



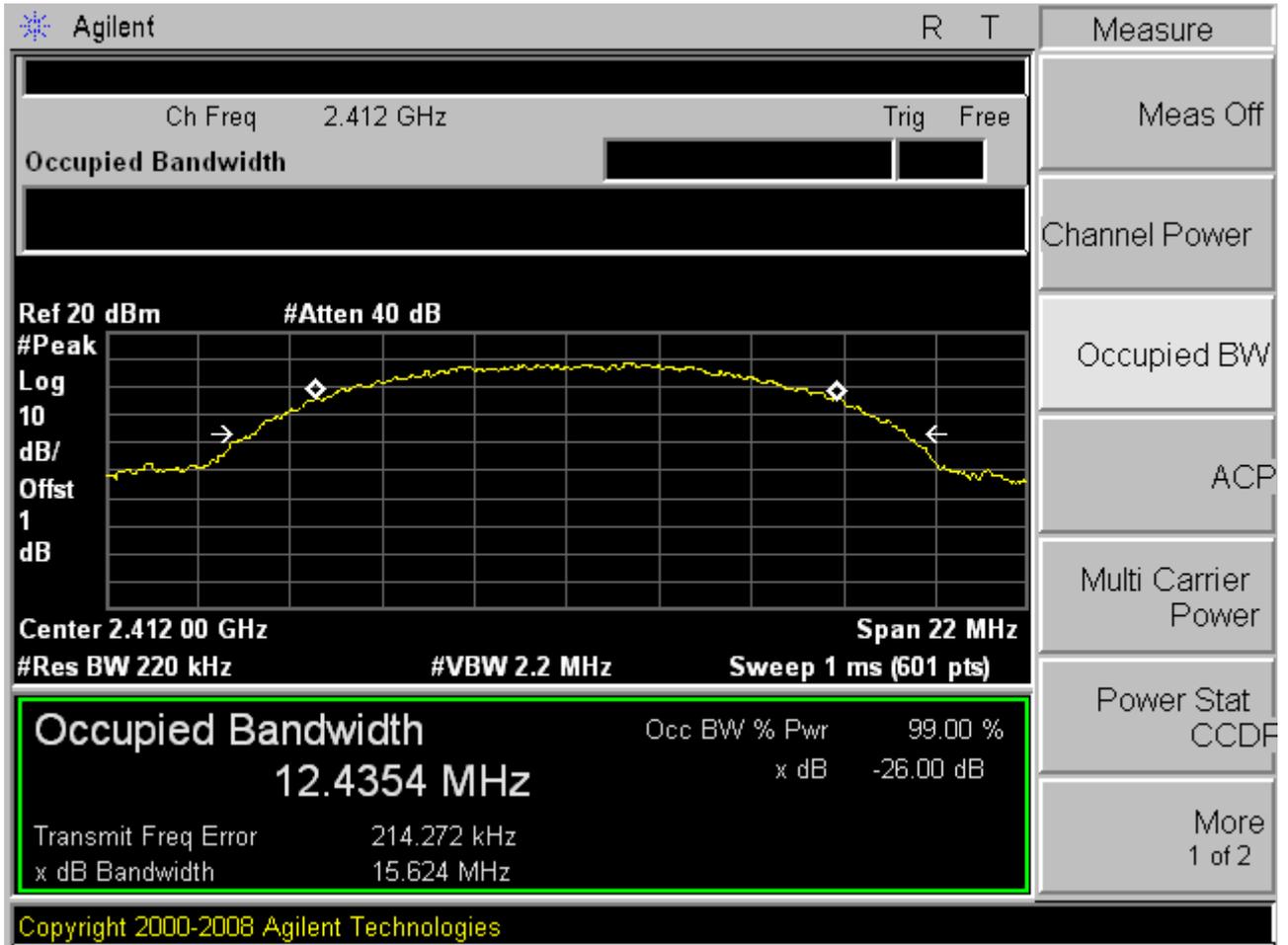
Appendix A

6dB bandwidth measurement

According to FCC Part 15.247 (a) (2)

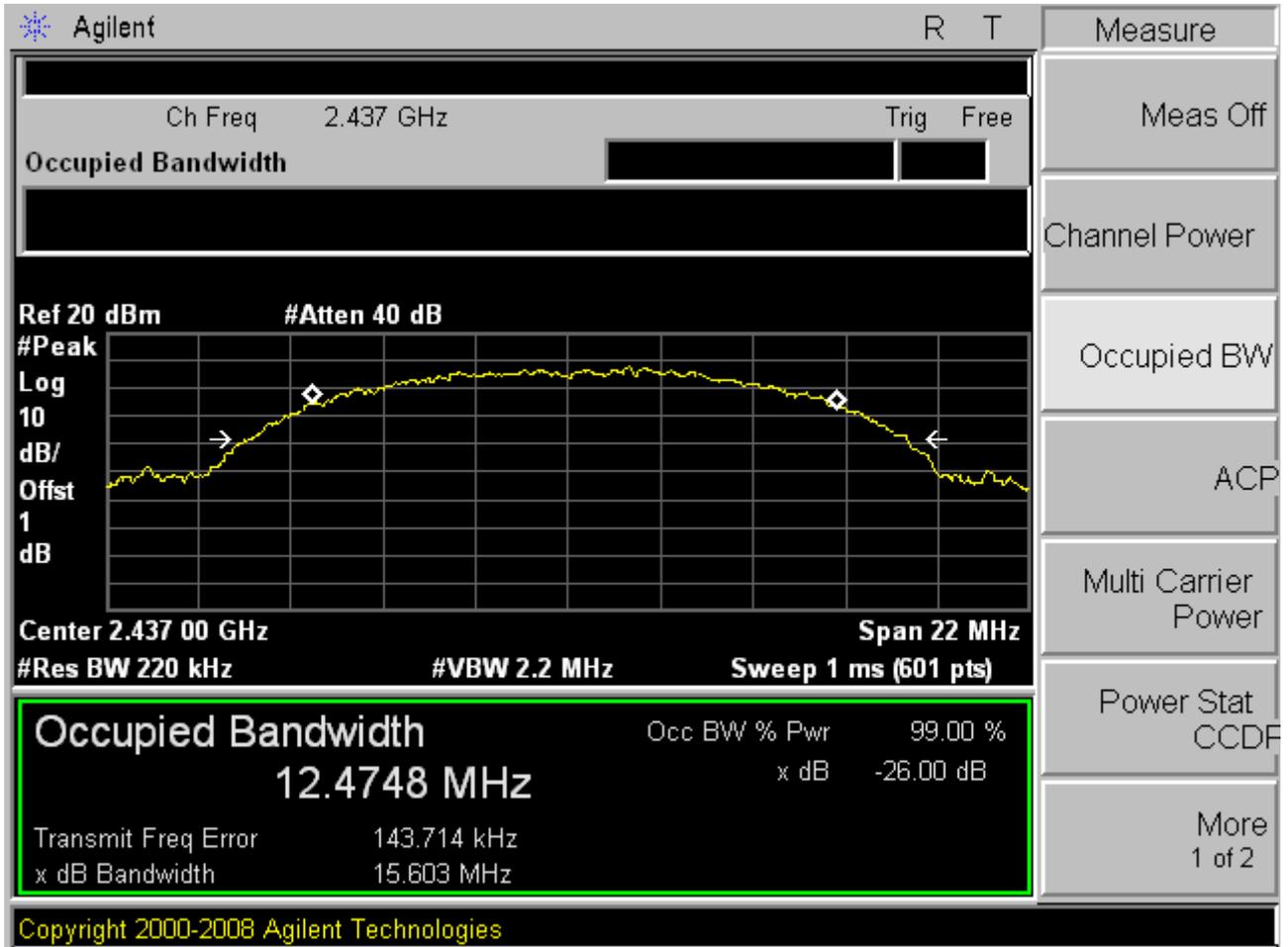


TM1 Channel 1 (2412MHz)



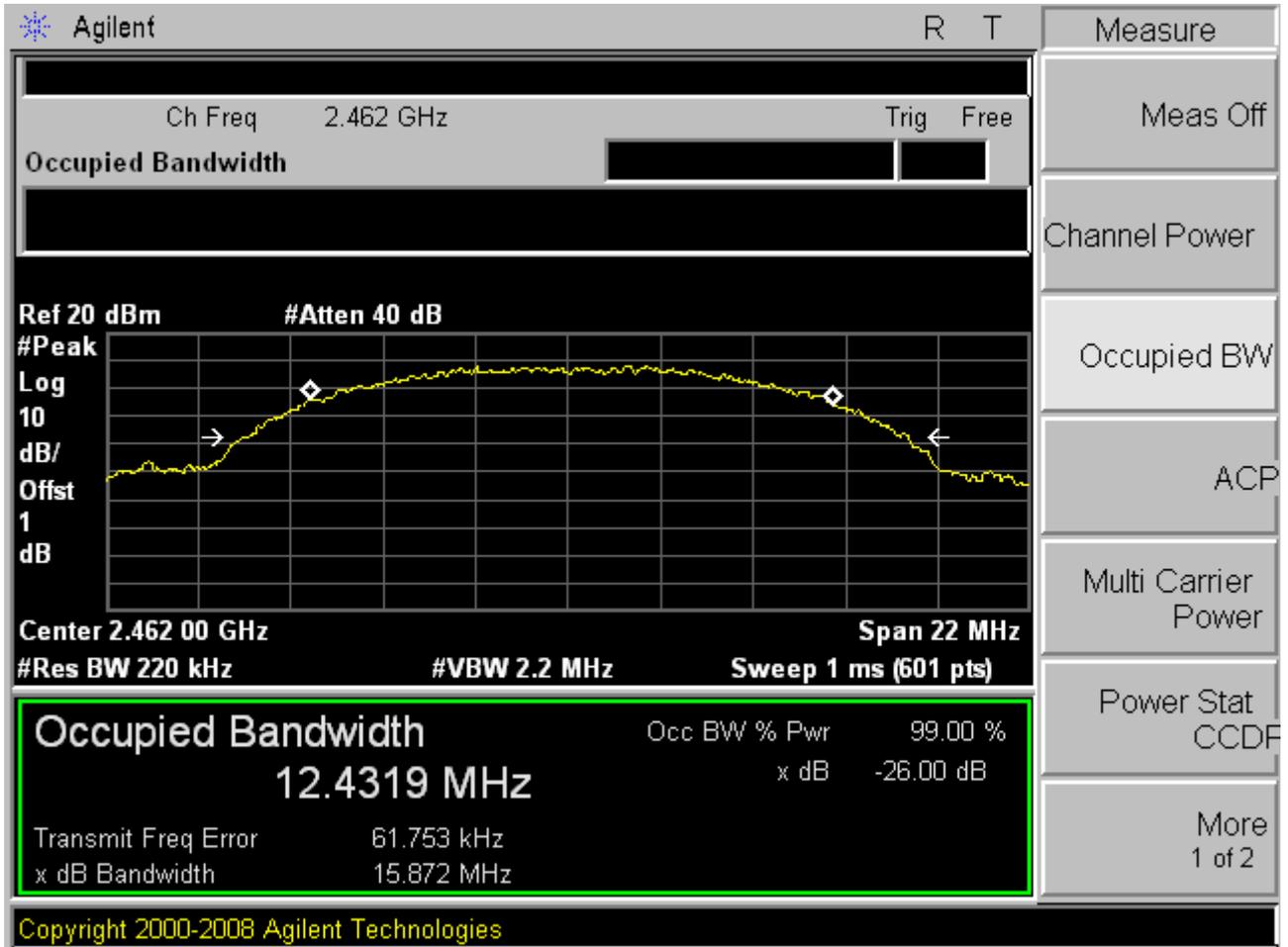


Channel 6 (2437MHz)



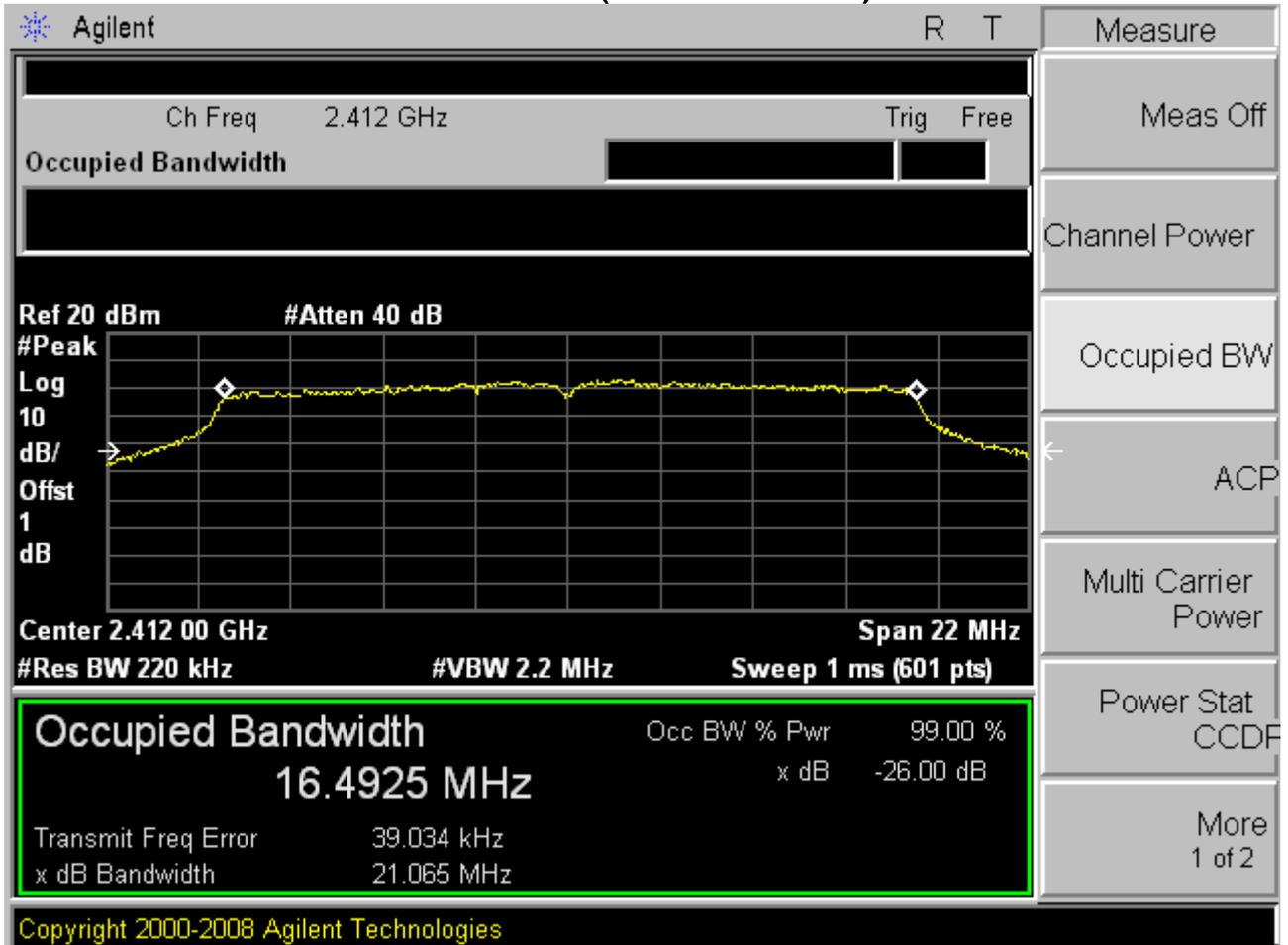


Channel 11 (2462MHz)



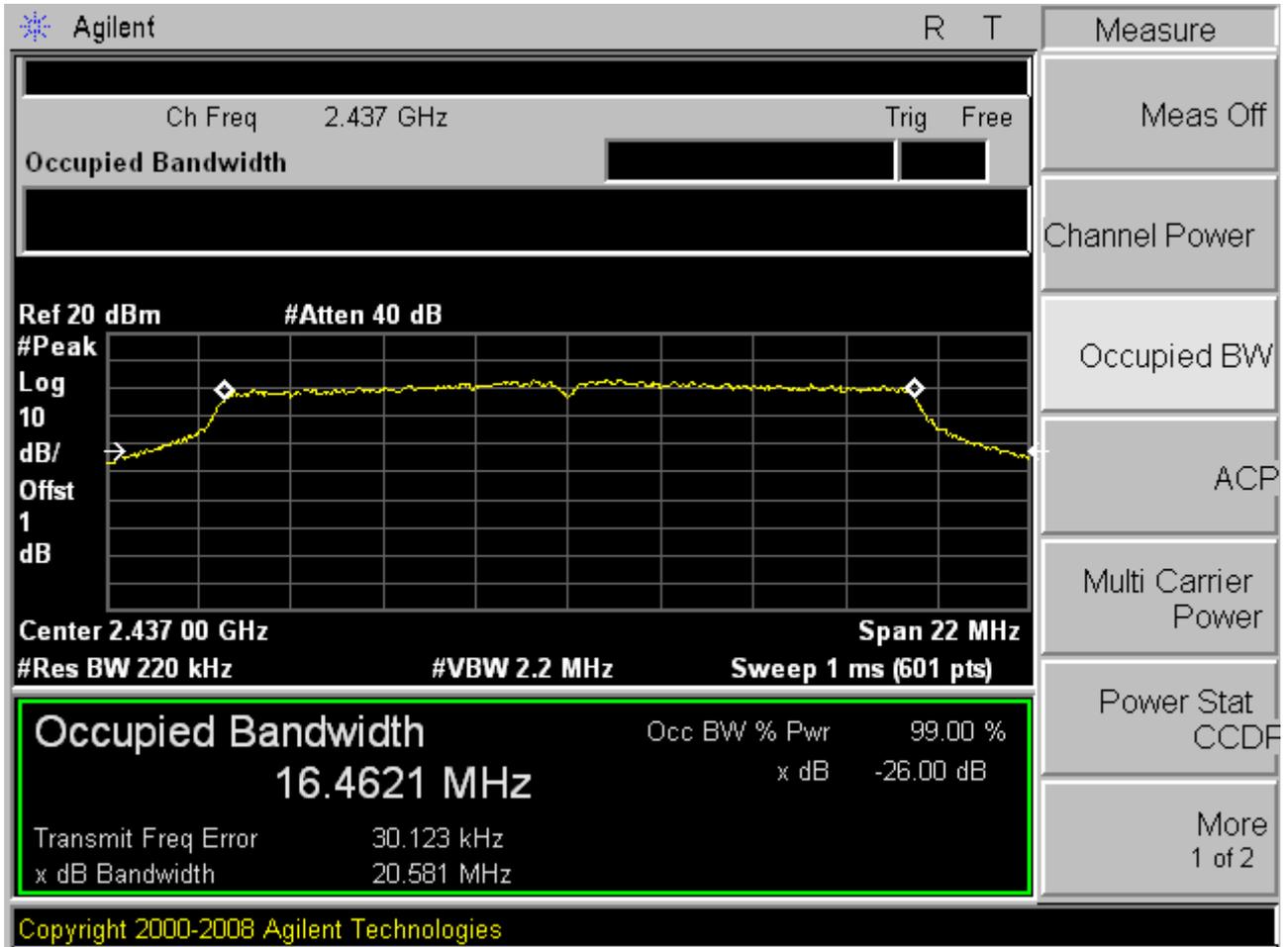


TM2 Channel 1 (2412MHz)



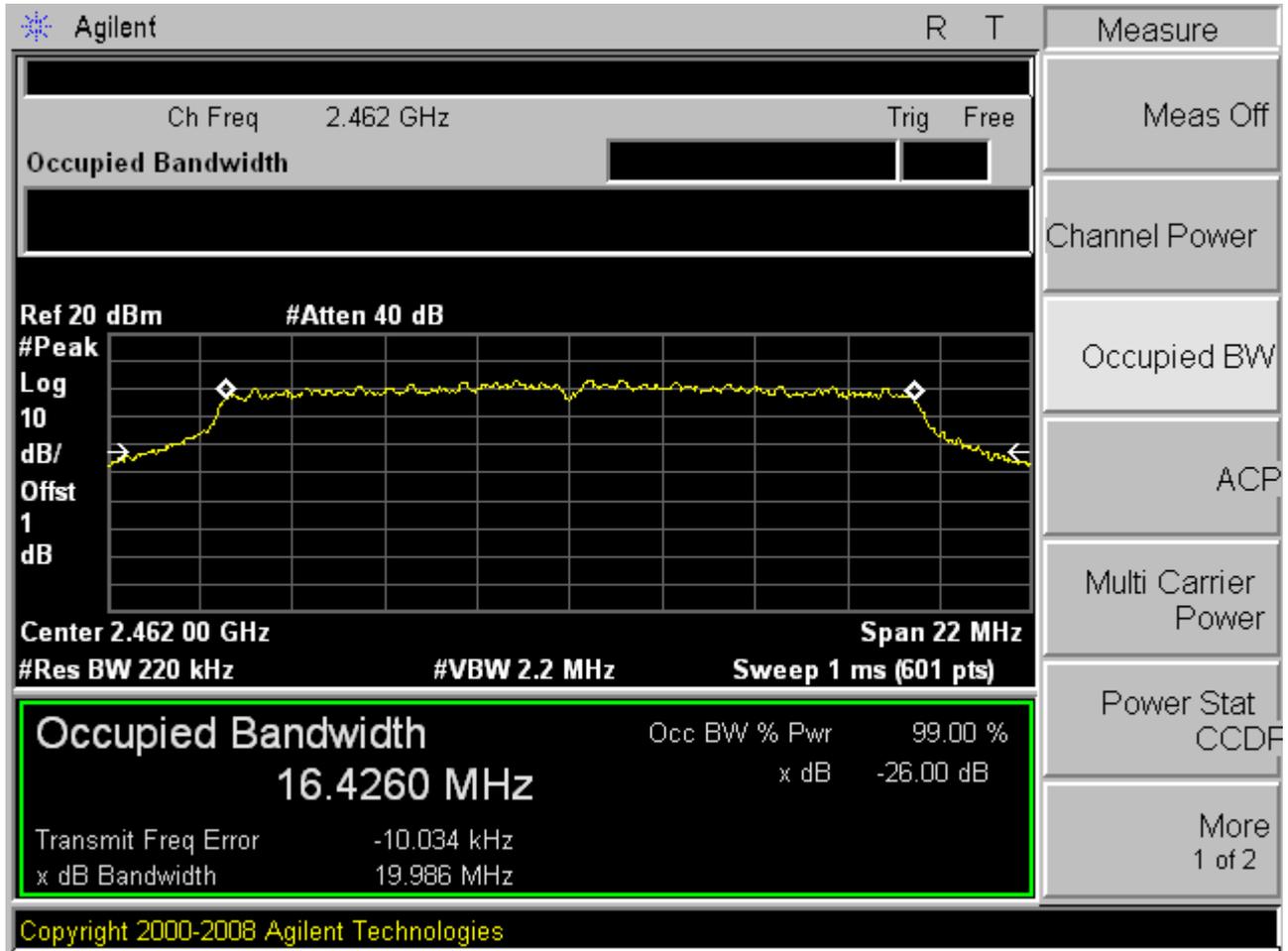


Channel 6 (2437MHz)



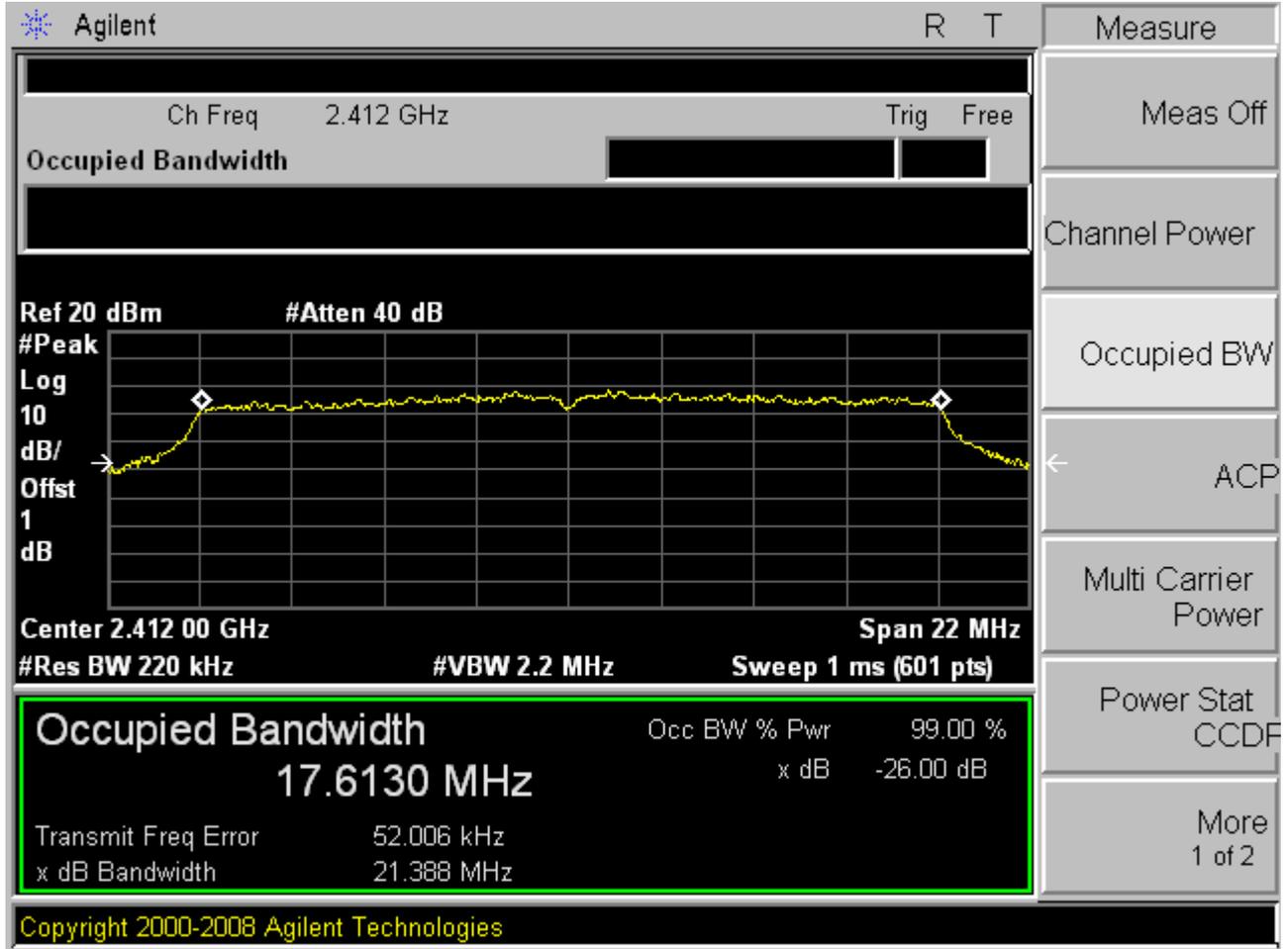


Channel 11 (2462MHz)



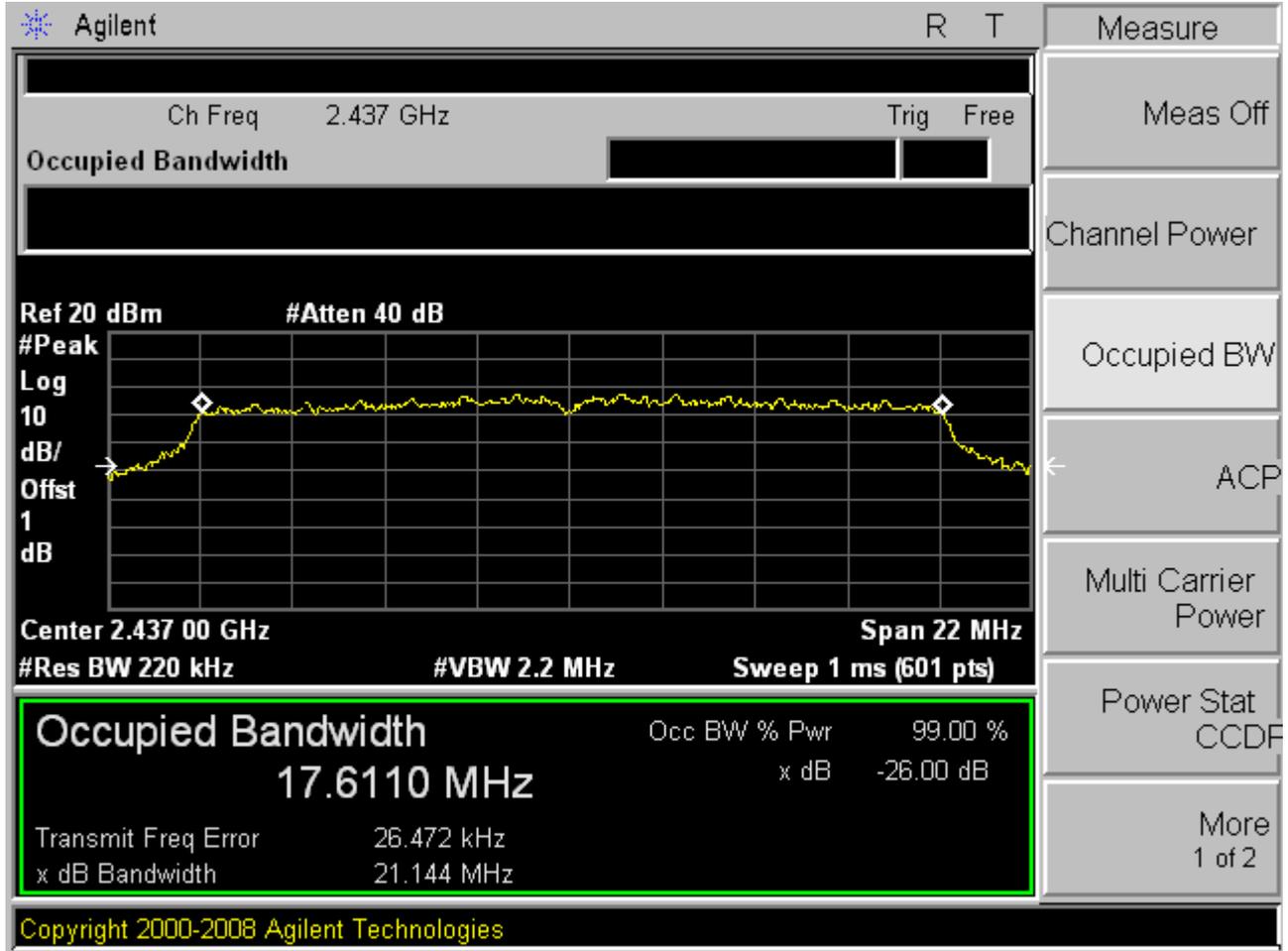


TM3 Channel 1 (2412MHz)



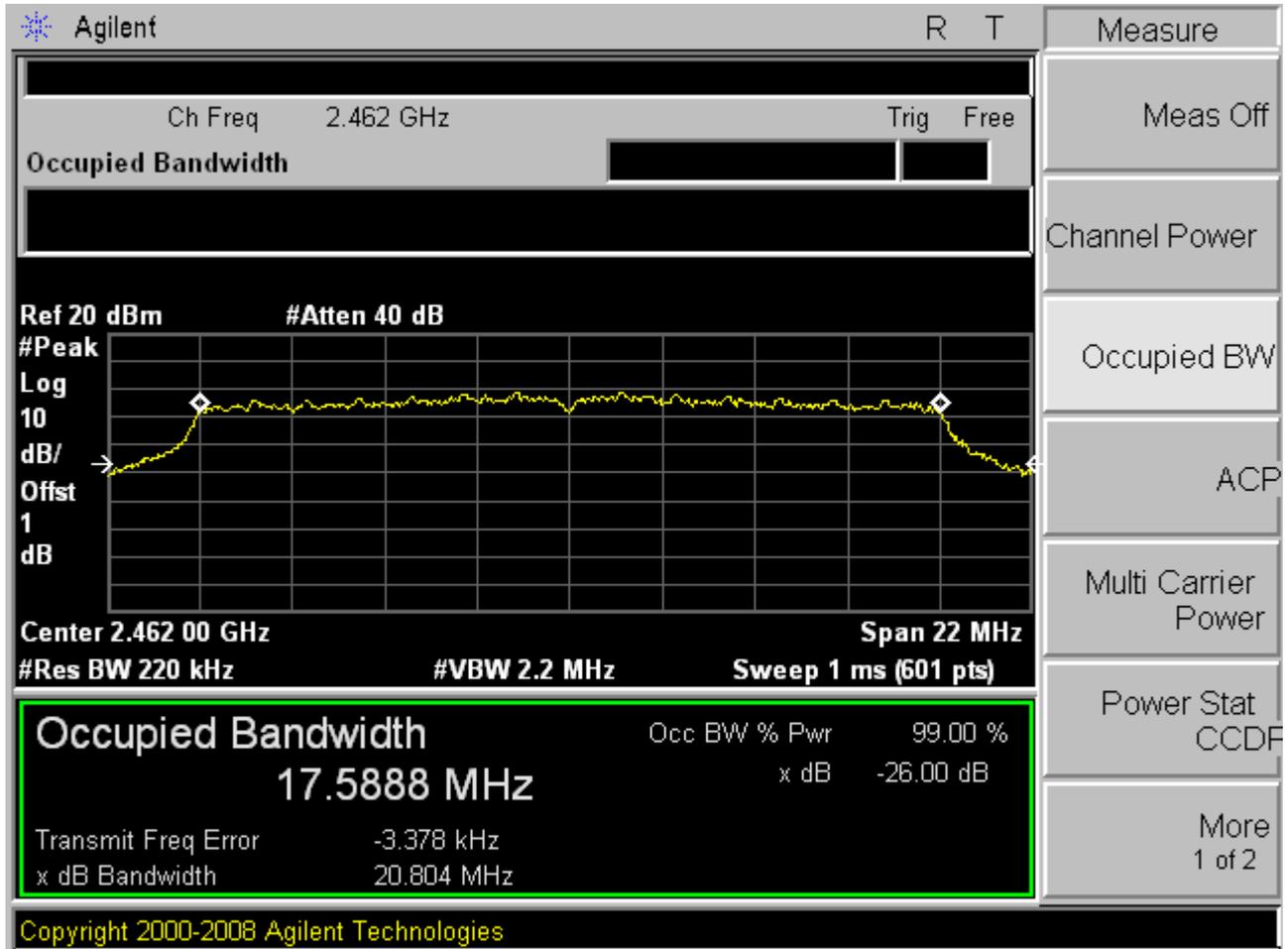


Channel 6 (2437MHz)





