5. Peak Power Spectrum Density

5.1. Test Equipment

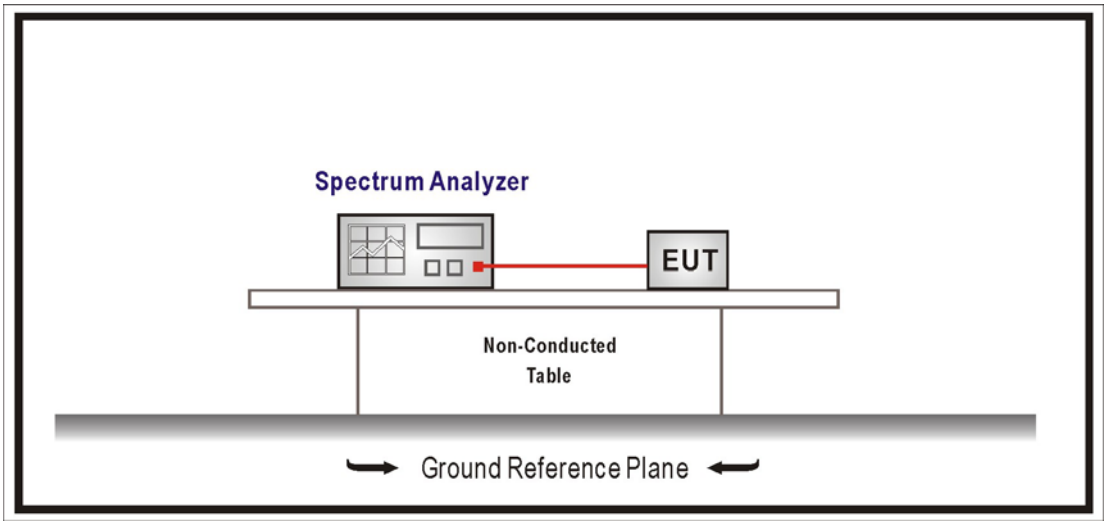
The following test equipments are used during the radiated emission tests:

Peak Power Spectrum Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19

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

5.2. Test Setup



5.3. Limits

1. For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For the band 5.25-5.35 GHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.825 GHz, the peak power spectral density shall not exceed 17 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

5.4. Test Procedure

The EUT was setup to ANSI C63.4, 2009; tested to U-NII test procedure of March 2012 KDB 789033 for compliance to FCC 47CFR Subpart E requirements.

Set RBW=1MHz, VBW=3MHz with RMS detector. The PPSD is the highest level found across the emission in any 1-MHz band after 100 sweeps of averaging.

5.5. Uncertainty

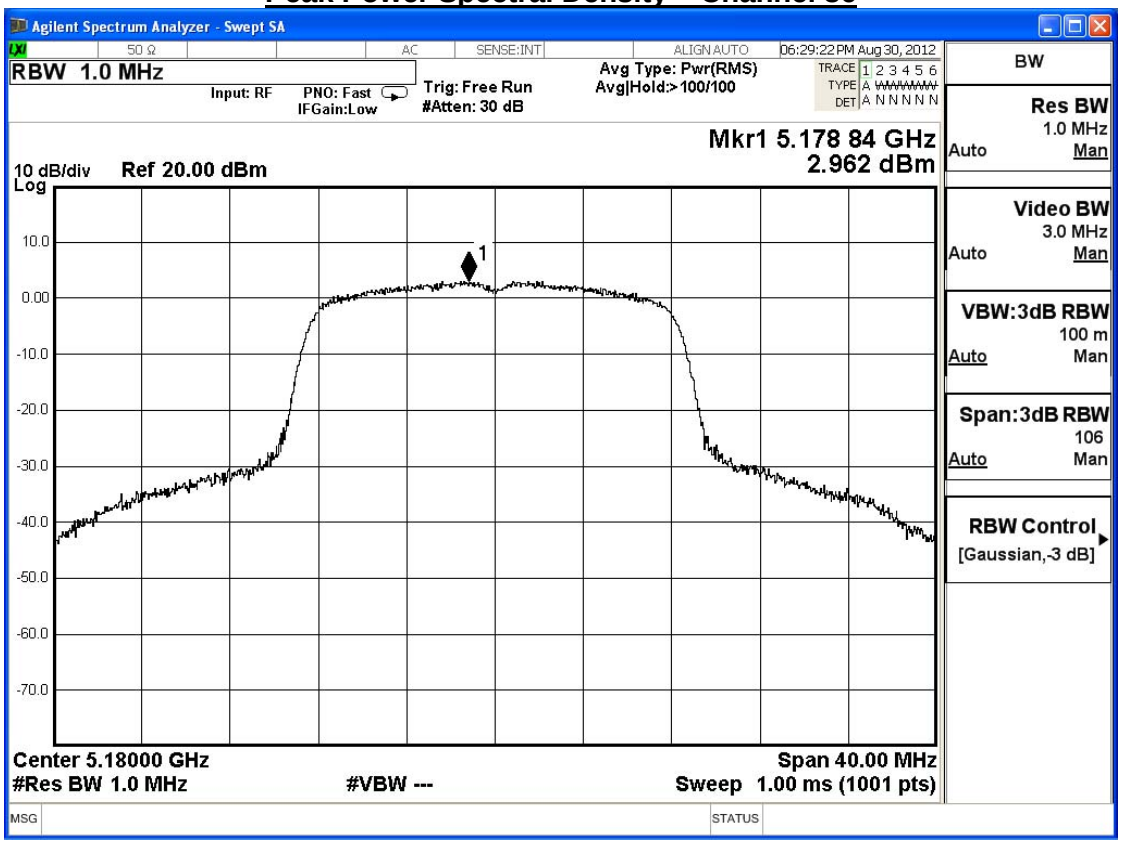
The measurement uncertainty is defined as ± 1.27 dB

5.6. Test Result

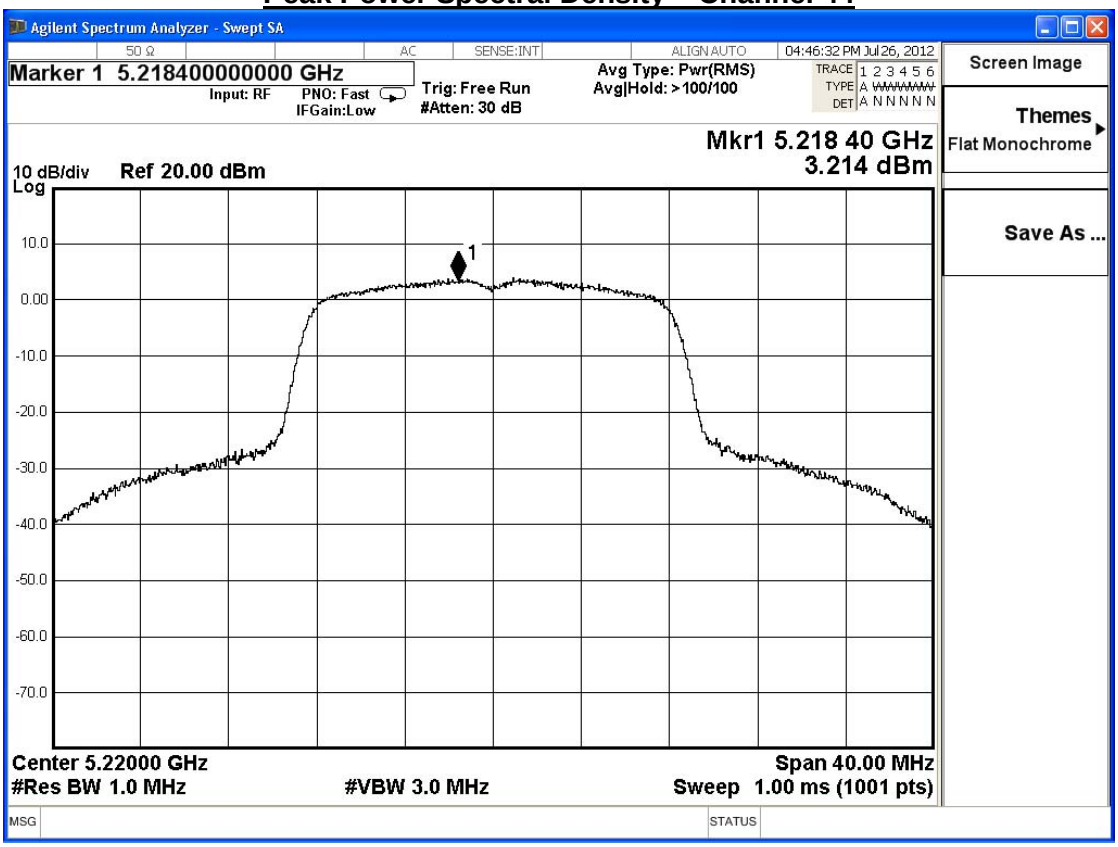
Product	5G+2.4G 2T2R AP FMC		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/07/26	Test Site	SR7

IEEE 802.11a				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
36	5180	2.926	≦4	Pass
44	5220	3.214	≦4	Pass
48	5240	2.861	≦4	Pass

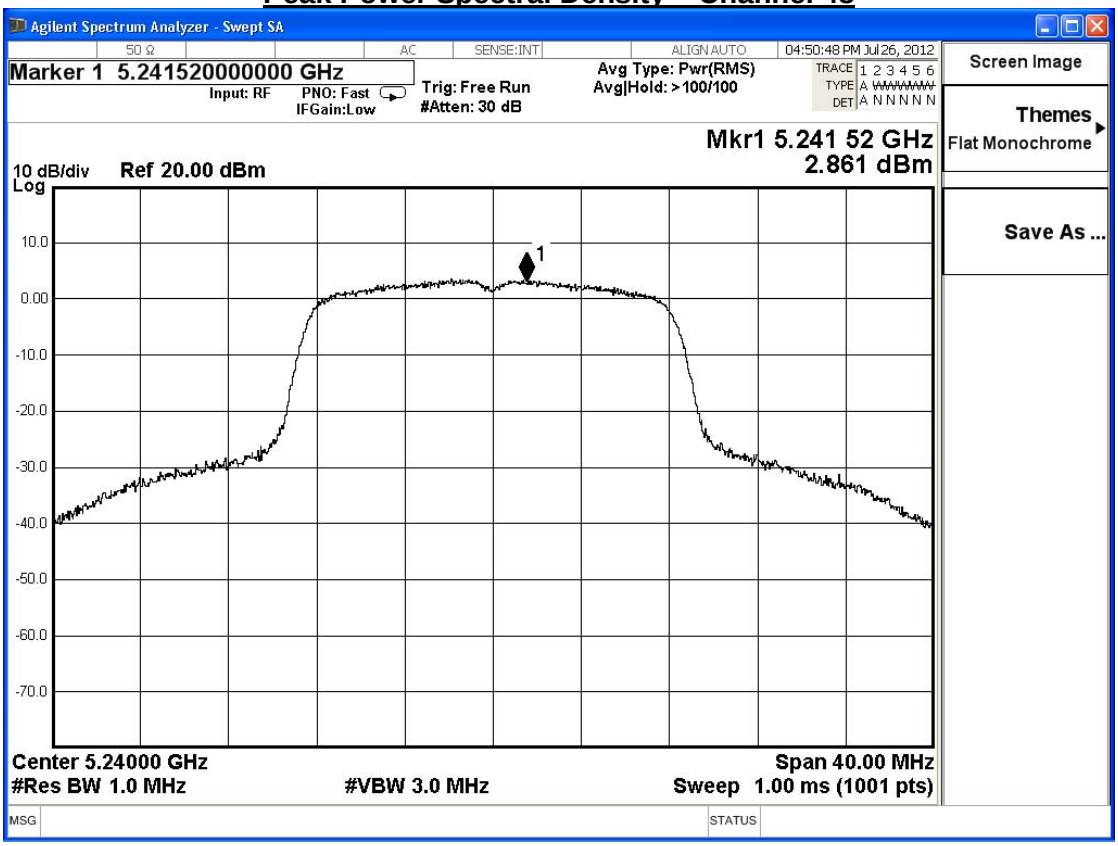
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



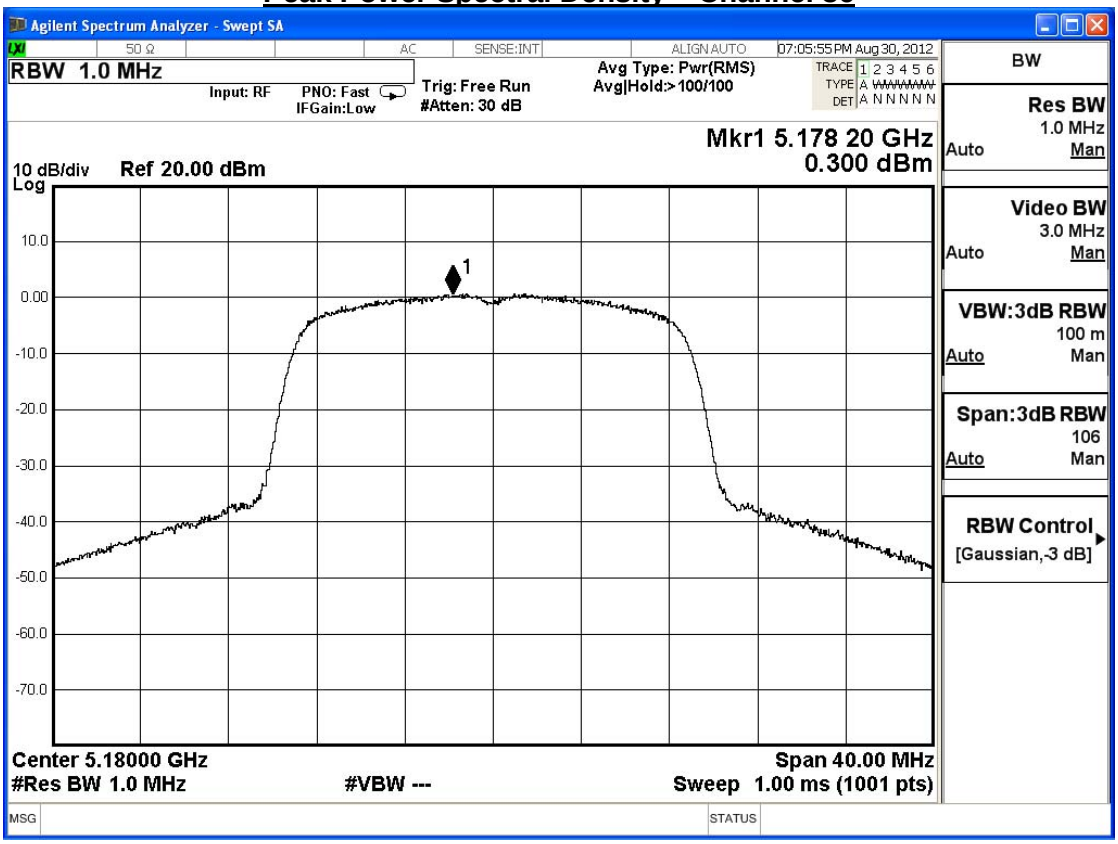
Peak Power Spectral Density – Channel 48



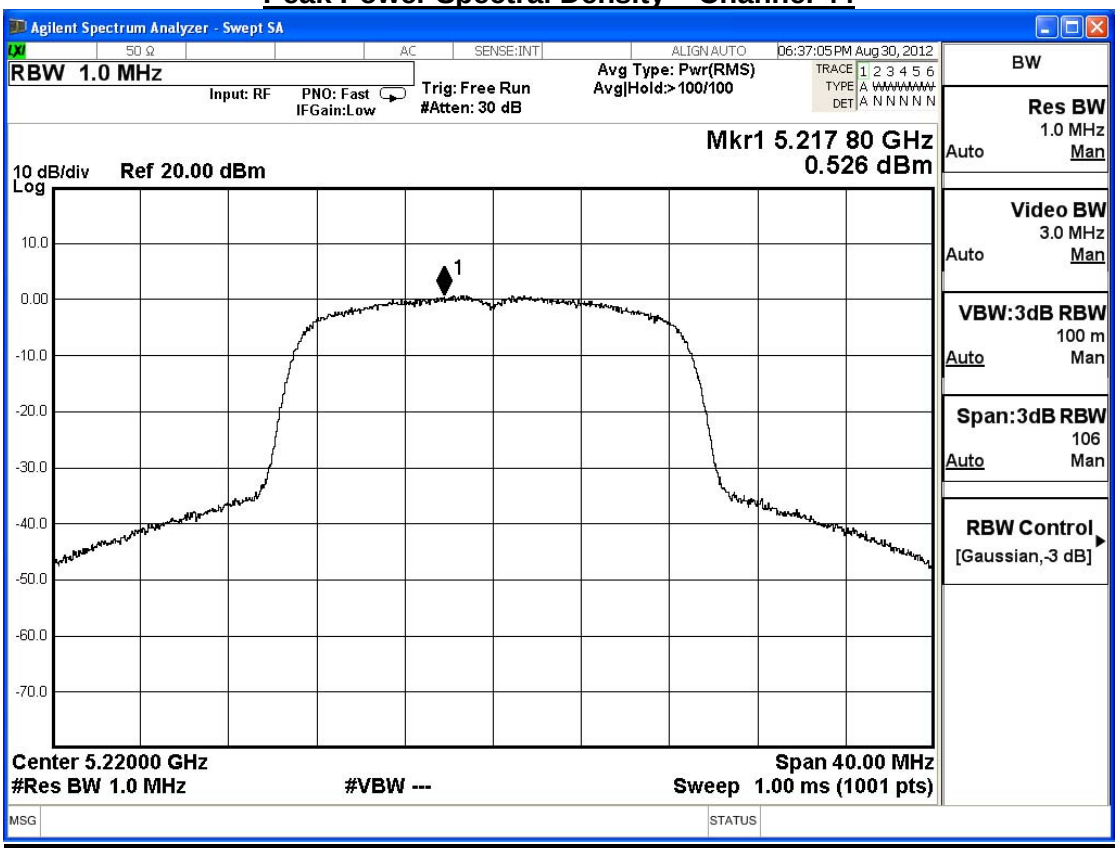
Product	5G+2.4G 2T2R AP FMC		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/07/26	Test Site	SR7

IEEE 802.11n_20M(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
36	5180	0.300	≦4	Pass
44	5220	0.526	≦4	Pass
48	5240	0.467	≦4	Pass

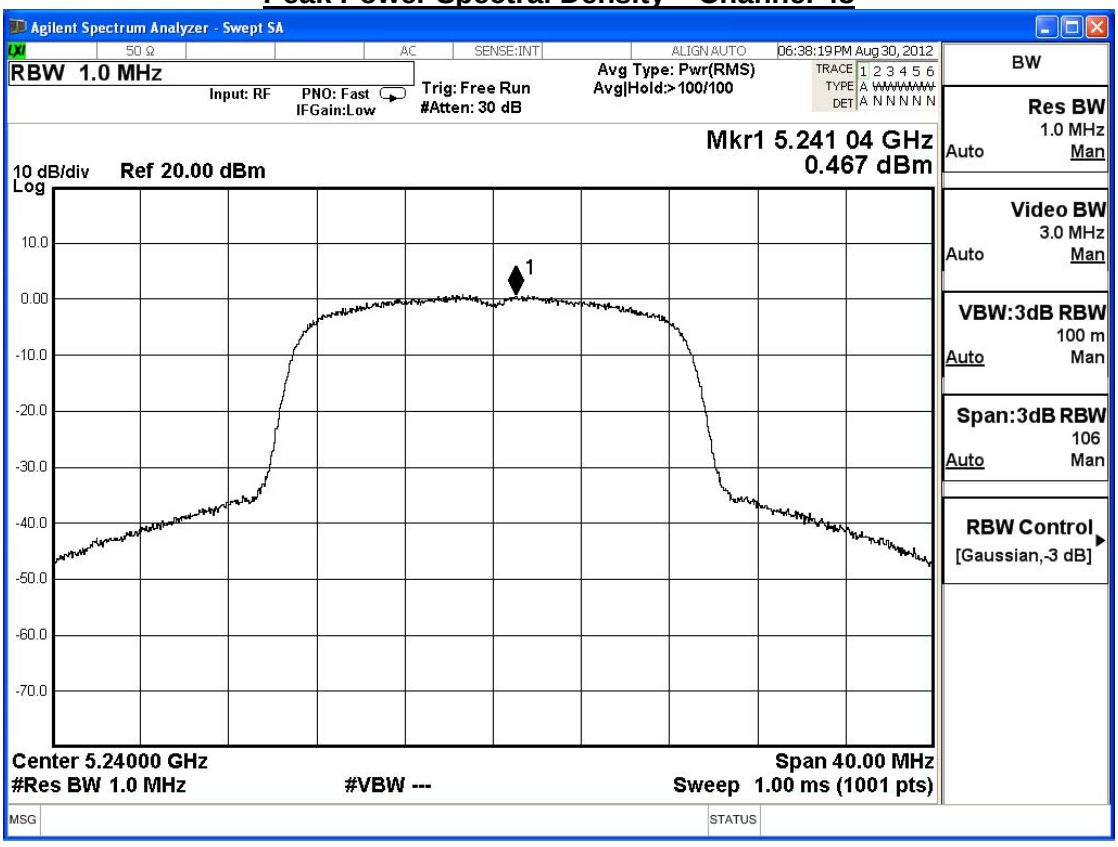
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



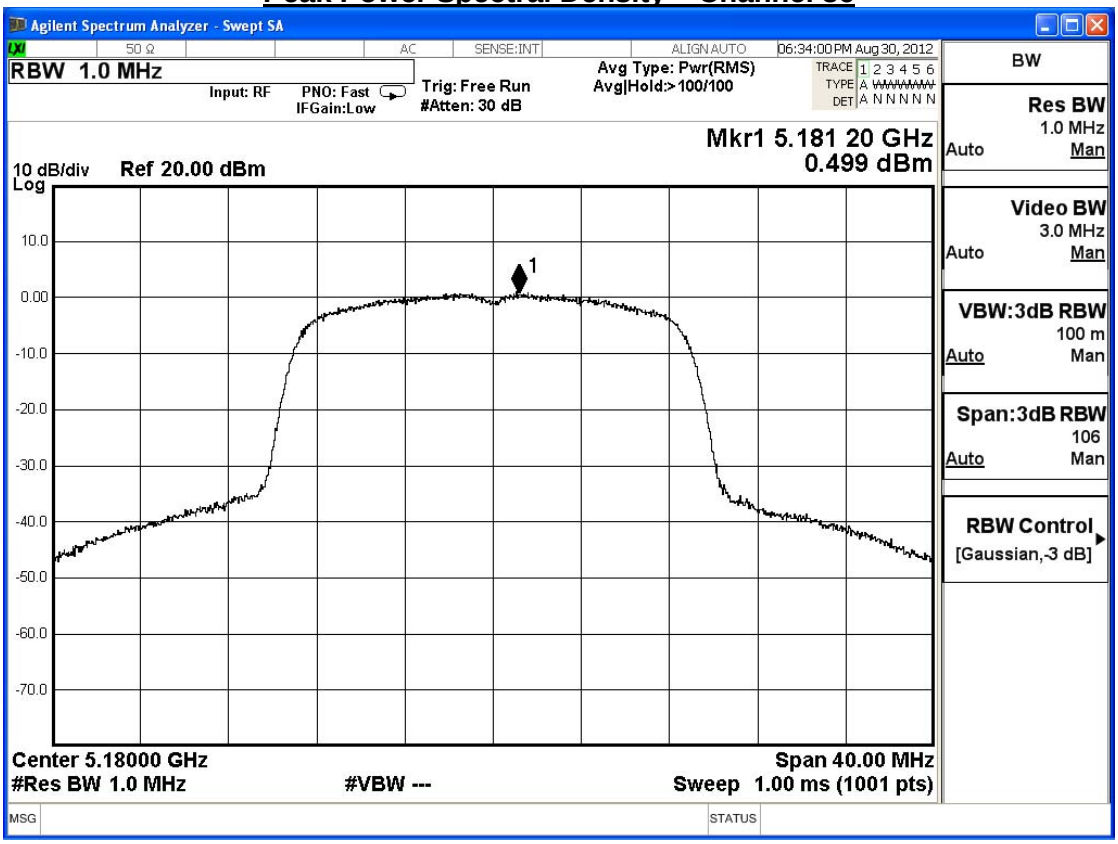
Peak Power Spectral Density – Channel 48



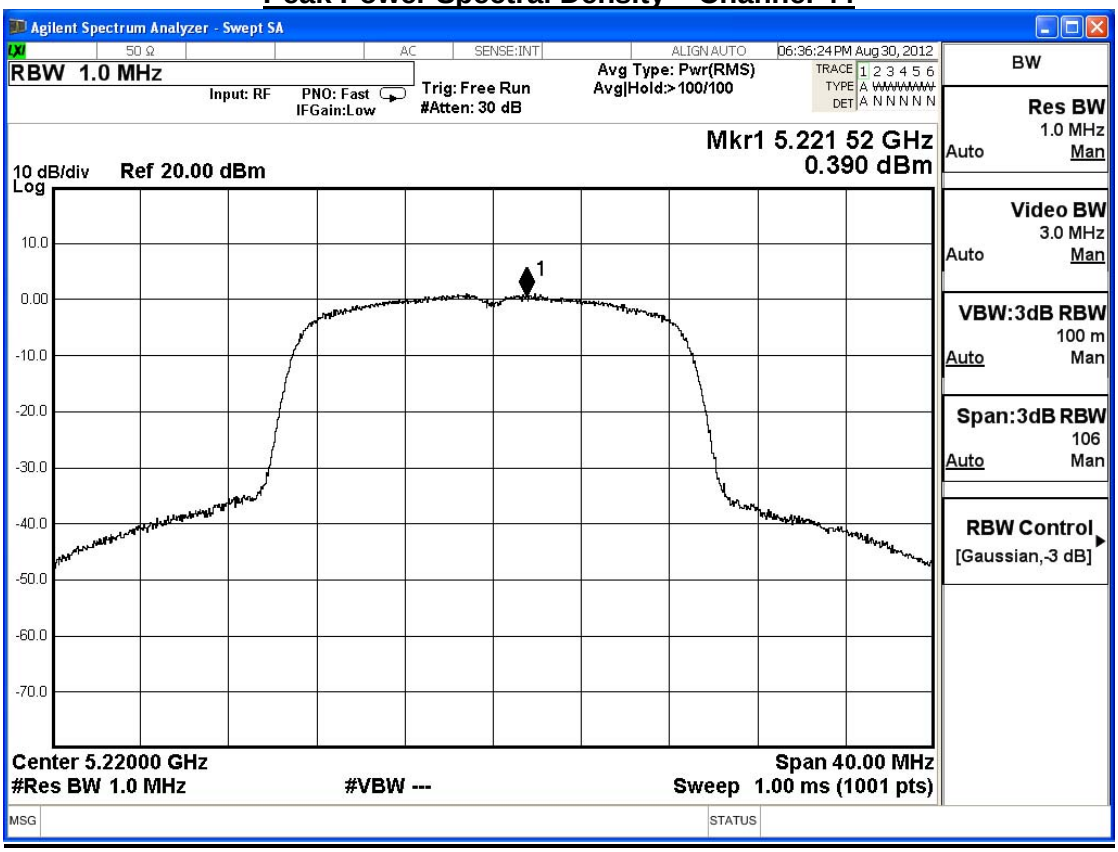
Product	5G+2.4G 2T2R AP FMC		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/07/26	Test Site	SR7

IEEE 802.11n_20M(ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
36	5180	0.499	≦4	Pass
44	5220	0.390	≦4	Pass
48	5240	0.897	≦4	Pass

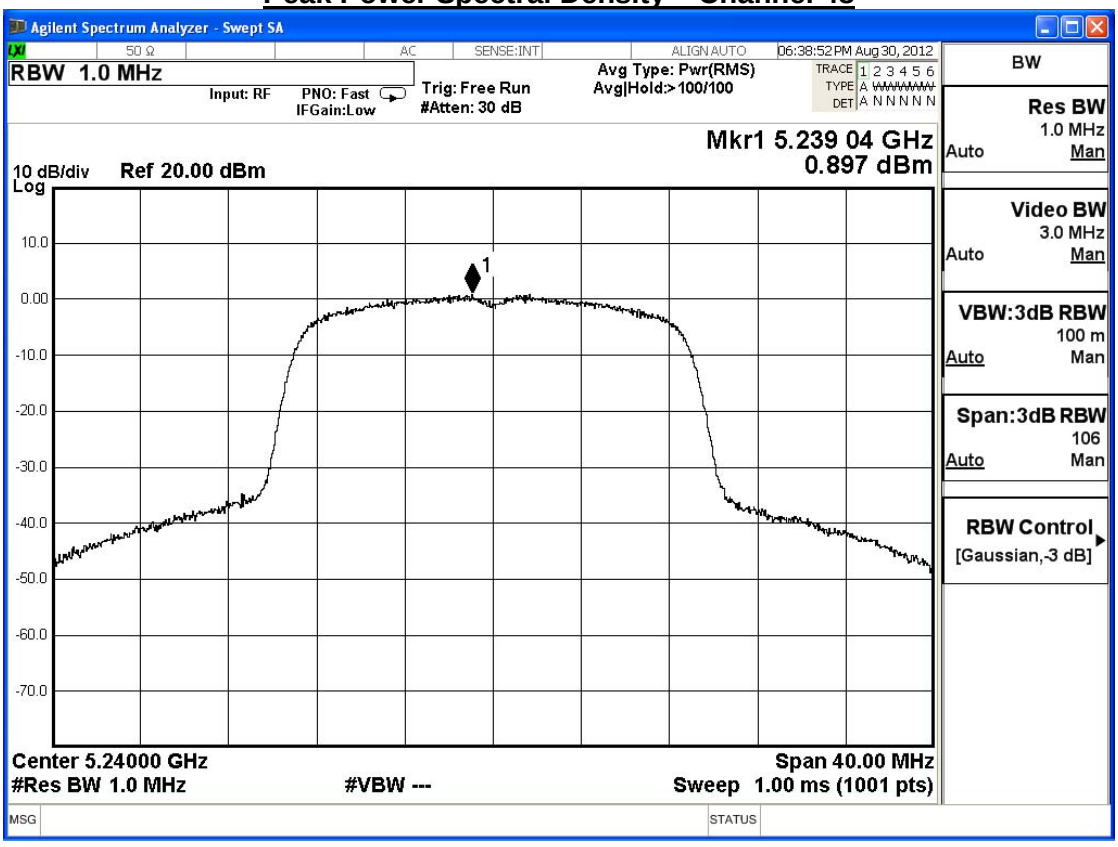
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48



