

Appendix A

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

Product Name: PD20

Trade Mark: N/A

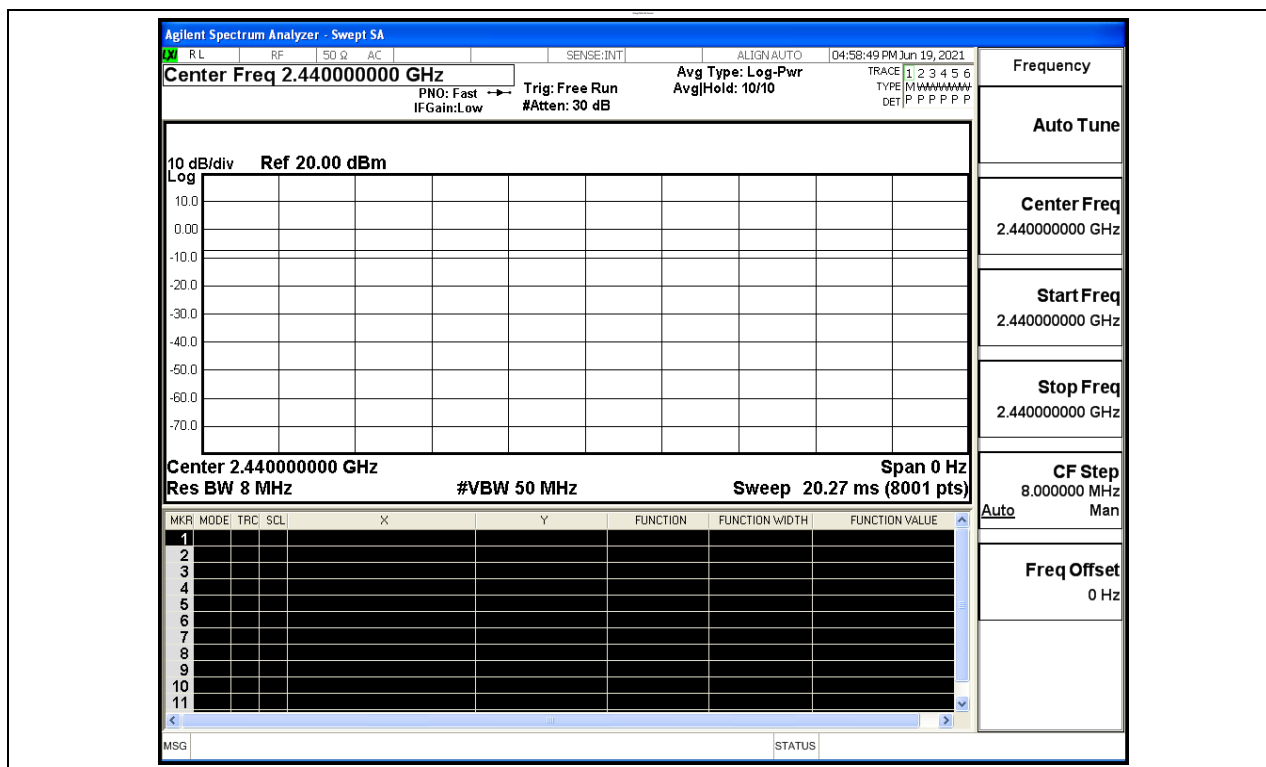
Test Model: PD20

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan

A.1 Duty Cycle

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

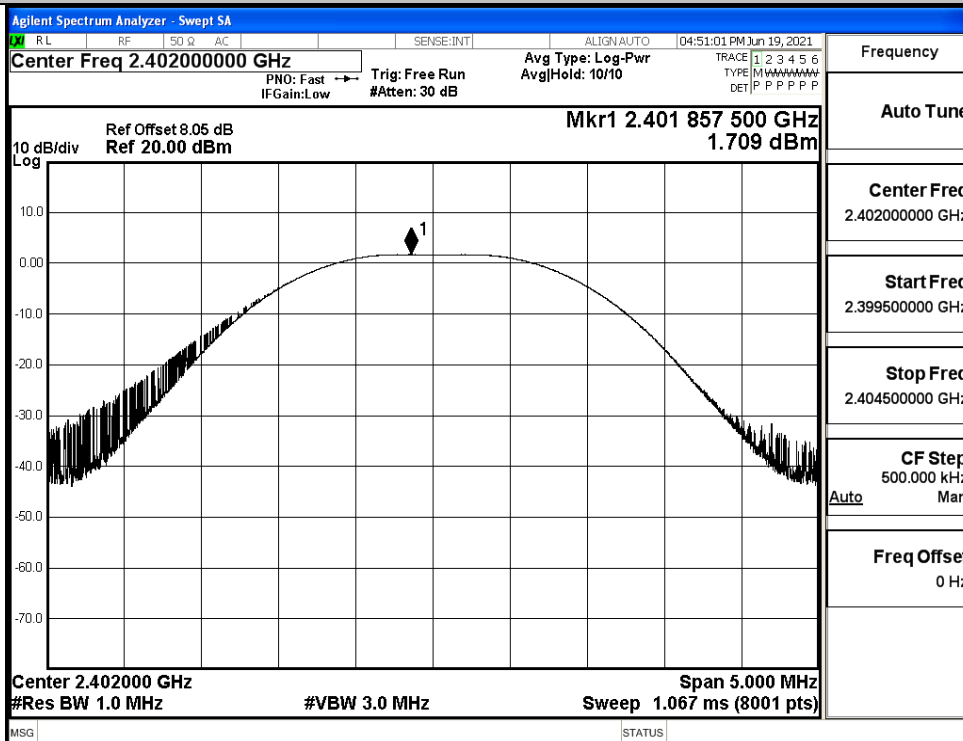


A.2 Maximum Conducted Peak Output Power

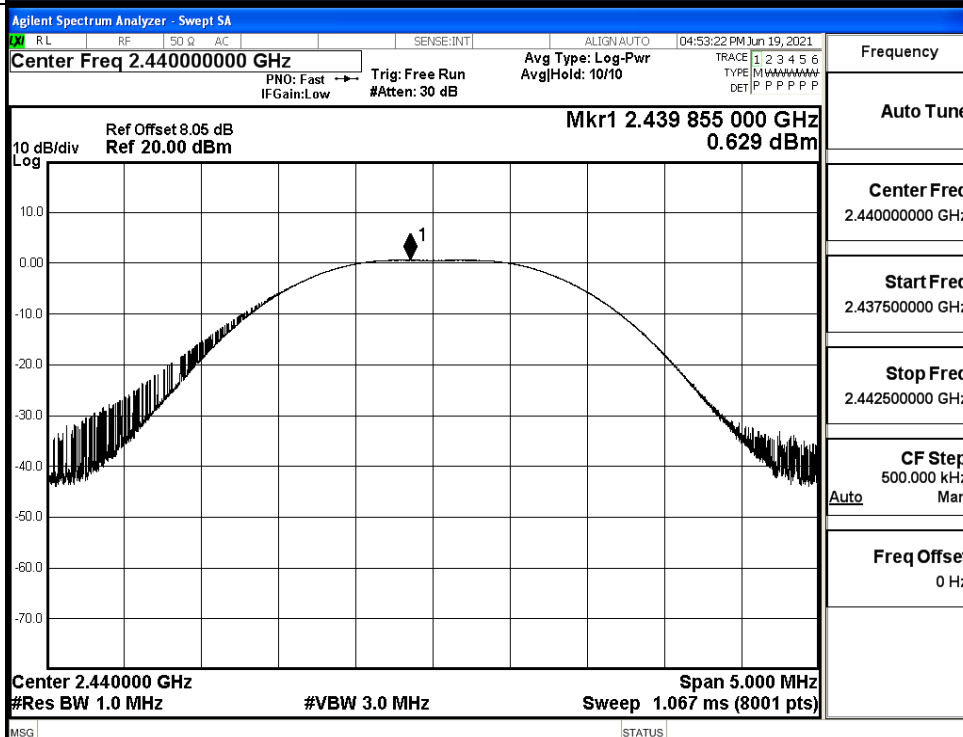
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.709	30	PASS
BT LE	MCH	0.629	30	PASS
BT LE	HCH	-0.612	30	PASS

