

Appendix A

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

Product Name: Pod Module

Trade Mark: Niraxx

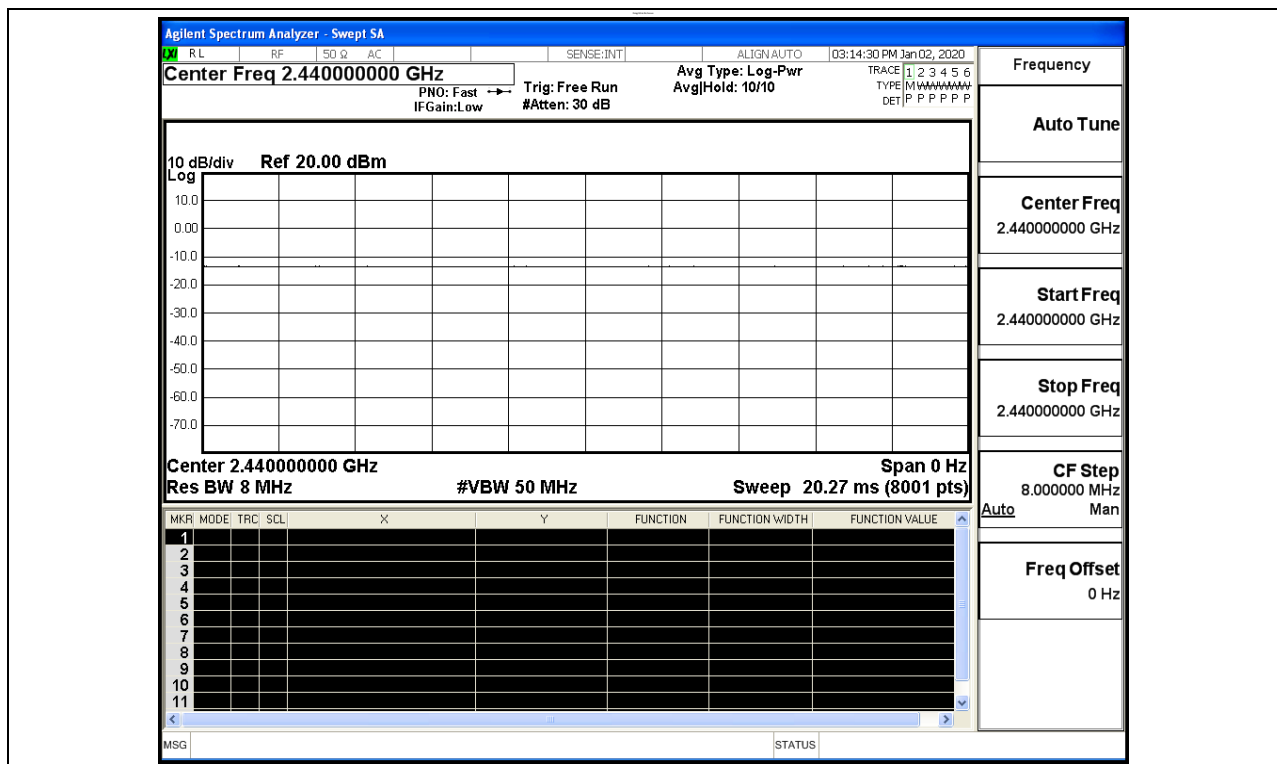
Test Model: G1

Environmental Conditions

Temperature:	24.1°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Qu Xin
Supervised by:	Wang Chuang

