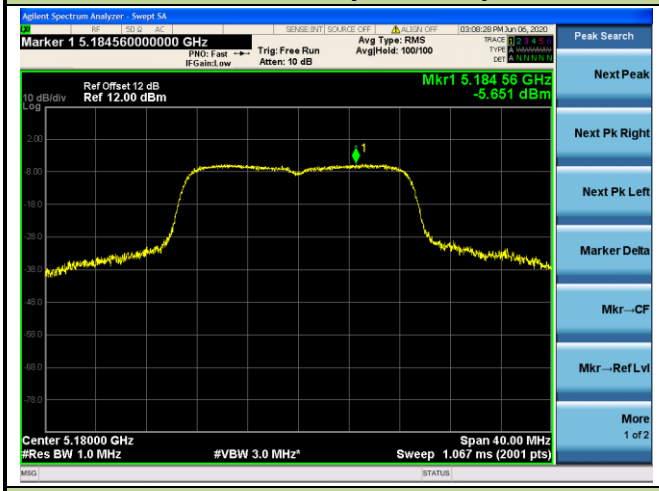
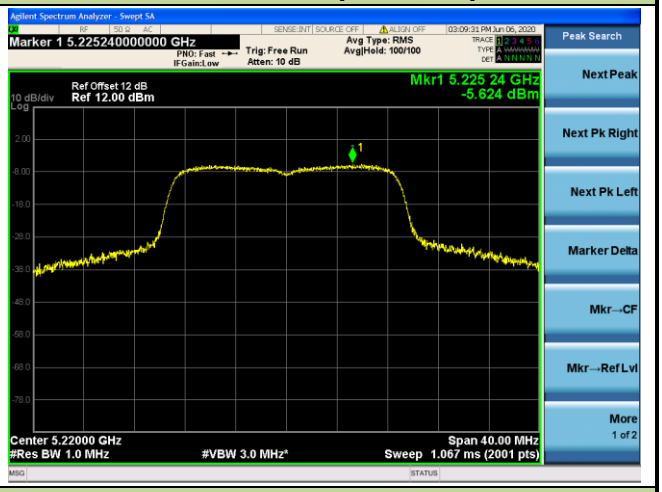
802.11ac-VHT20 Power Spectral Density

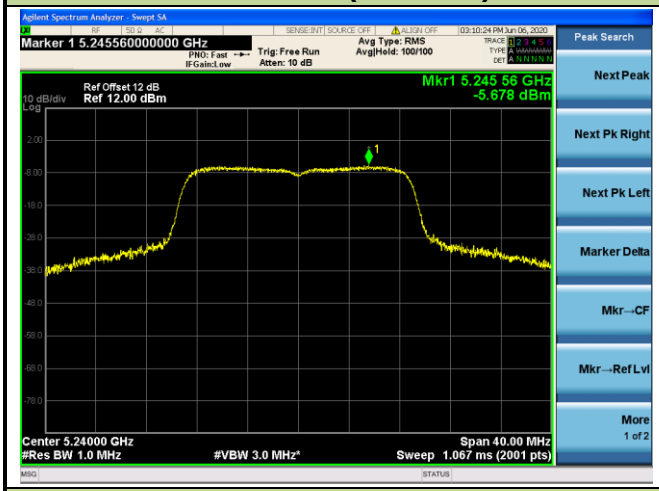
Channel 36 (5180MHz)



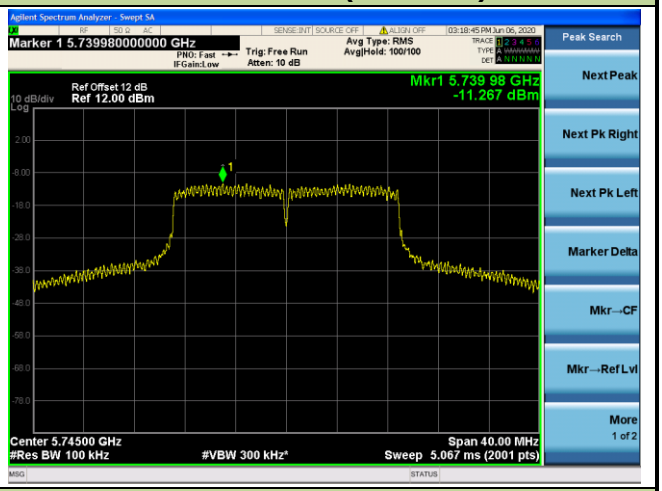
Channel 44 (5220MHz)



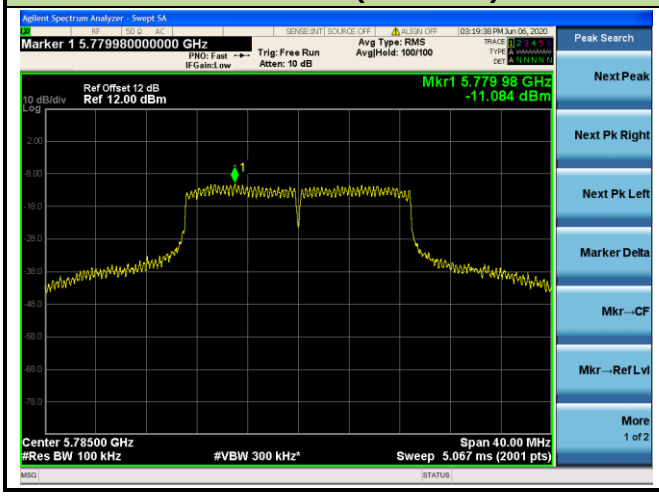
Channel 48 (5240MHz)



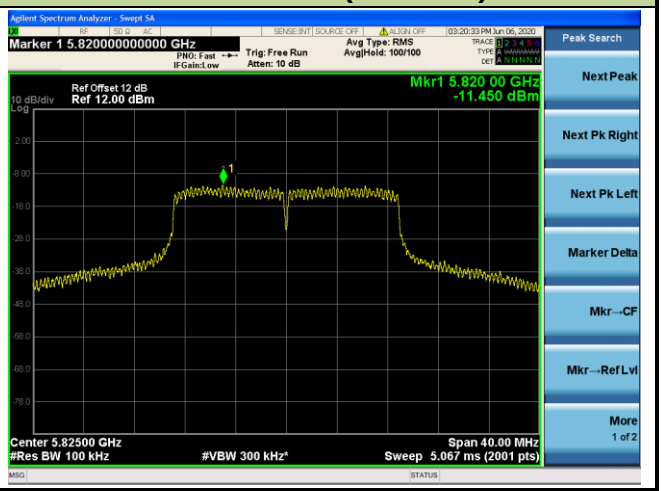
Channel 149 (5745MHz)



Channel 157 (5785MHz)

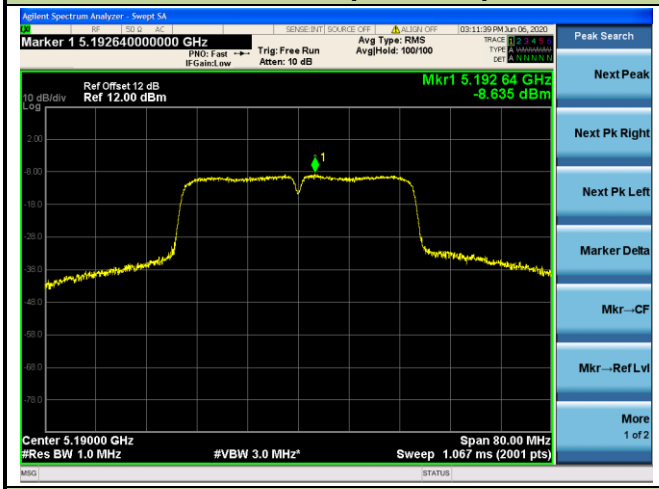


Channel 165 (5825MHz)

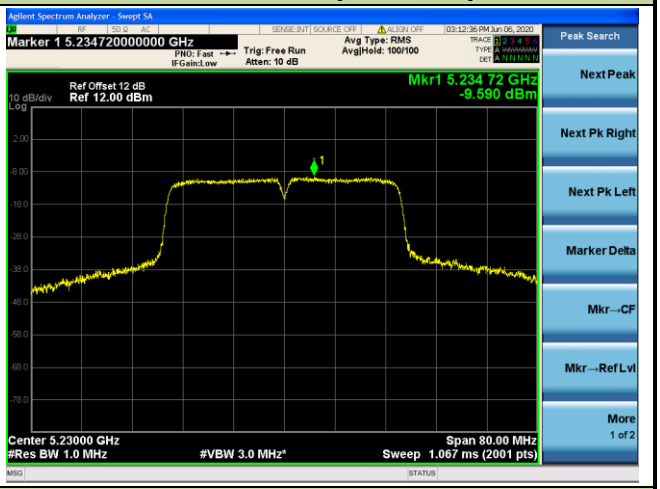


802.11ac-VHT40 Power Spectral Density

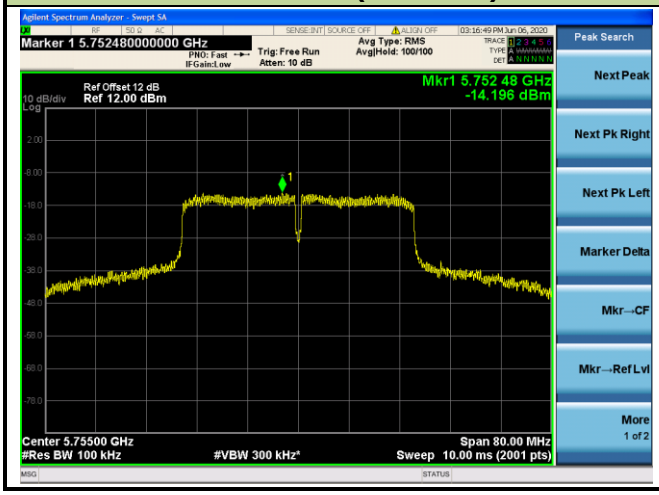
Channel 38 (5190MHz)



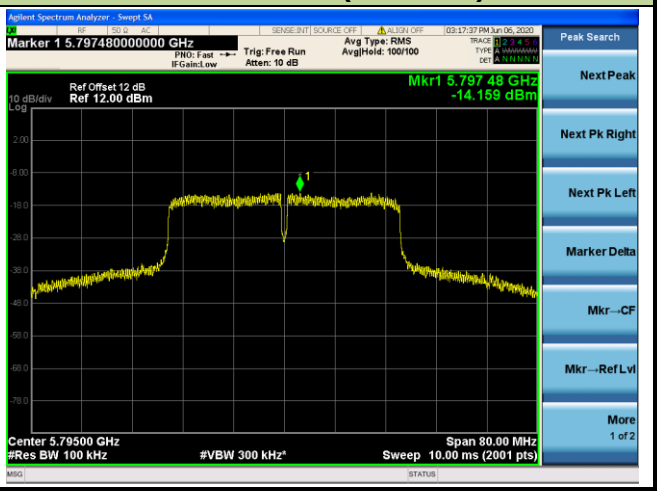
Channel 46 (5230MHz)

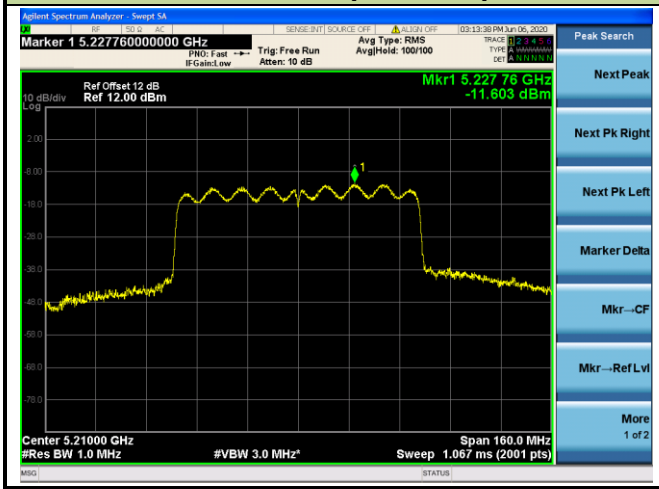
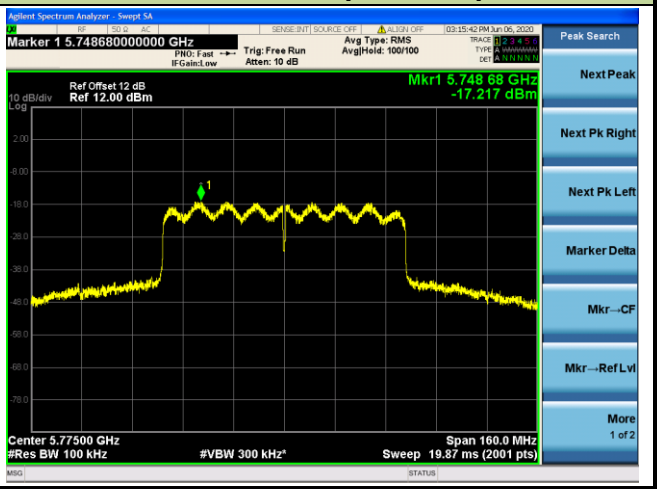


Channel 151 (5755MHz)



Channel 159 (5795MHz)



802.11ac-VHT80 Power Spectral Density	
Channel 42 (5210MHz)	**Channel 155 (5775MHz)**
	

7.7. Frequency Stability Measurement

7.7.1.Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

7.7.2.Test Procedure Used

Frequency Stability Under Temperature Variations:

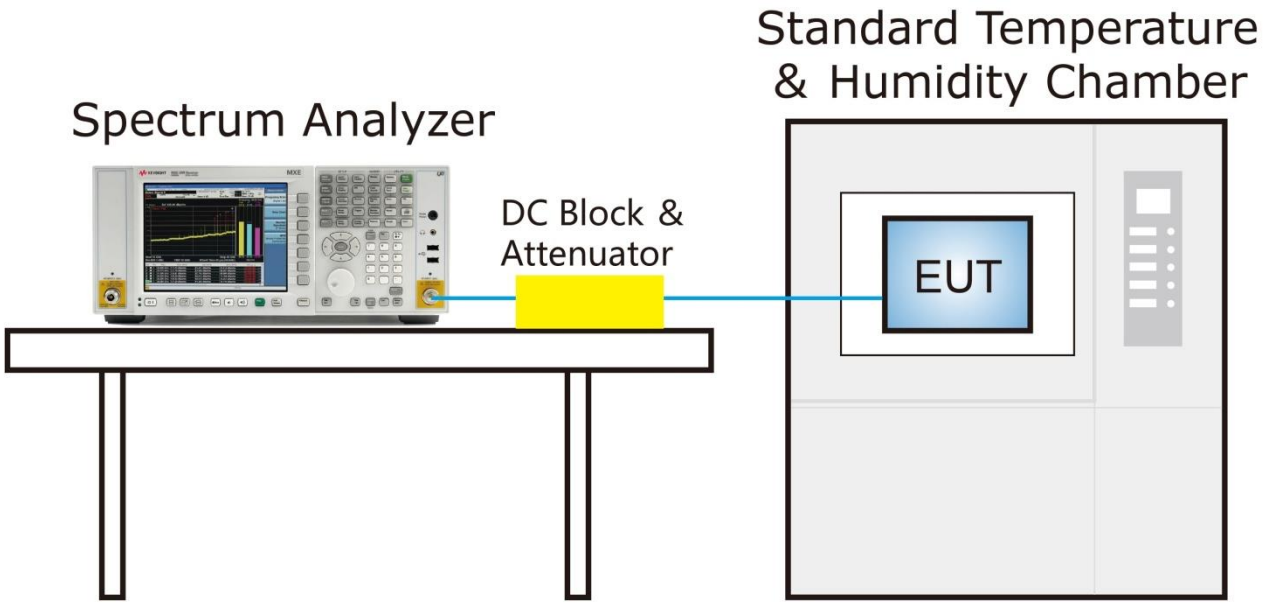
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20℃ operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10℃ decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, record the maximum frequency change.

7.7.3.Test Setup



7.7.4.Test Result

Product	Smart Camera	Temperature	27°C
Test Engineer	Amy Zhang	Relative Humidity	47%
Test Site	TR3	Test Date	2020/06/06
Test Mode	5180MHz (Carrier Mode)		

Voltage (%)	Power (V_{AC})	Temp (℃)	Frequency Tolerance (ppm)			
			0 minutes	2 minutes	5 minutes	10 minutes
100%	120	- 30	-1.93	-1.52	-3.50	-4.45
		- 20	-3.86	-8.33	-0.58	-6.26
		- 10	-1.93	-3.24	-1.95	-1.11
		0	-11.58	-9.77	-8.32	-7.59
		+ 10	-3.86	-0.25	-4.81	-4.44
		+ 20 (Ref)	0.00	-0.78	-6.68	-4.83
		+ 30	7.72	7.92	-1.39	7.19
		+ 40	-9.65	-1.17	-0.20	-8.56
		+ 50	3.86	2.16	9.54	6.71
115%	138	+ 20	7.72	9.93	4.14	1.16
85%	102	+ 20	-5.79	-0.96	-5.35	-6.29

Note: Frequency Tolerance (ppm) = {[Measured Frequency (MHz) - Declared Frequency (MHz)] / Declared Frequency (MHz)} *10^6.

