

Appendix A

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

Product Name: Clip Tag

Trade Mark: TraceSafe Technologies Inc.

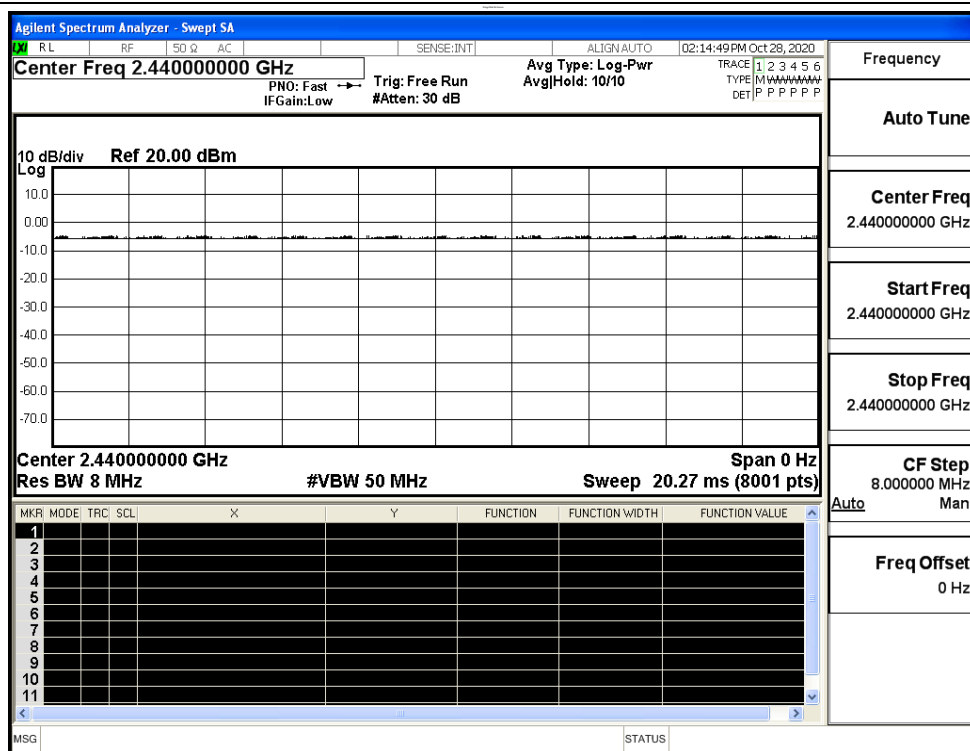
Test Model: TTAC

Environmental Conditions

Temperature:	22.4° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

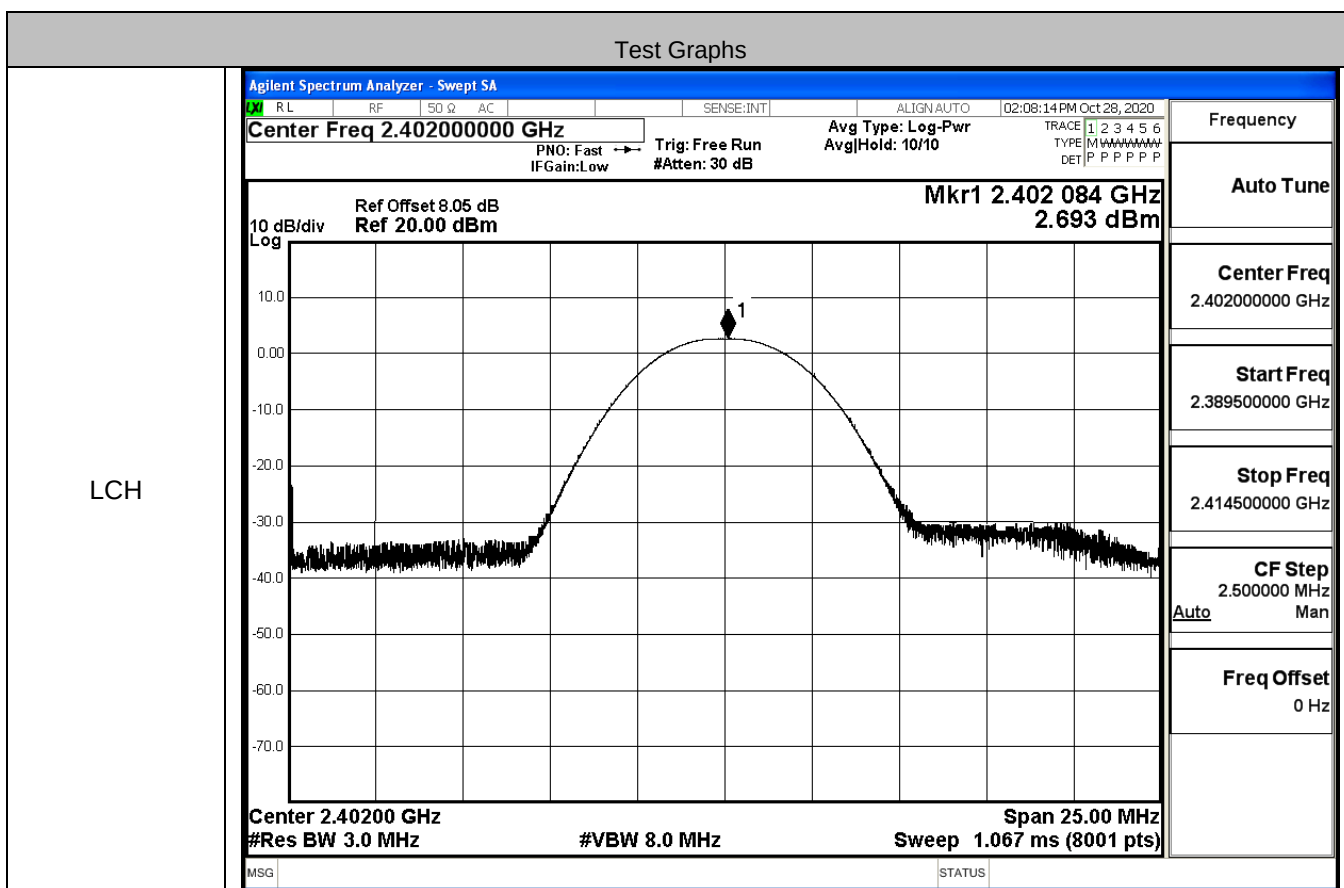
