



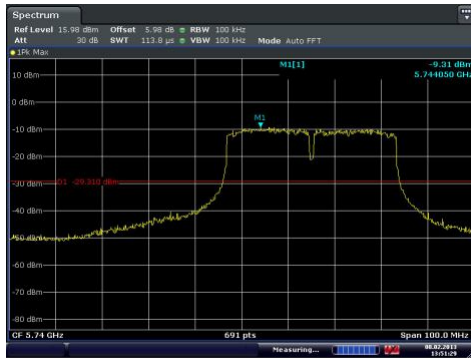
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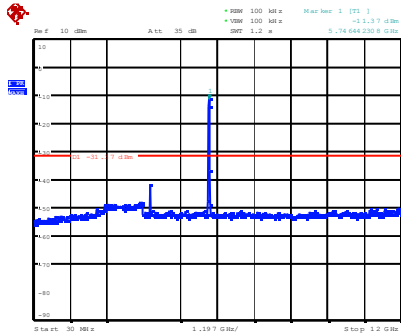
386-1, Ho-dong, Cheoin-gu, Yongin-si, Gyeonggi-do, 449-100, Korea

Tel: +82-31-339-9970 Fax: +82-31-339-9855

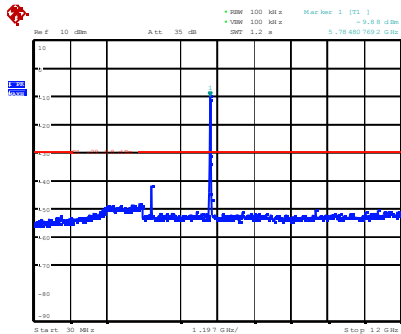
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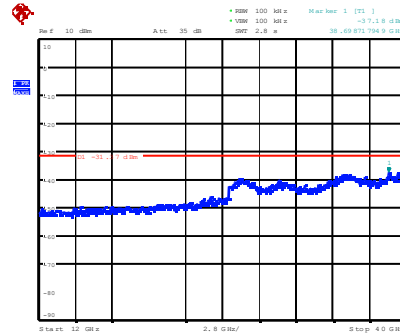
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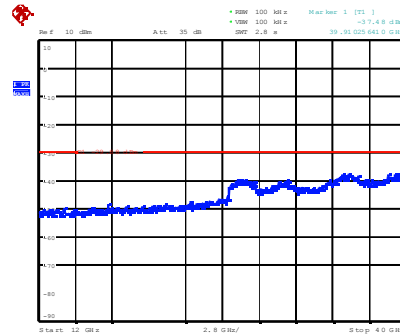
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Date: 11.FEB.2013 05:56:18



Date: 11.FEB.2013 05:56:13

Ant_M1 (5GHz) : 802.11a HT40



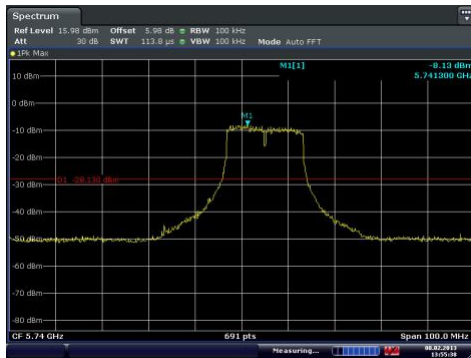
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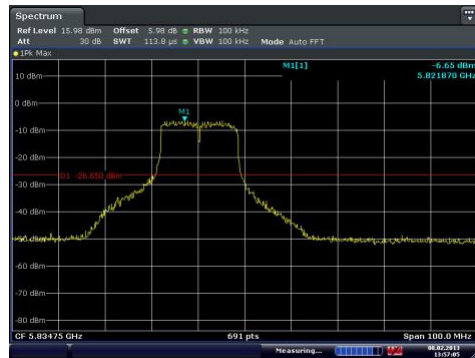
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Tel: +82-31-339-9970 Fax: +82-31-339-9855

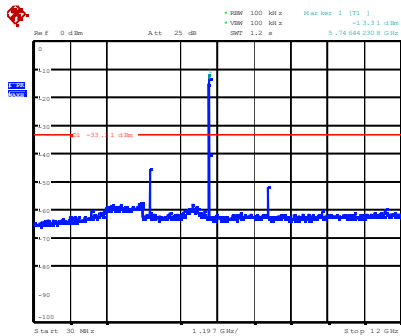
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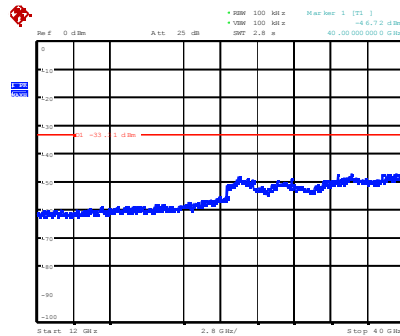
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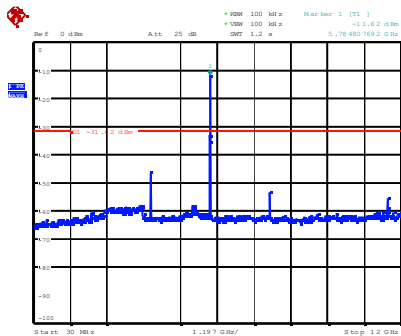
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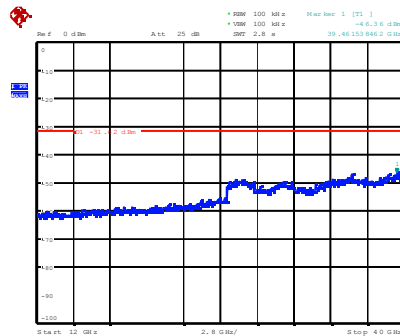
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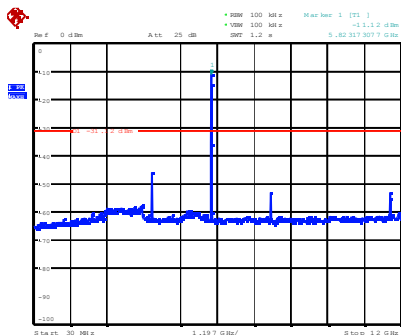
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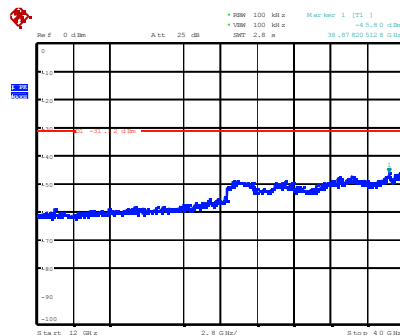
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Date: 11.FEB.2013 06:42:43



Date: 11.FEB.2013 06:44:03



Date: 11.FEB.2013 06:45:27

Ant_M2 (5GHz) : 802.11a



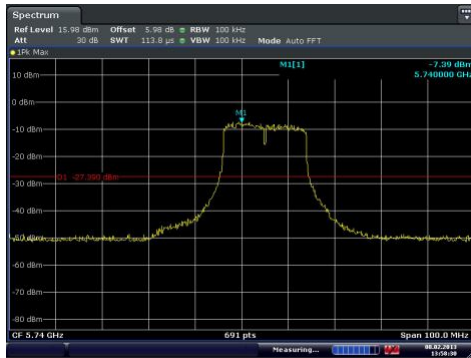
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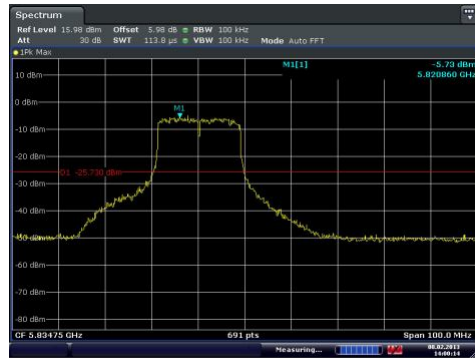
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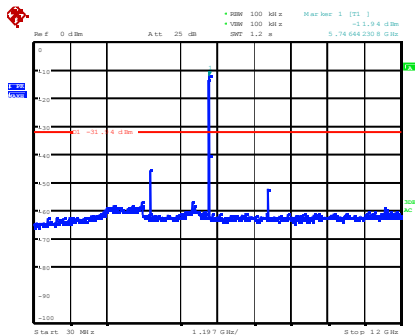
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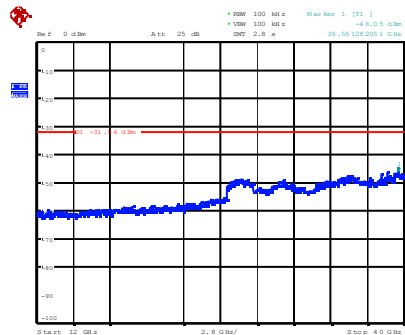
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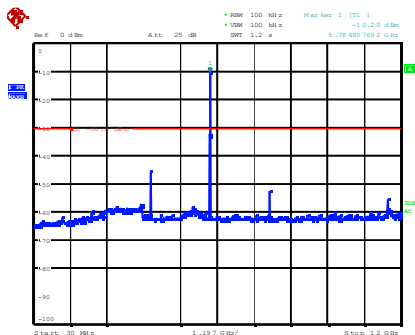
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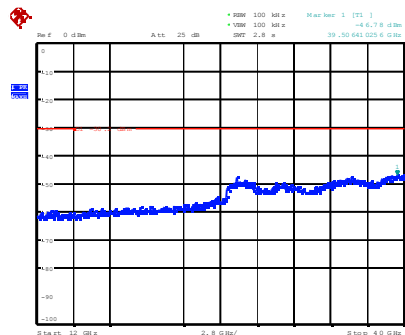
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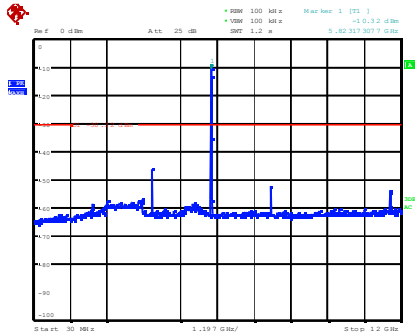
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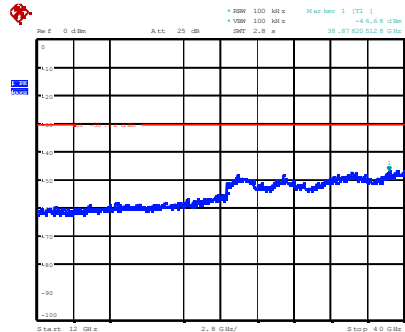
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Ant_M2 (5GHz) : 802.11a HT20



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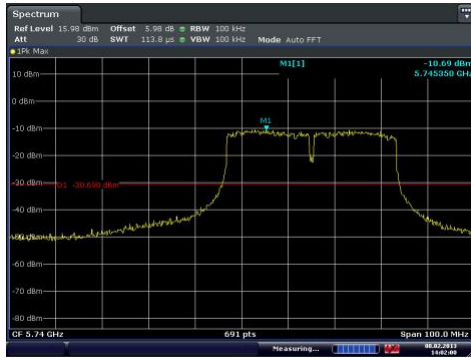
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Fax: +82-31-339-9855

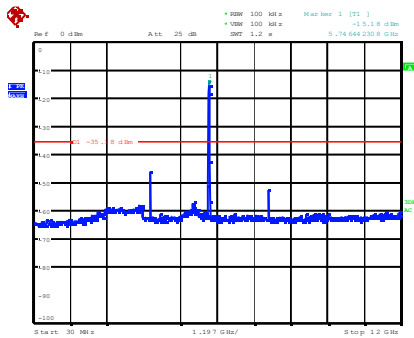
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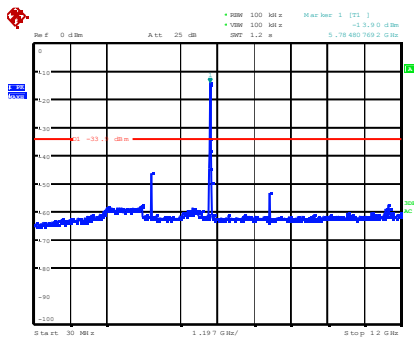
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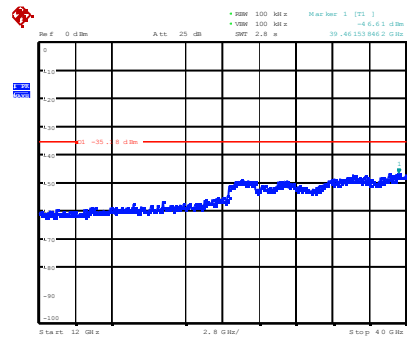
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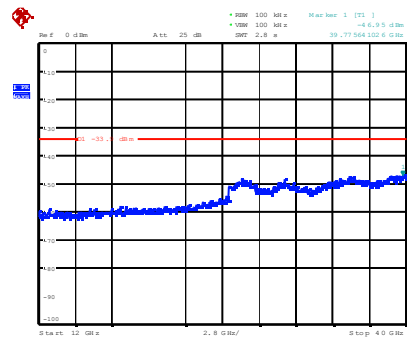
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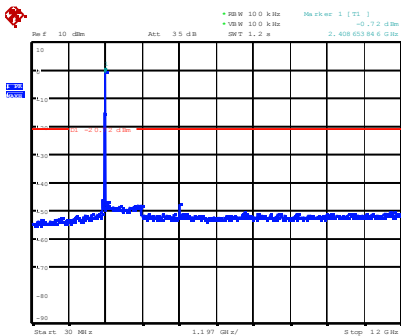
Ant_M2 (5GHz) : 802.11a HT40



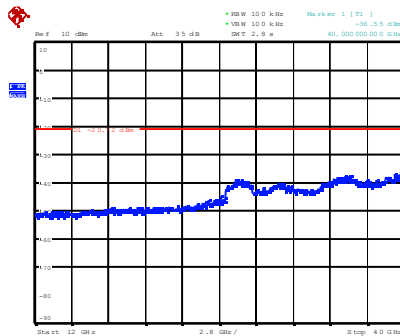
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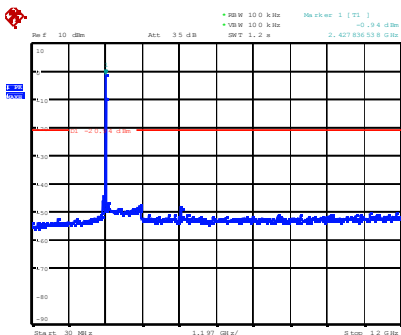
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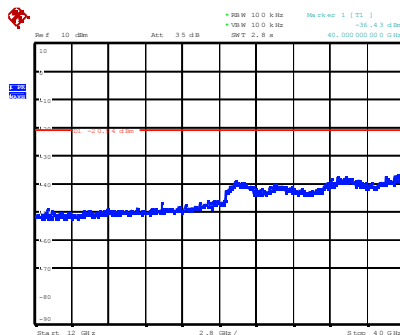
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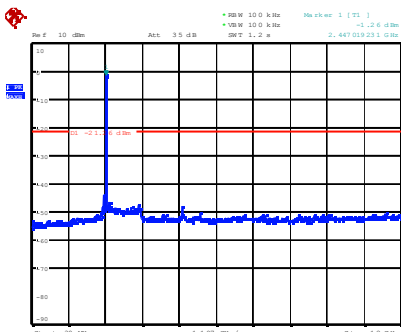
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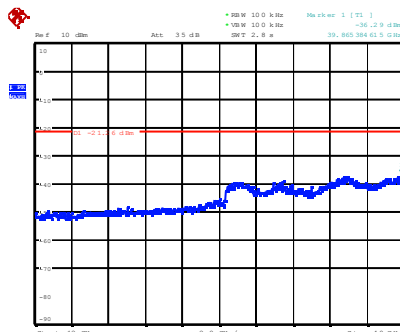
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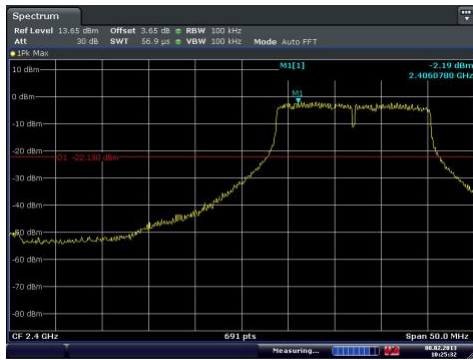


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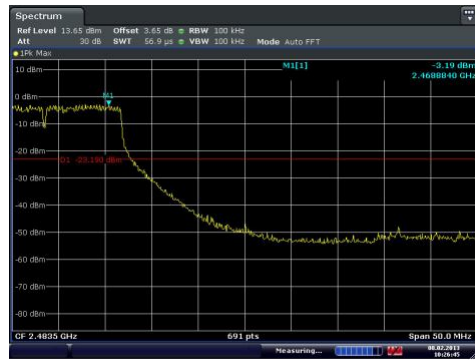


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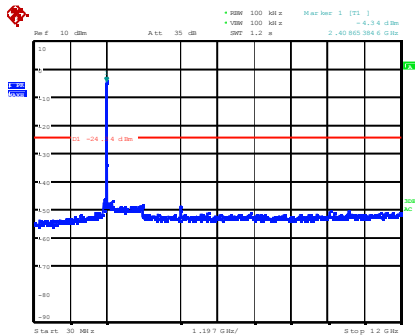
Ant_A5 (2.4GHz) : 802.11b



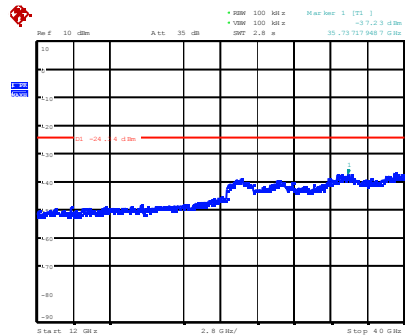
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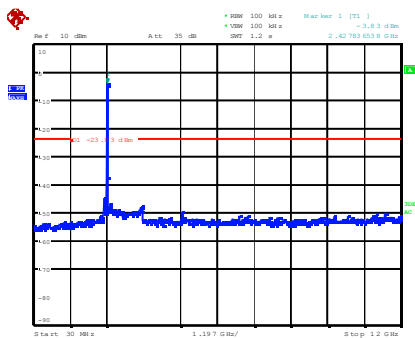
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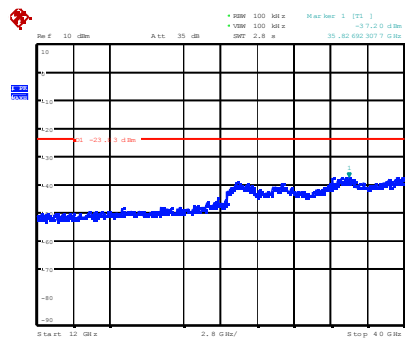
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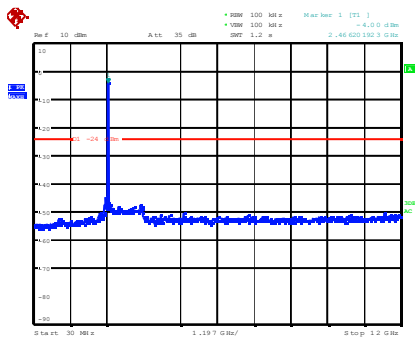
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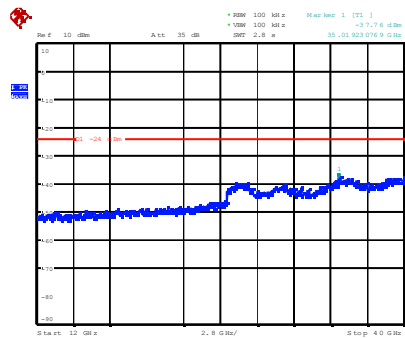
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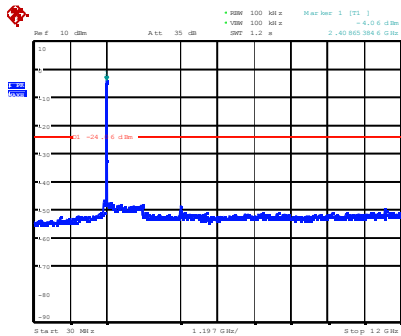
Ant_A5 (2.4GHz) : 802.11g



