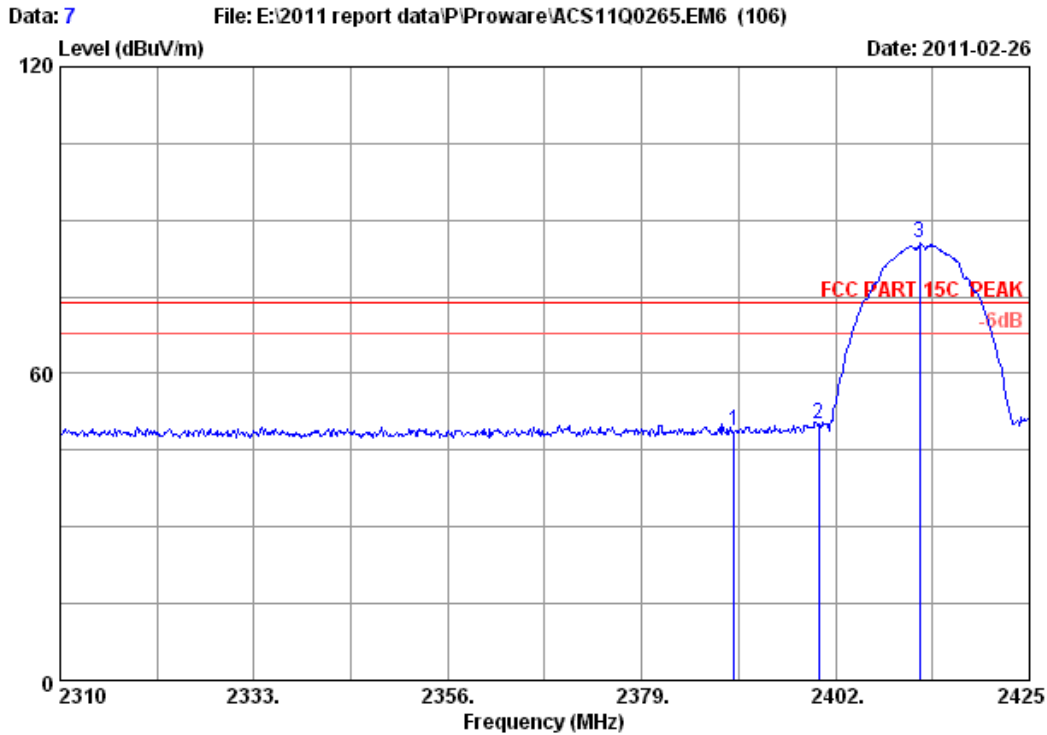


Site no. : RF Chamber Data no. : 6
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH1 2412MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2374.170	29.43	7.35	36.62	36.95	37.11	54.00	16.89	Average
2	2390.000	29.44	7.39	36.62	36.45	36.66	54.00	17.34	Average
3	2400.000	29.44	7.43	36.62	53.25	53.50	54.00	0.50	Average
4	2411.430	29.45	7.43	36.62	94.44	94.70	54.00	-40.70	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

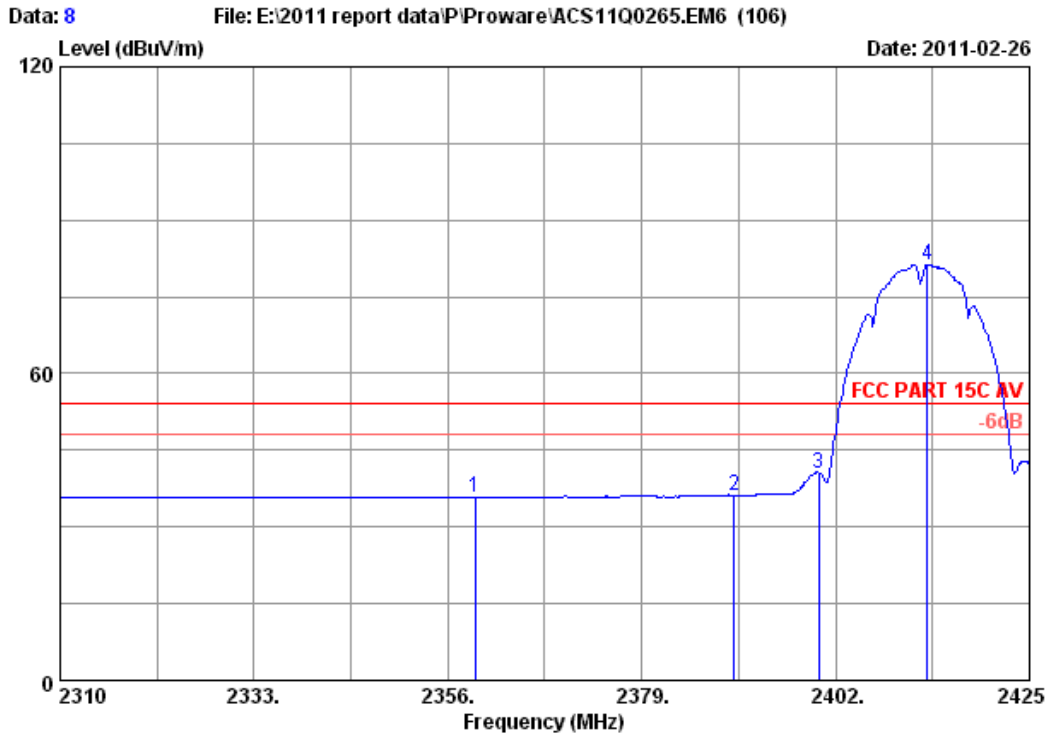


Site no. : RF Chamber Data no. : 7
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH1 2412MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	48.56	48.77	74.00	25.23	Peak
2	2400.000	29.44	7.43	36.62	50.03	50.28	74.00	23.72	Peak
3	2412.000	29.45	7.43	36.62	85.19	85.45	74.00	-11.45	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

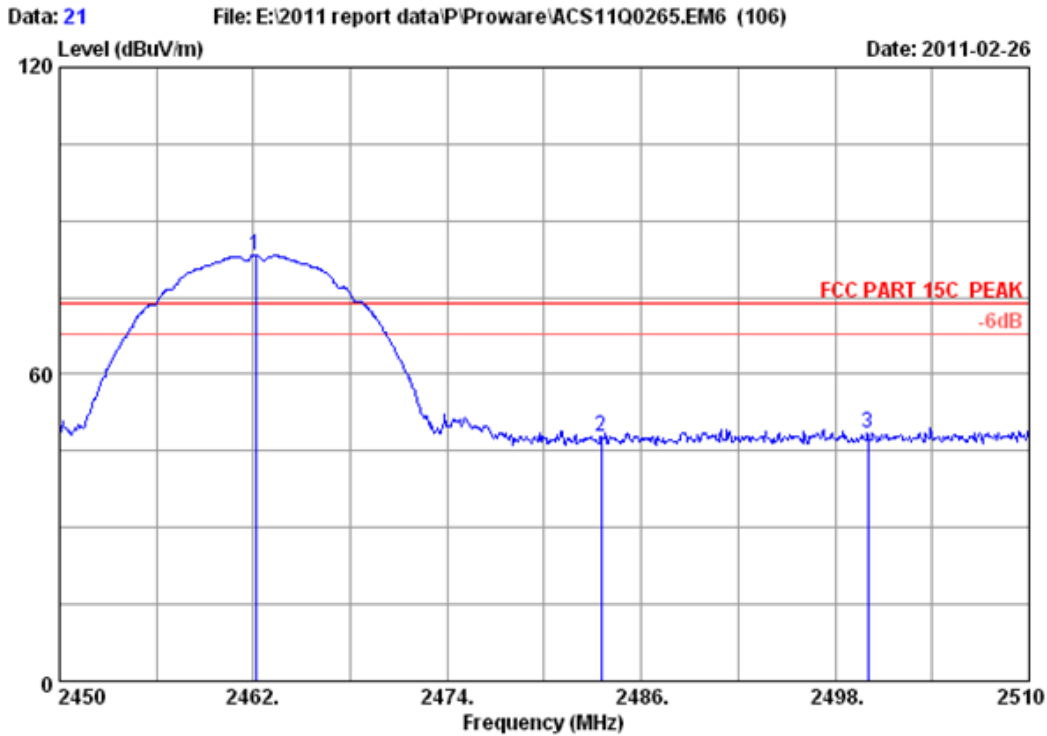


Site no. : RF Chamber Data no. : 8
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH1 2412MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2359.220	29.42	7.35	36.63	35.68	35.82	54.00	18.18	Average
2	2390.000	29.44	7.39	36.62	36.04	36.25	54.00	17.75	Average
3	2400.000	29.44	7.43	36.62	40.35	40.60	54.00	13.40	Average
4	2412.925	29.45	7.43	36.62	81.08	81.34	54.00	-27.34	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

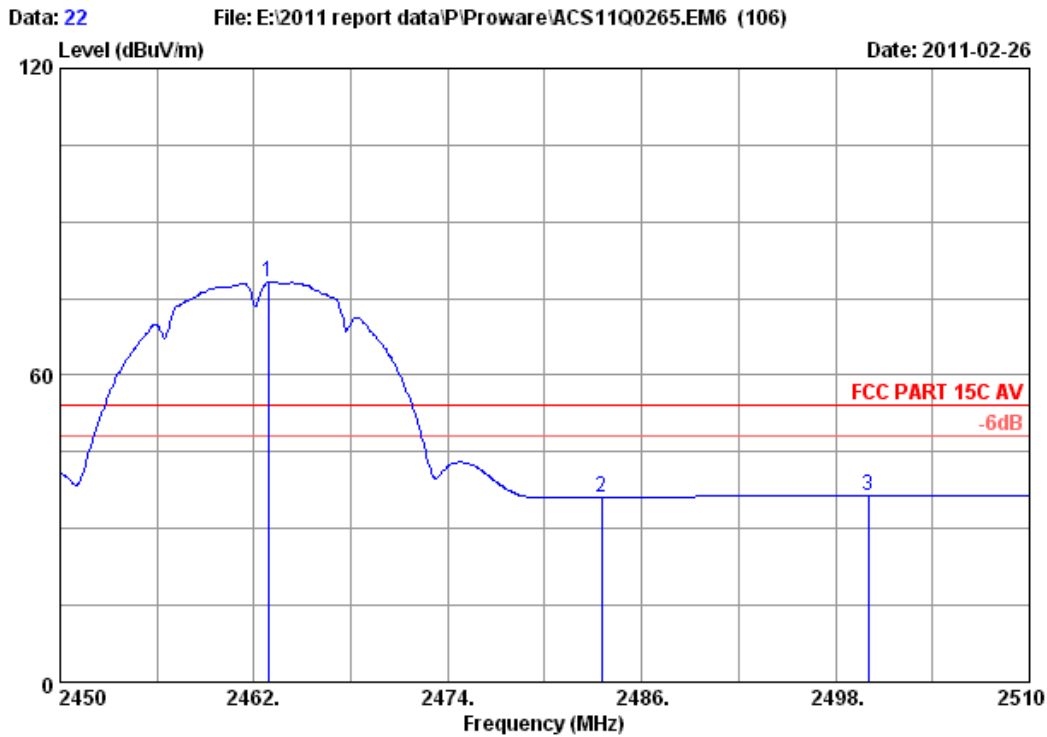


Site no. : RF Chamber Data no. : 21
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH11 2462MHz Tx Mode
 M/N : PW-DN523

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.120	29.48	7.54	36.61	82.94	83.35	74.00	-9.35	Peak
2	2483.500	29.49	7.58	36.60	47.49	47.96	74.00	26.04	Peak
3	2500.000	29.50	7.62	36.60	47.81	48.33	74.00	25.67	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

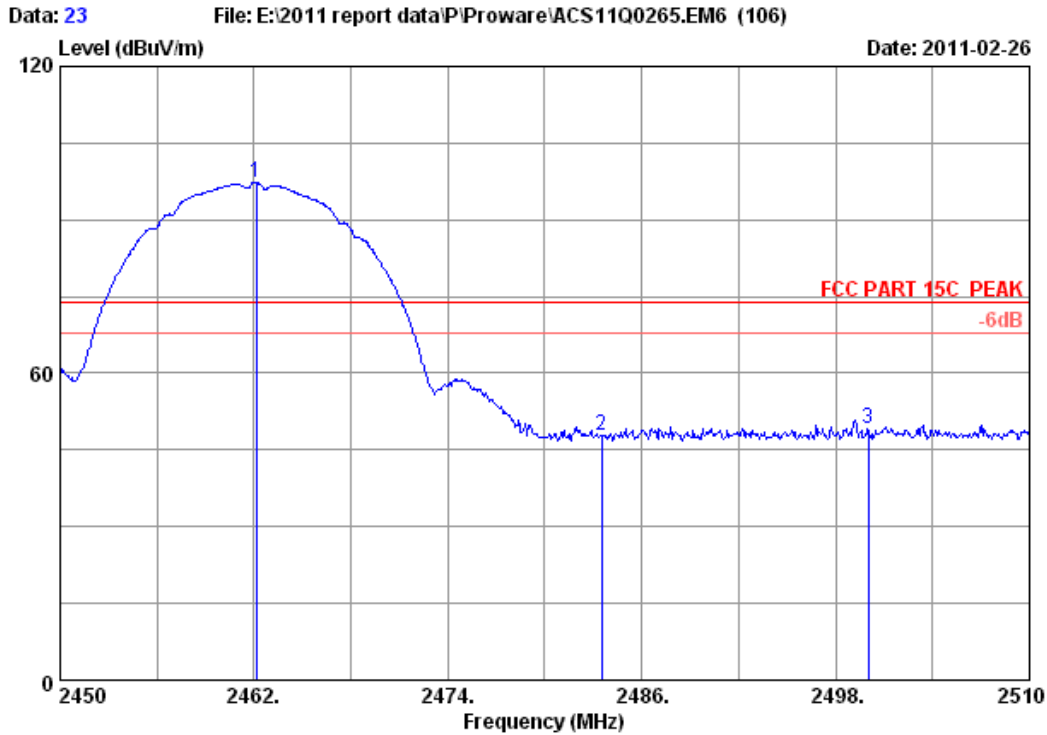


Site no. : RF Chamber Data no. : 22
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH11 2462MHz Tx Mode
 M/N : PW-DN523

	Freq.	Ant.	Cable	Amp.	Reading	Emission	Limits	Margin	Remark
	(MHz)	(dB/m)	loss	Factor	(dBuV)	Level	(dBuV/m)	(dB)	
			(dB)	(dB)		(dBuV/m)	(dBuV/m)		
1	2462.900	29.48	7.54	36.61	77.82	78.23	54.00	-24.23	Average
2	2483.500	29.49	7.58	36.60	35.74	36.21	54.00	17.79	Average
3	2500.000	29.50	7.62	36.60	35.88	36.40	54.00	17.60	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

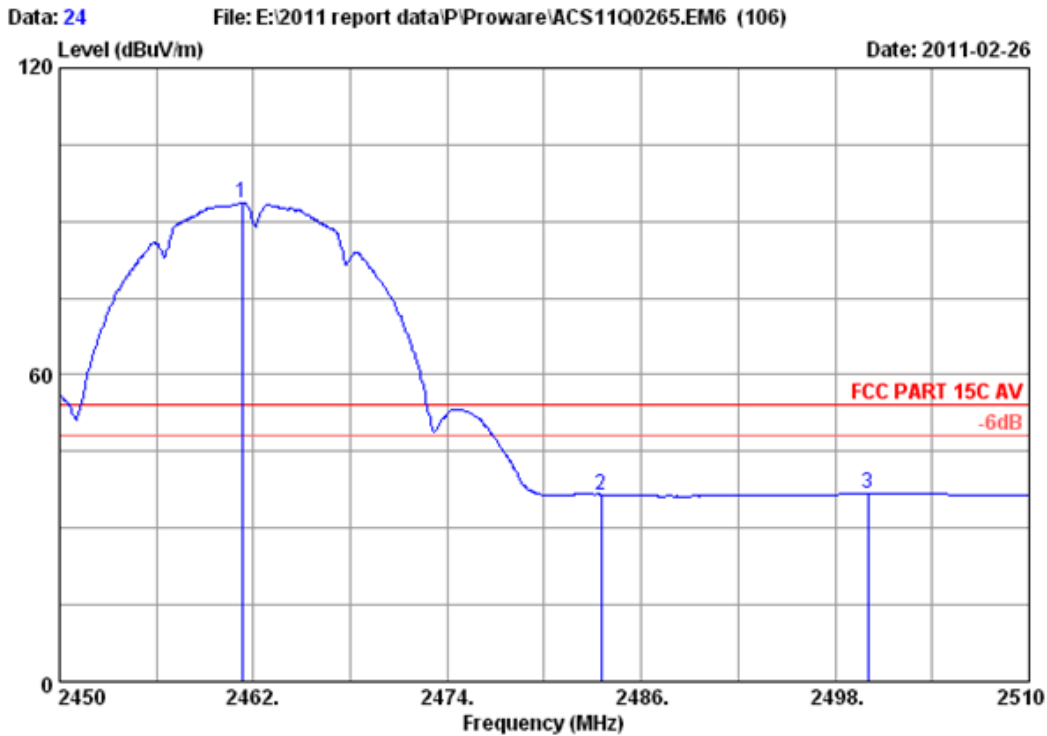


Site no. : RF Chamber Data no. : 23
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH11 2462MHz Tx Mode
 M/N : PW-DN523

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.120	29.48	7.54	36.61	96.86	97.27	74.00	-23.27	Peak
2	2483.500	29.49	7.58	36.60	47.34	47.81	74.00	26.19	Peak
3	2500.000	29.50	7.62	36.60	48.60	49.12	74.00	24.88	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

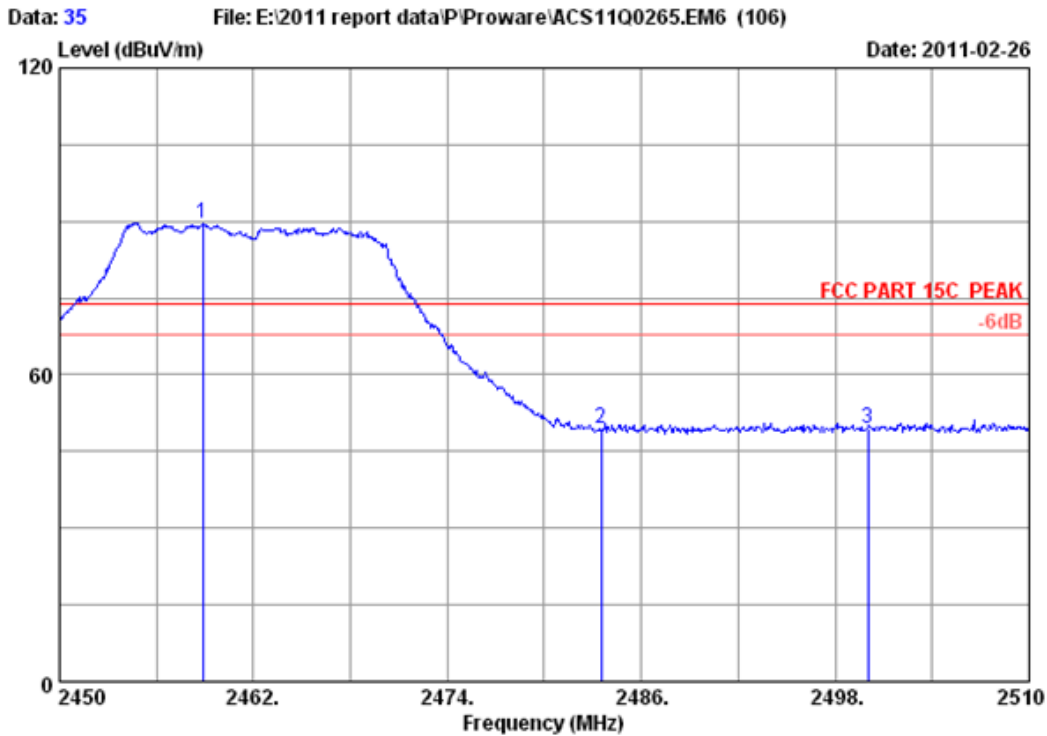


Site no. : RF Chamber Data no. : 24
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11b CH11 2462MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.280	29.48	7.54	36.61	93.27	93.68	54.00	-39.68	Average
2	2483.500	29.49	7.58	36.60	36.13	36.60	54.00	17.40	Average
3	2500.000	29.50	7.62	36.60	36.21	36.73	54.00	17.27	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

