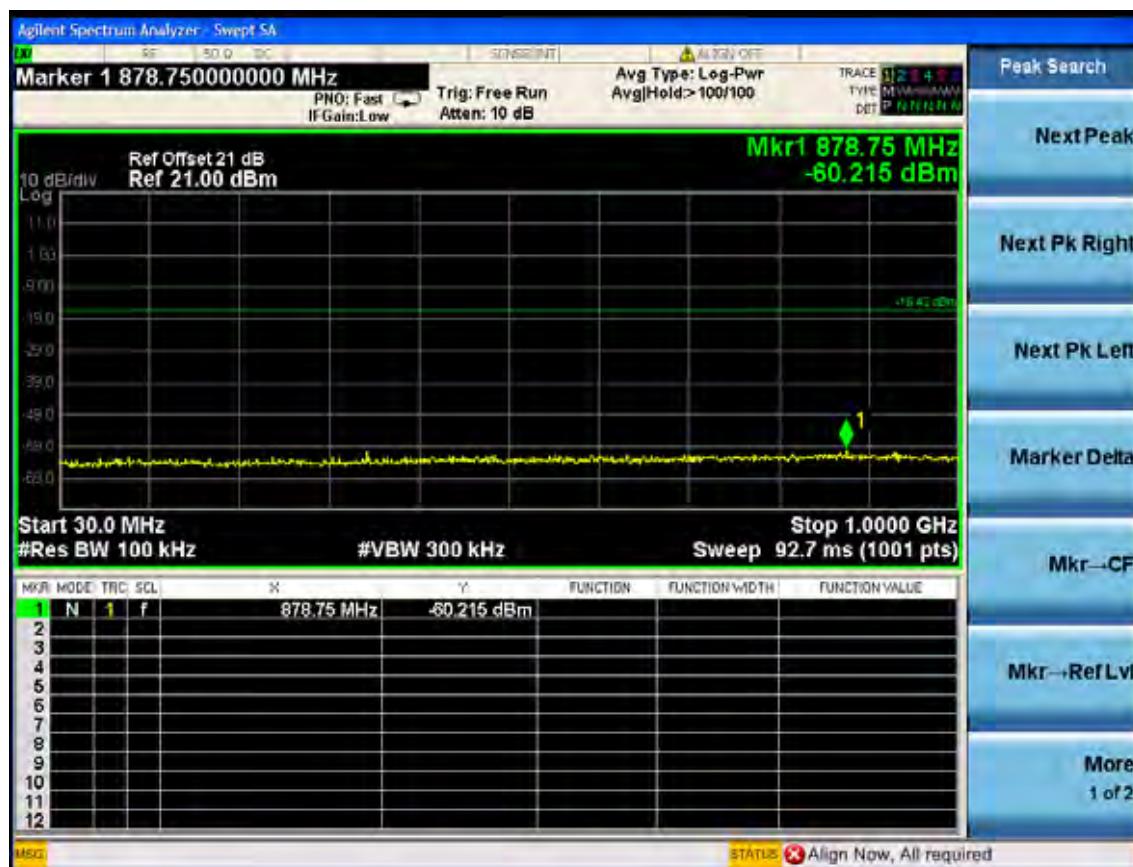
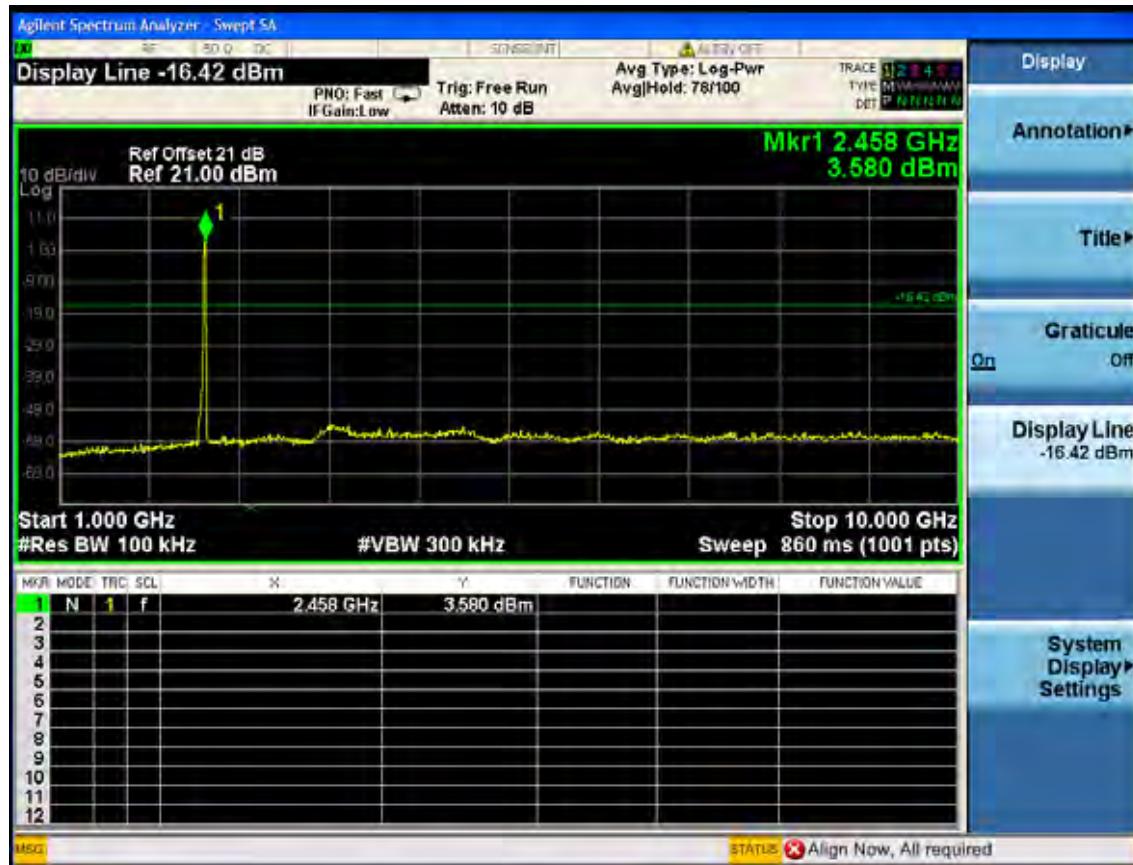
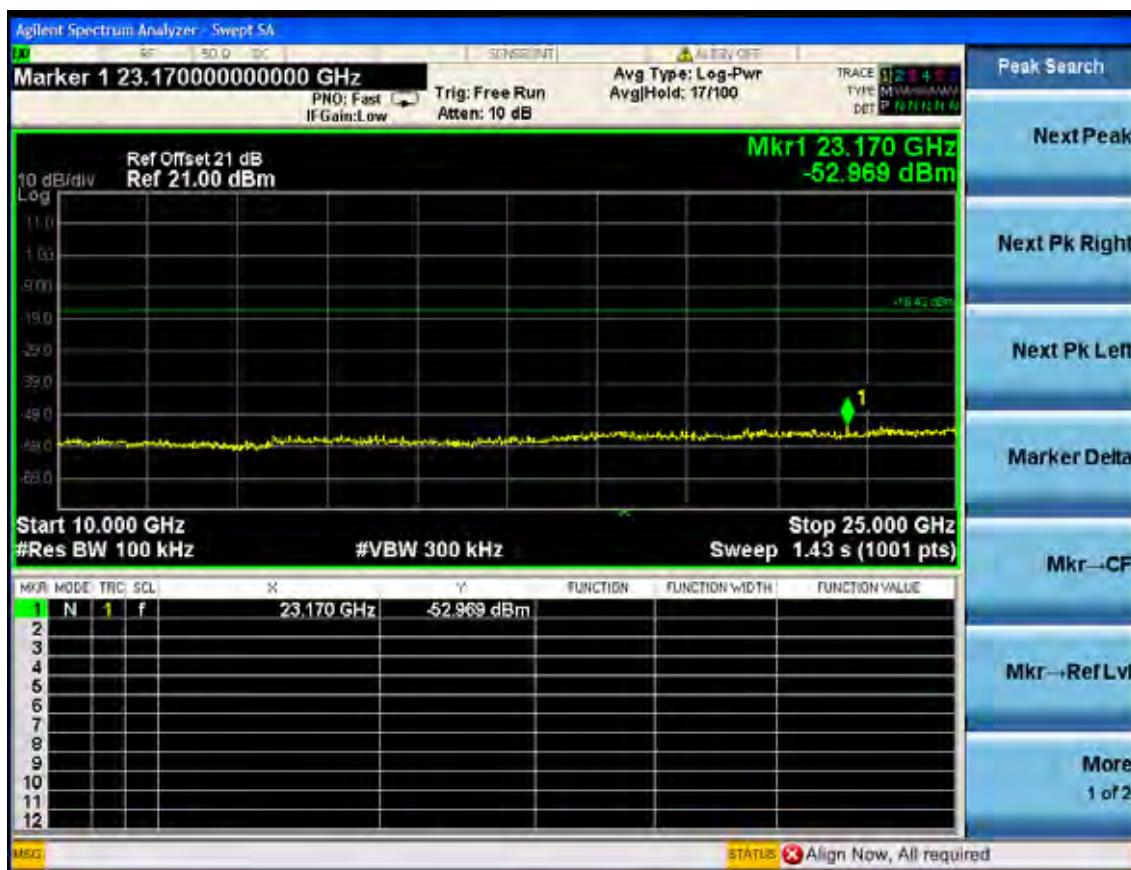


Test CH7: 2452MHz

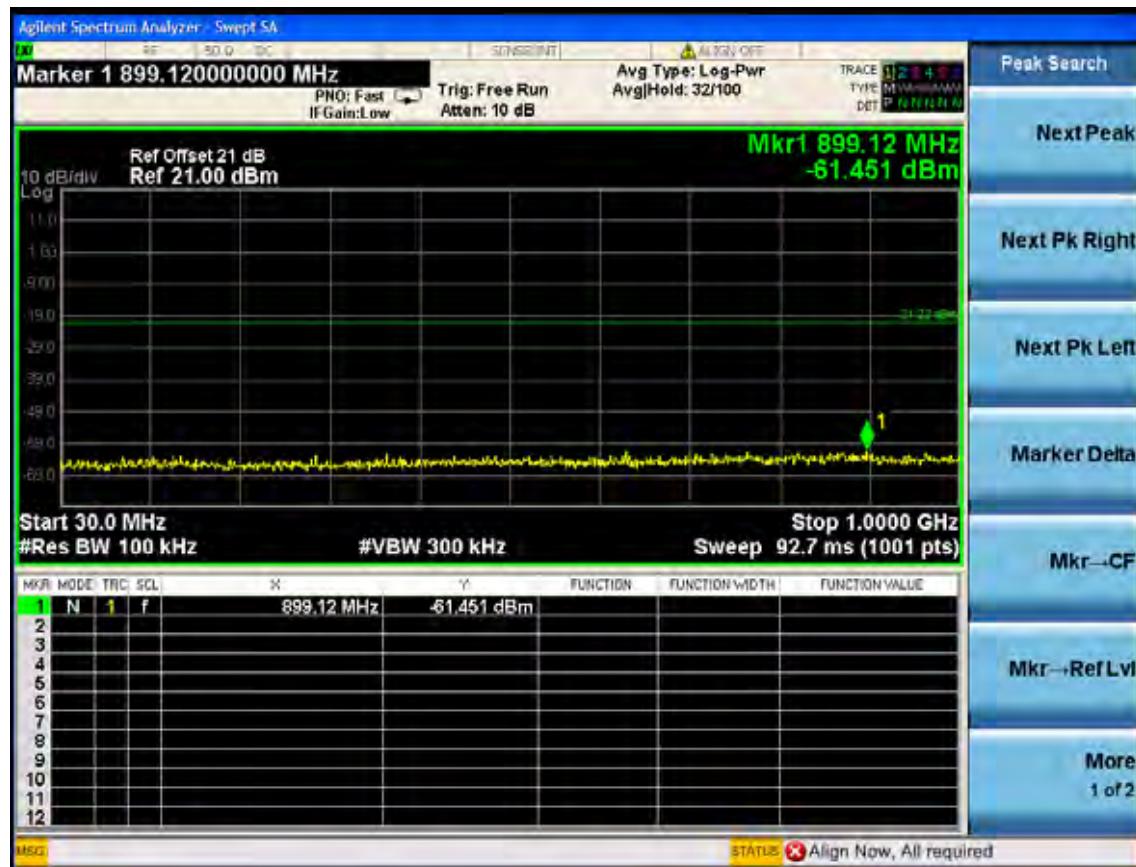
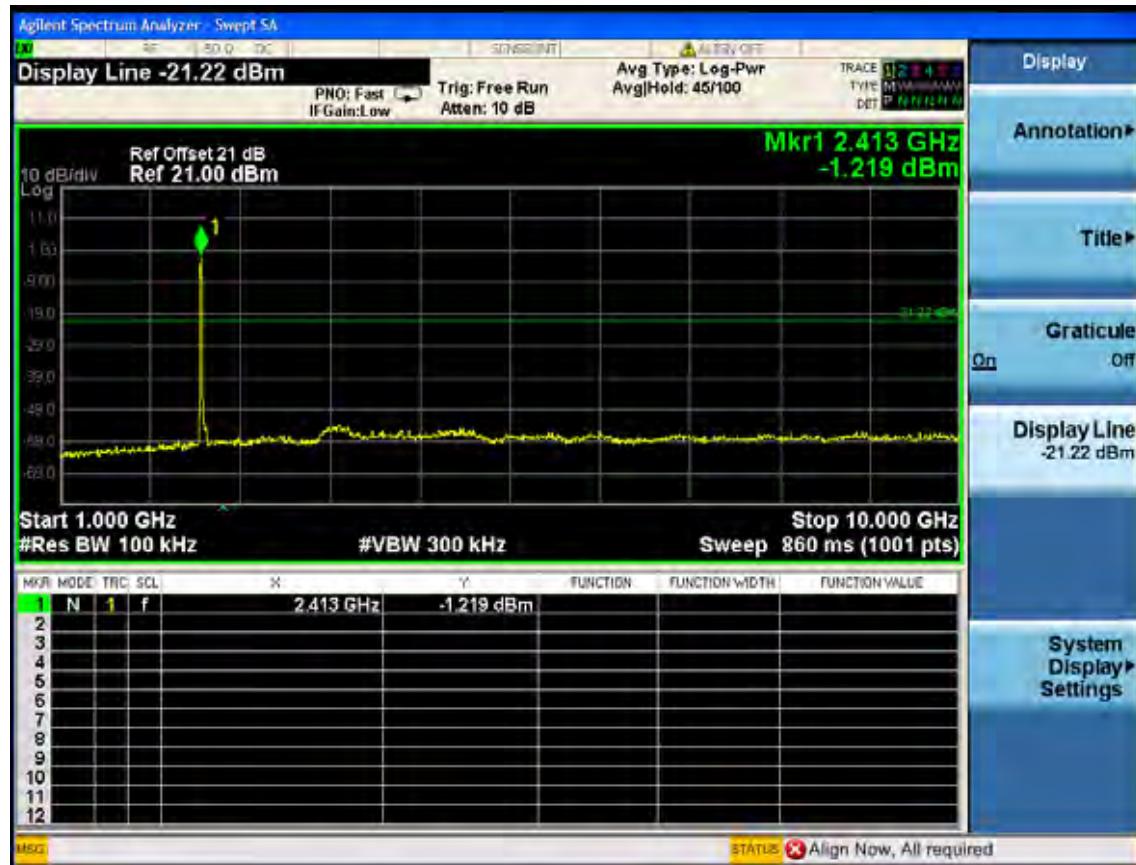


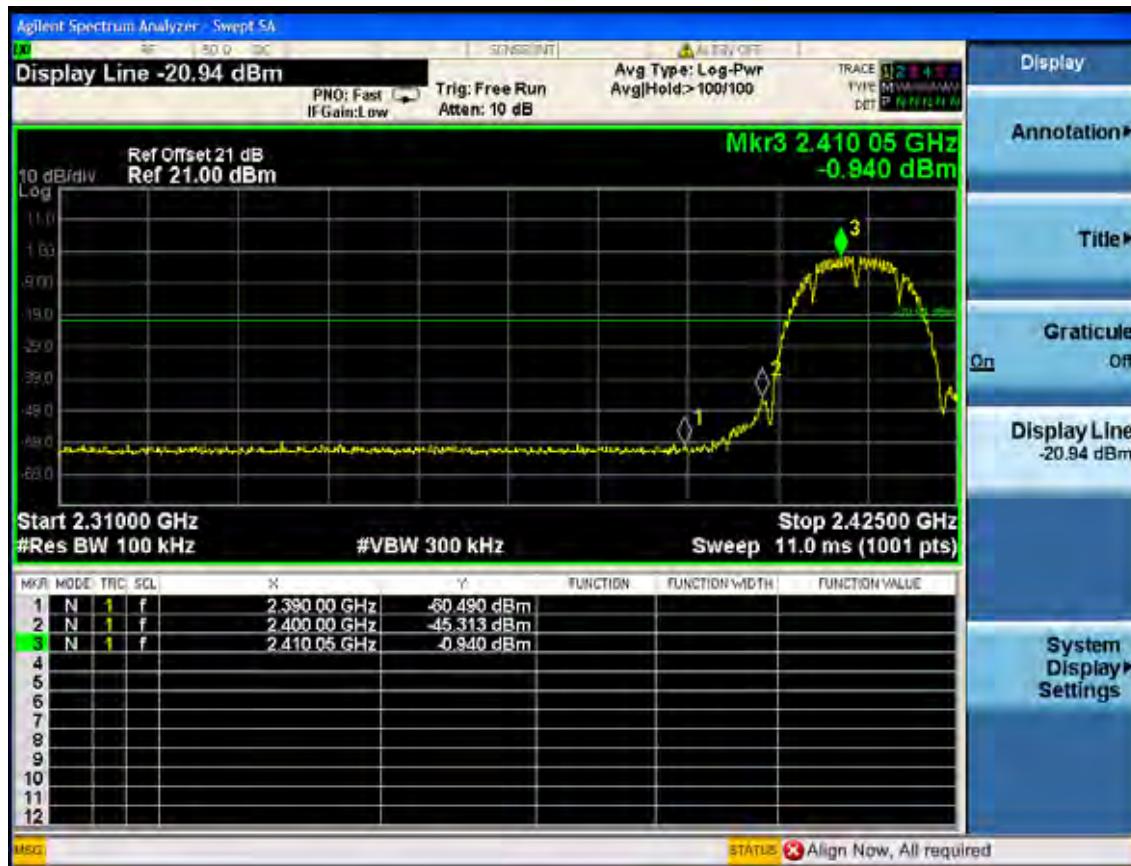
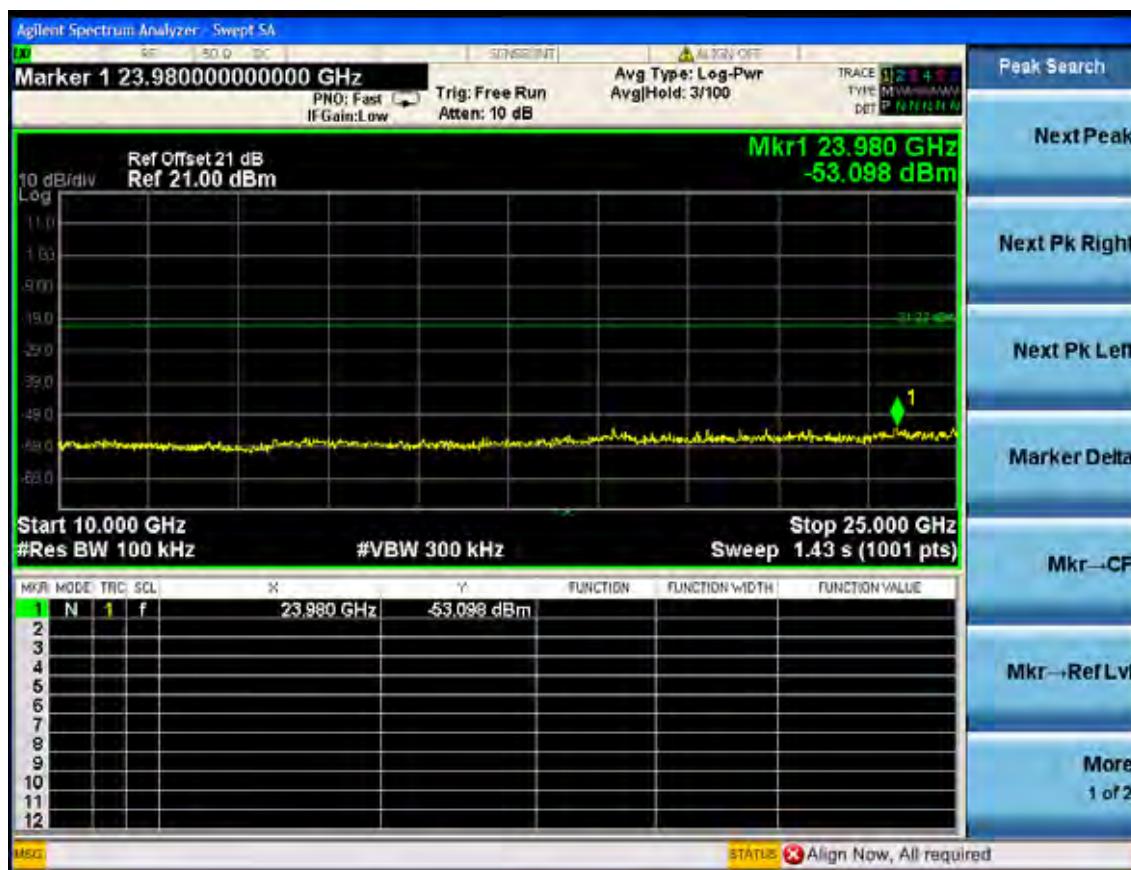


Chain 2:

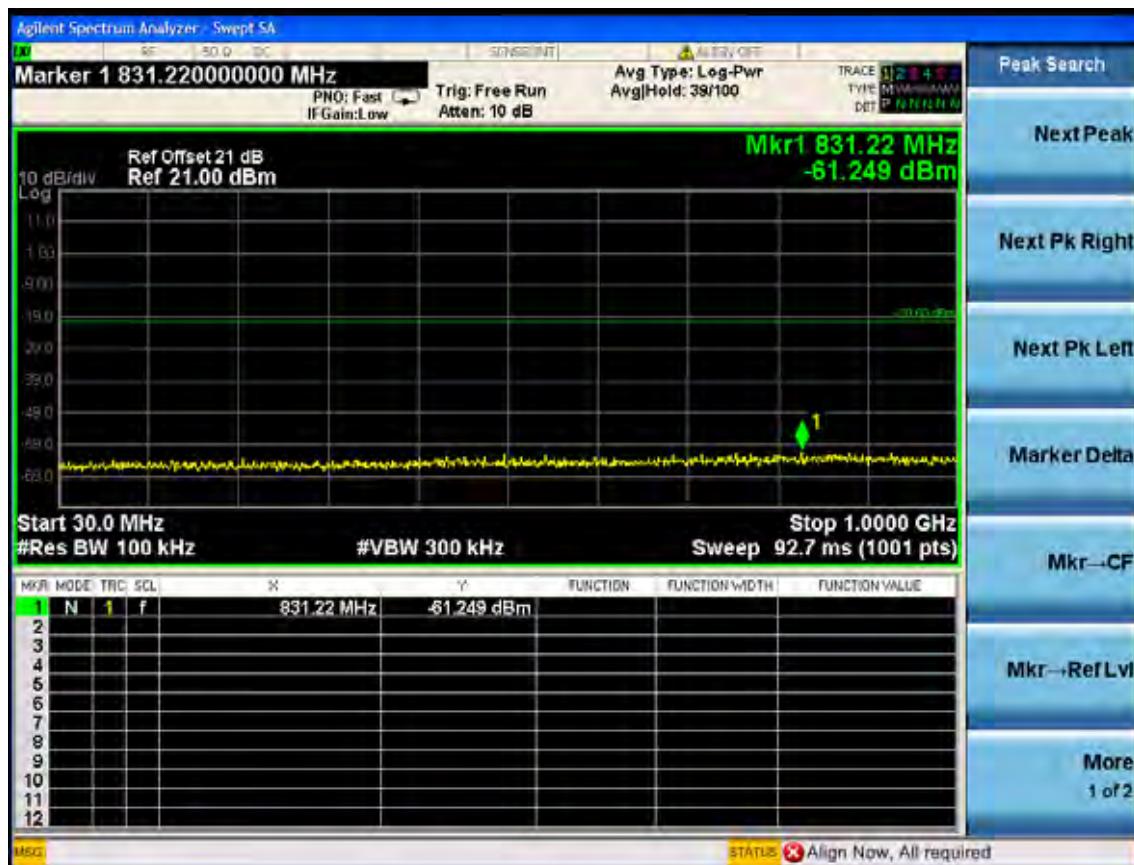
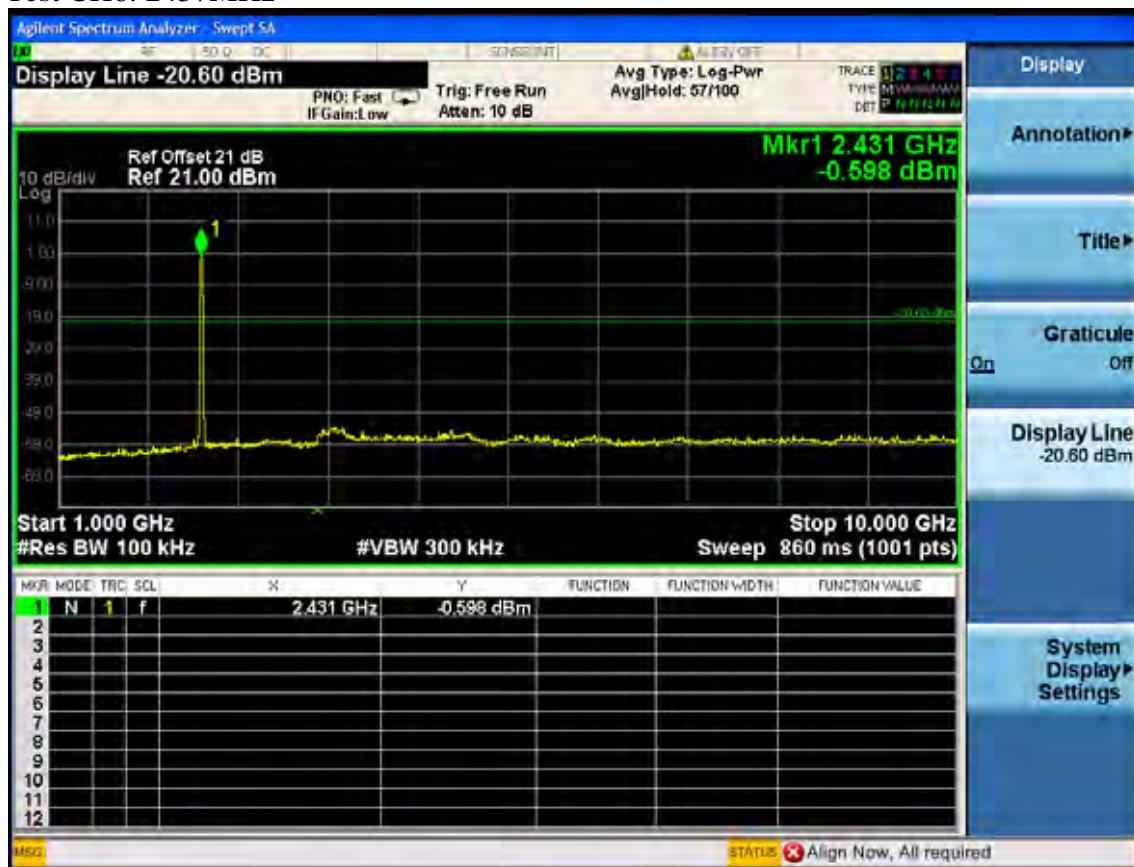
Test Mode: IEEE 802.11b TX

Test CH1: 2412MHz



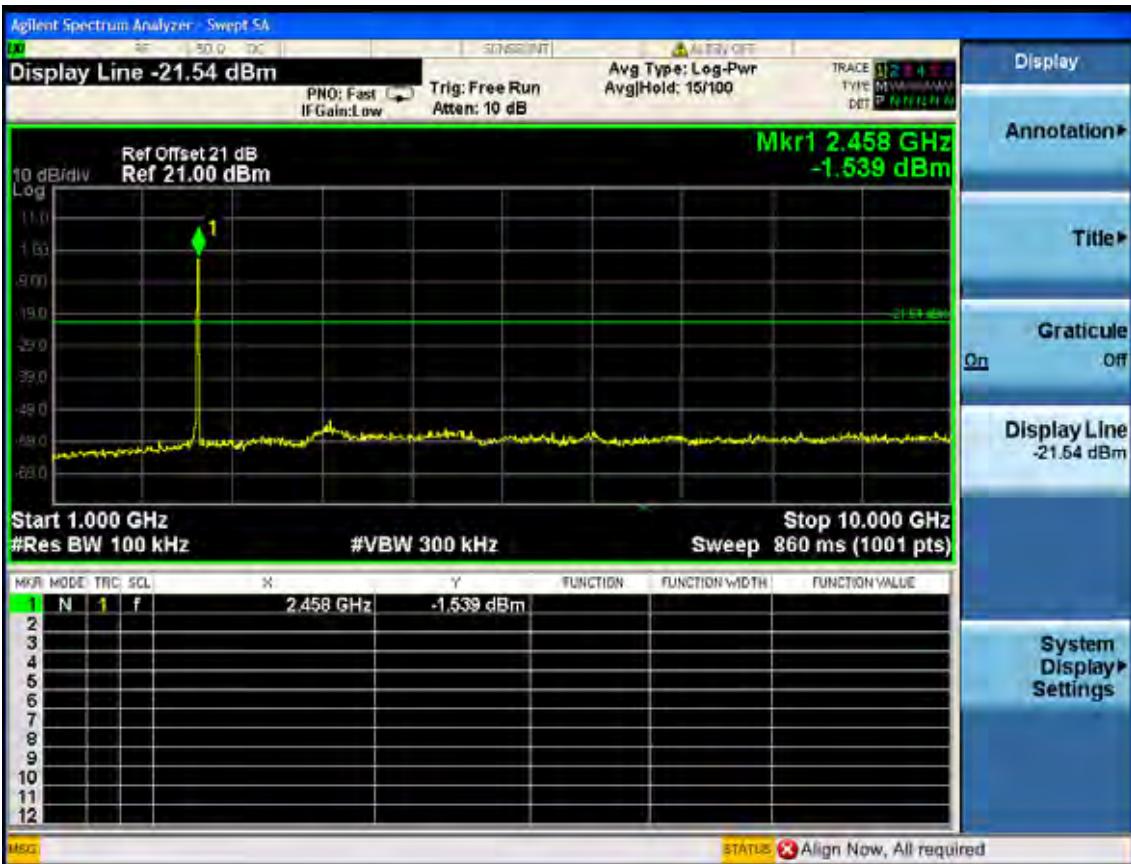


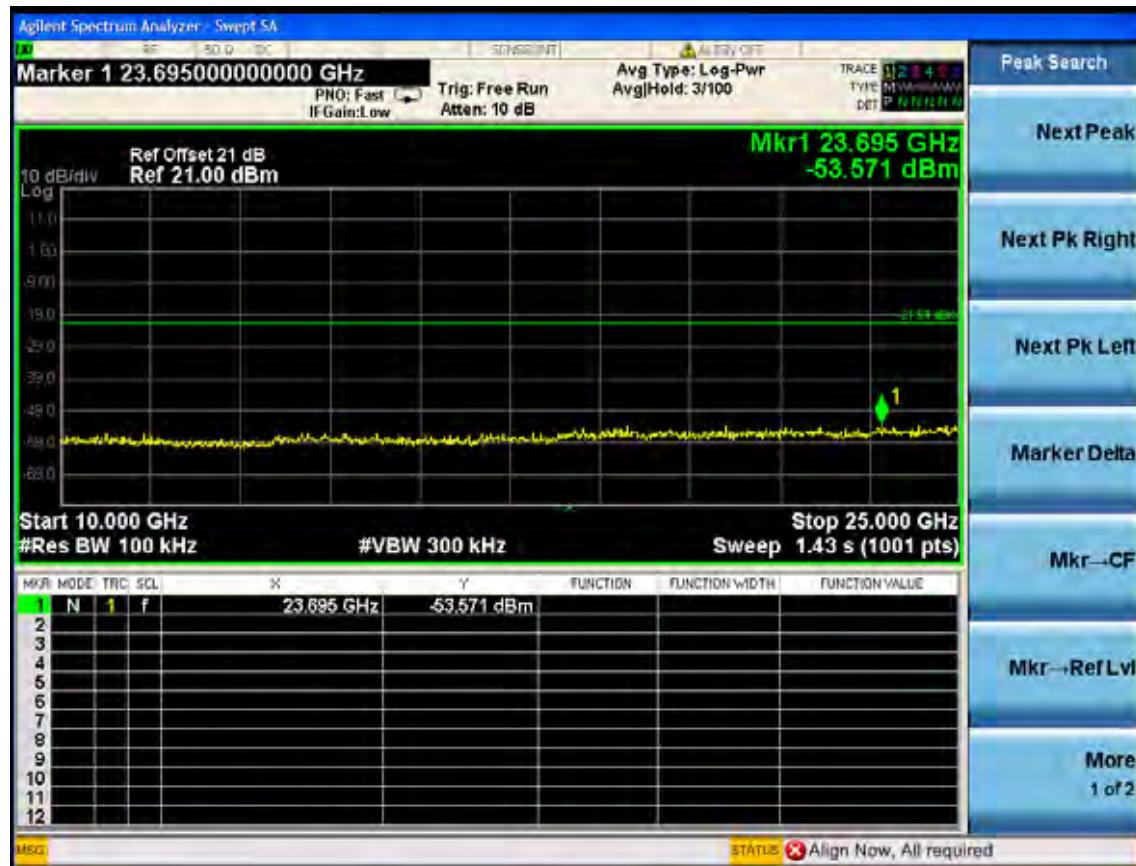
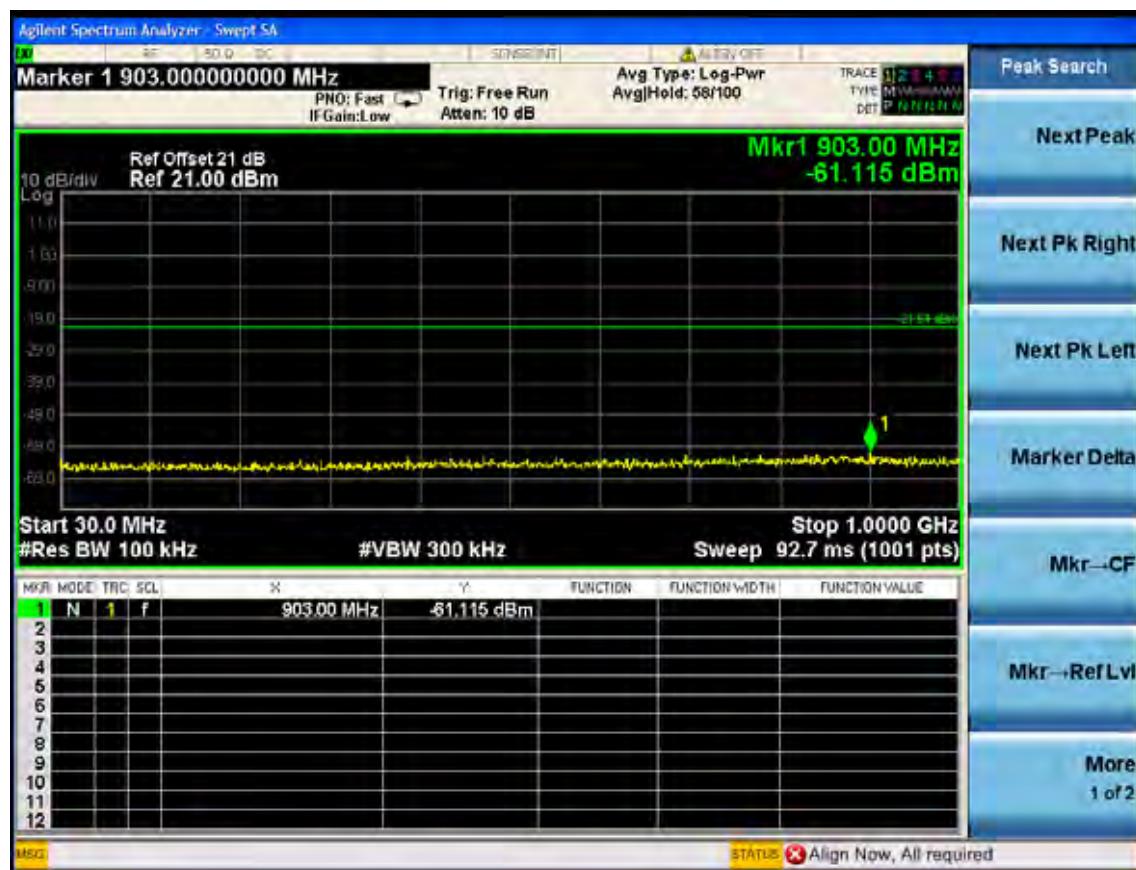
Test CH6: 2437MHz





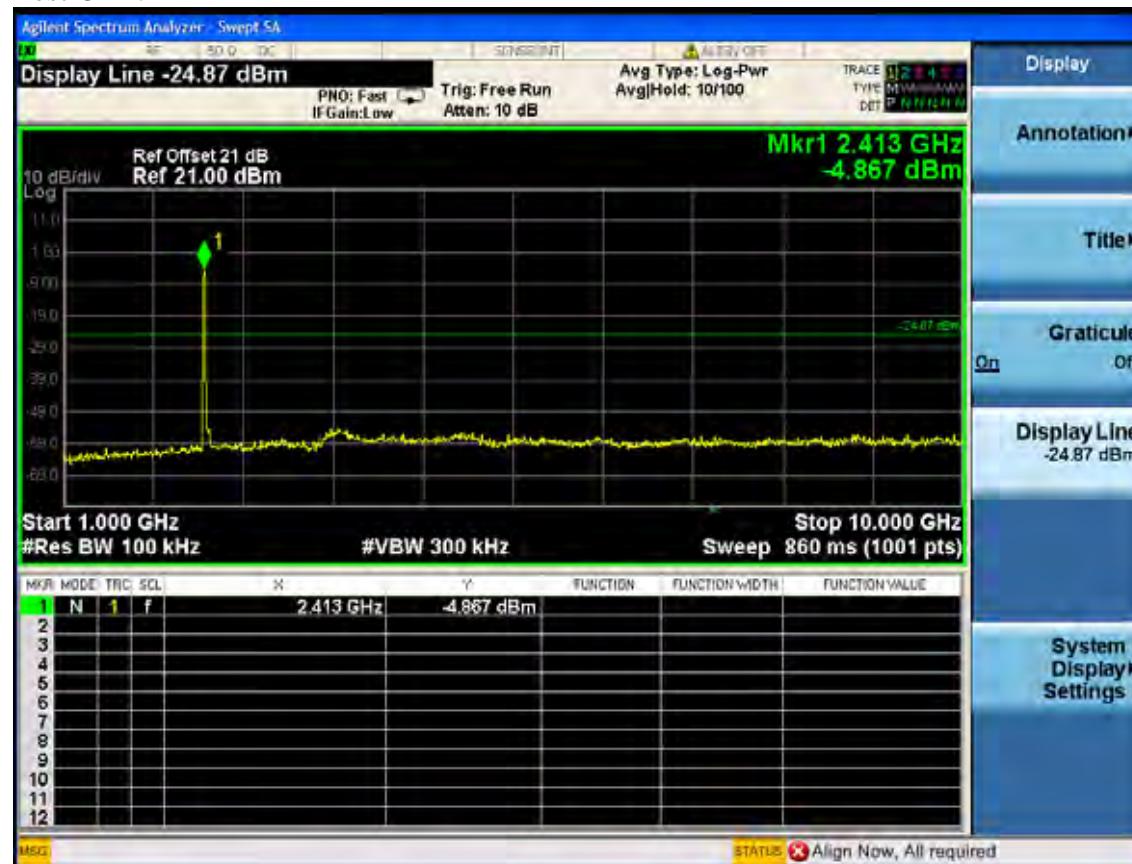
Test CH11: 2462MHz

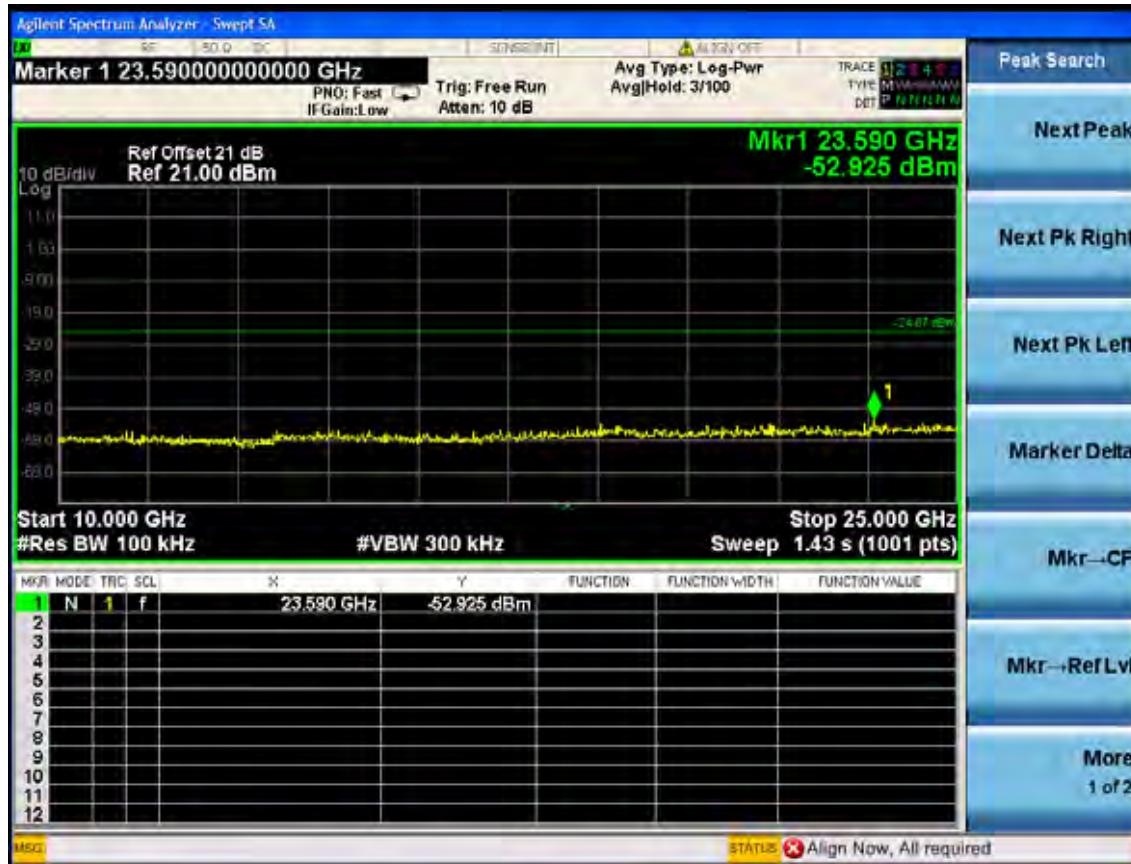
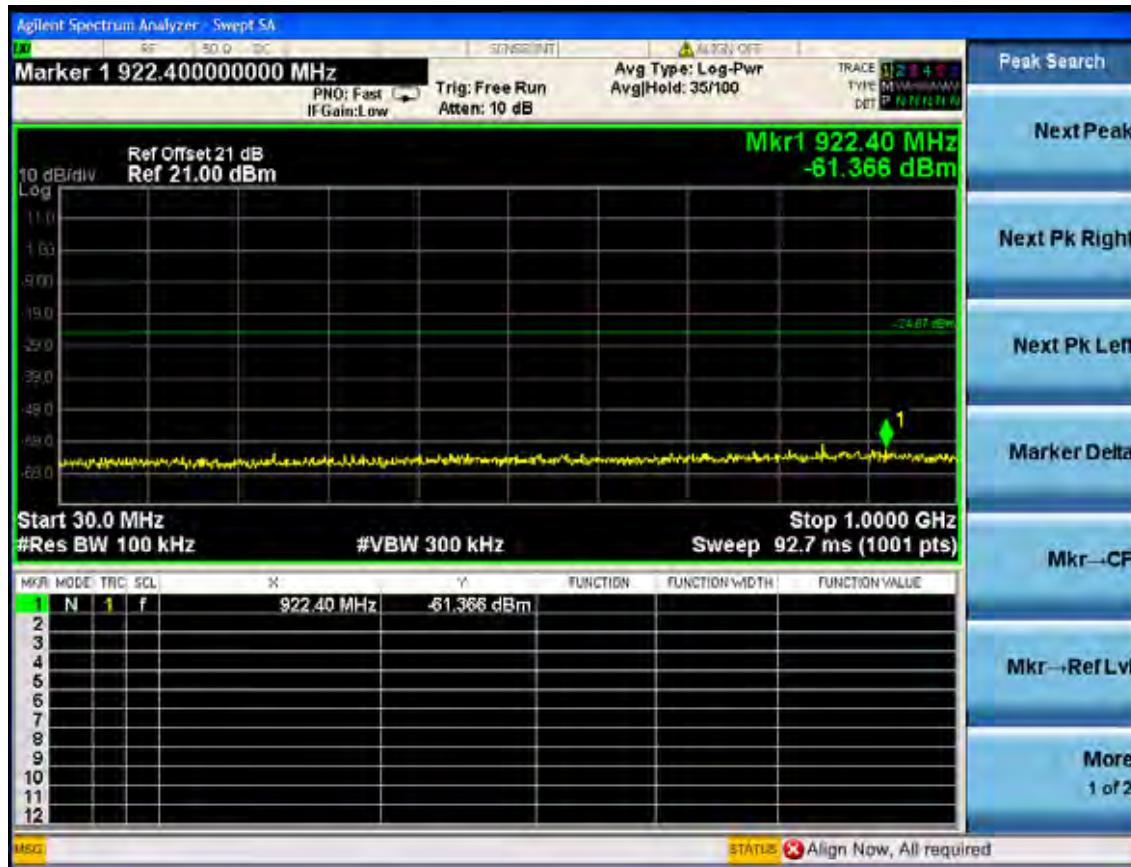






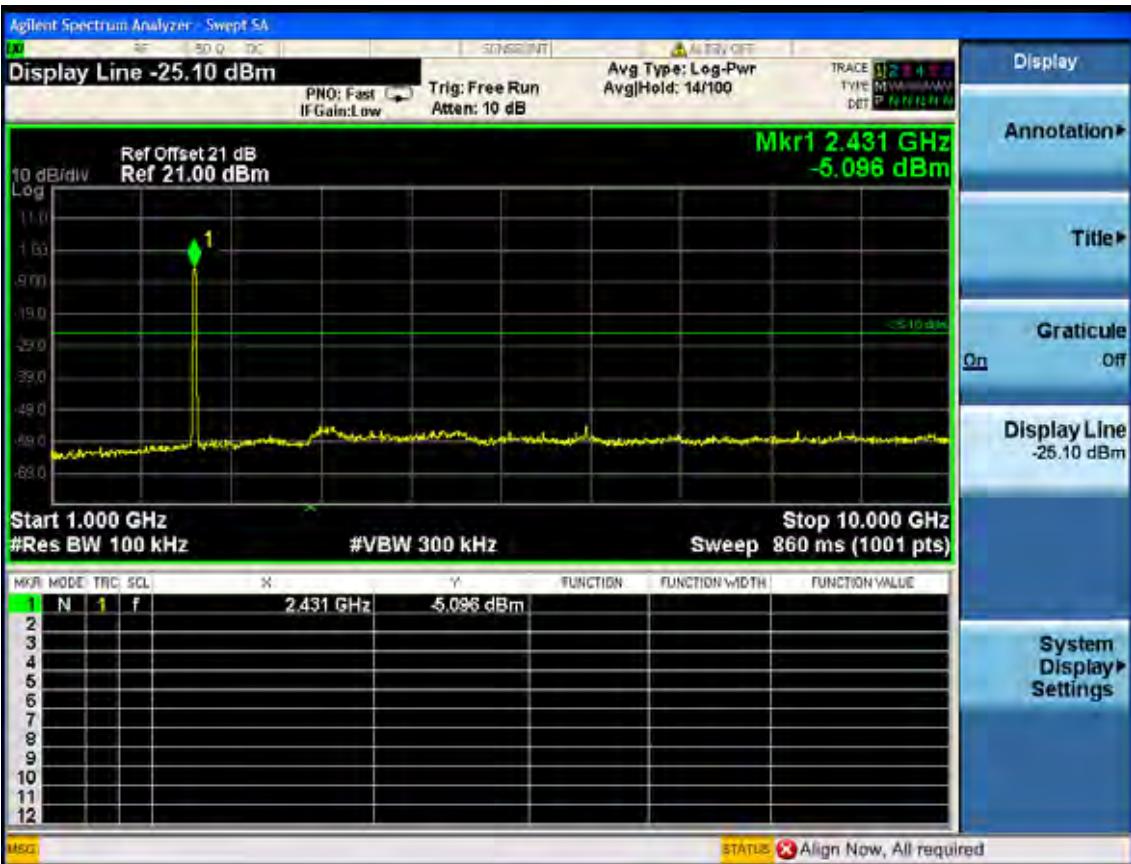
Test Mode: IEEE 802.11g TX
Test CH1: 2412MHz

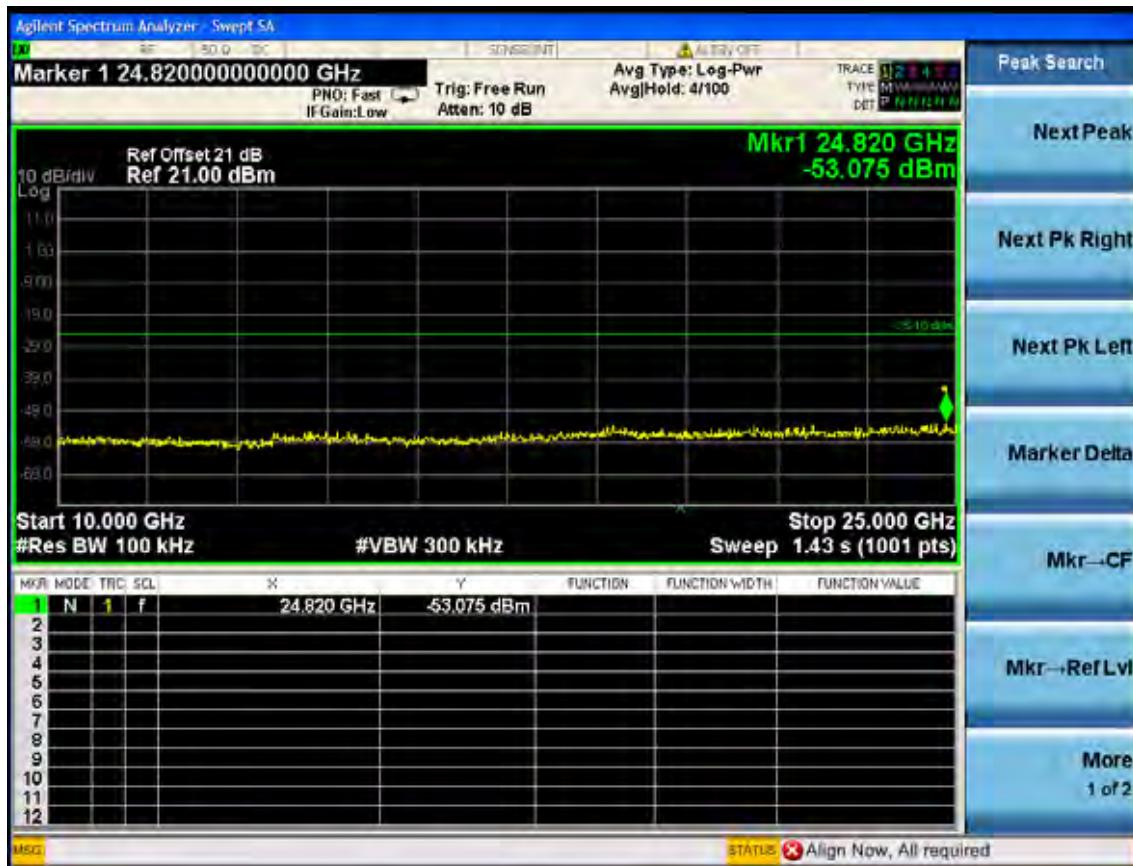
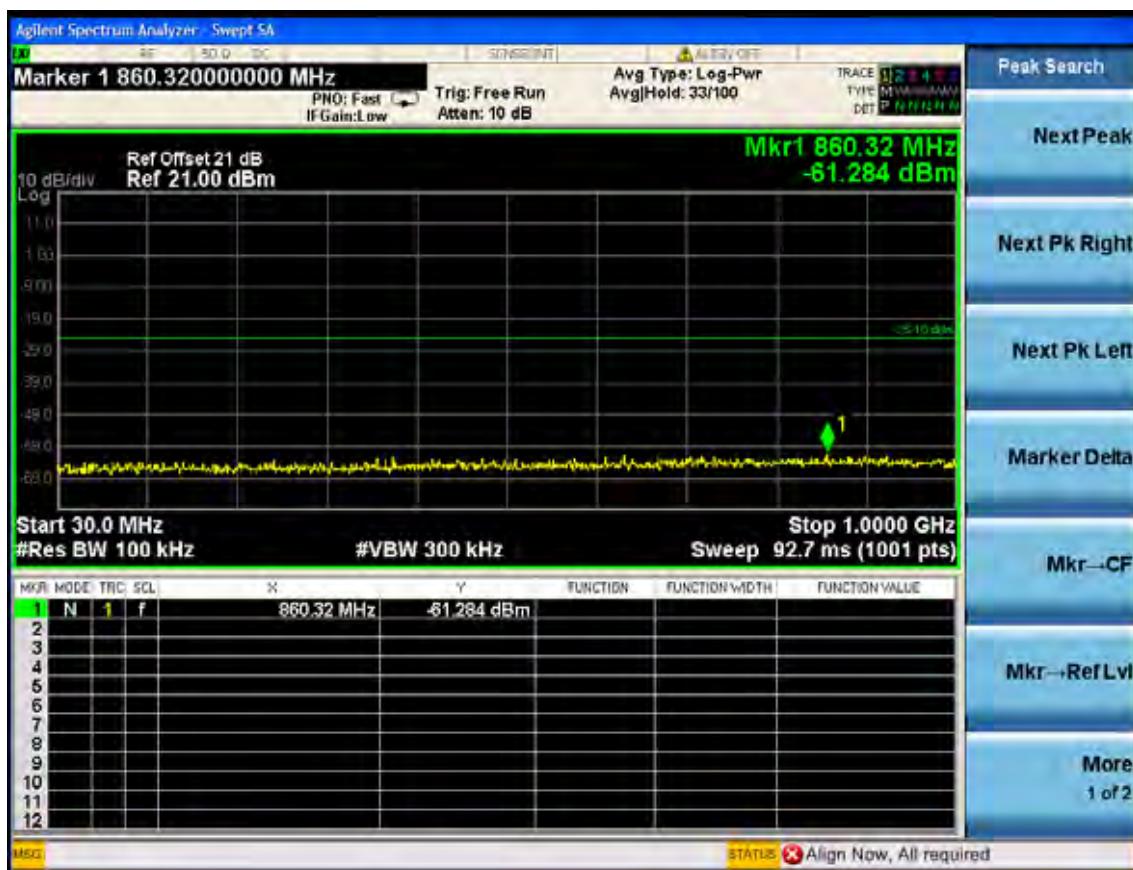




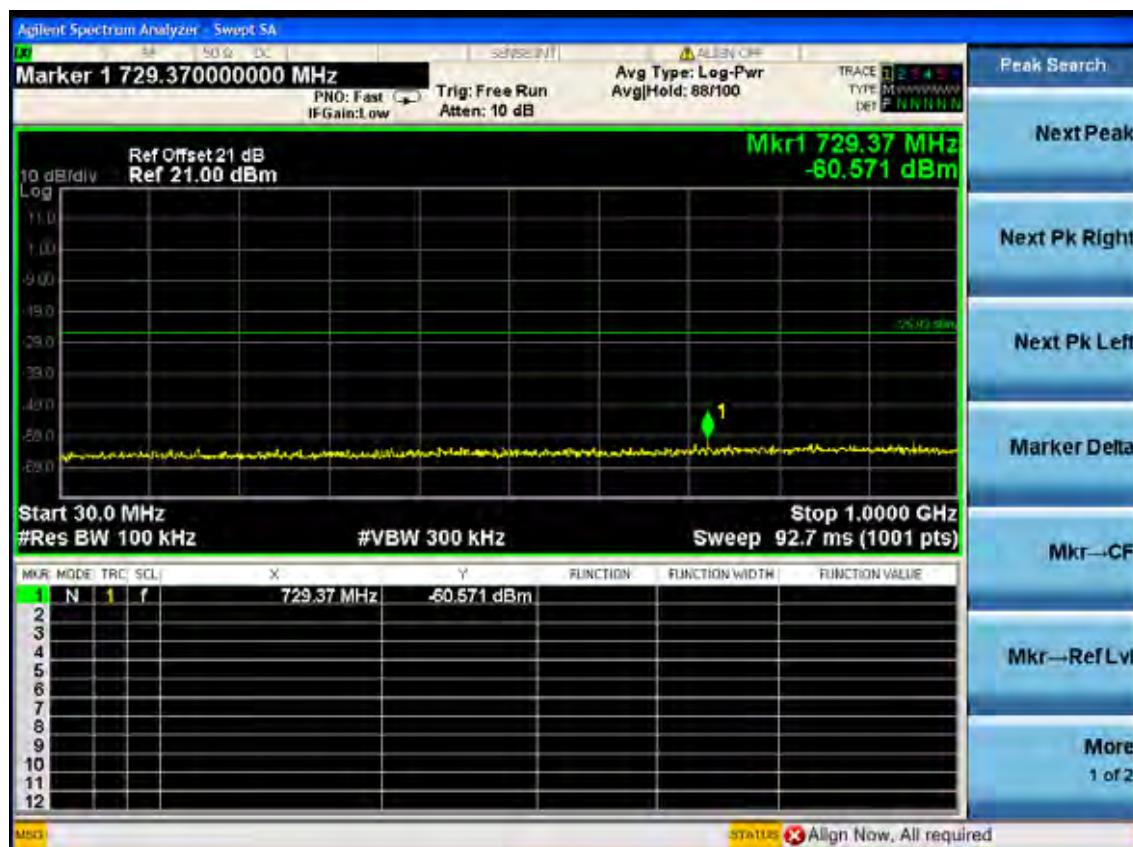
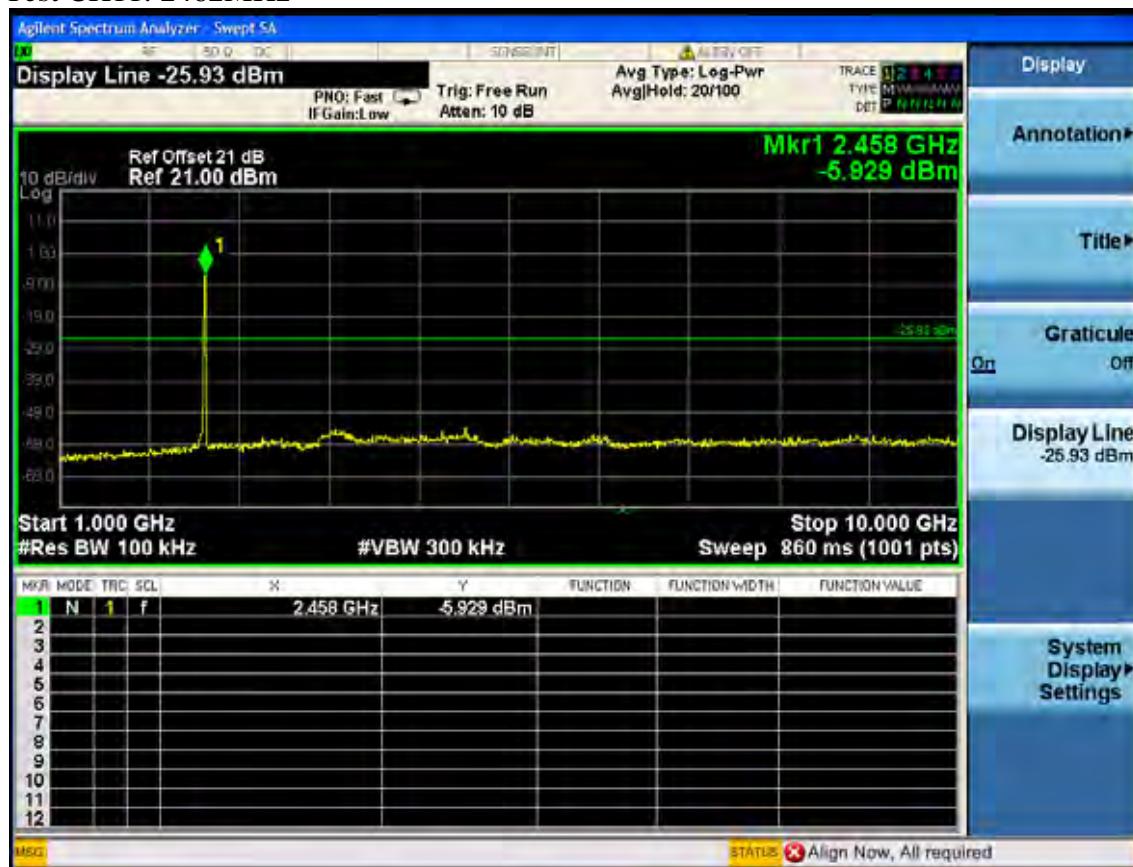


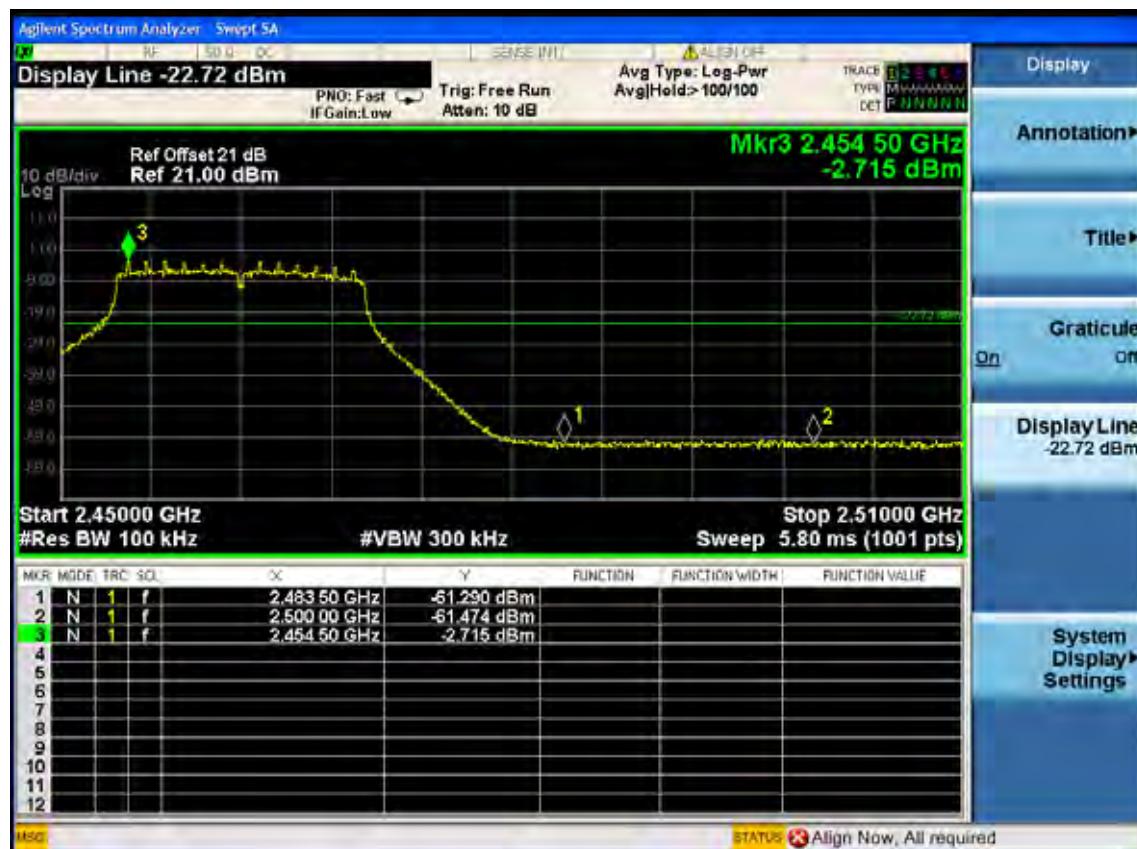
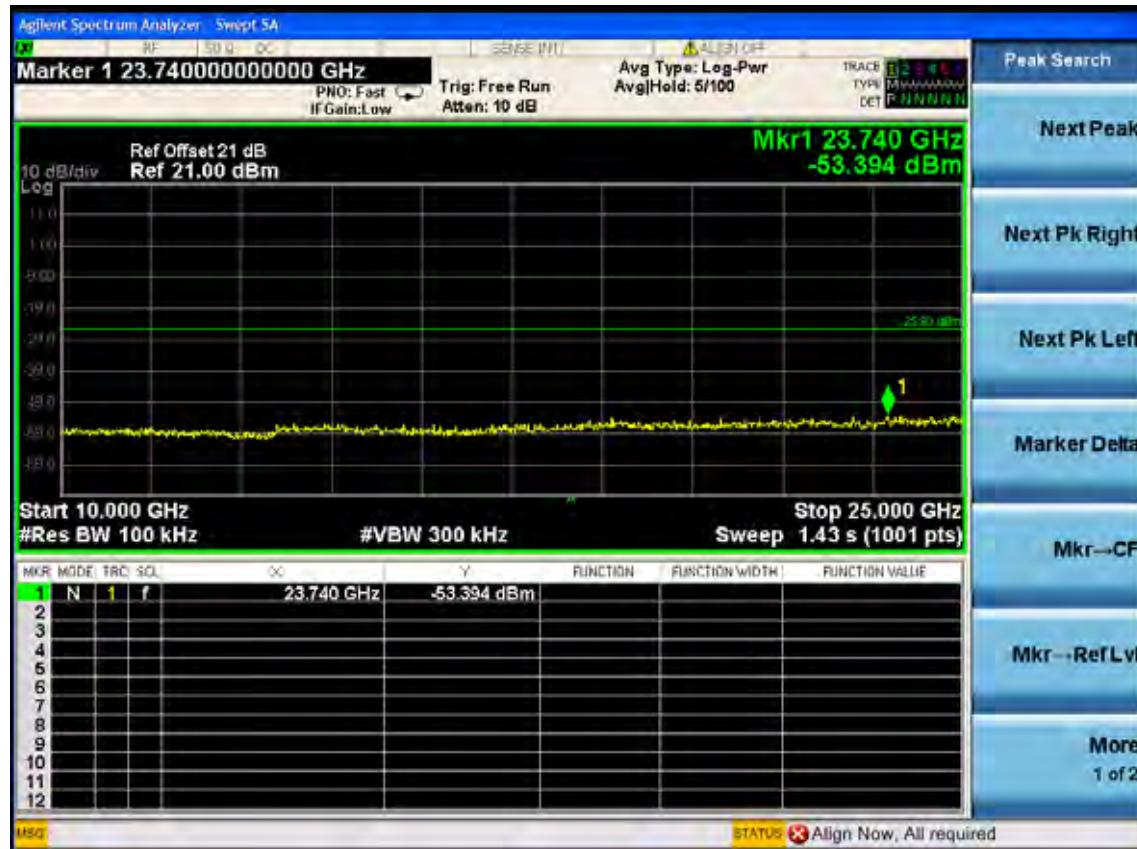
Test CH6: 2437MHz





