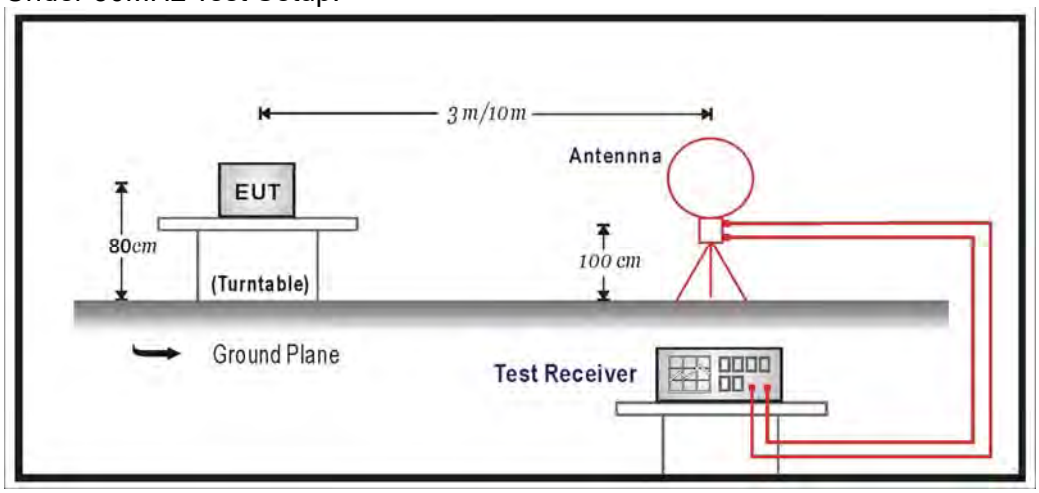
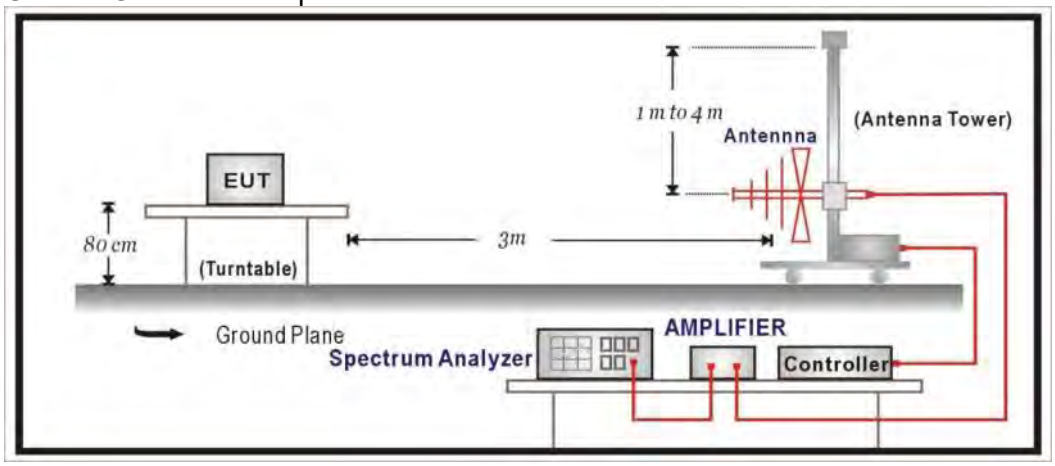
7. Radiated Emission

7.1. Test Setup

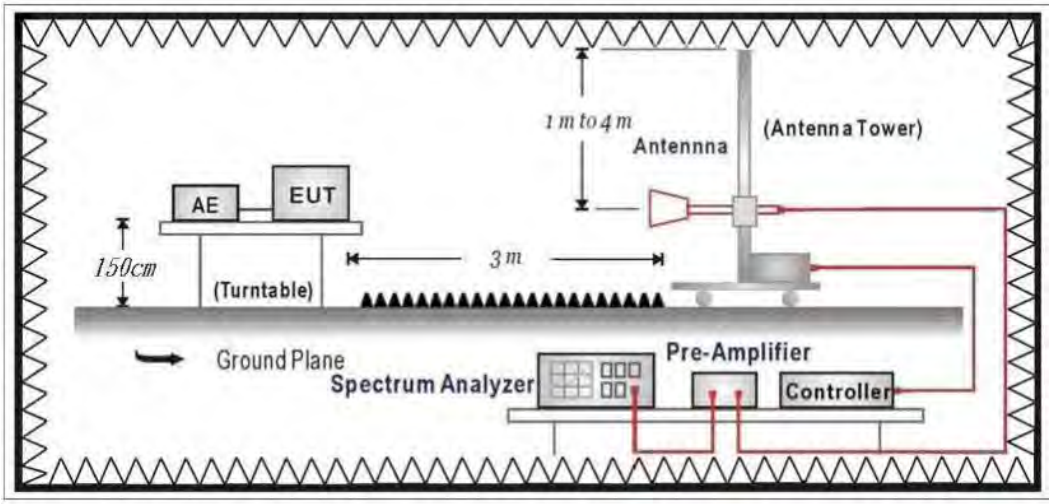
Under 30MHz Test Setup:



Under 1GHz Test Setup:



Above 1GHz Test Setup:



7.2. Limits

➢ **General Radiated Emission Limits**

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section. Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency (MHz)	uV/m	dBuV/m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remark:

1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

➢ **Unwanted Emission out of the restricted bands Limits**

FCC Part 15 Subpart E Paragraph 15.407(b) Limits		
Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (dBuV/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
5725 - 5850	-27 (Note1)	68.3
	-17 (Note2)	78.3

Remark:

1. For frequencies more than 10 MHz above or below the band edges.
2. For frequency range from the band edges to 10 MHz above or below the band edges.
3. uV/m = $\frac{1000000\sqrt{30\times EIRP}}{3}$, RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

7.3. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field dtrength of harmonics measurement.

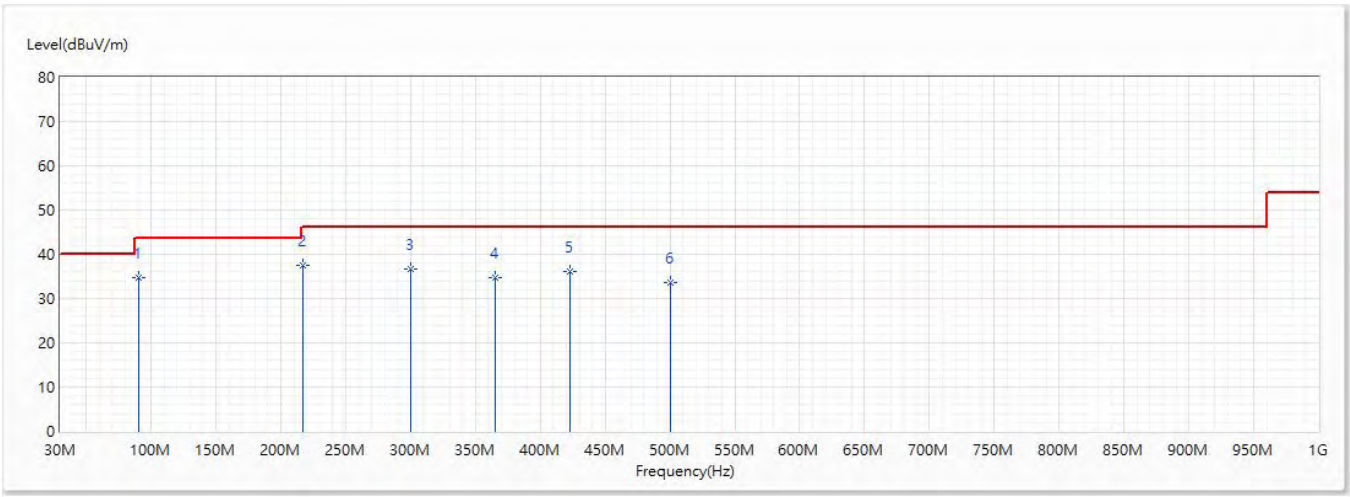
The bandwidth below 1GHz setting on the field strength meter is 120 KHz, above 1GHz are 1 MHz.

The frequency range from 30MHz to 10th harmonics and included The frequency range from the lowest oscillator frequency generated within the device up to the 10th harmonic was checked is checked.

7.4. Test Result

30MHz-1GHz Spurious

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit_SISO Mode		
Note :	802.11a_5785MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

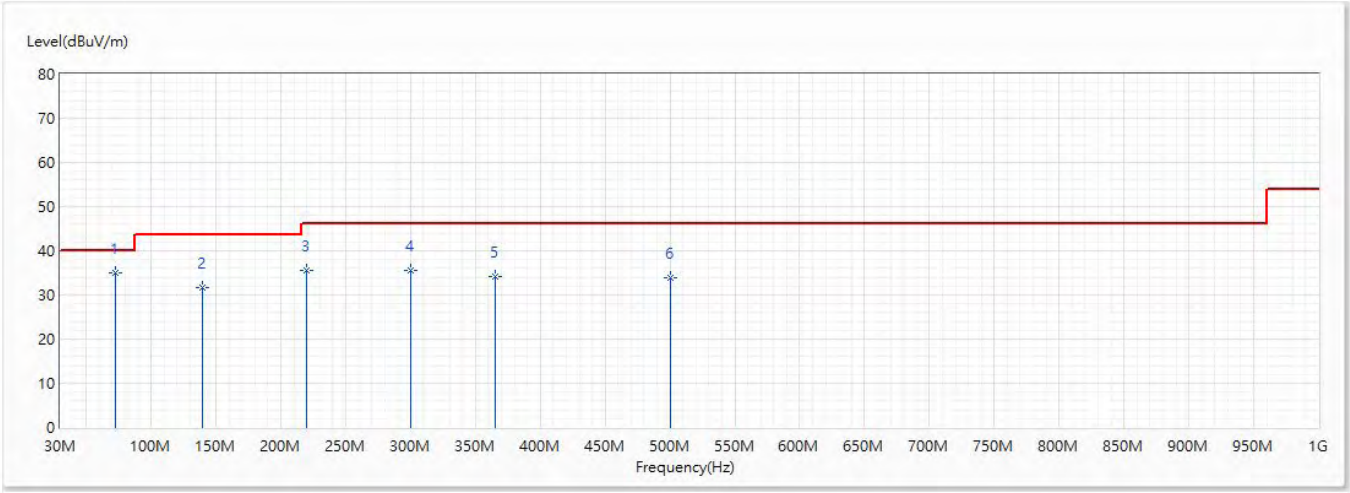


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	90.383	34.85	43.50	-8.65	57.03	-22.18	QP
* 2	217.21	37.44	46.00	-8.56	56.84	-19.40	QP
3	299.903	36.77	46.00	-9.23	53.21	-16.44	QP
4	365.135	34.61	46.00	-11.39	48.87	-14.26	QP
5	422.486	36.05	46.00	-9.95	48.75	-12.70	QP
6	499.965	33.63	46.00	-12.37	44.89	-11.26	QP

Note:

1. All reading levels is Quasi-Peak value.
2. " * ", means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit_SISO Mode		
Note :	802.11a_5785MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

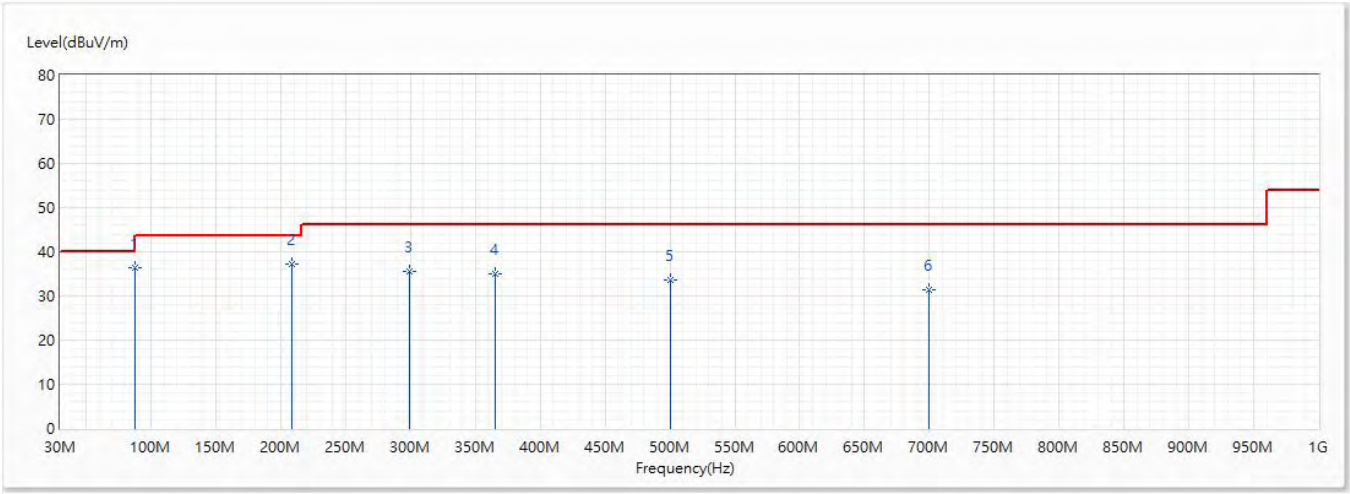


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	72.559	34.99	40.00	-5.01	59.43	-24.44	QP
2	139.61	31.76	43.50	-11.74	50.36	-18.60	QP
3	219.635	35.65	46.00	-10.35	54.91	-19.26	QP
4	299.903	35.50	46.00	-10.50	51.94	-16.44	QP
5	365.135	34.04	46.00	-11.96	48.30	-14.26	QP
6	499.965	33.95	46.00	-12.05	45.21	-11.26	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(20M)_5785MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

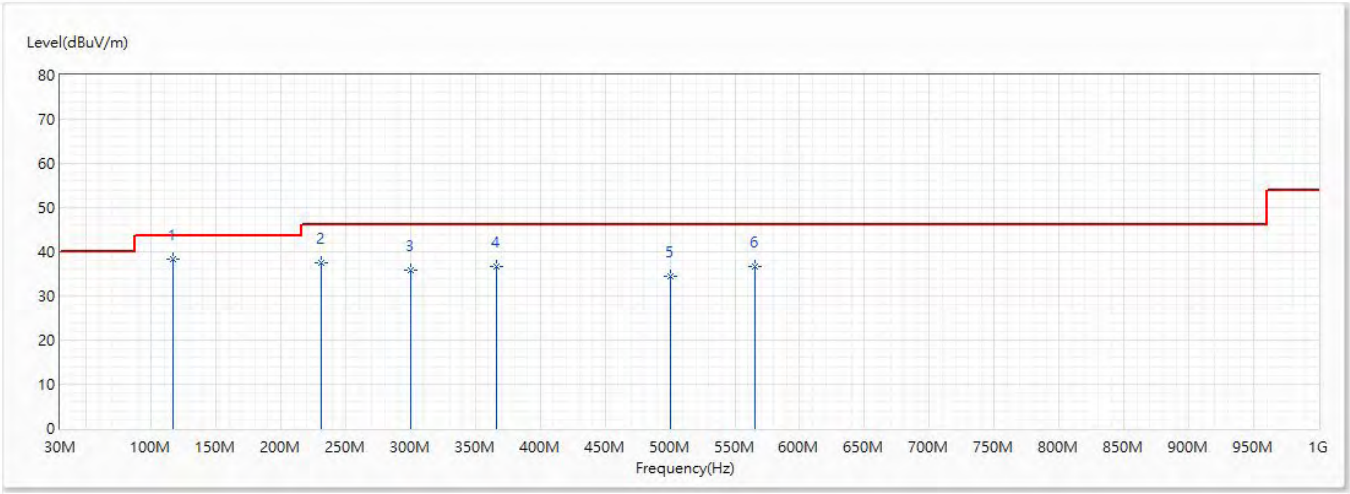


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	87.958	35.44	40.00	-4.56	58.07	-22.63	QP
2	208.723	37.35	43.50	-6.15	57.26	-19.91	QP
3	298.811	35.69	46.00	-10.31	52.15	-16.46	QP
4	365.135	34.92	46.00	-11.08	49.18	-14.26	QP
5	500.086	33.73	46.00	-12.27	44.99	-11.26	QP
6	700.028	31.51	46.00	-14.49	40.73	-9.22	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(20M)_5785MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

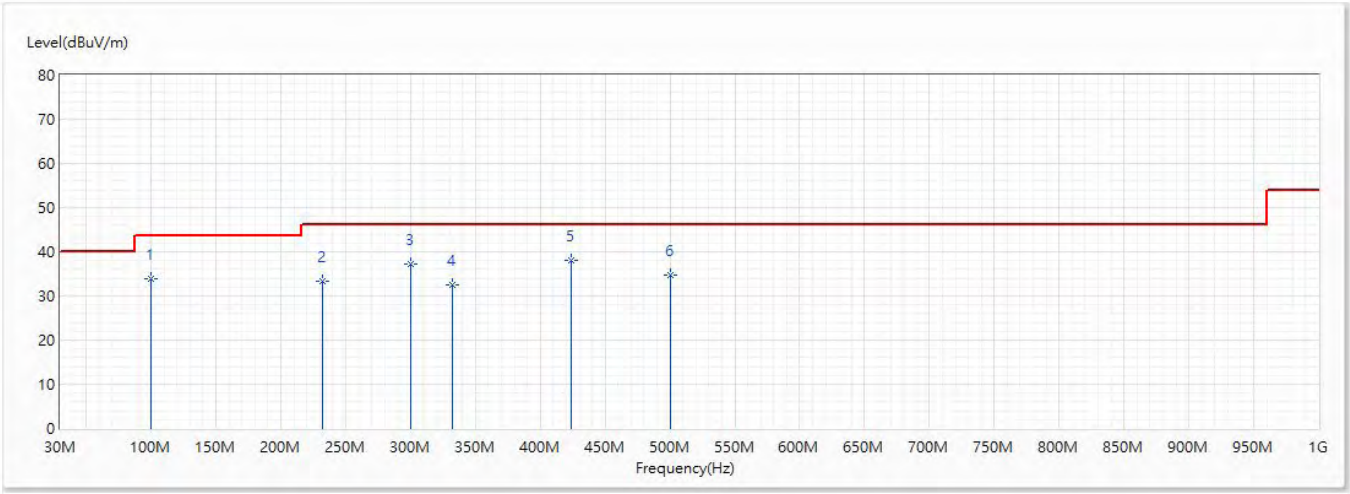


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	116.694	38.43	43.50	-5.07	56.78	-18.35	QP
2	231.154	37.43	46.00	-8.57	56.00	-18.57	QP
3	299.903	35.83	46.00	-10.17	52.27	-16.44	QP
4	366.59	36.65	46.00	-9.35	50.87	-14.22	QP
5	499.965	34.47	46.00	-11.53	45.73	-11.26	QP
6	565.561	36.75	46.00	-9.25	47.23	-10.48	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(40M)_5755MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

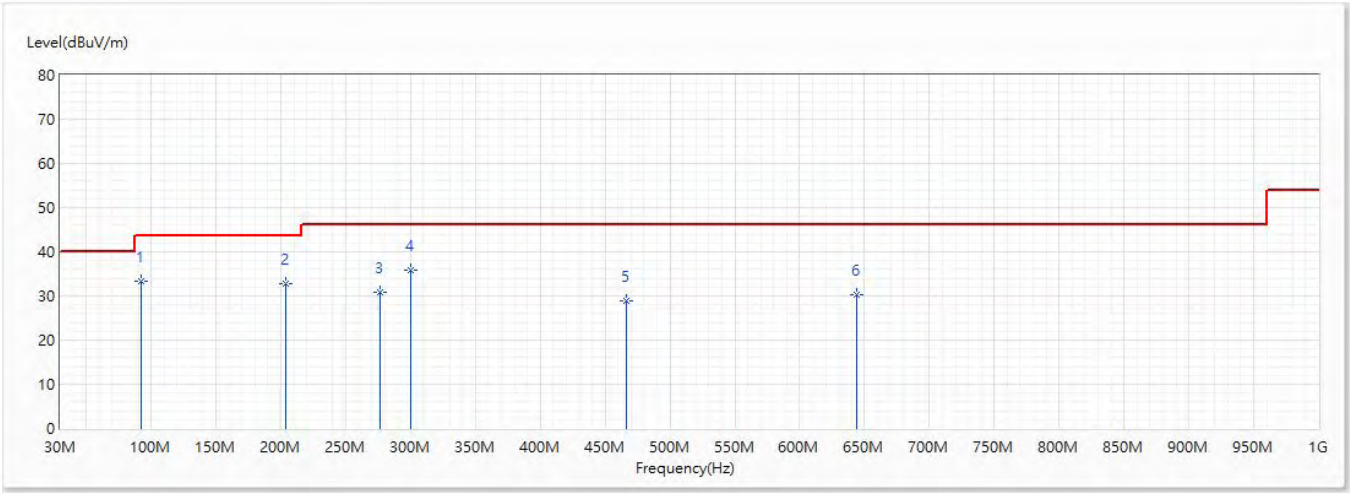


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	99.598	33.84	43.50	-9.66	54.13	-20.29	QP
2	231.76	33.41	46.00	-12.59	51.95	-18.54	QP
3	299.903	37.19	46.00	-8.81	53.63	-16.44	QP
4	331.913	32.56	46.00	-13.44	47.93	-15.37	QP
* 5	424.063	38.09	46.00	-7.91	50.75	-12.66	QP
6	499.965	34.67	46.00	-11.33	45.93	-11.26	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(40M)_5755MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	92.686	33.46	43.50	-10.04	55.19	-21.73	QP
2	204.236	32.71	43.50	-10.79	52.89	-20.18	QP
3	276.138	30.91	46.00	-15.09	47.83	-16.92	QP
4	299.903	35.81	46.00	-10.19	52.25	-16.44	QP
5	466.5	29.02	46.00	-16.98	40.86	-11.84	QP
6	643.889	30.36	46.00	-15.64	40.00	-9.64	QP