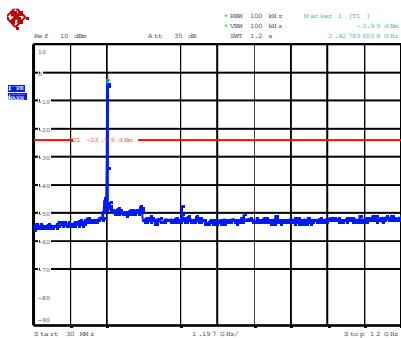
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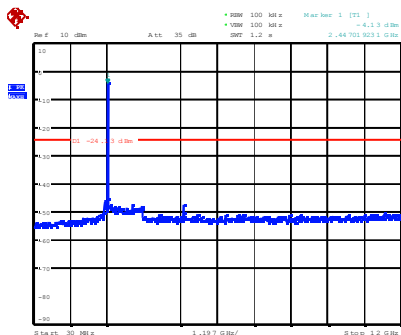
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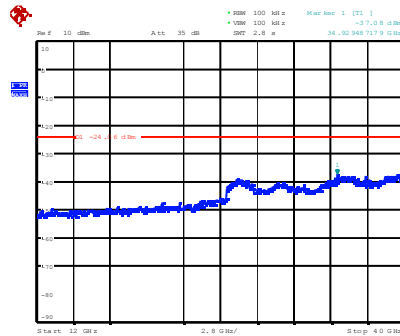
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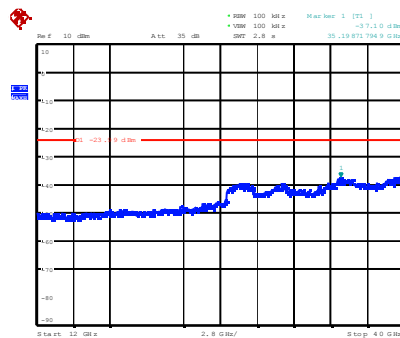
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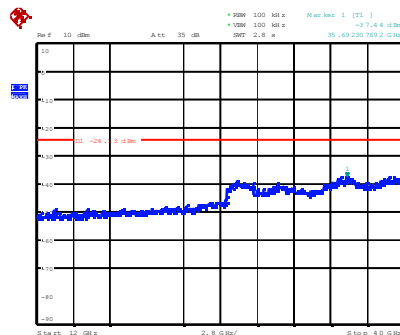
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Date: 9.FEB.2013 0:23:23



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Ant_A5 (2.4GHz) : 802.11n HT20



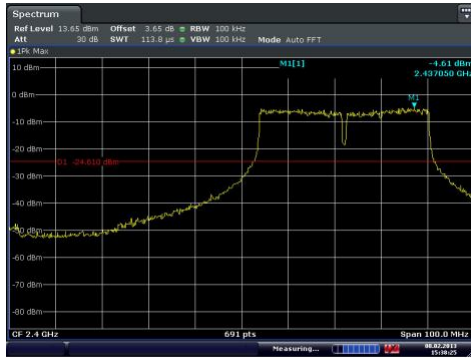
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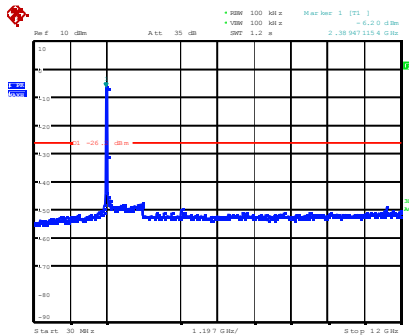
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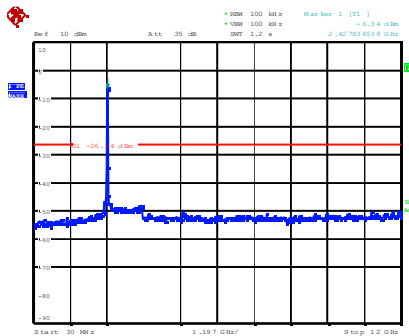
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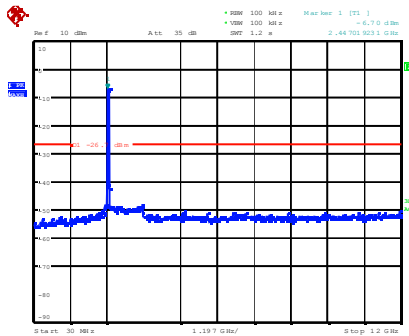
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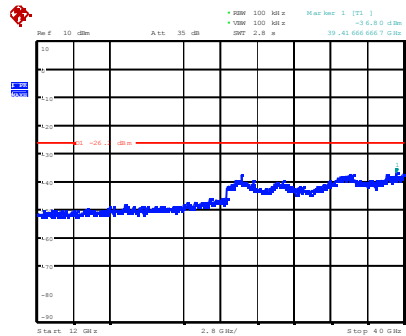
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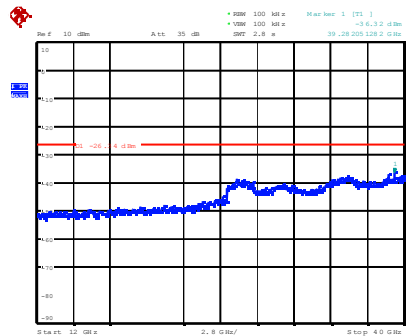
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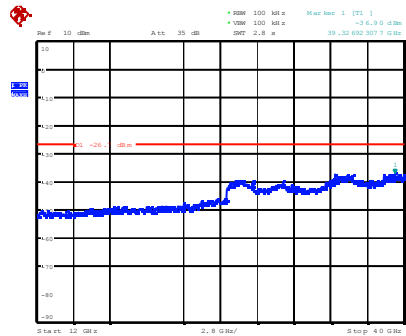
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Ant_A5 (2.4GHz) : 802.11n HT40



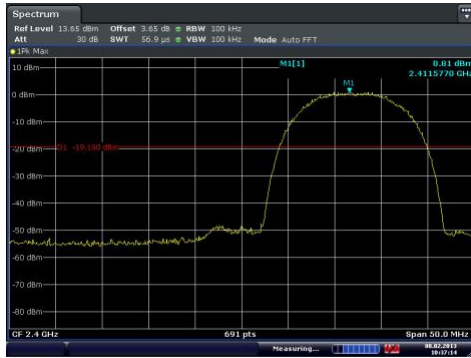
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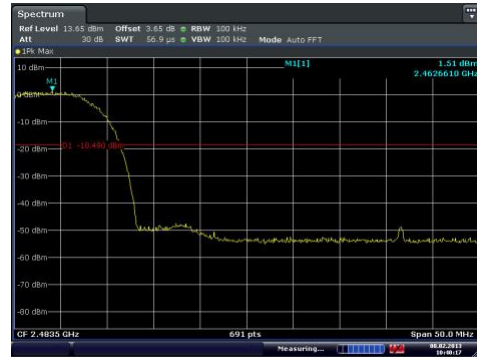
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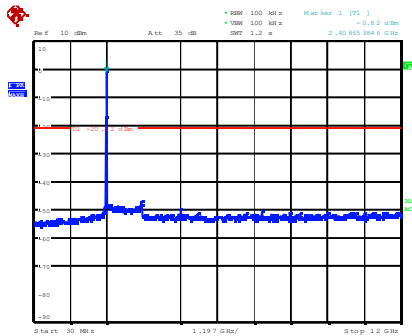
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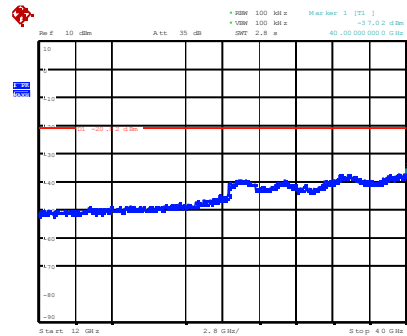
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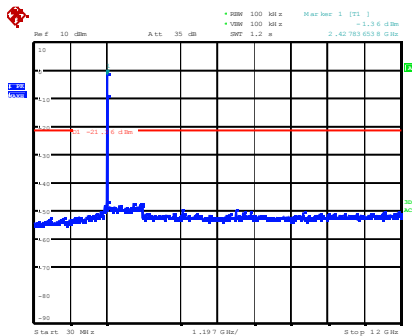
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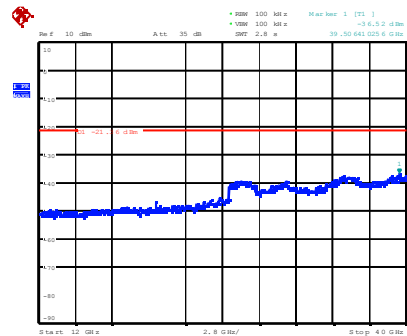
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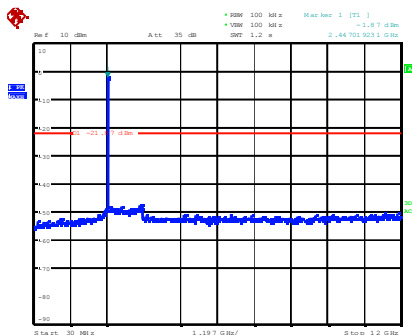
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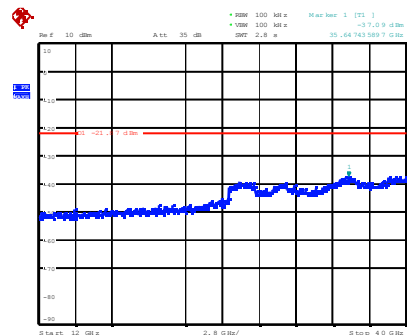
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Ant_A7 (2.4GHz) : 802.11b



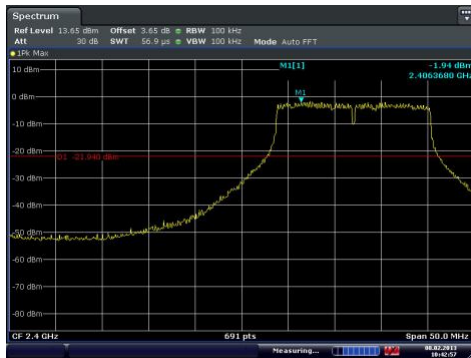
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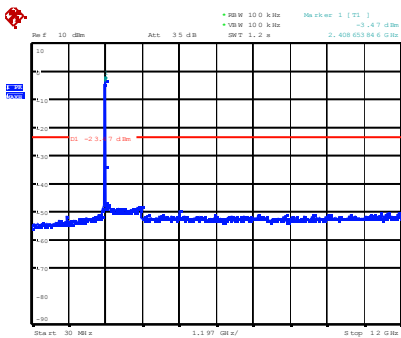
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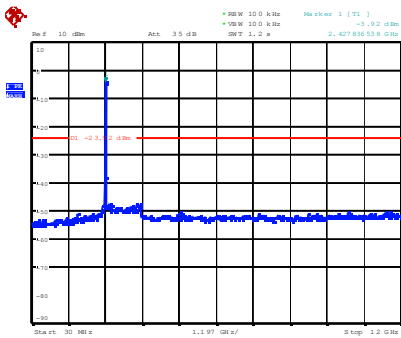
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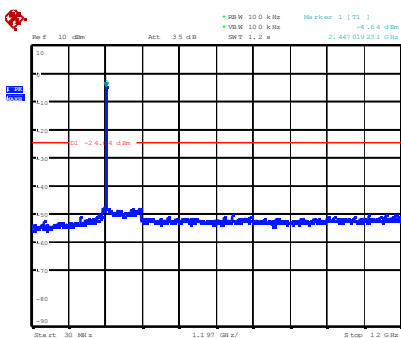
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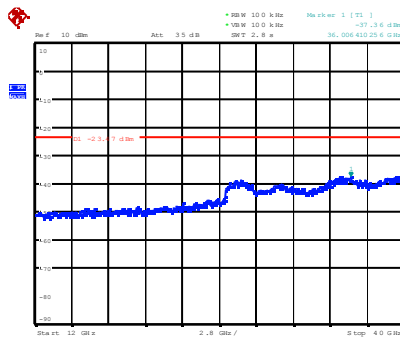
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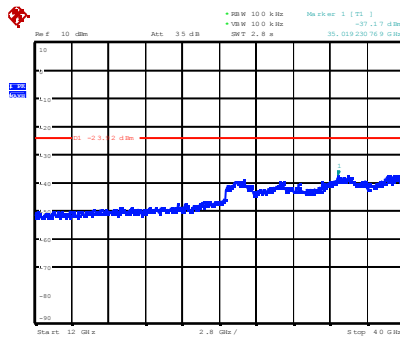
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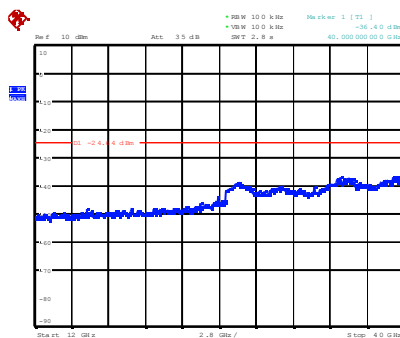
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Date: 9.FEB.2013 03:49:20



Date: 9.FEB.2013 03:55:17



Date: 9.FEB.2013 04:00:24

Ant_A7 (2.4GHz) : 802.11g



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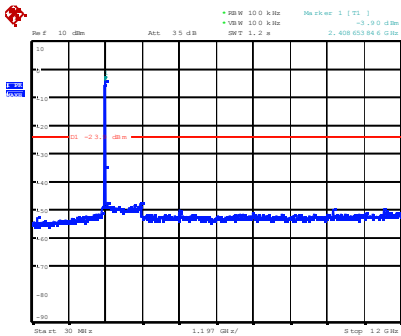
www.e-ctk.com



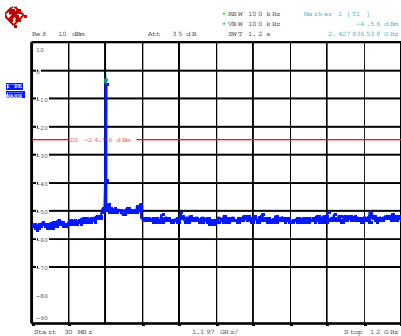
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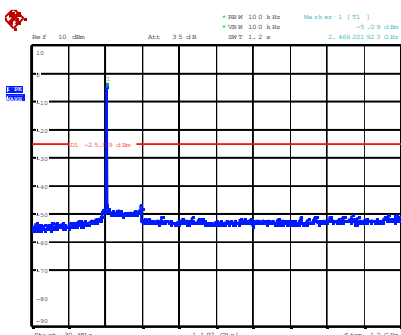
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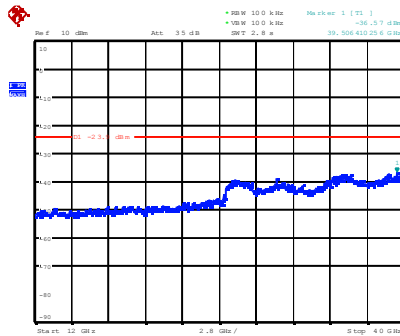
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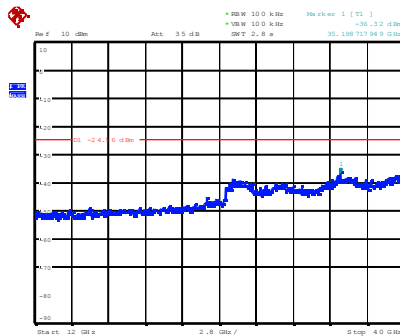
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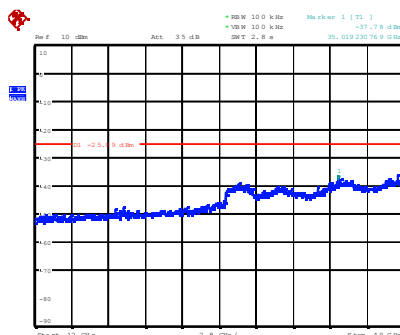
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Date: 9.FEB.2013 04:10:47



Date: 9.FEB.2013 04:13:18

Ant_A7 (2.4GHz) : 802.11n HT20



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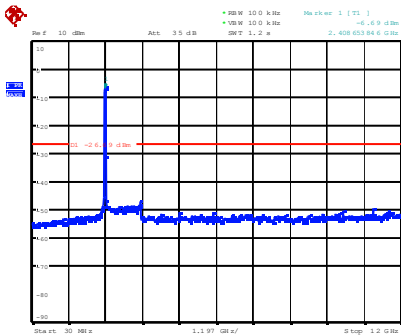
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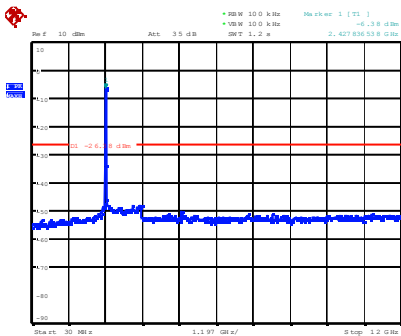
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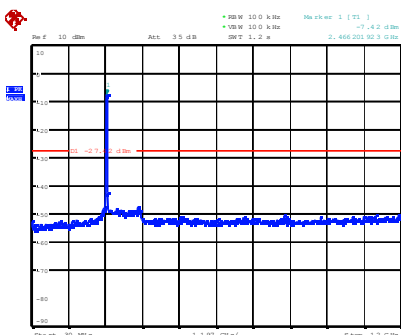
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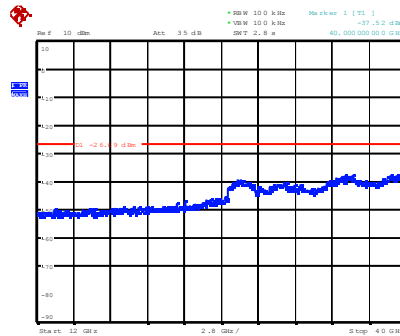
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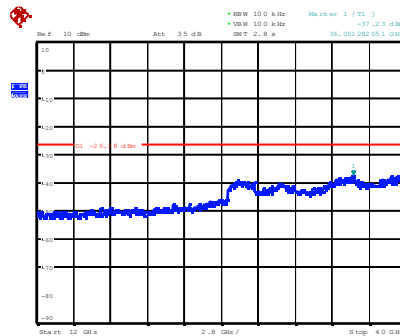
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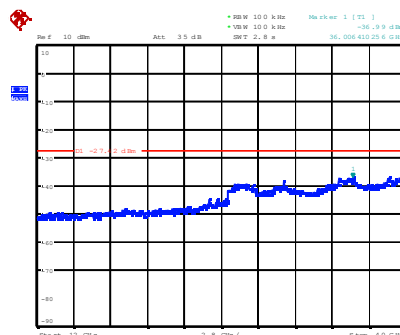
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Date: 9.FEB.2013 04:22:10