Test Graphs

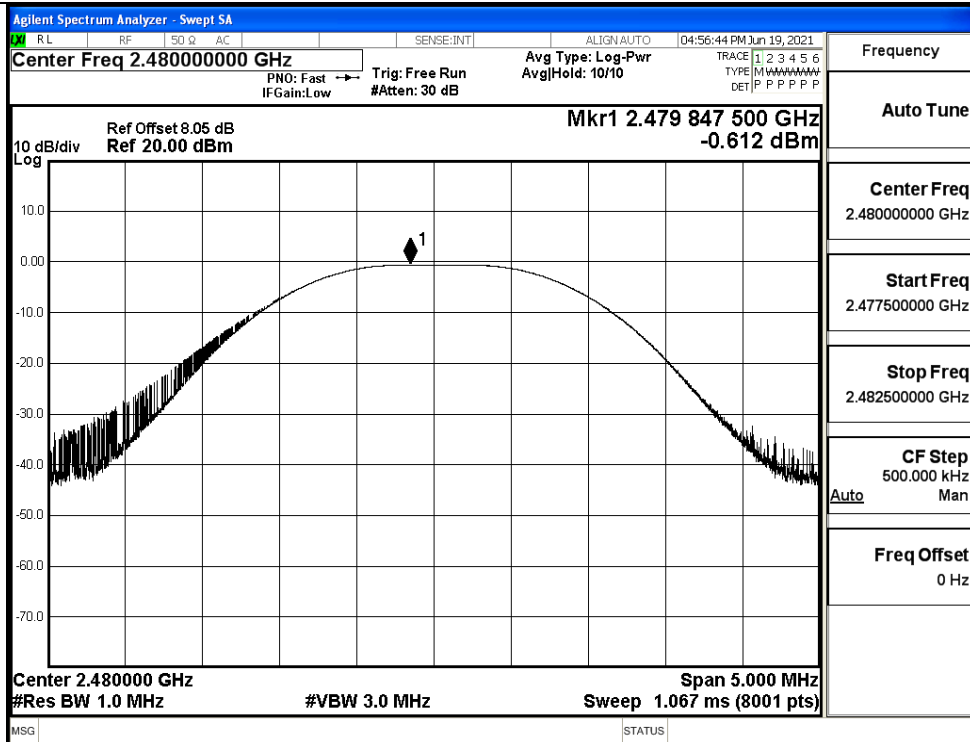
LCH



MCH



HCH

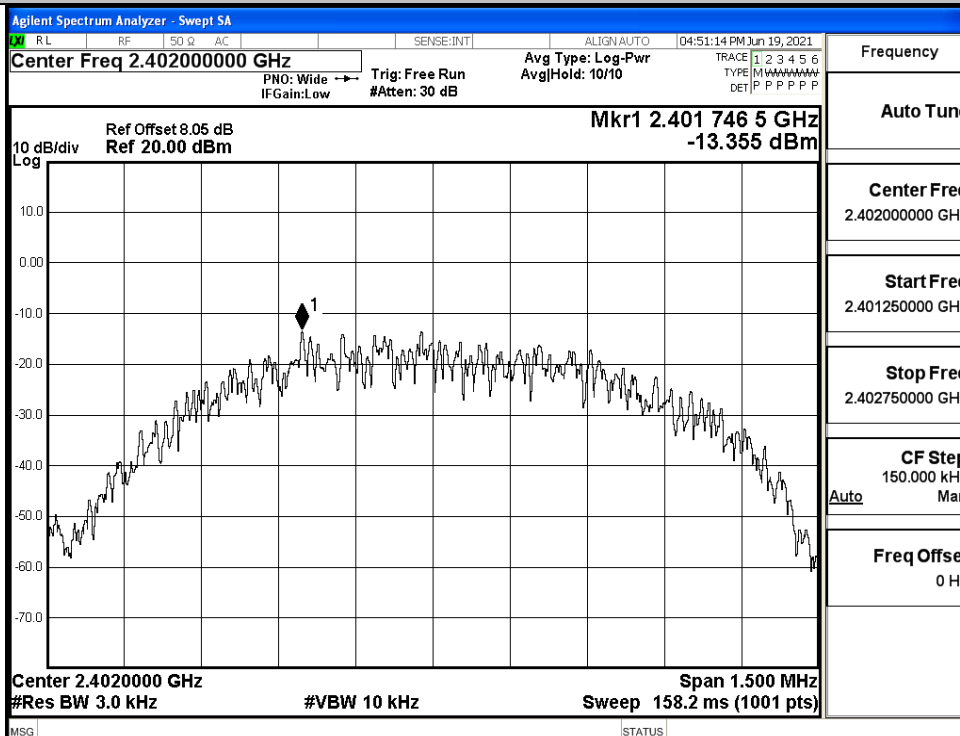


A.3 Maximum Power Spectral Density

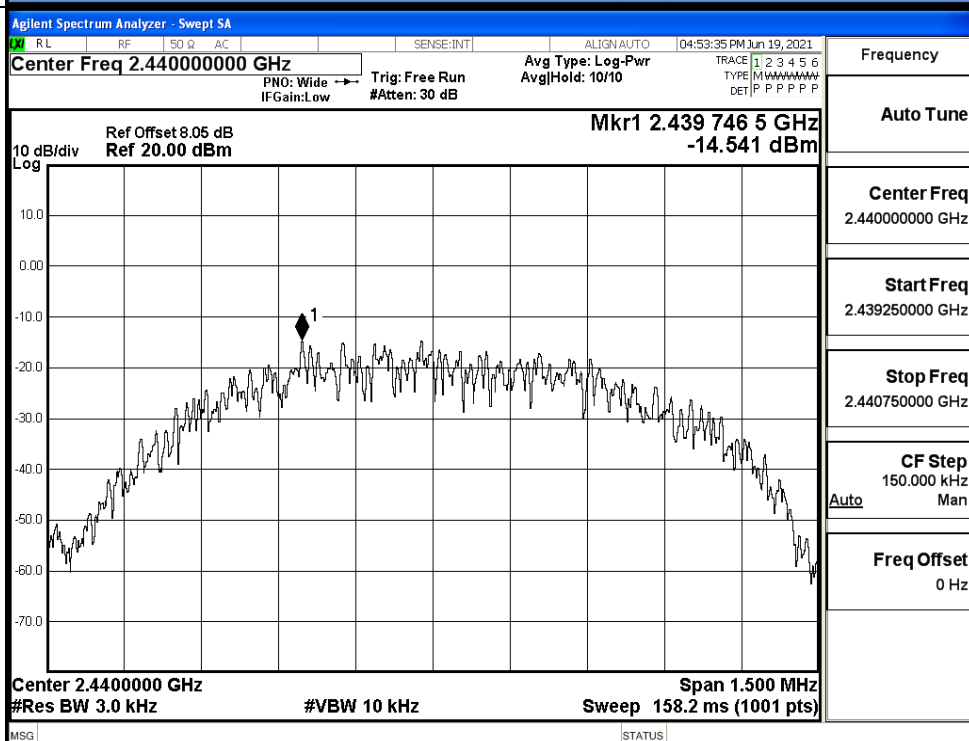
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.355	8	PASS
BT LE	MCH	-14.541	8	PASS
BT LE	HCH	-15.828	8	PASS

