6. Peak Excursion

6.1. Test Equipment

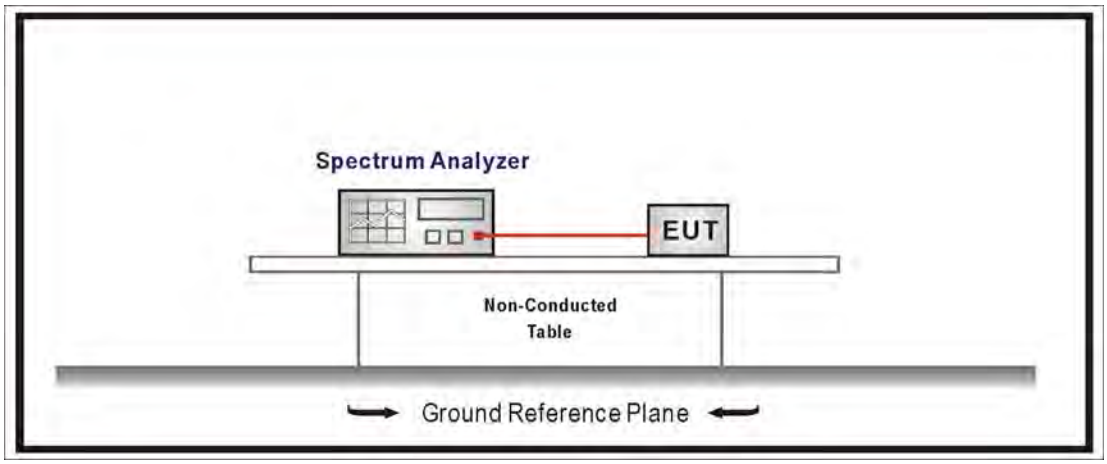
The following test equipments are used during the radiated emission tests:

Peak Excursion / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2014/08/05

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup



6.3. Limits

The ratio of the peak excursion of the modulation envelope (measured suing a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

6.4. Test Procedure

The EUT was setup to ANSI C63.4, 2009; tested to U-NII test procedure of KDB 789033 for compliance to FCC 47CFR Subpart E requirements.

1st Trace:

Set RBW = 1MHz, VBW = 3MHz with peak detector and max-hold settings.

2nd Trace:

Set RBW = 1MHz, VBW = 3MHz with RMS detector and trace average 100 traces in power averaging mode.

6.5. Uncertainty

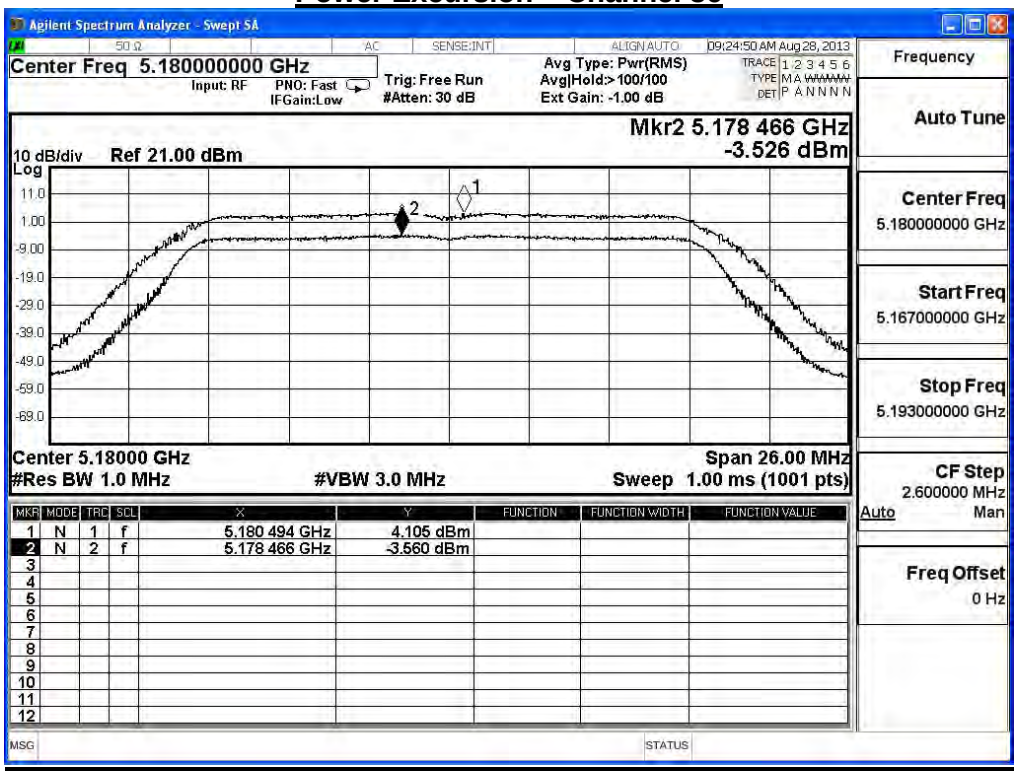
The measurement uncertainty is defined as ± 1.27 dB

6.6. Test Result

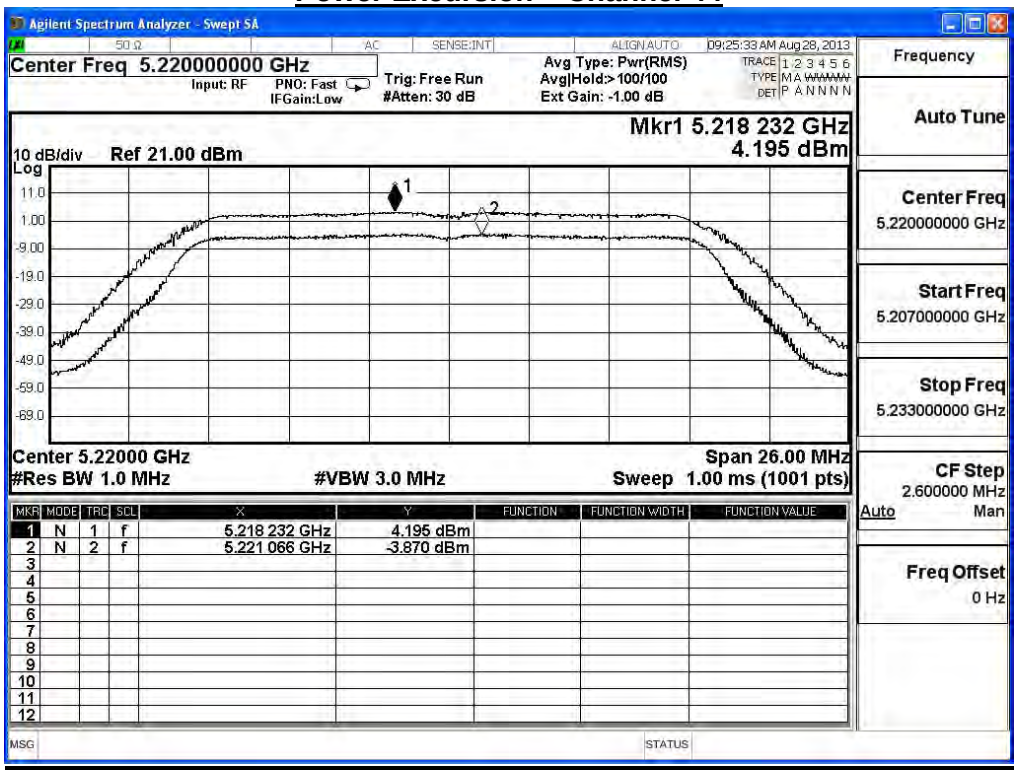
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

IEEE 802.11a (ANT0)				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
36	5180	7.67	≦13	Pass
44	5220	8.07	≦13	Pass
48	5240	7.59	≦13	Pass

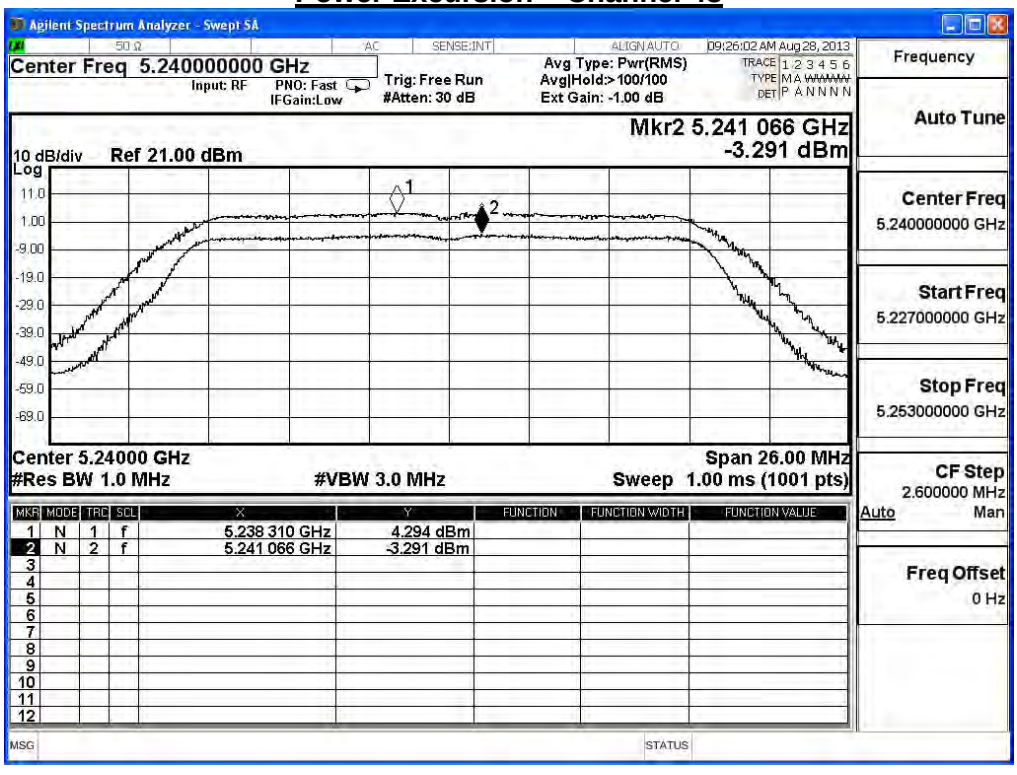
Power Excursion – Channel 36



Power Excursion – Channel 44



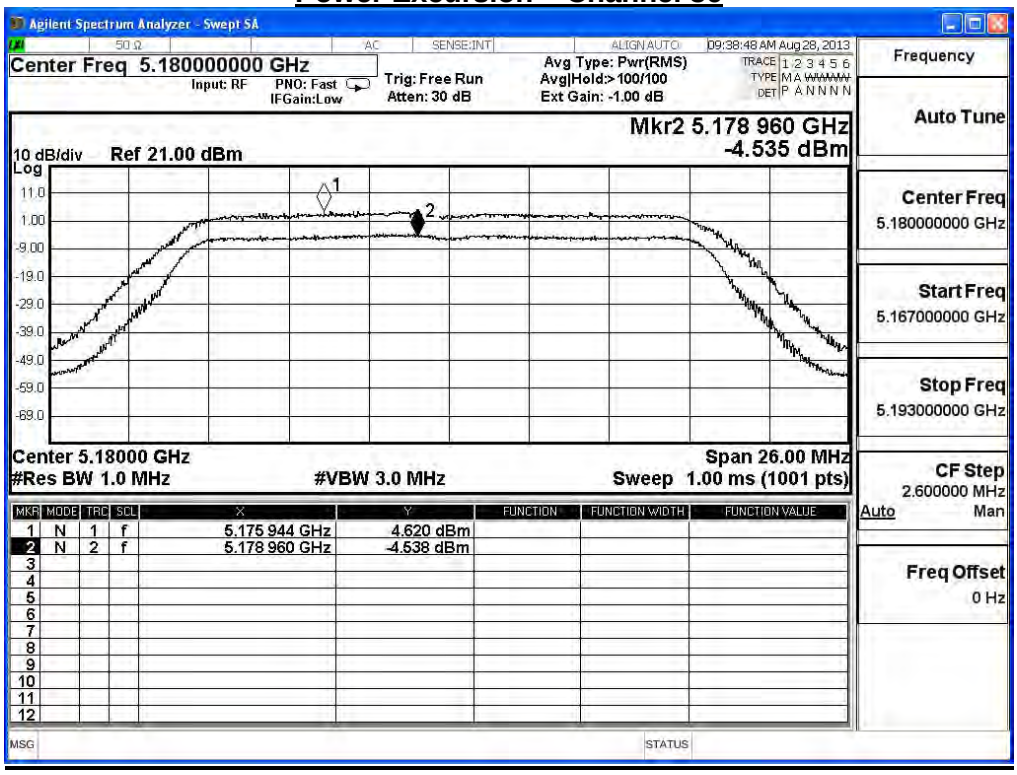
Power Excursion – Channel 48



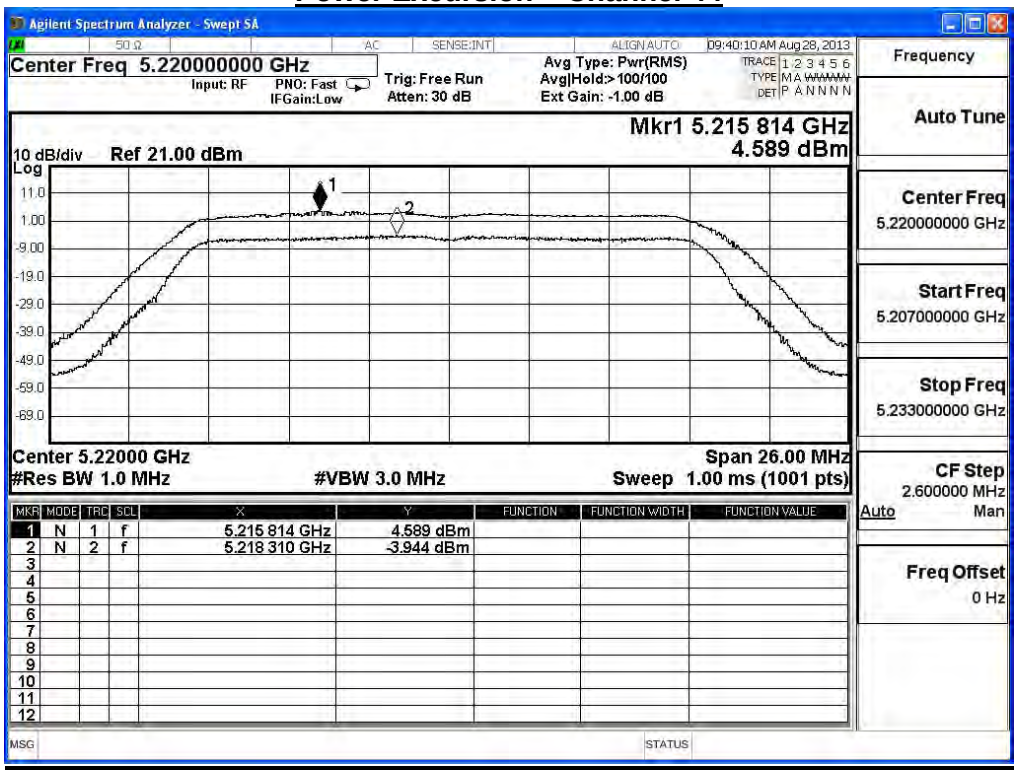
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

IEEE 802.11a (ANT1)				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
36	5180	9.16	≦13	Pass
44	5220	8.53	≦13	Pass
48	5240	8.53	≦13	Pass

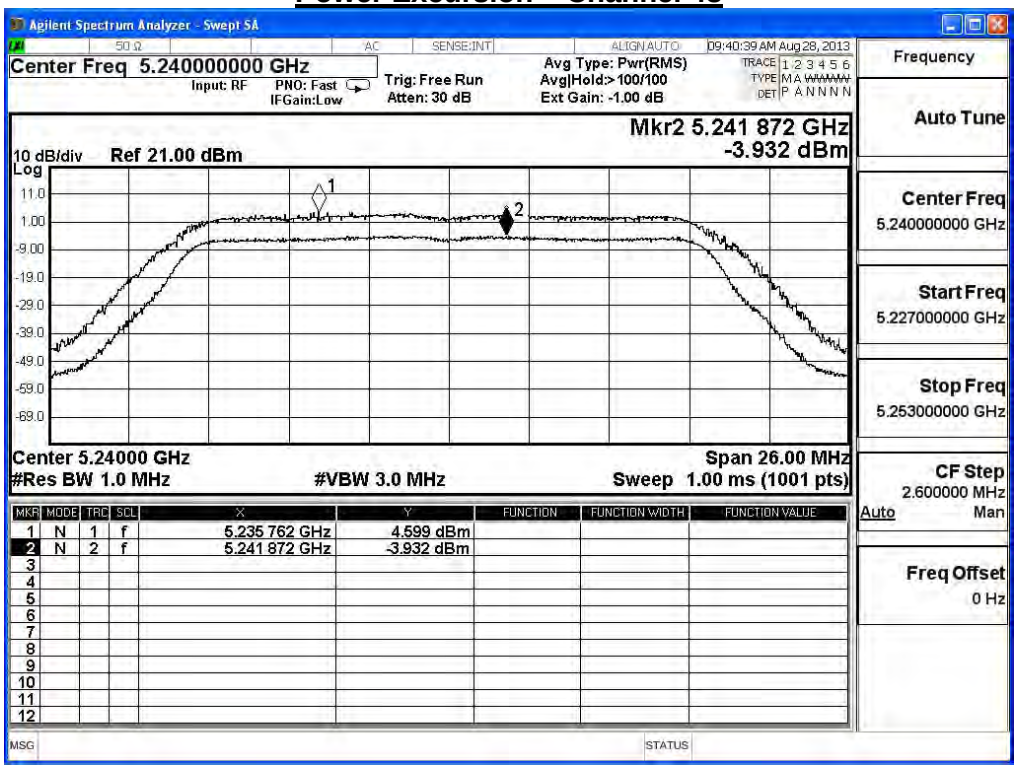
Power Excursion – Channel 36



Power Excursion – Channel 44



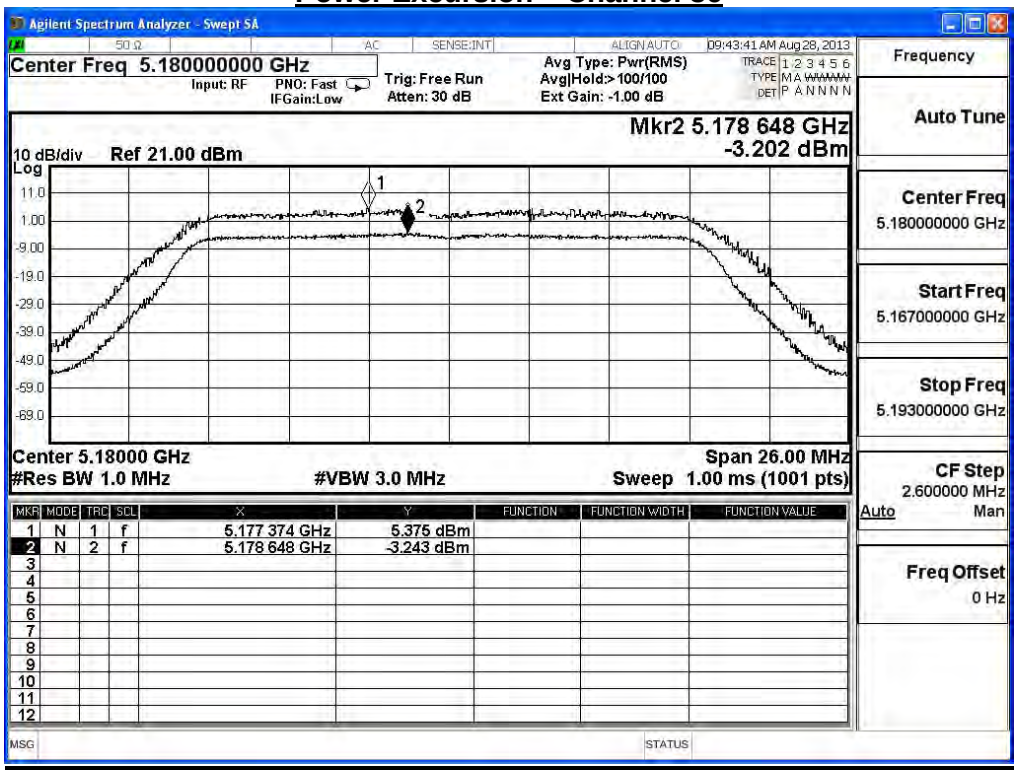
Power Excursion – Channel 48



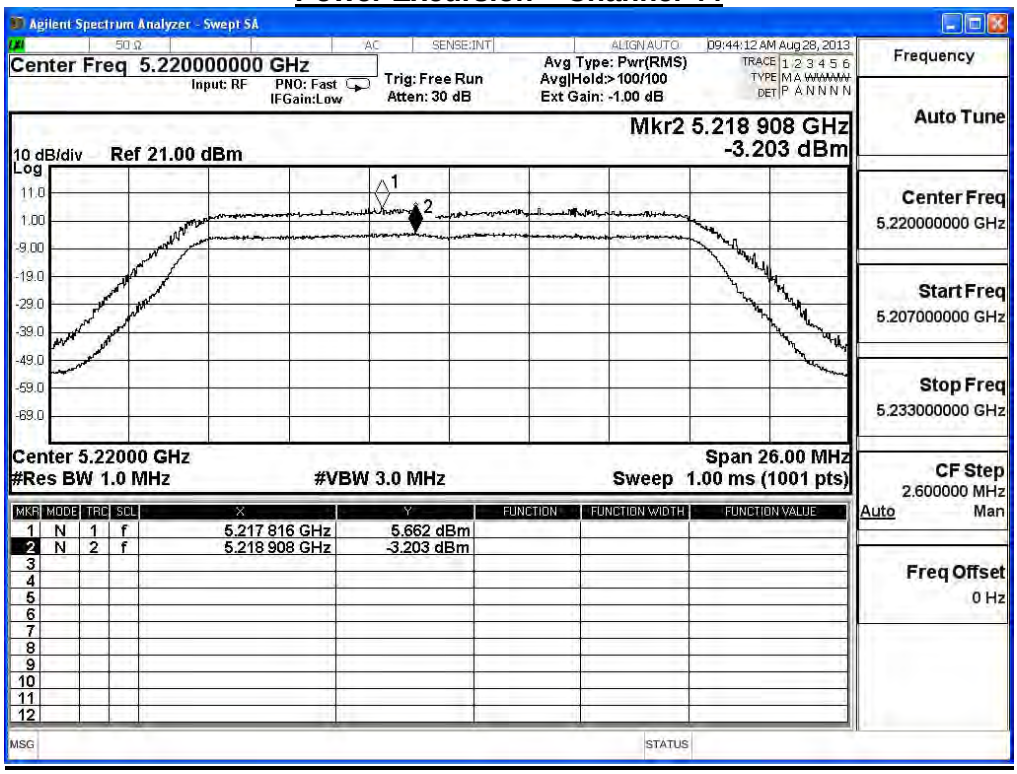
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

IEEE 802.11a (ANT2)				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
36	5180	8.62	≦13	Pass
44	5220	8.66	≦13	Pass
48	5240	9.12	≦13	Pass