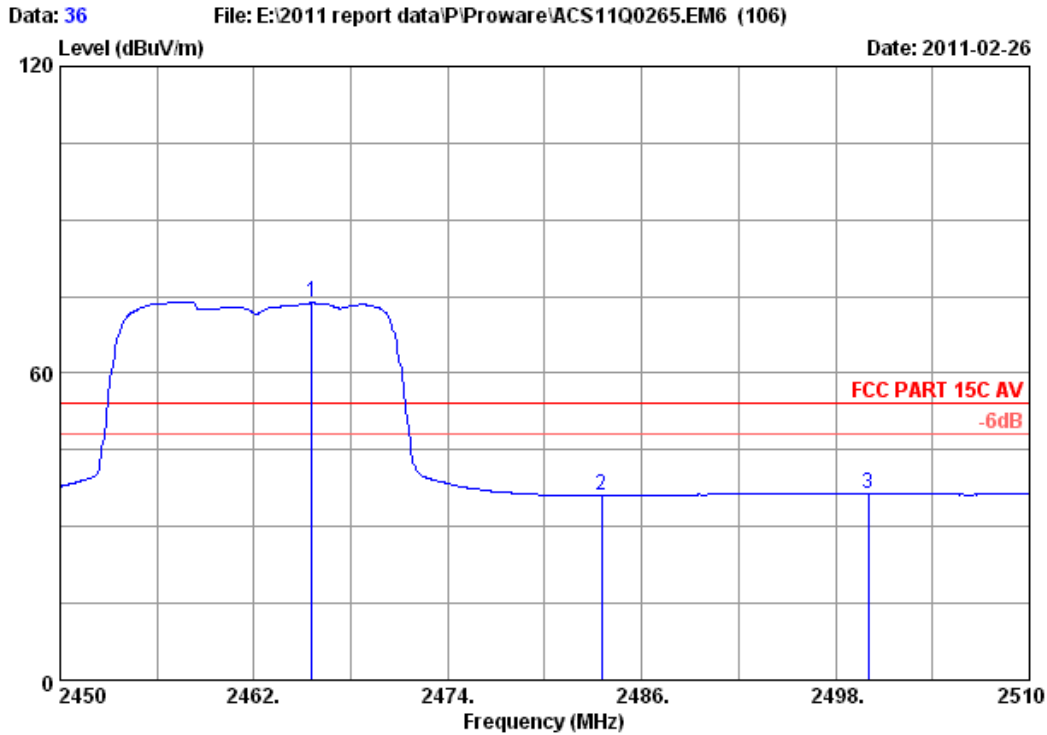


Site no. : RF Chamber Data no. : 35
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH11 2462MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2458.880	29.48	7.54	36.61	89.07	89.48	74.00	-15.48	Peak
2	2483.500	29.49	7.58	36.60	48.89	49.36	74.00	24.64	Peak
3	2500.000	29.50	7.62	36.60	48.91	49.43	74.00	24.57	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

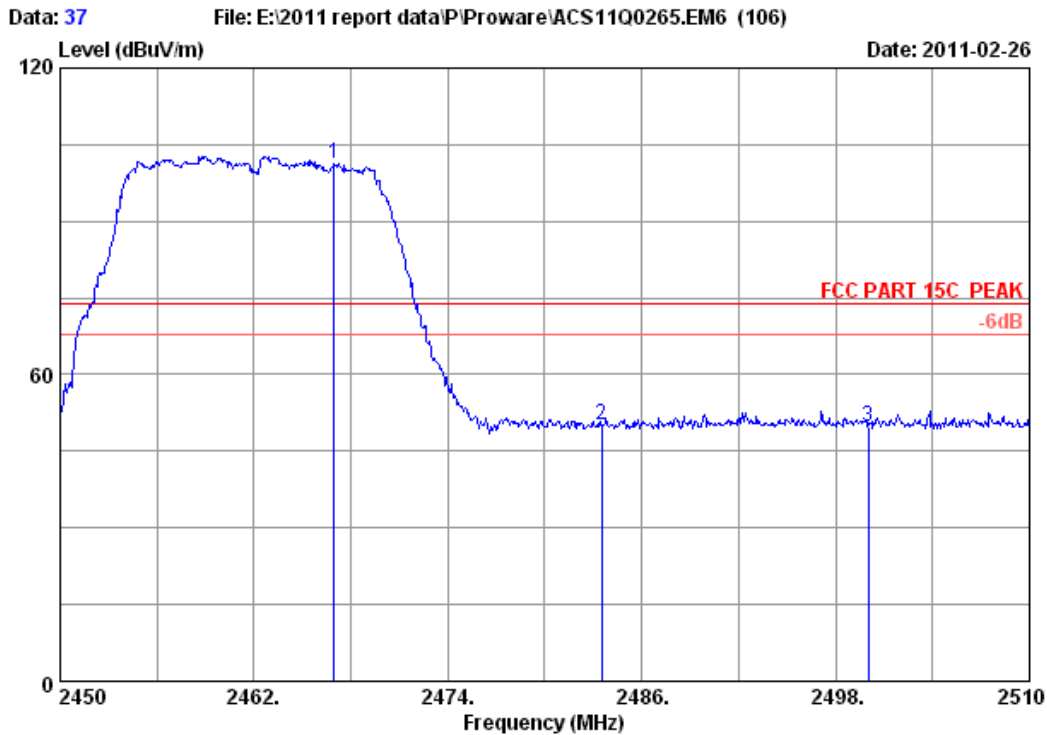


Site no. : RF Chamber Data no. : 36
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH11 2462MHz Tx Mode
 M/N : PW-DN523

	Freq.	Ant.	Cable	Amp.	Reading	Emission	Limits	Margin	Remark
	(MHz)	(dB/m)	loss	Factor	(dBuV)	Level	(dBuV/m)	(dB)	
			(dB)	(dB)		(dBuV/m)	(dBuV/m)		
1	2465.600	29.48	7.54	36.61	73.32	73.73	54.00	-19.73	Average
2	2483.500	29.49	7.58	36.60	35.71	36.18	54.00	17.82	Average
3	2500.000	29.50	7.62	36.60	35.80	36.32	54.00	17.68	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

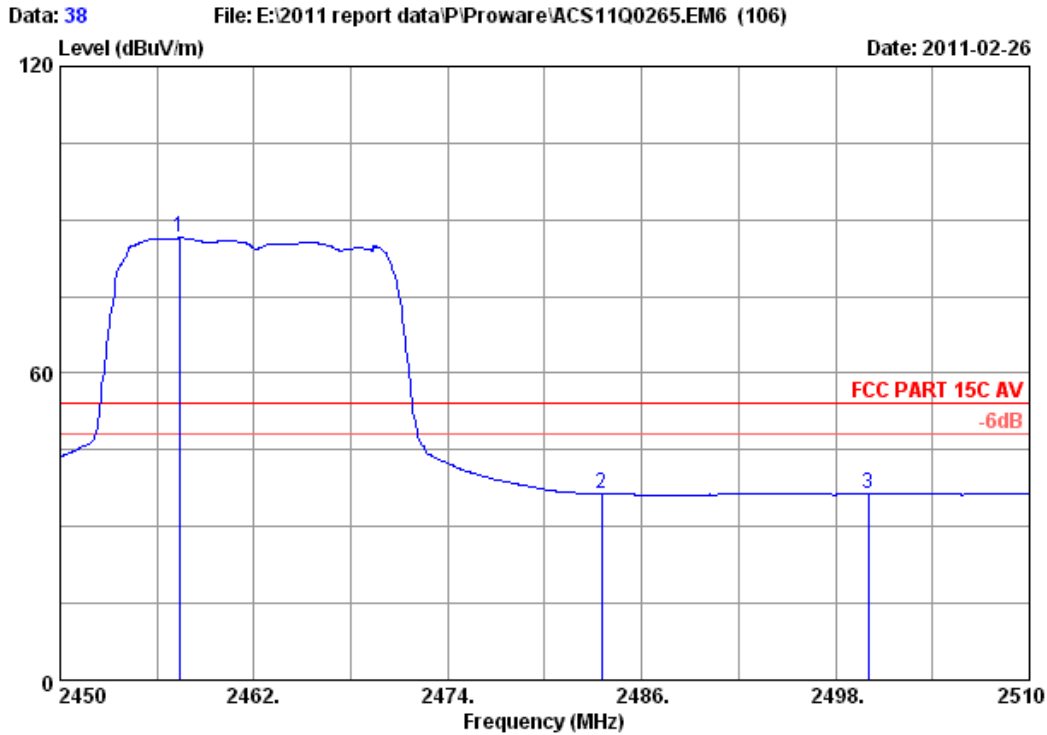


Site no. : RF Chamber Data no. : 37
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH11 2462MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2466.980	29.48	7.54	36.60	100.86	101.28	74.00	-27.28	Peak
2	2483.500	29.49	7.58	36.60	49.54	50.01	74.00	23.99	Peak
3	2500.000	29.50	7.62	36.60	49.30	49.82	74.00	24.18	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

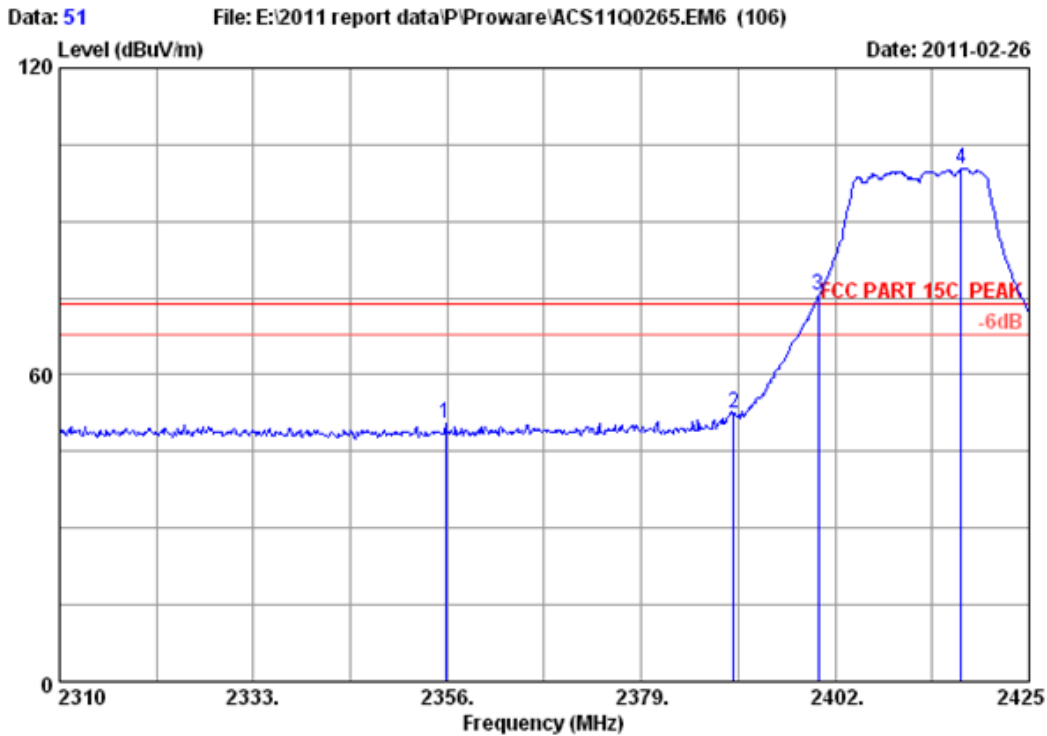


Site no. : RF Chamber Data no. : 38
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH11 2462MHz Tx Mode
 M/N : PW-DN523

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2457.380	29.48	7.50	36.61	86.06	86.43	54.00	-32.43	Average
2	2483.500	29.49	7.58	36.60	35.93	36.40	54.00	17.60	Average
3	2500.000	29.50	7.62	36.60	35.89	36.41	54.00	17.59	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

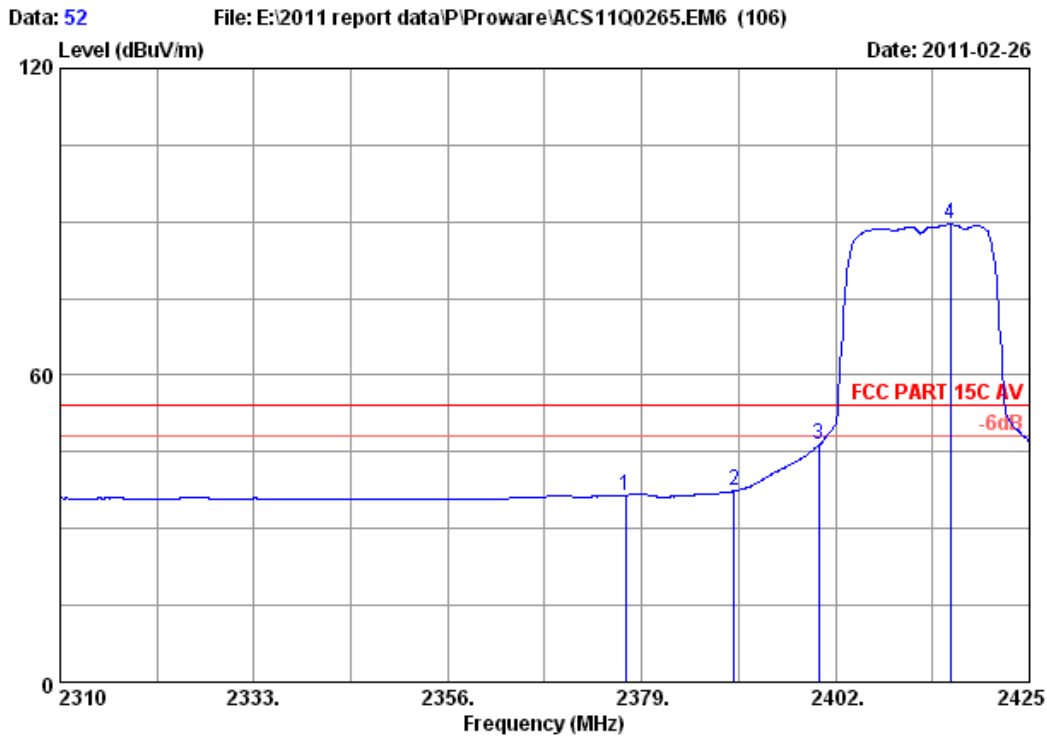


Site no. : RF Chamber Data no. : 51
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH1 2412MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2355.770	29.42	7.31	36.63	50.34	50.44	74.00	23.56	Peak
2	2390.000	29.44	7.39	36.62	52.34	52.55	74.00	21.45	Peak
3	2400.000	29.44	7.43	36.62	75.33	75.58	74.00	-1.58	Peak
4	2416.950	29.45	7.43	36.61	100.01	100.28	74.00	-26.28	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

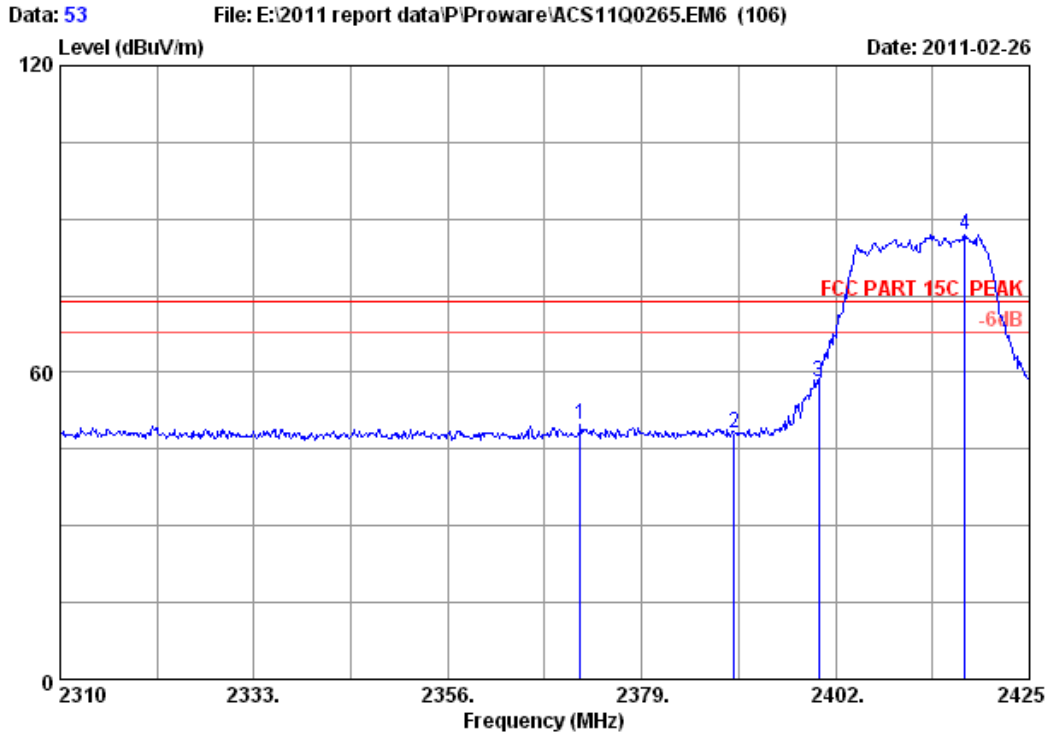


Site no. : RF Chamber Data no. : 52
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH1 2412MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2377.045	29.43	7.35	36.62	36.43	36.59	54.00	17.41	Average
2	2390.000	29.44	7.39	36.62	37.13	37.34	54.00	16.66	Average
3	2400.000	29.44	7.43	36.62	46.22	46.47	54.00	7.53	Average
4	2415.570	29.45	7.43	36.61	89.22	89.49	54.00	-35.49	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

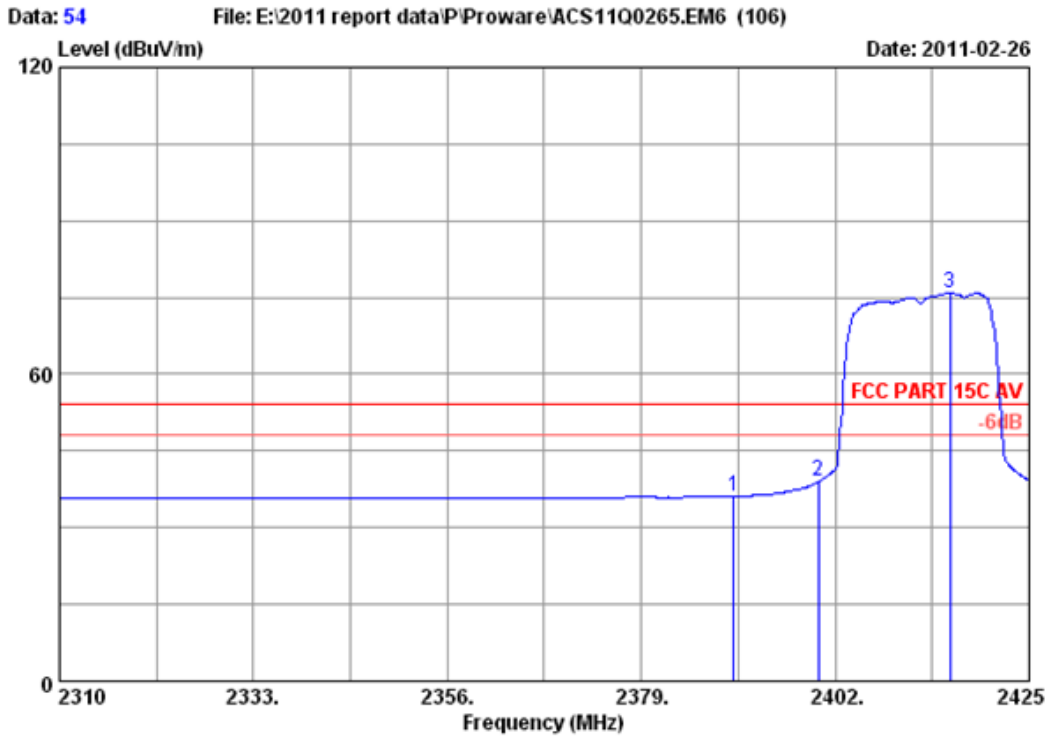


Site no. : RF Chamber Data no. : 53
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH1 2412MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2371.755	29.43	7.35	36.62	49.72	49.88	74.00	24.12	Peak
2	2390.000	29.44	7.39	36.62	48.09	48.30	74.00	25.70	Peak
3	2400.000	29.44	7.43	36.62	57.77	58.02	74.00	15.98	Peak
4	2417.295	29.45	7.43	36.61	86.73	87.00	74.00	-13.00	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