Ant_A7 (2.4GHz) : 802.11n HT40



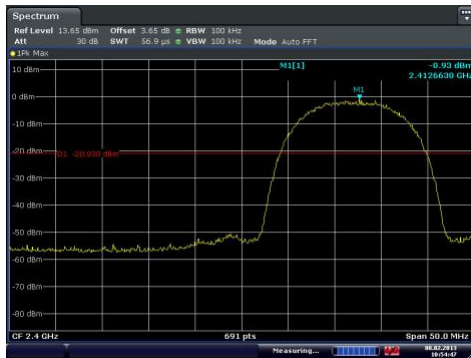
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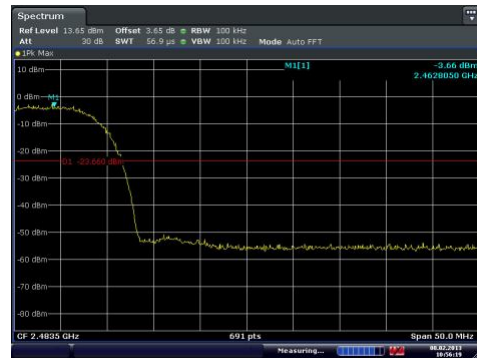
386-1, Ho-dong, Cheoin-gu, Yongin-si, Gyeonggi-do, 449-100, Korea

Tel: +82-31-339-9970 Fax: +82-31-339-9855

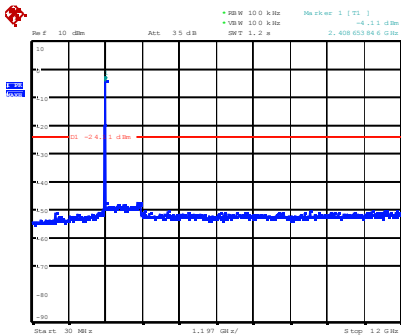
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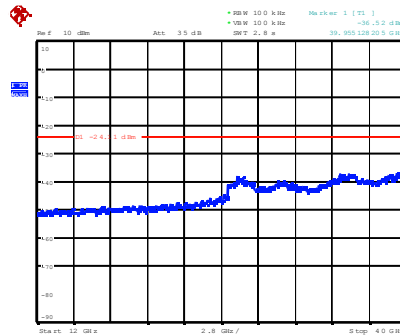
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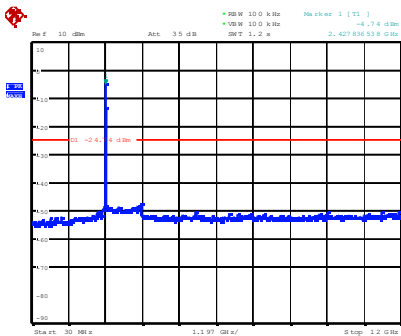
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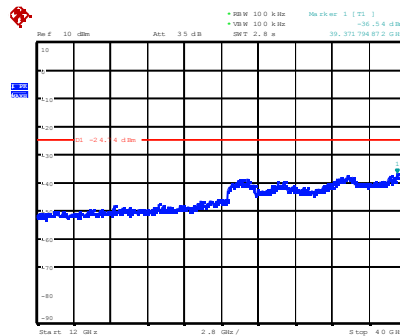
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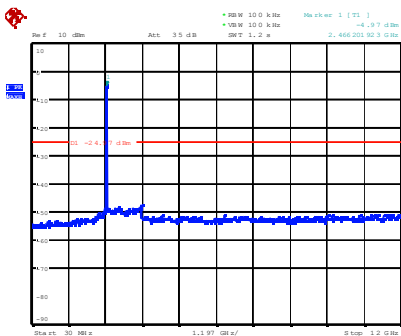
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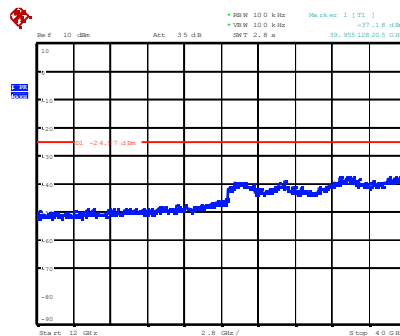
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Date: 9.FEB.2013 06:29:18



Date: 9.FEB.2013 06:30:40

Ant_M1 (2.4GHz) : 802.11b



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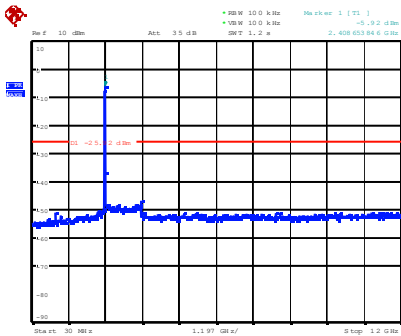
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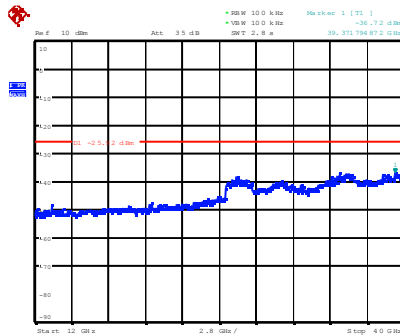
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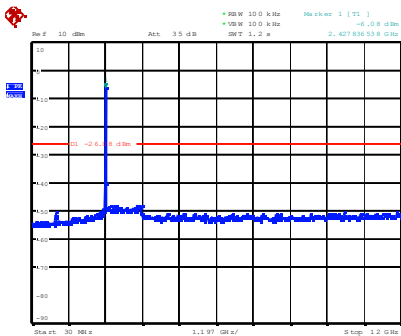
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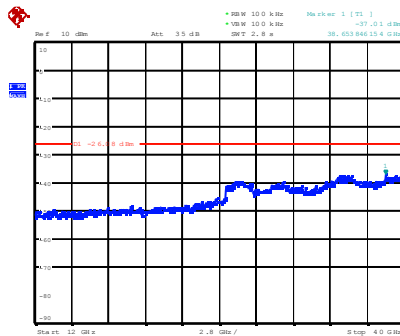
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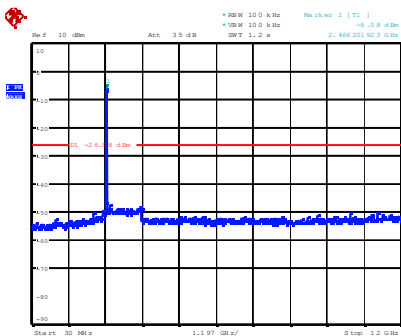
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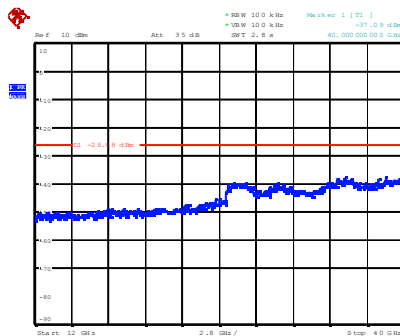
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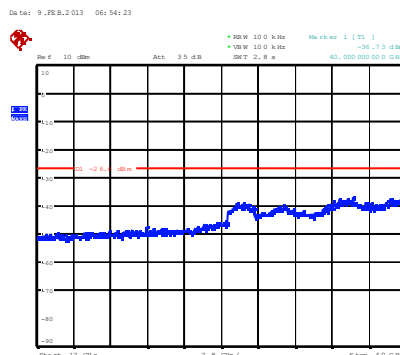
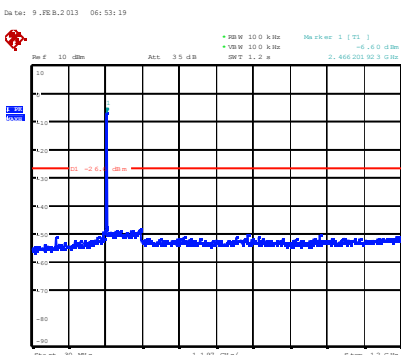
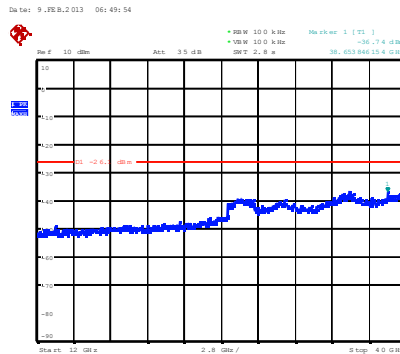
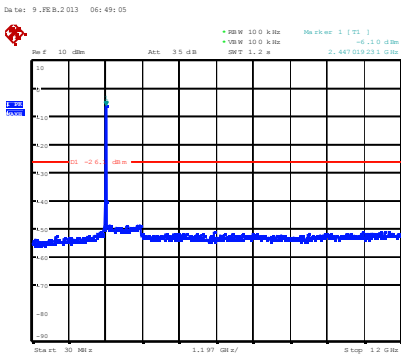
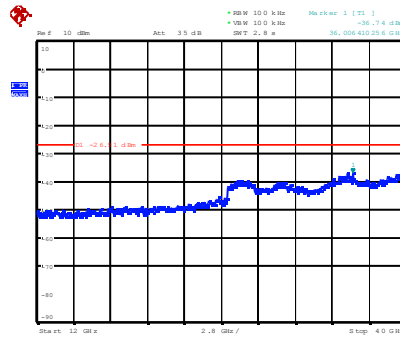
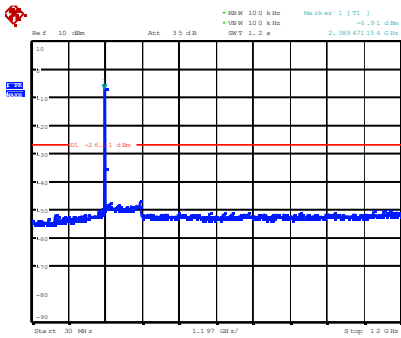
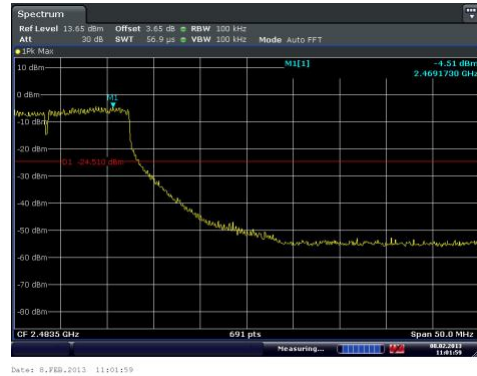


Date: 9.FEB.2013 06:43:13



Date: 9.FEB.2013 06:44:00

Ant_M1 (2.4GHz) : 802.11g



Date: 9.FEB.2013 06:55:33

Date: 9.FEB.2013 06:57:01

Ant_M1 (2.4GHz) : 802.11n HT20



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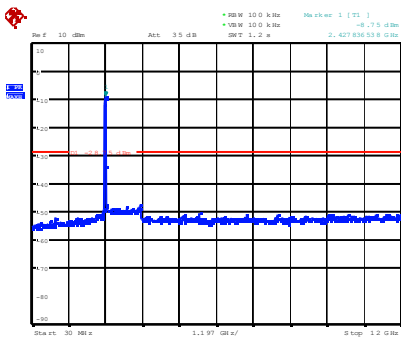
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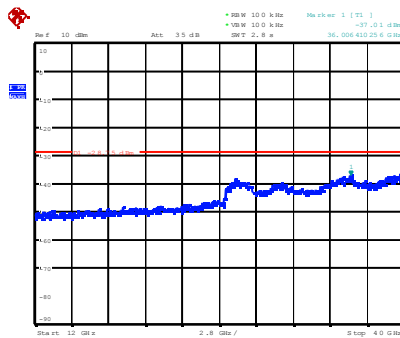
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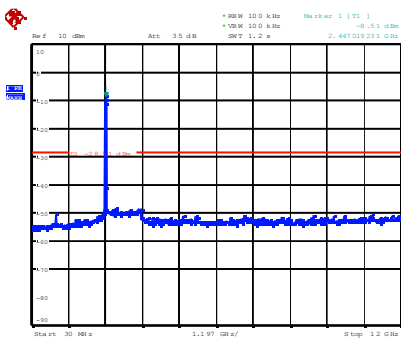
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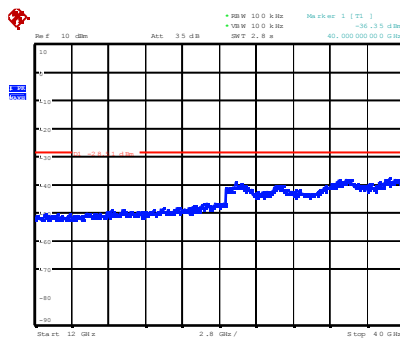
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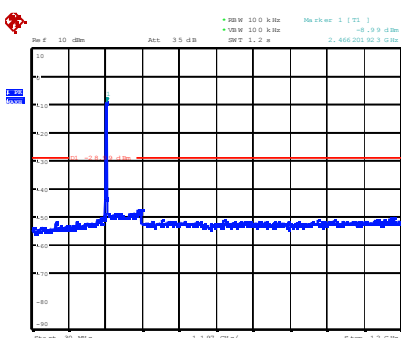
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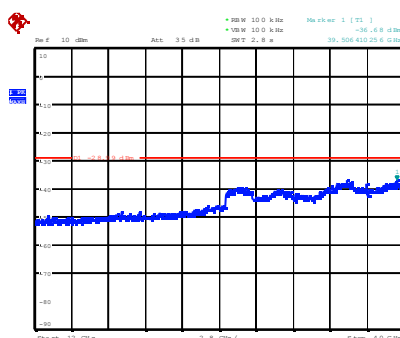
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Date: 9.FEB.2013 07:01:37



Date: 9.FEB.2013 07:03:39



Date: 9.FEB.2013 07:04:31

Ant_M1 (2.4GHz) : 802.11n HT40



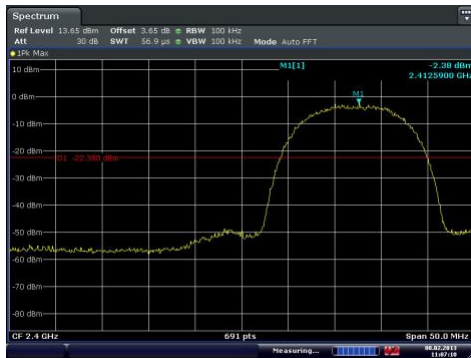
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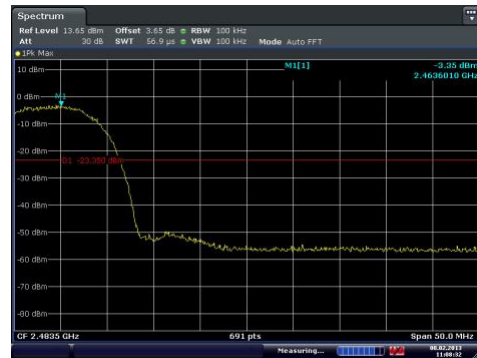
386-1, Ho-dong, Cheoin-gu, Yongin-si, Gyeonggi-do, 449-100, Korea

Tel: +82-31-339-9970 Fax: +82-31-339-9855

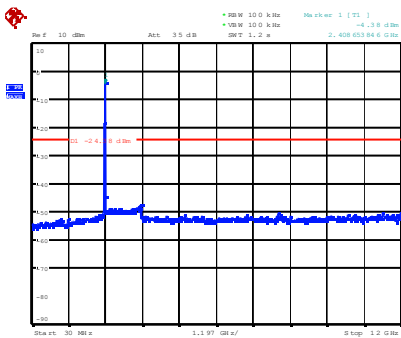
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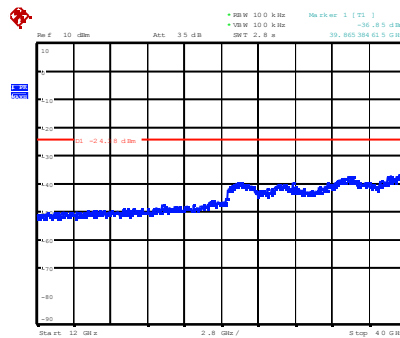
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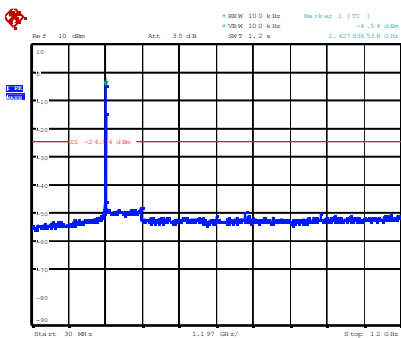
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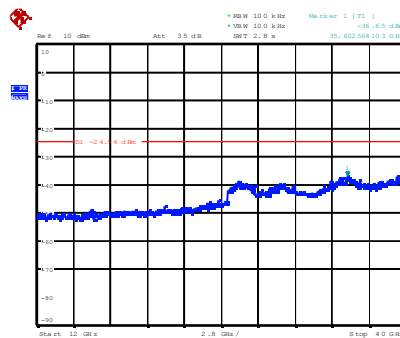
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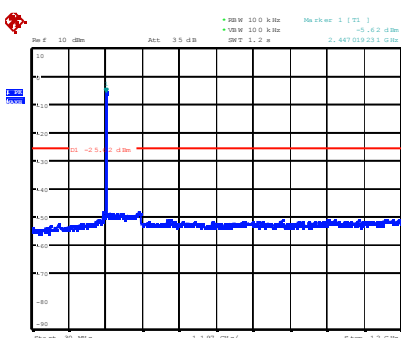
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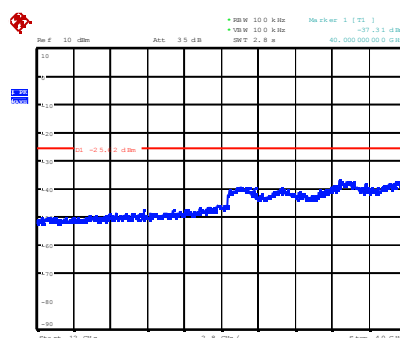
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Date: 9.FEB.2013 07:31:59

Ant_M2 (2.4GHz) : 802.11b



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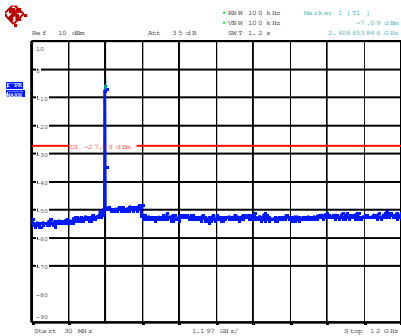
www.e-ctk.com