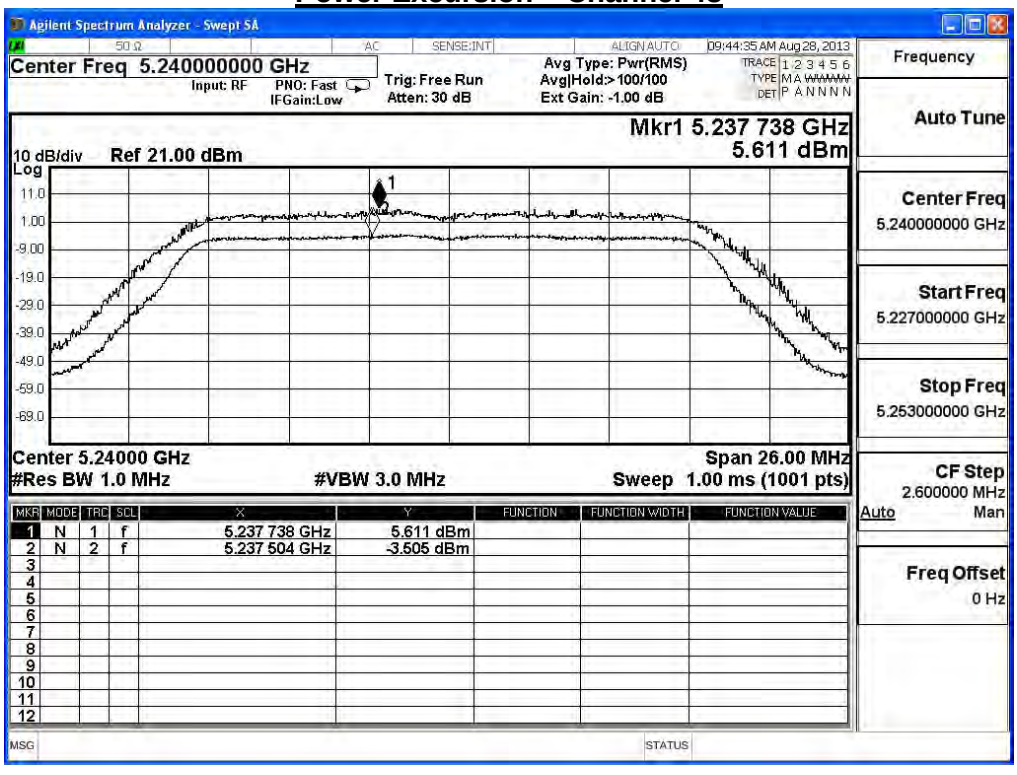
Power Excursion – Channel 36



Power Excursion – Channel 44



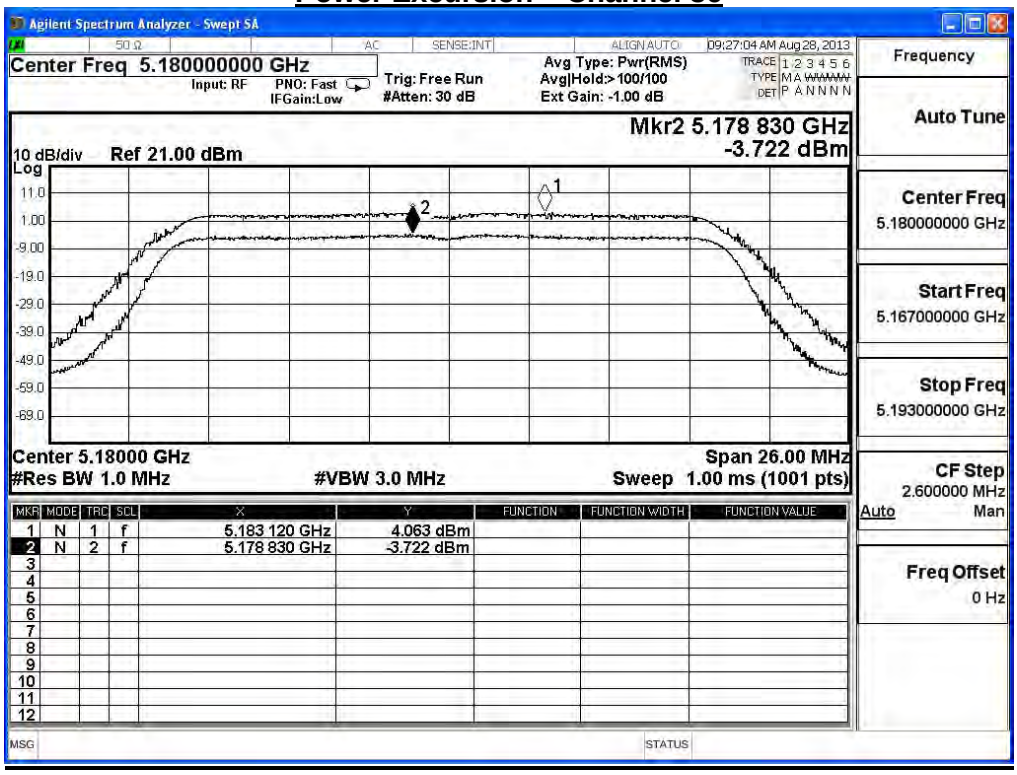
Power Excursion – Channel 48



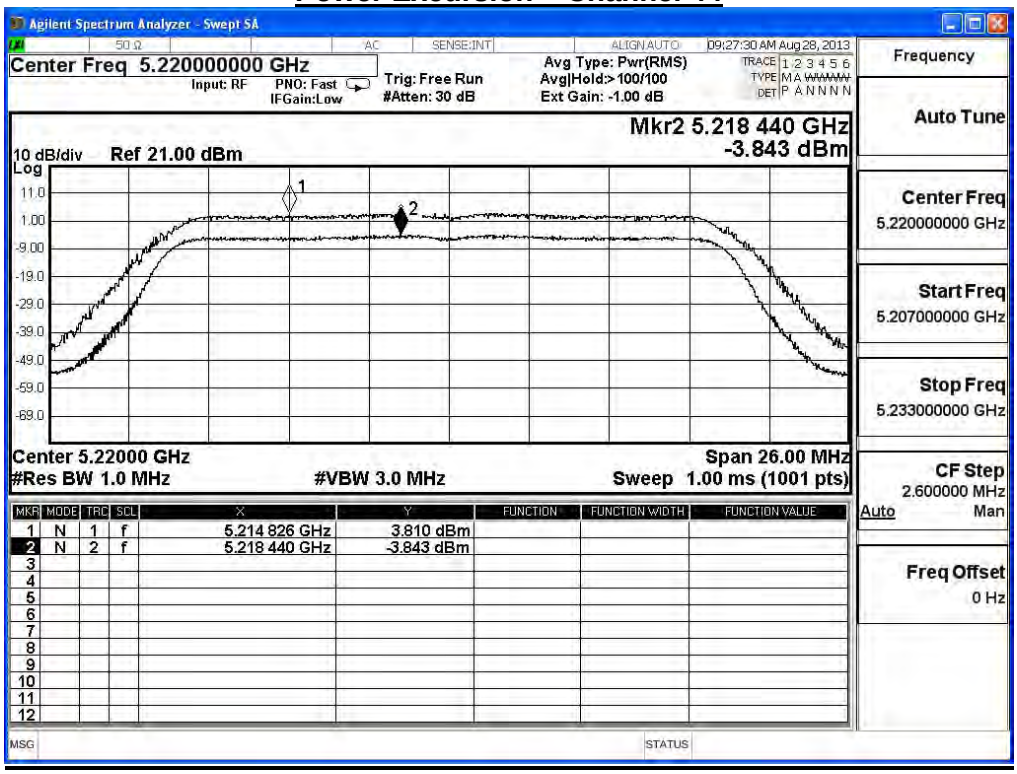
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

IEEE 802.11n_20M(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
36	5180	7.79	≦13	Pass
44	5220	7.65	≦13	Pass
48	5240	8.65	≦13	Pass

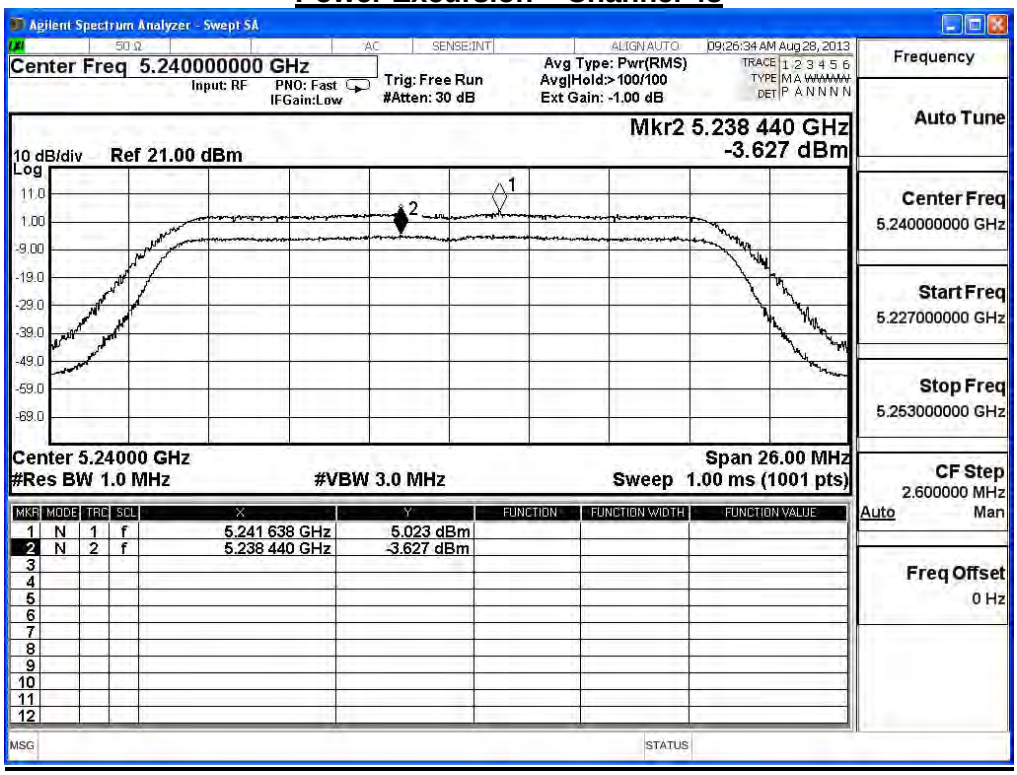
Power Excursion – Channel 36



Power Excursion – Channel 44



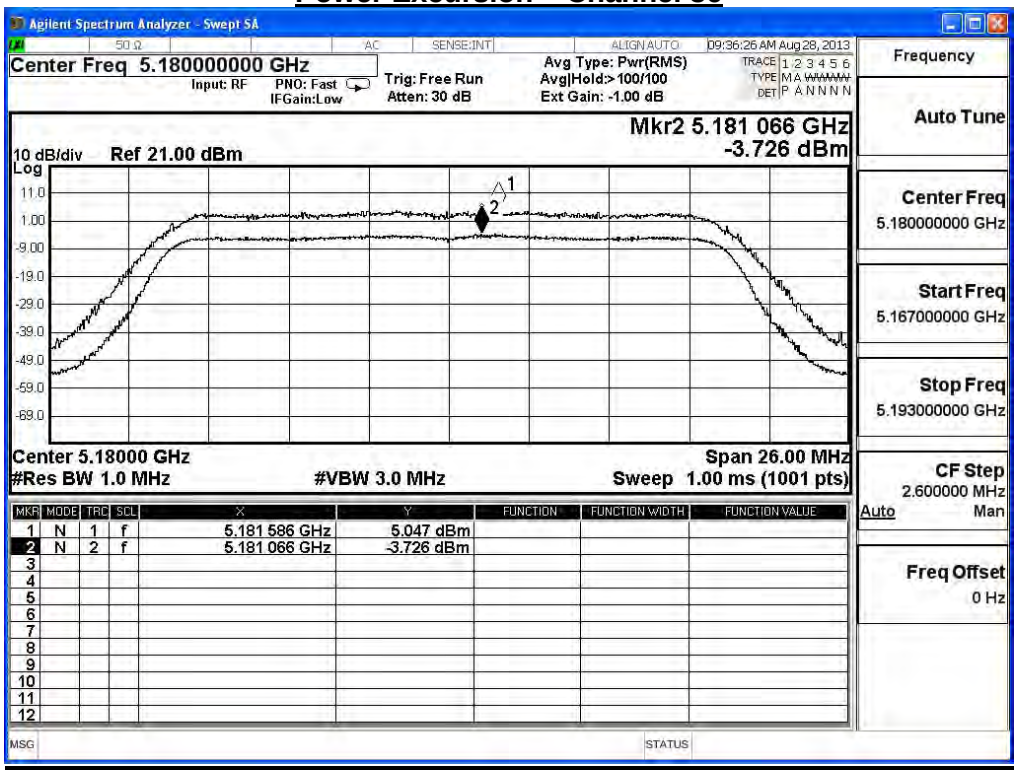
Power Excursion – Channel 48



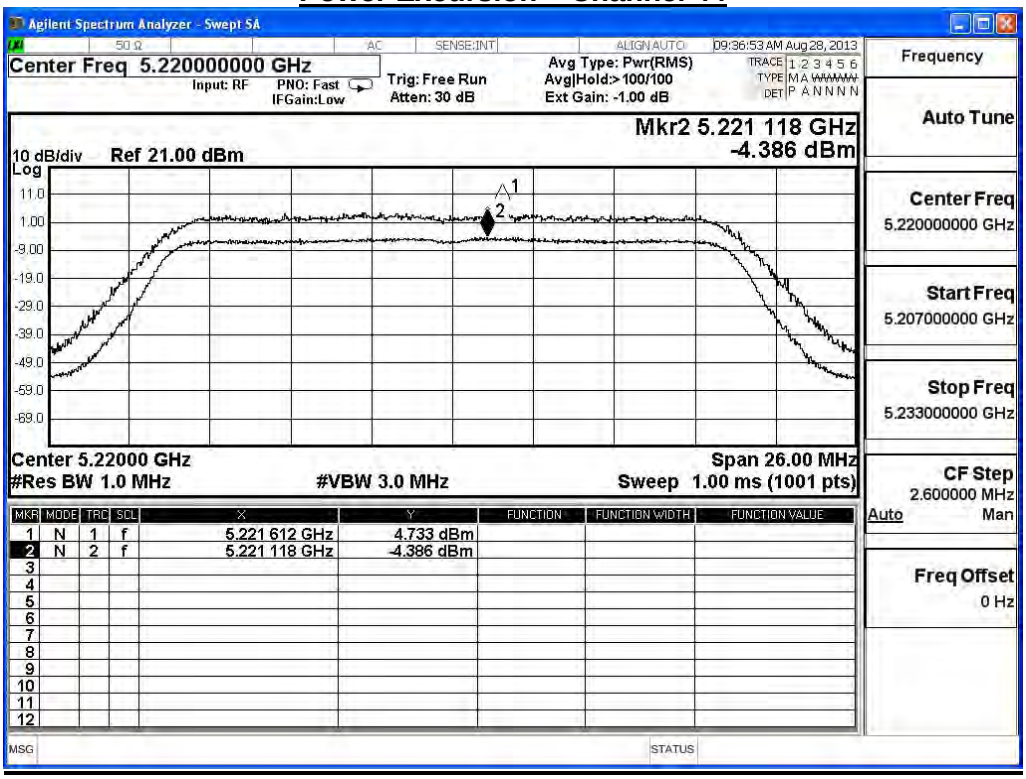
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

IEEE 802.11n_20M(ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
36	5180	8.77	≦13	Pass
44	5220	9.12	≦13	Pass
48	5240	8.56	≦13	Pass

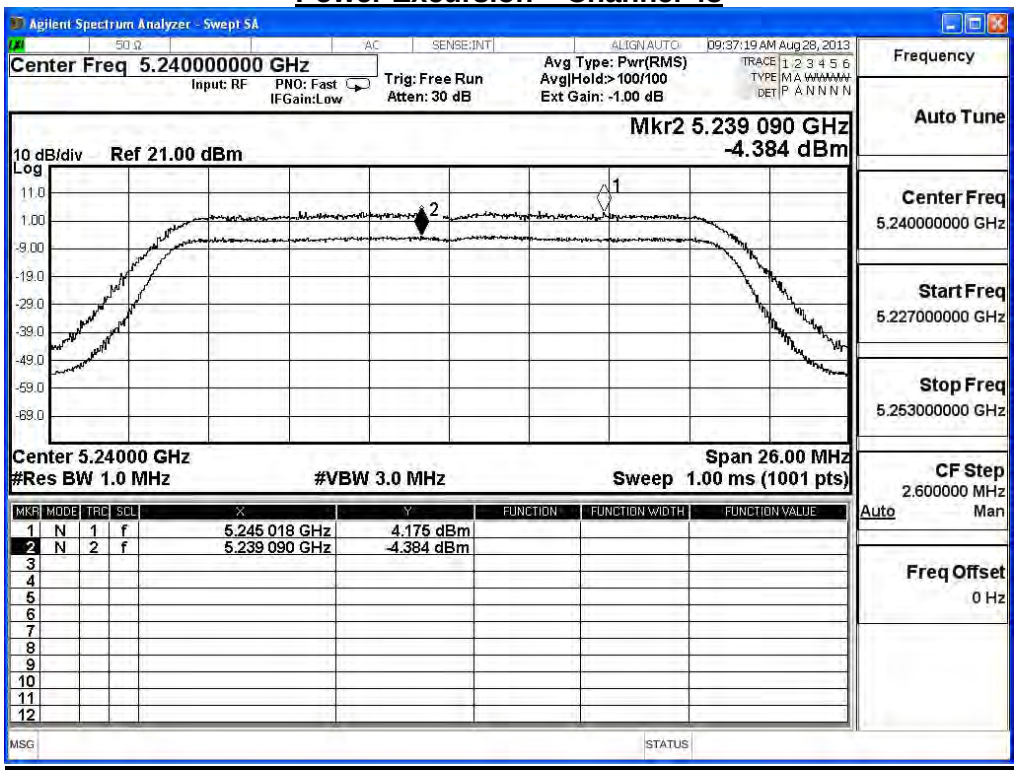
Power Excursion – Channel 36



Power Excursion – Channel 44



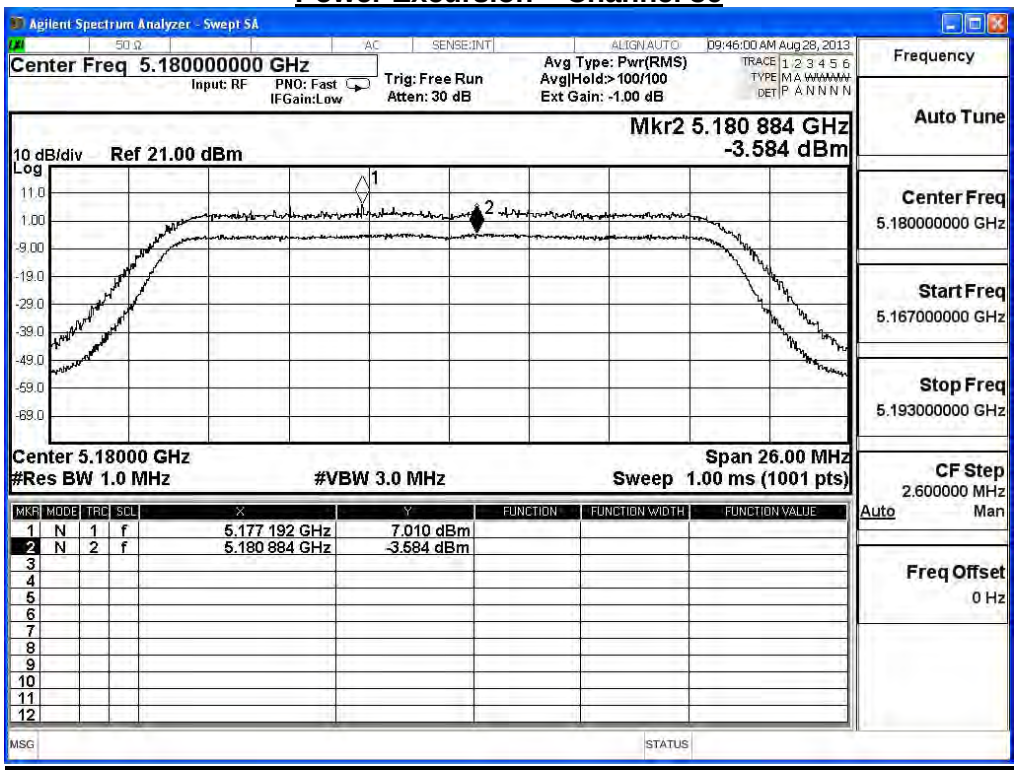
Power Excursion – Channel 48



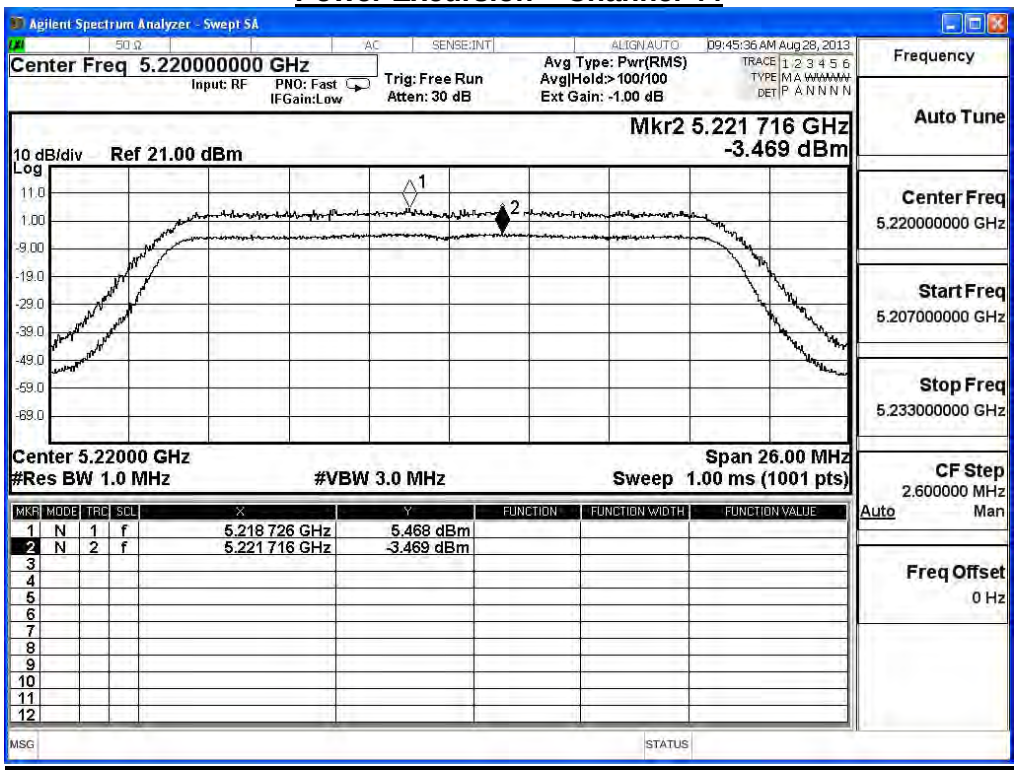
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

IEEE 802.11n_20M(ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
36	5180	10.59	≦13	Pass
44	5220	8.94	≦13	Pass
48	5240	9.63	≦13	Pass

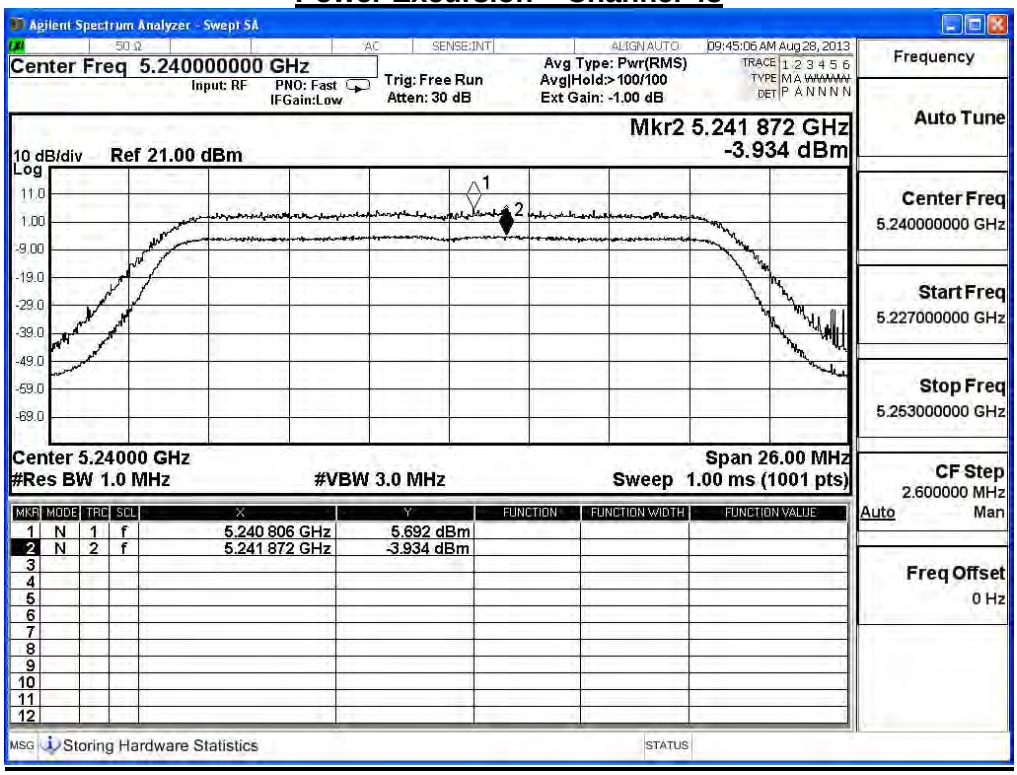
Power Excursion – Channel 36



Power Excursion – Channel 44



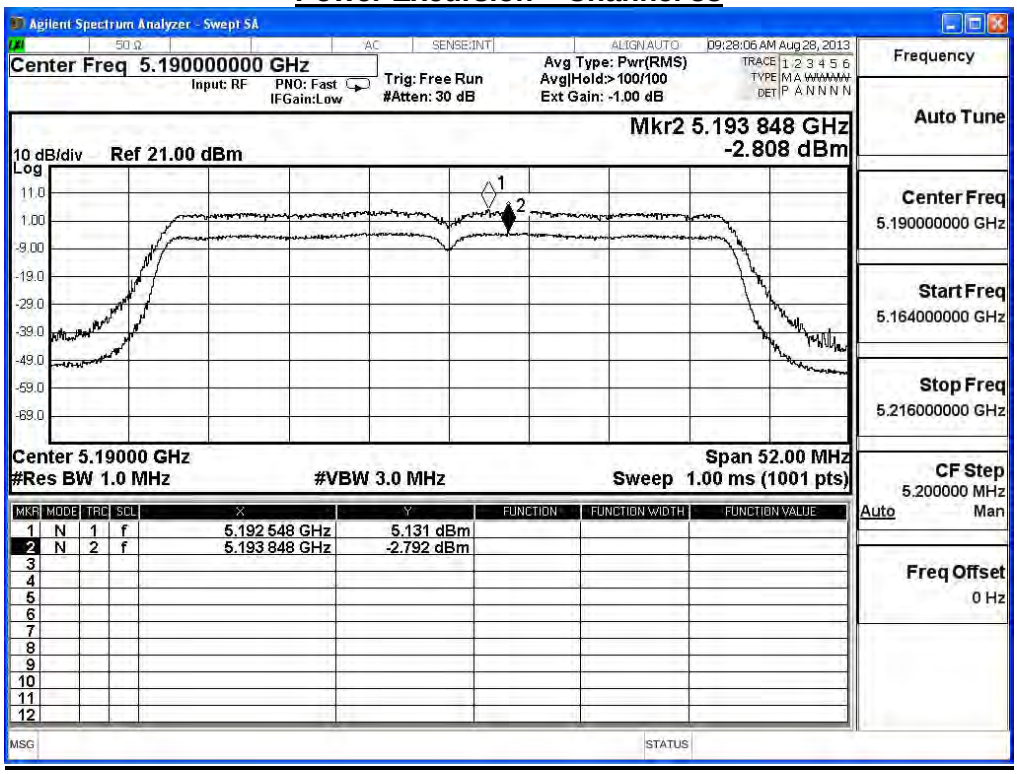
Power Excursion – Channel 48



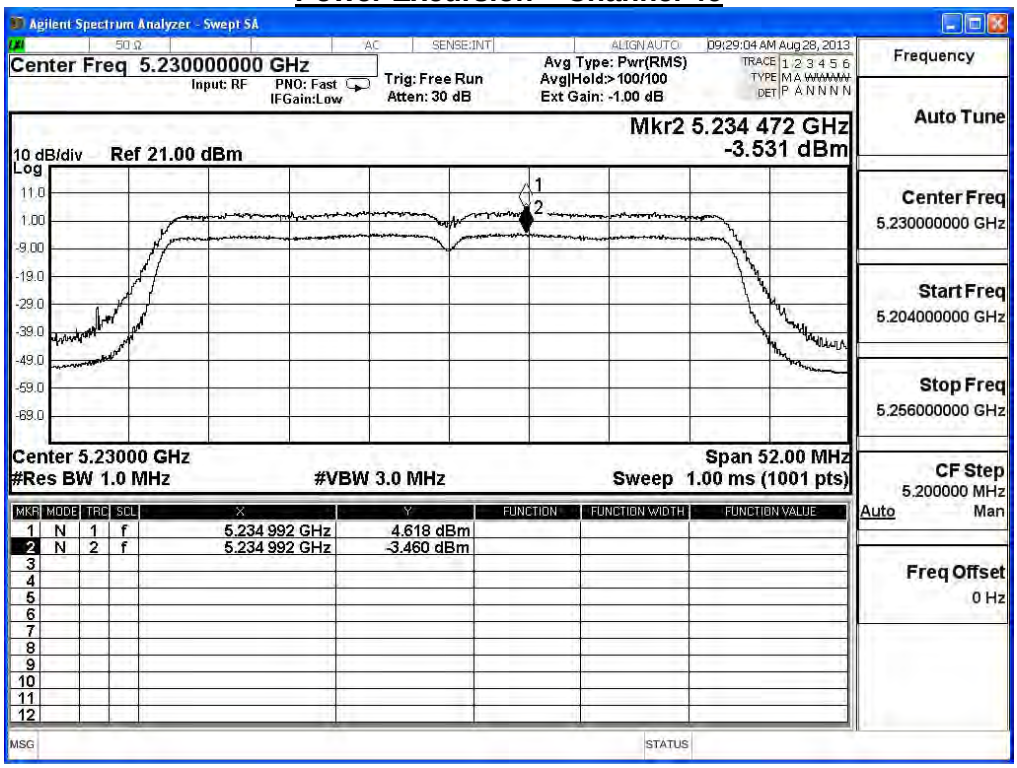
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

