

Appendix A

RF Test Data for BT V5.0(BLE) (Conducted Measurement)

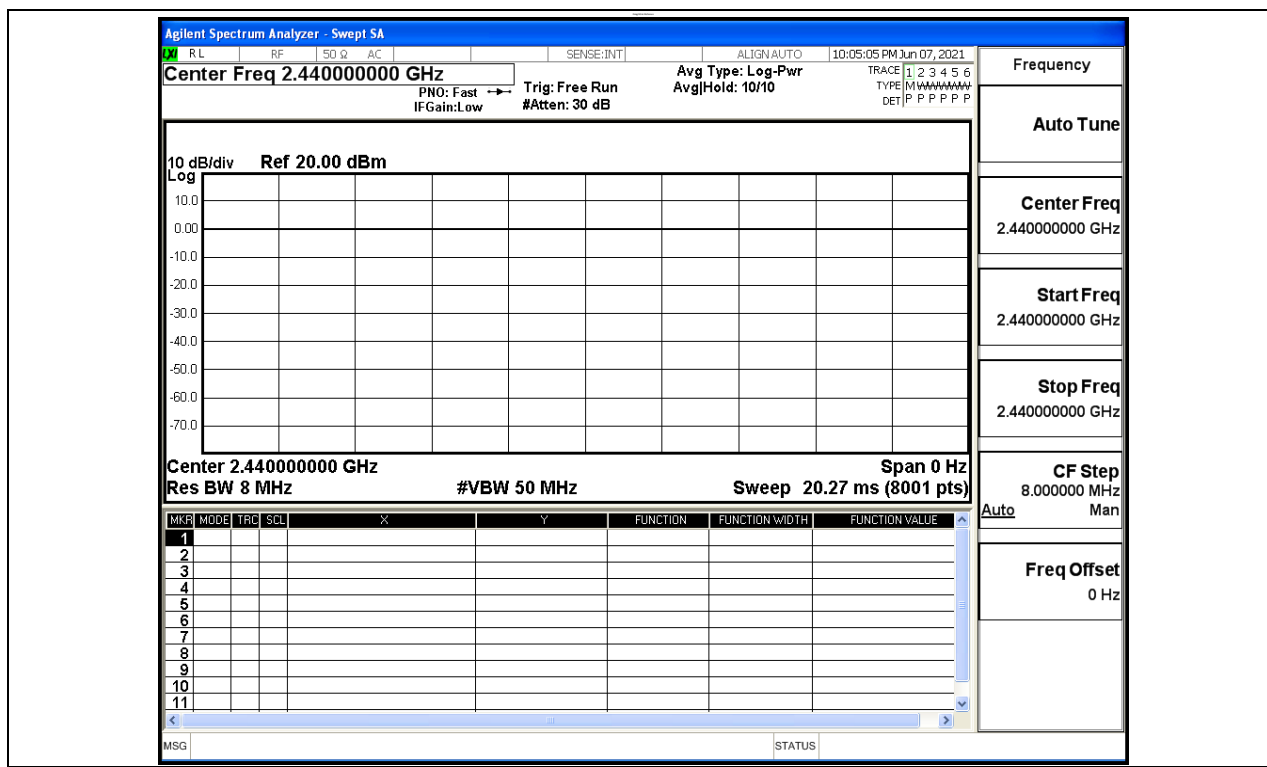
Product Name: FDH V2.0
Trade Mark: TraceSCAN
Test Model(HVIN): TraceSCAN V2.0

Environmental Conditions

Temperature:	22.8°C
Relative Humidity:	53.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

