

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
47 CFR FCC Part 15, Subpart E (Section 15.407)

Report No.: RFBARR-WTW-P24120359-7

FCC ID: RAS-MT7925B14LA

Product: 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card

Brand: MediaTek

Model No.: MT7925B14LA

Received Date: 2024/12/11

Test Date: 2025/3/20 ~ 2025/3/28

Issued Date: 2025/4/15

Applicant: MediaTek Inc.

Address: No. 1, Dusing 1st Rd., Hsinchu Science Park, Hsinchu City, 30078 Taiwan

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

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

FCC Registration / 723255 / TW2022

Designation Number:

Approved by:

Wen Yu / Assistant Manager

Date:

2025/4/15

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Prepared by : Phoenix Huang / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P24120359-7	Original release.	2025/4/15

1 Certificate

Product: 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7925B14LA

Sample Status: Engineering sample

Applicant: MediaTek Inc.

Test Date: 2025/3/20 ~ 2025/3/28

Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
47 CFR FCC Part 15, Subpart E (Section 15.407)

Measurement procedure: ANSI C63.10-2013

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.

2 Summary of Test Results

Standard / Clause	Test Item	Result	Remark
15.205 /15.209 /15.247(d) 15.205 /15.209 /15.247(d) 15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Meet the requirement of limit.
15.205 /15.209 /15.247(d) 15.205 /15.209 /15.247(d) 15.407(b) (1/2/3/4(i)/10) 15.407(b)(5)/15.407(b)(10) 15.407(b)(6)/15.407(b)(10)	Unwanted Emissions above 1 GHz	Pass	Meet the requirement of limit.
15.247(d)	Conducted Out of Band Emissions	Pass	Meet the requirement of limit.

Note: 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:

Parameter	Specification	Uncertainty (±)
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.4 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.0 dB
	18 GHz ~ 40 GHz	5.3 dB
Conducted Out of Band Emissions	9 kHz ~ 40 GHz	2.6 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	2TX 11be (WiFi7) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7925B14LA
Modulation Technology	WLAN: DSSS, OFDM, OFDMA BT-EDR: FHSS BT-LE: DTS
Operating Frequency	WLAN: 2.4 GHz: 2.412 GHz ~ 2.472 GHz 5 GHz: 5.18 GHz ~ 5.32 GHz, 5.5 GHz ~ 5.72 GHz, 5.745 GHz ~ 5.825 GHz 5.9 GHz: 5.815 GHz ~ 5.885 GHz 6 GHz: 5.955 GHz ~ 6.415 GHz 6.435 GHz ~ 6.525 GHz 6.535 GHz ~ 6.865 GHz 6.875 GHz ~ 7.115 GHz BT-EDR: 2.402 GHz ~ 2.48 GHz BT-LE: 2.402 GHz ~ 2.48 GHz

Note:

1. There are Bluetooth and WLAN (2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz) technology used for the EUT.
2. Simultaneously transmission combination.

Combination	Technology	
1	WLAN (5 GHz) (2TX)	Bluetooth
2	WLAN (5.9 GHz) (2TX)	Bluetooth
3	WLAN (6 GHz) (2TX)	Bluetooth
4	WLAN (2.4 GHz) (1TX)	WLAN (5 GHz) (1TX)
5	WLAN (2.4 GHz) (1TX)	WLAN (5.9 GHz) (1TX)
6	WLAN (2.4 GHz) (1TX)	WLAN (6 GHz) (1TX)

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

3. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.
4. The EUT support MRU mode is listed as below.

BW	Small size		Large size		
	52+26-tone MRU	106+26-tone MRU	484+242-tone MRU	996+484-tone MRU	996+484+242-tone MRU
20 MHz	v	v	-	-	-
40 MHz	v	v	-	-	-
80 MHz	v	v	v	-	-
160 MHz	v	v	v	v	v

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna Set	RF Chain NO.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain0	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4 ~ 2.4835 5.15 ~ 5.895 5.925 ~ 6.425 6.425 ~ 6.525 6.525 ~ 6.875 6.875 ~ 7.125	PIFA	i-pex(MHF)	200
	Chain1	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4 ~ 2.4835 5.15 ~ 5.895 5.925 ~ 6.425 6.425 ~ 6.525 6.525 ~ 6.875 6.875 ~ 7.125	PIFA	i-pex(MHF)	200
2	Chain0	INPAQ	RFFPA493517EMAB901	6.19	2.4 ~ 2.4835	PIFA	i-pex(MHF)	125
	Chain1	INPAQ	RFFPA493517EMAB901	6.19	2.4 ~ 2.4835	PIFA	i-pex(MHF)	125
3	Chain0	INPAQ	RFFPA494517EM5B901	8.37	5.15 ~ 5.925	PIFA	i-pex(MHF)	125
	Chain1	INPAQ	RFFPA494517EM5B901	8.37	5.15 ~ 5.925	PIFA	i-pex(MHF)	125
4	Chain0	INPAQ	RFFPA494217EM6B901	8.37	5.925 ~ 7.125	PIFA	i-pex(MHF)	125
	Chain1	INPAQ	RFFPA494217EM6B901	8.37	5.925 ~ 7.125	PIFA	i-pex(MHF)	125
5	Chain0	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925 ~ 6.425 6.425 ~ 6.525 6.525 ~ 6.875 6.875 ~ 7.125	PIFA	i-pex(MHF)	300
	Chain1	PSA	RFMTA421230IMMB701	-13.92 -13.91 -13.91 -14.46	5.925 ~ 6.425 6.425 ~ 6.525 6.525 ~ 6.875 6.875 ~ 7.125	PIFA	i-pex(MHF)	300

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

3.3 Test Mode Applicability and Tested Channel Detail

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

Test Item	Combination	Mode	Tested Channel
Unwanted Emissions below 1 GHz	1	802.11a	165
		BT-LE 2M	1
	2	802.11a	165
		BT-LE 2M	1
	3	802.11be (EHT80)	171
		BT-LE 2M	1
	4	802.11be (EHT80)	171
		BT-LE 2M	1
	5	802.11be (EHT80)	7
		BT-LE 2M	1
	6	802.11be (EHT80)	7
		BT-LE 2M	1
	7	802.11a	165
		802.11g	6
	8	802.11be (EHT80)	171
		802.11g	6
	9	802.11be (EHT80)	7
		802.11g	6
Unwanted Emissions above 1 GHz	1	802.11a	165
		BT-LE 2M	1
	2	802.11a	165
		BT-LE 2M	1
	3	802.11be (EHT80)	171
		BT-LE 2M	1
	4	802.11be (EHT80)	171
		BT-LE 2M	1
	5	802.11be (EHT80)	7
		BT-LE 2M	1
	6	802.11be (EHT80)	7
		BT-LE 2M	1
	7	802.11a	165
		802.11g	6
	8	802.11be (EHT80)	171
		802.11g	6
	9	802.11be (EHT80)	7
		802.11g	6

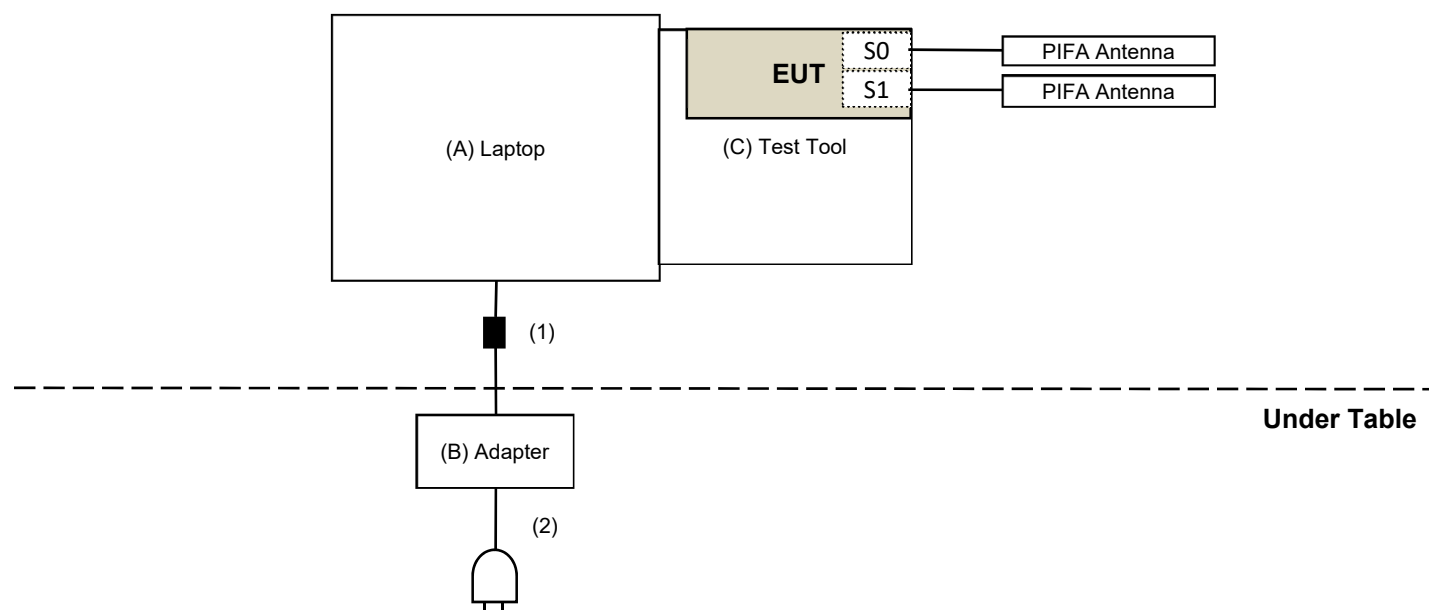
Test Item	Combination	Mode	Tested Channel
Conducted Out of Band Emissions	10	802.11a	165
		BT-LE 2M	1
	11	802.11be (EHT80)	171
		BT-LE 2M	1
	12	802.11be (EHT80)	7
		BT-LE 2M	1
	13	802.11g	6
		802.11a	165
	14	802.11g	6
		802.11be (EHT80)	171
Combination Mode:	15	802.11g	6
		802.11be (EHT80)	7
	1	WLAN 5 GHz(2TX)+BT (Antenna Set 2)	
	2	WLAN 5 GHz(2TX)+BT (Antenna Set 3)	
	3	WLAN 5.9 GHz(2TX)+BT (Antenna Set 2)	
	4	WLAN 5.9 GHz(2TX)+BT (Antenna Set 3)	
	5	WLAN 6 GHz(2TX)+BT (Antenna Set 2)	
	6	WLAN 6 GHz(2TX)+BT (Antenna Set 4)	
	7	WLAN 2.4 GHz+WLAN 5 GHz (1x1) (Antenna 2+Antenna 3)	
	8	WLAN 2.4 GHz+WLAN 5.9 GHz (1x1) (Antenna 2+Antenna 3)	
	9	WLAN 2.4 GHz+WLAN 6 GHz (1x1) (Antenna 2+Antenna 4)	
	10	WLAN 5 GHz(2TX)+BT	
	11	WLAN 5.9 GHz(2TX)+BT	
	12	WLAN 6 GHz(2TX)+BT	
	13	WLAN 2.4 GHz(1TX)+WLAN 5 GHz(1TX)	
	14	WLAN 2.4 GHz(1TX)+WLAN 5.9 GHz(1TX)	
	15	WLAN 2.4 GHz(1TX)+WLAN 6 GHz(1TX)	

3.4 Test Program Used and Operation Descriptions

Controlling software (QAtool_V16) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.5 Connection Diagram of EUT and Peripheral Devices

For Unwanted Emission test:



3.6 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Lenovo	L440	R90FM90G	N/A	Provided by Lab
B	Adapter	Lenovo	ADLX45DLC3A	N/A	N/A	Provided by Lab
C	Test Tool	Mediatek	MTK1849	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	No	1	Provided by Lab
2	AC Cable	1	1	No	0	Provided by Lab

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 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-361	2024/10/8	2025/10/7
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	2025/2/8	2026/2/7
Loop Antenna TESEQ	HLA 6121	63620	2024/10/17	2025/10/16
MXE EMI Receiver Agilent	N9038A	MY50010156	2024/6/5	2025/6/4
Preamplifier EMCI	EMC330N	980852	2025/2/8	2026/2/7
	EMC001340	980142	2025/2/17	2026/2/16
RF Coaxial Cable PEWC	8D	001	2025/2/8	2026/2/7
		966-3-2	2025/2/8	2026/2/7
		966-3-3	2025/2/8	2026/2/7
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2025/3/28

4.2 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-406	2024/11/10	2025/11/9
	BBHA 9170	9170-739	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY50010156	2024/6/5	2025/6/4
Preamplifier EMCI	EMC12630SE	980384	2025/1/14	2026/1/13
	EMC184045SE	980387	2024/8/8	2025/8/7
PXA Signal Analyzer Keysight	N9030B	MY57141948	2024/5/20	2025/5/19
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2025/1/24	2026/1/23
	EMC102-KM-KM-4000	200214	2025/1/24	2026/1/23
	EMC104-SM-SM-1500	180504	2025/1/18	2026/1/17
	EMC104-SM-SM-2000	180601	2025/1/18	2026/1/17
	EMC104-SM-SM-6000	210201	2025/1/18	2026/1/17
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2025/3/27 ~ 2025/3/28

4.3 Conducted Out of Band Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
PXA Signal Analyzer Keysight	N9030A	MY55410176	2024/6/12	2025/6/11
Software	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/3/20

5 Limits of Test Items

5.1 Unwanted Emissions below 1 GHz

For FCC 15.247:

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).

For FCC 15.407:

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).

5.2 Unwanted Emissions above 1 GHz

For FCC 15.247:

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.

For FCC 15.407 transmitters operating in the 5.150-5.850 GHz band:

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 v02r01	Field Strength at 3 m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)

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

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

^{*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.

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

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

For transmitters operating in the 5.850-5.925 GHz band:

- (i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.
- (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz.
- (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

Note:

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

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

For FCC 15.407 transmitters operating in the 5.925-7.125 GHz band:

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

Frequencies (MHz)	EIRP Limit	Equivalent Field Strength at 3 m
5925 MHz > F > 7125 MHz	Peak: -7 (dBm/MHz)	88.2 (dBuV/m)
	Average: -27 (dBm/MHz)	68.2 (dBuV/m)

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

5.3 Conducted Out of Band Emissions

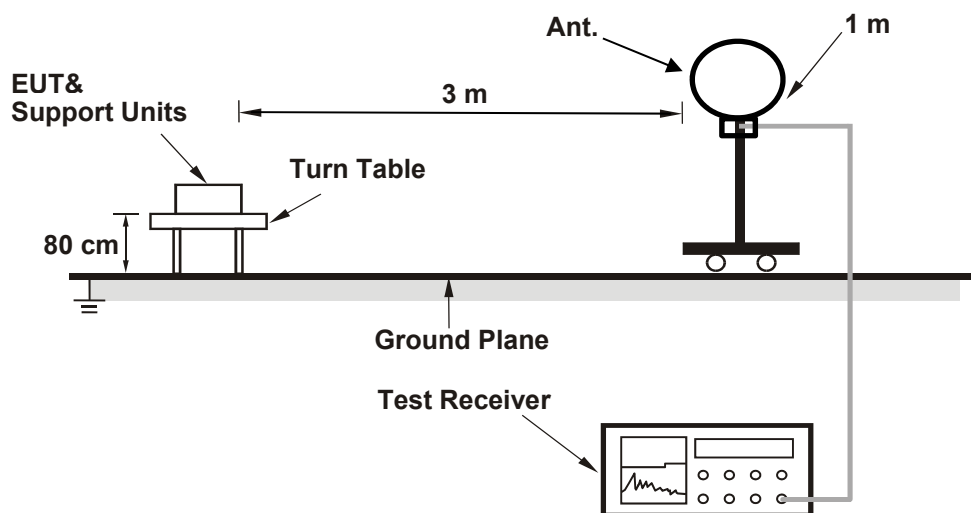
Below 30 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

6 Test Arrangements

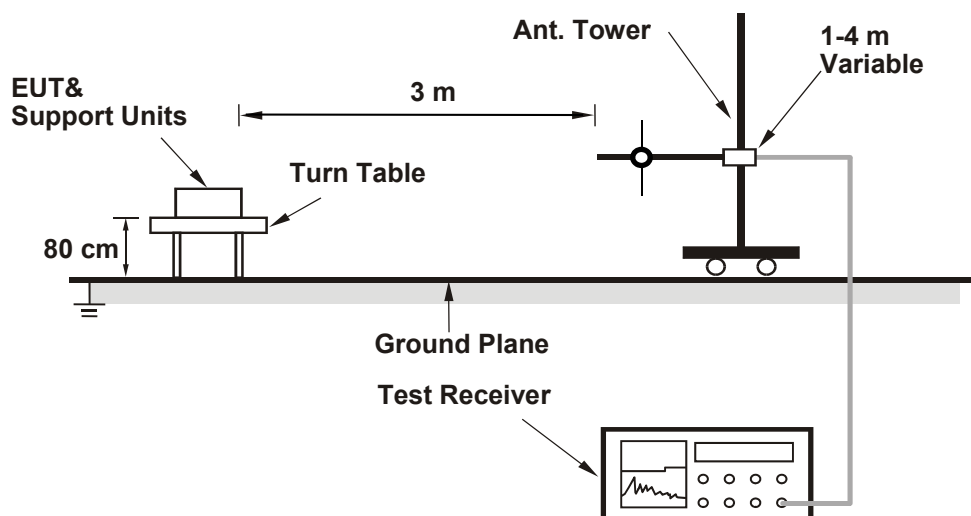
6.1 Unwanted Emissions below 1 GHz

6.1.1 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).