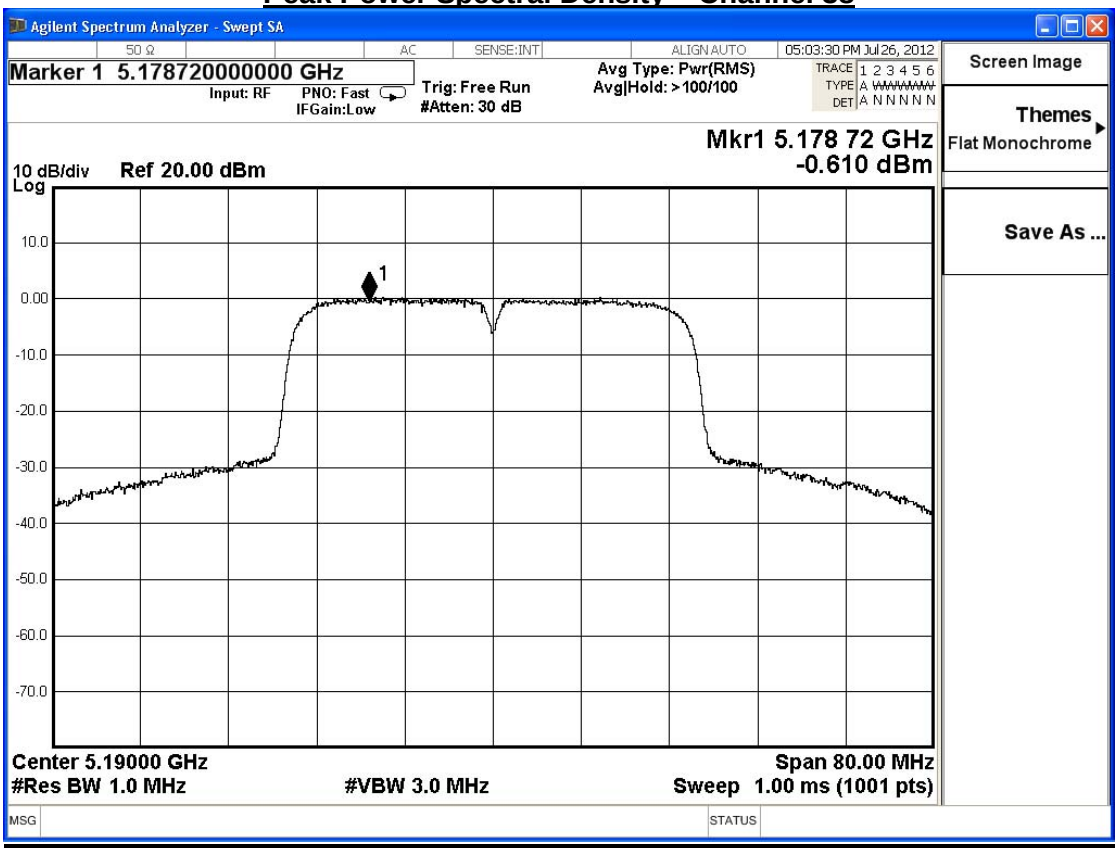
Product	5G+2.4G 2T2R AP FMC		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/07/25	Test Site	SR7

IEEE 802.11n_20M(ANT 0+1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
36	5180	3.411	≦4	Pass
44	5220	3.469	≦4	Pass
48	5240	3.698	≦4	Pass

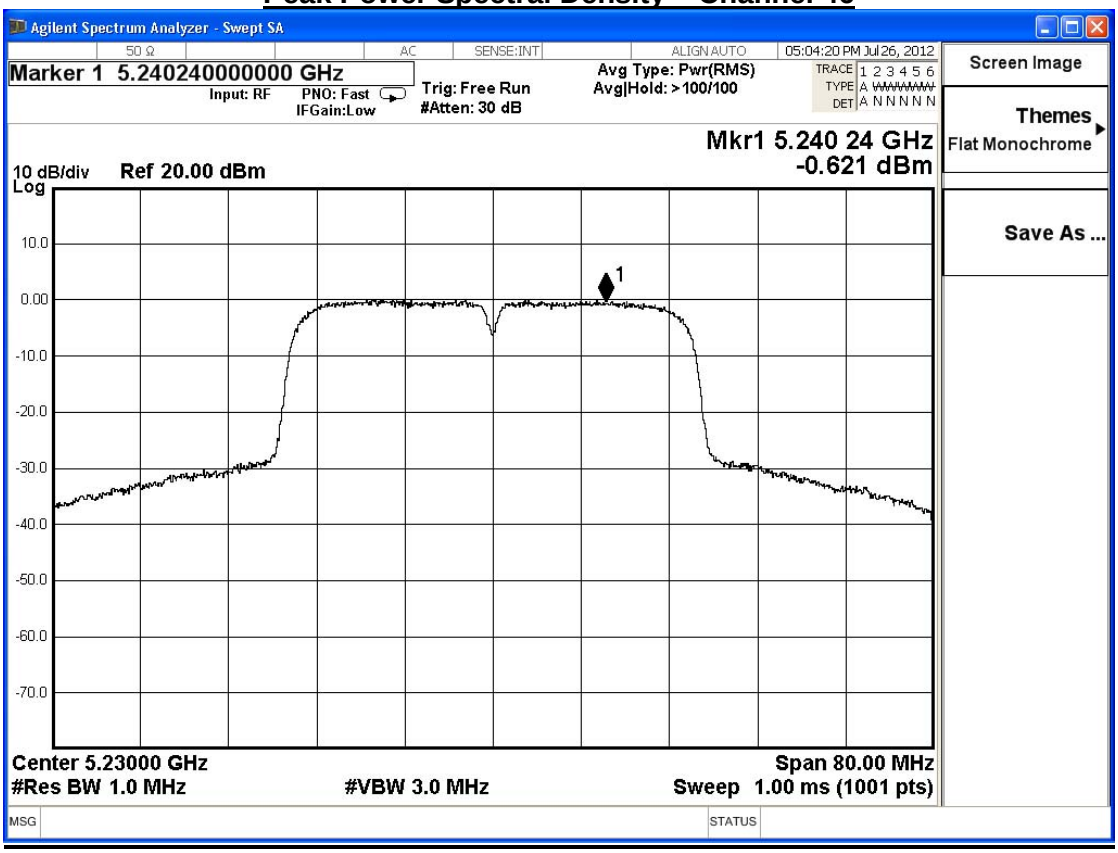
Product	5G+2.4G 2T2R AP FMC		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/07/26	Test Site	SR7

IEEE 802.11n_40M(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
38	5190	-0.610	≦4	Pass
46	5230	-0.621	≦4	Pass

Peak Power Spectral Density – Channel 38



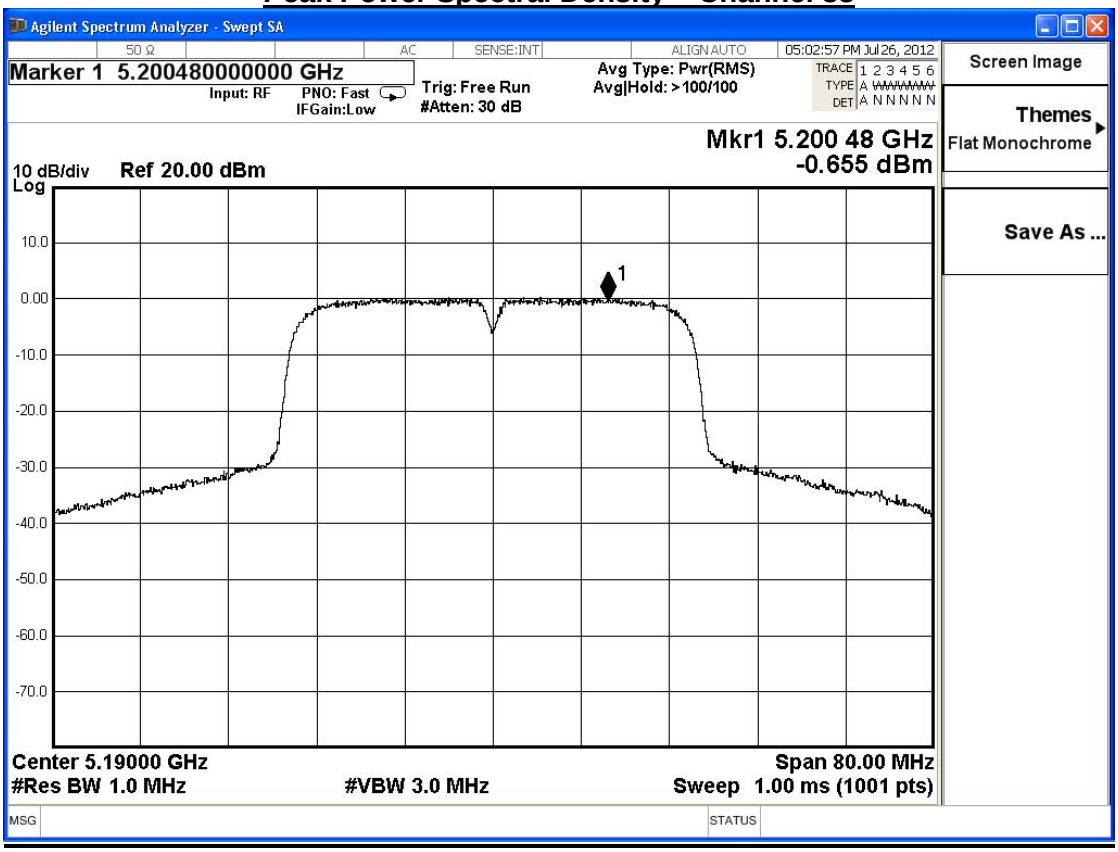
Peak Power Spectral Density – Channel 46



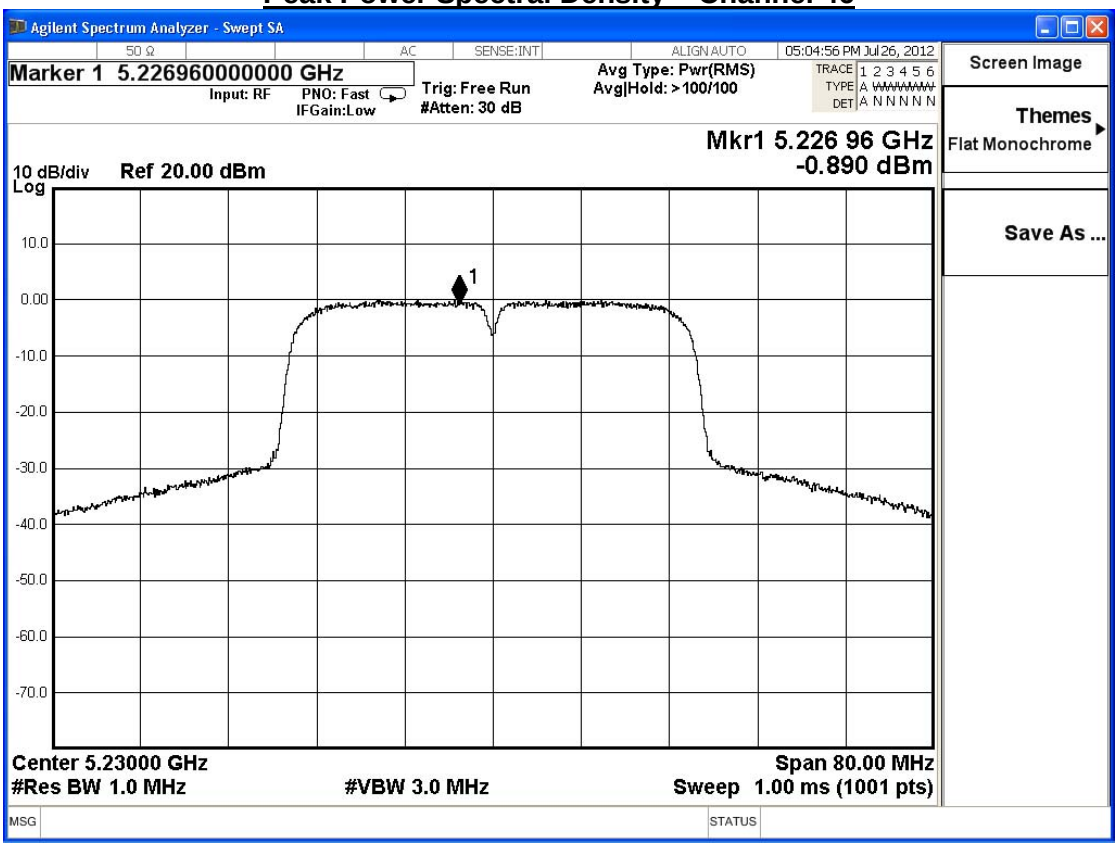
Product	5G+2.4G 2T2R AP FMC		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/07/26	Test Site	SR7

IEEE 802.11n_40M(ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
38	5190	-0.655	≦4	Pass
46	5230	-0.890	≦4	Pass

Peak Power Spectral Density – Channel 38



Peak Power Spectral Density – Channel 46



Product	5G+2.4G 2T2R AP FMC		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Transmit		
Date of Test	2012/07/25	Test Site	SR7

IEEE 802.11n_40M(ANT 0+1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit (dBm)	Result
38	5190	2.378	≦4	Pass
46	5230	2.257	≦4	Pass

6. Peak Excursion

6.1. Test Equipment

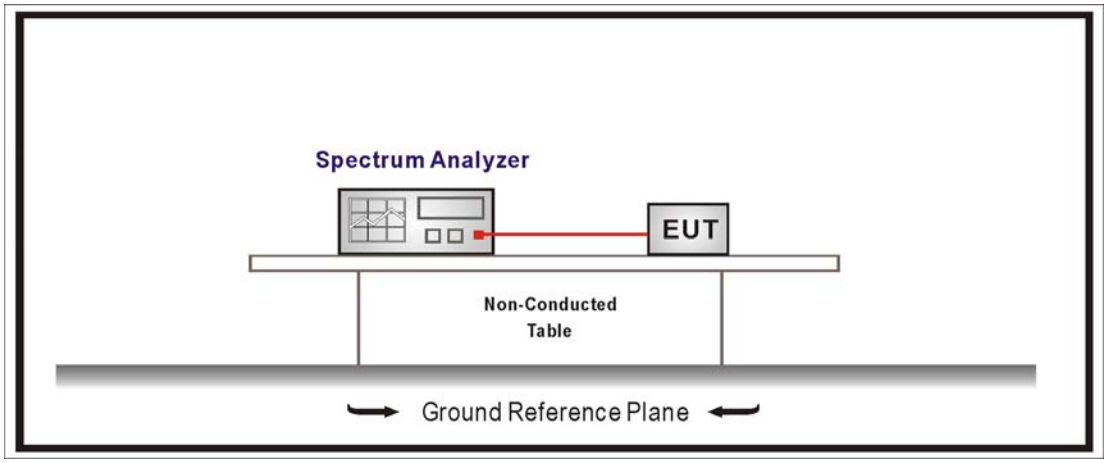
The following test equipments are used during the radiated emission tests:

Peak Excursion / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19

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 March 2012 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

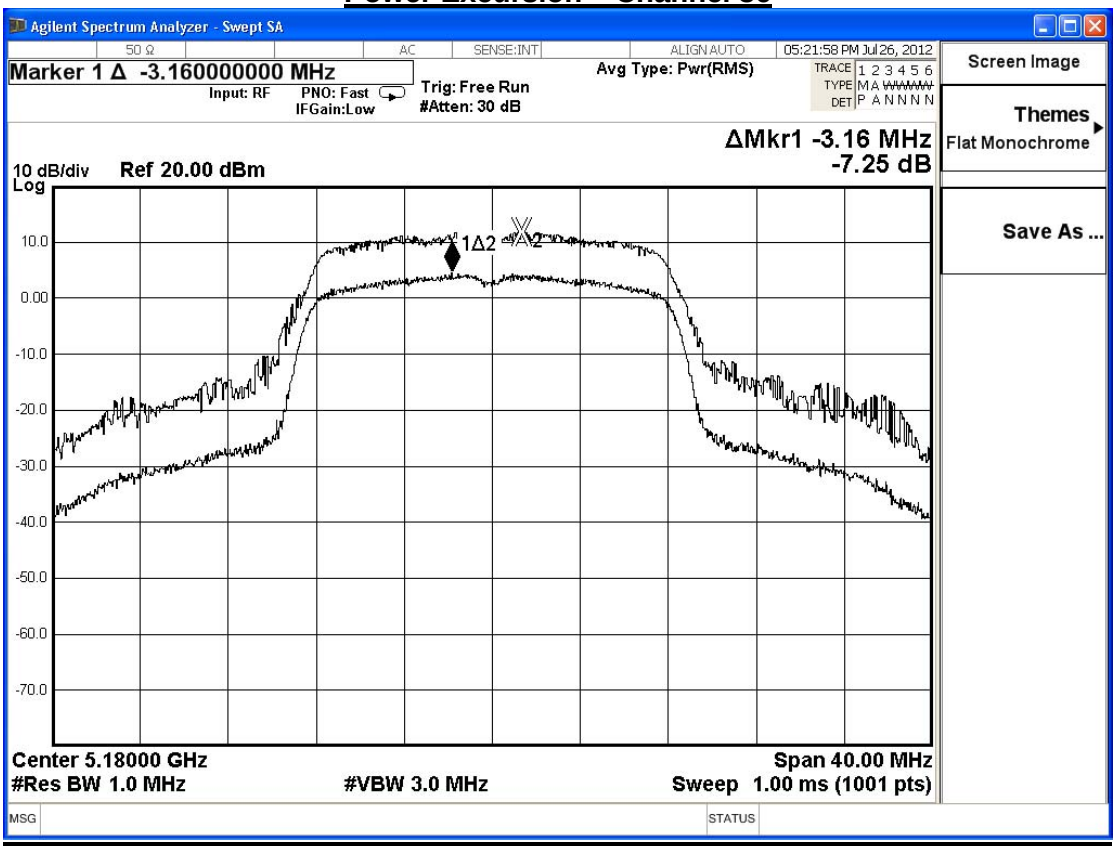
The measurement uncertainty is defined as ± 1.27 dB

6.6. Test Result

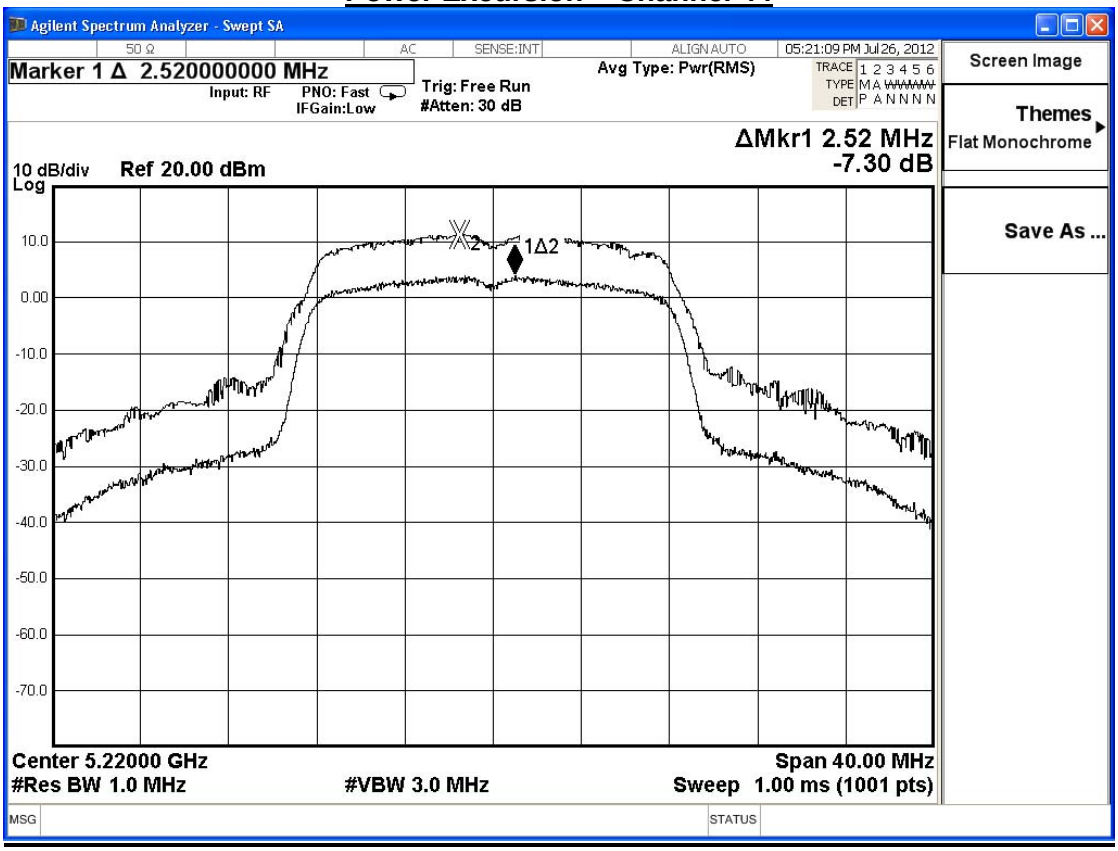
Product	5G+2.4G 2T2R AP FMC		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit		
Date of Test	2012/07/26	Test Site	SR7

IEEE 802.11a				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
36	5180	7.25	≦13	Pass
44	5220	7.30	≦13	Pass
48	5240	7.00	≦13	Pass

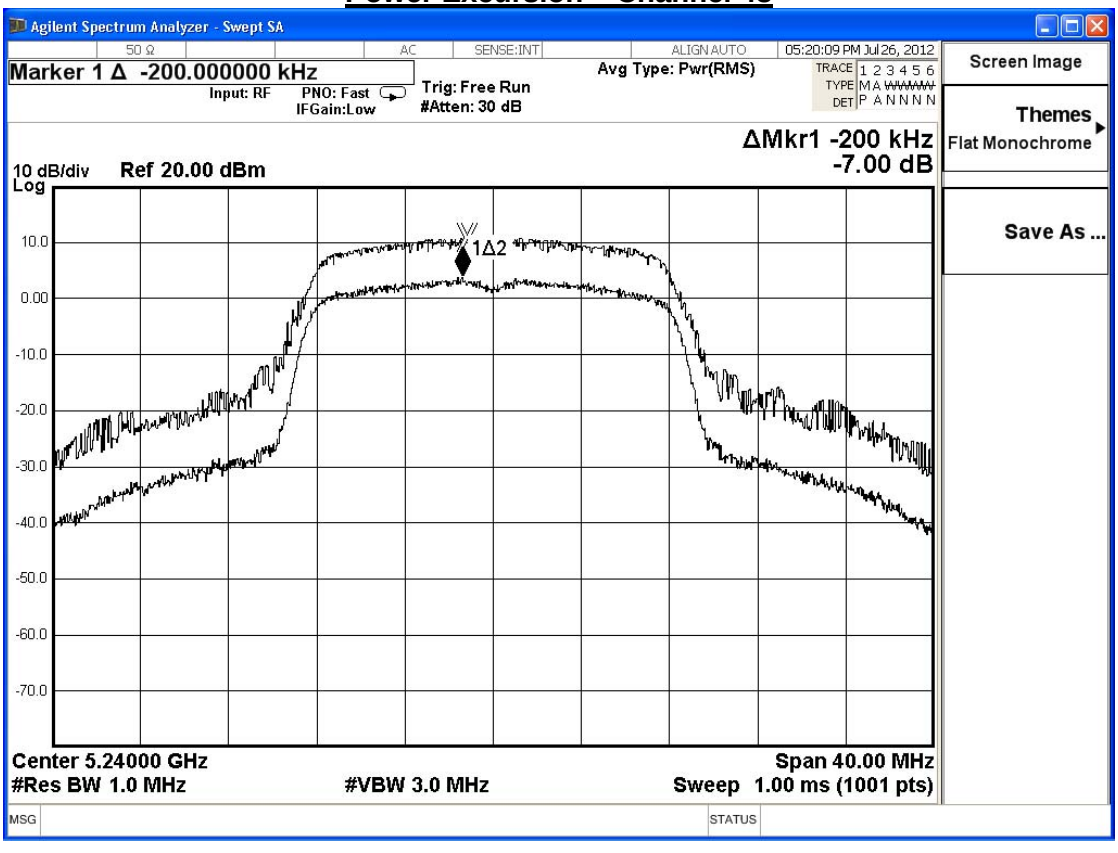
Power Excursion – Channel 36



Power Excursion – Channel 44



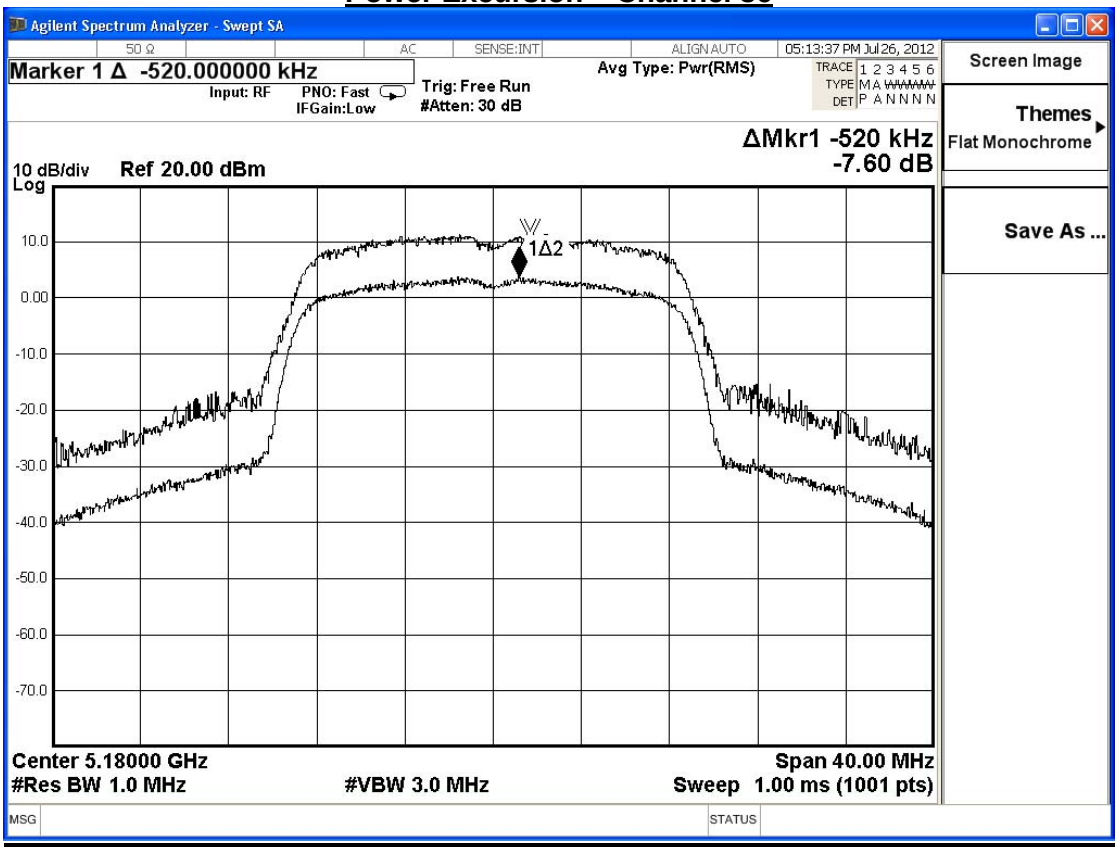
Power Excursion – Channel 48



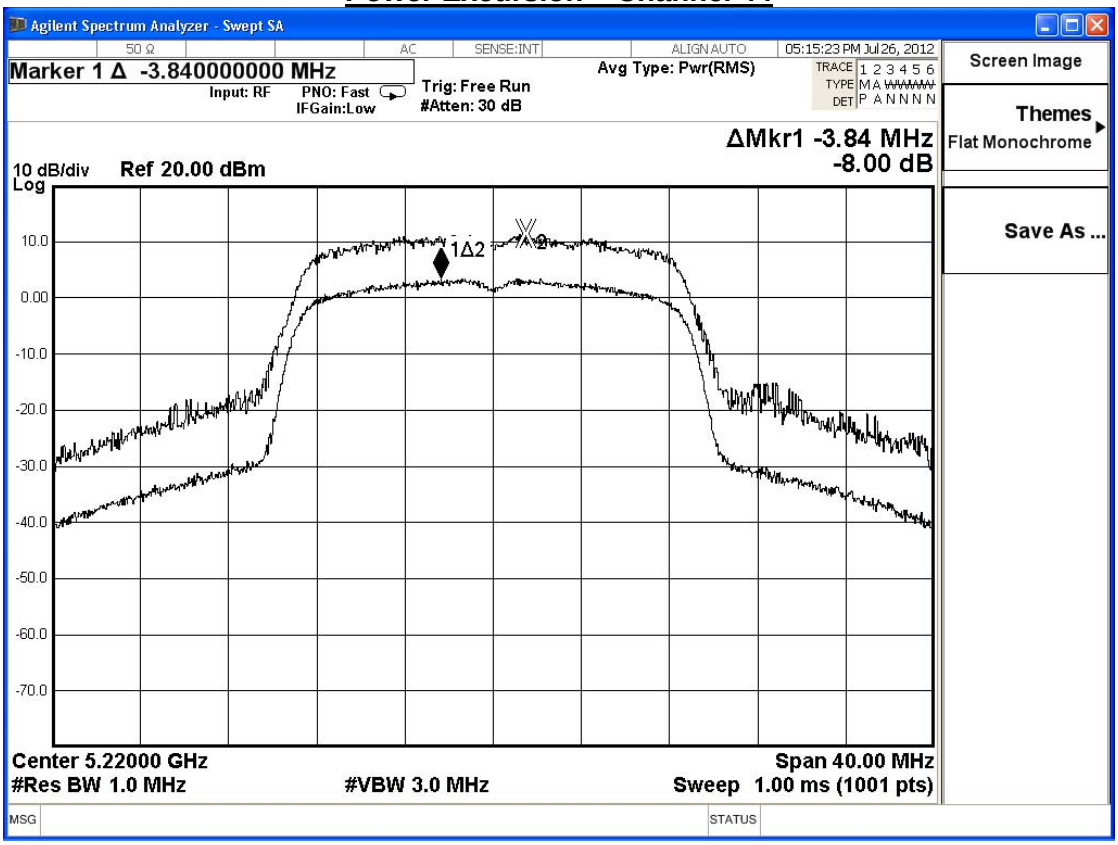
Product	5G+2.4G 2T2R AP FMC		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit		
Date of Test	2012/07/26	Test Site	SR7

IEEE 802.11n_20M(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
36	5180	7.60	≦13	Pass
44	5220	8.00	≦13	Pass
48	5240	7.61	≦13	Pass

