

Appendix A

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

Product Name: Car Dash Camera

Trade Mark: VIOFO

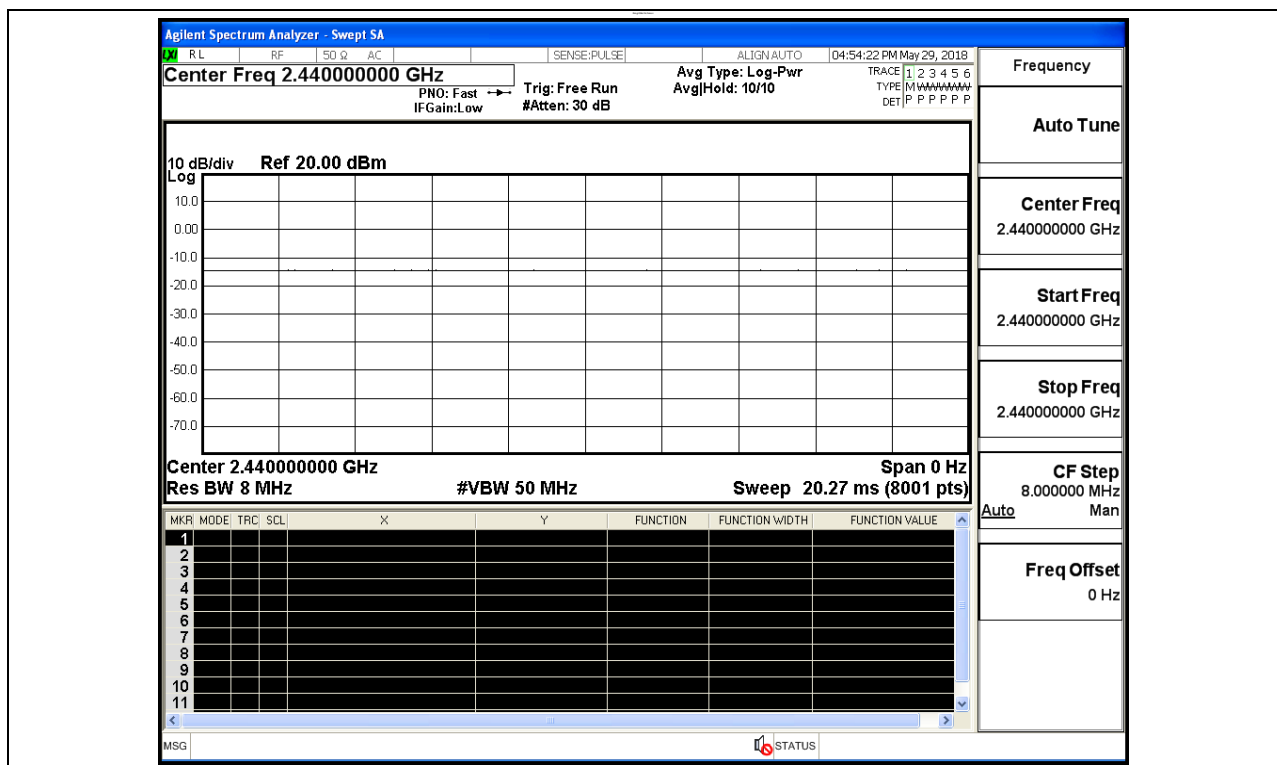
Test Model: A129

Environmental Conditions

Temperature:	22.2 ° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Ryan.Hu
Supervised by:	Jayden.Zhuo