A.1 Duty Cycle

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

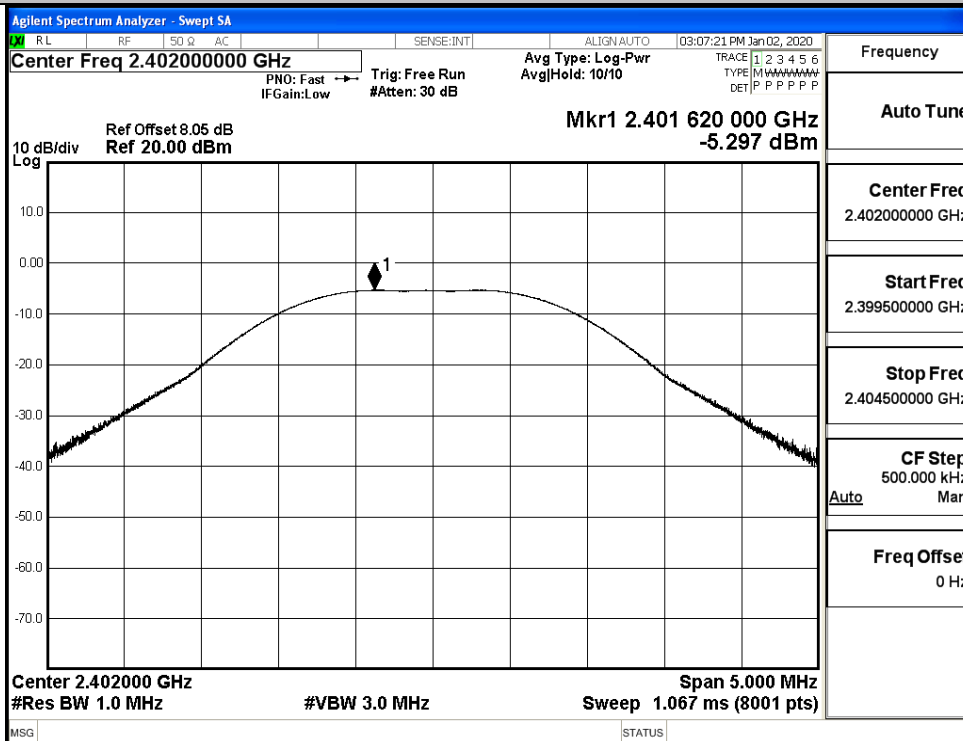


A.2 Maximum Conducted Peak Output Power

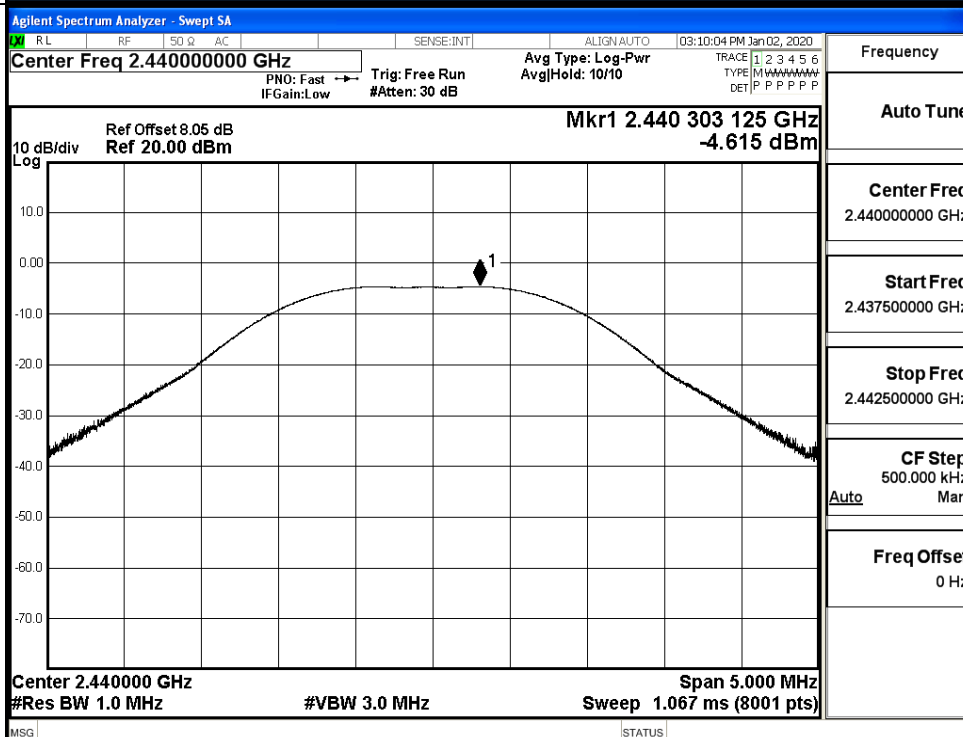
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-5.297	30	PASS
BT LE	MCH	-4.615	30	PASS
BT LE	HCH	-4.165	30	PASS

