

Appendix A

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

Product Name: Action Camera

Trade Mark: N/A

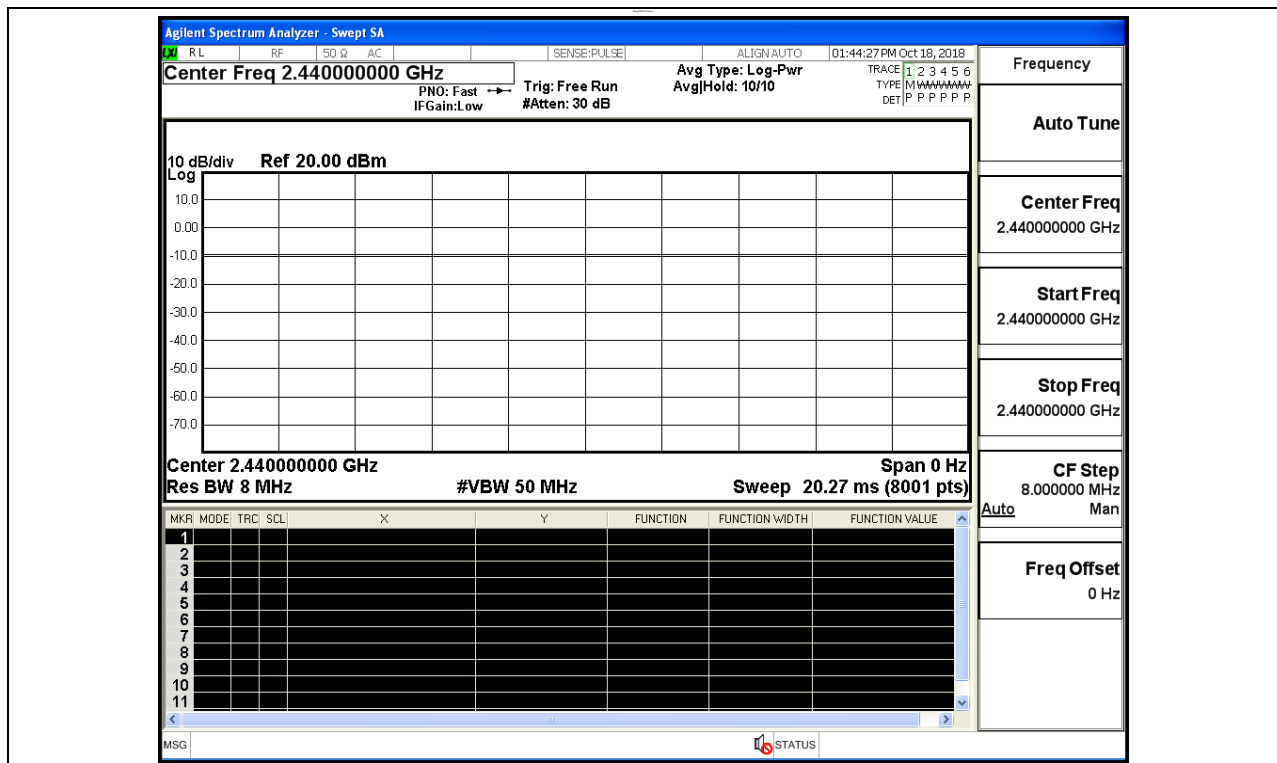
Test Model: SC-100

Environmental Conditions

Temperature:	23.6 ° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden.Zhuo

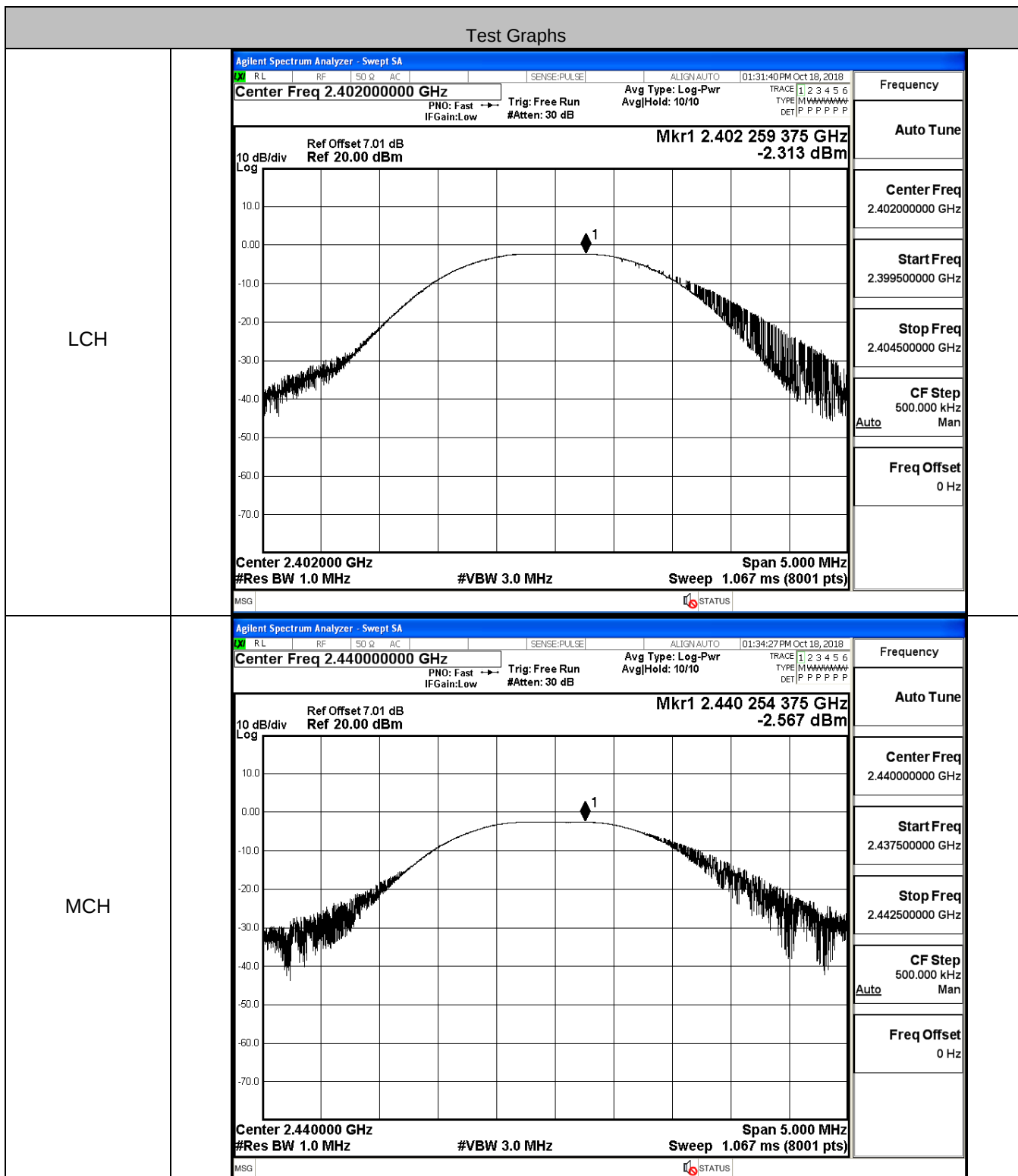
A.1 Duty Cycle

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

