

Partial FCC Test Report

Report No.: RF160613C32-3

FCC ID: PPD-QCNFA364AH

Test Model: QCNFA364A

Received Date: Jun. 02, 2016

Test Date: Jun. 02, 2016 ~ Jun. 04, 2016

Issued Date: Jun. 15, 2016

Applicant: Qualcomm Atheros, Inc.

Address: 1700 Technology Dr San Jose, CA 95110

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

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(R.O.C)

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R.O.C



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Release Control Record

Issue No.	Description	Date Issued
RF160613C32-3	Original Release	Jun. 15, 2016

1 Certificate of Conformity

Product: 802.11a/b/g/n/ac + BT 4.1 M.2 2230 Type Card

Brand: Qualcomm Atheros

Test Model: QCNFA364A

Sample Status: Production Unit

Applicant: Qualcomm Atheros, Inc.

Test Date: Jun. 02, 2016 ~ Jun. 04, 2016

Standards: 47 CFR FCC Part 15, Subpart E (Section 15.407)
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 EMC characteristics under the conditions specified in this report.

Prepared by : Evonne Liu, **Date:** Jun. 15, 2016
Evonne Liu / Specialist

Approved by : Stanley Wu, **Date:** Jun. 15, 2016
Stanley Wu / Assistant Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	N/A	Refer to Note
15.407(b) (1/2/3/4/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.04 dB at 5350 MHz.
15.407(a)(1/2 /3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
15.407(a)(1/2 /3)	Peak Power Spectral Density	N/A	Refer to Note
15.407(e)	6 dB Bandwidth	N/A	Refer to Note
15.407(g)	Frequency Stability	N/A	Refer to Note
15.203	Antenna Requirement	N/A	Refer to Note

Note: Only test item of Maximum Output Power and Radiated Emissions were performed for this report and the conducted data is referring to module report (Report No.: RF150107E07-1 R1, Issue Date: Mar. 18, 2015).

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expended Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.0153 dB
	200 MHz ~1000 MHz	2.0224 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	1.0121 dB
	18 GHz ~ 40 GHz	1.1508 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	802.11a/b/g/n/ac + BT 4.1 M.2 2230 Type Card
Brand	Qualcomm Atheros
Test Model	QCNFA364A
Status of EUT	Production Unit
Power Supply Rating	3.3 Vdc (host equipment)
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK
Modulation Technology	OFDM
Transfer Rate	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0 Mbps 802.11n: up to MCS7 802.11ac: up to V9
Operating Frequency	5180 ~ 5240 MHz, 5260 ~ 5320 MHz, 5500 ~ 5720 MHz, 5745 ~ 5825 MHz
Number of Channel	5180 ~ 5240 MHz: 4 for 802.11a, 802.11n (HT20) 2 for 802.11n (HT40) 1 for 802.11ac (VHT80) 5260 ~ 5320 MHz: 4 for 802.11a, 802.11n (HT20) 2 for 802.11n (HT40) 1 for 802.11ac (VHT80) 5500 ~ 5720 MHz: 12 for 802.11a, 802.11n (HT20) 6 for 802.11n (HT40) 3 for 802.11ac (VHT80) 5745 ~ 5825 MHz: 5 for 802.11a, 802.11n (HT20) 2 for 802.11n (HT40) 1 for 802.11ac (VHT80)
Output Power	62.73 mW for 5180 ~ 5240 MHz 96.62 mW for 5260 ~ 5320 MHz 96.99 mW for 5500 ~ 5720 MHz 93.012 mW for 5745 ~ 5825 MHz
Antenna Type	Refer to Note as below
Antenna Connector	N/A
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below

Note:

1. The EUT was installed in Portable Computer (Brand: Dell, Model: P56F).
2. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

Modulation Mode	Tx Function
802.11a	2TX
802.11ac (HT20)	2TX
802.11ac (HT40)	2TX
802.11ac (VHT80)	2TX

* The modulation and bandwidth are similar for 802.11n mode for HT20 / HT40 and 802.11ac mode for HT20 / HT40, therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

3. The antenna information is listed as below.

Antenna Type	Manuf.	Part Number	Antenna Gain (dBi)			
			2.4GHz	5.3 GHz	5.6 GHz	5.8 GHz
PIFA	ACON	WLAN Main Antenna: APL6Y-700002 WLAN Aux. Antenna: APL6Y-700002	Main: 1.01 Aux.: -0.07	Main: 2.77 Aux.: 0.97	Main: 1.65 Aux.: 1.72	Main: 1.65 Aux.: 1.72
	TE	WLAN Main Antenna: 1556723-1 WLAN Aux. Antenna: 1556723-1	Main: -2.24 Aux.: -1.97	Main: -0.33 Aux.: -2.98	Main: -3.26 Aux.: -2.22	Main: -2.40 Aux.: -2.22

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

3.2 Description of Test Modes

FOR 5180 ~ 5240 MHz

4 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
40	5200	48	5240

2 channels are provided for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency (MHz)
42	5210

FOR 5260 ~ 5320 MHz

4 channels are provided for 802.11a, 802.11n (HT20):

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

2 channels are provided for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	62	5310

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency (MHz)
58	5290

FOR 5500 ~ 5720 MHz

12 channels are provided for 802.11a, 802.11n (HT20):

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

6 channels are provided for 802.11n (HT40):

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

3 channels are provided for 802.11ac (VHT80):

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

FOR 5745 ~ 5825 MHz:

5 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	161	5805
153	5765	165	5825
157	5785		

2 channels are provided for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency (MHz)
155	5775

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
-	√	√	-	-	-

Where **RE $\geq$ 1G**: Radiated Emission above 1 GHz

RE<1G: Radiated Emission below 1 GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE:

1. “-” means no effect.

Radiated Emission Test (Above 1 GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

EUT Configure Mode	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	5180-5240	802.11a	36 to 48	36, 44, 48	OFDM	BPSK	6.0
-		802.11n (HT20)	36 to 48	36, 44, 48	OFDM	BPSK	MCS0
-		802.11n (HT40)	38 to 46	38, 46	OFDM	BPSK	MCS0
-		802.11ac (VHT80)	42	42	OFDM	BPSK	V0
-	5260-5320	802.11a	52 to 64	52, 60, 64	OFDM	BPSK	6.0
-		802.11n (HT20)	52 to 64	52, 60, 64	OFDM	BPSK	MCS0
-		802.11n (HT40)	54 to 62	54, 62	OFDM	BPSK	MCS0
-		802.11ac (VHT80)	58	58	OFDM	BPSK	V0
-	5500-5700	802.11a	100 to 140	100, 116, 140	OFDM	BPSK	6.0
-		802.11n (HT20)	100 to 140	100, 116, 140	OFDM	BPSK	MCS0
-		802.11n (HT40)	102 to 134	102, 110, 134	OFDM	BPSK	MCS0
-		802.11ac (VHT80)	106 to 122	106, 122	OFDM	BPSK	V0
-	5745-5825	802.11a	149 to 165	149, 157, 165	OFDM	BPSK	6.0
-		802.11n (HT20)	149 to 165	149, 157, 165	OFDM	BPSK	MCS0
-		802.11n (HT40)	151 to 159	151, 159	OFDM	BPSK	MCS0
-		802.11ac (VHT80)	155	155	OFDM	BPSK	V0

Radiated Emission Test (Below 1 GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

EUT Configure Mode	Frequency Band (MHz)	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	5180-5240	802.11ac (VHT80)	42	42	OFDM	BPSK	V0
-	5260-5320	802.11n (HT40)	54 to 62	62	OFDM	BPSK	MCS0
-	5500-5700	802.11n (HT40)	102 to 134	102	OFDM	BPSK	MCS0
-	5745-5825	802.11n (HT40)	151 to 159	151	OFDM	BPSK	MCS0

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Charles Hsiao
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Karl Lee

3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

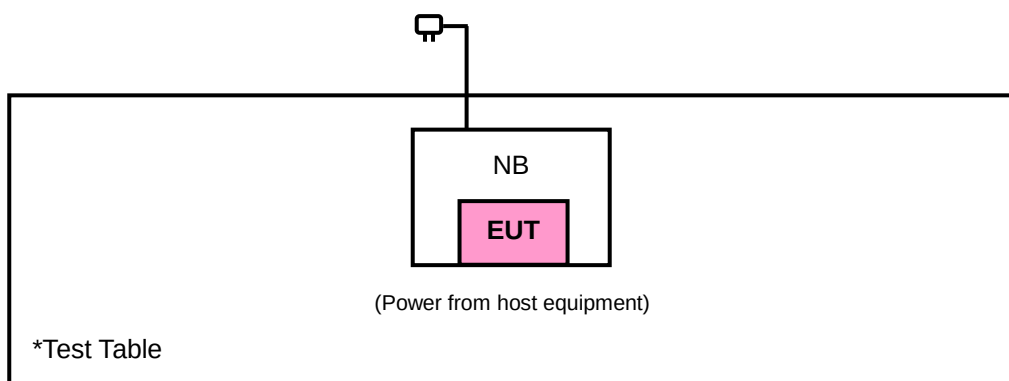
No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	NB	N/A	N/A	N/A	N/A

No.	Signal Cable Description Of The Above Support Units
1.	N/A

Note:

1. All power cords of the above support units are non-shielded (1.8m).

3.3.1 Configuration of System under Test



3.4 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)

789033 D02 General UNII Test Procedures New Rules v01r02

644545 D01 Guidance for IEEE 802 11ac v01r02

662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

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

NOTE:

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

4.1.2 Limits of Unwanted Emission Out of the Restricted Bands

Applicable To	Limit	
789033 D02 General UNII Test Procedures New Rules v01r02	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)		
15.407(b)(3)		
15.407(b)(4)	PK: -27 (dBm/MHz) ^{*1} PK: -17 (dBm/MHz) ^{*2}	PK: 68.2 (dBμV/m) ^{*1} PK: 78.2 (dBμV/m) ^{*2}

NOTE: ^{*1} beyond 10 MHz of the band edge ^{*2} within 10 MHz of band edge

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

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

4.1.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent Technologies	N9038A	MY50010135	Jul. 18, 2015	Jul. 17, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 17, 2015	Dec. 16, 2016
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Jan. 07, 2016	Jan. 06, 2017
HORN Antenna ETS-Lindgren	3117	00143293	Jan. 19, 2016	Jan. 18, 2017
Bluetooth Tester	CBT	100980	Apr. 27, 2015	Apr. 26, 2017
Loop Antenna	EM-6879	269	Jul. 31, 2015	Jul. 30, 2016
Agilent Communications Tester-Wireless	8960 Series 10	MY53201073	Jul. 03, 2015	Jul. 02, 2017
Preamplifier Agilent	310N	187226	Jun. 29, 2015	Jun. 28, 2016
Preamplifier Agilent	83017A	MY39501357	Jun. 29, 2015	Jun. 28, 2016
Power Meter Anritsu	ML2495A	1232002	Sep. 21, 2015	Sep. 20, 2016
Power Sensor Anritsu	MA2411B	1207325	Sep. 21, 2015	Sep. 20, 2016
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(R FC-SMS-100-SM S-120+RFC-SMS -100-SMS-400)	Jun. 27, 2015	Jun. 26, 2016
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(R FC-SMS-100-SM S-24)	Jun. 27, 2015	Jun. 26, 2016
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA

- Note: 1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HsinTien Chamber 1.
3. The horn antenna and preamplifier (model: 83017A) are used only for the measurement of emission frequency above 1 GHz if tested.
4. The FCC Site Registration No. is 149147.
5. The IC Site Registration No. is IC7450I-1.

4.1.4 Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) 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.
- f. The test-receiver system was set to peak and average detected 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.

Note:

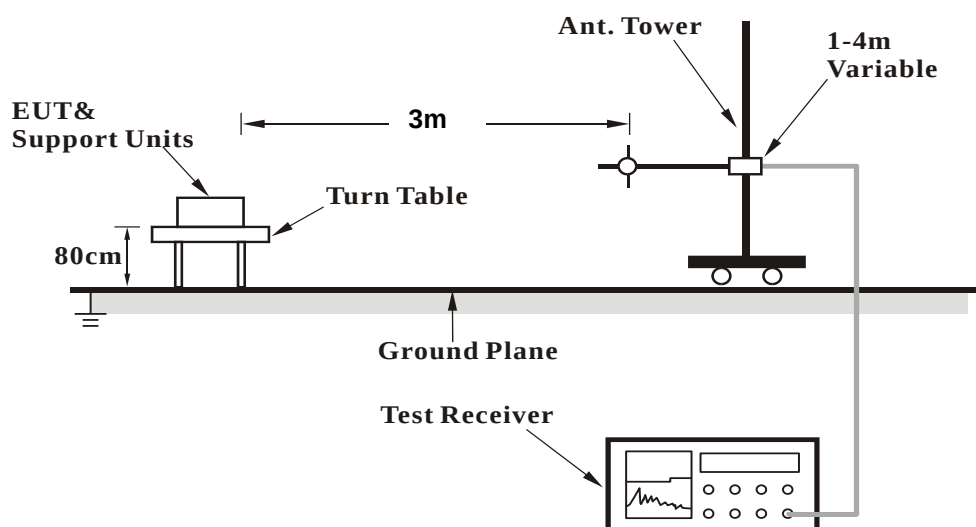
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for RMS Average (Duty cycle < 98 %) for Average detection (AV) at frequency above 1 GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

4.1.5 Deviation from Test Standard

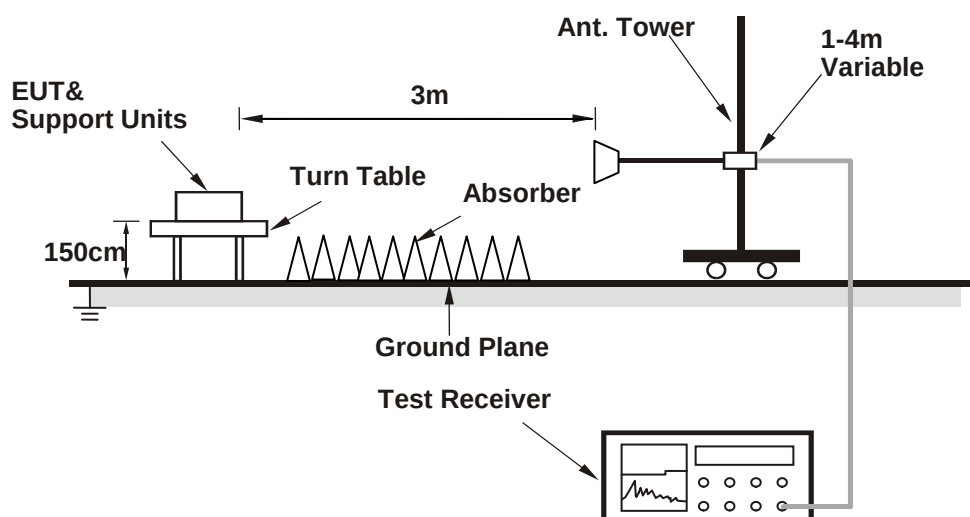
No deviation.

4.1.6 Test Set Up

<Frequency Range below 1 GHz>



<Frequency Range above 1 GHz>



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

4.1.7 EUT Operating Conditions

- Placed the EUT on a testing table.
- Use the software to control the EUT under transmission condition continuously at specific channel frequency.

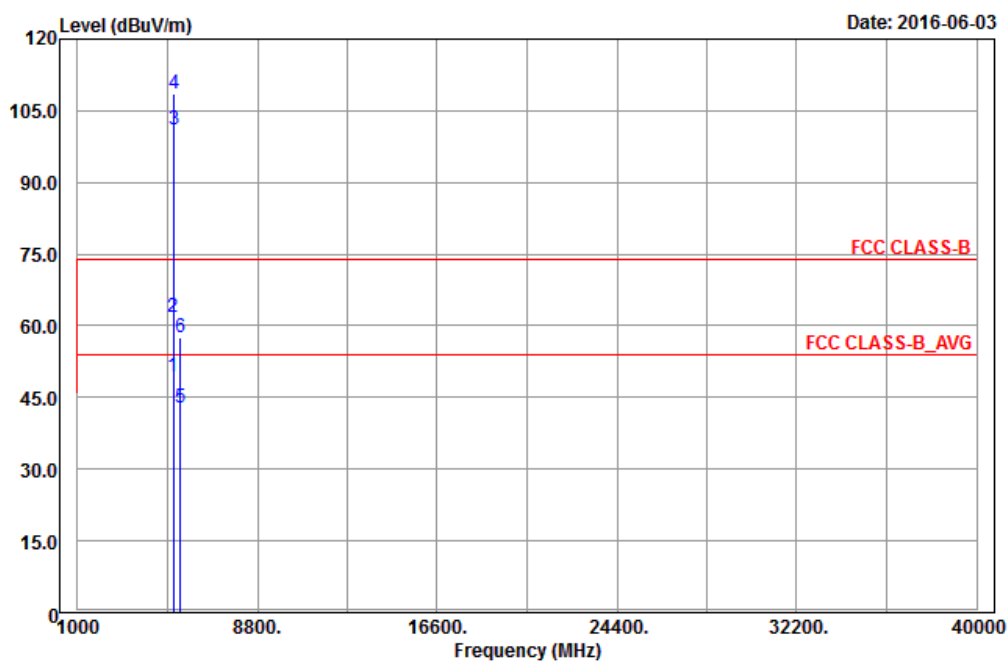
4.1.8 Test Results

Above 1 GHz Data :

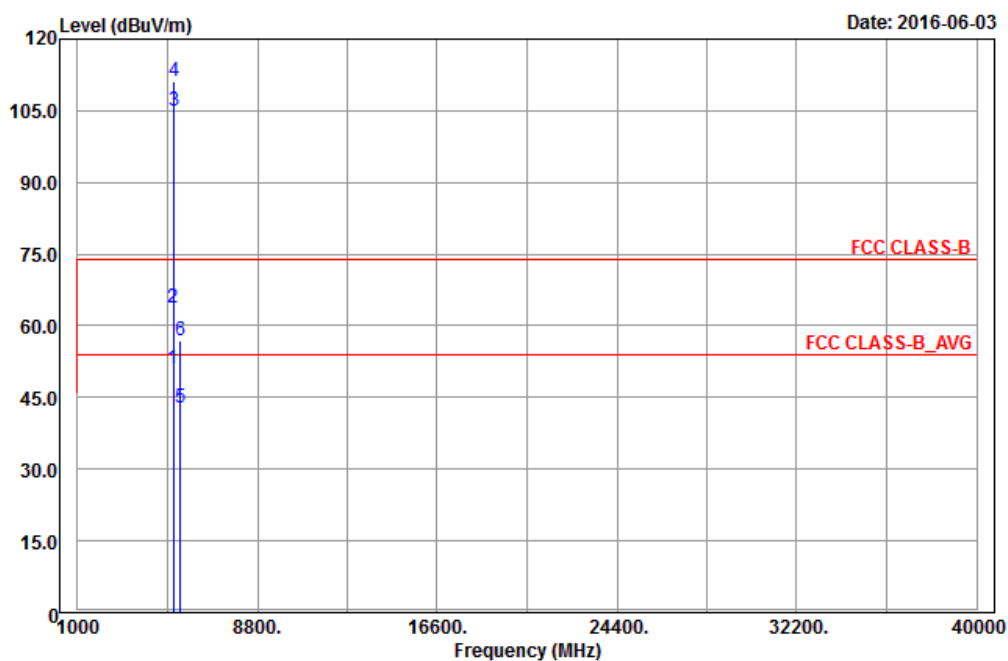
802.11a

EUT Test Condition		Measurement Detail	
Channel	Channel 36	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



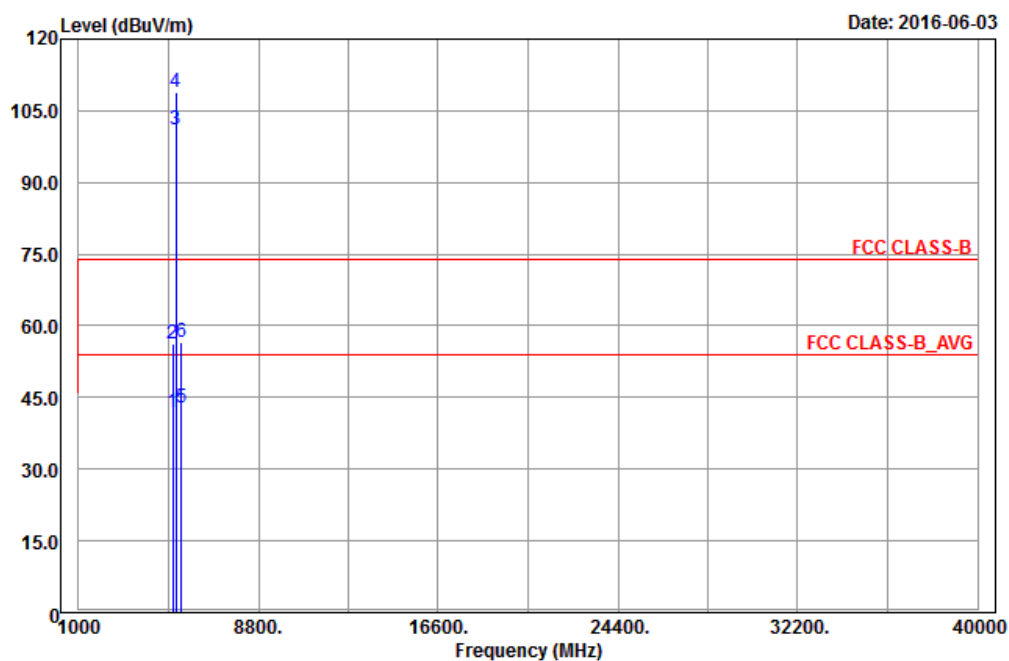
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5150	49.35	41.1	54	-4.65	34.12	8.13	34	240	358	Average
5150	61.83	53.58	74	-12.17	34.12	8.13	34	240	358	Peak
5180	101.01	92.7			34.15	8.16	34	270	358	Average
5180	108.7	100.39			34.15	8.16	34	270	358	Peak
5452	42.72	33.9	54	-11.28	34.36	8.51	34.05	270	358	Average
5452	57.45	48.63	74	-16.55	34.36	8.51	34.05	270	358	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5150	50.85	42.6	54	-3.15	34.12	8.13	34	111	18	Average
5150	63.89	55.64	74	-10.11	34.12	8.13	34	111	18	Peak
5180	104.81	96.5			34.15	8.16	34	103	18	Average
5180	111.19	102.88			34.15	8.16	34	103	18	Peak
5454	42.82	34	54	-11.18	34.36	8.51	34.05	103	18	Average
5454	56.94	48.12	74	-17.06	34.36	8.51	34.05	103	18	Peak

Remarks:

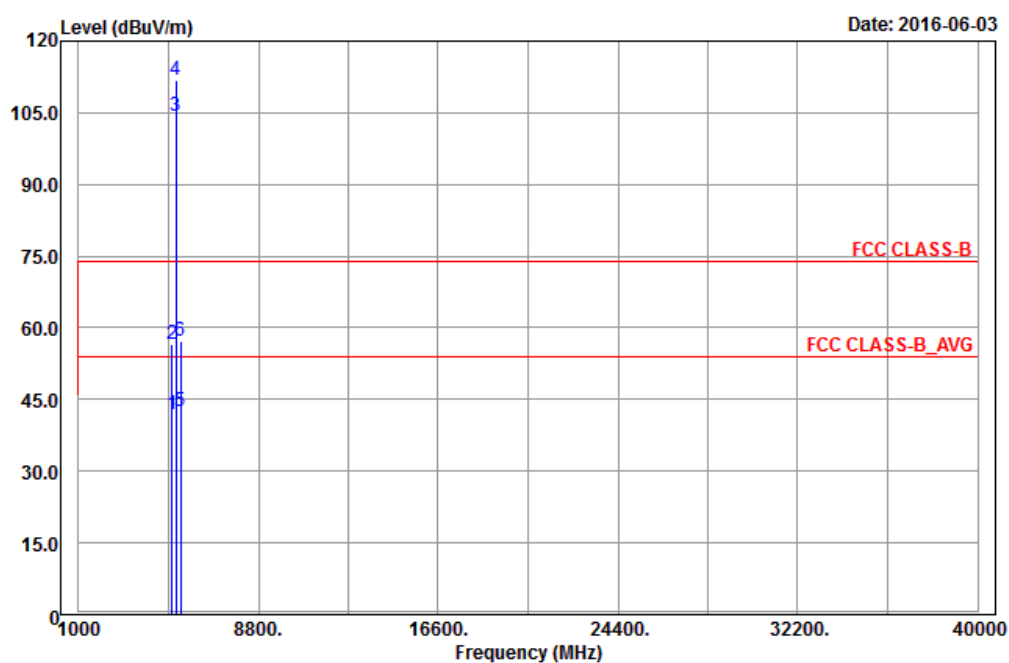
- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5180 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 44	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



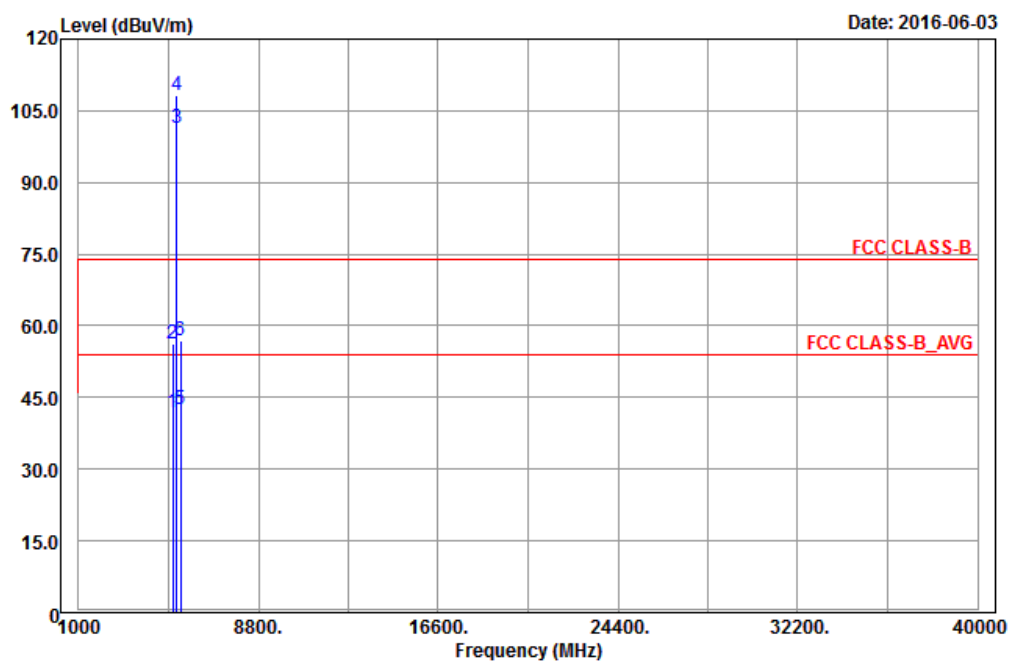
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5074	41.93	33.81	54	-12.07	34.07	8.03	33.98	240	358	Average
5074	56.19	48.07	74	-17.81	34.07	8.03	33.98	240	358	Peak
5220	101.15	92.76			34.17	8.22	34	240	358	Average
5220	108.91	100.52			34.17	8.22	34	240	358	Peak
5458	42.76	33.94	54	-11.24	34.36	8.51	34.05	240	358	Average
5458	56.43	47.61	74	-17.57	34.36	8.51	34.05	240	358	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5066	41.85	33.75	54	-12.15	34.05	8.03	33.98	103	18	Average
5066	56.58	48.48	74	-17.42	34.05	8.03	33.98	103	18	Peak
5220	104.15	95.76			34.17	8.22	34	103	18	Average
5220	111.98	103.59			34.17	8.22	34	103	18	Peak
5428	42.55	33.78	54	-11.45	34.33	8.48	34.04	103	18	Average
5428	57.35	48.58	74	-16.65	34.33	8.48	34.04	103	18	Peak

Remarks:

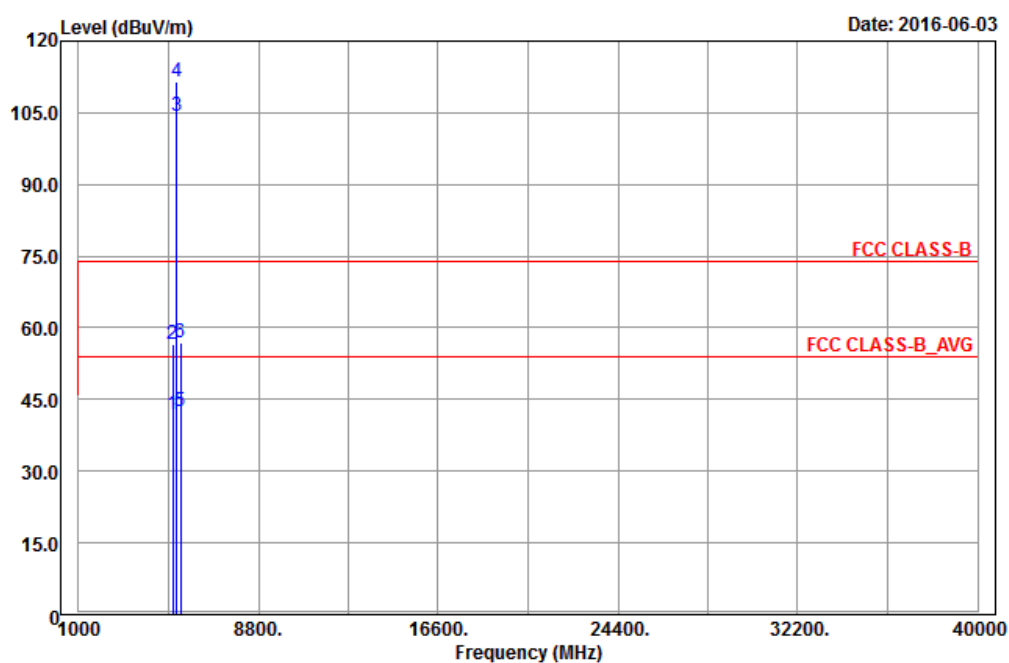
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5220 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 48	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



