# **Appendix B**

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

Product Name: Sunapee Bluetooth® Outdoor Speaker

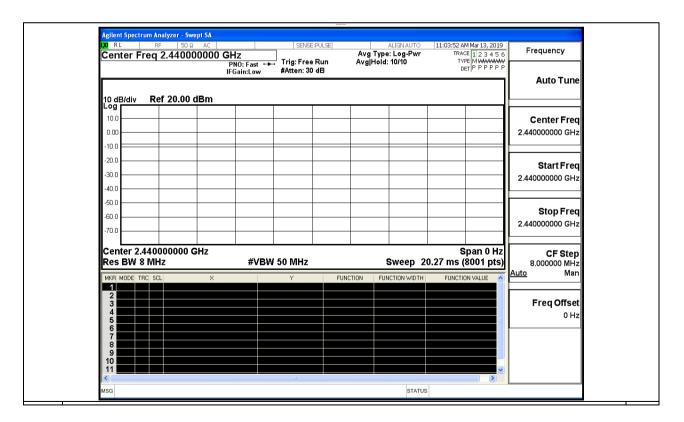
Trade Mark: Gemline Test Model: 100240-001B

#### **Environmental Conditions**

Temperature:	22.4 ° C				
Relative Humidity:	53.4%				
ATM Pressure:	100.0 kPa				
Test Engineer:	WANGCHUANG				
Supervised by:	Jayden.Zhuo				

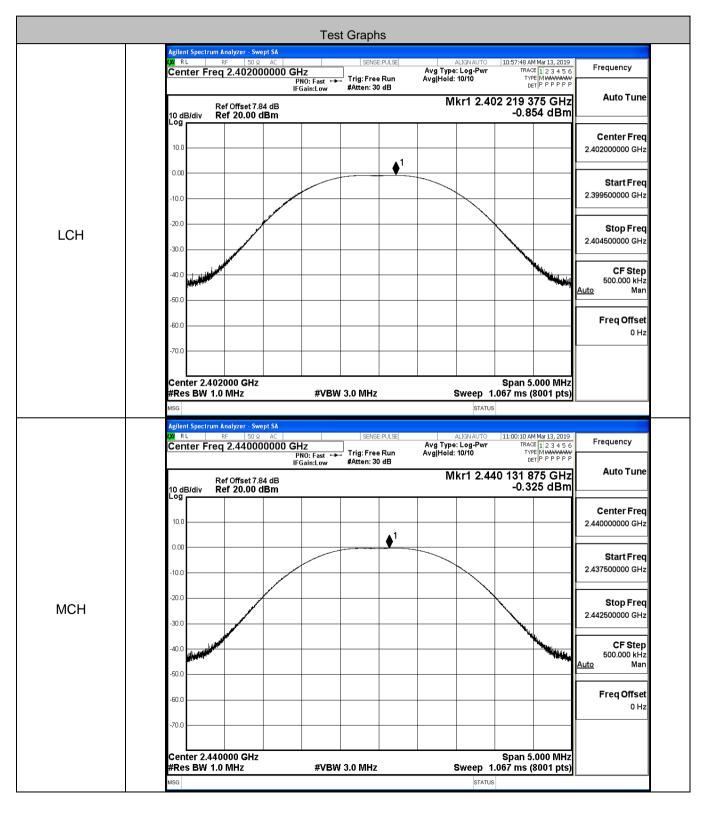
## **B.1 Duty Cycle**

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

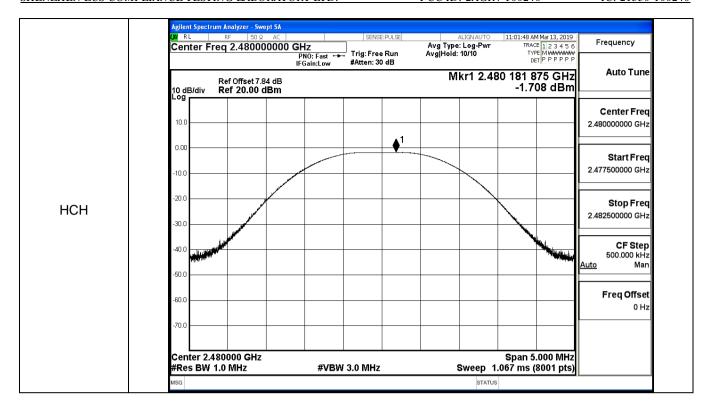


## **B.2 Maximum Conducted Peak Output Power**

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.854	30	PASS
BT LE	MCH	-0.325	30	PASS
BT LE	HCH	-1.708	30	PASS