Test Graphs

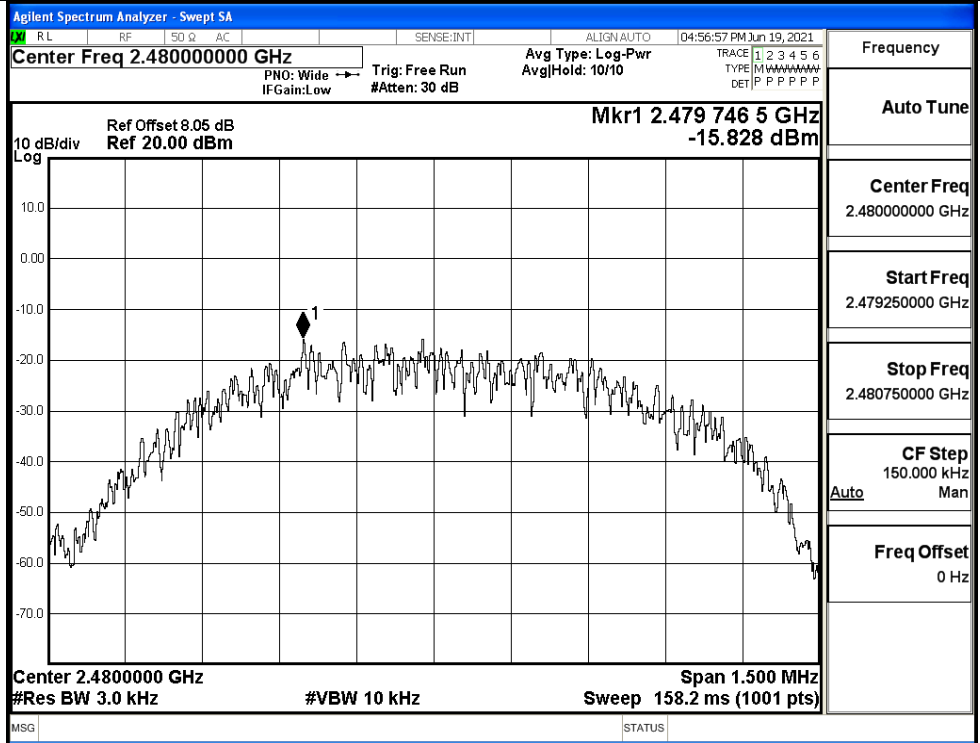
LCH



MCH



HCH

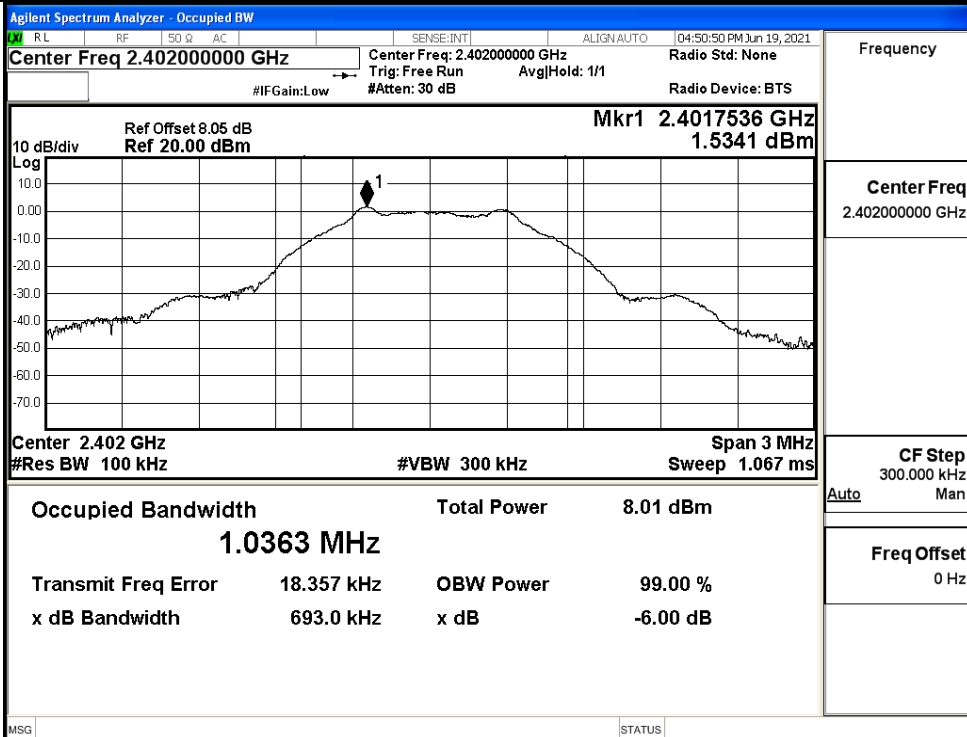


A.4 6dB Bandwidth

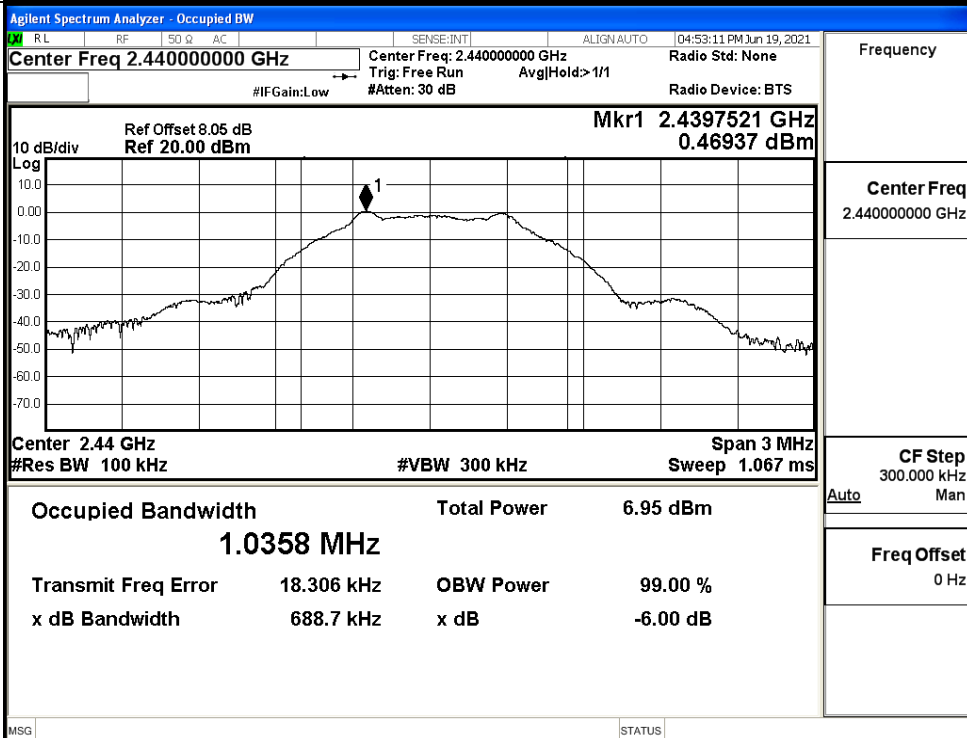
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6930	≥ 0.5	PASS
BT LE	MCH	0.6887	≥ 0.5	PASS
BT LE	HCH	0.6923	≥ 0.5	PASS