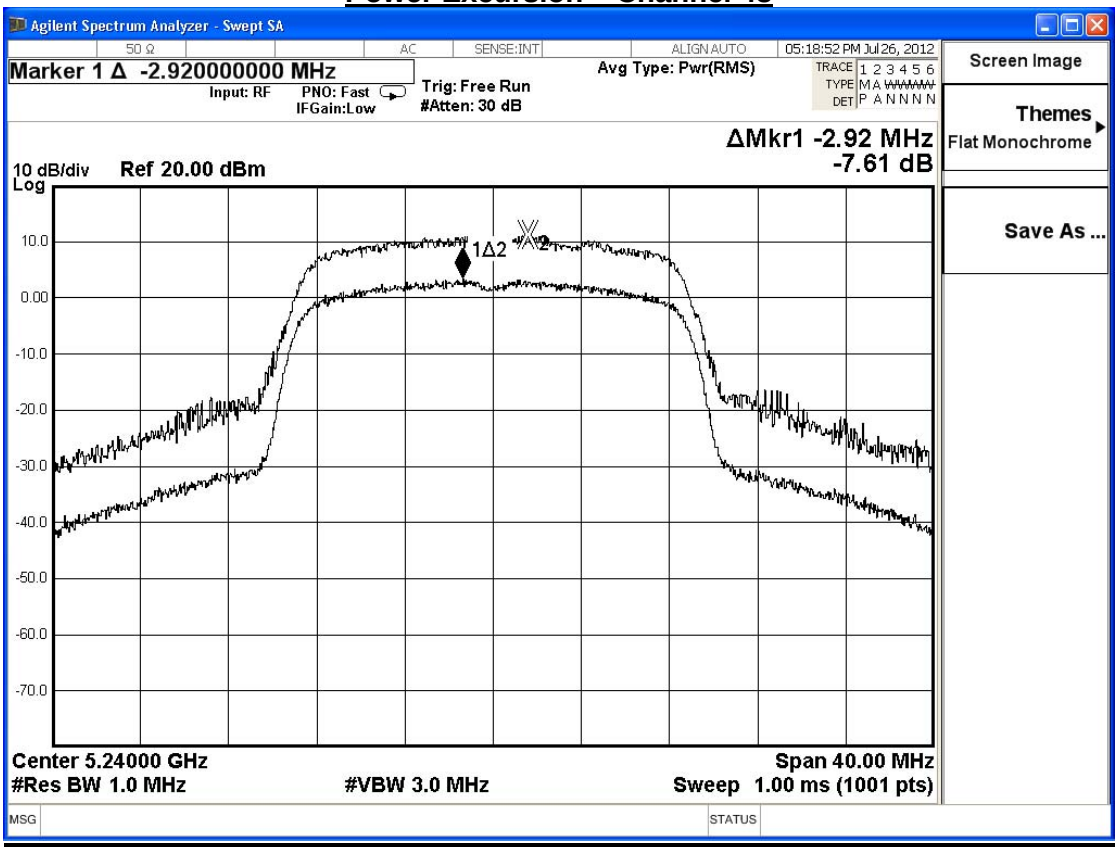
Power Excursion – Channel 36



Power Excursion – Channel 44



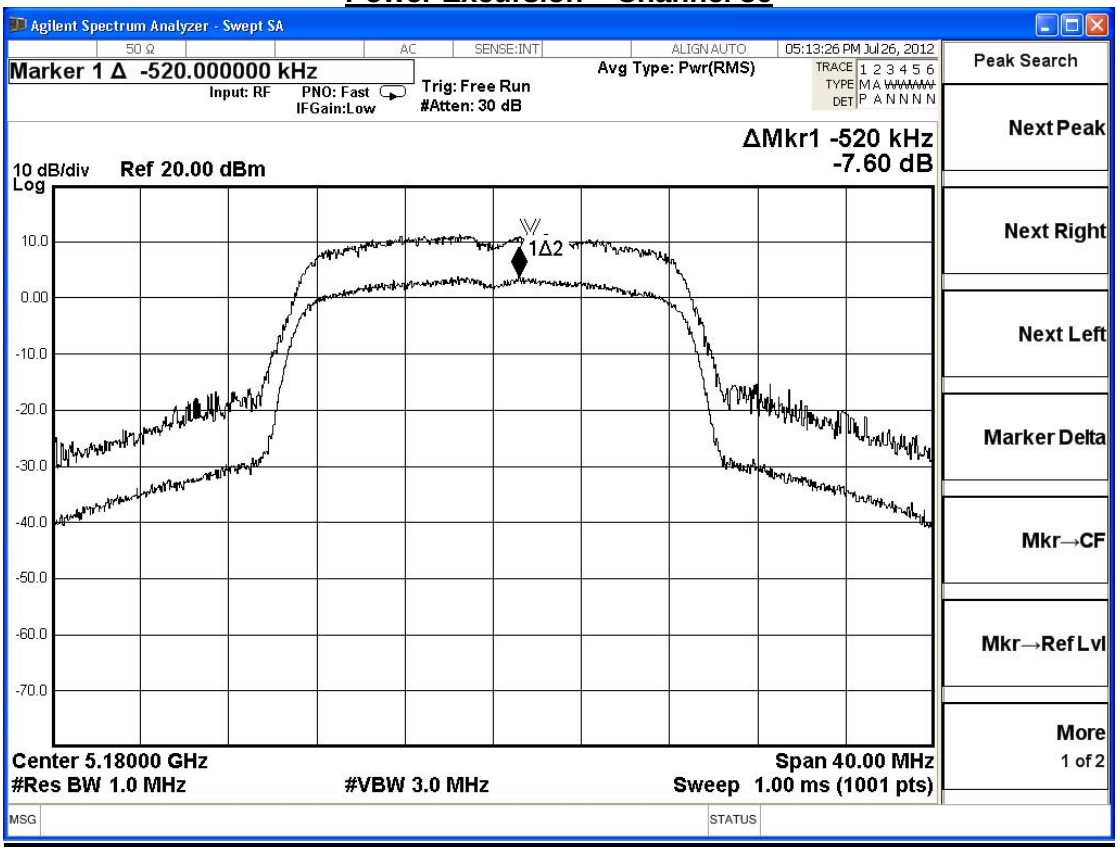
Power Excursion – Channel 48



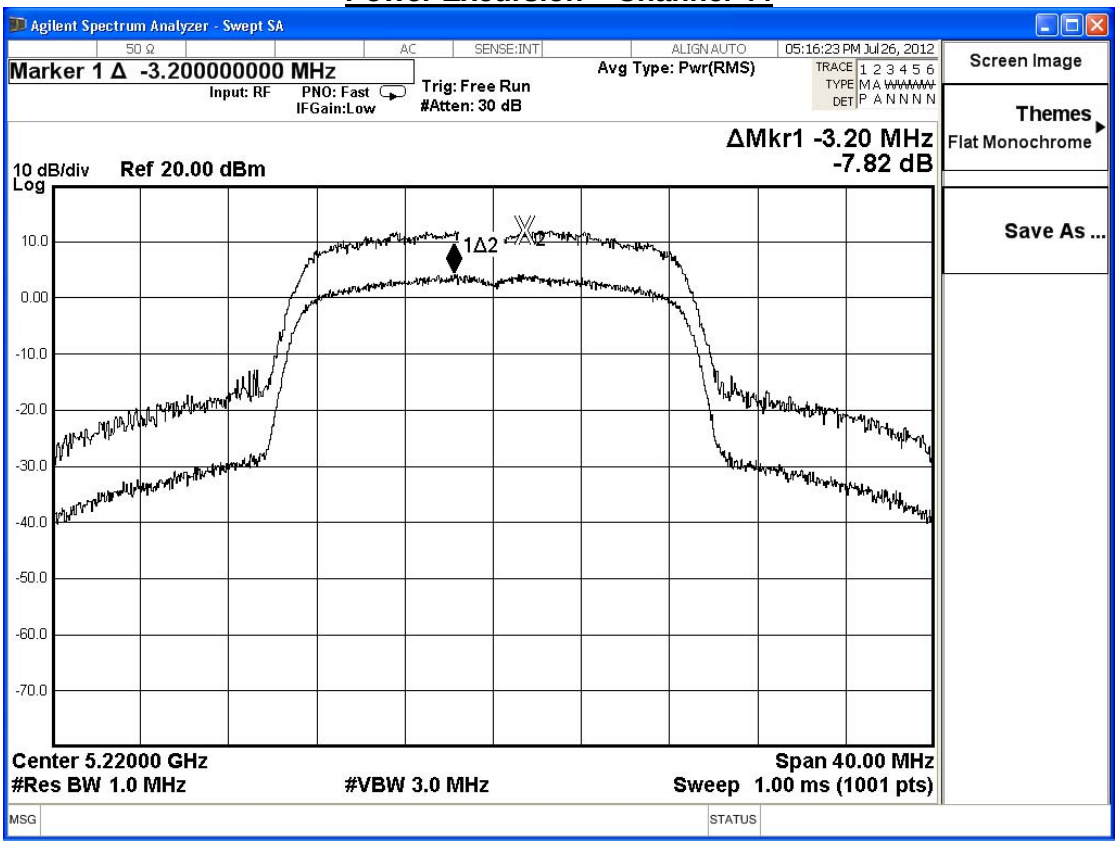
Product	5G+2.4G 2T2R AP FMC		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit		
Date of Test	2012/07/26	Test Site	SR7

IEEE 802.11n_20M(ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
36	5180	7.60	≦13	Pass
44	5220	7.82	≦13	Pass
48	5240	7.89	≦13	Pass

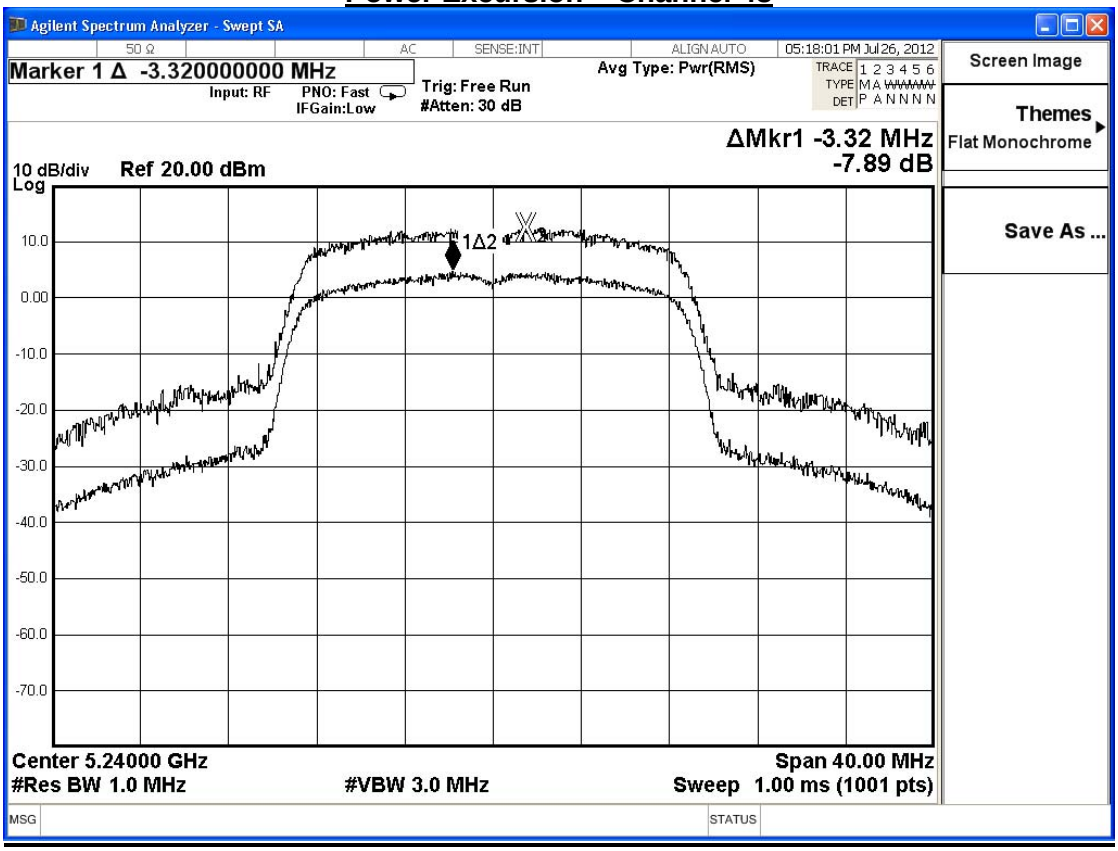
Power Excursion – Channel 36



Power Excursion – Channel 44



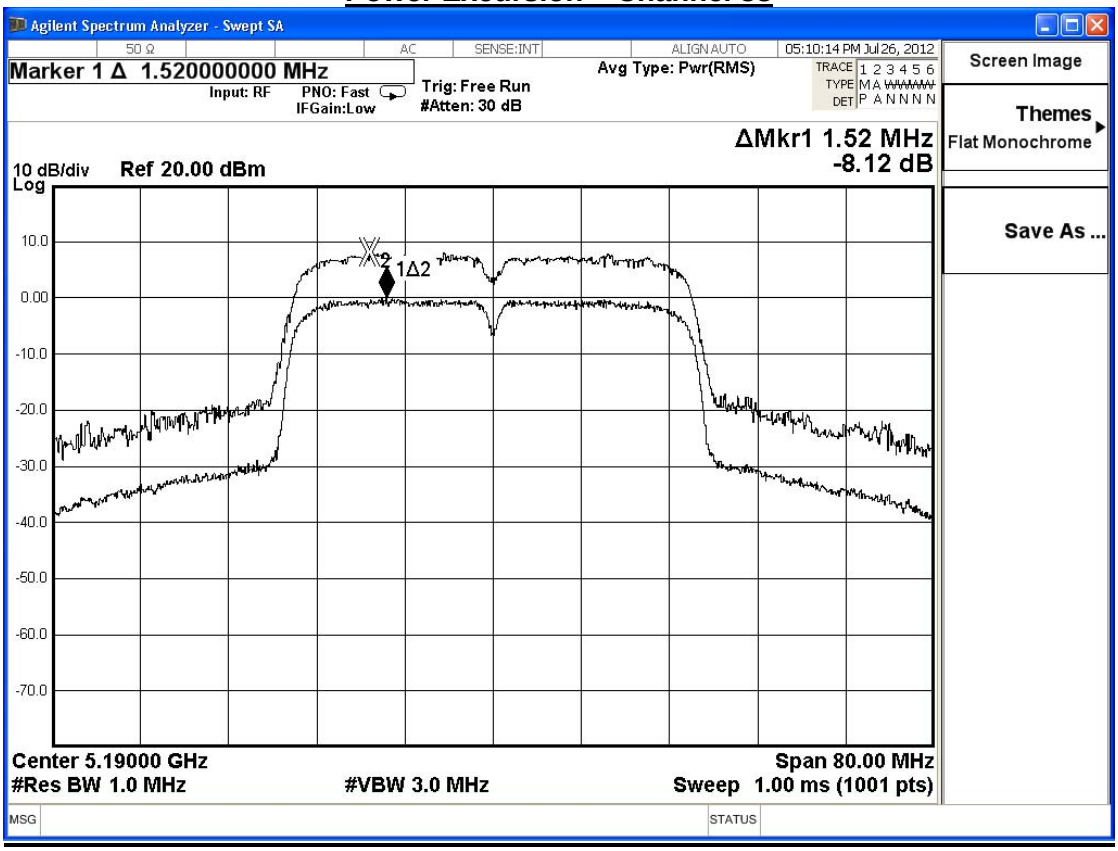
Power Excursion – Channel 48



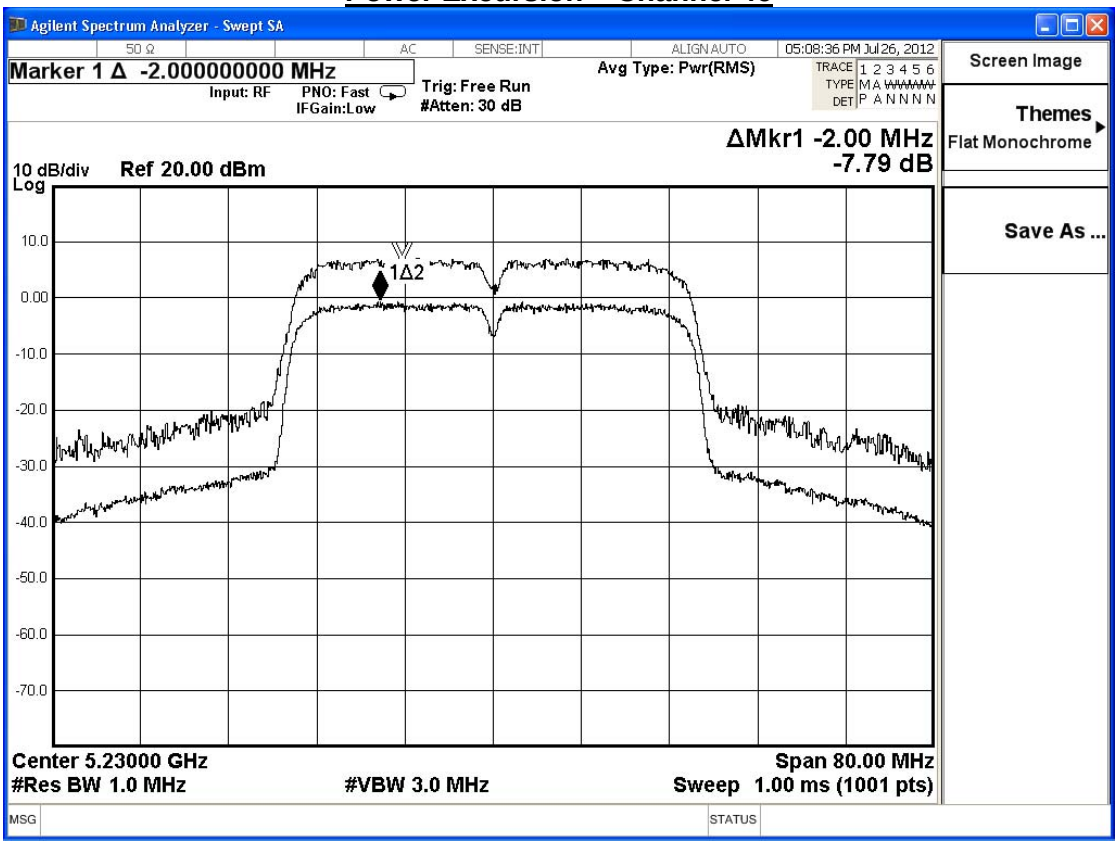
Product	5G+2.4G 2T2R AP FMC		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit		
Date of Test	2012/07/26	Test Site	SR7

IEEE 802.11n_40M(ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
38	5190	8.12	≦13	Pass
46	5230	7.79	≦13	Pass

Power Excursion – Channel 38



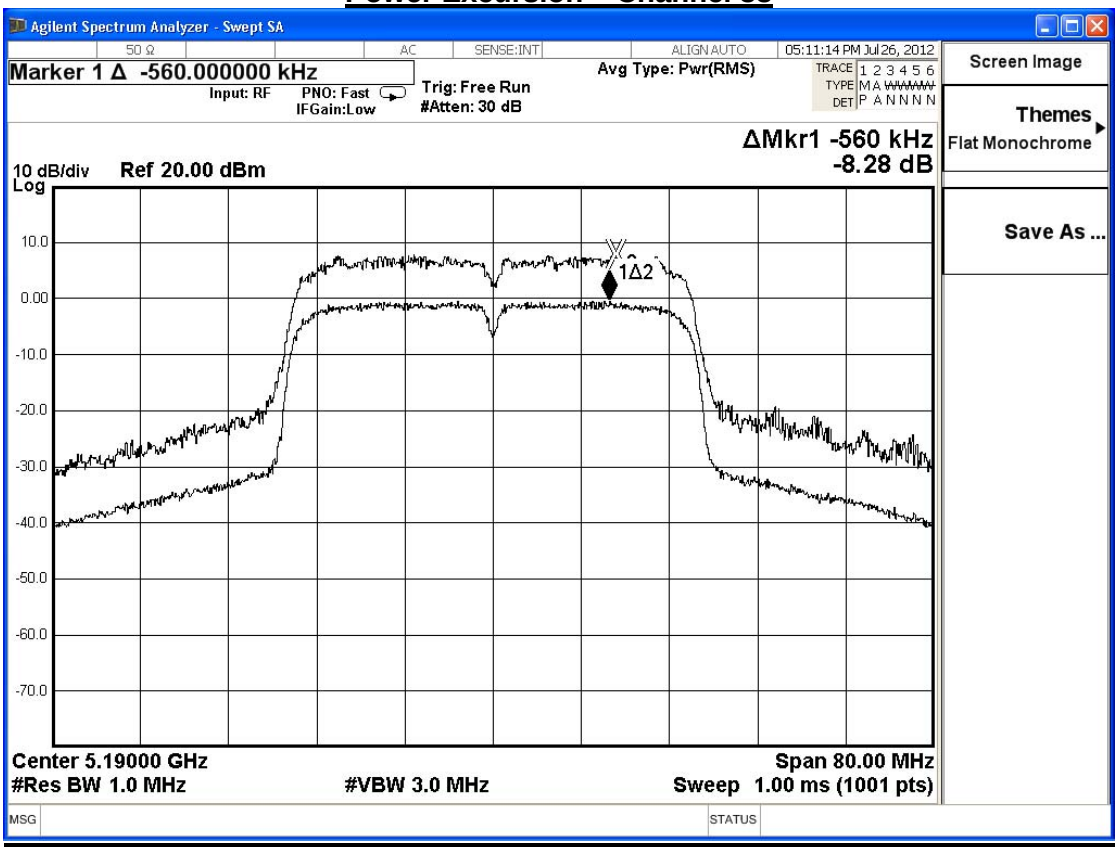
Power Excursion – Channel 46



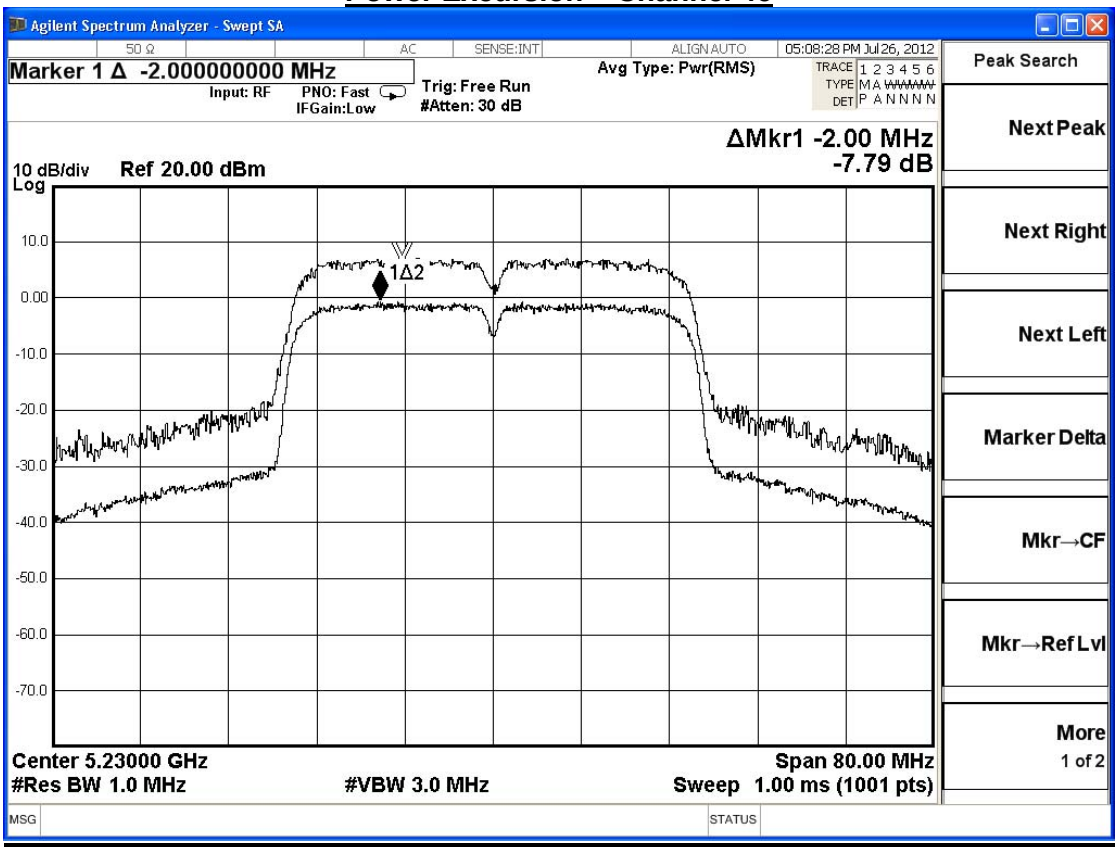
Product	5G+2.4G 2T2R AP FMC		
Test Item	Peak Excursion		
Test Mode	Mode 1: Transmit		
Date of Test	2012/07/26	Test Site	SR7

IEEE 802.11n_40M(ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dB)	Required Limit (dB)	Result
38	5190	8.28	≦13	Pass
46	5230	7.79	≦13	Pass

Power Excursion – Channel 38



Power Excursion – Channel 46



7. Radiated Emission

7.1. Test Equipment

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

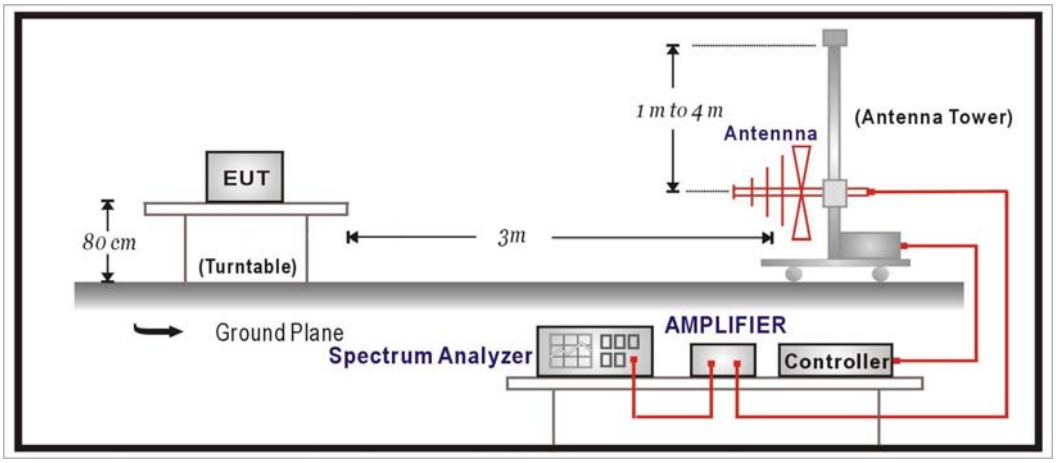
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895	2013/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120D	743	2013/02/02
Pre-Amplifier	MITEQ	AMF-4D-005180-24-10P	888003	2012/12/05
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2013/03/01
Spectrum Analyzer	Agilent	E4440A	MY46187335	2013/02/07
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2013/03/04

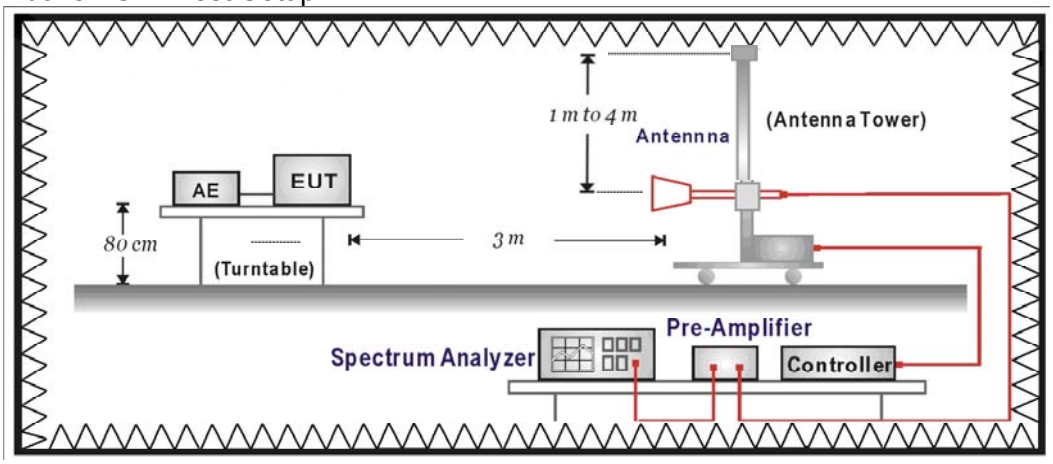
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

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 (R&S Test Receiver ESCS 30)is 120 KHz, above 1GHz are 1 MHz.
The frequency range from 30MHz to 10th harminics is checked.

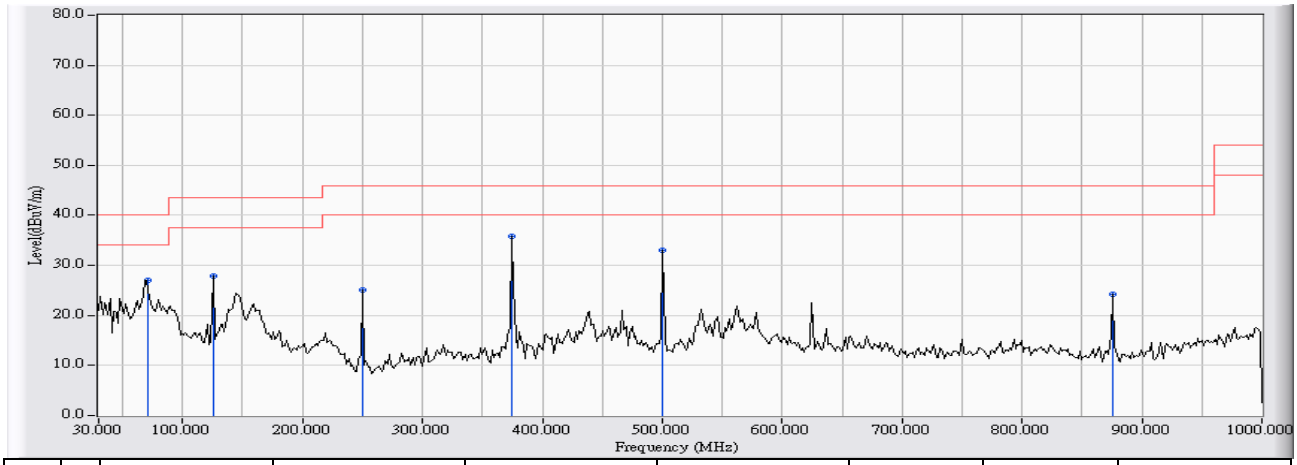
7.5. Uncertainty

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

7.6. Test Result

30MHz-1GHz Spurious

Site : CB1	Time : 2012/08/07 - 11:31
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V/ 60Hz
EUT : 5G+2.4G 2T2R AP FMC	Note : Mode 1: Transmit (Ant.: Dipole) 802.11a_CH44

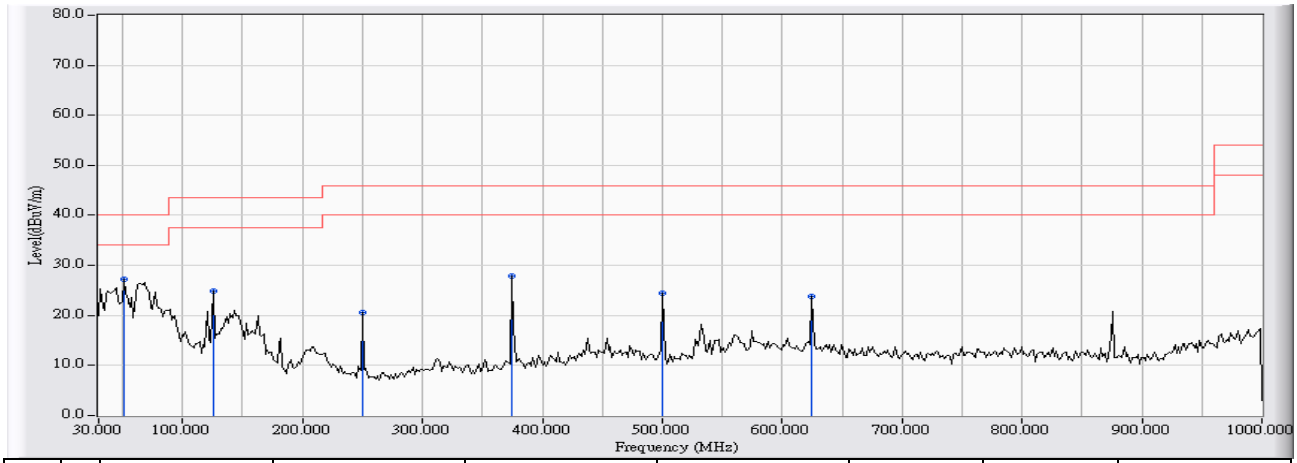


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		70.417	-9.372	36.444	27.072	-12.928	40.000	QUASIPEAK
2		125.383	-9.227	37.004	27.778	-15.722	43.500	QUASIPEAK
3		249.867	-13.634	38.727	25.093	-20.907	46.000	QUASIPEAK
4	*	374.350	-11.555	47.392	35.836	-10.164	46.000	QUASIPEAK
5		500.450	-9.756	42.756	33.001	-12.999	46.000	QUASIPEAK
6		875.517	-8.997	33.249	24.252	-21.748	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 : CB1	**Time : 2012/08/07 - 11:36**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11a_CH44**

