



# Appendix A

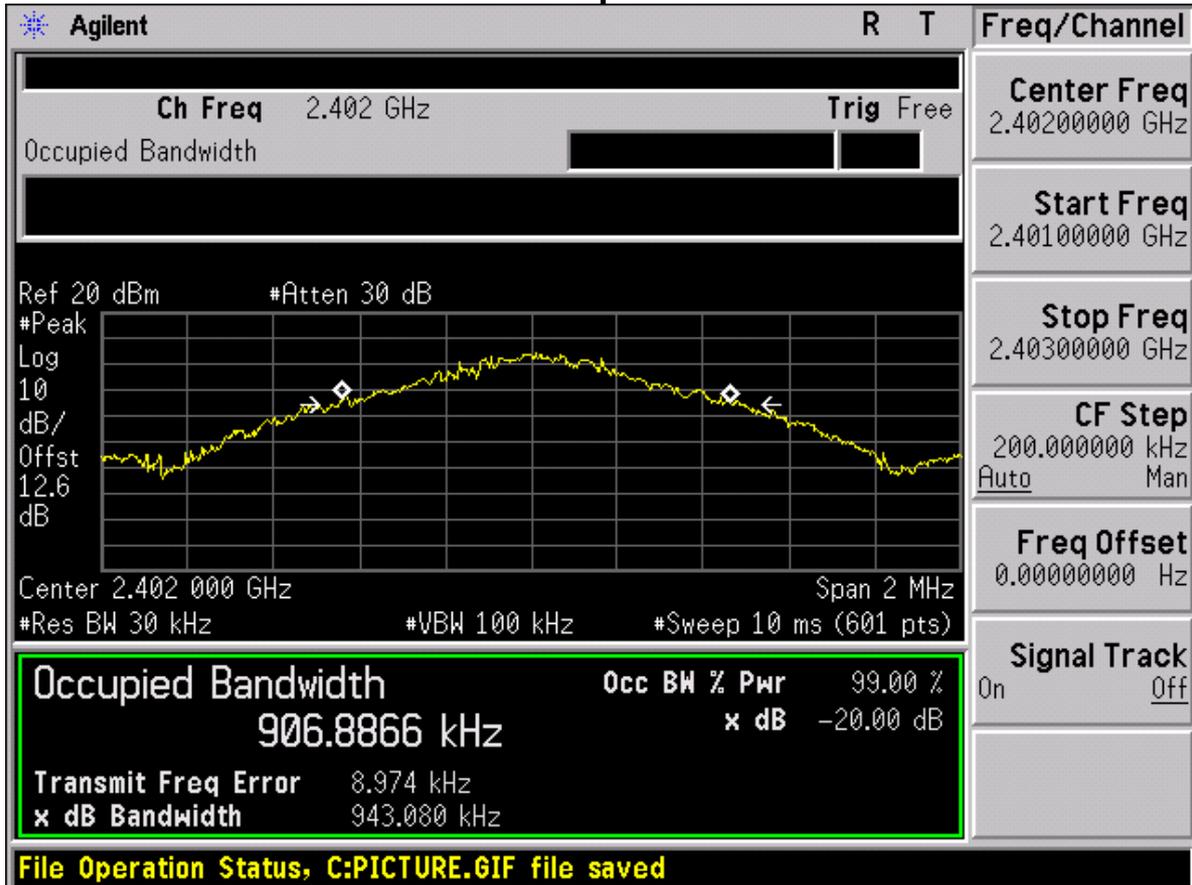
## 20dB bandwidth measurement

According to FCC Part 15.247 (a) (1)



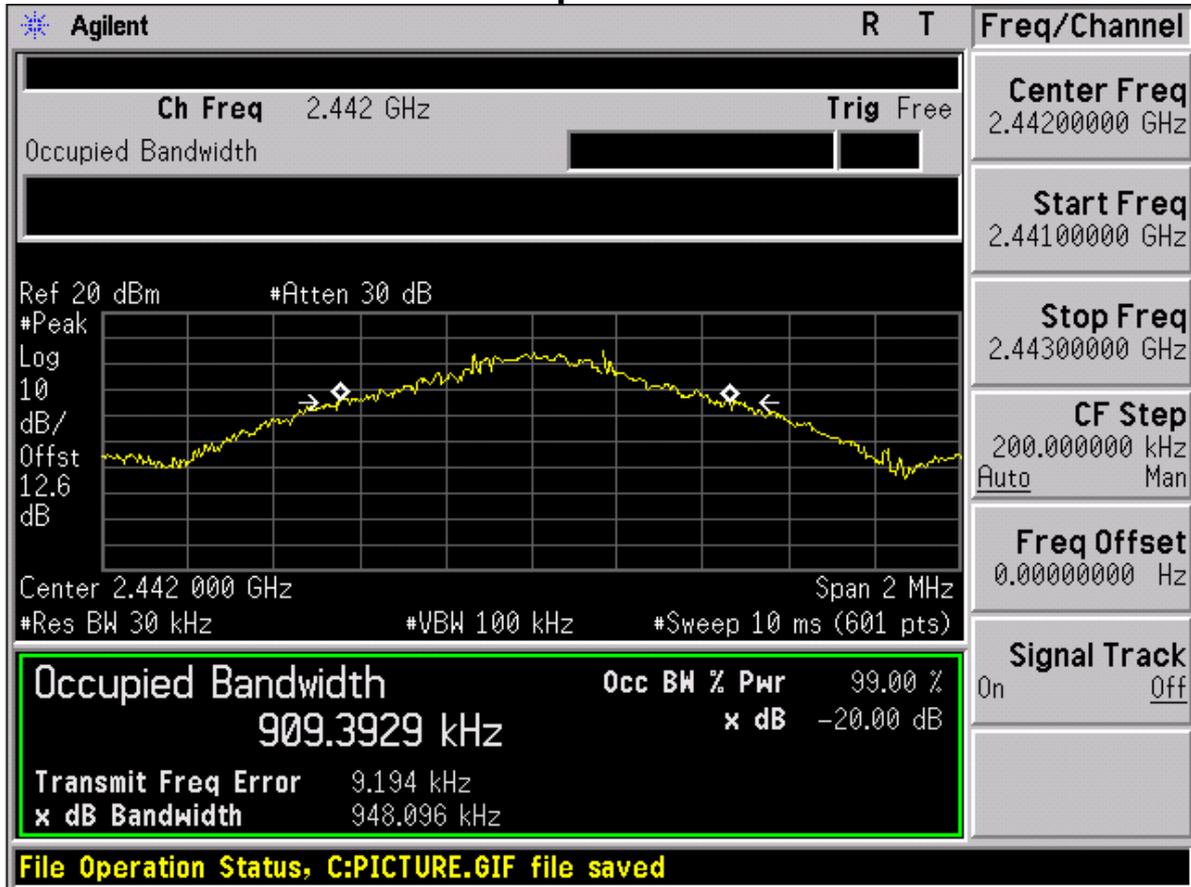
# Channel 0 (2402MHz)

## Occupied0



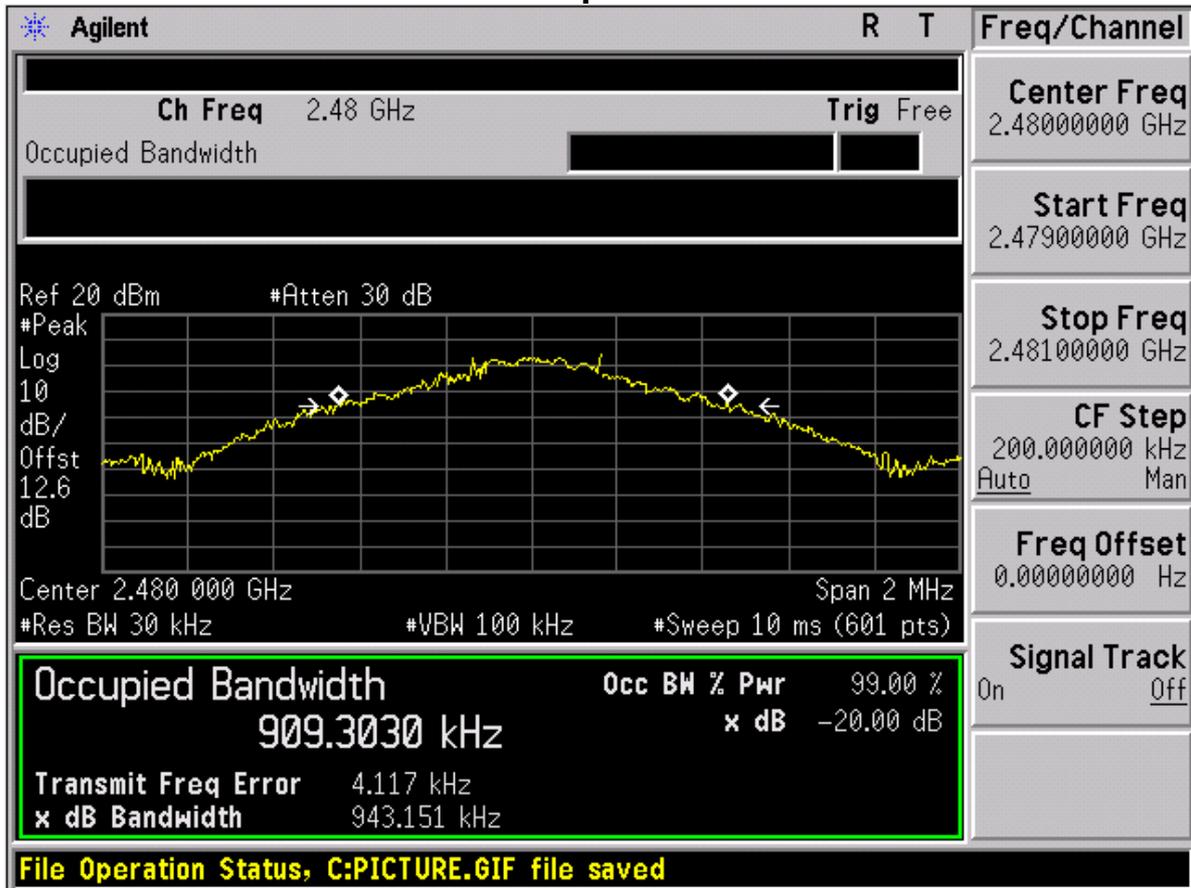


# Channel 40 (2442MHz) Occupied40





# Channel 78 (2480MHz) Occupied78





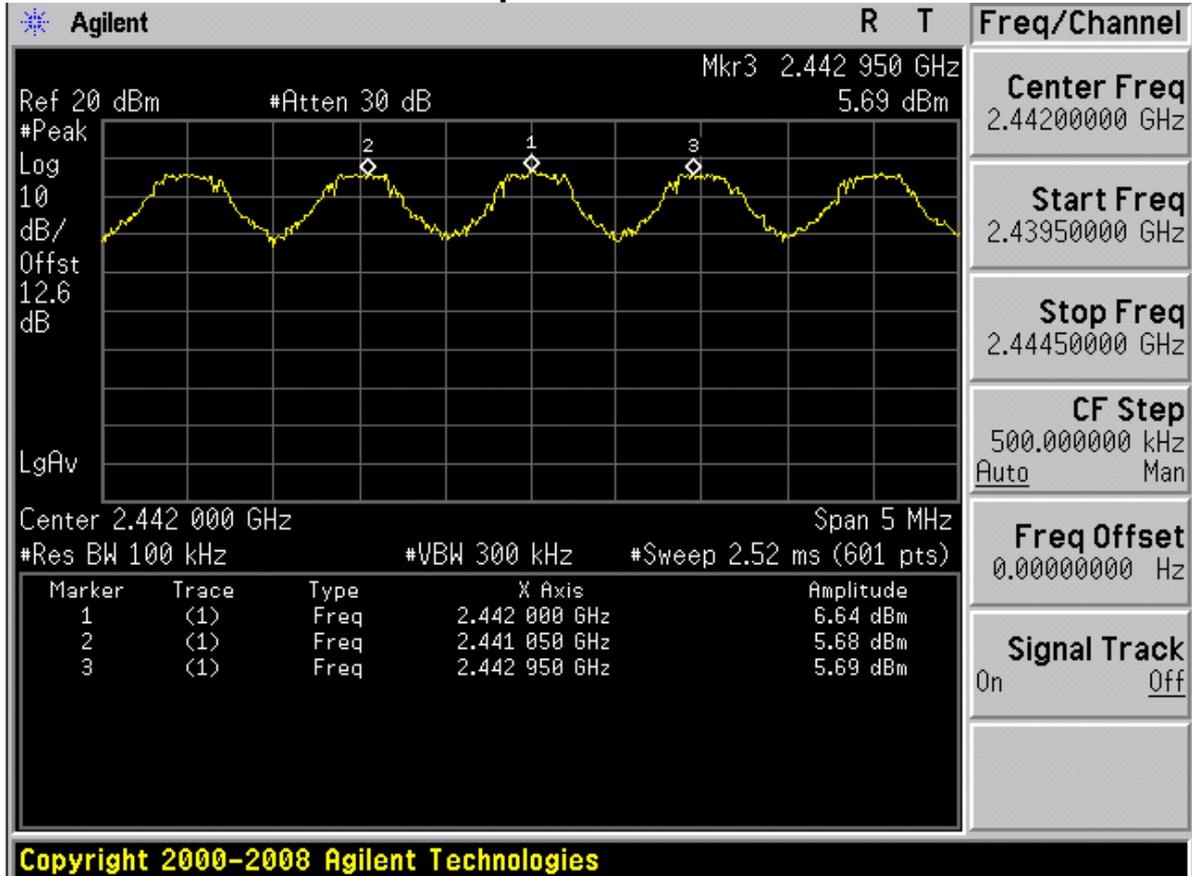
## **Appendix B**

# Carrier frequency separation measurement

According to FCC Part 15.247 (a) (1)



