

Appendix B

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

Product Name: IPTV Receiver

Trade Mark: FORMULER

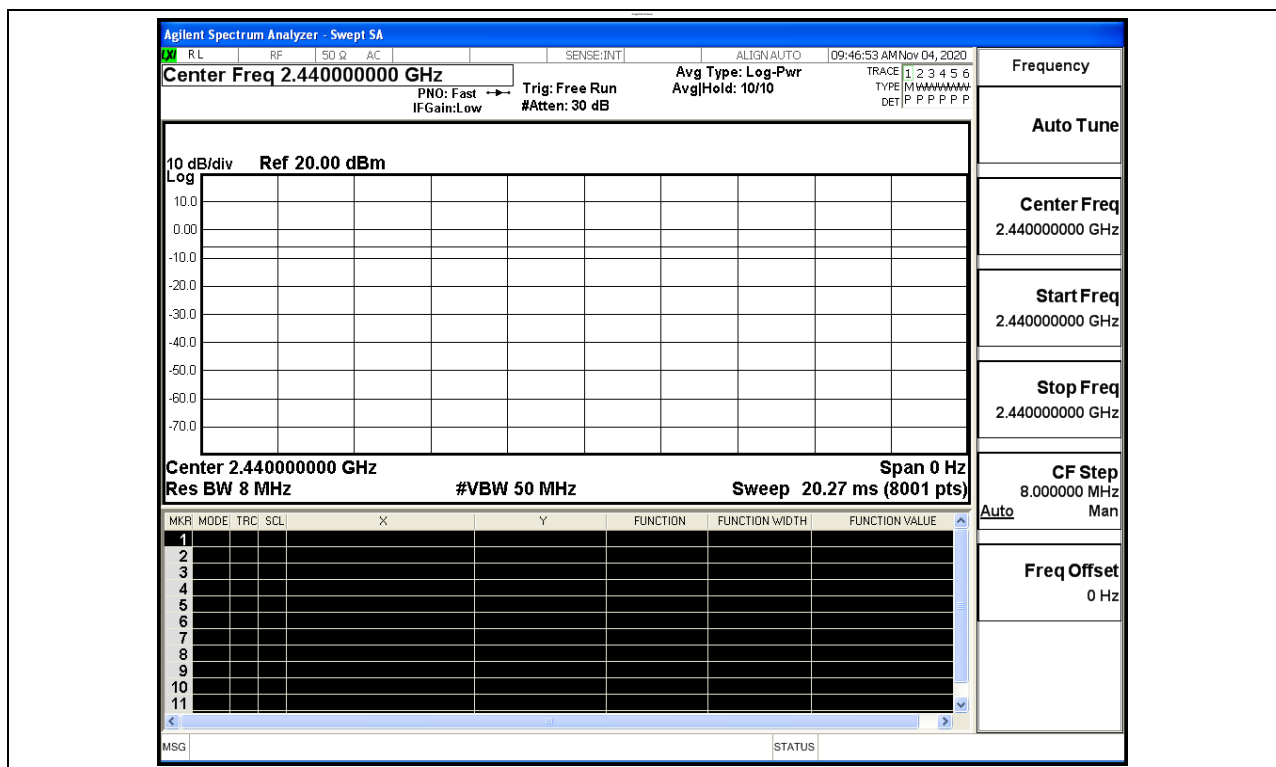
Test Model: Z ALPHA

Environmental Conditions

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

B.1 Duty Cycle

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

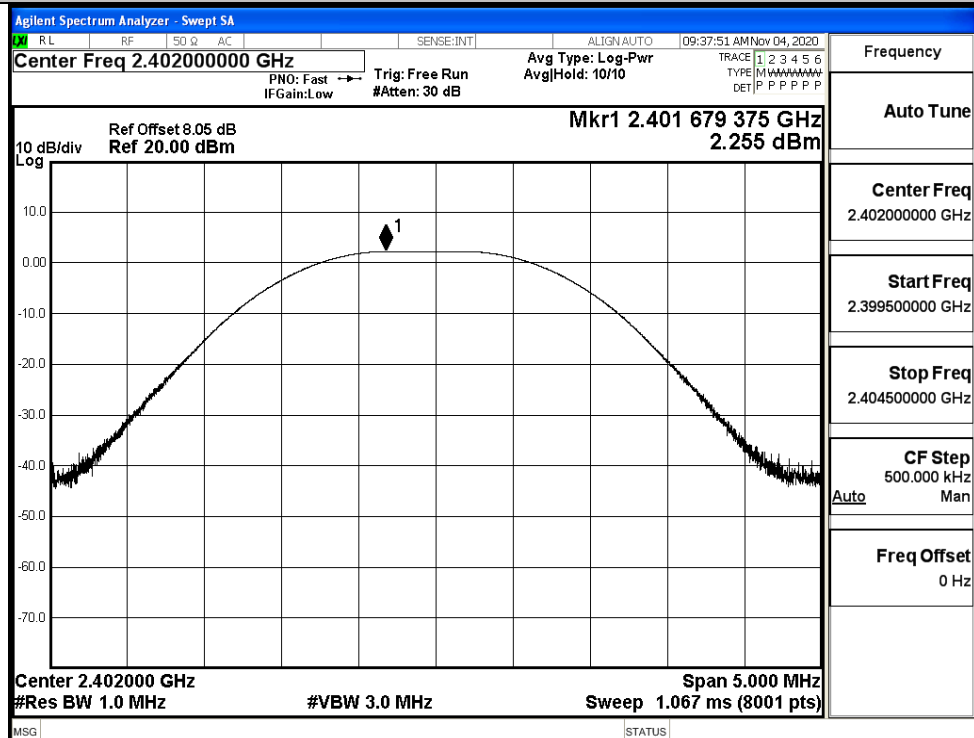


B.2 Maximum Conducted Peak Output Power

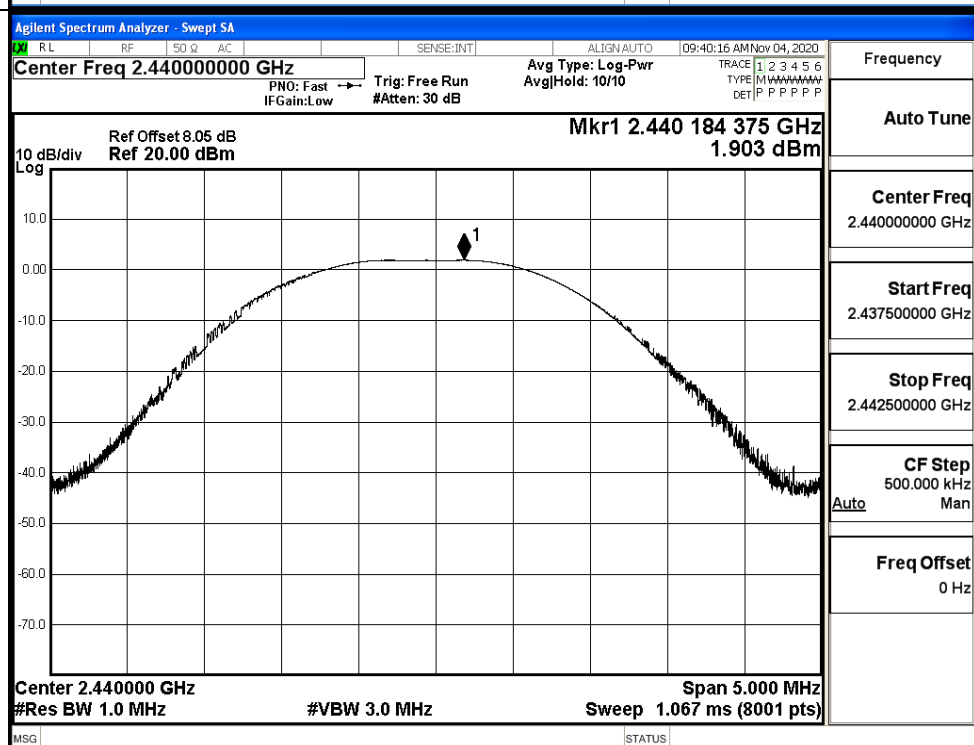
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.255	30	PASS
BT LE	MCH	1.903	30	PASS
BT LE	HCH	1.604	30	PASS