Test Graphs

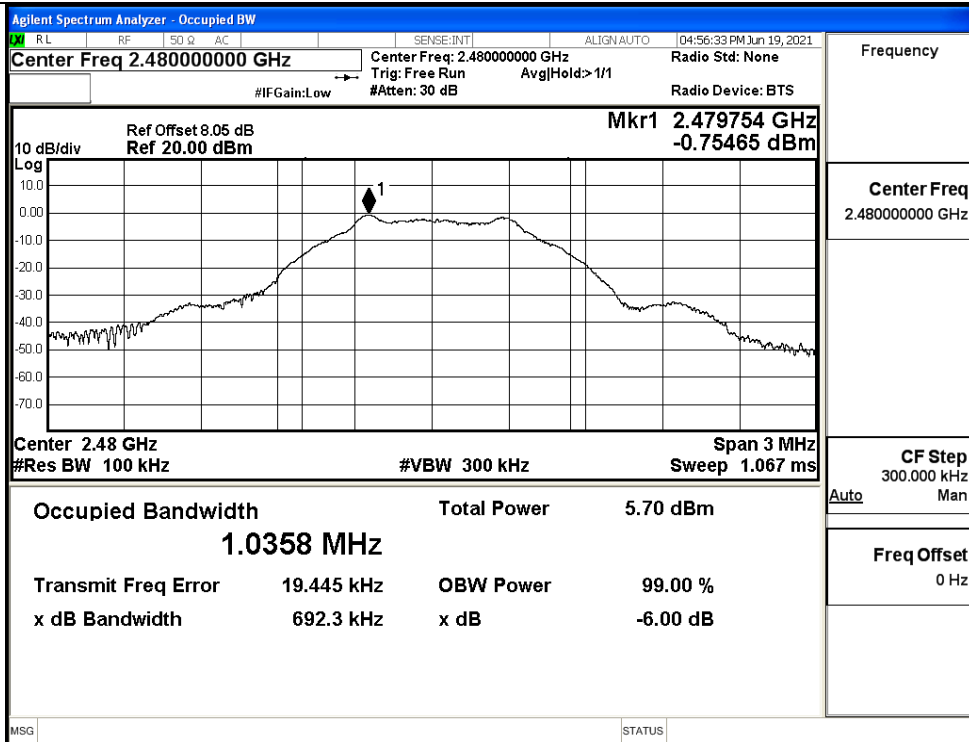
LCH



MCH



HCH

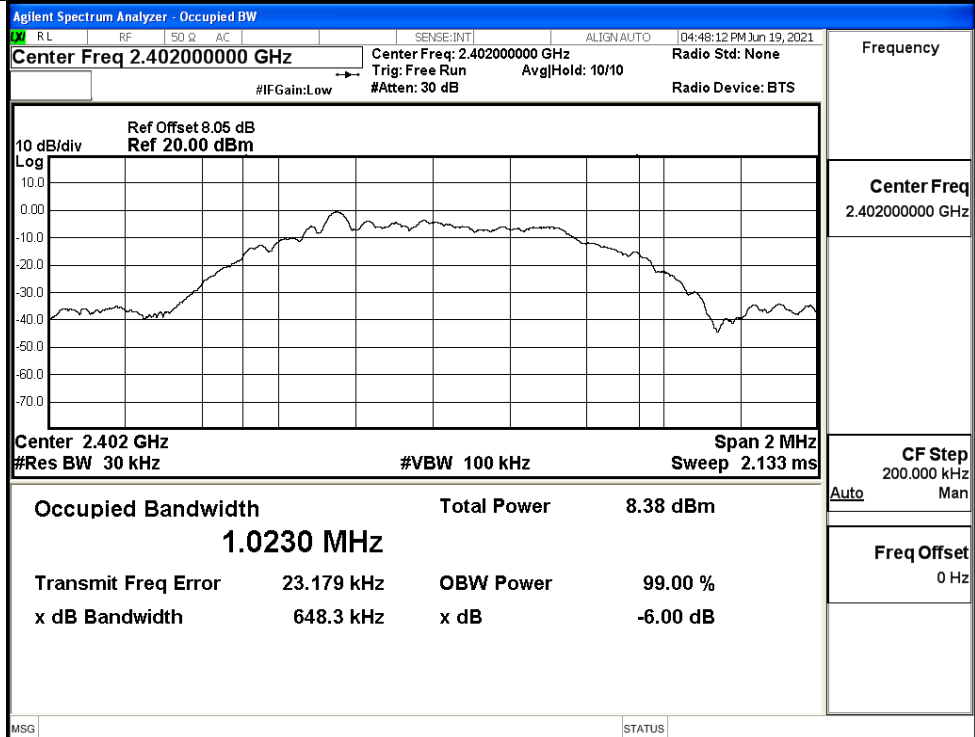


A.5 Occupied Bandwidth

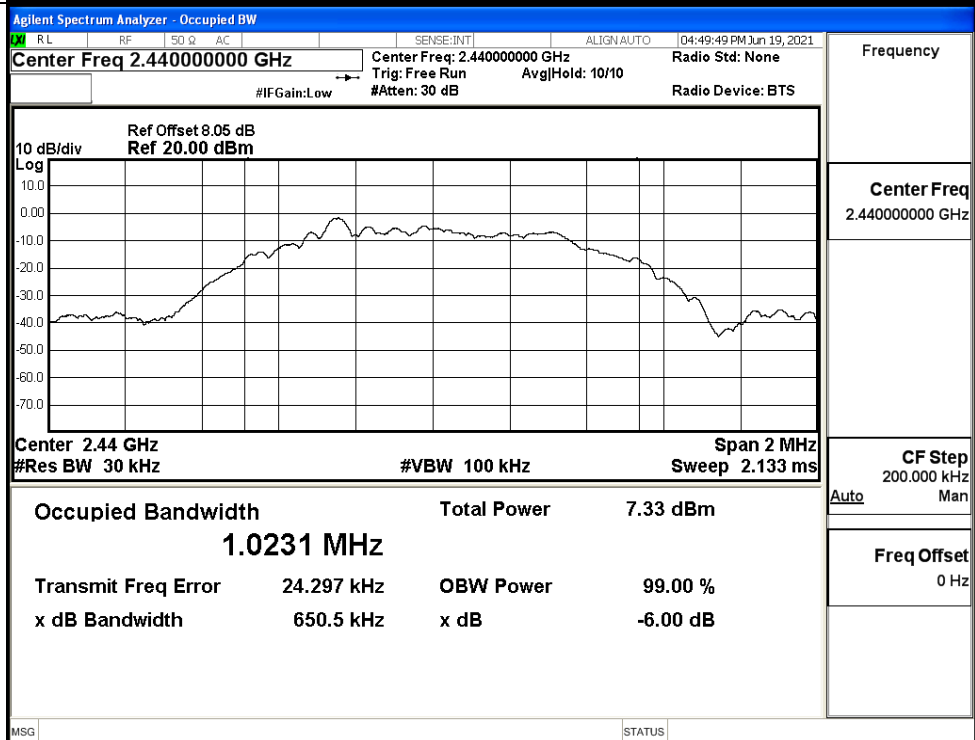
Mode	Channel	Occupied Bandwidth [MHz]	Verdict
BT LE	LCH	1.0230	PASS
BT LE	MCH	1.0231	PASS
BT LE	HCH	1.0233	PASS