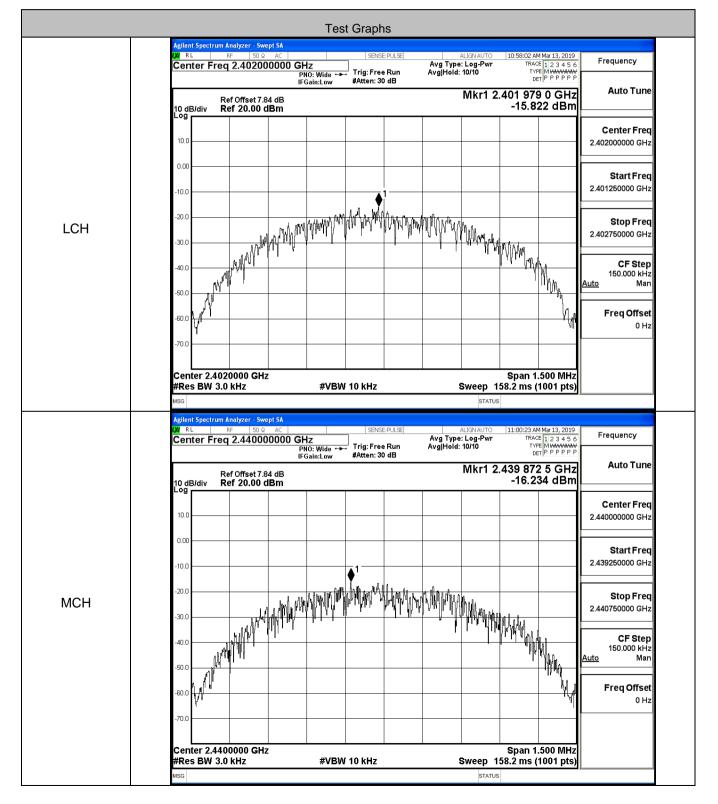


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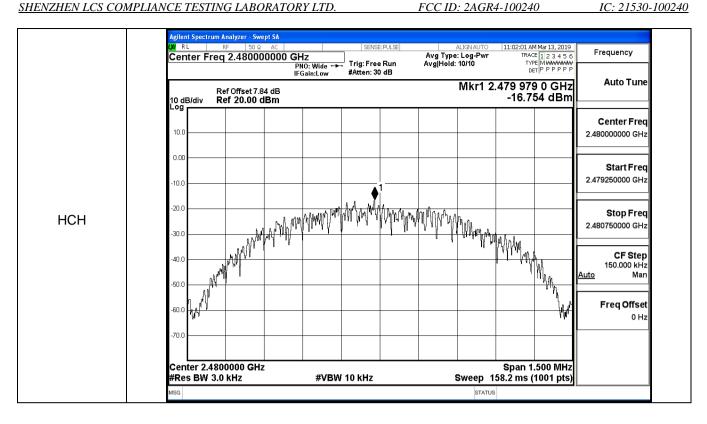


### **B.3 Maximum Power Spectral Density**

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.822	8	PASS
BT LE	MCH	-16.234	8	PASS
BT LE	HCH	-16.754	8	PASS

