

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Report No.: RFCGJR-WTW-P23010147C

FCC ID: G95EWA322T

Referenced FCC ID: G95EWM322T

Product: Wireless Access Point

Brand: Vantiva

Model No.: EWA322TGFR2

Series Model: EWA322Tabcn

Received Date: 2023/7/24

Test Date: 2023/8/2 ~ 2023/8/8

Issued Date: 2023/8/11

Applicant: Vantiva USA LLC

Address: 4855 Peachtree Industrial Blvd. Suite 200 Norcross, Georgia 30092.

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan

FCC Registration / 788550 / TW0003

Designation Number:

Approved by:	Jeremy Lin	, Date:	2023/8/11	
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Jeremy Lin / Project Engineer

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Prepared by : Polly Chien / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFCGJR-WTW-P23010147C	Original release.	2023/8/11

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1 Certificate

Product: Wireless Access Point

Brand: Vantiva

Test Model: EWA322TGFR2

Series Model: EWA322Tabcn

Sample Status: Engineering sample

Applicant: Vantiva USA LLC

Test Date: 2023/8/2 ~ 2023/8/8

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Measurement ANSI C63.10-2013

procedure: KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

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2 **Summary of Test Results**

47 CFR FCC Part 15, Subpart E (Section 15.407)					
Clause	Test Item	Result	Remark		
15.407(a)(2)	26 dB Bandwidth	NA	Refer to Note 1		
15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.		
15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.		
15.407(e)	6 dB Bandwidth	NA	Refer to Note 1		
	Occupied Bandwidth	-	Reference only.		
15.407(g)	Frequency Stability	NA	Refer to Note 1		
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -19.92 dB at 24.57800 MHz		
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -7.5 dB at 65.89 MHz		
15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -4.2 dB at 11420.00 MHz		
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.		

Note:

- 1. RF Output Power, Power Spectral Density, Unwanted Emissions and conducted emission are performed for the addendum. Refer to original report for the other test data.
- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 **Measurement Uncertainty**

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.99 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.59 dB
Offwarted Effissions below 1 GHZ	30 MHz ~ 1 GHz	3.60 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.29 dB
Oliwanieu Ellissions above 1 GHZ	18 GHz ~ 40 GHz	2.29 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

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3 General Information

3.1 General Description of EUT

Product	Wireless Access Point	
Brand	Vantiva	
Test Model	EWA322TGFR2	
Series Model	EWA322Tabcn	
Model Difference	Refer to Note	
Status of EUT	Engineering sample	
Power Supply Rating	Refer to Note	
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax HE mode	
Modulation Technology	OFDM, OFDMA	
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 600Mbps 802.11ac: up to 3466.7Mbps 802.11ax: up to 4803.9Mbps	
Operating Frequency	5250 ~ 5320 MHz, 5500 ~ 5720 MHz	
Number of Channel	5250 ~ 5320 MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 4 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1 802.11ac (VHT160), 802.11ax (HE160): 1 5500 ~ 5720 MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 12 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 6 802.11ac (VHT80), 802.11ax (HE80): 3 802.11ac (VHT160), 802.11ax (HE160): 1	
Output Power	191.107 mW (22.81 dBm)	

Note:

1. This report is a supplementary report to the original BV CPS report no.: RFCGJR-WTW-P23010147A. The differences compared with the original design is as below. Exhibit prepared for FCC Spot Check Verification report, the format, test items and amount of spot-check test data are decided by applicant's engineering judgment, for more details please refer to declaration letter exhibit. Therefore, RF output power, power spectral density, unwanted emissions and conducted emission are performed for the addendum. Refer to original report for the other test data.

Difference:

- Changed FCC ID, model, brand name.
- ◆ FCC ID: G95EWA322T Layout and Firmware are same as FCC ID: G95EWM322T, but Zigbee, BT Chip (EFR32MG21A020F512), FXS Port are depopulated. But Wi-Fi part no change on the board.

All models are listed as below.