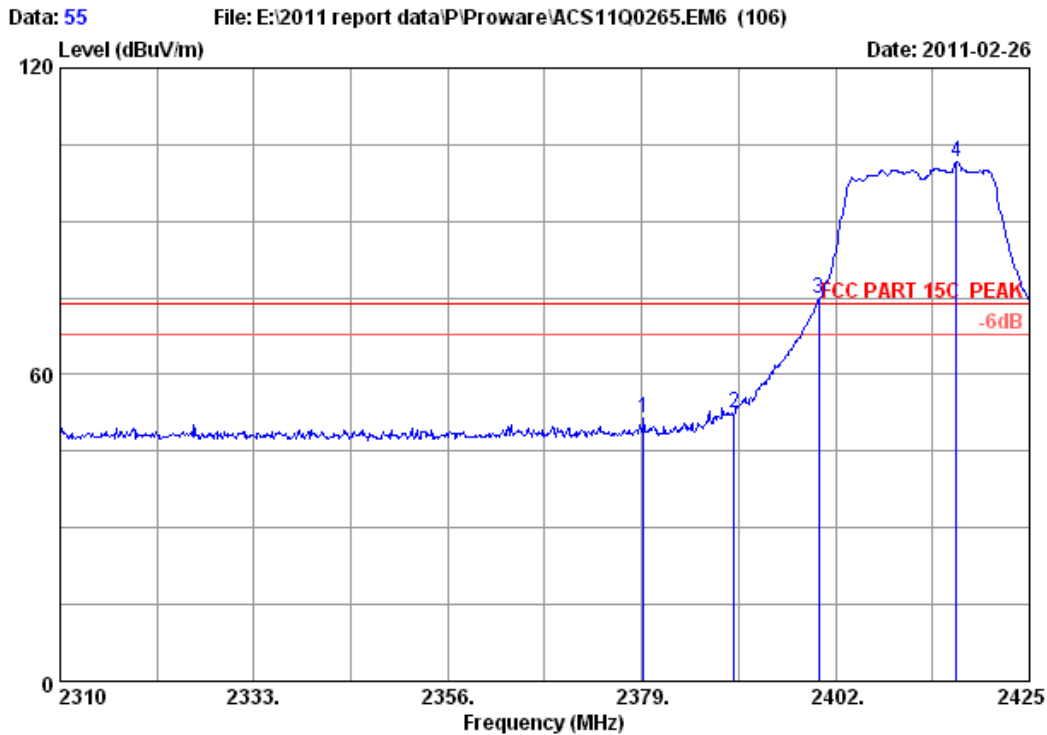


Data: 54 File: E:\2011 report data\P\Proware\ACS11Q0265.EM6 (106) Date: 2011-02-26
 Site no. : RF Chamber Data no. : 54
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11g CH1 2412MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	36.01	36.22	54.00	17.78	Average
2	2400.000	29.44	7.43	36.62	38.77	39.02	54.00	14.98	Average
3	2415.570	29.45	7.43	36.61	75.65	75.92	54.00	-21.92	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

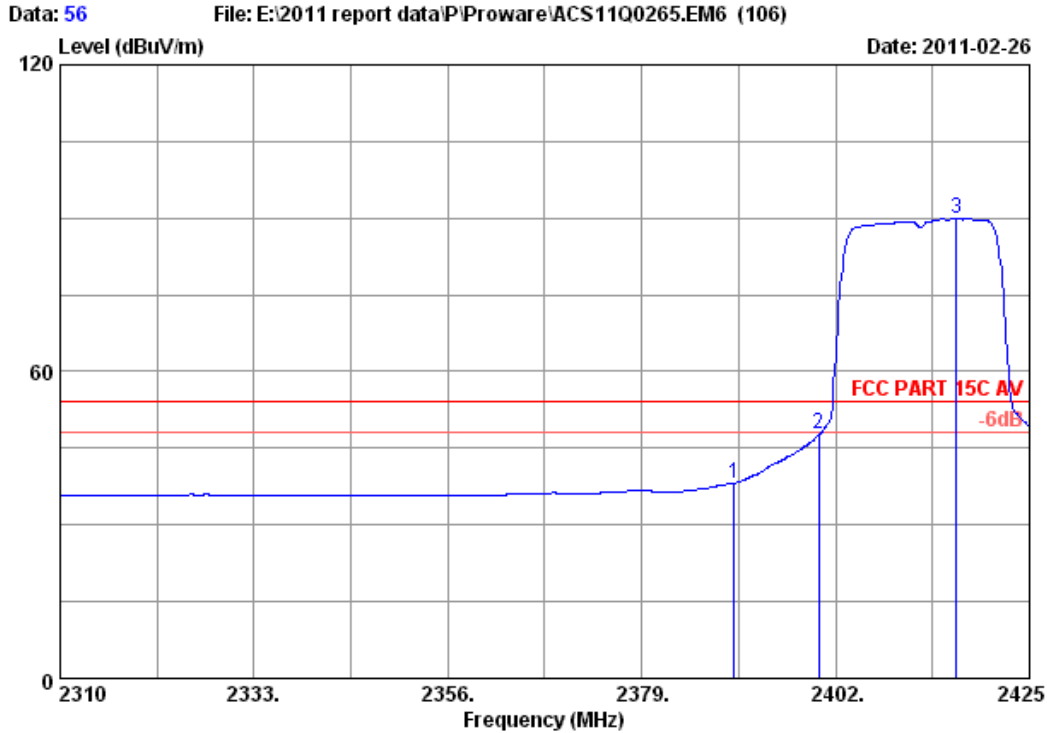


Site no. : RF Chamber Data no. : 55
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH1 2412MHz Tx Mode
 M/N : PW-DN523

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2379.230	29.43	7.39	36.62	51.31	51.51	74.00	22.49	Peak
2	2390.000	29.44	7.39	36.62	52.36	52.57	74.00	21.43	Peak
3	2400.000	29.44	7.43	36.62	74.72	74.97	74.00	-0.97	Peak
4	2416.375	29.45	7.43	36.61	101.23	101.50	74.00	-27.50	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

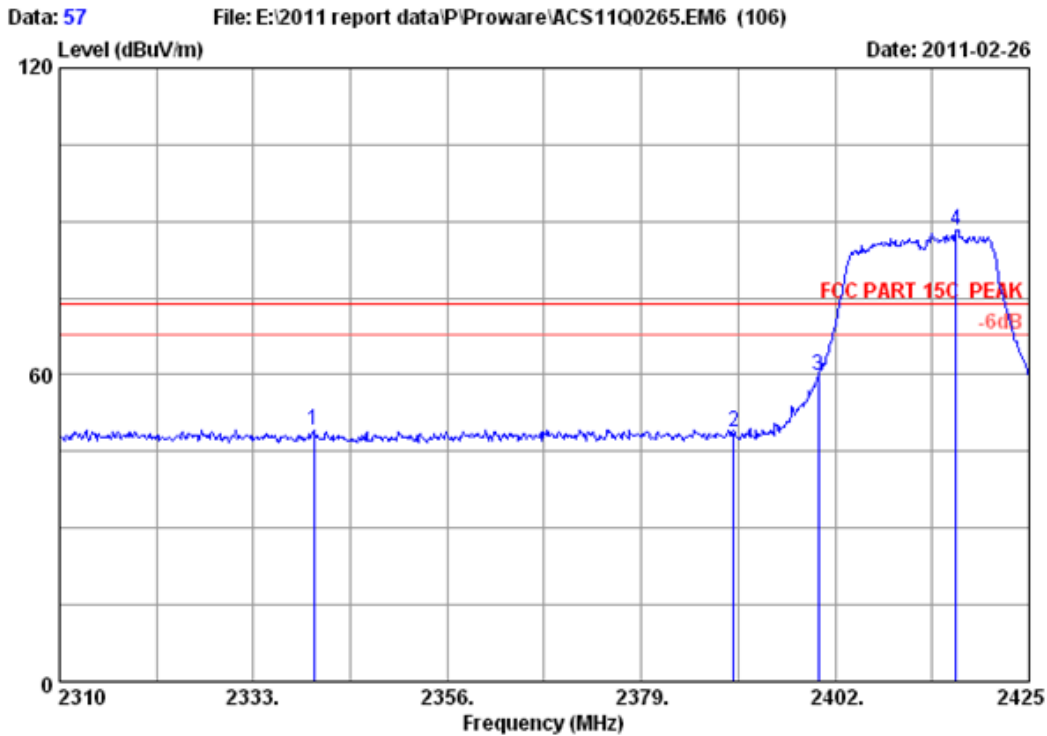


Site no. : RF Chamber Data no. : 56
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH1 2412MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	38.01	38.22	54.00	15.78	Average
2	2400.000	29.44	7.43	36.62	47.53	47.78	54.00	6.22	Average
3	2416.375	29.45	7.43	36.61	89.59	89.86	54.00	-35.86	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

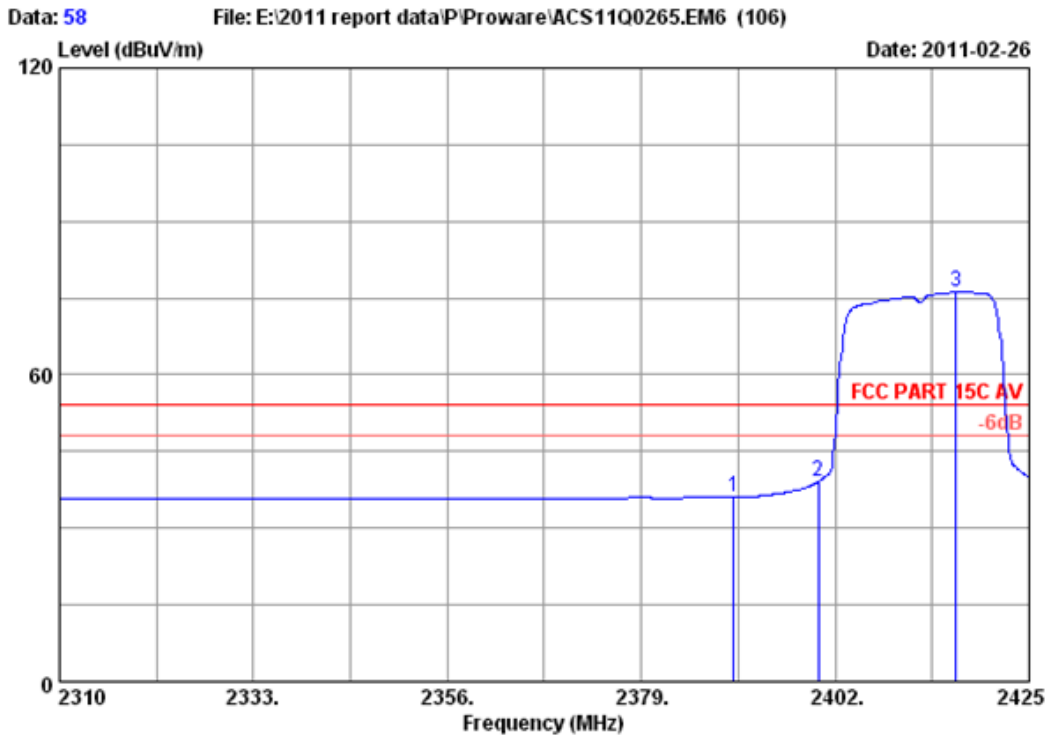


Site no. : RF Chamber Data no. : 57
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH1 2412MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2340.130	29.41	7.31	36.63	49.04	49.13	74.00	24.87	Peak
2	2390.000	29.44	7.39	36.62	48.61	48.82	74.00	25.18	Peak
3	2400.000	29.44	7.43	36.62	59.46	59.71	74.00	14.29	Peak
4	2416.375	29.45	7.43	36.61	87.95	88.22	74.00	-14.22	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

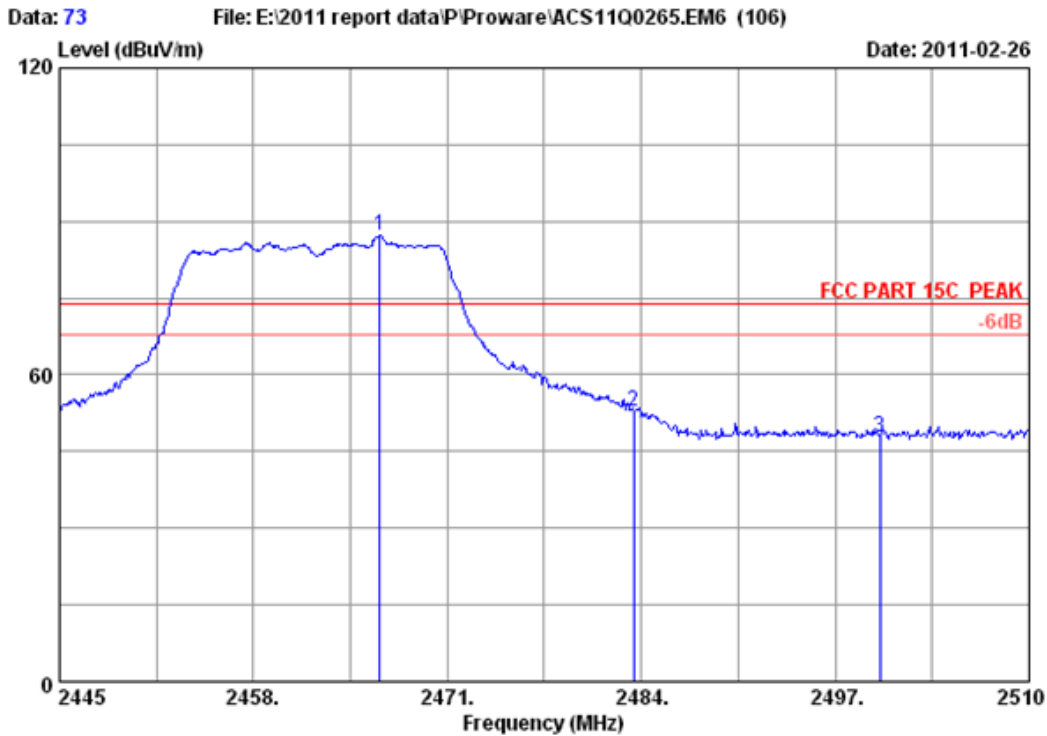


Site no. : RF Chamber Data no. : 58
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH1 2412MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	35.98	36.19	54.00	17.81	Average
2	2400.000	29.44	7.43	36.62	38.97	39.22	54.00	14.78	Average
3	2416.375	29.45	7.43	36.61	75.90	76.17	54.00	-22.17	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

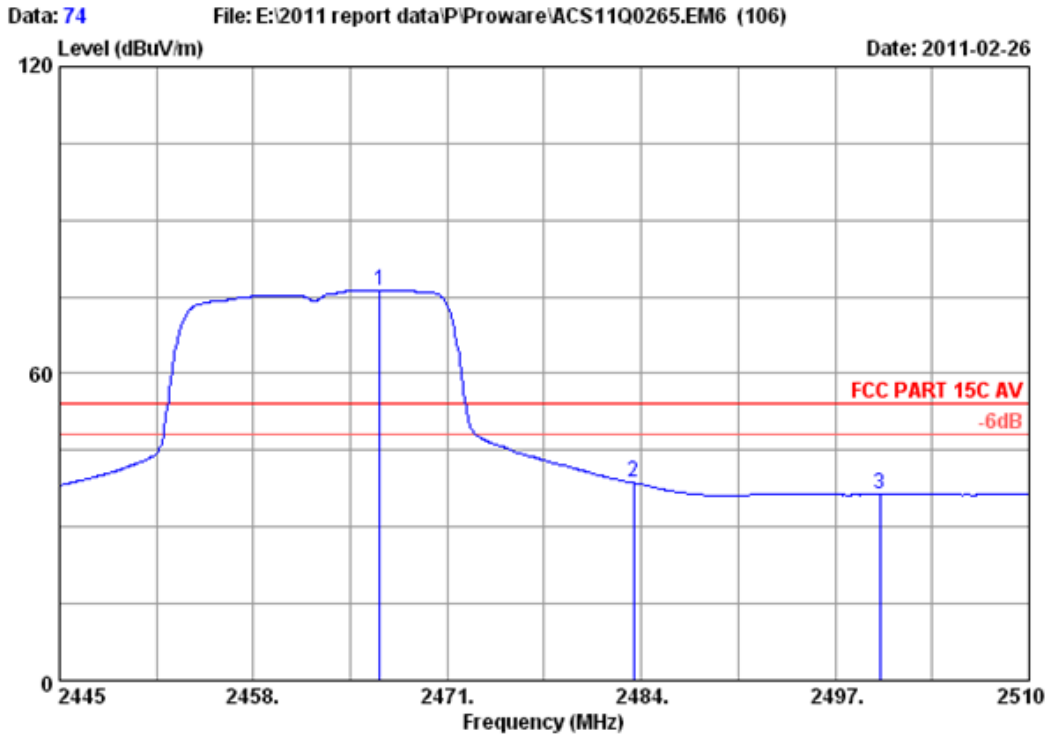


Site no. : RF Chamber Data no. : 73
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH11 2462MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2466.450	29.48	7.54	36.60	86.76	87.18	74.00	-13.18	Peak
2	2483.500	29.49	7.58	36.60	52.34	52.81	74.00	21.19	Peak
3	2500.000	29.50	7.62	36.60	47.39	47.91	74.00	26.09	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

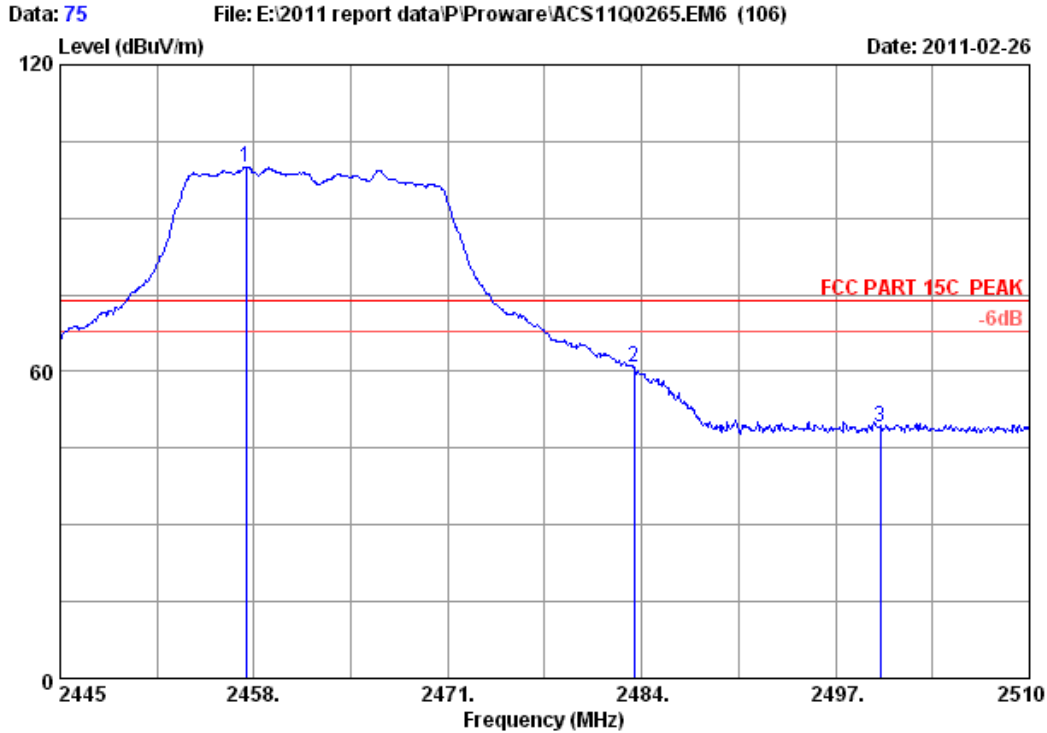


Site no. : RF Chamber Data no. : 74
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH11 2462MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2466.450	29.48	7.54	36.60	75.94	76.36	54.00	-22.36	Average
2	2483.500	29.49	7.58	36.60	38.18	38.65	54.00	15.35	Average
3	2500.000	29.50	7.62	36.60	35.86	36.38	54.00	17.62	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