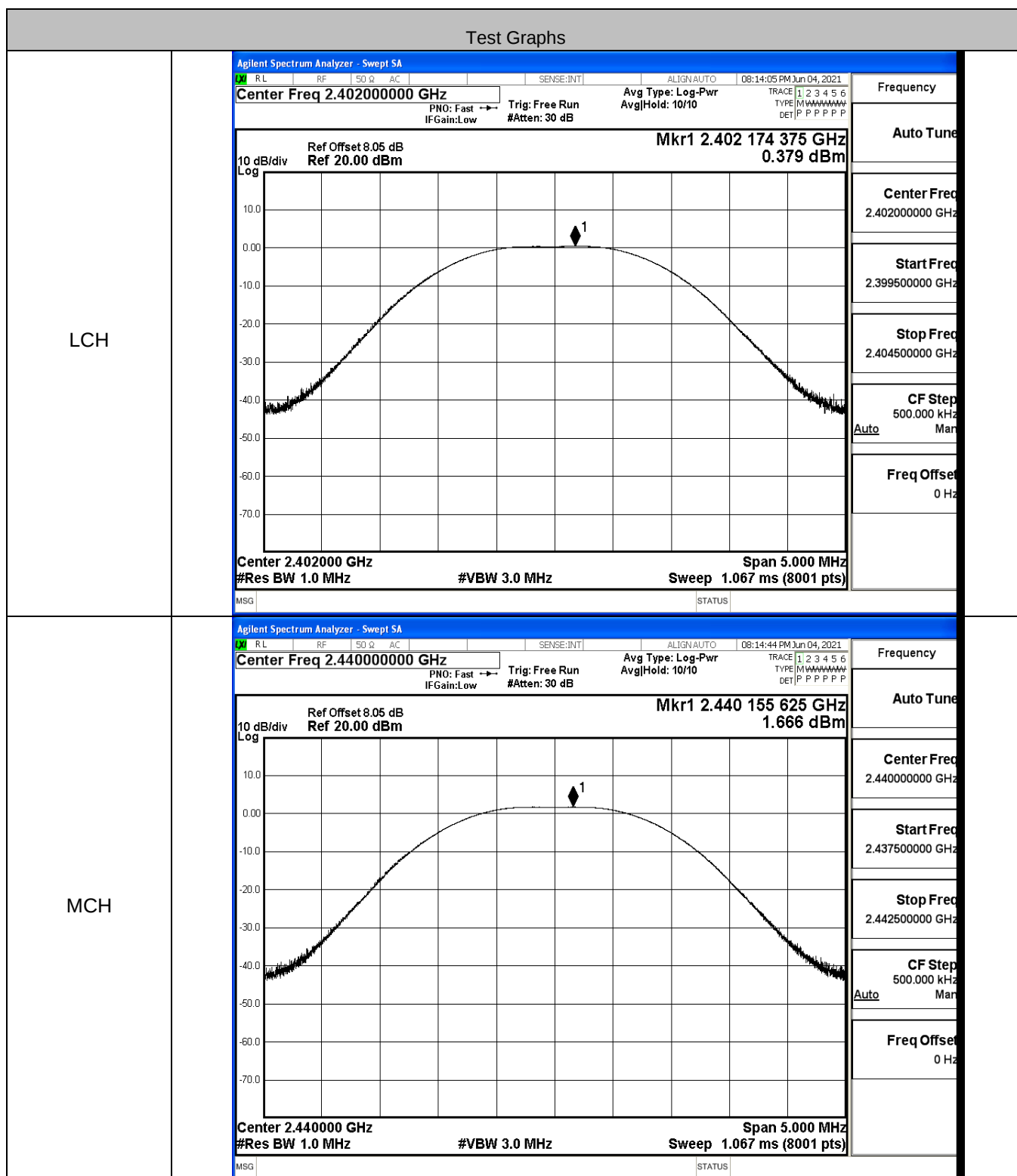
A.1 Duty Cycle

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

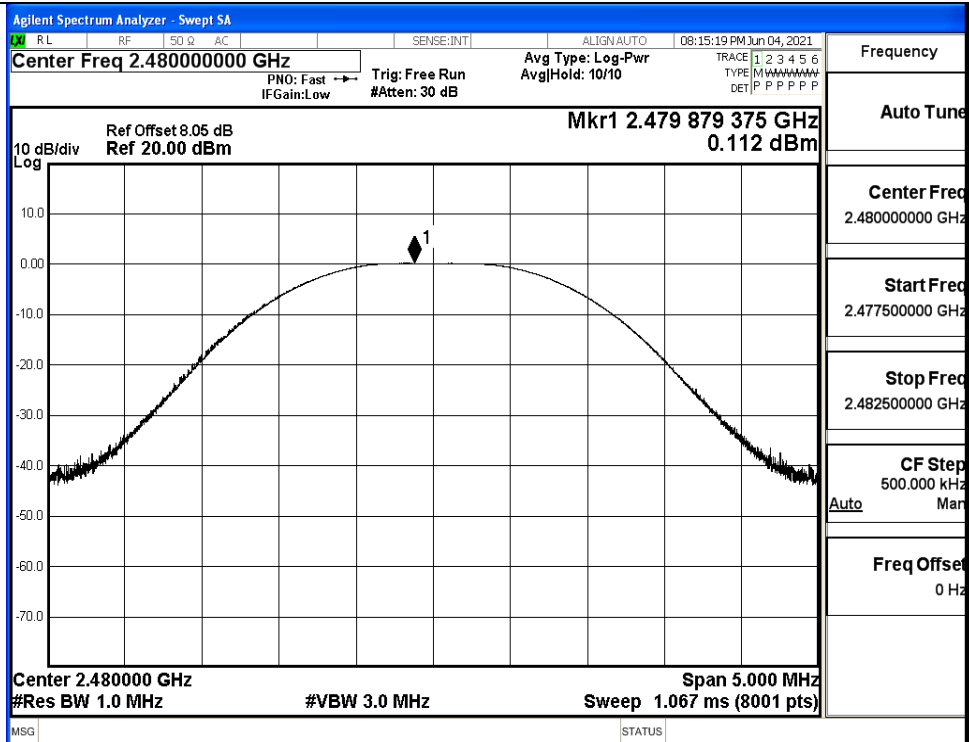


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.379	30	PASS
BT LE	MCH	1.666	30	PASS
BT LE	HCH	0.112	30	PASS



HCH

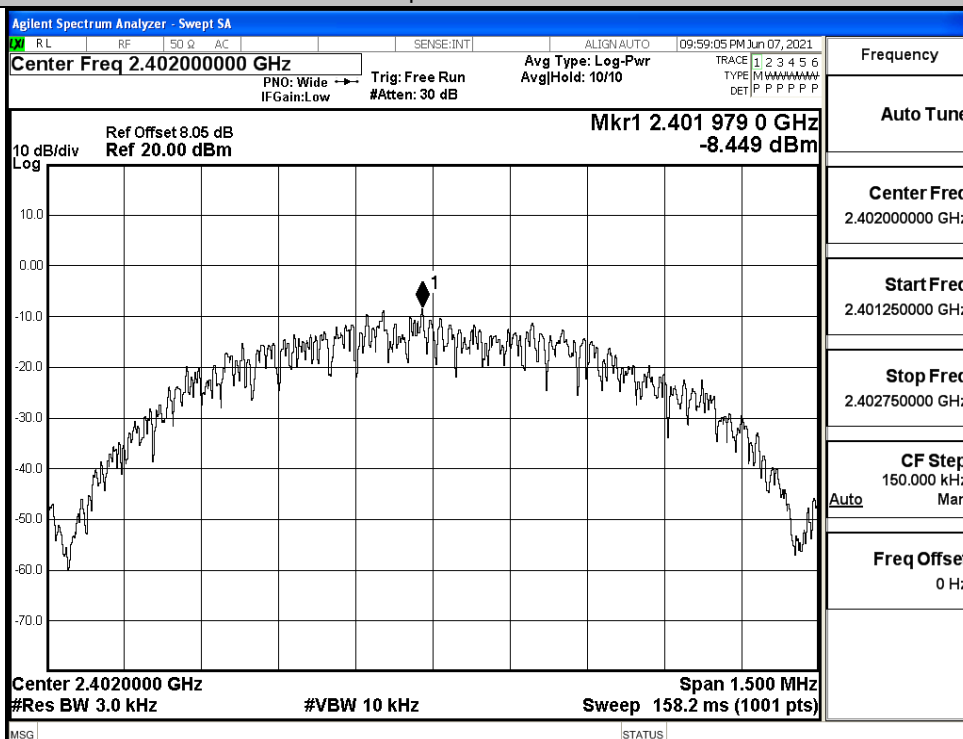


A.3 Maximum Power Spectral Density

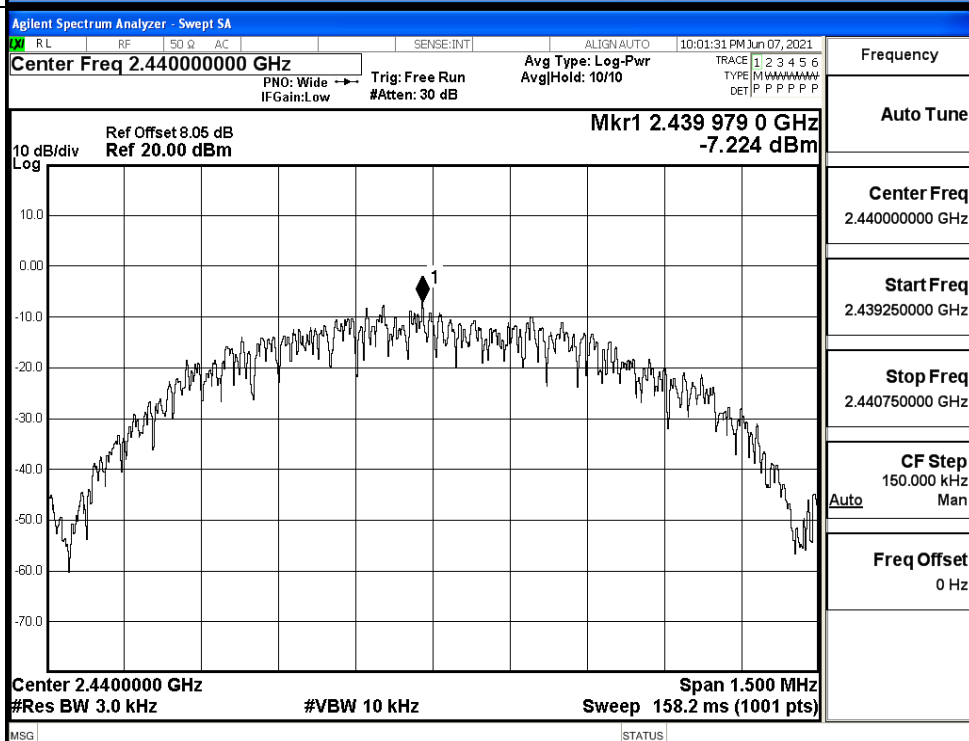
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-8.449	8	PASS
BT LE	MCH	-7.224	8	PASS
BT LE	HCH	-8.639	8	PASS

