

FCC Co-Location Test Report

FCC ID : I88WAC6502D-E
Equipment : 802.11 ac Unified Pro Access Point
Model No. : WAC6502D-S, WAC6502D-E
Brand Name : ZyXEL
Applicant : ZyXEL Communications Corporation
Address : No. 2, Gongye E. 9th Road, Hsinchu Science
Park, Hsinchu, Taiwan
Standard : 47 CFR FCC Part 15.247
47 CFR FCC Part 15.407
Received Date : Dec. 03, 2015
Tested Date : Dec. 25 ~ Dec. 31, 2015

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:



Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR5D0302CO	Rev. 01	Initial issue	Mar. 31, 2016

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.247(d) 15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 2793.00MHz 52.68 (Margin -1.32dB) – AV	Pass

1 General Description

1.1 Information

This report is prepared for FCC class II Permissive change.

This report is issued as a supplementary report to the original ICC project no. 491801. The modification is concerned as complying with New U-NII rule requirement.

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
ZyXEL	WAC6502D-S	802.11 ac Unified Pro Access Point	With internal antenna
	WAC6502D-E		With external antenna

1.1.2 Specification

Operating Frequency	802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz 5745 MHz ~ 5825 MHz
Modulation Type	802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n/ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

1.1.3 Antenna Details

Ant. No.	Type	Antenna Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)					Remark
			2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850	
1	Dipole	RSMA	5	7	7	7	7	For WAC6502D-E
2	Dipole	IPEX	4	6	6	6	6	For WAC6502D-S

Note:

- The antenna connector of PCB board of EUT is IPEX.
- WAC6502D-E has a RSMA connector jack to connect antenna and PCB board of EUT.

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	<p>1. AC Adapter (support unit only.) Brand: DVE Model: DSA-24CA-12 120120 Rating: I/P: 100-240Vac, 50/60Hz, 0.8A O/P: 12Vdc, 2A</p>
	<p>2. POE Injector (support unit for radiated emission test only.) Brand: ZyXEL Model: PoE12-HP Rating: I/P: 100-240V~, 50/60Hz, 1.5A max. O/P: 48Vdc, 42.1W</p>
	<p>3. POE Injector (support unit for conducted emission only.) Brand: PowerDsine 3001GC Model: E018205D G Rating: I/P: 100-240V~, 50/60Hz, 0.5A O/P: 48Vdc, 0.35A</p>

1.1.5 Accessories

N/A

1.2 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 13, 2015	Dec. 12, 2016
Receiver	R&S	ESR3	101658	Nov. 04, 2015	Nov. 03, 2016
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 20, 2015	Aug. 19, 2016
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 16, 2015	Dec. 15, 2016
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 04, 2015	Nov. 03, 2016
Loop Antenna	R&S	HFH2-Z2	11900	Nov. 16, 2015	Nov. 15, 2016
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 10, 2015	Dec. 09, 2016
Preamplifier	Burgeon	BPA-530	SN:100219	Sep. 10, 2015	Sep. 09, 2016
Preamplifier	Agilent	83017A	MY39501308	Oct. 02, 2015	Oct. 01, 2016
Preamplifier	EMC	EMC184045B	980192	Sep. 01, 2015	Aug. 31, 2016
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 10, 2015	Dec. 09, 2016
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 10, 2015	Dec. 09, 2016
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 10, 2015	Dec. 09, 2016
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 10, 2015	Dec. 09, 2016
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 10, 2015	Dec. 09, 2016
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.3 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

47 CFR FCC Part 15.407

ANSI C63.10-2013

FCC KDB 558074 D01 DTS Meas Guidance v03r04

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01

FCC KDB 644545 D03 Guidance for IEEE 802.11ac New Rules v01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$))

Measurement Uncertainty	
Parameters	Uncertainty
Radiated emission \leq 1GHz	± 3.66 dB
Radiated emission $>$ 1GHz	± 5.63 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH01-WS	22-23°C / 63%	Vincent Yeh

➤ FCC site registration No.: 657002

➤ IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Channel	Data rate (Mbps) / MCS	Test Configuration
Radiated Emissions ≤1GHz	2.4G 11b + 5G 11ac VHT40	CH6 + CH46	1Mbps + MCS 0	1, 2, 3, 4
Radiated Emissions >1GHz	2.4G 11b + 5G 11ac VHT40	CH6 + CH46	1Mbps + MCS 0	2, 4

NOTE:

1. The following antennas are used on this EUT:
 - 1) Configuration 1: model WAC6502D-S, AC Adapter mode.
 - 2) Configuration 2: model WAC6502D-S, POE mode.
 - 3) Configuration 3: model WAC6502D-E, AC Adapter mode
 - 4) Configuration 4: model WAC6502D-E, POE mode
2. The selected channel is the maximum power channel of each Wi-Fi mode

3 Transmitter Test Results

3.1 Unwanted Emissions into Restricted Frequency Bands

3.1.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.1.2 Test Procedures

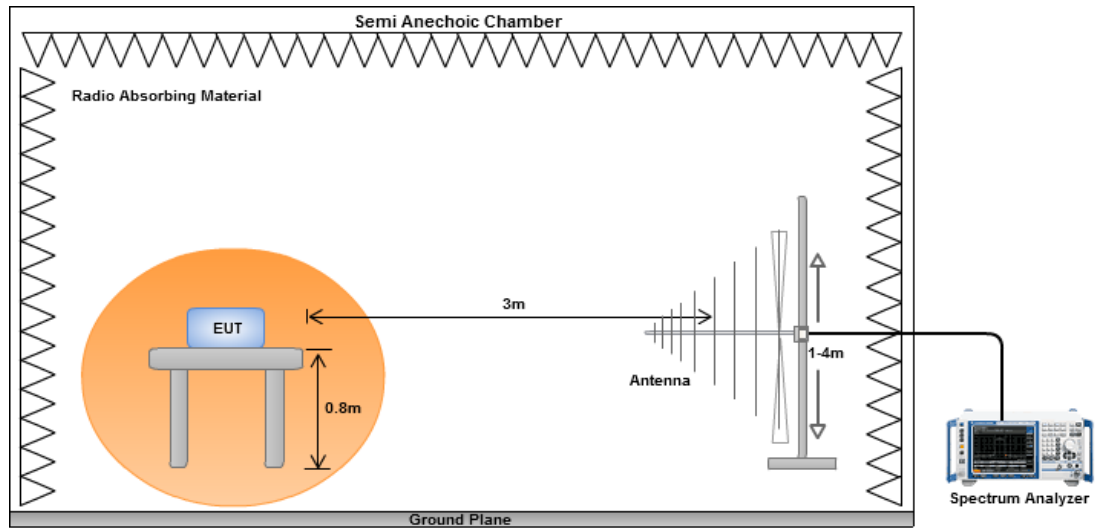
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

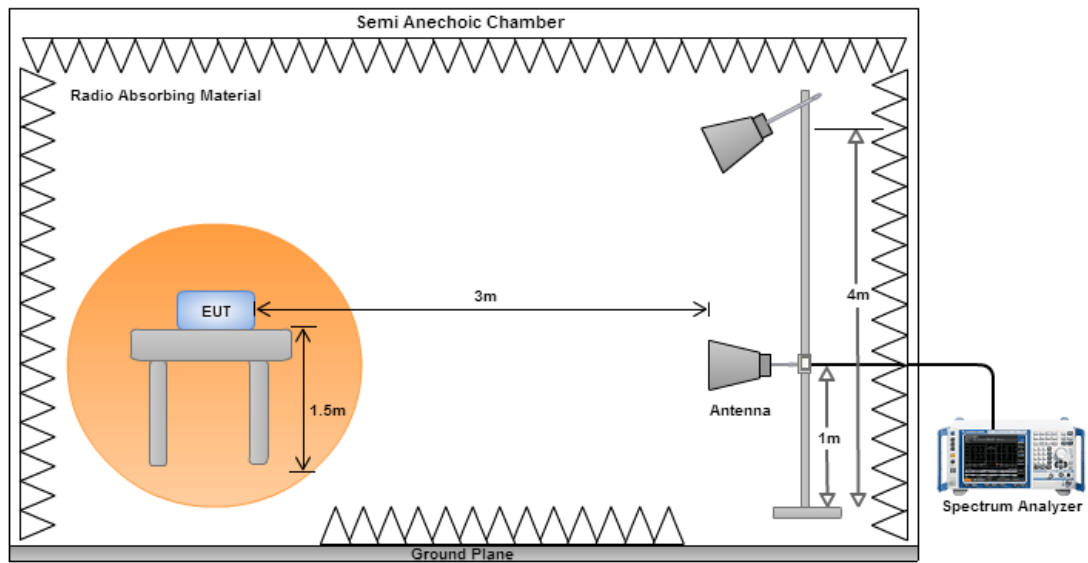
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.1.3 Test Setup