Model Name	Variable	Range of variable	Description
EWA322TGFR2,	abc	Each character cab be a-z or A-Z	For marketing purpose only(customer abbreviation).
EWA322Tabcn n 1-4 or blank For marketing purpose		For marketing purpose only(sales territory).	
–			

Note: From the above models, model: **EWA322TGFR2** was selected as representative model for the test and its data was recorded in this report.

3. The EUT uses following accessories.

AC Adapter 1			
Brand	Model	Part Number	Specification
Honor	ADS-42FI-12 12042EPCU-L	6322120A	AC Input : 100-120V, 50/60Hz DC Output : 12V, 3.5A DC Output Cable : 1.8m Plug : US

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4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna NO.	RF Chain NO.	Brand	Model Model	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type
				, ,			
				5.61	5.15~5.25GHz	Dipole	ipex(MHF)
DB1	5G core0	Technicolor	EWM322T/EWA322T	4.91	5.25~5.35GHz	Dipole	ipex(MHF)
	30 00100	recrimedia	LVVIVIOZZI/LVVAOZZI	5.45	5.47~5.725GHz	Dipole	ipex(MHF)
				5.47	5.725~5.85GHz	Dipole	ipex(MHF)
				5.96	5.15~5.25GHz	Dipole	ipex(MHF)
DDO	FC1	G core1 Technicolor	EWM322T/EWA322T	5.77	5.25~5.35GHz	Dipole	ipex(MHF)
DB2 5G core1	oG core i			5.91	5.47~5.725GHz	Dipole	ipex(MHF)
			5.53	5.725~5.85GHz	Dipole	ipex(MHF)	
				4.21	5.15~5.25GHz	Dipole	ipex(MHF)
DB3	EC coro?	5G core2 Technicolor	EWM322T/EWA322T	4.21	5.25~5.35GHz	Dipole	ipex(MHF)
נפט	5G corez			4.81	5.47~5.725GHz	Dipole	ipex(MHF)
				4.80	5.725~5.85GHz	Dipole	ipex(MHF)
				3.96	5.15~5.25GHz	Dipole	ipex(MHF)
	EC coro?	Toobniools	EWM322T/EWA322T	4.18	5.25~5.35GHz	Dipole	ipex(MHF)
DB4	5G core3	Technicolor		4.06	5.47~5.725GHz	Dipole	ipex(MHF)
			3.86	5.725~5.85GHz	Dipole	ipex(MHF)	

Directional Gain (dBi)	Frequency range
6.11	5.15~5.25GHz
6.08	5.25~5.35GHz
6.39	5.47~5.725GHz
6.48	5.725~5.85GHz

^{*} The detailed antenna information, please refer to the Test report-Antenna Spec.pdf.

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2. The EUT incorporates a MIMO function:

5 GHz Band					
Modulation Mode	TX & RX Co	onfiguration			
802.11a	4TX	4RX			
802.11n (HT20)	4TX	4RX			
802.11n (HT40)	4TX	4RX			
802.11ac (VHT20)	4TX	4RX			
802.11ac (VHT40)	4TX	4RX			
802.11ac (VHT80)	4TX	4RX			
802.11ac (VHT160)	4TX	4RX			
802.11ax (HE20)	4TX	4RX			
802.11ax (HE40)	4TX	4RX			
802.11ax (HE80)	4TX	4RX			
802.11ax (HE160)	4TX	4RX			

Note:

- 1. All of modulation mode support beamforming function except 802.11a modulation mode.
- 2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
- 3. The EUT not support partial RU.

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3.3 Channel List

For 5250 ~ 5320 MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency
58	5290 MHz

1 channels are provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
50	5250 MHz

For 5500 ~ 5720 MHz

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel Frequency	
100	5500 MHz	124 5620 MHz	
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	138	5690 MHz
122	5610 MHz		

1 channels are provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
114	5570 MHz

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Test Mode Applicability and Tested Channel Detail 3.4

The EUT is designed to be positioned on the X-plane only. Pre-Scan:

Following channel(s) was (were) selected for the final test as listed below:

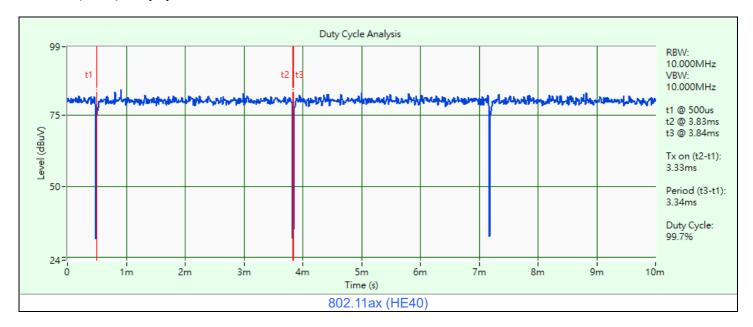
Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power / Power Spectral Density	802.11ax (HE40)	CDD	142	BPSK	MCS0
AC Power Conducted Emissions	802.11ax (HE40)	CDD	142	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ax (HE40)	CDD	142	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11ax (HE40)	CDD	142	BPSK	MCS0

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3.5 Duty Cycle of Test Signal

802.11ax (HE40): Duty cycle = 3.33 ms / 3.34 ms x 100% = 99.7%

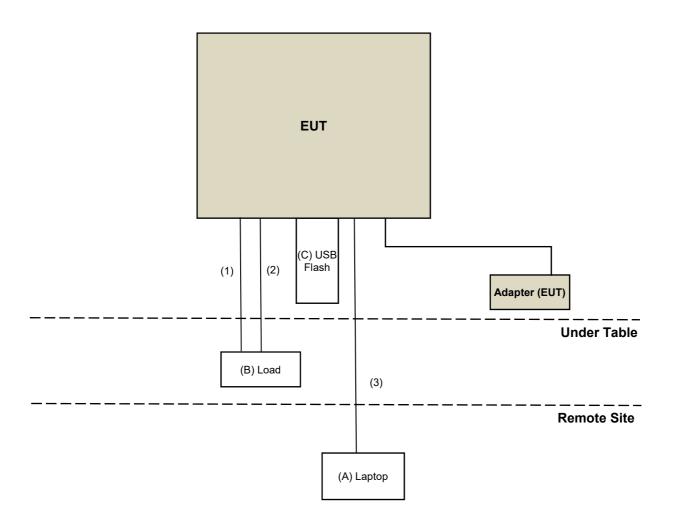




3.6 Test Program Used and Operation Descriptions

Controlling software accessMtool v 3.2.1.5 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
Α	Laptop	Lenovo	L440	R9-0GFJKK	NA	Provided by Lab
В	Load	NA	NA	NA	NA	Provided by Lab
С	USB Flash	SanDisk	SDDDC3-032G	NA	NA	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ45 Cable	3	1.5	No	0	Provided by Lab
2	RJ45 Cable	1	1.5	No	0	Provided by Lab
3	RJ45 Cable	1	10	No	0	Provided by Lab

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4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Peak Power Analyzer Keysight	8990B	MY51000485	2023/1/19	2024/1/18
Wideband Power Sensor	N1923A	MY58020002	2023/1/18	2024/1/17
Keysight	IN 1923A	MY58140009	2023/1/18	2024/1/17

Notes:

1. The test was performed in Oven room.

2. Tested Date: 2023/8/2

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Signal & Spectrum Analyzer R&S	FSV3044	101105	2023/2/22	2024/2/21
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.

2. Tested Date: 2023/8/2

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4.3 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
EMI Test Receiver R&S	ESCI	100613	2022/12/5	2023/12/4
LISN	ENV216	101826	2023/3/23	2024/3/22
R&S	ESH3-Z5	100311	2022/9/12	2023/9/11
RF Coaxial Cable Woken	5D-FB	Cable-cond1-01	2023/1/7	2024/1/6
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2022/8/31	2023/8/30

Notes:

1. The test was performed in HY - Conduction 1.

2. Tested Date: 2023/8/7

4.4 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn BV ADT	AT100	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-160	2022/10/20	2023/10/19
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Preamplifier Agilent	8447D	2944A10638	2023/5/7	2024/5/6
Preamplifier EMCI	EMC001340	980201	2022/9/23	2023/9/22
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2023/1/7	2024/1/6
RF Coaxial Cable Woken	8D-FB	Cable-CH9-01	2023/5/7	2024/5/6
Signal & Spectrum Analyzer R&S	FSW43	101867	2022/12/30	2023/12/29
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 4.