Test Graphs

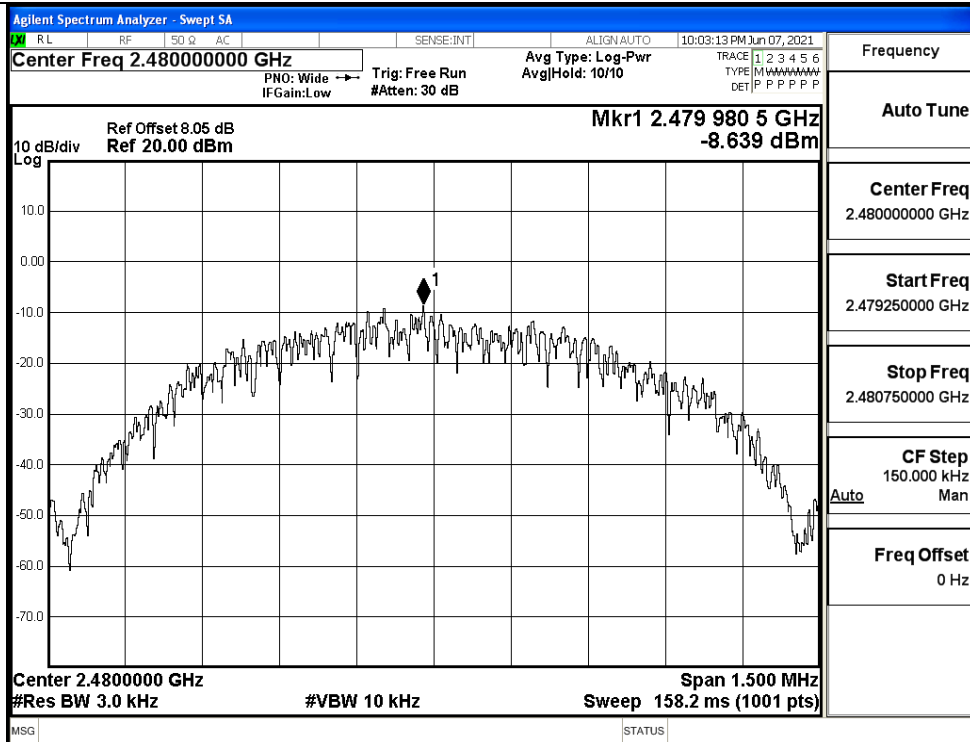
LCH



MCH



HCH

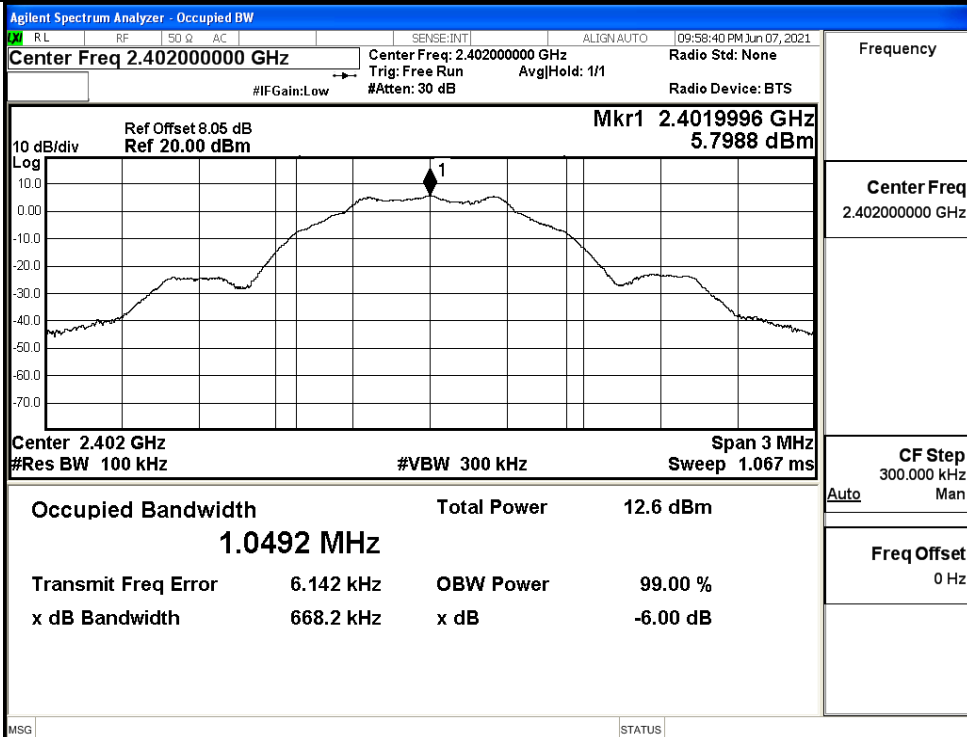


A.4 6dB Bandwidth

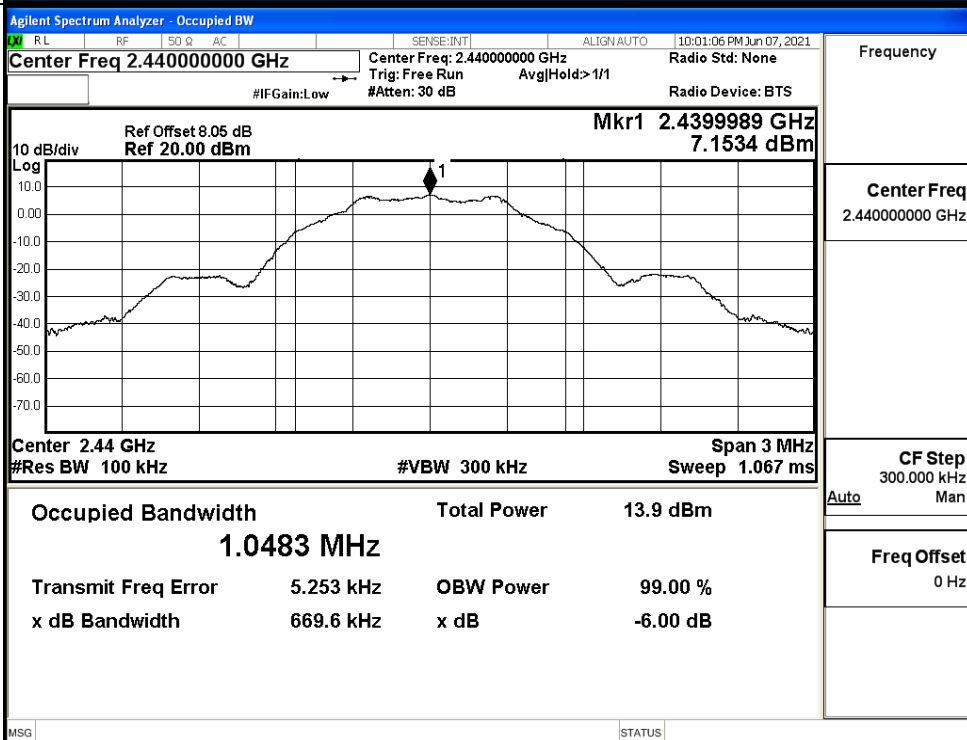
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6682	≥ 0.5	PASS
BT LE	MCH	0.6696	≥ 0.5	PASS
BT LE	HCH	0.6688	≥ 0.5	PASS