Note:

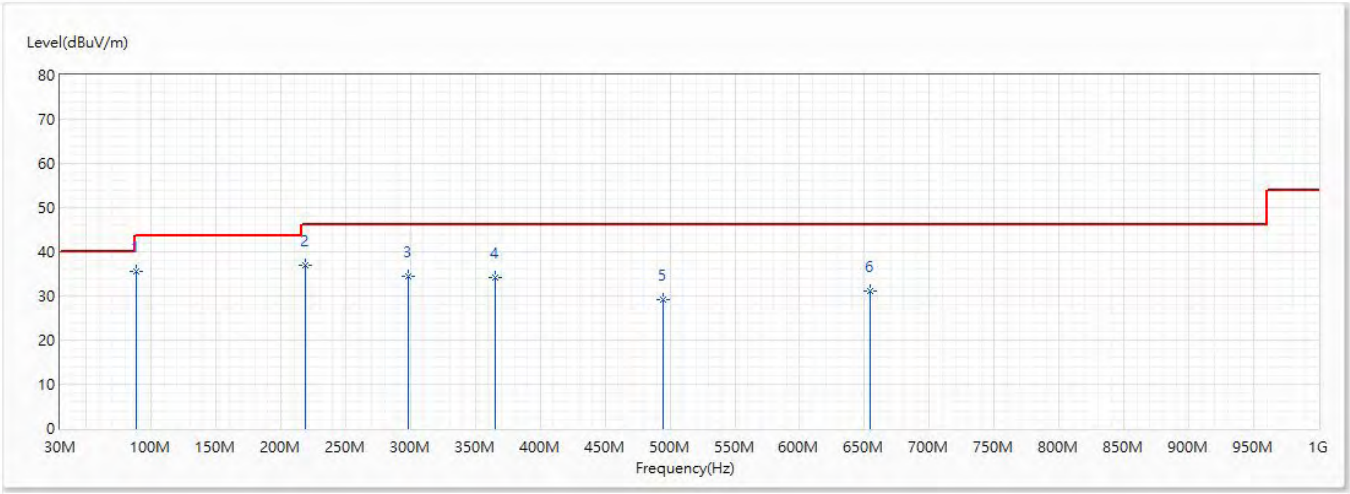
1. All reading levels is Quasi-Peak value.

2. “ * ”, means this data is the worst value.

3. Emission Level = Reading Level + Correct Factor

4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11ac(80M)_5775MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

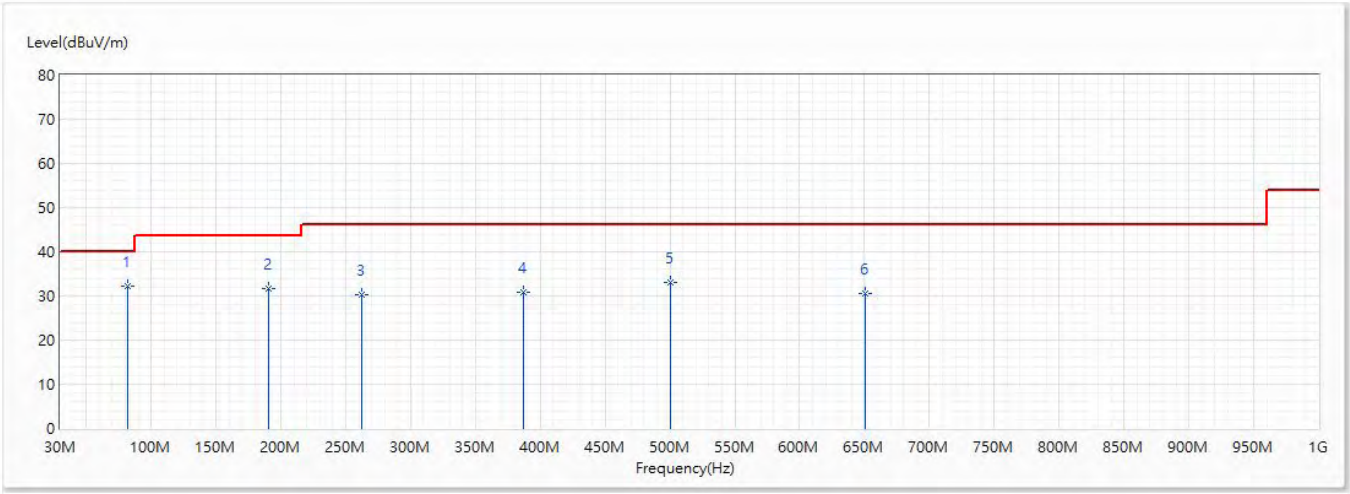


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	88.806	35.56	43.50	-7.94	58.04	-22.48	QP
2	219.029	36.99	46.00	-9.01	56.28	-19.29	QP
3	298.69	34.31	46.00	-11.69	50.77	-16.46	QP
4	365.135	34.25	46.00	-11.75	48.51	-14.26	QP
5	494.509	29.14	46.00	-16.86	40.50	-11.36	QP
6	654.074	31.14	46.00	-14.86	40.69	-9.55	QP

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11ac(80M)_5775MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
* 1	81.895	32.32	40.00	-7.68	55.75	-23.43	QP
2	190.899	31.61	43.50	-11.89	52.28	-20.67	QP
3	262.8	30.30	46.00	-15.70	47.48	-17.18	QP
4	387.445	30.78	46.00	-15.22	44.33	-13.55	QP
5	499.965	33.09	46.00	-12.91	44.35	-11.26	QP
6	650.073	30.57	46.00	-15.43	40.15	-9.58	QP

Note:

1. All reading levels is Quasi-Peak value.

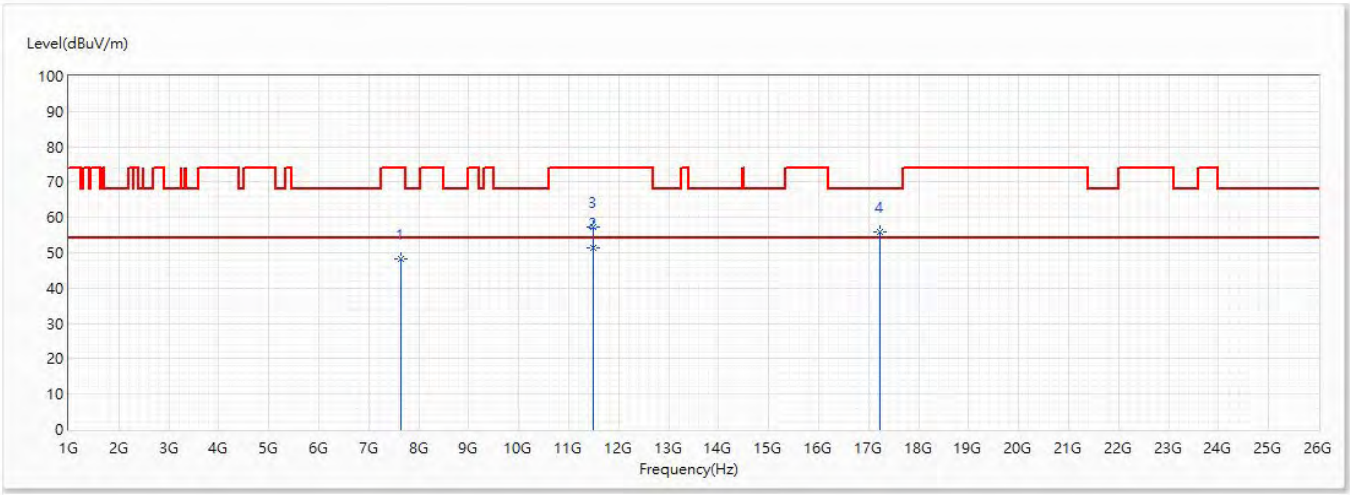
2. “ * ”, means this data is the worst value.

3. Emission Level = Reading Level + Correct Factor

4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Harmonic & Spurious:

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit_SISO Mode		
Note :	802.11a_5745MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

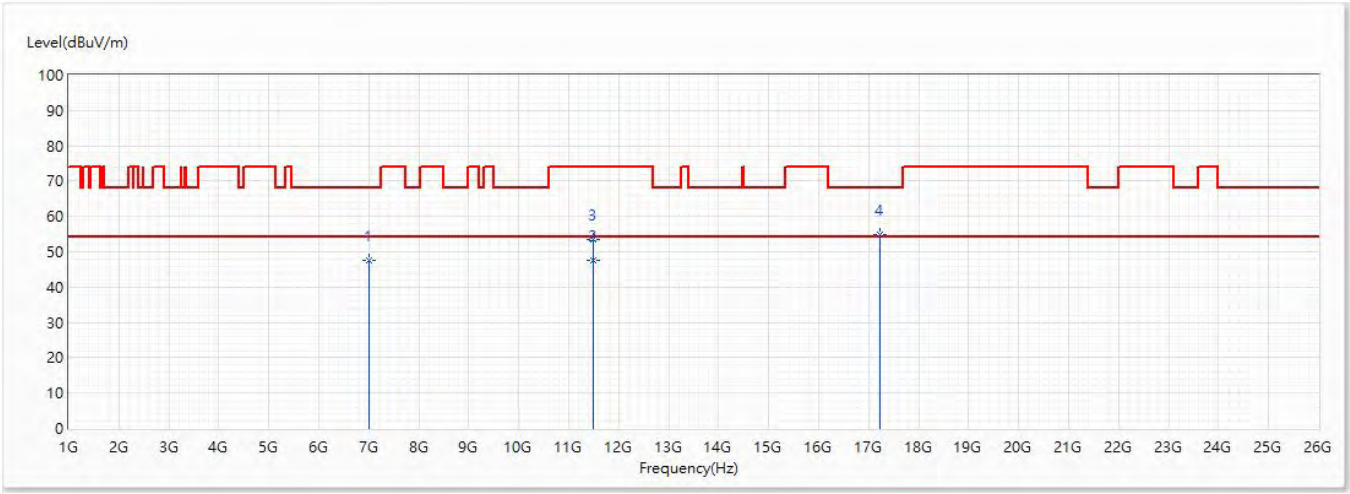


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7642	48.21	74.00	-25.79	47.26	0.95	PK
* 2	11490	51.33	54.00	-2.67	42.90	8.43	AV
3	11490	57.37	74.00	-16.63	48.94	8.43	PK
4	17235	55.87	68.20	-12.33	43.47	12.40	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit_SISO Mode		
Note :	802.11a_5745MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

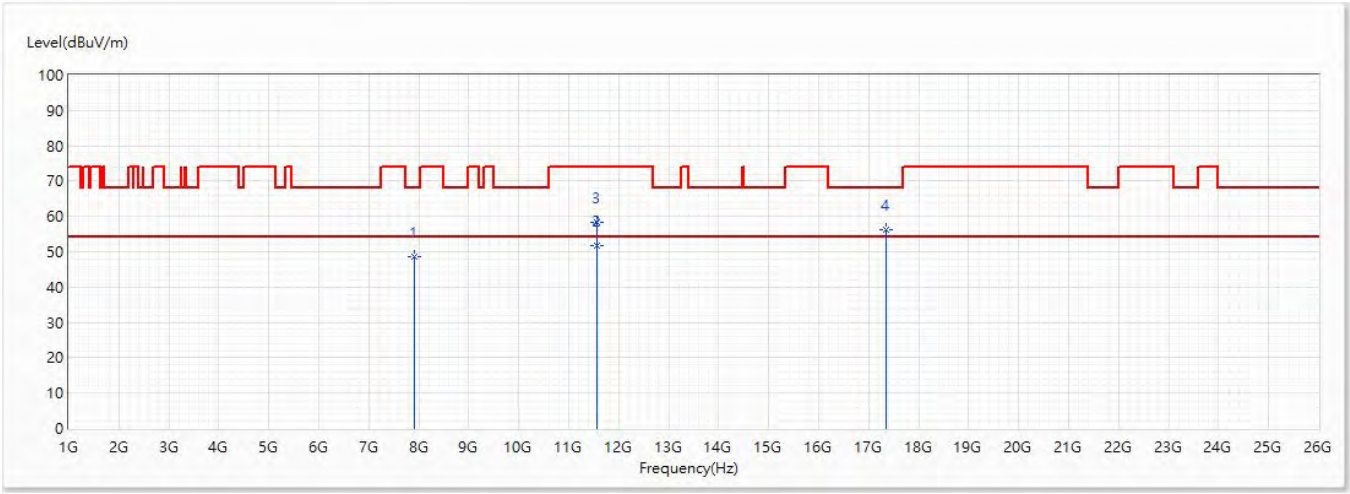


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7010	47.57	68.20	-20.63	47.79	-0.22	PK
* 2	11490	47.66	54.00	-6.34	39.23	8.43	AV
3	11490	53.31	74.00	-20.69	44.88	8.43	PK
4	17235	54.81	68.20	-13.39	42.41	12.40	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit_SISO Mode		
Note :	802.11a_5785MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

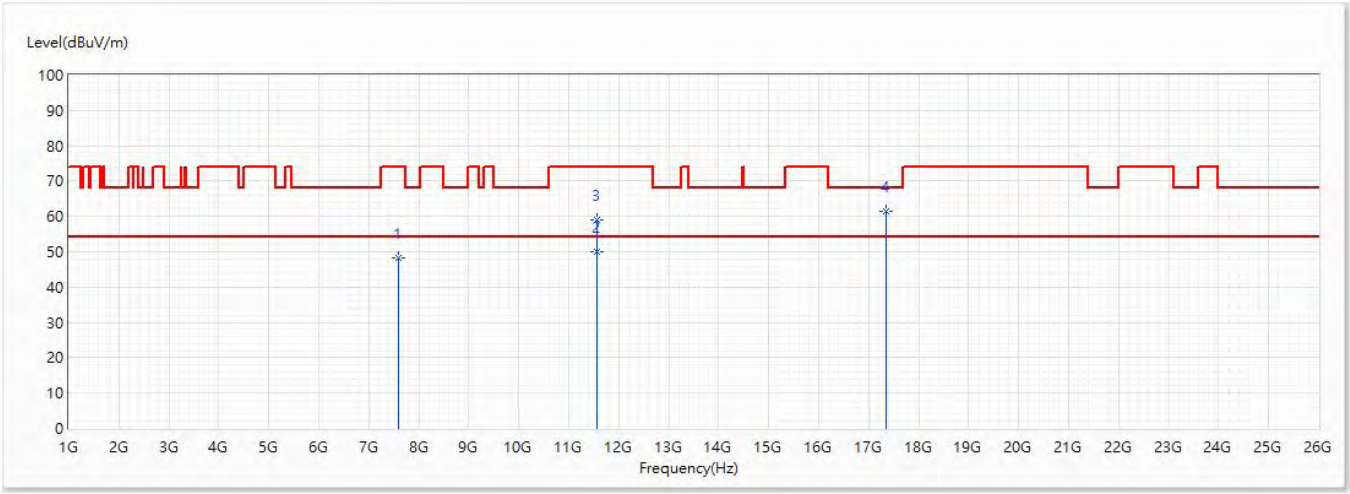


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7920	48.59	68.20	-19.61	47.31	1.28	PK
* 2	11570	51.81	54.00	-2.19	43.27	8.54	AV
3	11570	58.26	74.00	-15.74	49.72	8.54	PK
4	17355	56.33	68.20	-11.87	43.52	12.81	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit_SISO Mode		
Note :	802.11a_5785MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

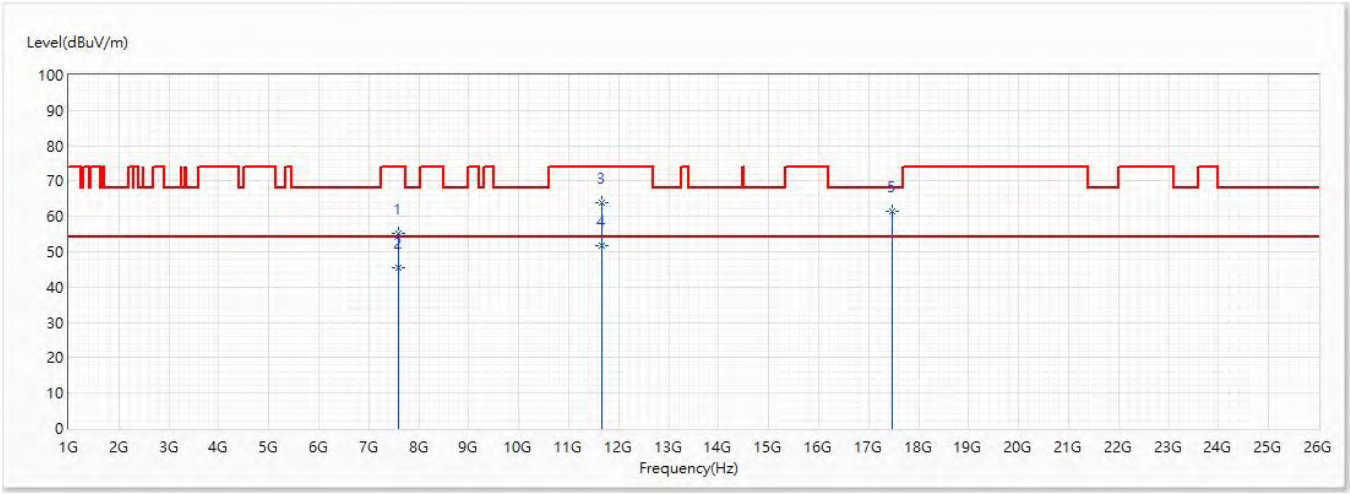


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7598	48.23	74.00	-25.77	47.33	0.90	PK
* 2	11570	50.15	54.00	-3.85	41.61	8.54	AV
3	11570	59.05	74.00	-14.95	50.51	8.54	PK
4	17355	61.38	68.20	-6.82	48.57	12.81	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit_SISO Mode		
Note :	802.11a_5825MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

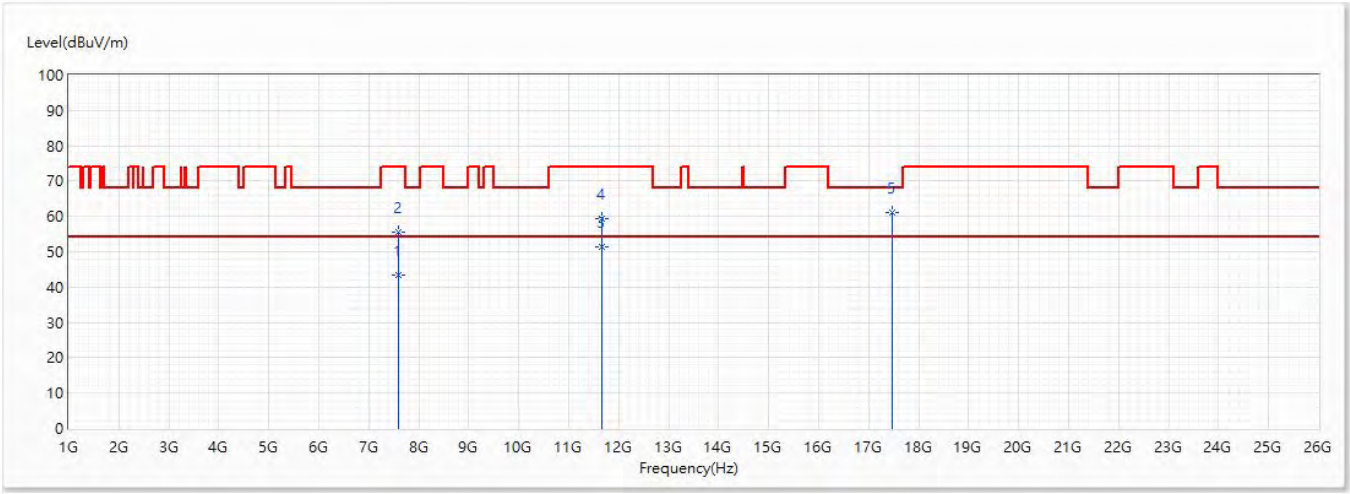


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7605	55.07	74.00	-18.93	54.15	0.92	PK
2	7605	45.55	54.00	-8.45	44.63	0.92	AV
3	11650	63.90	74.00	-10.10	55.24	8.66	PK
* 4	11650	51.81	54.00	-2.19	43.15	8.66	AV
5	17475	61.33	68.20	-6.87	48.10	13.23	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/17
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit_SISO Mode		
Note :	802.11a_5825MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