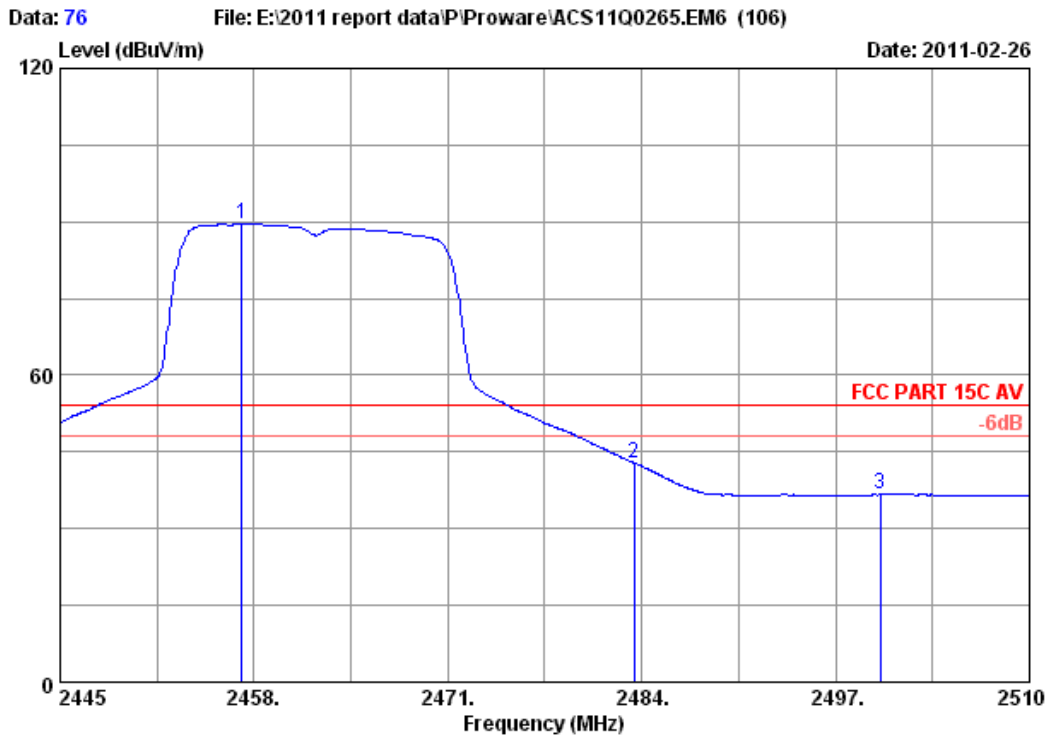


Site no. : RF Chamber Data no. : 75
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH11 2462MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2457.480	29.48	7.50	36.61	99.64	100.01	74.00	-26.01	Peak
2	2483.500	29.49	7.58	36.60	60.34	60.81	74.00	13.19	Peak
3	2500.000	29.50	7.62	36.60	48.69	49.21	74.00	24.79	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

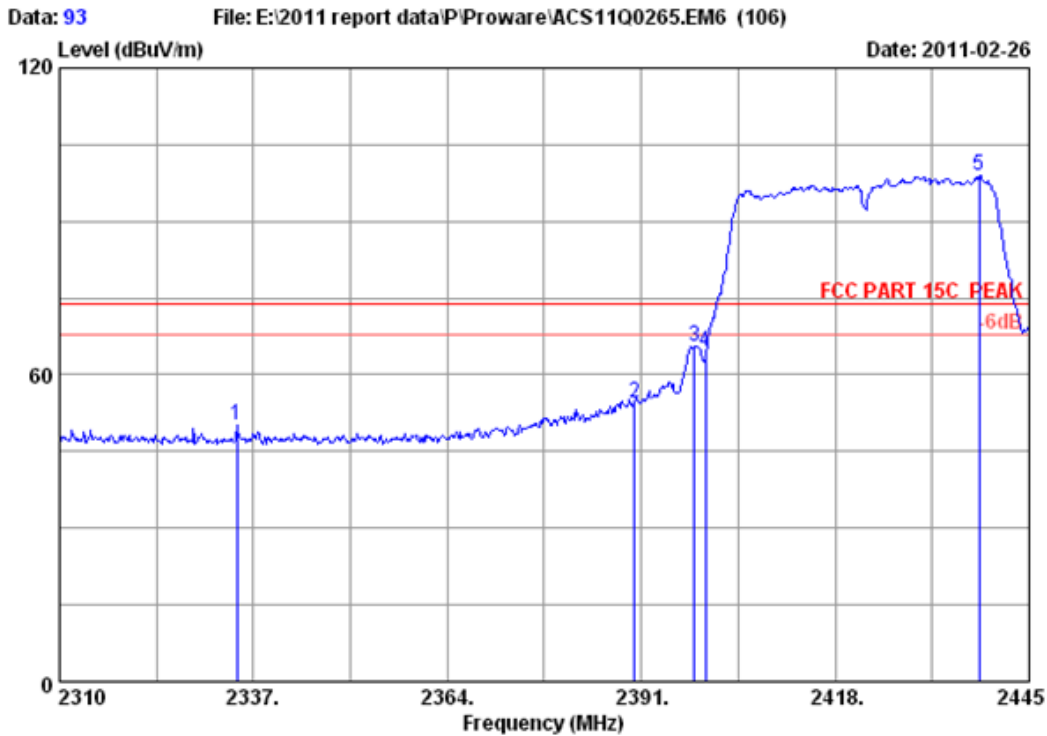


Site no. : RF Chamber Data no. : 76
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT20 CH11 2462MHz Tx Mode
 M/N : PW-DN523

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2457.155	29.48	7.50	36.61	89.18	89.55	54.00	-35.55	Average
2	2483.500	29.49	7.58	36.60	42.40	42.87	54.00	11.13	Average
3	2500.000	29.50	7.62	36.60	36.10	36.62	54.00	17.38	Average

Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

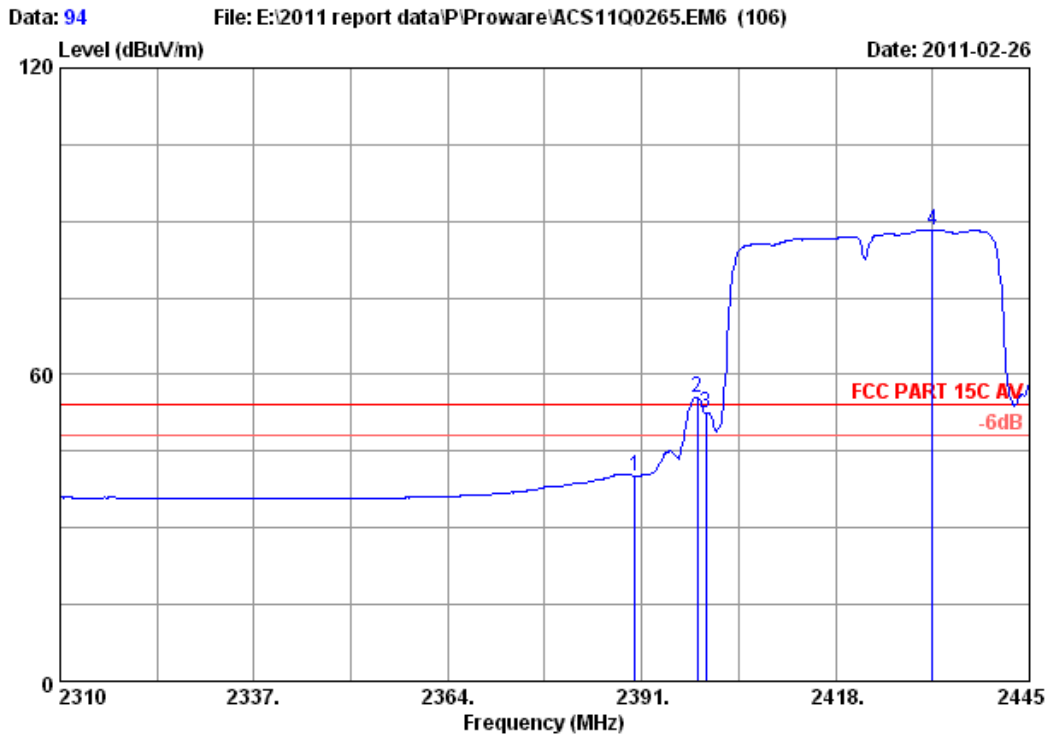


Site no. : RF Chamber Data no. : 93
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH3 2422MHz Tx Mode
 M/N : PW-DN523

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2334.705	29.41	7.27	36.63	50.07	50.12	74.00	23.88	Peak
2	2390.000	29.44	7.39	36.62	54.29	54.50	74.00	19.50	Peak
3	2398.425	29.44	7.39	36.62	65.37	65.58	74.00	8.42	Peak
4	2400.000	29.44	7.43	36.62	64.18	64.43	74.00	9.57	Peak
5	2437.980	29.47	7.46	36.61	98.59	98.91	74.00	-24.91	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

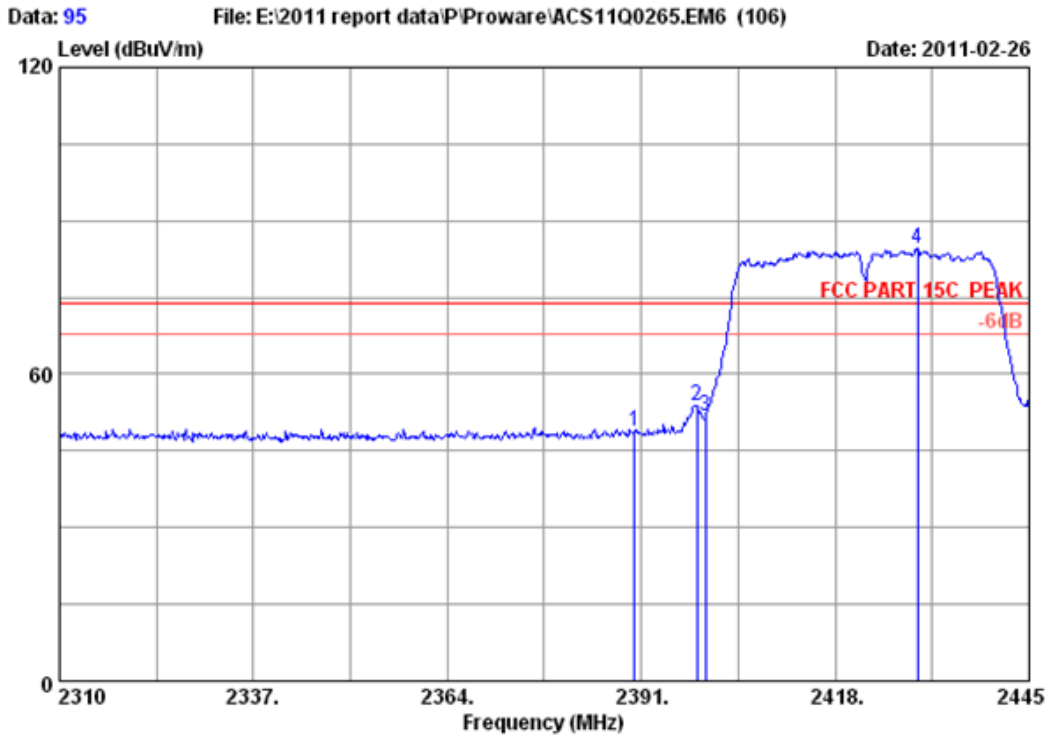


Site no. : RF Chamber Data no. : 94
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH3 2422MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	40.01	40.22	54.00	13.78	Average
2	2398.695	29.44	7.39	36.62	55.43	55.64	54.00	-1.64	Average
3	2400.000	29.44	7.43	36.62	52.09	52.34	54.00	1.66	Average
4	2431.500	29.46	7.46	36.61	87.97	88.28	54.00	-34.28	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

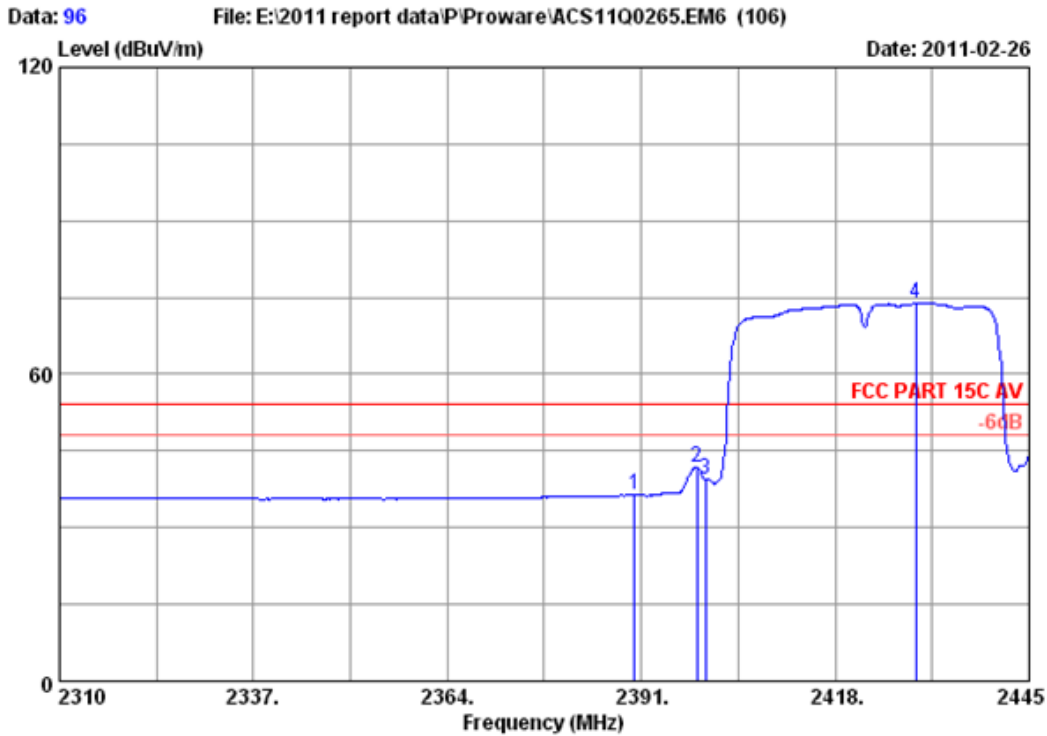


Site no. : RF Chamber Data no. : 95
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH3 2422MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	48.61	48.82	74.00	25.18	Peak
2	2398.695	29.44	7.39	36.62	53.75	53.96	74.00	20.04	Peak
3	2400.000	29.44	7.43	36.62	51.49	51.74	74.00	22.26	Peak
4	2429.475	29.46	7.46	36.61	84.25	84.56	74.00	-10.56	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

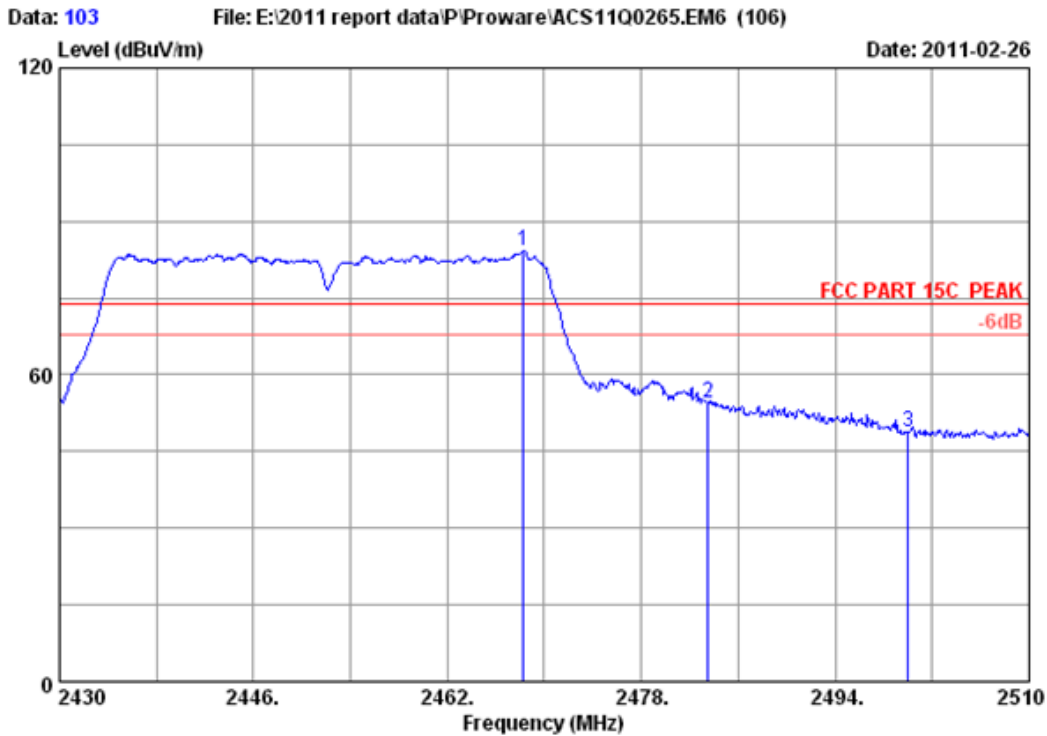


Site no. : RF Chamber Data no. : 96
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH3 2422MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	36.06	36.27	54.00	17.73	Average
2	2398.695	29.44	7.39	36.62	41.47	41.68	54.00	12.32	Average
3	2400.000	29.44	7.43	36.62	39.19	39.44	54.00	14.56	Average
4	2429.205	29.46	7.46	36.61	73.50	73.81	54.00	-19.81	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

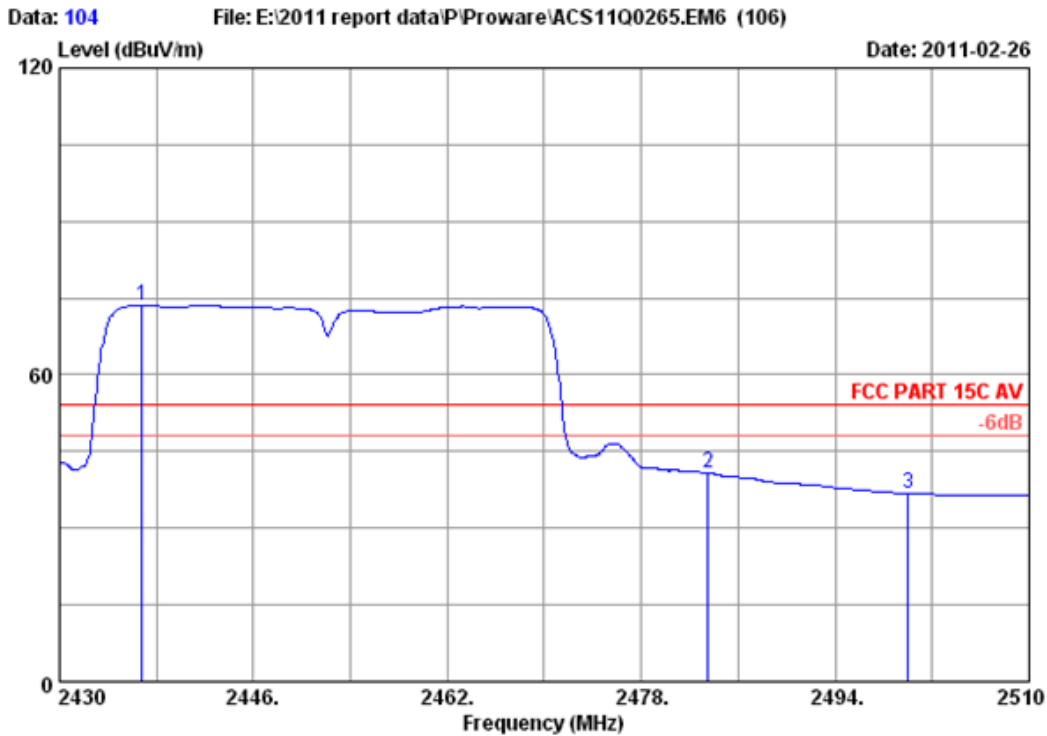


Site no. : RF Chamber Data no. : 103
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH9 2452MHz Tx Mode
 M/N : PW-DN523

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2468.240	29.48	7.54	36.60	83.72	84.14	74.00	-10.14	Peak	
2 2483.500	29.49	7.58	36.60	53.99	54.46	74.00	19.54	Peak	
3 2500.000	29.50	7.62	36.60	48.16	48.68	74.00	25.32	Peak	