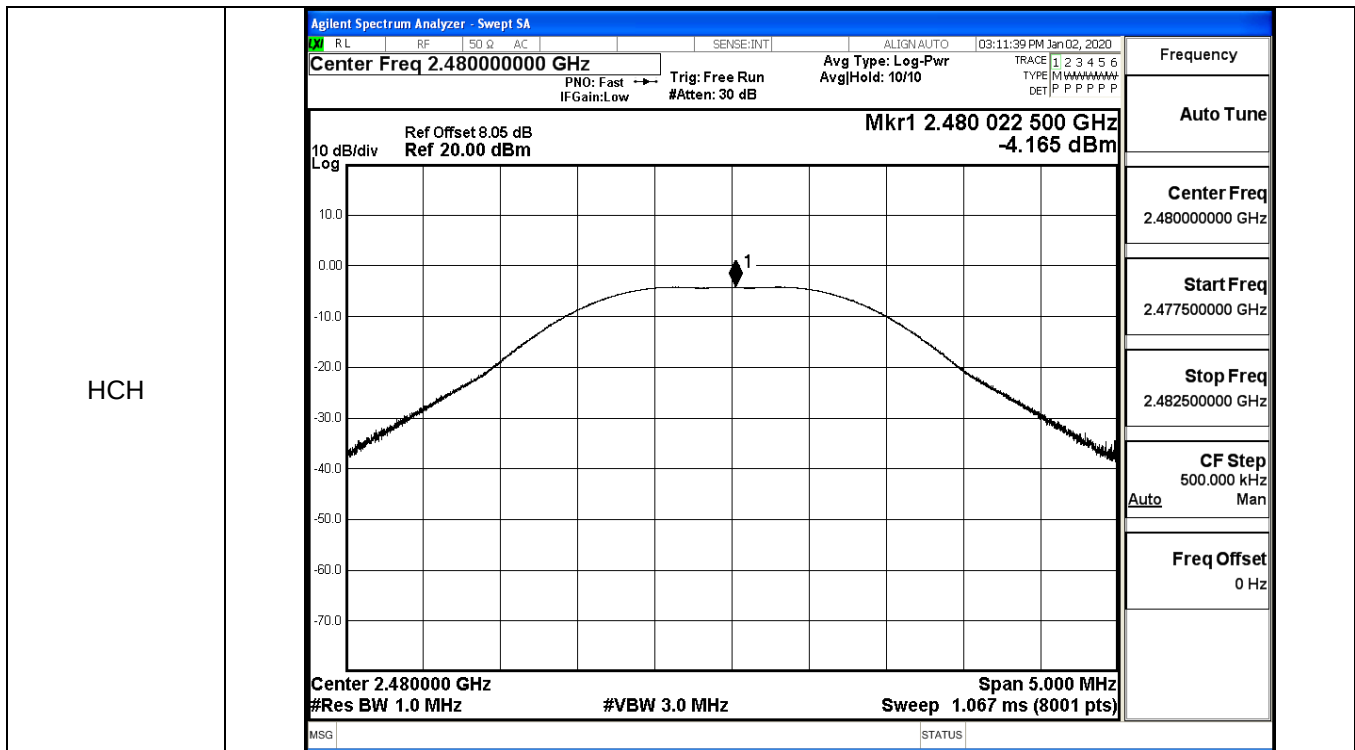
Test Graphs

LCH



MCH



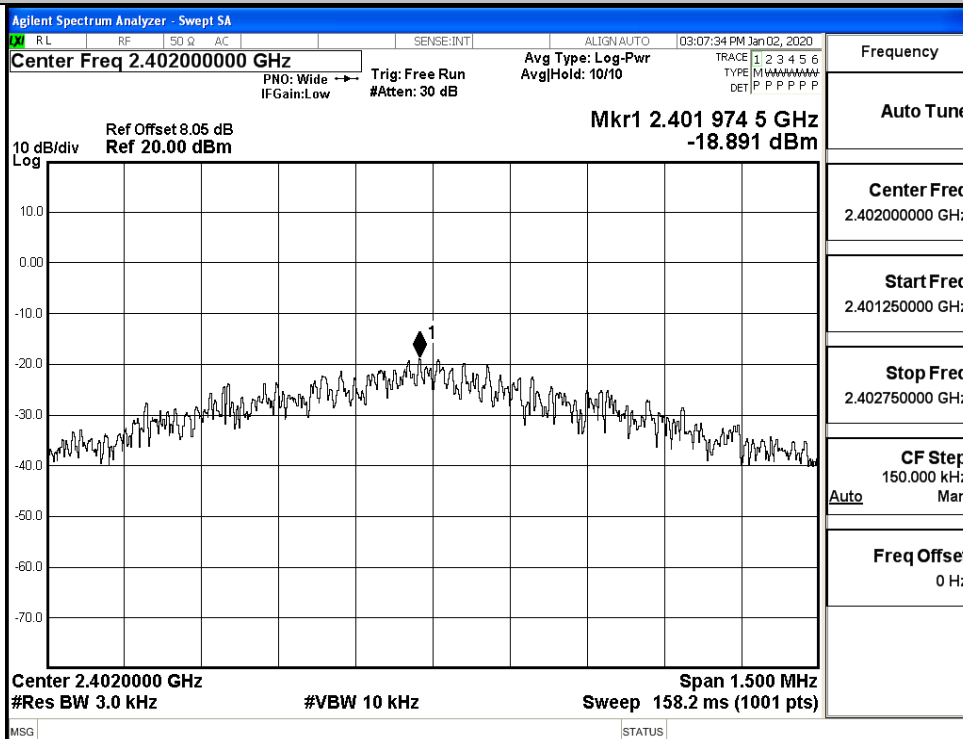


A.3 Maximum Power Spectral Density

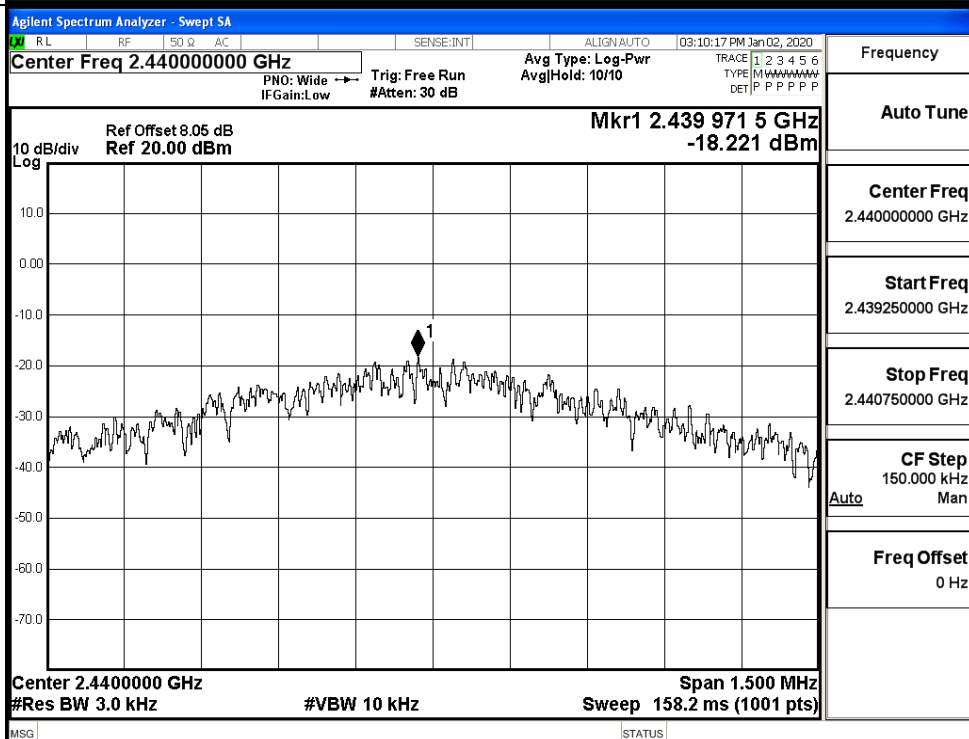
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-18.891	8	PASS
BT LE	MCH	-18.221	8	PASS
BT LE	HCH	-17.475	8	PASS