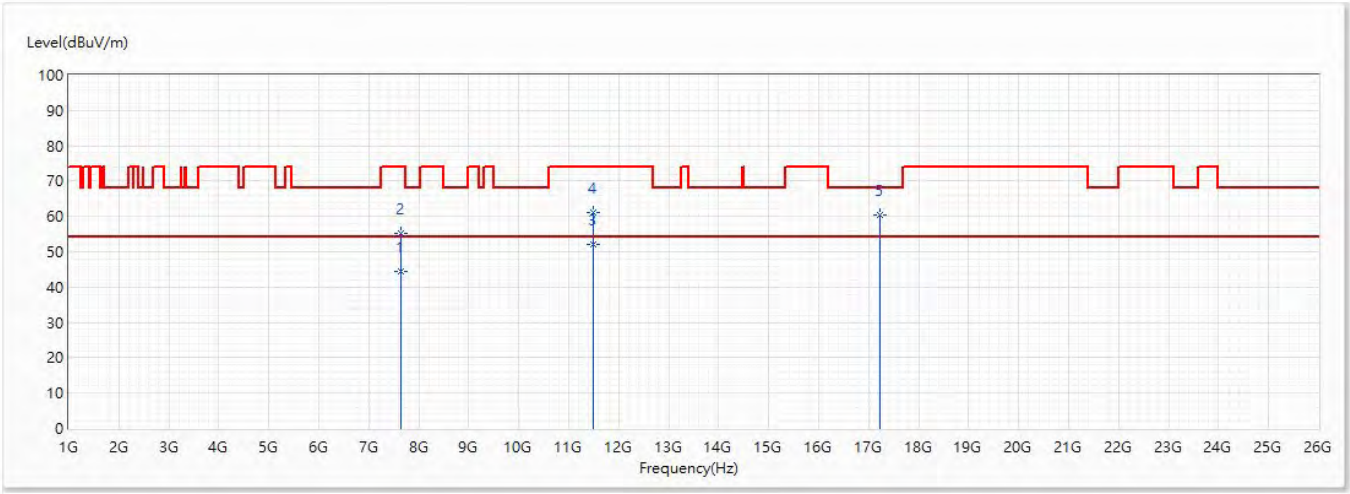


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7605	43.33	54.00	-10.67	42.41	0.92	AV
2	7605	55.60	74.00	-18.40	54.68	0.92	PK
* 3	11650	51.54	54.00	-2.46	42.88	8.66	AV
4	11650	59.23	74.00	-14.77	50.57	8.66	PK
5	17475	61.03	68.20	-7.17	47.80	13.23	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(20M)_5745MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

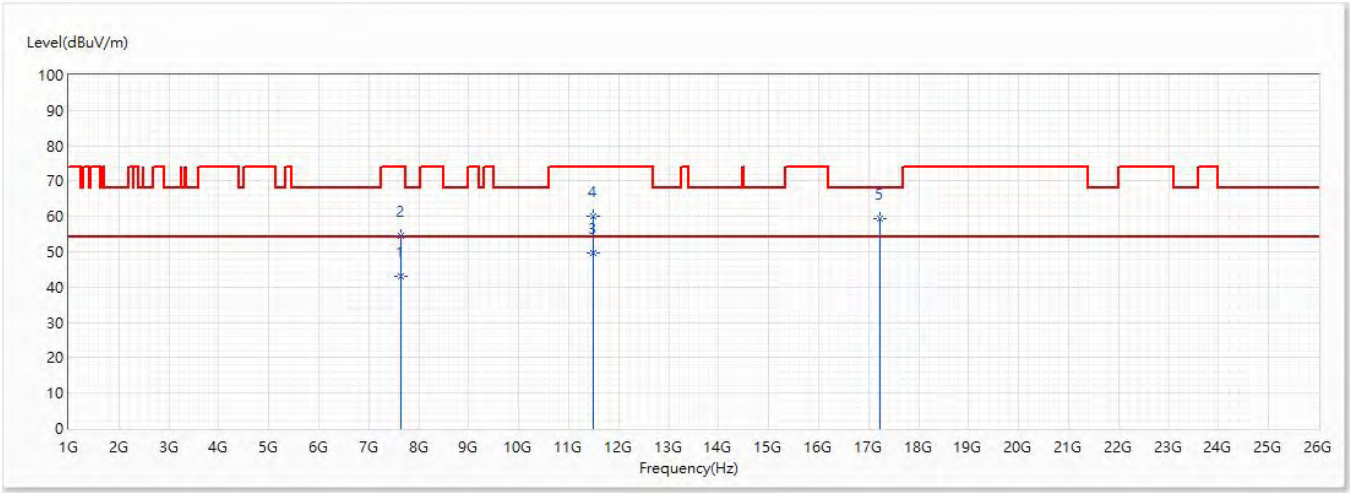


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7640	44.33	54.00	-9.67	43.38	0.95	AV
2	7640	55.12	74.00	-18.88	54.17	0.95	PK
* 3	11490	51.91	54.00	-2.09	43.48	8.43	AV
4	11490	61.11	74.00	-12.89	52.68	8.43	PK
5	17235	60.58	68.20	-7.62	48.18	12.40	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(20M)_5745MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

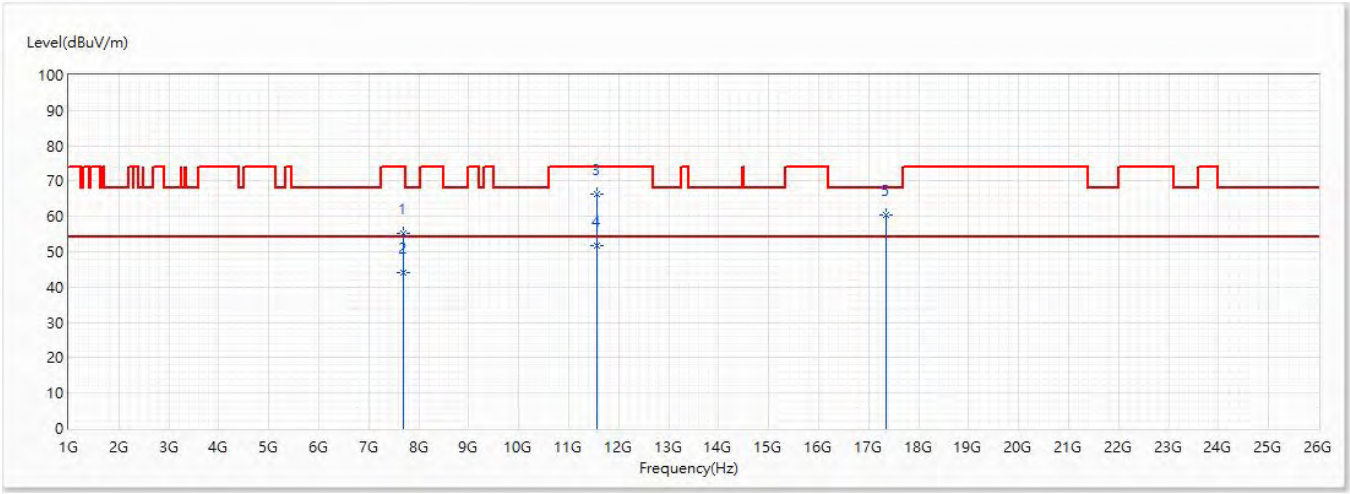


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7640	43.22	54.00	-10.78	42.27	0.95	AV
2	7640	54.61	74.00	-19.39	53.66	0.95	PK
* 3	11490	49.58	54.00	-4.42	41.15	8.43	AV
4	11490	60.22	74.00	-13.78	51.79	8.43	PK
5	17235	59.33	68.20	-8.87	46.93	12.40	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(20M)_5785MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

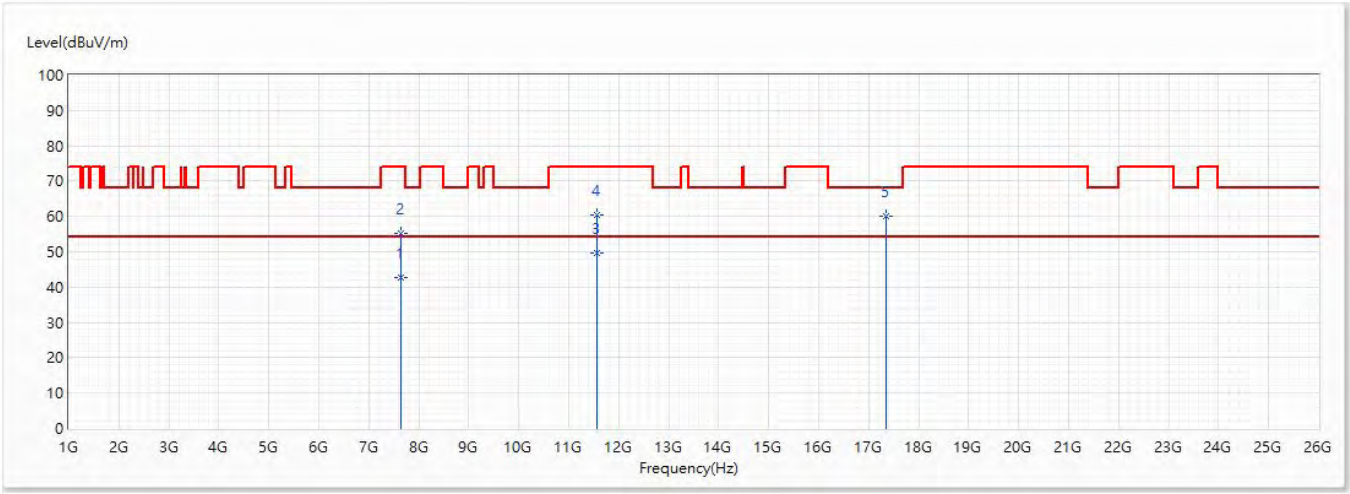


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7700	55.12	74.00	-18.88	54.09	1.03	PK
2	7700	44.15	54.00	-9.85	43.12	1.03	AV
3	11570	66.39	74.00	-7.61	57.85	8.54	PK
* 4	11570	51.77	54.00	-2.23	43.23	8.54	AV
5	17355	60.31	68.20	-7.89	47.50	12.81	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(20M)_5785MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

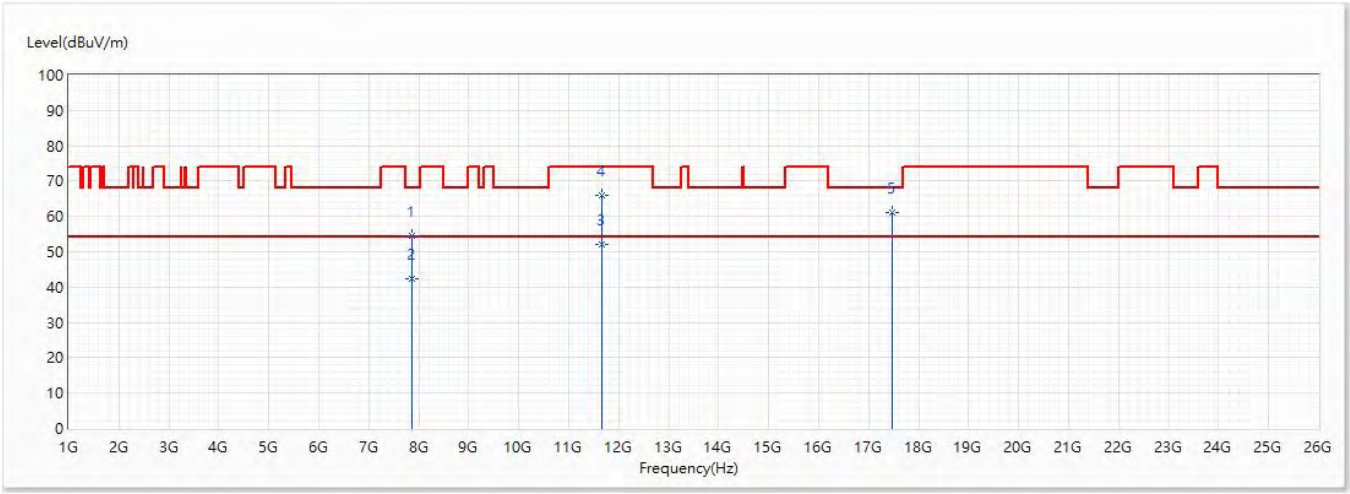


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7634	42.59	54.00	-11.41	41.64	0.95	AV
2	7634	55.19	74.00	-18.81	54.24	0.95	PK
* 3	11570	49.56	54.00	-4.44	41.02	8.54	AV
4	11570	60.28	74.00	-13.72	51.74	8.54	PK
5	17355	60.11	68.20	-8.09	47.30	12.81	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(20M)_5825MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

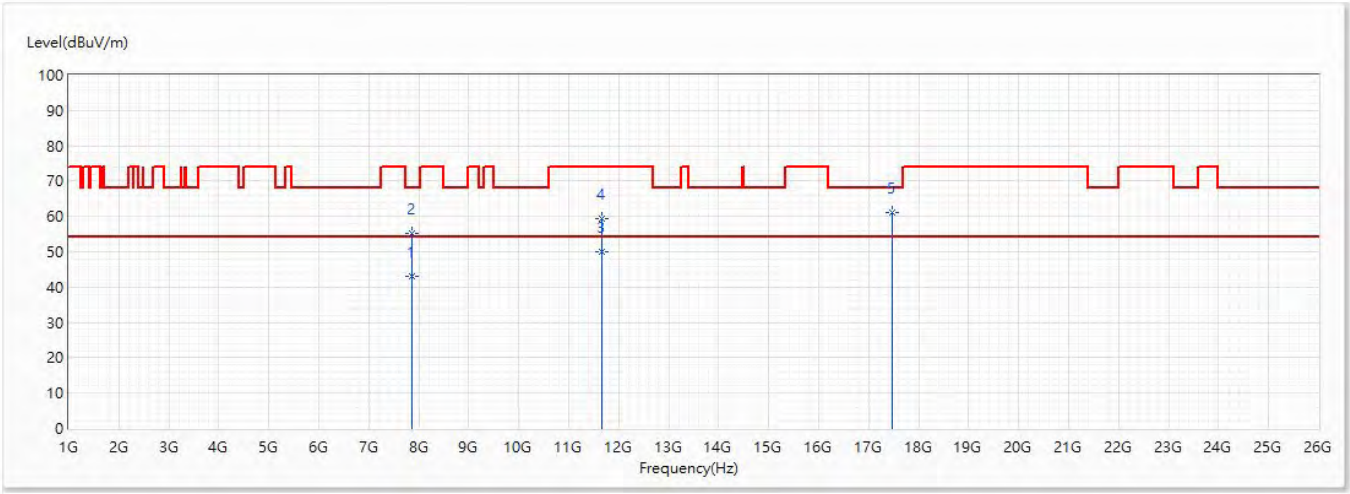


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7851	54.53	68.20	-13.67	53.33	1.20	PK
2	7851	42.53	54.00	-11.47	41.33	1.20	AV
3	11650	52.00	74.00	-22.00	43.34	8.66	PK
4	11650	65.90	74.00	-8.10	57.24	8.66	PK
* 5	17475	61.19	68.20	-7.01	47.96	13.23	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(20M)_5825MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

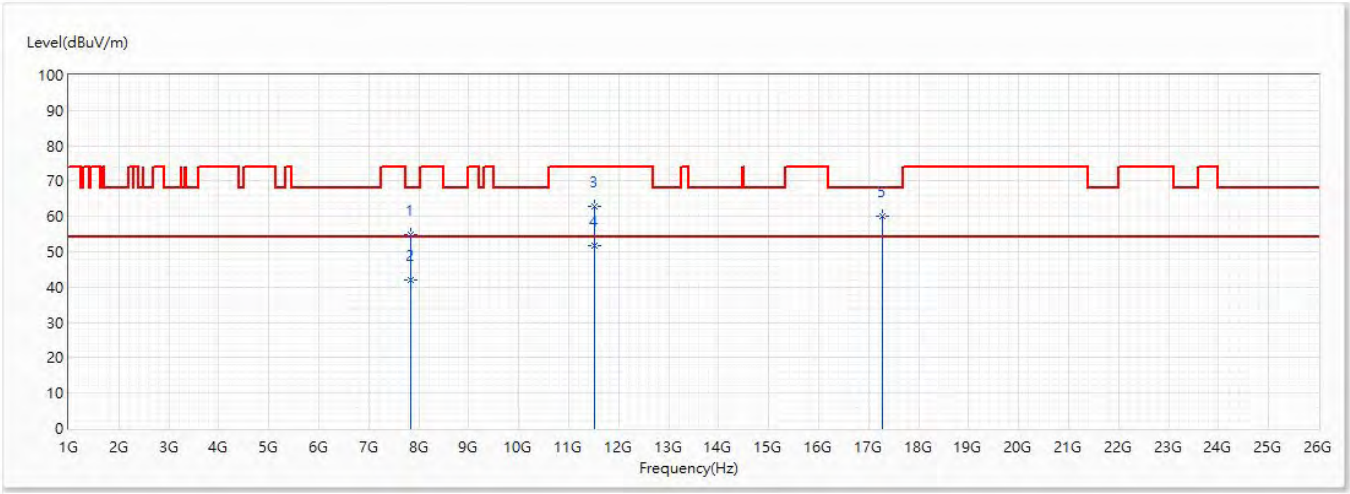


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7851	43.13	54.00	-10.87	41.93	1.20	AV
2	7851	55.14	68.20	-13.06	53.94	1.20	PK
* 3	11650	50.11	54.00	-3.89	41.45	8.66	AV
4	11650	59.22	74.00	-14.78	50.56	8.66	PK
5	17475	61.21	68.20	-6.99	47.98	13.23	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(40M)_5755MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

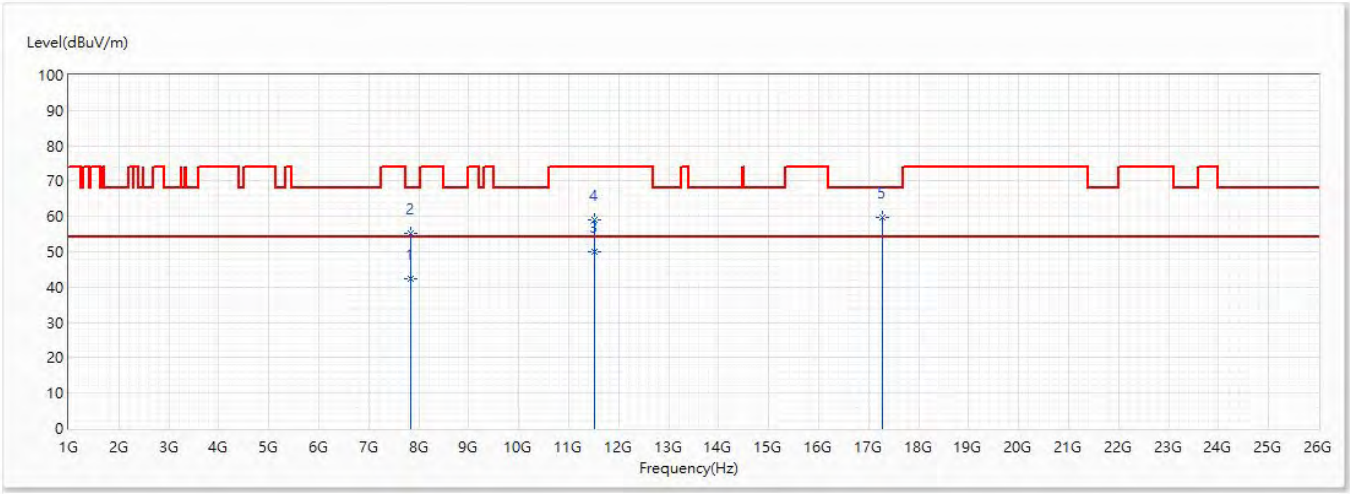


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7830	54.90	68.20	-13.30	53.72	1.18	PK
2	7830	42.11	54.00	-11.89	40.93	1.18	AV
3	11510	62.84	74.00	-11.16	54.39	8.45	PK
* 4	11510	51.76	54.00	-2.24	43.31	8.45	AV
5	17265	60.06	68.20	-8.14	47.57	12.49	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(40M)_5755MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