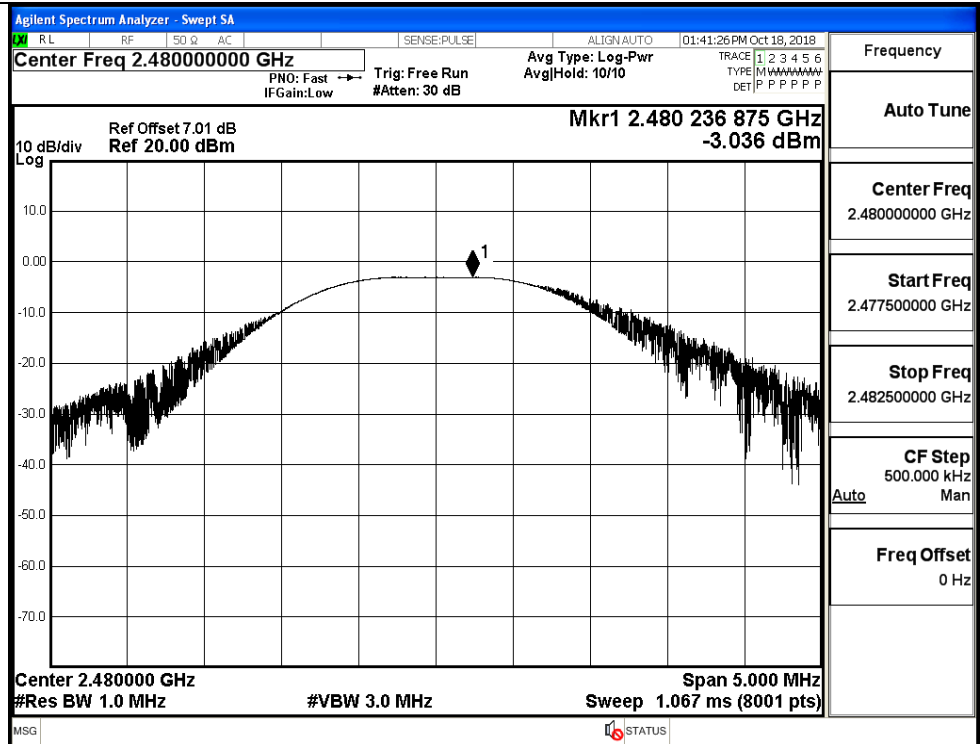


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.313	30	PASS
BT LE	MCH	-2.567	30	PASS
BT LE	HCH	-3.036	30	PASS



HCH



A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.041	8	PASS
BT LE	MCH	-16.203	8	PASS
BT LE	HCH	-16.989	8	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.402000000 GHz