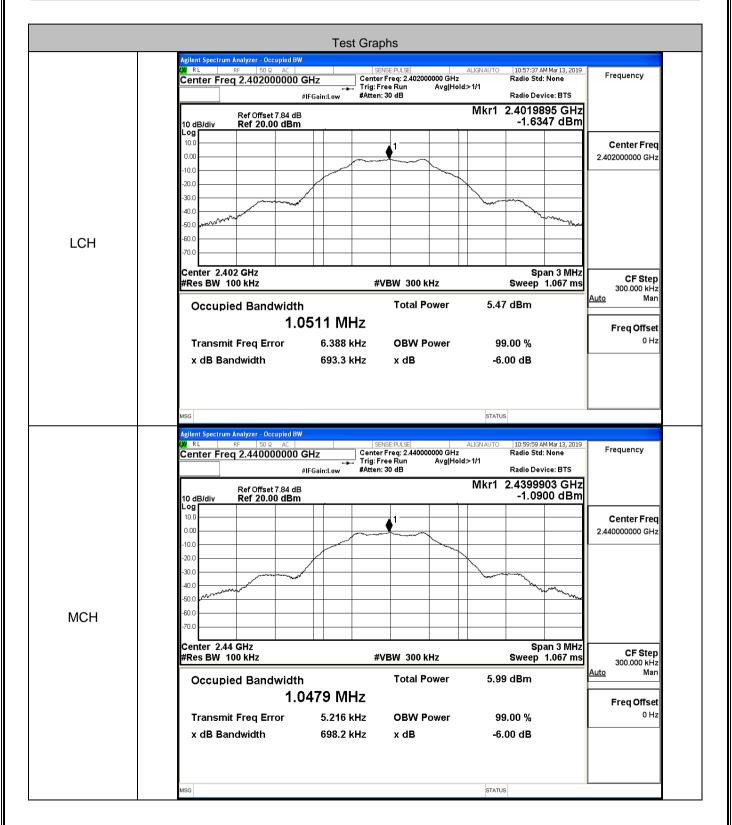


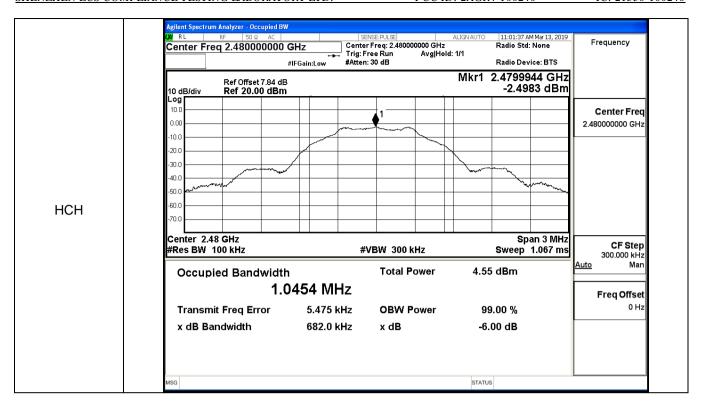
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#### **B.4 6dB Bandwidth**

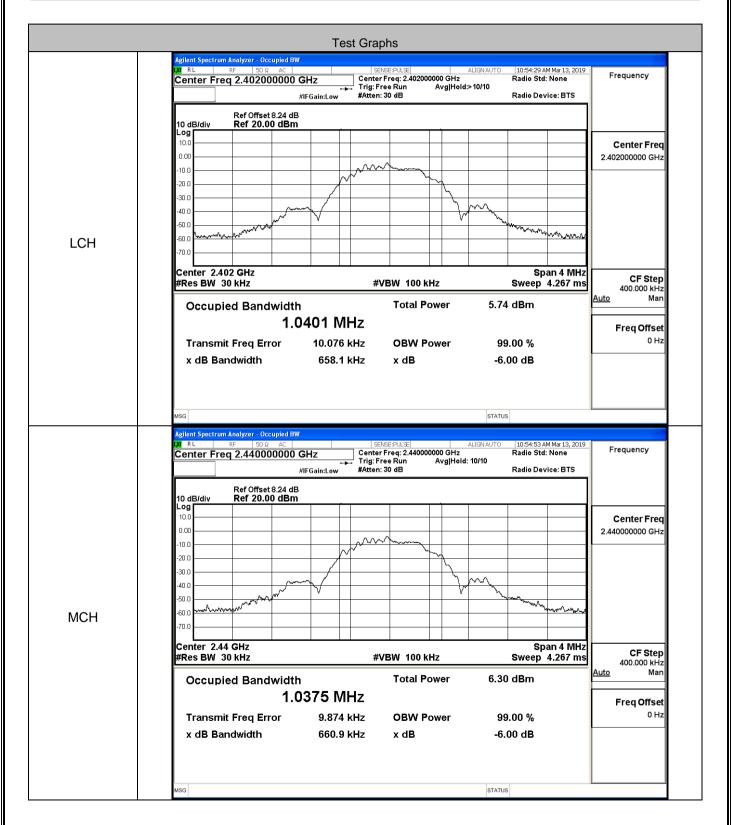
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6933	≥0.5	PASS
BT LE	MCH	0.6982	≥0.5	PASS
BT LE	HCH	0.6820	≥0.5	PASS