7.8. Radiated Spurious Emission Measurement

7.8.1.Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15.209 Limit		
Frequency (MHz)	Field Strength (μV/m)	Measured Distance (m)
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.8.2.Test Procedure Used

KDB 789033 D02v02r01 - Section G

7.8.3.Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

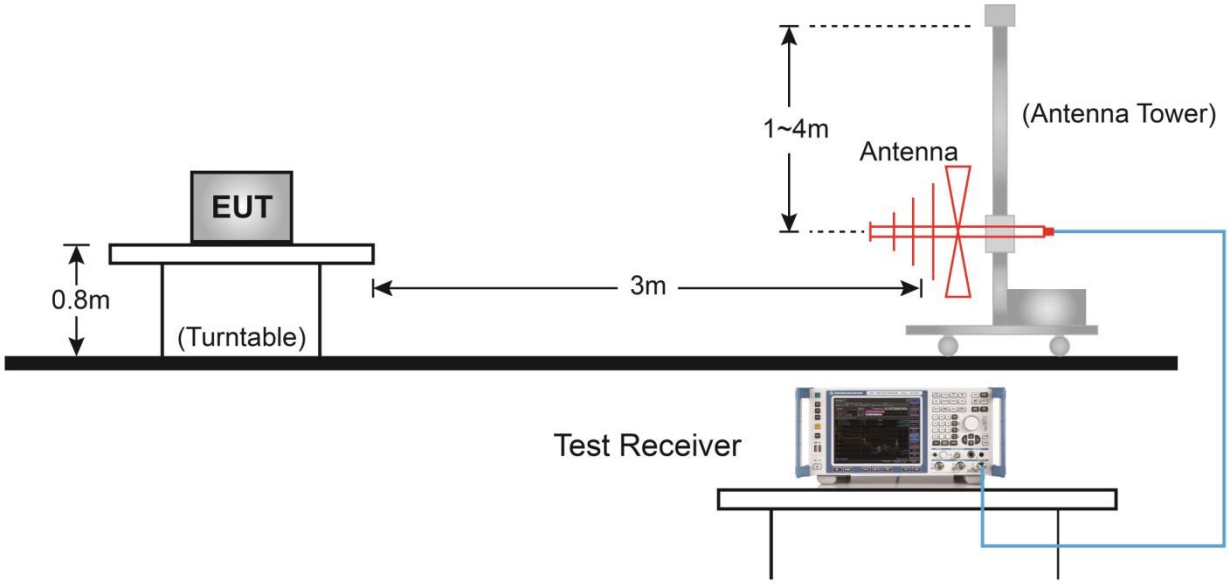
Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10Hz

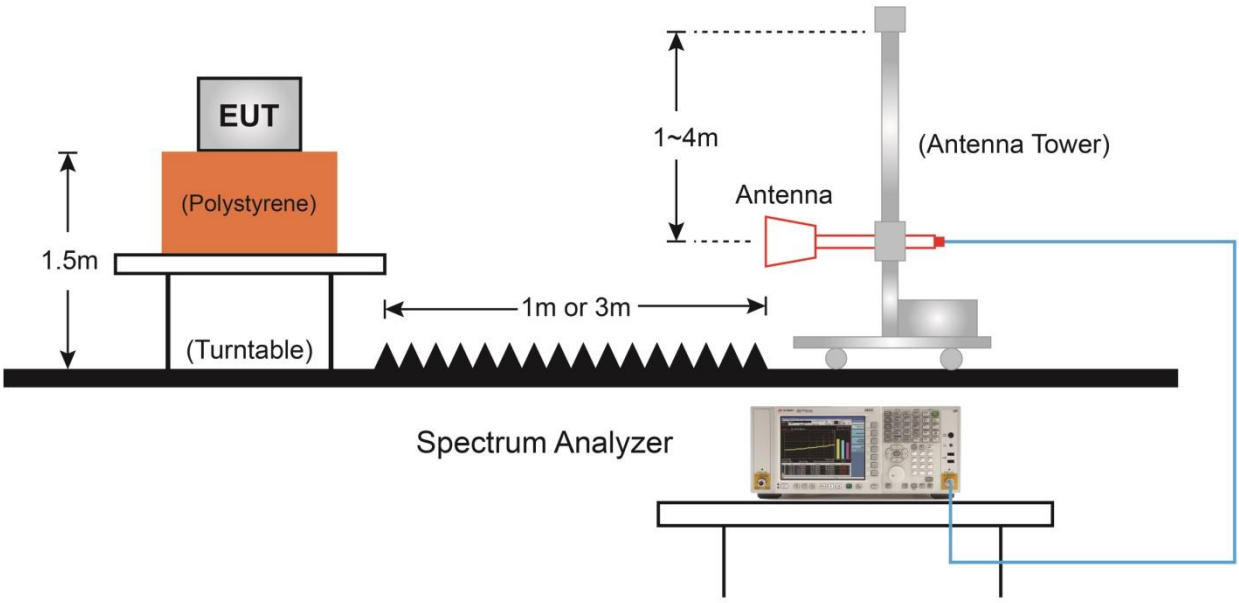
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

7.8.4.Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



7.8.5.Test Result

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11a	Test Channel	36
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7579.0	34.2	8.3	42.5	74.0	-31.5	Peak	Horizontal
	8131.5	33.6	8.8	42.4	74.0	-31.6	Peak	Horizontal
*	10367.0	42.2	12.5	54.7	68.2	-13.5	Peak	Horizontal
*	13894.5	31.6	21.3	52.9	68.2	-15.3	Peak	Horizontal
	7536.5	35.0	8.1	43.1	74.0	-30.9	Peak	Vertical
	8114.5	34.3	9.0	43.3	74.0	-30.7	Peak	Vertical
*	10358.5	41.0	12.6	53.6	68.2	-14.6	Peak	Vertical
*	13869.0	31.4	21.5	52.9	68.2	-15.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11a	Test Channel	44
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7477.0	32.8	8.2	41.0	74.0	-33.0	Peak	Horizontal
	8276.0	32.5	8.3	40.8	74.0	-33.2	Peak	Horizontal
*	10443.5	36.7	12.5	49.2	68.2	-19.0	Peak	Horizontal
*	14200.5	31.7	21.2	52.9	68.2	-15.3	Peak	Horizontal
	7468.5	34.2	8.2	42.4	74.0	-31.6	Peak	Vertical
	8140.0	34.0	8.7	42.7	74.0	-31.3	Peak	Vertical
*	10452.0	37.1	12.5	49.6	68.2	-18.6	Peak	Vertical
*	13920.0	31.0	21.7	52.7	68.2	-15.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11a	Test Channel	48
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7596.0	34.4	8.2	42.7	74.0	-31.3	Peak	Horizontal
	8242.0	33.3	8.5	41.8	74.0	-32.2	Peak	Horizontal
*	10469.0	36.0	12.7	48.7	68.2	-19.5	Peak	Horizontal
*	13869.0	31.4	21.5	52.8	68.2	-15.4	Peak	Horizontal
	7596.0	34.4	8.2	42.7	74.0	-31.3	Peak	Vertical
	9007.0	35.2	10.3	45.5	74.0	-28.5	Peak	Vertical
*	10469.0	36.0	12.7	48.7	68.2	-19.5	Peak	Vertical
*	13869.0	31.4	21.5	52.8	68.2	-15.4	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11a	Test Channel	149
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7596.0	34.3	8.2	42.6	74.0	-31.4	Peak	Horizontal
	11489.0	32.6	15.7	48.3	74.0	-25.7	Peak	Horizontal
*	13894.5	30.9	21.3	52.2	68.2	-16.0	Peak	Horizontal
*	14642.5	31.6	20.1	51.7	68.2	-16.5	Peak	Horizontal
	7477.0	34.3	8.2	42.5	74.0	-31.5	Peak	Vertical
	11489.0	35.7	15.7	51.4	74.0	-22.6	Peak	Vertical
*	13937.0	30.9	21.2	52.1	68.2	-16.1	Peak	Vertical
*	14642.5	31.3	20.1	51.4	68.2	-16.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11a	Test Channel	157
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7443.0	33.5	8.3	41.8	74.0	-32.2	Peak	Horizontal
	11565.5	35.4	15.8	51.2	74.0	-22.8	Peak	Horizontal
*	14243.0	31.1	21.7	52.9	68.2	-15.3	Peak	Horizontal
*	16954.5	33.3	20.7	54.1	68.2	-14.1	Peak	Horizontal
	9364.0	34.7	11.0	45.7	74.0	-28.3	Peak	Vertical
	11565.5	36.2	15.8	52.1	74.0	-21.9	Peak	Vertical
*	13903.0	30.9	21.4	52.3	68.2	-15.9	Peak	Vertical
*	14379.0	31.5	21.1	52.6	68.2	-15.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11a	Test Channel	165
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	9117.5	33.7	10.7	44.3	74.0	-29.7	Peak	Horizontal
	11642.0	33.7	16.5	50.1	74.0	-23.9	Peak	Horizontal
*	14277.0	31.2	21.8	53.0	68.2	-15.2	Peak	Horizontal
*	16937.5	33.9	20.4	54.3	68.2	-13.9	Peak	Horizontal
	8199.5	35.1	8.4	43.5	74.0	-30.5	Peak	Vertical
	11650.5	38.5	15.9	54.4	74.0	-19.6	Peak	Vertical
	11650.9	25.4	15.8	41.2	54.0	-12.8	Average	Vertical
*	13911.5	31.6	21.6	53.2	68.2	-15.0	Peak	Vertical
*	14736.0	32.3	20.0	52.3	68.2	-15.9	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11ac-VHT20	Test Channel	36
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7485.5	33.6	8.3	41.9	74.0	-32.1	Peak	Horizontal
	8488.5	34.5	8.7	43.2	74.0	-30.8	Peak	Horizontal
*	10358.5	36.2	12.6	48.8	68.2	-19.4	Peak	Horizontal
*	13826.5	31.4	20.6	52.0	68.2	-16.2	Peak	Horizontal
	7451.5	33.5	8.3	41.8	74.0	-32.2	Peak	Vertical
	8276.0	33.7	8.3	42.1	74.0	-31.9	Peak	Vertical
*	10358.5	36.6	12.6	49.2	68.2	-19.0	Peak	Vertical
*	13920.0	30.3	21.7	52.0	68.2	-16.2	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11ac-VHT20	Test Channel	44
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7553.5	34.0	8.2	42.1	74.0	-31.9	Peak	Horizontal
	8259.0	34.7	8.2	43.0	74.0	-31.0	Peak	Horizontal
*	10426.5	34.4	12.6	47.0	68.2	-21.2	Peak	Horizontal
*	13869.0	31.4	21.5	52.9	68.2	-15.3	Peak	Horizontal
	7400.5	33.4	8.2	41.6	74.0	-32.4	Peak	Vertical
	8046.5	34.2	8.8	43.0	74.0	-31.0	Peak	Vertical
*	10435.0	35.4	12.5	47.9	68.2	-20.3	Peak	Vertical
*	13928.5	31.2	21.4	52.6	68.2	-15.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11ac-VHT20	Test Channel	48
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7468.5	34.6	8.2	42.7	74.0	-31.3	Peak	Horizontal
	8182.5	33.9	8.6	42.5	74.0	-31.5	Peak	Horizontal
*	10477.5	33.7	12.6	46.2	68.2	-22.0	Peak	Horizontal
*	14345.0	32.1	21.4	53.5	68.2	-14.7	Peak	Horizontal
	7468.5	34.6	8.2	42.7	74.0	-31.3	Peak	Vertical
	8250.5	34.0	8.4	42.3	74.0	-31.7	Peak	Vertical
*	10477.5	35.5	12.6	48.1	68.2	-20.1	Peak	Vertical
*	14345.0	32.1	21.4	53.5	68.2	-14.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11ac-VHT20	Test Channel	149
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7638.5	34.4	8.1	42.5	74.0	-31.5	Peak	Horizontal
	11472.0	32.4	15.8	48.1	74.0	-25.9	Peak	Horizontal
*	13920.0	30.6	21.7	52.4	68.2	-15.8	Peak	Horizontal
*	17039.5	33.3	20.8	54.0	68.2	-14.2	Peak	Horizontal
	11489.0	34.6	15.7	50.3	74.0	-23.7	Peak	Vertical
	12152.0	33.3	16.2	49.5	74.0	-24.5	Peak	Vertical
*	13835.0	31.3	21.1	52.4	68.2	-15.8	Peak	Vertical
*	14234.5	30.5	21.7	52.3	68.2	-15.9	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11ac-VHT20	Test Channel	157
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	8131.5	34.3	8.8	43.1	74.0	-30.9	Peak	Horizontal
	11565.5	34.4	15.8	50.2	74.0	-23.8	Peak	Horizontal
*	13877.5	31.4	21.3	52.7	68.2	-15.5	Peak	Horizontal
*	16946.0	33.7	20.8	54.5	68.2	-13.7	Peak	Horizontal
	8148.5	34.8	8.5	43.3	74.0	-30.7	Peak	Vertical
	11569.7	24.6	16.0	40.6	54.0	-13.4	Average	Vertical
	11574.0	37.2	16.1	53.3	74.0	-20.7	Peak	Vertical
*	14217.5	31.7	21.7	53.4	68.2	-14.8	Peak	Vertical
*	17039.5	33.1	20.8	53.9	68.2	-14.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11ac-VHT20	Test Channel	165
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	9049.5	33.9	10.1	44.0	74.0	-30.0	Peak	Horizontal
	11642.0	34.8	16.5	51.3	74.0	-22.7	Peak	Horizontal
*	13988.0	32.4	20.5	52.9	68.2	-15.3	Peak	Horizontal
*	16963.0	33.3	20.5	53.8	68.2	-14.4	Peak	Horizontal
	7647.0	35.4	8.1	43.5	74.0	-30.5	Peak	Vertical
	11650.5	35.9	15.9	51.8	74.0	-22.2	Peak	Vertical
*	13860.5	31.8	21.4	53.2	68.2	-15.0	Peak	Vertical
*	16937.5	33.6	20.4	54.0	68.2	-14.2	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11ac-VHT40	Test Channel	38
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7460.0	34.1	8.3	42.4	74.0	-31.6	Peak	Horizontal
	8097.5	34.7	9.0	43.7	74.0	-30.3	Peak	Horizontal
*	10375.5	35.6	12.5	48.1	68.2	-20.1	Peak	Horizontal
*	14285.5	31.0	21.8	52.7	68.2	-15.5	Peak	Horizontal
	7553.5	34.2	8.2	42.3	74.0	-31.7	Peak	Vertical
	8250.5	32.8	8.4	41.1	74.0	-32.9	Peak	Vertical
*	10392.5	37.0	12.5	49.4	68.2	-18.8	Peak	Vertical
*	14226.0	31.0	21.7	52.7	68.2	-15.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11ac-VHT40	Test Channel	46
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7545.0	33.8	8.2	42.1	74.0	-31.9	Peak	Horizontal
	11438.0	31.8	15.8	47.6	74.0	-26.4	Peak	Horizontal
*	13835.0	31.5	21.1	52.6	68.2	-15.6	Peak	Horizontal
*	16946.0	33.2	20.8	54.0	68.2	-14.2	Peak	Horizontal
	7545.0	33.8	8.2	42.1	74.0	-31.9	Peak	Vertical
	8242.0	33.6	8.5	42.1	74.0	-31.9	Peak	Vertical
*	10460.5	34.9	12.6	47.5	68.2	-20.7	Peak	Vertical
*	14302.5	31.6	21.6	53.2	68.2	-15.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11ac-VHT40	Test Channel	151
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7672.5	34.8	8.2	43.0	74.0	-31.0	Peak	Horizontal
	11582.5	31.6	16.4	48.0	74.0	-26.0	Peak	Horizontal
*	14234.5	31.5	21.7	53.2	68.2	-15.0	Peak	Horizontal
*	17320.0	34.6	21.0	55.6	68.2	-12.6	Peak	Horizontal
	7545.0	34.6	8.2	42.8	74.0	-31.2	Peak	Vertical
	11497.5	33.5	15.6	49.0	74.0	-25.0	Peak	Vertical
*	13903.0	32.0	21.4	53.3	68.2	-14.9	Peak	Vertical
*	16946.0	34.2	20.8	54.9	68.2	-13.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11ac-VHT40	Test Channel	159
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7502.5	34.3	8.0	42.3	74.0	-31.7	Peak	Horizontal
	11591.0	32.5	16.4	48.9	74.0	-25.1	Peak	Horizontal
*	13860.5	30.7	21.4	52.0	68.2	-16.2	Peak	Horizontal
*	17039.5	33.7	20.8	54.4	68.2	-13.8	Peak	Horizontal
	9372.5	34.2	11.0	45.3	74.0	-28.7	Peak	Vertical
	11608.0	34.5	15.9	50.4	74.0	-23.6	Peak	Vertical
*	13903.0	31.8	21.4	53.1	68.2	-15.1	Peak	Vertical
*	17515.5	32.6	23.2	55.8	68.2	-12.4	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11ac-VHT80	Test Channel	42
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7451.5	33.7	8.3	42.0	74.0	-32.0	Peak	Horizontal
	8242.0	34.7	8.5	43.2	74.0	-30.8	Peak	Horizontal
*	10418.0	35.1	12.7	47.8	68.2	-20.4	Peak	Horizontal
*	13920.0	31.4	21.7	53.1	68.2	-15.1	Peak	Horizontal
	9075.0	33.7	10.2	44.0	74.0	-30.0	Peak	Vertical
	11548.5	31.3	16.0	47.4	74.0	-26.7	Peak	Vertical
*	13869.0	31.5	21.5	52.9	68.2	-15.3	Peak	Vertical
*	16963.0	33.2	20.5	53.6	68.2	-14.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	Smart Camera	Test Engineer	Hyde Yu
Test Site	AC2	Test Date	2020/06/05
Test Mode	802.11ac-VHT80	Test Channel	155
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7596.0	33.7	8.2	41.9	74.0	-32.1	Peak	Horizontal
	11565.5	32.3	15.8	48.2	74.0	-25.8	Peak	Horizontal
*	13843.5	31.6	21.0	52.6	68.2	-15.6	Peak	Horizontal
*	16861.0	34.1	19.5	53.6	68.2	-14.6	Peak	Horizontal
	8131.5	33.9	8.8	42.7	74.0	-31.3	Peak	Vertical
	11608.0	33.7	15.9	49.6	74.0	-24.4	Peak	Vertical
*	14260.0	30.4	21.7	52.1	68.2	-16.1	Peak	Vertical
*	16759.0	35.0	18.6	53.7	68.2	-14.5	Peak	Vertical