Channel 11 (2462MHz)





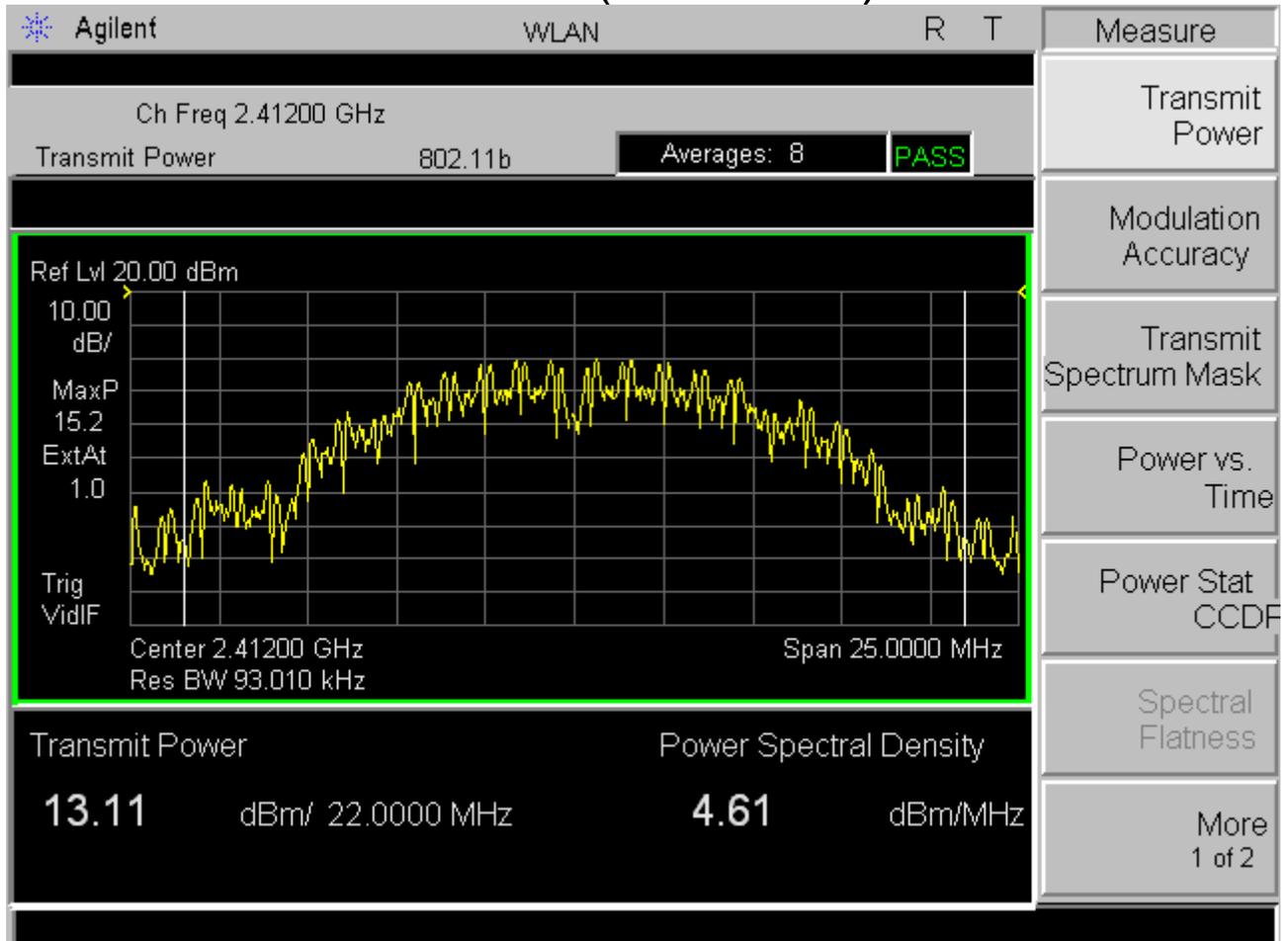
Appendix B

Conducted Peak output power

According to FCC Part 15.247 (b) (3)

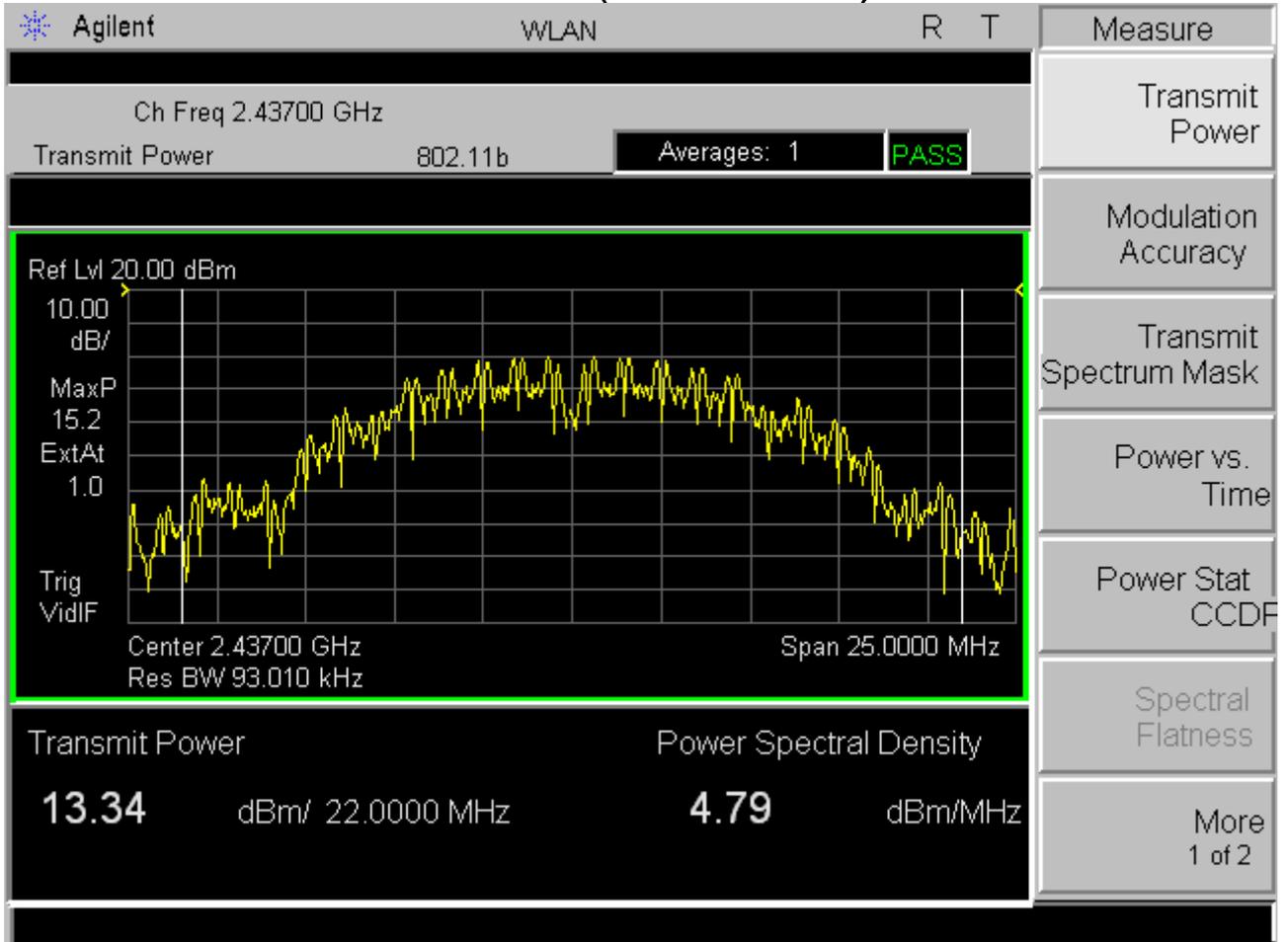


TM1 Channel 1 (2412MHz)



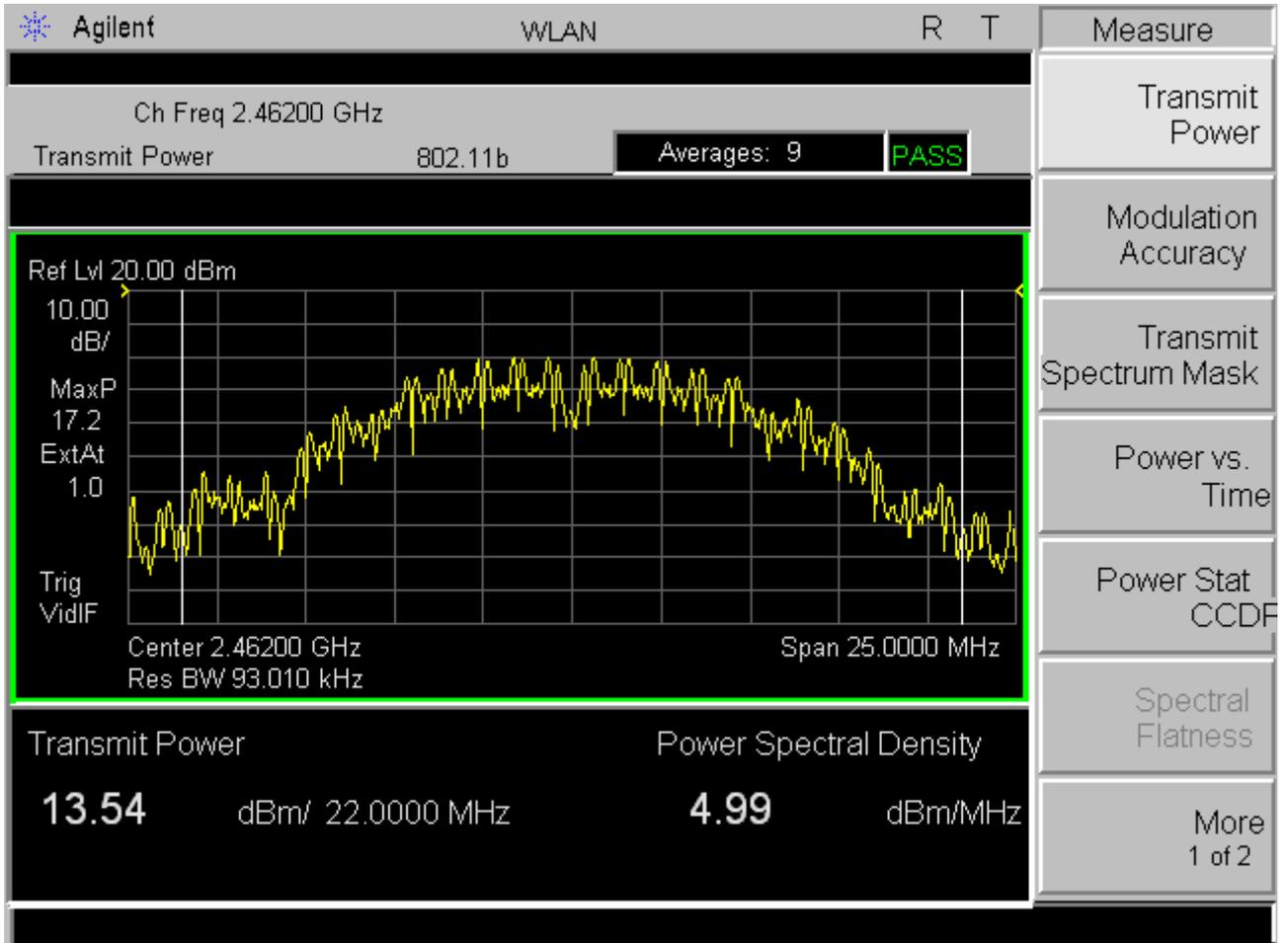


Channel 6 (2437MHz)





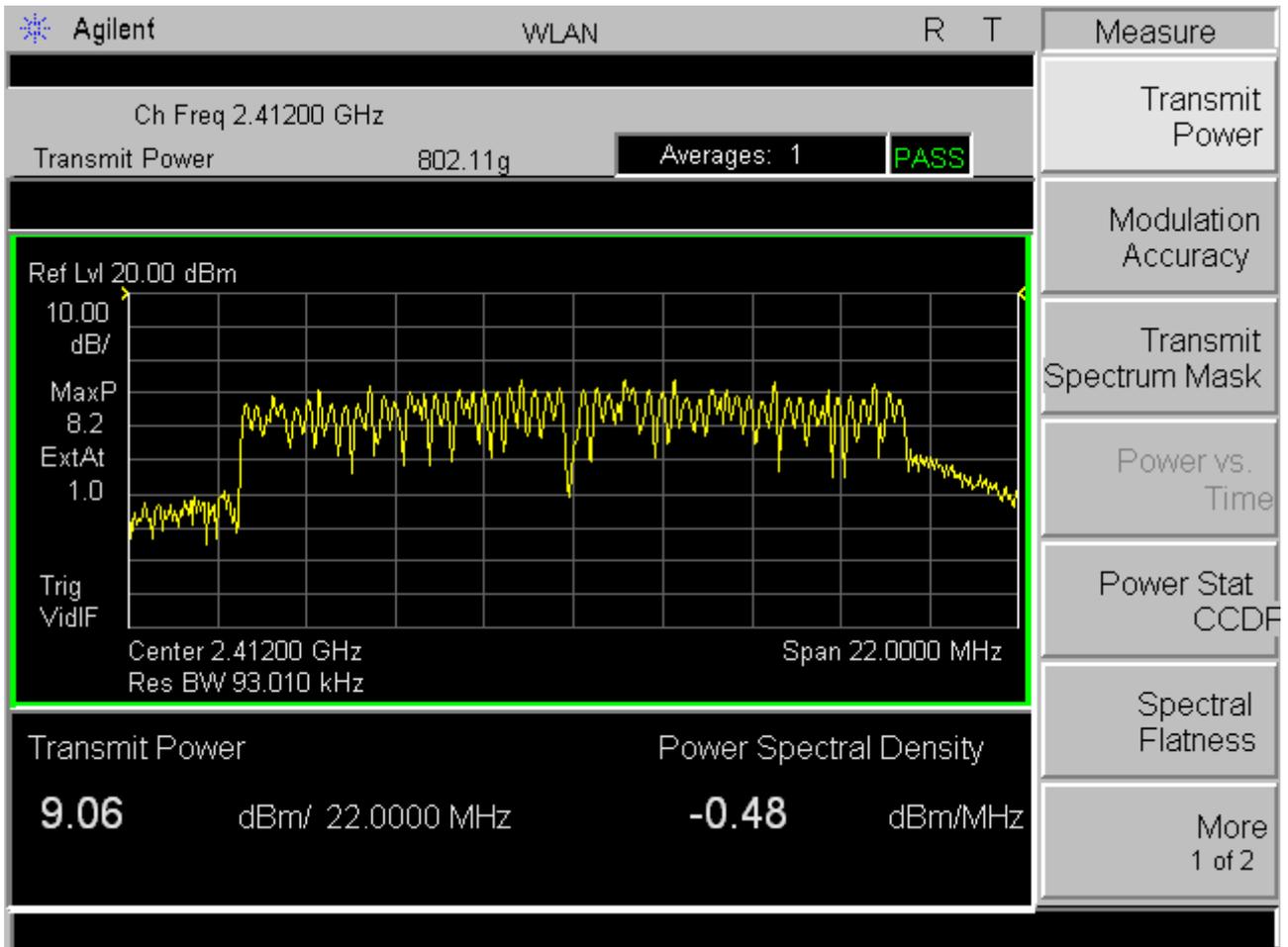
Channel 11 (2462MHz)





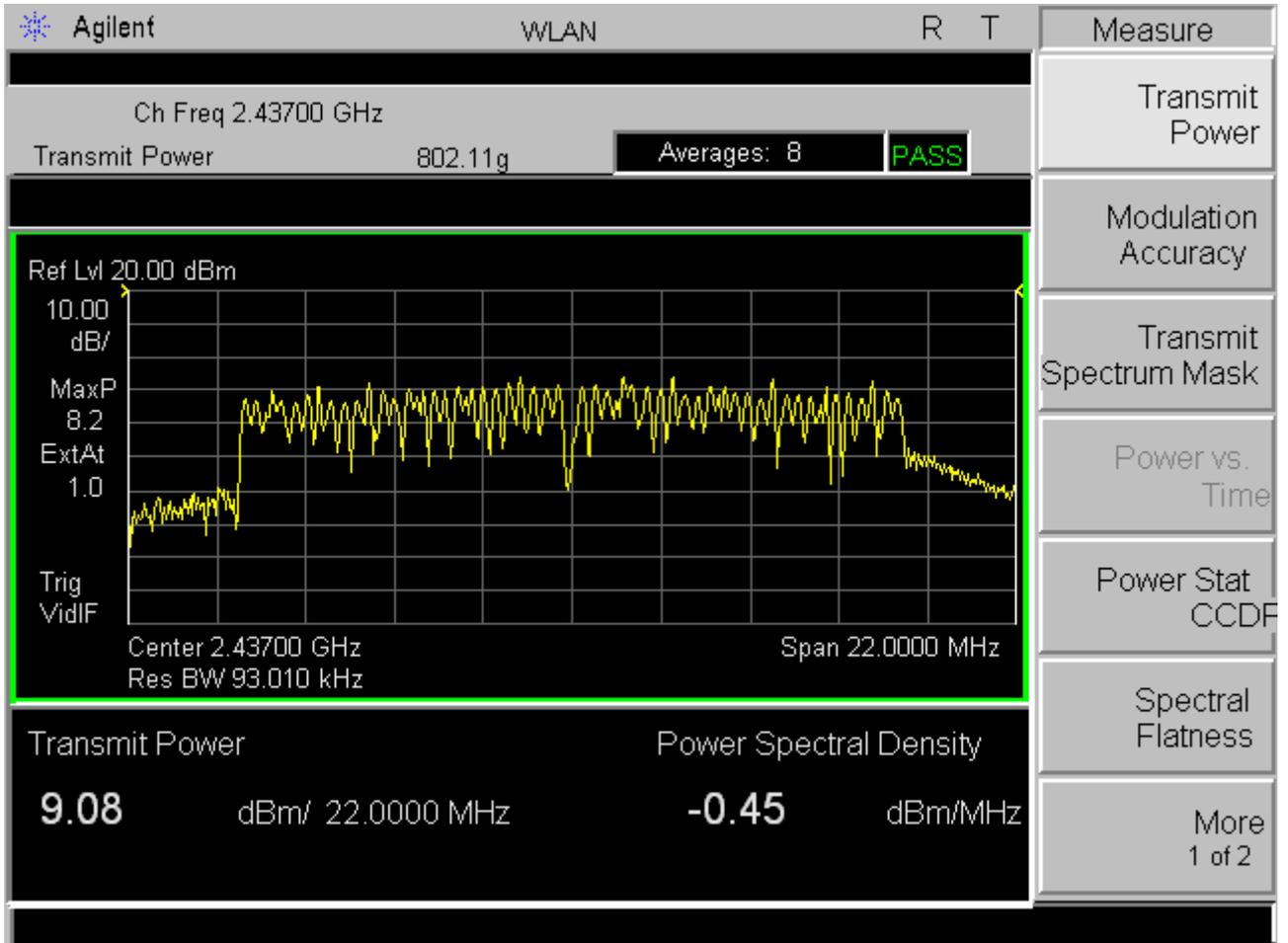
TM2

Channel 1 (2412MHz)



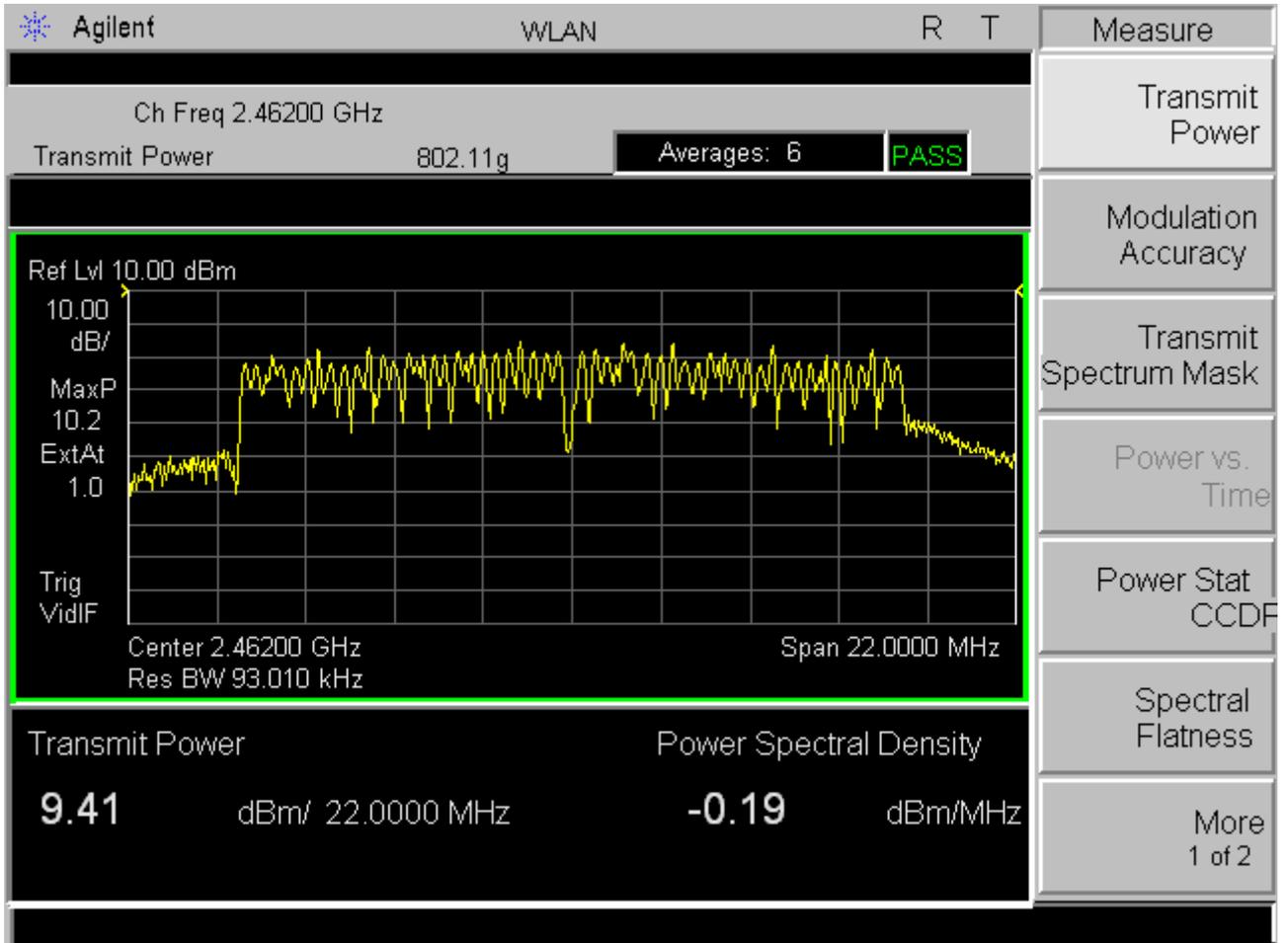


Channel 6 (2437MHz)



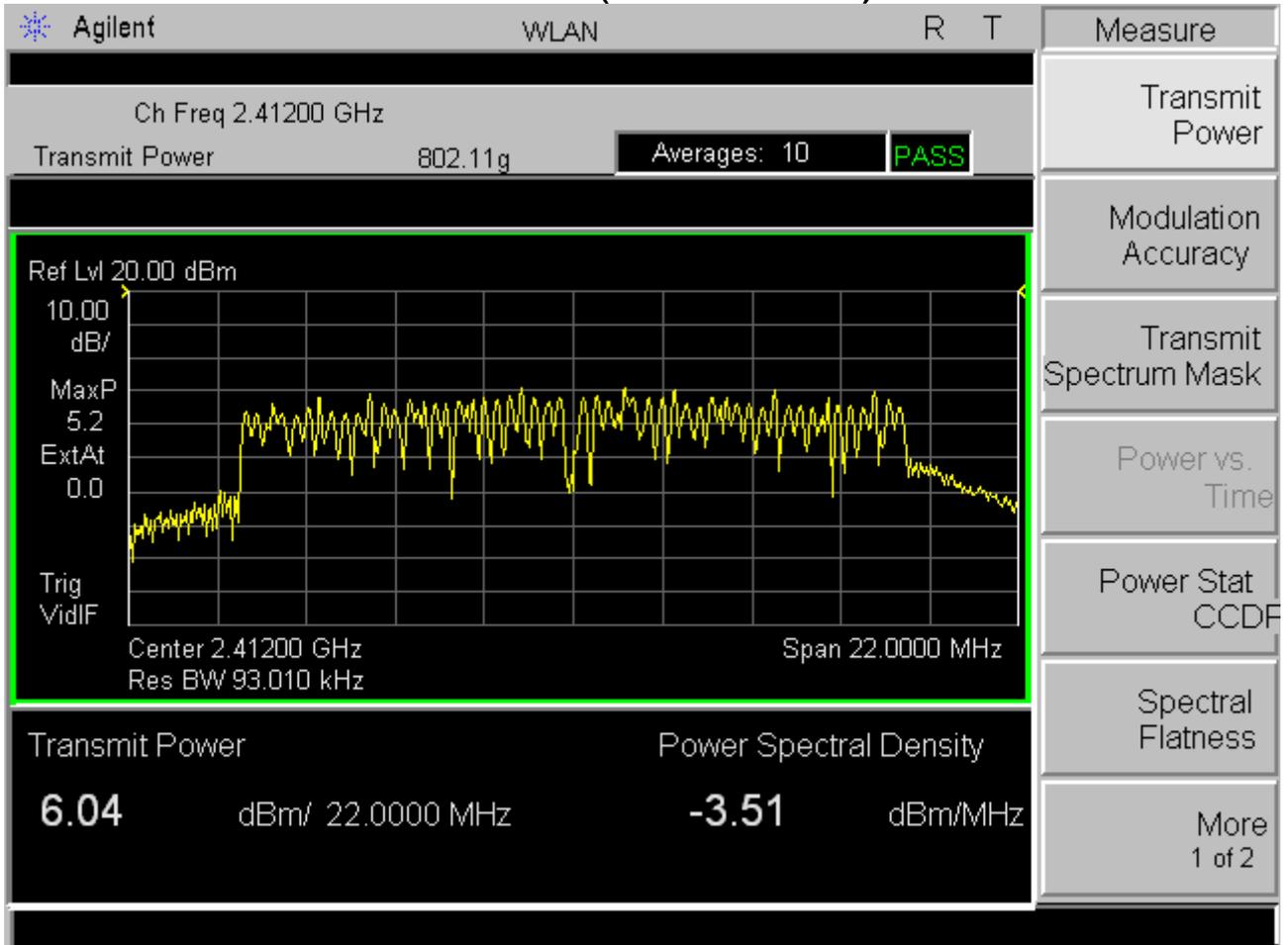


Channel 11 (2462MHz)



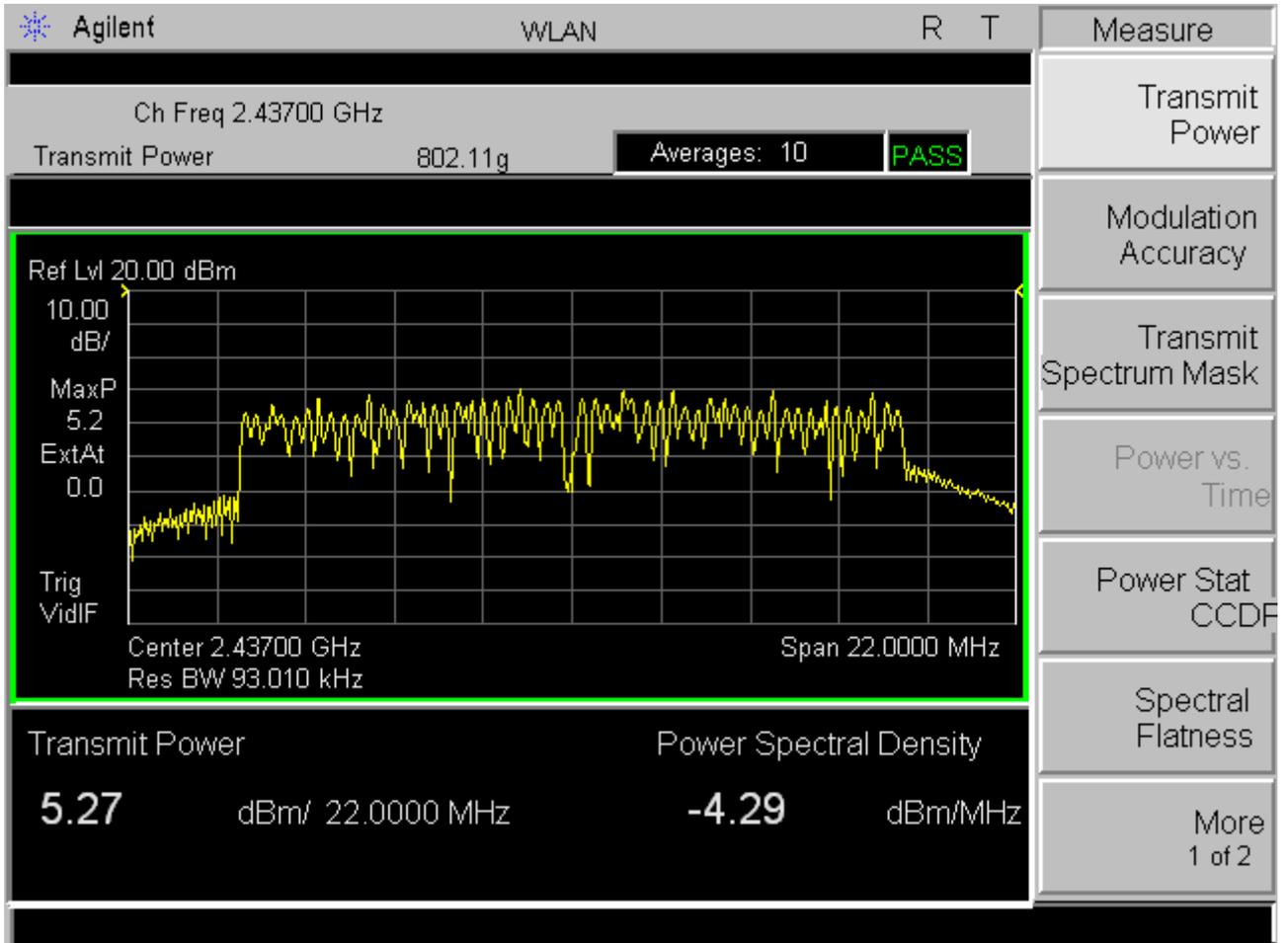


TM3 Channel 1 (2412MHz)