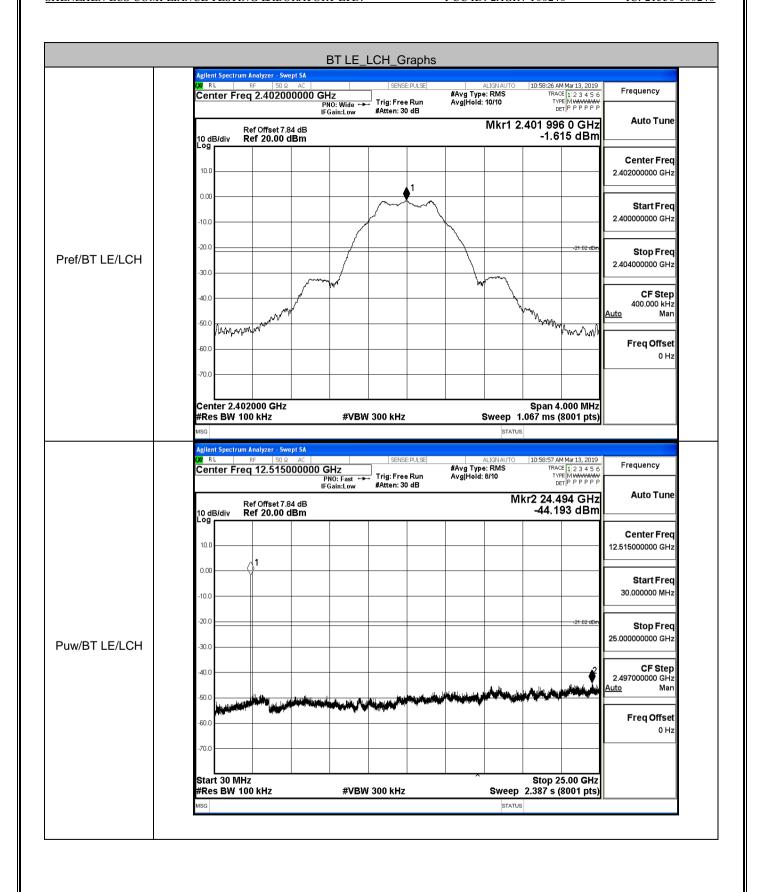
### **B.5 99% Occupied Bandwidth**

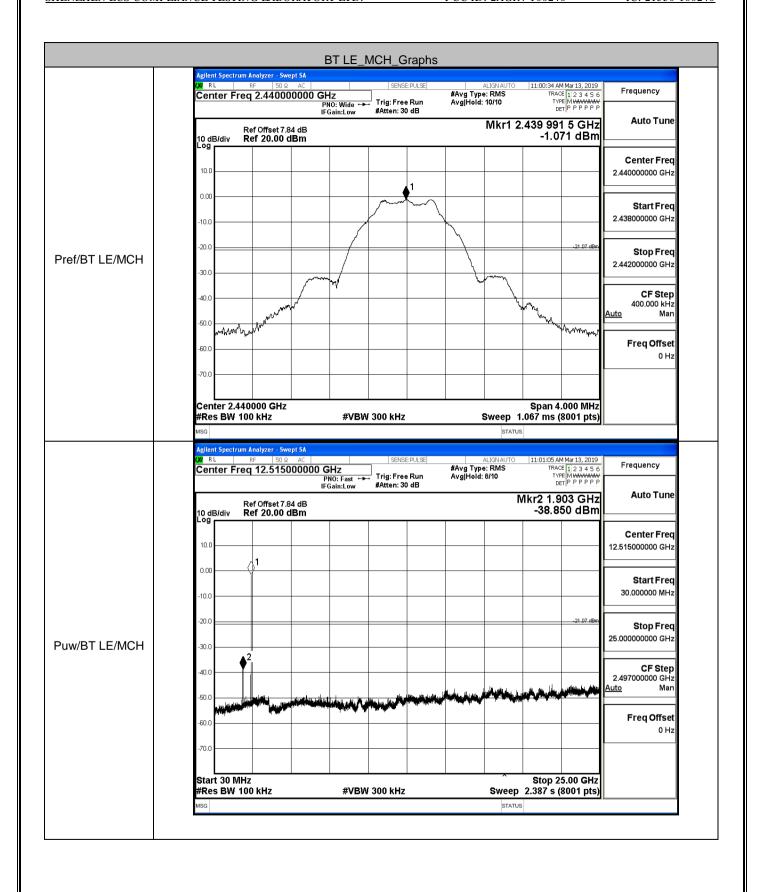
Mode	Channel	99% Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0401	No Limit	PASS
BT LE	MCH	1.0375	No Limit	PASS
BT LE	HCH	1.0350	No Limit	PASS

