

Appendix B

RF Test Data for BT V4.2(Conducted Measurement)

Product Name: Lantern Speaker

Trade Mark: N/A

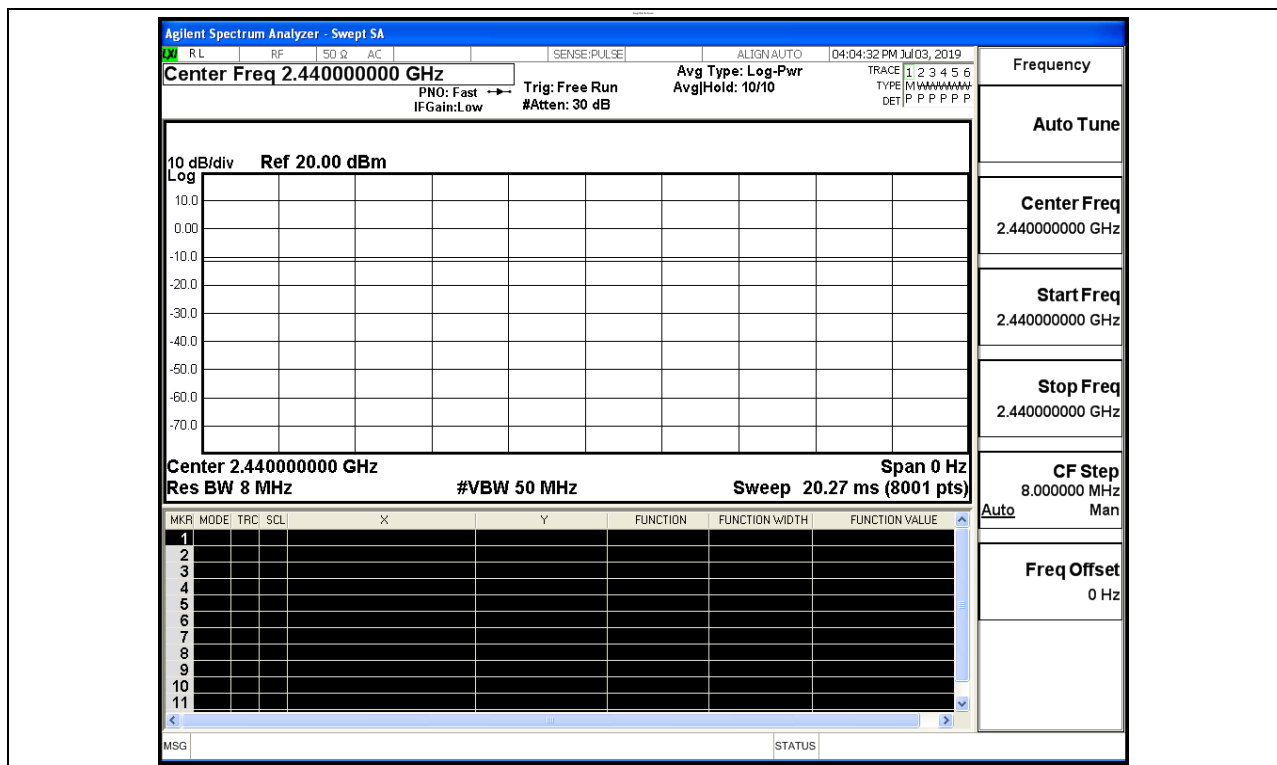
Test Model: JWT2811L-2

Environmental Conditions

Temperature:	24.1°C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	WANGCHUANG
Supervised by:	TOM.LIU

