

7 峰值傳導輸出功率之量測

7.1 適用標準

請見本報告3.1節第6項(I)及4項(I)的規定。

7.2 量測方法

- 將待測物輸出經由衰減器接到Power Meter上。
- 設定待測物處於連續發射狀態。
- 計算其輸出功率峰值。

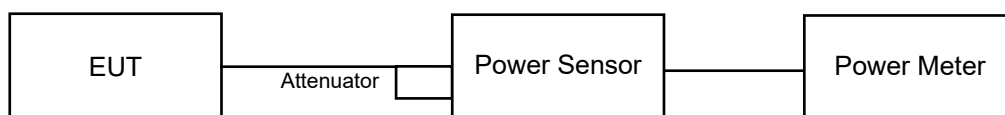
7.3 量測儀器

儀器名稱 (廠牌/製造商)	型號	序號	校正日期	下次校正日期
Power Meter Anritsu	ML2495A	1232002	Dec. 17, 2018	Dec. 16, 2019
Power Sensor Anritsu	MA2411B	1207325	Dec. 17, 2018	Dec. 16, 2019
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY5 5190004/MY55190 007/MY55210005	Jul. 17, 2018	Jul. 16, 2019

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- The measurement uncertainty is 1.393dB, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

7.4 測試配置



7.5 量測結果

操作模式	發射	測試日期	108 年 01 月 22 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	吳俊樺		

802.11b

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	73.79	18.68	30	Pass
6	2437	73.114	18.64	30	Pass
11	2462	74.645	18.73	30	Pass

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	41.495	16.18
6	2437	39.719	15.99
11	2462	42.364	16.27

802.11g

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	197.242	22.95	30	Pass
6	2437	212.814	23.28	30	Pass
11	2462	206.063	23.14	30	Pass

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	30.761	14.88
6	2437	32.285	15.09
11	2462	31.989	15.05

802.11n (HT20)

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	21.22	21.00	258.327	24.12	30	Pass
6	2437	22.03	21.87	313.403	24.96	30	Pass
11	2462	21.85	21.54	295.670	24.71	30	Pass

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
		Chain 0	Chain 1		
1	2412	13.15	13.26	41.838	16.22
6	2437	14.30	14.08	52.501	17.20
11	2462	13.69	13.74	47.047	16.73

802.11n (HT40)

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	23.54	23.36	442.714	26.46	30	Pass
6	2437	24.06	23.60	483.770	26.85	30	Pass
9	2452	22.75	22.40	362.145	25.59	30	Pass

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)
		Chain 0	Chain 1		
3	2422	13.20	13.14	41.499	16.18
6	2437	13.71	13.78	47.374	16.76
9	2452	12.63	12.64	36.688	15.65

7.6 量測結果判定

依據測試數據結果，符合低功率射頻器材技術規範之要求。

8 功率頻譜密度之量測

8.1 適用標準

請見本報告3.1節第7項(I)的規定。

8.2 量測方法

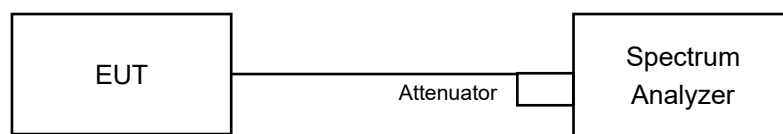
- 將待測物之天線埠連接至測試儀器。
- 設定解析頻寬為 3kHz，視訊頻寬為 10kHz，掃描時間設為自動，直至掃描信號穩定。
- 使用峰值功能鍵，並找到最大的峰值準位。

8.3 量測儀器

儀器名稱 (廠牌/製造商)	型號	序號	校正日期	下次校正日期
SPECTRUM ANALYZER R&S	FSV40	100980	Apr. 17, 2018	Apr. 16, 2019

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 measurement uncertainty is 207Hz, which is calculated as per the document ETSI TR 100 028. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

8.4 測試配置



8.5 量測結果

操作模式	發射	測試日期	108 年 01 月 22 日
量測場地溫度	25°C	量測場地濕度	60%RH
測試者	吳俊樺		

802.11b

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-7.24	8	Pass
6	2437	-7.17	8	Pass
11	2462	-7.97	8	Pass

802.11g

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-11.40	8	Pass
6	2437	-11.38	8	Pass
11	2462	-11.67	8	Pass

802.11n (HT20)

TX Chain	Channel	Freq. (MHz)	PSD (dBm/3 kHz)	10 log (N=2) dB	Total PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
0	1	2412	-13.59	3.01	-10.58	5.99	Pass
	6	2437	-14.16	3.01	-11.15	5.99	Pass
	11	2462	-14.61	3.01	-11.60	5.99	Pass
1	1	2412	-13.15	3.01	-10.14	5.99	Pass
	6	2437	-12.92	3.01	-9.91	5.99	Pass
	11	2462	-13.51	3.01	-10.50	5.99	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
- Directional Gain = 5dBi + 10log(2) = 8.01dBi > 6 dBi, so the power density limit shall be reduced to 8-(8.01-6) = 5.99 dBm.
- Refer to section 2.1 for duty cycle spectrum plot.

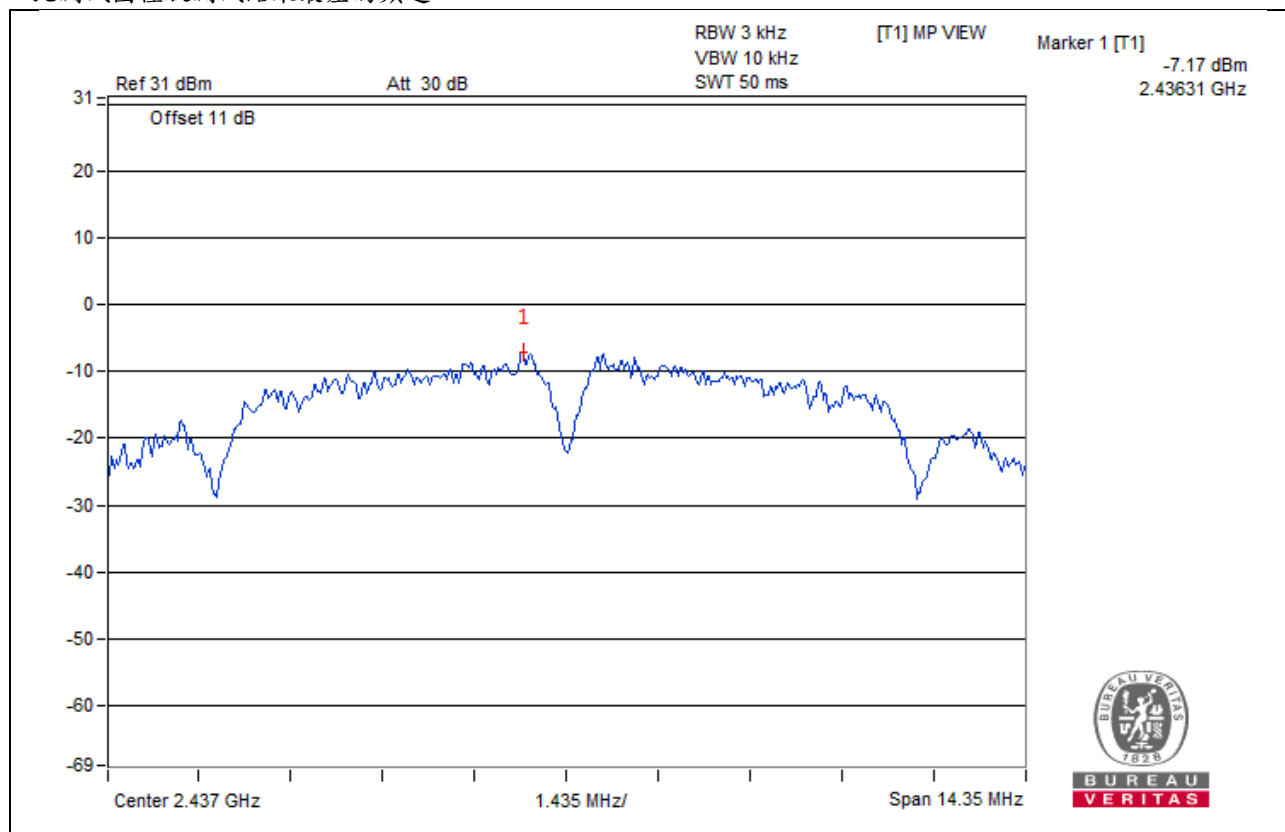
802.11n (HT40)

TX Chain	Channel	Freq. (MHz)	PSD (dBm/3 kHz)	10 log (N=2) dB	Total PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
0	3	2422	-17.80	3.01	-14.79	5.99	Pass
	6	2437	-17.67	3.01	-14.66	5.99	Pass
	9	2452	-18.88	3.01	-15.87	5.99	Pass
1	3	2422	-18.05	3.01	-15.04	5.99	Pass
	6	2437	-17.42	3.01	-14.41	5.99	Pass
	9	2452	-18.77	3.01	-15.76	5.99	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional Gain = $5\text{dBi} + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8 - (8.01 - 6) = 5.99\text{ dBm}$.
3. Refer to section 2.1 for duty cycle spectrum plot.

**此測試圖僅放測試結果最差的頻道。



8.6 量測結果判定

依據測試數據結果，符合低功率射頻器材技術規範之要求。

U-NII 頻段測試紀錄結果

9 帶外發射之量測

9.1 適用標準

待測物操作頻帶	適用標準
☒ 5.15 GHz~5.25 GHz	請見本報告 3.1 節第 2 項(II)的規定
☒ 5.25 GHz~5.35 GHz	請見本報告 3.1 節第 2 項(II)的規定
☒ 5.470 GHz~5.725 GHz	請見本報告 3.1 節第 2 項(II)的規定
☒ 5.725 GHz~5.850 GHz	請見本報告 3.1 節第 2 項(III)的規定

9.2 量測方法

在電波暗室，將待測物置於0.8米高的非金屬桌面，使其操作在工作狀態。接收天線置於3米距離。桌面要360度旋轉，另外接收天線從離地1米至4米升降變化，以找出最大的輻射電場強度，接收天線分別置於水平、垂直極化各執行測試一次。

Note: 對於 1GHz 以上場強輻射的測試，待測物則置於1.5米高的非金屬桌面。

發射諧波：

Peak 為 RBW = 1 MHz, VBW = 3 MHz ;

Average

802.11a 為 RBW = 1 MHz, VBW = 1 kHz

802.11n (HT20) 為 RBW = 1 MHz, VBW = 1 kHz

802.11n (HT40) 為 RBW = 1 MHz, VBW = 3 kHz

802.11ac (VHT80) 為 RBW = 1 MHz, VBW = 10 kHz

接收諧波：

Below 1 GHz

Peak 為 RBW = 120 kHz, VBW = 360 kHz ; Quasi-Peak 為 RBW = 120 kHz, VBW = 120 kHz

Above 1 GHz:

Peak 為 RBW = 1 MHz, VBW = 3 MHz ; Average 為 RBW = 1 MHz, VBW = 3 MHz ; Detector: RMS ; Sweep time: Auto ; Trace count: trace average of at least 100 traces.

其它不必要之訊號

Peak 為 RBW = 120 kHz, VBW = 360 kHz ; Quasi-Peak 為 RBW = 120 kHz, VBW = 120 kHz

9.3 量測儀器

同4.3節。

9.4 測試配置

同4.4節。

9.5 場強度之計算

場強之計算公式如下：

結果值Emission level (dBuV/m)=機器讀值 Raw Value (dBuV) +校正因子Correction Factor (dB/m)

餘裕度Margin(dB)= 結果值Emission level (dBuV/m)-限制值Limit value (dBuV/m)

*有效等向輻射功率限制值轉換場強值如下：

Applicable To		Limit	
技術規範 5.7.4.6 節不必要發射頻率屬 3.5 節規定頻段者，應符合 3.6 節之規定		Field Strength at 3m	
		PK:74 (dBμV/m)	AV:54 (dBμV/m)
操作頻帶	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	技術規範 5.7.4.1 節	PK:-27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz	技術規範 5.7.4.1 節		
5470~5725 MHz	技術規範 5.7.4.1 節		
5725~5850 MHz	技術規範 5.7.4.2 節	PK:-27 (dBm/MHz) ^{*1} PK:10 (dBm/MHz) ^{*2} PK:15.6 (dBm/MHz) ^{*3} PK:27 (dBm/MHz) ^{*4}	PK: 68.2(dBμV/m) ^{*1} PK:105.2 (dBμV/m) ^{*2} PK: 110.8(dBμV/m) ^{*3} PK:122.2 (dBμV/m) ^{*4}
^{*1} beyond 75 MHz or more above of the band edge.		^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

Note:

有效等向輻射功率限制值轉換場強之公式如下：

$$E=(30PG)^{1/2}/d$$

E: 以最寬解析頻寬所測得之最大場強值，單位:V/m。

G: 發射天線相對於全向性輻射器之數值增益。

d: 測試場強的距離，單位: m。

P: 求得之功率，單位:W。

量測結果請見下頁。

9.6 量測結果

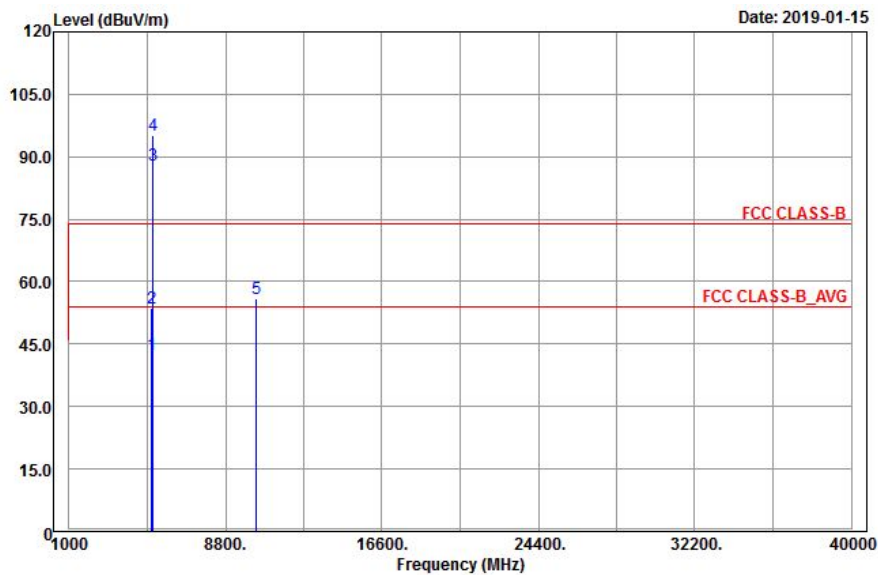
9.6.1 發射諧波

測試模式 A

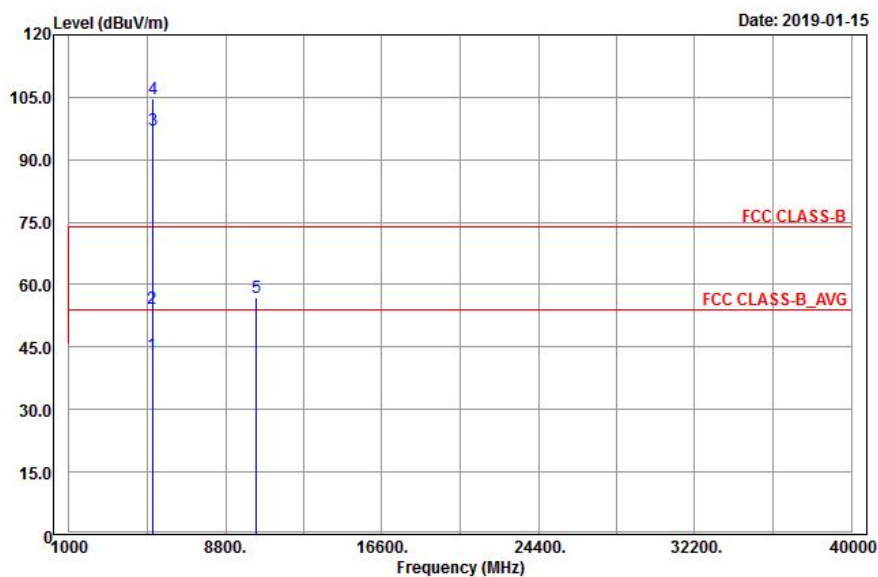
802.11a

EUT Test Condition		Measurement Detail	
Channel	Channel 36	Frequency Range	1 GHz ~ 40 GHz
Input Power	110 Vac, 60 Hz (System)	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical



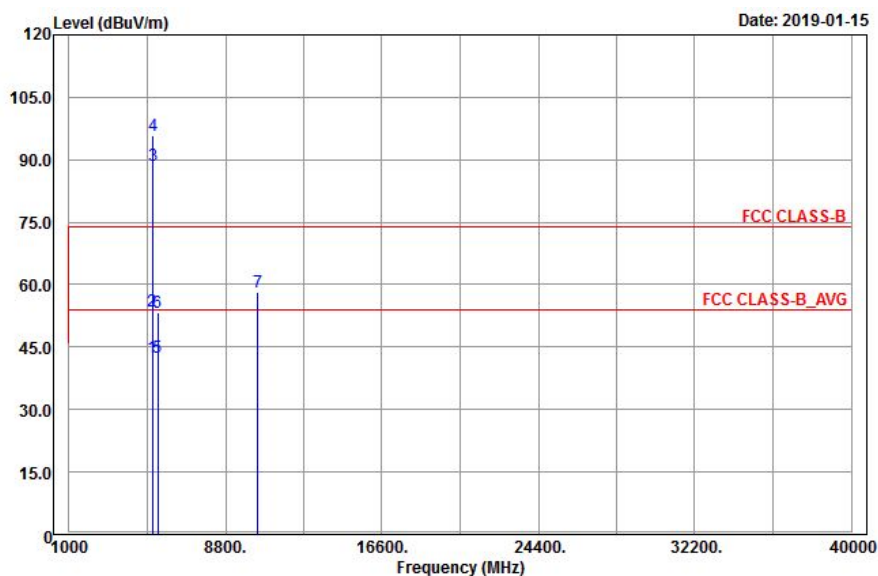
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5129.3	42.49	29.99	54	-11.51	34.11	8.1	29.71	218	307	Average
5129.3	53.57	41.07	74	-20.43	34.11	8.1	29.71	218	307	Peak
5180	88.06	75.47			34.15	8.16	29.72	218	307	Average
5180	95.11	82.52			34.15	8.16	29.72	218	307	Peak
*10360	56.01	38.74	68.2	-12.19	37.12	12.3	32.15	125	300	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
5149.7	43.15	30.61	54	-10.85	34.12	8.13	29.71	189	67	Average
5149.7	54.14	41.6	74	-19.86	34.12	8.13	29.71	189	67	Peak
5180	97.1	84.51			34.15	8.16	29.72	189	67	Average
5180	104.72	92.13			34.15	8.16	29.72	189	67	Peak
*10360	56.98	39.71	68.2	-11.22	37.12	12.3	32.15	124	112	Peak

Remarks:

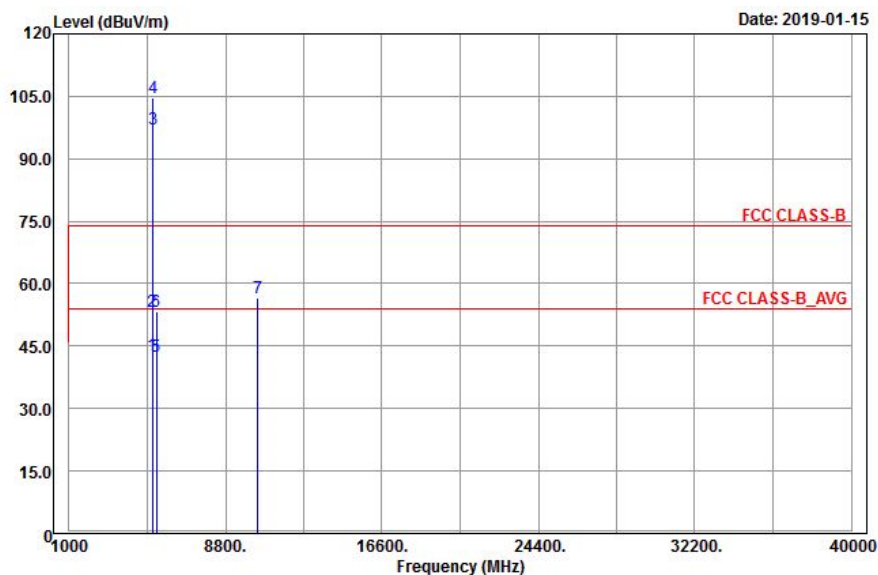
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level – Limit value
2. 5180 MHz: Fundamental Frequency
3. *: Out of Restricted Band
4. The other emission levels were very low against the limit.

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

Horizontal



Vertical



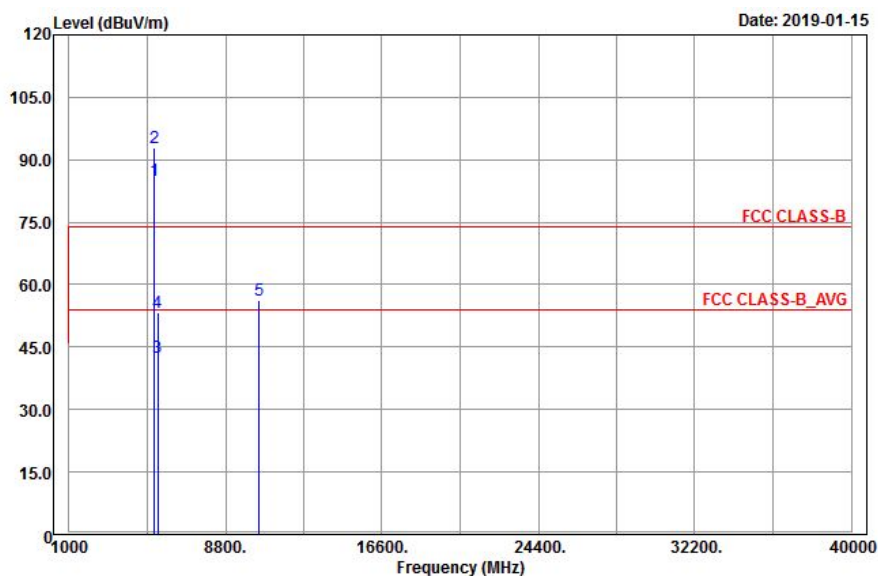
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5146.1	42.38	29.84	54	-11.62	34.12	8.13	29.71	218	307	Average
5146.1	53.7	41.16	74	-20.3	34.12	8.13	29.71	218	307	Peak
5200	88.51	75.88			34.16	8.19	29.72	218	307	Average
5200	95.78	83.15			34.16	8.19	29.72	218	307	Peak
5437.89	42.45	29.37	54	-11.55	34.35	8.48	29.75	218	307	Average
5437.89	53.18	40.1	74	-20.82	34.35	8.48	29.75	218	307	Peak
*10400	58.12	40.81	68.2	-10.08	37.14	12.36	32.19	105	114	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
5142.65	42.93	30.39	54	-11.07	34.12	8.13	29.71	189	67	Average
5142.65	53.3	40.76	74	-20.7	34.12	8.13	29.71	189	67	Peak
5200	97.15	84.52			34.16	8.19	29.72	189	67	Average
5200	104.72	92.09			34.16	8.19	29.72	189	67	Peak
5368.59	42.57	29.61	54	-11.43	34.29	8.41	29.74	189	67	Average
5368.59	53.23	40.27	74	-20.77	34.29	8.41	29.74	189	67	Peak
*10400	56.61	39.3	68.2	-11.59	37.14	12.36	32.19	110	4	Peak

Remarks:

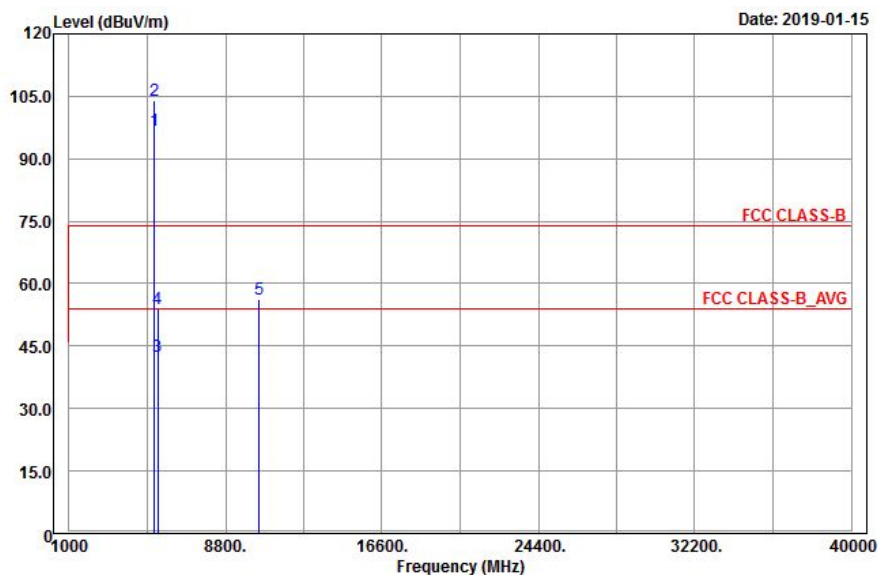
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level – Limit value
2. 5200 MHz: Fundamental Frequency
3. *: Out of Restricted Band
4. The other emission levels were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 48	Frequency Range	1 GHz ~ 40 GHz
Input Power	110 Vac, 60 Hz (System)	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical



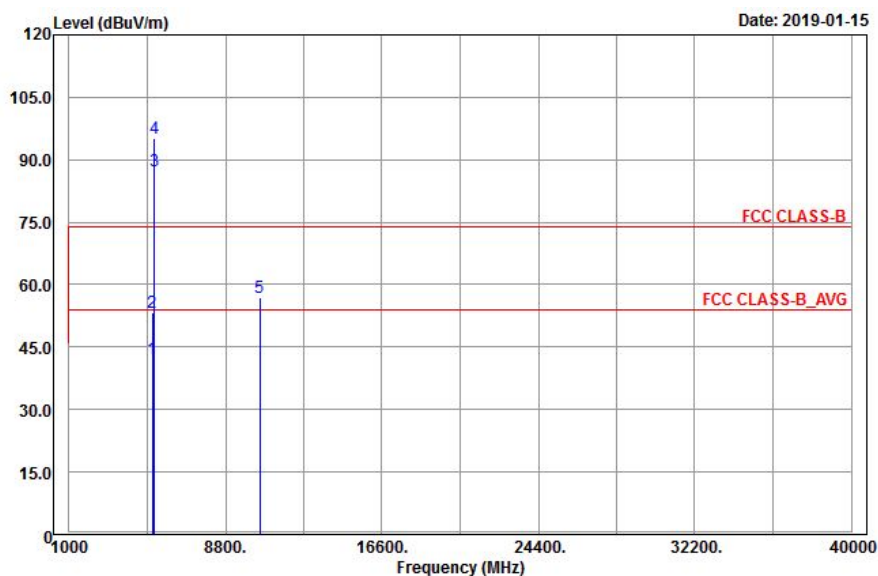
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5240	85.12	72.39			34.19	8.26	29.72	218	307	Average
5240	92.99	80.26			34.19	8.26	29.72	218	307	Peak
5434.81	42.35	29.27	54	-11.65	34.35	8.48	29.75	218	307	Average
5434.81	53.36	40.28	74	-20.64	34.35	8.48	29.75	218	307	Peak
*10480	56.16	38.69	68.2	-12.04	37.19	12.53	32.25	116	264	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	96.63	83.9			34.19	8.26	29.72	189	67	Average
5240	104.14	91.41			34.19	8.26	29.72	189	67	Peak
5439.65	42.52	29.44	54	-11.48	34.35	8.48	29.75	189	67	Average
5439.65	53.97	40.89	74	-20.03	34.35	8.48	29.75	189	67	Peak
*10480	56.12	38.65	68.2	-12.08	37.19	12.53	32.25	115	319	Peak

Remarks:

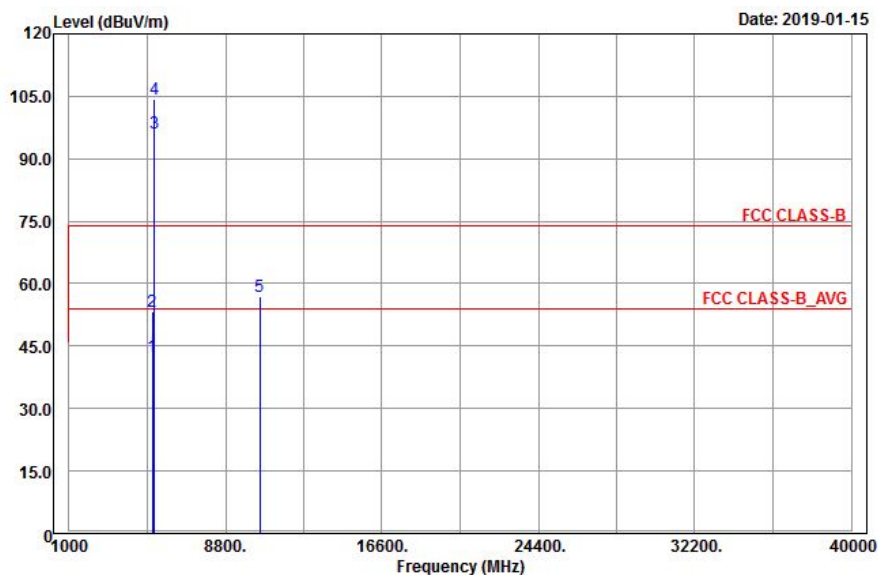
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level – Limit value
2. 5240 MHz: Fundamental Frequency
3. *: Out of Restricted Band
4. The other emission levels were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 52	Frequency Range	1 GHz ~ 40 GHz
Input Power	110 Vac, 60 Hz (System)	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical



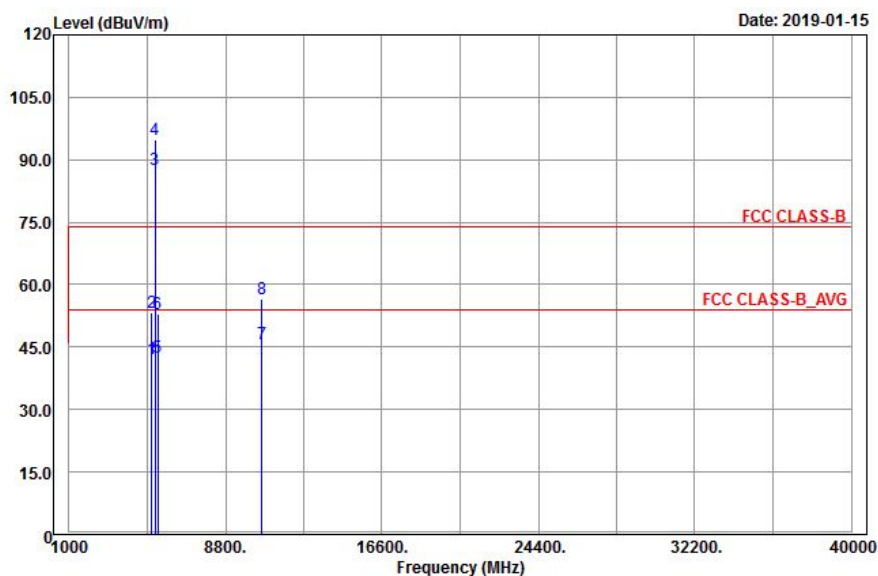
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5147.6	42.27	29.73	54	-11.73	34.12	8.13	29.71	203	307	Average
5147.6	53.34	40.8	74	-20.66	34.12	8.13	29.71	203	307	Peak
5260	87.45	74.71			34.21	8.26	29.73	203	307	Average
5260	95.01	82.27			34.21	8.26	29.73	203	307	Peak
*10520	56.81	39.26	68.2	-11.39	37.21	12.61	32.27	181	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
5141.6	42.54	30	54	-11.46	34.12	8.13	29.71	200	245	Average
5141.6	53.4	40.86	74	-20.6	34.12	8.13	29.71	200	245	Peak
5260	96.17	83.43			34.21	8.26	29.73	200	245	Average
5260	104.23	91.49			34.21	8.26	29.73	200	245	Peak
*10520	57.01	39.46	68.2	-11.19	37.21	12.61	32.27	124	260	Peak

Remarks:

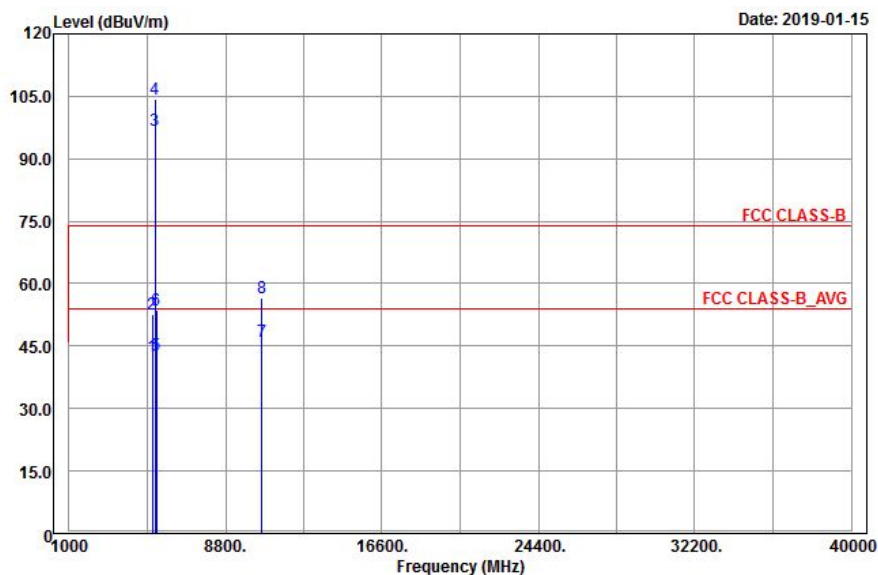
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level – Limit value
2. 5260 MHz: Fundamental Frequency
3. *: Out of Restricted Band
4. The other emission levels were very low against the limit.

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

Horizontal



Vertical



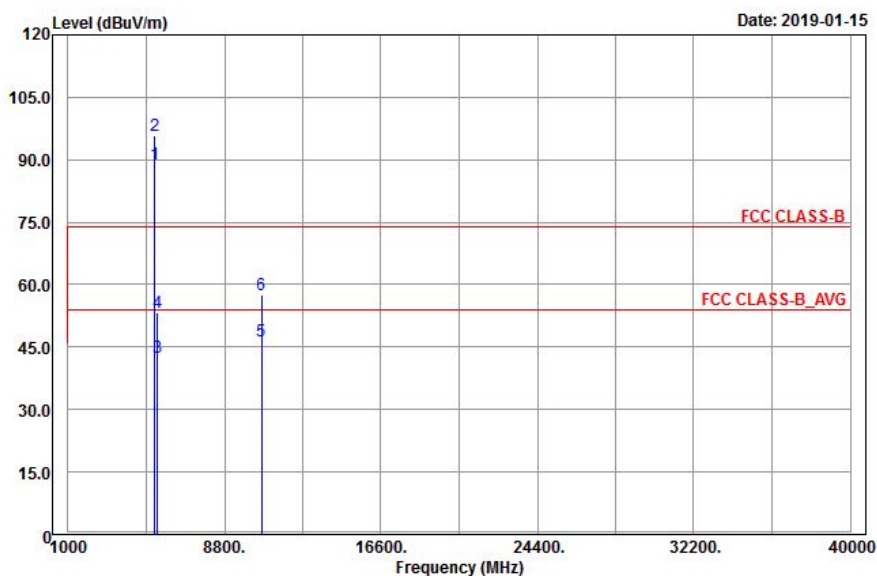
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5108.6	42.3	29.81	54	-11.7	34.09	8.1	29.7	203	307	Average
5108.6	53.18	40.69	74	-20.82	34.09	8.1	29.7	203	307	Peak
5300	87.54	74.71			34.24	8.32	29.73	203	307	Average
5300	94.8	81.97			34.24	8.32	29.73	203	307	Peak
5430.63	42.44	29.36	54	-11.56	34.35	8.48	29.75	203	307	Average
5430.63	52.88	39.8	74	-21.12	34.35	8.48	29.75	203	307	Peak
10600	45.94	28.25	54	-8.06	37.28	12.67	32.26	124	221	Average
10600	56.67	38.98	74	-17.33	37.28	12.67	32.26	124	221	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
5137.55	42.52	29.99	54	-11.48	34.11	8.13	29.71	200	245	Average
5137.55	52.77	40.24	74	-21.23	34.11	8.13	29.71	200	245	Peak
5300	96.72	83.89			34.24	8.32	29.73	200	245	Average
5300	104.46	91.63			34.24	8.32	29.73	200	245	Peak
5373.1	42.75	29.79	54	-11.25	34.29	8.41	29.74	200	245	Average
5373.1	53.74	40.78	74	-20.26	34.29	8.41	29.74	200	245	Peak
10600	46.05	28.36	54	-7.95	37.28	12.67	32.26	124	195	Average
10600	56.68	38.99	74	-17.32	37.28	12.67	32.26	124	195	Peak

Remarks:

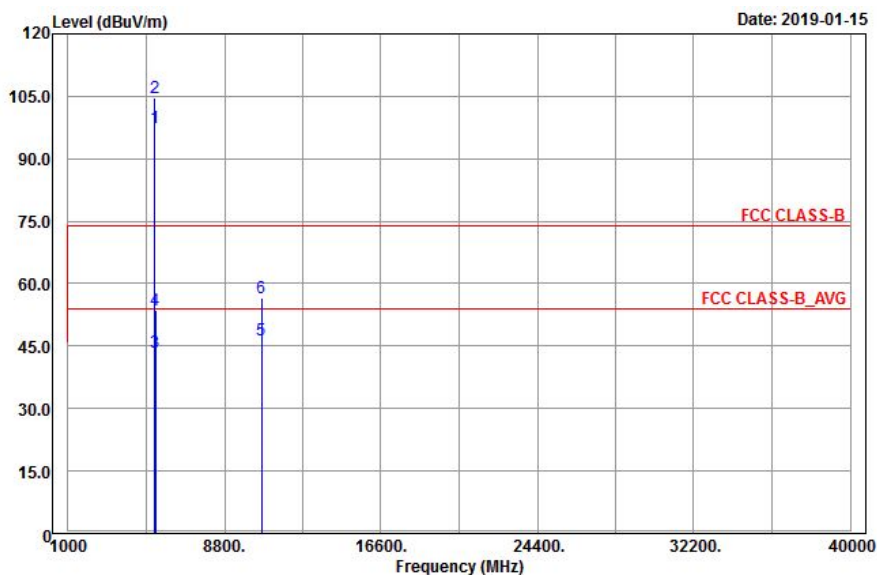
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level – Limit value
2. 5300 MHz: Fundamental Frequency
3. *: Out of Restricted Band
4. The other emission levels were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 64	Frequency Range	1 GHz ~ 40 GHz
Input Power	110 Vac, 60 Hz (System)	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical



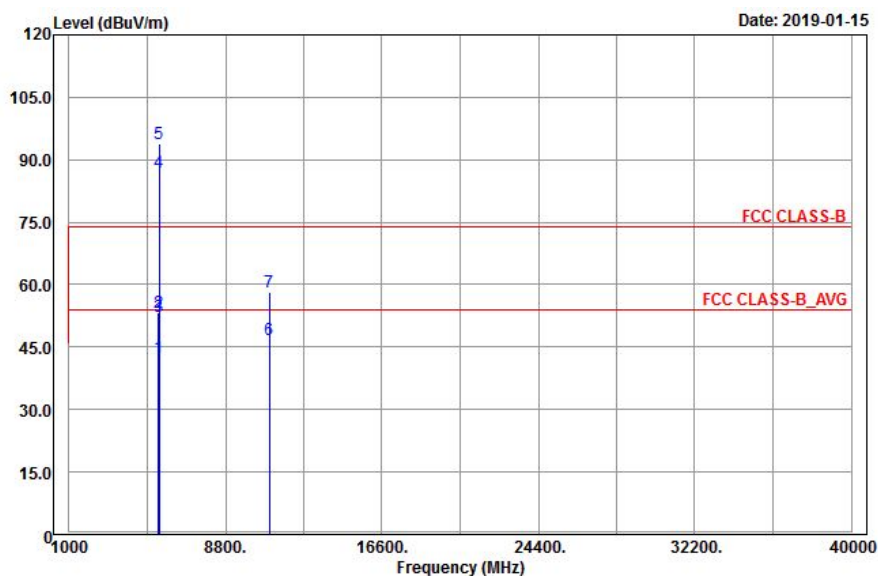
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5320	88.87	76			34.25	8.35	29.73	203	307	Average
5320	95.72	82.85			34.25	8.35	29.73	203	307	Peak
5444.49	42.51	29.43	54	-11.49	34.35	8.48	29.75	203	307	Average
5444.49	53.14	40.06	74	-20.86	34.35	8.48	29.75	203	307	Peak
10640	46.33	28.57	54	-7.67	37.31	12.71	32.26	124	15	Average
10640	57.57	39.81	74	-16.43	37.31	12.71	32.26	124	15	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	97.51	84.64			34.25	8.35	29.73	200	245	Average
5320	104.61	91.74			34.25	8.35	29.73	200	245	Peak
5350.11	43.34	30.42	54	-10.66	34.28	8.38	29.74	200	245	Average
5350.11	53.62	40.7	74	-20.38	34.28	8.38	29.74	200	245	Peak
10640	46.29	28.53	54	-7.71	37.31	12.71	32.26	175	310	Average
10640	56.67	38.91	74	-17.33	37.31	12.71	32.26	175	310	Peak

Remarks:

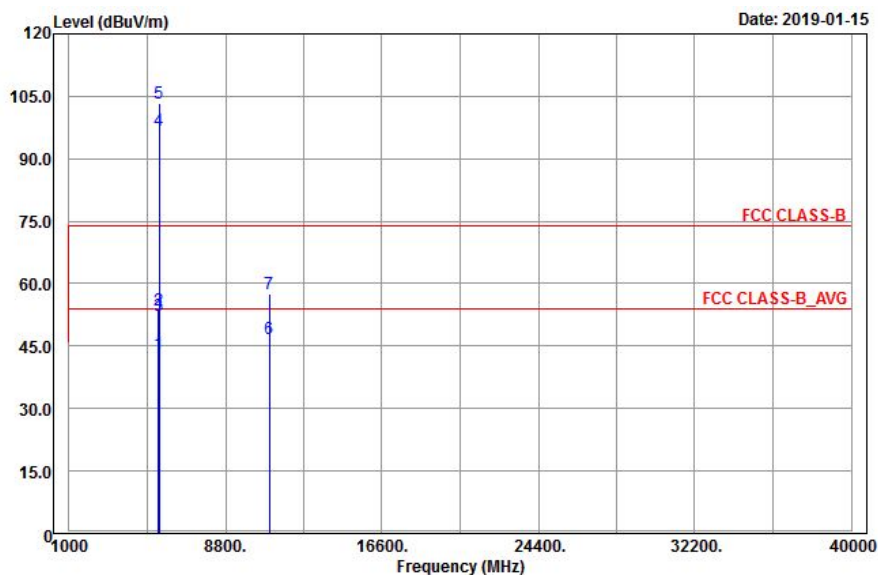
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level – Limit value
2. 5320 MHz: Fundamental Frequency
3. *: Out of Restricted Band
4. The other emission levels were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 100	Frequency Range	1 GHz ~ 40 GHz
Input Power	110 Vac, 60 Hz (System)	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical



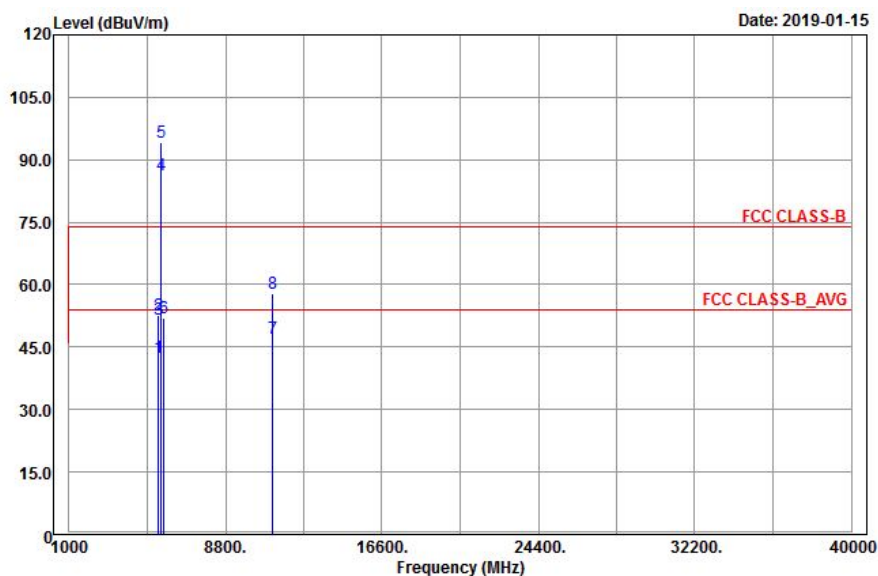
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5454.64	42.48	29.37	54	-11.52	34.36	8.51	29.76	218	346	Average
5454.64	53.29	40.18	74	-20.71	34.36	8.51	29.76	218	346	Peak
*5469.84	52.16	39.04	68.2	-16.04	34.37	8.51	29.76	218	346	Peak
5500	86.94	73.73			34.4	8.57	29.76	218	346	Average
5500	93.97	80.76			34.4	8.57	29.76	218	346	Peak
11000	46.88	28.55	54	-7.12	37.6	12.96	32.23	124	240	Average
11000	58.34	40.01	74	-15.66	37.6	12.96	32.23	124	240	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
5458.48	43.11	30	54	-10.89	34.36	8.51	29.76	194	199	Average
5458.48	53.57	40.46	74	-20.43	34.36	8.51	29.76	194	199	Peak
*5468.4	52.33	39.21	68.2	-15.87	34.37	8.51	29.76	194	199	Peak
5500	96.68	83.47			34.4	8.57	29.76	194	199	Average
5500	103.18	89.97			34.4	8.57	29.76	194	199	Peak
11000	46.9	28.57	54	-7.1	37.6	12.96	32.23	125	226	Average
11000	57.67	39.34	74	-16.33	37.6	12.96	32.23	125	226	Peak

Remarks:

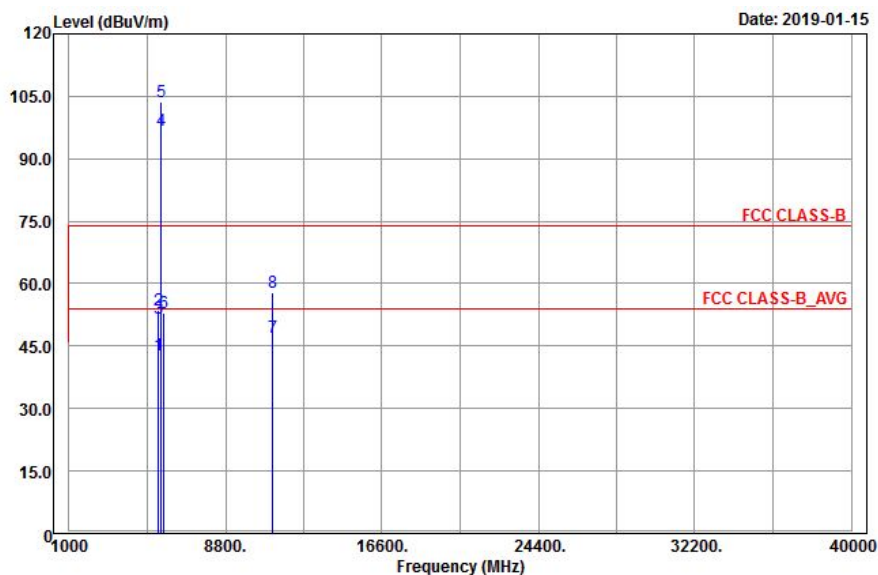
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level – Limit value
2. 5500 MHz: Fundamental Frequency
3. *: Out of Restricted Band
4. The other emission levels were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 116	Frequency Range	1 GHz ~ 40 GHz
Input Power	110 Vac, 60 Hz (System)	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical



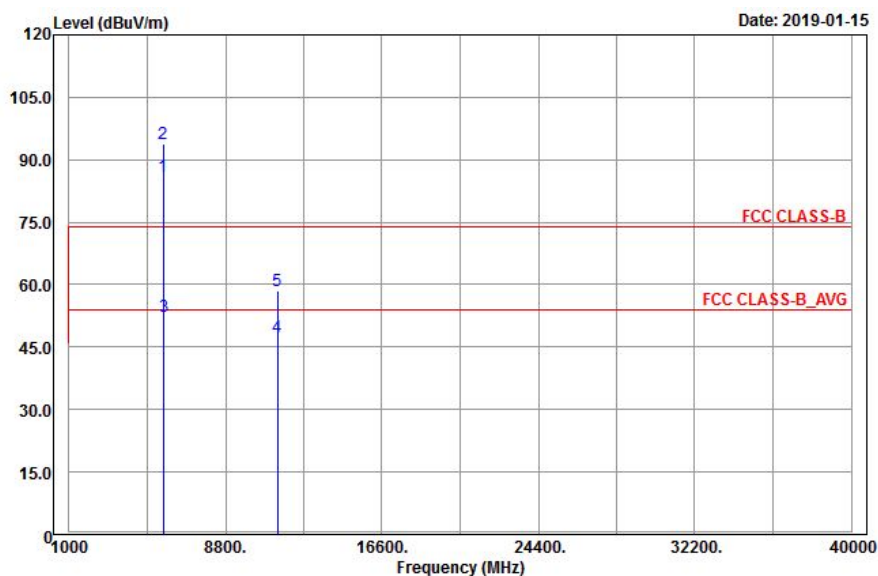
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5453.36	42.46	29.35	54	-11.54	34.36	8.51	29.76	218	346	Average
5453.36	52.76	39.65	74	-21.24	34.36	8.51	29.76	218	346	Peak
*5468.88	51.79	38.67	68.2	-16.41	34.37	8.51	29.76	218	346	Peak
5580	86.43	73.17			34.47	8.6	29.81	218	346	Average
5580	94.21	80.95			34.47	8.6	29.81	218	346	Peak
*5725.56	52.13	38.72	68.2	-16.07	34.62	8.65	29.86	218	346	Peak
11160	46.94	28.59	54	-7.06	37.7	12.83	32.18	127	179	Average
11160	57.72	39.37	74	-16.28	37.7	12.83	32.18	127	179	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	42.73	29.62	54	-11.27	34.36	8.51	29.76	194	199	Average
5458.64	53.76	40.65	74	-20.24	34.36	8.51	29.76	194	199	Peak
*5470	51.7	38.58	68.2	-16.5	34.37	8.51	29.76	194	199	Peak
5580	96.7	83.44			34.47	8.6	29.81	194	199	Average
5580	103.63	90.37			34.47	8.6	29.81	194	199	Peak
*5725.84	52.99	39.58	68.2	-15.21	34.62	8.65	29.86	194	199	Peak
11160	47.1	28.75	54	-6.9	37.7	12.83	32.18	124	113	Average
11160	57.8	39.45	74	-16.2	37.7	12.83	32.18	124	113	Peak

Remarks:

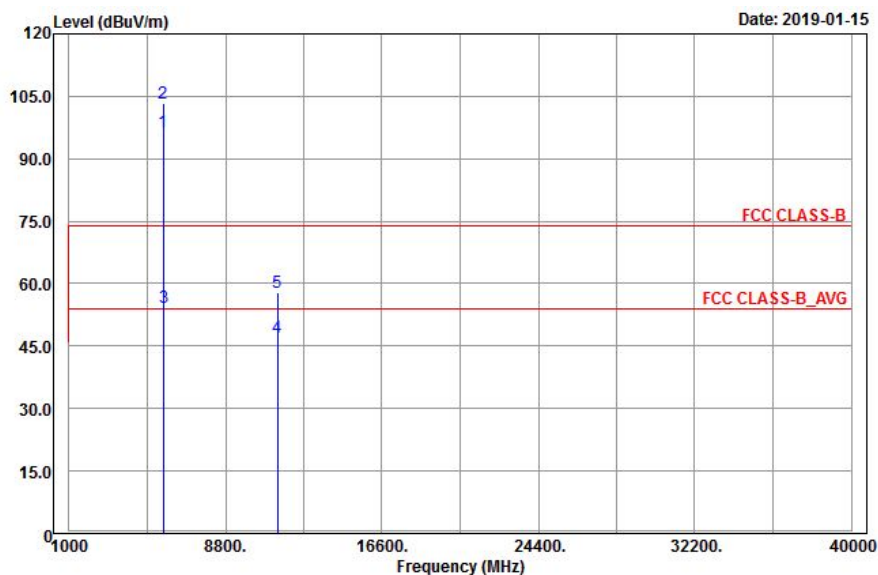
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level – Limit value
2. 5580 MHz: Fundamental Frequency
3. *: Out of Restricted Band
4. The other emission levels were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 140	Frequency Range	1 GHz ~ 40 GHz
Input Power	110 Vac, 60 Hz (System)	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical



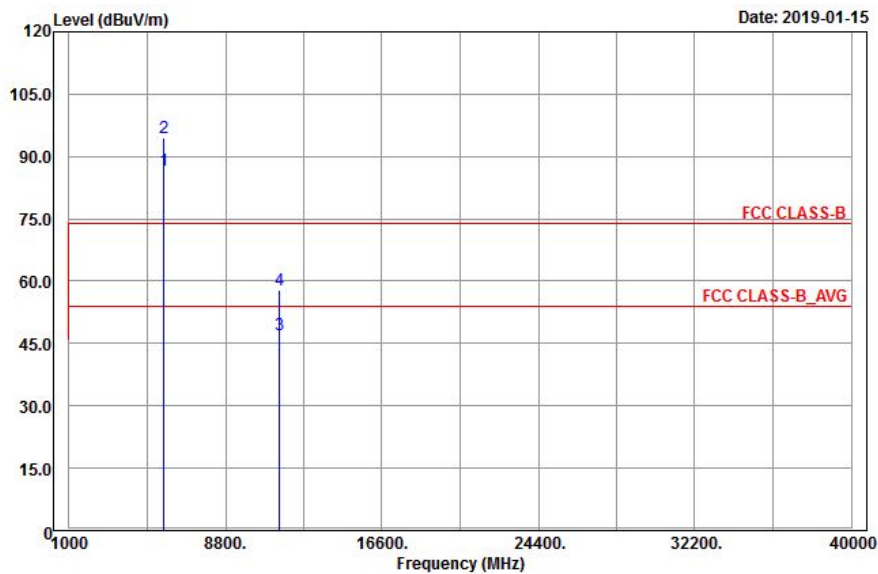
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5700	86.06	72.68			34.59	8.64	29.85	218	346	Average
5700	93.84	80.46			34.59	8.64	29.85	218	346	Peak
*5725.2	52.37	38.96	68.2	-15.83	34.62	8.65	29.86	218	346	Peak
11400	47.3	28.88	54	-6.7	37.84	12.67	32.09	135	266	Average
11400	58.59	40.17	74	-15.41	37.84	12.67	32.09	135	266	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	96.37	82.99			34.59	8.64	29.85	194	199	Average
5700	103.36	89.98			34.59	8.64	29.85	194	199	Peak
*5725.96	54.16	40.75	68.2	-14.04	34.62	8.65	29.86	194	199	Peak
11400	47.01	28.59	54	-6.99	37.84	12.67	32.09	184	288	Average
11400	57.83	39.41	74	-16.17	37.84	12.67	32.09	184	288	Peak

Remarks:

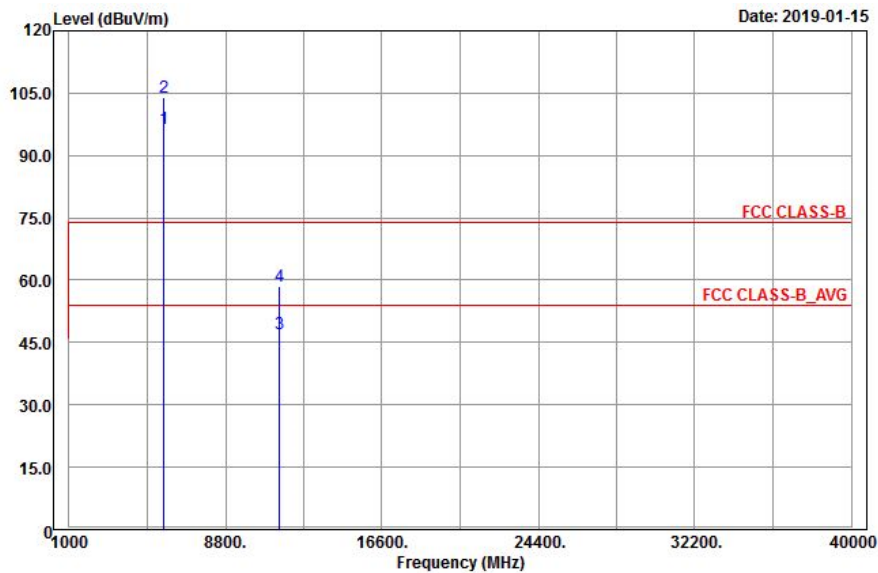
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level – Limit value
2. 5700 MHz: Fundamental Frequency
3. *: Out of Restricted Band
4. The other emission levels were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 149	Frequency Range	1 GHz ~ 40 GHz
Input Power	110 Vac, 60 Hz (System)	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

