# Appendix A

# RF Test Data for BT V4.1 (LE) (Conducted Measurement)

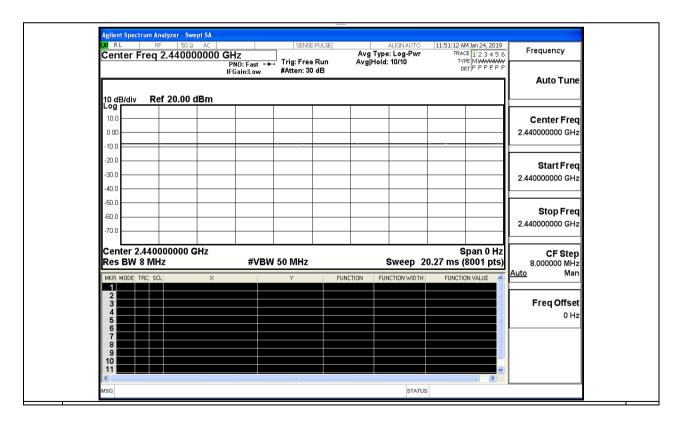
Product Name: ST008 Smart Tag
Trade Mark: SportIQ
Test Model: ST008

#### **Environmental Conditions**

Temperature:	24.3 ° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden.Zhuo

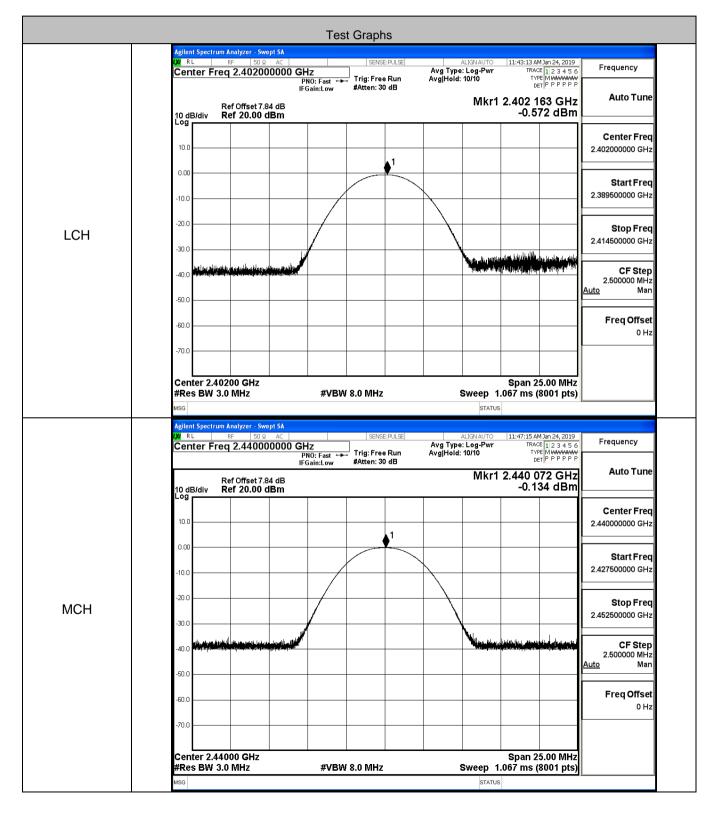
# **A.1 Duty Cycle**

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

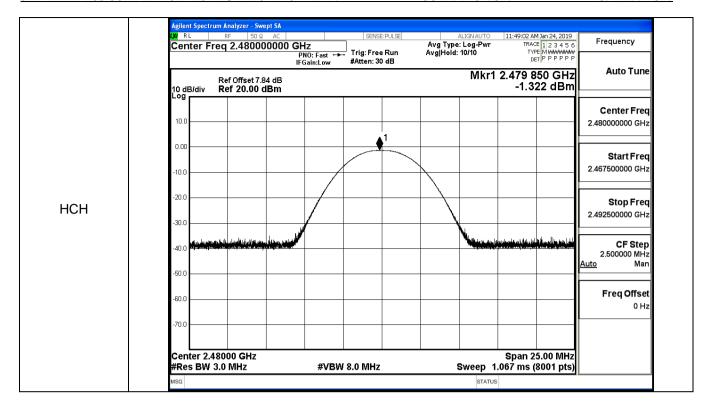


## **A.2 Maximum Conducted Peak Output Power**

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.572	30	PASS
BT LE	мсн	-0.134	30	PASS
BT LE	НСН	-1.322	30	PASS