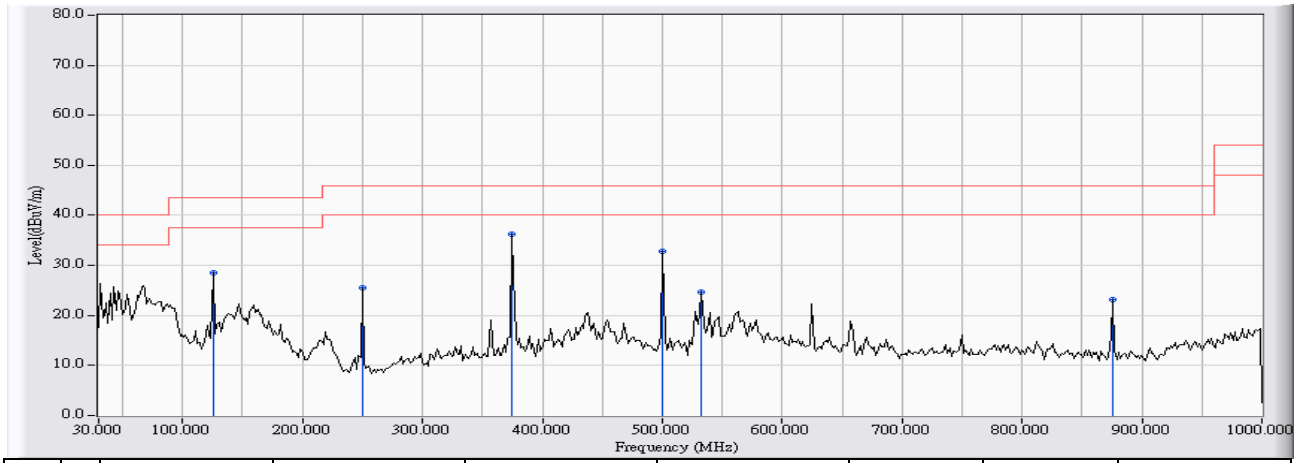


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	51.017	-2.276	29.553	27.277	-12.723	40.000	QUASIPEAK
2		125.383	-9.227	34.191	24.965	-18.535	43.500	QUASIPEAK
3		249.867	-13.634	34.125	20.491	-25.509	46.000	QUASIPEAK
4		374.350	-11.555	39.350	27.794	-18.206	46.000	QUASIPEAK
5		500.450	-9.756	34.198	24.443	-21.557	46.000	QUASIPEAK
6		624.933	-7.678	31.387	23.709	-22.291	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 : CB1	**Time : 2012/08/07 - 11:40**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n 20MHz_CH44**

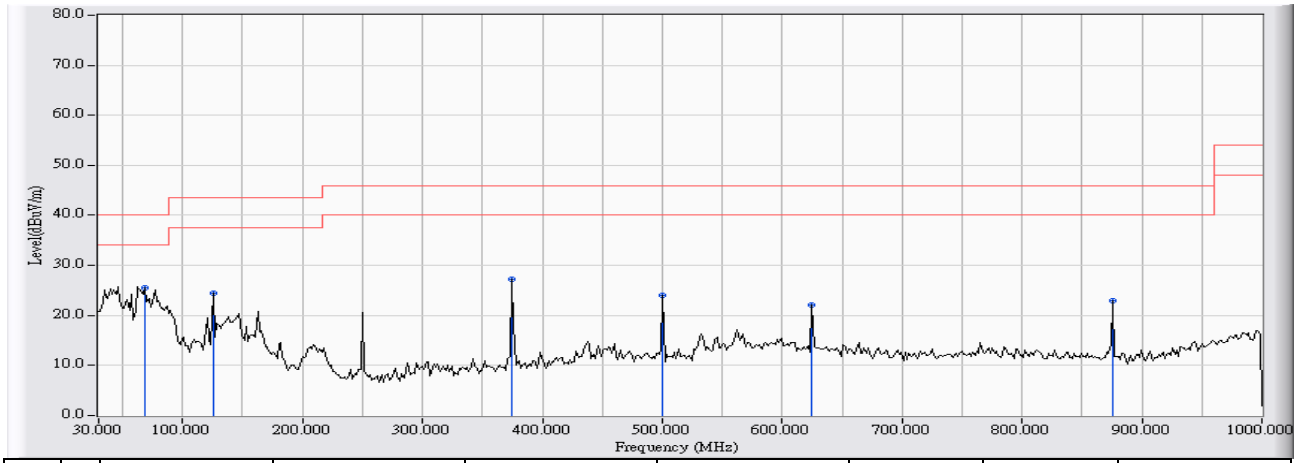


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		125.383	-9.227	37.801	28.575	-14.925	43.500	QUASIPEAK
2		249.867	-13.634	39.072	25.438	-20.562	46.000	QUASIPEAK
3	*	374.350	-11.555	47.812	36.256	-9.744	46.000	QUASIPEAK
4		500.450	-9.756	42.499	32.744	-13.256	46.000	QUASIPEAK
5		532.783	-9.789	34.366	24.577	-21.423	46.000	QUASIPEAK
6		875.517	-8.997	32.149	23.152	-22.848	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 : CB1	**Time : 2012/08/07 - 11:45**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n 20MHz_CH44**

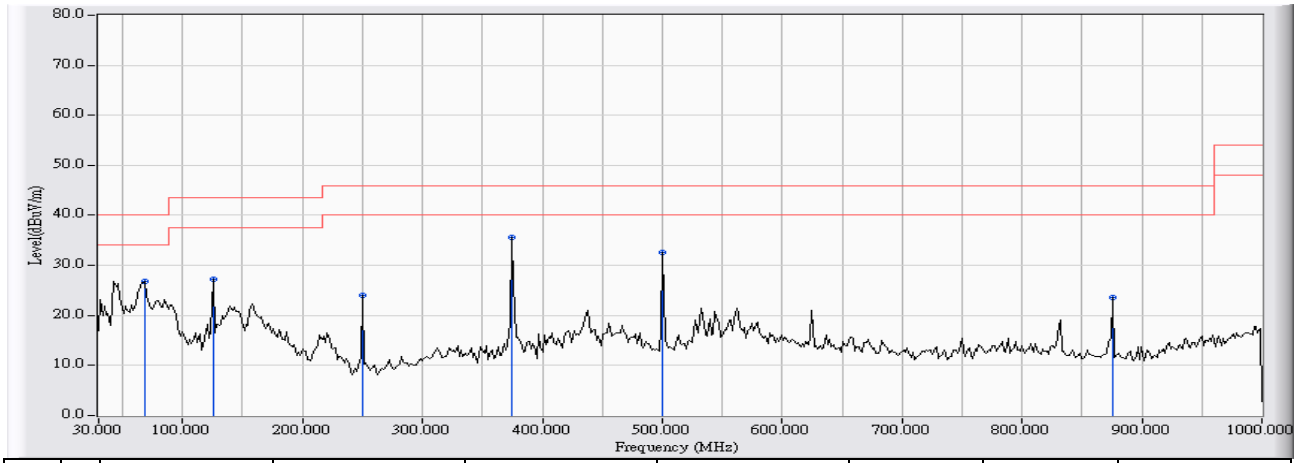


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	68.800	-8.922	34.499	25.577	-14.423	40.000	QUASIPEAK
2		125.383	-9.227	33.732	24.506	-18.994	43.500	QUASIPEAK
3		374.350	-11.555	38.688	27.132	-18.868	46.000	QUASIPEAK
4		500.450	-9.756	33.708	23.953	-22.047	46.000	QUASIPEAK
5		624.933	-7.678	29.701	22.023	-23.977	46.000	QUASIPEAK
6		875.517	-8.997	31.882	22.885	-23.115	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 : CB1	**Time : 2012/08/07 - 11:49**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)802.11n 40MHz_CH46_**

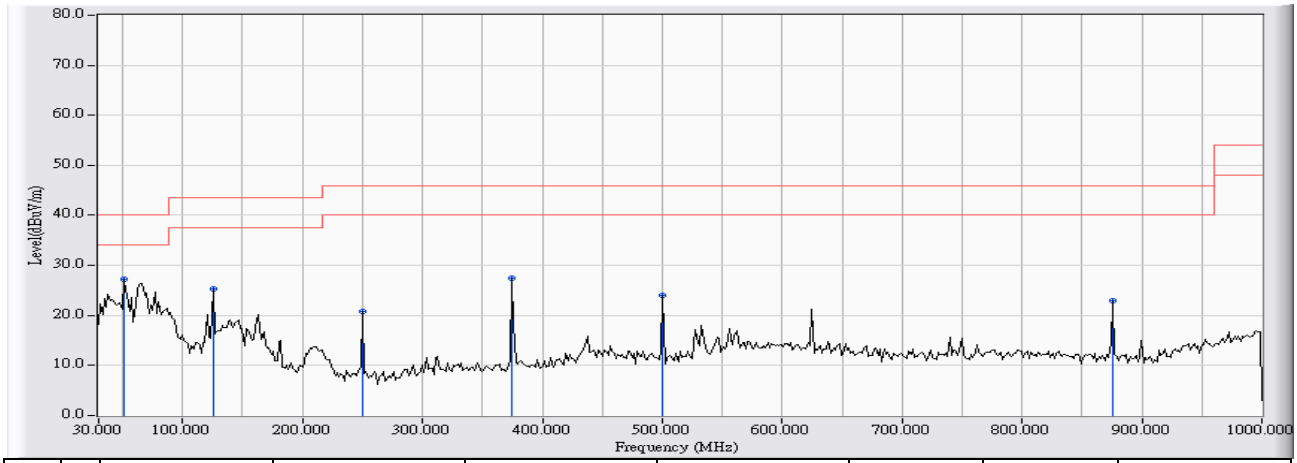


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		68.800	-8.922	35.744	26.822	-13.178	40.000	QUASIPEAK
2		125.383	-9.227	36.541	27.315	-16.185	43.500	QUASIPEAK
3		249.867	-13.634	37.646	24.012	-21.988	46.000	QUASIPEAK
4	*	374.350	-11.555	47.074	35.518	-10.482	46.000	QUASIPEAK
5		500.450	-9.756	42.425	32.670	-13.330	46.000	QUASIPEAK
6		875.517	-8.997	32.623	23.626	-22.374	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 : CB1	**Time : 2012/08/07 - 11:53**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n 40MHz_CH46**

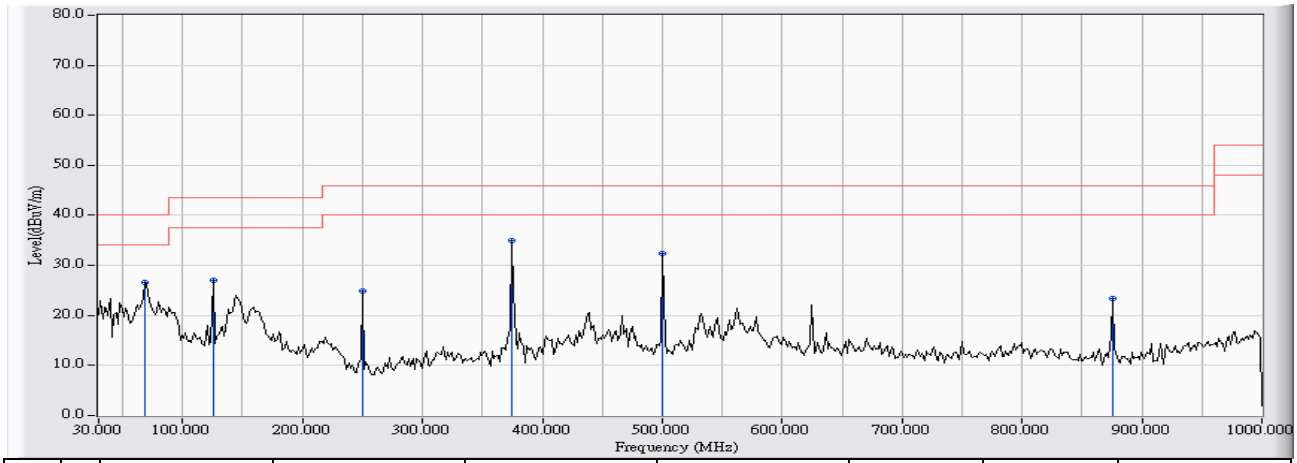


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	51.017	-2.276	29.568	27.292	-12.708	40.000	QUASIPEAK
2		125.383	-9.227	34.450	25.224	-18.276	43.500	QUASIPEAK
3		249.867	-13.634	34.503	20.869	-25.131	46.000	QUASIPEAK
4		374.350	-11.555	39.006	27.450	-18.550	46.000	QUASIPEAK
5		500.450	-9.756	33.812	24.057	-21.943	46.000	QUASIPEAK
6		875.517	-8.997	31.896	22.899	-23.101	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 : CB1	**Time : 2012/08/07 - 13:25**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11a_CH44**

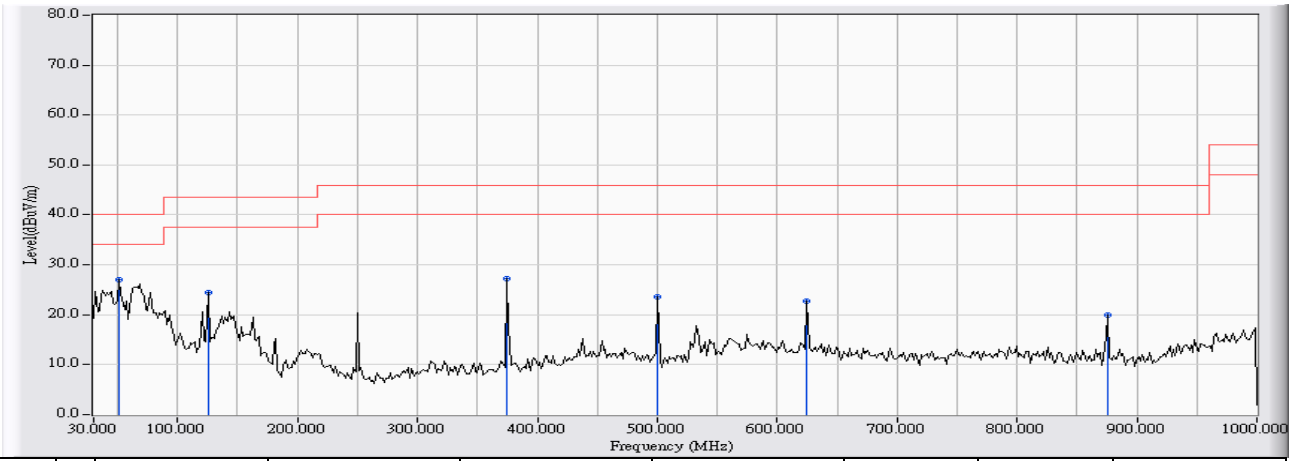


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		68.800	-8.922	35.556	26.634	-13.366	40.000	QUASIPEAK
2		125.383	-9.227	36.344	27.118	-16.382	43.500	QUASIPEAK
3		249.867	-13.634	38.576	24.942	-21.058	46.000	QUASIPEAK
4	*	374.350	-11.555	46.440	34.884	-11.116	46.000	QUASIPEAK
5		500.450	-9.756	42.048	32.293	-13.707	46.000	QUASIPEAK
6		875.517	-8.997	32.320	23.323	-22.677	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 : CB1	**Time : 2012/08/07 - 13:29**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11a_CH44**

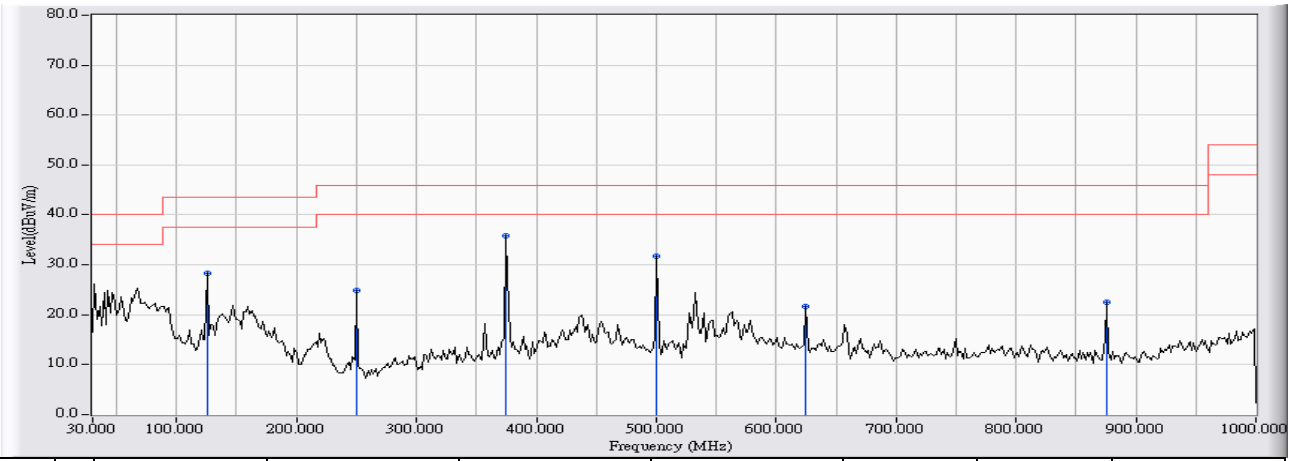


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	51.017	-2.276	29.194	26.918	-13.082	40.000	QUASIPEAK
2		125.383	-9.227	33.688	24.462	-19.038	43.500	QUASIPEAK
3		374.350	-11.555	38.780	27.224	-18.776	46.000	QUASIPEAK
4		500.450	-9.756	33.405	23.650	-22.350	46.000	QUASIPEAK
5		624.933	-7.678	30.417	22.739	-23.261	46.000	QUASIPEAK
6		875.517	-8.997	28.862	19.865	-26.135	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 : CB1	**Time : 2012/08/07 - 13:37**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n 20MHz_CH44**

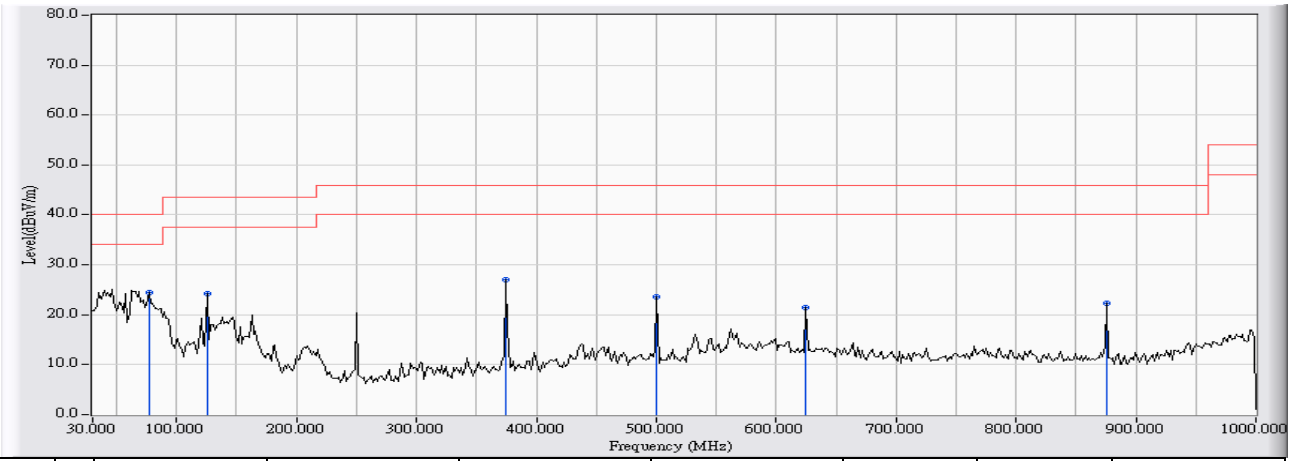


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		125.383	-9.227	37.593	28.367	-15.133	43.500	QUASIPEAK
2		249.867	-13.634	38.549	24.915	-21.085	46.000	QUASIPEAK
3	*	374.350	-11.555	47.281	35.725	-10.275	46.000	QUASIPEAK
4		500.450	-9.756	41.562	31.807	-14.193	46.000	QUASIPEAK
5		624.933	-7.678	29.277	21.599	-24.401	46.000	QUASIPEAK
6		875.517	-8.997	31.621	22.624	-23.376	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 : CB1	**Time : 2012/08/07 - 13:45**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n 20MHz_CH44**

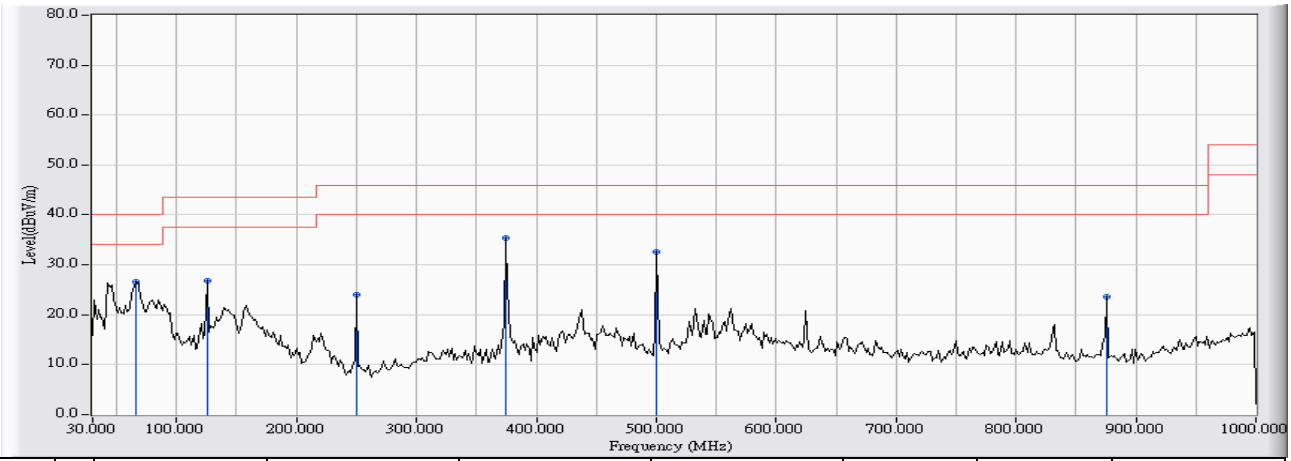


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	76.883	-10.690	35.236	24.545	-15.455	40.000	QUASIPEAK
2		125.383	-9.227	33.443	24.217	-19.283	43.500	QUASIPEAK
3		374.350	-11.555	38.544	26.988	-19.012	46.000	QUASIPEAK
4		500.450	-9.756	33.288	23.533	-22.467	46.000	QUASIPEAK
5		624.933	-7.678	29.114	21.436	-24.564	46.000	QUASIPEAK
6		875.517	-8.997	31.275	22.278	-23.722	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 : CB1	**Time : 2012/08/07 - 13:50**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n 40MHz_CH46**

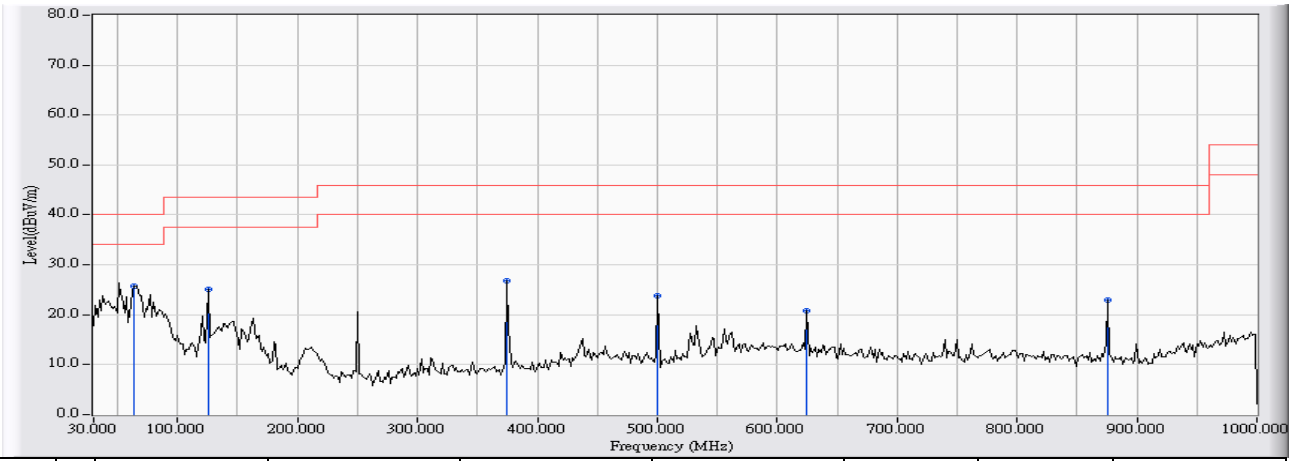


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		65.567	-7.956	34.471	26.515	-13.485	40.000	QUASIPEAK
2		125.383	-9.227	36.108	26.882	-16.618	43.500	QUASIPEAK
3		249.867	-13.634	37.570	23.936	-22.064	46.000	QUASIPEAK
4	*	374.350	-11.555	46.877	35.321	-10.679	46.000	QUASIPEAK
5		500.450	-9.756	42.313	32.558	-13.442	46.000	QUASIPEAK
6		875.517	-8.997	32.485	23.488	-22.512	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 : CB1	**Time : 2012/08/07 - 13:55**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n 40MHz_CH46**



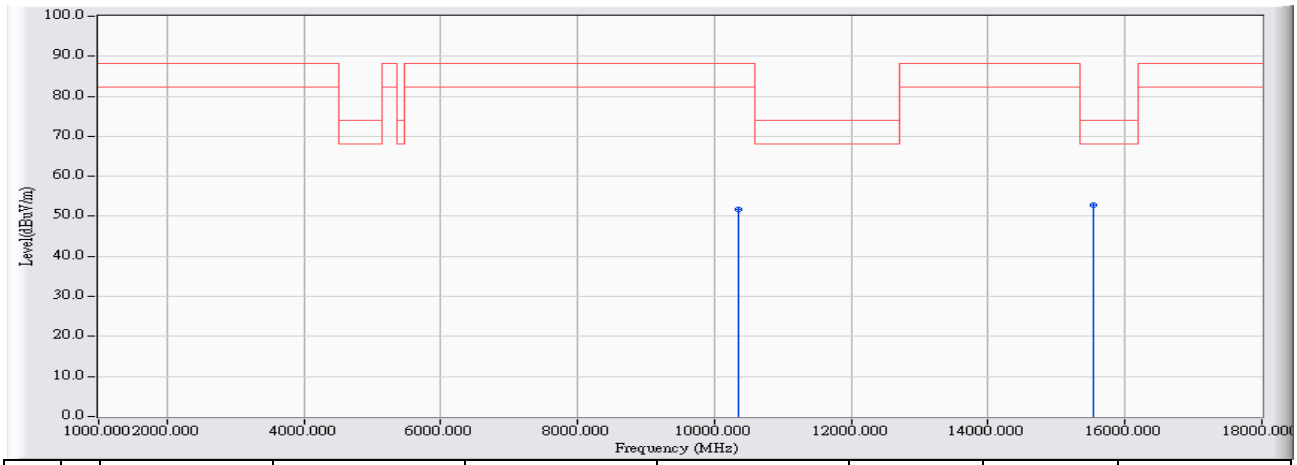
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	63.950	-7.472	33.314	25.842	-14.158	40.000	QUASIPEAK
2		125.383	-9.227	34.381	25.155	-18.345	43.500	QUASIPEAK
3		374.350	-11.555	38.401	26.845	-19.155	46.000	QUASIPEAK
4		500.450	-9.756	33.549	23.794	-22.206	46.000	QUASIPEAK
5		624.933	-7.678	28.519	20.841	-25.159	46.000	QUASIPEAK
6		875.517	-8.997	31.889	22.892	-23.108	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 : 2012/08/17 - 10:33**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11a_5180MHz**

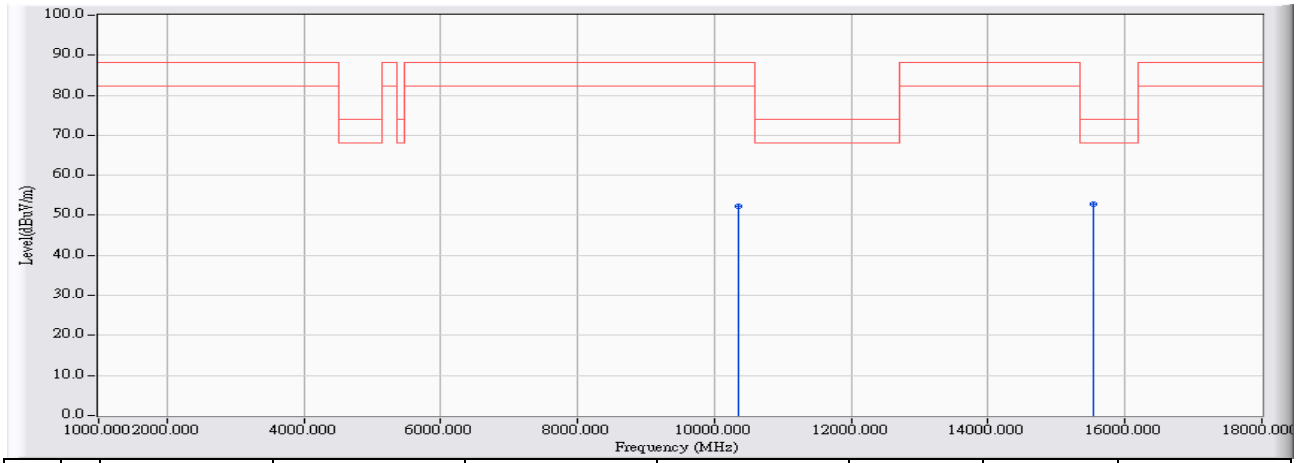


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10359.920	11.861	39.820	51.681	-36.619	88.300	PEAK
2	*	15535.250	18.440	34.400	52.840	-21.160	74.000	PEAK

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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/17 - 10:34**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11a_5180MHz**

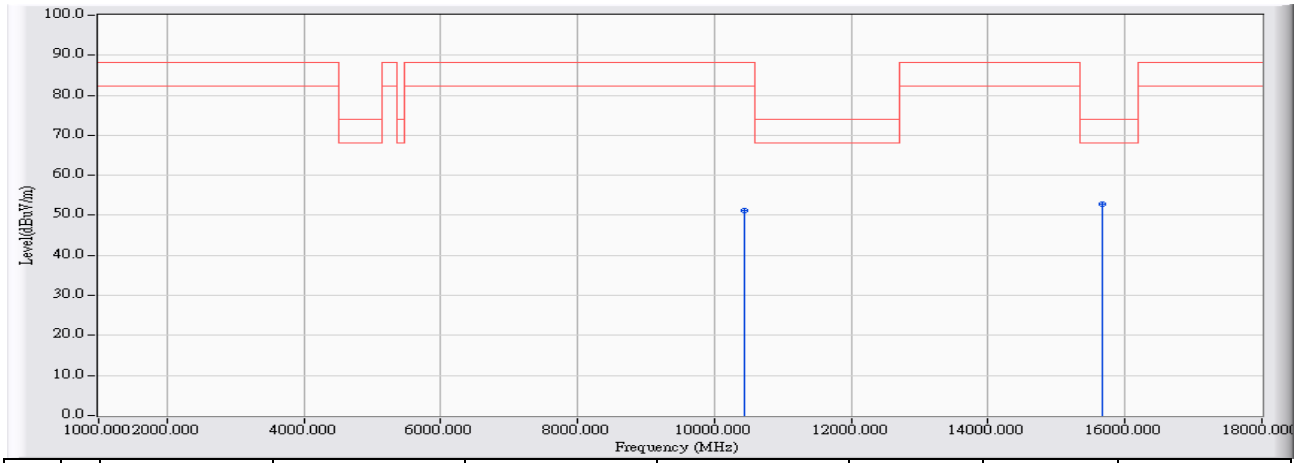


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10353.080	11.850	40.380	52.230	-36.070	88.300	PEAK
2	*	15534.670	18.441	34.470	52.911	-21.089	74.000	PEAK

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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/17 - 10:40**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11a_5220MHz**