B.1 Duty Cycle

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

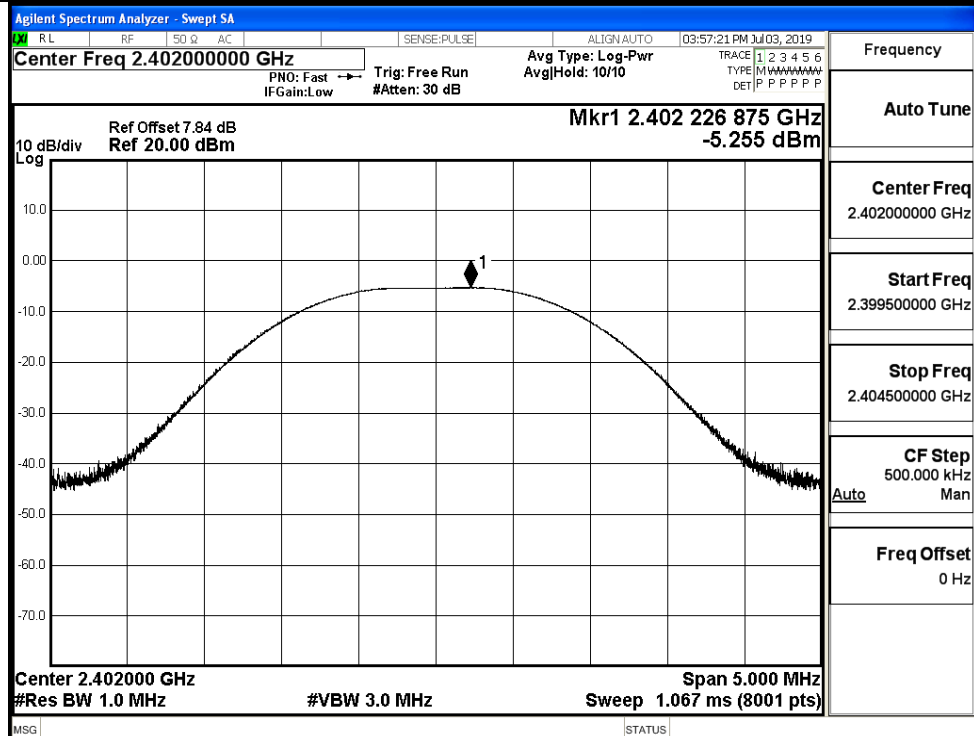


B.2 Maximum Conducted Peak Output Power

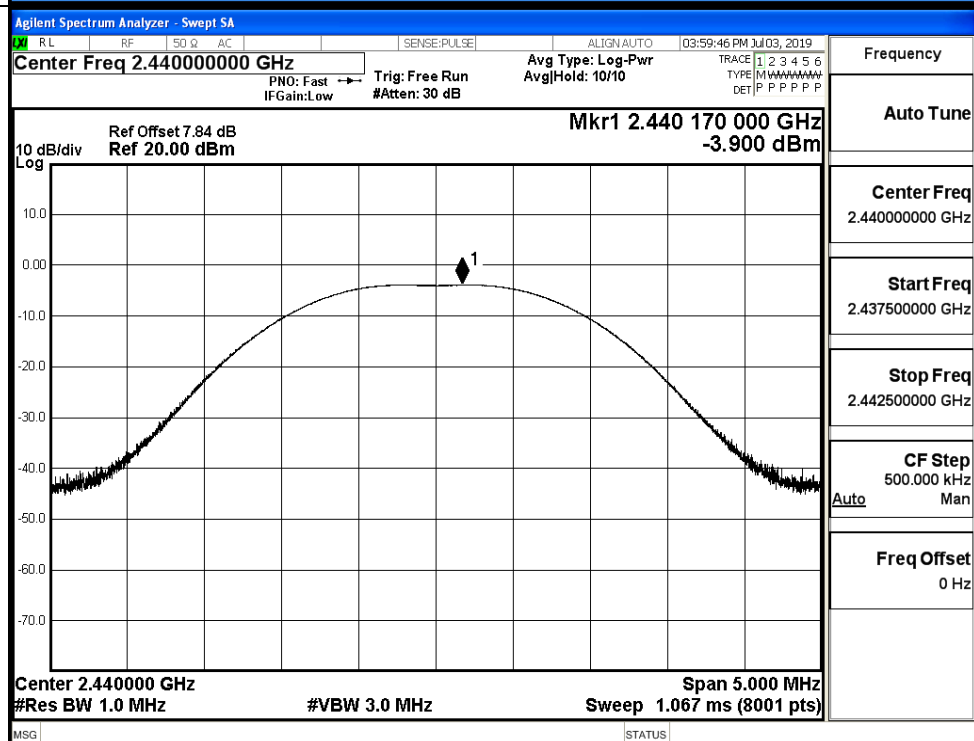
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-5.255	30	PASS
BT LE	MCH	-3.9	30	PASS
BT LE	HCH	-4.418	30	PASS

