

Appendix A

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

Product Name: Remote Shutter

Trade Mark: NEEWER

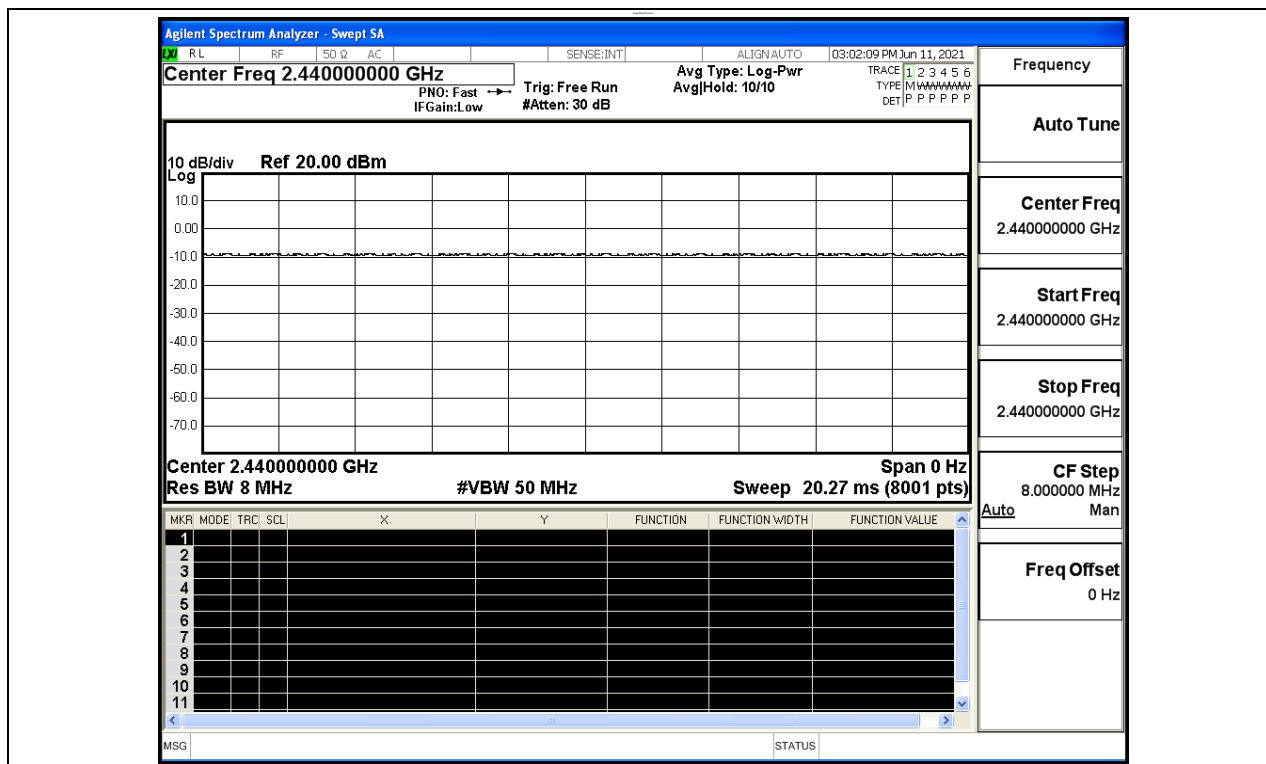
Test Model: RT-107

Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

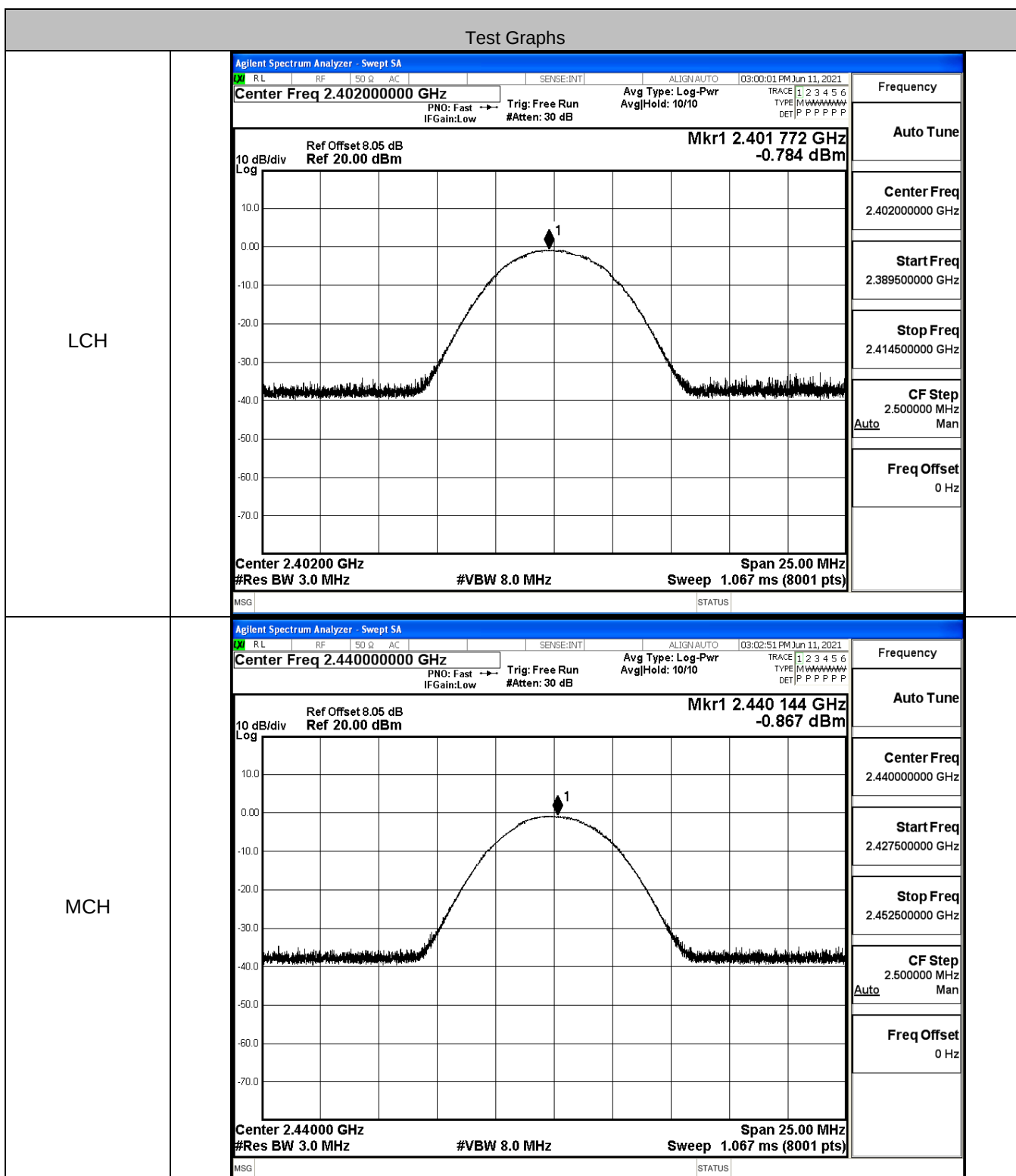
A.1 Duty Cycle

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

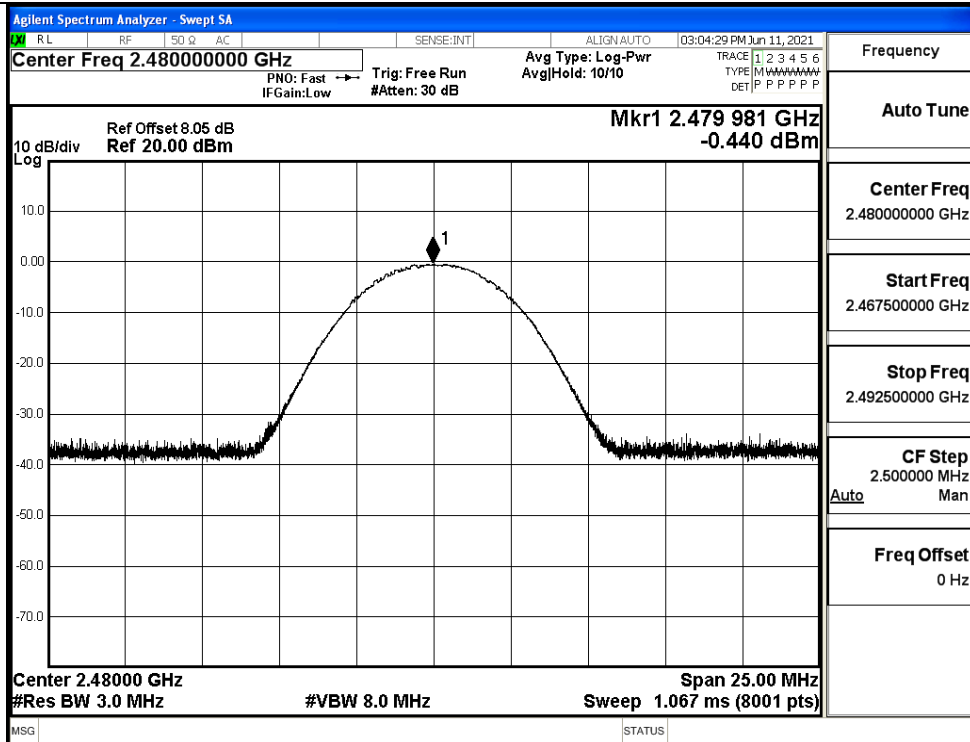


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.784	30	PASS