Test Graphs

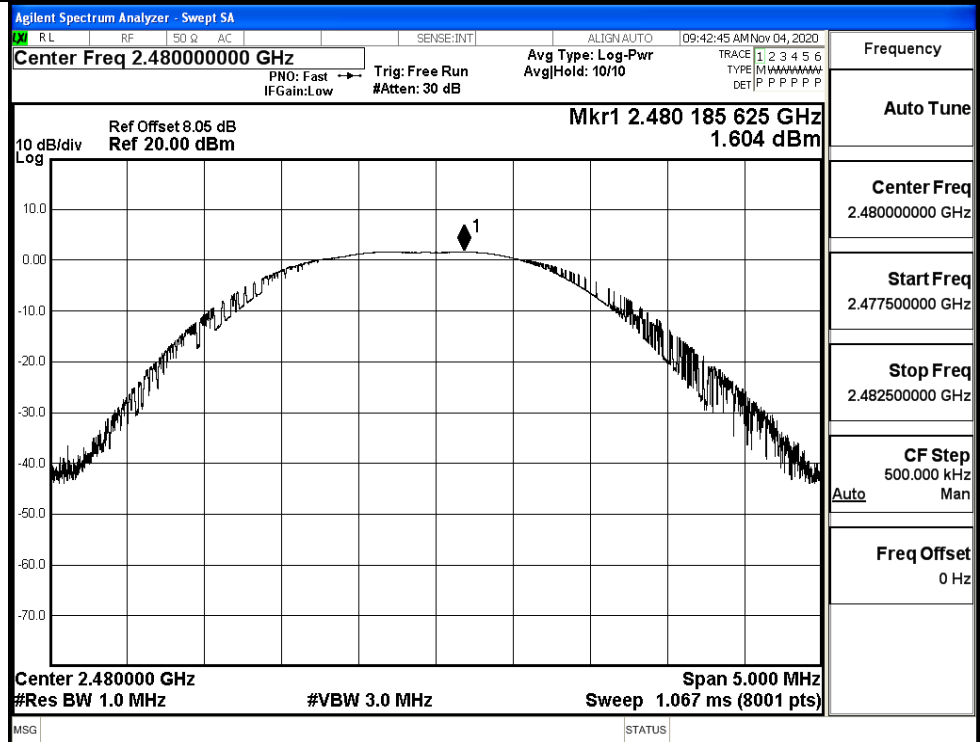
LCH



MCH



HCH

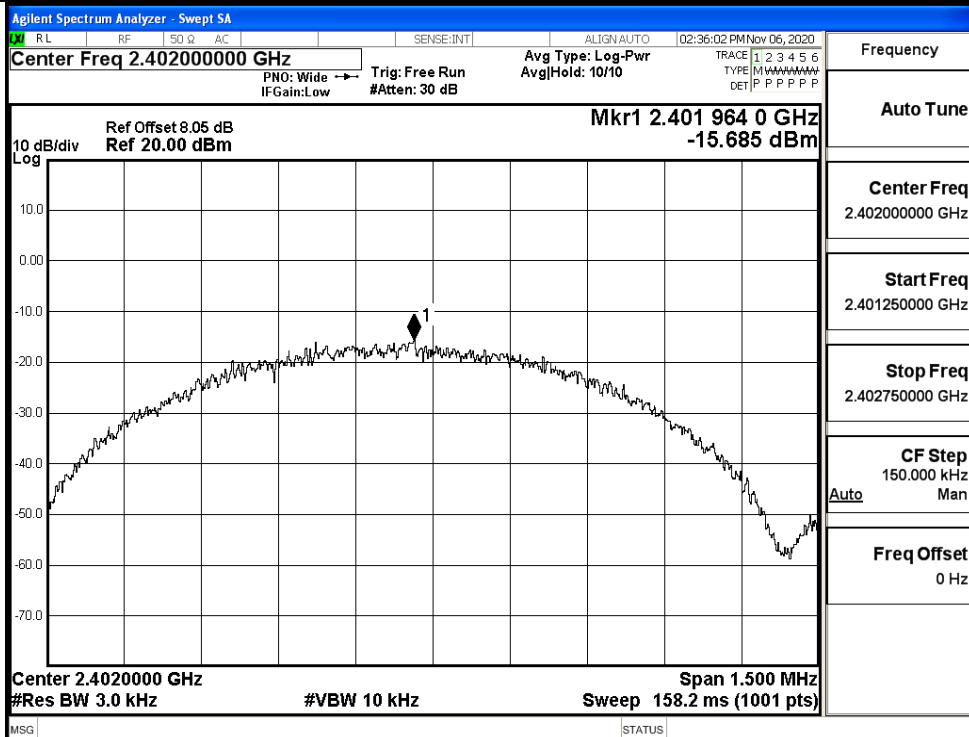


B.3 Maximum Power Spectral Density

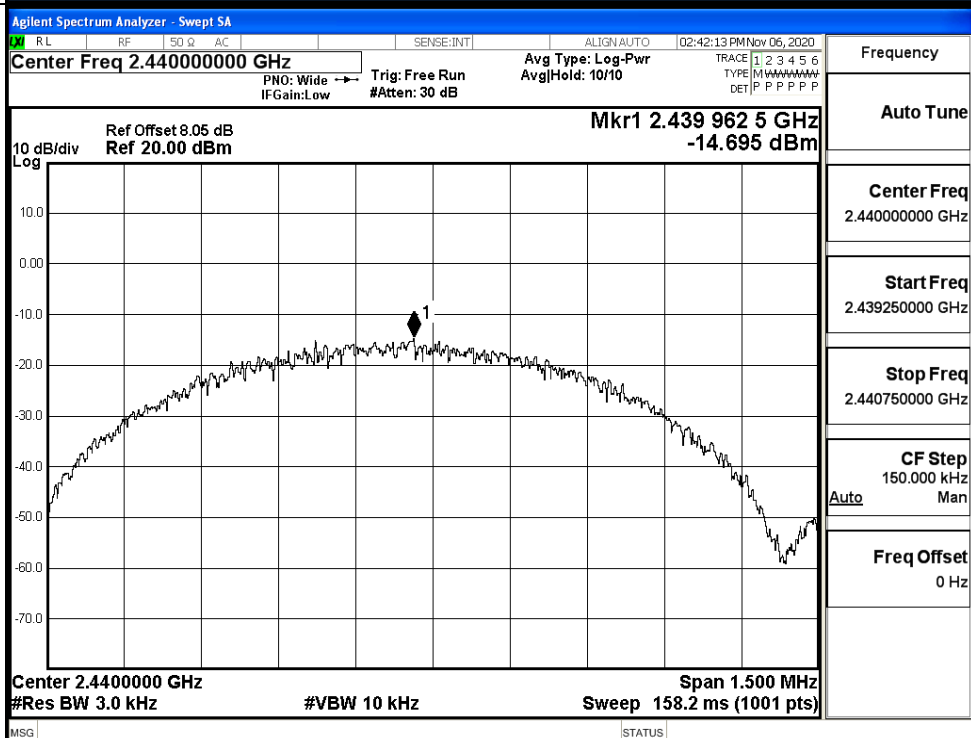
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.685	8	PASS
BT LE	MCH	-14.695	8	PASS
BT LE	HCH	-14.719	8	PASS