Test Graphs

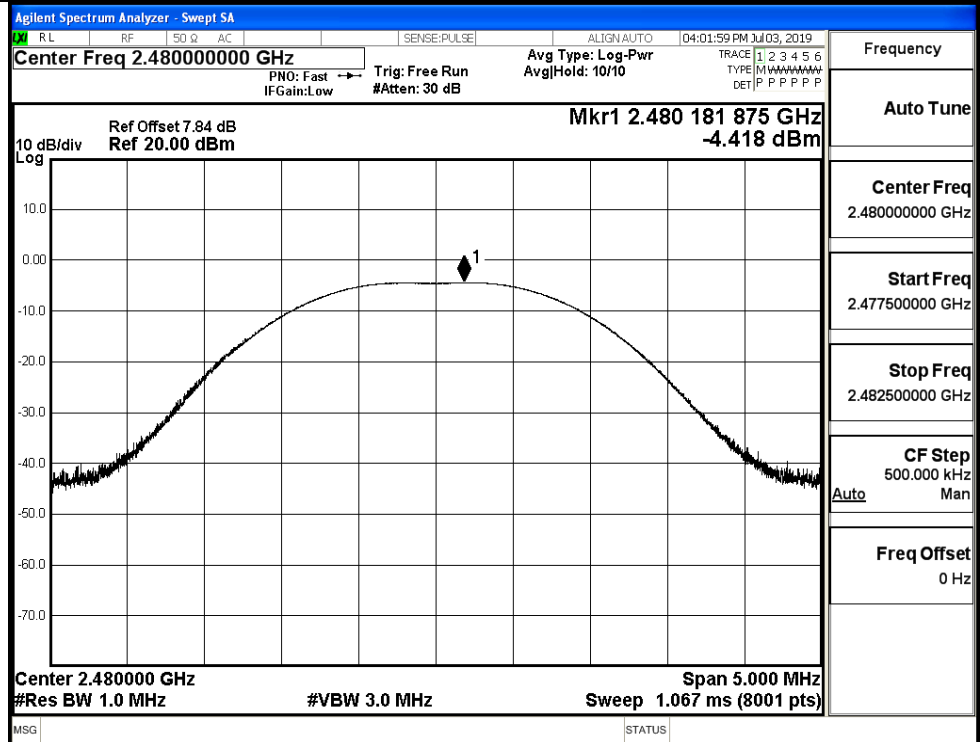
LCH



MCH



HCH

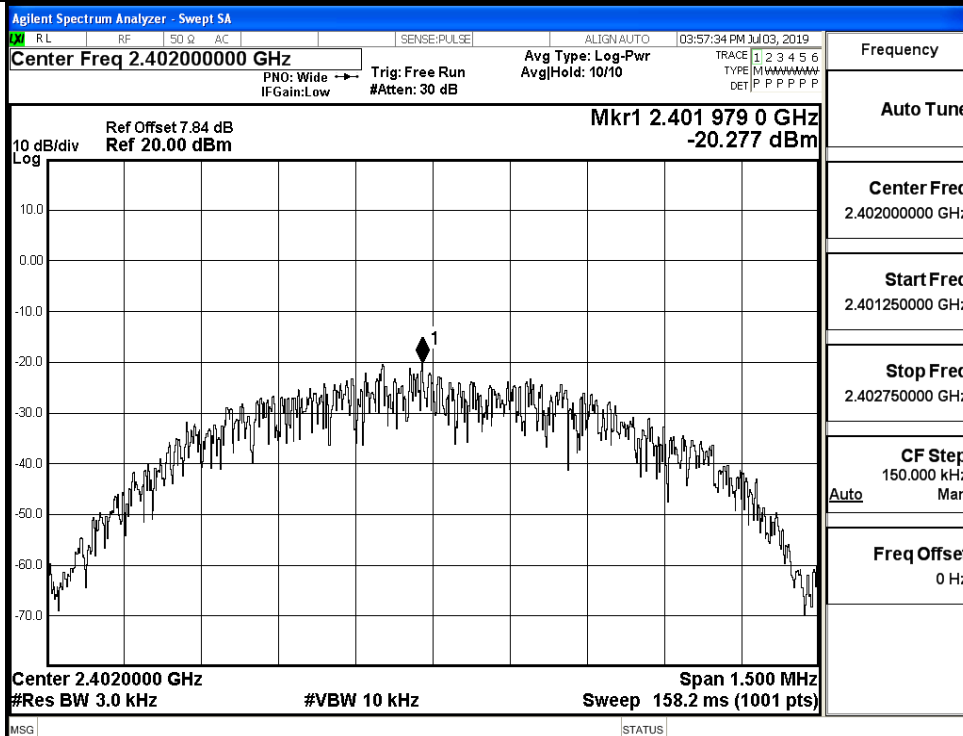


B.3 Maximum Power Spectral Density

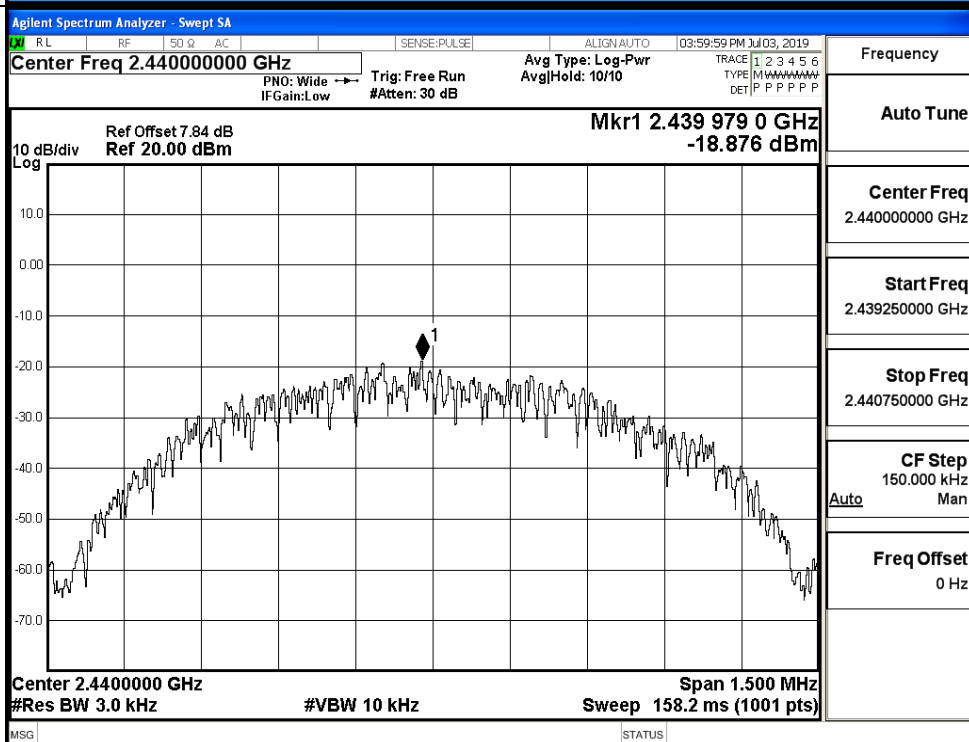
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-20.277	8	PASS
BT LE	MCH	-18.876	8	PASS
BT LE	HCH	-19.425	8	PASS