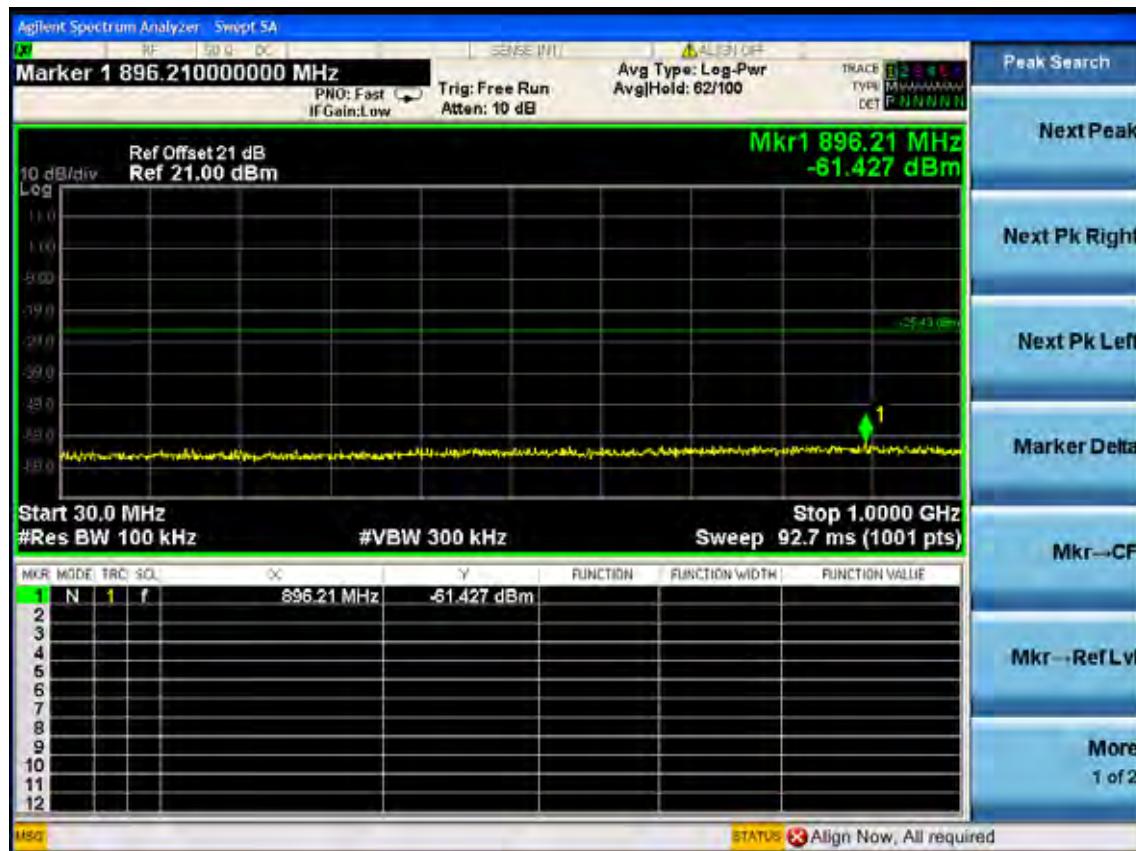
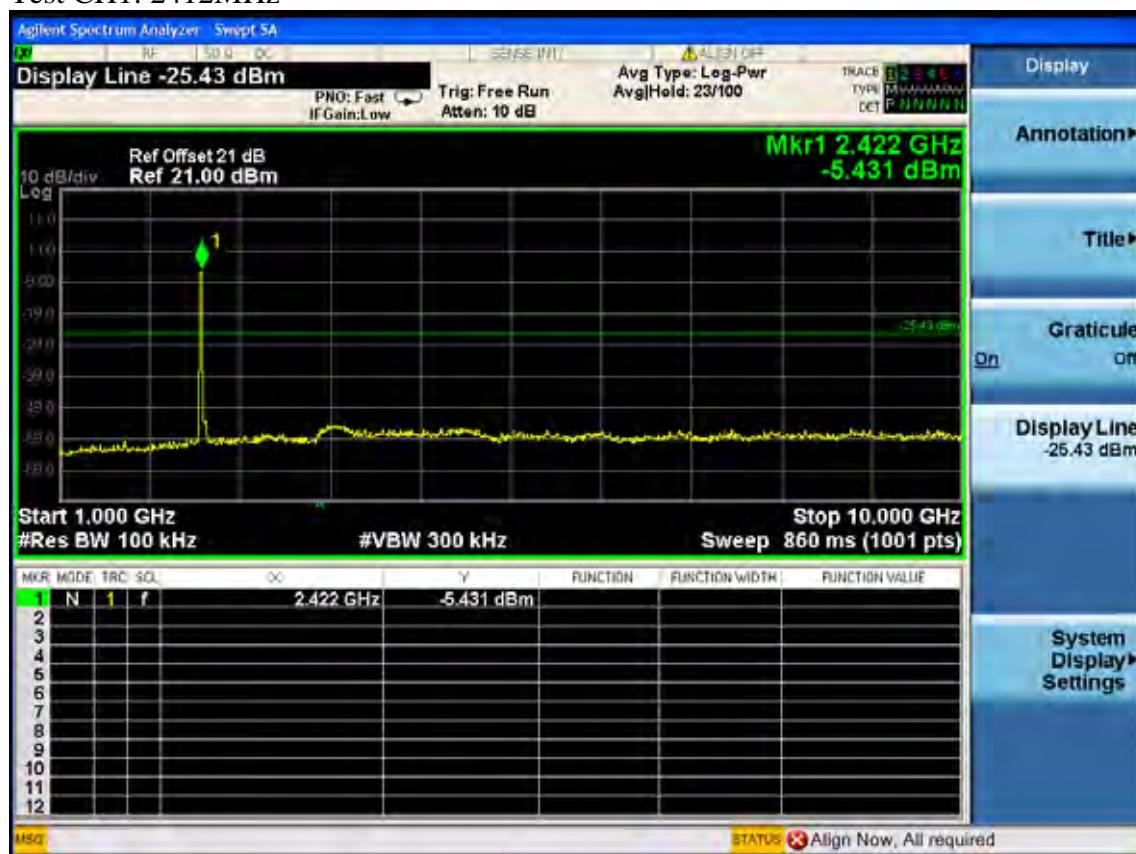
Test CH11: 2462MHz

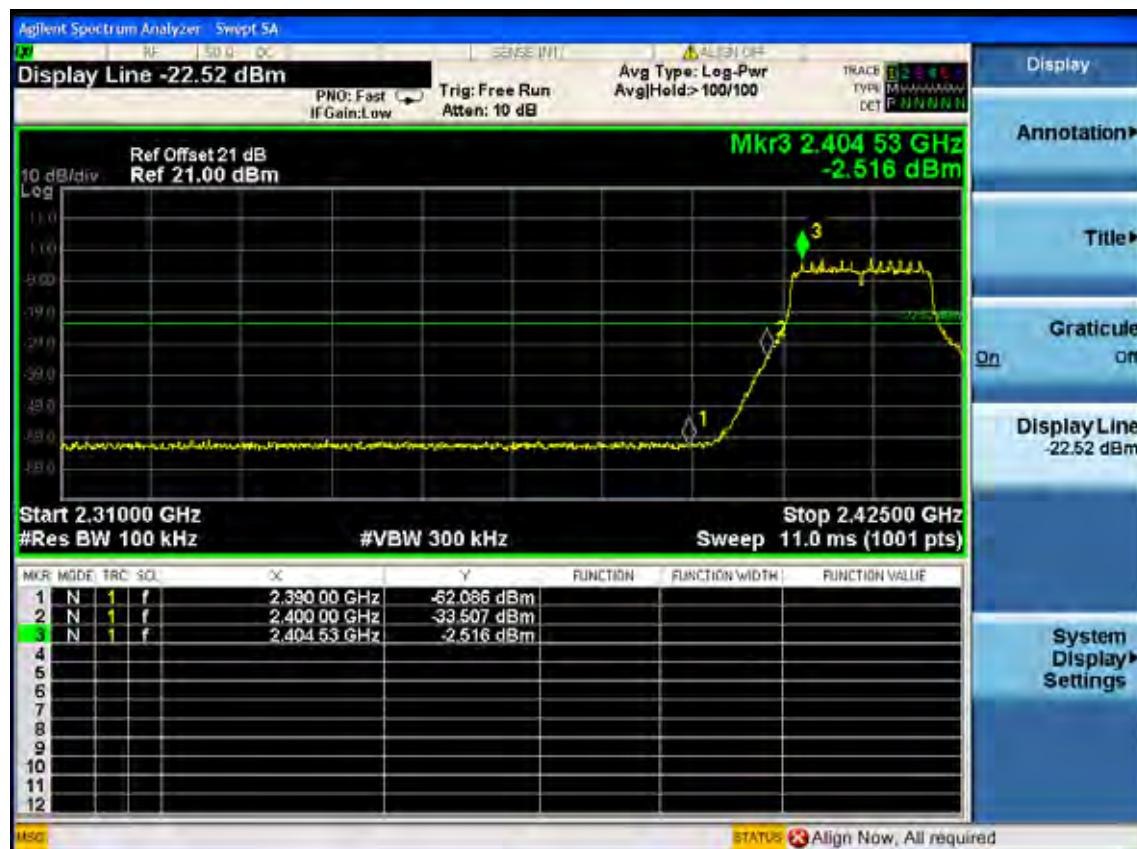
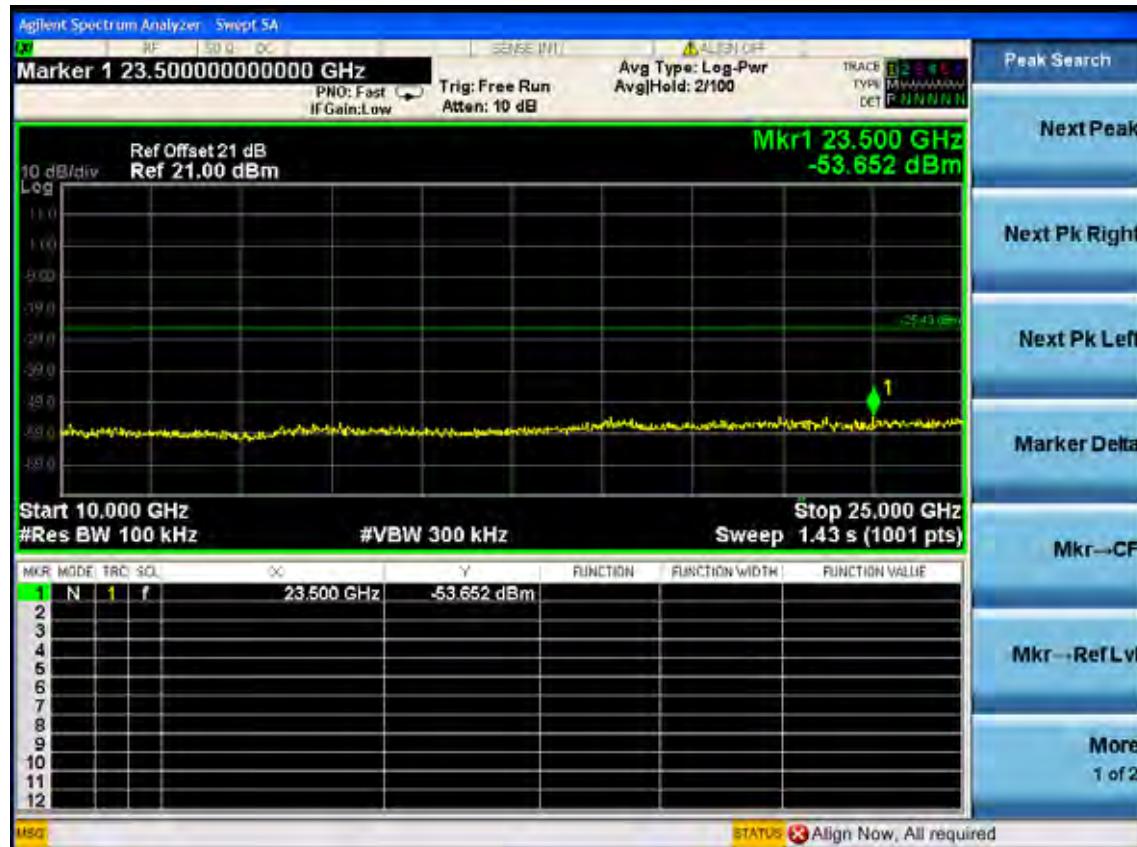




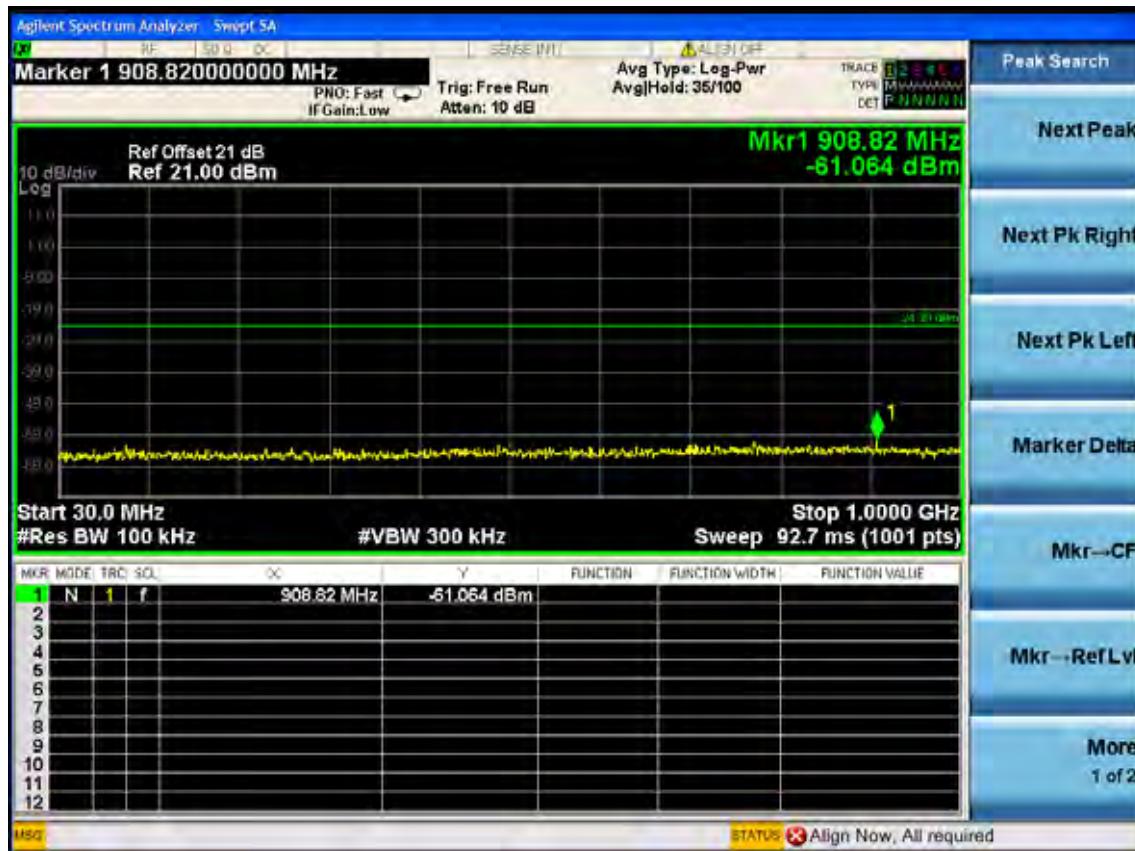
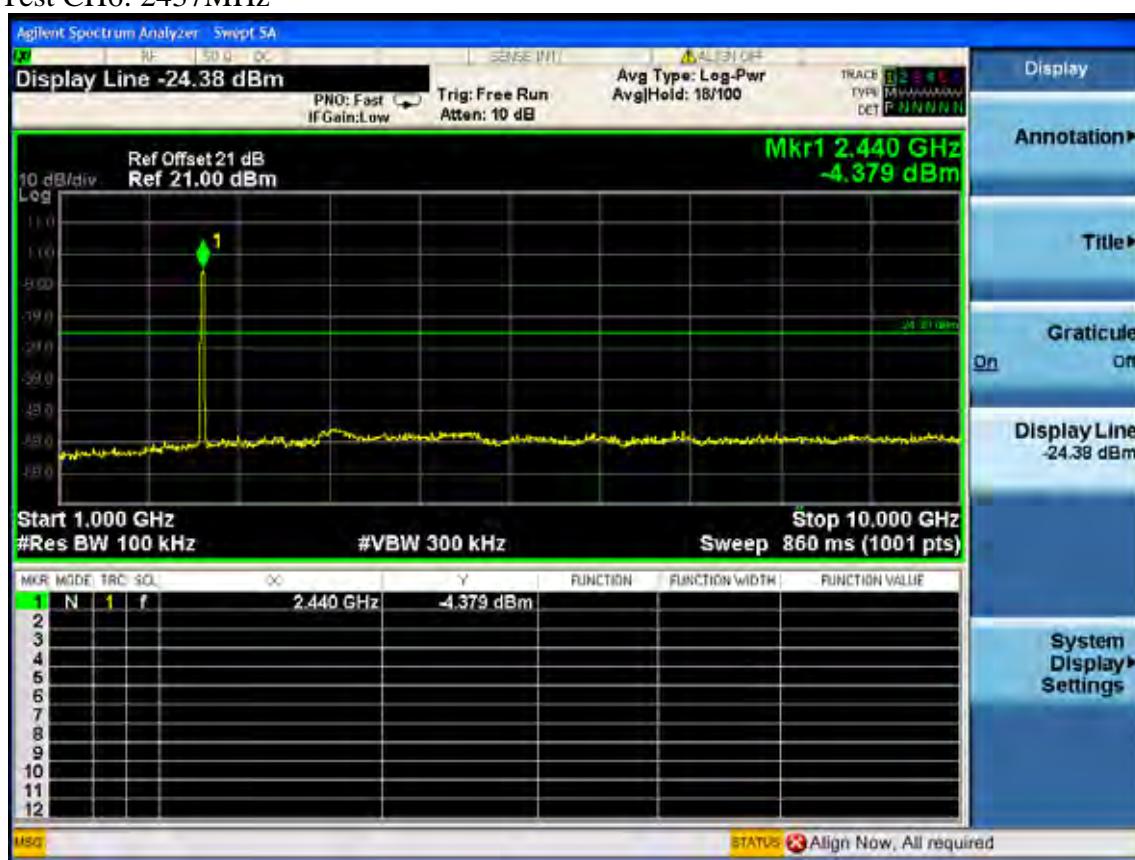
Test Mode: IEEE 802.11n HT20 TX

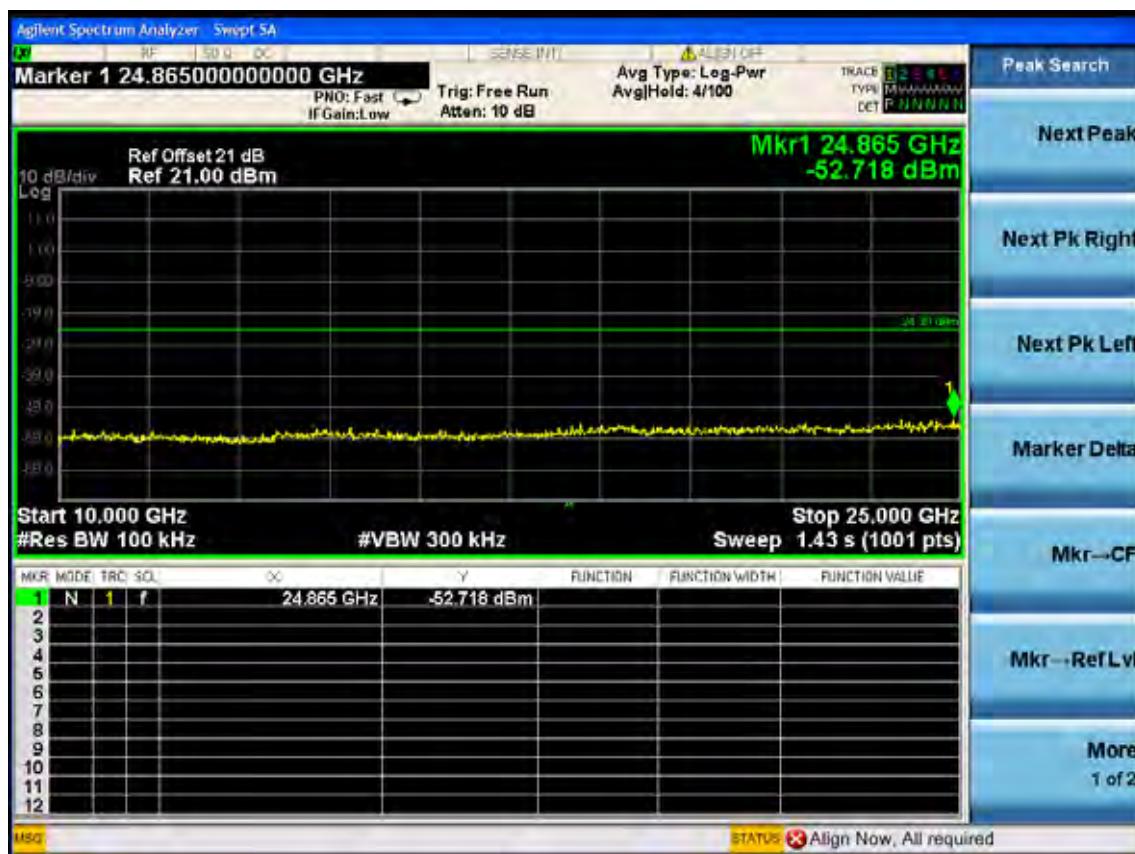
Test CH1: 2412MHz



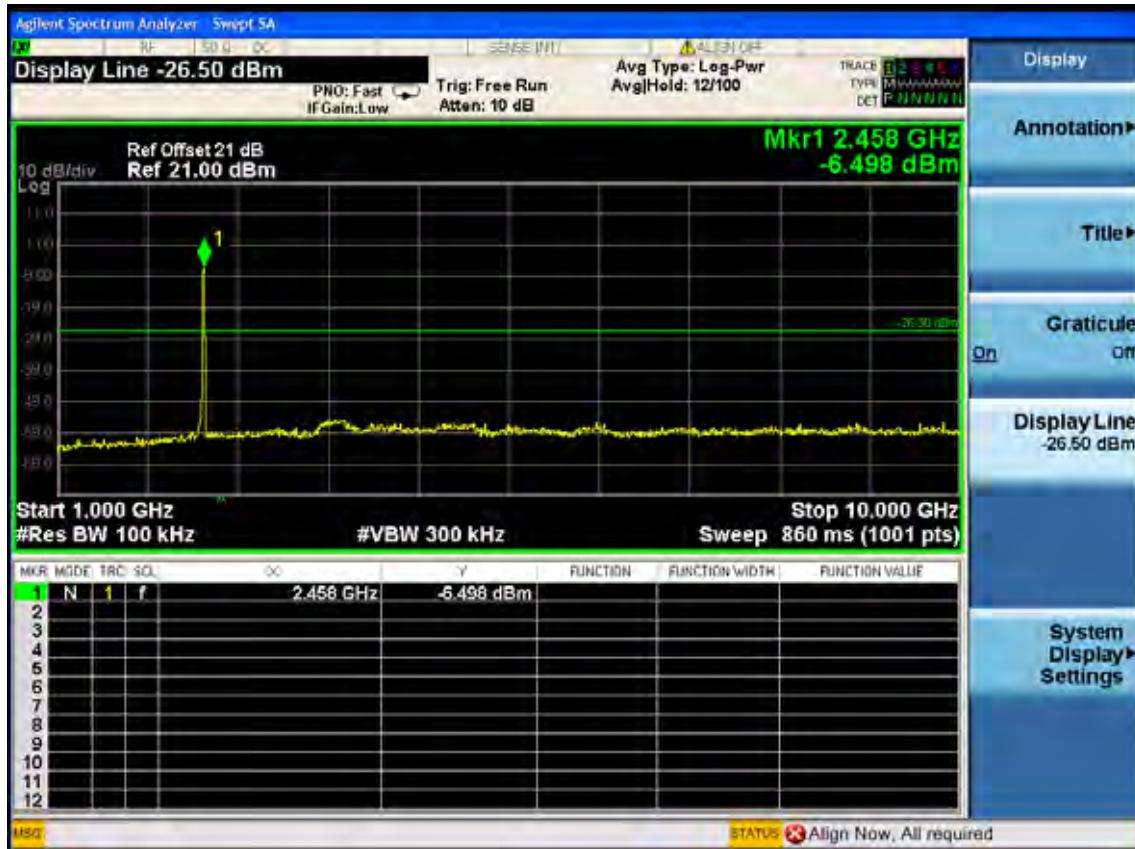


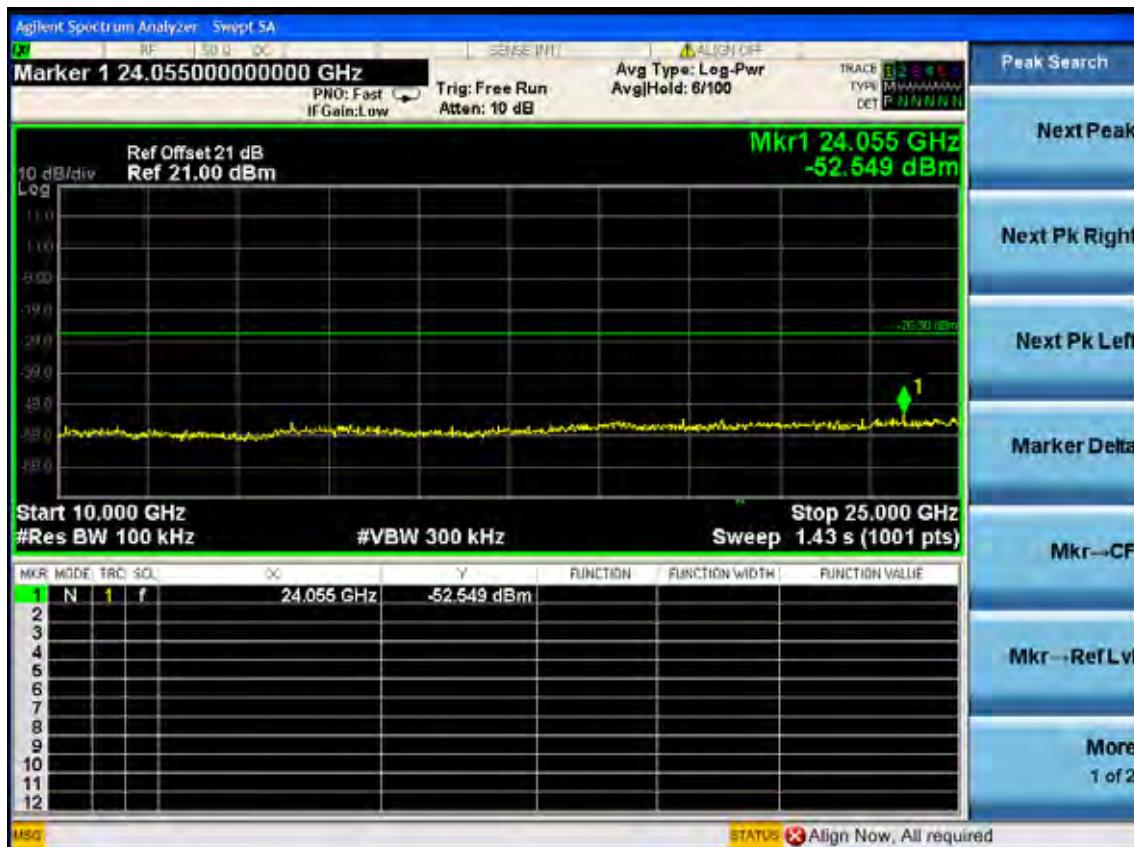
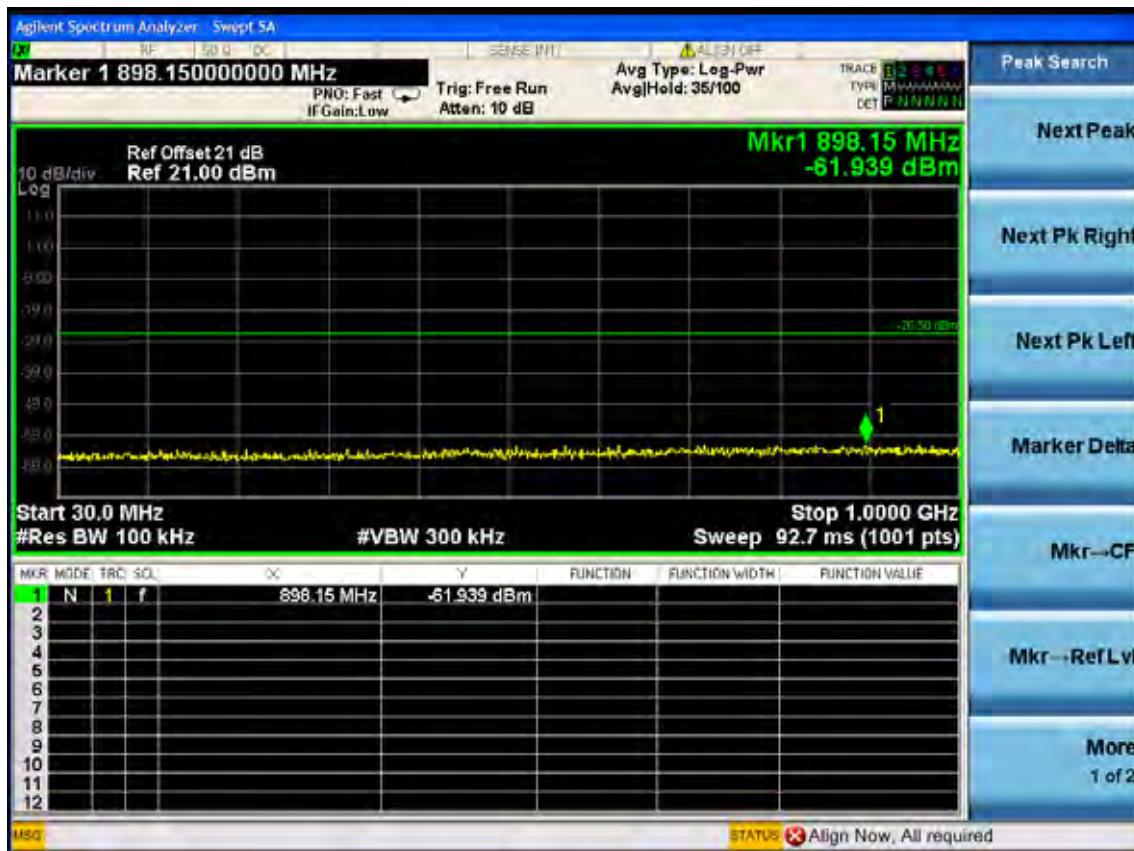
Test CH6: 2437MHz





Test CH11: 2462MHz

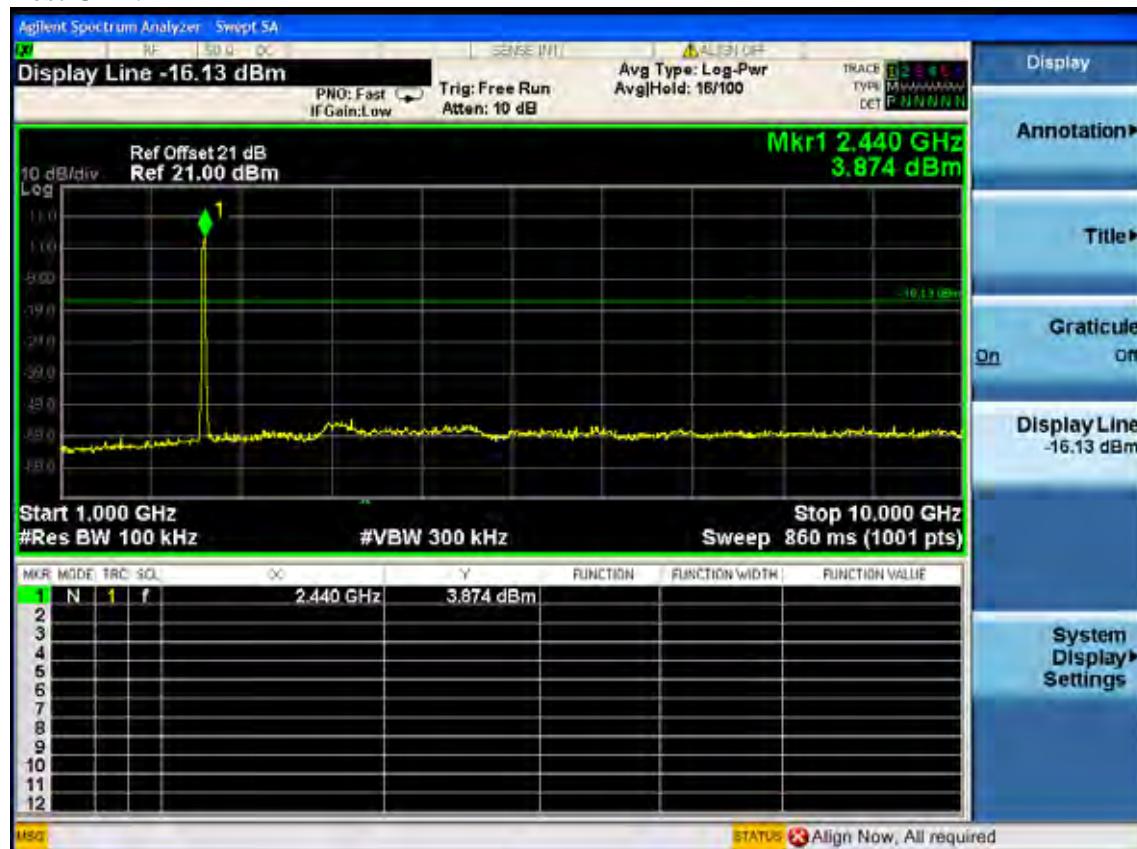


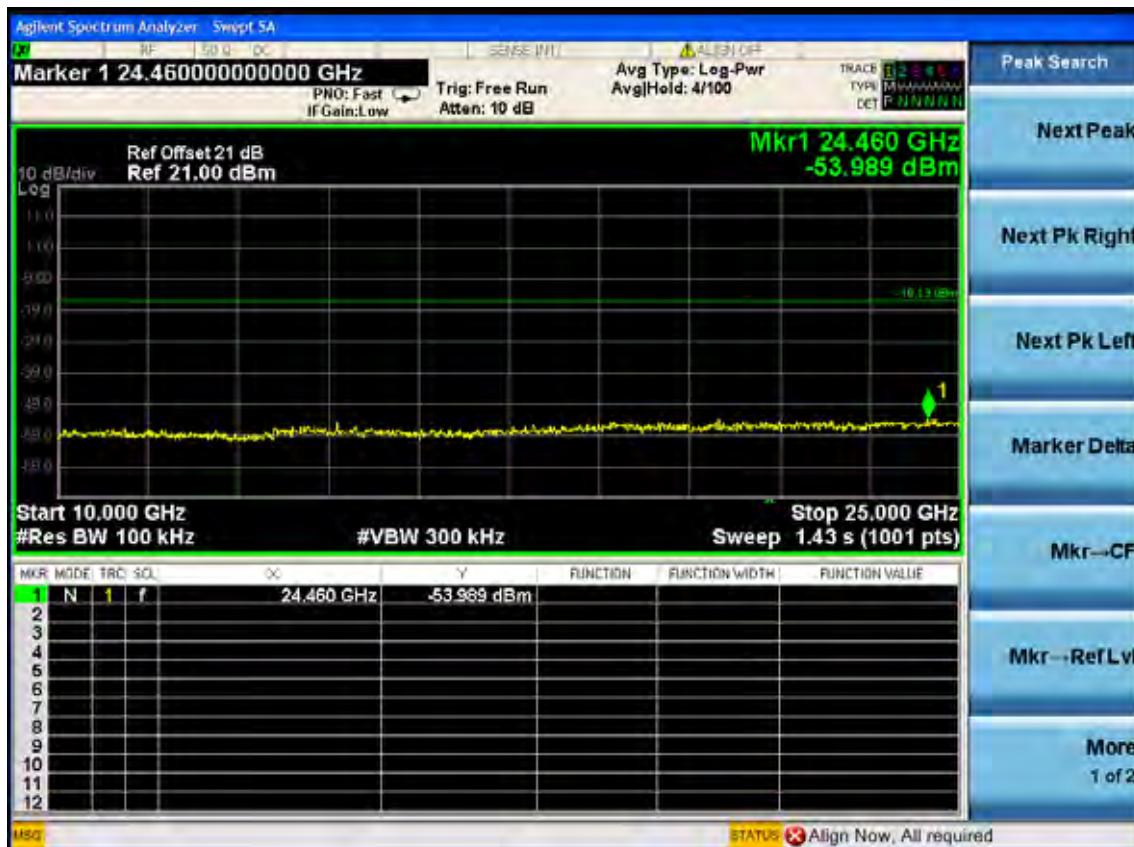
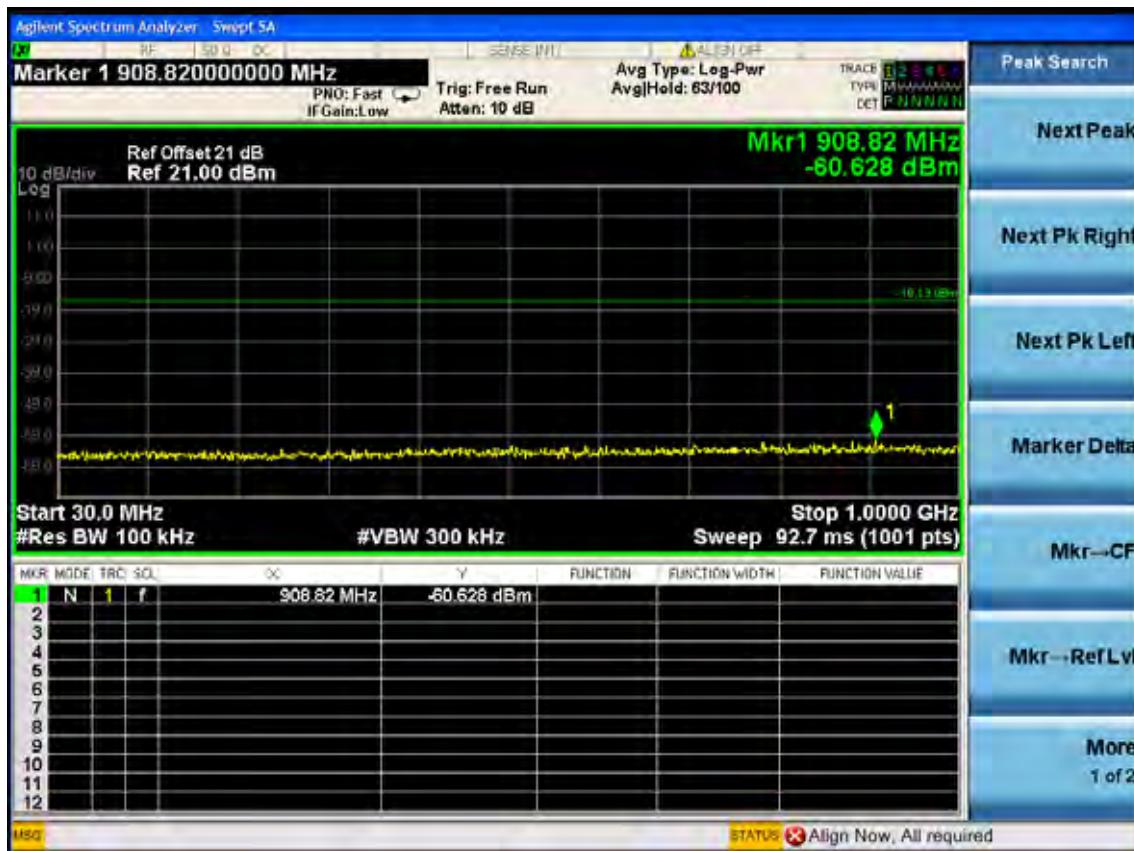




Test Mode: IEEE 802.11n HT40 TX

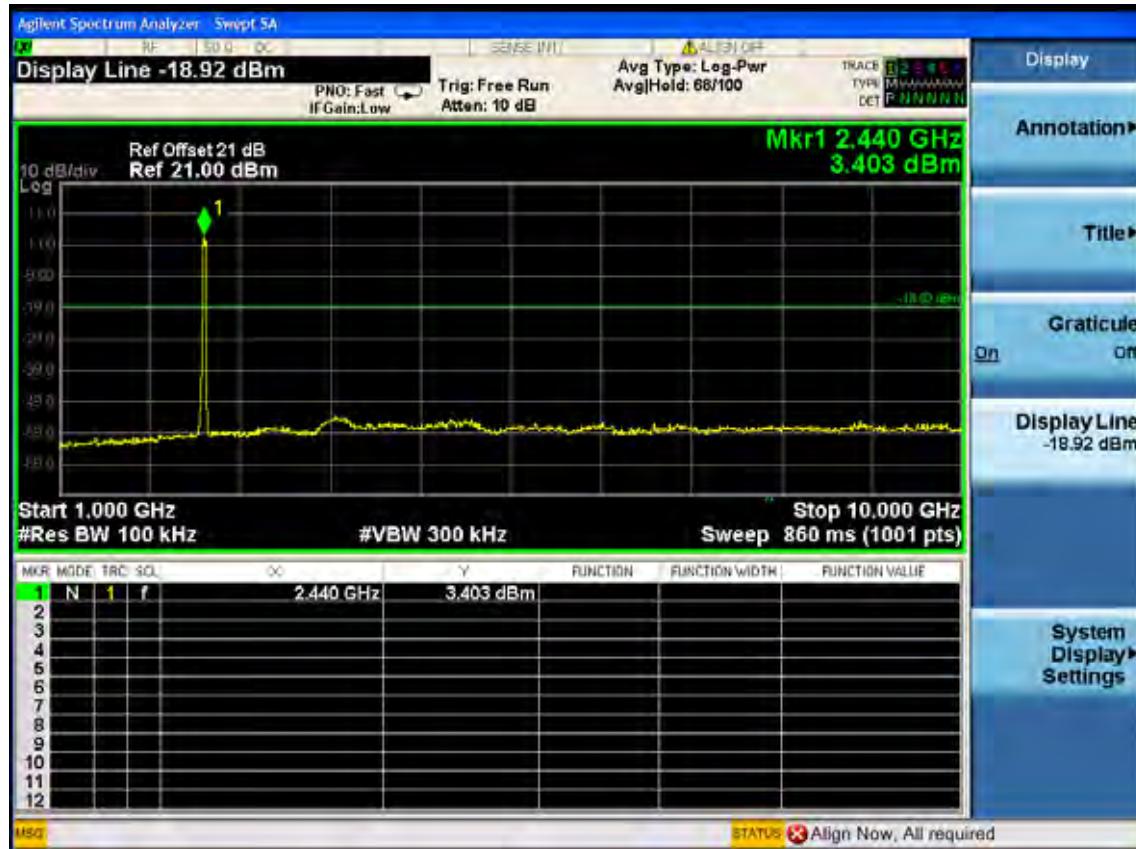
Test CH1: 2422MHz

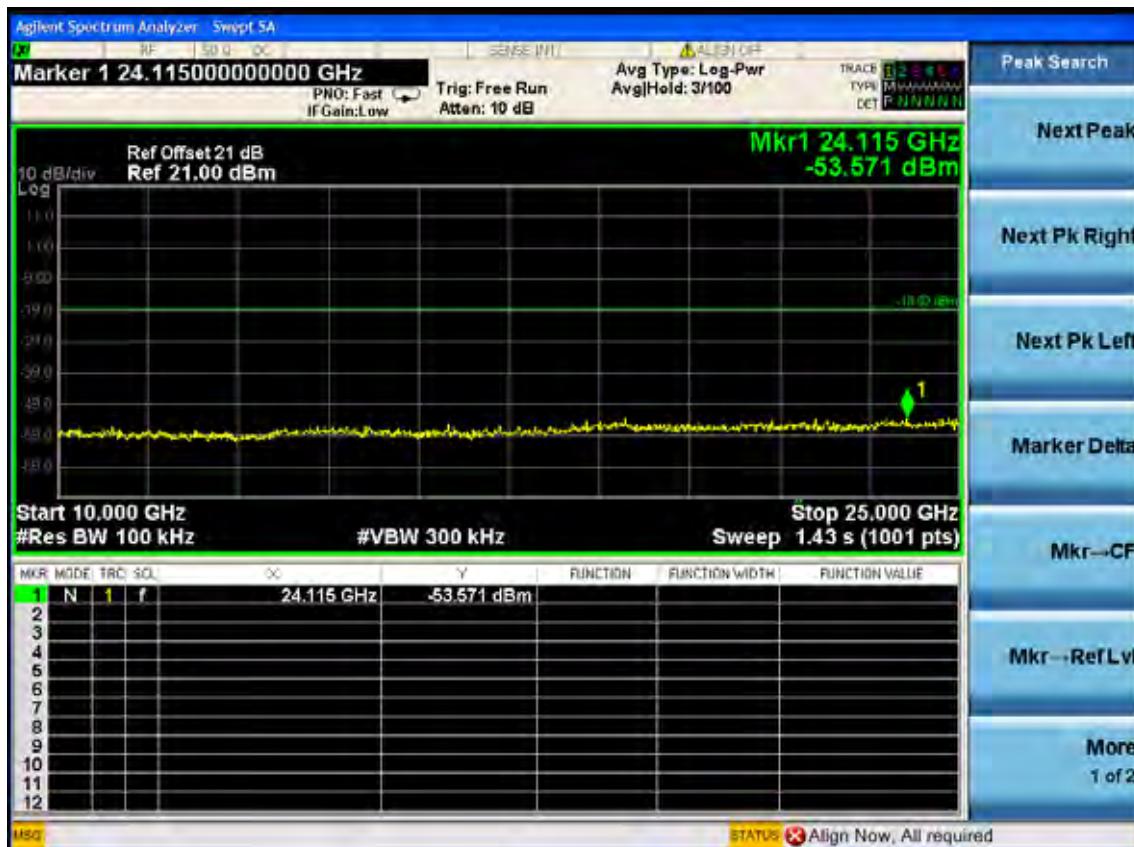
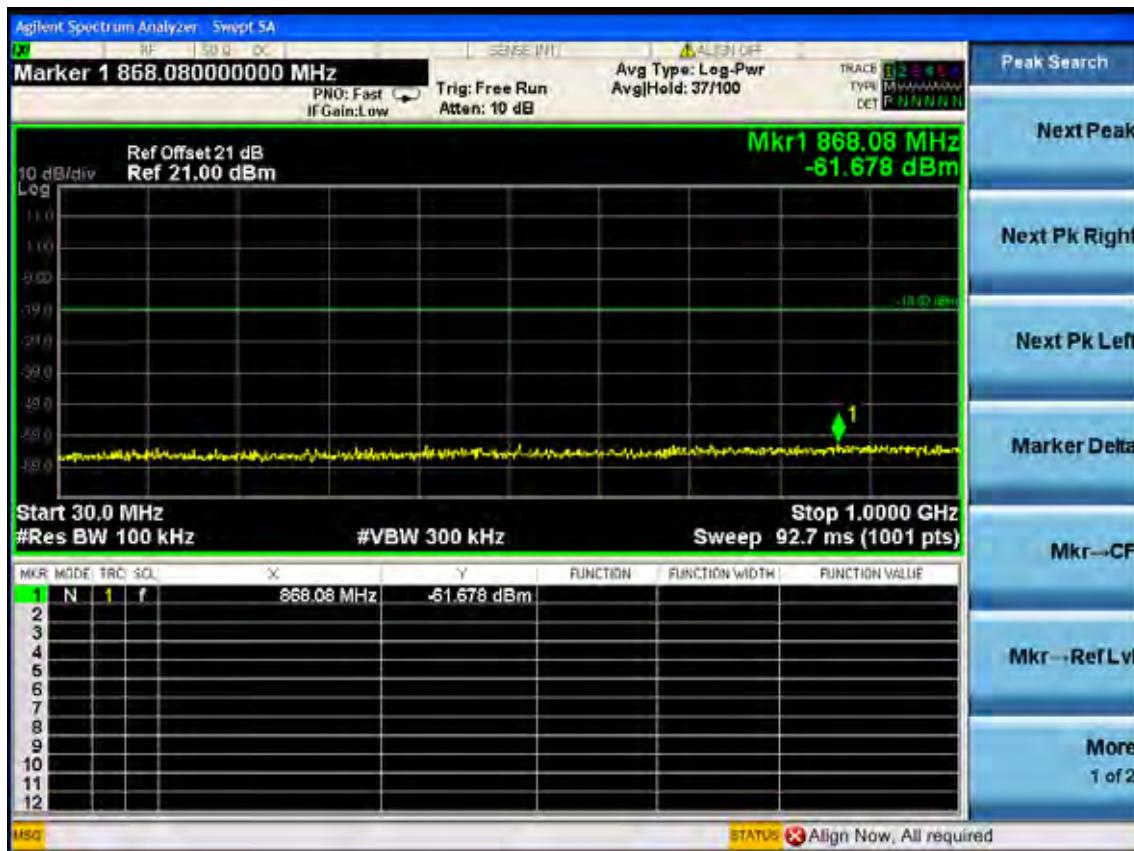




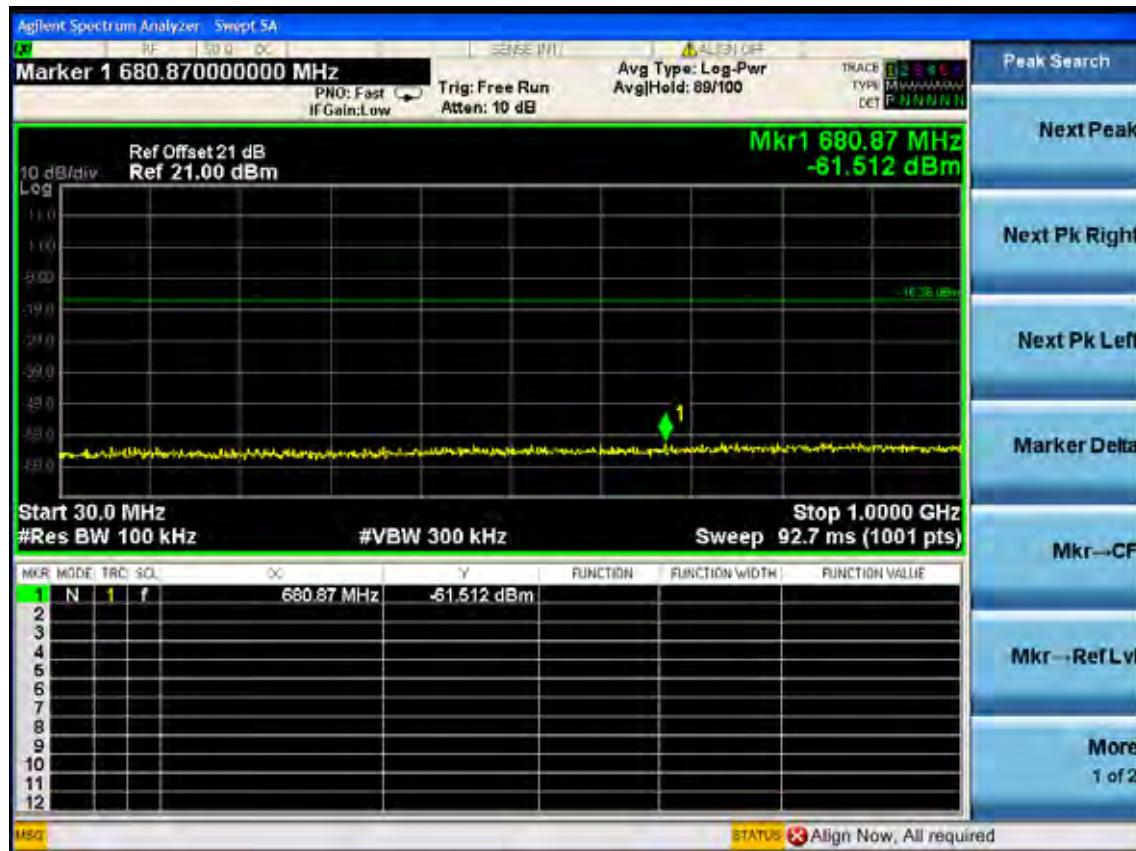
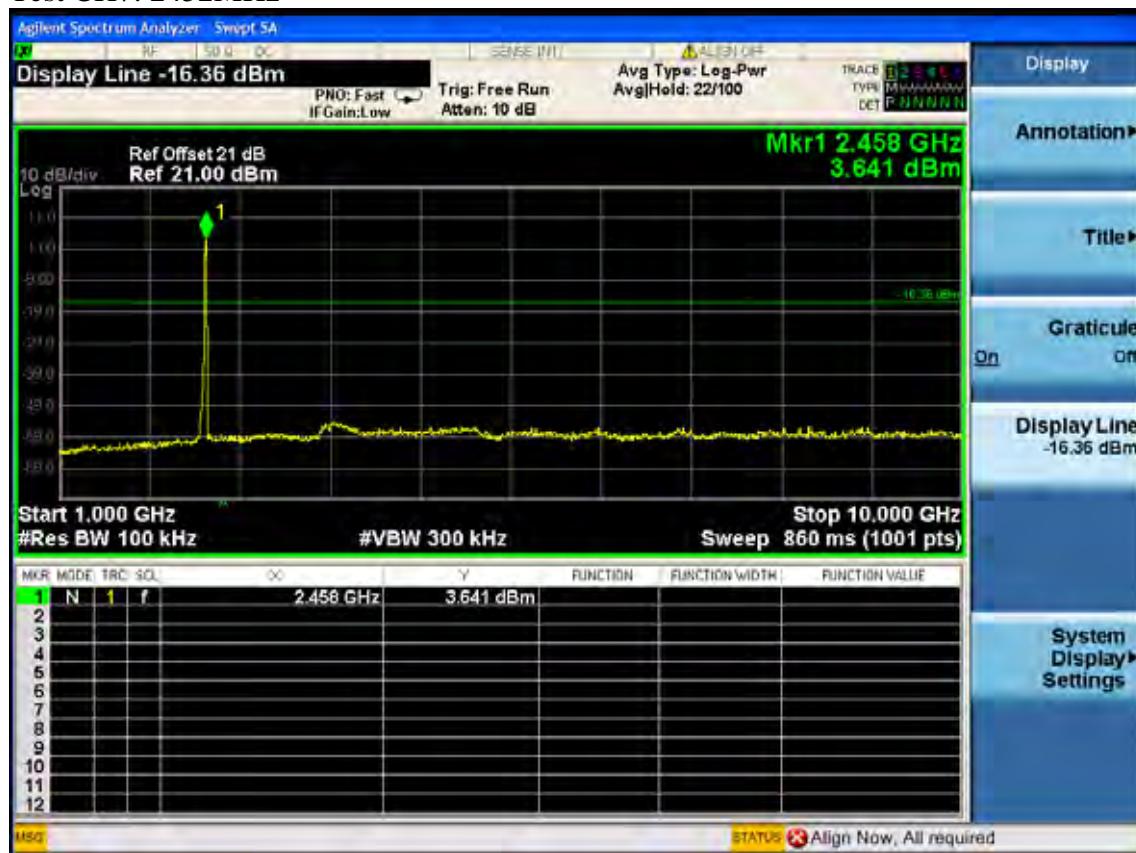


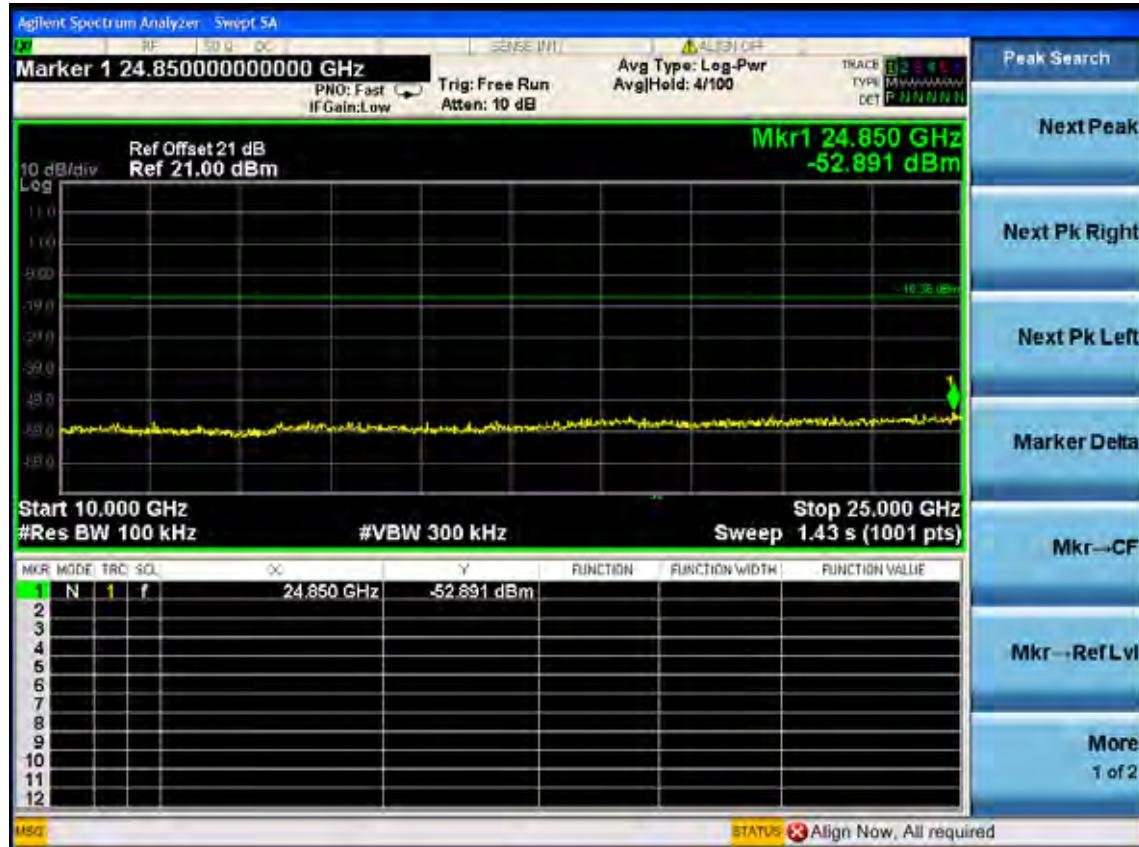
Test CH4: 2437MHz





Test CH7: 2452MHz

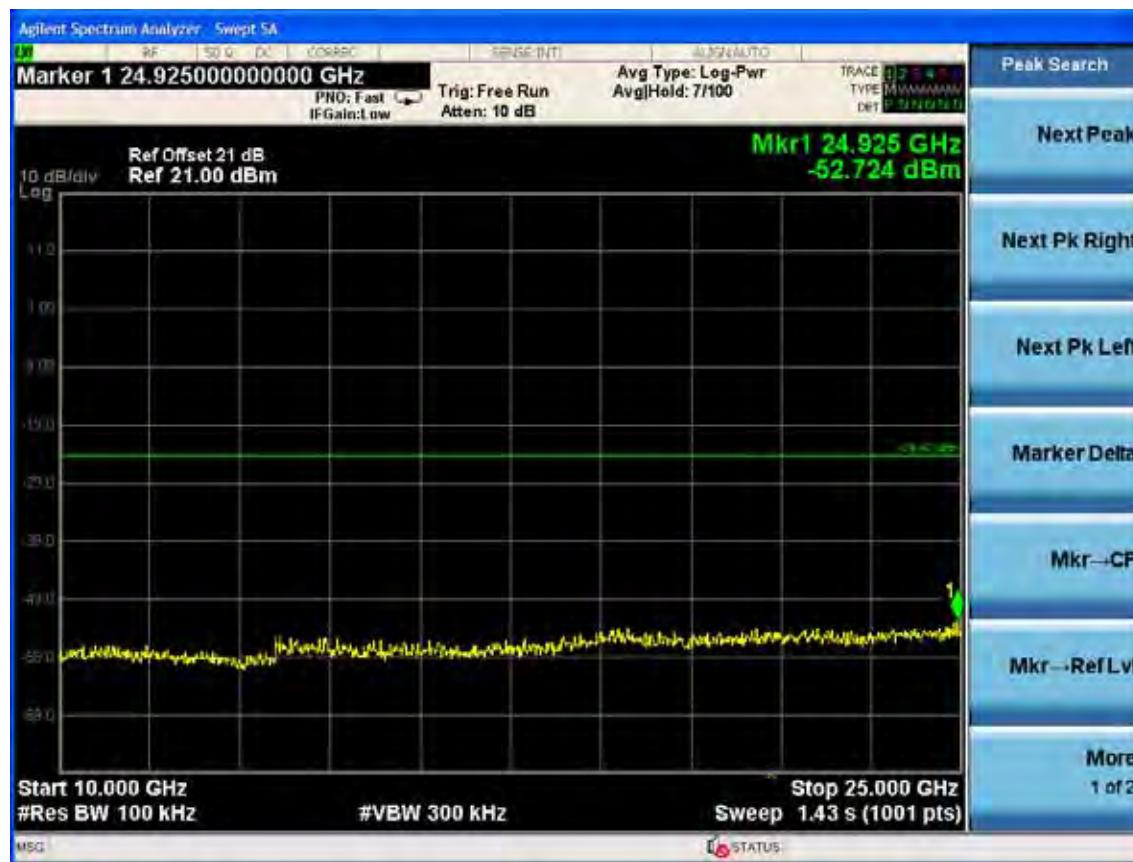


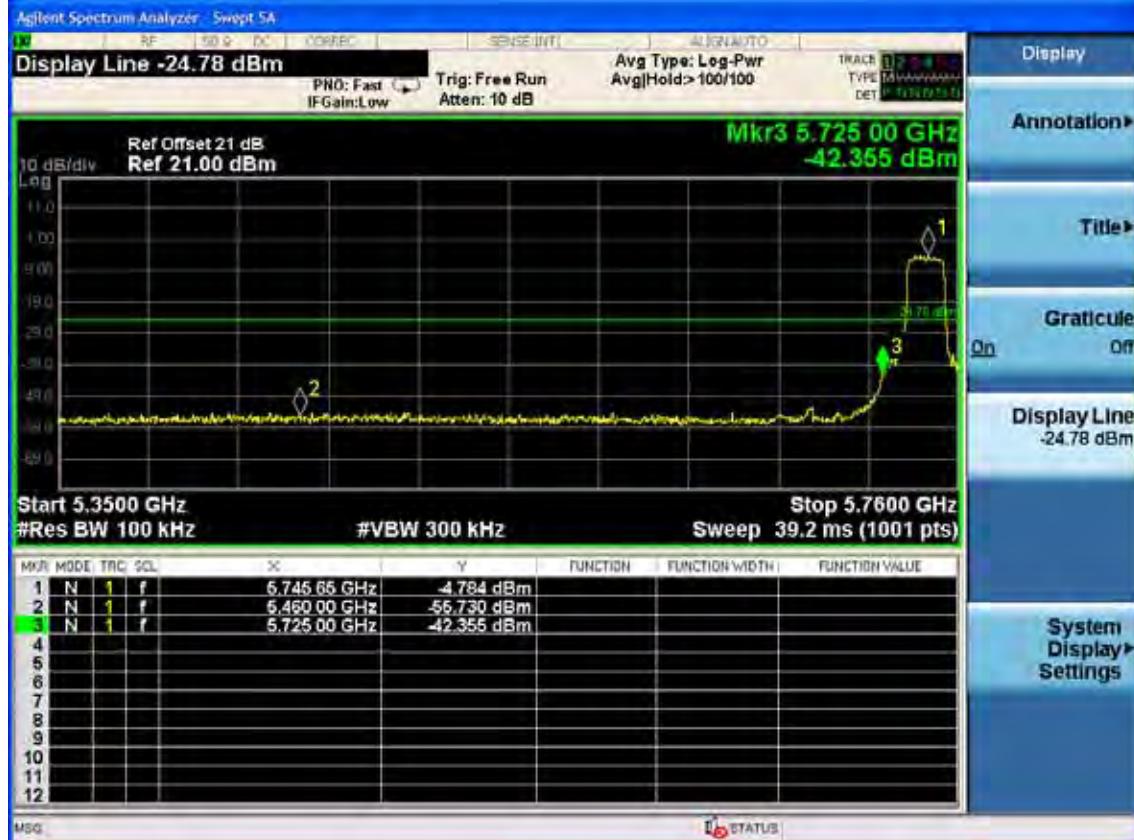
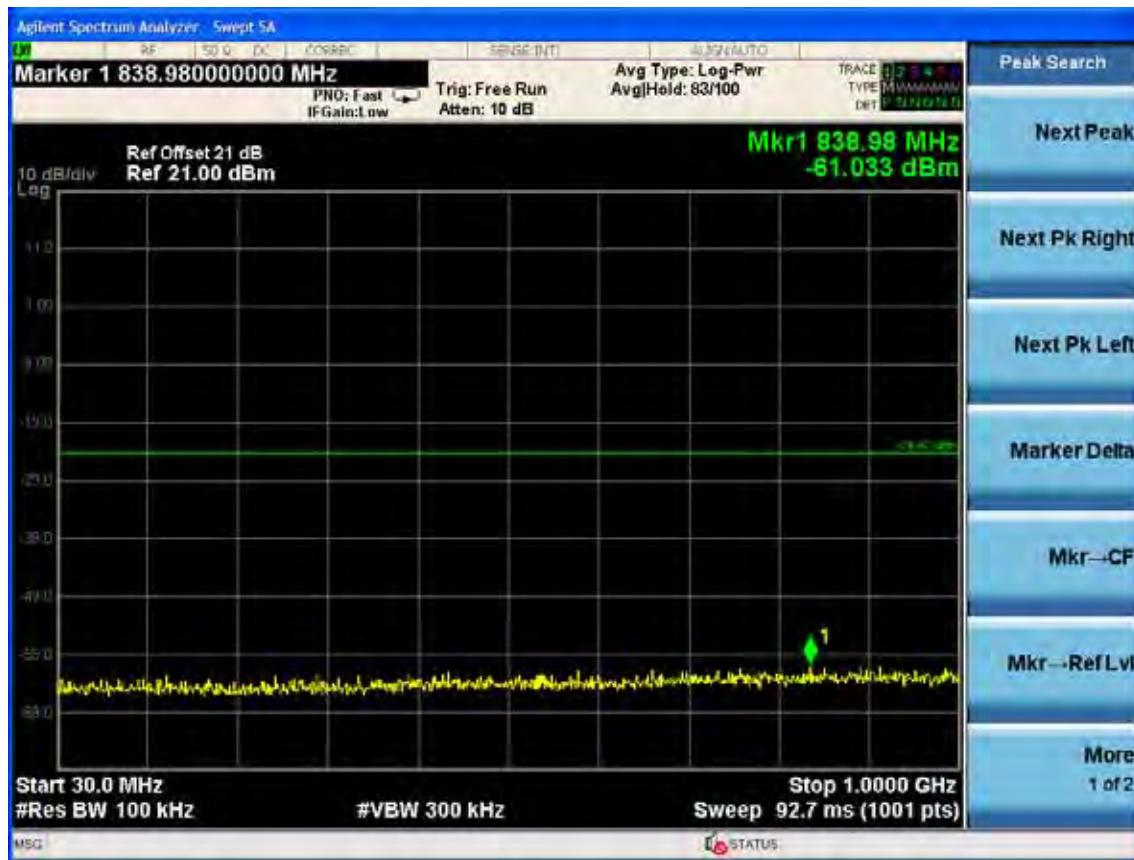


5.8G:
Chain 1:

Test Mode: IEEE 802.11a TX

Test CH149: 5745MHz



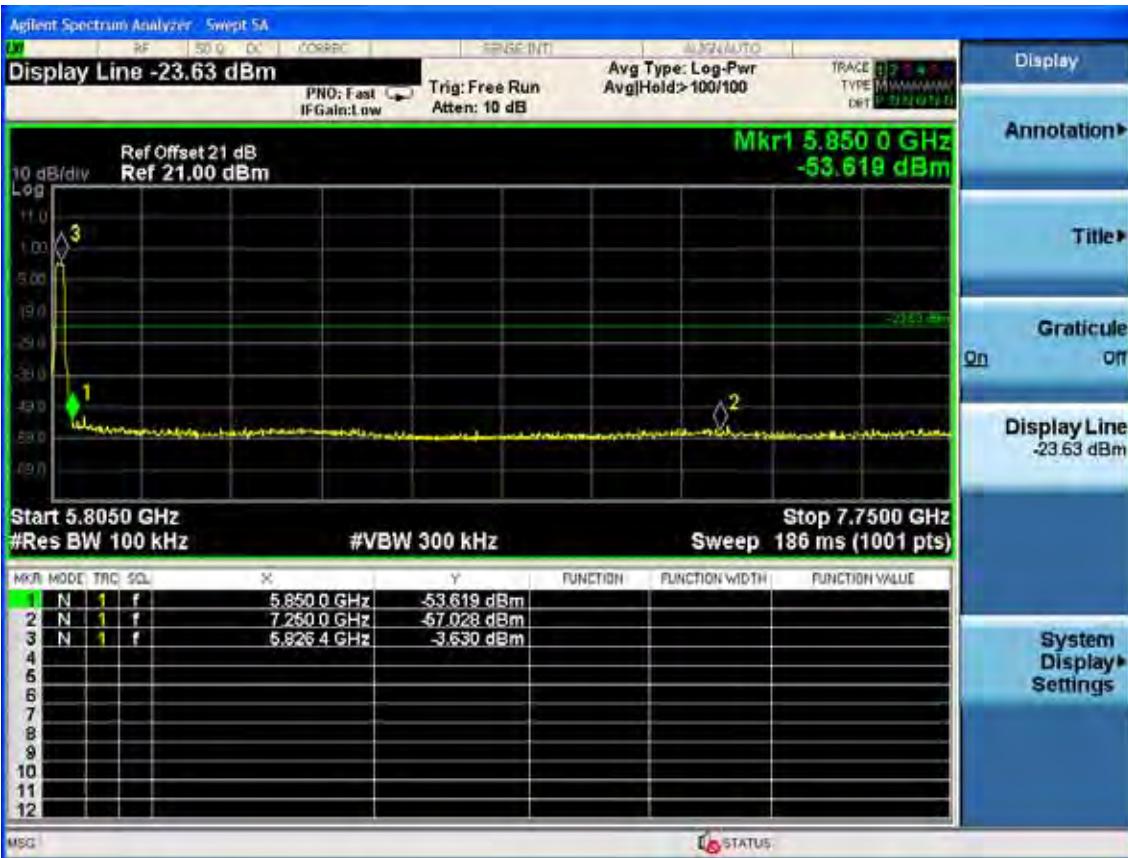


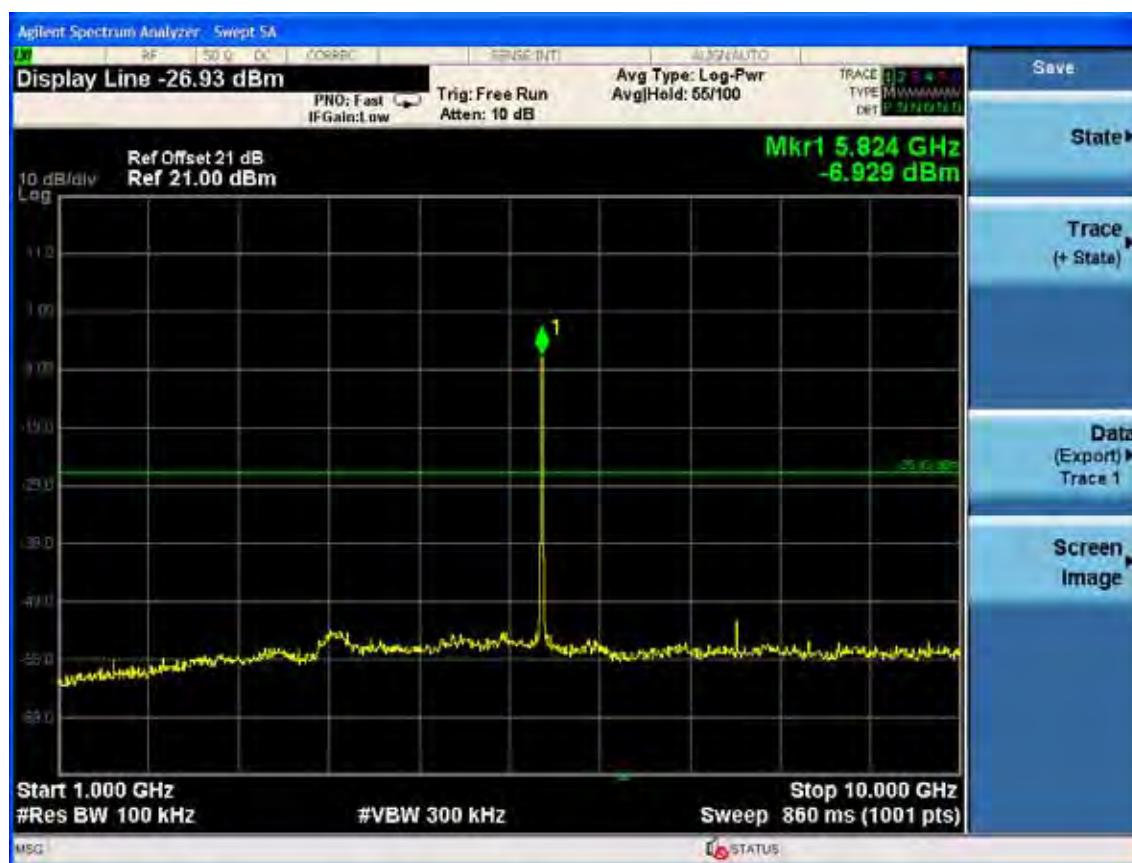
Test CH157: 5785MHz





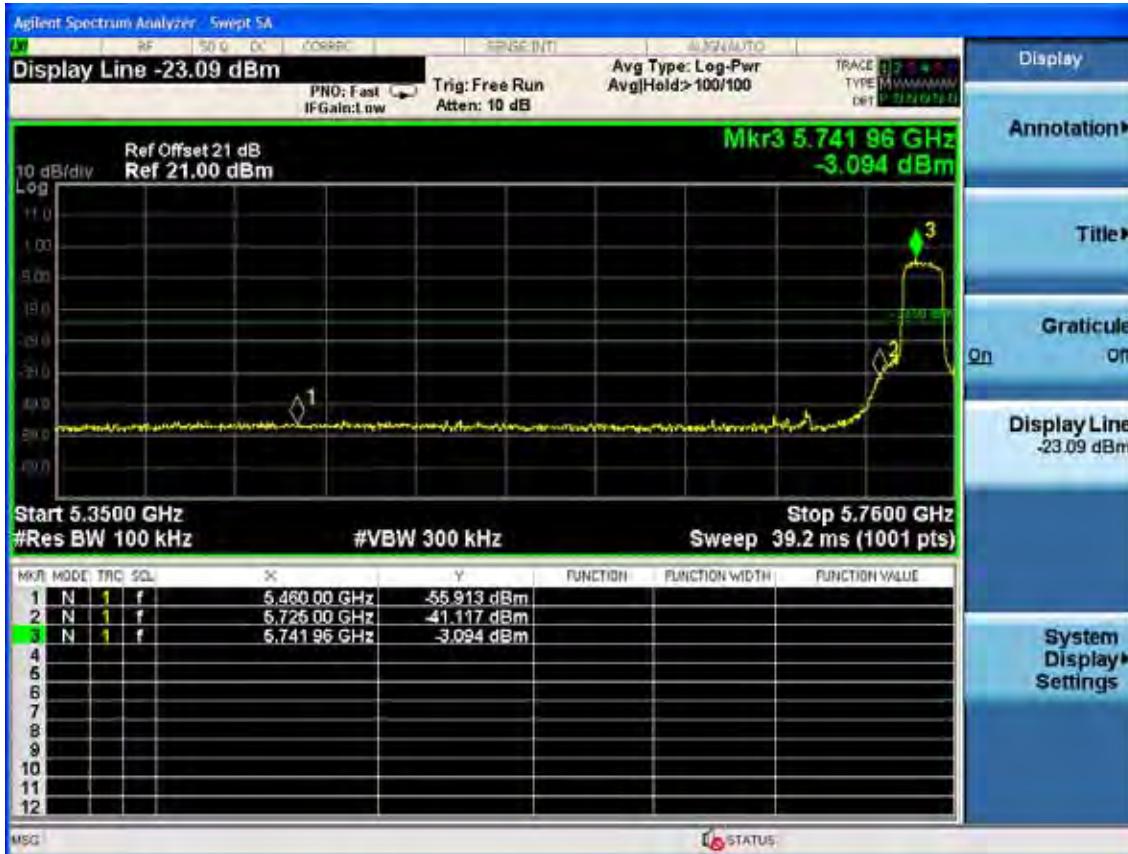
Test CH165: 5825MHz



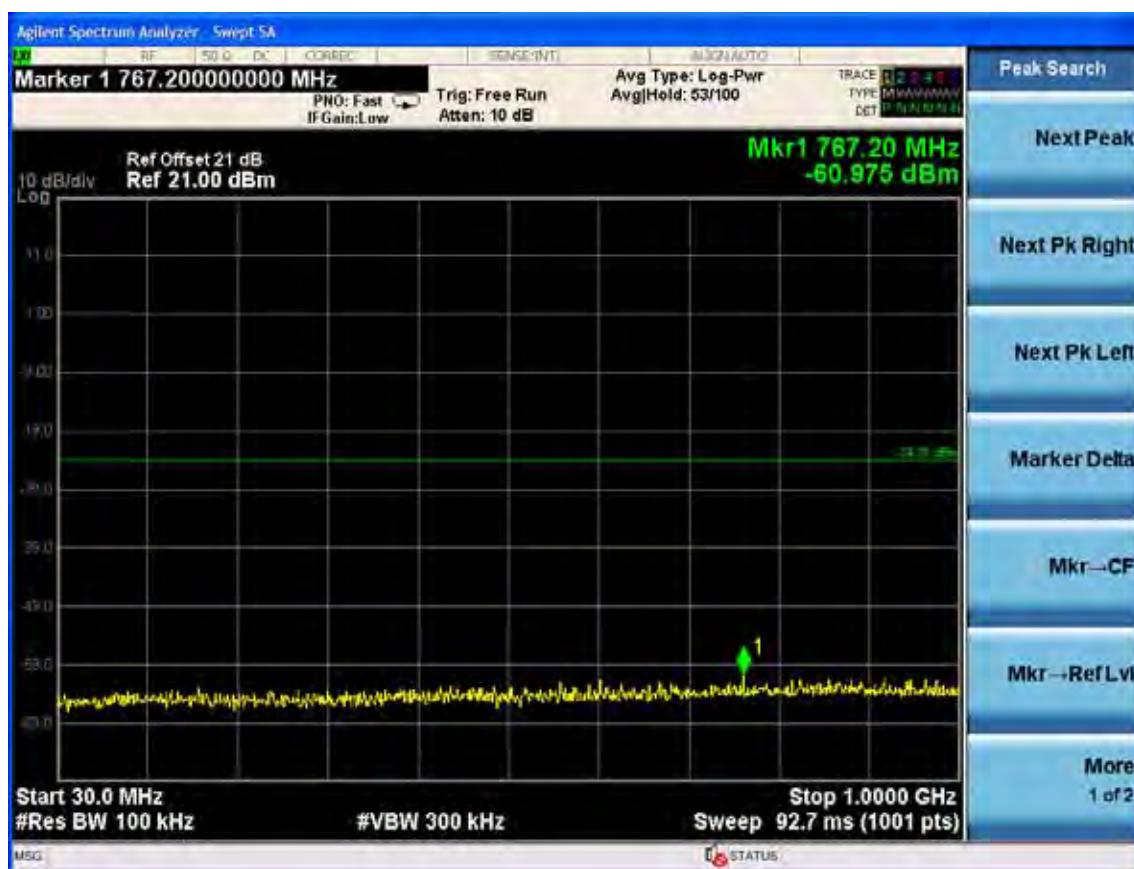




Test Mode: IEEE 802.11n HT20 TX
Test CH149: 5745MHz

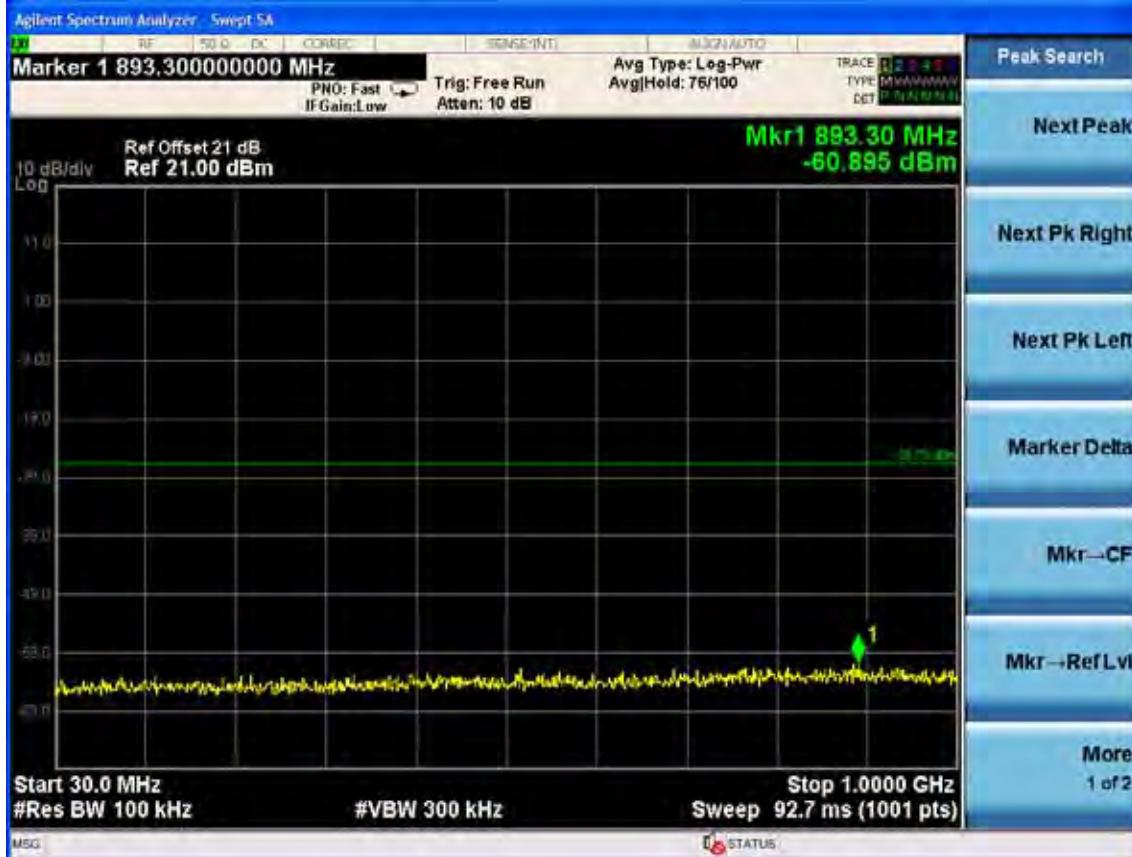






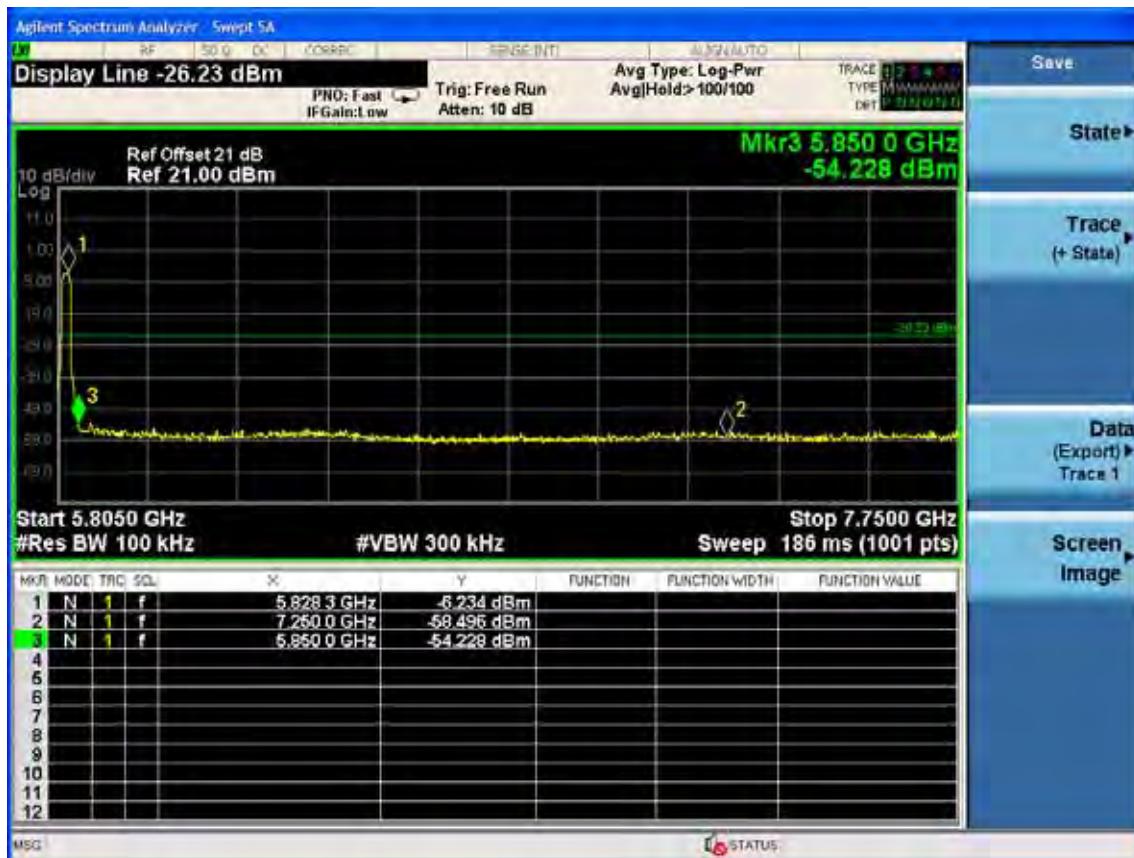
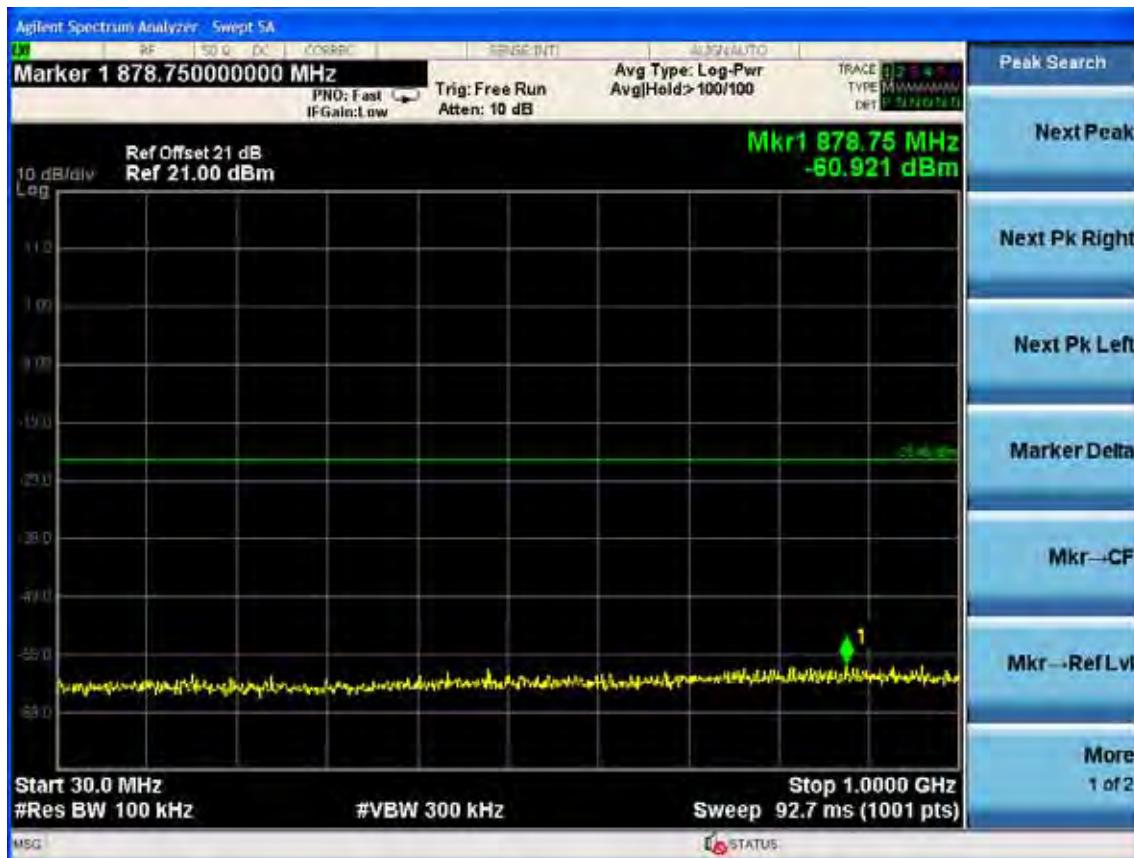
Test CH157: 5785MHz





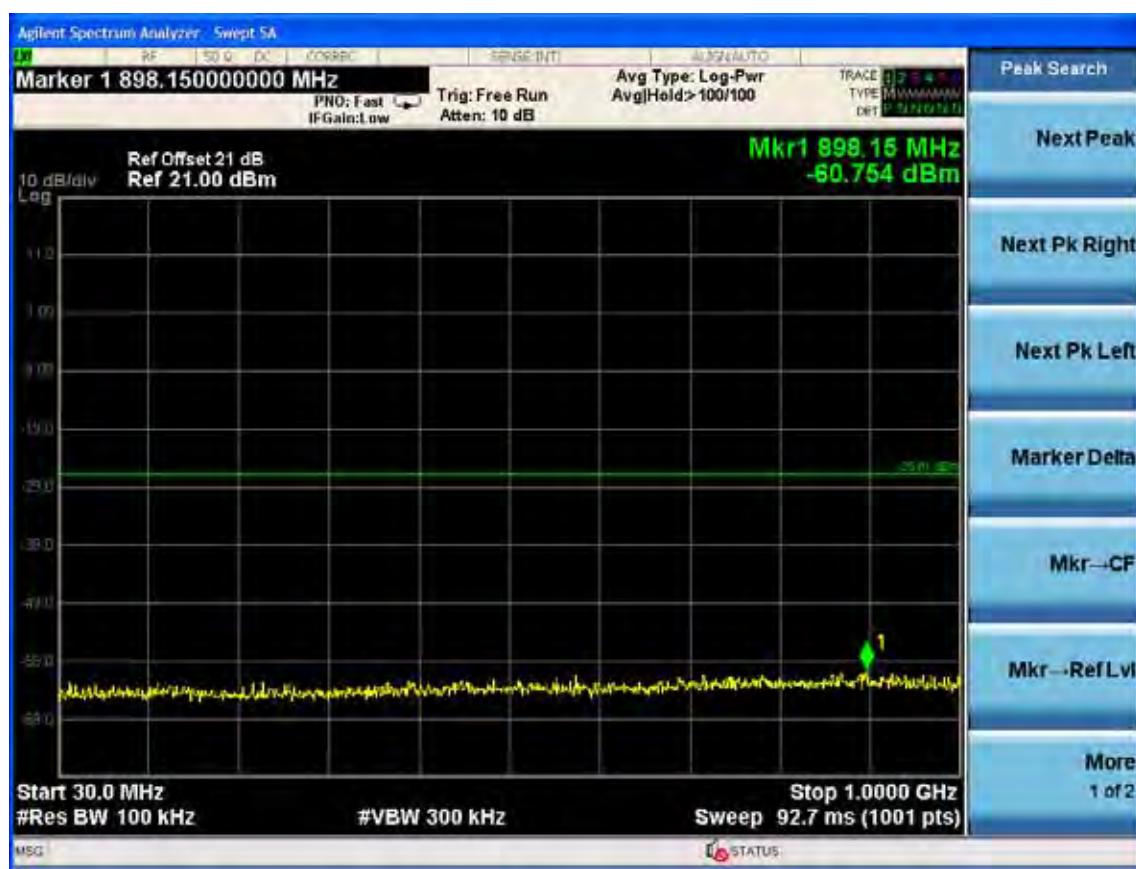
Test CH165: 5825MHz



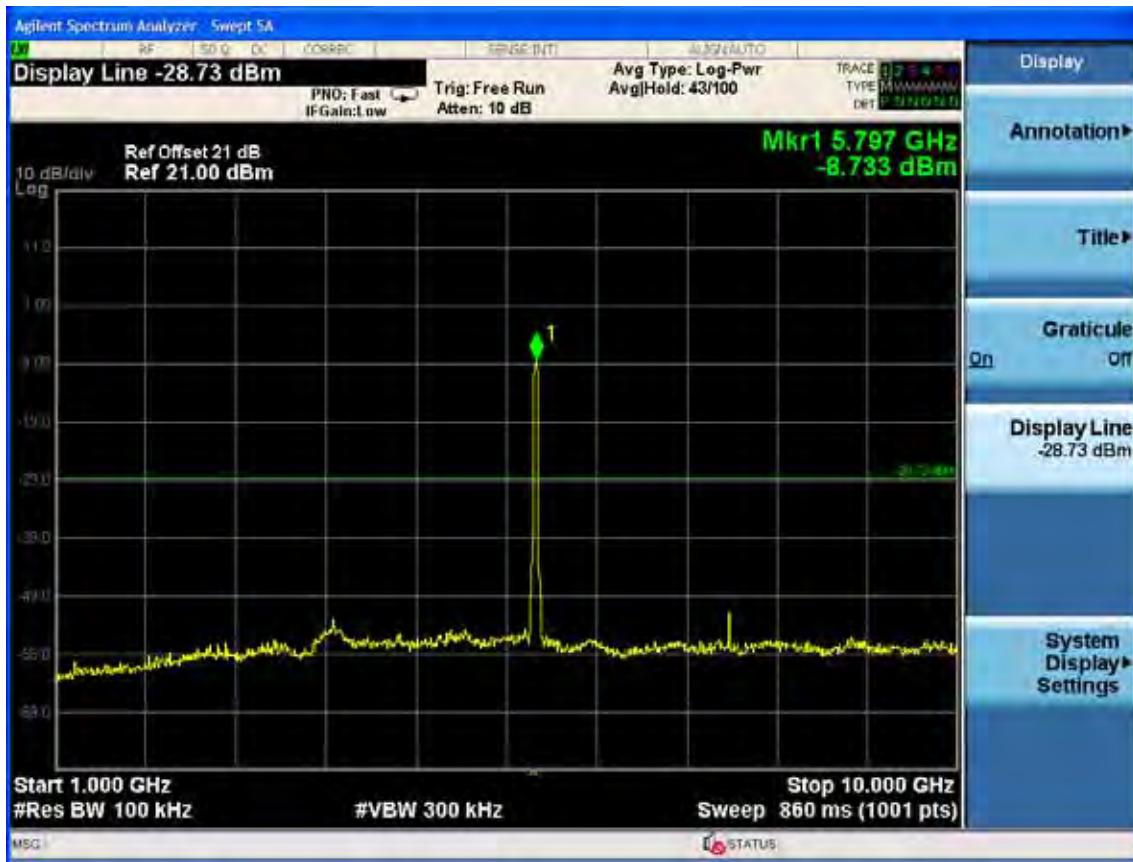


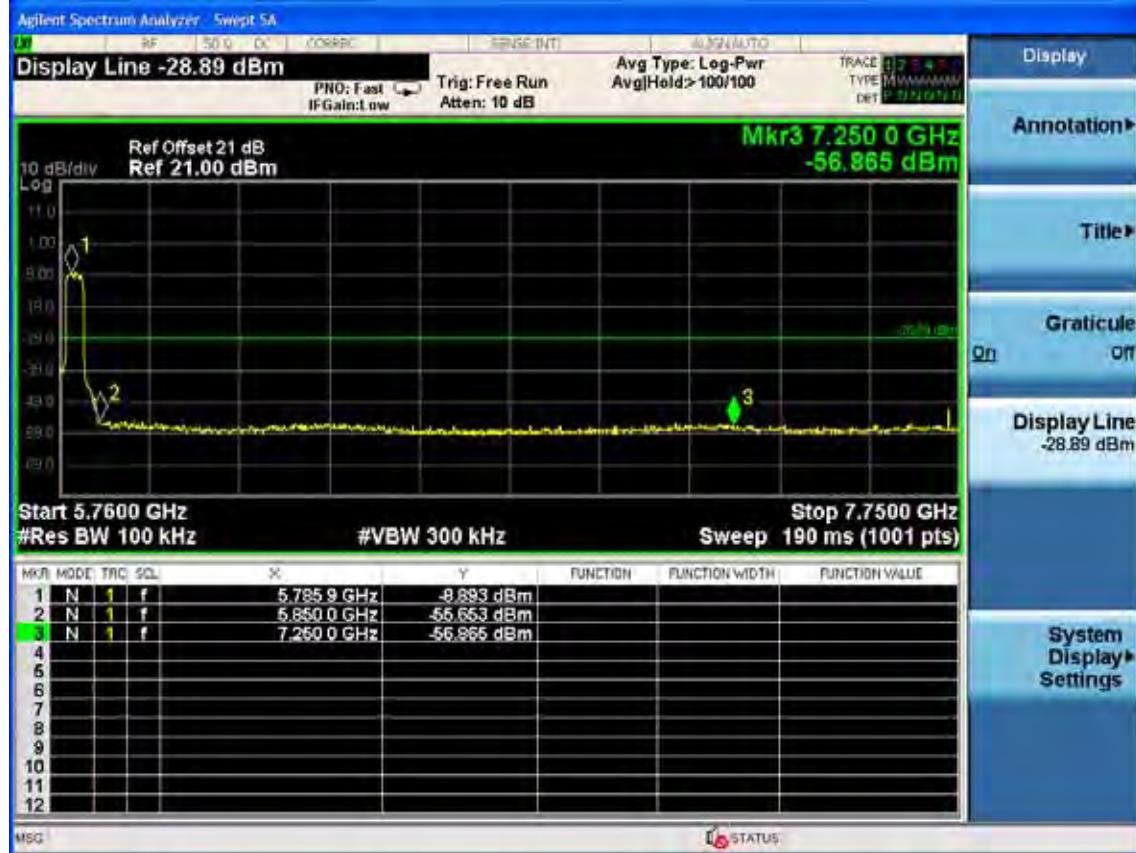
Test Mode: IEEE 802.11n HT40 TX
Test CH151: 5755MHz





Test CH159: 5795MHz

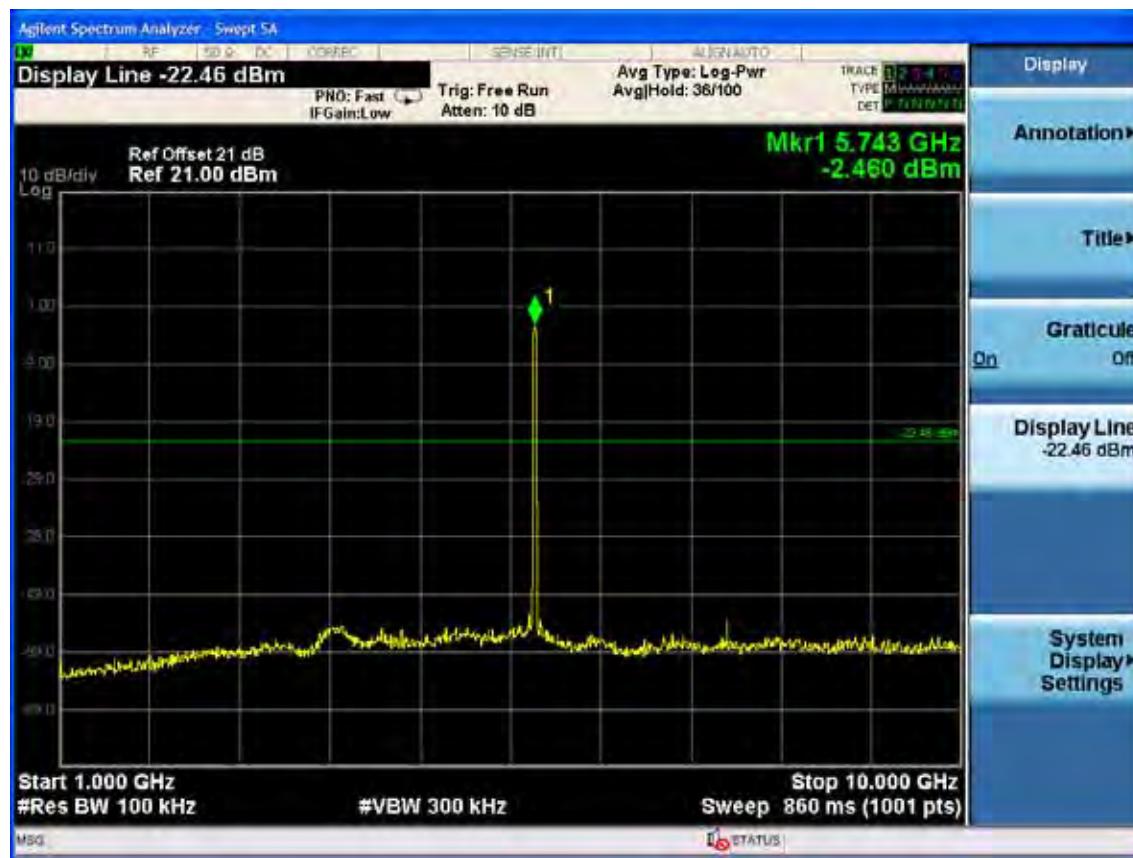
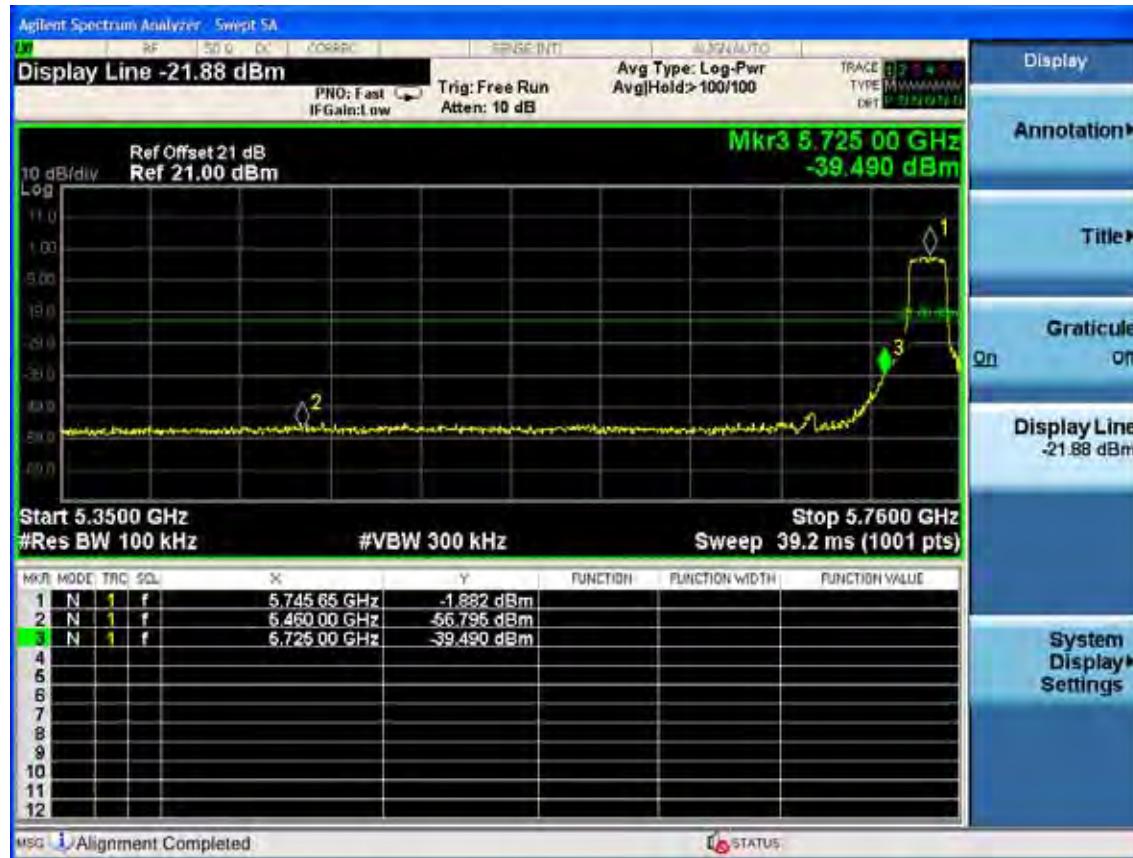


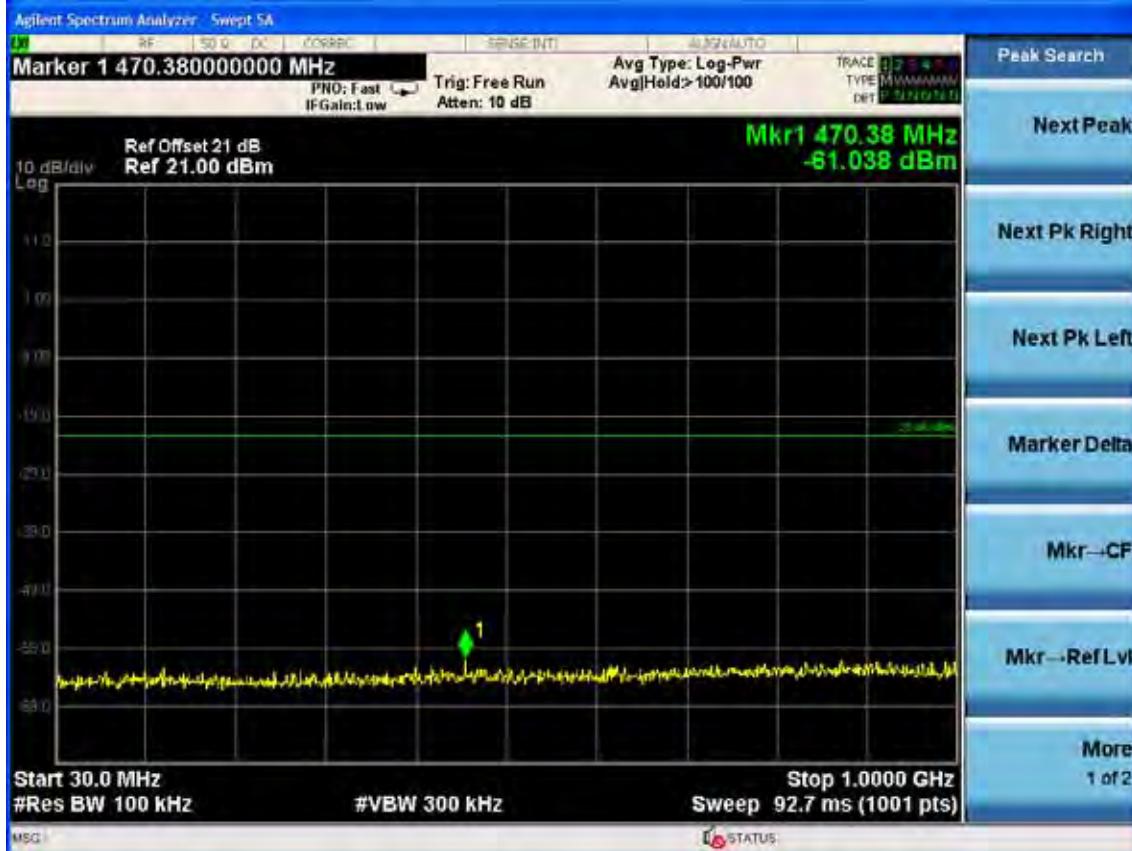


Chain 2:

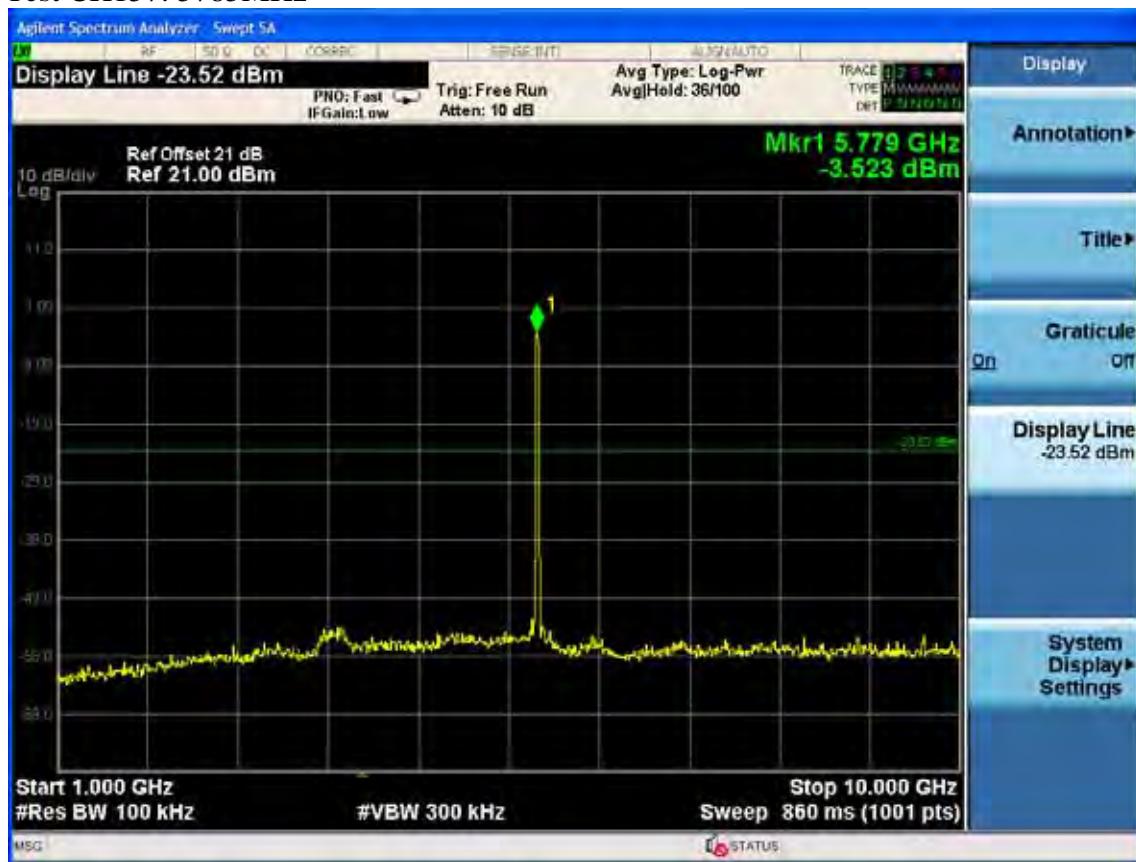
Test Mode: IEEE 802.11a TX

Test CH149: 5745MHz



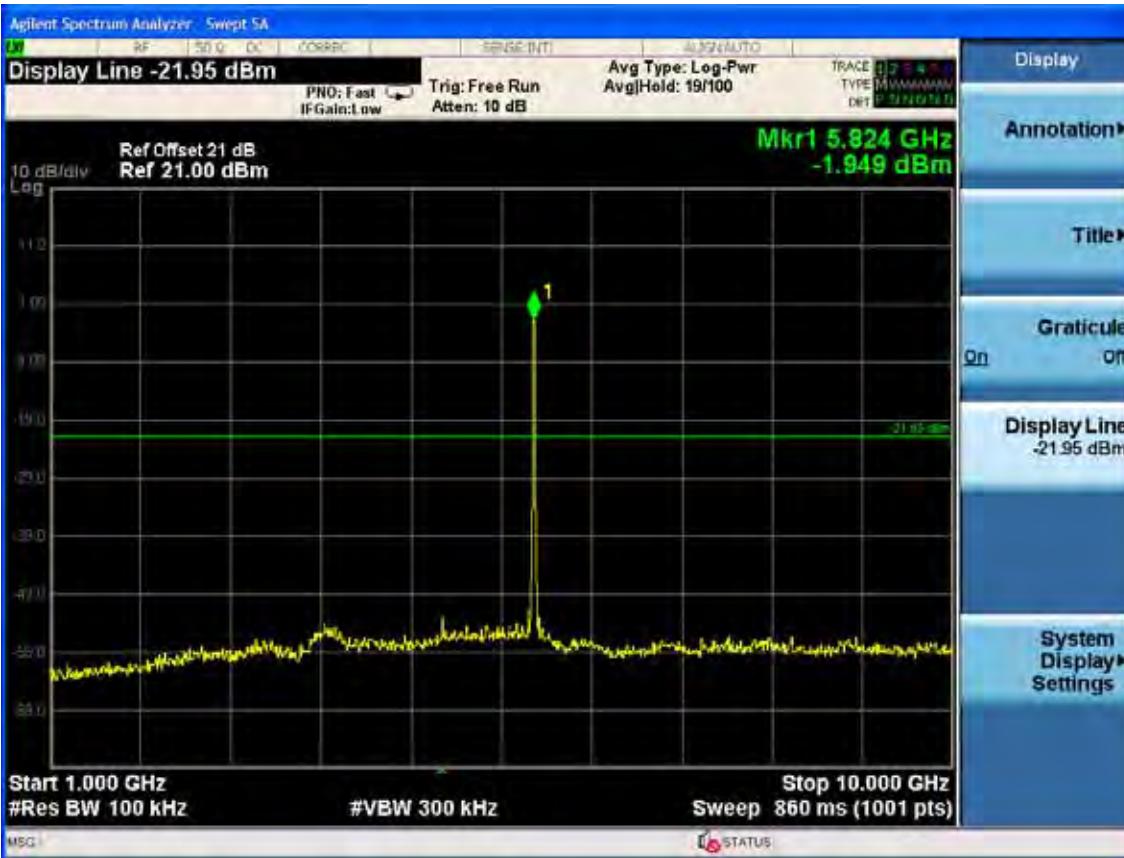


Test CH157: 5785MHz

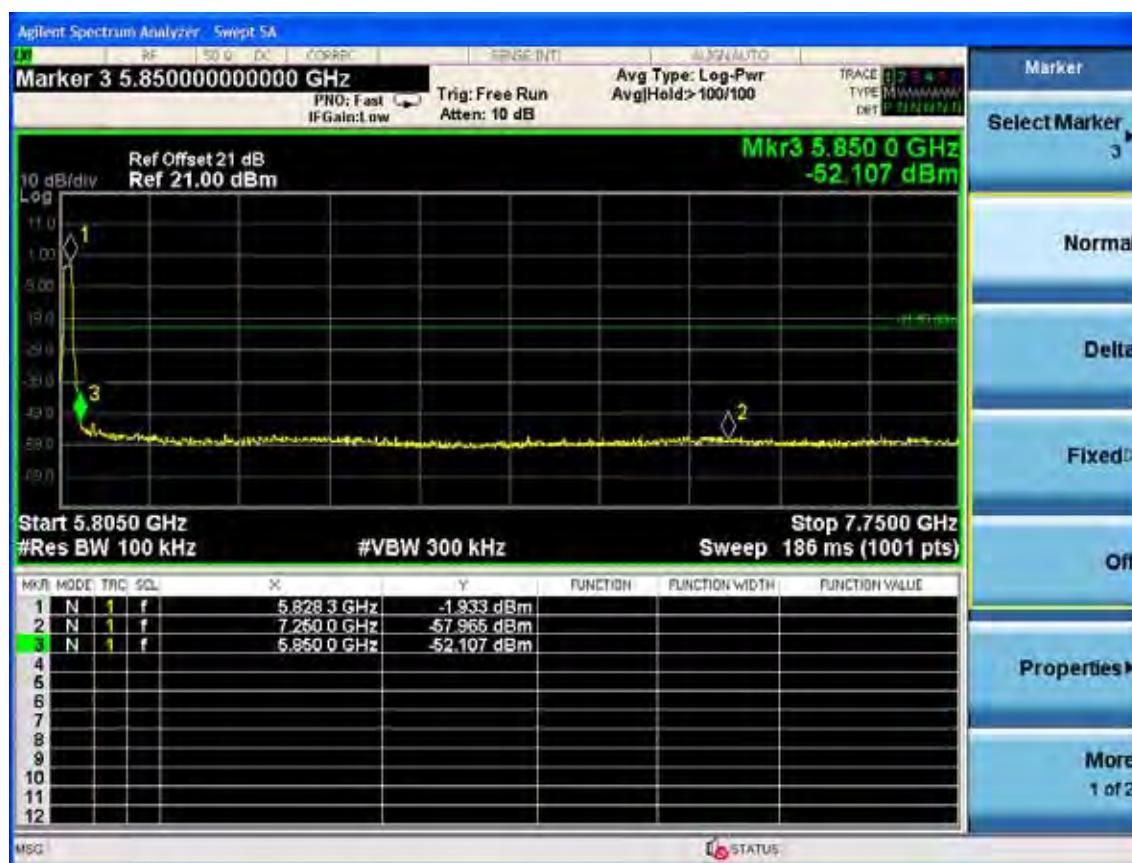




Test CH165: 5825MHz







Test Mode: IEEE 802.11n HT20 TX

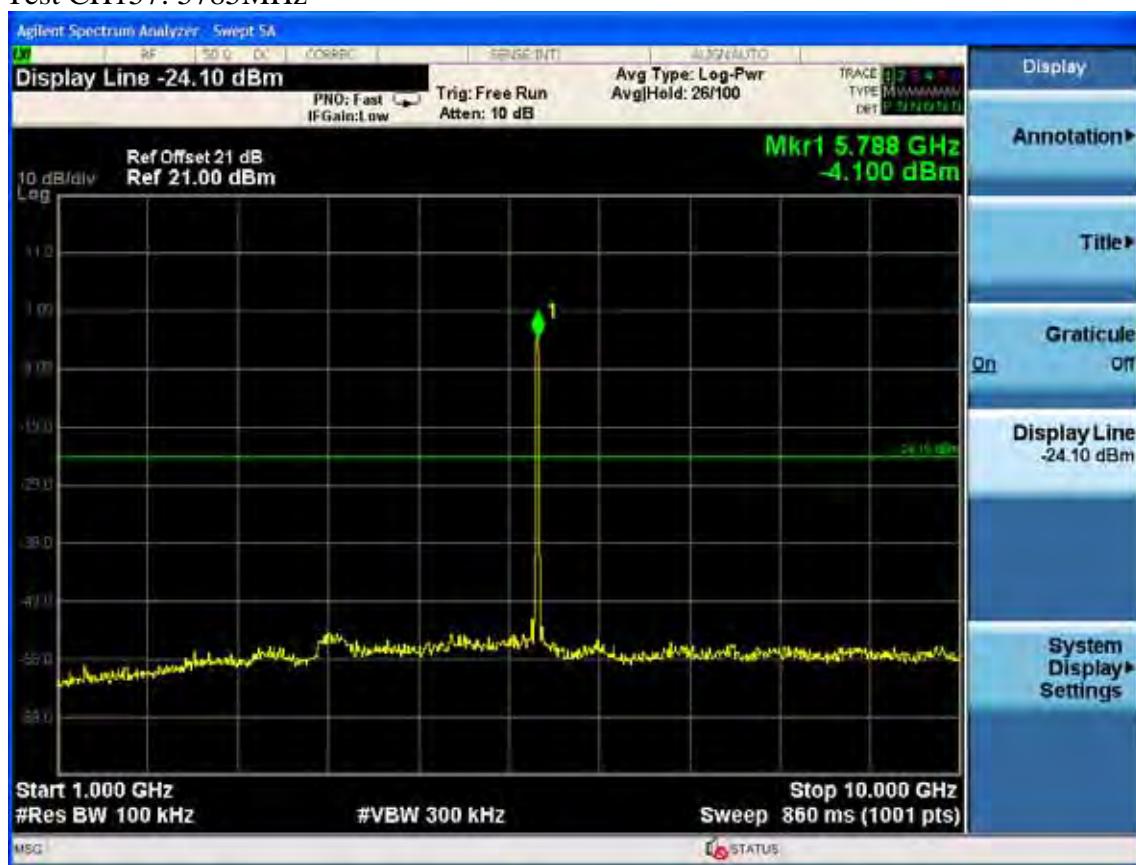
Test CH149: 5745MHz

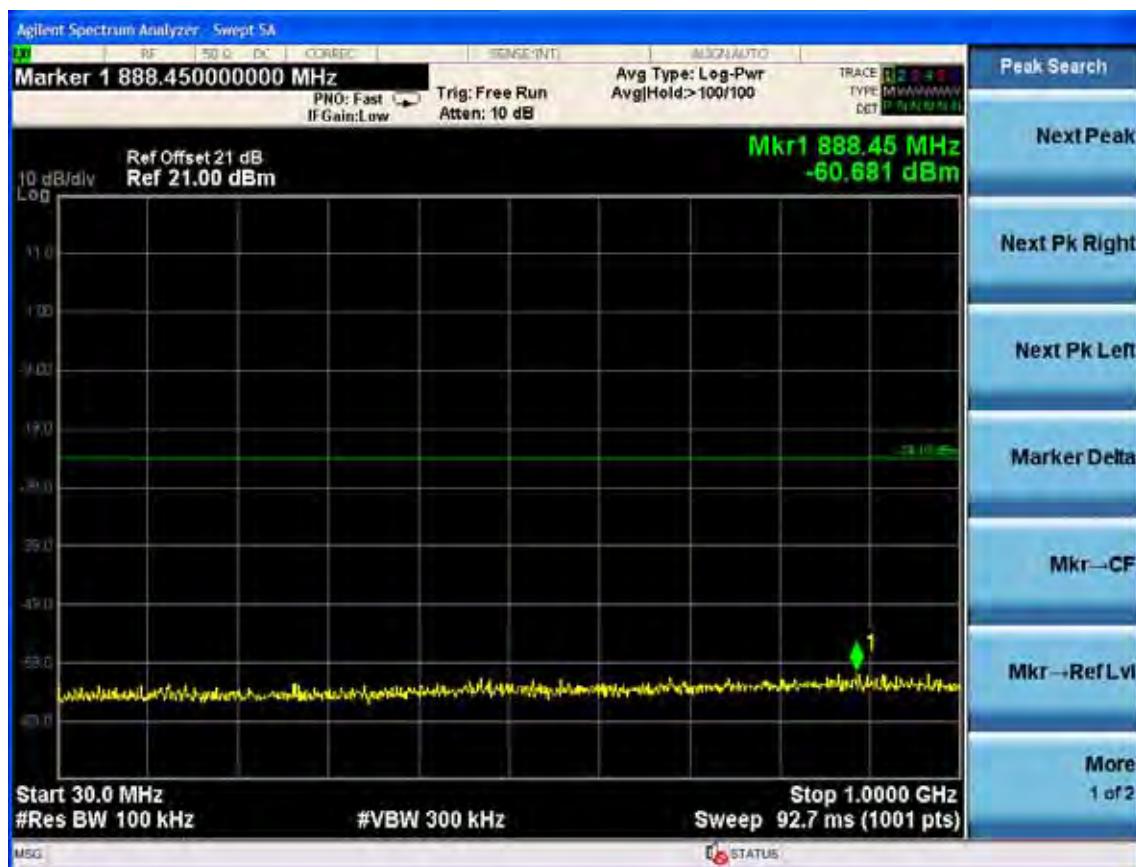




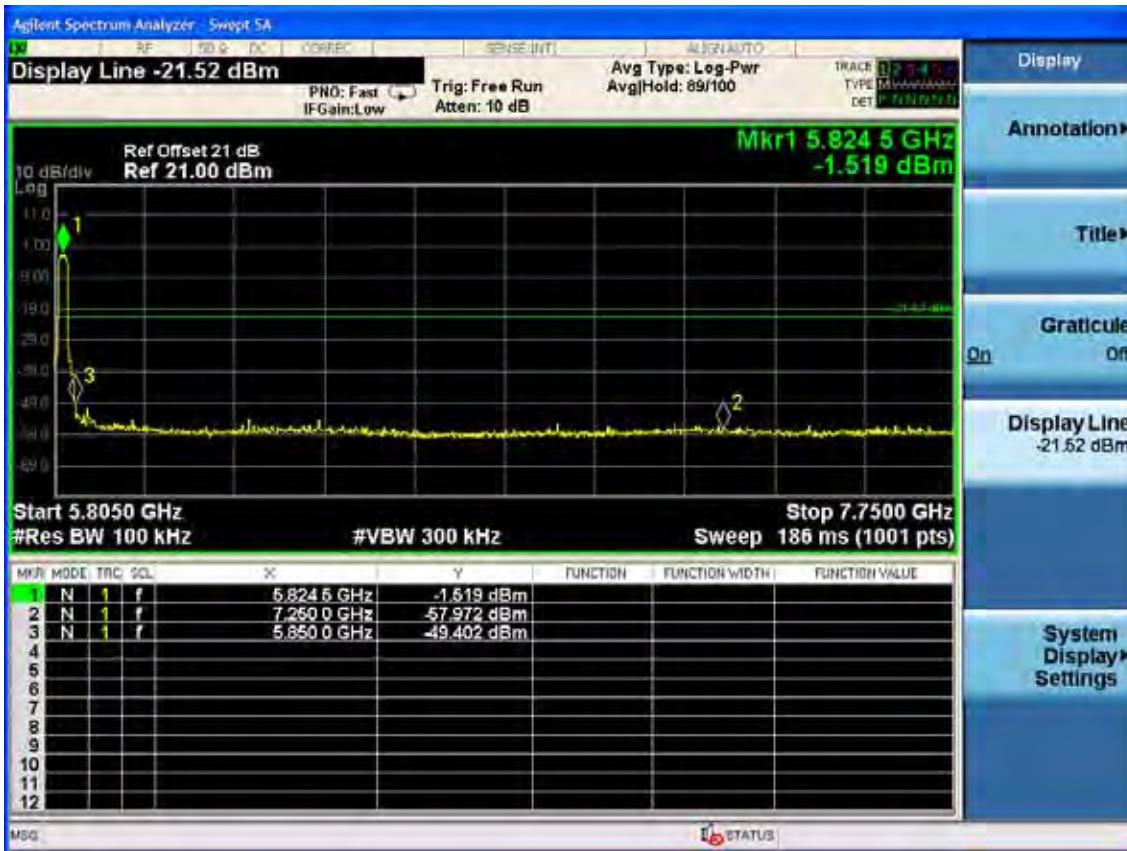


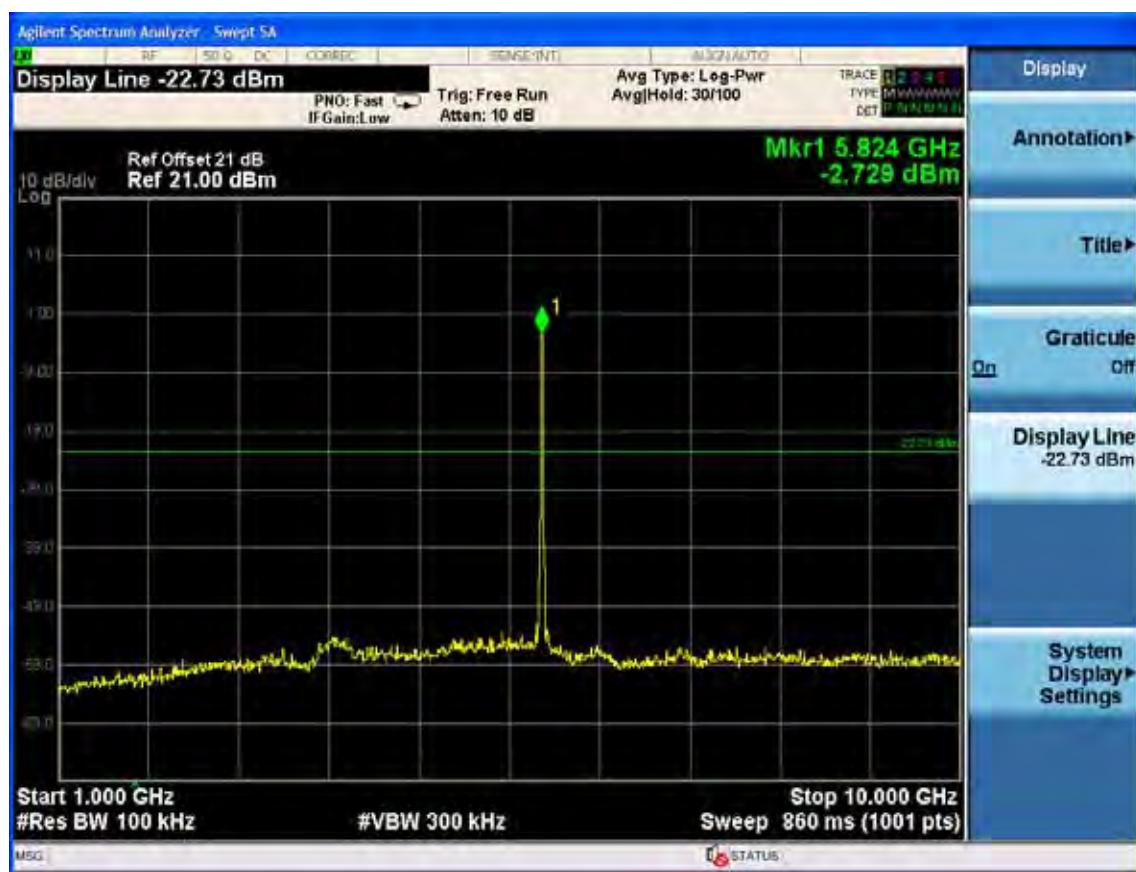
Test CH157: 5785MHz

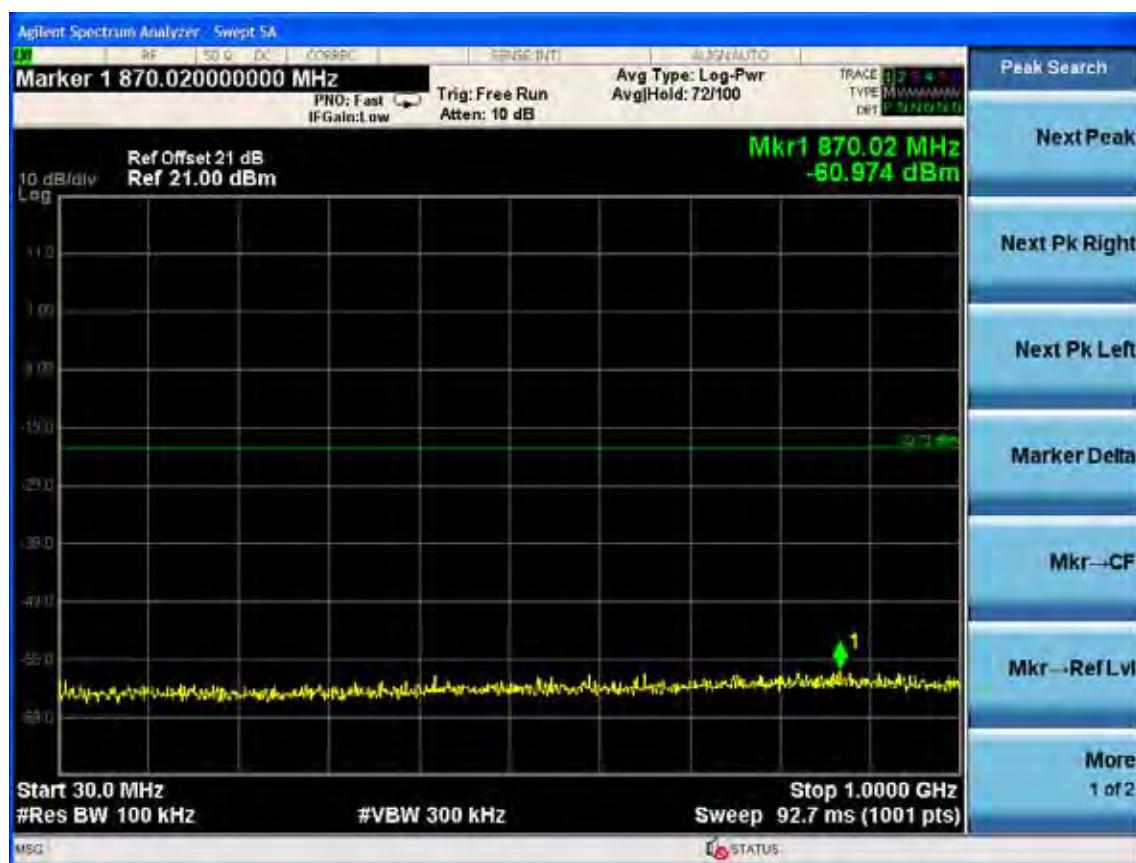




Test CH165: 5825MHz







Test Mode: IEEE 802.11n HT40 TX

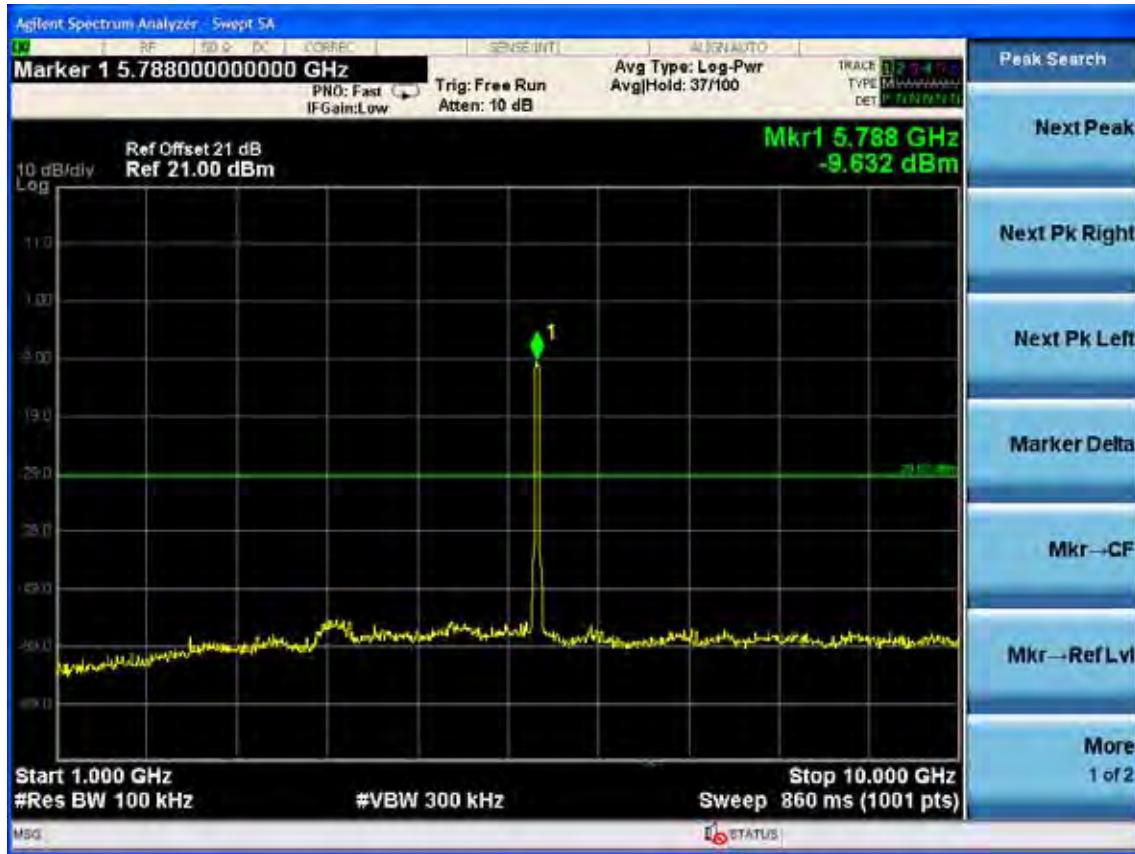
Test CH151: 5755MHz







Test CH159: 5795MHz







6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9607-4877	May.08, 12	1 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	1 Year

6.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

All the lower and upper band-edges emissions appearing within 5.35-5.46GHz and 7.25-7.75GHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 5725MHz to 5850MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

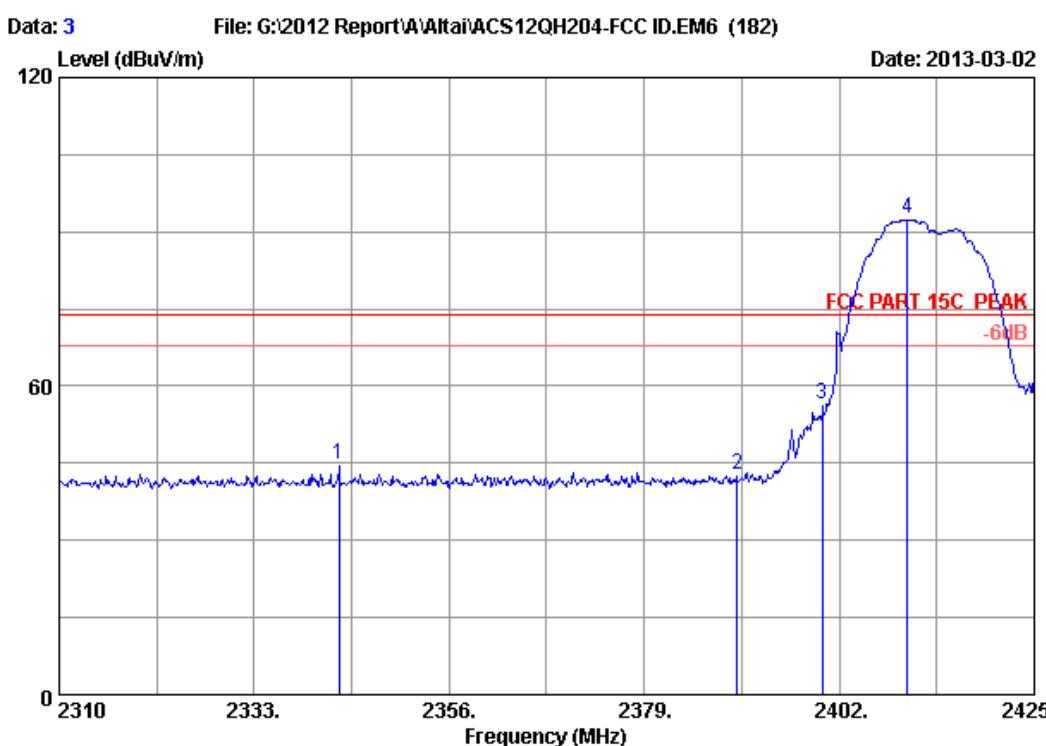
6.3. Test Produce

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

6.4. Test Results

Pass (The testing data was attached in the next pages.)

2.4G:



Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11b CH 1 2412MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2343.005	28.05	5.71	35.70	46.71	44.77	74.00	29.23	Peak	
2 2390.000	28.16	5.78	35.70	44.69	42.93	74.00	31.07	Peak	
3 2400.000	28.18	5.80	35.70	58.37	56.65	74.00	17.35	Peak	
4 2410.050	28.20	5.81	35.70	94.38	92.69	74.00	-18.69	Peak	
<hr/>									

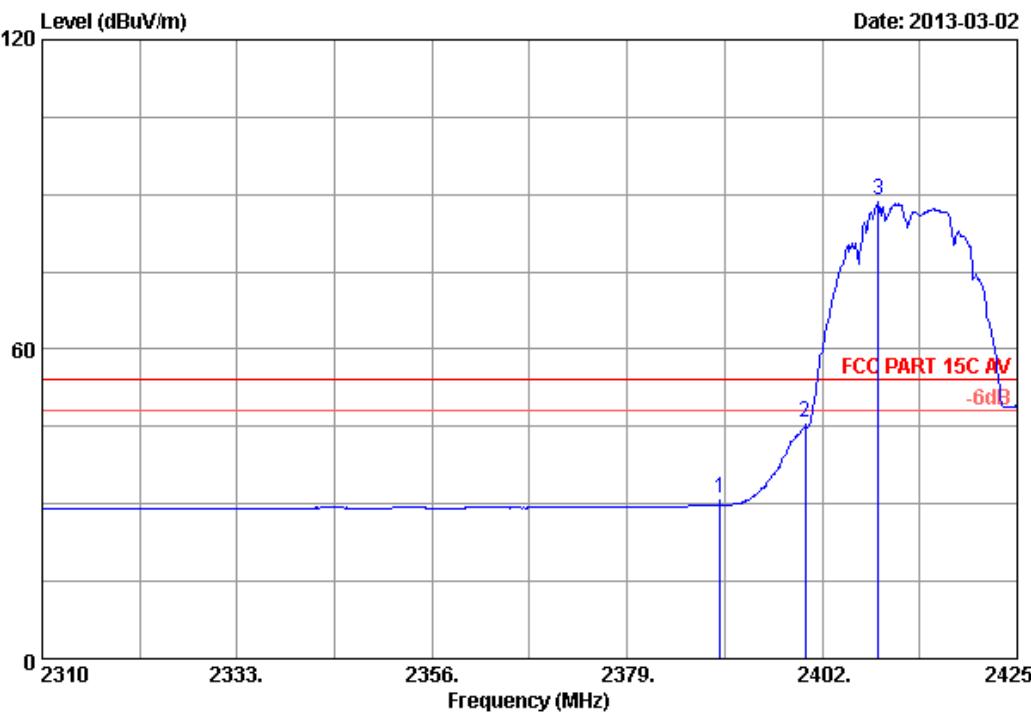
Remarks:

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: 4

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02

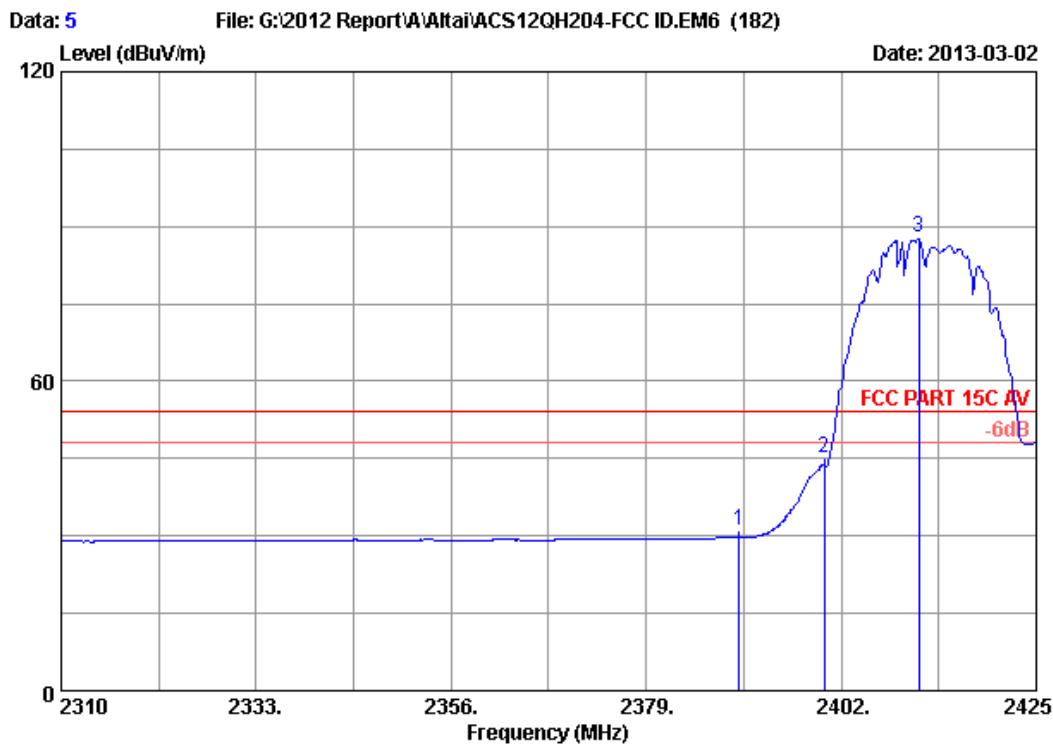


Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH 1 2412MHz Tx
 WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2390.000	28.16	5.78	35.70	32.94	31.18	54.00	22.82	Average	
2 2400.000	28.18	5.80	35.70	47.54	45.82	54.00	8.18	Average	
3 2408.670	28.20	5.81	35.70	90.52	88.83	54.00	-34.83	Average	
<hr/>									

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. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH 1 2412MHz Tx
 WA8011N-HE

	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	2390.000	28.16	5.78	35.70	32.86	31.10	54.00	22.90 Average
2	2400.000	28.18	5.80	35.70	46.78	45.06	54.00	8.94 Average
3	2411.200	28.20	5.81	35.70	89.57	87.88	54.00	-33.88 Average

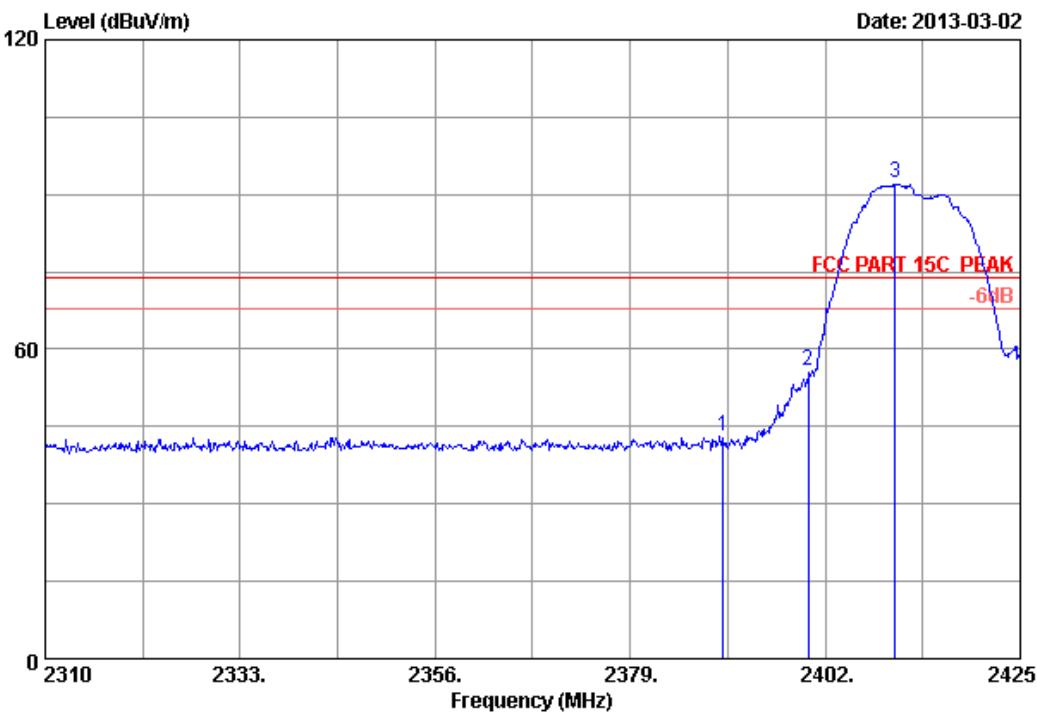
Remarks:

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

Data: 6

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH 1 2412MHz Tx
 WA8011N-HE

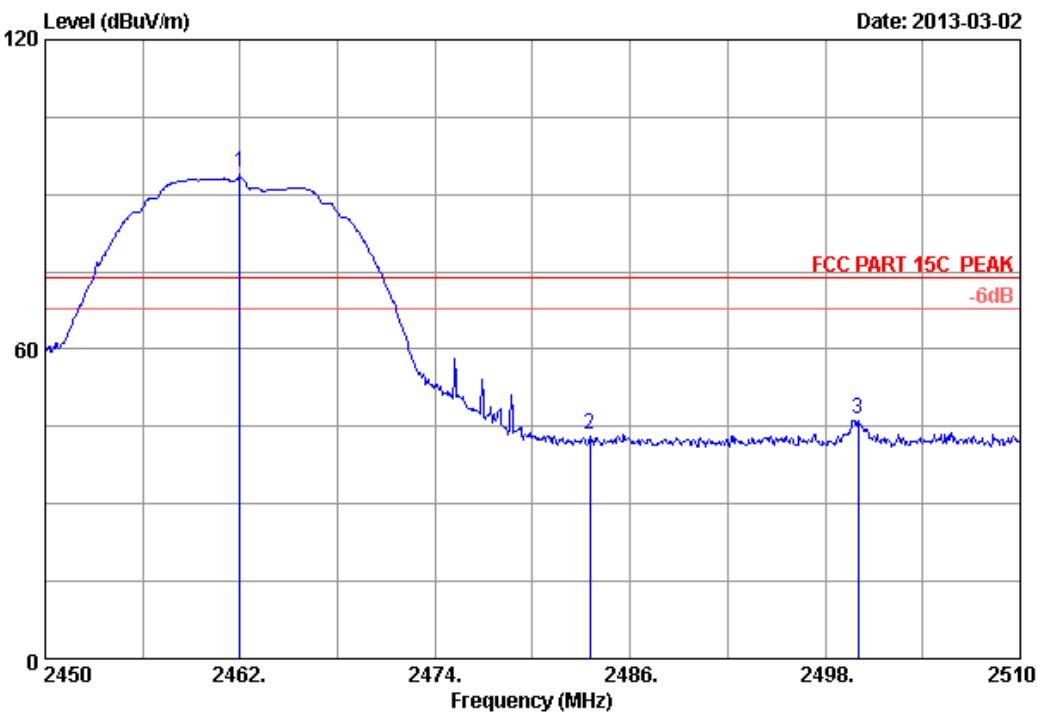
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.000	28.16	5.78	35.70	44.93	43.17	74.00	30.83	Peak
2 2400.000	28.18	5.80	35.70	57.62	55.90	74.00	18.10	Peak
3 2410.280	28.20	5.81	35.70	93.97	92.28	74.00	-18.28	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.