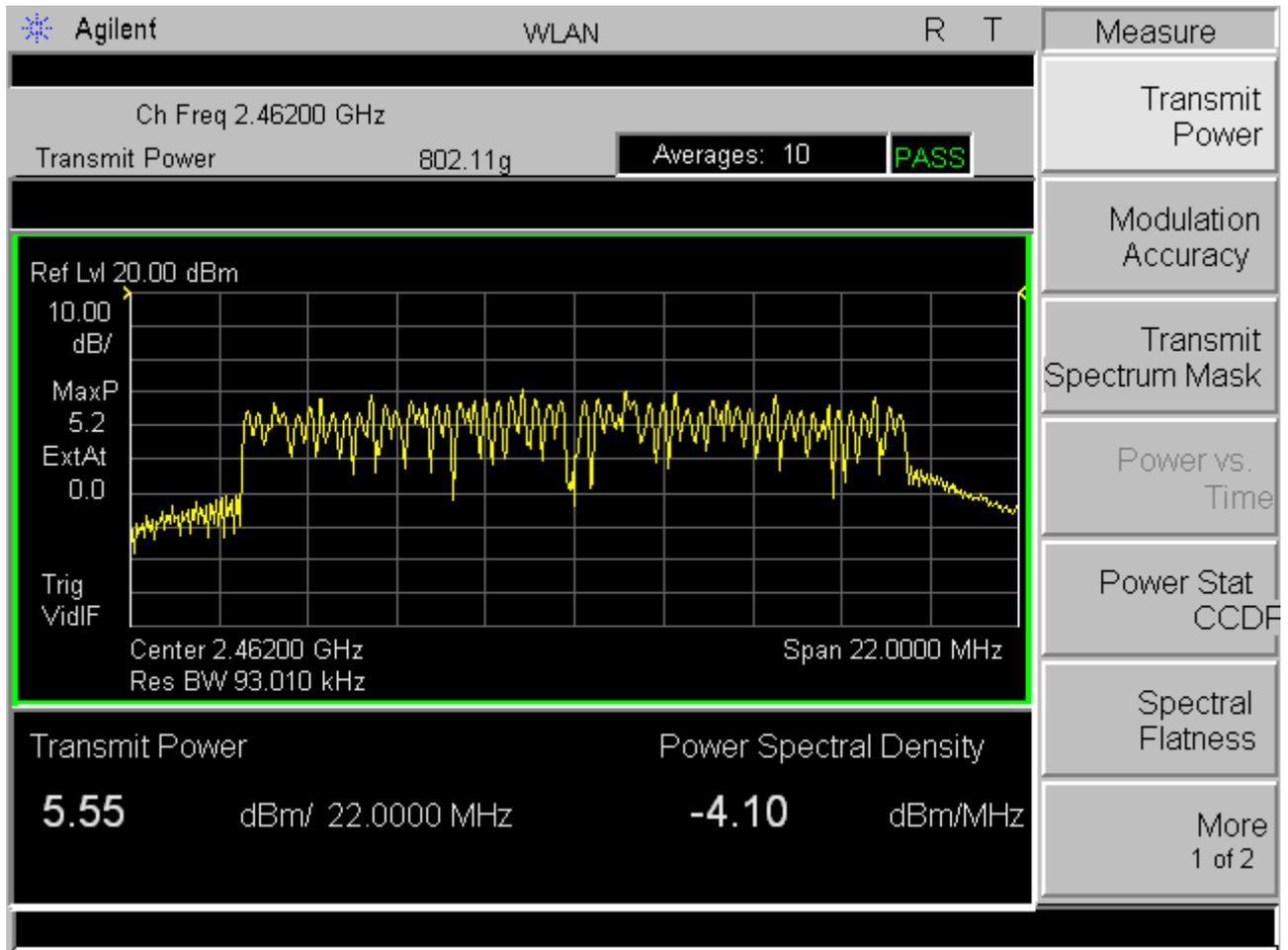


Channel 6 (2437MHz)





Channel 11 (2462MHz)





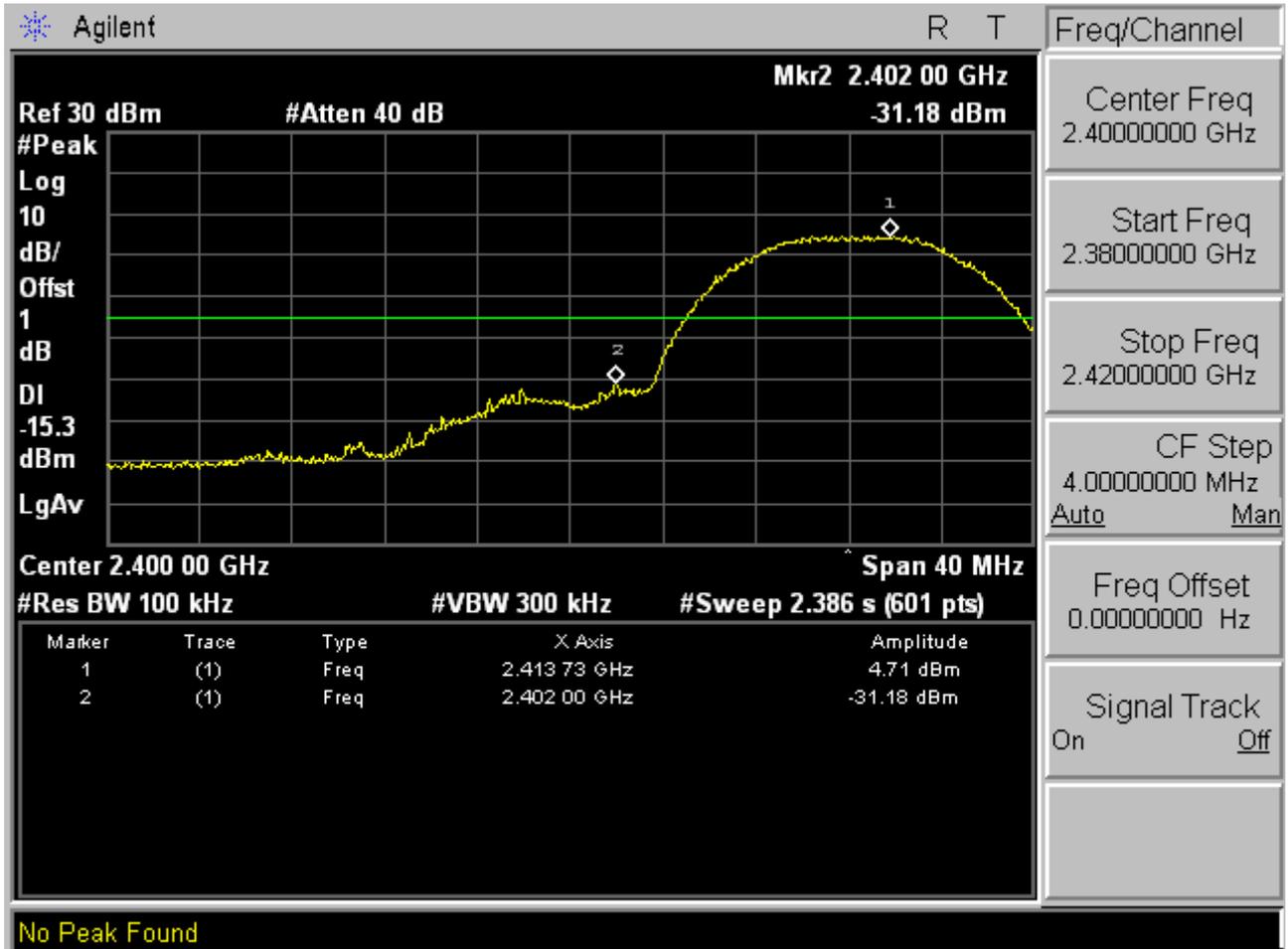
Appendix C

Band edge spurious emission

According to FCC Part 15.247 (d)

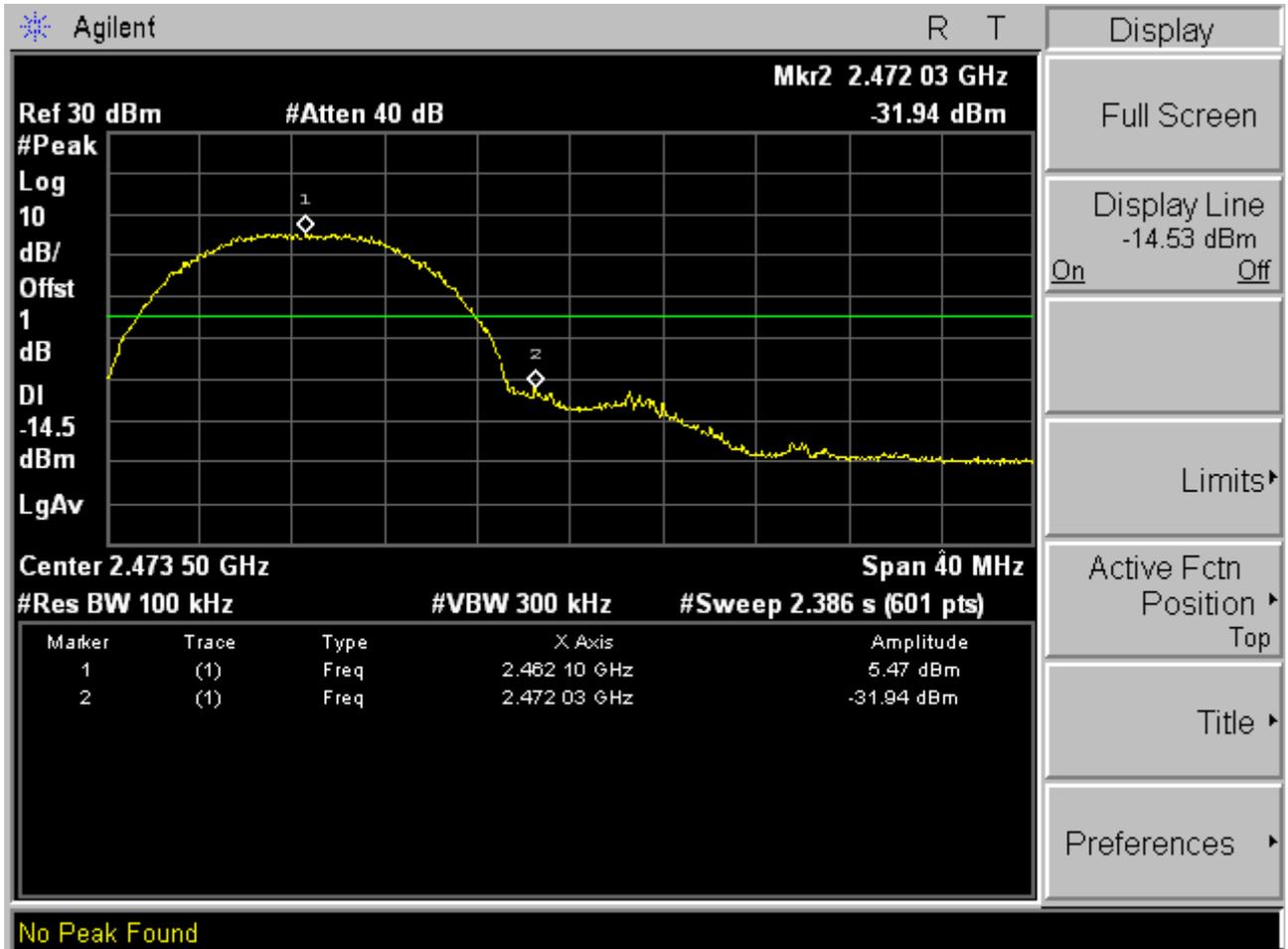


TM1 Low edge



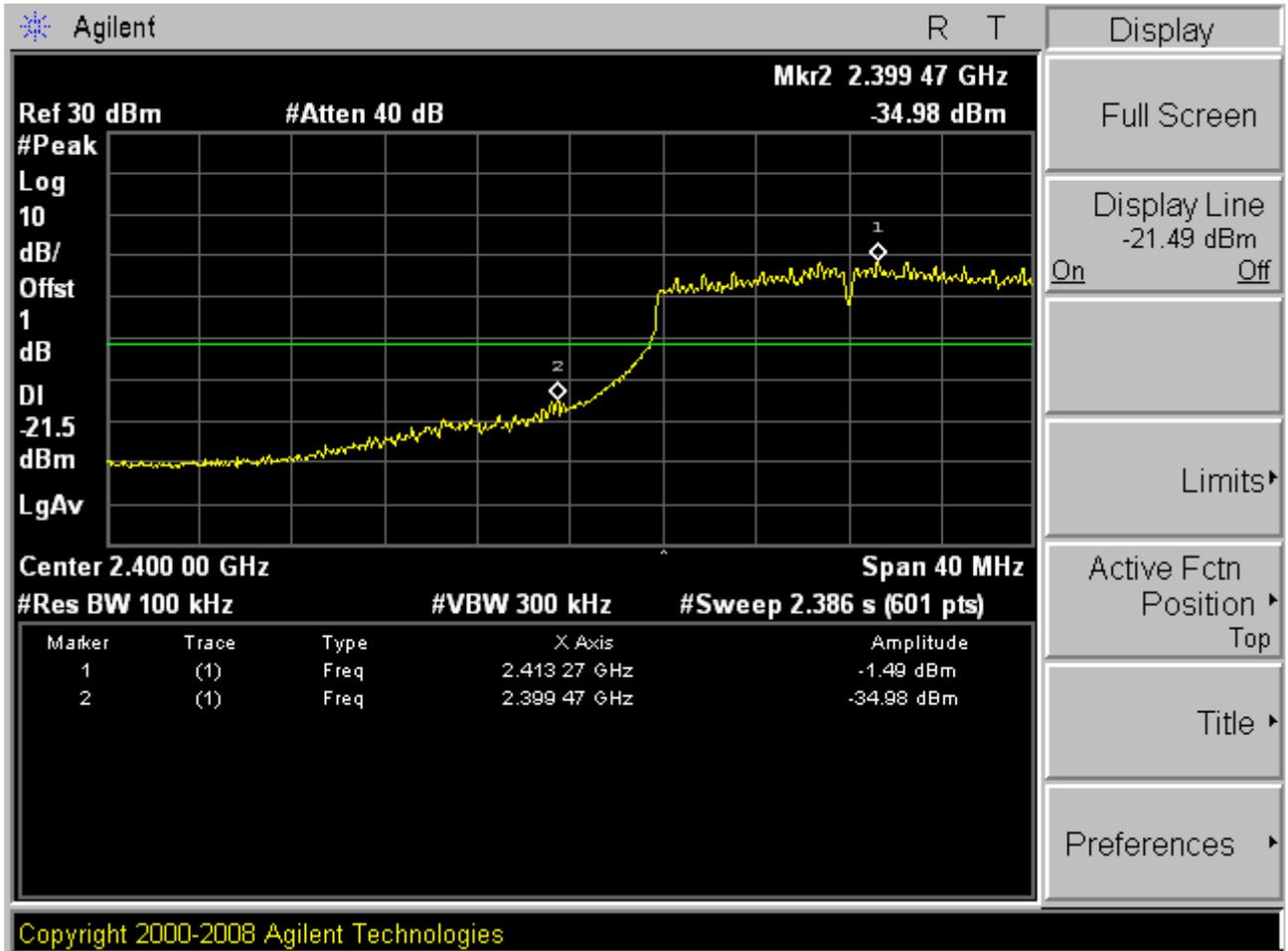


High edge



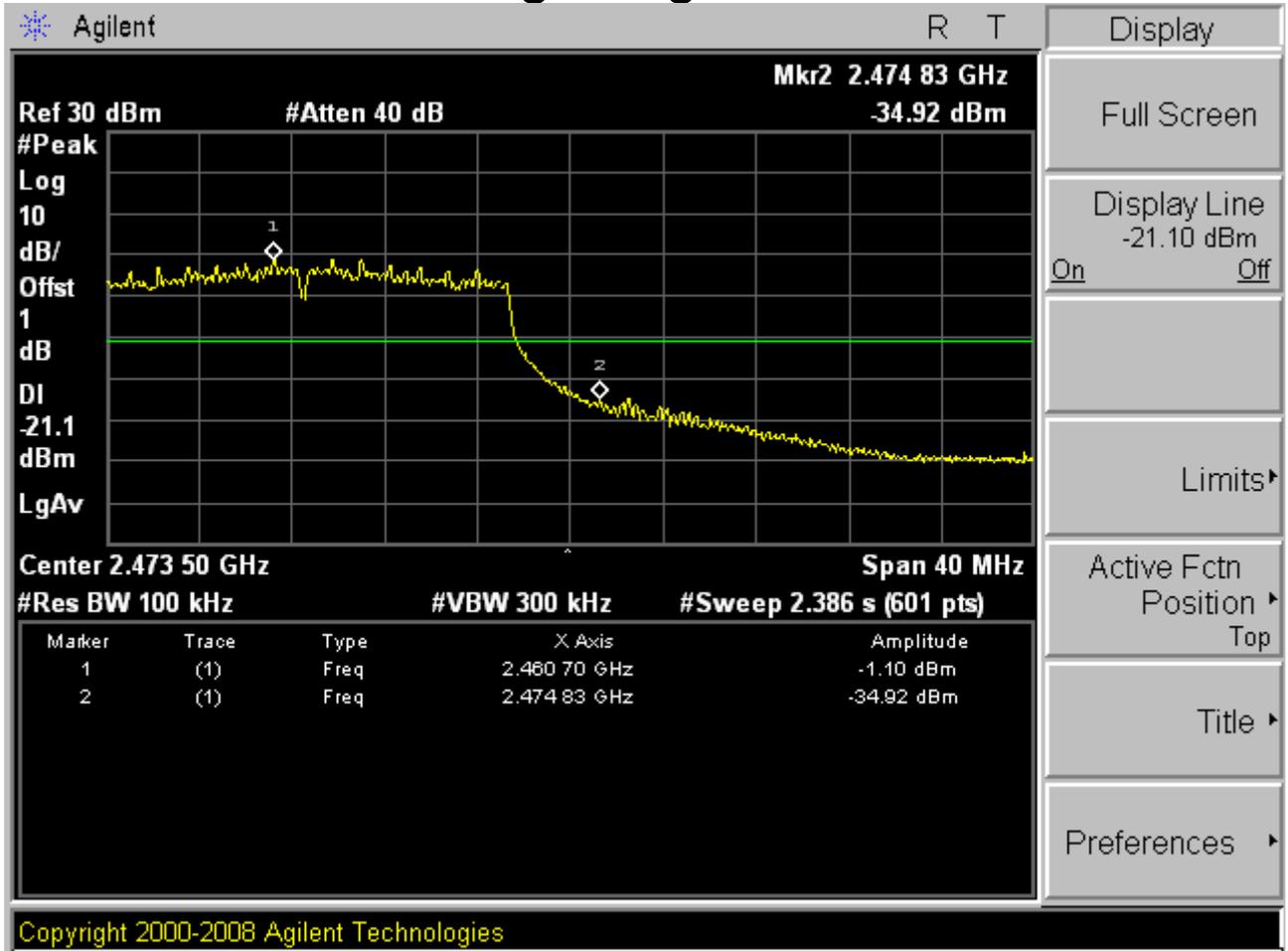


TM2 Low edge





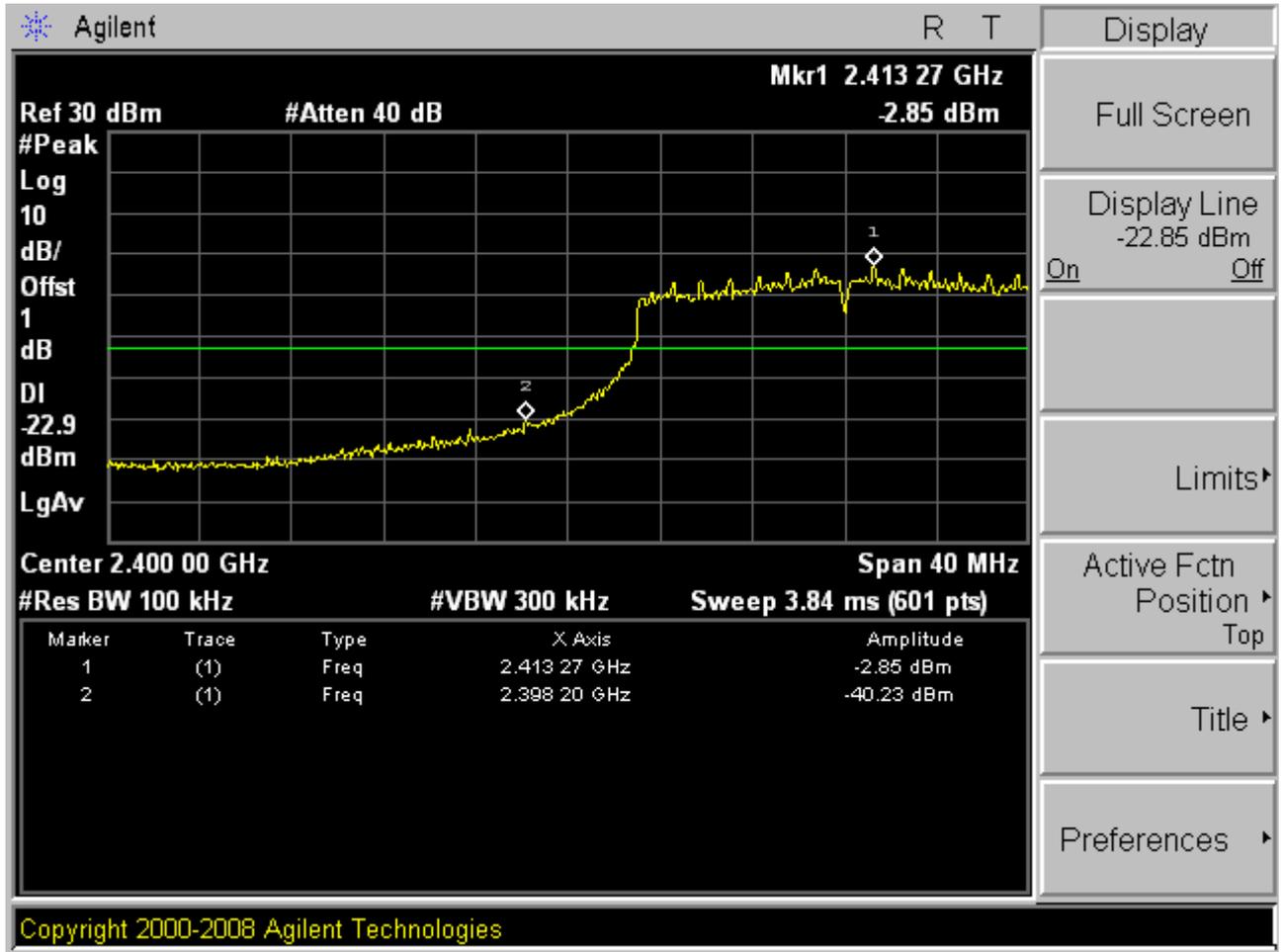
High edge





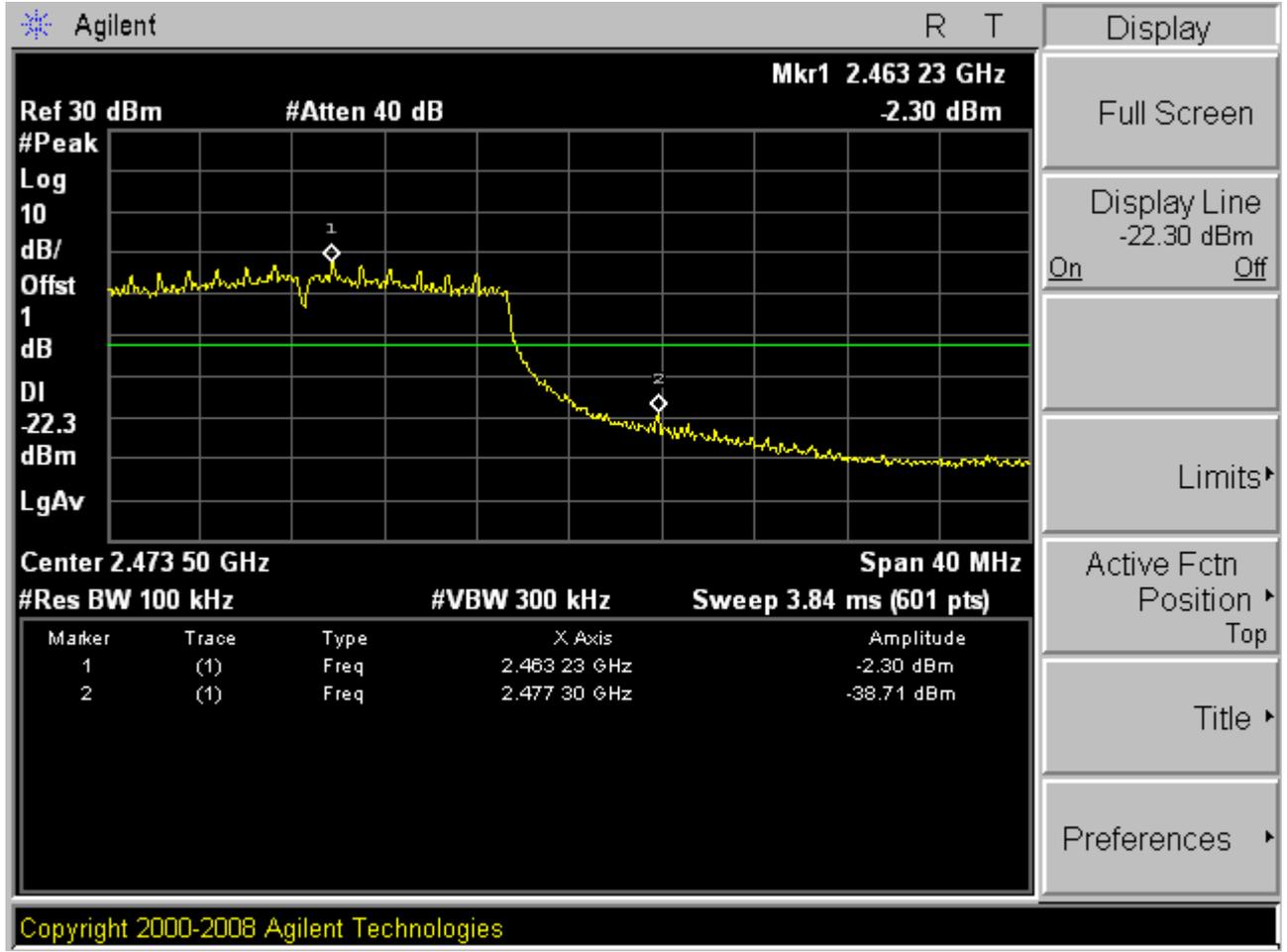
TM1

Low edge





High edge





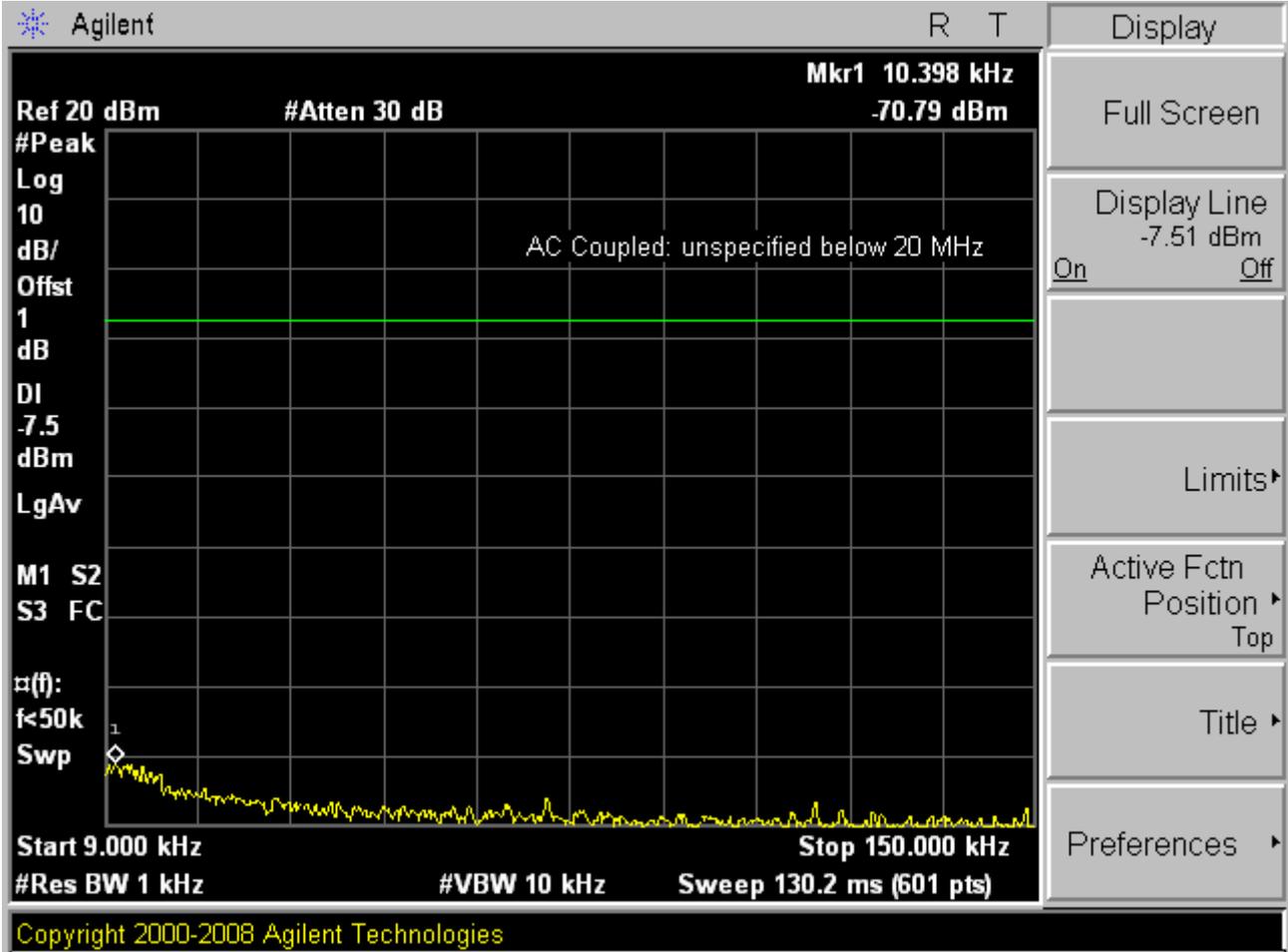
Appendix D

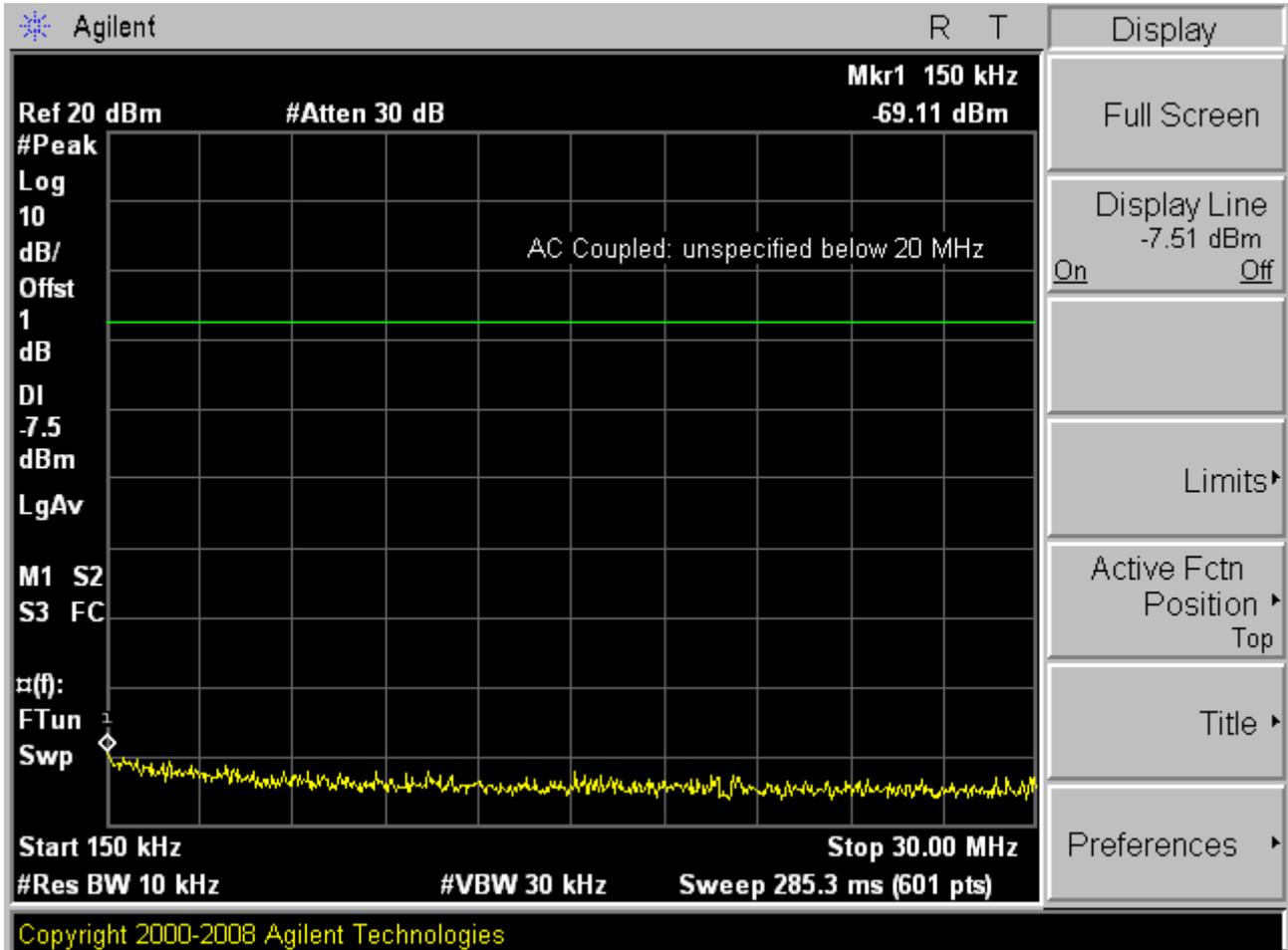
Conducted RF spurious

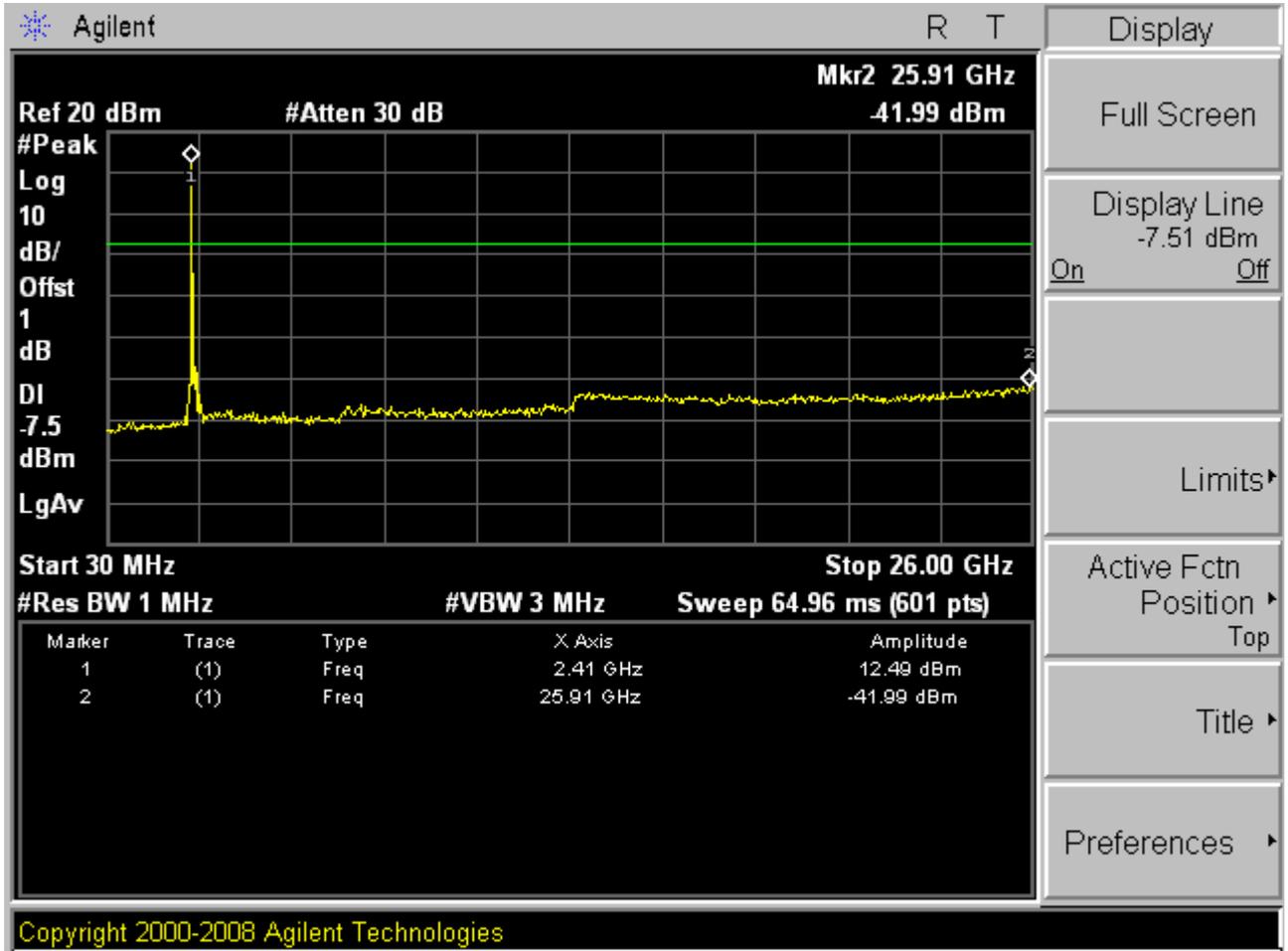
According to FCC Part 15.247 (d)



