

FCC Test Report

Report No.: RF180227C27-3

FCC ID: QYL8265NGK

Test Model: K120

Received Date: Mar. 02, 2018

Test Date: Apr. 16, 2018 ~ May 14, 2018

Issued Date: May 15, 2018

Applicant: Getac Technology Corporation.

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

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**FCC Registration /
Designation Number:** 427177 / TW0011



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Release Control Record

Issue No.	Description	Date Issued
RF180227C27-3	Original Release	May 15, 2018

1 Certificate of Conformity

Product: Tablet

Brand: Getac

Test Model: K120

Sample Status: Identical Prototype

Applicant: Getac Technology Corporation.

Test Date: Apr. 16, 2018 ~ May 14, 2018

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 RF characteristics under the conditions specified in this report.

Prepared by : Evonne Liu, **Date:** May 15, 2018
Evonne Liu / Specialist

Approved by : Dylan Chiou, **Date:** May 15, 2018
Dylan Chiou / Project Engineer

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	Pass	Meet the requirement of limit. Minimum passing margin is -15.69 dB at 0.15811 MHz.
15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -4.75 dB at 5458.64 MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	N/A	Refer to Note
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: This report is a partial report, only test item of Conducted Emission, Conducted power and Radiated Emissions tests were performed for this report. Other testing data please refer to Intel report no.: 160321-01.TR01 for module (Brand: Intel, Model: 8265NGW).

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	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
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	Tablet
Brand	Getac
Test Model	K120
Status of EUT	Identical Prototype
Power Supply Rating	11.1 Vdc (Battery) 19 Vdc (Adapter)
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 150.0 Mbps 802.11ac: up to 433.3 Mbps
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)
Antenna Type	PIFA antenna with 1.19 dBi gain (5180 ~ 5240 MHz) PIFA antenna with 3.08 dBi gain (5260 ~ 5320 MHz) PIFA antenna with 2.78 dBi gain (5500 ~ 5720 MHz) PIFA antenna with 2.45 dBi gain (5745 ~ 5825 MHz)
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below

Note:

1. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

Modulation Mode	Tx Function
802.11a	1TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX
802.11ac (VHT80)	2TX

2. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	Chicony	A12-065N2A	I/P: 100-240 Vac, 50-60 Hz, 1.7 A O/P: 19 Vdc, 3.42 A 1.75 m shielded cable with 1 core
Battery 1	Getac	BP3S1P2100S-01	11.1 Vdc, 2100 mAh
Battery 2	Getac	BP4S1P3450P-01	14.4 Vdc, 3450 mAh
WWAN Module	Sierra	EM7455	--
WiFi & BT Module	Intel	8265NGK	--

* According to the pretest result, the Battery 1 had worse value. Therefore, Battery 1 was used for the final test.

3. 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 ~ 5700 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	
-	√	√	√	-

Where **RE $\geq$ 1G**: Radiated Emission above 1 GHz **RE $<$ 1G**: Radiated Emission below 1 GHz
PLC: Power Line Conducted Emission

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.

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	6.5
-		802.11n (HT40)	38 to 46	38, 46	OFDM	BPSK	13.5
-		802.11ac (VHT80)	42	42	OFDM	BPSK	29.3
-	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	6.5
-		802.11n (HT40)	54 to 62	54, 62	OFDM	BPSK	13.5
-		802.11ac (VHT80)	58	58	OFDM	BPSK	29.3
-	5500-5720	802.11a	100 to 144	100, 116, 140, 144	OFDM	BPSK	6.0
-		802.11n (HT20)	100 to 144	100, 116, 140, 144	OFDM	BPSK	6.5
-		802.11n (HT40)	102 to 142	102, 110, 134, 142	OFDM	BPSK	13.5
-		802.11ac (VHT80)	106 to 138	106, 122, 138	OFDM	BPSK	29.3
-	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	6.5
-		802.11n (HT40)	151 to 159	151, 159	OFDM	BPSK	13.5
-		802.11ac (VHT80)	155	155	OFDM	BPSK	29.3

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)
	5500-5720	802.11n (HT40)	102 to 142	110	OFDM	BPSK	13.5

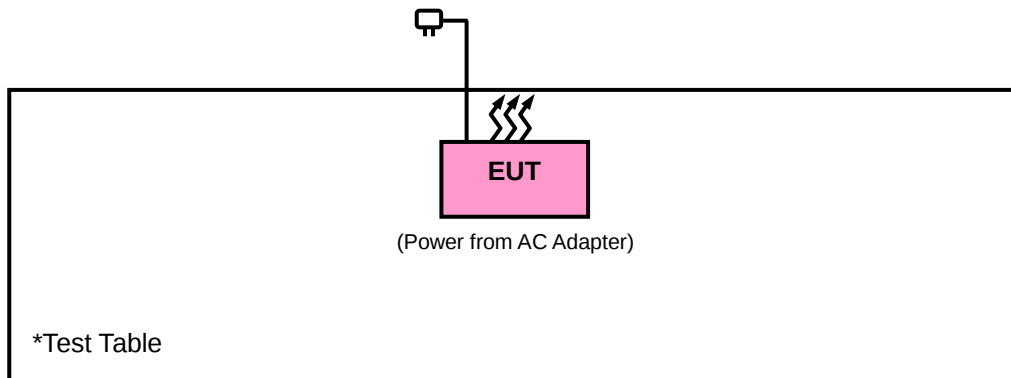
Test Condition:

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

3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

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 v02r01

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:

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

4.1.2 Limits of Unwanted Emission Out of the Restricted Bands

Applicable To		Limit	
789033 D02 General UNII Test Procedures New Rules v02r01		Field Strength at 3 m	
		PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
5150~5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK:-27 (dBm/MHz) ^{*1} PK:10 (dBm/MHz) ^{*2} PK:15.6 (dBm/MHz) ^{*3} PK:27 (dBm/MHz) ^{*4}	PK: 68.2 (dBμV/m) ^{*1} PK:105.2 (dBμV/m) ^{*2} PK: 110.8 (dBμV/m) ^{*3} PK:122.2 (dBμV/m) ^{*4}
	15.407(b)(4)(ii)	Emission limits in section 15.247(d)	

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

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

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

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

Note:

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

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

4.1.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent Technologies	N9038A	MY52260177	Jul. 05, 2017	Jul. 04, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Jan. 11, 2018	Jan. 10, 2019
Double Ridge Guide Horn Antenna EMCO	3115	5619	Nov. 30, 2017	Nov. 29, 2018
BILOG Antenna SCHWARZBECK	VULB 9168	9168-153	Dec. 06, 2017	Dec. 05, 2018
Loop Antenna	EM-6879	269	Aug. 11, 2017	Aug. 10, 2018
Preamplifier Agilent	310N	187226	Jun. 23, 2017	Jun. 22, 2018
Preamplifier Agilent	83017A	MY39501357	Jun. 23, 2017	Jun. 22, 2018
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(R FC-SMS-100-SM S-120+RFC-SMS -100-SMS-400)	Jun. 23, 2017	Jun. 22, 2018
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(R FC-SMS-100-SM S-24)	Jun. 23, 2017	Jun. 22, 2018
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
HORN Antenna Schwarzbeck	BBHA 9170	9170-480	Dec. 01, 2017	Nov. 30, 2018
Preamplifier Agilent	EMC 184045	980116	Oct. 20, 2017	Oct. 19, 2018

- 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 IC Site Registration No. is IC7450I-1.

4.1.4 Test Procedures

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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. Both Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

For Radiated emission above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 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:

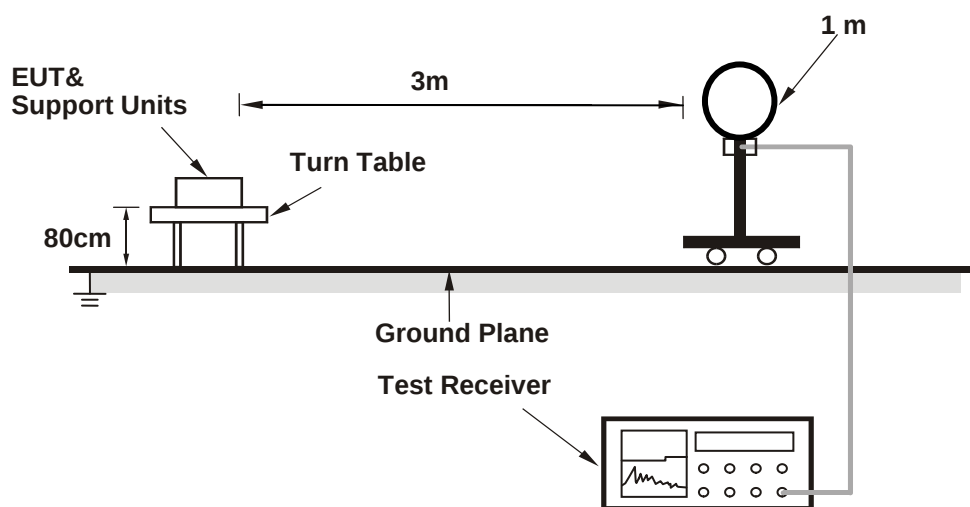
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.5 Deviation from Test Standard

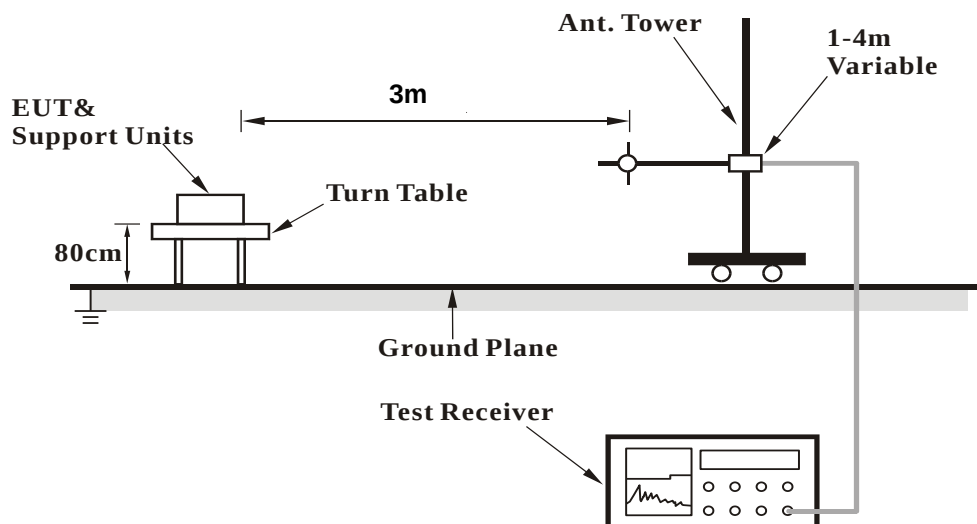
No deviation.