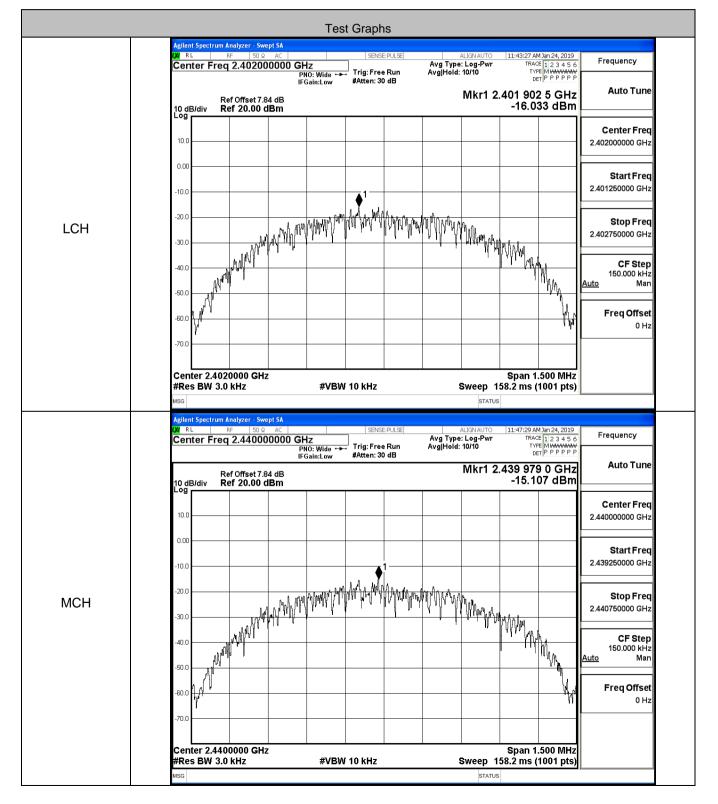


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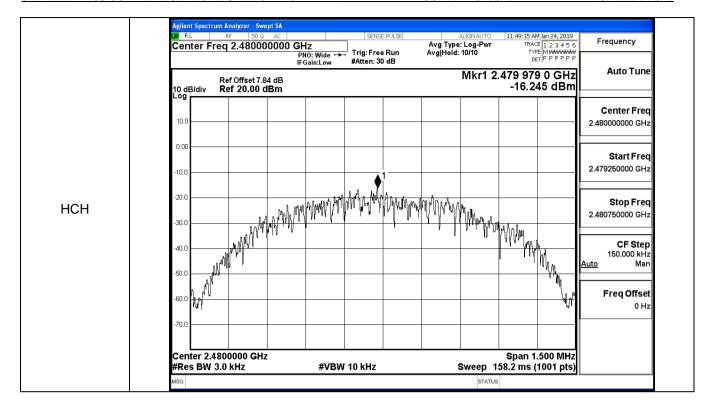


### **A.3 Maximum Power Spectral Density**

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.033	8	PASS
BT LE	MCH	-15.107	8	PASS
BT LE	HCH	-16.245	8	PASS