IEEE 802.11n_40M(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
38	5190	7.92	≦13	Pass
46	5230	8.60	≦13	Pass

Power Excursion – Channel 38



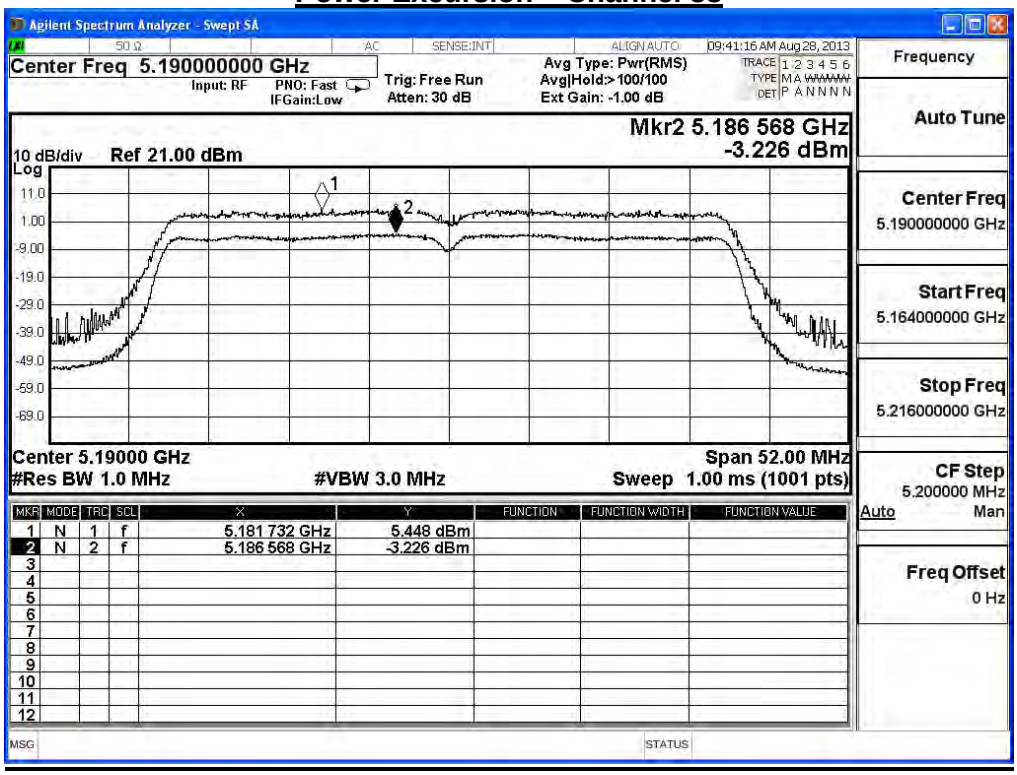
Power Excursion – Channel 46



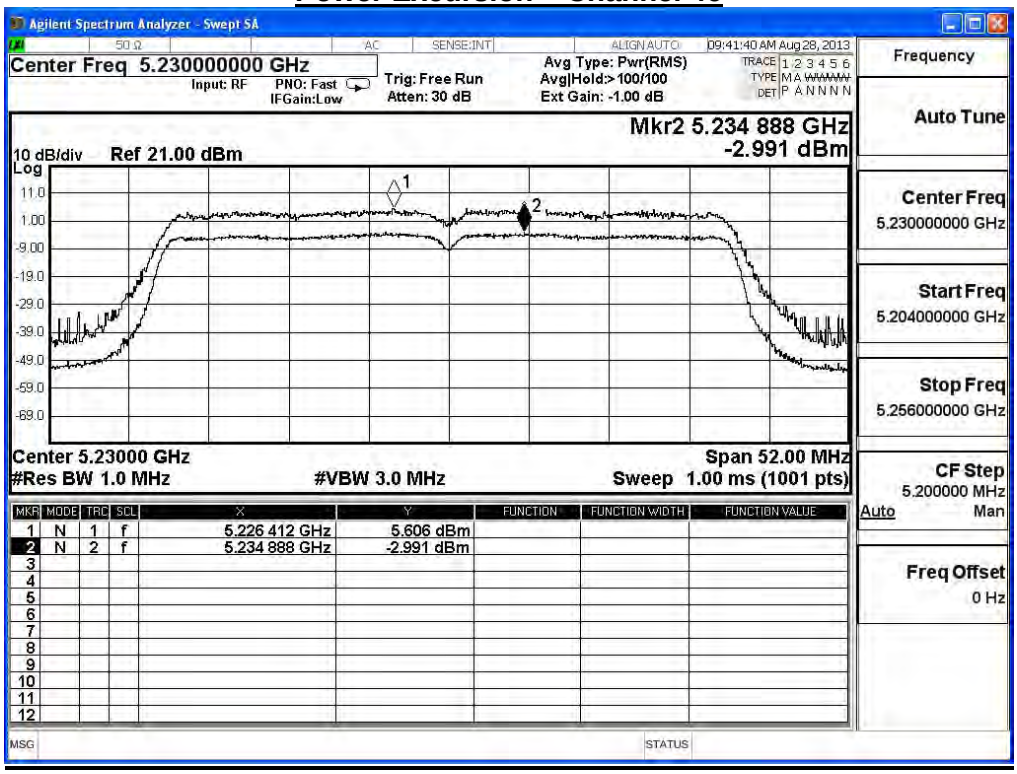
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

IEEE 802.11n_40M(ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
38	5190	8.67	≦13	Pass
46	5230	9.44	≦13	Pass

Power Excursion – Channel 38



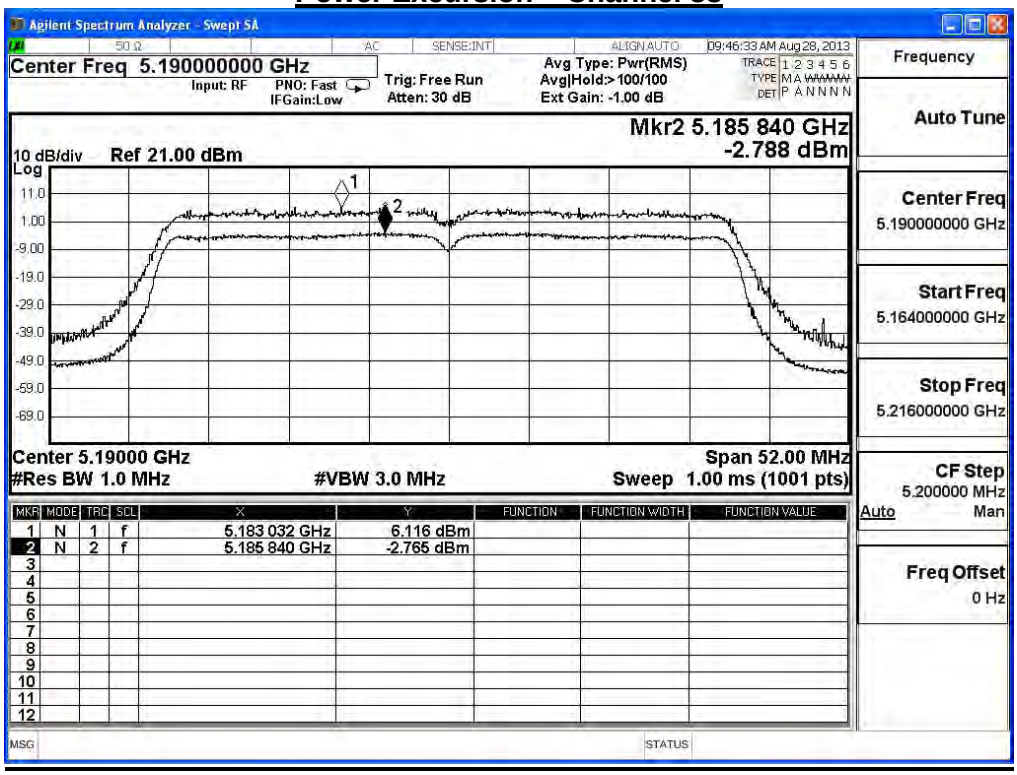
Power Excursion – Channel 46



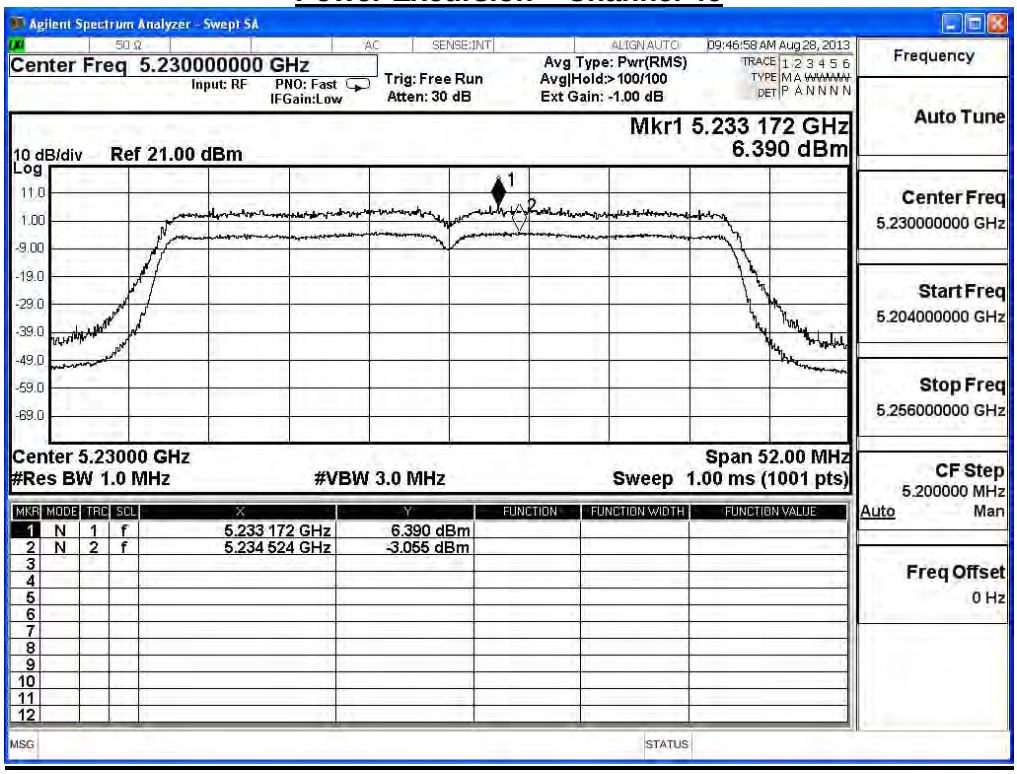
Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

IEEE 802.11n_40M(ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
38	5190	8.88	≦13	Pass
46	5230	8.08	≦13	Pass

Power Excursion – Channel 38



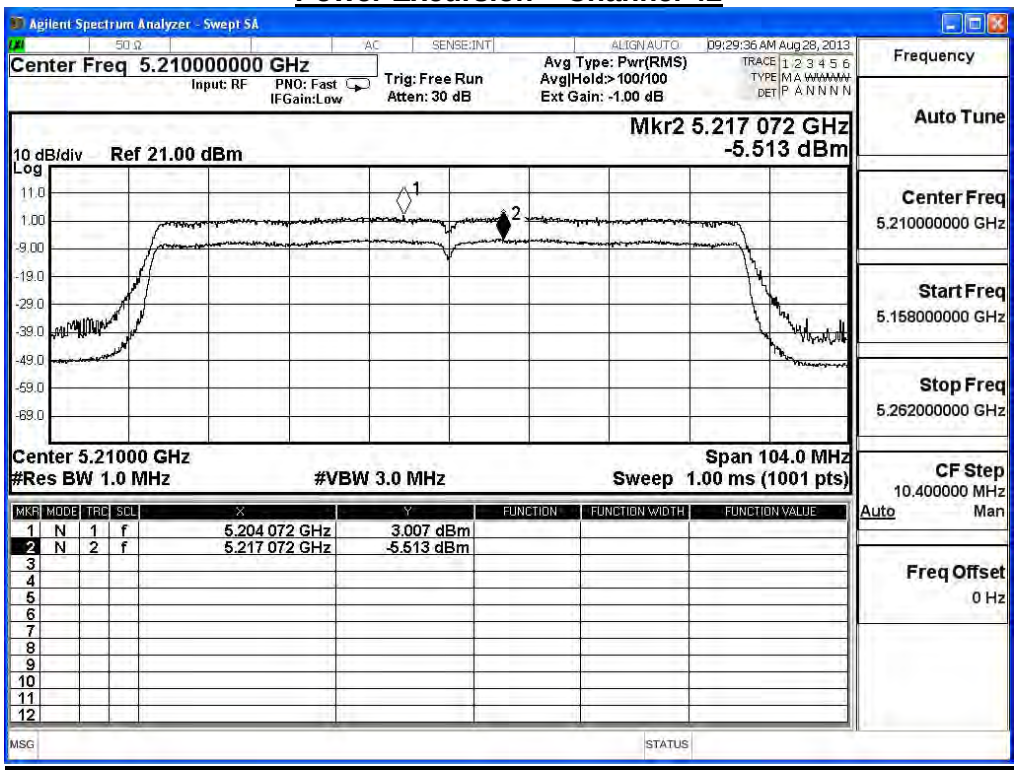
Power Excursion – Channel 46



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

IEEE 802.11ac_80M(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
42	5210	8.52	≦13	Pass

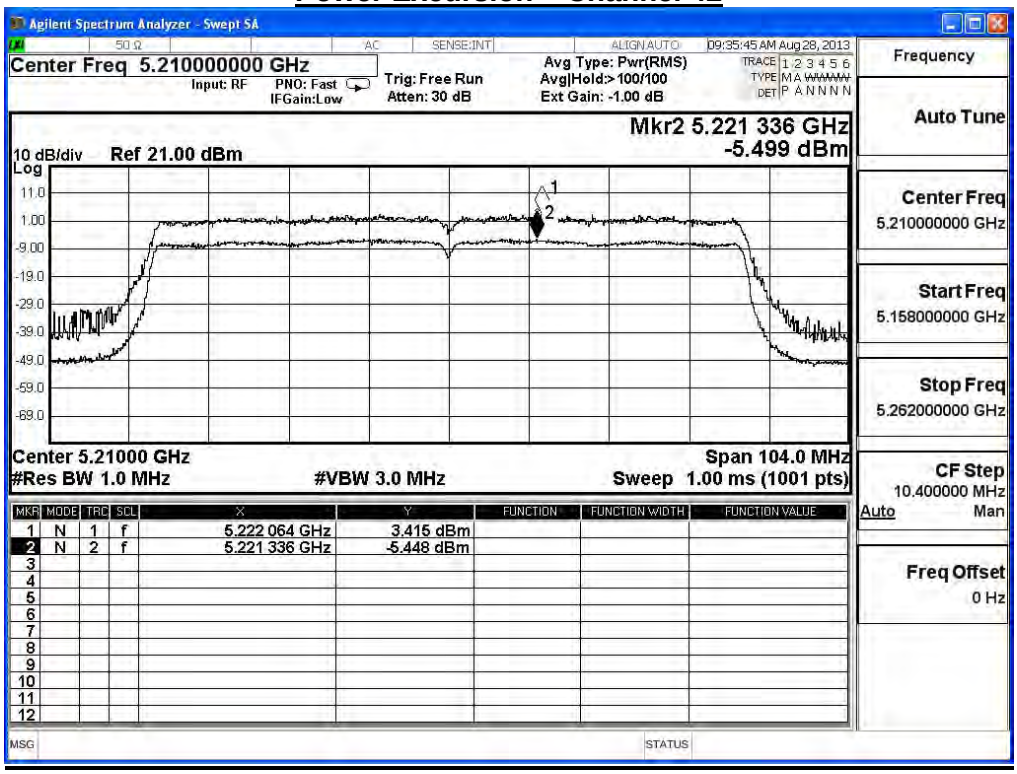
Power Excursion – Channel 42



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

IEEE 802.11ac_80M(ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
42	5210	8.86	≦13	Pass

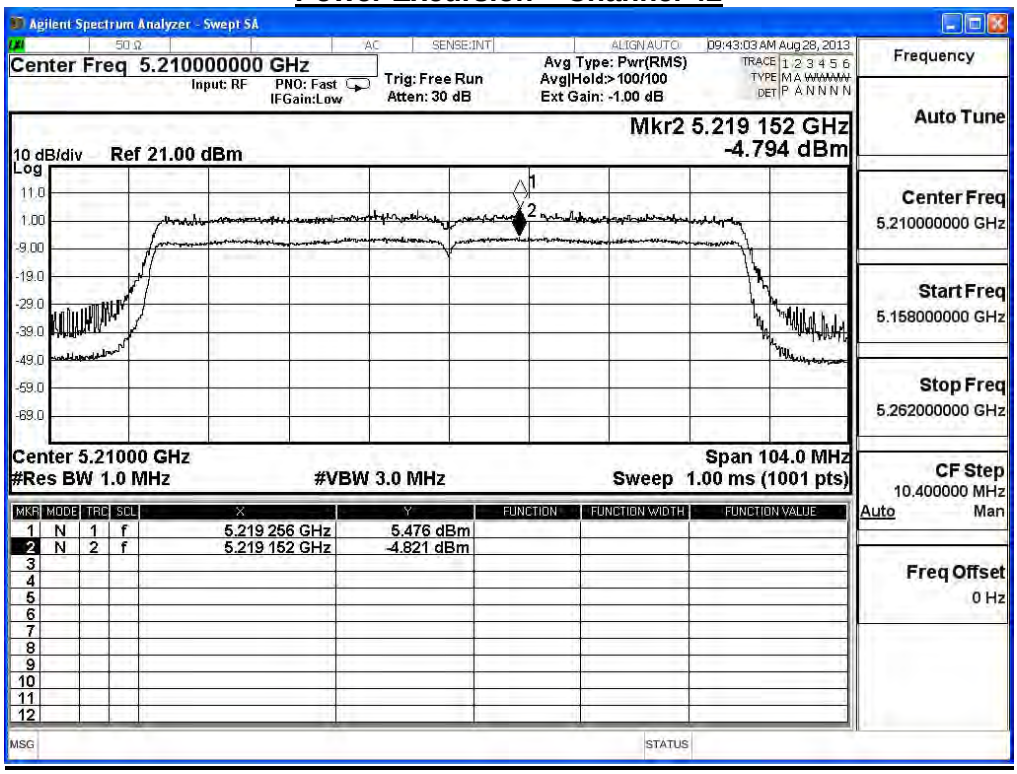
Power Excursion – Channel 42



Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH		
Date of Test	2013/08/28	Test Site	SR7

IEEE 802.11ac_80M(ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
42	5210	10.30	≦13	Pass

Power Excursion – Channel 42



7. Radiated Emission

7.1. Test Equipment

The following test equipments are used during the radiated emission test:

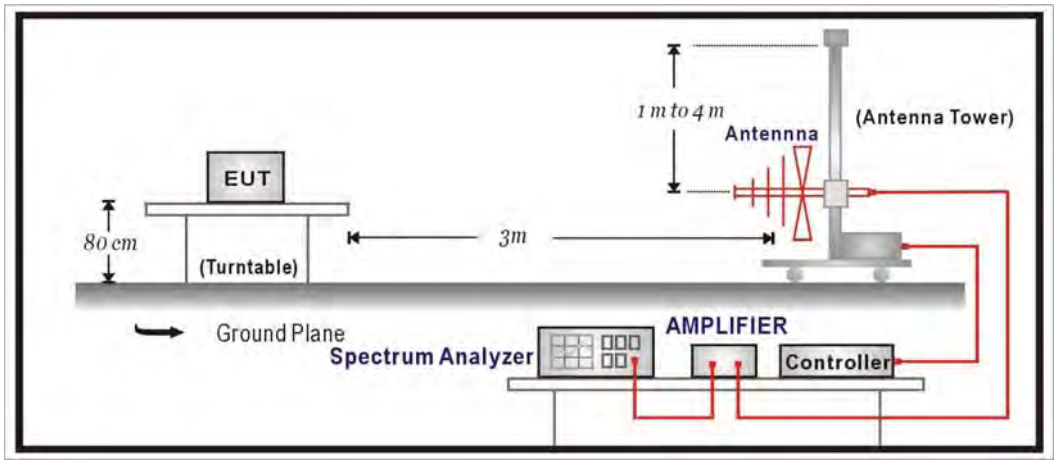
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895(CB1)	2014/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2014/02/17
Pre-Amplifier	MITEQ	AMF-4D-005180-24-10P	888003	2014/06/09
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2014/02/19
Spectrum Analyzer	Agilent	E4440A	MY46187335	2014/01/27
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2014/02/21

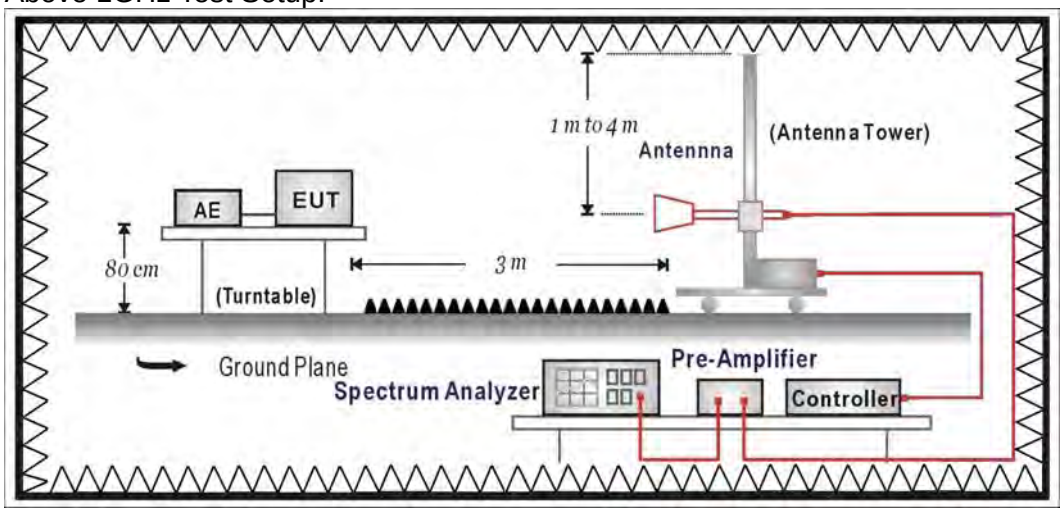
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



7.3. Limits

➢ General Radiated Emission Limits

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section. Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remark:

1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

➢ Unwanted Emission out of the restricted bands Limits

FCC Part 15 Subpart C Paragraph 15.407(b) Limits		
Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (dBuV/m@3m)
5150~5250	-27	68.3
5250~5350	-27	68.3
5470~5725	-27	68.3
5725~5825	-27 (Note1)	68.3
	-17 (Note2)	78.3

Remark:

1. For frequencies more than 10 MHz above or below the band edges.
2. For frequency range from the band edges to 10 MHz above or below the band edges.
3. uV/m = $\frac{1000000\sqrt{30 \times EIRP}}{3}$, RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

7.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated measurement.
The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field dtrength of harmonics measurement.
The bandwidth below 1GHz setting on the field strength meter is 120 KHz, above 1GHz are 1 MHz.
The frequency range from 30MHz to 10th harminics is checked.