BT LE	MCH	-0.867	30	PASS
BT LE	HCH	-0.440	30	PASS



HCH

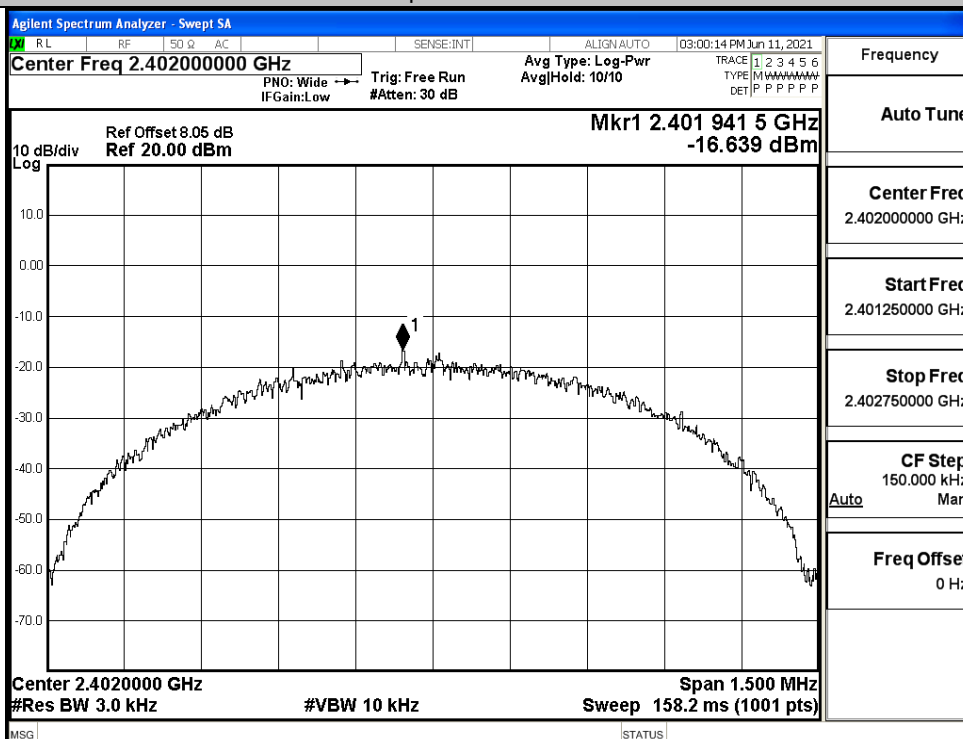


A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.639	8	PASS
BT LE	MCH	-16.592	8	PASS
BT LE	HCH	-17.510	8	PASS

Test Graphs

LCH

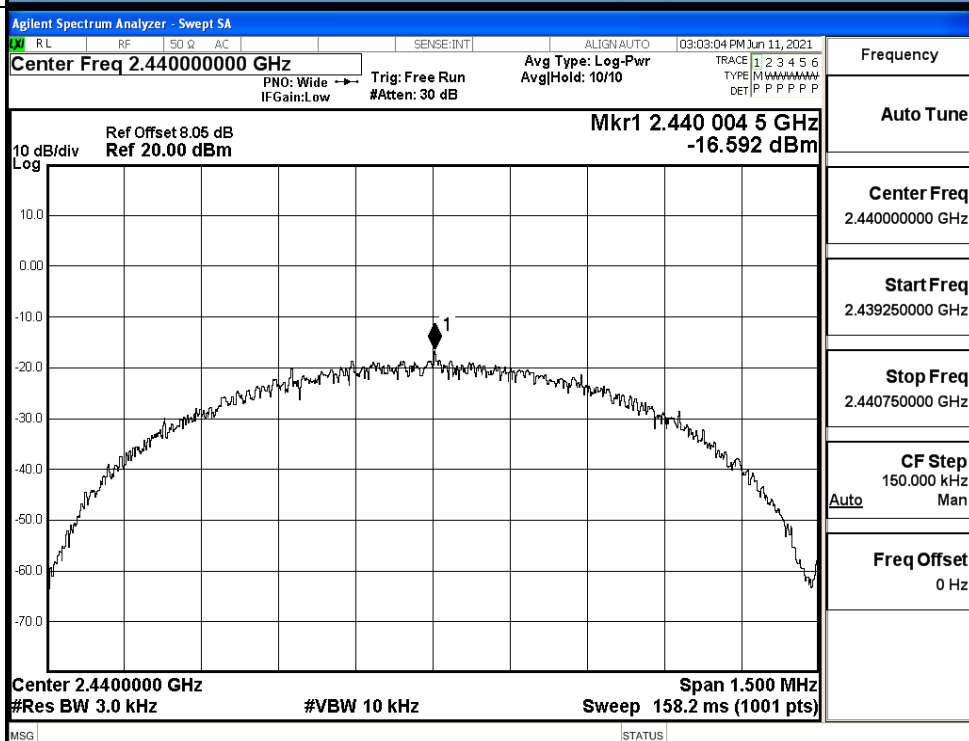


Frequency

Auto Tune

Center Freq
2.402000000 GHzStart Freq
2.401250000 GHzStop Freq
2.402750000 GHzCF Step
150.000 kHz
Auto ManFreq Offset
0 Hz