Data: 23 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH 11 2462MHz Tx
 WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2462.000	28.32	5.89	35.70	95.82	94.33	74.00	-20.33	Peak	
2 2483.500	28.36	5.92	35.70	44.99	43.57	74.00	30.43	Peak	
3 2500.000	28.40	5.94	35.70	47.97	46.61	74.00	27.39	Peak	
<hr/>									

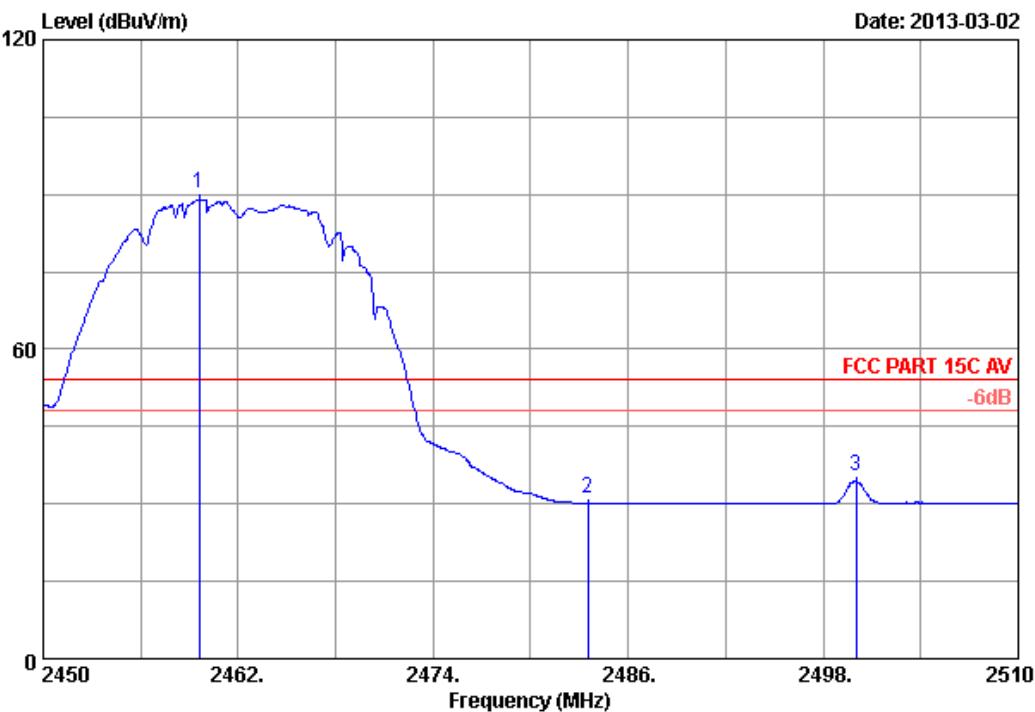
Remarks:

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: 24

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 24
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11b CH 11 2462MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2459.600	28.31	5.88	35.70	91.74	90.23	54.00	-36.23	Average	
2 2483.500	28.36	5.92	35.70	32.64	31.22	54.00	22.78	Average	
3 2500.000	28.40	5.94	35.70	36.75	35.39	54.00	18.61	Average	
<hr/>									

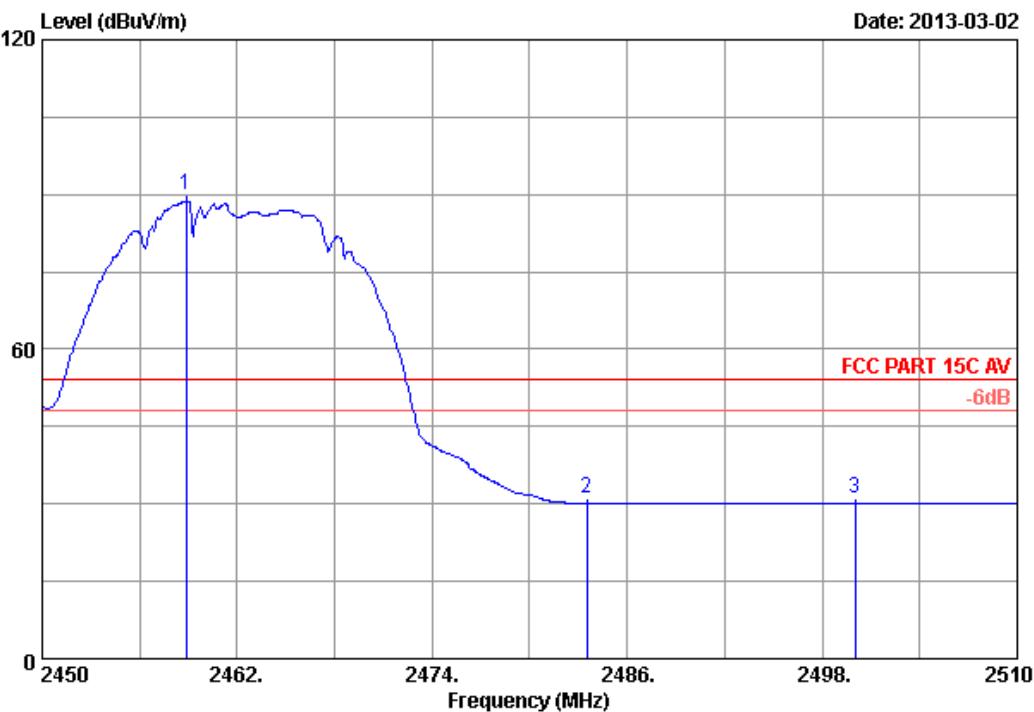
Remarks:

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: 25

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH 11 2462MHz Tx
 WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2458.880	28.31	5.88	35.70	91.27	89.76	54.00	-35.76	Average	
2 2483.500	28.36	5.92	35.70	32.63	31.21	54.00	22.79	Average	
3 2500.000	28.40	5.94	35.70	32.44	31.08	54.00	22.92	Average	
<hr/>									

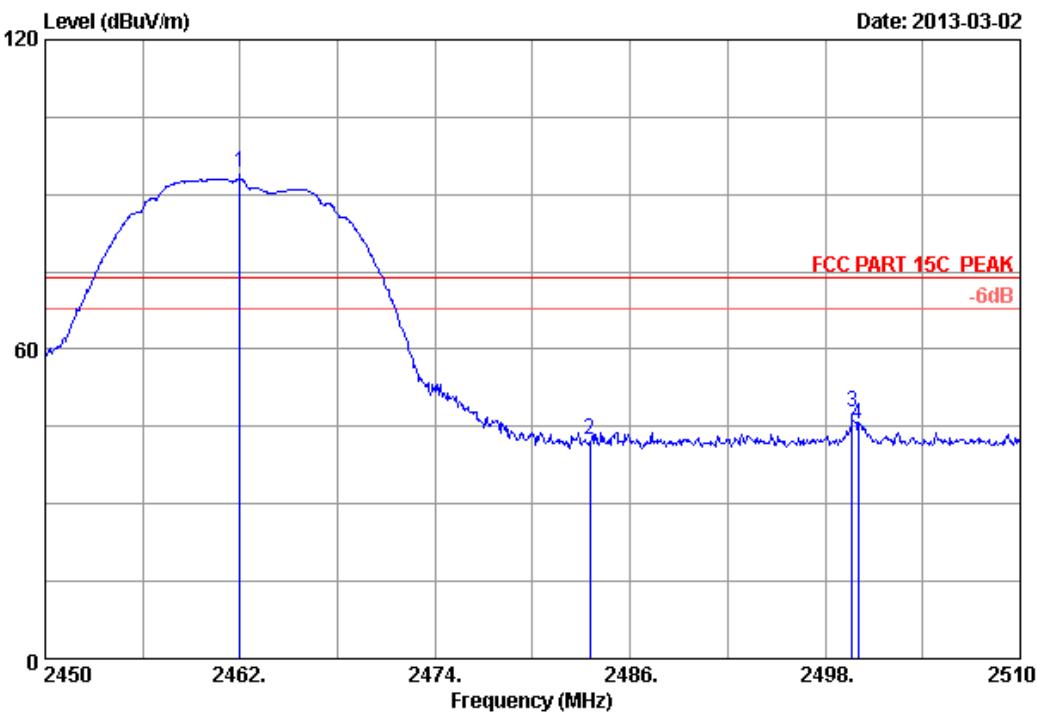
Remarks:

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: 26

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 26
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11b CH 11 2462MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2462.000	28.32	5.89	35.70	95.78	94.29	74.00	-20.29	Peak	
2 2483.500	28.36	5.92	35.70	44.01	42.59	74.00	31.41	Peak	
3 2499.680	28.40	5.94	35.70	49.01	47.65	74.00	26.35	Peak	
4 2500.000	28.40	5.94	35.70	46.94	45.58	74.00	28.42	Peak	
<hr/>									

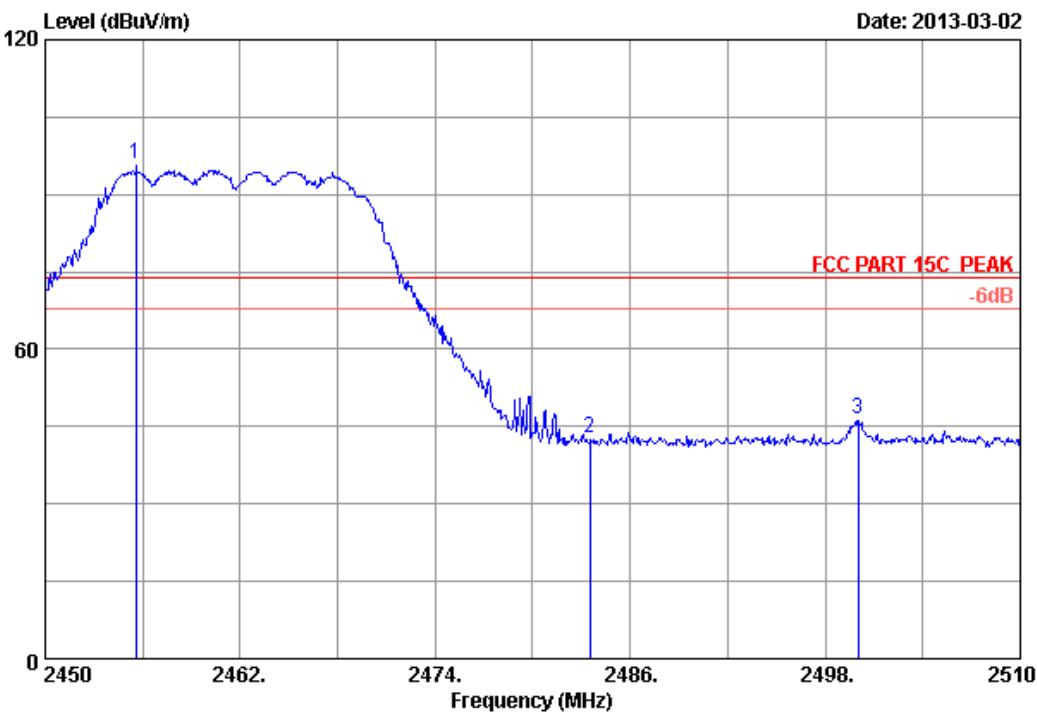
Remarks:

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: 27

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11g CH 11 2462MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2455.580	28.30	5.88	35.70	97.61	96.09	74.00	-22.09	Peak	
2 2483.500	28.36	5.92	35.70	44.29	42.87	74.00	31.13	Peak	
3 2500.000	28.40	5.94	35.70	47.74	46.38	74.00	27.62	Peak	
<hr/>									

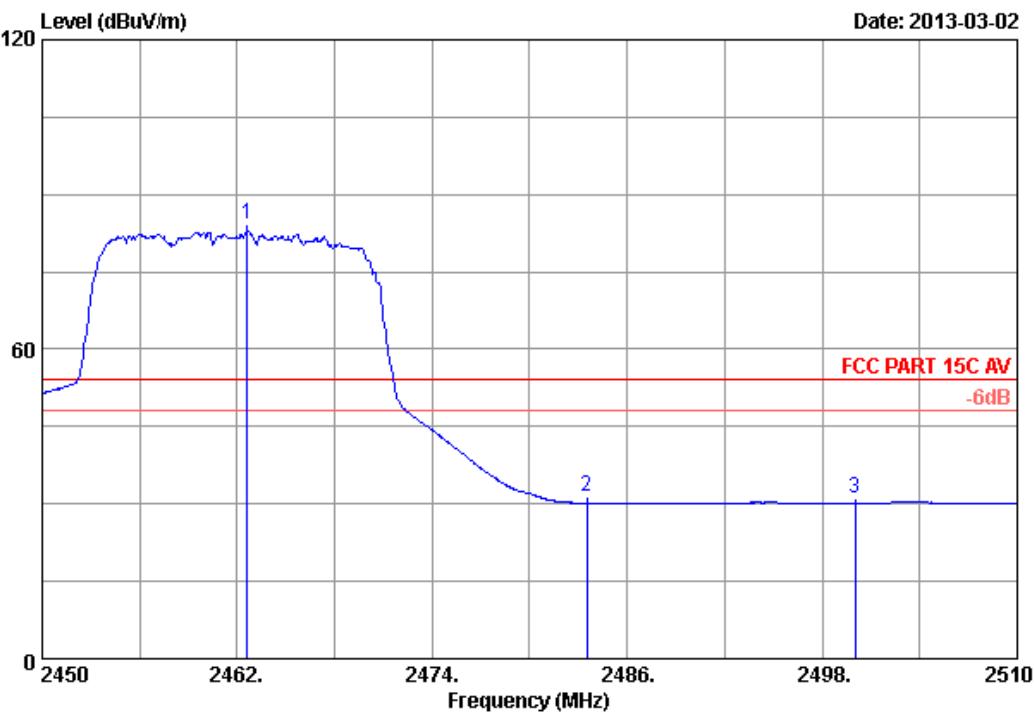
Remarks:

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: 28

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH 11 2462MHz Tx
 WA8011N-HE

	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	2462.600	28.32	5.89	35.70	85.77	84.28	54.00	-30.28 Average
2	2483.500	28.36	5.92	35.70	32.68	31.26	54.00	22.74 Average
3	2500.000	28.40	5.94	35.70	32.49	31.13	54.00	22.87 Average

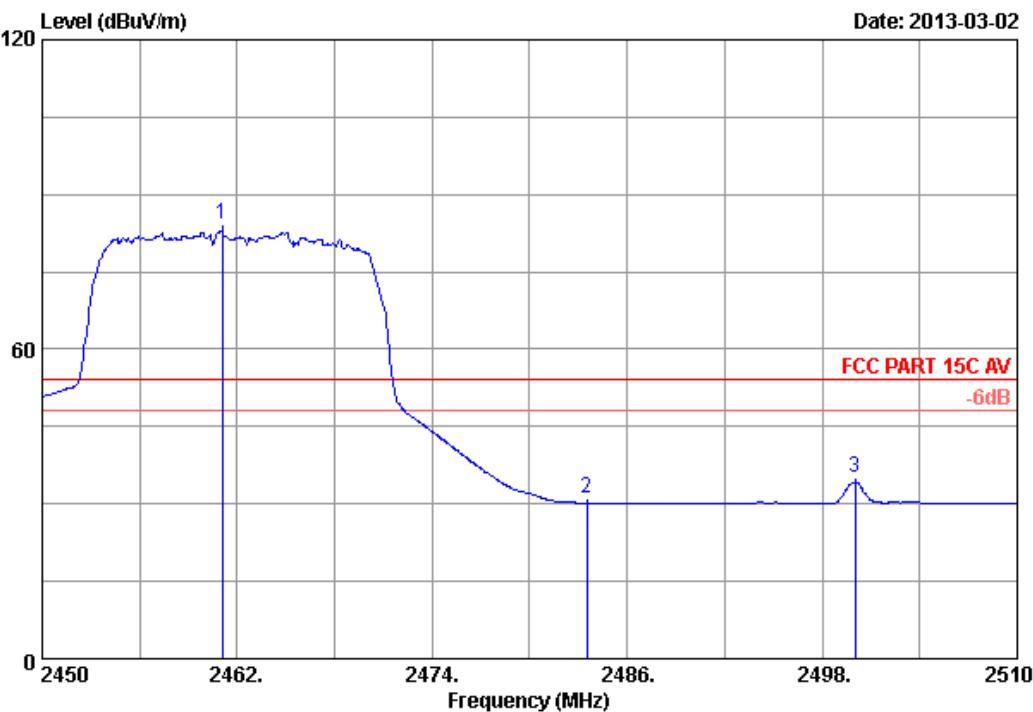
Remarks:

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

Data: 29

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH 11 2462MHz Tx
 WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2461.100	28.31	5.89	35.70	85.60	84.10	54.00	-30.10	Average	
2 2483.500	28.36	5.92	35.70	32.66	31.24	54.00	22.76	Average	
3 2500.000	28.40	5.94	35.70	36.54	35.18	54.00	18.82	Average	
<hr/>									

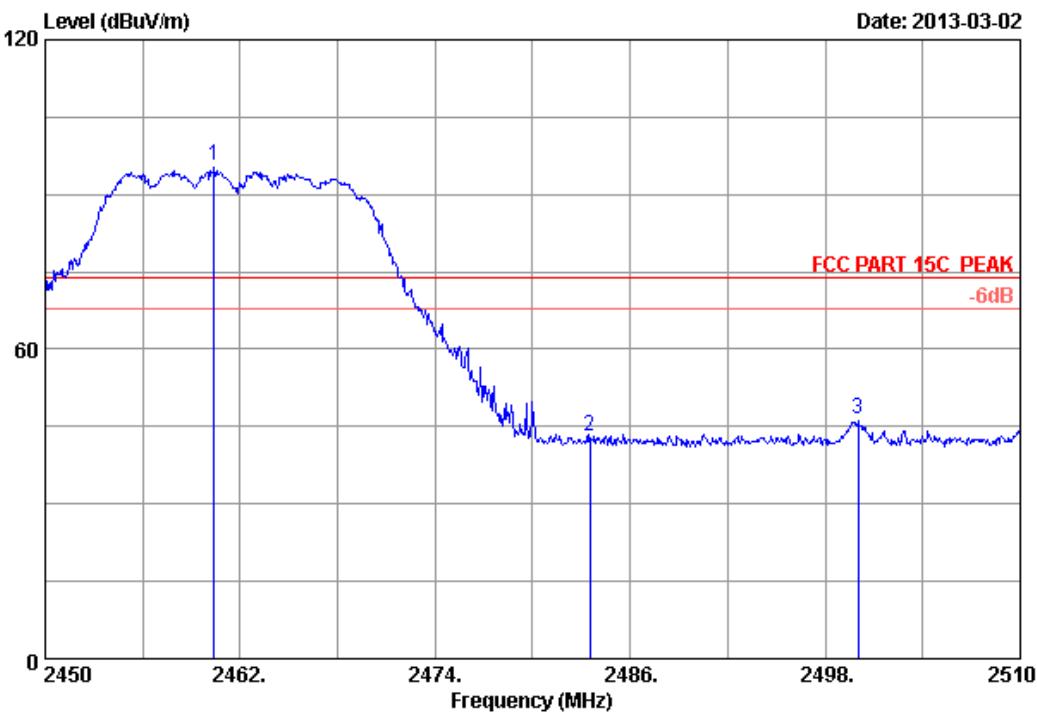
Remarks:

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: 30

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 30
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11g CH 11 2462MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2460.380	28.31	5.88	35.70	97.21	95.70	74.00	-21.70	Peak	
2 2483.500	28.36	5.92	35.70	44.54	43.12	74.00	30.88	Peak	
3 2500.000	28.40	5.94	35.70	47.69	46.33	74.00	27.67	Peak	
<hr/>									

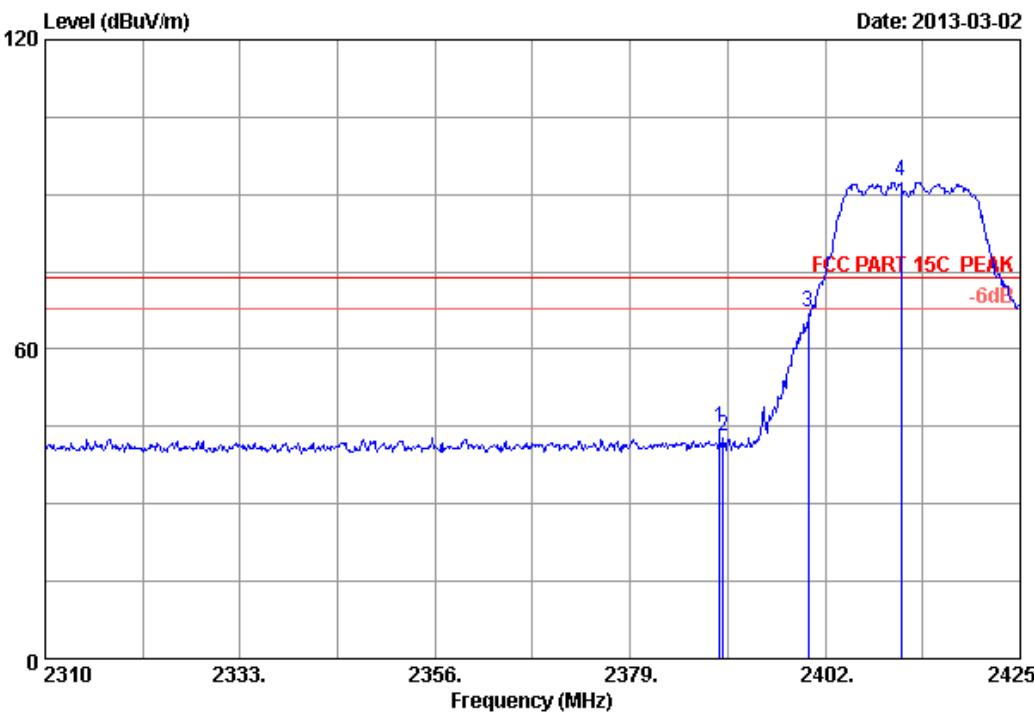
Remarks:

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: 49

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 49
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH 1 2412MHz Tx
 WA8011N-HE

	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	2389.580	28.16	5.78	35.70	46.47	44.71	74.00	29.29 Peak
2	2390.000	28.16	5.78	35.70	44.91	43.15	74.00	30.85 Peak
3	2400.000	28.18	5.80	35.70	69.01	67.29	74.00	6.71 Peak
4	2410.970	28.20	5.81	35.70	94.31	92.62	74.00	-18.62 Peak

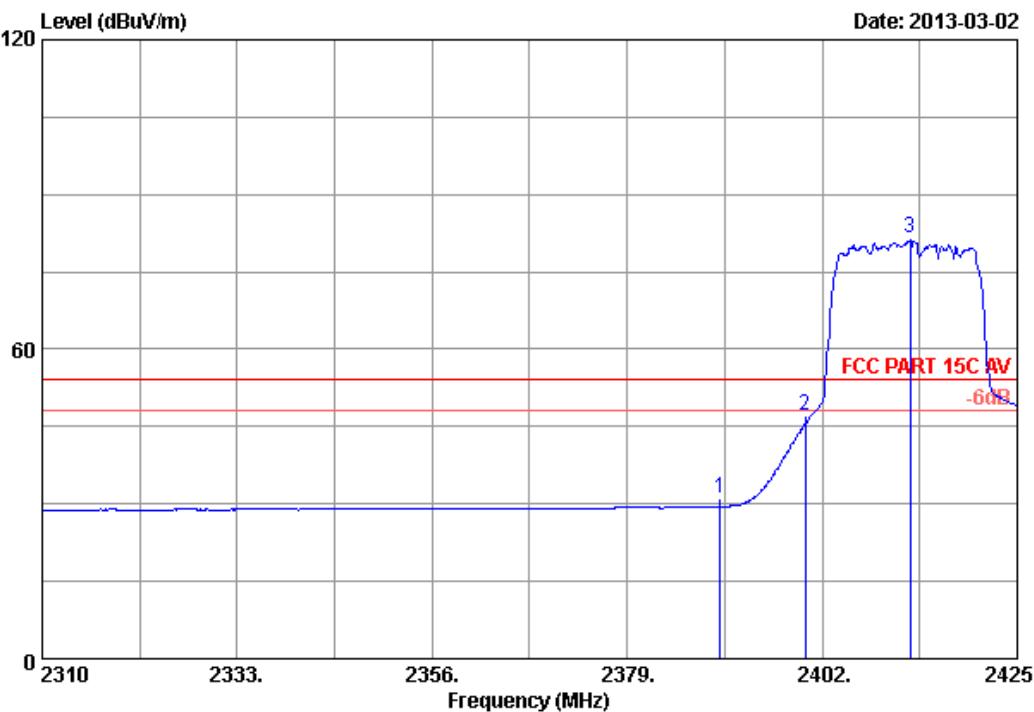
Remarks:

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: 50

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH 1 2412MHz Tx
 WA8011N-HE

	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	2390.000	28.16	5.78	35.70	32.72	30.96	54.00	23.04 Average
2	2400.000	28.18	5.80	35.70	48.88	47.16	54.00	6.84 Average
3	2412.350	28.21	5.81	35.70	83.11	81.43	54.00	-27.43 Average

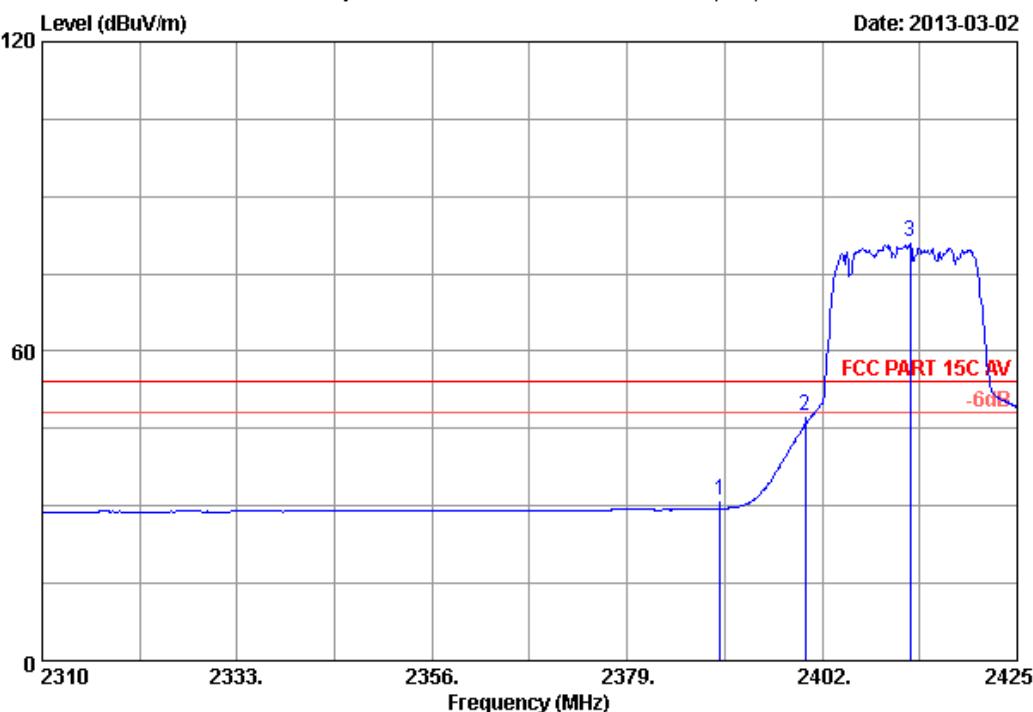
Remarks:

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

Data: 51

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 51
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11g CH 1 2412MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2390.000	28.16	5.78	35.70	32.73	30.97	54.00	23.03	Average	
2 2400.000	28.18	5.80	35.70	49.18	47.46	54.00	6.54	Average	
3 2412.350	28.21	5.81	35.70	82.85	81.17	54.00	-27.17	Average	
<hr/>									

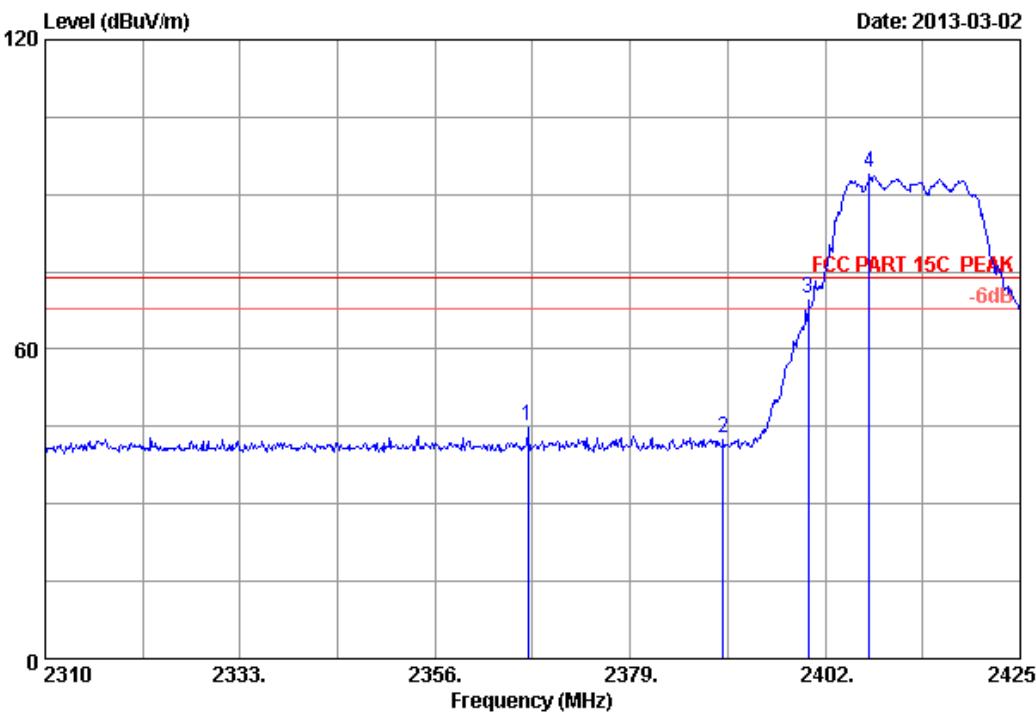
Remarks:

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: 52

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH 1 2412MHz Tx
 WA8011N-HE

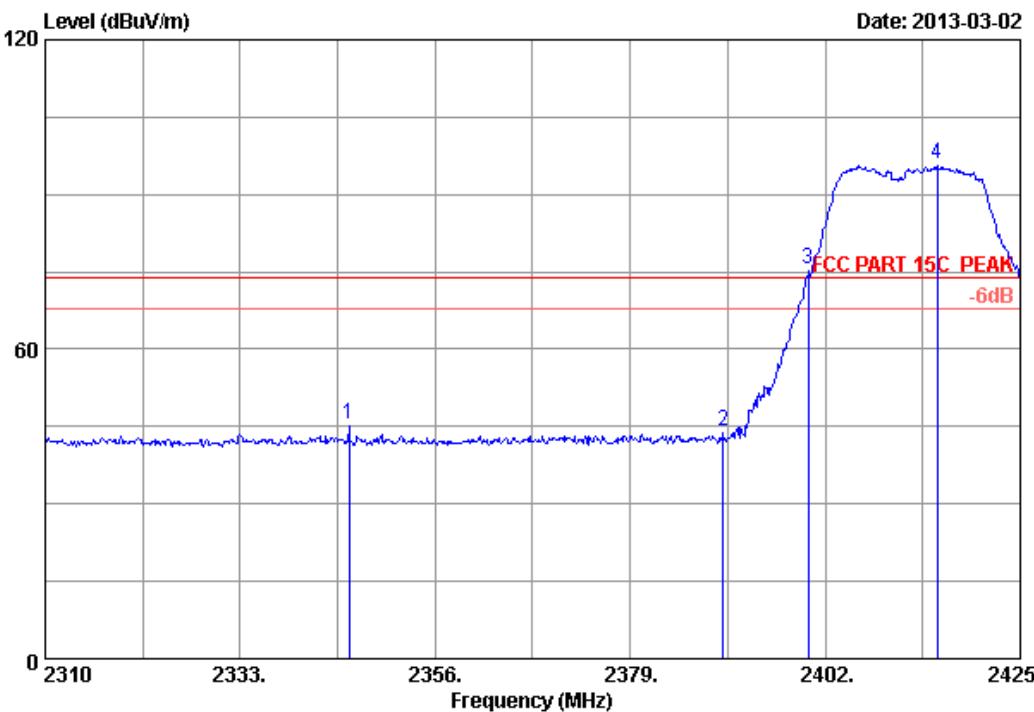
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2366.925	28.11	5.75	35.70	46.87	45.03	74.00	28.97 Peak
2	2390.000	28.16	5.78	35.70	44.45	42.69	74.00	31.31 Peak
3	2400.000	28.18	5.80	35.70	71.51	69.79	74.00	4.21 Peak
4	2407.175	28.20	5.81	35.70	95.85	94.16	74.00	-20.16 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: 53 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 53
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH 1 2412MHz Tx
 WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2345.880	28.06	5.72	35.70	47.36	45.44	74.00	28.56	Peak	
2 2390.000	28.16	5.78	35.70	46.02	44.26	74.00	29.74	Peak	
3 2400.000	28.18	5.80	35.70	77.38	75.66	74.00	-1.66	Peak	
4 2415.225	28.21	5.82	35.70	97.66	95.99	74.00	-21.99	Peak	
<hr/>									

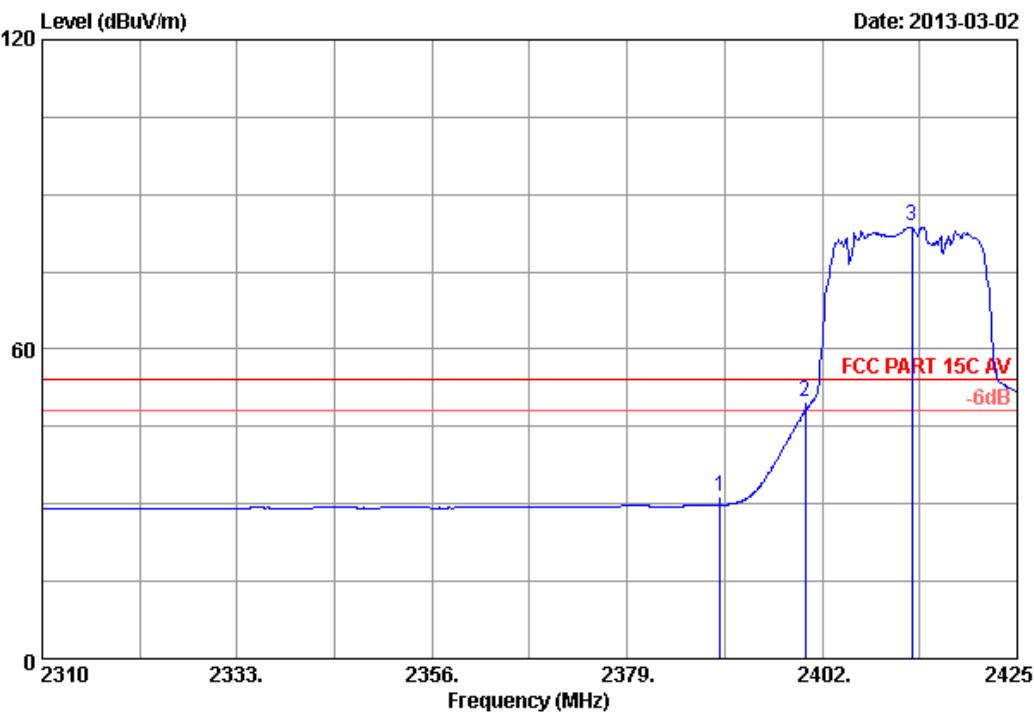
Remarks:

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: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 54
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH 1 2412MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2390.000	28.16	5.78	35.70	33.04	31.28	54.00	22.72	Average	
2 2400.000	28.18	5.80	35.70	51.46	49.74	54.00	4.26	Average	
3 2412.580	28.21	5.82	35.70	85.67	84.00	54.00	-30.00	Average	
<hr/>									

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: 55

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH 1 2412MHz Tx
 WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2390.000	28.16	5.78	35.70	32.98	31.22	54.00	22.78	Average	
2 2400.000	28.18	5.80	35.70	49.85	48.13	54.00	5.87	Average	
3 2412.350	28.21	5.81	35.70	84.24	82.56	54.00	-28.56	Average	
<hr/>									

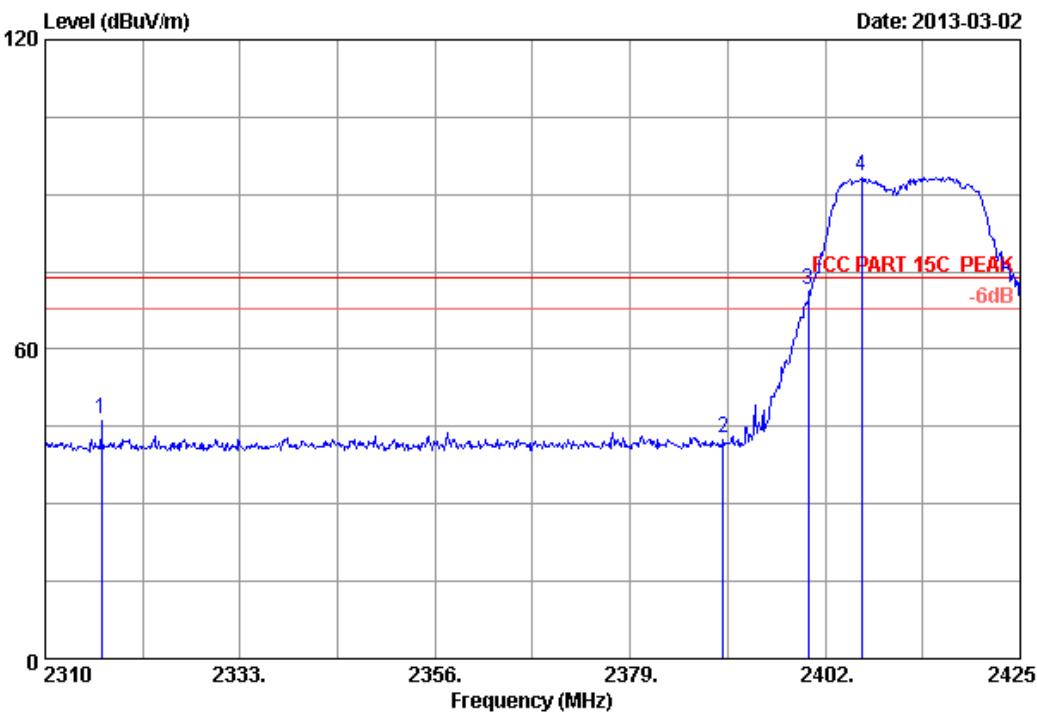
Remarks:

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: 56

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH 1 2412MHz Tx
 WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2316.670	28.00	5.68	35.70	48.38	46.36	74.00	27.64	Peak	
2 2390.000	28.16	5.78	35.70	44.57	42.81	74.00	31.19	Peak	
3 2400.000	28.18	5.80	35.70	73.10	71.38	74.00	2.62	Peak	
4 2406.255	28.19	5.81	35.70	95.40	93.70	74.00	-19.70	Peak	
<hr/>									

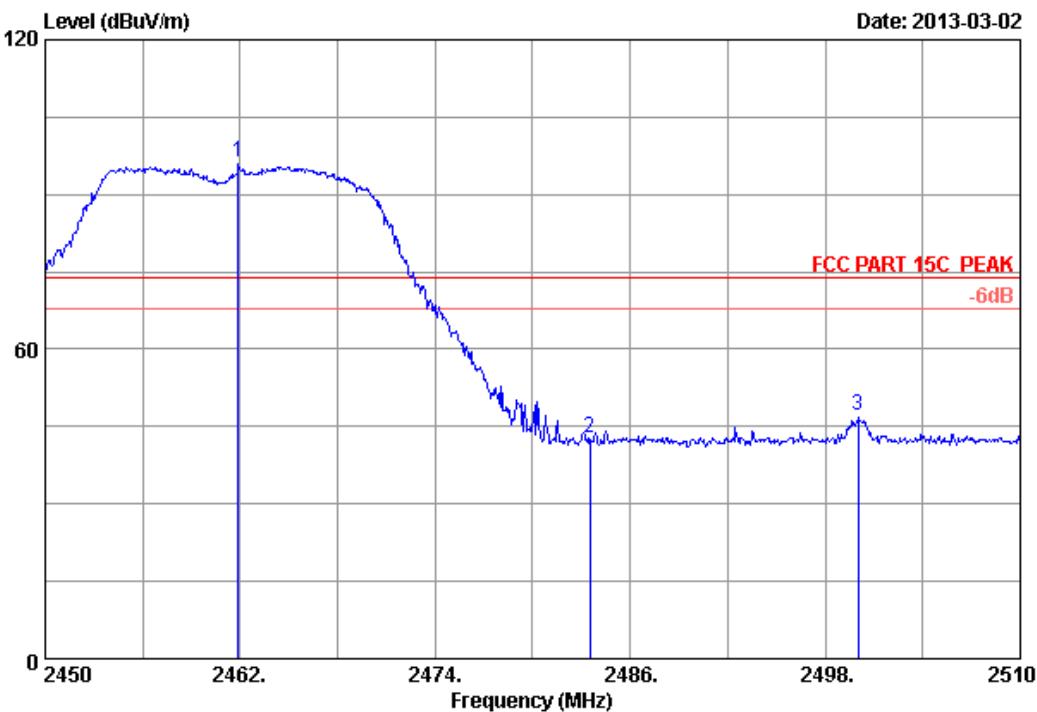
Remarks:

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: 75

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 75
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH 11 2462MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2461.880	28.32	5.89	35.70	97.59	96.10	74.00	-22.10	Peak	
2 2483.500	28.36	5.92	35.70	44.14	42.72	74.00	31.28	Peak	
3 2500.000	28.40	5.94	35.70	48.61	47.25	74.00	26.75	Peak	
<hr/>									

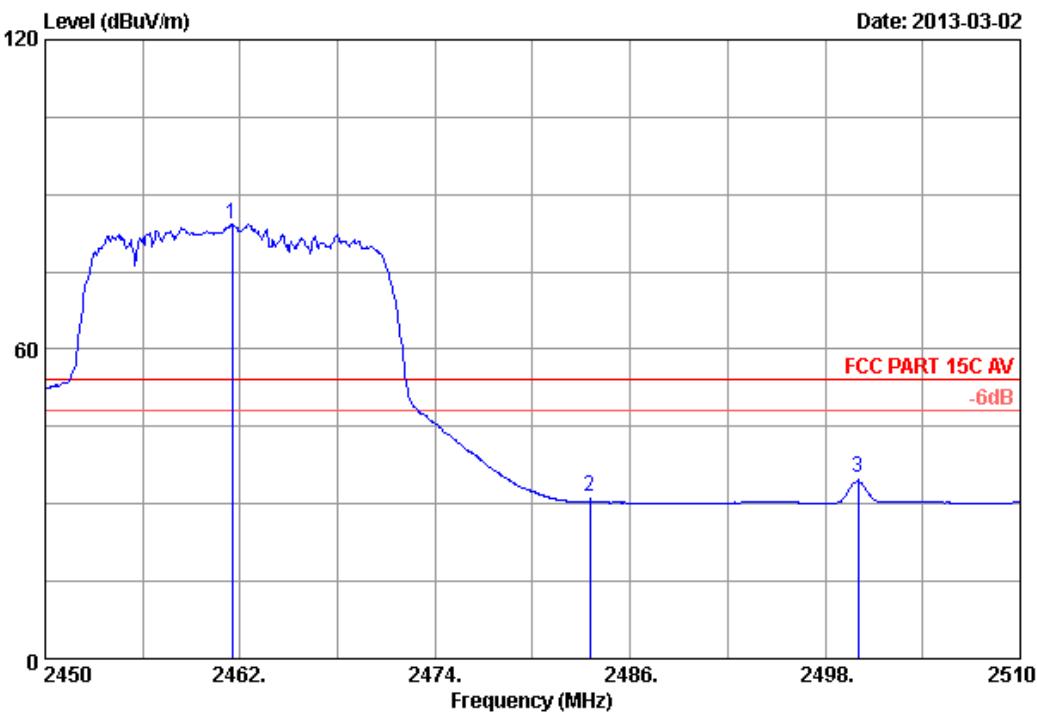
Remarks:

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: 76

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 76
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH 11 2462MHz Tx
 WA8011N-HE

	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	2461.520	28.32	5.89	35.70	85.84	84.35	54.00	-30.35 Average
2	2483.500	28.36	5.92	35.70	32.77	31.35	54.00	22.65 Average
3	2500.000	28.40	5.94	35.70	36.62	35.26	54.00	18.74 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.

Data: 77

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 77
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH 11 2462MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2462.180	28.32	5.89	35.70	86.14	84.65	54.00	-30.65	Average	
2 2483.500	28.36	5.92	35.70	32.79	31.37	54.00	22.63	Average	
3 2500.000	28.40	5.94	35.70	39.51	38.15	54.00	15.85	Average	
<hr/>									

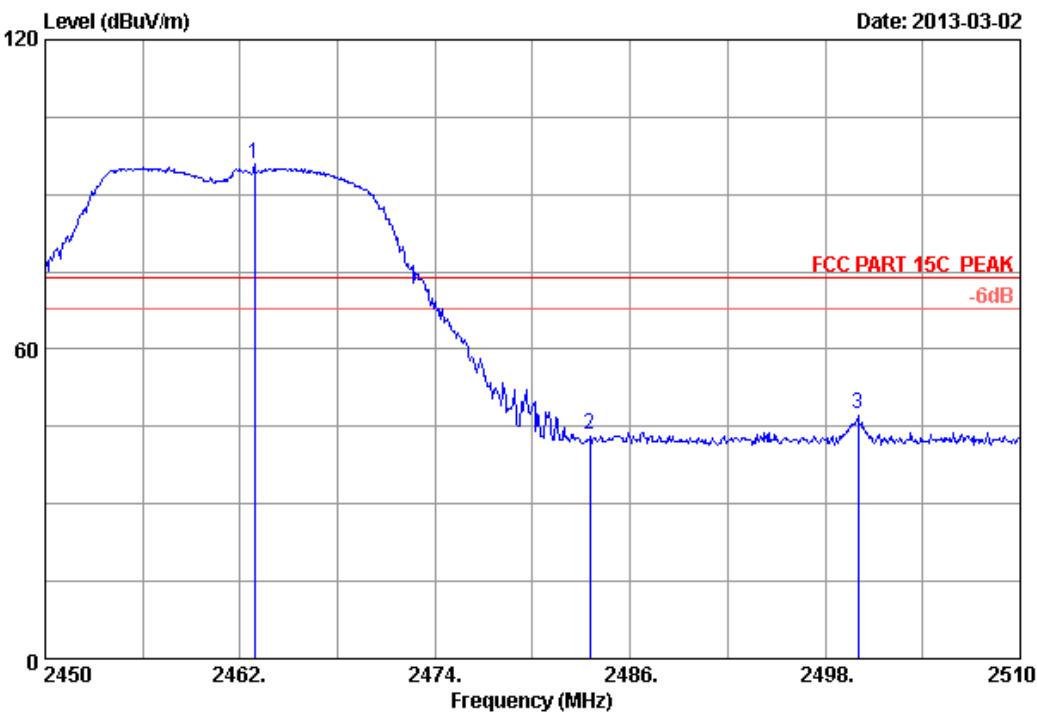
Remarks:

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: 78

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 78
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH 11 2462MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2462.900	28.32	5.89	35.70	97.41	95.92	74.00	-21.92	Peak	
2 2483.500	28.36	5.92	35.70	44.98	43.56	74.00	30.44	Peak	
3 2500.000	28.40	5.94	35.70	48.70	47.34	74.00	26.66	Peak	
<hr/>									

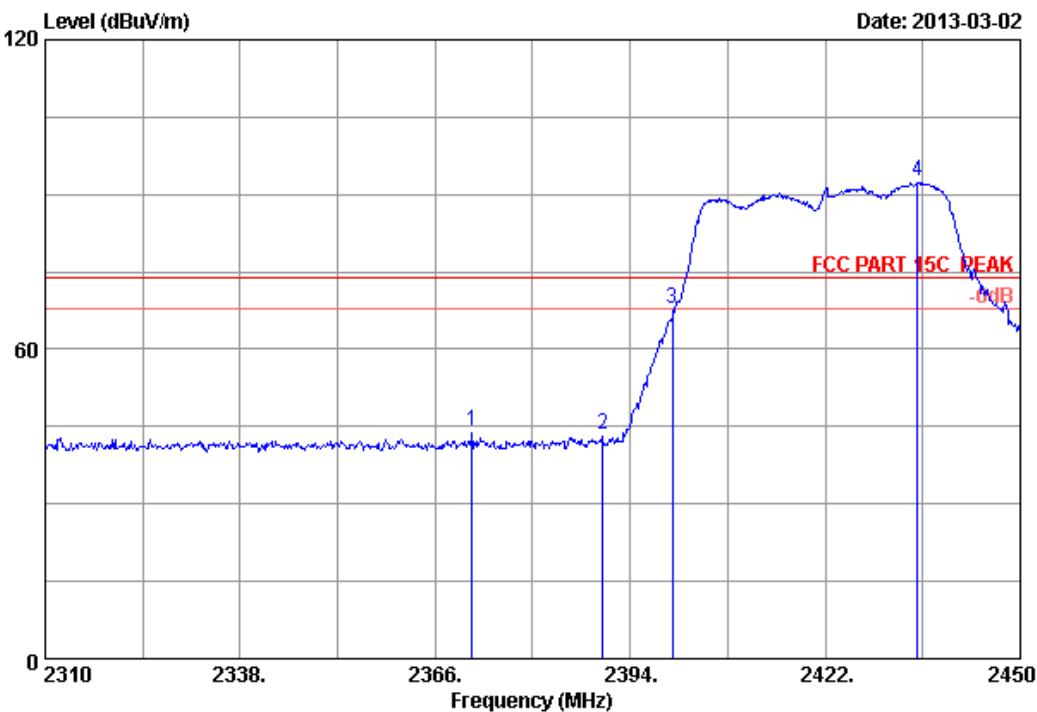
Remarks:

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: 79

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 79
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2371.320	28.12	5.76	35.70	46.10	44.28	74.00	29.72	Peak
2 2390.000	28.16	5.78	35.70	45.36	43.60	74.00	30.40	Peak
3 2400.000	28.18	5.80	35.70	69.48	67.76	74.00	6.24	Peak
4 2435.300	28.26	5.85	35.70	94.24	92.65	74.00	-18.65	Peak

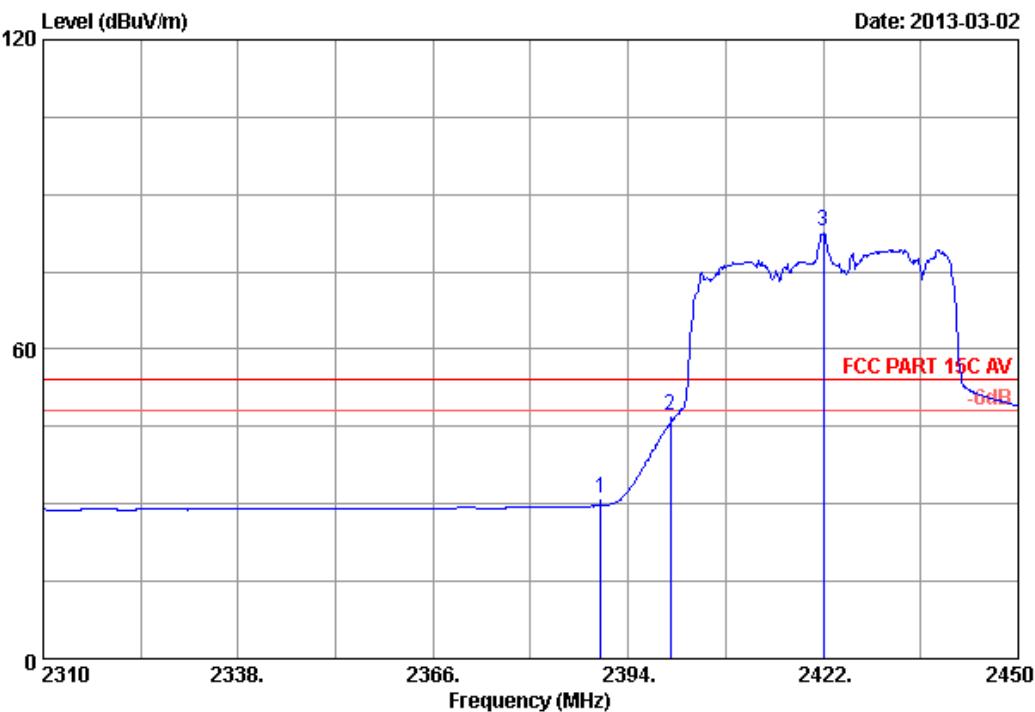
Remarks:

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: 80

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 80
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2390.000	28.16	5.78	35.70	32.82	31.06	54.00	22.94	Average	
2 2400.000	28.18	5.80	35.70	48.88	47.16	54.00	6.84	Average	
3 2422.000	28.23	5.83	35.70	84.43	82.79	54.00	-28.79	Average	
<hr/>									

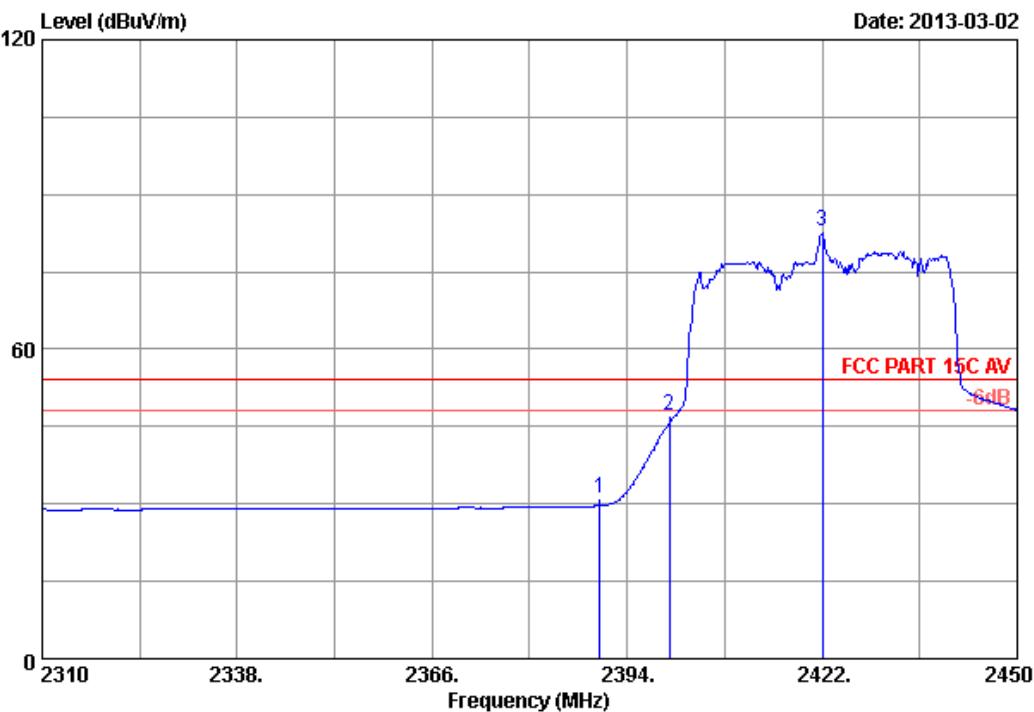
Remarks:

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: 81

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 81
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx
 WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2390.000	28.16	5.78	35.70	32.85	31.09	54.00	22.91	Average	
2 2400.000	28.18	5.80	35.70	48.81	47.09	54.00	6.91	Average	
3 2422.000	28.23	5.83	35.70	84.41	82.77	54.00	-28.77	Average	
<hr/>									

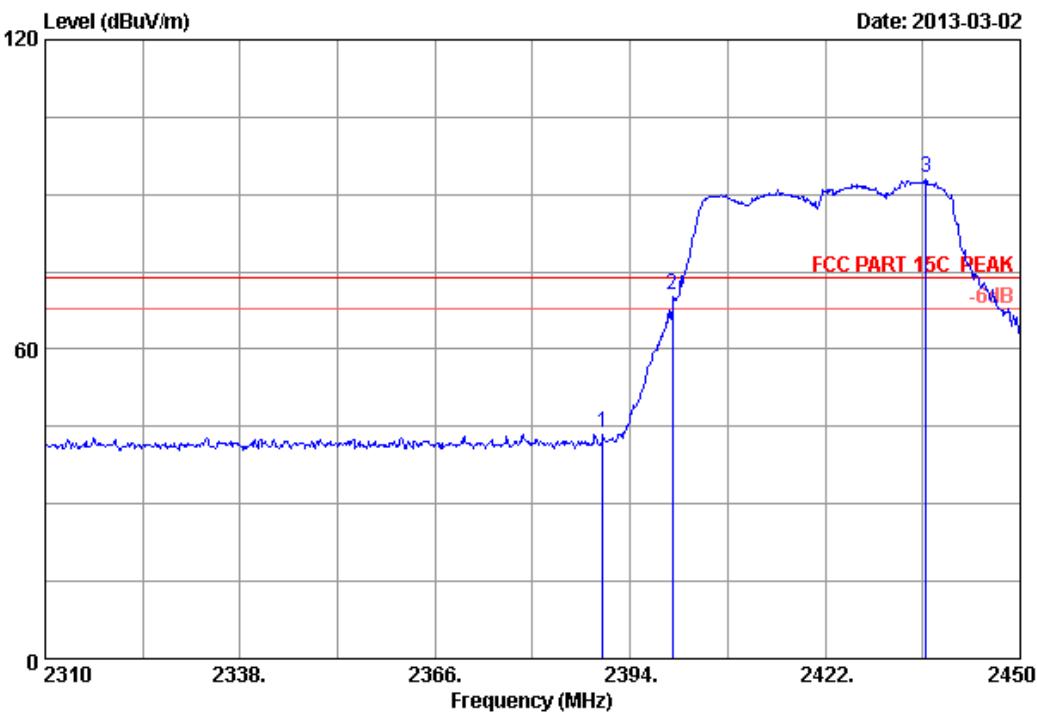
Remarks:

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: 82

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 82
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2390.000	28.16	5.78	35.70	45.45	43.69	74.00	30.31	Peak
2 2400.000	28.18	5.80	35.70	72.13	70.41	74.00	3.59	Peak
3 2436.420	28.26	5.85	35.70	94.79	93.20	74.00	-19.20	Peak

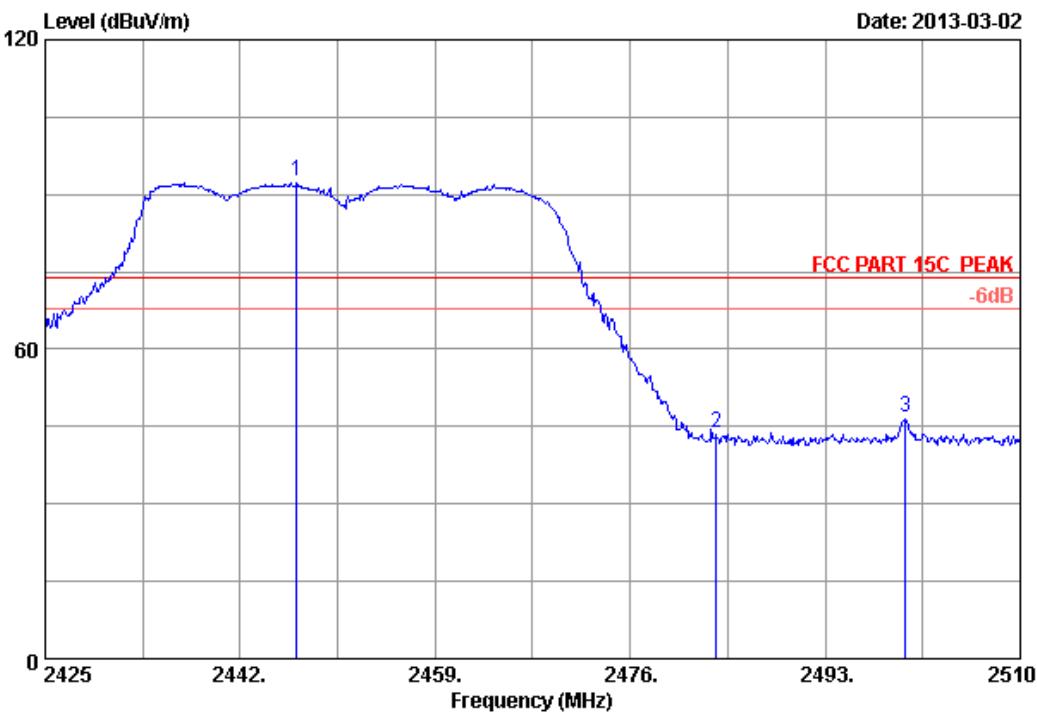
Remarks:

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: 97

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 97
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH 7 2452MHz Tx
 WA8011N-HE

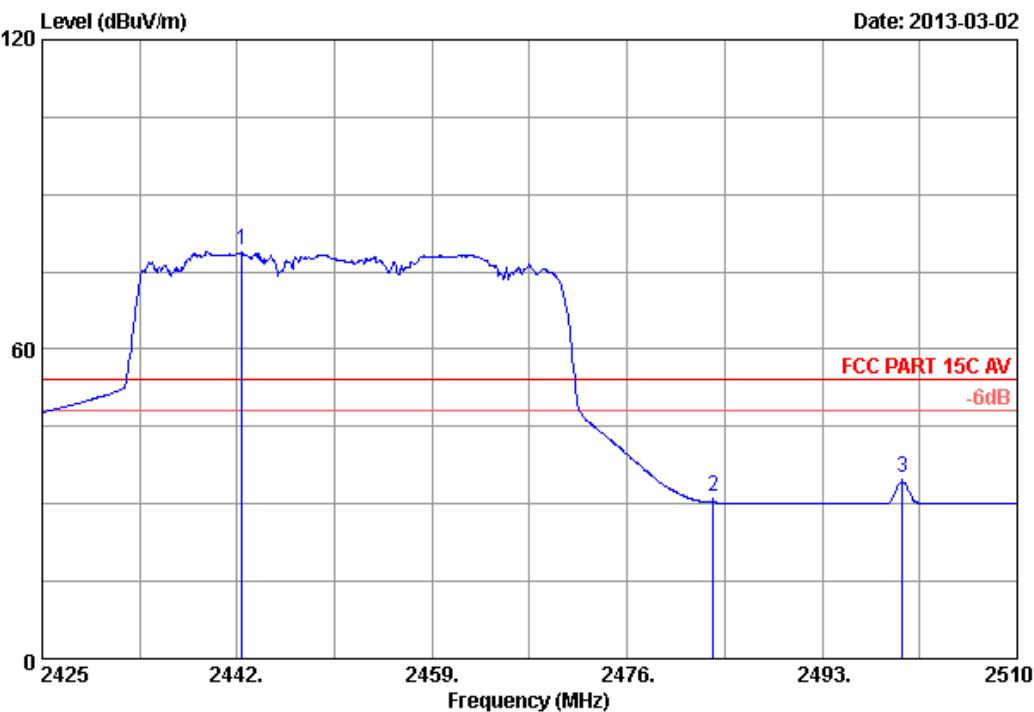
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2446.930	28.28	5.87	35.70	94.05	92.50	74.00	-18.50	Peak	
2 2483.500	28.36	5.92	35.70	45.17	43.75	74.00	30.25	Peak	
3 2500.000	28.40	5.94	35.70	48.01	46.65	74.00	27.35	Peak	
<hr/>									

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: 98 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02

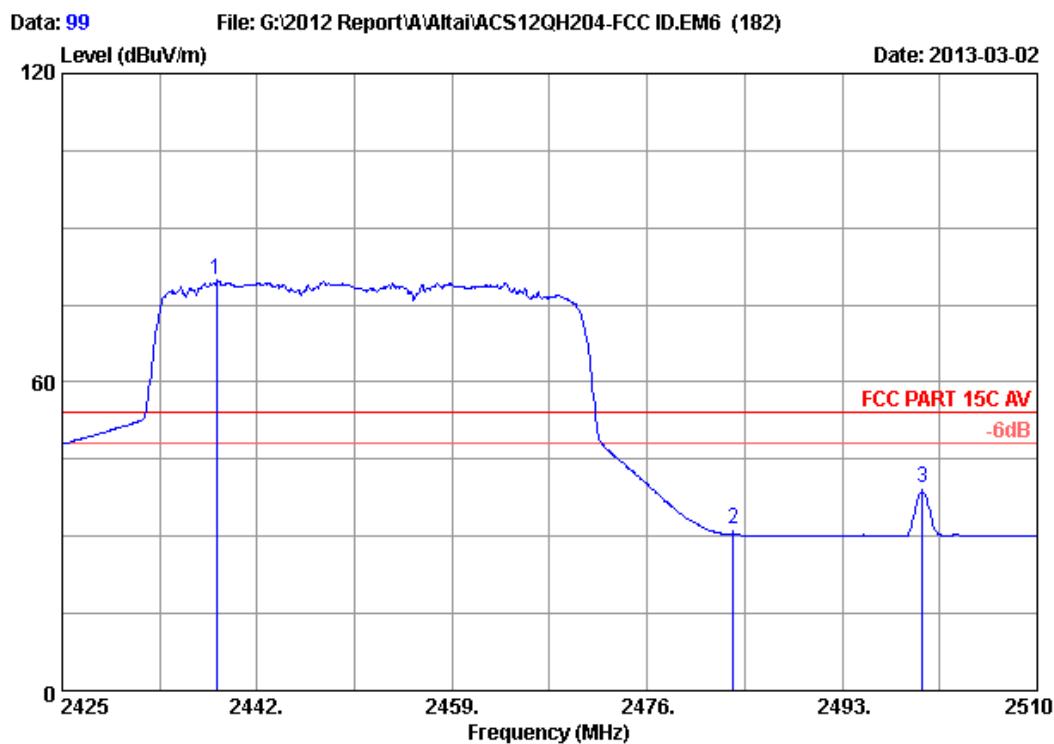


Site no. : 3m Chamber Data no. : 98
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH 7 2452MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2442.425	28.27	5.86	35.70	80.68	79.11	54.00	-25.11	Average	
2 2483.500	28.36	5.92	35.70	32.74	31.32	54.00	22.68	Average	
3 2500.000	28.40	5.94	35.70	36.51	35.15	54.00	18.85	Average	
<hr/>									

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. : 3m Chamber Data no. : 99
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH 7 2452MHz Tx
 WA8011N-HE

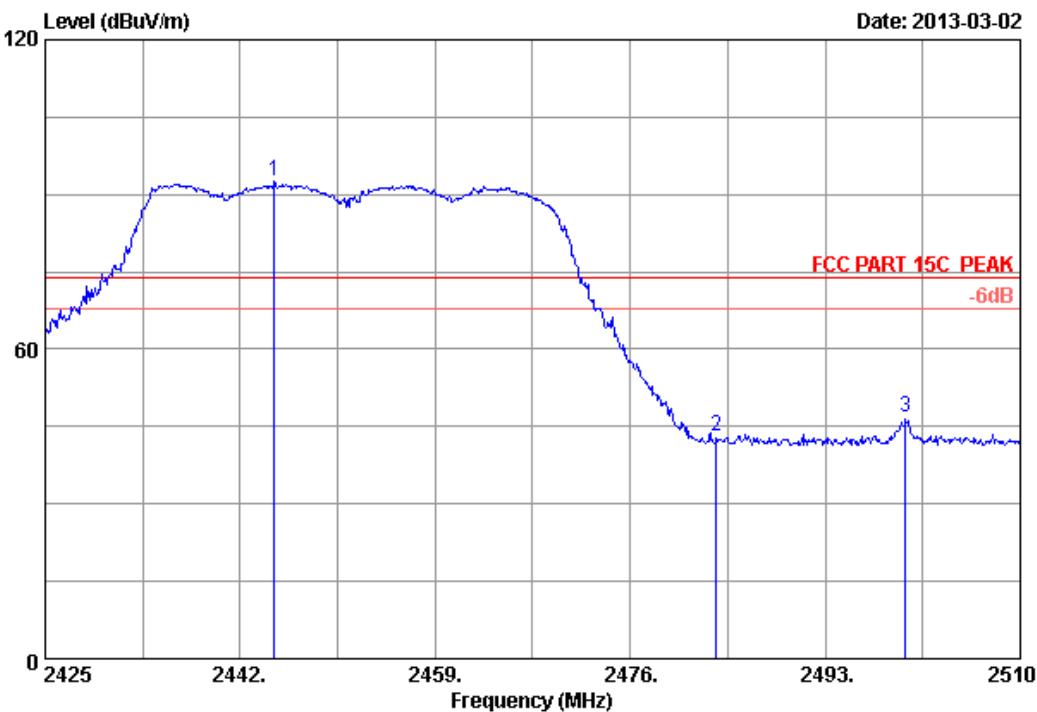
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission				
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2438.430	28.26	5.85	35.70	81.57	79.98	54.00	-25.98	Average
2 2483.500	28.36	5.92	35.70	32.76	31.34	54.00	22.66	Average
3 2500.000	28.40	5.94	35.70	40.85	39.49	54.00	14.51	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.