2. Tested Date: 2023/8/8

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Unwanted Emissions above 1 GHz 4.5

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn BV ADT	AT100	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
I I ama Antana a	BBHA 9120D	9120D-1169	2022/11/13	2023/11/12
Horn Antenna Schwarzbeck	BBHA 9170	9170-480	2022/11/13	2023/11/12
Schwarzbeck	DDNA 9170	BBHA9170243	2022/11/13	2023/11/12
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Notch Filter	BRM17690	004	2023/1/11	2024/1/10
Micro-Tronics	BRM50716	060	2023/1/11	2024/1/10
Preamplifier Agilent	8449B	3008A02367	2023/2/15	2024/2/14
Preamplifier EMCI	EMC 184045	980116	2022/10/1	2023/9/30
RF Coaxial Cable	EMC102-KM-KM-600	150928	2023/7/8	2024/7/7
EMCI	EMC102-KM-KM-3000	150929	2023/7/8	2024/7/7
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	2023/1/7	2024/1/6
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104& EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	2023/1/7	2024/1/6
Signal & Spectrum Analyzer R&S	FSW43	101867	2022/12/30	2023/12/29
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

The test was performed in HY - 966 chamber 4.
 Tested Date: 2023/8/2

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5 Limits of Test Items

5.1 RF Output Power

Operation Band	Operation Band Limit	
U-NII-2C	250 mW (24 dBm) or 11 dBm+10 log B*	
U-NII-3	1 Watt (30 dBm)	

^{*}B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \le 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \ge 5$.

For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

5.2 Power Spectral Density

Operation Band	Limit
U-NII-2C	11 dBm/MHz
U-NII-3	30 dBm/500 kHz

5.3 AC Power Conducted Emissions

Fraguency (MHZ)	Conducted Limit (dBuV)		
Frequency (MHz)	Quasi-peak	Average	
0.15 - 0.5	66 - 56	56 - 46	
0.50 - 5.0	56	46	
5.0 - 30.0	60	50	

Notes:

- 1. The lower limit shall apply at the transition frequencies.
- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.4 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

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5.5 Unwanted Emissions above 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

Notes:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To	Limit	
789033 D02 General UNII Test Procedure New Rules	Field Strength at 3 m	
v02r01	PK: 74 (dBµV/m)	AV: 54 (dBμV/m)

For transmitters operating in the 5.47-5.725 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m)

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
	PK: -27 (dBm/MHz) *1	PK: 68.2 (dBµV/m) *1
15.407(b)(4)(i)	PK: 10 (dBm/MHz) *2	PK: 105.2 (dBµV/m)*2
	PK: 15.6 (dBm/MHz) *3	PK: 110.8 (dBµV/m) ^{*3}
	PK: 27 (dBm/MHz) *4	PK: 122.2 (dBµV/m) *4

^{*1} beyond 75 MHz or more above of the band edge.

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

E =
$$\frac{1000000 \sqrt{30P}}{3}$$
 µV/m, where P is the eirp (Watts).

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^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

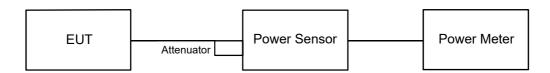
^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.