Test Graphs

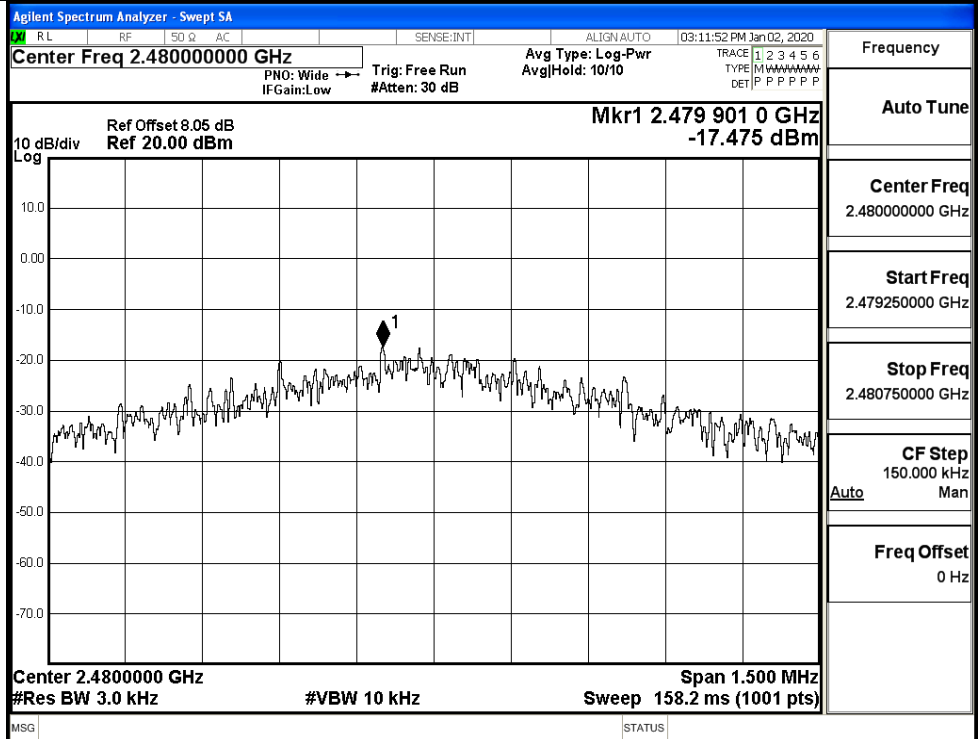
LCH



MCH



HCH

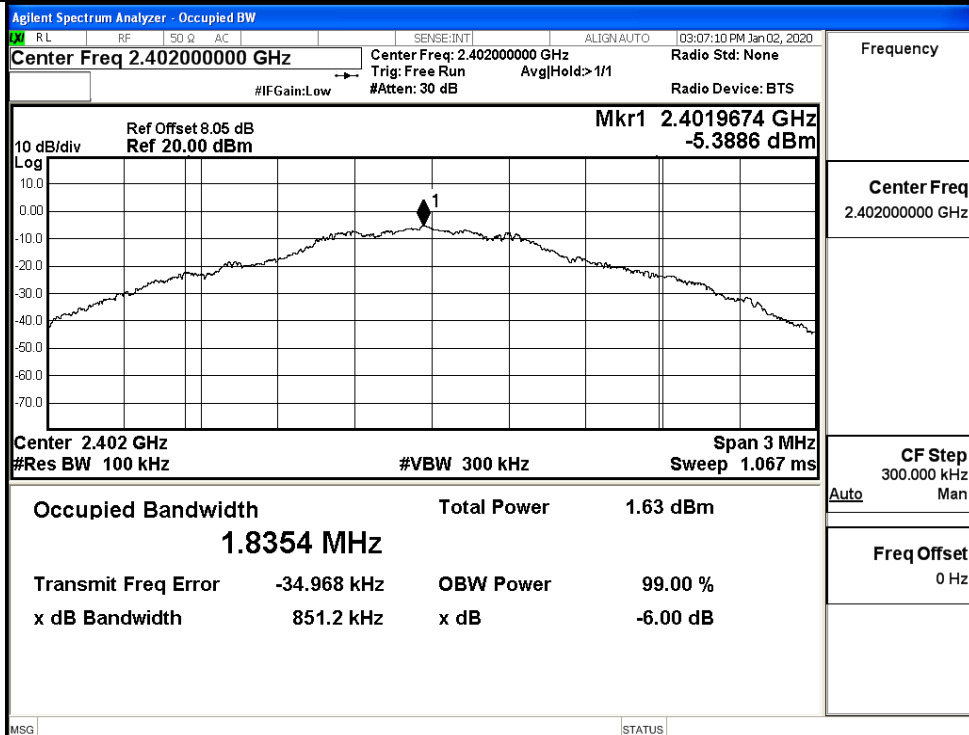


A.4 6dB Bandwidth

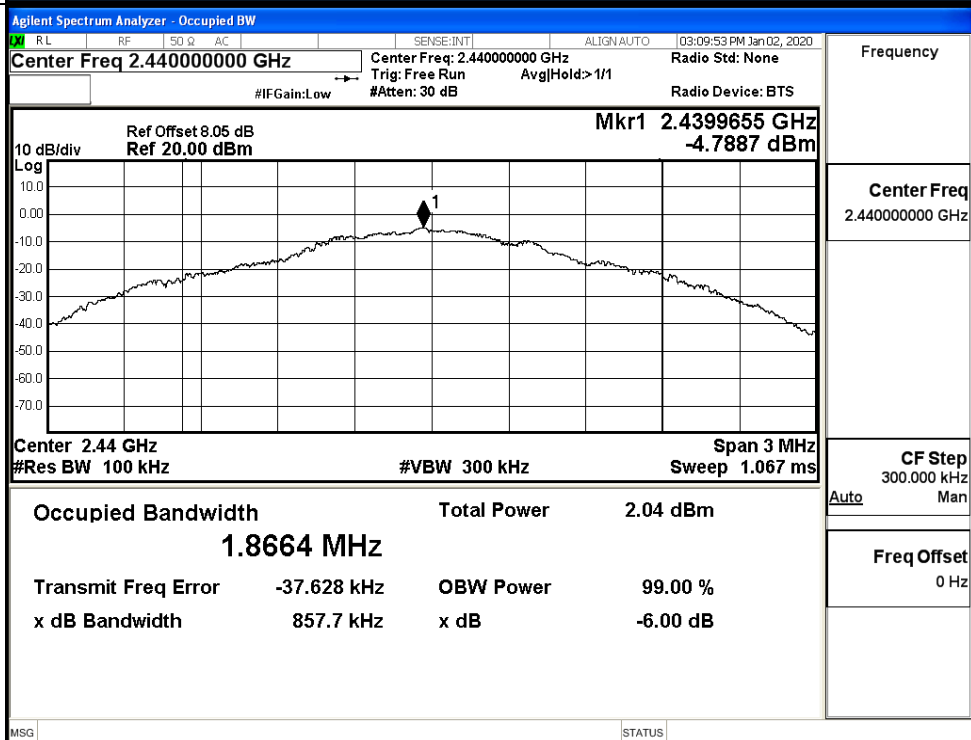
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.8512	≥ 0.5	PASS
BT LE	MCH	0.8577	≥ 0.5	PASS
BT LE	HCH	0.8498	≥ 0.5	PASS