Radiated Emissions below 1 GHz



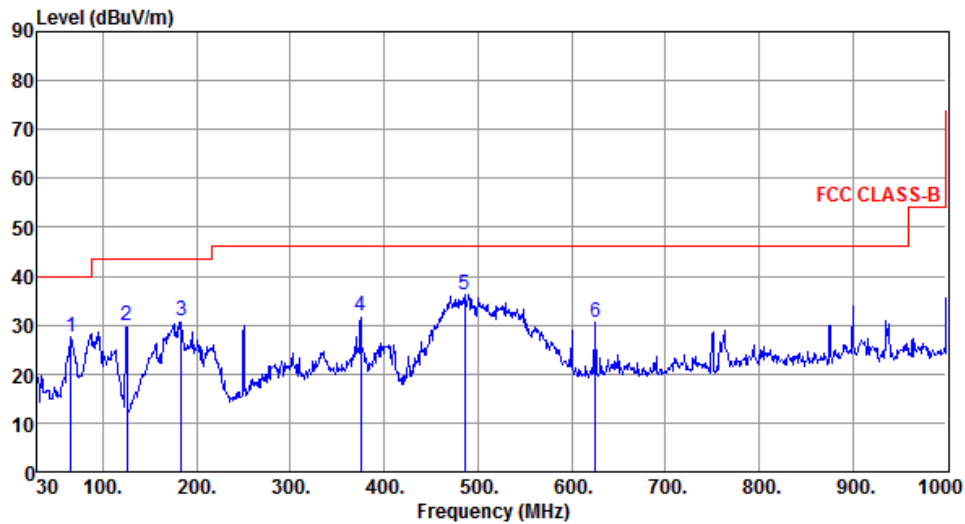
Radiated Emissions above 1 GHz



Configuration 1: model WAC6502D-S, AC Adapter mode

3.1.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	2.4G 11b + 5G 11ac VHT40	Test Freq. (MHz)	CH6 + CH46
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	65.68	27.62	40.00	-12.38	46.17	-18.55	Peak	---	---
2	125.25	29.74	43.50	-13.76	48.14	-18.40	Peak	---	---
3	183.44	30.75	43.50	-12.75	49.15	-18.40	Peak	---	---
4	375.46	31.72	46.00	-14.28	45.82	-14.10	Peak	---	---
5	485.82	36.25	46.00	-9.75	47.68	-11.43	Peak	---	---
6	625.64	30.67	46.00	-15.33	39.75	-9.08	Peak	---	---

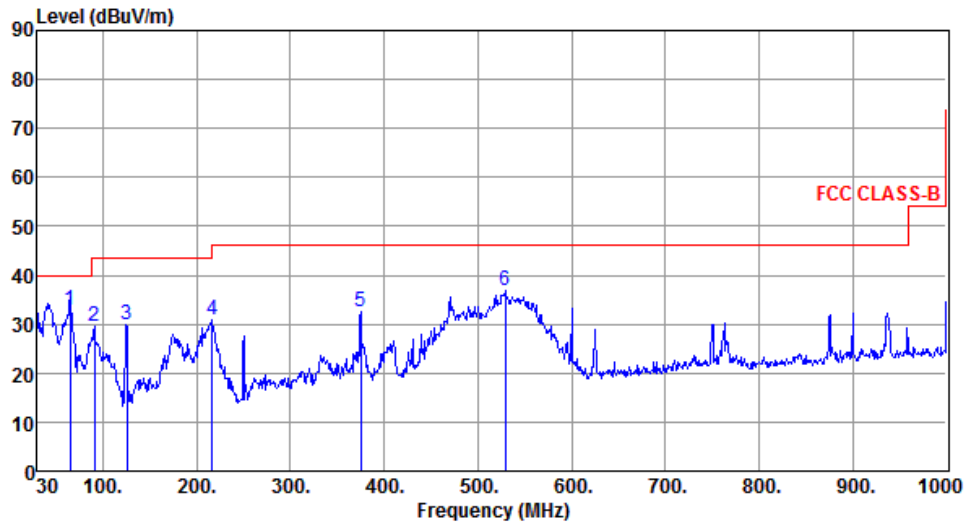
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	2.4G 11b + 5G 11ac VHT40	Test Freq. (MHz)	CH6 + CH46
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	64.88	32.85	40.00	-7.15	51.25	-18.40	QP	110	139
2	91.36	29.72	43.50	-13.78	52.48	-22.76	Peak	---	---
3	125.24	29.95	43.50	-13.55	48.35	-18.40	Peak	---	---
4	216.65	30.84	46.00	-15.16	49.96	-19.12	Peak	---	---
5	375.52	32.54	46.00	-13.46	46.64	-14.10	Peak	---	---
6	529.62	36.85	46.00	-9.15	47.58	-10.73	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