MCH

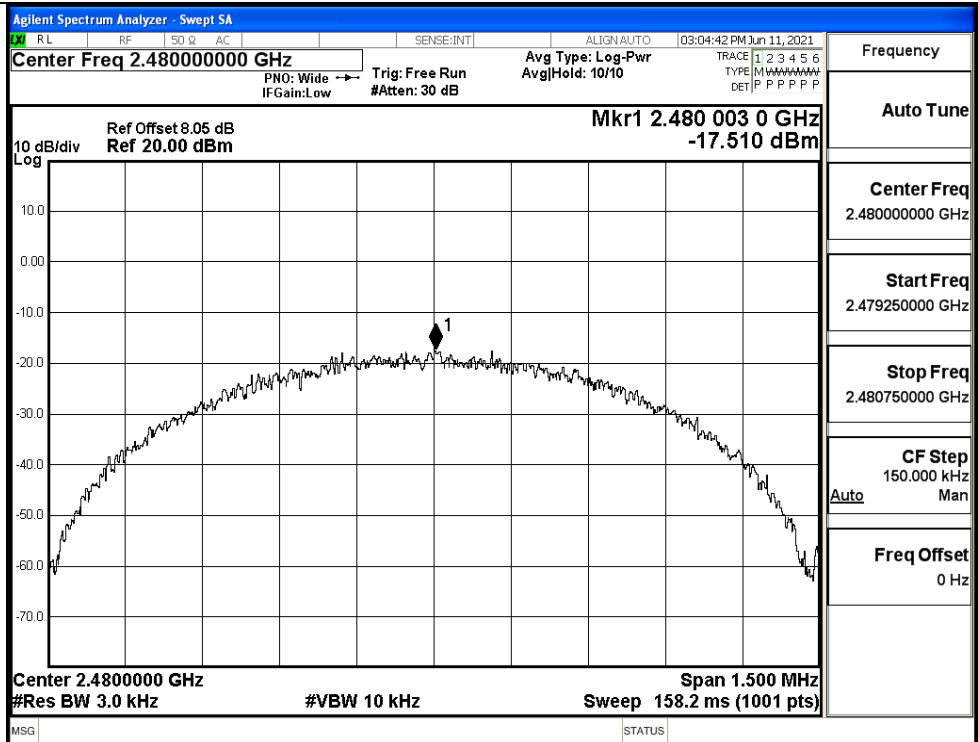


Frequency

Auto Tune

Center Freq
2.440000000 GHzStart Freq
2.439250000 GHzStop Freq
2.440750000 GHzCF Step
150.000 kHz
Auto ManFreq Offset
0 Hz

HCH

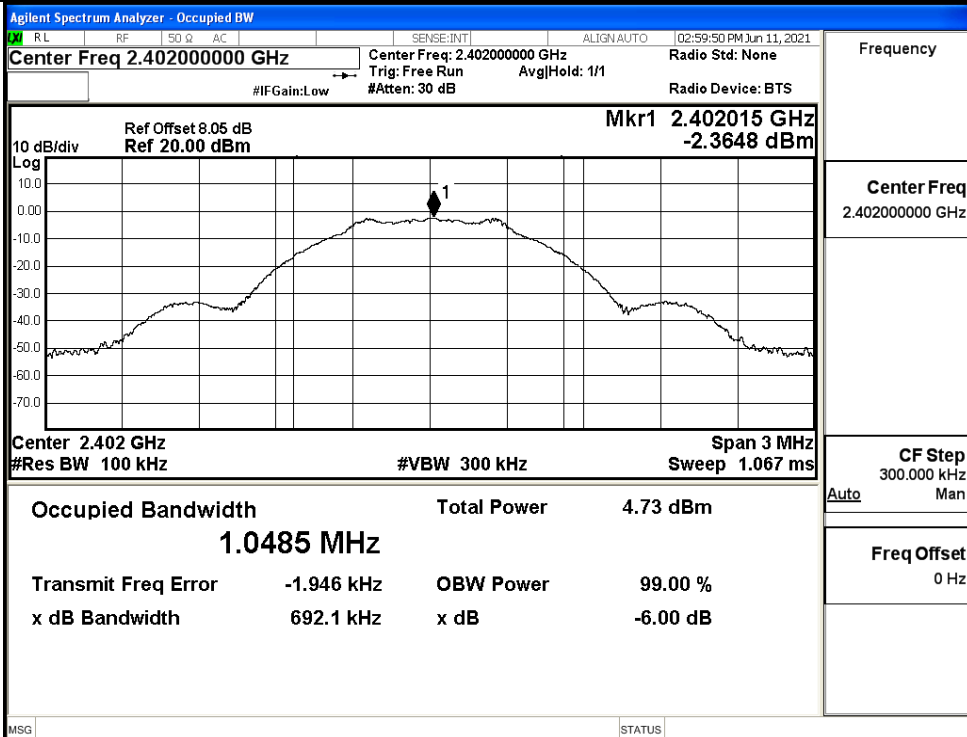


A.4 6dB Bandwidth

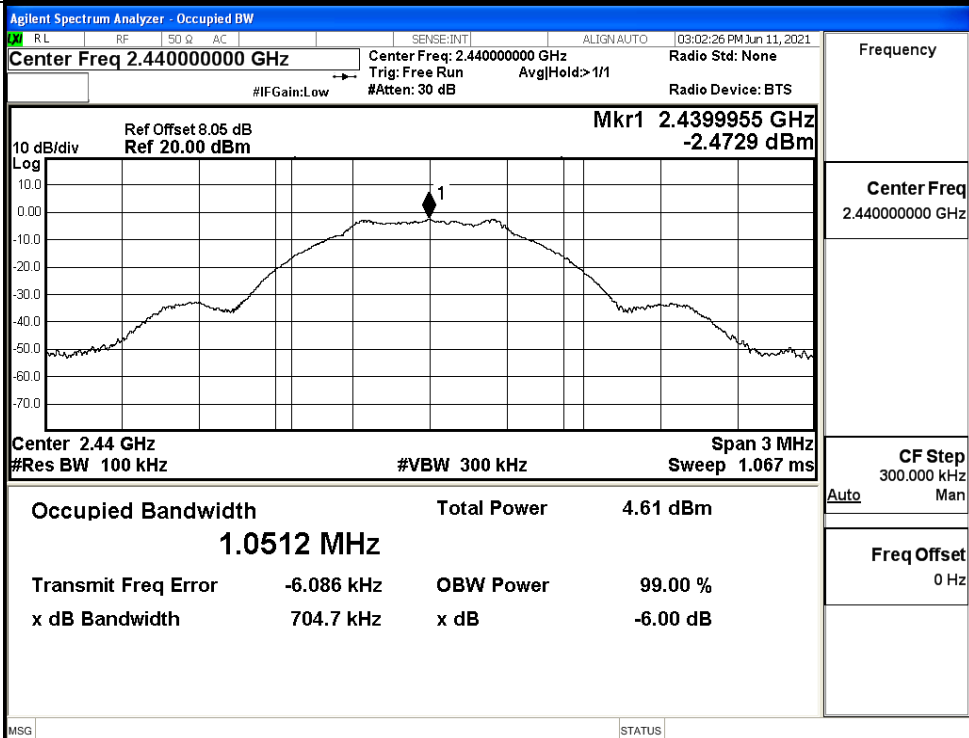
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6921	≥ 0.5	PASS
BT LE	MCH	0.7047	≥ 0.5	PASS
BT LE	HCH	0.6836	≥ 0.5	PASS