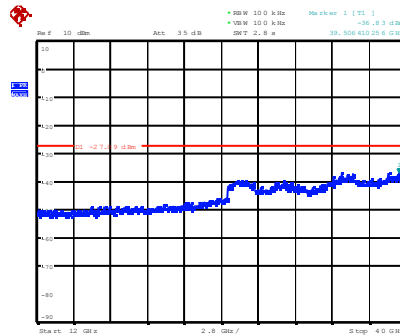
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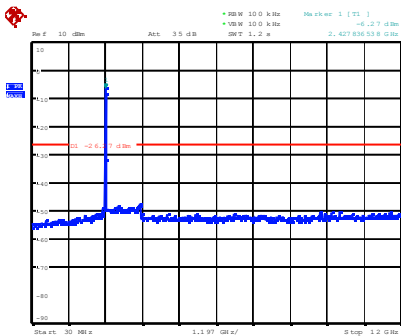
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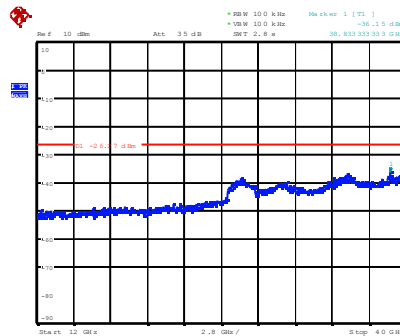
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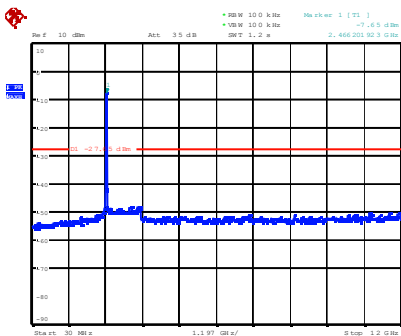
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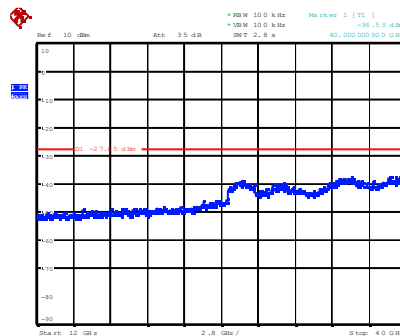
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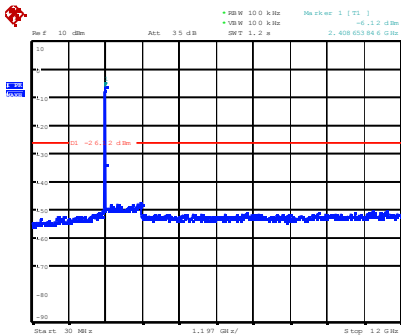
Ant_M2 (2.4GHz) : 802.11g



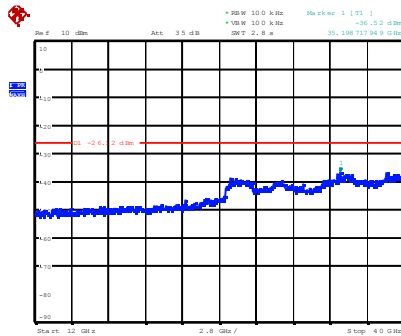
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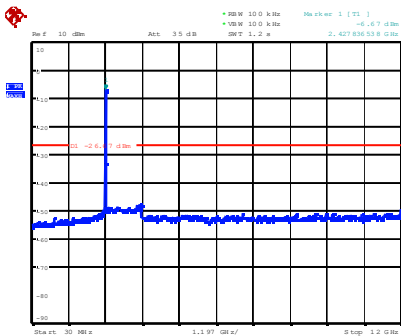
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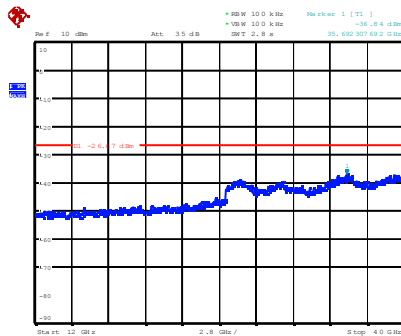
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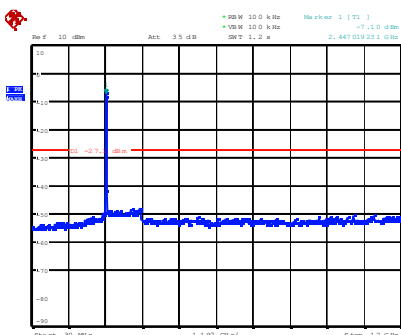
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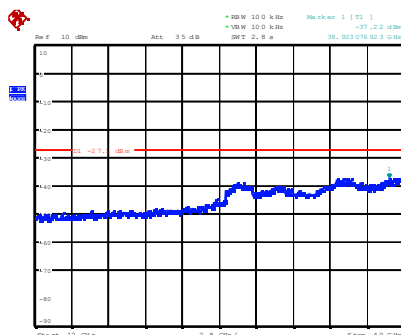
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Date: 9.FEB.2013 07:48:07



Date: 9.FEB.2013 07:49:15

Ant_M2 (2.4GHz) : 802.11n HT20



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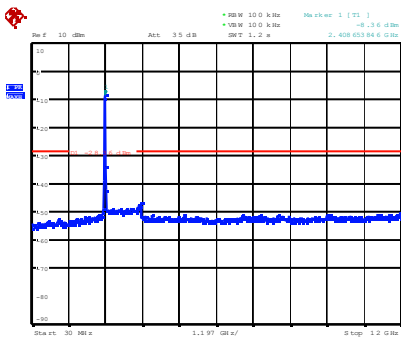
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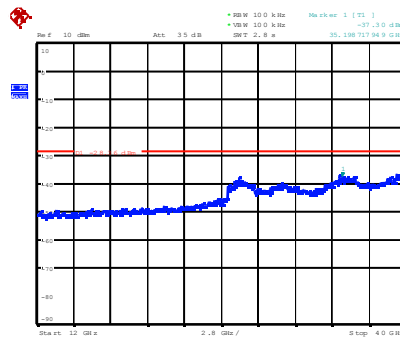
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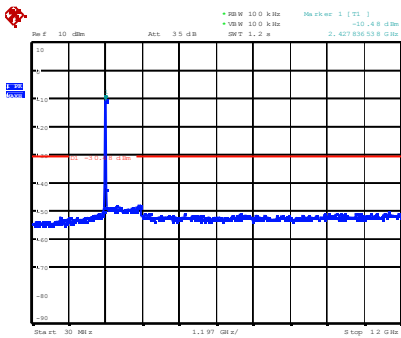
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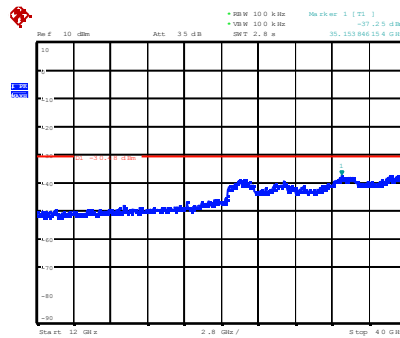
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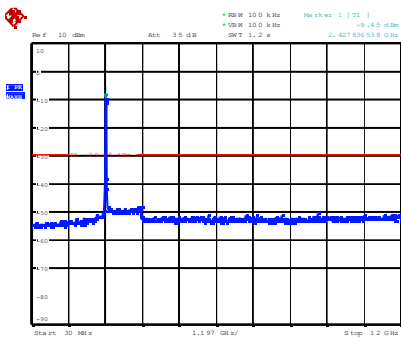
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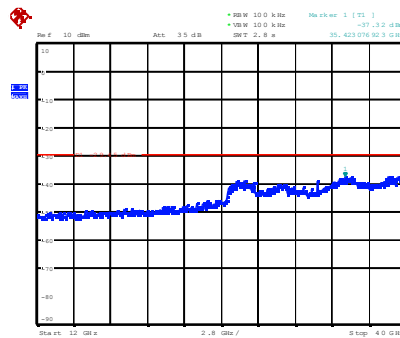
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Date: 9.FEB.2013 07:59:50



Date: 9.FEB.2013 08:01:32

Ant_M2 (2.4GHz) : 802.11n HT40

2.1.5 Field Strength of Emissions

Test Location

- ☒ 10 m SAC (test distance : ☐ 10 m, ☒ 3 m)
☒ 3 m SAC (test distance : 3 m)

Test Procedures

- 1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- 2) In the frequency range above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Test Antenna(above 1 GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

The spectrum analyzer is set to:

Frequency Range = 9 kHz ~ 25 GHz (2.4 GHz 10th harmonic)
RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz, 9 kHz for $f < 30$ MHz
VBW $\geq$ RBW
Sweep = auto

Limit

- 15.209(a)

Frequency(MHz)	Field Strength uV/m@3m	Field Strength dBuV/m@3m	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705-30	30	-	30
30-88	100**	40	3
88-216	150**	43.5	3
216-960	200**	46	3
Above 960	500	54	3

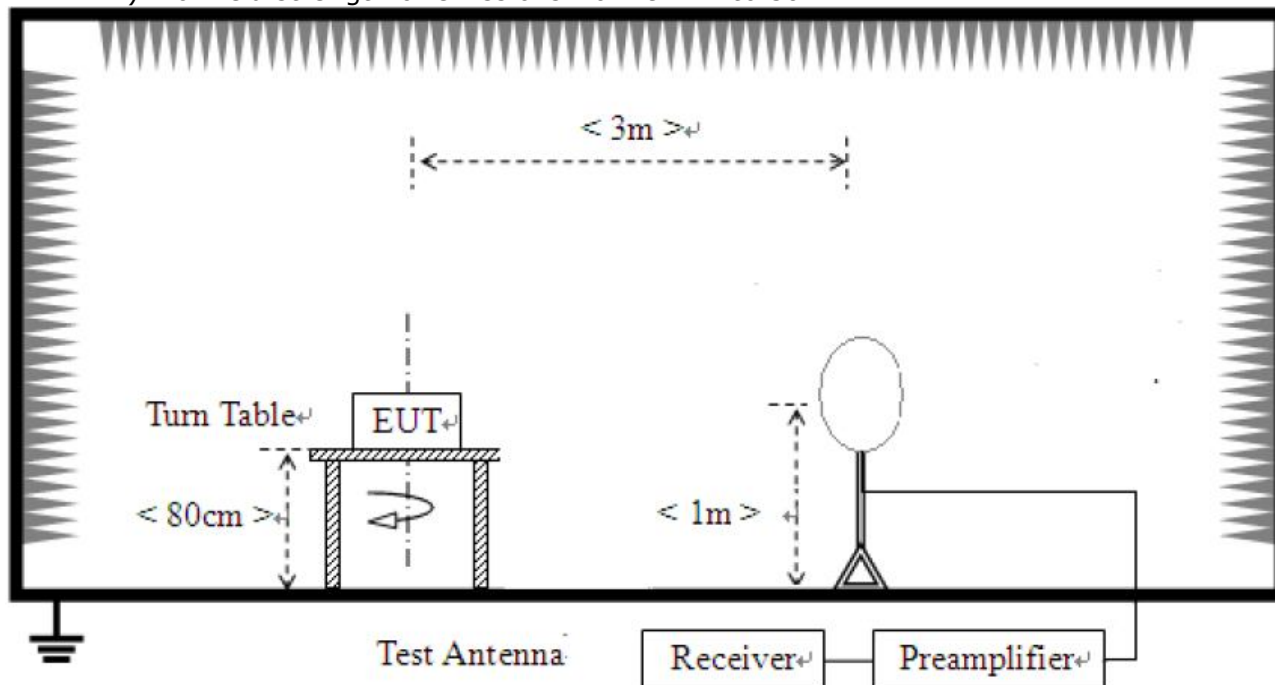
** Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

Note :

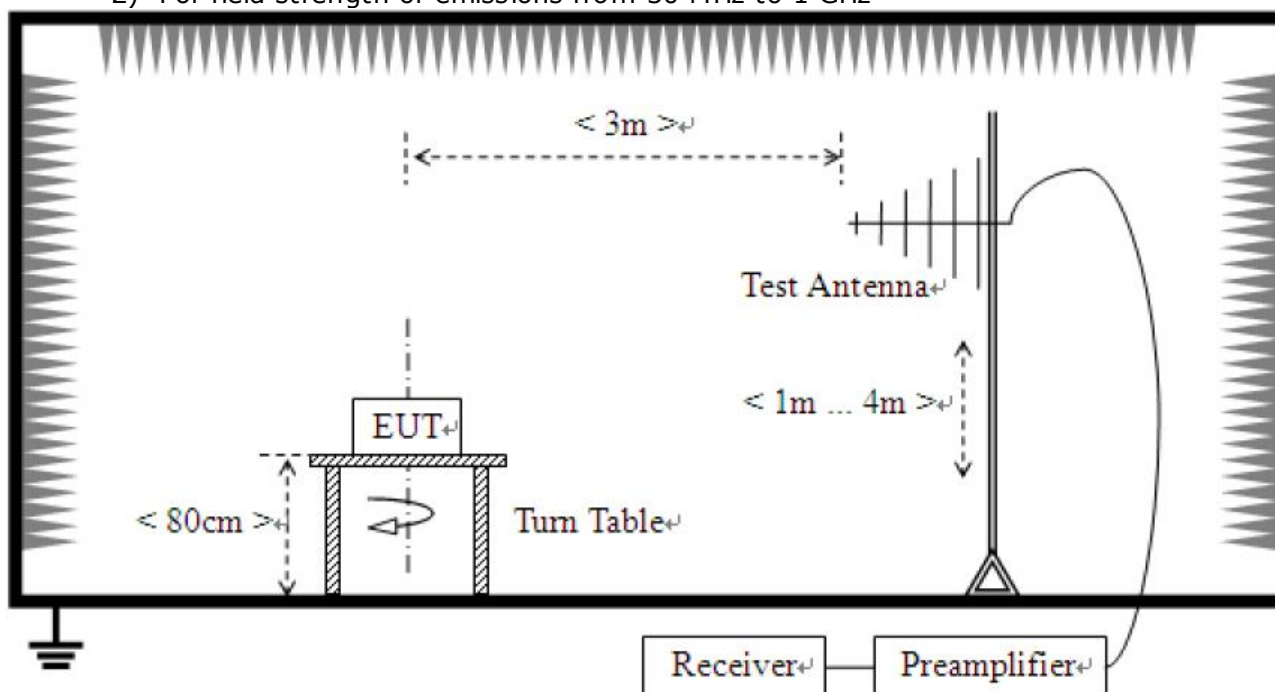
- 1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
- 2) For above 1 GHz, limit field strength of harmonics : 54 dBuV/m@3m (AV) and 74 dBuV/m@3m (PK)

Test Setup:

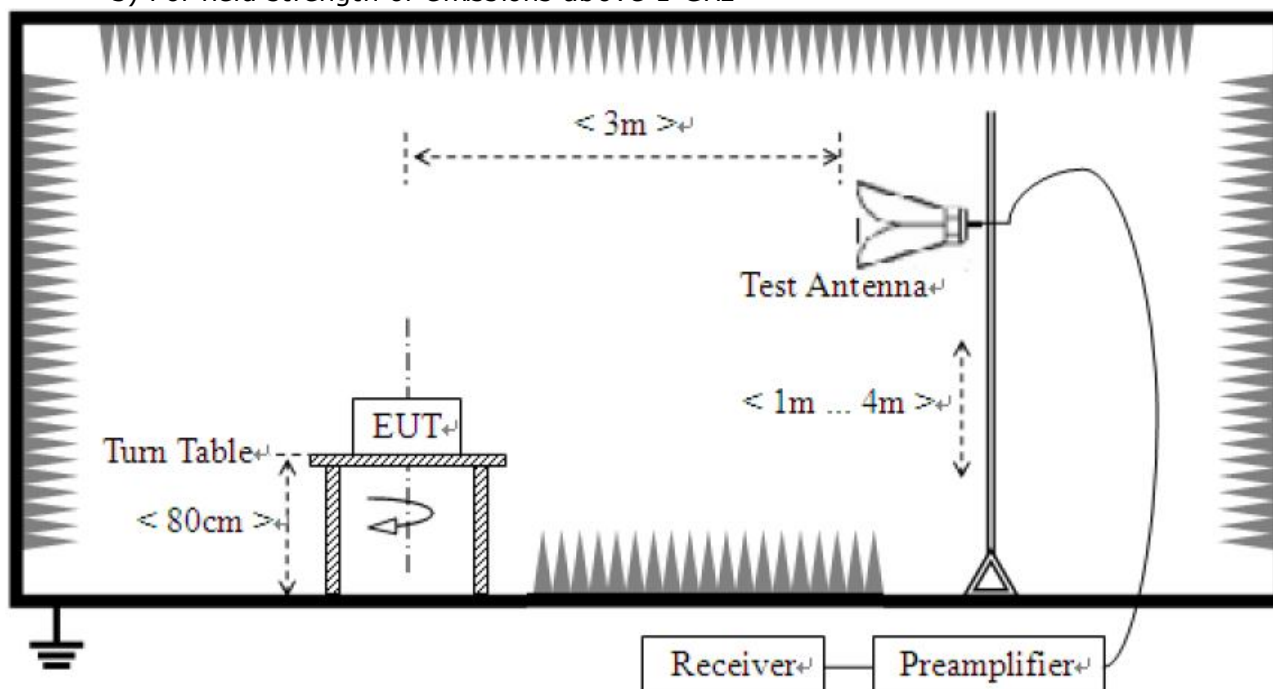
- 1) For field strength of emissions from 9 kHz to 30 MHz



- 2) For field strength of emissions from 30 MHz to 1 GHz



3) For field strength of emissions above 1 GHz



Test Results

1) 9 kHz to 30 MHz

EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	9 kHz – 30 MHz
Test mode	802.11b/n_HT20/n_HT40	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
-	-	-	See note

Note :

The amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB)



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2) 30 MHz to 1 GHz

Test mode : 802.11a

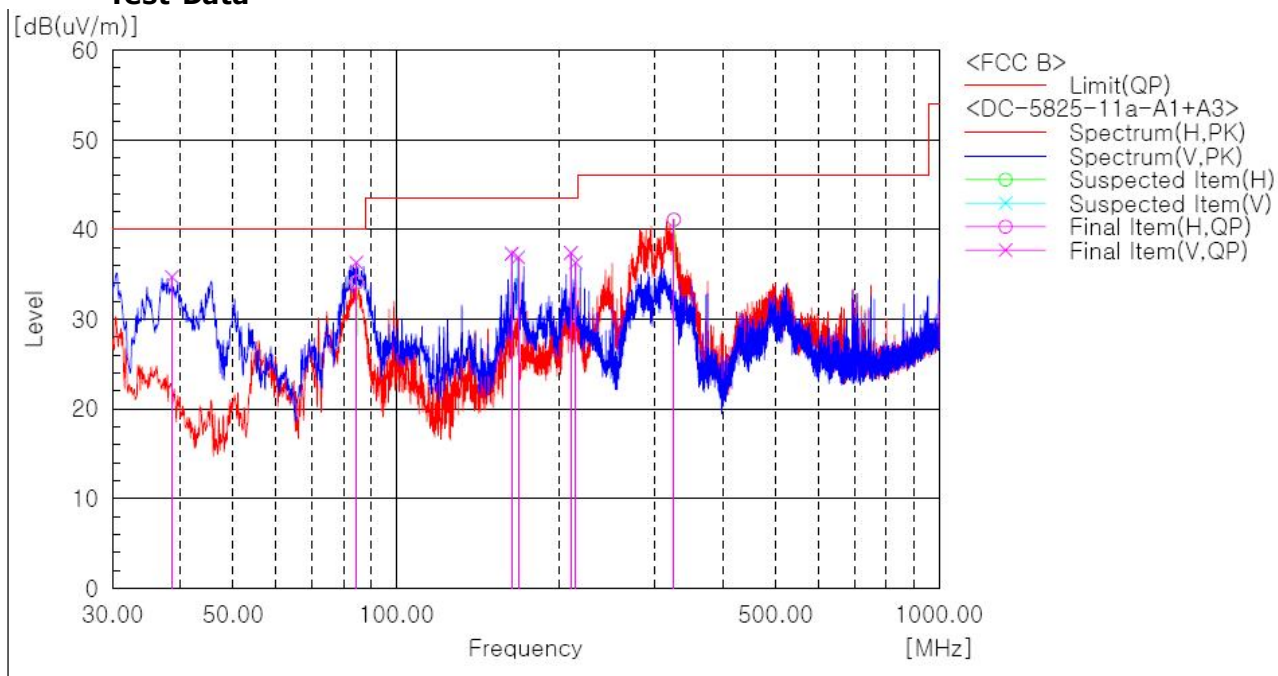
EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	Below 1000MHz
Mode	ANT_A1+A3(5 GHz), DC	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
84.441	36.3	3.7	Quasi-peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	38.609	V	48.5	-13.8	34.7	40.0	5.3	100.0	253.0
2	84.441	V	52.9	-16.6	36.3	40.0	3.7	100.0	67.0
3	84.563	H	50.6	-16.5	34.1	40.0	5.9	209.0	141.0
4	163.133	V	42.4	-5.1	37.3	43.5	6.2	100.0	178.0
5	167.740	V	43.7	-6.8	36.9	43.5	6.6	100.0	178.0
6	209.935	V	50.0	-12.6	37.4	43.5	6.1	100.0	216.0
7	214.179	V	48.8	-12.5	36.3	43.5	7.2	100.0	216.0
8	325.001	H	50.4	-9.3	41.1	46.0	4.9	100.0	318.0

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.