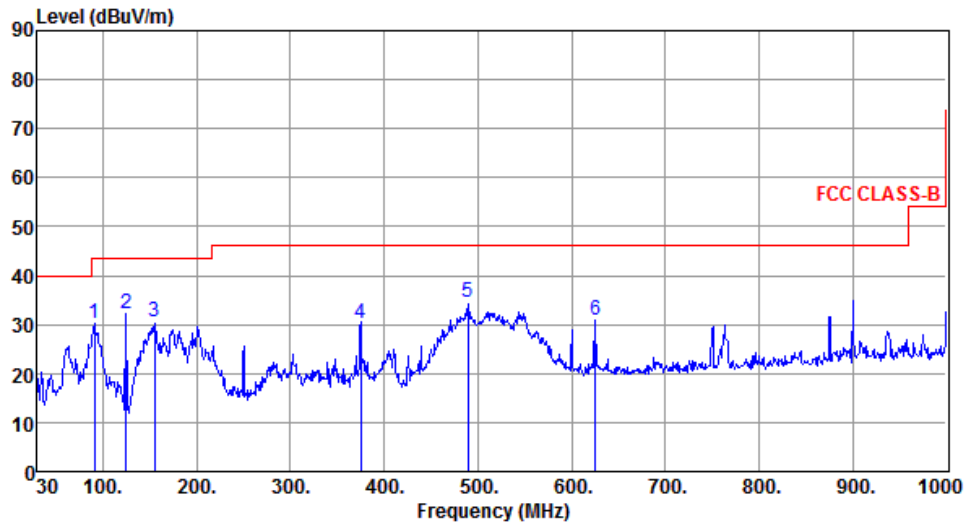
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Configuration 2: model WAC6502D-S, POE mode

3.1.5 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	2.4G 11b + 5G 11ac VHT40	Test Freq. (MHz)	CH6 + CH46
Polarization	Horizontal	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	91.24	30.26	43.50	-13.24	53.05	-22.79	Peak	---	---
2	125.14	32.23	43.50	-11.27	50.64	-18.41	Peak	---	---
3	155.24	30.45	43.50	-13.05	47.17	-16.72	Peak	---	---
4	375.34	30.26	46.00	-15.74	44.36	-14.10	Peak	---	---
5	489.68	34.42	46.00	-11.58	45.76	-11.34	Peak	---	---
6	625.65	30.91	46.00	-15.09	39.99	-9.08	Peak	---	---

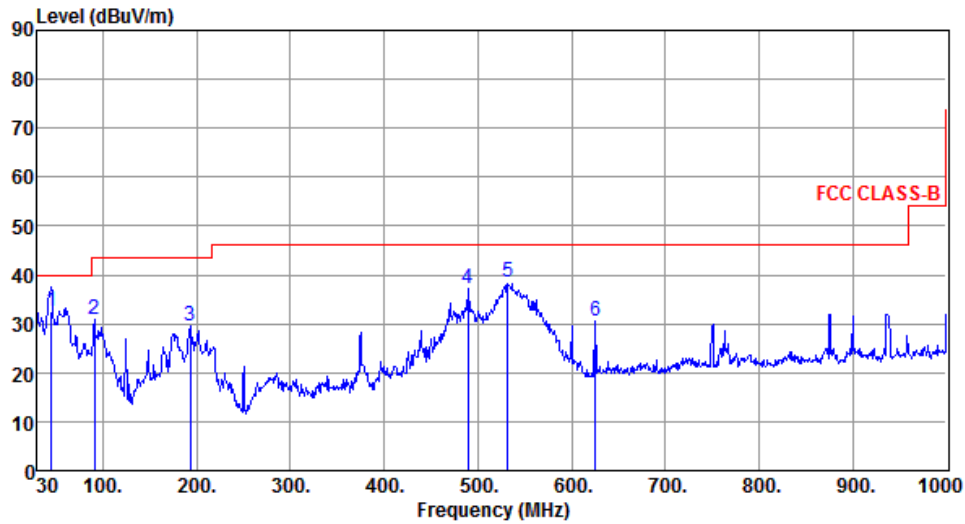
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	2.4G 11b + 5G 11ac VHT40	Test Freq. (MHz)	CH6 + CH46
Polarization	Vertical	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	44.85	32.45	40.00	-7.55	48.78	-16.33	QP	100	261
2	91.28	30.92	43.50	-12.58	53.70	-22.78	Peak	---	---
3	192.85	29.65	43.50	-13.85	48.81	-19.16	Peak	---	---
4	489.65	37.12	46.00	-8.88	48.46	-11.34	Peak	---	---
5	531.53	38.43	46.00	-7.57	49.14	-10.71	Peak	---	---
6	625.65	30.52	46.00	-15.48	39.60	-9.08	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