Test Graphs

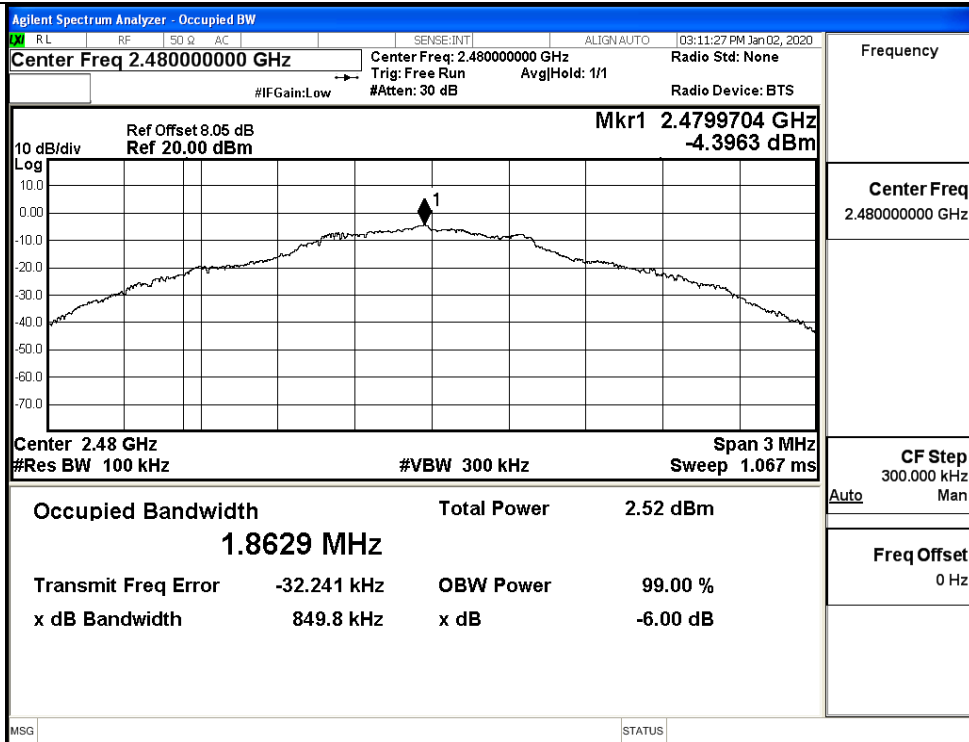
LCH



MCH



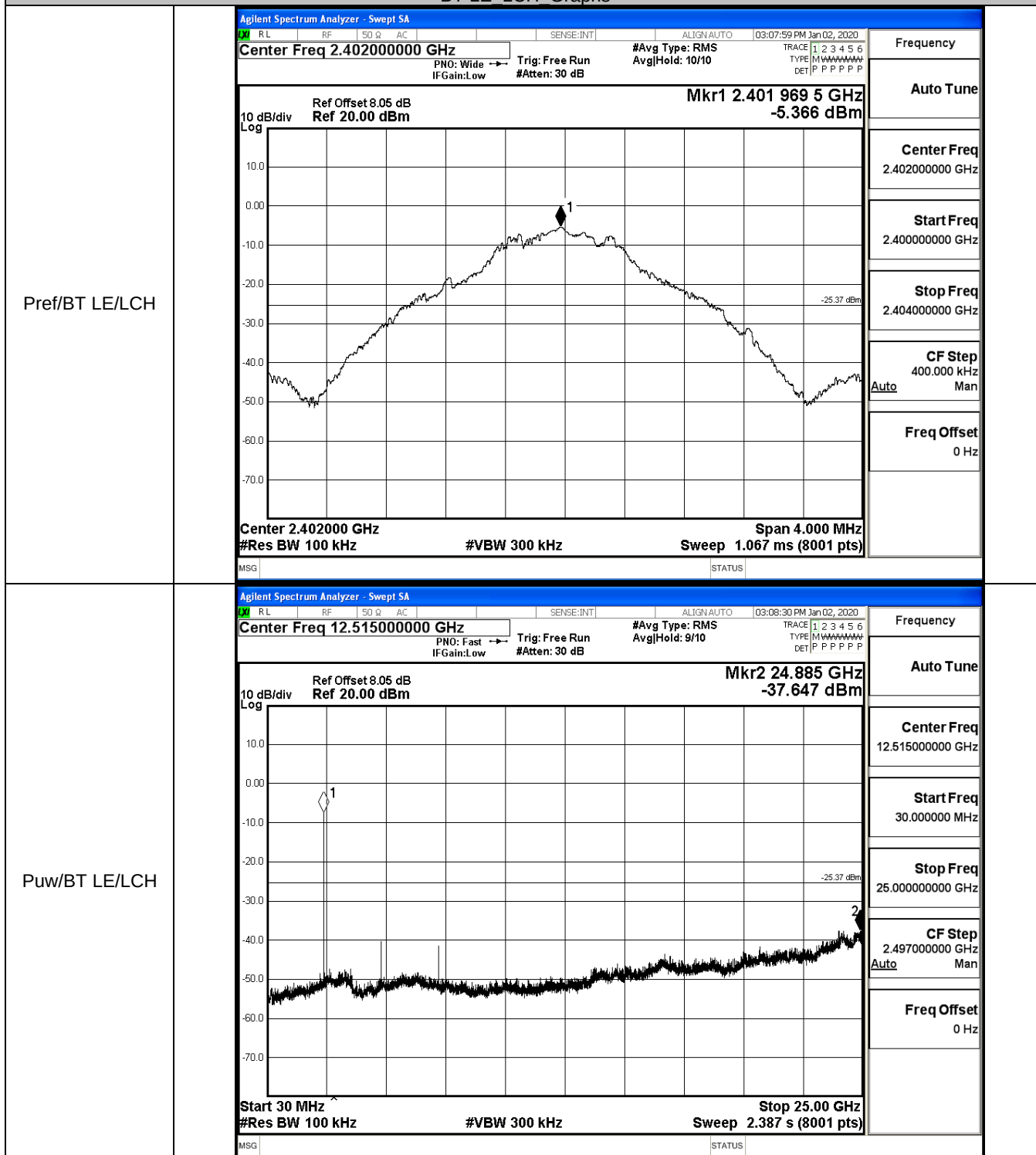
HCH



A.5 RF Conducted Spurious Emissions

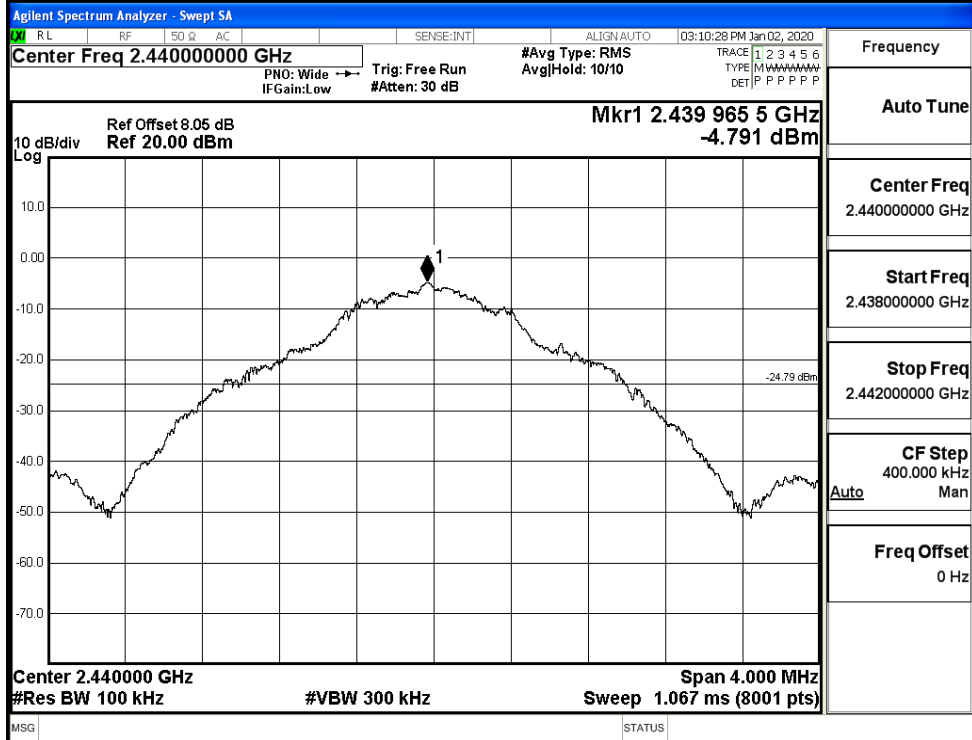
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-5.366	-37.647	-25.366	PASS
BT LE	MCH	-4.791	-37.194	-24.791	PASS
BT LE	HCH	-4.373	-36.556	-24.373	PASS