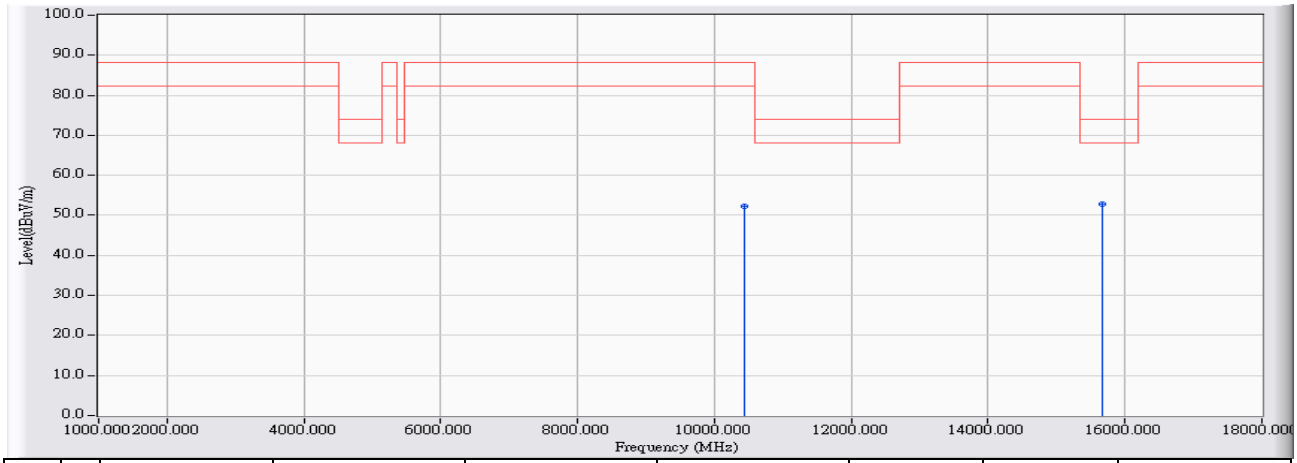


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10440.250	11.994	39.080	51.073	-37.227	88.300	PEAK
2	*	15659.500	18.277	34.620	52.897	-21.103	74.000	PEAK

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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/17 - 10:42**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11a_5220MHz**

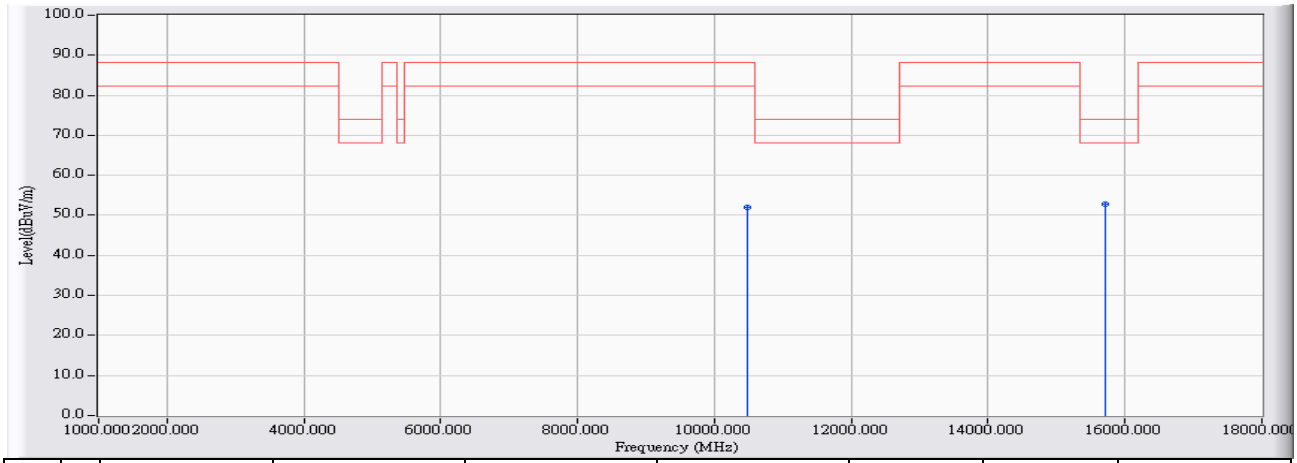


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10438.920	11.991	40.210	52.201	-36.099	88.300	PEAK
2	*	15658.330	18.278	34.560	52.838	-21.162	74.000	PEAK

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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/17 - 10:46**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11a_5240MHz**

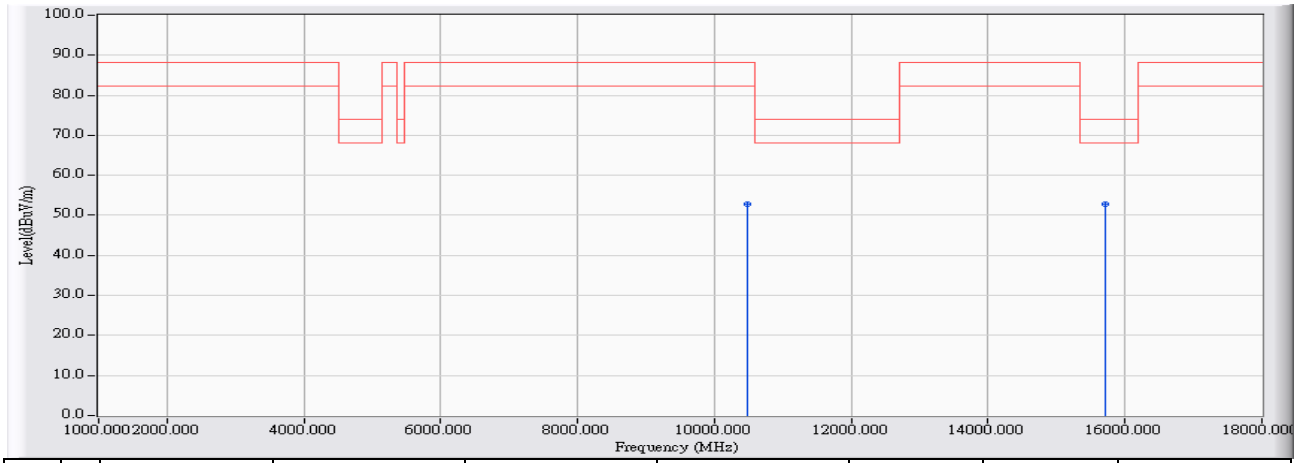


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10481.000	12.060	39.980	52.040	-36.260	88.300	PEAK
2	*	15721.830	18.195	34.580	52.775	-21.225	74.000	PEAK

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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/17 - 10:47**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11a_5240MHz**

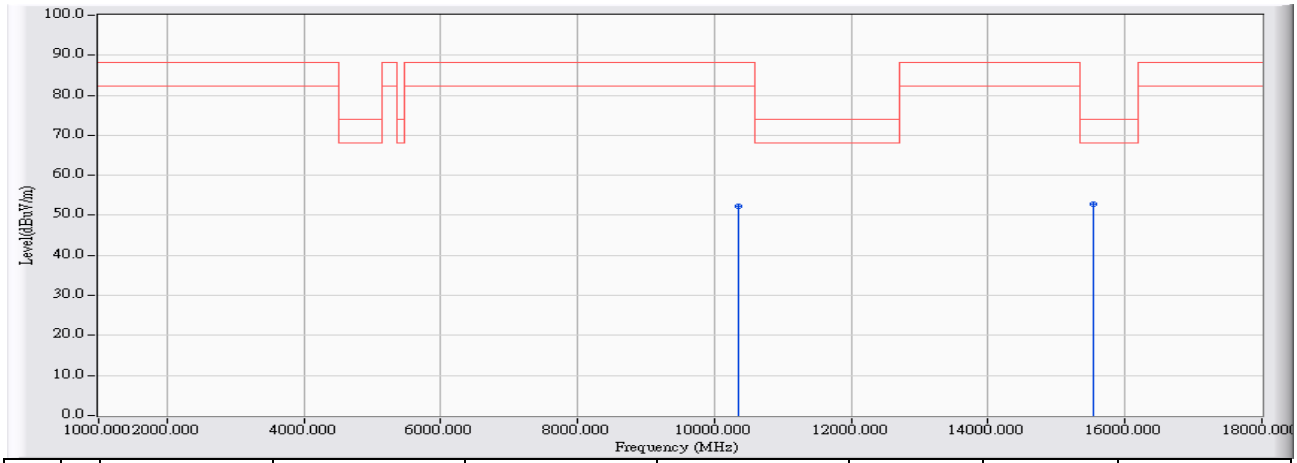


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10478.250	12.057	40.820	52.876	-35.424	88.300	PEAK
2	*	15720.750	18.196	34.750	52.946	-21.054	74.000	PEAK

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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/17 - 10:50**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n(20MHz)_5180MHz**

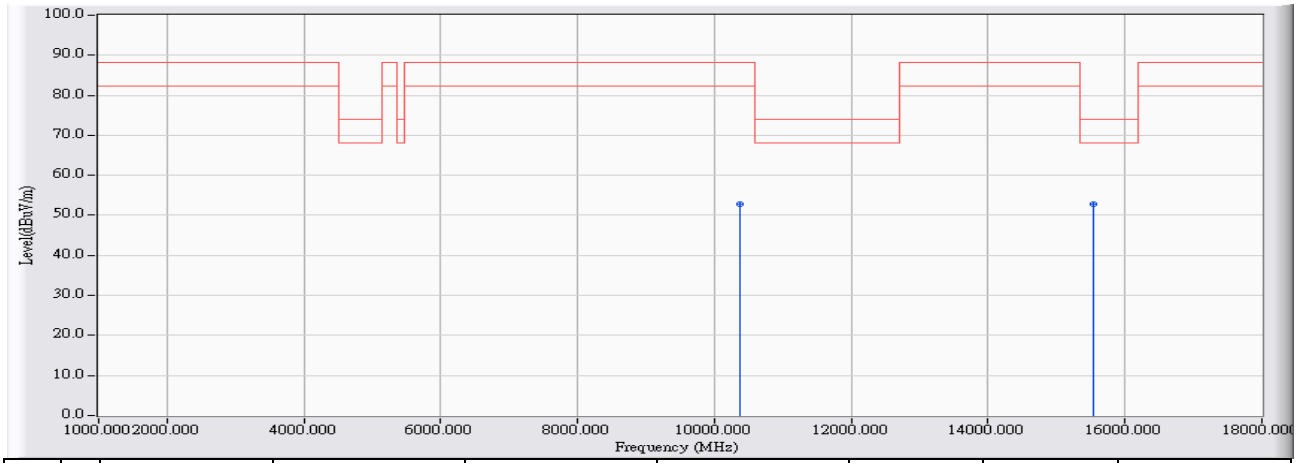


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10355.420	11.854	40.350	52.204	-36.096	88.300	PEAK
2	*	15543.830	18.429	34.410	52.839	-21.161	74.000	PEAK

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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/17 - 10:51**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole) 802.11n(20MHz)_5180MHz**

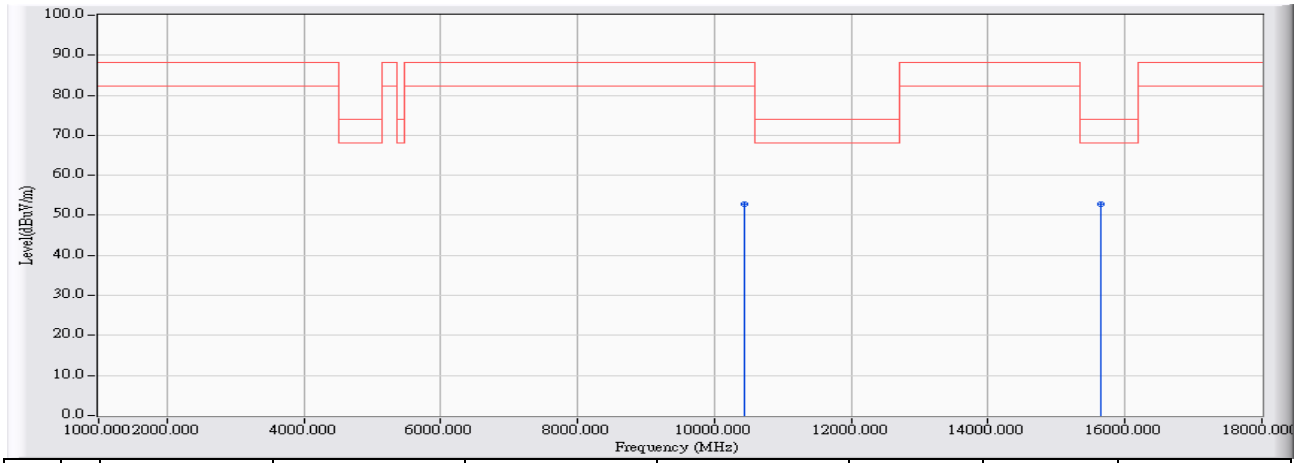


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10361.250	11.863	40.980	52.844	-35.456	88.300	PEAK
2	*	15547.500	18.424	34.460	52.884	-21.116	74.000	PEAK

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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/17 - 10:56**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole) 802.11n(20MHz)_5220MHz**

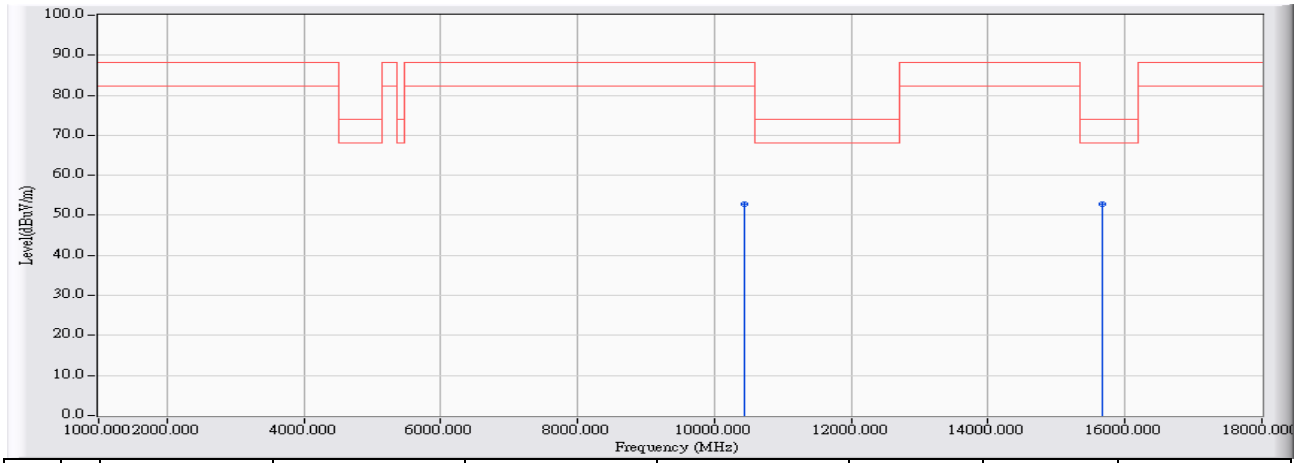


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10447.080	12.005	40.890	52.895	-35.405	88.300	PEAK
2	*	15656.500	18.281	34.560	52.841	-21.159	74.000	PEAK

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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/17 - 10:57**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n(20MHz)_5220MHz**

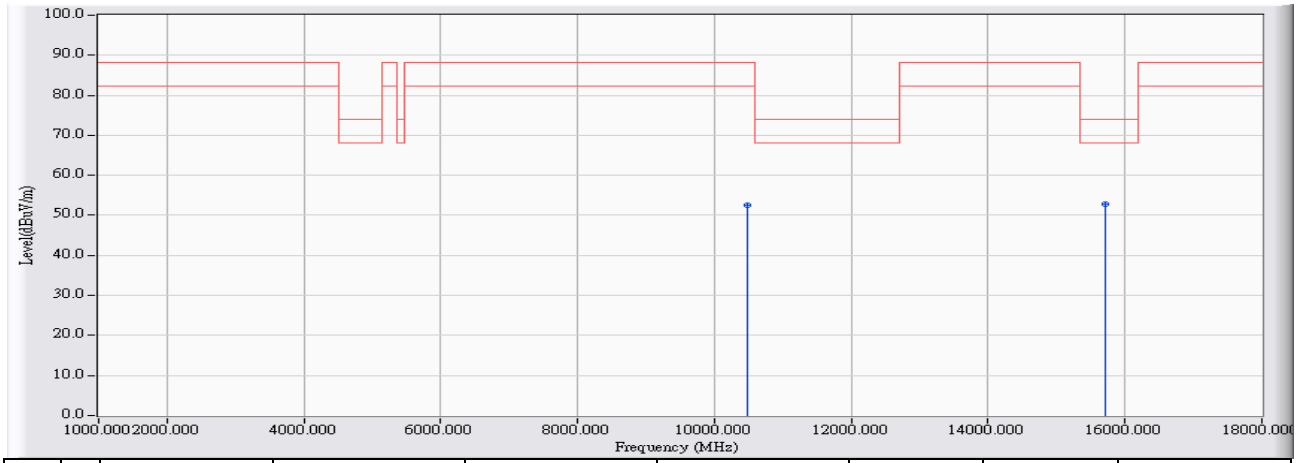


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10441.920	11.996	40.920	52.916	-35.384	88.300	PEAK
2	*	15659.000	18.277	34.550	52.827	-21.173	74.000	PEAK

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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/17 - 10:59**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole) 802.11n(20MHz)_5240MHz**

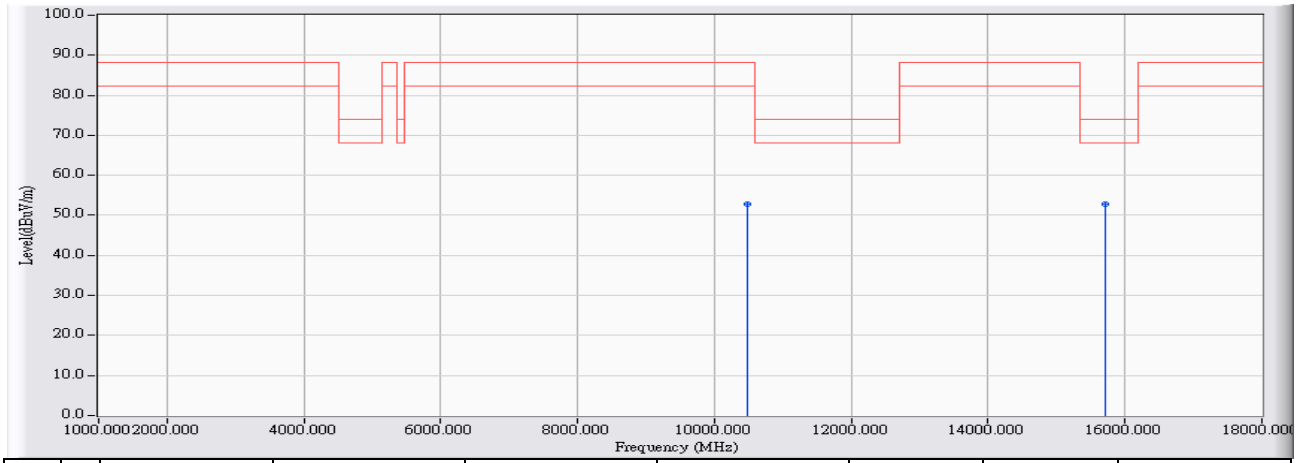


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10476.830	12.053	40.480	52.534	-35.766	88.300	PEAK
2	*	15720.670	18.196	34.700	52.896	-21.104	74.000	PEAK

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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/17 - 11:00**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n(20MHz)_5240MHz**

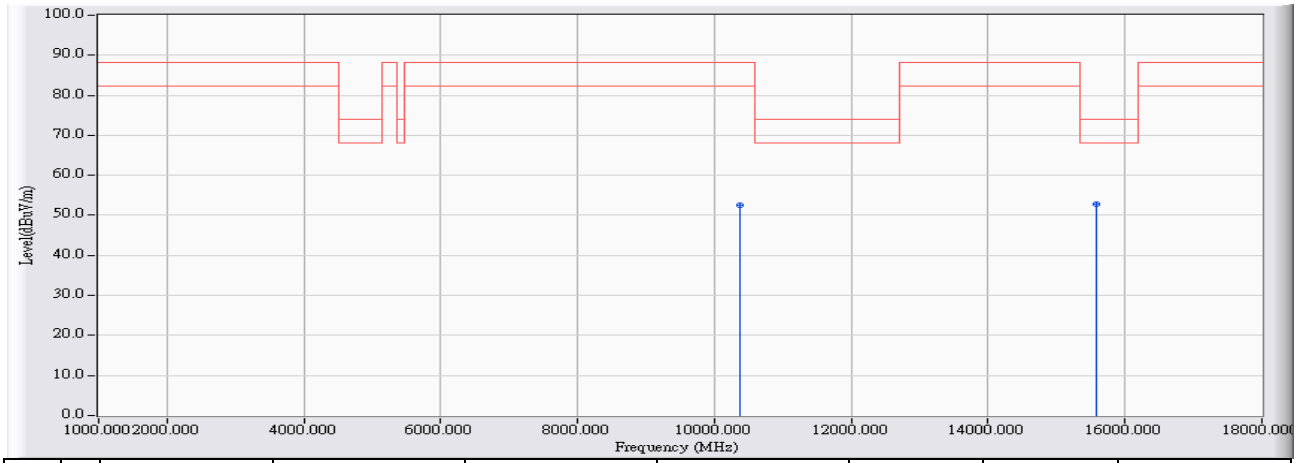


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10478.000	12.056	40.840	52.895	-35.405	88.300	PEAK
2	*	15720.470	18.196	34.560	52.756	-21.244	74.000	PEAK

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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/17 - 11:03**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole) 802.11n(40MHz)_5190MHz**

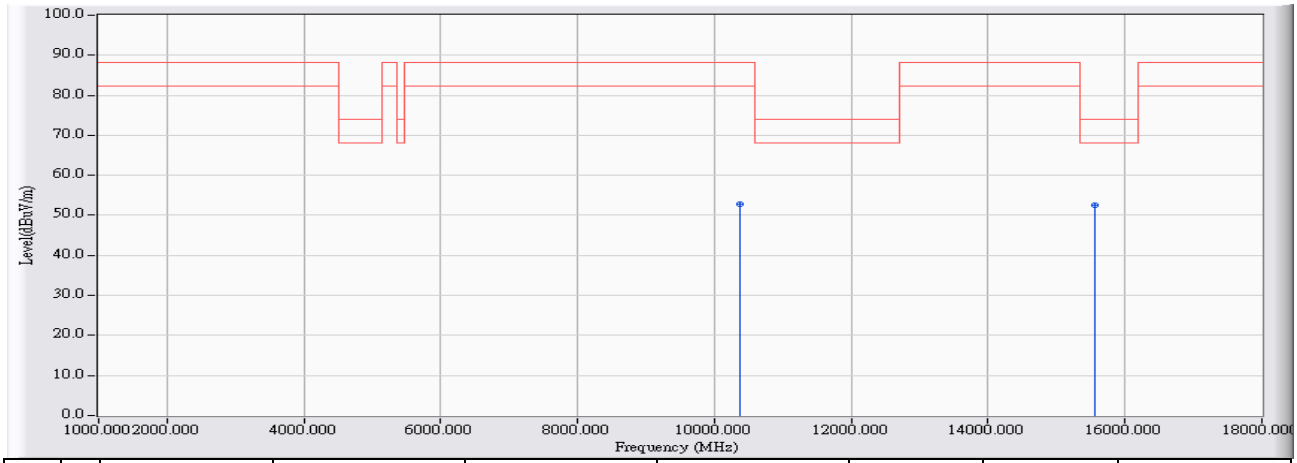


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10372.170	11.881	40.760	52.642	-35.658	88.300	PEAK
2	*	15579.500	18.382	34.430	52.812	-21.188	74.000	PEAK

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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/17 - 11:04**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n(40MHz)_5190MHz**

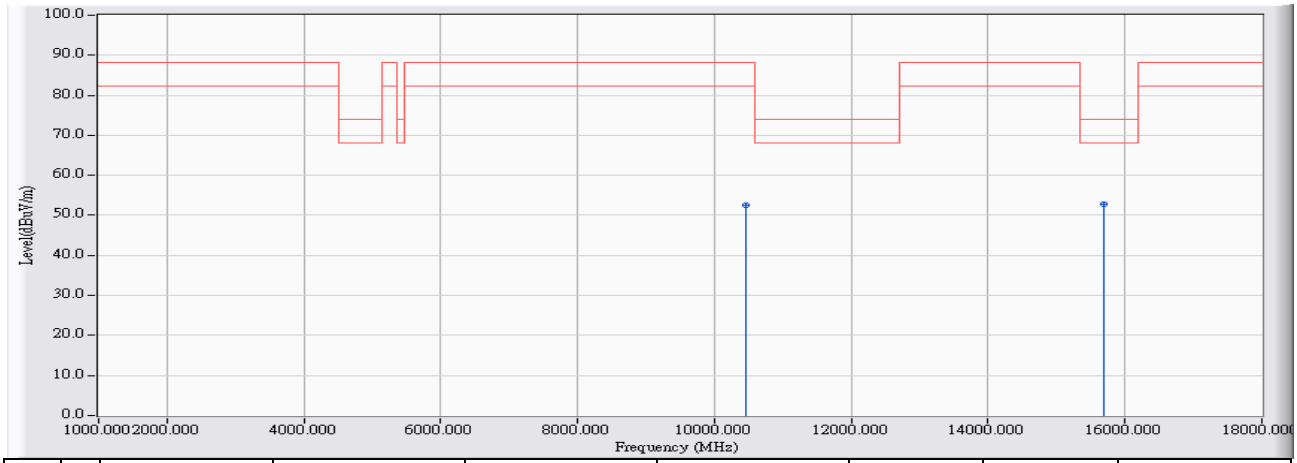


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10372.170	11.881	40.820	52.702	-35.598	88.300	PEAK
2	*	15569.170	18.395	34.260	52.655	-21.345	74.000	PEAK

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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/17 - 11:09**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n(40MHz)_5230MHz**

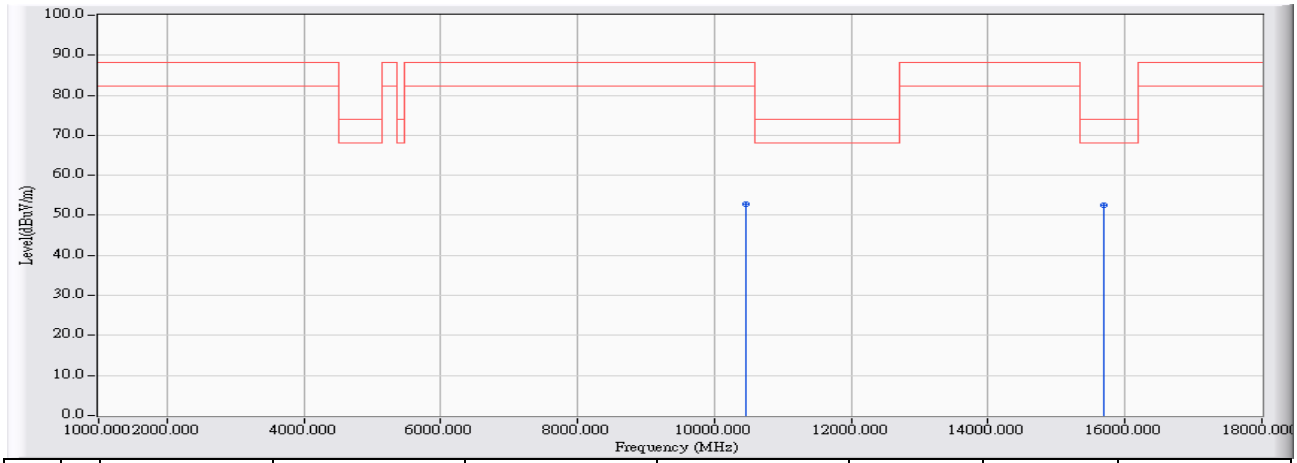


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10451.000	12.010	40.530	52.541	-35.759	88.300	PEAK
2	*	15686.830	18.240	34.450	52.691	-21.309	74.000	PEAK

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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/17 - 11:10**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n(40MHz)_5230MHz**

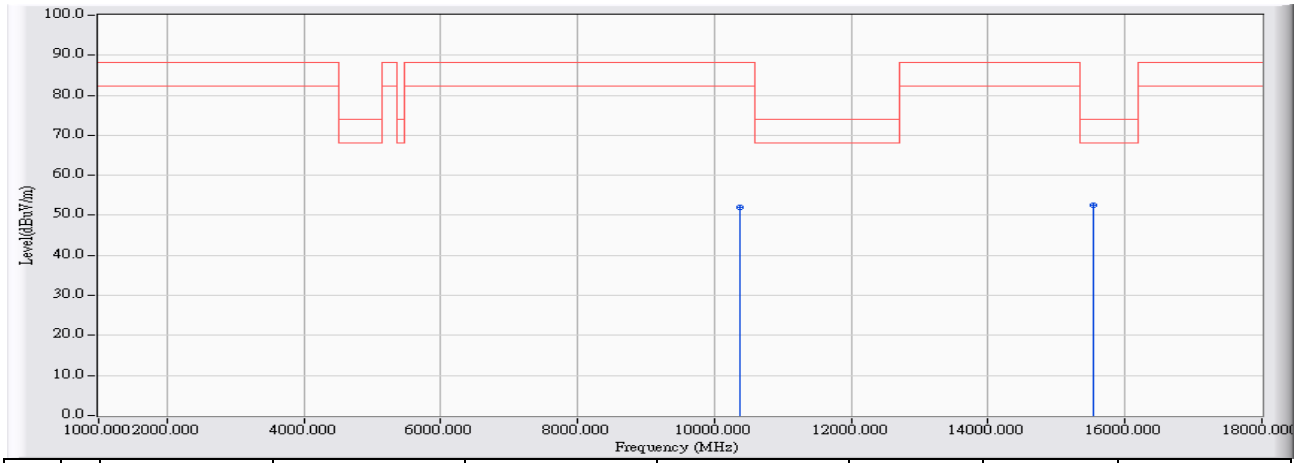


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10457.170	12.022	40.840	52.861	-35.439	88.300	PEAK
2	*	15697.830	18.227	34.360	52.586	-21.414	74.000	PEAK

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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/16 - 10:38**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11a_5180MHz**

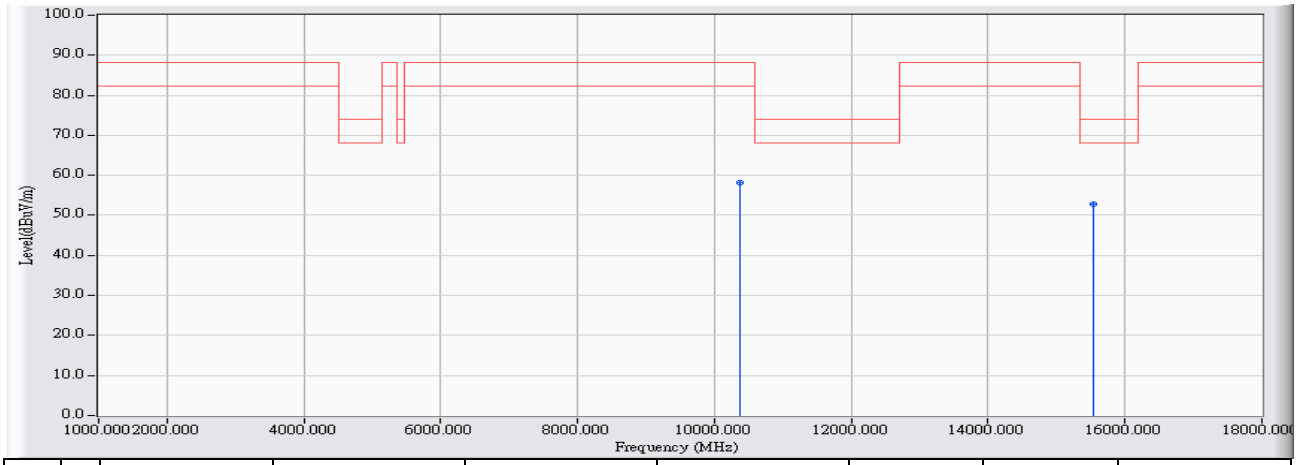


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10362.080	11.865	40.220	52.085	-36.215	88.300	PEAK
2	*	15540.920	18.433	34.210	52.643	-21.357	74.000	PEAK

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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/16 - 10:38**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11a_5180MHz**