## Centred at Channel 40 Separation40



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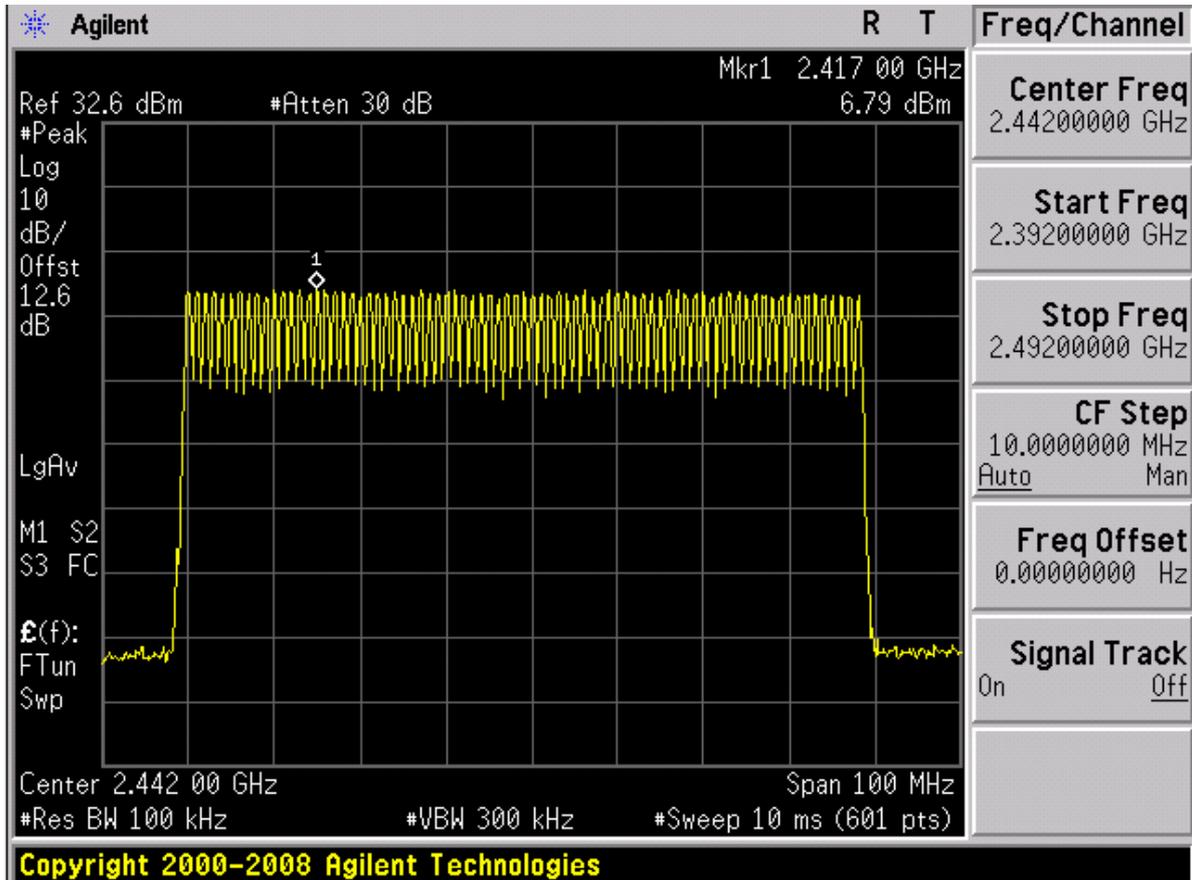
## Appendix C

# Number of hopping channel

According to FCC Part 15.247 (a) (1) iii



# Total hopping channels = 79 numberchannel40





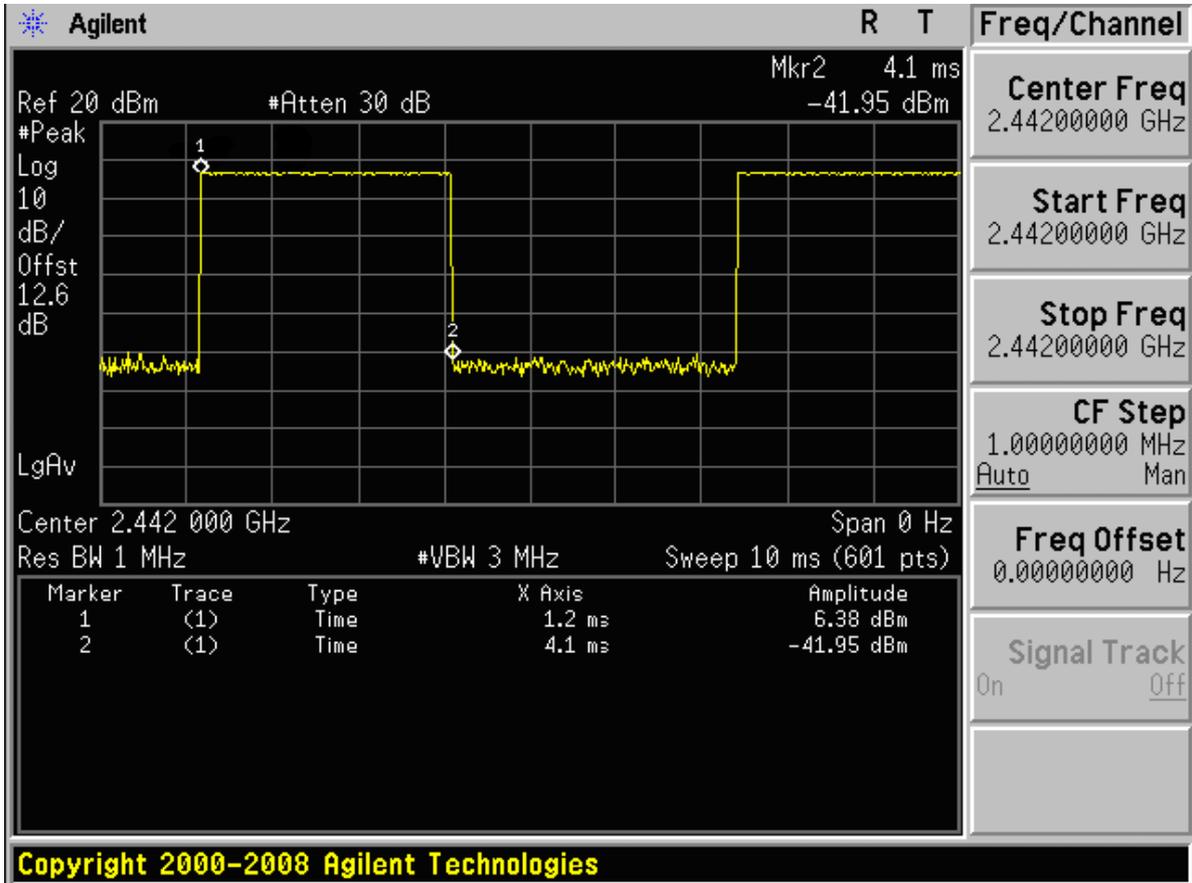
# Appendix D

## Time of occupancy

According to FCC Part 15.247 (a) (1) iii

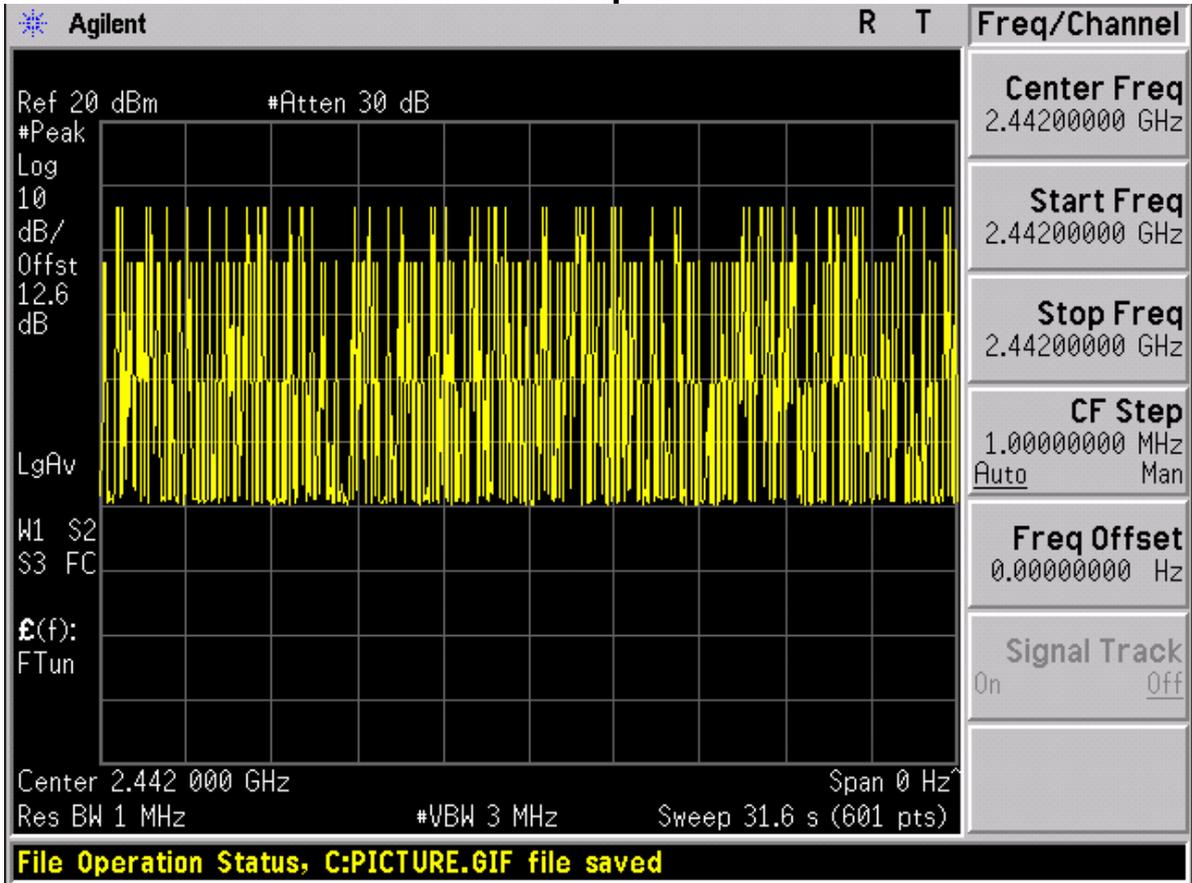


# A burst (One time slot) oneburst40





# A period (Less than 106.7 burst) numberofperiod40





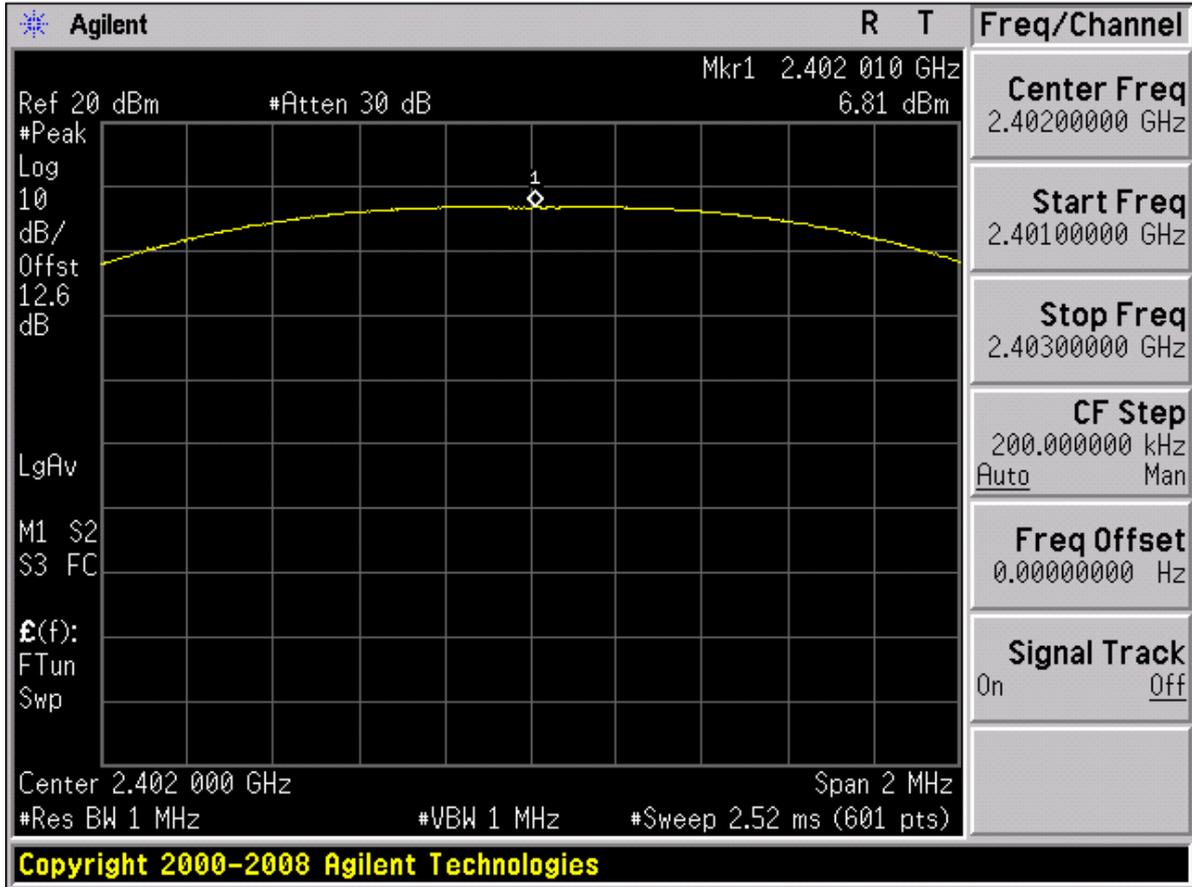
# Appendix E

## Peak output power

According to FCC Part 15.247 (b) (1)