Test Graphs

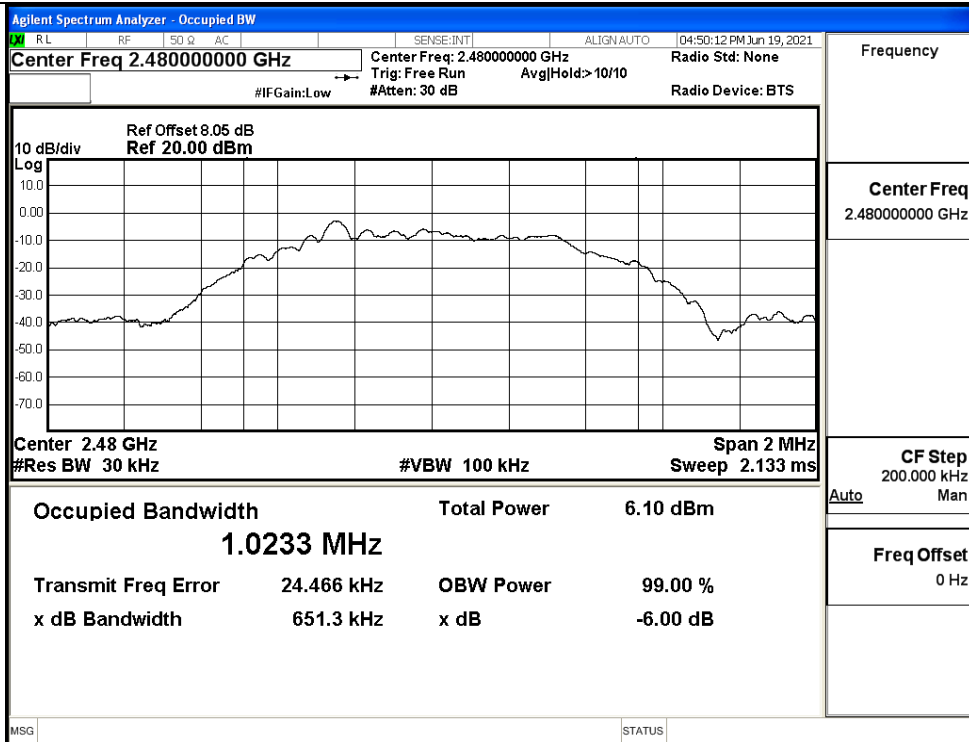
LCH



MCH



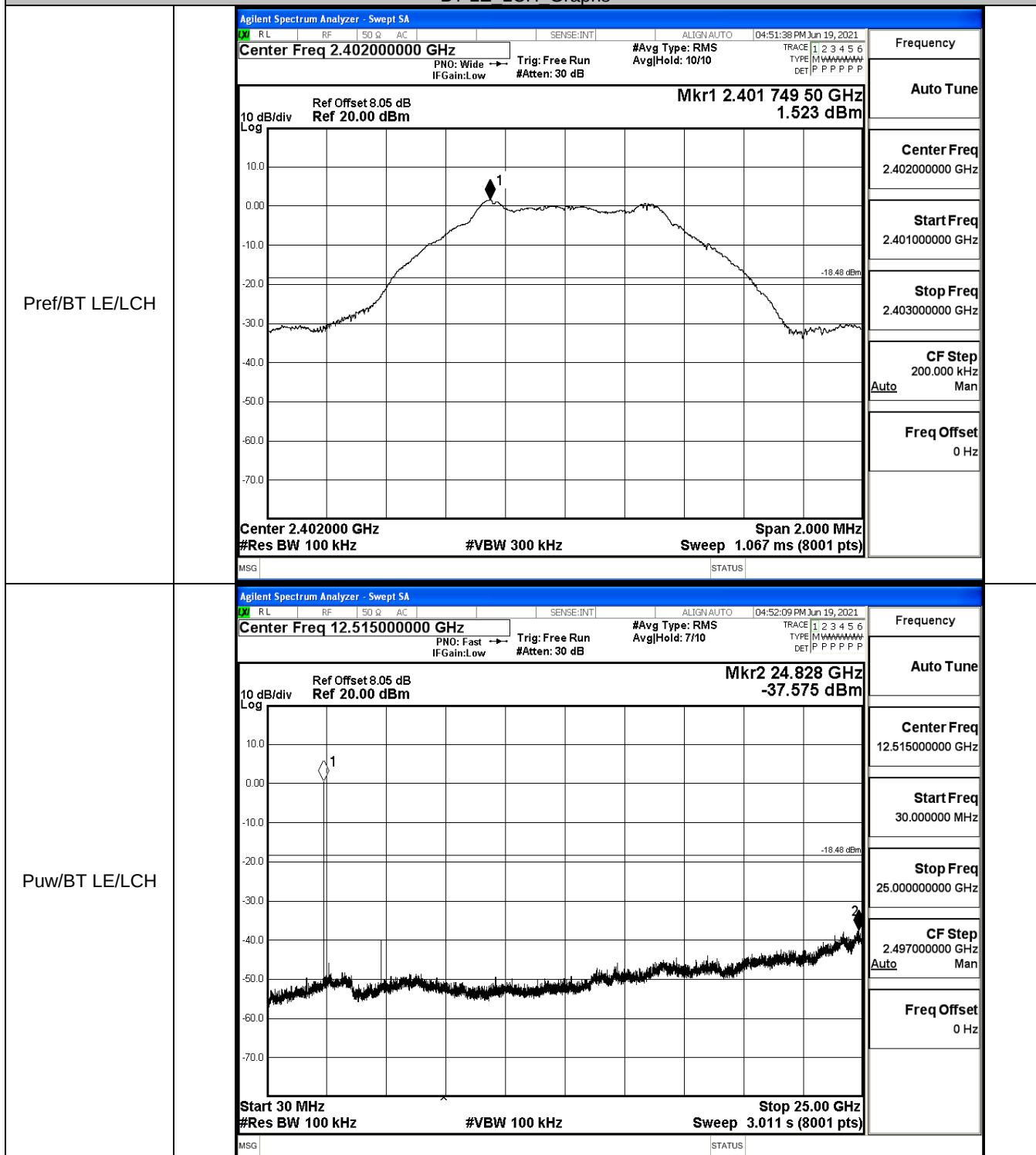
HCH



A.6 RF Conducted Spurious Emissions

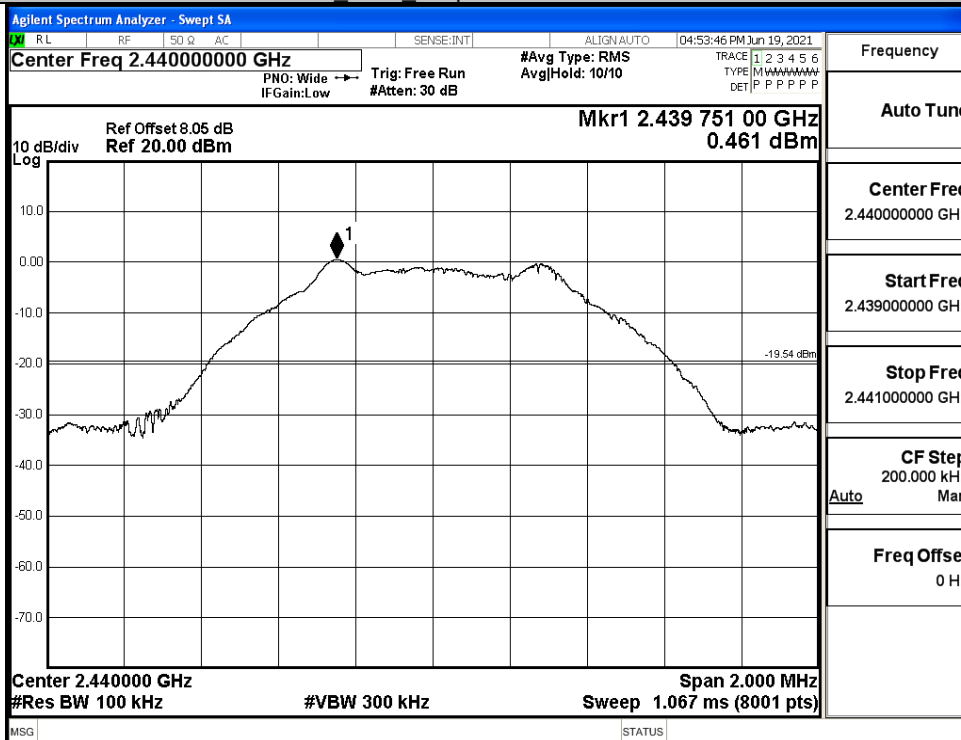
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.523	-37.575	-18.477	PASS
BT LE	MCH	0.461	-37.537	-19.539	PASS
BT LE	HCH	-0.801	-37.795	-20.801	PASS