4.1.6 Test Set Up

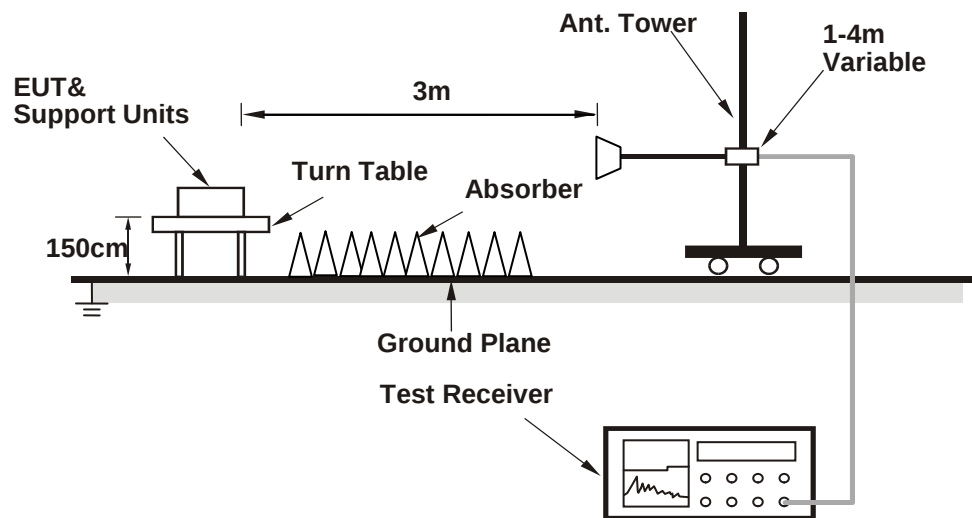
<Radiated Emission below 30 MHz>



<Radiated Emission 30 MHz to 1 GHz>



<Radiated Emission 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	Karl Lee

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
5149.25	44.16	35.91	54	-9.84	34.12	8.13	34	126	203	Average
5149.25	54.56	46.31	74	-19.44	34.12	8.13	34	126	203	Peak
5180	91.91	83.6			34.15	8.16	34	126	203	Average
5180	99.49	91.18			34.15	8.16	34	126	203	Peak
*10360	55.54	41.24	68.2	-12.66	37.12	12.3	35.12	125	192	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
5149.4	45.14	36.89	54	-8.86	34.12	8.13	34	142	262	Average
5149.4	55.08	46.83	74	-18.92	34.12	8.13	34	142	262	Peak
5180	97.26	88.95			34.15	8.16	34	142	262	Average
5180	104.79	96.48			34.15	8.16	34	142	262	Peak
*10360	56.14	41.84	68.2	-12.06	37.12	12.3	35.12	115	284	Peak

Remarks:

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

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	Karl Lee

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
5146.85	43.59	35.34	54	-10.41	34.12	8.13	34	126	203	Average
5146.85	53.82	45.57	74	-20.18	34.12	8.13	34	126	203	Peak
5220	95.43	87.04			34.17	8.22	34	126	203	Average
5220	102.31	93.92			34.17	8.22	34	126	203	Peak
5457.58	42.79	33.97	54	-11.21	34.36	8.51	34.05	126	203	Average
5457.58	53.44	44.62	74	-20.56	34.36	8.51	34.05	126	203	Peak
*10440	56.31	41.85	68.2	-11.89	37.16	12.47	35.17	182	243	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
5138.45	44.27	36.02	54	-9.73	34.11	8.13	33.99	142	262	Average
5138.45	54.94	46.69	74	-19.06	34.11	8.13	33.99	142	262	Peak
5220	99.69	91.3			34.17	8.22	34	142	262	Average
5220	107.35	98.96			34.17	8.22	34	142	262	Peak
5378.38	43.08	34.4	54	-10.92	34.31	8.41	34.04	142	262	Average
5378.38	53.88	45.2	74	-20.12	34.31	8.41	34.04	142	262	Peak
*10440	56.83	42.37	68.2	-11.37	37.16	12.47	35.17	128	147	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5220 MHz: Fundamental Frequency
- *: Out of Restricted Band

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	Karl Lee

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
5240	95.07	86.63			34.19	8.26	34.01	126	203	Average
5240	102.72	94.28			34.19	8.26	34.01	126	203	Peak
5396.53	42.8	34.08	54	-11.2	34.32	8.44	34.04	126	203	Average
5396.53	53.98	45.26	74	-20.02	34.32	8.44	34.04	126	203	Peak
*10480	55.64	41.13	68.2	-12.56	37.19	12.53	35.21	165	131	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
5240	100.57	92.13			34.19	8.26	34.01	142	262	Average
5240	107.81	99.37			34.19	8.26	34.01	142	262	Peak
5354.95	42.83	34.2	54	-11.17	34.28	8.38	34.03	142	262	Average
5354.95	53.85	45.22	74	-20.15	34.28	8.38	34.03	142	262	Peak
*10480	57.15	42.64	68.2	-11.05	37.19	12.53	35.21	152	138	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5240 MHz: Fundamental Frequency
- *: Out of Restricted Band

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	Karl Lee

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
5099.3	42.6	34.44	54	-11.4	34.08	8.07	33.99	332	56	Average
5099.3	53.1	44.94	74	-20.9	34.08	8.07	33.99	332	56	Peak
5260	94.48	86.02			34.21	8.26	34.01	332	56	Average
5260	101.87	93.41			34.21	8.26	34.01	332	56	Peak
*10520	56.17	41.58	68.2	-12.03	37.21	12.61	35.23	146	230	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
5101.25	43.42	35.26	54	-10.58	34.08	8.07	33.99	138	266	Average
5101.25	53.97	45.81	74	-20.03	34.08	8.07	33.99	138	266	Peak
5260	99.76	91.3			34.21	8.26	34.01	138	266	Average
5260	106.99	98.53			34.21	8.26	34.01	138	266	Peak
*10520	55.88	41.29	68.2	-12.32	37.21	12.61	35.23	134	160	Peak

Remarks:

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

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	Karl Lee

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
5144.15	42.85	34.6	54	-11.15	34.12	8.13	34	332	52	Average
5144.15	53.51	45.26	74	-20.49	34.12	8.13	34	332	52	Peak
5300	95.04	86.5			34.24	8.32	34.02	332	52	Average
5300	102.26	93.72			34.24	8.32	34.02	332	52	Peak
5387.4	42.77	34.09	54	-11.23	34.31	8.41	34.04	332	52	Average
5387.4	53.51	44.83	74	-20.49	34.31	8.41	34.04	332	52	Peak
10600	46.02	31.34	54	-7.98	37.28	12.67	35.27	185	249	Average
10600	56.41	41.73	74	-17.59	37.28	12.67	35.27	185	249	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
5134.85	43.38	35.13	54	-10.62	34.11	8.13	33.99	138	266	Average
5134.85	54.05	45.8	74	-19.95	34.11	8.13	33.99	138	266	Peak
5300	99.87	91.33			34.24	8.32	34.02	138	266	Average
5300	107.34	98.8			34.24	8.32	34.02	138	266	Peak
5350.99	44.12	35.49	54	-9.88	34.28	8.38	34.03	138	266	Average
5350.99	54.81	46.18	74	-19.19	34.28	8.38	34.03	138	266	Peak
10600	45.69	31.01	54	-8.31	37.28	12.67	35.27	135	226	Average
10600	55.86	41.18	74	-18.14	37.28	12.67	35.27	135	226	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5300 MHz: Fundamental Frequency
- *: Out of Restricted Band

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	Karl Lee

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
5320	91.78	83.2			34.25	8.35	34.02	332	52	Average
5320	99.37	90.79			34.25	8.35	34.02	332	52	Peak
5350.55	43.82	35.19	54	-10.18	34.28	8.38	34.03	332	52	Average
5350.55	54.32	45.69	74	-19.68	34.28	8.38	34.03	332	52	Peak
10640	46.83	32.1	54	-7.17	37.31	12.71	35.29	166	287	Average
10640	57.51	42.78	74	-16.49	37.31	12.71	35.29	166	287	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
5320	96.98	88.4			34.25	8.35	34.02	138	266	Average
5320	104.42	95.84			34.25	8.35	34.02	138	266	Peak
5350.77	44.86	36.23	54	-9.14	34.28	8.38	34.03	138	266	Average
5350.77	55.17	46.54	74	-18.83	34.28	8.38	34.03	138	266	Peak
10640	46.53	31.8	54	-7.47	37.31	12.71	35.29	133	156	Average
10640	56.7	41.97	74	-17.3	37.31	12.71	35.29	133	156	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5320 MHz: Fundamental Frequency
- *: Out of Restricted Band

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	Karl Lee

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
5459.6	43.19	34.37	54	-10.81	34.36	8.51	34.05	100	138	Average
5459.6	54.34	45.52	74	-19.66	34.36	8.51	34.05	100	138	Peak
*5470.96	55.09	46.23	68.2	-13.11	34.37	8.54	34.05	100	138	Peak
5500	92.72	83.8			34.4	8.57	34.05	100	138	Average
5500	99.89	90.97			34.4	8.57	34.05	100	138	Peak
11000	45.99	30.91	54	-8.01	37.6	12.96	35.48	131	337	Average
11000	56.13	41.05	74	-17.87	37.6	12.96	35.48	131	337	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
5458.96	43.29	34.47	54	-10.71	34.36	8.51	34.05	134	268	Average
5458.96	53.35	44.53	74	-20.65	34.36	8.51	34.05	134	268	Peak
*5469.84	53.22	44.39	68.2	-14.98	34.37	8.51	34.05	134	268	Peak
5500	97.04	88.12			34.4	8.57	34.05	134	268	Average
5500	104.25	95.33			34.4	8.57	34.05	134	268	Peak
11000	46.71	31.63	54	-7.29	37.6	12.96	35.48	149	208	Average
11000	57	41.92	74	-17	37.6	12.96	35.48	149	208	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5500 MHz: Fundamental Frequency
- *: 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	Karl Lee

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
5427.44	43.01	34.24	54	-10.99	34.33	8.48	34.04	100	138	Average
5427.44	54.07	45.3	74	-19.93	34.33	8.48	34.04	100	138	Peak
*5469.68	52.83	44	68.2	-15.37	34.37	8.51	34.05	100	138	Peak
5580	94.03	85.04			34.47	8.6	34.08	100	138	Average
5580	101.23	92.24			34.47	8.6	34.08	100	138	Peak
*5725.48	53.07	43.91	68.2	-15.13	34.62	8.65	34.11	100	138	Peak
11600	46.31	30.88	54	-7.69	38.04	12.76	35.37	135	228	Average
11600	56.44	41.01	74	-17.56	38.04	12.76	35.37	135	228	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
5440.88	42.89	34.1	54	-11.11	34.35	8.48	34.04	134	268	Average
5440.88	54.81	46.02	74	-19.19	34.35	8.48	34.04	134	268	Peak
*5469.84	52.17	43.34	68.2	-16.03	34.37	8.51	34.05	134	268	Peak
5580	98.8	89.81			34.47	8.6	34.08	134	268	Average
5580	106.29	97.3			34.47	8.6	34.08	134	268	Peak
*5726.04	52.26	43.1	68.2	-15.94	34.62	8.65	34.11	134	268	Peak
11600	46.09	30.66	54	-7.91	38.04	12.76	35.37	175	19	Average
11600	56.28	40.85	74	-17.72	38.04	12.76	35.37	175	19	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5580 MHz: Fundamental Frequency
- *: 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	Karl Lee

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
5700	91.79	82.66			34.59	8.64	34.1	102	278	Average
5700	99.6	90.47			34.59	8.64	34.1	102	278	Peak
*5725.72	57.44	48.28	68.2	-10.76	34.62	8.65	34.11	102	278	Peak
11400	46.32	31.22	54	-7.68	37.84	12.67	35.41	127	323	Average
11400	56.52	41.42	74	-17.48	37.84	12.67	35.41	127	323	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
5700	97.15	88.02			34.59	8.64	34.1	126	294	Average
5700	104.45	95.32			34.59	8.64	34.1	126	294	Peak
*5723.96	60.04	50.88	68.2	-8.16	34.62	8.65	34.11	126	294	Peak
11400	46.04	30.94	54	-7.96	37.84	12.67	35.41	126	263	Average
11400	56.36	41.26	74	-17.64	37.84	12.67	35.41	126	263	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5700 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 144	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	Karl Lee

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
5459.76	42.71	33.89	54	-11.29	34.36	8.51	34.05	102	278	Average
5459.76	53.05	44.23	74	-20.95	34.36	8.51	34.05	102	278	Peak
*5470.48	51.23	42.4	68.2	-16.97	34.37	8.51	34.05	102	278	Peak
5720	93.17	84.01			34.62	8.65	34.11	102	278	Average
5720	100.51	91.35			34.62	8.65	34.11	102	278	Peak
*5860	57.13	47.81	78.2	-21.07	34.76	8.7	34.14	102	278	Peak
*5862	56.41	47.08	68.2	-11.79	34.76	8.71	34.14	102	278	Peak
11440	47.05	31.94	54	-6.95	37.86	12.65	35.4	156	217	Average
11440	57.28	42.17	74	-16.72	37.86	12.65	35.4	156	217	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
5455.44	42.6	33.78	54	-11.4	34.36	8.51	34.05	126	294	Average
5455.44	53.22	44.4	74	-20.78	34.36	8.51	34.05	126	294	Peak
*5470.16	52.29	43.46	68.2	-15.91	34.37	8.51	34.05	126	294	Peak
5720	97.36	88.2			34.62	8.65	34.11	126	294	Average
5720	104.84	95.68			34.62	8.65	34.11	126	294	Peak
*5856	57.78	48.46	78.2	-20.42	34.76	8.7	34.14	126	294	Peak
*5870	57.42	48.09	68.2	-10.78	34.76	8.71	34.14	126	294	Peak
11440	46.93	31.82	54	-7.07	37.86	12.65	35.4	125	311	Average
11440	57.6	42.49	74	-16.4	37.86	12.65	35.4	125	311	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5720 MHz: Fundamental Frequency
- *: 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	Karl Lee