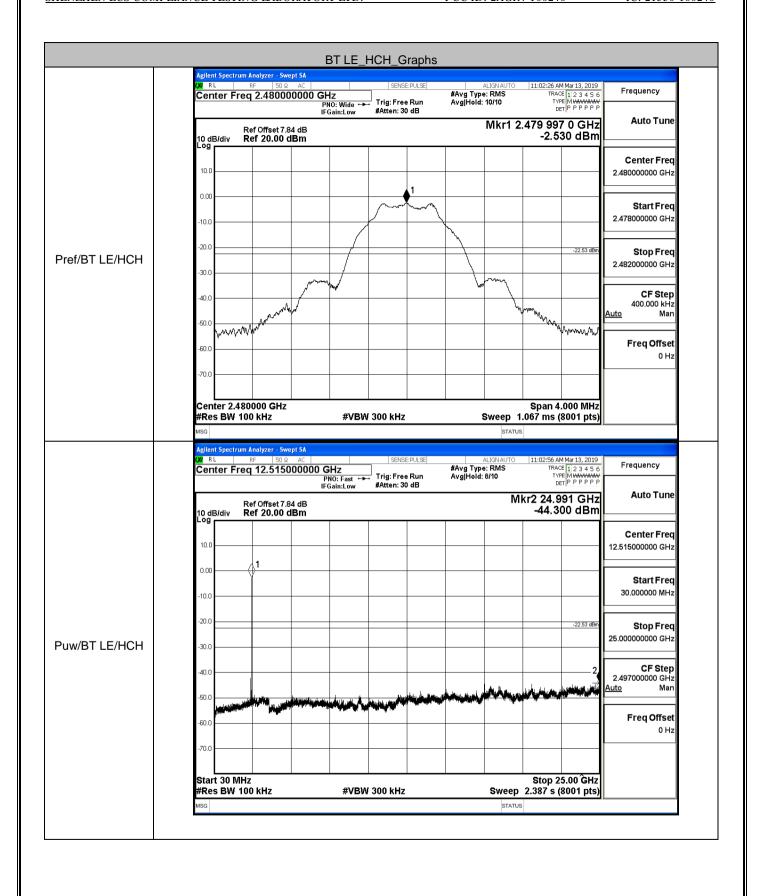


# **B.6 RF Conducted Spurious Emissions**

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.615	-44.193	-21.615	PASS
BT LE	МСН	-1.071	-38.850	-21.071	PASS
BT LE	НСН	-2.53	-44.300	-22.530	PASS