A.1 Duty Cycle

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

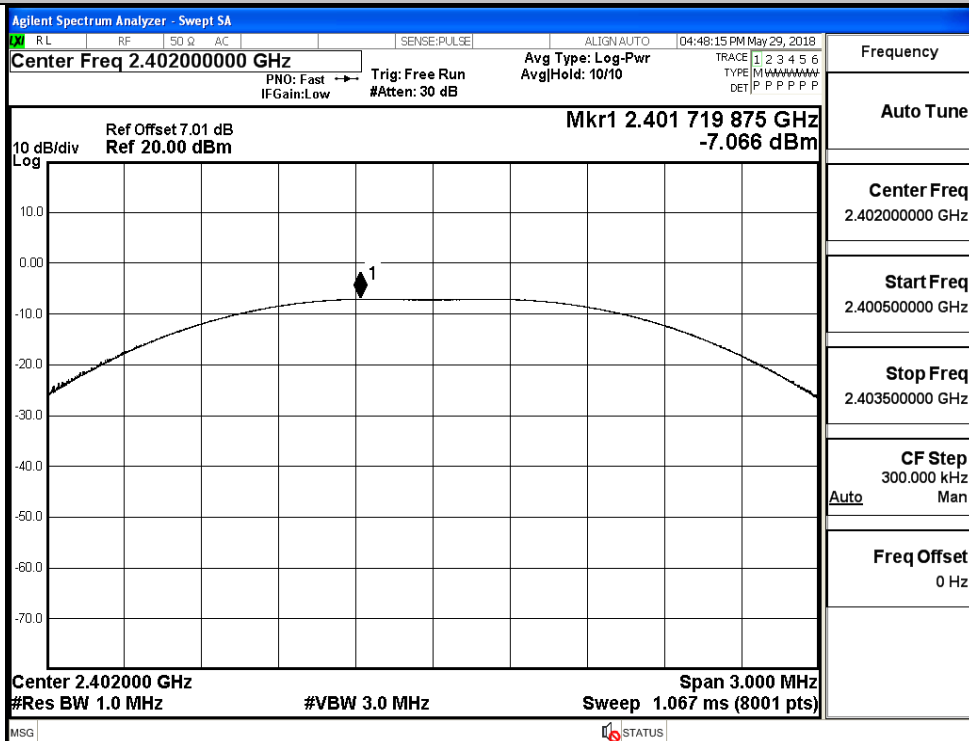


A.2 Maximum Conducted Peak Output Power

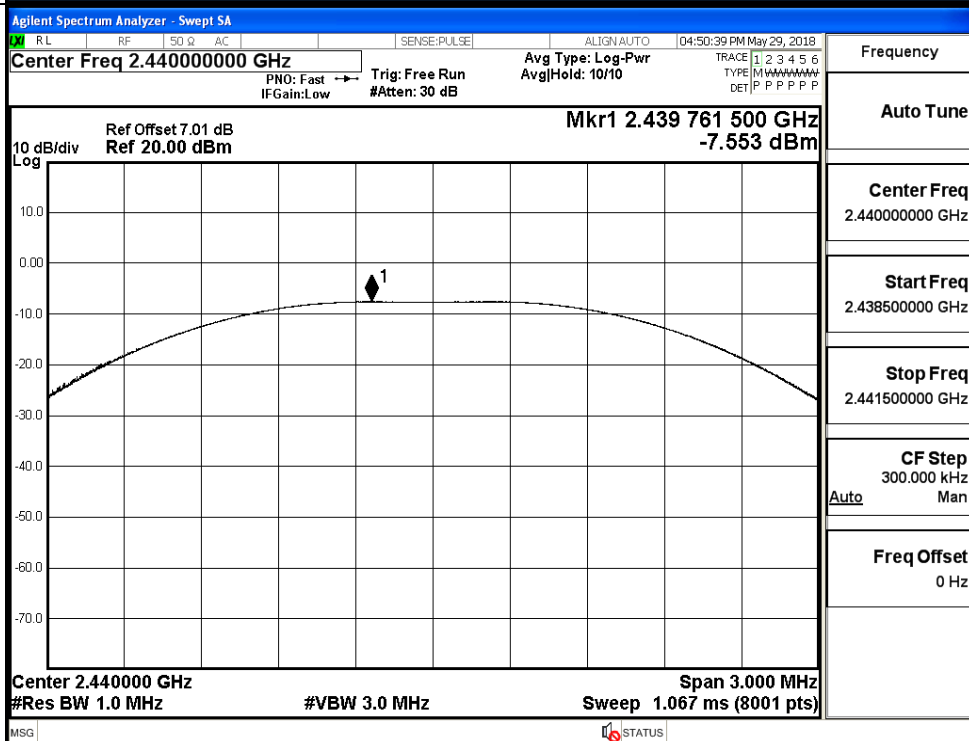
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-7.066	30	PASS
BT LE	MCH	-7.553	30	PASS
BT LE	HCH	-7.896	30	PASS

Test Graphs

LCH



MCH



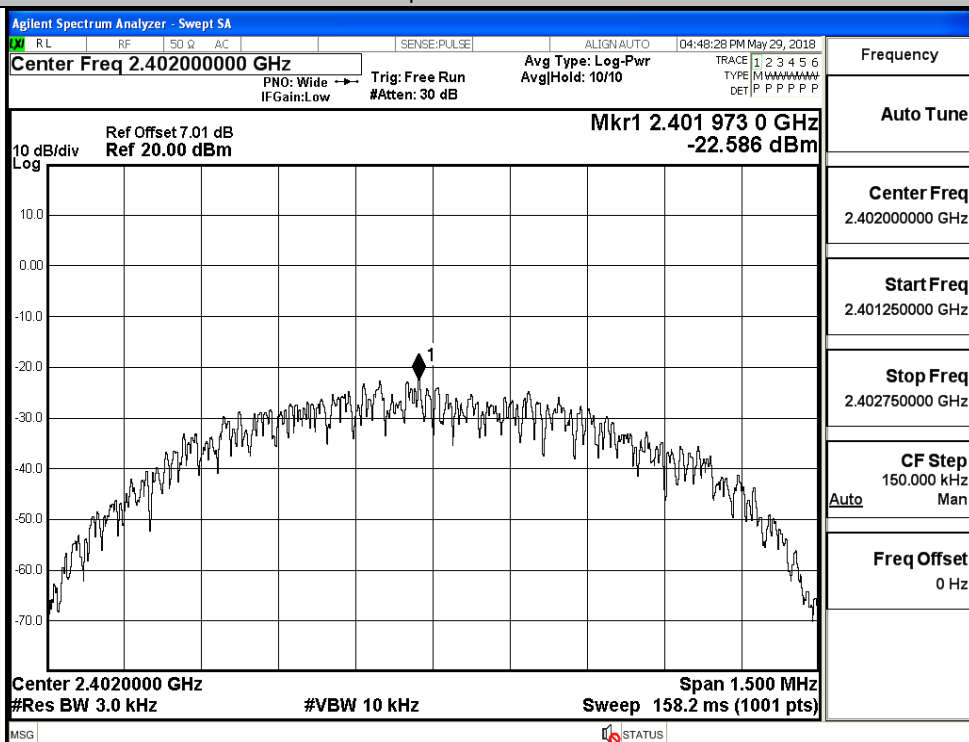


A.3 Maximum Power Spectral Density

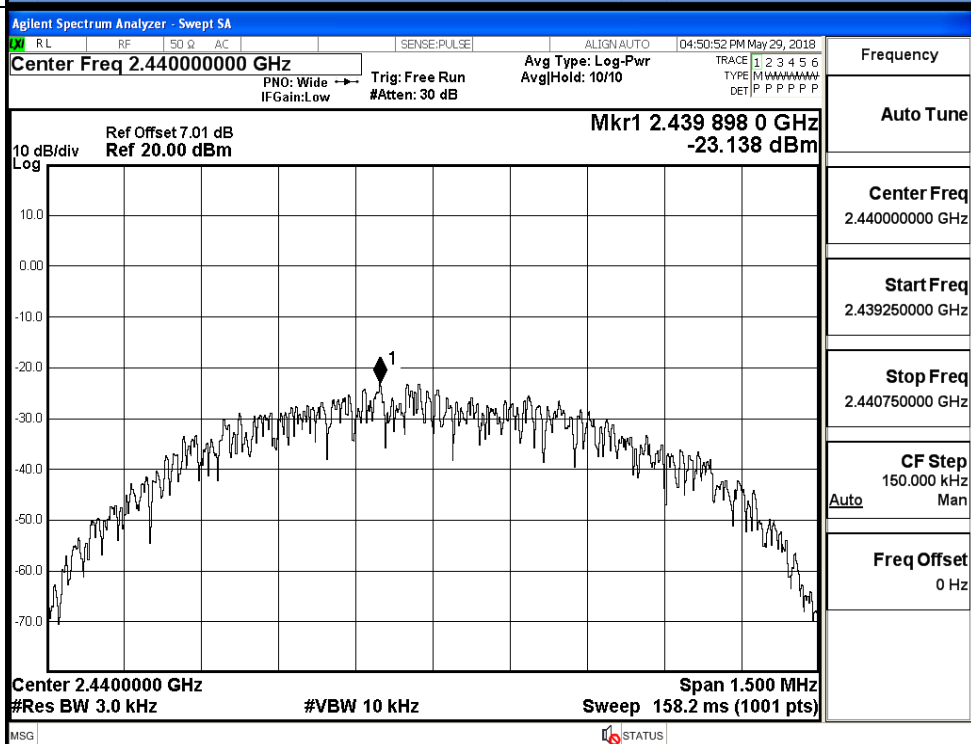
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-22.586	8	PASS
BT LE	MCH	-23.138	8	PASS
BT LE	HCH	-23.463	8	PASS