6.1.2 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

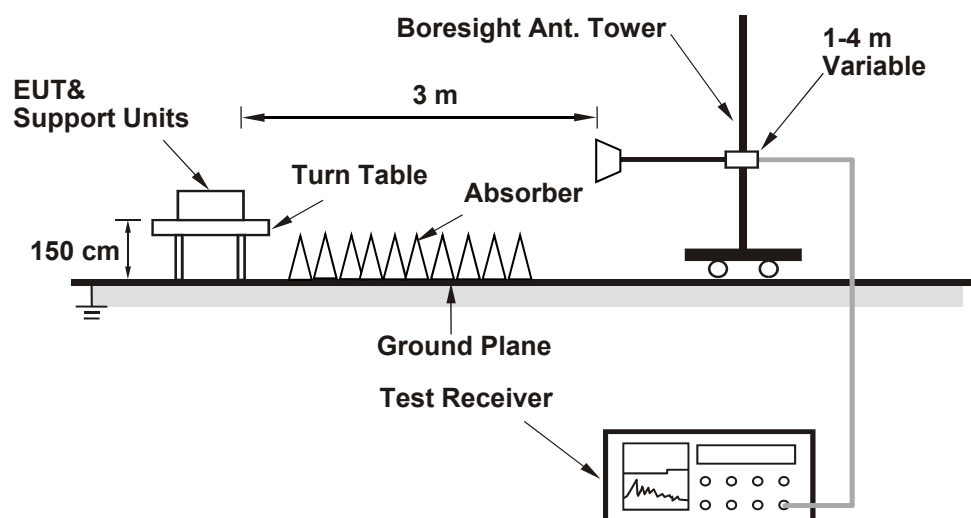
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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 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 below 1 GHz.
- 2.
3. All modes of operation were investigated and the worst-case emissions are reported.

6.2 Unwanted Emissions above 1 GHz

6.2.1 Test Setup



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

6.2.2 Test Procedure

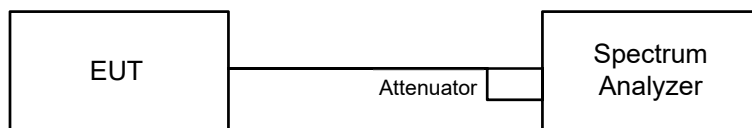
- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- 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:

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

6.3 Conducted Out of Band Emissions

6.3.1 Test Setup



6.3.2 Test Procedure

MEASUREMENT PROCEDURE REF

- Set the RBW = 100 kHz.
- Set the VBW $\geq$ 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

- Set RBW = 100 kHz.
- Set VBW $\geq$ 300 kHz.
- Detector = peak.
- Sweep = auto couple.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

7 Test Results of Test Item

7.1 Unwanted Emissions below 1 GHz

FCC 15.247

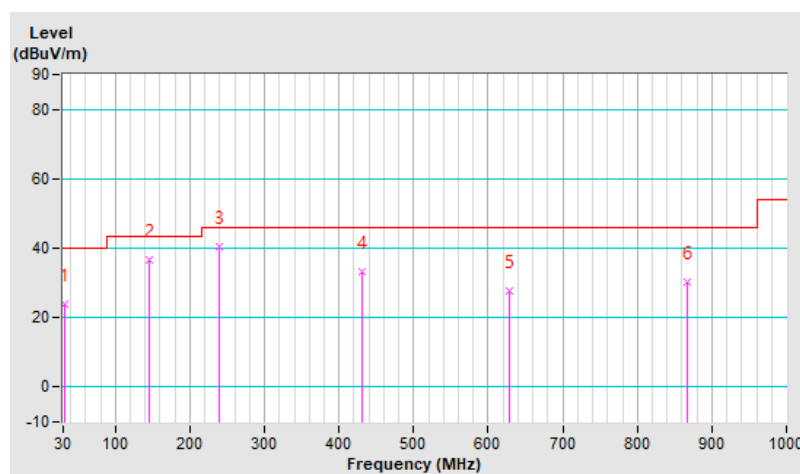
FCC 15.407

Combination	1		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	31.94	23.9 QP	40.0	-16.1	2.00 H	93	36.8	-12.9
2	144.46	36.8 QP	43.5	-6.7	2.00 H	182	49.2	-12.4
3	239.52	40.4 QP	46.0	-5.6	1.00 H	77	54.3	-13.9
4	431.58	33.1 QP	46.0	-12.9	1.50 H	188	41.2	-8.1
5	628.49	27.8 QP	46.0	-18.2	2.00 H	44	31.8	-4.0
6	866.14	30.2 QP	46.0	-15.8	1.00 H	281	30.7	-0.5

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

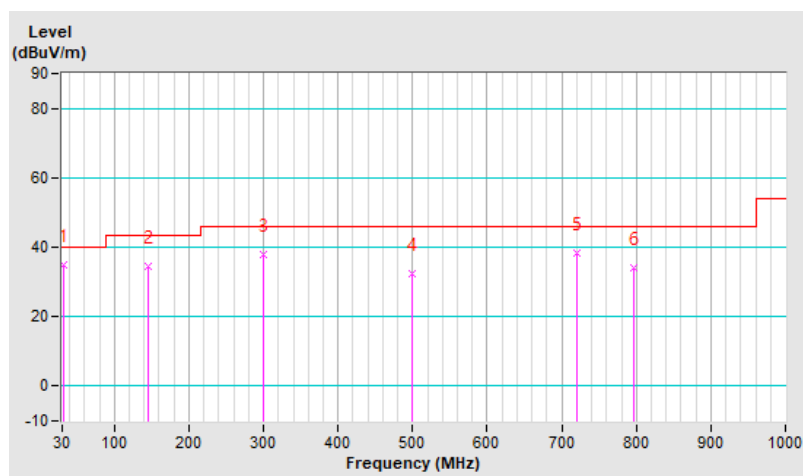


Combination	1		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	31.94	35.1 QP	40.0	-4.9	1.00 V	88	48.0	-12.9
2	144.46	34.7 QP	43.5	-8.8	1.50 V	219	47.1	-12.4
3	299.66	37.7 QP	46.0	-8.3	2.00 V	18	49.3	-11.6
4	498.51	32.5 QP	46.0	-13.5	1.00 V	286	39.1	-6.6
5	719.67	38.4 QP	46.0	-7.6	2.00 V	96	40.6	-2.2
6	796.3	34.1 QP	46.0	-11.9	1.50 V	292	34.9	-0.8

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

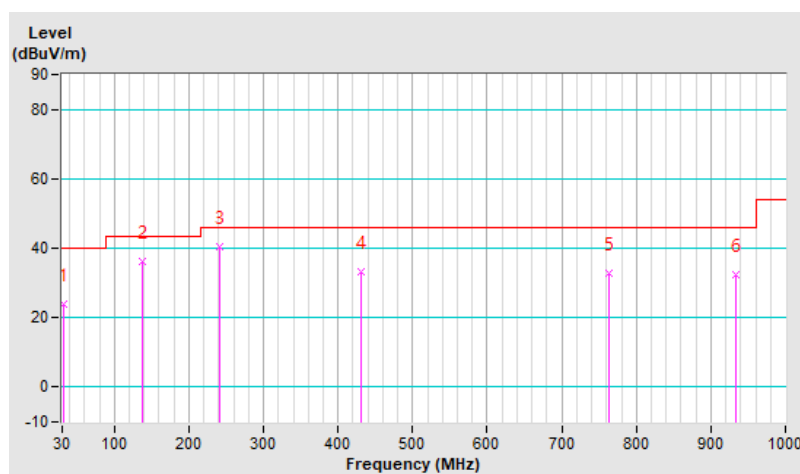


Combination	2		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	32.91	23.9 QP	40.0	-16.1	1.50 H	37	36.9	-13.0
2	137.67	36.0 QP	43.5	-7.5	1.00 H	195	48.6	-12.6
3	240.49	40.4 QP	46.0	-5.6	2.00 H	164	54.3	-13.9
4	431.58	33.1 QP	46.0	-12.9	1.00 H	192	41.2	-8.1
5	763.32	32.7 QP	46.0	-13.3	1.50 H	42	33.4	-0.7
6	933.07	32.4 QP	46.0	-13.6	2.00 H	45	32.0	0.4

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

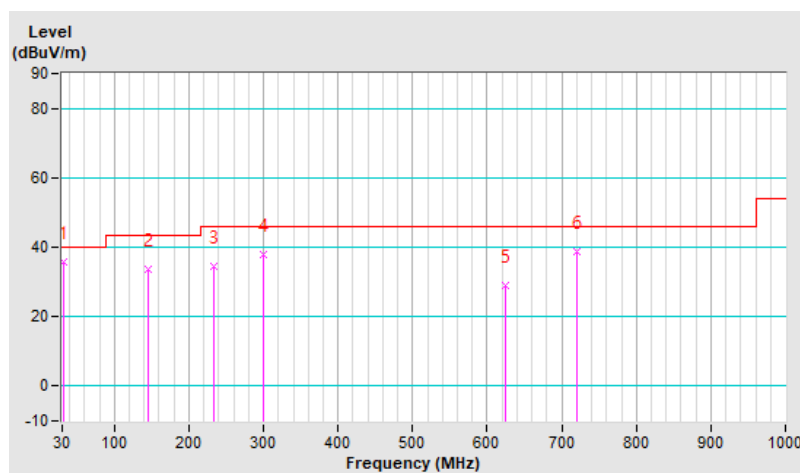


Combination	2		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	31.94	35.8 QP	40.0	-4.2	1.00 V	2	48.7	-12.9
2	144.46	33.5 QP	43.5	-10.0	1.50 V	208	45.9	-12.4
3	232.73	34.5 QP	46.0	-11.5	1.50 V	157	49.0	-14.5
4	299.66	38.0 QP	46.0	-8.0	1.00 V	17	49.6	-11.6
5	623.64	29.0 QP	46.0	-17.0	1.00 V	183	33.1	-4.1
6	719.67	38.8 QP	46.0	-7.2	2.00 V	78	41.0	-2.2

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

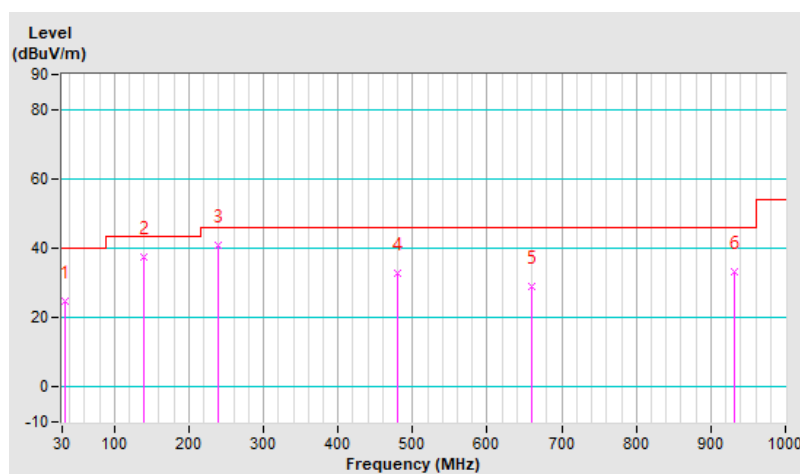


Combination	3		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	33.88	24.6 QP	40.0	-15.4	2.00 H	70	37.5	-12.9
2	139.61	37.5 QP	43.5	-6.0	1.00 H	17	50.1	-12.6
3	239.52	40.9 QP	46.0	-5.1	1.00 H	74	54.8	-13.9
4	480.08	32.6 QP	46.0	-13.4	1.50 H	279	39.6	-7.0
5	660.5	29.0 QP	46.0	-17.0	2.00 H	59	32.5	-3.5
6	931.13	33.2 QP	46.0	-12.8	1.50 H	243	32.9	0.3

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

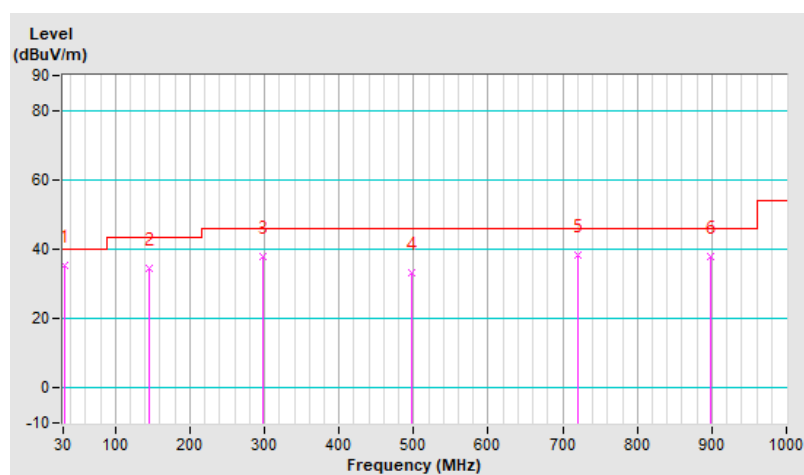


Combination	3		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	32.91	35.3 QP	40.0	-4.7	1.00 V	218	48.3	-13.0
2	144.46	34.3 QP	43.5	-9.2	1.50 V	187	46.7	-12.4
3	298.69	38.0 QP	46.0	-8.0	2.00 V	16	49.6	-11.6
4	497.54	33.2 QP	46.0	-12.8	1.50 V	296	39.8	-6.6
5	719.67	38.4 QP	46.0	-7.6	2.00 V	78	40.6	-2.2
6	898.15	37.7 QP	46.0	-8.3	1.50 V	75	38.1	-0.4

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

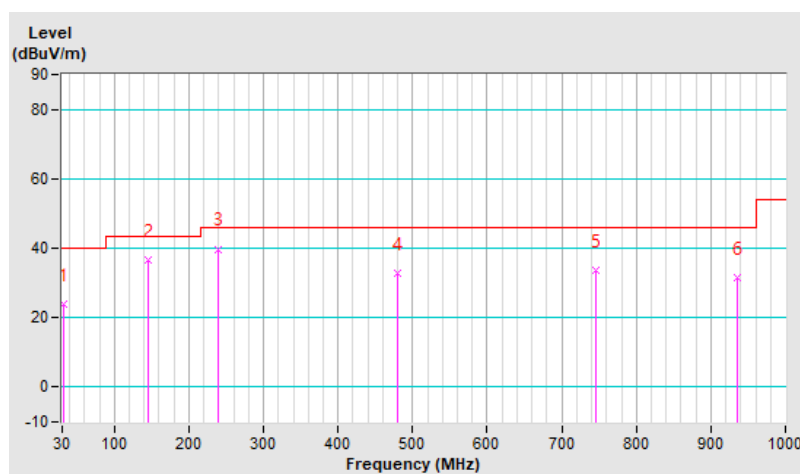


Combination	4		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	31.94	23.7 QP	40.0	-16.3	2.00 H	50	36.6	-12.9
2	144.46	36.5 QP	43.5	-7.0	1.00 H	205	48.9	-12.4
3	239.52	39.8 QP	46.0	-6.2	1.00 H	67	53.7	-13.9
4	480.08	32.6 QP	46.0	-13.4	1.50 H	264	39.6	-7.0
5	745.86	33.6 QP	46.0	-12.4	2.00 H	59	34.6	-1.0
6	935.01	31.4 QP	46.0	-14.6	1.50 H	283	31.0	0.4