<Spurious Emission>

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
5745	96.25	87.06			34.64	8.66	34.11	100	267	Average
5745	103.97	94.78			34.64	8.66	34.11	100	267	Peak
11490	46.73	31.61	54	-7.27	37.89	12.62	35.39	135	260	Average
11490	56.93	41.81	74	-17.07	37.89	12.62	35.39	135	260	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
5745	97.87	88.68			34.64	8.66	34.11	210	317	Average
5745	105.15	95.96			34.64	8.66	34.11	210	317	Peak
11490	46.44	31.32	54	-7.56	37.89	12.62	35.39	127	145	Average
11490	56.55	41.43	74	-17.45	37.89	12.62	35.39	127	145	Peak

<Out of Band Emission (OOBE)>

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
*5640.175	53.82	44.75	68.2	-14.38	34.54	8.62	34.09	100	267	Peak
5651.725	51.25	42.16	69.48	-18.23	34.56	8.62	34.09	100	267	Peak
5923.15	50.25	40.85	69.57	-19.32	34.83	8.73	34.16	100	267	Peak
*5939.95	53.99	44.56	68.2	-14.21	34.85	8.74	34.16	100	267	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
*5642.8	53.95	44.88	68.2	-14.25	34.54	8.62	34.09	210	317	Peak
5652.25	51.2	42.11	69.86	-18.66	34.56	8.62	34.09	210	317	Peak
5923.675	51.04	41.64	69.18	-18.14	34.83	8.73	34.16	210	317	Peak
*6022.375	54.56	45.05	68.2	-13.64	34.92	8.77	34.18	210	317	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	Karl Lee

<Spurious Emission>

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
5785	96.33	87.1			34.68	8.68	34.13	100	267	Average
5785	103.7	94.47			34.68	8.68	34.13	100	267	Peak
11570	46.89	31.58	54	-7.11	38	12.68	35.37	156	288	Average
11570	57.14	41.83	74	-16.86	38	12.68	35.37	156	288	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
5785	97.67	88.44			34.68	8.68	34.13	210	317	Average
5785	105.25	96.02			34.68	8.68	34.13	210	317	Peak
11570	47.23	31.92	54	-6.77	38	12.68	35.37	108	56	Average
11570	57.64	42.33	74	-16.36	38	12.68	35.37	108	56	Peak

<Out of Band Emission (OOBE)>

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
*5617.075	53.09	44.04	68.2	-15.11	34.52	8.61	34.08	100	267	Peak
5652.25	50.03	40.94	69.86	-19.83	34.56	8.62	34.09	100	267	Peak
5923.15	49.65	40.25	69.57	-19.92	34.83	8.73	34.16	100	267	Peak
*6011.35	53.07	43.57	68.2	-15.13	34.92	8.76	34.18	100	267	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
*5569.3	53.55	44.56	68.2	-14.65	34.47	8.59	34.07	210	317	Peak
5651.725	50.03	40.94	69.48	-19.45	34.56	8.62	34.09	210	317	Peak
5923.675	50.44	41.04	69.18	-18.74	34.83	8.73	34.16	210	317	Peak
*5952.55	53.53	44.1	68.2	-14.67	34.85	8.74	34.16	210	317	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	Karl Lee

<Spurious Emission>

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
5825	96.3	87.01			34.73	8.69	34.13	100	267	Average
5825	103.66	94.37			34.73	8.69	34.13	100	267	Peak
11650	46.12	30.59	54	-7.88	38.09	12.8	35.36	149	38	Average
11650	55.95	40.42	74	-18.05	38.09	12.8	35.36	149	38	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
5825	98.23	88.94			34.73	8.69	34.13	210	317	Average
5825	105.54	96.25			34.73	8.69	34.13	210	317	Peak
11650	46.08	30.55	54	-7.92	38.09	12.8	35.36	114	187	Average
11650	55.89	40.36	74	-18.11	38.09	12.8	35.36	114	187	Peak

<Out of Band Emission (OOBE)>

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
*5594.5	53.47	44.46	68.2	-14.73	34.49	8.6	34.08	100	267	Peak
5651.725	50.82	41.73	69.48	-18.66	34.56	8.62	34.09	100	267	Peak
5923.675	50.44	41.04	69.18	-18.74	34.83	8.73	34.16	100	267	Peak
*5970.4	53.92	44.47	68.2	-14.28	34.87	8.75	34.17	100	267	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
*5598.7	53.41	44.39	68.2	-14.79	34.5	8.6	34.08	210	317	Peak
5651.725	50.82	41.73	69.48	-18.66	34.56	8.62	34.09	210	317	Peak
5923.675	50.79	41.39	69.18	-18.39	34.83	8.73	34.16	210	317	Peak
*5974.6	54.13	44.67	68.2	-14.07	34.88	8.75	34.17	210	317	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5825 MHz: Fundamental Frequency
- *: 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	Karl Lee

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
5146.25	43.36	35.11	54	-10.64	34.12	8.13	34	127	360	Average
5146.25	53.74	45.49	74	-20.26	34.12	8.13	34	127	360	Peak
5180	94.33	86.02			34.15	8.16	34	127	360	Average
5180	101.01	92.7			34.15	8.16	34	127	360	Peak
*10360	55.6	41.3	68.2	-12.6	37.12	12.3	35.12	132	65	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
5149.85	44.79	36.54	54	-9.21	34.12	8.13	34	123	149	Average
5149.85	54.65	46.4	74	-19.35	34.12	8.13	34	123	149	Peak
5180	97.22	88.91			34.15	8.16	34	123	172	Average
5180	104.37	96.06			34.15	8.16	34	123	172	Peak
*10360	56.12	41.82	68.2	-12.08	37.12	12.3	35.12	185	144	Peak

Remarks:

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

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	Karl Lee

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
5133.8	42.9	34.65	54	-11.1	34.11	8.13	33.99	127	360	Average
5133.8	53.2	44.95	74	-20.8	34.11	8.13	33.99	127	360	Peak
5220	96.68	88.29			34.17	8.22	34	127	360	Average
5220	104.03	95.64			34.17	8.22	34	127	360	Peak
5383.77	43.1	34.42	54	-10.9	34.31	8.41	34.04	127	360	Average
5383.77	54.64	45.96	74	-19.36	34.31	8.41	34.04	127	360	Peak
*10440	55.86	41.4	68.2	-12.34	37.16	12.47	35.17	175	143	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
5142.35	43.78	35.52	54	-10.22	34.12	8.13	33.99	123	183	Peak
5142.35	53.6	45.34	74	-20.4	34.12	8.13	33.99	123	183	Peak
5220	100.6	92.21			34.17	8.22	34	123	183	Average
5220	107.64	99.25			34.17	8.22	34	123	183	Peak
5456.15	42.96	34.14	54	-11.04	34.36	8.51	34.05	123	183	Average
5456.15	53.56	44.74	74	-20.44	34.36	8.51	34.05	123	183	Peak
*10440	55.07	40.61	68.2	-13.13	37.16	12.47	35.17	186	222	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5220 MHz: Fundamental Frequency
- *: Out of Restricted Band

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	Karl Lee

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
5240	95.7	87.26			34.19	8.26	34.01	127	354	Average
5240	103.48	95.04			34.19	8.26	34.01	127	354	Peak
5378.38	42.92	34.24	54	-11.08	34.31	8.41	34.04	127	354	Average
5378.38	54.16	45.48	74	-19.84	34.31	8.41	34.04	127	354	Peak
*10480	55.7	41.19	68.2	-12.5	37.19	12.53	35.21	109	177	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
5240	100.06	91.62			34.19	8.26	34.01	169	250	Average
5240	107.14	98.7			34.19	8.26	34.01	169	250	Peak
5459.34	42.68	33.86	54	-11.32	34.36	8.51	34.05	169	250	Average
5459.34	54.35	45.53	74	-19.65	34.36	8.51	34.05	169	250	Peak
*10480	56.07	41.56	68.2	-12.13	37.19	12.53	35.21	133	162	Peak

Remarks:

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

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	Karl Lee

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
5107.85	42.77	34.57	54	-11.23	34.09	8.1	33.99	121	76	Average
5107.85	54.09	45.89	74	-19.91	34.09	8.1	33.99	121	76	Peak
5260	98.59	90.13			34.21	8.26	34.01	121	76	Average
5260	105.59	97.13			34.21	8.26	34.01	121	76	Peak
*10520	56.7	42.11	68.2	-11.5	37.21	12.61	35.23	185	164	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
5098.1	43.12	34.96	54	-10.88	34.08	8.07	33.99	100	177	Average
5098.1	53.52	45.36	74	-20.48	34.08	8.07	33.99	100	177	Peak
5260	100.47	92.01			34.21	8.26	34.01	100	177	Average
5260	107.33	98.87			34.21	8.26	34.01	100	177	Peak
*10520	56.36	41.77	68.2	-11.84	37.21	12.61	35.23	132	256	Peak

Remarks:

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

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	Karl Lee

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
5136.2	42.89	34.64	54	-11.11	34.11	8.13	33.99	121	76	Average
5136.2	54.15	45.9	74	-19.85	34.11	8.13	33.99	121	76	Peak
5300	98.47	89.93			34.24	8.32	34.02	121	76	Average
5300	105.19	96.65			34.24	8.32	34.02	121	76	Peak
5350.55	44.98	36.35	54	-9.02	34.28	8.38	34.03	121	76	Average
5350.55	54.86	46.23	74	-19.14	34.28	8.38	34.03	121	76	Peak
10600	46.03	31.35	54	-7.97	37.28	12.67	35.27	143	117	Average
10600	56.1	41.42	74	-17.9	37.28	12.67	35.27	143	117	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
5142.05	43.24	34.98	54	-10.76	34.12	8.13	33.99	100	177	Average
5142.05	53.52	45.26	74	-20.48	34.12	8.13	33.99	100	177	Peak
5300	100.25	91.71			34.24	8.32	34.02	100	177	Average
5300	107.09	98.55			34.24	8.32	34.02	100	177	Peak
5357.48	43.35	34.72	54	-10.65	34.28	8.38	34.03	100	177	Average
5357.48	53.44	44.81	74	-20.56	34.28	8.38	34.03	100	177	Peak
10600	46.15	31.47	54	-7.85	37.28	12.67	35.27	152	243	Average
10600	55.76	41.08	74	-18.24	37.28	12.67	35.27	152	243	Peak

Remarks:

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

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	Karl Lee

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
5320	94.63	86.05			34.25	8.35	34.02	121	76	Average
5320	101.6	93.02			34.25	8.35	34.02	121	76	Peak
5350.11	44.47	35.84	54	-9.53	34.28	8.38	34.03	121	76	Average
5350.11	54.56	45.93	74	-19.44	34.28	8.38	34.03	121	76	Peak
10640	46.22	31.49	54	-7.78	37.31	12.71	35.29	111	147	Average
10640	56.39	41.66	74	-17.61	37.31	12.71	35.29	111	147	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
5320	96.51	87.93			34.25	8.35	34.02	100	170	Average
5320	103.12	94.54			34.25	8.35	34.02	100	170	Peak
5351.43	43.46	34.83	54	-10.54	34.28	8.38	34.03	100	170	Average
5351.43	53.78	45.15	74	-20.22	34.28	8.38	34.03	100	170	Peak
10640	46.83	32.1	54	-7.17	37.31	12.71	35.29	168	304	Average
10640	57.04	42.31	74	-16.96	37.31	12.71	35.29	168	304	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5320 MHz: Fundamental Frequency
- *: Out of Restricted Band

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	Karl Lee

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
5458.32	43.84	35.02	54	-10.16	34.36	8.51	34.05	200	291	Average
5458.32	53.74	44.92	74	-20.26	34.36	8.51	34.05	200	291	Peak
*5470.96	54.46	45.6	68.2	-13.74	34.37	8.54	34.05	200	291	Peak
5500	96.35	87.43			34.4	8.57	34.05	200	291	Average
5500	103.13	94.21			34.4	8.57	34.05	200	291	Peak
11000	46.38	31.3	54	-7.62	37.6	12.96	35.48	149	216	Average
11000	56.58	41.5	74	-17.42	37.6	12.96	35.48	149	216	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	43.99	35.17	54	-10.01	34.36	8.51	34.05	200	119	Average
5454	55.26	46.44	74	-18.74	34.36	8.51	34.05	200	119	Peak
*5468.56	54.32	45.49	68.2	-13.88	34.37	8.51	34.05	200	119	Peak
5500	97.49	88.57			34.4	8.57	34.05	200	119	Average
5500	104.33	95.41			34.4	8.57	34.05	200	119	Peak
11000	46.61	31.53	54	-7.39	37.6	12.96	35.48	185	107	Average
11000	56.77	41.69	74	-17.23	37.6	12.96	35.48	185	107	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. *: 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	Karl Lee

