

Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: SELPIC Handy Printer

Trade Mark: SELPIC

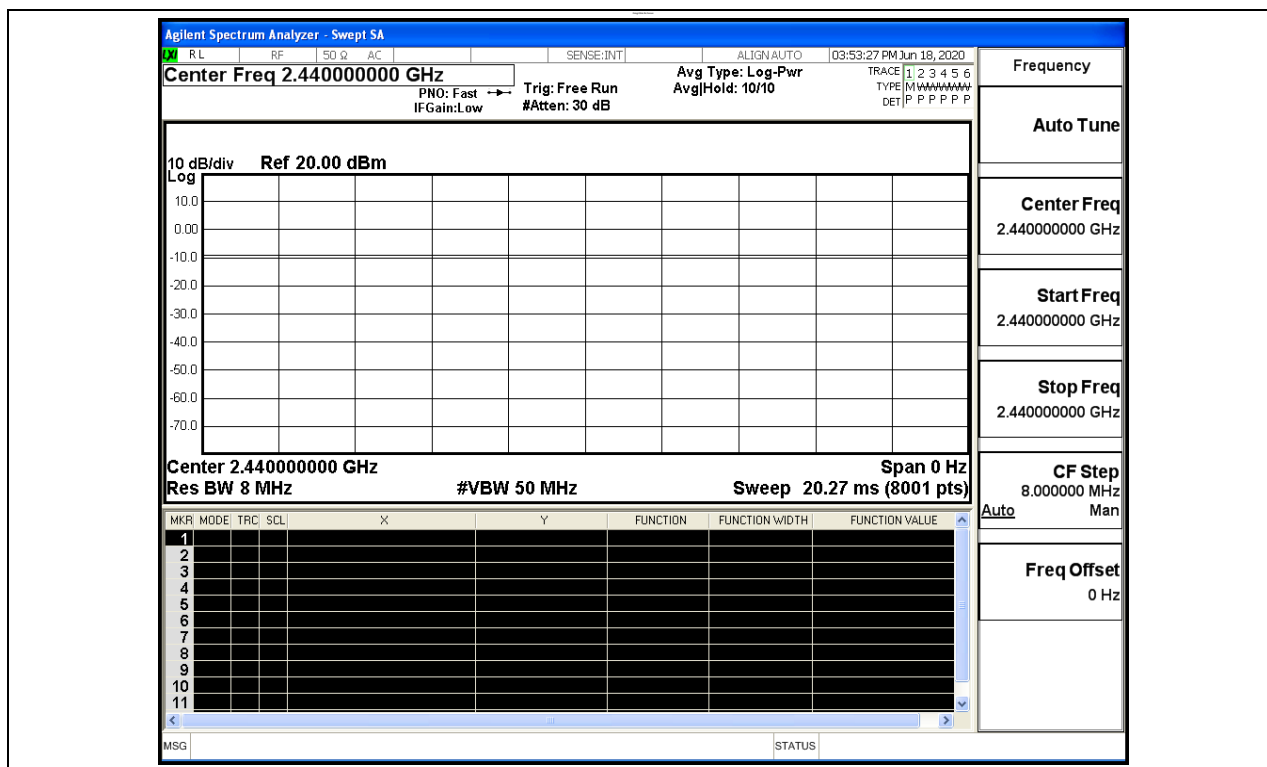
Test Model (HVIN): P1

Environmental Conditions

Temperature:	23.2 ° C
Relative Humidity:	54.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Qu Xin
Supervised by:	Li Huan

B.1 Duty Cycle

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

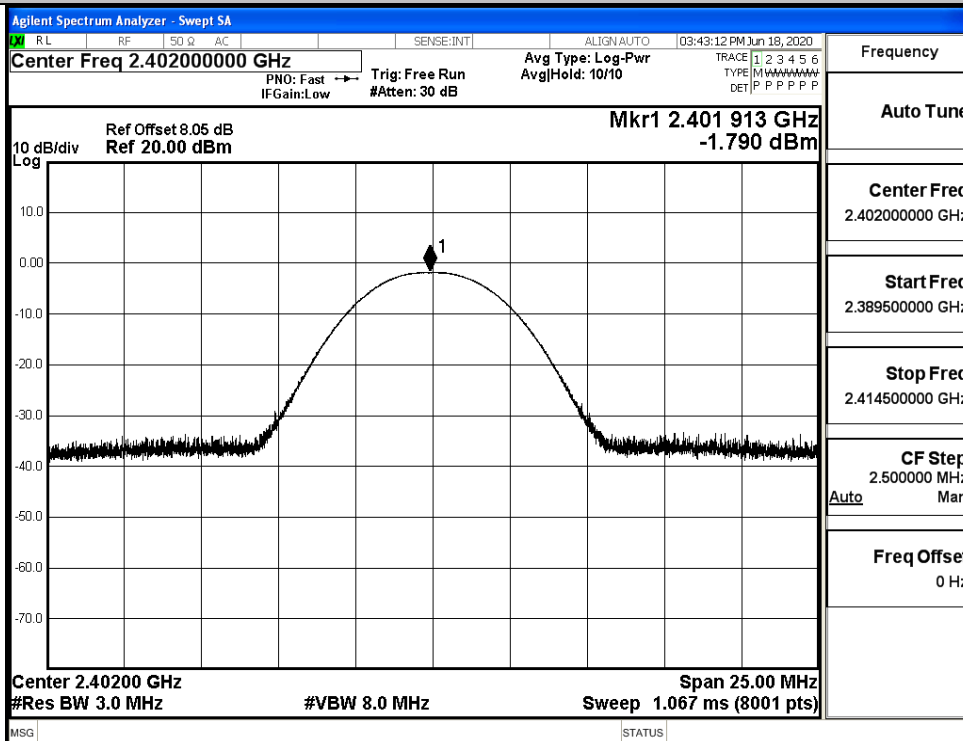


B.2 Maximum Conducted Peak Output Power

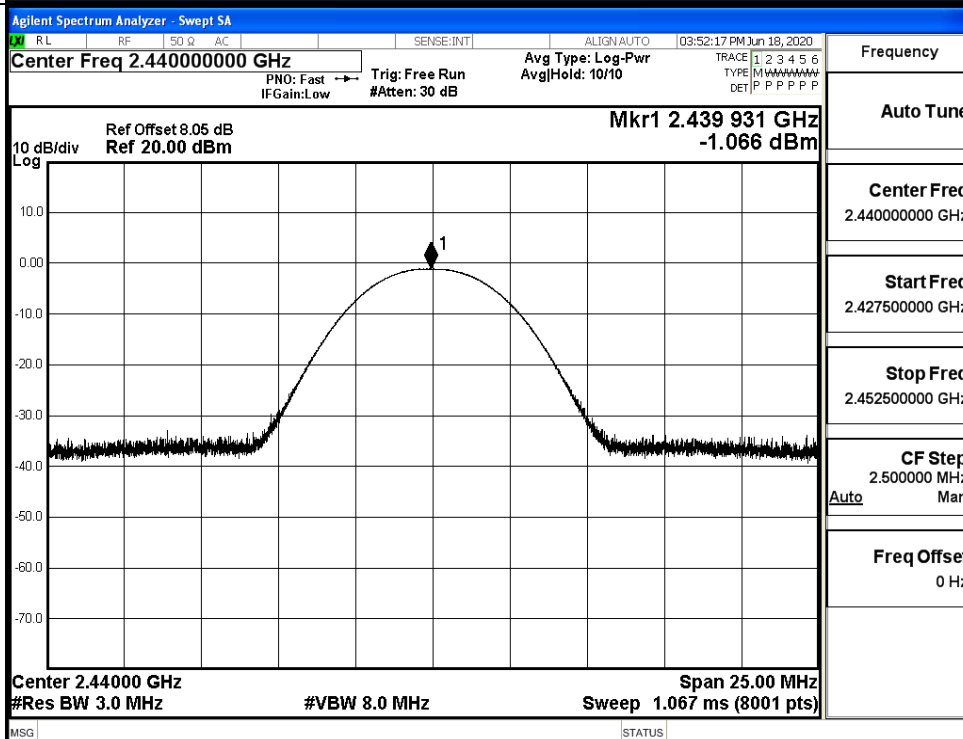
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.790	30	PASS
BT LE	MCH	-1.066	30	PASS
BT LE	HCH	-0.943	30	PASS

