

Appendix A

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

Product Name: Fish logger

Trade Mark: Fish logger

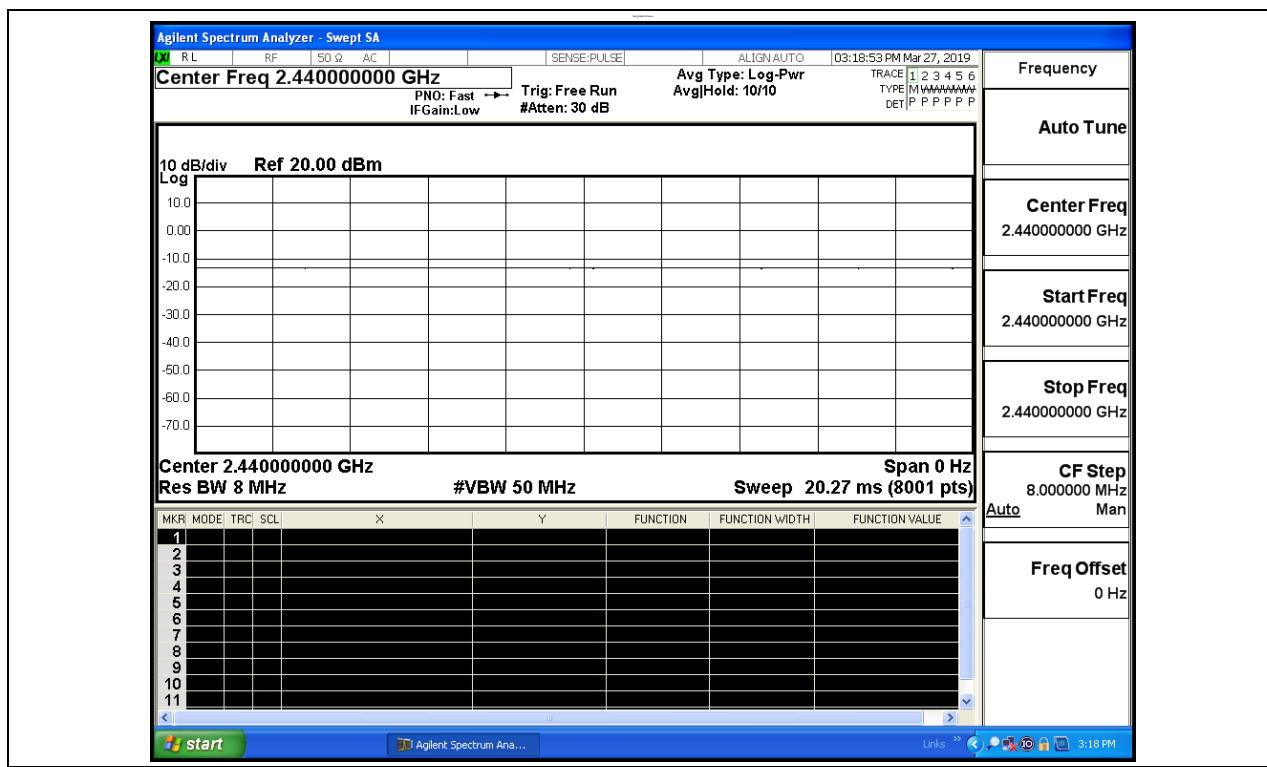
Test Model: FL-01

Environmental Conditions

Temperature:	23.6 ° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	SCENT HU
Supervised by:	Tom.Liu

