 6dB Bandwidth [MHz] Limit [MHz]		Verdict
BT LE	LCH	0.6748	≥0.5	PASS
BT LE	MCH	0.6724	≥0.5	PASS
BT LE	HCH	0.6921	≥0.5	PASS

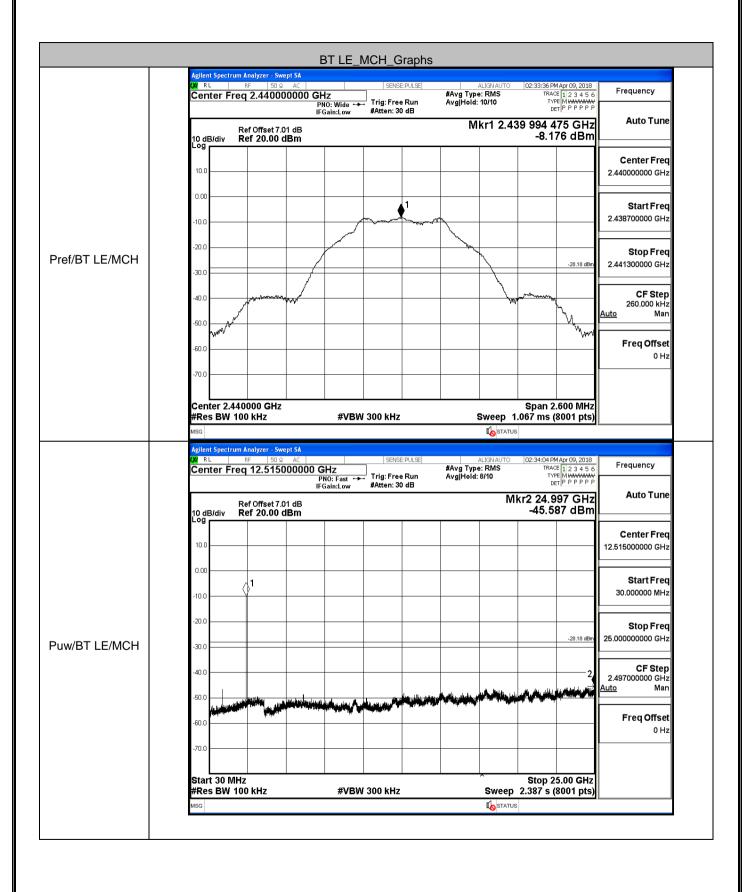


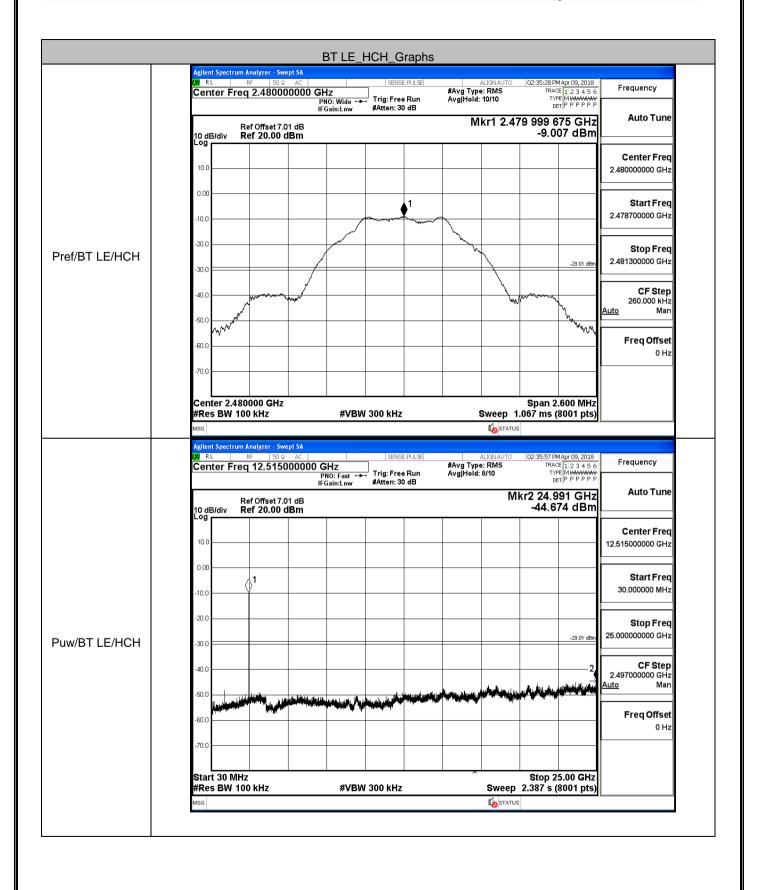


## **B.5 RF Conducted Spurious Emissions**

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-7.272	-45.283	-27.272	PASS
BT LE	МСН	-8.176	-45.587	-28.176	PASS
BT LE	HCH	-9.007	-44.674	-29.007	PASS