BT LE LCH Graphs

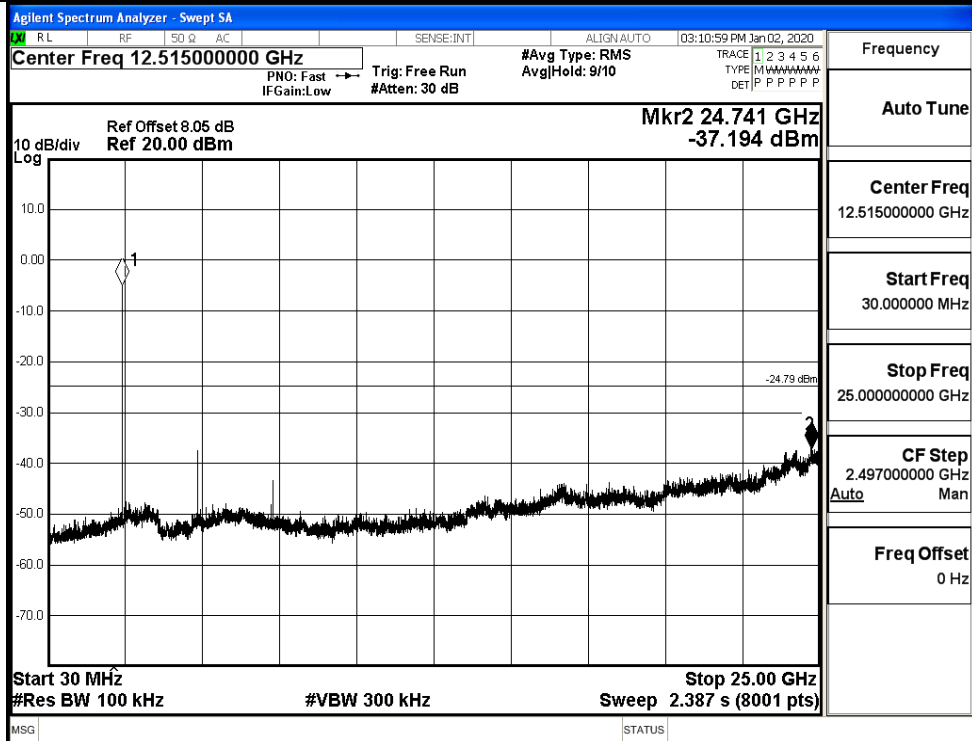


BT LE MCH Graphs

Pref/BT LE/MCH

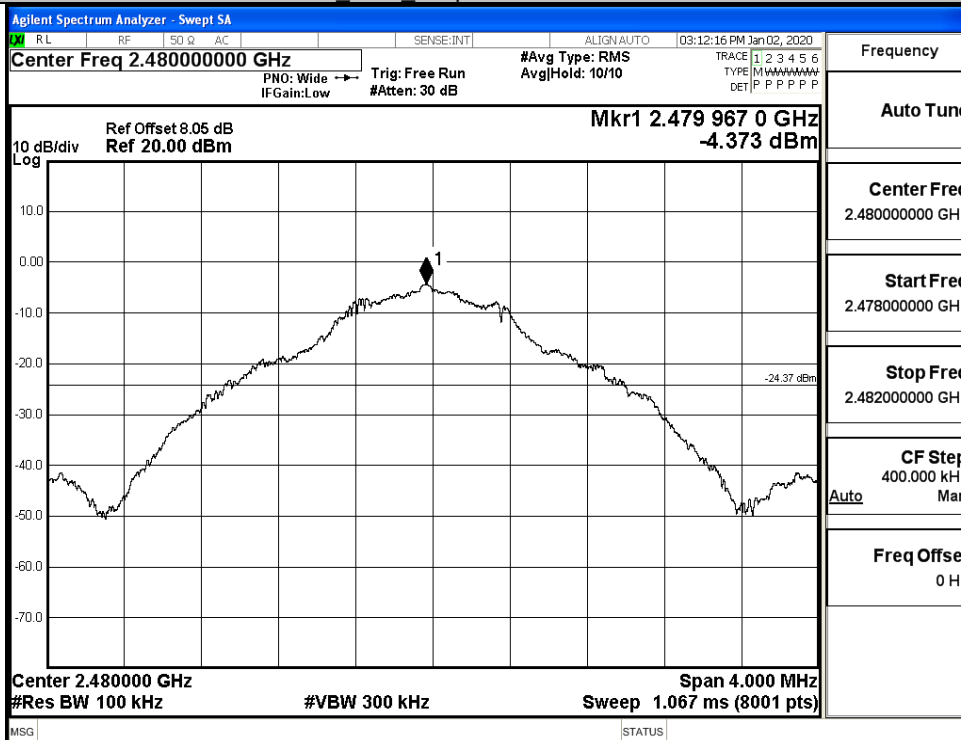


Puw/BT LE/MCH

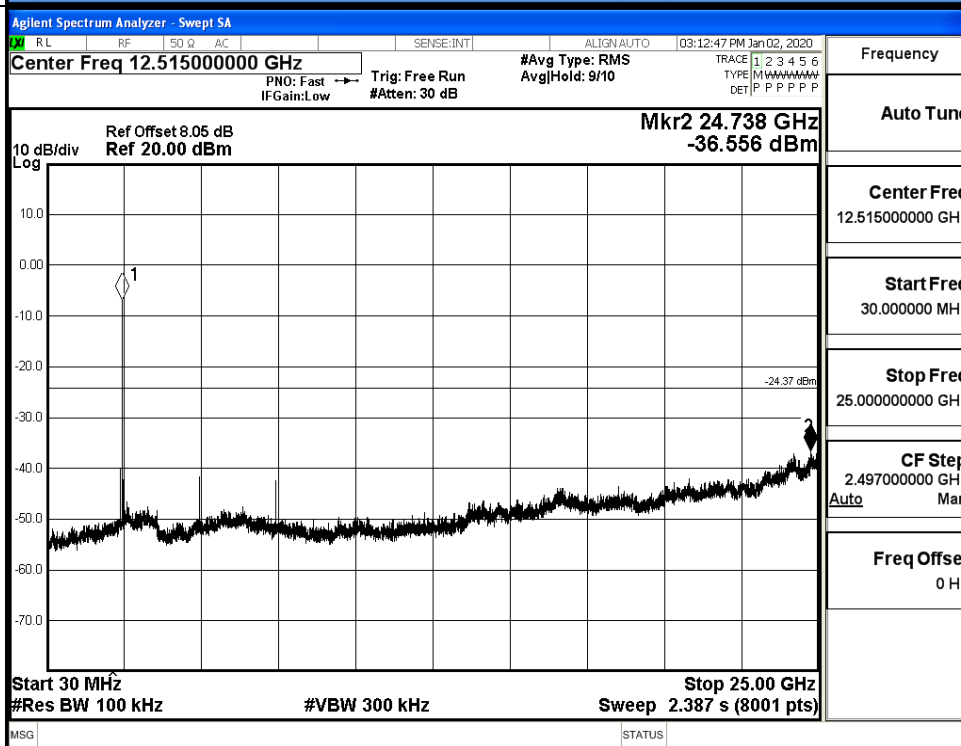


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

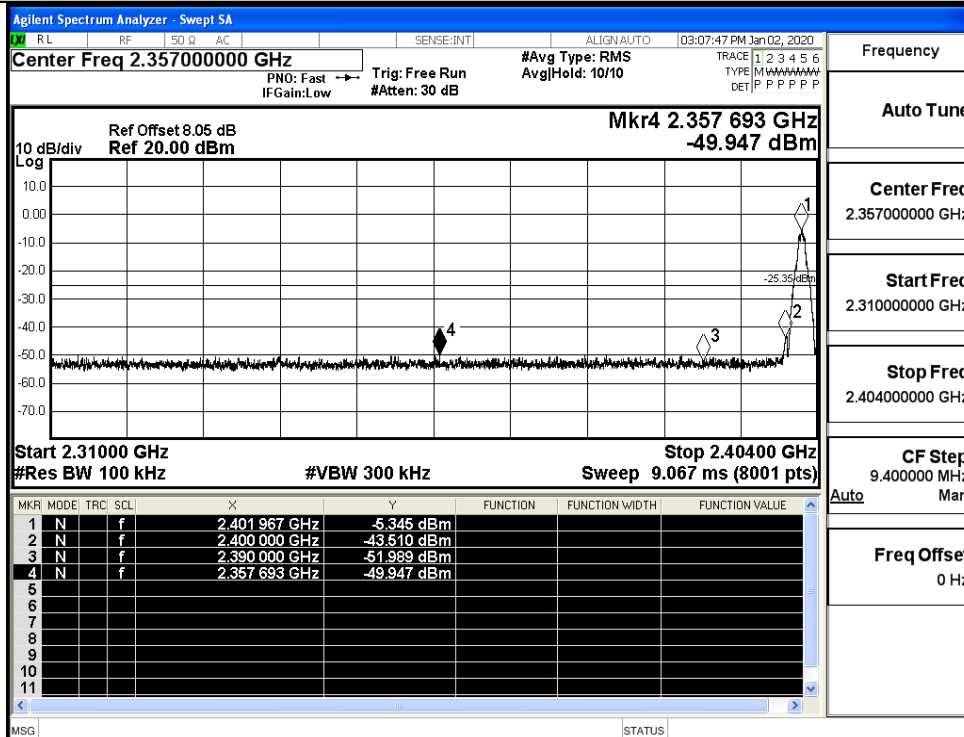


A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-5.345	-49.947	-25.35	PASS
BT LE	HCH	-4.443	-47.805	-24.44	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