Test Graphs

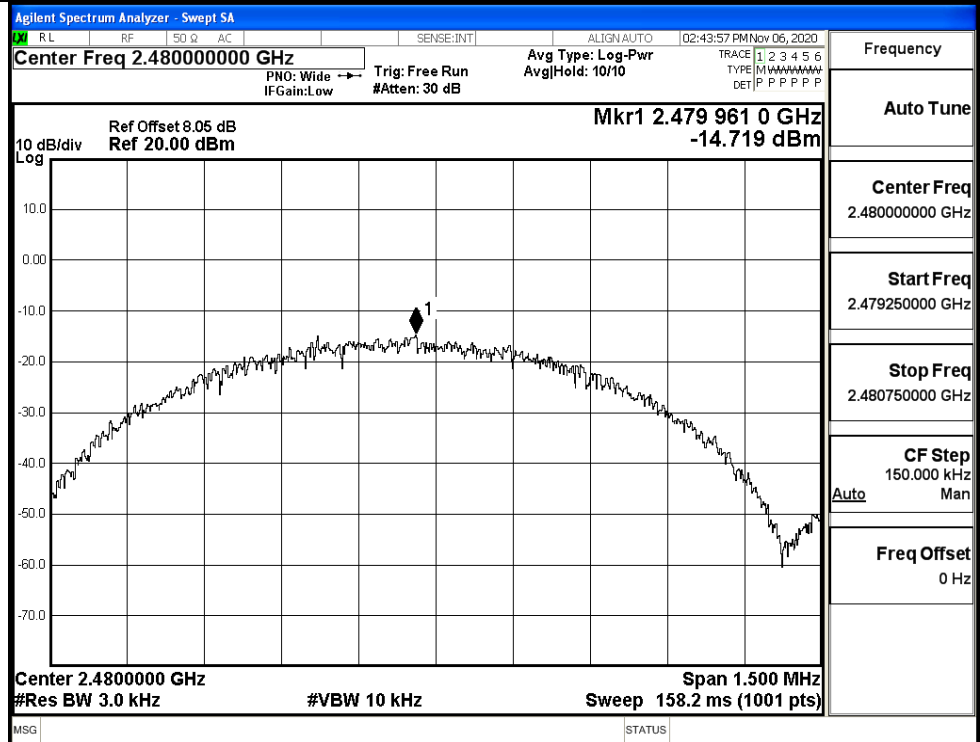
LCH



MCH



HCH

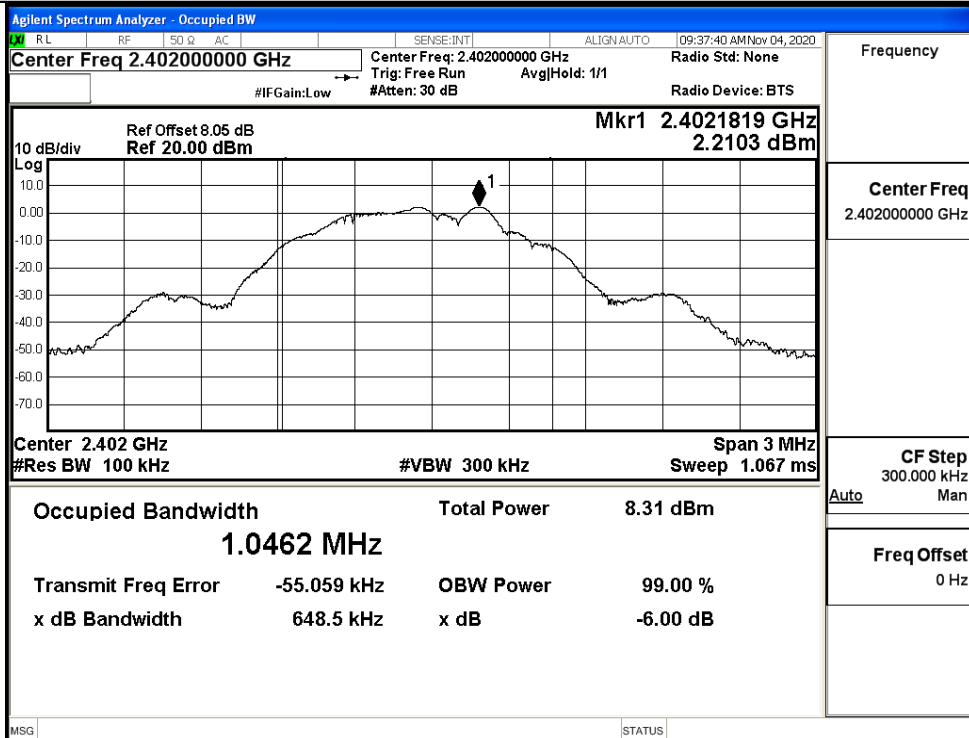


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6485	≥ 0.5	PASS
BT LE	MCH	0.6660	≥ 0.5	PASS
BT LE	HCH	0.7544	≥ 0.5	PASS