Test Graphs

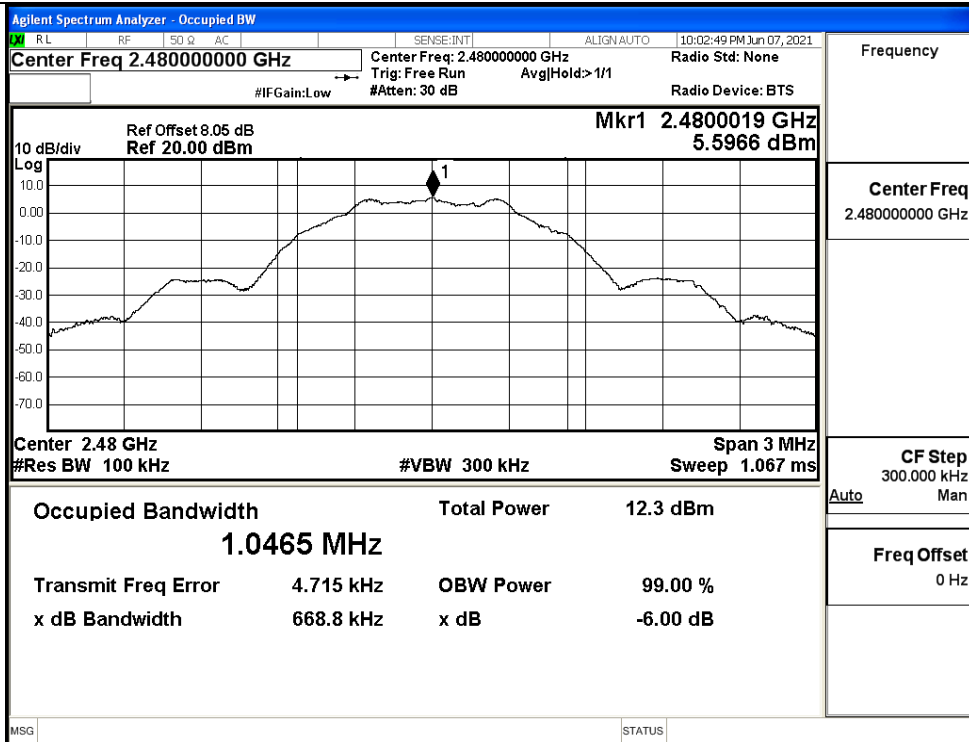
LCH



MCH



HCH

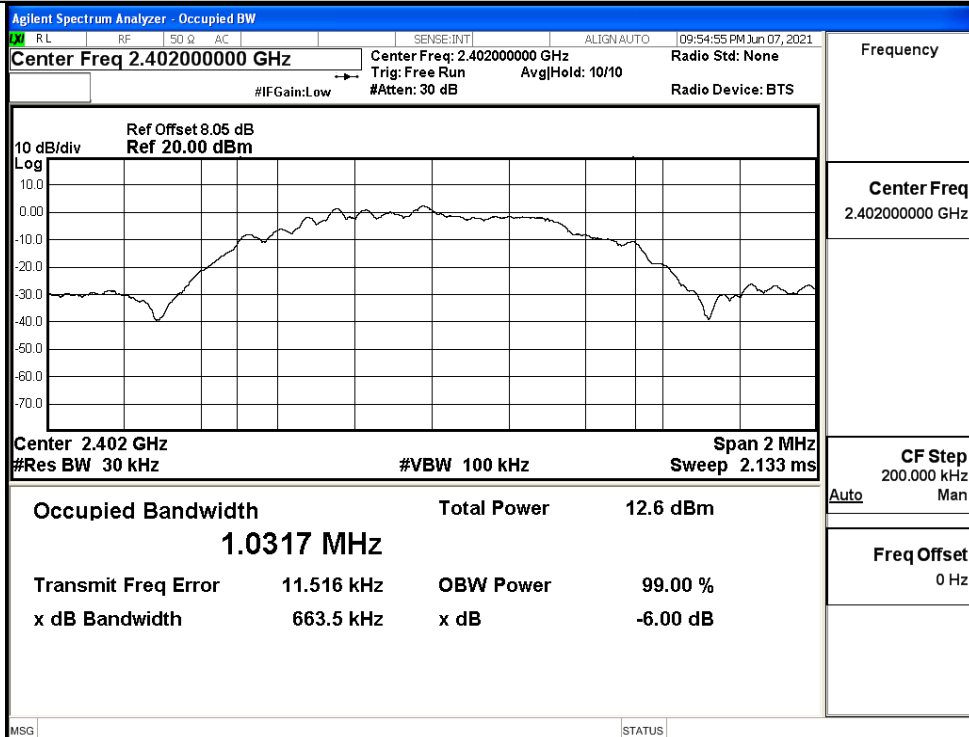


A.5 Occupied Bandwidth

Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0317	≥ 0.5	PASS
BT LE	MCH	1.0313	≥ 0.5	PASS
BT LE	HCH	1.0330	≥ 0.5	PASS