BT LE LCH Graphs



BT LE MCH Graphs

Pref/BT LE/MCH

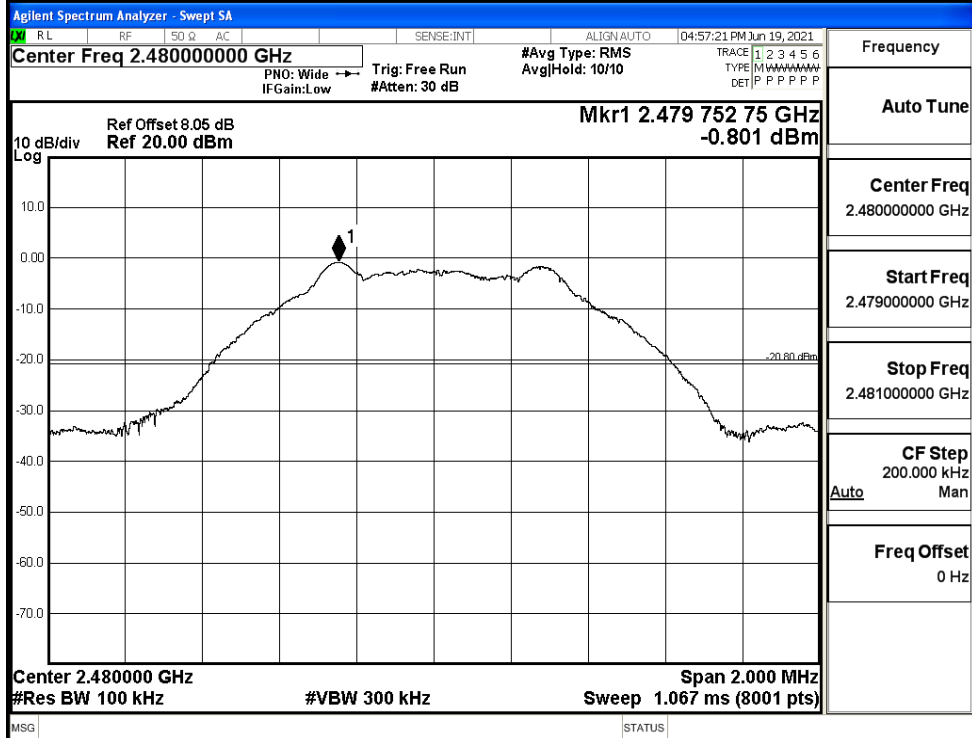


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

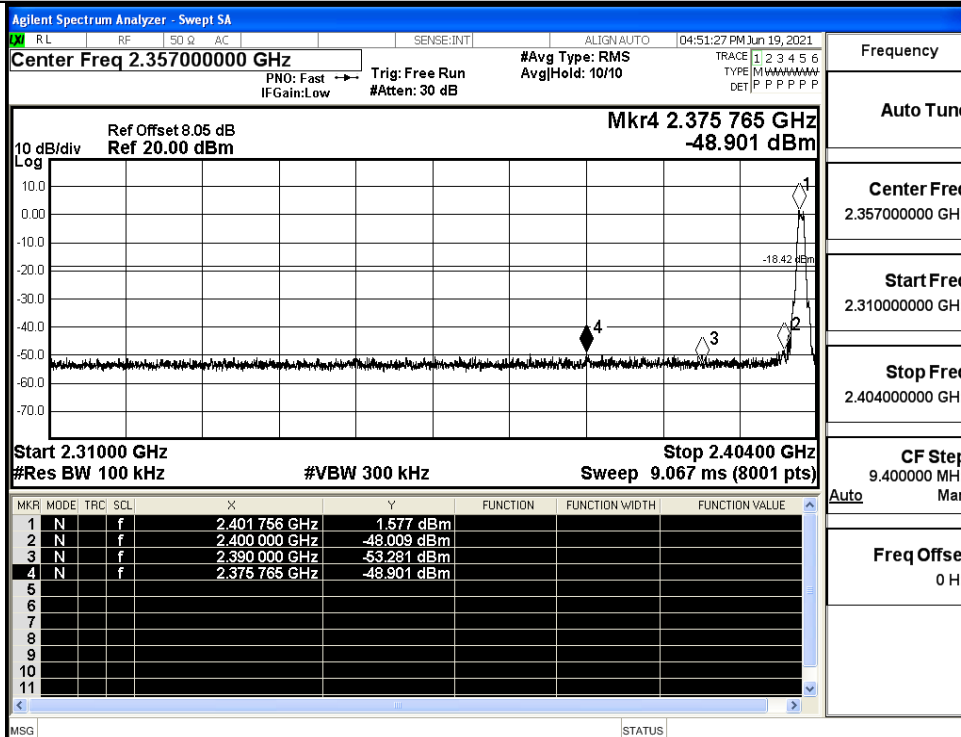


A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.577	-48.901	-18.42	PASS
BT LE	HCH	-0.804	-49.659	-20.8	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