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

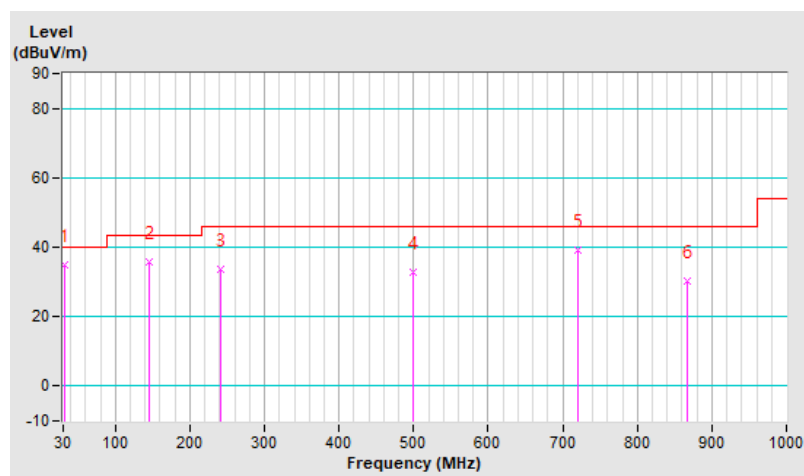


Combination	4		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	32.91	35.0 QP	40.0	-5.0	1.00 V	77	48.0	-13.0
2	144.46	35.7 QP	43.5	-7.8	1.00 V	198	48.1	-12.4
3	240.49	33.6 QP	46.0	-12.4	1.50 V	137	47.5	-13.9
4	498.51	32.6 QP	46.0	-13.4	2.00 V	245	39.2	-6.6
5	719.67	39.1 QP	46.0	-6.9	1.00 V	95	41.3	-2.2
6	867.11	30.1 QP	46.0	-15.9	1.50 V	21	30.6	-0.5

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

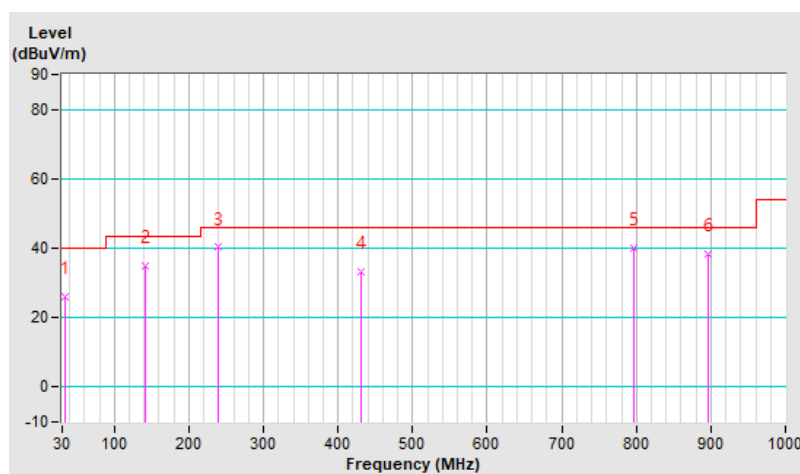


Combination	5		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	33.88	25.9 QP	40.0	-14.1	2.00 H	76	38.8	-12.9
2	141.55	35.1 QP	43.5	-8.4	1.00 H	191	47.6	-12.5
3	239.52	40.2 QP	46.0	-5.8	1.00 H	170	54.1	-13.9
4	431.58	33.3 QP	46.0	-12.7	1.50 H	337	41.4	-8.1
5	796.3	40.1 QP	46.0	-5.9	2.00 H	250	40.9	-0.8
6	896.21	38.2 QP	46.0	-7.8	1.50 H	198	38.6	-0.4

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

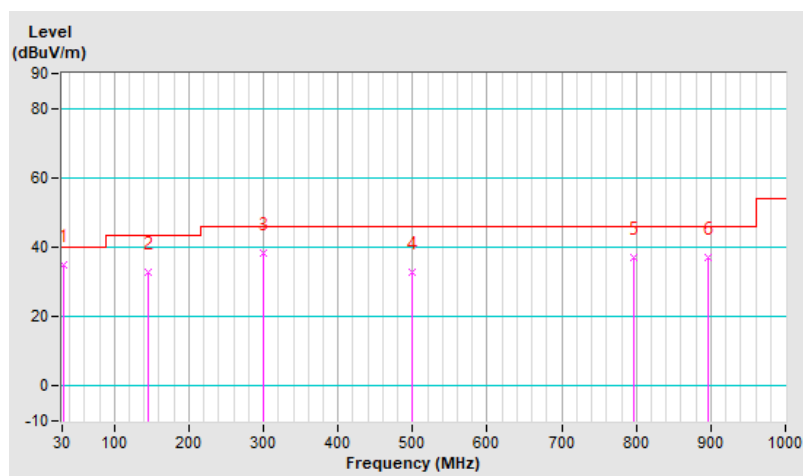


Combination	5		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	31.94	34.8 QP	40.0	-5.2	1.00 V	98	47.7	-12.9
2	144.46	32.8 QP	43.5	-10.7	1.50 V	172	45.2	-12.4
3	299.66	38.2 QP	46.0	-7.8	2.00 V	18	49.8	-11.6
4	498.51	32.9 QP	46.0	-13.1	1.50 V	266	39.5	-6.6
5	796.3	37.2 QP	46.0	-8.8	1.00 V	227	38.0	-0.8
6	896.21	37.0 QP	46.0	-9.0	2.00 V	71	37.4	-0.4

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

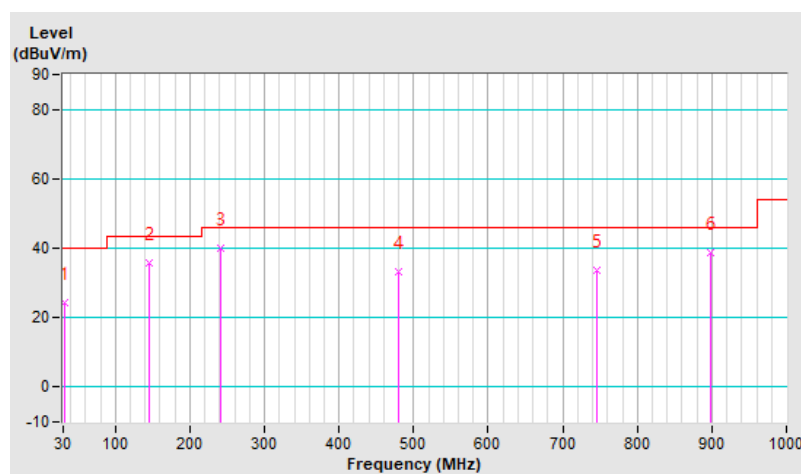


Combination	6		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	31.94	24.4 QP	40.0	-15.6	2.00 H	74	37.3	-12.9
2	144.46	35.6 QP	43.5	-7.9	1.00 H	183	48.0	-12.4
3	240.49	40.2 QP	46.0	-5.8	1.50 H	171	54.1	-13.9
4	480.08	33.1 QP	46.0	-12.9	2.00 H	272	40.1	-7.0
5	745.86	33.5 QP	46.0	-12.5	2.00 H	54	34.5	-1.0
6	898.15	38.8 QP	46.0	-7.2	1.00 H	186	39.2	-0.4

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

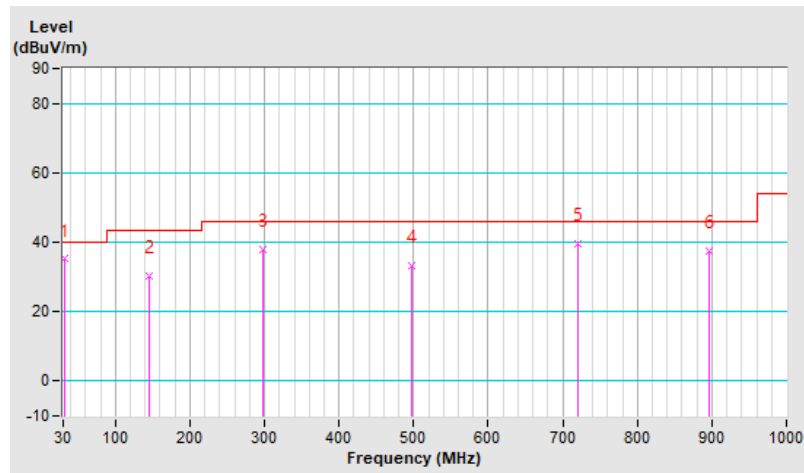


Combination	6		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	31.94	35.1 QP	40.0	-4.9	1.00 V	126	48.0	-12.9
2	144.46	30.4 QP	43.5	-13.1	2.00 V	204	42.8	-12.4
3	298.69	37.7 QP	46.0	-8.3	1.00 V	15	49.3	-11.6
4	497.54	33.2 QP	46.0	-12.8	1.00 V	287	39.8	-6.6
5	719.67	39.4 QP	46.0	-6.6	1.50 V	95	41.6	-2.2
6	896.21	37.5 QP	46.0	-8.5	2.00 V	68	37.9	-0.4

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

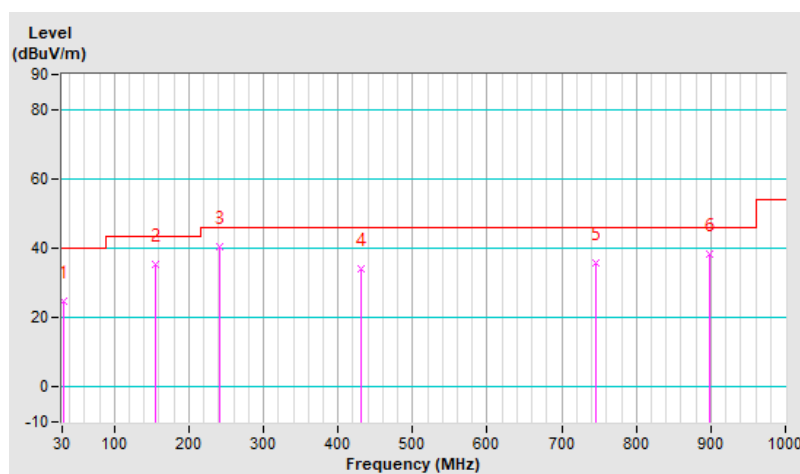


Combination	7		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	32.91	24.6 QP	40.0	-15.4	2.00 H	92	37.6	-13.0
2	155.13	35.2 QP	43.5	-8.3	1.50 H	25	47.4	-12.2
3	240.49	40.5 QP	46.0	-5.5	1.00 H	70	54.4	-13.9
4	431.58	34.0 QP	46.0	-12.0	1.00 H	344	42.1	-8.1
5	745.86	35.8 QP	46.0	-10.2	2.00 H	315	36.8	-1.0
6	898.15	38.2 QP	46.0	-7.8	1.50 H	238	38.6	-0.4

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

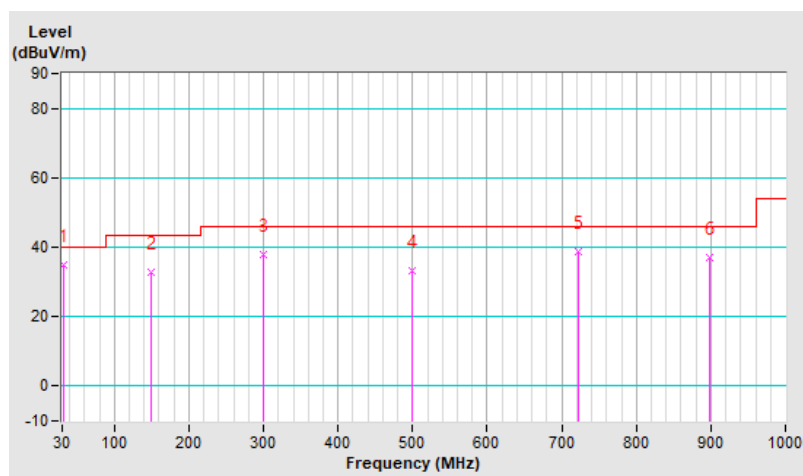


Combination	7		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	31.94	34.9 QP	40.0	-5.1	1.00 V	44	47.8	-12.9
2	148.34	32.8 QP	43.5	-10.7	1.50 V	175	45.1	-12.3
3	299.66	37.9 QP	46.0	-8.1	2.00 V	18	49.5	-11.6
4	498.51	33.2 QP	46.0	-12.8	2.00 V	268	39.8	-6.6
5	721.61	38.8 QP	46.0	-7.2	1.00 V	88	41.0	-2.2
6	898.15	36.9 QP	46.0	-9.1	1.50 V	78	37.3	-0.4

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

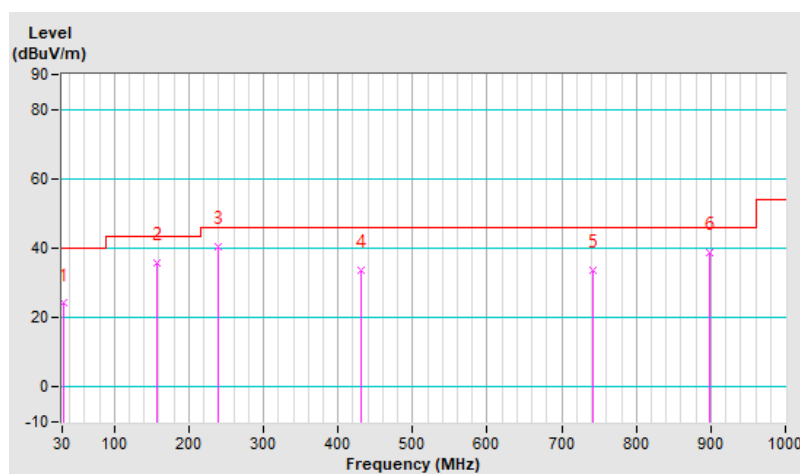


Combination	8		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	32.91	24.1 QP	40.0	-15.9	1.00 H	36	37.1	-13.0
2	157.07	35.6 QP	43.5	-7.9	2.00 H	191	47.8	-12.2
3	239.52	40.5 QP	46.0	-5.5	1.50 H	66	54.4	-13.9
4	431.58	33.7 QP	46.0	-12.3	1.00 H	333	41.8	-8.1
5	741.98	33.5 QP	46.0	-12.5	1.00 H	44	34.7	-1.2
6	898.15	38.6 QP	46.0	-7.4	2.00 H	193	39.0	-0.4

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

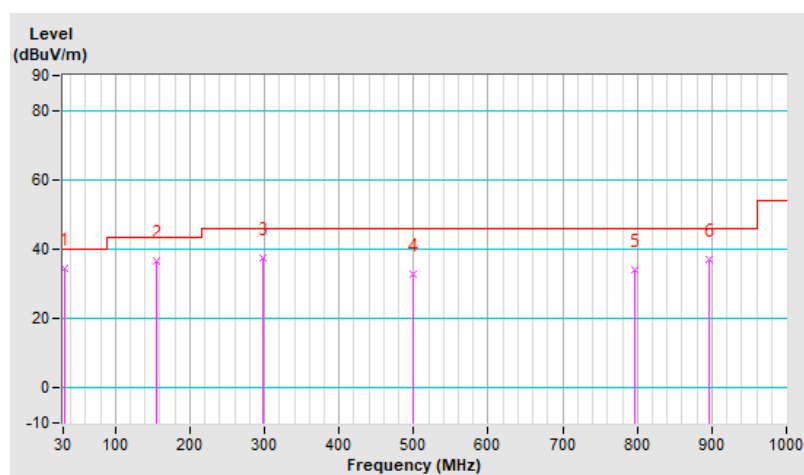


Combination	8		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	32.91	34.7 QP	40.0	-5.3	1.00 V	125	47.7	-13.0
2	155.13	36.5 QP	43.5	-7.0	1.50 V	125	48.7	-12.2
3	298.69	37.5 QP	46.0	-8.5	2.00 V	15	49.1	-11.6
4	498.51	32.9 QP	46.0	-13.1	2.00 V	251	39.5	-6.6
5	796.3	33.9 QP	46.0	-12.1	1.50 V	18	34.7	-0.8
6	896.21	37.1 QP	46.0	-8.9	1.00 V	83	37.5	-0.4

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

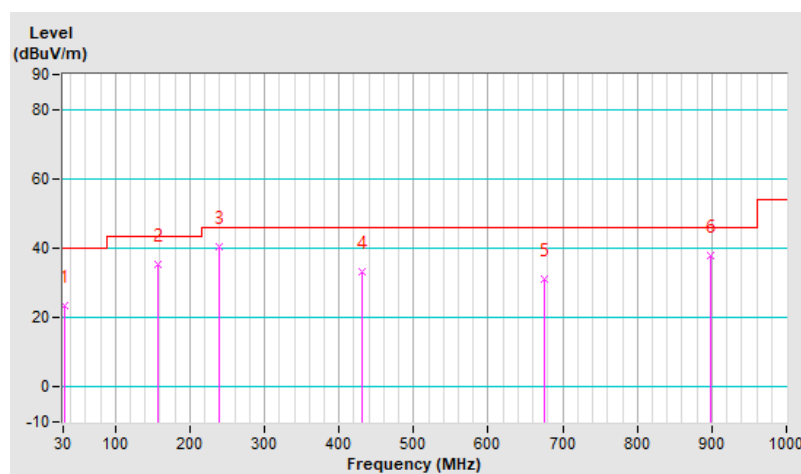


Combination	9		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	32.91	23.5 QP	40.0	-16.5	2.00 H	25	36.5	-13.0
2	157.07	35.2 QP	43.5	-8.3	1.00 H	2	47.4	-12.2
3	239.52	40.6 QP	46.0	-5.4	2.00 H	168	54.5	-13.9
4	431.58	33.2 QP	46.0	-12.8	1.00 H	344	41.3	-8.1
5	675.05	31.1 QP	46.0	-14.9	1.50 H	54	34.3	-3.2
6	898.15	38.0 QP	46.0	-8.0	2.00 H	190	38.4	-0.4