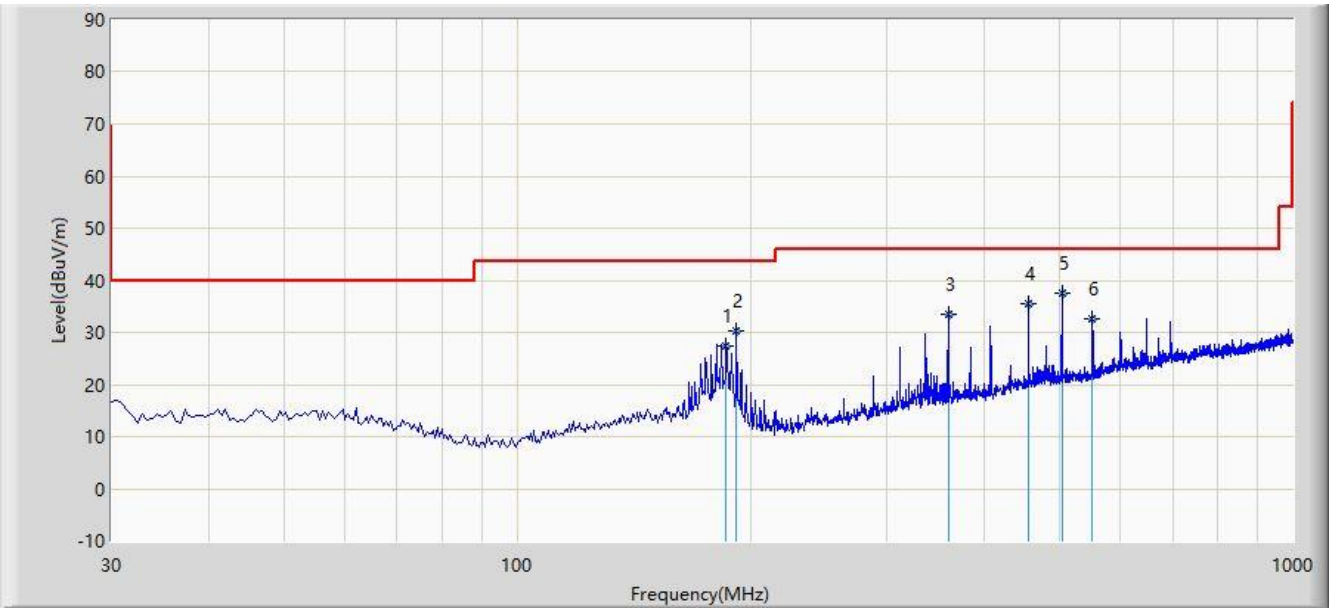
Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Worst Case of Radiated Emission below 1GHz:

Site: AC1	Time: 2020/07/02 - 00:05
Limit: FCC_Part15.209_RSE(3m)	Engineer: Buter Shi
Probe: AC1_VULB 9168 _30-1000MHz	Polarity: Horizontal
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	



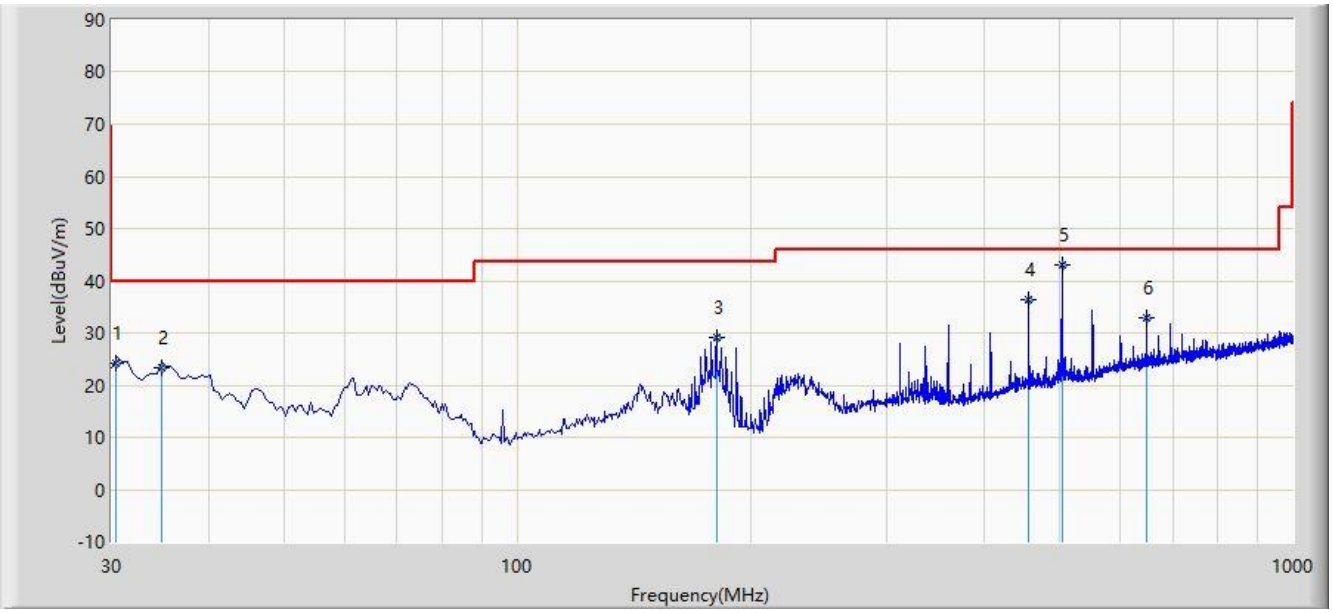
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			186.150	27.390	15.290	-16.110	43.500	12.100	QP
2			191.970	30.426	18.890	-13.074	43.500	11.536	QP
3			360.050	33.443	17.340	-12.557	46.000	16.104	QP
4			455.780	35.625	16.650	-10.375	46.000	18.975	QP
5		*	503.670	37.423	17.690	-8.577	46.000	19.733	QP
6			551.340	32.564	12.120	-13.436	46.000	20.444	QP

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: AC1	Time: 2020/07/02 - 00:08
Limit: FCC_Part15.209_RSE(3m)	Engineer: Buter Shi
Probe: AC1_VULB 9168 _30-1000MHz	Polarity: Vertical
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			30.420	24.249	11.370	-15.751	40.000	12.879	QP
2			34.830	23.387	10.190	-16.613	40.000	13.197	QP
3			180.810	29.172	16.290	-14.328	43.500	12.882	QP
4			455.820	36.446	17.470	-9.554	46.000	18.976	QP
5		*	503.985	42.944	23.200	-3.056	46.000	19.744	QP
6			647.870	33.015	10.450	-12.985	46.000	22.565	QP

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

7.9. Radiated Restricted Band Edge Measurement

7.9.1.Test Limit

For 15.205 Requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1] 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 – 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41	--	--	--

For 15.407(b) Requirement:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range

from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Field Strength (μV/m)	Measured Distance (m)
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.9.2.Test Procedure Used

KDB 789033 D02v02r01 - Section G

7.9.3.Test Setting

Peak Measurements above 1GHz

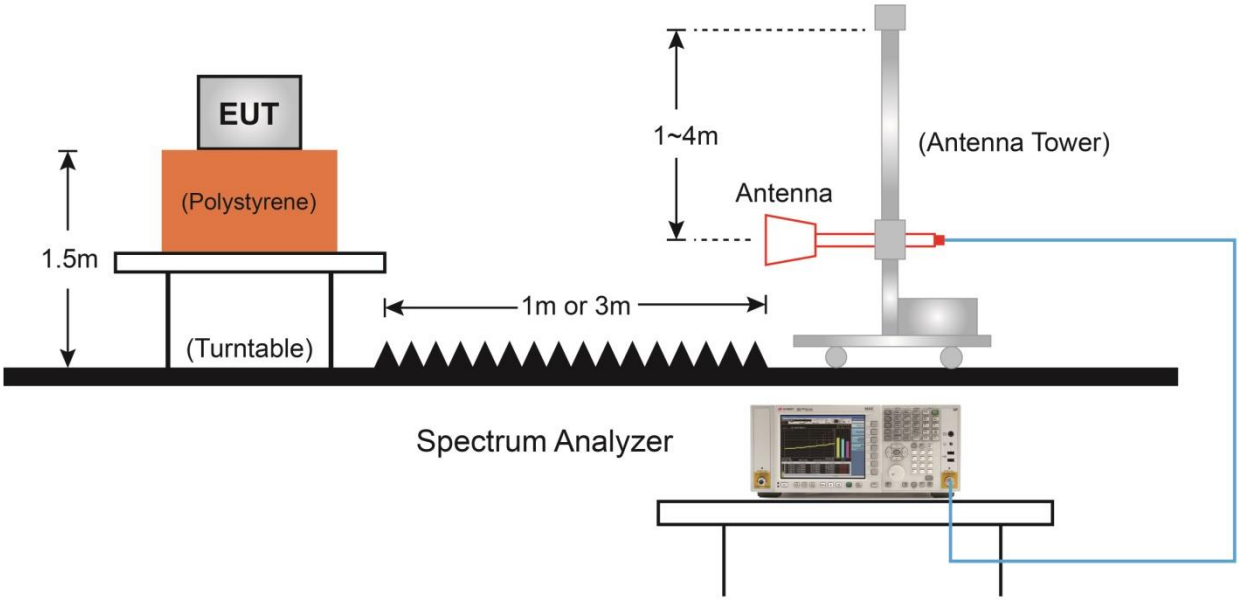
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10Hz

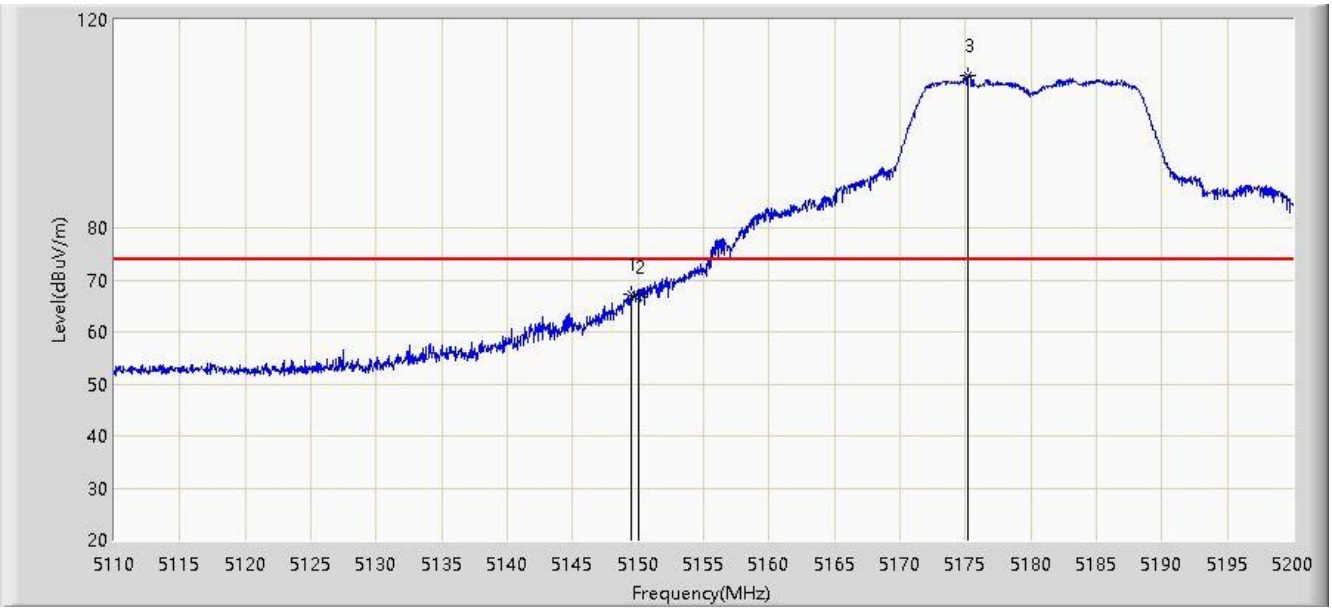
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration
4. Detector = Peak
5. Sweep time = Auto
6. Trace mode = Max hold
7. Trace was allowed to stabilize

7.9.4.Test Setup



7.9.5.Test Result

Site: AC2	Time: 2020/06/04 - 21:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	

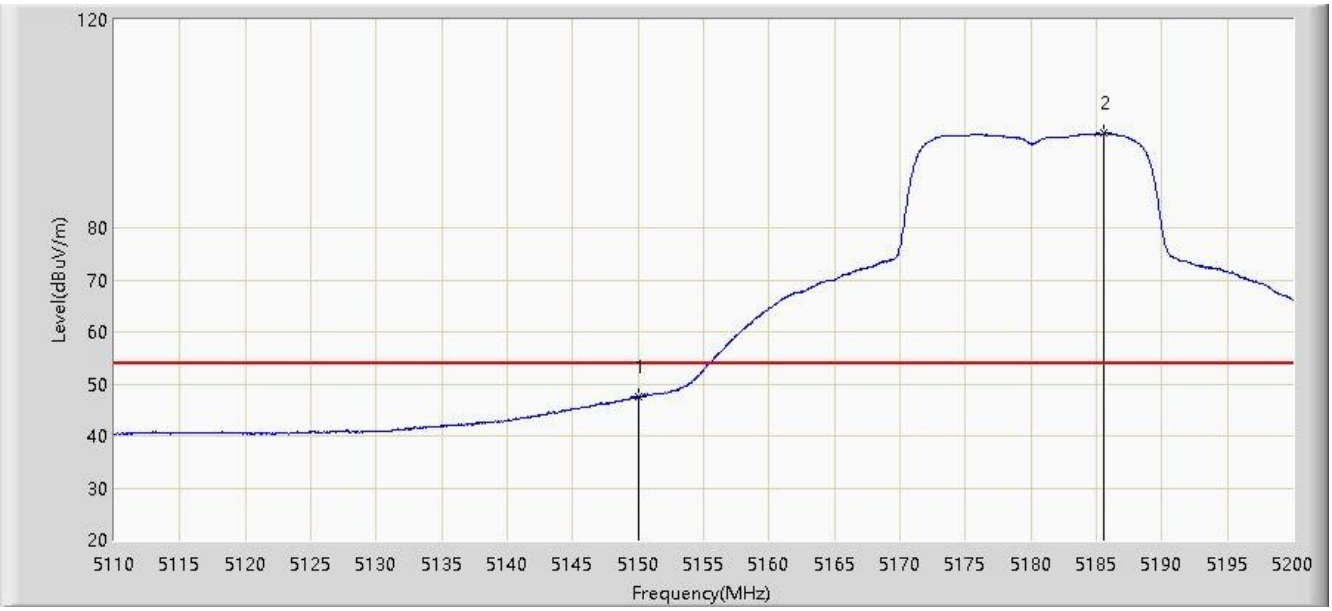


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.465	67.318	66.921	-6.682	74.000	0.397	PK
2			5150.000	66.621	66.219	-7.379	74.000	0.402	PK
3		*	5175.205	109.361	108.954	N/A	N/A	0.406	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 21:59
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	

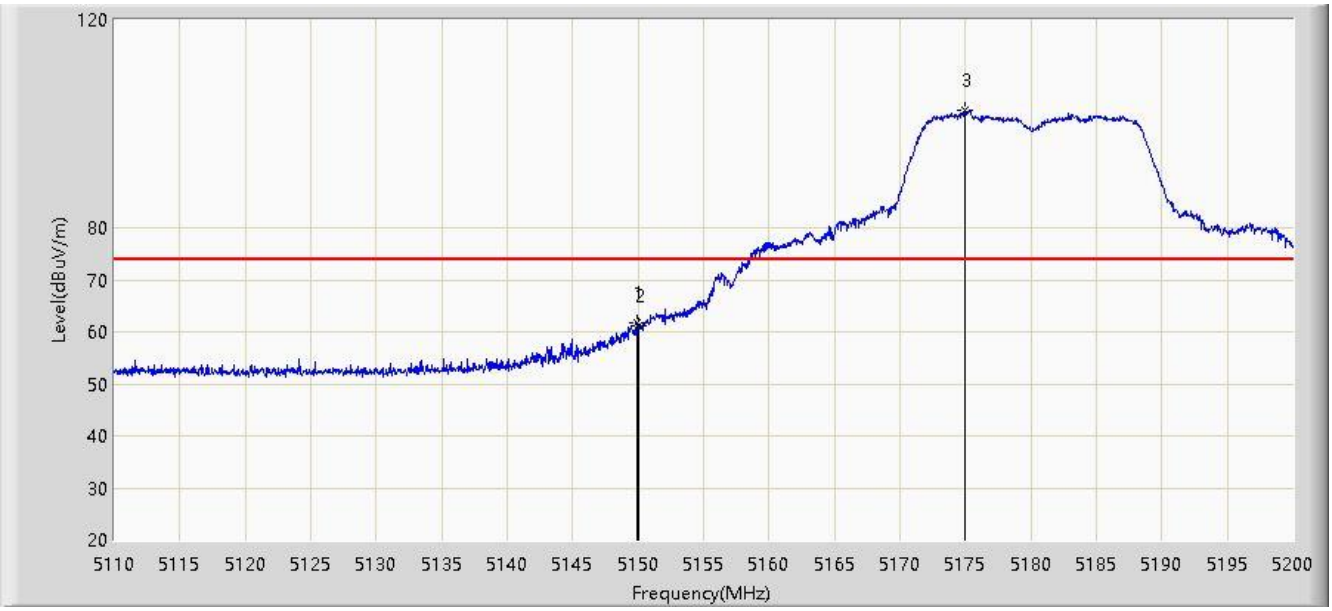


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	47.586	47.184	-6.414	54.000	0.402	AV
2		*	5185.600	98.116	97.805	N/A	N/A	0.312	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 22:02
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	