TM1 Channel 1

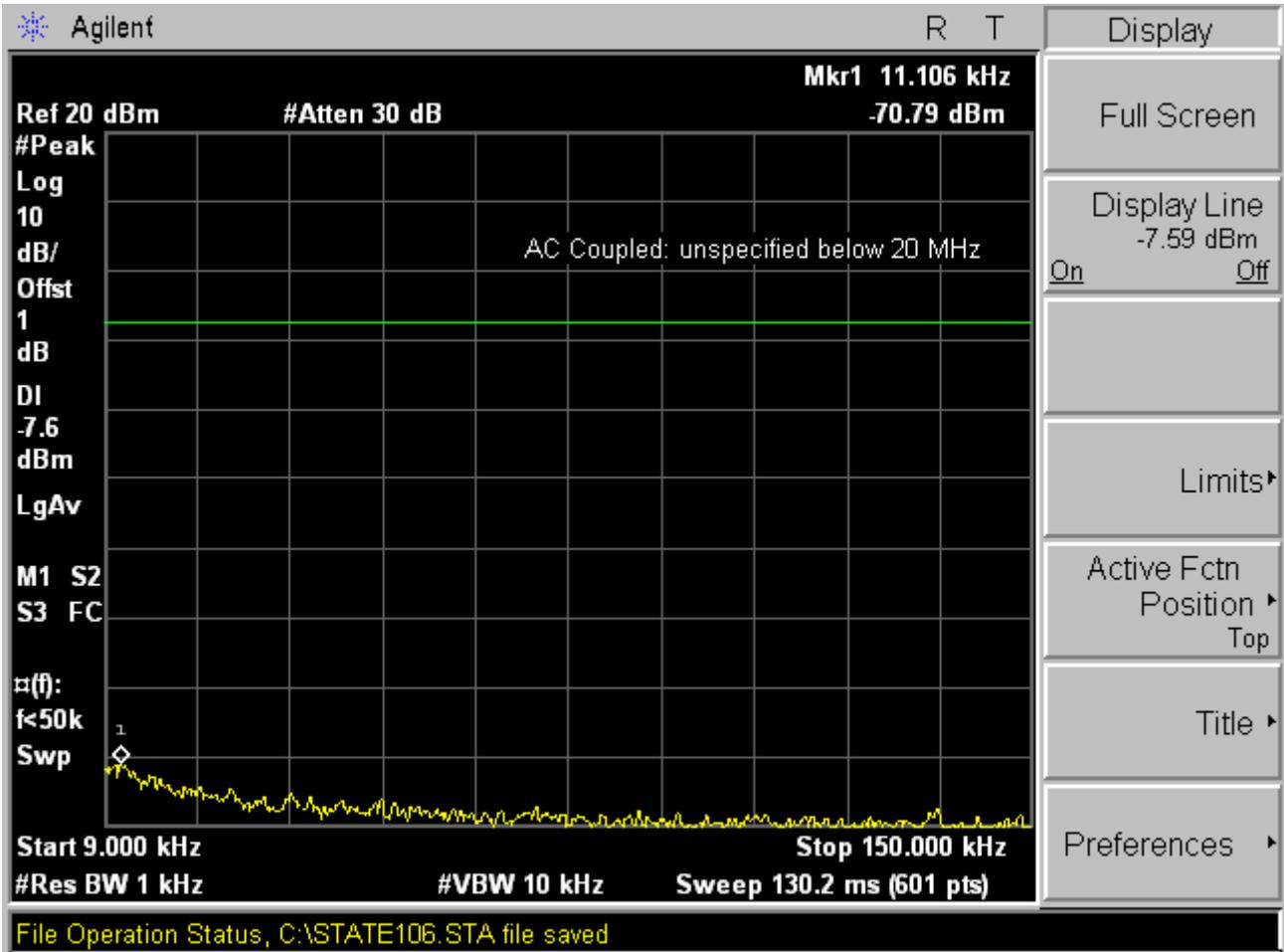


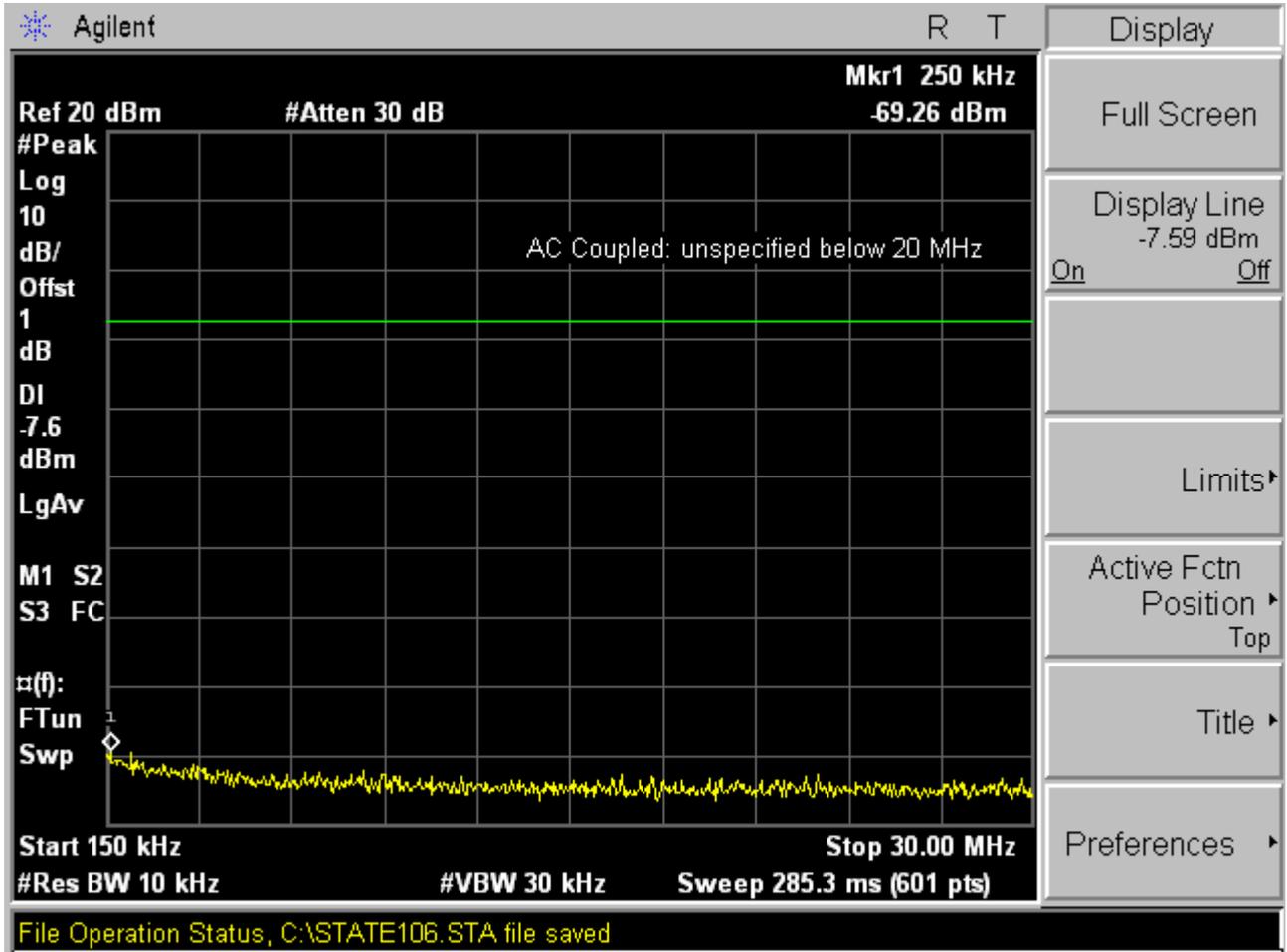


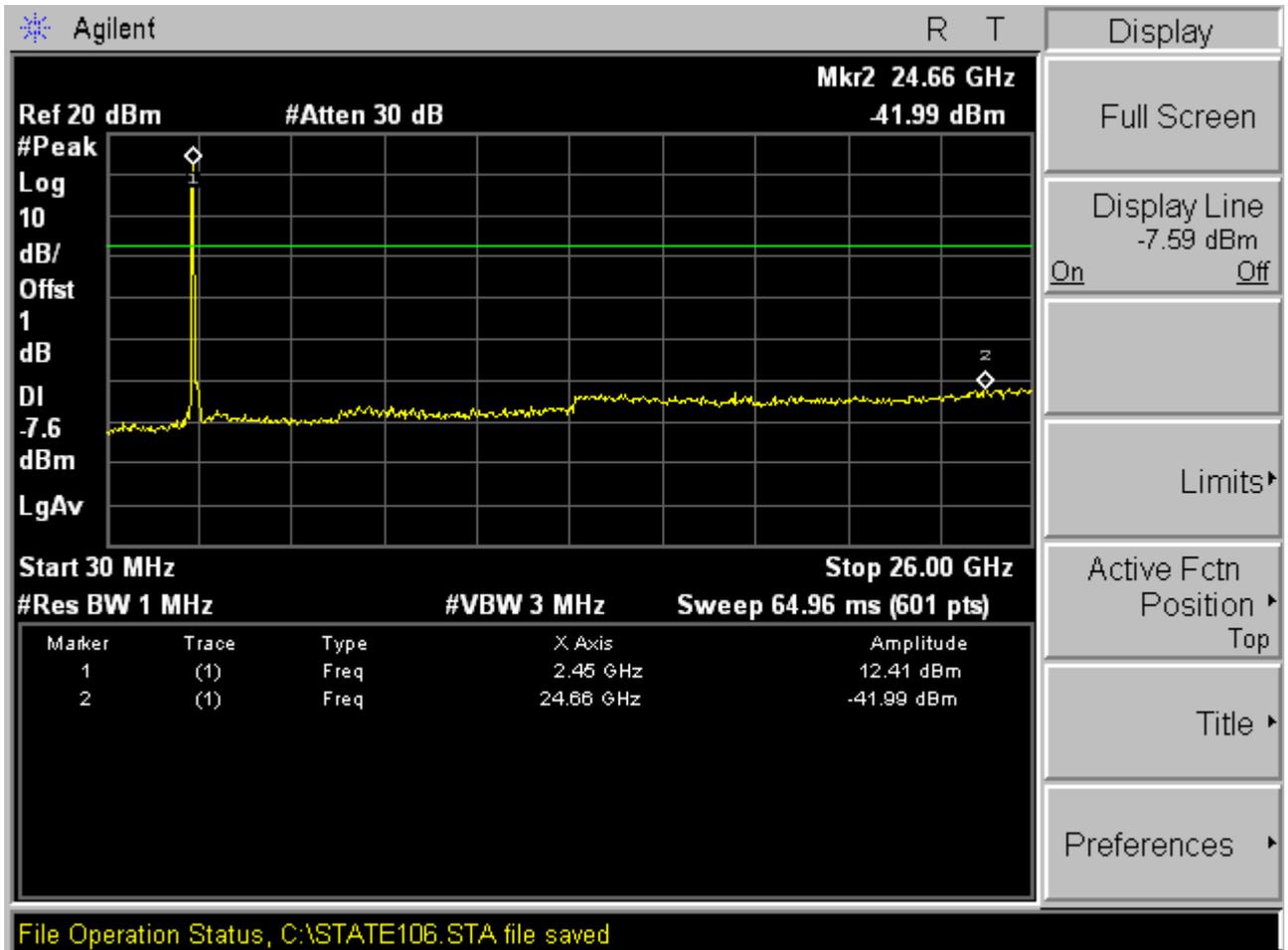




Channel 6

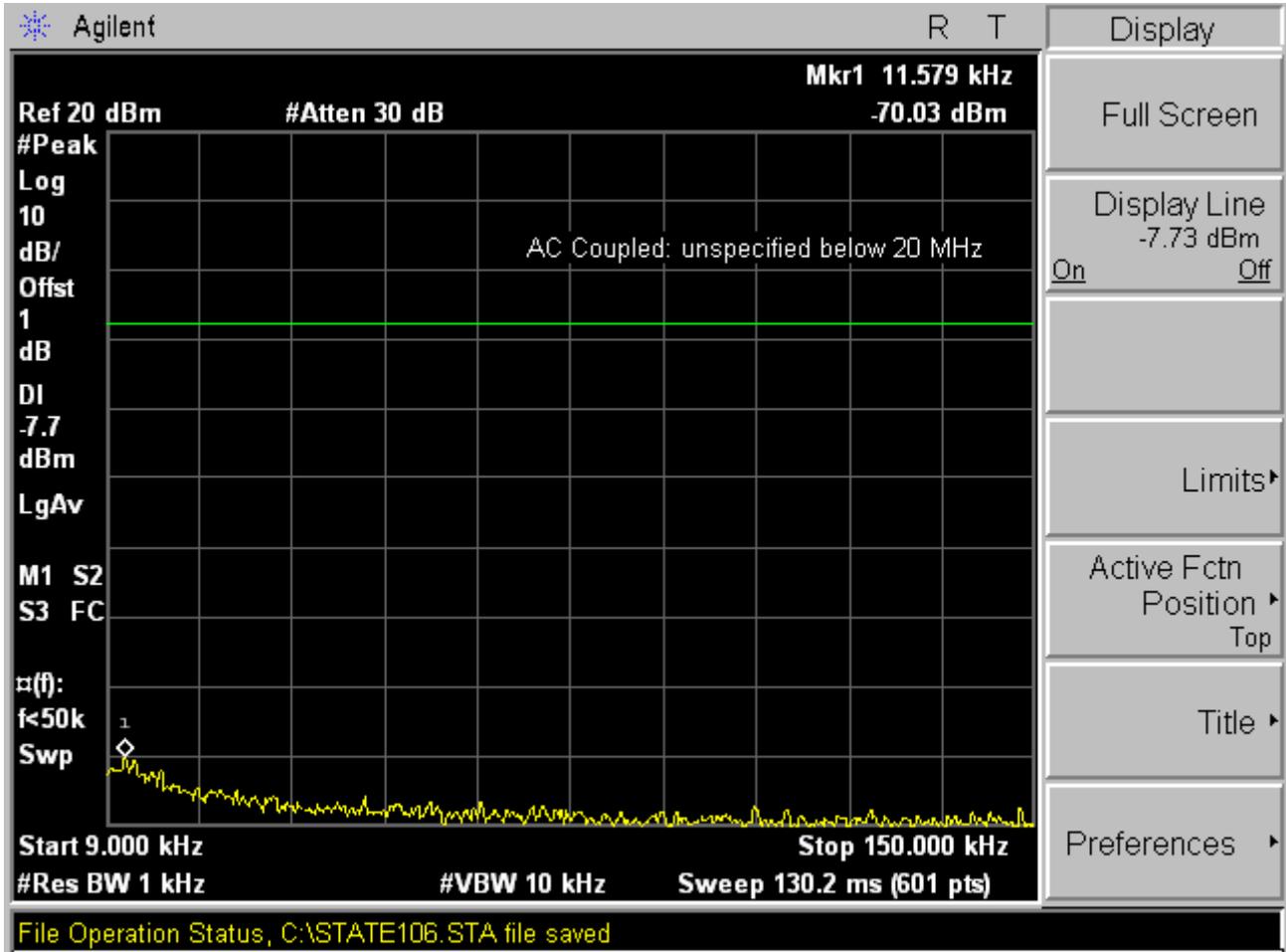


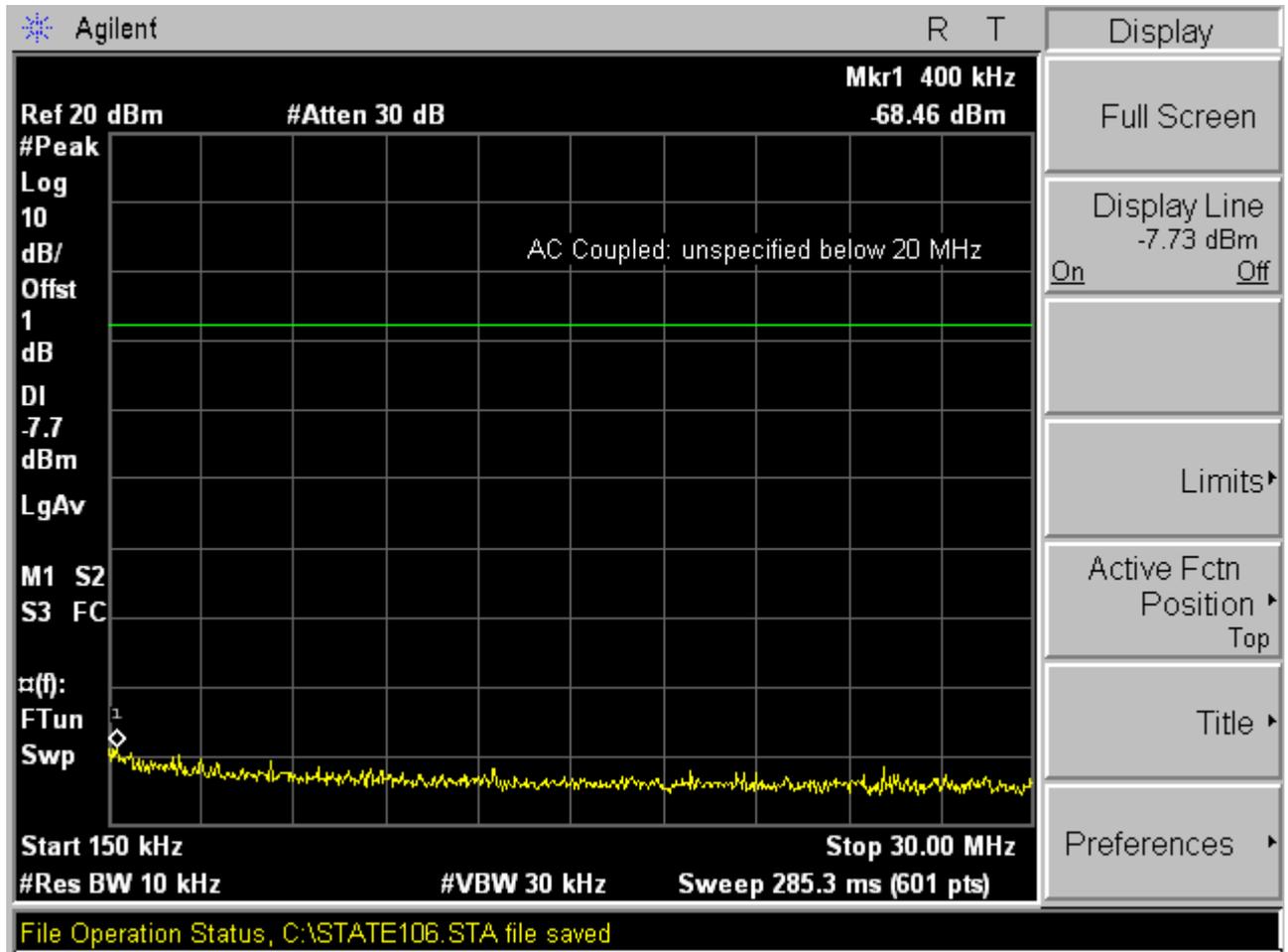


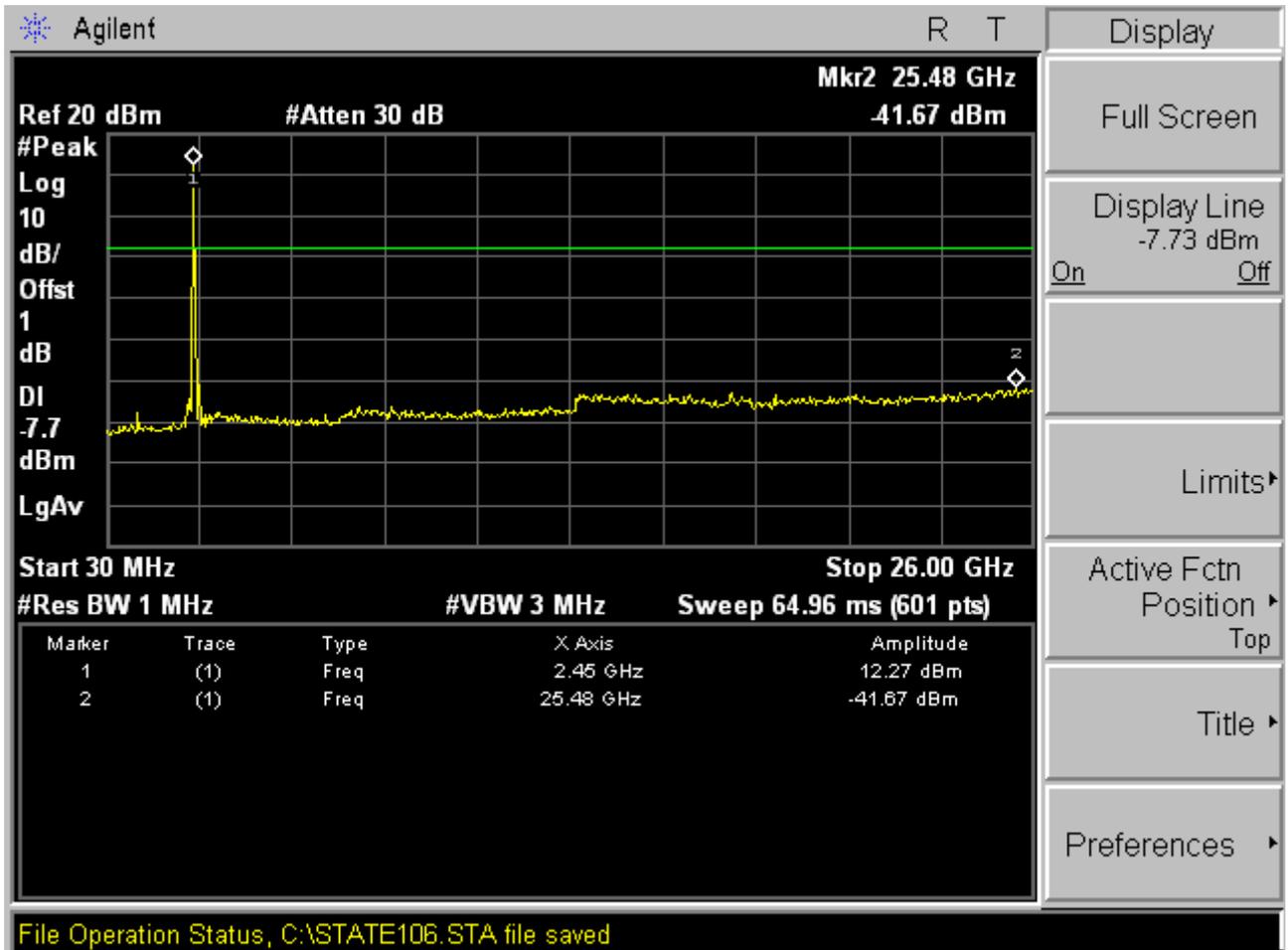




Channel 11

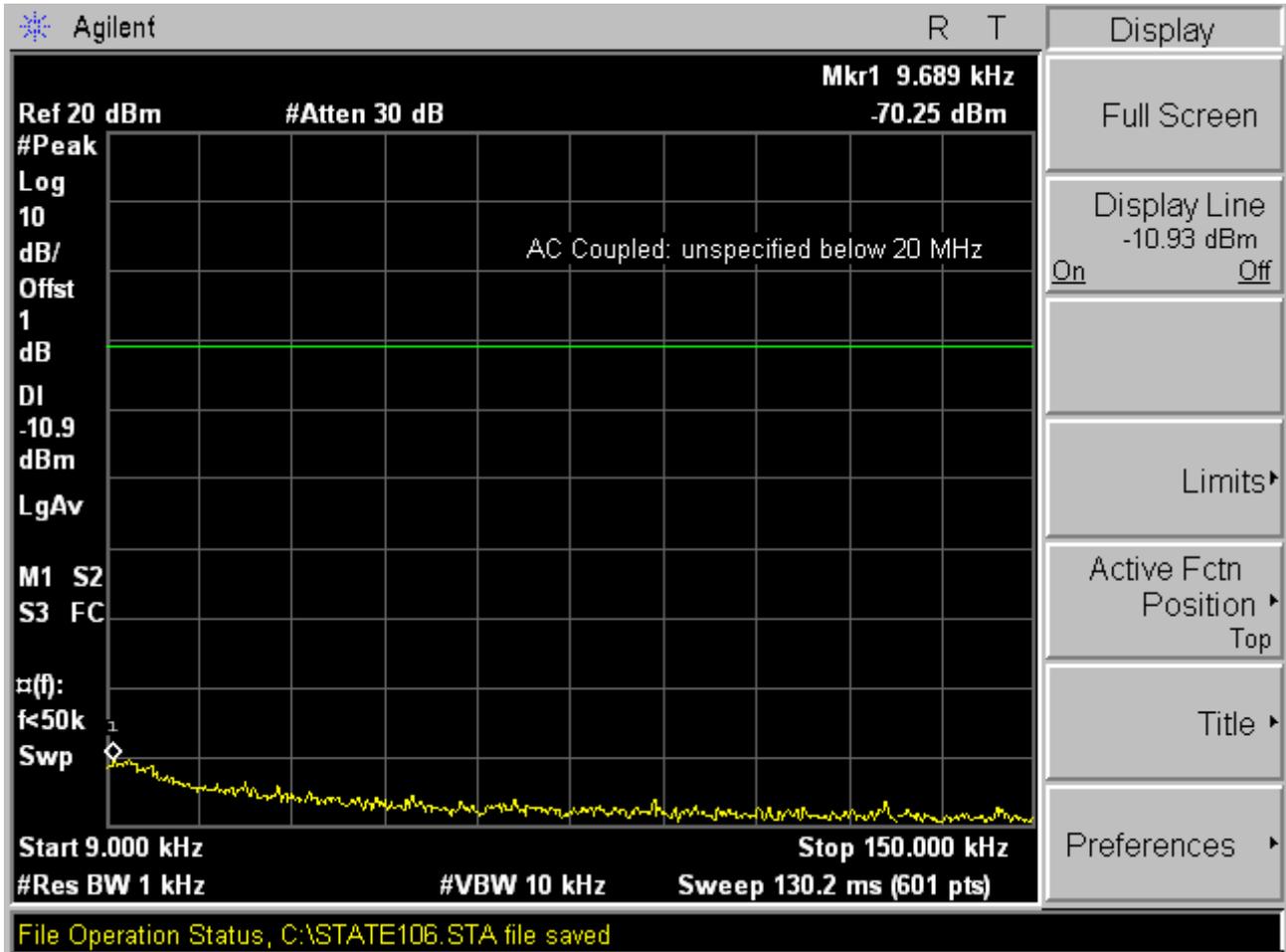


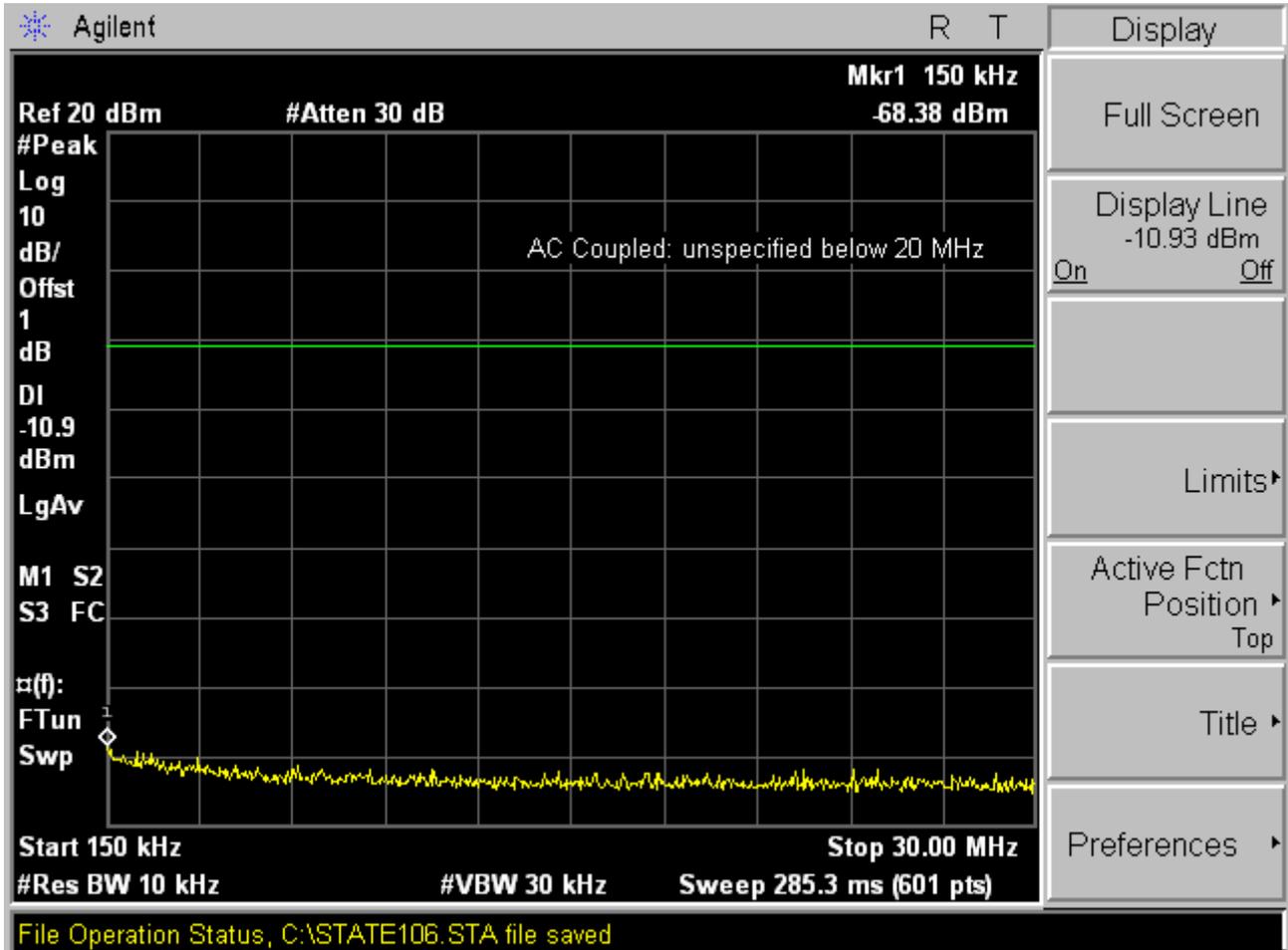


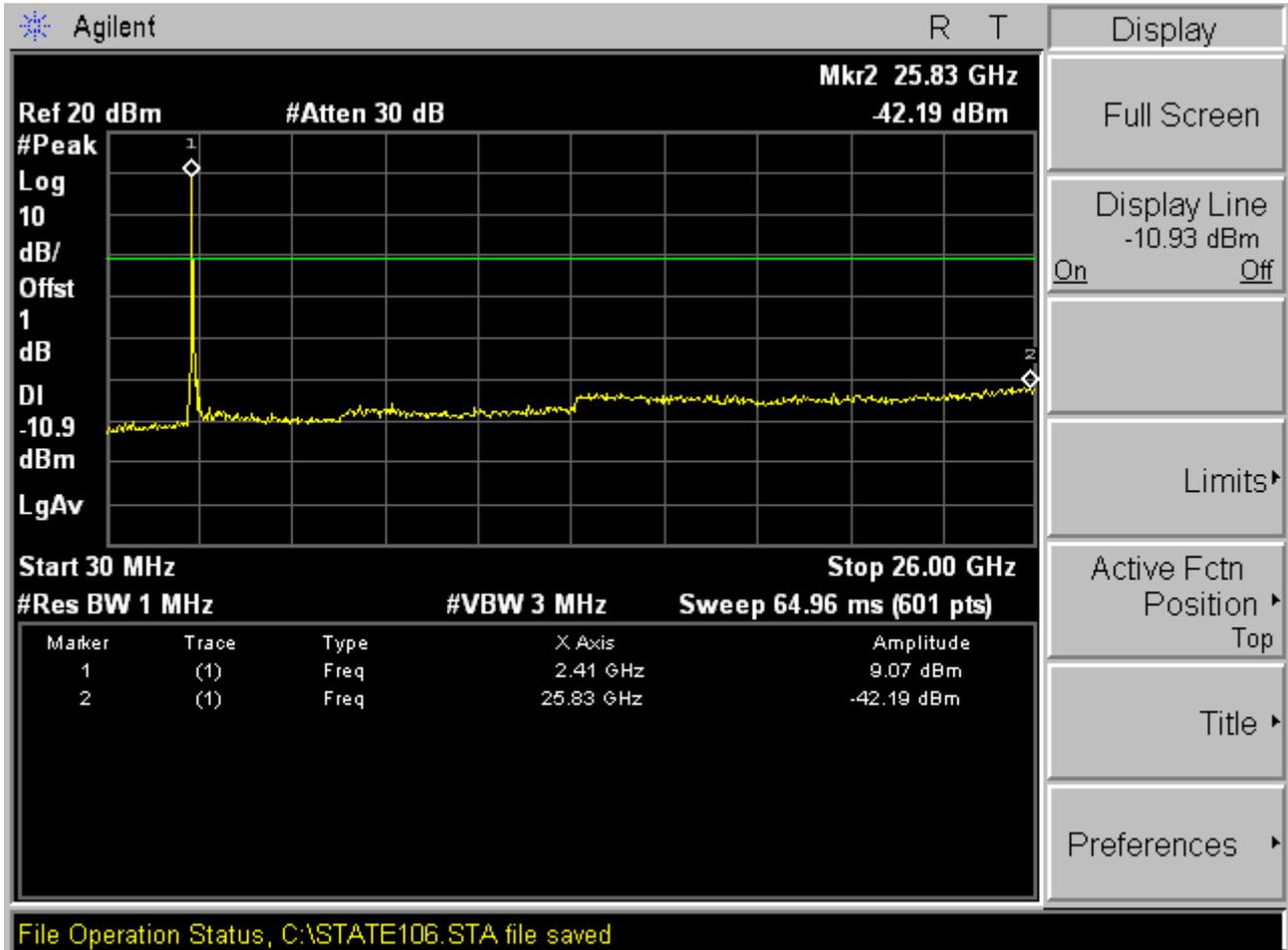