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Test mode : 802.11n HT40

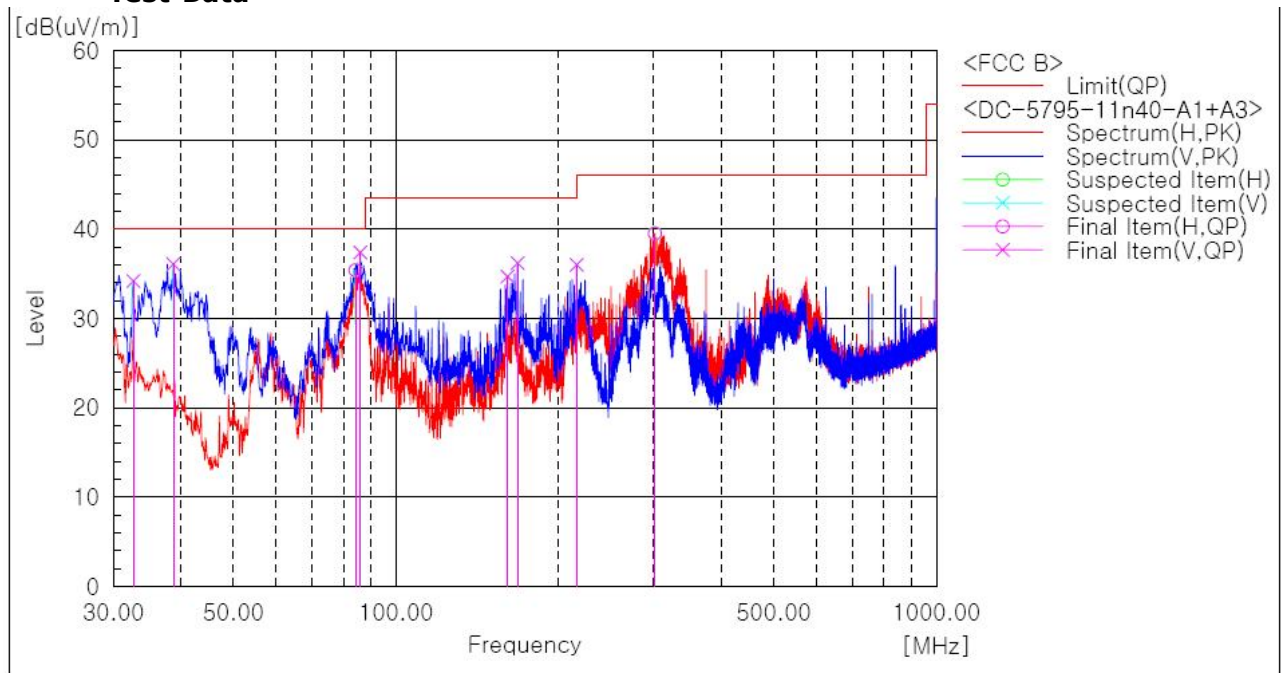
EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	Below 1000MHz
Mode	ANT_A1+A3(5 GHz), DC	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
85.896	37.4	2.6	Quasi-peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	32.668	V	49.0	-14.8	34.2	40.0	5.8	191.0	330.0
2	38.730	V	49.8	-13.7	36.1	40.0	3.9	100.0	215.0
3	84.199	H	52.1	-16.7	35.4	40.0	4.6	207.0	141.0
4	85.896	V	53.4	-16.0	37.4	40.0	2.6	100.0	66.0
5	160.829	V	40.4	-5.7	34.7	43.5	8.8	100.0	178.0
6	167.983	V	43.3	-7.1	36.2	43.5	7.3	100.0	178.0
7	215.998	V	48.5	-12.5	36.0	43.5	7.5	100.0	215.0
8	301.600	H	49.7	-10.2	39.5	46.0	6.5	207.0	290.0

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.



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Test mode : 802.11a

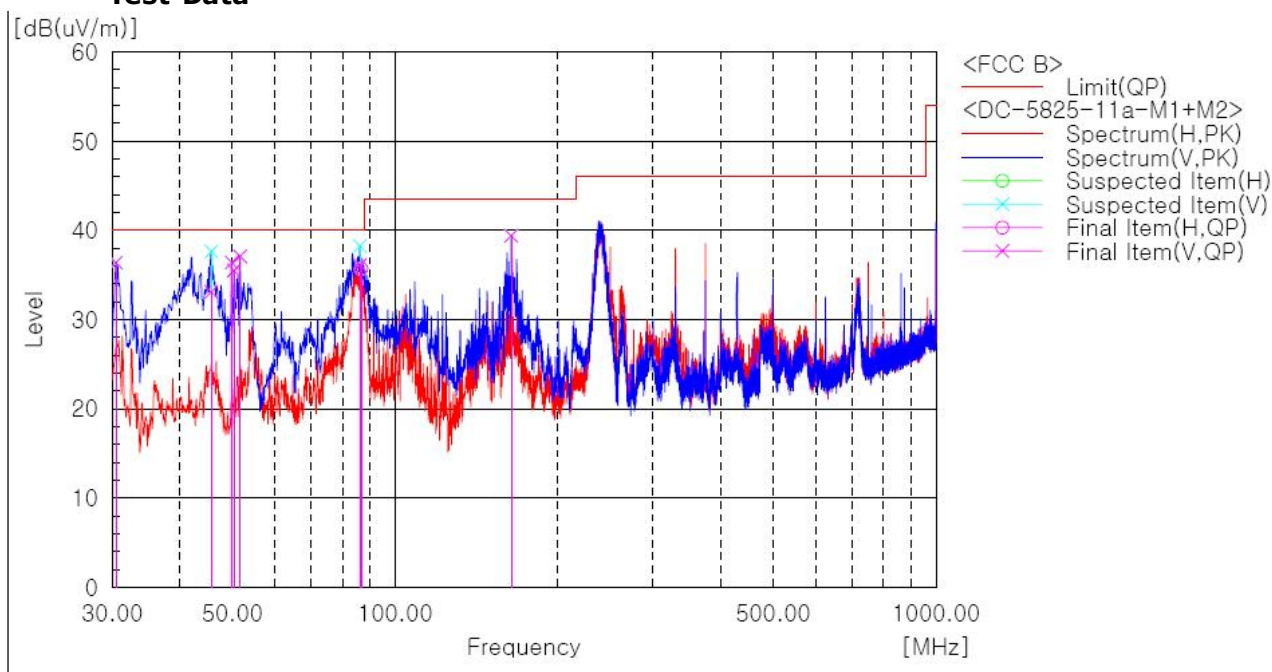
EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	Below 1000MHz
Mode	ANT_M1+M2(5 GHz), DC	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
51.704	37.1	2.9	Quasi-peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	30.485	V	51.2	-14.8	36.4	40.0	3.6	100.0	108.0
2	45.763	V	46.5	-13.4	33.1	40.0	6.9	100.0	145.0
3	49.885	V	50.2	-13.8	36.4	40.0	3.6	100.0	294.0
4	50.370	V	49.4	-13.9	35.5	40.0	4.5	100.0	331.0
5	51.704	V	51.6	-14.5	37.1	40.0	2.9	100.0	0.0
6	86.139	V	52.0	-15.9	36.1	40.0	3.9	100.0	331.0
7	86.624	H	51.4	-15.7	35.7	40.0	4.3	207.0	259.0
8	163.981	V	44.4	-5.0	39.4	43.5	4.1	100.0	257.0

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.



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Test mode : 802.11n HT40

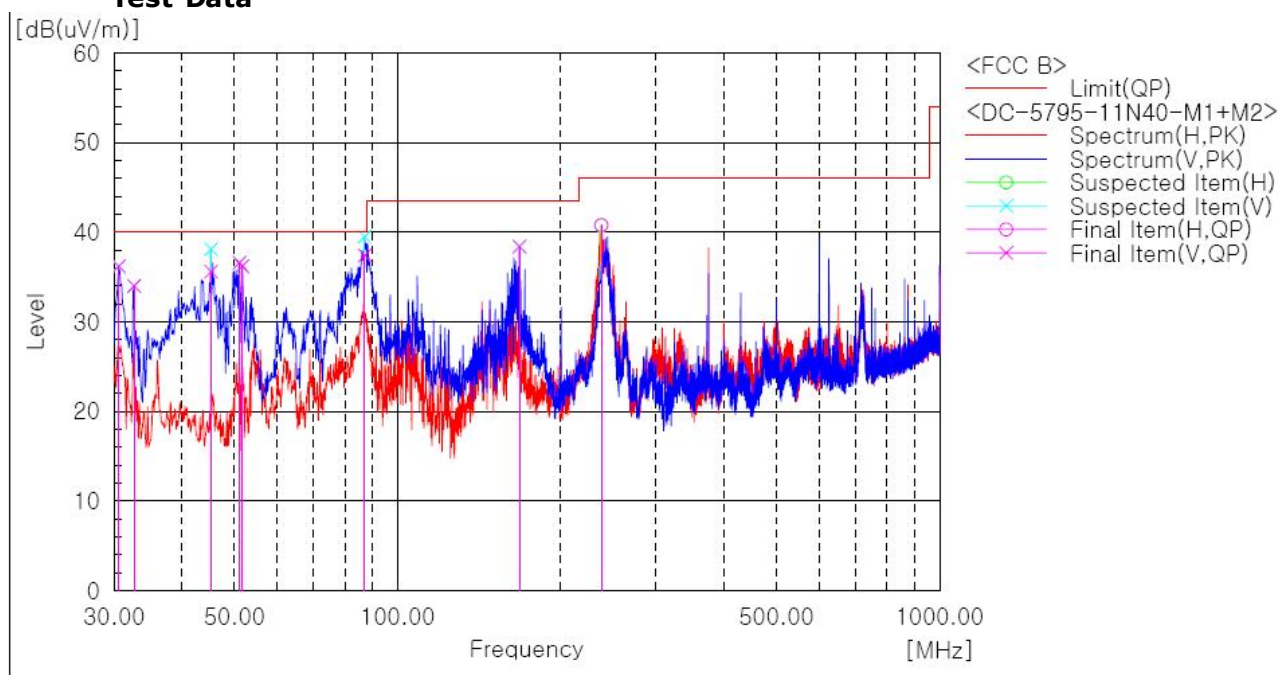
EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	Below 1000MHz
Mode	ANT_M1+M2(5 GHz), DC	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
86.988	37.4	2.6	Quasi-peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	30.606	V	51.0	-14.8	36.2	40.0	3.8	100.0	178.0
2	32.668	V	48.8	-14.8	34.0	40.0	6.0	100.0	253.0
3	45.278	V	49.0	-13.4	35.6	40.0	4.4	100.0	290.0
4	51.098	V	50.8	-14.2	36.6	40.0	3.4	100.0	290.0
5	51.704	V	50.7	-14.5	36.2	40.0	3.8	100.0	253.0
6	86.988	V	53.0	-15.6	37.4	40.0	2.6	100.0	29.0
7	167.861	V	45.3	-6.9	38.4	43.5	5.1	100.0	178.0
8	237.701	H	53.3	-12.5	40.8	46.0	5.2	100.0	278.0

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.



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Test mode : 802.11b

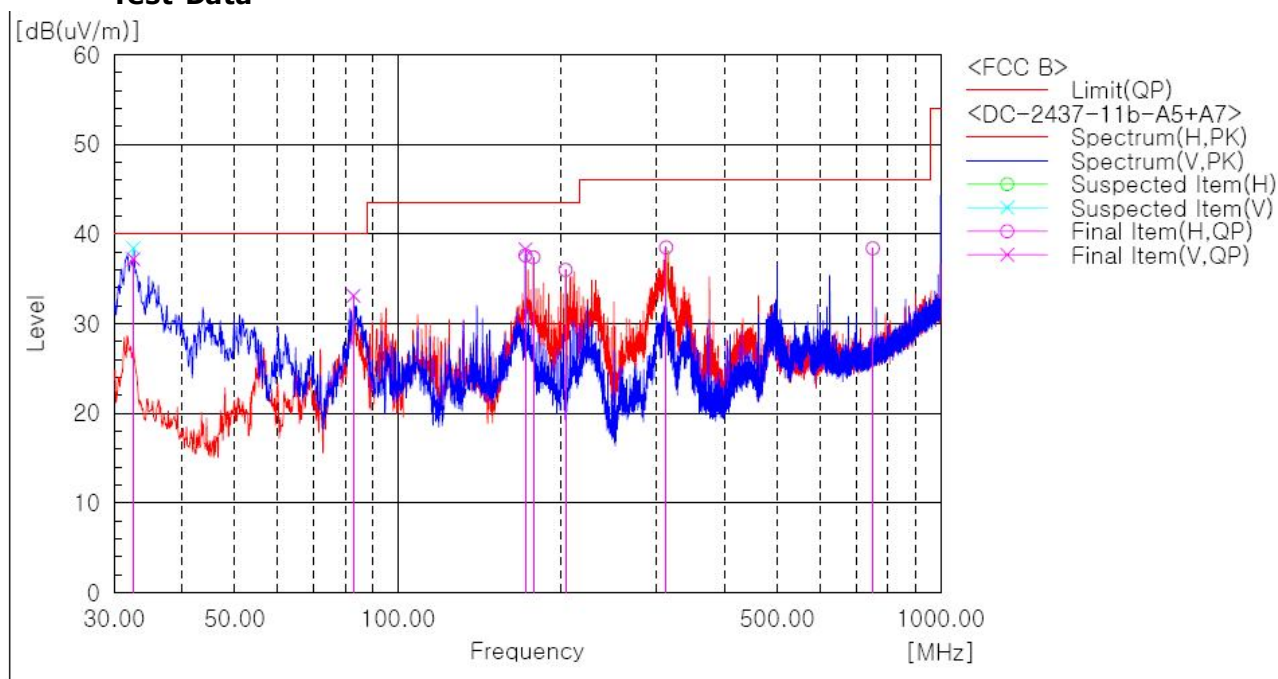
EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	Below 1000MHz
Mode	ANT_A5+A7(2.4 GHz), DC	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
32.546	37.2	2.8	Quasi-peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	32.546	V	52.0	-14.8	37.2	40.0	2.8	100.0	67.0
2	82.865	V	50.4	-17.3	33.1	40.0	6.9	100.0	216.0
3	171.863	V	46.6	-8.3	38.3	43.5	5.2	100.0	216.0
4	171.863	H	45.9	-8.3	37.6	43.5	5.9	206.0	216.0
5	177.683	H	46.7	-9.3	37.4	43.5	6.1	206.0	216.0
6	203.630	H	48.8	-12.8	36.0	43.5	7.5	206.0	290.0
7	312.149	H	48.2	-9.7	38.5	46.0	7.5	100.0	318.0
8	750.104	H	37.6	0.8	38.4	46.0	7.6	100.0	356.0

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.



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Test mode : 802.11n HT40

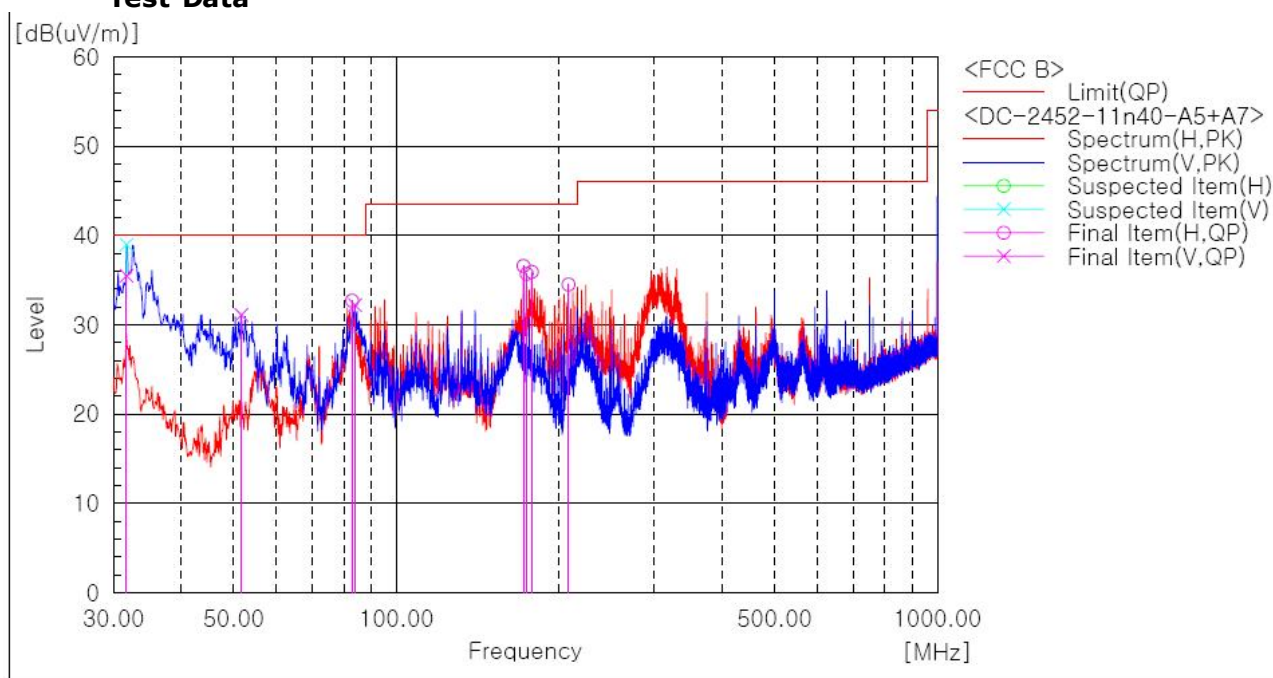
EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	Below 1000MHz
Mode	ANT_A5+A7(2.4 GHz), DC	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
31.698	35.5	4.5	Quasi-peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	31.698	V	50.3	-14.8	35.5	40.0	4.5	100.0	144.0
2	51.704	V	45.6	-14.5	31.1	40.0	8.9	100.0	144.0
3	82.865	H	50.0	-17.3	32.7	40.0	7.3	400.0	70.0
4	83.835	V	49.1	-16.9	32.2	40.0	7.8	100.0	330.0
5	171.863	H	44.9	-8.3	36.6	43.5	6.9	100.0	231.0
6	174.166	H	44.3	-8.6	35.7	43.5	7.8	100.0	231.0
7	178.046	H	45.3	-9.4	35.9	43.5	7.6	205.0	331.0
8	208.116	H	47.2	-12.7	34.5	43.5	9.0	205.0	70.0

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.