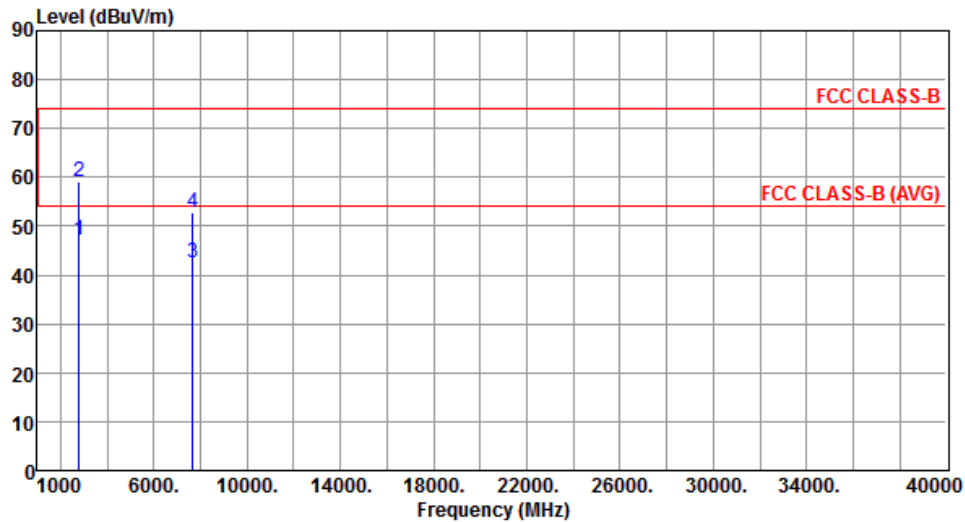
3.1.6 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation	2.4G 11b + 5G 11ac VHT40	Test Freq. (MHz)	CH6 + CH46
Polarization	Horizontal	Test Configuration	2

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2793.00	52.68	54.00	-1.32	54.40	-1.72	Average	---	---
2	2793.00	65.88	74.00	-8.12	67.60	-1.72	Peak	---	---
3	7667.00	45.69	54.00	-8.31	36.91	8.78	Average	---	---
4	7667.00	56.48	74.00	-17.52	47.70	8.78	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	2.4G 11b + 5G 11ac VHT40	Test Freq. (MHz)	CH6 + CH46
Polarization	Vertical	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2793.00	47.25	54.00	-6.75	48.97	-1.72	Average	---	---
2	2793.00	58.96	74.00	-15.04	60.68	-1.72	Peak	---	---
3	7667.00	42.65	54.00	-11.35	33.87	8.78	Average	---	---
4	7667.00	52.84	74.00	-21.16	44.06	8.78	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

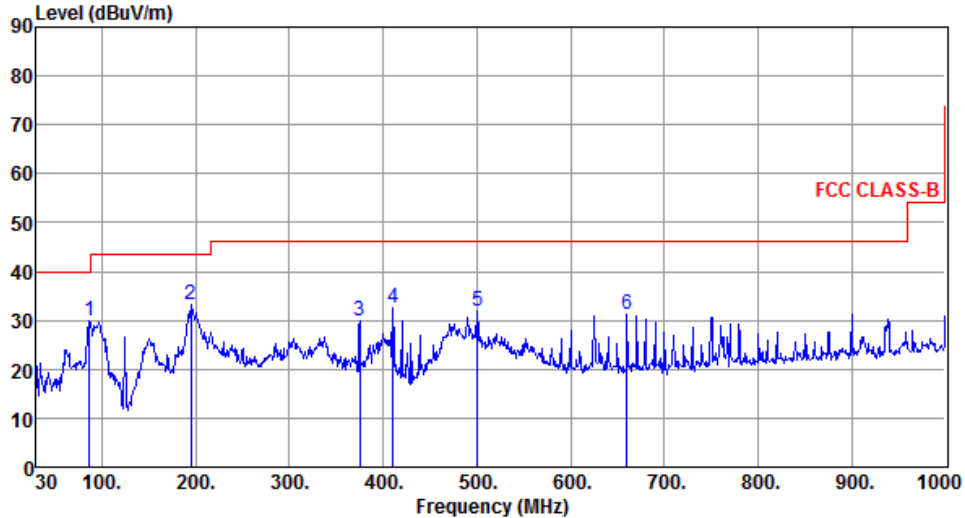
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Configuration 3: model WAC6502D-E, AC Adapter mode