TM2 Channel 1

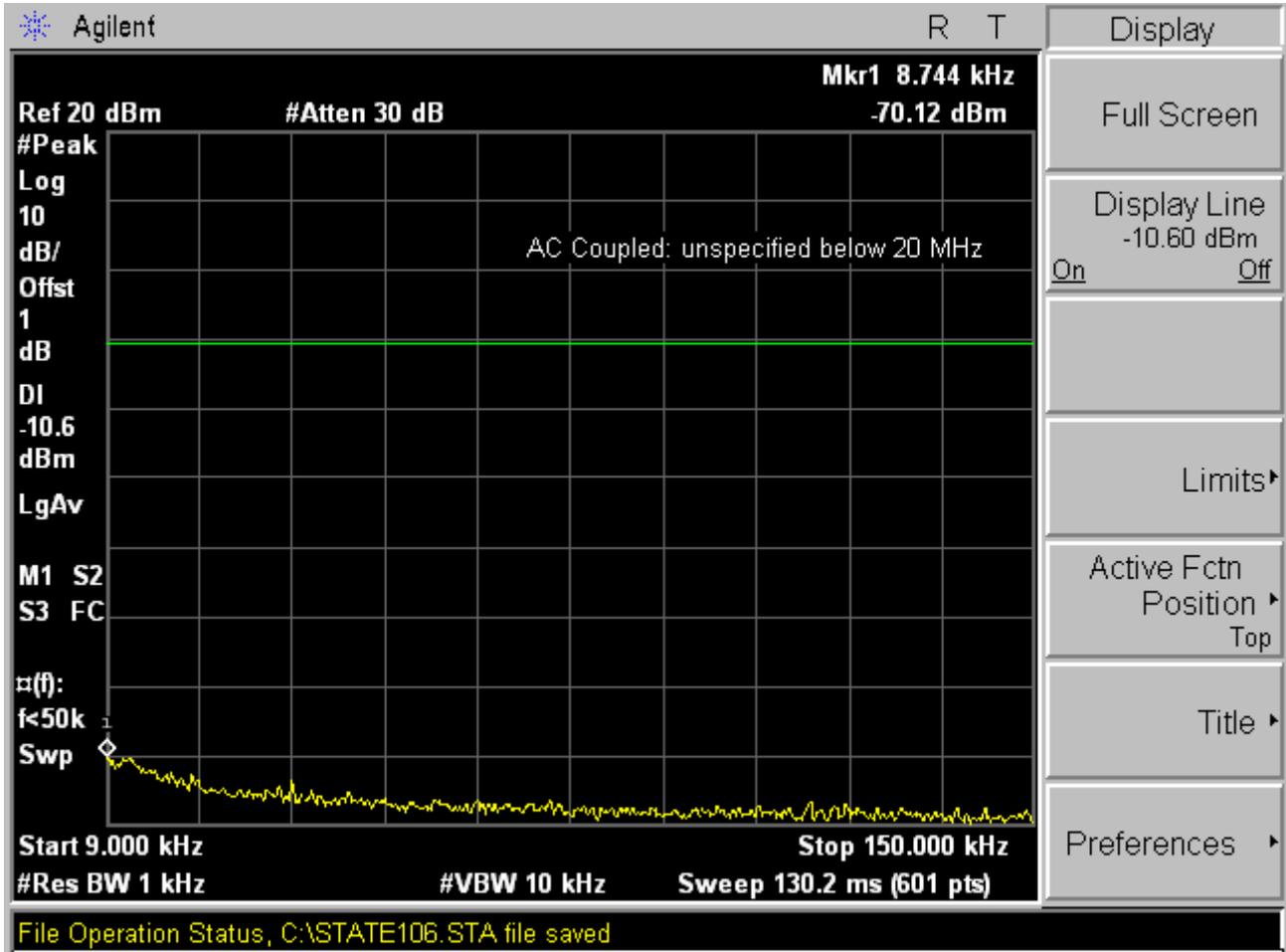


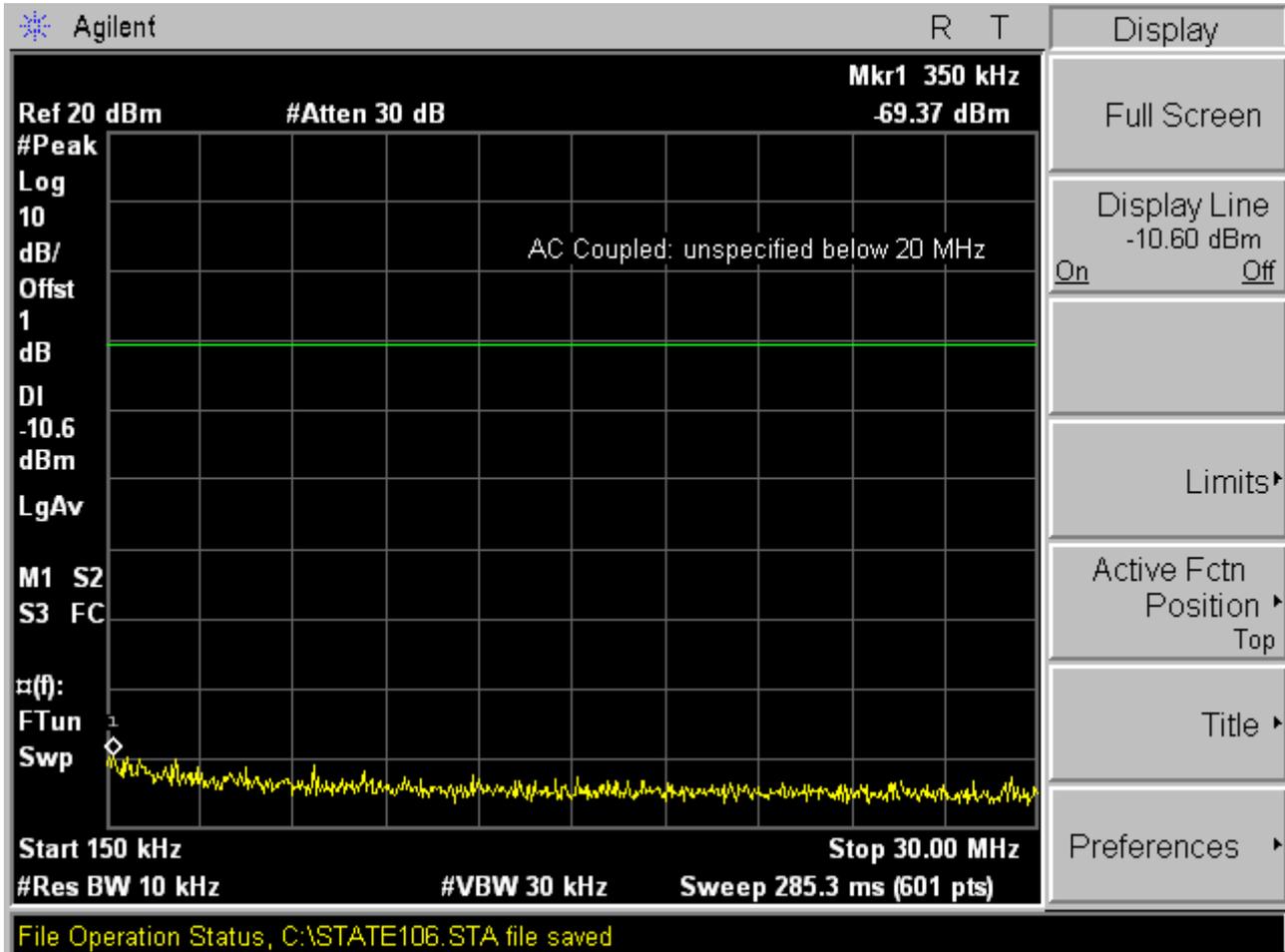


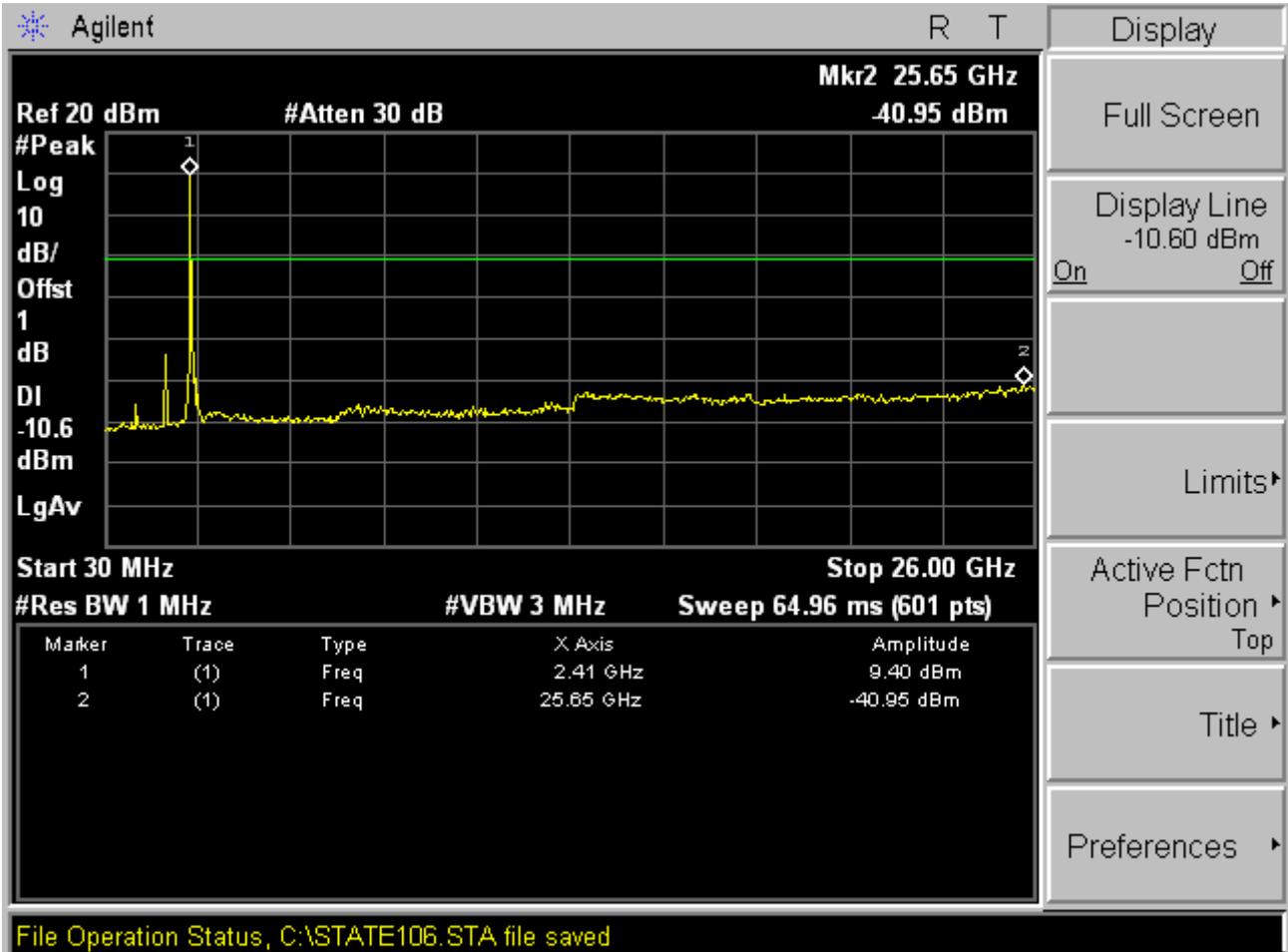




Channel 6

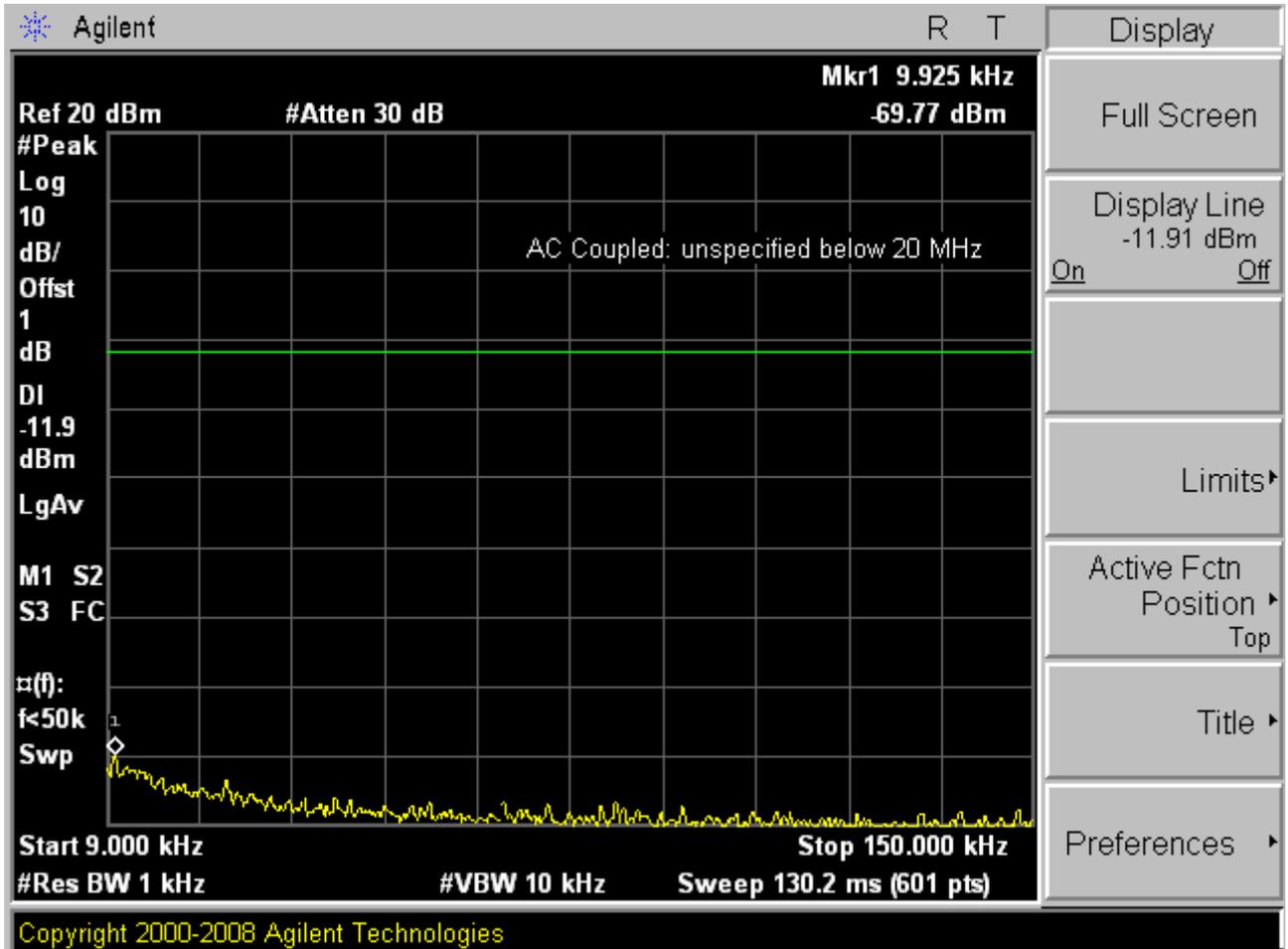


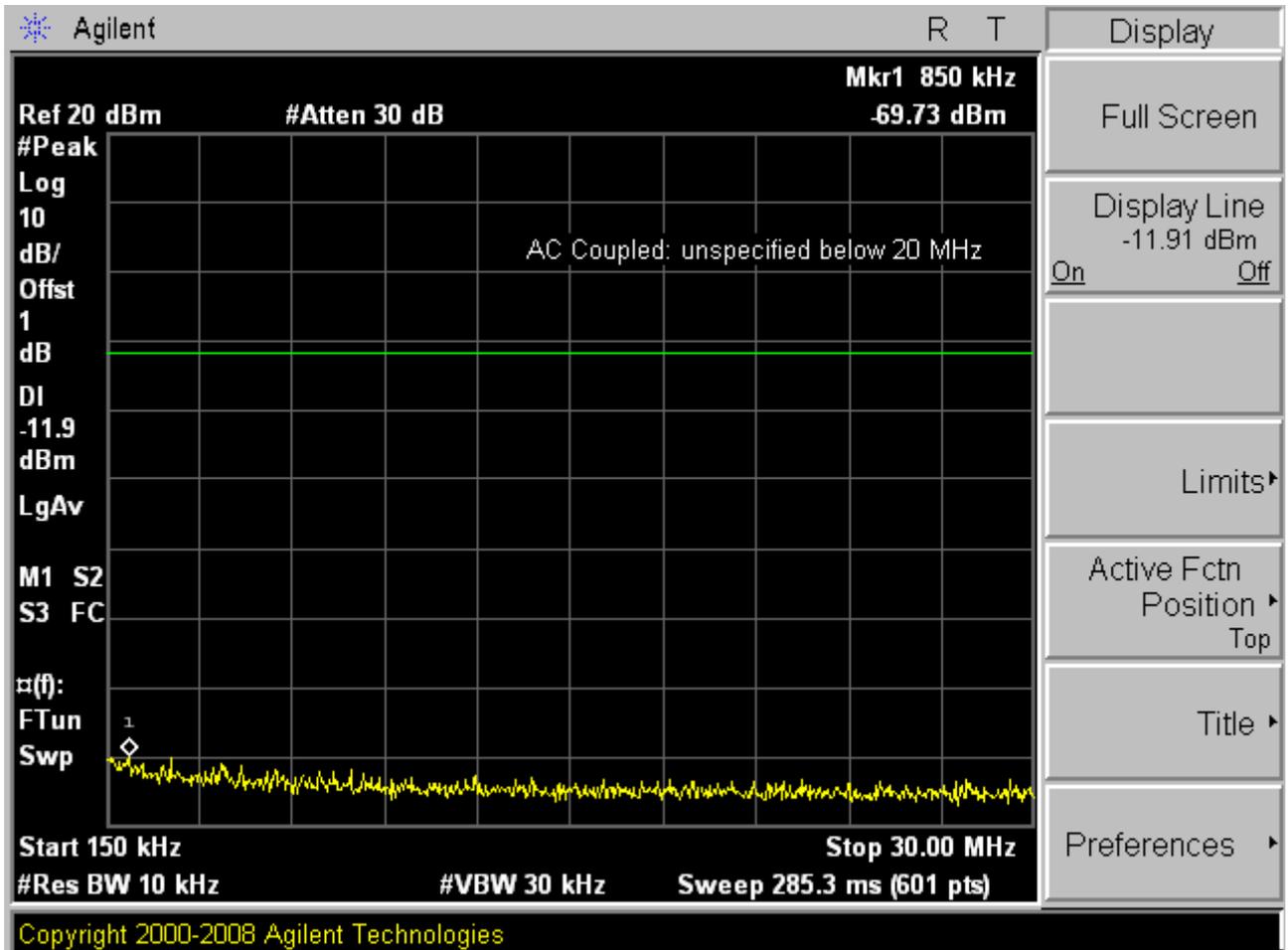


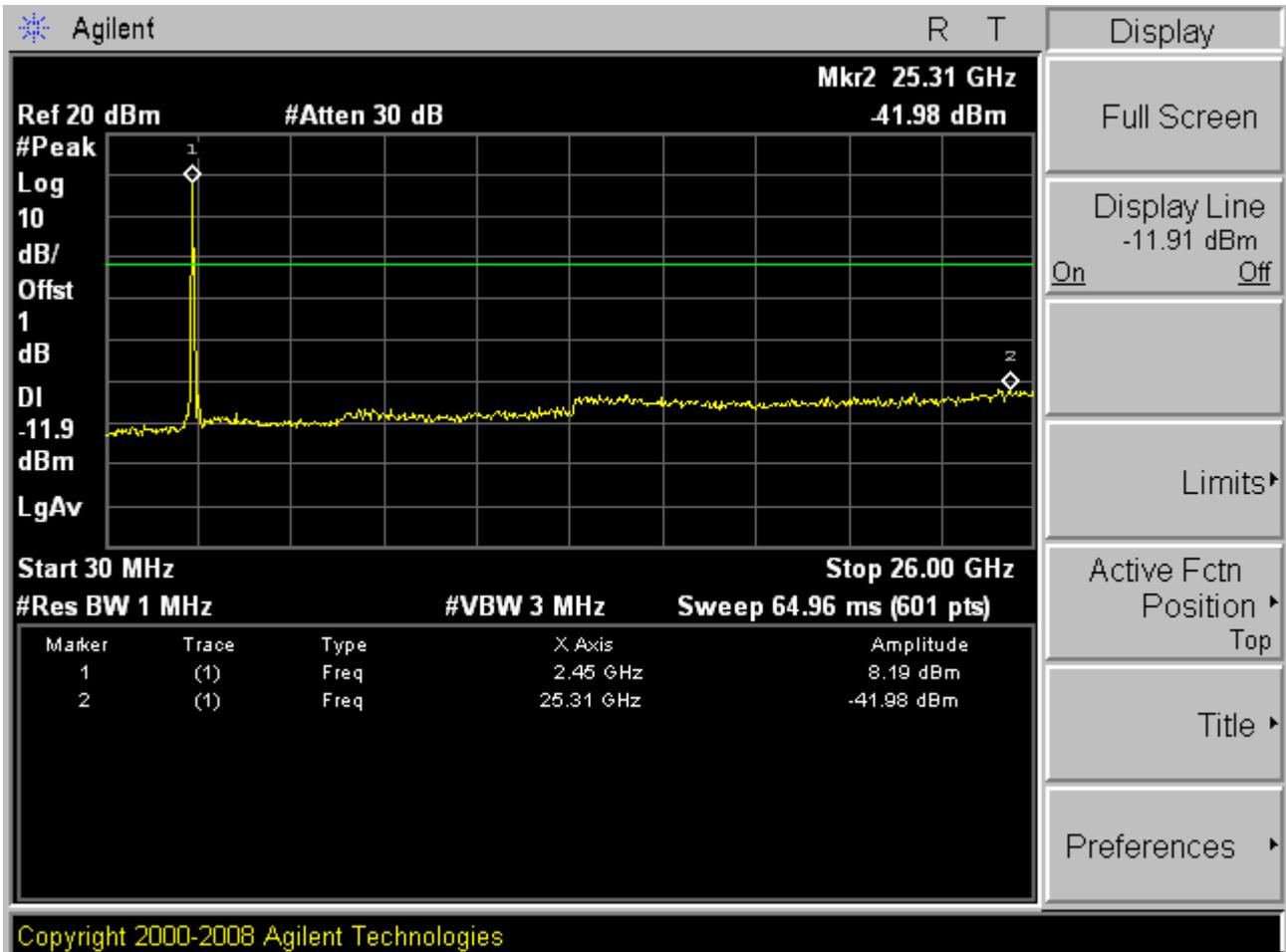




Channel 11

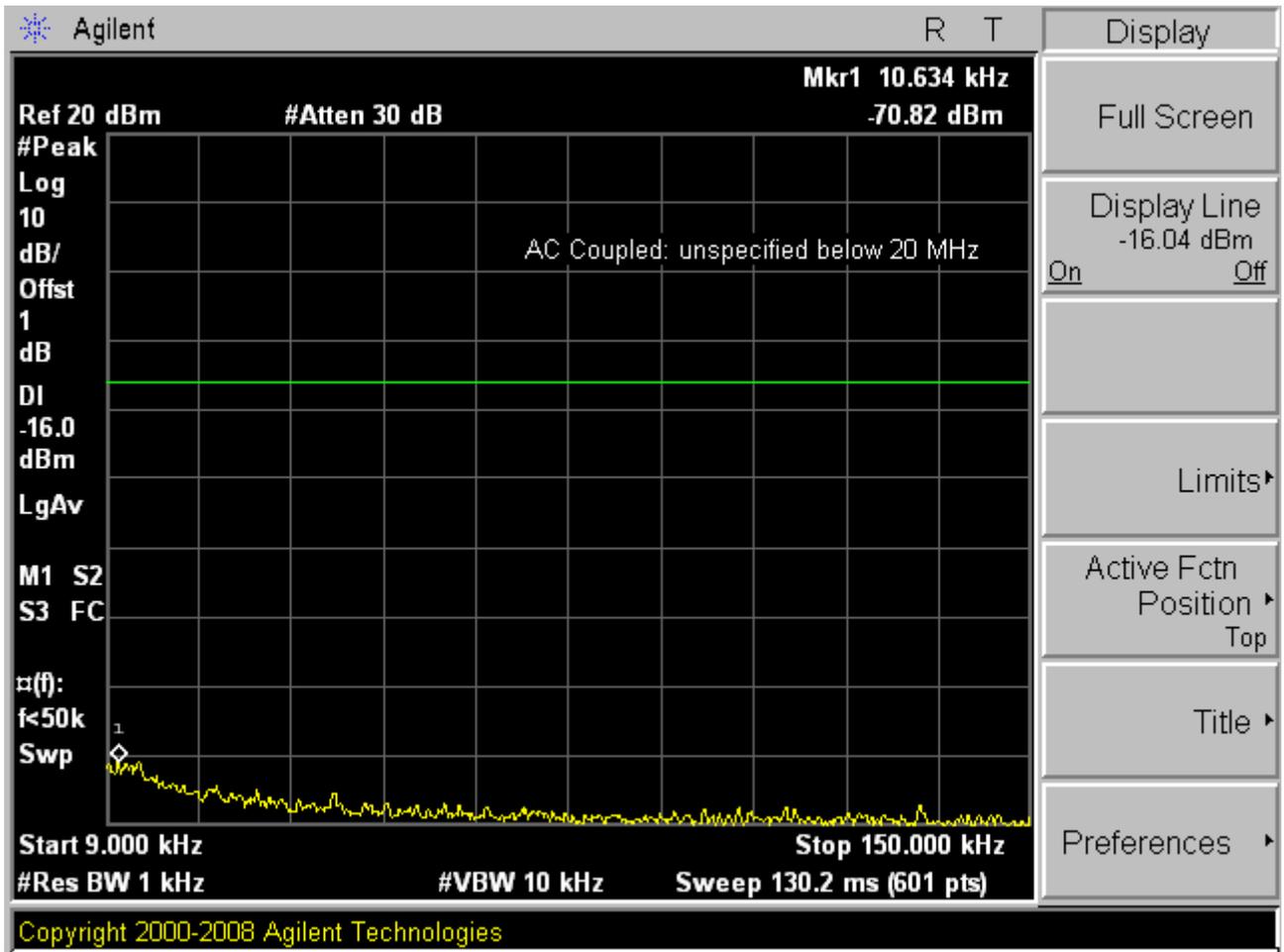


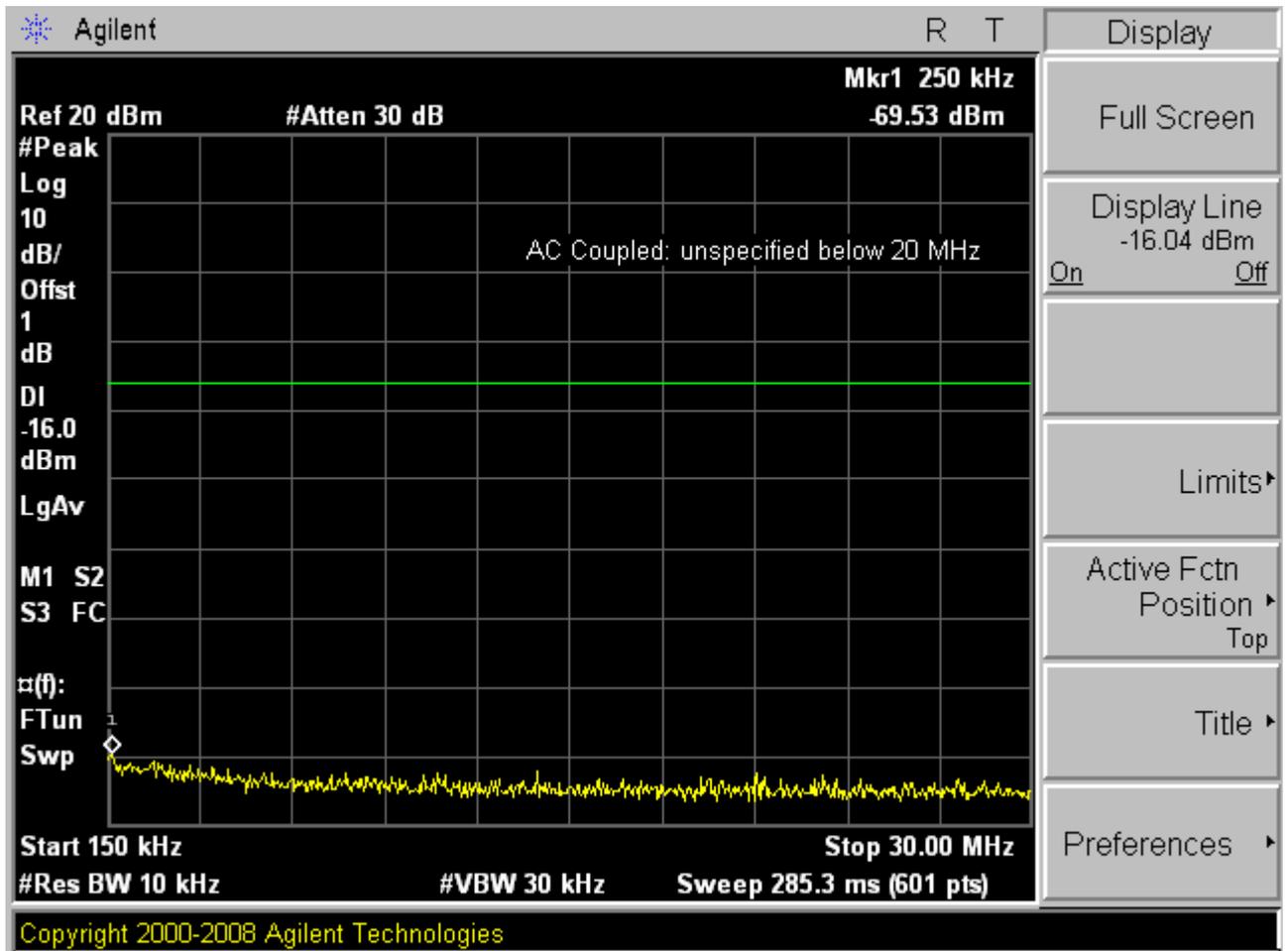


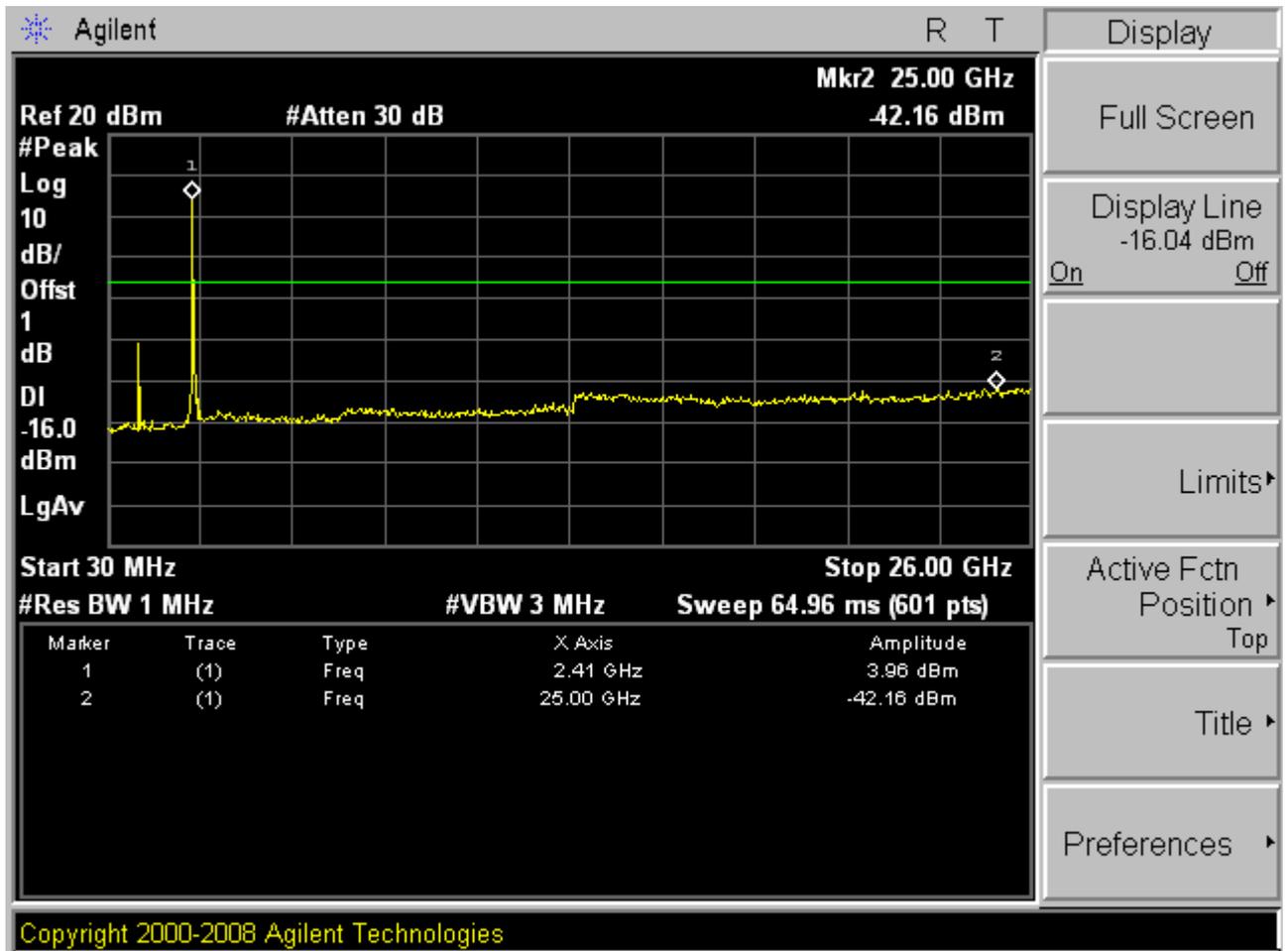