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Test mode : 802.11b

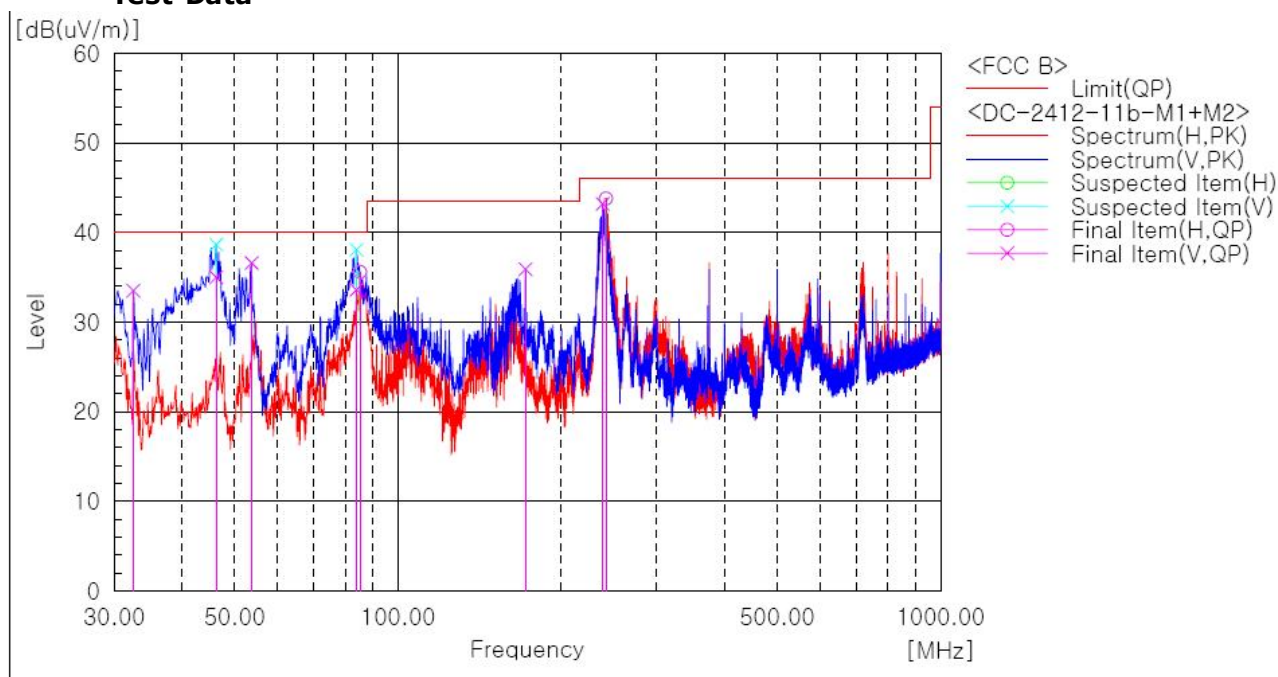
EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	Below 1000MHz
Mode	ANT_M1+M2(2.4 GHz), DC	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
241.824	43.8	2.2	Quasi-peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	32.546	V	48.3	-14.8	33.5	40.0	6.5	100.0	253.0
2	46.248	V	48.3	-13.3	35.0	40.0	5.0	100.0	29.0
3	53.765	V	51.8	-15.2	36.6	40.0	3.4	100.0	290.0
4	83.835	V	50.5	-16.9	33.6	40.0	6.4	100.0	29.0
5	85.169	H	51.9	-16.3	35.6	40.0	4.4	206.0	177.0
6	171.863	V	44.2	-8.3	35.9	43.5	7.6	100.0	0.0
7	238.429	V	55.7	-12.5	43.2	46.0	2.8	100.0	178.0
8	241.824	H	56.3	-12.5	43.8	46.0	2.2	100.0	205.0

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.



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Test mode : 802.11n HT40

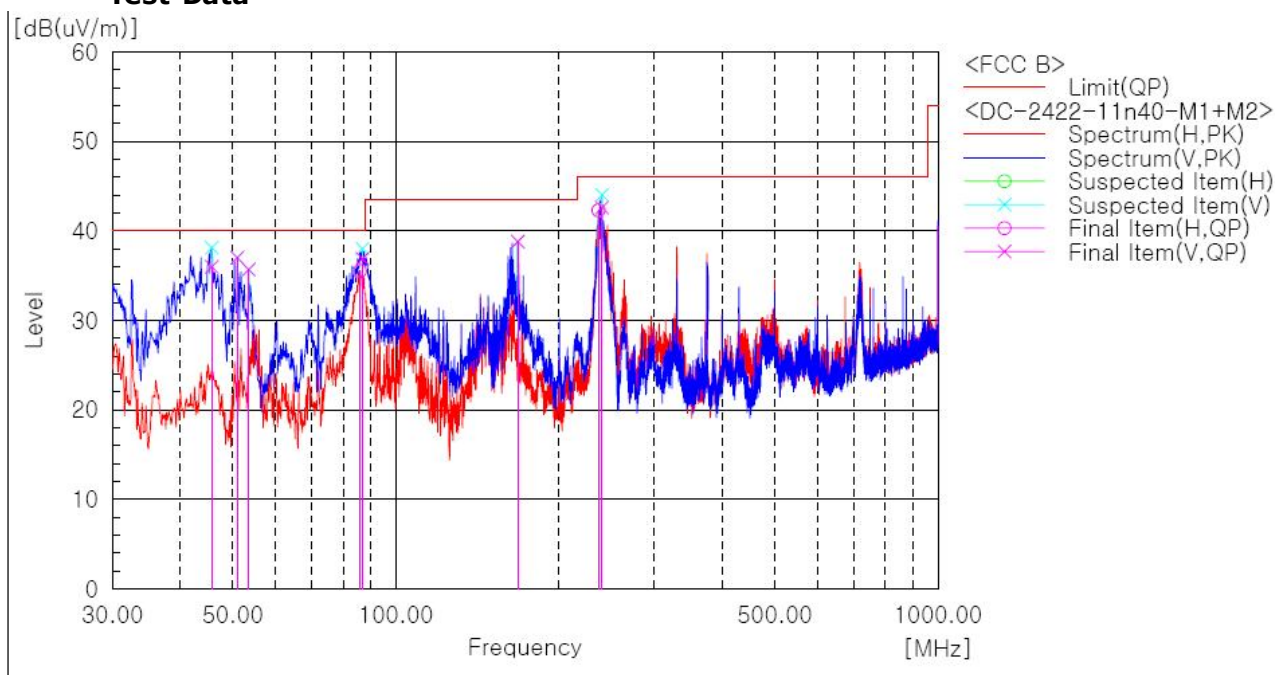
EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	Below 1000MHz
Mode	ANT_M1+M2(2.4 GHz), DC	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
50.976	37.0	3.0	Quasi-peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	45.763	V	49.4	-13.4	36.0	40.0	4.0	100.0	67.0
2	50.976	V	51.2	-14.2	37.0	40.0	3.0	100.0	253.0
3	53.523	V	50.8	-15.1	35.7	40.0	4.3	100.0	253.0
4	85.896	H	51.5	-16.0	35.5	40.0	4.5	206.0	141.0
5	86.745	V	52.6	-15.7	36.9	40.0	3.1	100.0	67.0
6	167.861	V	45.7	-6.9	38.8	43.5	4.7	100.0	179.0
7	236.489	H	54.9	-12.6	42.3	46.0	3.7	100.0	278.0
8	240.005	V	55.1	-12.5	42.6	46.0	3.4	194.0	294.0

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.



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Test mode : 802.11a

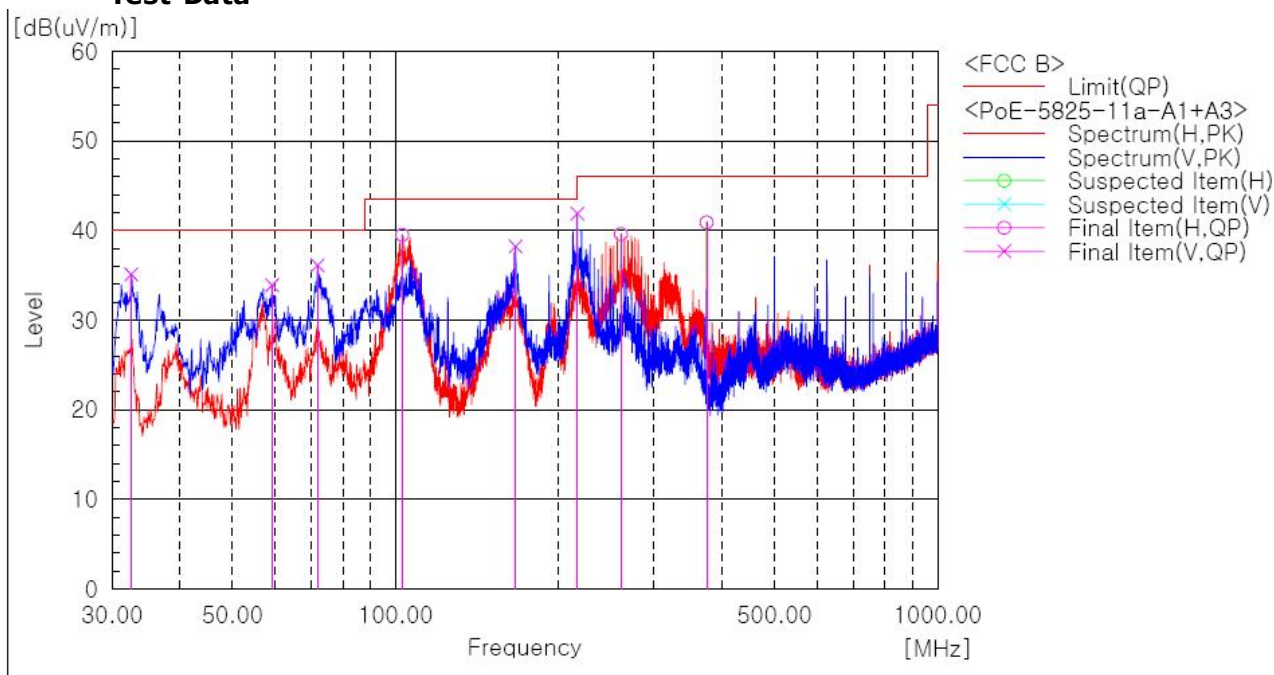
EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	Below 1000MHz
Mode	ANT_A1+A3(5 GHz), PoE	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
71.831	36.1	3.9	Quasi-peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	32.546	V	49.9	-14.8	35.1	40.0	4.9	100.0	269.0
2	59.221	V	46.6	-12.7	33.9	40.0	6.1	100.0	82.0
3	71.831	V	53.6	-17.5	36.1	40.0	3.9	100.0	231.0
4	102.871	H	53.1	-13.6	39.5	43.5	4.0	192.0	0.0
5	166.528	V	43.9	-5.7	38.2	43.5	5.3	100.0	119.0
6	216.483	V	54.4	-12.5	41.9	46.0	4.1	100.0	156.0
7	260.496	H	51.4	-11.8	39.6	46.0	6.4	100.0	219.0
8	374.956	H	48.6	-7.7	40.9	46.0	5.1	100.0	182.0

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.



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Test mode : 802.11n HT40

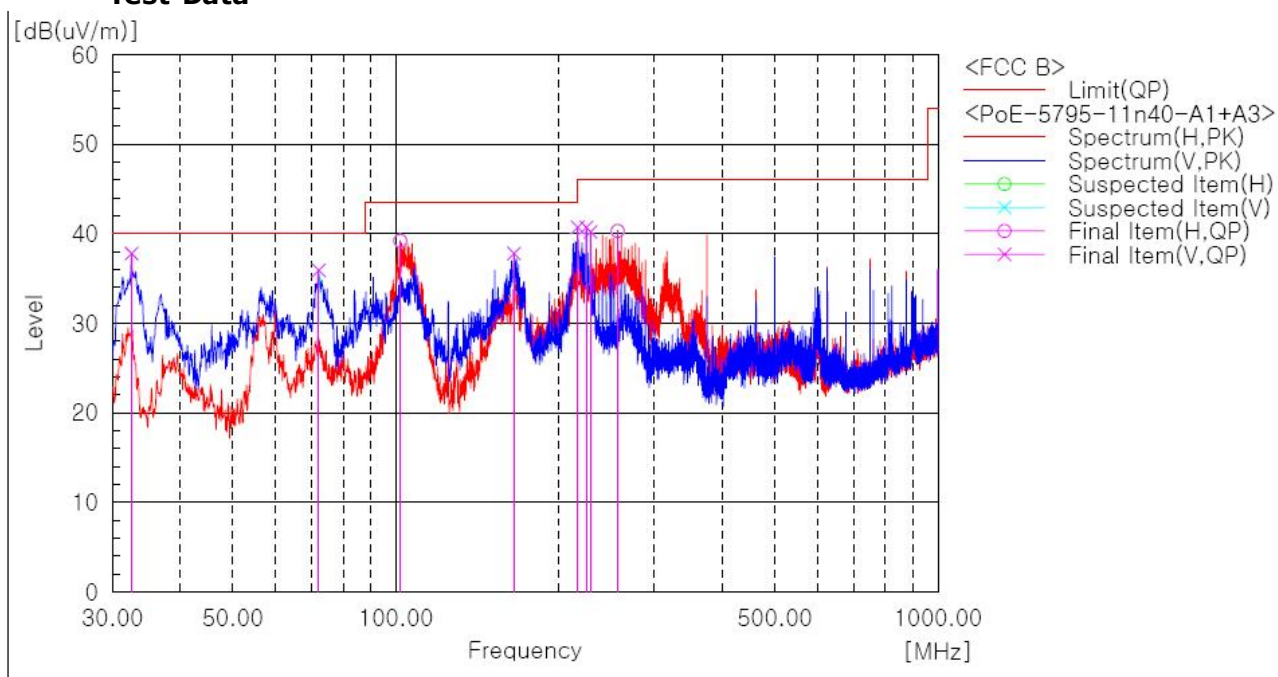
EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	Below 1000MHz
Mode	ANT_A1+A3(5 GHz), PoE	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
32.546	37.8	2.2	Quasi-peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	32.546	V	52.6	-14.8	37.8	40.0	2.2	100.0	268.0
2	72.074	V	53.5	-17.6	35.9	40.0	4.1	100.0	231.0
3	101.901	H	52.8	-13.6	39.2	43.5	4.3	100.0	70.0
4	165.194	V	42.7	-4.9	37.8	43.5	5.7	100.0	156.0
5	216.483	V	53.2	-12.5	40.7	46.0	5.3	100.0	156.0
6	224.606	V	53.3	-12.6	40.7	46.0	5.3	100.0	156.0
7	228.608	V	53.0	-12.8	40.2	46.0	5.8	208.0	70.0
8	256.616	H	52.4	-12.1	40.3	46.0	5.7	100.0	0.0

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.



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Test mode : 802.11a

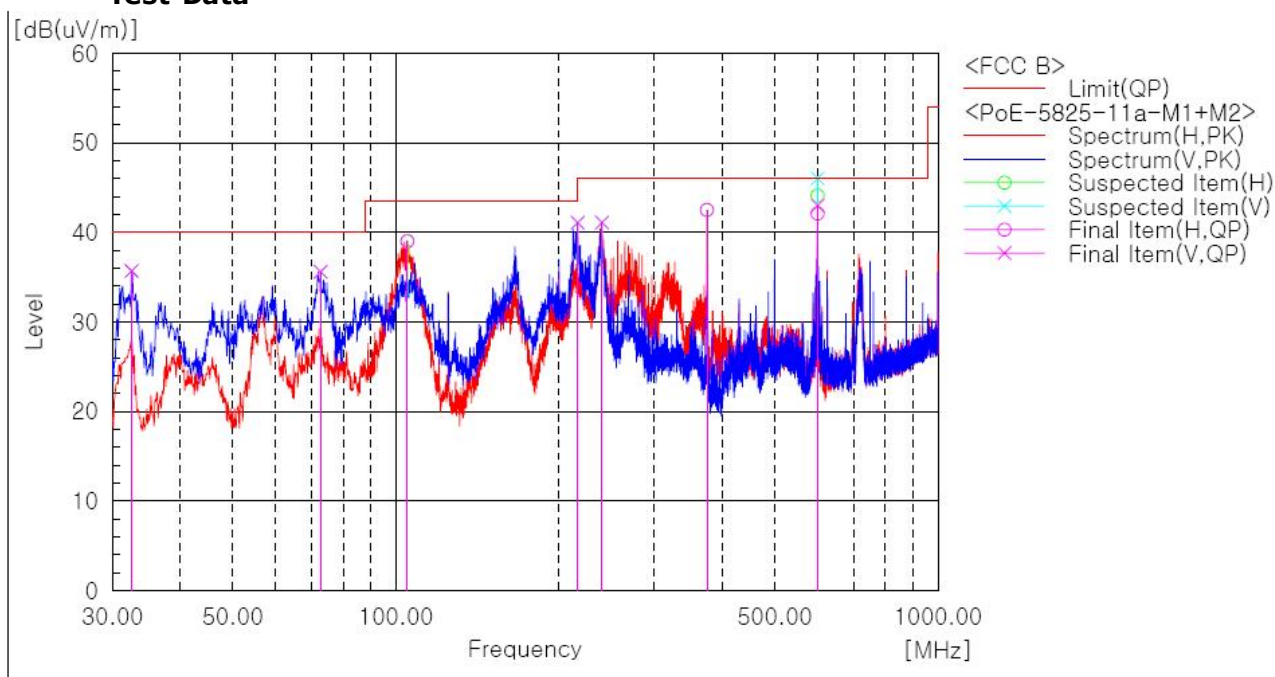
EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	Below 1000MHz
Mode	ANT_M1+M2(5 GHz), PoE	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
599.996	43.0	3.0	Quasi-peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	32.546	V	50.5	-14.8	35.7	40.0	4.3	100.0	231.0
2	72.680	V	53.5	-17.9	35.6	40.0	4.4	100.0	193.0
3	105.054	H	52.6	-13.6	39.0	43.5	4.5	195.0	290.0
4	216.483	V	53.6	-12.5	41.1	46.0	4.9	100.0	156.0
5	240.005	V	53.6	-12.5	41.1	46.0	4.9	100.0	7.0
6	374.956	H	50.2	-7.7	42.5	46.0	3.5	100.0	182.0
7	599.996	V	45.4	-2.4	43.0	46.0	3.0	100.0	193.0
8	599.996	H	44.5	-2.4	42.1	46.0	3.9	195.0	141.0

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.