Start Freq

2.401250000 GHz

Stop Freq

2.402750000 GHz

CF Step

150.000 kHz

Auto

Freq Offset

0 Hz

MCH



Frequency

Auto Tune

Center Freq

2.440000000 GHz

Start Freq

2.439250000 GHz

Stop Freq

2.440750000 GHz

CF Step

150.000 kHz

Auto

Freq Offset

0 Hz

HCH

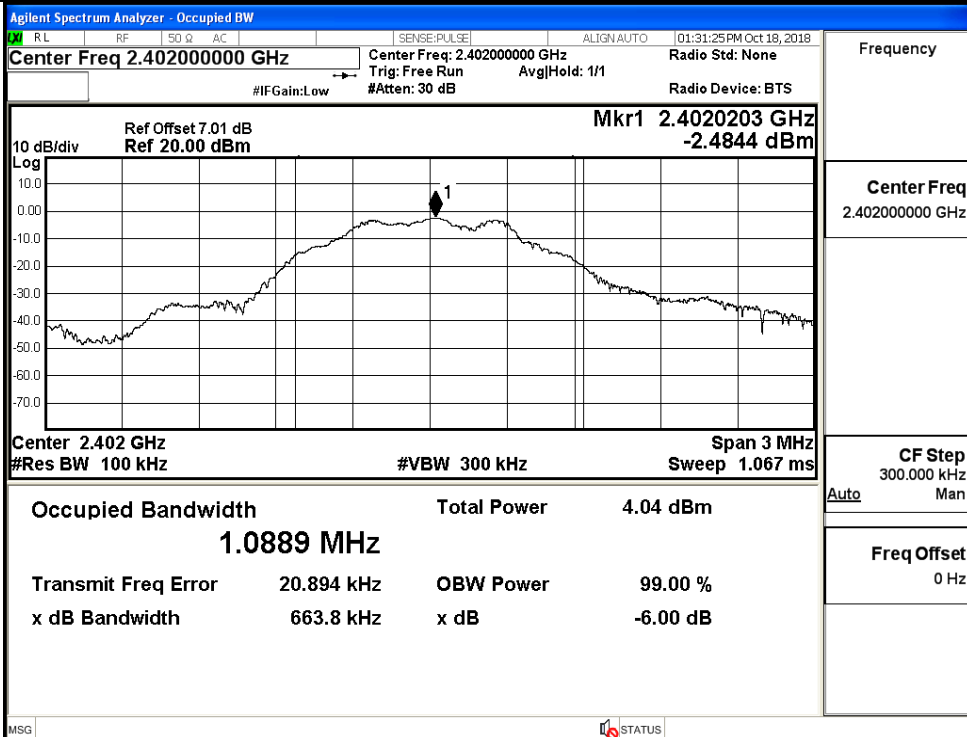


A.4 6dB Bandwidth

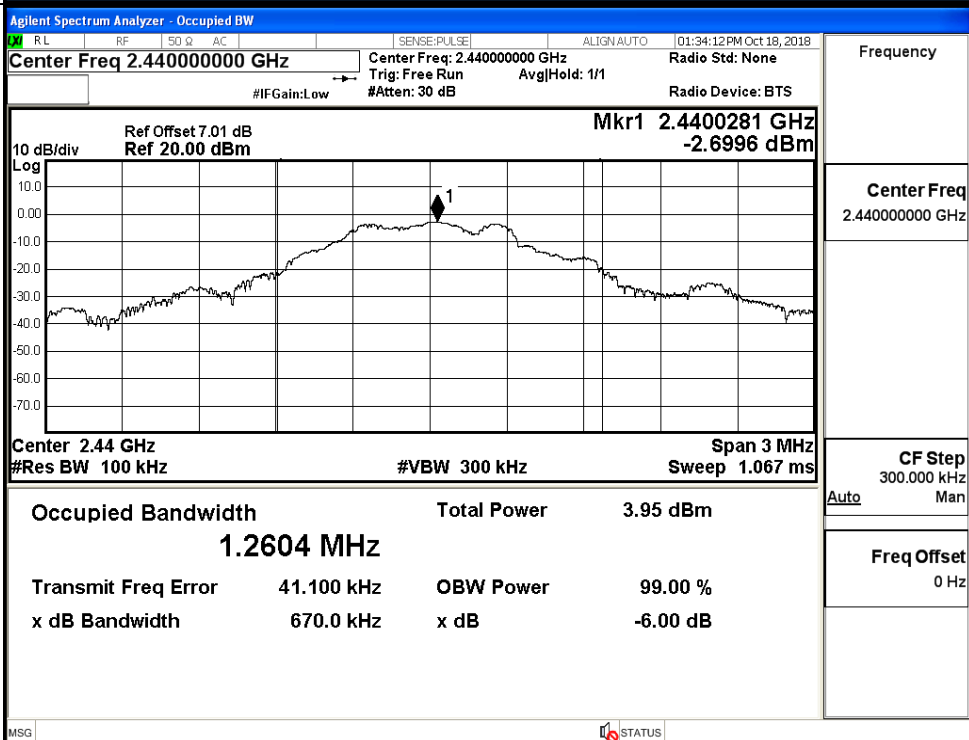
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6638	≥ 0.5	PASS
BT LE	MCH	0.6700	≥ 0.5	PASS
BT LE	HCH	0.6574	≥ 0.5	PASS