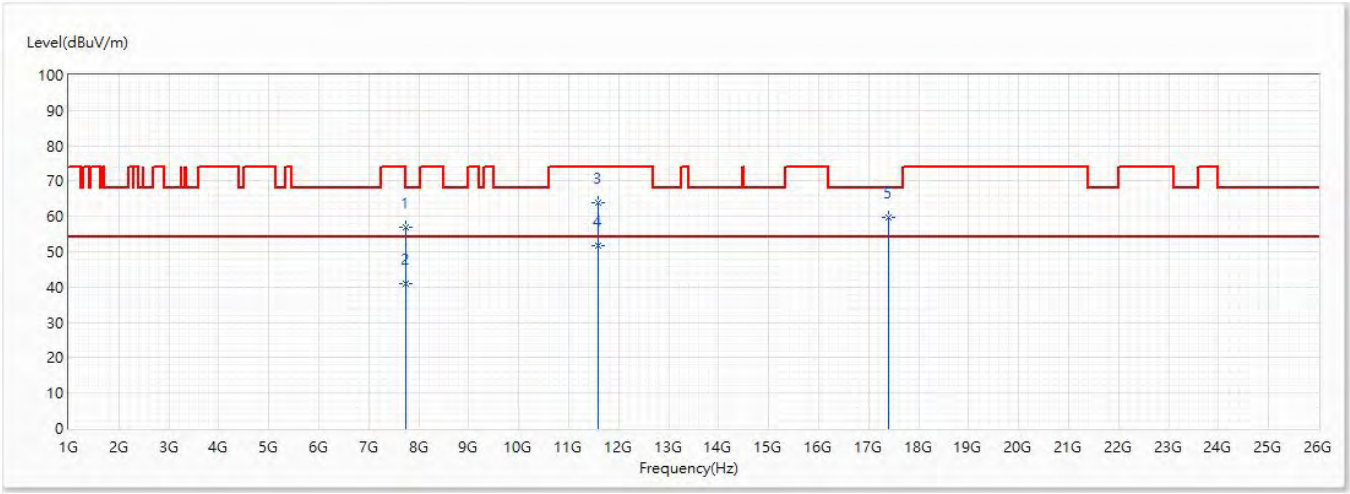


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7830	42.25	54.00	-11.75	41.07	1.18	AV
2	7830	55.26	68.20	-12.94	54.08	1.18	PK
* 3	11510	50.10	54.00	-3.90	41.65	8.45	AV
4	11510	59.10	74.00	-14.90	50.65	8.45	PK
5	17265	59.60	68.20	-8.60	47.11	12.49	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(40M)_5795MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

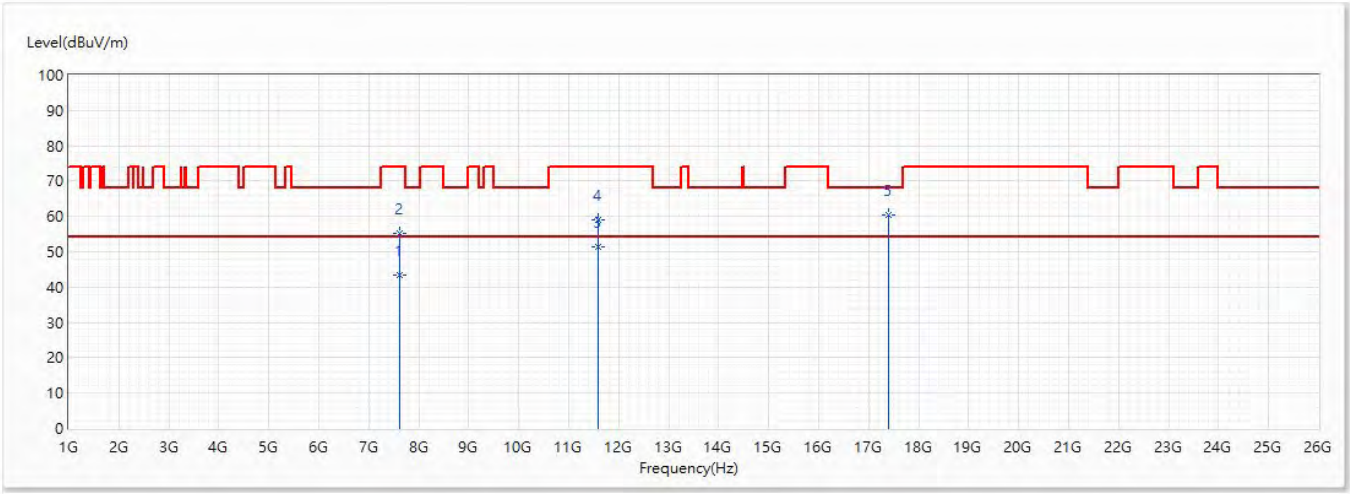


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7746	56.80	74.00	-17.20	55.72	1.08	PK
2	7746	41.11	54.00	-12.89	40.03	1.08	AV
3	11590	63.89	74.00	-10.11	55.32	8.57	PK
* 4	11590	51.69	54.00	-2.31	43.12	8.57	AV
5	17385	59.85	68.20	-8.35	46.93	12.92	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(40M)_5795MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

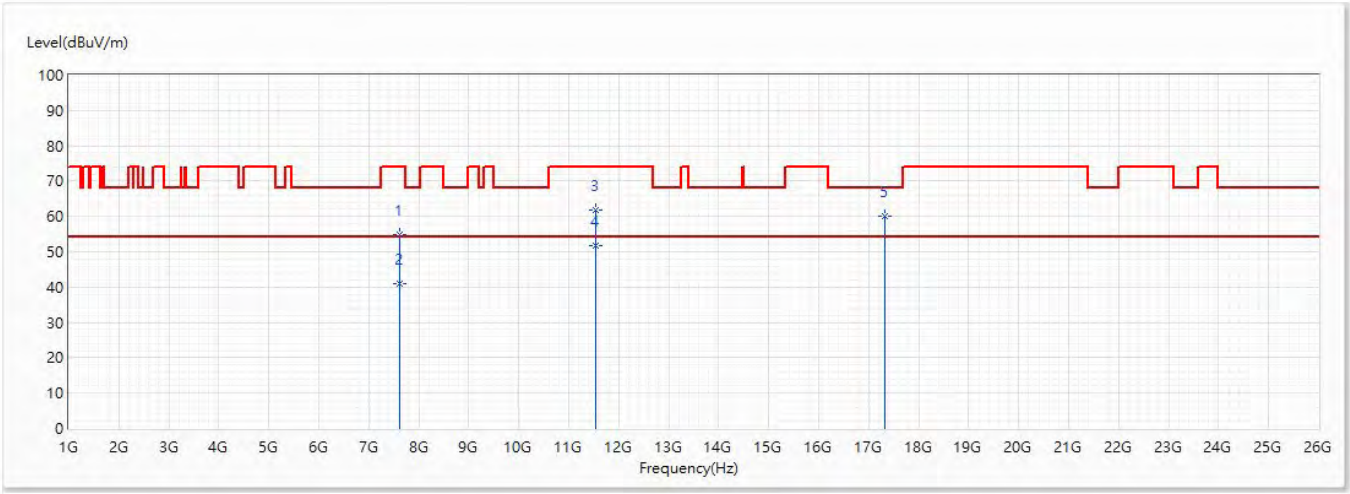


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7626	43.28	54.00	-10.72	42.34	0.94	AV
2	7626	55.17	74.00	-18.83	54.23	0.94	PK
* 3	11590	51.49	54.00	-2.51	42.92	8.57	AV
4	11590	58.90	74.00	-15.10	50.33	8.57	PK
5	17385	60.36	68.20	-7.84	47.44	12.92	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11ac(80M)_5775MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		

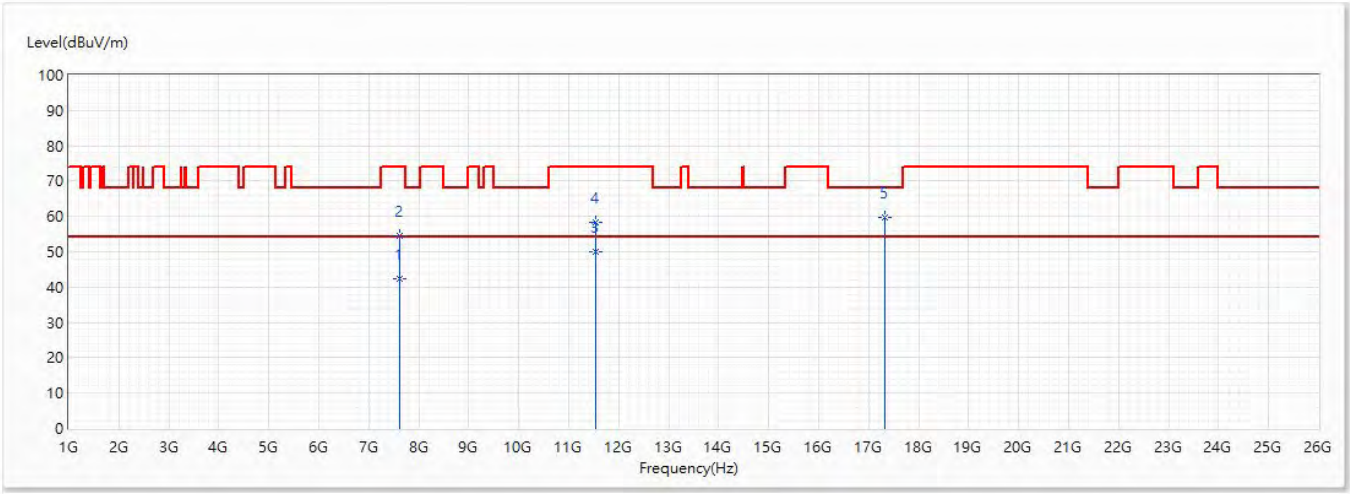


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7622	54.72	74.00	-19.28	53.79	0.93	PK
2	7622	41.11	54.00	-12.89	40.18	0.93	AV
3	11550	61.82	74.00	-12.18	53.31	8.51	PK
* 4	11550	51.82	54.00	-2.18	43.31	8.51	AV
5	17325	60.20	68.20	-8.00	47.50	12.70	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/11/3
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11ac(80M)_5775MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	7622	42.25	54.00	-11.75	41.32	0.93	AV
2	7622	54.58	74.00	-19.42	53.65	0.93	PK
* 3	11550	50.11	54.00	-3.89	41.60	8.51	AV
4	11550	58.34	74.00	-15.66	49.83	8.51	PK
5	17325	59.75	68.20	-8.45	47.05	12.70	PK

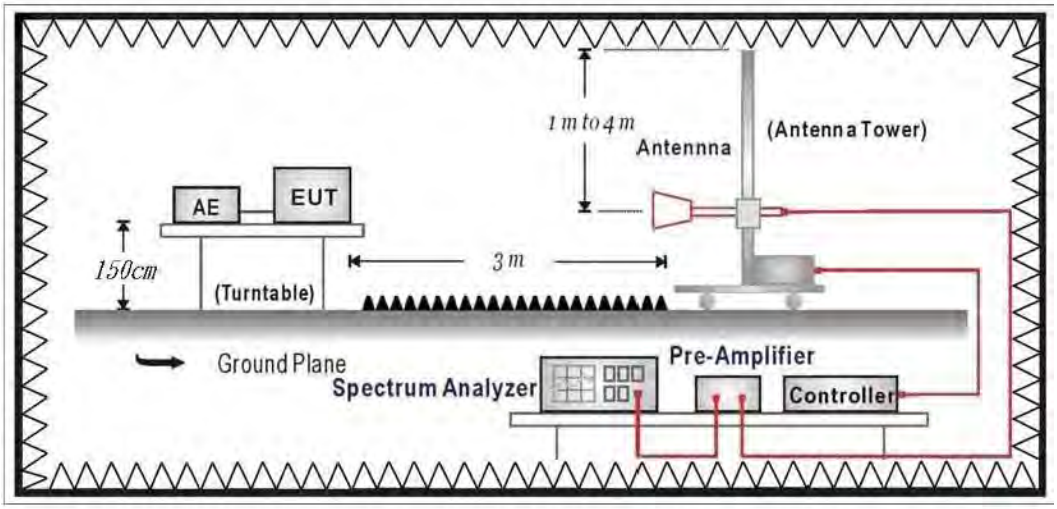
Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 18GHz were not included is because their levels are lower than 20dB from limit.

8. Band Edge

8.1. Test Setup

RF Radiated Measurement:



8.2. Limits

➢ **General Radiated Emission Limits**

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section. Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

Remark:

1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

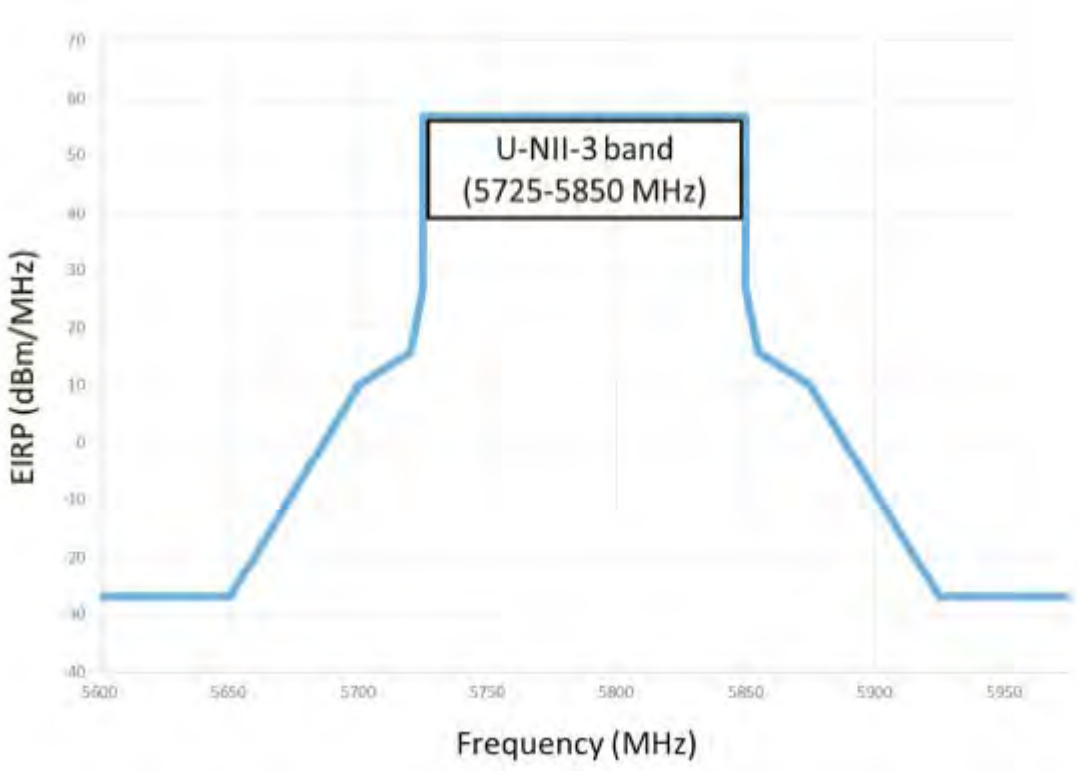
➢ **Unwanted Emission out of the restricted bands Limits**

FCC Part 15 Subpart E Paragraph 15.407(b) Limits		
Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (dBuV/m@3m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
5725 - 5850	-27 (Note1)	68.3
	-17 (Note2)	78.3

4. For transmitters operating in the 5.725-5.85 GHz band

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

(ii) Devices certified before March 2, 2018 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in Section 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in Section 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.



Remark:

1. For frequencies more than 10 MHz above or below the band edges.
2. For frequency range from the band edges to 10 MHz above or below the band edges.
3. uV/m = $\frac{1000000\sqrt{30 \times EIRP}}{3}$, RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

8.3. Test Procedure

The EUT and its simulators are placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

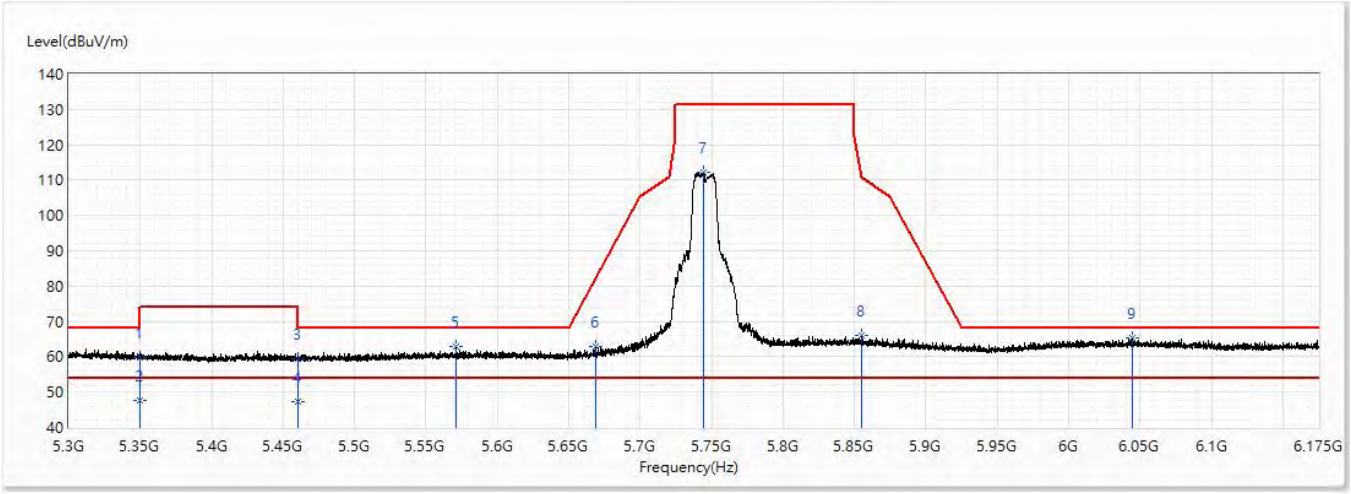
The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 KHz, above 1GHz are 1 MHz.