Test Graphs

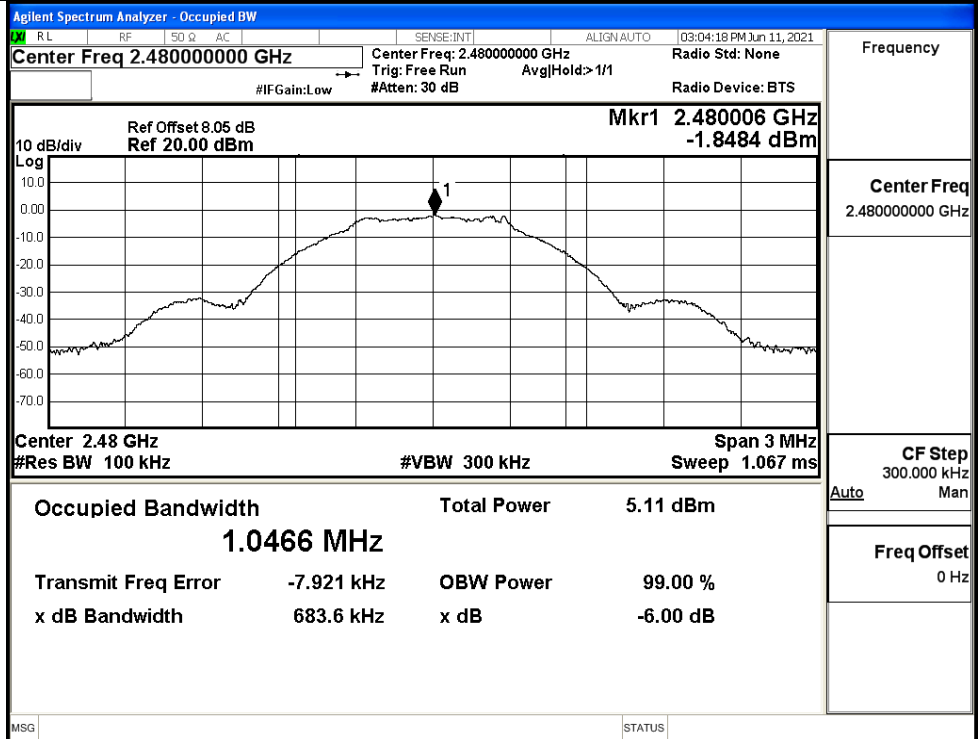
LCH



MCH



HCH

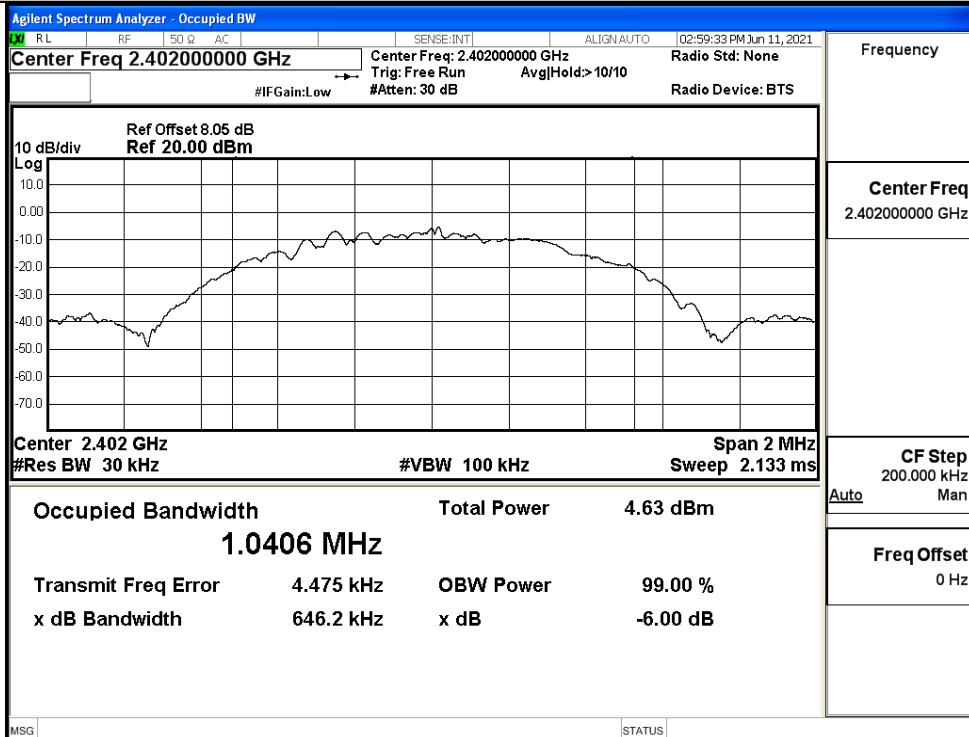


A.5 Occupied Bandwidth

Mode	Channel	Occupied Bandwidth [MHz]	Verdict
BT LE	LCH	1.0406	PASS
BT LE	MCH	1.0426	PASS
BT LE	HCH	1.0360	PASS