Test Graphs

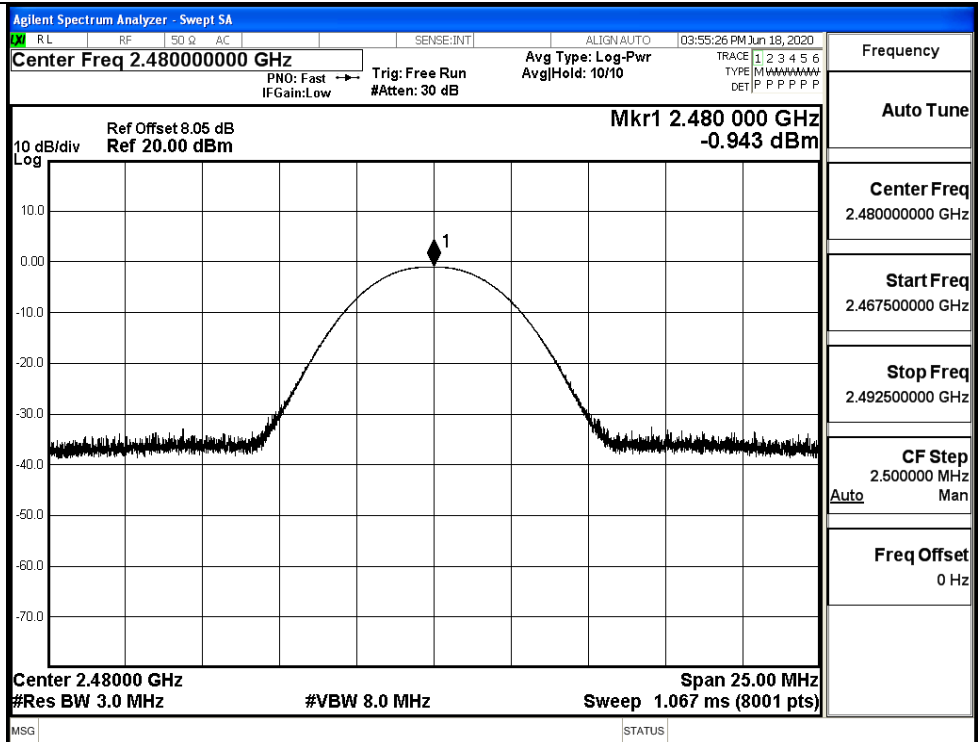
LCH



MCH



HCH

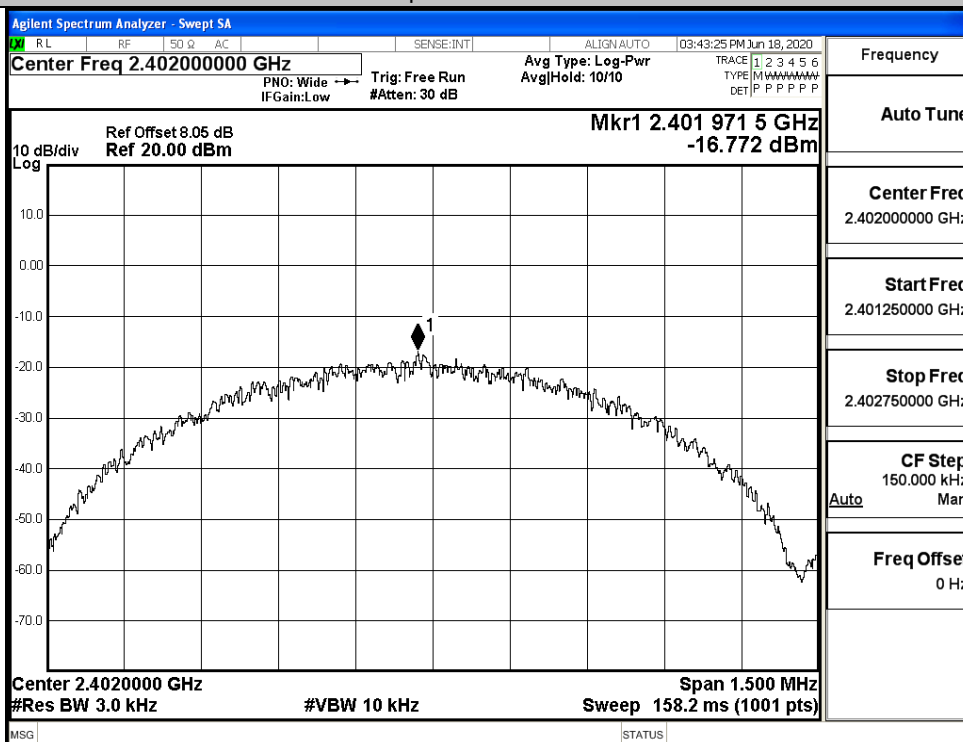


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.772	8	PASS
BT LE	MCH	-16.254	8	PASS
BT LE	HCH	-16.276	8	PASS