Data: 100 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02

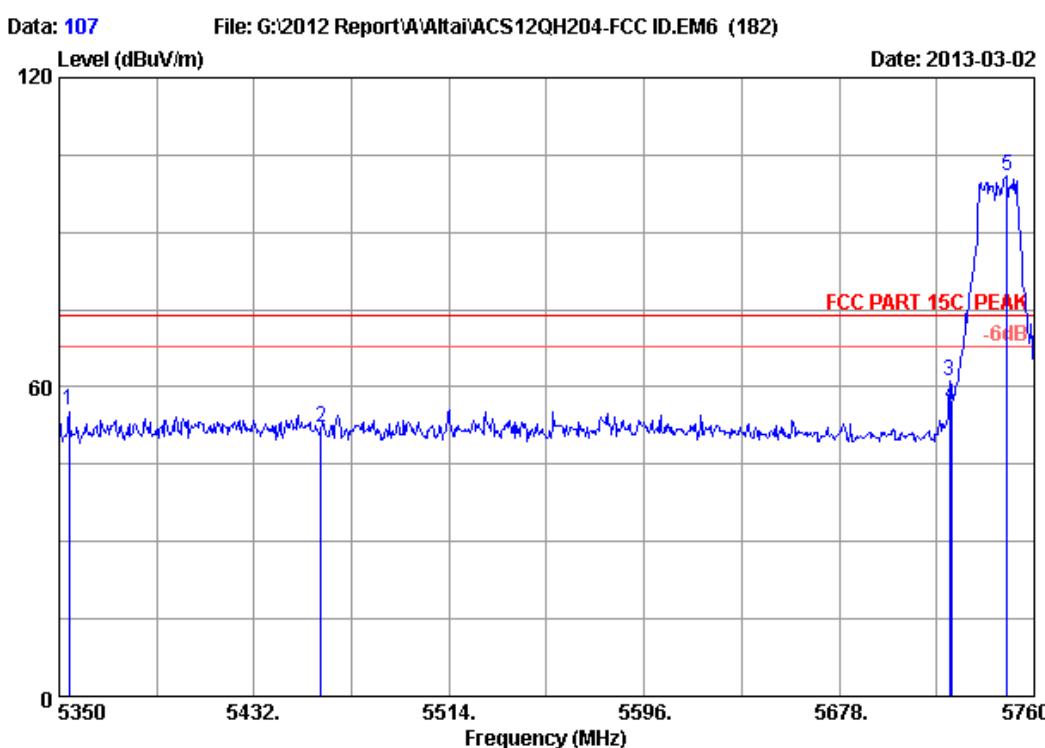


Site no. : 3m Chamber Data no. : 100
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH 7 2452MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 2444.975	28.28	5.86	35.70	94.31	92.75	74.00	-18.75	Peak	
2 2483.500	28.36	5.92	35.70	44.70	43.28	74.00	30.72	Peak	
3 2500.000	28.40	5.94	35.70	48.20	46.84	74.00	27.16	Peak	
<hr/>									

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.

5.8G:

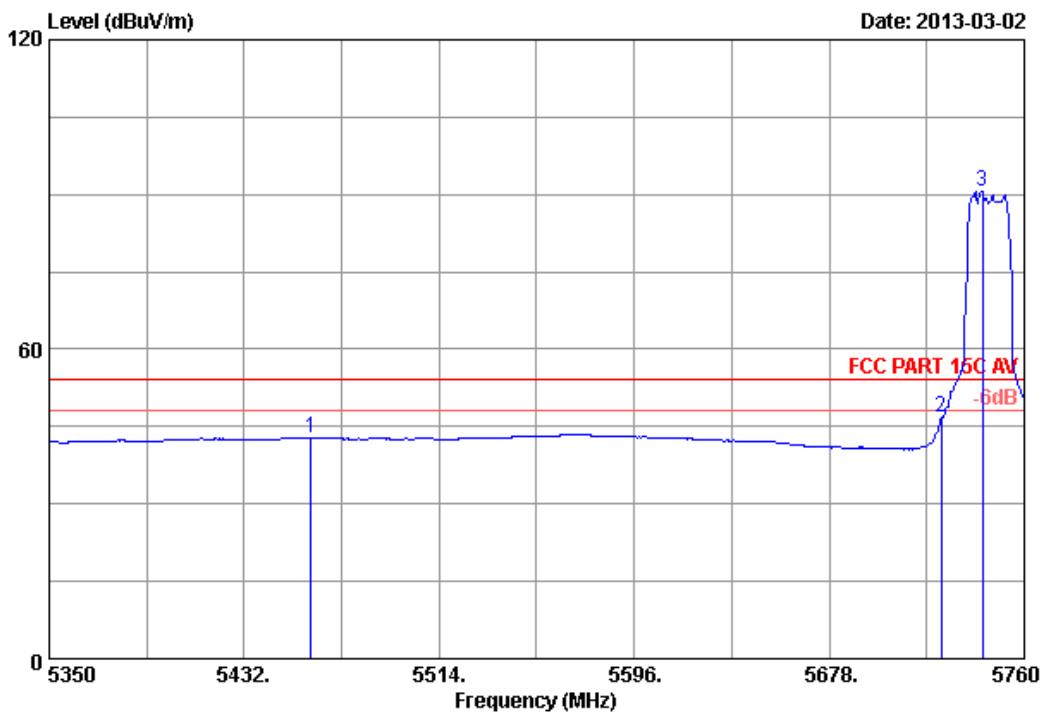
Site no. : 3m Chamber Data no. : 107
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11a CH 149 5745MHz Tx
 WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 5354.100	33.77	9.14	35.70	48.25	55.46	74.00	18.54	Peak	
2 5460.000	33.94	9.25	35.70	44.61	52.10	74.00	21.90	Peak	
3 5724.330	34.09	9.52	35.70	53.20	61.11	74.00	12.89	Peak	
4 5725.000	34.09	9.52	35.70	48.43	56.34	74.00	17.66	Peak	
5 5748.520	34.10	9.55	35.70	92.99	100.94	74.00	-26.94	Peak	
<hr/>									

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: 108 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)



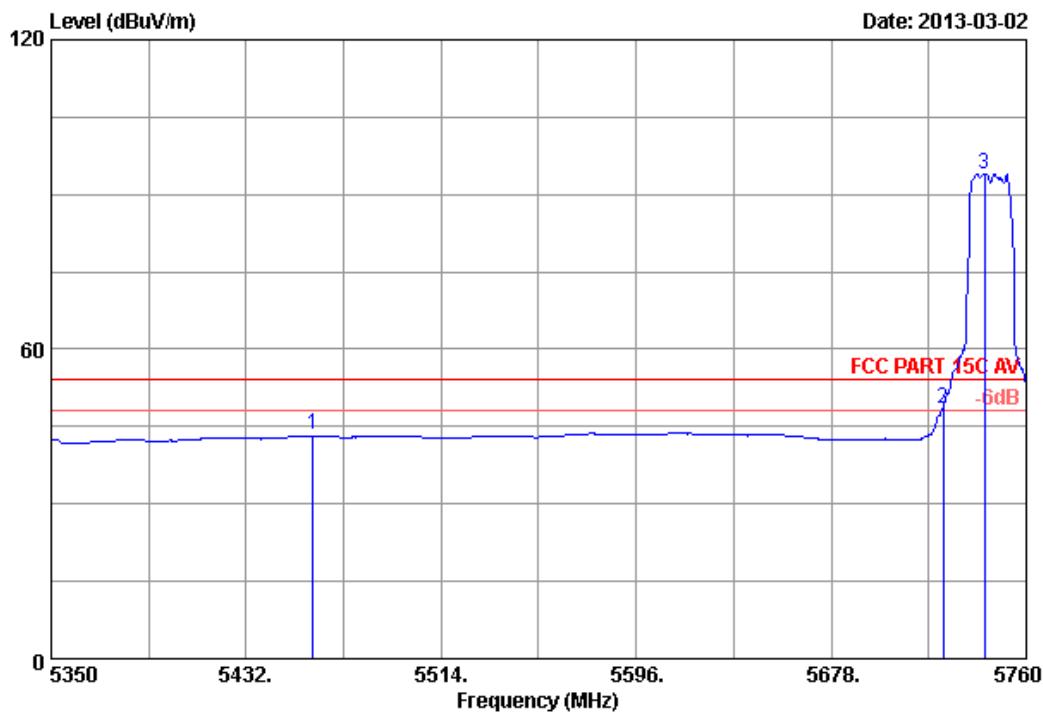
Site no. : 3m Chamber Data no. : 108
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11a CH 149 5745MHz Tx
 WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 5460.000	33.94	9.25	35.70	35.41	42.90	54.00	11.10	Average	
2 5725.000	34.09	9.52	35.70	38.83	46.74	54.00	7.26	Average	
3 5742.370	34.10	9.54	35.70	82.71	90.65	54.00	-36.65	Average	
<hr/>									

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: 109 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)



Site no. : 3m Chamber Data no. : 109
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11a CH 149 5745MHz Tx
 WA8011N-HE

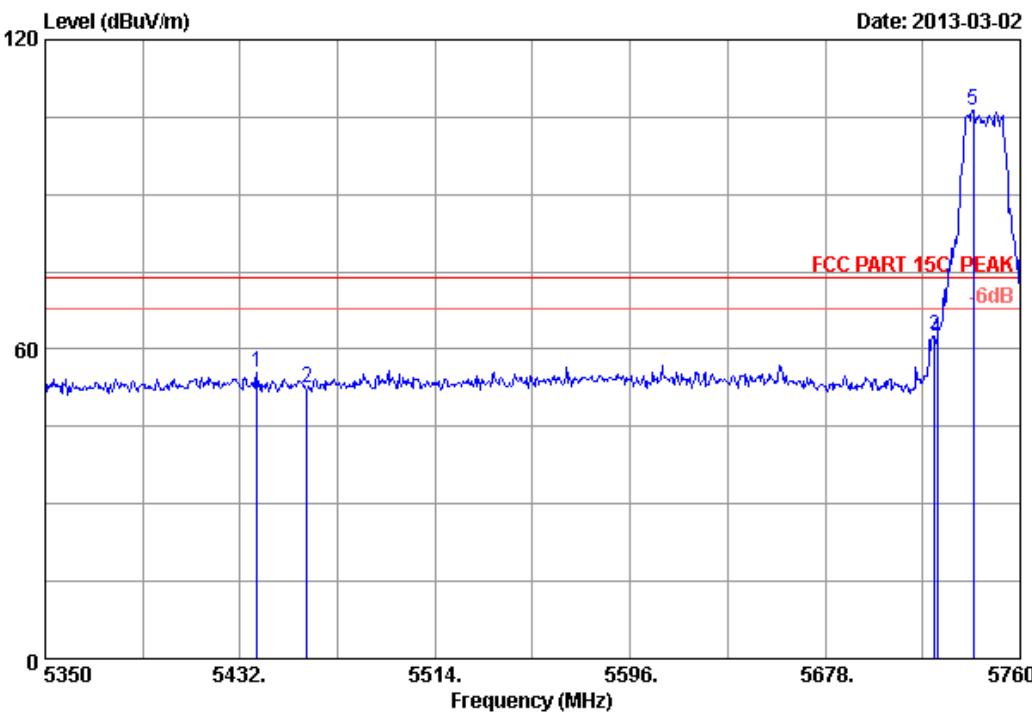
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	33.94	9.25	35.70	35.82	43.31	54.00	10.69 Average
2	5725.000	34.09	9.52	35.70	40.49	48.40	54.00	5.60 Average
3	5742.370	34.10	9.54	35.70	86.09	94.03	54.00	-40.03 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.

Data: 110 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 110
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11a CH 149 5745MHz Tx
 WA8011N-HE

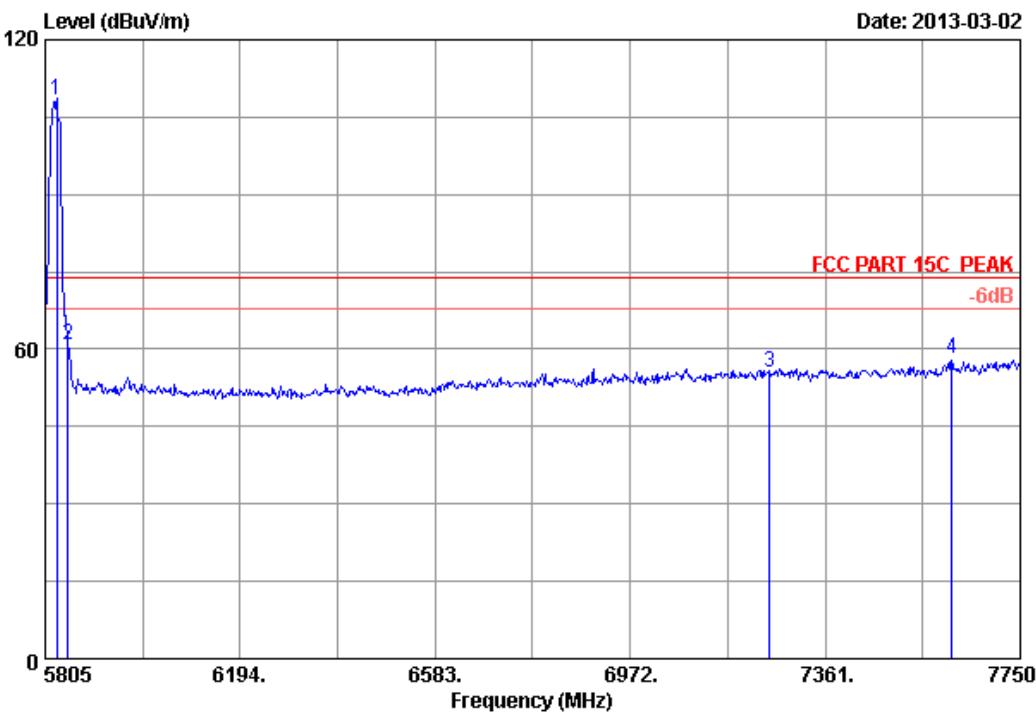
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 5438.970	33.90	9.22	35.70	48.12	55.54	74.00	18.46	Peak	
2 5460.000	33.94	9.25	35.70	44.97	52.46	74.00	21.54	Peak	
3 5723.920	34.09	9.52	35.70	54.67	62.58	74.00	11.42	Peak	
4 5725.000	34.09	9.52	35.70	54.19	62.10	74.00	11.90	Peak	
5 5740.320	34.10	9.54	35.70	98.28	106.22	74.00	-32.22	Peak	
<hr/>									

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: 123 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 123
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11a CH 165 5825MHz Tx
 WA8011N-HE

	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	5828.340	34.13	9.63	35.70	100.38	108.44	74.00	-34.44 Peak
2	5850.000	34.14	9.66	35.70	52.68	60.78	74.00	13.22 Peak
3	7250.000	36.05	10.99	35.45	43.97	55.56	74.00	18.44 Peak
4	7613.850	36.71	11.18	35.38	45.52	58.03	74.00	15.97 Peak

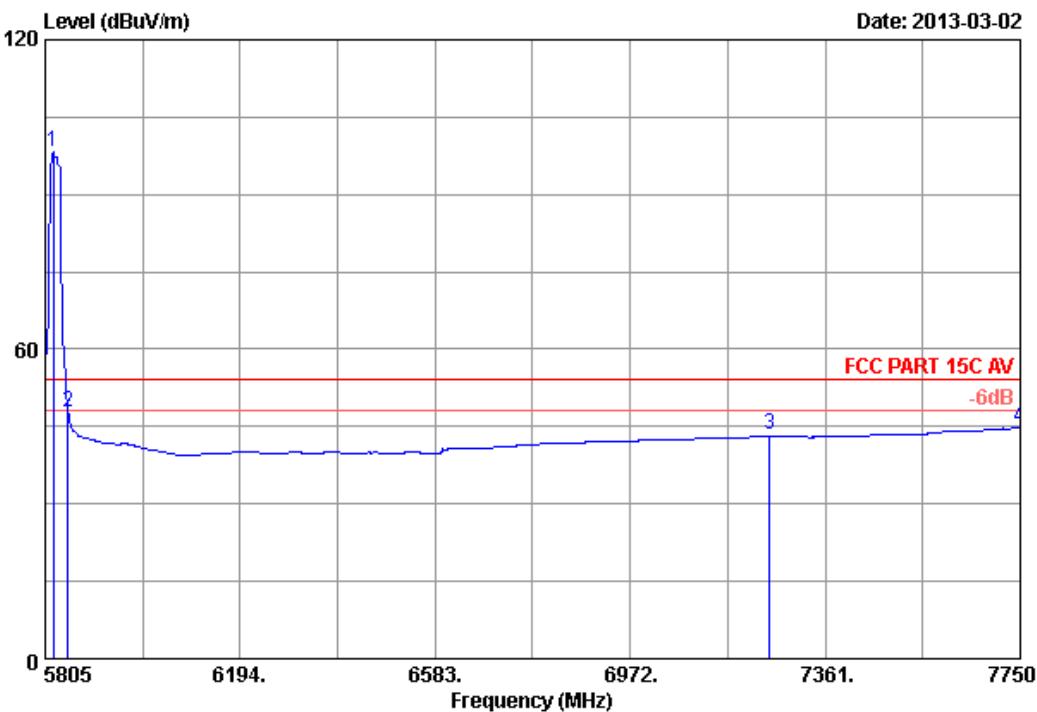
Remarks:

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: 124

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 124
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11a CH 165 5825MHz Tx
 WA8011N-HE

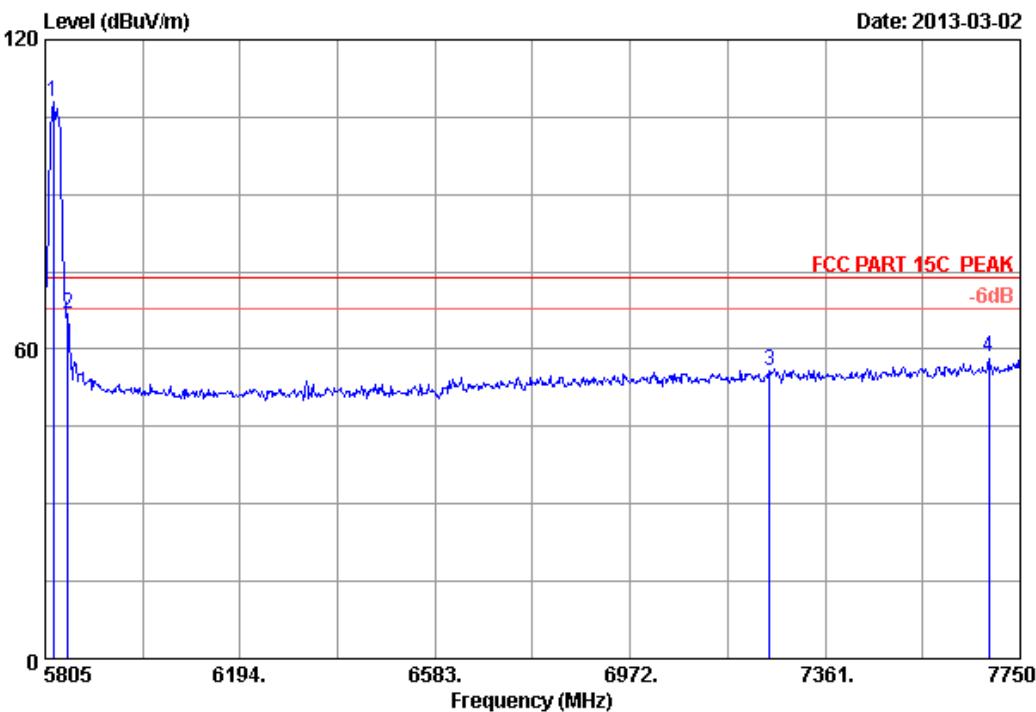
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	5820.560	34.13	9.62	35.70	90.18	98.23	54.00	-44.23 Average
2	5850.000	34.14	9.66	35.70	39.86	47.96	54.00	6.04 Average
3	7250.135	36.05	10.99	35.45	31.74	43.33	54.00	10.67 Average
4	7750.000	36.85	11.25	35.35	32.03	44.78	54.00	9.22 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.

Data: 125 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 125
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11a CH 165 5825MHz Tx
 WA8011N-HE

	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	5820.560	34.13	9.62	35.70	99.85	107.90	74.00	-33.90 Peak
2	5850.000	34.14	9.66	35.70	58.59	66.69	74.00	7.31 Peak
3	7250.000	36.05	10.99	35.45	44.38	55.97	74.00	18.03 Peak
4	7687.760	36.79	11.22	35.36	45.72	58.37	74.00	15.63 Peak

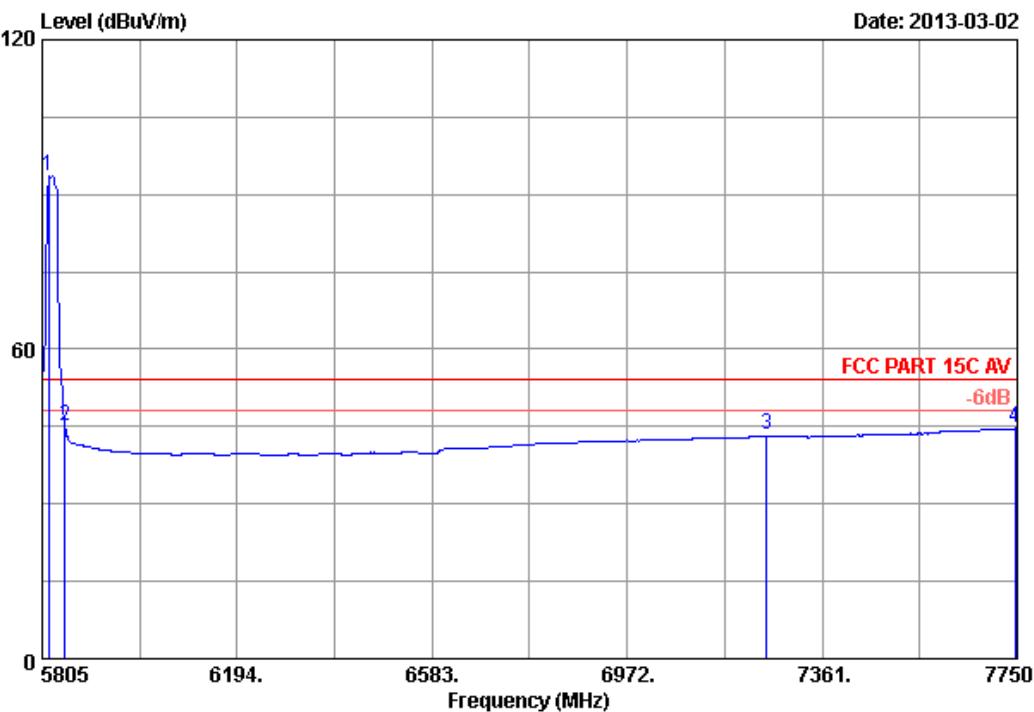
Remarks:

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: 126

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 126
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11a CH 165 5825MHz Tx
 WA8011N-HE

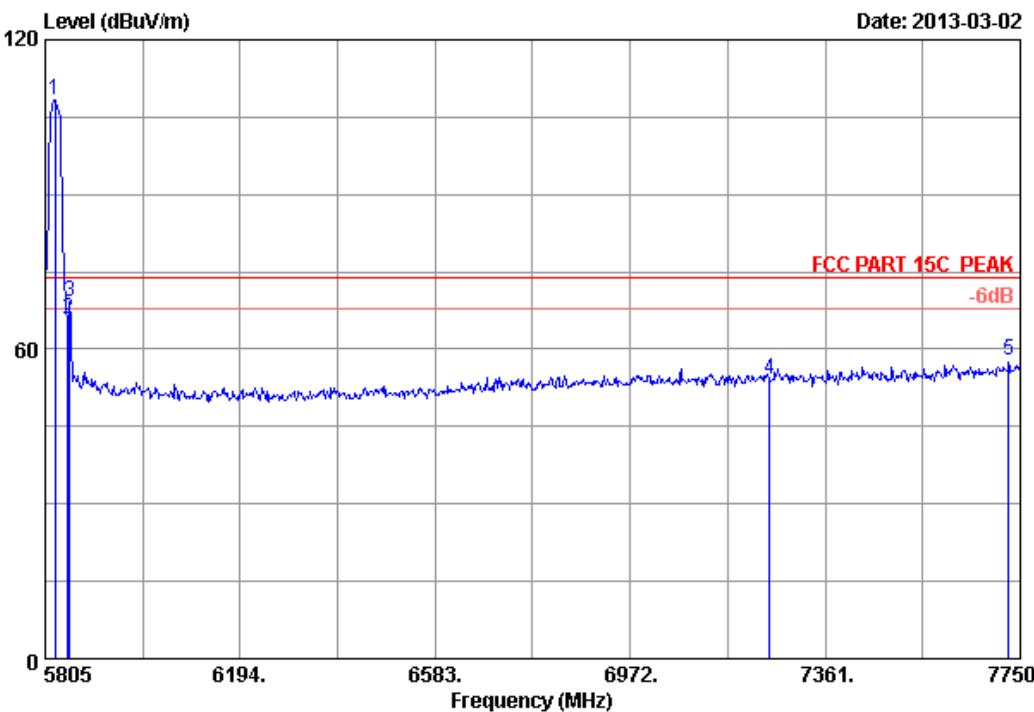
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	5818.615	34.13	9.62	35.70	85.59	93.64	54.00	-39.64 Average
2	5850.000	34.14	9.66	35.70	36.93	45.03	54.00	8.97 Average
3	7250.000	36.05	10.99	35.45	31.74	43.33	54.00	10.67 Average
4	7746.110	36.85	11.25	35.35	32.00	44.75	54.00	9.25 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.

Data: 137 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 137
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH 165 5825MHz Tx
 WA8011N-HE

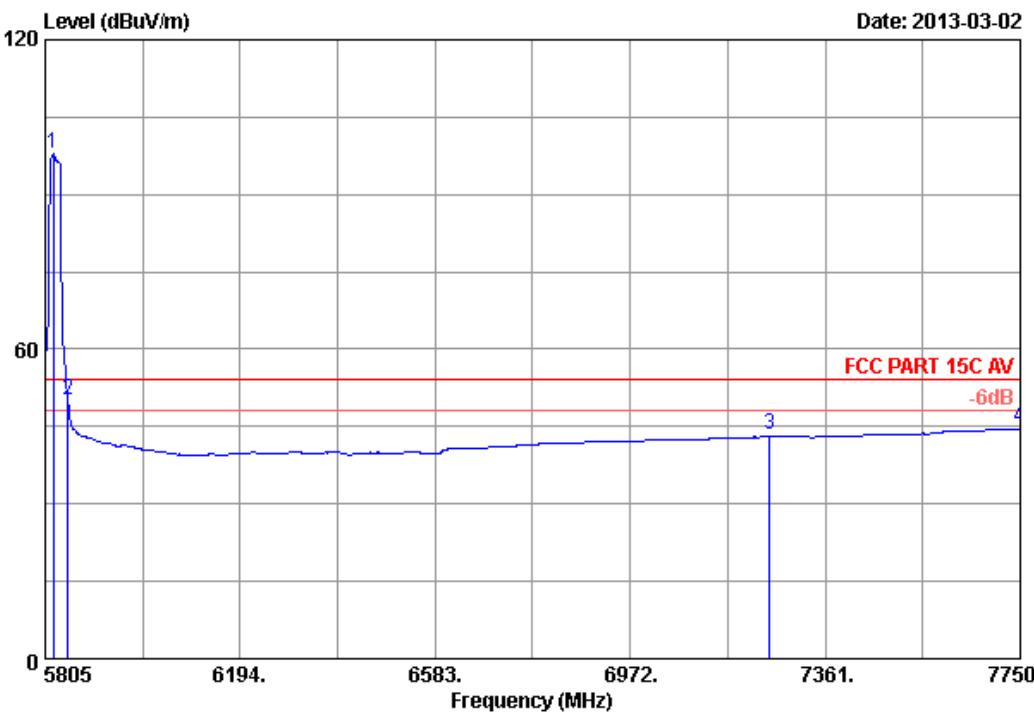
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	5824.450	34.13	9.63	35.70	100.33	108.39	74.00	-34.39 Peak
2	5849.735	34.14	9.66	35.70	57.84	65.94	74.00	8.06 Peak
3	5853.625	34.14	9.66	35.70	61.19	69.29	74.00	4.71 Peak
4	7250.000	36.05	10.99	35.45	42.61	54.20	74.00	19.80 Peak
5	7726.660	36.83	11.24	35.35	45.00	57.72	74.00	16.28 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.

Data: 138 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 138
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH 165 5825MHz Tx
WA8011N-HE

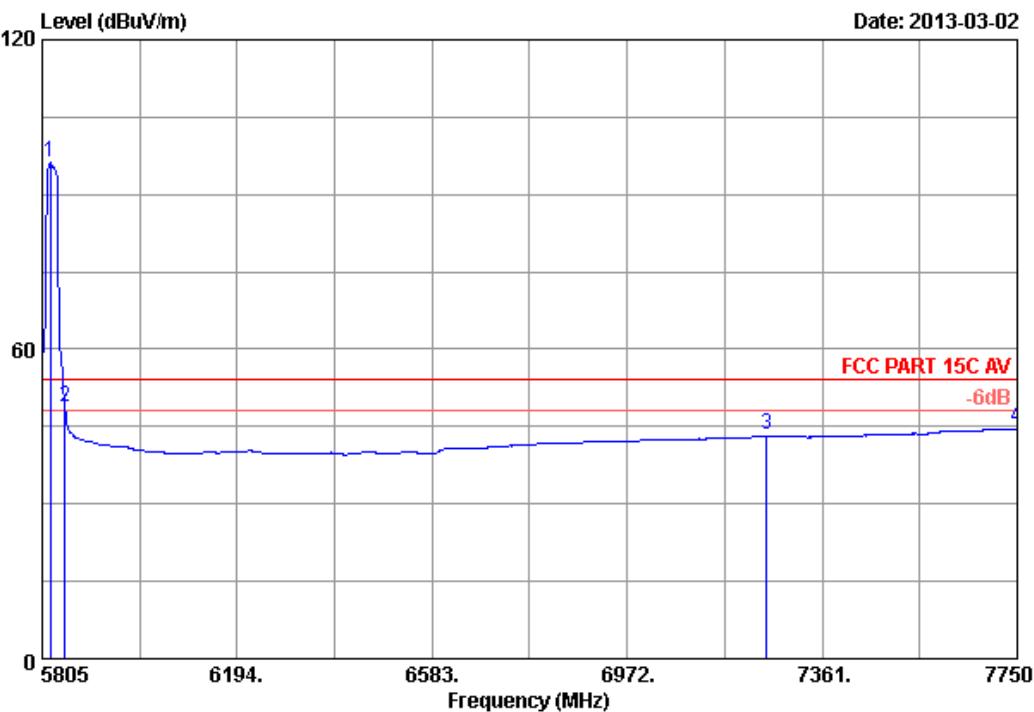
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 5820.560	34.13	9.62	35.70	89.89	97.94	54.00	-43.94	Average	
2 5850.000	34.14	9.66	35.70	42.01	50.11	54.00	3.89	Average	
3 7250.000	36.05	10.99	35.45	31.70	43.29	54.00	10.71	Average	
4 7750.000	36.85	11.25	35.35	31.92	44.67	54.00	9.33	Average	
<hr/>									

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: 139 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 139
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH 165 5825MHz Tx
 WA8011N-HE

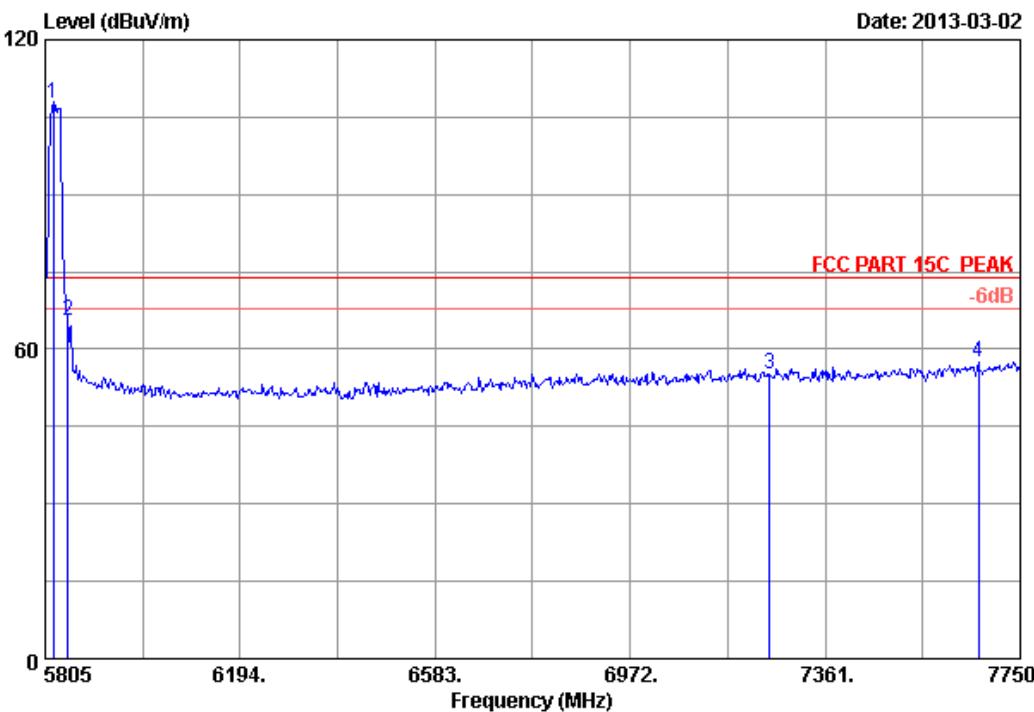
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 5820.560	34.13	9.62	35.70	88.08	96.13	54.00	-42.13	Average	
2 5850.000	34.14	9.66	35.70	40.58	48.68	54.00	5.32	Average	
3 7250.000	36.05	10.99	35.45	31.71	43.30	54.00	10.70	Average	
4 7750.000	36.85	11.25	35.35	31.93	44.68	54.00	9.32	Average	
<hr/>									

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: 140 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 140
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11nHT20 CH 165 5825MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 5820.560	34.13	9.62	35.70	99.74	107.79	74.00	-33.79	Peak	
2 5850.000	34.14	9.66	35.70	57.34	65.44	74.00	8.56	Peak	
3 7250.000	36.05	10.99	35.45	43.56	55.15	74.00	18.85	Peak	
4 7666.365	36.77	11.21	35.37	44.84	57.45	74.00	16.55	Peak	
<hr/>									

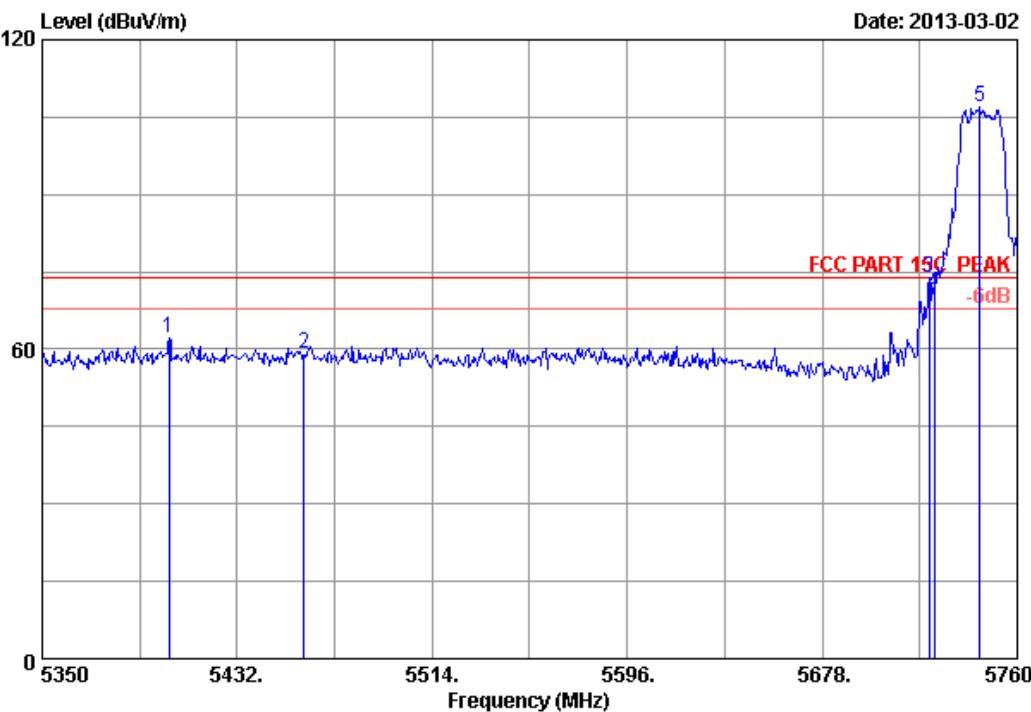
Remarks:

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: 153

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 153
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH 149 5745MHz Tx
 WA8011N-HE

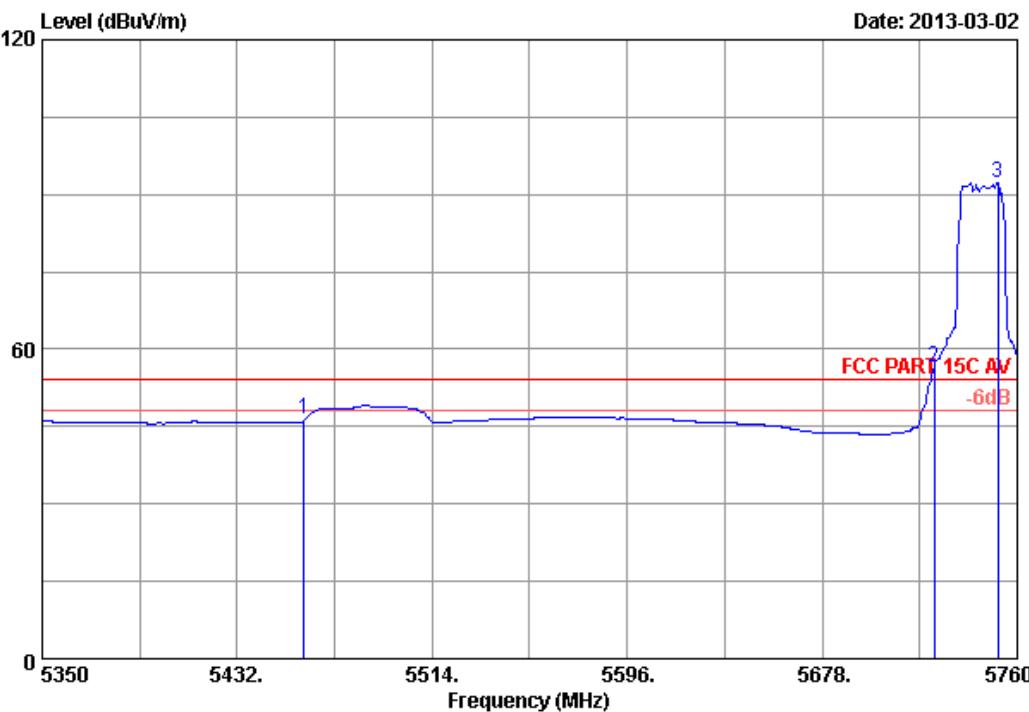
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 5403.300	33.85	9.19	35.70	54.93	62.27	74.00	11.73	Peak	
2 5460.000	33.94	9.25	35.70	51.62	59.11	74.00	14.89	Peak	
3 5723.100	34.09	9.52	35.70	66.11	74.02	74.00	-0.02	Peak	
4 5725.000	34.09	9.52	35.70	62.94	70.85	74.00	3.15	Peak	
5 5744.420	34.10	9.54	35.70	98.99	106.93	74.00	-32.93	Peak	
<hr/>									

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: 154 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 154
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH 149 5745MHz Tx
 WA8011N-HE

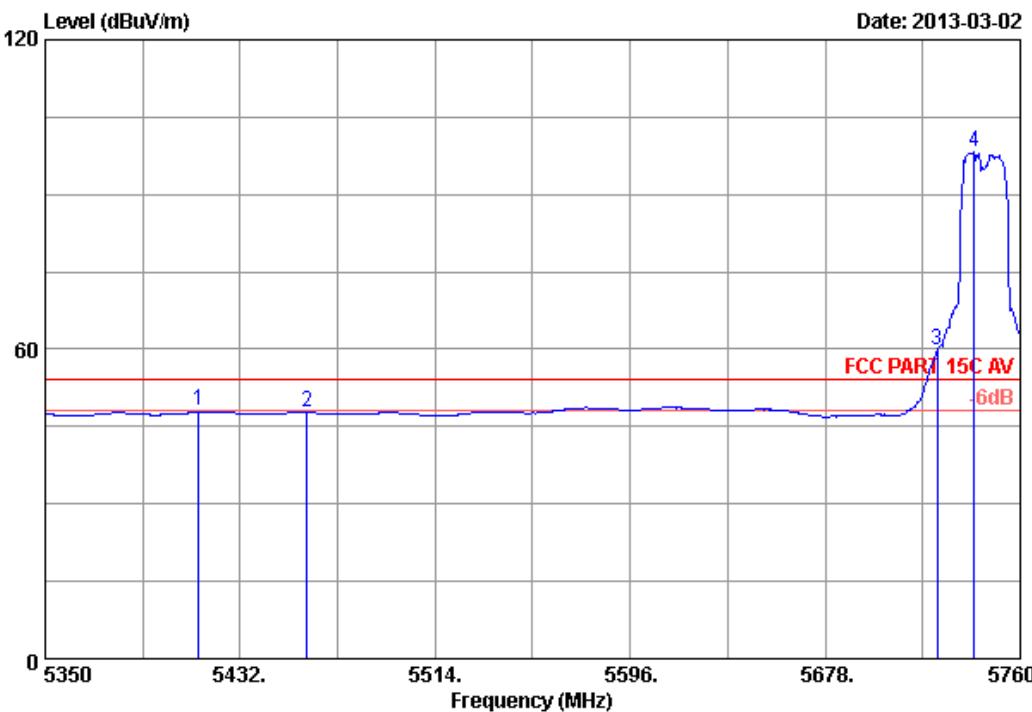
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	33.94	9.25	35.70	38.83	46.32	54.00	7.68 Average
2	5725.000	34.09	9.52	35.70	48.46	56.37	54.00	-2.37 Average
3	5751.800	34.10	9.55	35.70	84.40	92.35	54.00	-38.35 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.

Data: 155 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 155
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH 149 5745MHz Tx
 WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 5414.370	33.86	9.20	35.70	40.73	48.09	54.00	5.91	Average	
2 5460.000	33.94	9.25	35.70	40.40	47.89	54.00	6.11	Average	
3 5725.000	34.09	9.52	35.70	52.06	59.97	54.00	-5.97	Average	
4 5740.730	34.10	9.54	35.70	90.33	98.27	54.00	-44.27	Average	
<hr/>									

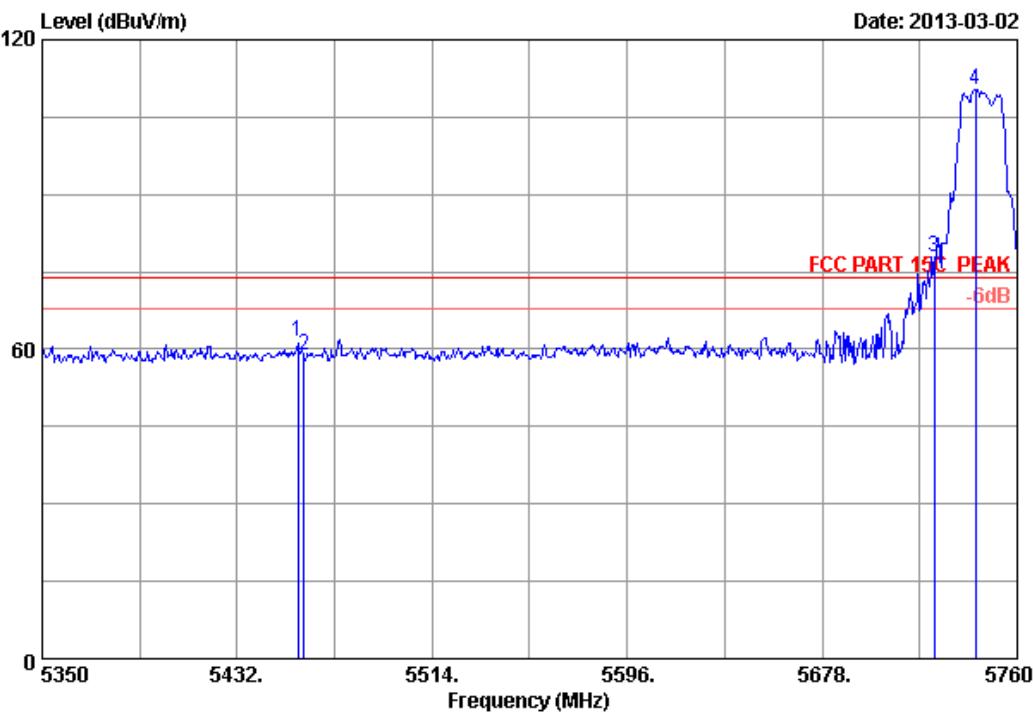
Remarks:

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: 156

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 156
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH 149 5745MHz Tx
 WA8011N-HE

	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	5457.420	33.93	9.24	35.70	53.88	61.35	74.00	12.65 Peak
2	5460.000	33.94	9.25	35.70	51.32	58.81	74.00	15.19 Peak
3	5725.000	34.09	9.52	35.70	69.99	77.90	74.00	-3.90 Peak
4	5742.370	34.10	9.54	35.70	102.52	110.46	74.00	-36.46 Peak

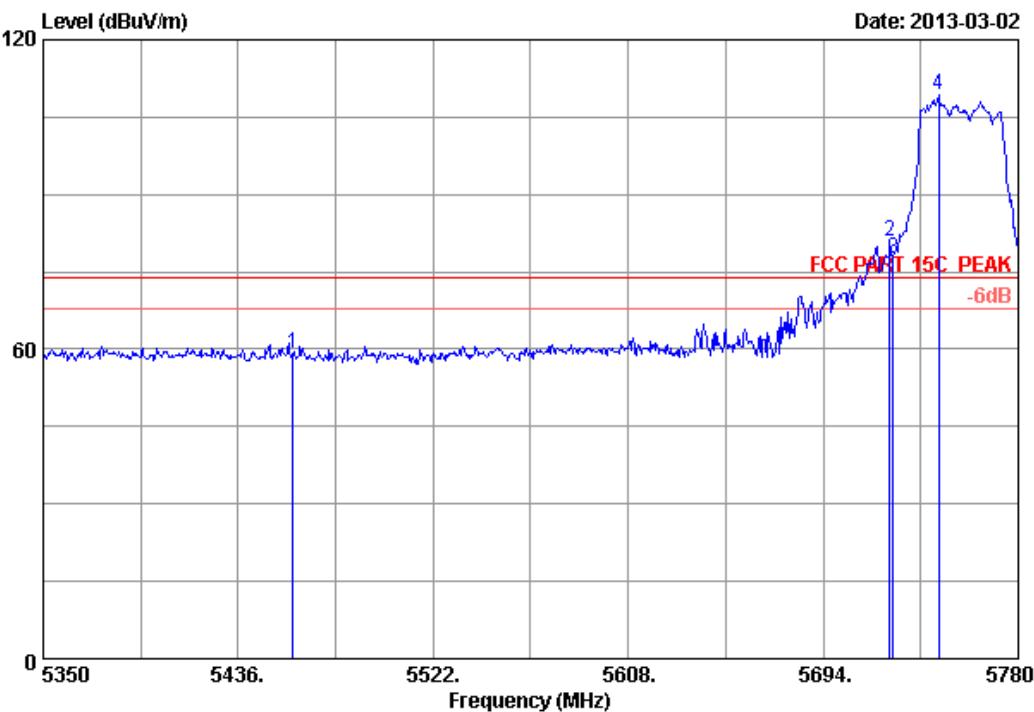
Remarks:

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: 157

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 157
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH 151 5755MHz Tx
 WA8011N-HE

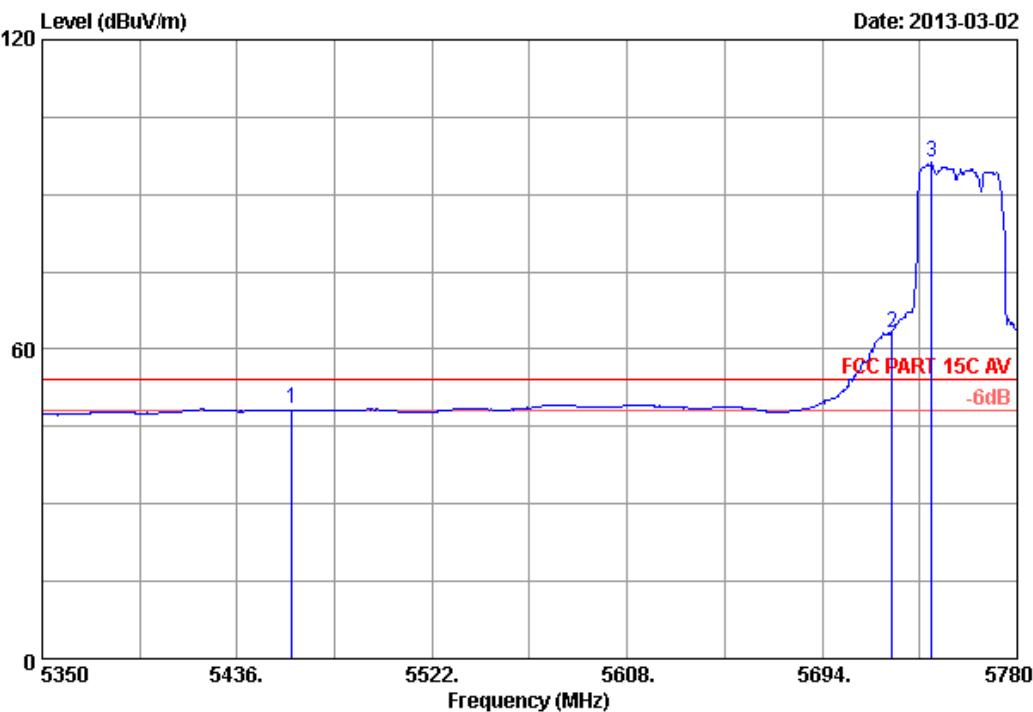
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	33.94	9.25	35.70	51.57	59.06	74.00	14.94 Peak
2	5723.240	34.09	9.52	35.70	72.88	80.79	74.00	-6.79 Peak
3	5725.000	34.09	9.52	35.70	69.66	77.57	74.00	-3.57 Peak
4	5744.740	34.10	9.55	35.70	101.28	109.23	74.00	-35.23 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: 158 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 158
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH 151 5755MHz Tx
 WA8011N-HE

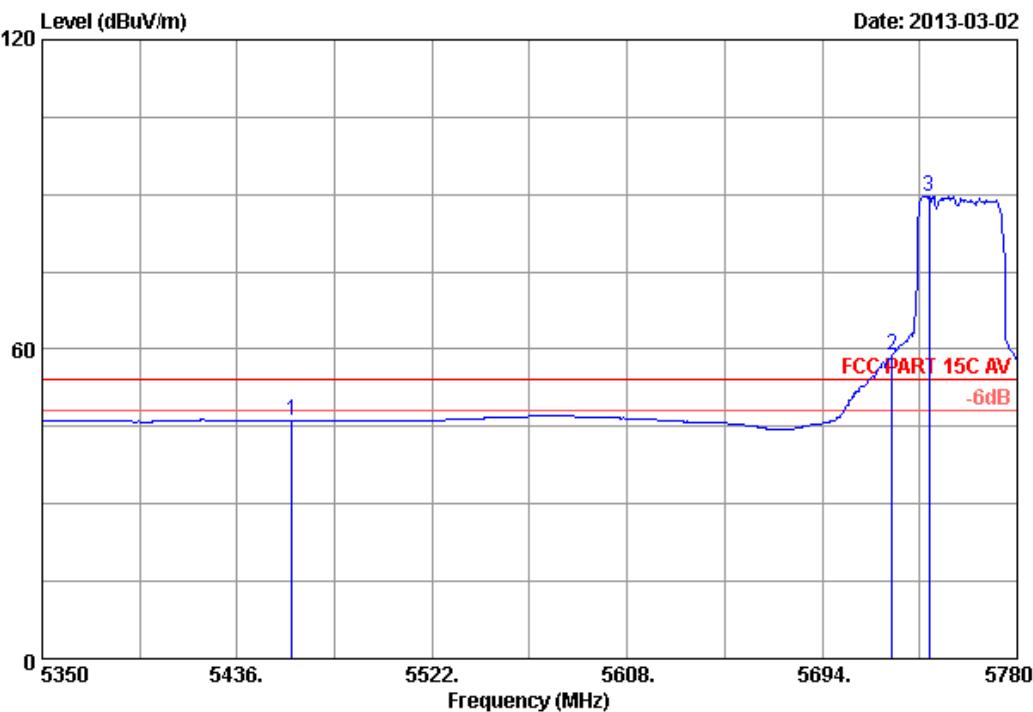
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 5460.000	33.94	9.25	35.70	40.91	48.40	54.00	5.60	Average	
2 5725.000	34.09	9.52	35.70	55.35	63.26	54.00	-9.26	Average	
3 5742.160	34.10	9.54	35.70	88.45	96.39	54.00	-42.39	Average	
<hr/>									

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: 159 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 159
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH 151 5755MHz Tx
 WA8011N-HE

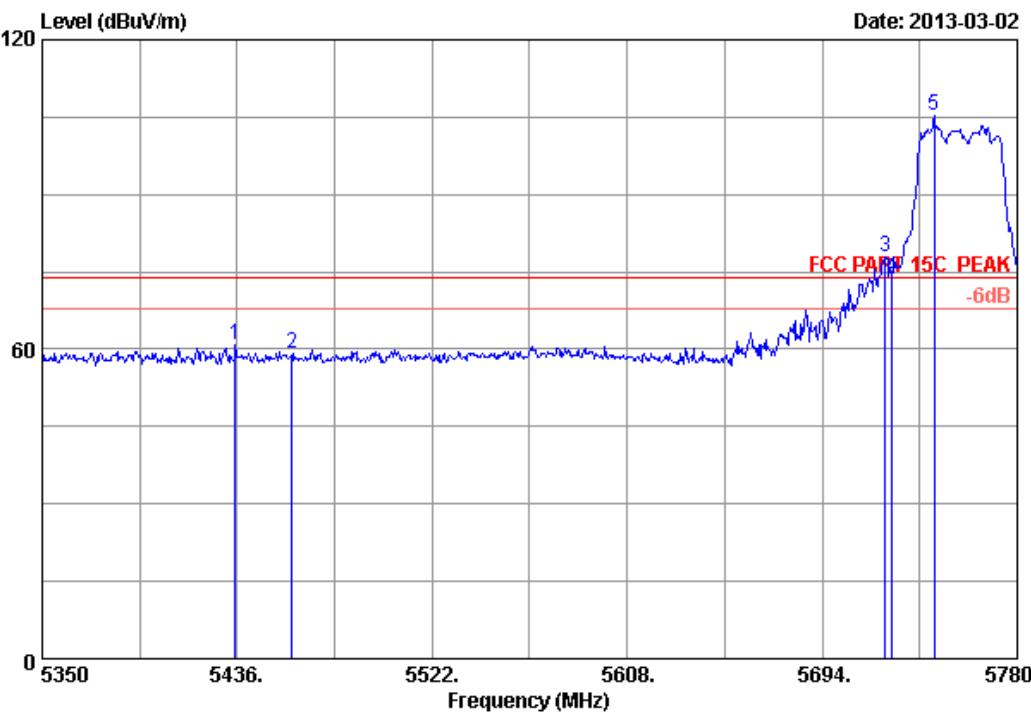
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	5460.000	33.94	9.25	35.70	38.73	46.22	54.00	7.78 Average
2	5725.000	34.09	9.52	35.70	50.95	58.86	54.00	-4.86 Average
3	5741.300	34.10	9.54	35.70	81.80	89.74	54.00	-35.74 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.

Data: 160 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 160
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH 151 5755MHz Tx
 WA8011N-HE

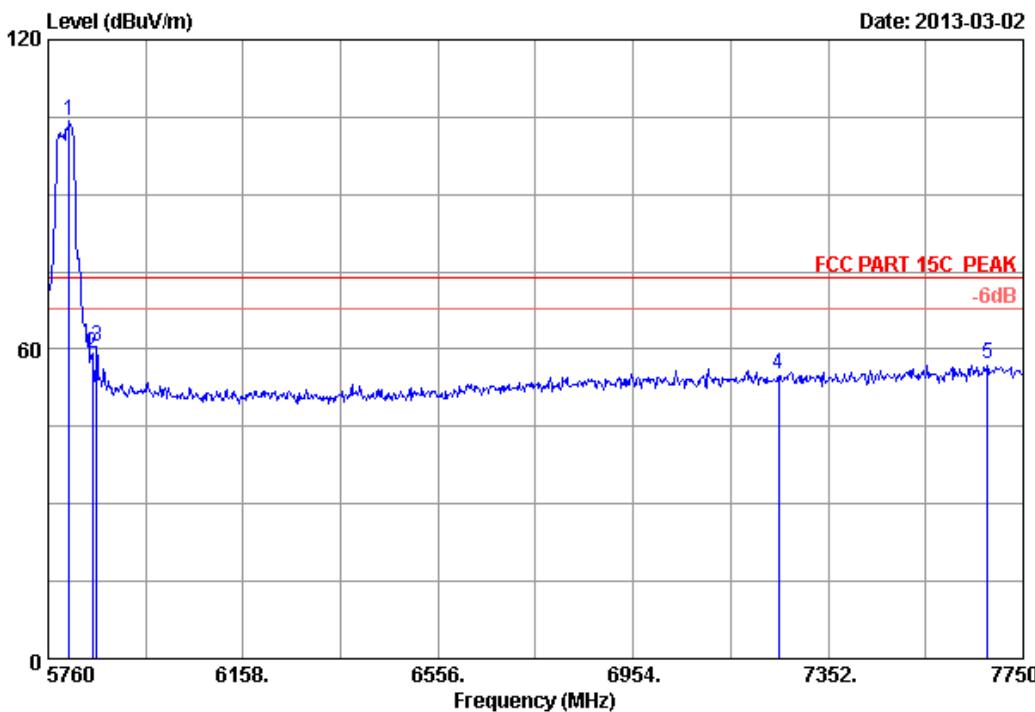
	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	5435.140	33.90	9.22	35.70	53.49	60.91	74.00	13.09 Peak
2	5460.000	33.94	9.25	35.70	51.64	59.13	74.00	14.87 Peak
3	5721.950	34.09	9.52	35.70	70.06	77.97	74.00	-3.97 Peak
4	5725.000	34.09	9.52	35.70	66.09	74.00	74.00	0.00 Peak
5	5743.450	34.10	9.54	35.70	97.37	105.31	74.00	-31.31 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: 179 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 179
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH 159 5795MHz Tx
 WA8011N-HE

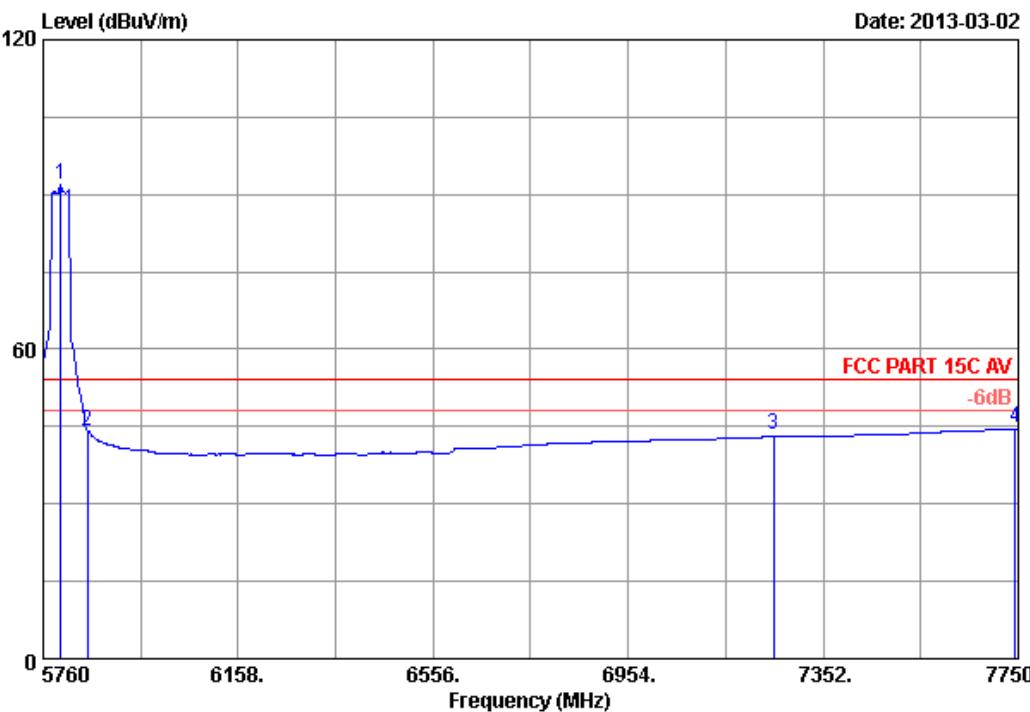
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 5803.780	34.12	9.61	35.70	96.27	104.30	74.00	-30.30	Peak	
2 5849.550	34.14	9.65	35.70	51.01	59.10	74.00	14.90	Peak	
3 5859.500	34.14	9.67	35.70	52.34	60.45	74.00	13.55	Peak	
4 7250.000	36.05	10.99	35.45	43.43	55.02	74.00	18.98	Peak	
5 7676.370	36.78	11.21	35.36	44.38	57.01	74.00	16.99	Peak	
<hr/>									

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: 180 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 180
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH 159 5795MHz Tx
 WA8011N-HE

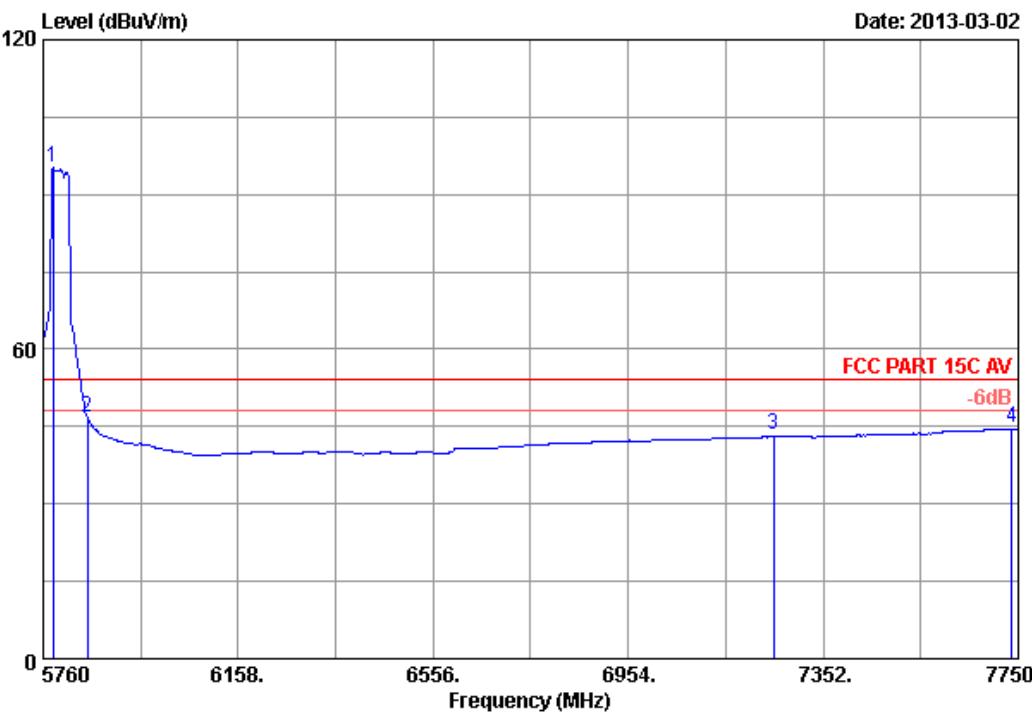
Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 5795.820	34.12	9.60	35.70	83.88	91.90	54.00	-37.90	Average	
2 5850.000	34.14	9.66	35.70	36.12	44.22	54.00	9.78	Average	
3 7250.000	36.05	10.99	35.45	31.70	43.29	54.00	10.71	Average	
4 7744.030	36.84	11.25	35.35	31.94	44.68	54.00	9.32	Average	
<hr/>									

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: 181 File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 181
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23°C/54% Engineer : Leo-Li
EUT : A8in Super WiFi Base Station
Power supply : DC 56V From Adapter Input AC 120V/60Hz
Test mode : IEEE802.11nHT40 CH 159 5795MHz Tx
WA8011N-HE

Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission					
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
<hr/>									
1 5779.900	34.11	9.58	35.70	87.34	95.33	54.00	-41.33	Average	
2 5850.000	34.14	9.66	35.70	38.69	46.79	54.00	7.21	Average	
3 7250.000	36.05	10.99	35.45	31.70	43.29	54.00	10.71	Average	
4 7736.070	36.84	11.25	35.35	31.95	44.69	54.00	9.31	Average	
<hr/>									

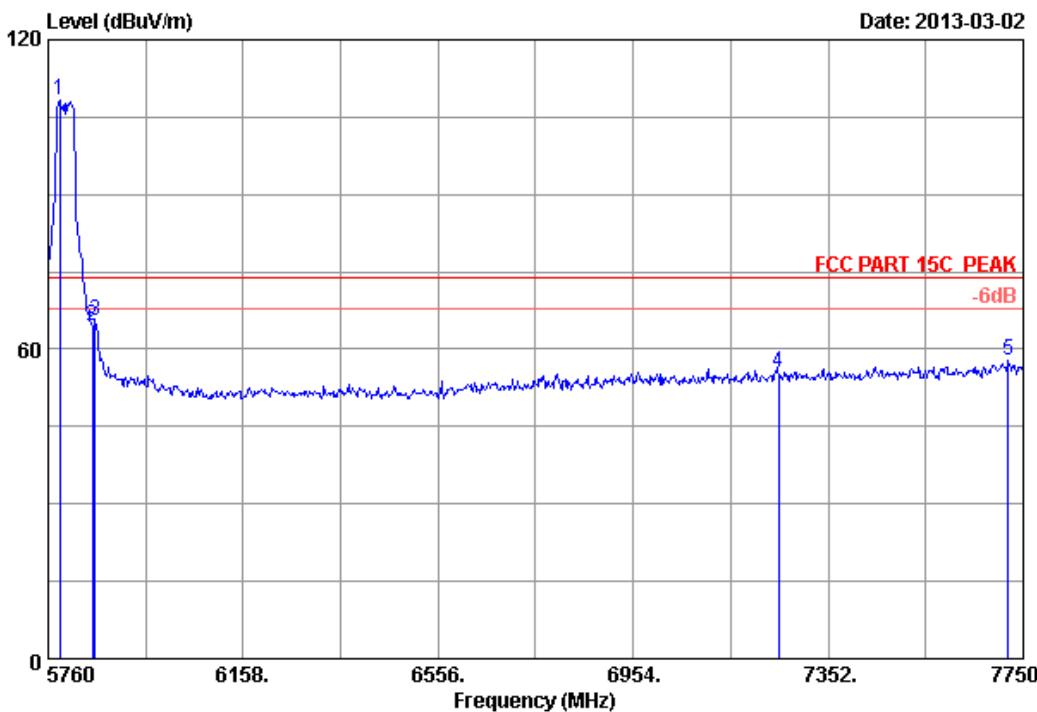
Remarks:

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: 182

File: G:\2012 Report\A\Altai\ACS12QH204-FCC ID.EM6 (182)

Date: 2013-03-02



Site no. : 3m Chamber Data no. : 182
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : A8in Super WiFi Base Station
 Power supply : DC 56V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH 159 5795MHz Tx
 WA8011N-HE

	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	5783.880	34.11	9.59	35.70	100.40	108.40	74.00	-34.40 Peak
2	5850.000	34.14	9.66	35.70	56.50	64.60	74.00	9.40 Peak
3	5855.520	34.14	9.66	35.70	57.44	65.54	74.00	8.46 Peak
4	7250.000	36.05	10.99	35.45	43.97	55.56	74.00	18.44 Peak
5	7720.150	36.82	11.24	35.36	45.12	57.82	74.00	16.18 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.

