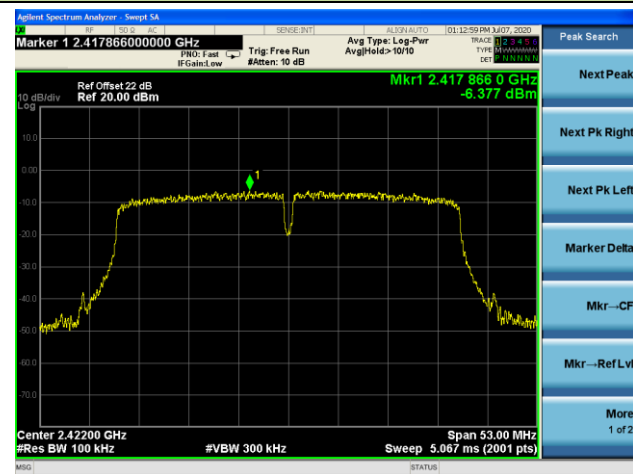


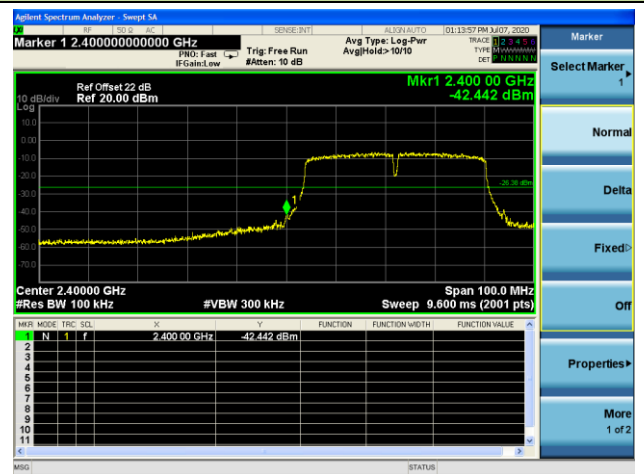
802.11n-HT40 Out-of-Band Emissions

Channel 03 (2422MHz)

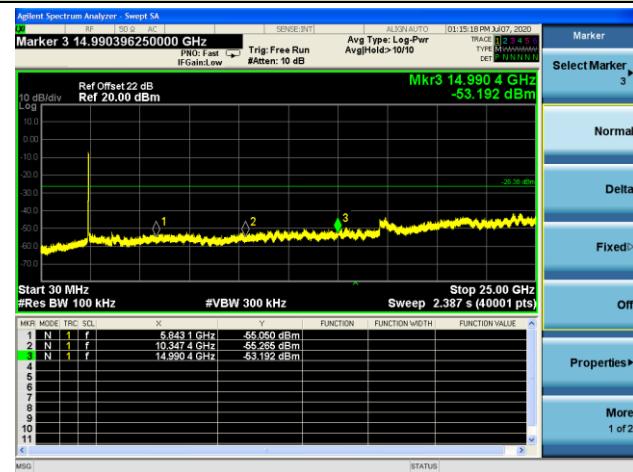
100kHz PSD reference Level



Low Band Edge

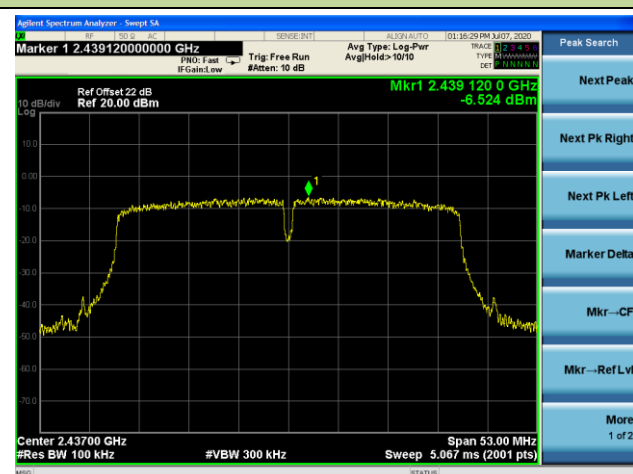


Spurious Emission

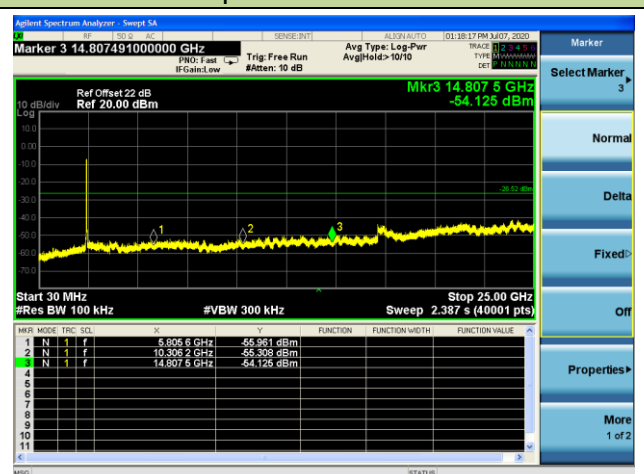


Channel 06 (2437MHz)

100kHz PSD reference Level

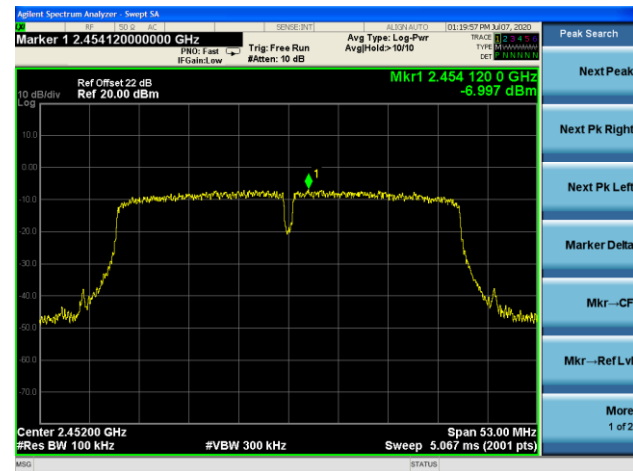


Spurious Emission

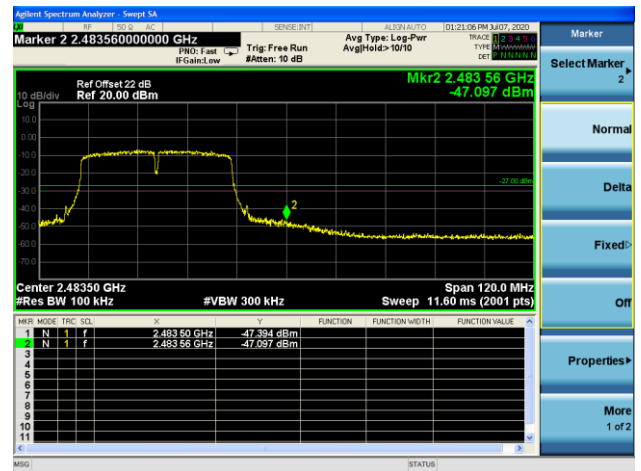


Channel 09 (2452MHz)

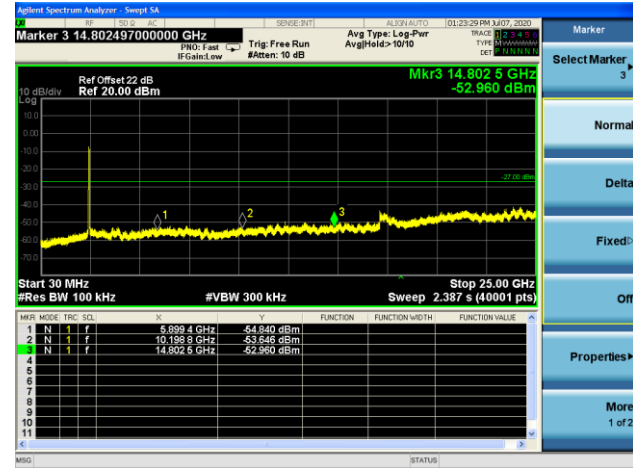
100kHz PSD reference Level



High Band Edge



Spurious Emission



7.6. Radiated Spurious Emission Measurement

7.6.1. 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.

FCC Part 15.209 Limit		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
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

7.6.2. Test Procedure Used

ANSI C63.10-2013 Section 6.3 (General Requirements)

ANSI C63.10-2013 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10-2013 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10-2013 Section 6.6 (Standard test method above 1GHz)

7.6.3. 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
> 1000MHz	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

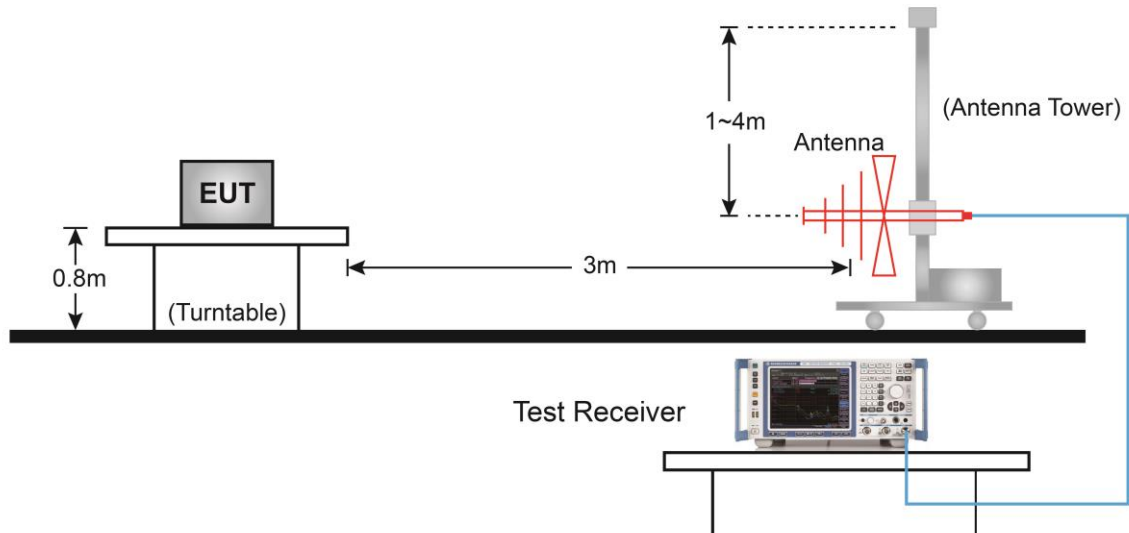
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.

If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$. T is the minimum transmission duration.

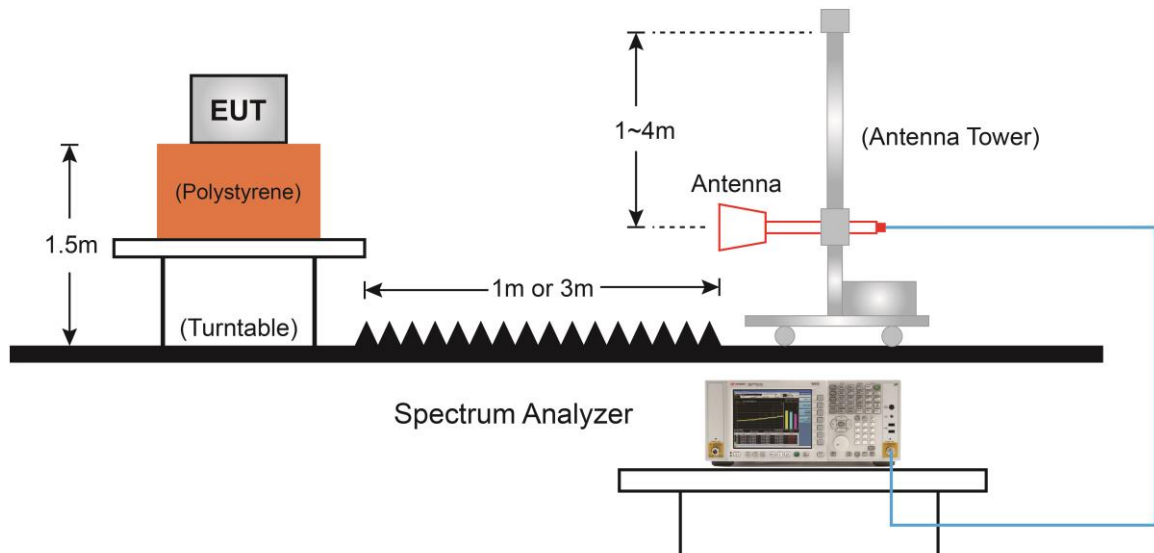
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

7.6.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



7.6.5. Test Result

Product	4K OPTICAL VIDEO CAMERA	Temperature	23°C
Test Engineer	Flag Yang	Relative Humidity	53%
Test Site	AC1	Test Date	2020/06/28
Test Mode	802.11b	Test Channel	01
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
	4689.0	33.9	5.3	39.2	74.0	-34.8	Peak	Horizontal
*	6457.0	33.3	9.2	42.5	74.0	-31.5	Peak	Horizontal
	7528.0	33.5	11.8	45.3	74.0	-28.7	Peak	Horizontal
*	10384.0	32.6	17.6	50.2	74.0	-23.8	Peak	Horizontal
	4816.5	33.6	6.0	39.6	74.0	-34.4	Peak	Vertical
*	5930.0	33.4	7.8	41.2	74.0	-32.8	Peak	Vertical
	7596.0	33.6	11.8	45.4	74.0	-28.6	Peak	Vertical
*	9763.5	31.6	16.7	48.3	74.0	-25.7	Peak	Vertical

Note 1: "*" is not in restricted band.