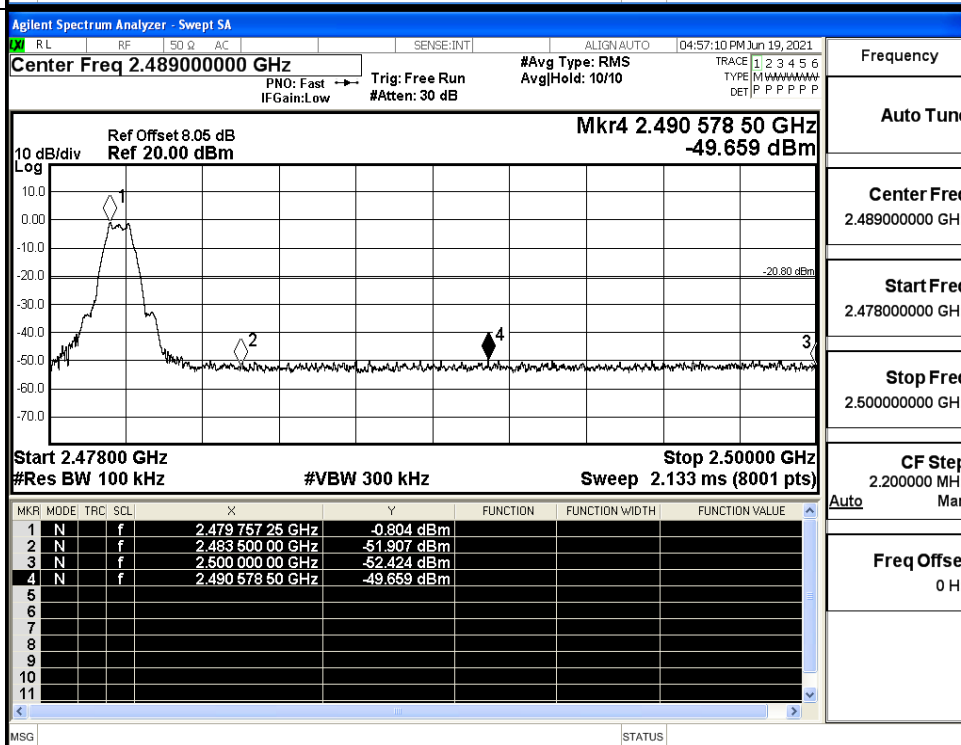
9.400000 MHz

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

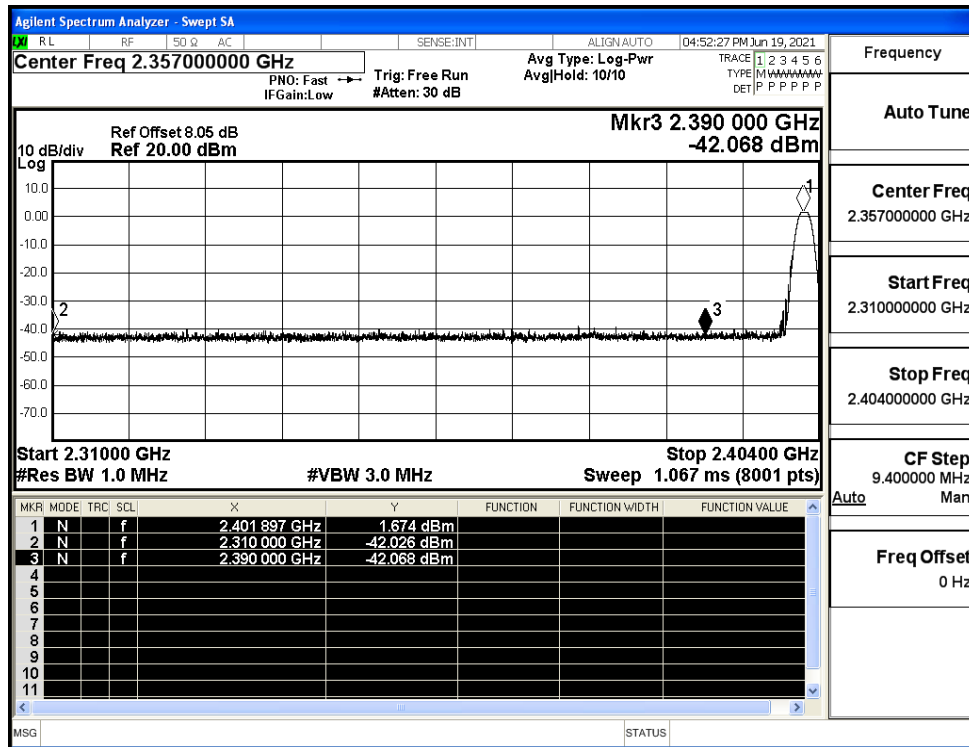
Freq Offset

0 Hz

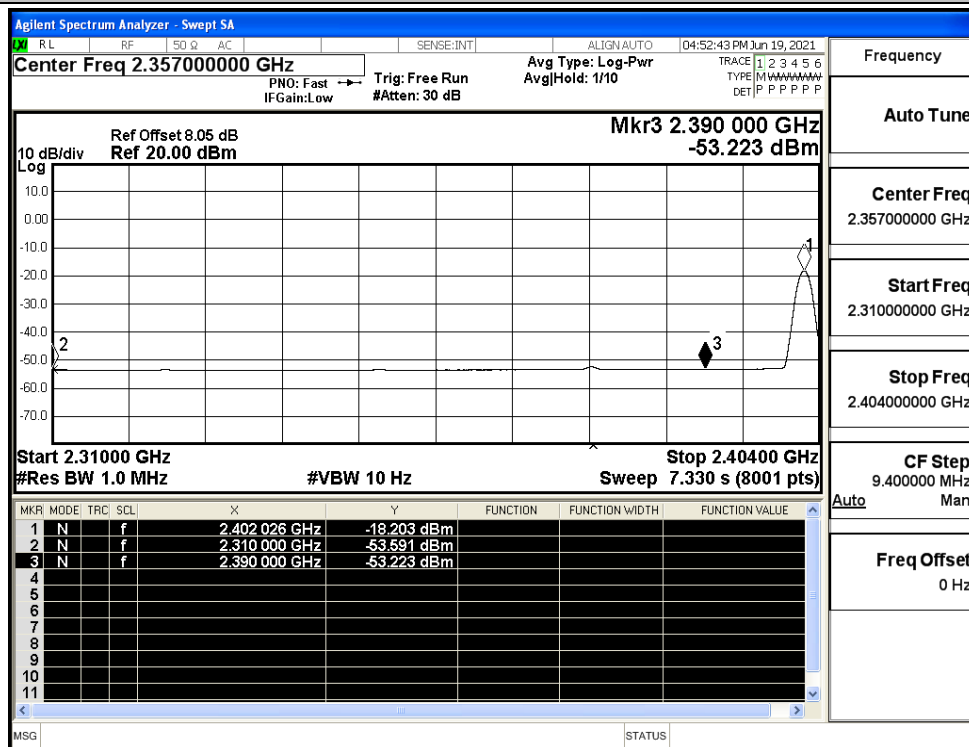
A.8 Restrict-band band-edge measurements

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	-42.03	2.0	0	53.23	PEAK	74	PASS
		Ant1	2310.0	-53.59	2.0	0	41.67	AV	54	PASS