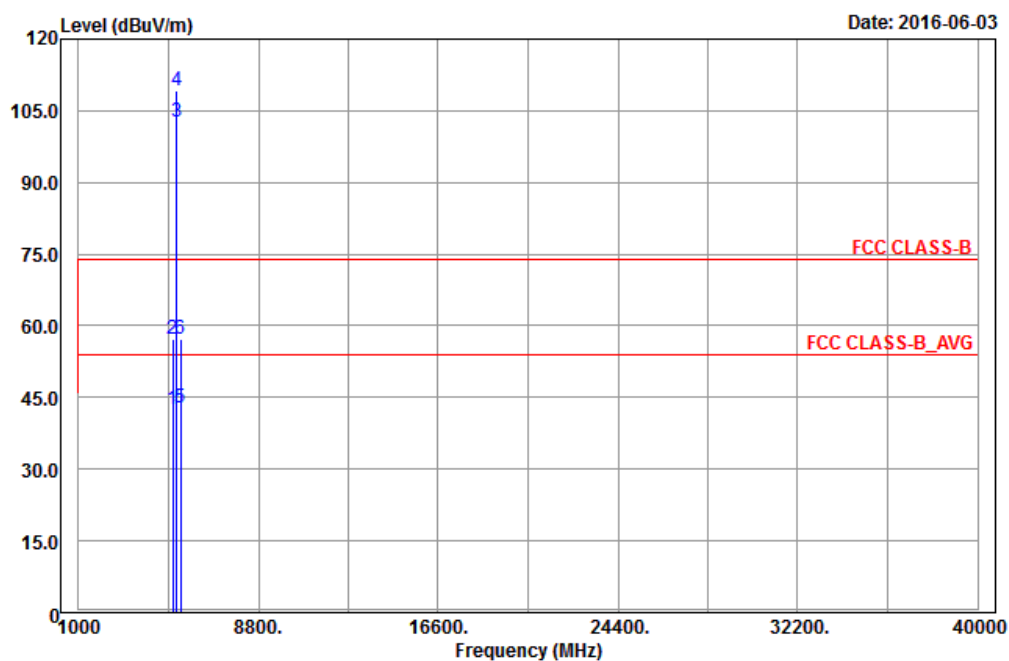
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5100	41.87	33.71	54	-12.13	34.08	8.07	33.99	240	358	Average
5100	56.25	48.09	74	-17.75	34.08	8.07	33.99	240	358	Peak
5240	101.44	93			34.19	8.26	34.01	240	358	Average
5240	108.12	99.68			34.19	8.26	34.01	240	358	Peak
5412	42.59	33.86	54	-11.41	34.33	8.44	34.04	240	358	Average
5412	56.96	48.23	74	-17.04	34.33	8.44	34.04	240	358	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5070	41.79	33.69	54	-12.21	34.05	8.03	33.98	103	18	Average
5070	56.65	48.55	74	-17.35	34.05	8.03	33.98	103	18	Peak
5240	104.41	95.97			34.19	8.26	34.01	103	18	Average
5240	111.44	103			34.19	8.26	34.01	103	18	Peak
5428	42.56	33.79	54	-11.44	34.33	8.48	34.04	103	18	Average
5428	57.05	48.28	74	-16.95	34.33	8.48	34.04	103	18	Peak

Remarks:

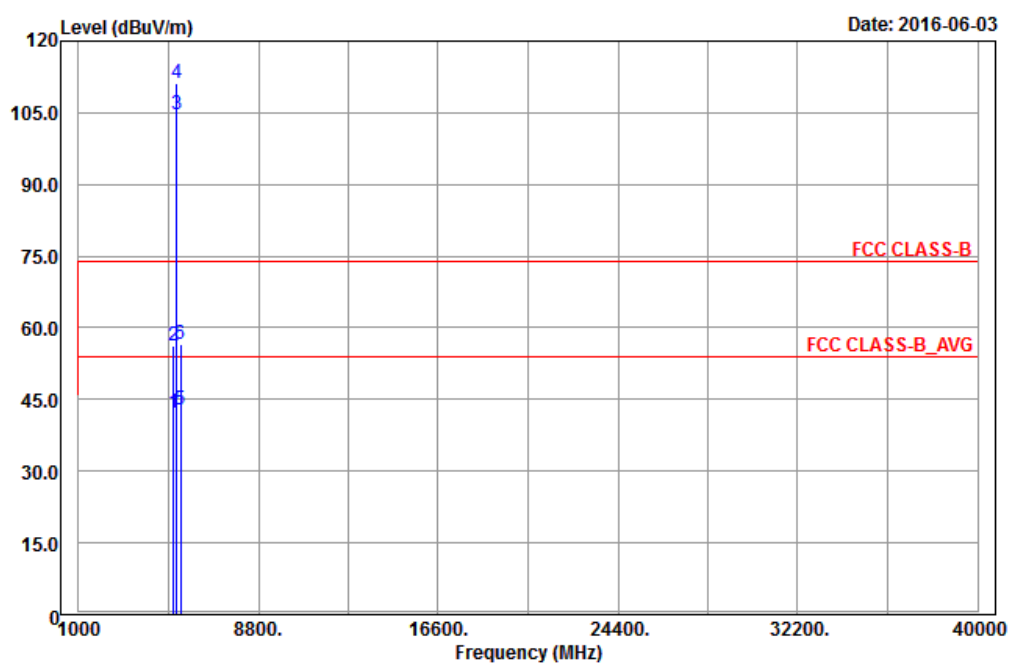
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5240 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 52	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



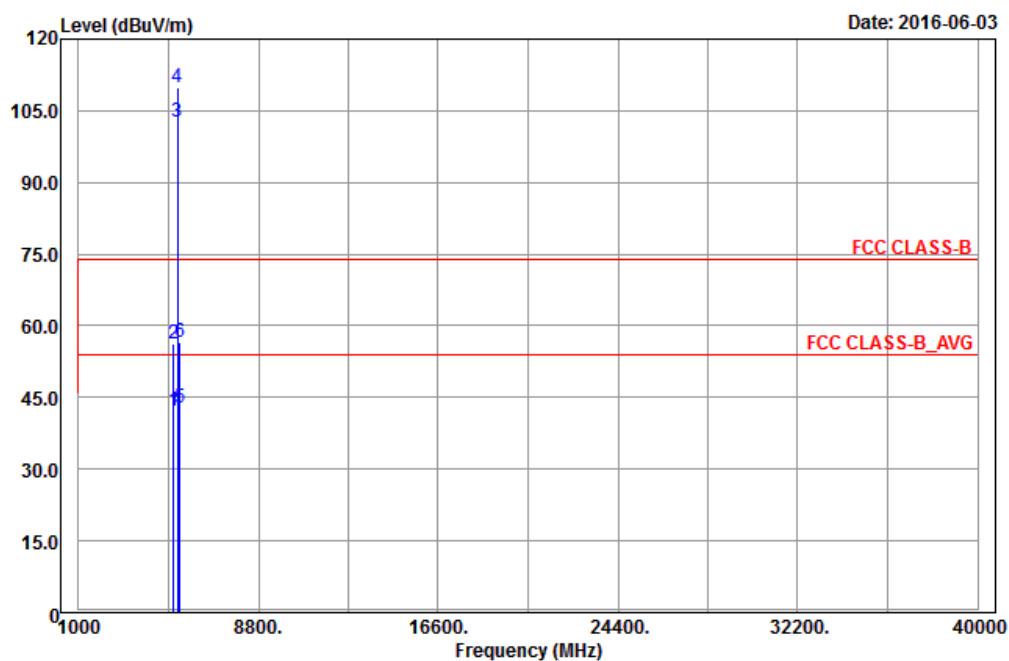
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5090	42.4	34.23	54	-11.6	34.08	8.07	33.98	300	360	Average
5090	57.33	49.16	74	-16.67	34.08	8.07	33.98	300	360	Peak
5260	102.67	94.21			34.21	8.26	34.01	300	360	Average
5260	109.08	100.62			34.21	8.26	34.01	300	360	Peak
5442	42.76	33.97	54	-11.24	34.35	8.48	34.04	300	360	Average
5442	57.22	48.43	74	-16.78	34.35	8.48	34.04	300	360	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5116	42.22	34.02	54	-11.78	34.09	8.1	33.99	110	0	Average
5116	56.31	48.11	74	-17.69	34.09	8.1	33.99	110	0	Peak
5260	104.77	96.31			34.21	8.26	34.01	110	0	Average
5260	111.02	102.56			34.21	8.26	34.01	110	0	Peak
5420	42.81	34.04	54	-11.19	34.33	8.48	34.04	110	0	Average
5420	56.5	47.73	74	-17.5	34.33	8.48	34.04	110	0	Peak

Remarks:

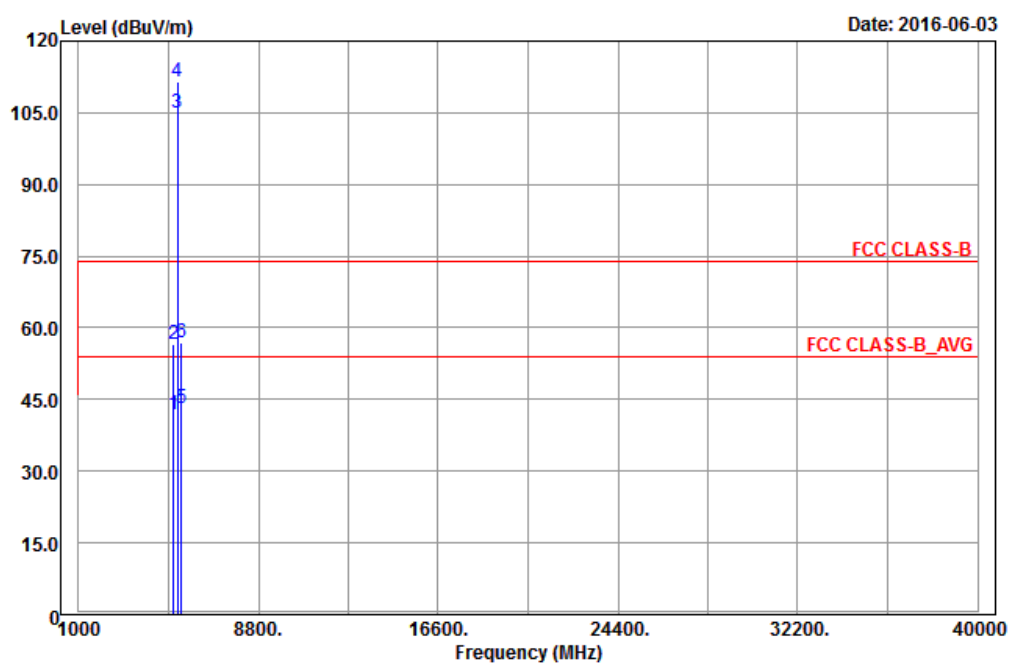
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5260 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 60	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



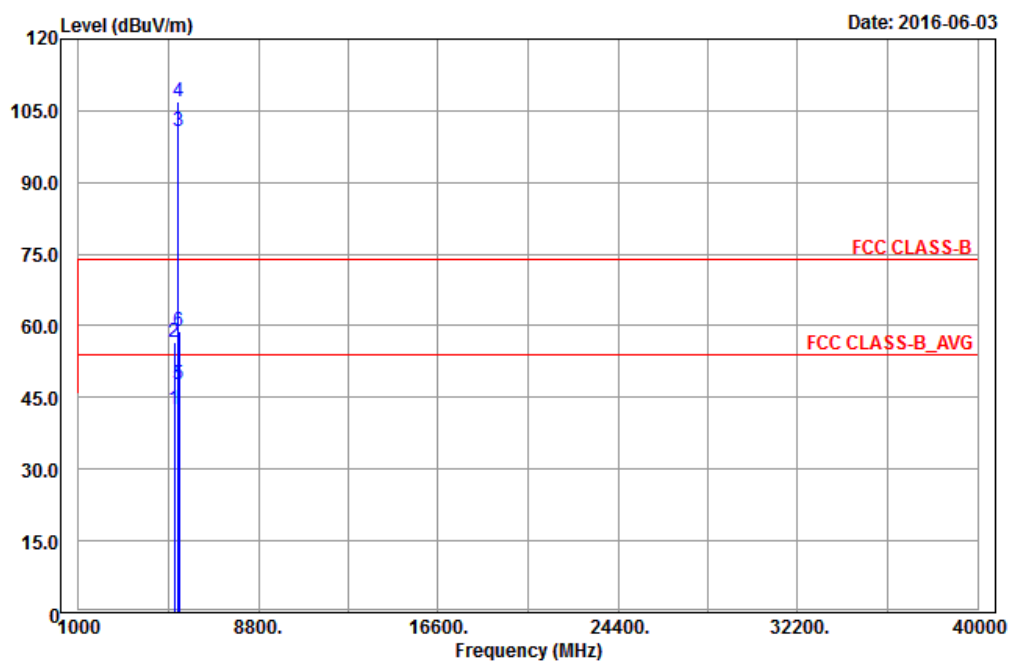
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5114	42.05	33.85	54	-11.95	34.09	8.1	33.99	300	360	Average
5114	56.2	48	74	-17.8	34.09	8.1	33.99	300	360	Peak
5300	102.52	93.98			34.24	8.32	34.02	300	360	Average
5300	109.76	101.22			34.24	8.32	34.02	300	360	Peak
5388	42.68	34	54	-11.32	34.31	8.41	34.04	300	360	Average
5388	56.63	47.95	74	-17.37	34.31	8.41	34.04	300	360	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5128	41.95	33.73	54	-12.05	34.11	8.1	33.99	101	176	Average
5128	56.56	48.34	74	-17.44	34.11	8.1	33.99	101	176	Peak
5300	104.81	96.27			34.24	8.32	34.02	101	176	Average
5300	111.43	102.89			34.24	8.32	34.02	101	176	Peak
5448	43.02	34.19	54	-10.98	34.36	8.51	34.04	101	176	Average
5448	56.85	48.02	74	-17.15	34.36	8.51	34.04	101	176	Peak

Remarks:

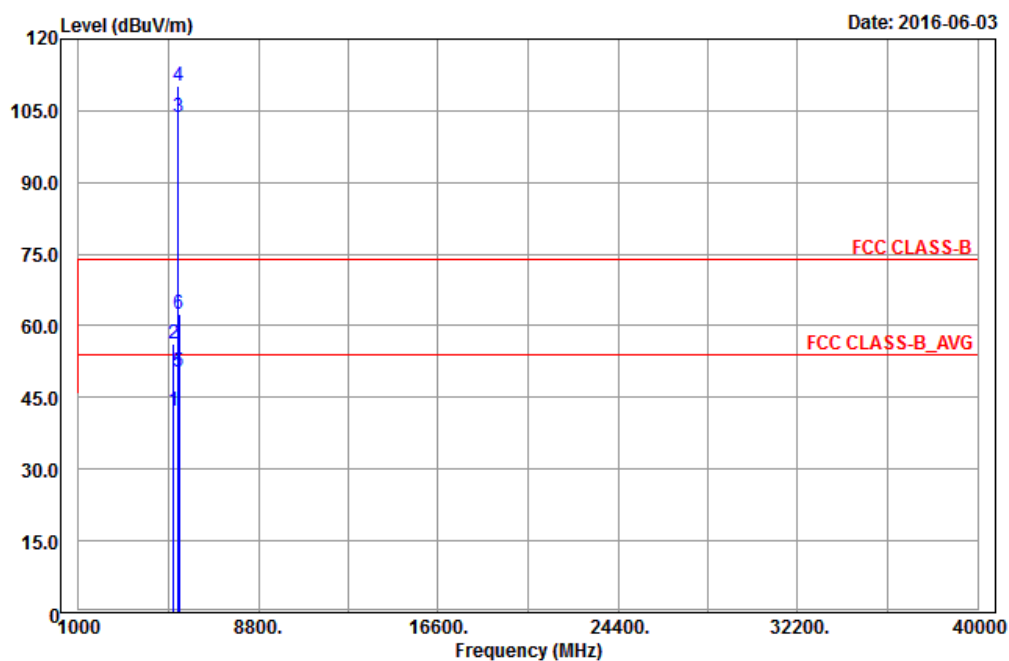
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5300 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 64	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



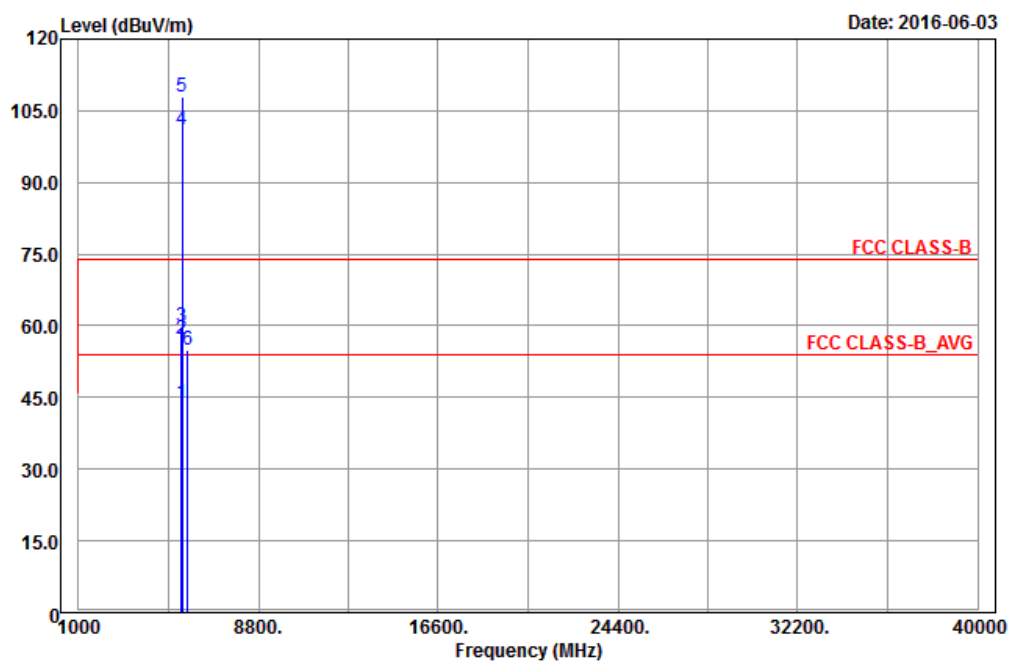
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5144	42.36	34.11	54	-11.64	34.12	8.13	34	293	0	Average
5144	56.59	48.34	74	-17.41	34.12	8.13	34	293	0	Peak
5320	100.74	92.16			34.25	8.35	34.02	293	0	Average
5320	107	98.42			34.25	8.35	34.02	293	0	Peak
5350	47.66	39.03	54	-6.34	34.28	8.38	34.03	250	356	Average
5350	58.82	50.19	74	-15.18	34.28	8.38	34.03	250	356	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5124	42.08	33.86	54	-11.92	34.11	8.1	33.99	100	13	Average
5124	56.39	48.17	74	-17.61	34.11	8.1	33.99	100	13	Peak
5320	103.72	95.14			34.25	8.35	34.02	100	13	Average
5320	110.22	101.64			34.25	8.35	34.02	100	13	Peak
5350	50.31	41.68	54	-3.69	34.28	8.38	34.03	100	9	Average
5350	62.52	53.89	74	-11.48	34.28	8.38	34.03	100	9	Peak

Remarks:

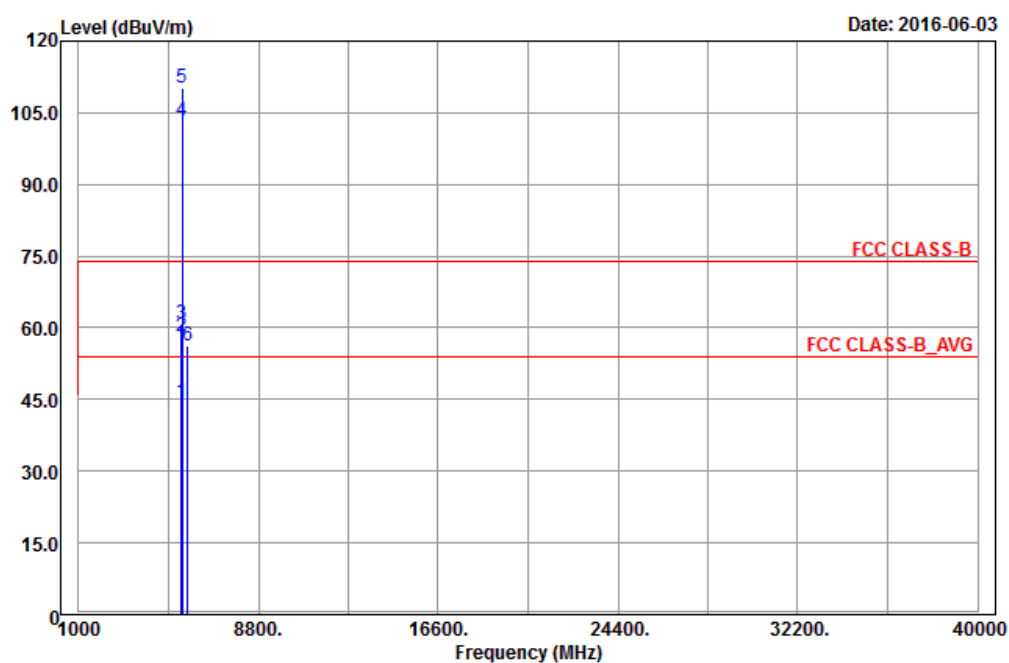
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5320 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 100	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



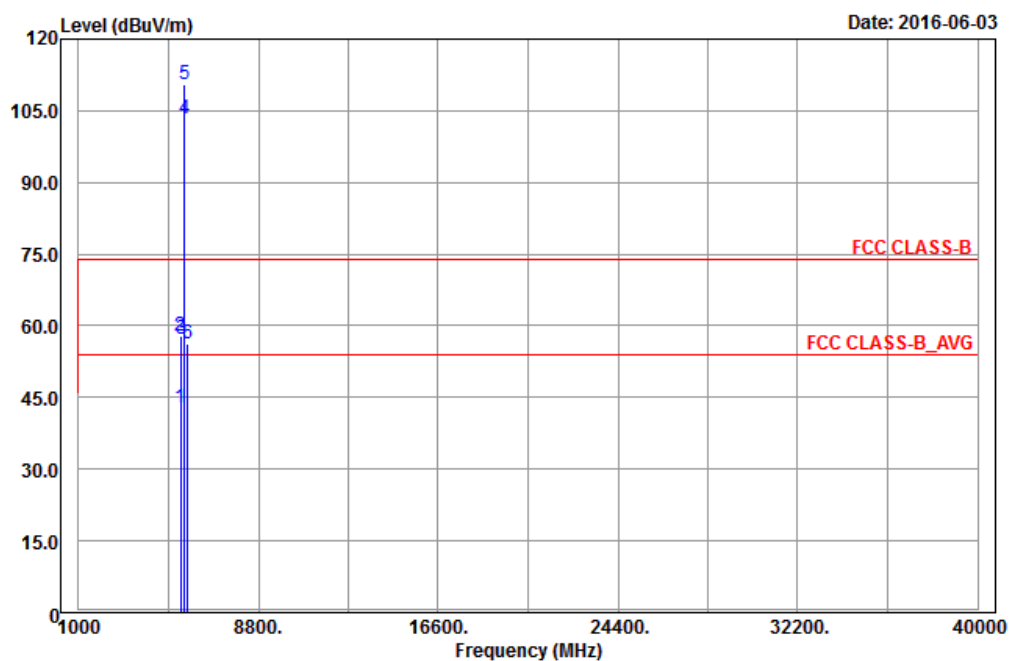
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5452	43.86	35.04	54	-10.14	34.36	8.51	34.05	276	2	Average
5452	57.21	48.39	74	-16.79	34.36	8.51	34.05	276	2	Peak
5470	59.69	50.86	68.2	-8.51	34.37	8.51	34.05	276	2	Peak
5500	100.94	92.02			34.4	8.57	34.05	276	2	Average
5500	107.76	98.84			34.4	8.57	34.05	276	2	Peak
5725	54.92	45.76	68.2	-13.28	34.62	8.65	34.11	276	2	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5454	44.61	35.79	54	-9.39	34.36	8.51	34.05	103	7	Average
5454	58.08	49.26	74	-15.92	34.36	8.51	34.05	103	7	Peak
5470	60.94	52.11	68.2	-7.26	34.37	8.51	34.05	103	7	Peak
5500	103.39	94.47			34.4	8.57	34.05	103	7	Average
5500	110.06	101.14			34.4	8.57	34.05	103	7	Peak
5725	56.25	47.09	68.2	-11.95	34.62	8.65	34.11	103	7	Peak

Remarks:

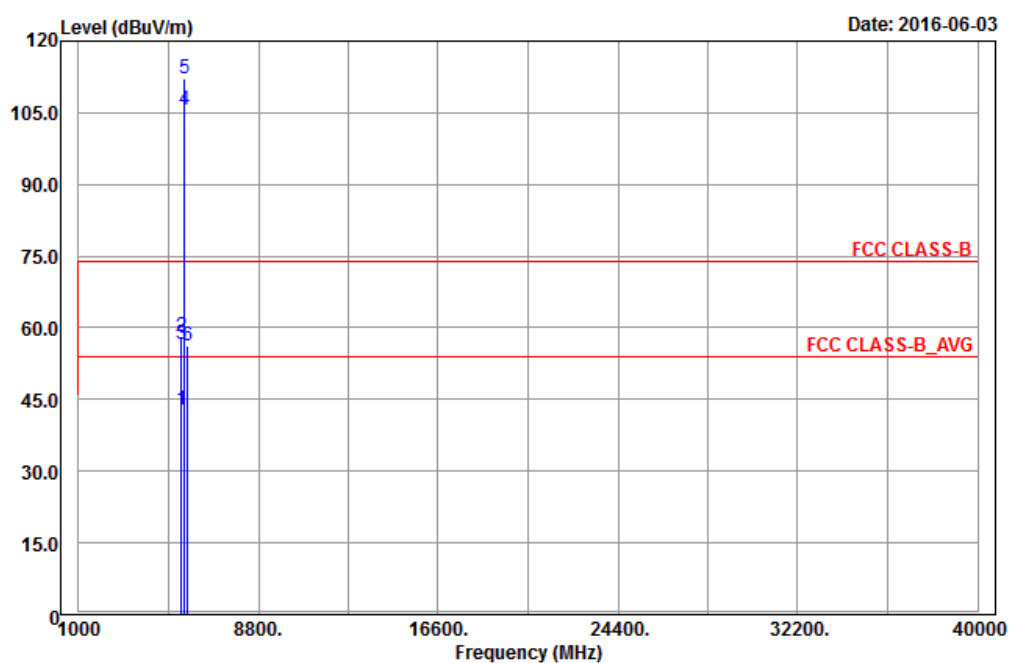
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5500 MHz: Fundamental Frequency
3. 5470 MHz & 5725 MHz: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 116	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



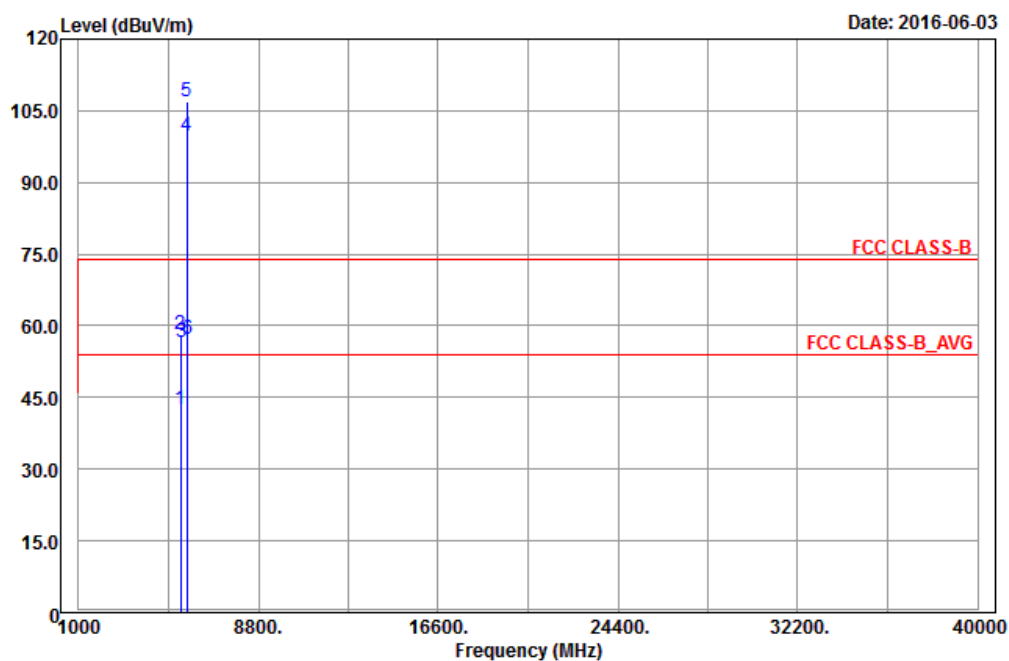
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5424	42.82	34.05	54	-11.18	34.33	8.48	34.04	285	3	Average
5424	57.97	49.2	74	-16.03	34.33	8.48	34.04	285	3	Peak
5470	57.32	48.49	68.2	-10.88	34.37	8.51	34.05	285	3	Peak
5580	103.16	94.17			34.47	8.6	34.08	285	3	Average
5580	110.38	101.39			34.47	8.6	34.08	285	3	Peak
5725	56.37	47.21	68.2	-11.83	34.62	8.65	34.11	285	3	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5446	42.78	33.95	54	-11.22	34.36	8.51	34.04	102	7	Average
5446	58.36	49.53	74	-15.64	34.36	8.51	34.04	102	7	Peak
5470	56.41	47.58	68.2	-11.79	34.37	8.51	34.05	102	7	Peak
5580	105.6	96.61			34.47	8.6	34.08	102	7	Average
5580	112.05	103.06			34.47	8.6	34.08	102	7	Peak
5725	56.11	46.95	68.2	-12.09	34.62	8.65	34.11	102	7	Peak

Remarks:

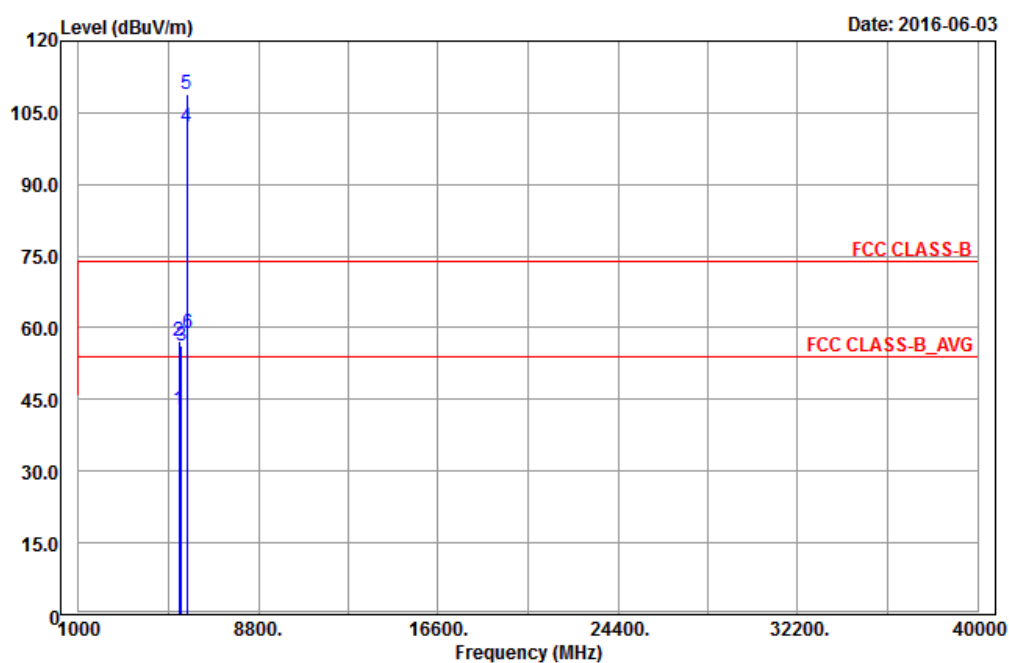
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5580 MHz: Fundamental Frequency
3. 5470 MHz & 5725 MHz: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 140	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