A.1 Duty Cycle

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

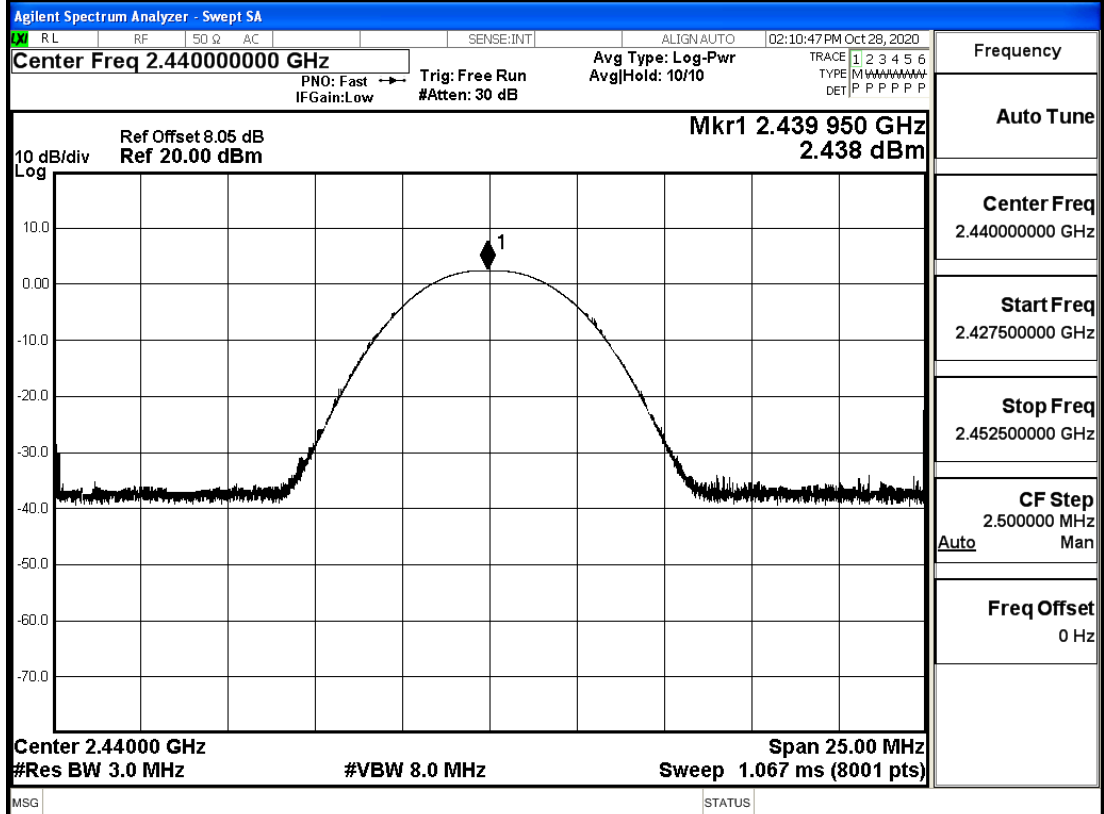


A.2 Maximum Conducted Peak Output Power

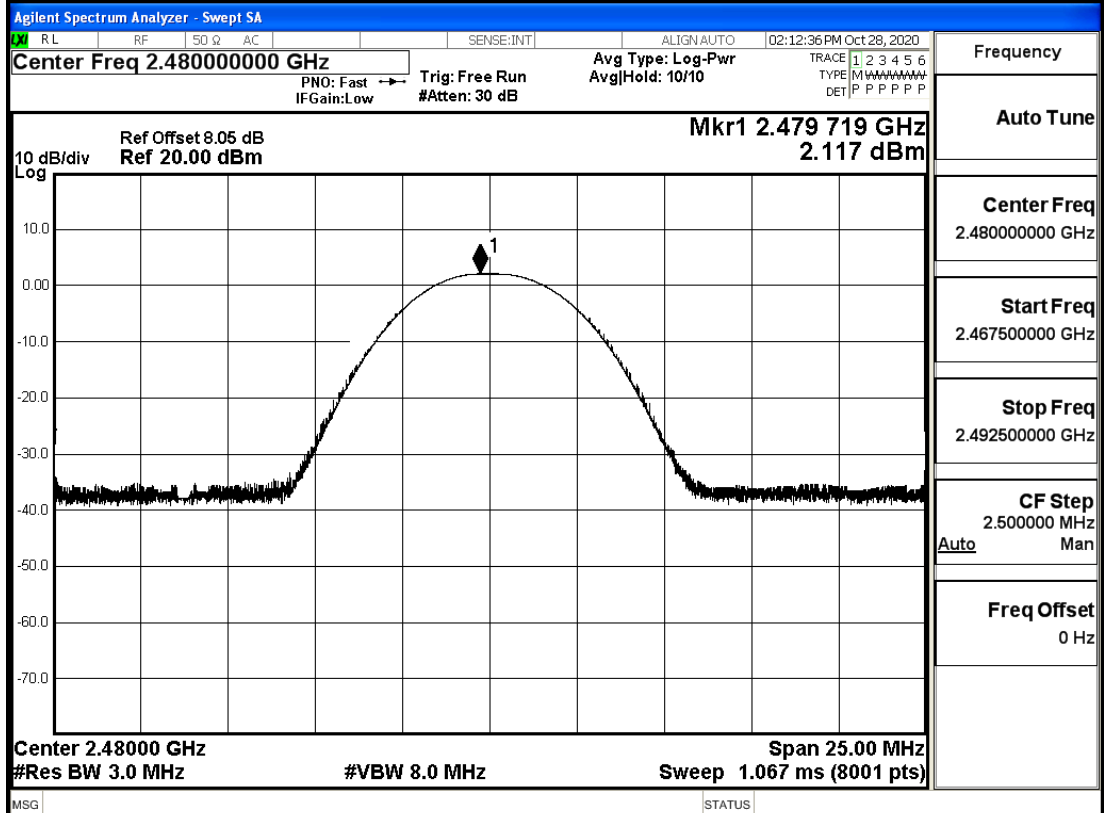
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.693	30	PASS
BT LE	MCH	2.438	30	PASS
BT LE	HCH	2.117	30	PASS