Test Graphs

LCH

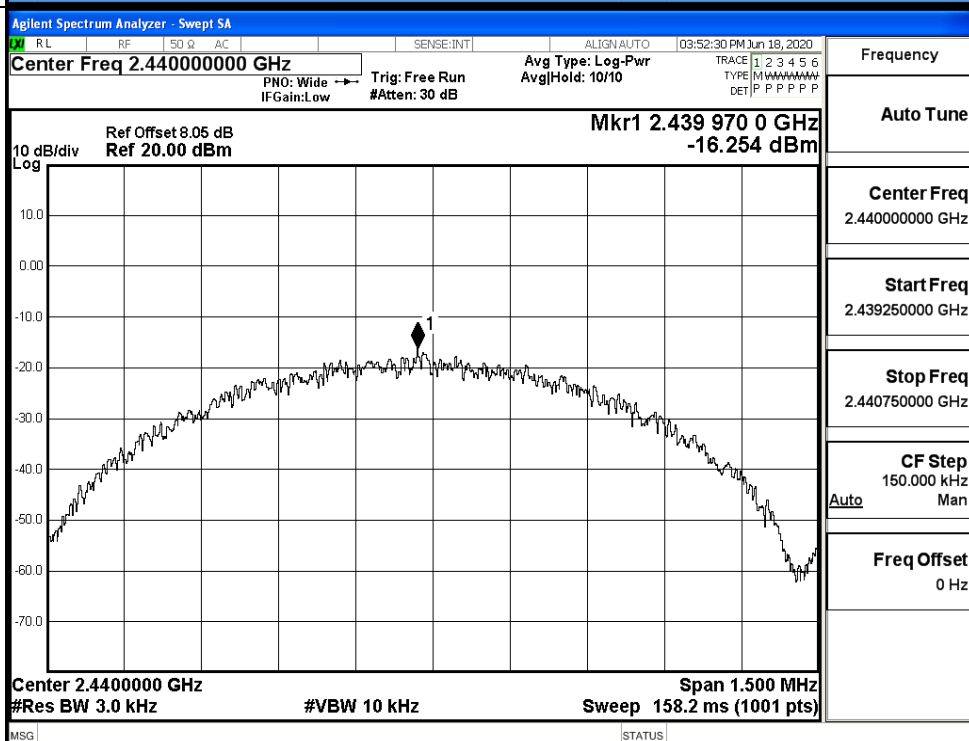


Frequency

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

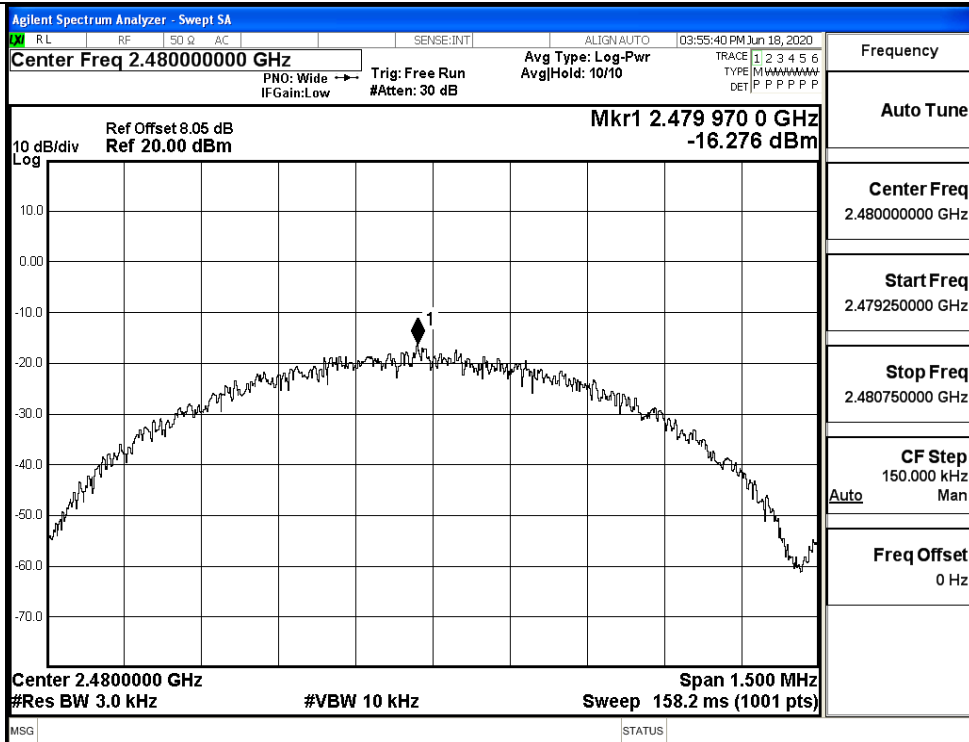


Frequency

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

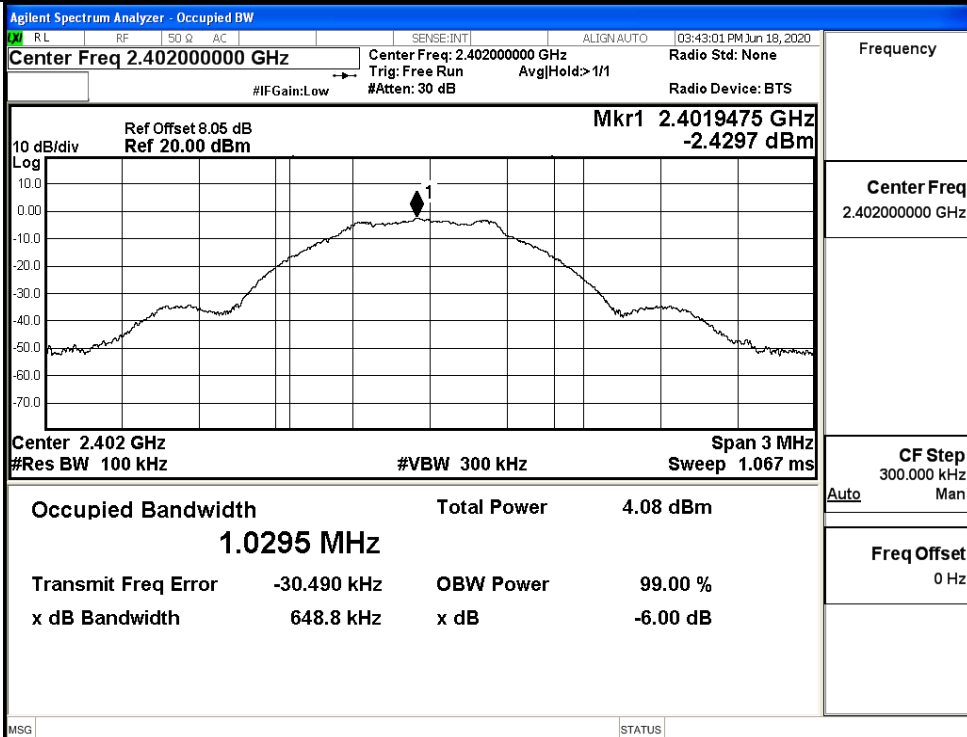


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6488	≥ 0.5	PASS
BT LE	MCH	0.6571	≥ 0.5	PASS
BT LE	HCH	0.6489	≥ 0.5	PASS