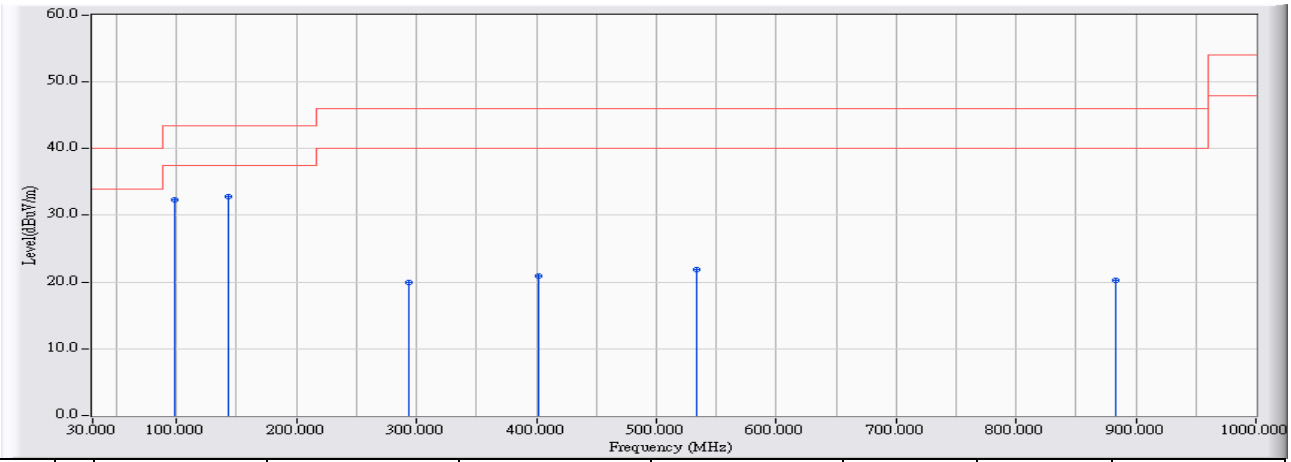
7.5. Uncertainty

The measurement uncertainty
30MHz～1GHz as ±3.43dB
1GHz～26.5Ghz as ±3.65dB

7.6. Test Result

30MHz-1GHz Spurious

Site : CB3	**Time : 2013/10/22 - 13:41**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB3_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH -5220MHz_802.11a**

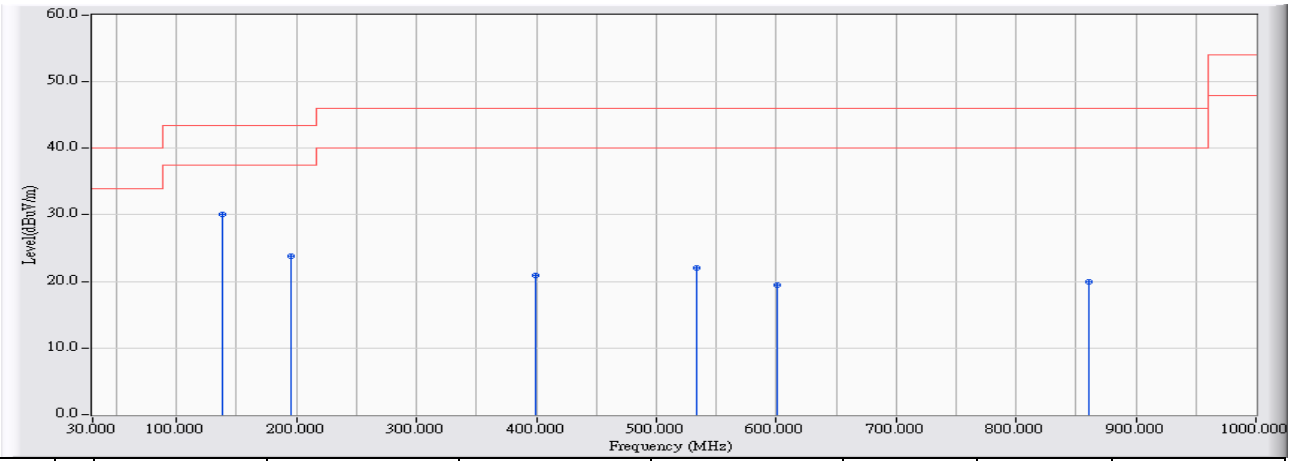


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		98.870	-23.421	55.788	32.366	-11.134	43.500	QUASIPEAK
2	*	143.490	-23.042	55.937	32.895	-10.605	43.500	QUASIPEAK
3		293.840	-20.167	40.084	19.917	-26.083	46.000	QUASIPEAK
4		401.510	-17.516	38.498	20.982	-25.018	46.000	QUASIPEAK
5		533.430	-15.584	37.397	21.813	-24.187	46.000	QUASIPEAK
6		882.630	-13.373	33.588	20.215	-25.785	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB3	**Time : 2013/10/22 - 13:42**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB3_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH -5220MHz_802.11a**

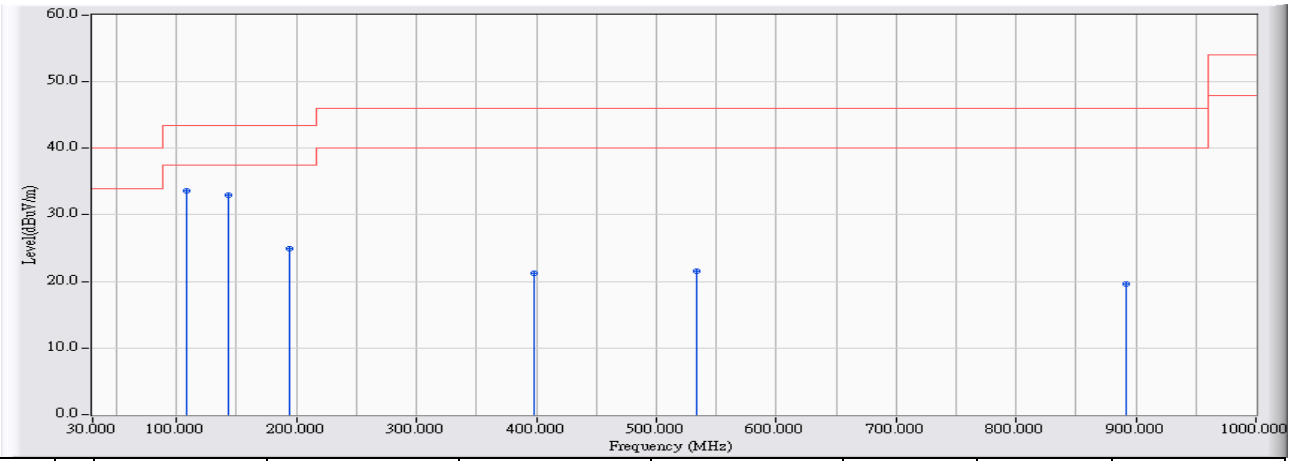


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	138.640	-22.821	52.916	30.095	-13.405	43.500	QUASIPEAK
2		194.900	-24.811	48.574	23.763	-19.737	43.500	QUASIPEAK
3		399.570	-17.557	38.409	20.852	-25.148	46.000	QUASIPEAK
4		533.430	-15.584	37.693	22.109	-23.891	46.000	QUASIPEAK
5		600.360	-15.514	34.926	19.411	-26.589	46.000	QUASIPEAK
6		860.320	-13.431	33.309	19.879	-26.121	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB3	**Time : 2013/10/22 - 13:43**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB3_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH -5220MHz_802.11n(20M)**

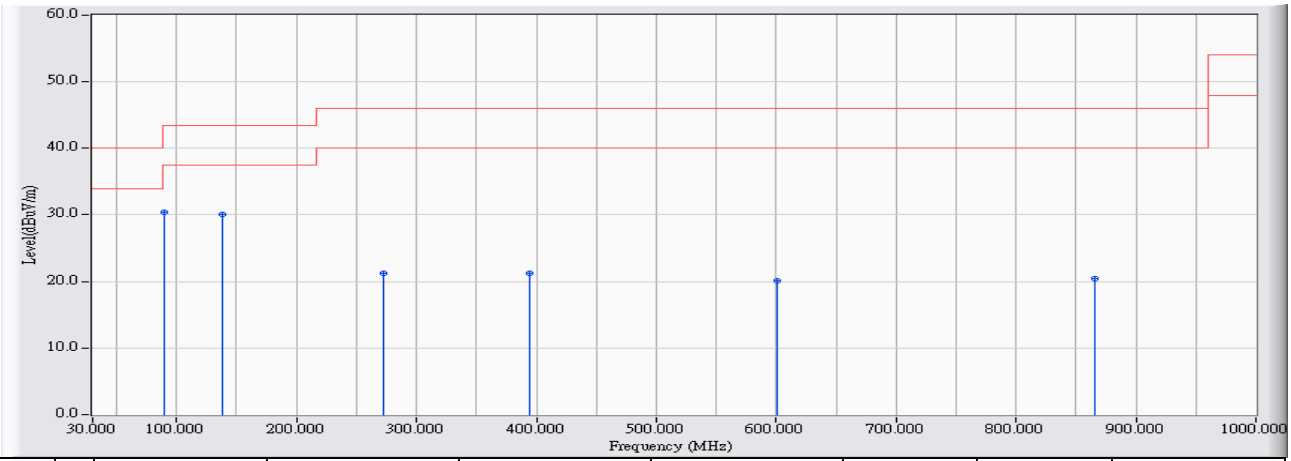


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	108.570	-22.739	56.423	33.684	-9.816	43.500	QUASIPEAK
2		143.490	-23.042	56.030	32.988	-10.512	43.500	QUASIPEAK
3		193.930	-24.805	49.816	25.010	-18.490	43.500	QUASIPEAK
4		398.600	-17.581	38.753	21.172	-24.828	46.000	QUASIPEAK
5		533.430	-15.584	37.098	21.514	-24.486	46.000	QUASIPEAK
6		891.360	-13.350	33.013	19.663	-26.337	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB3	**Time : 2013/10/22 - 13:44**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB3_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH -5220MHz_802.11n(20M)**

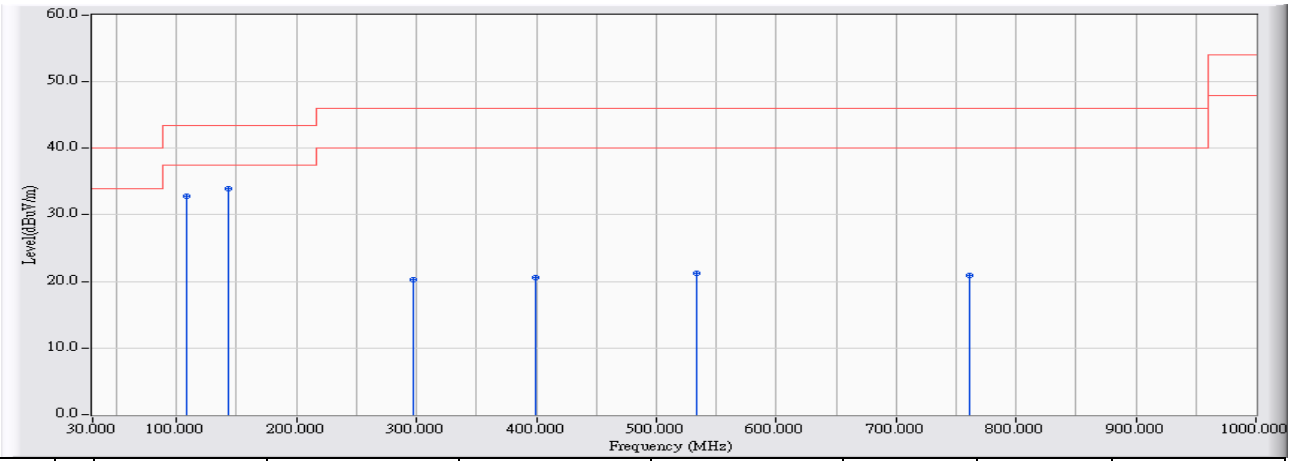


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	90.140	-25.468	55.839	30.370	-13.130	43.500	QUASIPEAK
2		138.640	-22.821	52.822	30.001	-13.499	43.500	QUASIPEAK
3		272.500	-20.581	41.842	21.261	-24.739	46.000	QUASIPEAK
4		393.750	-17.702	38.948	21.246	-24.754	46.000	QUASIPEAK
5		600.360	-15.514	35.550	20.035	-25.965	46.000	QUASIPEAK
6		866.140	-13.416	33.804	20.389	-25.611	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB3	**Time : 2013/10/22 - 13:46**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB3_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH -5230MHz_802.11n(40M)**

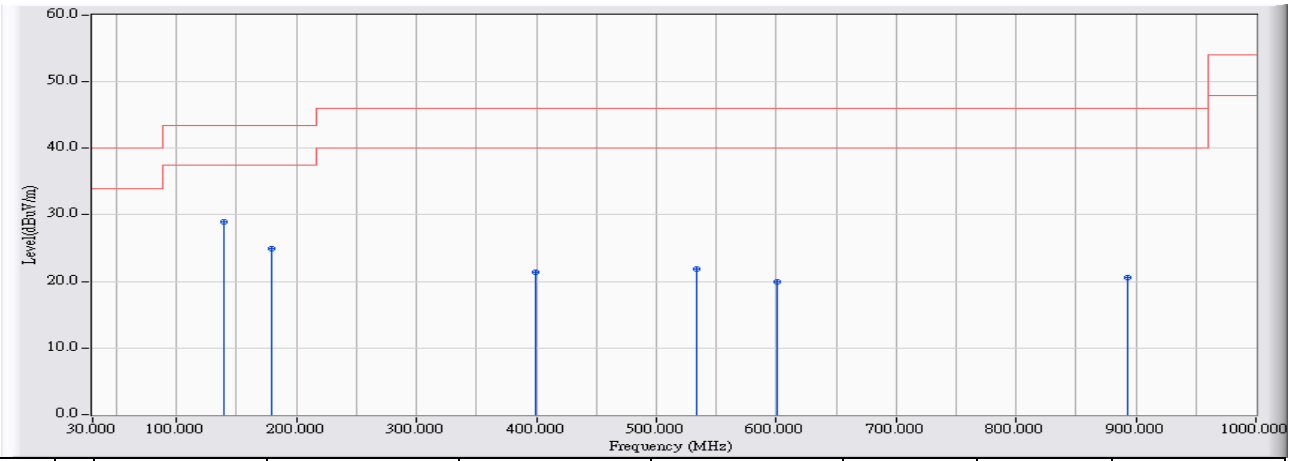


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		108.570	-22.739	55.628	32.889	-10.611	43.500	QUASIPEAK
2	*	143.490	-23.042	57.008	33.966	-9.534	43.500	QUASIPEAK
3		297.720	-20.093	40.334	20.242	-25.758	46.000	QUASIPEAK
4		399.570	-17.557	38.168	20.611	-25.389	46.000	QUASIPEAK
5		533.430	-15.584	36.785	21.201	-24.799	46.000	QUASIPEAK
6		761.380	-14.135	34.975	20.840	-25.160	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB3	**Time : 2013/10/22 - 13:48**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB3_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH -5230MHz_802.11n(40M)**

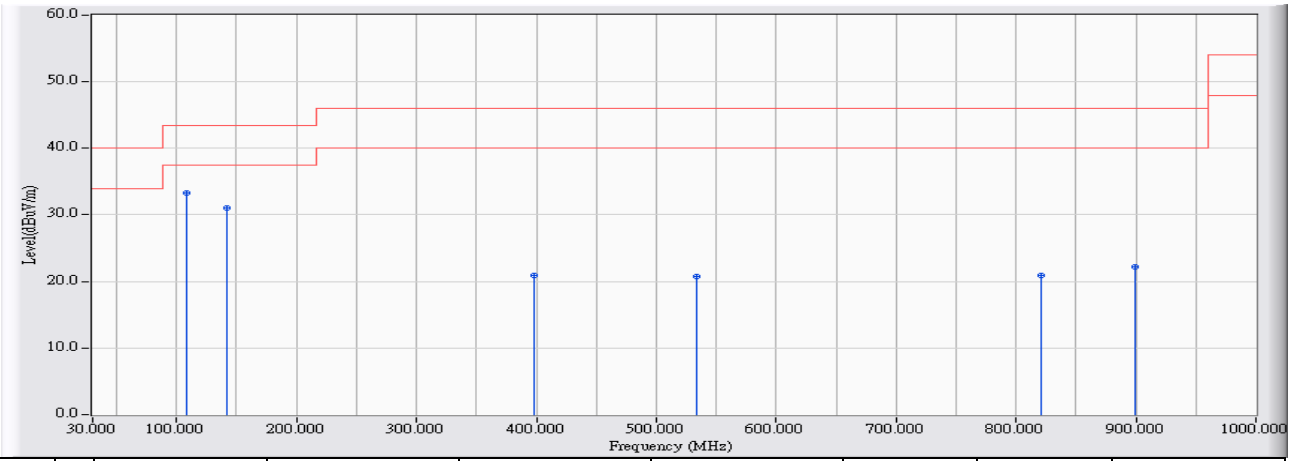


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	139.610	-22.855	51.820	28.965	-14.535	43.500	QUASIPEAK
2		179.380	-24.712	49.656	24.944	-18.556	43.500	QUASIPEAK
3		399.570	-17.557	38.960	21.403	-24.597	46.000	QUASIPEAK
4		533.430	-15.584	37.468	21.884	-24.116	46.000	QUASIPEAK
5		600.360	-15.514	35.395	19.880	-26.120	46.000	QUASIPEAK
6		893.300	-13.345	33.918	20.573	-25.427	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB3	**Time : 2013/10/22 - 13:53**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB3_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH -5210MHz_802.11ac(80M)**

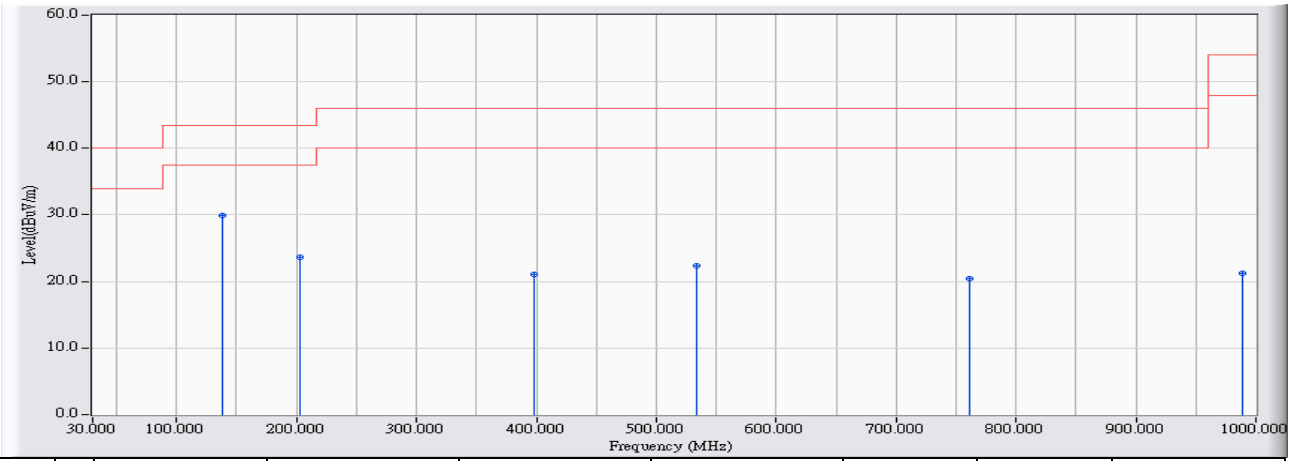


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	108.570	-22.739	56.085	33.346	-10.154	43.500	QUASIPEAK
2		141.550	-22.945	53.985	31.040	-12.460	43.500	QUASIPEAK
3		397.630	-17.605	38.563	20.958	-25.042	46.000	QUASIPEAK
4		533.430	-15.584	36.325	20.741	-25.259	46.000	QUASIPEAK
5		820.550	-13.533	34.423	20.890	-25.110	46.000	QUASIPEAK
6		899.120	-13.331	35.536	22.206	-23.794	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB3	**Time : 2013/10/22 - 13:55**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB3_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH -5210MHz_802.11ac(80M)**

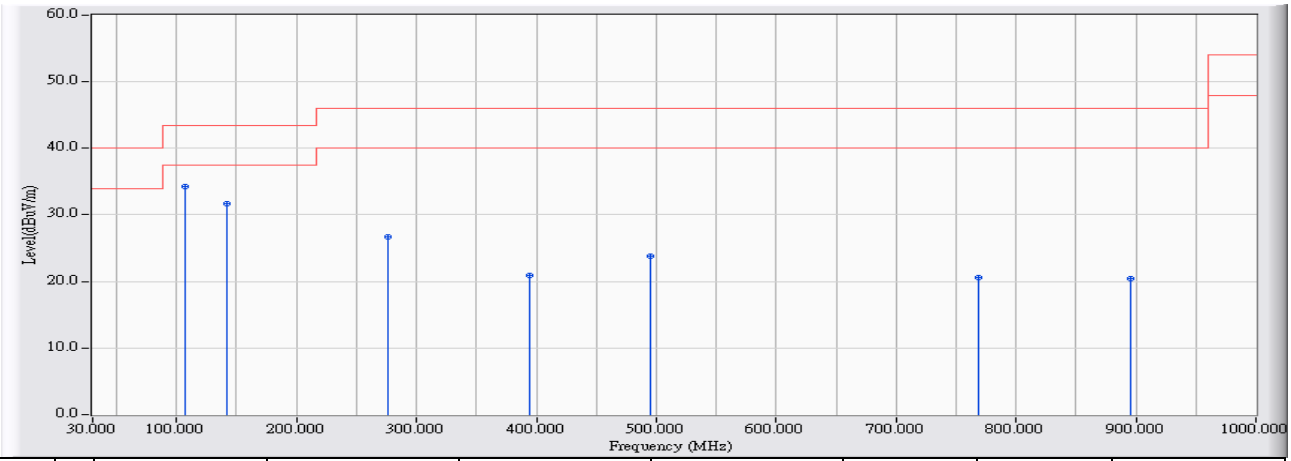


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	138.640	-22.821	52.759	29.938	-13.562	43.500	QUASIPEAK
2		202.660	-24.632	48.265	23.633	-19.867	43.500	QUASIPEAK
3		398.600	-17.581	38.670	21.089	-24.911	46.000	QUASIPEAK
4		533.430	-15.584	37.982	22.398	-23.602	46.000	QUASIPEAK
5		761.380	-14.135	34.529	20.394	-25.606	46.000	QUASIPEAK
6		988.360	-12.694	33.943	21.249	-32.751	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB3	**Time : 2013/10/22 - 14:54**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB3_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 3: Transmit (CDD Mode)_Adapter: AD890326-5220MHz-802.11a**

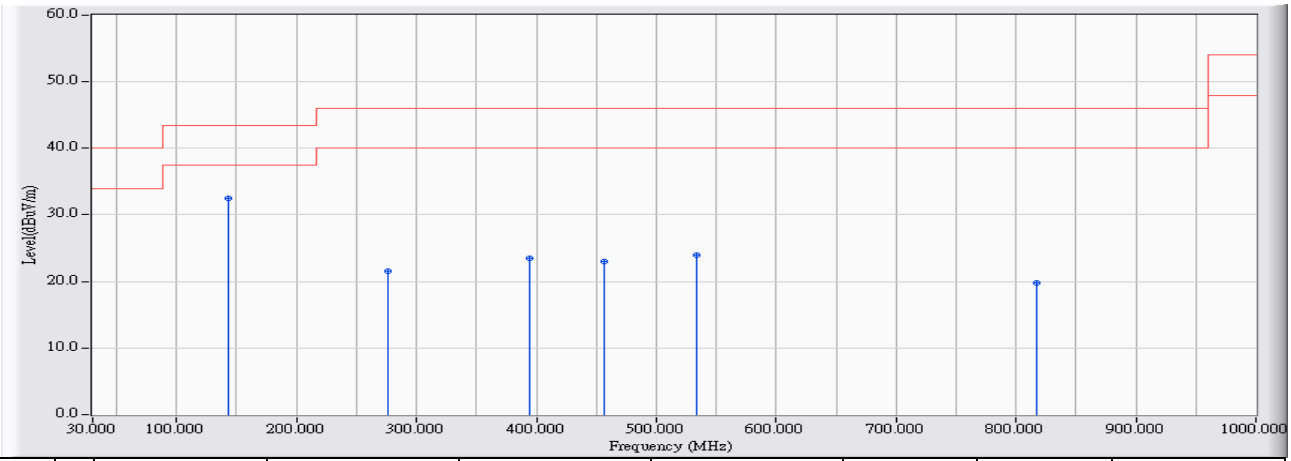


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.630	-22.833	57.134	34.300	-9.200	43.500	QUASIPEAK
2		141.550	-22.945	54.573	31.628	-11.872	43.500	QUASIPEAK
3		276.380	-20.505	47.166	26.661	-19.339	46.000	QUASIPEAK
4		393.750	-17.702	38.656	20.954	-25.046	46.000	QUASIPEAK
5		495.600	-15.703	39.545	23.843	-22.157	46.000	QUASIPEAK
6		768.170	-14.038	34.707	20.668	-25.332	46.000	QUASIPEAK
7		895.240	-13.340	33.806	20.466	-25.534	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB3	**Time : 2013/10/22 - 14:55**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB3_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 3: Transmit (CDD Mode)_Adapter: AD890326-5220MHz-802.11a**

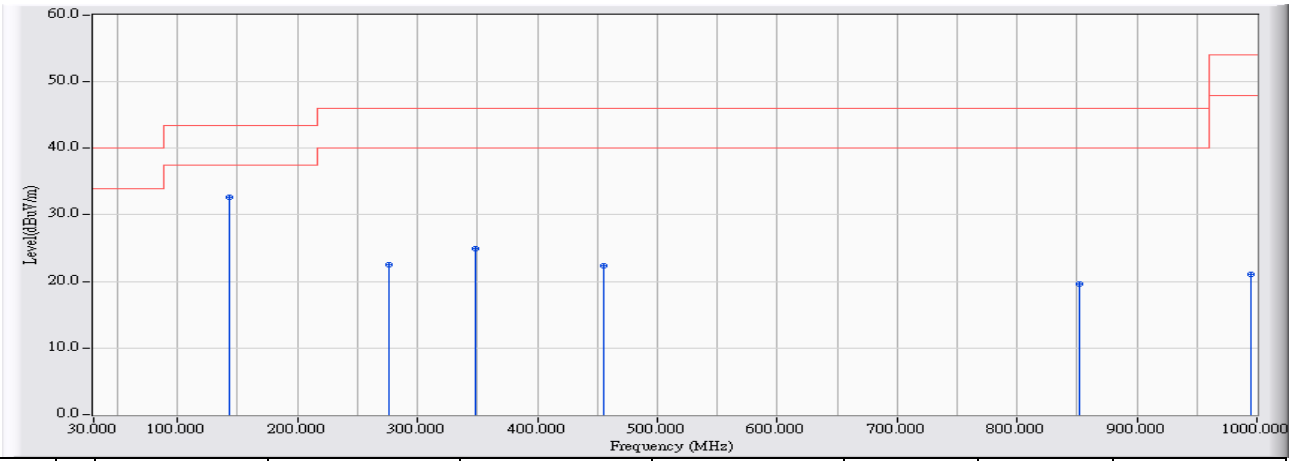


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	143.490	-23.042	55.596	32.554	-10.946	43.500	QUASIPEAK
2		276.380	-20.505	42.086	21.581	-24.419	46.000	QUASIPEAK
3		393.750	-17.702	41.199	23.497	-22.503	46.000	QUASIPEAK
4		456.800	-16.450	39.399	22.949	-23.051	46.000	QUASIPEAK
5		533.430	-15.584	39.550	23.966	-22.034	46.000	QUASIPEAK
6		817.640	-13.541	33.340	19.800	-26.200	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB3	**Time : 2013/10/22 - 14:56**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB3_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 3: Transmit (CDD Mode)_Adapter: AD890326-5220MHz_802.11n(20M)**