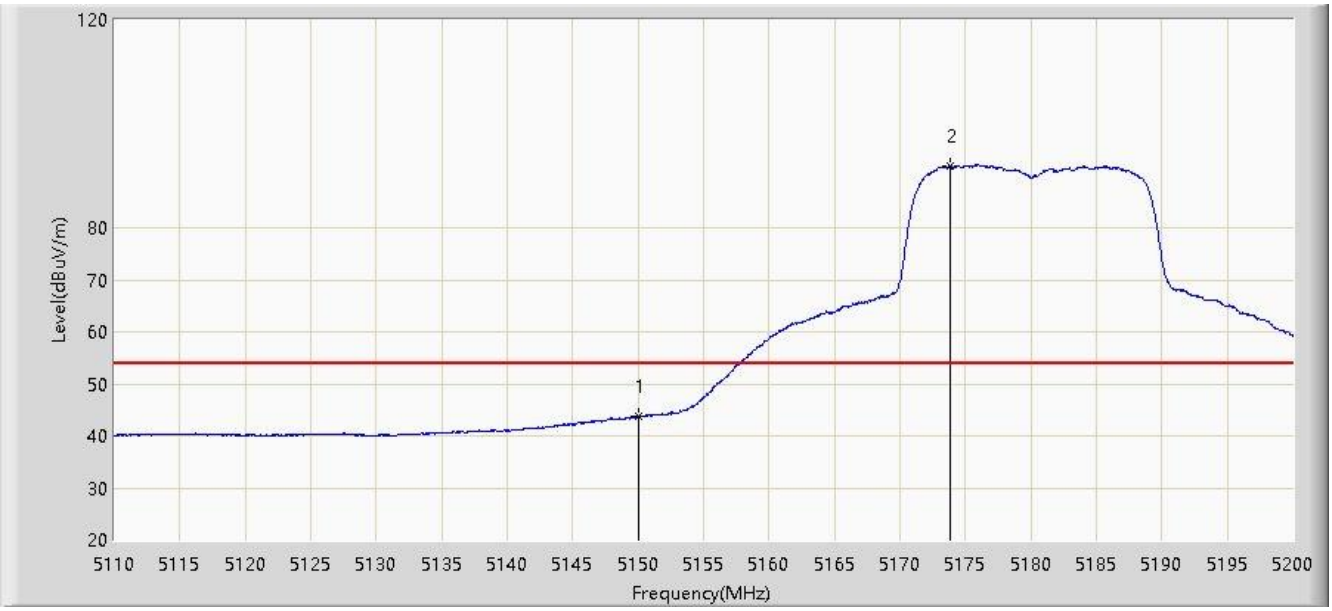


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.870	61.777	61.376	-12.223	74.000	0.400	PK
2			5150.000	61.222	60.820	-12.778	74.000	0.402	PK
3		*	5174.935	102.518	102.108	N/A	N/A	0.410	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 22:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	

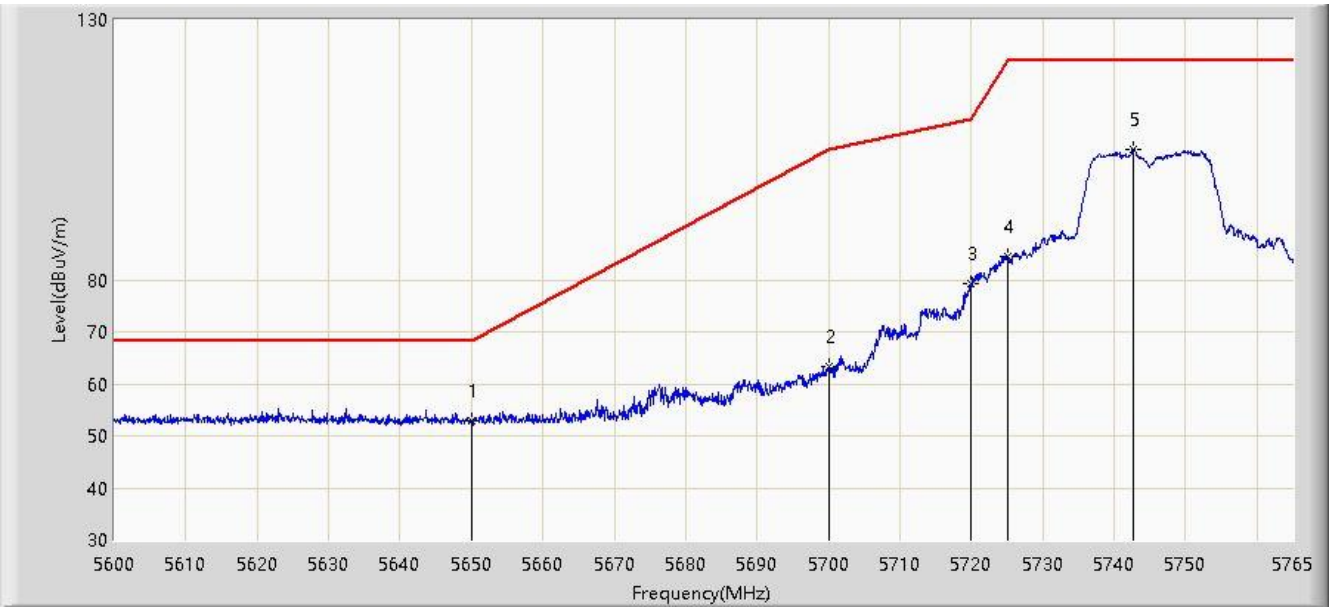


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	43.694	43.292	-10.306	54.000	0.402	AV
2		*	5173.855	91.897	91.475	N/A	N/A	0.422	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 22:14
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5745MHz	

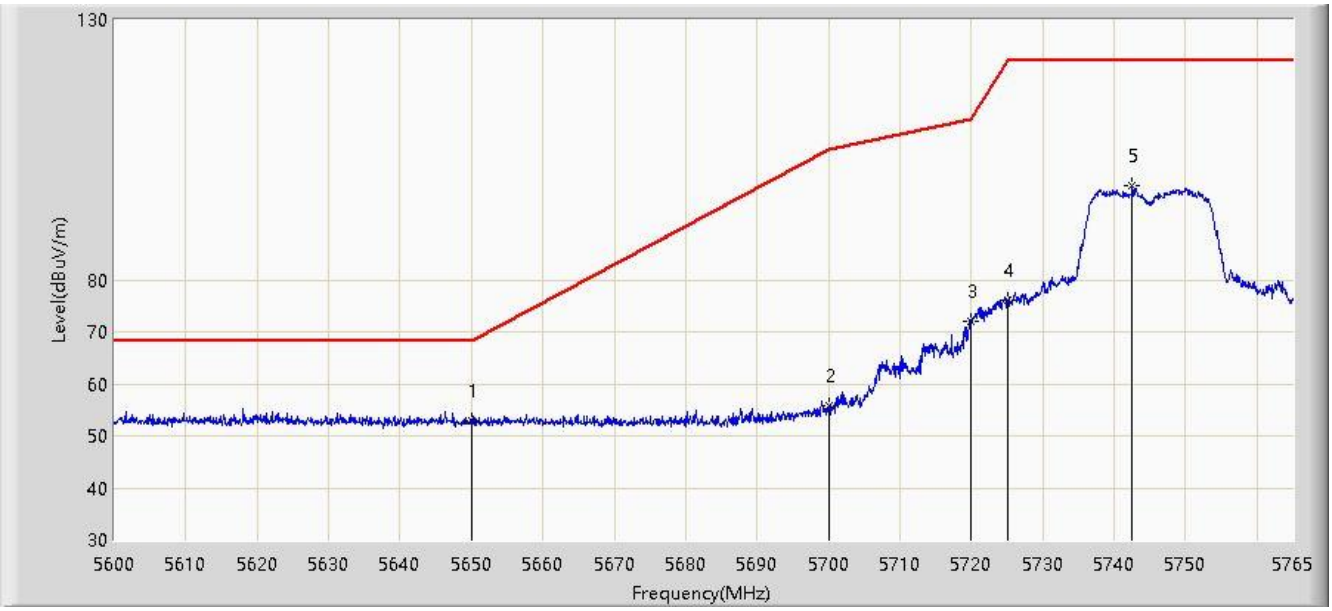


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5650.000	53.040	51.667	-15.160	68.200	1.373	PK
2			5700.000	63.275	62.011	-41.925	105.200	1.264	PK
3			5720.000	79.320	77.858	-31.480	110.800	1.462	PK
4			5725.000	84.412	82.979	-37.788	122.200	1.433	PK
5			5742.643	105.075	103.701	N/A	N/A	1.374	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 22:21
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5745MHz	

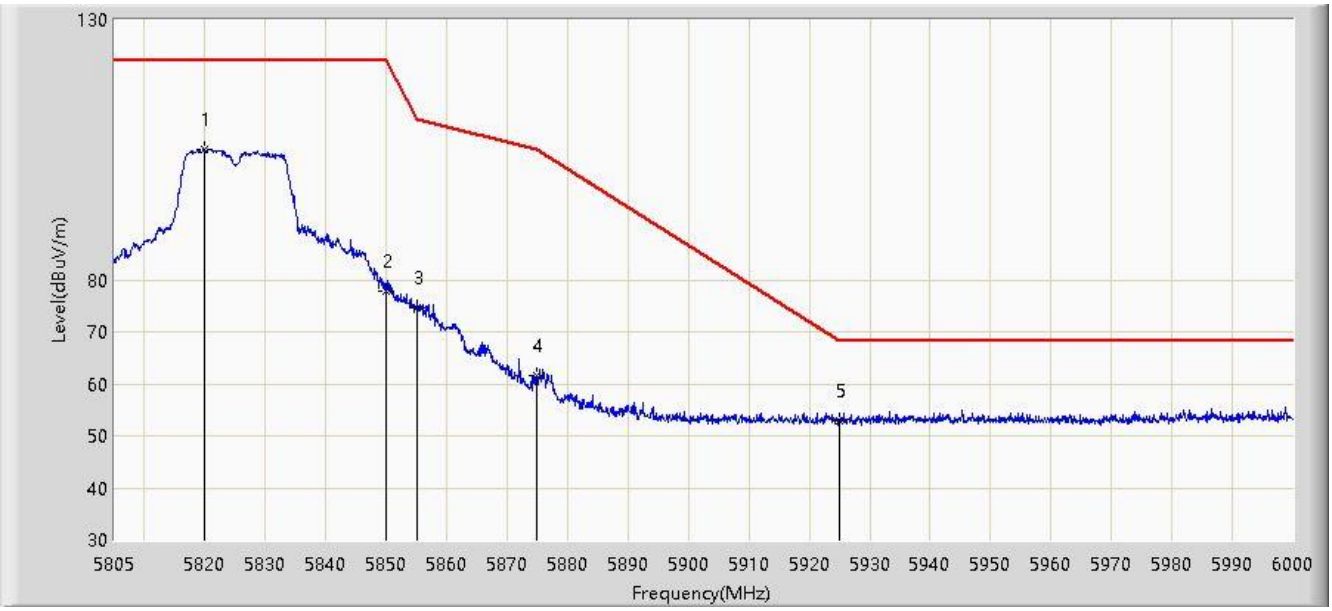


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5650.000	53.020	51.647	-15.180	68.200	1.373	PK
2			5700.000	55.653	54.389	-49.547	105.200	1.264	PK
3			5720.000	71.975	70.513	-38.825	110.800	1.462	PK
4			5725.000	76.158	74.725	-46.042	122.200	1.433	PK
5			5742.560	97.981	96.608	N/A	N/A	1.373	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 22:24
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5825MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5820.015	105.027	103.406	N/A	N/A	1.620	PK
2			5850.000	77.824	76.031	-44.376	122.200	1.792	PK
3			5855.000	74.500	72.698	-36.300	110.800	1.802	PK
4			5875.000	61.487	59.616	-43.713	105.200	1.872	PK
5		*	5925.000	52.925	50.856	-15.275	68.200	2.069	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

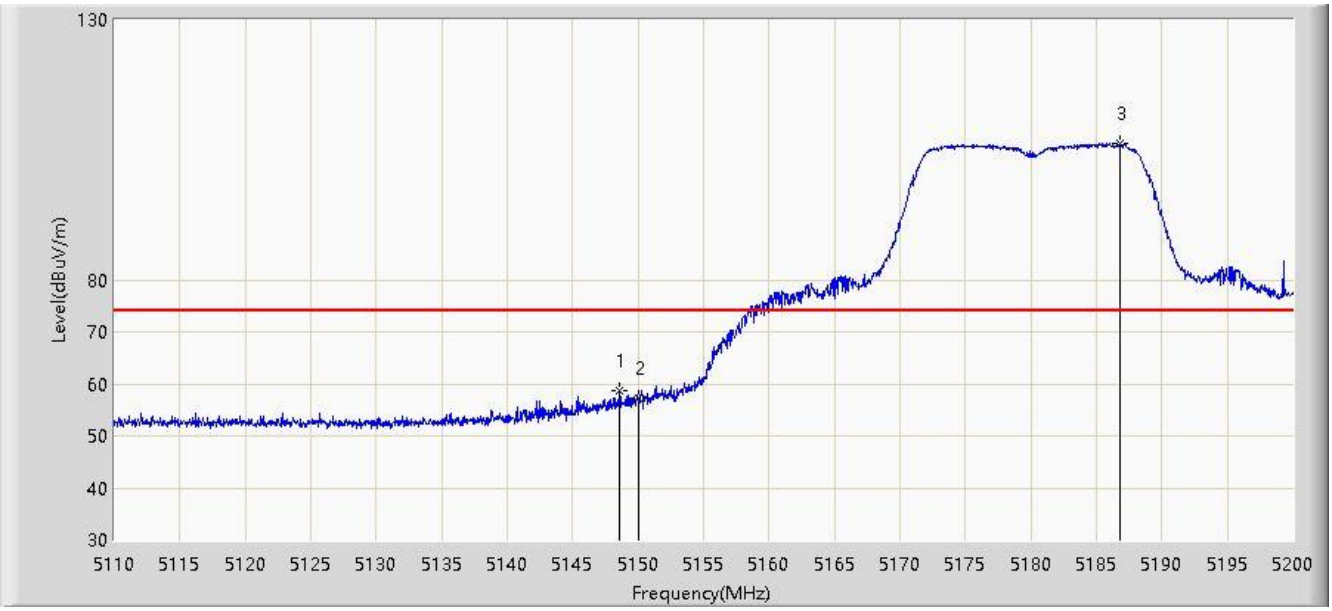
Site: AC2	Time: 2020/06/04 - 22:25
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5825MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5822.257	98.561	96.959	N/A	N/A	1.601	PK
2			5850.000	70.216	68.423	-51.984	122.200	1.792	PK
3			5855.000	65.700	63.898	-45.100	110.800	1.802	PK
4			5875.000	55.114	53.243	-50.086	105.200	1.872	PK
5		*	5925.000	53.761	51.692	-14.439	68.200	2.069	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 22:29
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz	

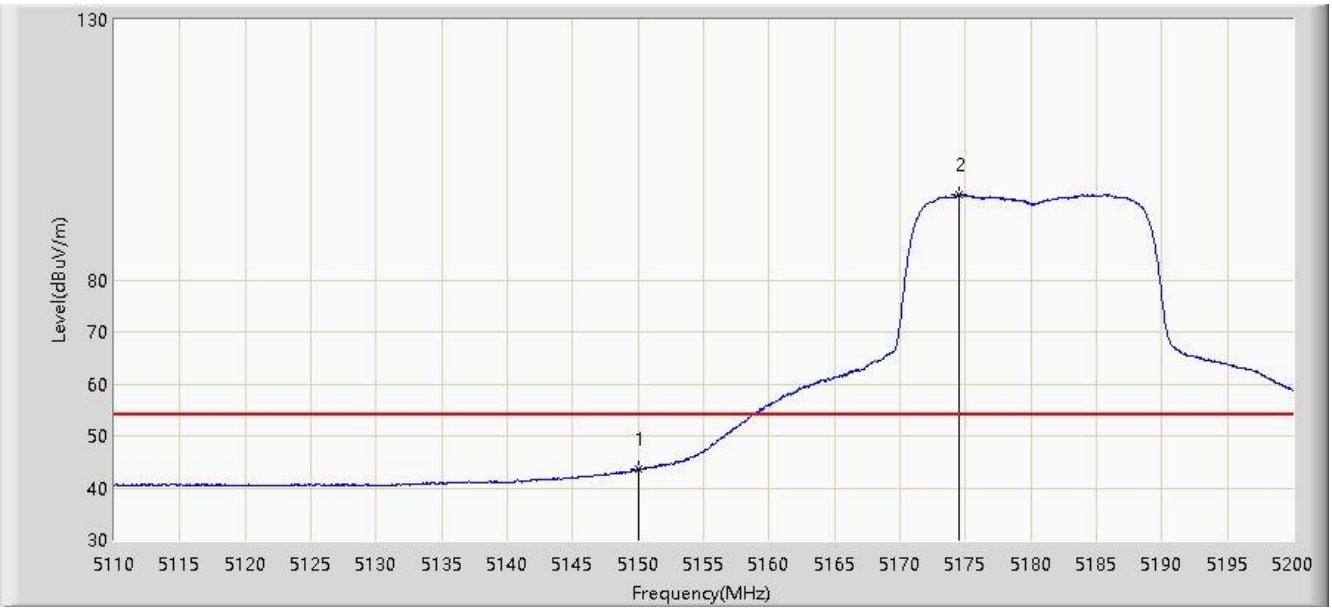


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5148.610	58.716	58.326	-15.284	74.000	0.391	PK
2			5150.000	57.229	56.827	-16.771	74.000	0.402	PK
3		*	5186.860	106.263	105.957	N/A	N/A	0.307	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 22:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz	