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	4K OPTICAL VIDEO CAMERA	Temperature	23°C
Test Engineer	Flag Yang	Relative Humidity	53%
Test Site	AC1	Test Date	2020/06/28
Test Mode	802.11b	Test Channel	06
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
	4646.5	33.8	5.3	39.1	74.0	-34.9	Peak	Horizontal
*	6491.0	32.5	9.4	41.9	74.0	-32.1	Peak	Horizontal
	7536.5	31.5	11.8	43.3	74.0	-30.7	Peak	Horizontal
*	9797.5	30.8	16.8	47.6	74.0	-26.4	Peak	Horizontal
	4731.5	33.6	5.6	39.2	74.0	-34.8	Peak	Vertical
*	6635.5	33.2	9.6	42.8	74.0	-31.2	Peak	Vertical
	7596.0	34.5	11.8	46.3	74.0	-27.7	Peak	Vertical
*	10078.0	31.6	16.8	48.4	74.0	-25.6	Peak	Vertical

Note 1: “*” is not in restricted band.

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	4K OPTICAL VIDEO CAMERA	Temperature	23°C
Test Engineer	Flag Yang	Relative Humidity	53%
Test Site	AC1	Test Date	2020/06/28
Test Mode	802.11b	Test Channel	11
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
	4799.5	33.5	5.8	39.3	74.0	-34.7	Peak	Horizontal
*	6482.5	32.8	9.3	42.1	74.0	-31.9	Peak	Horizontal
	7494.0	33.7	11.8	45.5	74.0	-28.5	Peak	Horizontal
*	9925.0	31.4	16.8	48.2	74.0	-25.8	Peak	Horizontal
	5097.0	32.9	6.8	39.7	74.0	-34.3	Peak	Vertical
*	5641.0	35.1	7.0	42.1	74.0	-31.9	Peak	Vertical
	7324.0	34.4	11.5	45.9	74.0	-28.1	Peak	Vertical
*	9593.5	31.4	16.3	47.7	74.0	-26.3	Peak	Vertical

Note 1: “*” is not in restricted band.

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	4K OPTICAL VIDEO CAMERA	Temperature	23°C
Test Engineer	Flag Yang	Relative Humidity	53%
Test Site	AC1	Test Date	2020/06/28
Test Mode	802.11g	Test Channel	01
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
	4833.5	34.2	6.0	40.2	74.0	-33.8	Peak	Horizontal
*	5955.5	32.9	7.7	40.6	74.0	-33.4	Peak	Horizontal
	7604.5	32.8	11.8	44.6	74.0	-29.4	Peak	Horizontal
*	10273.5	32.1	17.3	49.4	74.0	-24.6	Peak	Horizontal
	4876.0	34.4	5.9	40.3	74.0	-33.7	Peak	Vertical
*	6100.0	33.5	8.1	41.6	74.0	-32.4	Peak	Vertical
	7528.0	34.0	11.8	45.8	74.0	-28.2	Peak	Vertical
*	10069.5	31.3	16.8	48.1	74.0	-25.9	Peak	Vertical

Note 1: “*” is not in restricted band.

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	4K OPTICAL VIDEO CAMERA	Temperature	23°C
Test Engineer	Flag Yang	Relative Humidity	53%
Test Site	AC1	Test Date	2020/06/28
Test Mode	802.11g	Test Channel	06
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
	4672.0	33.8	5.3	39.1	74.0	-34.9	Peak	Horizontal
*	6533.5	32.5	9.6	42.1	74.0	-31.9	Peak	Horizontal
	7519.5	32.7	11.9	44.6	74.0	-29.4	Peak	Horizontal
*	10265.0	32.2	17.2	49.4	74.0	-24.6	Peak	Horizontal
	5037.5	34.3	6.5	40.8	74.0	-33.2	Peak	Vertical
*	6474.0	34.0	9.1	43.1	74.0	-30.9	Peak	Vertical
	7596.0	33.5	11.8	45.3	74.0	-28.7	Peak	Vertical
*	10324.5	31.8	17.4	49.2	74.0	-24.8	Peak	Vertical

Note 1: "*" is not in restricted band.

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	4K OPTICAL VIDEO CAMERA	Temperature	23°C
Test Engineer	Flag Yang	Relative Humidity	53%
Test Site	AC1	Test Date	2020/06/28
Test Mode	802.11g	Test Channel	11
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
	4655.0	33.6	5.4	39.0	74.0	-35.0	Peak	Horizontal
*	5632.5	33.9	7.0	40.9	74.0	-33.1	Peak	Horizontal
	7494.0	34.1	11.8	45.9	74.0	-28.1	Peak	Horizontal
*	10316.0	32.4	17.3	49.7	74.0	-24.3	Peak	Horizontal
	4723.0	33.7	5.6	39.3	74.0	-34.7	Peak	Vertical
*	6185.0	33.3	8.2	41.5	74.0	-32.5	Peak	Vertical
	7477.0	32.8	11.8	44.6	74.0	-29.4	Peak	Vertical
*	10239.5	31.7	17.1	48.8	74.0	-25.2	Peak	Vertical

Note 1: “*” is not in restricted band.

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	4K OPTICAL VIDEO CAMERA	Temperature	23°C
Test Engineer	Flag Yang	Relative Humidity	53%
Test Site	AC1	Test Date	2020/06/28
Test Mode	802.11n-HT20	Test Channel	01
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
	5122.5	34.1	6.8	40.9	74.0	-33.1	Peak	Horizontal
*	6516.5	32.9	9.6	42.5	74.0	-31.5	Peak	Horizontal
	7545.0	33.2	11.7	44.9	74.0	-29.1	Peak	Horizontal
*	9831.5	30.8	16.9	47.7	74.0	-26.3	Peak	Horizontal
	4867.5	33.6	5.9	39.5	74.0	-34.5	Peak	Vertical
*	6797.0	33.2	9.8	43.0	74.0	-31.0	Peak	Vertical
	8106.0	34.6	12.7	47.3	74.0	-26.7	Peak	Vertical
*	9950.5	30.5	16.9	47.4	74.0	-26.6	Peak	Vertical

Note 1: “*” is not in restricted band.

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	4K OPTICAL VIDEO CAMERA	Temperature	23°C
Test Engineer	Flag Yang	Relative Humidity	53%
Test Site	AC1	Test Date	2020/06/28
Test Mode	802.11n-HT20	Test Channel	06
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
	4884.5	34.8	5.9	40.7	74.0	-33.3	Peak	Horizontal
*	6414.5	33.4	9.0	42.4	74.0	-31.6	Peak	Horizontal
	7596.0	33.5	11.8	45.3	74.0	-28.7	Peak	Horizontal
*	9755.0	30.7	16.8	47.5	74.0	-26.5	Peak	Horizontal
	4646.5	34.6	5.3	39.9	74.0	-34.1	Peak	Vertical
*	6074.5	33.8	8.0	41.8	74.0	-32.2	Peak	Vertical
	7528.0	33.4	11.8	45.2	74.0	-28.8	Peak	Vertical
*	10375.5	33.5	17.5	51.0	74.0	-23.0	Peak	Vertical

Note 1: “*” is not in restricted band.

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	4K OPTICAL VIDEO CAMERA	Temperature	23°C
Test Engineer	Flag Yang	Relative Humidity	53%
Test Site	AC1	Test Date	2020/06/28
Test Mode	802.11n-HT20	Test Channel	11
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
	4799.5	34.3	5.8	40.1	74.0	-33.9	Peak	Horizontal
*	5998.0	33.5	7.9	41.4	74.0	-32.6	Peak	Horizontal
	7494.0	32.7	11.8	44.5	74.0	-29.5	Peak	Horizontal
*	10384.0	31.6	17.6	49.2	74.0	-24.8	Peak	Horizontal
	4816.5	32.7	6.0	38.7	74.0	-35.3	Peak	Vertical
*	5998.0	32.6	7.9	40.5	74.0	-33.5	Peak	Vertical
	7485.5	33.7	11.8	45.5	74.0	-28.5	Peak	Vertical
*	10392.5	31.8	17.6	49.4	74.0	-24.6	Peak	Vertical

Note 1: “*” is not in restricted band.

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	4K OPTICAL VIDEO CAMERA	Temperature	23°C
Test Engineer	Flag Yang	Relative Humidity	53%
Test Site	AC1	Test Date	2020/06/28
Test Mode	802.11n-HT40	Test Channel	03
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
	4850.5	33.6	5.9	39.5	74.0	-34.5	Peak	Horizontal
*	6193.5	33.2	8.2	41.4	74.0	-32.6	Peak	Horizontal
	7315.5	34.0	11.6	45.6	74.0	-28.4	Peak	Horizontal
*	10528.5	32.7	17.7	50.4	74.0	-23.6	Peak	Horizontal
	4714.5	34.4	5.5	39.9	74.0	-34.1	Peak	Vertical
*	6159.5	33.3	8.2	41.5	74.0	-32.5	Peak	Vertical
	7698.0	32.9	11.7	44.6	74.0	-29.4	Peak	Vertical
*	9959.0	31.5	16.8	48.3	74.0	-25.7	Peak	Vertical

Note 1: “*” is not in restricted band.

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	4K OPTICAL VIDEO CAMERA	Temperature	23°C
Test Engineer	Flag Yang	Relative Humidity	53%
Test Site	AC1	Test Date	2020/06/28
Test Mode	802.11n-HT40	Test Channel	06
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
	4629.5	33.7	5.2	38.9	74.0	-35.1	Peak	Horizontal
*	7026.5	34.0	10.9	44.9	74.0	-29.1	Peak	Horizontal
	8344.0	33.4	12.2	45.6	74.0	-28.4	Peak	Horizontal
*	10384.0	31.9	17.6	49.5	74.0	-24.5	Peak	Horizontal
	4884.5	33.8	5.9	39.7	74.0	-34.3	Peak	Vertical
*	6193.5	33.6	8.2	41.8	74.0	-32.2	Peak	Vertical
	7528.0	32.9	11.8	44.7	74.0	-29.3	Peak	Vertical
*	10214.0	31.3	17.1	48.4	74.0	-25.6	Peak	Vertical

Note 1: “*” is not in restricted band.