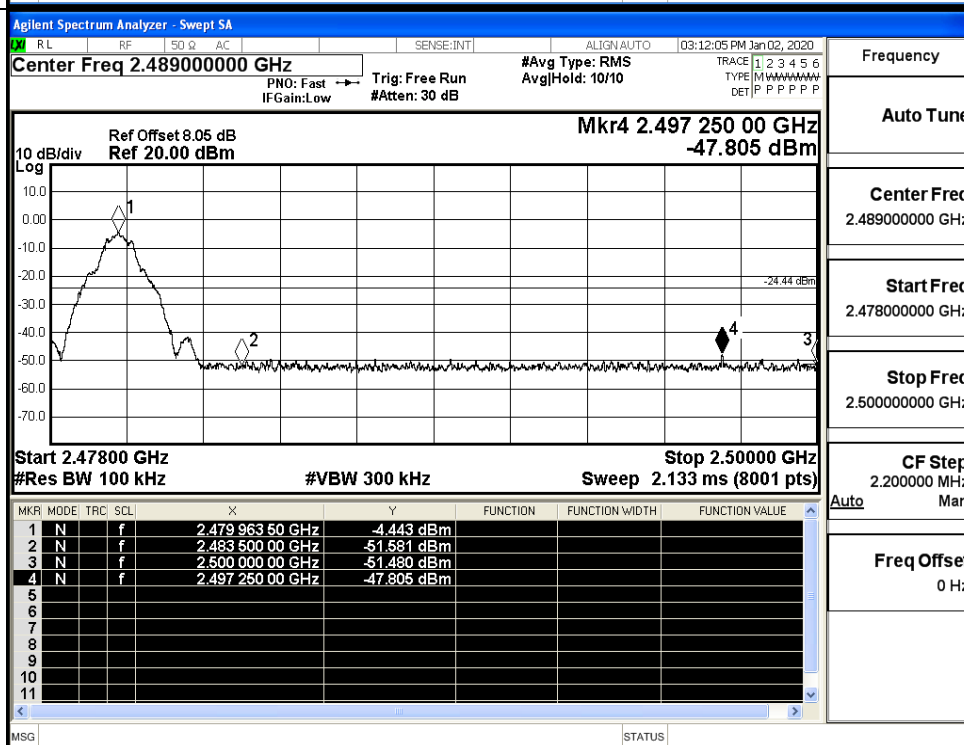
9.400000 MHz

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

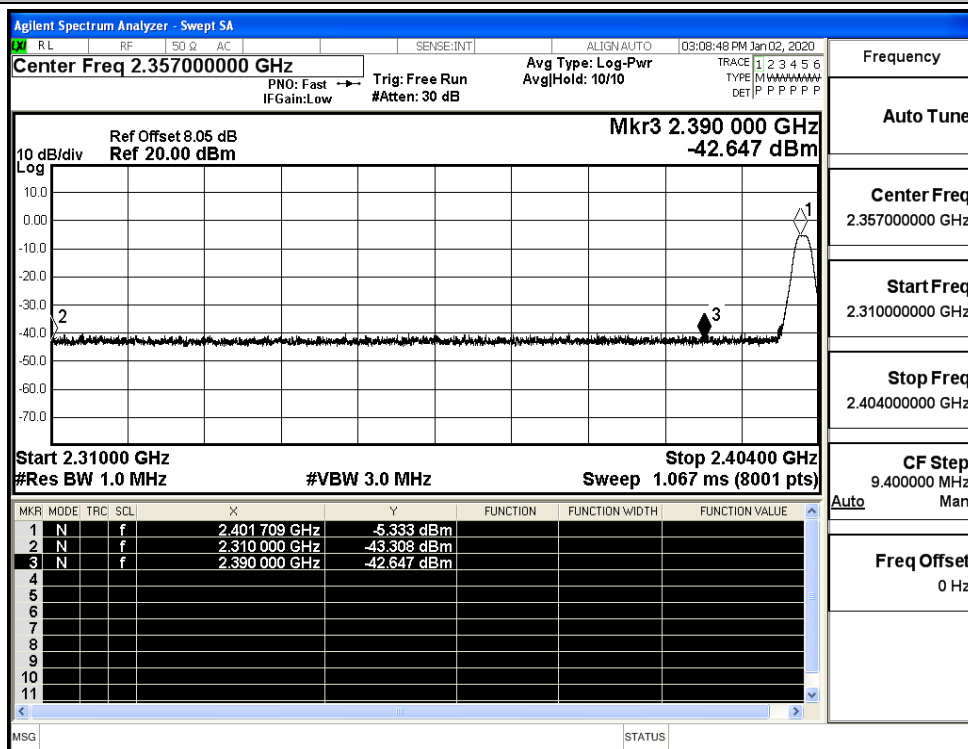
Freq Offset

0 Hz

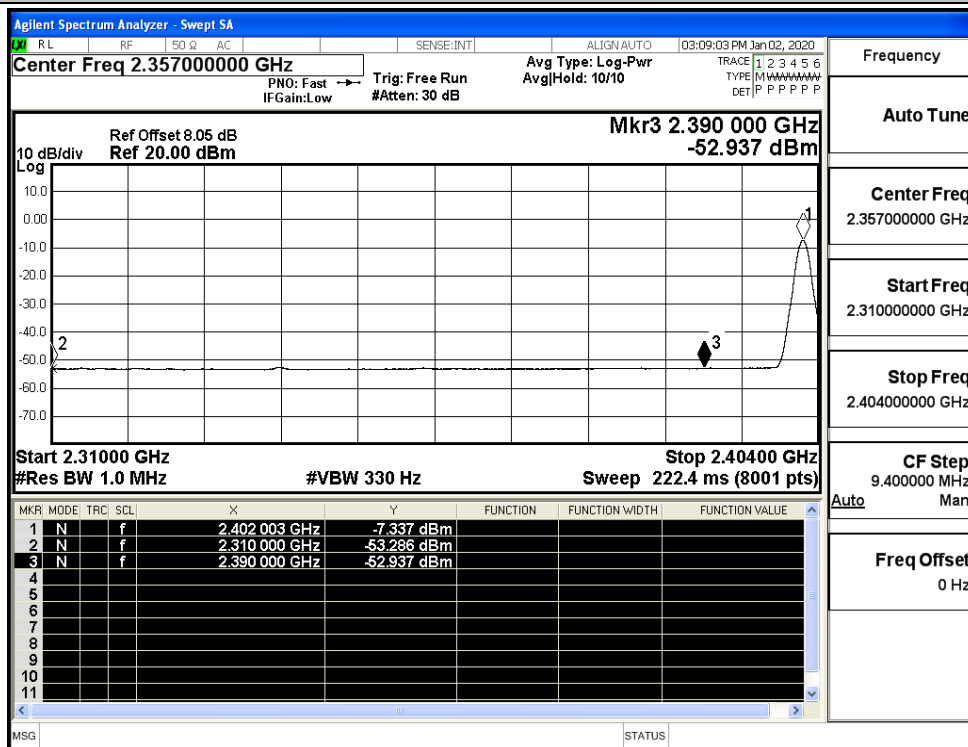
A.7 Restrict-band band-edge measurements

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	-43.31	2.0	0	53.95	PEAK	74	PASS
		Ant1	2310.0	-53.29	2.0	0	43.97	AV	54	PASS