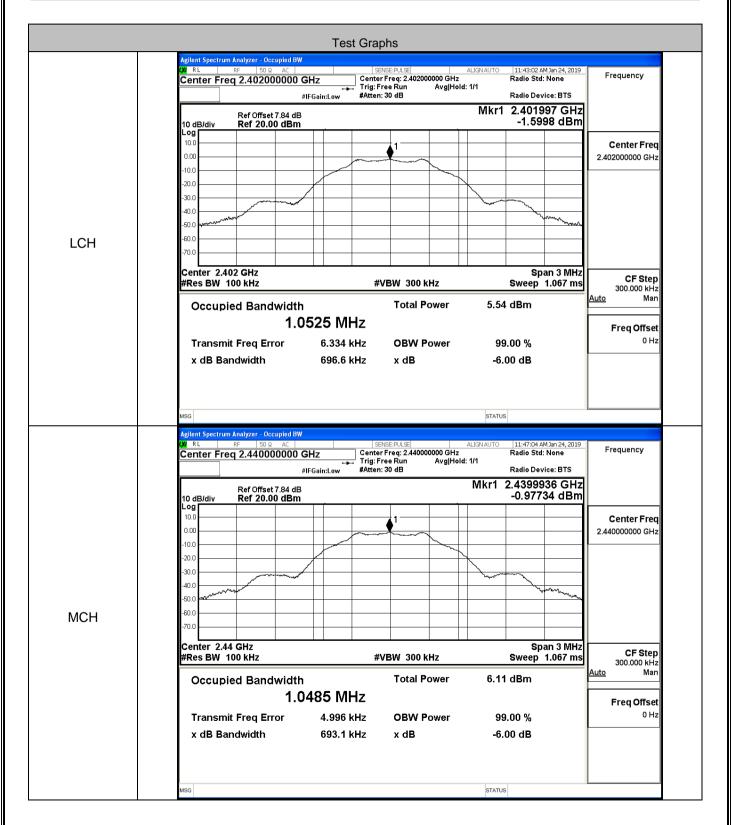


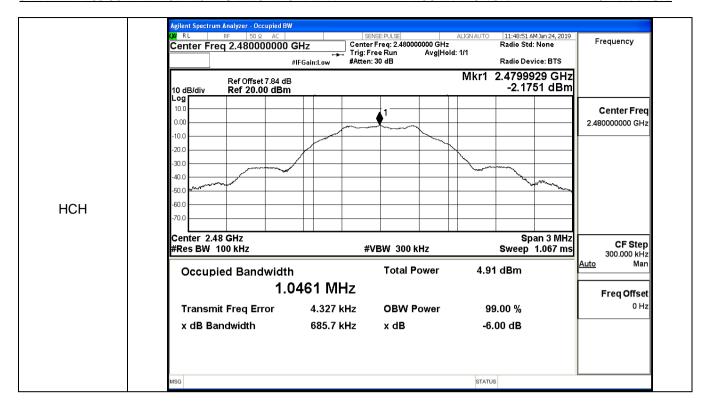
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#### A.4 6dB Bandwidth

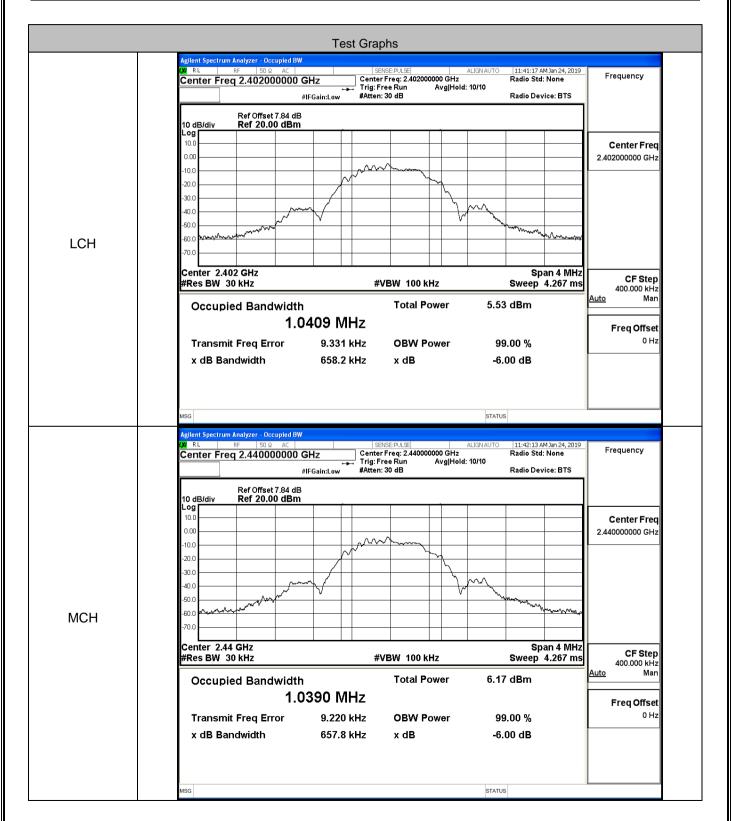
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6966	≥0.5	PASS
BT LE	MCH	0.6931	≥0.5	PASS
BT LE	HCH	0.6857	≥0.5	PASS