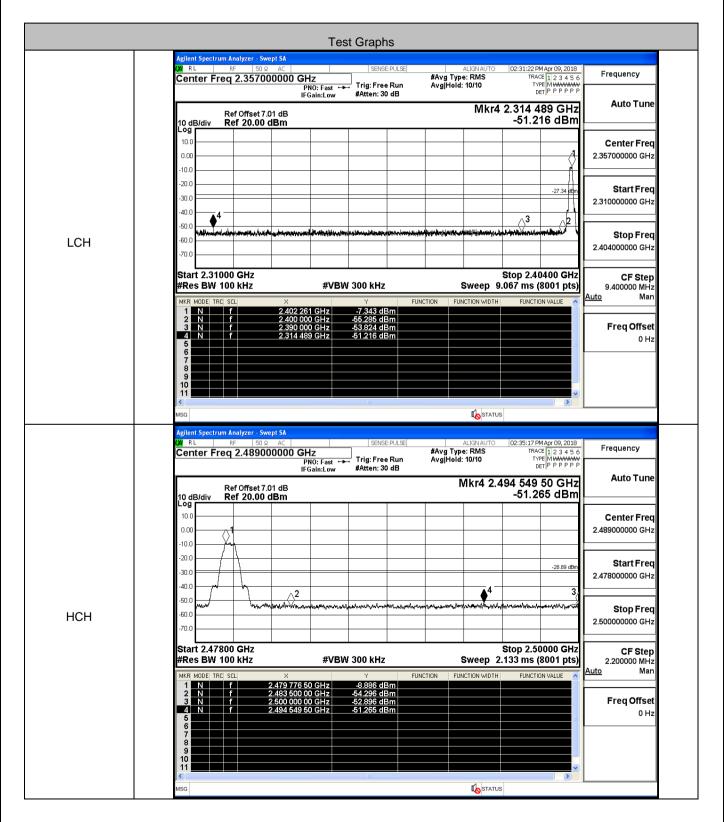






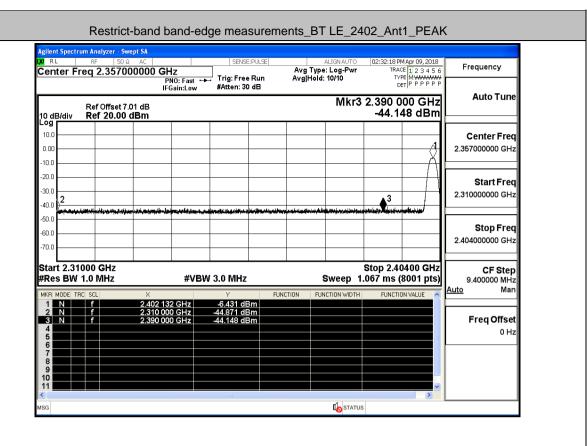
## **B.6 Band-edge for RF Conducted Emissions**

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-7.343	-51.216	-27.34	PASS
BT LE	HCH	-8.886	-51.265	-28.89	PASS

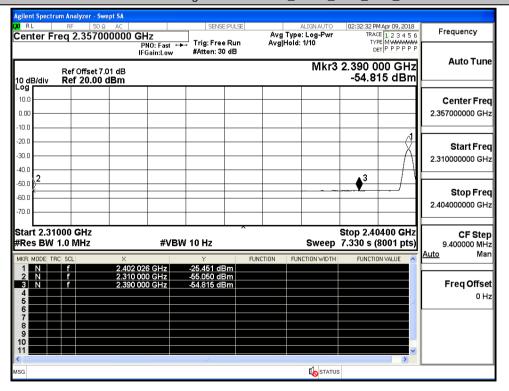


# **B.7 Restrict-band band-edge measurements**

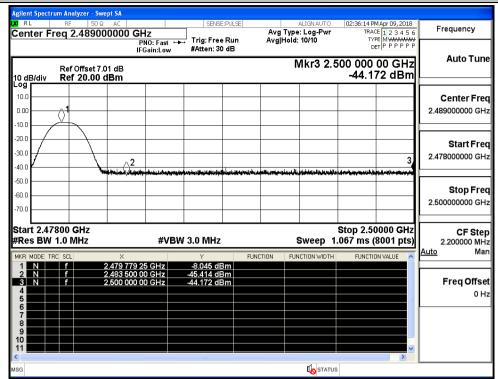
Test Mode	Test Chann el	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/ m]	Verdi
		Ant1	2310.0	-44.87	2.0	0	50.39	PEAK	74	PASS
	2402	Ant1	2310.0	-55.05	2.0	0	40.21	AV	54	PASS
		Ant1	2390.0	-44.15	2.0	0	51.11	PEAK	74	PASS
		Ant1	2390.0	-54.82	2.0	0	40.44	AV	54	PASS
BT LE		Ant1	2483.5	-45.41	2.0	0	49.84	PEAK	74	PASS
	2480	Ant1	2483.5	-54.57	2.0	0	40.69	AV	54	PASS
		Ant1	2500.0	-44.17	2.0	0	51.09	PEAK	74	PASS
		Ant1	2500.0	-54.40	2.0	0	40.86	AV	54	PASS



#### 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