Test Graphs

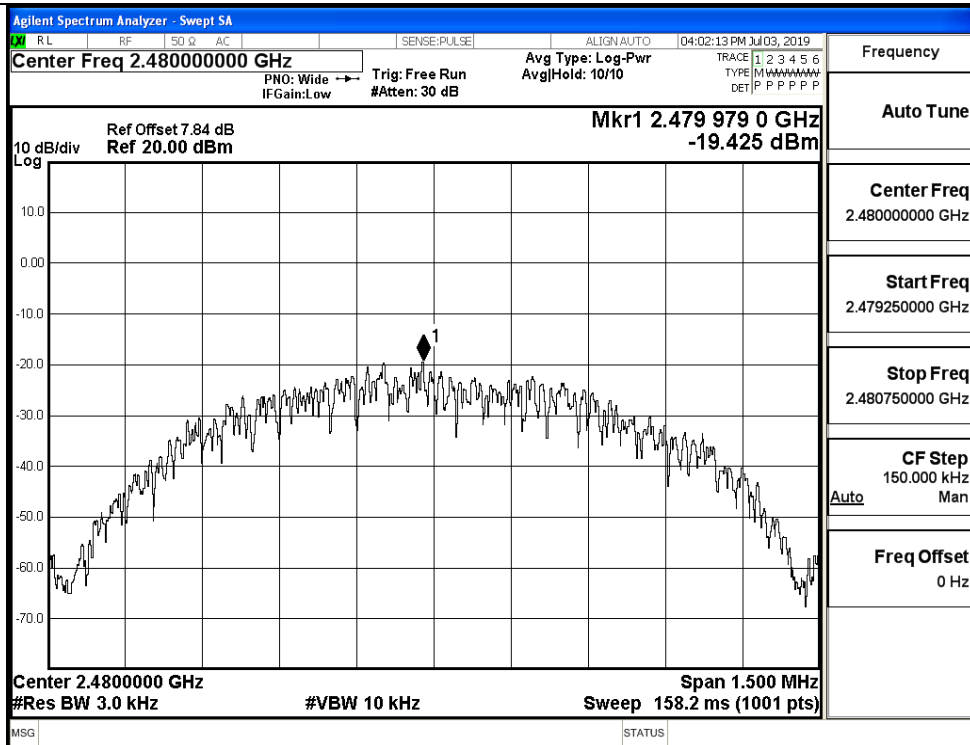
LCH



MCH



HCH

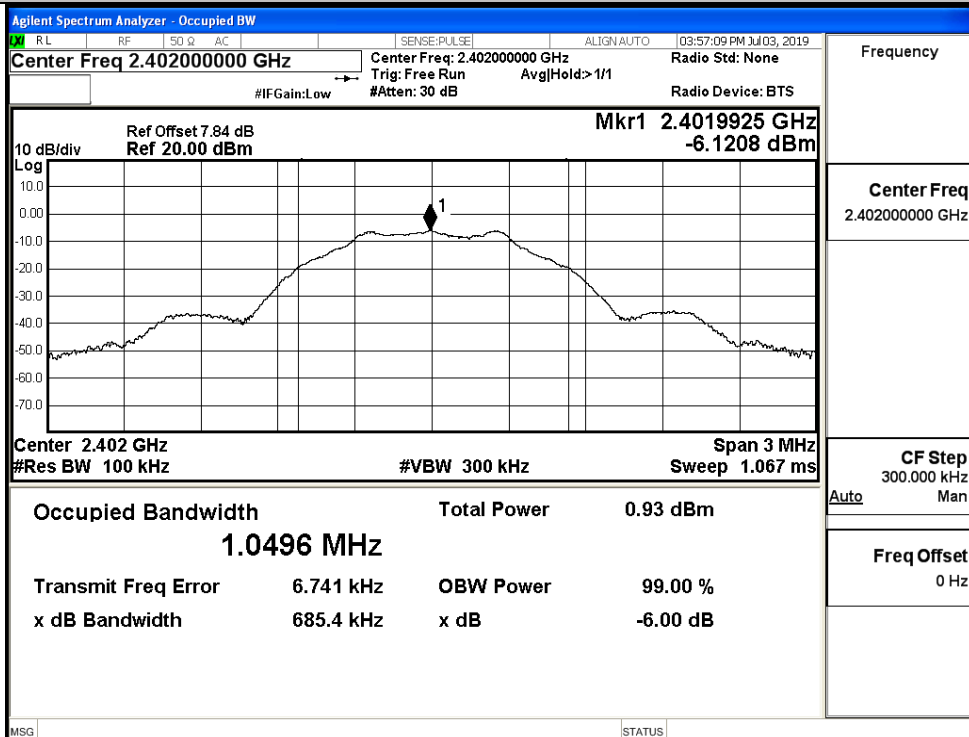


B.4 6dB Bandwidth

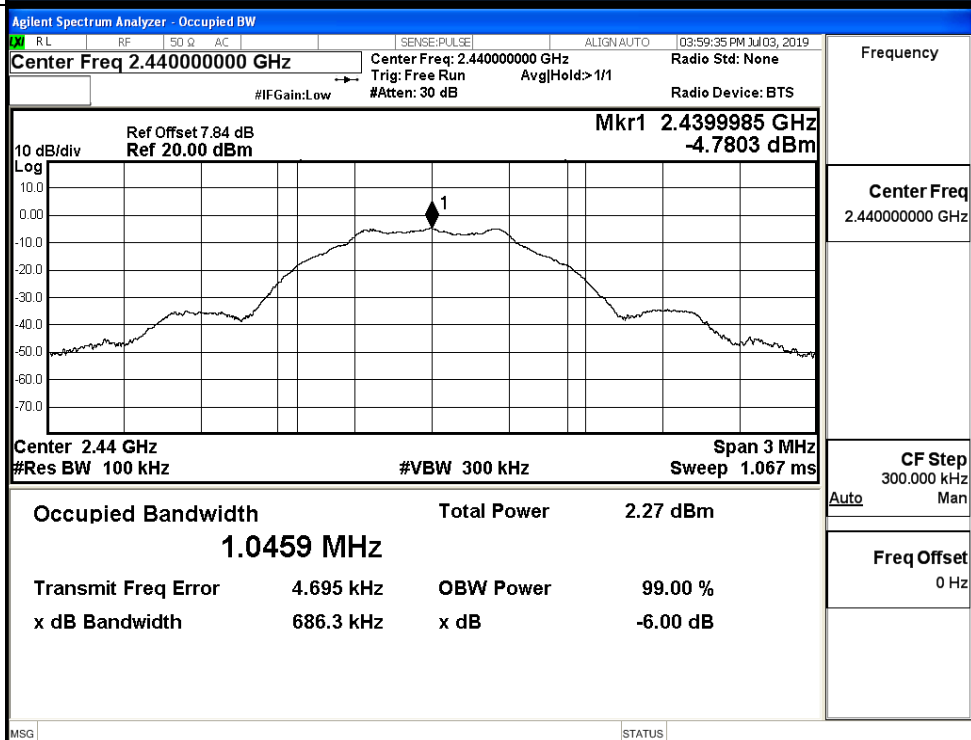
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6854	≥ 0.5	PASS
BT LE	MCH	0.6863	≥ 0.5	PASS
BT LE	HCH	0.6777	≥ 0.5	PASS