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
5416.72	43.94	35.21	54	-10.06	34.33	8.44	34.04	200	291	Average
5416.72	55.03	46.3	74	-18.97	34.33	8.44	34.04	200	291	Peak
*5470.32	53.44	44.61	68.2	-14.76	34.37	8.51	34.05	200	291	Peak
5580	99.63	90.64			34.47	8.6	34.08	200	291	Average
5580	106.82	97.83			34.47	8.6	34.08	200	291	Peak
*5724.12	53.71	44.55	68.2	-14.49	34.62	8.65	34.11	200	291	Peak
11600	46.27	30.84	54	-7.73	38.04	12.76	35.37	169	312	Average
11600	56.35	40.92	74	-17.65	38.04	12.76	35.37	169	312	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
5421.36	43.83	35.06	54	-10.17	34.33	8.48	34.04	200	119	Average
5421.36	53.9	45.13	74	-20.1	34.33	8.48	34.04	200	119	Peak
*5469.68	53.65	44.82	68.2	-14.55	34.37	8.51	34.05	200	119	Peak
5580	100.14	91.15			34.47	8.6	34.08	200	119	Average
5580	107.54	98.55			34.47	8.6	34.08	200	119	Peak
*5725.96	53.1	43.94	68.2	-15.1	34.62	8.65	34.11	200	119	Peak
11600	46.11	30.68	54	-7.89	38.04	12.76	35.37	148	157	Average
11600	55.97	40.54	74	-18.03	38.04	12.76	35.37	148	157	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5580 MHz: Fundamental Frequency
- *: 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	Karl Lee

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
5700	94.52	85.39			34.59	8.64	34.1	200	291	Average
5700	101.47	92.34			34.59	8.64	34.1	200	291	Peak
*5725.32	54.03	44.87	68.2	-14.17	34.62	8.65	34.11	200	291	Peak
11400	46.85	31.75	54	-7.15	37.84	12.67	35.41	128	246	Average
11400	57.08	41.98	74	-16.92	37.84	12.67	35.41	128	246	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
5700	95.2	86.07			34.59	8.64	34.1	200	119	Average
5700	102.74	93.61			34.59	8.64	34.1	200	119	Peak
*5724.2	54.97	45.81	68.2	-13.23	34.62	8.65	34.11	200	119	Peak
11400	47.24	32.14	54	-6.76	37.84	12.67	35.41	148	120	Average
11400	57.47	42.37	74	-16.53	37.84	12.67	35.41	148	120	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5700 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 144	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	Karl Lee

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
5401.36	42.99	34.27	54	-11.01	34.32	8.44	34.04	200	291	Average
5401.36	53.91	45.19	74	-20.09	34.32	8.44	34.04	200	291	Peak
*5469.2	53.22	44.39	68.2	-14.98	34.37	8.51	34.05	200	291	Peak
5720	98.3	89.14			34.62	8.65	34.11	200	291	Average
5720	105.22	96.06			34.62	8.65	34.11	200	291	Peak
*5854	57.46	48.14	78.2	-20.74	34.76	8.7	34.14	200	291	Peak
*5862	56.72	47.39	68.2	-11.48	34.76	8.71	34.14	200	291	Peak
11440	46.79	31.68	54	-7.21	37.86	12.65	35.4	150	42	Average
11440	57.09	41.98	74	-16.91	37.86	12.65	35.4	150	42	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
5397.52	43.24	34.52	54	-10.76	34.32	8.44	34.04	200	119	Average
5397.52	53.39	44.67	74	-20.61	34.32	8.44	34.04	200	119	Peak
*5469.68	52.38	43.55	68.2	-15.82	34.37	8.51	34.05	200	119	Peak
5720	98.47	89.31			34.62	8.65	34.11	200	119	Average
5720	106.23	97.07			34.62	8.65	34.11	200	119	Peak
*5860	57.89	48.57	78.2	-20.31	34.76	8.7	34.14	200	119	Peak
*5864	57.36	48.03	68.2	-10.84	34.76	8.71	34.14	200	119	Peak
11440	46.06	30.95	54	-7.94	37.86	12.65	35.4	121	170	Average
11440	56.15	41.04	74	-17.85	37.86	12.65	35.4	121	170	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5720 MHz: Fundamental Frequency
- *: 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	Karl Lee

<Spurious Emission>

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
5745	100.3	91.11			34.64	8.66	34.11	108	357	Average
5745	107.96	98.77			34.64	8.66	34.11	108	357	Peak
11490	47.15	32.03	54	-6.85	37.89	12.62	35.39	192	314	Average
11490	57.29	42.17	74	-16.71	37.89	12.62	35.39	192	314	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
5745	103.17	93.98			34.64	8.66	34.11	227	43	Average
5745	110.37	101.18			34.64	8.66	34.11	227	43	Peak
11490	46.89	31.77	54	-7.11	37.89	12.62	35.39	154	82	Average
11490	57.04	41.92	74	-16.96	37.89	12.62	35.39	154	82	Peak

<Out of Band Emission (OOBE)>

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
*5512.6	54.19	45.28	68.2	-14.01	34.4	8.57	34.06	108	357	Peak
5653.3	53.2	44.1	70.64	-17.44	34.56	8.63	34.09	108	357	Peak
5919.475	52.66	43.28	72.29	-19.63	34.81	8.73	34.16	108	357	Peak
*6006.1	52.72	43.23	68.2	-15.48	34.9	8.76	34.17	108	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
*5589.775	55.16	46.15	68.2	-13.04	34.49	8.6	34.08	227	43	Peak
5651.725	54.2	45.11	69.48	-15.28	34.56	8.62	34.09	227	43	Peak
5923.15	51.04	41.64	69.57	-18.53	34.83	8.73	34.16	227	43	Peak
*5976.175	53.85	44.39	68.2	-14.35	34.88	8.75	34.17	227	43	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	Karl Lee

<Spurious Emission>

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
5785	101.08	91.85			34.68	8.68	34.13	108	357	Average
5785	108.68	99.45			34.68	8.68	34.13	108	357	Peak
11570	47.85	32.54	54	-6.15	38	12.68	35.37	193	225	Average
11570	58.39	43.08	74	-15.61	38	12.68	35.37	193	225	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
5785	103.62	94.39			34.68	8.68	34.13	227	43	Average
5785	111.04	101.81			34.68	8.68	34.13	227	43	Peak
11570	47.06	31.75	54	-6.94	38	12.68	35.37	150	142	Average
11570	57.18	41.87	74	-16.82	38	12.68	35.37	150	142	Peak

<Out of Band Emission (OOBE)>

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
*5626	54.4	45.35	68.2	-13.8	34.52	8.61	34.08	108	357	Peak
5651.725	50.39	41.3	69.48	-19.09	34.56	8.62	34.09	108	357	Peak
5923.675	50.69	41.29	69.18	-18.49	34.83	8.73	34.16	108	357	Peak
*5978.275	53.09	43.63	68.2	-15.11	34.88	8.75	34.17	108	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
*5543.575	56.35	47.41	68.2	-11.85	34.43	8.58	34.07	227	43	Peak
5651.725	51.99	42.9	69.48	-17.49	34.56	8.62	34.09	227	43	Peak
5923.15	50.95	41.55	69.57	-18.62	34.83	8.73	34.16	227	43	Peak
*6000.85	54.01	44.52	68.2	-14.19	34.9	8.76	34.17	227	43	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	Karl Lee

<Spurious Emission>

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
5825	99.84	90.55			34.73	8.69	34.13	108	357	Average
5825	107.6	98.31			34.73	8.69	34.13	108	357	Peak
11650	46.62	31.09	54	-7.38	38.09	12.8	35.36	185	205	Average
11650	56.79	41.26	74	-17.21	38.09	12.8	35.36	185	205	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
5825	102.85	93.56			34.73	8.69	34.13	227	43	Average
5825	110.34	101.05			34.73	8.69	34.13	227	43	Peak
11650	47.42	31.89	54	-6.58	38.09	12.8	35.36	108	161	Average
11650	57.31	41.78	74	-16.69	38.09	12.8	35.36	108	161	Peak

<Out of Band Emission (OOBE)>

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
*5508.925	56.11	47.2	68.2	-12.09	34.4	8.57	34.06	108	357	Peak
5651.2	51.2	42.11	69.09	-17.89	34.56	8.62	34.09	108	357	Peak
5923.675	52.77	43.37	69.18	-16.41	34.83	8.73	34.16	108	357	Peak
*5980.375	54.39	44.93	68.2	-13.81	34.88	8.75	34.17	108	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
*5584	55.63	46.62	68.2	-12.57	34.49	8.6	34.08	227	43	Peak
5651.2	51.22	42.13	69.09	-17.87	34.56	8.62	34.09	227	43	Peak
5923.675	51.43	42.03	69.18	-17.75	34.83	8.73	34.16	227	43	Peak
*5926.3	54.74	45.34	68.2	-13.46	34.83	8.73	34.16	227	43	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5825 MHz: Fundamental Frequency
- *: 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	Karl Lee

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
5149.7	43.53	35.28	54	-10.47	34.12	8.13	34	127	360	Average
5149.7	53.49	45.24	74	-20.51	34.12	8.13	34	127	360	Peak
5180	85.93	77.62			34.15	8.16	34	127	360	Average
5180	94.42	86.11			34.15	8.16	34	127	360	Peak
5434.15	43.14	34.35	54	-10.86	34.35	8.48	34.04	127	360	Average
5434.15	54.03	45.24	74	-19.97	34.35	8.48	34.04	127	360	Peak
*10380	56.67	42.32	68.2	-11.53	37.13	12.36	35.14	186	227	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
5148.65	45.02	36.77	54	-8.98	34.12	8.13	34	105	171	Average
5148.65	55.22	46.97	74	-18.78	34.12	8.13	34	105	171	Peak
5190	89.46	81.12			34.15	8.19	34	120	171	Average
5190	97.27	88.93			34.15	8.19	34	120	171	Peak
5361.44	43.07	34.43	54	-10.93	34.29	8.38	34.03	120	171	Average
5361.44	54.02	45.38	74	-19.98	34.29	8.38	34.03	120	171	Peak
*10380	55.6	41.25	68.2	-12.6	37.13	12.36	35.14	185	129	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5190 MHz: Fundamental Frequency
- *: Out of Restricted Band

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	Karl Lee

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
5137.85	43.66	35.41	54	-10.34	34.11	8.13	33.99	127	314	Average
5137.85	53.85	45.6	74	-20.15	34.11	8.13	33.99	127	314	Peak
5230	93.93	85.53			34.19	8.22	34.01	127	314	Average
5230	101.06	92.66			34.19	8.22	34.01	127	314	Peak
5382.67	43.32	34.64	54	-10.68	34.31	8.41	34.04	127	314	Average
5382.67	53.37	44.69	74	-20.63	34.31	8.41	34.04	127	314	Peak
*10460	55.57	41.06	68.2	-12.63	37.17	12.53	35.19	185	123	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
5148.95	44.68	36.43	54	-9.32	34.12	8.13	34	111	164	Average
5148.95	54.22	45.97	74	-19.78	34.12	8.13	34	111	164	Peak
5230	96.6	88.2			34.19	8.22	34.01	105	171	Average
5230	104.11	95.71			34.19	8.22	34.01	105	171	Peak
5393.01	43.37	34.66	54	-10.63	34.31	8.44	34.04	105	171	Average
5393.01	53.74	45.03	74	-20.26	34.31	8.44	34.04	105	171	Peak
*10460	56.14	41.63	68.2	-12.06	37.17	12.53	35.19	151	236	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5230 MHz: Fundamental Frequency
- *: Out of Restricted Band

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	Karl Lee

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
5133.8	43.45	35.2	54	-10.55	34.11	8.13	33.99	121	76	Average
5133.8	54	45.75	74	-20	34.11	8.13	33.99	121	76	Peak
5270	95.48	86.99			34.21	8.29	34.01	121	76	Average
5270	102.93	94.44			34.21	8.29	34.01	121	76	Peak
5350.77	44.77	36.14	54	-9.23	34.28	8.38	34.03	121	76	Average
5350.77	53.98	45.35	74	-20.02	34.28	8.38	34.03	121	76	Peak
*10540	55.9	41.28	68.2	-12.3	37.23	12.63	35.24	129	75	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
5120.45	43.47	35.27	54	-10.53	34.09	8.1	33.99	100	170	Average
5120.45	54.61	46.41	74	-19.39	34.09	8.1	33.99	100	170	Peak
5270	97.44	88.95			34.21	8.29	34.01	100	170	Average
5270	104.6	96.11			34.21	8.29	34.01	100	170	Peak
5364.08	43.76	35.12	54	-10.24	34.29	8.38	34.03	100	170	Average
5364.08	53.62	44.98	74	-20.38	34.29	8.38	34.03	100	170	Peak
*10540	55.98	41.36	68.2	-12.22	37.23	12.63	35.24	154	121	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5270 MHz: Fundamental Frequency
- *: Out of Restricted Band