Test Graphs

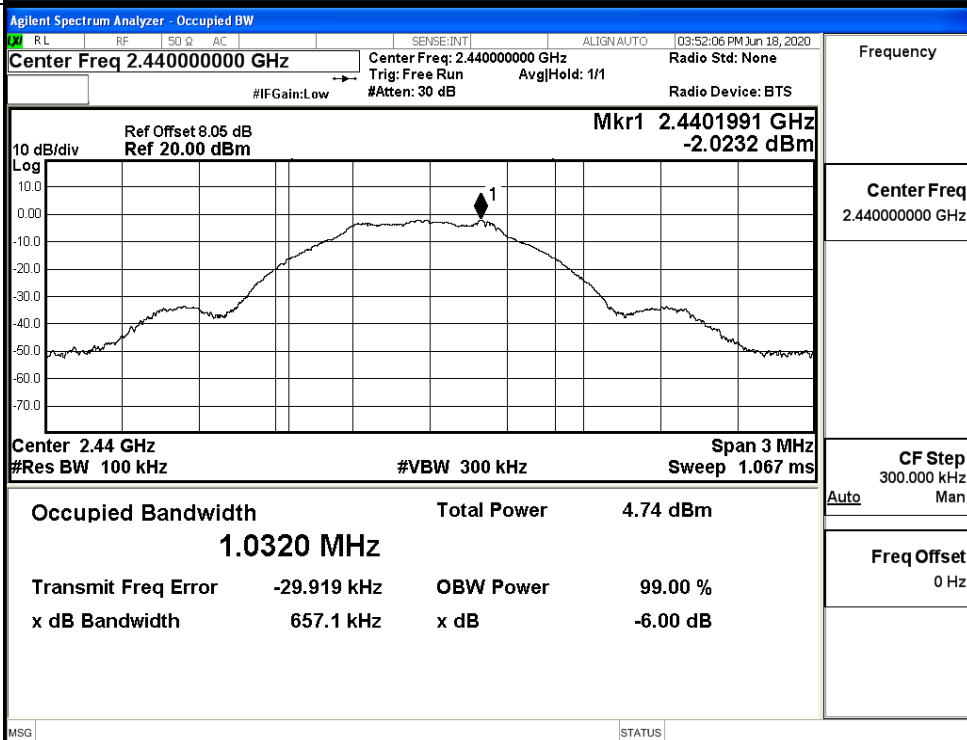
LCH



Frequency

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

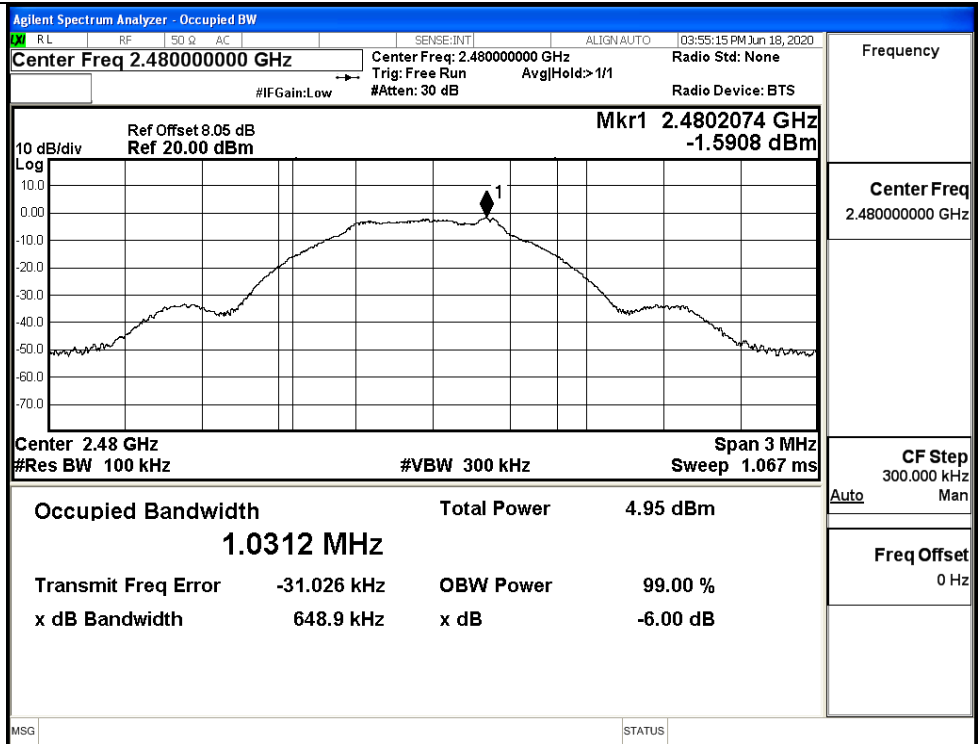
MCH



Frequency

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

HCH

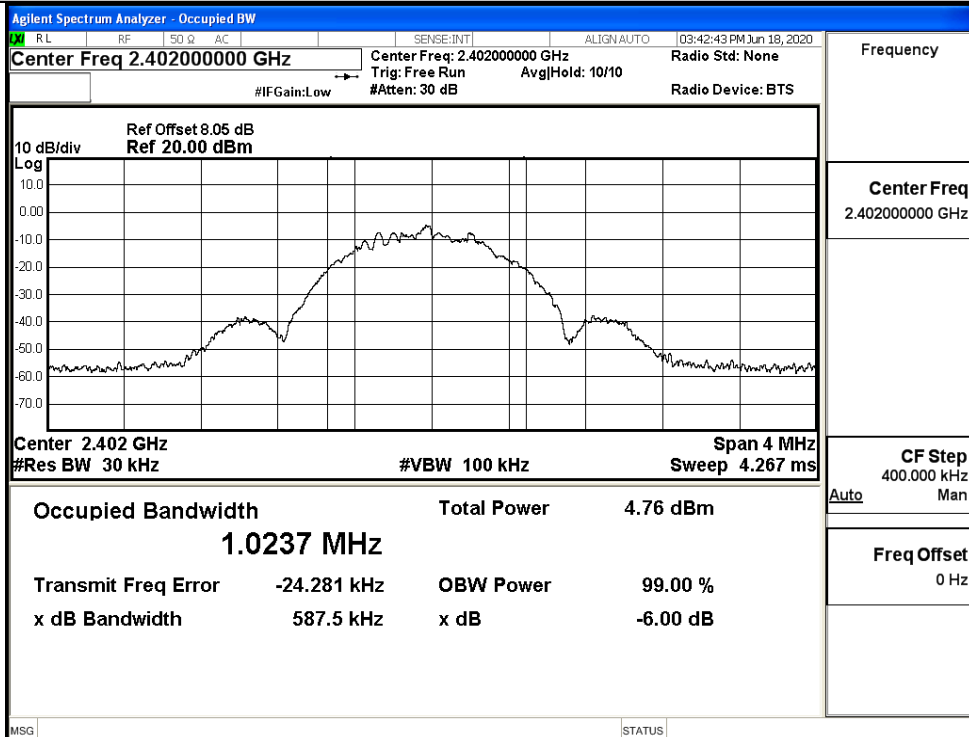


B.5 Occupied Bandwidth

Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.0237	≥ 0.5	PASS
BT LE	MCH	1.0259	≥ 0.5	PASS
BT LE	HCH	1.0243	≥ 0.5	PASS