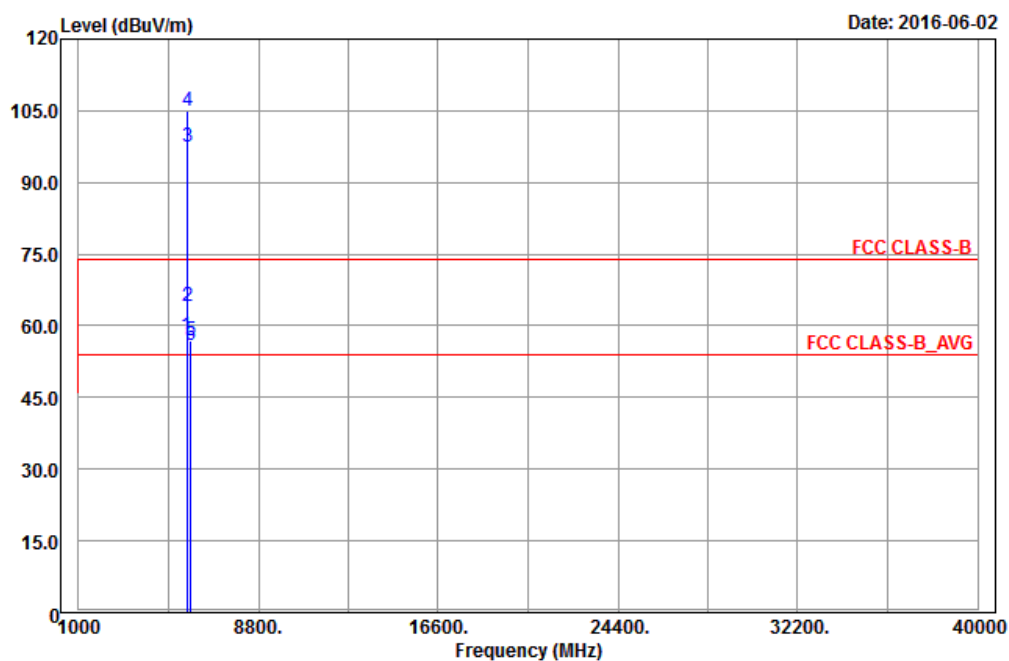
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5430	42.64	33.85	54	-11.36	34.35	8.48	34.04	300	2	Average
5430	58.13	49.34	74	-15.87	34.35	8.48	34.04	300	2	Peak
5470	56.68	47.85	68.2	-11.52	34.37	8.51	34.05	300	2	Peak
5700	99.77	90.64			34.59	8.64	34.1	300	2	Average
5700	107	97.87			34.59	8.64	34.1	300	2	Peak
5725	57.18	48.02	68.2	-11.02	34.62	8.65	34.11	300	2	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5362	42.8	34.16	54	-11.2	34.29	8.38	34.03	106	7	Average
5362	57.21	48.57	74	-16.79	34.29	8.38	34.03	106	7	Peak
5470	56.08	47.25	68.2	-12.12	34.37	8.51	34.05	106	7	Peak
5700	101.95	92.82			34.59	8.64	34.1	106	7	Average
5700	109.01	99.88			34.59	8.64	34.1	106	7	Peak
5725	58.71	49.55	68.2	-9.49	34.62	8.65	34.11	106	7	Peak

Remarks:

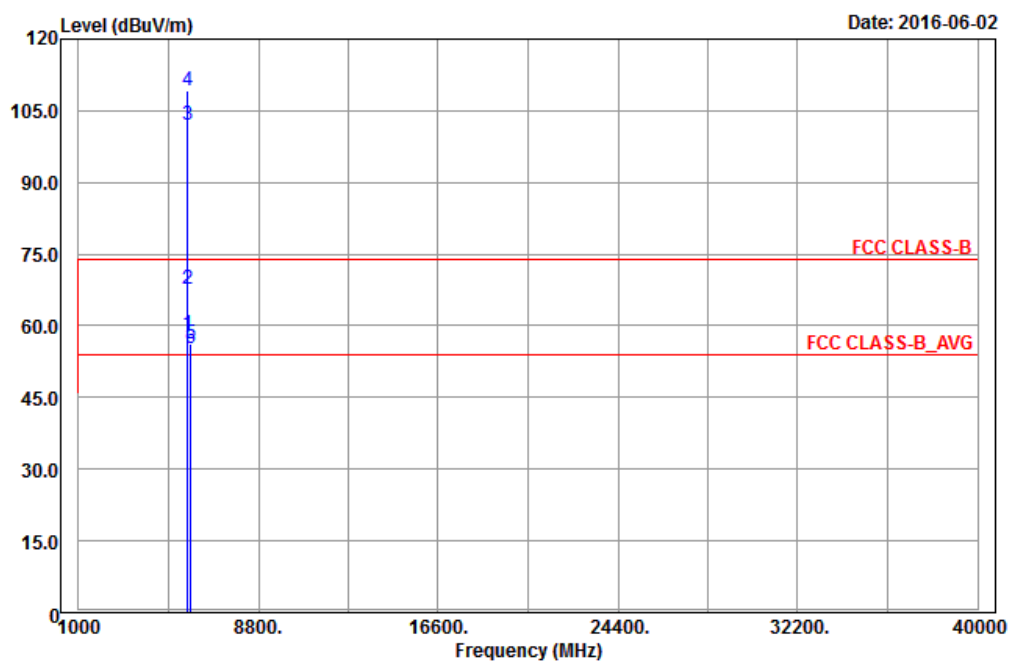
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5700 MHz: Fundamental Frequency
3. 5470 MHz & 5725 MHz: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 149	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



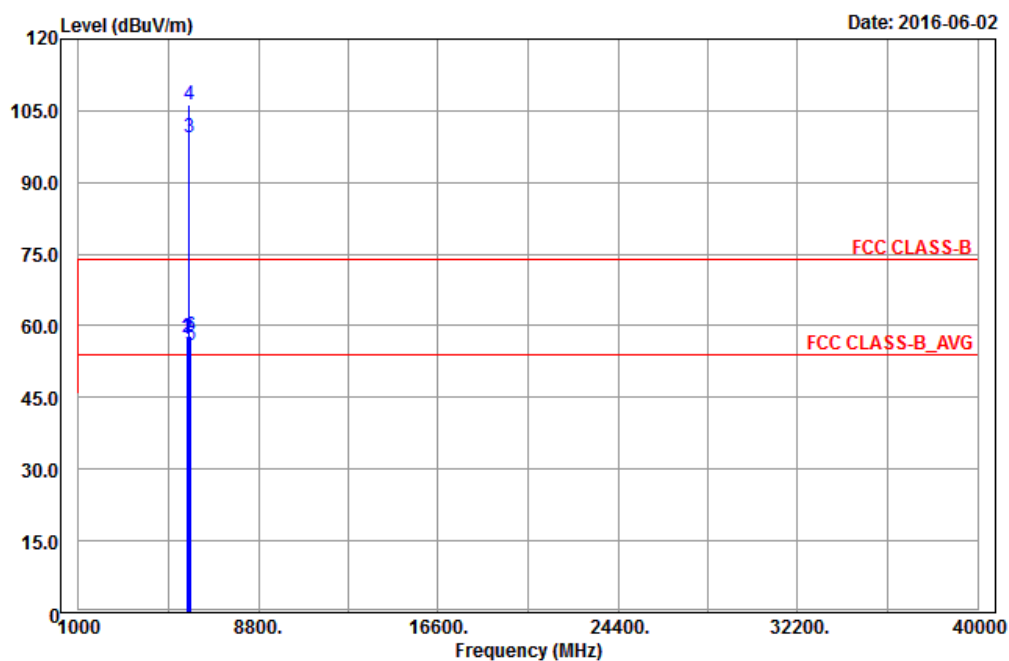
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5706	58.01	48.86	68.2	-10.19	34.61	8.65	34.11	129	91	Peak
*5724	64.07	54.91	78.2	-14.13	34.62	8.65	34.11	129	91	Peak
5745	97.3	88.11			34.64	8.66	34.11	129	91	Average
5745	104.81	95.62			34.64	8.66	34.11	129	91	Peak
*5858	56.82	47.5	78.2	-21.38	34.76	8.7	34.14	129	91	Peak
*5864	56.01	46.68	68.2	-12.19	34.76	8.71	34.14	129	91	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5714	58.29	49.14	68.2	-9.91	34.61	8.65	34.11	237	358	Peak
*5724	67.73	58.57	78.2	-10.47	34.62	8.65	34.11	237	358	Peak
5745	102.1	92.91			34.64	8.66	34.11	237	358	Average
5745	109.13	99.94			34.64	8.66	34.11	237	358	Peak
*5860	56.29	46.97	78.2	-21.91	34.76	8.7	34.14	237	358	Peak
*5870	55.21	45.88	68.2	-12.99	34.76	8.71	34.14	237	358	Peak

Remarks:

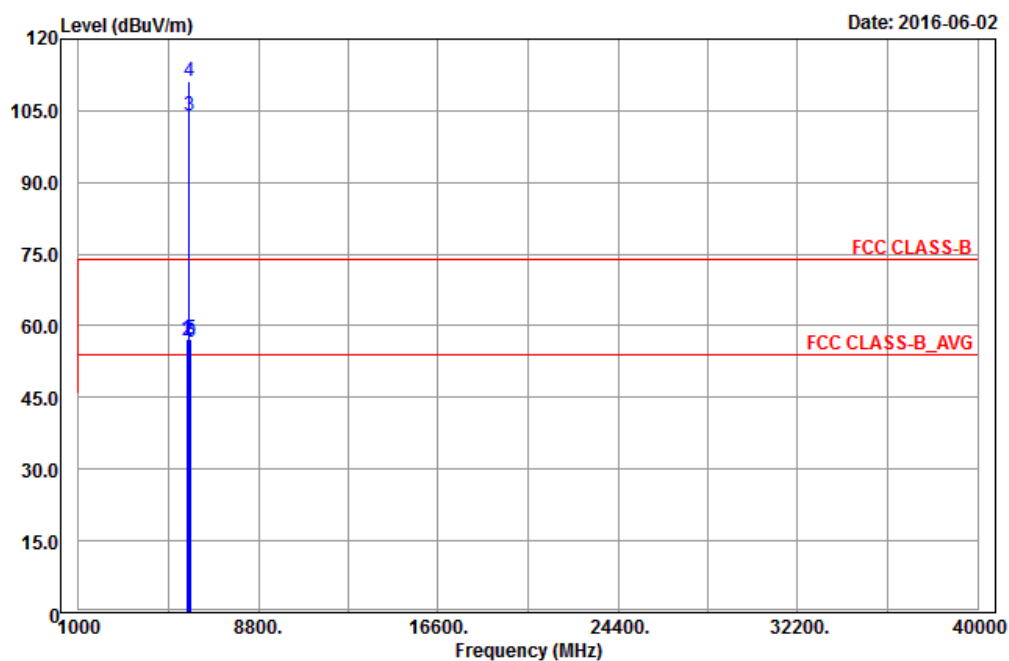
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5745 MHz: Fundamental Frequency
3. *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 157	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



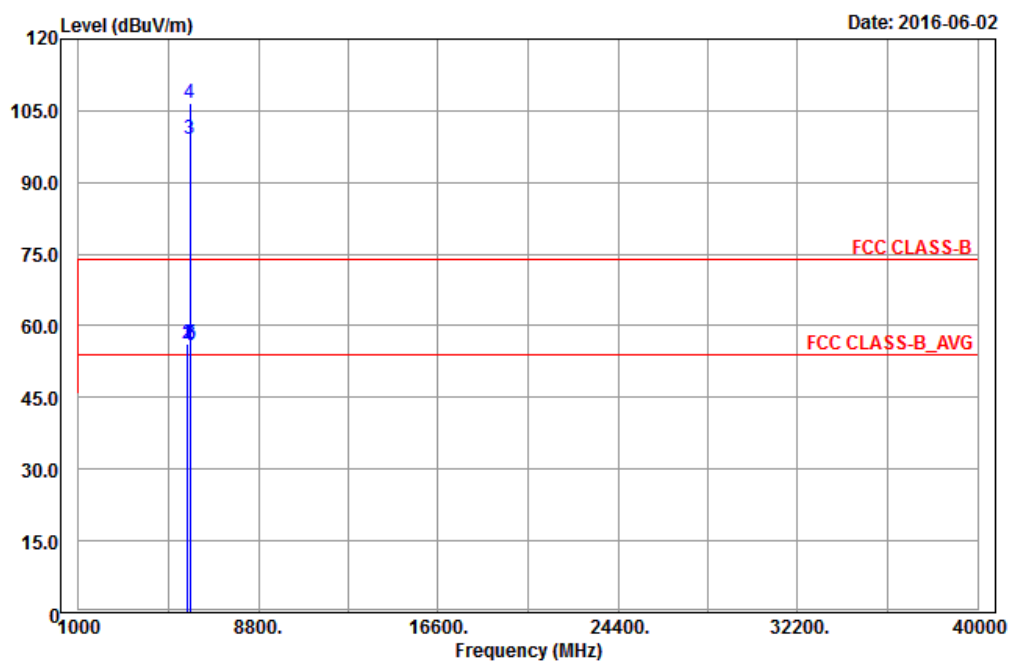
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5708	57.49	48.34	68.2	-10.71	34.61	8.65	34.11	117	91	Peak
*5722	57.4	48.24	78.2	-20.8	34.62	8.65	34.11	117	91	Peak
5785	99.46	90.23			34.68	8.68	34.13	117	91	Average
5785	106.18	96.95			34.68	8.68	34.13	117	91	Peak
*5860	56.02	46.7	78.2	-22.18	34.76	8.7	34.14	117	91	Peak
*5870	57.88	48.55	68.2	-10.32	34.76	8.71	34.14	117	91	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5706	57.34	48.19	68.2	-10.86	34.61	8.65	34.11	245	358	Peak
*5722	56.83	47.67	78.2	-21.37	34.62	8.65	34.11	245	358	Peak
5785	104.06	94.83			34.68	8.68	34.13	245	358	Average
5785	111.12	101.89			34.68	8.68	34.13	245	358	Peak
*5852	57.16	47.86	78.2	-21.04	34.74	8.7	34.14	245	358	Peak
*5862	56.53	47.2	68.2	-11.67	34.76	8.71	34.14	245	358	Peak

Remarks:

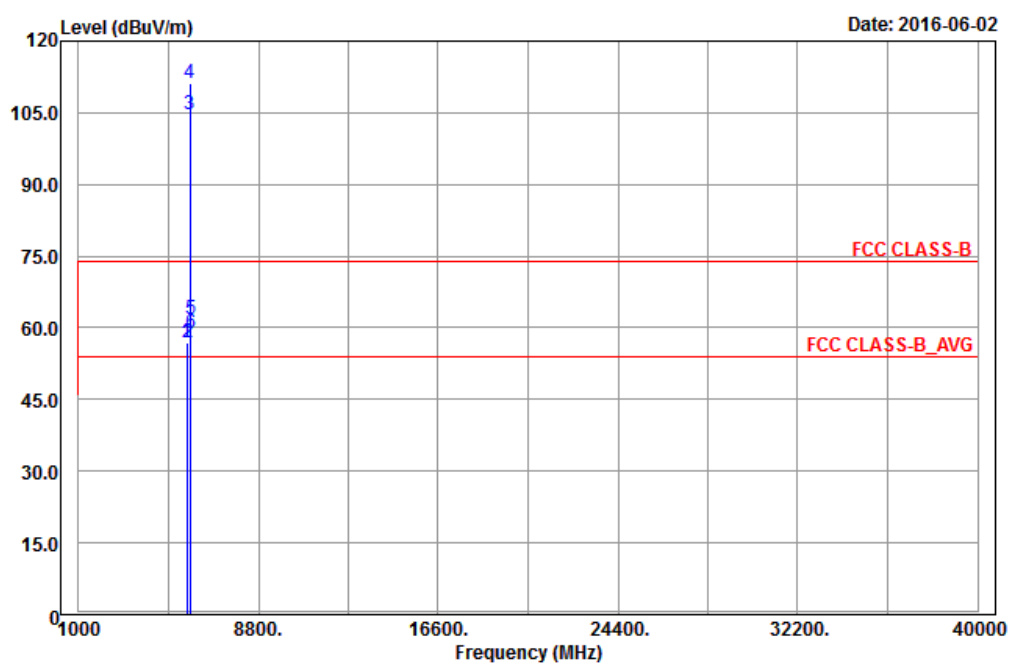
- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5785 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 165	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5714	56.23	47.08	68.2	-11.97	34.61	8.65	34.11	117	91	Peak
*5720	56.13	46.97	78.2	-22.07	34.62	8.65	34.11	117	91	Peak
5825	99.02	89.73			34.73	8.69	34.13	117	91	Average
5825	106.54	97.25			34.73	8.69	34.13	117	91	Peak
*5860	56.39	47.07	78.2	-21.81	34.76	8.7	34.14	117	91	Peak
*5868	55.95	46.62	68.2	-12.25	34.76	8.71	34.14	117	91	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5708	56.87	47.72	68.2	-11.33	34.61	8.65	34.11	245	358	Peak
*5724	56.73	47.57	78.2	-21.47	34.62	8.65	34.11	245	358	Peak
5825	104.62	95.33			34.73	8.69	34.13	245	358	Average
5825	111.15	101.86			34.73	8.69	34.13	245	358	Peak
*5852	61.72	52.42	78.2	-16.48	34.74	8.7	34.14	244	358	Peak
*5862	58.84	49.51	68.2	-9.36	34.76	8.71	34.14	244	358	Peak

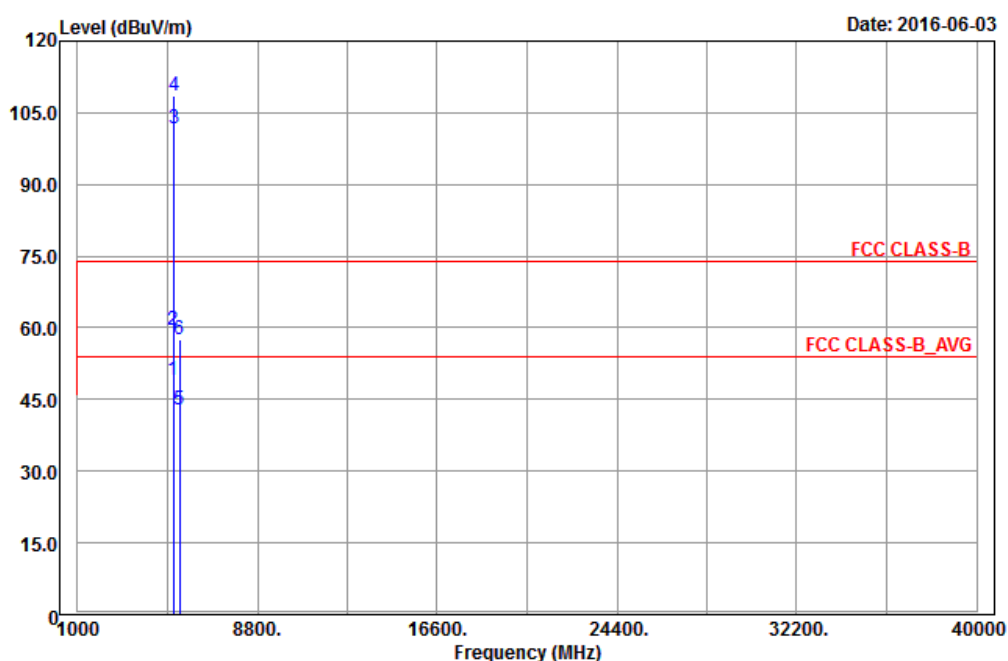
Remarks:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5825 MHz: Fundamental Frequency
3. *: Out of Restricted Band

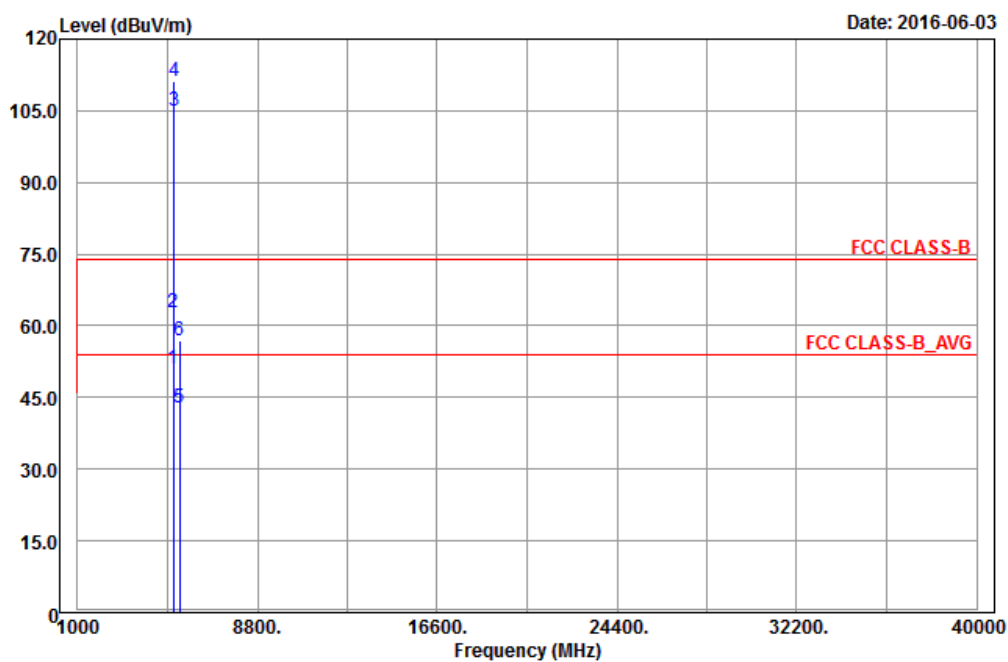
802.11n (HT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 36	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



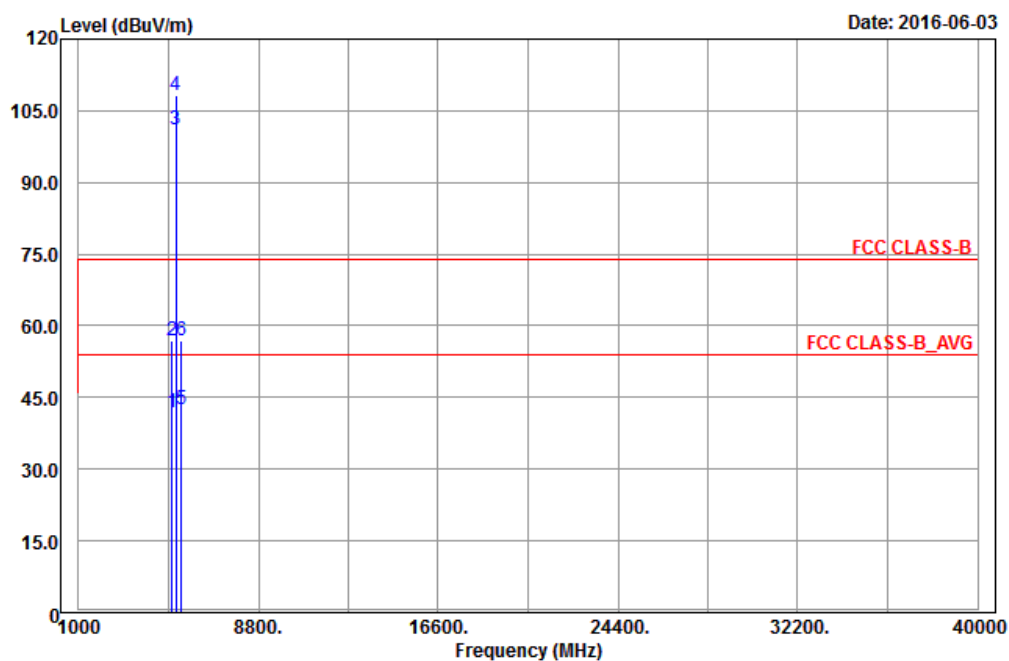
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5148	49	40.75	54	-5	34.12	8.13	34	240	358	Average
5148	59.37	51.12	74	-14.63	34.12	8.13	34	240	358	Peak
5180	101.71	93.4			34.15	8.16	34	270	358	Average
5180	108.6	100.29			34.15	8.16	34	270	358	Peak
5416	42.77	34.04	54	-11.23	34.33	8.44	34.04	270	358	Average
5416	57.66	48.93	74	-16.34	34.33	8.44	34.04	270	358	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5150	51	42.75	54	-3	34.12	8.13	34	103	19	Average
5150	62.92	54.67	74	-11.08	34.12	8.13	34	103	19	Peak
5180	104.91	96.6			34.15	8.16	34	103	18	Average
5180	111.24	102.93			34.15	8.16	34	103	18	Peak
5438	42.74	33.95	54	-11.26	34.35	8.48	34.04	103	18	Average
5438	56.83	48.04	74	-17.17	34.35	8.48	34.04	103	18	Peak

Remarks:

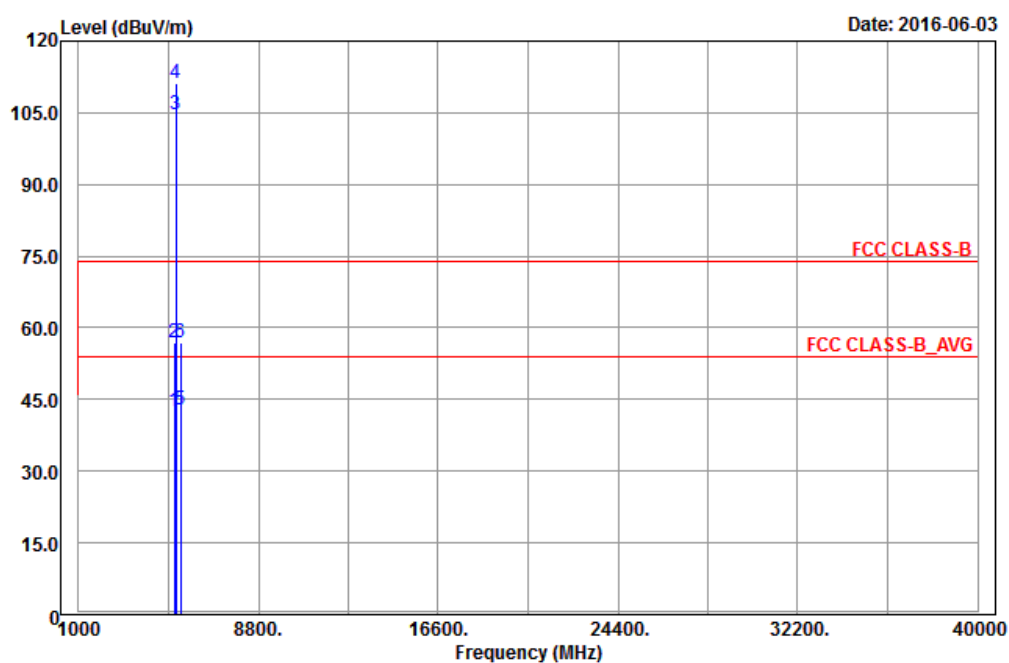
- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5180 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 44	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



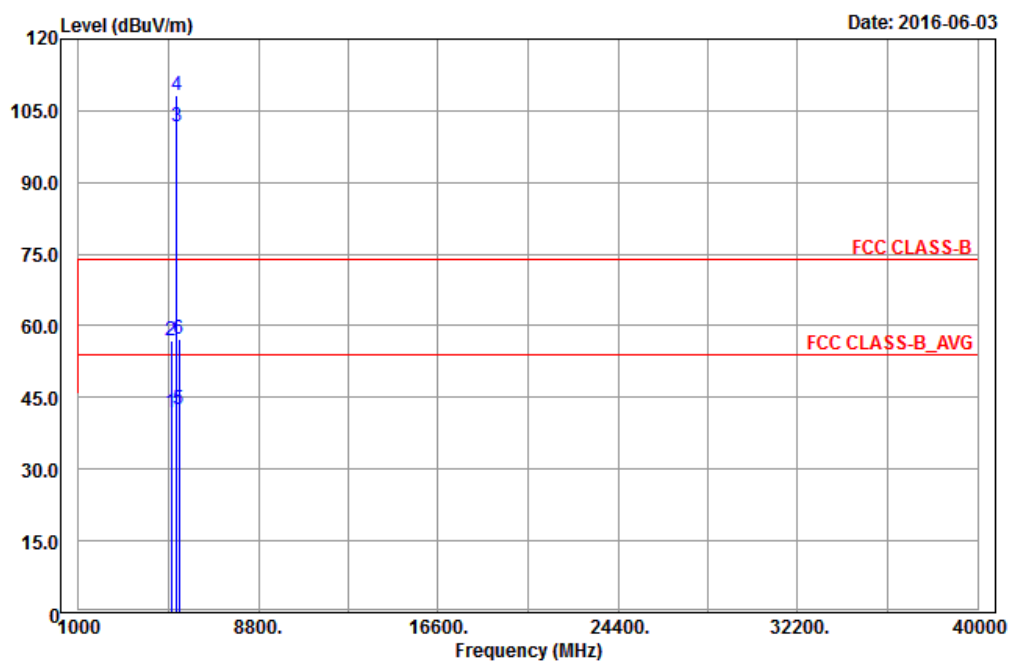
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5064	41.79	33.69	54	-12.21	34.05	8.03	33.98	270	358	Average
5064	56.76	48.66	74	-17.24	34.05	8.03	33.98	270	358	Peak
5220	101.09	92.7			34.17	8.22	34	270	358	Average
5220	108.35	99.96			34.17	8.22	34	270	358	Peak
5450	42.57	33.75	54	-11.43	34.36	8.51	34.05	270	358	Average
5450	56.94	48.12	74	-17.06	34.36	8.51	34.05	270	358	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5150	42.39	34.14	54	-11.61	34.12	8.13	34	103	18	Average
5150	56.82	48.57	74	-17.18	34.12	8.13	34	103	18	Peak
5220	104.54	96.15			34.17	8.22	34	103	18	Average
5220	111.23	102.84			34.17	8.22	34	103	18	Peak
5430	42.87	34.08	54	-11.13	34.35	8.48	34.04	103	18	Average
5430	57.02	48.23	74	-16.98	34.35	8.48	34.04	103	18	Peak

Remarks:

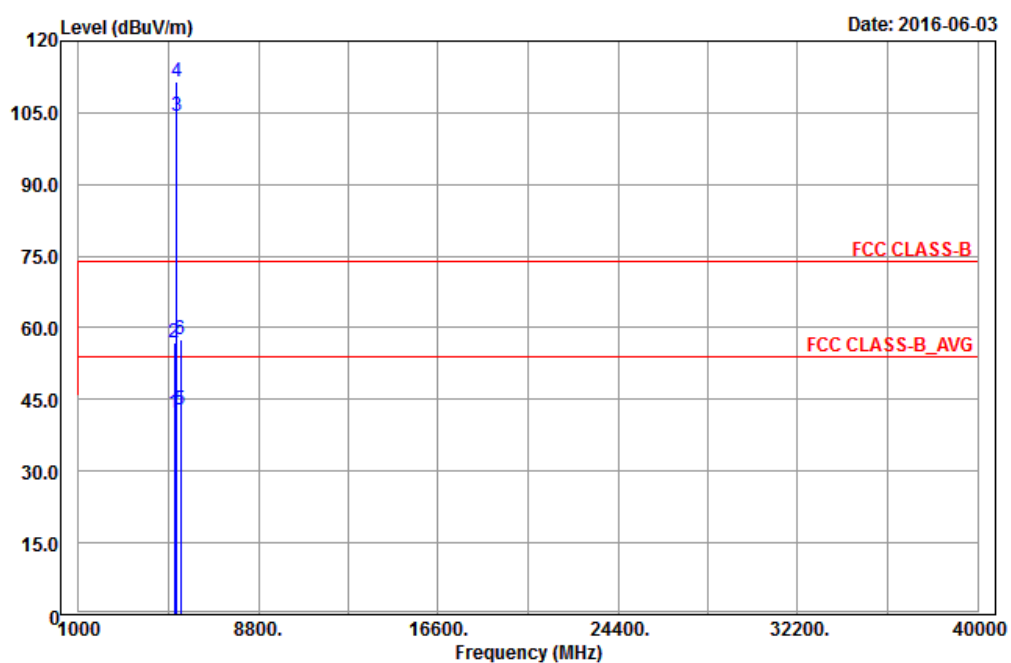
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5220 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 48	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



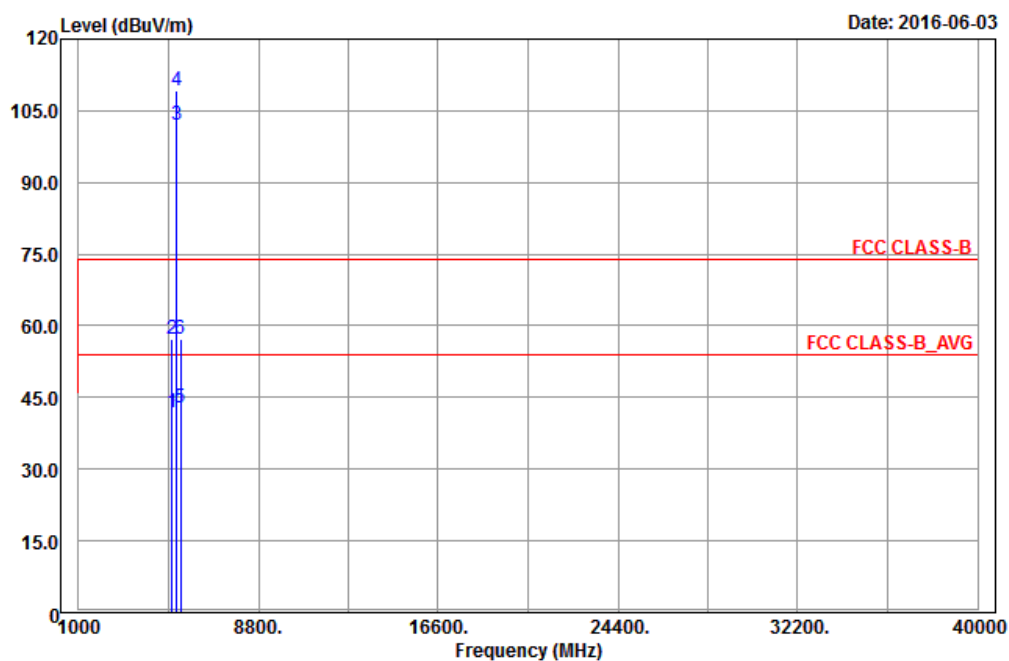
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5030	41.88	33.82	54	-12.12	34.03	8	33.97	240	358	Average
5030	56.85	48.79	74	-17.15	34.03	8	33.97	240	358	Peak
5240	101.59	93.15			34.19	8.26	34.01	240	358	Average
5240	108.17	99.73			34.19	8.26	34.01	240	358	Peak
5356	42.65	34.02	54	-11.35	34.28	8.38	34.03	240	358	Average
5356	57.24	48.61	74	-16.76	34.28	8.38	34.03	240	358	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5142	42.3	34.04	54	-11.7	34.12	8.13	33.99	103	18	Average
5142	56.98	48.72	74	-17.02	34.12	8.13	33.99	103	18	Peak
5240	104.19	95.75			34.19	8.26	34.01	103	18	Average
5240	111.42	102.98			34.19	8.26	34.01	103	18	Peak
5426	42.81	34.04	54	-11.19	34.33	8.48	34.04	103	18	Average
5426	57.5	48.73	74	-16.5	34.33	8.48	34.04	103	18	Peak

Remarks:

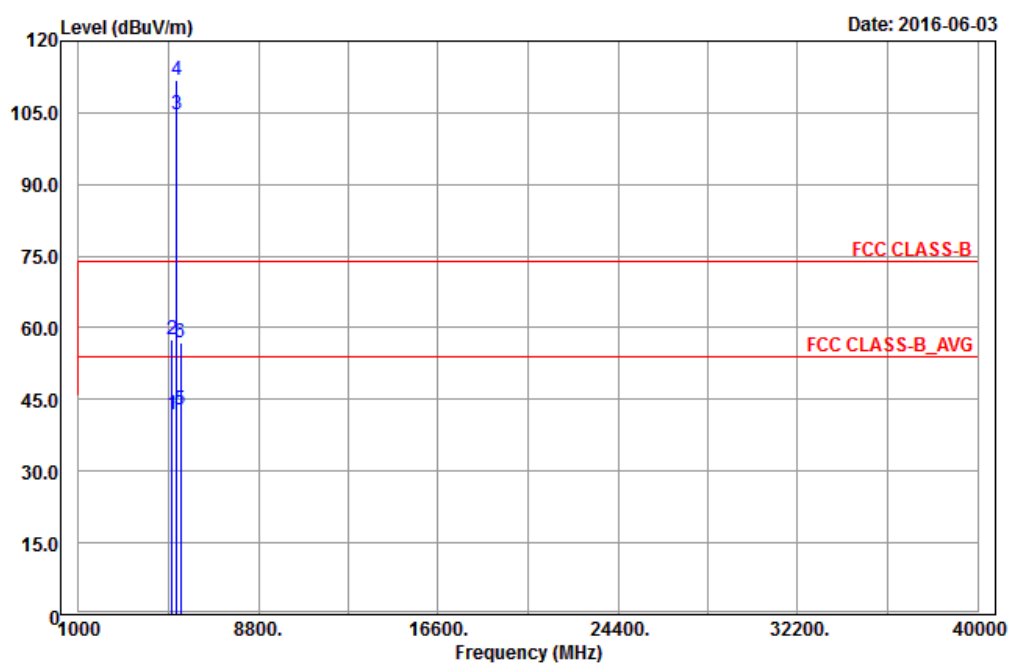
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5240 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 52	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



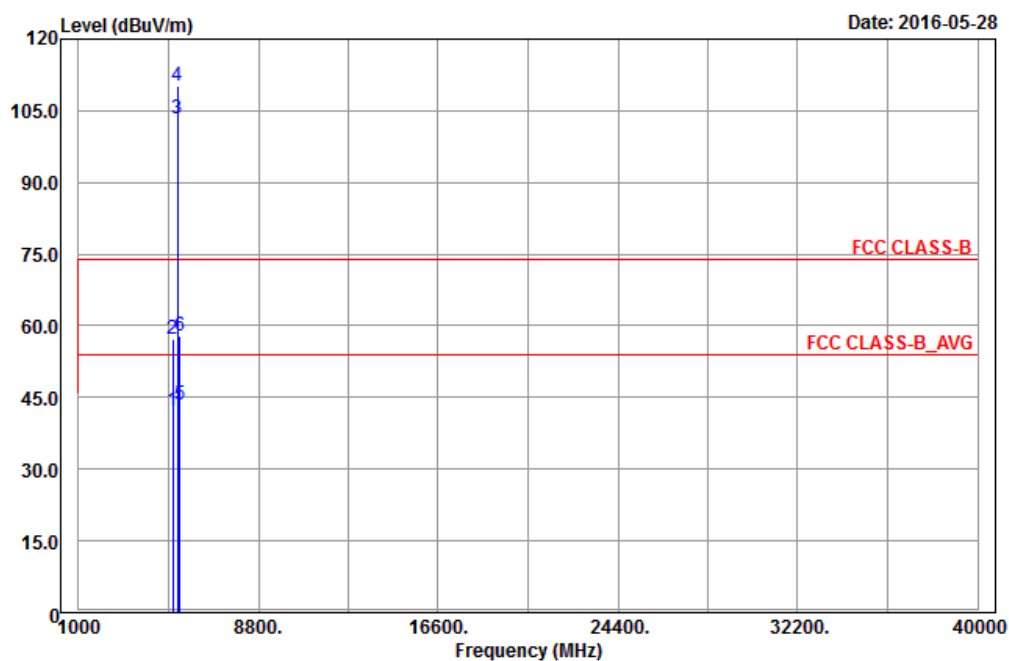
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5046	41.74	33.68	54	-12.26	34.04	8	33.98	300	360	Average
5046	57.16	49.1	74	-16.84	34.04	8	33.98	300	360	Peak
5260	102.1	93.64			34.21	8.26	34.01	300	360	Average
5260	109.1	100.64			34.21	8.26	34.01	300	360	Peak
5424	42.73	33.96	54	-11.27	34.33	8.48	34.04	300	360	Average
5424	57.29	48.52	74	-16.71	34.33	8.48	34.04	300	360	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5038	41.93	33.86	54	-12.07	34.04	8	33.97	110	360	Average
5038	57.5	49.43	74	-16.5	34.04	8	33.97	110	360	Peak
5260	104.58	96.12			34.21	8.26	34.01	110	360	Average
5260	111.93	103.47			34.21	8.26	34.01	110	360	Peak
5434	42.71	33.92	54	-11.29	34.35	8.48	34.04	110	360	Average
5434	56.85	48.06	74	-17.15	34.35	8.48	34.04	110	360	Peak

Remarks:

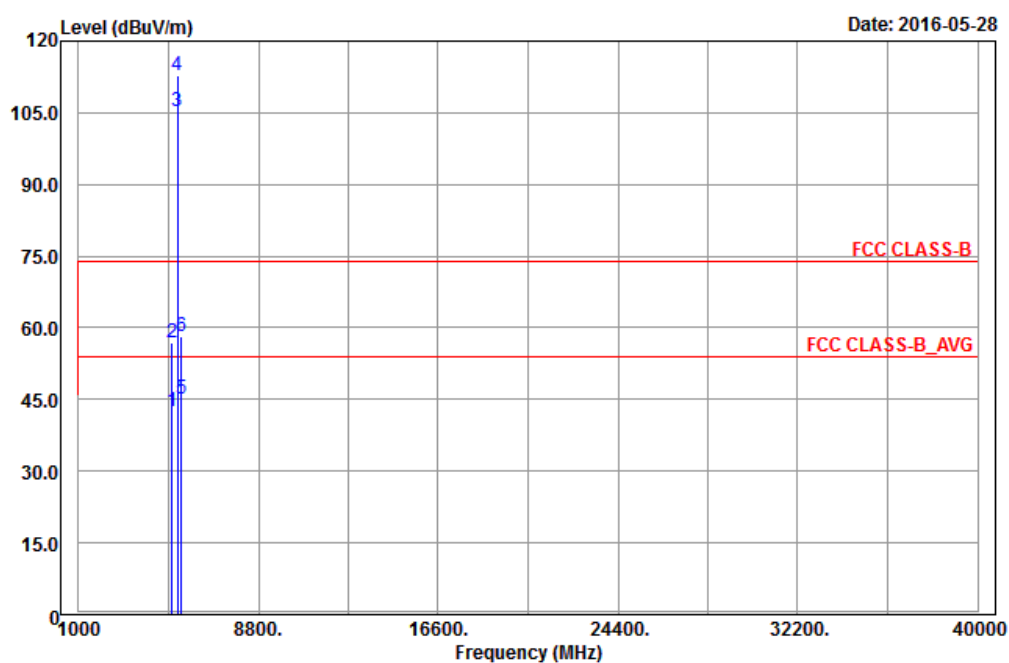
- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5260 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 60	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



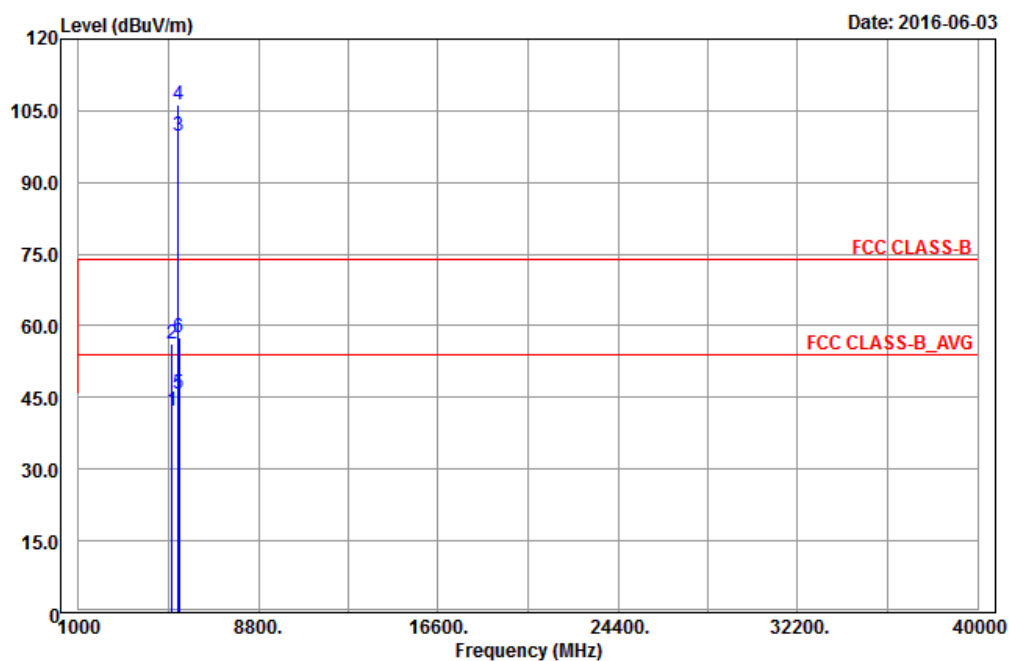
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5072	42.34	34.22	54	-11.66	34.07	8.03	33.98	271	357	Average
5072	57.22	49.1	74	-16.78	34.07	8.03	33.98	271	357	Peak
5300	103.44	94.9			34.24	8.32	34.02	271	357	Average
5300	110.09	101.55			34.24	8.32	34.02	271	357	Peak
5404	43.58	34.86	54	-10.42	34.32	8.44	34.04	271	357	Average
5404	57.77	49.05	74	-16.23	34.32	8.44	34.04	271	357	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5062	42.34	34.24	54	-11.66	34.05	8.03	33.98	109	10	Average
5062	56.85	48.75	74	-17.15	34.05	8.03	33.98	109	10	Peak
5300	105.32	96.78			34.24	8.32	34.02	109	10	Average
5300	112.85	104.31			34.24	8.32	34.02	109	10	Peak
5458	45.17	36.35	54	-8.83	34.36	8.51	34.05	109	10	Average
5458	58.19	49.37	74	-15.81	34.36	8.51	34.05	109	10	Peak

Remarks:

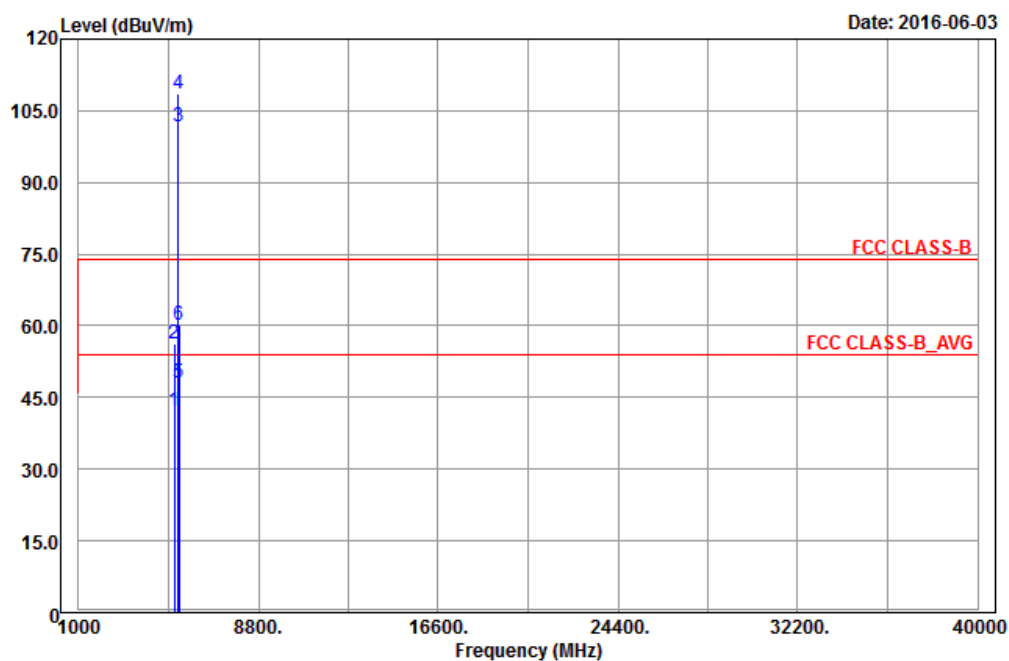
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5300 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 64	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



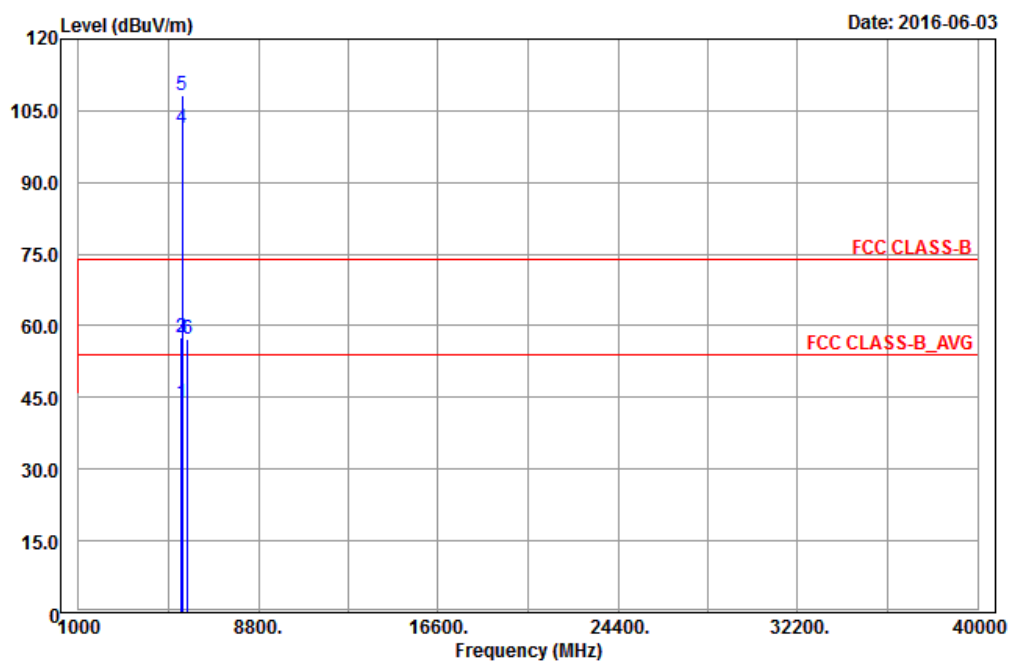
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5062	42.03	33.93	54	-11.97	34.05	8.03	33.98	293	0	Average
5062	56.12	48.02	74	-17.88	34.05	8.03	33.98	293	0	Peak
5320	99.66	91.08			34.25	8.35	34.02	293	0	Average
5320	106.33	97.75			34.25	8.35	34.02	293	0	Peak
5350	45.66	37.03	54	-8.34	34.28	8.38	34.03	293	0	Average
5350	57.41	48.78	74	-16.59	34.28	8.38	34.03	293	0	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5144	42.13	33.88	54	-11.87	34.12	8.13	34	100	13	Average
5144	56.09	47.84	74	-17.91	34.12	8.13	34	100	13	Peak
5320	101.66	93.08			34.25	8.35	34.02	100	13	Average
5320	108.57	99.99			34.25	8.35	34.02	100	13	Peak
5350	48.06	39.43	54	-5.94	34.28	8.38	34.03	100	9	Average
5350	60.02	51.39	74	-13.98	34.28	8.38	34.03	100	9	Peak

Remarks:

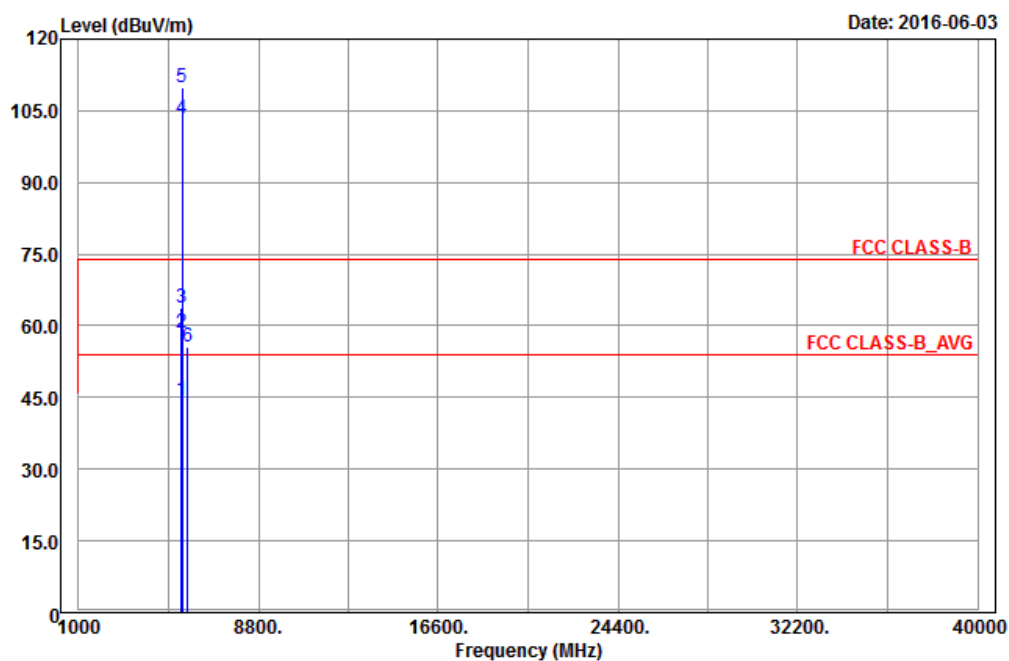
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5320 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 100	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



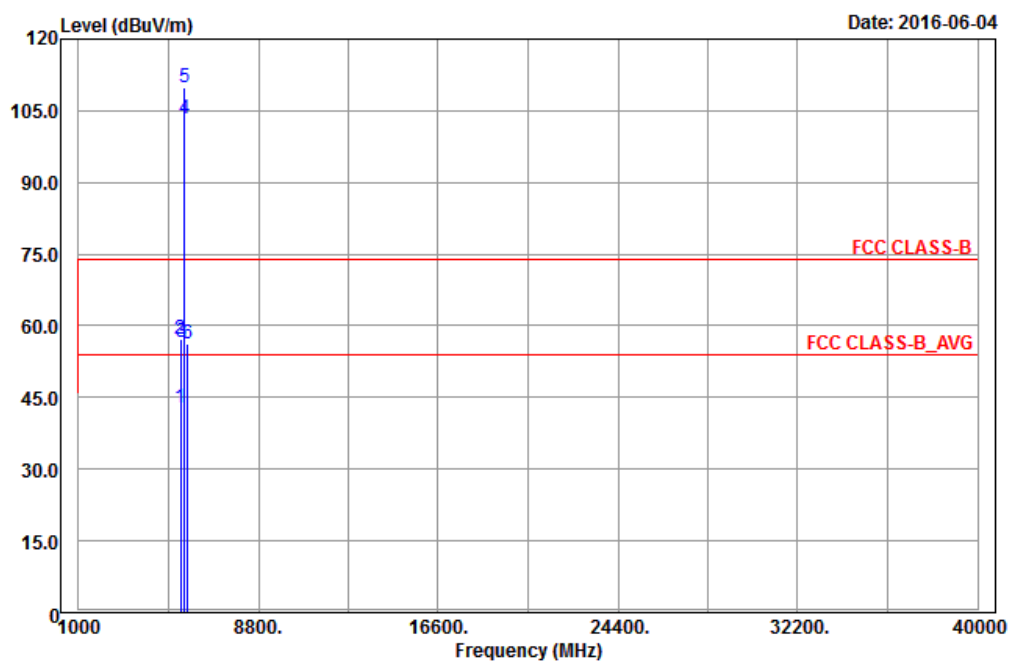
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5454	43.87	35.05	54	-10.13	34.36	8.51	34.05	276	2	Average
5454	57.56	48.74	74	-16.44	34.36	8.51	34.05	276	2	Peak
5470	57.58	48.75	68.2	-10.62	34.37	8.51	34.05	276	2	Peak
5500	101.39	92.47			34.4	8.57	34.05	276	2	Average
5500	108.18	99.26			34.4	8.57	34.05	276	2	Peak
5725	57.29	48.13	68.2	-10.91	34.62	8.65	34.11	276	2	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5460	44.4	35.58	54	-9.6	34.36	8.51	34.05	103	7	Average
5460	58.41	49.59	74	-15.59	34.36	8.51	34.05	103	7	Peak
5470	63.69	54.86	68.2	-4.51	34.37	8.51	34.05	103	13	Peak
5500	103.37	94.45			34.4	8.57	34.05	103	7	Average
5500	109.81	100.89			34.4	8.57	34.05	103	7	Peak
5725	55.43	46.27	68.2	-12.77	34.62	8.65	34.11	103	7	Peak

Remarks:

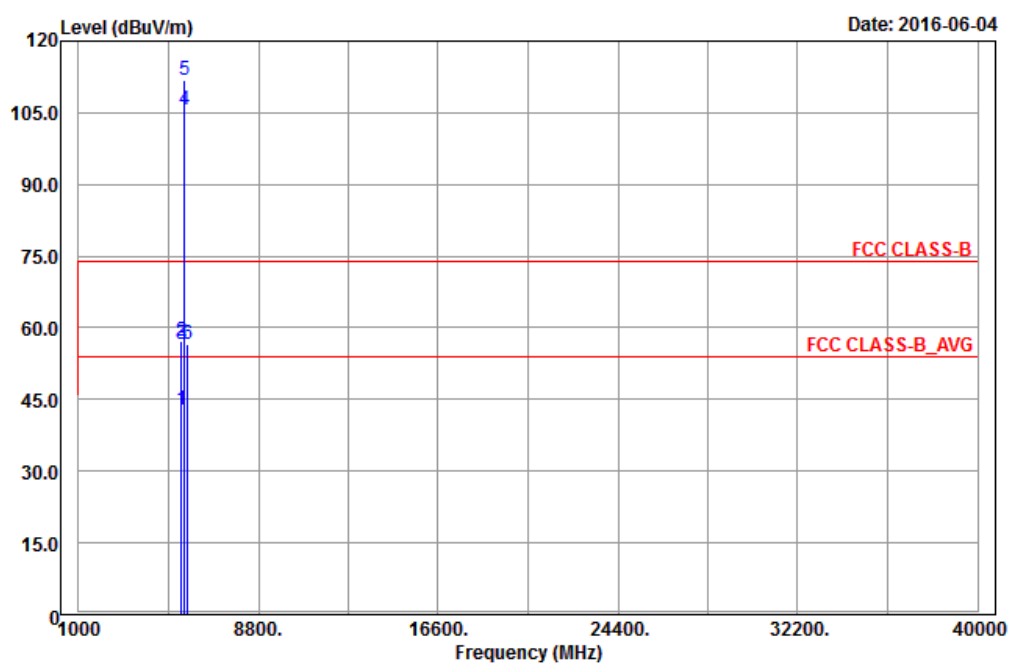
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5500 MHz: Fundamental Frequency
3. 5470 MHz & 5725 MHz: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 116	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



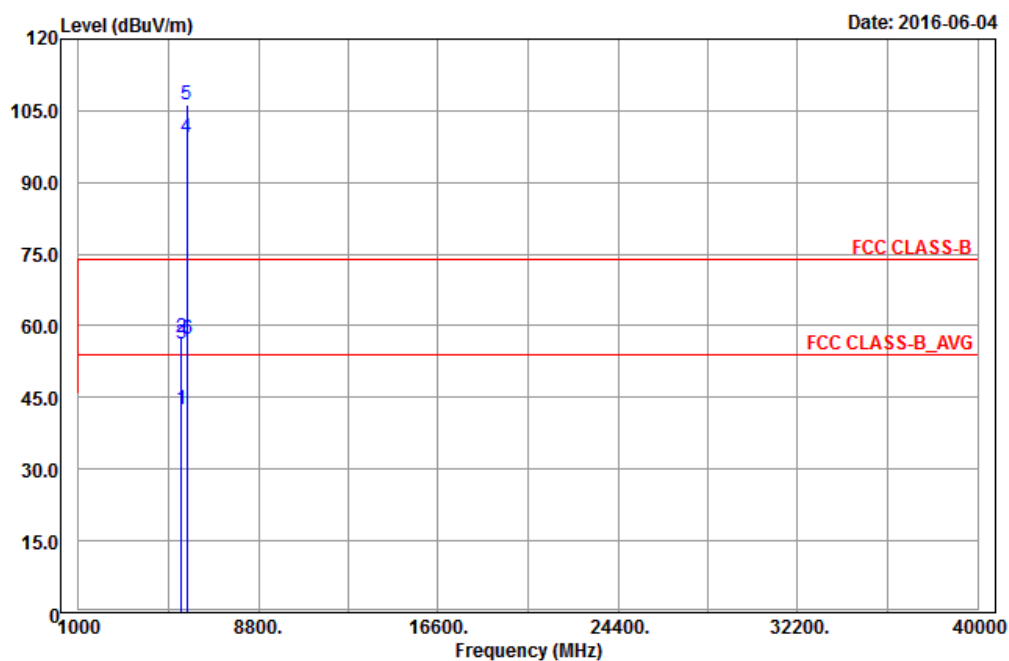
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5422	42.67	33.9	54	-11.33	34.33	8.48	34.04	285	3	Average
5422	57.27	48.5	74	-16.73	34.33	8.48	34.04	285	3	Peak
5470	56.53	47.7	68.2	-11.67	34.37	8.51	34.05	285	3	Peak
5580	103.35	94.36			34.47	8.6	34.08	285	3	Average
5580	109.92	100.93			34.47	8.6	34.08	285	3	Peak
5725	56.36	47.2	68.2	-11.84	34.62	8.65	34.11	285	3	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5452	42.83	34.01	54	-11.17	34.36	8.51	34.05	102	7	Average
5452	57.35	48.53	74	-16.65	34.36	8.51	34.05	102	7	Peak
5470	56.55	47.72	68.2	-11.65	34.37	8.51	34.05	102	7	Peak
5580	105.61	96.62			34.47	8.6	34.08	102	7	Average
5580	111.81	102.82			34.47	8.6	34.08	102	7	Peak
5725	56.48	47.32	68.2	-11.72	34.62	8.65	34.11	102	7	Peak