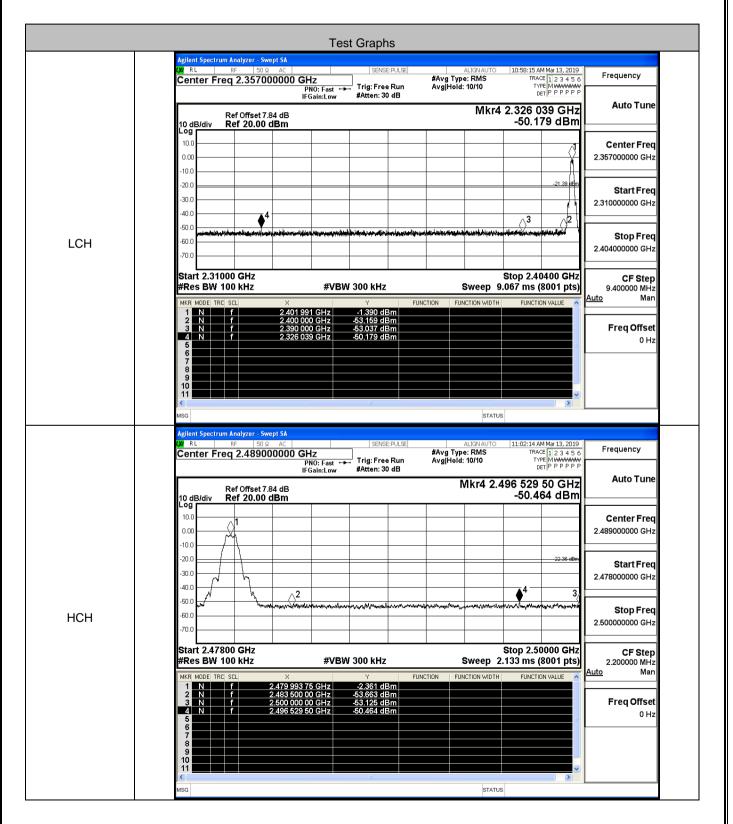






## **B.7 Band-edge for RF Conducted Emissions**

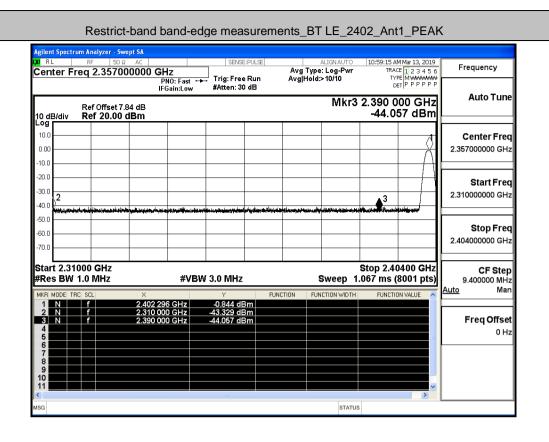
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.390	-50.179	-21.39	PASS
BT LE	HCH	-2.361	-50.464	-22.36	PASS



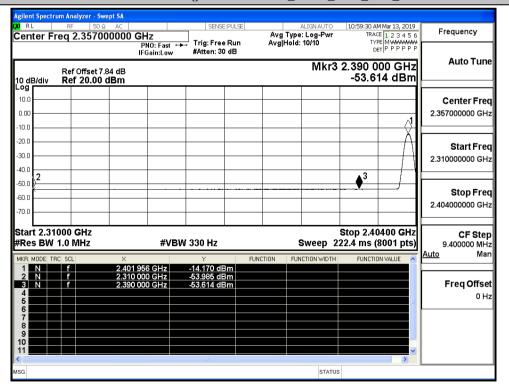
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# **B.8 Restrict-band band-edge measurements**

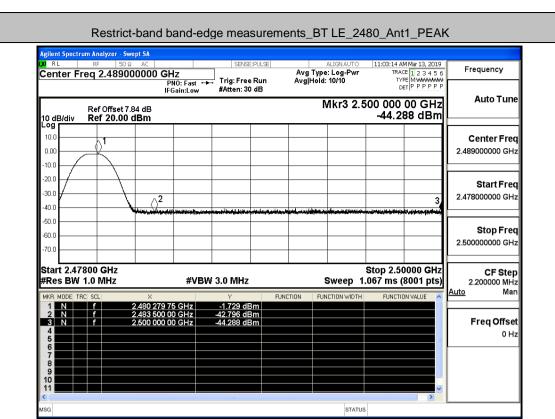
Test Mode	Test Chann el	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/ m]	Verdi
		Ant1	2310.0	-43.33	2.0	0	51.93	PEAK	74	PASS
	2402	Ant1	2310.0	-53.99	2.0	0	41.27	AV	54	PASS
		Ant1	2390.0	-44.06	2.0	0	51.20	PEAK	74	PASS
		Ant1	2390.0	-53.61	2.0	0	41.64	AV	54	PASS
BTLE	2480	Ant1	2483.5	-42.80	2.0	0	52.46	PEAK	74	PASS
		Ant1	2483.5	-53.47	2.0	0	41.79	AV	54	PASS
		Ant1	2500.0	-44.29	2.0	0	50.97	PEAK	74	PASS
		Ant1	2500.0	-53.38	2.0	0	41.88	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\_AV