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	4K OPTICAL VIDEO CAMERA	Temperature	23°C
Test Engineer	Flag Yang	Relative Humidity	53%
Test Site	AC1	Test Date	2020/06/28
Test Mode	802.11n-HT40	Test Channel	09
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
	5148.0	33.3	6.8	40.1	74.0	-33.9	Peak	Horizontal
*	6567.5	32.8	9.6	42.4	74.0	-31.6	Peak	Horizontal
	7596.0	32.9	11.8	44.7	74.0	-29.3	Peak	Horizontal
*	10273.5	31.1	17.3	48.4	74.0	-25.6	Peak	Horizontal
	4893.0	33.7	6.0	39.7	74.0	-34.3	Peak	Vertical
*	5896.0	33.6	7.7	41.3	74.0	-32.7	Peak	Vertical
	7715.0	33.6	11.5	45.1	74.0	-28.9	Peak	Vertical
*	10248.0	32.5	17.1	49.6	74.0	-24.4	Peak	Vertical

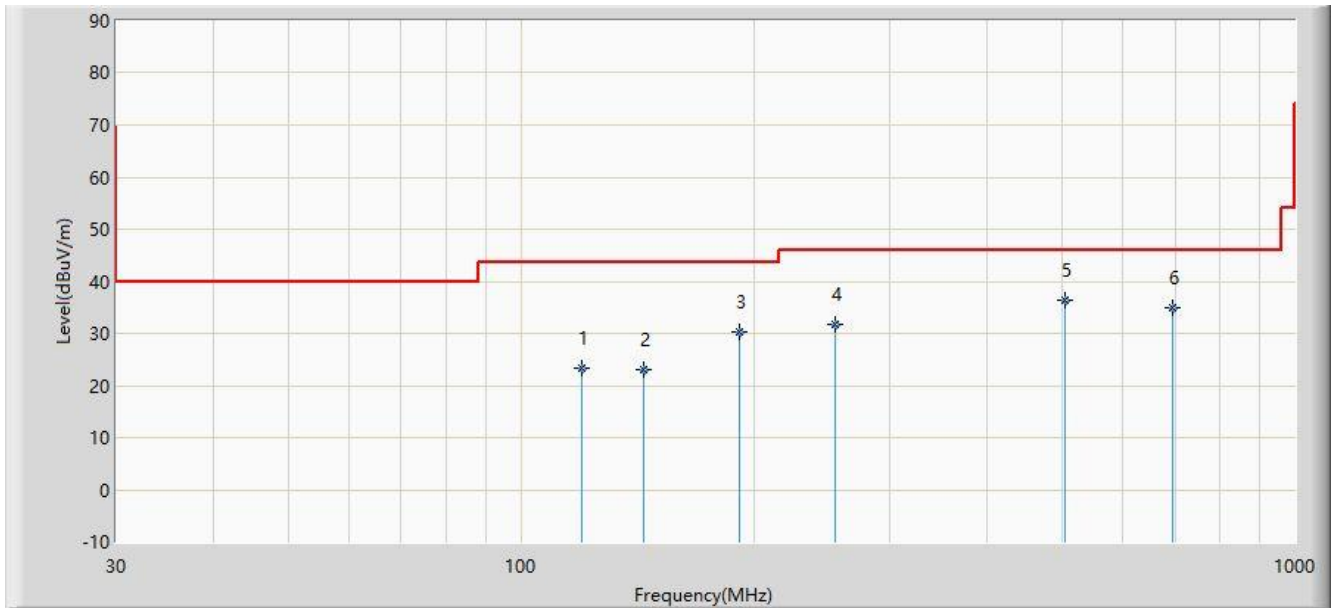
Note 1: “*” is not in restricted band.

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 - 19:46
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_VULB 9168 _30-2000MHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			119.725	23.284	11.058	-20.216	43.500	12.226	QP
2			143.975	23.152	8.697	-20.348	43.500	14.455	QP
3			191.990	30.404	17.635	-13.096	43.500	12.769	QP
4			255.040	31.863	17.882	-14.137	46.000	13.981	QP
5		*	503.845	36.474	16.248	-9.526	46.000	20.225	QP
6			695.905	35.027	11.566	-10.973	46.000	23.460	QP

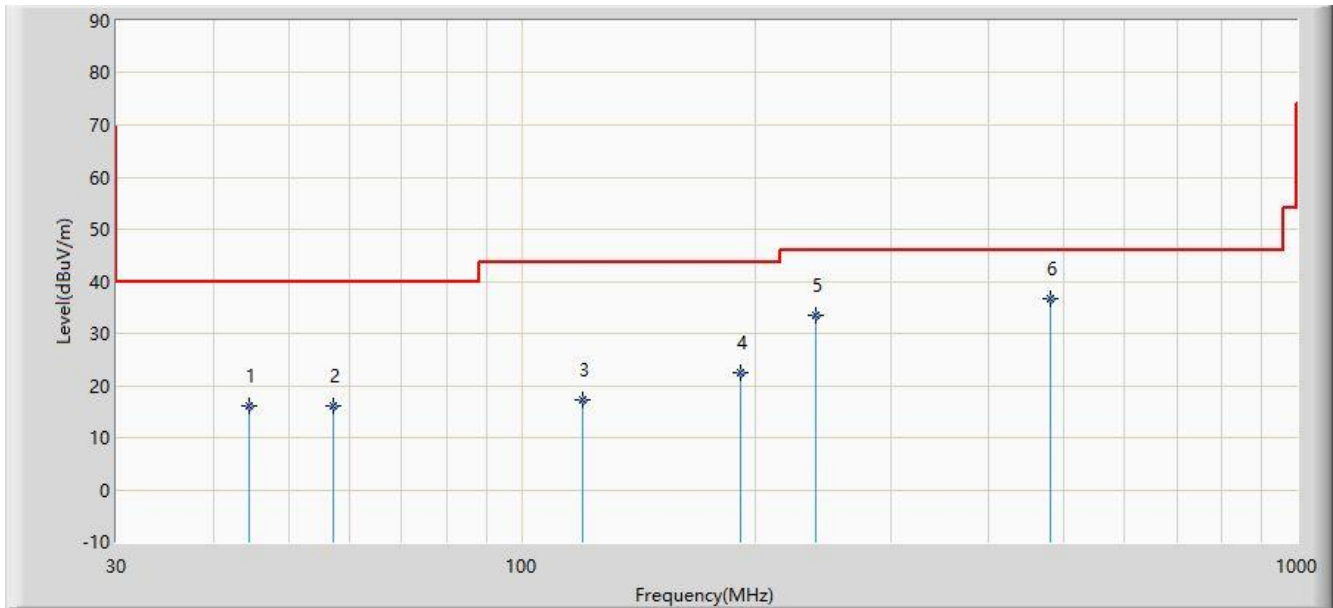
Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

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 25GHz) 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 - 19:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_VULB 9168 _30-2000MHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11b at Channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			44.550	15.989	0.947	-24.011	40.000	15.042	QP
2			57.160	16.079	1.344	-23.921	40.000	14.735	QP
3			119.725	17.280	5.054	-26.220	43.500	12.226	QP
4			191.990	22.510	9.741	-20.990	43.500	12.769	QP
5			240.005	33.379	19.806	-12.621	46.000	13.574	QP
6		*	480.080	36.575	16.816	-9.425	46.000	19.759	QP

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + 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 25GHz) 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.

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Limit

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	--	--	--

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

FCC Part 15.209 Limit		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
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

7.7.2.Test Procedure Used

ANSI C63.10-2013 Section 6.3 (General Requirements)

ANSI C63.10-2013 Section 6.6 (Standard test method above 1GHz)

7.7.3.Test Setting

Peak Field Strength Measurements

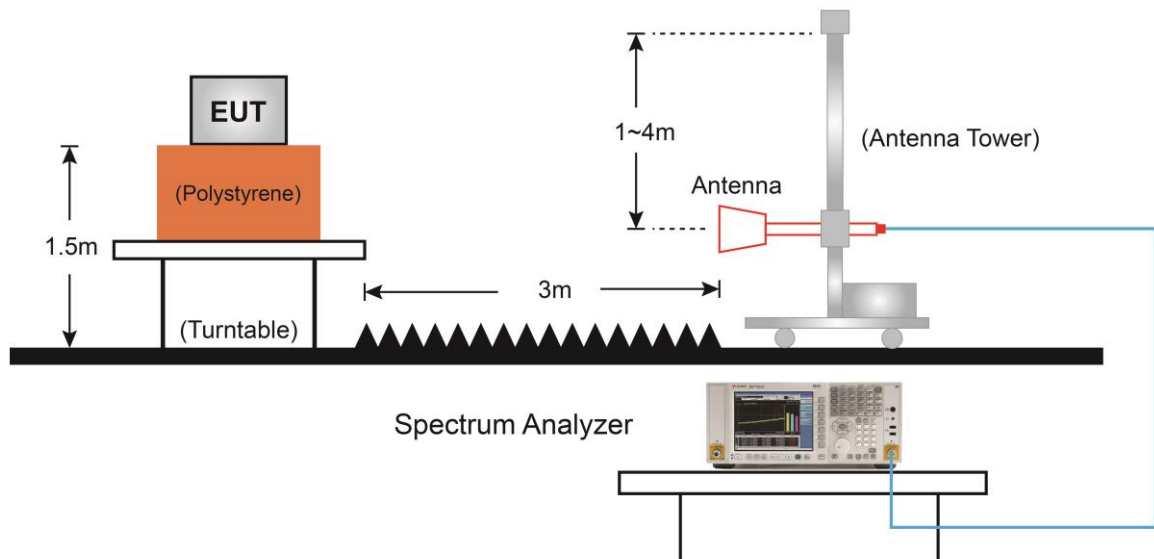
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz

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 $\geq 98\%$, set VBW = 10 Hz.

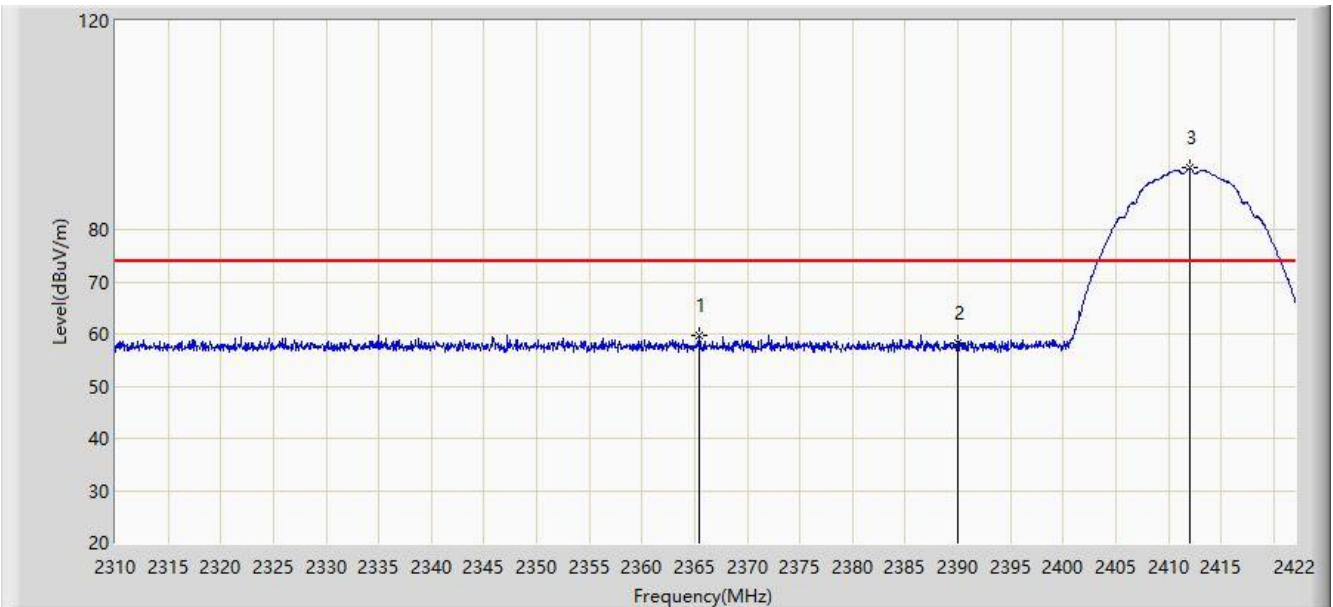
If the EUT duty cycle is $< 98\%$, set $\text{VBW} \geq 1/T$. T is the minimum transmission duration.