TM3 Channel 1

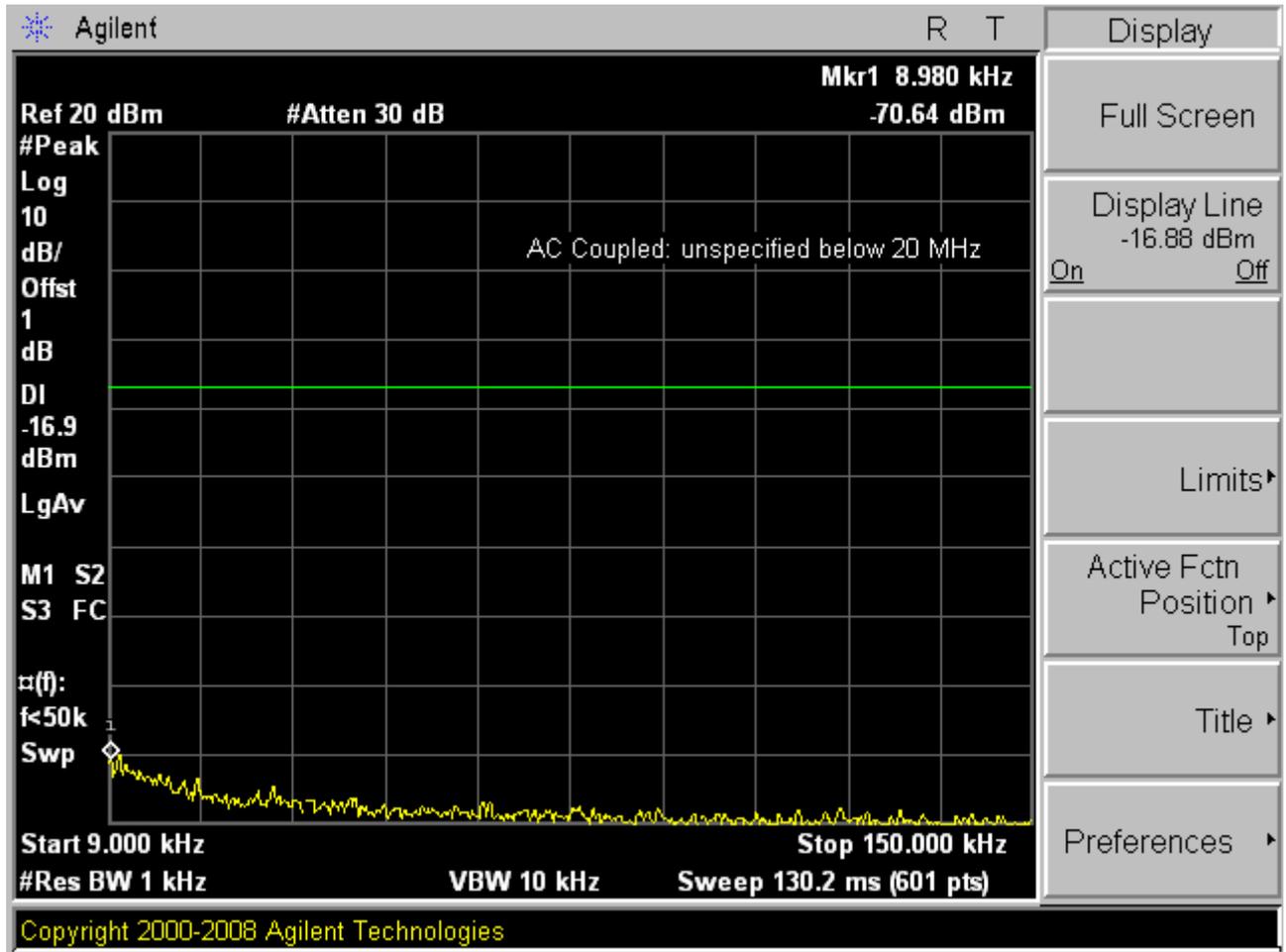


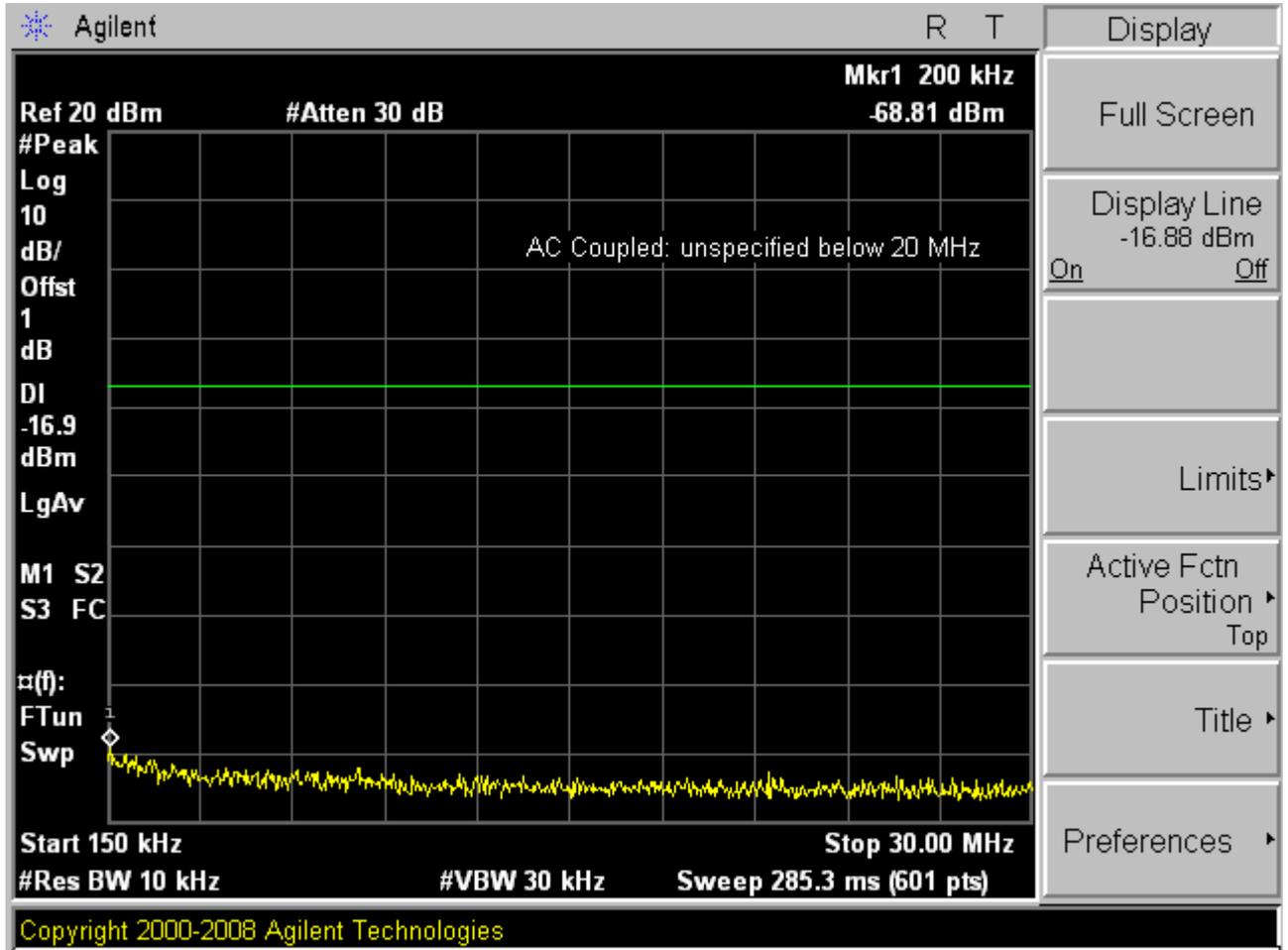


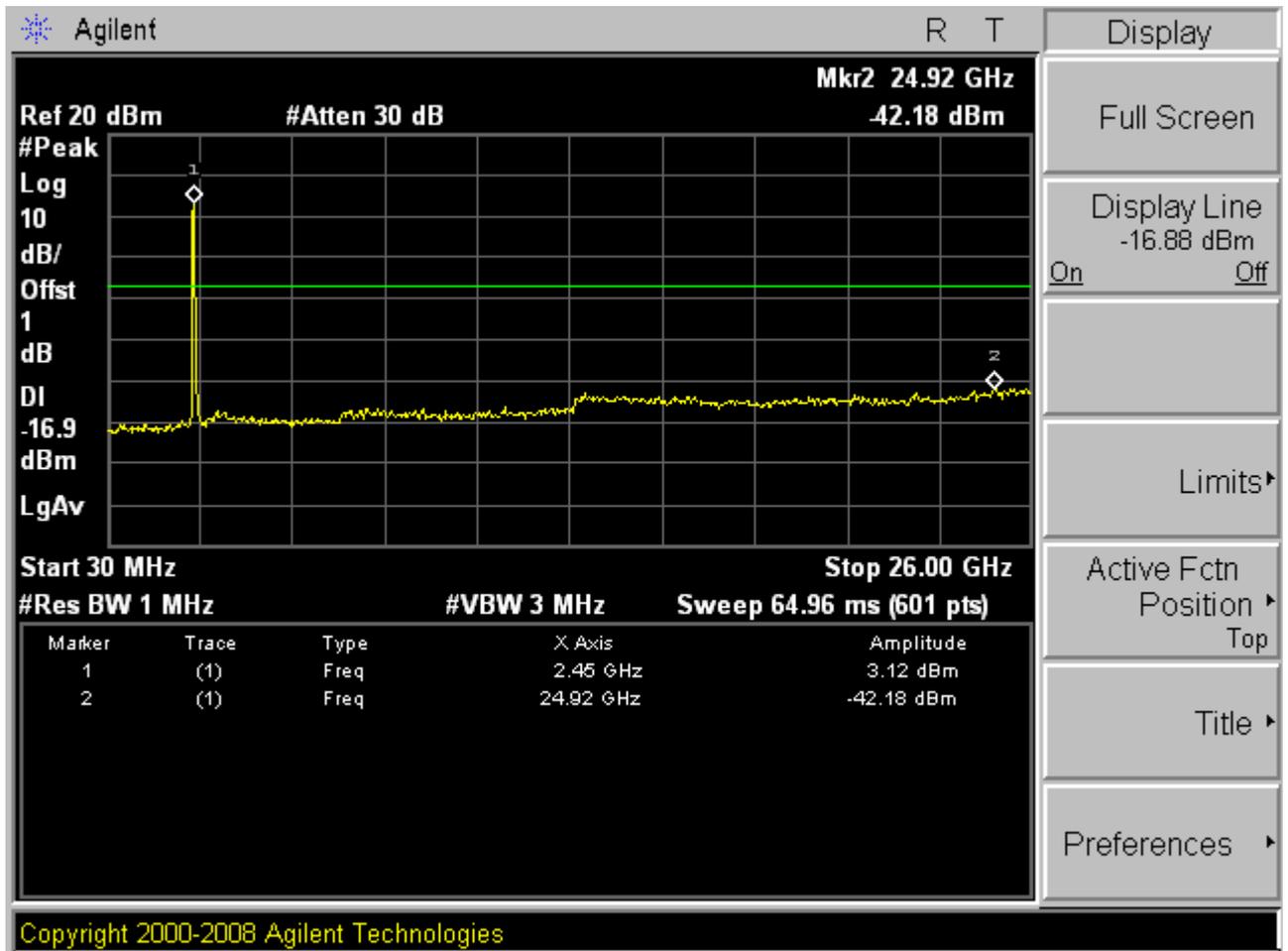


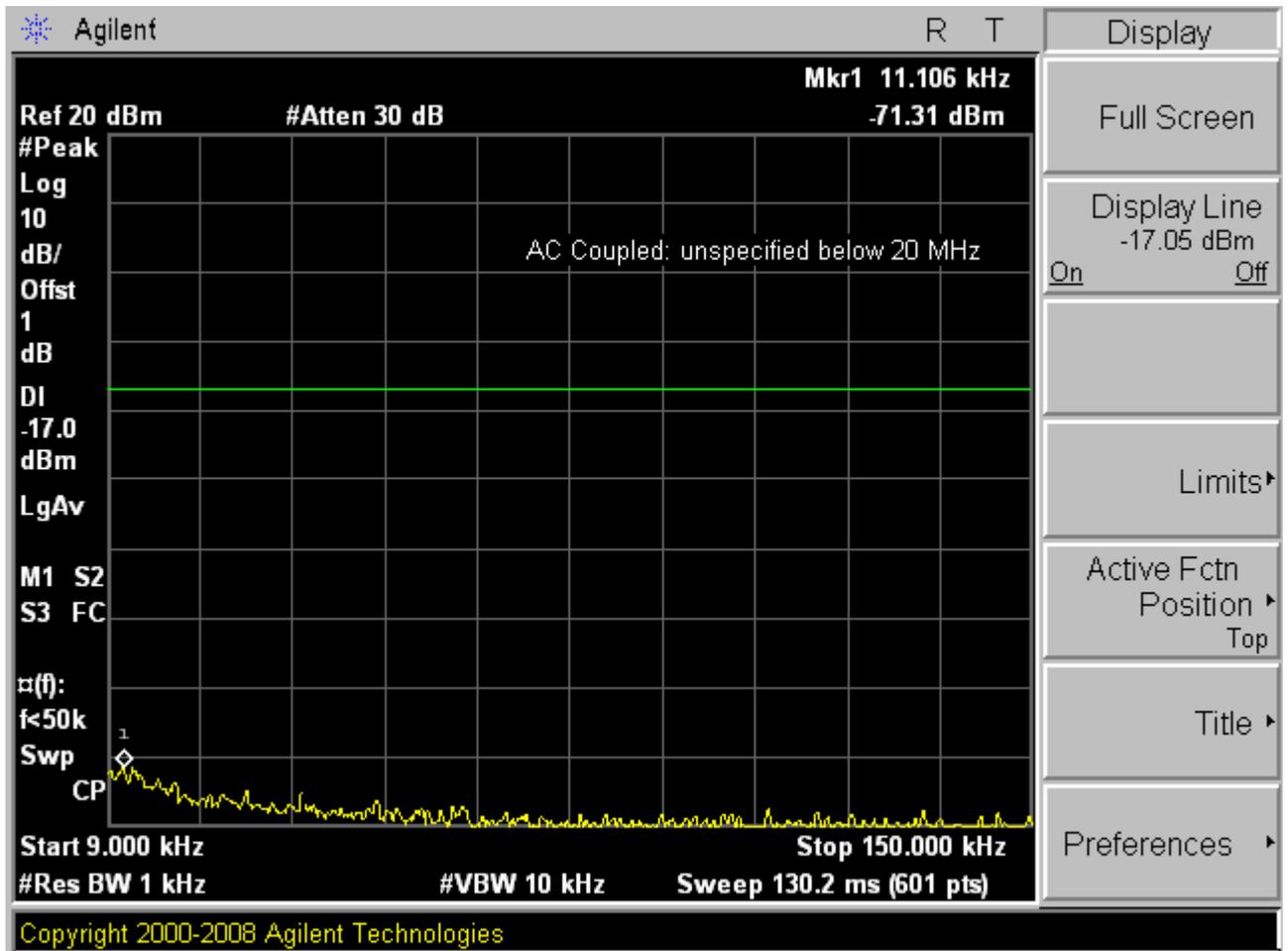


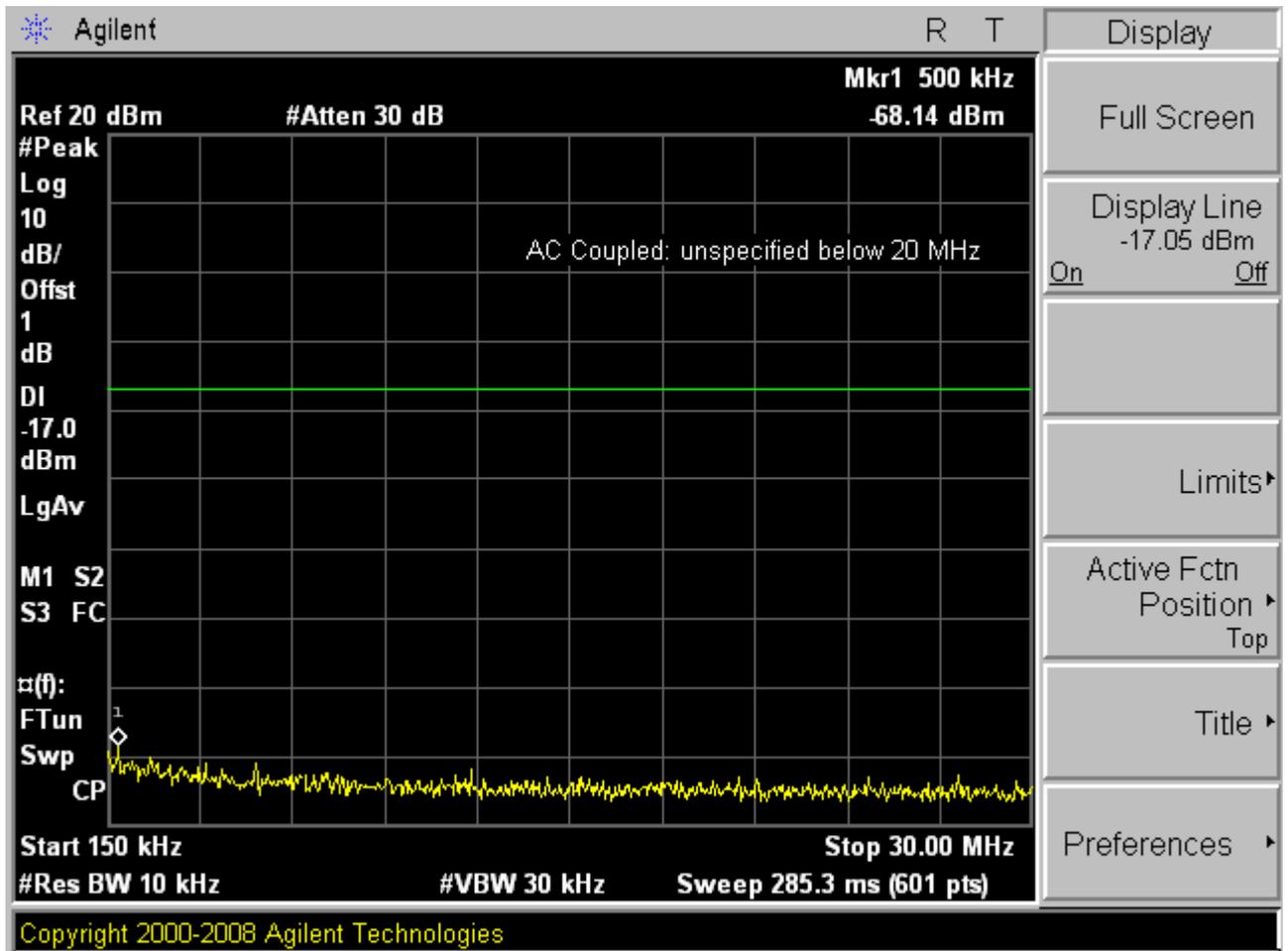
Channel 6

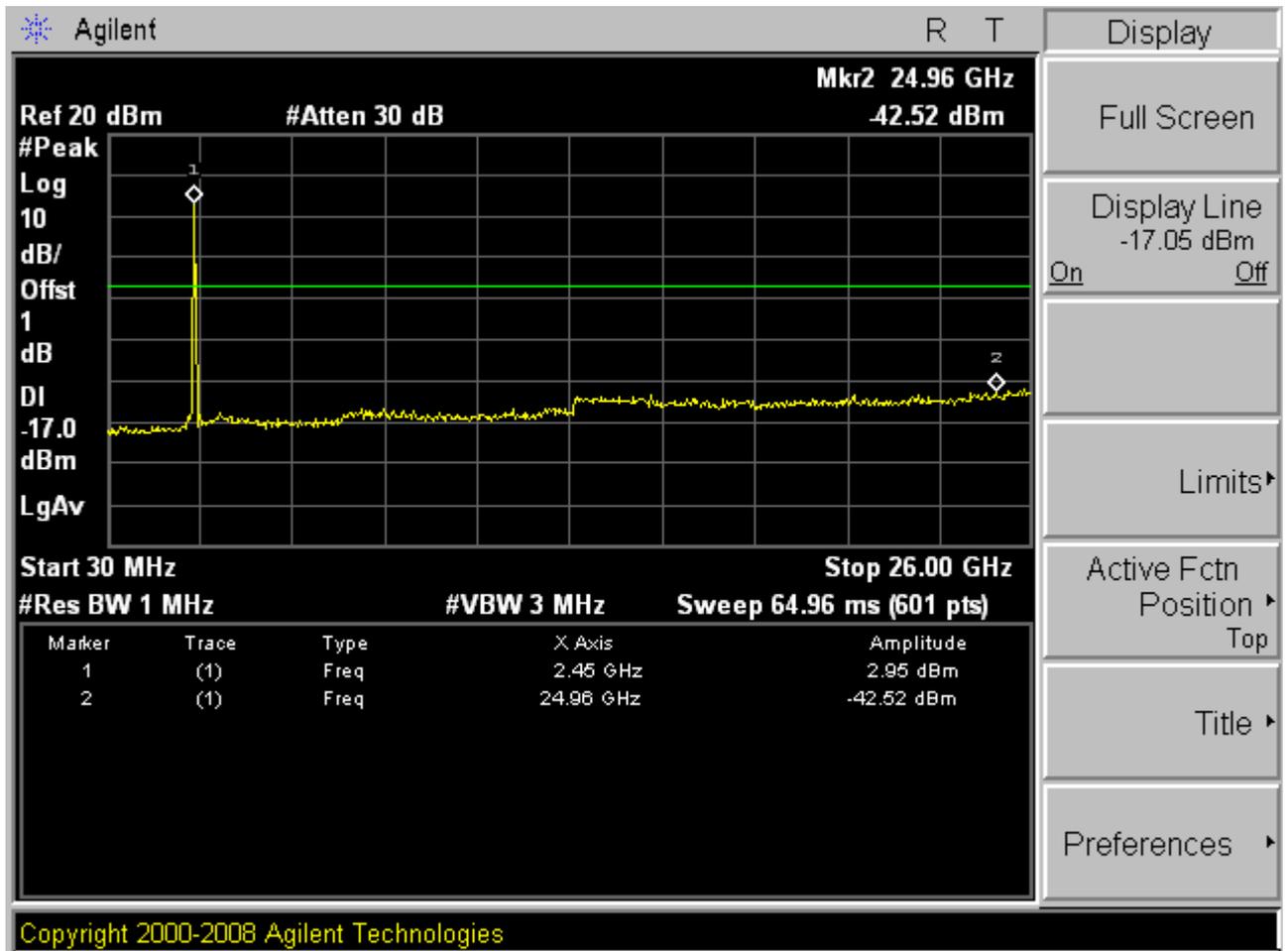














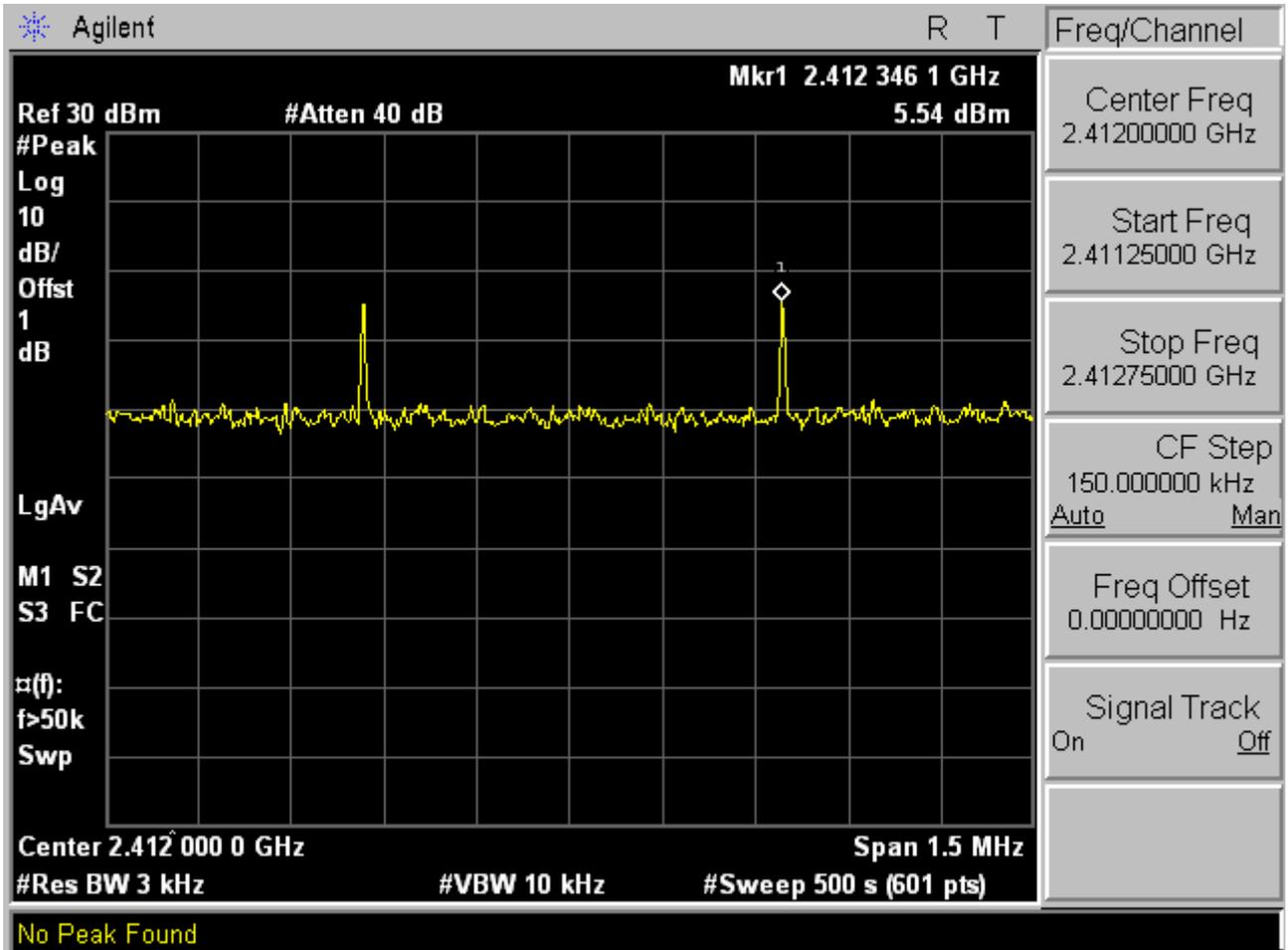
Appendix E

Power spectral density

According to FCC Part 15.247 (e)