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

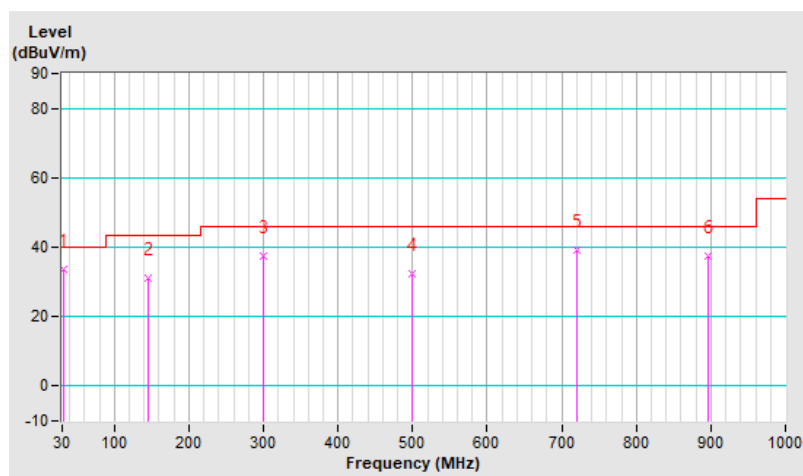


Combination	9		
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	31.94	33.6 QP	40.0	-6.4	1.00 V	85	46.5	-12.9
2	144.46	31.2 QP	43.5	-12.3	1.50 V	184	43.6	-12.4
3	299.66	37.6 QP	46.0	-8.4	2.00 V	10	49.2	-11.6
4	498.51	32.5 QP	46.0	-13.5	1.50 V	245	39.1	-6.6
5	719.67	39.3 QP	46.0	-6.7	1.00 V	91	41.5	-2.2
6	896.21	37.4 QP	46.0	-8.6	2.00 V	72	37.8	-0.4

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 ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.2 Unwanted Emissions above 1 GHz

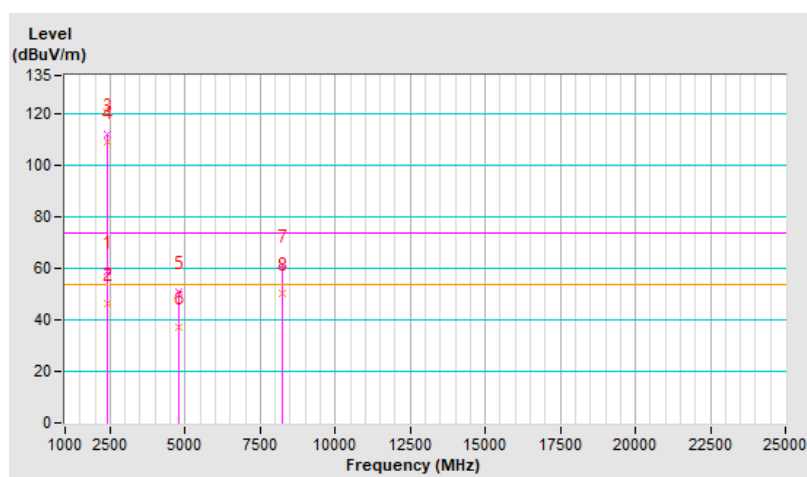
FCC 15.247

Combination	1		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	2390	59.0 PK	74.0	-15.0	1.19 H	279	24.7	34.3
2	2390	46.1 AV	54.0	-7.9	1.19 H	279	11.8	34.3
3	*2404	112.2 PK			1.19 H	279	77.9	34.3
4	*2404	109.2 AV			1.19 H	279	74.9	34.3
5	4808	50.7 PK	74.0	-23.3	2.34 H	186	44.2	6.5
6	4808	37.3 AV	54.0	-16.7	2.34 H	186	30.8	6.5
7	8228.97	61.2 PK	74.0	-12.8	2.23 H	224	50.2	11.0
8	8228.97	50.1 AV	54.0	-3.9	2.23 H	224	39.1	11.0

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

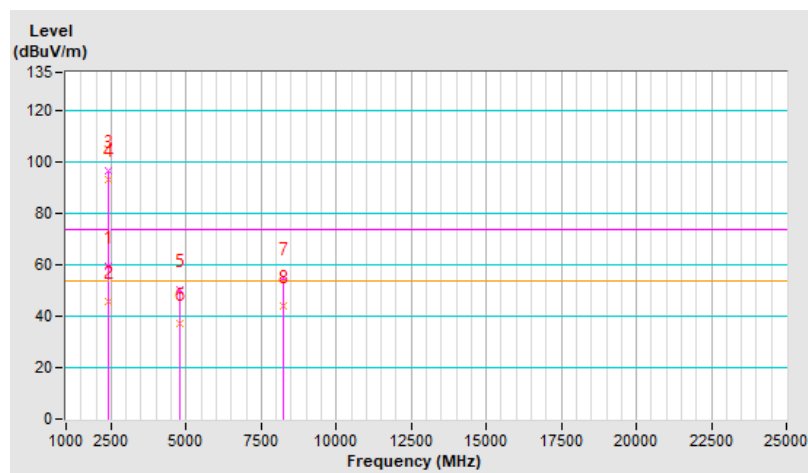


Combination	1		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	2390	59.7 PK	74.0	-14.3	1.22 V	281	25.4	34.3
2	2390	46.0 AV	54.0	-8.0	1.22 V	281	11.7	34.3
3	*2404	96.4 PK			1.22 V	281	62.1	34.3
4	*2404	93.5 AV			1.22 V	281	59.2	34.3
5	4808	50.2 PK	74.0	-23.8	1.83 V	224	43.7	6.5
6	4808	36.9 AV	54.0	-17.1	1.83 V	224	30.4	6.5
7	8228.97	55.2 PK	74.0	-18.8	1.83 V	37	44.2	11.0
8	8228.97	44.1 AV	54.0	-9.9	1.83 V	37	33.1	11.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



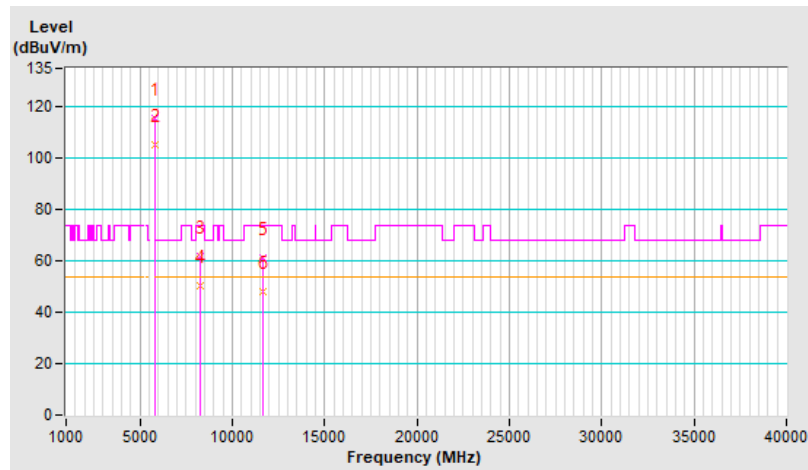
FCC 15.407

Combination	1		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	*5825	115.3 PK			2.35 H	249	72.9	42.4
2	*5825	105.0 AV			2.35 H	249	62.6	42.4
3	8228.97	61.7 PK	74.0	-12.3	2.23 H	224	50.2	11.5
4	8228.97	50.6 AV	54.0	-3.4	2.23 H	224	39.1	11.5
5	11650	61.2 PK	74.0	-12.8	1.73 H	183	49.4	11.8
6	11650	48.3 AV	54.0	-5.7	1.73 H	183	36.5	11.8

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.

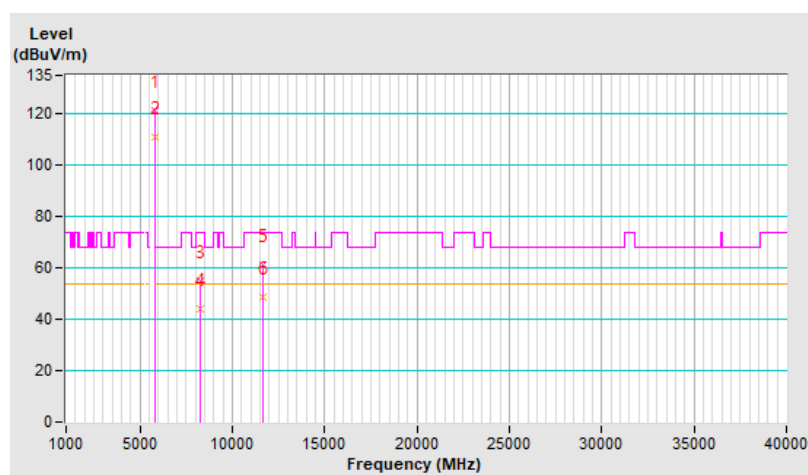


Combination	1		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	*5825	121.4 PK			1.12 V	246	79.0	42.4
2	*5825	111.0 AV			1.12 V	246	68.6	42.4
3	8228.97	55.2 PK	74.0	-18.8	1.83 V	37	43.7	11.5
4	8228.97	44.1 AV	54.0	-9.9	1.83 V	37	32.6	11.5
5	11650	61.4 PK	74.0	-12.6	2.78 V	143	49.6	11.8
6	11650	48.4 AV	54.0	-5.6	2.78 V	143	36.6	11.8

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.



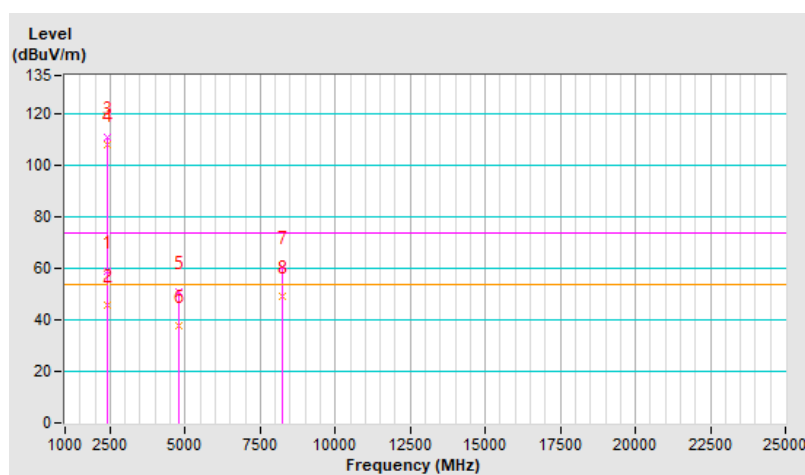
FCC 15.247

Combination	2		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	2390	59.2 PK	74.0	-14.8	1.43 H	250	24.9	34.3
2	2390	46.0 AV	54.0	-8.0	1.43 H	250	11.7	34.3
3	*2404	110.8 PK			1.43 H	250	76.5	34.3
4	*2404	108.2 AV			1.43 H	250	73.9	34.3
5	4808	50.9 PK	74.0	-23.1	1.75 H	123	44.4	6.5
6	4808	37.7 AV	54.0	-16.3	1.75 H	123	31.2	6.5
7	8230.27	60.9 PK	74.0	-13.1	1.06 H	235	49.9	11.0
8	8230.27	49.4 AV	54.0	-4.6	1.06 H	235	38.4	11.0

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

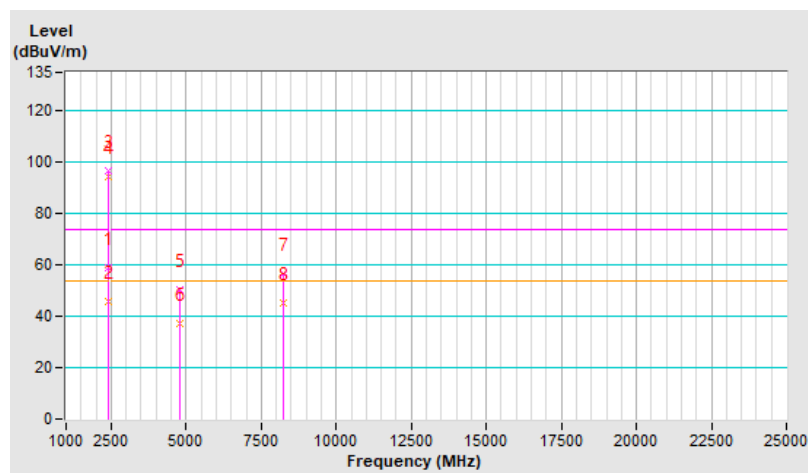


Combination	2		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	2390	59.1 PK	74.0	-14.9	3.46 V	251	24.8	34.3
2	2390	46.0 AV	54.0	-8.0	3.46 V	251	11.7	34.3
3	*2404	96.8 PK			3.46 V	251	62.5	34.3
4	*2404	94.3 AV			3.46 V	251	60.0	34.3
5	4808	50.3 PK	74.0	-23.7	1.64 V	228	43.8	6.5
6	4808	37.4 AV	54.0	-16.6	1.64 V	228	30.9	6.5
7	8230.27	56.5 PK	74.0	-17.5	1.10 V	276	45.5	11.0
8	8230.27	45.0 AV	54.0	-9.0	1.10 V	276	34.0	11.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



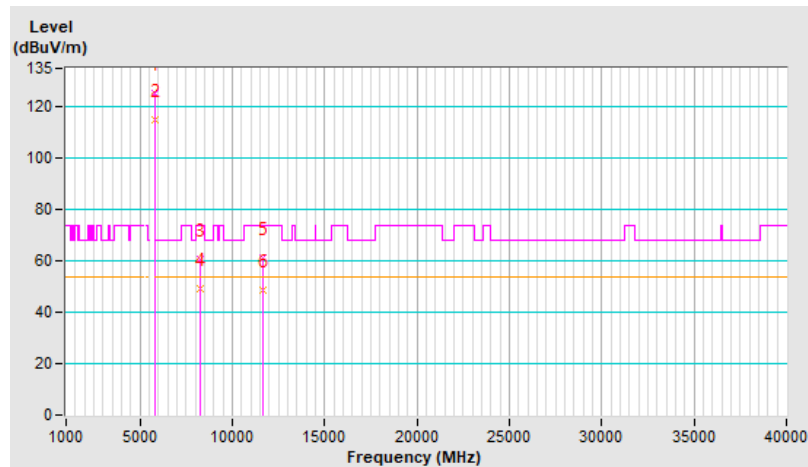
FCC 15.407

Combination	2		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	*5825	125.5 PK			2.29 H	243	83.1	42.4
2	*5825	115.2 AV			2.29 H	243	72.8	42.4
3	8230.27	60.9 PK	74.0	-13.1	1.06 H	235	49.4	11.5
4	8230.27	49.4 AV	54.0	-4.6	1.06 H	235	37.9	11.5
5	11650	61.4 PK	74.0	-12.6	1.54 H	119	49.6	11.8
6	11650	48.5 AV	54.0	-5.5	1.54 H	119	36.7	11.8

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.

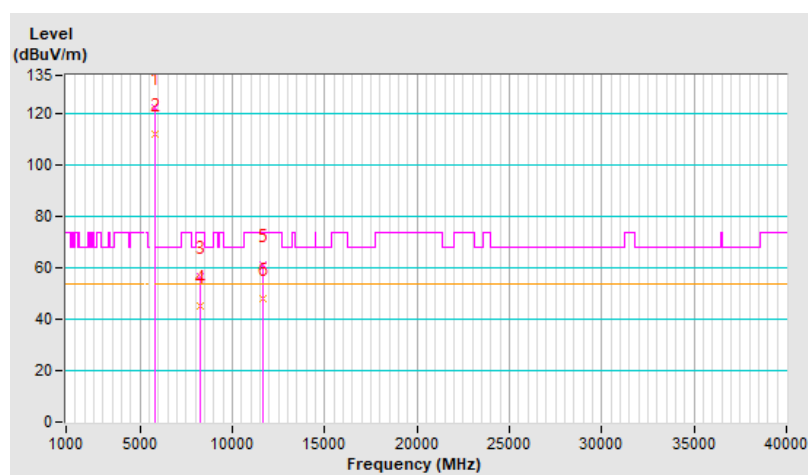


Combination	2		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	*5825	122.3 PK			1.09 V	215	79.9	42.4
2	*5825	112.4 AV			1.09 V	215	70.0	42.4
3	8230.27	56.5 PK	74.0	-17.5	1.10 V	276	45.0	11.5
4	8230.27	45.0 AV	54.0	-9.0	1.10 V	276	33.5	11.5
5	11650	61.0 PK	74.0	-13.0	2.34 V	123	49.2	11.8
6	11650	48.1 AV	54.0	-5.9	2.34 V	123	36.3	11.8

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.