4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

7.7.4.Test Setup

7.7.5.Test Result

Site: AC1	Time: 2020/07/07 - 15:52
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2412MHz	

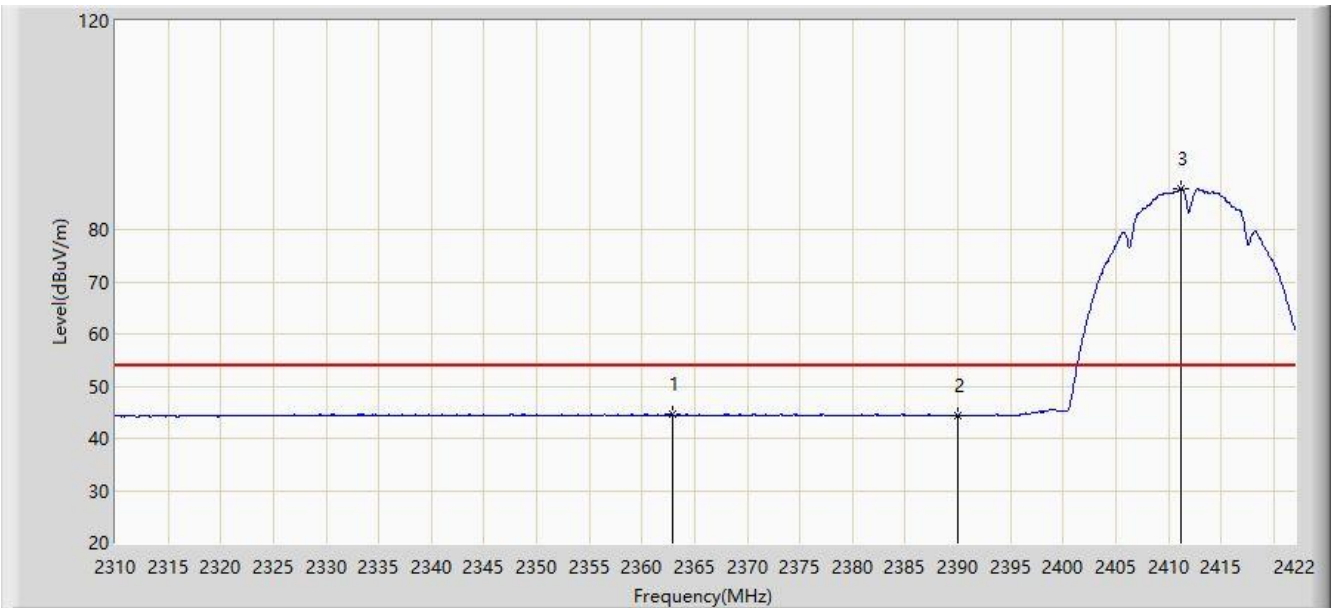


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2365.496	59.690	27.583	-14.310	74.000	32.107	PK
2			2390.000	58.387	26.315	-15.613	74.000	32.072	PK
3		*	2412.032	91.830	59.746	N/A	N/A	32.084	PK

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

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

Site: AC1	Time: 2020/07/07 - 16:10
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2412MHz	

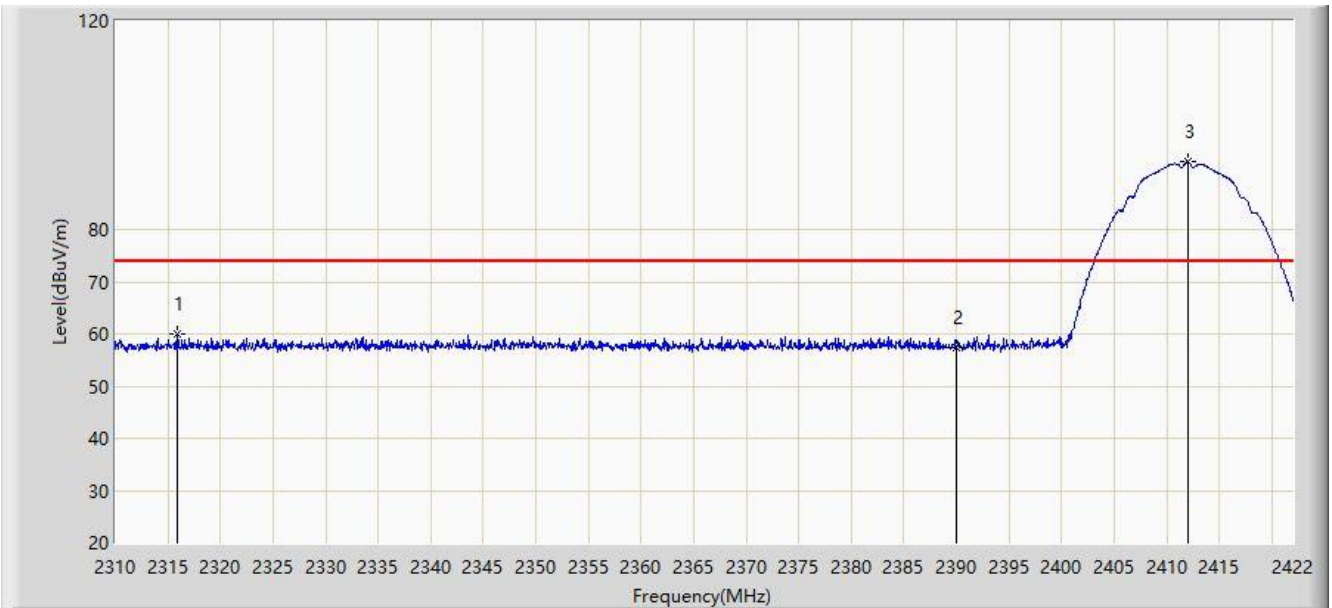


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2362.920	44.547	12.433	-9.453	54.000	32.114	AV
2			2390.000	44.440	12.368	-9.560	54.000	32.072	AV
3		*	2411.192	87.921	55.840	N/A	N/A	32.082	AV

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

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

Site: AC1	Time: 2020/07/07 - 16:11
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2412MHz	

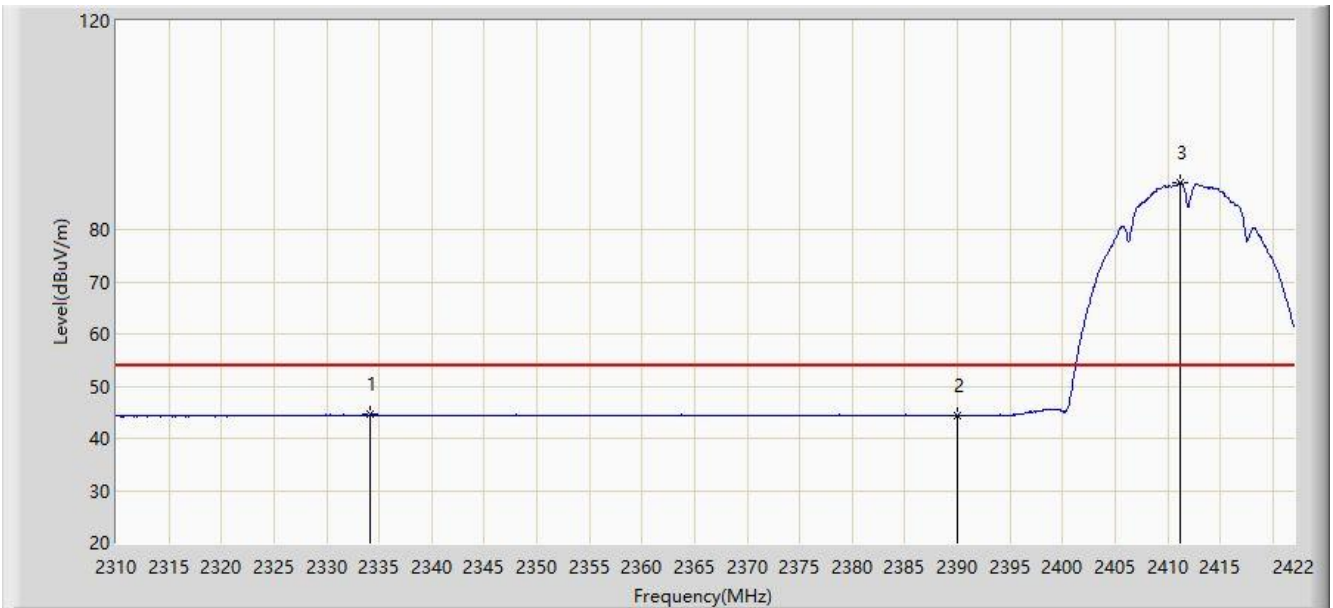


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2315.880	59.888	27.693	-14.112	74.000	32.195	PK
2			2390.000	57.514	25.442	-16.486	74.000	32.072	PK
3		*	2411.976	93.061	60.978	N/A	N/A	32.084	PK

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

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

Site: AC1	Time: 2020/07/07 - 16:14
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2412MHz	

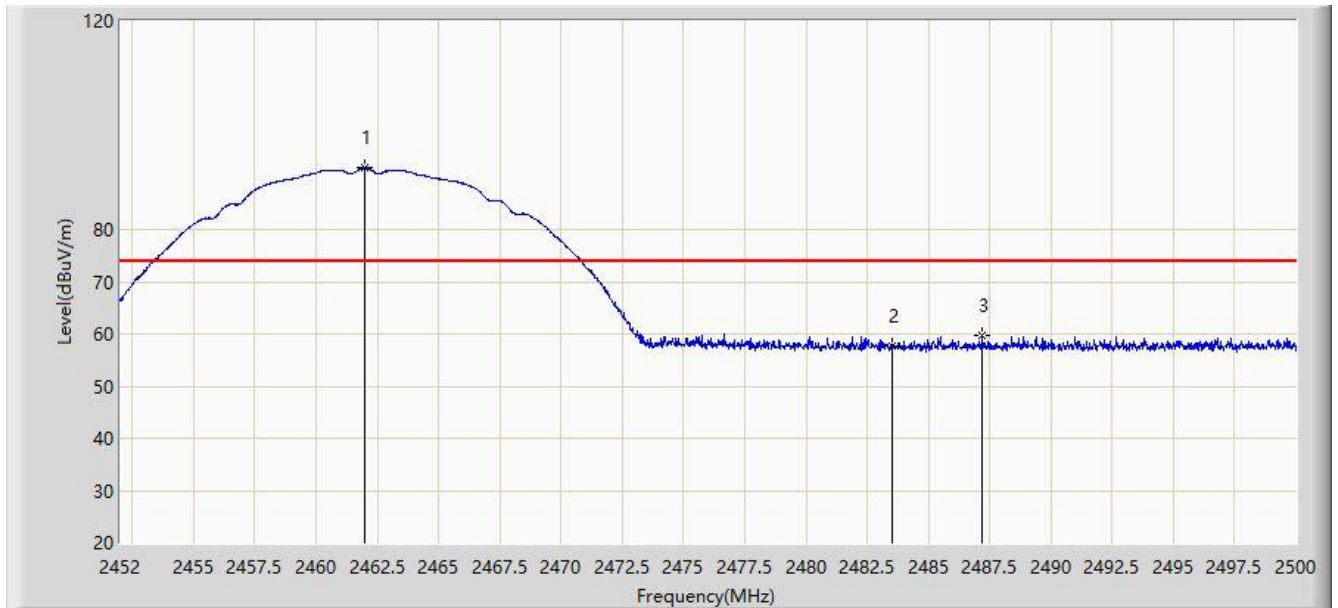


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2334.192	44.548	12.389	-9.452	54.000	32.159	AV
2			2390.000	44.370	12.298	-9.630	54.000	32.072	AV
3		*	2411.192	89.120	57.039	N/A	N/A	32.082	AV

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

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

Site: AC1	Time: 2020/07/07 - 16:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2462MHz	