A.1 Duty Cycle

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

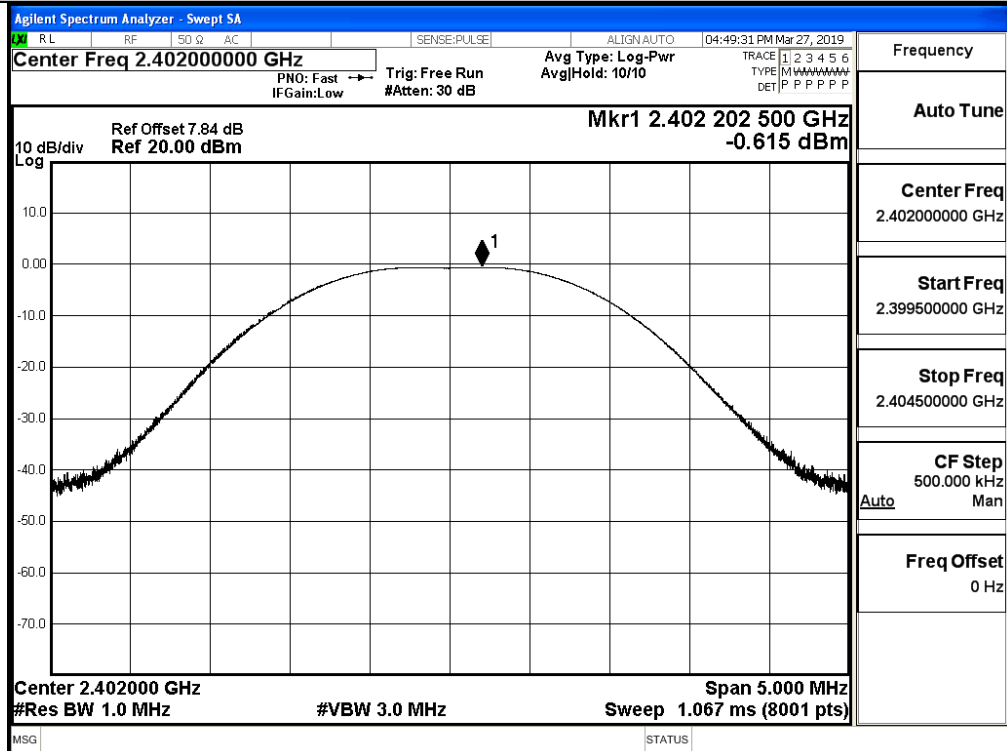


A.2 Maximum Conducted Peak Output Power

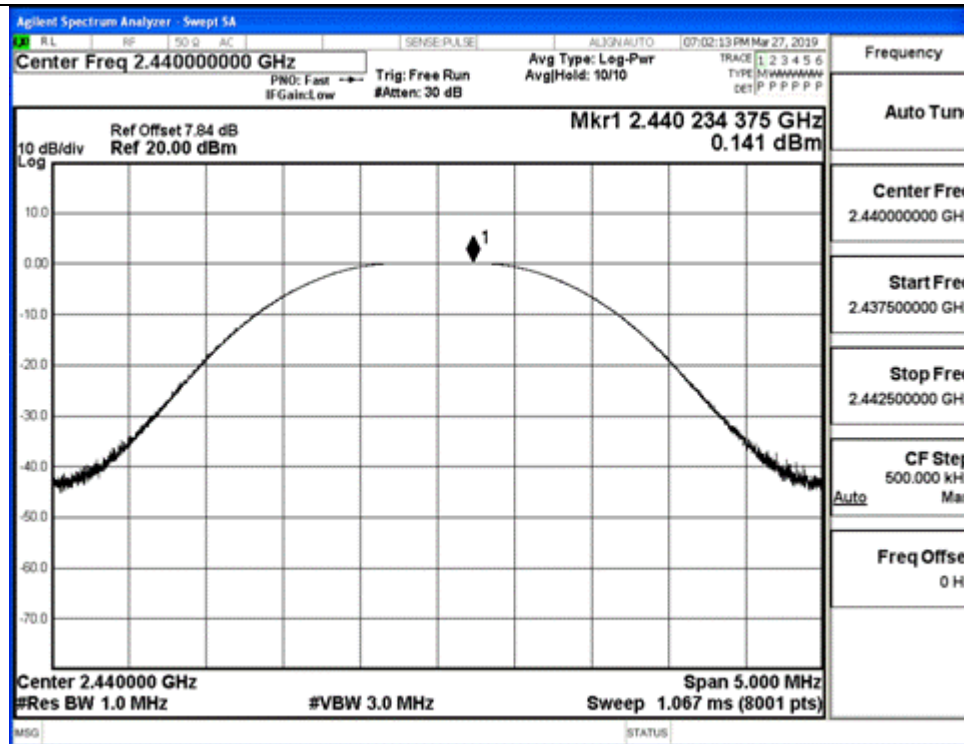
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.615	30	PASS
BT LE	MCH	0.141	30	PASS
BT LE	HCH	-1.212	30	PASS