Test Graphs

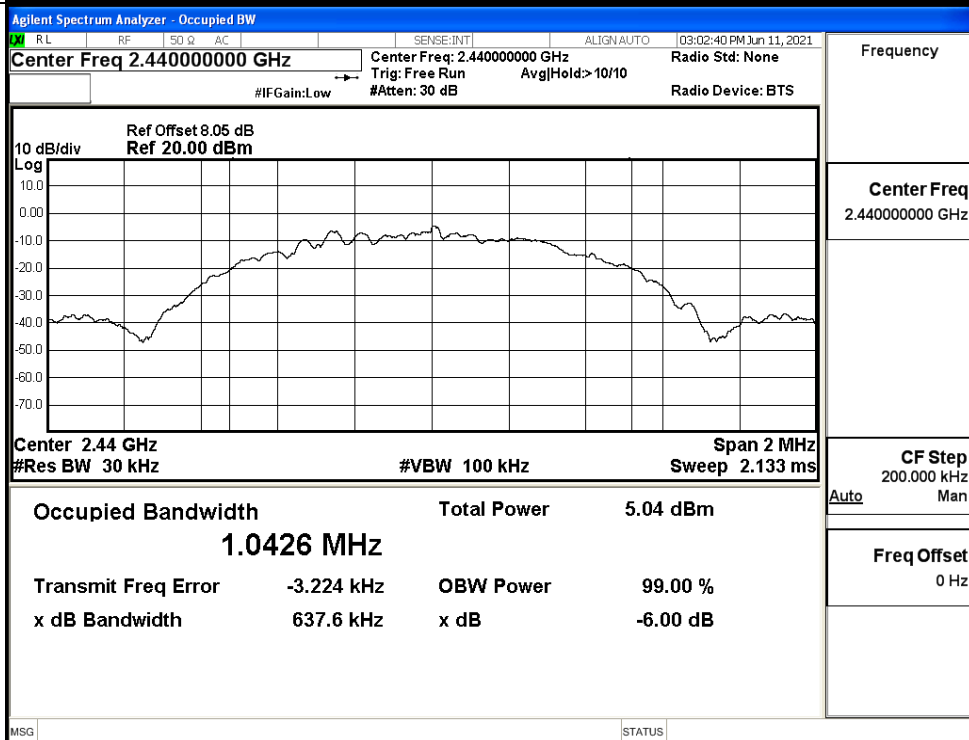
LCH



Frequency

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

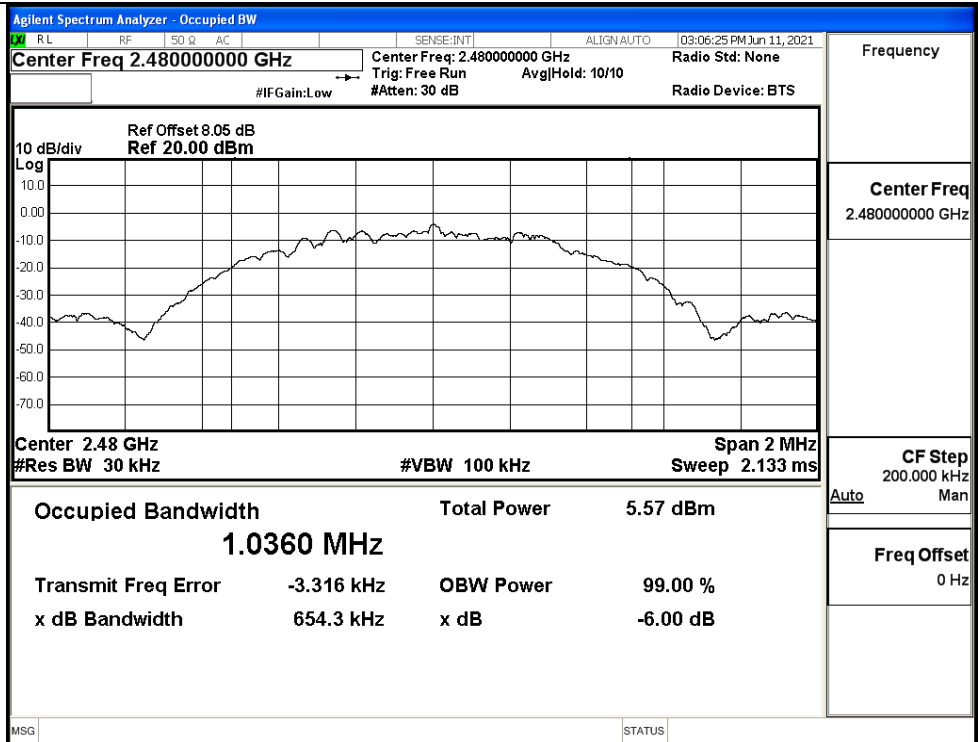
MCH



Frequency

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

HCH

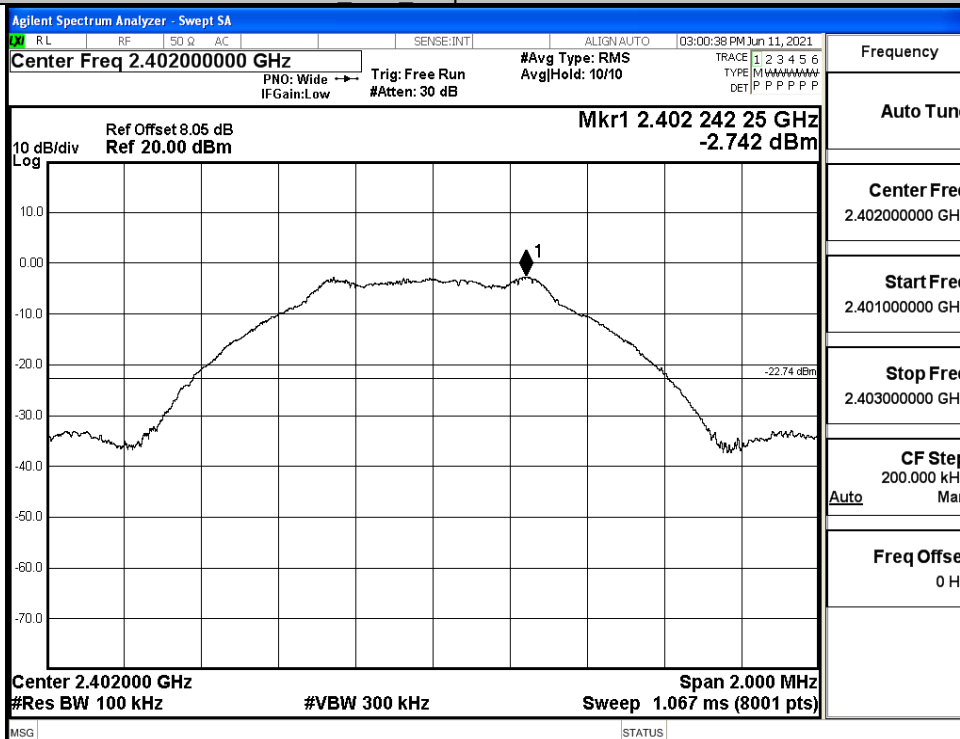


A.6 RF Conducted Spurious Emissions

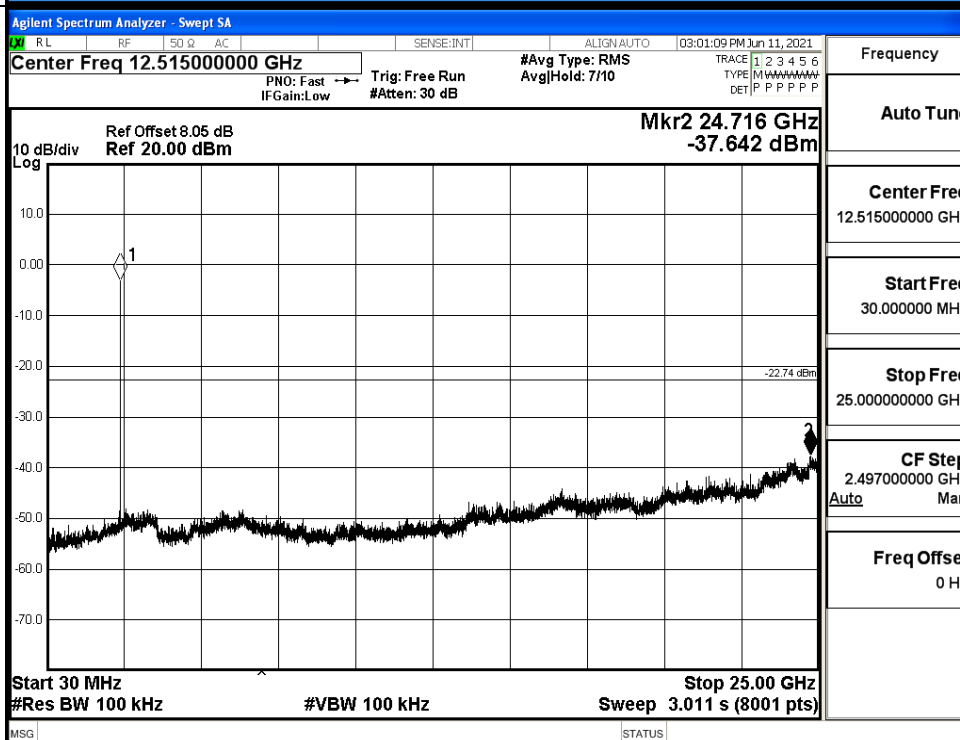
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.742	-37.642	-22.742	PASS
BT LE	MCH	-2.385	-37.322	-22.385	PASS
BT LE	HCH	-1.426	-37.071	-21.426	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