Test Graphs

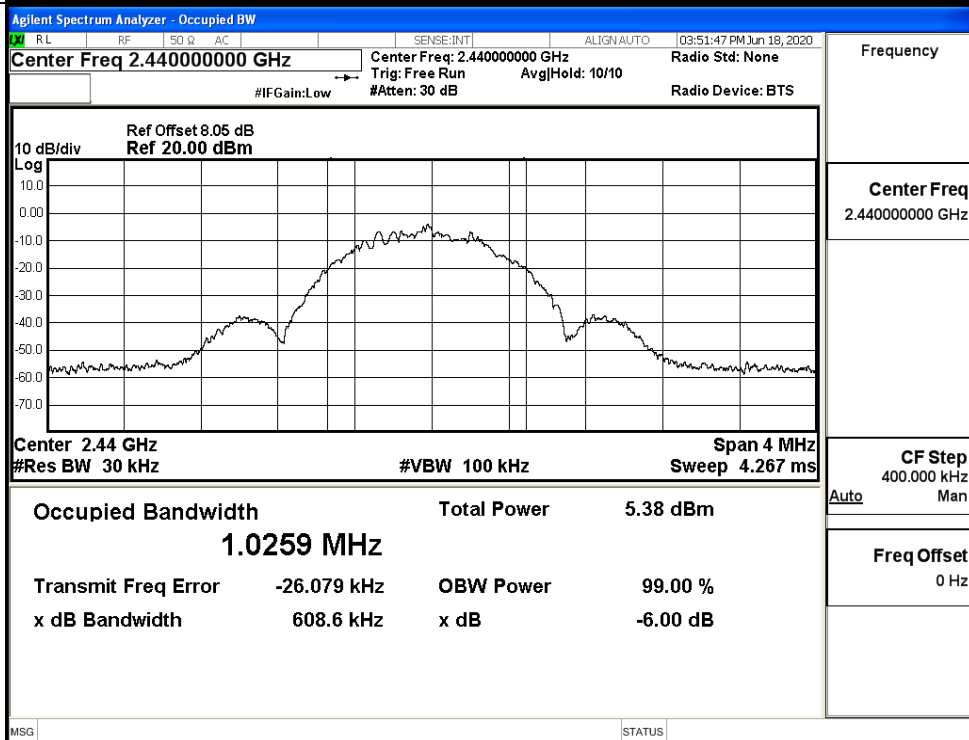
LCH



Frequency

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

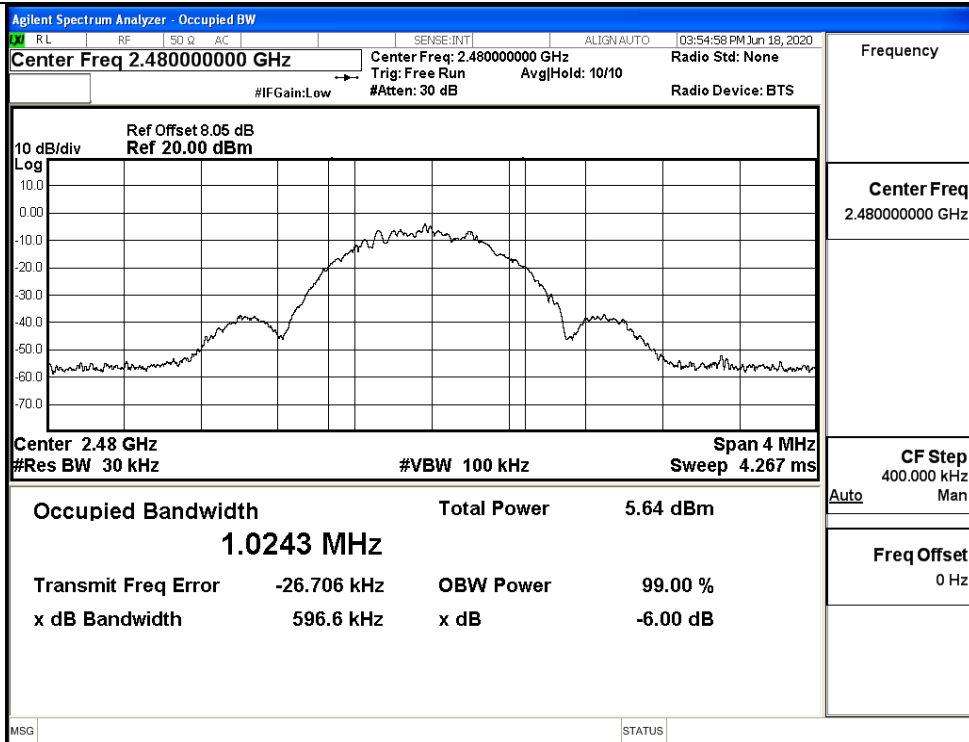
MCH



Frequency

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

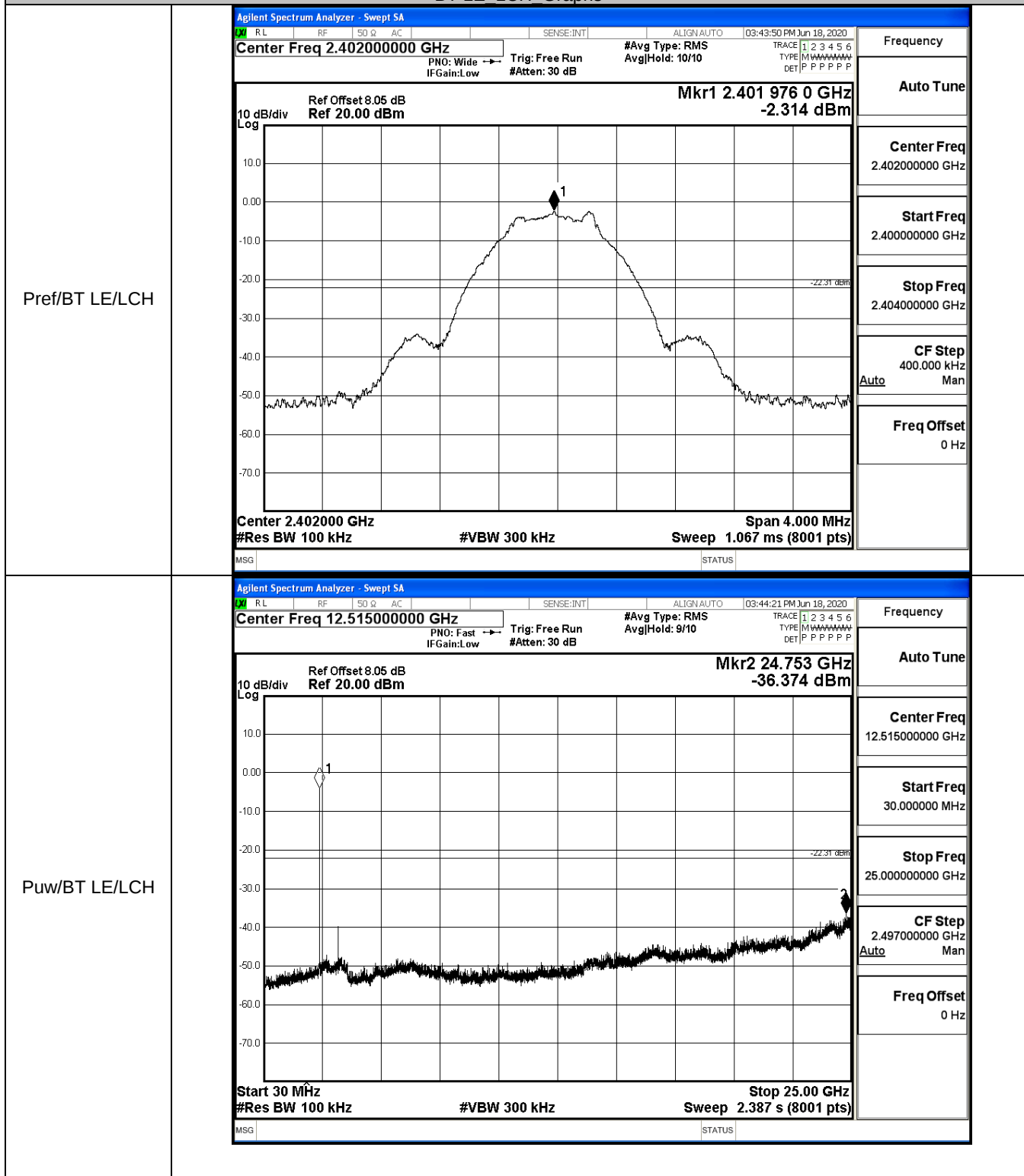
HCH



B.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.314	-36.374	-22.314	PASS
BT LE	MCH	-1.674	-37.103	-21.674	PASS
BT LE	HCH	-1.523	-36.110	-21.523	PASS

BT LE LCH Graphs



Agilent Spectrum Analyzer - Swept SA

Center Freq 12.515000000 GHz

Ref Offset 8.05 dB

Ref 20.00 dBm

Mkr2 24.753 GHz

-36.374 dBm

10 dB/div

Log

Start 30 MHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 25.00 GHz

Sweep 2.387 s (8001 pts)