MCH



HCH

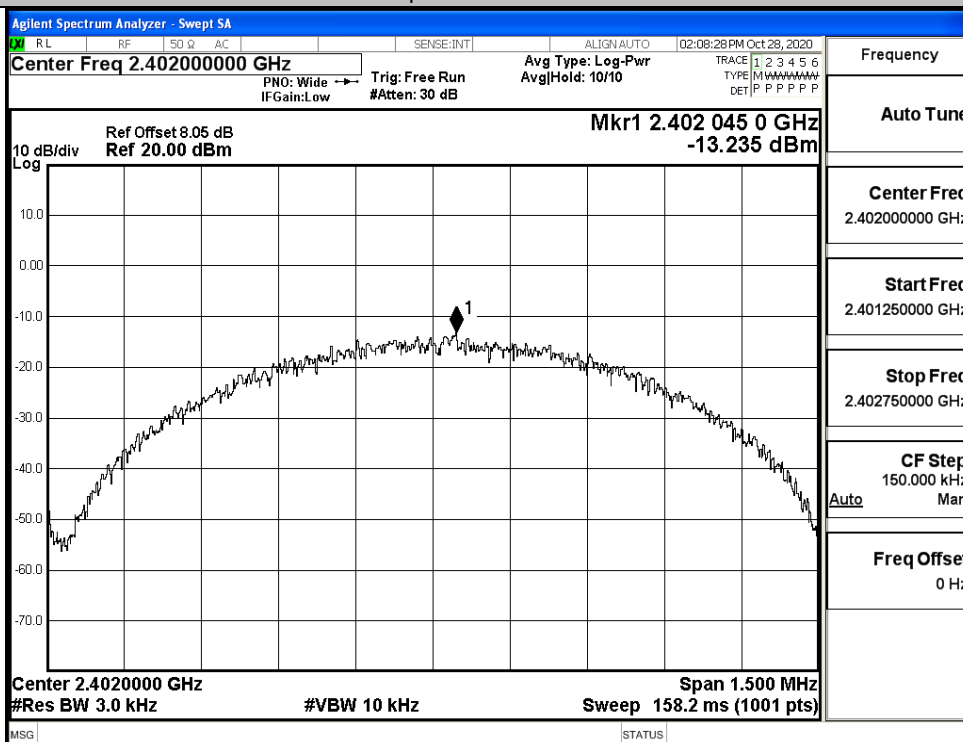


A.3 Maximum Power Spectral Density

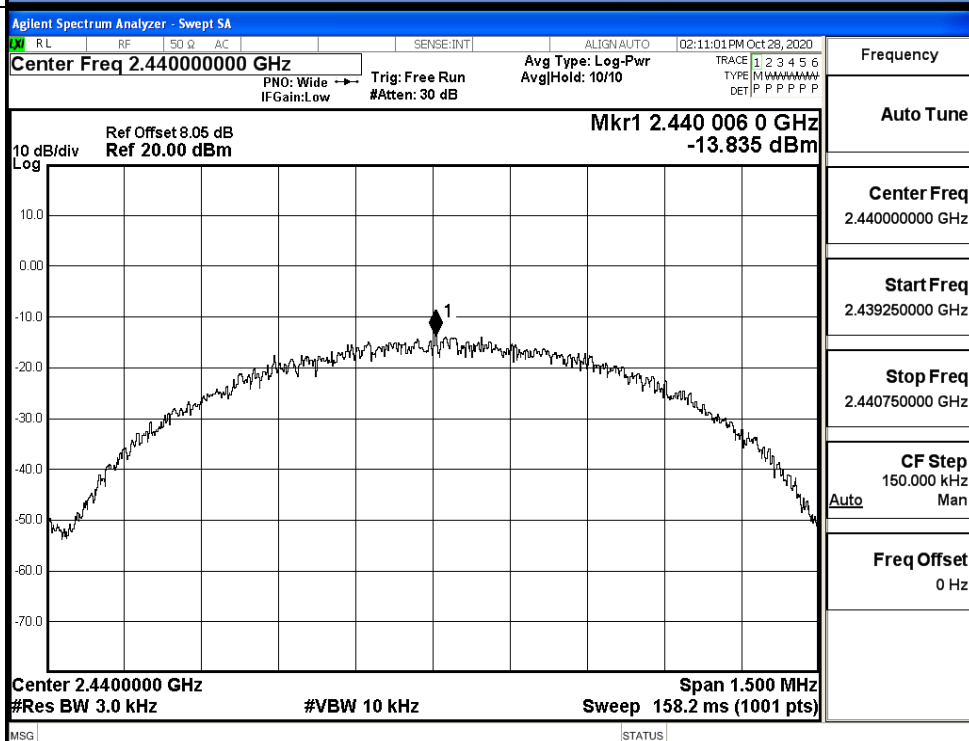
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.235	8	PASS
BT LE	MCH	-13.835	8	PASS
BT LE	HCH	-13.982	8	PASS