		Ant1	2390.0	-42.07	2.0	0	53.19	PEAK	74	PASS
		Ant1	2390.0	-53.22	2.0	0	42.03	AV	54	PASS
	2480	Ant1	2483.5	-40.50	2.0	0	54.76	PEAK	74	PASS
		Ant1	2483.5	-52.75	2.0	0	42.51	AV	54	PASS
		Ant1	2500.0	-42.88	2.0	0	52.38	PEAK	74	PASS
		Ant1	2500.0	-52.59	2.0	0	42.67	AV	54	PASS

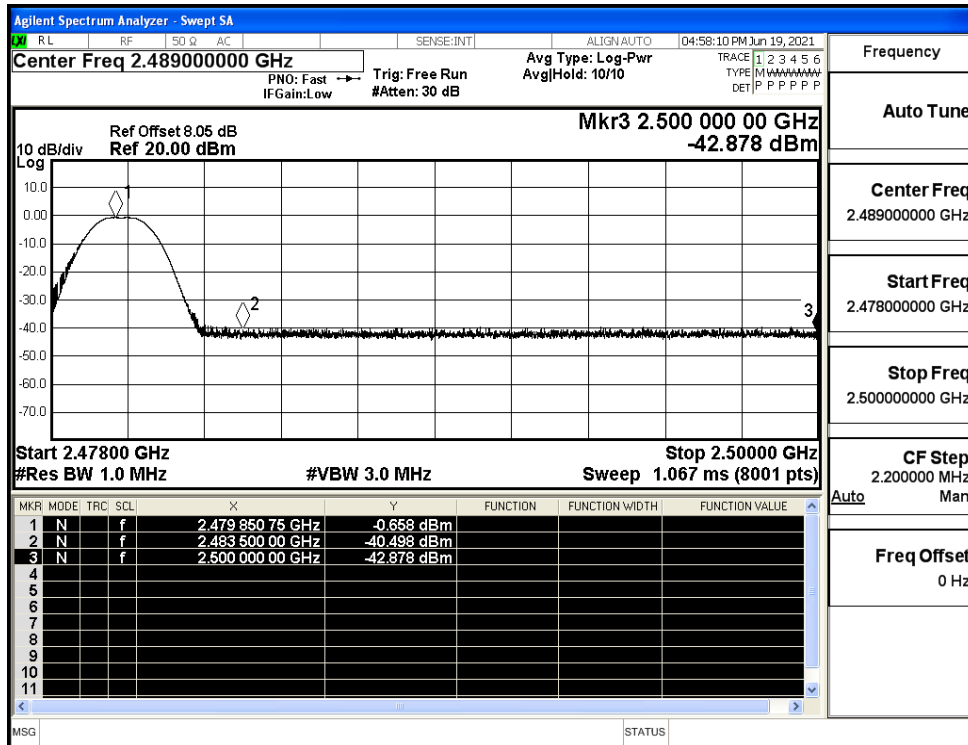
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