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	Karl Lee

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
5126.45	42.99	34.77	54	-11.01	34.11	8.1	33.99	121	76	Average
5126.45	53.22	45	74	-20.78	34.11	8.1	33.99	121	76	Peak
5310	88.74	80.19			34.25	8.32	34.02	121	76	Average
5310	95.37	86.82			34.25	8.32	34.02	121	76	Peak
5350.88	44.03	35.4	54	-9.97	34.28	8.38	34.03	121	76	Average
5350.88	53.93	45.3	74	-20.07	34.28	8.38	34.03	121	76	Peak
10620	46.3	31.59	54	-7.7	37.3	12.69	35.28	132	287	Average
10620	56.2	41.49	74	-17.8	37.3	12.69	35.28	132	287	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
5141.3	42.95	34.69	54	-11.05	34.12	8.13	33.99	100	170	Average
5141.3	53.11	44.85	74	-20.89	34.12	8.13	33.99	100	170	Peak
5310	90.2	81.65			34.25	8.32	34.02	100	170	Average
5310	97.22	88.67			34.25	8.32	34.02	100	170	Peak
5351.65	43.43	34.8	54	-10.57	34.28	8.38	34.03	100	170	Average
5351.65	54.53	45.9	74	-19.47	34.28	8.38	34.03	100	170	Peak
10620	46.28	31.57	54	-7.72	37.3	12.69	35.28	128	163	Average
10620	55.93	41.22	74	-18.07	37.3	12.69	35.28	128	163	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5310 MHz: Fundamental Frequency
- *: Out of Restricted Band

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	Karl Lee

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
5453.52	43.71	34.89	54	-10.29	34.36	8.51	34.05	200	291	Average
5453.52	54.17	45.35	74	-19.83	34.36	8.51	34.05	200	291	Peak
*5468.56	54.73	45.9	68.2	-13.47	34.37	8.51	34.05	200	291	Peak
5510	90.21	81.3			34.4	8.57	34.06	200	291	Average
5510	97.08	88.17			34.4	8.57	34.06	200	291	Peak
*5724.36	52.5	43.34	68.2	-15.7	34.62	8.65	34.11	200	291	Peak
11020	47.13	32.06	54	-6.87	37.61	12.94	35.48	195	225	Average
11020	57.01	41.94	74	-16.99	37.61	12.94	35.48	195	225	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
5458.64	43.72	34.9	54	-10.28	34.36	8.51	34.05	200	119	Average
5458.64	54.26	45.44	74	-19.74	34.36	8.51	34.05	200	119	Peak
*5470.96	54.62	45.76	68.2	-13.58	34.37	8.54	34.05	200	119	Peak
5510	91.49	82.58			34.4	8.57	34.06	200	119	Average
5510	98.54	89.63			34.4	8.57	34.06	200	119	Peak
*5726.04	52.66	43.5	68.2	-15.54	34.62	8.65	34.11	200	119	Peak
11020	47.25	32.18	54	-6.75	37.61	12.94	35.48	112	76	Average
11020	57.18	42.11	74	-16.82	37.61	12.94	35.48	112	76	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. *: 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	Karl Lee

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
5459.6	48.36	39.54	54	-5.64	34.36	8.51	34.05	198	291	Average
5459.6	57.86	49.04	74	-16.14	34.36	8.51	34.05	198	291	Peak
*5470.64	60.64	51.81	68.2	-7.56	34.37	8.51	34.05	198	291	Peak
5550	98.74	89.77			34.45	8.59	34.07	200	291	Average
5550	105.31	96.34			34.45	8.59	34.07	200	291	Peak
*5725.64	52.43	43.27	68.2	-15.77	34.62	8.65	34.11	200	291	Peak
11000	46.52	31.44	54	-7.48	37.6	12.96	35.48	139	217	Average
11000	56.58	41.5	74	-17.42	37.6	12.96	35.48	139	217	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
5458.64	49.25	40.43	54	-4.75	34.36	8.51	34.05	195	120	Average
5458.64	57.82	49	74	-16.18	34.36	8.51	34.05	195	120	Peak
*5468.72	60.95	52.12	68.2	-7.25	34.37	8.51	34.05	195	120	Peak
5550	99.8	90.83			34.45	8.59	34.07	200	119	Average
5550	106.67	97.7			34.45	8.59	34.07	200	119	Peak
*5724.84	53.32	44.16	68.2	-14.88	34.62	8.65	34.11	200	119	Peak
11000	46.47	31.39	54	-7.53	37.6	12.96	35.48	131	168	Average
11000	56.77	41.69	74	-17.23	37.6	12.96	35.48	131	168	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5550 MHz: Fundamental Frequency
- *: 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	Karl Lee

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
5448.4	43.41	34.58	54	-10.59	34.36	8.51	34.04	200	291	Average
5448.4	53.75	44.92	74	-20.25	34.36	8.51	34.04	200	291	Peak
*5469.84	52.53	43.7	68.2	-15.67	34.37	8.51	34.05	200	291	Peak
5670	93.36	84.26			34.57	8.63	34.1	200	291	Average
5670	100.31	91.21			34.57	8.63	34.1	200	291	Peak
*5724.04	53.09	43.93	68.2	-15.11	34.62	8.65	34.11	200	291	Peak
11340	46.74	31.65	54	-7.26	37.8	12.71	35.42	104	39	Average
11340	56.95	41.86	74	-17.05	37.8	12.71	35.42	104	39	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
5437.2	43.54	34.75	54	-10.46	34.35	8.48	34.04	200	119	Average
5437.2	53.65	44.86	74	-20.35	34.35	8.48	34.04	200	119	Peak
*5470	52.66	43.83	68.2	-15.54	34.37	8.51	34.05	200	119	Peak
5670	94.77	85.67			34.57	8.63	34.1	200	119	Average
5670	101.61	92.51			34.57	8.63	34.1	200	119	Peak
*5724.92	55.44	46.28	68.2	-12.76	34.62	8.65	34.11	200	119	Peak
11340	47.34	32.25	54	-6.66	37.8	12.71	35.42	112	185	Average
11340	57.28	42.19	74	-16.72	37.8	12.71	35.42	112	185	Peak

Remarks:

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

EUT Test Condition		Measurement Detail	
Channel	Channel 142	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	Karl Lee

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
5438.64	43.05	34.26	54	-10.95	34.35	8.48	34.04	200	291	Average
5438.64	53.69	44.9	74	-20.31	34.35	8.48	34.04	200	291	Peak
*5468.4	53.35	44.52	68.2	-14.85	34.37	8.51	34.05	200	291	Peak
5710	96.96	87.81			34.61	8.65	34.11	200	291	Average
5710	104.75	95.6			34.61	8.65	34.11	200	291	Peak
*5860	57.77	48.45	78.2	-20.43	34.76	8.7	34.14	200	291	Peak
*5862	58.21	48.88	68.2	-9.99	34.76	8.71	34.14	200	291	Peak
11420	46.41	31.31	54	-7.59	37.85	12.65	35.4	100	188	Average
11420	56.55	41.45	74	-17.45	37.85	12.65	35.4	100	188	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
5457.2	43.13	34.31	54	-10.87	34.36	8.51	34.05	200	119	Average
5457.2	53.71	44.89	74	-20.29	34.36	8.51	34.05	200	119	Peak
*5470	52.47	43.64	68.2	-15.73	34.37	8.51	34.05	200	119	Peak
5710	97.59	88.44			34.61	8.65	34.11	200	119	Average
5710	105.72	96.57			34.61	8.65	34.11	200	119	Peak
*5856	56.4	47.08	78.2	-21.8	34.76	8.7	34.14	200	119	Peak
*5864	58.33	49	68.2	-9.87	34.76	8.71	34.14	200	119	Peak
11420	47.33	32.23	54	-6.67	37.85	12.65	35.4	100	0	Average
11420	57.54	42.44	74	-16.46	37.85	12.65	35.4	100	0	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5710 MHz: Fundamental Frequency
- *: 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	Karl Lee

<Spurious Emission>

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
5755	96.13	86.92			34.66	8.66	34.11	108	357	Average
5755	104.35	95.14			34.66	8.66	34.11	108	357	Peak
11510	47.28	32.17	54	-6.72	37.9	12.6	35.39	166	245	Average
11510	57.5	42.39	74	-16.5	37.9	12.6	35.39	166	245	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
5755	99.13	89.92			34.66	8.66	34.11	227	43	Average
5755	107.44	98.23			34.66	8.66	34.11	227	43	Peak
11510	46.33	31.22	54	-7.67	37.9	12.6	35.39	132	149	Average
11510	56.5	41.39	74	-17.5	37.9	12.6	35.39	132	149	Peak

<Out of Band Emission (OOBE)>

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
*5624.425	54.35	45.3	68.2	-13.85	34.52	8.61	34.08	108	357	Peak
5653.825	53.18	44.09	71.03	-17.85	34.56	8.63	34.1	108	357	Peak
5923.15	50.67	41.27	69.57	-18.9	34.83	8.73	34.16	108	357	Peak
*5977.225	53.88	44.42	68.2	-14.32	34.88	8.75	34.17	108	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
*5648.05	55.06	45.99	68.2	-13.14	34.54	8.62	34.09	227	43	Peak
5653.3	56.8	47.7	70.64	-13.84	34.56	8.63	34.09	227	43	Peak
5923.15	51.21	41.81	69.57	-18.36	34.83	8.73	34.16	227	43	Peak
*6014.5	54.7	45.2	68.2	-13.5	34.92	8.76	34.18	227	43	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	Karl Lee

<Spurious Emission>

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
5795	98.27	89.03			34.69	8.68	34.13	108	357	Average
5795	105.74	96.5			34.69	8.68	34.13	108	357	Peak
11590	48.32	32.95	54	-5.68	38.02	12.72	35.37	112	326	Average
11590	58.24	42.87	74	-15.76	38.02	12.72	35.37	112	326	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
5795	100.91	91.67			34.69	8.68	34.13	227	43	Average
5795	108.87	99.63			34.69	8.68	34.13	227	43	Peak
11590	47.59	32.22	54	-6.41	38.02	12.72	35.37	127	28	Average
11590	57.89	42.52	74	-16.11	38.02	12.72	35.37	127	28	Peak

<Out of Band Emission (OOBE)>

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
*5553.025	54.3	45.33	68.2	-13.9	34.45	8.59	34.07	108	357	Peak
5651.2	52.9	43.81	69.09	-16.19	34.56	8.62	34.09	108	357	Peak
5923.675	50.79	41.39	69.18	-18.39	34.83	8.73	34.16	108	357	Peak
*5955.175	54.31	44.88	68.2	-13.89	34.85	8.74	34.16	108	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
*5645.95	56.27	47.2	68.2	-11.93	34.54	8.62	34.09	227	43	Peak
5652.25	55.91	46.82	69.86	-13.95	34.56	8.62	34.09	227	43	Peak
5920.525	53.47	44.09	71.51	-18.04	34.81	8.73	34.16	227	43	Peak
*5991.925	53.98	44.49	68.2	-14.22	34.9	8.76	34.17	227	43	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	Karl Lee

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
5143.1	43.59	35.33	54	-10.41	34.12	8.13	33.99	108	314	Average
5143.1	53.73	45.47	74	-20.27	34.12	8.13	33.99	108	314	Peak
5210	81.15	72.79			34.17	8.19	34	108	314	Average
5210	89.56	81.2			34.17	8.19	34	108	314	Peak
5443.83	43.15	34.36	54	-10.85	34.35	8.48	34.04	108	314	Average
5443.83	53.22	44.43	74	-20.78	34.35	8.48	34.04	108	314	Peak
*10420	55.1	40.69	68.2	-13.1	37.15	12.42	35.16	113	215	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
5147	45.09	36.84	54	-8.91	34.12	8.13	34	123	168	Average
5147	54.28	46.03	74	-19.72	34.12	8.13	34	123	168	Peak
5210	83.42	75.06			34.17	8.19	34	123	168	Average
5210	92.89	84.53			34.17	8.19	34	123	168	Peak
5445.48	43.5	34.68	54	-10.5	34.35	8.51	34.04	123	168	Average
5445.48	53.33	44.51	74	-20.67	34.35	8.51	34.04	123	168	Peak
*10420	55.24	40.83	68.2	-12.96	37.15	12.42	35.16	124	189	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5210 MHz: Fundamental Frequency
- *: Out of Restricted Band