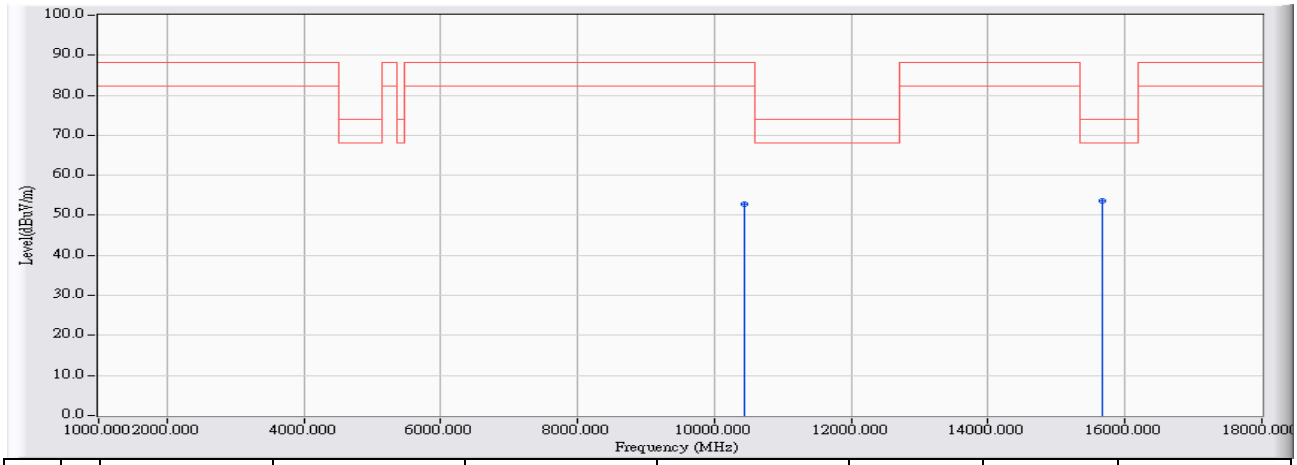


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10362.920	11.866	46.280	58.146	-30.154	88.300	PEAK
2	*	15539.170	18.435	34.390	52.825	-21.175	74.000	PEAK

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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/16 - 10:39**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11a_5220MHz**

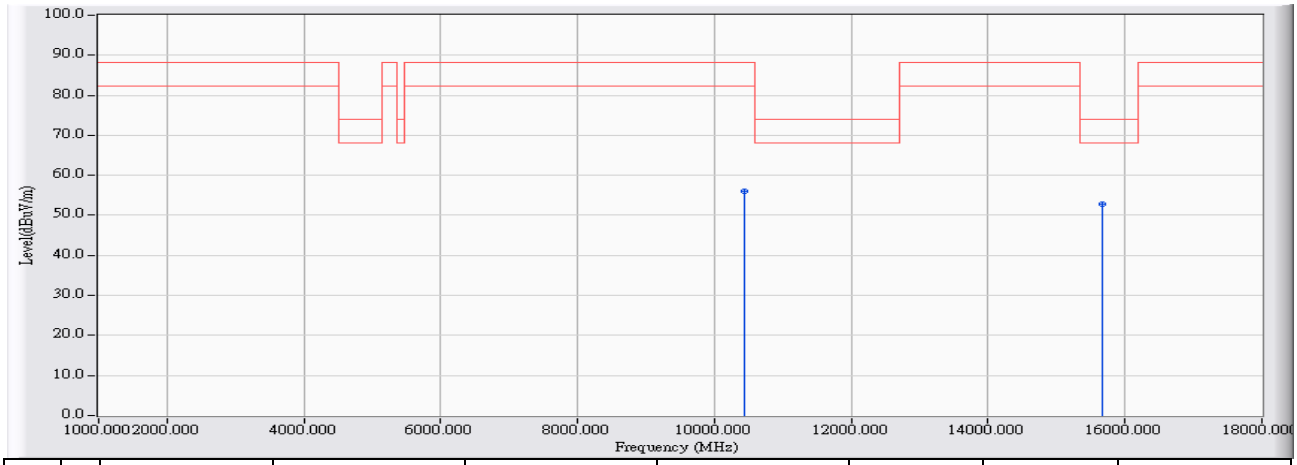


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10440.920	11.994	40.840	52.835	-35.465	88.300	PEAK
2	*	15667.080	18.266	35.440	53.707	-20.293	74.000	PEAK

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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/16 - 10:39**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11a_5220MHz**

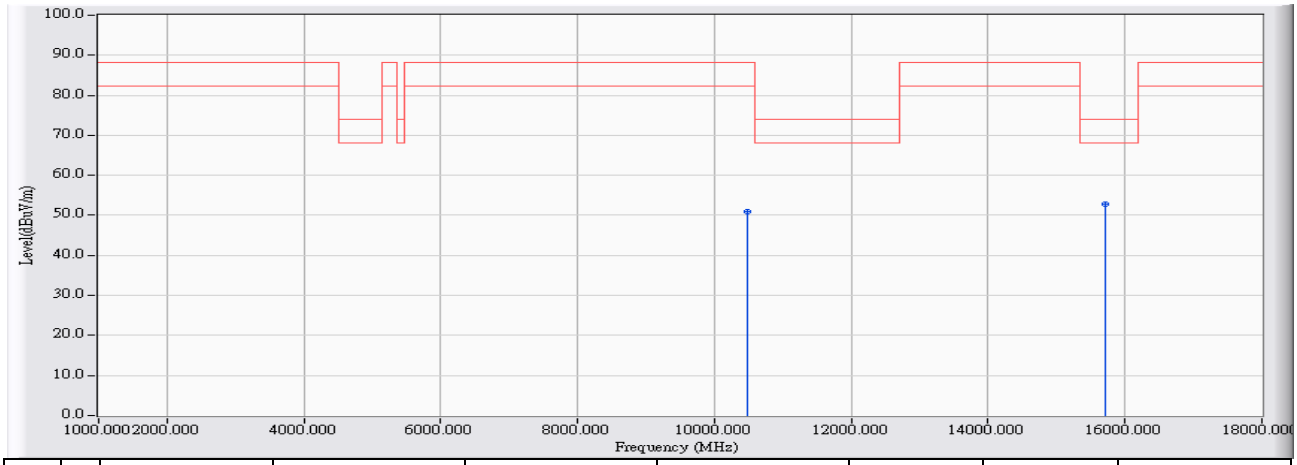


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10442.170	11.997	43.950	55.947	-32.353	88.300	PEAK
2	*	15659.330	18.277	34.590	52.867	-21.133	74.000	PEAK

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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/16 - 10:40**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11a_5240MHz**

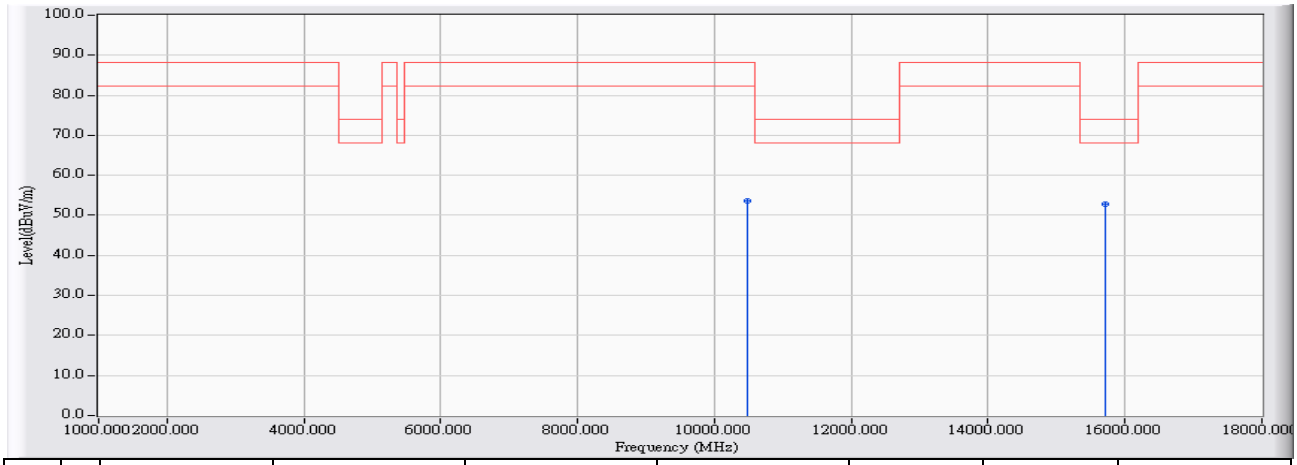


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10482.080	12.062	38.830	50.892	-37.408	88.300	PEAK
2	*	15716.830	18.201	34.690	52.891	-21.109	74.000	PEAK

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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/16 - 10:40**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11a_5240MHz**

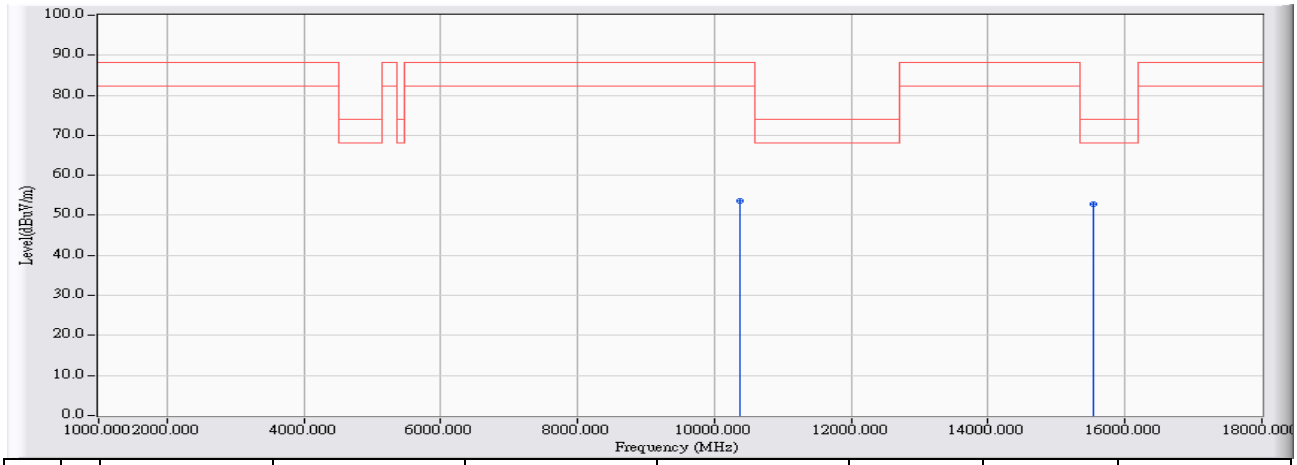


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10481.500	12.062	41.650	53.711	-34.589	88.300	PEAK
2	*	15719.000	18.199	34.700	52.898	-21.102	74.000	PEAK

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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/16 - 10:40**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n(20MHz)_5180MHz**

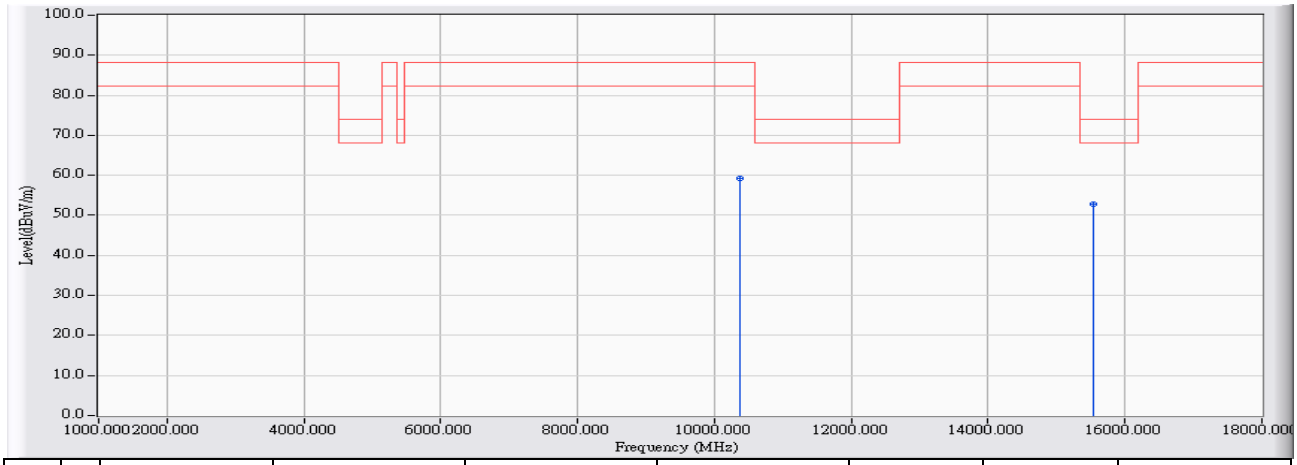


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10361.670	11.864	41.710	53.574	-34.726	88.300	PEAK
2	*	15545.080	18.428	34.470	52.897	-21.103	74.000	PEAK

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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/16 - 10:41**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n(20MHz)_5180MHz**

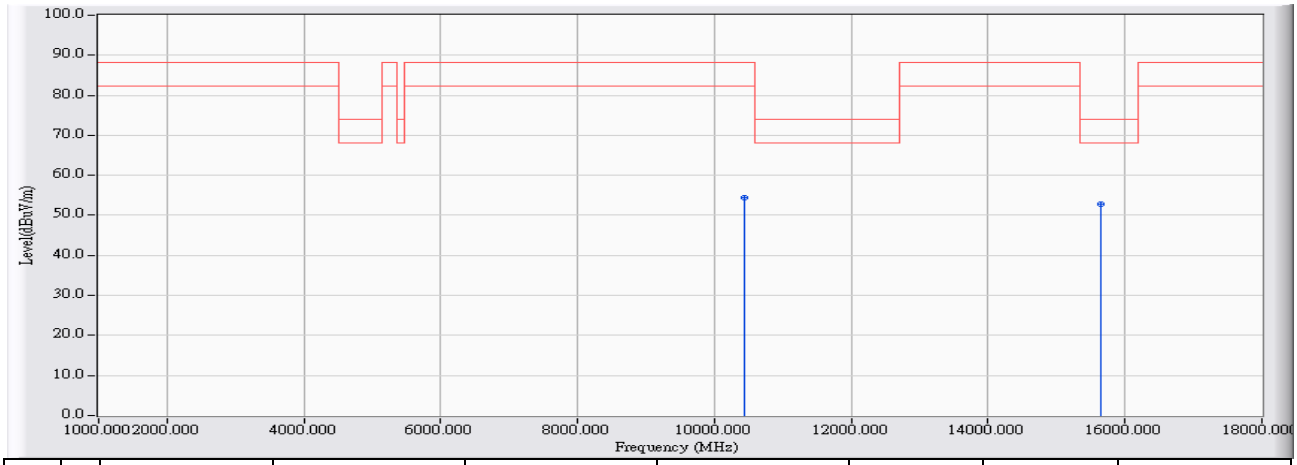


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10361.000	11.864	47.500	59.363	-28.937	88.300	PEAK
2	*	15537.500	18.437	34.320	52.757	-21.243	74.000	PEAK

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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/16 - 10:41**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n(20MHz)_5220MHz**

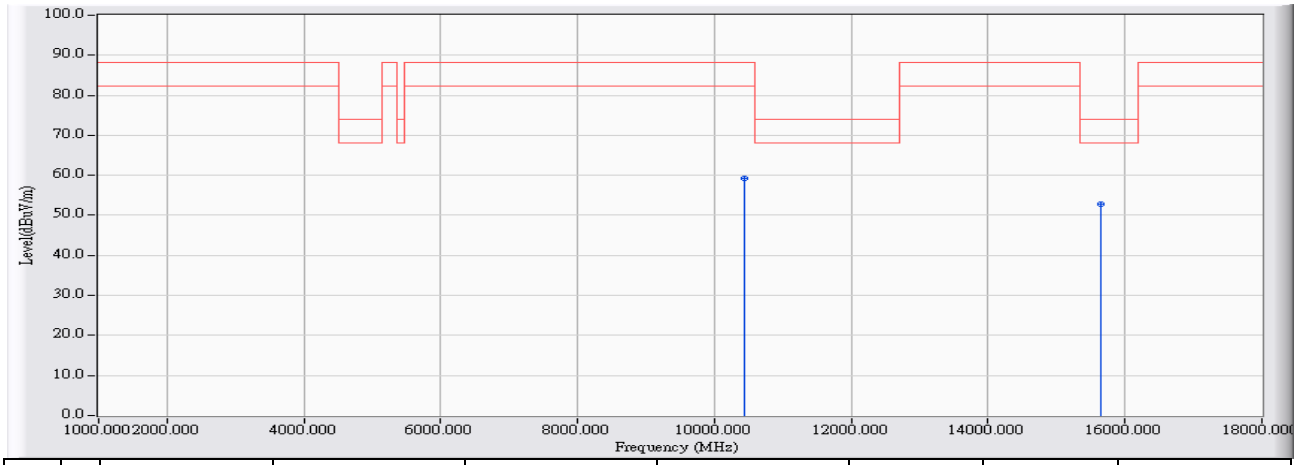


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10439.080	11.991	42.340	54.332	-33.968	88.300	PEAK
2	*	15653.170	18.285	34.460	52.745	-21.255	74.000	PEAK

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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/16 - 10:41**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n(20MHz)_5220MHz**

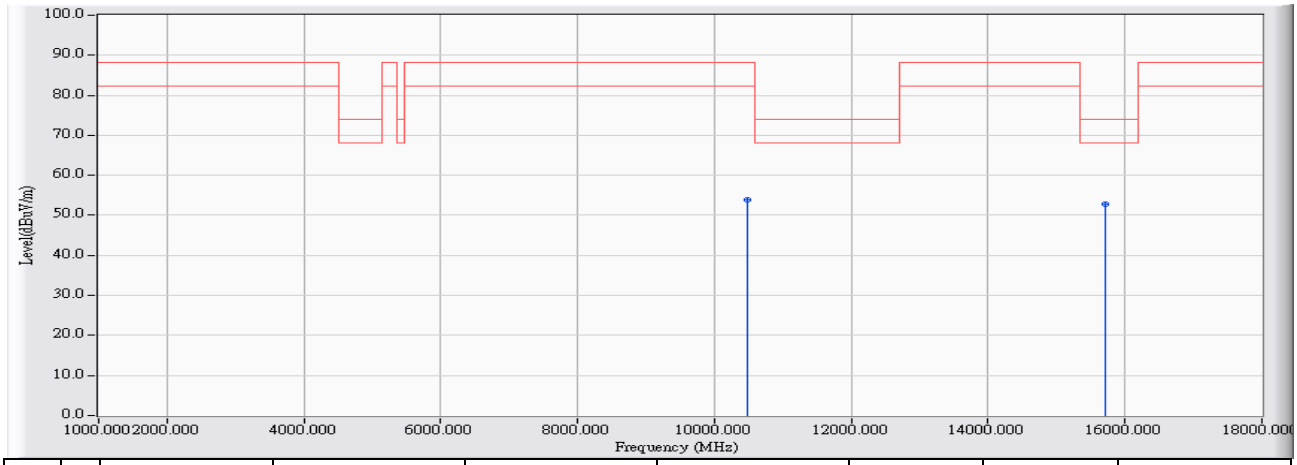


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10437.830	11.989	47.190	59.179	-29.121	88.300	PEAK
2	*	15636.170	18.308	34.580	52.887	-21.113	74.000	PEAK

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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/16 - 10:42**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n(20MHz)_5240MHz**

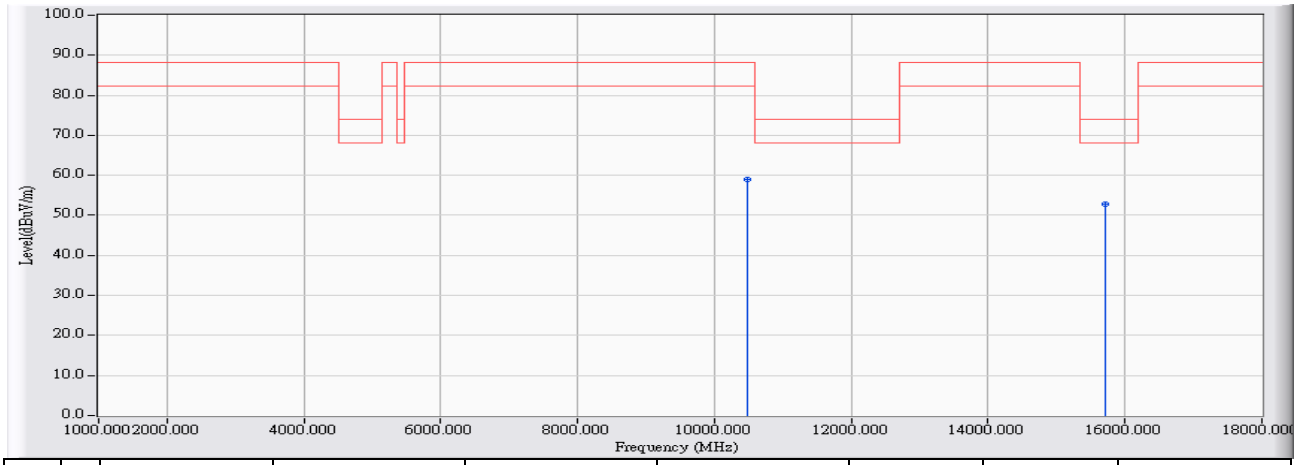


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10477.000	12.053	41.700	53.754	-34.546	88.300	PEAK
2	*	15716.250	18.202	34.680	52.882	-21.118	74.000	PEAK

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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/16 - 10:42**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n(20MHz)_5240MHz**

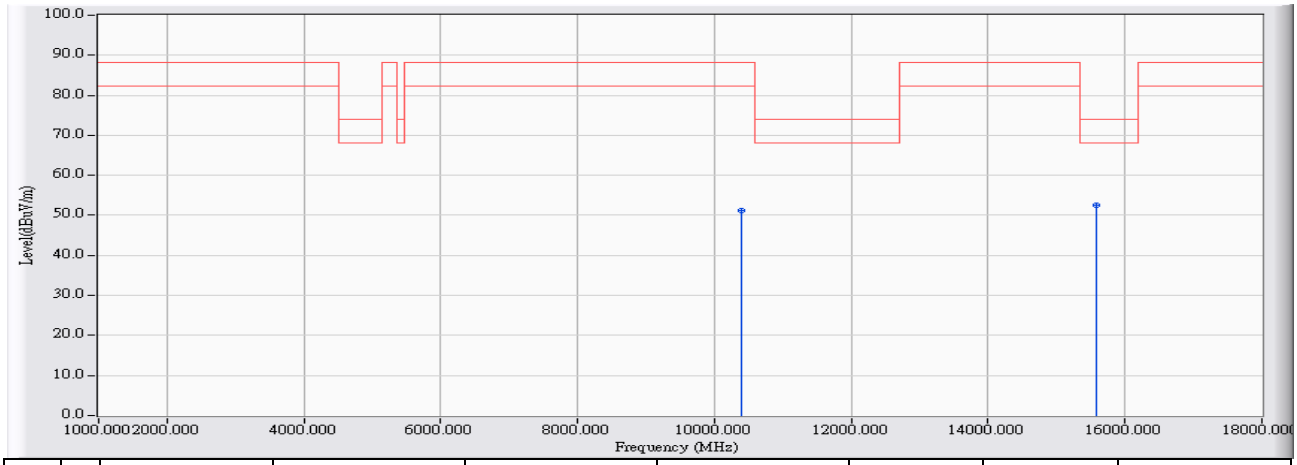


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10477.830	12.056	46.880	58.935	-29.365	88.300	PEAK
2	*	15721.080	18.196	34.600	52.796	-21.204	74.000	PEAK

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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/16 - 10:43**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n(40MHz)_5190MHz**

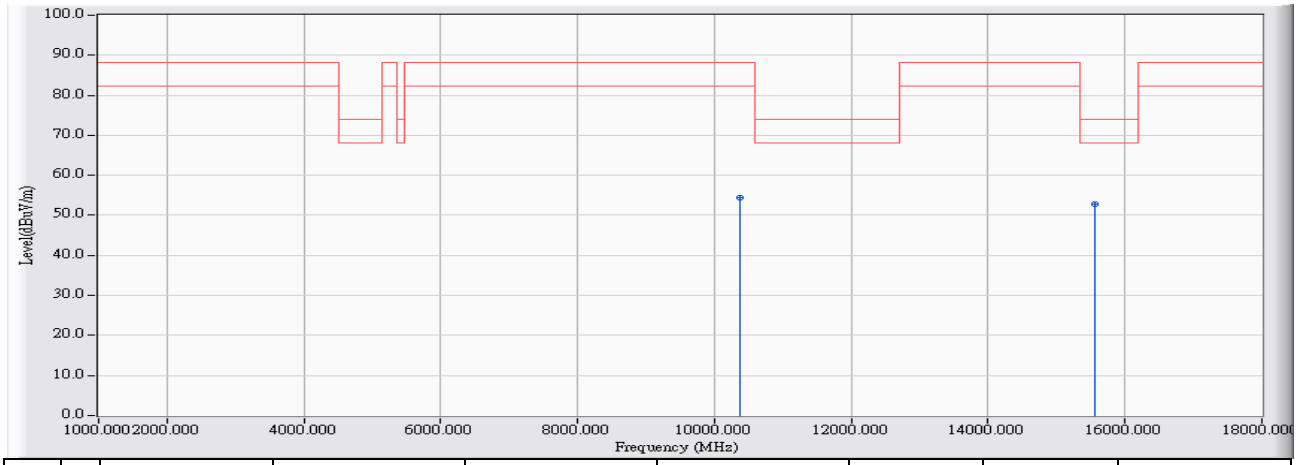


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10382.830	11.899	39.200	51.099	-37.201	88.300	PEAK
2	*	15588.330	18.370	34.200	52.570	-21.430	74.000	PEAK

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. “ # ”, means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/16 - 10:43**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n(40MHz)_5190MHz**

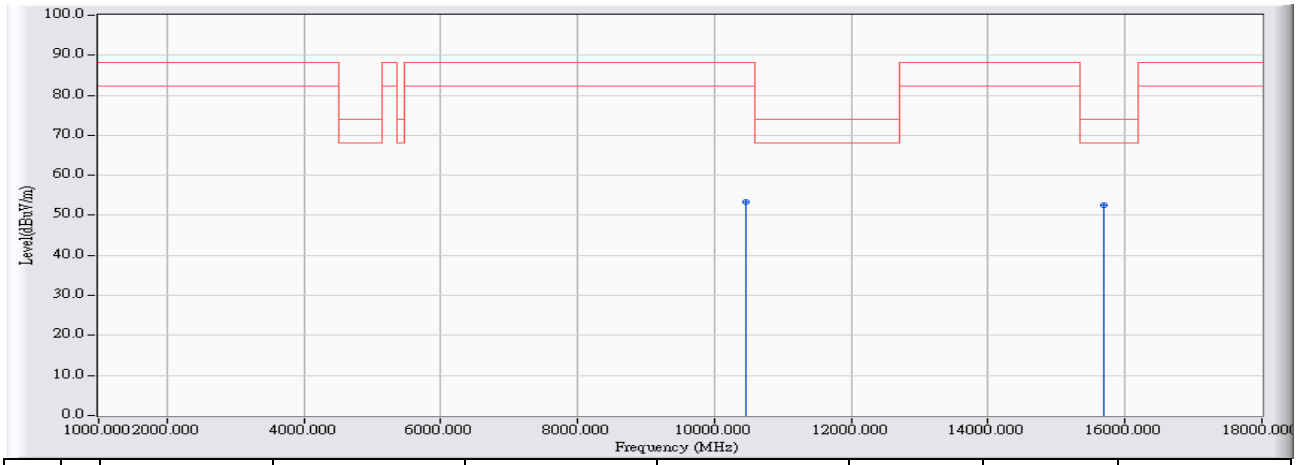


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10376.000	11.888	42.570	54.458	-33.842	88.300	PEAK
2	*	15569.830	18.394	34.300	52.695	-21.305	74.000	PEAK

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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/16 - 10:43**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n(40MHz)_5230MHz**

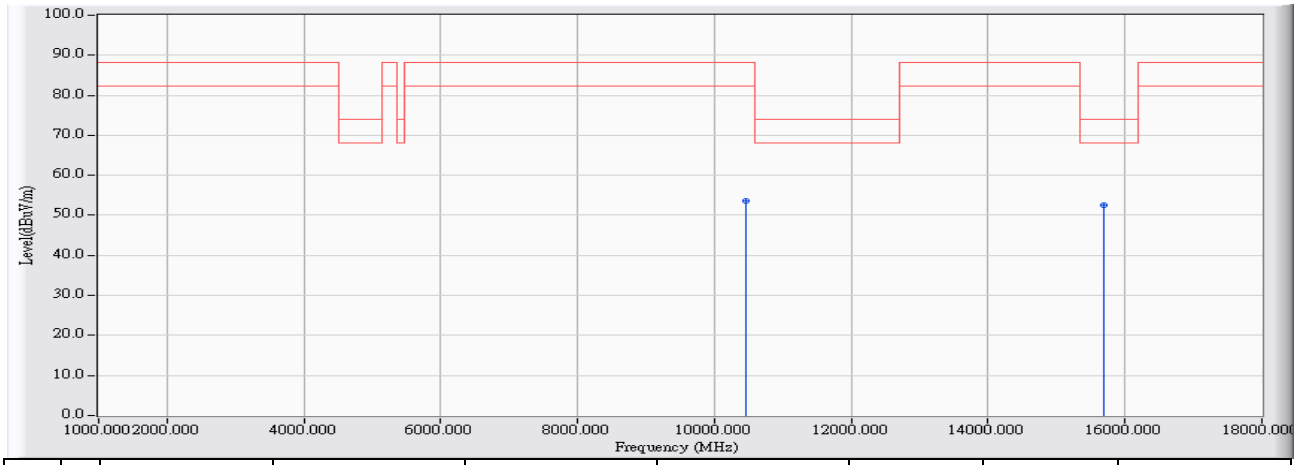


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10464.170	12.033	41.210	53.243	-35.057	88.300	PEAK
2	*	15683.670	18.245	34.320	52.565	-21.435	74.000	PEAK

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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB1	**Time : 2012/08/16 - 10:44**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n(40MHz)_5230MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	#	10459.170	12.025	41.720	53.744	-34.556	88.300	PEAK
2	*	15691.170	18.235	34.210	52.445	-21.555	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. " # ", means the frequency is out of the restricted band.
6. Measurement Level = Reading Level + Correct Factor.
7. 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:

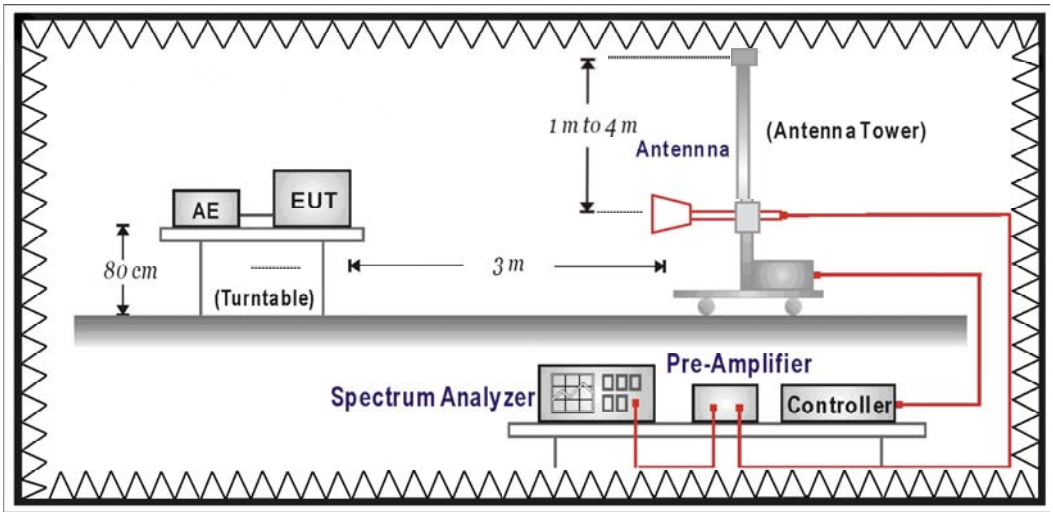
Radiated Emission Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120D	743	2013/02/02
Spectrum Analyzer	Agilent	E4440A	MY46187335	2013/02/07
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2013/03/04

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 (R&S Test Receiver ESCS 30)is 120 KHz, above 1GHz are 1 MHz.