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

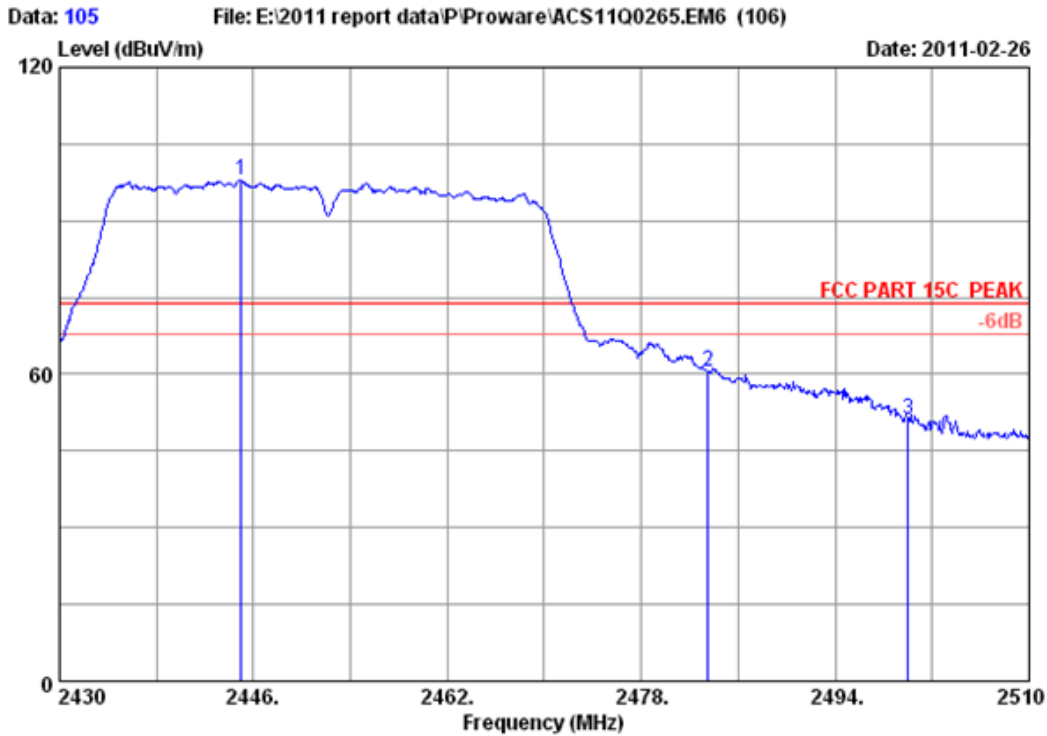


Site no. : RF Chamber Data no. : 104
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH9 2452MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2436.800	29.47	7.46	36.61	73.29	73.61	54.00	-19.61	Average
2	2483.500	29.49	7.58	36.60	40.28	40.75	54.00	13.25	Average
3	2500.000	29.50	7.62	36.60	36.30	36.82	54.00	17.18	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

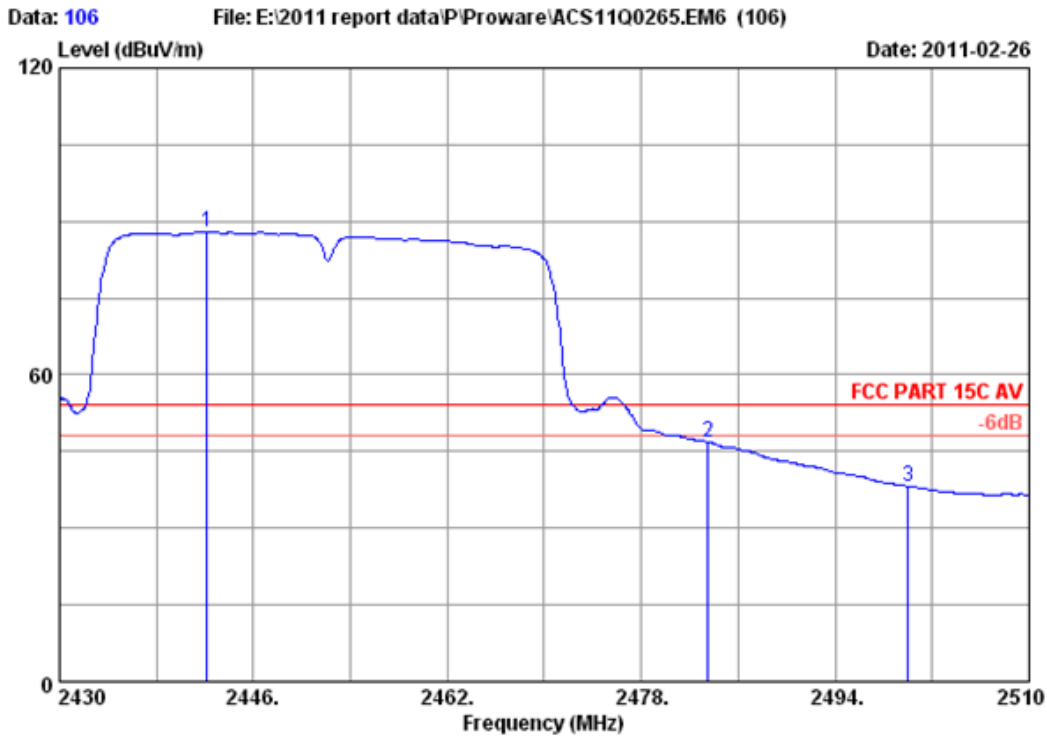


Site no. : RF Chamber Data no. : 105
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23*C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH9 2452MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2444.960	29.47	7.50	36.61	97.45	97.81	74.00	-23.81	Peak
2	2483.500	29.49	7.58	36.60	60.07	60.54	74.00	13.46	Peak
3	2500.000	29.50	7.62	36.60	50.53	51.05	74.00	22.95	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : RF Chamber Data no. : 106
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Paul Tian
 EUT : 300M Mini Wireless N USB Adapter
 Power : DC 5V From PC input AC 120V/60Hz
 Test mode : 11nHT40 CH9 2452MHz Tx Mode
 M/N : PW-DN523

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2442.160	29.47	7.50	36.61	87.54	87.90	54.00	-33.90	Average
2	2483.500	29.49	7.58	36.60	46.34	46.81	54.00	7.19	Average
3	2500.000	29.50	7.62	36.60	37.70	38.22	54.00	15.78	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

7. 6dB Bandwidth Test

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,10	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,10	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,10	1Year

7.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4. Test Results

EUT:300M Mini Wireless N USB Adapter		
M/N:PW-DN523		
Test date:2011-02-27	Pressure: 100.6 kpa	Humidity: 45%
Tested by: Paul Tian	Test site: RF Site	Temperature : 25 °C

Cable loss: 1dB		Attenuator loss: 20 dB	Antenna Gain: 0 dBi
Test Mode	CH	6dB bandwidth (MHz)	Limit (KHz)
11b	CH1	10.093	>500
	CH6	10.131	>500
	CH11	10.139	>500
11g	CH1	16.573	>500
	CH6	16.606	>500
	CH11	16.607	>500
11n HT20	CH1	17.828	>500
	CH6	17.836	>500
	CH11	17.834	>500
11n HT40	CH1	36.459	>500
	CH4	36.478	>500
	CH7	36.482	>500

Conclusion : PASS

Test Mode: IEEE 802.11b TX

Test CH1: 2412MHz

Agilent
L

Ch Freq 2.412 GHz **Trig** Free

Occupied Bandwidth [Progress Bar]

Ref 31 dBm #Atten 20 dB

#Peak Log 10 dB/Offst 21 dB

Center 2.412 00 GHz Span 50 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 4.8 ms (601 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
14.7931 MHz	x dB	-6.00 dB
Transmit Freq Error	41.453 kHz	
x dB Bandwidth	10.093 MHz	

Copyright 2000-2005 Agilent Technologies

Sweep

Sweep Time
4.800 ms
Auto Man

Sweep
Single Cont

Auto Sweep Time
Norm Accy

Gate
On Off

Gate Setup

Points
601

Test CH6: 2437MHz

Agilent
L

Ch Freq 2.437 GHz **Trig** Free

Occupied Bandwidth [Progress Bar]

Ref 31 dBm #Atten 20 dB

#Peak Log 10 dB/Offst 21 dB

Center 2.437 00 GHz Span 50 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 4.8 ms (601 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
14.7641 MHz	x dB	-6.00 dB
Transmit Freq Error	29.932 kHz	
x dB Bandwidth	10.131 MHz	

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Trace

Trace
1 2 3

Clear Write

Max Hold

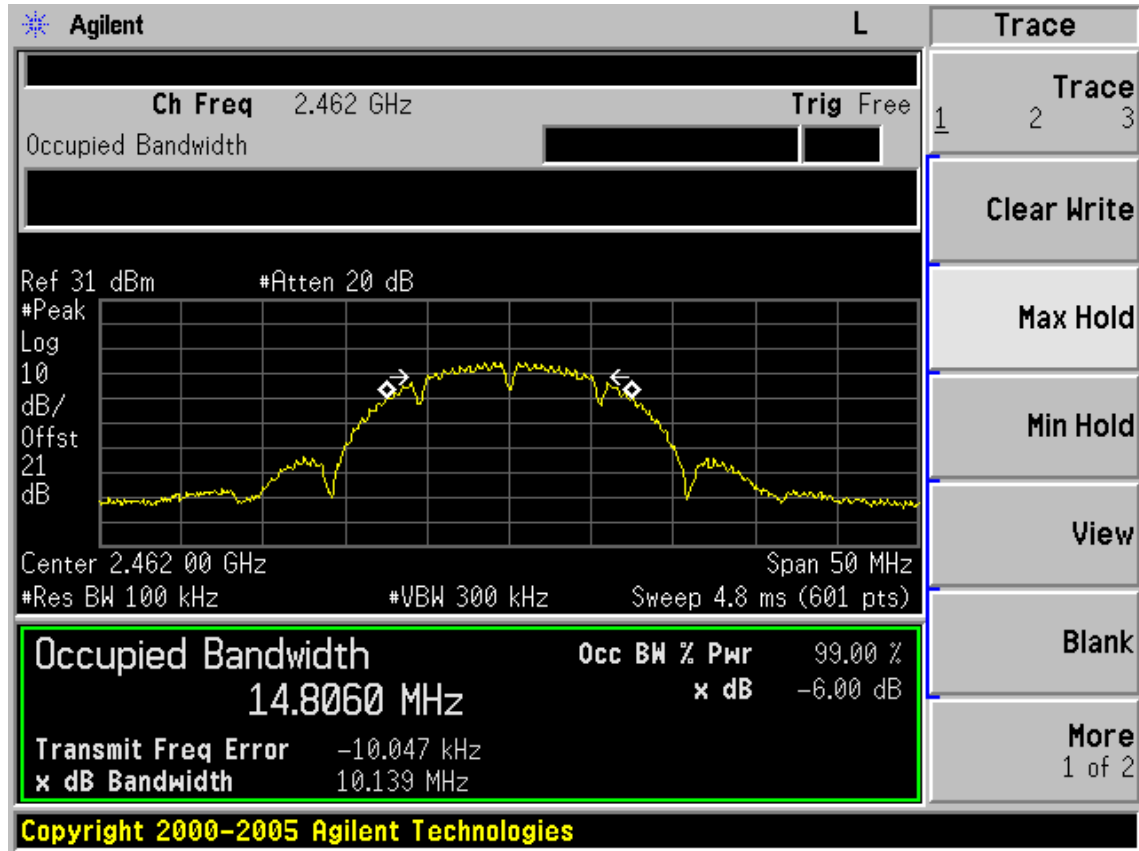
Min Hold

View

Blank

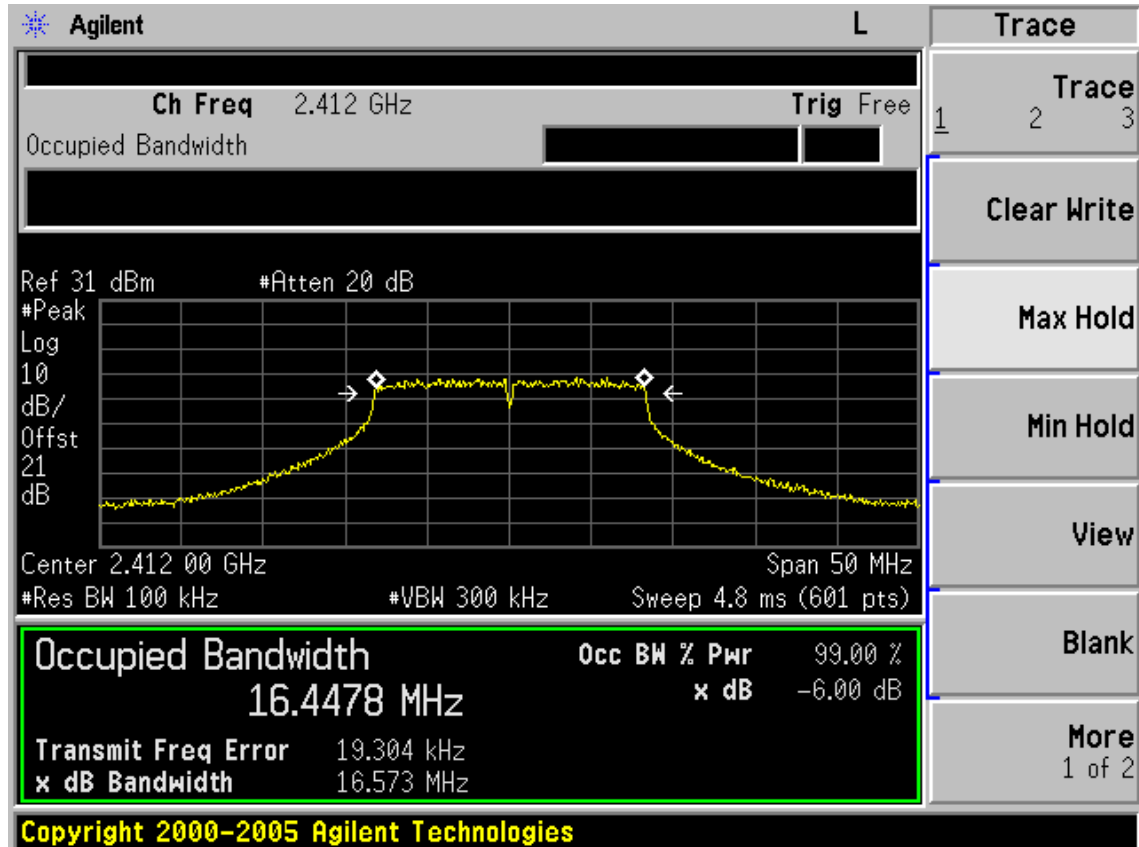
More
1 of 2

Test CH11: 2462MHz



Test Mode: IEEE 802.11g TX

Test CH1: 2412MHz



Test CH6: 2437MHz

Agilent L

Ch Freq 2.437 GHz Trig Free

Occupied Bandwidth

Ref 31 dBm #Atten 20 dB

#Peak Log 10 dB/Offst 21 dB

Center 2.437 00 GHz Span 50 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 4.8 ms (601 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
16.4803 MHz	x dB	-6.00 dB
Transmit Freq Error	7.674 kHz	
x dB Bandwidth	16.606 MHz	

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Test CH11: 2462MHz

Agilent L

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Center 2.462000000 GHz

Ref 31 dBm #Atten 20 dB

#Peak Log 10 dB/Offst 21 dB

Center 2.462 00 GHz Span 50 MHz

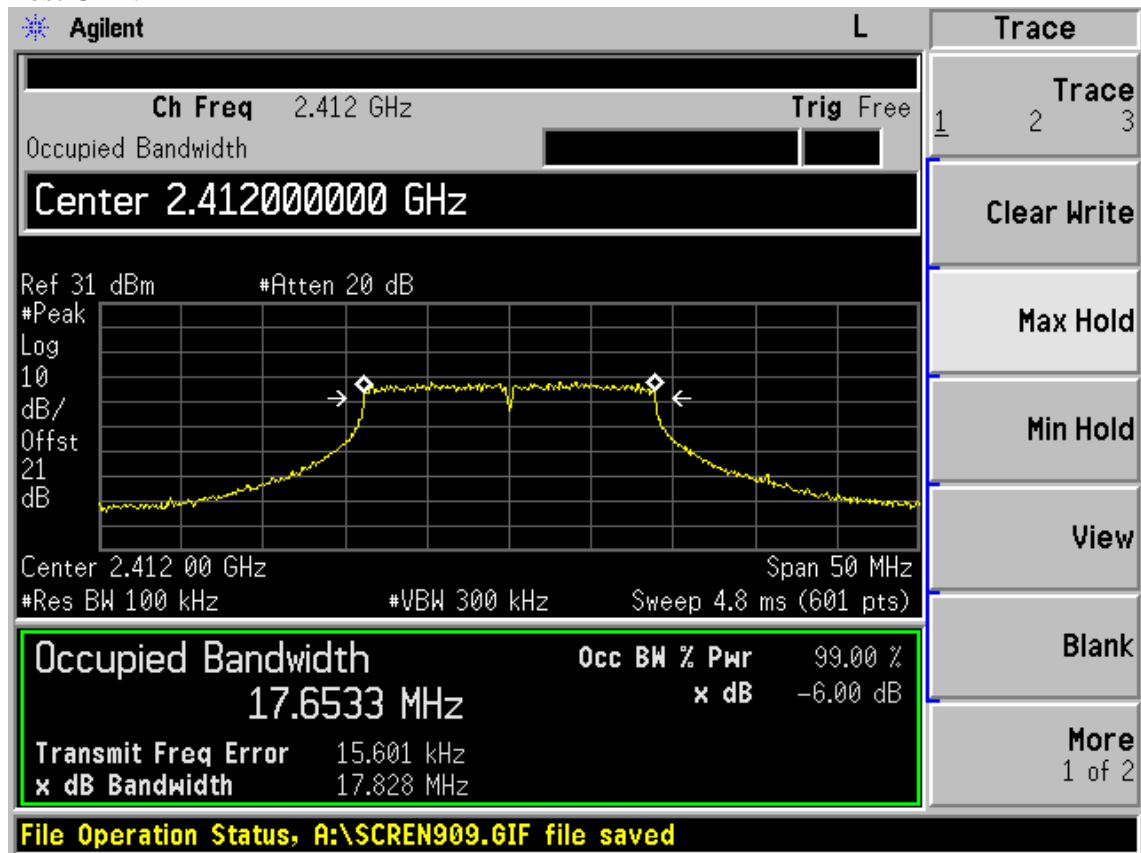
#Res BW 100 kHz #VBW 300 kHz Sweep 4.8 ms (601 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
16.4837 MHz	x dB	-6.00 dB
Transmit Freq Error	4.048 kHz	
x dB Bandwidth	16.607 MHz	

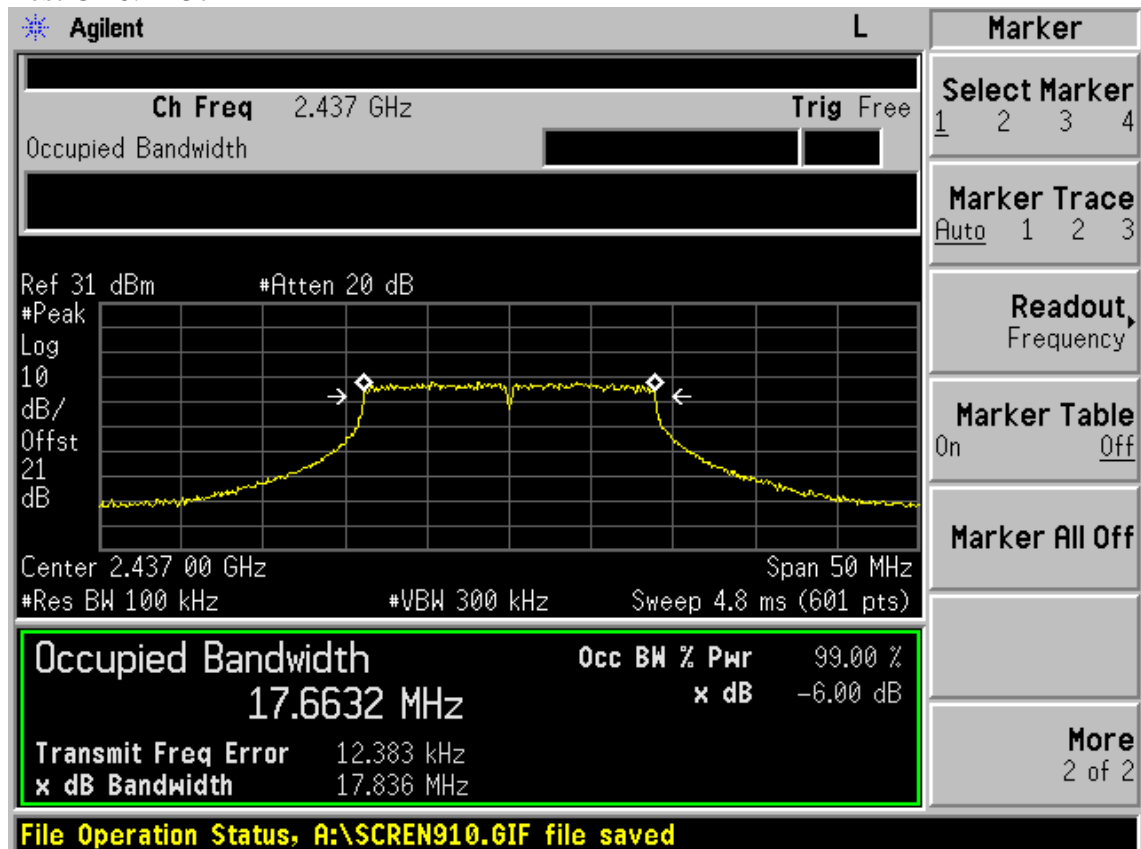
File Operation Status, A:\SCREN908.GIF file saved