Test Graphs

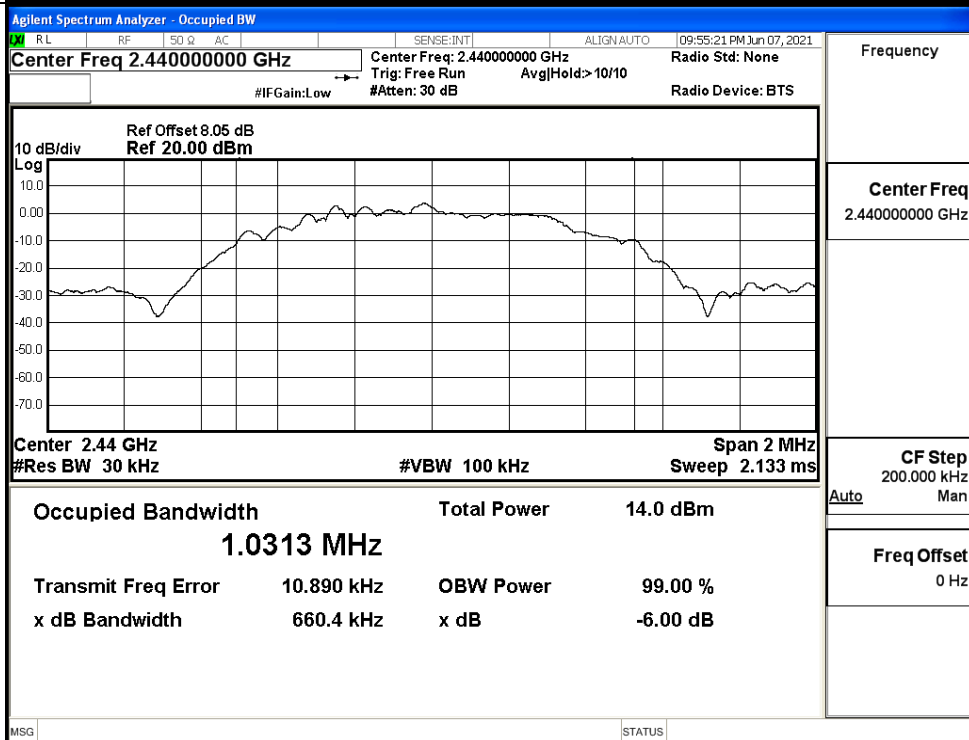
LCH



Frequency

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

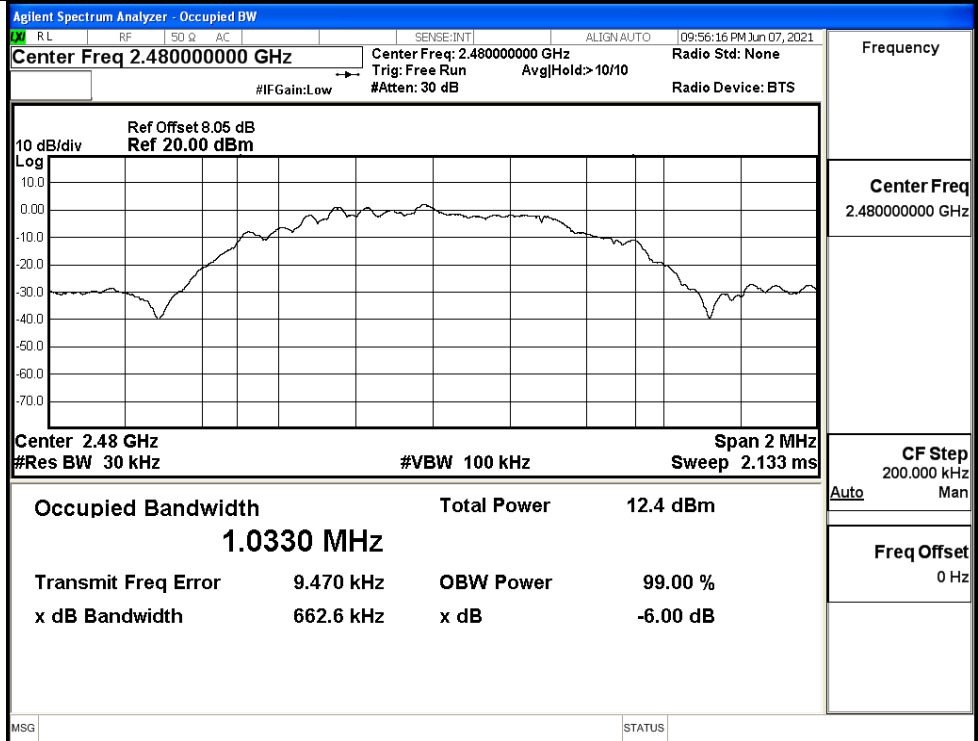
MCH



Frequency

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

HCH

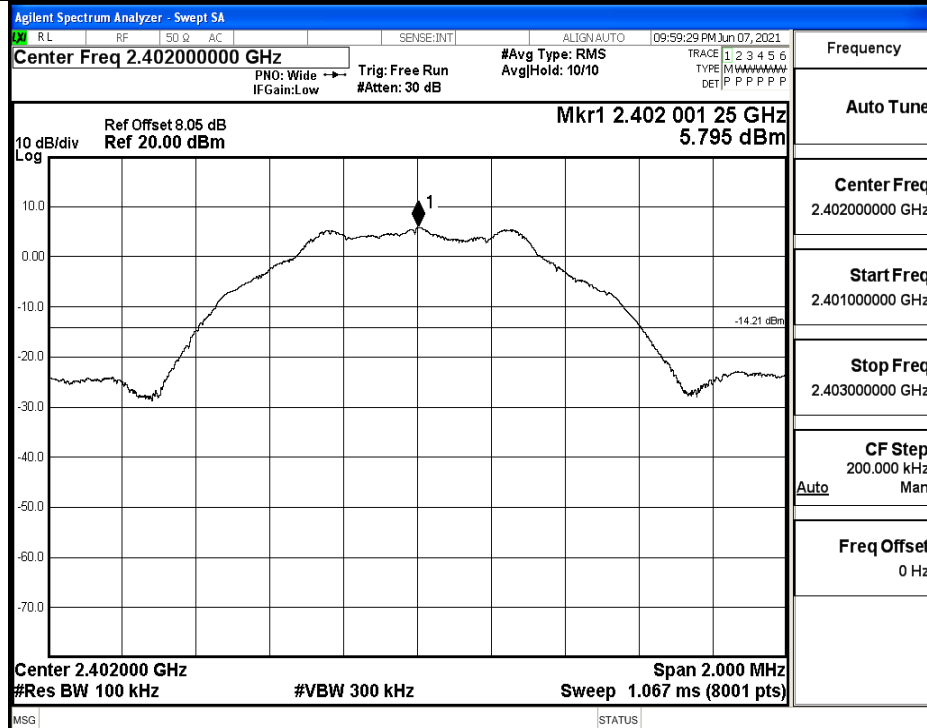


A.6 RF Conducted Spurious Emissions

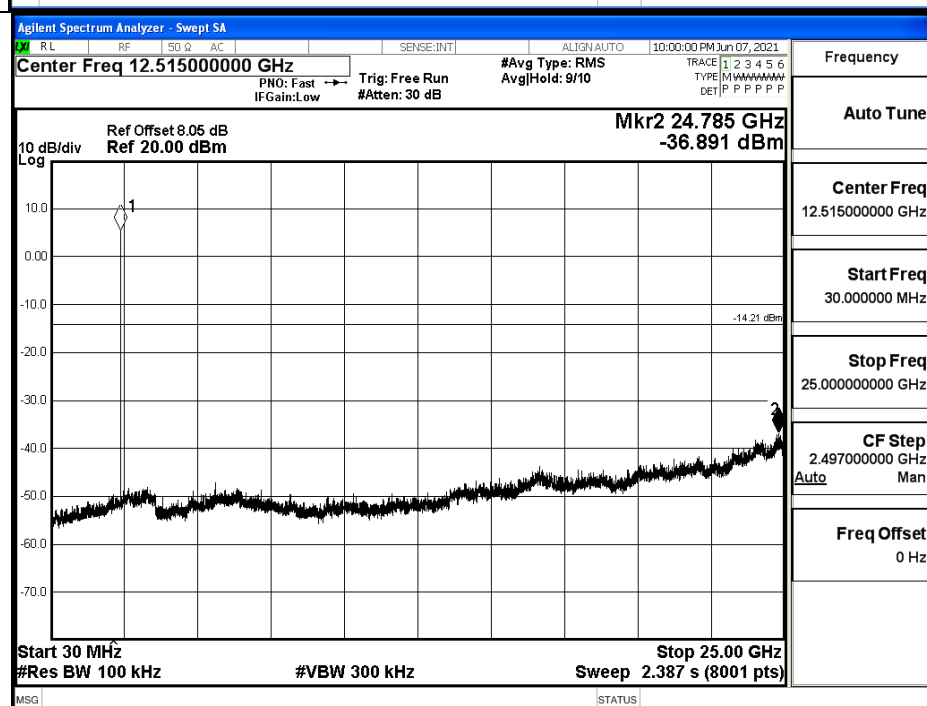
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	5.795	-36.891	-14.205	PASS
BT LE	MCH	7.155	-36.953	-12.845	PASS
BT LE	HCH	5.577	-37.438	-14.423	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