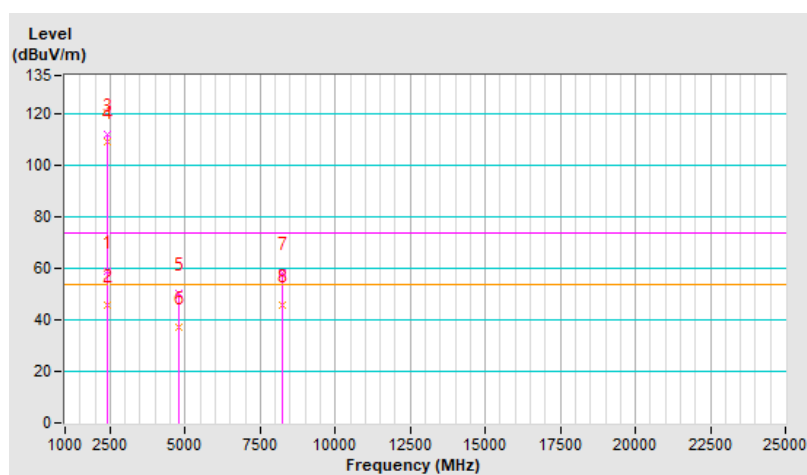
FCC 15.247

Combination	3		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	2390	58.9 PK	74.0	-15.1	1.03 H	268	24.6	34.3
2	2390	45.9 AV	54.0	-8.1	1.03 H	268	11.6	34.3
3	*2404	112.2 PK			1.03 H	268	77.9	34.3
4	*2404	109.2 AV			1.03 H	268	74.9	34.3
5	4808	50.6 PK	74.0	-23.4	2.16 H	175	44.1	6.5
6	4808	37.0 AV	54.0	-17.0	2.16 H	175	30.5	6.5
7	8262.44	58.2 PK	74.0	-15.8	2.03 H	231	47.4	10.8
8	8262.44	45.9 AV	54.0	-8.1	2.03 H	231	35.1	10.8

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.

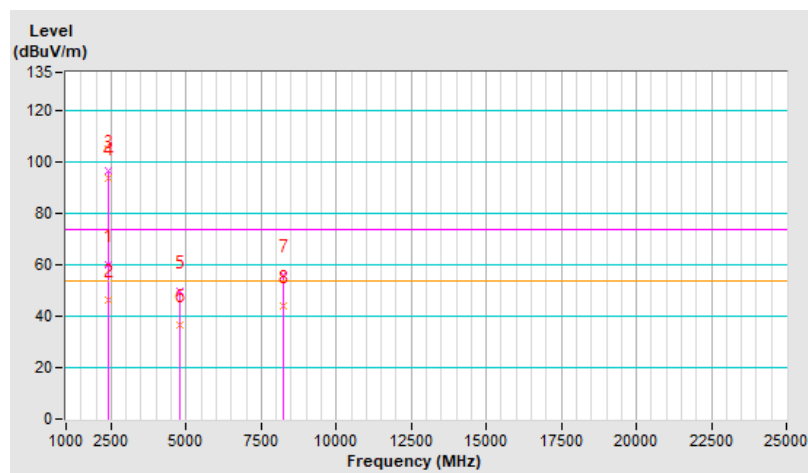


Combination	3		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	2390	60.1 PK	74.0	-13.9	1.26 V	286	25.8	34.3
2	2390	46.2 AV	54.0	-7.8	1.26 V	286	11.9	34.3
3	*2404	96.6 PK			1.26 V	286	62.3	34.3
4	*2404	93.7 AV			1.26 V	286	59.4	34.3
5	4808	50.0 PK	74.0	-24.0	2.27 V	153	43.5	6.5
6	4808	36.7 AV	54.0	-17.3	2.27 V	153	30.2	6.5
7	8262.44	55.9 PK	74.0	-18.1	1.60 V	175	45.1	10.8
8	8262.44	44.0 AV	54.0	-10.0	1.60 V	175	33.2	10.8

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.



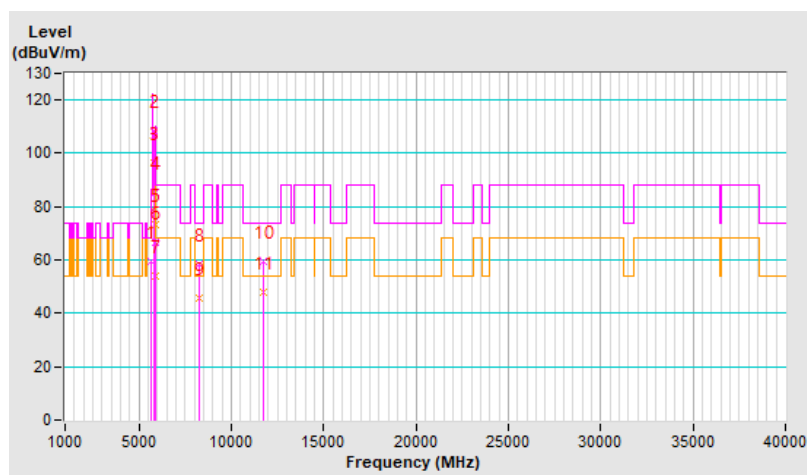
FCC 15.407

Combination	3		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	#5650	59.5 PK	68.2	-8.7	2.31 H	259	53.7	5.8
2	*5855	108.5 PK			2.31 H	259	66.1	42.4
3	*5855	96.4 AV			2.31 H	259	54.0	42.4
4	#5895	85.4 PK	110.2	-24.8	2.31 H	259	79.0	6.4
5	#5895	73.3 AV	90.2	-16.9	2.31 H	259	66.9	6.4
6	#5925	66.6 PK	88.2	-21.6	2.31 H	259	60.1	6.5
7	#5925	54.2 AV	68.2	-14.0	2.31 H	259	47.7	6.5
8	8262.44	58.2 PK	74.0	-15.8	2.03 H	231	46.8	11.4
9	8262.44	45.9 AV	54.0	-8.1	2.03 H	231	34.5	11.4
10	11710	59.7 PK	74.0	-14.3	1.53 H	232	48.3	11.4
11	11710	47.8 AV	54.0	-6.2	1.53 H	232	36.4	11.4

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.

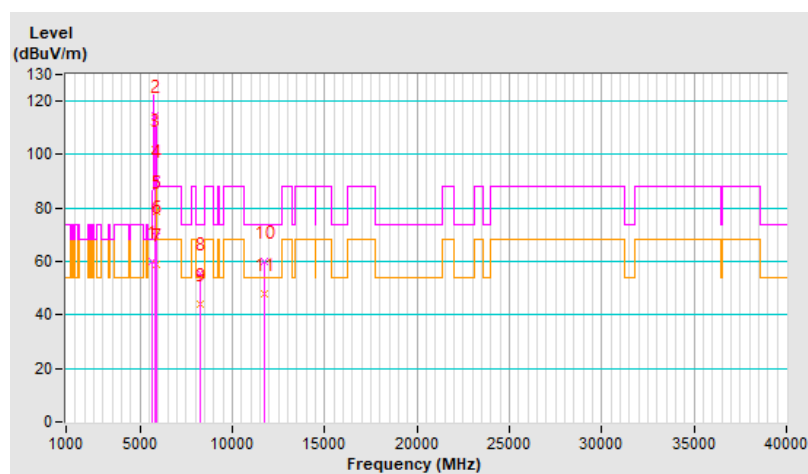


Combination	3		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	#5650	59.9 PK	68.2	-8.3	1.17 V	254	54.1	5.8
2	*5855	114.4 PK			1.17 V	254	72.0	42.4
3	*5855	101.9 AV			1.17 V	254	59.5	42.4
4	#5895	90.3 PK	110.2	-19.9	1.17 V	254	83.9	6.4
5	#5895	78.5 AV	90.2	-11.7	1.17 V	254	72.1	6.4
6	#5925	69.3 PK	88.2	-18.9	1.17 V	254	62.8	6.5
7	#5925	58.7 AV	68.2	-9.5	1.17 V	254	52.2	6.5
8	8262.44	55.9 PK	74.0	-18.1	1.60 V	175	44.5	11.4
9	8262.44	44.0 AV	54.0	-10.0	1.60 V	175	32.6	11.4
10	11710	60.0 PK	74.0	-14.0	1.03 V	225	48.6	11.4
11	11710	48.1 AV	54.0	-5.9	1.03 V	225	36.7	11.4

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.



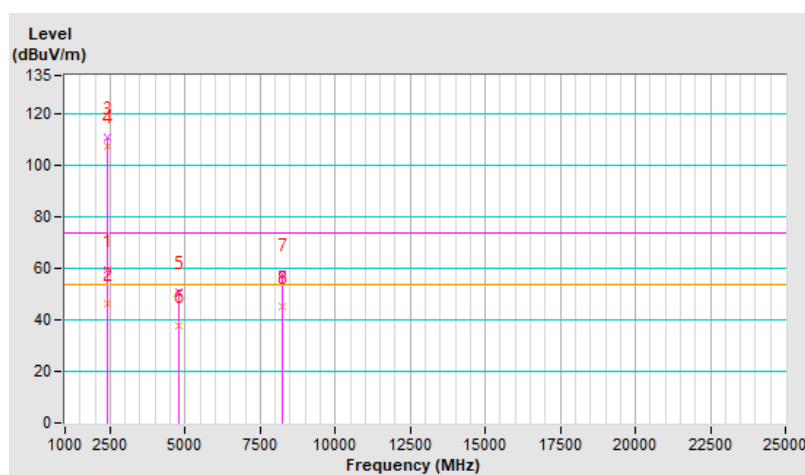
FCC 15.247

Combination	4		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	2390	59.5 PK	74.0	-14.5	1.29 H	253	25.2	34.3
2	2390	46.1 AV	54.0	-7.9	1.29 H	253	11.8	34.3
3	*2404	110.9 PK			1.29 H	253	76.6	34.3
4	*2404	107.8 AV			1.29 H	253	73.5	34.3
5	4808	50.7 PK	74.0	-23.3	1.68 H	118	44.2	6.5
6	4808	37.5 AV	54.0	-16.5	1.68 H	118	31.0	6.5
7	8256.79	57.5 PK	74.0	-16.5	2.36 H	243	46.6	10.9
8	8256.79	45.4 AV	54.0	-8.6	2.36 H	243	34.5	10.9

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.

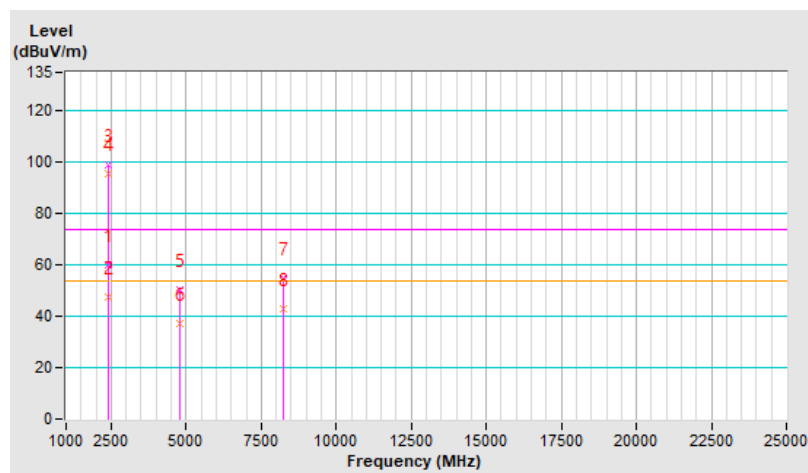


Combination	4		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	2390	60.2 PK	74.0	-13.8	3.43 V	227	25.9	34.3
2	2390	47.6 AV	54.0	-6.4	3.43 V	227	13.3	34.3
3	*2404	98.8 PK			3.43 V	227	64.5	34.3
4	*2404	95.8 AV			3.43 V	227	61.5	34.3
5	4808	50.2 PK	74.0	-23.8	2.43 V	110	43.7	6.5
6	4808	37.1 AV	54.0	-16.9	2.43 V	110	30.6	6.5
7	8256.79	55.0 PK	74.0	-19.0	1.43 V	228	44.1	10.9
8	8256.79	43.0 AV	54.0	-11.0	1.43 V	228	32.1	10.9

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.



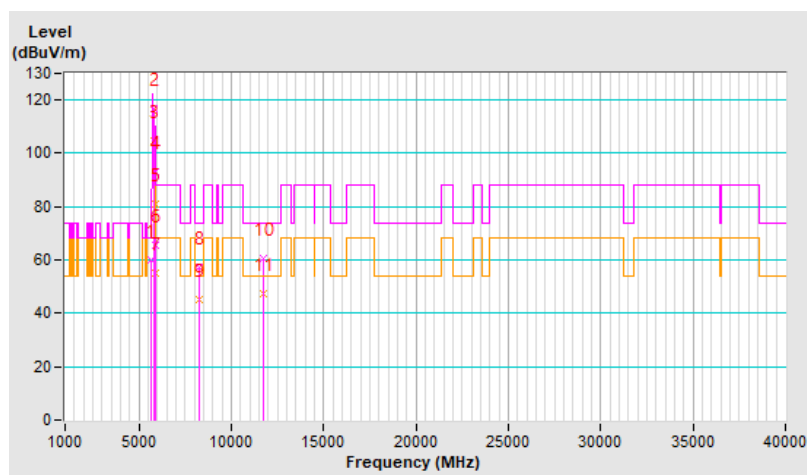
FCC 15.407

Combination	4		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	#5650	59.8 PK	68.2	-8.4	2.39 H	248	54.0	5.8
2	*5855	116.7 PK			2.39 H	248	74.3	42.4
3	*5855	104.4 AV			2.39 H	248	62.0	42.4
4	#5895	93.0 PK	110.2	-17.2	2.39 H	248	86.6	6.4
5	#5895	81.0 AV	90.2	-9.2	2.39 H	248	74.6	6.4
6	#5925	65.6 PK	88.2	-22.6	2.39 H	248	59.1	6.5
7	#5925	55.2 AV	68.2	-13.0	2.39 H	248	48.7	6.5
8	8256.79	57.5 PK	74.0	-16.5	2.36 H	243	46.0	11.5
9	8256.79	45.4 AV	54.0	-8.6	2.36 H	243	33.9	11.5
10	11710	60.5 PK	74.0	-13.5	1.63 H	228	49.1	11.4
11	11710	47.6 AV	54.0	-6.4	1.63 H	228	36.2	11.4

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.

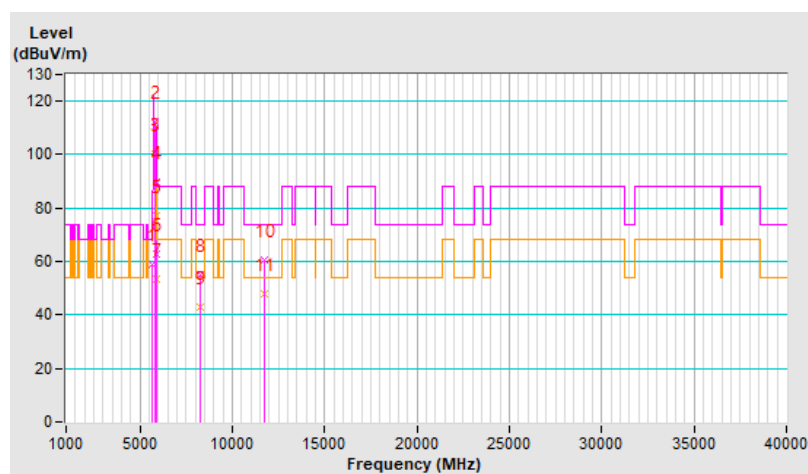


Combination	4		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	#5650	58.7 PK	68.2	-9.5	1.67 V	211	52.9	5.8
2	*5855	112.4 PK			1.67 V	211	70.0	42.4
3	*5855	100.1 AV			1.67 V	211	57.7	42.4
4	#5895	89.8 PK	110.2	-20.4	1.67 V	211	83.4	6.4
5	#5895	77.0 AV	90.2	-13.2	1.67 V	211	70.6	6.4
6	#5925	63.0 PK	88.2	-25.2	1.67 V	211	56.5	6.5
7	#5925	53.2 AV	68.2	-15.0	1.67 V	211	46.7	6.5
8	8256.79	55.0 PK	74.0	-19.0	1.43 V	228	43.5	11.5
9	8256.79	43.0 AV	54.0	-11.0	1.43 V	228	31.5	11.5
10	11710	60.7 PK	74.0	-13.3	2.76 V	168	49.3	11.4
11	11710	47.8 AV	54.0	-6.2	2.76 V	168	36.4	11.4

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.