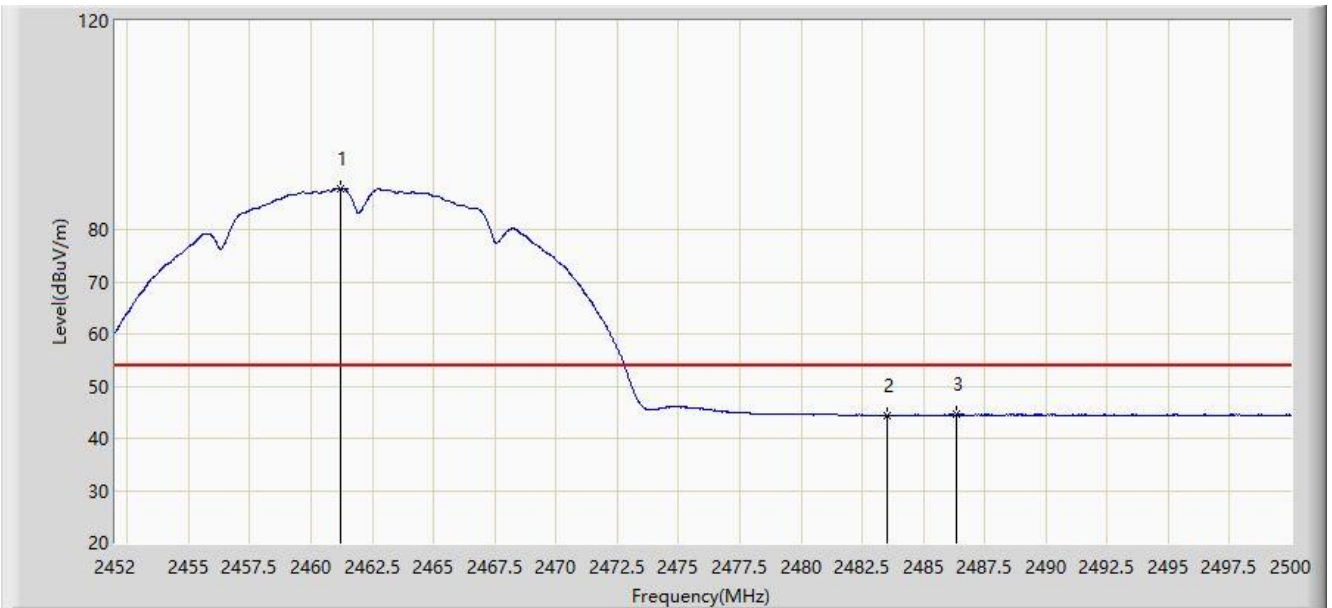


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.984	91.886	59.805	N/A	N/A	32.081	PK
2			2483.500	57.718	25.681	-16.282	74.000	32.037	PK
3			2487.208	59.660	27.630	-14.340	74.000	32.030	PK

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

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

Site: AC1	Time: 2020/07/07 - 16:18
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2462MHz	

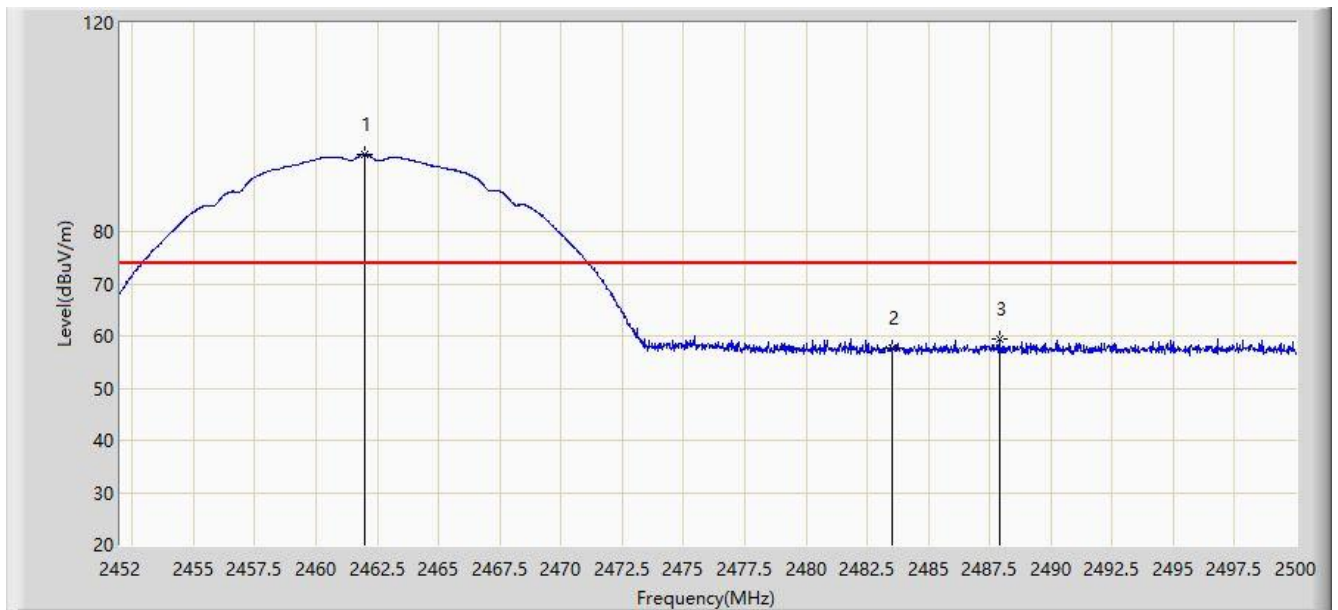


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.216	87.964	55.884	N/A	N/A	32.081	AV
2			2483.500	44.404	12.367	-9.596	54.000	32.037	AV
3			2486.368	44.562	12.530	-9.438	54.000	32.032	AV

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

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

Site: AC1	Time: 2020/07/07 - 16:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.008	94.779	62.698	N/A	N/A	32.081	PK
2			2483.500	57.542	25.505	-16.458	74.000	32.037	PK
3			2487.904	59.439	27.410	-14.561	74.000	32.028	PK

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

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

Site: AC1	Time: 2020/07/07 - 16:21
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2462MHz	

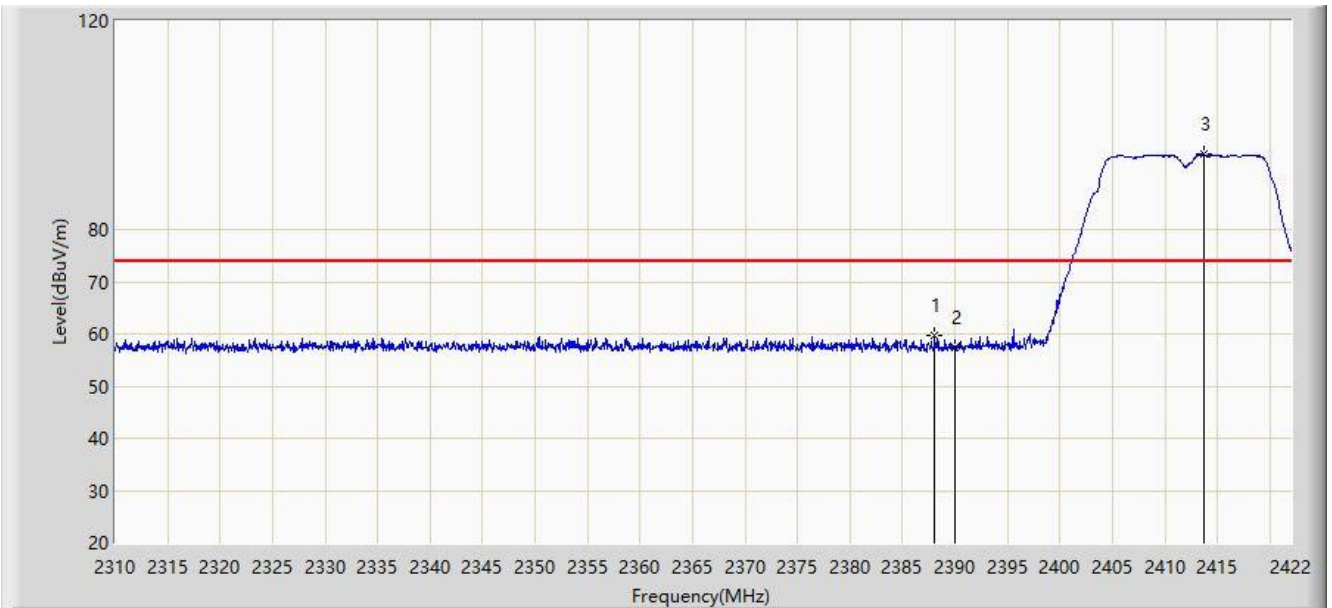


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.216	90.834	58.754	N/A	N/A	32.081	AV
2			2483.500	44.073	12.036	-9.927	54.000	32.037	AV
3			2487.040	44.268	12.238	-9.732	54.000	32.031	AV

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

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

Site: AC1	Time: 2020/07/07 - 16:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11g at channel 2412MHz	

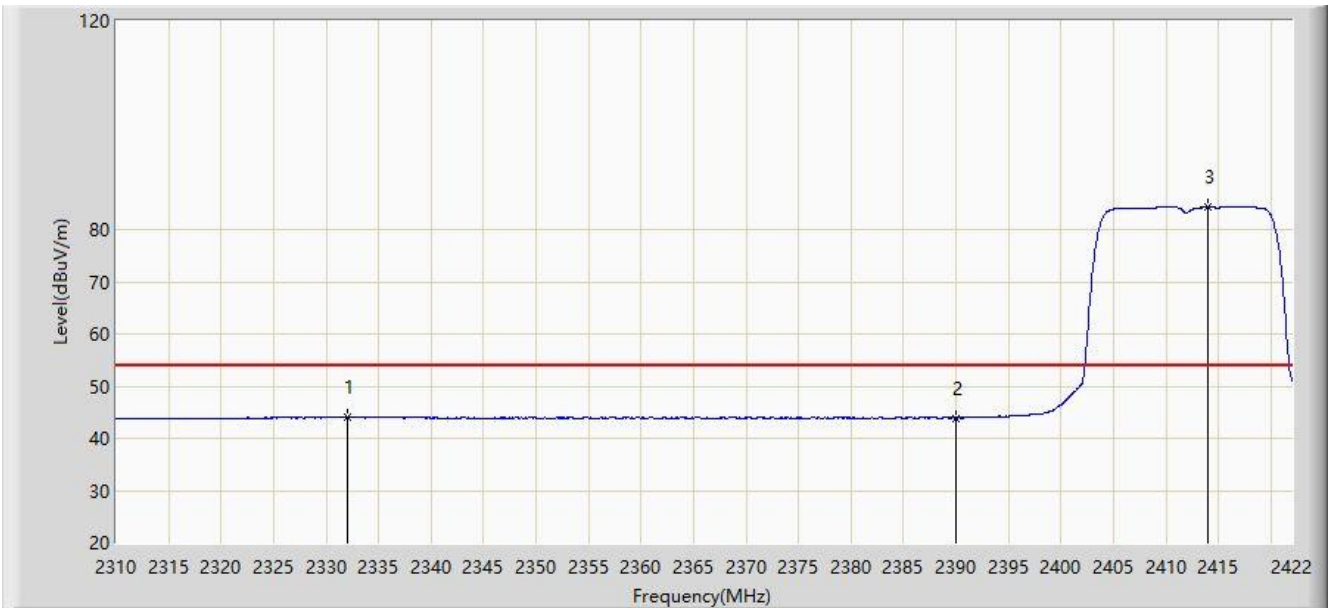


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.064	59.704	27.631	-14.296	74.000	32.072	PK
2			2390.000	57.517	25.445	-16.483	74.000	32.072	PK
3		*	2413.768	94.437	62.349	N/A	N/A	32.089	PK

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

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

Site: AC1	Time: 2020/07/07 - 16:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11g at channel 2412MHz	