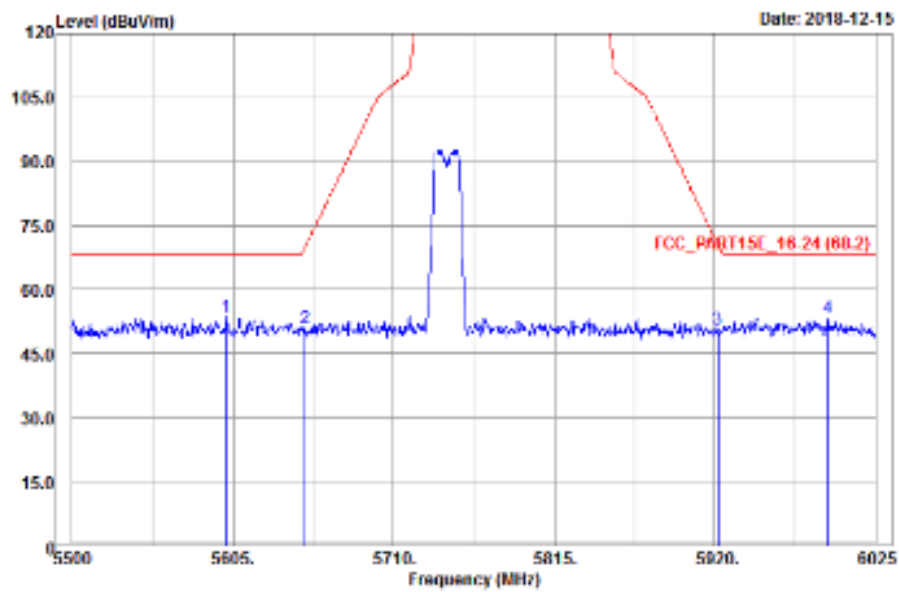
<Spurious Emission> Horizontal



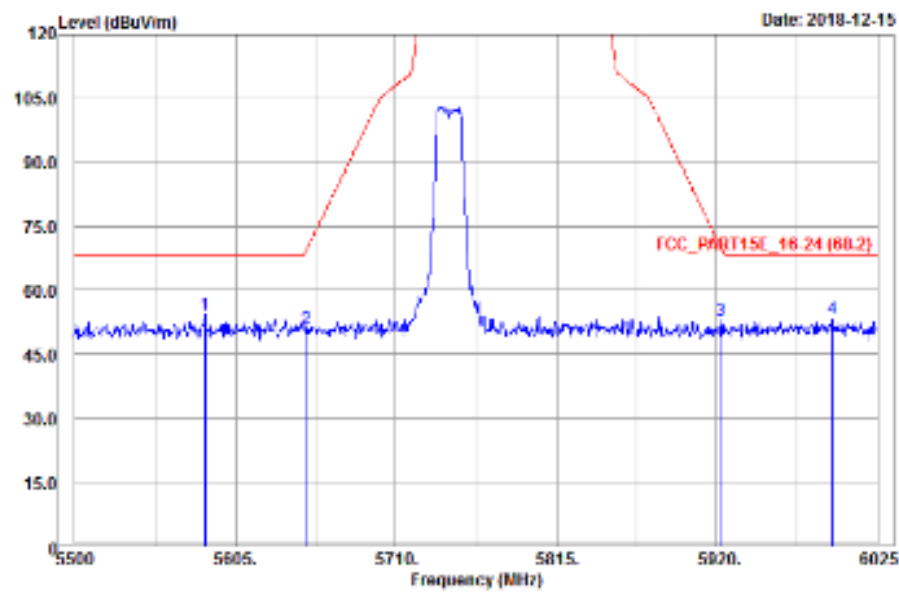
Vertical



<Out of Band Emission (OOBE)> Horizontal



Vertical



<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	86.6	73.18			34.64	8.66	29.88	218	346	Average
5745	94.51	81.09			34.64	8.66	29.88	218	346	Peak
11490	47.09	28.65	54	-6.91	37.89	12.62	32.07	119	32	Average
11490	57.93	39.49	74	-16.07	37.89	12.62	32.07	119	32	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	96.51	83.09			34.64	8.66	29.88	194	199	Average
5745	103.89	90.47			34.64	8.66	29.88	194	199	Peak
11490	47.03	28.59	54	-6.97	37.89	12.62	32.07	136	55	Average
11490	58.4	39.96	74	-15.6	37.89	12.62	32.07	136	55	Peak

<Out of Band Emission (OOBE)>

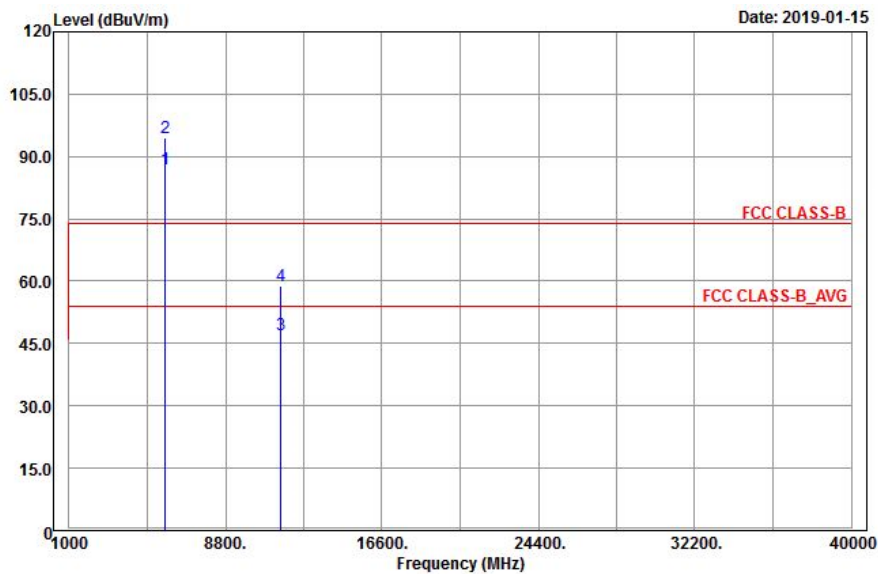
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5600.8	53.62	40.32	68.2	-14.58	34.5	8.61	29.81	218	346	Peak
5652.25	50.95	37.6	69.86	-18.91	34.56	8.62	29.83	218	346	Peak
5922.1	50.69	37.09	70.35	-19.66	34.83	8.73	29.96	218	346	Peak
*5993.5	53.17	39.5	68.2	-15.03	34.9	8.76	29.99	218	346	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
*5585.05	54.4	41.12	68.2	-13.8	34.49	8.6	29.81	194	199	Peak
5651.725	51.14	37.79	69.48	-18.34	34.56	8.62	29.83	194	199	Peak
5923.15	52.95	39.35	69.57	-16.62	34.83	8.73	29.96	194	199	Peak
*5995.6	53.45	39.78	68.2	-14.75	34.9	8.76	29.99	194	199	Peak

Remarks:

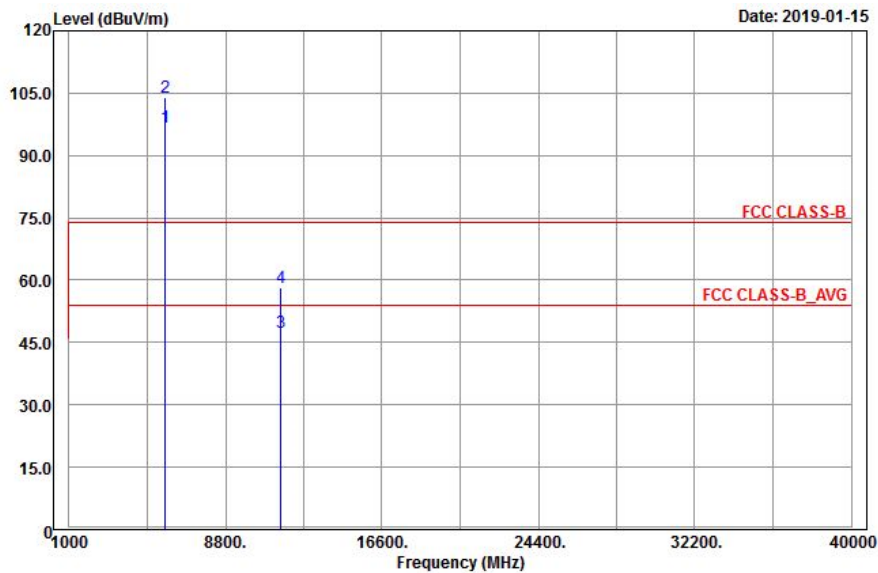
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
2. 5745 MHz: Fundamental Frequency
3. *: Out of Restricted Band
4. The emission levels of other frequencies were very low against the limit

EUT Test Condition		Measurement Detail	
Channel	Channel 157	Frequency Range	1 GHz ~ 40 GHz
Input Power	110 Vac, 60 Hz (System)	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

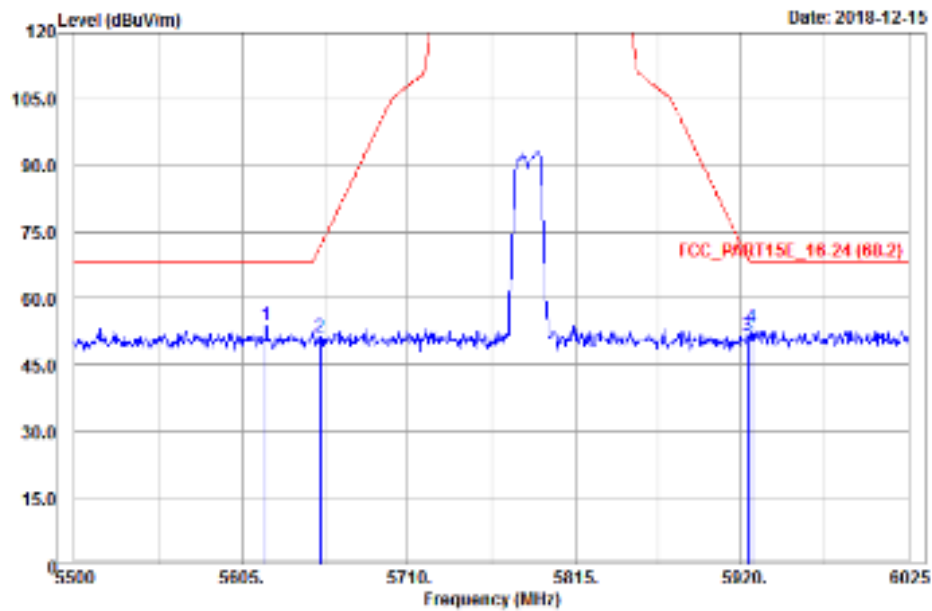
<Spurious Emission> Horizontal



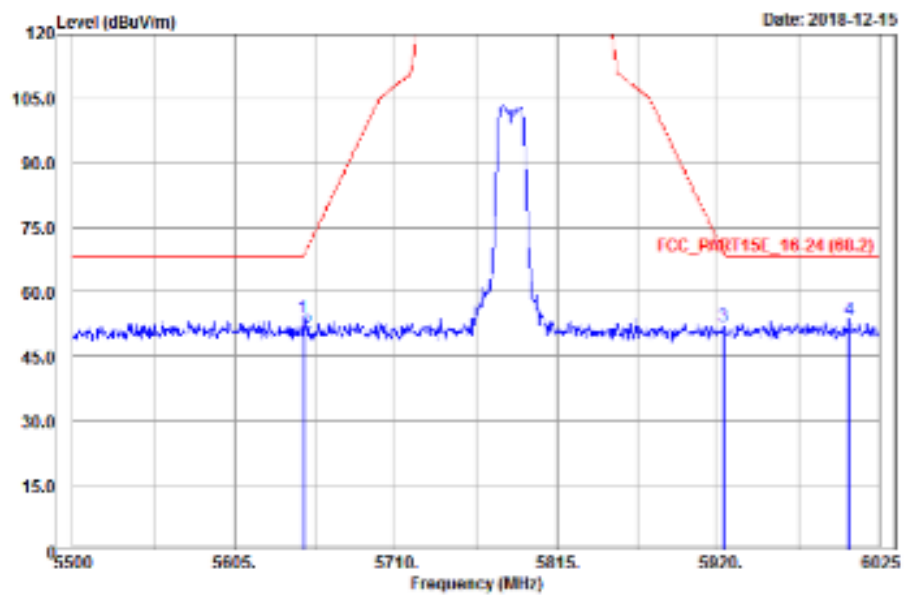
Vertical



<Out of Band Emission (OOBE)> Horizontal



Vertical



<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	86.91	73.45			34.68	8.68	29.9	218	346	Average
5785	94.59	81.13			34.68	8.68	29.9	218	346	Peak
11570	47.2	28.57	54	-6.8	38	12.68	32.05	124	200	Average
11570	58.83	40.2	74	-15.17	38	12.68	32.05	124	200	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	96.68	83.22			34.68	8.68	29.9	194	199	Average
5785	104.12	90.66			34.68	8.68	29.9	194	199	Peak
11570	47.52	28.89	54	-6.48	38	12.68	32.05	124	305	Average
11570	58.3	39.67	74	-15.7	38	12.68	32.05	124	305	Peak