Test Graphs

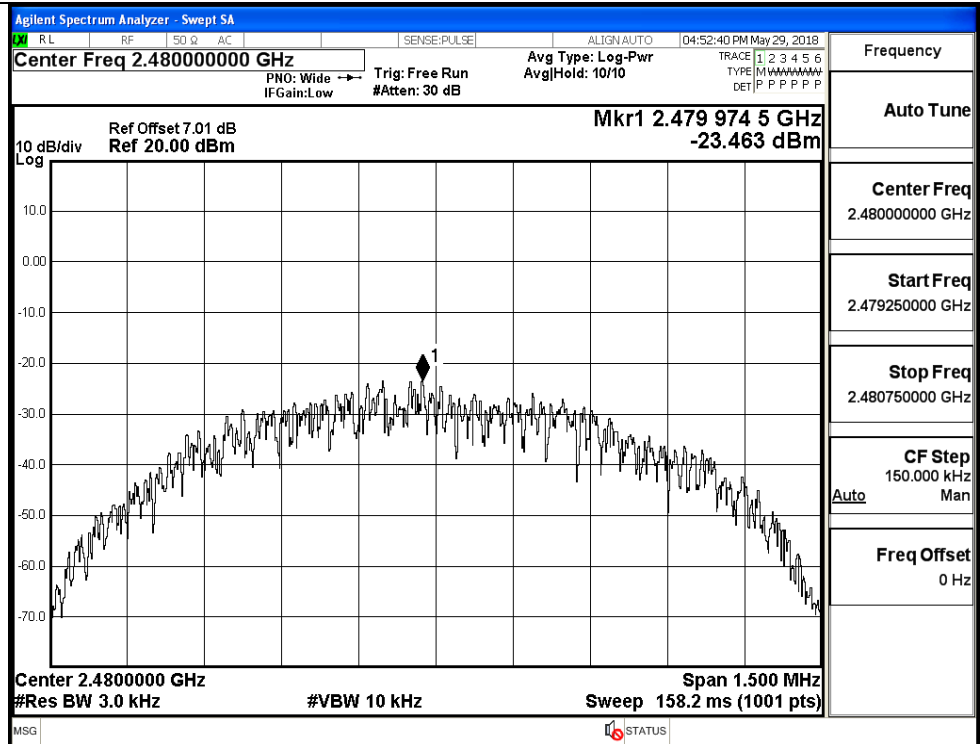
LCH



MCH



HCH

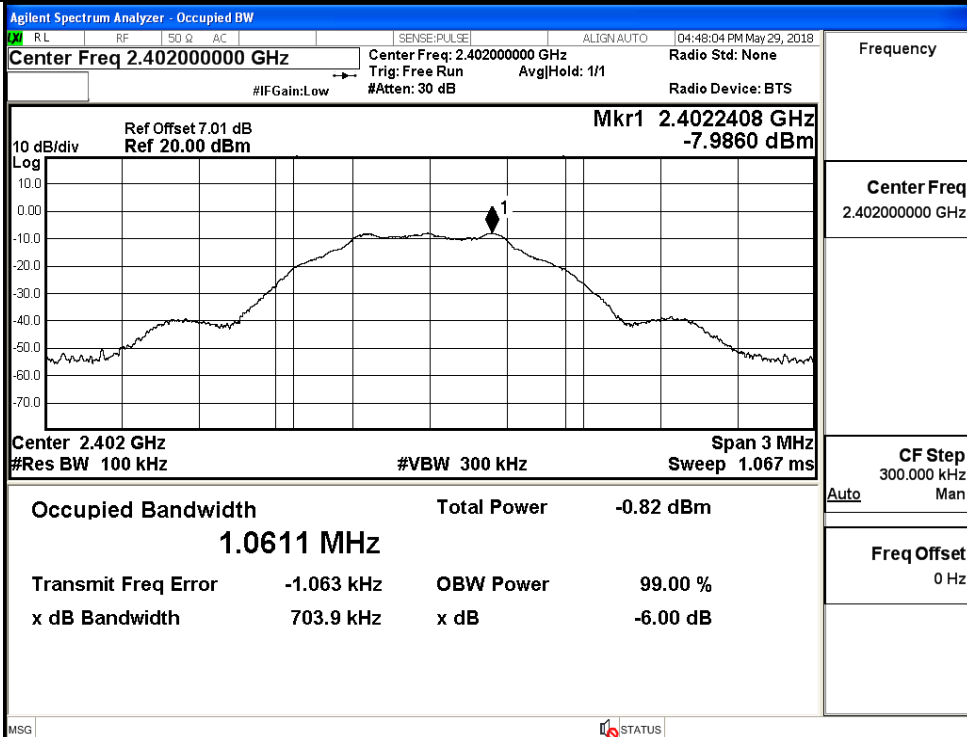


A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7039	≥ 0.5	PASS
BT LE	MCH	0.7061	≥ 0.5	PASS
BT LE	HCH	0.7107	≥ 0.5	PASS