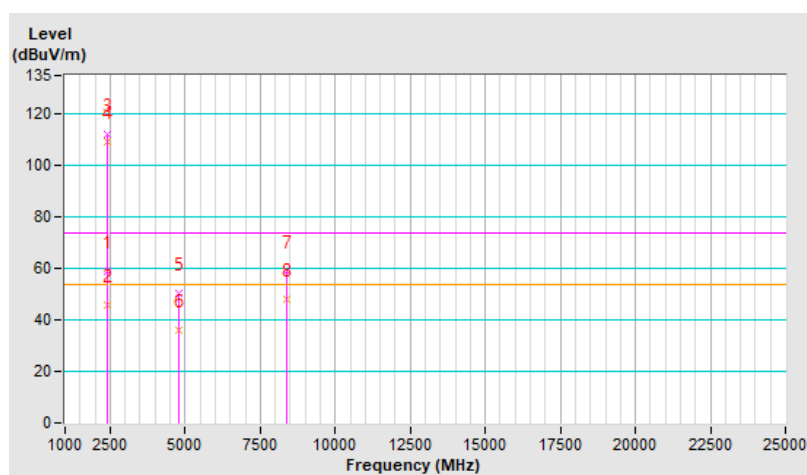
FCC 15.247

Combination	5		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	2390	59.1 PK	74.0	-14.9	1.14 H	253	24.8	34.3
2	2390	46.0 AV	54.0	-8.0	1.14 H	253	11.7	34.3
3	*2404	112.3 PK			1.14 H	253	78.0	34.3
4	*2404	109.3 AV			1.14 H	253	75.0	34.3
5	4808	50.6 PK	74.0	-23.4	3.67 H	49	44.1	6.5
6	4808	36.2 AV	54.0	-17.8	3.67 H	49	29.7	6.5
7	8391	59.0 PK	74.0	-15.0	2.18 H	232	48.0	11.0
8	8391	47.8 AV	54.0	-6.2	2.18 H	232	36.8	11.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

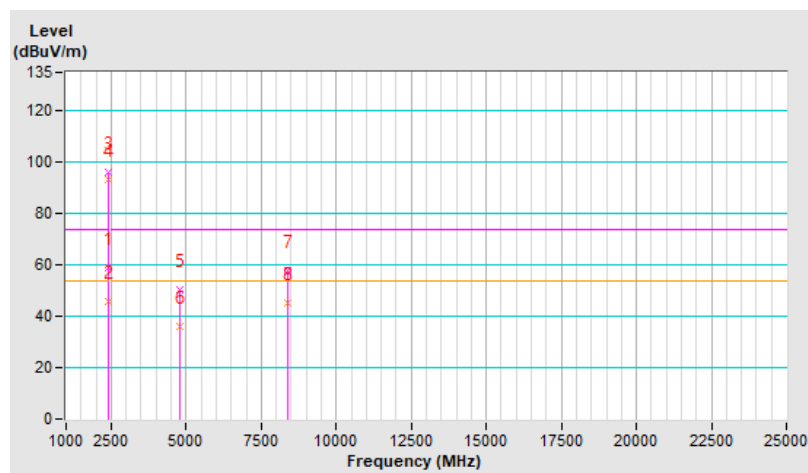


Combination	5		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	2390	58.7 PK	74.0	-15.3	1.01 V	306	24.4	34.3
2	2390	45.8 AV	54.0	-8.2	1.01 V	306	11.5	34.3
3	*2404	96.1 PK			1.01 V	306	61.8	34.3
4	*2404	93.2 AV			1.01 V	306	58.9	34.3
5	4808	50.2 PK	74.0	-23.8	2.00 V	114	43.7	6.5
6	4808	35.9 AV	54.0	-18.1	2.00 V	114	29.4	6.5
7	8391	57.8 PK	74.0	-16.2	1.00 V	289	46.8	11.0
8	8391	45.0 AV	54.0	-9.0	1.00 V	289	34.0	11.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



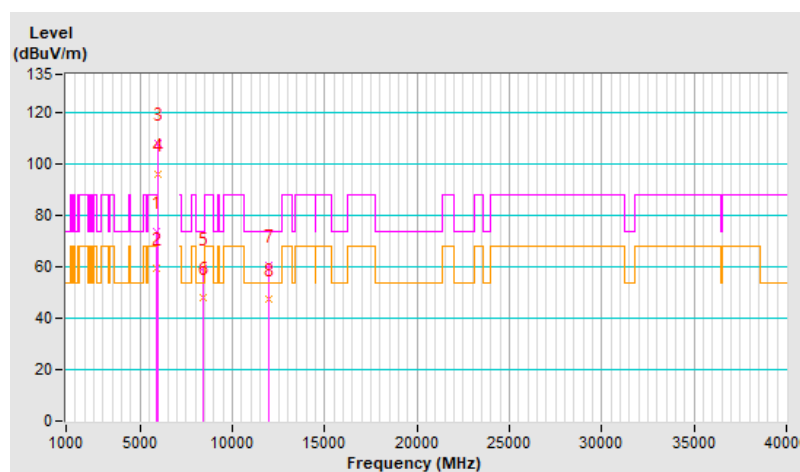
FCC 15.407

Combination	5		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	#5925	73.7 PK	88.2	-14.5	2.36 H	261	67.2	6.5
2	#5925	59.5 AV	68.2	-8.7	2.36 H	261	53.0	6.5
3	*5985	108.4 PK			2.36 H	261	65.8	42.6
4	*5985	96.3 AV			2.36 H	261	53.7	42.6
5	8391	59.4 PK	74.0	-14.6	2.18 H	232	48.0	11.4
6	8391	48.2 AV	54.0	-5.8	2.18 H	232	36.8	11.4
7	11970	60.4 PK	74.0	-13.6	2.13 H	160	49.8	10.6
8	11970	47.2 AV	54.0	-6.8	2.13 H	160	36.6	10.6

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.

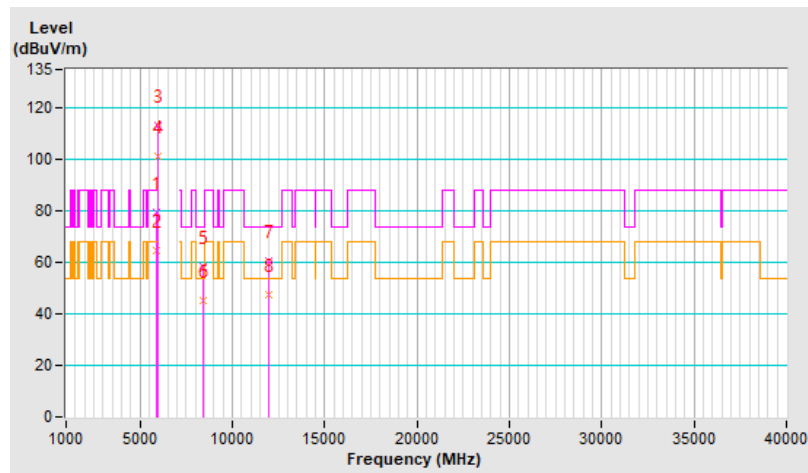


Combination	5		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	#5925	79.6 PK	88.2	-8.6	1.05 V	254	73.1	6.5
2	#5925	64.5 AV	68.2	-3.7	1.05 V	254	58.0	6.5
3	*5985	113.2 PK			1.05 V	254	70.6	42.6
4	*5985	101.2 AV			1.05 V	254	58.6	42.6
5	8391	58.2 PK	74.0	-15.8	1.00 V	289	46.8	11.4
6	8391	45.4 AV	54.0	-8.6	1.00 V	289	34.0	11.4
7	11970	60.5 PK	74.0	-13.5	1.54 V	345	49.9	10.6
8	11970	47.4 AV	54.0	-6.6	1.54 V	345	36.8	10.6

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.



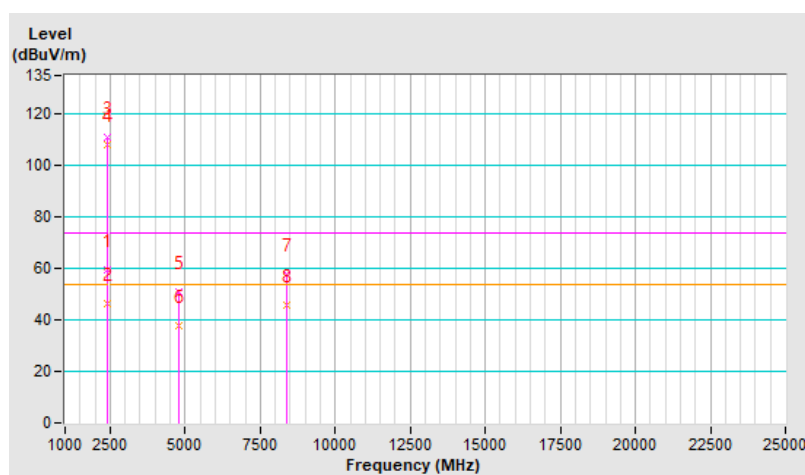
FCC 15.247

Combination	6		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	2390	59.5 PK	74.0	-14.5	1.40 H	256	25.2	34.3
2	2390	46.4 AV	54.0	-7.6	1.40 H	256	12.1	34.3
3	*2404	111.1 PK			1.40 H	256	76.8	34.3
4	*2404	108.4 AV			1.40 H	256	74.1	34.3
5	4808	50.7 PK	74.0	-23.3	1.09 H	251	44.2	6.5
6	4808	37.6 AV	54.0	-16.4	1.09 H	251	31.1	6.5
7	8387.9	57.7 PK	74.0	-16.3	1.02 H	247	46.7	11.0
8	8387.9	45.8 AV	54.0	-8.2	1.02 H	247	34.8	11.0

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

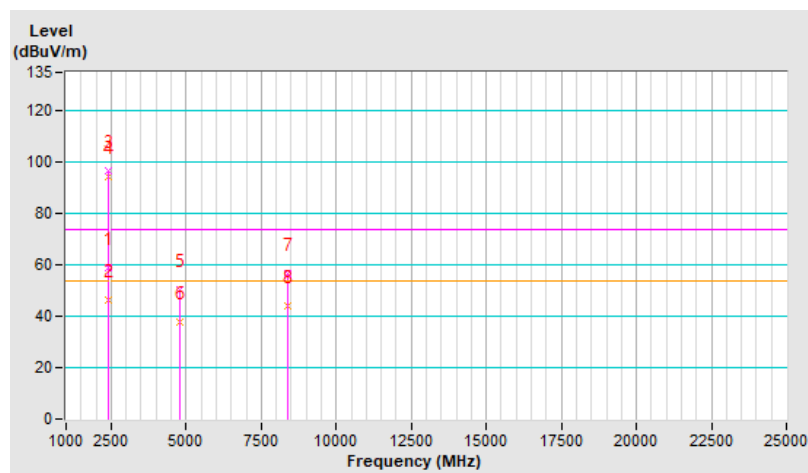


Combination	6		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	2390	59.2 PK	74.0	-14.8	3.26 V	261	24.9	34.3
2	2390	46.3 AV	54.0	-7.7	3.26 V	261	12.0	34.3
3	*2404	96.7 PK			3.26 V	261	62.4	34.3
4	*2404	94.1 AV			3.26 V	261	59.8	34.3
5	4808	50.4 PK	74.0	-23.6	1.77 V	16	43.9	6.5
6	4808	37.5 AV	54.0	-16.5	1.77 V	16	31.0	6.5
7	8387.9	56.7 PK	74.0	-17.3	1.08 V	231	45.7	11.0
8	8387.9	43.9 AV	54.0	-10.1	1.08 V	231	32.9	11.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



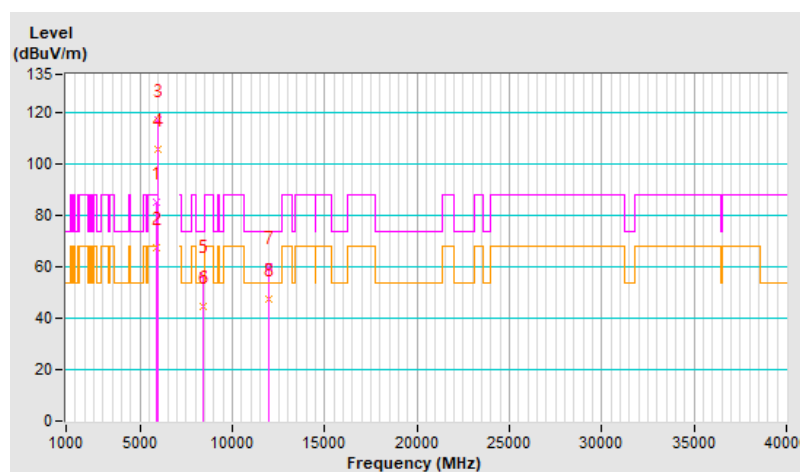
FCC 15.407

Combination	6		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	#5925	85.3 PK	88.2	-2.9	2.23 H	246	78.8	6.5
2	#5925	67.6 AV	68.2	-0.6	2.23 H	246	61.1	6.5
3	*5985	117.2 PK			2.23 H	246	74.6	42.6
4	*5985	105.9 AV			2.23 H	246	63.3	42.6
5	8387.9	56.5 PK	74.0	-17.5	1.97 H	342	45.1	11.4
6	8387.9	44.5 AV	54.0	-9.5	1.97 H	342	33.1	11.4
7	11970	60.2 PK	74.0	-13.8	1.80 H	347	49.6	10.6
8	11970	47.3 AV	54.0	-6.7	1.80 H	347	36.7	10.6

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.

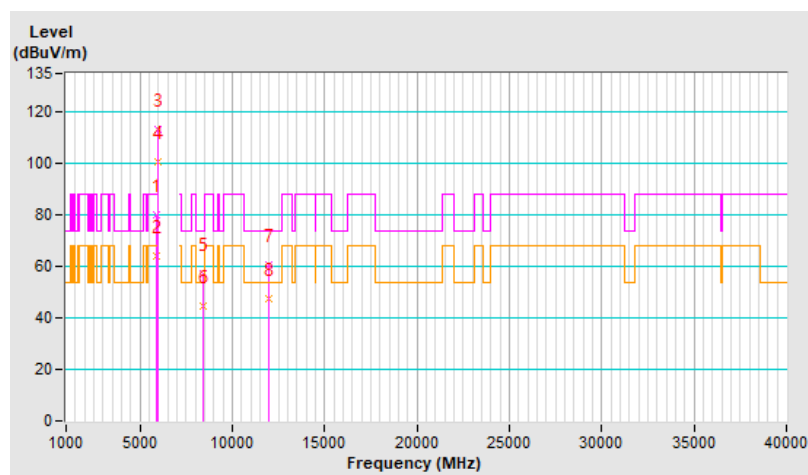


Combination	6		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	#5925	80.0 PK	88.2	-8.2	2.24 V	249	73.5	6.5
2	#5925	64.0 AV	68.2	-4.2	2.24 V	249	57.5	6.5
3	*5985	113.0 PK			2.24 V	249	70.4	42.6
4	*5985	100.6 AV			2.24 V	249	58.0	42.6
5	8387.9	57.2 PK	74.0	-16.8	1.17 V	342	45.8	11.4
6	8387.9	44.8 AV	54.0	-9.2	1.17 V	342	33.4	11.4
7	11970	60.5 PK	74.0	-13.5	1.83 V	148	49.9	10.6
8	11970	47.5 AV	54.0	-6.5	1.83 V	148	36.9	10.6

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.



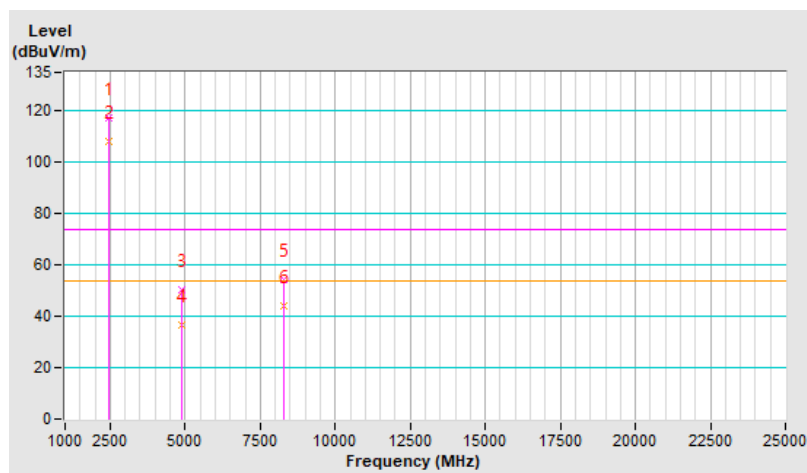
FCC 15.247

Combination	7		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	*2437	117.2 PK			1.14 H	260	83.0	34.2
2	*2437	108.3 AV			1.14 H	260	74.1	34.2
3	4874	50.1 PK	74.0	-23.9	2.76 H	60	43.9	6.2
4	4874	36.6 AV	54.0	-17.4	2.76 H	60	30.4	6.2
5	8267.98	54.4 PK	74.0	-19.6	3.61 H	100	43.6	10.8
6	8267.98	43.9 AV	54.0	-10.1	3.61 H	100	33.1	10.8

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.