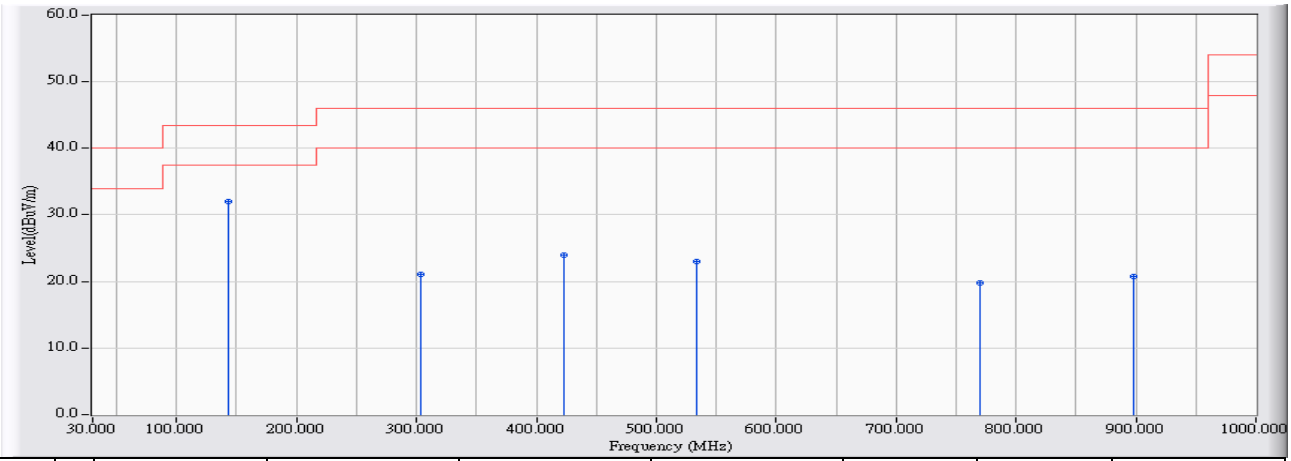


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	143.490	-23.042	55.720	32.678	-10.822	43.500	QUASIPEAK
2		276.380	-20.505	43.084	22.579	-23.421	46.000	QUASIPEAK
3		348.160	-18.843	43.772	24.929	-21.071	46.000	QUASIPEAK
4		455.830	-16.469	38.792	22.323	-23.677	46.000	QUASIPEAK
5		851.590	-13.453	33.103	19.650	-26.350	46.000	QUASIPEAK
6		995.150	-12.646	33.644	20.998	-33.002	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB3	**Time : 2013/10/22 - 14:57**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB3_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 3: Transmit (CDD Mode)_Adapter: AD890326-5220MHz_802.11n(20M)**

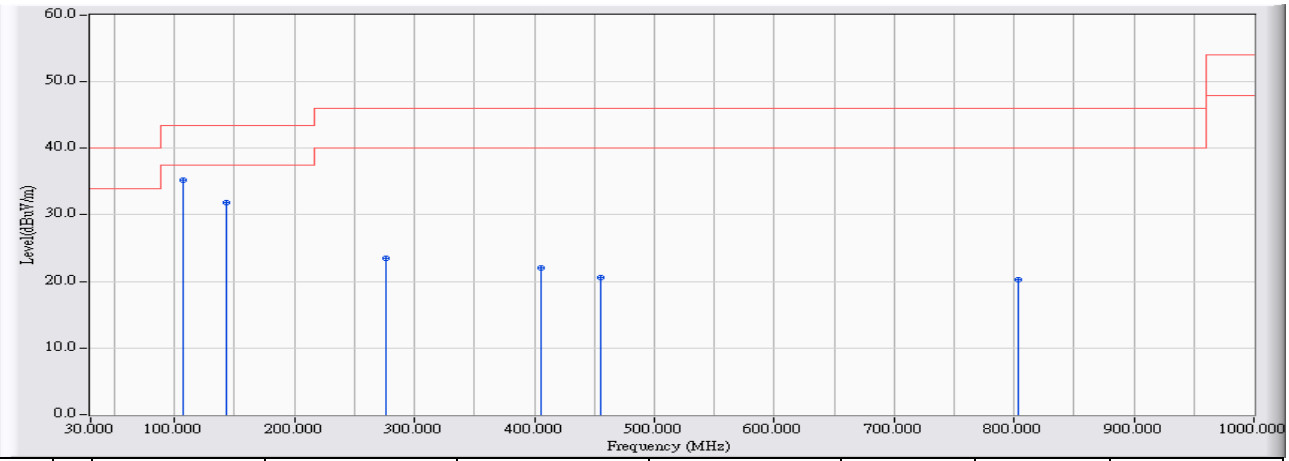


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	143.490	-23.042	55.089	32.047	-11.453	43.500	QUASIPEAK
2		303.540	-19.959	41.001	21.042	-24.958	46.000	QUASIPEAK
3		422.850	-17.106	41.105	24.000	-22.000	46.000	QUASIPEAK
4		533.430	-15.584	38.667	23.083	-22.917	46.000	QUASIPEAK
5		770.110	-14.011	33.828	19.817	-26.183	46.000	QUASIPEAK
6		898.150	-13.333	34.016	20.683	-25.317	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB3	**Time : 2013/10/22 - 14:59**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB3_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 3: Transmit (CDD Mode)_Adapter: AD890326-5230MHz_802.11n(40M)**

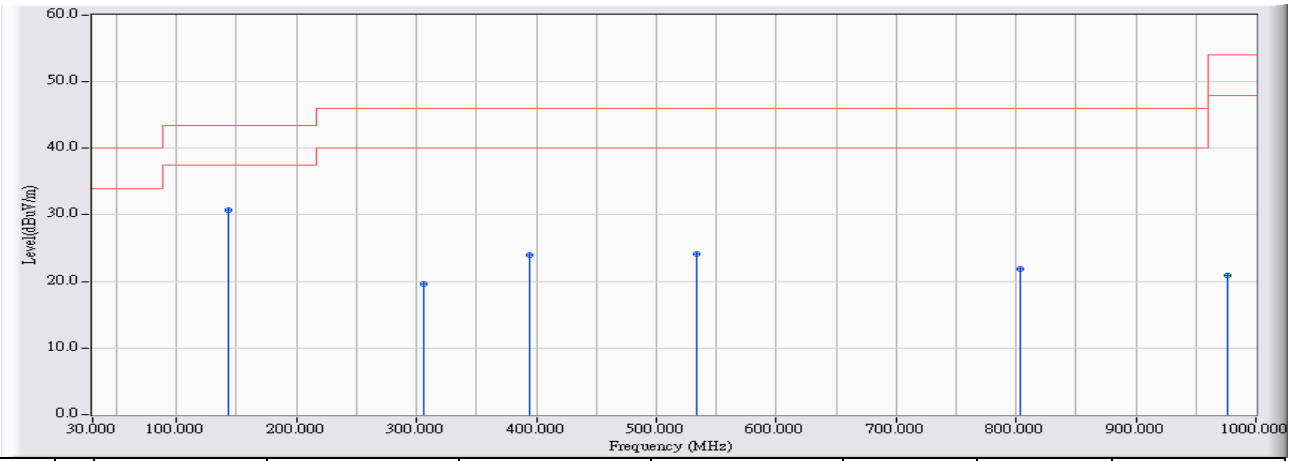


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	106.630	-22.833	58.138	35.304	-8.196	43.500	QUASIPEAK
2		143.490	-23.042	54.925	31.883	-11.617	43.500	QUASIPEAK
3		276.380	-20.505	43.938	23.433	-22.567	46.000	QUASIPEAK
4		405.390	-17.441	39.520	22.078	-23.922	46.000	QUASIPEAK
5		455.830	-16.469	37.049	20.580	-25.420	46.000	QUASIPEAK
6		804.060	-13.575	33.835	20.260	-25.740	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB3	**Time : 2013/10/22 - 15:01**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB3_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 3: Transmit (CDD Mode)_Adapter: AD890326-5230MHz_802.11n(40M)**

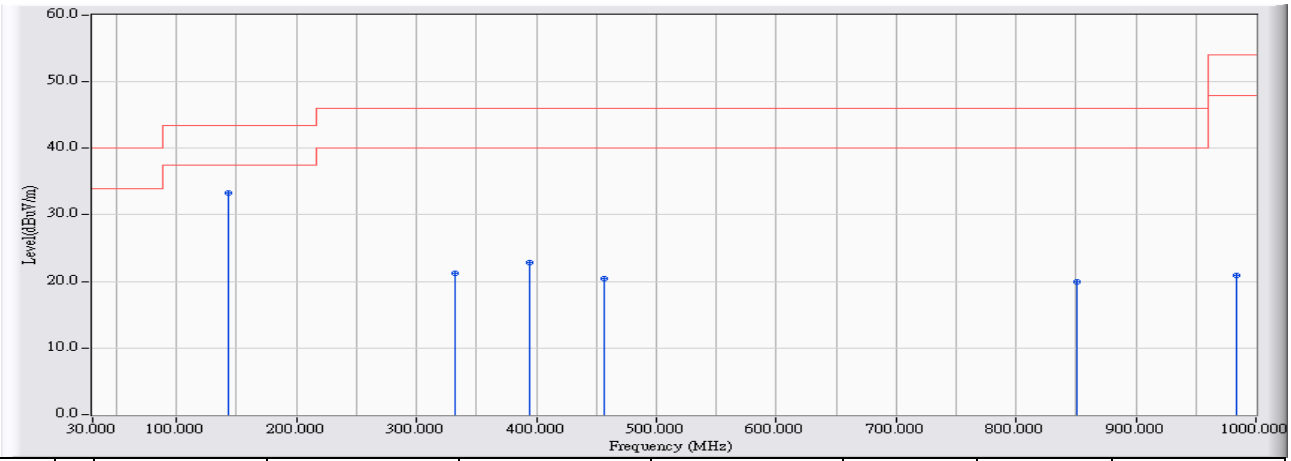


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	143.490	-23.042	53.824	30.782	-12.718	43.500	QUASIPEAK
2		306.450	-19.887	39.520	19.633	-26.367	46.000	QUASIPEAK
3		393.750	-17.702	41.598	23.896	-22.104	46.000	QUASIPEAK
4		533.430	-15.584	39.749	24.165	-21.835	46.000	QUASIPEAK
5		804.060	-13.575	35.378	21.803	-24.197	46.000	QUASIPEAK
6		975.750	-12.785	33.714	20.929	-33.071	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB3	**Time : 2013/10/22 - 15:03**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB3_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 3: Transmit (CDD Mode)_Adapter: AD890326-5210MHz_802.11ac(80M)**

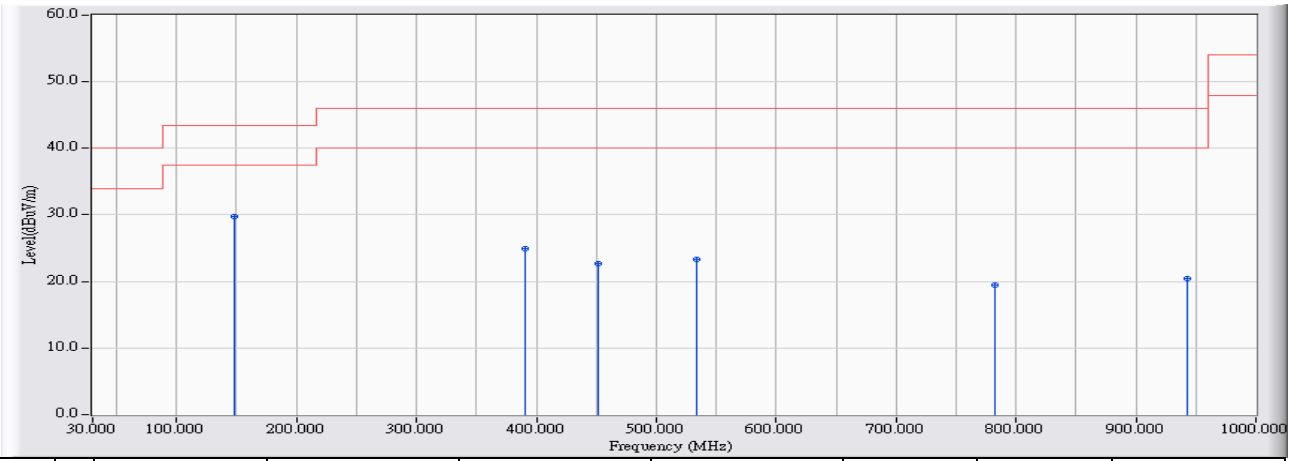


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	143.490	-23.042	56.337	33.295	-10.205	43.500	QUASIPEAK
2		331.670	-19.255	40.501	21.246	-24.754	46.000	QUASIPEAK
3		393.750	-17.702	40.583	22.881	-23.119	46.000	QUASIPEAK
4		456.800	-16.450	36.860	20.410	-25.590	46.000	QUASIPEAK
5		850.620	-13.455	33.333	19.878	-26.122	46.000	QUASIPEAK
6		983.510	-12.729	33.665	20.936	-33.064	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB3	**Time : 2013/10/22 - 15:04**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB3_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 3: Transmit (CDD Mode)_Adapter: AD890326-5210MHz_802.11ac(80M)**



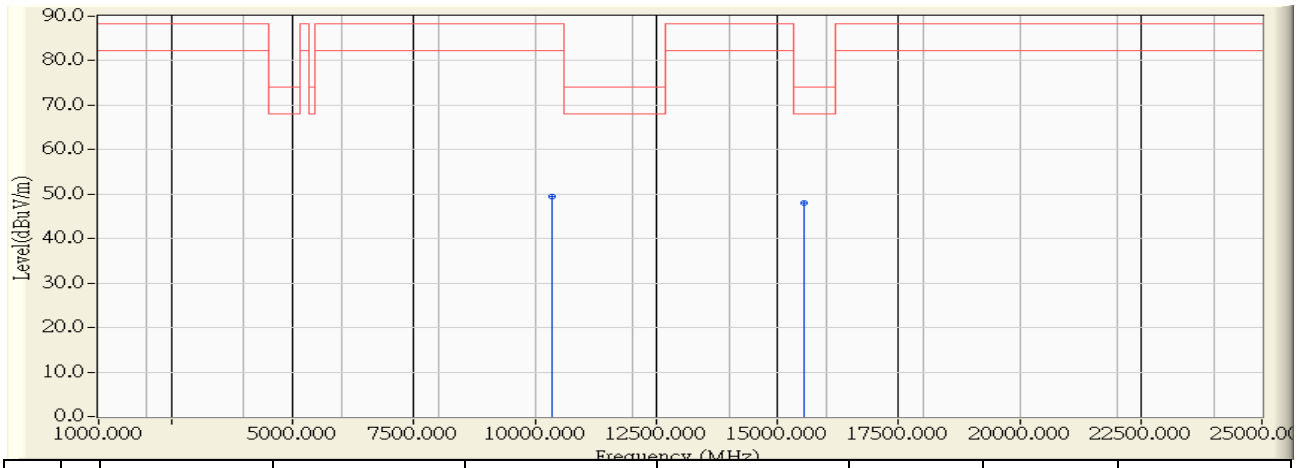
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	148.340	-23.284	53.014	29.731	-13.769	43.500	QUASIPEAK
2		390.840	-17.775	42.641	24.866	-21.134	46.000	QUASIPEAK
3		451.950	-16.544	39.288	22.744	-23.256	46.000	QUASIPEAK
4		533.430	-15.584	38.896	23.312	-22.688	46.000	QUASIPEAK
5		781.750	-13.846	33.248	19.402	-26.598	46.000	QUASIPEAK
6		942.770	-13.022	33.425	20.404	-25.596	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Harmonic & Spurious:

Site : CB1	**Time : 2013/08/27 - 16:06**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11a 5180MHz**

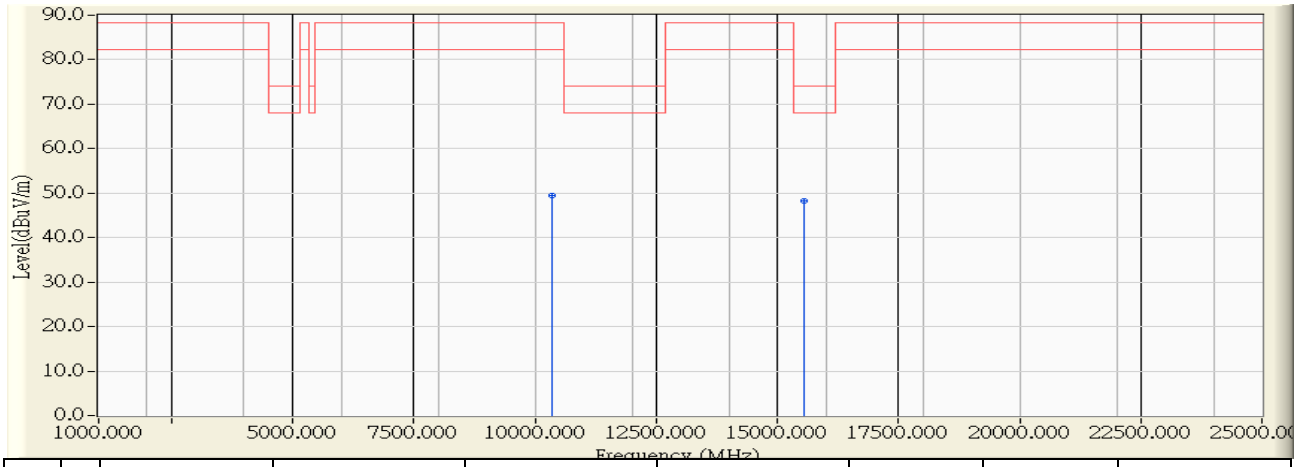


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10360.000	10.432	39.100	49.532	-38.768	88.300	PEAK
2	*	15540.000	11.109	36.950	48.059	-25.941	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 16:08**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11a 5180MHz**

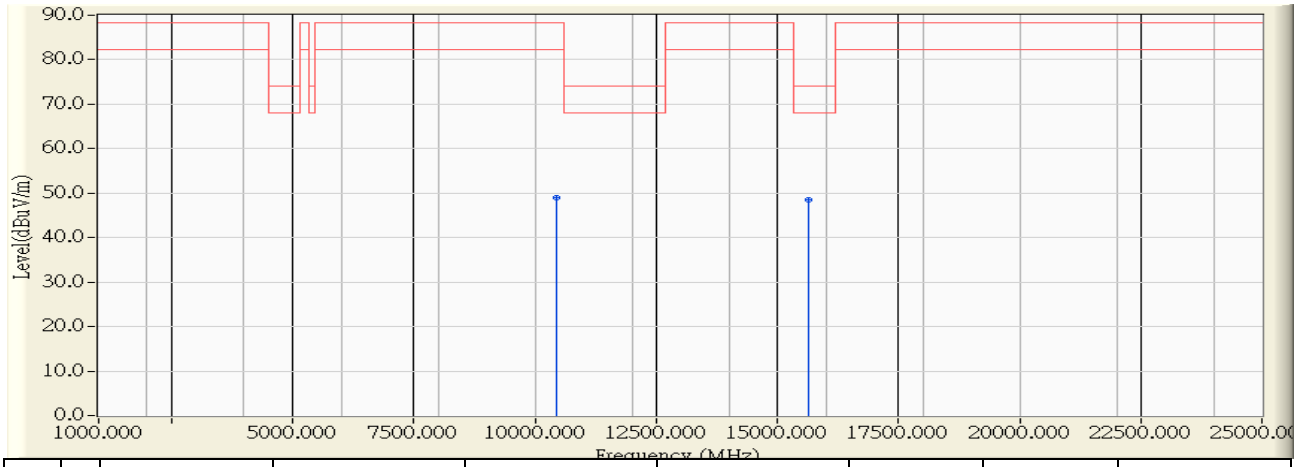


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10360.000	10.432	39.120	49.552	-38.748	88.300	PEAK
2	*	15540.000	11.109	37.200	48.309	-25.691	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 16:10**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11a 5220MHz**

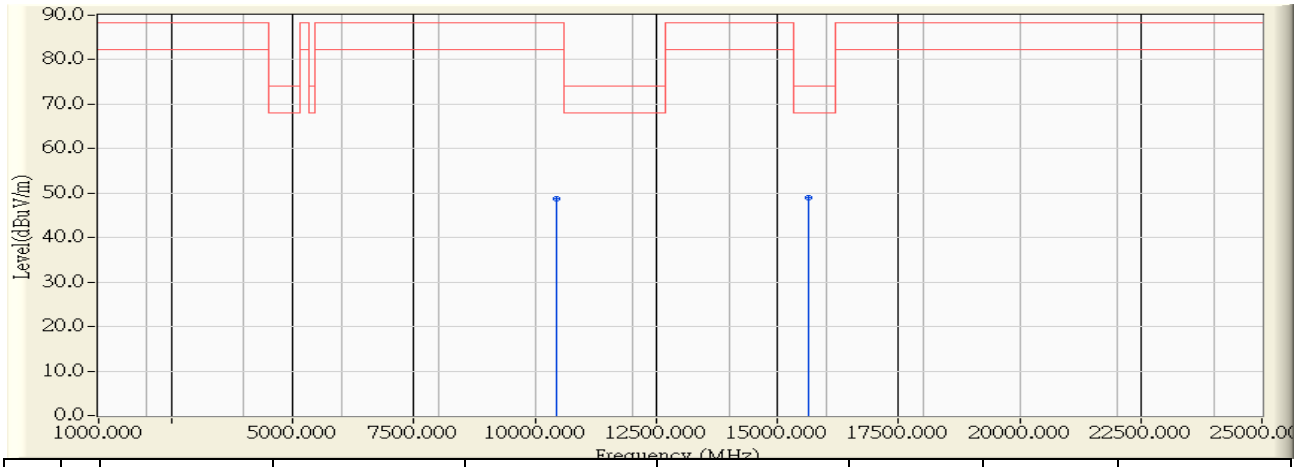


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10440.000	10.194	38.700	48.894	-39.406	88.300	PEAK
2	*	15660.000	10.975	37.460	48.435	-25.565	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 16:11**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11a 5220MHz**

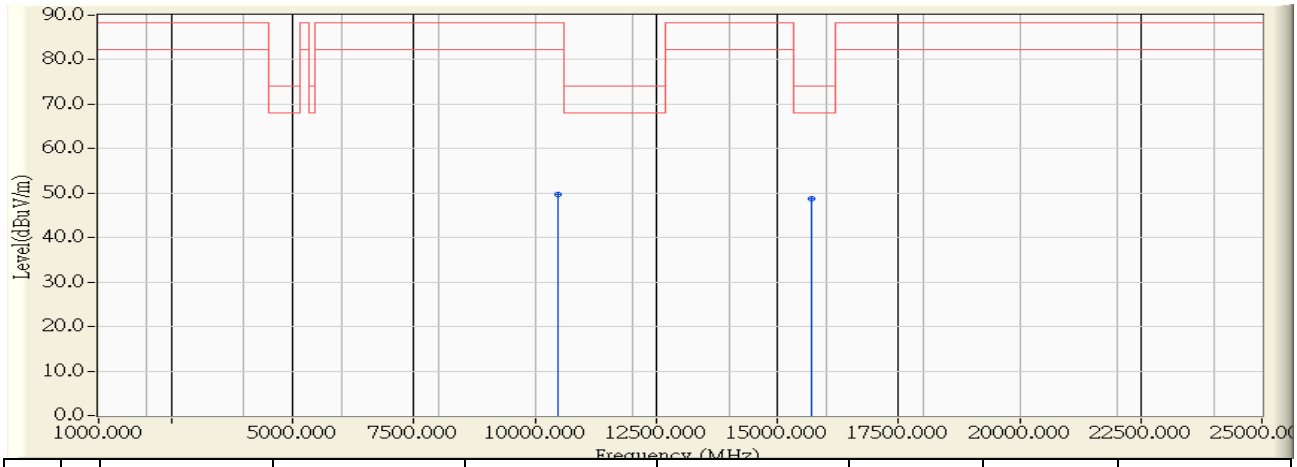


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10440.000	10.194	38.430	48.624	-39.676	88.300	PEAK
2	*	15660.000	10.975	37.930	48.905	-25.095	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 16:15**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11a 5240MHz**

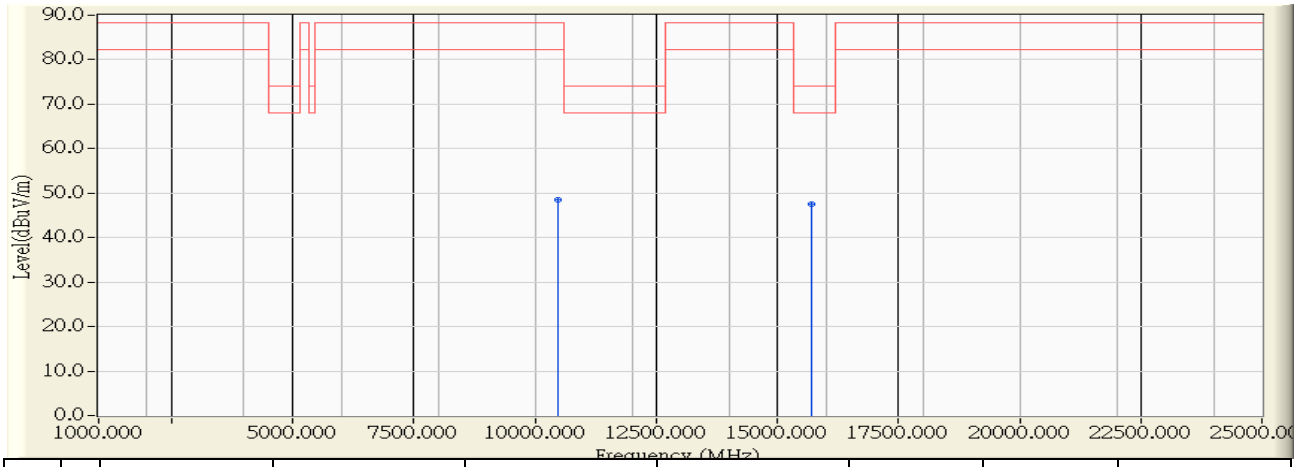


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10480.000	10.075	39.530	49.605	-38.695	88.300	PEAK
2	*	15720.000	10.908	37.840	48.748	-25.252	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 16:16**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11a 5240MHz**