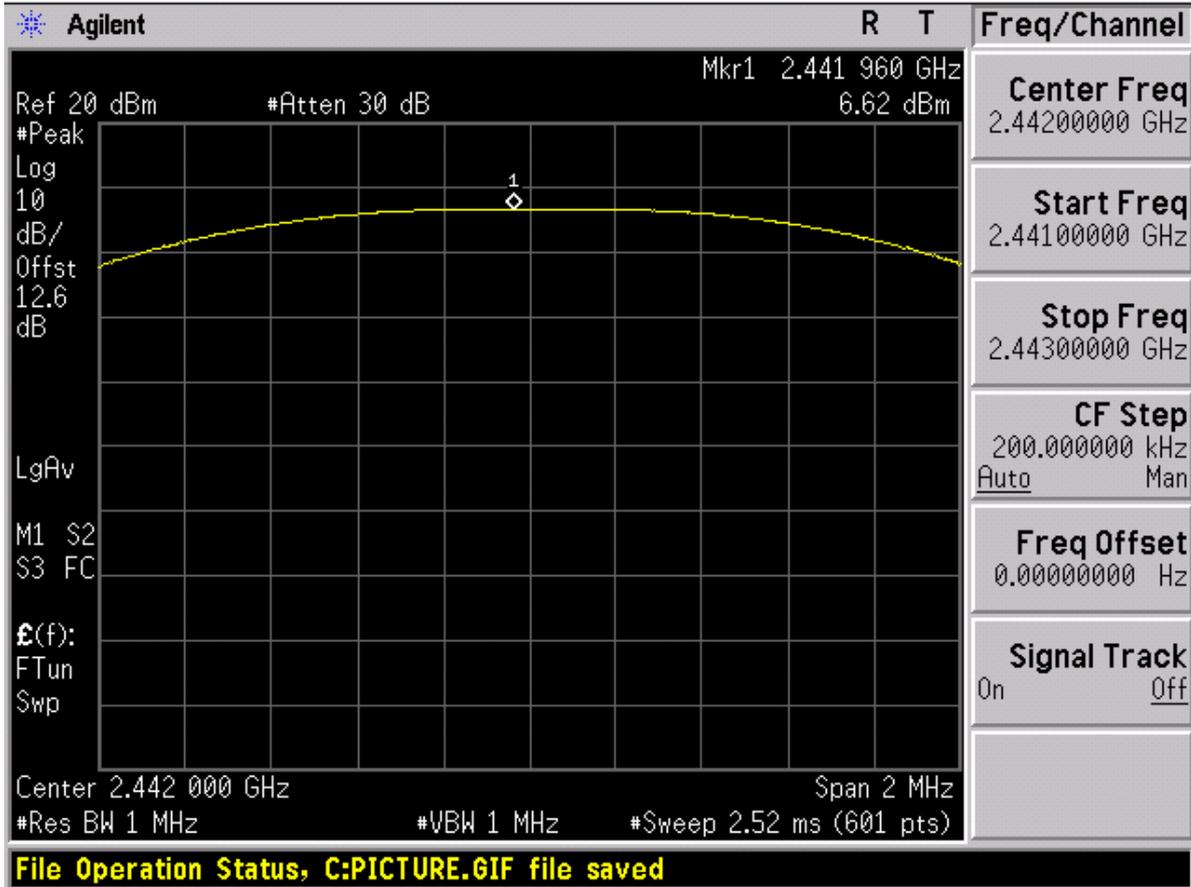


# Channel 0 (2402MHz) PeakPower0



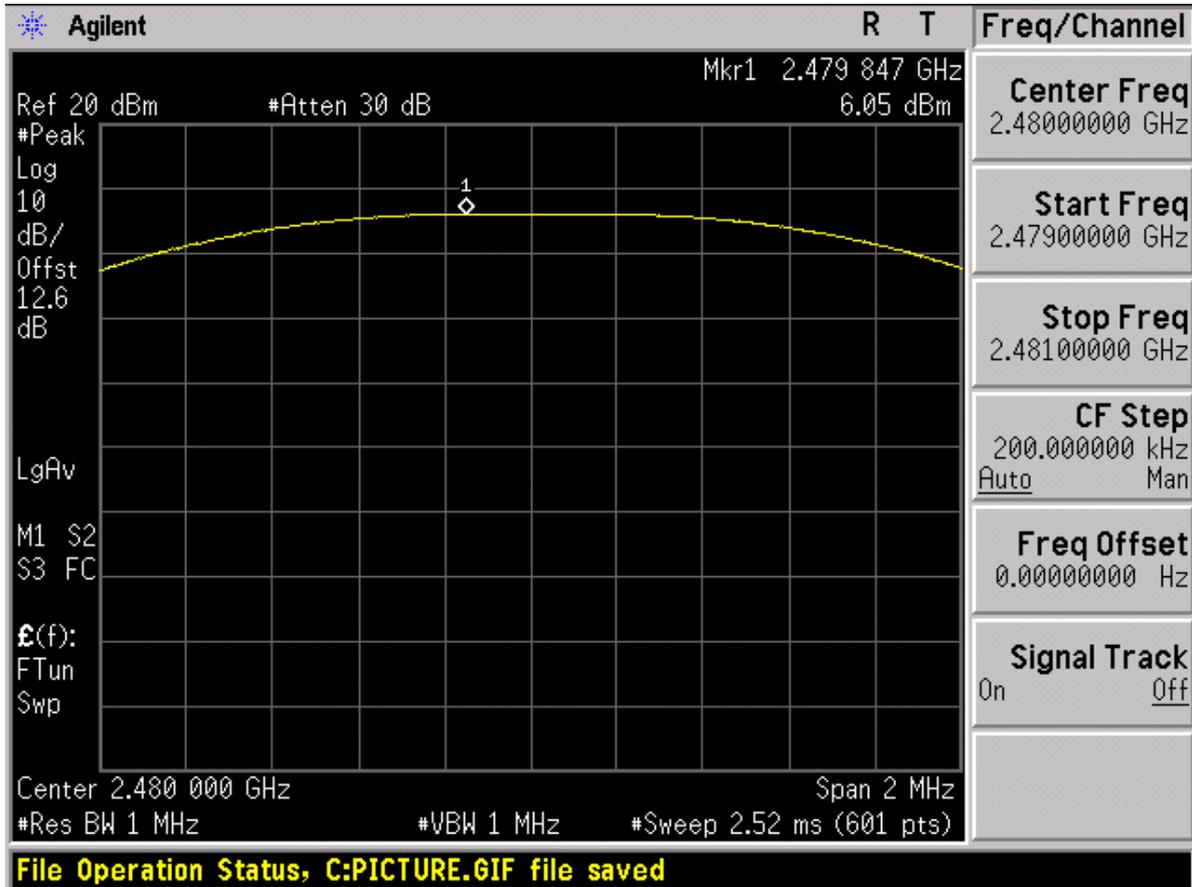


# Channel 40 (2442MHz) PeakPower40





# Channel 78 (2480MHz) PeakPower78





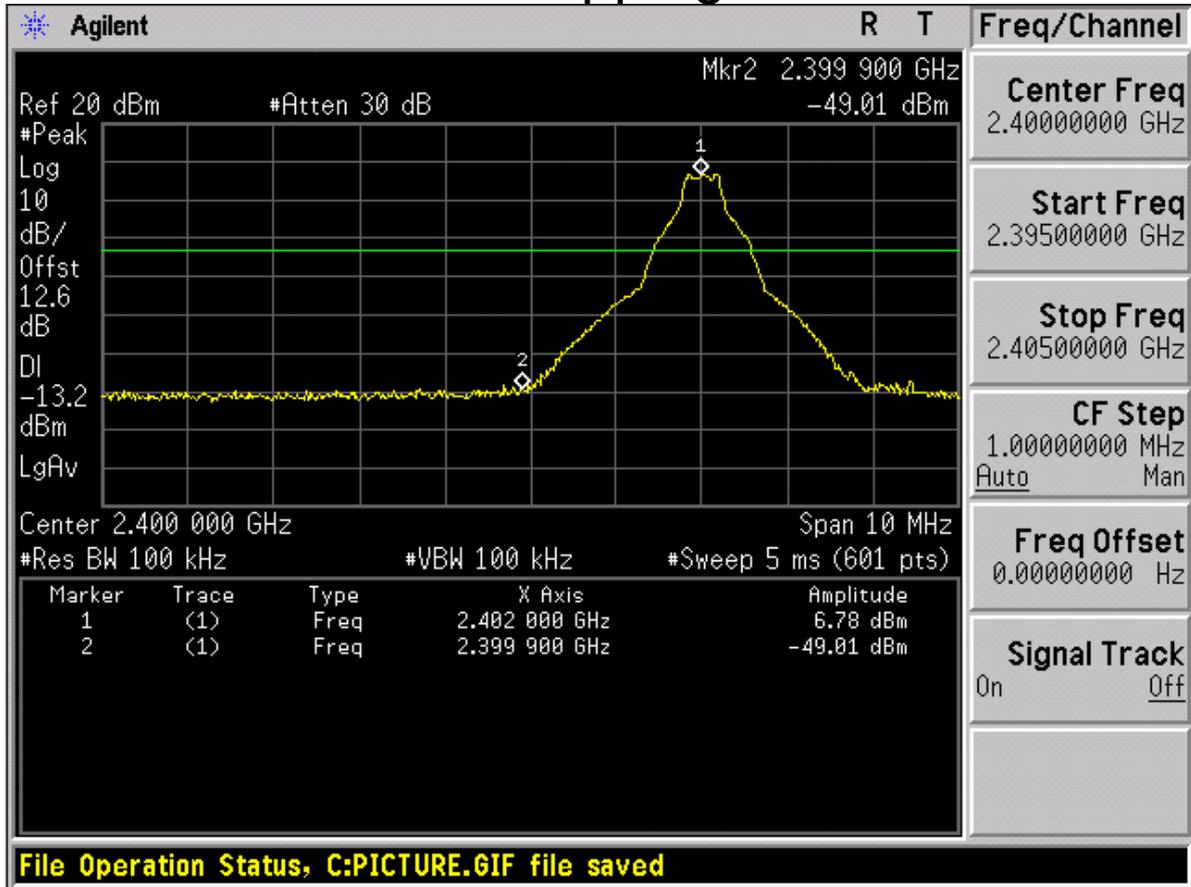
# Appendix F

## Band edge spurious emission

According to FCC Part 15.247 (d)