# A.5 Occupied Bandwidth

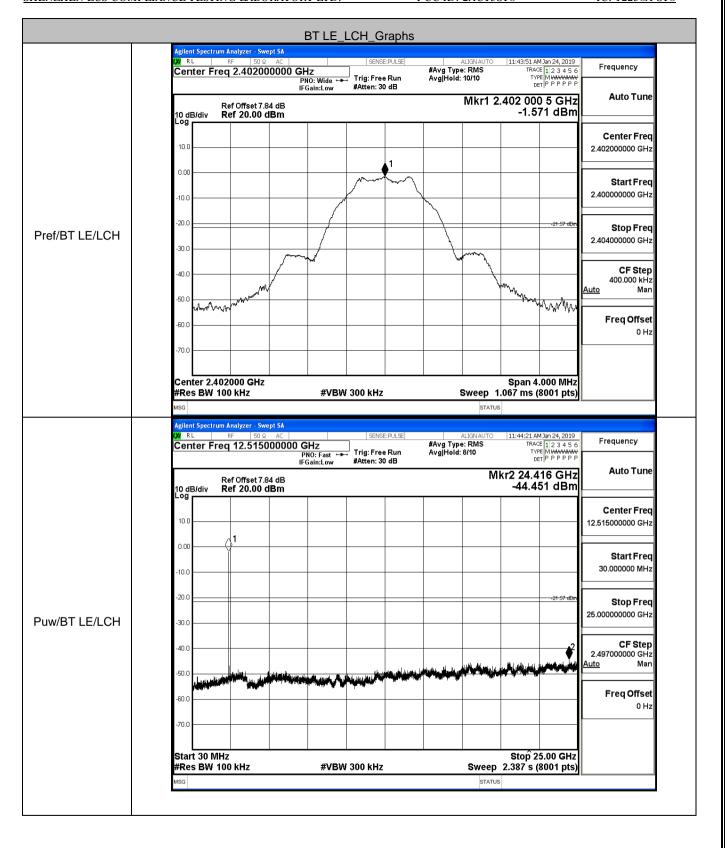
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0409	No Limit	PASS
BT LE	MCH	1.0390	No Limit	PASS
BT LE	HCH	1.0363	No Limit	PASS