Test Mode: IEEE 802.11n HT20TX

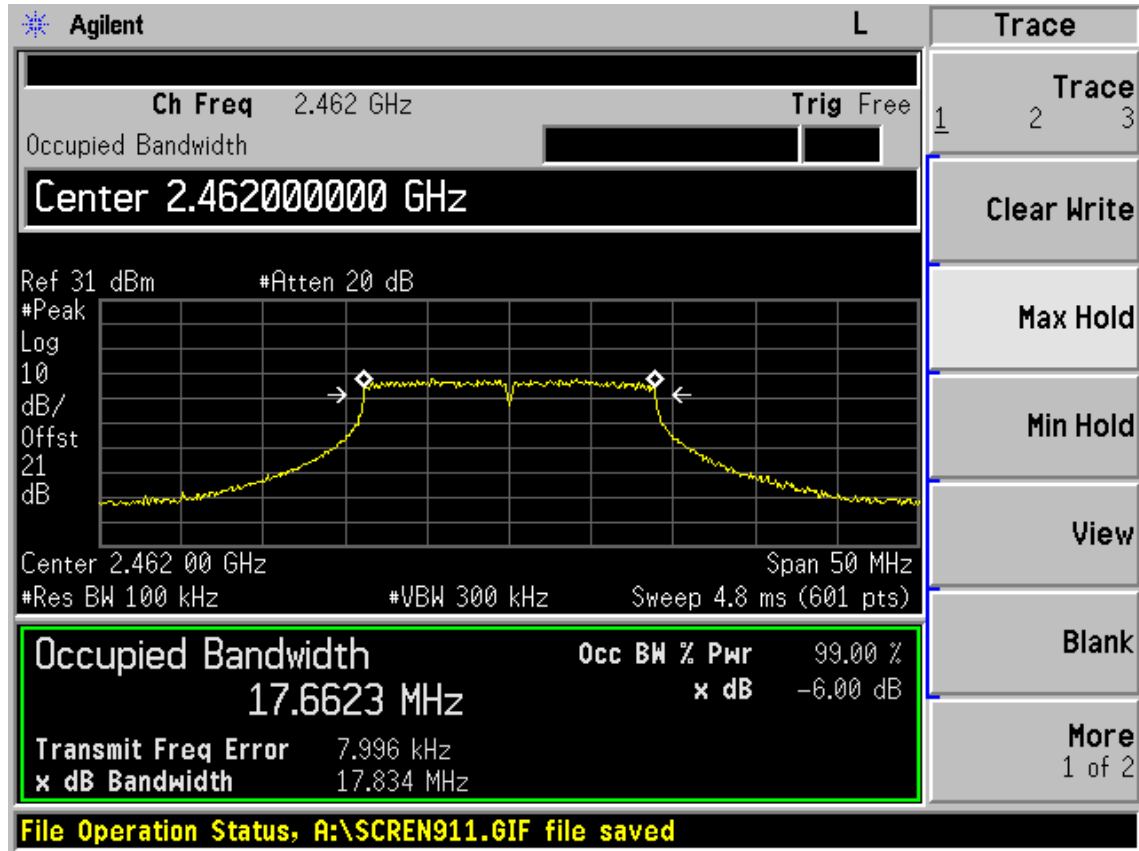
Test CH1: 2412MHz



Test CH6: 2437MHz

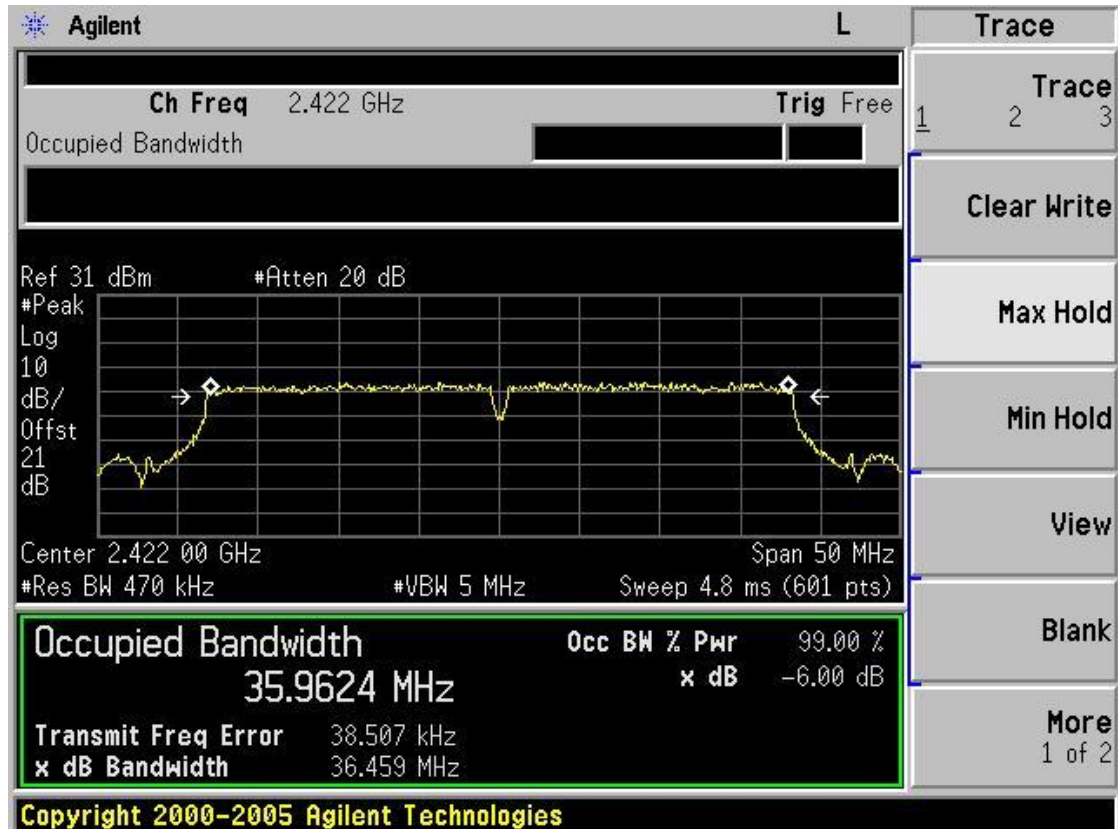


Test CH11: 2462MHz

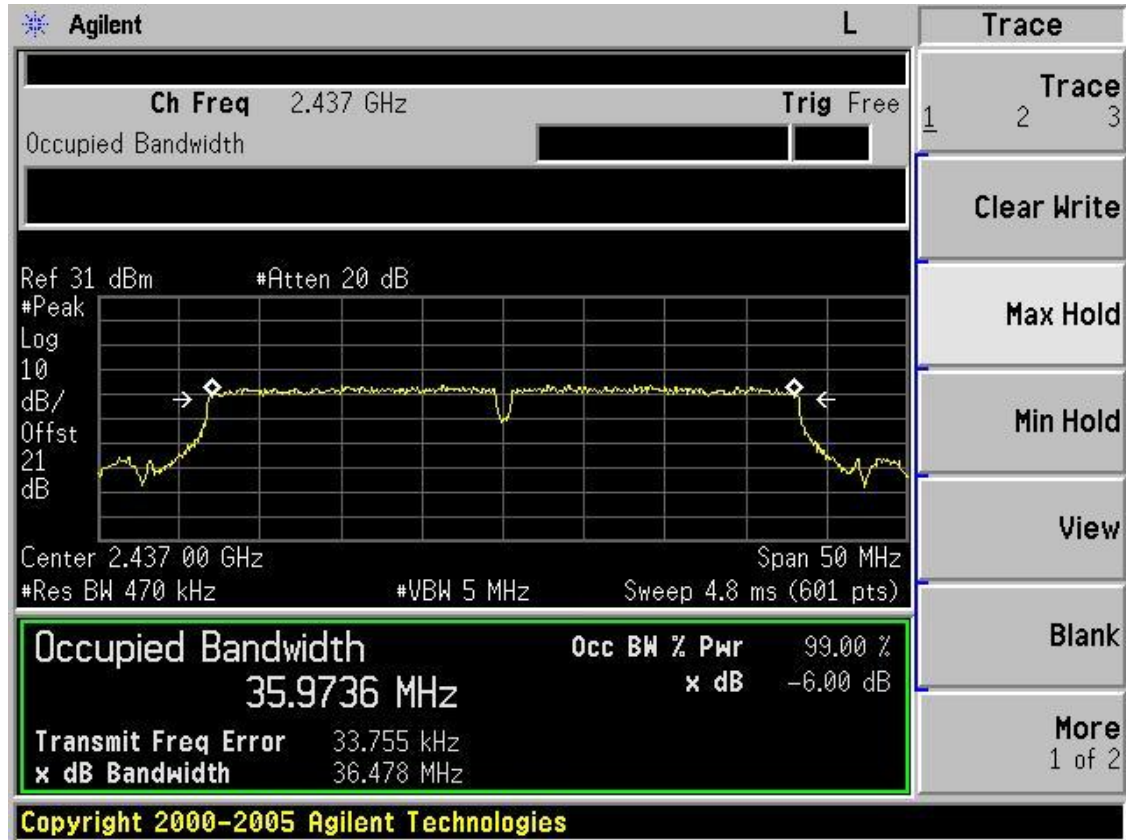


Test Mode: IEEE 802. 11n HT40TX

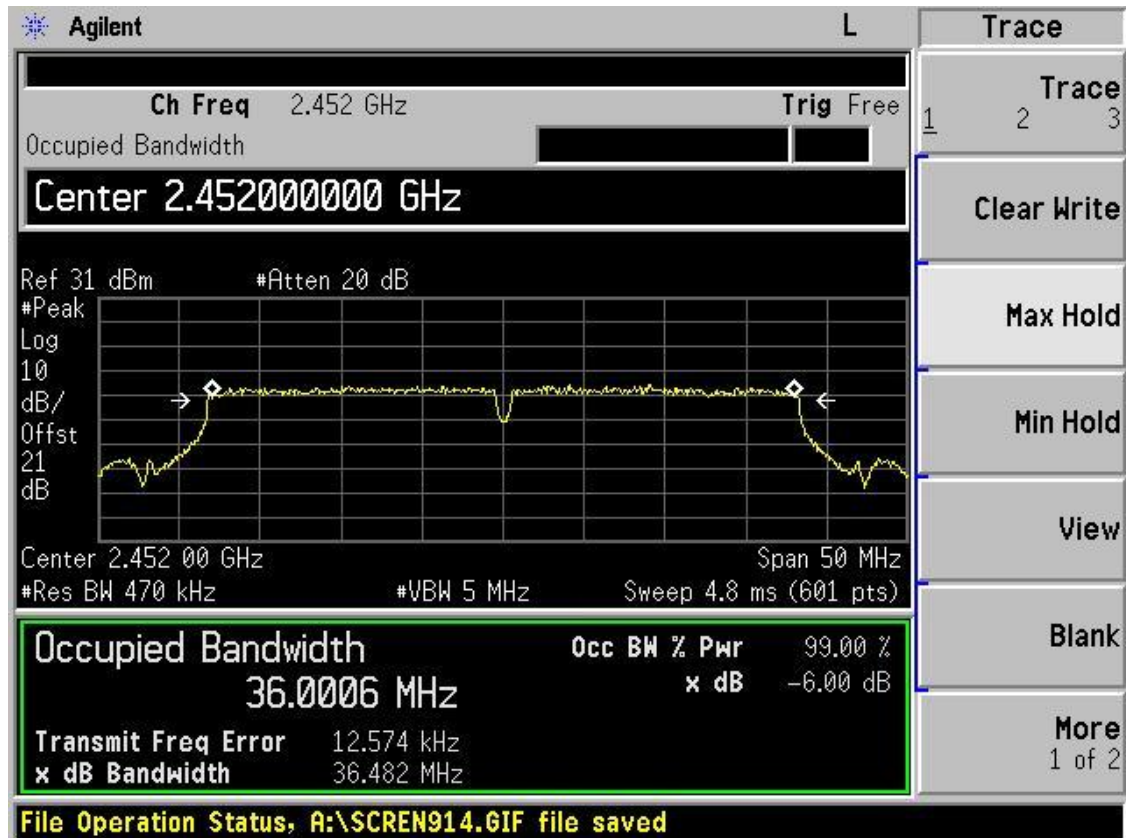
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



8. OUTPUT POWER TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Power meter	Anritsu	ML2487A	6K00002472	May.08,10	1 Year
2.	Power sensor	Anritsu	MA2491A	0033005	May.08,10	1 Year
3	Attenuator	Agilent	8491B	MY39262165	May.08,10	1 Year
4	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 10	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,10	1 Year

8.2. Limit (FCC Part 15C 15.247 b (3))

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

8.3. Test Procedure

- 1, Connected the EUT's antenna port to measure device by 20dB attenuator.
- 2, For IEEE 802.11b/g and IEEE802.11n HT20 mode, use a PK power meter which's bandwidth is 20MHz and above 6dB bandwidth of signal to measure out each test modes' PK output power.
- 3, For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So Bandwidth correction method according to ANSI C63.10 clause 6.10.2.1 part (c) was used:
 - 1) Set the RBW=3MHz and VBW =8MHz
 - 2) Turn averaging off
 - 3) Set sweep to automatic
 - 4) Set the span just large enough to capture the emission
 - 5) Use a peak detector on max hold
 - 6) Record the measured power
 - 7) Calculate Output power of EUT use the formula:

$$\text{Peak output power} = \text{measured power} + 10\log\left[\frac{(\text{6dB bandwidth of emission})}{(\text{analyzer RBW})}\right]$$

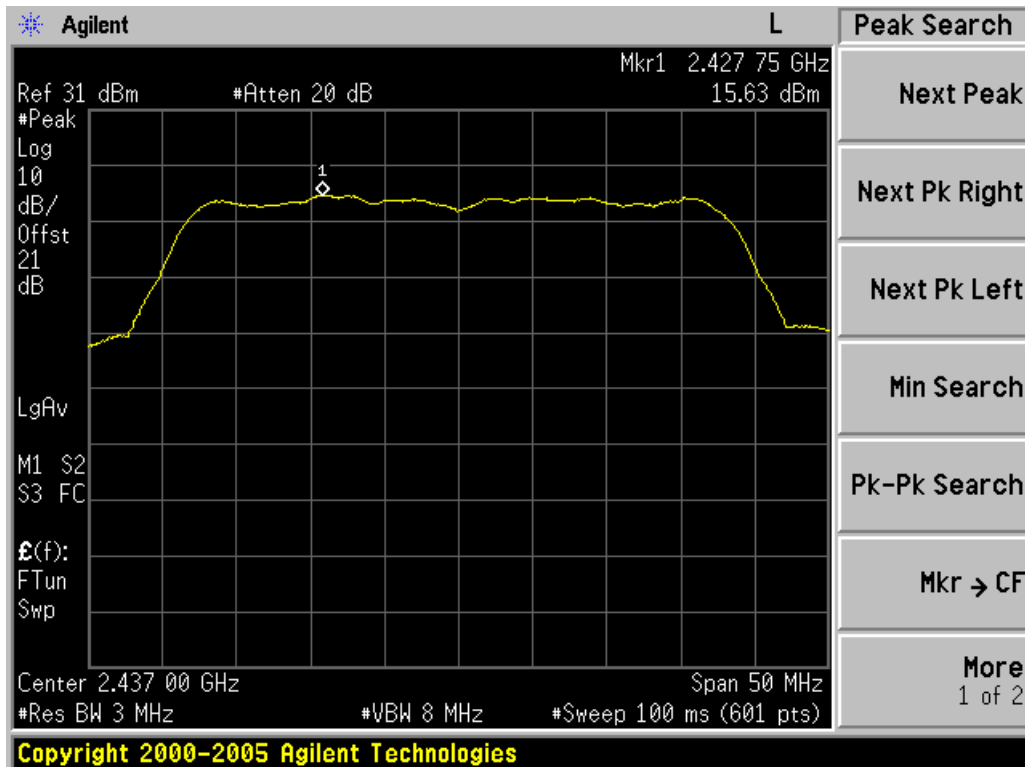
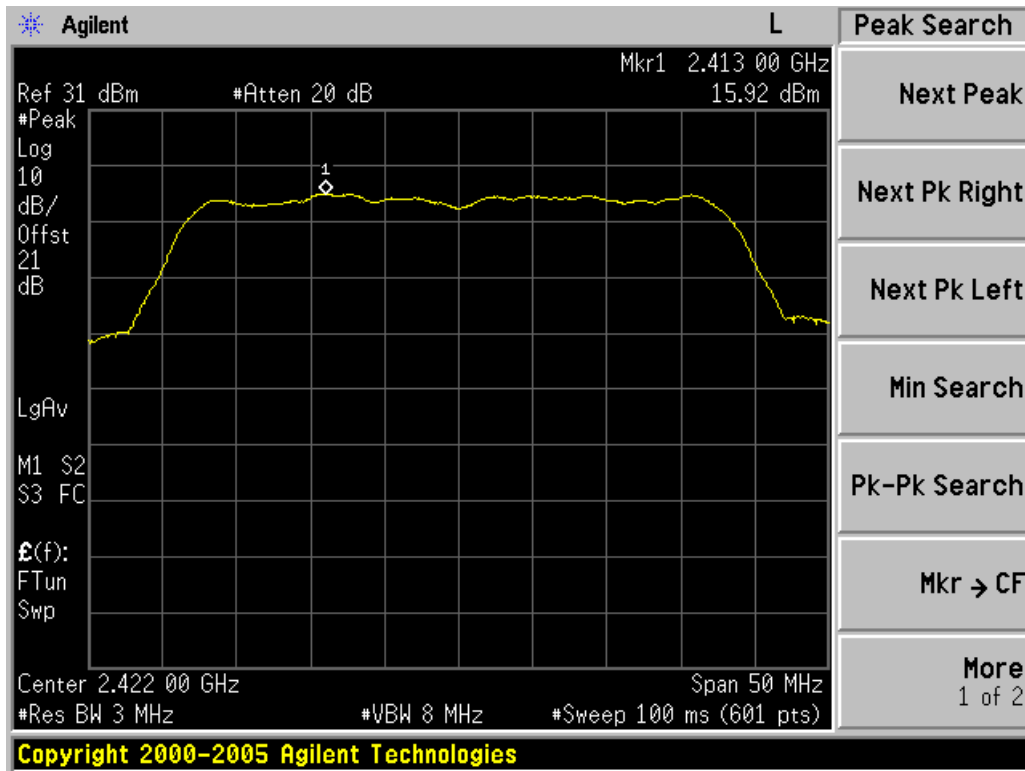
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

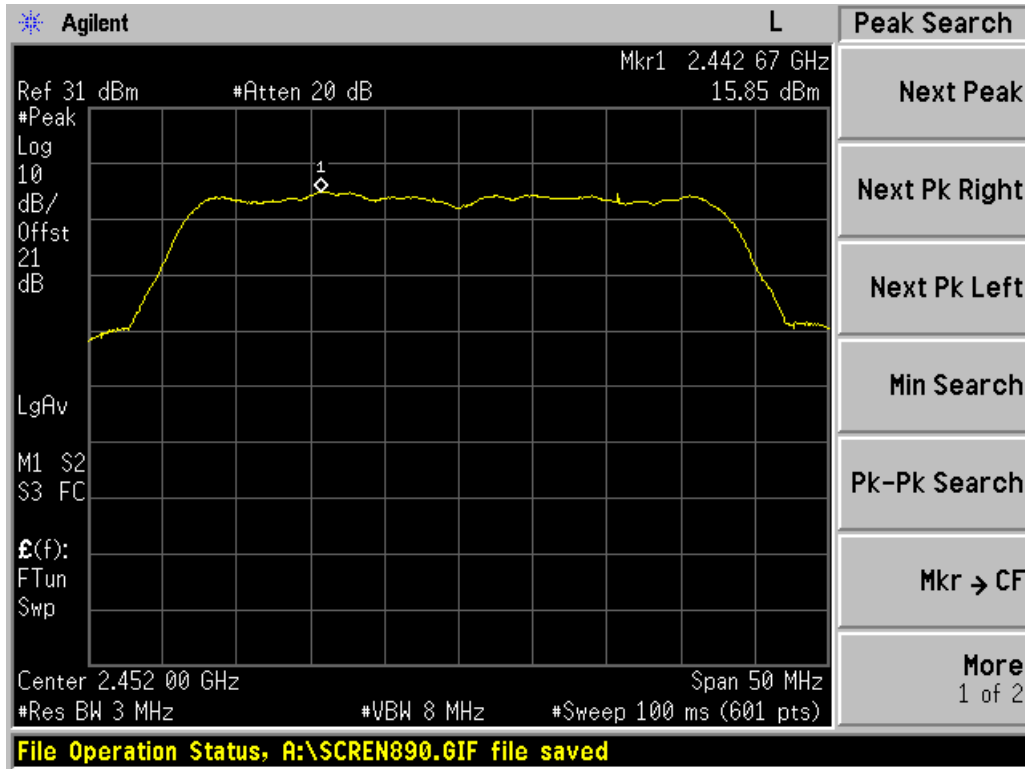
8.4. Test Results

EUT:300M Mini Wireless N USB Adapter		
M/N:PW-DN523		
Test date:2011-02-27	Pressure: 100.6 kpa	Humidity: 45 %
Tested by: Paul Tian	Test site: RF Site	Temperature : 25 °C

Cable loss: 1dB		Attenuator loss: 20 dB	Antenna Gain: 0 dBi
Test Mode	CH	Peak output Power (dBm)	Limit (dBm)
11b	CH1	19.41	30
	CH6	19.10	30
	CH11	19.06	30
11g	CH1	24.68	30
	CH6	24.55	30
	CH11	24.58	30
11n HT20	CH1	25.31	30
	CH6	25.33	30
	CH11	25.42	30

Mode	CH	Result		Limit (dBm)
		Measured power(dBm)/3MHz	PK Output power (dBm)	
11n HT40	CH1	15.92	26.77	30
	CH4	15.63	26.48	30
	CH7	15.85	26.70	30
6dB Bandwidth for 11n HT40: 36.5MHz				
BW correction factor = $10\log[(36.5\text{MHz})/(3\text{MHz})] = 10.85\text{dB}$				
Conclusion: PASS				





9. POWER SPECTRAL DENSITY TEST

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 10	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 10	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08, 10	1Year

9.2. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

9.3. Test Procedure

- 1, Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
- 2, Follow the test procedure as described in ANSI C.10: 2009 Clause 6.11.2.3 to measure out each test modes and chain's power density with 3KHz.