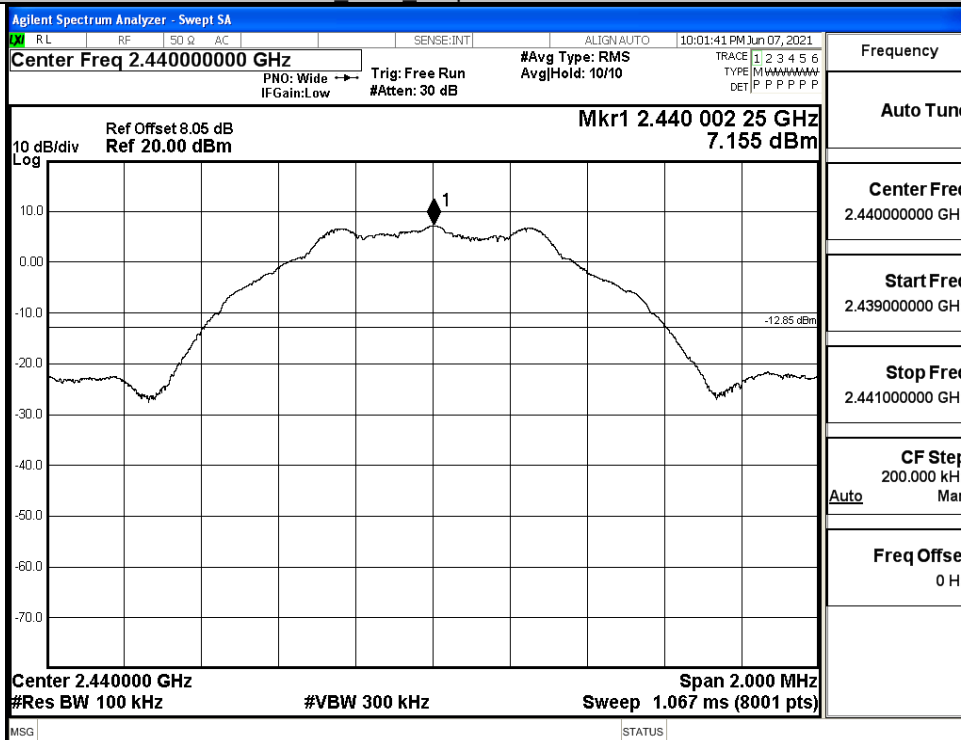


Puw/BT LE/LCH

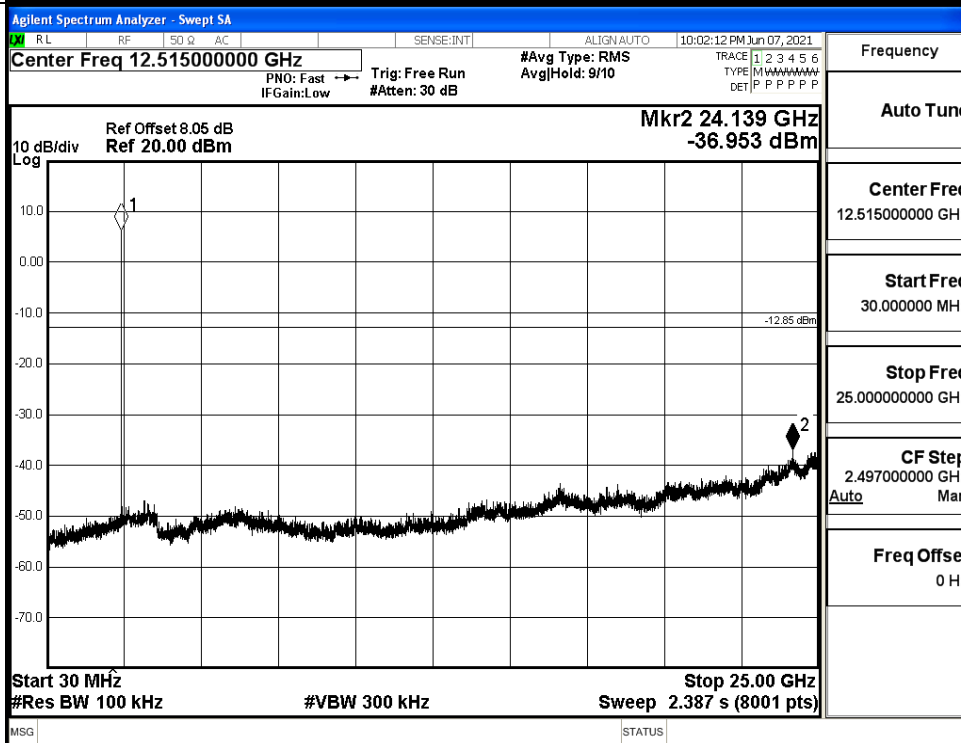


BT LE MCH Graphs

Pref/BT LE/MCH

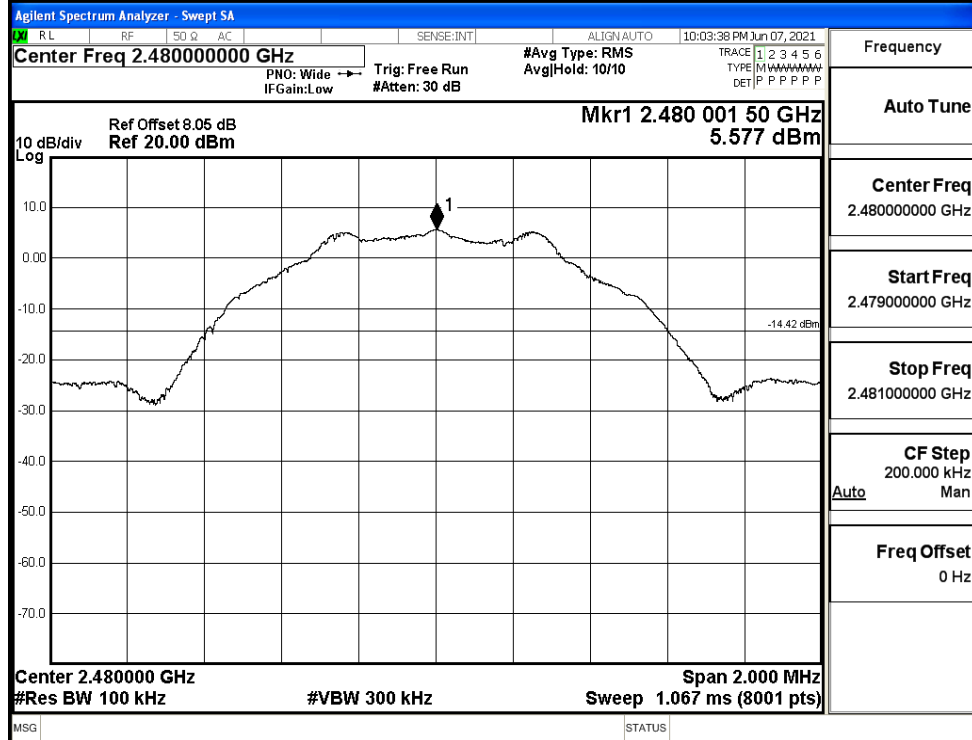


Puw/BT LE/MCH

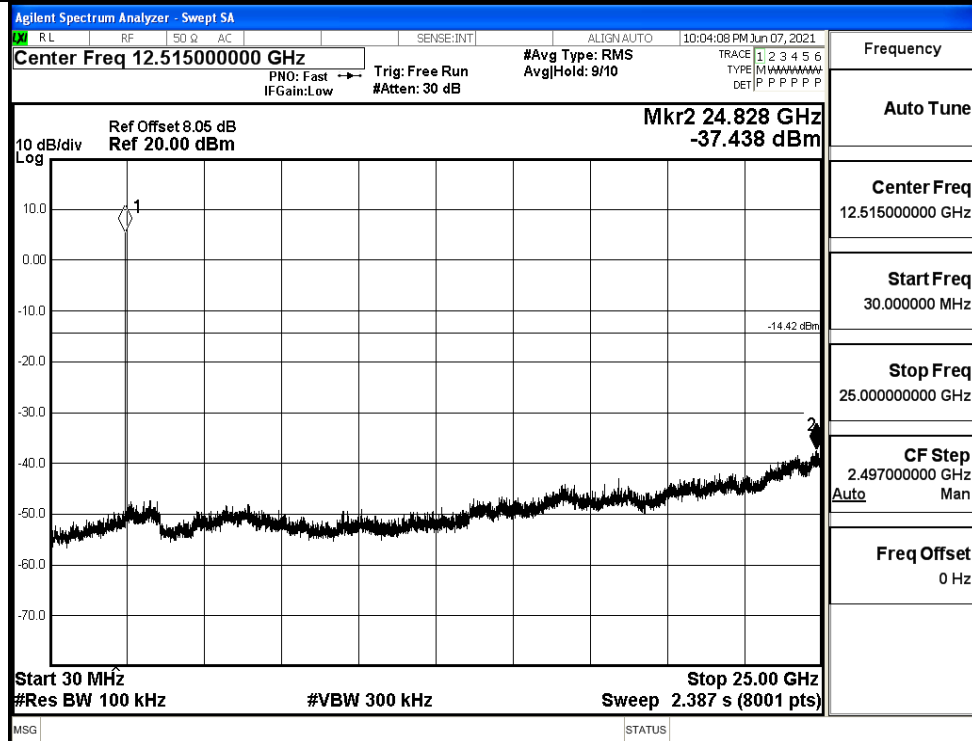