		Ant1	2390.0	-42.65	2.0	0	54.61	PEAK	74	PASS
		Ant1	2390.0	-52.94	2.0	0	44.32	AV	54	PASS
	2480	Ant1	2483.5	-41.08	2.0	0	56.17	PEAK	74	PASS
		Ant1	2483.5	-52.10	2.0	0	45.15	AV	54	PASS
		Ant1	2500.0	-43.27	2.0	0	53.98	PEAK	74	PASS
		Ant1	2500.0	-52.38	2.0	0	44.88	AV	54	PASS

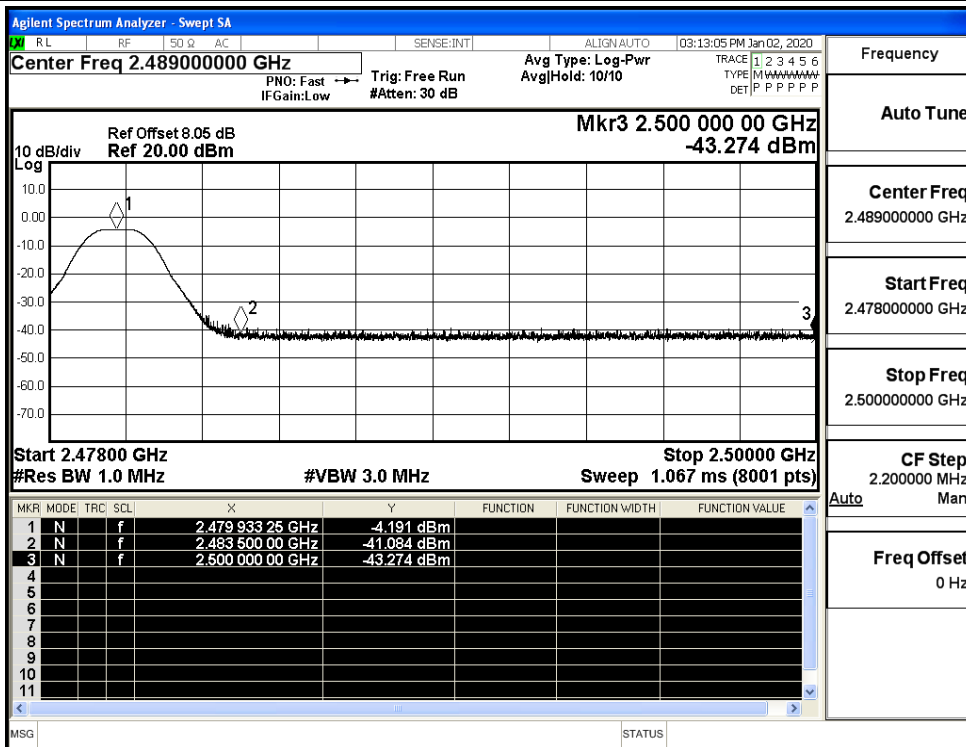
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