Test Graphs

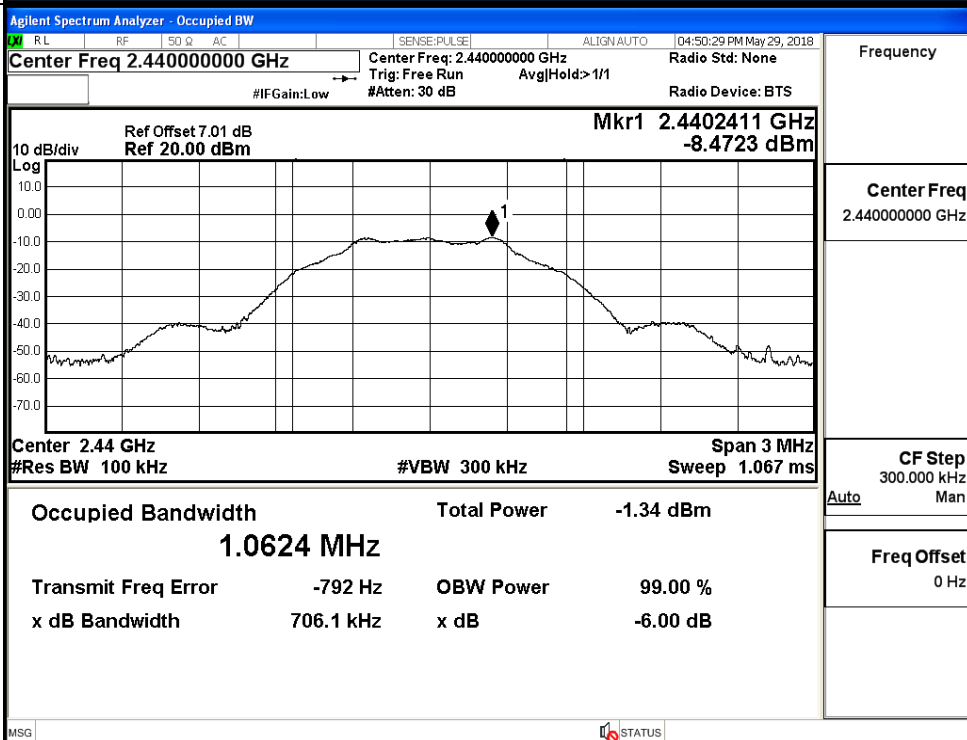
LCH



Frequency

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

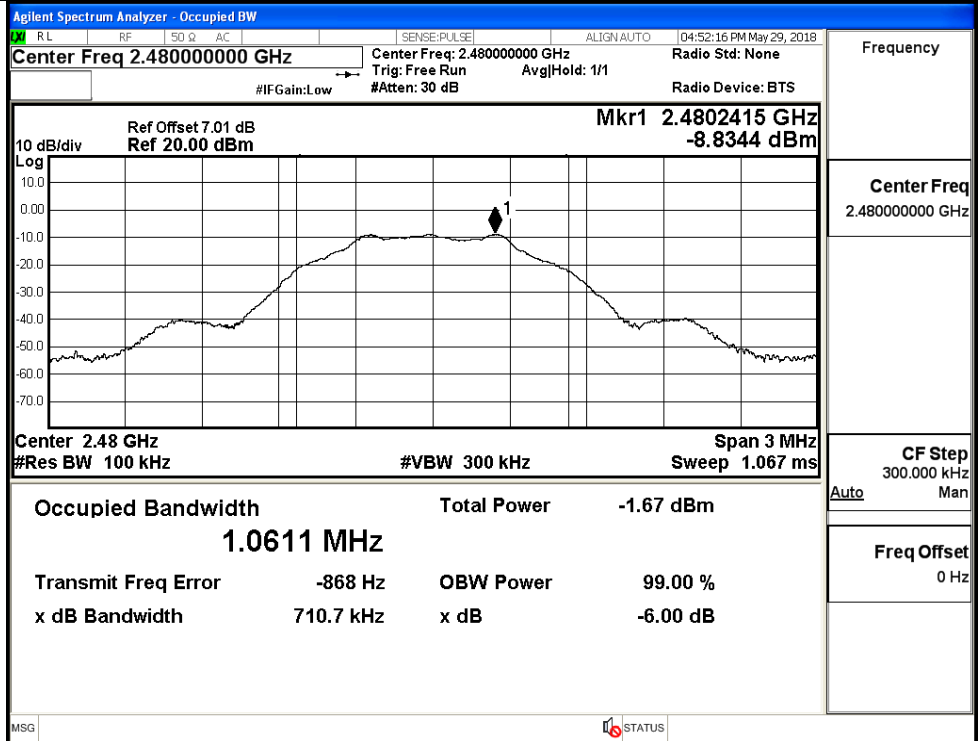
MCH



Frequency

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

HCH

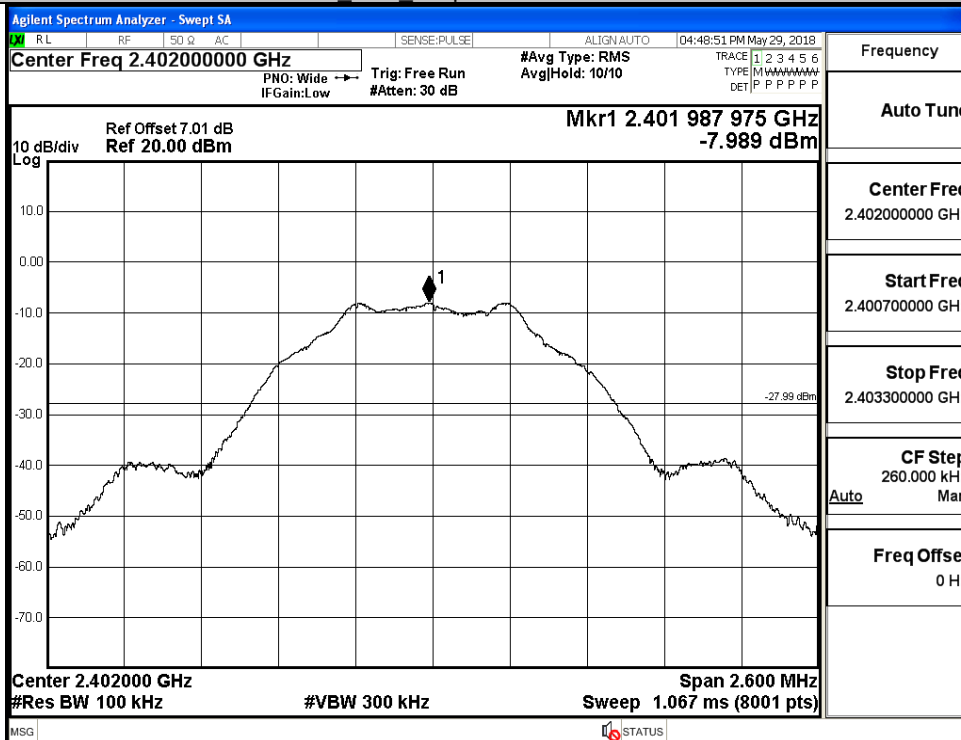


A.5 RF Conducted Spurious Emissions

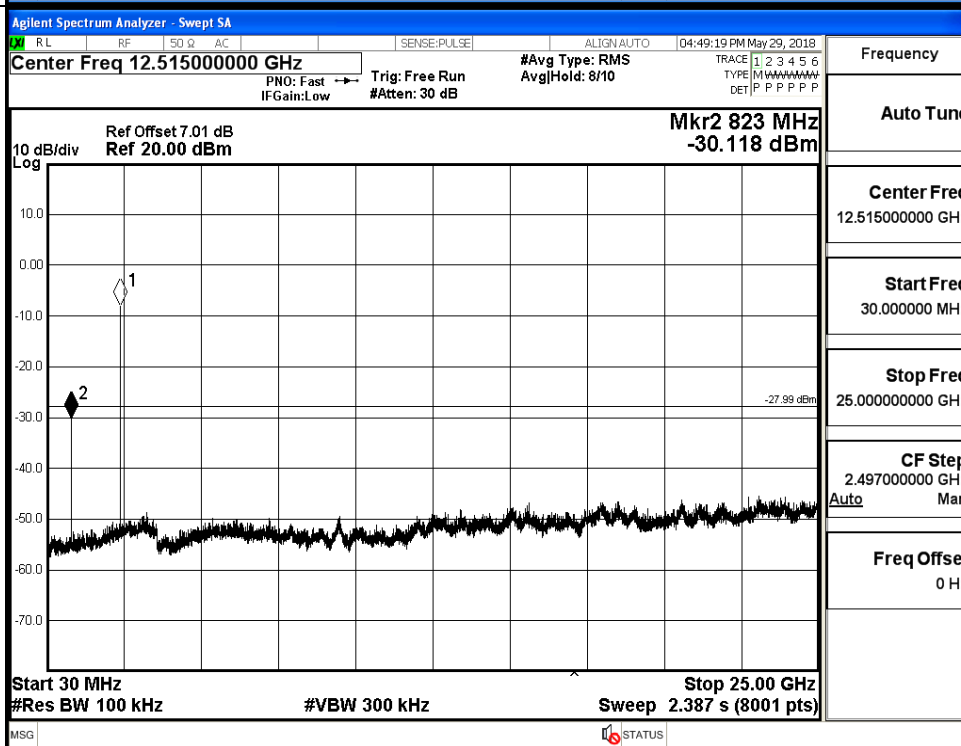
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-7.989	-30.118	-27.989	PASS
BT LE	MCH	-8.461	-33.051	-28.461	PASS
BT LE	HCH	-8.851	-29.964	-28.851	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