3.1.7 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	2.4G 11b + 5G 11ac VHT40	Test Freq. (MHz)	CH6 + CH46
Polarization	Horizontal	Test Configuration	3

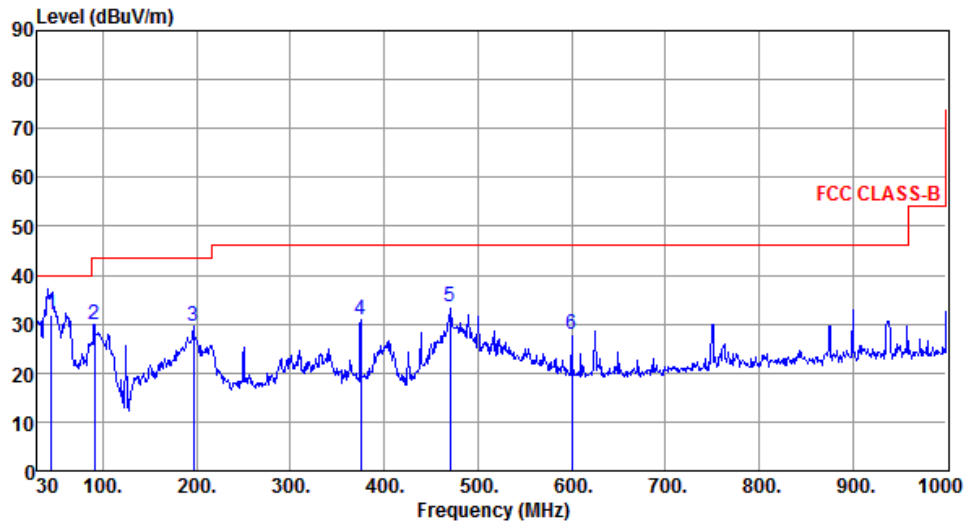


The graph displays the radiated unwanted emissions for the WAC6502D-E model in AC Adapter mode. The y-axis represents the Level in dBuV/m, ranging from 0 to 90. The x-axis represents the Frequency in MHz, ranging from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 40 dBuV/m from 30 MHz to 100 MHz, 45 dBuV/m from 100 MHz to 1000 MHz, and 70 dBuV/m at 1000 MHz. The blue line shows the measured emission level, with six specific peaks labeled 1 through 6. The table below provides the detailed data for these peaks.

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	86.35	29.84	40.00	-10.16	52.20	-22.36	Peak	---	---
2	194.82	33.26	43.50	-10.24	52.45	-19.19	Peak	---	---
3	375.44	29.86	46.00	-16.14	43.96	-14.10	Peak	---	---
4	410.35	32.53	46.00	-13.47	45.69	-13.16	Peak	---	---
5	500.56	31.91	46.00	-14.09	43.02	-11.11	Peak	---	---
6	660.44	31.29	46.00	-14.71	39.83	-8.54	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
 Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	2.4G 11b + 5G 11ac VHT40	Test Freq. (MHz)	CH6 + CH46
Polarization	Vertical	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	44.91	31.95	40.00	-8.05	48.27	-16.32	QP	100	196
2	91.24	29.95	43.50	-13.55	52.74	-22.79	Peak	---	---
3	196.88	29.63	43.50	-13.87	48.86	-19.23	Peak	---	---
4	375.44	30.81	46.00	-15.19	44.91	-14.10	Peak	---	---
5	470.45	33.43	46.00	-12.57	45.17	-11.74	Peak	---	---
6	600.46	27.82	46.00	-18.18	37.33	-9.51	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