Test Graphs

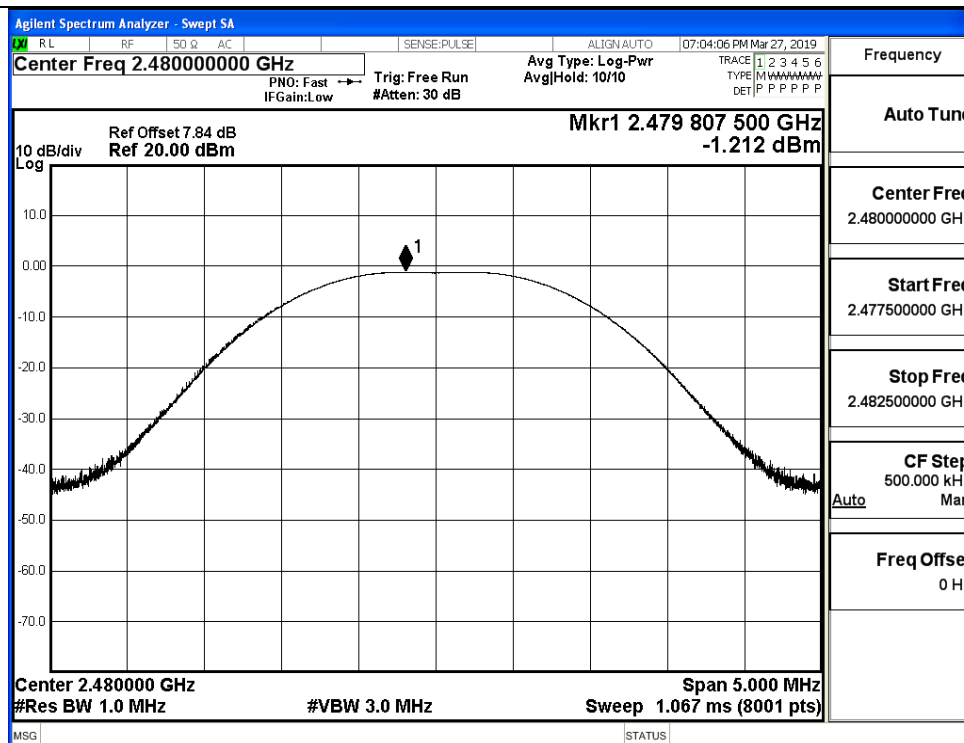
LCH



MCH



HCH

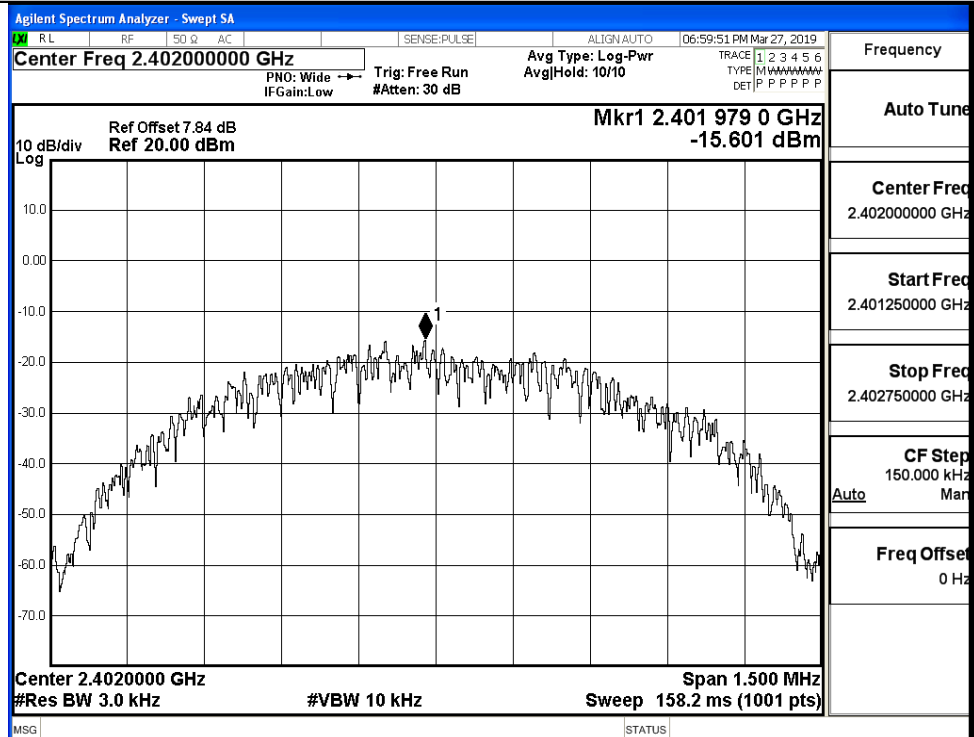


A.3 Maximum Power Spectral Density

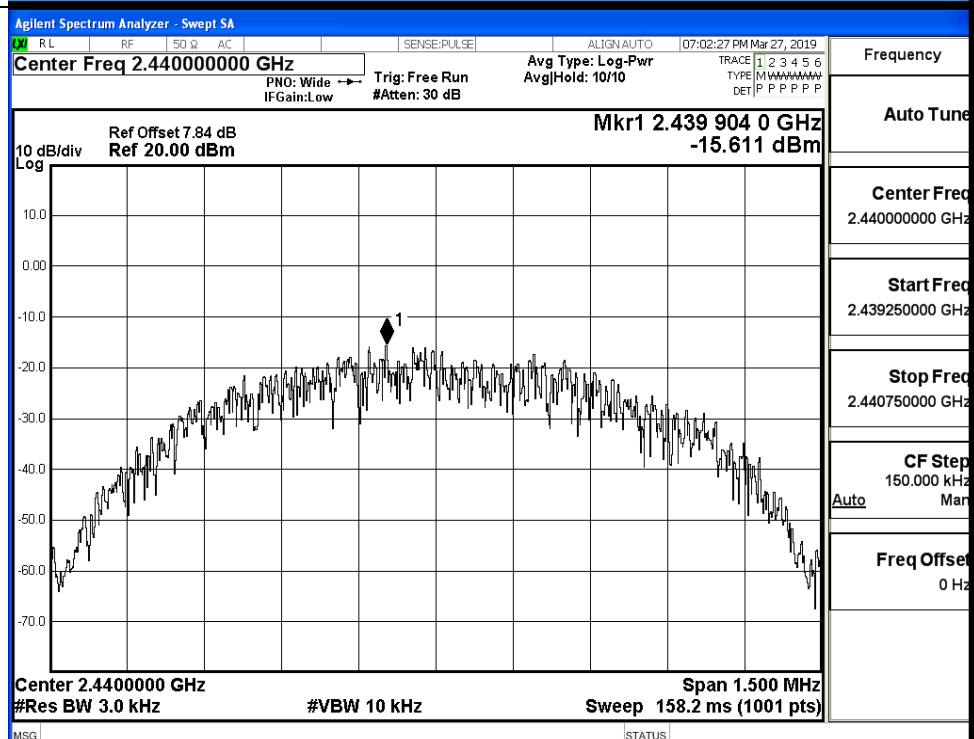
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.601	8	PASS
BT LE	MCH	-15.611	8	PASS
BT LE	HCH	-17.079	8	PASS