8.4. Test Result

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit_SISO Mode		
Note :	802.11a_5745MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	59.64	74.00	-14.36	32.12	27.52	PK
2	5350.001	47.55	54.00	-6.45	20.03	27.52	AV
3	5459.999	59.39	74.00	-14.61	31.76	27.63	PK
4	5459.999	47.36	54.00	-6.64	19.73	27.63	AV
5	5571.359	62.84	68.20	-5.36	34.77	28.07	PK
6	5668.484	63.03	81.92	-18.89	34.42	28.61	PK
7	5743.953	112.12	131.20	-19.08	83.08	29.04	PK
8	5855.406	66.06	110.69	-44.63	36.40	29.66	PK
* 9	6044.844	65.20	68.20	-3.00	34.49	30.71	PK

Note:

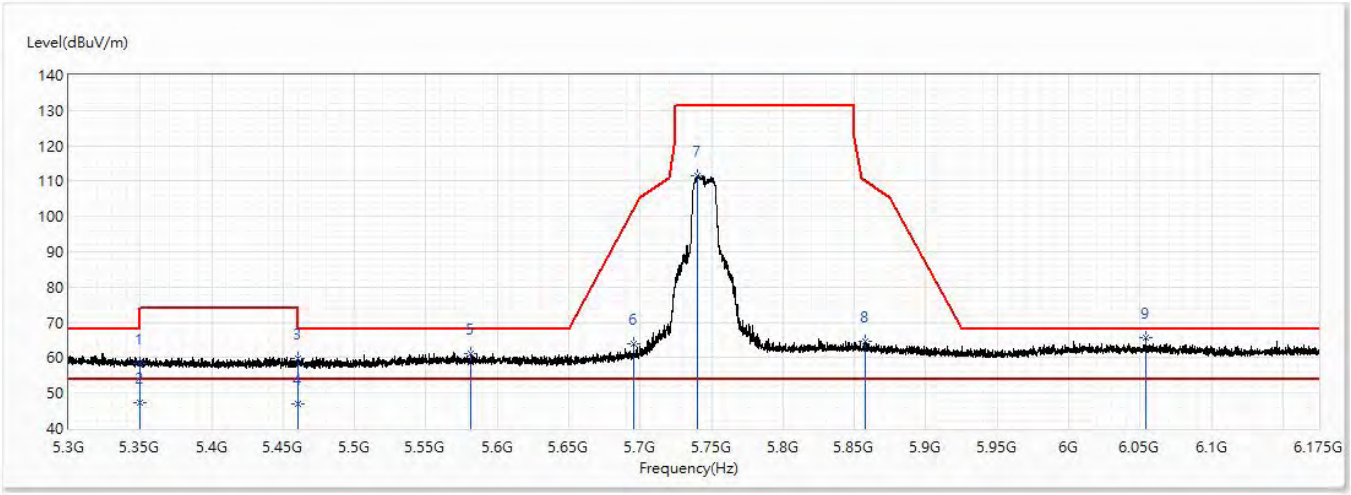
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit_SISO Mode		
Note :	802.11a_5745MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	58.34	74.00	-15.66	30.82	27.52	PK
2	5350.001	47.13	54.00	-6.87	19.61	27.52	AV
3	5459.999	59.83	74.00	-14.17	32.20	27.63	PK
4	5459.999	46.99	54.00	-7.01	19.36	27.63	AV
5	5581.203	61.15	68.20	-7.05	33.02	28.13	PK
6	5695.5	63.98	101.88	-37.90	35.22	28.76	PK
7	5740.234	111.54	131.20	-19.66	82.53	29.01	PK
8	5857.375	64.54	110.13	-45.59	34.88	29.66	PK
* 9	6054.031	65.79	68.20	-2.41	35.03	30.76	PK

Note:

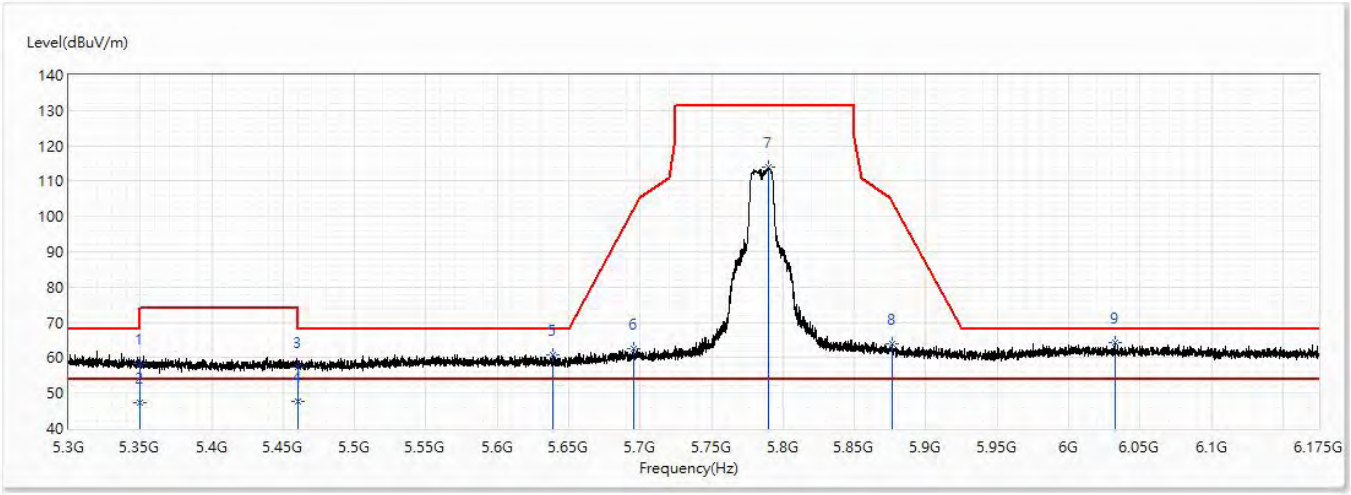
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit_SISO Mode		
Note :	802.11a_5785MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	58.35	74.00	-15.65	30.83	27.52	PK
2	5350.001	47.46	54.00	-6.54	19.94	27.52	AV
3	5459.999	57.44	74.00	-16.56	29.81	27.63	PK
4	5459.999	47.48	54.00	-6.52	19.85	27.63	AV
5	5639.172	60.77	68.20	-7.43	32.32	28.45	PK
6	5695.719	62.59	102.04	-39.46	33.83	28.76	PK
7	5790	114.05	131.20	-17.15	84.76	29.29	PK
8	5876.734	63.89	103.91	-40.02	34.12	29.77	PK
* 9	6032.703	64.20	68.20	-4.00	33.56	30.64	PK

Note:

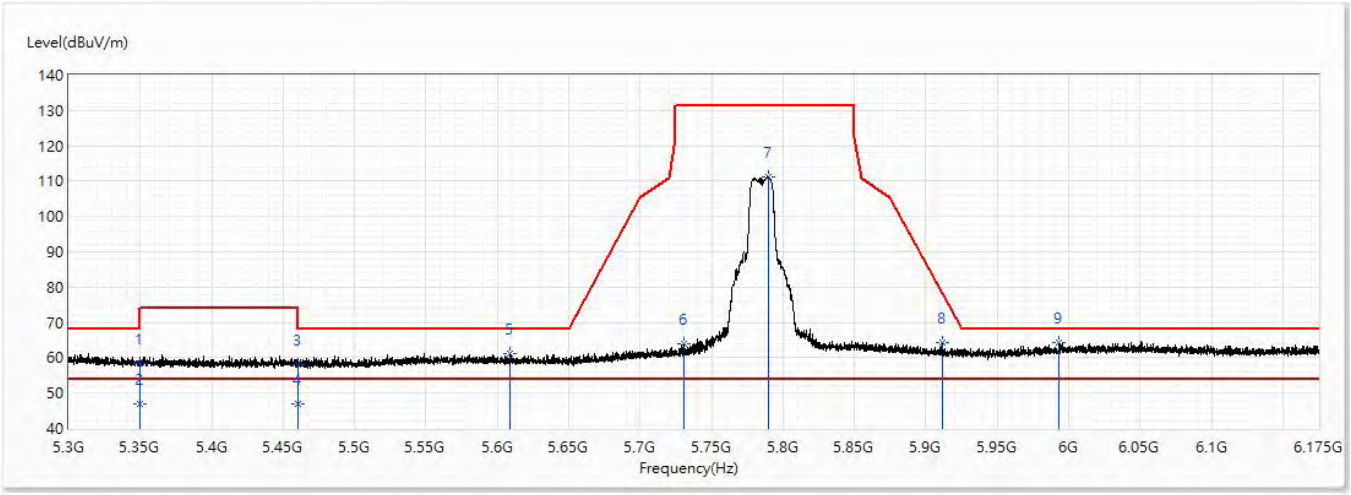
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit_SISO Mode		
Note :	802.11a_5785MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	58.57	74.00	-15.43	31.05	27.52	PK
2	5350.001	46.91	54.00	-7.09	19.39	27.52	AV
3	5459.999	57.95	74.00	-16.05	30.32	27.63	PK
4	5459.999	46.86	54.00	-7.14	19.23	27.63	AV
5	5608.875	61.16	68.20	-7.04	32.87	28.29	PK
6	5730.281	63.86	131.20	-67.34	34.91	28.95	PK
7	5790.109	111.18	131.20	-20.02	81.89	29.29	PK
8	5911.406	64.29	78.23	-13.94	34.33	29.96	PK
* 9	5993.547	64.21	68.20	-3.99	33.79	30.42	PK

Note:

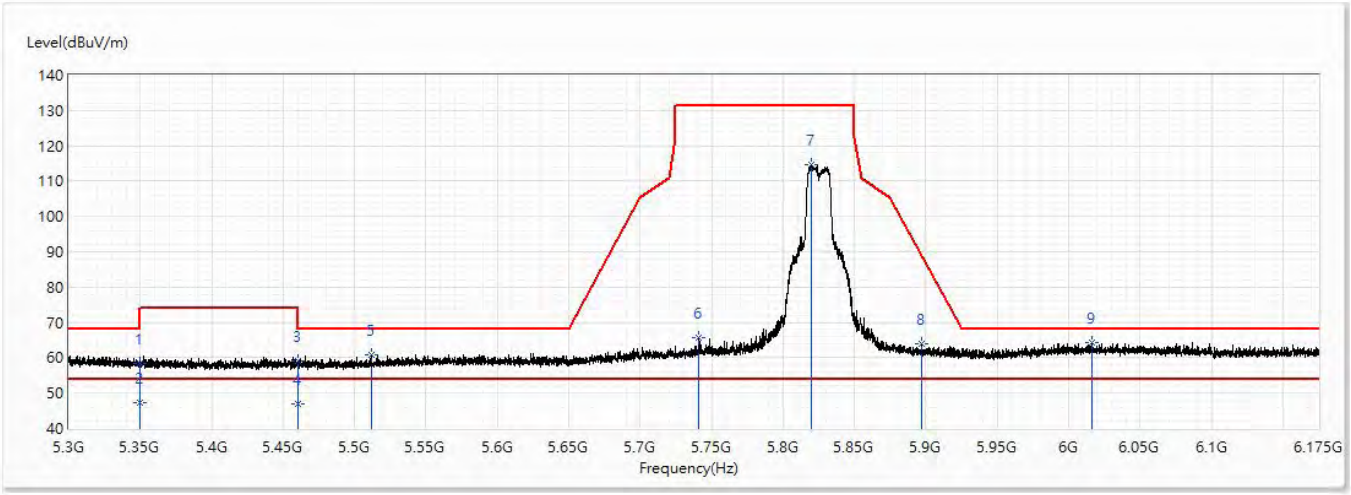
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 1: Transmit_SISO Mode		
Note :	802.11a_5825MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	58.31	74.00	-15.69	30.79	27.52	PK
2	5350.001	47.40	54.00	-6.60	19.88	27.52	AV
3	5459.999	58.98	74.00	-15.02	31.35	27.63	PK
4	5459.999	47.00	54.00	-7.00	19.37	27.63	AV
5	5511.531	60.87	68.20	-7.33	33.13	27.74	PK
6	5740.781	65.68	131.20	-65.52	36.67	29.01	PK
7	5819.969	114.50	131.20	-16.70	85.04	29.46	PK
8	5897.188	63.89	88.74	-24.85	34.01	29.88	PK
* 9	6016.406	64.20	68.20	-4.00	33.65	30.55	PK

Note:

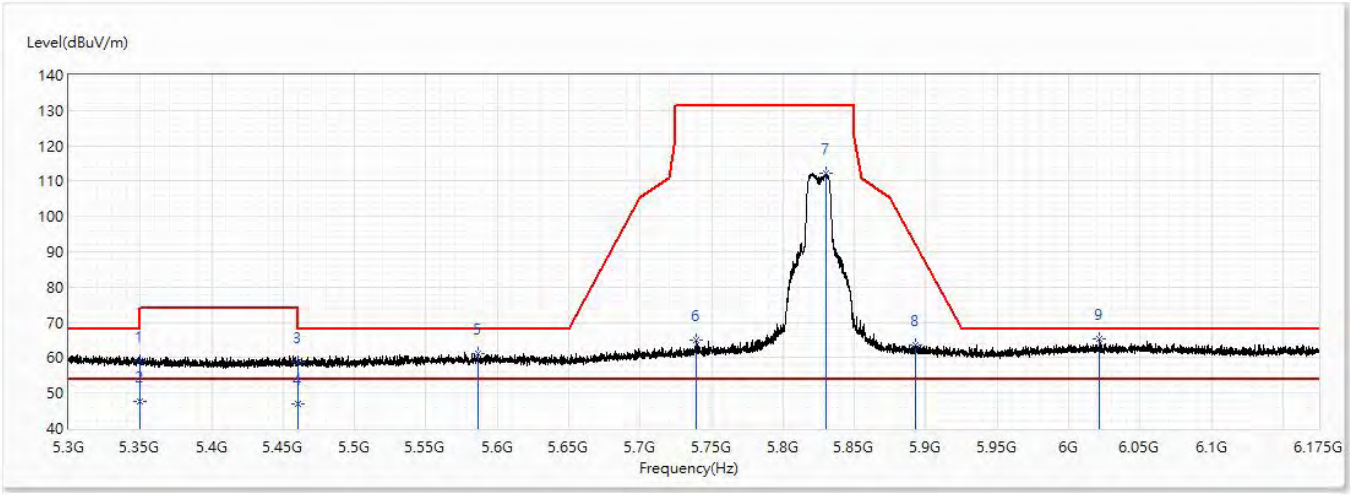
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 1: Transmit_SISO Mode		
Note :	802.11a_5825MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	59.09	74.00	-14.91	31.57	27.52	PK
2	5350.001	47.70	54.00	-6.30	20.18	27.52	AV
3	5459.999	58.59	74.00	-15.41	30.96	27.63	PK
4	5459.999	47.11	54.00	-6.89	19.48	27.63	AV
5	5586.563	61.09	68.20	-7.11	32.93	28.16	PK
6	5738.922	64.85	131.20	-66.35	35.85	29.00	PK
7	5829.922	112.08	131.20	-19.12	82.57	29.51	PK
8	5892.922	63.64	91.90	-28.26	33.77	29.87	PK
* 9	6021.219	65.44	68.20	-2.76	34.86	30.58	PK

Note:

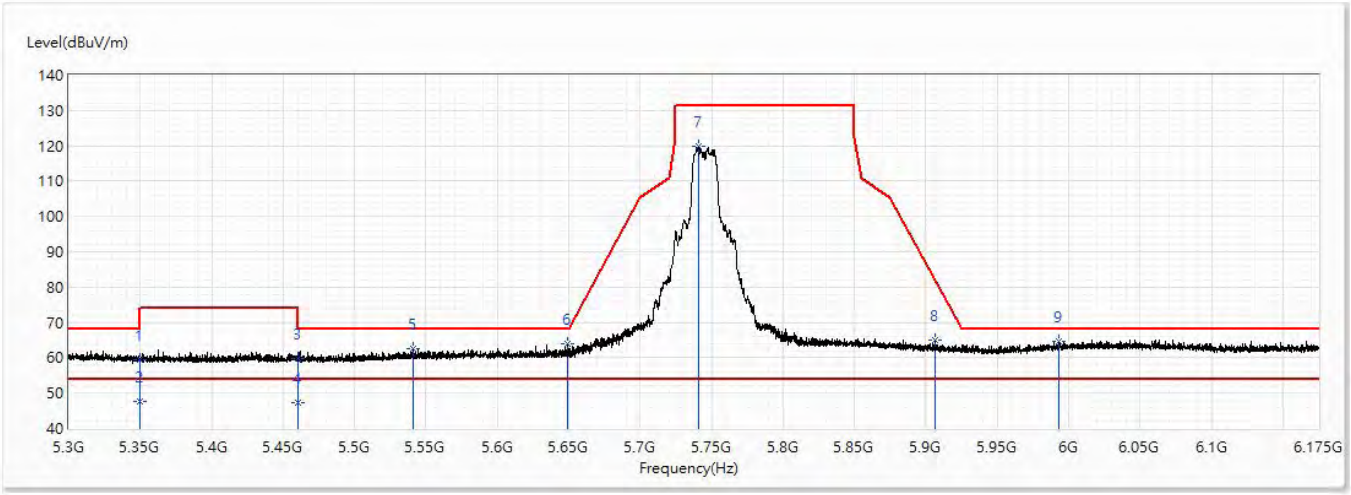
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(20M)_5745MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	59.40	74.00	-14.60	31.88	27.52	PK
2	5350.001	47.53	54.00	-6.47	20.01	27.52	AV
3	5459.999	59.72	74.00	-14.28	32.09	27.63	PK
4	5459.999	47.31	54.00	-6.69	19.68	27.63	AV
5	5540.625	62.50	68.20	-5.70	34.61	27.89	PK
6	5649.234	63.95	68.20	-4.25	35.45	28.50	PK
7	5740.563	119.86	131.20	-11.34	90.85	29.01	PK
8	5906.375	64.86	81.95	-17.08	34.93	29.93	PK
* 9	5993	64.53	68.20	-3.67	34.11	30.42	PK

Note:

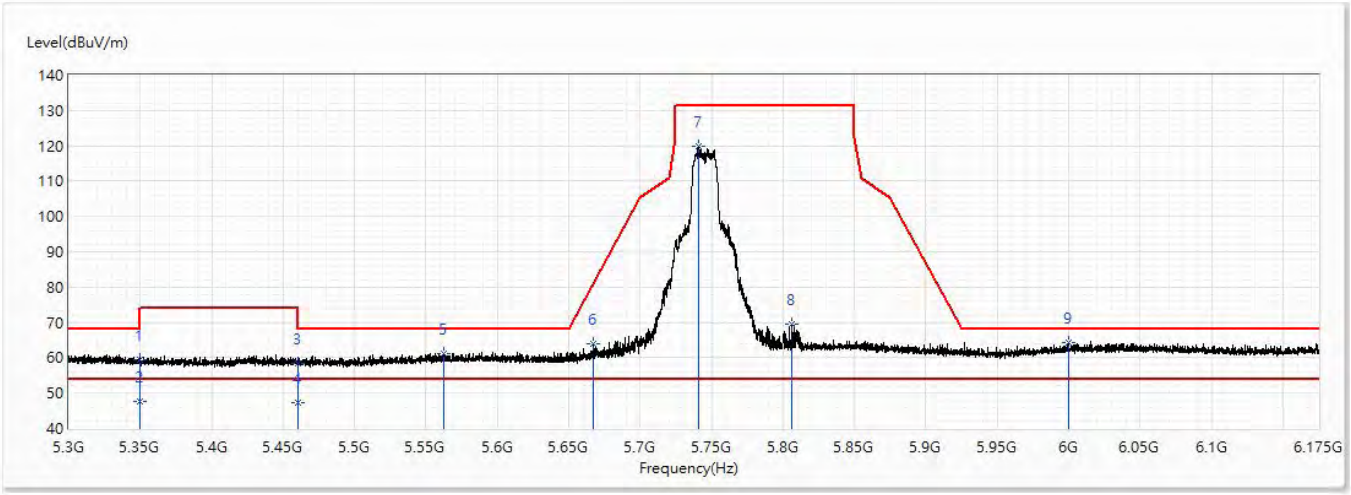
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(20M)_5745MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	59.42	74.00	-14.58	31.90	27.52	PK
2	5350.001	47.47	54.00	-6.53	19.95	27.52	AV
3	5459.999	58.31	74.00	-15.69	30.68	27.63	PK
4	5459.999	47.37	54.00	-6.63	19.74	27.63	AV
5	5562.281	61.16	68.20	-7.04	33.15	28.01	PK
6	5666.953	63.87	80.78	-16.91	35.27	28.60	PK
7	5740.563	119.86	131.20	-11.34	90.85	29.01	PK
8	5805.859	69.52	131.20	-61.68	40.14	29.38	PK
* 9	6000.109	64.30	68.20	-3.90	33.84	30.46	PK

Note:

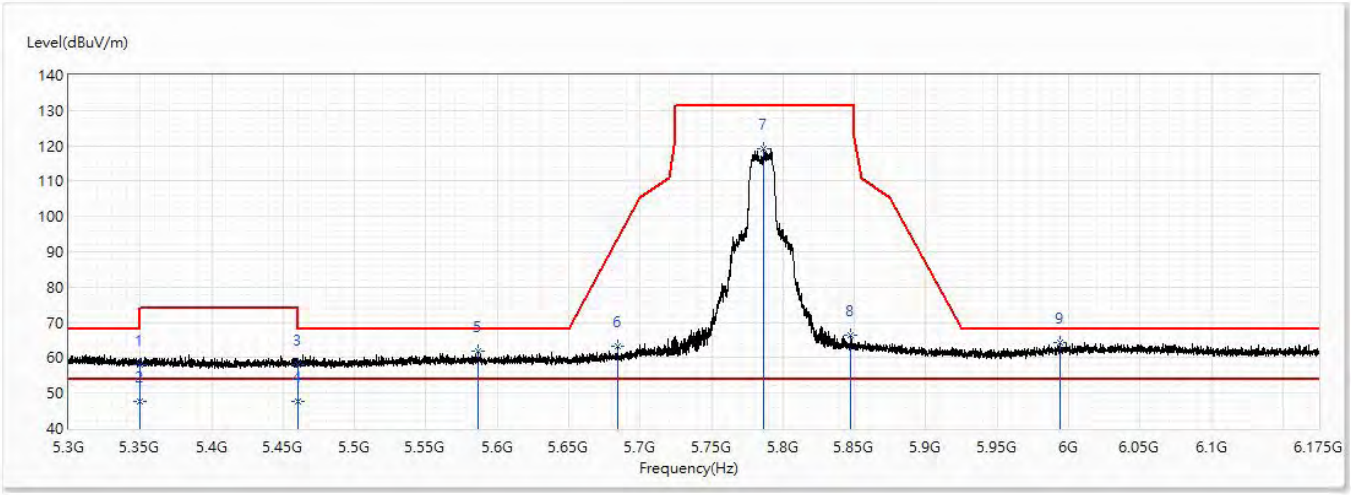
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(20M)_5785MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	58.20	74.00	-15.80	30.68	27.52	PK
2	5350.001	47.63	54.00	-6.37	20.11	27.52	AV
3	5459.999	58.16	74.00	-15.84	30.53	27.63	PK
4	5459.999	47.49	54.00	-6.51	19.86	27.63	AV
5	5586.563	61.81	68.20	-6.39	33.65	28.16	PK
6	5684.453	63.30	93.73	-30.43	34.60	28.70	PK
7	5786.5	119.19	131.20	-12.01	89.92	29.27	PK
8	5847.641	66.39	131.20	-64.81	36.77	29.62	PK
* 9	5993.656	64.20	68.20	-4.00	33.78	30.42	PK