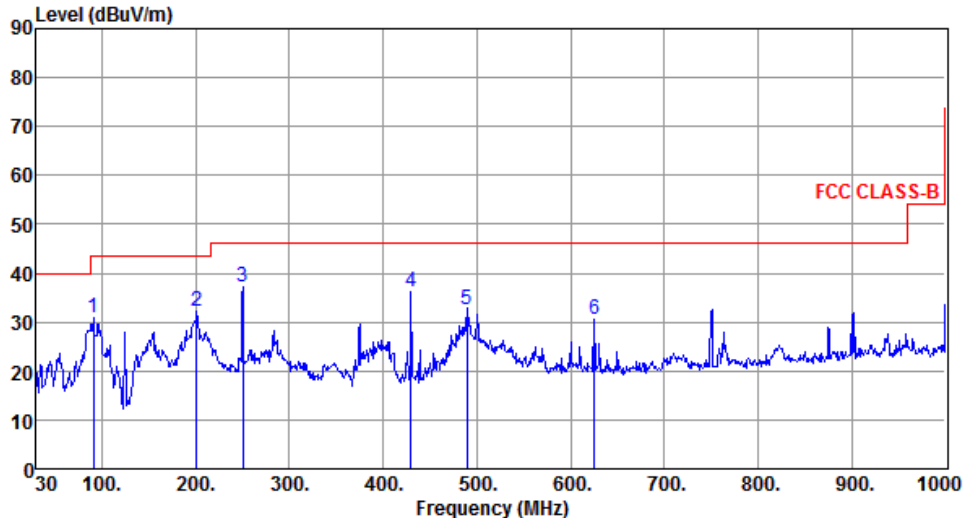
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Configuration 4: model WAC6502D-E, POE mode

3.1.8 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	2.4G 11b + 5G 11ac VHT40	Test Freq. (MHz)	CH6 + CH46
Polarization	Horizontal	Test Configuration	4

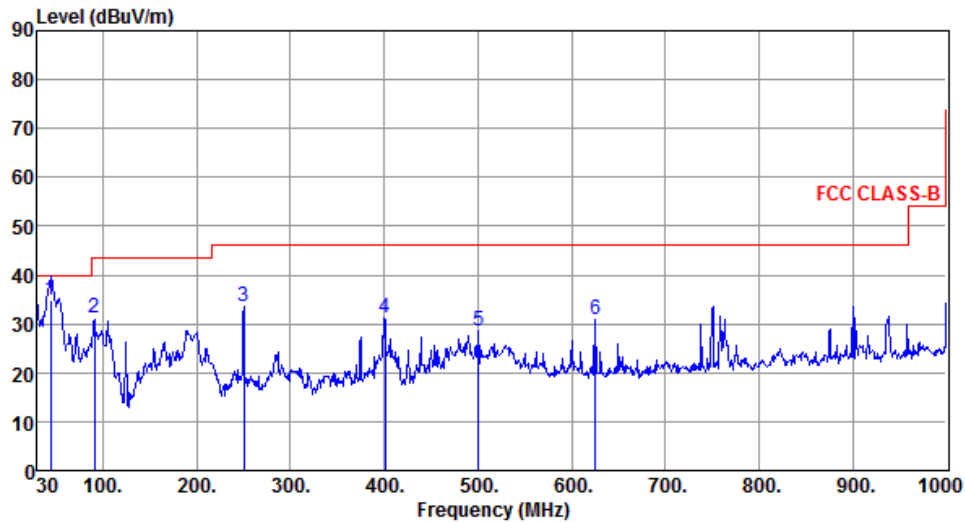


The graph displays the emission level in dBuV/m on the y-axis (0 to 90) against frequency in MHz on the x-axis (30 to 1000). A red line represents the FCC CLASS-B limit, which is 40 dBuV/m from 30 to 100 MHz, 45 dBuV/m from 100 to 1000 MHz, and 55 dBuV/m from 1000 to 10000 MHz. Six peaks are identified and numbered 1 through 6. The table below provides the detailed data for these peaks.

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	91.25	30.92	43.50	-12.58	53.70	-22.78	Peak	---	---
2	200.65	32.15	43.50	-11.35	51.44	-19.29	Peak	---	---
3	250.36	37.25	46.00	-8.75	54.96	-17.71	Peak	---	---
4	429.53	36.13	46.00	-9.87	48.81	-12.68	Peak	---	---
5	489.69	32.66	46.00	-13.34	44.00	-11.34	Peak	---	---
6	625.49	30.55	46.00	-15.45	39.63	-9.08	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
 Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	2.4G 11b + 5G 11ac VHT40	Test Freq. (MHz)	CH6 + CH46
Polarization	Vertical	Test Configuration	4



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	44.58	34.79	40.00	-5.21	51.14	-16.35	QP	106	18
2	91.28	31.24	43.50	-12.26	54.02	-22.78	Peak	---	---
3	250.34	33.66	46.00	-12.34	51.37	-17.71	Peak	---	---
4	400.68	31.26	46.00	-14.74	44.66	-13.40	Peak	---	---
5	500.58	28.62	46.00	-17.38	39.73	-11.11	Peak	---	---
6	625.62	30.85	46.00	-15.15	39.93	-9.08	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