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Tel: +82-31-339-9970 Fax: +82-31-339-9855

www.e-ctk.com

Test mode : 802.11n HT40

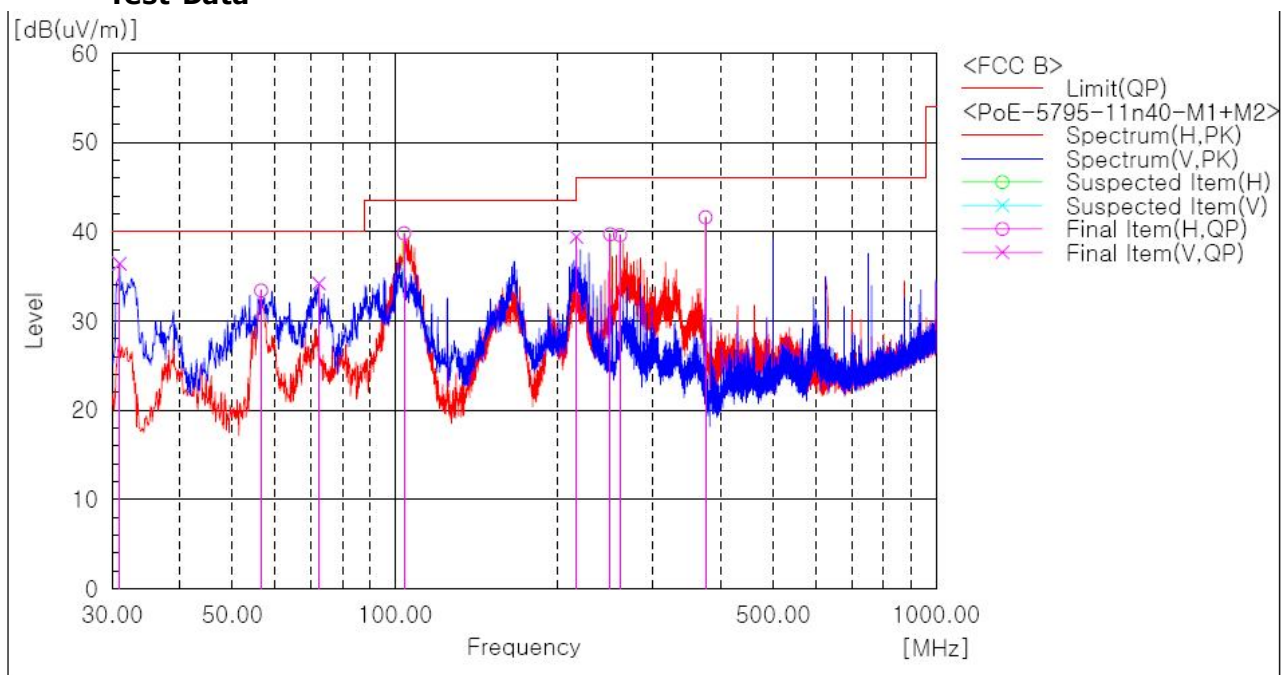
EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	Below 1000MHz
Mode	ANT_M1+M2(5 GHz), PoE	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
30.970	36.4	3.6	Quasi-peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	30.970	V	51.2	-14.8	36.4	40.0	3.6	100.0	294.0
2	56.554	H	48.1	-14.7	33.4	40.0	6.6	304.0	253.0
3	72.316	V	51.9	-17.7	34.2	40.0	5.8	100.0	0.0
4	103.963	H	53.4	-13.6	39.8	43.5	3.7	400.0	70.0
5	216.361	V	51.9	-12.5	39.4	46.0	6.6	100.0	219.0
6	249.947	H	52.2	-12.5	39.7	46.0	6.3	100.0	157.0
7	260.496	H	51.4	-11.8	39.6	46.0	6.4	100.0	194.0
8	374.956	H	49.3	-7.7	41.6	46.0	4.4	100.0	119.0

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.



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Test mode : 802.11b

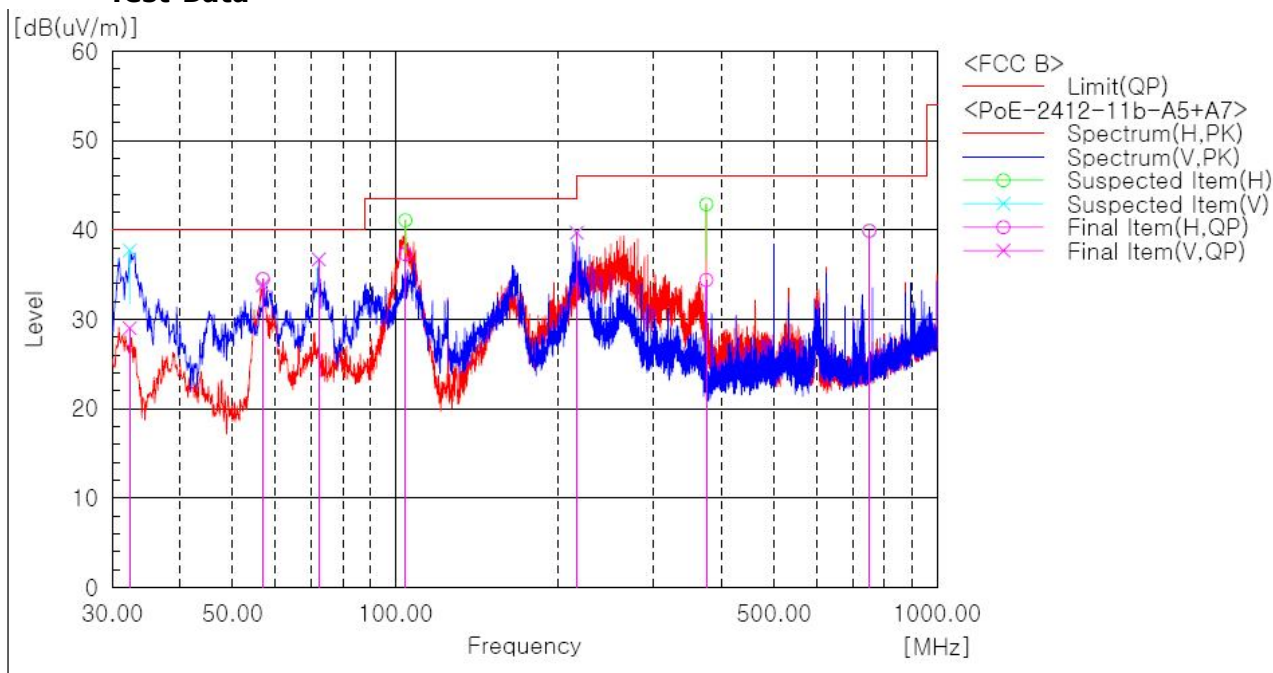
EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	Below 1000MHz
Mode	ANT_A5+A7(2.4 GHz), PoE	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
72.195	36.7	3.3	Quasi-peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	32.304	V	43.8	-14.8	29.0	40.0	11.0	100.0	330.0
2	56.918	H	48.9	-14.4	34.5	40.0	5.5	308.0	253.0
3	56.918	V	48.2	-14.4	33.8	40.0	6.2	293.0	181.0
4	72.195	V	54.4	-17.7	36.7	40.0	3.3	100.0	330.0
5	104.326	H	50.9	-13.6	37.3	43.5	6.2	400.0	70.0
6	216.240	V	52.2	-12.5	39.7	46.0	6.3	100.0	218.0
7	375.078	H	42.1	-7.7	34.4	46.0	11.6	100.0	119.0
8	750.104	H	39.1	0.8	39.9	46.0	6.1	100.0	231.0

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.



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Test mode : 802.11n HT40

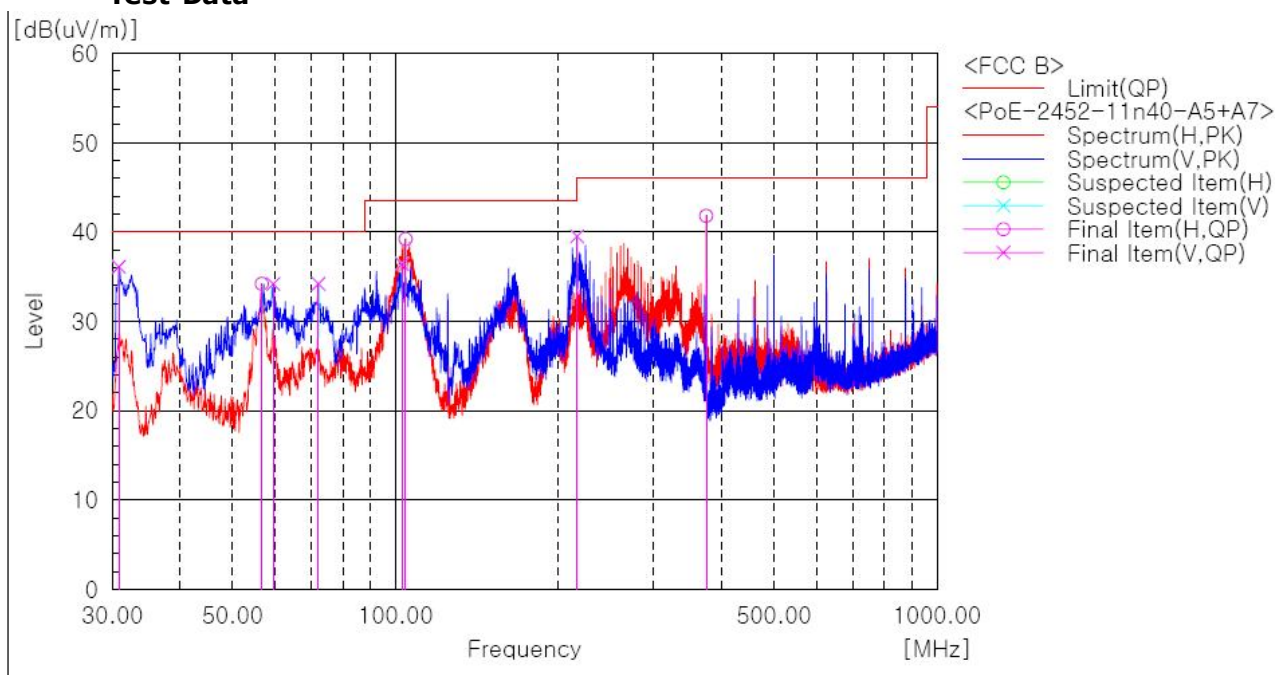
EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	Below 1000MHz
Mode	ANT_A5+A7(2.4 GHz), PoE	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
30.849	36.1	3.9	Quasi-peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	30.849	V	50.9	-14.8	36.1	40.0	3.9	100.0	294.0
2	56.675	H	48.8	-14.6	34.2	40.0	5.8	304.0	215.0
3	59.464	V	46.8	-12.6	34.2	40.0	5.8	100.0	107.0
4	72.074	V	51.8	-17.6	34.2	40.0	5.8	100.0	331.0
5	102.871	V	50.0	-13.6	36.4	43.5	7.1	100.0	256.0
6	104.448	H	52.8	-13.6	39.2	43.5	4.3	400.0	70.0
7	216.483	V	52.0	-12.5	39.5	46.0	6.5	100.0	219.0
8	374.956	H	49.5	-7.7	41.8	46.0	4.2	100.0	119.0

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.



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Test mode : 802.11b

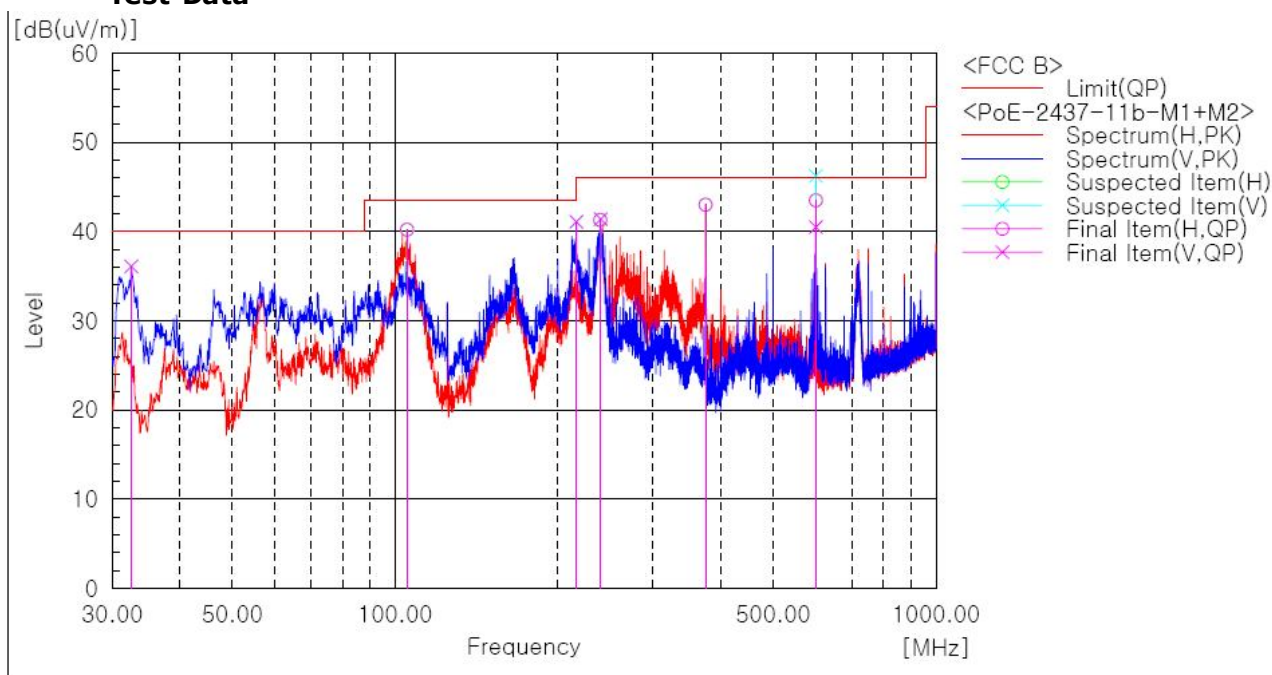
EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	Below 1000MHz
Mode	ANT_M1+M2(2.4 GHz), PoE	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
599.996	43.5	2.5	Quasi-peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	32.546	V	50.9	-14.8	36.1	40.0	3.9	100.0	268.0
2	105.296	H	53.8	-13.6	40.2	43.5	3.3	305.0	290.0
3	216.361	V	53.6	-12.5	41.1	46.0	4.9	100.0	157.0
4	239.641	H	53.8	-12.5	41.3	46.0	4.7	100.0	6.0
5	240.005	V	53.9	-12.5	41.4	46.0	4.6	100.0	8.0
6	375.078	H	50.7	-7.7	43.0	46.0	3.0	100.0	118.0
7	599.996	V	42.9	-2.4	40.5	46.0	5.5	100.0	268.0
8	599.996	H	45.9	-2.4	43.5	46.0	2.5	208.0	257.0

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.



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Test mode : 802.11n HT40

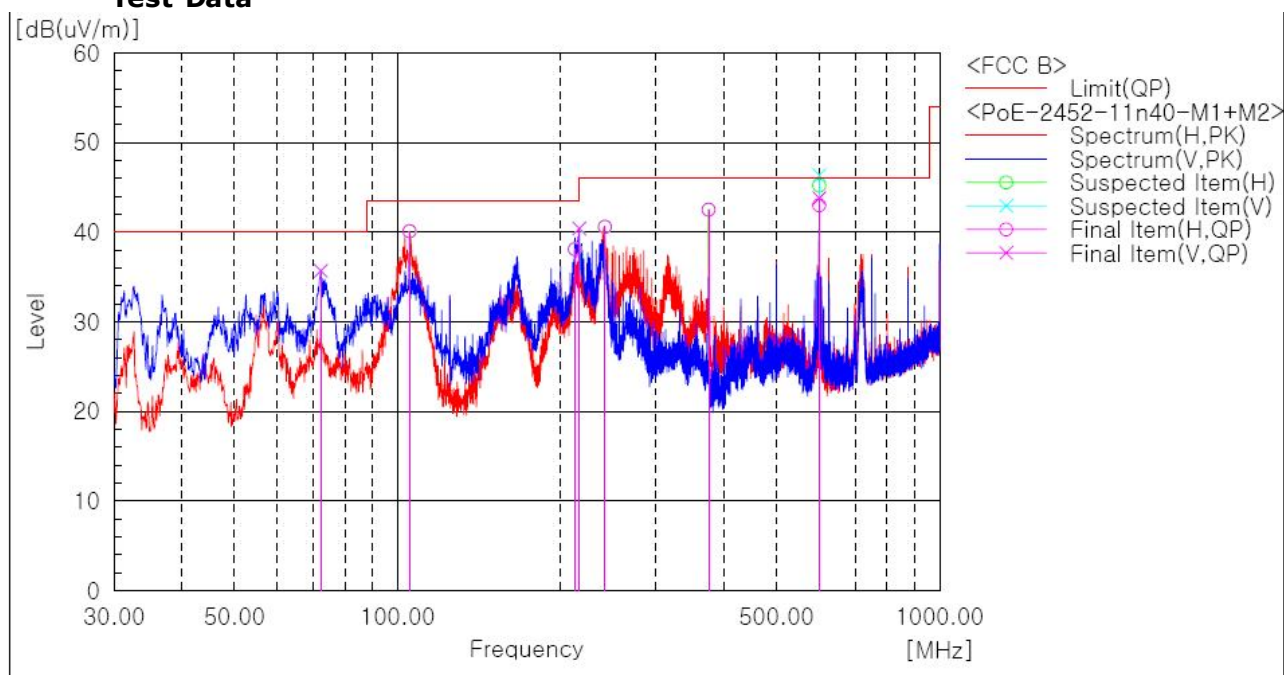
EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	Below 1000MHz
Mode	ANT_M1+M2(2.4 GHz), PoE	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
599.996	43.8	2.2	Quasi-peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	72.195	V	53.4	-17.7	35.7	40.0	4.3	100.0	231.0
2	105.296	H	53.7	-13.6	40.1	43.5	3.4	193.0	290.0
3	212.481	H	50.7	-12.6	38.1	43.5	5.4	193.0	178.0
4	216.483	V	52.9	-12.5	40.4	46.0	5.6	208.0	70.0
5	241.460	H	53.1	-12.5	40.6	46.0	5.4	100.0	70.0
6	374.956	H	50.2	-7.7	42.5	46.0	3.5	100.0	182.0
7	599.996	V	46.2	-2.4	43.8	46.0	2.2	100.0	194.0
8	599.996	H	45.4	-2.4	43.0	46.0	3.0	193.0	178.0

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(X axis) and the worst case was recorded.

3) above 1 GHz

EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	1-40GHz
Mode	ANT_A1+A3(5 GHz)	Detector function	Average / Peak
Channel	Low Channel		

Remarks

We have tested three mode (X, Y, Z). The worst mode (X axis) for final test.