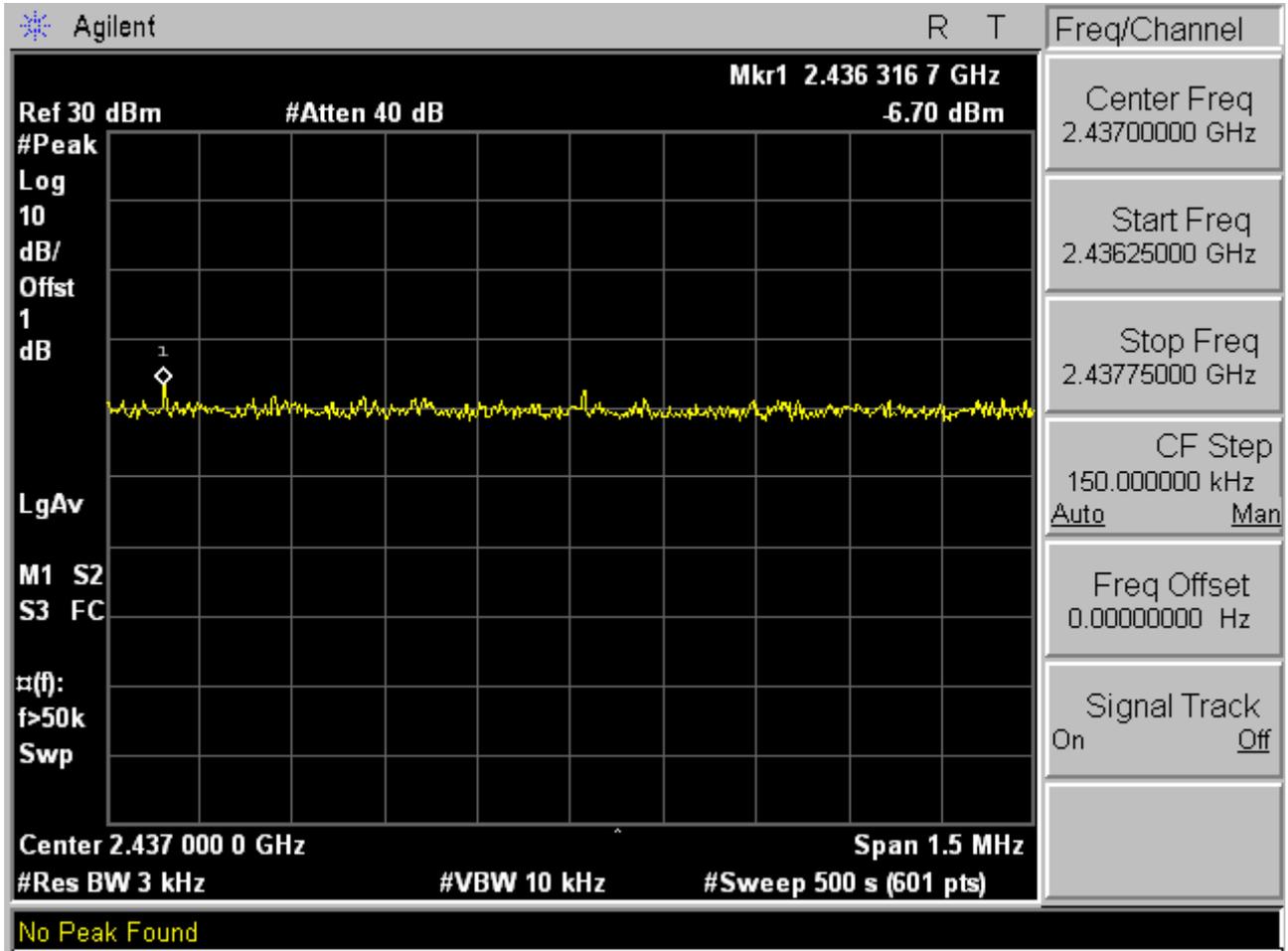


TM1 Channel 1



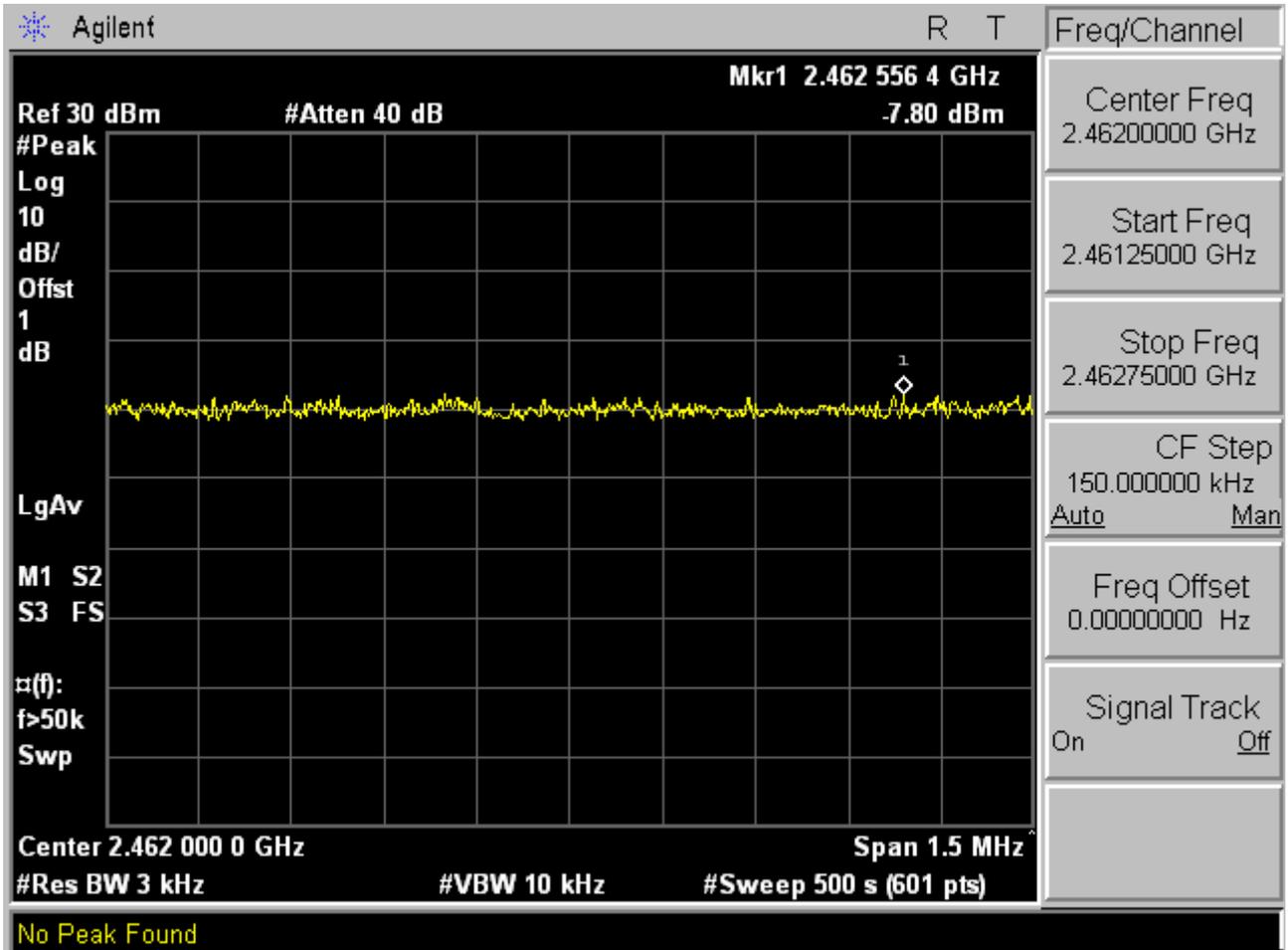


Channel 6



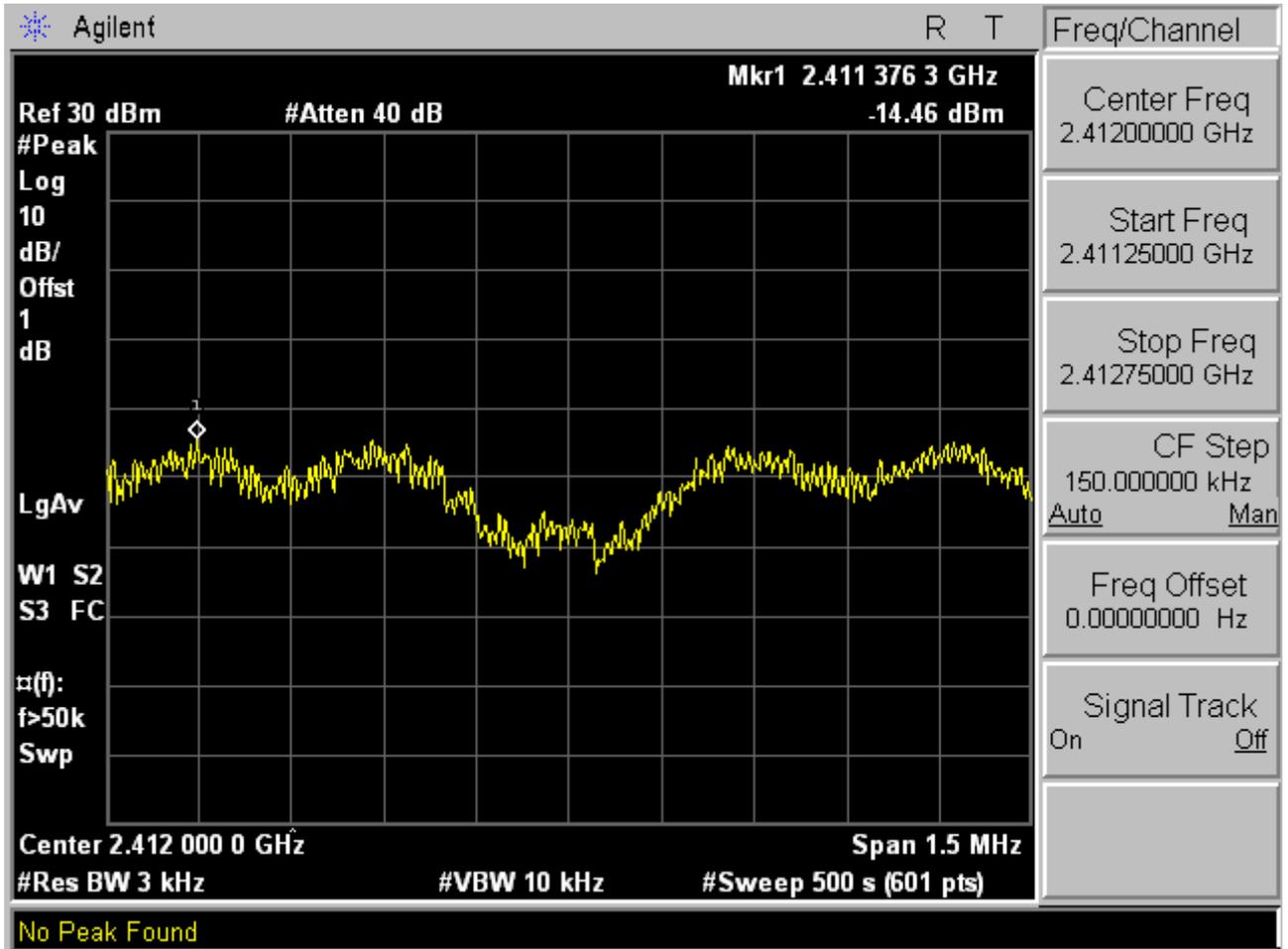


Channel 11



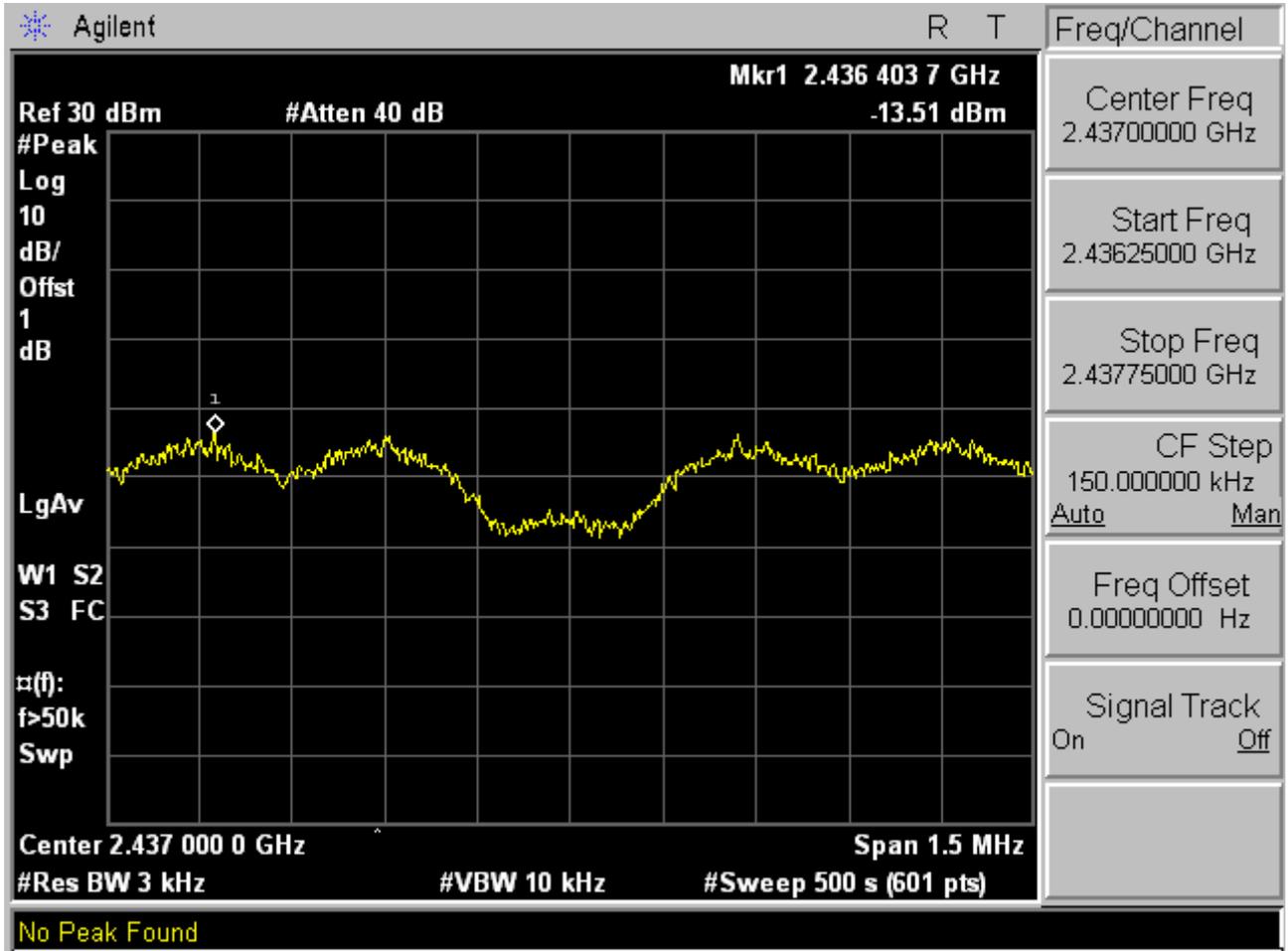


TM2 Channel 1



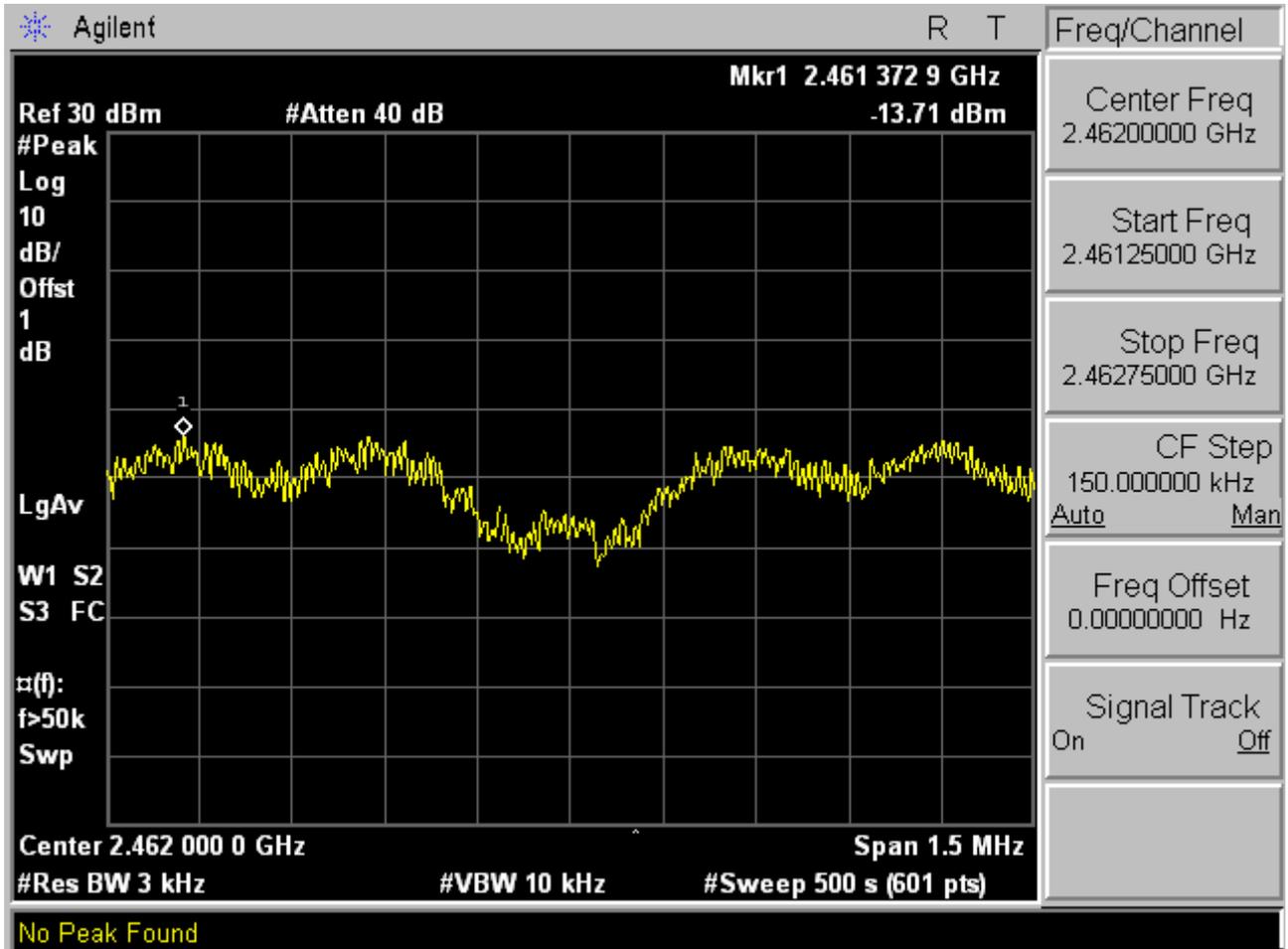


Channel 6



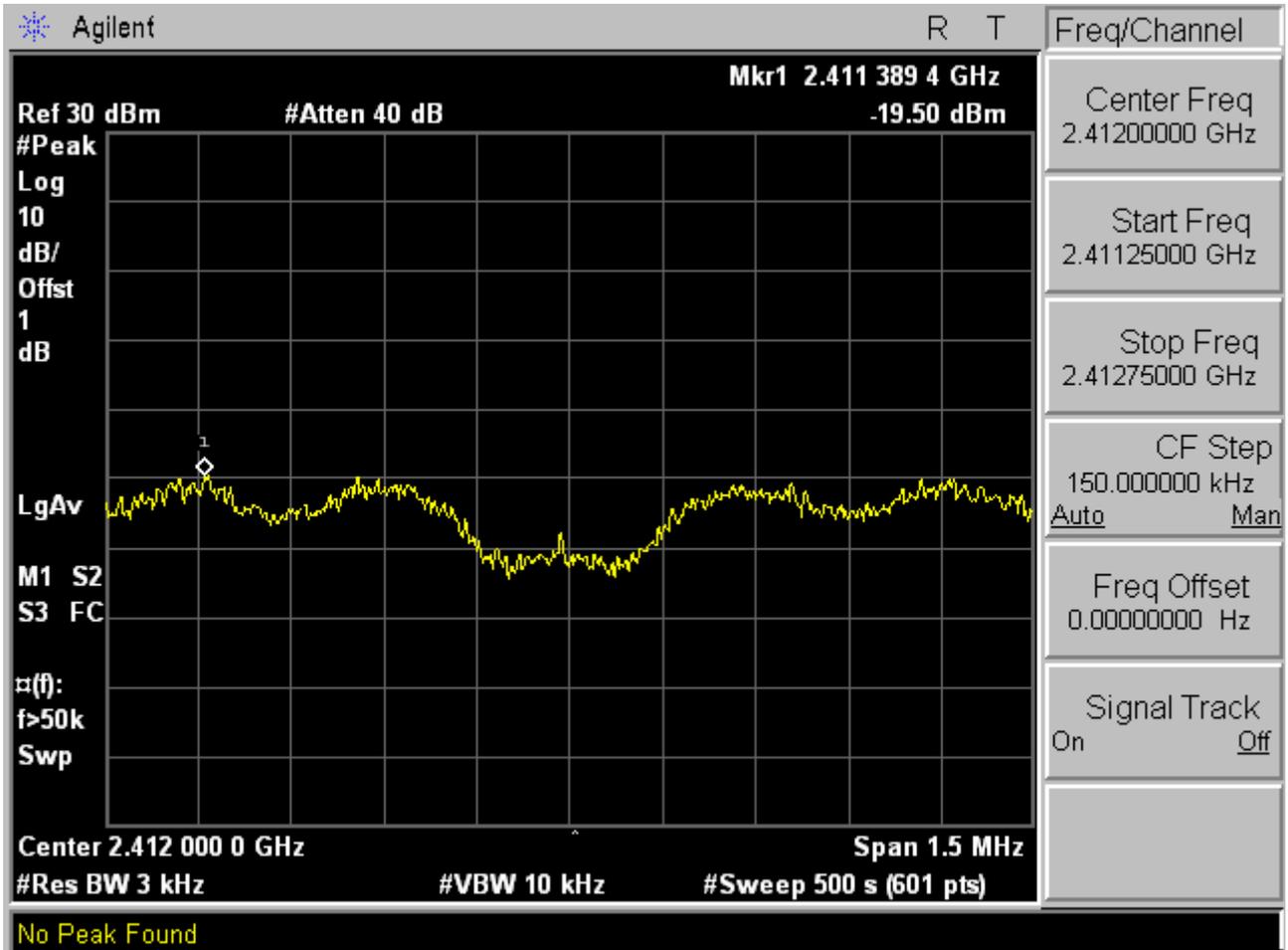


Channel 11



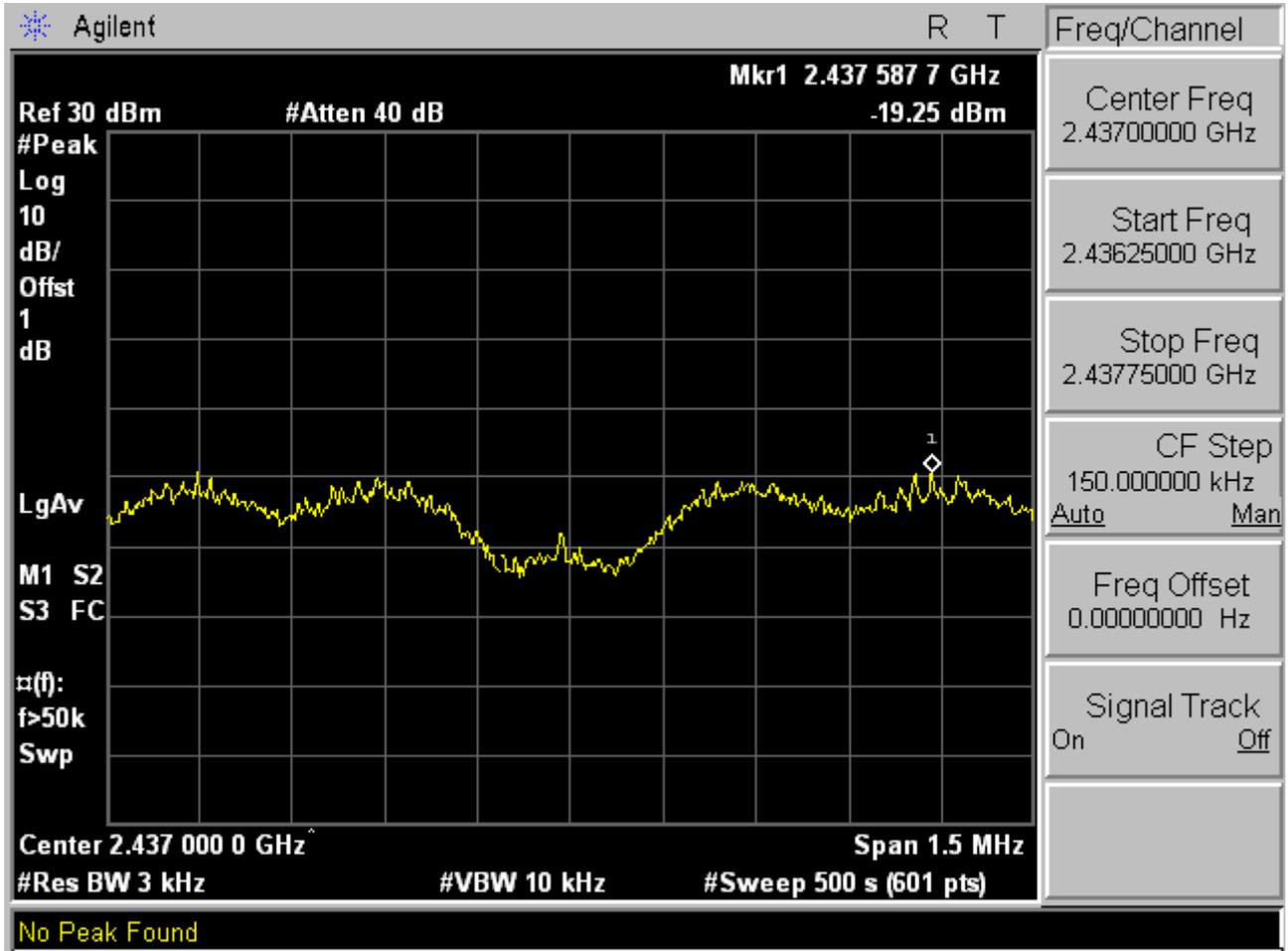


TM3 Channel 1



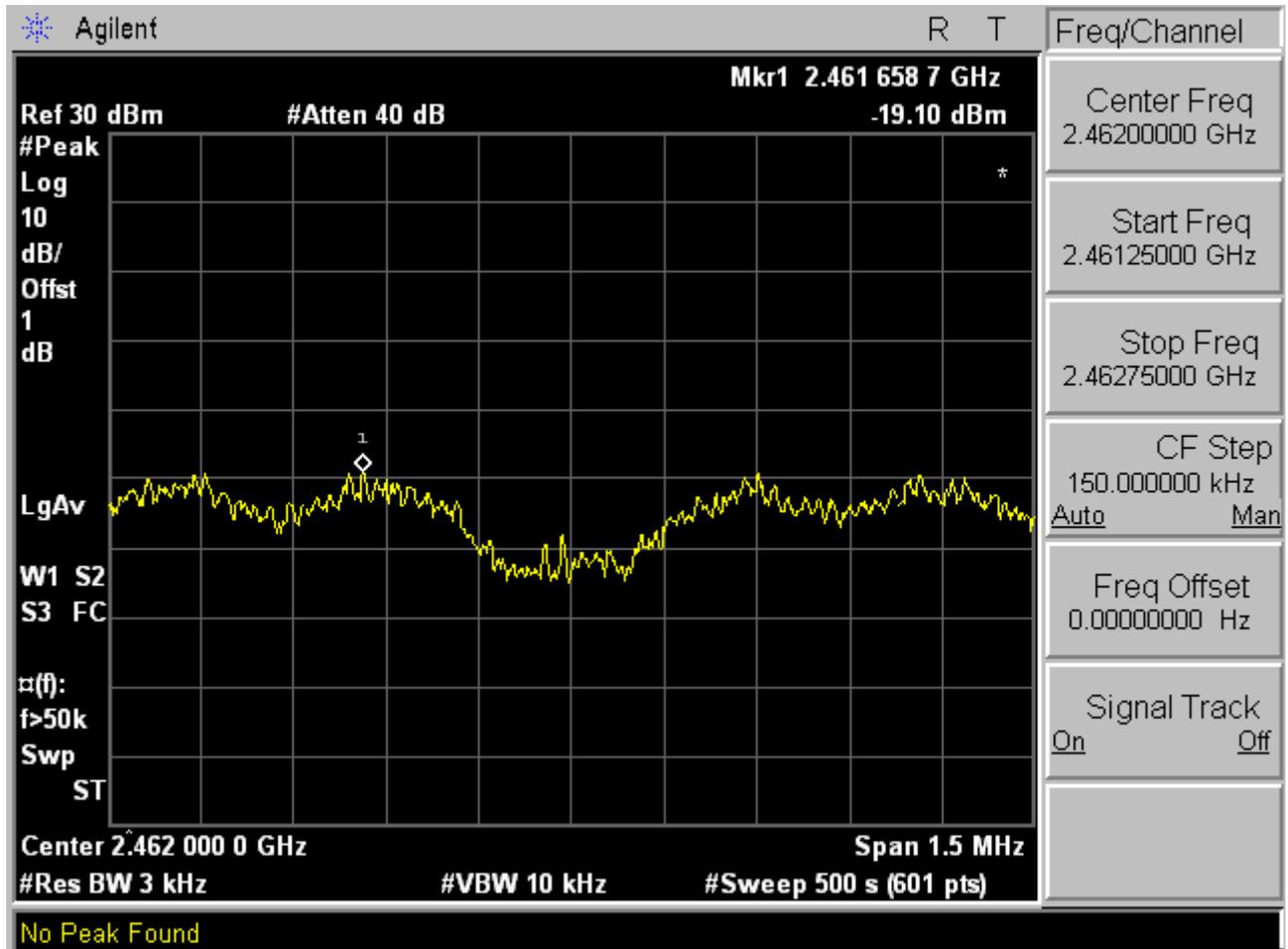


Channel 6





Channel 11





Appendix F

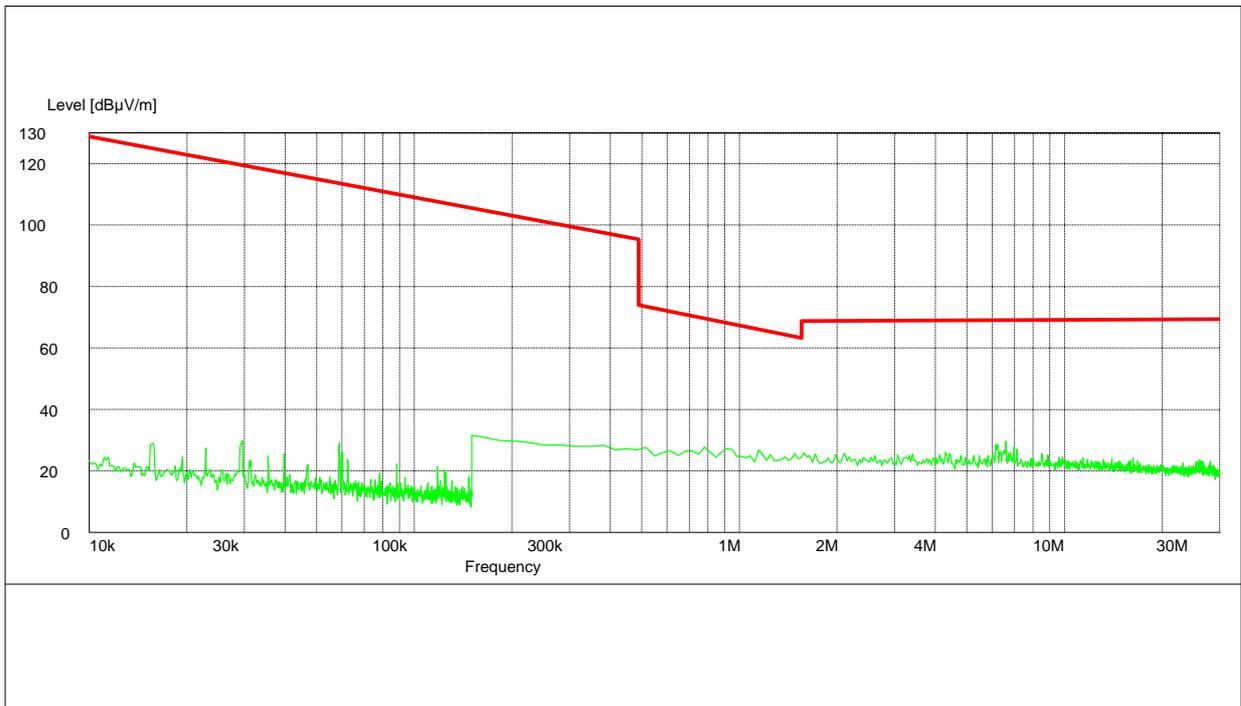
Radiated spurious emission & spurious in restricted band

According to FCC Part 15.247 (d) & 15.205 & 15.209



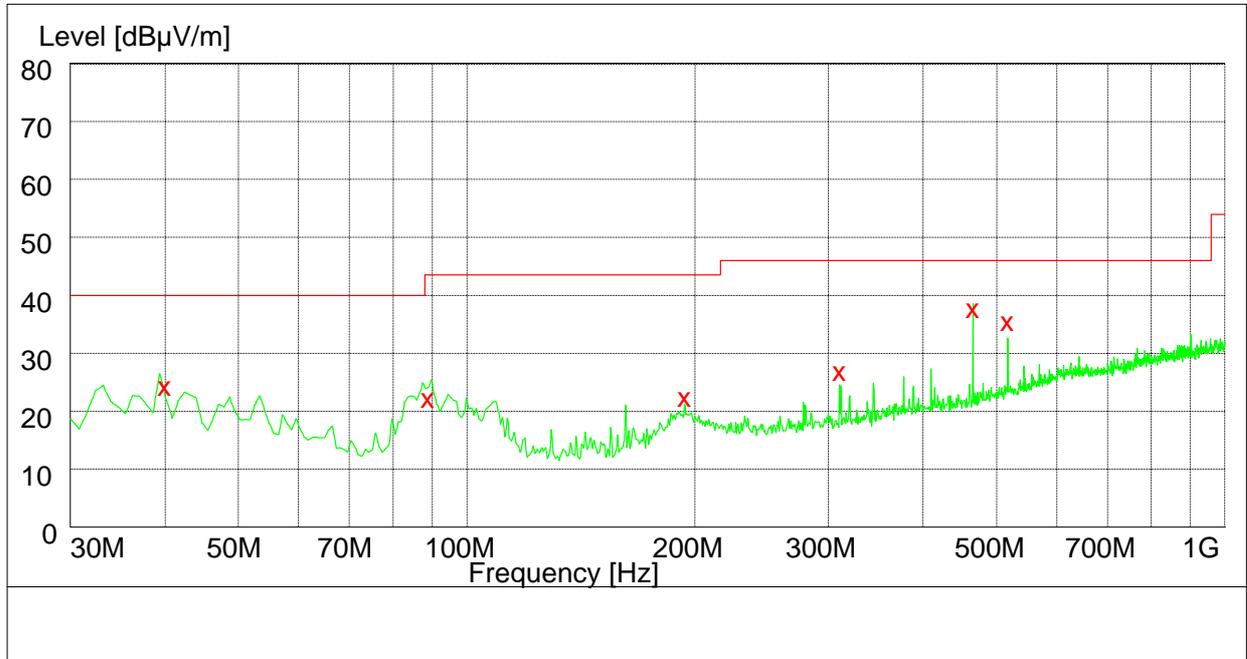
Note: This test was carried out in all the test modes, here only the worst test result was shown.