Remarks:

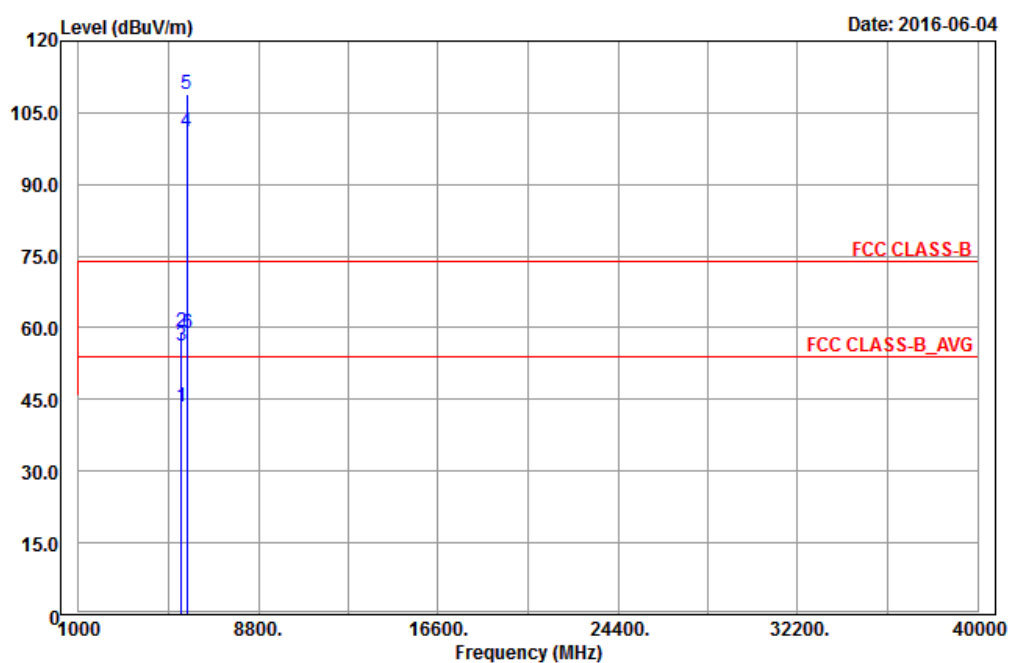
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5580 MHz: Fundamental Frequency
3. 5470 MHz & 5725 MHz: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 140	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



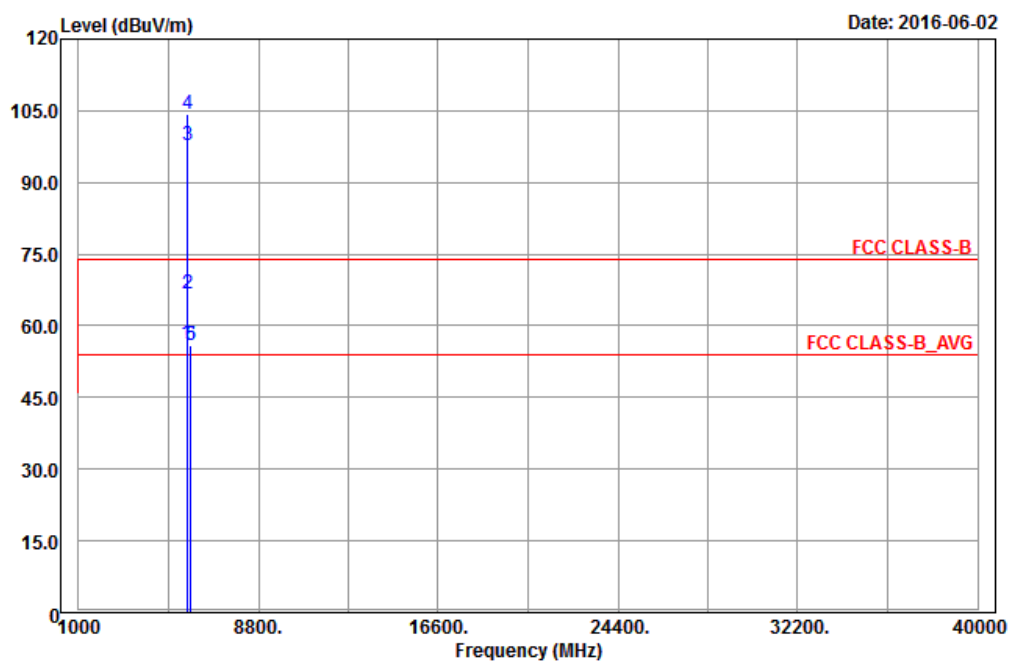
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5458	42.58	33.76	54	-11.42	34.36	8.51	34.05	300	2	Average
5458	57.54	48.72	74	-16.46	34.36	8.51	34.05	300	2	Peak
5470	56.23	47.4	68.2	-11.97	34.37	8.51	34.05	300	2	Peak
5700	99.33	90.2			34.59	8.64	34.1	300	2	Average
5700	106.37	97.24			34.59	8.64	34.1	300	2	Peak
5725	57.3	48.14	68.2	-10.9	34.62	8.65	34.11	300	2	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5446	43.58	34.75	54	-10.42	34.36	8.51	34.04	106	7	Average
5446	59.23	50.4	74	-14.77	34.36	8.51	34.04	106	7	Peak
5470	56.17	47.34	68.2	-12.03	34.37	8.51	34.05	106	7	Peak
5700	101	91.87			34.59	8.64	34.1	106	7	Average
5700	108.73	99.6			34.59	8.64	34.1	106	7	Peak
5725	58.92	49.76	68.2	-9.28	34.62	8.65	34.11	106	7	Peak

Remarks:

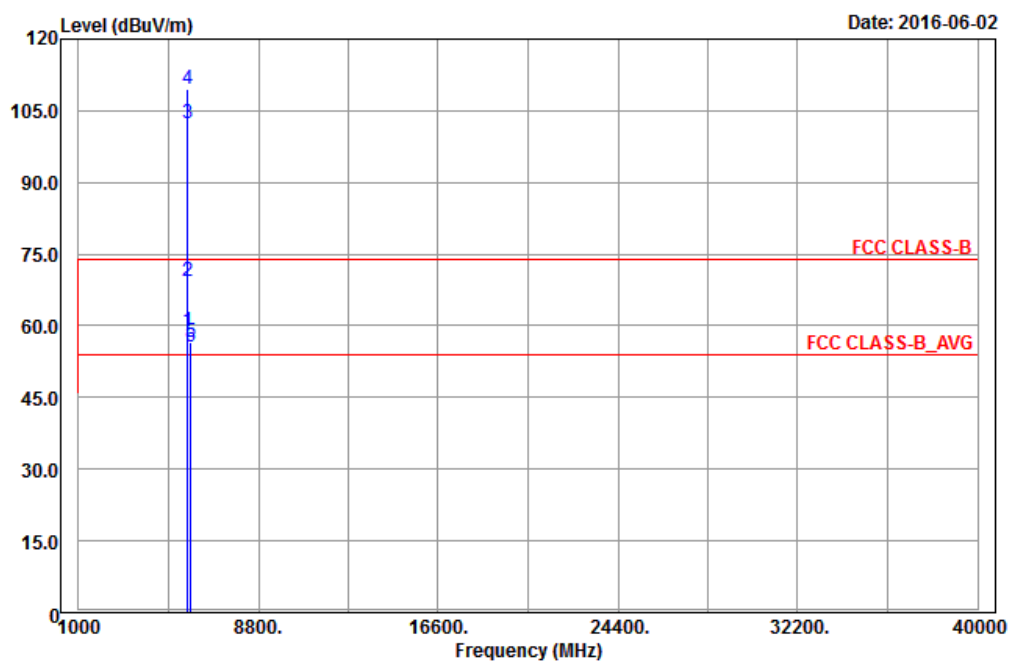
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5700 MHz: Fundamental Frequency
3. 5470 MHz & 5725 MHz: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 149	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



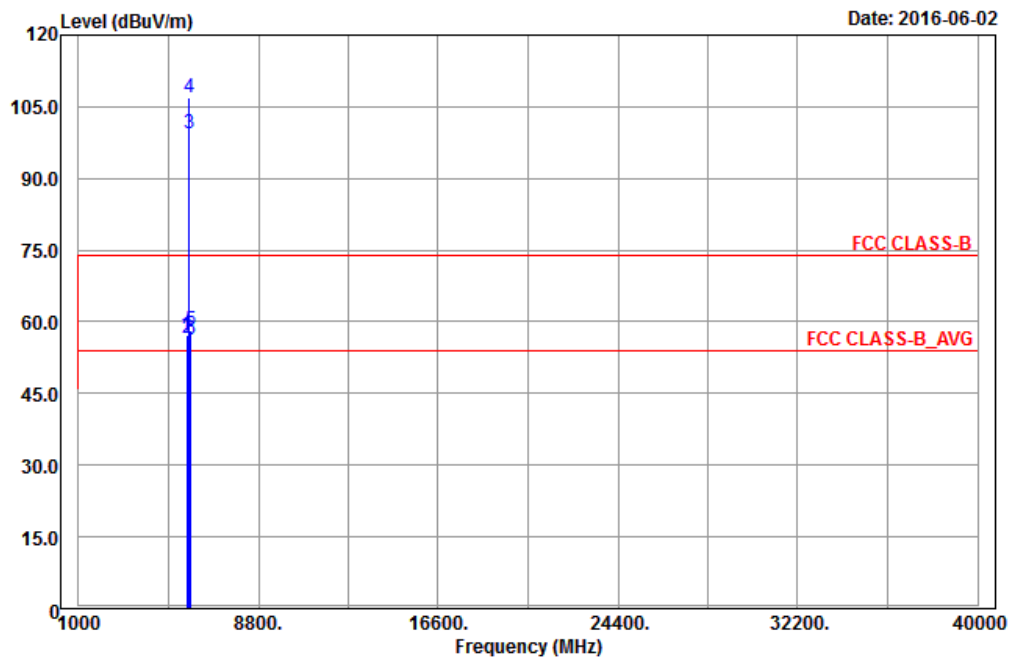
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5706	56.24	47.09	68.2	-11.96	34.61	8.65	34.11	129	91	Peak
*5724	66.86	57.7	78.2	-11.34	34.62	8.65	34.11	129	91	Peak
5745	97.65	88.46			34.64	8.66	34.11	129	91	Average
5745	104.39	95.2			34.64	8.66	34.11	129	91	Peak
*5858	56.05	46.73	78.2	-22.15	34.76	8.7	34.14	129	91	Peak
*5864	55.92	46.59	68.2	-12.28	34.76	8.71	34.14	129	91	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5714	58.88	49.73	68.2	-9.32	34.61	8.65	34.11	228	358	Peak
*5724	69.47	60.31	78.2	-8.73	34.62	8.65	34.11	228	358	Peak
5745	102.46	93.27			34.64	8.66	34.11	237	358	Average
5745	109.61	100.42			34.64	8.66	34.11	237	358	Peak
*5856	56.43	47.11	78.2	-21.77	34.76	8.7	34.14	237	358	Peak
*5864	55.69	46.36	68.2	-12.51	34.76	8.71	34.14	237	358	Peak

Remarks:

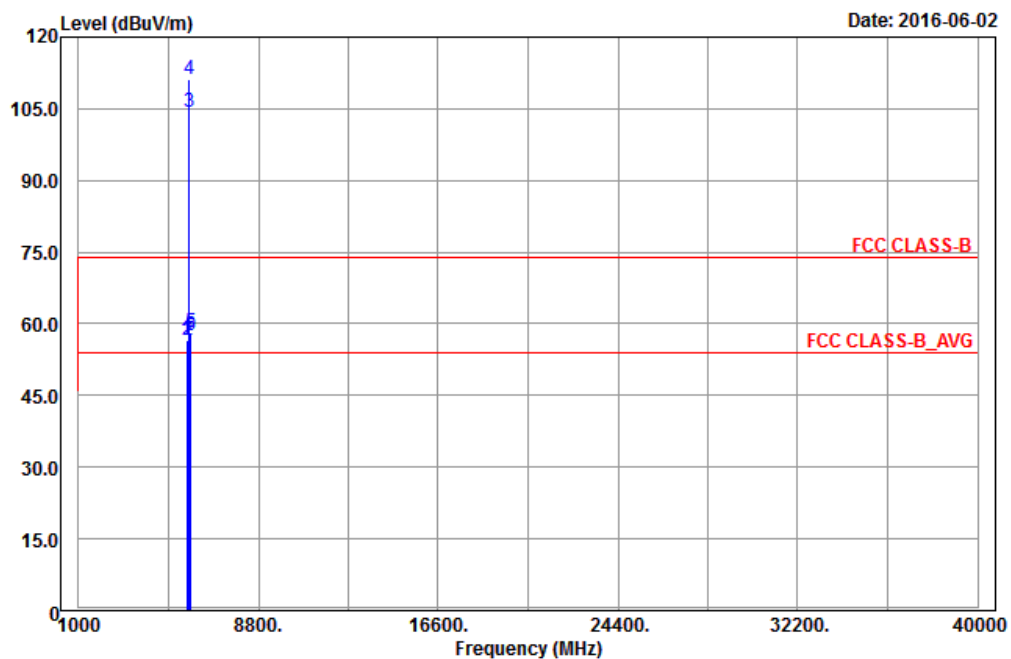
- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5745 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 157	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



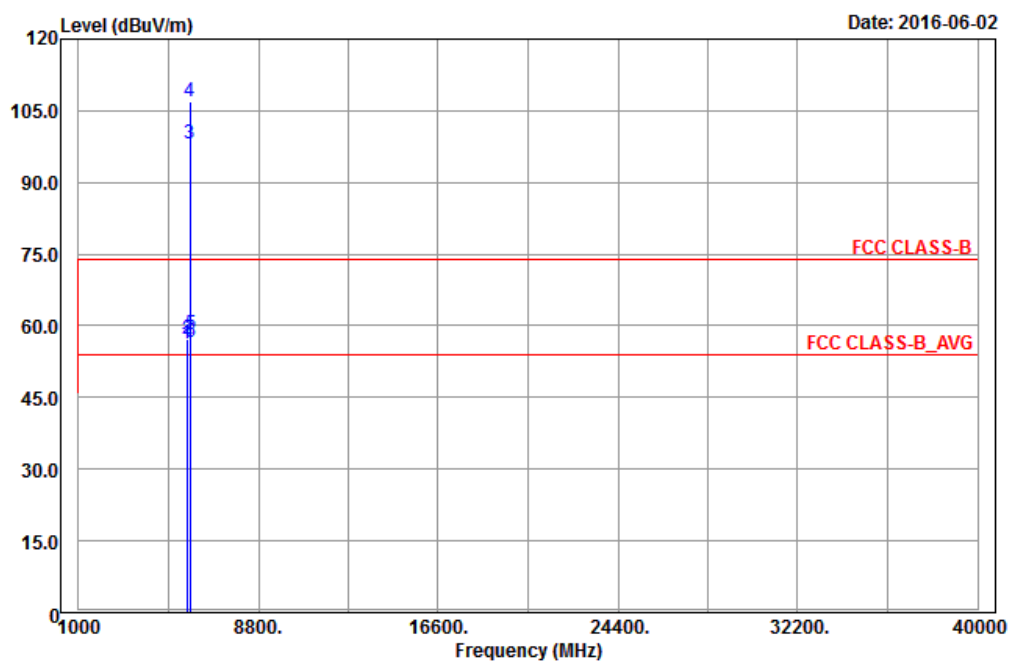
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5706	57.31	48.16	68.2	-10.89	34.61	8.65	34.11	117	91	Peak
*5718	56.45	47.29	78.2	-21.75	34.62	8.65	34.11	117	91	Peak
5785	99.34	90.11			34.68	8.68	34.13	117	91	Average
5785	106.79	97.56			34.68	8.68	34.13	117	91	Peak
*5856	58.06	48.74	78.2	-20.14	34.76	8.7	34.14	117	91	Peak
*5862	56.17	46.84	68.2	-12.03	34.76	8.71	34.14	117	91	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5706	56.58	47.43	68.2	-11.62	34.61	8.65	34.11	245	358	Peak
*5716	56.66	47.51	78.2	-21.54	34.61	8.65	34.11	245	358	Peak
5785	104.36	95.13			34.68	8.68	34.13	245	358	Average
5785	111.31	102.08			34.68	8.68	34.13	245	358	Peak
*5854	58.1	48.78	78.2	-20.1	34.76	8.7	34.14	245	358	Peak
*5866	57.54	48.21	68.2	-10.66	34.76	8.71	34.14	245	358	Peak

Remarks:

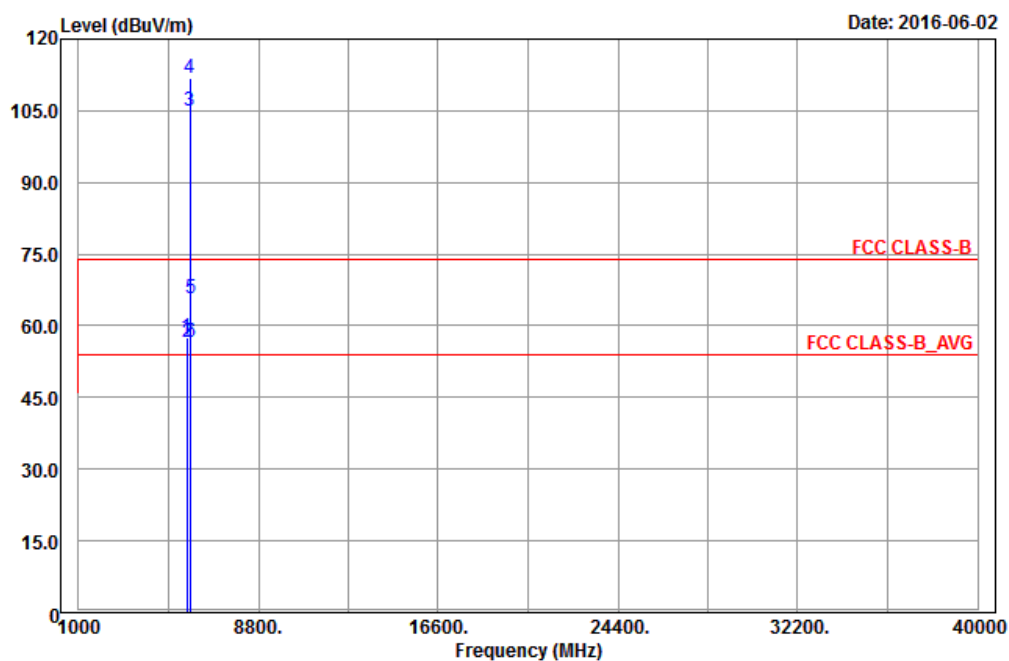
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5785 MHz: Fundamental Frequency
3. *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 165	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5708	56.33	47.18	68.2	-11.87	34.61	8.65	34.11	113	91	Peak
*5720	57.22	48.06	78.2	-20.98	34.62	8.65	34.11	113	91	Peak
5825	98.17	88.88			34.73	8.69	34.13	113	91	Average
5825	106.86	97.57			34.73	8.69	34.13	113	91	Peak
*5854	58.14	48.82	78.2	-20.06	34.76	8.7	34.14	113	91	Peak
*5868	56.6	47.27	68.2	-11.6	34.76	8.71	34.14	113	91	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5708	57.7	48.55	68.2	-10.5	34.61	8.65	34.11	245	358	Peak
*5716	56.43	47.28	78.2	-21.77	34.61	8.65	34.11	245	358	Peak
5825	104.98	95.69			34.73	8.69	34.13	245	358	Average
5825	111.8	102.51			34.73	8.69	34.13	245	358	Peak
*5854	65.8	56.48	78.2	-12.4	34.76	8.7	34.14	245	358	Peak
*5868	56.65	47.32	68.2	-11.55	34.76	8.71	34.14	245	358	Peak

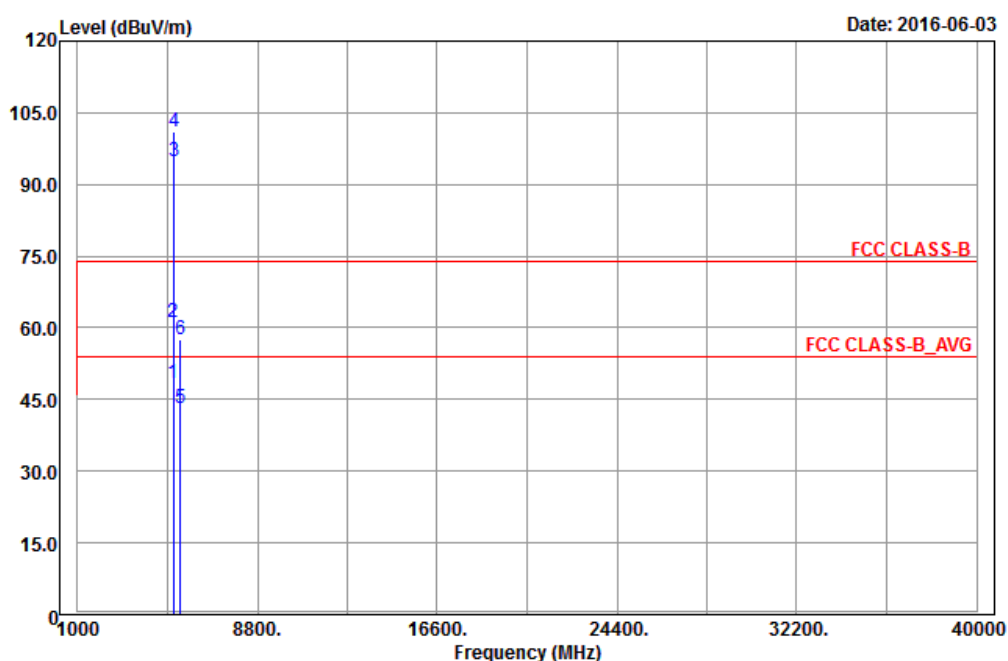
Remarks:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5825 MHz: Fundamental Frequency
3. *: Out of Restricted Band

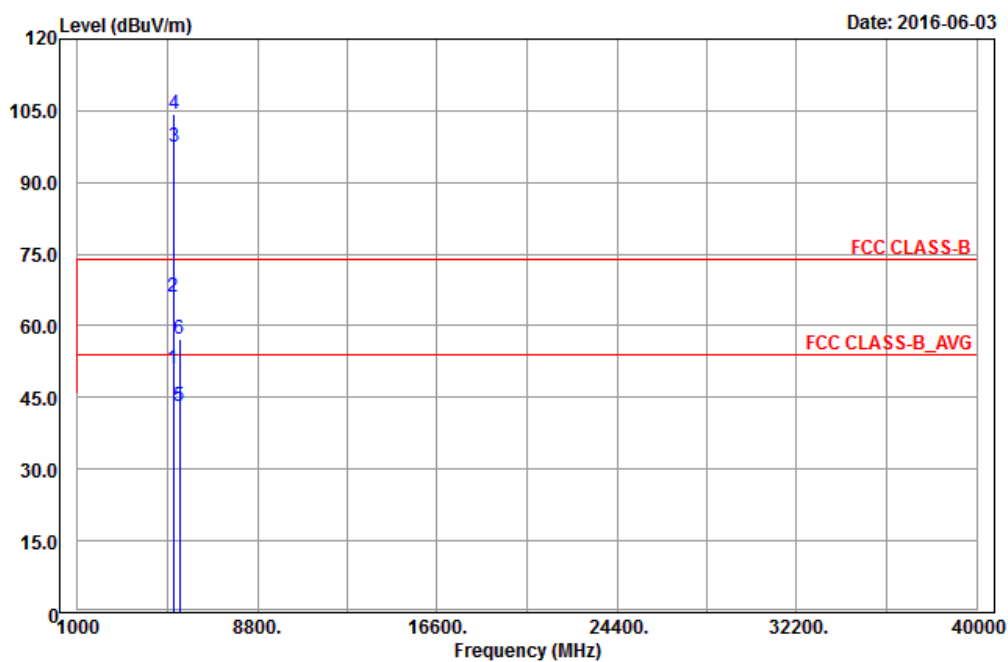
802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 38	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



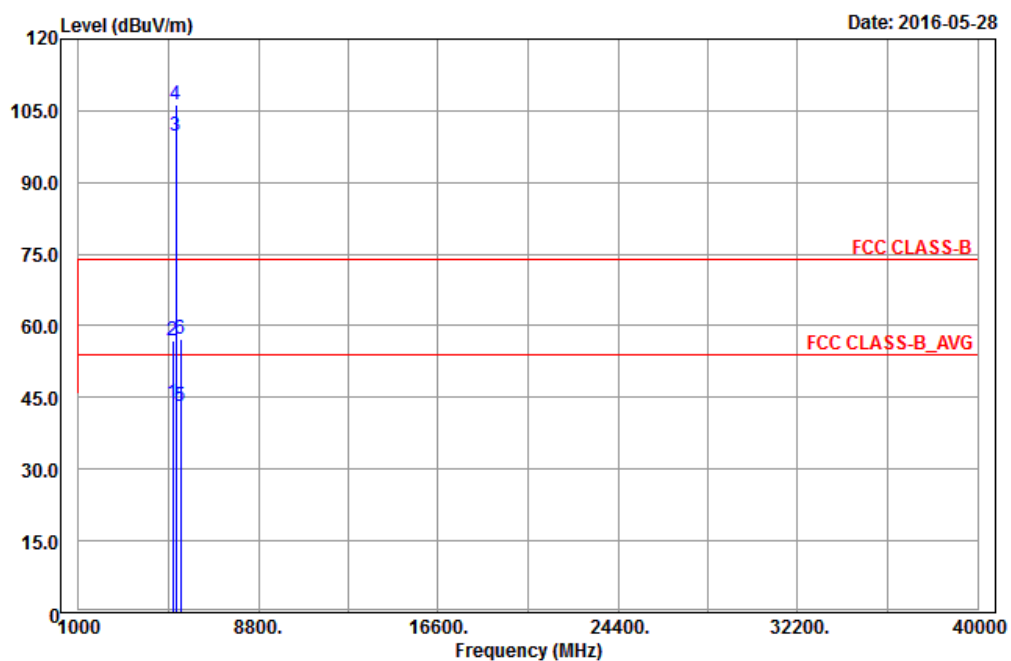
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5148	48.45	40.2	54	-5.55	34.12	8.13	34	243	358	Average
5148	61.07	52.82	74	-12.93	34.12	8.13	34	243	358	Peak
5190	94.74	86.4			34.15	8.19	34	270	358	Average
5190	101.15	92.81			34.15	8.19	34	270	358	Peak
5460	43.15	34.33	54	-10.85	34.36	8.51	34.05	270	358	Average
5460	57.59	48.77	74	-16.41	34.36	8.51	34.05	270	358	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5148	50.93	42.68	54	-3.07	34.12	8.13	34	104	18	Average
5148	65.9	57.65	74	-8.1	34.12	8.13	34	104	18	Peak
5190	97.57	89.23			34.15	8.19	34	103	18	Average
5190	104.44	96.1			34.15	8.19	34	103	18	Peak
5432	43.17	34.38	54	-10.83	34.35	8.48	34.04	103	18	Average
5432	57.17	48.38	74	-16.83	34.35	8.48	34.04	103	18	Peak

Remarks:

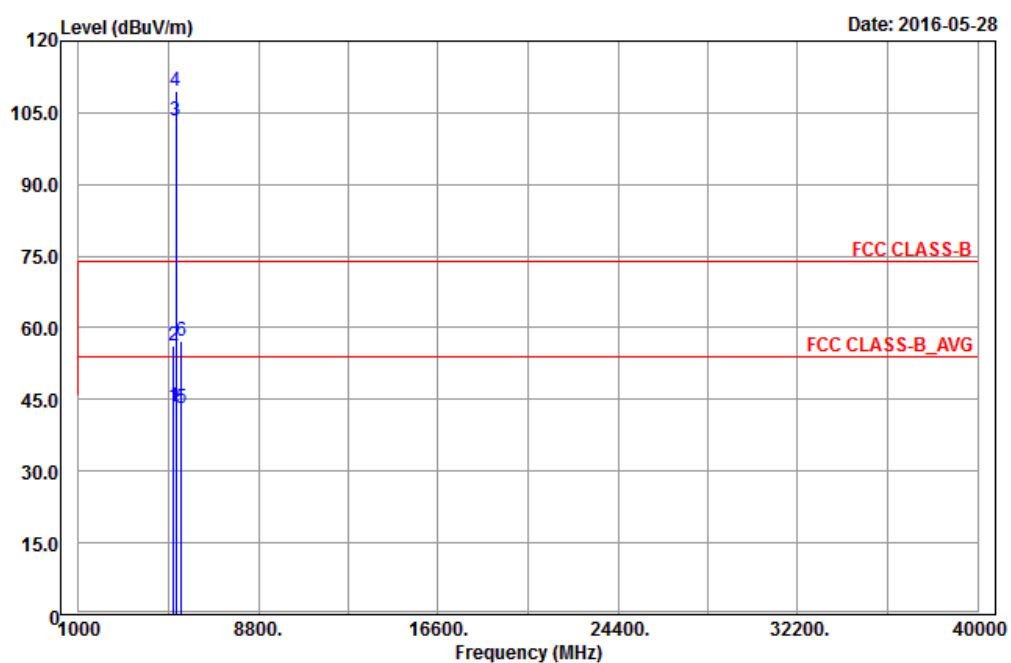
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5190 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 46	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