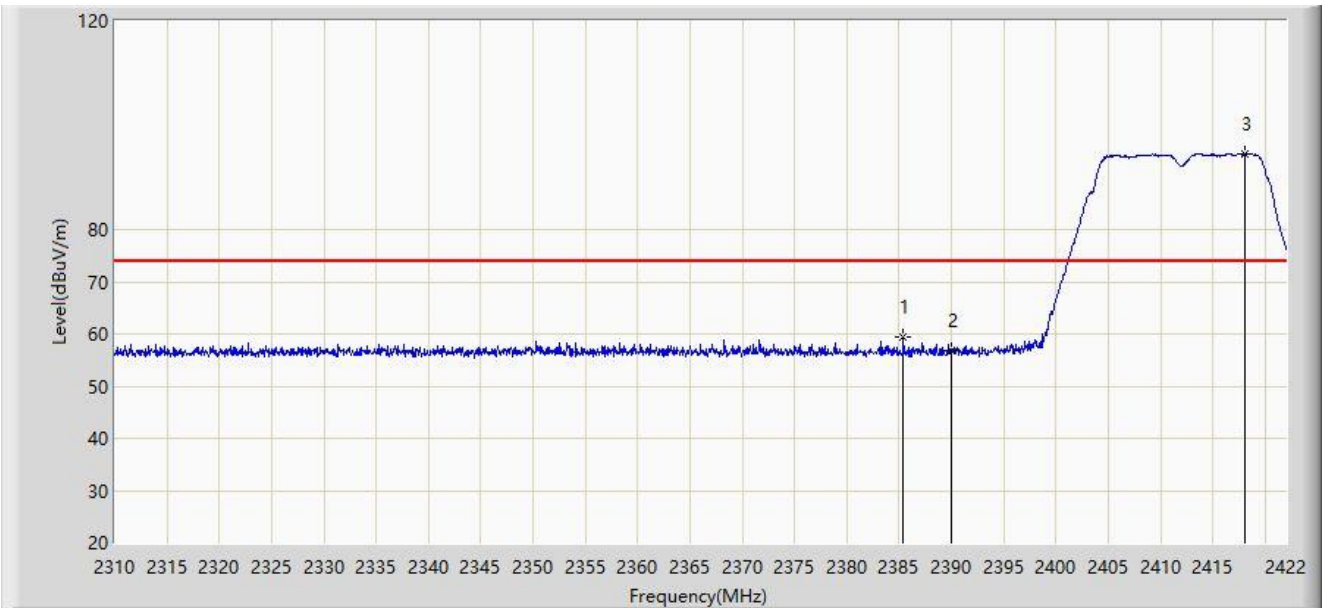


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2332.064	44.172	12.008	-9.828	54.000	32.164	AV
2			2390.000	43.909	11.837	-10.091	54.000	32.072	AV
3		*	2413.992	84.468	52.379	N/A	N/A	32.088	AV

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

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

Site: AC1	Time: 2020/07/07 - 16:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11g at channel 2412MHz	

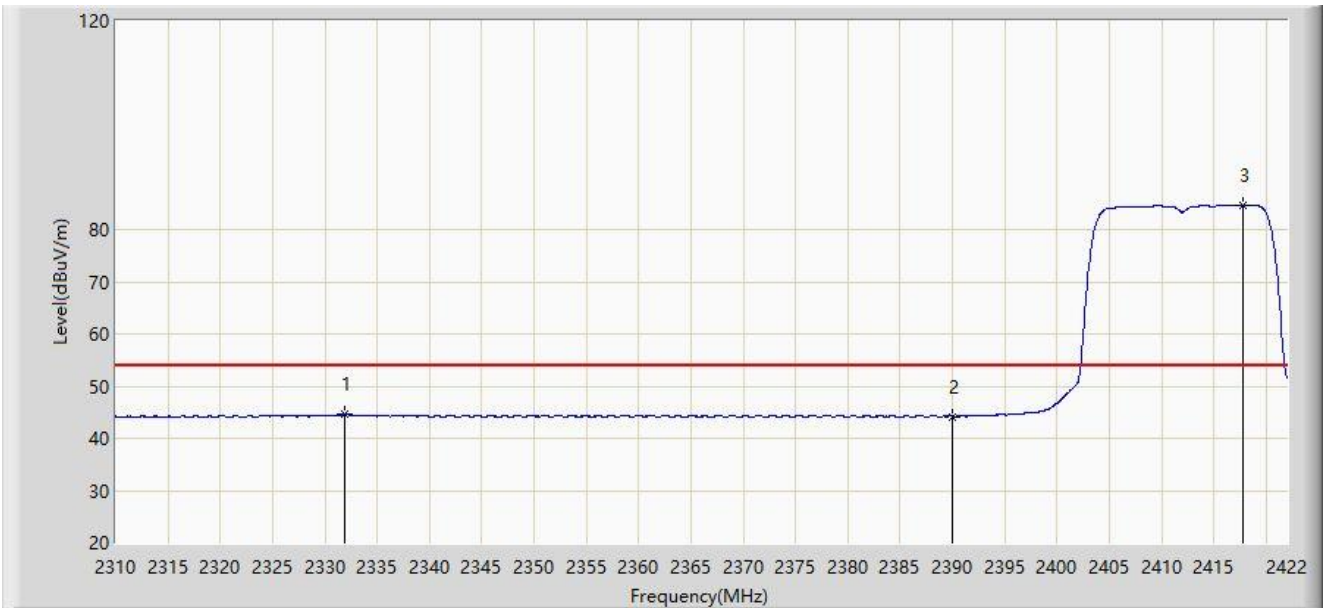


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.432	59.320	27.247	-14.680	74.000	32.073	PK
2			2390.000	56.894	24.822	-17.106	74.000	32.072	PK
3		*	2418.136	94.605	62.505	N/A	N/A	32.099	PK

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

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

Site: AC1	Time: 2020/07/07 - 16:29
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11g at channel 2412MHz	

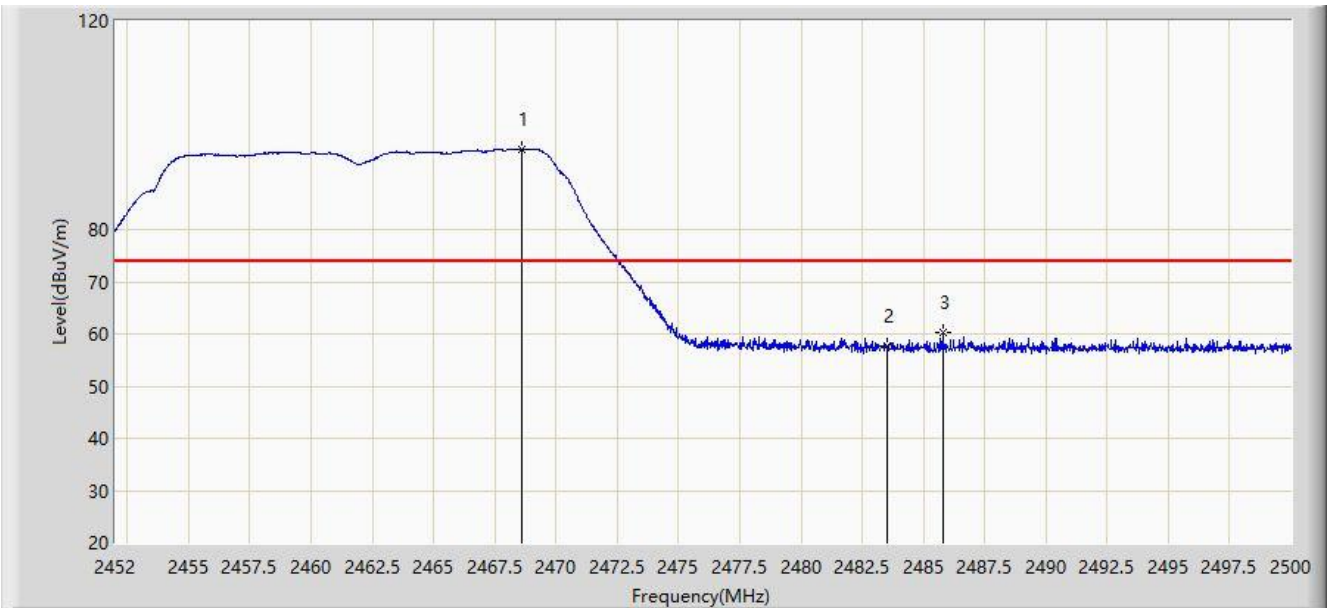


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2331.896	44.581	12.416	-9.419	54.000	32.165	AV
2			2390.000	44.182	12.110	-9.818	54.000	32.072	AV
3		*	2417.744	84.710	52.611	N/A	N/A	32.099	AV

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

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

Site: AC1	Time: 2020/07/07 - 16:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11g at channel 2462MHz	

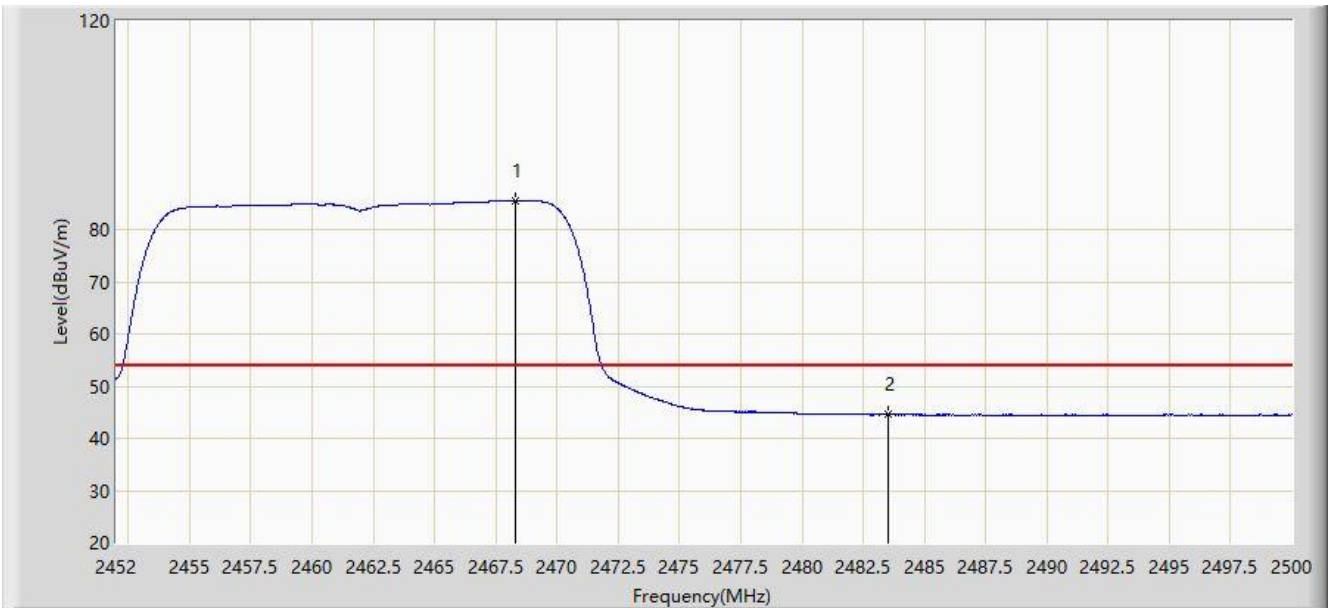


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2468.580	95.465	63.398	N/A	N/A	32.067	PK
2			2483.500	57.763	25.726	-16.237	74.000	32.037	PK
3			2485.792	60.241	28.208	-13.759	74.000	32.032	PK

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

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

Site: AC1	Time: 2020/07/07 - 16:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11g at channel 2462MHz	

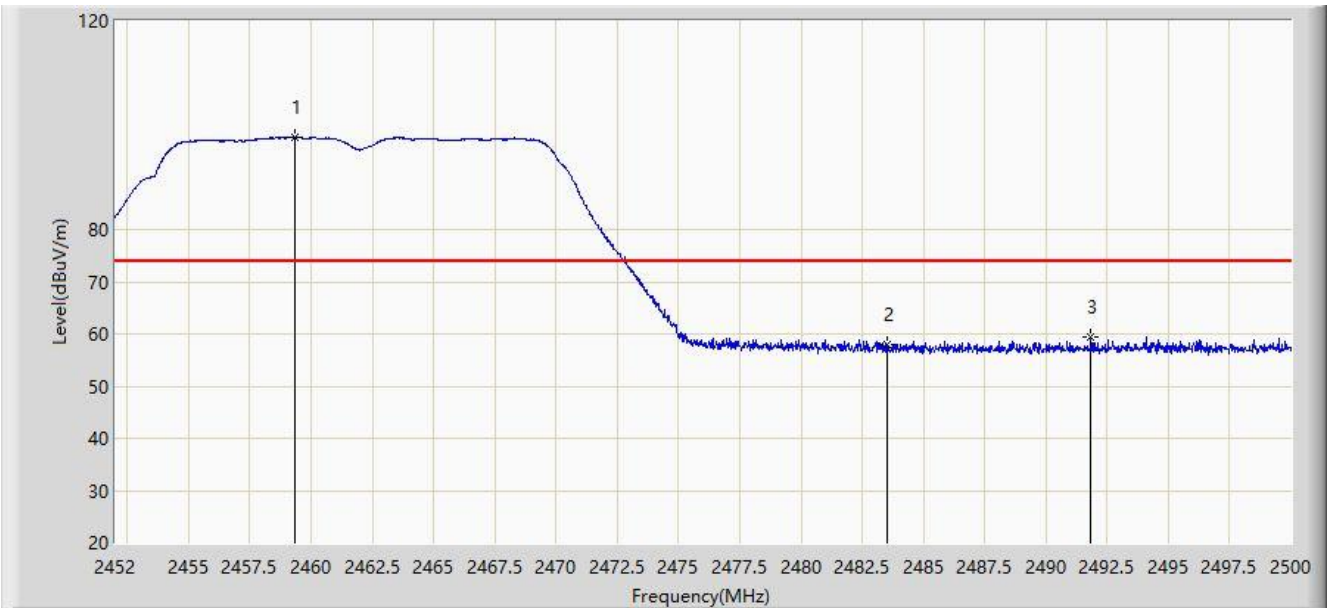


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2468.296	85.497	53.429	N/A	N/A	32.068	AV
2			2483.500	44.579	12.542	-9.421	54.000	32.037	AV