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

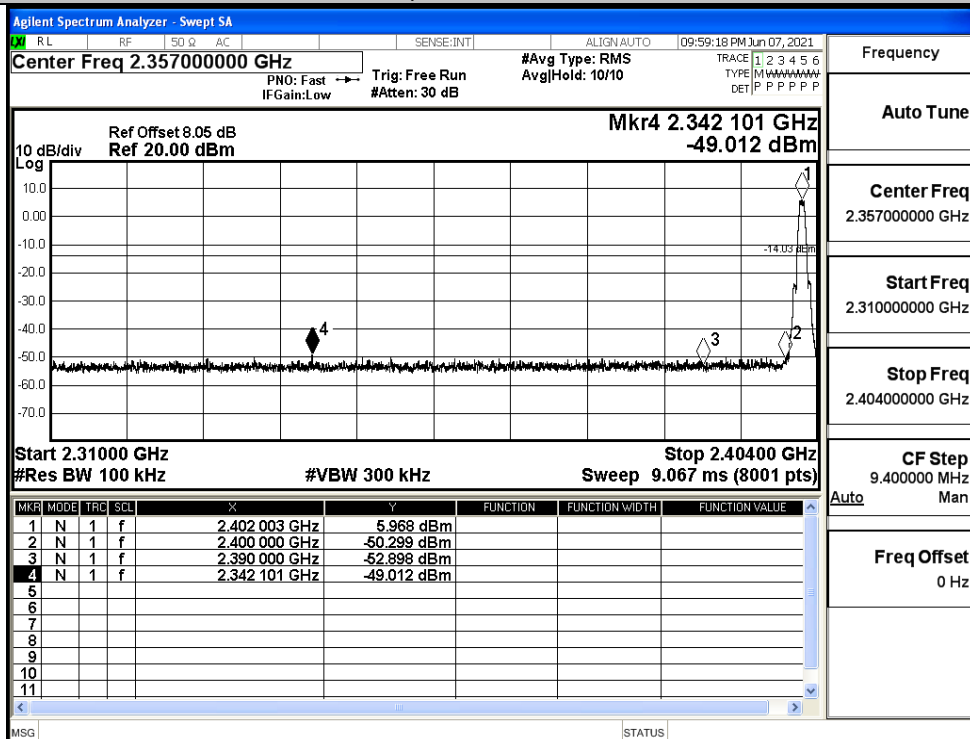


A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	5.968	-49.012	-14.03	PASS
BT LE	HCH	5.577	-49.023	-14.42	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