Frequency

Auto Tune

Center Freq 12.515000000 GHz

Start Freq 30.000000 MHz

Stop Freq 25.000000000 GHz

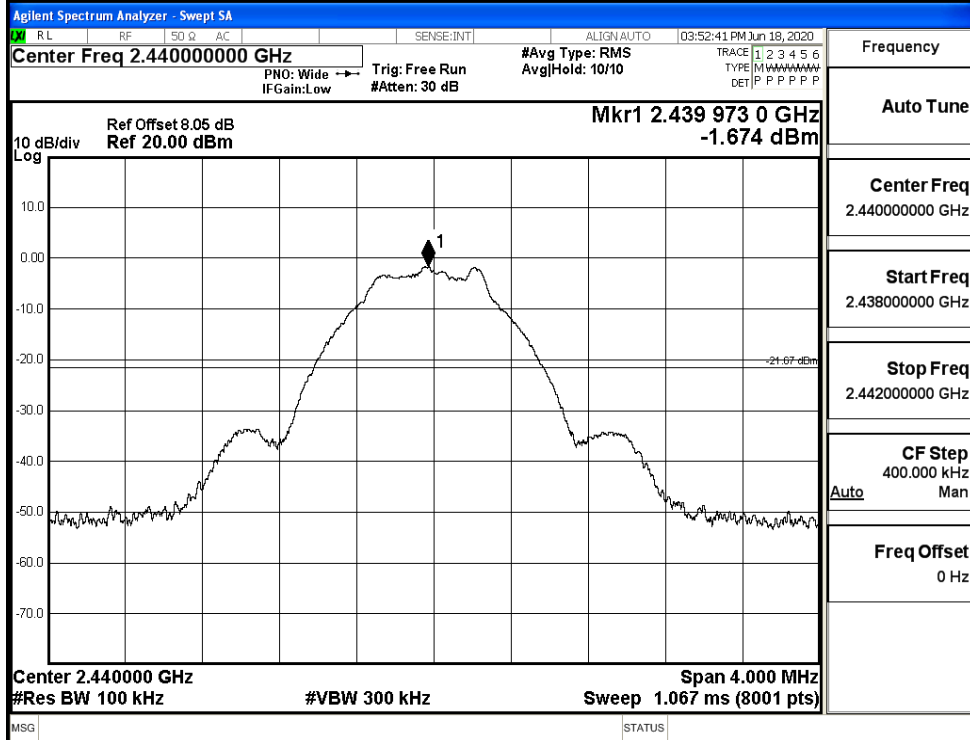
CF Step 2.497000000 GHz

Auto

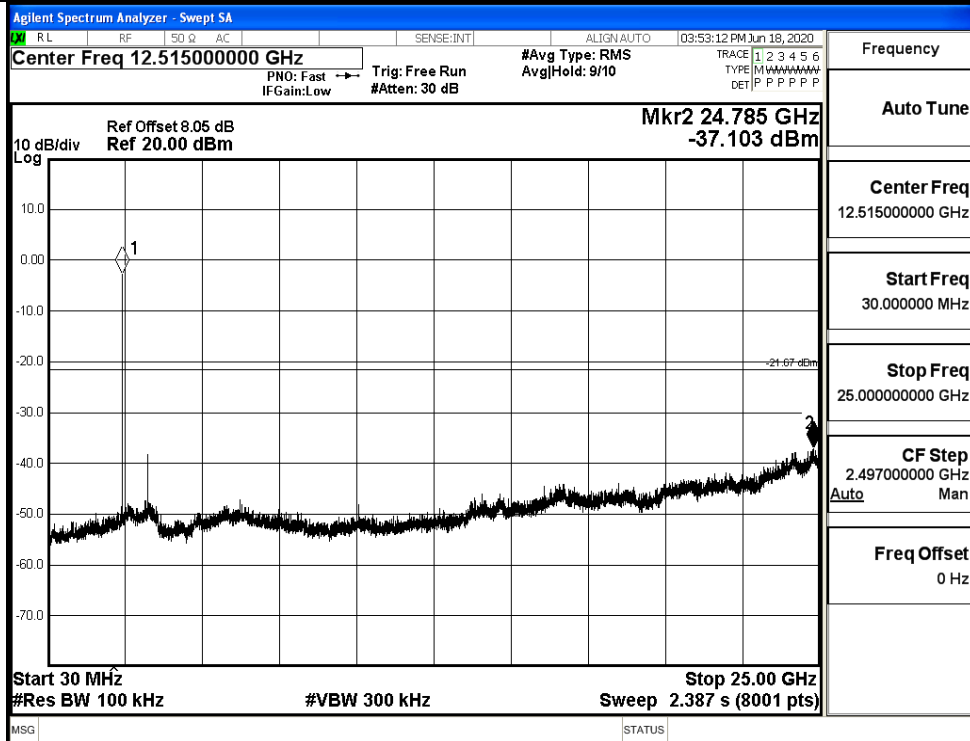
Freq Offset 0 Hz

BT LE MCH Graphs

Pref/BT LE/MCH

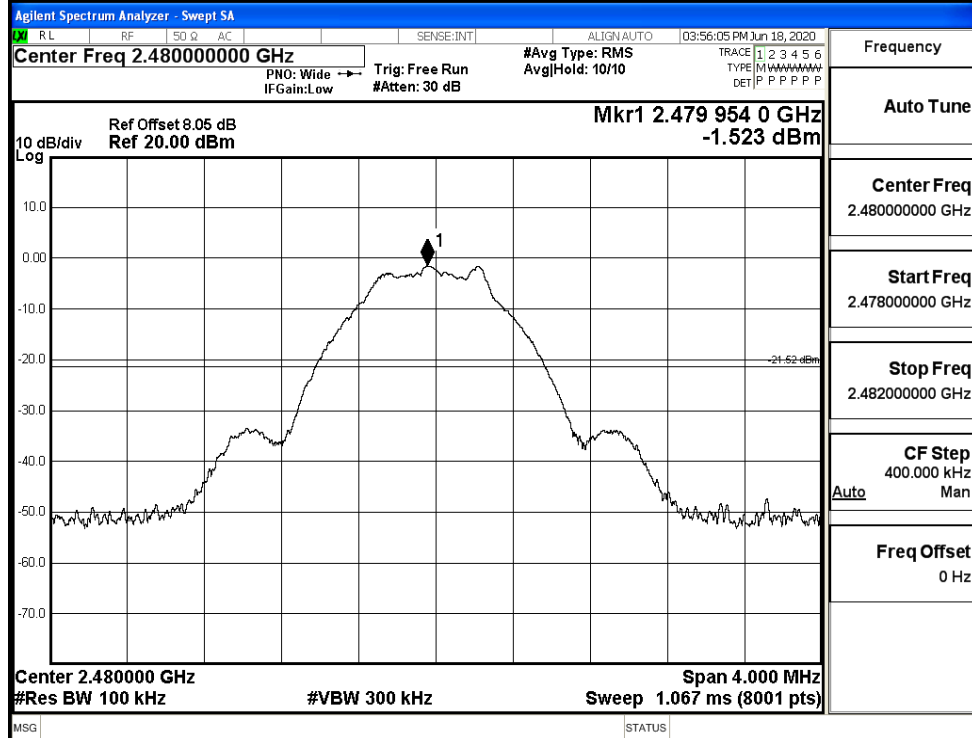