Test Graphs

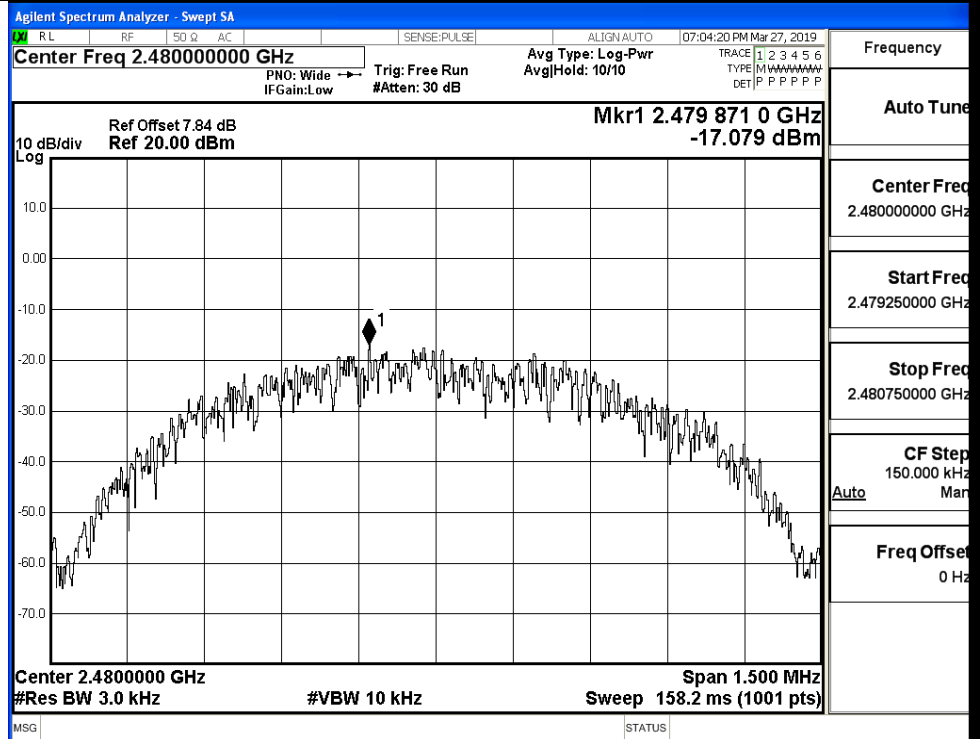
LCH



MCH



HCH

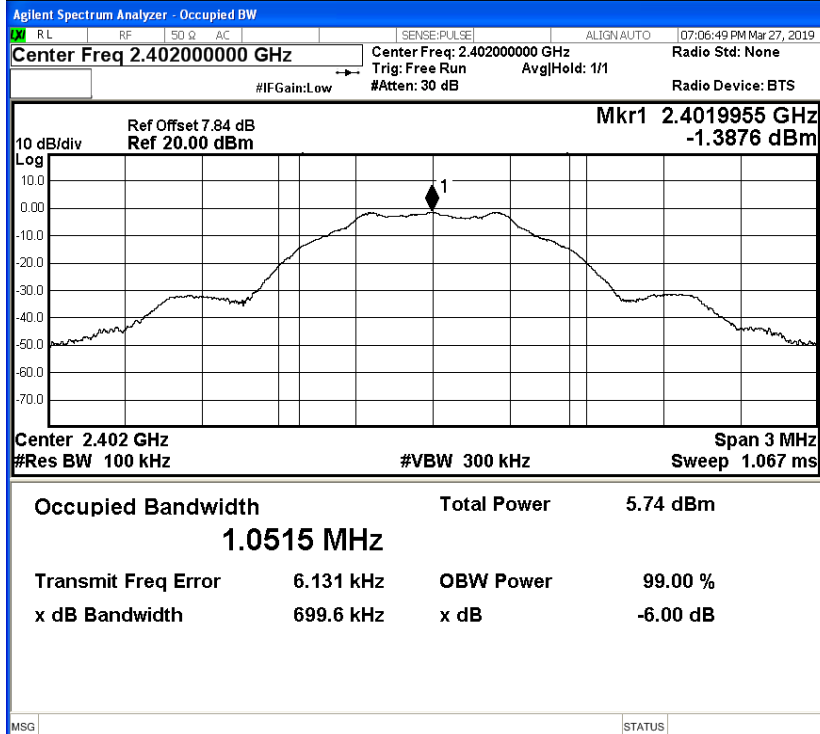


A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6996	≥ 0.5	PASS
BT LE	MCH	0.6953	≥ 0.5	PASS
BT LE	HCH	0.6933	≥ 0.5	PASS