Test Graphs

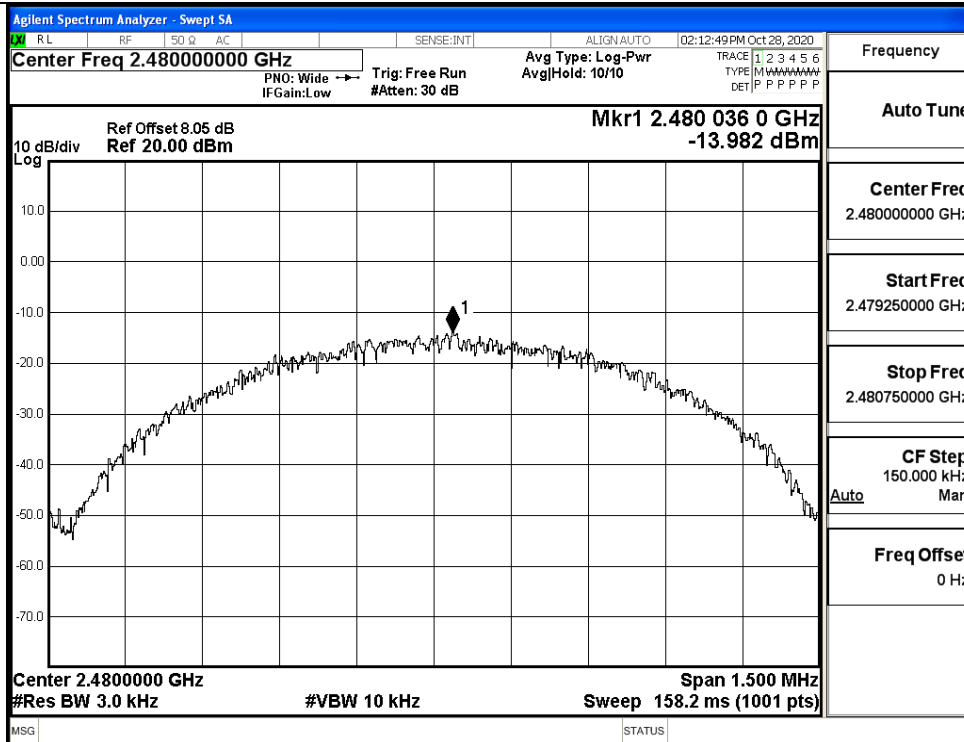
LCH



MCH



HCH

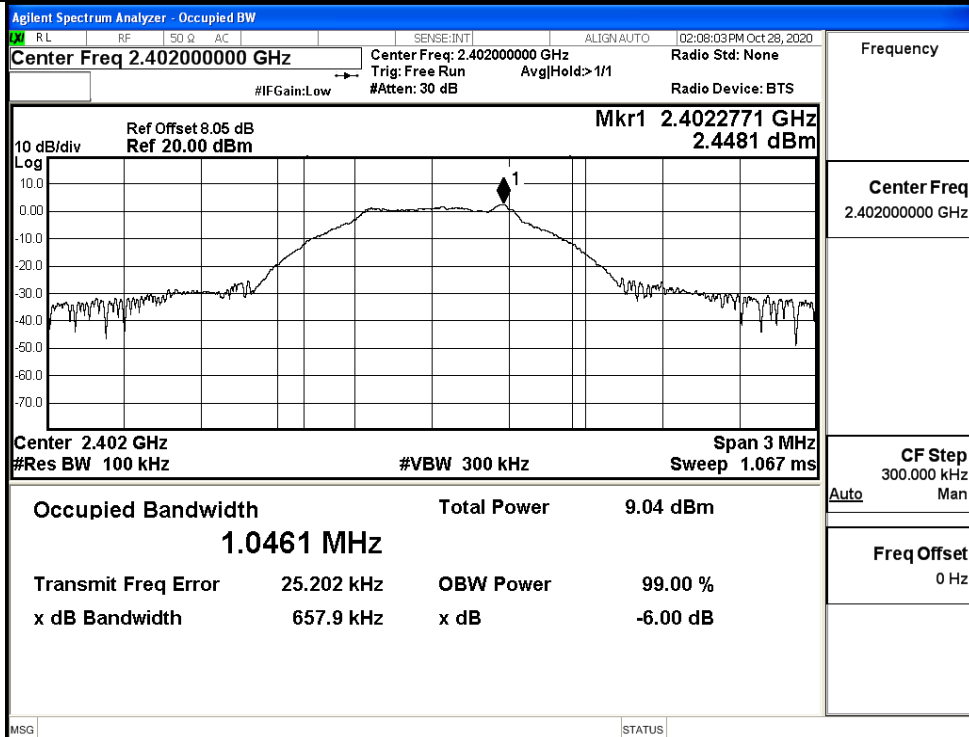


A.4 6dB Bandwidth

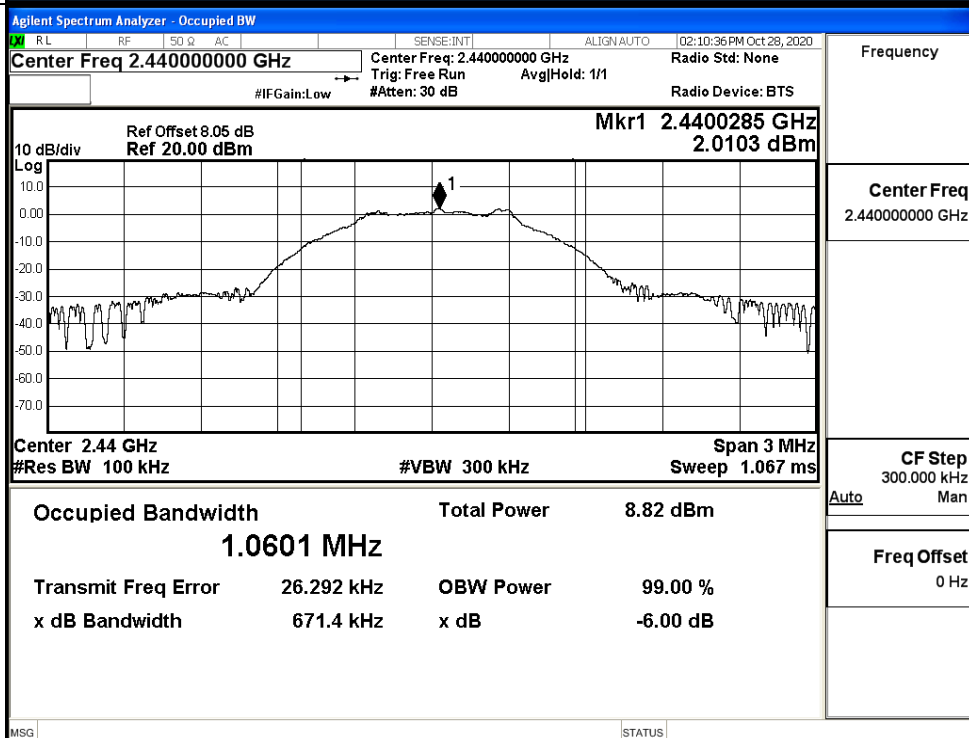
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6579	≥ 0.5	PASS
BT LE	MCH	0.6714	≥ 0.5	PASS
BT LE	HCH	0.6681	≥ 0.5	PASS

Test Graphs

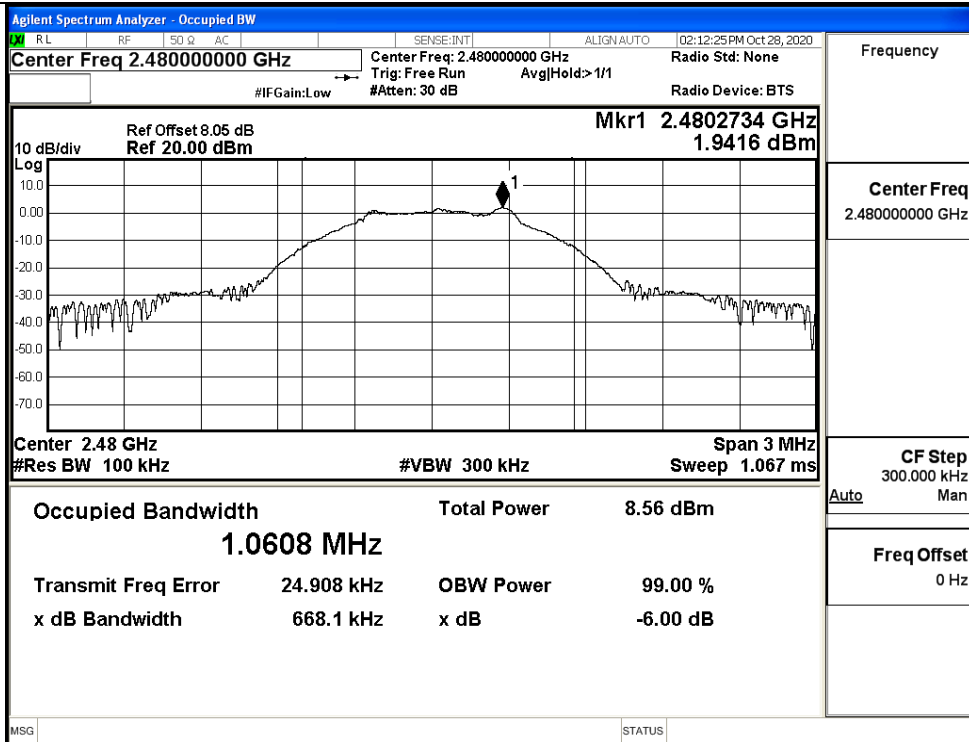
LCH



MCH



HCH

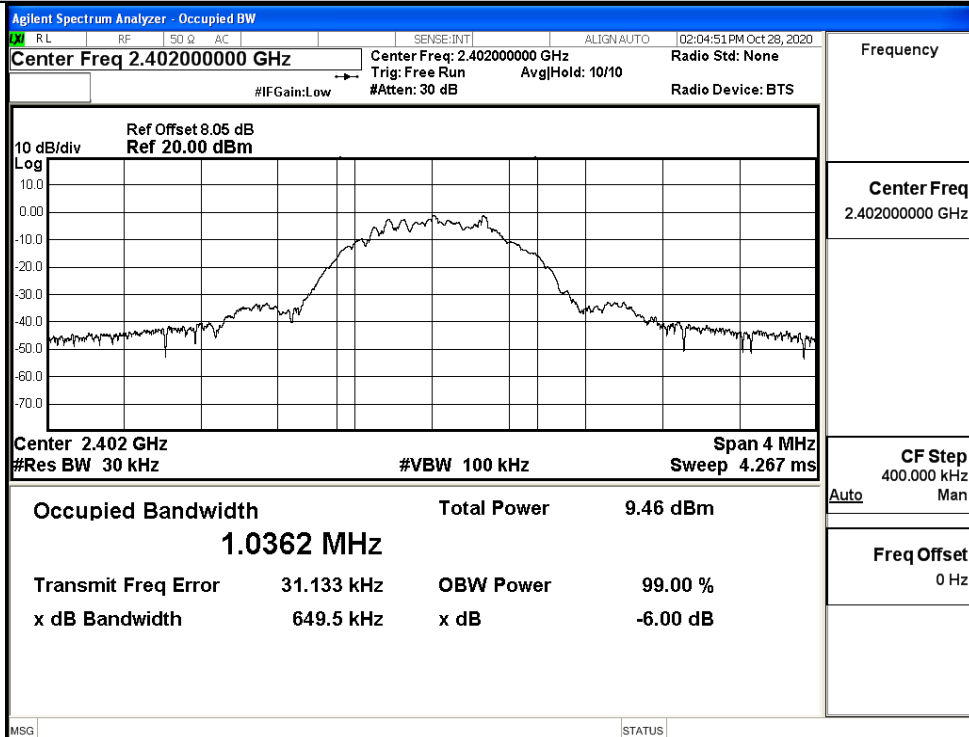


A.5 Occupied Bandwidth

Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0362	≥ 0.5	PASS
BT LE	MCH	1.0479	≥ 0.5	PASS
BT LE	HCH	1.0454	≥ 0.5	PASS