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	Karl Lee

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
5128.85	43.45	35.23	54	-10.55	34.11	8.1	33.99	121	76	Average
5128.85	53.21	44.99	74	-20.79	34.11	8.1	33.99	121	76	Peak
5290	83.25	74.72			34.23	8.32	34.02	121	76	Average
5290	90.17	81.64			34.23	8.32	34.02	121	76	Peak
5352.31	43.7	35.07	54	-10.3	34.28	8.38	34.03	121	76	Average
5352.31	53.69	45.06	74	-20.31	34.28	8.38	34.03	121	76	Peak
*10580	56.09	41.44	68.2	-12.11	37.27	12.65	35.27	131	206	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
5138	42.57	34.32	54	-11.43	34.11	8.13	33.99	100	170	Average
5138	54.03	45.78	74	-19.97	34.11	8.13	33.99	100	170	Peak
5290	85.14	76.61			34.23	8.32	34.02	100	170	Average
5290	92.62	84.09			34.23	8.32	34.02	100	170	Peak
5353.74	42.93	34.3	54	-11.07	34.28	8.38	34.03	100	170	Average
5353.74	54.22	45.59	74	-19.78	34.28	8.38	34.03	100	170	Peak
*10580	56.36	41.71	68.2	-11.84	37.27	12.65	35.27	117	243	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5290 MHz: Fundamental Frequency
- *: Out of Restricted Band

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	Karl Lee

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
5459.92	44.5	35.68	54	-9.5	34.36	8.51	34.05	200	291	Average
5459.92	54.41	45.59	74	-19.59	34.36	8.51	34.05	200	291	Peak
*5469.04	55.97	47.14	68.2	-12.23	34.37	8.51	34.05	200	291	Peak
5530	85.55	76.62			34.42	8.58	34.07	200	291	Average
5530	92.41	83.48			34.42	8.58	34.07	200	291	Peak
*5724.12	52.07	42.91	68.2	-16.13	34.62	8.65	34.11	200	291	Peak
11060	46.53	31.45	54	-7.47	37.64	12.91	35.47	127	169	Average
11060	56.48	41.4	74	-17.52	37.64	12.91	35.47	127	169	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
5459.76	44.89	36.07	54	-9.11	34.36	8.51	34.05	200	119	Average
5459.76	54.28	45.46	74	-19.72	34.36	8.51	34.05	200	119	Peak
*5469.2	54.32	45.49	68.2	-13.88	34.37	8.51	34.05	200	119	Peak
5530	86.63	77.7			34.42	8.58	34.07	200	119	Average
5530	93.53	84.6			34.42	8.58	34.07	200	119	Peak
*5725.8	52.61	43.45	68.2	-15.59	34.62	8.65	34.11	200	119	Peak
11060	46.42	31.34	54	-7.58	37.64	12.91	35.47	124	157	Average
11060	56.64	41.56	74	-17.36	37.64	12.91	35.47	124	157	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5530 MHz: Fundamental Frequency
- *: 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	Karl Lee

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
5455.12	44.82	36	54	-9.18	34.36	8.51	34.05	200	291	Average
5455.12	53.85	45.03	74	-20.15	34.36	8.51	34.05	200	291	Peak
*5469.36	53.27	44.44	68.2	-14.93	34.37	8.51	34.05	200	291	Peak
5610	92.5	83.47			34.5	8.61	34.08	200	291	Average
5610	99.4	90.37			34.5	8.61	34.08	200	291	Peak
*5725.96	53.27	44.11	68.2	-14.93	34.62	8.65	34.11	200	291	Peak
11220	45.89	30.8	54	-8.11	37.73	12.8	35.44	156	207	Average
11220	56.19	41.1	74	-17.81	37.73	12.8	35.44	156	207	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
5455.12	44.75	35.93	54	-9.25	34.36	8.51	34.05	200	119	Average
5455.12	55.72	46.9	74	-18.28	34.36	8.51	34.05	200	119	Peak
*5468.4	55.62	46.79	68.2	-12.58	34.37	8.51	34.05	200	119	Peak
5610	93.78	84.75			34.5	8.61	34.08	200	119	Average
5610	100.51	91.48			34.5	8.61	34.08	200	119	Peak
*5725.72	54.45	45.29	68.2	-13.75	34.62	8.65	34.11	200	119	Peak
11220	46.48	31.39	54	-7.52	37.73	12.8	35.44	142	85	Average
11220	56.69	41.6	74	-17.31	37.73	12.8	35.44	142	85	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5610 MHz: Fundamental Frequency
- *: Out of Restricted Band

EUT Test Condition		Measurement Detail	
Channel	Channel 138	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	Karl Lee

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
5404.24	43.79	35.07	54	-10.21	34.32	8.44	34.04	200	291	Average
5404.24	53.96	45.24	74	-20.04	34.32	8.44	34.04	200	291	Peak
*5470.96	52.61	43.75	68.2	-15.59	34.37	8.54	34.05	200	291	Peak
5690	94.11	84.98			34.59	8.64	34.1	200	291	Average
5690	102.44	93.31			34.59	8.64	34.1	200	291	Peak
*5852	57.92	48.62	78.2	-20.28	34.74	8.7	34.14	200	291	Peak
*5868	57.89	48.56	68.2	-10.31	34.76	8.71	34.14	200	291	Peak
11380	46.85	31.74	54	-7.15	37.83	12.69	35.41	142	177	Average
11380	57.16	42.05	74	-16.84	37.83	12.69	35.41	142	177	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
5456.24	44.16	35.34	54	-9.84	34.36	8.51	34.05	200	119	Average
5456.24	54.85	46.03	74	-19.15	34.36	8.51	34.05	200	119	Peak
*5468.56	53.9	45.07	68.2	-14.3	34.37	8.51	34.05	200	119	Peak
5690	94.91	85.78			34.59	8.64	34.1	200	119	Average
5690	103.18	94.05			34.59	8.64	34.1	200	119	Peak
*5858	57.89	48.57	78.2	-20.31	34.76	8.7	34.14	200	119	Peak
*5866	57.89	48.56	68.2	-10.31	34.76	8.71	34.14	200	119	Peak
11380	47.11	32	54	-6.89	37.83	12.69	35.41	131	256	Average
11380	57.33	42.22	74	-16.67	37.83	12.69	35.41	131	256	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5690 MHz: Fundamental Frequency
- *: 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	Karl Lee

<Spurious Emission>

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
5775	91.59	82.36			34.68	8.67	34.12	108	357	Average
5775	100.03	90.8			34.68	8.67	34.12	108	357	Peak
11550	48.27	33	54	-5.73	37.97	12.68	35.38	139	224	Average
11550	58.11	42.84	74	-15.89	37.97	12.68	35.38	139	224	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
5775	94.88	85.65			34.68	8.67	34.12	227	43	Average
5775	103.28	94.05			34.68	8.67	34.12	227	43	Peak
11550	47.01	31.74	54	-6.99	37.97	12.68	35.38	108	154	Average
11550	57.29	42.02	74	-16.71	37.97	12.68	35.38	108	154	Peak

<Out of Band Emission (OOBE)>

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
*5643.85	53.79	44.72	68.2	-14.41	34.54	8.62	34.09	108	357	Peak
5651.725	51.23	42.14	69.48	-18.25	34.56	8.62	34.09	108	357	Peak
5921.575	52.53	43.13	70.73	-18.2	34.83	8.73	34.16	108	357	Peak
*5934.175	53.27	43.87	68.2	-14.93	34.83	8.73	34.16	108	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
*5643.325	56.34	47.27	68.2	-11.86	34.54	8.62	34.09	227	43	Peak
5652.775	53.34	44.24	70.25	-16.91	34.56	8.63	34.09	227	43	Peak
5921.575	51.39	41.99	70.73	-19.34	34.83	8.73	34.16	227	43	Peak
*5943.625	53.73	44.3	68.2	-14.47	34.85	8.74	34.16	227	43	Peak

Remarks:

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

9 kHz ~ 30 MHz Data:

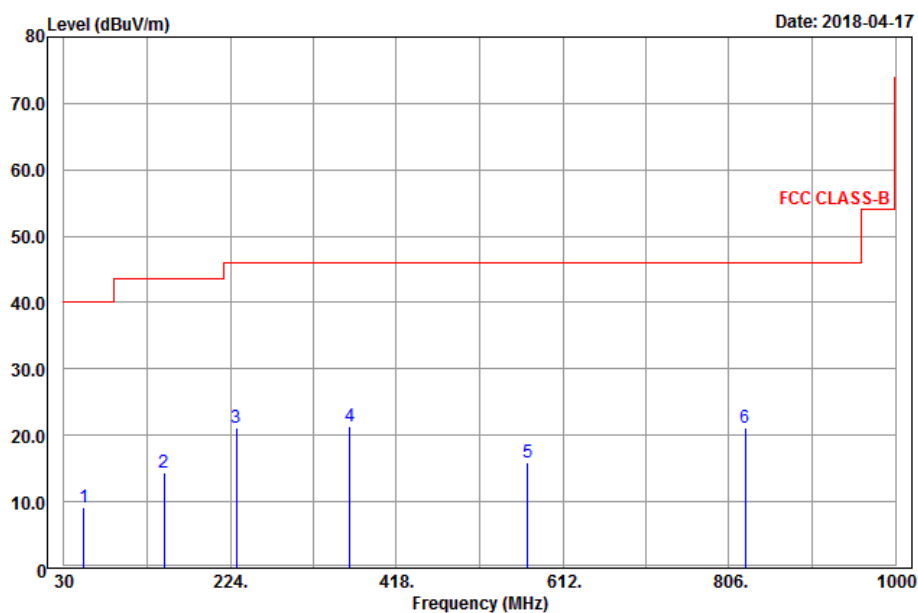
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

30 MHz ~ 1 GHz Worst-Case Data:

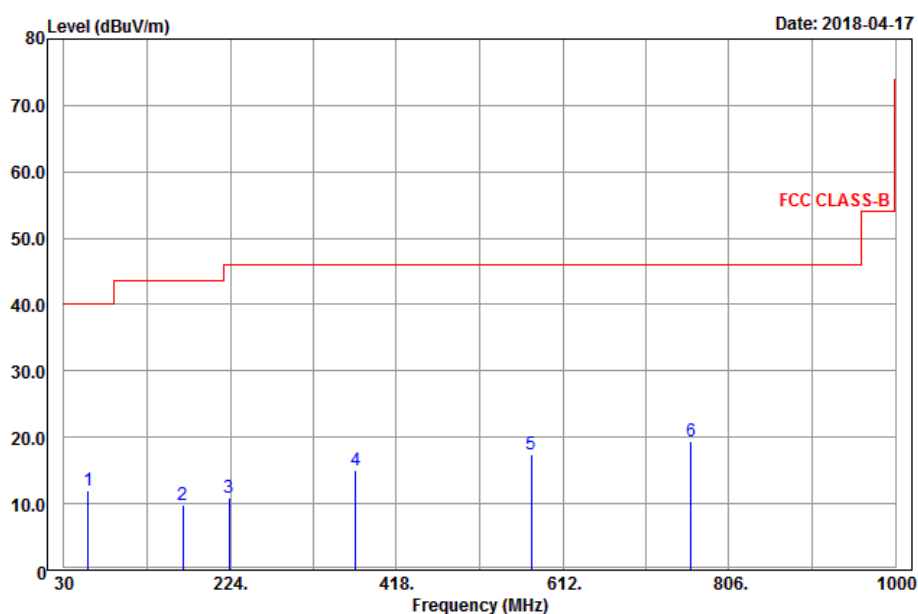
802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 110	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
52.95	9.09	26.12	40	-30.91	14.3	0.9	32.23	123	116	Peak
146.91	14.36	36.72	43.5	-29.14	8.39	1.52	32.27	158	127	Peak
230.88	21.12	39.65	46	-24.88	11.79	1.85	32.17	169	224	Peak
363.7	21.42	36.87	46	-24.58	14.4	2.26	32.11	131	226	Peak
570.9	15.88	27.77	46	-30.12	17.49	2.82	32.2	180	205	Peak
825	21.23	29.06	46	-24.77	20.71	3.38	31.92	196	123	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
58.08	12.03	29.68	40	-27.97	13.68	0.9	32.23	162	354	Peak
168.78	9.89	31.55	43.5	-33.61	9.06	1.52	32.24	107	54	Peak
222.51	10.8	29.94	46	-35.2	11.42	1.65	32.21	169	124	Peak
370	15.03	30.42	46	-30.97	14.48	2.26	32.13	150	143	Peak
575.1	17.53	29.36	46	-28.47	17.55	2.82	32.2	164	129	Peak
762	19.4	28.36	46	-26.6	19.94	3.22	32.12	100	176	Peak

Remarks:

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

4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

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

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration	Due Date Of Calibration
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 23, 2017	Nov. 22, 2018
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Sep. 05, 2017	Sep. 04, 2018
LISN/AMN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Mar. 06, 2018	Mar. 05, 2019
LISN/AMN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 15, 2017	Aug. 14, 2018
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 1.
 3. The VCCI Site Registration No. is C-2040.