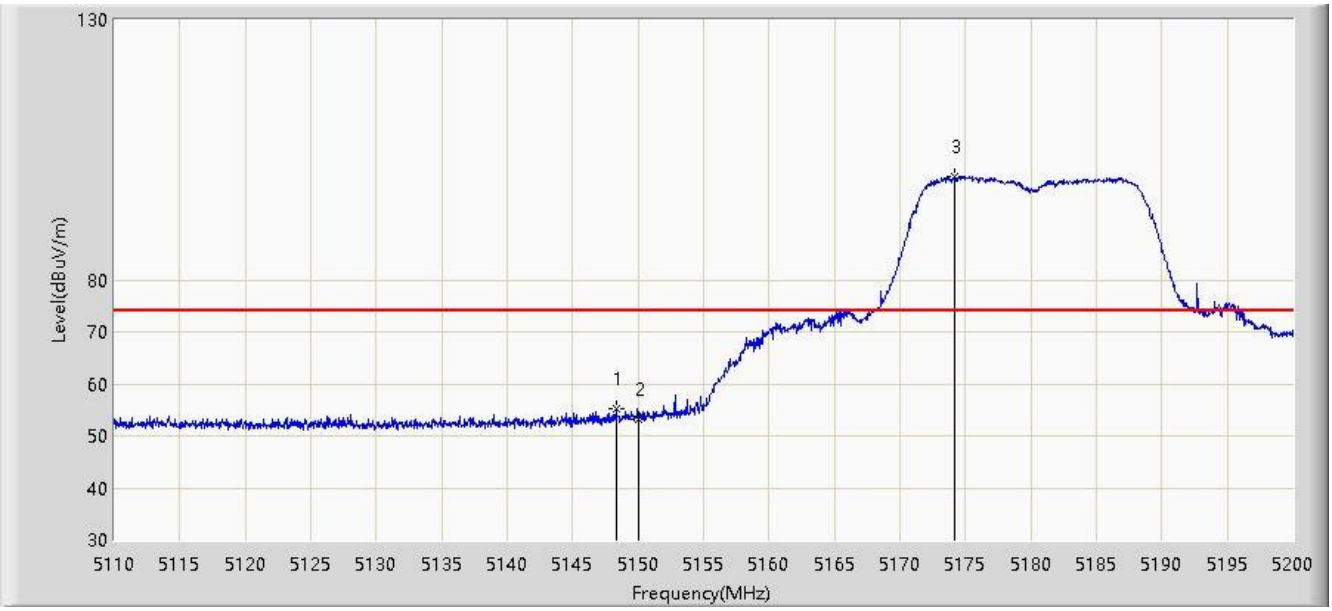


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	43.520	43.118	-10.480	54.000	0.402	AV
2		*	5174.485	96.338	95.923	N/A	N/A	0.415	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 22:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz	

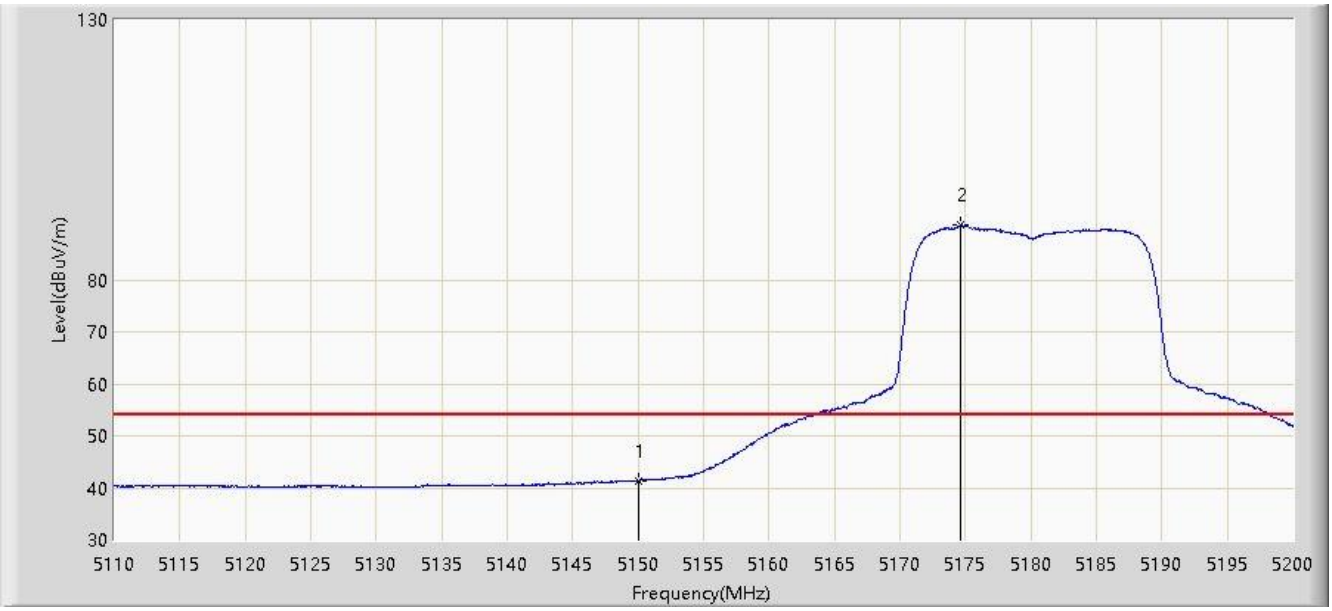


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5148.340	55.155	54.767	-18.845	74.000	0.389	PK
2			5150.000	53.267	52.865	-20.733	74.000	0.402	PK
3		*	5174.170	99.972	99.554	N/A	N/A	0.419	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 22:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5180MHz	

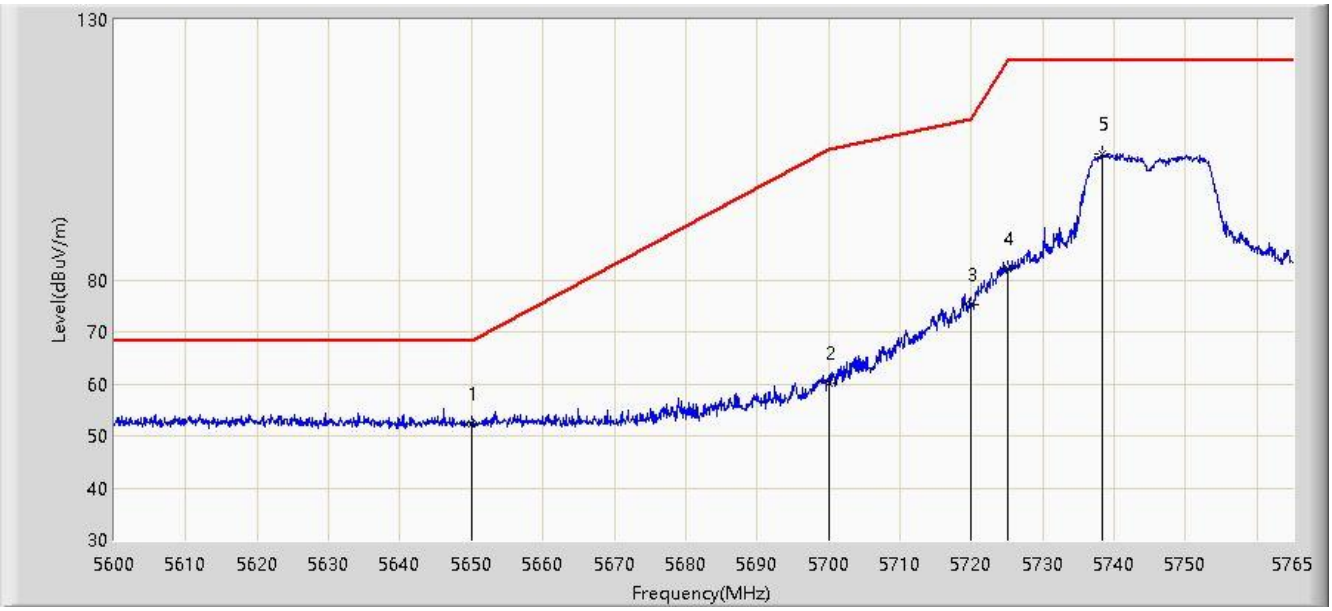


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	41.381	40.979	-12.619	54.000	0.402	AV
2		*	5174.665	90.456	90.043	N/A	N/A	0.413	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 22:41
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5745MHz	

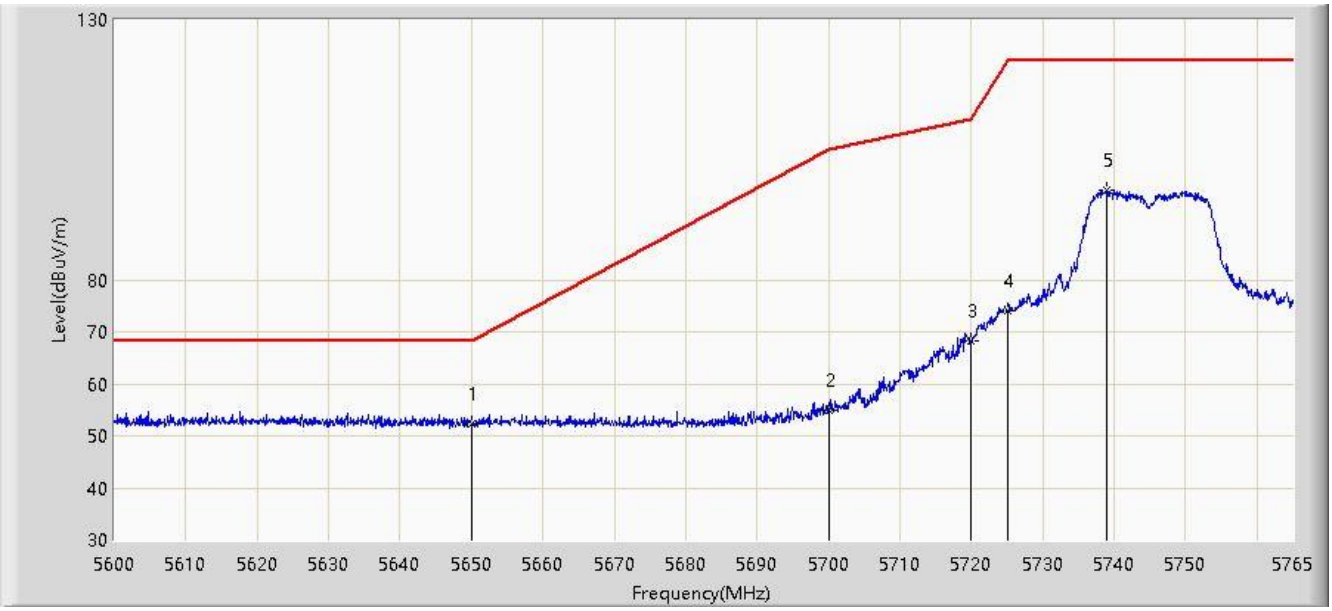


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5650.000	52.444	51.071	-15.756	68.200	1.373	PK
2			5700.000	60.194	58.930	-45.006	105.200	1.264	PK
3			5720.000	75.074	73.612	-35.726	110.800	1.462	PK
4			5725.000	82.068	80.635	-40.132	122.200	1.433	PK
5			5738.270	104.112	102.742	N/A	N/A	1.370	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 22:41
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5745MHz	

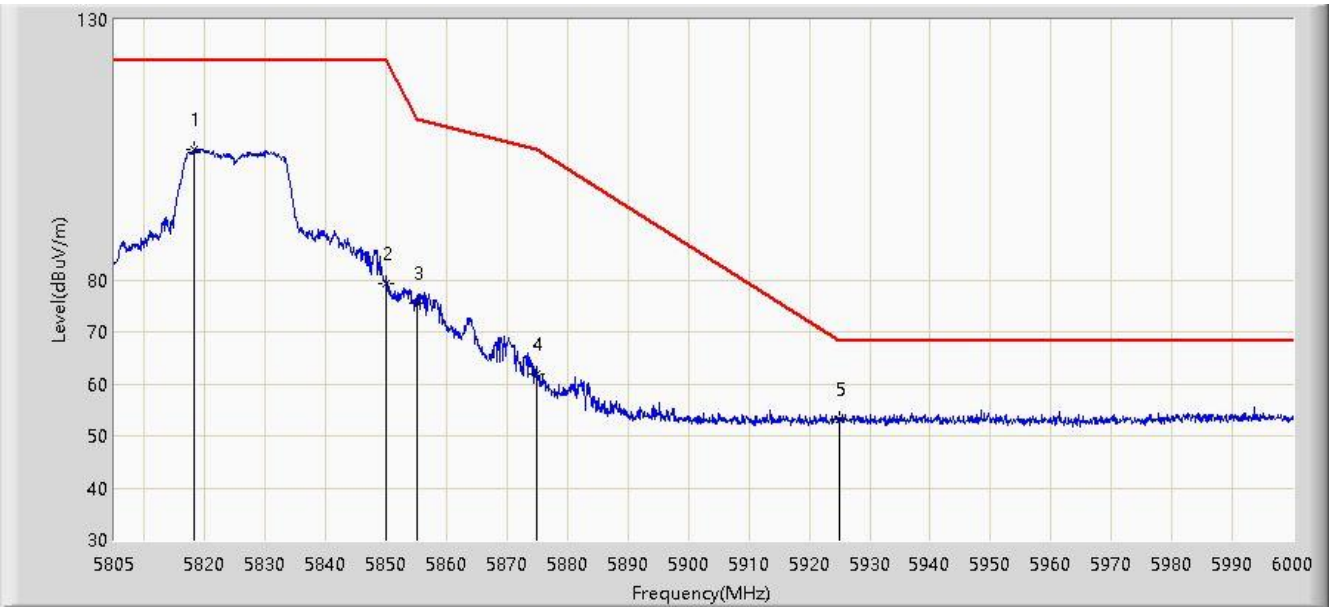


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5650.000	52.281	50.908	-15.919	68.200	1.373	PK
2			5700.000	54.819	53.555	-50.381	105.200	1.264	PK
3			5720.000	68.234	66.772	-42.566	110.800	1.462	PK
4			5725.000	74.070	72.637	-48.130	122.200	1.433	PK
5			5738.848	97.350	95.983	N/A	N/A	1.367	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 22:44
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5825MHz	

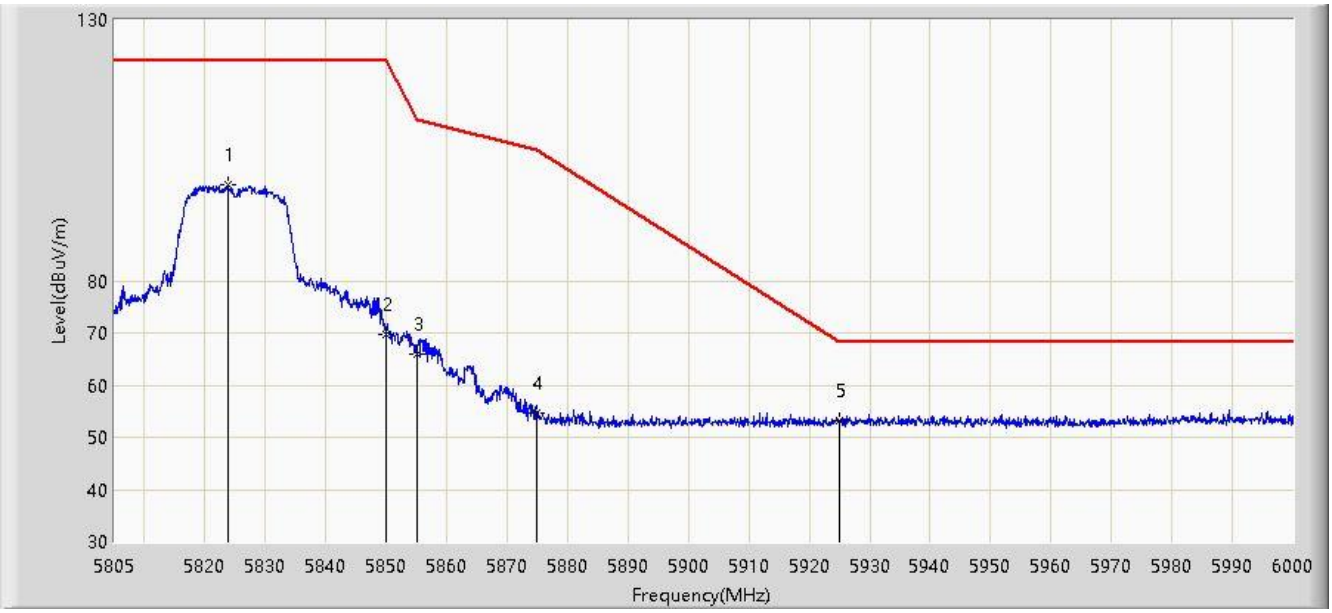


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5818.260	105.073	103.437	N/A	N/A	1.636	PK
2			5850.000	79.307	77.514	-42.893	122.200	1.792	PK
3			5855.000	75.499	73.697	-35.301	110.800	1.802	PK
4			5875.000	61.785	59.914	-43.415	105.200	1.872	PK
5		*	5925.000	53.215	51.146	-14.985	68.200	2.069	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 22:45
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at Channel 5825MHz	