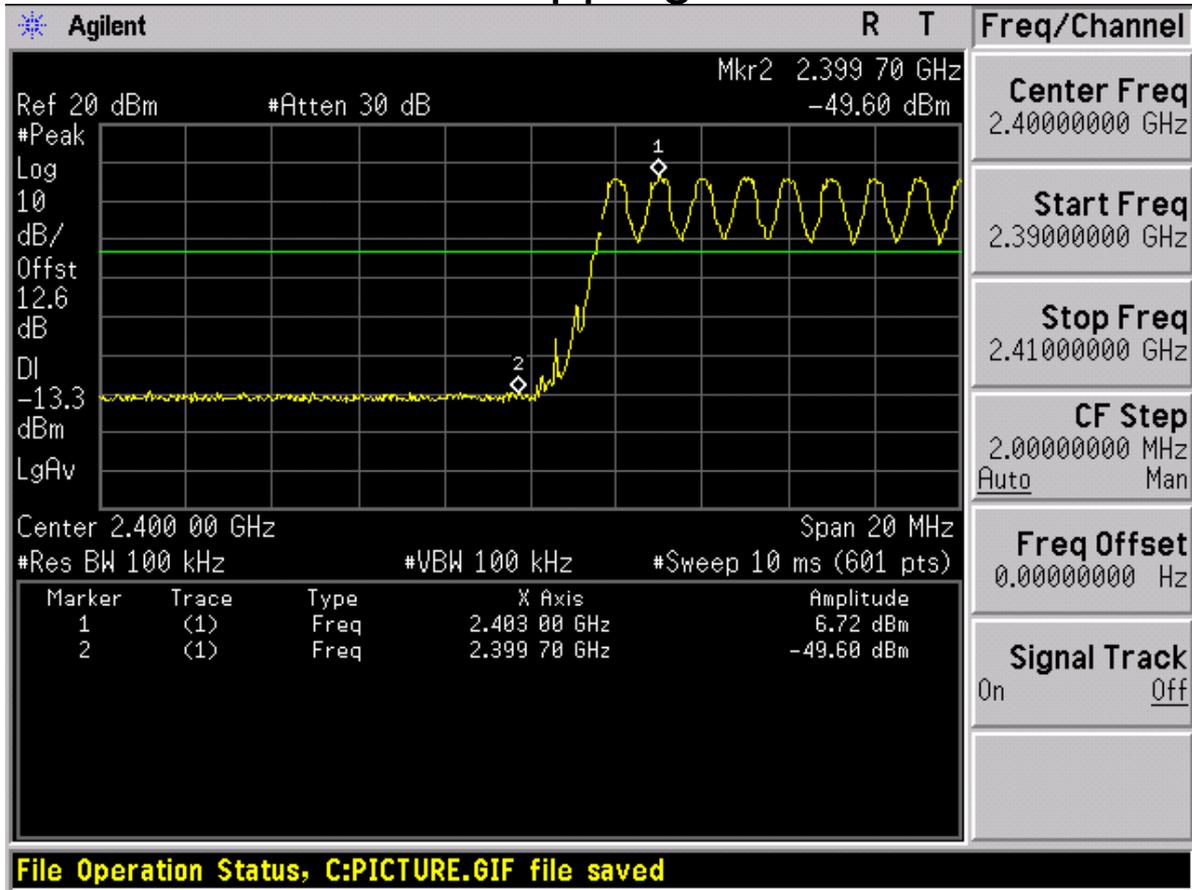


# Low edge (Channel 0, no hopping) Nohopping0



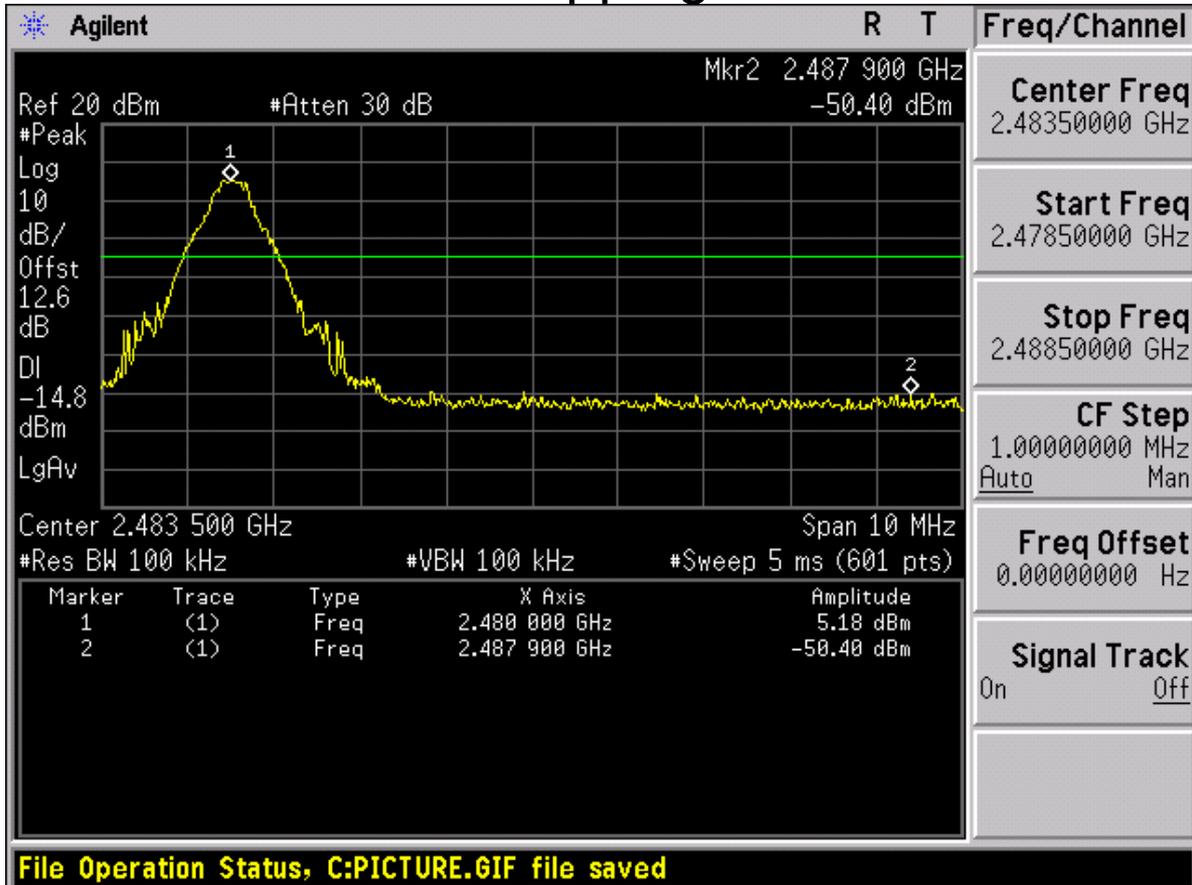


# Low edge (with hopping) Hopping0



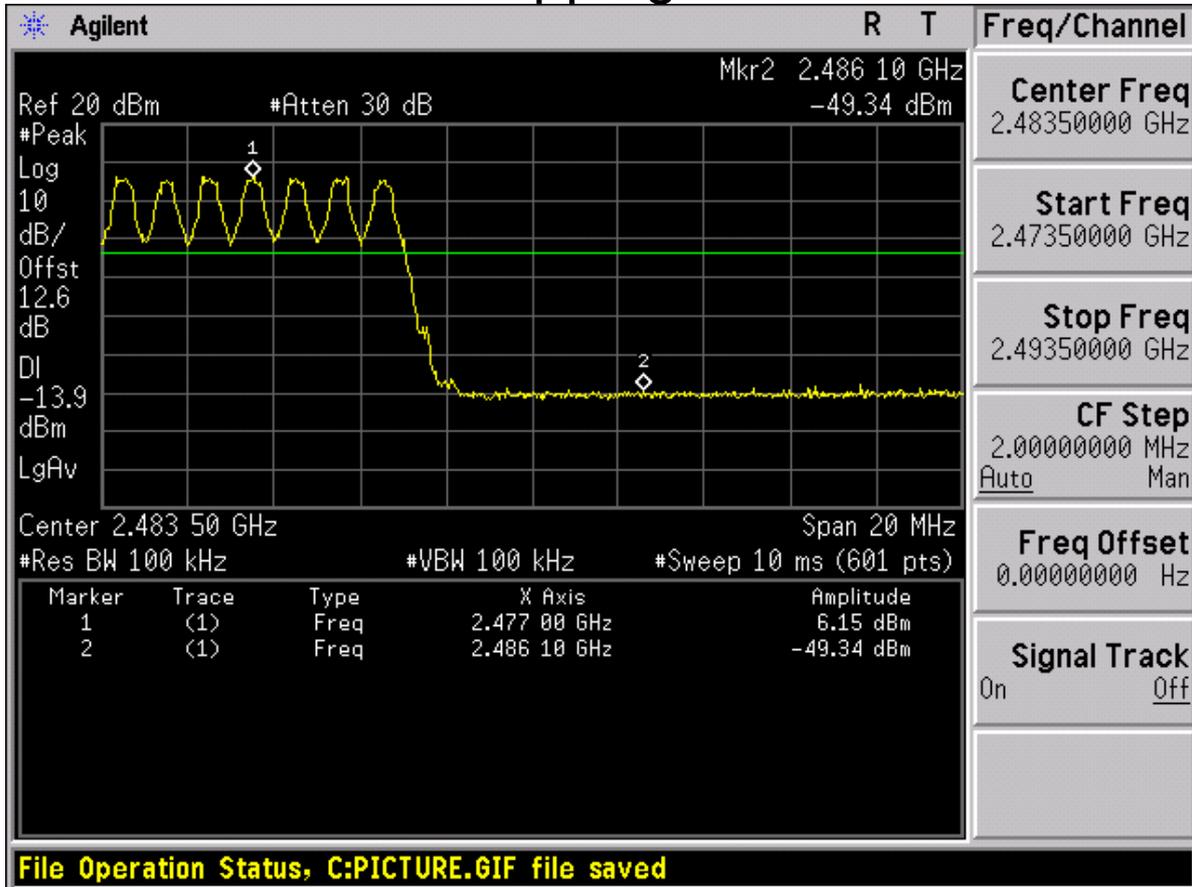


# High edge (Channel 78, no hopping) Nohopping78





# High edge (with hopping) Hopping78





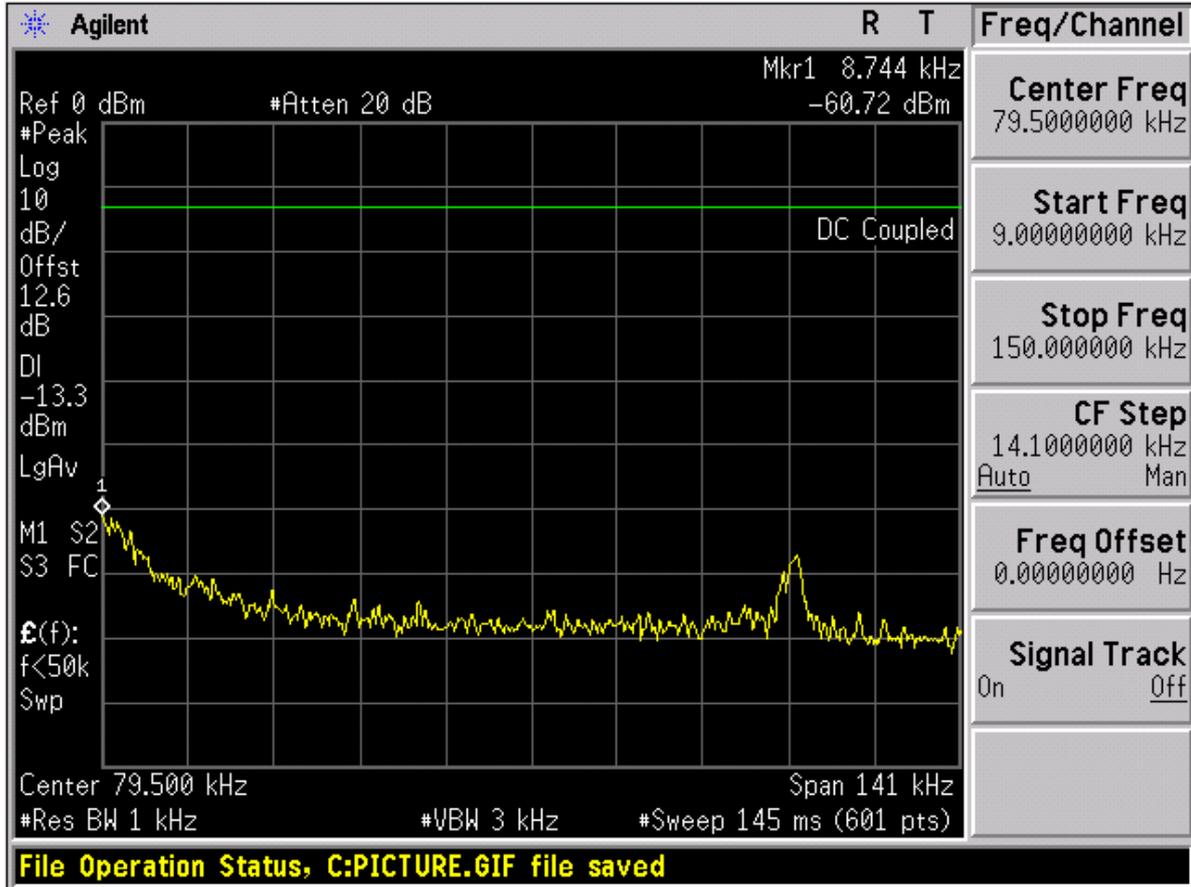
# Appendix G

## Conducted RF spurious

According to FCC Part 15.247 (d)