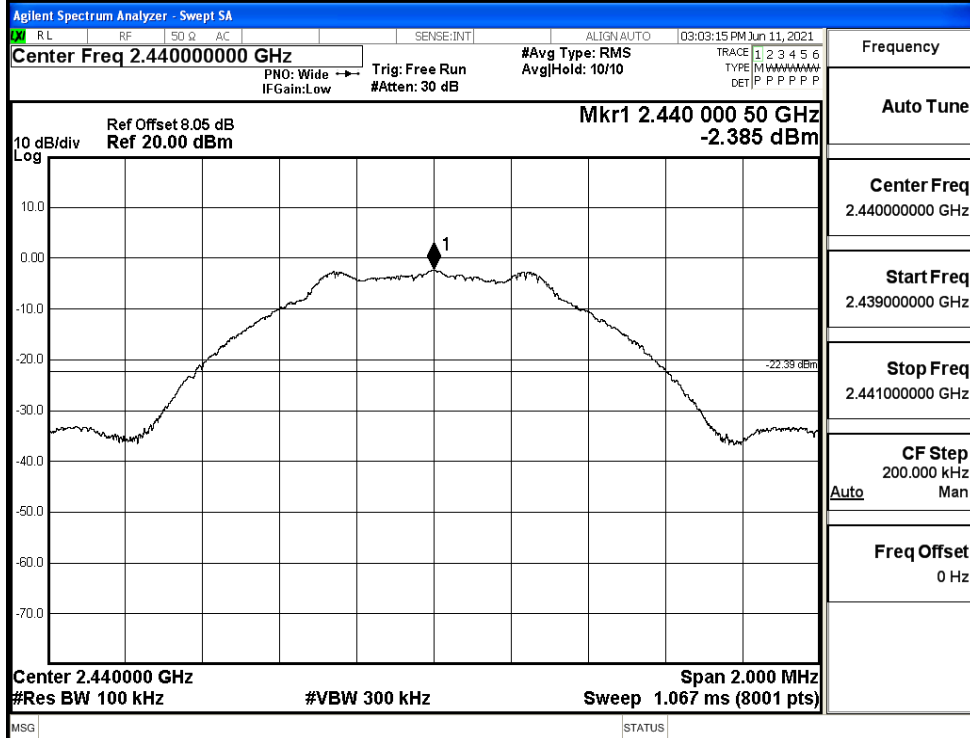


Puw/BT LE/LCH

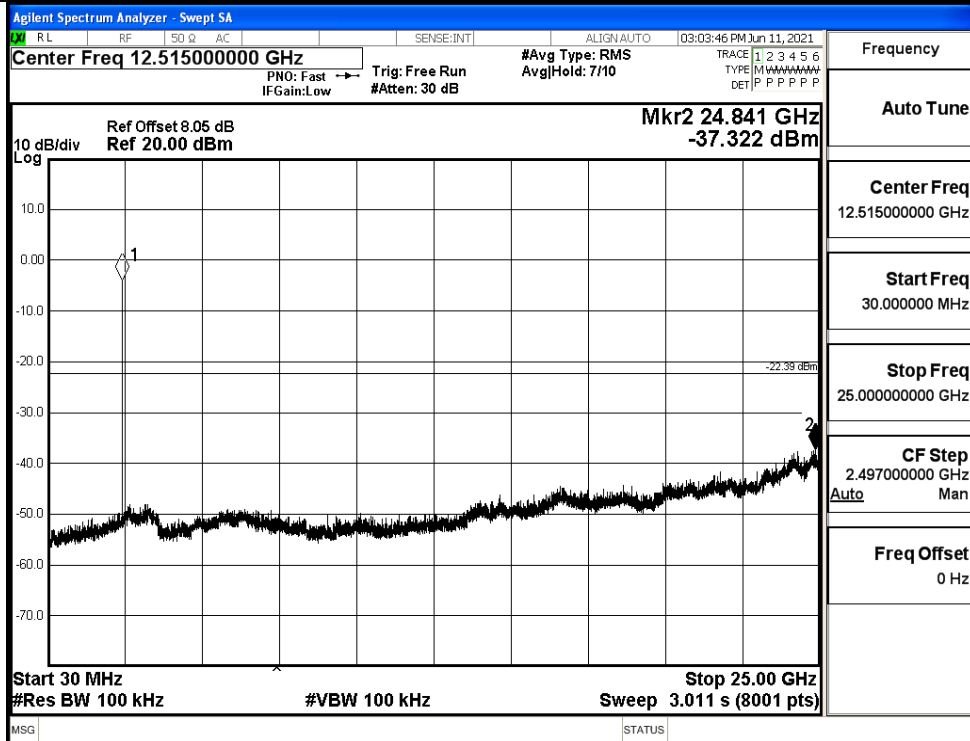


BT LE MCH Graphs

Pref/BT LE/MCH

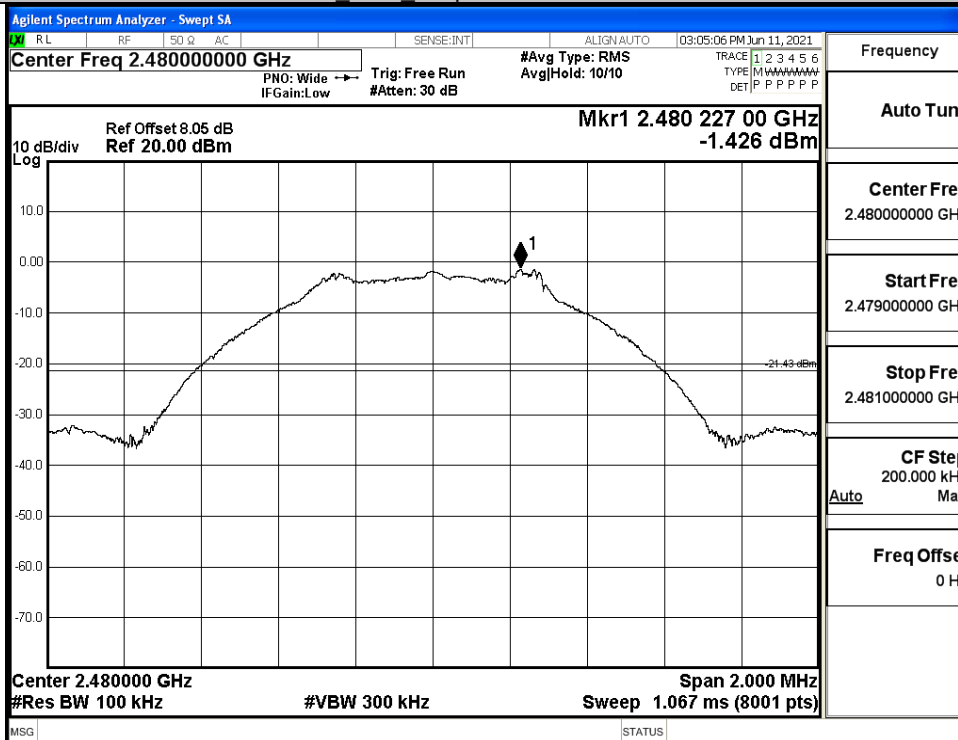


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

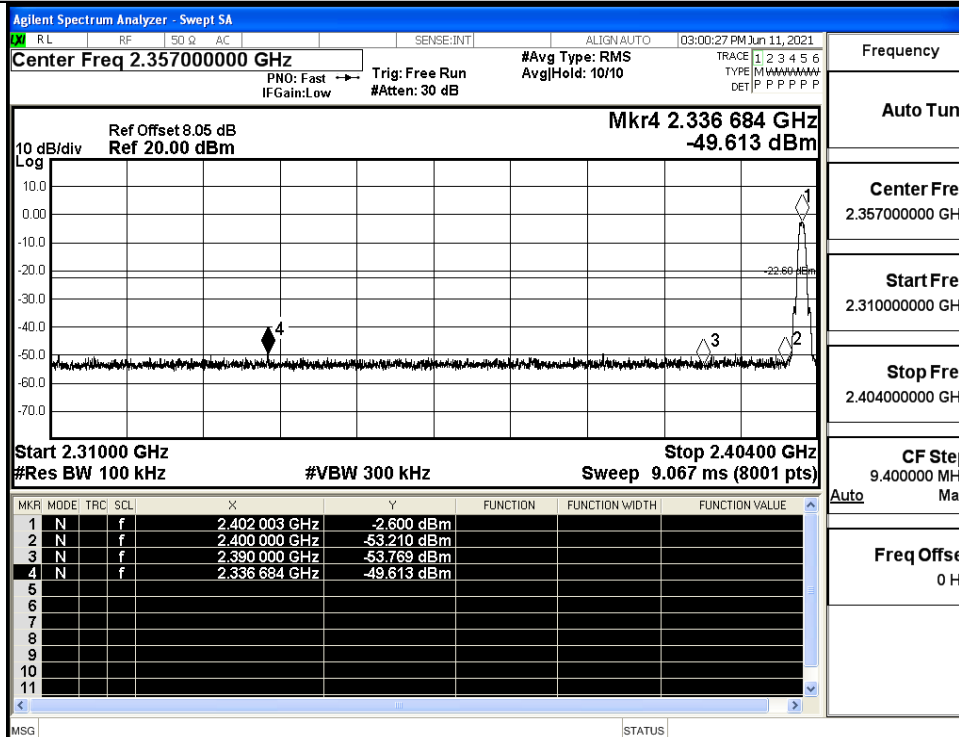


A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.600	-49.613	-22.6	PASS
BT LE	HCH	-1.015	-48.535	-21.02	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq
2.357000000 GHz