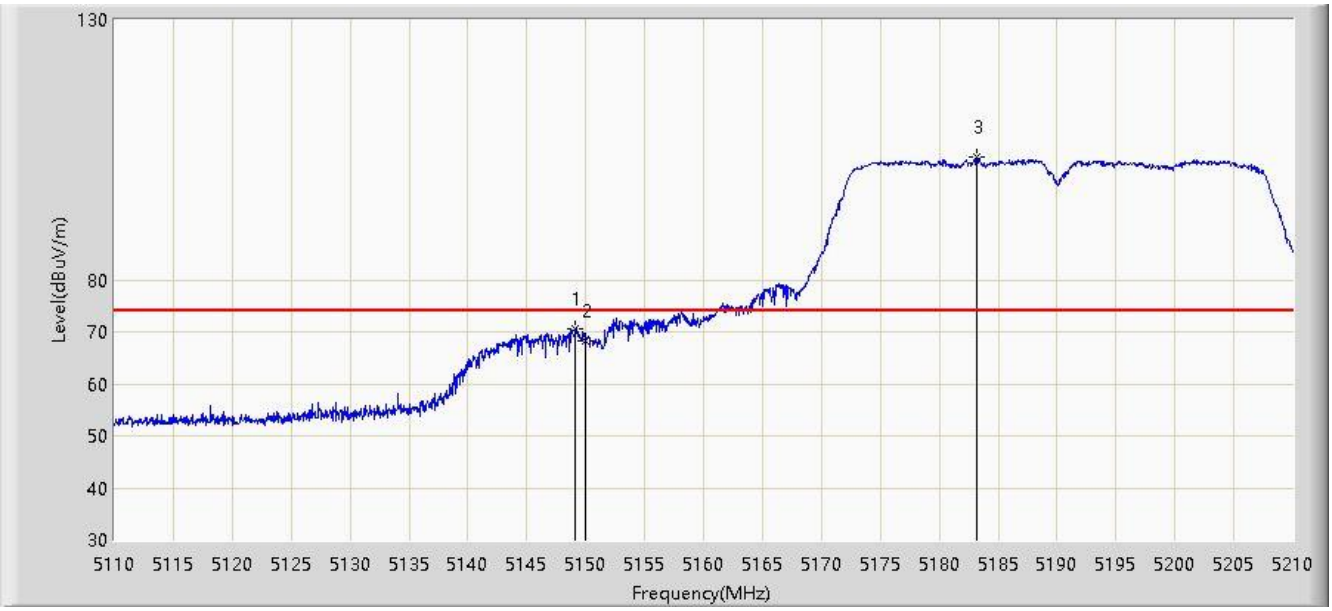


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5823.720	98.502	96.913	N/A	N/A	1.589	PK
2			5850.000	69.817	68.024	-52.383	122.200	1.792	PK
3			5855.000	65.957	64.155	-44.843	110.800	1.802	PK
4			5875.000	54.736	52.865	-50.464	105.200	1.872	PK
5		*	5925.000	53.117	51.048	-15.083	68.200	2.069	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/06 - 00:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5190MHz	

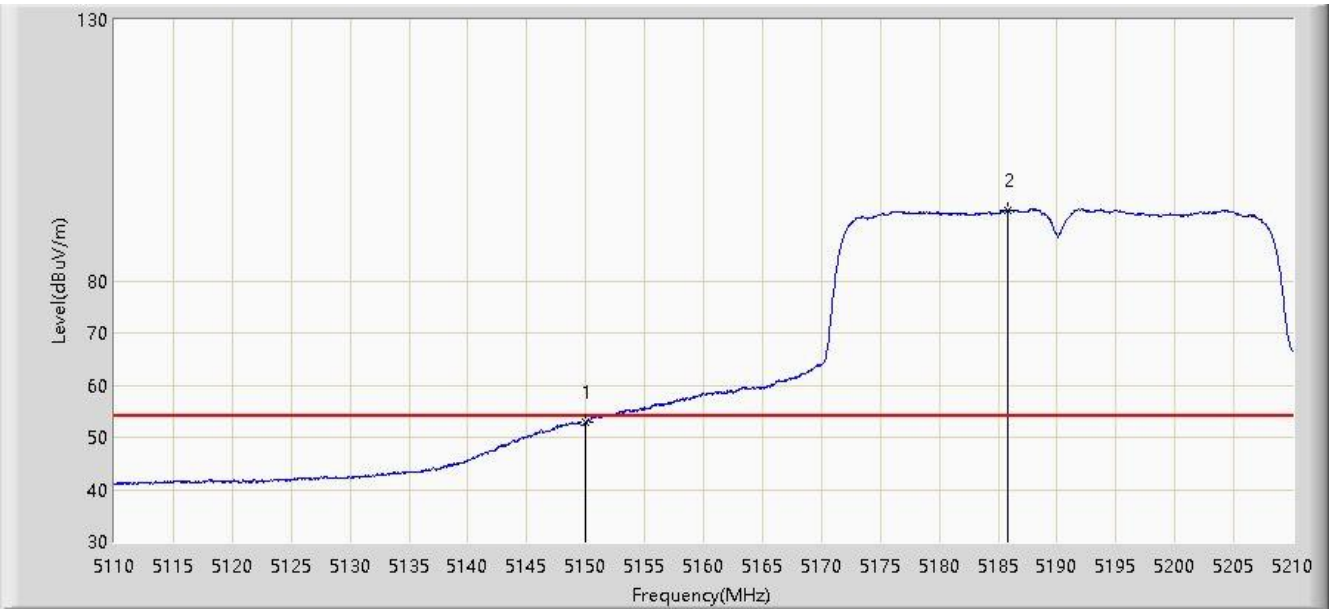


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.150	70.574	70.179	-3.426	74.000	0.395	PK
2			5150.000	68.404	68.002	-5.596	74.000	0.402	PK
3		*	5183.200	103.493	103.171	N/A	N/A	0.323	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/06 - 00:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5190MHz	

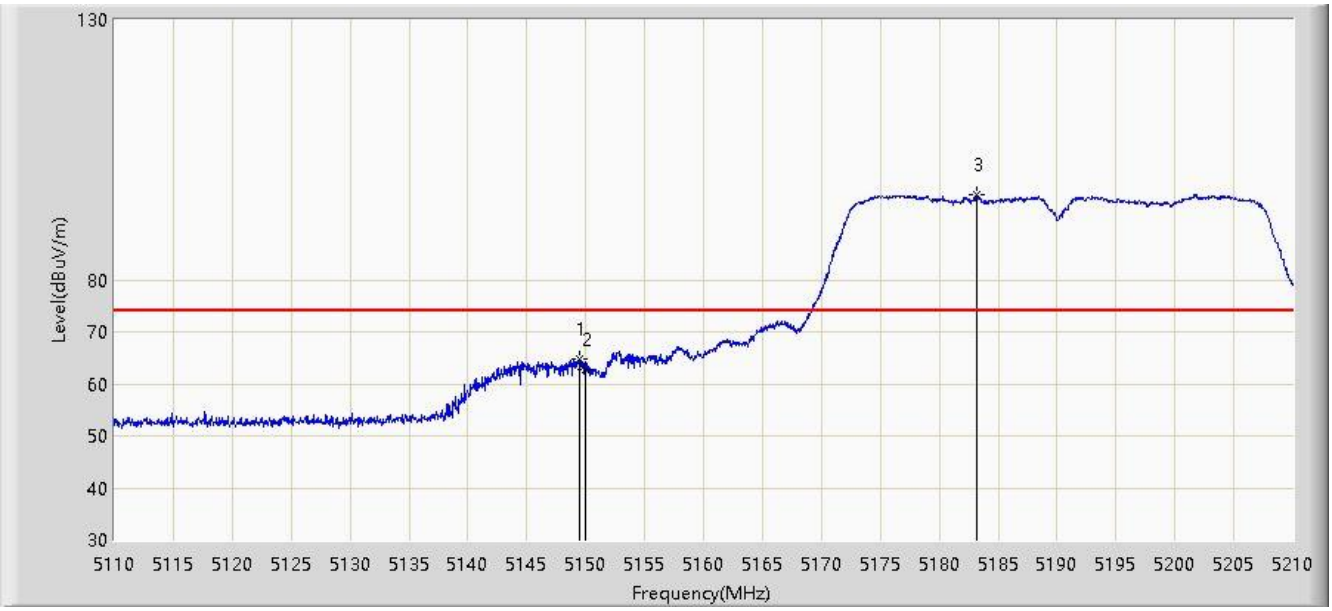


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	52.933	52.531	-1.067	54.000	0.402	AV
2		*	5185.850	93.561	93.250	N/A	N/A	0.311	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/06 - 00:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5190MHz	

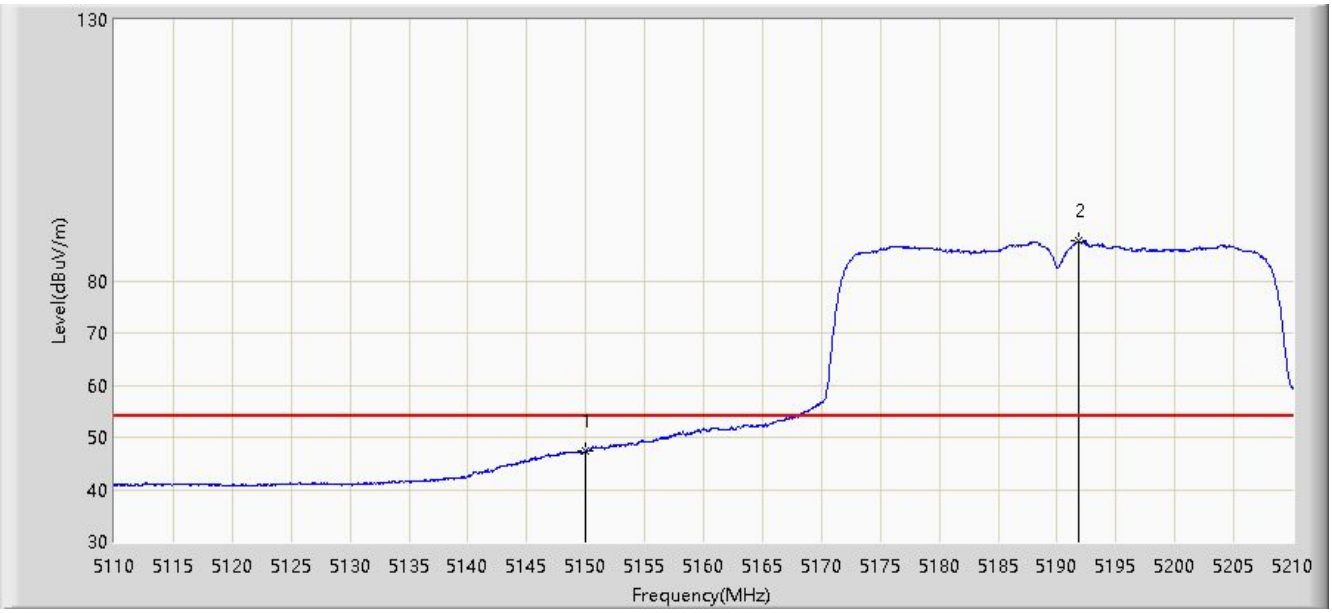


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.500	64.658	64.260	-9.342	74.000	0.398	PK
2			5150.000	62.644	62.242	-11.356	74.000	0.402	PK
3		*	5183.200	96.356	96.034	N/A	N/A	0.323	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/06 - 00:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5190MHz	

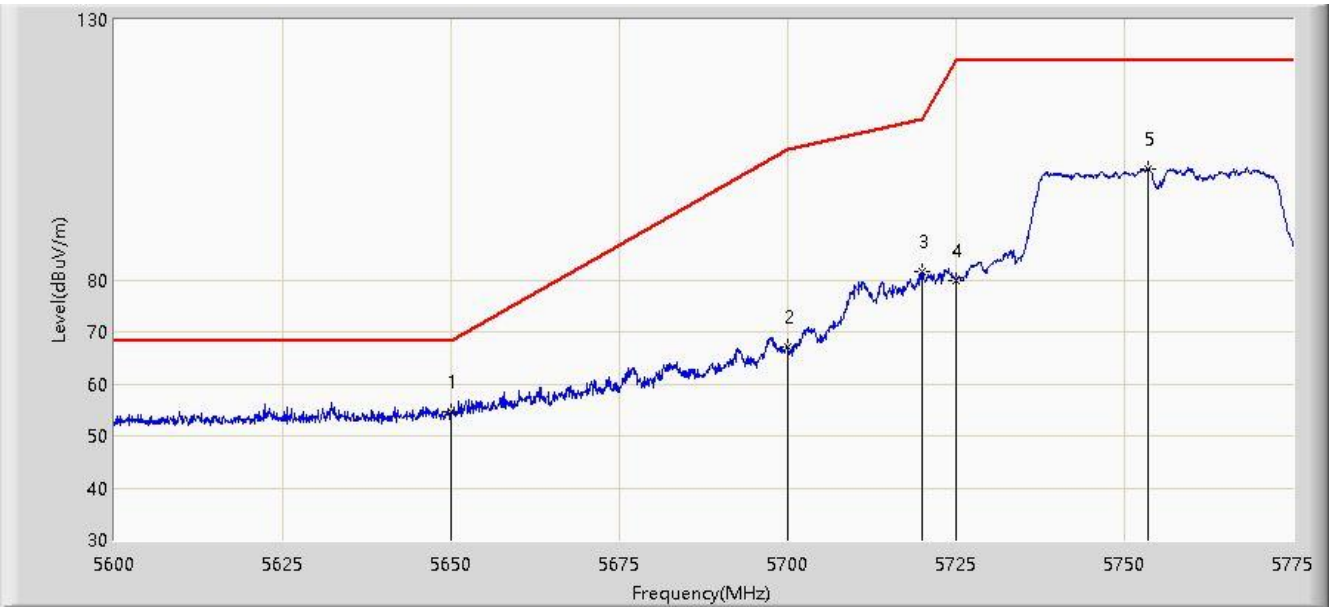


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	47.269	46.867	-6.731	54.000	0.402	AV
2		*	5191.800	87.623	87.336	N/A	N/A	0.287	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 23:02
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5755MHz	

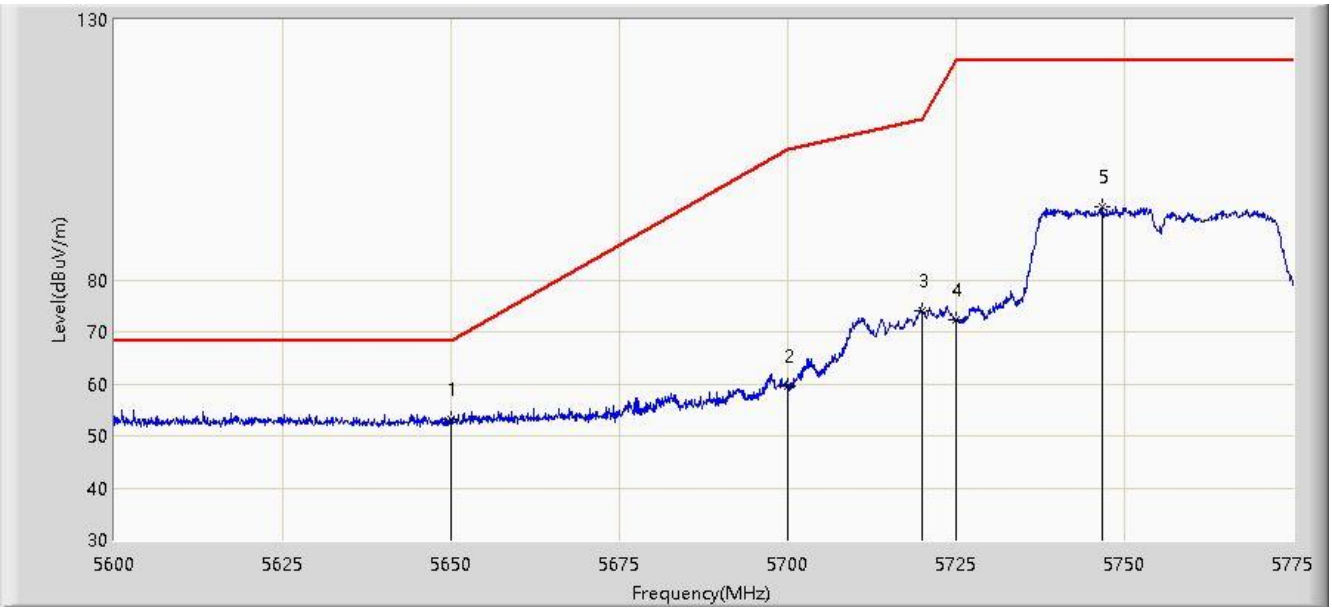


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5650.000	54.658	53.285	-13.542	68.200	1.373	PK
2			5700.000	67.114	65.850	-38.086	105.200	1.264	PK
3			5720.000	81.632	80.170	-29.168	110.800	1.462	PK
4			5725.000	79.988	78.555	-42.212	122.200	1.433	PK
5			5753.475	101.300	99.676	N/A	N/A	1.624	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 23:03
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5755MHz	