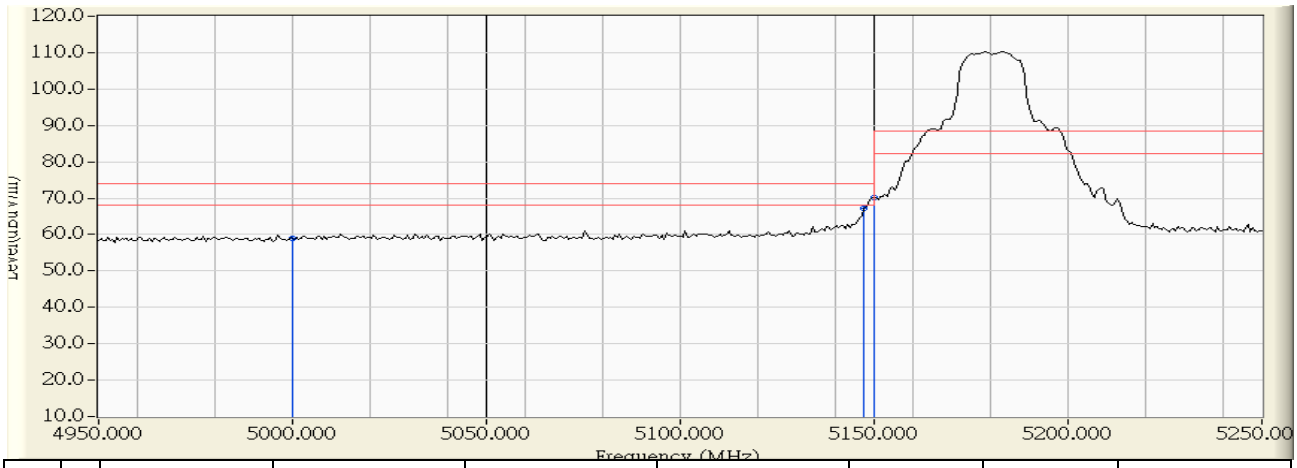
8.5. Uncertainty

The measurement uncertainty is defined as ± 3.65dB

8.6. Test Result

Radiated is defined as

Site : CB1	**Time : 2012/07/24 - 10:16**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11a_CH36**

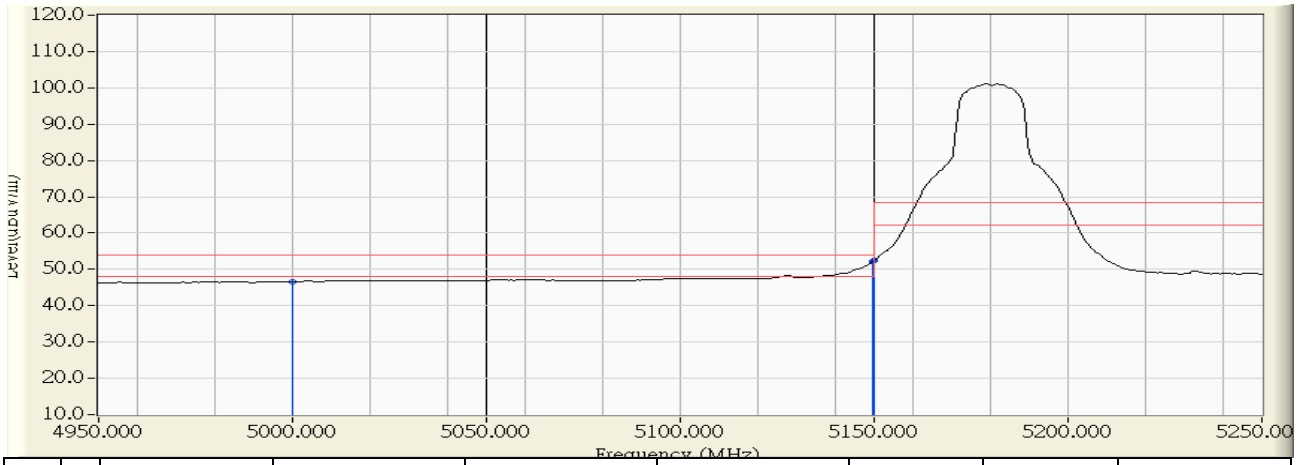


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	59.390	59.067	-14.933	74.000	PEAK
2		5147.400	0.811	66.324	67.134	-6.866	74.000	PEAK
3	*	5150.000	0.831	69.388	70.219	-3.781	74.000	PEAK

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 : 2012/07/24 - 10:17**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11a_CH36**

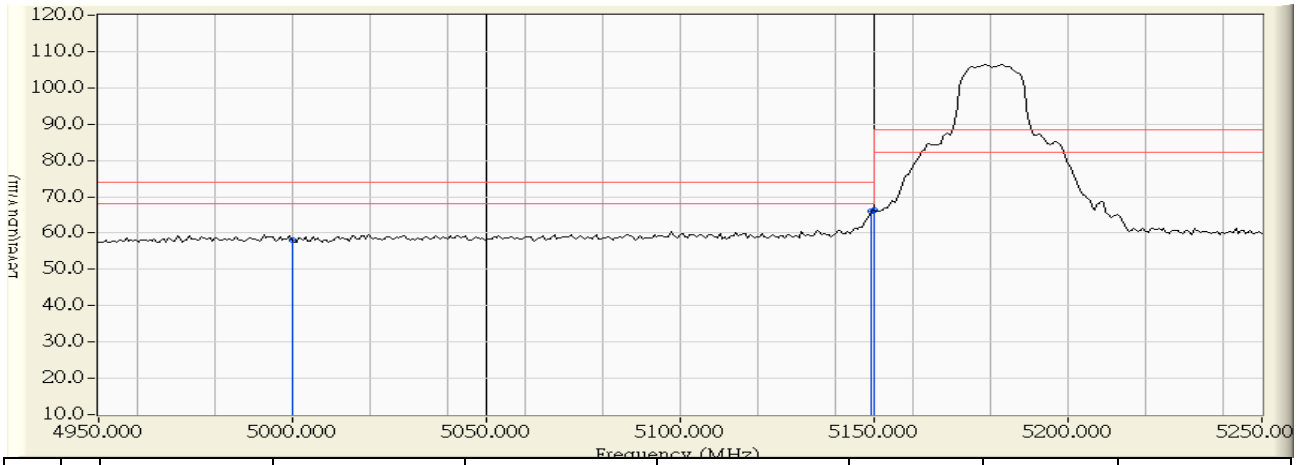


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	46.942	46.619	-7.381	54.000	AVERAGE
2		5149.800	0.830	51.382	52.211	-1.789	54.000	AVERAGE
3	*	5150.000	0.831	51.527	52.358	-1.642	54.000	AVERAGE

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 : 2012/07/24 - 10:17**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11a_CH36**

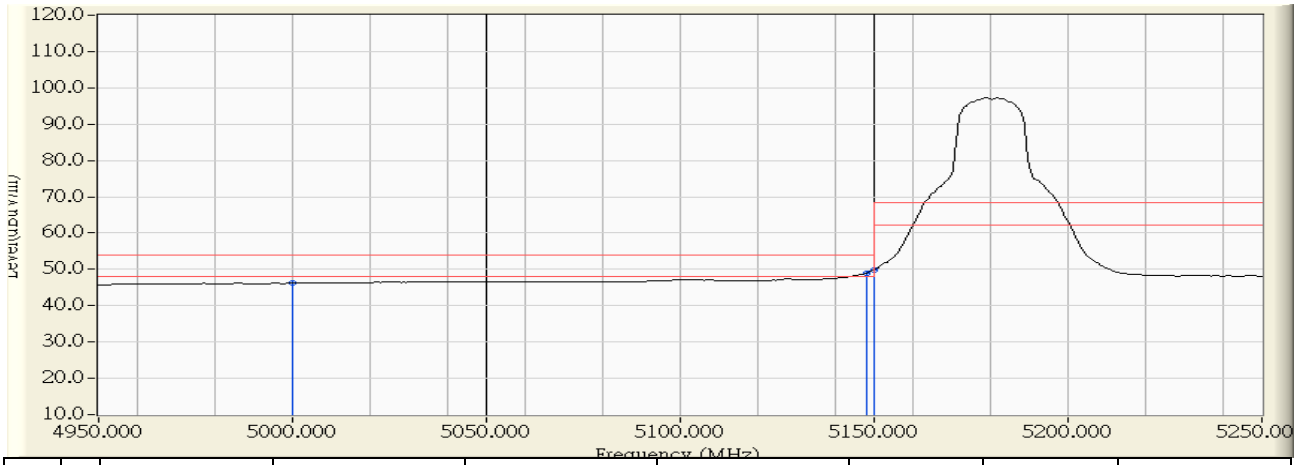


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	58.415	58.092	-15.908	74.000	PEAK
2		5149.200	0.824	65.117	65.941	-8.059	74.000	PEAK
3	*	5150.000	0.831	65.450	66.281	-7.719	74.000	PEAK

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 : 2012/07/24 - 10:17**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11a_CH36**

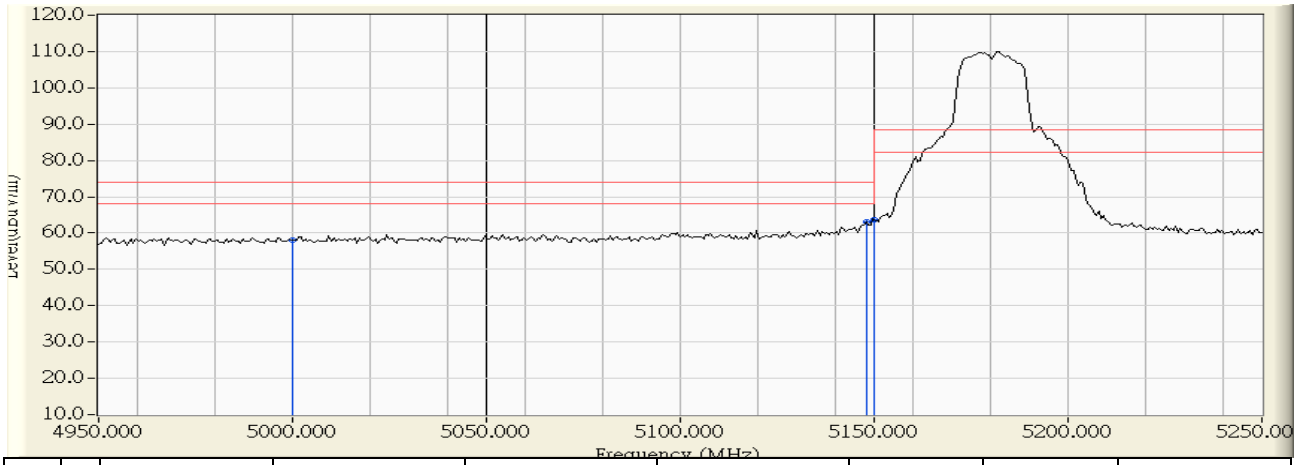


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	46.459	46.136	-7.864	54.000	AVERAGE
2		5148.000	0.815	48.156	48.971	-5.029	54.000	AVERAGE
3	*	5150.000	0.831	49.044	49.875	-4.125	54.000	AVERAGE

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 : 2012/07/24 - 10:17**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n 20MHz_CH36**

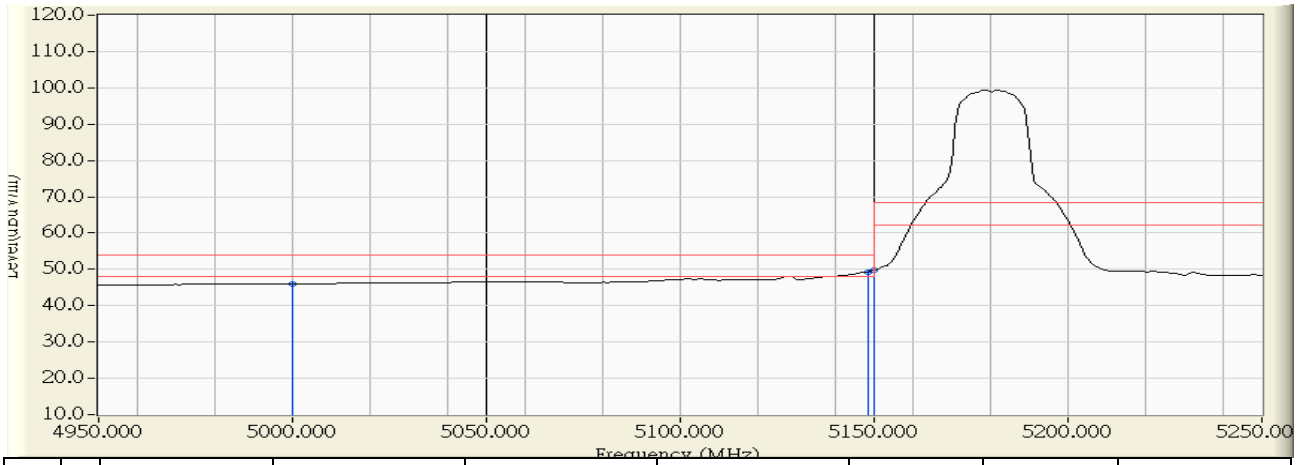


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	58.458	58.135	-15.865	74.000	PEAK
2		5148.000	0.815	62.225	63.040	-10.960	74.000	PEAK
3	*	5150.000	0.831	62.840	63.671	-10.329	74.000	PEAK

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 : 2012/07/24 - 10:18**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n 20MHz_CH36**

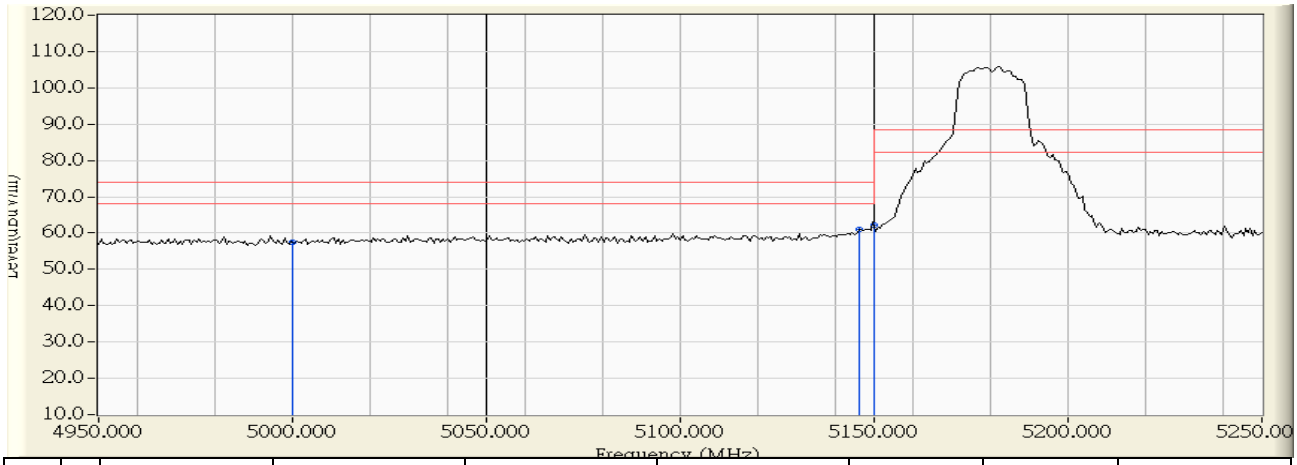


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	46.321	45.998	-8.002	54.000	AVERAGE
2		5148.600	0.820	48.497	49.317	-4.683	54.000	AVERAGE
3	*	5150.000	0.831	48.877	49.708	-4.292	54.000	AVERAGE

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 : 2012/07/24 - 10:18**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n 20MHz_CH36**

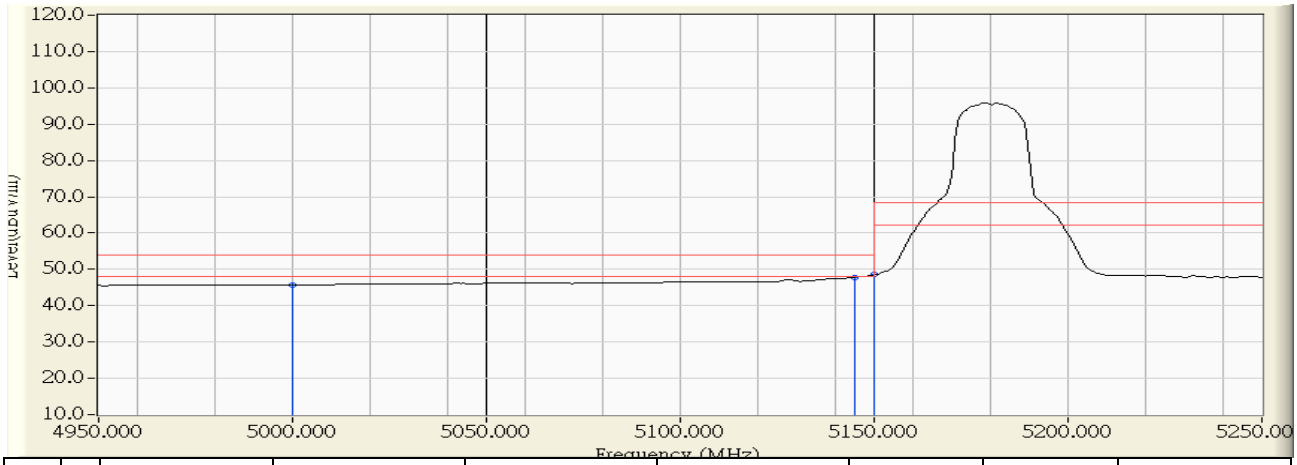


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	57.806	57.483	-16.517	74.000	PEAK
2		5146.200	0.801	60.155	60.956	-13.044	74.000	PEAK
3	*	5150.000	0.831	61.404	62.235	-11.765	74.000	PEAK

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 : 2012/07/24 - 10:18**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n 20MHz_CH36**

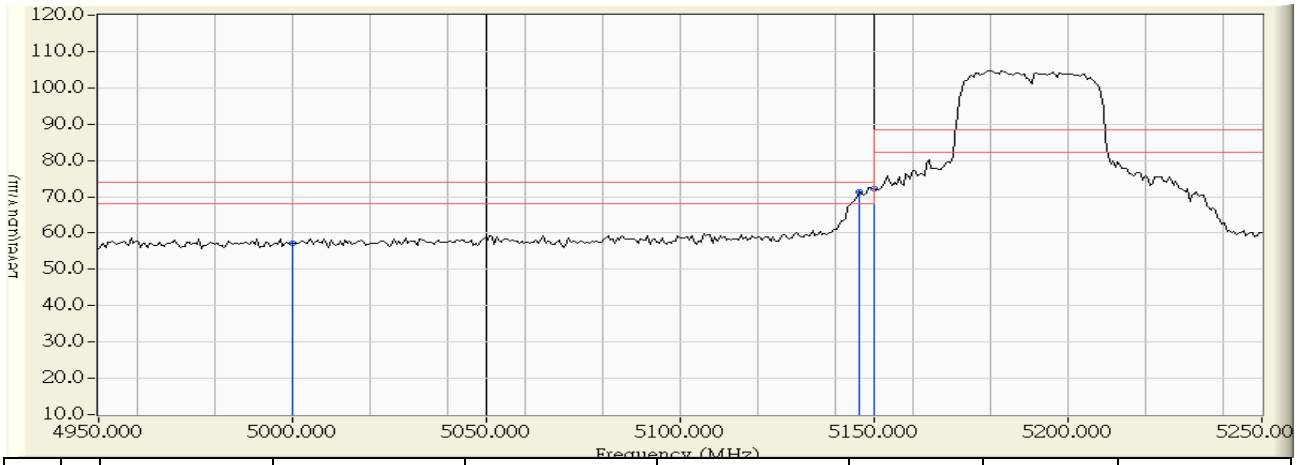


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	46.069	45.746	-8.254	54.000	AVERAGE
2		5145.000	0.792	47.048	47.840	-6.160	54.000	AVERAGE
3	*	5150.000	0.831	47.662	48.493	-5.507	54.000	AVERAGE

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 : 2012/08/08 - 18:15**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n 40MHz_CH38**

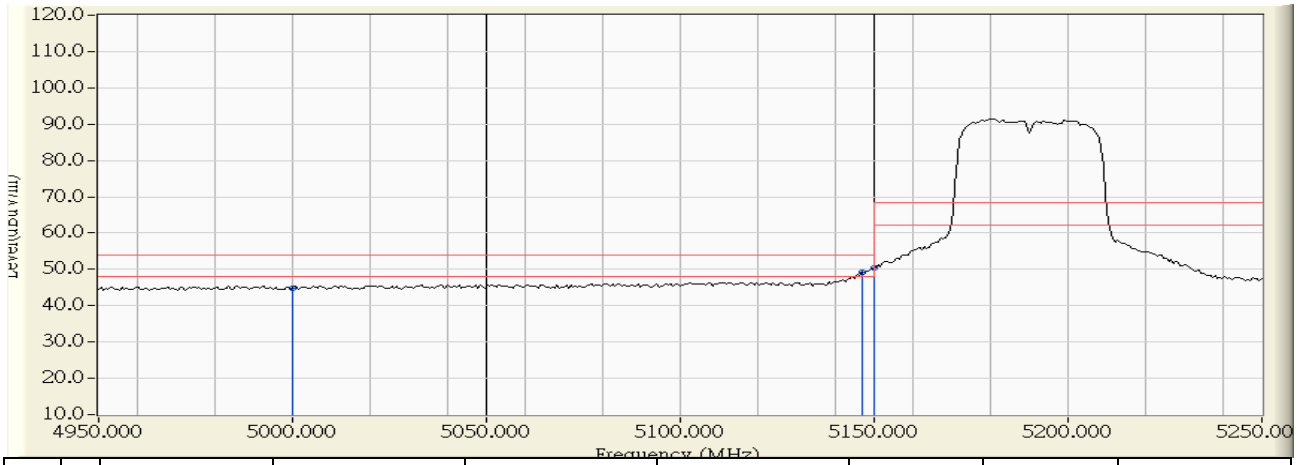


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	57.531	57.208	-16.792	74.000	PEAK
2		5146.200	0.801	70.432	71.233	-2.767	74.000	PEAK
3	*	5150.000	0.831	71.329	72.160	-1.840	74.000	PEAK

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 : 2012/08/08 - 18:15**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n 40MHz_CH38**

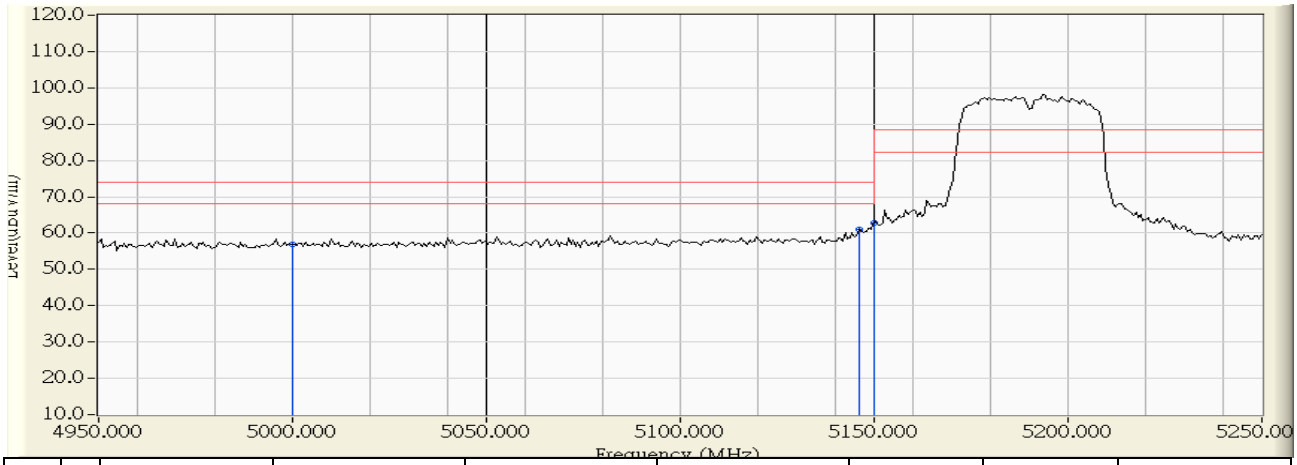


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	45.158	44.835	-9.165	54.000	AVERAGE
2		5146.800	0.806	48.514	49.320	-4.680	54.000	AVERAGE
3	*	5150.000	0.831	49.499	50.330	-3.670	54.000	AVERAGE

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 : 2012/08/08 - 18:15**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n 40MHz_CH38**

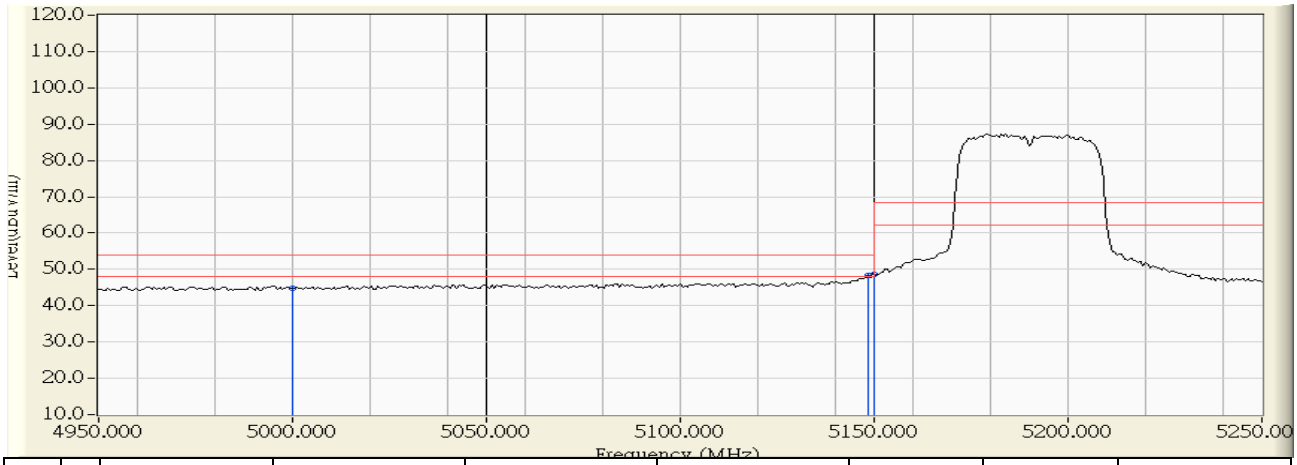


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	57.292	56.969	-17.031	74.000	PEAK
2		5146.200	0.801	60.325	61.126	-12.874	74.000	PEAK
3	*	5150.000	0.831	61.813	62.644	-11.356	74.000	PEAK

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 : 2012/08/08 - 18:15**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 1: Transmit (Ant.: Dipole)** **802.11n 40MHz_CH38**

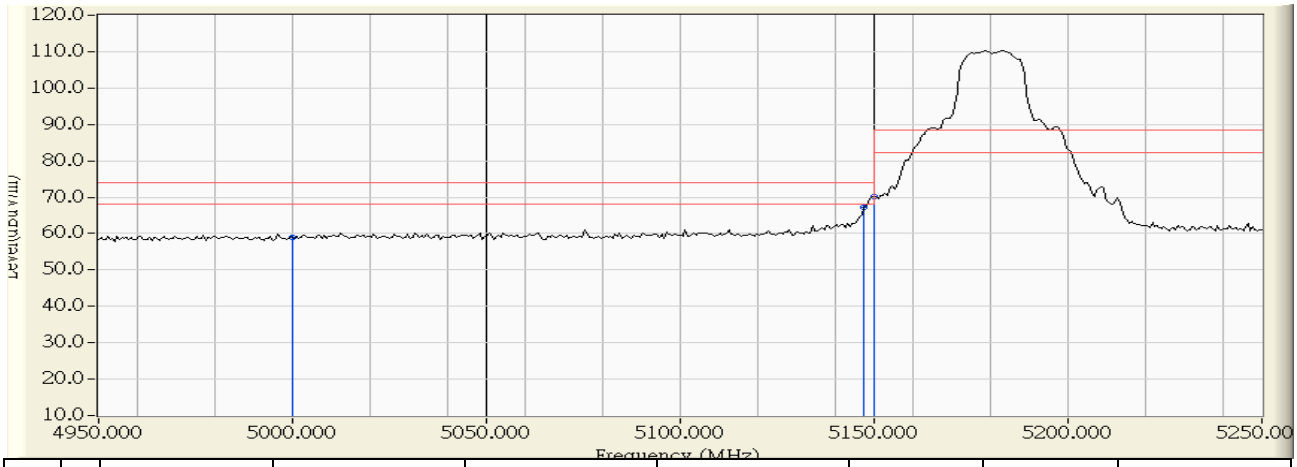


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	45.113	44.790	-9.210	54.000	AVERAGE
2		5148.600	0.820	47.640	48.460	-5.540	54.000	AVERAGE
3	*	5150.000	0.831	47.855	48.686	-5.314	54.000	AVERAGE

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 : 2012/07/24 - 10:16**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11a_CH36**

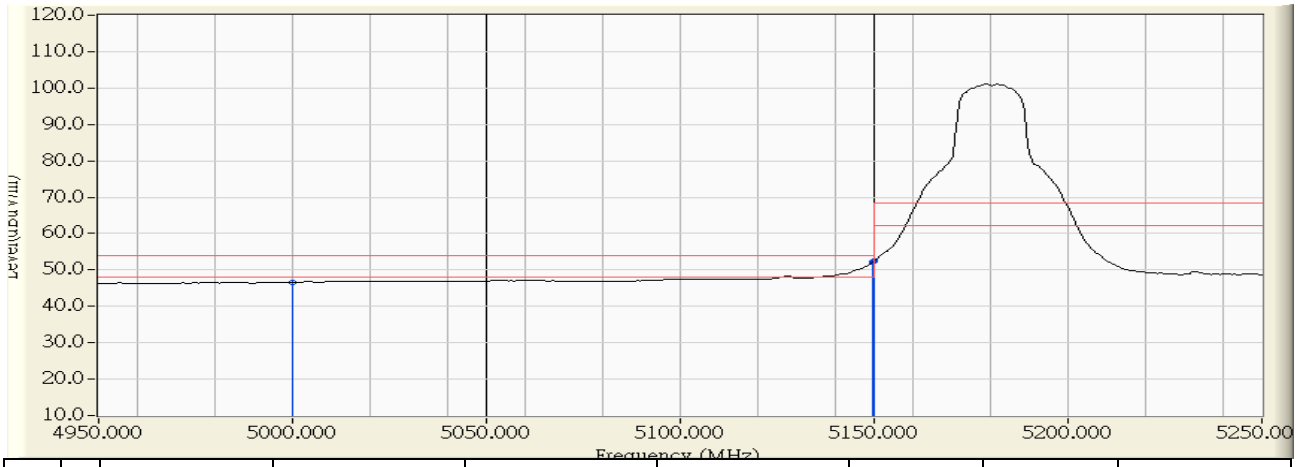


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	59.390	59.067	-14.933	74.000	PEAK
2		5147.400	0.811	66.324	67.134	-6.866	74.000	PEAK
3	*	5150.000	0.831	69.388	70.219	-3.781	74.000	PEAK

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 : 2012/07/24 - 10:17**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11a_CH36**