Test Graphs

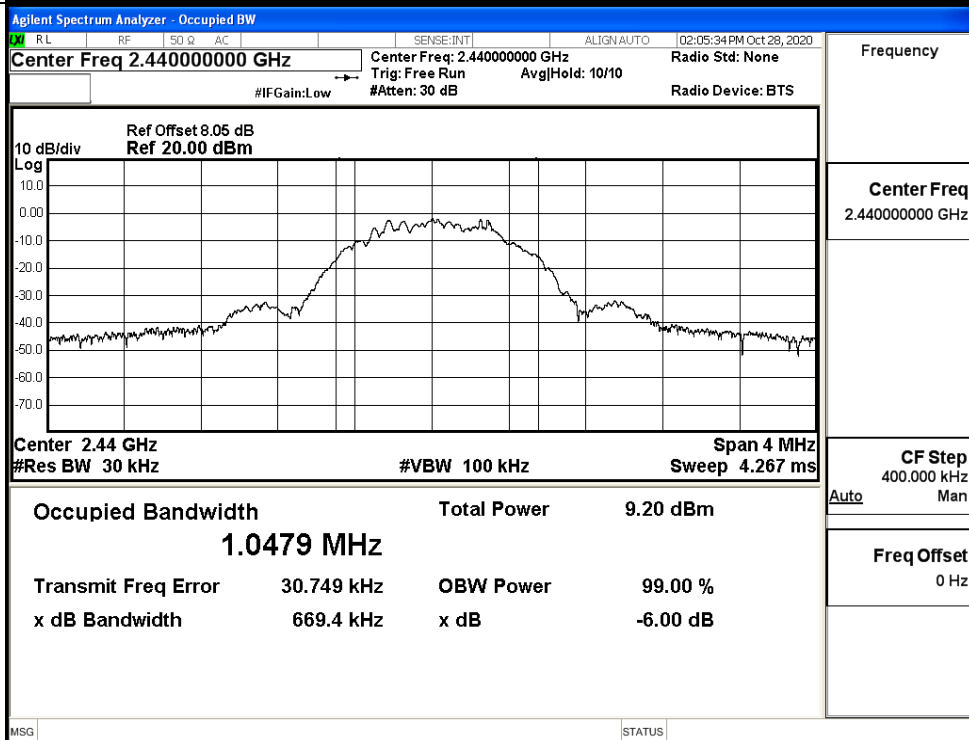
LCH



Frequency

Center Freq
2.402000000 GHzCF Step
400.000 kHz
ManFreq Offset
0 Hz

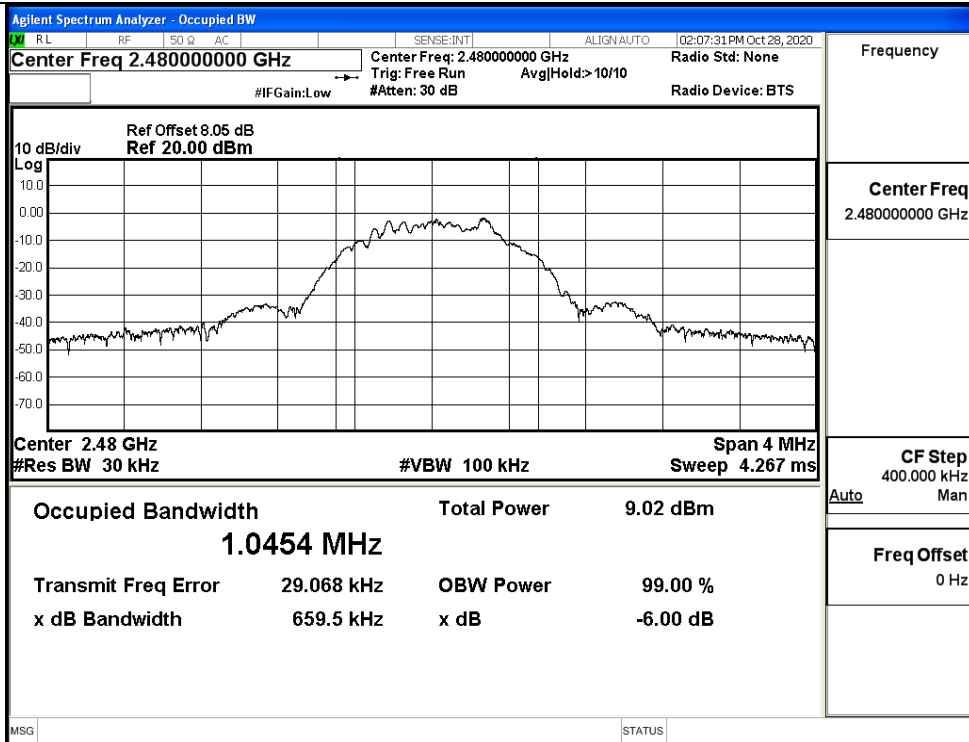
MCH



Frequency

Center Freq
2.440000000 GHzCF Step
400.000 kHz
ManFreq Offset
0 Hz

HCH

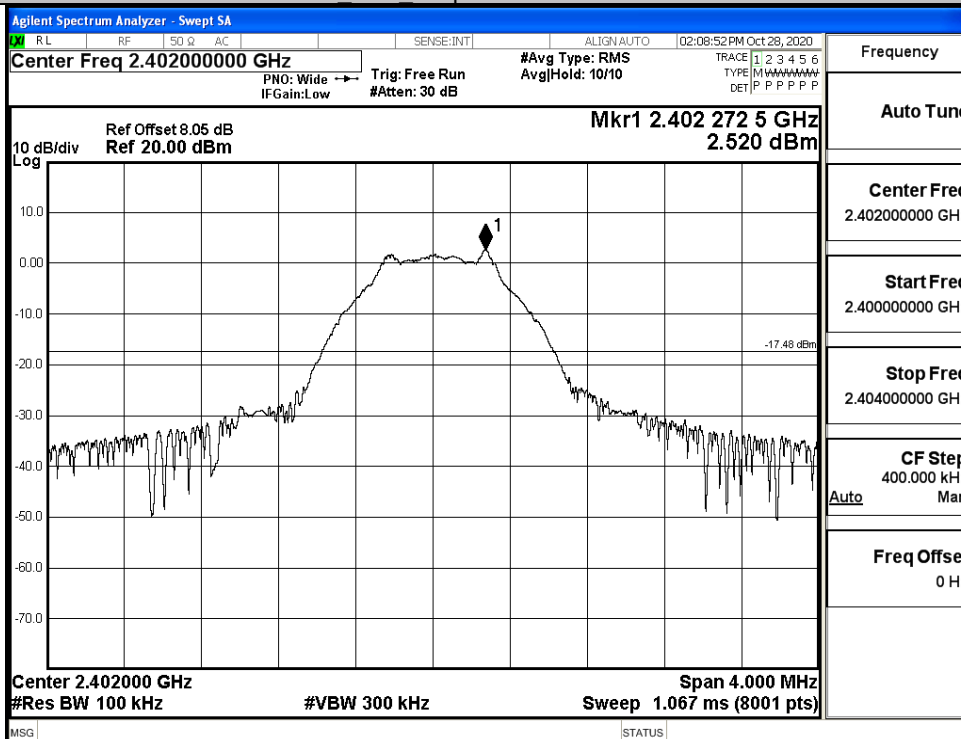


A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.52	-27.507	-17.480	PASS
BT LE	MCH	2.183	-26.342	-17.817	PASS
BT LE	HCH	1.908	-34.940	-18.092	PASS