Test Graphs

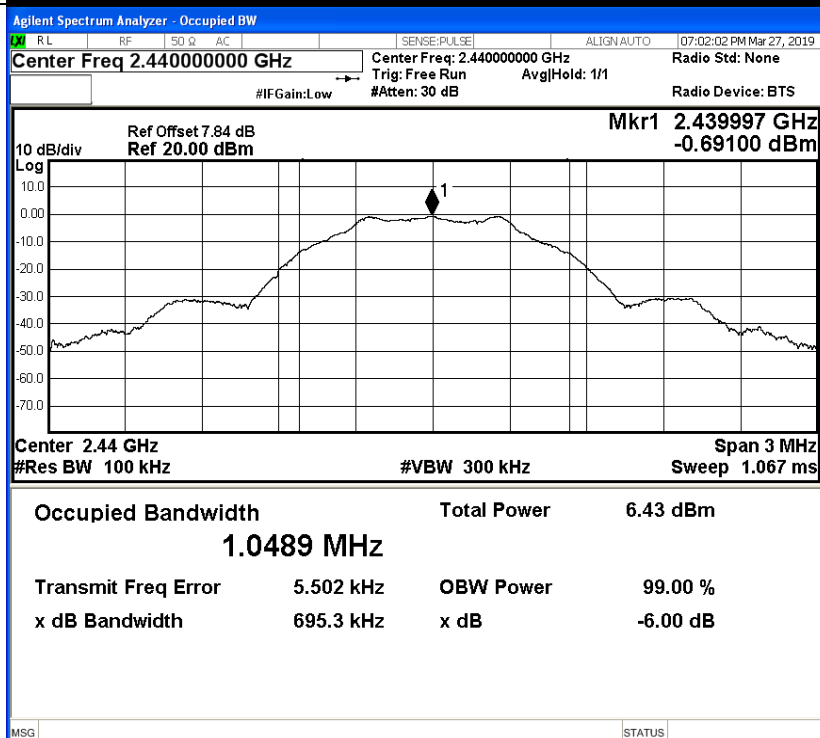
LCH



Frequency

Center Freq
2.402000000 GHzCF Step
300.000 kHz
Auto MarFreq Offset
0 Hz

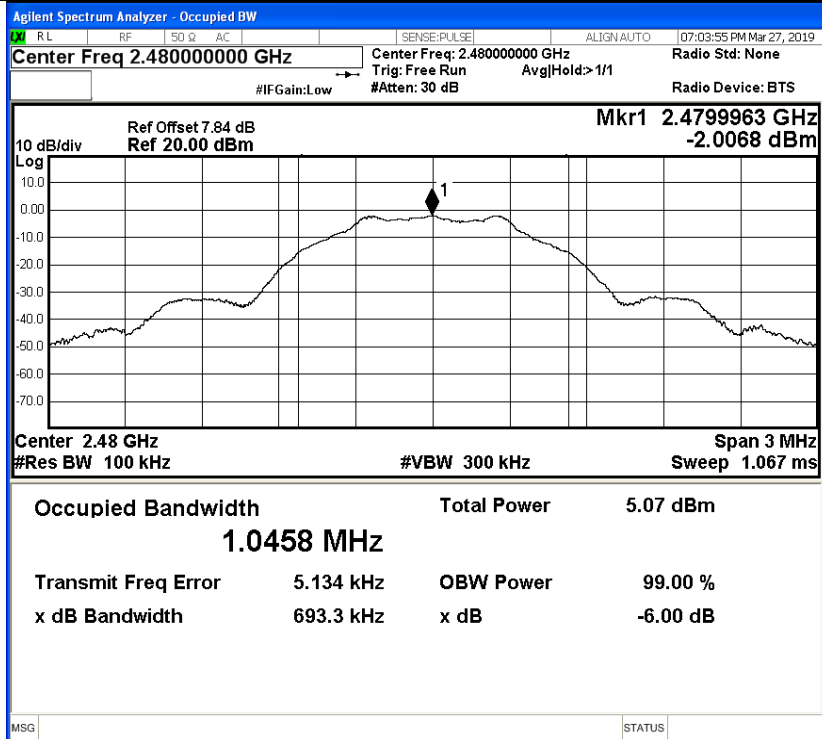
MCH



Frequency

Center Freq
2.440000000 GHzCF Step
300.000 kHz
Auto MarFreq Offset
0 Hz

HCH



Frequency

Center Freq
2.480000000 GHzCF Step
300.000 kHz
Man

Auto

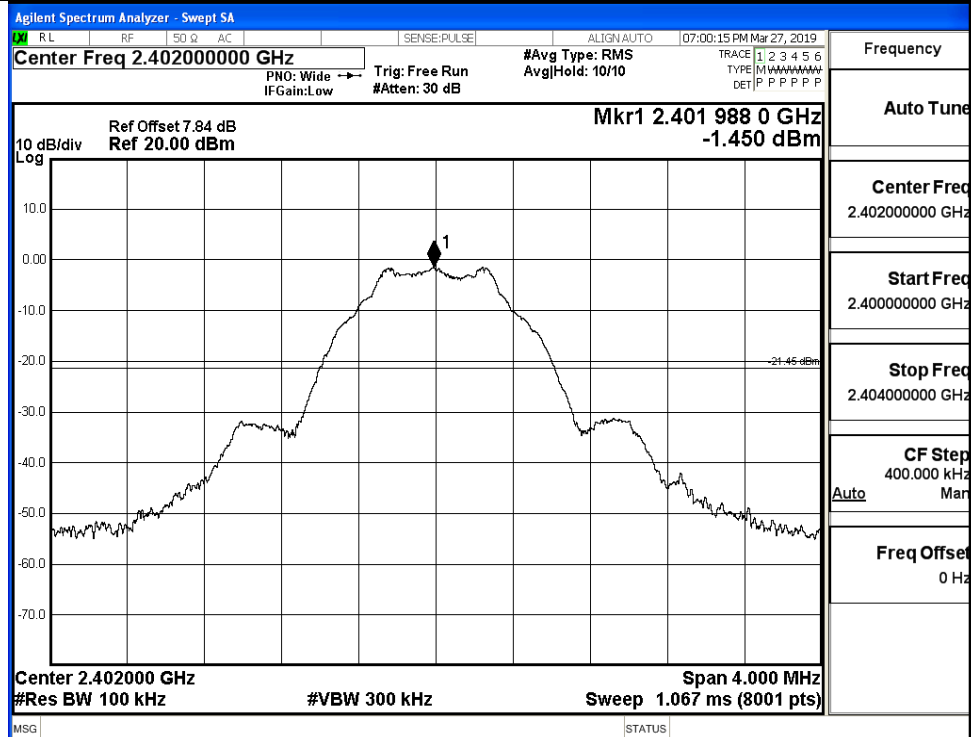
Freq Offset
0 Hz

A.5 RF Conducted Spurious Emissions

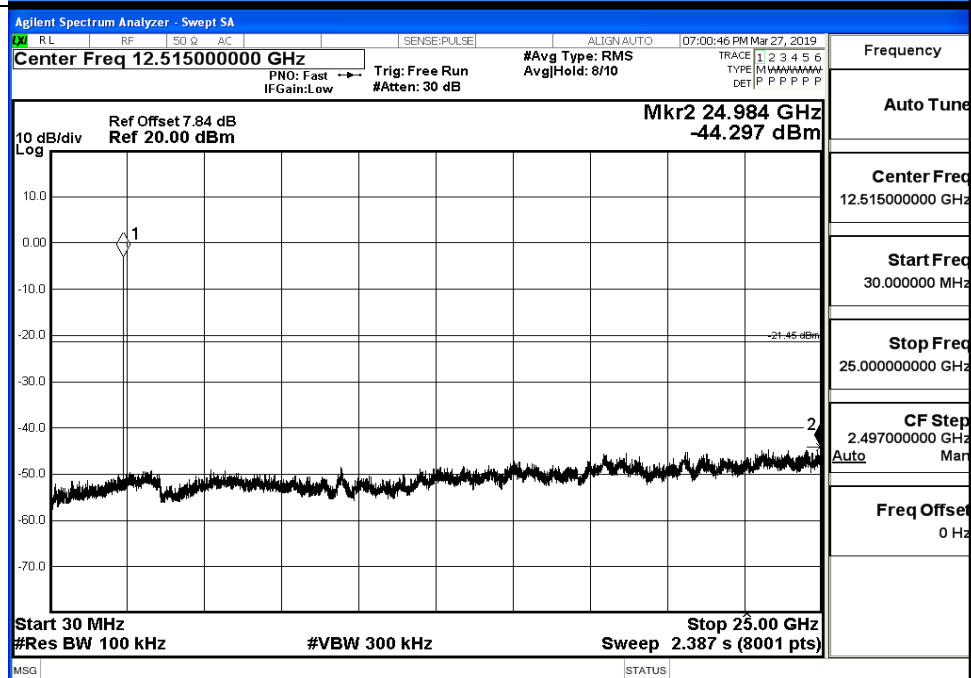
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.45	-44.297	-21.450	PASS
BT LE	MCH	-0.658	-44.149	-20.658	PASS
BT LE	HCH	-1.98	-44.375	-21.980	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