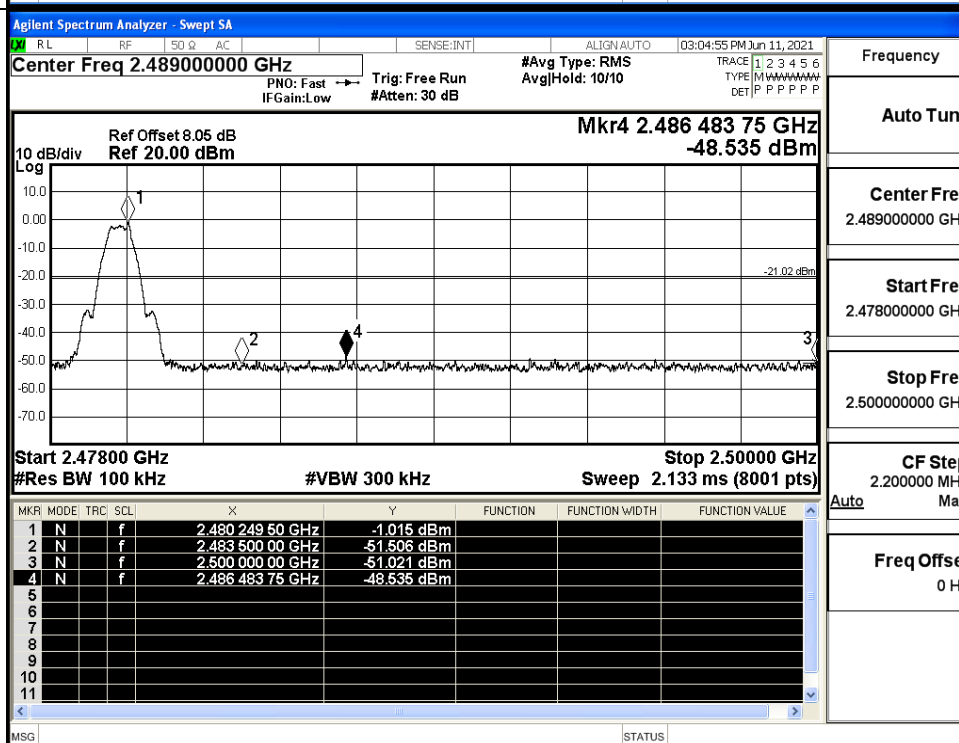
Start Freq
2.310000000 GHz

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

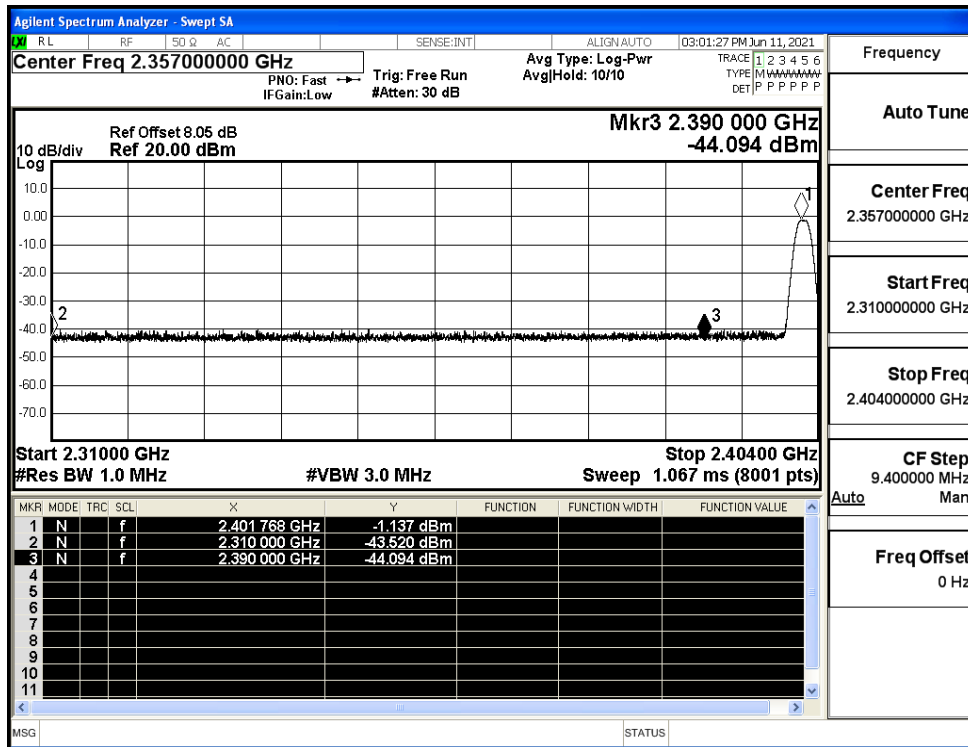
CF Step
2.200000 MHz

Freq Offset
0 Hz

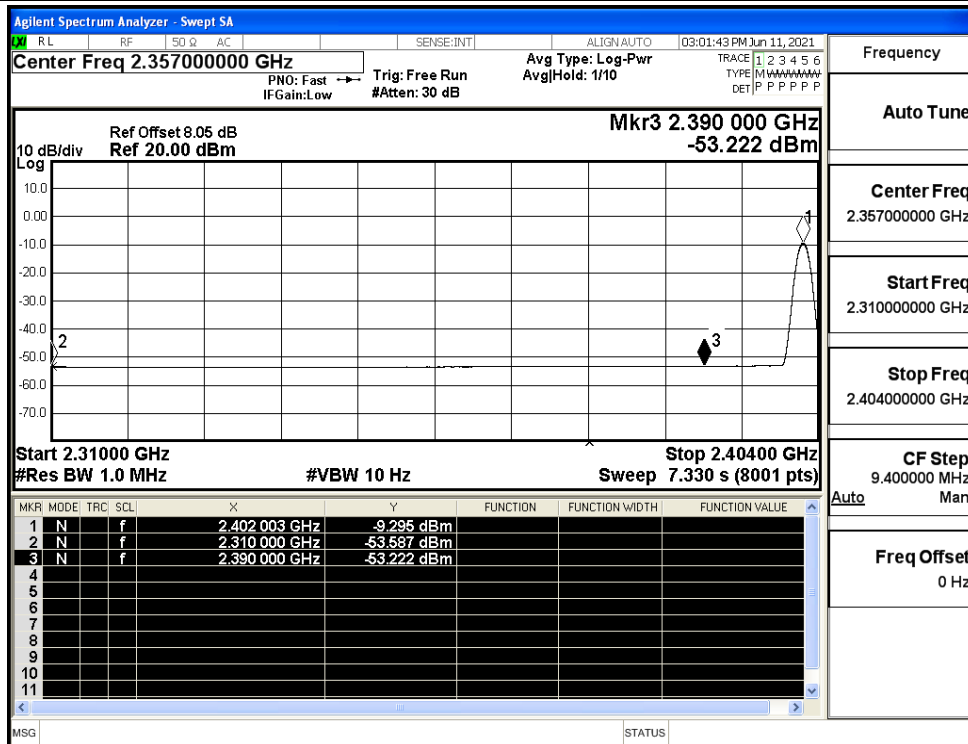
A.8 Restrict-band band-edge measurements

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	-43.52	2.0	0	53.74	PEAK	74	PASS