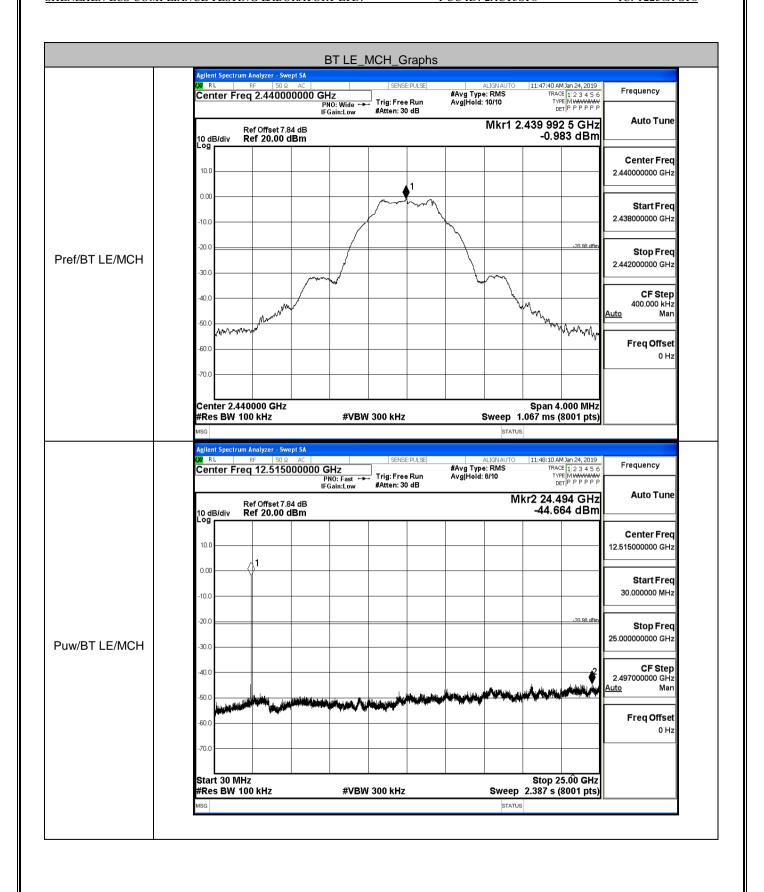


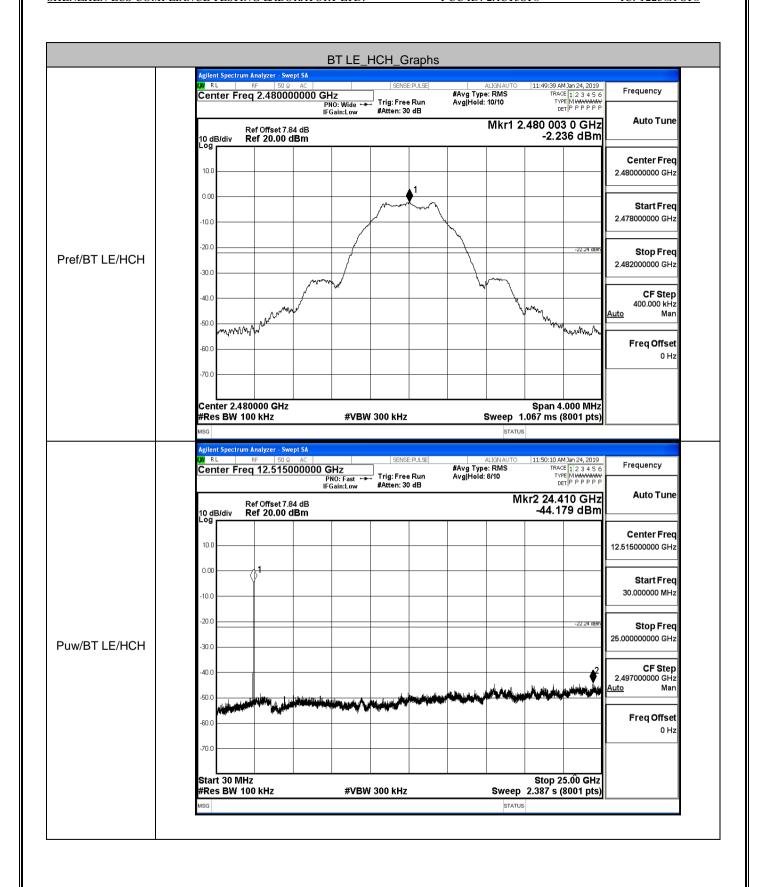
STATUS

# A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.571	-44.451	-21.571	PASS
BT LE	MCH	-0.983	-44.664	-20.983	PASS
BT LE	HCH	-2.236	-44.179	-22.236	PASS