7. 6dB Bandwidth Test

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,14	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr. 28,14	1 Year

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 300kHz RBW and 1MHz 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

2.4G:

EUT:A8in Super WiFi Base Station		
M/N:WA8011N-HE		
Test date: 2014-08-02	Pressure: 101.2±1.0 kpa	Humidity: 50.7±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.5±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	CH	6dB bandwidth (MHz)		Limit (KHz)
		ANT 1	ANT 2	
11b	CH1	8.577	9.035	>500
	CH6	8.588	8.576	>500
	CH11	8.105	8.555	>500
11g	CH1	16.35	16.36	>500
	CH6	16.35	16.36	>500
	CH11	16.36	16.35	>500
11n HT20	CH1	17.60	17.62	>500
	CH6	17.61	17.62	>500
	CH11	17.62	17.61	>500
11n HT40	CH1	35.14	35.14	>500
	CH4	35.09	35.14	>500
	CH7	35.47	35.34	>500
Conclusion : PASS				

5.8G:

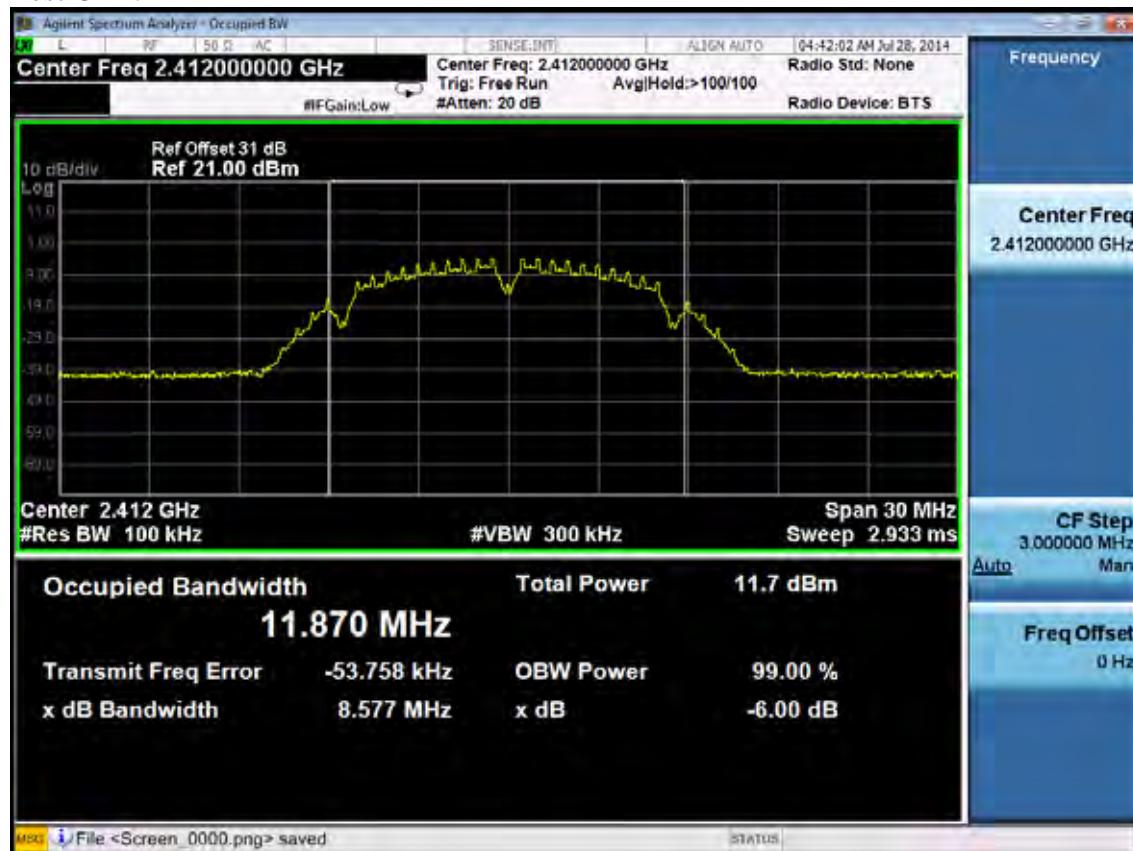
EUT:A8in Super WiFi Base Station		
M/N:WA8011N-HE		
Test date: 2014-08-02	Pressure: 101.1±1.0 kpa	Humidity: 50.2±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.7±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	CH	6dB bandwidth (MHz)		Limit (KHz)
		ANT 1	ANT 2	
11a	CH149	16.39	16.51	>500
	CH157	16.42	16.45	>500
	CH165	16.41	16.54	>500
11n HT20	CH149	17.63	17.65	>500
	CH157	17.64	17.68	>500
	CH165	17.65	17.61	>500
11n HT40	CH151	36.38	36.36	>500
	CH159	36.39	36.39	>500
Conclusion : PASS				

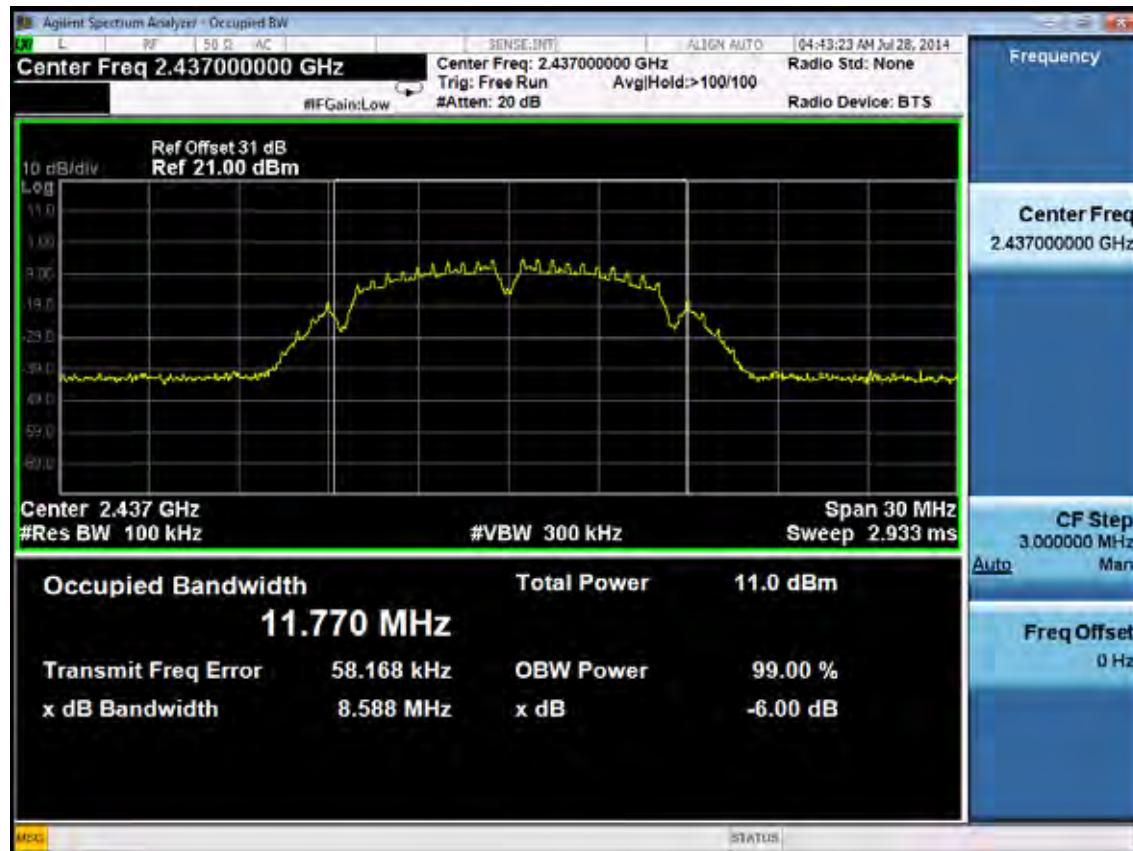
2.4G:
Chain 1:

Test Mode: IEEE 802.11b TX

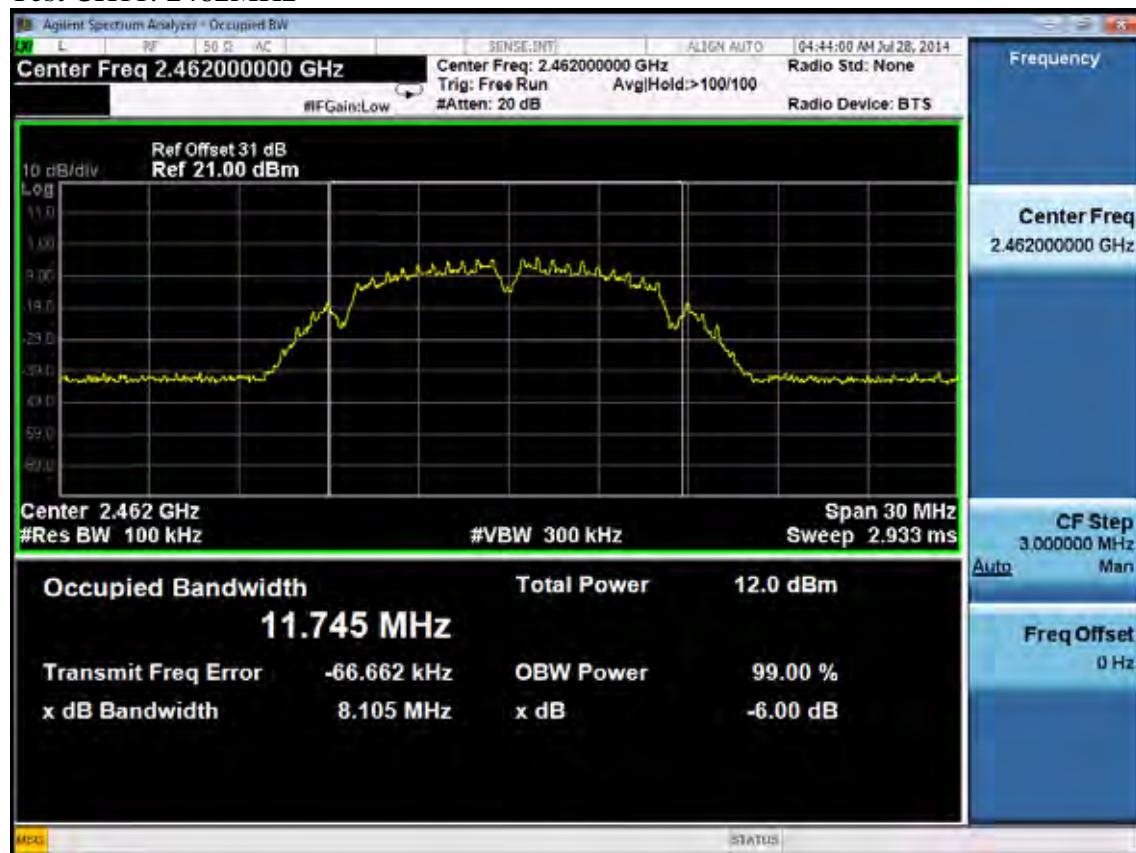
Test CH1: 2412MHz



Test CH6: 2437MHz

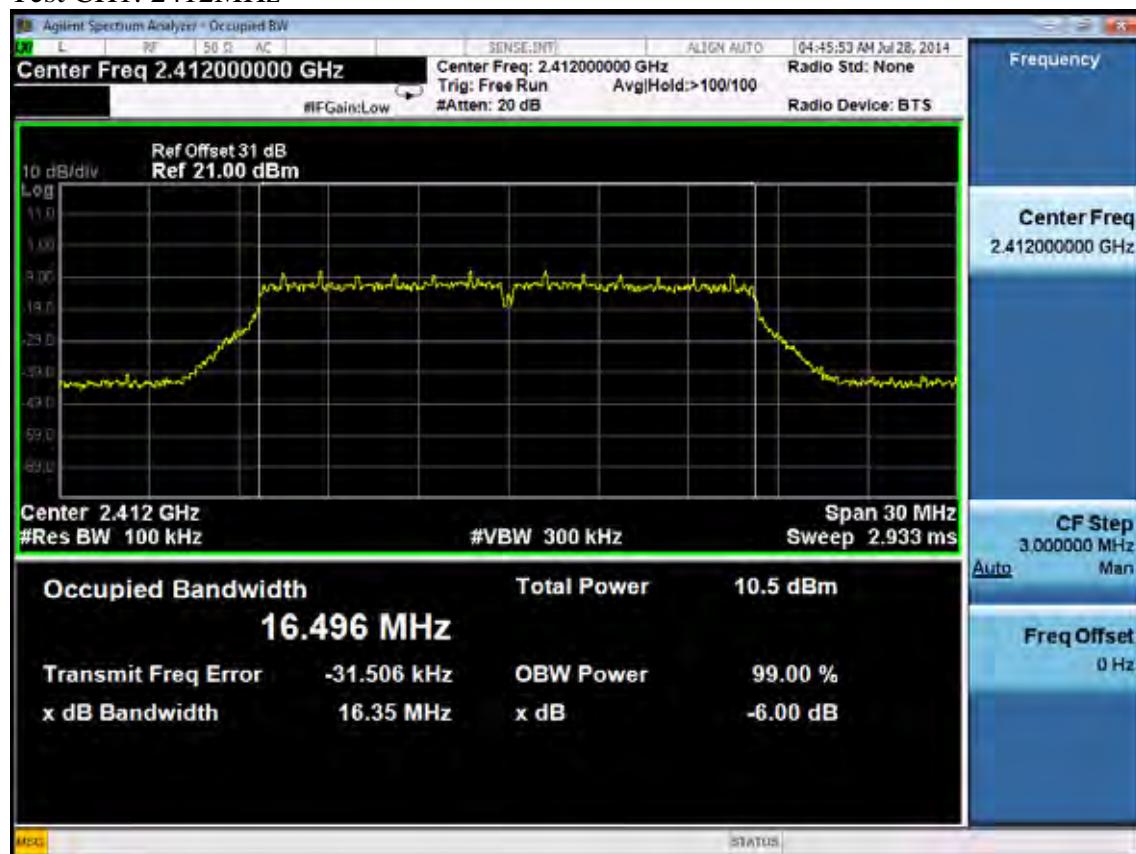


Test CH11: 2462MHz

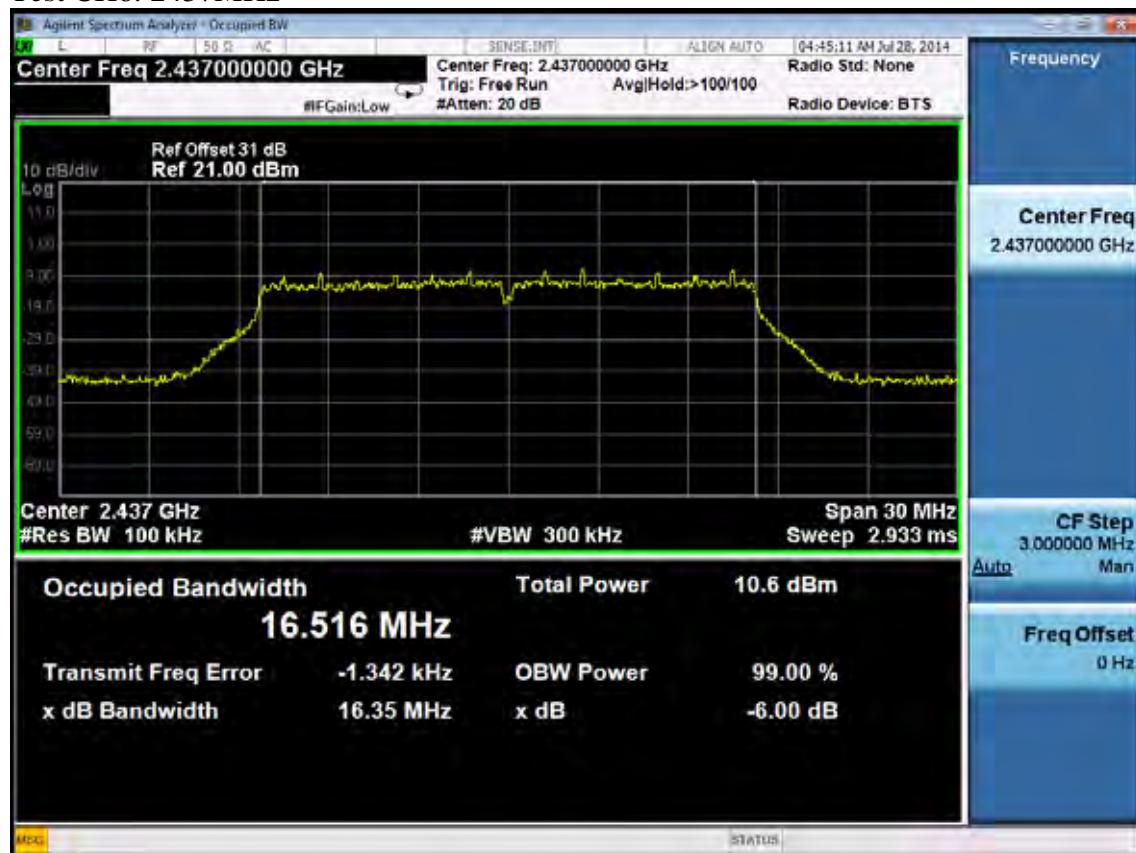


Test Mode: IEEE 802.11g TX

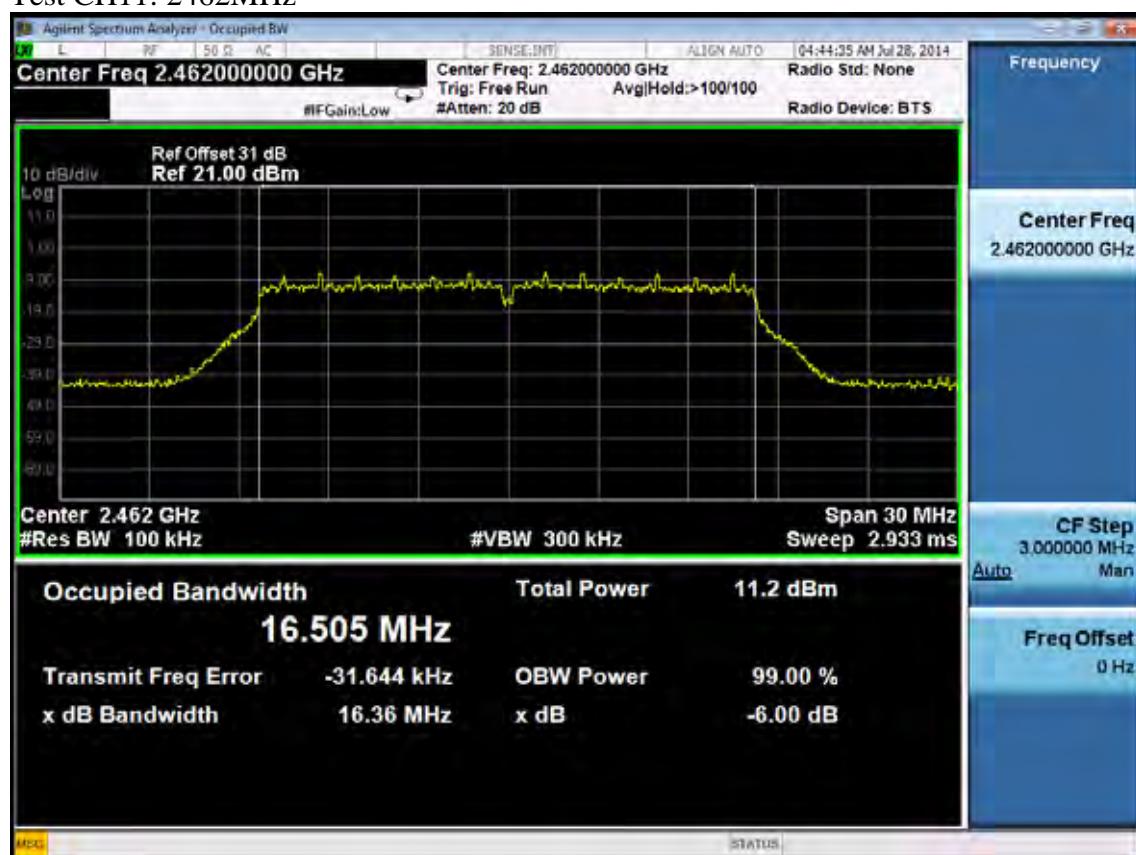
Test CH1: 2412MHz



Test CH6: 2437MHz

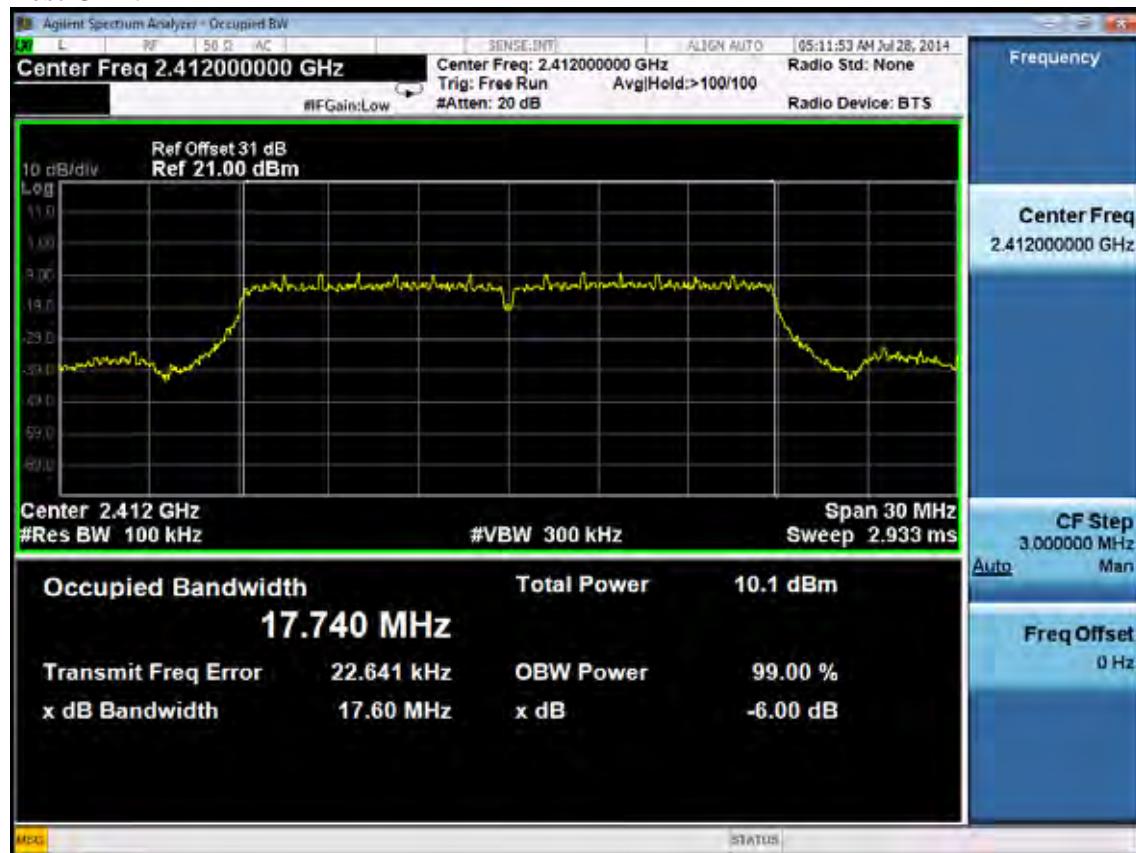


Test CH11: 2462MHz

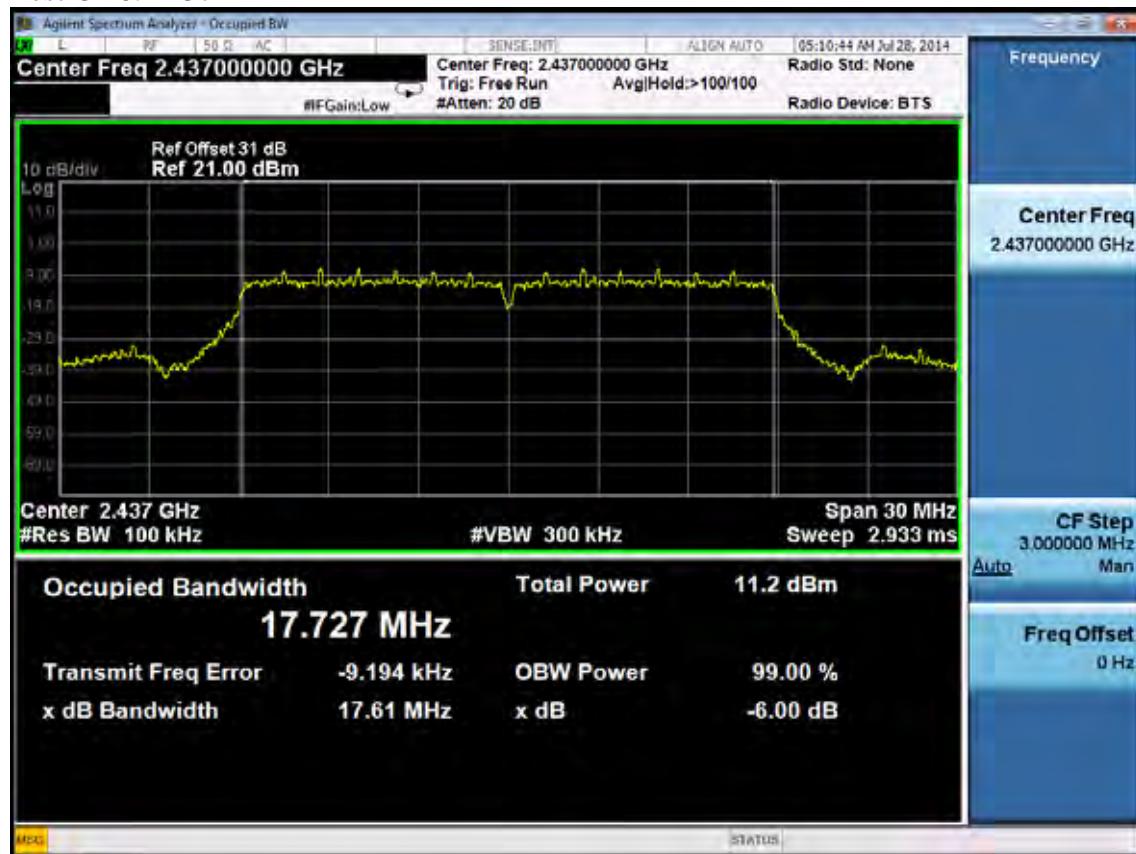


Test Mode: IEEE 802.11n HT20 TX

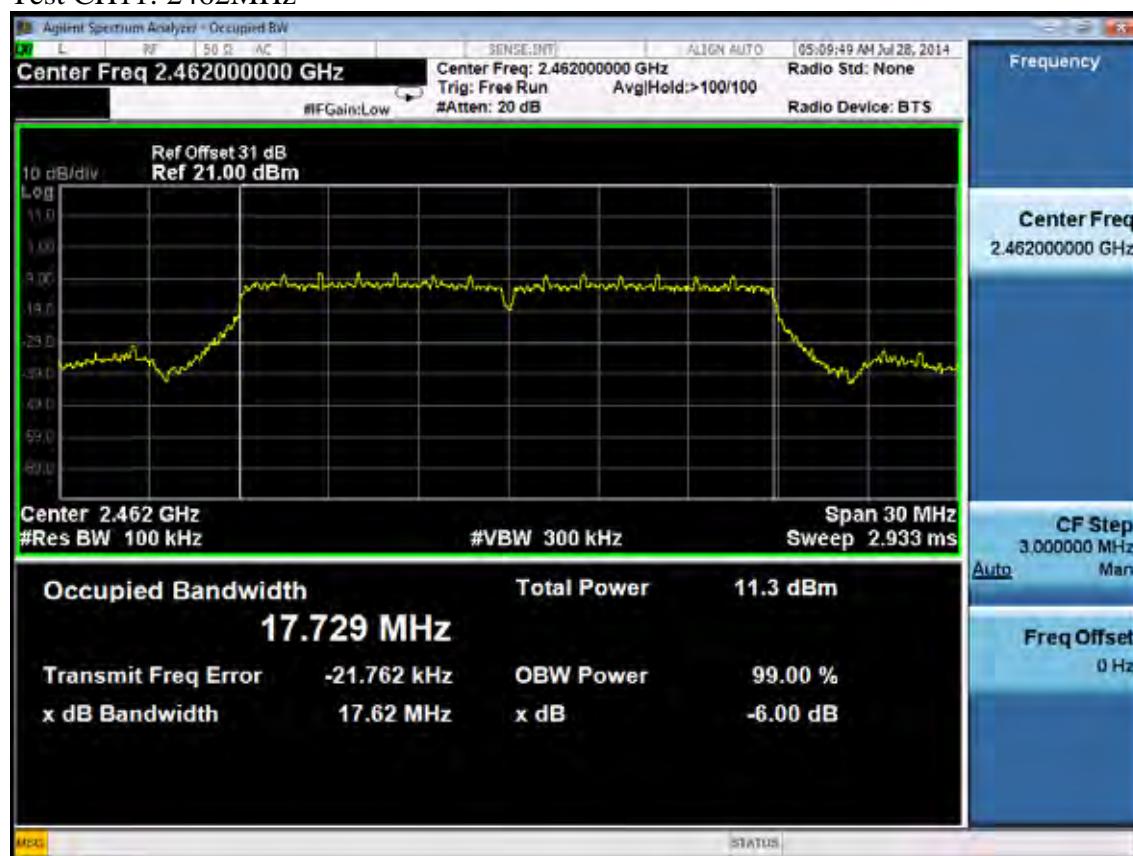
Test CH1: 2412MHz



Test CH6: 2437MHz

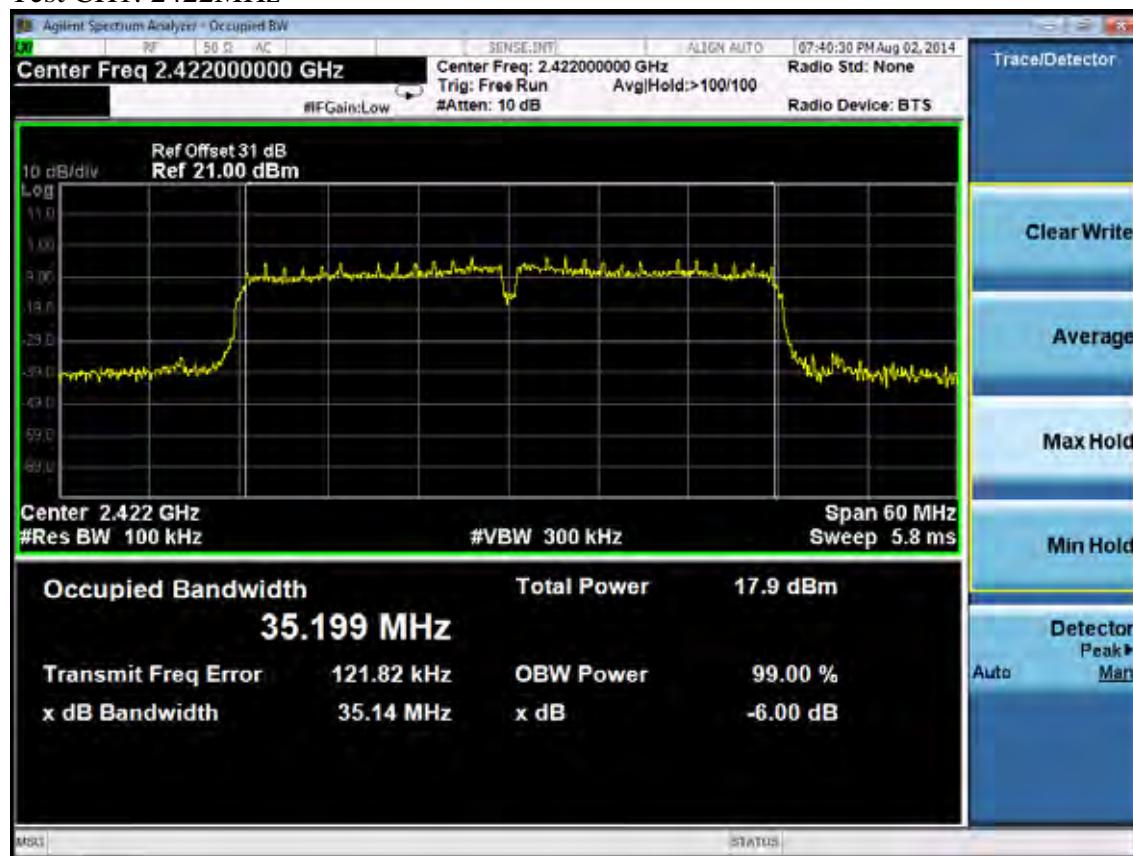


Test CH11: 2462MHz



Test Mode: IEEE 802.11n HT40 TX

Test CH1: 2422MHz



Test CH4: 2437MHz



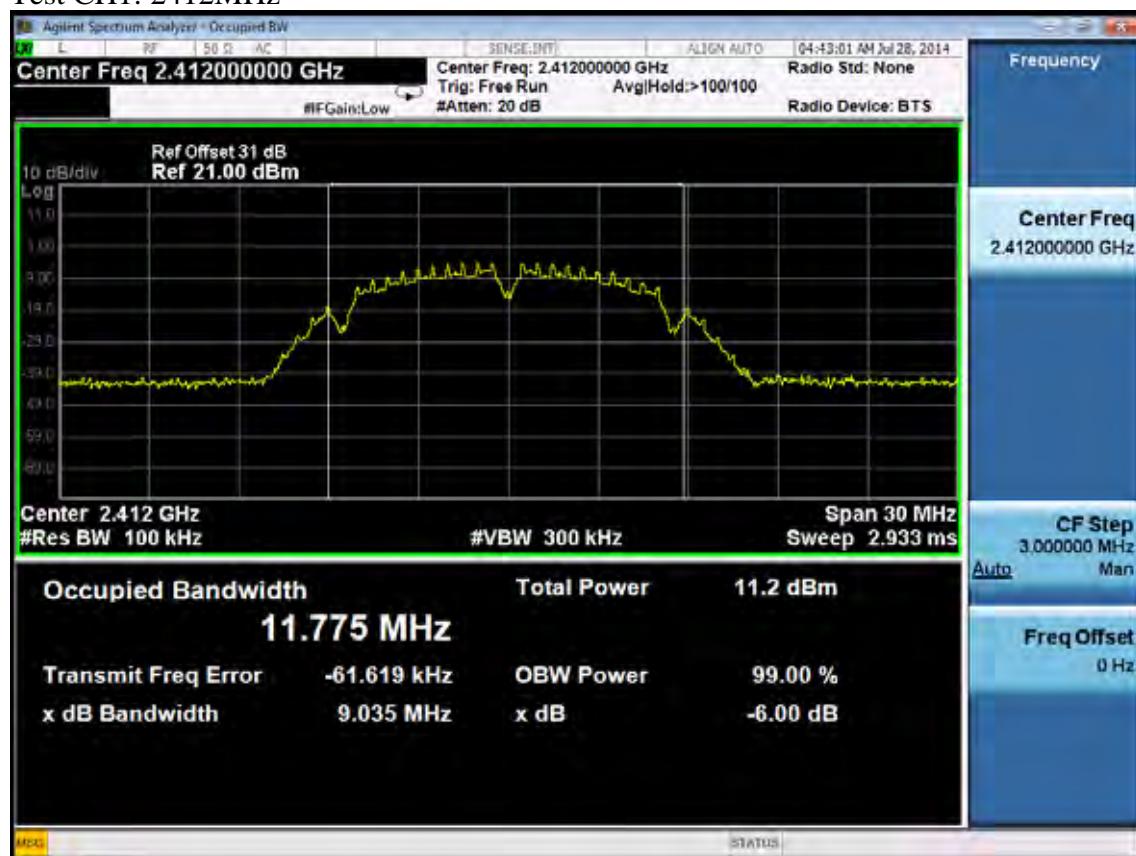
Test CH7: 2452MHz



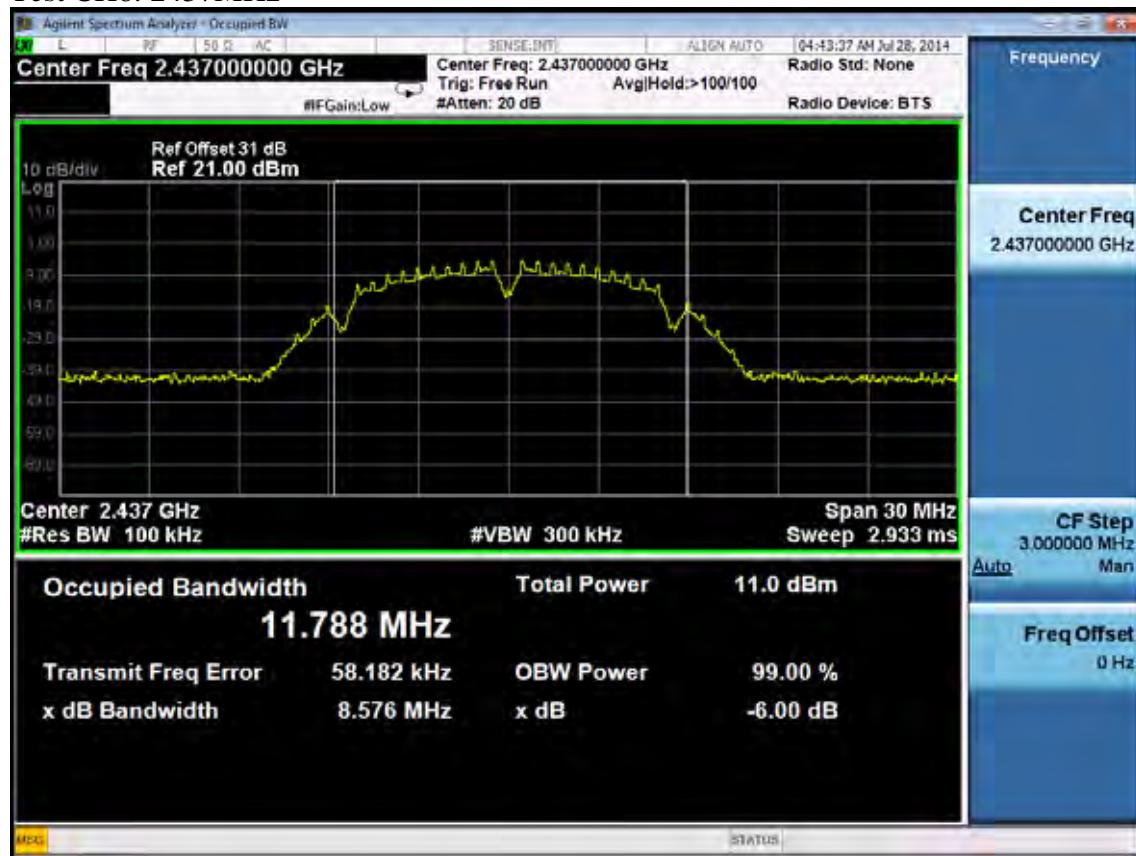
Chain 2:

Test Mode: IEEE 802.11b TX

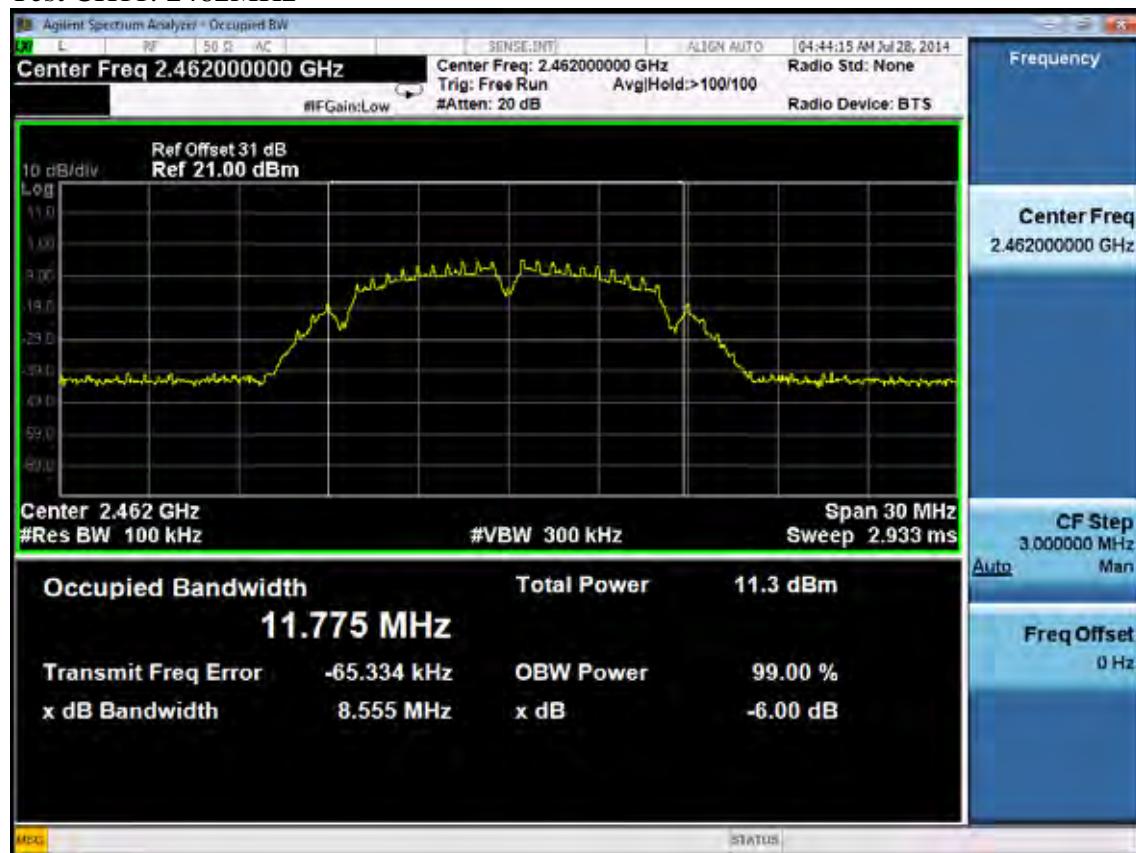
Test CH1: 2412MHz



Test CH6: 2437MHz

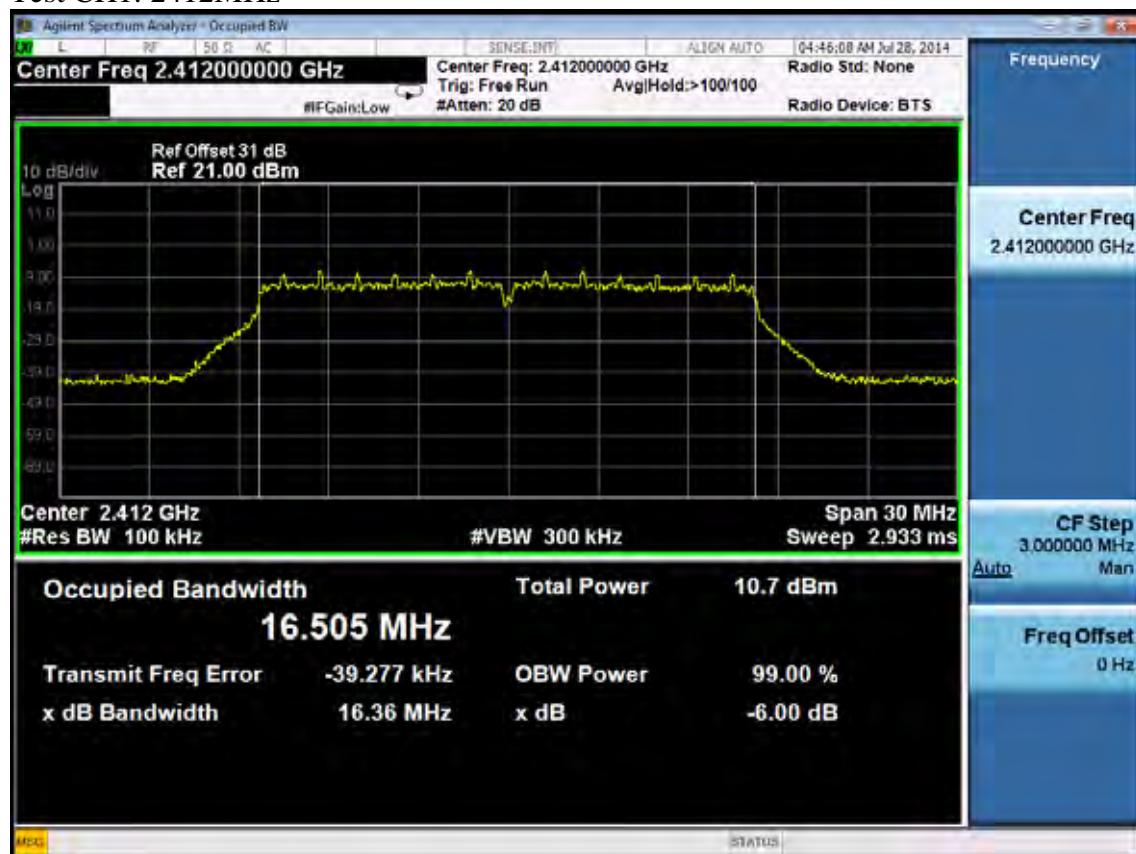


Test CH11: 2462MHz

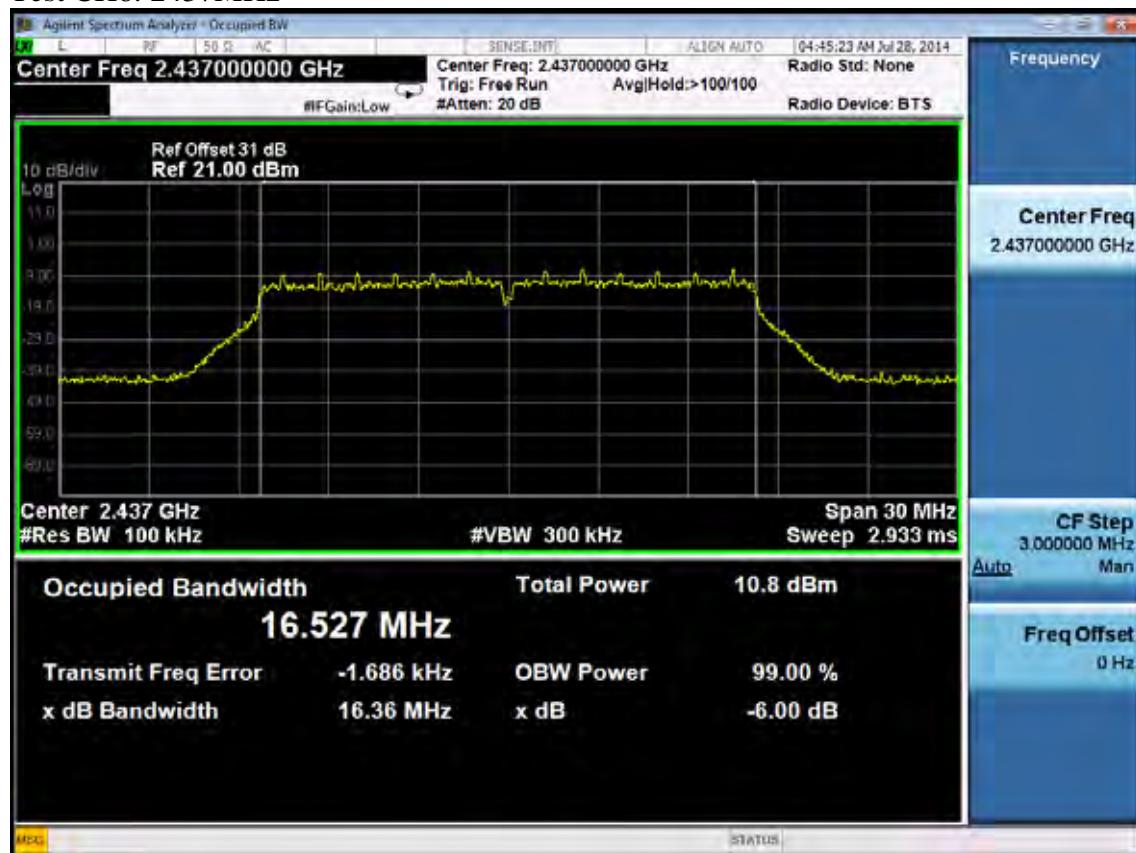


Test Mode: IEEE 802.11g TX

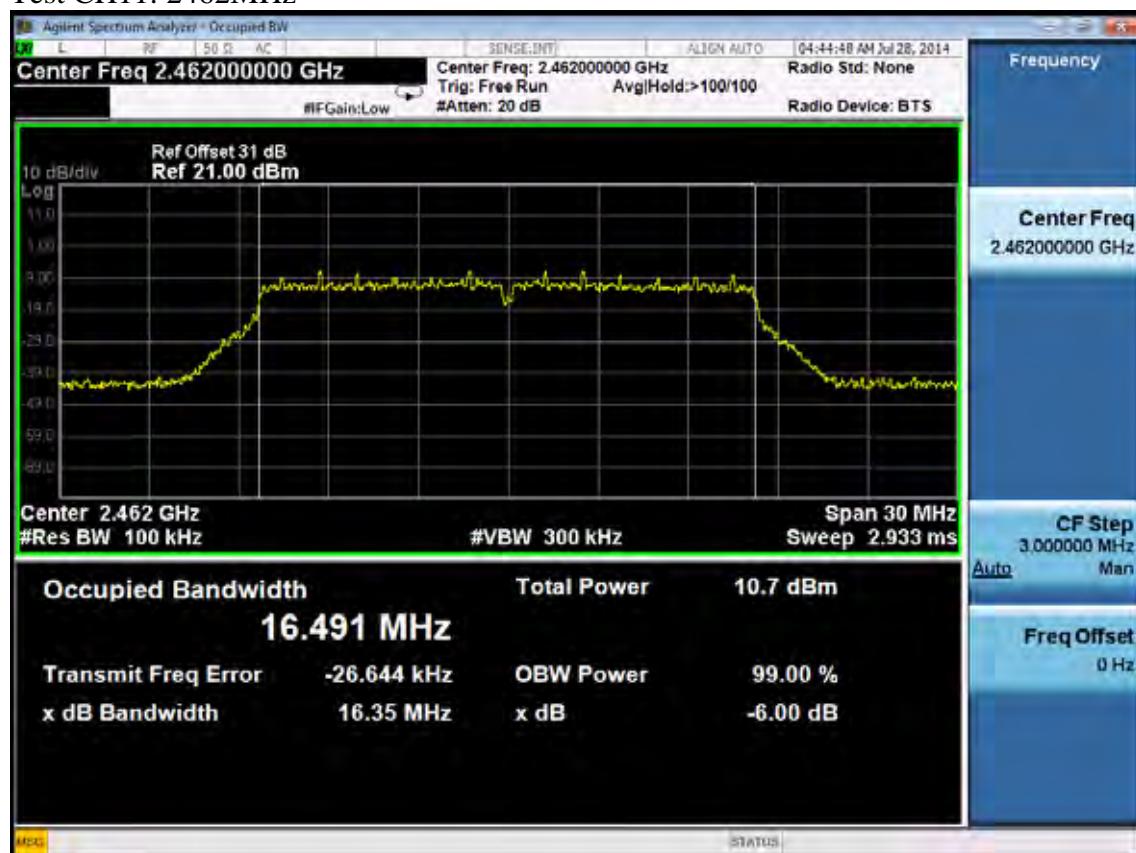
Test CH1: 2412MHz



Test CH6: 2437MHz

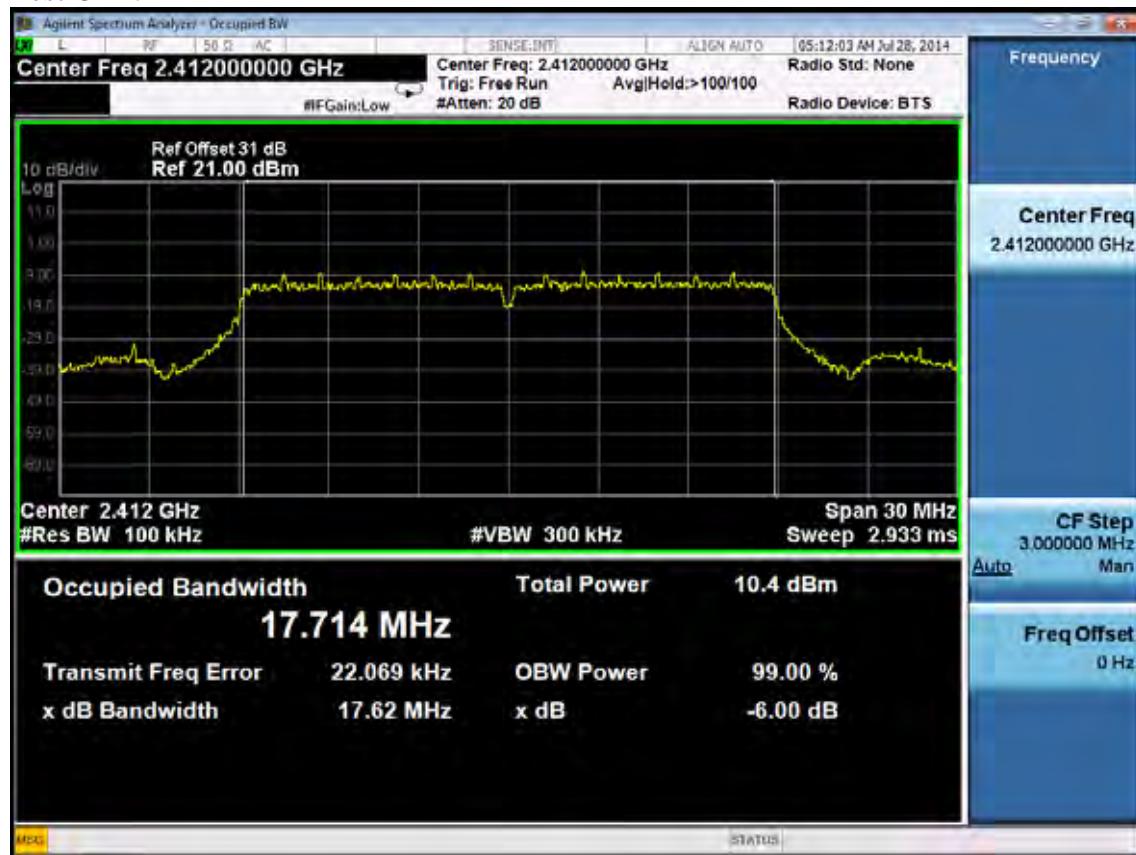


Test CH11: 2462MHz

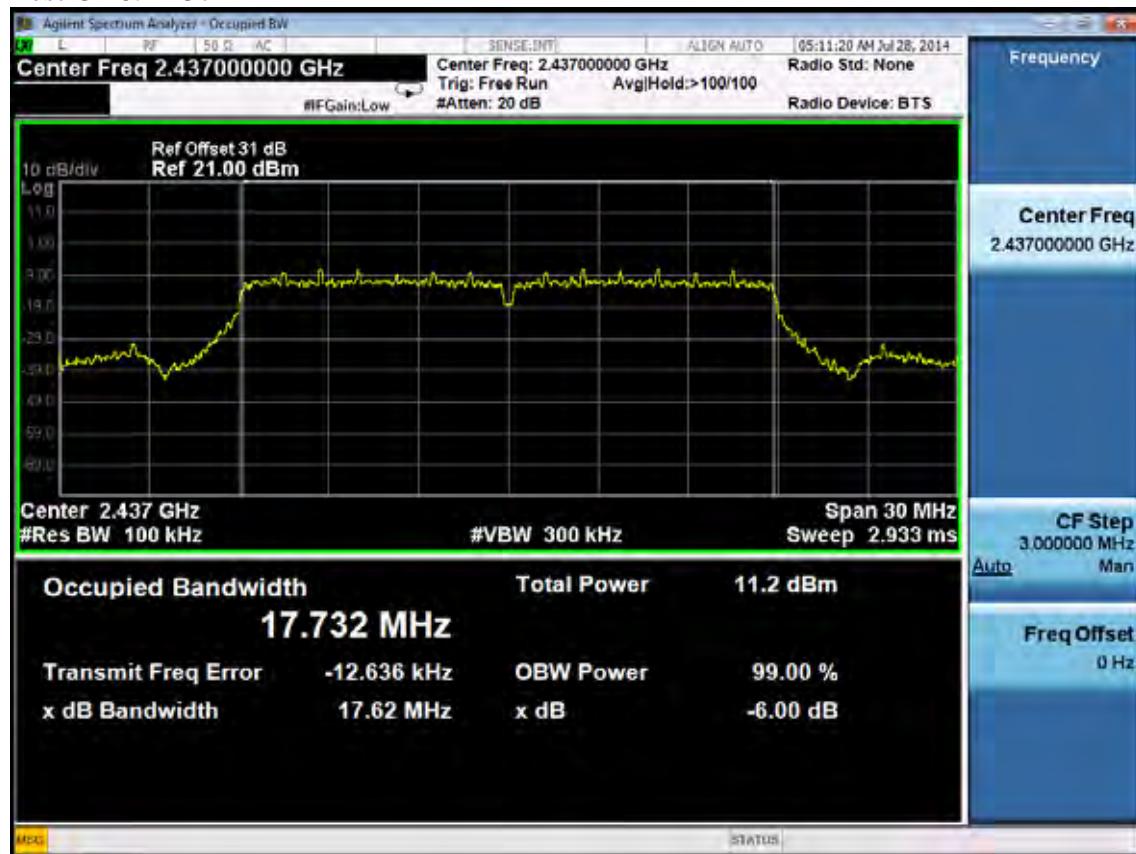


Test Mode: IEEE 802.11n HT20 TX

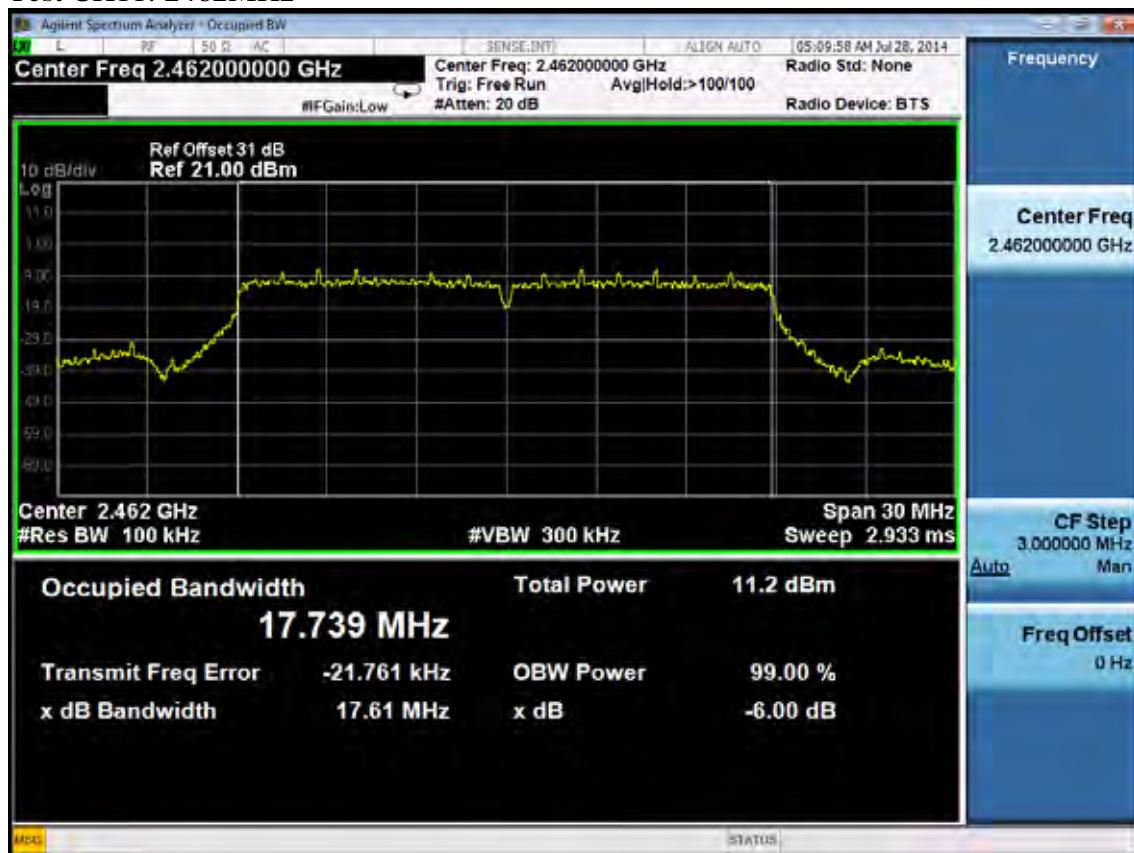
Test CH1: 2412MHz



Test CH6: 2437MHz

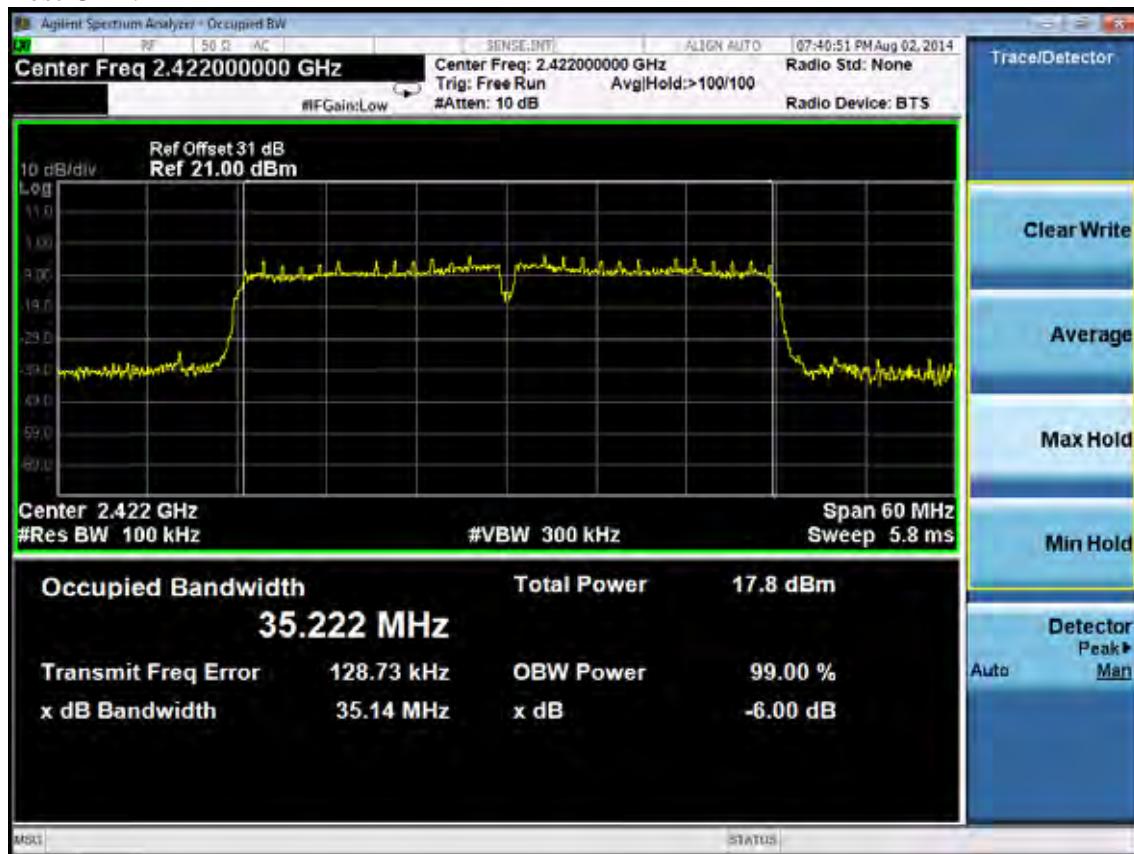


Test CH11: 2462MHz

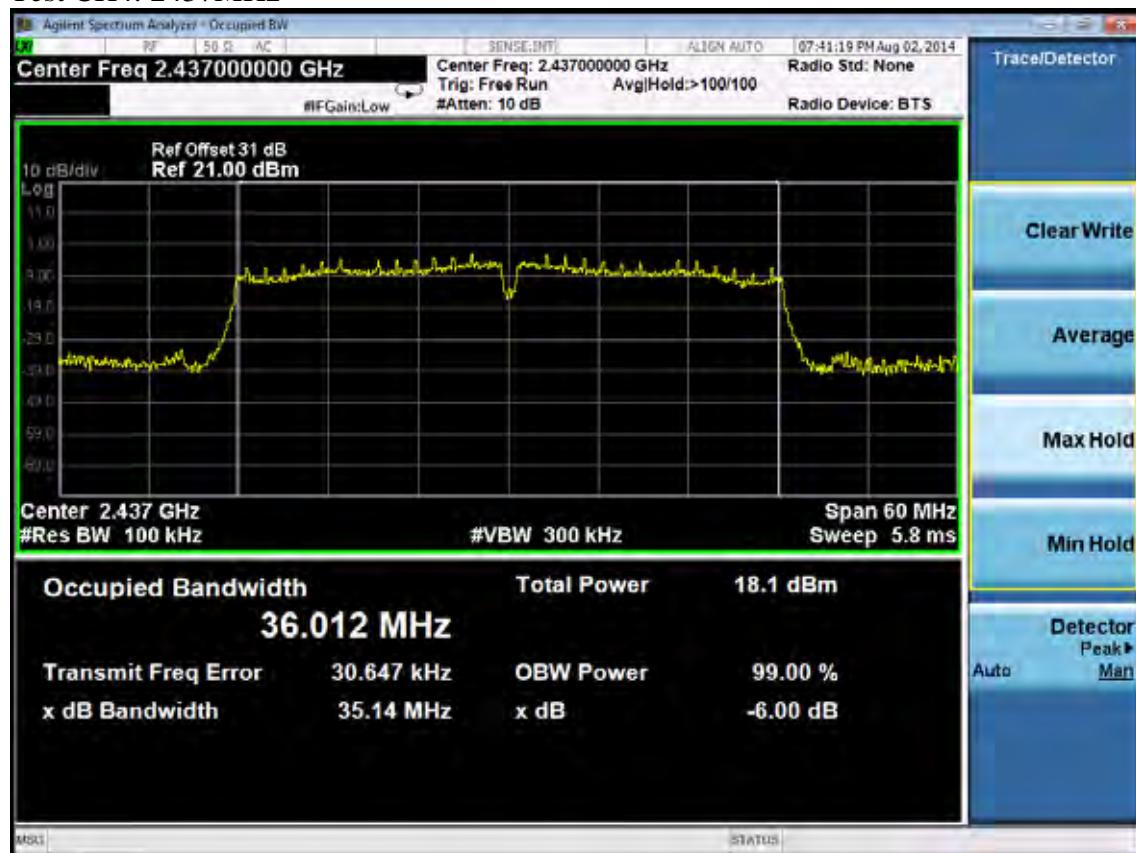


Test Mode: IEEE 802.11n HT40 TX

Test CH1: 2422MHz



Test CH4: 2437MHz



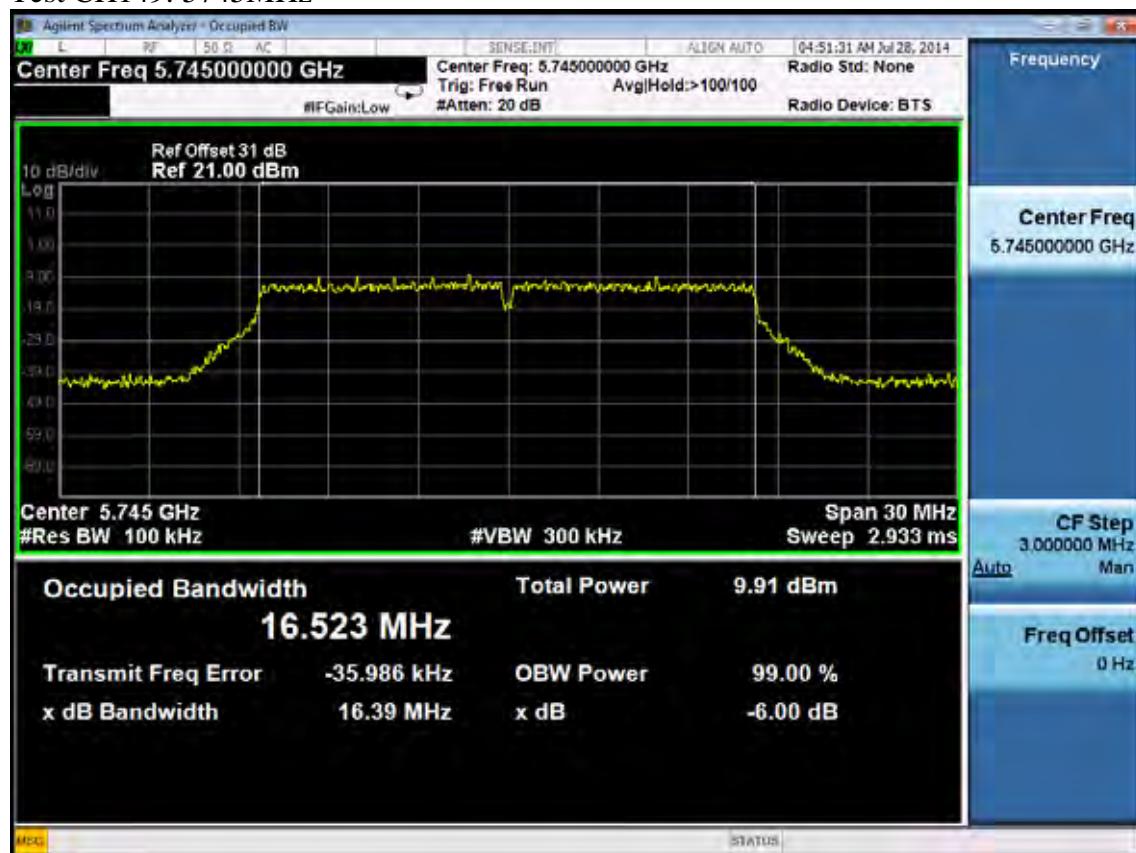
Test CH7: 2452MHz



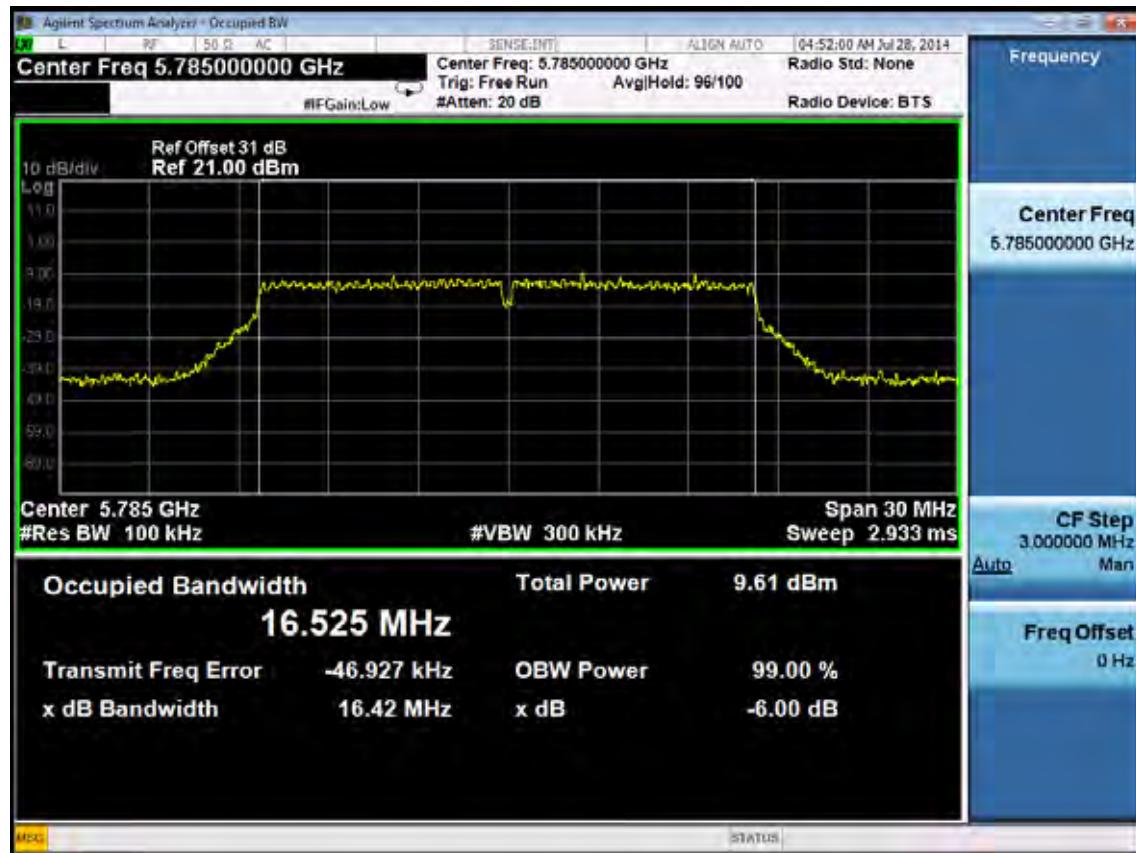
5.8G:
Chain 1:

Test Mode: IEEE 802.11a TX

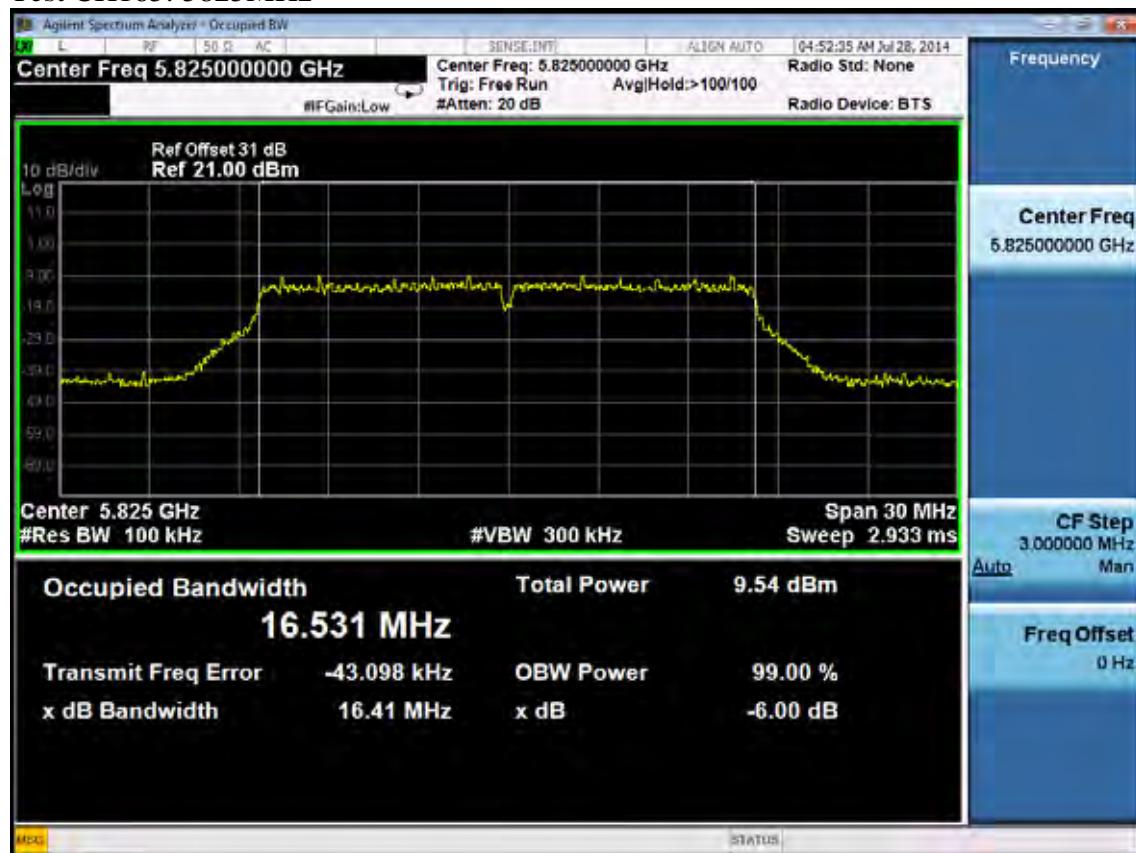
Test CH149: 5745MHz



Test CH157: 5785MHz

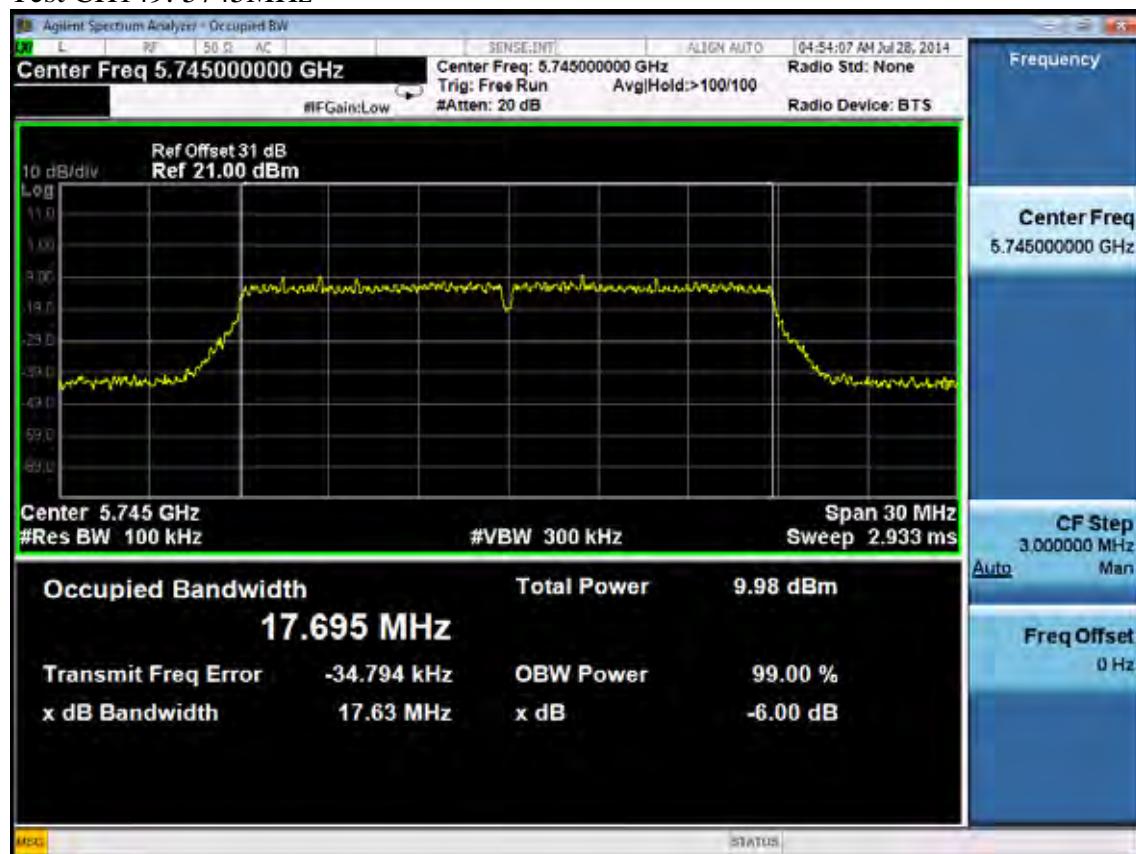


Test CH165: 5825MHz

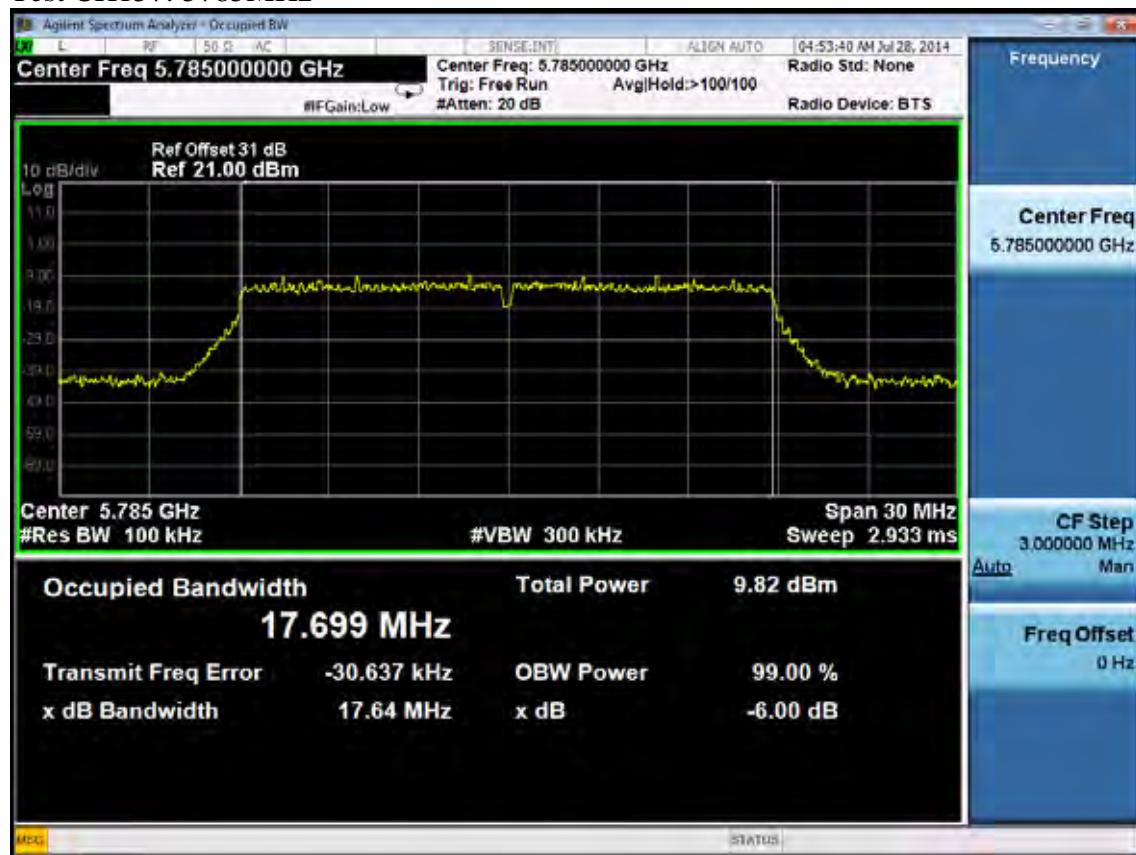


Test Mode: IEEE 802.11n HT20 TX

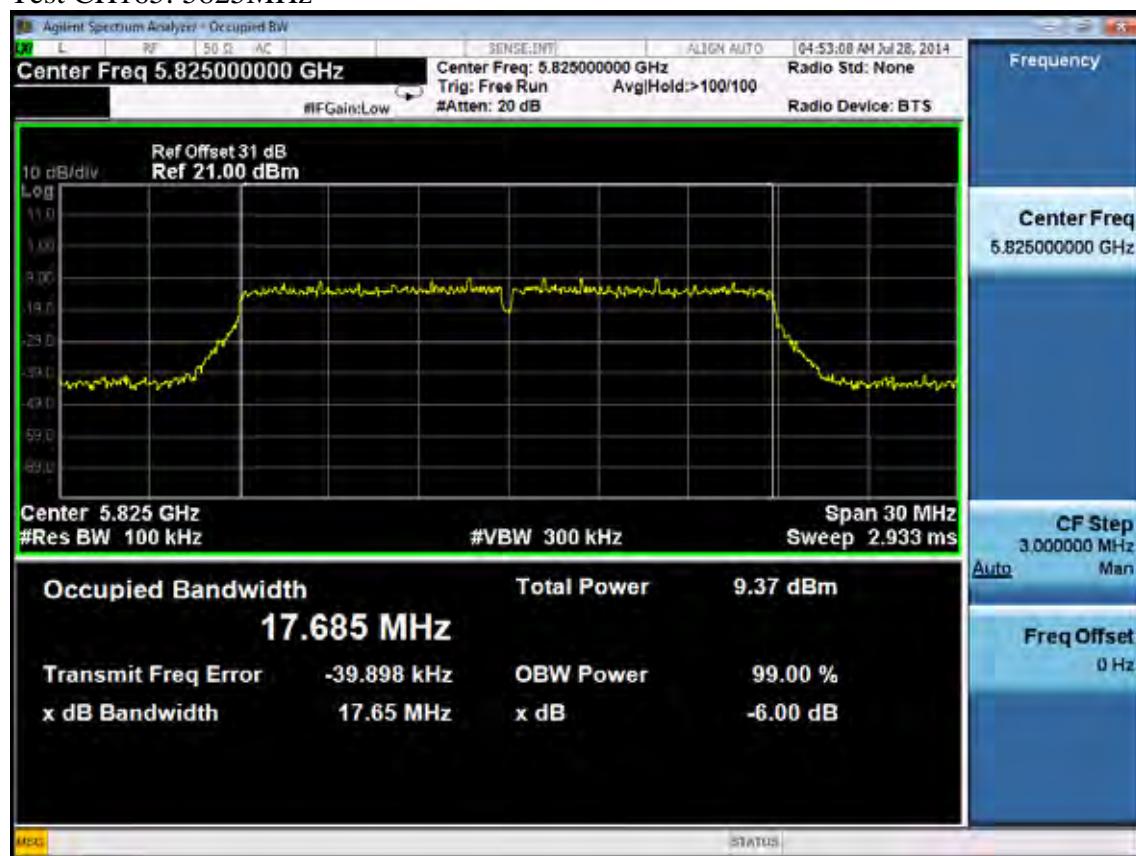
Test CH149: 5745MHz



Test CH157: 5785MHz

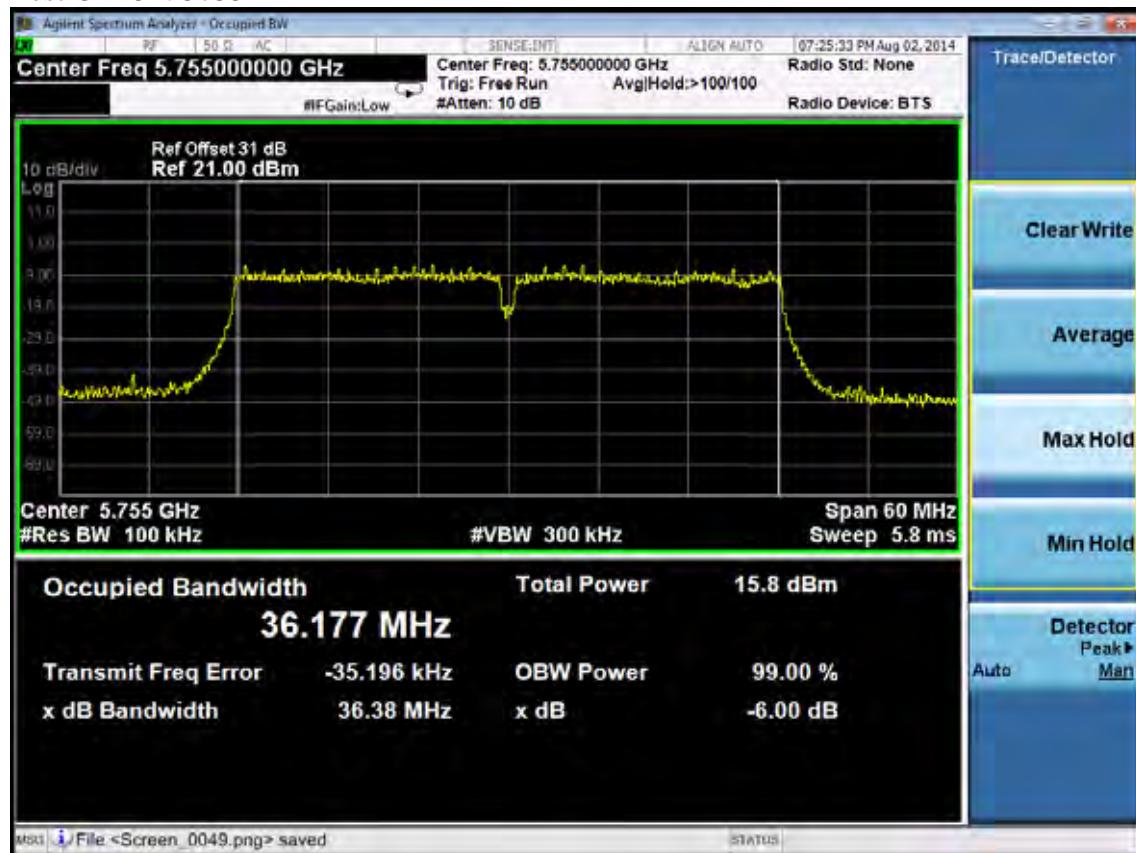


Test CH165: 5825MHz

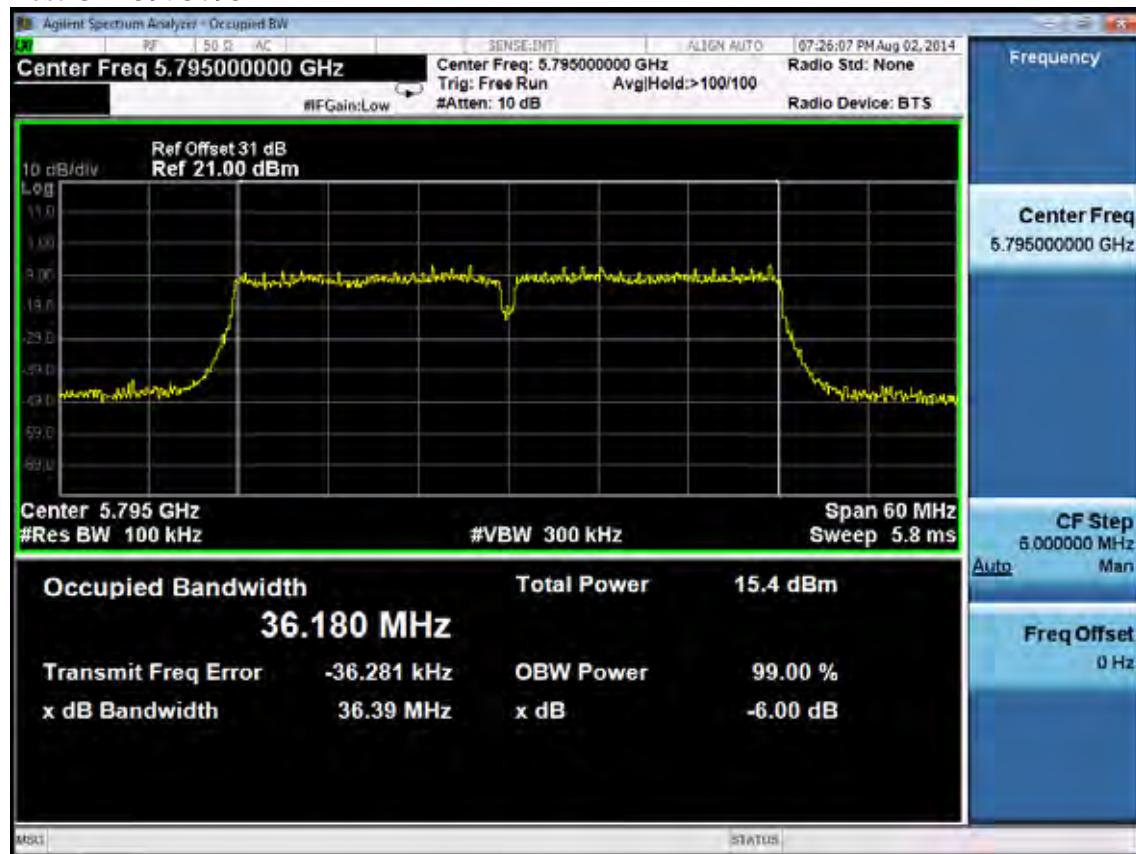


Test Mode: IEEE 802.11n HT40 TX

Test CH151: 5755MHz



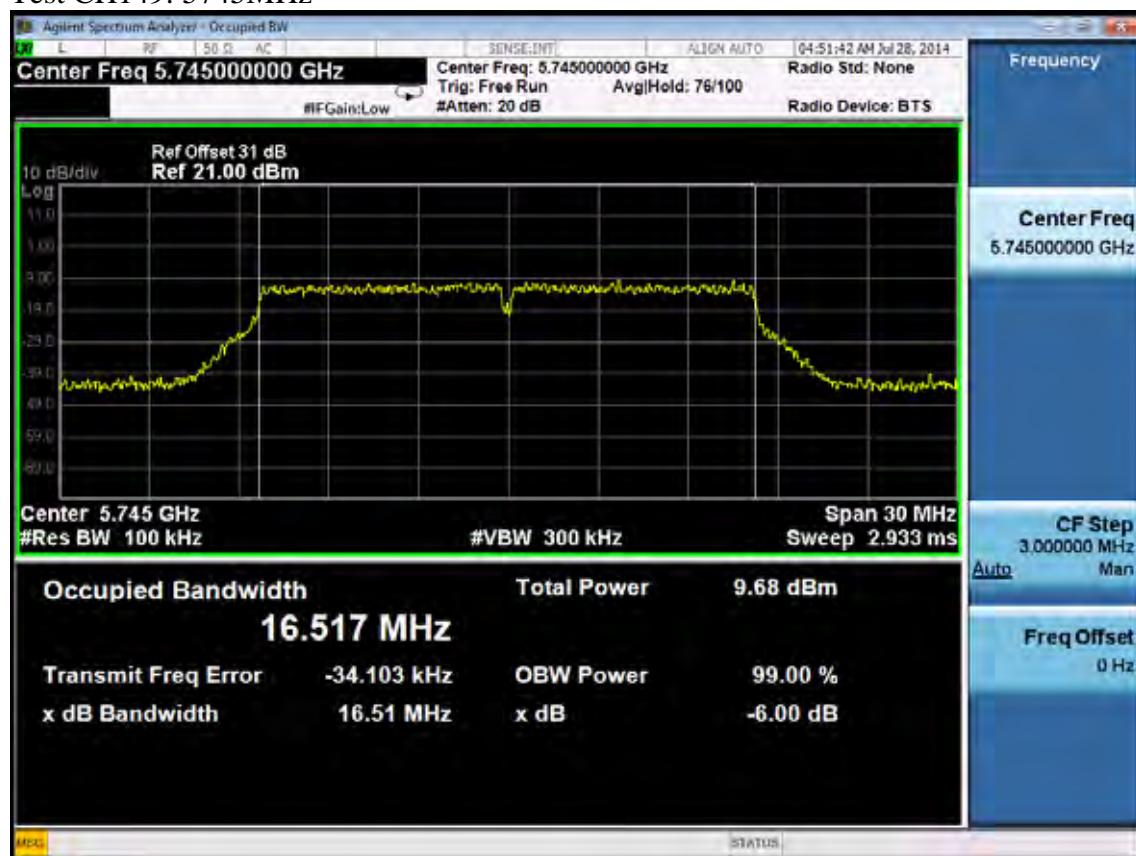
Test CH159: 5795MHz



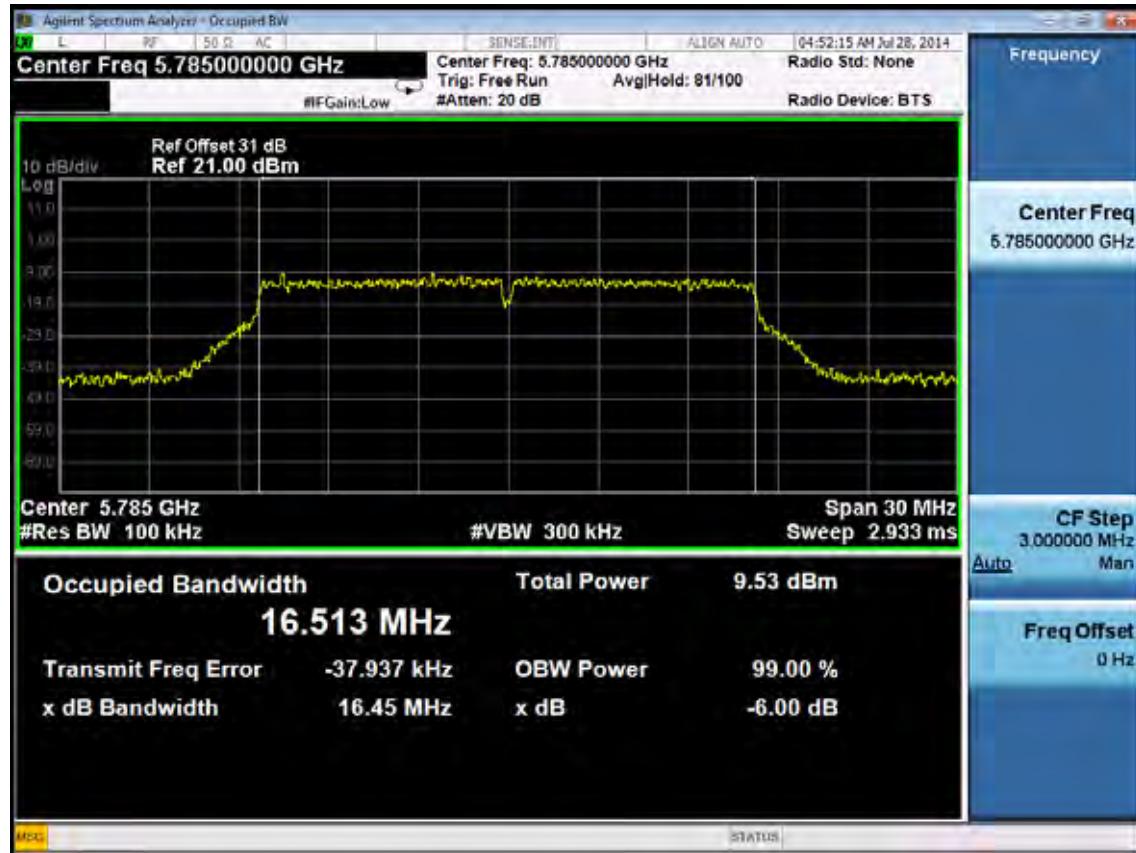
Chain 2:

Test Mode: IEEE 802.11a TX

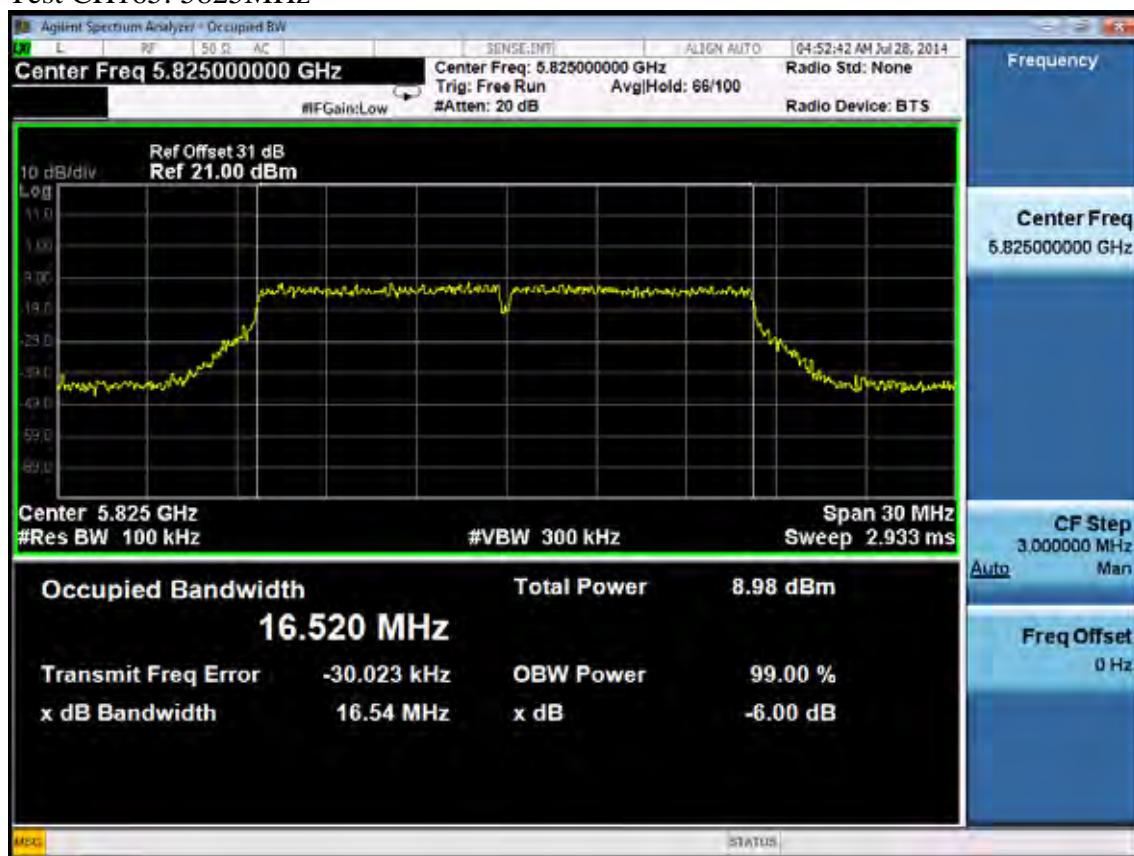
Test CH149: 5745MHz



Test CH157: 5785MHz

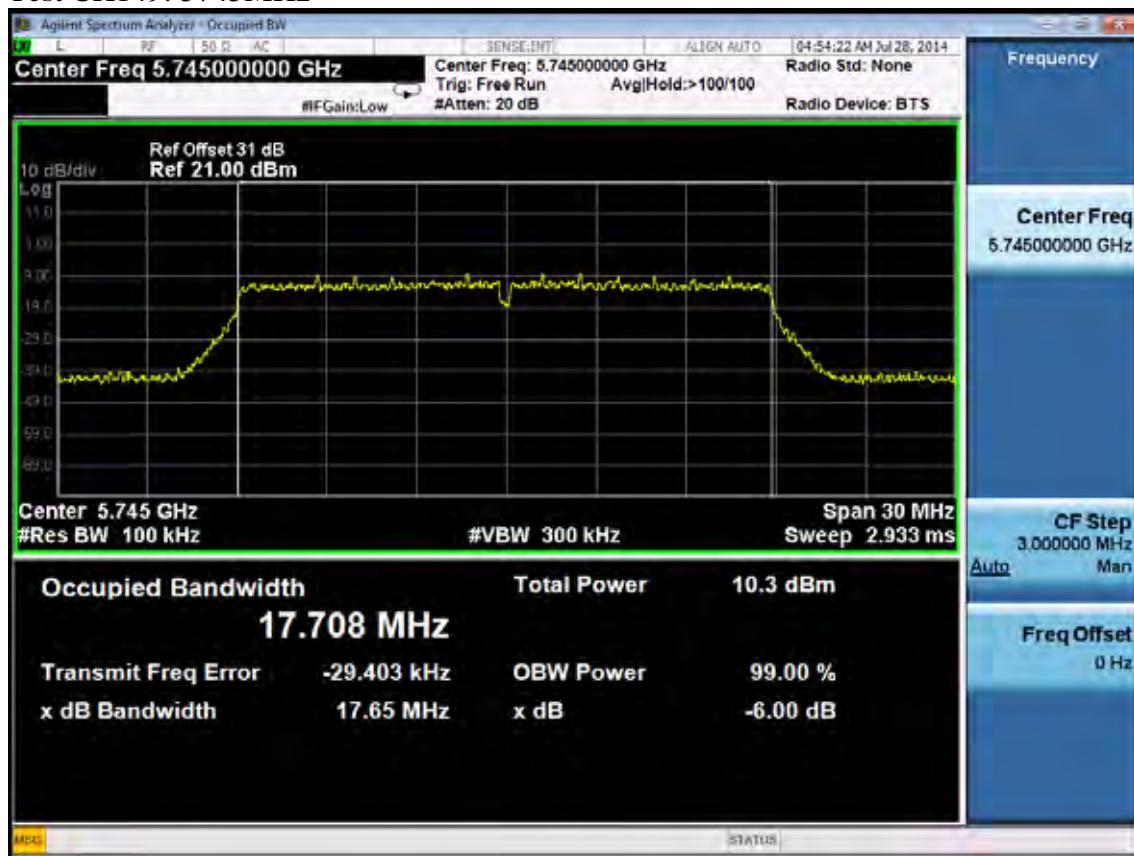


Test CH165: 5825MHz

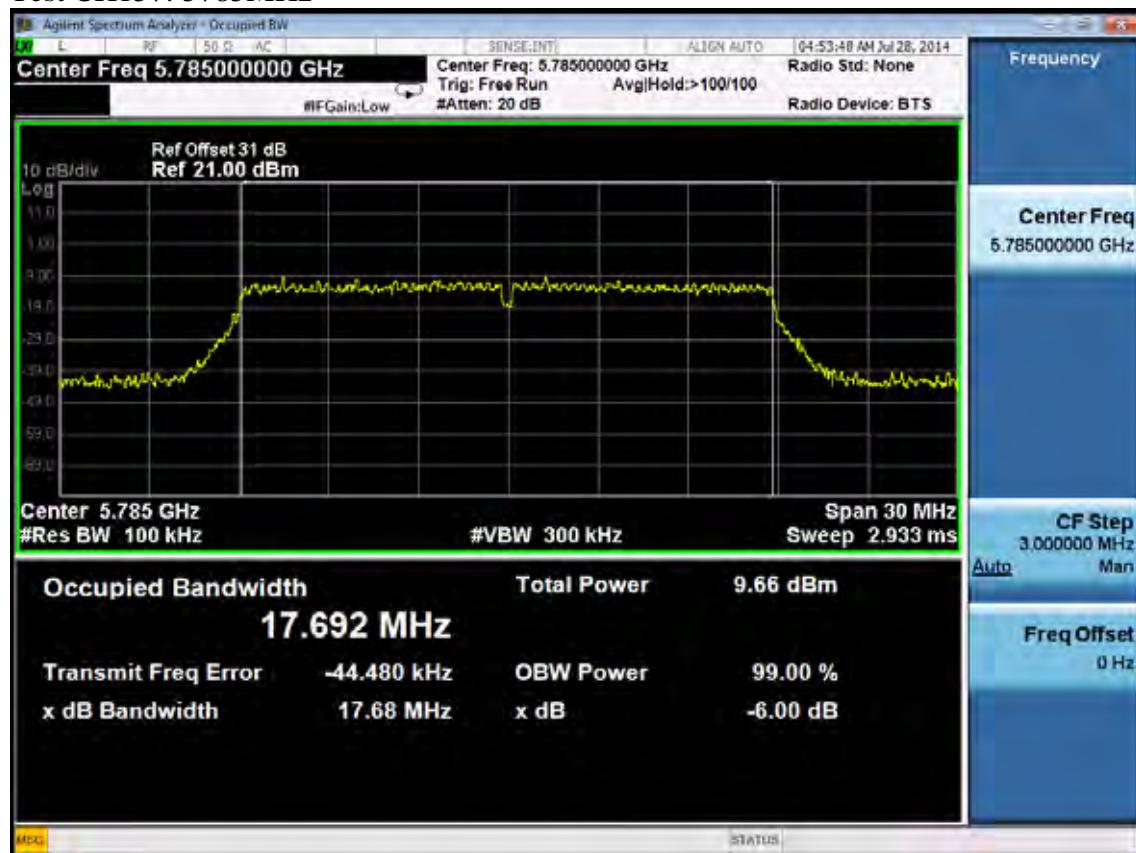


Test Mode: IEEE 802.11n HT20 TX

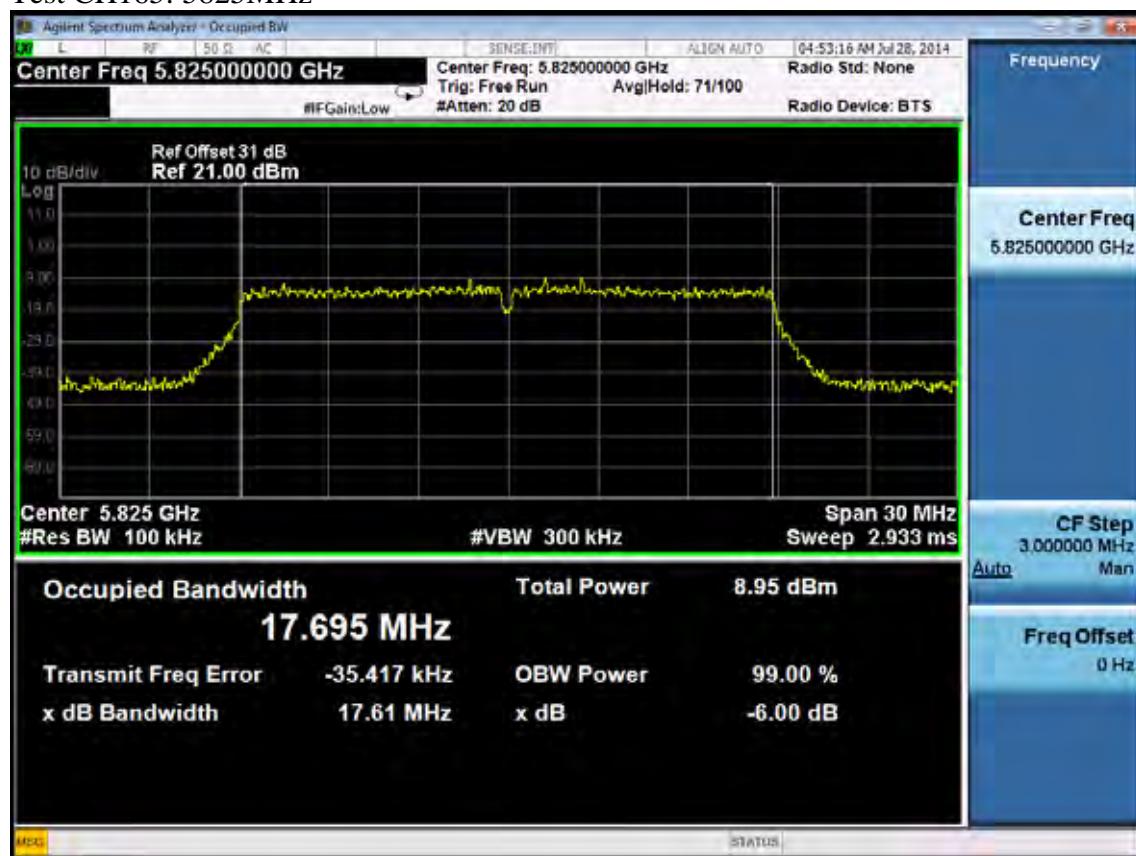
Test CH149: 5745MHz



Test CH157: 5785MHz

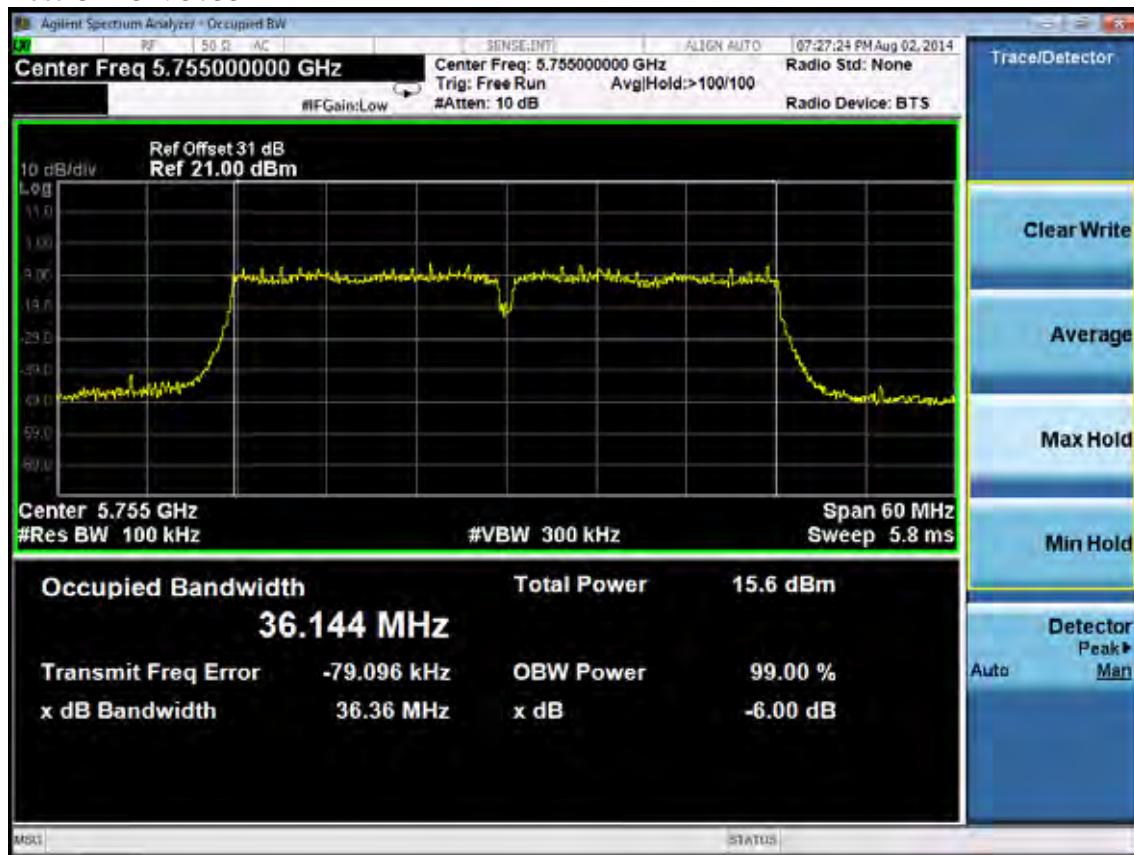


Test CH165: 5825MHz

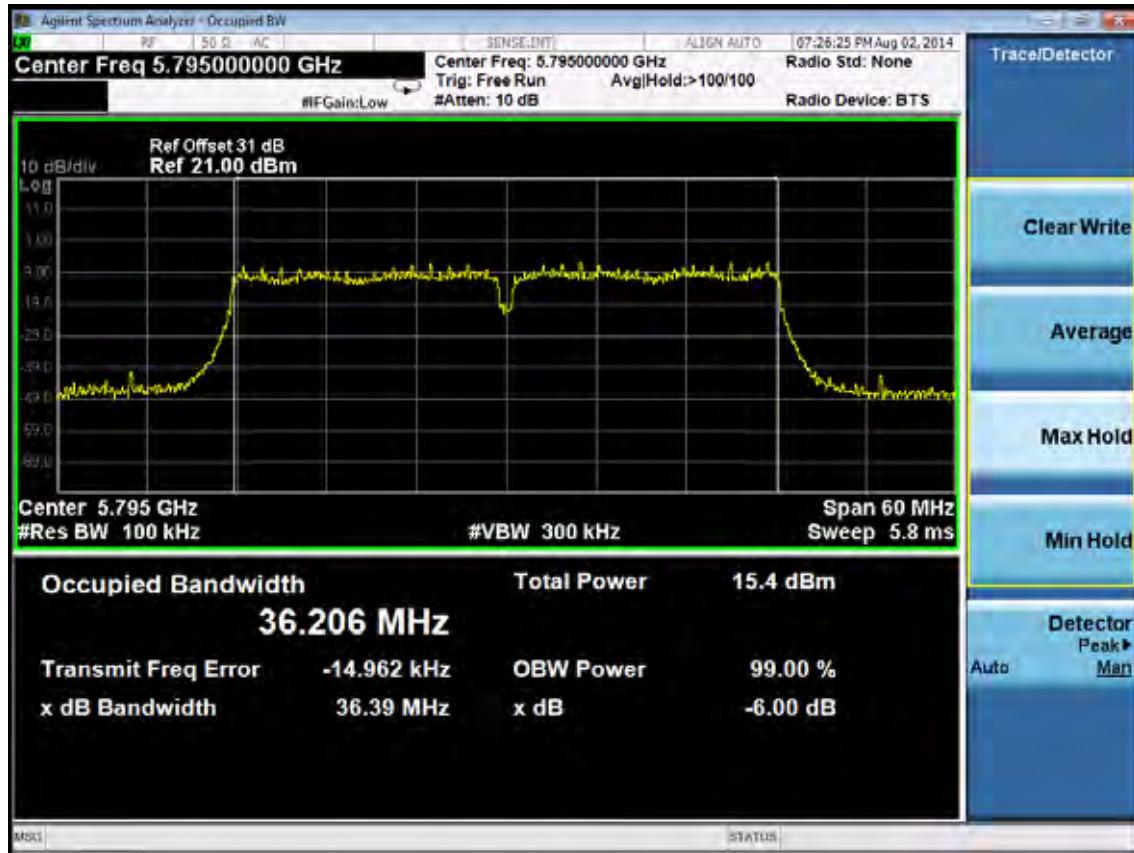


Test Mode: IEEE 802.11n HT40 TX

Test CH151: 5755MHz



Test CH159: 5795MHz



8. OUTPUT POWER TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.31, 12	1 Year
2.	Spectrum	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
3.	RF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	Apr. 28,14	1 Year
5.	Power Meter	Anritsu	ML2487A	6K00002472	May.08, 13	1 Year
6.	Power Sensor	Anritsu	MA2491A	033005	May.08, 13	1 Year
7.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,14	1 Year

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

For systems using digital modulation in the 2400—2483.5MHz, 5725-5850MHz, The Peak output Power shall not exceed 1W(30dBm)
 Antenna gain \geqslant 6dBi, Output Power Limit=30dBm-(antenna gain-6dBi)

8.3. Test Procedure

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

8.4. Test Results

2.4G:

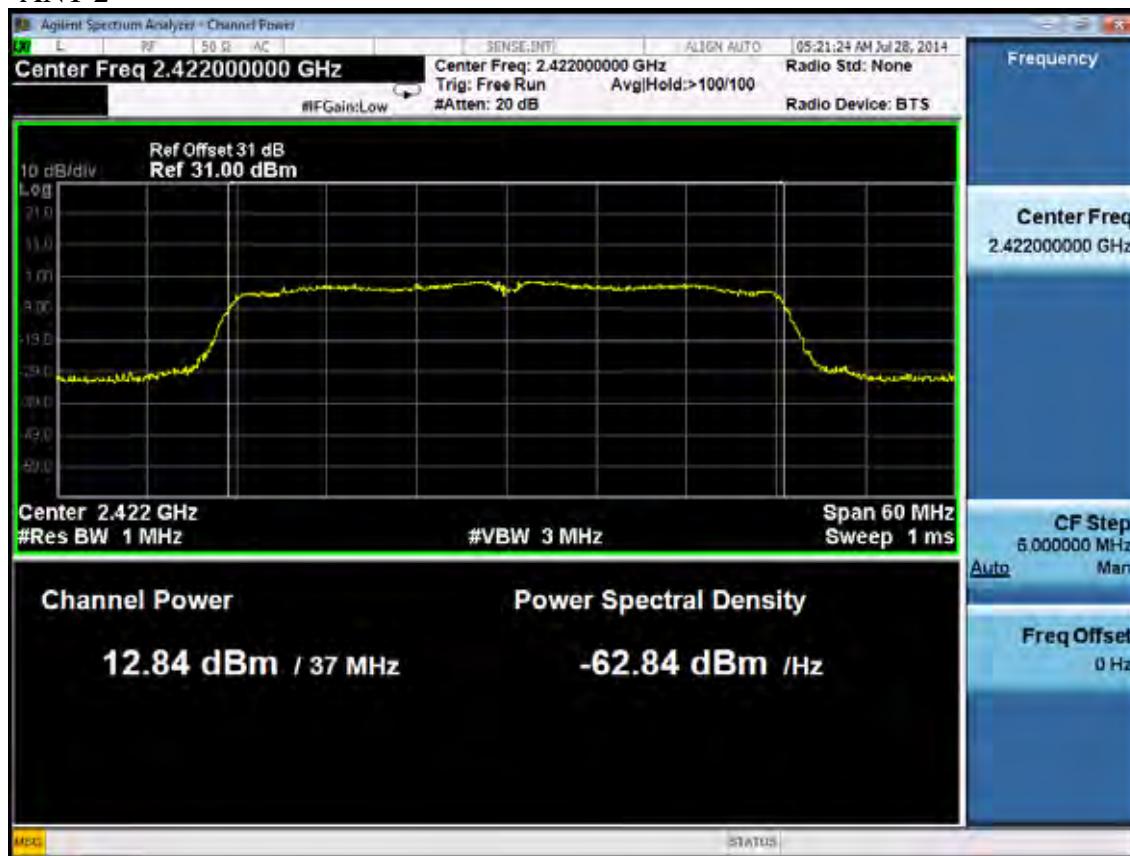
EUT:A8in Super WiFi Base Station							
M/N:WA8011N-HE							
Test date: 2014-07-28	Pressure: 101.2±1.0 kpa		Humidity: 51.3±3.0%				
Tested by: Kevin_Hu	Test site: RF site		Temperature:22.3±0.6 °C				
Cable loss: 1 dB			Attenuator loss: 20 dB				
Test Mode	CH	Peak output Power (dBm)			Limit (dBm)		
		ANT1	ANT2	Total			
11b	CH1	13.67	12.65	16.20	22		
	CH6	13.59	12.44	16.06	22		
	CH11	13.57	12.68	16.16	22		
11g	CH1	13.51	12.52	16.05	22		
	CH6	13.53	12.81	16.20	22		
	CH11	13.42	12.32	15.92	22		
11n HT20	CH1	13.29	12.67	16.00	22		
	CH6	13.38	12.81	16.11	22		
	CH11	13.42	12.65	16.06	22		
11n HT40	CH1	13.36	12.84	16.12	22		
	CH4	13.60	13.08	16.36	22		
	CH7	13.36	12.87	16.13	22		
Conclusion: PASS							

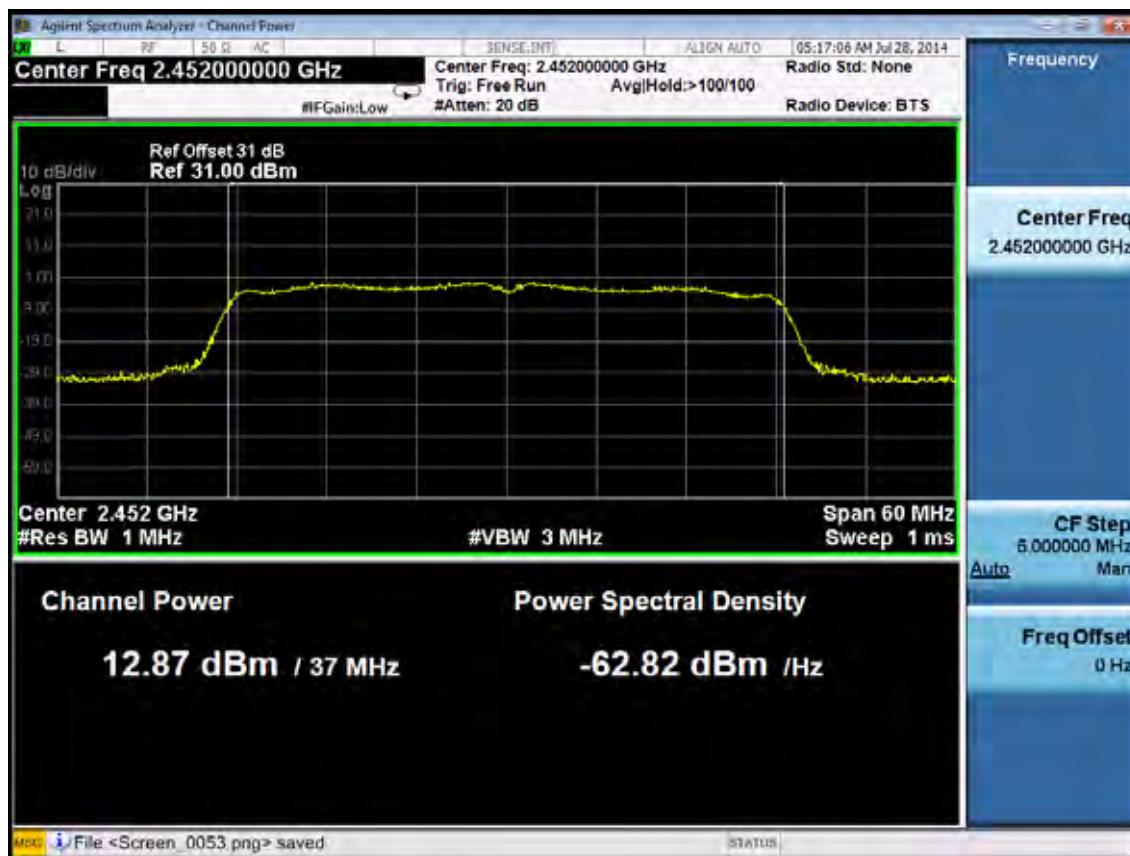
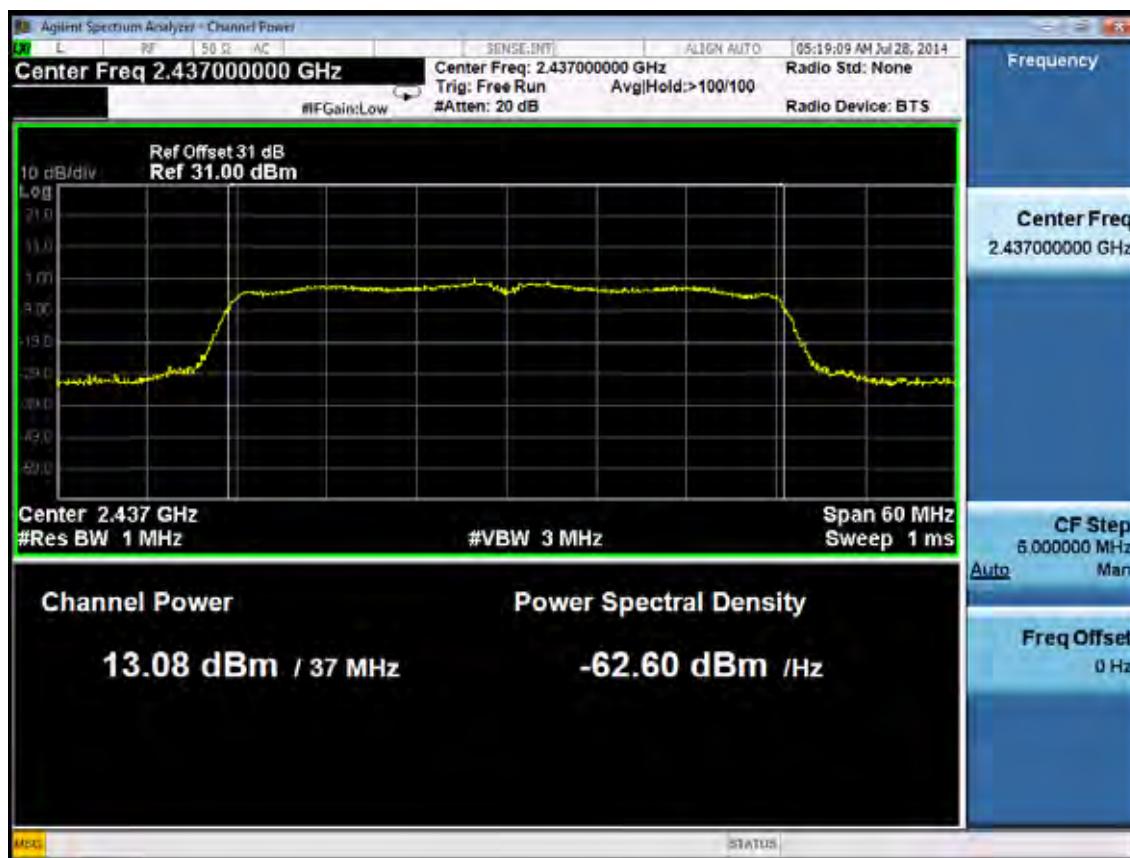
Test Mode: IEEE 802.11n HT40
ANT 1





ANT 2

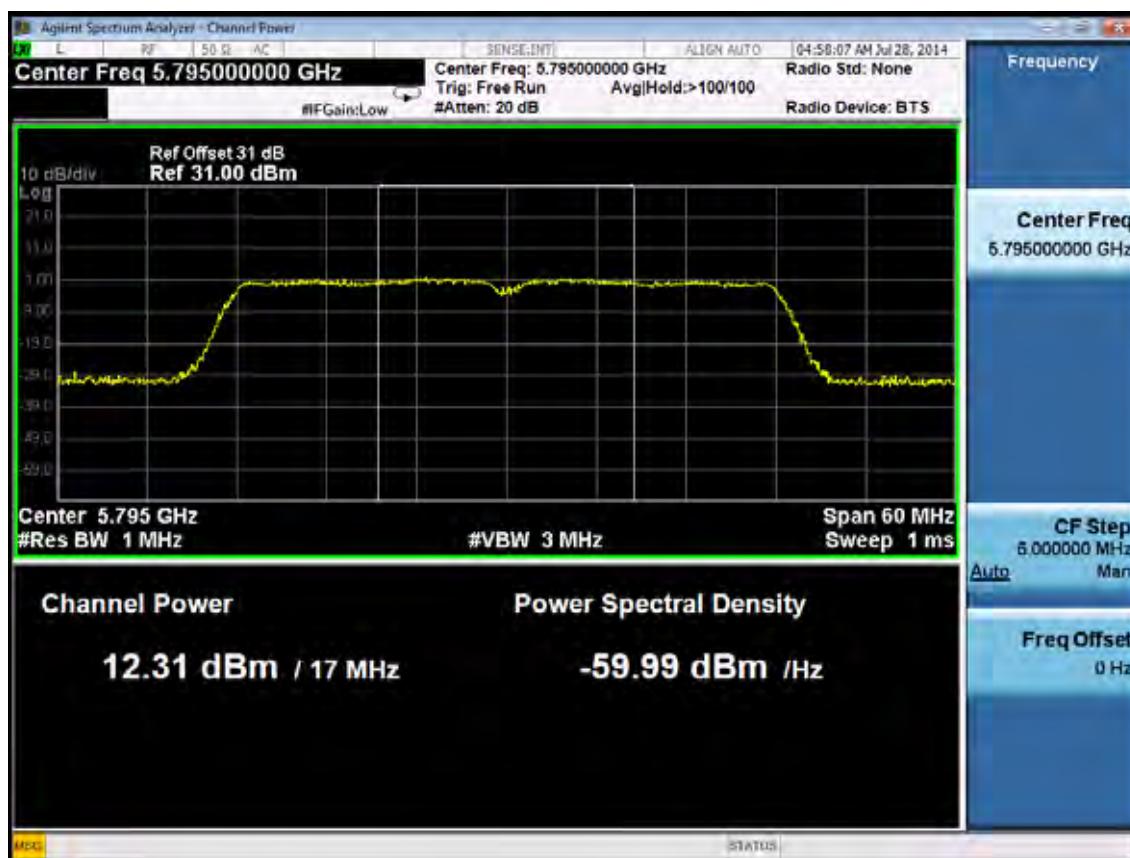
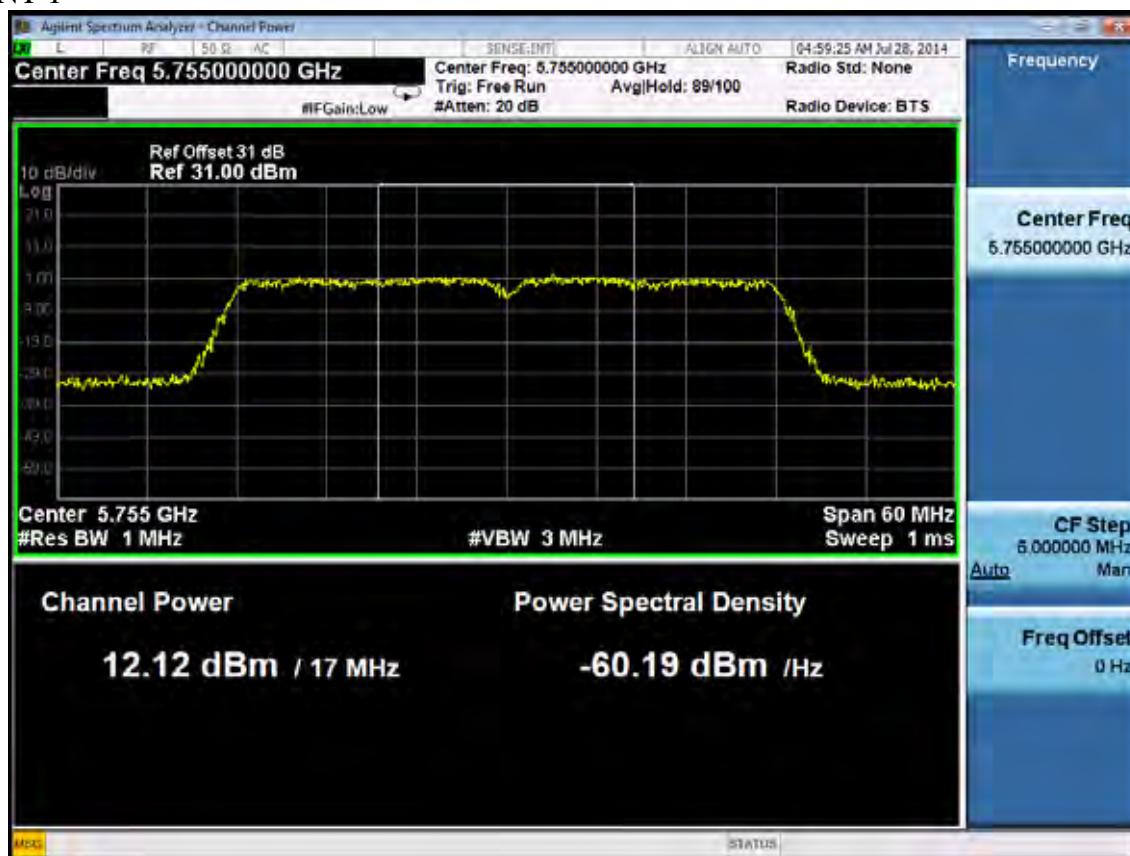




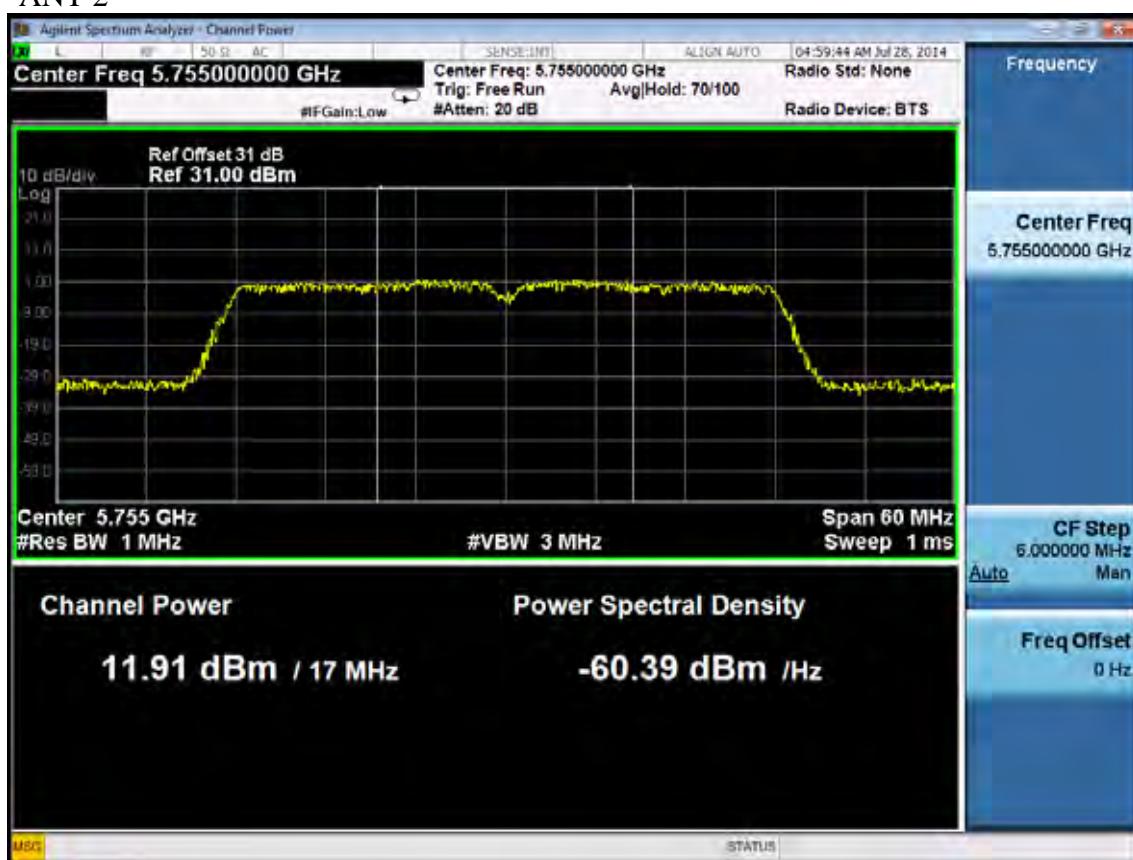
5.8G:

EUT:A8in Super WiFi Base Station							
M/N:WA8011N-HE							
Test date: 2014-07-28	Pressure: 101.5±1.0 kpa		Humidity: 51.2±3.0%				
Tested by: Kevin_Hu	Test site: RF site		Temperature:22.4±0.6 °C				
Cable loss: 1 dB			Attenuator loss: 20 dB				
Test Mode	CH	Peak output Power (dBm)			Limit (dBm)		
		ANT1	ANT2	Total			
11a	CH149	12.5	11.45	15.02	16		
	CH157	12.43	11.38	14.95	16		
	CH165	12.47	11.32	14.94	16		
11n HT20	CH149	11.74	11.56	14.66	16		
	CH157	11.78	11.53	14.67	16		
	CH165	11.85	11.52	14.70	16		
11n HT40	CH151	12.12	11.91	15.03	16		
	CH159	12.31	12.00	15.17	16		
Conclusion: PASS							

Test Mode: IEEE 802.11n HT40
ANT 1



ANT 2



9. POWER SPECTRAL DENSITY TEST

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Oct.31, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9607-4877	Aug.28, 13	1 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year

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. Set the test frequency as center frequency, Set RBW=3KHz, VBW=10KHz, Span large enough capture the entire frequency, Read out maximum peak level frequency
3. Set the frequency read from produce 2 as center frequency, then set the span=300KHz, Sweep time=Span/RBW, Then Max hold, read out each mode and each chain's Power density.