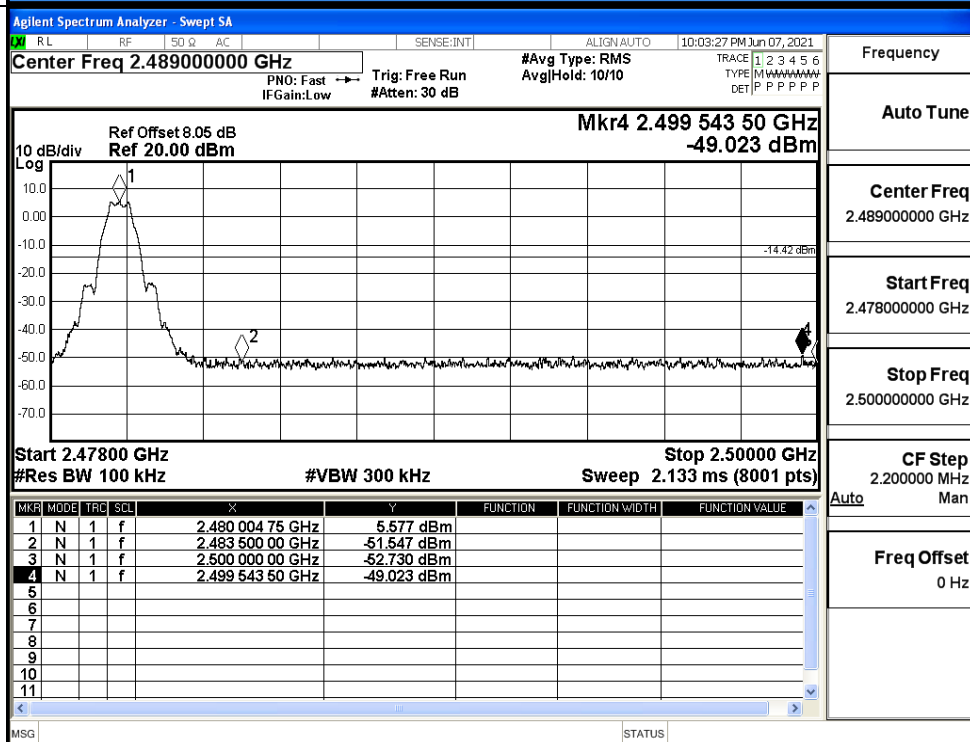
9.400000 MHz

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

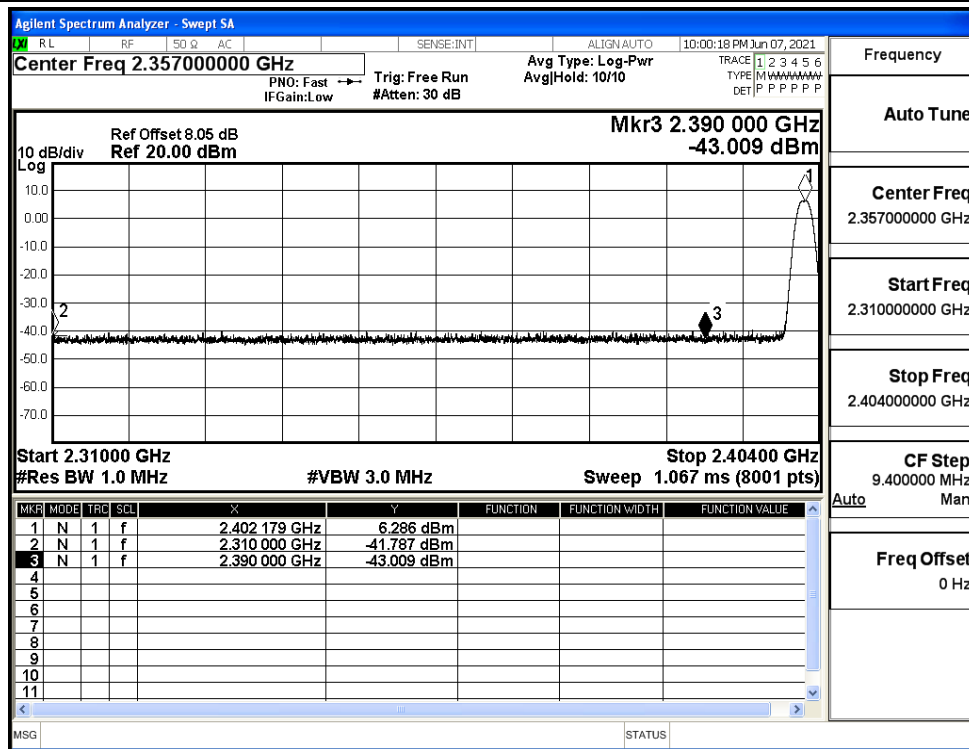
Freq Offset

0 Hz

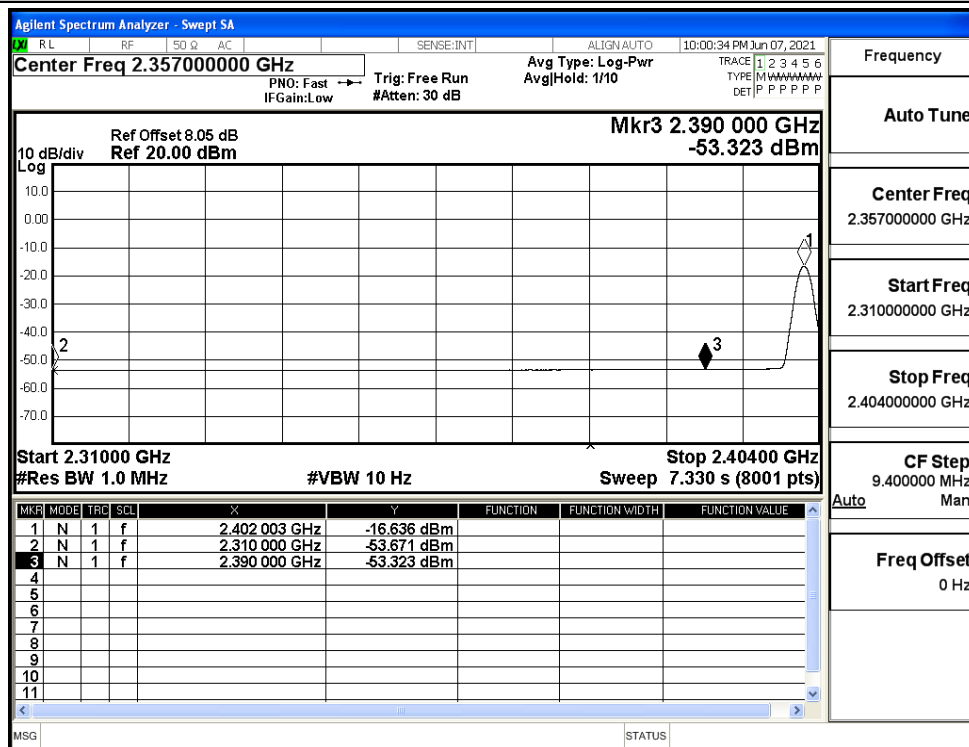
A.8 Restrict-band band-edge measurements

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	-41.79	2.0	0	55.47	PEAK	74	PASS
		Ant1	2310.0	-53.67	2.0	0	43.59	AV	54	PASS
		Ant1	2390.0	-43.01	2.0	0	54.25	PEAK	74	PASS
		Ant1	2390.0	-53.32	2.0	0	43.93	AV	54	PASS
	2480	Ant1	2483.5	-42.37	2.0	0	54.89	PEAK	74	PASS
		Ant1	2483.5	-52.69	2.0	0	44.57	AV	54	PASS
		Ant1	2500.0	-42.14	2.0	0	55.12	PEAK	74	PASS
		Ant1	2500.0	-52.65	2.0	0	44.60	AV	54	PASS

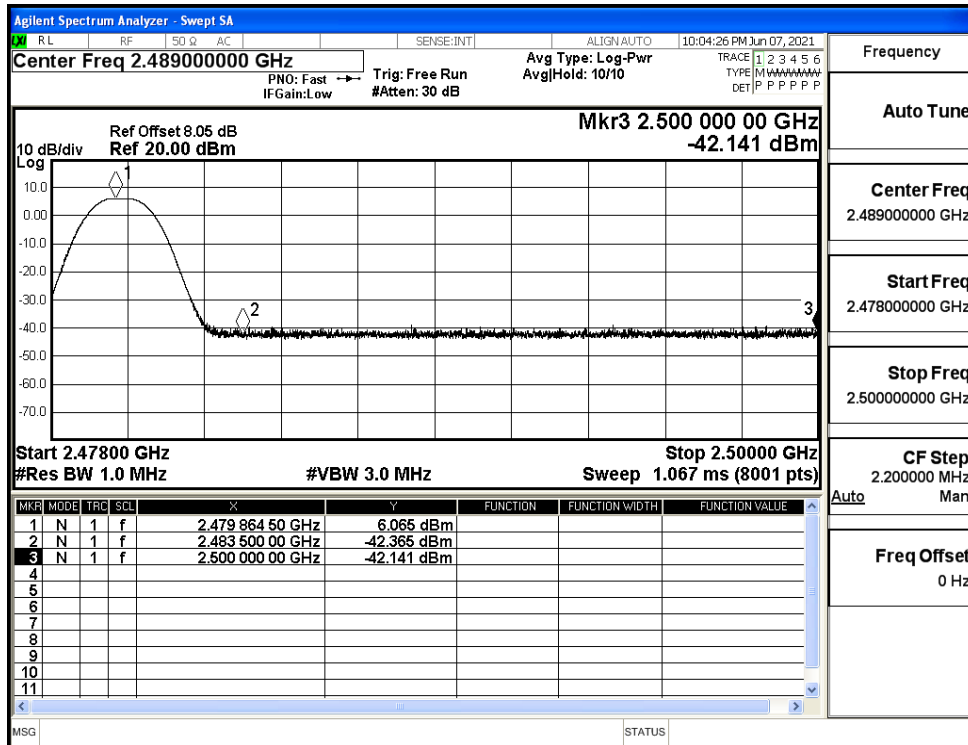
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