Test Arrangements

6.1 **RF Output Power**

6.1.1 Test Setup



For channel straddling:



6.1.2 Test Procedure

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

For channel straddling:

Method SA-1

- a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
- b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
- c. Sweep points \geq [2 \times span / RBW]. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- d. Sweep time = auto, trigger set to "free run".
- e. Trace average at least 100 traces in power averaging mode.
- Record the max value

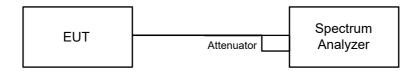
Note: When measuring straddle channel power, use compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

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6.2 Power Spectral Density

6.2.1 Test Setup



6.2.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

- a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
- b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
- c. Sweep points \geq [2 \times span / RBW]. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- d. Sweep time = auto, trigger set to "free run".
- e. Trace average at least 100 traces in power averaging mode.
- f. Record the max value

For specified measurement bandwidth 500 kHz:

Method SA-1

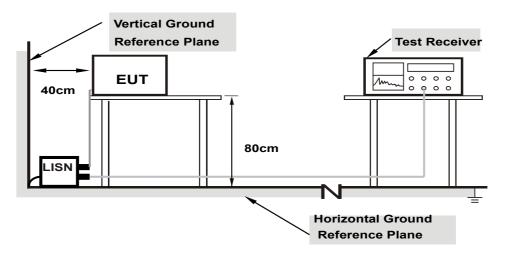
- a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
- b. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
- c. Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log(500 kHz/300 kHz)
- d. Sweep points \geq [2 \times span / RBW]. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- e. Sweep time = auto, trigger set to "free run".
- f. Trace average at least 100 traces in power averaging mode.
- g. Record the max value

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6.3 AC Power Conducted Emissions

6.3.1 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.3.2 Test Procedure

- a. The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

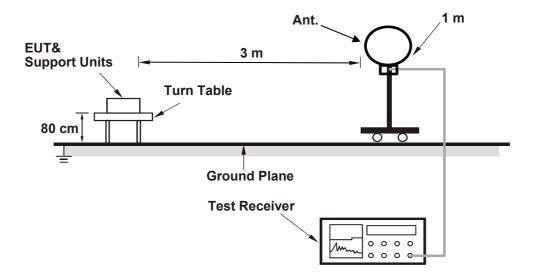
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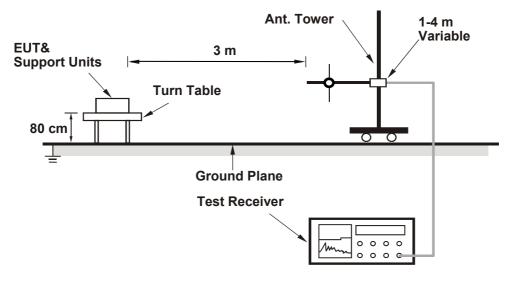
6.4 Unwanted Emissions below 1 GHz

6.4.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).



6.4.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
- 3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-peak(QP) detect function, and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

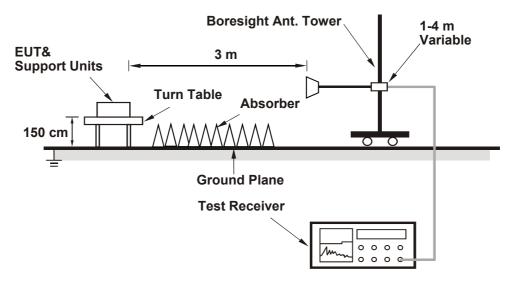
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP), at frequency (30MHz to 1 GHz).
- 2. All modes of operation were investigated and the worst-case emissions are reported.

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6.5 Unwanted Emissions above 1 GHz

6.5.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.5.2 Test Procedure

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- 2. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10 Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1 GHz.
- 3. All modes of operation were investigated and the worst-case emissions are reported.