Test Graphs

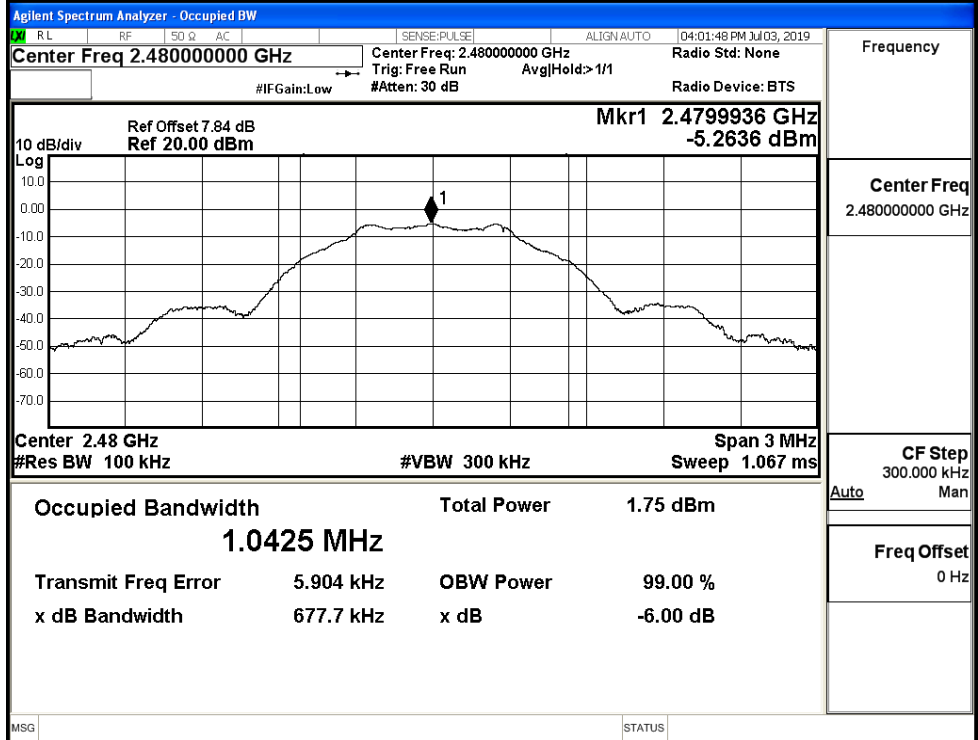
LCH



MCH



HCH

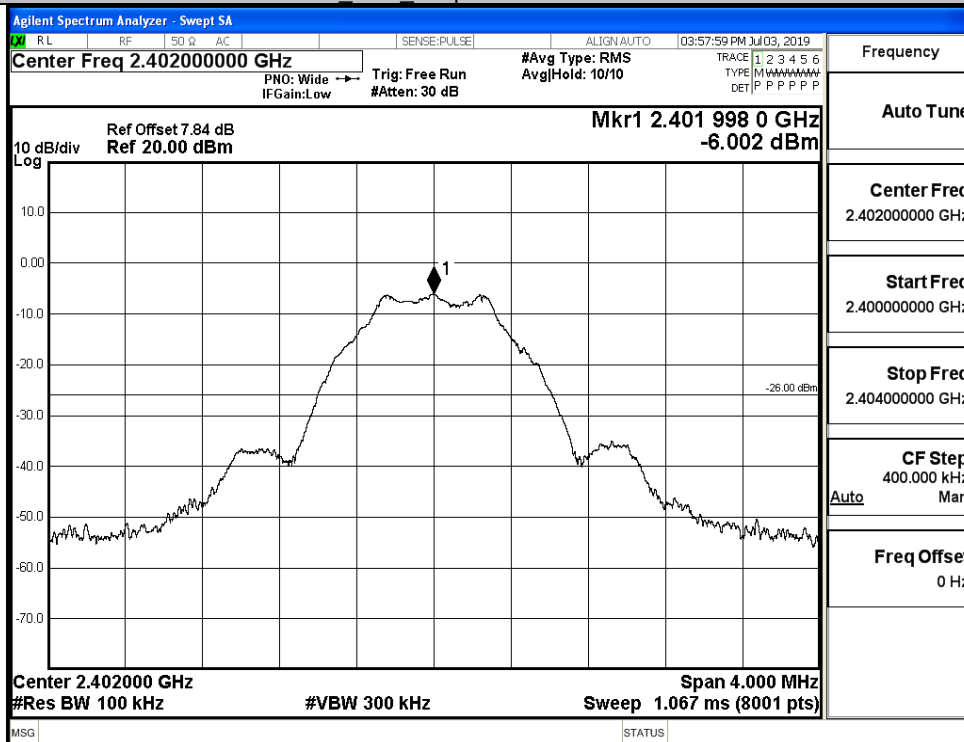


B.5 RF Conducted Spurious Emissions

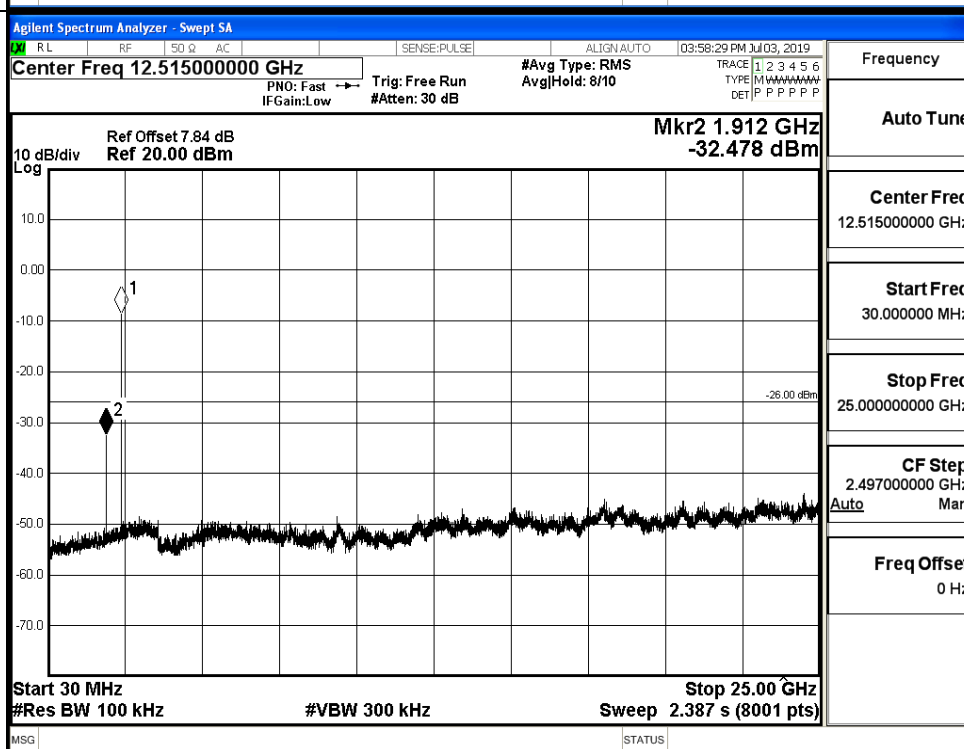
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-6.002	-32.478	-26.002	PASS
BT LE	MCH	-4.621	-44.292	-24.621	PASS
BT LE	HCH	-5.204	-44.543	-25.204	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