Test Graphs

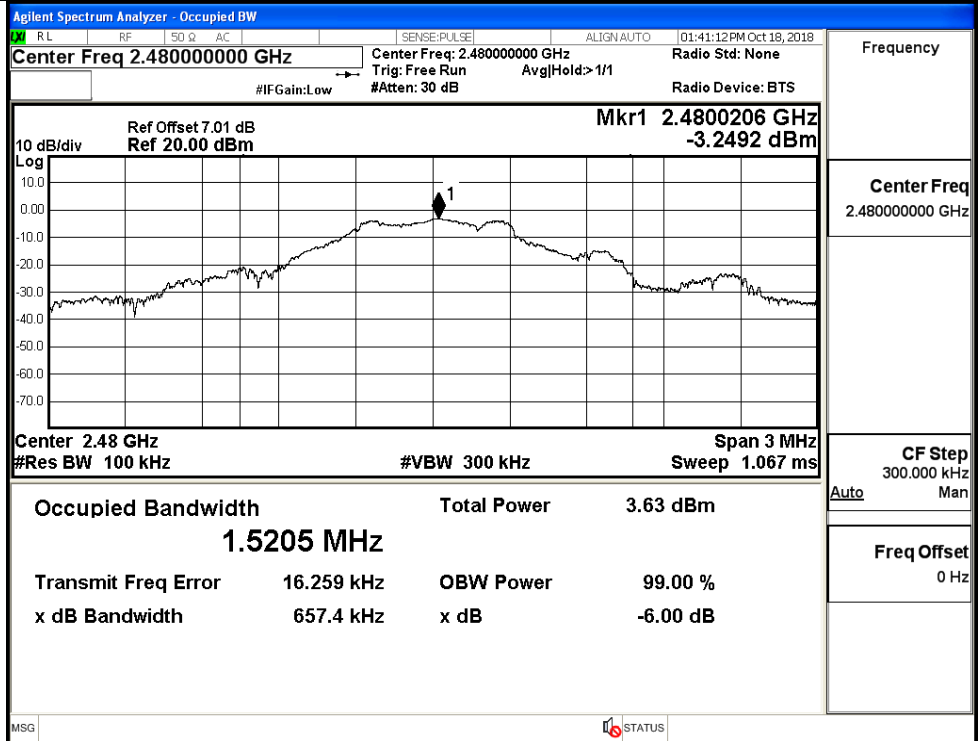
LCH



MCH



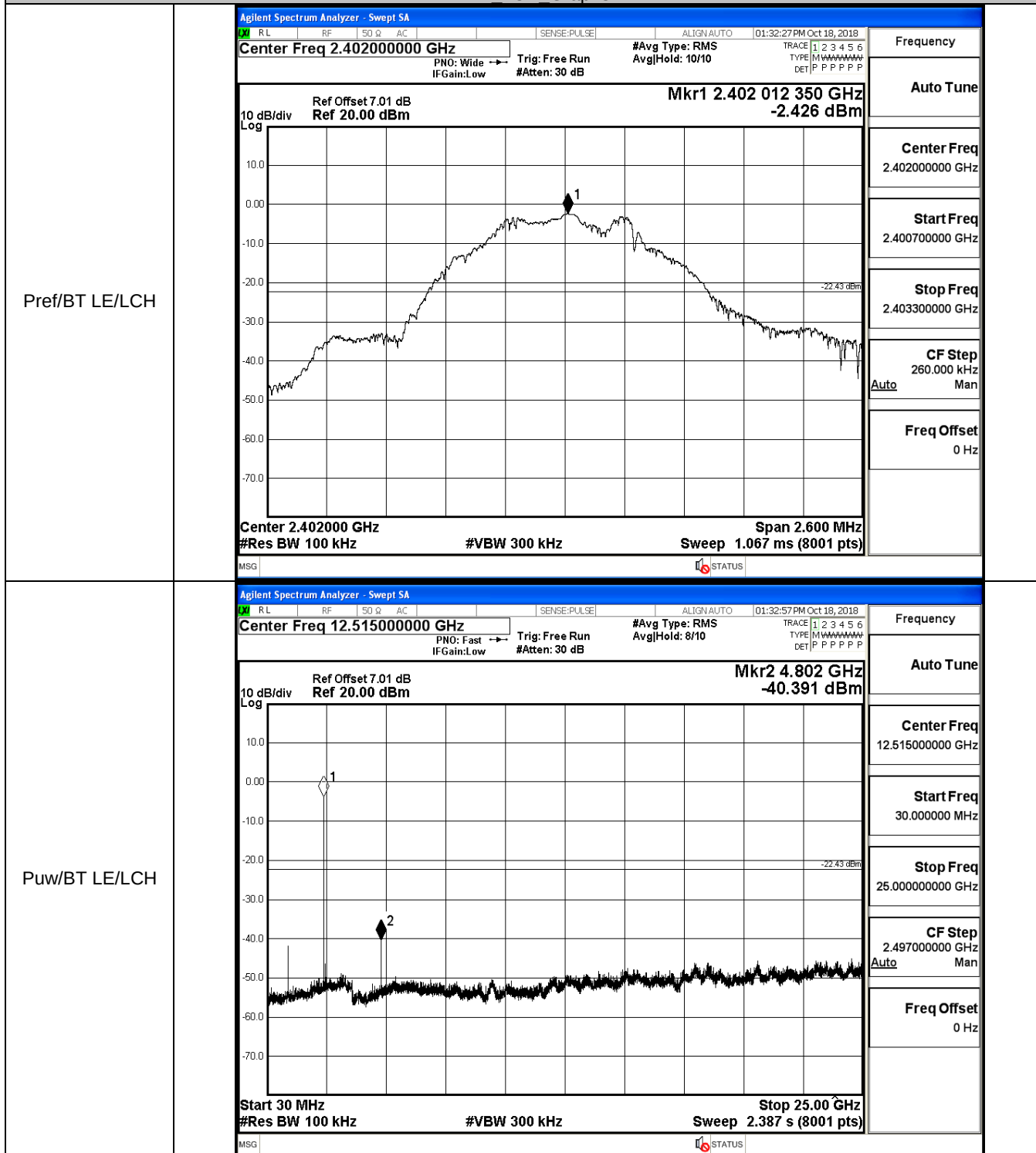
HCH



A.5 RF Conducted Spurious Emissions

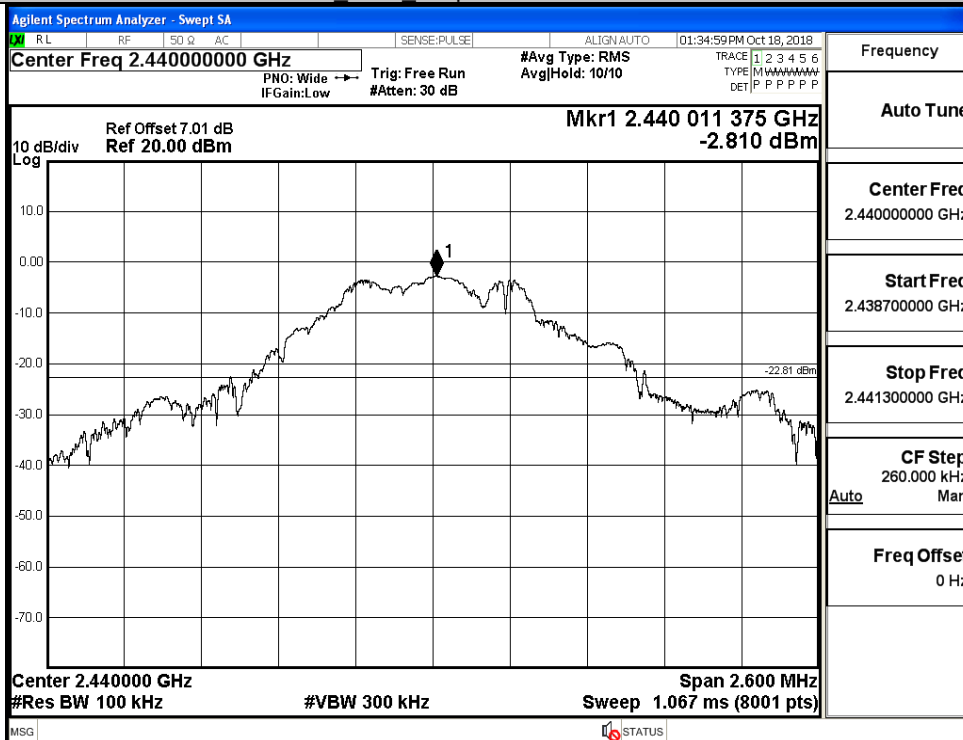
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.426	-40.391	-22.426	PASS
BT LE	MCH	-2.81	-39.371	-22.810	PASS
BT LE	HCH	-3.267	-38.963	-23.267	PASS