Puw/BT LE/MCH

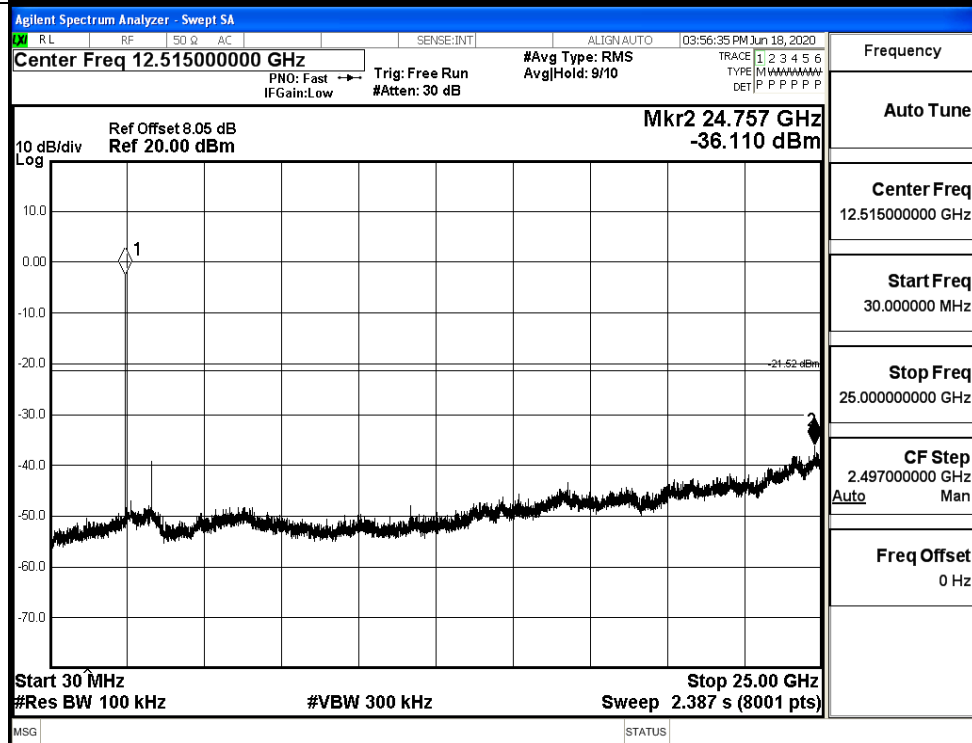


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

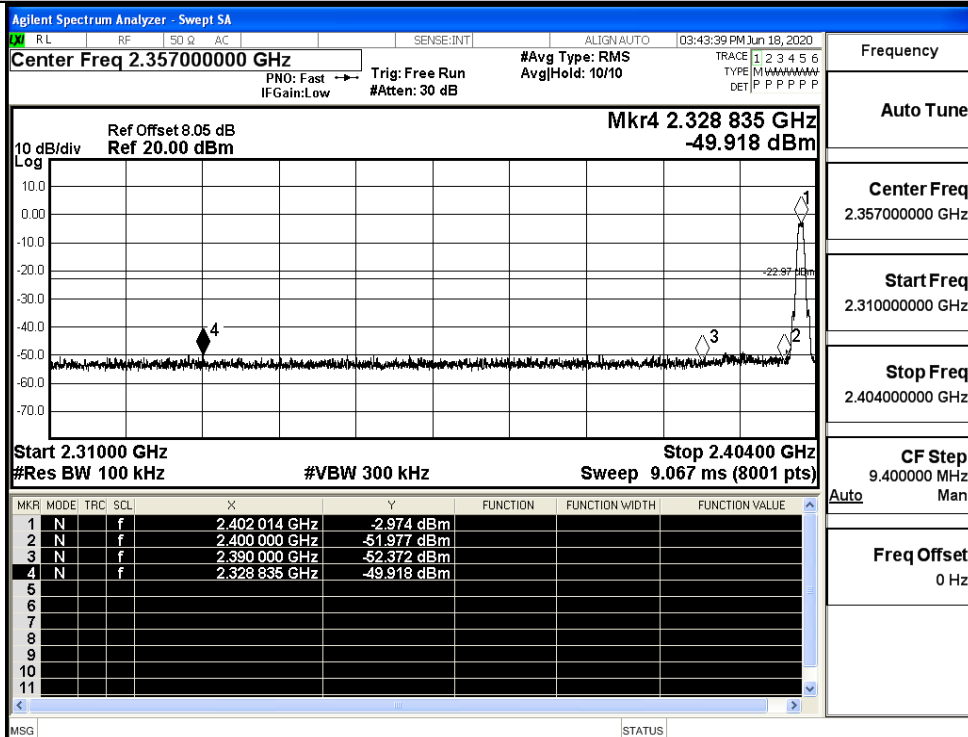


B.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.974	-49.918	-22.97	PASS
BT LE	HCH	-1.929	-48.521	-21.93	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