Channel 1 10kHz to 30MHz





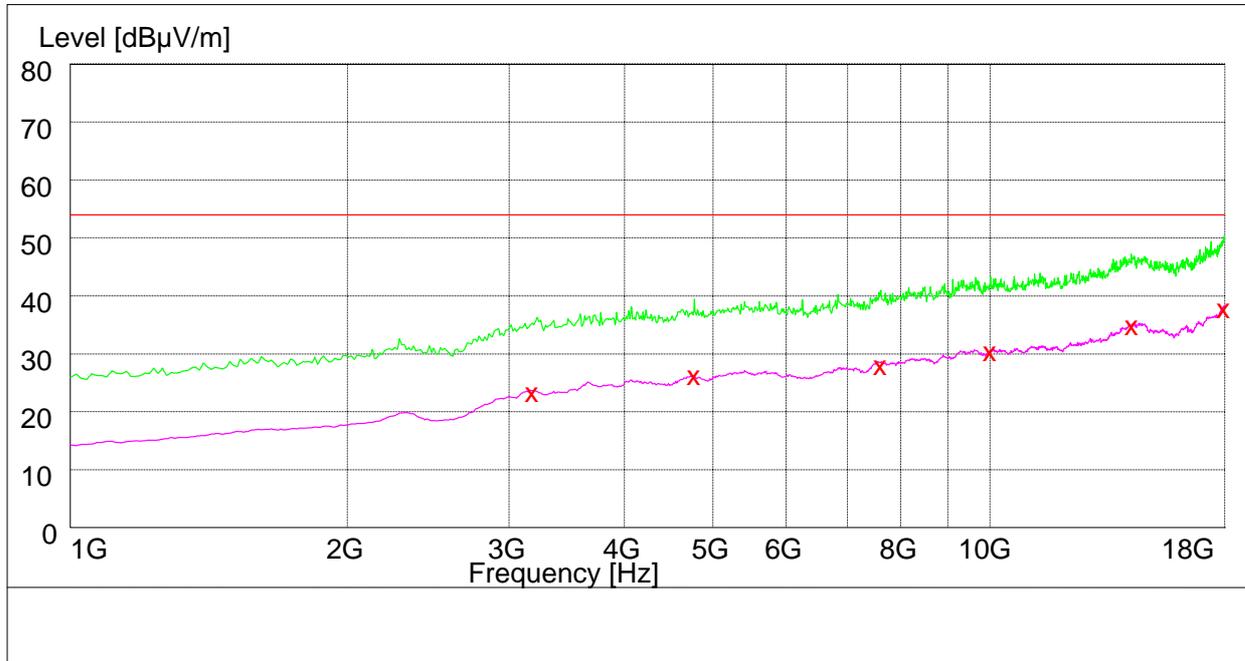
30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
40.020000	25.50	13.1	40.0	14.5	109.0	360.00	VERTICAL
89.100000	22.00	11.5	43.5	21.5	100.0	77.00	VERTICAL
194.040000	22.20	12.0	43.5	21.3	176.0	85.00	HORIZONTAL
310.440000	28.10	15.8	46.0	17.9	100.0	237.00	HORIZONTAL
465.660000	38.90	19.2	46.0	7.1	100.0	189.00	HORIZONTAL
517.380000	35.30	20.6	46.0	10.7	100.0	202.00	HORIZONTAL



1GHz to 18GHz



Note: Signal suppressed with a 2.4 GHz band rejection filter

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
3160.500000	23.10	-8.4	54.0	30.9	186.0	154.00	HORIZONTAL
4259.500000	24.60	-5.2	54.0	29.4	136.0	359.00	VERTICAL
5332.000000	26.00	-2.6	54.0	28.0	200.0	263.00	HORIZONTAL
9635.000000	29.90	5.1	54.0	24.1	100.0	338.00	HORIZONTAL
14605.500000	34.20	12.1	54.0	19.8	100.0	46.00	HORIZONTAL
18000.000000	37.00	17.3	54.0	17.0	200.0	262.00	HORIZONTAL



FCC Test Report of UM840
FCC ID: QISUM840

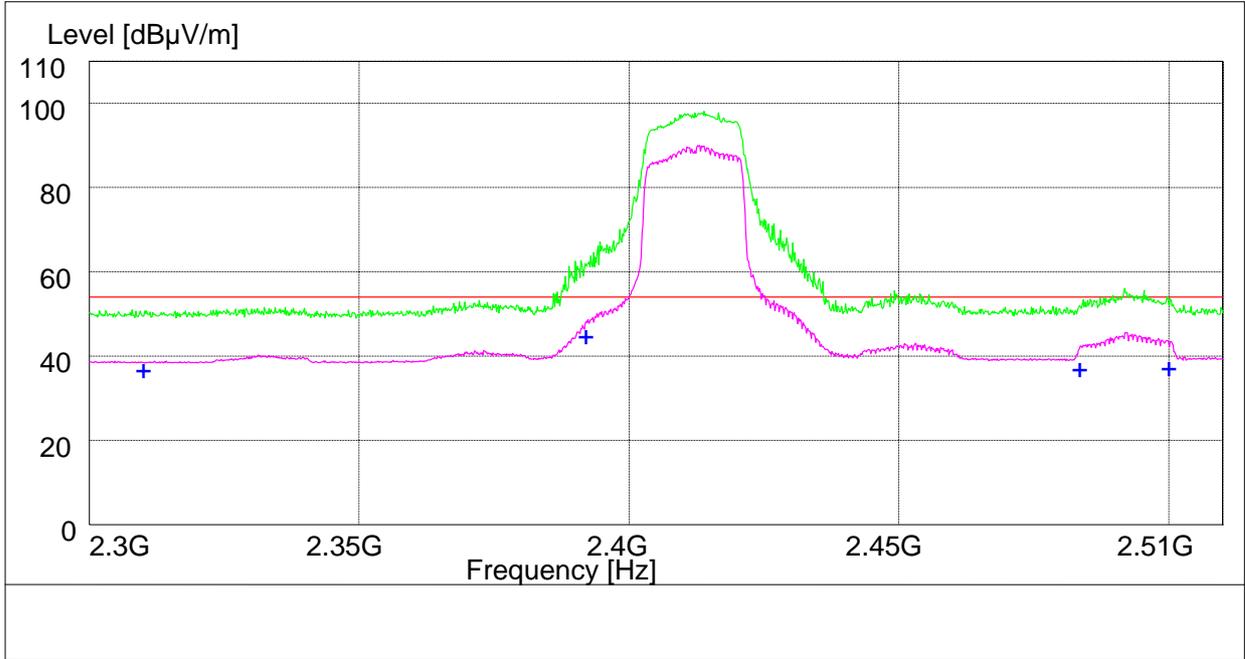
Security Level:
Public

18GHz to 26GHz

Note: No peak found in pre- test.



2GHz to 3GHz



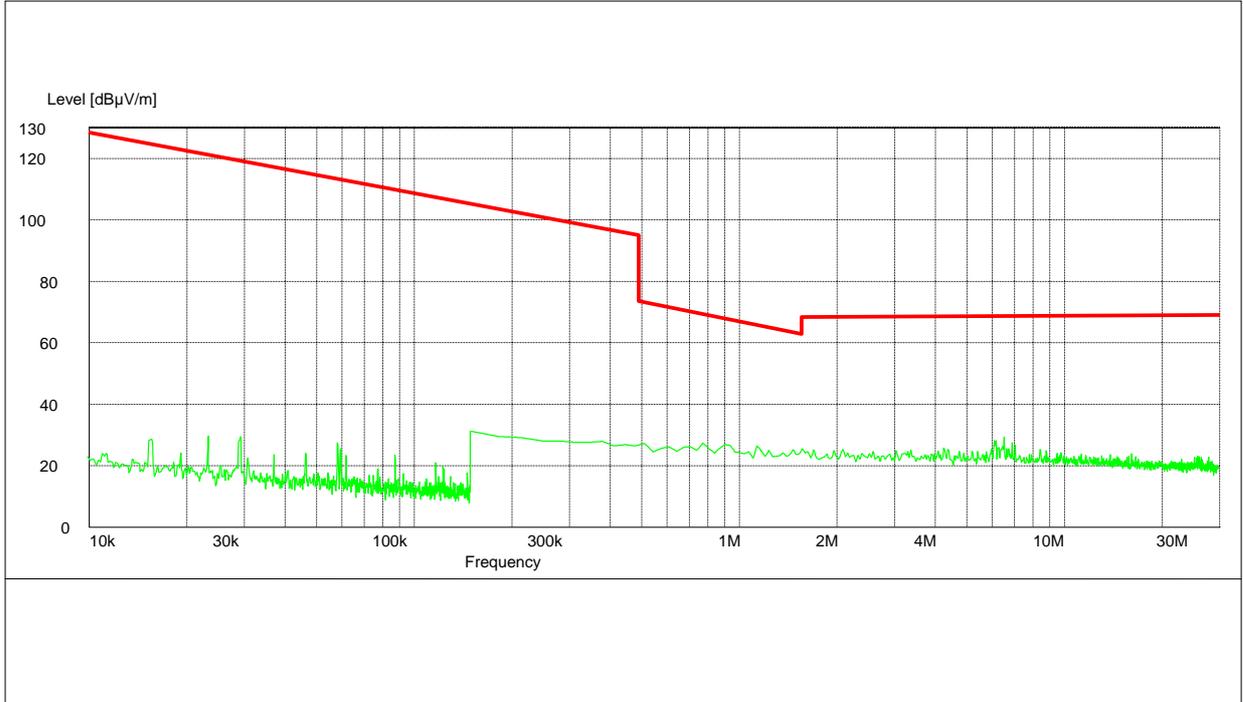
Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	38.50	33.3	54.0	15.5	123.0	73.00	HORIZONTAL
2390.000000	46.60	33.5	54.0	7.4	100.0	23.00	VERTICAL
2483.500000	38.70	33.7	54.0	15.3	154.0	44.00	VERTICAL
2500.000000	38.80	33.8	54.0	15.2	124.0	254.00	HORIZONTAL



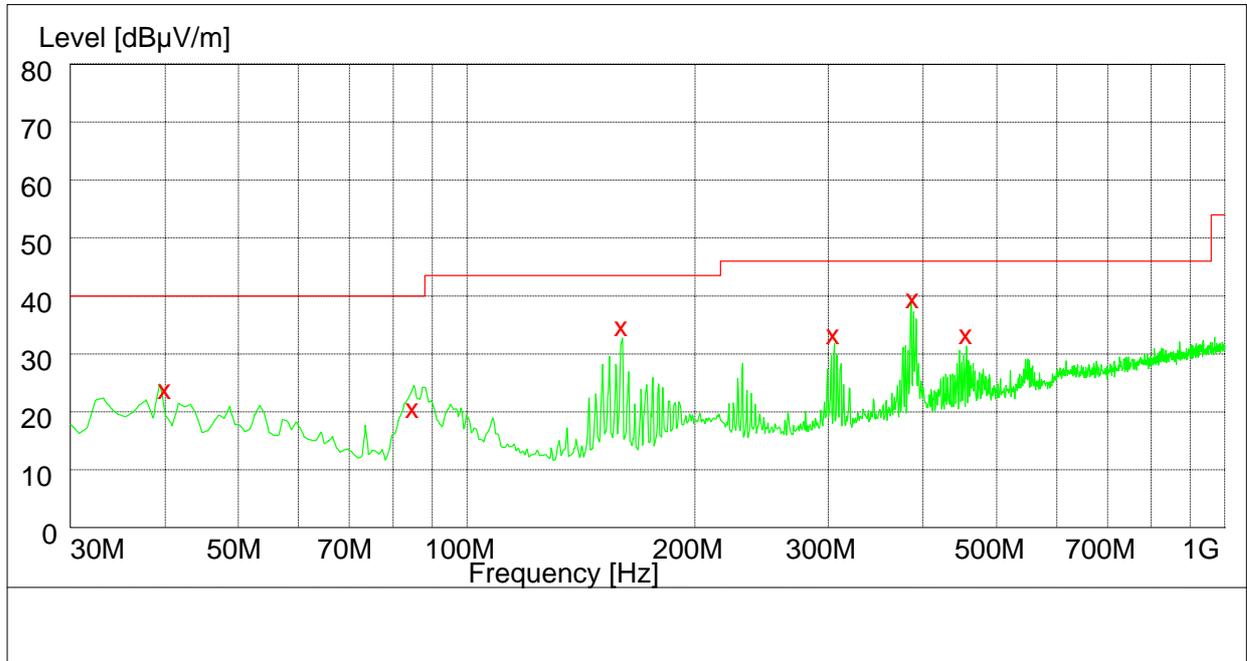
Channel 6

10 kHz to 30MHz





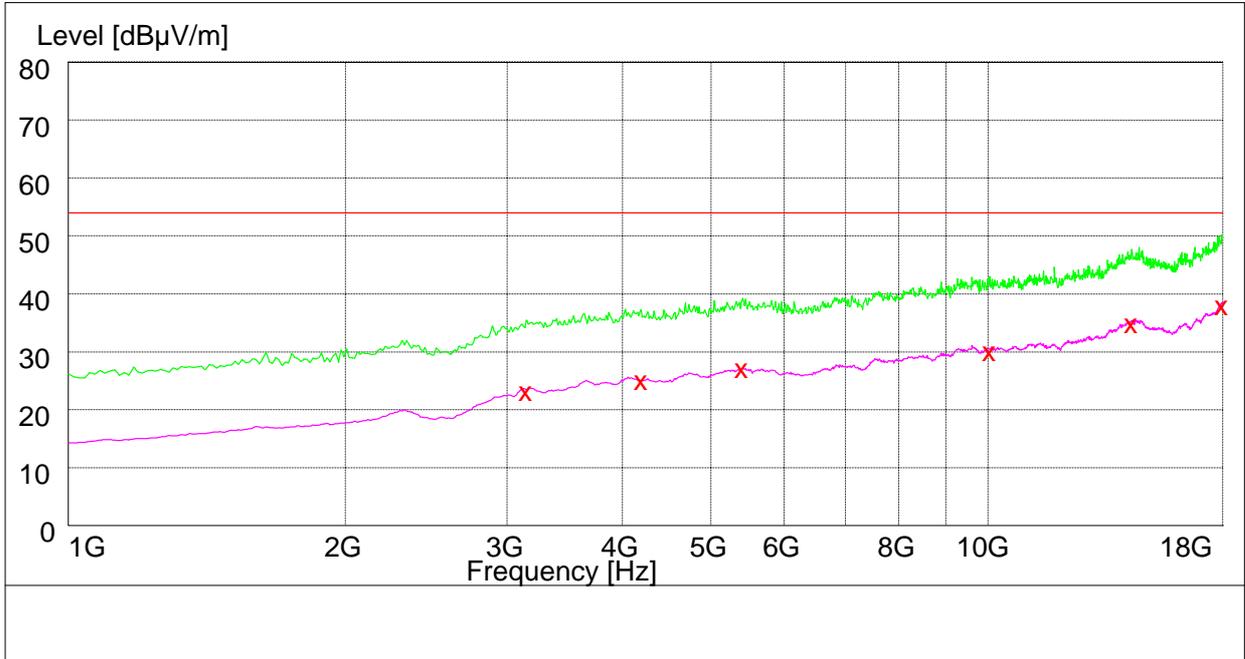
30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
40.020000	25.10	13.1	40.0	14.9	100.0	216.00	HORIZONTAL
84.900000	21.80	10.1	40.0	18.2	145.0	121.00	VERTICAL
160.320000	35.90	9.6	43.5	7.6	123.0	304.00	HORIZONTAL
305.160000	34.50	15.6	46.0	11.5	152.0	146.00	HORIZONTAL
388.140000	41.30	17.8	46.0	4.7	128.0	332.00	HORIZONTAL
456.000000	34.40	19.0	46.0	11.6	150.0	124.00	HORIZONTAL



1GHz to 18GHz



Note: Signal suppressed with a 2.4 GHz band rejection filter

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
3145.000000	22.90	-8.5	54.0	31.1	125.0	358.00	VERTICAL
4201.000000	24.90	-5.5	54.0	29.1	140.0	163.00	HORIZONTAL
5404.000000	26.80	-2.5	54.0	27.2	165.0	40.00	HORIZONTAL
10037.000000	29.80	5.1	54.0	24.2	186.0	273.00	HORIZONTAL
14323.000000	34.70	11.8	54.0	19.3	111.0	171.00	VERTICAL
17966.000000	37.80	17.1	54.0	16.2	187.0	100.00	VERTICAL



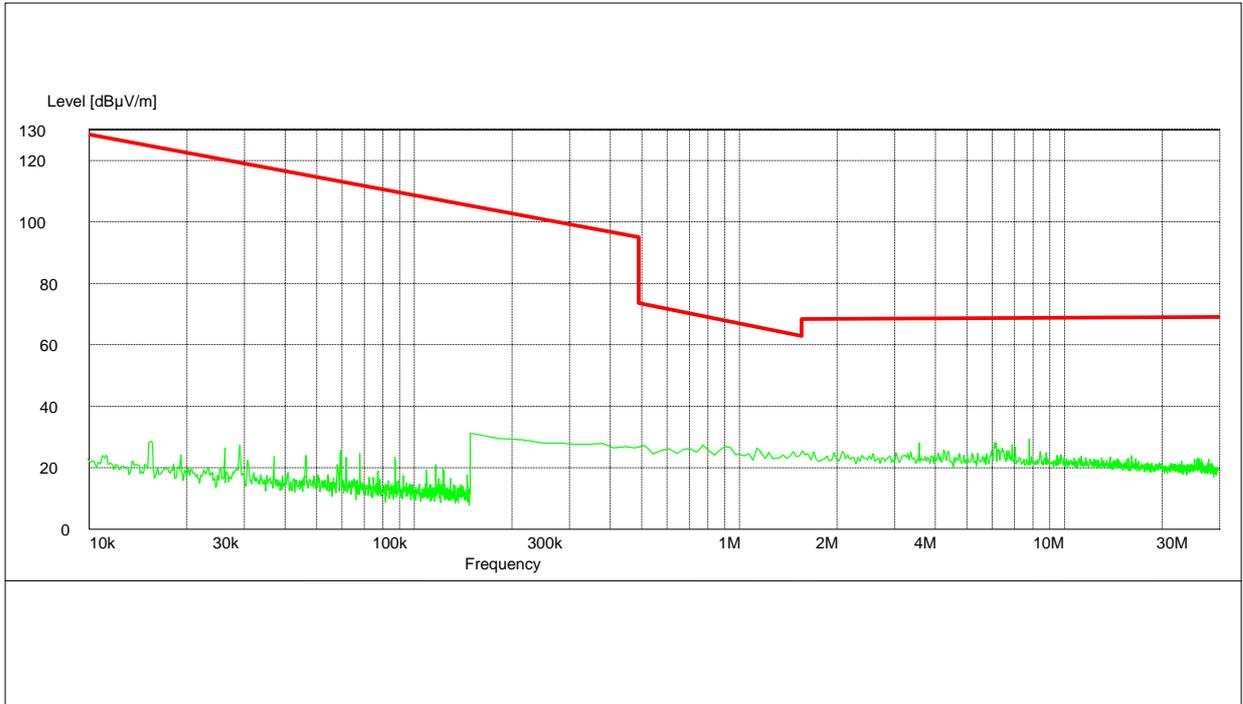
18GHz to 26GHz

Note: No peak found in pre- test.



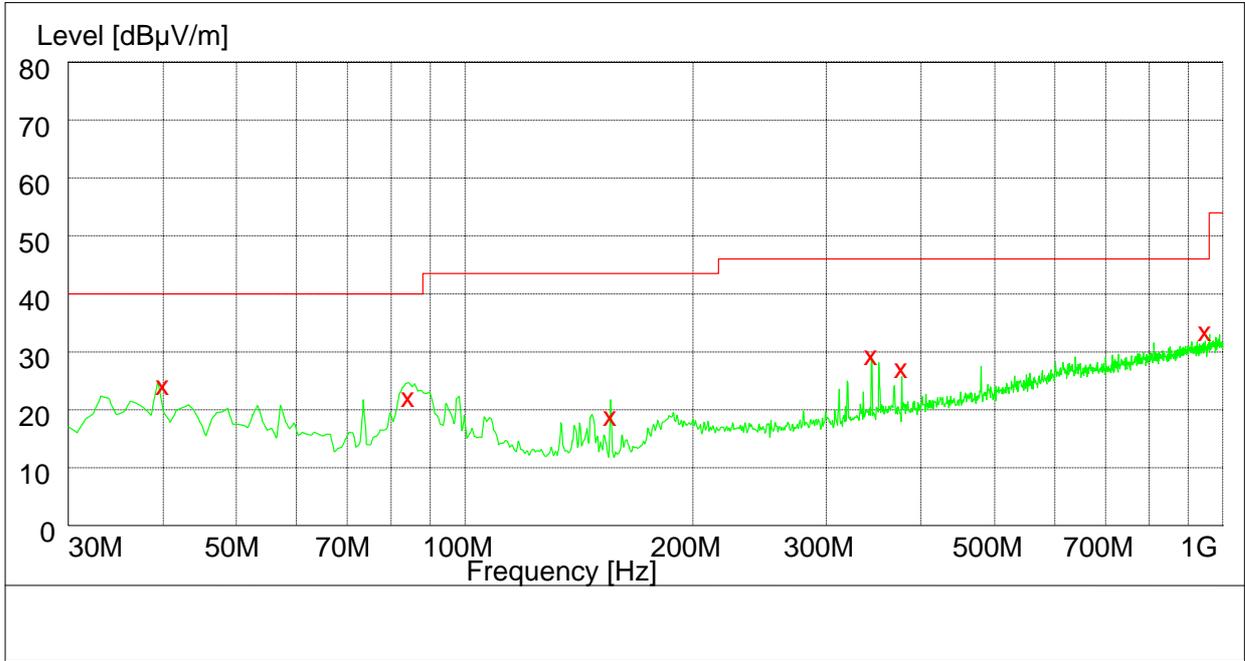
Channel 11

10 kHz to 30 MHz





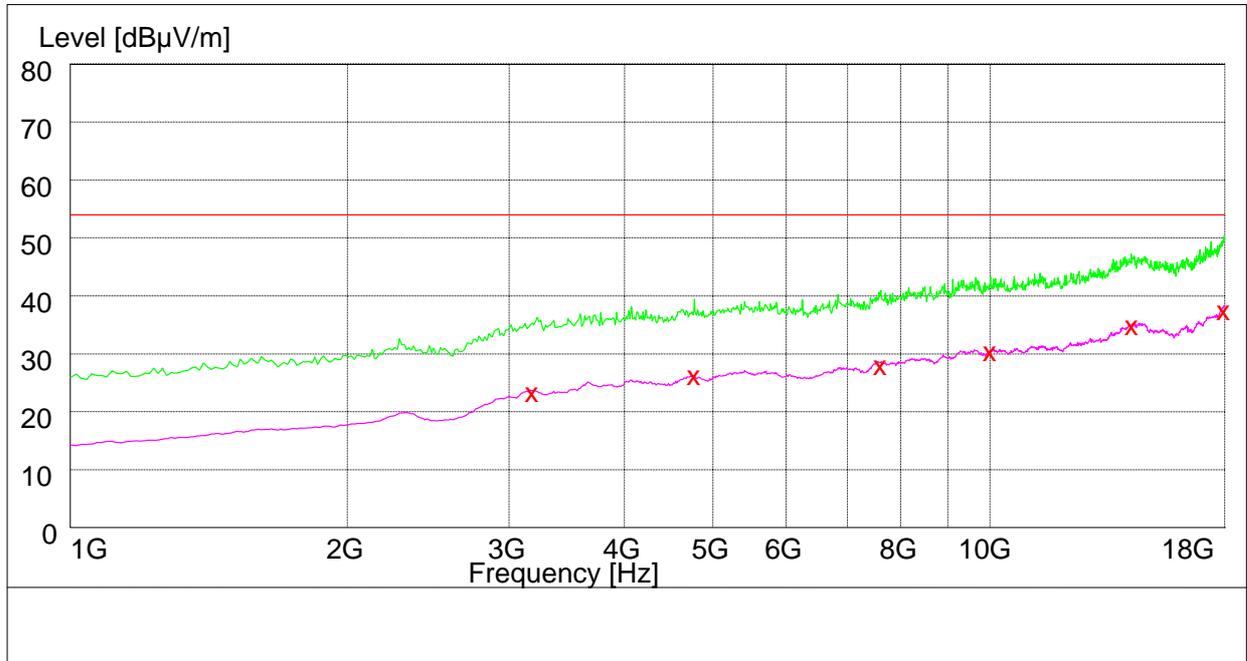
30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
40.020000	25.30	13.1	40.0	14.7	134.0	334.00	VERTICAL
84.240000	23.20	9.9	40.0	16.8	274.0	91.00	VERTICAL
155.640000	20.00	9.3	43.5	23.5	139.0	242.00	HORIZONTAL
344.040000	30.60	17.0	46.0	15.4	172.0	156.00	HORIZONTAL
376.860000	28.30	17.6	46.0	17.7	247.0	131.00	HORIZONTAL
948.420000	34.70	26.6	46.0	11.3	148.0	71.00	VERTICAL



1GHz to 18GHz



Note: Signal suppressed with a 2.4 GHz band rejection filter

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
3181.000000	23.10	-8.3	54.0	30.9	132.0	139.00	HORIZONTAL
4767.500000	26.00	-4.1	54.0	28.0	145.0	0.00	VERTICAL
7607.000000	27.80	1.7	54.0	26.2	118.0	359.00	HORIZONTAL
10019.500000	30.10	5.1	54.0	23.9	126.0	66.00	HORIZONTAL
14274.000000	34.70	11.7	54.0	19.3	141.0	115.00	VERTICAL
17958.500000	37.60	17.0	54.0	16.4	150.0	30.00	VERTICAL

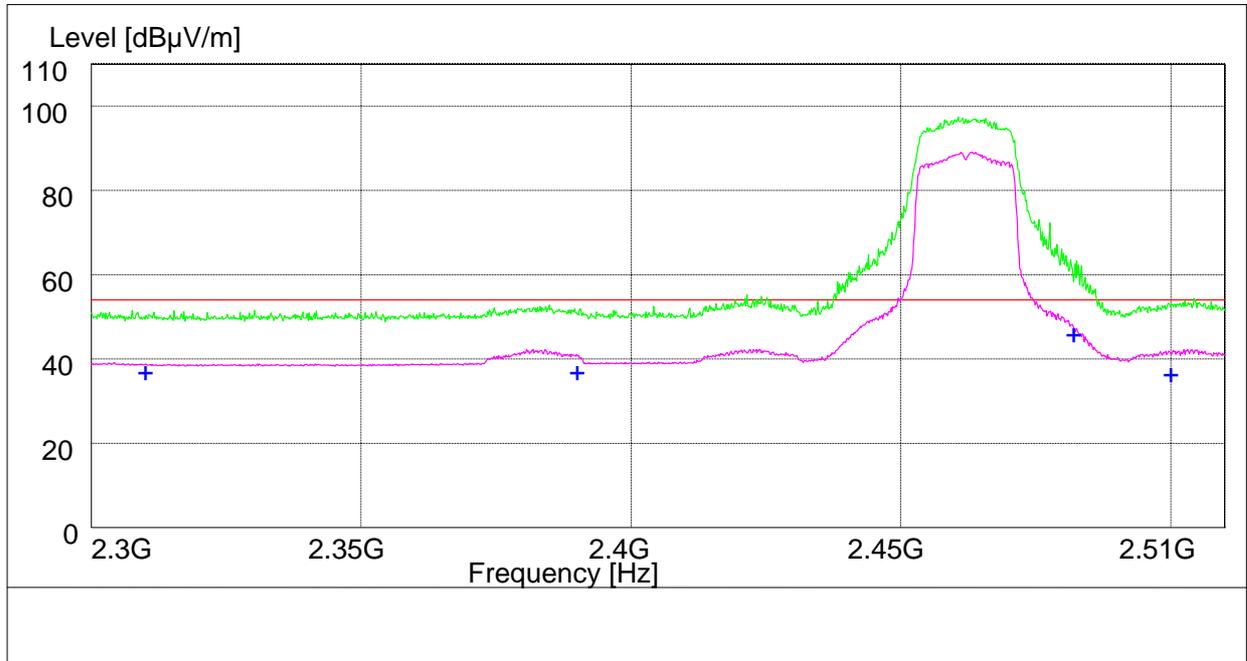


18GHz to 26GHz

Note: No peak found in pre- test.



2GHz to 3GHz



Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	38.50	33.3	54.0	15.5	135.0	54.00	HORIZONTAL
2390.000000	38.60	33.5	54.0	15.4	123.0	234.00	VERTICAL
2483.500000	47.80	33.7	54.0	6.2	100.0	16.00	HORIZONTAL
2500.000000	38.20	33.8	54.0	15.8	154.0	245.00	VERTICAL



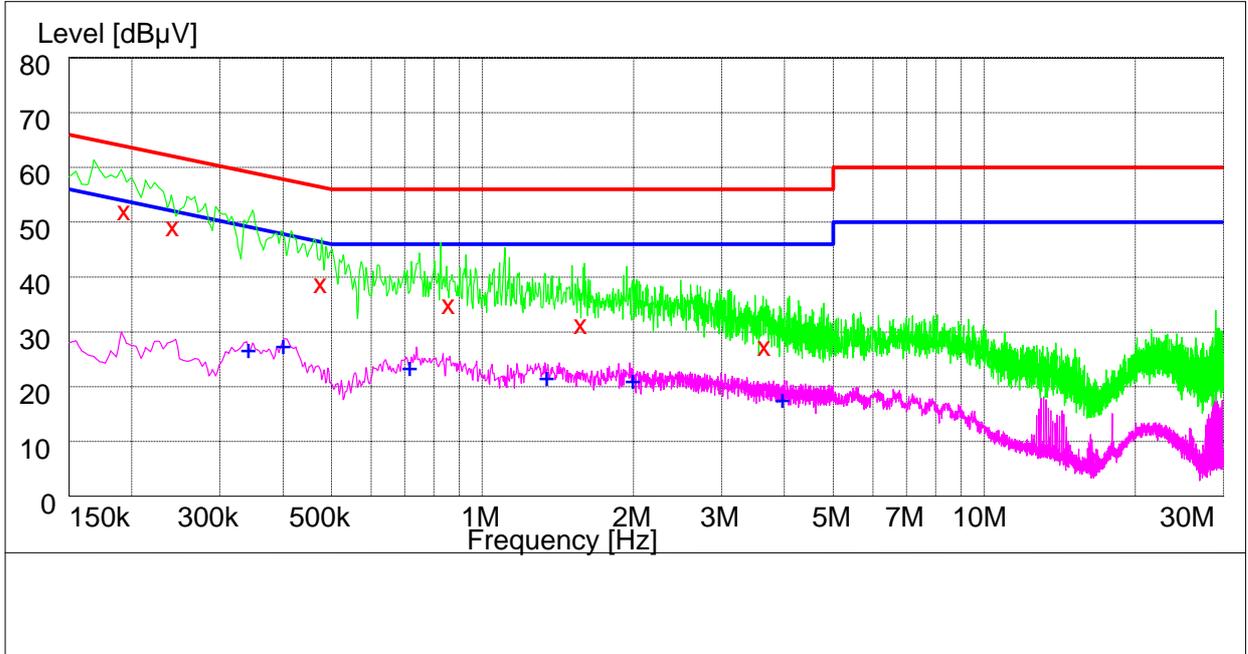
Appendix G

Conducted Emission at Power Port

According to FCC Part 15.207



Channel 6



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.194000	51.90	10.1	64	12.1	N	FLO
0.242000	49.00	10.0	62	13.0	N	FLO
0.476000	38.70	10.1	56	17.3	N	FLO
0.860000	34.80	10.1	56	21.2	N	FLO
1.576000	31.30	10.1	56	24.7	N	FLO
3.654000	27.30	10.2	56	28.7	N	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.342000	26.70	10.0	49	22.3	N	FLO
0.400000	27.40	10.0	48	20.6	N	FLO
0.716000	23.50	10.1	46	22.5	N	FLO
1.344000	21.60	10.1	46	24.4	N	FLO
1.998000	21.10	10.1	46	24.9	N	FLO
3.964000	17.60	10.2	46	28.4	N	FLO



FCC Test Report of UM840
FCC ID: QISUM840

Security Level:
Public