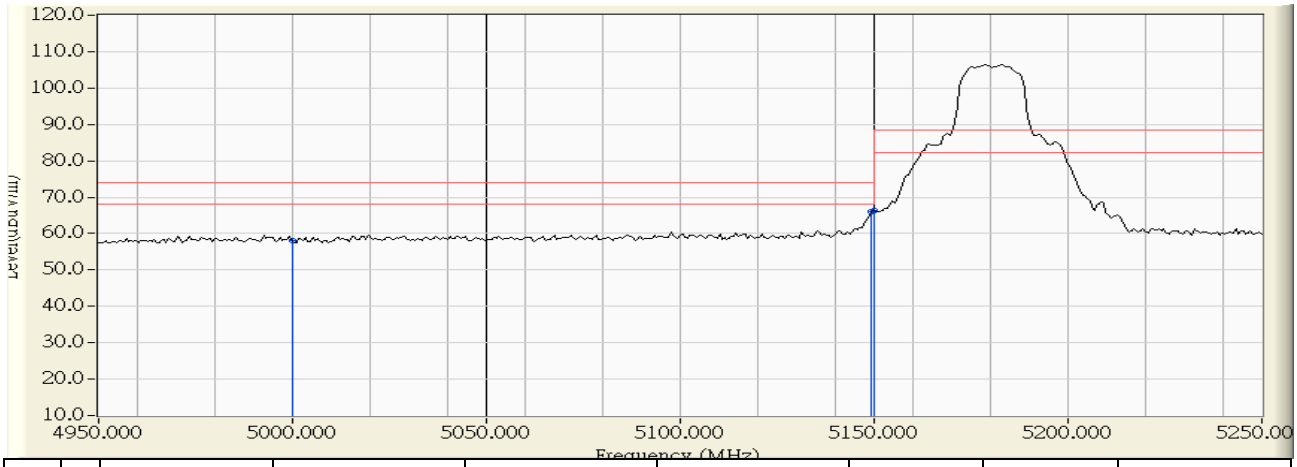


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	46.942	46.619	-7.381	54.000	AVERAGE
2		5149.800	0.830	51.382	52.211	-1.789	54.000	AVERAGE
3	*	5150.000	0.831	51.527	52.358	-1.642	54.000	AVERAGE

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 : 2012/07/24 - 10:17**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11a_CH36**

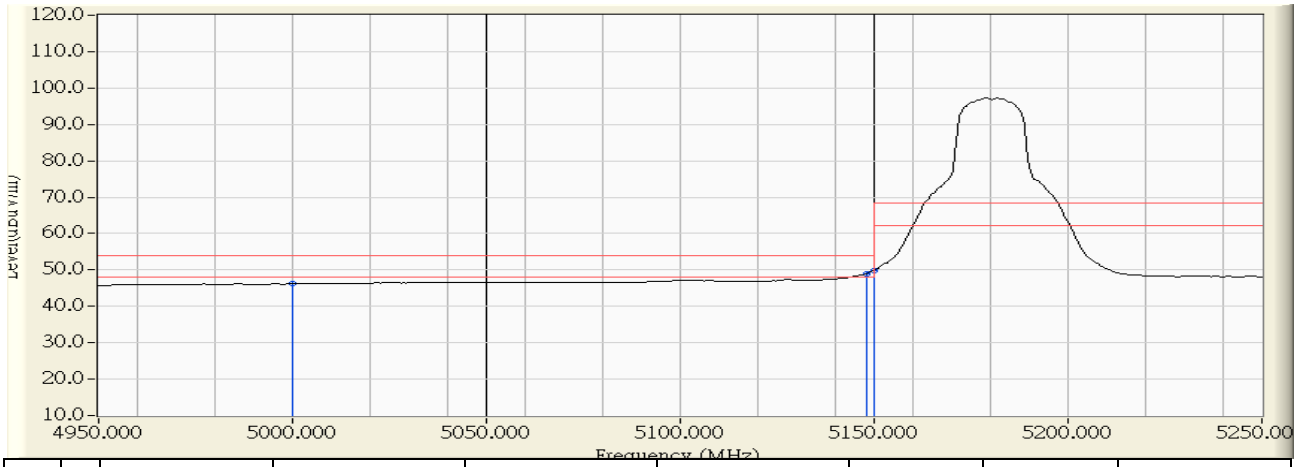


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	58.415	58.092	-15.908	74.000	PEAK
2		5149.200	0.824	65.117	65.941	-8.059	74.000	PEAK
3	*	5150.000	0.831	65.450	66.281	-7.719	74.000	PEAK

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 : 2012/07/24 - 10:17**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11a_CH36**

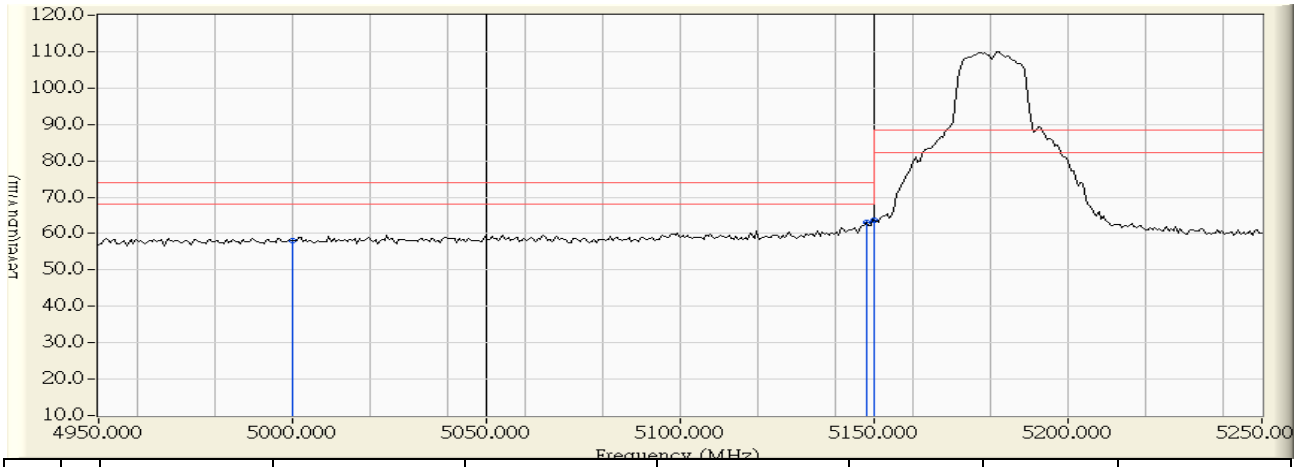


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	46.459	46.136	-7.864	54.000	AVERAGE
2		5148.000	0.815	48.156	48.971	-5.029	54.000	AVERAGE
3	*	5150.000	0.831	49.044	49.875	-4.125	54.000	AVERAGE

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 : 2012/07/24 - 10:17**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n 20MHz_CH36**

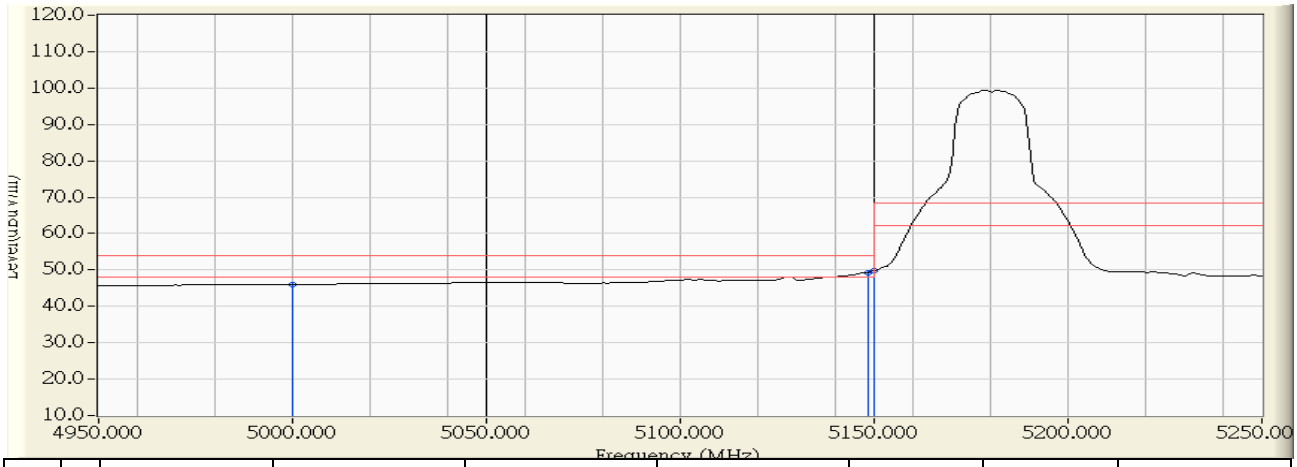


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	58.458	58.135	-15.865	74.000	PEAK
2		5148.000	0.815	62.225	63.040	-10.960	74.000	PEAK
3	*	5150.000	0.831	62.840	63.671	-10.329	74.000	PEAK

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 : 2012/07/24 - 10:18**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n 20MHz_CH36**

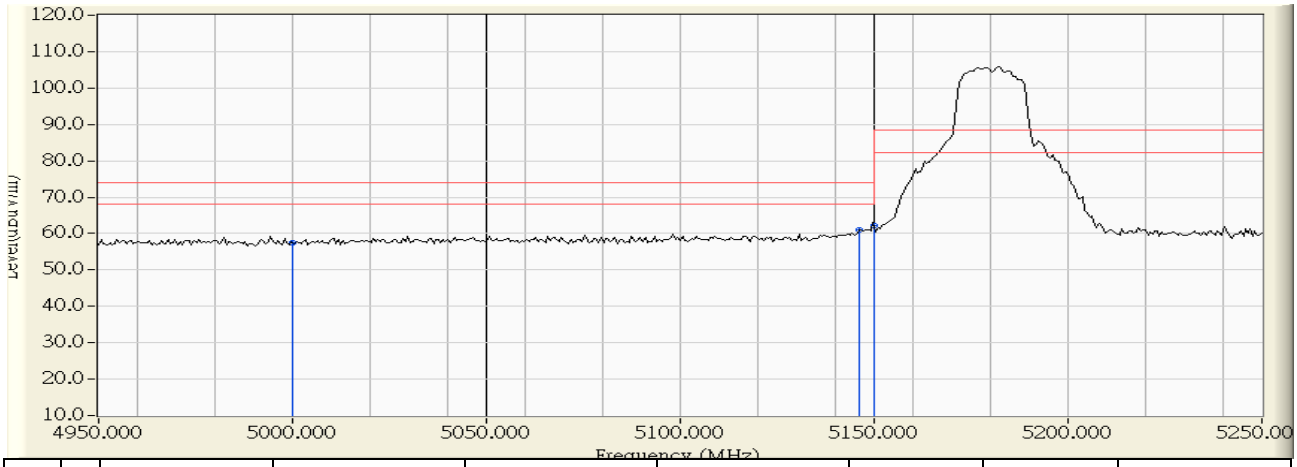


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	46.321	45.998	-8.002	54.000	AVERAGE
2		5148.600	0.820	48.497	49.317	-4.683	54.000	AVERAGE
3	*	5150.000	0.831	48.877	49.708	-4.292	54.000	AVERAGE

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 : 2012/07/24 - 10:18**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n 20MHz_CH36**

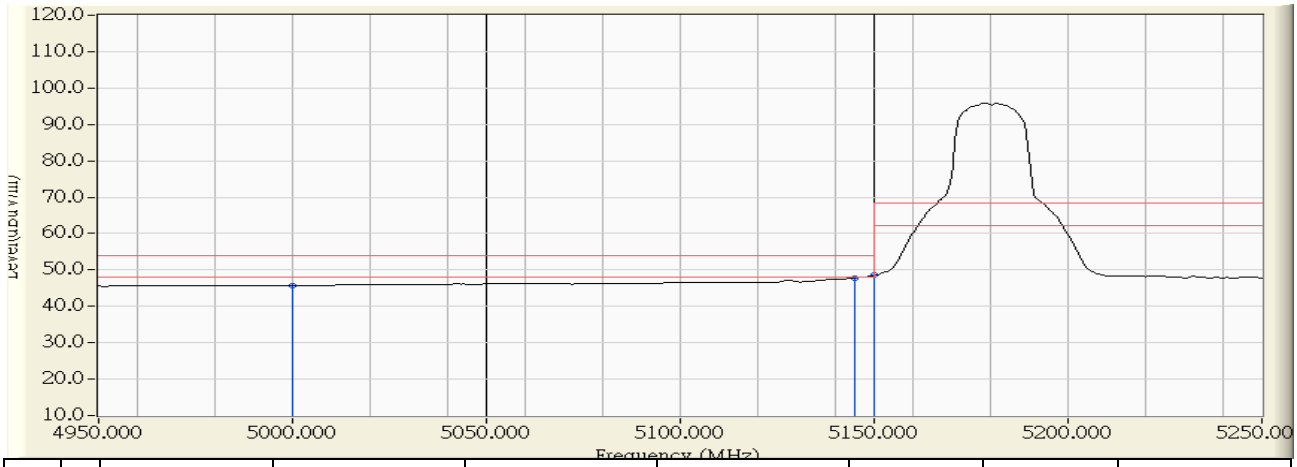


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	57.806	57.483	-16.517	74.000	PEAK
2		5146.200	0.801	60.155	60.956	-13.044	74.000	PEAK
3	*	5150.000	0.831	61.404	62.235	-11.765	74.000	PEAK

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 : 2012/07/24 - 10:18**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n 20MHz_CH36**

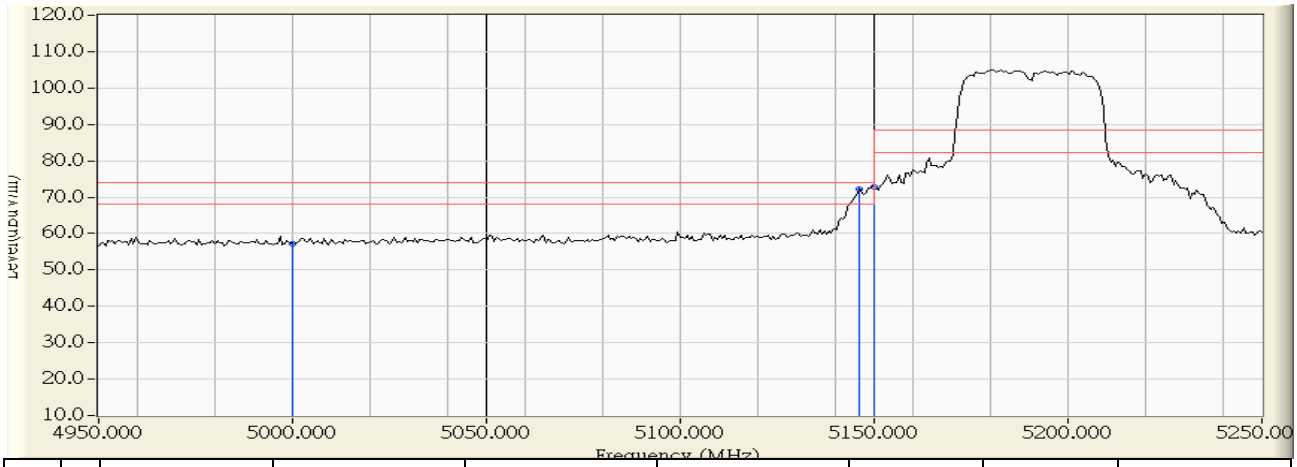


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	46.069	45.746	-8.254	54.000	AVERAGE
2		5145.000	0.792	47.048	47.840	-6.160	54.000	AVERAGE
3	*	5150.000	0.831	47.662	48.493	-5.507	54.000	AVERAGE

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 : 2012/07/24 - 10:34**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n 40MHz_CH38**

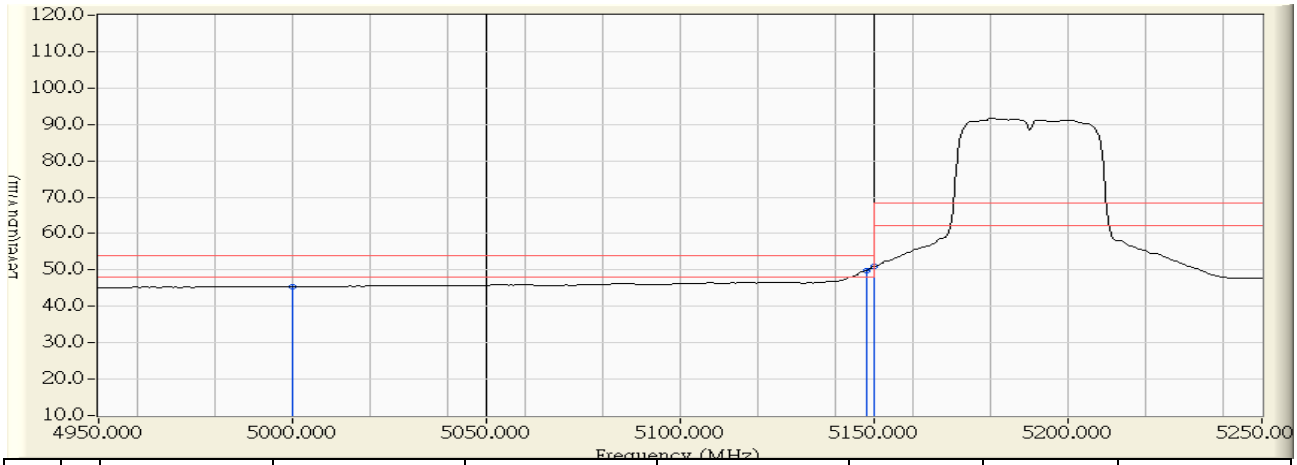


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	57.610	57.287	-16.713	74.000	PEAK
2		5146.200	0.801	71.426	72.227	-1.773	74.000	PEAK
3	*	5150.000	0.831	71.882	72.713	-1.287	74.000	PEAK

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 : 2012/07/24 - 10:45**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n 40MHz_CH38**

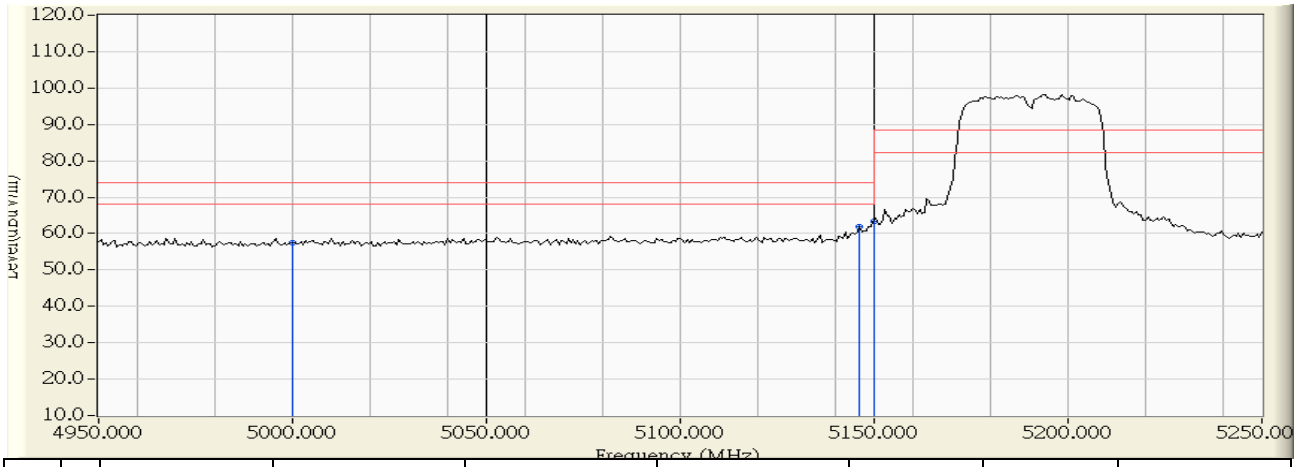


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	45.793	45.470	-8.530	54.000	AVERAGE
2		5148.000	0.815	49.041	49.856	-4.144	54.000	AVERAGE
3	*	5150.000	0.831	50.128	50.959	-3.041	54.000	AVERAGE

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 : 2012/07/24 - 10:50**
Limit : FCC_SpartE_15.407_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n 40MHz_CH38**

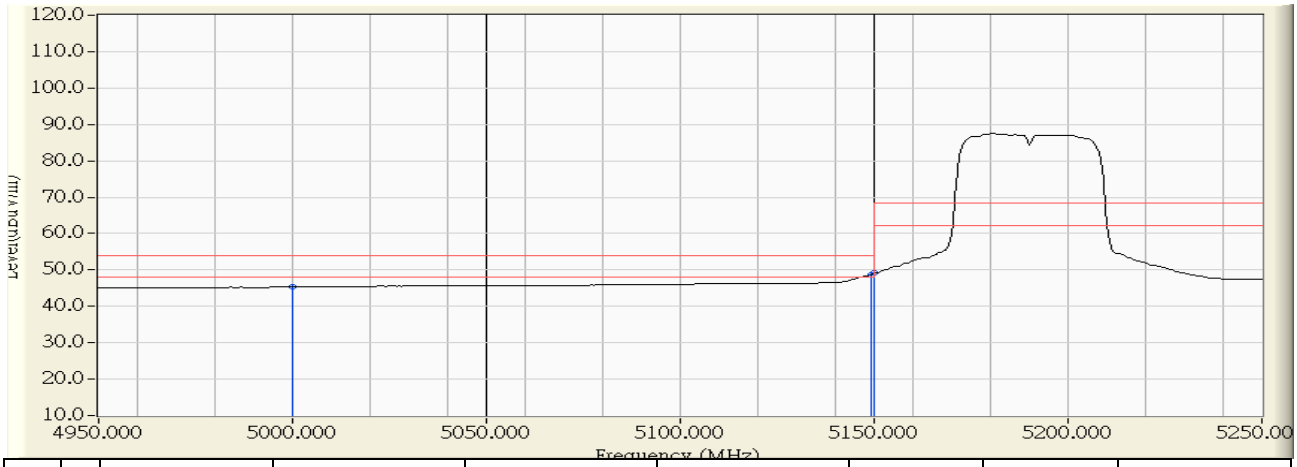


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	57.877	57.554	-16.446	74.000	PEAK
2		5146.200	0.801	61.007	61.808	-12.192	74.000	PEAK
3	*	5150.000	0.831	62.637	63.468	-10.532	74.000	PEAK

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 : 2012/07/24 - 10:52**
Limit : FCC_SpartE_15.407_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/ 60Hz**
EUT : 5G+2.4G 2T2R AP FMC	**Note : Mode 2: Transmit (Ant.: PCB)** **802.11n 40MHz_CH38**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		5000.000	-0.322	45.620	45.297	-8.703	54.000	AVERAGE
2		5149.200	0.824	47.943	48.767	-5.233	54.000	AVERAGE
3	*	5150.000	0.831	48.267	49.098	-4.902	54.000	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

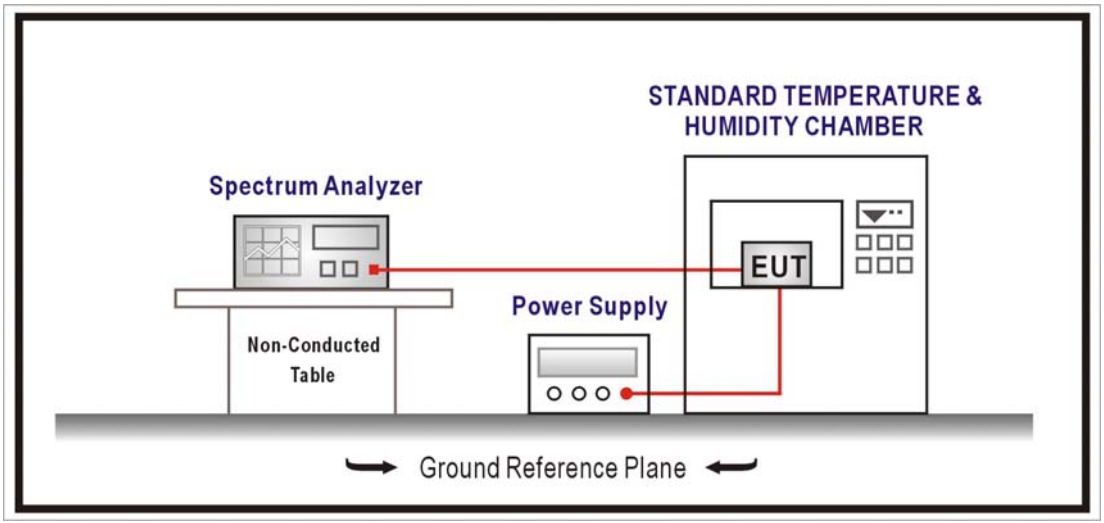
The following test equipments are used during the radiated emission tests:

Frequency Stability / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19
Standard Temperature & Humidity Chamber	WIT	TH-1S-B	1082101	2013/01/29

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

9.2. Test Setup



9.3. Limits

Manufactures of all 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 March 2012 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	5G+2.4G 2T2R AP FMC		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit - 802.11a - 5180MHz		
Date of Test	2012/07/26	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.0507	9.7876	Pass
-10		5180.8658	167.1493	Pass
0		5180.6036	116.5223	Pass
10		5180.1356	26.1801	Pass
20		5180.7640	147.4837	Pass
30		5180.8624	166.4786	Pass
40		5180.8177	157.8595	Pass
50		5180.0534	10.3072	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.3786	73.0976	Pass
	120	5180.1745	33.6944	Pass
	138	5180.2666	51.4718	Pass

Product	5G+2.4G 2T2R AP FMC		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit - 802.11a - 5220MHz		
Date of Test	2012/07/26	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5220.4366	83.6311	Pass
-10		5220.6283	120.3731	Pass
0		5220.7465	143.0080	Pass
10		5220.7234	138.5838	Pass
20		5220.1711	32.7803	Pass
30		5220.7401	141.7887	Pass
40		5220.1095	20.9828	Pass
50		5220.6537	125.2372	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5220.2214	42.4047	Pass
	120	5220.2235	42.8069	Pass
	138	5220.2476	47.4260	Pass

Product	5G+2.4G 2T2R AP FMC		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit - 802.11a - 5240MHz		
Date of Test	2012/07/26	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.0952	18.1708	Pass
-10		5240.5642	107.6727	Pass
0		5240.5863	111.8932	Pass
10		5240.0348	6.6472	Pass
20		5240.8323	158.8413	Pass
30		5240.0134	2.5547	Pass
40		5240.0708	13.5207	Pass
50		5240.5192	99.0856	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.6544	124.8873	Pass
	120	5240.0933	17.8043	Pass
	138	5240.8223	156.9360	Pass

Product	5G+2.4G 2T2R AP FMC		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit - 802.11n_20M - 5180MHz(ANT 0)		
Date of Test	2012/07/26	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.0239	4.6224	Pass
-10		5180.3632	70.1254	Pass
0		5180.3219	62.1346	Pass
10		5180.8732	168.5665	Pass
20		5180.6933	133.8483	Pass
30		5180.7540	145.5525	Pass
40		5180.6462	124.7444	Pass
50		5180.5375	103.7583	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.2364	45.6427	Pass
	120	5180.7616	147.0306	Pass
	138	5180.0916	17.6779	Pass

Product	5G+2.4G 2T2R AP FMC		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit - 802.11n_20M - 5220MHz(ANT 0)		
Date of Test	2012/07/26	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5220.3694	70.7757	Pass
-10		5220.0974	18.6621	Pass
0		5220.0029	0.5637	Pass
10		5220.7237	138.6459	Pass
20		5220.1630	31.2338	Pass
30		5220.8364	160.2228	Pass
40		5220.4666	89.3959	Pass
50		5220.5999	114.9215	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5220.4090	78.3580	Pass
	120	5220.4738	90.7668	Pass
	138	5220.3290	63.0279	Pass

Product	5G+2.4G 2T2R AP FMC		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit - 802.11n_20M - 5240MHz(ANT 0)		
Date of Test	2012/07/26	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.0231	4.4114	Pass
-10		5240.6955	132.7350	Pass
0		5240.2829	53.9949	Pass
10		5240.2912	55.5681	Pass
20		5240.6466	123.3961	Pass
30		5240.3369	64.2955	Pass
40		5240.5023	95.8594	Pass
50		5240.2876	54.8888	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.3880	74.0427	Pass
	120	5240.7911	150.9694	Pass
	138	5240.4051	77.3042	Pass

Product	5G+2.4G 2T2R AP FMC		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit - 802.11n_20M - 5180MHz(ANT 1)		
Date of Test	2012/07/26	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5180.6810	131.4707	Pass
-10		5180.6578	126.9946	Pass
0		5180.4885	94.3034	Pass
10		5180.0678	13.0984	Pass
20		5180.8410	162.3477	Pass
30		5180.4510	87.0574	Pass
40		5180.7852	151.5845	Pass
50		5180.8396	162.0893	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5180.3018	58.2540	Pass
	120	5180.2834	54.7145	Pass
	138	5180.2927	56.5100	Pass

Product	5G+2.4G 2T2R AP FMC		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit - 802.11n_20M - 5220MHz(ANT 1)		
Date of Test	2012/07/26	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5220.0302	5.7935	Pass
-10		5220.6685	128.0655	Pass
0		5220.5699	109.1674	Pass
10		5220.0596	11.4194	Pass
20		5220.0887	16.9844	Pass
30		5220.6761	129.5209	Pass
40		5220.3781	72.4235	Pass
50		5220.8281	158.6423	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5220.2038	39.0398	Pass
	120	5220.0088	1.6864	Pass
	138	5220.6327	121.2109	Pass

Product	5G+2.4G 2T2R AP FMC		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit - 802.11n_20M - 5240MHz(ANT 1)		
Date of Test	2012/07/26	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5240.0300	5.7210	Pass
-10		5240.2824	53.8893	Pass
0		5240.5233	99.8569	Pass
10		5240.3499	66.7814	Pass
20		5240.8434	160.9605	Pass
30		5240.1311	25.0199	Pass
40		5240.1379	26.3260	Pass
50		5240.2038	38.8918	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5240.6872	131.1494	Pass
	120	5240.6820	130.1595	Pass
	138	5240.8626	164.6137	Pass

Product	5G+2.4G 2T2R AP FMC		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit - 802.11n_40M - 5190MHz(ANT 0)		
Date of Test	2012/07/26	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5190.5106	98.3726	Pass
-10		5190.1358	26.1611	Pass
0		5190.0450	8.6631	Pass
10		5190.1616	31.1374	Pass
20		5190.6860	132.1816	Pass
30		5190.5929	114.2408	Pass
40		5190.3224	62.1238	Pass
50		5190.0897	17.2849	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5190.2589	49.8934	Pass
	120	5190.8483	163.4573	Pass
	138	5190.1832	35.2918	Pass

Product	5G+2.4G 2T2R AP FMC		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit - 802.11n_40M - 5230MHz(ANT 0)		
Date of Test	2012/07/26	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5230.6263	119.7452	Pass
-10		5230.4025	76.9656	Pass
0		5230.4799	91.7560	Pass
10		5230.2182	41.7213	Pass
20		5230.5670	108.4043	Pass
30		5230.2951	56.4331	Pass
40		5230.7077	135.3232	Pass
50		5230.0779	14.9018	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5230.3220	61.5702	Pass
	120	5230.8586	164.1624	Pass
	138	5230.2133	40.7841	Pass

Product	5G+2.4G 2T2R AP FMC		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit - 802.11n_40M - 5190MHz(ANT 1)		
Date of Test	2012/07/26	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5190.2257	43.4915	Pass
-10		5190.6342	122.2013	Pass
0		5190.6693	128.9578	Pass
10		5190.4637	89.3536	Pass
20		5190.8802	169.5920	Pass
30		5190.8920	171.8599	Pass
40		5190.0448	8.6391	Pass
50		5190.8190	157.8061	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5190.1112	21.4252	Pass
	120	5190.4350	83.8135	Pass
	138	5190.4107	79.1235	Pass

Product	5G+2.4G 2T2R AP FMC		
Test Item	Frequency Stability		
Test Mode	Mode 1: Transmit - 802.11n_40M - 5230MHz(ANT 1)		
Date of Test	2012/07/25	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5230.3284	62.7918	Pass
-10		5230.0094	1.7930	Pass
0		5230.4964	94.9089	Pass
10		5230.3817	72.9843	Pass
20		5230.8765	167.5869	Pass
30		5230.4927	94.2120	Pass
40		5230.7200	137.6673	Pass
50		5230.7114	136.0221	Pass

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5230.5479	104.7603	Pass
	120	5230.5388	103.0260	Pass
	138	5230.5562	106.3421	Pass