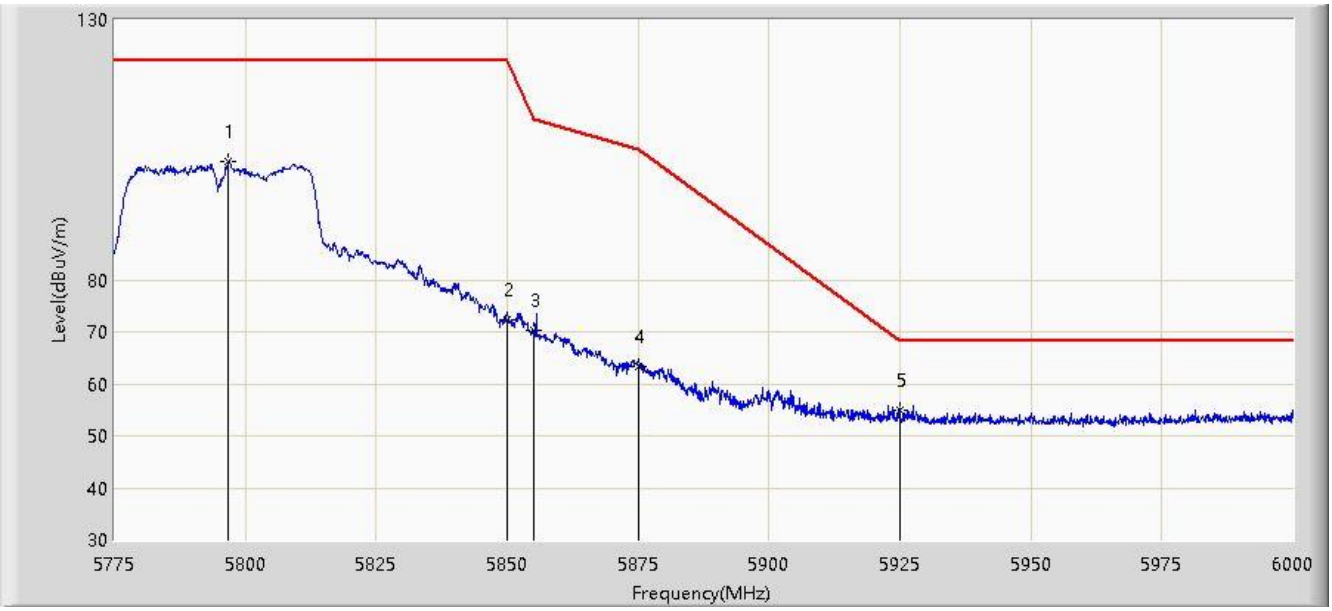


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5650.000	53.129	51.756	-15.071	68.200	1.373	PK
2			5700.000	59.610	58.346	-45.590	105.200	1.264	PK
3			5720.000	73.949	72.487	-36.851	110.800	1.462	PK
4			5725.000	72.244	70.811	-49.956	122.200	1.433	PK
5			5746.737	93.980	92.514	N/A	N/A	1.466	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 23:07
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5795MHz	

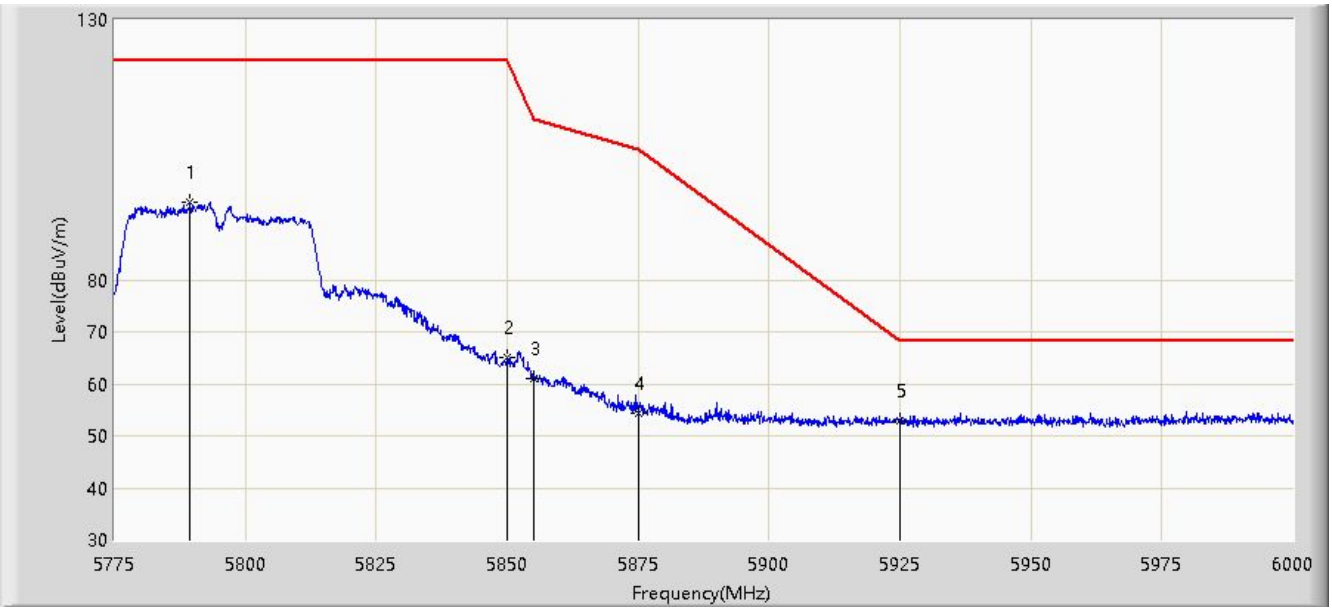


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5796.712	102.852	101.229	N/A	N/A	1.624	PK
2			5850.000	72.291	70.498	-49.909	122.200	1.792	PK
3			5855.000	70.346	68.544	-40.454	110.800	1.802	PK
4			5875.000	63.409	61.538	-41.791	105.200	1.872	PK
5		*	5925.000	54.821	52.752	-13.379	68.200	2.069	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 23:08
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at Channel 5795MHz	

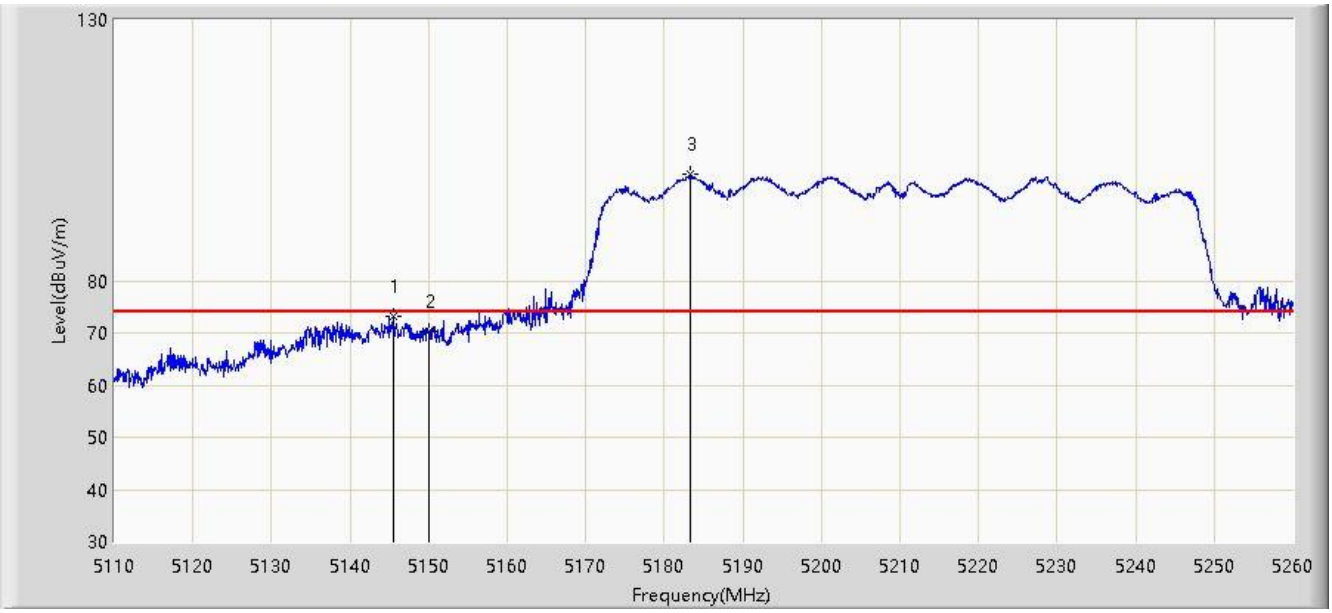


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5789.513	94.887	93.222	N/A	N/A	1.665	PK
2			5850.000	65.077	63.284	-57.123	122.200	1.792	PK
3			5855.000	61.083	59.281	-49.717	110.800	1.802	PK
4			5875.000	54.322	52.451	-50.878	105.200	1.872	PK
5		*	5925.000	52.828	50.759	-15.372	68.200	2.069	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/06 - 00:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at channel 5210MHz	

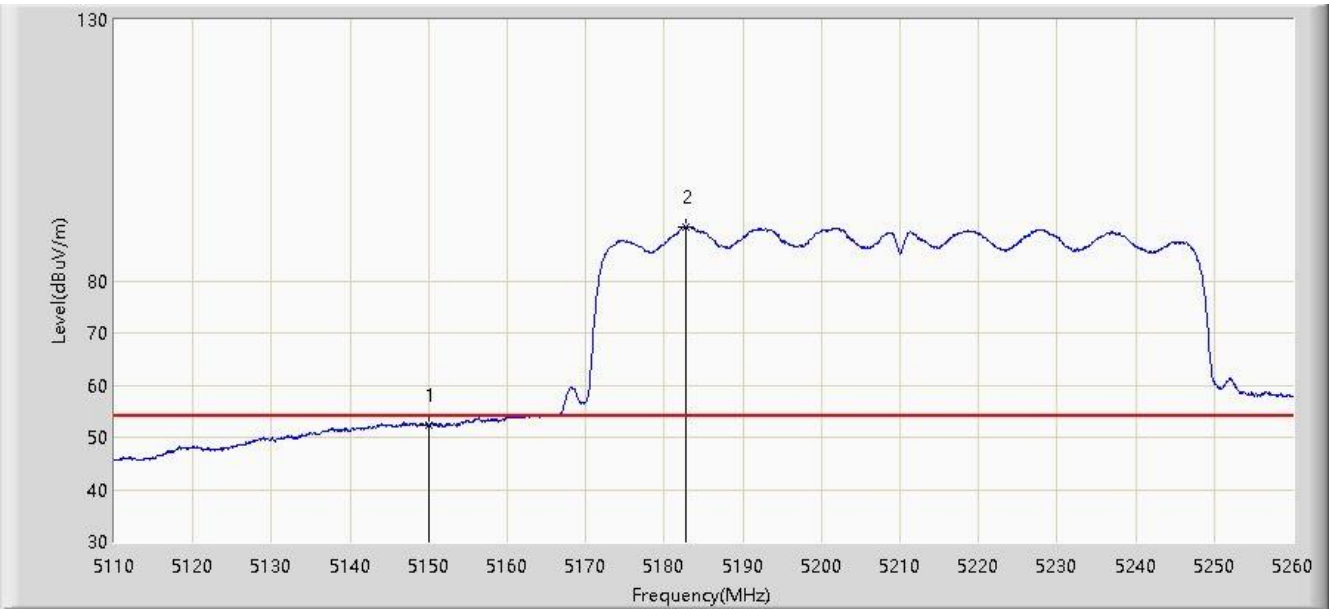


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5145.550	73.286	72.923	-0.714	74.000	0.364	PK
2			5150.000	70.153	69.751	-3.847	74.000	0.402	PK
3		*	5183.275	100.347	100.025	N/A	N/A	0.323	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/06 - 00:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at channel 5210MHz	

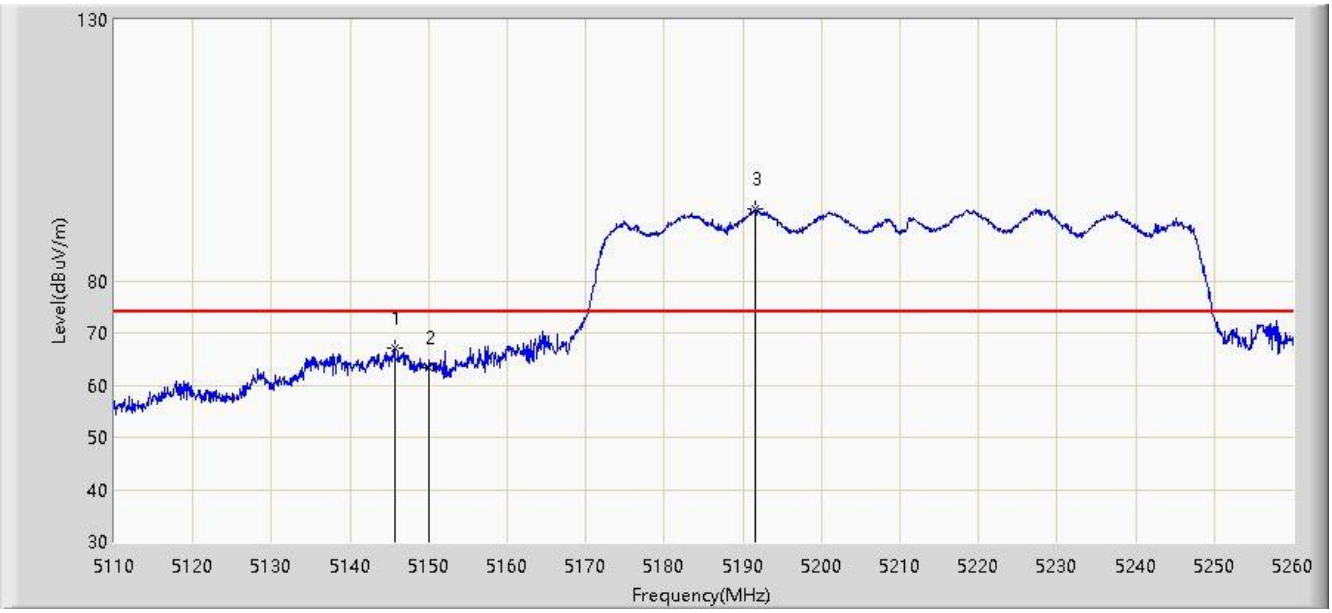


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	52.318	51.916	-1.682	54.000	0.402	AV
2		*	5182.675	90.406	90.080	N/A	N/A	0.326	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/06 - 00:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at channel 5210MHz	

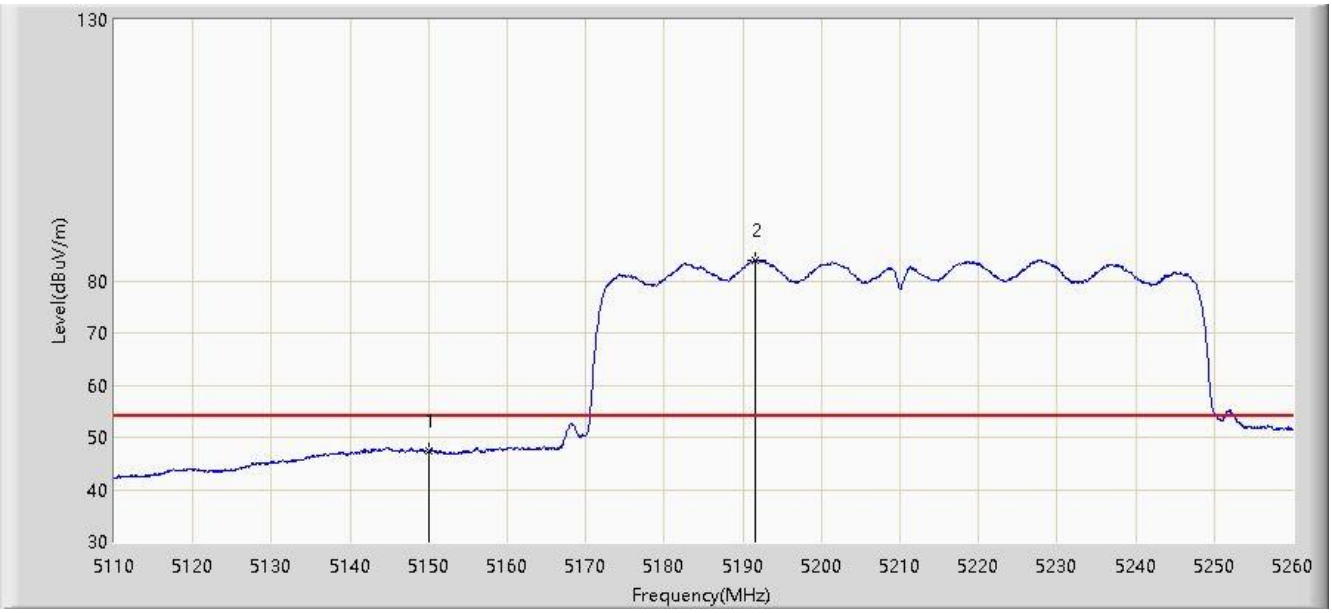


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5145.625	67.095	66.731	-6.905	74.000	0.364	PK
2			5150.000	63.419	63.017	-10.581	74.000	0.402	PK
3		*	5191.525	93.676	93.388	N/A	N/A	0.288	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/06 - 00:52
Limit: FCC_Part15.209_RE(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at channel 5210MHz	