Test Graphs

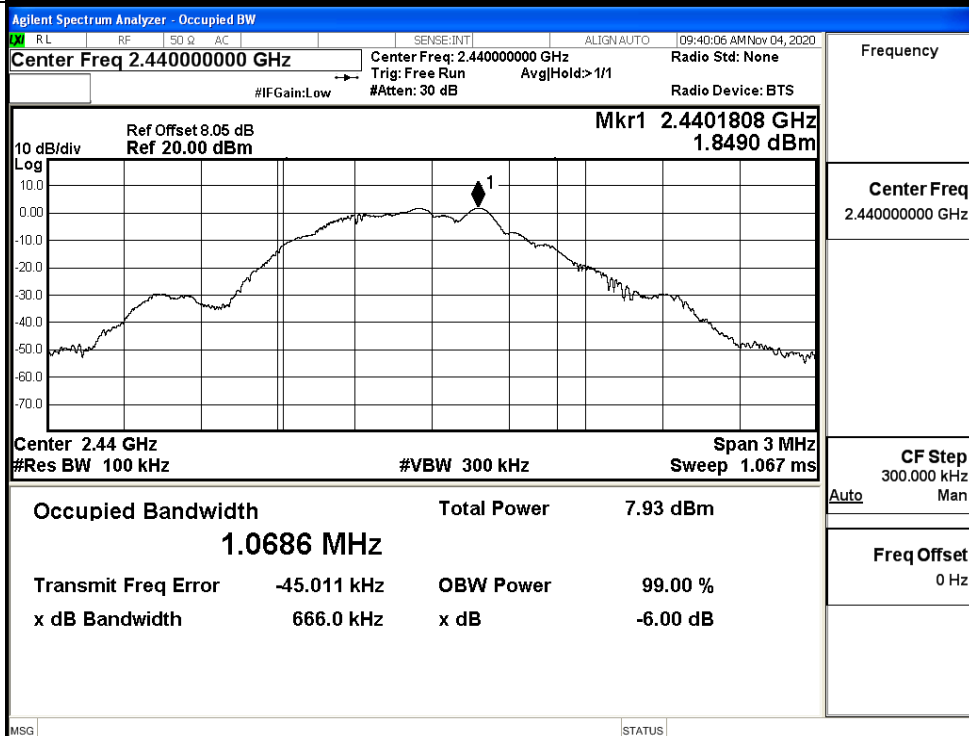
LCH



Frequency

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

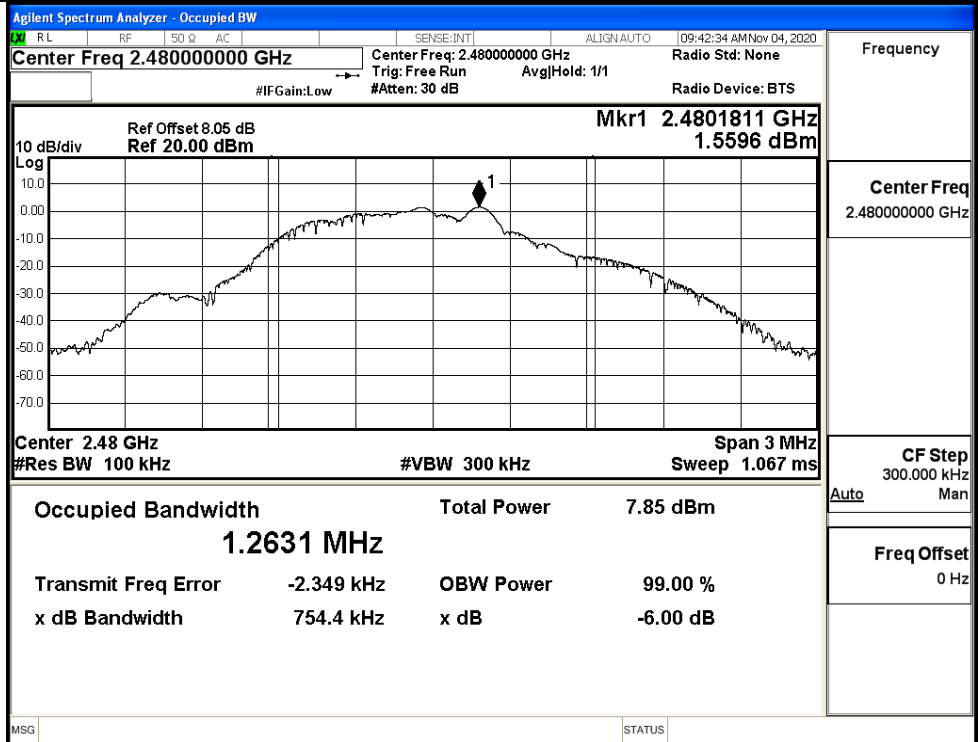
MCH



Frequency

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

HCH

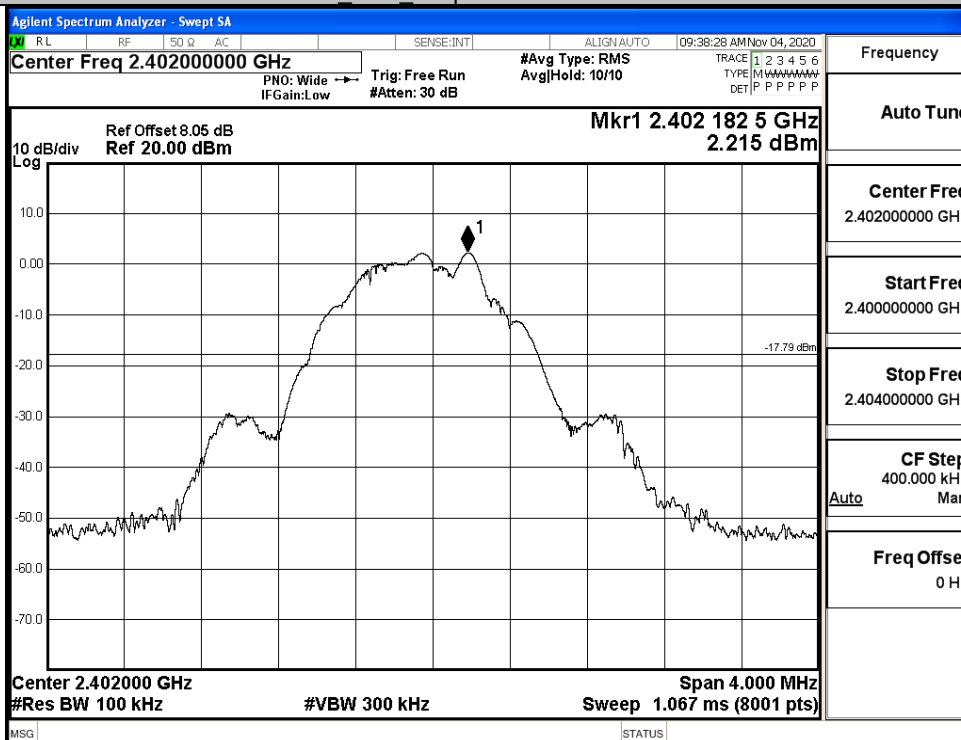