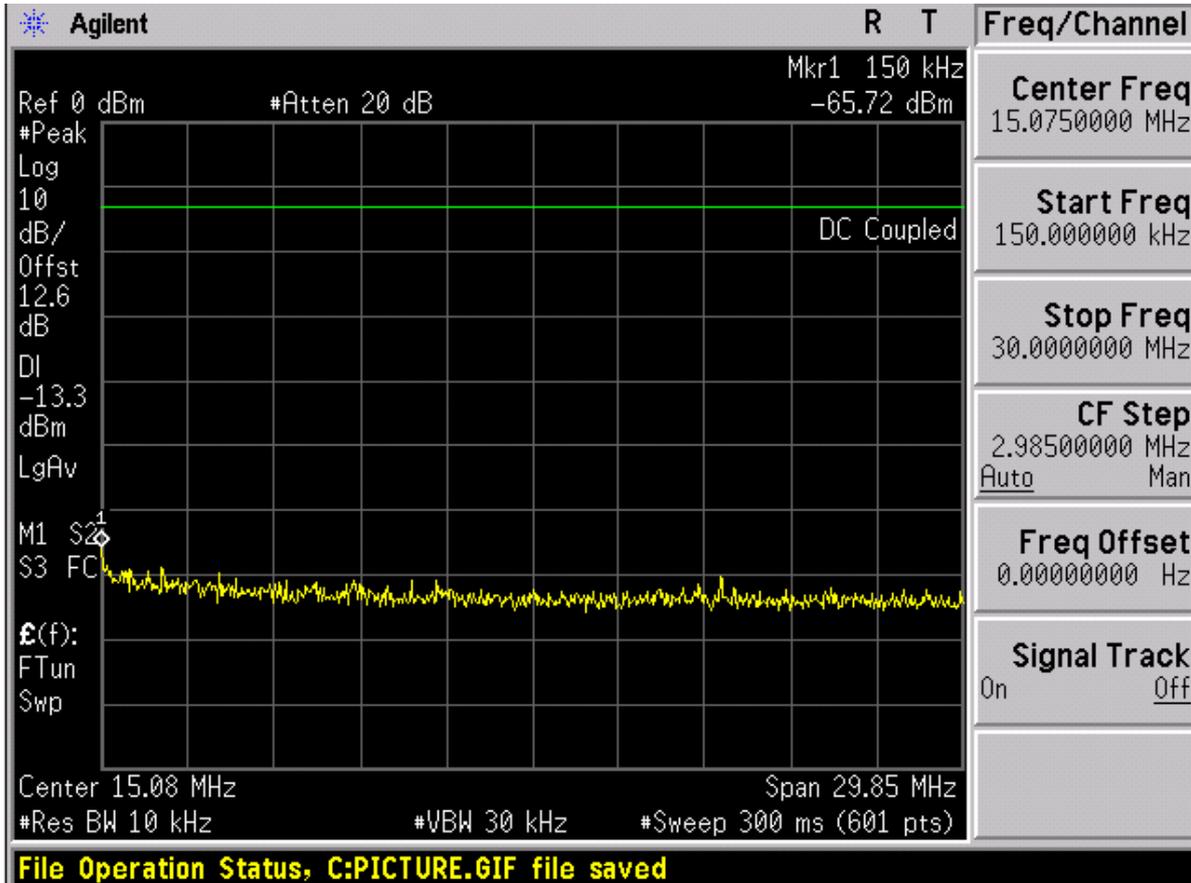


# Channel 0 9K~150KBaseTest0



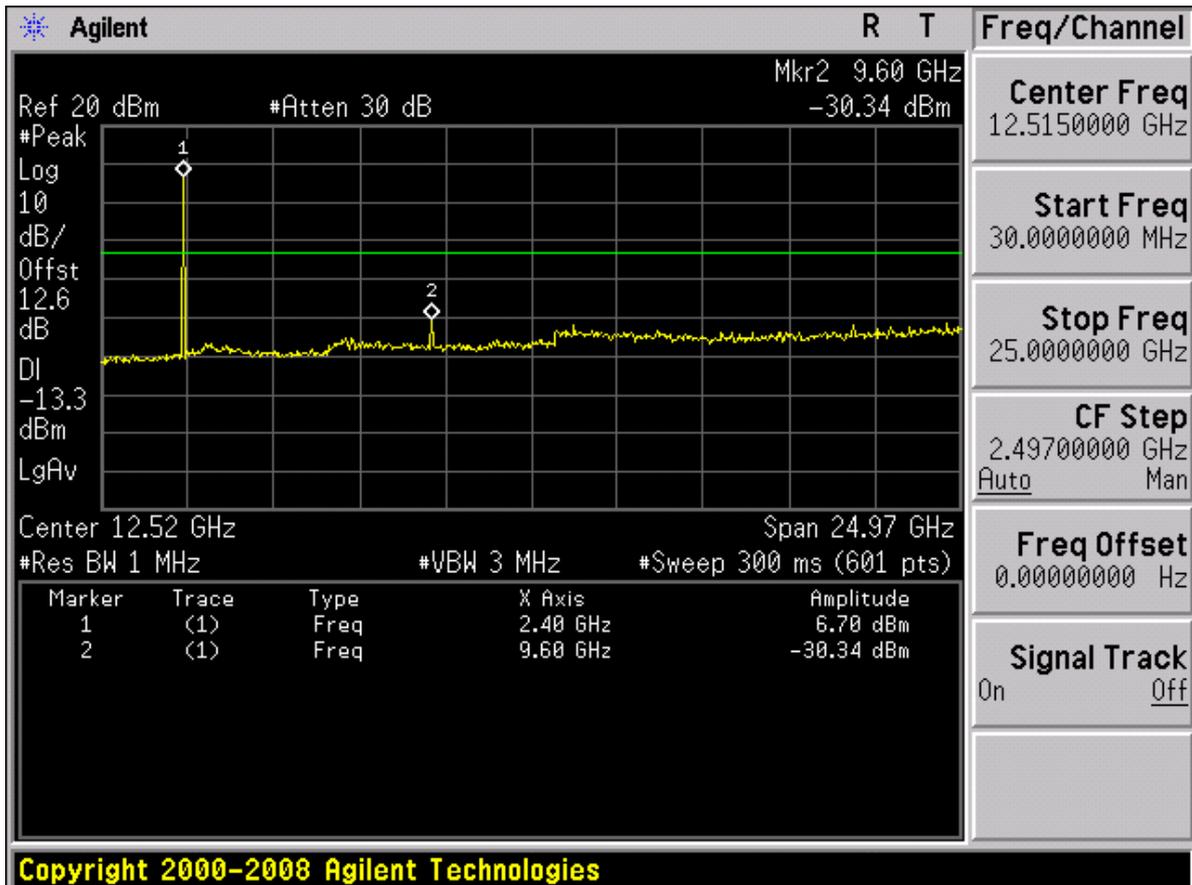


# 150K~30MBaseTest0





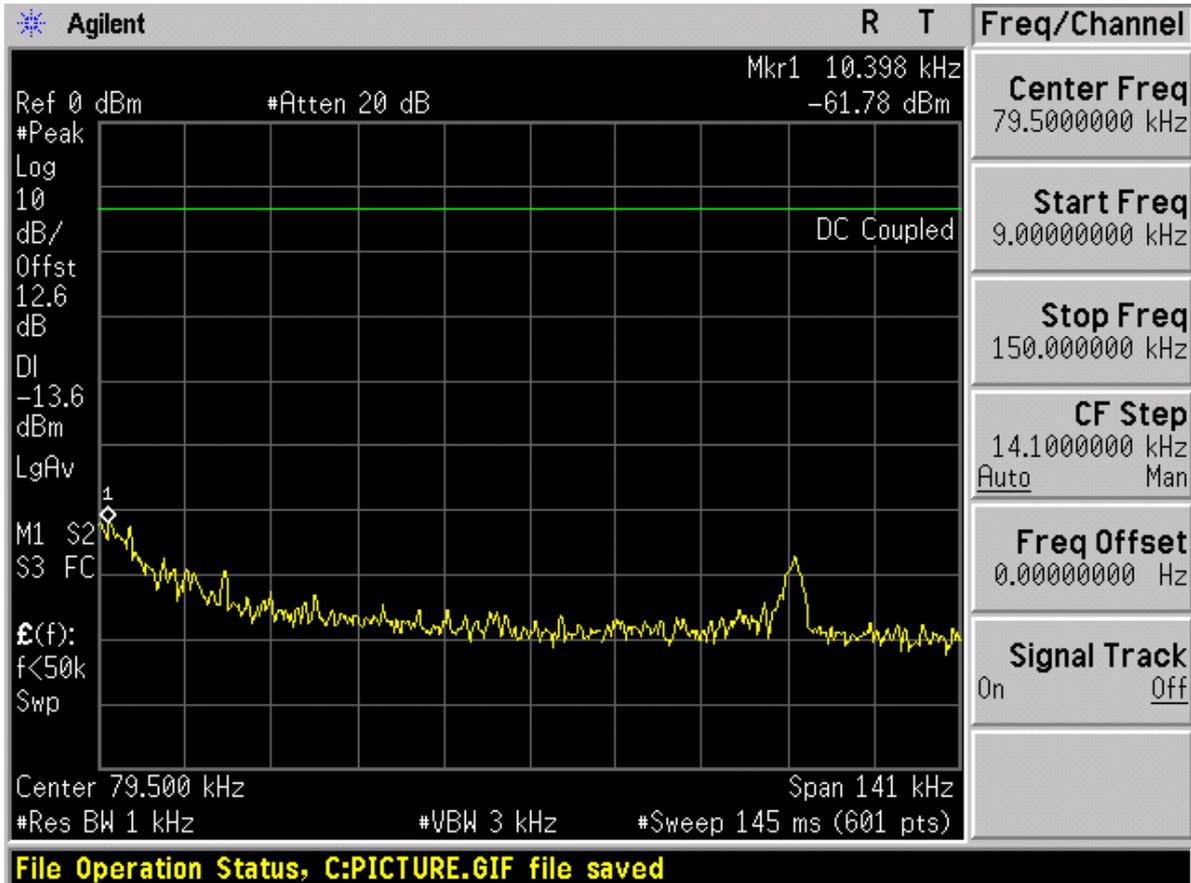
## 30M~25GBaseTest0





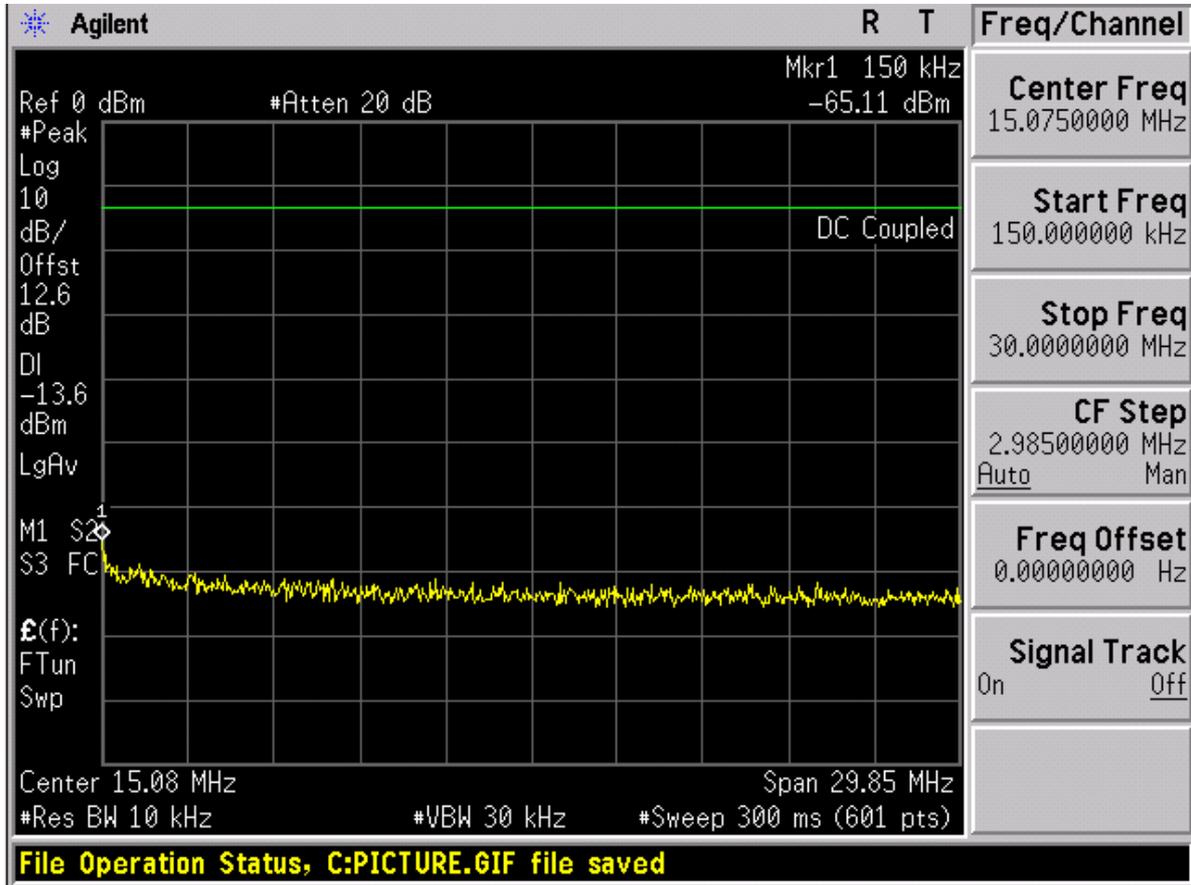
# Channel 40

## 9K~150KBaseTest40



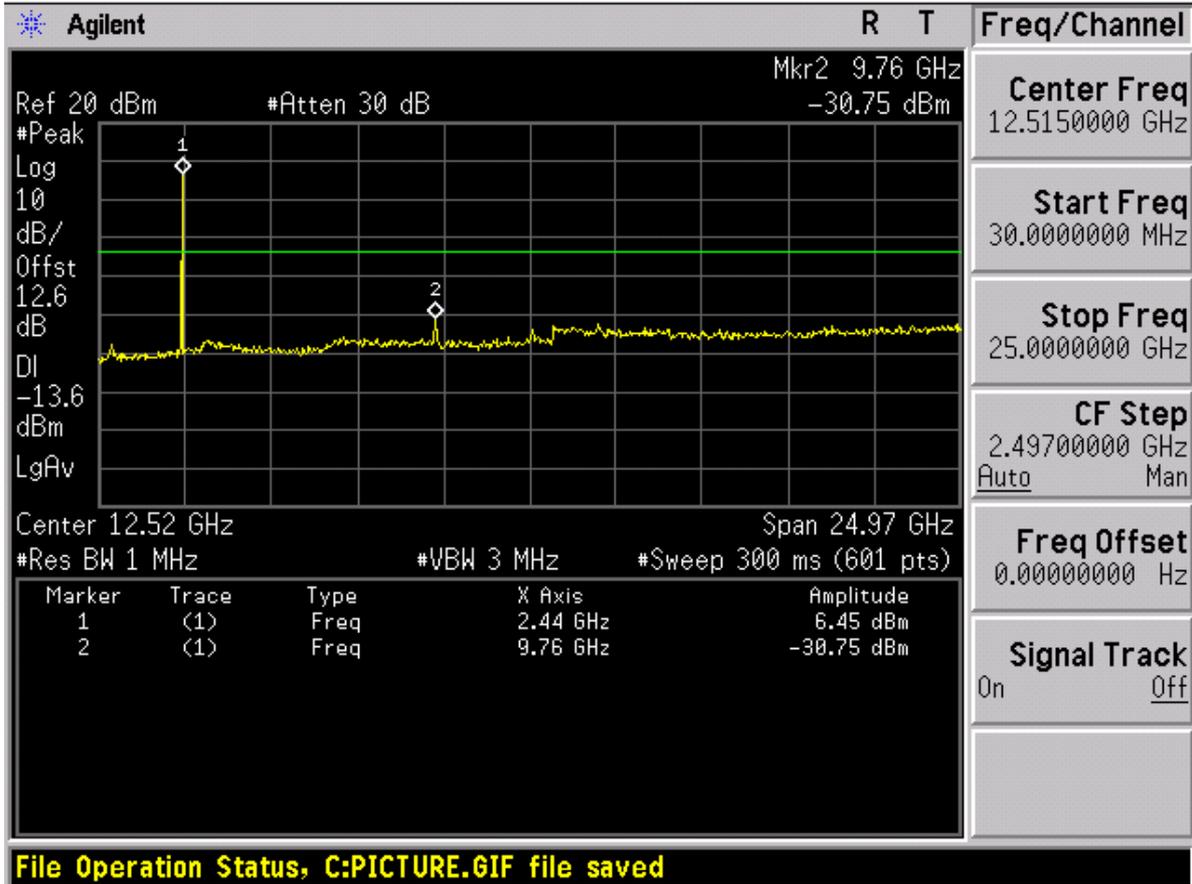


# 150K~30MBaseTest40





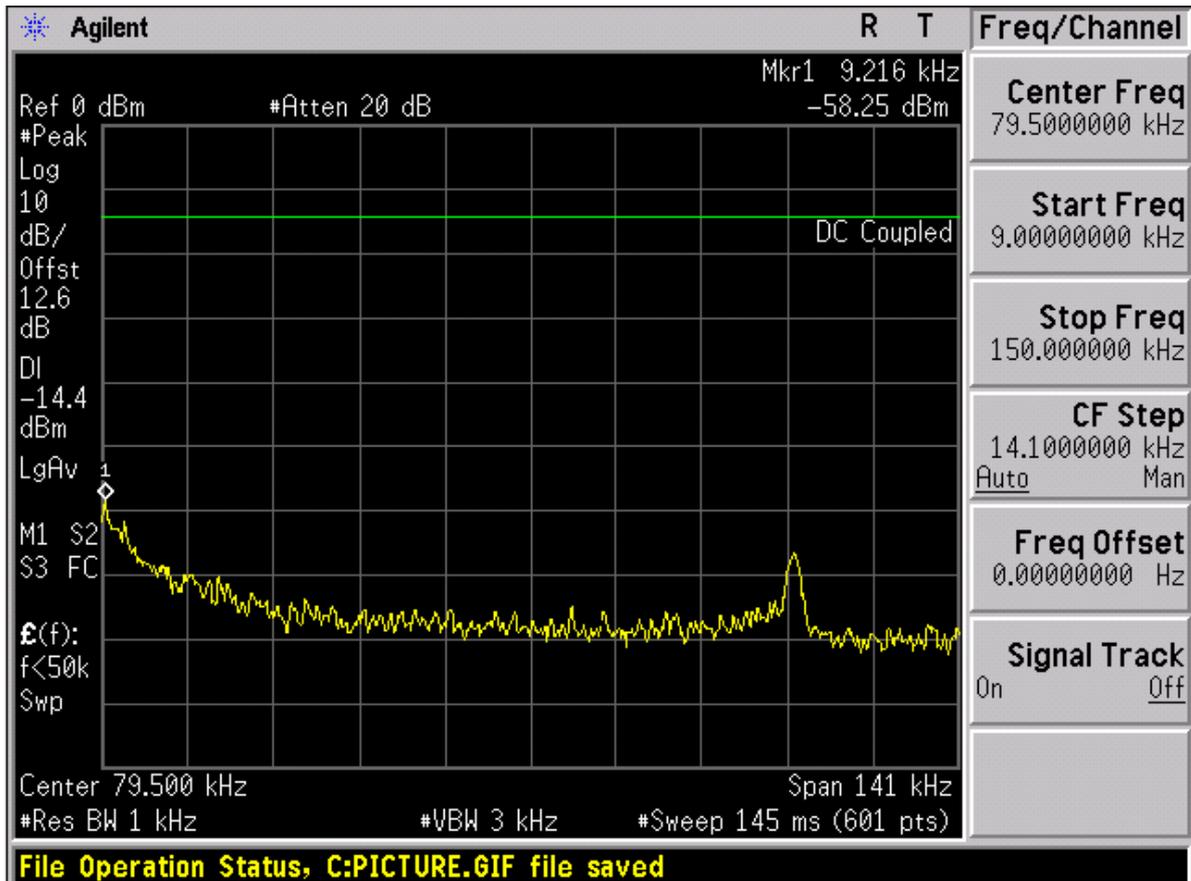
# 30M~25GBaseTest40





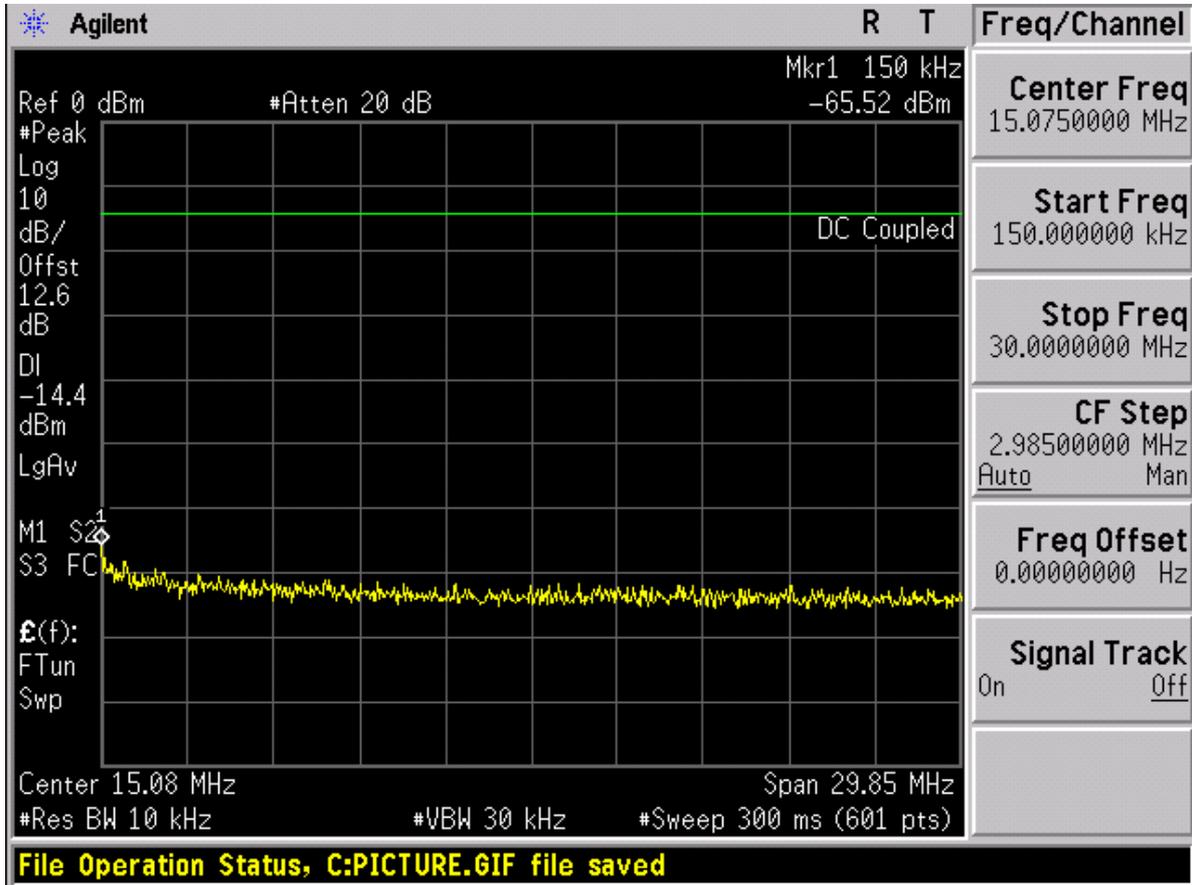
# Channel 78

## 9K~150KBaseTest78



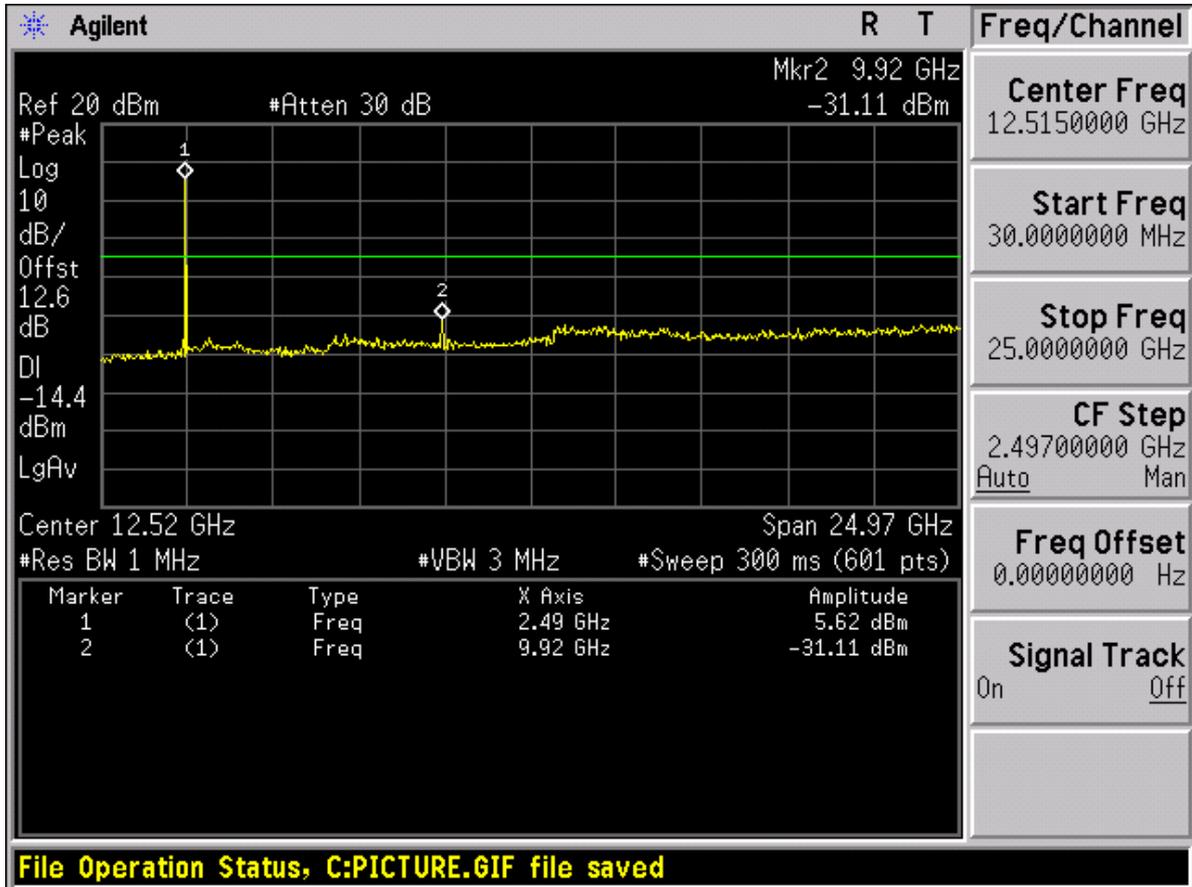


# 150K~30MBaseTest78





# 30M~25GBaseTest78





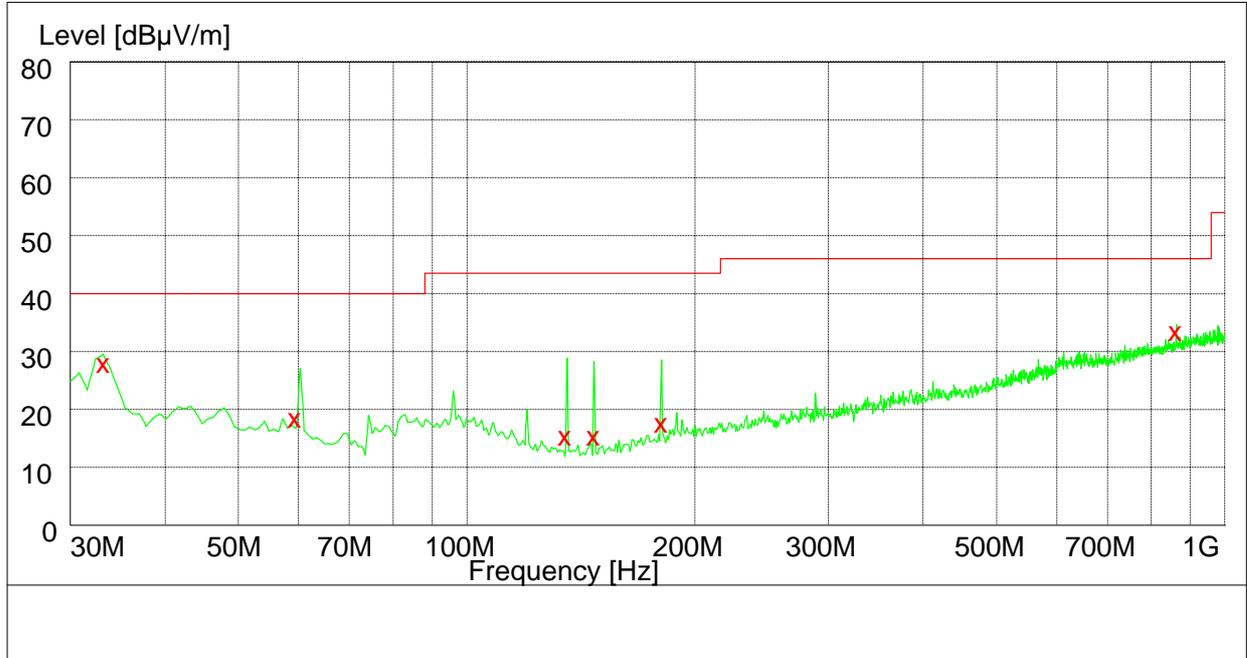
# Appendix H

## Radiated spurious emission

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



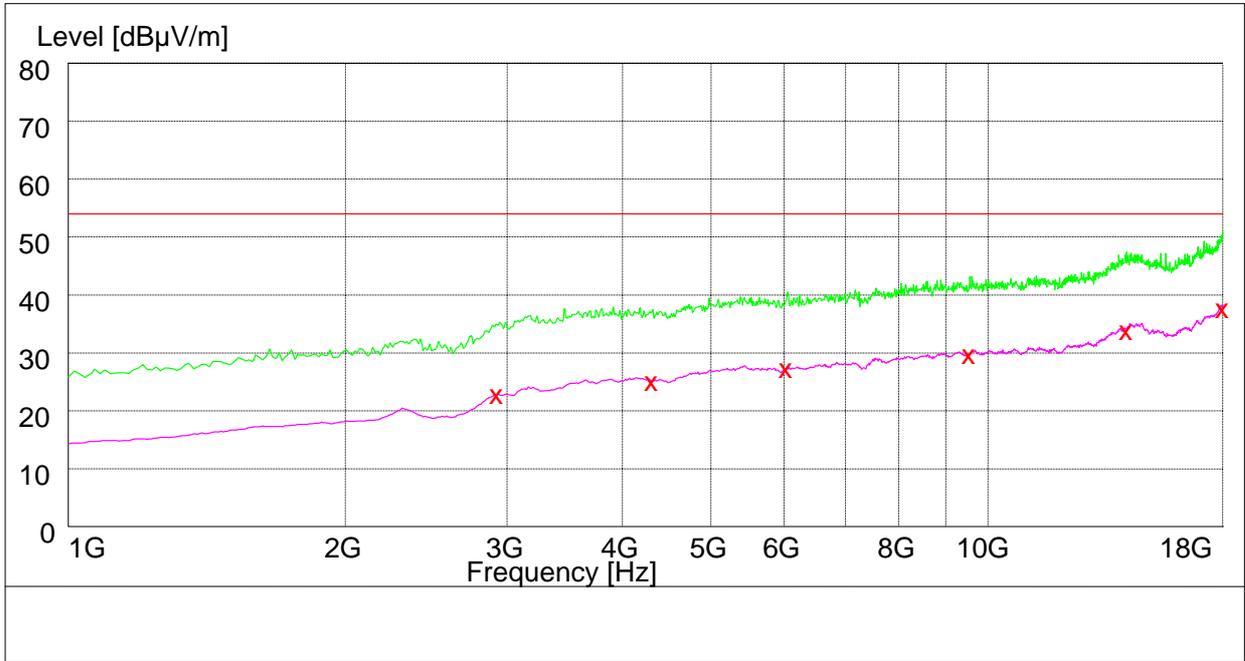
## Channel 0 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
33.180000	28.50	11.7	40.0	11.5	100.0	253.00	VERTICAL
59.400000	18.90	12.4	40.0	21.1	193.0	146.00	HORIZONTAL
134.940000	15.50	9.0	43.5	28.0	124.0	286.00	HORIZONTAL
147.060000	15.50	8.9	43.5	28.0	227.0	258.00	HORIZONTAL
180.720000	17.80	11.0	43.5	25.7	100.0	154.00	HORIZONTAL
862.560000	33.50	25.7	46.0	12.5	149.0	148.00	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
2925.500000	22.60	-9.5	54.0	31.4	200.0	114.00	HORIZONTAL
4313.000000	24.90	-5.3	54.0	29.1	181.0	192.00	HORIZONTAL
6042.500000	27.10	-1.5	54.0	26.9	179.0	69.00	VERTICAL
9548.000000	29.50	5.0	54.0	24.5	100.0	355.00	HORIZONTAL
14153.500000	33.70	11.3	54.0	20.3	200.0	169.00	VERTICAL
17996.500000	37.50	17.3	54.0	16.5	152.0	155.00	VERTICAL