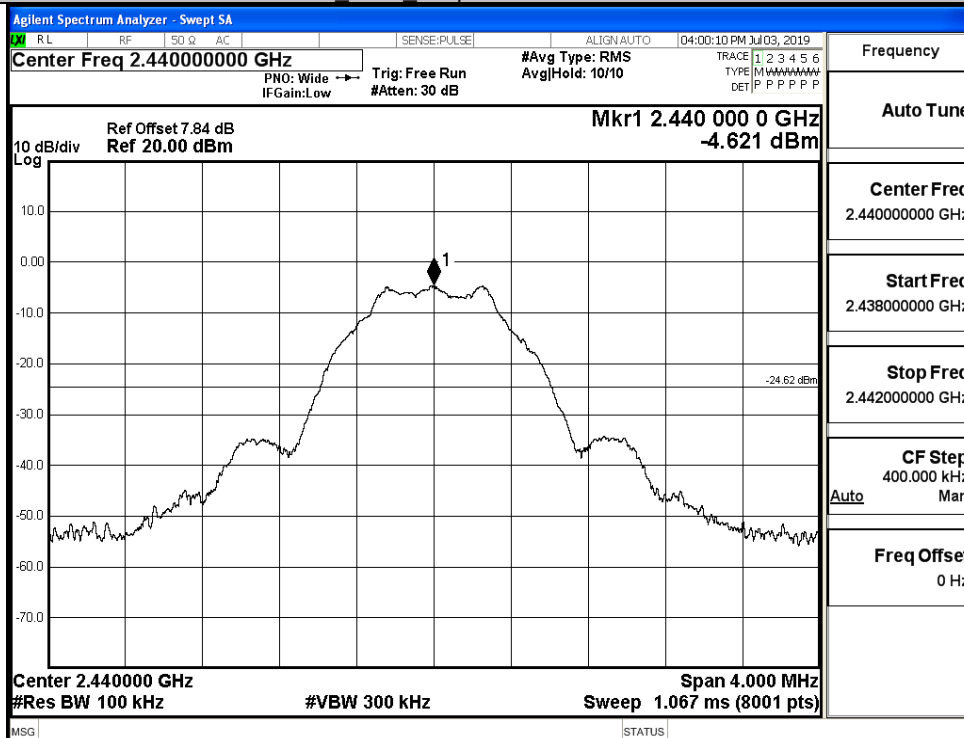


Puw/BT LE/LCH

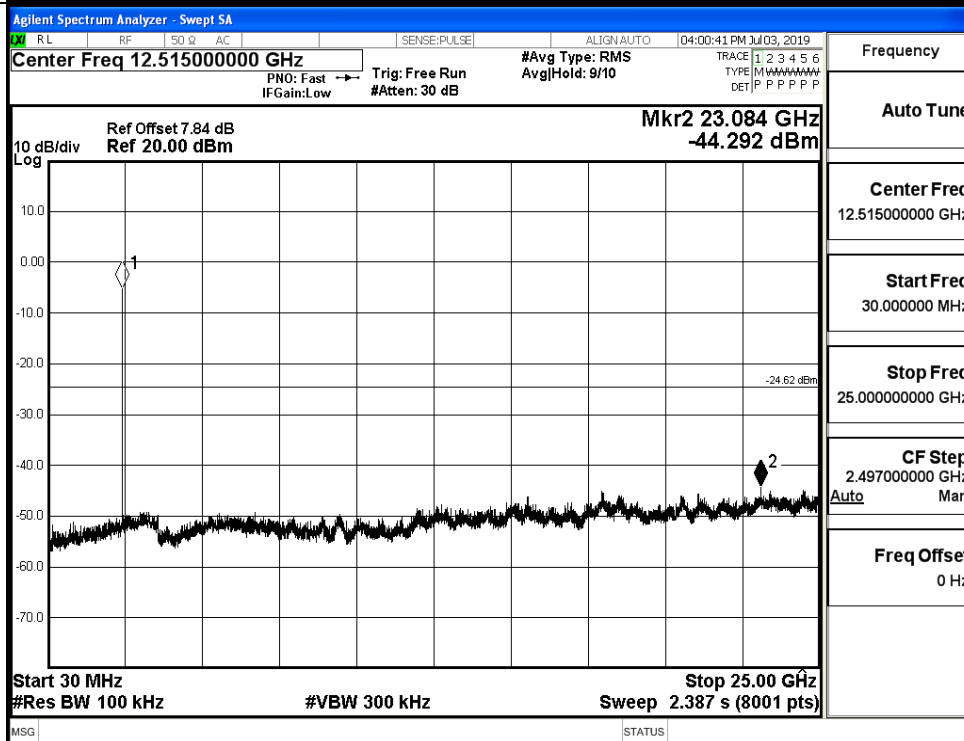


BT LE MCH Graphs

Pref/BT LE/MCH

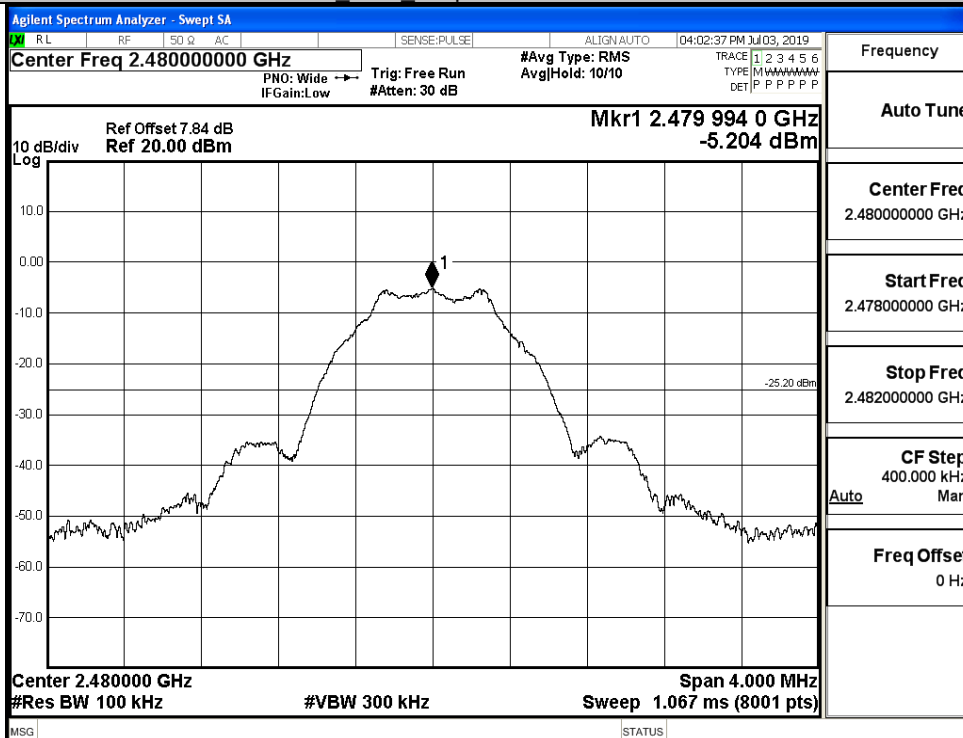


Puw/BT LE/MCH

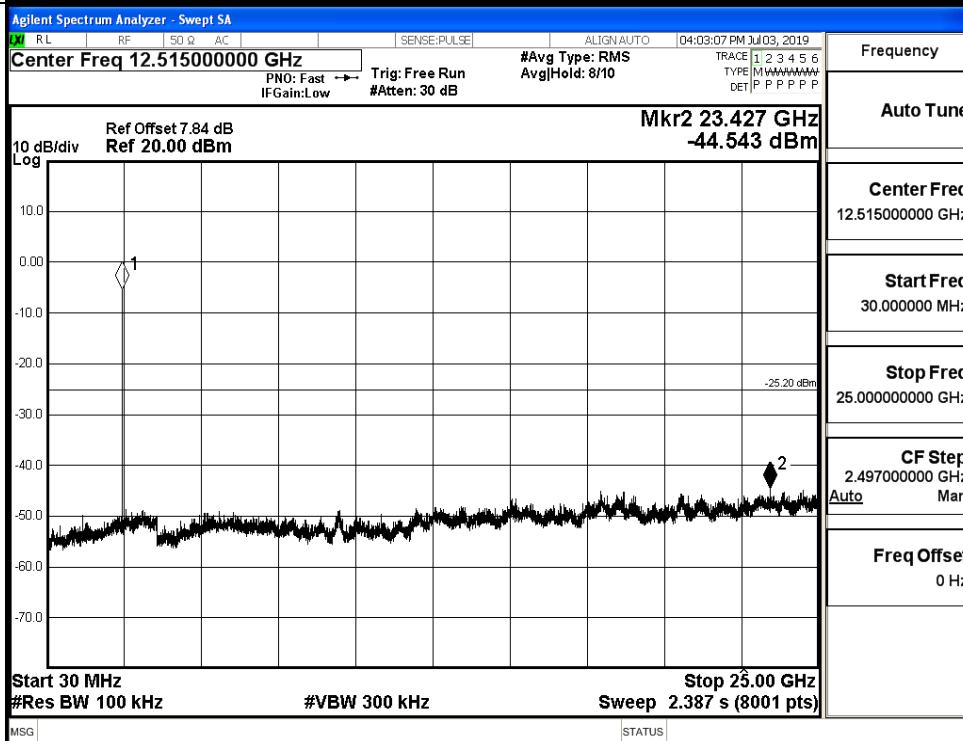