B.5 RF Conducted Spurious Emissions

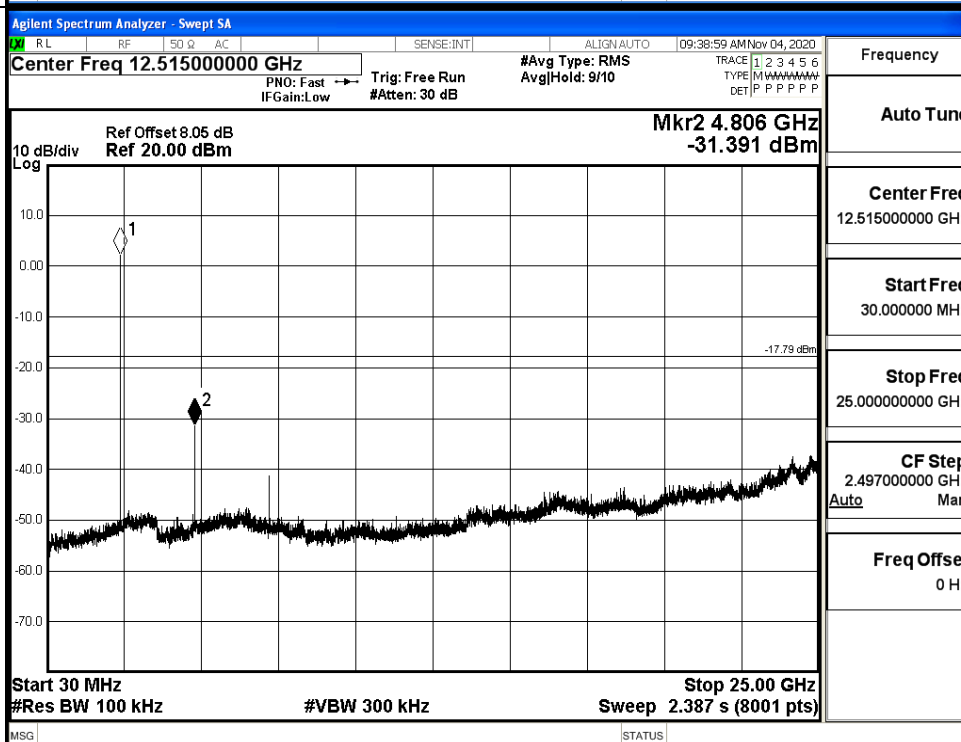
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.215	-31.391	-17.785	PASS
BT LE	MCH	1.872	-31.725	-18.128	PASS
BT LE	HCH	1.575	-31.730	-18.425	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