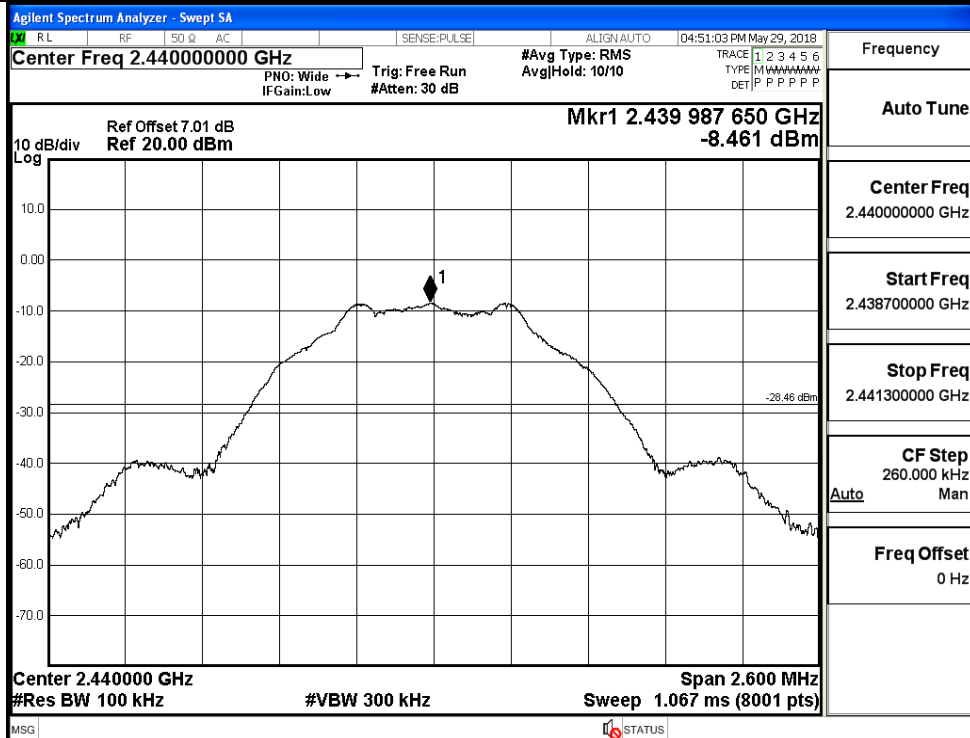


Puw/BT LE/LCH

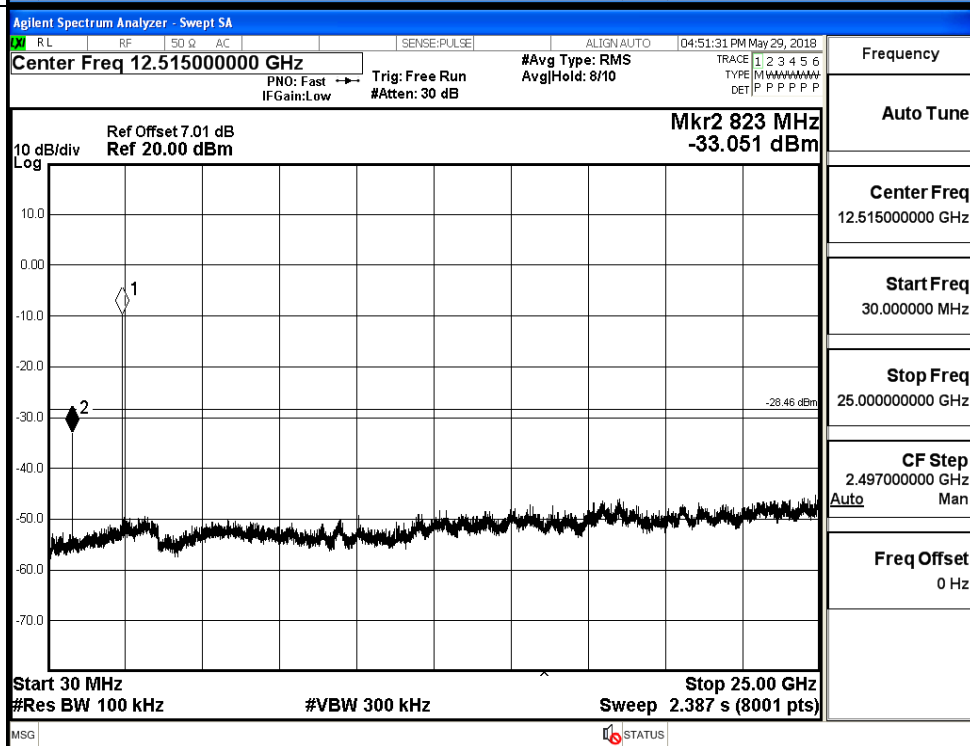


BT LE MCH Graphs

Pref/BT LE/MCH

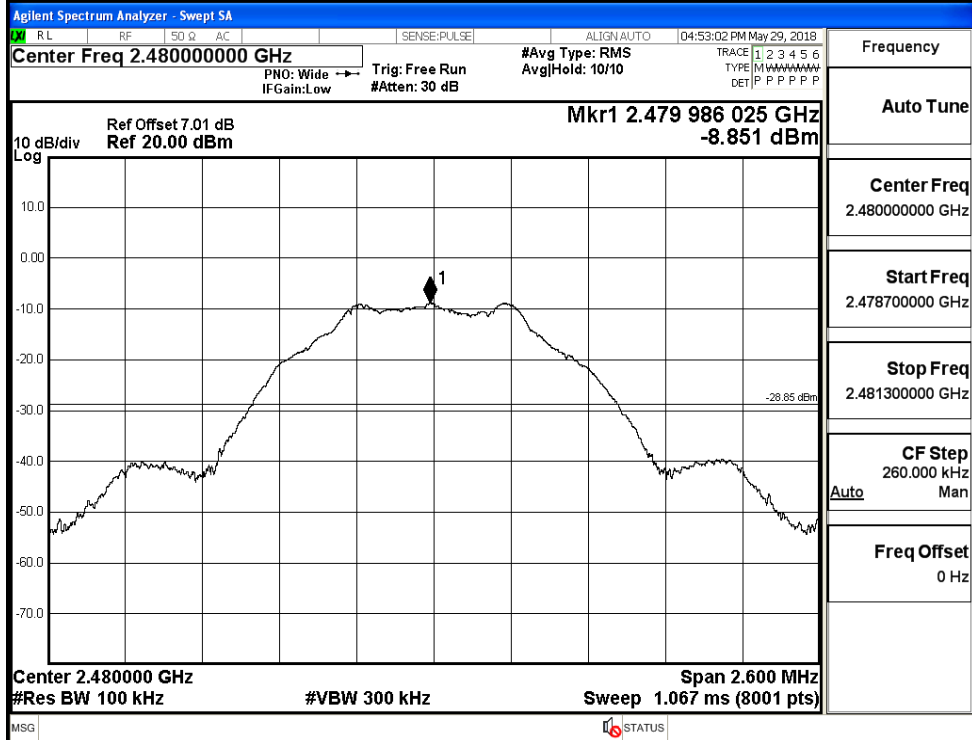


Puw/BT LE/MCH

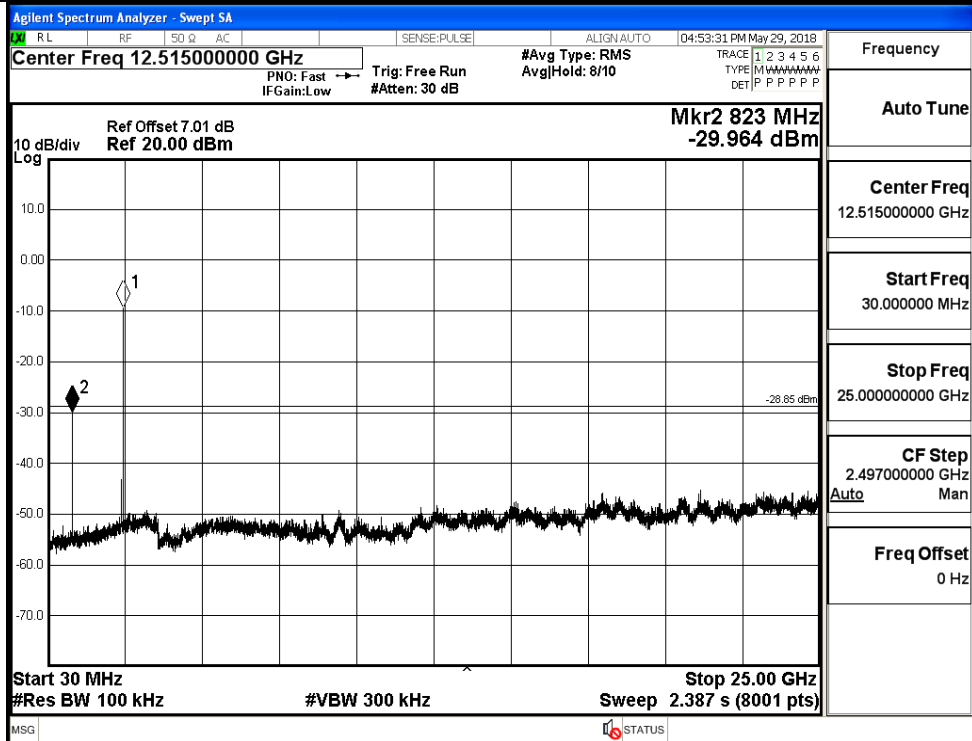