BT LE LCH Graphs

Pref/BT LE/LCH



Frequency

Auto Tune

Center Freq
2.402000000 GHz

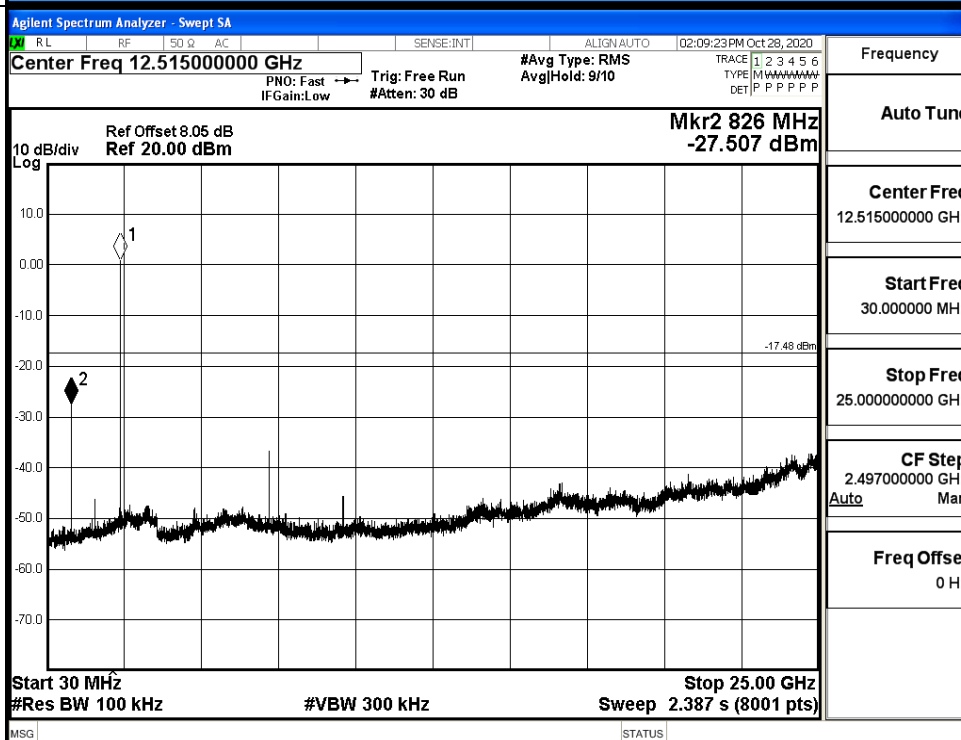
Start Freq
2.400000000 GHz

Stop Freq
2.404000000 GHz

CF Step
400.000 kHz
Auto Man

Freq Offset
0 Hz

Puw/BT LE/LCH



Frequency

Auto Tune

Center Freq
12.515000000 GHz

Start Freq
30.000000 MHz

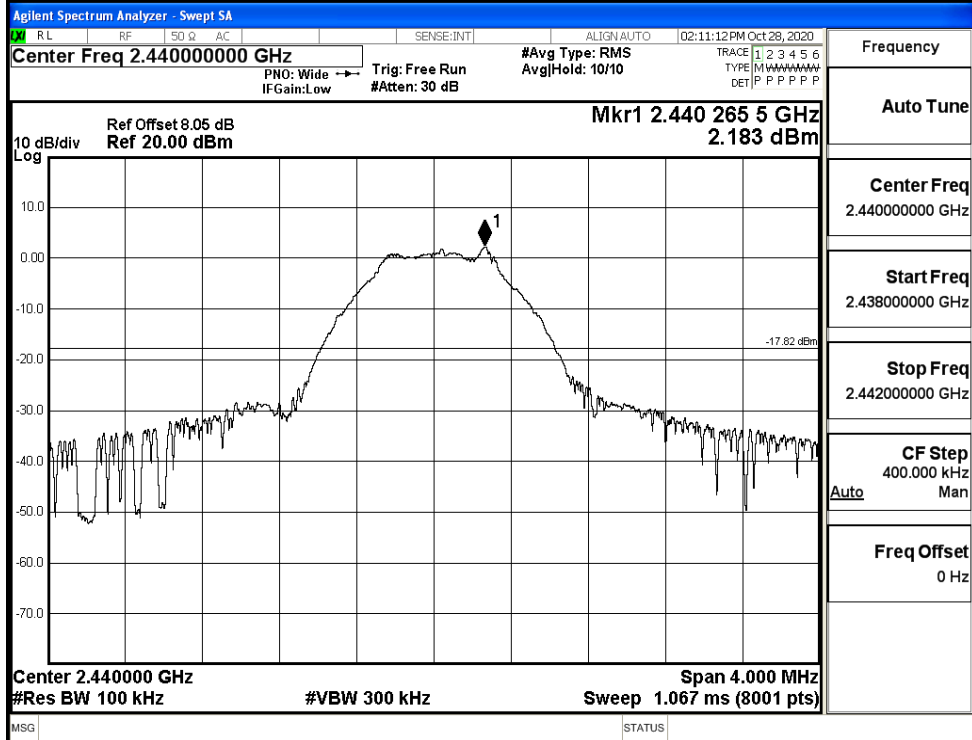
Stop Freq
25.000000000 GHz

CF Step
2.497000000 GHz
Auto Man