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7 Test Results of Test Item

7.1 RF Output Power

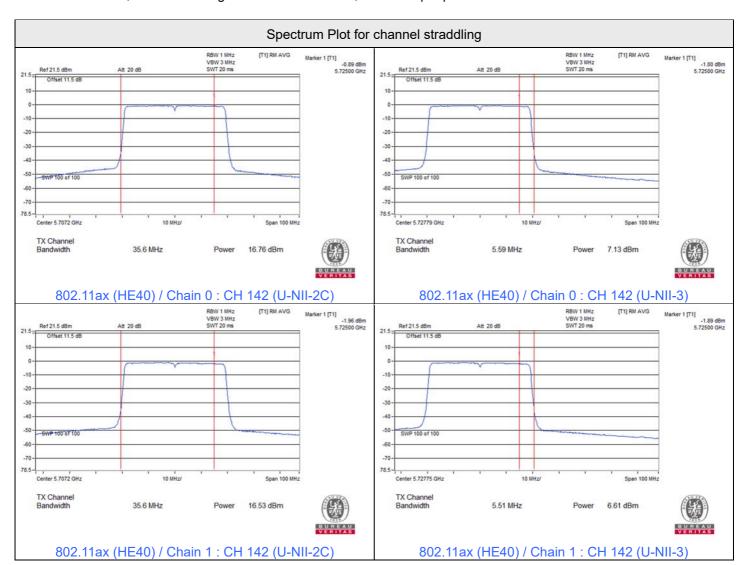
Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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802.11ax (HE40)

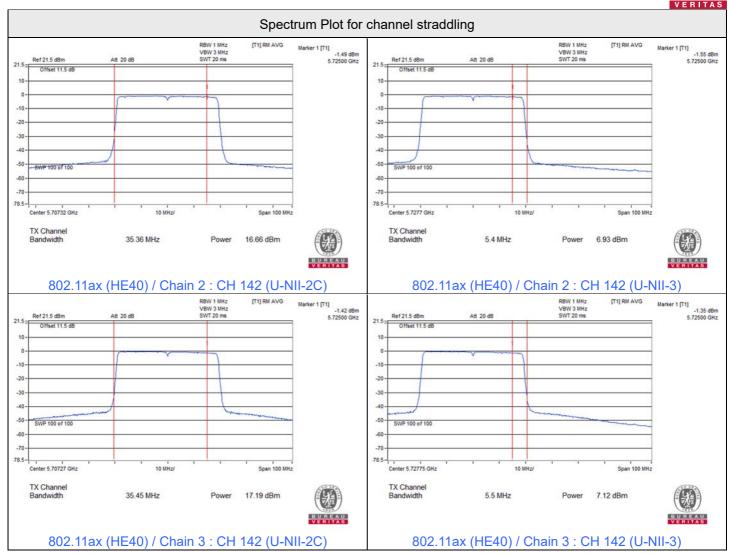
Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power	Total Power	Power Limit	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3	(mW)	(dBm)	(dBm)	Result
*142 (U-NII-2C)	5710	16.76	16.53	16.66	17.19	191.107	22.81	24	Pass
*142 (U-NII-3)	5710	7.13	6.61	6.93	7.12	19.83	12.97	30	Pass

Notes:

- 1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- 2. Directional gain is the maximum gain of antennas.
- 3. For U-NII-2C, the maximum gain is 5.91 dBi < 6 dBi, so the output power limit shall not be reduced.
- 4. For U-NII-3, the maximum gain is 5.53 dBi < 6 dBi, so the output power limit shall not be reduced.









7.2 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)					Max. PSD Limit	Test
		Chain 0	Chain 1	Chain 2	Chain 3	(dBm/MHz)	(dBm/MHz)	Result
142 (U-NII-2C)	5710	0.53	0.21	0.41	0.85	6.53	10.61	Pass

Notes:

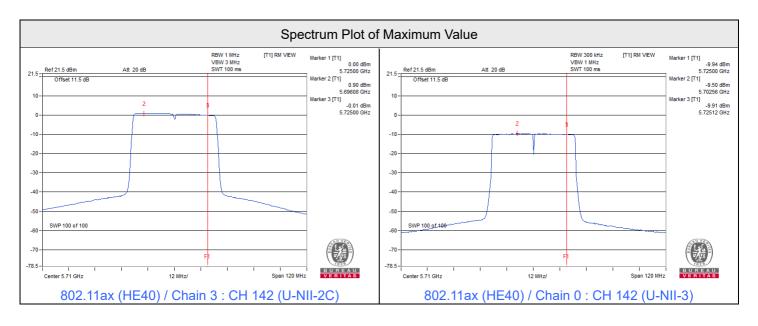
- 1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- 2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- 3. For U-NII-2C, the directional gain is 6.39 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.39-6) = 10.61 dBm/MHz.