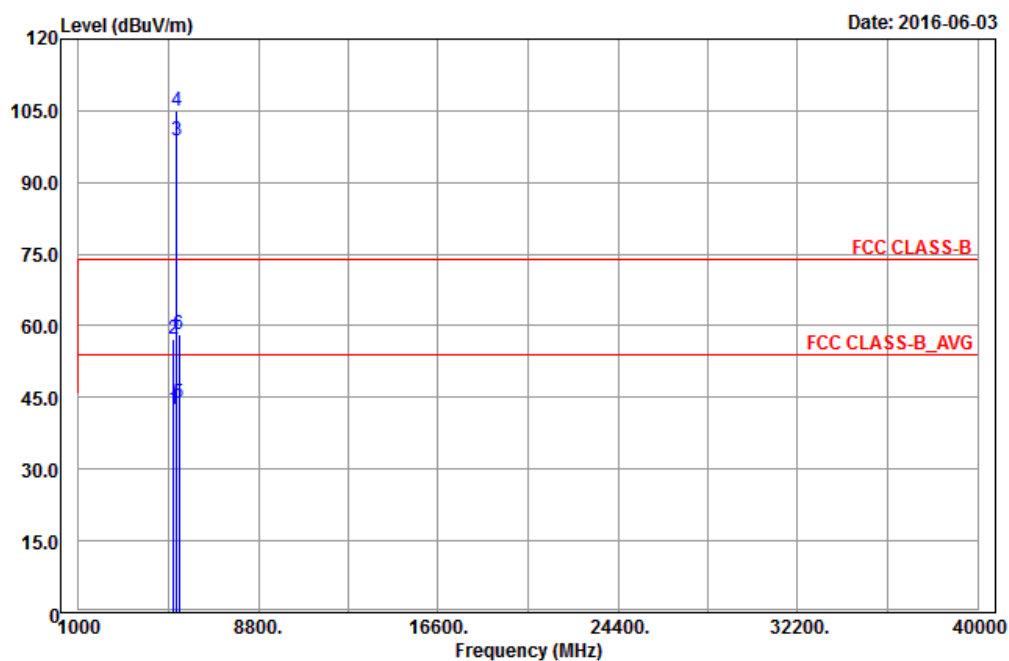
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5100	43.66	35.5	54	-10.34	34.08	8.07	33.99	264	359	Average
5100	56.97	48.81	74	-17.03	34.08	8.07	33.99	264	359	Peak
5230	99.73	91.33			34.19	8.22	34.01	264	359	Average
5230	106.19	97.79			34.19	8.22	34.01	264	359	Peak
5432	43.25	34.46	54	-10.75	34.35	8.48	34.04	264	359	Average
5432	57.19	48.4	74	-16.81	34.35	8.48	34.04	264	359	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5122	43.64	35.44	54	-10.36	34.09	8.1	33.99	111	11	Average
5122	56.32	48.12	74	-17.68	34.09	8.1	33.99	111	11	Peak
5230	103.46	95.06			34.19	8.22	34.01	111	11	Average
5230	109.54	101.14			34.19	8.22	34.01	111	11	Peak
5456	43.16	34.34	54	-10.84	34.36	8.51	34.05	111	11	Average
5456	57.31	48.49	74	-16.69	34.36	8.51	34.05	111	11	Peak

Remarks:

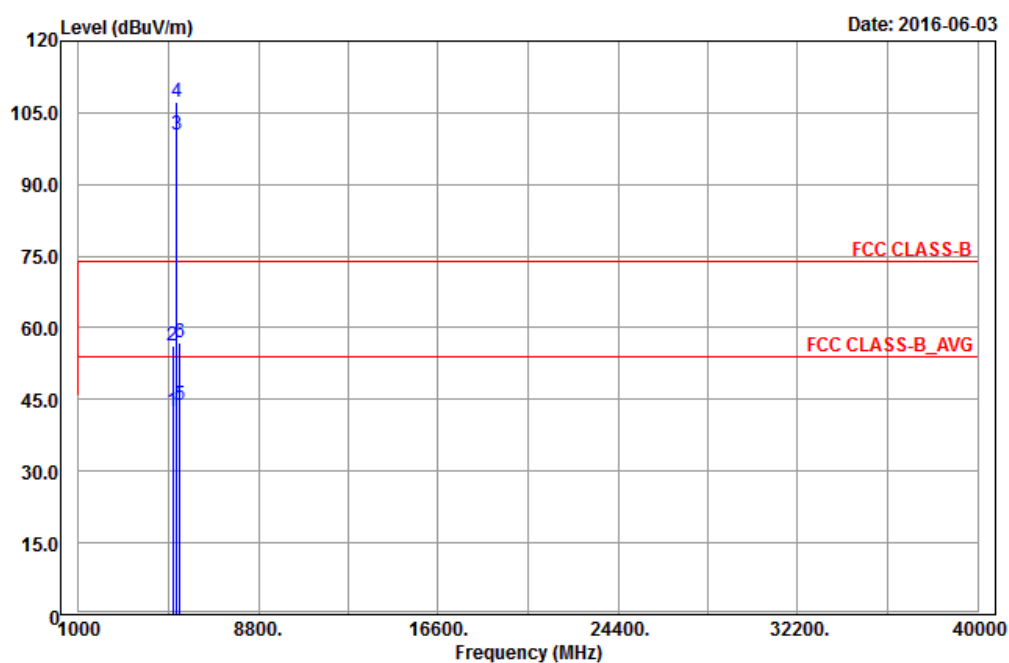
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5230 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 54	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



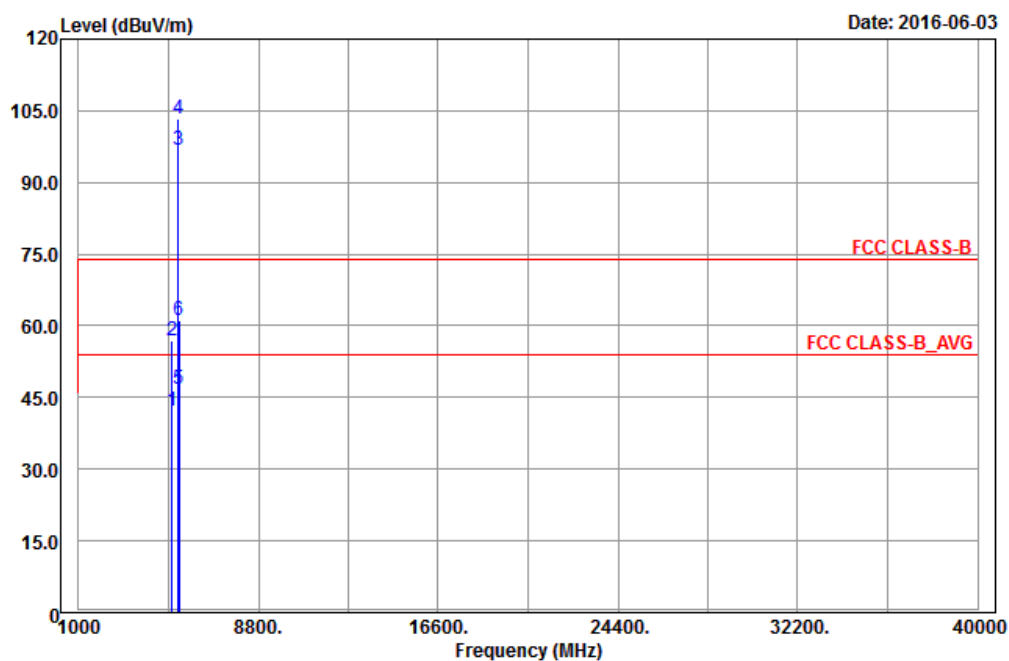
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5108	42.53	34.33	54	-11.47	34.09	8.1	33.99	287	40	Average
5108	57.19	48.99	74	-16.81	34.09	8.1	33.99	287	40	Peak
5270	98.67	90.18			34.21	8.29	34.01	287	40	Average
5270	105.03	96.54			34.21	8.29	34.01	287	40	Peak
5354	43.66	35.03	54	-10.34	34.28	8.38	34.03	287	40	Average
5354	58.07	49.44	74	-15.93	34.28	8.38	34.03	287	40	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5082	42.58	34.42	54	-11.42	34.07	8.07	33.98	111	0	Average
5082	56.33	48.17	74	-17.67	34.07	8.07	33.98	111	0	Peak
5270	100.5	92.01			34.21	8.29	34.01	111	0	Average
5270	107.28	98.79			34.21	8.29	34.01	111	0	Peak
5394	43.85	35.14	54	-10.15	34.31	8.44	34.04	111	0	Average
5394	56.87	48.16	74	-17.13	34.31	8.44	34.04	111	0	Peak

Remarks:

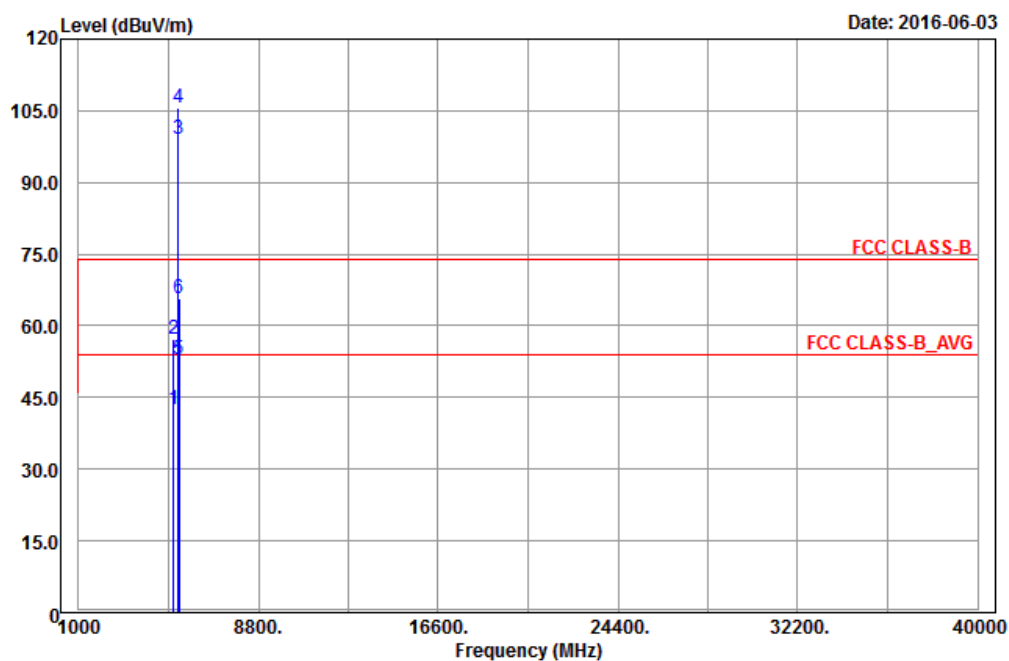
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5270 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 62	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



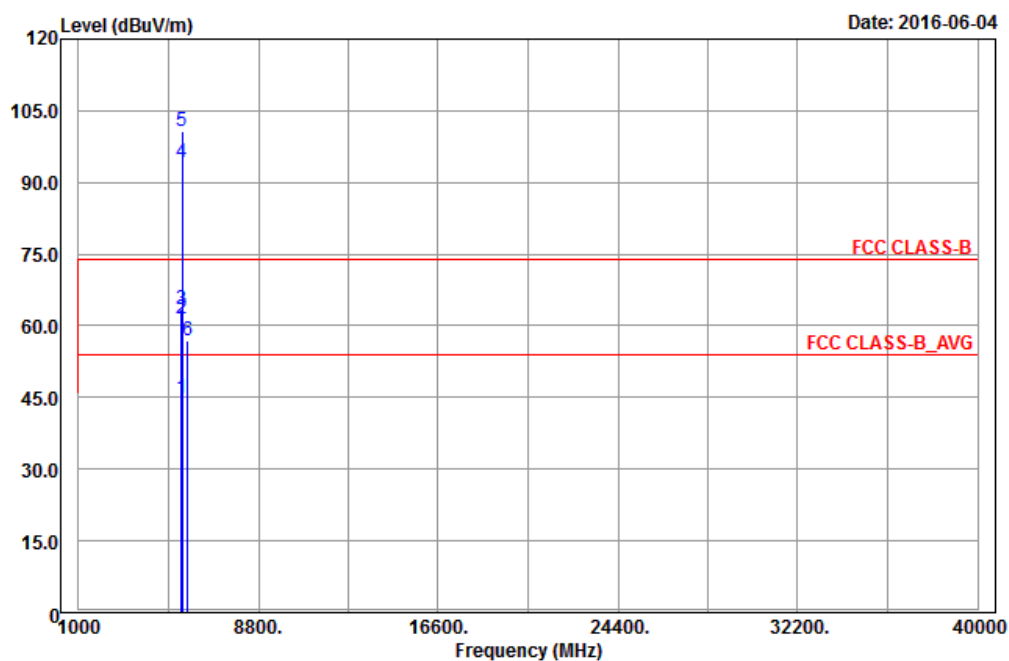
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5048	42.32	34.26	54	-11.68	34.04	8	33.98	300	40	Average
5048	56.96	48.9	74	-17.04	34.04	8	33.98	300	40	Peak
5310	96.87	88.32			34.25	8.32	34.02	300	40	Average
5310	103.4	94.85			34.25	8.32	34.02	300	40	Peak
5358	46.66	38.03	54	-7.34	34.28	8.38	34.03	300	40	Average
5358	61.1	52.47	74	-12.9	34.28	8.38	34.03	300	40	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5124	42.61	34.39	54	-11.39	34.11	8.1	33.99	100	13	Average
5124	57.19	48.97	74	-16.81	34.11	8.1	33.99	100	13	Peak
5310	98.98	90.43			34.25	8.32	34.02	100	13	Average
5310	105.69	97.14			34.25	8.32	34.02	100	13	Peak
5350	52.96	44.33	54	-1.04	34.28	8.38	34.03	100	10	Average
5350	65.7	57.07	74	-8.3	34.28	8.38	34.03	100	10	Peak

Remarks:

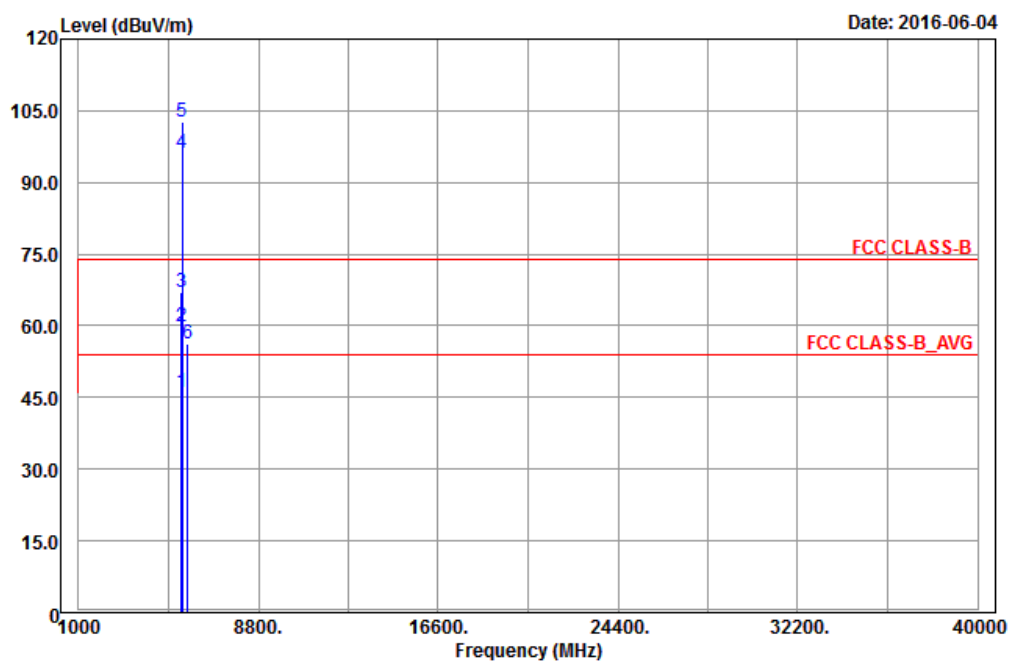
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5310 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 102	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



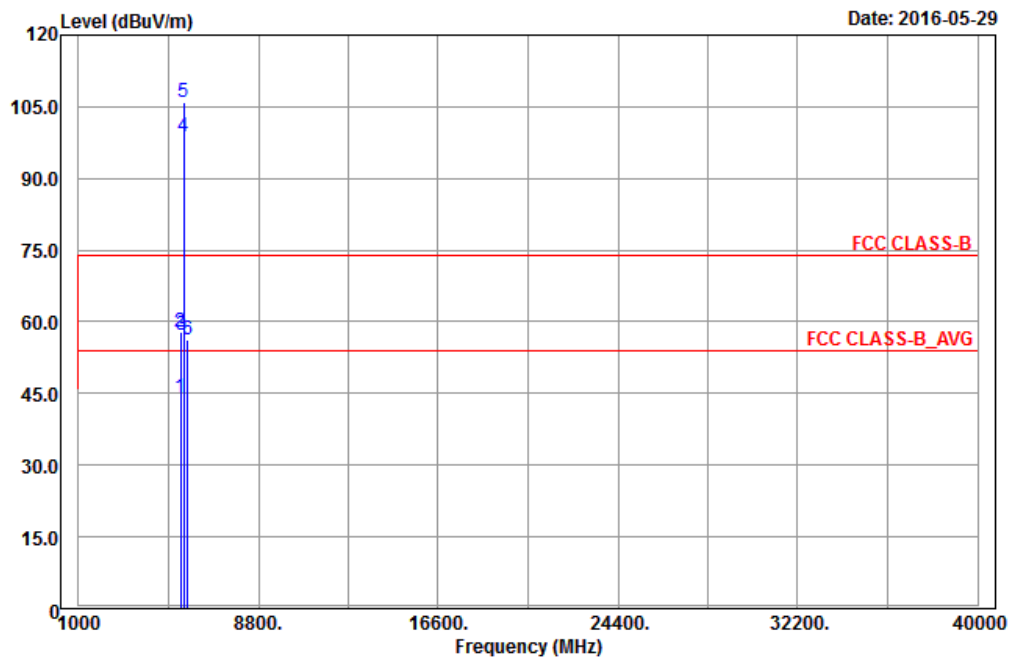
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5460	44.76	35.94	54	-9.24	34.36	8.51	34.05	279	4	Average
5460	61.61	52.79	74	-12.39	34.36	8.51	34.05	279	4	Peak
5470	63.52	54.69	68.2	-4.68	34.37	8.51	34.05	279	4	Peak
5510	94.33	85.42			34.4	8.57	34.06	279	4	Average
5510	100.76	91.85			34.4	8.57	34.06	279	4	Peak
5725	56.93	47.77	68.2	-11.27	34.62	8.65	34.11	279	4	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5452	46.16	37.34	54	-7.84	34.36	8.51	34.05	103	7	Average
5452	59.95	51.13	74	-14.05	34.36	8.51	34.05	103	7	Peak
5470	67.09	58.26	68.2	-1.11	34.37	8.51	34.05	103	7	Peak
5510	95.97	87.06			34.4	8.57	34.06	103	7	Average
5510	102.82	93.91			34.4	8.57	34.06	103	7	Peak
5725	56.09	46.93	68.2	-12.11	34.62	8.65	34.11	103	7	Peak

Remarks:

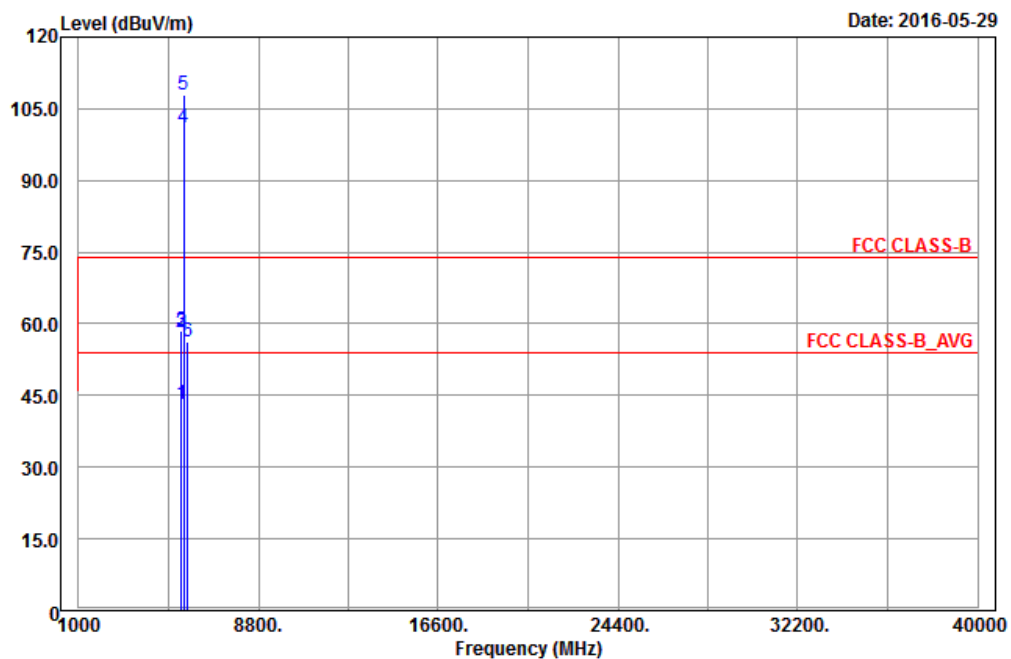
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5510 MHz: Fundamental Frequency
3. 5470 MHz & 5725 MHz: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 110	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



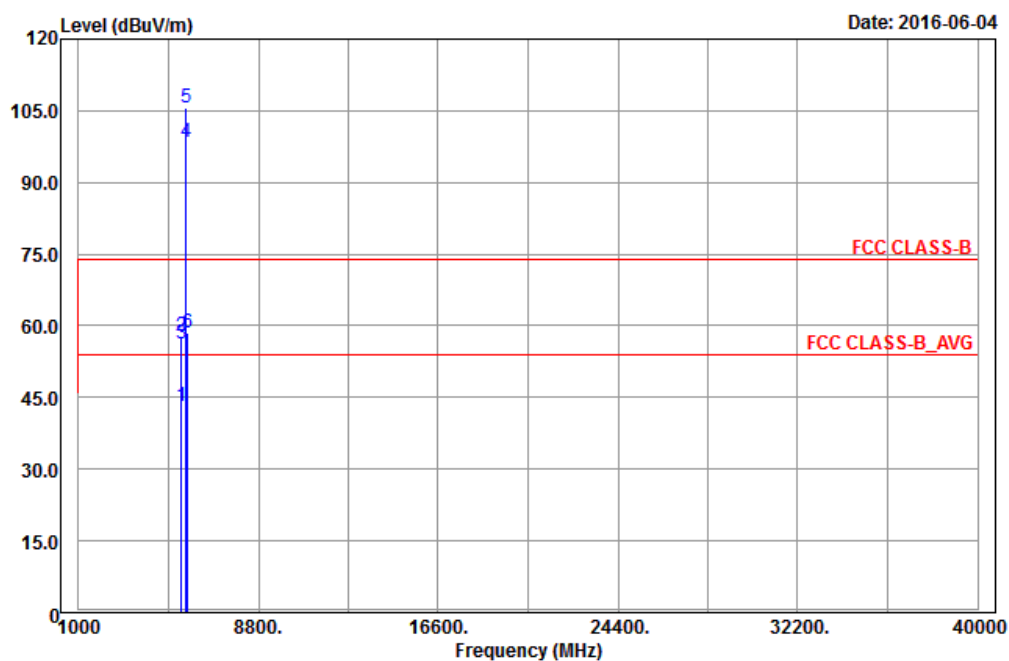
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5440	44.17	35.38	54	-9.83	34.35	8.48	34.04	294	4	Average
5440	57.78	48.99	74	-16.22	34.35	8.48	34.04	294	4	Peak
5470	57.37	48.54	68.2	-10.83	34.37	8.51	34.05	294	4	Peak
5550	98.81	89.84			34.45	8.59	34.07	294	4	Average
5550	105.87	96.9			34.45	8.59	34.07	294	4	Peak
5725	56.1	46.94	68.2	-12.1	34.62	8.65	34.11	294	4	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5454	43.1	34.28	54	-10.9	34.36	8.51	34.05	111	6	Average
5454	58.24	49.42	74	-15.76	34.36	8.51	34.05	111	6	Peak
5470	58.49	49.66	68.2	-9.71	34.37	8.51	34.05	111	6	Peak
5550	101.19	92.22			34.45	8.59	34.07	111	6	Average
5550	108.02	99.05			34.45	8.59	34.07	111	6	Peak
5725	56.26	47.1	68.2	-11.94	34.62	8.65	34.11	111	6	Peak

Remarks:

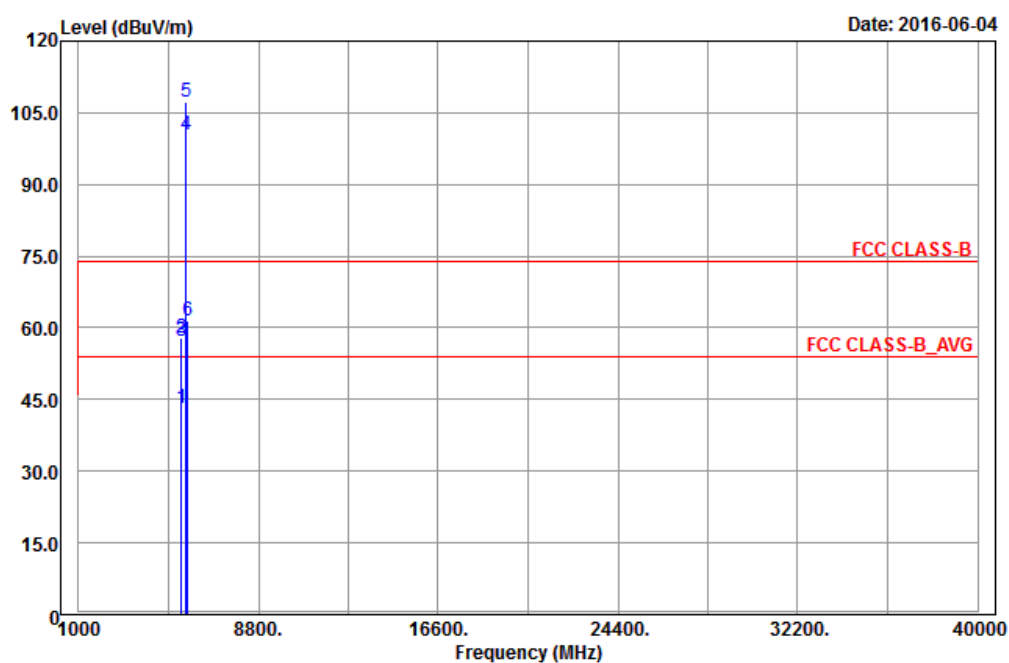
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5550 MHz: Fundamental Frequency
3. 5470 MHz & 5725 MHz: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 134	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



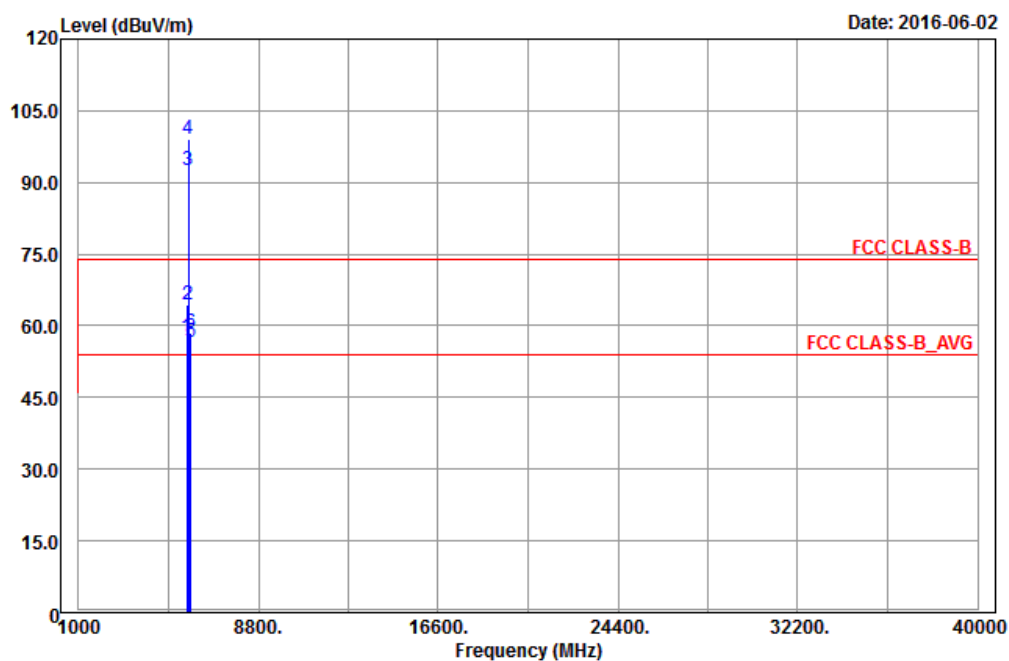
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5460	43.17	34.35	54	-10.83	34.36	8.51	34.05	298	2	Average
5460	57.89	49.07	74	-16.11	34.36	8.51	34.05	298	2	Peak
5470	56.39	47.56	68.2	-11.81	34.37	8.51	34.05	298	2	Peak
5670	98.32	89.22			34.57	8.63	34.1	298	2	Average
5670	105.45	96.35			34.57	8.63	34.1	298	2	Peak
5725	58.39	49.23	68.2	-9.81	34.62	8.65	34.11	298	2	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5452	43	34.18	54	-11	34.36	8.51	34.05	106	17	Average
5452	57.75	48.93	74	-16.25	34.36	8.51	34.05	106	17	Peak
5470	57.24	48.41	68.2	-10.96	34.37	8.51	34.05	106	17	Peak
5670	100.36	91.26			34.57	8.63	34.1	106	17	Average
5670	107.21	98.11			34.57	8.63	34.1	106	17	Peak
5725	61.36	52.2	68.2	-6.84	34.62	8.65	34.11	106	17	Peak

Remarks:

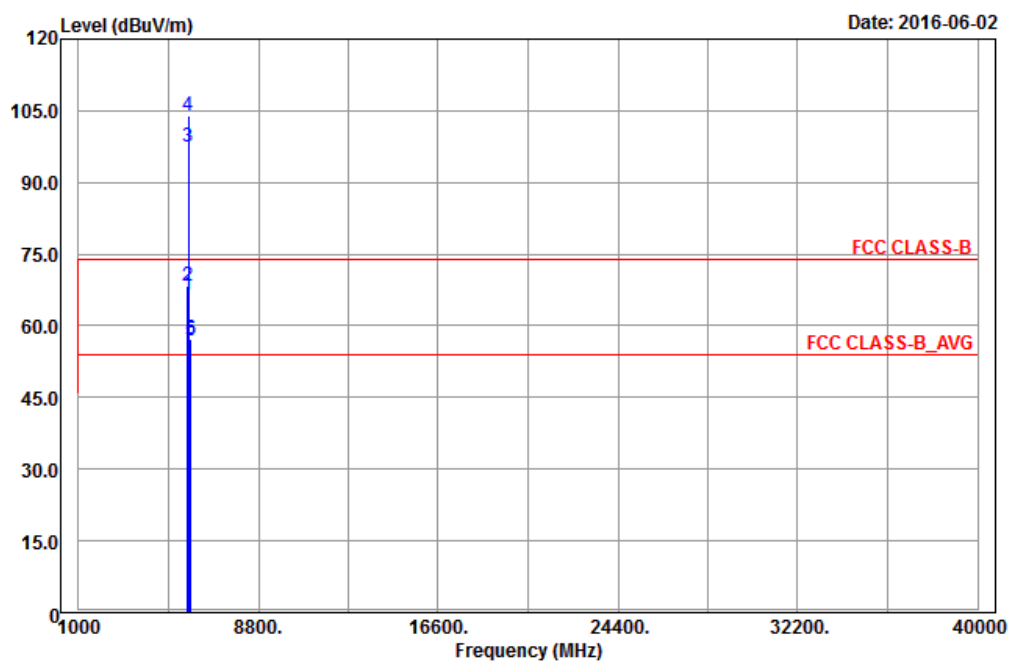
- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5670 MHz: Fundamental Frequency
- 5470 MHz & 5725 MHz: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 151	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



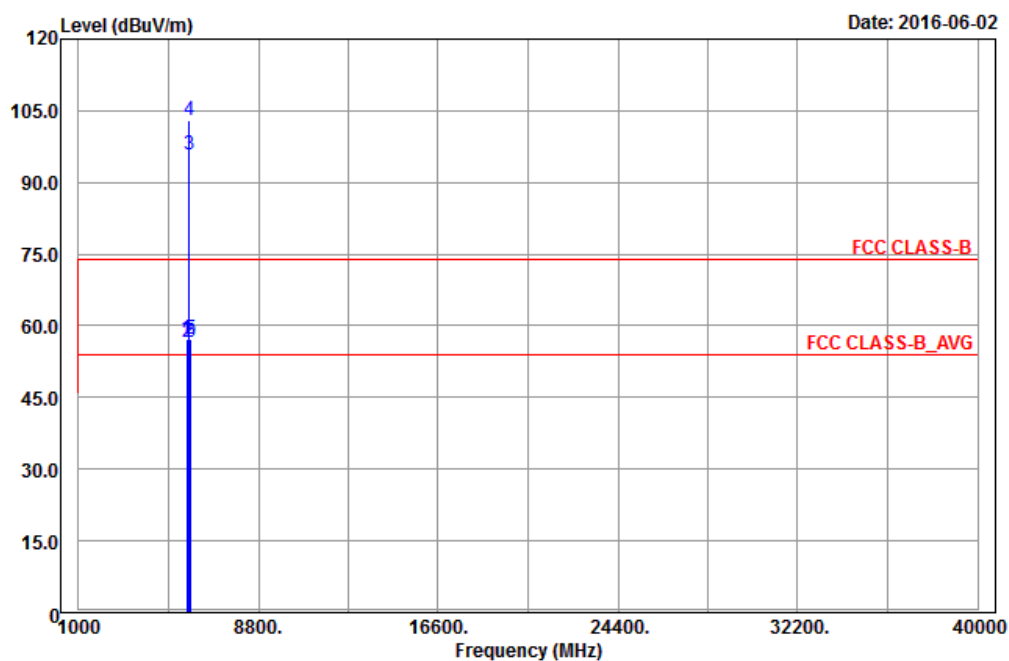
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5712	57.61	48.46	68.2	-10.59	34.61	8.65	34.11	129	91	Peak
*5724	64.26	55.1	78.2	-13.94	34.62	8.65	34.11	129	91	Peak
5755	92.57	83.36			34.66	8.66	34.11	129	91	Average
5755	99.02	89.81			34.66	8.66	34.11	129	91	Peak
*5860	56.42	47.1	78.2	-21.78	34.76	8.7	34.14	129	91	Peak
*5868	58.57	49.24	68.2	-9.63	34.76	8.71	34.14	129	91	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5714	66.44	57.29	68.2	-1.76	34.61	8.65	34.11	100	134	Peak
*5720	68.5	59.34	78.2	-9.7	34.62	8.65	34.11	100	134	Peak
5755	97.32	88.11			34.66	8.66	34.11	100	135	Average
5755	104.08	94.87			34.66	8.66	34.11	100	135	Peak
*5860	56.77	47.45	78.2	-21.43	34.76	8.7	34.14	100	135	Peak
*5864	57.3	47.97	68.2	-10.9	34.76	8.71	34.14	100	135	Peak

Remarks:

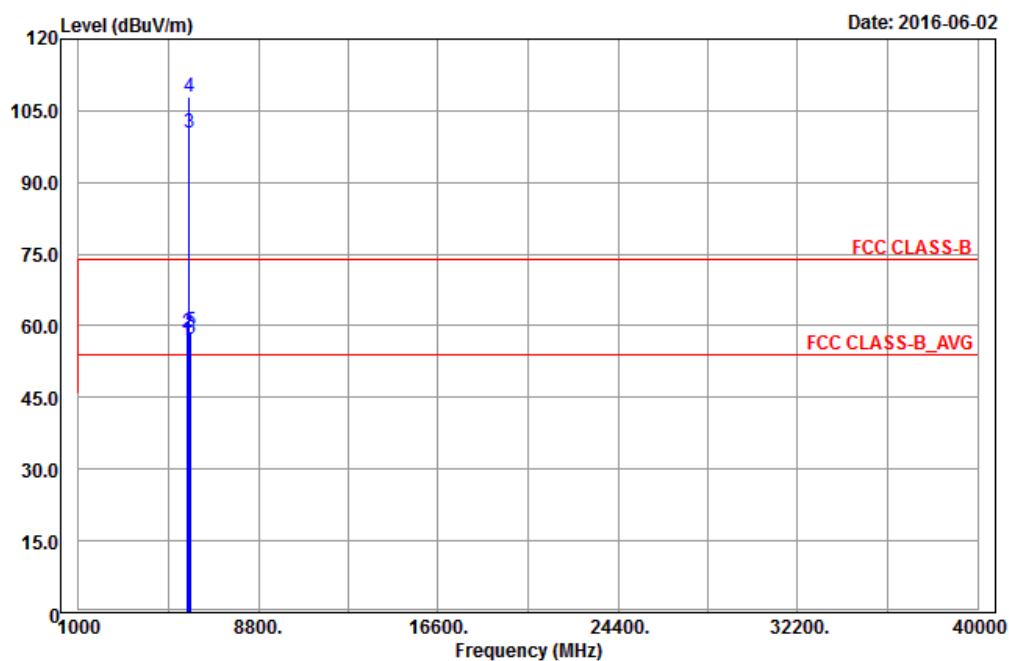
- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5755 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 159	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5706	57.24	48.09	68.2	-10.96	34.61	8.65	34.11	119	91	Peak
*5722	56.7	47.54	78.2	-21.5	34.62	8.65	34.11	119	91	Peak
5795	95.72	86.48			34.69	8.68	34.13	119	91	Average
5795	102.86	93.62			34.69	8.68	34.13	119	91	Peak
*5856	57.17	47.85	78.2	-21.03	34.76	8.7	34.14	119	91	Peak
*5866	56.6	47.27	68.2	-11.6	34.76	8.71	34.14	119	91	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5708	56.87	47.72	68.2	-11.33	34.61	8.65	34.11	245	358	Peak
*5716	58.4	49.25	78.2	-19.8	34.61	8.65	34.11	245	358	Peak
5795	100.51	91.27			34.69	8.68	34.13	245	358	Average
5795	107.9	98.66			34.69	8.68	34.13	245	358	Peak
*5856	58.88	49.56	78.2	-19.32	34.76	8.7	34.14	245	358	Peak
*5864	57.21	47.88	68.2	-10.99	34.76	8.71	34.14	245	358	Peak

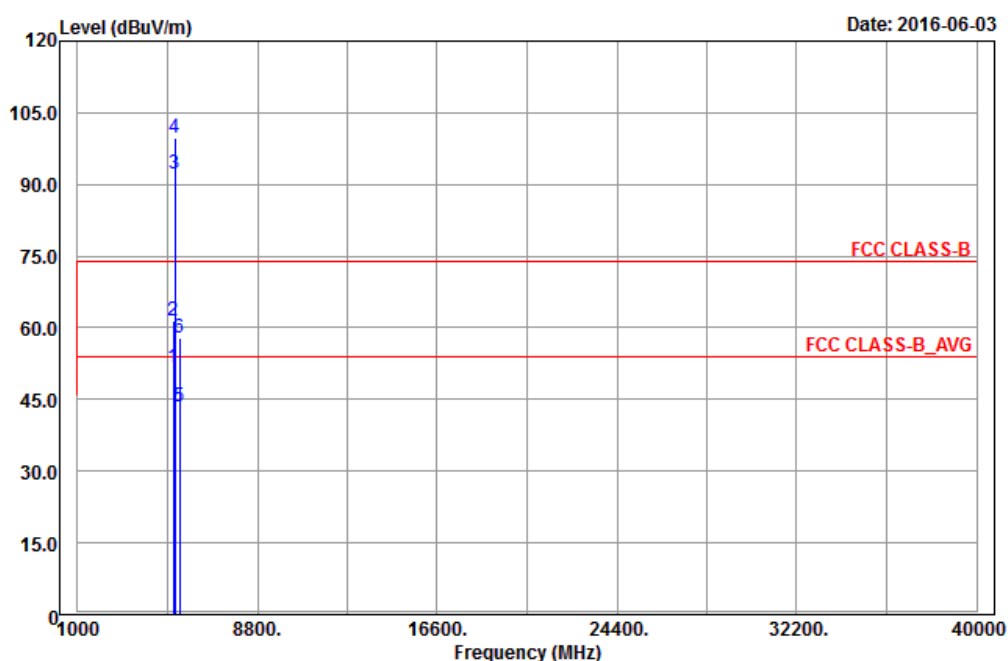
Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5795 MHz: Fundamental Frequency
- *: Out of Restricted Band

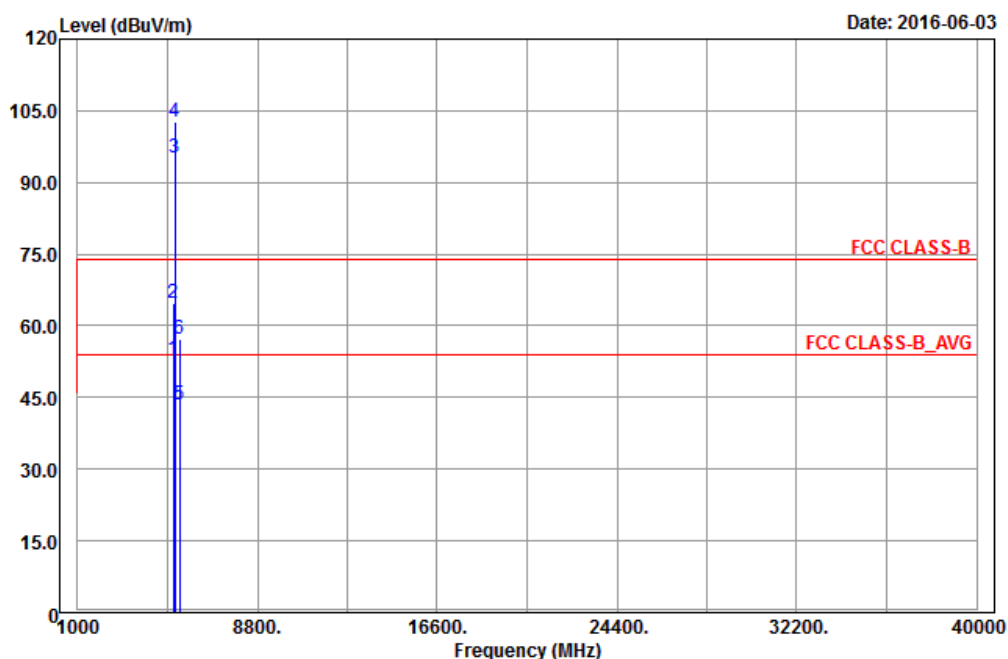
802.11ac (VHT80)

EUT Test Condition		Measurement Detail	
Channel	Channel 42	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



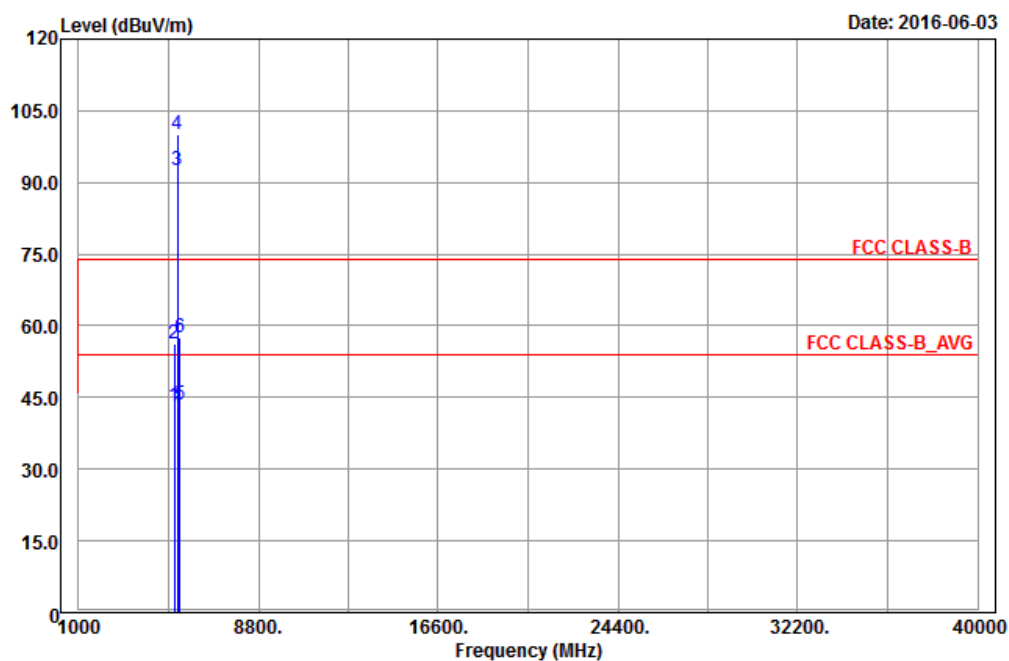
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5146	51.65	43.4	54	-2.35	34.12	8.13	34	240	358	Average
5146	61.42	53.17	74	-12.58	34.12	8.13	34	240	358	Peak
5210	92.37	84.01			34.17	8.19	34	270	358	Average
5210	99.63	91.27			34.17	8.19	34	270	358	Peak
5430	43.42	34.63	54	-10.58	34.35	8.48	34.04	270	358	Average
5430	57.8	49.01	74	-16.2	34.35	8.48	34.04	270	358	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5148	52.85	44.6	54	-1.15	34.12	8.13	34	104	18	Average
5148	64.62	56.37	74	-9.38	34.12	8.13	34	104	18	Peak
5210	95.11	86.75			34.17	8.19	34	103	18	Average
5210	102.56	94.2			34.17	8.19	34	103	18	Peak
5420	43.46	34.69	54	-10.54	34.33	8.48	34.04	103	18	Average
5420	57.35	48.58	74	-16.65	34.33	8.48	34.04	103	18	Peak

Remarks:

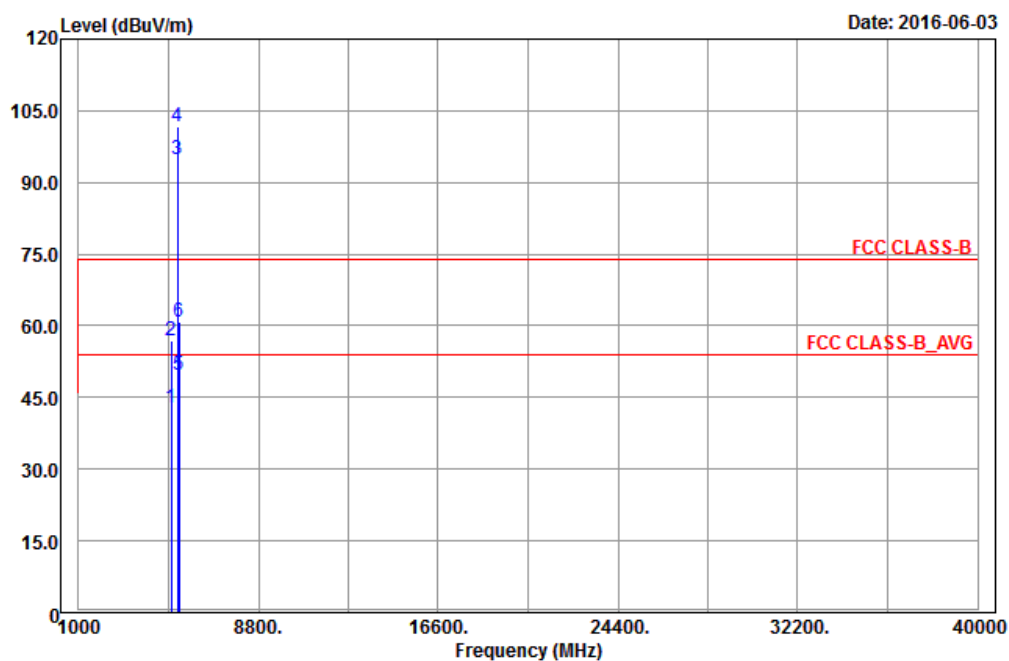
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5210 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 58	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



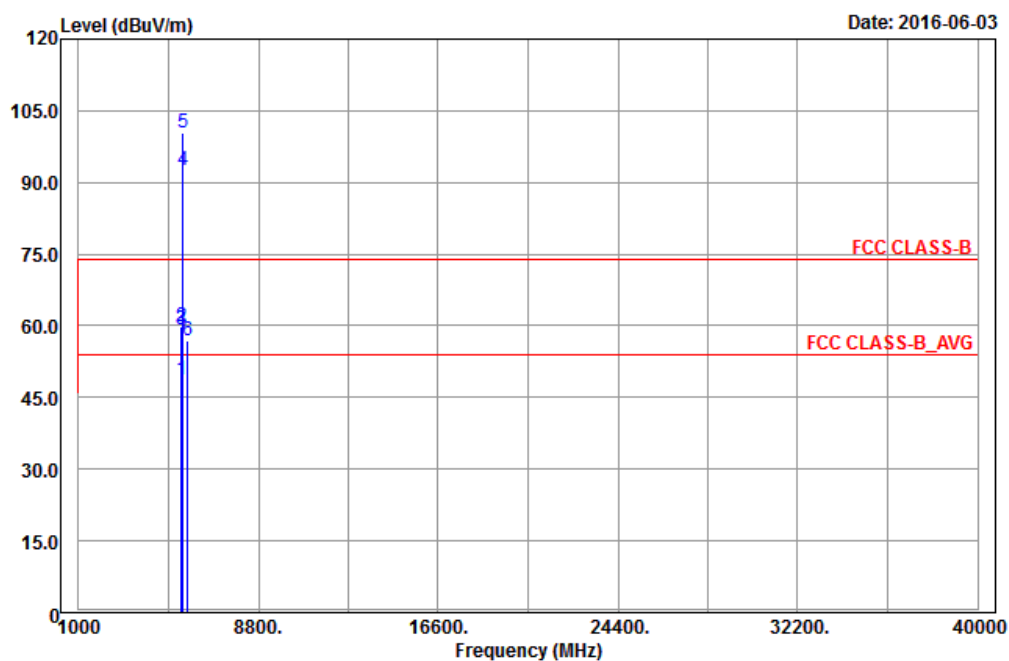
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5146	43.03	34.78	54	-10.97	34.12	8.13	34	287	0	Average
5146	56.39	48.14	74	-17.61	34.12	8.13	34	287	0	Peak
5290	92.65	84.12			34.23	8.32	34.02	287	0	Average
5290	99.9	91.37			34.23	8.32	34.02	287	0	Peak
5384	43.5	34.82	54	-10.5	34.31	8.41	34.04	287	0	Average
5384	57.54	48.86	74	-16.46	34.31	8.41	34.04	287	0	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5034	42.8	34.74	54	-11.2	34.03	8	33.97	101	12	Average
5034	56.9	48.84	74	-17.1	34.03	8	33.97	101	12	Peak
5290	94.94	86.41			34.23	8.32	34.02	101	12	Average
5290	101.57	93.04			34.23	8.32	34.02	101	12	Peak
5364	49.61	40.97	54	-4.39	34.29	8.38	34.03	100	10	Average
5364	60.85	52.21	74	-13.15	34.29	8.38	34.03	100	10	Peak

Remarks:

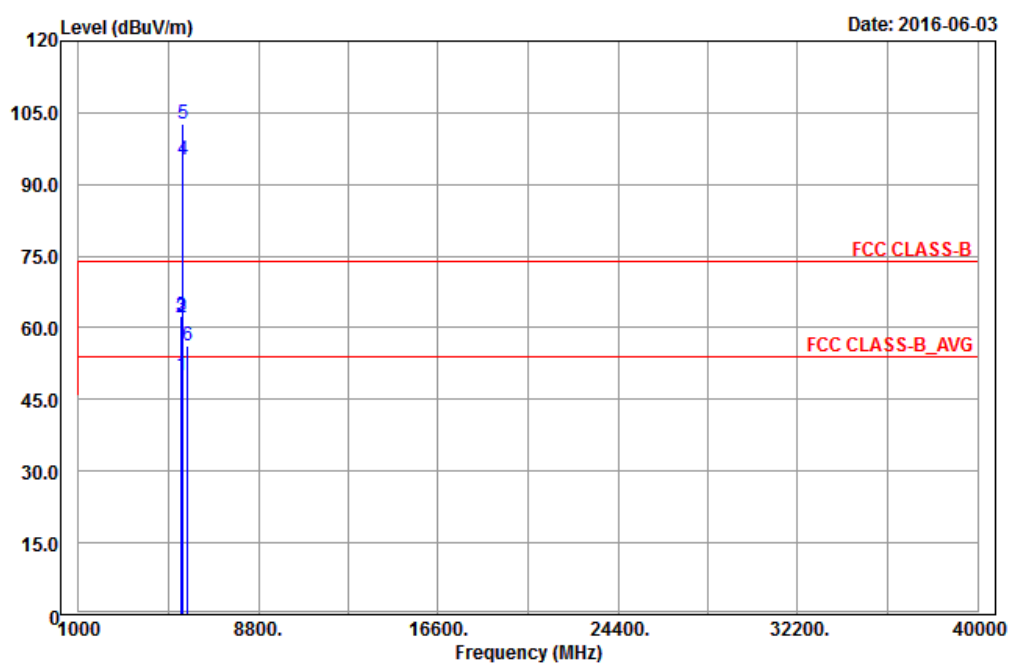
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5290 MHz: Fundamental Frequency

EUT Test Condition		Measurement Detail	
Channel	Channel 106	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



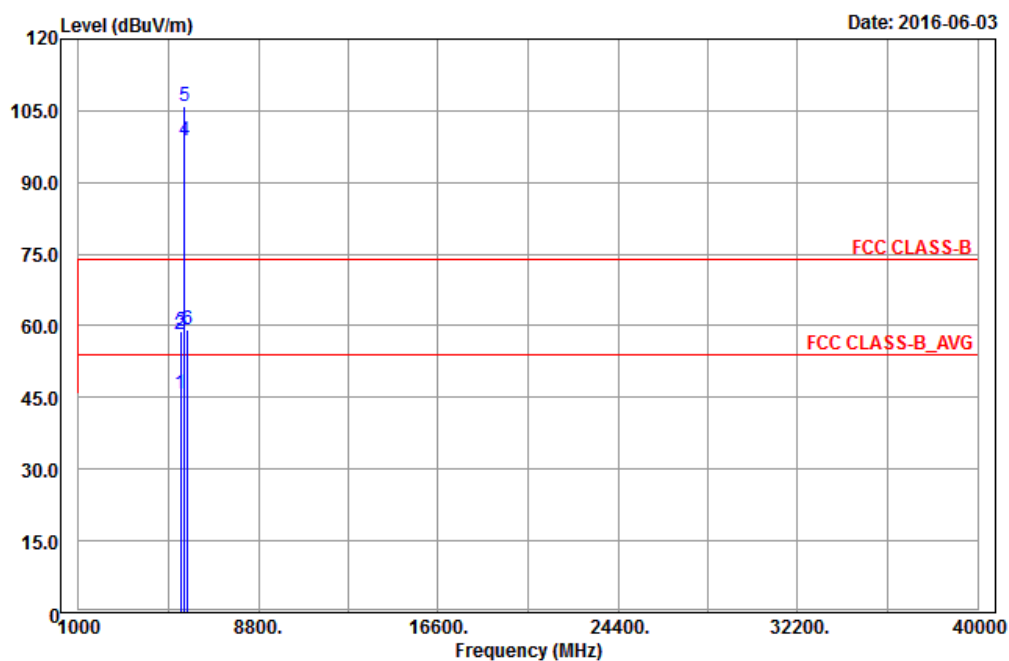
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5458	48.69	39.87	54	-5.31	34.36	8.51	34.05	283	3	Average
5458	59.69	50.87	74	-14.31	34.36	8.51	34.05	283	3	Peak
5470	59.26	50.43	68.2	-8.94	34.37	8.51	34.05	283	3	Peak
5530	92.66	83.73			34.42	8.58	34.07	283	3	Average
5530	100.49	91.56			34.42	8.58	34.07	283	3	Peak
5725	56.83	47.67	68.2	-11.37	34.62	8.65	34.11	283	3	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5446	50.04	41.21	54	-3.96	34.36	8.51	34.04	106	7	Average
5446	62.2	53.37	74	-11.8	34.36	8.51	34.04	106	7	Peak
5470	62.45	53.62	68.2	-5.75	34.37	8.51	34.05	103	11	Peak
5530	95.12	86.19			34.42	8.58	34.07	102	7	Average
5530	102.78	93.85			34.42	8.58	34.07	102	7	Peak
5725	56.17	47.01	68.2	-12.03	34.62	8.65	34.11	102	7	Peak

Remarks:

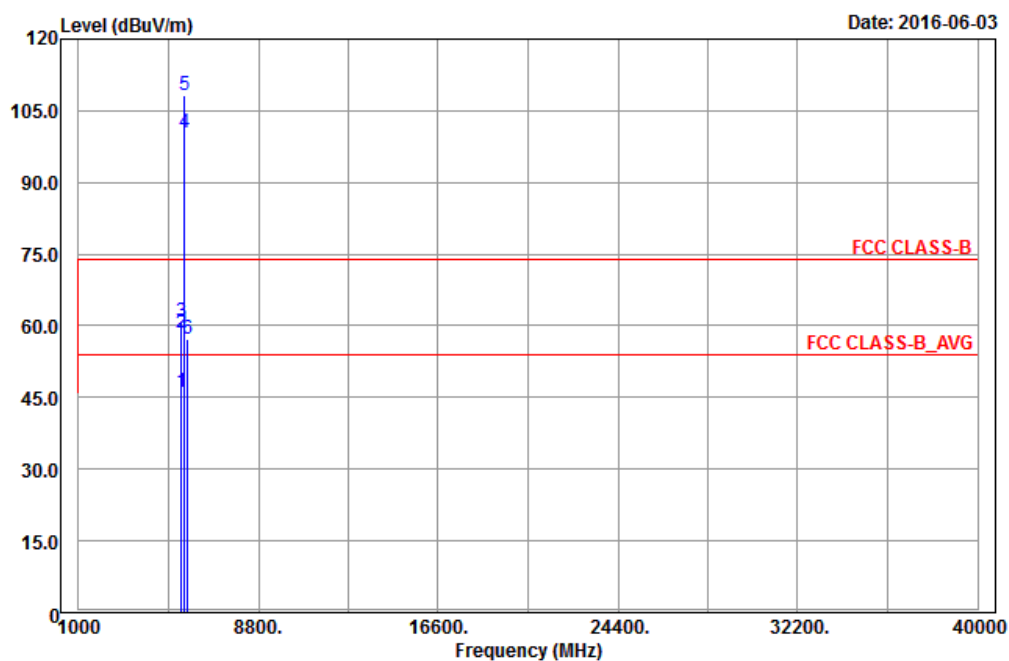
- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5530 MHz: Fundamental Frequency
- 5470 MHz & 5725 MHz: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 122	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



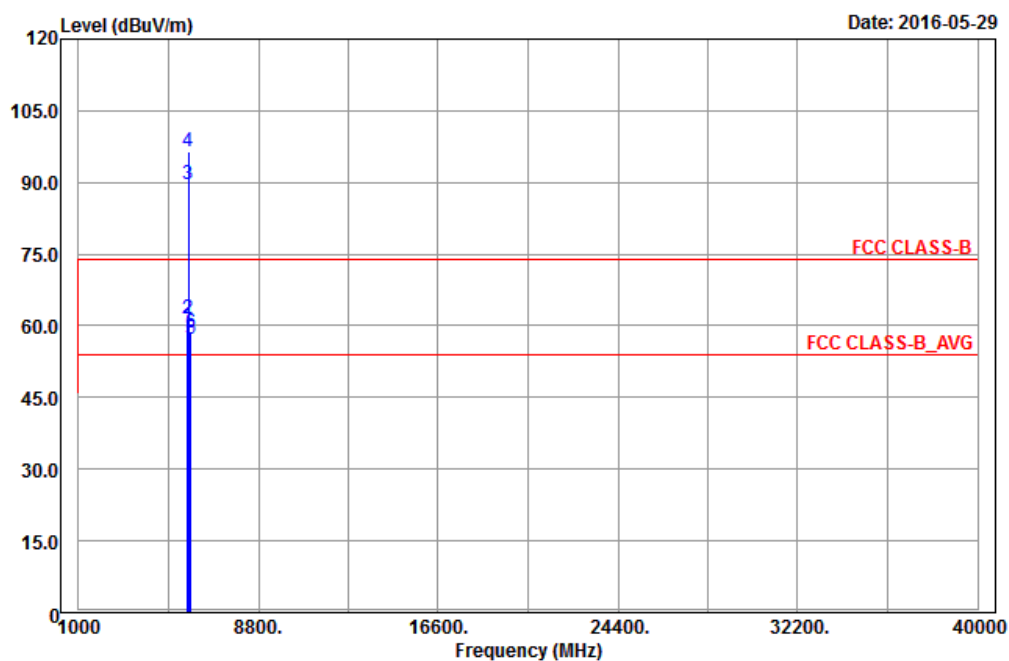
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5440	45.73	36.94	54	-8.27	34.35	8.48	34.04	278	3	Average
5440	58.17	49.38	74	-15.83	34.35	8.48	34.04	278	3	Peak
5470	58.72	49.89	68.2	-9.48	34.37	8.51	34.05	278	3	Peak
5610	98.78	89.75			34.5	8.61	34.08	278	3	Average
5610	105.96	96.93			34.5	8.61	34.08	278	3	Peak
5725	59.12	49.96	68.2	-9.08	34.62	8.65	34.11	278	3	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5458	46.17	37.35	54	-7.83	34.36	8.51	34.05	102	6	Average
5458	58.53	49.71	74	-15.47	34.36	8.51	34.05	102	6	Peak
5470	60.91	52.08	68.2	-7.29	34.37	8.51	34.05	112	6	Peak
5610	100.33	91.3			34.5	8.61	34.08	102	6	Average
5610	108.3	99.27			34.5	8.61	34.08	102	6	Peak
5725	57.13	47.97	68.2	-11.07	34.62	8.65	34.11	102	6	Peak