		Ant1	2310.0	-53.59	2.0	0	43.67	AV	54	PASS
		Ant1	2390.0	-44.09	2.0	0	53.17	PEAK	74	PASS
		Ant1	2390.0	-53.22	2.0	0	44.04	AV	54	PASS
	2480	Ant1	2483.5	-42.34	2.0	0	54.92	PEAK	74	PASS
		Ant1	2483.5	-52.75	2.0	0	44.51	AV	54	PASS
		Ant1	2500.0	-42.63	2.0	0	54.63	PEAK	74	PASS
		Ant1	2500.0	-52.57	2.0	0	44.69	AV	54	PASS

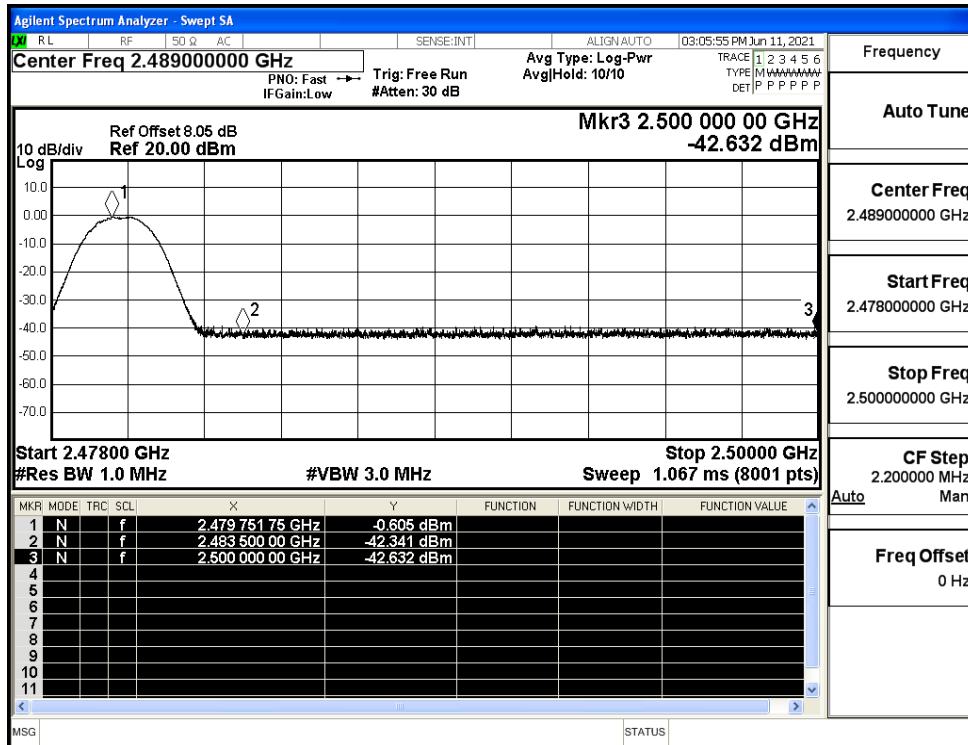
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