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

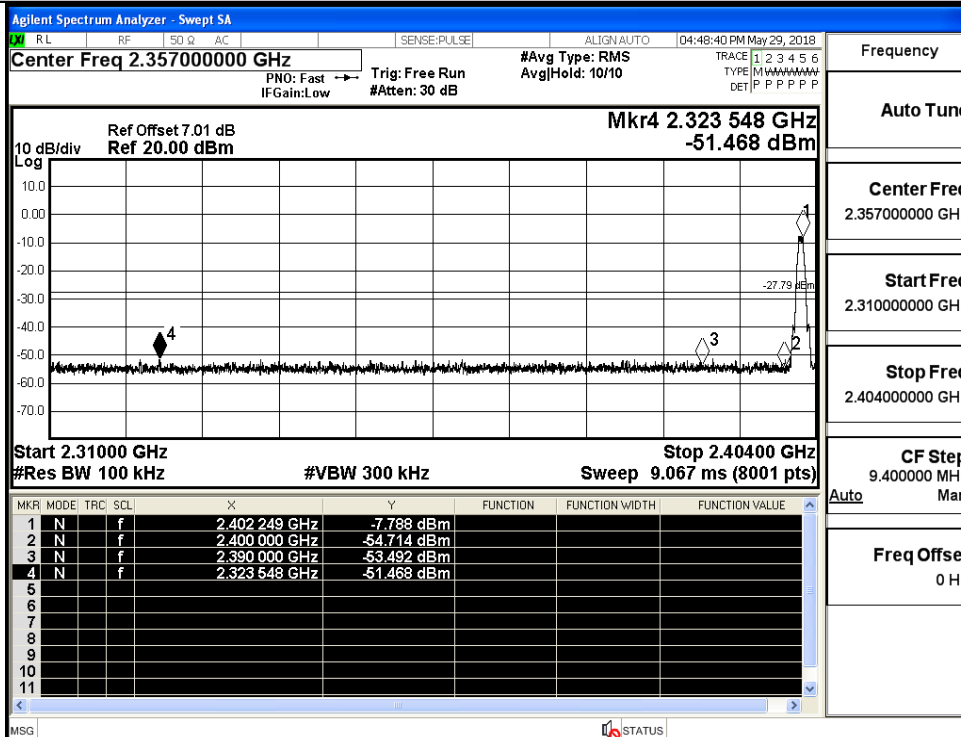


A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-7.788	-51.468	-27.79	PASS
BT LE	HCH	-8.650	-49.768	-28.65	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