4.2.3 Test Procedures

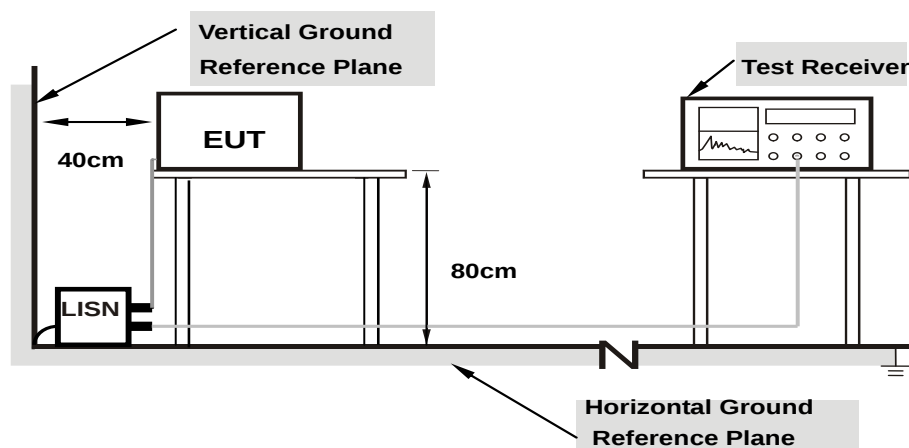
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

Note: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



- Note:** 1.Support units were connected to second LISN.
 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

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

4.2.6 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.

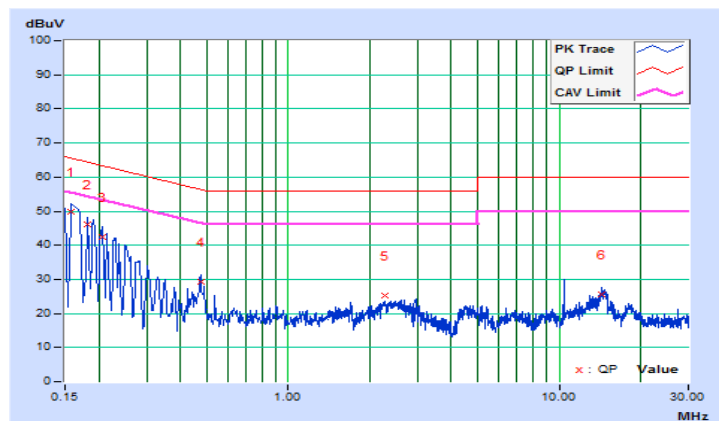
4.2.7 Test Results

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Getaz Yang	Test Date	2018/4/13

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15811	10.10	39.77	23.12	49.87	33.22	65.56	55.56	-15.69	-22.34
2	0.18200	10.10	35.92	18.58	46.02	28.68	64.39	54.39	-18.37	-25.71
3	0.20600	10.10	32.36	14.91	42.46	25.01	63.37	53.37	-20.91	-28.36
4	0.47400	10.12	19.16	7.70	29.28	17.82	56.44	46.44	-27.16	-28.62
5	2.28200	10.20	15.04	2.42	25.24	12.62	56.00	46.00	-30.76	-33.38
6	14.27400	10.87	14.81	2.25	25.68	13.12	60.00	50.00	-34.32	-36.88

Remarks:

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

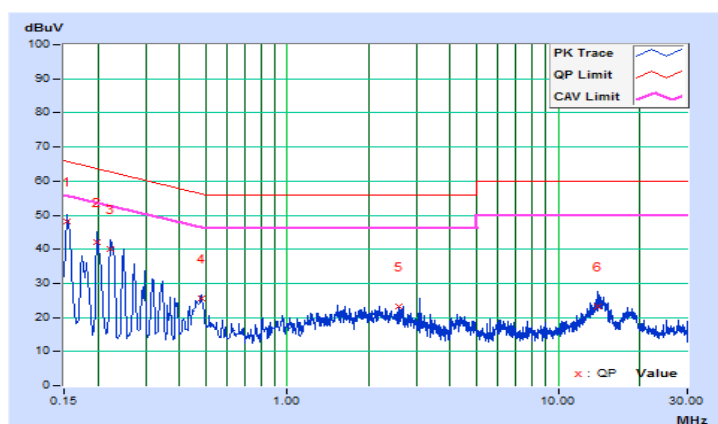


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Getaz Yang	Test Date	2018/4/13

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	10.10	38.19	20.87	48.29	30.97	65.78	55.78	-17.49	-24.81
2	0.19800	10.10	31.98	13.92	42.08	24.02	63.69	53.69	-21.61	-29.67
3	0.22211	10.11	29.79	12.86	39.90	22.97	62.74	52.74	-22.84	-29.77
4	0.48200	10.12	15.55	4.26	25.67	14.38	56.30	46.30	-30.63	-31.92
5	2.58200	10.20	13.07	2.31	23.27	12.51	56.00	46.00	-32.73	-33.49
6	13.91000	10.69	12.55	1.61	23.24	12.30	60.00	50.00	-36.76	-37.70

Remarks:

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



4.3 Transmit Power Measurement

4.3.1 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 $N_{ANT} \leq 4$;

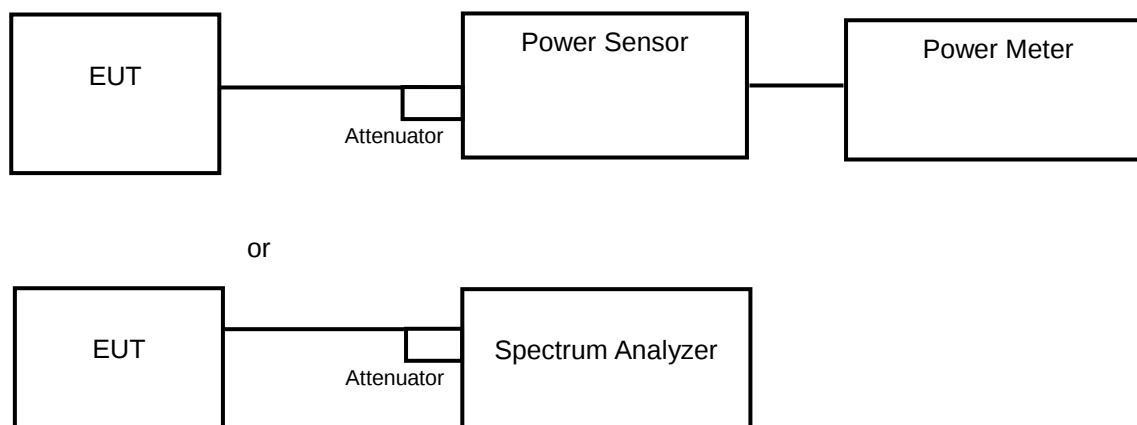
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

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.

4.3.2 Test Setup

<Power Output Measurement>



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 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)>

- a. Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- b. Set sweep trigger to "free run".
- c. Set RBW = 1 MHz.
- d. Set VBW $\geq$ 3 MHz
- e. Number of points in sweep $\geq$ 2 Span / RBW.
- f. Sweep time $\leq$ (number of points in sweep) * T
- g. Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
- h. Detector = RMS.
- i. Trace mode = max hold.
- j. Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

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

4.3.7 Test Result

Power Output:

802.11a

Channel	Frequency (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	71.945	18.57	24	Pass
44	5220	70.958	18.51	24	Pass
48	5240	71.614	18.55	24	Pass
52	5260	73.621	18.67	24	Pass
60	5300	70.795	18.50	24	Pass
64	5320	68.077	18.33	24	Pass
100	5500	59.841	17.77	24	Pass
116	5580	56.754	17.54	24	Pass
140	5700	59.02	17.71	24	Pass
149	5745	60.954	17.85	30	Pass
157	5785	60.534	17.82	30	Pass
165	5825	57.677	17.61	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	11.73	11.89	30.347	14.82	24	Pass
44	5220	11.75	11.80	30.098	14.79	24	Pass
48	5240	11.90	11.85	30.799	14.89	24	Pass
52	5260	12.17	11.92	32.042	15.06	24	Pass
60	5300	12.10	11.95	31.886	15.04	24	Pass
64	5320	12.04	11.88	31.413	14.97	24	Pass
100	5500	12.01	11.84	31.161	14.94	24	Pass
116	5580	11.91	11.79	30.625	14.86	24	Pass
140	5700	11.74	12.02	30.85	14.89	24	Pass
144	5720 (U-NII-2C)	11.70	11.95	30.459	14.84	24	Pass
144	5720 (U-NII-3)	11.70	11.95	30.459	14.84	30	Pass
149	5745	11.19	11.23	26.426	14.22	30	Pass
157	5785	11.20	11.26	26.549	14.24	30	Pass
165	5825	10.96	11.70	27.265	14.36	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	11.68	11.87	30.105	14.79	24	Pass
46	5230	11.85	11.56	29.633	14.72	24	Pass
54	5270	12.33	12.00	32.949	15.18	24	Pass
62	5310	12.01	11.78	30.951	14.91	24	Pass
102	5510	12.19	11.79	31.659	15.00	24	Pass
110	5550	12.04	11.77	31.027	14.92	24	Pass
134	5670	11.98	11.80	30.912	14.90	24	Pass
142	5710 (U-NII-2C)	11.70	12.11	31.046	14.92	24	Pass
142	5710 (U-NII-3)	11.70	12.11	31.046	14.92	30	Pass
151	5755	11.26	11.44	27.298	14.36	30	Pass
159	5795	11.23	11.66	27.929	14.46	30	Pass

802.11ac (VHT80)