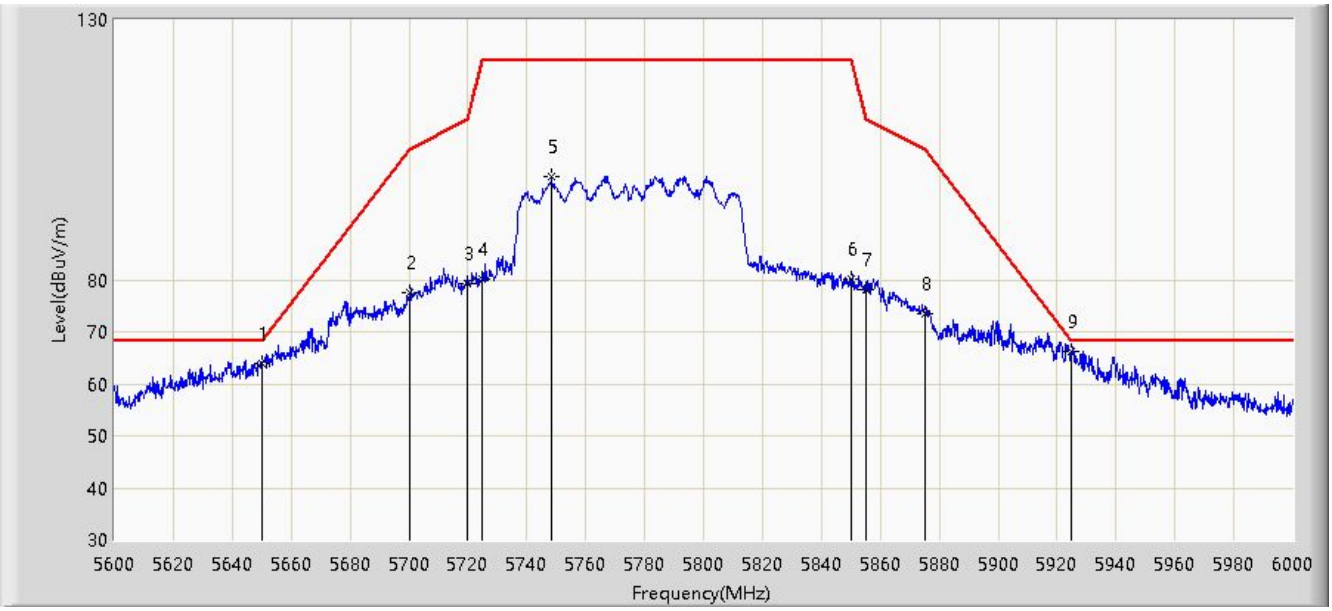


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	47.387	46.985	-6.613	54.000	0.402	AV
2		*	5191.600	83.917	83.629	N/A	N/A	0.287	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 23:16
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5775MHz	

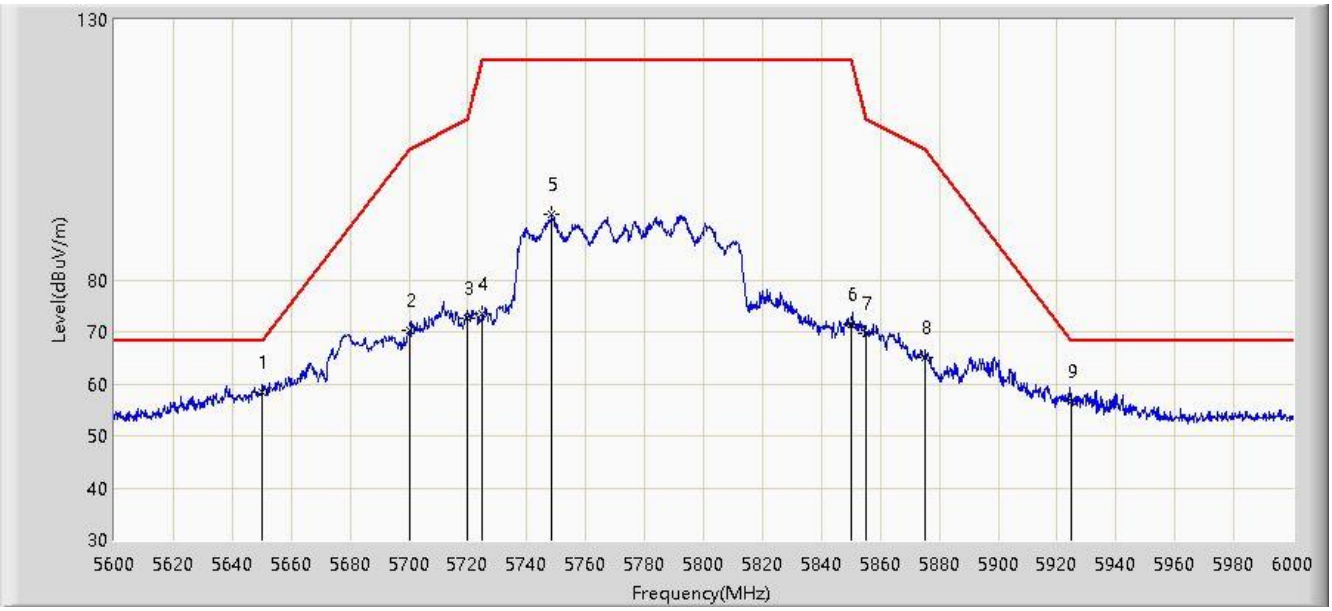


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5650.000	63.817	62.444	-4.383	68.200	1.373	PK
2			5700.000	77.555	76.291	-27.645	105.200	1.264	PK
3			5720.000	79.353	77.891	-31.447	110.800	1.462	PK
4			5725.000	80.114	78.681	-42.086	122.200	1.433	PK
5			5748.400	99.750	98.245	N/A	N/A	1.504	PK
6			5850.000	80.061	78.268	-42.139	122.200	1.792	PK
7			5855.000	78.049	76.247	-32.751	110.800	1.802	PK
8			5875.000	73.462	71.591	-31.738	105.200	1.872	PK
9		*	5925.000	66.344	64.275	-1.856	68.200	2.069	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC2	Time: 2020/06/04 - 23:17
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Hyde Yu
Probe: AC2_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at Channel 5775MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5650.000	58.326	56.953	-9.874	68.200	1.373	PK
2			5700.000	70.260	68.996	-34.940	105.200	1.264	PK
3			5720.000	72.741	71.279	-38.059	110.800	1.462	PK
4			5725.000	73.502	72.069	-48.698	122.200	1.433	PK
5			5748.600	92.608	91.099	N/A	N/A	1.509	PK
6			5850.000	71.418	69.625	-50.782	122.200	1.792	PK
7			5855.000	69.738	67.936	-41.062	110.800	1.802	PK
8			5875.000	65.211	63.340	-39.989	105.200	1.872	PK
9			5925.000	56.781	54.712	-11.419	68.200	2.069	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

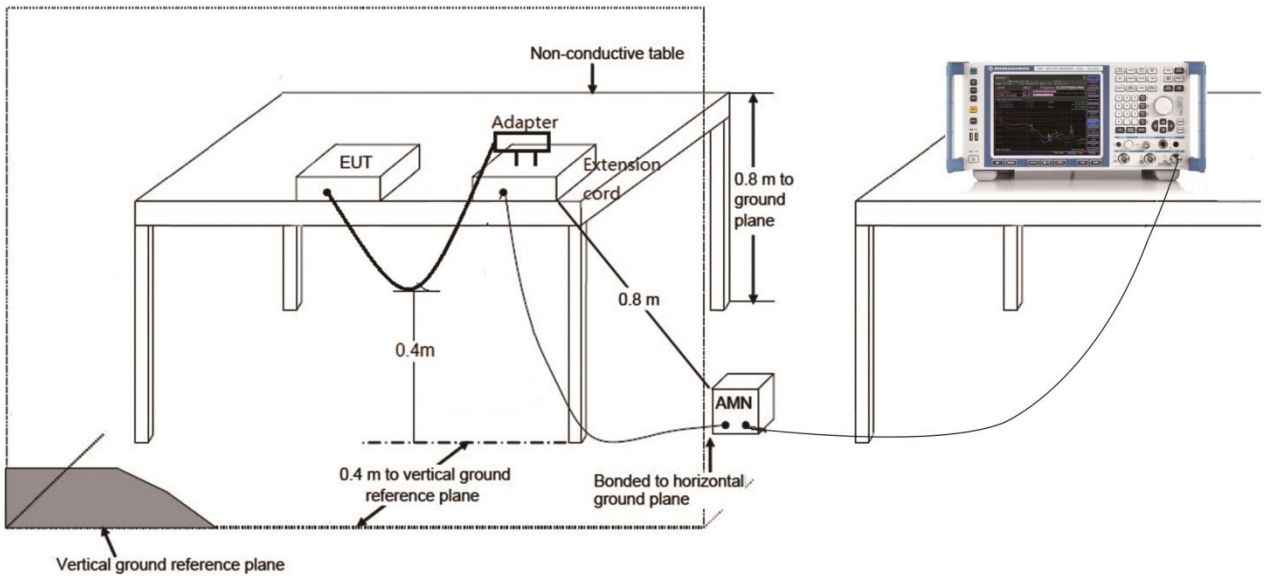
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

7.10. AC Conducted Emissions Measurement

7.10.1. Test Limit

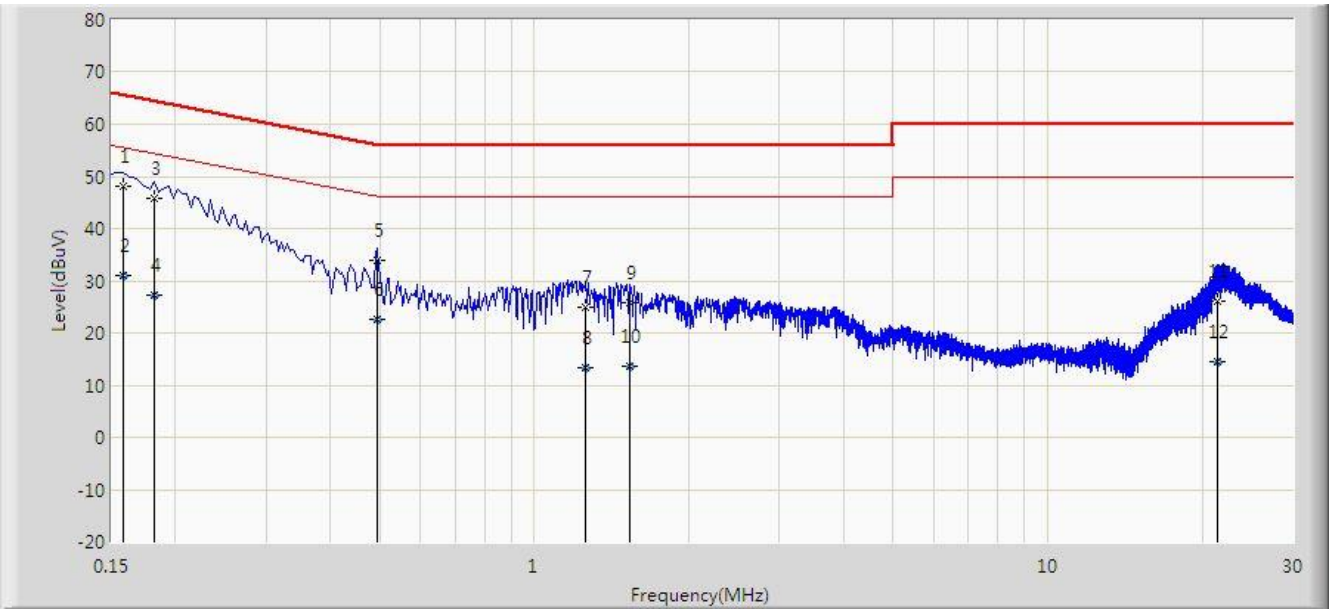
FCC Part 15.207 Limit		
Frequency (MHz)	QP (dBμV)	Average (dBμV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50
Note 1: The lower limit shall apply at the transition frequencies. Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.		

7.10.2. Test Setup



7.10.3.Test Result

Site: SR2	Time: 2020/07/02 - 03:42
Limit: FCC_Part15.207_CE_AC Power	Engineer: Dillon Diao
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	



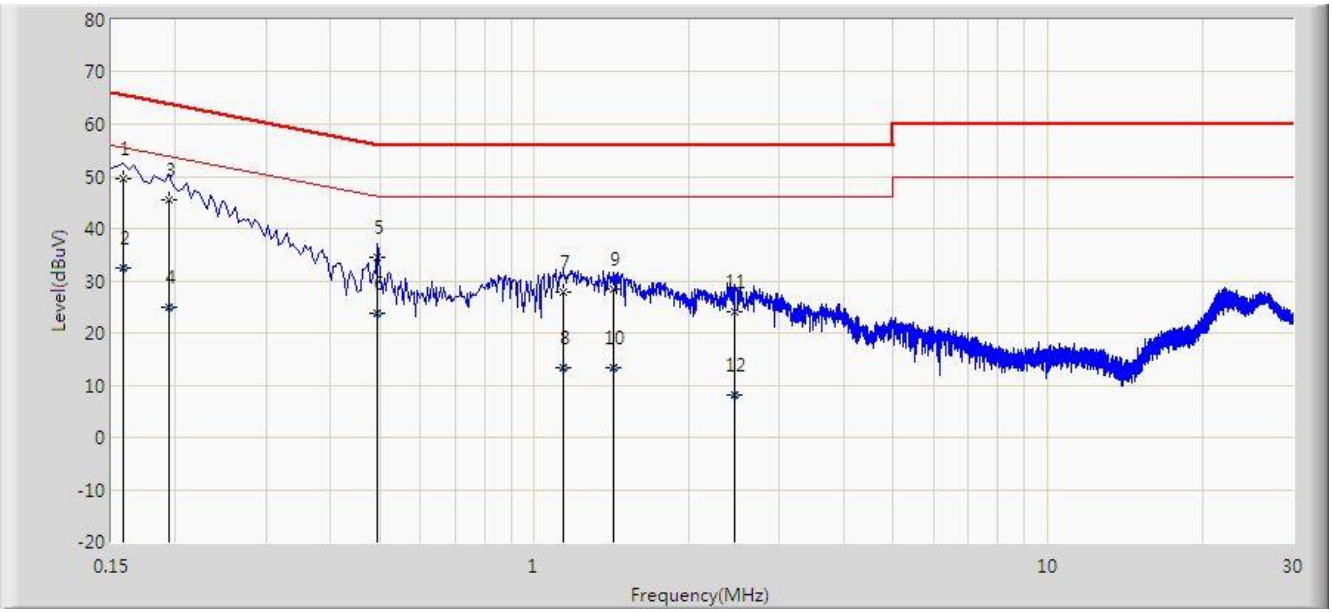
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.158	48.113	38.467	-17.455	65.568	9.646	QP
2			0.158	30.983	21.337	-24.585	55.568	9.646	AV
3			0.182	45.897	36.241	-18.497	64.394	9.657	QP
4			0.182	27.382	17.725	-27.012	54.394	9.657	AV
5			0.494	33.998	24.263	-22.102	56.100	9.735	QP
6			0.494	22.594	12.859	-23.506	46.100	9.735	AV
7			1.258	25.010	15.140	-30.990	56.000	9.870	QP
8			1.258	13.206	3.336	-32.794	46.000	9.870	AV
9			1.538	25.810	15.944	-30.190	56.000	9.867	QP
10			1.538	13.734	3.868	-32.266	46.000	9.867	AV
11			21.446	26.070	15.714	-33.930	60.000	10.356	QP
12			21.446	14.468	4.112	-35.532	50.000	10.356	AV

Note 1: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Note 2: Only exhibited the worst-case test data.

Site: SR2	Time: 2020/07/02 - 03:49
Limit: FCC_Part15.207_CE_AC Power	Engineer: Dillon Diao
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: Smart Camera	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.158	49.674	40.067	-15.895	65.568	9.606	QP
2			0.158	32.390	22.784	-23.178	55.568	9.606	AV
3			0.194	45.617	35.997	-18.246	63.864	9.620	QP
4			0.194	24.828	15.208	-29.036	53.864	9.620	AV
5			0.494	34.419	24.763	-21.682	56.100	9.655	QP
6			0.494	23.690	14.035	-22.410	46.100	9.655	AV
7			1.142	27.963	18.237	-28.037	56.000	9.726	QP
8			1.142	13.374	3.649	-32.626	46.000	9.726	AV
9			1.422	28.541	18.801	-27.459	56.000	9.740	QP
10			1.422	13.388	3.648	-32.612	46.000	9.740	AV
11			2.450	24.000	14.211	-32.000	56.000	9.789	QP
12			2.450	8.241	-1.548	-37.759	46.000	9.789	AV

Note 1: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Note 2: Only exhibited the worst-case test data.

8. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part 15E of the FCC rules

The End

Appendix A - Test Setup Photograph

Refer to “2005RSU047-UT” file.

Appendix B - EUT Photograph

Refer to “2005RSU047-UE” file.