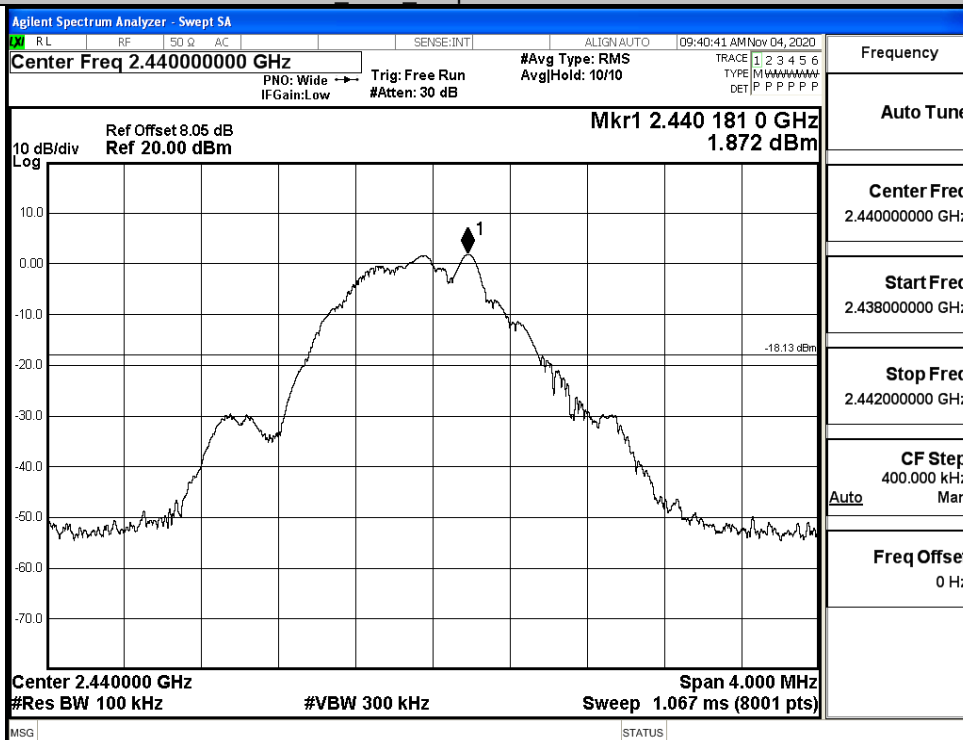


Puw/BT LE/LCH

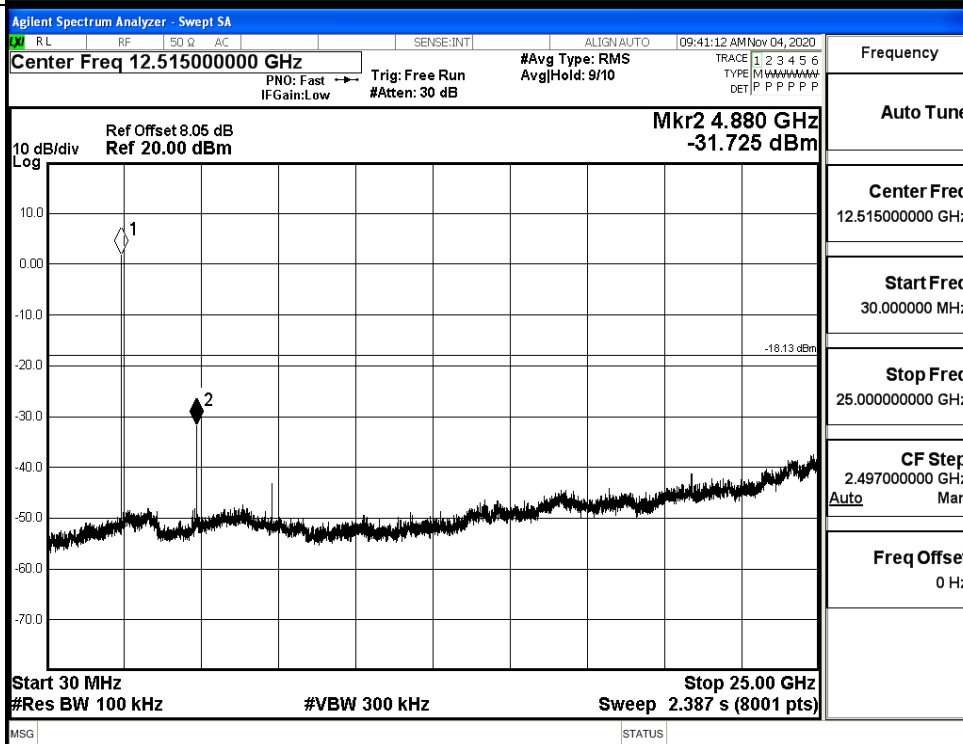


BT LE MCH Graphs

Pref/BT LE/MCH

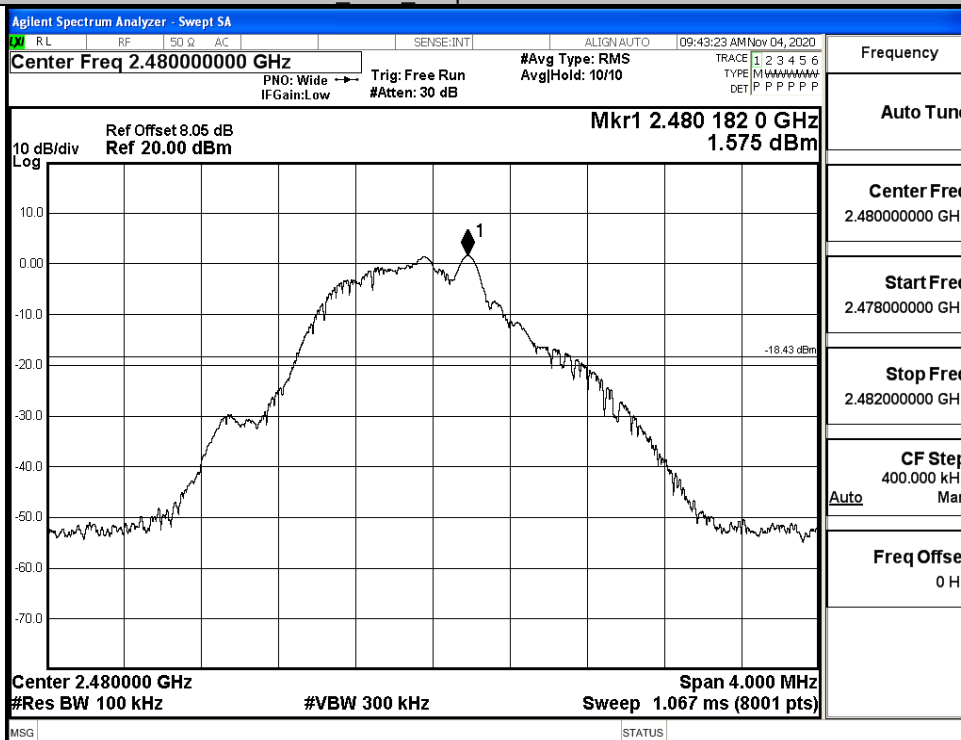


Puw/BT LE/MCH

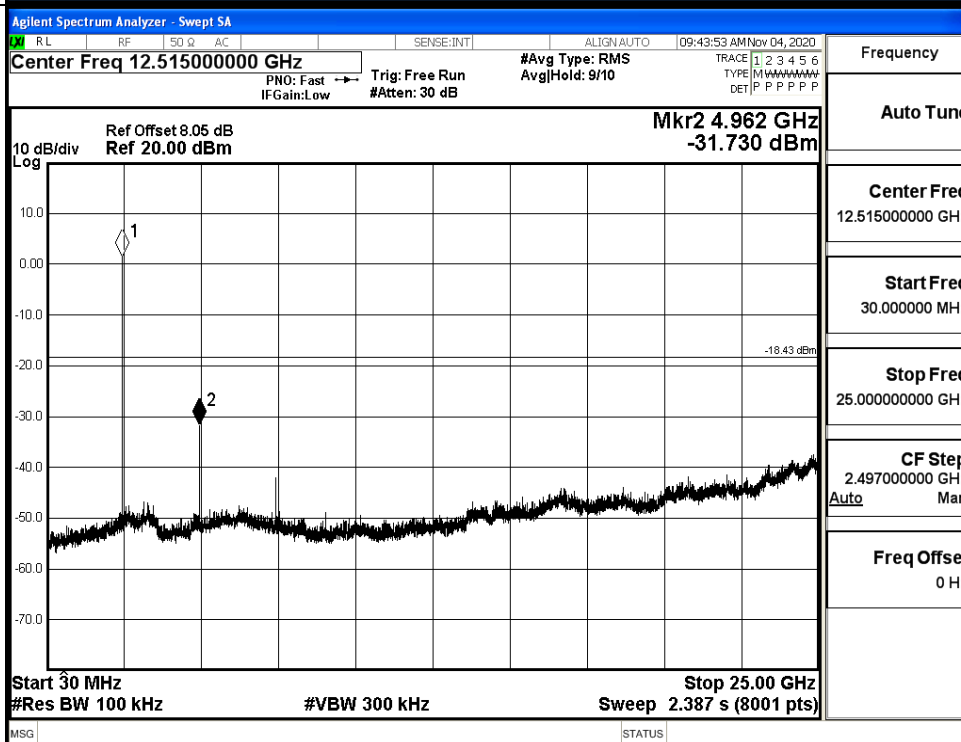