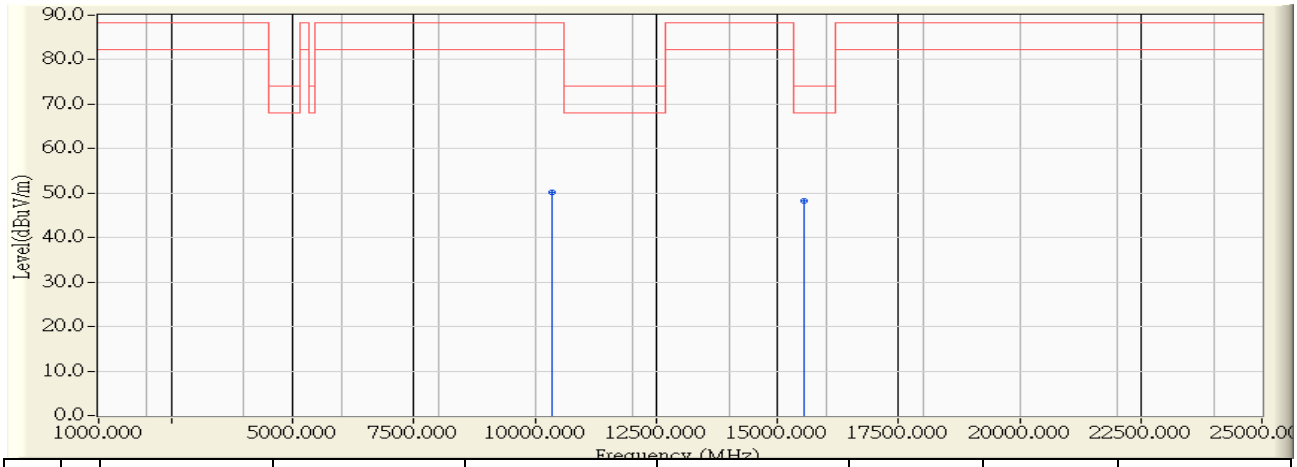


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10480.000	10.075	38.530	48.605	-39.695	88.300	PEAK
2	*	15720.000	10.908	36.520	47.428	-26.572	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 16:17**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n20 5180MHz**

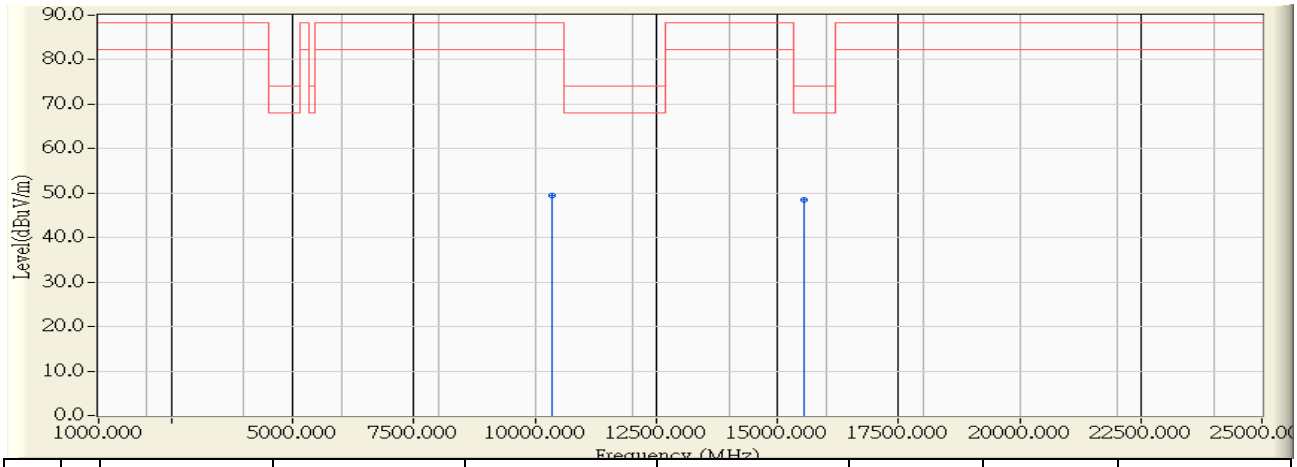


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10360.000	10.432	39.740	50.172	-38.128	88.300	PEAK
2	*	15540.000	11.109	37.090	48.199	-25.801	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 16:19**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n20 5180MHz**

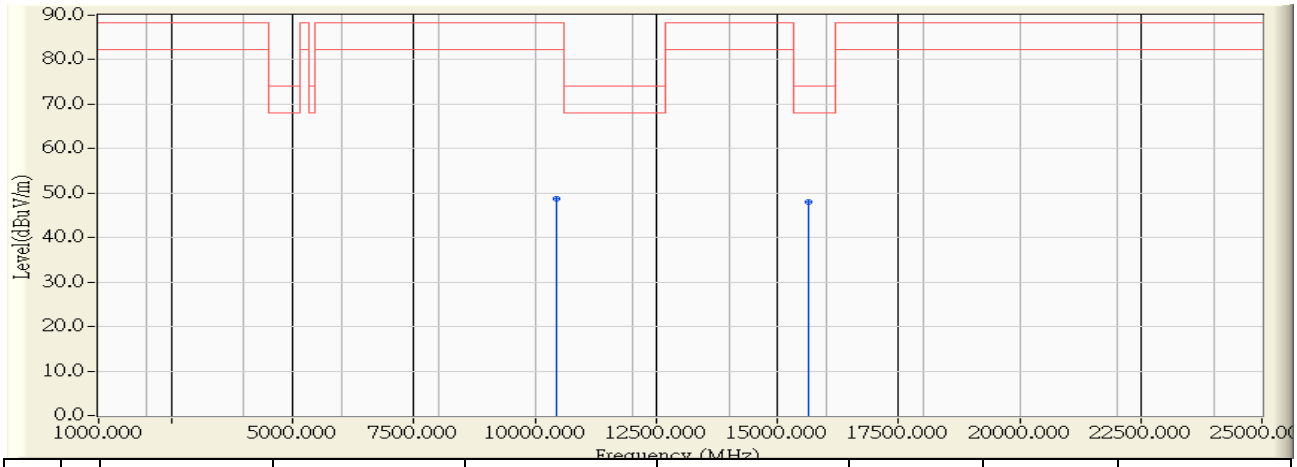


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10360.000	10.432	39.070	49.502	-38.798	88.300	PEAK
2	*	15540.000	11.109	37.440	48.549	-25.451	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 16:21**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n20 5220MHz**

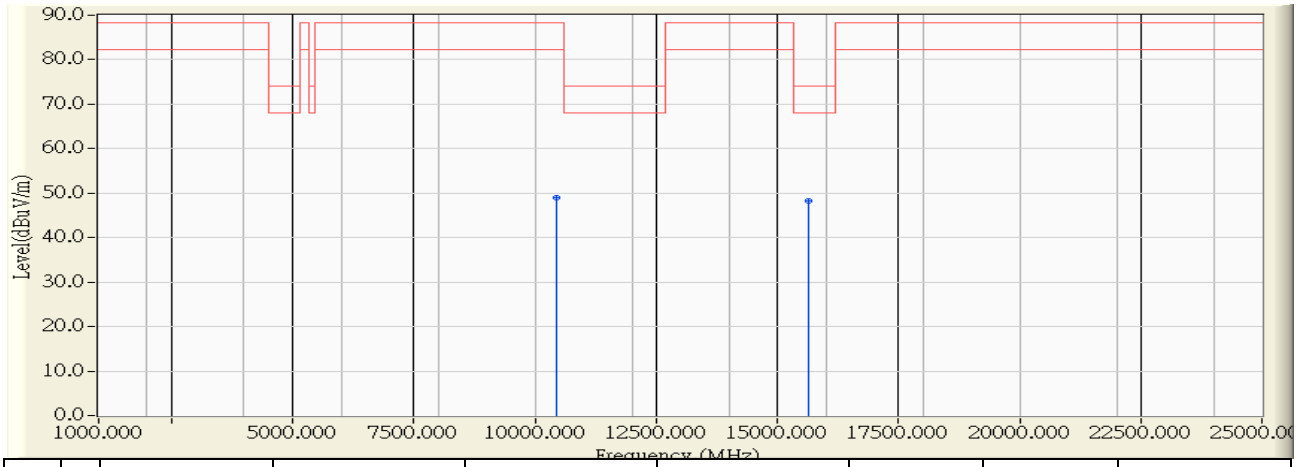


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10440.000	10.194	38.530	48.724	-39.576	88.300	PEAK
2	*	15660.000	10.975	37.140	48.115	-25.885	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 16:23**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n20 5220MHz**

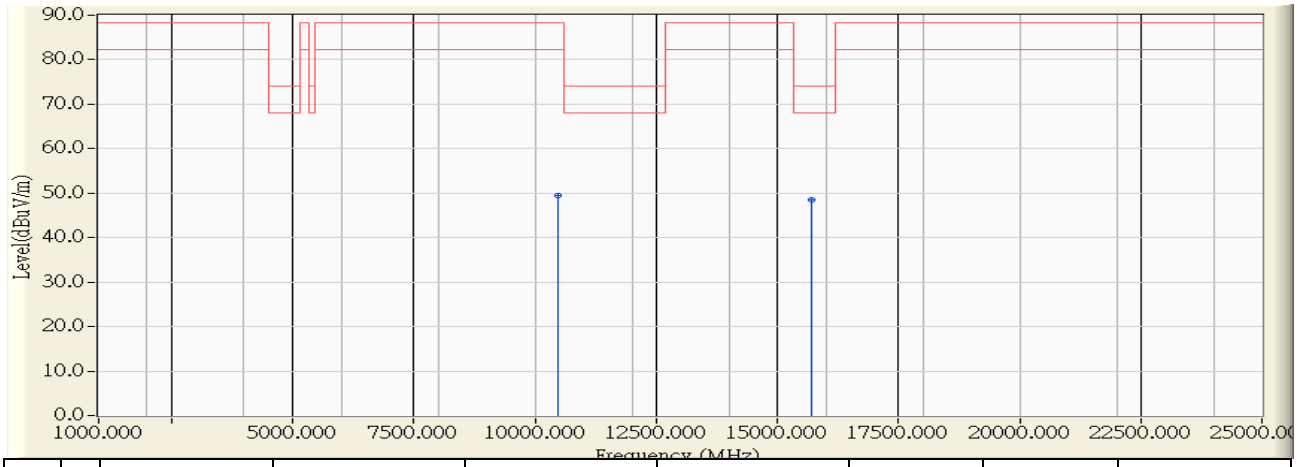


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10440.000	10.194	38.860	49.054	-39.246	88.300	PEAK
2	*	15660.000	10.975	37.350	48.325	-25.675	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 16:27**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n20 5240MHz TX**

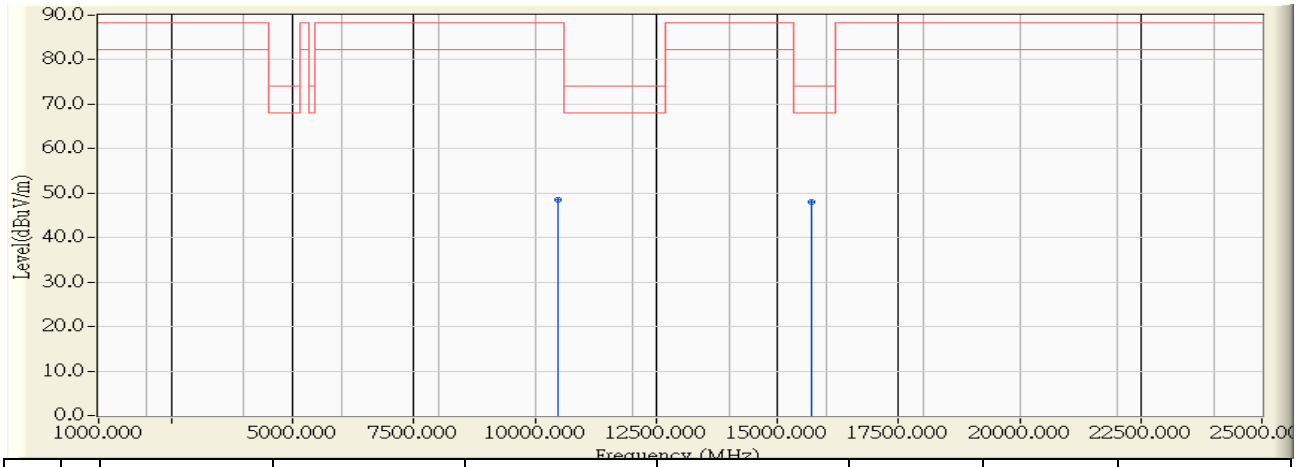


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10480.000	10.075	39.360	49.435	-38.865	88.300	PEAK
2	*	15720.000	10.908	37.490	48.398	-25.602	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 16:28**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n20 5240MHz TX**

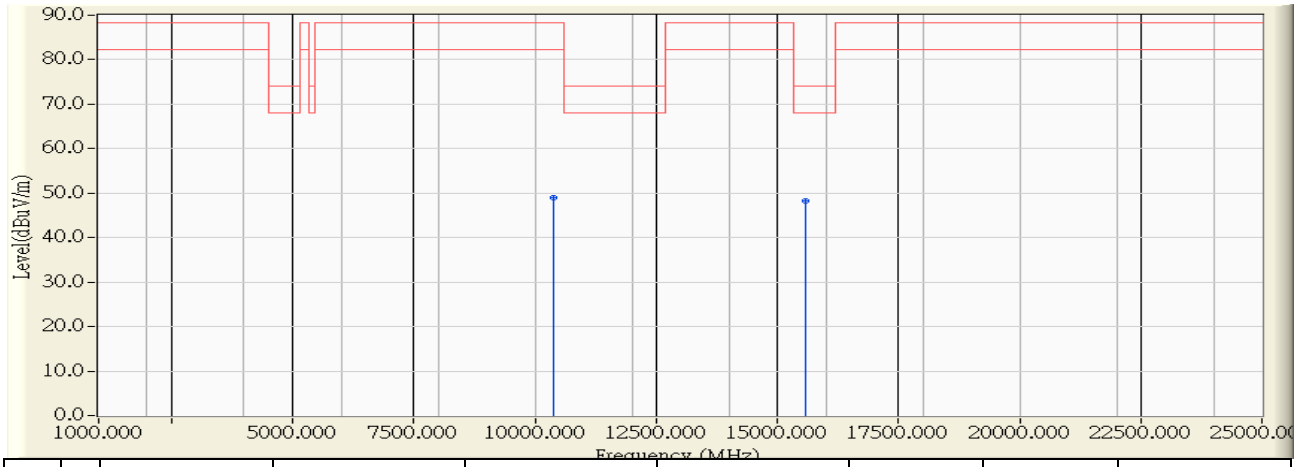


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10480.000	10.075	38.520	48.595	-39.705	88.300	PEAK
2	*	15720.000	10.908	37.030	47.938	-26.062	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 16:29**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n40 5190MHz TX**

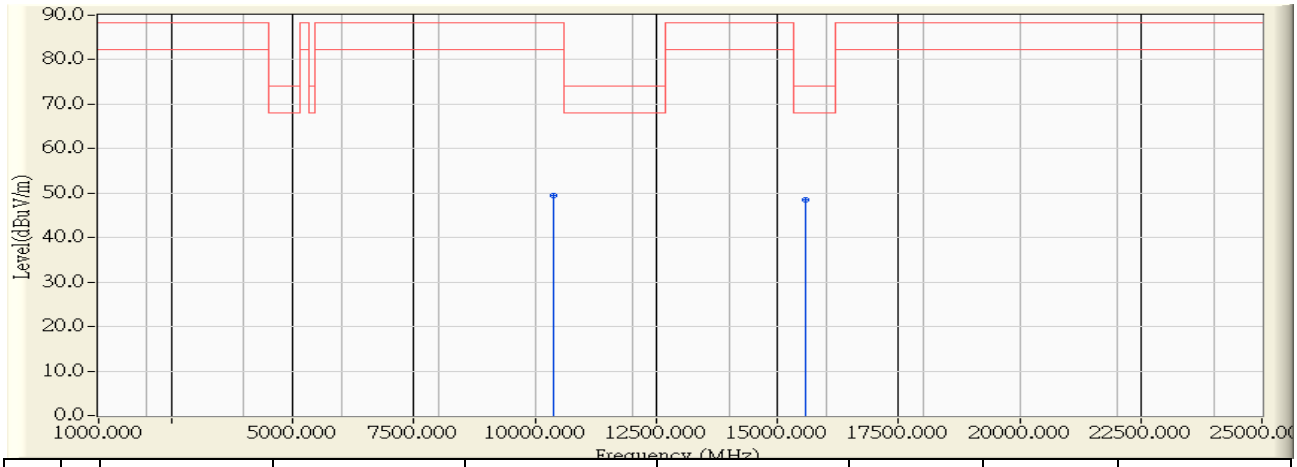


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10380.000	10.373	38.670	49.043	-39.257	88.300	PEAK
2	*	15570.000	11.076	37.260	48.336	-25.664	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 16:32**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n40 5190MHz TX**

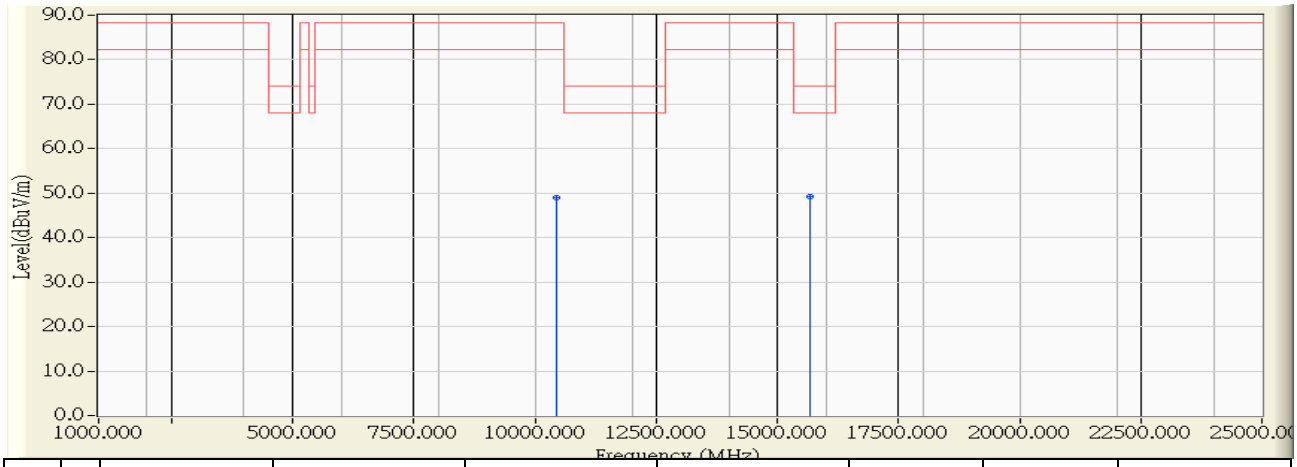


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10380.000	10.373	39.030	49.403	-38.897	88.300	PEAK
2	*	15570.000	11.076	37.460	48.536	-25.464	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 16:35**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n40 5230MHz TX**

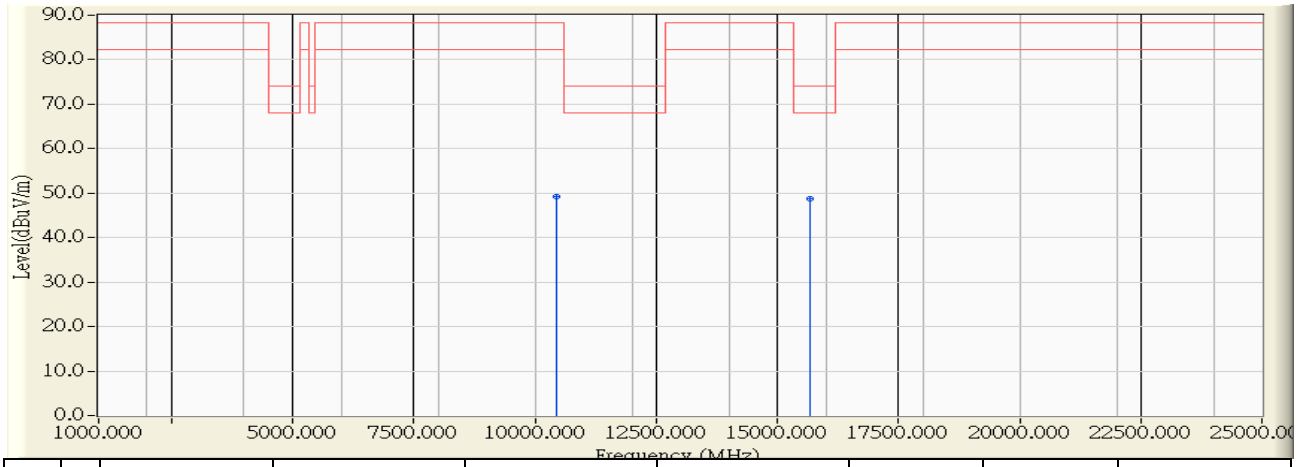


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10460.000	10.134	38.820	48.954	-39.346	88.300	PEAK
2	*	15690.000	10.942	38.250	49.192	-24.808	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 16:38**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n40 5230MHz TX**

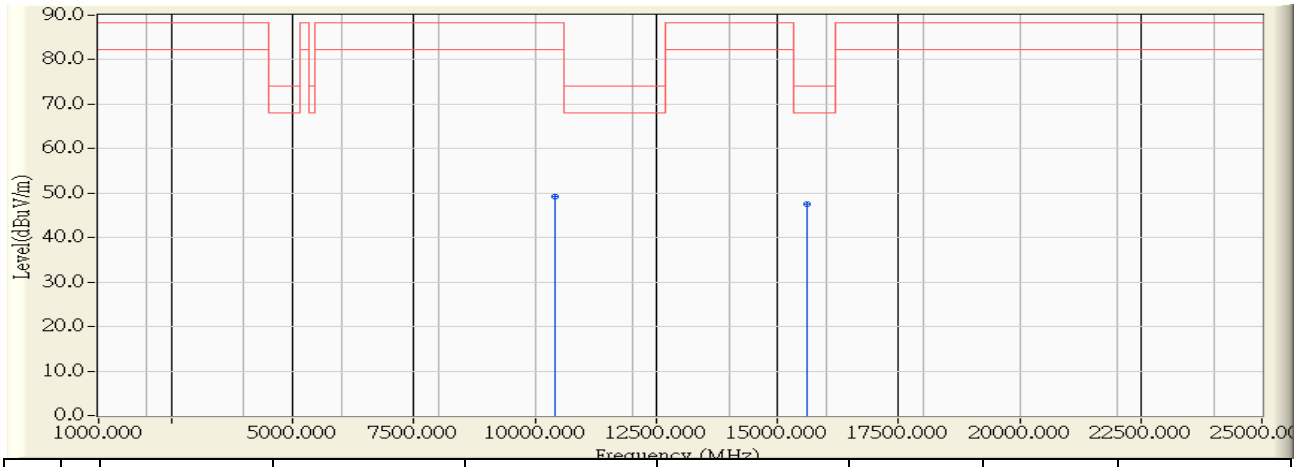


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10460.000	10.134	39.130	49.264	-39.036	88.300	PEAK
2	*	15690.000	10.942	37.760	48.702	-25.298	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection..