Note:

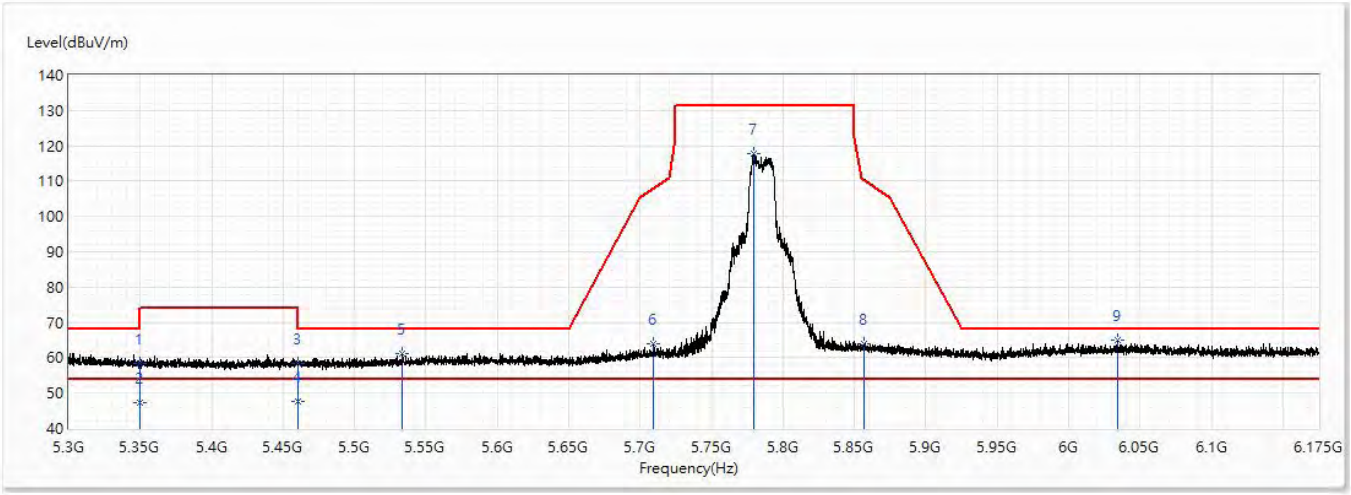
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(20M)_5785MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	58.56	74.00	-15.44	31.04	27.52	PK
2	5350.001	47.24	54.00	-6.76	19.72	27.52	AV
3	5459.999	58.42	74.00	-15.58	30.79	27.63	PK
4	5459.999	47.47	54.00	-6.53	19.84	27.63	AV
5	5533.734	61.14	68.20	-7.06	33.28	27.86	PK
6	5709.609	63.90	107.89	-43.99	35.06	28.84	PK
7	5779.5	117.73	131.20	-13.47	88.51	29.22	PK
8	5856.609	63.82	110.35	-46.52	34.16	29.66	PK
* 9	6034.453	64.84	68.20	-3.36	34.18	30.66	PK

Note:

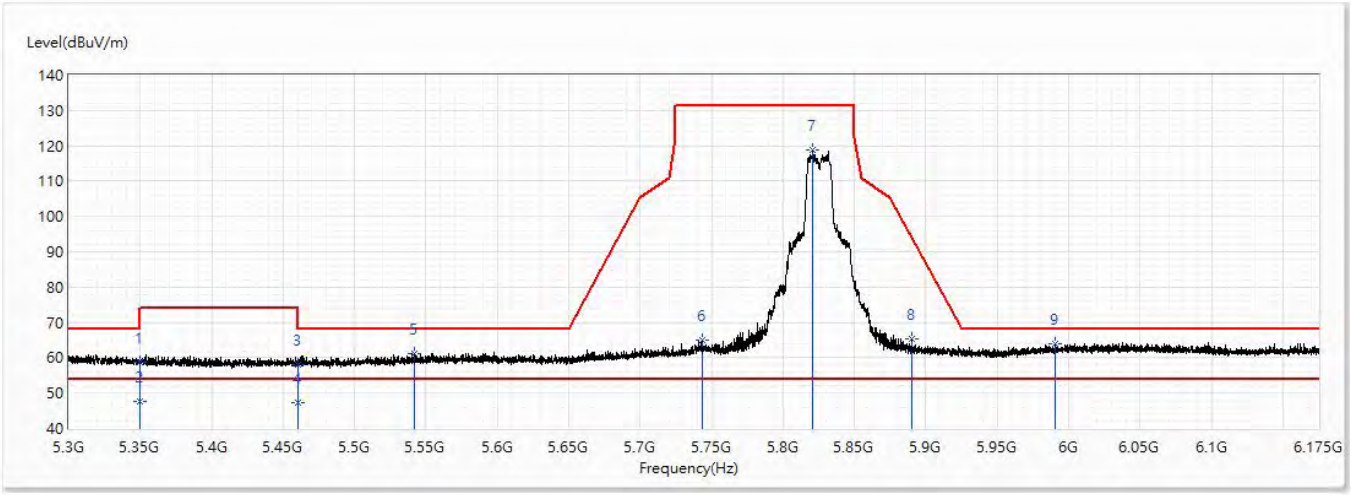
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(20M)_5825MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	58.81	74.00	-15.19	31.29	27.52	PK
2	5350.001	47.69	54.00	-6.31	20.17	27.52	AV
3	5459.999	58.13	74.00	-15.87	30.50	27.63	PK
4	5459.999	47.22	54.00	-6.78	19.59	27.63	AV
5	5541.828	61.24	68.20	-6.96	33.33	27.91	PK
6	5743.078	64.94	131.20	-66.26	35.91	29.03	PK
7	5820.844	118.94	131.20	-12.26	89.48	29.46	PK
8	5889.969	65.18	94.09	-28.91	35.34	29.84	PK
* 9	5990.484	63.80	68.20	-4.40	33.39	30.41	PK

Note:

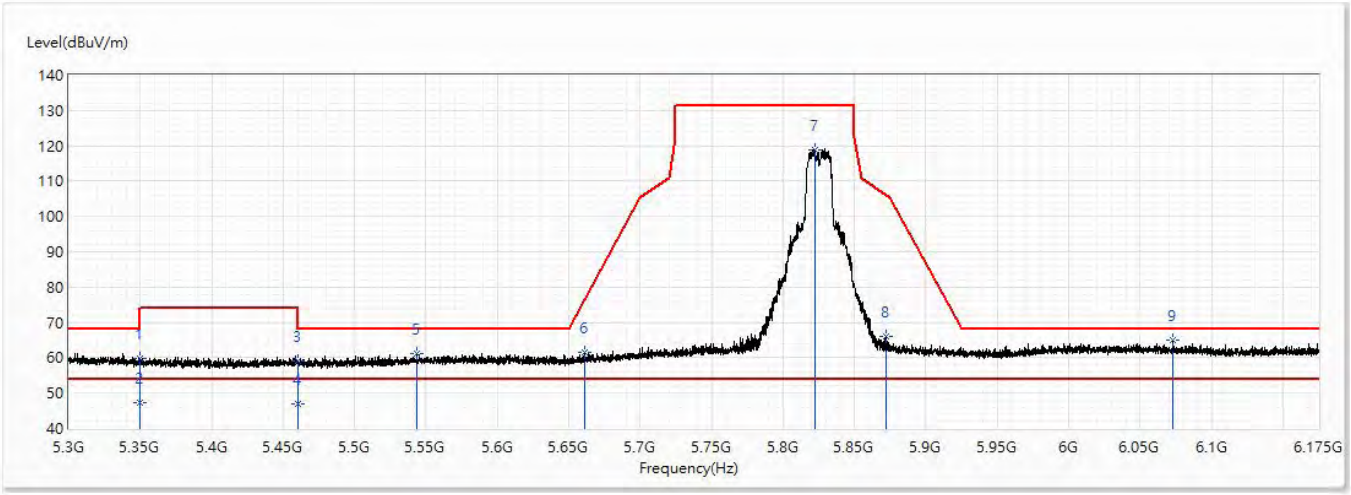
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(20M)_5825MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	59.72	74.00	-14.28	32.20	27.52	PK
2	5350.001	47.24	54.00	-6.76	19.72	27.52	AV
3	5459.999	59.03	74.00	-14.97	31.40	27.63	PK
4	5459.999	47.07	54.00	-6.93	19.44	27.63	AV
5	5543.688	61.21	68.20	-6.99	33.29	27.92	PK
6	5661.375	61.45	76.65	-15.20	32.88	28.57	PK
7	5822.156	118.77	131.20	-12.43	89.30	29.47	PK
8	5872.031	65.92	106.03	-40.11	36.17	29.75	PK
* 9	6073.172	64.94	68.20	-3.26	34.07	30.87	PK

Note:

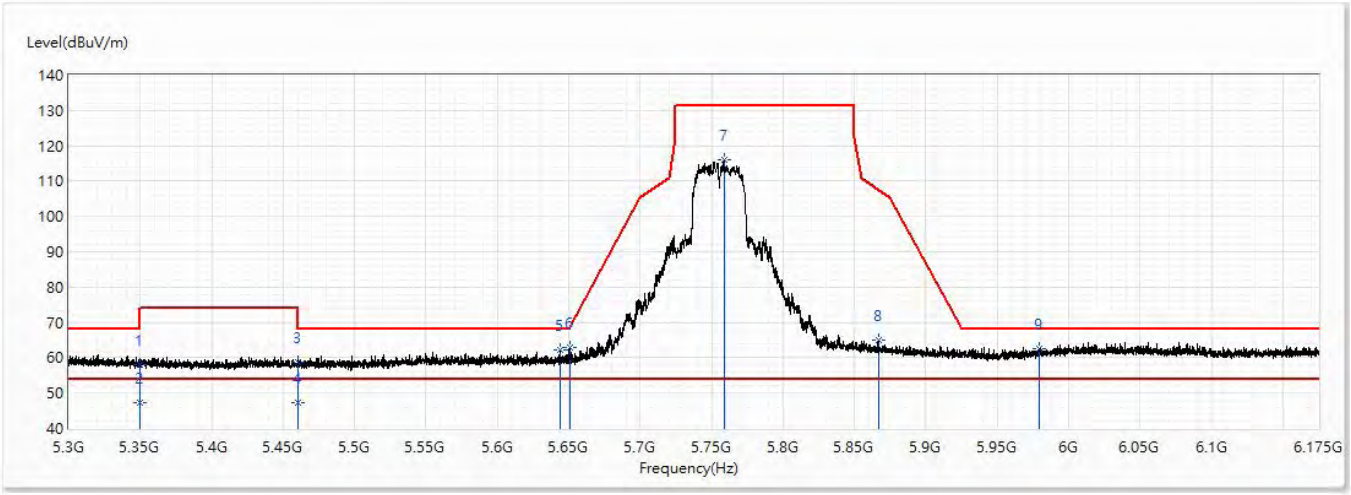
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(40M)_5755MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	57.95	74.00	-16.05	30.43	27.52	PK
2	5350.001	47.36	54.00	-6.64	19.84	27.52	AV
3	5459.999	58.67	74.00	-15.33	31.04	27.63	PK
4	5459.999	47.31	54.00	-6.69	19.68	27.63	AV
5	5643.875	62.08	68.20	-6.12	33.61	28.47	PK
6	5651.203	63.08	69.09	-6.02	34.57	28.51	PK
7	5758.938	115.89	131.20	-15.31	86.77	29.12	PK
8	5866.672	64.84	107.53	-42.69	35.13	29.71	PK
* 9	5979	62.69	68.20	-5.51	32.35	30.34	PK

Note:

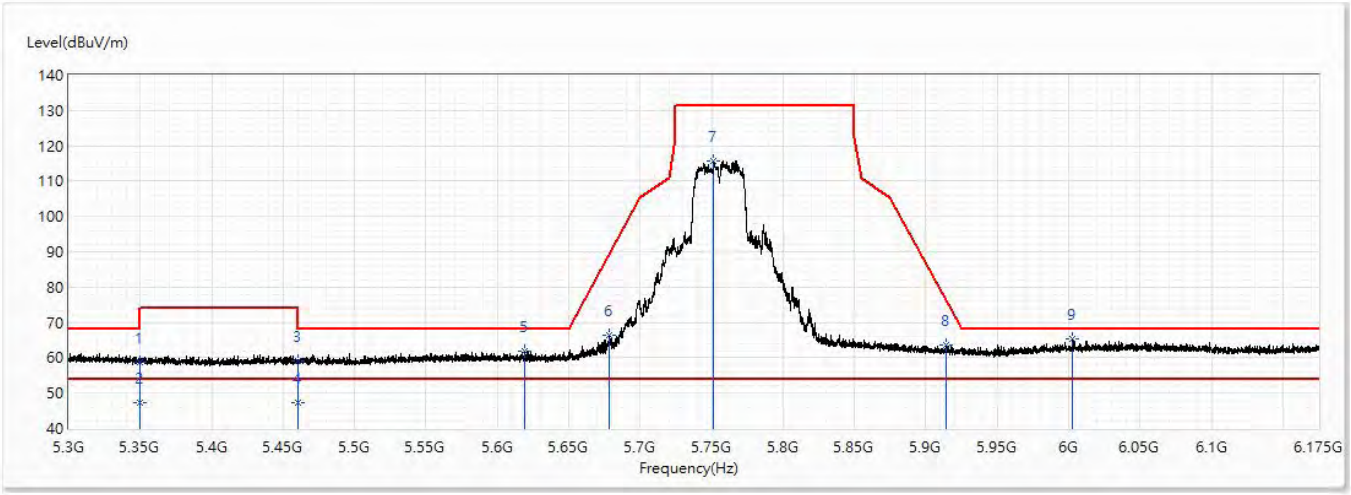
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(40M)_5755MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	58.92	74.00	-15.08	31.40	27.52	PK
2	5350.001	47.12	54.00	-6.88	19.60	27.52	AV
3	5459.999	59.16	74.00	-14.84	31.53	27.63	PK
4	5459.999	47.16	54.00	-6.84	19.53	27.63	AV
5	5619.156	61.76	68.20	-6.44	33.43	28.33	PK
6	5678.656	66.29	89.45	-23.15	37.62	28.67	PK
7	5751.609	115.59	131.20	-15.61	86.52	29.07	PK
8	5914.469	63.51	75.97	-12.46	33.52	29.99	PK
* 9	6002.953	65.23	68.20	-2.97	34.76	30.47	PK

Note:

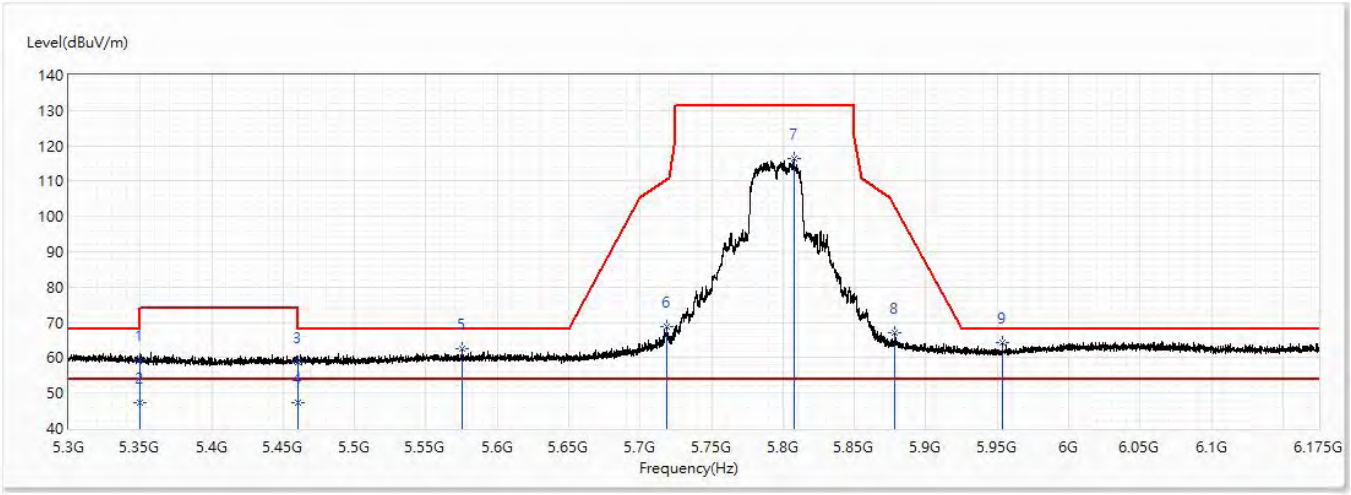
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(40M)_5795MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	59.33	74.00	-14.67	31.81	27.52	PK
2	5350.001	47.23	54.00	-6.77	19.71	27.52	AV
3	5459.999	58.77	74.00	-15.23	31.14	27.63	PK
4	5459.999	47.33	54.00	-6.67	19.70	27.63	AV
5	5574.969	62.44	68.20	-5.76	34.36	28.08	PK
6	5718.797	68.71	110.46	-41.76	39.83	28.88	PK
7	5807.609	116.44	131.20	-14.76	87.06	29.38	PK
8	5877.938	67.12	103.02	-35.90	37.34	29.78	PK
* 9	5953.406	64.30	68.20	-3.90	34.09	30.21	PK

Note:

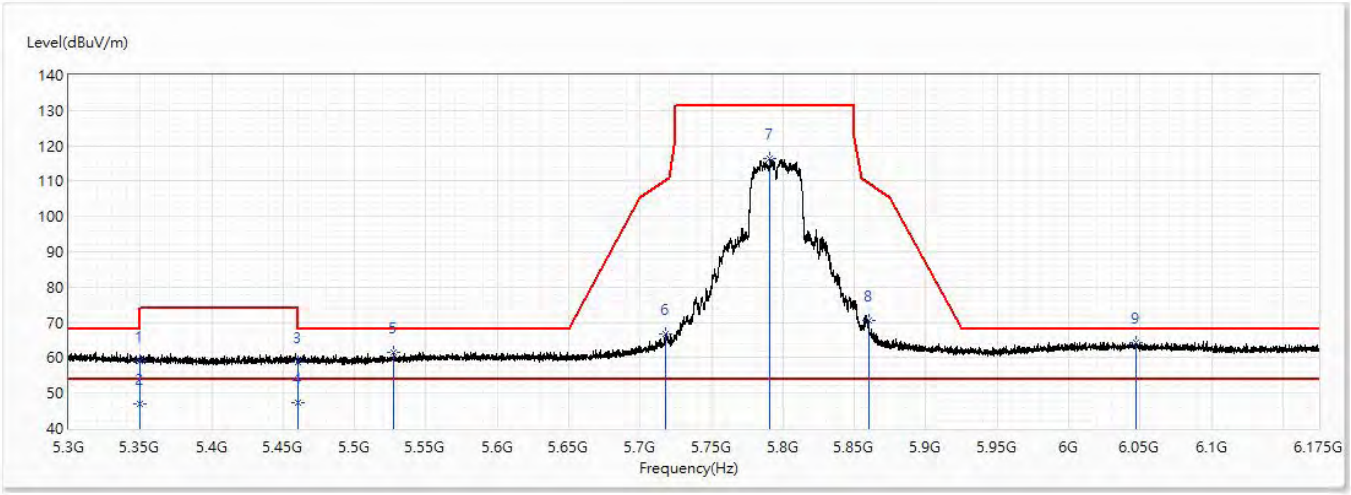
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11n(40M)_5795MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	58.94	74.00	-15.06	31.42	27.52	PK
2	5350.001	46.90	54.00	-7.10	19.38	27.52	AV
3	5459.999	58.90	74.00	-15.10	31.27	27.63	PK
4	5459.999	47.17	54.00	-6.83	19.54	27.63	AV
5	5527.391	61.50	68.20	-6.70	33.67	27.83	PK
6	5717.922	66.61	110.22	-43.61	37.73	28.88	PK
7	5791.094	116.30	131.20	-14.90	87.01	29.29	PK
8	5859.891	70.48	109.43	-38.95	40.80	29.68	PK
* 9	6047.469	64.17	68.20	-4.03	33.45	30.72	PK