<Out of Band Emission (OOBE)>

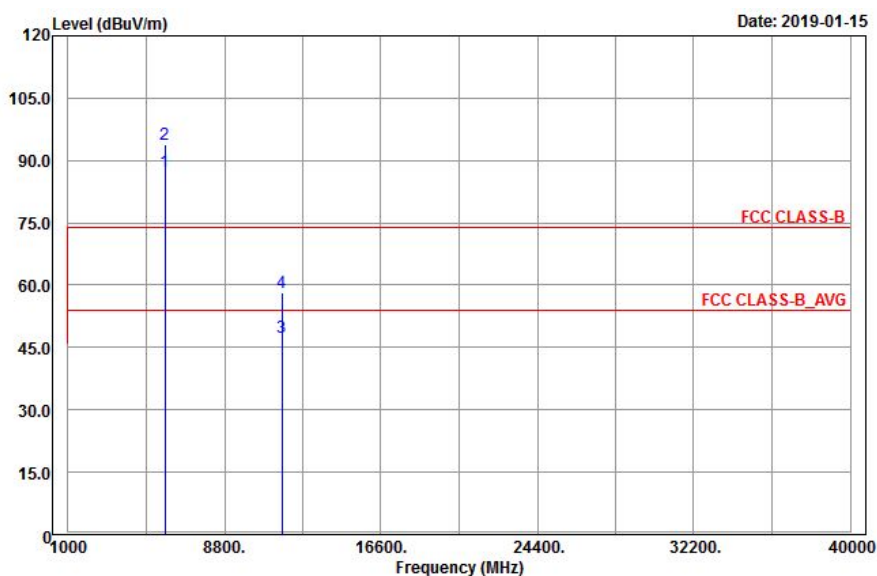
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
*5620.225	54.03	40.72	68.2	-14.17	34.52	8.61	29.82	218	346	Peak
5654.35	51.46	38.11	71.42	-19.96	34.56	8.63	29.84	218	346	Peak
5923.675	51.77	38.17	69.18	-17.41	34.83	8.73	29.96	218	346	Peak
*5926.825	53.51	39.91	68.2	-14.69	34.83	8.73	29.96	218	346	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
*5650.15	53.95	40.6	68.31	-14.36	34.56	8.62	29.83	194	199	Peak
5652.25	50.83	37.48	69.86	-19.03	34.56	8.62	29.83	194	199	Peak
5923.675	51.84	38.24	69.18	-17.34	34.83	8.73	29.96	194	199	Peak
*6005.575	53.48	39.81	68.2	-14.72	34.9	8.76	29.99	194	199	Peak

Remarks:

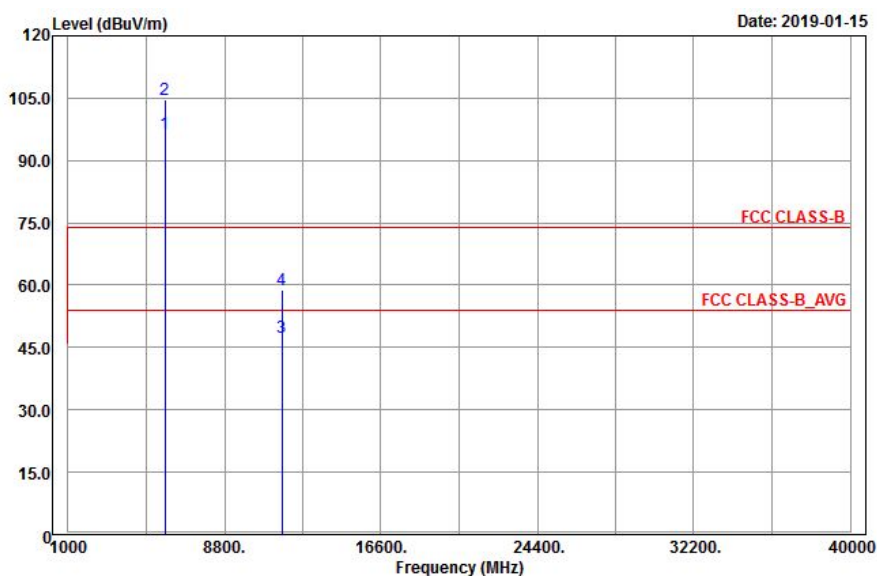
- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5785 MHz: Fundamental Frequency
- *: Out of Restricted Band
- The emission levels of other frequencies were very low against the limit

EUT Test Condition		Measurement Detail	
Channel	Channel 165	Frequency Range	1 GHz ~ 40 GHz
Input Power	110 Vac, 60 Hz (System)	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

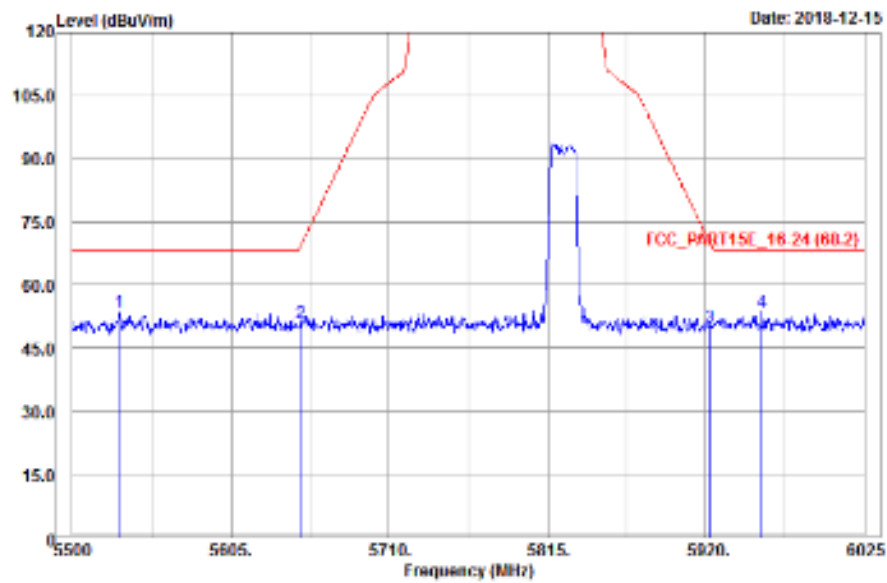
<Spurious Emission> Horizontal



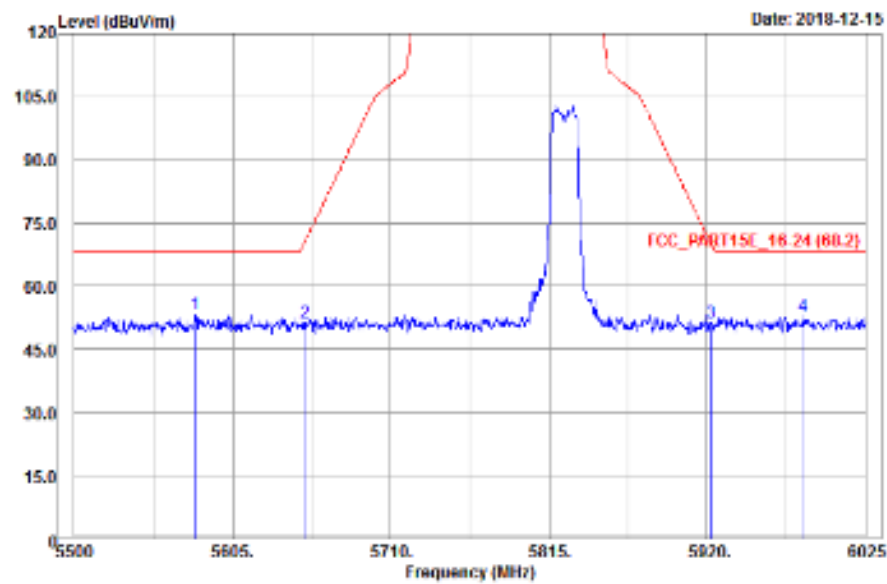
Vertical



<Out of Band Emission (OOBE)> Horizontal



Vertical



<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	87.24	73.73			34.73	8.69	29.91	218	346	Average
5825	93.99	80.48			34.73	8.69	29.91	218	346	Peak
11650	47.36	28.5	54	-6.64	38.09	12.8	32.03	185	29	Average
11650	58.19	39.33	74	-15.81	38.09	12.8	32.03	185	29	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	96.52	83.01			34.73	8.69	29.91	194	199	Average
5825	104.47	90.96			34.73	8.69	29.91	194	199	Peak
11650	47.3	28.44	54	-6.7	38.09	12.8	32.03	134	322	Average
11650	58.81	39.95	74	-15.19	38.09	12.8	32.03	134	322	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
*5530.975	53.51	40.28	68.2	-14.69	34.43	8.58	29.78	218	346	Peak
5651.725	51.05	37.7	69.48	-18.43	34.56	8.62	29.83	218	346	Peak
5922.625	50.05	36.45	69.96	-19.91	34.83	8.73	29.96	218	346	Peak
*5957.275	53.47	39.83	68.2	-14.73	34.87	8.74	29.97	218	346	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
*5580.325	53.42	40.16	68.2	-14.78	34.47	8.6	29.81	194	199	Peak
5653.825	51.27	37.92	71.03	-19.76	34.56	8.63	29.84	194	199	Peak
5922.625	51.46	37.86	69.96	-18.5	34.83	8.73	29.96	194	199	Peak
*5984.05	52.91	39.26	68.2	-15.29	34.88	8.75	29.98	194	199	Peak

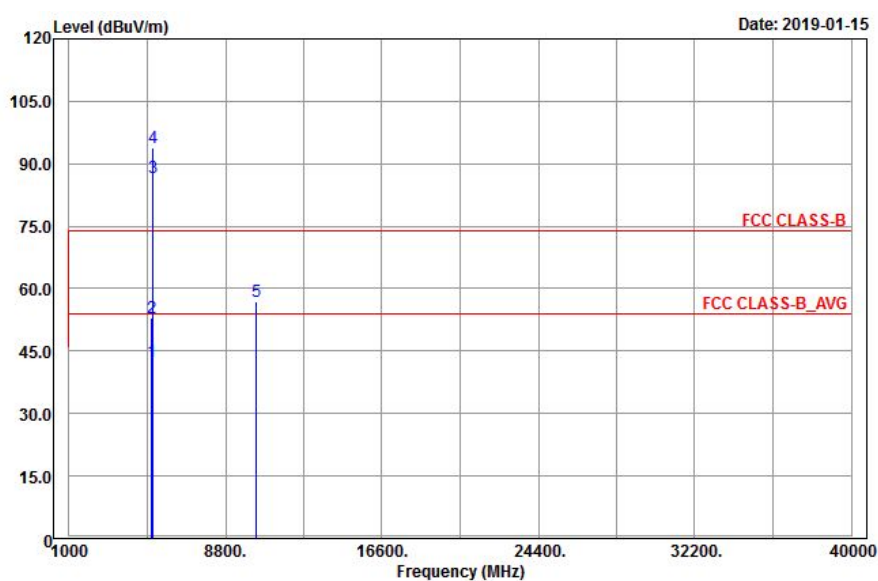
Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 5825 MHz: Fundamental Frequency
- *: Out of Restricted Band
- The emission levels of other frequencies were very low against the limit

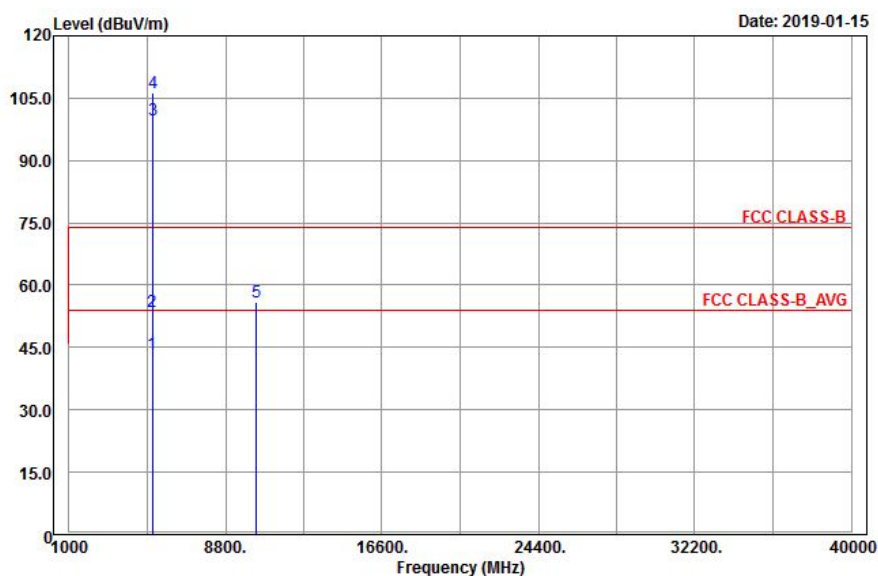
802.11n (HT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 36	Frequency Range	1 GHz ~ 40 GHz
Input Power	110 Vac, 60 Hz (System)	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical



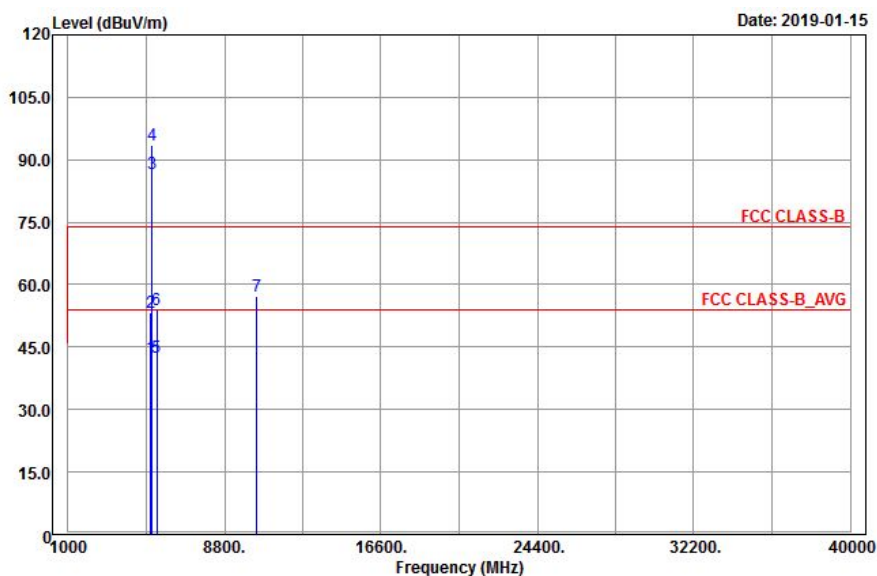
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5113.85	42.54	30.05	54	-11.46	34.09	8.1	29.7	219	48	Average
5113.85	53	40.51	74	-21	34.09	8.1	29.7	219	48	Peak
5180	86.54	73.95			34.15	8.16	29.72	219	48	Average
5180	93.76	81.17			34.15	8.16	29.72	219	48	Peak
*10360	56.8	39.53	68.2	-11.4	37.12	12.3	32.15	185	222	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
5149.55	43.33	30.79	54	-10.67	34.12	8.13	29.71	213	304	Average
5149.55	53.5	40.96	74	-20.5	34.12	8.13	29.71	213	304	Peak
5180	99.65	87.06			34.15	8.16	29.72	213	304	Average
5180	106.15	93.56			34.15	8.16	29.72	213	304	Peak
*10360	56.03	38.76	68.2	-12.17	37.12	12.3	32.15	112	300	Peak