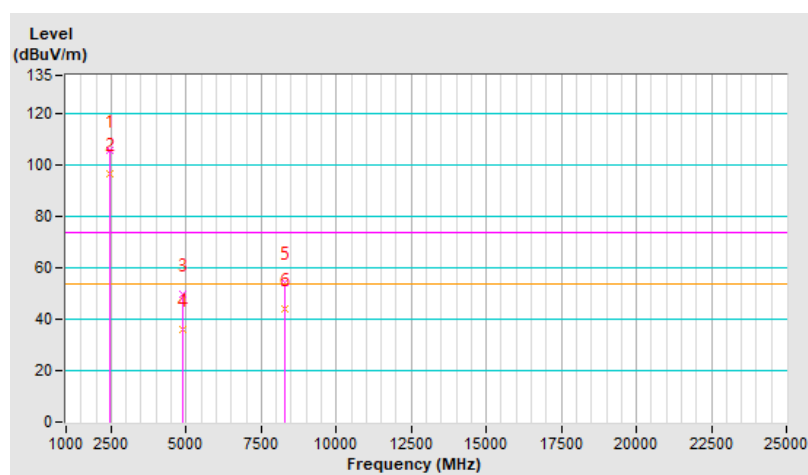


Combination	7		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	*2437	105.7 PK			1.05 V	295	71.5	34.2
2	*2437	96.5 AV			1.05 V	295	62.3	34.2
3	4874	49.8 PK	74.0	-24.2	1.21 V	51	43.6	6.2
4	4874	36.3 AV	54.0	-17.7	1.21 V	51	30.1	6.2
5	8267.98	54.5 PK	74.0	-19.5	1.11 V	245	43.7	10.8
6	8267.98	44.0 AV	54.0	-10.0	1.11 V	245	33.2	10.8

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.



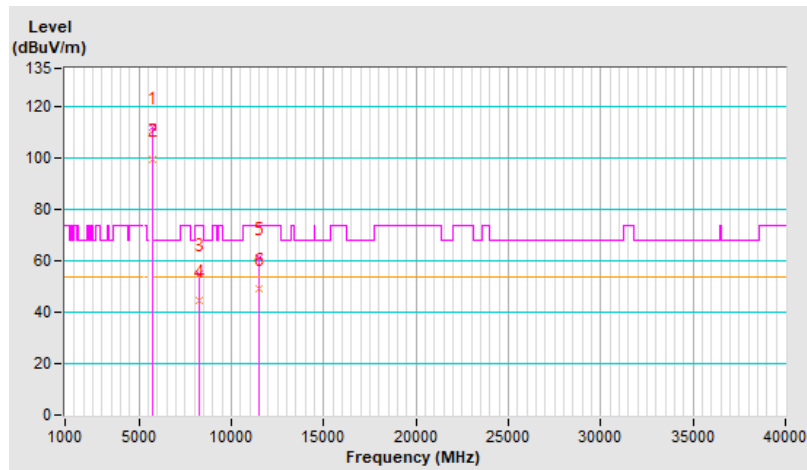
FCC 15.407

Combination	7		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	*5745	112.1 PK			1.27 H	255	70.3	41.8
2	*5745	99.8 AV			1.27 H	255	58.0	41.8
3	8267.98	55.0 PK	74.0	-19.0	3.61 H	100	43.6	11.4
4	8267.98	44.5 AV	54.0	-9.5	3.61 H	100	33.1	11.4
5	11490	61.1 PK	74.0	-12.9	2.77 H	47	48.1	13.0
6	11490	49.2 AV	54.0	-4.8	2.77 H	47	36.2	13.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

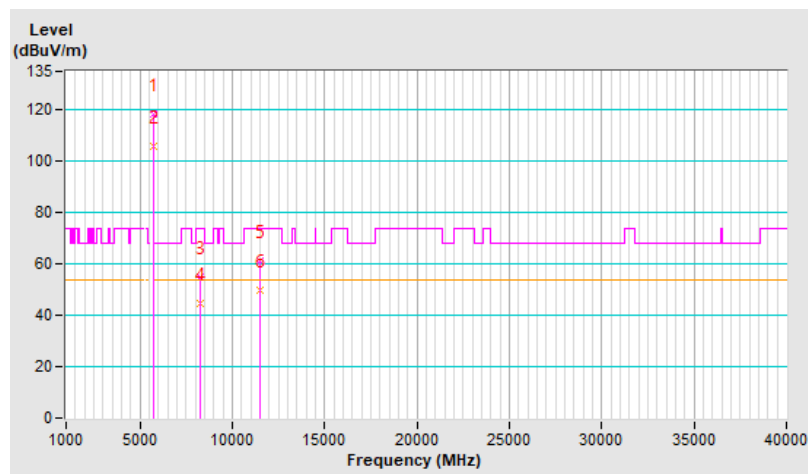


Combination	7		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	*5745	118.2 PK			1.18 V	250	76.4	41.8
2	*5745	106.0 AV			1.18 V	250	64.2	41.8
3	8267.98	55.1 PK	74.0	-18.9	1.11 V	245	43.7	11.4
4	8267.98	44.6 AV	54.0	-9.4	1.11 V	245	33.2	11.4
5	11490	61.4 PK	74.0	-12.6	2.11 V	135	48.4	13.0
6	11490	49.5 AV	54.0	-4.5	2.11 V	135	36.5	13.0

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



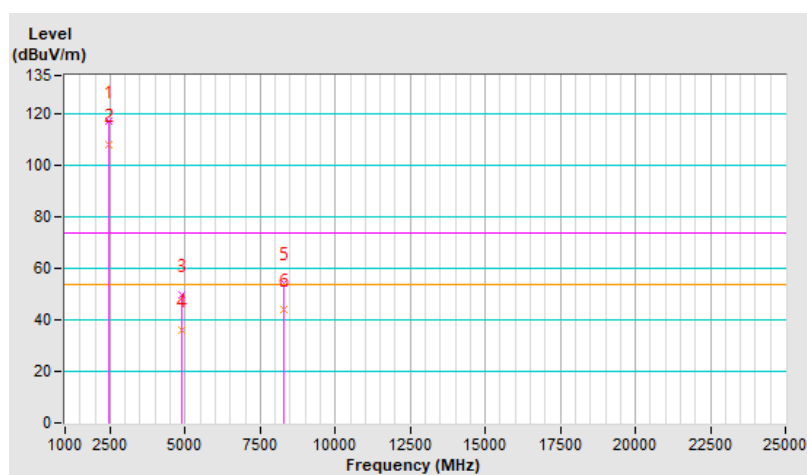
FCC 15.247

Combination	8		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	*2437	117.0 PK			1.12 H	263	82.8	34.2
2	*2437	108.2 AV			1.12 H	263	74.0	34.2
3	4874	50.0 PK	74.0	-24.0	2.34 H	51	43.8	6.2
4	4874	36.3 AV	54.0	-17.7	2.34 H	51	30.1	6.2
5	8266.43	54.6 PK	74.0	-19.4	2.43 H	186	43.7	10.9
6	8266.43	44.2 AV	54.0	-9.8	2.43 H	186	33.3	10.9

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.

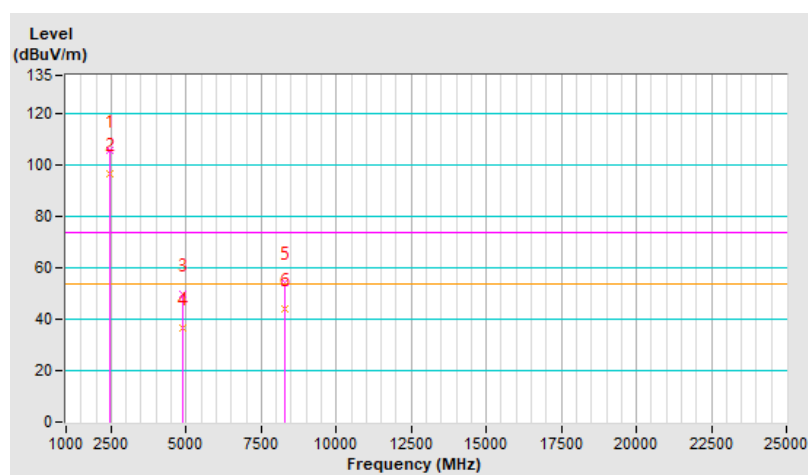


Combination	8		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	*2437	105.9 PK			1.02 V	286	71.7	34.2
2	*2437	96.7 AV			1.02 V	286	62.5	34.2
3	4874	49.7 PK	74.0	-24.3	1.23 V	64	43.5	6.2
4	4874	36.5 AV	54.0	-17.5	1.23 V	64	30.3	6.2
5	8266.43	54.4 PK	74.0	-19.6	1.25 V	235	43.5	10.9
6	8266.43	43.9 AV	54.0	-10.1	1.25 V	235	33.0	10.9

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.



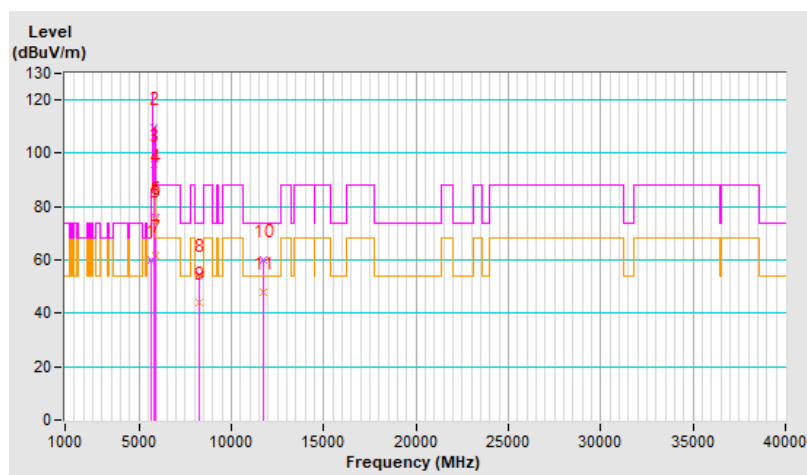
FCC 15.407

Combination	8		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	#5650	60.2 PK	68.2	-8.0	1.10 H	262	54.4	5.8
2	*5855	109.8 PK			1.10 H	262	67.4	42.4
3	*5855	96.0 AV			1.10 H	262	53.6	42.4
4	#5895	88.1 PK	110.2	-22.1	1.10 H	262	81.7	6.4
5	#5895	75.0 AV	90.2	-15.2	1.10 H	262	68.6	6.4
6	#5925	76.1 PK	88.2	-12.1	1.10 H	262	69.6	6.5
7	#5925	61.6 AV	68.2	-6.6	1.10 H	262	55.1	6.5
8	8266.43	54.6 PK	74.0	-19.4	2.43 H	186	43.1	11.5
9	8266.43	44.2 AV	54.0	-9.8	2.43 H	186	32.7	11.5
10	11710	59.8 PK	74.0	-14.2	1.83 H	228	48.4	11.4
11	11710	47.7 AV	54.0	-6.3	1.83 H	228	36.3	11.4

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.

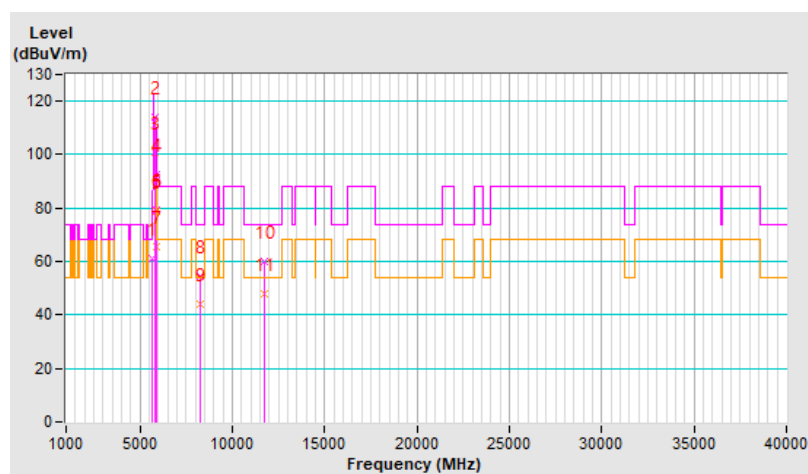


Combination	8		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	#5650	61.3 PK	68.2	-6.9	1.17 V	251	55.5	5.8
2	*5855	114.2 PK			1.17 V	251	71.8	42.4
3	*5855	101.0 AV			1.17 V	251	58.6	42.4
4	#5895	92.5 PK	110.2	-17.7	1.17 V	251	86.1	6.4
5	#5895	78.9 AV	90.2	-11.3	1.17 V	251	72.5	6.4
6	#5925	79.3 PK	88.2	-8.9	1.17 V	251	72.8	6.5
7	#5925	65.7 AV	68.2	-2.5	1.17 V	251	59.2	6.5
8	8266.43	54.4 PK	74.0	-19.6	1.25 V	235	42.9	11.5
9	8266.43	43.9 AV	54.0	-10.1	1.25 V	235	32.4	11.5
10	11710	60.0 PK	74.0	-14.0	2.94 V	180	48.6	11.4
11	11710	48.0 AV	54.0	-6.0	2.94 V	180	36.6	11.4

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.



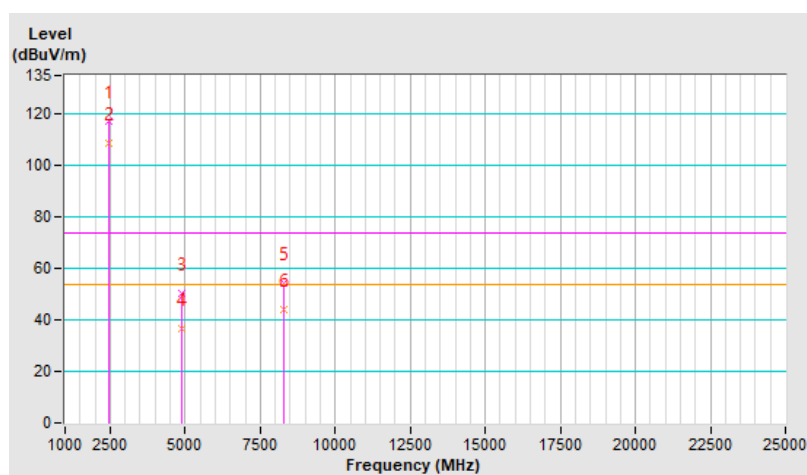
FCC 15.247

Combination	9		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	*2437	117.2 PK			1.24 H	258	83.0	34.2
2	*2437	108.5 AV			1.24 H	258	74.3	34.2
3	4874	50.4 PK	74.0	-23.6	2.21 H	148	44.2	6.2
4	4874	36.6 AV	54.0	-17.4	2.21 H	148	30.4	6.2
5	8263.17	54.3 PK	74.0	-19.7	2.30 H	112	43.5	10.8
6	8263.17	44.1 AV	54.0	-9.9	2.30 H	112	33.3	10.8

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.

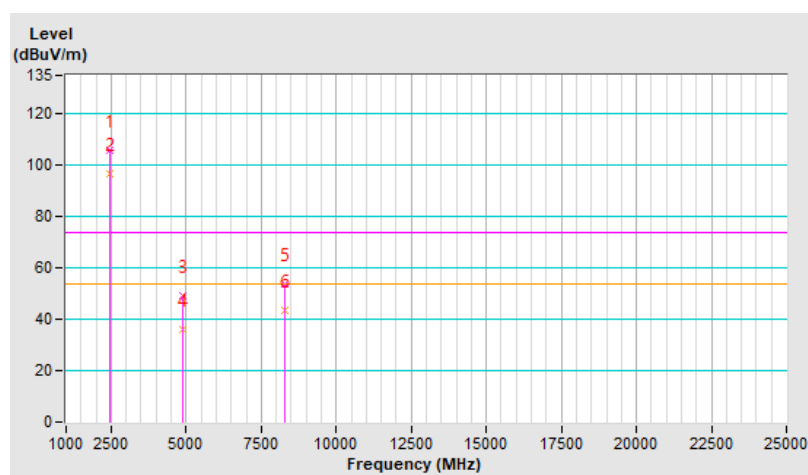


Combination	9		
Frequency Range	1 GHz ~ 25 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	*2437	105.7 PK			1.16 V	275	71.5	34.2
2	*2437	96.5 AV			1.16 V	275	62.3	34.2
3	4874	49.4 PK	74.0	-24.6	1.35 V	38	43.2	6.2
4	4874	36.2 AV	54.0	-17.8	1.35 V	38	30.0	6.2
5	8263.17	54.0 PK	74.0	-20.0	1.83 V	225	43.2	10.8
6	8263.17	43.6 AV	54.0	-10.4	1.83 V	225	32.8	10.8

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.