BT LE LCH Graphs

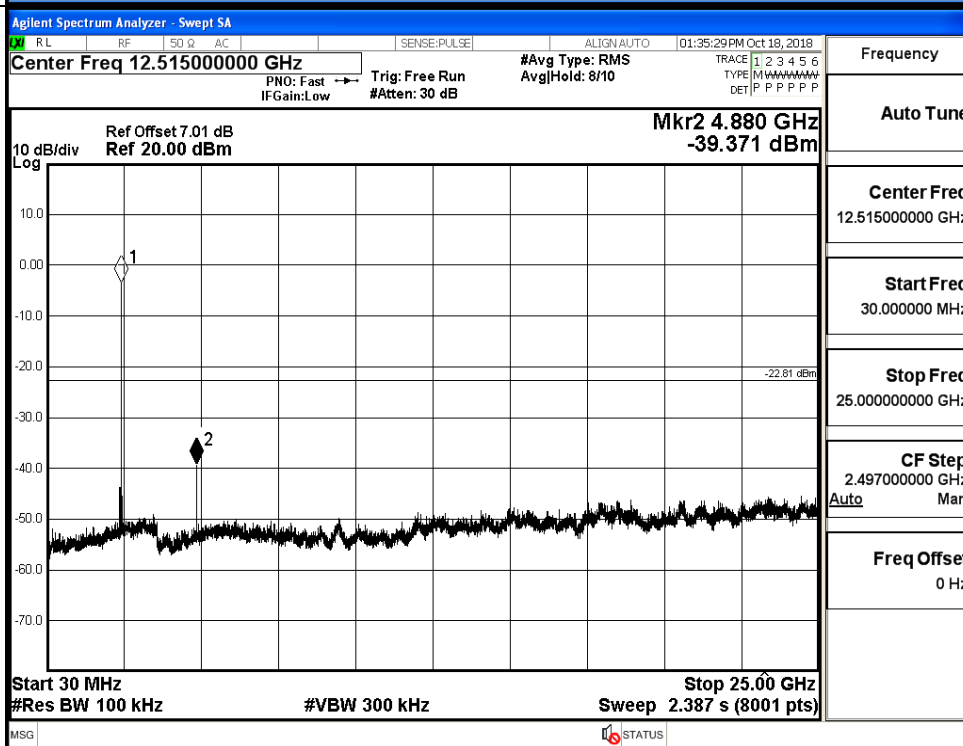


BT LE MCH Graphs

Pref/BT LE/MCH

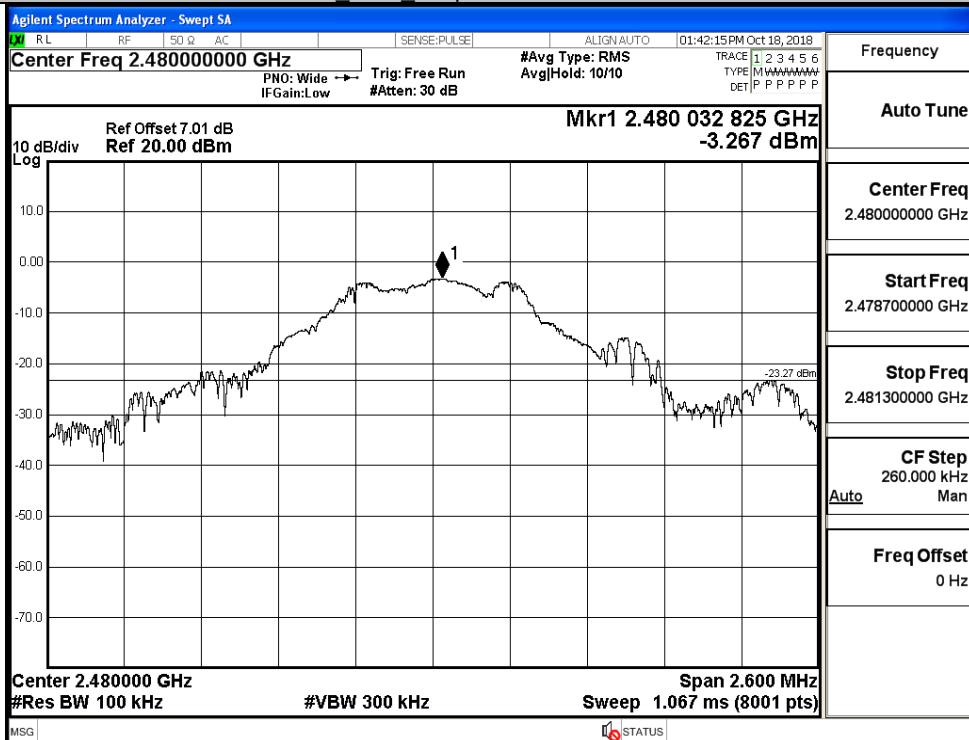


Puw/BT LE/MCH

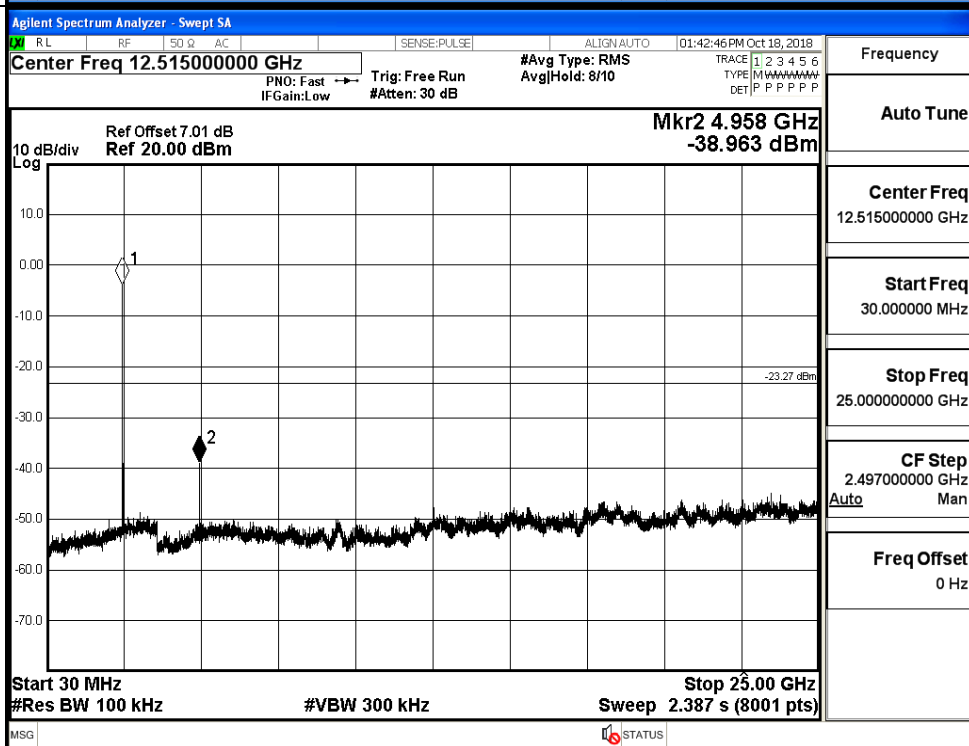


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