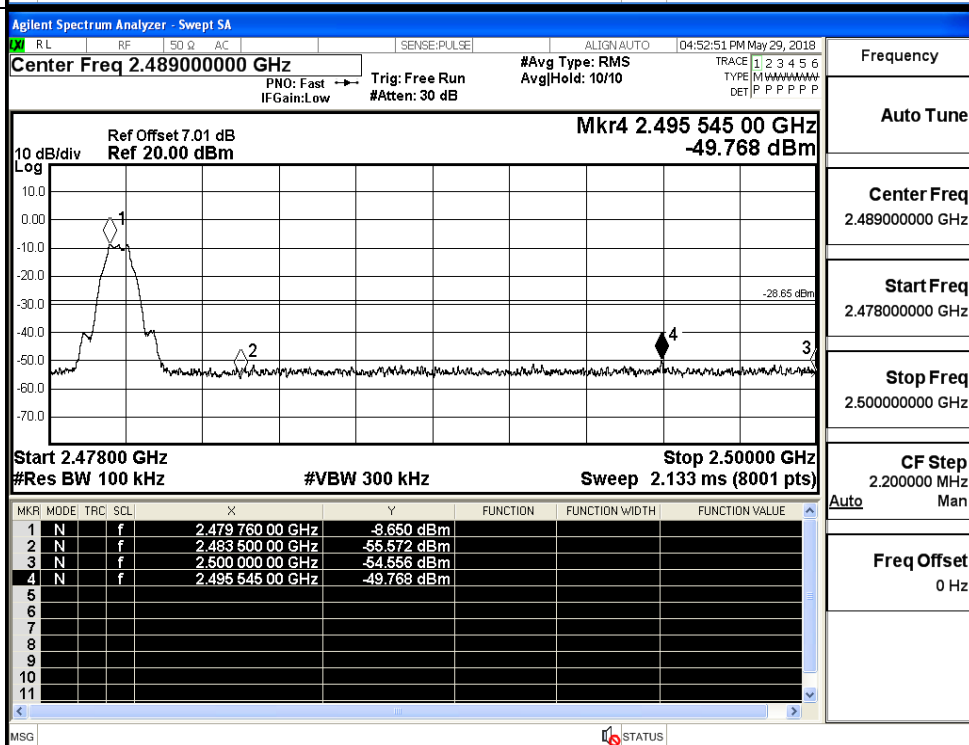
9.400000 MHz

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

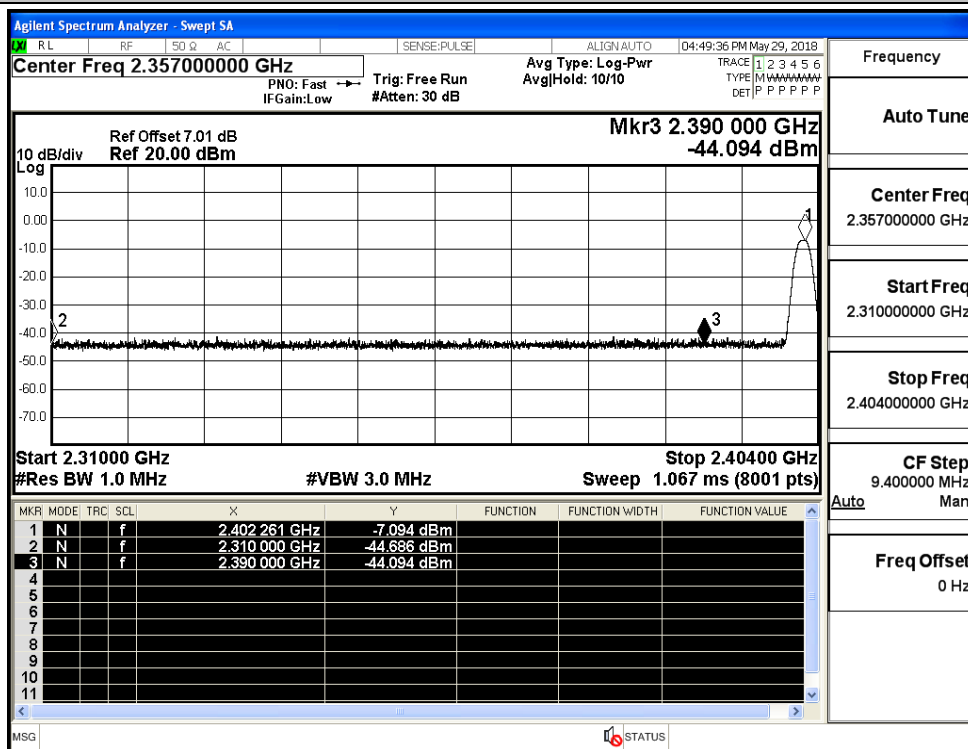
Freq Offset

0 Hz

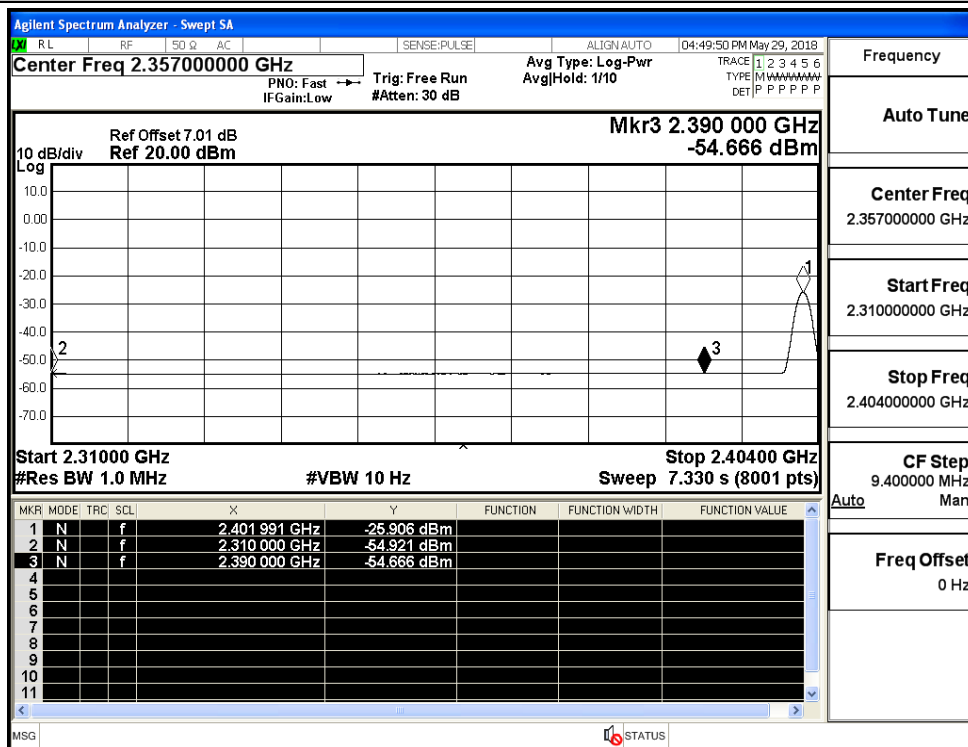
A.7 Restrict-band band-edge measurements

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	-44.69	5.0	0	55.54	PEAK	74	PASS
		Ant1	2310.0	-54.92	5.0	0	45.31	AV	54	PASS