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

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

Site: AC1	Time: 2020/07/07 - 16:32
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11g at channel 2462MHz	

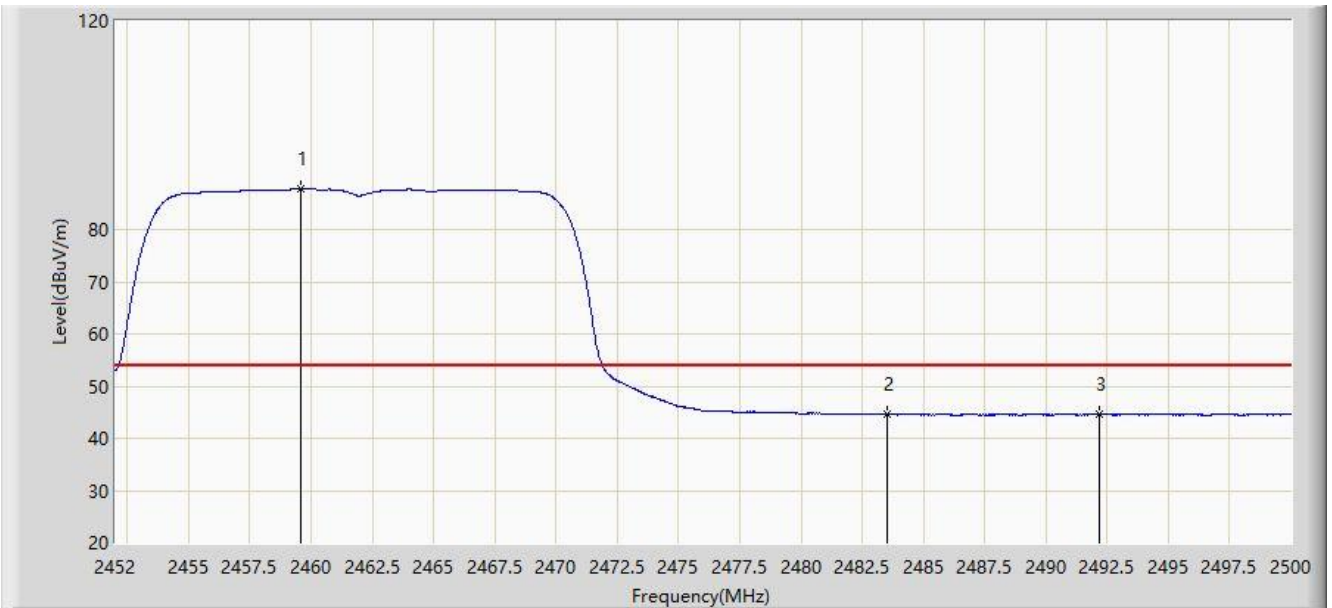


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2459.344	97.700	65.620	N/A	N/A	32.079	PK
2			2483.500	58.016	25.979	-15.984	74.000	32.037	PK
3			2491.840	59.550	27.529	-14.450	74.000	32.021	PK

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

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

Site: AC1	Time: 2020/07/07 - 16:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11g at channel 2462MHz	

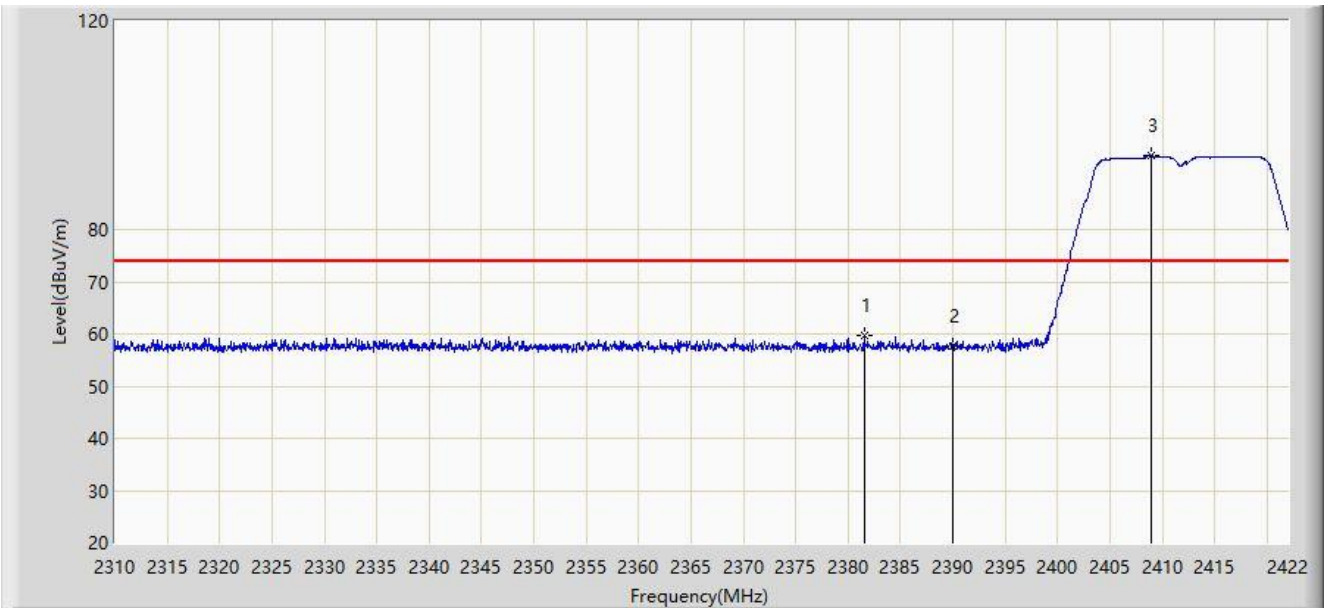


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2459.608	87.883	55.803	N/A	N/A	32.080	AV
2			2483.500	44.578	12.541	-9.422	54.000	32.037	AV
3			2492.200	44.581	12.560	-9.419	54.000	32.020	AV

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

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

Site: AC1	Time: 2020/07/07 - 16:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

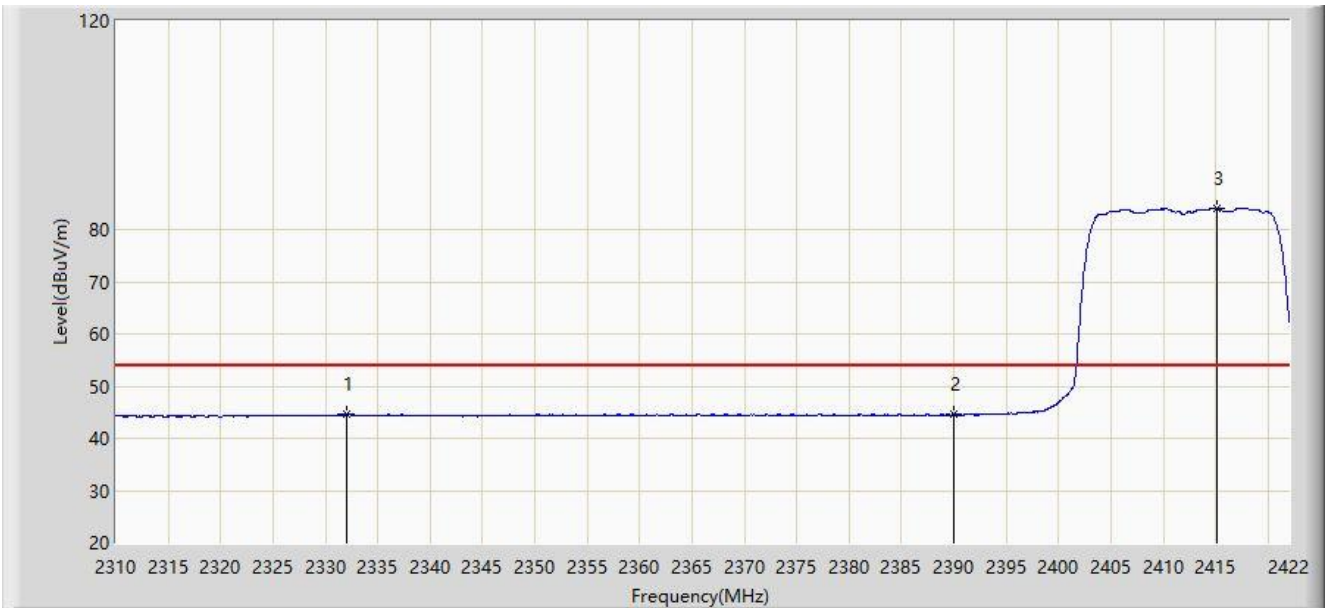


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2381.512	59.768	27.693	-14.232	74.000	32.075	PK
2			2390.000	57.703	25.631	-16.297	74.000	32.072	PK
3		*	2408.940	94.274	62.194	N/A	N/A	32.079	PK

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

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

Site: AC1	Time: 2020/07/07 - 16:37
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

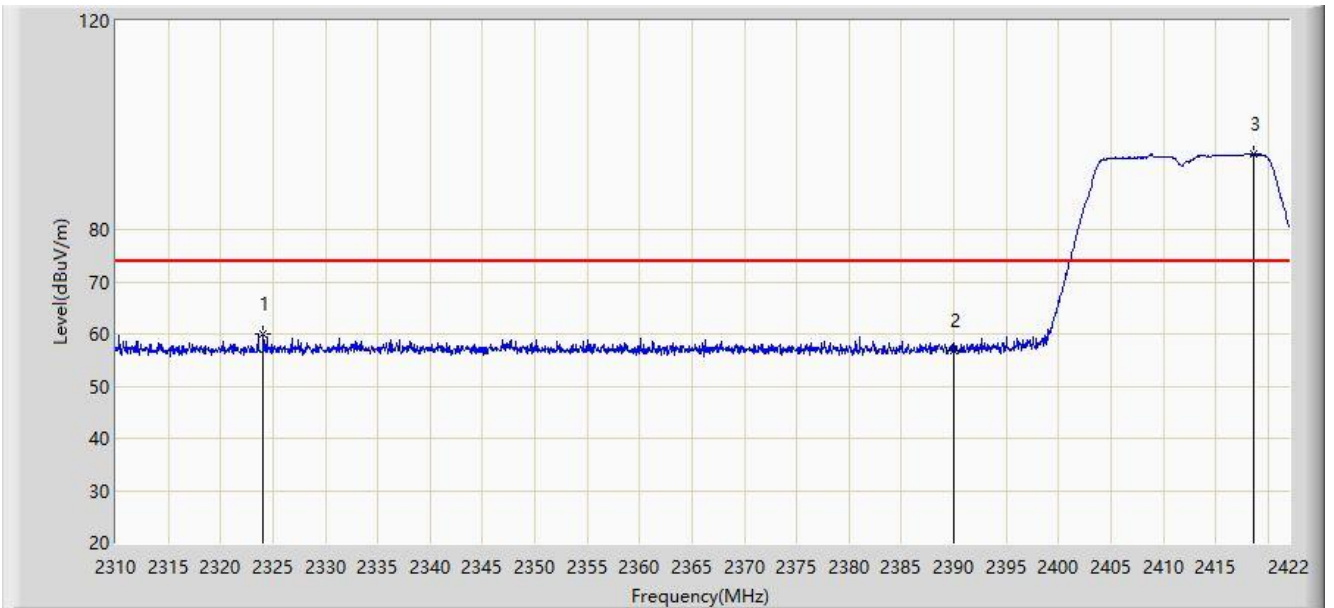


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2332.064	44.635	12.471	-9.365	54.000	32.164	AV
2			2390.000	44.511	12.439	-9.489	54.000	32.072	AV
3		*	2415.056	84.118	52.026	N/A	N/A	32.092	AV