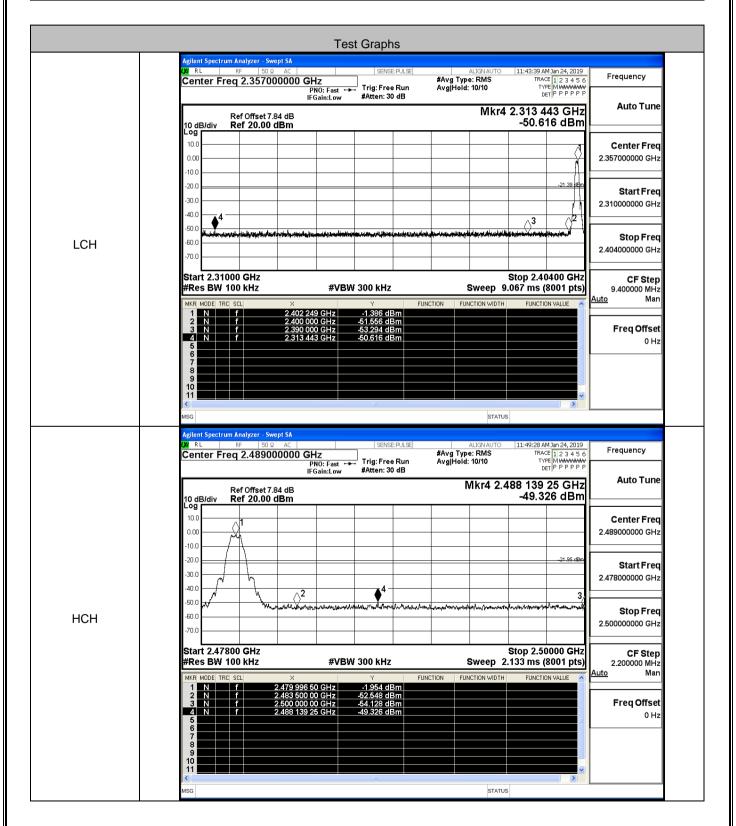






## A.7 Band-edge for RF Conducted Emissions

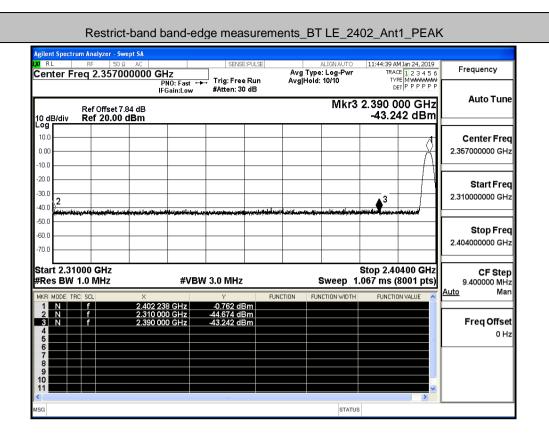
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.386	-50.616	-21.39	PASS
BT LE	HCH	-1.954	-49.326	-21.95	PASS



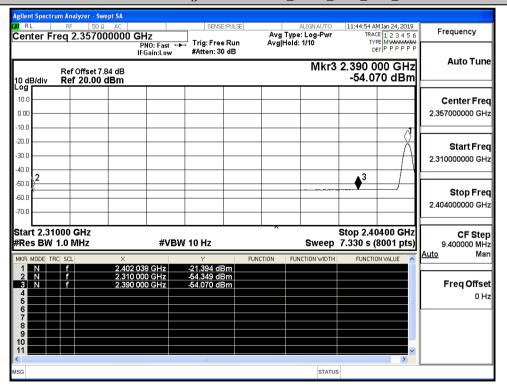
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# A.8 Restrict-band band-edge measurements

Test Mode	Test Chann el	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/ m]	Verdi
		Ant1	2310.0	-44.67	2.0	0	52.58	PEAK	74	PASS
	2402	Ant1	2310.0	-54.35	2.0	0	42.91	AV	54	PASS
		Ant1	2390.0	-43.24	2.0	0	54.02	PEAK	74	PASS
		Ant1	2390.0	-54.07	2.0	0	43.19	AV	54	PASS
BT LE		Ant1	2483.5	-43.22	2.0	0	54.04	PEAK	74	PASS
		Ant1	2483.5	-53.86	2.0	0	43.40	AV	54	PASS
	2480	Ant1	2500.0	-44.38	2.0	0	52.88	PEAK	74	PASS
		Ant1	2500.0	-53.74	2.0	0	43.51	AV	54	PASS

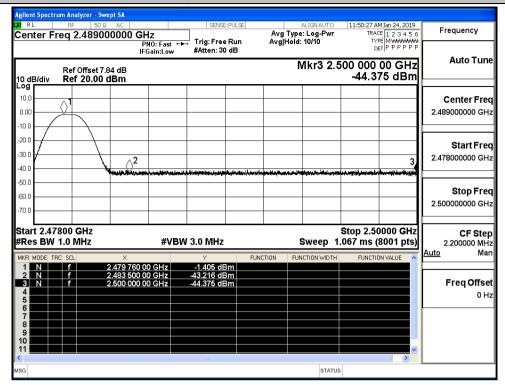


#### Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_AV



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



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