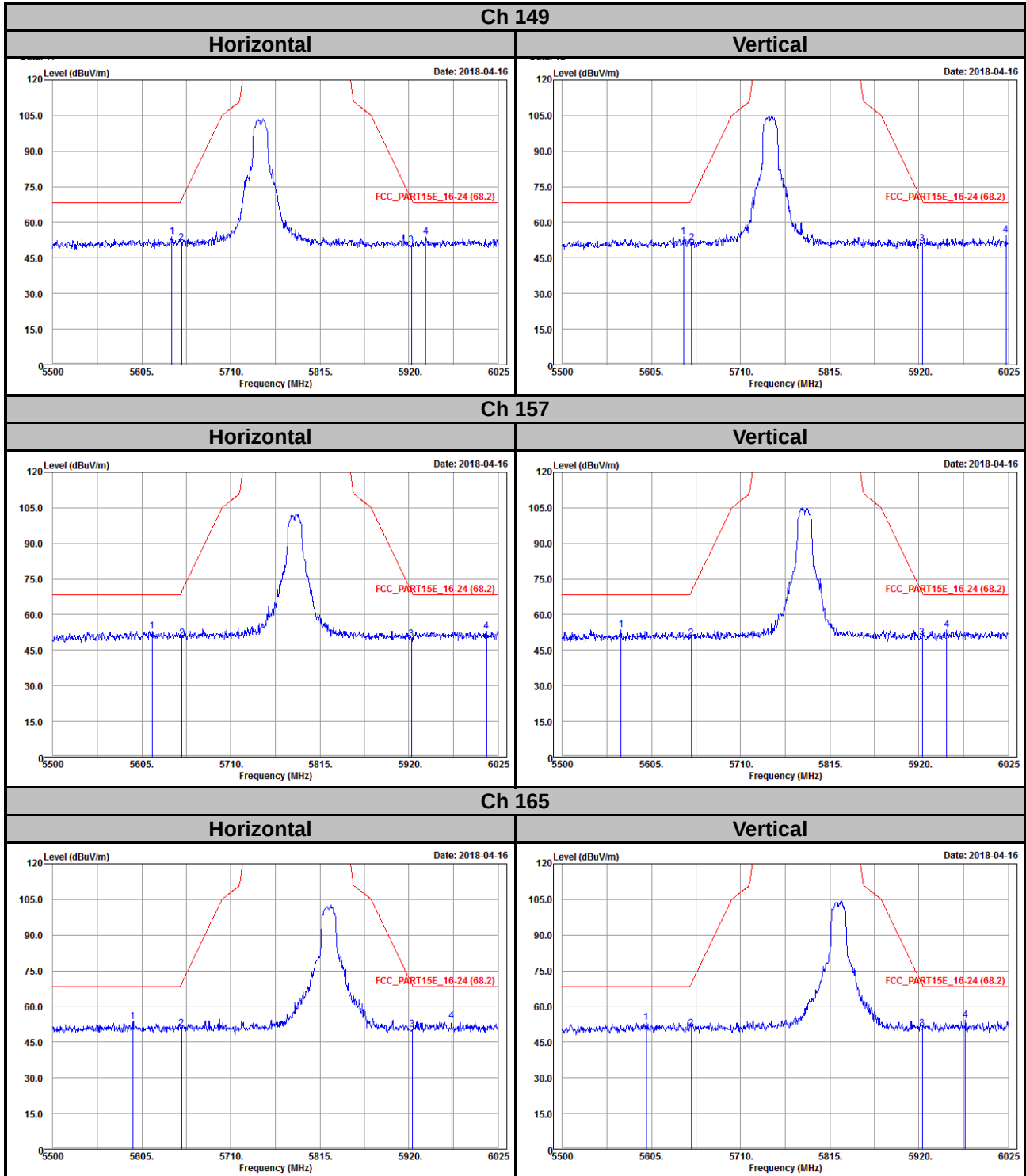
Channel	Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	11.75	11.93	30.558	14.85	24	Pass
58	5290	11.57	11.56	28.677	14.58	24	Pass
106	5530	11.52	11.44	28.123	14.49	24	Pass
122	5610	11.56	11.41	28.158	14.50	24	Pass
138	5690 (U-NII-2C)	11.44	11.39	27.704	14.43	24	Pass
138	5690 (U-NII-3)	11.44	11.39	27.704	14.43	30	Pass
155	5775	10.56	10.70	23.125	13.64	30	Pass

5 Pictures of Test Arrangements

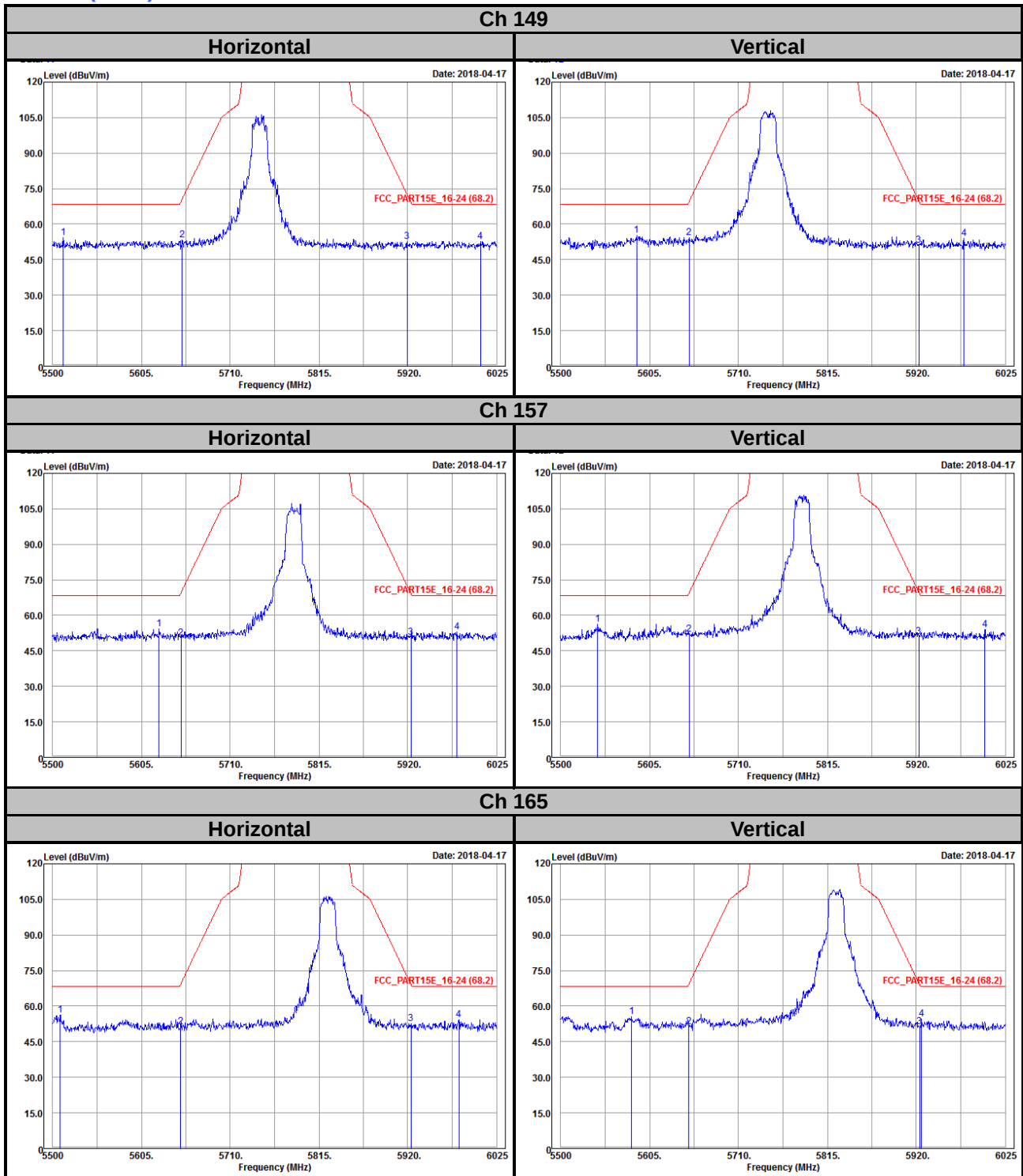
Please refer to the attached file (Test Setup Photo).

Annex A- Radiated Out of Band Emisison (OOBE) Measurement (For U-NII-3 band)

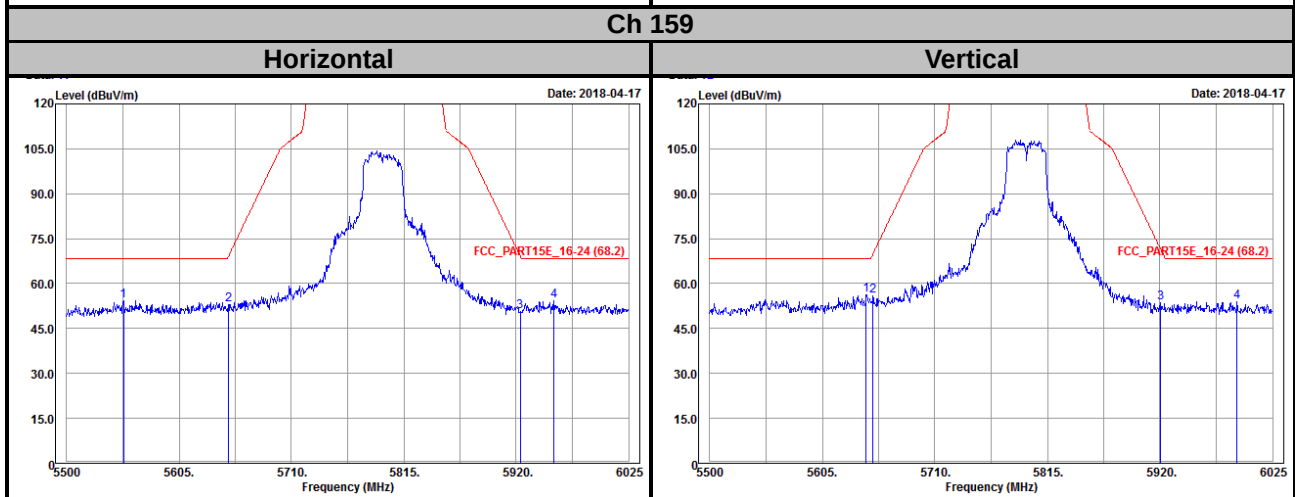
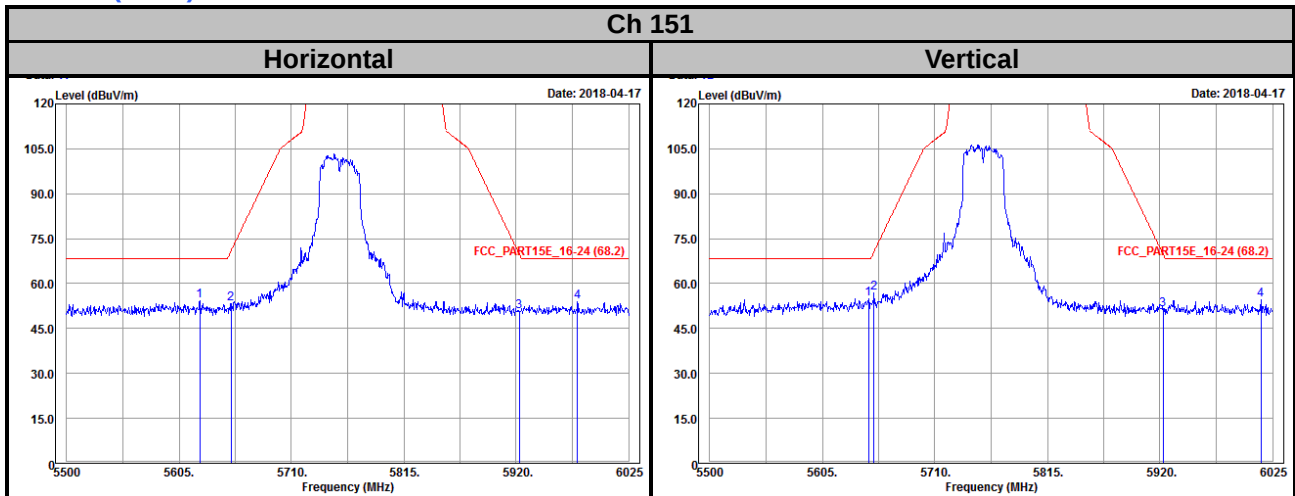
802.11a



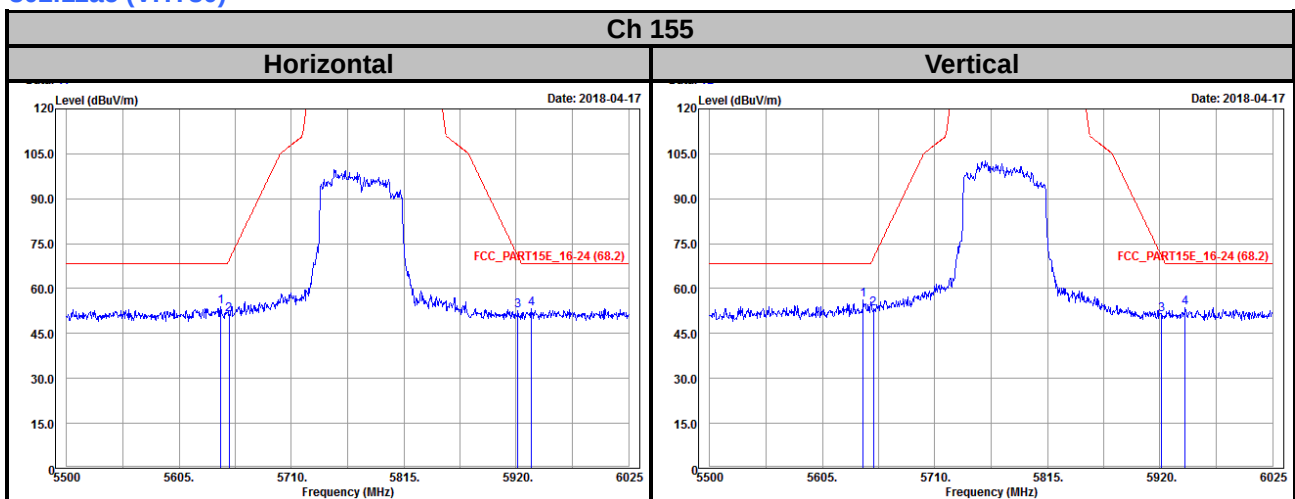
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



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 FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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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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