Remarks:

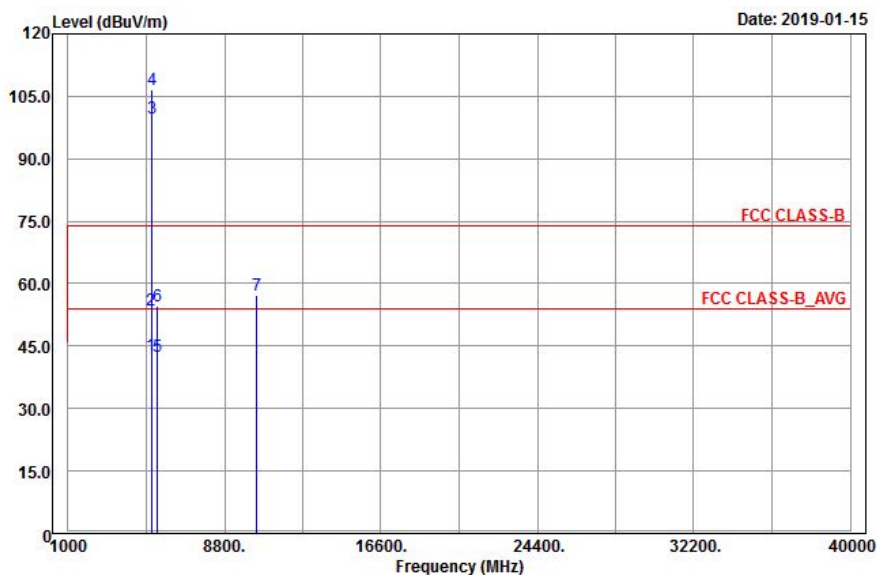
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level – Limit value
2. 5180 MHz: Fundamental Frequency
3. *: Out of Restricted Band
4. The other emission levels were very low against the limit.

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

Horizontal



Vertical



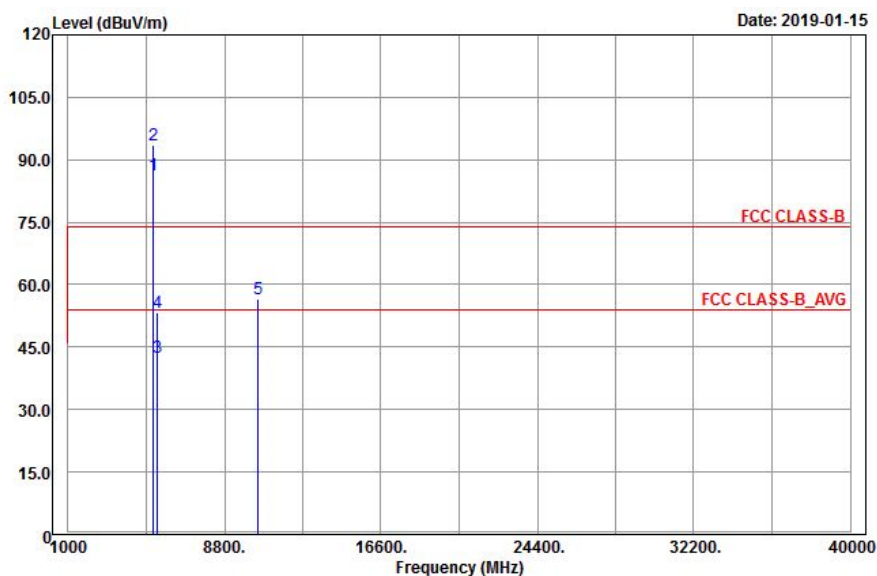
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5129.75	42.45	29.95	54	-11.55	34.11	8.1	29.71	219	48	Average
5129.75	53.2	40.7	74	-20.8	34.11	8.1	29.71	219	48	Peak
5200	86.53	73.9			34.16	8.19	29.72	219	48	Average
5200	93.67	81.04			34.16	8.19	29.72	219	48	Peak
5441.08	42.59	29.51	54	-11.41	34.35	8.48	29.75	219	48	Average
5441.08	53.8	40.72	74	-20.2	34.35	8.48	29.75	219	48	Peak
*10400	57.18	39.87	68.2	-11.02	37.14	12.36	32.19	182	155	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5150	42.9	30.36	54	-11.1	34.12	8.13	29.71	213	304	Average
5150	53.63	41.09	74	-20.37	34.12	8.13	29.71	213	304	Peak
5200	99.76	87.13			34.16	8.19	29.72	213	304	Average
5200	106.58	93.95			34.16	8.19	29.72	213	304	Peak
5455.93	42.66	29.55	54	-11.34	34.36	8.51	29.76	213	304	Average
5455.93	54.56	41.45	74	-19.44	34.36	8.51	29.76	213	304	Peak
*10400	57.33	40.02	68.2	-10.87	37.14	12.36	32.19	114	246	Peak

Remarks:

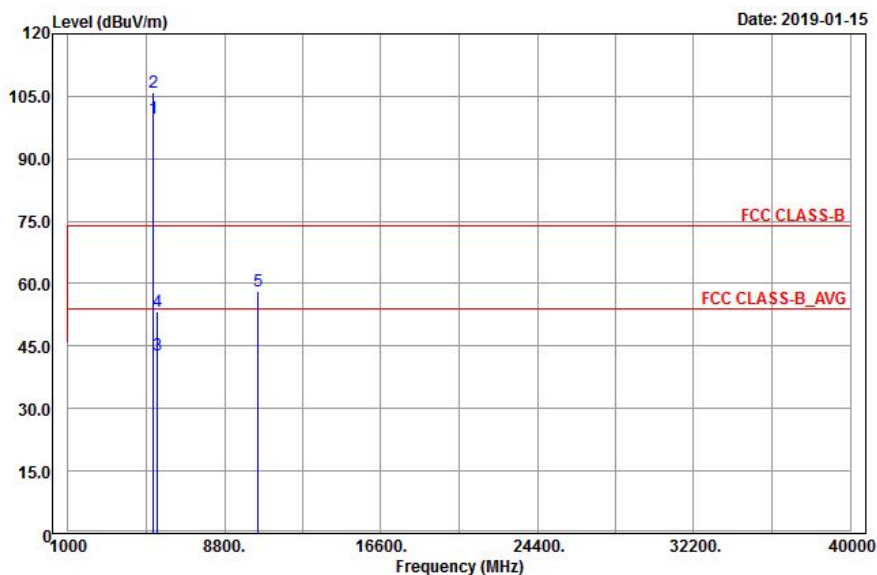
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level – Limit value
2. 5200 MHz: Fundamental Frequency
3. *: Out of Restricted Band
4. The other emission levels were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 48	Frequency Range	1 GHz ~ 40 GHz
Input Power	110 Vac, 60 Hz (System)	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical



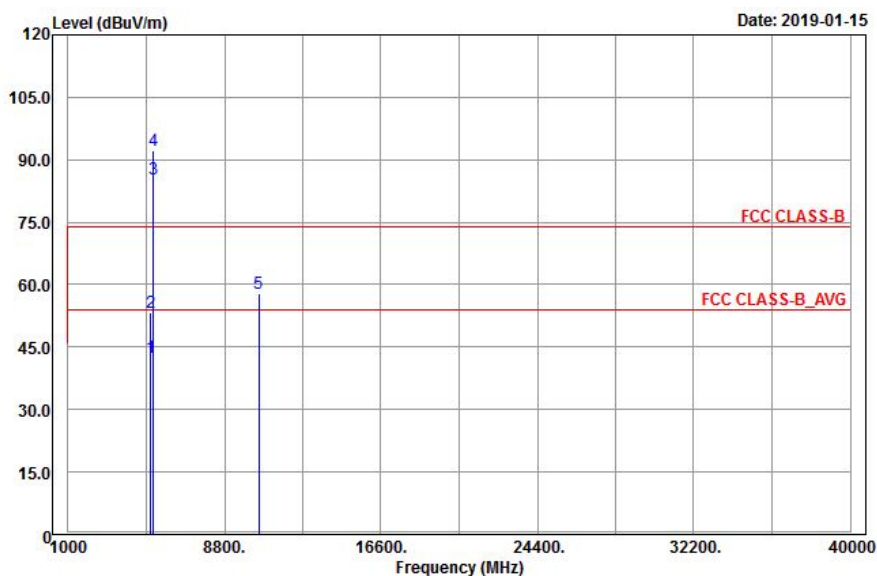
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5240	86.41	73.68			34.19	8.26	29.72	219	48	Average
5240	93.42	80.69			34.19	8.26	29.72	219	48	Peak
5444.71	42.63	29.55	54	-11.37	34.35	8.48	29.75	219	48	Average
5444.71	53.28	40.2	74	-20.72	34.35	8.48	29.75	219	48	Peak
*10480	56.61	39.14	68.2	-11.59	37.19	12.53	32.25	114	4	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5240	99.62	86.89			34.19	8.26	29.72	213	270	Average
5240	106.06	93.33			34.19	8.26	29.72	213	270	Peak
5451.31	42.75	29.64	54	-11.25	34.36	8.51	29.76	213	270	Average
5451.31	53.24	40.13	74	-20.76	34.36	8.51	29.76	213	270	Peak
*10480	58.18	40.71	68.2	-10.02	37.19	12.53	32.25	119	326	Peak

Remarks:

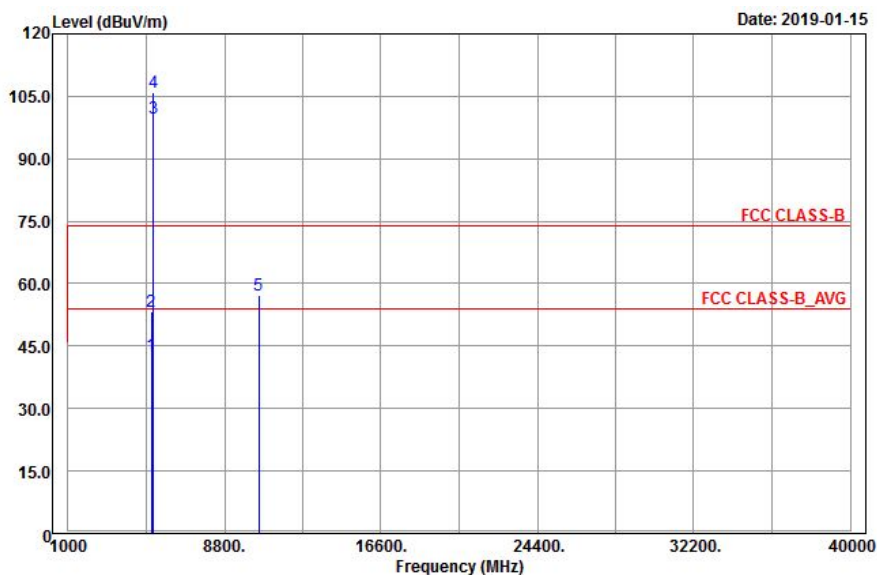
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level – Limit value
2. 5240 MHz: Fundamental Frequency
3. *: Out of Restricted Band
4. The other emission levels were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 52	Frequency Range	1 GHz ~ 40 GHz
Input Power	110 Vac, 60 Hz (System)	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical



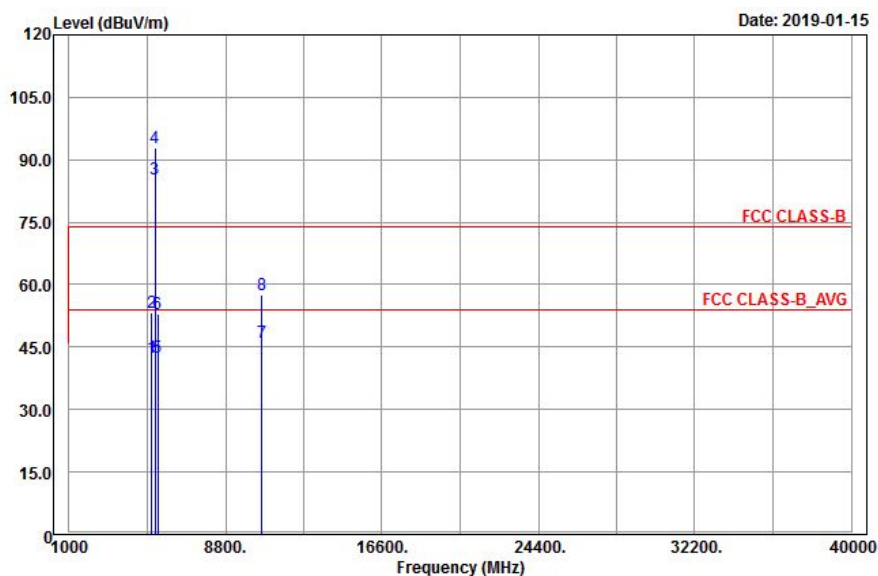
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5127.35	42.63	30.13	54	-11.37	34.11	8.1	29.71	200	46	Average
5127.35	53.24	40.74	74	-20.76	34.11	8.1	29.71	200	46	Peak
5260	85.49	72.75			34.21	8.26	29.73	200	46	Average
5260	92.32	79.58			34.21	8.26	29.73	200	46	Peak
*10520	57.83	40.28	68.2	-10.37	37.21	12.61	32.27	116	340	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
5147.3	42.83	30.29	54	-11.17	34.12	8.13	29.71	200	264	Average
5147.3	53.31	40.77	74	-20.69	34.12	8.13	29.71	200	264	Peak
5260	99.57	86.83			34.21	8.26	29.73	200	264	Average
5260	106.08	93.34			34.21	8.26	29.73	200	264	Peak
*10520	57.1	39.55	68.2	-11.1	37.21	12.61	32.27	124	213	Peak

Remarks:

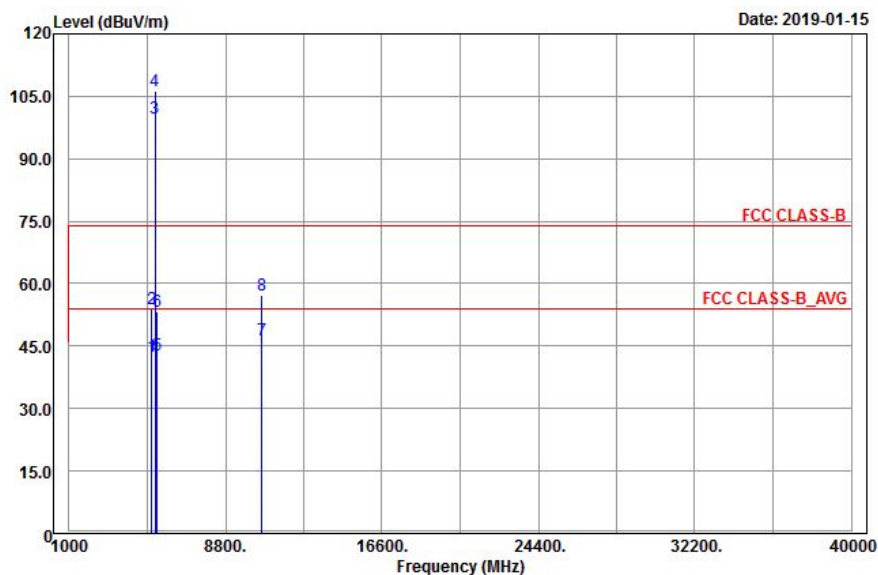
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level – Limit value
2. 5260 MHz: Fundamental Frequency
3. *: Out of Restricted Band
4. The other emission levels were very low against the limit.