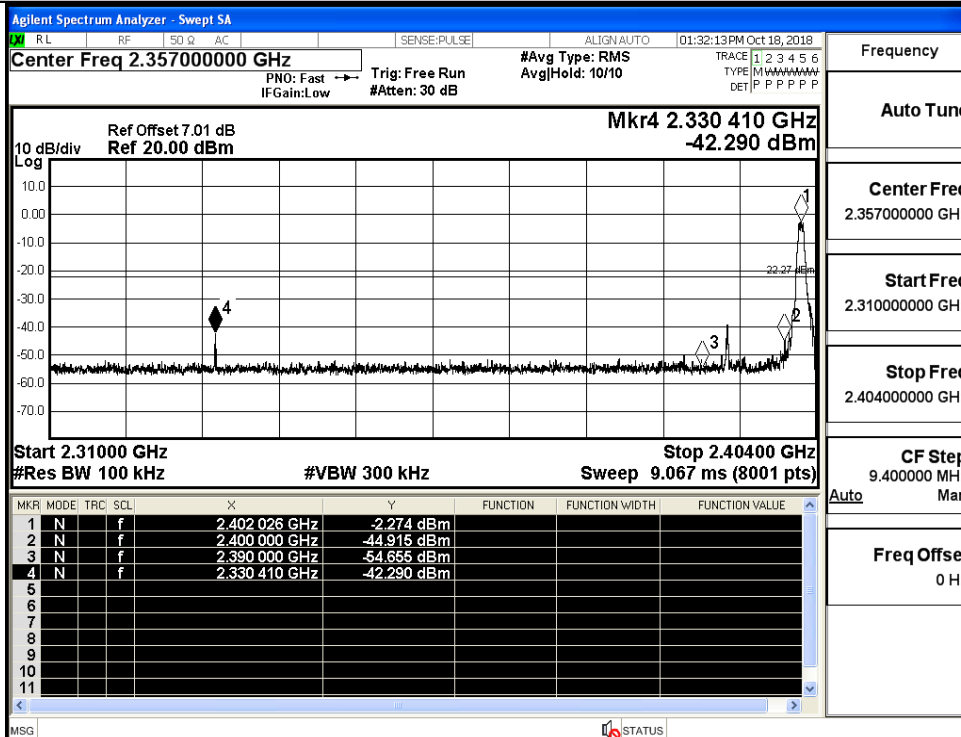


A.6 Band-edge for RF Conducted Emissions

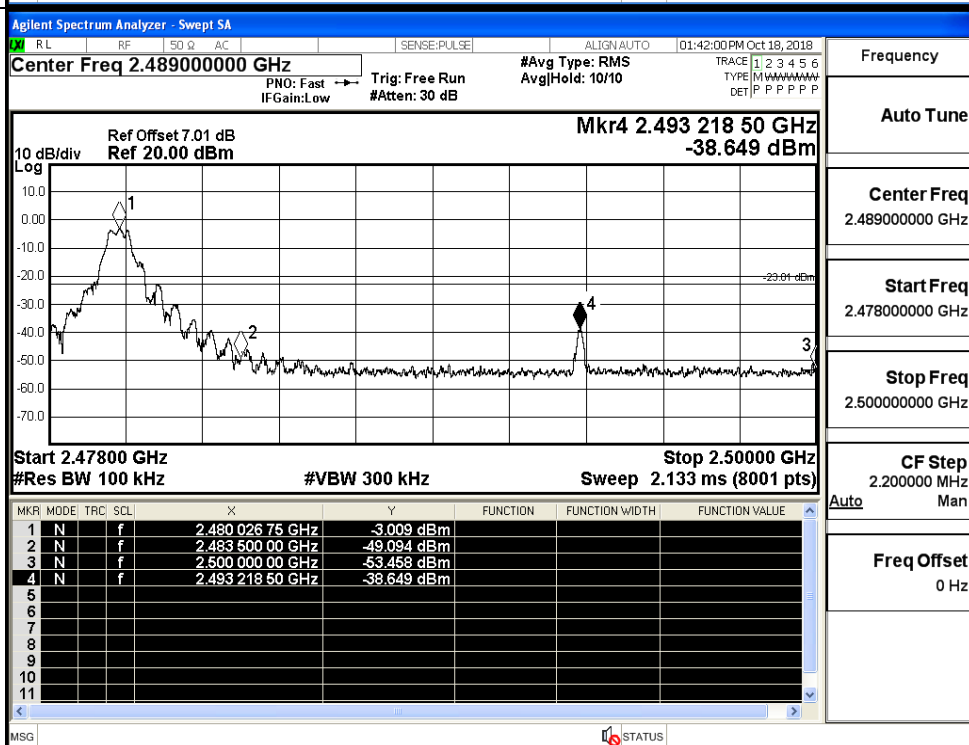
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.274	-42.290	-22.27	PASS
BT LE	HCH	-3.009	-38.649	-23.01	PASS