Site : CB1	**Time : 2013/08/27 - 16:40**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11ac80 5210MHz TX**

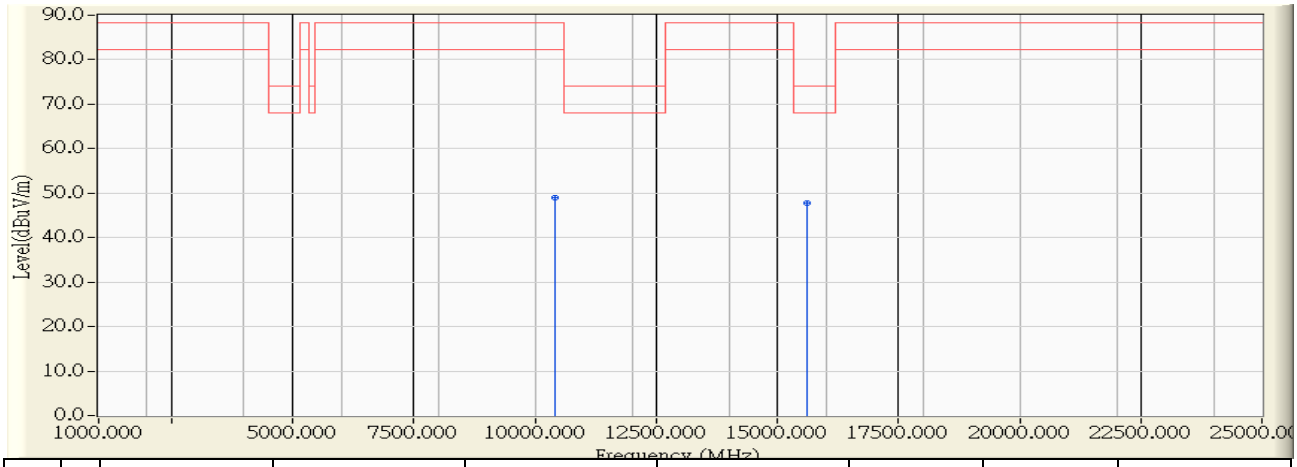


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10420.000	10.254	38.890	49.144	-39.156	88.300	PEAK
2	*	15630.000	11.009	36.620	47.629	-26.371	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 16:40**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11ac80 5210MHz TX**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		10420.000	10.254	38.690	48.944	-39.356	88.300	PEAK
2	*	15630.000	11.009	36.850	47.859	-26.141	74.000	PEAK

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

8. Band Edge

8.1. Test Equipment

The following test equipments are used during the band edge tests:

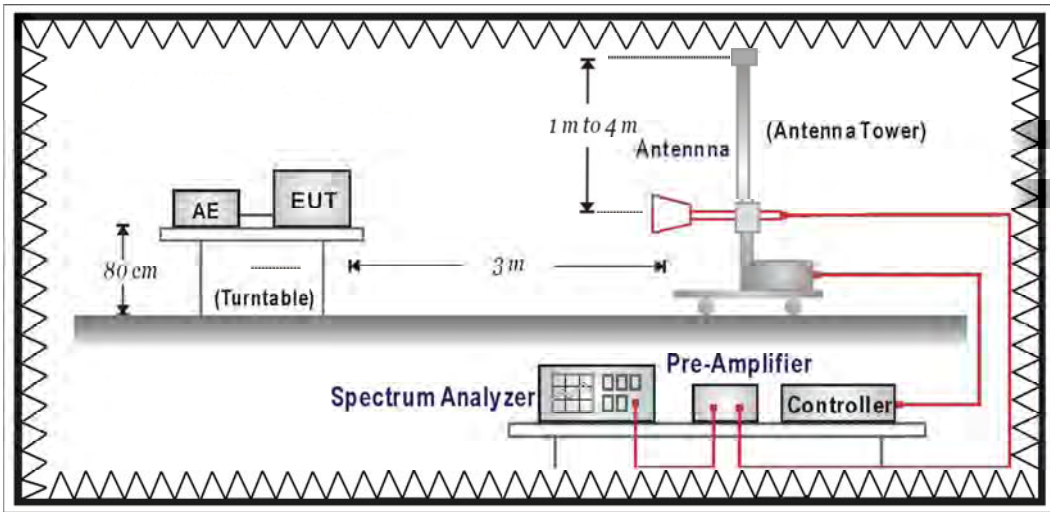
Radiated Emission Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2014/02/17
Spectrum Analyzer	Agilent	E4440A	MY46187335	2014/01/27
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2014/02/21

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

8.2. Test Setup

RF Radiated Measurement:



8.3. Limits

➢ **General Radiated Emission Limits**

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section. Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remark:

4. RF Voltage (dBuV) = 20 log RF Voltage (uV)
5. In the Above Table, the tighter limit applies at the band edges.
6. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

➢ **Unwanted Emission out of the restricted bands Limits**

FCC Part 15 Subpart C Paragraph 15.407(b) Limits		
Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (dBuV/m@3m)
5150~5250	-27	68.3
5250~5350	-27	68.3
5470~5725	-27	68.3
5725~5825	-27 (Note1)	68.3
	-17 (Note2)	78.3

Remark:

4. For frequencies more than 10 MHz above or below the band edges.
5. For frequency range from the band edges to 10 MHz above or below the band edges.
6. uV/m = $\frac{1000000\sqrt{30 \times EIRP}}{3}$, RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

8.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2009on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 KHz, above 1GHz are 1 MHz.

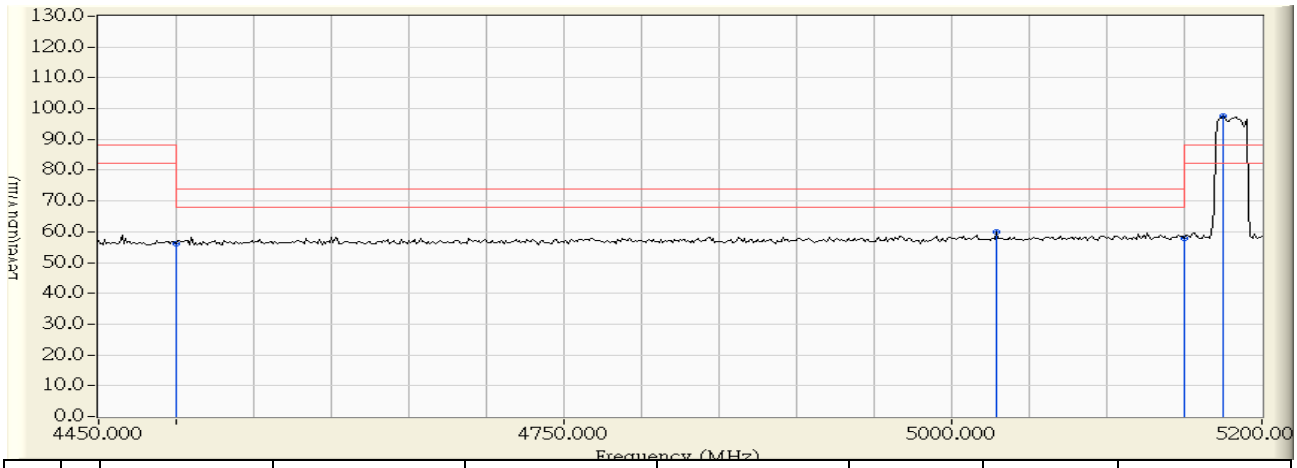
8.5. Uncertainty

The measurement uncertainty is defined as ± 3.65dB

8.6. Test Result

Radiated is defined as

Site : CB1	**Time : 2013/08/27 - 11:16**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11a 5180MHz**

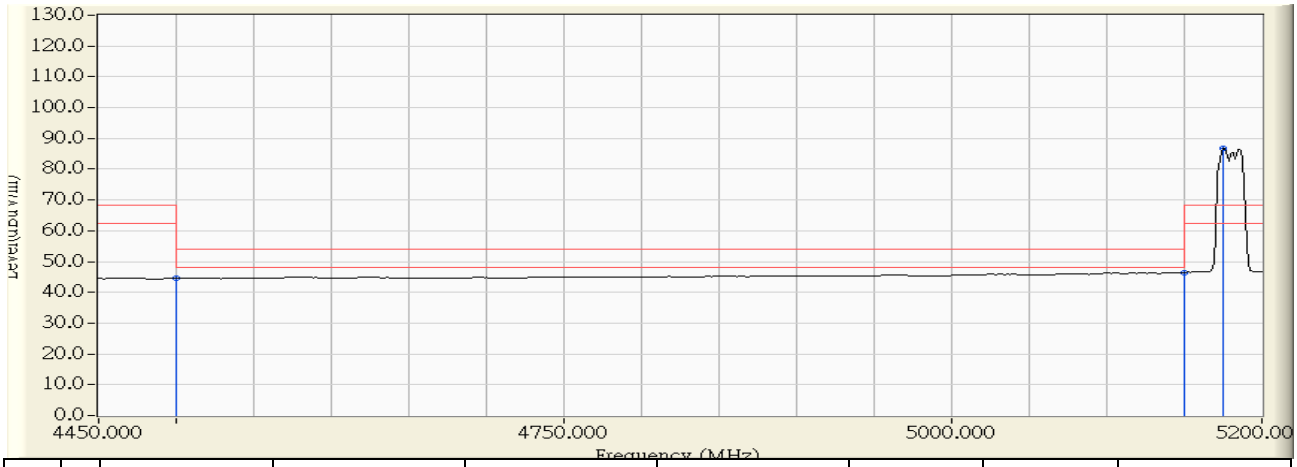


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	57.446	56.041	-17.959	74.000	PEAK
2		5028.750	0.035	59.912	59.947	-14.053	74.000	PEAK
3		5150.000	0.975	56.917	57.892	-16.108	74.000	PEAK
4	*	5175.000	1.169	96.539	97.708	9.408	88.300	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 11:17**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11a 5180MHz**

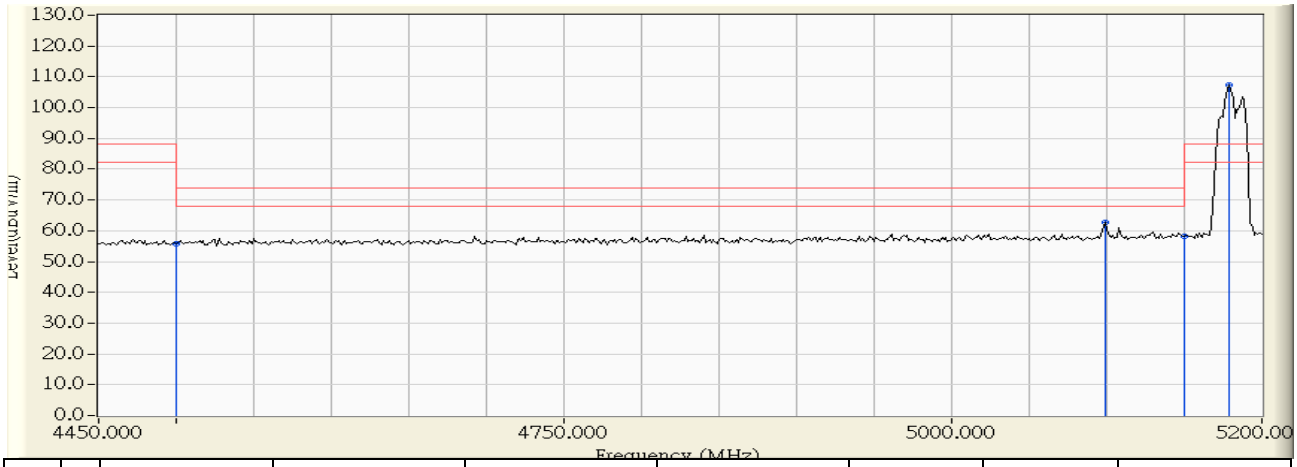


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.938	44.533	-9.467	54.000	AVERAGE
2		5150.000	0.975	45.427	46.402	-7.598	54.000	AVERAGE
3	*	5175.000	1.169	85.758	86.927	18.627	68.300	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 11:12**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11a 5180MHz**

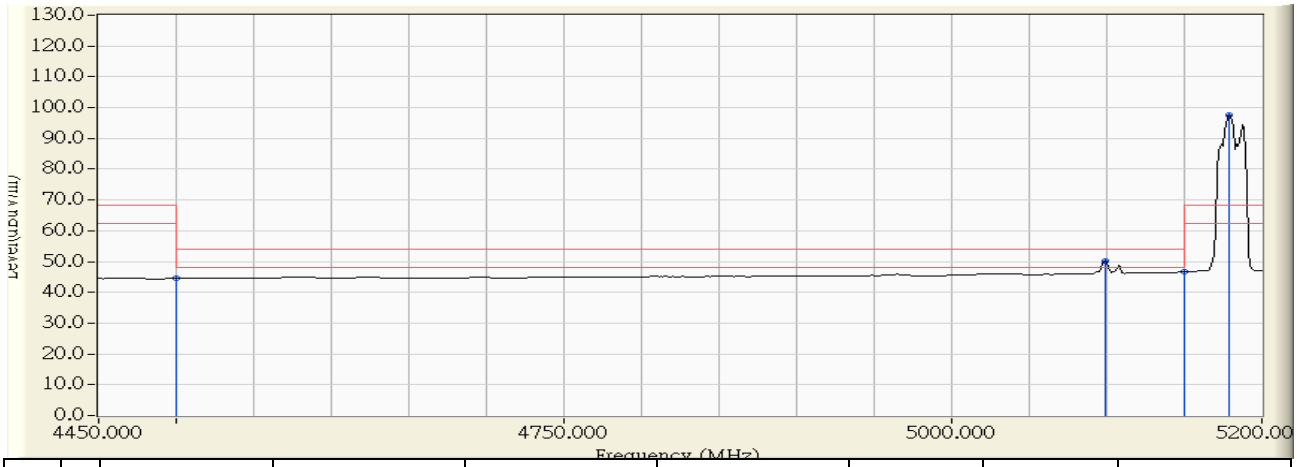


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	57.268	55.863	-18.137	74.000	PEAK
2		5098.750	0.578	62.247	62.825	-11.175	74.000	PEAK
3		5150.000	0.975	57.215	58.190	-15.810	74.000	PEAK
4	*	5178.750	1.198	106.179	107.377	19.077	88.300	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 11:13**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11a 5180MHz**

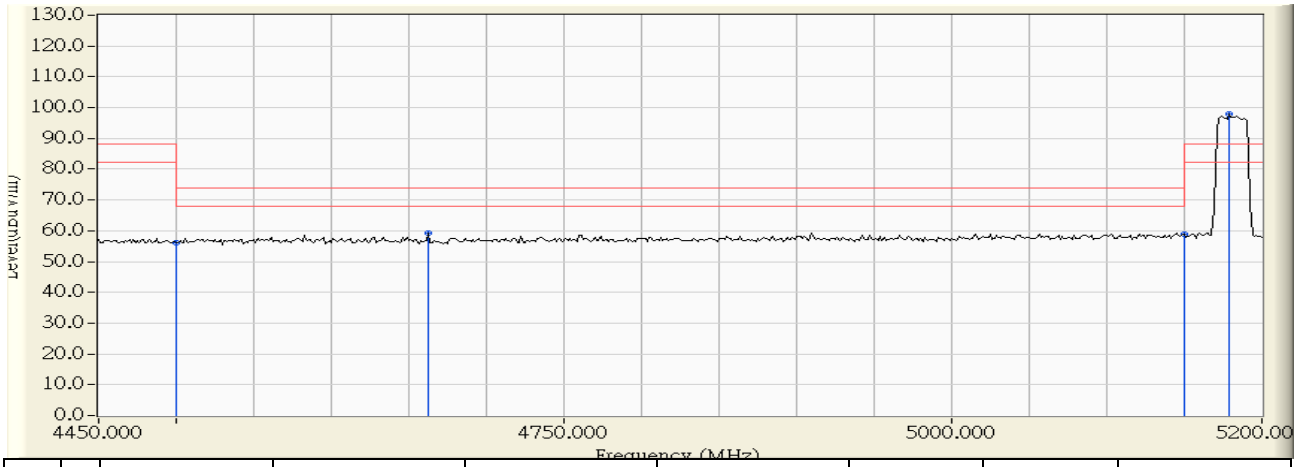


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.966	44.561	-9.439	54.000	AVERAGE
2		5098.750	0.578	49.629	50.207	-3.793	54.000	AVERAGE
3		5150.000	0.975	45.570	46.545	-7.455	54.000	AVERAGE
4	*	5178.750	1.198	96.534	97.732	29.432	68.300	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 11:33**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n20 5180MHz**

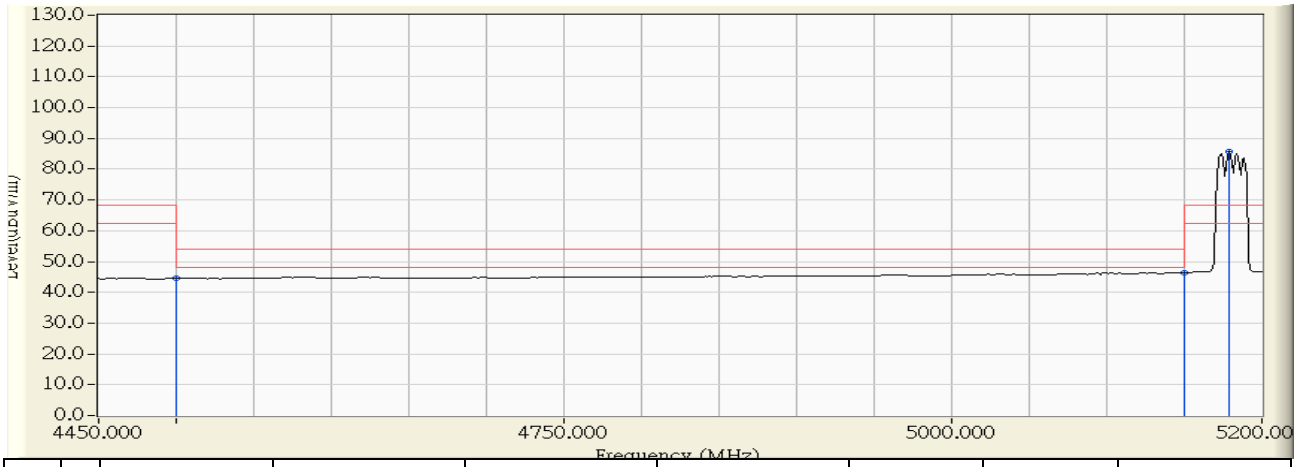


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	57.682	56.277	-17.723	74.000	PEAK
2		4662.500	-1.010	60.251	59.241	-14.759	74.000	PEAK
3		5150.000	0.975	57.971	58.946	-15.054	74.000	PEAK
4	*	5178.750	1.198	96.768	97.966	9.666	88.300	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 11:35**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n20 5180MHz**

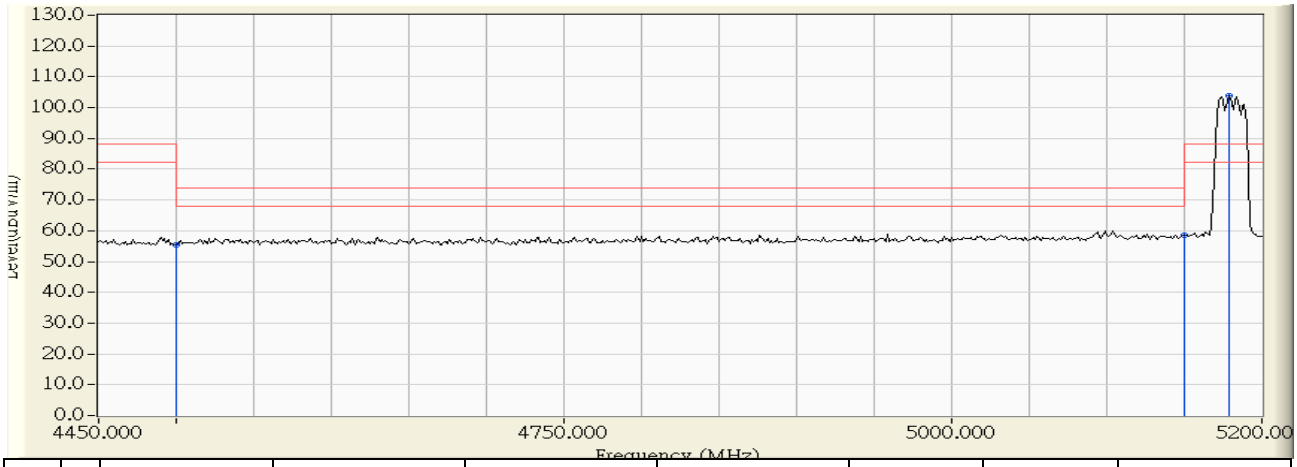


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.963	44.558	-9.442	54.000	AVERAGE
2		5150.000	0.975	45.424	46.399	-7.601	54.000	AVERAGE
3	*	5178.750	1.198	84.475	85.673	17.373	68.300	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 11:28**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n20 5180MHz**

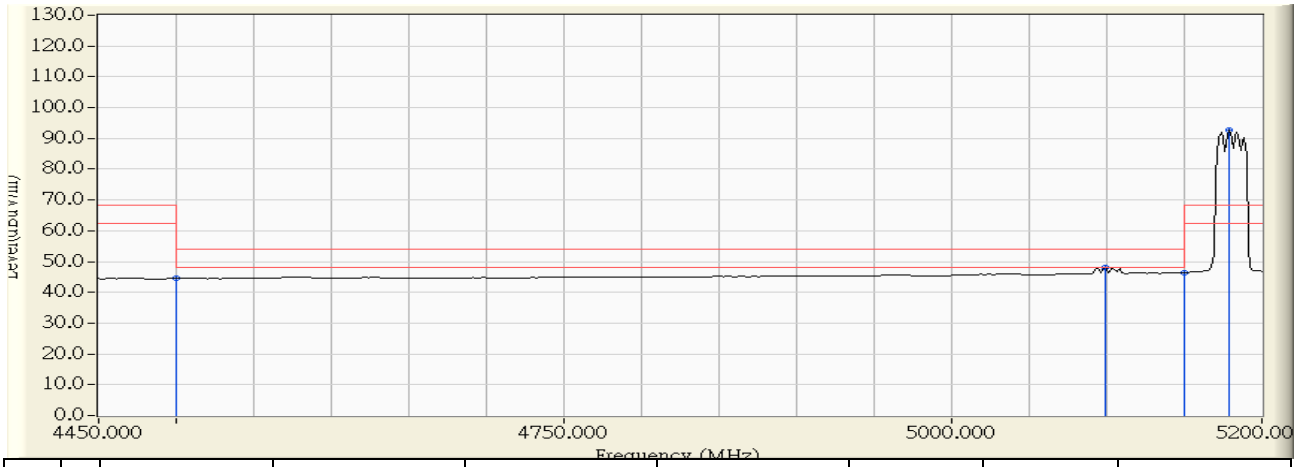


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	56.709	55.304	-18.696	74.000	PEAK
2		5150.000	0.975	57.655	58.630	-15.370	74.000	PEAK
3	*	5178.750	1.198	102.773	103.971	15.671	88.300	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 11:30**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n20 5180MHz**

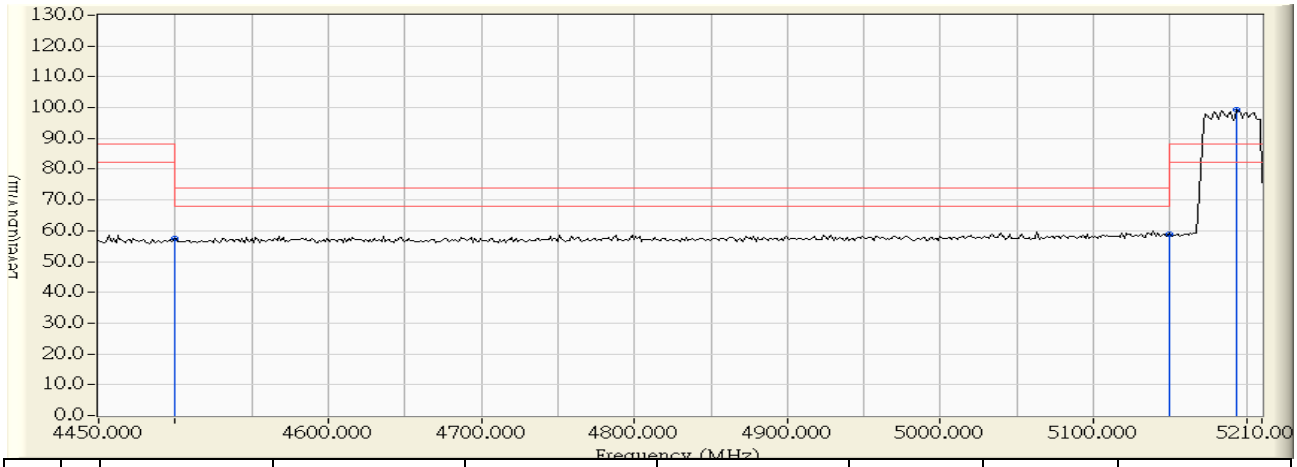


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.913	44.508	-9.492	54.000	AVERAGE
2		5098.750	0.578	47.692	48.270	-5.730	54.000	AVERAGE
3		5150.000	0.975	45.462	46.437	-7.563	54.000	AVERAGE
4	*	5178.750	1.198	91.548	92.746	24.446	68.300	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 11:37**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n40 5190MHz**

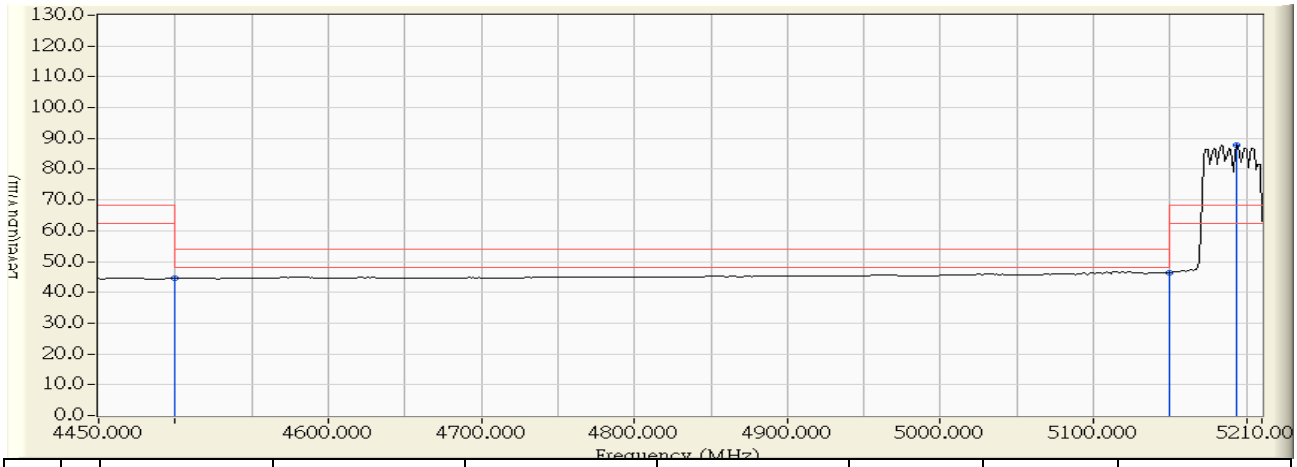


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	58.834	57.429	-16.571	74.000	PEAK
2		5150.000	0.975	57.798	58.773	-15.227	74.000	PEAK
3	*	5193.533	1.313	98.028	99.341	11.041	88.300	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 11:39**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n40 5190MHz**