		Ant1	2390.0	-44.09	5.0	0	56.14	PEAK	74	PASS
		Ant1	2390.0	-54.67	5.0	0	45.56	AV	54	PASS
	2480	Ant1	2483.5	-42.15	5.0	0	58.08	PEAK	74	PASS
		Ant1	2483.5	-54.45	5.0	0	45.78	AV	54	PASS
		Ant1	2500.0	-43.34	5.0	0	56.89	PEAK	74	PASS
		Ant1	2500.0	-54.28	5.0	0	45.95	AV	54	PASS

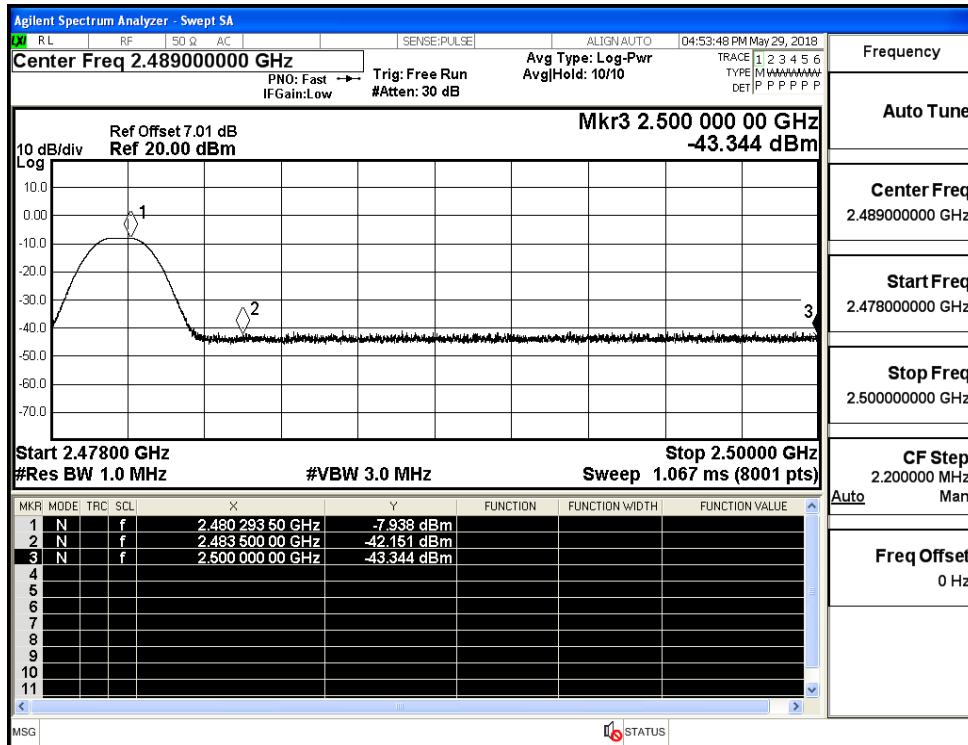
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