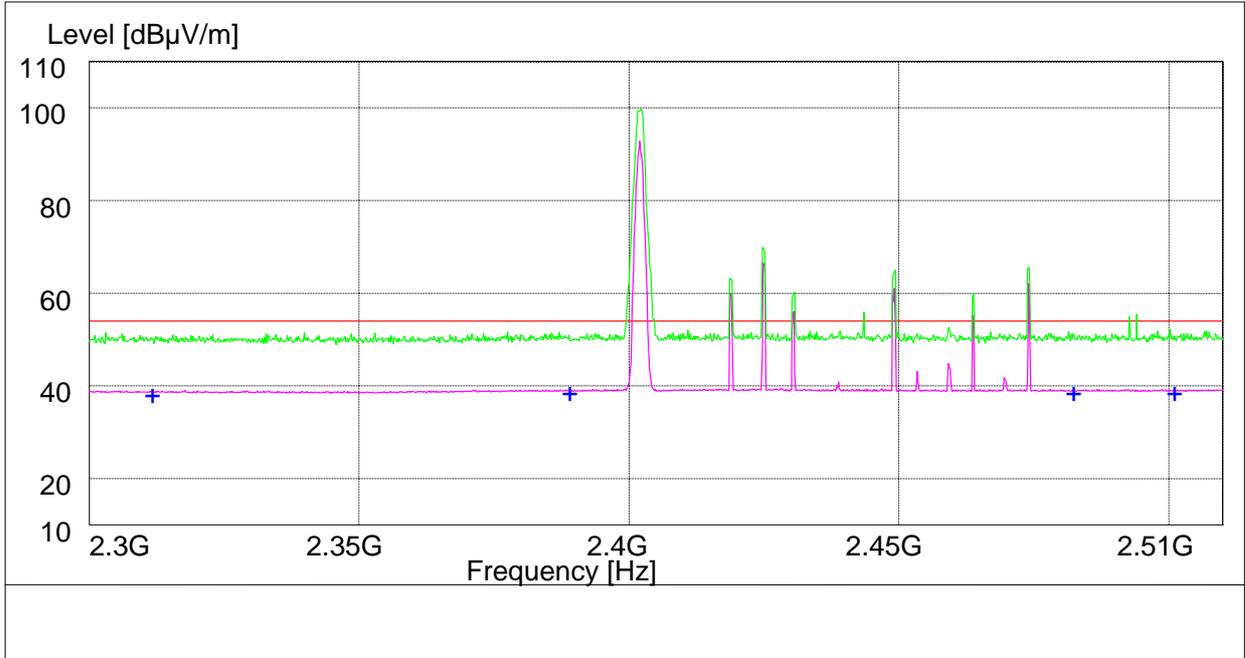
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# 18GHz to 26GHz

Note: No peak found in pre- test.



## 2GHz to 3GHz

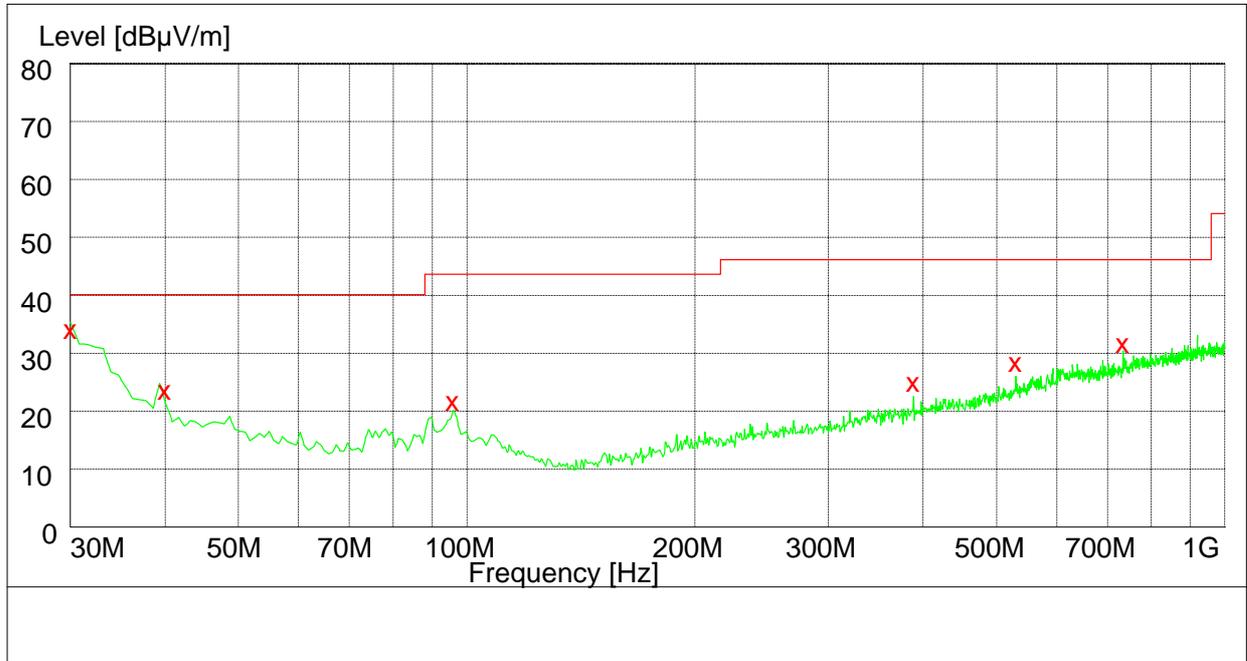


Note: The highest peak exceeds the limit line is carrier frequency.  
The bands from 2.39GHz to 2.4835GHz is out of the restricted bands.

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	38.00	33.3	54.0	16.0	100.0	341.00	HORIZONTAL
2390.000000	38.40	33.5	54.0	15.6	100.0	198.00	VERTICAL
2483.500000	38.30	33.7	54.0	15.7	100.0	45.00	VERTICAL
2500.000000	38.40	33.8	54.0	15.6	100.0	337.00	HORIZONTAL



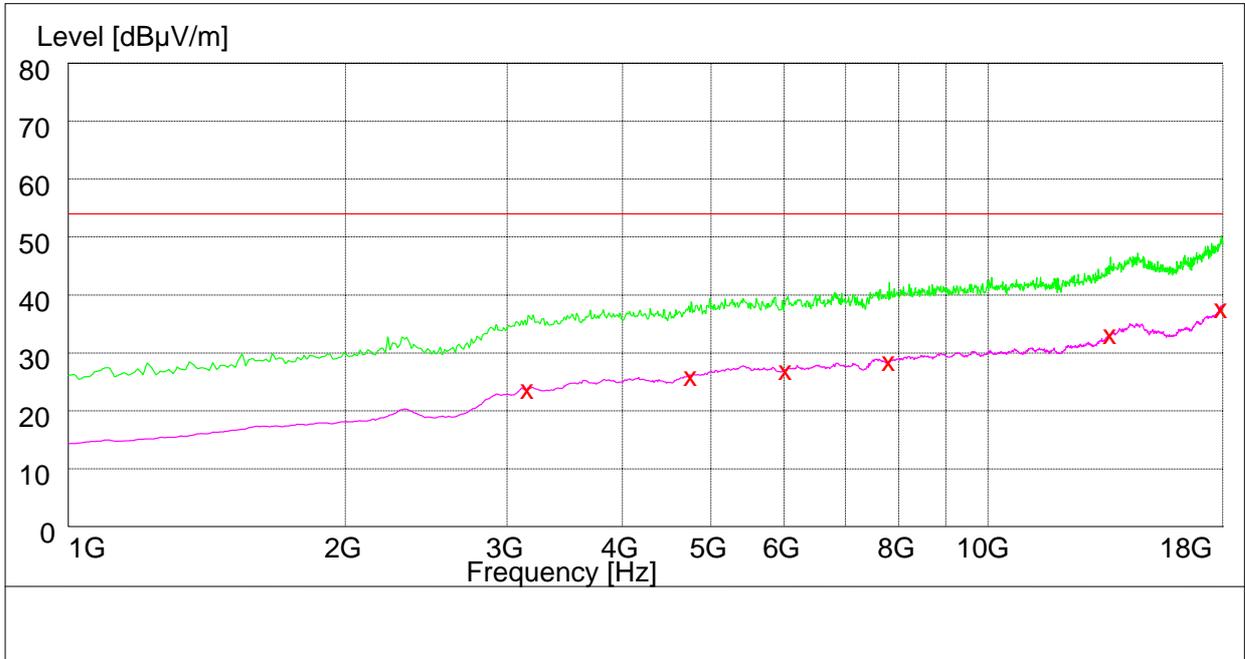
## Channel 40 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
30.060000	33.90	11.8	40.0	6.1	149.0	255.00	VERTICAL
40.020000	23.50	13.1	40.0	16.5	191.0	360.00	VERTICAL
96.000000	21.90	12.8	43.5	21.6	121.0	128.00	HORIZONTAL
388.800000	24.90	17.8	46.0	21.1	291.0	120.00	HORIZONTAL
530.160000	28.20	20.9	46.0	17.8	154.0	220.00	VERTICAL
734.340000	31.50	23.8	46.0	14.5	133.0	164.00	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
3162.500000	23.50	-8.4	54.0	30.5	106.0	97.00	VERTICAL
4754.500000	25.70	-4.2	54.0	28.3	123.0	357.00	VERTICAL
6030.500000	26.80	-1.5	54.0	27.2	158.0	81.00	VERTICAL
7816.500000	28.20	1.8	54.0	25.8	149.0	310.00	VERTICAL
13586.500000	32.90	10.2	54.0	21.1	133.0	34.00	VERTICAL
17943.000000	37.50	16.9	54.0	16.5	103.0	359.00	VERTICAL



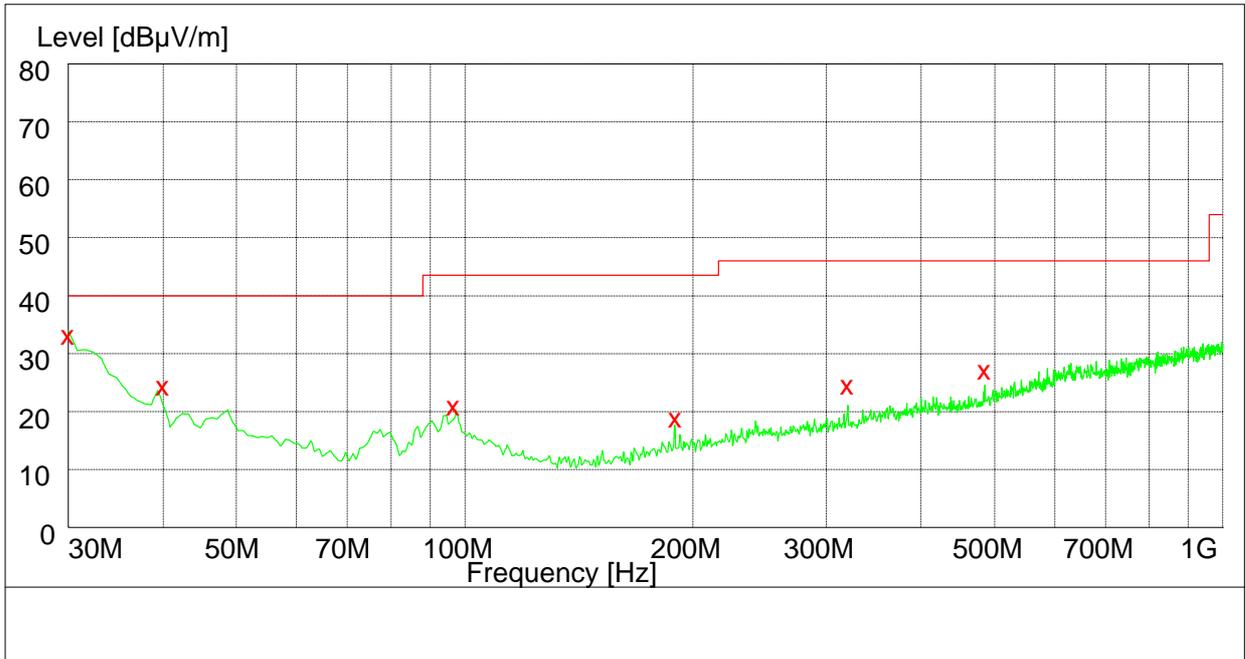
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# 18GHz to 26GHz

Note: No peak found in pre- test.