Test Graphs

LCH



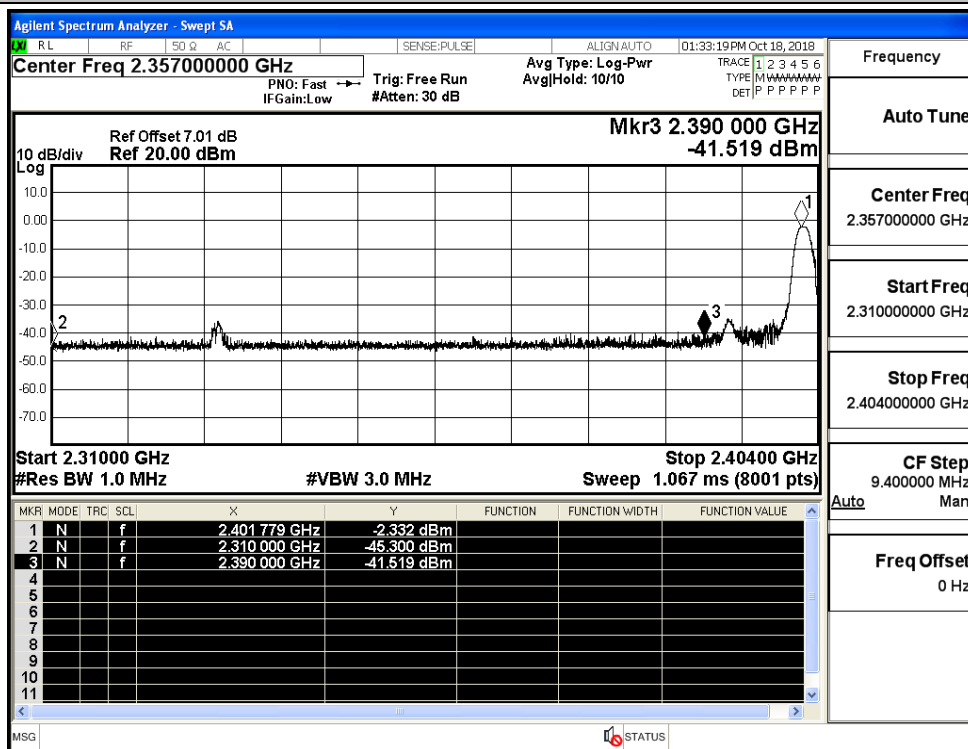
HCH



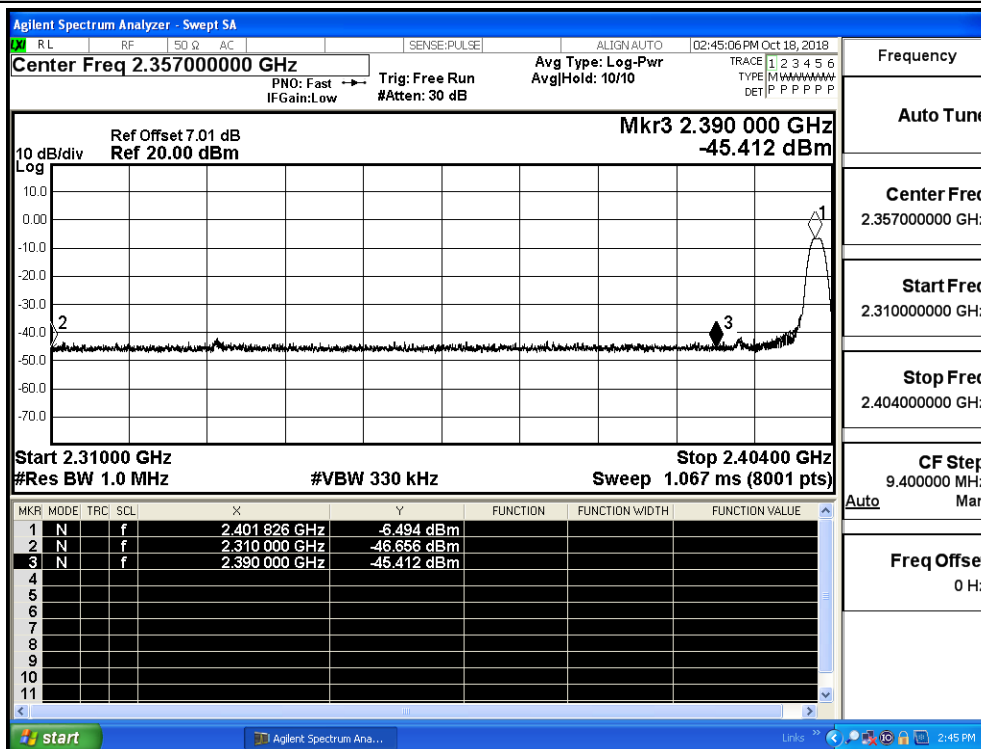
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BT LE	2402	Ant1	2310.0	-45.30	2.41	0	52.34	PEAK	74	PASS
		Ant1	2310.0	-46.66	2.41	0	50.98	AV	54	PASS
		Ant1	2390.0	-41.52	2.41	0	56.12	PEAK	74	PASS
		Ant1	2390.0	-45.41	2.41	0	52.23	AV	54	PASS
	2480	Ant1	2483.5	-33.28	2.41	0	64.36	PEAK	74	PASS
		Ant1	2483.5	-45.33	2.41	0	52.31	AV	54	PASS
		Ant1	2500.0	-42.72	2.41	0	54.92	PEAK	74	PASS
		Ant1	2500.0	-45.75	2.41	0	51.89	AV	54	PASS

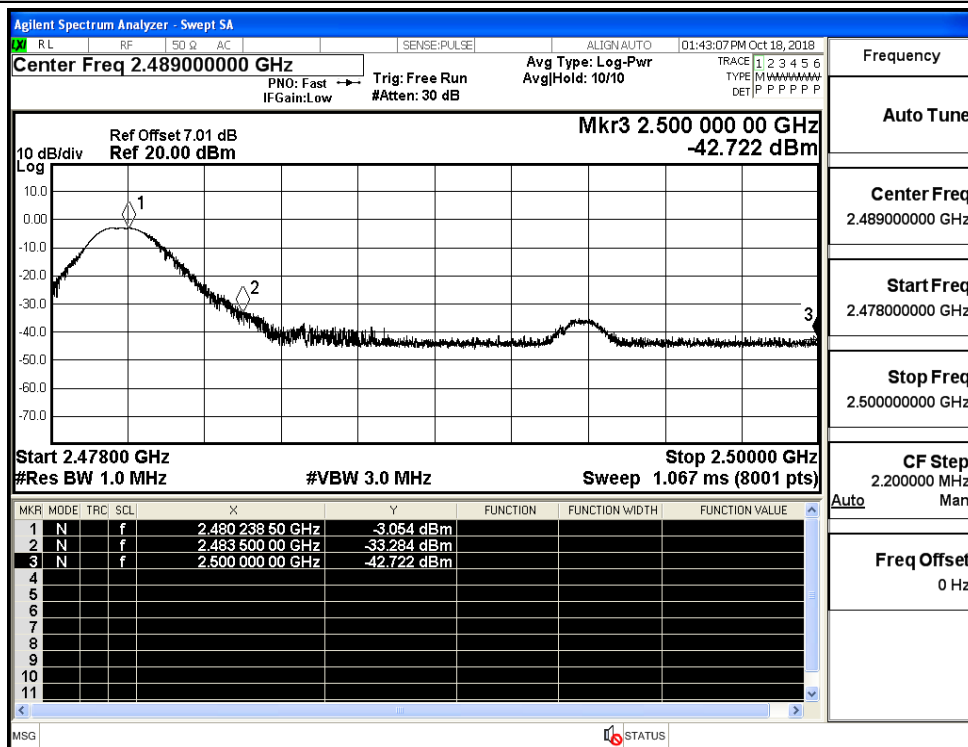
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