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

Horizontal



Vertical



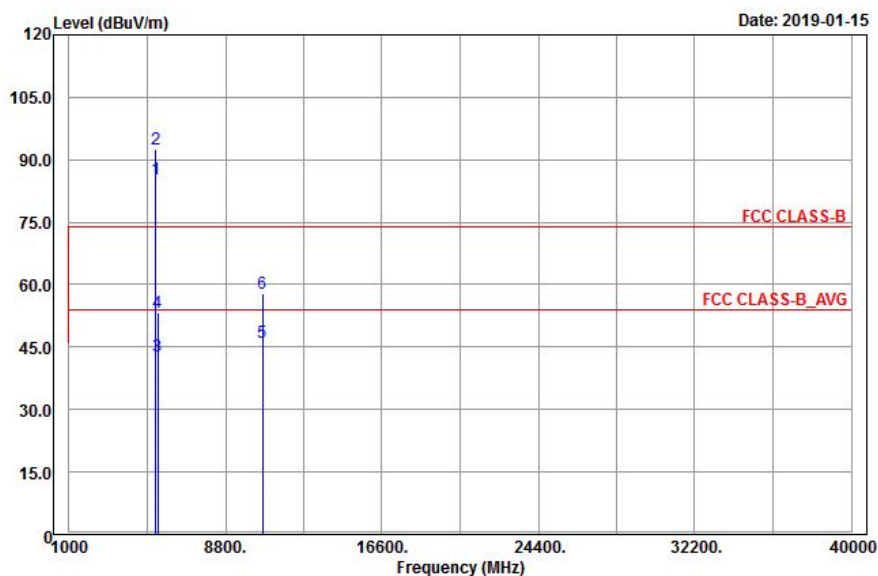
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5132	42.62	30.12	54	-11.38	34.11	8.1	29.71	200	46	Average
5132	53.21	40.71	74	-20.79	34.11	8.1	29.71	200	46	Peak
5300	85.49	72.66			34.24	8.32	29.73	200	46	Average
5300	92.82	79.99			34.24	8.32	29.73	200	46	Peak
5420.73	42.66	29.6	54	-11.34	34.33	8.48	29.75	200	46	Average
5420.73	52.97	39.91	74	-21.03	34.33	8.48	29.75	200	46	Peak
10600	46.14	28.45	54	-7.86	37.28	12.67	32.26	125	55	Average
10600	57.47	39.78	74	-16.53	37.28	12.67	32.26	125	55	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
5134.7	42.64	30.11	54	-11.36	34.11	8.13	29.71	200	264	Average
5134.7	53.81	41.28	74	-20.19	34.11	8.13	29.71	200	264	Peak
5300	99.57	86.74			34.24	8.32	29.73	200	264	Average
5300	106.41	93.58			34.24	8.32	29.73	200	264	Peak
5383.44	42.89	29.92	54	-11.11	34.31	8.41	29.75	200	264	Average
5383.44	53.35	40.38	74	-20.65	34.31	8.41	29.75	200	264	Peak
10600	46.34	28.65	54	-7.66	37.28	12.67	32.26	199	9	Average
10600	57.13	39.44	74	-16.87	37.28	12.67	32.26	199	9	Peak

Remarks:

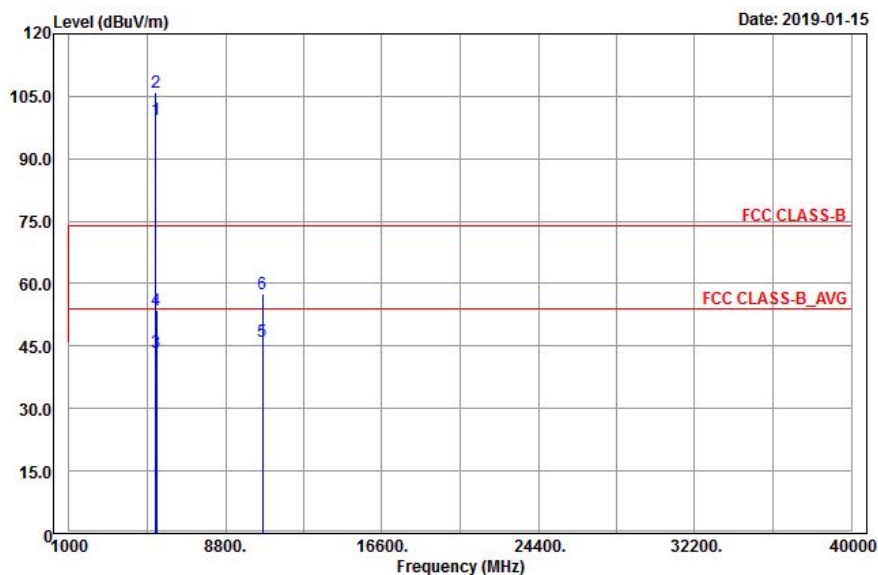
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level – Limit value
2. 5300 MHz: Fundamental Frequency
3. *: Out of Restricted Band
4. The other emission levels were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 64	Frequency Range	1 GHz ~ 40 GHz
Input Power	110 Vac, 60 Hz (System)	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical



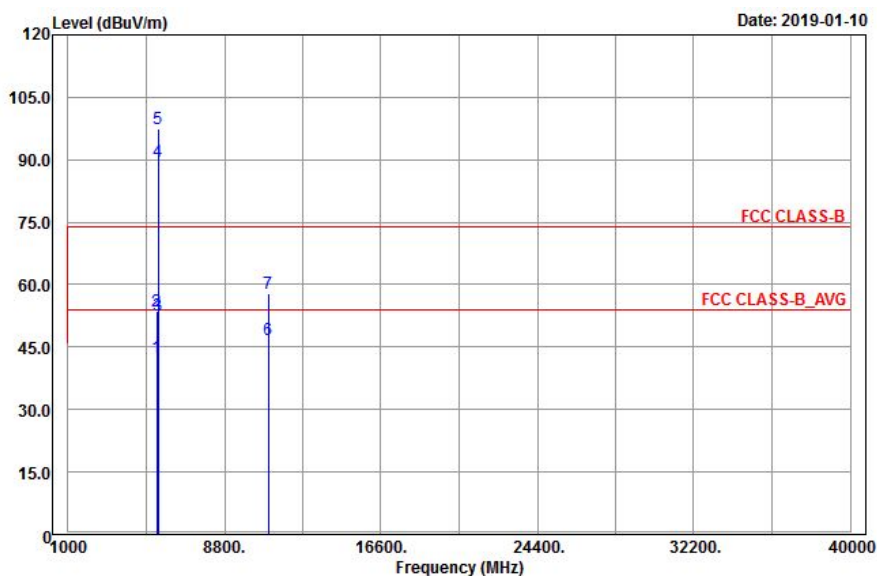
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5320	85.46	72.59			34.25	8.35	29.73	200	46	Average
5320	92.59	79.72			34.25	8.35	29.73	200	46	Peak
5424.47	42.73	29.67	54	-11.27	34.33	8.48	29.75	200	46	Average
5424.47	53.45	40.39	74	-20.55	34.33	8.48	29.75	200	46	Peak
10640	46.2	28.44	54	-7.8	37.31	12.71	32.26	125	285	Average
10640	57.98	40.22	74	-16.02	37.31	12.71	32.26	125	285	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	99.47	86.6			34.25	8.35	29.73	200	264	Average
5320	106.08	93.21			34.25	8.35	29.73	200	264	Peak
5350.33	43.33	30.41	54	-10.67	34.28	8.38	29.74	200	264	Average
5350.33	53.69	40.77	74	-20.31	34.28	8.38	29.74	200	264	Peak
10640	46.19	28.43	54	-7.81	37.31	12.71	32.26	135	222	Average
10640	57.7	39.94	74	-16.3	37.31	12.71	32.26	135	222	Peak

Remarks:

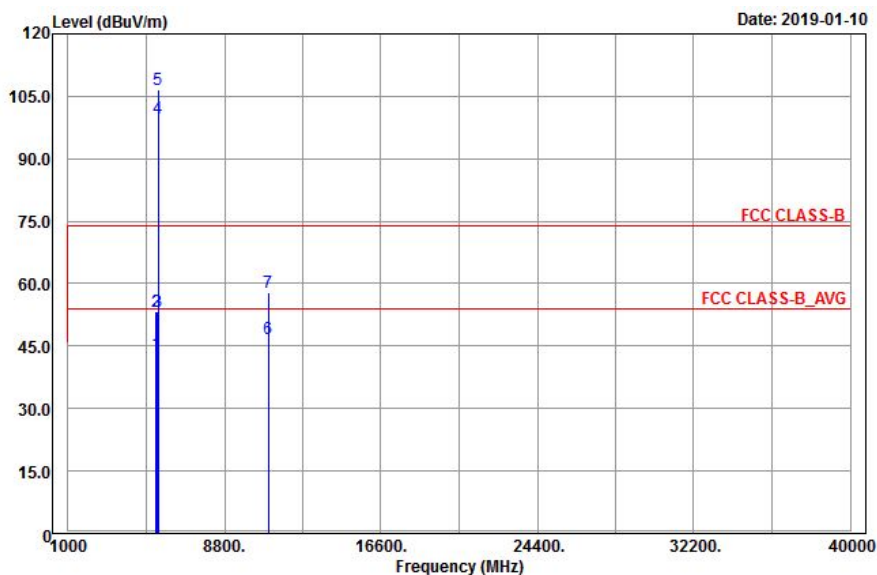
1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level – Limit value
2. 5320 MHz: Fundamental Frequency
3. *: Out of Restricted Band
4. The other emission levels were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 100	Frequency Range	1 GHz ~ 40 GHz
Input Power	110 Vac, 60 Hz (System)	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical



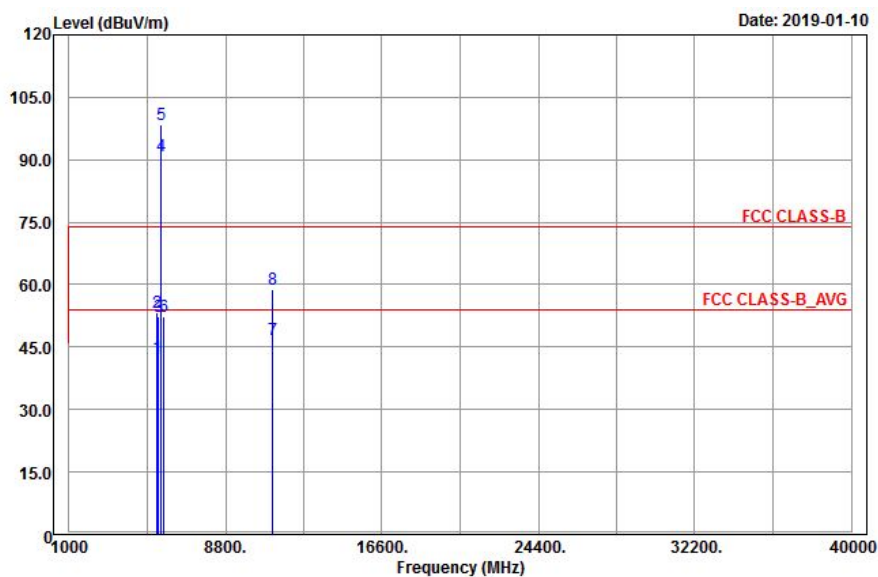
Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
5430.64	42.65	29.57	54	-11.35	34.35	8.48	29.75	198	297	Average
5430.64	53.47	40.39	74	-20.53	34.35	8.48	29.75	198	297	Peak
*5470	52.63	39.51	68.2	-15.57	34.37	8.51	29.76	198	297	Peak
5500	89.55	76.34			34.4	8.57	29.76	198	297	Average
5500	97.4	84.19			34.4	8.57	29.76	198	297	Peak
11000	46.76	28.43	54	-7.24	37.6	12.96	32.23	104	245	Average
11000	57.77	39.44	74	-16.23	37.6	12.96	32.23	104	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
5405.68	43.11	30.1	54	-10.89	34.32	8.44	29.75	201	48	Average
5405.68	53.4	40.39	74	-20.6	34.32	8.44	29.75	201	48	Peak
*5468.4	53.17	40.05	68.2	-15.03	34.37	8.51	29.76	201	48	Peak
5500	99.83	86.62	54			8.57	29.76	201	48	Average
5500	106.57	93.36	74			8.57	29.76	201	48	Peak
11000	46.89	28.56	54	-7.11	37.6	12.96	32.23	157	258	Average
11000	57.95	39.62	74	-16.05	37.6	12.96	32.23	157	258	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
4. The other emission levels were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 116	Frequency Range	1 GHz ~ 40 GHz
Input Power	110 Vac, 60 Hz (System)	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee

Horizontal



Vertical