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
1220.58	45.6	8.4	Average

Test Data (Mode: 802.11a)

Frequency [MHz]	Reading [dBuV/m] AV / Peak	Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
				Antenna	CL+Amp						
1220.40	46.2 : 51.9	V	1.0	24.7	-25.5	54.0	74.0	45.4	51.0	8.6	23.0

Test Data (Mode: 802.11n HT40)

Frequency [MHz]	Reading [dBuV/m] AV / Peak	Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
				Antenna	CL+Amp						
1220.58	46.5 : 51.9	V	1.0	24.7	-25.5	54.0	74.0	45.6	51.0	8.4	23.0



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EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	1-40GHz
Mode	ANT_A1+A3(5 GHz)	Detector function	Average / Peak
Channel	High Channel		

Remarks

We have tested three mode (X, Y, Z). The worst mode (X axis) for final test.

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
1220.51	46.2	7.8	Average

Test Data (Mode: 802.11a)

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
1220.51	47.1	52.0	V	1.0	24.7	-25.5	54.0	74.0	46.2	51.1	7.8	22.9

Test Data (Mode: 802.11n HT40)

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
1220.58	45.4	52.0	V	1.0	24.7	-25.5	54.0	74.0	44.5	51.1	9.5	22.9



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EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	1-40GHz
Mode	ANT_M1+M2(5 GHz)	Detector function	Average / Peak
Channel	Low Channel		

Remarks

We have tested three mode (X, Y, Z). The worst mode (X axis) for final test.

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
1220.35	44.2	9.8	Average

Test Data (Mode: 802.11a)

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
1220.35	45.1	52.2	V	1.0	24.7	-25.5	54.0	74.0	44.2	51.3	9.8	22.7

Test Data (Mode: 802.11n HT40)

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
1220.35	43.3	51.2	V	1.0	24.7	-25.5	54.0	74.0	42.4	50.3	11.6	23.7



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EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	1-40GHz
Mode	ANT_M1+M2(5 GHz)	Detector function	Average / Peak
Channel	High Channel		

Remarks

We have tested three mode (X, Y, Z). The worst mode (X axis) for final test.

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
1220.35	44.3	9.7	Average

Test Data (Mode: 802.11a)

Frequency [MHz]	Reading [dBuV/m]		Pol.	Height [m]	Correction Factor		Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]	
	AV	Peak			Antenna	CL+Amp	AV	Peak	AV	Peak	AV	Peak
1220.35	45.2	51.6	V	1.0	24.7	-25.5	54.0	74.0	44.3	50.7	9.7	23.3

Test Data (Mode: 802.11n HT40)

Frequency [MHz]	Reading [dBuV/m]		Pol.	Height [m]	Correction Factor		Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]	
	AV	Peak			Antenna	CL+Amp	AV	Peak	AV	Peak	AV	Peak
1220.35	44.5	51.5	H	1.0	24.7	-25.5	54.0	74.0	43.6	50.6	10.4	23.4



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EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	1-25GHz
Mode	ANT_A5+A7(2.4 GHz)	Detector function	Average / Peak
Channel	Low Channel		

Remarks

We have tested three mode (X, Y, Z). The worst mode (X axis) for final test.

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
2390.00	50.3	3.7	Average

Test Data (Mode: 802.11b)

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
4824.00	35.7	53.2	V	1.0	32.8	-18.4	54.0	74.0	50.1	67.6	3.9	6.4

Test Data (Mode: 802.11n HT40)

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
4844.00	33.5	48.5	V	1.0	32.8	-18.4	54.0	74.0	47.9	62.9	6.1	11.1

Restricted band edge test data

Measured frequency range : 2310-2390 MHz, 2483.5-2500 MHz

Test Data - 802.11b

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
2324.37	40.7	50.6	V	1.0	28.6	-22.4	54.0	74.0	46.9	56.8	7.1	17.2

Test Data - 802.11n HT40

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
2390.00	44.1	60.9	V	1.0	28.6	-22.4	54.0	74.0	50.3	67.1	3.7	6.9



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EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	1-25GHz
Mode	ANT_A5+A7(2.4 GHz)	Detector function	Average / Peak
Channel	High Channel		

Remarks

We have tested three mode (X, Y, Z). The worst mode (X axis) for final test.

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
2483.50	49.6	4.4	Average

Test Data (Mode: 802.11b)

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
4924.00	33.1	49.1	V	1.0	33.0	-19.0	54.0	74.0	47.1	63.1	6.9	10.9

Test Data (Mode: 802.11n HT40)

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
4904.00	34.2	49.7	V	1.0	33.0	-19.0	54.0	74.0	48.2	63.7	5.8	10.3

Restricted band edge test data

Measured frequency range : 2310-2390 MHz, 2483.5-2500 MHz

Test Data - 802.11b

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
2500.00	42.2	49.4	V	1.0	28.8	-22.1	54.0	74.0	48.9	56.1	5.1	17.9

Test Data - 802.11n HT40

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
2483.50	43.3	61.5	V	1.0	28.7	-22.4	54.0	74.0	49.6	67.8	4.4	6.2



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EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	1-25GHz
Mode	ANT_M1+M2(2.4 GHz)	Detector function	Average / Peak
Channel	Low Channel		

Remarks

We have tested three mode (X, Y, Z). The worst mode (X axis) for final test.

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
4824.00	46.0	8.0	Average

Test Data (Mode: 802.11b)

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
4824.00	31.6	47.3	V	1.0	32.8	-18.4	54.0	74.0	46.0	61.7	8.0	12.3

Test Data (Mode: 802.11n HT40)

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
4904.00	29.1	43.3	V	1.0	33.0	-19.0	54.0	74.0	43.1	57.3	10.9	16.7

Restricted band edge test data

Measured frequency range : 2310-2390 MHz, 2483.5-2500 MHz

Test Data - 802.11b

Frequency [MHz]	Reading [dBuV/m] AV / Peak	Pol.	Height [m]	Correction		Limits [dBuV/m] AV / Peak	Result [dBuV/m] AV / Peak	Margin [dB] AV / Peak
				Factor				
				Antenna	Amp. Gain			
No emissions were detected at a level greater than 20dB below limit.								

Test Data - 802.11n HT40

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
2390.00	36.3	56.8	V	1.0	28.6	-22.4	54.0	74.0	42.5	63.0	11.5	11.0



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EUT	Access Point	Measurement Detail	
Model	WEA302i	Frequency Range	1-25GHz
Mode	ANT_M1+M2(2.4 GHz)	Detector function	Average / Peak
Channel	High Channel		

Remarks

We have tested three mode (X, Y, Z). The worst mode (X axis) for final test.

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
4924.00	44.6	9.4	Average

Test Data (Mode: 802.11b)

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
4924.00	30.6	45.6	V	1.0	33.0	-19.0	54.0	74.0	44.6	59.6	9.4	14.4

Test Data (Mode: 802.11n HT40)

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
4904.00	30.0	43.8	V	1.0	33.0	-19.0	54.0	74.0	44.0	57.8	10.0	16.2

Restricted band edge test data

Measured frequency range : 2310-2390 MHz, 2483.5-2500 MHz

Test Data - 802.11b

Frequency [MHz]	Reading [dBuV/m] AV / Peak	Pol.	Height [m]	Correction		Limits [dBuV/m] AV / Peak	Result [dBuV/m] AV / Peak	Margin [dB] AV / Peak
				Factor				
				Antenna	Amp. Gain			
No emissions were detected at a level greater than 20dB below limit.								

Test Data - 802.11n HT40

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Height [m]	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
					Antenna	CL+Amp						
2483.50	36.1	57.4	V	1.0	28.7	-22.4	54.0	74.0	42.4	63.7	11.6	10.3

2.1.6 AC Conducted Emissions

Test Location

Shielded Room

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Procedures

The EUT was placed on a non-metallic table 0.8m above the metallic, grounded floor and 0.4m from the reference ground plane wall. The distance to other metallic surfaces was at least 0.8m.

Amplitude measurements were performed with a quasi-peak detector and an average detector.

Limit

- 15.207(a)

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56*	56 to 46*
0.5 ~ 5	56	46
5 ~ 30	60	50

* Decreases with the logarithm of the frequency.

Test Results

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
0.294	41.9	8.9	Average



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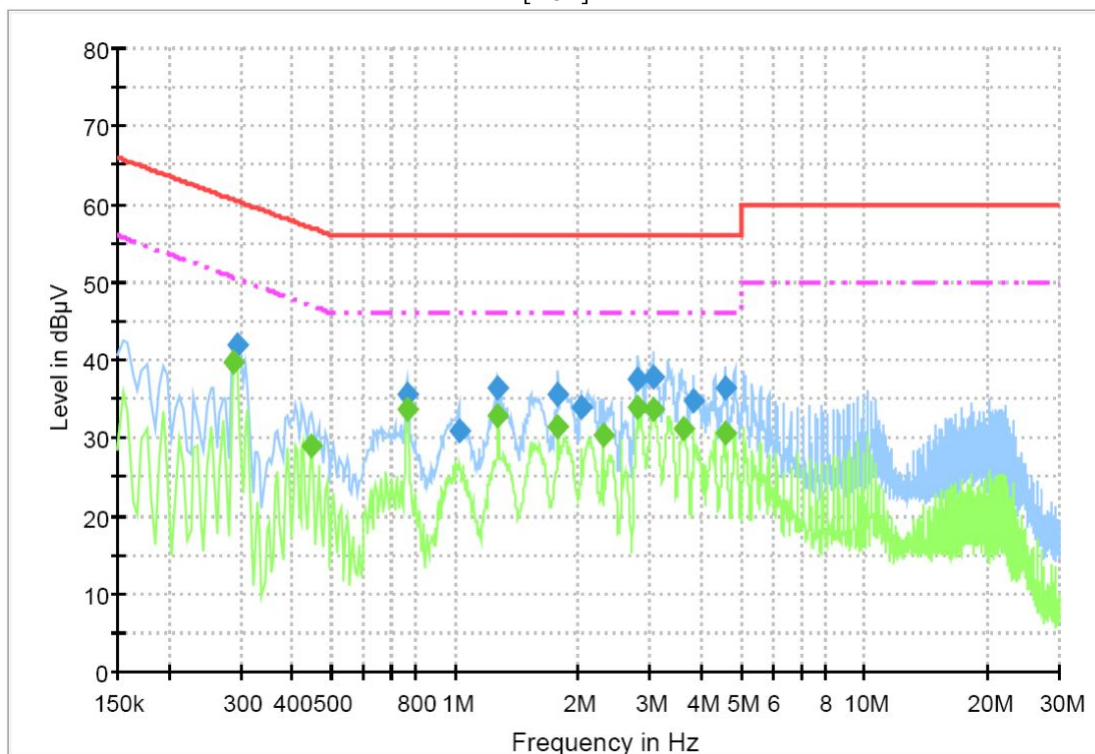
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Test Data

[HOT]



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.294000	41.9	1000.0	9.000	On	L1	10.0	18.5	60.4
0.766500	35.6	1000.0	9.000	On	L1	10.0	20.4	56.0
1.023000	31.0	1000.0	9.000	On	L1	9.9	25.0	56.0
1.275000	36.5	1000.0	9.000	On	L1	9.9	19.5	56.0
1.788000	35.6	1000.0	9.000	On	L1	9.8	20.4	56.0
2.044500	34.0	1000.0	9.000	On	L1	9.8	22.0	56.0
2.805000	37.6	1000.0	9.000	On	L1	9.7	18.4	56.0
3.066000	37.9	1000.0	9.000	On	L1	9.7	18.1	56.0
3.831000	34.7	1000.0	9.000	On	L1	9.7	21.3	56.0
4.560000	36.3	1000.0	9.000	On	L1	9.7	19.7	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.289500	39.8	1000.0	9.000	On	L1	10.0	10.8	50.5
0.447000	28.9	1000.0	9.000	On	L1	10.1	18.0	46.9
0.766500	33.7	1000.0	9.000	On	L1	10.0	12.3	46.0
1.275000	32.9	1000.0	9.000	On	L1	9.9	13.1	46.0
1.788000	31.4	1000.0	9.000	On	L1	9.8	14.6	46.0
2.296500	30.3	1000.0	9.000	On	L1	9.8	15.7	46.0
2.809500	33.9	1000.0	9.000	On	L1	9.7	12.1	46.0
3.061500	33.7	1000.0	9.000	On	L1	9.7	12.3	46.0
3.624000	31.2	1000.0	9.000	On	L1	9.7	14.8	46.0
4.564500	30.7	1000.0	9.000	On	L1	9.7	15.3	46.0



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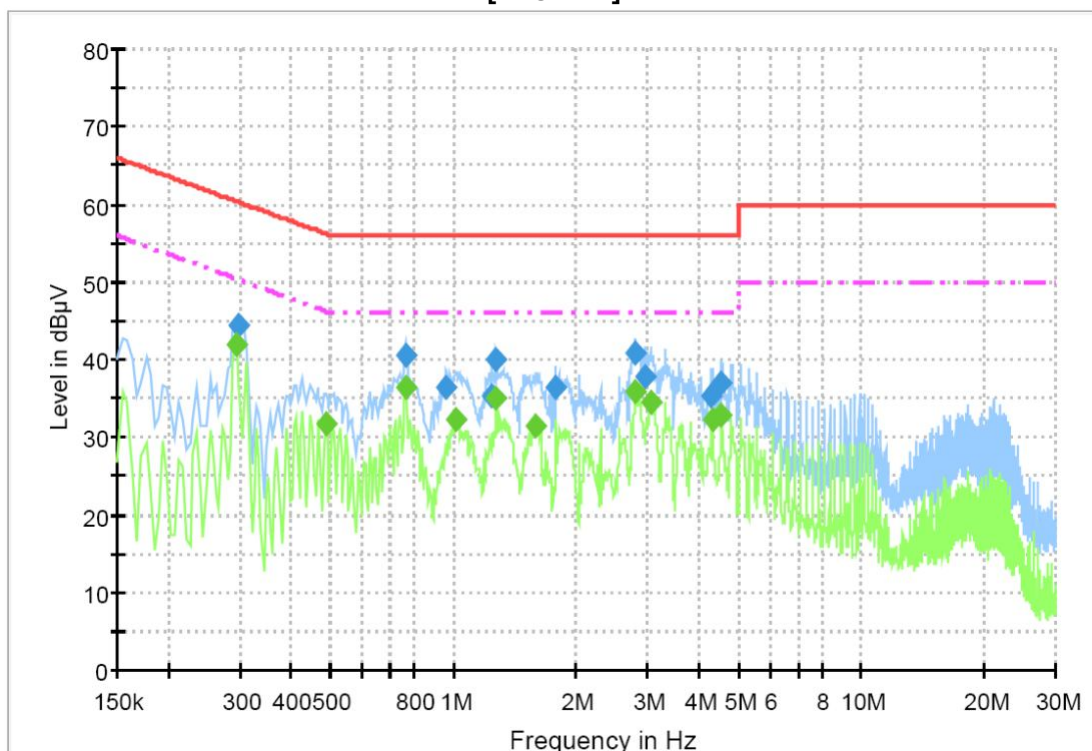
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[NEUTRAL]



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.298500	44.4	1000.0	9.000	On	N	10.0	15.9	60.3
0.766500	40.7	1000.0	9.000	On	N	10.0	15.3	56.0
0.964500	36.4	1000.0	9.000	On	N	9.9	19.6	56.0
1.248000	35.4	1000.0	9.000	On	N	9.9	20.6	56.0
1.275000	39.9	1000.0	9.000	On	N	9.9	16.1	56.0
1.783500	36.3	1000.0	9.000	On	N	9.8	19.7	56.0
2.809500	40.8	1000.0	9.000	On	N	9.7	15.2	56.0
2.949000	37.8	1000.0	9.000	On	N	9.7	18.2	56.0
4.290000	35.4	1000.0	9.000	On	N	9.7	20.6	56.0
4.551000	36.9	1000.0	9.000	On	N	9.7	19.1	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.294000	41.9	1000.0	9.000	On	N	10.0	8.5	50.4
0.487500	31.7	1000.0	9.000	On	N	10.1	14.5	46.2
0.766500	36.3	1000.0	9.000	On	N	10.0	9.7	46.0
1.014000	32.2	1000.0	9.000	On	N	9.9	13.8	46.0
1.275000	35.1	1000.0	9.000	On	N	9.9	10.9	46.0
1.599000	31.4	1000.0	9.000	On	N	9.8	14.6	46.0
2.809500	36.0	1000.0	9.000	On	N	9.7	10.0	46.0
3.061500	34.4	1000.0	9.000	On	N	9.7	11.6	46.0
4.339500	32.4	1000.0	9.000	On	N	9.7	13.6	46.0
4.551000	32.9	1000.0	9.000	On	N	9.7	13.1	46.0



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APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Due Date
1	Signal Analyzer	Agilent	N9020A	MY48011598	2013-11-08
2	Spectrum Analyzer	Rohde & Schwarz	FSP-30	100994	2013-11-08
3	EMI Test Receiver	Rohde & Schwarz	ESCI7	100814	2013-12-14
4	EMI Test Receiver	Rohde & Schwarz	ESCI7	100816	2013-12-14
5	Trilog Broadband Antenna	SCHWARZBECK	VULB 9161 SE	9161-4133	2014-06-11
6	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-125	2014-06-06
7	Attenuator	HP	8498A	1801A06913	2013-11-09
8	EPM Series Power Meter	HP	E4418A	GB38272734	2013-11-08
9	Power Sensor	HP	8487A	3318A03524	2013-07-10
10	Audio Analyzer	HP	8903B	2747A03432	2013-11-08
11	ESG-D Series Signal Generator	Agilent	E4432B	US40054094	2013-11-08
12	SYNTHESIZED SWEEPER	HP	8341B	2819A01563	2013-11-08
13	Attenuator	HP	8494A	3308A33351	2013-11-09
14	Temp&Humi Chamber	Kunpoong	JT-TH-556-1	9QE5-002	2014-01-16
15	DC POWER SUPPLY	Agilent	E3632A	MY40011638	2013-11-08
16	Horn Antenna	ETS-Lindgren	3115	00078895	2015-02-28
17	Horn Antenna	ETS-Lindgren	3116	00062916	2015-03-20
18	Dipole Antenna	SCHWARZBECK	VHA 9103	VHA91032557	2013-11-04
19	Dipole Antenna	SCHWARZBECK	UHA 9105	UHA91052417	2013-11-04
20	OPT H64 AMPLIFIER	HP	8447F	3113A06814	2014-03-21
21	PREAMPLIFIER	Agilent	8449B	3008A02307	2013-11-09
22	Radio Communication Tester	Rohde & Schwarz	CMU200	106765	2014-02-04
23	LISN	Rohde & Schwarz	ENV216	101235	2013-08-06
24	LISN	Rohde & Schwarz	ENV216	101236	2013-08-06
25	DC POWER SUPPLY	Agilent	E3632A	MY40011638	2013-11-08
26	EMI Test Receiver	Rohde & Schwarz	ESCI3	100032	2014-02-04
27	6dB Attenuator	R&S	DNF	272.4110.50	2013-11-09
28	AMPLIFIER	Sonoma Instrument Co.	310	291721	2014-03-21
29	EMI Test Receiver	Rohde & Schwarz	ESU40	100336	2013-06-29
30	Signal Generator	Rohde & Schwarz	SMB100A	175528	2013-10-08
31	Band Reject Filter	Wainwright Instruments GmbH	WRCGV 2400/2483-2375/2505-50/10EE	2	2013-09-11