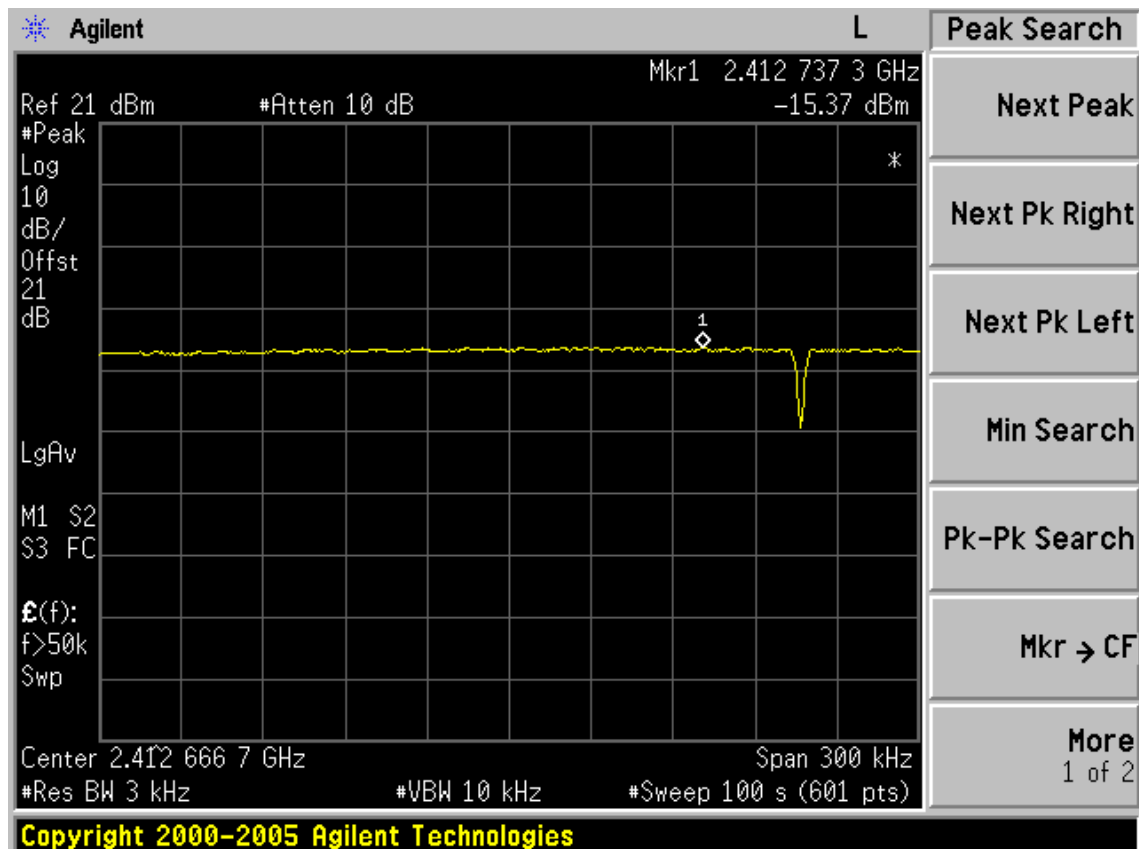
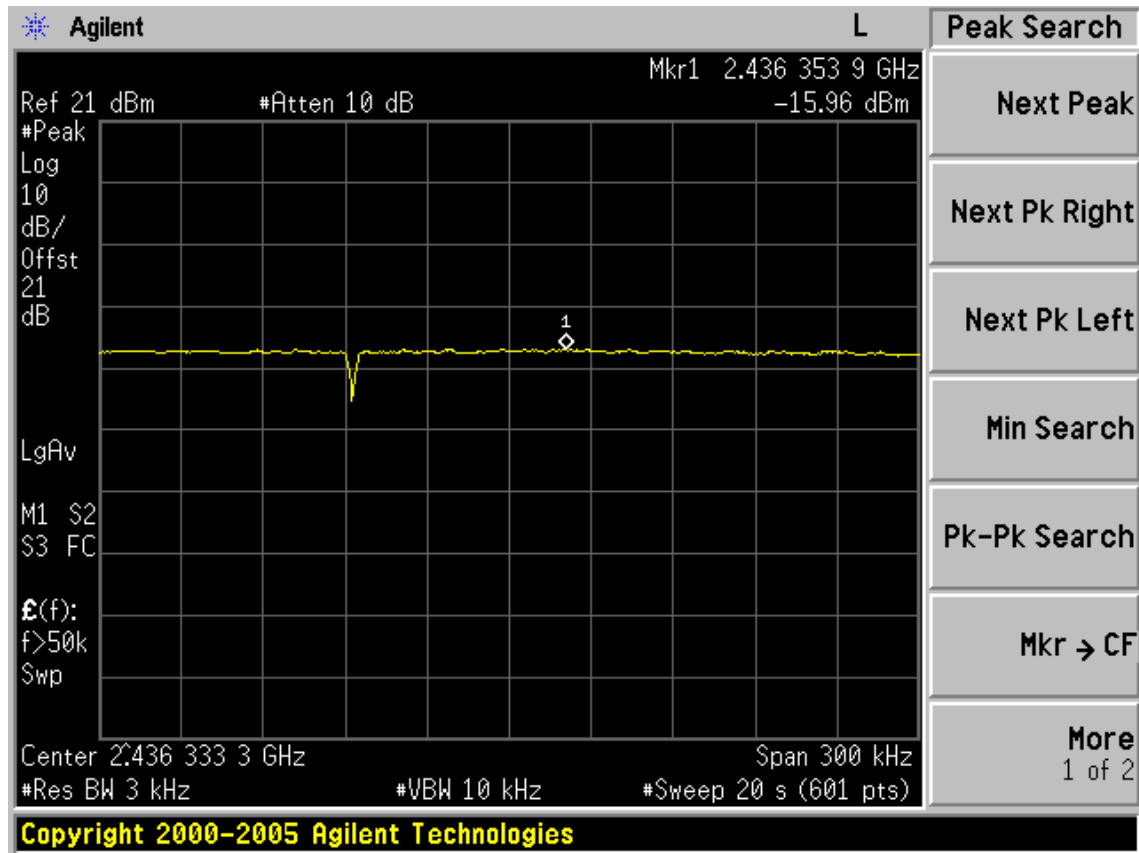
9.4. Test Results

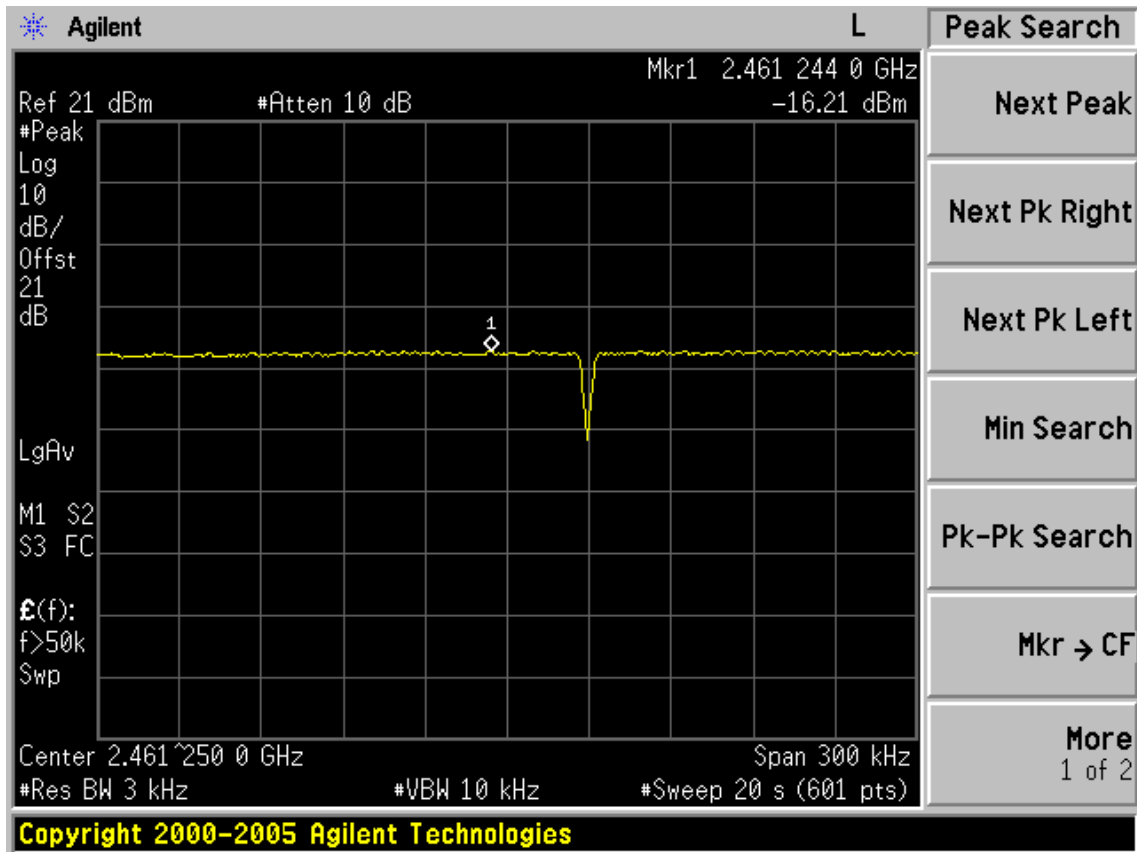
EUT:300M Mini Wireless N USB Adapter		
M/N:PW-DN523		
Test date:2011-02-27	Pressure: 100.6 kpa	Humidity: 45 %
Tested by: Paul Tian	Test site: RF Site	Temperature : 25°C

Cable loss: 1 dB		Attenuator loss: 20 dB	Antenna Gain: 0 dBi
Test Mode	CH	Power density (dBm/3KHz)	Limit (dBm/3KHz)
11b	CH1	-15.37	8
	CH6	-15.96	8
	CH11	-16.21	8
11g	CH1	-12.11	8
	CH6	-11.05	8
	CH11	-12.33	8
11n HT20	CH1	-10.70	8
	CH6	-10.74	8
	CH11	-11.42	8
11n HT40	CH1	-12.21	8
	CH4	-12.08	8
	CH7	-12.32	8

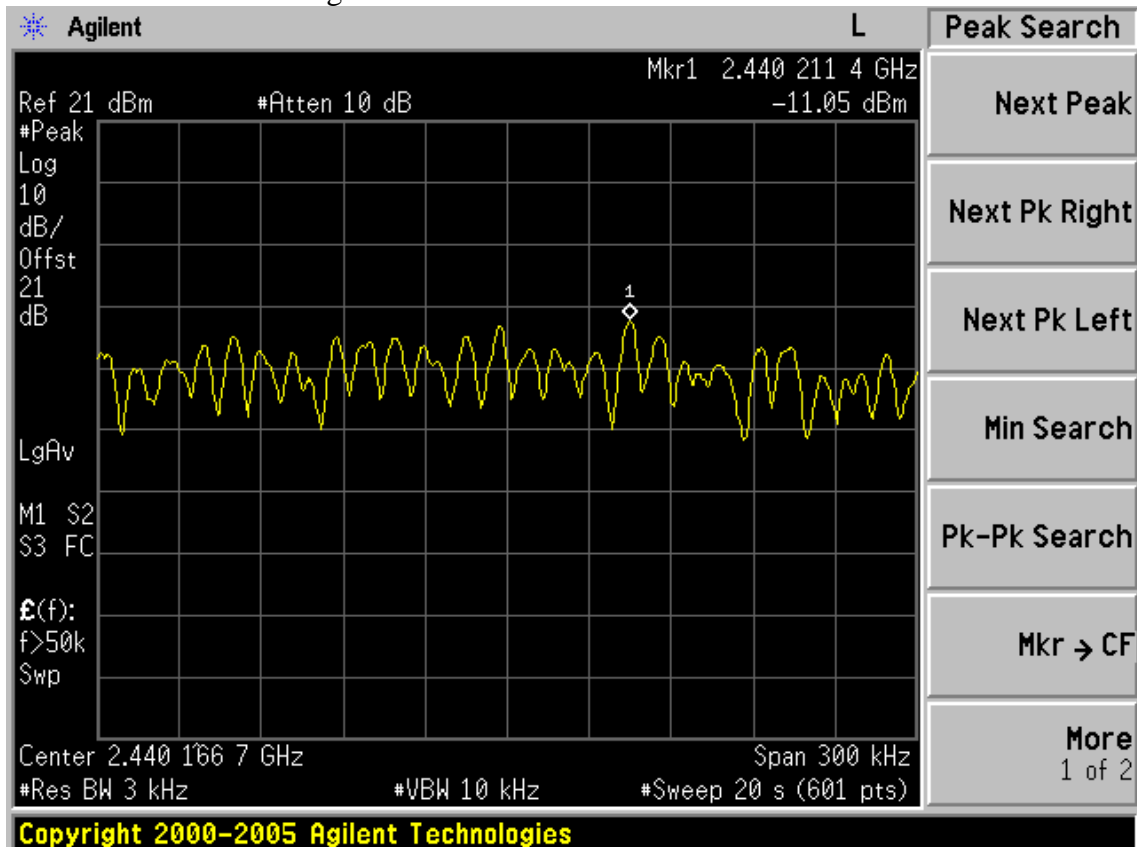
Conclusion : PASS

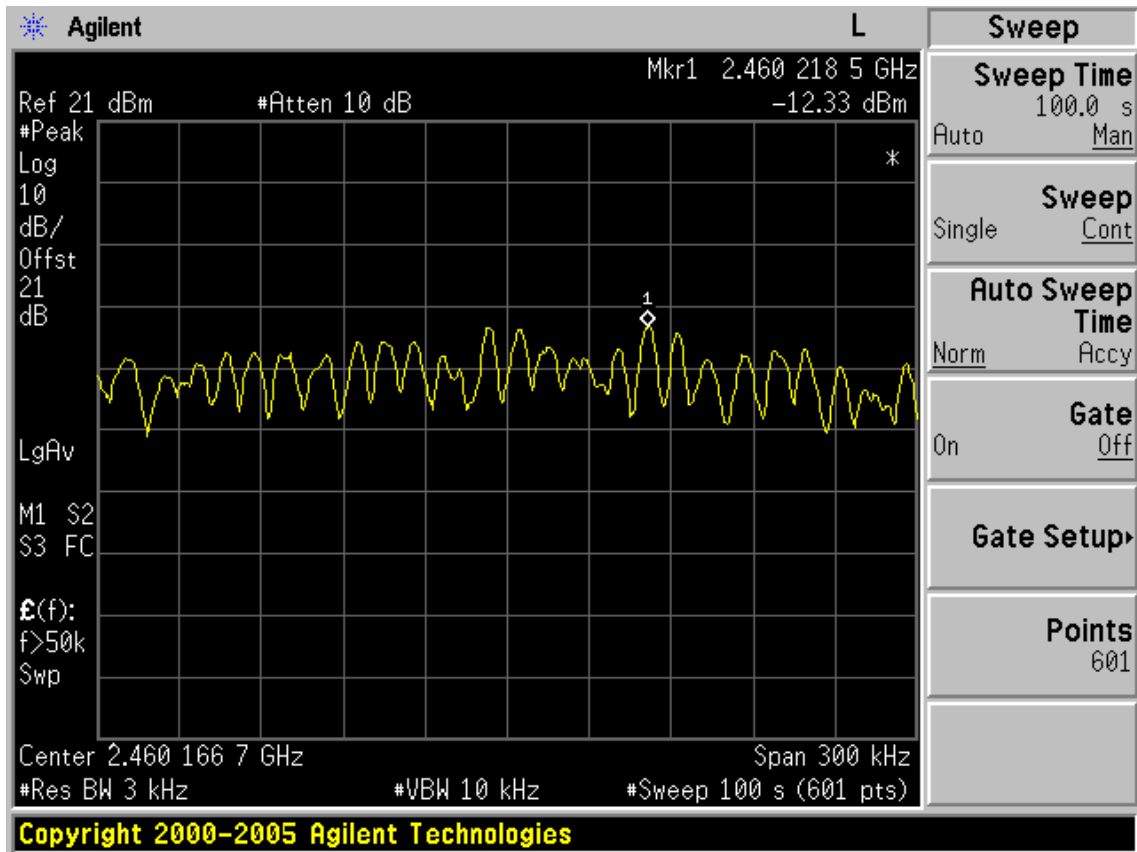
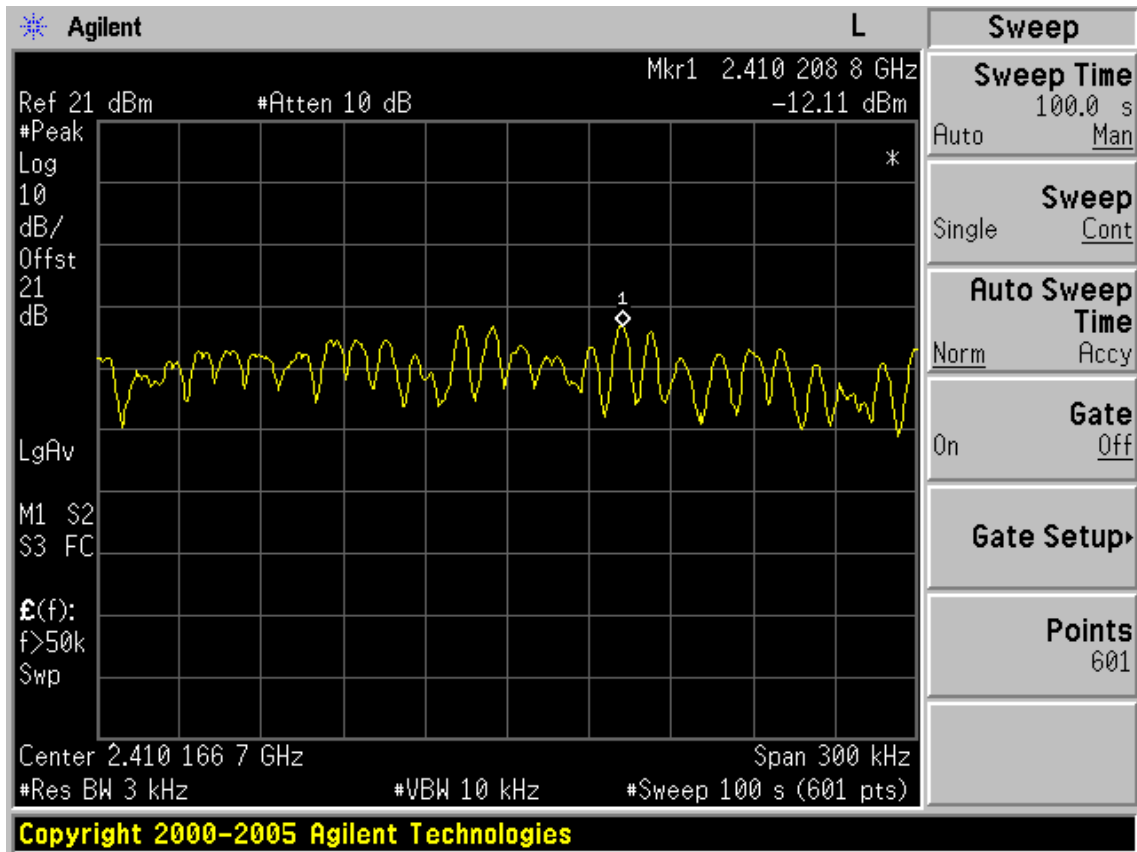
Test Mode: IEEE 802.11b TX