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

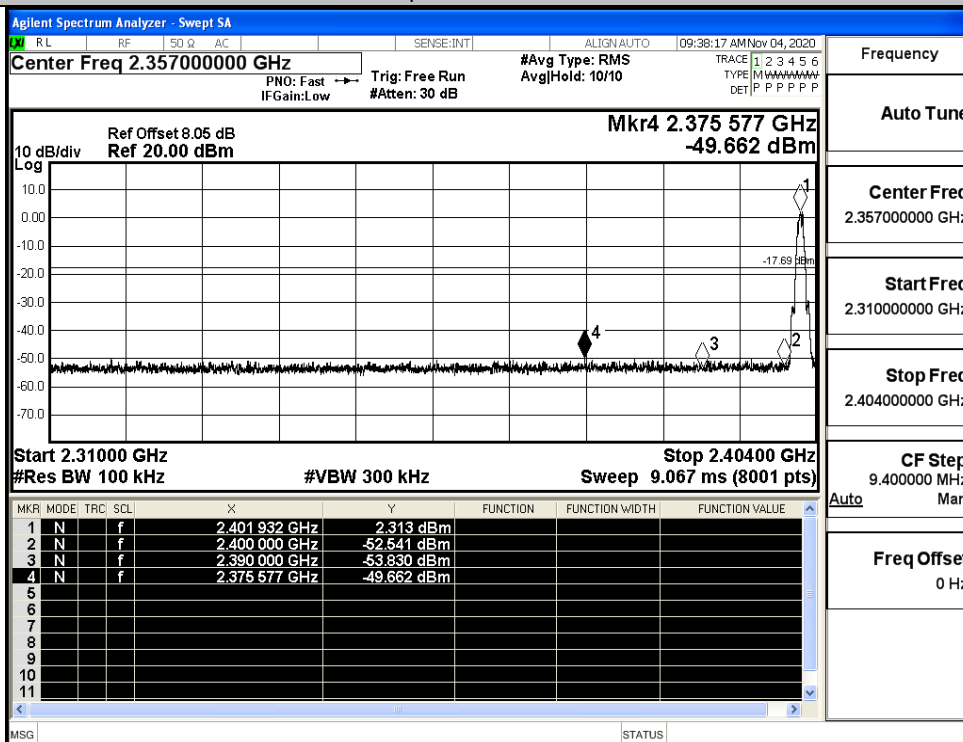


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.313	-49.662	-17.69	PASS
BT LE	HCH	1.624	-49.284	-18.38	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