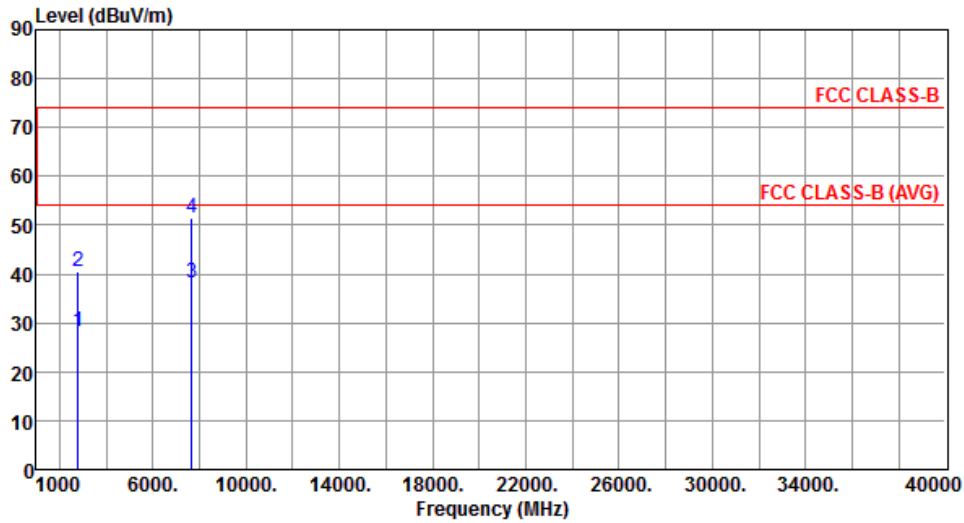
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.1.9 Transmitter Radiated Unwanted Emissions (Above 1GHz)

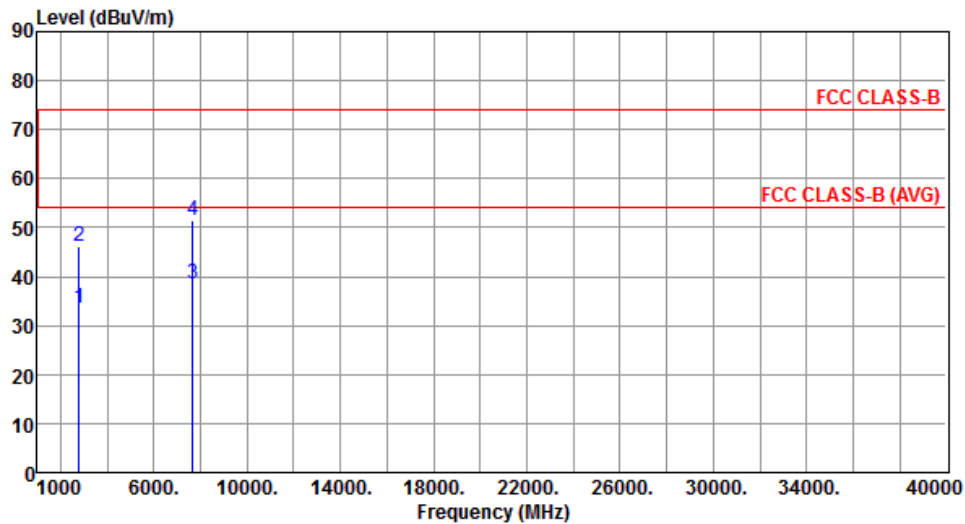
Modulation	2.4G 11b + 5G 11ac VHT40	Test Freq. (MHz)	CH6 + CH46
Polarization	Horizontal	Test Configuration	4



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2793.00	28.36	54.00	-25.64	30.08	-1.72	Average	---	---
2	2793.00	40.58	74.00	-33.42	42.30	-1.72	Peak	---	---
3	7667.00	38.24	54.00	-15.76	29.46	8.78	Average	---	---
4	7667.00	51.56	74.00	-22.44	42.78	8.78	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	2.4G 11b + 5G 11ac VHT40	Test Freq. (MHz)	CH6 + CH46
Polarization	Vertical	Test Configuration	4



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2793.00	33.45	54.00	-20.55	35.17	-1.72	Average	---	---
2	2793.00	46.28	74.00	-27.72	48.00	-1.72	Peak	---	---
3	7667.00	38.56	54.00	-15.44	29.78	8.78	Average	---	---
4	7667.00	51.45	74.00	-22.55	42.67	8.78	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

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