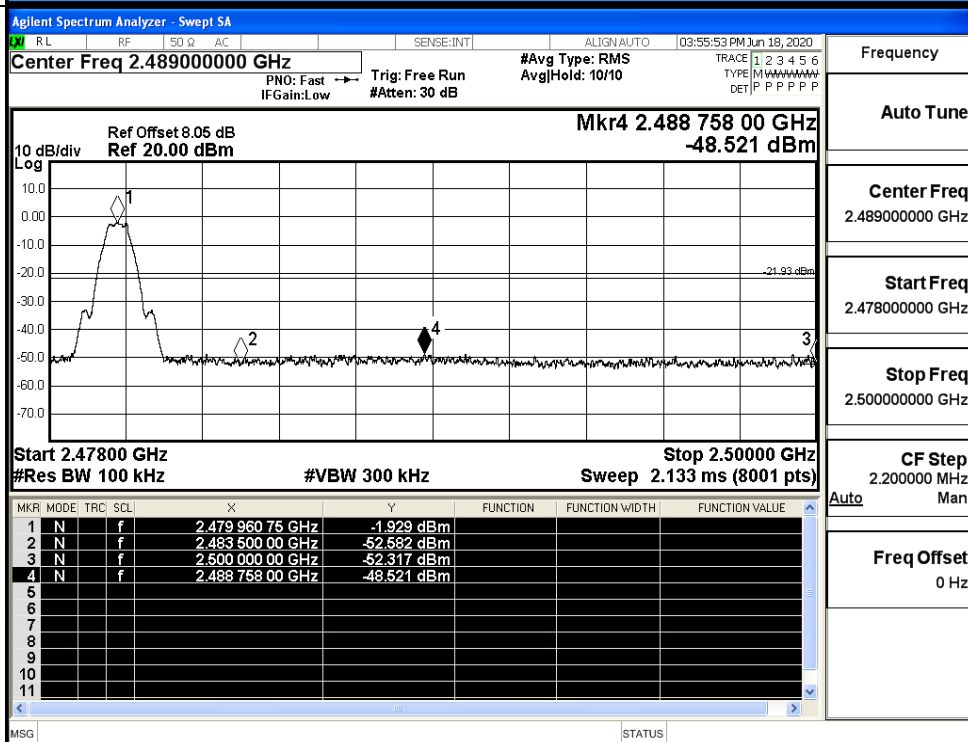
9.400000 MHz

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

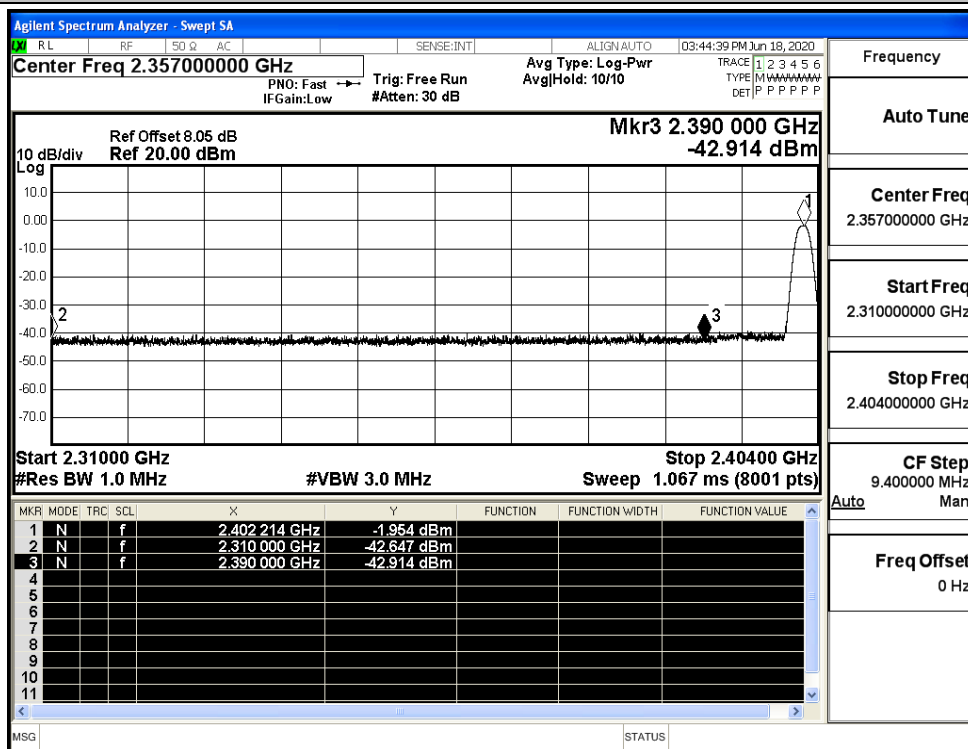
Freq Offset

0 Hz

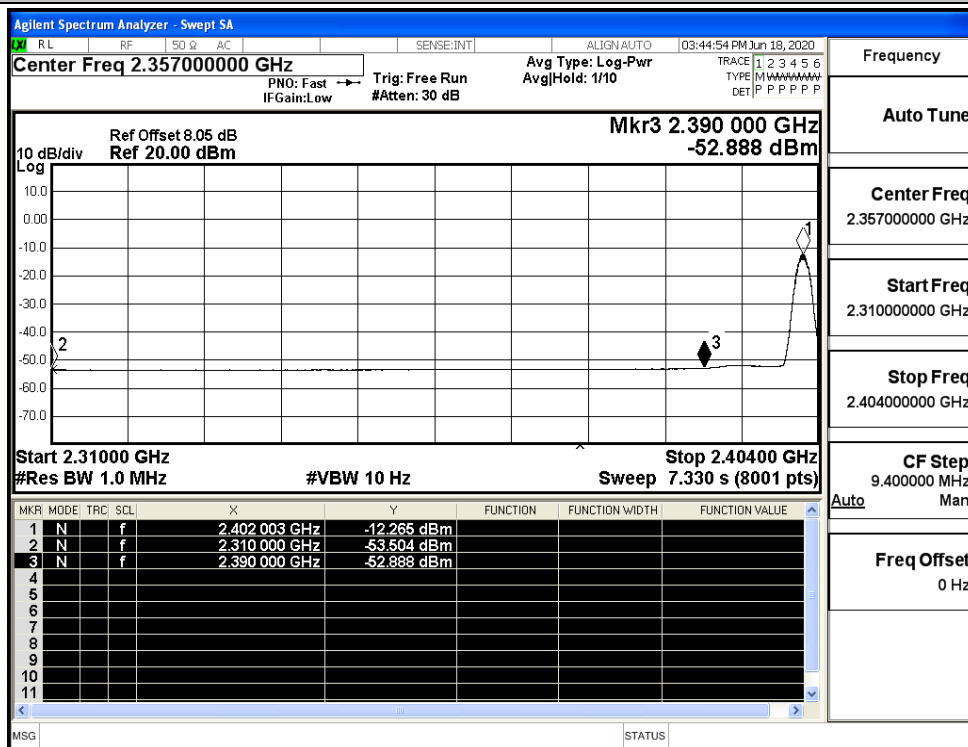
B.8 Restrict-band band-edge measurements

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	-42.65	2.0	0	54.58	PEAK	74	PASS
		Ant1	2310.0	-53.50	2.0	0	43.73	AV	54	PASS
		Ant1	2390.0	-42.91	2.0	0	54.32	PEAK	74	PASS
		Ant1	2390.0	-52.89	2.0	0	44.34	AV	54	PASS
	2480	Ant1	2483.5	-41.82	2.0	0	55.41	PEAK	74	PASS
		Ant1	2483.5	-51.87	2.0	0	45.36	AV	54	PASS
		Ant1	2500.0	-41.01	2.0	0	56.22	PEAK	74	PASS
		Ant1	2500.0	-52.44	2.0	0	44.79	AV	54	PASS

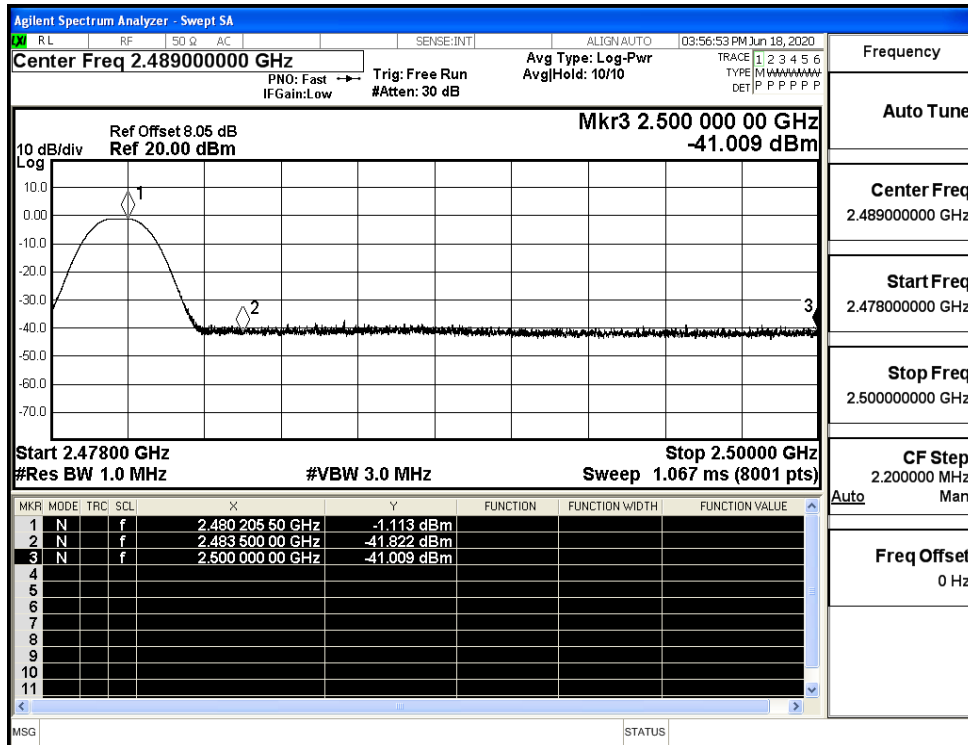
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