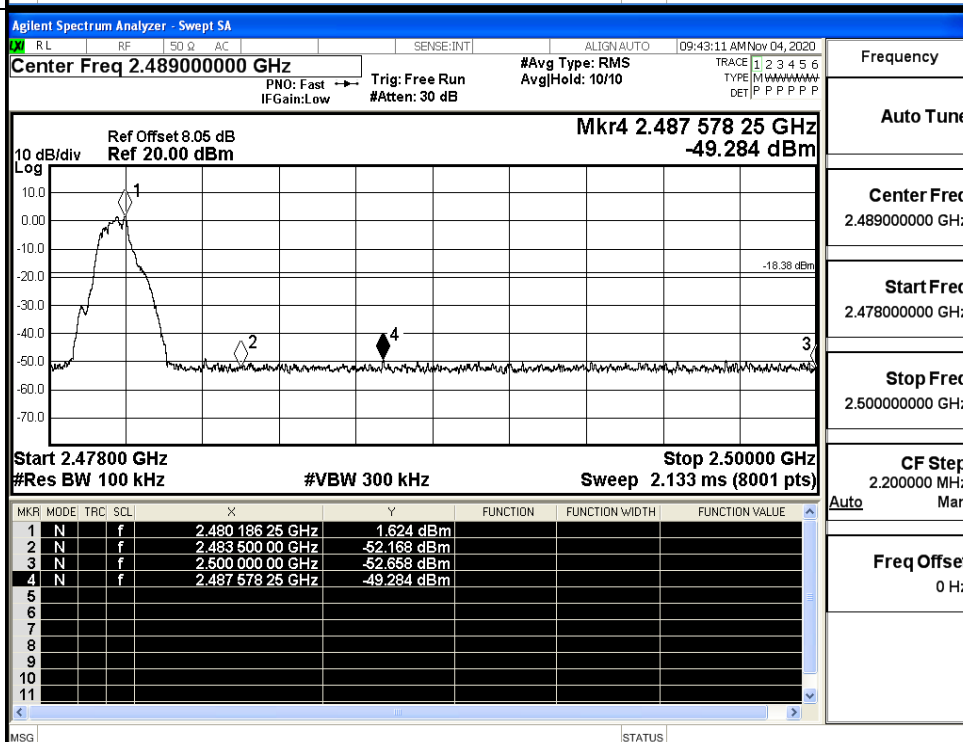
9.400000 MHz

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

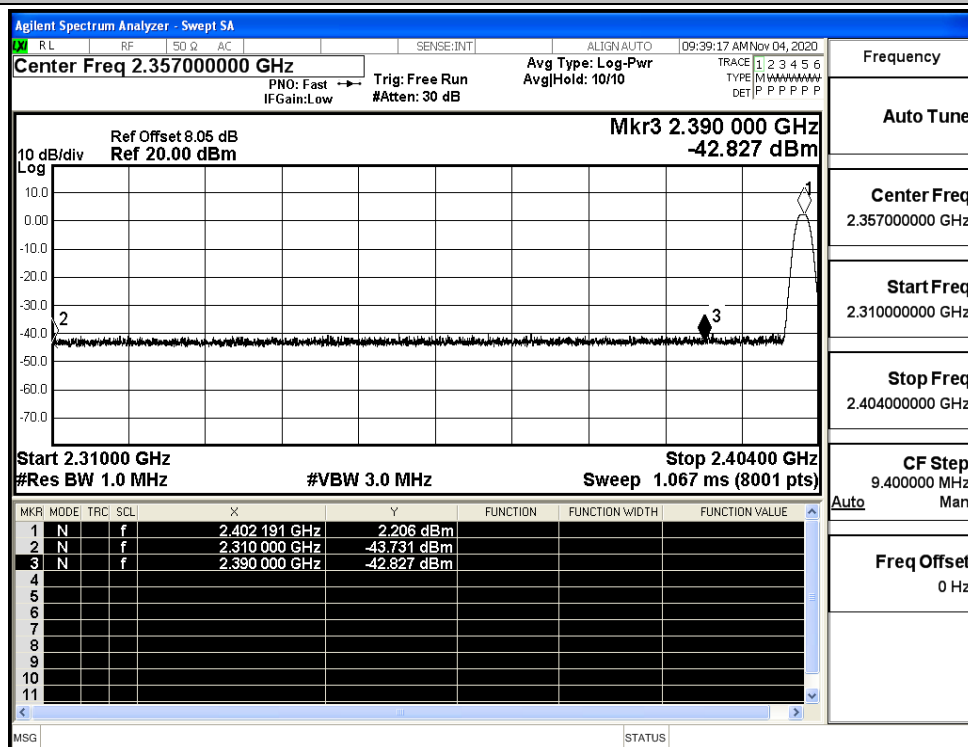
Freq Offset

0 Hz

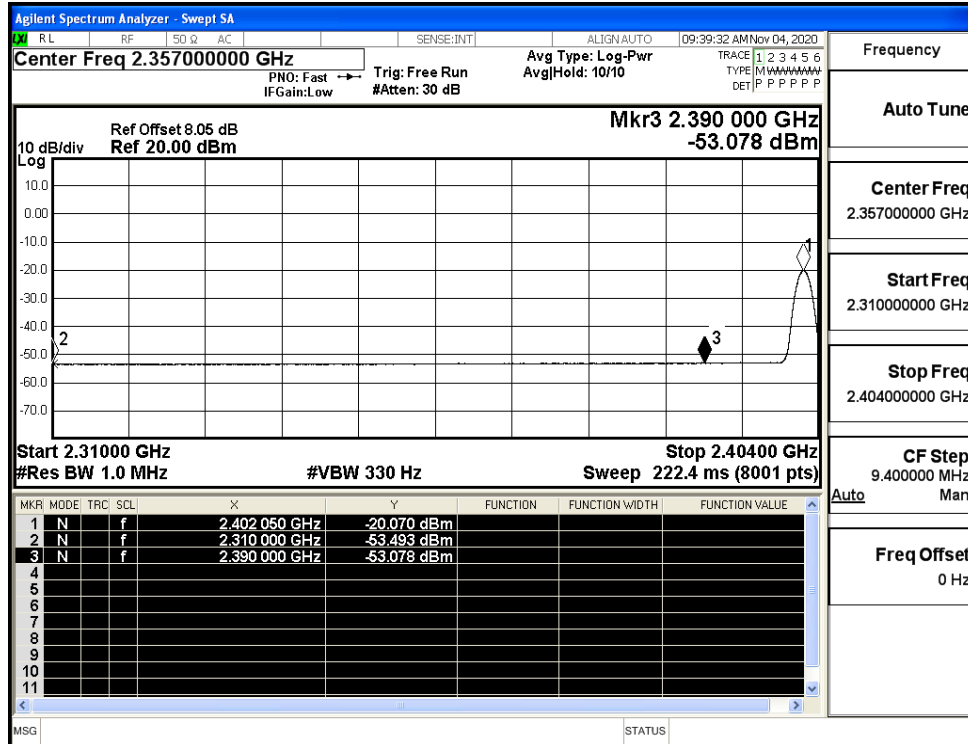
B.7 Restrict-band band-edge measurements

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	-43.73	2.0	0	51.53	PEAK	74	PASS
		Ant1	2310.0	-53.49	2.0	0	41.76	AV	54	PASS
		Ant1	2390.0	-42.83	2.0	0	52.43	PEAK	74	PASS
		Ant1	2390.0	-53.08	2.0	0	42.18	AV	54	PASS
	2480	Ant1	2483.5	-42.91	2.0	0	52.35	PEAK	74	PASS
		Ant1	2483.5	-52.59	2.0	0	42.67	AV	54	PASS
		Ant1	2500.0	-42.06	2.0	0	53.19	PEAK	74	PASS
		Ant1	2500.0	-52.43	2.0	0	42.83	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