802.11ax (HE40)

Chan. Freq.		F	PSD (dBn	n/300kHz)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
	(MHz)	Chain 0	Chain 1	Chain 2	Chain 3	,	,	,	
142 (U-NII-3)	5710	-9.94	-10.98	-10.58	-10.40	-4.44	-2.22	29.52	Pass

Notes:

- 1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- 2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- 3. For U-NII-3, the directional gain is 6.48 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.48-6) = 29.52 dBm/500kHz.



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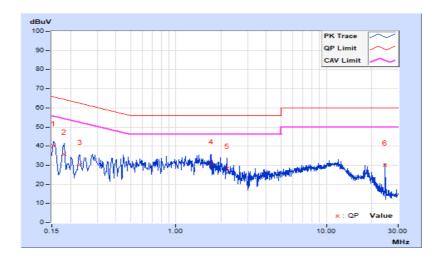
7.3 AC Power Conducted Emissions

RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1150 647 ~ 30 647	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

	Phase Of Power : Line (L)												
No	Frequency	Correction Factor		Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)			
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.			
1	0.15400	9.62	30.35	21.08	39.97	30.70	65.78	55.78	-25.81	-25.08			
2	0.18133	9.63	26.18	17.87	35.81	27.50	64.42	54.42	-28.61	-26.92			
3	0.22985	9.64	20.71	13.24	30.35	22.88	62.46	52.46	-32.11	-29.58			
4	1.71000	9.70	21.09	15.31	30.79	25.01	56.00	46.00	-25.21	-20.99			
5	2.18200	9.71	18.54	12.92	28.25	22.63	56.00	46.00	-27.75	-23.37			
6	24.57800	9.76	20.09	20.00	29.85	29.76	60.00	50.00	-30.15	-20.24			

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



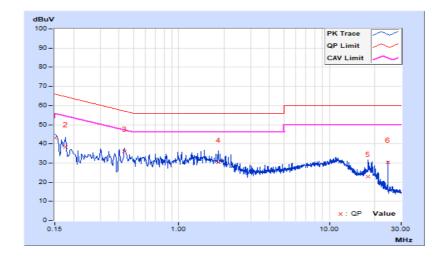


			VERITAS
RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

	Phase Of Power : Neutral (N)												
No	Frequency	Correction Factor		g Value uV)	Emission Level (dBuV)		Limit (dBuV)		Margin (dB)				
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.			
1	0.15000	9.62	33.31	21.47	42.93	31.09	66.00	56.00	-23.07	-24.91			
2	0.17800	9.63	28.79	20.00	38.42	29.63	64.58	54.58	-26.16	-24.95			
3	0.43400	9.67	26.45	16.44	36.12	26.11	57.18	47.18	-21.06	-21.07			
4	1.82600	9.72	20.58	14.01	30.30	23.73	56.00	46.00	-25.70	-22.27			
5	18.12200	9.87	12.87	5.33	22.74	15.20	60.00	50.00	-37.26	-34.80			
6	24.57800	9.88	20.29	20.20	30.17	30.08	60.00	50.00	-29.83	-19.92			

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



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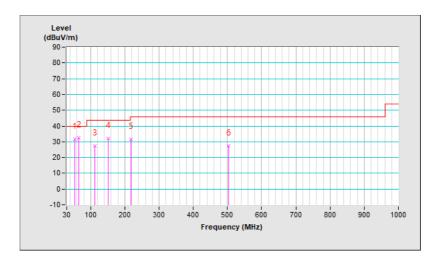
7.4 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 74% RH
Tested By	Rex Wang		

	Antenna Polarity & Test Distance : Horizontal at 3 m											
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)				
1	53.28	31.6 QP	40.0	-8.4	1.00 H	328	41.0	-9.4				
2	65.89	32.5 QP	40.0	-7.5	1.50 H	6	43.2	-10.7				
3	111.48	27.4 QP	43.5	-16.1	1.50 H	6	39.5	-12.1				
4	151.25	32.0 QP	43.5	-11.5	1.00 H	105	41.1	-9.1				
5	217.21	31.7 QP	46.0	-14.3	2.00 H	184	43.3	-11.6				
6	503.36	27.5 QP	46.0	-18.5	1.50 H	30	31.5	-4.0				