Remarks:

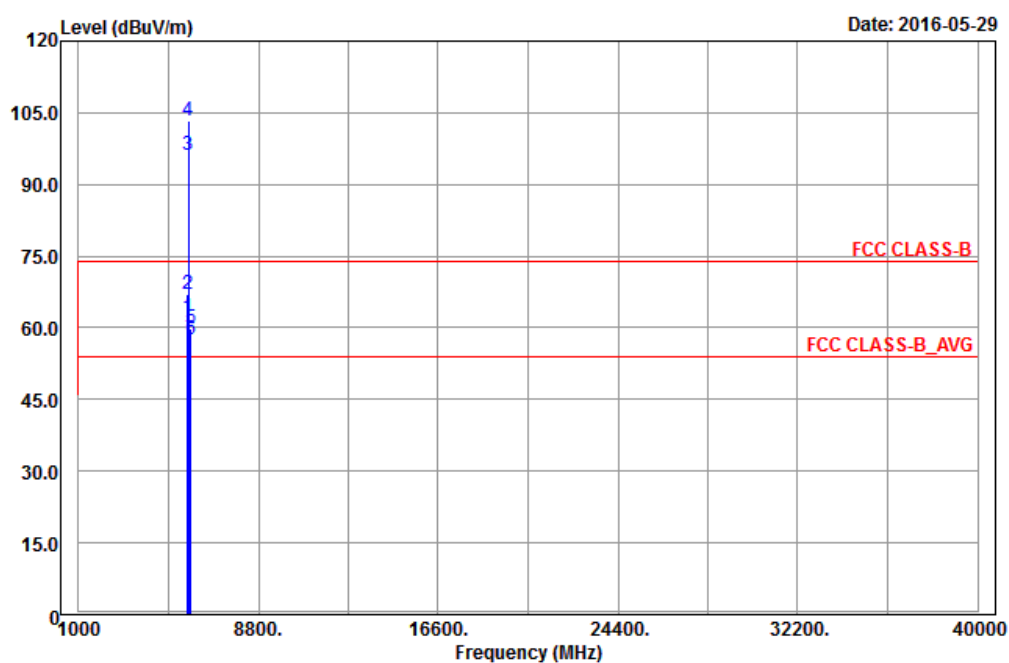
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5610 MHz: Fundamental Frequency
3. 5470 MHz & 5725 MHz: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 155	Frequency Range	1 GHz ~ 40 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5714	59.98	50.83	68.2	-8.22	34.61	8.65	34.11	111	37	Peak
*5724	61.62	52.46	78.2	-16.58	34.62	8.65	34.11	111	37	Peak
5775	89.52	80.29			34.68	8.67	34.12	111	37	Average
5775	96.58	87.35			34.68	8.67	34.12	111	37	Peak
*5854	57.22	47.9	78.2	-20.98	34.76	8.7	34.14	111	37	Peak
*5870	58.45	49.12	68.2	-9.75	34.76	8.71	34.14	111	37	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5714	62	52.85	68.2	-6.2	34.61	8.65	34.11	236	4	Peak
*5724	67.16	58	78.2	-11.04	34.62	8.65	34.11	251	16	Peak
5775	96.12	86.89			34.68	8.67	34.12	245	2	Average
5775	103.26	94.03			34.68	8.67	34.12	245	2	Peak
*5852	59.9	50.6	78.2	-18.3	34.74	8.7	34.14	245	2	Peak
*5868	57.54	48.21	68.2	-10.66	34.76	8.71	34.14	245	2	Peak

Remarks:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5775 MHz: Fundamental Frequency
3. *: Out of Restricted Band

9 kHz ~ 30 MHz DATA:

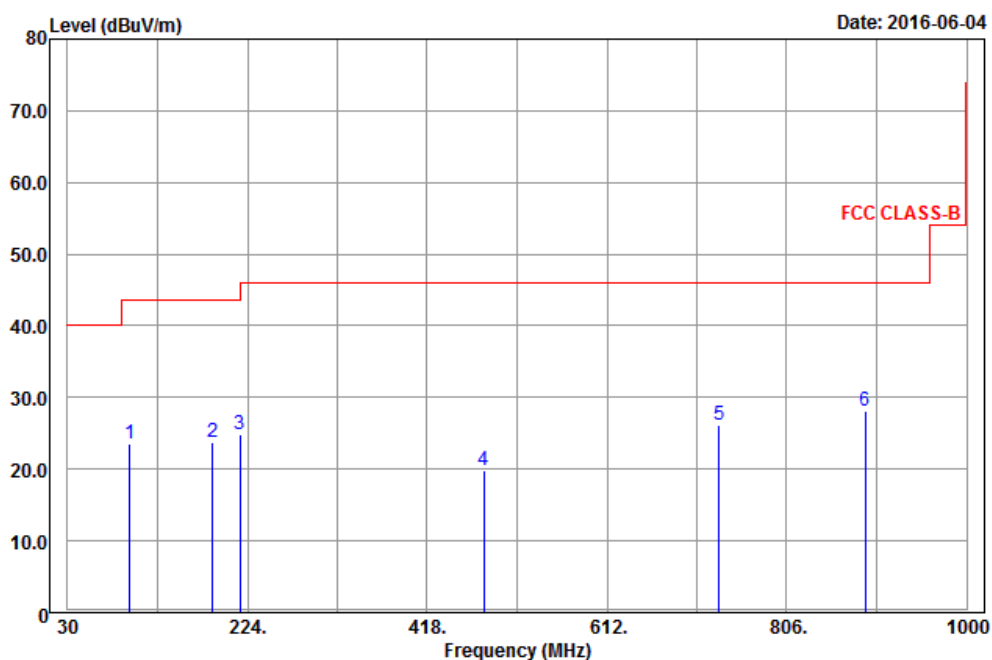
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

30 MHz ~ 1 GHz WORST-CASE DATA:

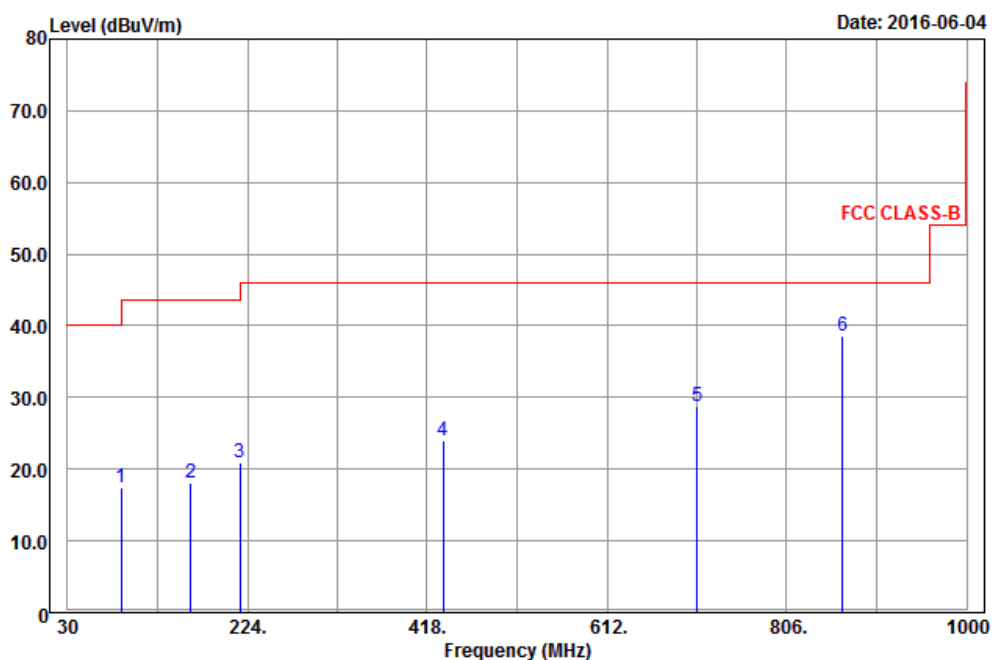
802.11ac (VHT80)

EUT Test Condition		Measurement Detail	
Channel	Channel 42	Frequency Range	30 MHz ~ 1 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
96.96	23.6	44.96	43.5	-19.9	9.46	1.28	32.1	195	135	Peak
186.6	23.71	43.95	43.5	-19.79	10.4	1.61	32.25	173	225	Peak
216.03	24.94	43.98	46	-21.06	11.54	1.65	32.23	152	114	Peak
479.2	19.94	30.58	46	-26.06	18.92	2.56	32.12	124	195	Peak
733.3	26.08	31.72	46	-19.92	23.33	3.16	32.13	137	142	Peak
890.8	28.22	31.35	46	-17.78	24.92	3.49	31.54	116	105	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
87.78	17.38	39.28	40	-22.62	8.8	1.11	31.81	105	124	Peak
162.57	18.07	38.23	43.5	-25.43	10.58	1.52	32.26	183	126	Peak
216.03	20.9	39.94	46	-25.1	11.54	1.65	32.23	176	144	Peak
435.1	23.99	35.83	46	-22.01	17.84	2.49	32.17	174	165	Peak
709.5	28.86	34.62	46	-17.14	23.23	3.11	32.1	135	169	Peak
866.3	38.56	42.41	46	-7.44	24.4	3.44	31.69	117	142	Peak

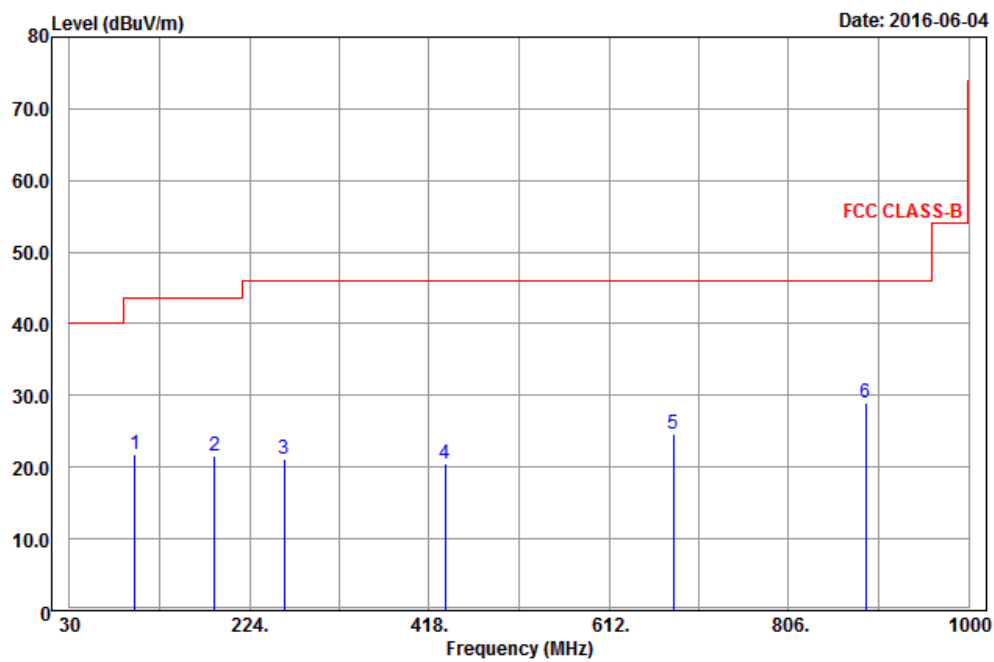
Remarks:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value

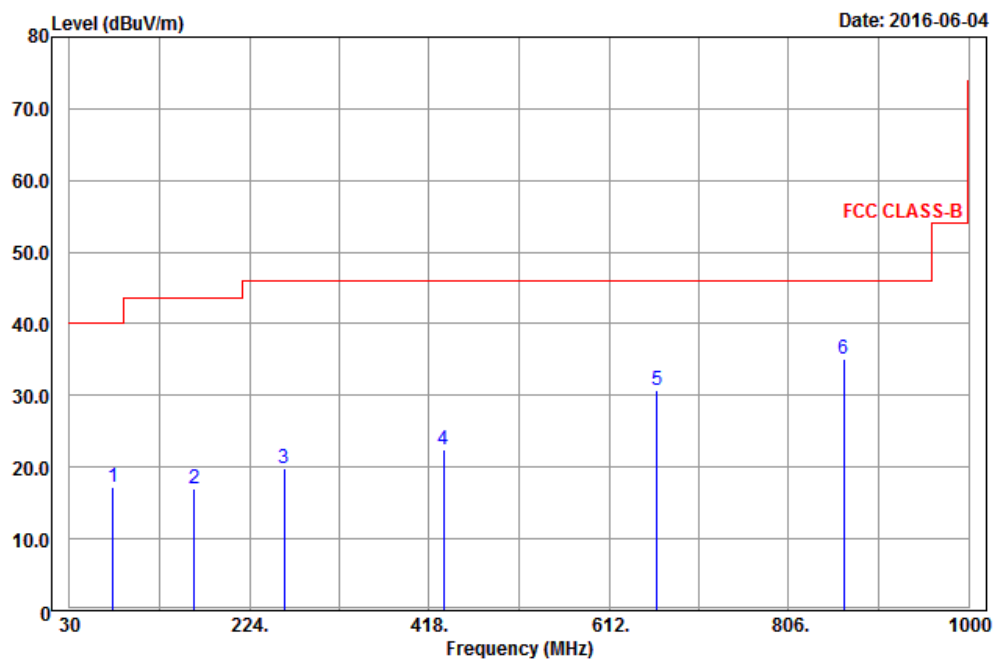
802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 62	Frequency Range	30 MHz ~ 1 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
100.47	21.81	43.09	43.5	-21.69	9.7	1.28	32.26	117	143	Peak
186.33	21.52	41.76	43.5	-21.98	10.4	1.61	32.25	169	135	Peak
261.12	21.2	38.03	46	-24.8	13.33	1.94	32.1	185	146	Peak
435.1	20.43	32.27	46	-25.57	17.84	2.49	32.17	162	138	Peak
681.5	24.62	30.37	46	-21.38	23.31	3.05	32.11	114	125	Peak
888.7	28.99	32.14	46	-17.01	24.92	3.49	31.56	106	136	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
76.71	17.16	39.97	40	-22.84	8.3	1.11	32.22	169	175	Peak
164.19	17.08	37.38	43.5	-26.42	10.44	1.52	32.26	124	146	Peak
261.12	19.82	36.65	46	-26.18	13.33	1.94	32.1	175	148	Peak
433.7	22.51	34.38	46	-23.49	17.81	2.49	32.17	176	138	Peak
664	30.76	37.15	46	-15.24	22.75	2.99	32.13	128	159	Peak
865.6	35.12	38.98	46	-10.88	24.4	3.44	31.7	115	120	Peak

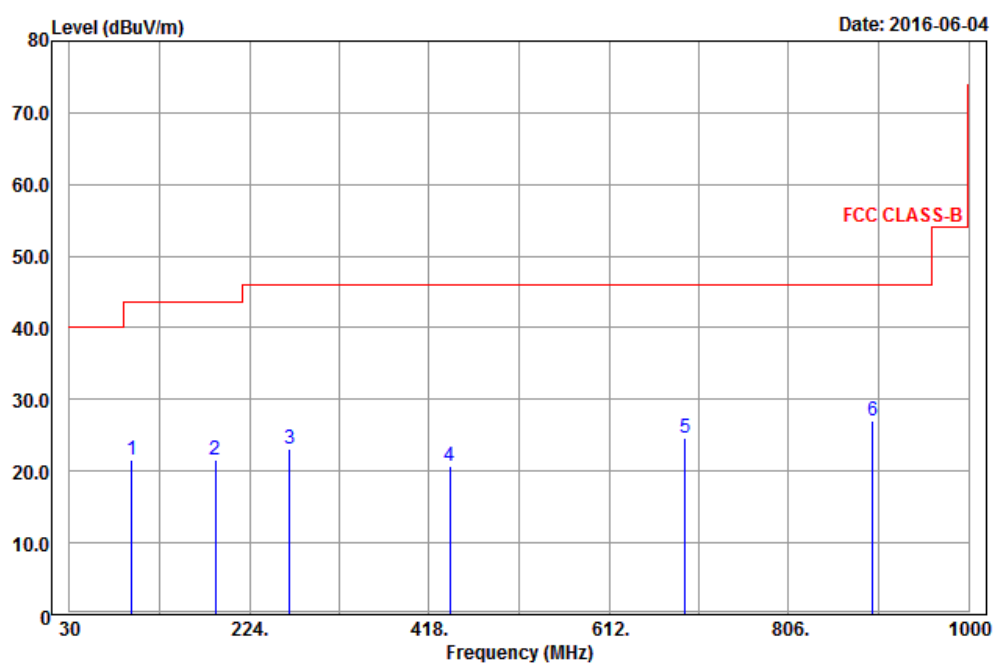
Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value

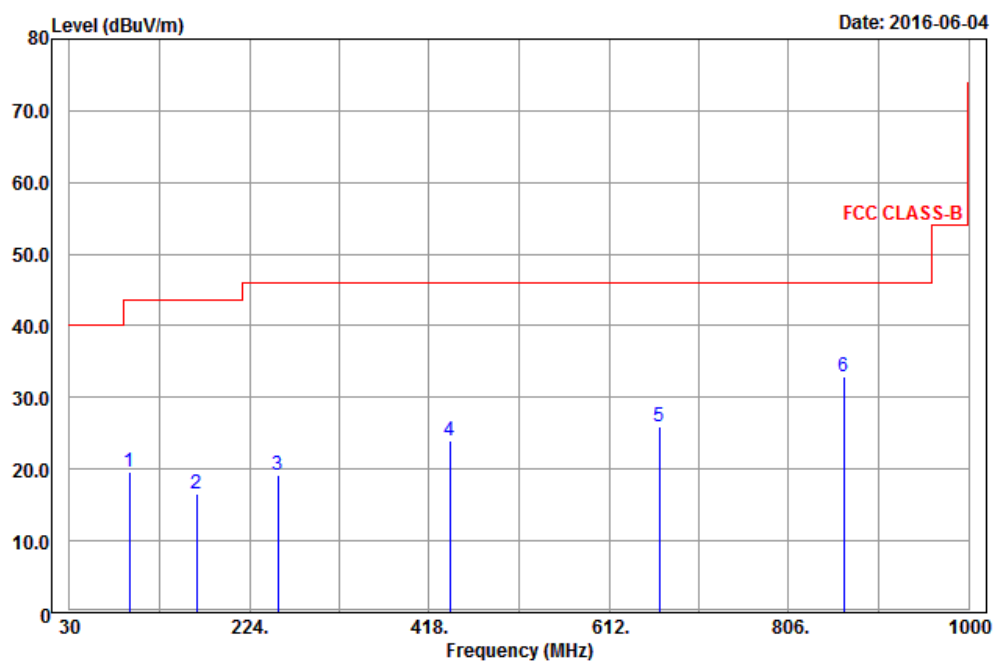
802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 102	Frequency Range	30 MHz ~ 1 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
96.96	21.48	42.84	43.5	-22.02	9.46	1.28	32.1	143	128	Peak
187.68	21.67	41.91	43.5	-21.83	10.4	1.61	32.25	160	175	Peak
267.33	23.16	39.84	46	-22.84	13.49	1.94	32.11	145	117	Peak
440.7	20.61	32.39	46	-25.39	17.89	2.49	32.16	185	162	Peak
694.1	24.59	30.43	46	-21.41	23.14	3.11	32.09	133	124	Peak
896.4	26.99	30.01	46	-19.01	25	3.49	31.51	184	126	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
94.53	19.64	41.26	43.5	-23.86	9.26	1.11	31.99	174	124	Peak
167.43	16.49	37	43.5	-27.01	10.22	1.52	32.25	169	135	Peak
254.91	19.2	36.2	46	-26.8	13.16	1.94	32.1	155	124	Peak
440.7	23.9	35.68	46	-22.1	17.89	2.49	32.16	106	132	Peak
666.1	25.9	32.07	46	-20.1	22.97	2.99	32.13	196	153	Peak
865.6	32.95	36.81	46	-13.05	24.4	3.44	31.7	114	127	Peak

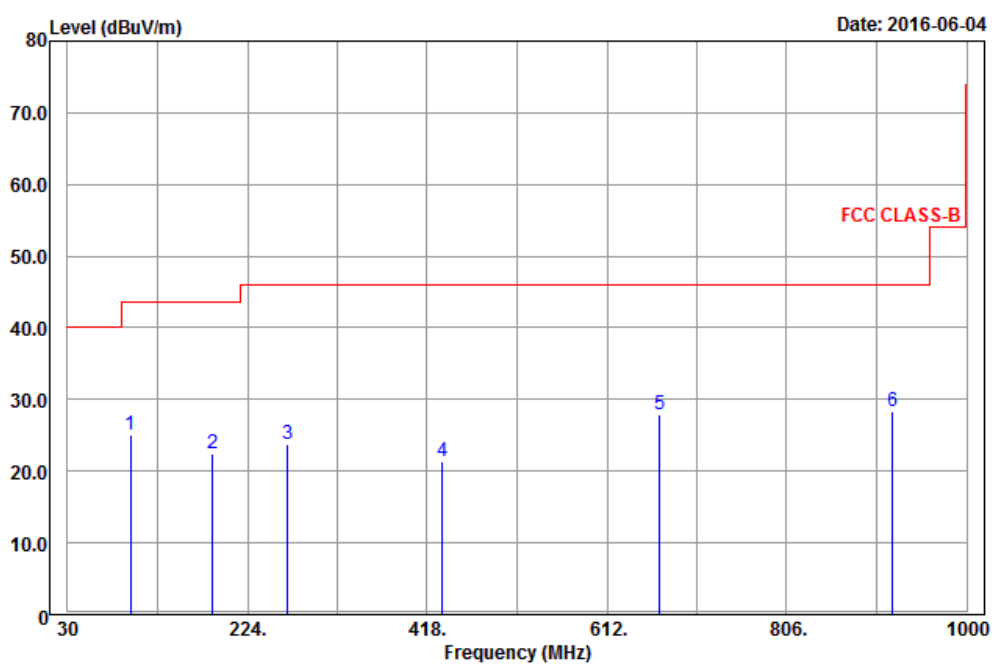
Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value

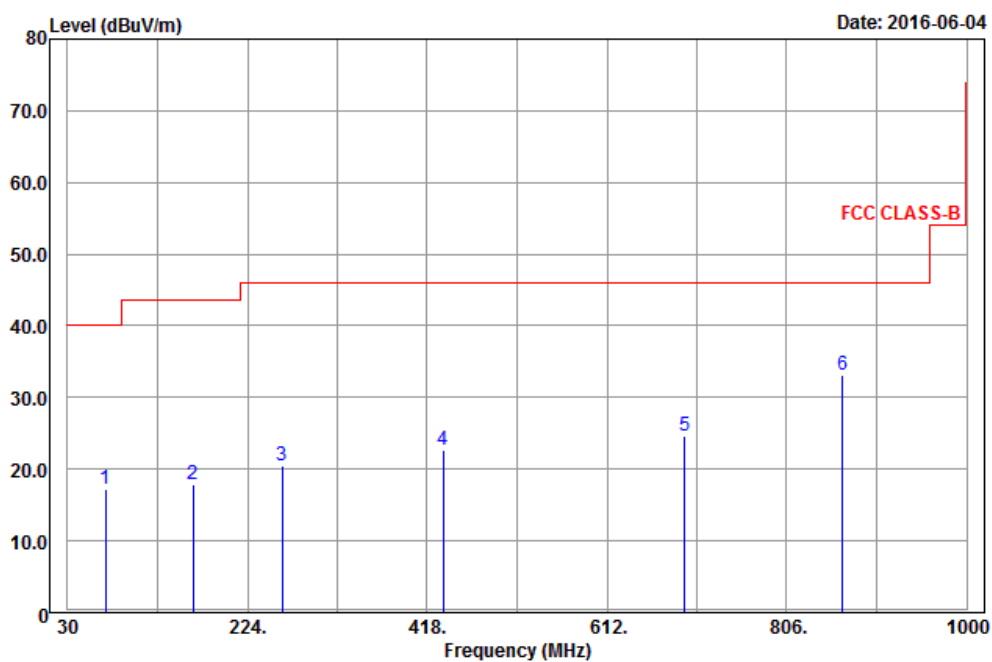
802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 151	Frequency Range	30 MHz ~ 1 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical



Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
98.31	24.99	46.32	43.5	-18.51	9.54	1.28	32.15	136	128	Peak
186.33	22.44	42.68	43.5	-21.06	10.4	1.61	32.25	124	115	Peak
267.33	23.84	40.52	46	-22.16	13.49	1.94	32.11	169	128	Peak
434.4	21.33	33.2	46	-24.67	17.81	2.49	32.17	174	125	Peak
668.9	27.96	33.86	46	-18.04	23.18	3.05	32.13	186	135	Peak
920.2	28.42	30.26	46	-17.58	25.96	3.53	31.33	164	127	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
70.5	17.2	40.2	40	-22.8	8.11	1.11	32.22	152	141	Peak
165.54	17.95	38.32	43.5	-25.55	10.36	1.52	32.25	134	128	Peak
261.12	20.55	37.38	46	-25.45	13.33	1.94	32.1	160	139	Peak
435.1	22.75	34.59	46	-23.25	17.84	2.49	32.17	130	122	Peak
696.2	24.69	30.53	46	-21.31	23.14	3.11	32.09	184	156	Peak
866.3	33.21	37.06	46	-12.79	24.4	3.44	31.69	176	145	Peak

Remarks:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value

4.2 Transmit Power Measurement

4.2.1 Limits of Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125 mW (21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	✓	Mobile and Portable client device	250 mW (24 dBm)
U-NII-2A		✓	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C		✓	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-3		✓	1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

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

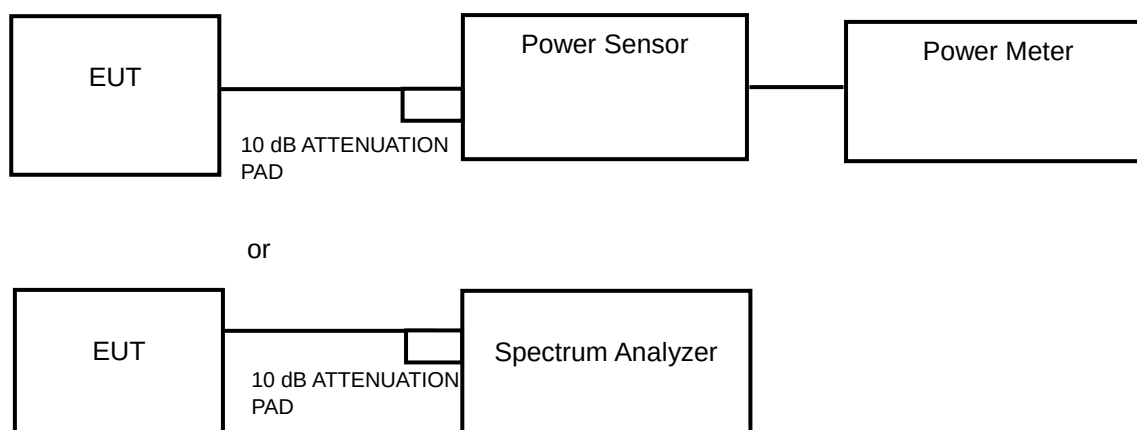
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

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

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

4.2.2 Test Setup

<Power Output Measurement>



4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.2.4 Test Procedure

Average Power Measurement

<802.11a, 802.11n (HT20), 802.11n (HT40)>

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

<802.11ac (VHT80)>

Method SA-1 is used to perform output power measurement, trigger and gating function of spectrum analyzer is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

4.2.5 Deviation from Test Standard

No deviation.

4.2.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.2.7 Test Result

Power Output:

802.11a

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	14.98	14.88	62.24	17.94	24	Pass
44	5220	14.96	14.92	62.38	17.95	24	Pass
48	5240	14.94	14.90	62.09	17.93	24	Pass
52	5260	16.91	16.73	96.19	19.83	24	Pass
60	5300	16.90	16.78	96.62	19.85	24	Pass
64	5320	15.29	15.02	65.58	18.17	24	Pass
100	5500	15.08	15.01	63.91	18.06	24	Pass
116	5580	16.89	16.58	94.36	19.75	24	Pass
140	5700	14.45	14.71	57.44	17.59	24	Pass
144	5720	15.01	15.42	66.53	18.23	24	Pass
149	5745	15.91	15.71	76.233	18.82	30	Pass
157	5785	16.81	16.53	92.951	19.68	30	Pass
165	5825	16.87	16.40	92.292	19.65	30	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	14.97	14.81	61.67	17.90	24	Pass
44	5220	14.99	14.92	62.60	17.97	24	Pass
48	5240	14.98	14.90	62.38	17.95	24	Pass
52	5260	16.94	16.71	96.31	19.84	24	Pass
60	5300	16.98	16.69	96.55	19.85	24	Pass
64	5320	14.93	14.53	59.50	17.74	24	Pass
100	5500	15.21	15.41	67.94	18.32	24	Pass
116	5580	16.73	16.91	96.19	19.83	24	Pass
140	5700	14.11	14.12	51.59	17.13	24	Pass
144	5720	15.12	15.04	64.42	18.09	15.12	15.04
149	5745	15.43	15.47	70.151	18.46	30	Pass
157	5785	16.70	16.60	92.482	19.66	30	Pass
165	5825	16.62	16.53	90.898	19.59	30	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	14.11	13.15	46.42	16.67	24	Pass
46	5230	15.24	14.67	62.73	17.97	24	Pass
54	5270	16.82	16.58	93.58	19.71	24	Pass
62	5310	15.44	14.51	57.02	18.01	24	Pass
102	5510	11.02	11.14	25.65	14.09	24	Pass
110	5550	16.73	16.98	96.99	19.87	24	Pass
134	5670	15.62	15.67	73.37	18.66	24	Pass
142	5710	16.39	15.94	82.82	19.18	24	Pass
151	5755	13.82	14.00	49.218	16.92	30	Pass
159	5795	16.65	16.70	93.012	19.69	30	Pass

802.11ac (VHT80)

Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	12.28	12.01	32.79	15.16	24	Pass
58	5290	12.01	12.06	31.95	15.05	24	Pass
106	5530	12.58	12.51	35.94	15.56	24	Pass
122	5610	16.45	16.10	84.90	19.29	24	Pass
138	5690	15.76	15.87	76.31	18.83	24	Pass
155	5775	13.54	13.89	47.085	16.73	30	Pass

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information on 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 accredited and approved according to ISO/IEC 17025.

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

Linko 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

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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