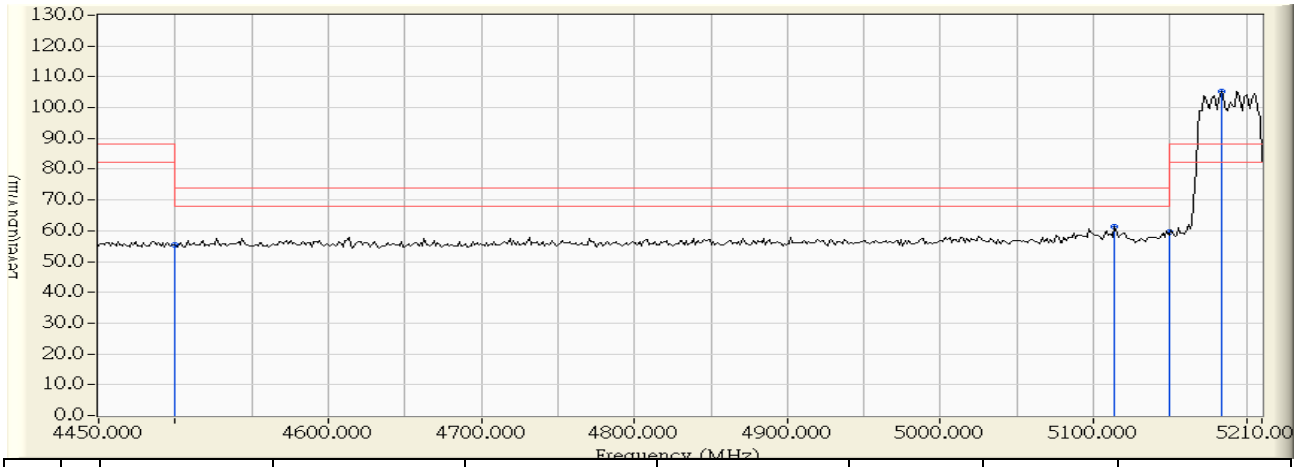


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.950	44.545	-9.455	54.000	AVERAGE
2		5150.000	0.975	45.484	46.459	-7.541	54.000	AVERAGE
3	*	5193.533	1.313	86.552	87.865	19.565	68.300	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 11:41**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n40 5190MHz**

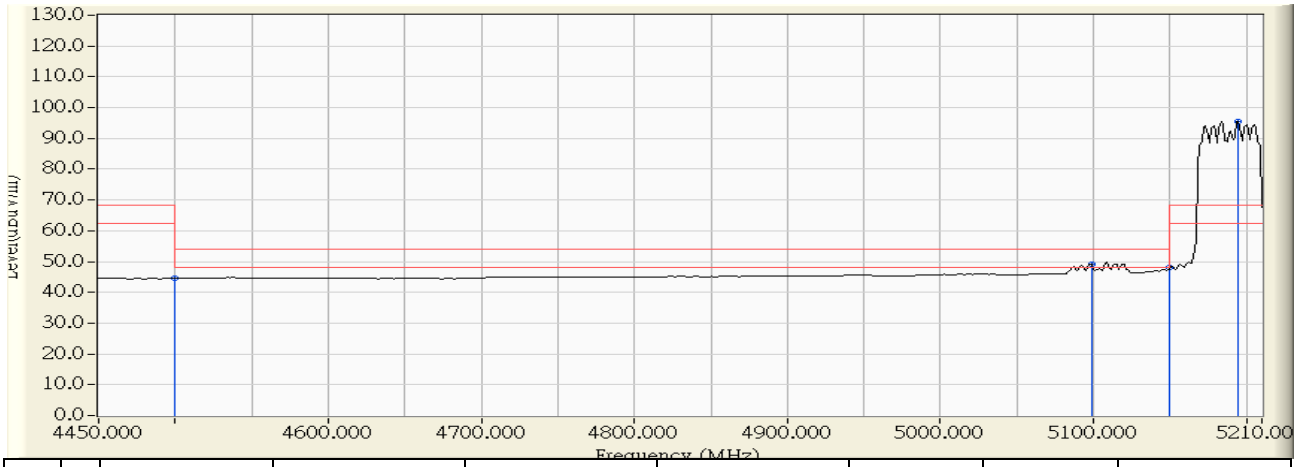


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	56.803	55.398	-18.602	74.000	PEAK
2		5113.733	0.694	60.705	61.399	-12.601	74.000	PEAK
3		5150.000	0.975	58.643	59.618	-14.382	74.000	PEAK
4	*	5183.400	1.234	104.056	105.290	16.990	88.300	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 11:42**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11n40 5190MHz**

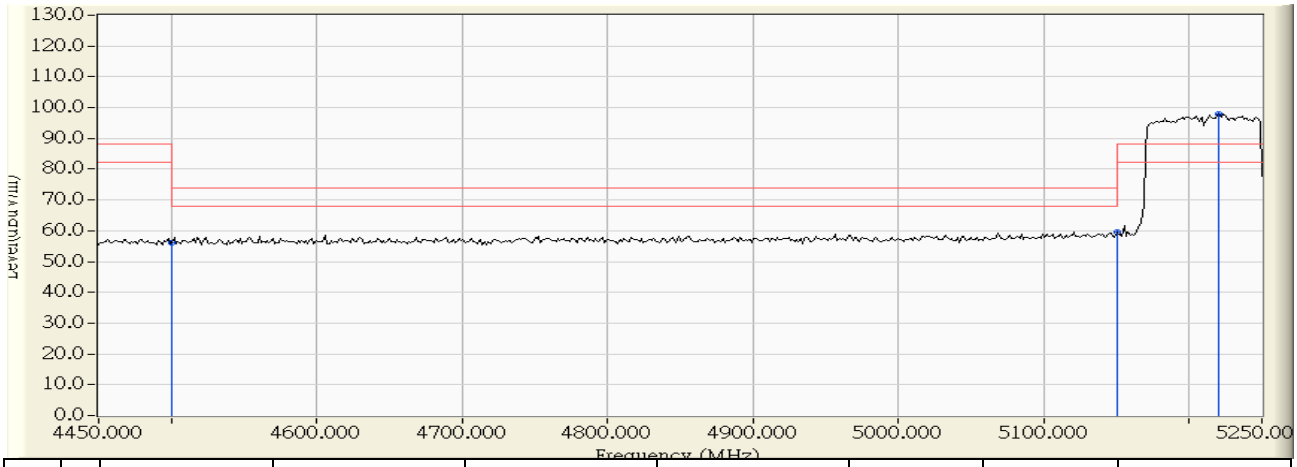


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.933	44.528	-9.472	54.000	AVERAGE
2		5098.533	0.576	48.662	49.238	-4.762	54.000	AVERAGE
3		5150.000	0.975	47.038	48.013	-5.987	54.000	AVERAGE
4	*	5194.800	1.323	94.212	95.535	27.235	68.300	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 11:48**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11ac(80M) 5210MHz**

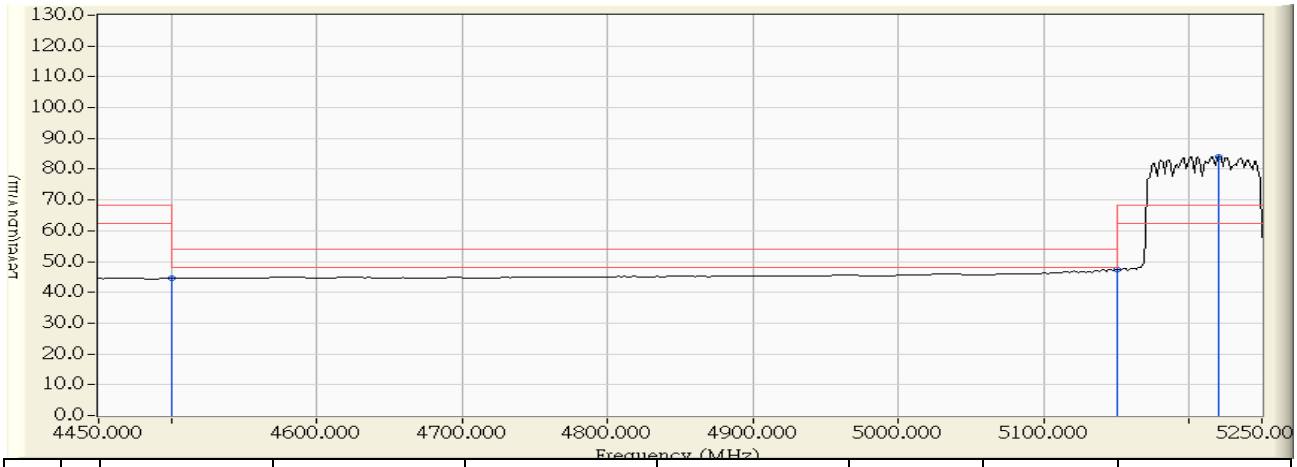


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	57.441	56.036	-17.964	74.000	PEAK
2		5150.000	0.975	58.797	59.772	-14.228	74.000	PEAK
3	*	5220.667	1.524	96.550	98.073	9.773	88.300	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 11:50**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11ac(80M) 5210MHz**

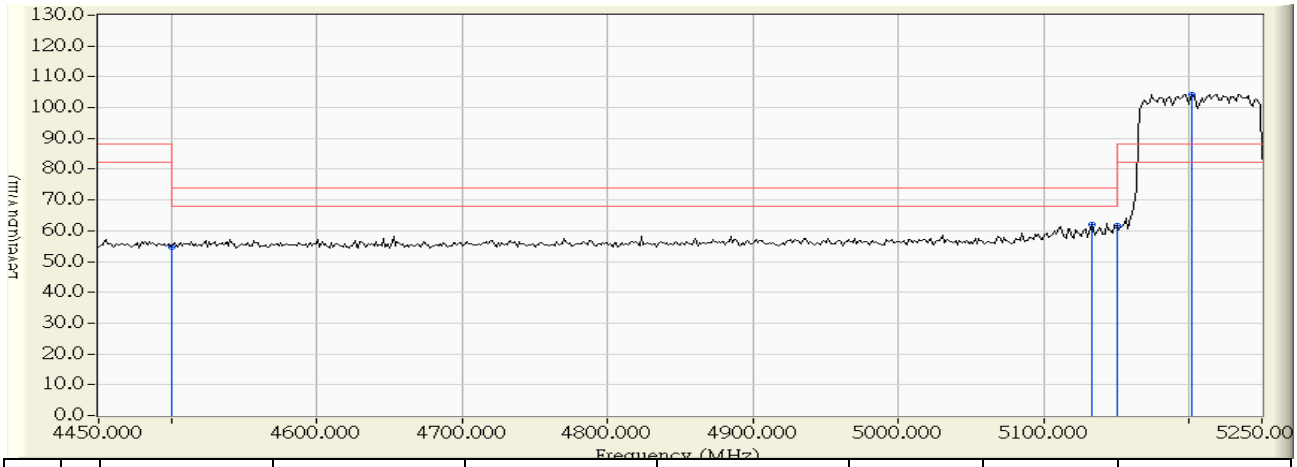


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.957	44.552	-9.448	54.000	AVERAGE
2		5150.000	0.975	46.460	47.435	-6.565	54.000	AVERAGE
3	*	5220.667	1.524	82.528	84.051	15.751	68.300	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 11:44**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11ac(80M) 5210MHz**

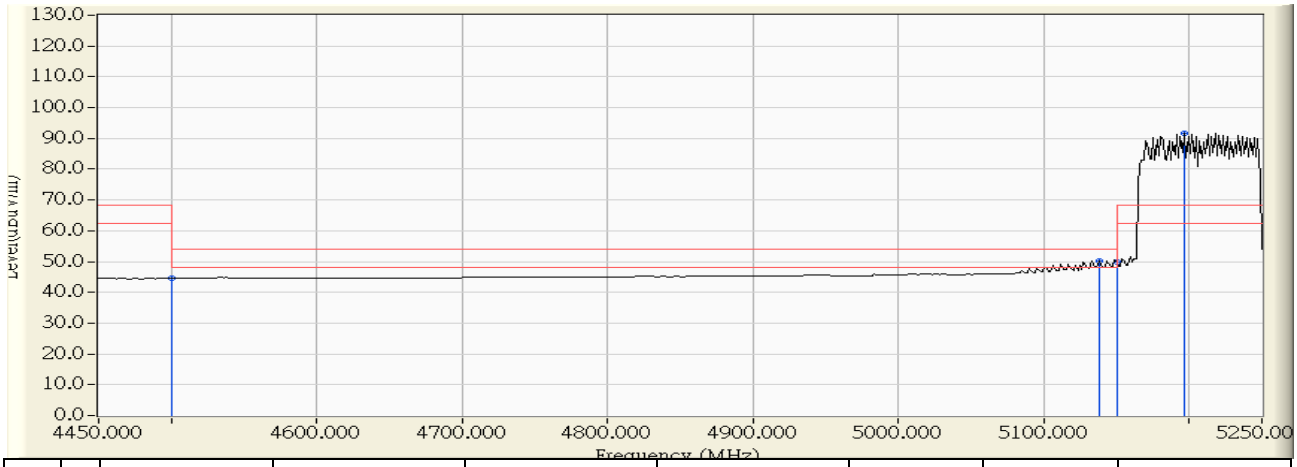


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	56.247	54.842	-19.158	74.000	PEAK
2		5132.667	0.841	61.186	62.027	-11.973	74.000	PEAK
3		5150.000	0.975	60.720	61.695	-12.305	74.000	PEAK
4	*	5202.000	1.379	102.951	104.330	16.030	88.300	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2013/08/27 - 11:45**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Wireless-AC1900 Dual Band Gigabit Router	**Note : Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH-802.11ac(80M) 5210MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4500.000	-1.406	45.945	44.540	-9.460	54.000	AVERAGE
2		5138.000	0.882	49.304	50.186	-3.814	54.000	AVERAGE
3		5150.000	0.975	48.998	49.973	-4.027	54.000	AVERAGE
4	*	5196.667	1.337	90.234	91.571	23.271	68.300	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

9. Frequency Stability

9.1. Test Equipment

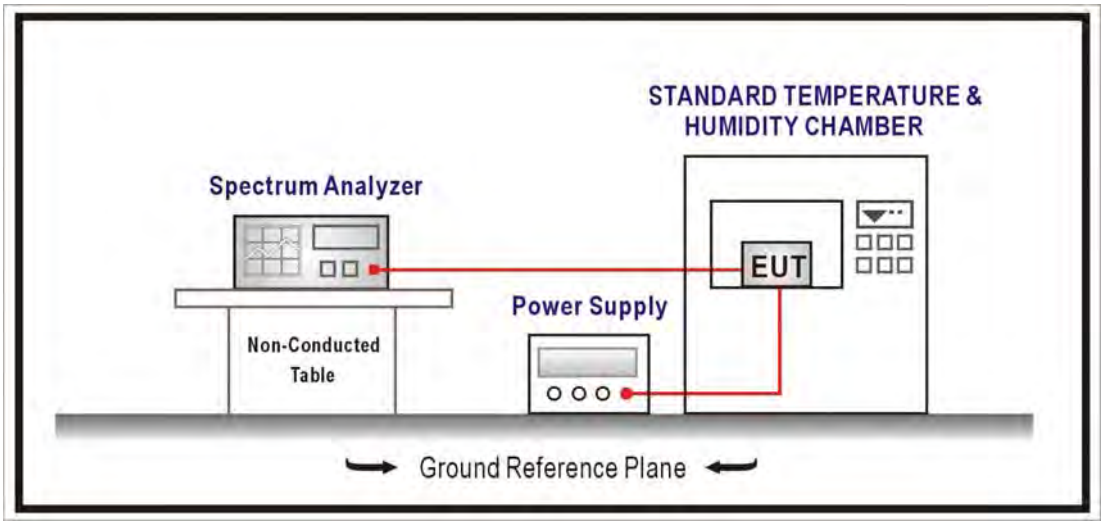
The following test equipments are used during the radiated emission tests:

Frequency Stability / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2013/07/31
Standard Temperature & Humidity Chamber	WIT	TH-1S-B	1082101	2014/01/27

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

9.2. Test Setup



9.3. Limits

Manufactures of aII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified

9.4. Test Procedure

The EUT was setup to ANSI C63.4, 2009; tested to U-NII test procedure of KDB 789033 for compliance to FCC 47CFR Subpart E requirements.

9.5. Uncertainty

The measurement uncertainty is defined as ± 150 Hz

9.6. Test Result

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11a - 5180MHz(ANT 0)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.1878	36.2516	PASS
-10		5180.6549	126.4298	PASS
0		5180.6654	128.4526	PASS
10		5180.2211	42.6912	PASS
20		5180.5328	102.8609	PASS
30		5180.4745	91.5986	PASS
40		5180.6562	126.6741	PASS
50		5180.6113	118.0042	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.1143	22.0599	PASS
	120	5180.8107	156.5118	PASS
	138	5180.6492	125.3296	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11a - 5240MHz(ANT 0)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.6554	125.0744	PASS
-10		5240.1937	36.9744	PASS
0		5240.5294	101.0342	PASS
10		5240.5703	108.8416	PASS
20		5240.5065	96.6607	PASS
30		5240.6521	124.4468	PASS
40		5240.4757	90.7904	PASS
50		5240.0608	11.6060	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.7451	142.1966	PASS
	120	5240.0370	7.0667	PASS
	138	5240.0326	6.2246	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11a - 5180MHz(ANT 1)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.2743	52.9516	PASS
-10		5180.1668	32.1922	PASS
0		5180.0973	18.7895	PASS
10		5180.8082	156.0322	PASS
20		5180.8328	160.7756	PASS
30		5180.4275	82.5237	PASS
40		5180.4095	79.0559	PASS
50		5180.8260	159.4671	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.2843	54.8900	PASS
	120	5180.4404	85.0192	PASS
	138	5180.8658	167.1404	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11a - 5240MHz(ANT 1)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.3651	69.6767	PASS
-10		5240.7084	135.1993	PASS
0		5240.5260	100.3748	PASS
10		5240.7622	145.4562	PASS
20		5240.7656	146.1133	PASS
30		5240.8784	167.6376	PASS
40		5240.0004	0.0716	PASS
50		5240.2565	48.9567	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.2696	51.4552	PASS
	120	5240.0803	15.3227	PASS
	138	5240.0233	4.4413	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11a - 5180MHz(ANT 2)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.3306	63.8262	PASS
-10		5180.2167	41.8423	PASS
0		5180.0017	0.3198	PASS
10		5180.1110	21.4302	PASS
20		5180.6549	126.4372	PASS
30		5180.0266	5.1436	PASS
40		5180.0123	2.3777	PASS
50		5180.5690	109.8457	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.2593	50.0506	PASS
	120	5180.0968	18.6784	PASS
	138	5180.8852	170.8828	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11a - 5240MHz(ANT 2)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.4461	85.1414	PASS
-10		5240.4975	94.9389	PASS
0		5240.0397	7.5856	PASS
10		5240.2753	52.5329	PASS
20		5240.4490	85.6958	PASS
30		5240.2808	53.5899	PASS
40		5240.7689	146.7382	PASS
50		5240.3916	74.7382	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.7149	136.4308	PASS
	120	5240.6912	131.9114	PASS
	138	5240.1055	20.1316	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11n_20M - 5180MHz(ANT 0)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.4482	86.5330	PASS
-10		5180.1718	33.1639	PASS
0		5180.7929	153.0614	PASS
10		5180.2154	41.5838	PASS
20		5180.3666	70.7783	PASS
30		5180.7350	141.8826	PASS
40		5180.2252	43.4672	PASS
50		5180.0585	11.3001	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.5614	108.3689	PASS
	120	5180.3240	62.5528	PASS
	138	5180.1703	32.8789	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11n_20M - 5240MHz(ANT 0)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.3989	76.1308	PASS
-10		5240.0471	8.9866	PASS
0		5240.8327	158.9141	PASS
10		5240.4704	89.7696	PASS
20		5240.2314	44.1568	PASS
30		5240.5560	106.1006	PASS
40		5240.5919	112.9569	PASS
50		5240.4966	94.7631	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.2323	44.3329	PASS
	120	5240.7312	139.5326	PASS
	138	5240.6606	126.0659	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11n_20M - 5180MHz(ANT 1)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.4627	89.3232	PASS
-10		5180.4260	82.2360	PASS
0		5180.1453	28.0405	PASS
10		5180.6642	128.2270	PASS
20		5180.2298	44.3632	PASS
30		5180.5600	108.1131	PASS
40		5180.1691	32.6503	PASS
50		5180.8129	156.9211	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.2557	49.3693	PASS
	120	5180.6188	119.4679	PASS
	138	5180.3350	64.6775	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11n_20M - 5240MHz(ANT 1)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.8549	163.1394	PASS
-10		5240.1285	24.5319	PASS
0		5240.3961	75.5861	PASS
10		5240.5036	96.1078	PASS
20		5240.7225	137.8820	PASS
30		5240.2893	55.2193	PASS
40		5240.6343	121.0567	PASS
50		5240.5734	109.4263	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.6286	119.9643	PASS
	120	5240.1478	28.1975	PASS
	138	5240.1215	23.1955	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11n_20M - 5180MHz(ANT 2)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.1067	20.6033	PASS
-10		5180.1862	35.9455	PASS
0		5180.4630	89.3862	PASS
10		5180.4533	87.5180	PASS
20		5180.4935	95.2710	PASS
30		5180.4166	80.4336	PASS
40		5180.4763	91.9453	PASS
50		5180.4574	88.3101	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.4756	91.8160	PASS
	120	5180.2550	49.2279	PASS
	138	5180.2381	45.9560	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11n_20M - 5240MHz(ANT 2)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.7617	145.3533	PASS
-10		5240.5998	114.4663	PASS
0		5240.6880	131.2903	PASS
10		5240.0828	15.7951	PASS
20		5240.1321	25.2087	PASS
30		5240.2187	41.7340	PASS
40		5240.5615	107.1600	PASS
50		5240.3278	62.5610	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.3495	66.6986	PASS
	120	5240.8246	157.3653	PASS
	138	5240.3880	74.0437	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11n_40M - 5190MHz(ANT 0)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5190.5884	113.3653	PASS
-10		5190.8895	171.3945	PASS
0		5190.1813	34.9383	PASS
10		5190.5334	102.7652	PASS
20		5190.0206	3.9721	PASS
30		5190.4277	82.4141	PASS
40		5190.1122	21.6278	PASS
50		5190.0996	19.1849	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5190.5138	98.9980	PASS
	120	5190.6530	125.8276	PASS
	138	5190.0513	9.8862	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11n_40M - 5230MHz(ANT 0)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5230.5607	107.2167	PASS
-10		5230.2642	50.5163	PASS
0		5230.5024	96.0626	PASS
10		5230.7503	143.4513	PASS
20		5230.3946	75.4562	PASS
30		5230.4726	90.3618	PASS
40		5230.6939	132.6775	PASS
50		5230.6847	130.9233	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5230.7795	149.0384	PASS
	120	5230.8822	168.6728	PASS
	138	5230.0232	4.4441	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11n_40M - 5190MHz(ANT 1)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5190.8275	159.4329	PASS
-10		5190.1341	25.8294	PASS
0		5190.2384	45.9421	PASS
10		5190.3960	76.2937	PASS
20		5190.7148	137.7344	PASS
30		5190.8966	172.7518	PASS
40		5190.6227	119.9869	PASS
50		5190.0159	3.0671	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5190.1881	36.2352	PASS
	120	5190.7928	152.7517	PASS
	138	5190.6694	128.9766	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11n_40M - 5230MHz(ANT 1)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5230.4207	80.4391	PASS
-10		5230.8766	167.6009	PASS
0		5230.7525	143.8781	PASS
10		5230.0764	14.6044	PASS
20		5230.4333	82.8515	PASS
30		5230.7186	137.4088	PASS
40		5230.0438	8.3827	PASS
50		5230.8904	170.2505	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5230.5020	95.9849	PASS
	120	5230.1367	26.1467	PASS
	138	5230.4369	83.5335	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11n_40M - 5190MHz(ANT 2)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5190.3513	67.6941	PASS
-10		5190.7509	144.6779	PASS
0		5190.0942	18.1588	PASS
10		5190.4126	79.4963	PASS
20		5190.8533	164.4042	PASS
30		5190.0644	12.4136	PASS
40		5190.2243	43.2126	PASS
50		5190.4929	94.9721	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5190.4860	93.6386	PASS
	120	5190.8918	171.8227	PASS
	138	5190.8234	158.6434	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11n_40M - 5230MHz(ANT 2)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5230.6148	117.5562	PASS
-10		5230.1414	27.0351	PASS
0		5230.7318	139.9321	PASS
10		5230.3830	73.2295	PASS
20		5230.8101	154.9013	PASS
30		5230.8169	156.1950	PASS
40		5230.4765	91.1157	PASS
50		5230.8931	170.7612	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5230.0096	1.8410	PASS
	120	5230.1115	21.3242	PASS
	138	5230.4130	78.9592	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11ac_80M - 5210MHz(ANT 0)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5210.6767	129.8803	PASS
-10		5210.7939	152.3890	PASS
0		5210.7999	153.5361	PASS
10		5210.7180	137.8076	PASS
20		5210.8616	165.3810	PASS
30		5210.5973	114.6465	PASS
40		5210.7487	143.7087	PASS
50		5210.2613	50.1550	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5210.7420	142.4120	PASS
	120	5210.7499	143.9318	PASS
	138	5210.7738	148.5150	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11ac_80M - 5210MHz(ANT 1)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5210.4415	84.7359	PASS
-10		5210.5357	102.8142	PASS
0		5210.4117	79.0200	PASS
10		5210.4618	88.6457	PASS
20		5210.0909	17.4486	PASS
30		5210.7064	135.5908	PASS
40		5210.2034	39.0460	PASS
50		5210.6493	124.6235	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5210.8544	163.9865	PASS
	120	5210.0864	16.5849	PASS
	138	5210.1995	38.2853	PASS

Product	Wireless-AC1900 Dual Band Gigabit Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit (CDD Mode)_Adapter: EXA1206UH - 802.11ac_80M - 5210MHz(ANT 2)		
Date of Test	2013/05/02	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5210.0459	8.8140	PASS
-10		5210.2672	51.2837	PASS
0		5210.6644	127.5175	PASS
10		5210.2840	54.5087	PASS
20		5210.1272	24.4227	PASS
30		5210.7256	139.2720	PASS
40		5210.4864	93.3668	PASS
50		5210.0993	19.0562	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5210.2376	45.6014	PASS
	120	5210.6084	116.7844	PASS
	138	5210.6241	119.7867	PASS