Remarks:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 5. The frequency range 9 kHz \sim 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



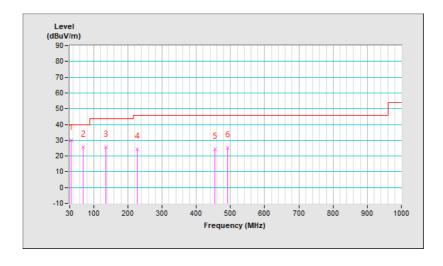


			VERITAS
RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 74% RH
Tested By	Rex Wang		

	Antenna Polarity & Test Distance : Vertical at 3 m											
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)				
1	34.85	29.8 QP	40.0	-10.2	1.00 V	191	40.5	-10.7				
2	69.77	25.6 QP	40.0	-14.4	1.50 V	169	36.8	-11.2				
3	135.73	25.6 QP	43.5	-17.9	2.00 V	13	35.4	-9.8				
4	227.88	24.3 QP	46.0	-21.7	1.00 V	104	35.9	-11.6				
5	453.89	24.2 QP	46.0	-21.8	1.50 V	145	28.9	-4.7				
6	491.72	25.4 QP	46.0	-20.6	1.50 V	107	29.7	-4.3				

Remarks:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 5. The frequency range 9 kHz \sim 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



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7.5 Unwanted Emissions above 1 GHz

RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 (¬H¬ ~ Δ() (¬H¬		PK: RB=1 MHz, VB=3 MHz AV: RB=1 MHz, VB=10 Hz
Input Power	1120 Vac 60 Hz	Environmental Conditions	20.9°C, 75.8% RH
Tested By	Rex Wang		

	Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	#5470.00	61.6 PK	68.2	-6.6	2.18 H	117	40.2	21.4	
2	*5710.00	116.0 PK			2.18 H	117	74.2	41.8	
3	*5710.00	102.4 AV			2.18 H	117	60.6	41.8	
4	#5850.00	62.1 PK	68.2	-6.1	2.18 H	117	39.6	22.5	
5	11420.00	65.1 PK	74.0	-8.9	3.67 H	114	38.0	27.1	
6	11420.00	49.6 AV	54.0	-4.4	3.67 H	114	22.5	27.1	
Antenna Polarity & Test Distance : Vertical at 3 m									
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)	
1	#5470.00	61.8 PK	68.2	-6.4	2.11 V	259	40.4	21.4	
2	*5710.00	117.8 PK			2.11 V	259	76.0	41.8	
3	*5710.00	105.3 AV			2.11 V	259	63.5	41.8	
4	#5850.00	62.3 PK	68.2	-5.9	2.11 V	259	39.8	22.5	
5	11420.00	65.3 PK	74.0	-8.7	2.86 V	296	38.2	27.1	

Remarks:

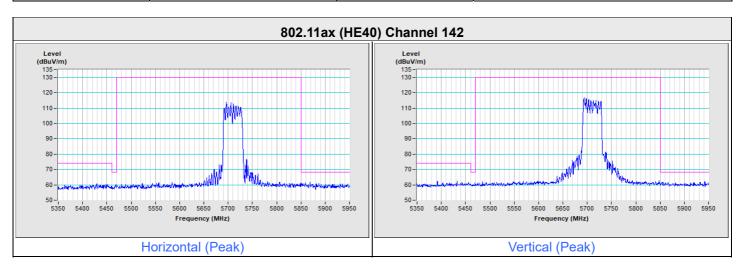
- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
- 6. " # ": The radiated frequency is out of the restricted band.

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Plot of Band Edge

Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz
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8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

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Information of the Testing Laboratories 9

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180 Fax: 886-2-26051924

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@bureauveritas.com Web Site: http://ee.bureauveritas.com.tw

The address and road map of all our labs can be found in our web site also.

--- END ---

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