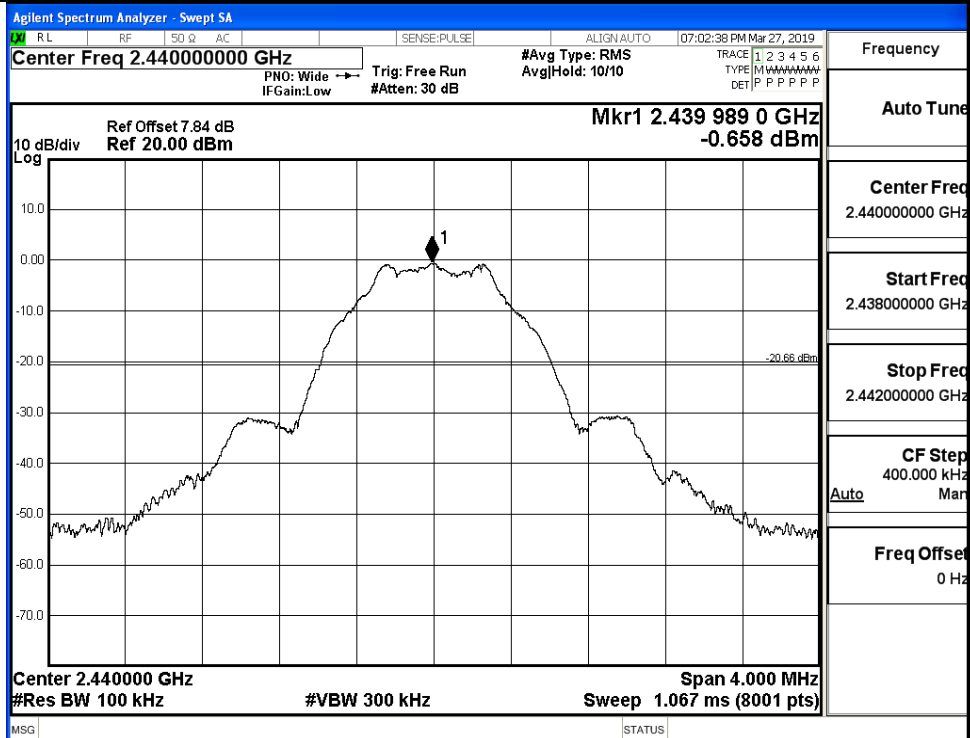


Puw/BT LE/LCH

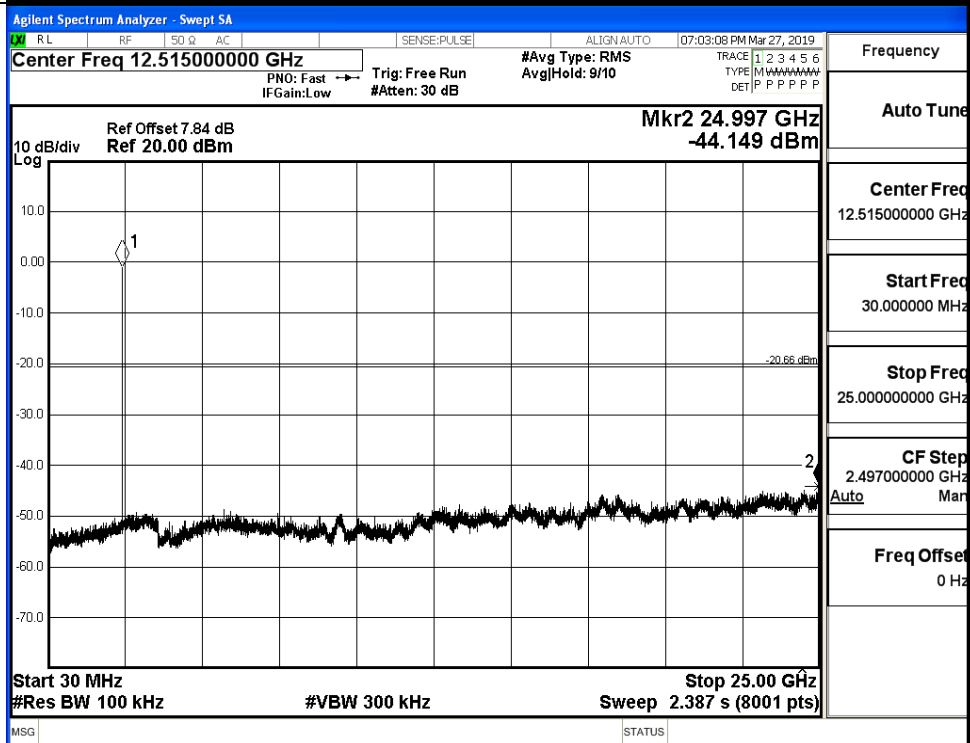


BT LE MCH Graphs

Pref/BT LE/MCH

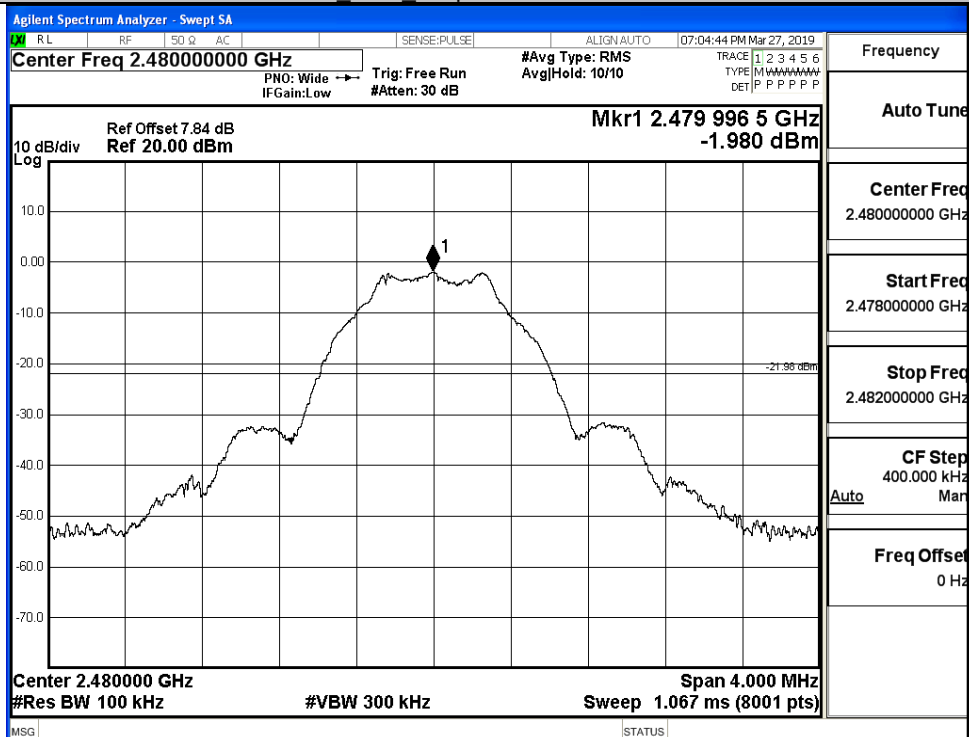


Puw/BT LE/MCH

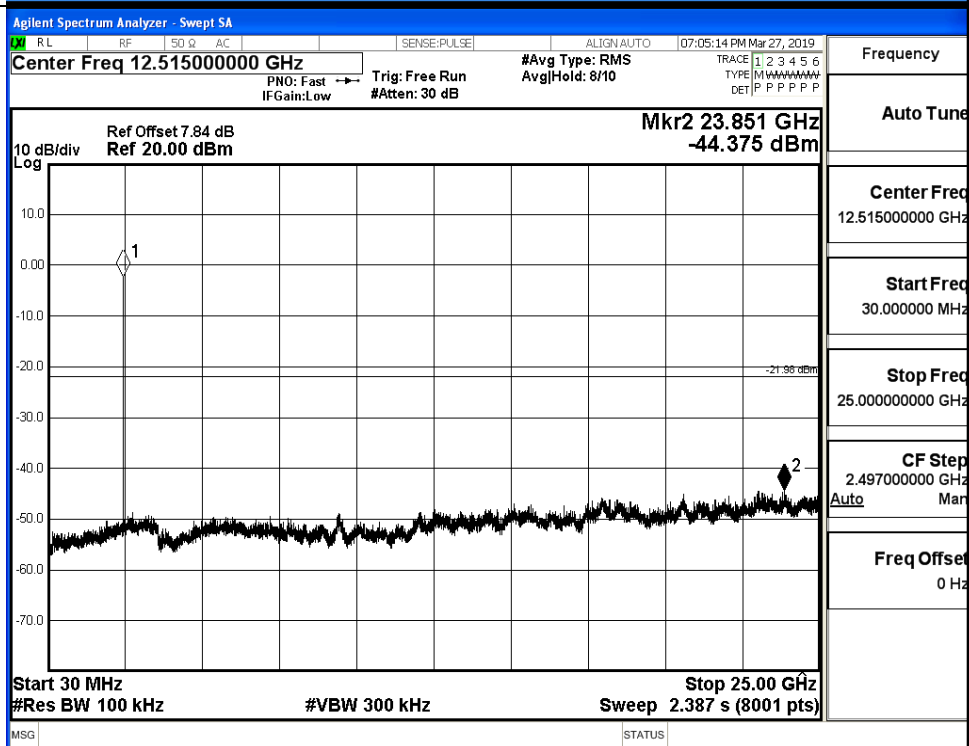