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

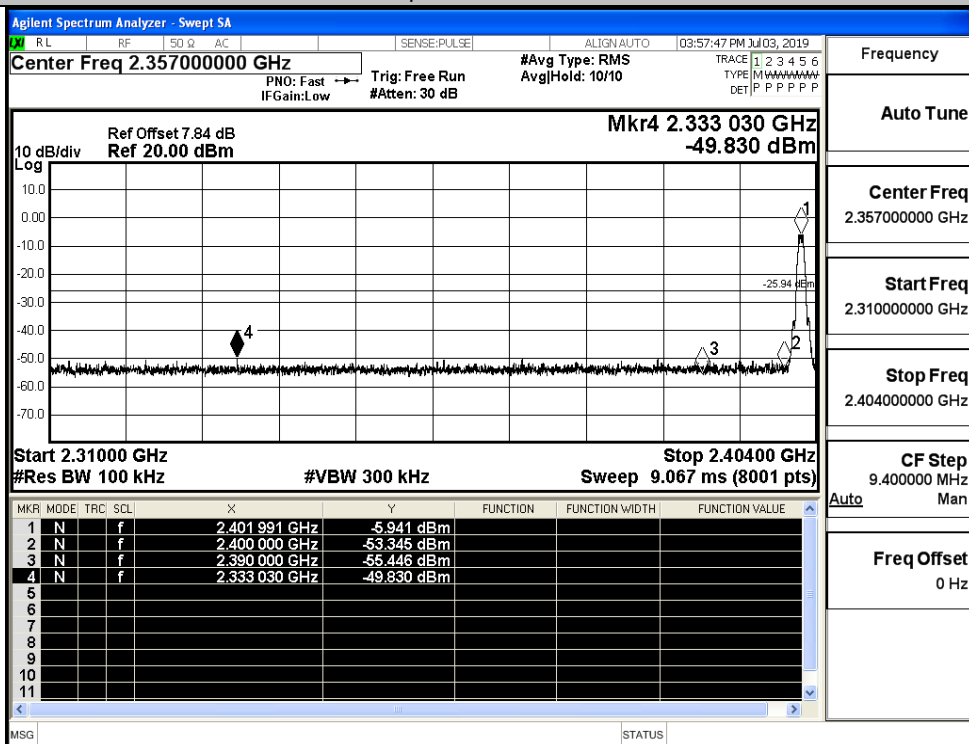


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-5.941	-49.830	-25.94	PASS
BT LE	HCH	-4.981	-49.833	-24.98	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