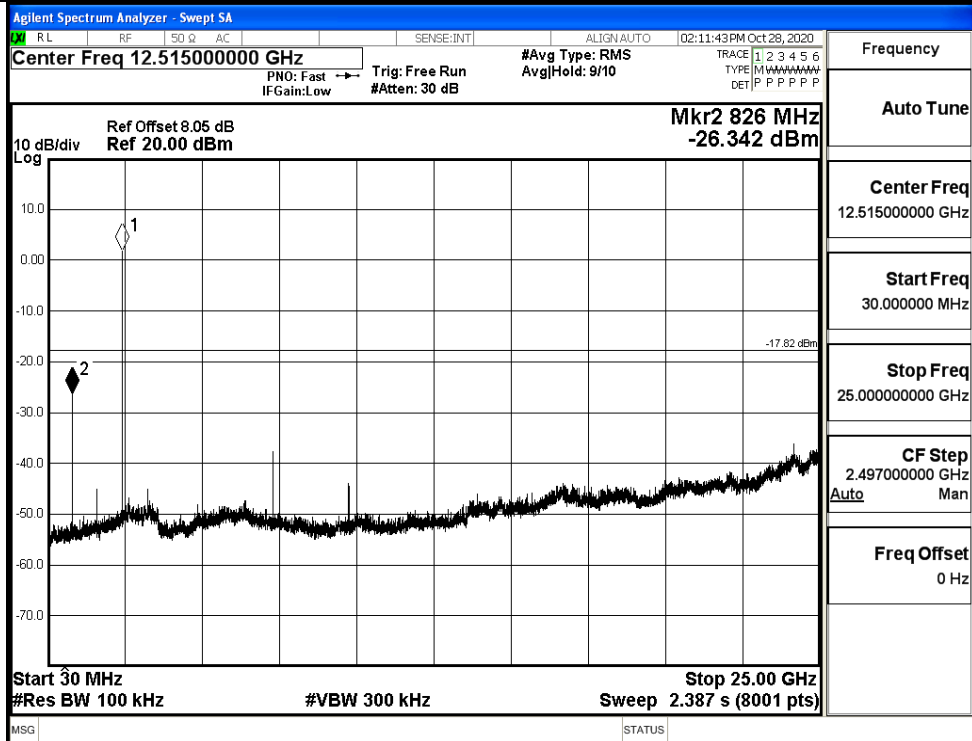
Freq Offset
0 Hz

BT LE MCH Graphs

Pref/BT LE/MCH

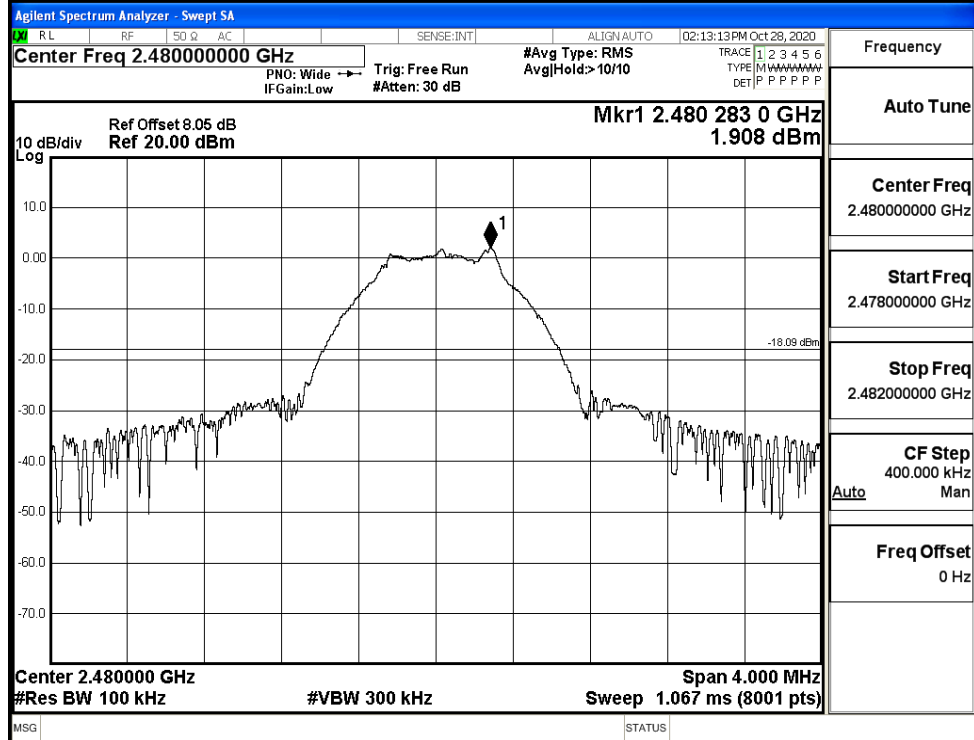


Puw/BT LE/MCH

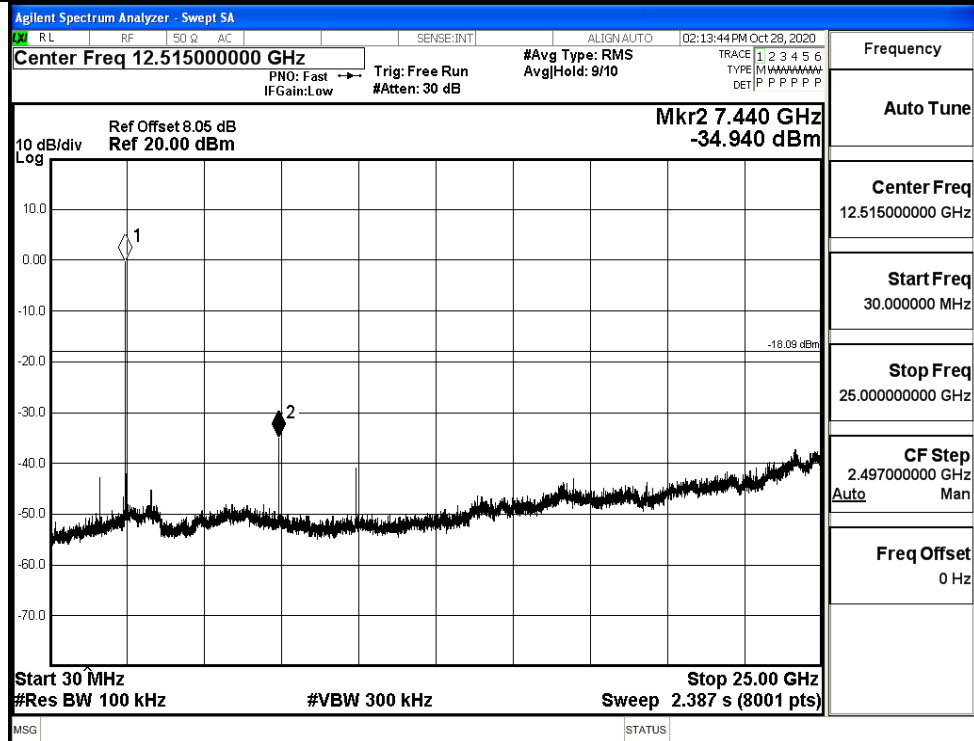


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

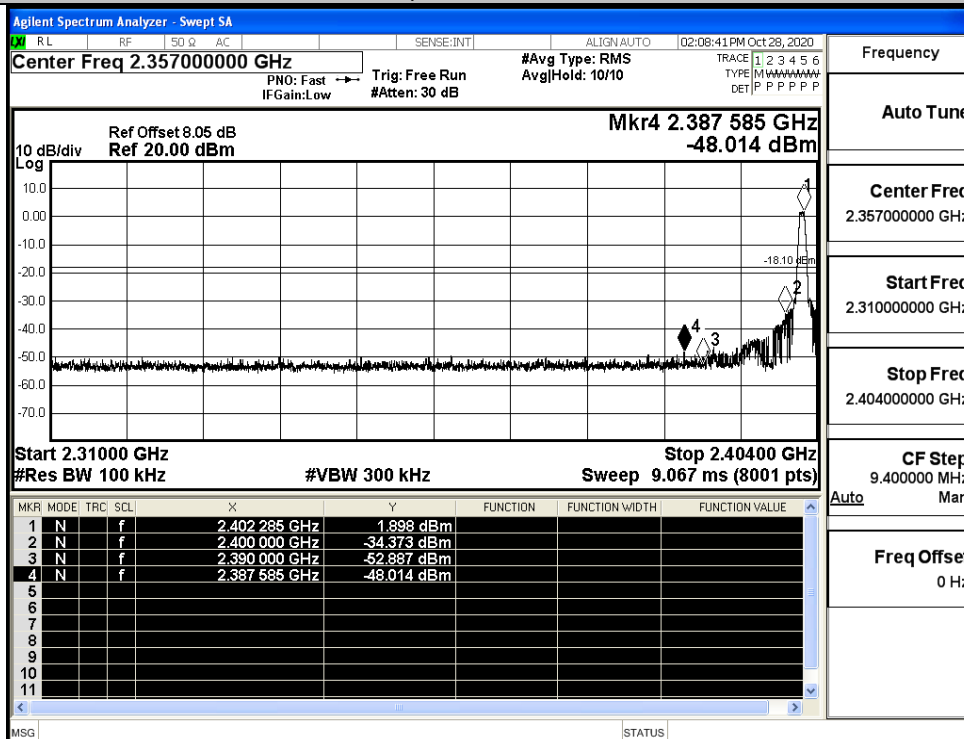


A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.898	-48.014	-18.1	PASS
BT LE	HCH	2.010	-40.772	-17.99	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