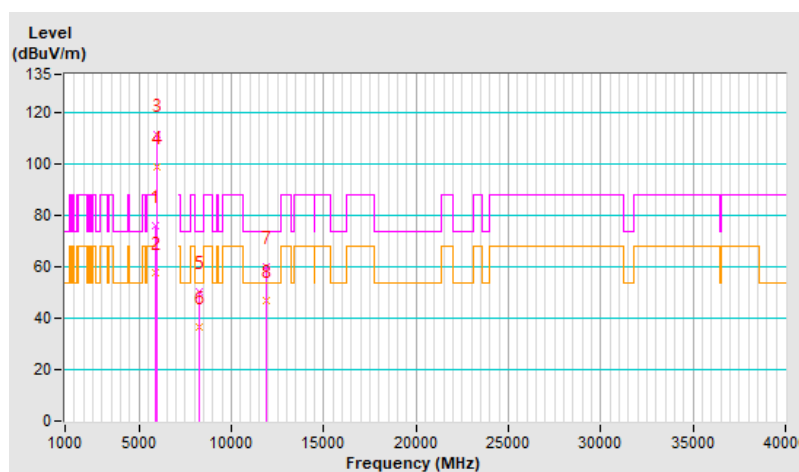
FCC 15.407

Combination	9		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	#5925	76.2 PK	88.2	-12.0	1.06 H	262	69.7	6.5
2	#5925	57.9 AV	68.2	-10.3	1.06 H	262	51.4	6.5
3	*5965	111.4 PK			1.06 H	262	68.8	42.6
4	*5965	98.8 AV			1.06 H	262	56.2	42.6
5	8263.17	50.4 PK	74.0	-23.6	2.30 H	112	39.0	11.4
6	8263.17	36.6 AV	54.0	-17.4	2.30 H	112	25.2	11.4
7	11930	60.0 PK	74.0	-14.0	2.37 H	114	49.5	10.5
8	11930	46.9 AV	54.0	-7.1	2.37 H	114	36.4	10.5

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.

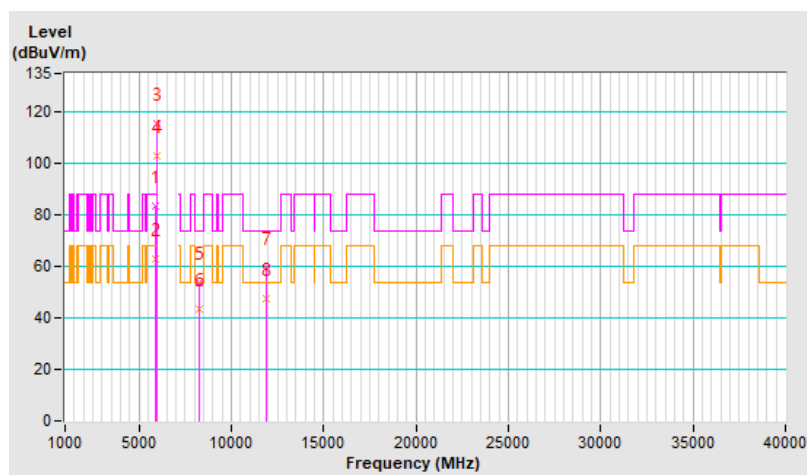


Combination	9		
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 62 % RH
Tested By	Vincent Chen		

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	#5925	83.7 PK	88.2	-4.5	1.12 V	248	77.2	6.5
2	#5925	63.1 AV	68.2	-5.1	1.12 V	248	56.6	6.5
3	*5965	115.6 PK			1.12 V	248	73.0	42.6
4	*5965	103.0 AV			1.12 V	248	60.4	42.6
5	8263.17	54.0 PK	74.0	-20.0	1.83 V	225	42.6	11.4
6	8263.17	43.6 AV	54.0	-10.4	1.83 V	225	32.2	11.4
7	11930	59.3 PK	74.0	-14.7	1.34 V	139	48.8	10.5
8	11930	47.3 AV	54.0	-6.7	1.34 V	139	36.8	10.5

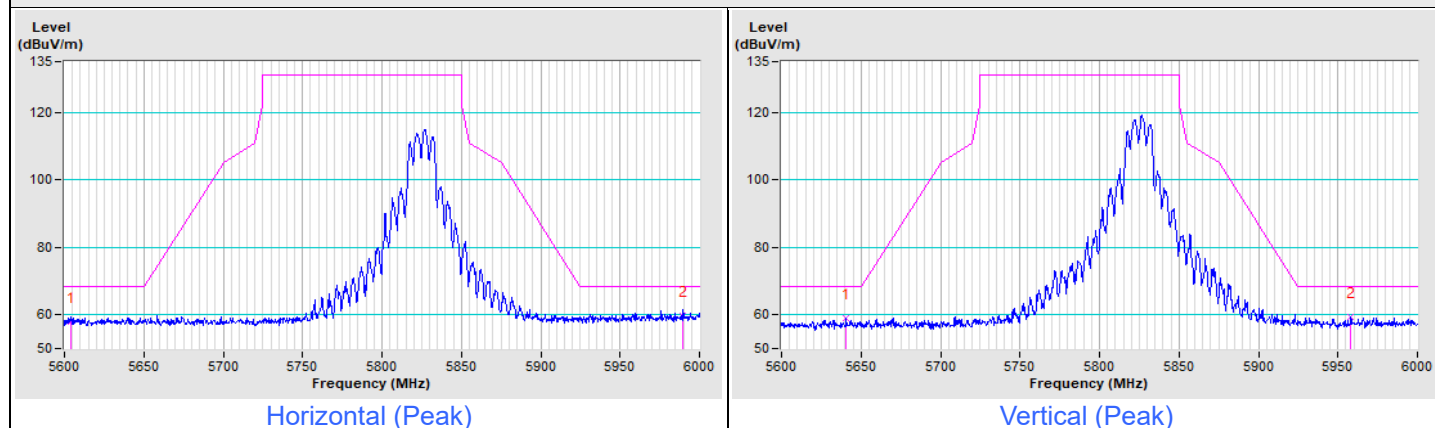
Remarks:

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.

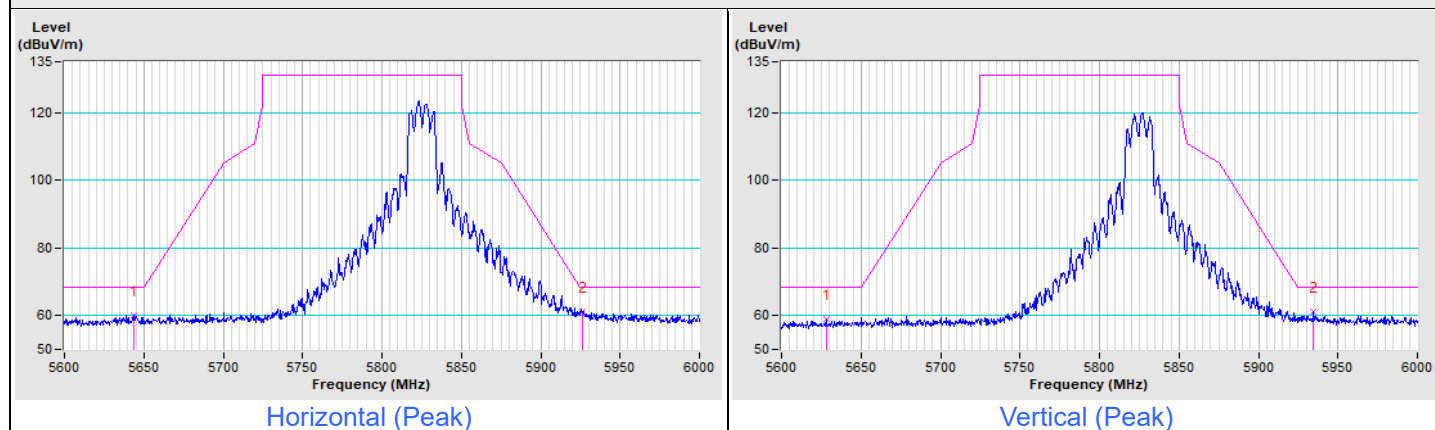


Plot of Band Edge

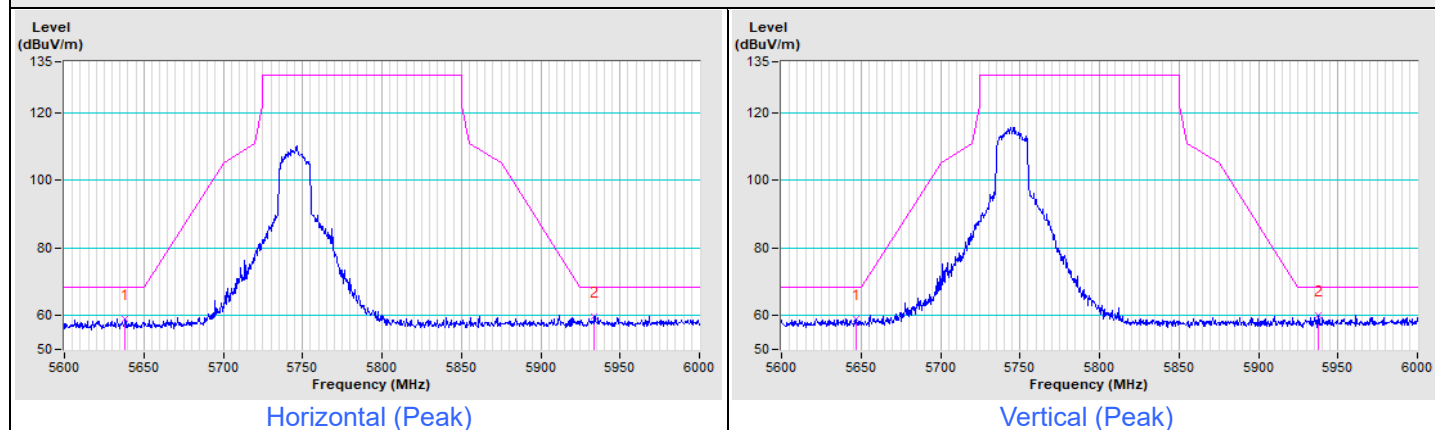
Combination 1



Combination 2



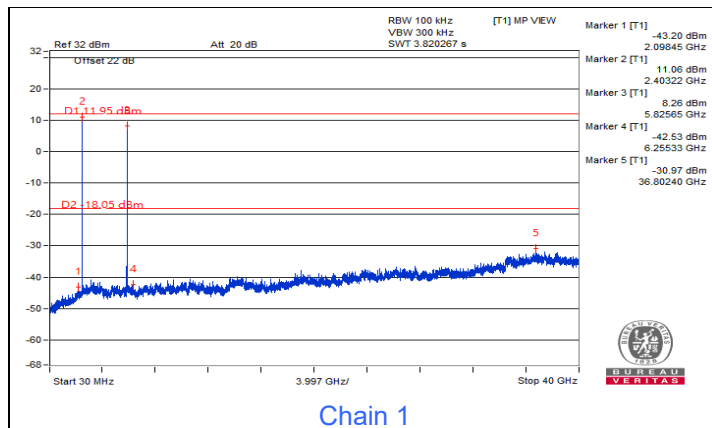
Combination 7



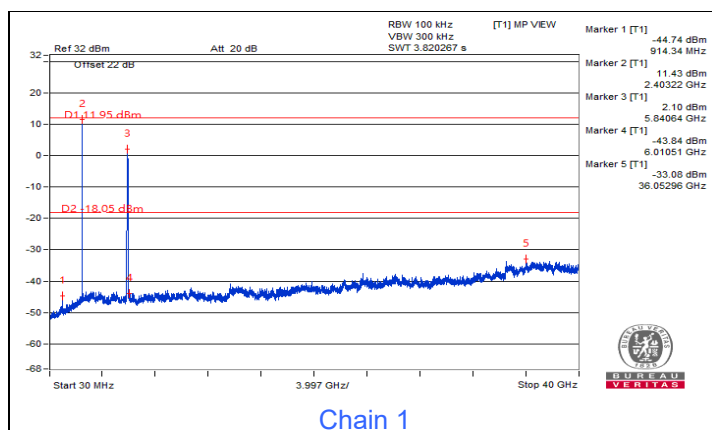
7.3 Conducted Out of Band Emissions

Input Power:	3.3 Vdc	Environmental Conditions:	22°C, 60% RH	Tested By:	Henry Hsu
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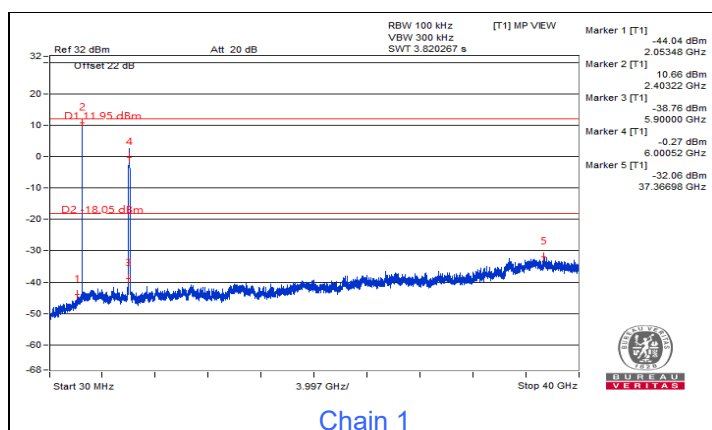
Combination 10



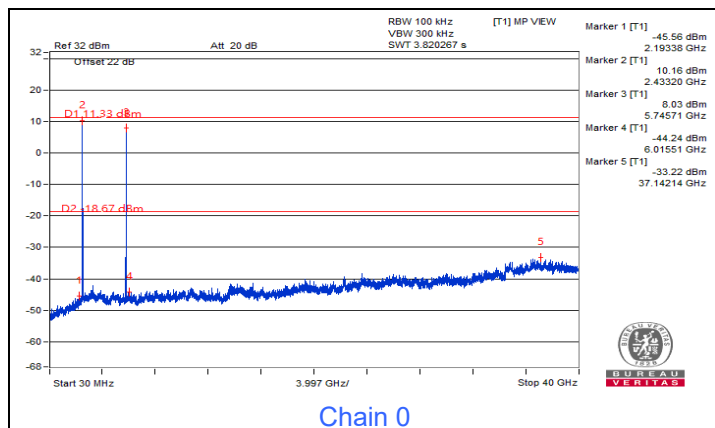
Combination 11



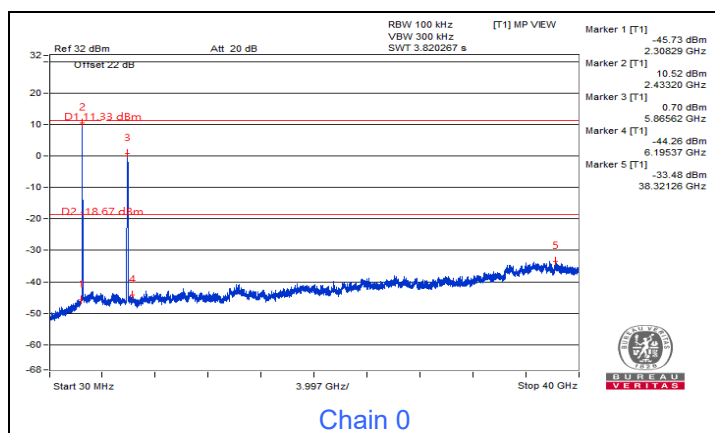
Combination 12



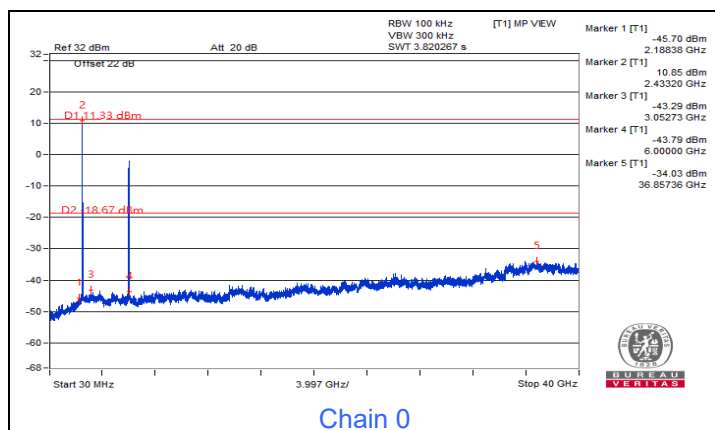
Combination 13



Combination 14



Combination 15



8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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.

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

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

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.

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