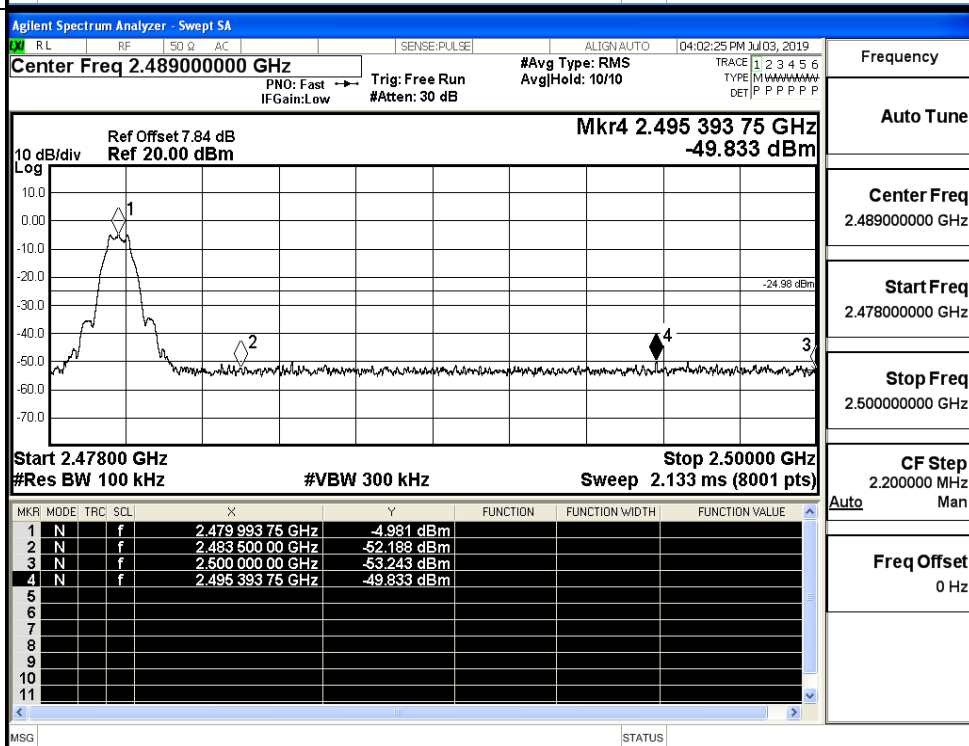
9.400000 MHz

Auto Man

Freq Offset

0 Hz

HCH



Frequency

Auto Tune

Center Freq

2.489000000 GHz

Start Freq

2.478000000 GHz

Stop Freq

2.500000000 GHz

CF Step

2.200000 MHz

Auto Man

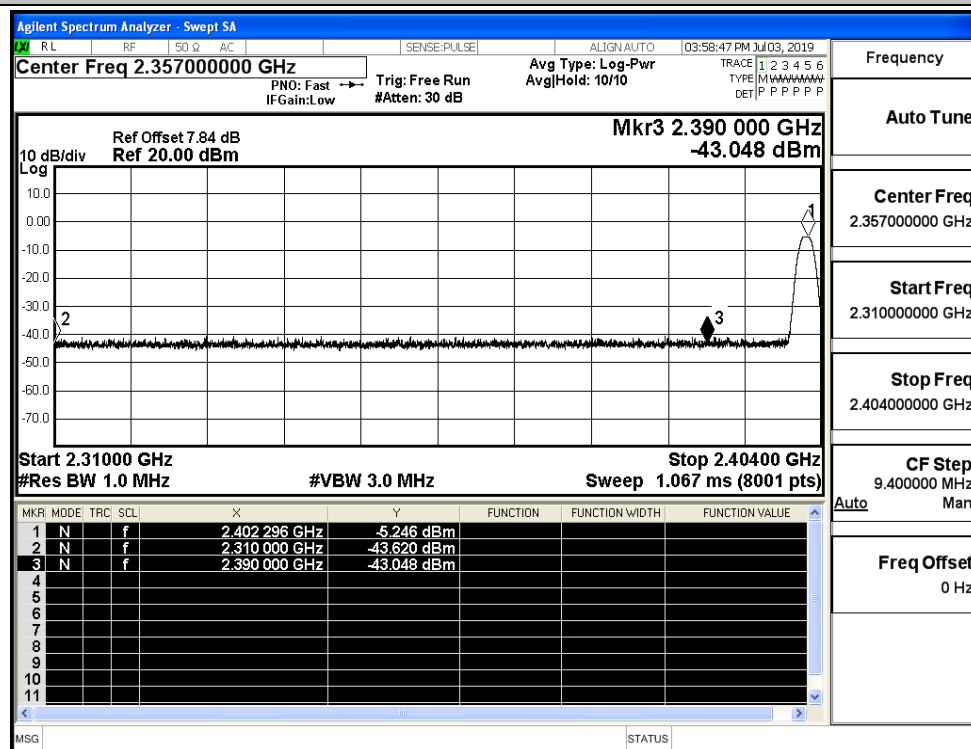
Freq Offset

0 Hz

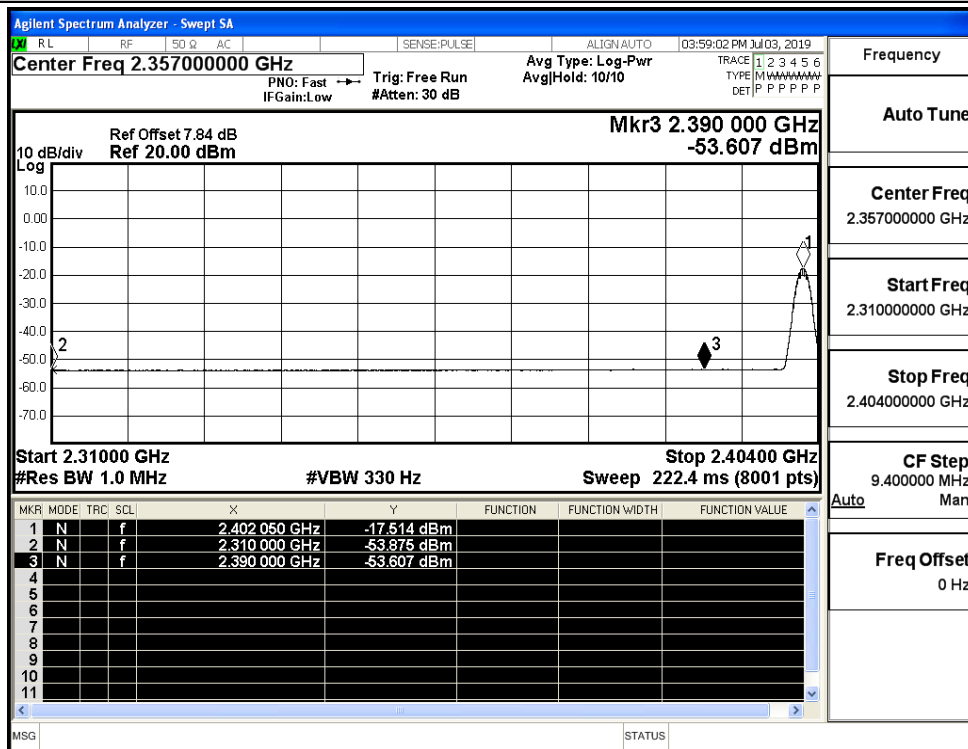
B.7 Restrict-band band-edge measurements

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	-43.62	2.0	0	52.64	PEAK	74	PASS
		Ant1	2310.0	-53.88	2.0	0	42.38	AV	54	PASS
		Ant1	2390.0	-43.05	2.0	0	53.21	PEAK	74	PASS
		Ant1	2390.0	-53.61	2.0	0	42.65	AV	54	PASS
	2480	Ant1	2483.5	-42.59	2.0	0	53.67	PEAK	74	PASS
		Ant1	2483.5	-53.36	2.0	0	42.90	AV	54	PASS
		Ant1	2500.0	-42.96	2.0	0	53.30	PEAK	74	PASS
		Ant1	2500.0	-53.22	2.0	0	43.04	AV	54	PASS

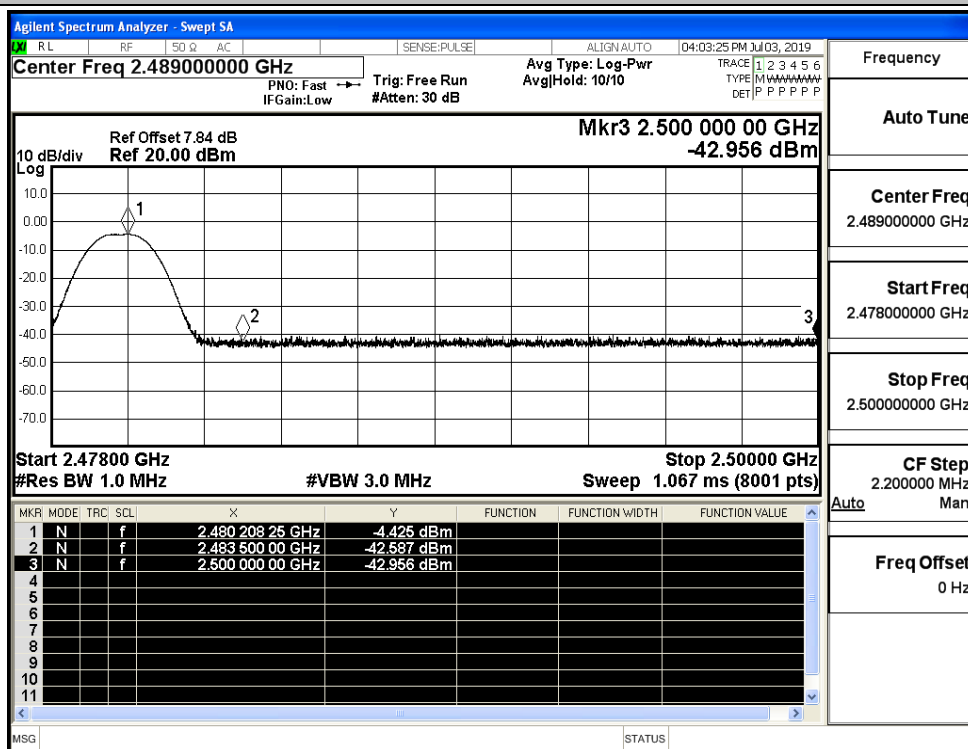
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