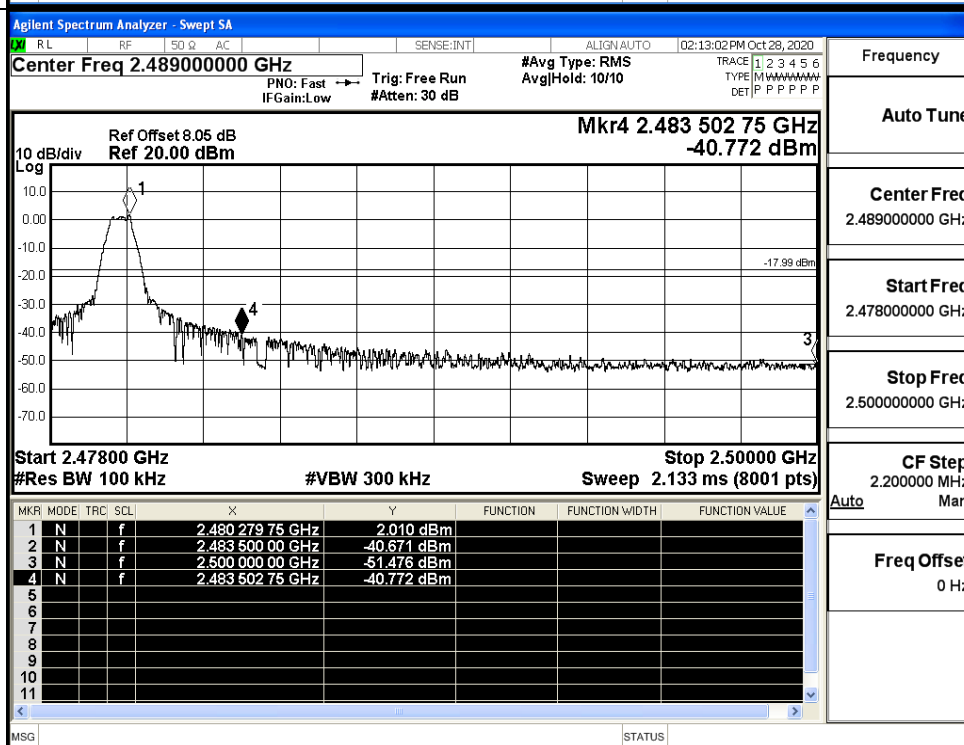
9.400000 MHz

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

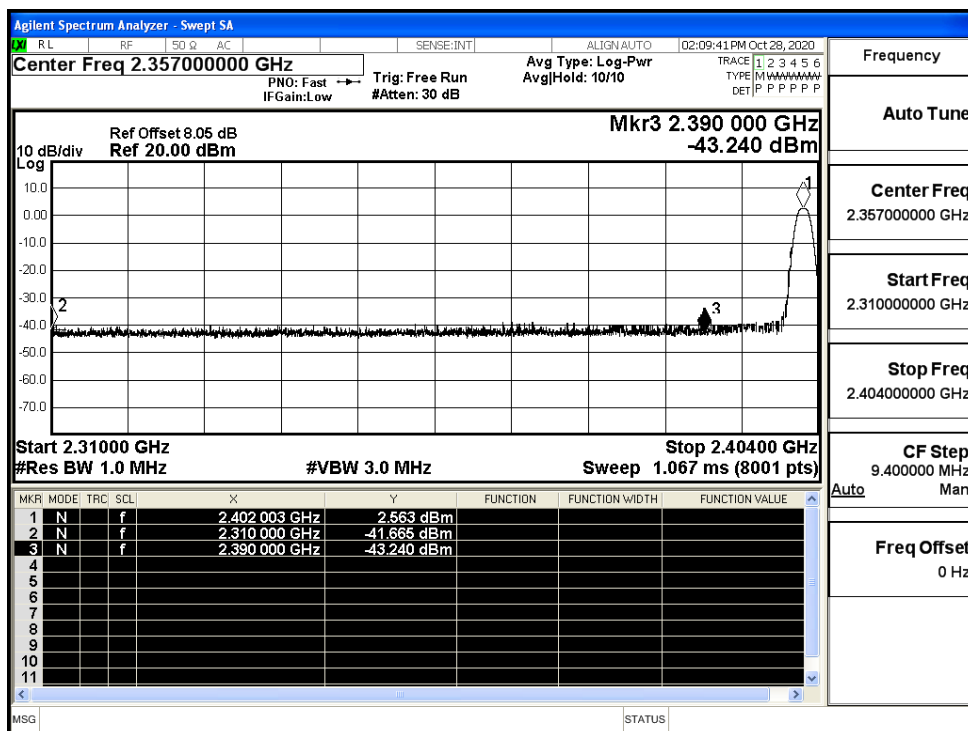
Freq Offset

0 Hz

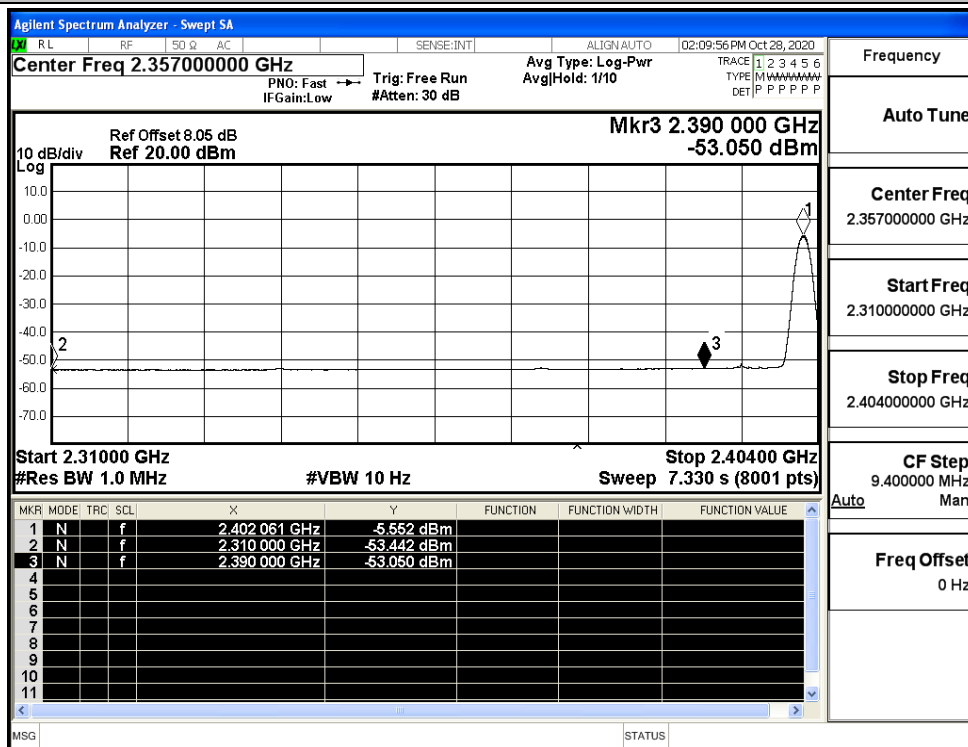
A.8 Restrict-band band-edge measurements

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	-41.67	2.0	0	55.59	PEAK	74	PASS
		Ant1	2310.0	-53.44	2.0	0	43.82	AV	54	PASS
		Ant1	2390.0	-43.24	2.0	0	54.02	PEAK	74	PASS
		Ant1	2390.0	-53.05	2.0	0	44.21	AV	54	PASS
	2480	Ant1	2483.5	-39.21	2.0	0	58.06	PEAK	74	PASS
		Ant1	2483.5	-52.28	2.0	0	44.98	AV	54	PASS
		Ant1	2500.0	-42.17	2.0	0	55.09	PEAK	74	PASS
		Ant1	2500.0	-52.46	2.0	0	44.80	AV	54	PASS

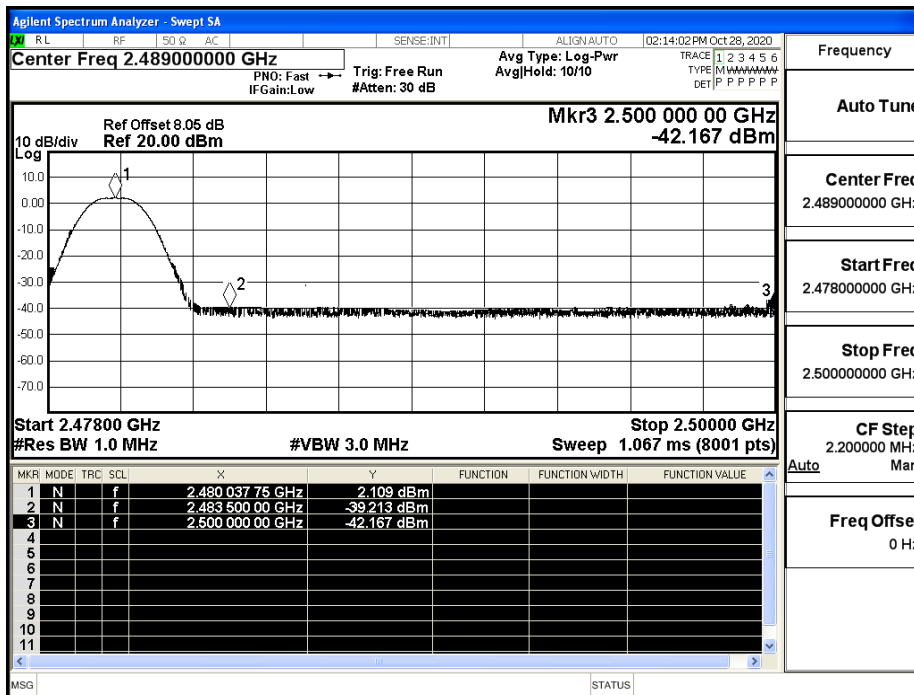
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