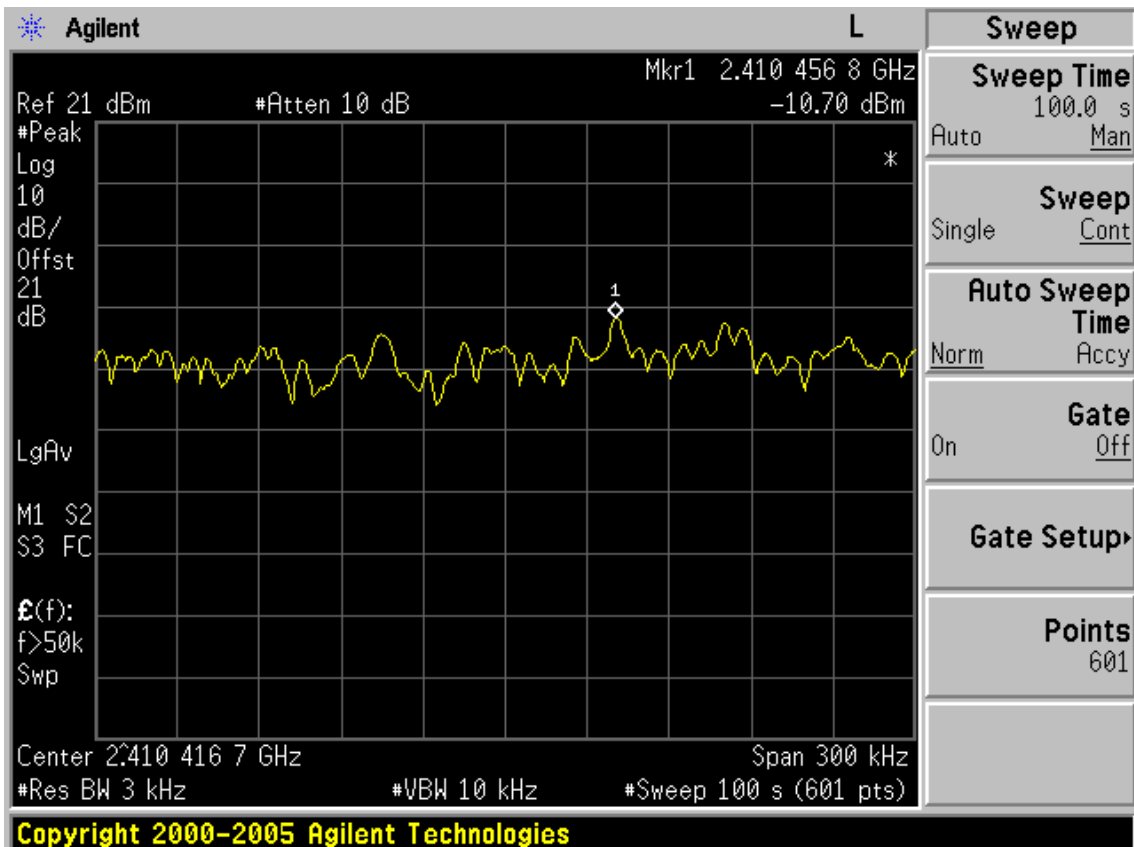
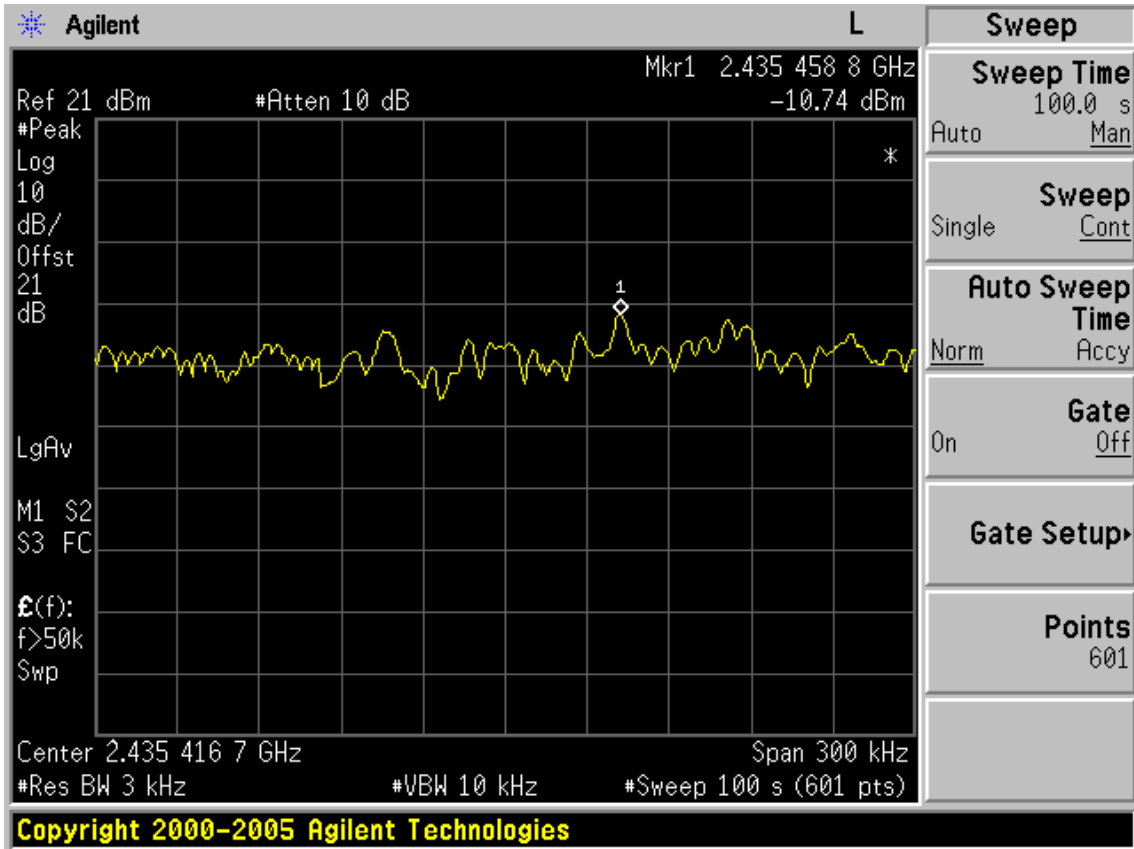


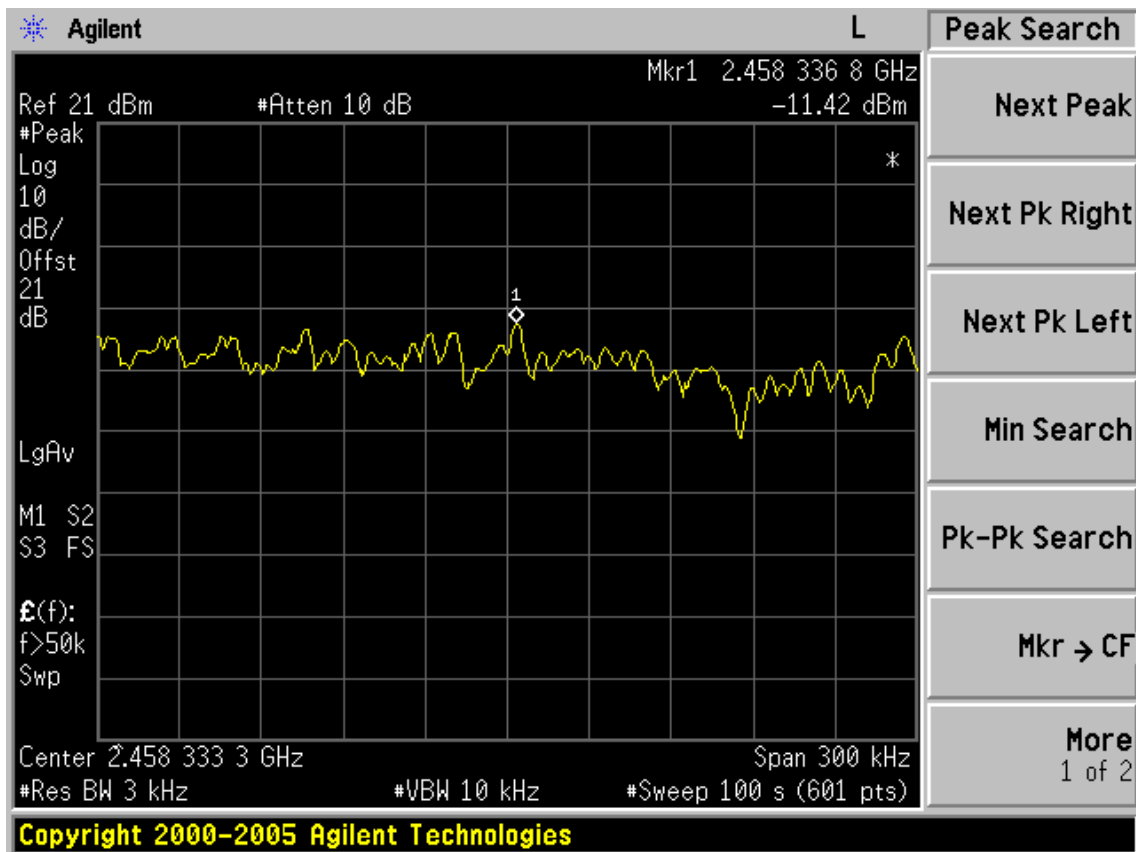
Test Mode: IEEE 802.11g TX



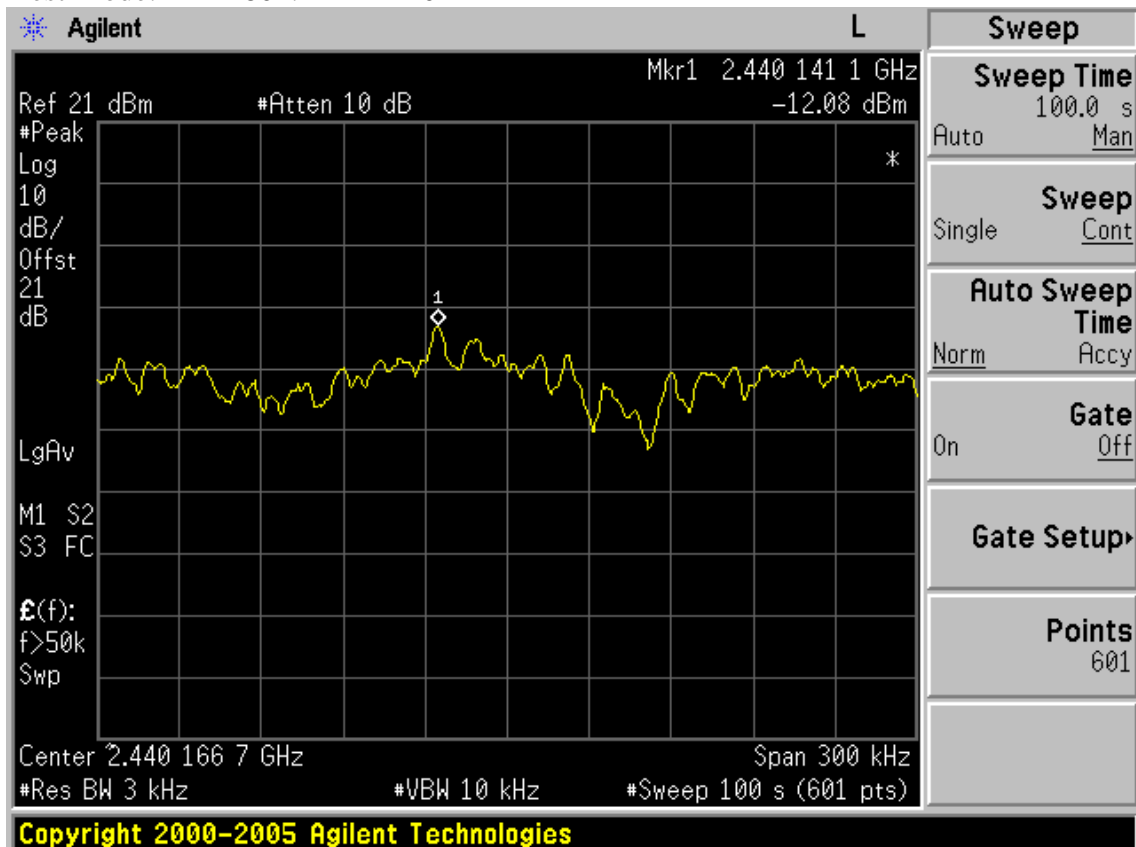


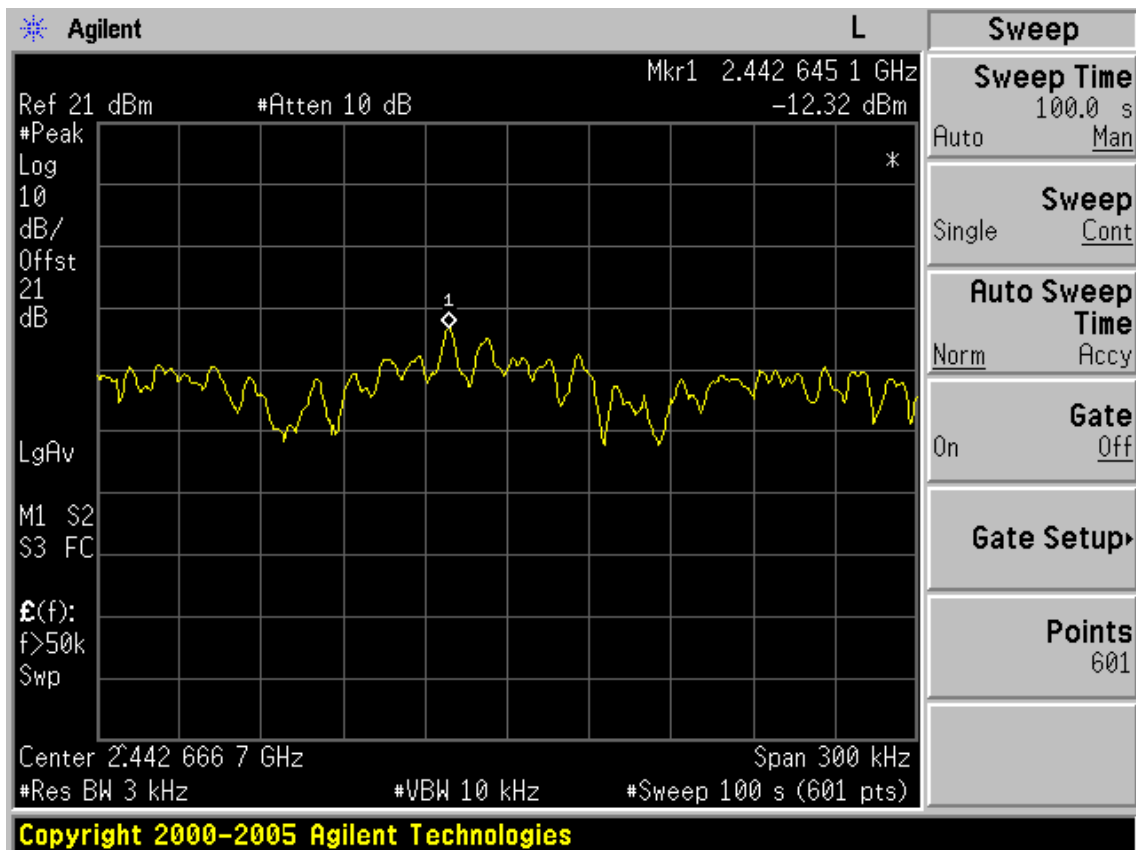
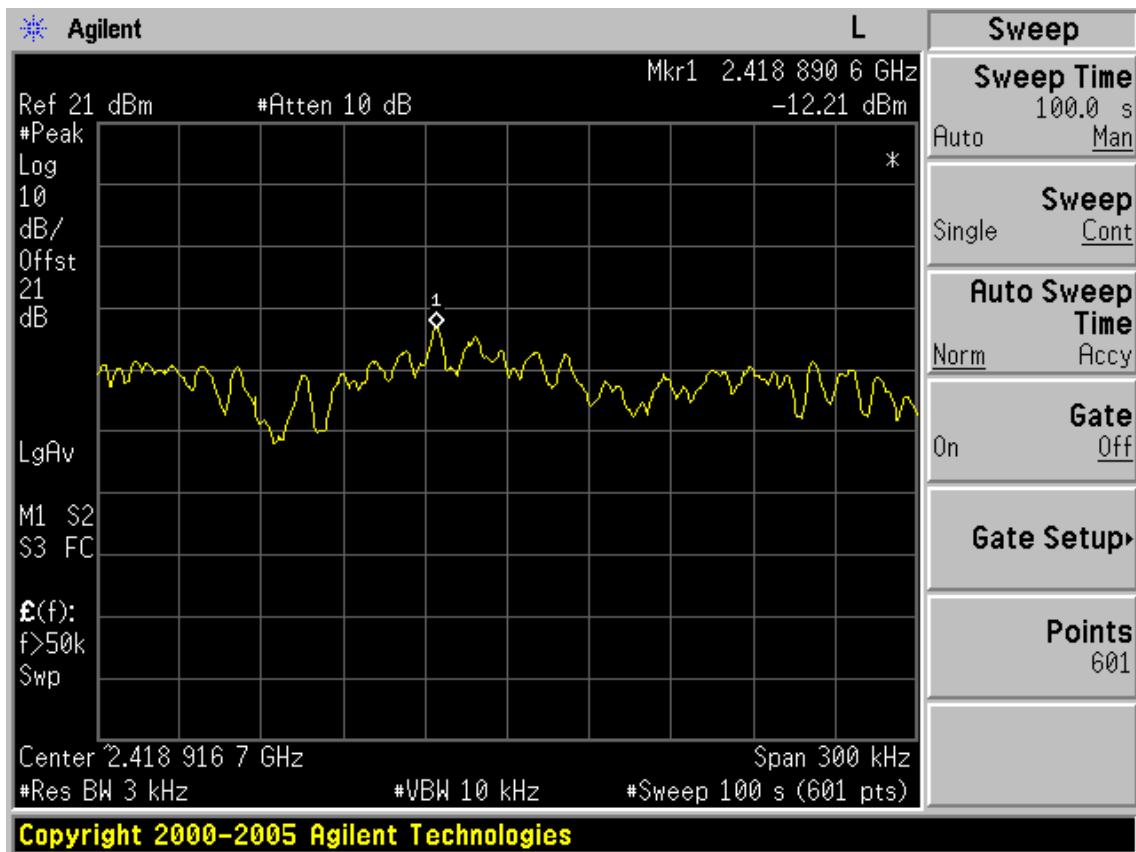
Test Mode: IEEE 802.11n HT20 TX





Test Mode: IEEE 802.11n HT40 TX





10. ANTENNA REQUIREMENT

10.1. STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are integrated patch MIMO 1TX2R and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 0dBi.

11. DEVIATION TO TEST SPECIFICATIONS

[NONE]