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

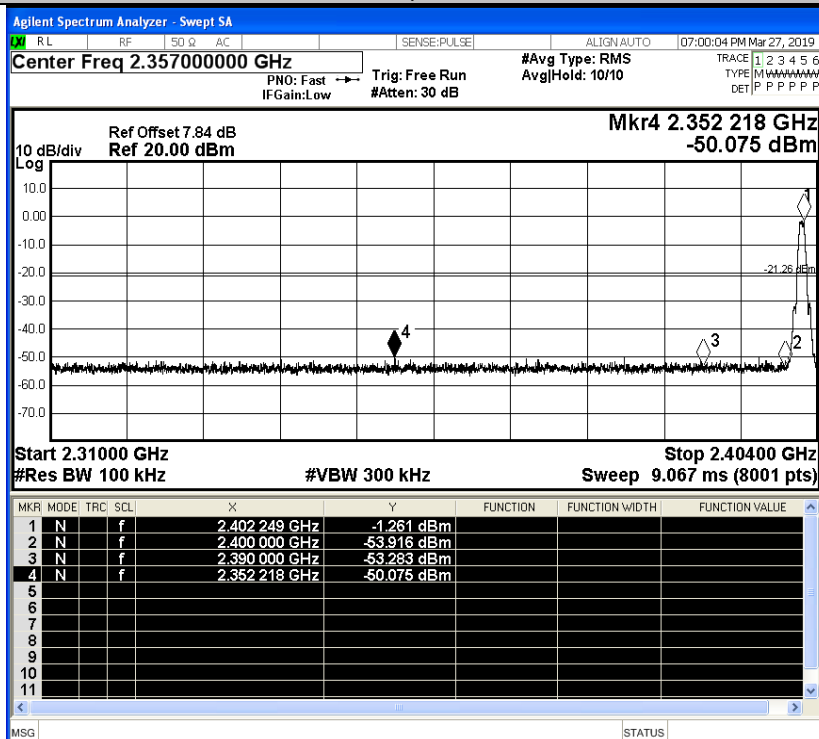


A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.261	-50.075	-21.26	PASS
BT LE	HCH	-1.809	-50.410	-21.81	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