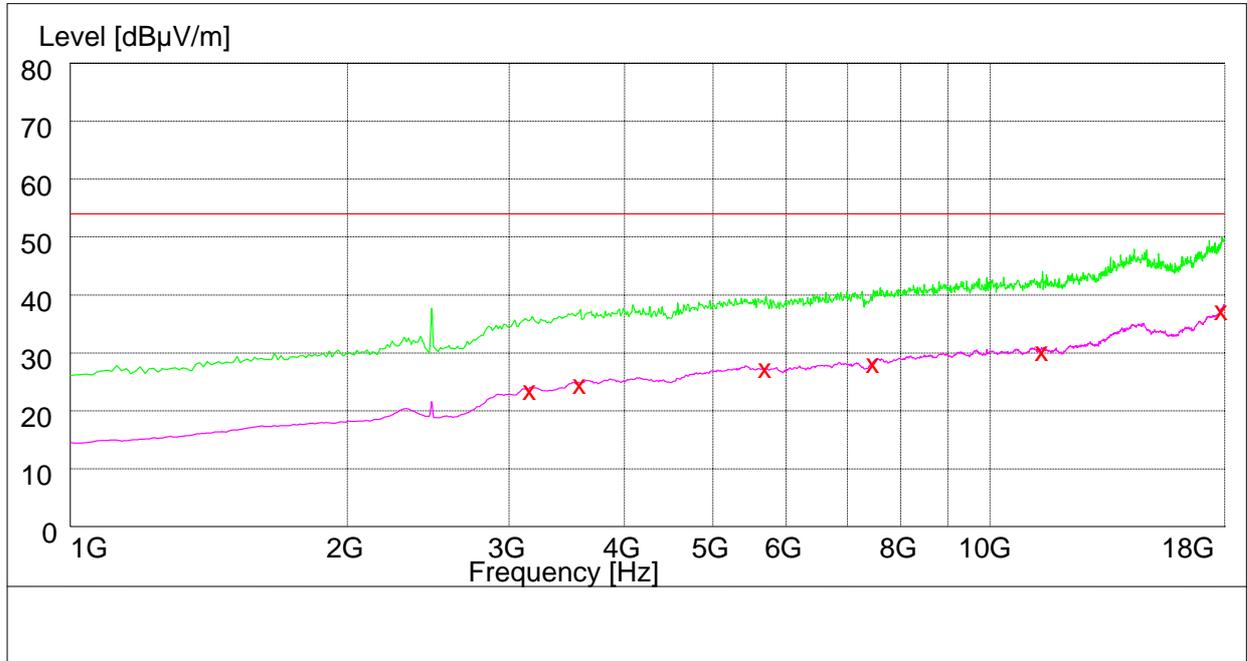
## Channel 78 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
30.000000	33.00	11.8	40.0	7.0	221.0	322.00	HORIZONTAL
40.020000	24.20	13.1	40.0	15.8	112.0	151.00	VERTICAL
96.720000	20.80	12.9	43.5	22.7	271.0	136.00	HORIZONTAL
189.600000	18.70	11.8	43.5	24.8	230.0	264.00	HORIZONTAL
319.980000	24.40	16.0	46.0	21.6	237.0	103.00	VERTICAL
485.820000	27.00	19.8	46.0	19.0	151.0	358.00	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
3157.500000	23.40	-8.3	54.0	30.6	135.0	24.00	VERTICAL
3586.000000	24.40	-7.0	54.0	29.6	100.0	328.00	HORIZONTAL
5704.000000	27.10	-2.1	54.0	26.9	111.0	69.00	VERTICAL
7469.500000	28.00	1.3	54.0	26.0	137.0	75.00	HORIZONTAL
11405.000000	30.00	7.0	54.0	24.0	200.0	359.00	VERTICAL
17872.000000	37.10	16.5	54.0	16.9	158.0	259.00	VERTICAL



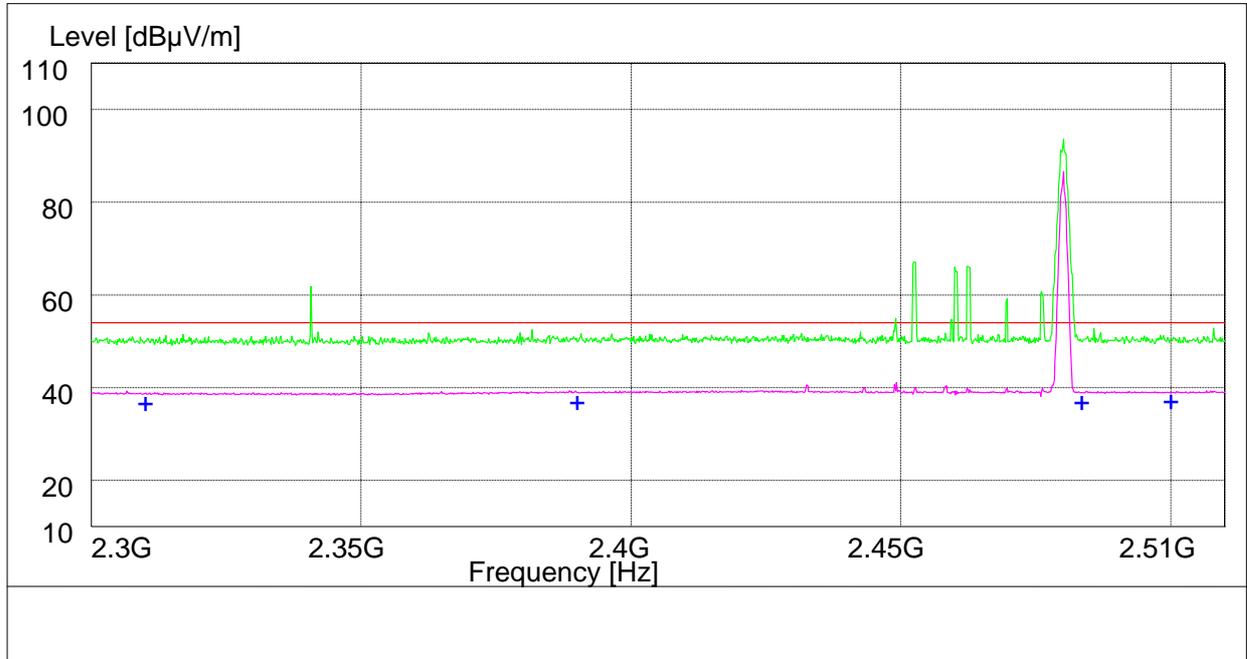
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# 18GHz to 26GHz

Note: No peak found in pre- test.



## 2GHz to 3GHz



Note: The peak exceeds the limit line is carrier frequency.  
The bands from 2.39GHz to 2.4835GHz is out of the restricted bands.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	38.30	33.7	54.0	15.7	120.0	285.00	VERTICAL
2390.000000	38.60	33.7	54.0	15.4	108.0	128.00	HORIZONTAL
2483.500000	38.50	33.8	54.0	15.5	158.0	175.00	VERTICAL
2500.000000	38.80	33.8	54.0	15.2	100.0	237.00	HORIZONTAL



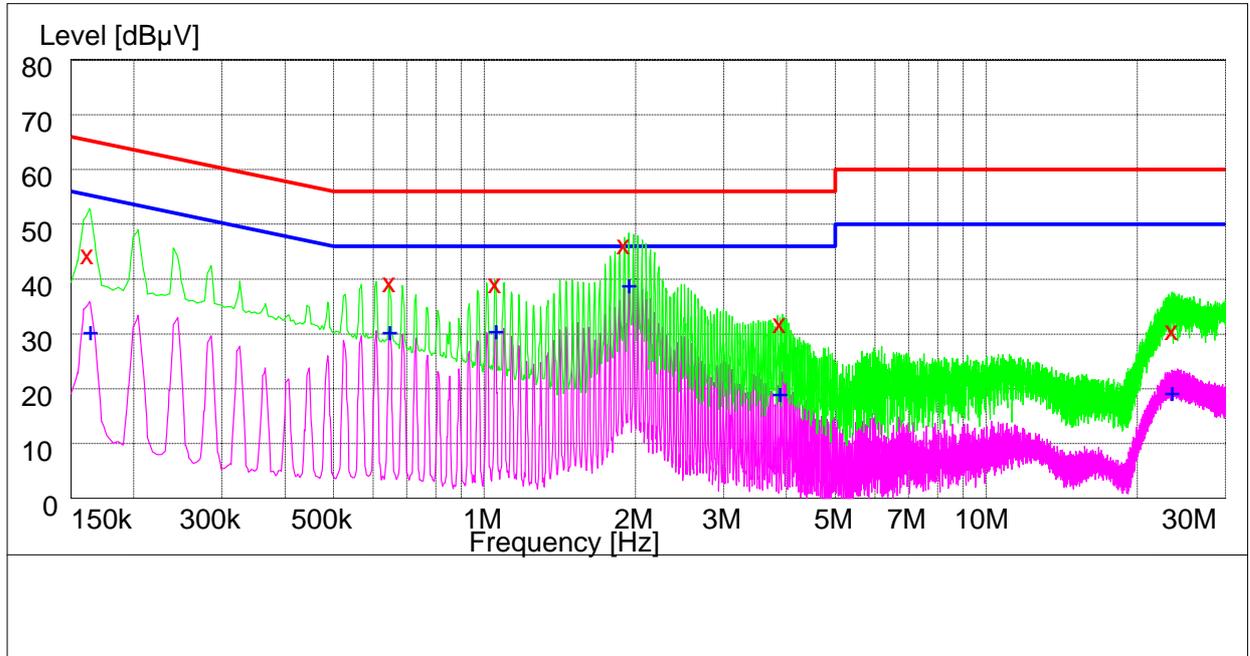
# Appendix I

## Conducted Emission at Power Port

According to FCC Part 15.207



## Channel 40



### MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.162000	44.40	10.1	65	20.6	N	FLO
0.648000	39.30	10.1	56	16.7	N	FLO
1.052000	39.00	10.1	56	17.0	N	FLO
1.900000	46.20	10.1	56	9.8	N	FLO
3.886000	31.80	10.2	56	24.2	N	FLO
23.480000	30.60	10.4	60	29.4	N	FLO

### MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.164000	30.30	10.1	55	24.7	N	FLO
0.648000	30.40	10.1	46	15.6	N	FLO
1.054000	30.60	10.1	46	15.4	N	FLO
1.944000	38.80	10.1	46	7.2	N	FLO
3.888000	19.10	10.2	46	26.9	N	FLO
23.464000	19.30	10.4	50	30.7	N	FLO



# Appendix J

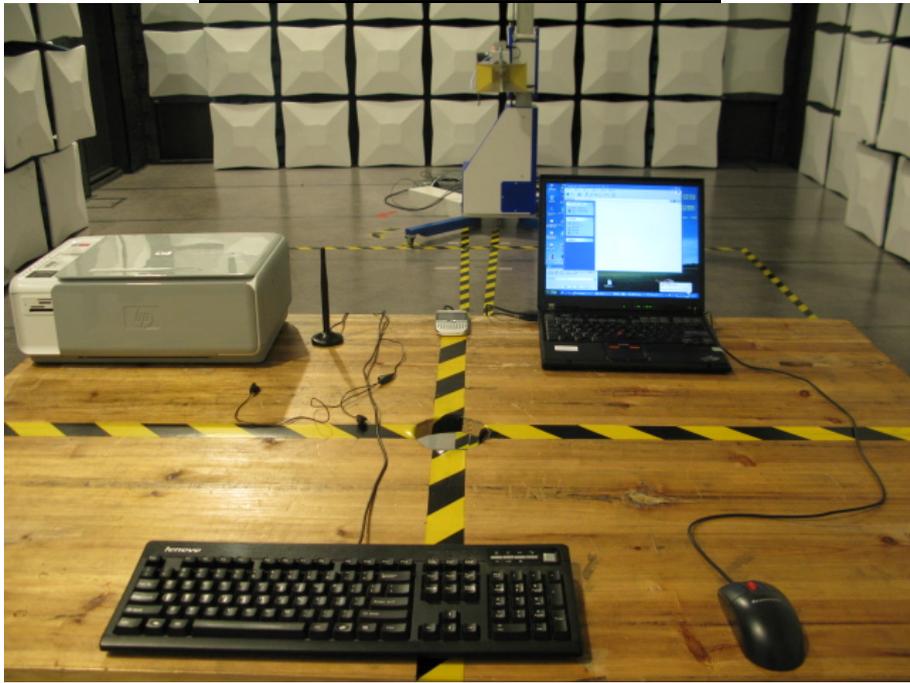
## Photos of Test Setup



# 1 Radiated Spurious Emissions



Radiated Spurious Emission (below 1GHz)

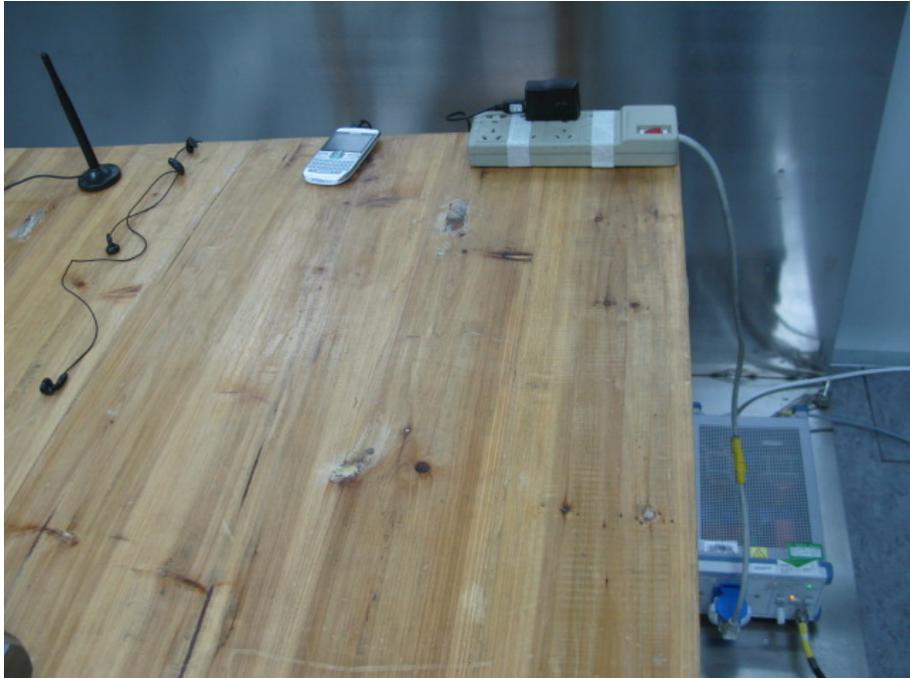


Radiated Spurious Emission (1GHz to18GHz)



Radiated Spurious Emission (above 18GHz)

## 2 Conducted Emissions



Conducted Emissions for AC Ports