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

9.4. Test Results

2.4G:

EUT: A8in Super WiFi Base Station		
M/N:WA8011N-HE		
Test date: 2013-10-14	Pressure: 101.2±1.0 kpa	Humidity: 49.2±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature : 23.4±0.6°C

Cable loss: 1 dB		Attenuator loss: 20 dB			
Test Mode	CH	Power density (dBm/3KHz)			Limit (dBm/3KHz)
		ANT 1	ANT 2	Total	
11b	CH1	-9.752	-12.406	-7.87	8
	CH6	-12.333	-8.643	-7.10	8
	CH11	-11.068	-10.844	-7.94	8
11g	CH1	-17.209	-18.419	-14.76	8
	CH6	-17.519	-18.108	-14.79	8
	CH11	-17.209	-17.651	-14.41	8
11n Mode					
Test Mode	CH	Power density (dBm/3KHz)			Limit (dBm/3KHz)
		ANT 1	ANT 2	Total	
11n HT20	CH1	-18.523	-18.369	-15.14	8
	CH6	-17.207	-16.748	-13.96	8
	CH11	-18.690	-17.092	-14.81	8
11n HT40	CH1	-16.936	-17.484	-14.19	8
	CH4	-15.302	-15.101	-12.19	8
	CH7	-16.883	-16.123	-13.48	8
Conclusion : PASS					

5.8G:

EUT: A8in Super WiFi Base Station		
M/N: WA8011N-HE		
Test date: 2013-10-14	Pressure: 101.3±1.0 kpa	Humidity: 50.4±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature : 24.6±0.6°C

Cable loss: 1 dB		Attenuator loss: 20 dB			
Test Mode	CH	Power density (dBm/3KHz)			Limit (dBm/3KHz)
		ANT 0	ANT 1	Total	
11a	CH149	-5.049	-5.810	-2.40	8
	CH157	-2.953	-2.851	0.11	8
	CH165	-3.118	-3.219	-0.16	8
11n Mode					
Test Mode	CH	Power density (dBm/3KHz)			Limit (dBm/3KHz)
		ANT 0	ANT 1	Total	
11n HT20	CH149	-4.107	-4.223	-1.15	8
	CH157	-9.617	-2.140	-1.43	8
	CH165	-2.011	-6.090	-0.58	8
11n HT40	CH151	-0.028	-0.050	2.97	8
	CH159	-3.091	-3.110	-0.09	8
Conclusion : PASS					

2.4G:
Chain 1:

Test Mode: IEEE 802.11b TX

Test CH1: 2412MHz



Test CH6: 2437MHz

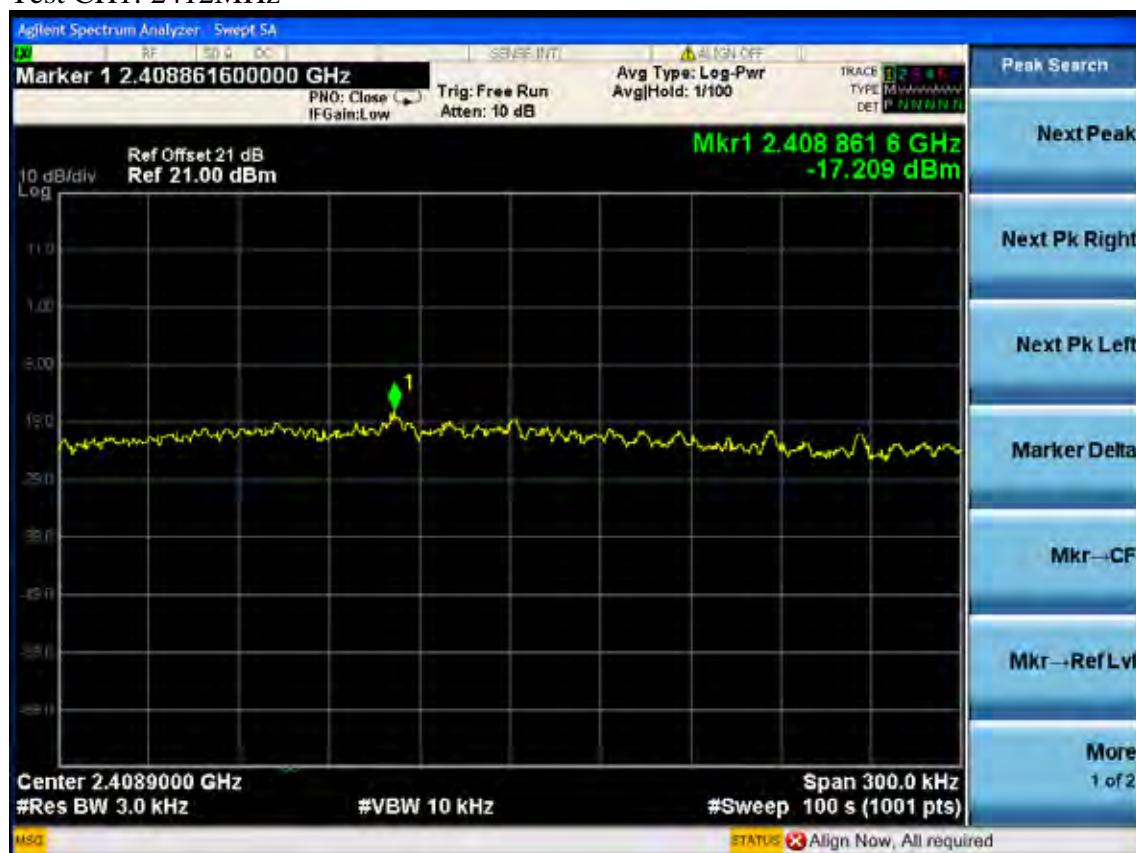


Test CH11: 2462MHz



Test Mode: IEEE 802.11g TX

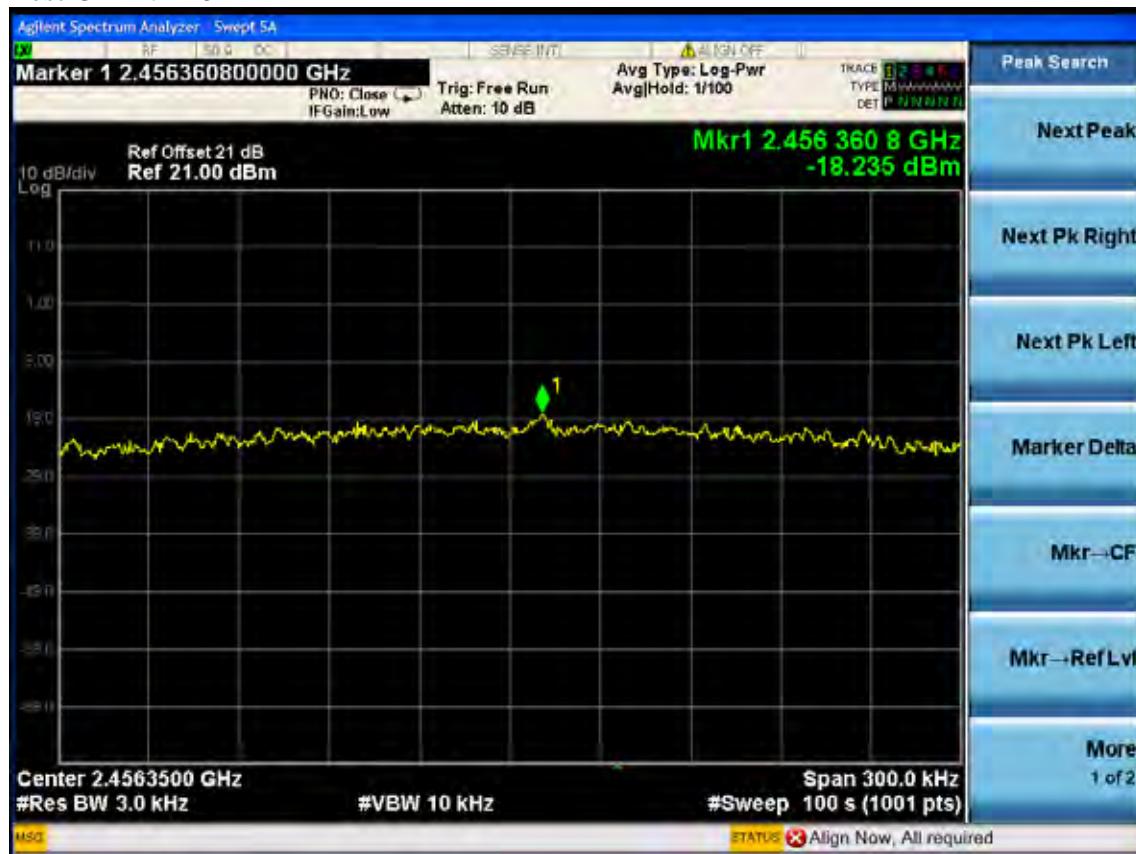
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz

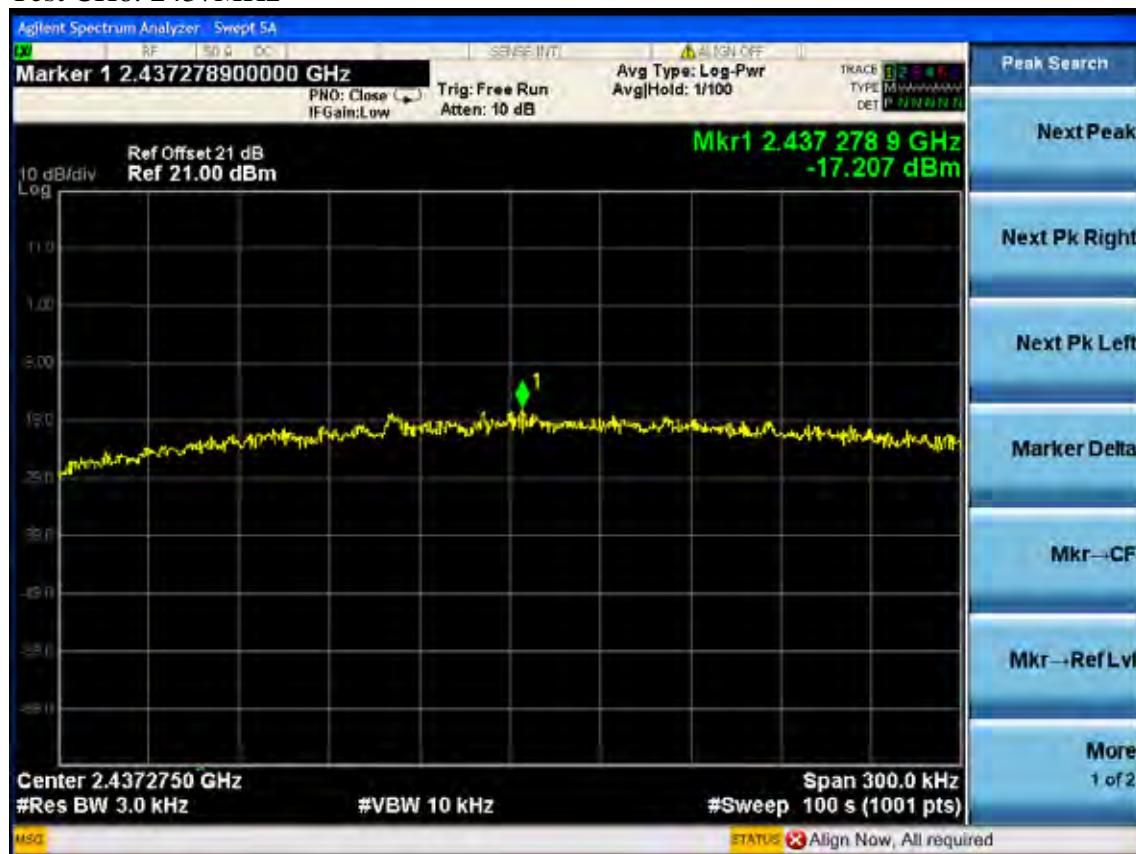


Test Mode: IEEE 802.11n HT20 TX

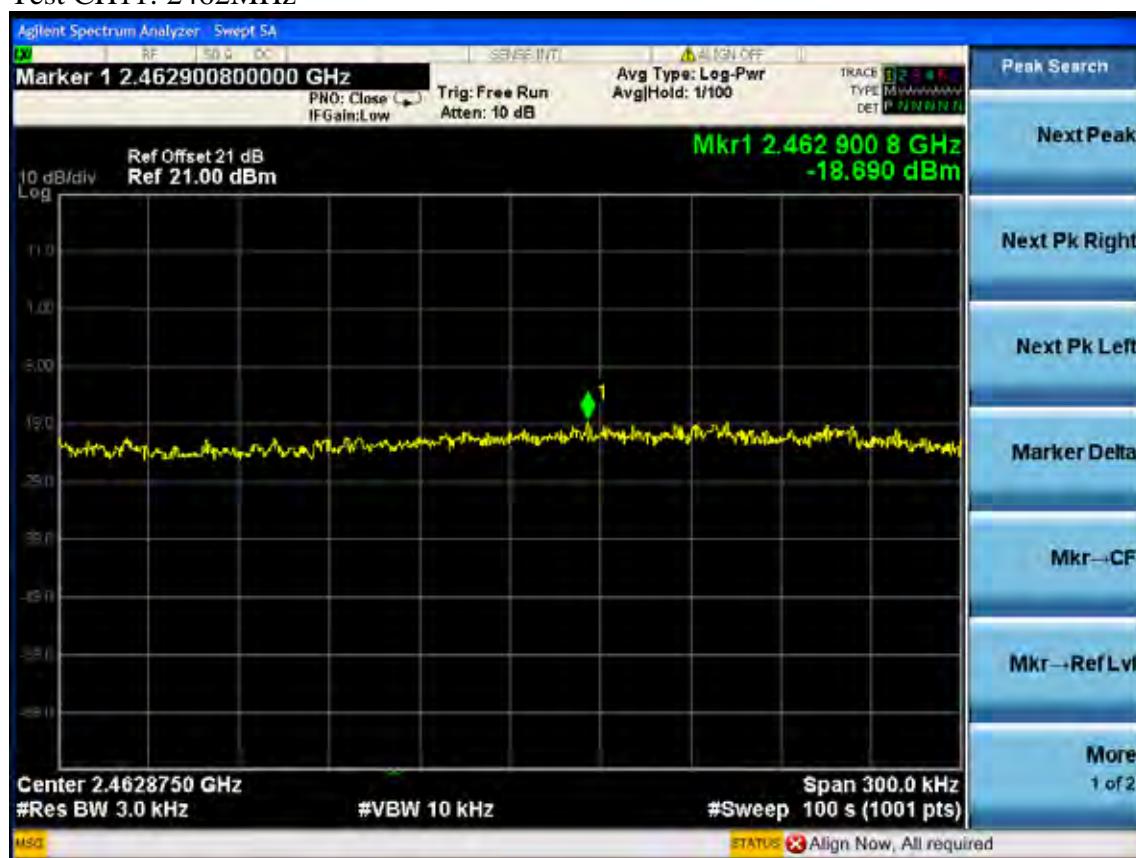
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz

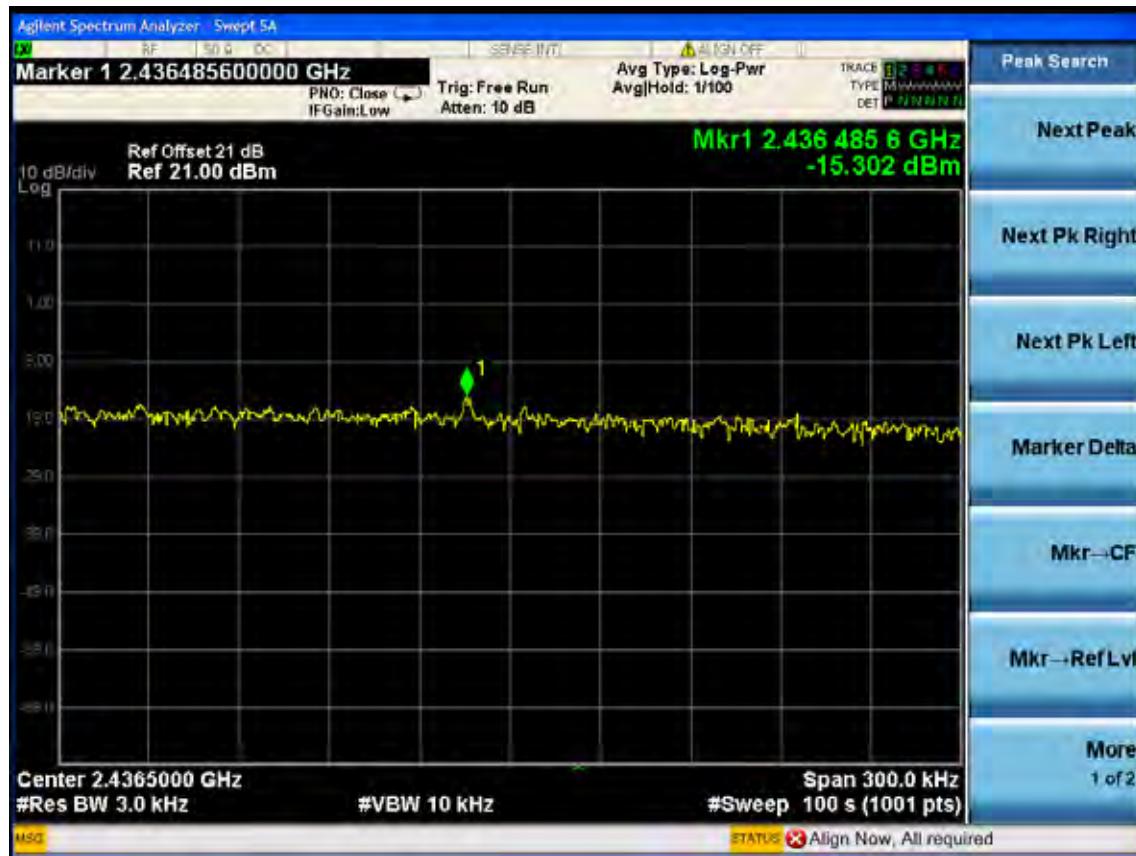


Test Mode: IEEE 802.11n HT40 TX

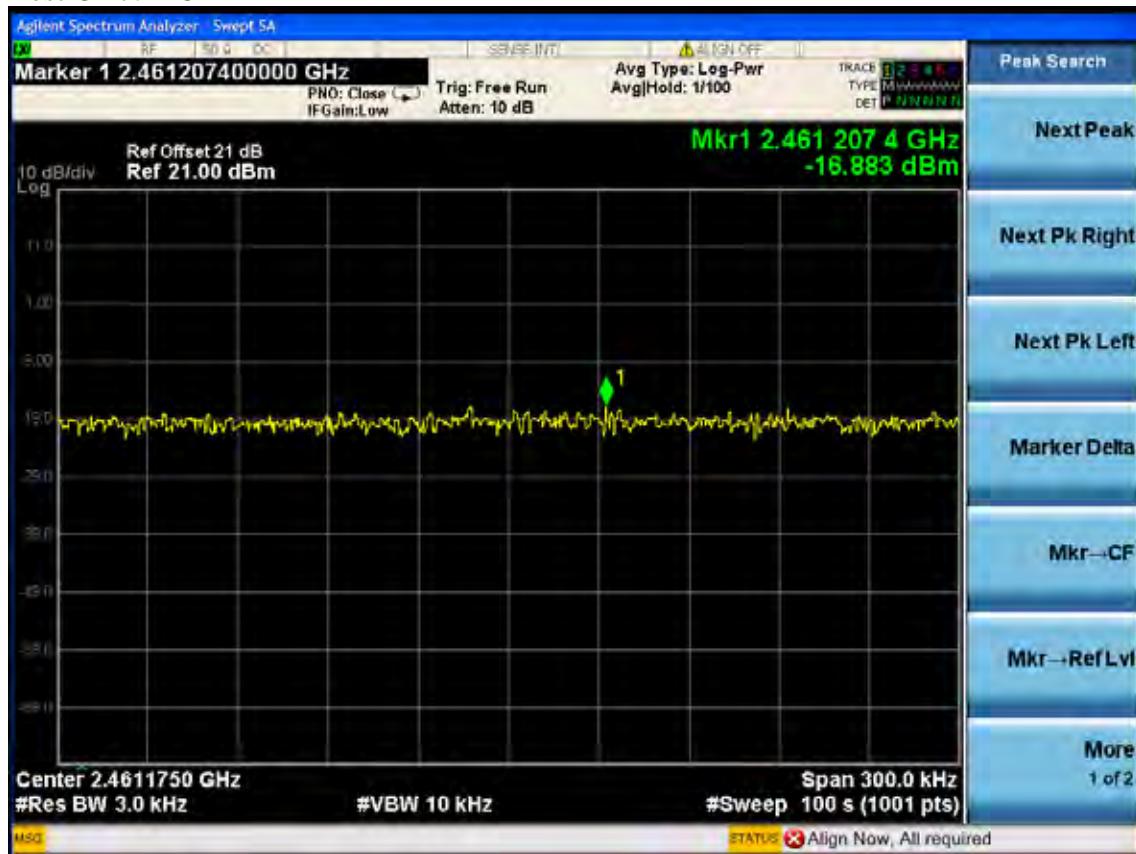
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



Chain 2:

Test Mode: IEEE 802.11b TX

Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



Test Mode: IEEE 802.11g TX

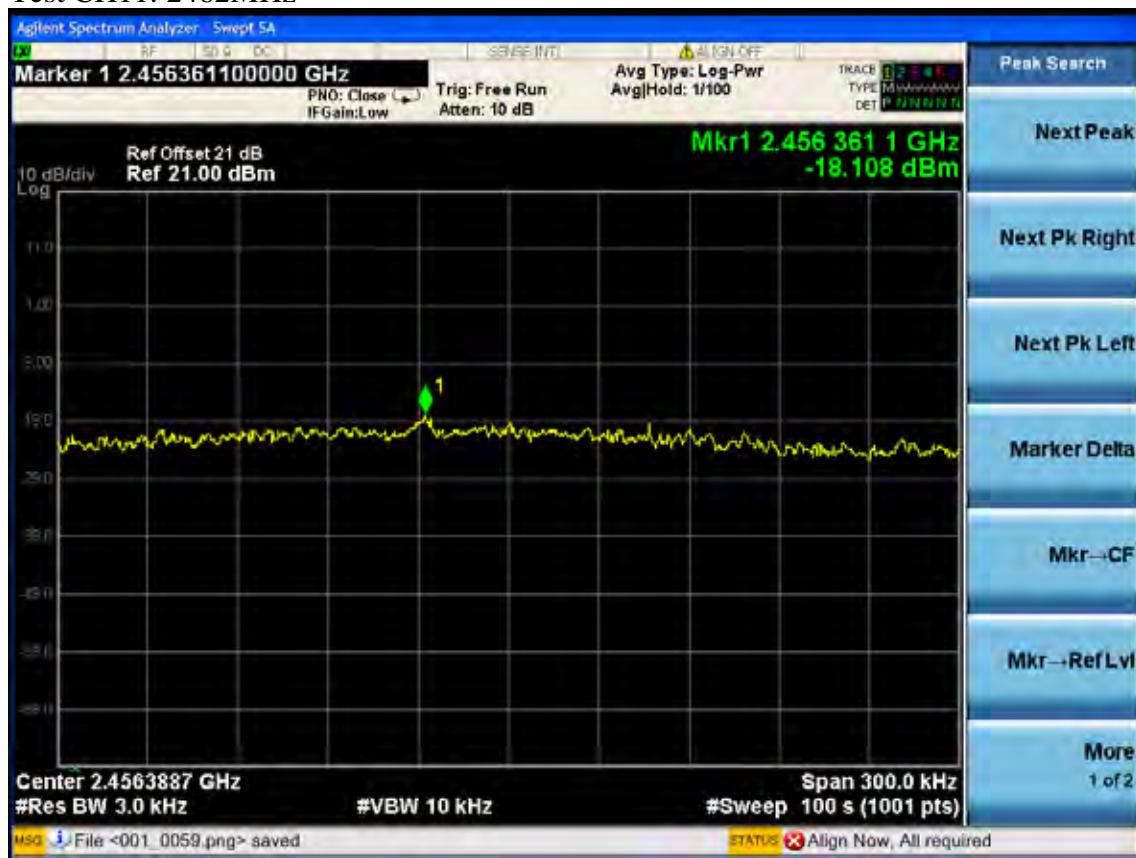
Test CH1: 2412MHz



Test CH6: 2437MHz

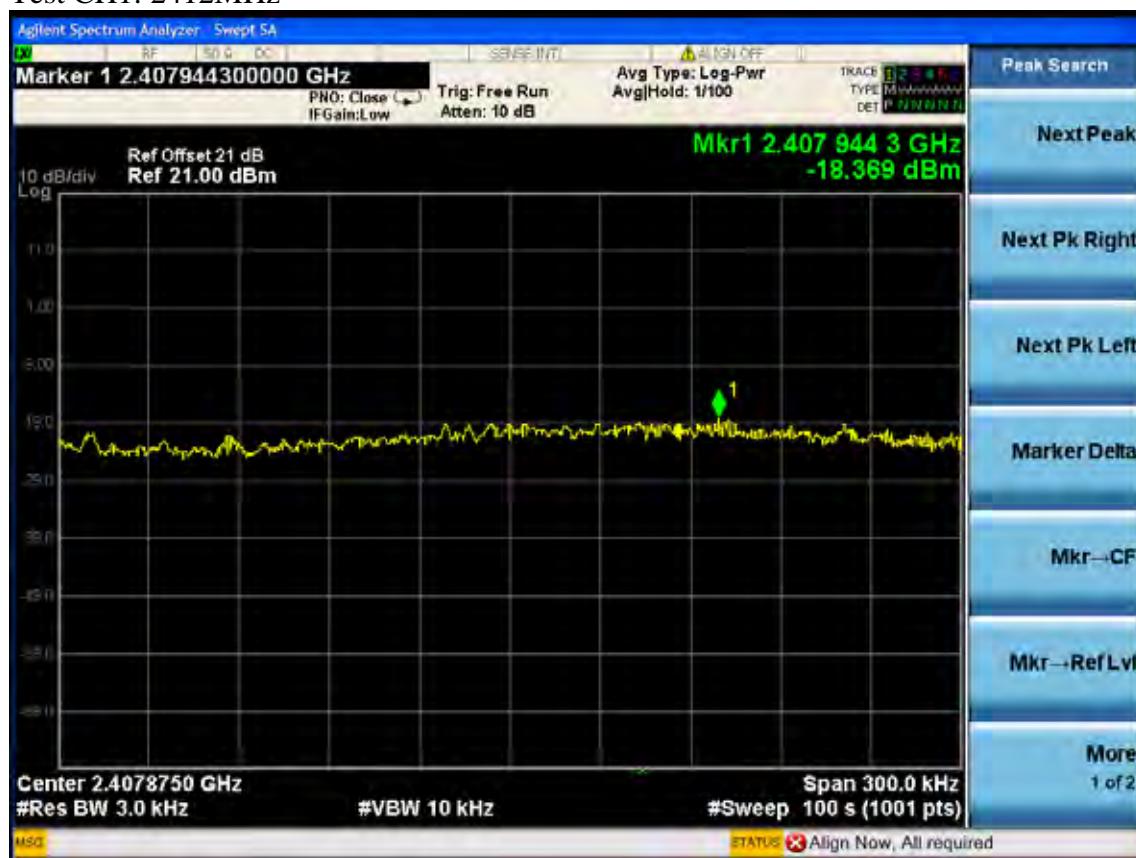


Test CH11: 2462MHz



Test Mode: IEEE 802.11n HT20 TX

Test CH1: 2412MHz



Test CH6: 2437MHz

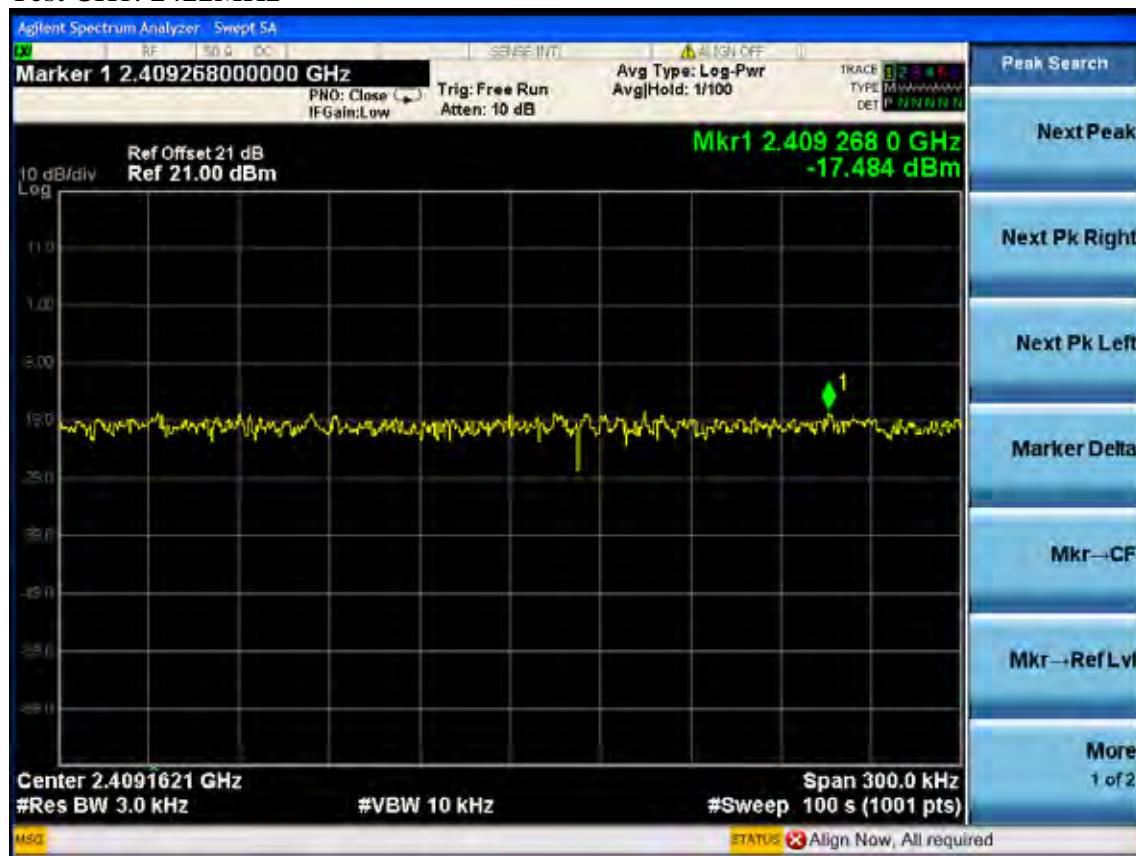


Test CH11: 2462MHz



Test Mode: IEEE 802.11n HT40 TX

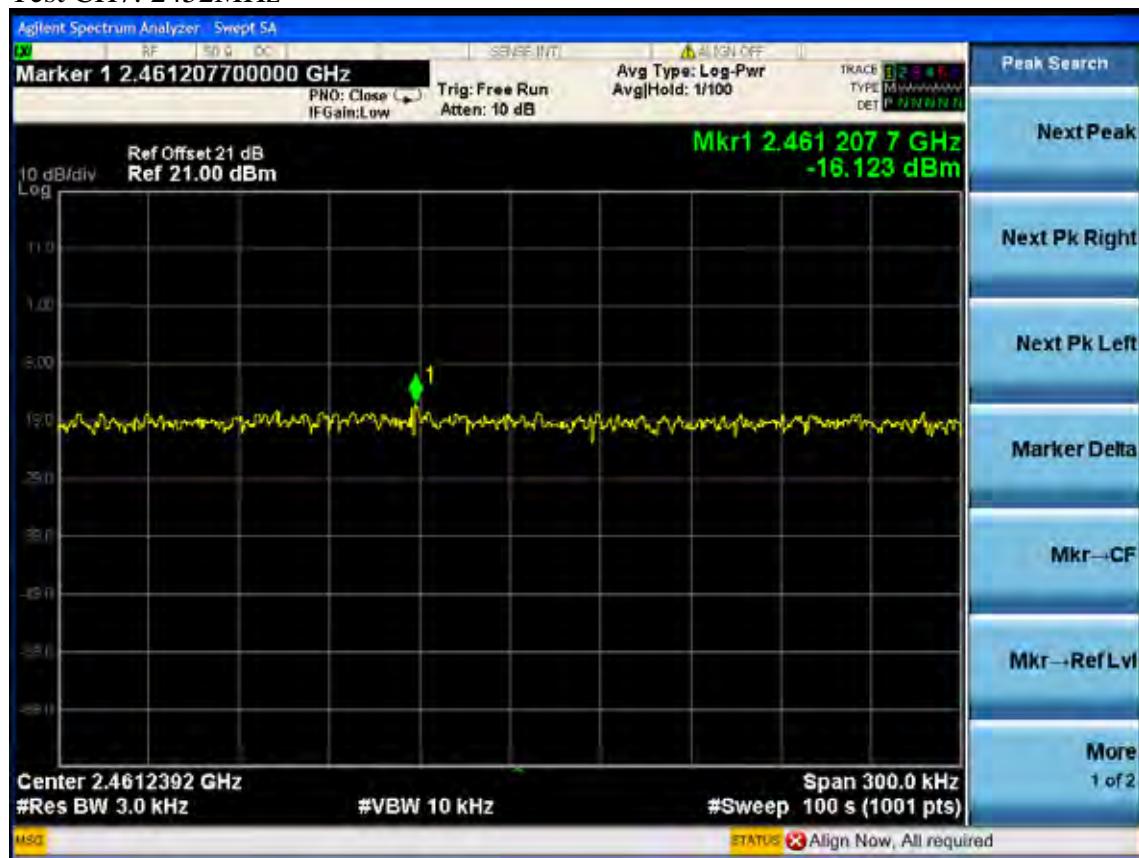
Test CH1: 2422MHz



Test CH4: 2437MHz



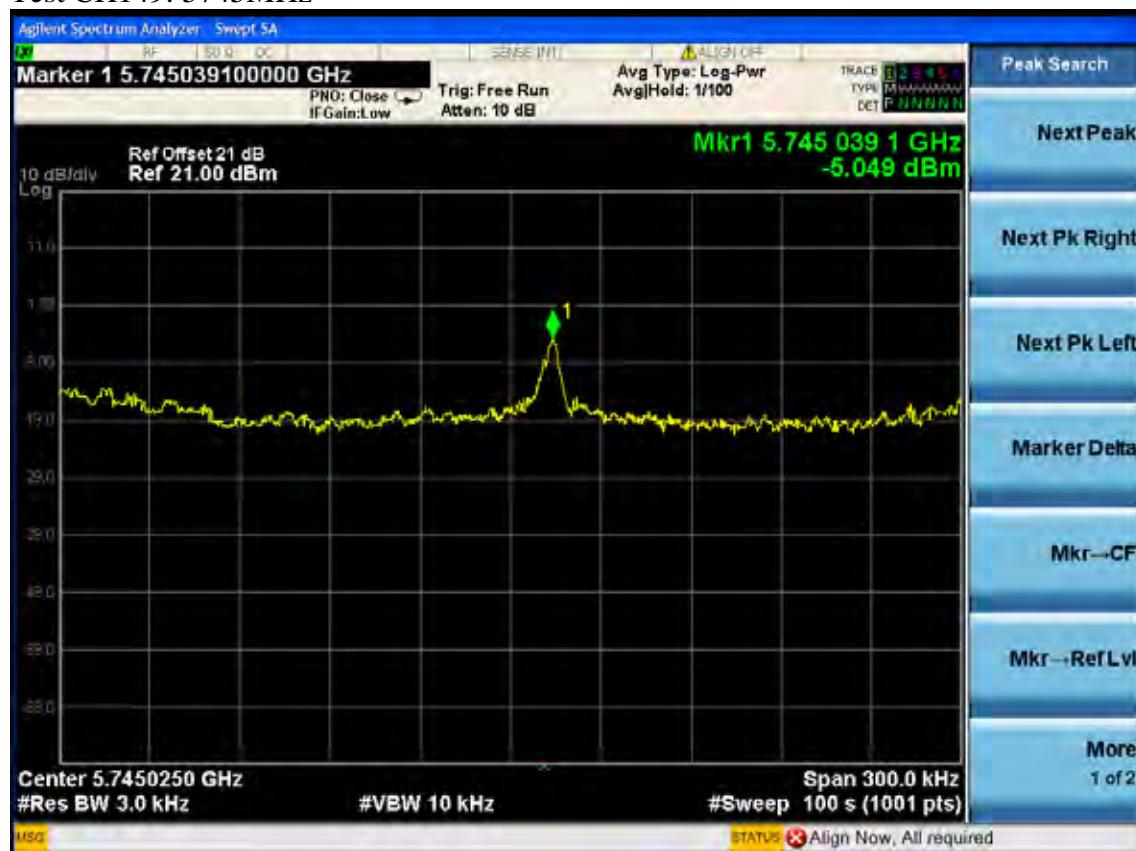
Test CH7: 2452MHz



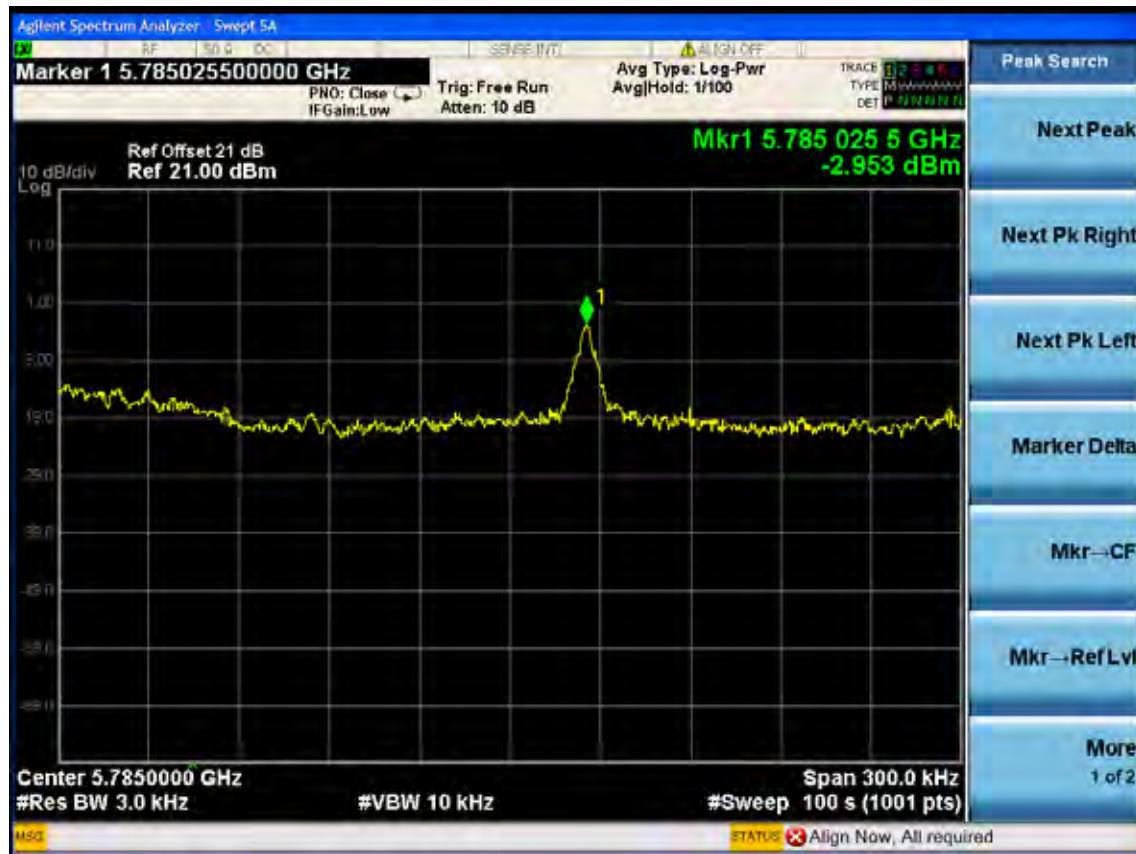
5.8G:
Chain 1:

Test Mode: IEEE 802.11a TX

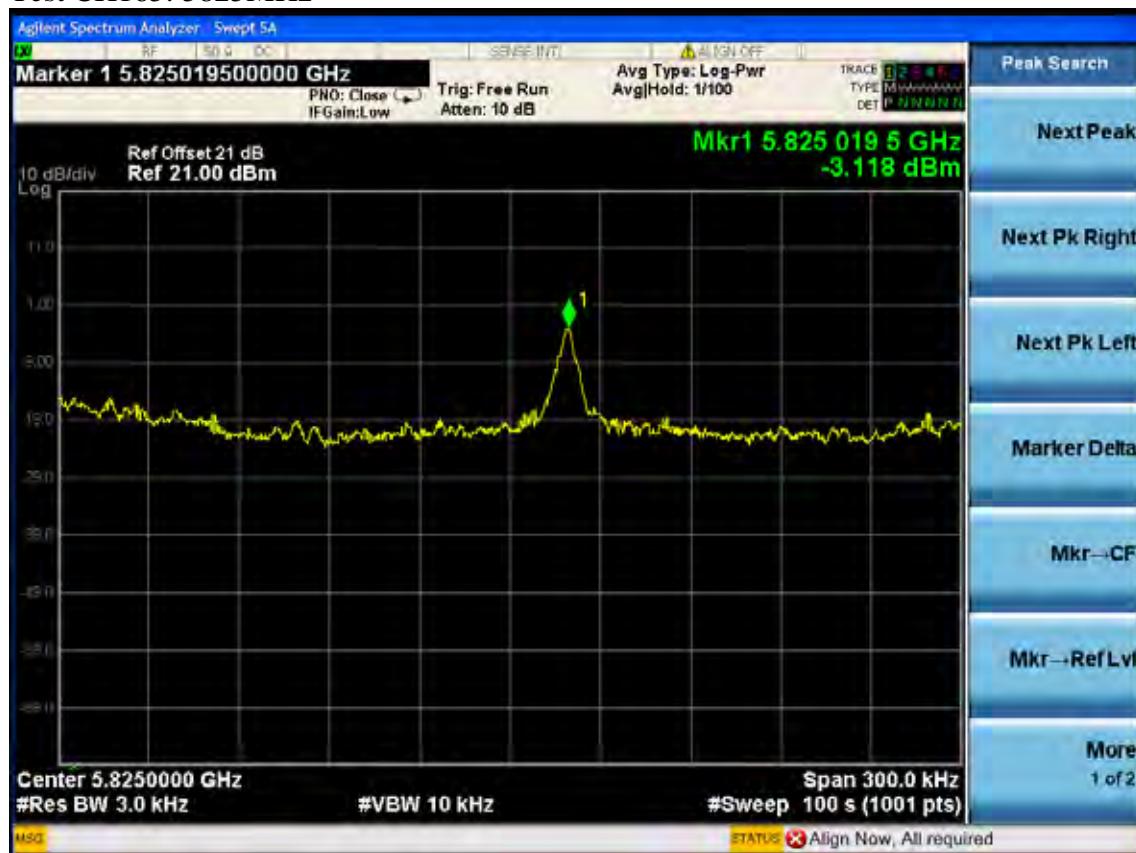
Test CH149: 5745MHz



Test CH157: 5785MHz

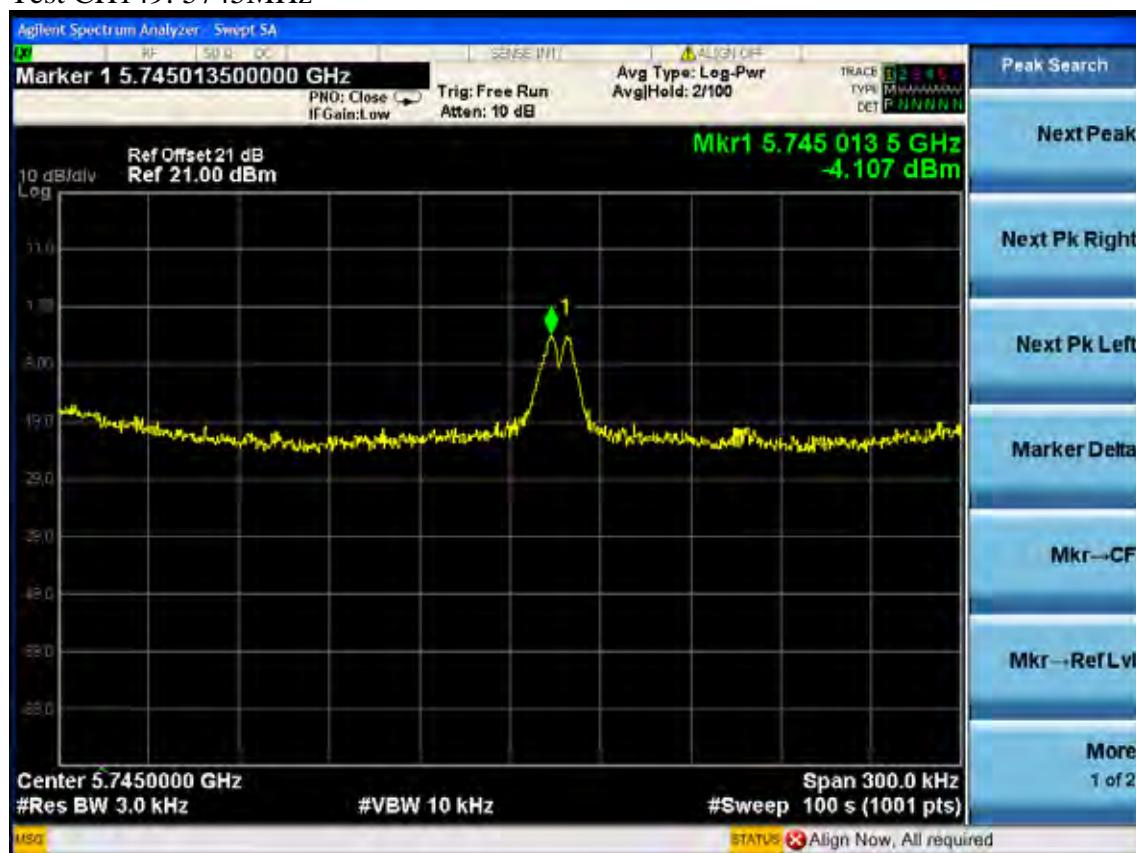


Test CH165: 5825MHz



Test Mode: IEEE 802.11n HT20 TX

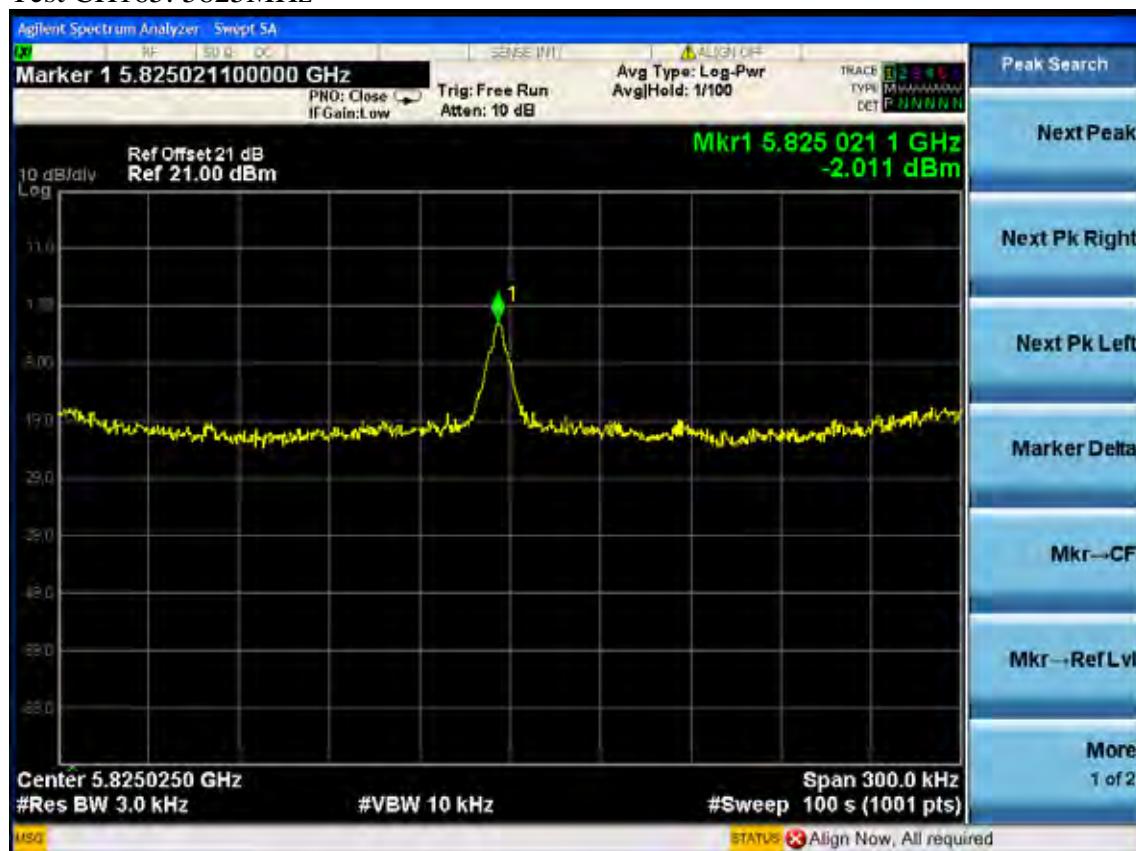
Test CH149: 5745MHz



Test CH157: 5785MHz

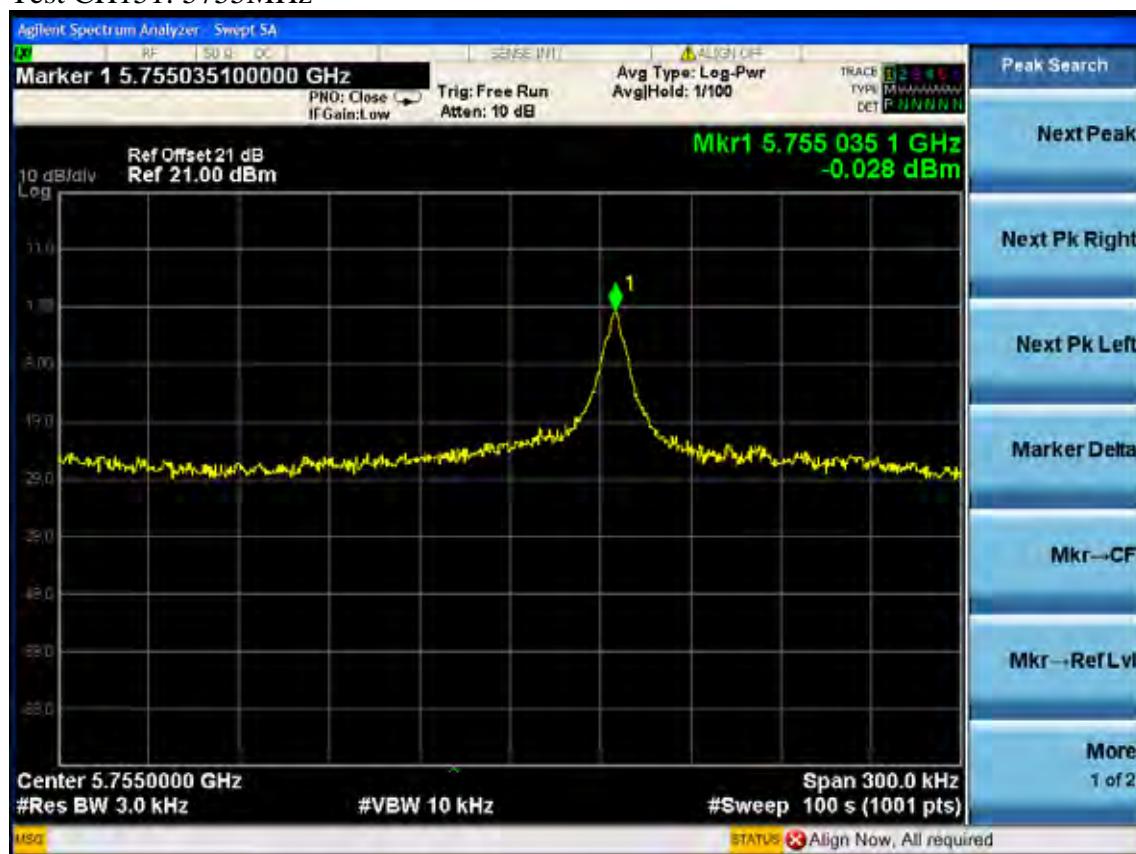


Test CH165: 5825MHz

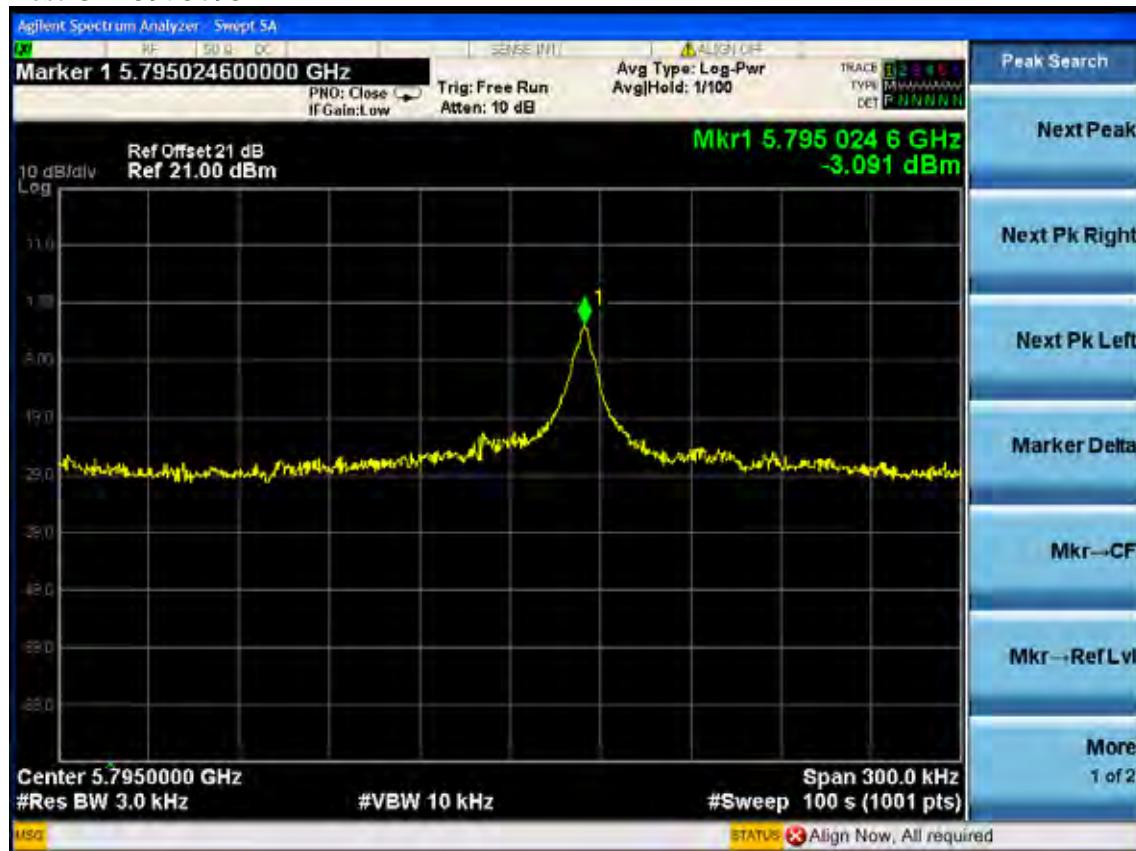


Test Mode: IEEE 802.11n HT40 TX

Test CH151: 5755MHz



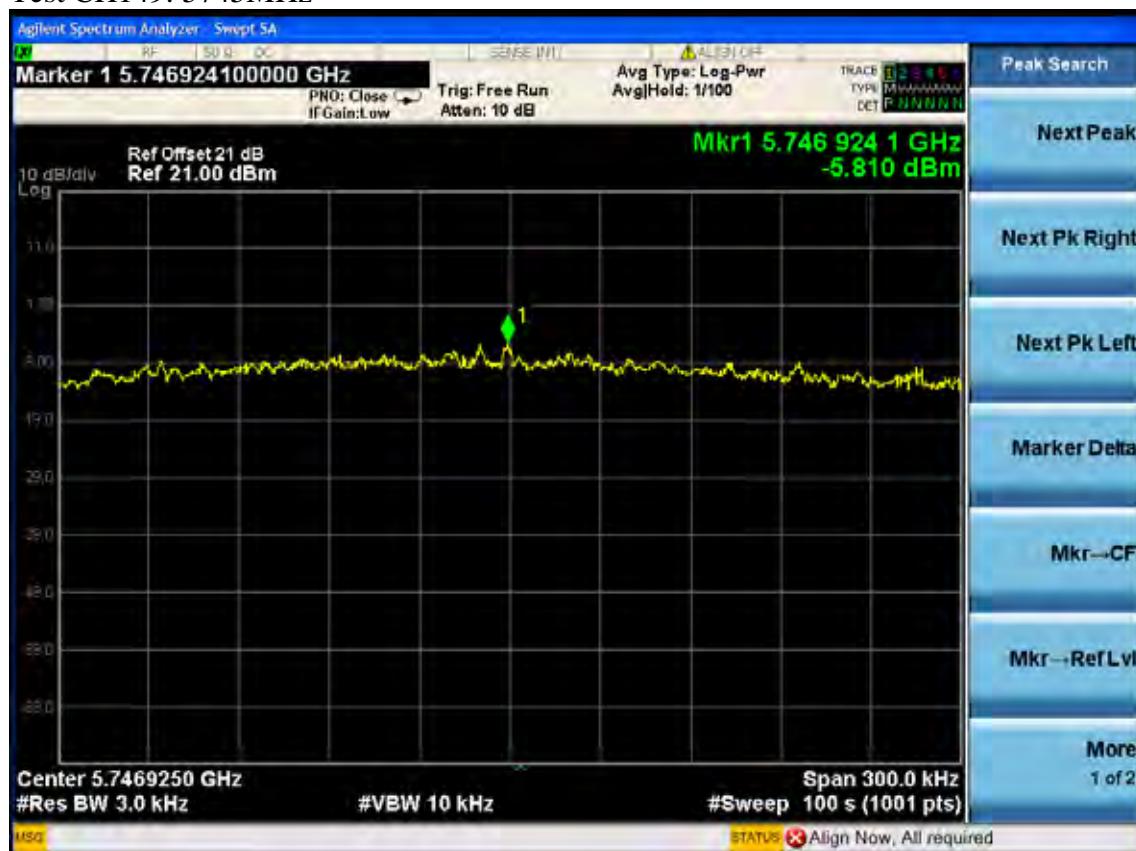
Test CH159: 5795MHz



Chain 2:

Test Mode: IEEE 802.11a TX

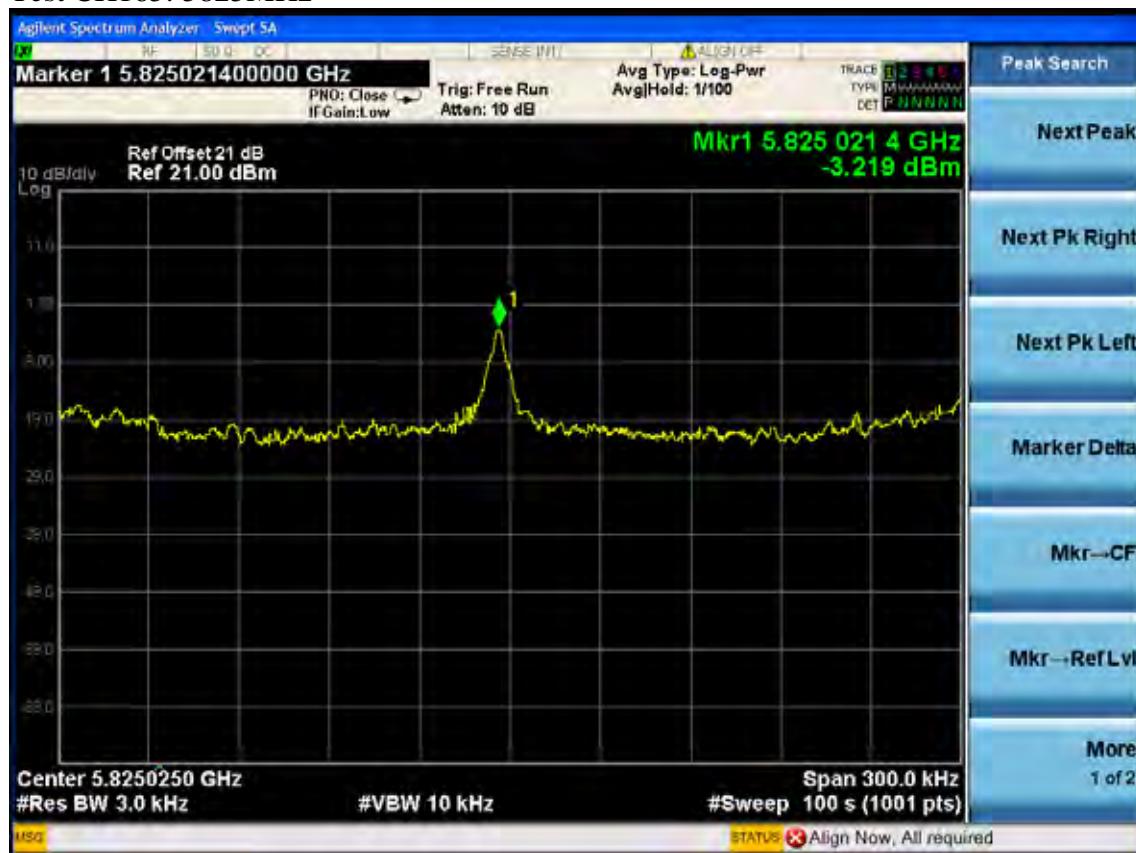
Test CH149: 5745MHz



Test CH157: 5785MHz



Test CH165: 5825MHz



Test Mode: IEEE 802.11n HT20 TX

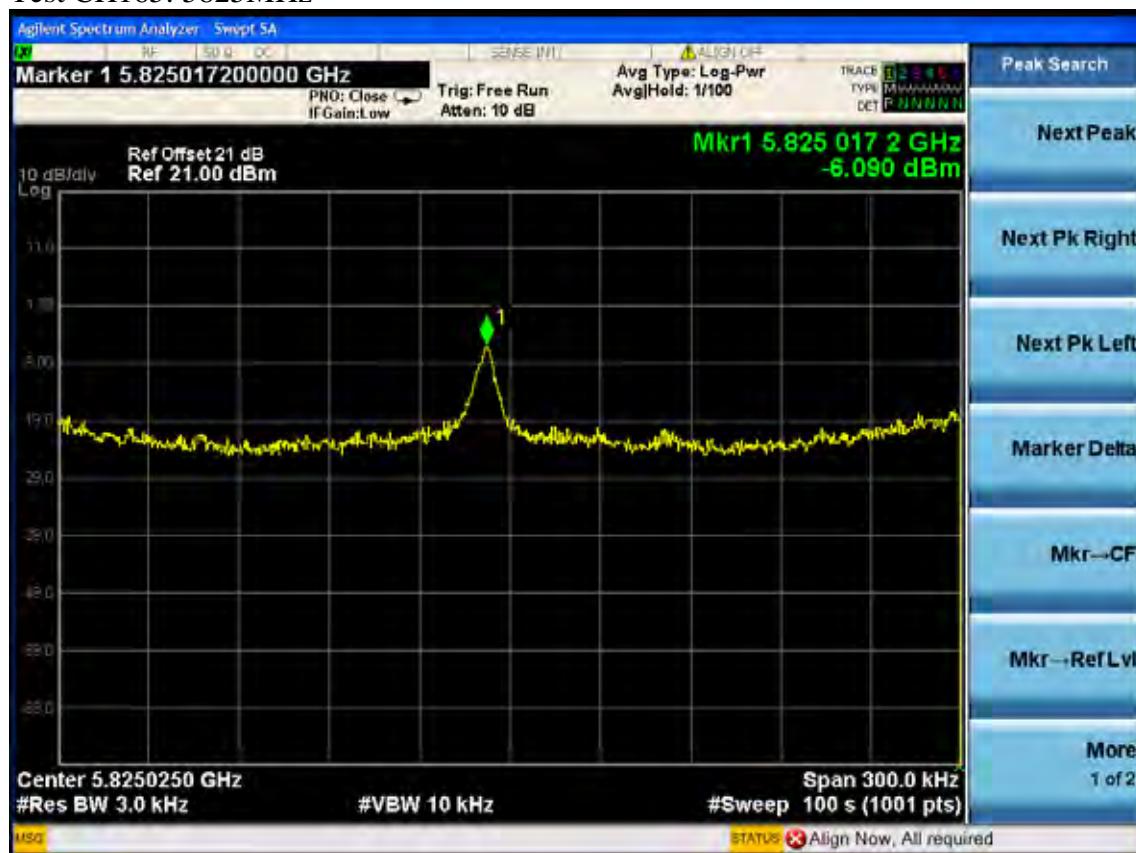
Test CH149: 5745MHz



Test CH157: 5785MHz

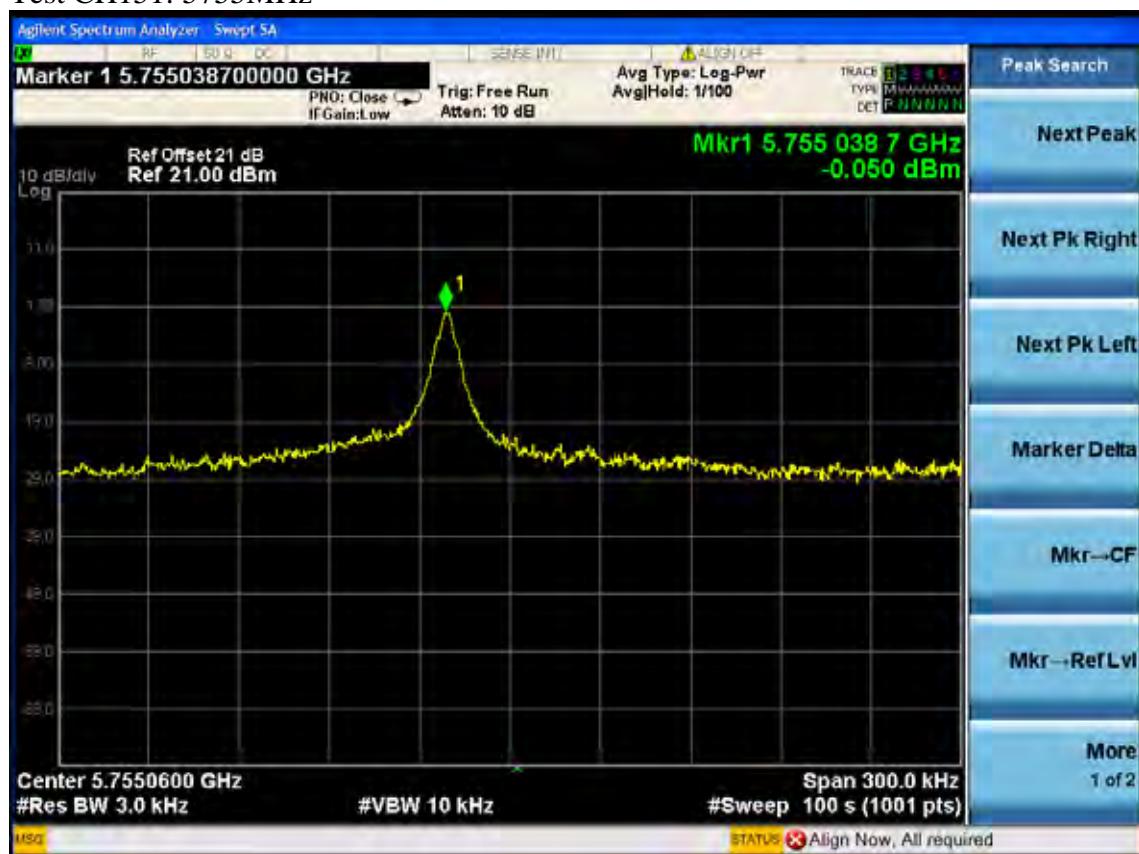


Test CH165: 5825MHz

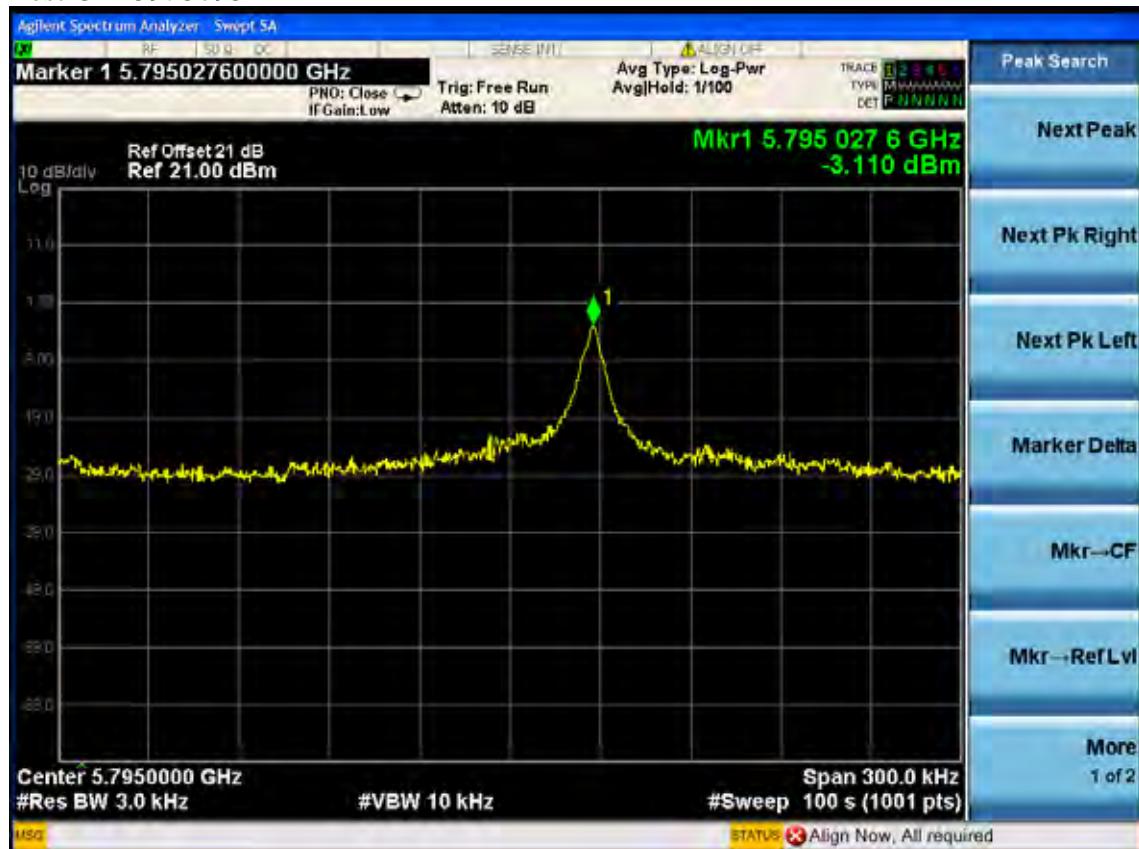


Test Mode: IEEE 802.11n HT40 TX

Test CH151: 5755MHz



Test CH159: 5795MHz



10.MPE ESTIMATION

10.1.Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
300MHz---1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Frequency(MHz)	Power density (mW/ cm ²)	Averaging time(minutes)
2412	1	30
2437	1	30
2462	1	30

Note: F= Frequency in MHz

10.2. Estimation Result

2.4GHz

EUT:A8n Super WiFi Base Station		
M/N:WA8011N-X		
Test date: 2014-07-28	Pressure: 101.3±1.0 kpa	Humidity: 49.6±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.9±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 14dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	16.20	41.69	14	25.12	0.2084
	CH6	2437	16.06	40.36	14	25.12	0.2018
	CH11	2462	16.16	41.30	14	25.12	0.2065
11g	CH1	2412	16.05	40.27	14	25.12	0.2013
	CH6	2437	16.20	41.69	14	25.12	0.2084
	CH11	2462	15.92	39.08	14	25.12	0.1954
11n HT20	CH1	2412	16.00	39.81	14	25.12	0.1990
	CH6	2437	16.11	40.83	14	25.12	0.2042
	CH11	2462	16.06	40.36	14	25.12	0.2018
11n HT40	CH1	2422	16.12	40.93	14	25.12	0.2046
	CH4	2437	16.36	43.25	14	25.12	0.2162
	CH7	2452	16.13	41.02	14	25.12	0.2051

5.8GHz

EUT:A8n Super WiFi Base Station		
M/N:WA8011N-X		
Test date: 2014-07-28	Pressure: 101.2±1.0 kpa	Humidity: 49.7±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.6±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB			Antenna Gain: 20dBi		
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	CH149	5745	15.02	31.77	20	100.00	0.6323
	CH157	5785	14.95	31.26	20	100.00	0.6222
	CH165	5825	14.94	31.19	20	100.00	0.6208
11n HT20	CH149	5745	14.66	29.24	20	100.00	0.5820
	CH157	5785	14.67	29.31	20	100.00	0.5834
	CH165	5825	14.70	29.51	20	100.00	0.5874
11n HT40	CH151	5755	15.03	31.84	20	100.00	0.6338
	CH159	5795	15.17	32.89	20	100.00	0.6546

11. ANTENNA REQUIREMENT

11.1. 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.

11.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are Built-in, external antenna 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 for 2.4GHz is 14dBi, and the maximum peak gain of the transmit antenna for 5.8GHz is 20dBi..



12.DEVIATION TO TEST SPECIFICATIONS

[NONE]