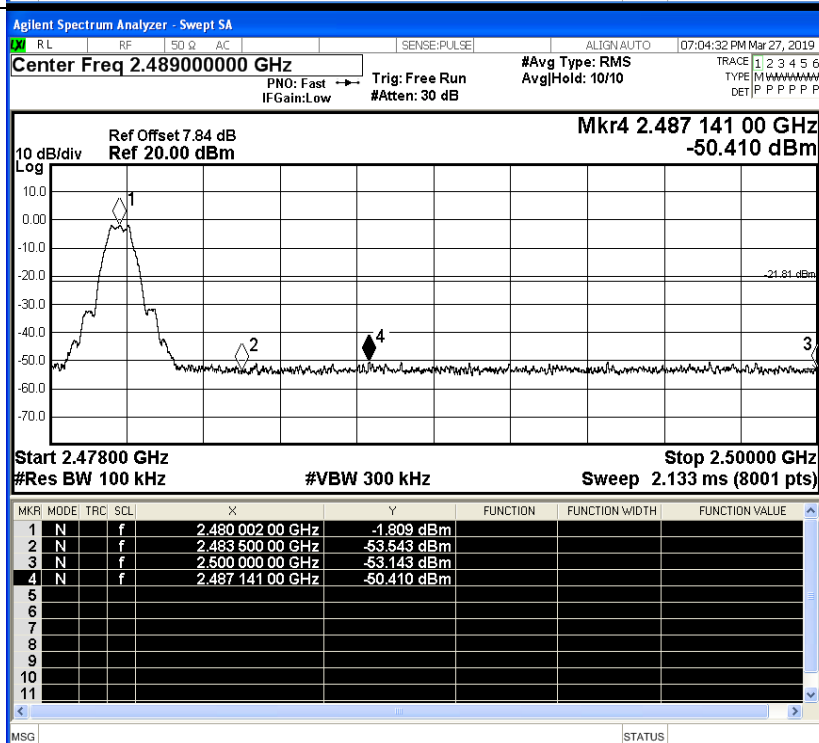
CF Step

9.400000 MHz

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

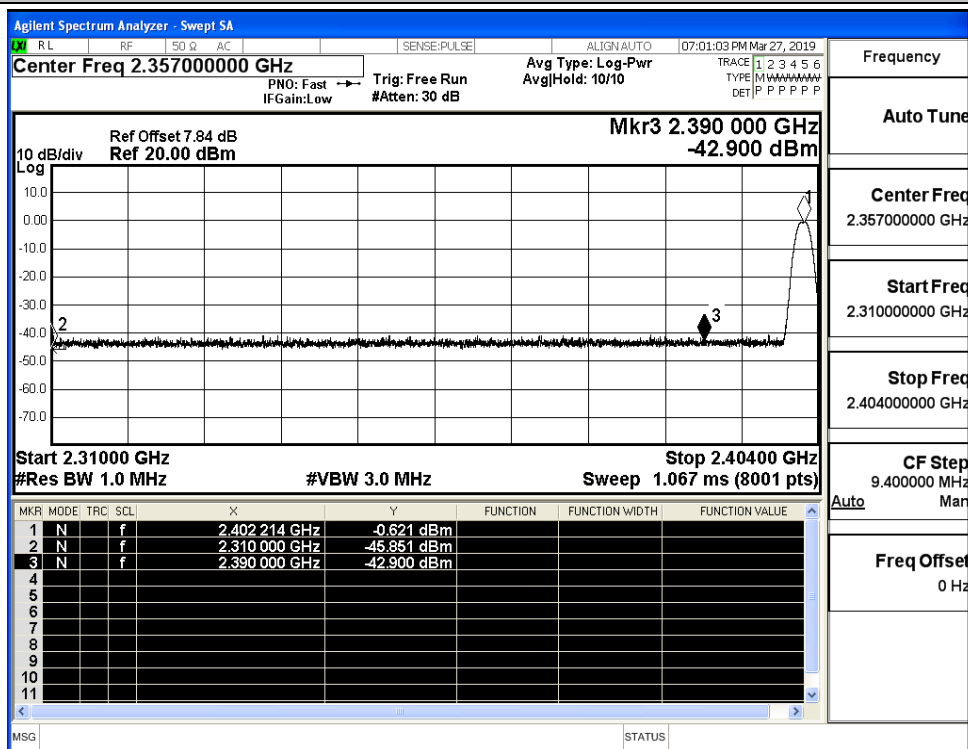
Freq Offset

0 Hz

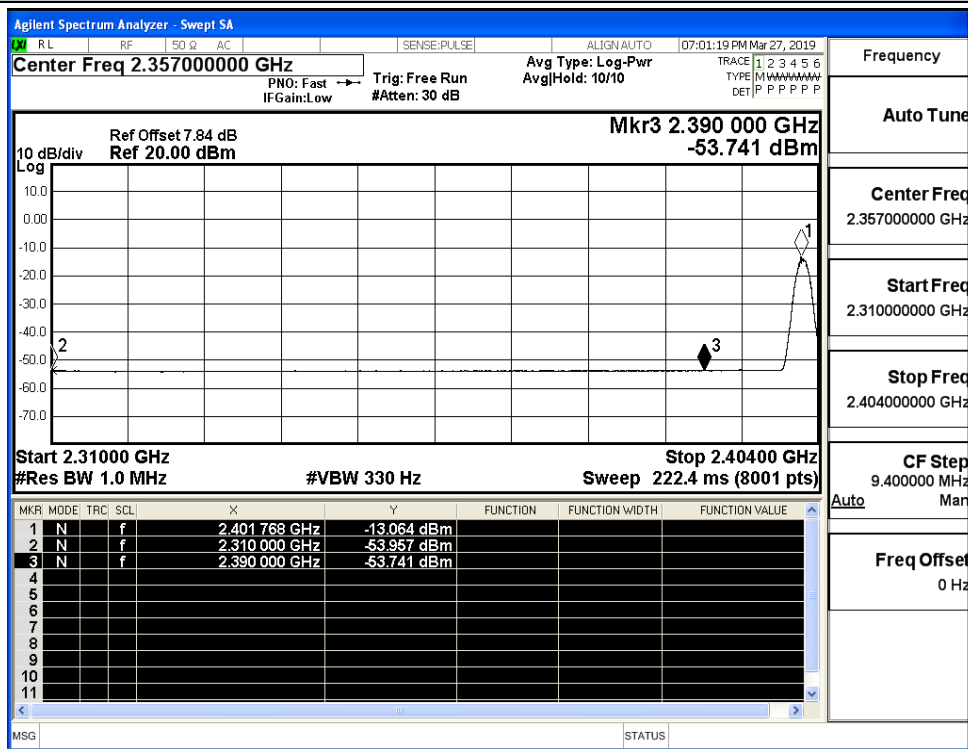
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-45.85	2.0	0	51.41	PEAK	74	PASS
		Ant1	2310.0	-53.96	2.0	0	43.30	AV	54	PASS
		Ant1	2390.0	-42.90	2.0	0	54.36	PEAK	74	PASS
		Ant1	2390.0	-53.74	2.0	0	43.52	AV	54	PASS
	2480	Ant1	2483.5	-43.56	2.0	0	53.70	PEAK	74	PASS
		Ant1	2483.5	-53.53	2.0	0	43.73	AV	54	PASS
		Ant1	2500.0	-42.48	2.0	0	54.78	PEAK	74	PASS
		Ant1	2500.0	-53.32	2.0	0	43.94	AV	54	PASS

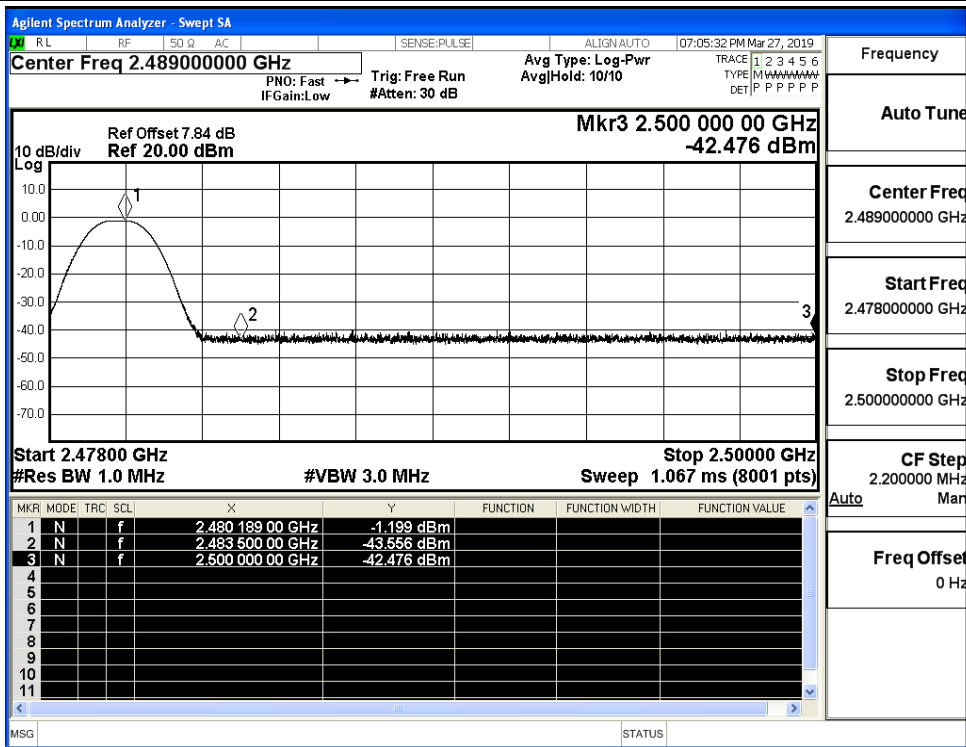
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