Note:

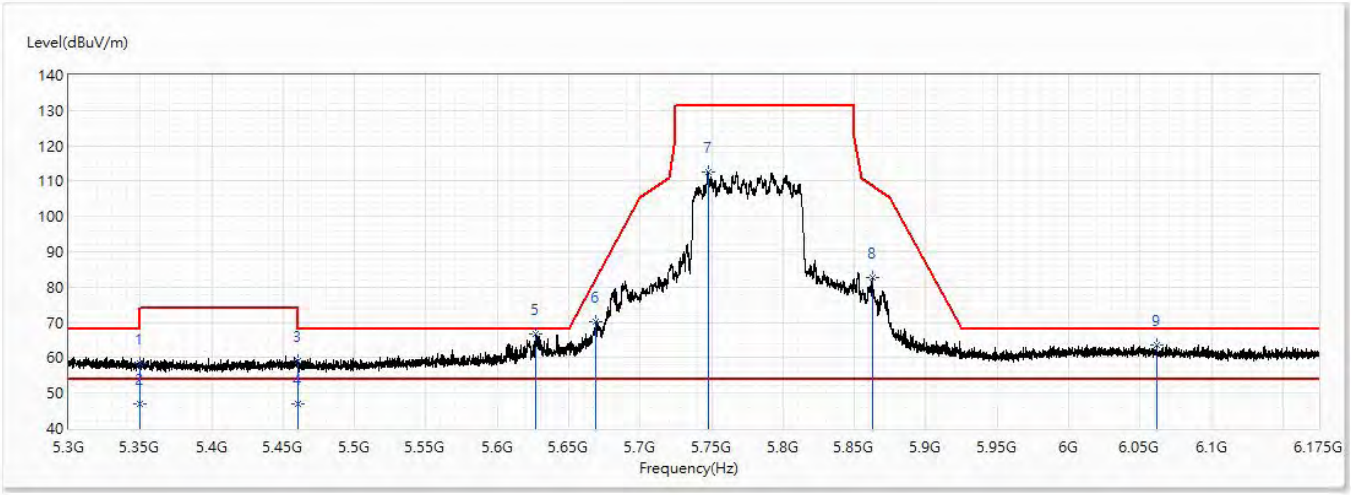
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11ac(80M)_5775MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	58.46	74.00	-15.54	30.94	27.52	PK
2	5350.001	47.11	54.00	-6.89	19.59	27.52	AV
3	5459.999	59.22	74.00	-14.78	31.59	27.63	PK
4	5459.999	47.01	54.00	-6.99	19.38	27.63	AV
* 5	5626.922	66.74	68.20	-1.46	38.36	28.38	PK
6	5668.922	70.32	82.24	-11.92	41.71	28.61	PK
7	5747.453	112.70	131.20	-18.50	83.65	29.05	PK
8	5862.625	82.68	108.66	-25.99	52.99	29.69	PK
9	6061.688	63.75	68.20	-4.45	32.95	30.80	PK

Note:

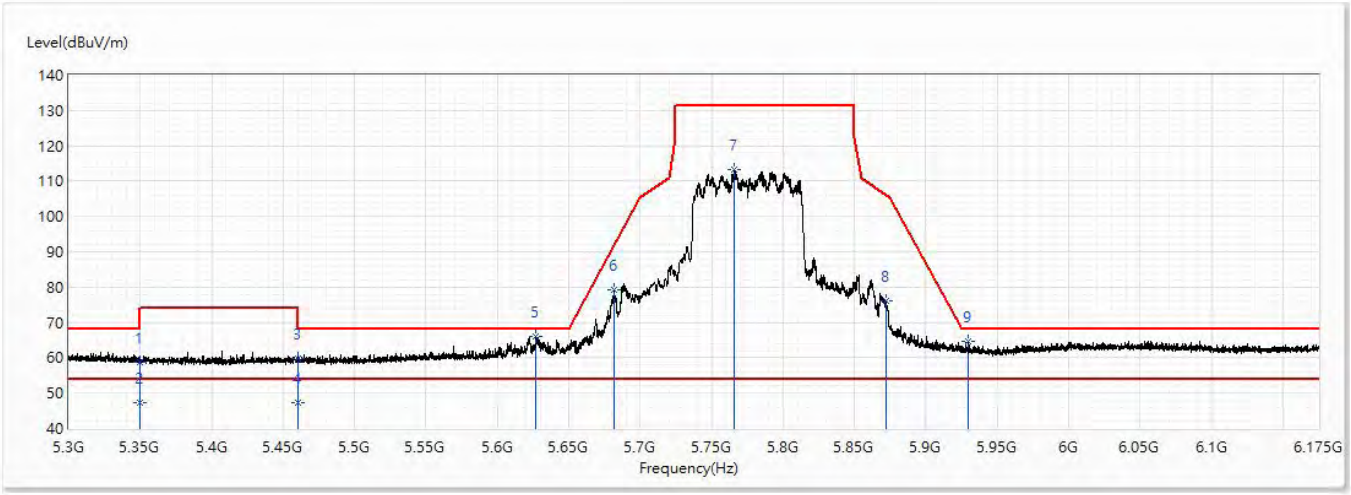
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/8
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 2: Transmit_MIMO Mode		
Note :	802.11ac(80M)_5775MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	58.81	74.00	-15.19	31.29	27.52	PK
2	5350.001	47.17	54.00	-6.83	19.65	27.52	AV
3	5459.999	59.73	74.00	-14.27	32.10	27.63	PK
4	5459.999	47.33	54.00	-6.67	19.70	27.63	AV
* 5	5627.031	65.98	68.20	-2.22	37.60	28.38	PK
6	5681.719	79.21	91.71	-12.50	50.53	28.68	PK
7	5765.828	113.17	131.20	-18.03	84.01	29.16	PK
8	5872.141	76.23	106.00	-29.77	46.48	29.75	PK
9	5929.563	64.52	68.20	-3.68	34.45	30.07	PK

Note:

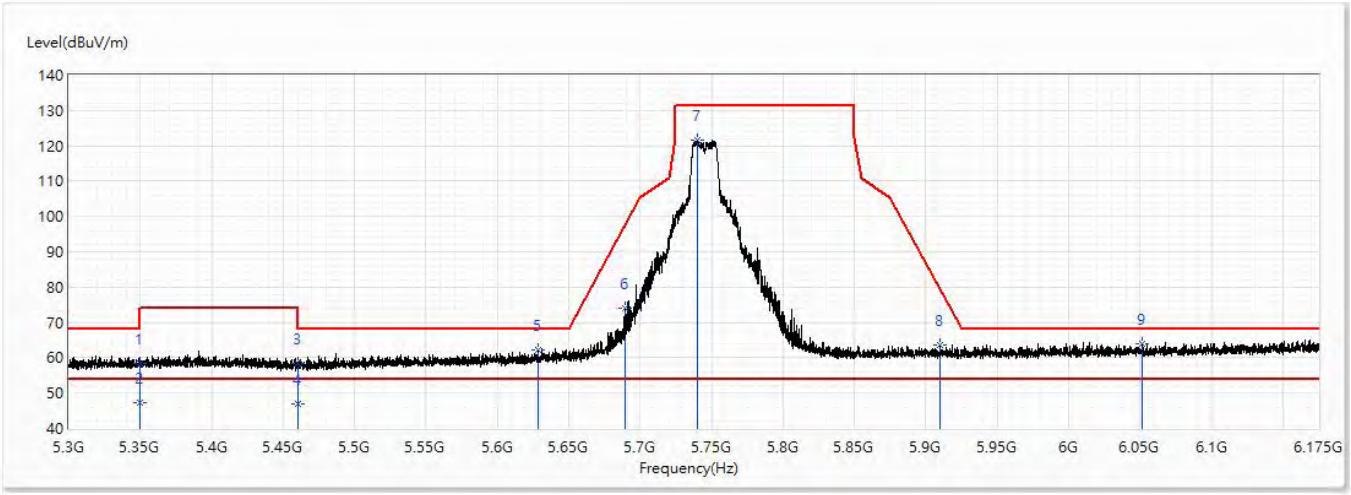
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

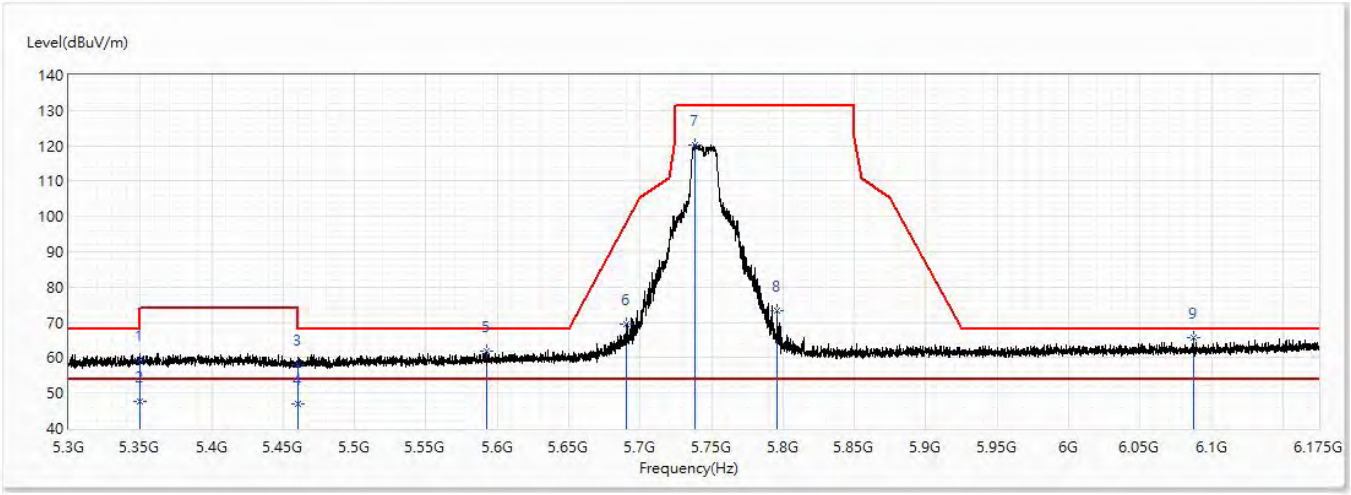
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 3: Transmit_Beamforming Mode		
Note :	802.11n(20M)_5745MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	58.37	74.00	-15.63	30.85	27.52	PK
2	5350.001	47.29	54.00	-6.71	19.77	27.52	AV
3	5459.999	58.31	74.00	-15.69	30.68	27.63	PK
4	5459.999	47.10	54.00	-6.90	19.47	27.63	AV
5	5628.453	62.26	68.20	-5.94	33.88	28.38	PK
6	5689.484	74.11	97.45	-23.33	45.39	28.72	PK
7	5739.688	121.52	131.20	-9.68	92.52	29.00	PK
8	5909.656	63.72	79.52	-15.80	33.76	29.96	PK
* 9	6051.188	64.09	68.20	-4.11	33.35	30.74	PK

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 3: Transmit_Beamforming Mode		
Note :	802.11n(20M)_5745MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	59.33	74.00	-14.67	31.81	27.52	PK
2	5350.001	47.51	54.00	-6.49	19.99	27.52	AV
3	5459.999	58.13	74.00	-15.87	30.50	27.63	PK
4	5459.999	46.88	54.00	-7.12	19.25	27.63	AV
5	5592.688	61.97	68.20	-6.23	33.78	28.19	PK
6	5690.688	69.67	98.33	-28.67	40.93	28.74	PK
7	5738.375	120.19	131.20	-11.01	91.19	29.00	PK
8	5795.578	73.42	131.20	-57.78	44.10	29.32	PK
* 9	6087.172	65.64	68.20	-2.56	34.69	30.95	PK

Note:

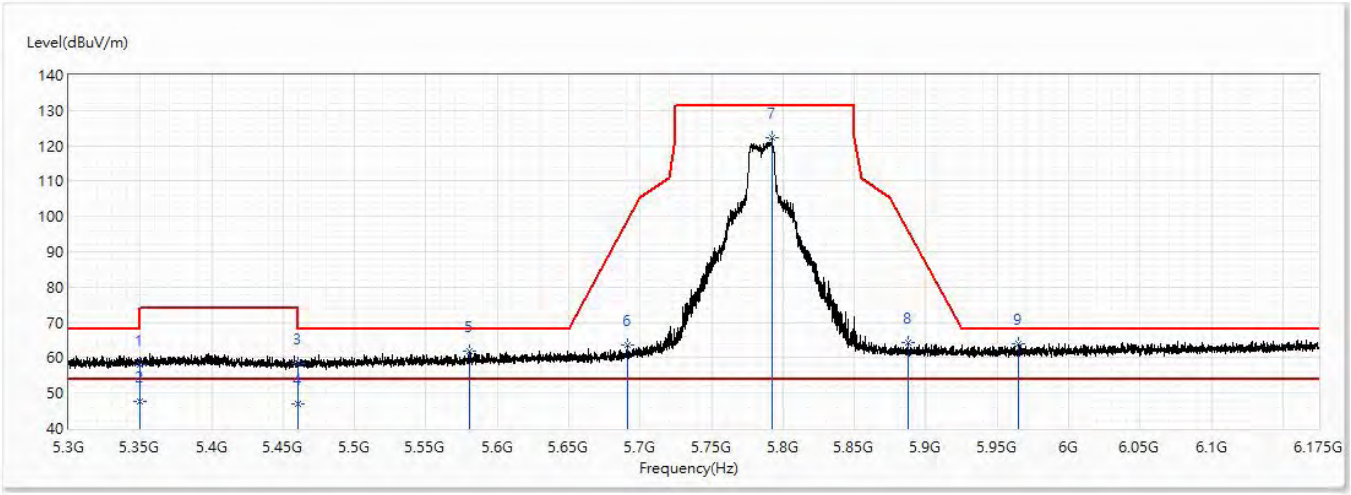
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 3: Transmit_Beamforming Mode		
Note :	802.11n(20M)_5785MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	58.21	74.00	-15.79	30.69	27.52	PK
2	5350.001	47.50	54.00	-6.50	19.98	27.52	AV
3	5459.999	58.55	74.00	-15.45	30.92	27.63	PK
4	5459.999	47.11	54.00	-6.89	19.48	27.63	AV
5	5580.766	61.98	68.20	-6.22	33.85	28.13	PK
6	5691.125	63.57	98.66	-35.08	34.83	28.74	PK
7	5792.516	122.28	131.20	-8.92	92.98	29.30	PK
8	5887.563	64.16	95.87	-31.72	34.32	29.84	PK
* 9	5964.672	63.97	68.20	-4.23	33.71	30.26	PK

Note:

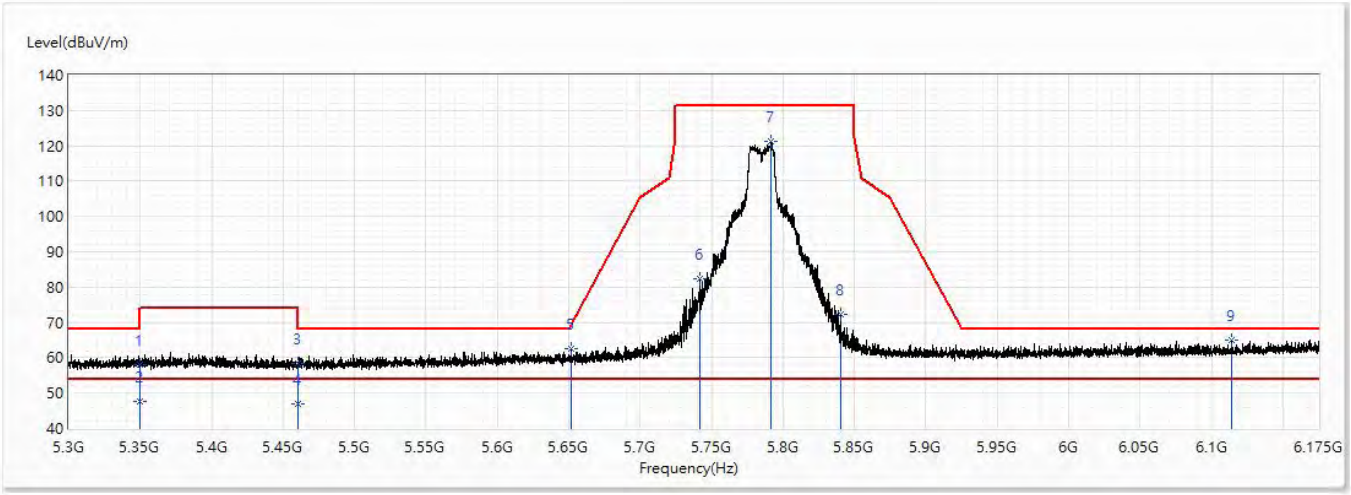
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 3: Transmit_Beamforming Mode		
Note :	802.11n(20M)_5785MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	57.94	74.00	-16.06	30.42	27.52	PK
2	5350.001	47.48	54.00	-6.52	19.96	27.52	AV
3	5459.999	58.42	74.00	-15.58	30.79	27.63	PK
4	5459.999	47.11	54.00	-6.89	19.48	27.63	AV
5	5651.422	62.69	69.26	-6.56	34.18	28.51	PK
6	5741.547	82.47	131.20	-48.73	53.46	29.01	PK
7	5791.422	121.13	131.20	-10.07	91.84	29.29	PK
8	5840.203	72.37	131.20	-58.83	42.80	29.57	PK
* 9	6114.188	64.98	68.20	-3.22	33.89	31.09	PK

Note:

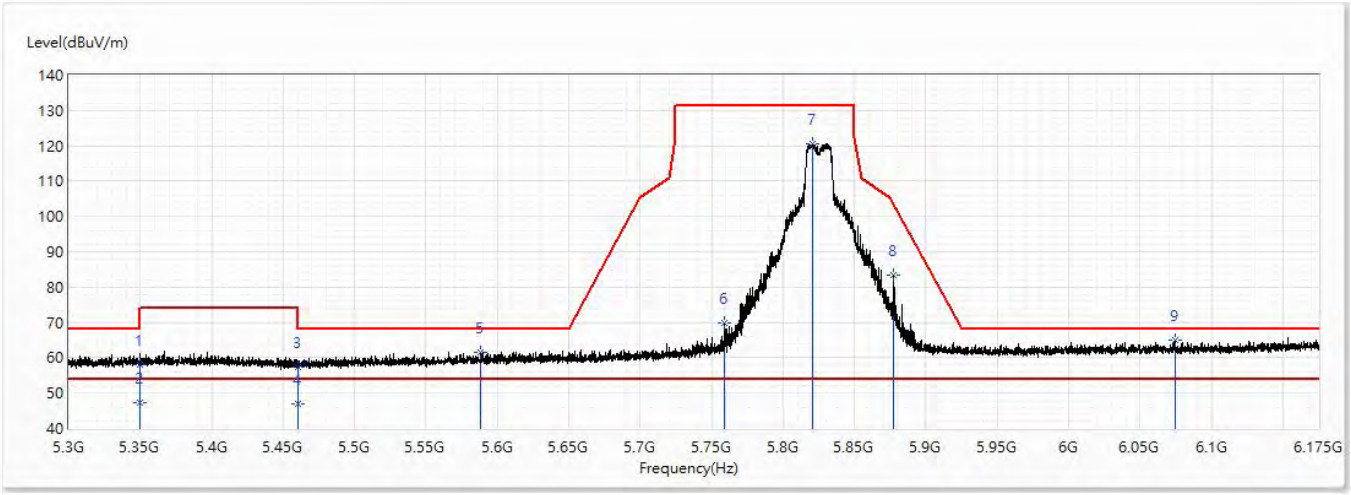
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 3: Transmit_Beamforming Mode		
Note :	802.11n(20M)_5825MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	58.18	74.00	-15.82	30.66	27.52	PK
2	5350.001	47.39	54.00	-6.61	19.87	27.52	AV
3	5459.999	57.48	74.00	-16.52	29.85	27.63	PK
4	5459.999	46.92	54.00	-7.08	19.29	27.63	AV
5	5588.313	61.47	68.20	-6.73	33.30	28.17	PK
6	5759.156	70.02	131.20	-61.18	40.90	29.12	PK
7	5821.063	120.66	131.20	-10.54	91.20	29.46	PK
8	5877.719	83.31	103.18	-19.87	53.53	29.78	PK
* 9	6074.703	64.97	68.20	-3.23	34.10	30.87	PK

Note:

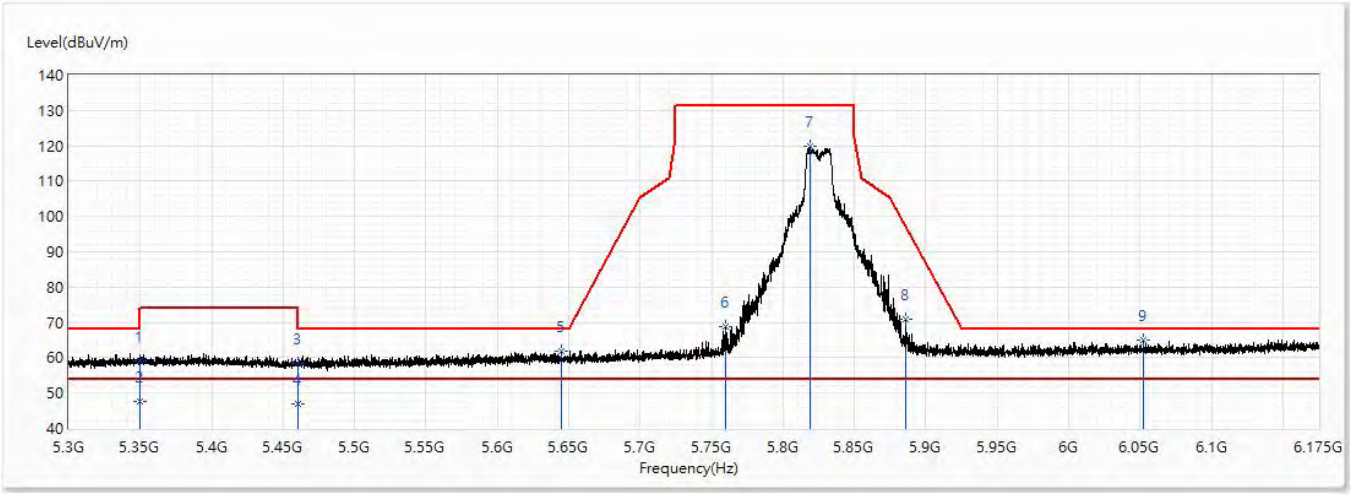
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it’s not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 3: Transmit_Beamforming Mode		
Note :	802.11n(20M)_5825MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	59.27	74.00	-14.73	31.75	27.52	PK
2	5350.001	47.63	54.00	-6.37	20.11	27.52	AV
3	5459.999	58.24	74.00	-15.76	30.61	27.63	PK
4	5459.999	46.80	54.00	-7.20	19.17	27.63	AV
5	5644.859	61.87	68.20	-6.33	33.40	28.47	PK
6	5759.375	68.69	131.20	-62.51	39.57	29.12	PK
7	5819.203	119.72	131.20	-11.48	90.27	29.45	PK
8	5885.813	70.94	97.17	-26.24	41.12	29.82	PK
* 9	6052.391	65.13	68.20	-3.07	34.38	30.75	PK

Note:

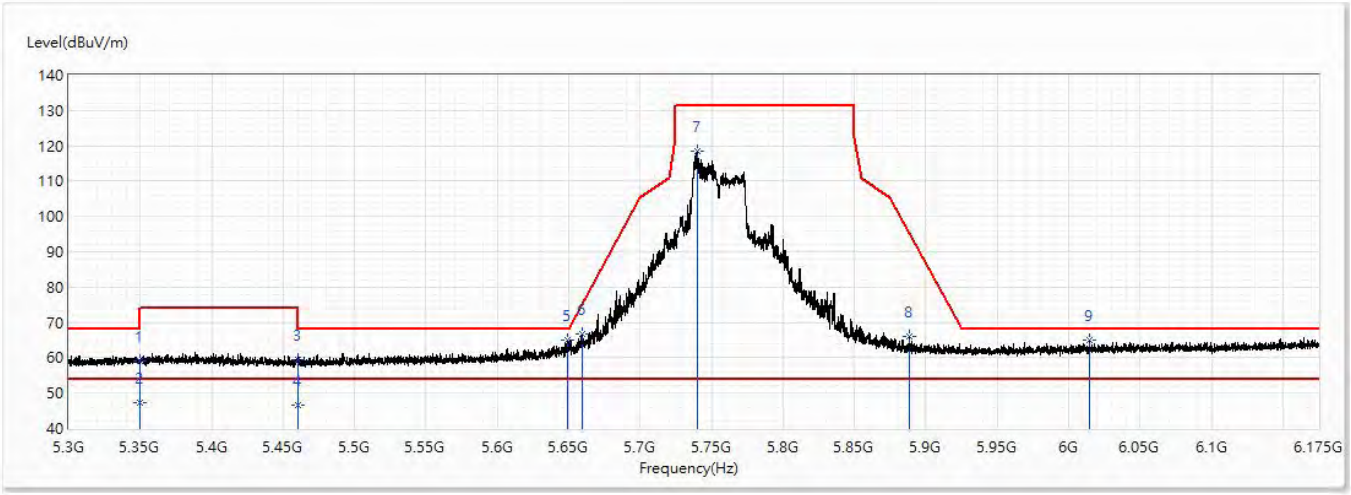
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 3: Transmit_Beamforming Mode		
Note :	802.11n(40M)_5755MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	59.02	74.00	-14.98	31.50	27.52	PK
2	5350.001	47.27	54.00	-6.73	19.75	27.52	AV
3	5459.999	59.53	74.00	-14.47	31.90	27.63	PK
4	5459.999	46.62	54.00	-7.38	18.99	27.63	AV
* 5	5649.125	65.08	68.20	-3.12	36.58	28.50	PK
6	5659.297	66.57	75.10	-8.54	38.01	28.56	PK
7	5740.125	118.43	131.20	-12.77	89.42	29.01	PK
8	5888.875	66.09	94.90	-28.81	36.25	29.84	PK
9	6014.547	65.08	68.20	-3.12	34.53	30.55	PK

Note:

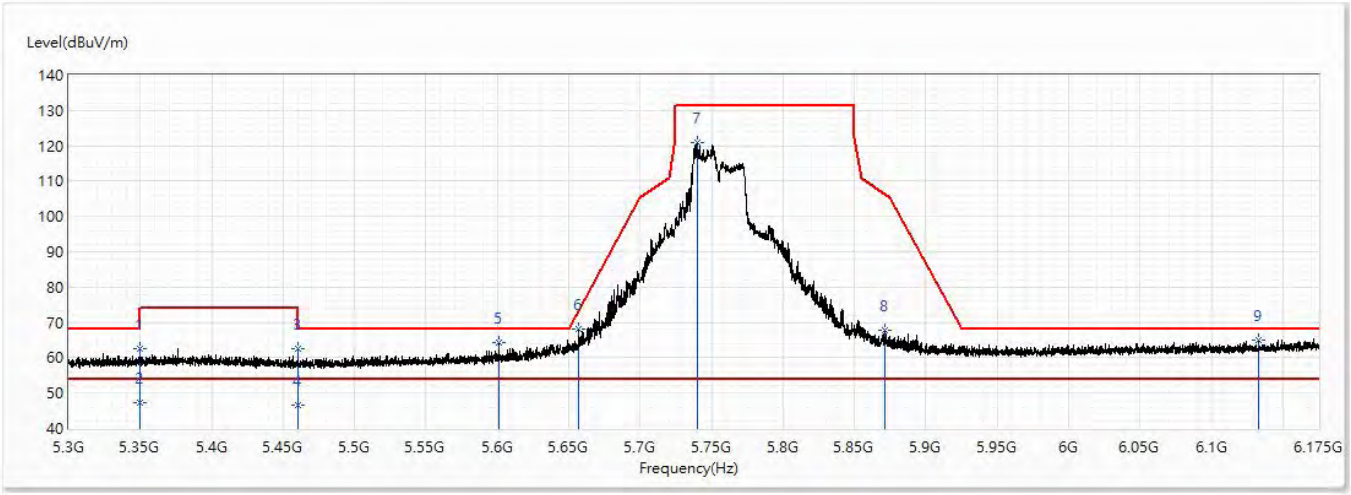
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 3: Transmit_Beamforming Mode		
Note :	802.11n(40M)_5755MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	62.45	74.00	-11.55	34.93	27.52	PK
2	5350.001	47.35	54.00	-6.65	19.83	27.52	AV
3	5459.999	62.45	74.00	-11.55	34.82	27.63	PK
4	5459.999	46.52	54.00	-7.48	18.89	27.63	AV
5	5601.219	64.20	68.20	-4.00	35.96	28.24	PK
6	5656.672	68.09	73.16	-5.07	39.55	28.54	PK
7	5739.906	121.07	131.20	-10.13	92.06	29.01	PK
8	5871.594	67.66	106.15	-38.50	37.91	29.75	PK
* 9	6133.109	65.01	68.20	-3.19	33.80	31.21	PK

Note:

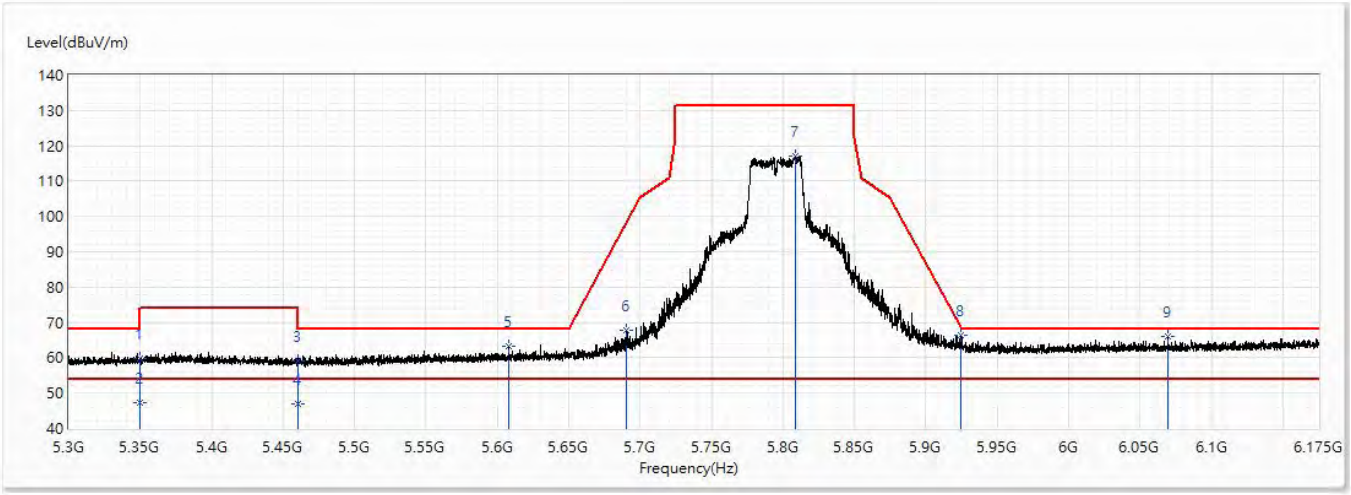
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 3: Transmit_Beamforming Mode		
Note :	802.11n(40M)_5795MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	59.75	74.00	-14.25	32.23	27.52	PK
2	5350.001	47.34	54.00	-6.66	19.82	27.52	AV
3	5459.999	59.08	74.00	-14.92	31.45	27.63	PK
4	5459.999	47.10	54.00	-6.90	19.47	27.63	AV
5	5607.891	63.19	68.20	-5.01	34.93	28.26	PK
6	5689.922	67.77	97.77	-30.00	39.05	28.72	PK
7	5808.922	116.93	131.20	-14.27	87.54	29.39	PK
* 8	5924.859	66.47	68.30	-1.83	36.43	30.04	PK
9	6069.672	66.03	68.20	-2.17	35.19	30.84	PK

Note:

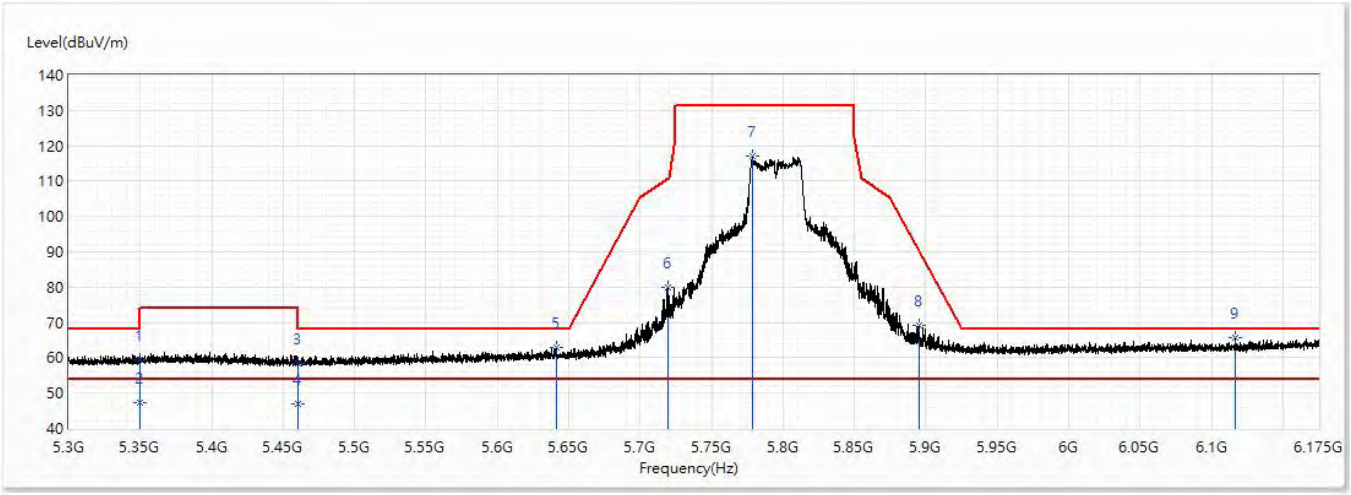
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 3: Transmit_Beamforming Mode		
Note :	802.11n(40M)_5795MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	59.47	74.00	-14.53	31.95	27.52	PK
2	5350.001	47.26	54.00	-6.74	19.74	27.52	AV
3	5459.999	58.42	74.00	-15.58	30.79	27.63	PK
4	5459.999	46.89	54.00	-7.11	19.26	27.63	AV
5	5641.578	62.81	68.20	-5.39	34.35	28.46	PK
6	5719.563	79.79	110.68	-30.89	50.89	28.90	PK
7	5778.406	117.00	131.20	-14.20	87.78	29.22	PK
8	5895	69.21	90.36	-21.15	39.34	29.87	PK
* 9	6117.031	65.74	68.20	-2.46	34.63	31.11	PK

Note:

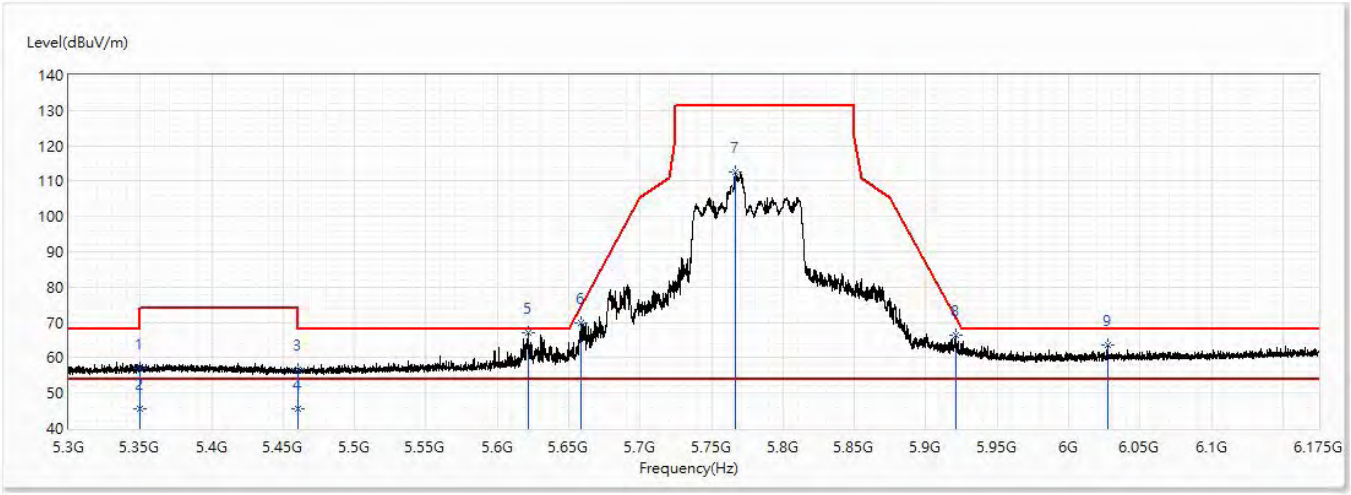
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Horizontal
Test Mode :	Mode 3: Transmit_Beamforming Mode		
Note :	802.11ac(80M)_5775MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	56.96	74.00	-17.04	29.44	27.52	PK
2	5350.001	45.66	54.00	-8.34	18.14	27.52	AV
3	5459.999	56.71	74.00	-17.29	29.08	27.63	PK
4	5459.999	45.55	54.00	-8.45	17.92	27.63	AV
* 5	5621.672	67.10	68.20	-1.10	38.75	28.35	PK
6	5658.422	69.74	74.46	-4.72	41.18	28.56	PK
7	5766.594	112.47	131.20	-18.73	83.31	29.16	PK
8	5920.813	66.48	71.29	-4.81	36.46	30.02	PK
9	6027.125	63.59	68.20	-4.61	32.98	30.61	PK

Note:

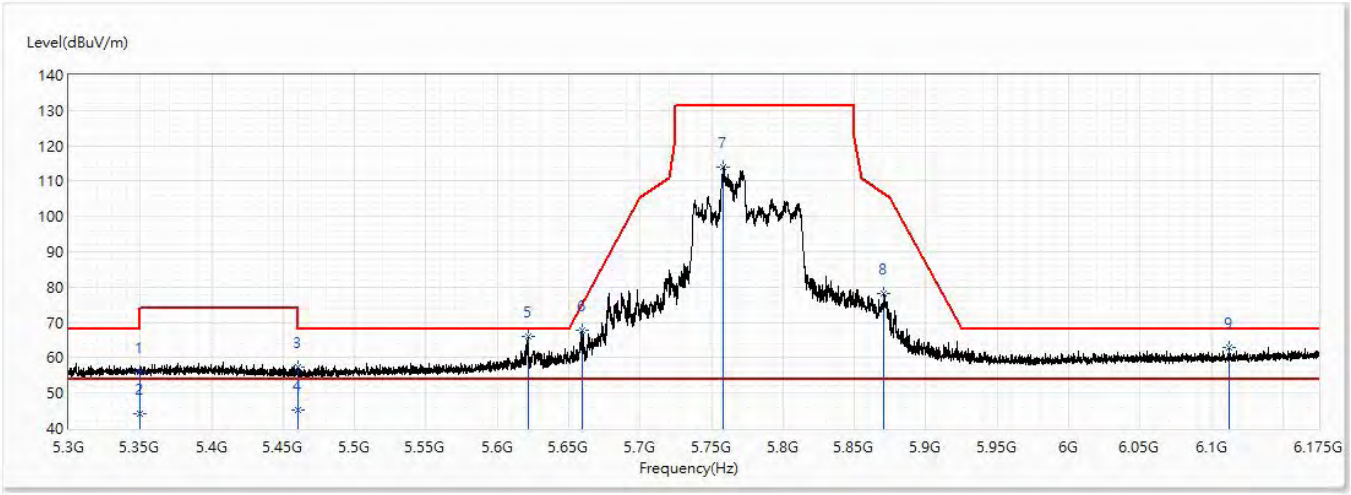
1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Site :	CB2-H	Engineer :	Scott
Model No :	USB-AC68	Test Date :	2019/10/14
Test Voltage :	DC 5V (Power by Notebook PC)	Polarity :	Vertical
Test Mode :	Mode 3: Transmit_Beamforming Mode		
Note :	802.11ac(80M)_5775MHz		
Environmental Condition:	Temperature (℃) : 23.8 ; Relative Humidity (%RH) : 57.0		



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	5350.001	55.99	74.00	-18.01	28.47	27.52	PK
2	5350.001	44.04	54.00	-9.96	16.52	27.52	AV
3	5459.999	57.19	74.00	-16.81	29.56	27.63	PK
4	5459.999	45.12	54.00	-8.88	17.49	27.63	AV
* 5	5622	65.92	68.20	-2.28	37.57	28.35	PK
6	5659.625	67.92	75.35	-7.42	39.36	28.56	PK
7	5758.391	113.99	131.20	-17.21	84.87	29.12	PK
8	5870.5	78.22	106.46	-28.24	48.48	29.74	PK
9	6112.219	63.09	68.20	-5.11	32.00	31.09	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.

2. Emission Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

4. The fundamental for reference only, it's not restricted by unwanted emission limit.