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

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

Site: AC1	Time: 2020/07/07 - 16:37
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

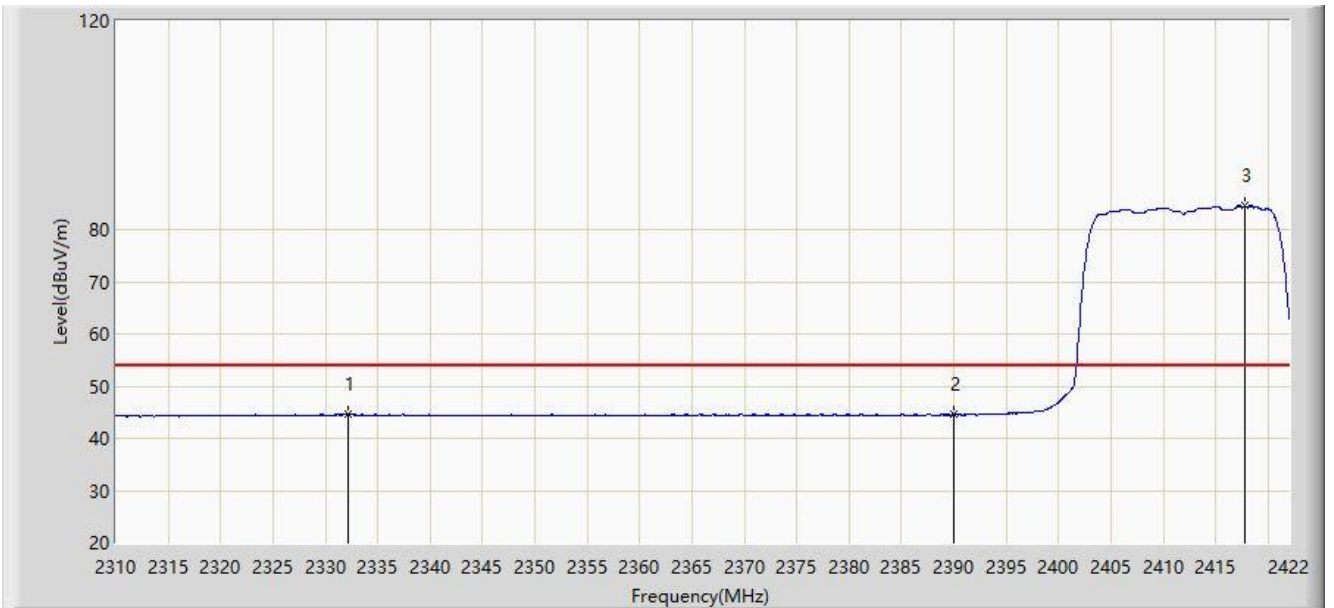


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2324.056	60.042	27.859	-13.958	74.000	32.183	PK
2			2390.000	56.938	24.866	-17.062	74.000	32.072	PK
3		*	2418.696	94.476	62.375	N/A	N/A	32.101	PK

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

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

Site: AC1	Time: 2020/07/07 - 16:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

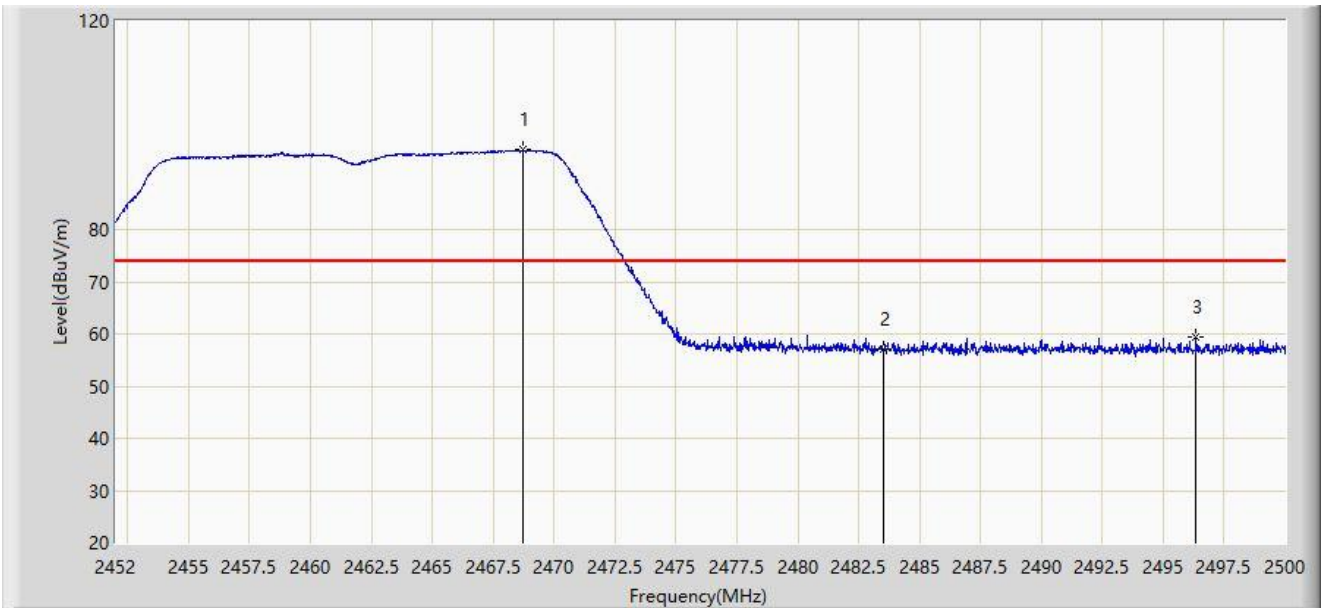


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2332.232	44.748	12.584	-9.252	54.000	32.164	AV
2			2390.000	44.522	12.450	-9.478	54.000	32.072	AV
3		*	2417.744	84.495	52.396	N/A	N/A	32.099	AV

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

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

Site: AC1	Time: 2020/07/07 - 16:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

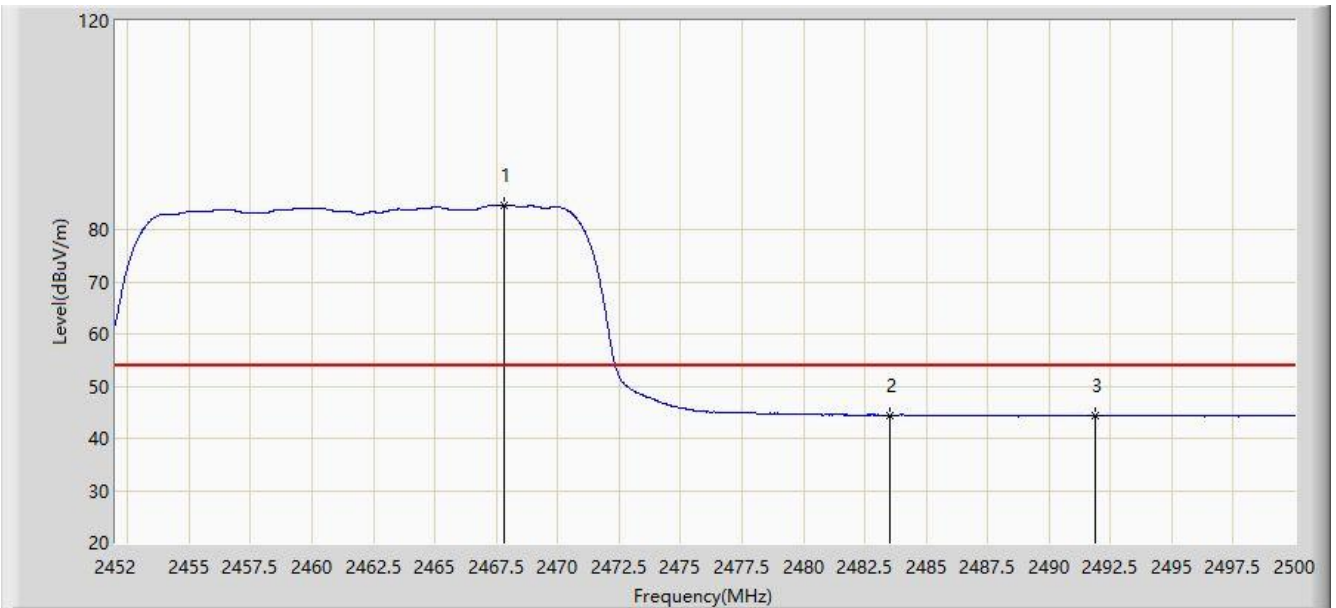


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2468.704	95.245	63.178	N/A	N/A	32.067	PK
2			2483.500	57.034	24.997	-16.966	74.000	32.037	PK
3			2496.352	59.306	27.292	-14.694	74.000	32.015	PK

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

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

Site: AC1	Time: 2020/07/07 - 16:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

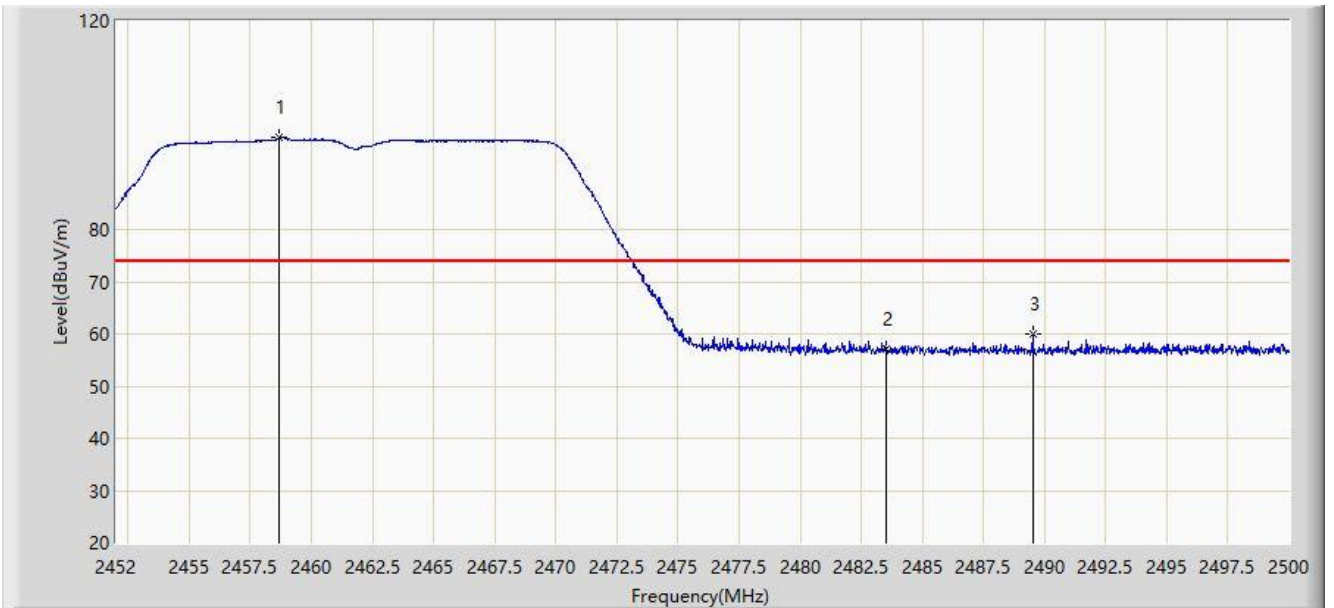


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2467.792	84.670	52.601	N/A	N/A	32.069	AV
2			2483.500	44.366	12.329	-9.634	54.000	32.037	AV
3			2491.888	44.421	12.400	-9.579	54.000	32.021	AV

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

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

Site: AC1	Time: 2020/07/07 - 16:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

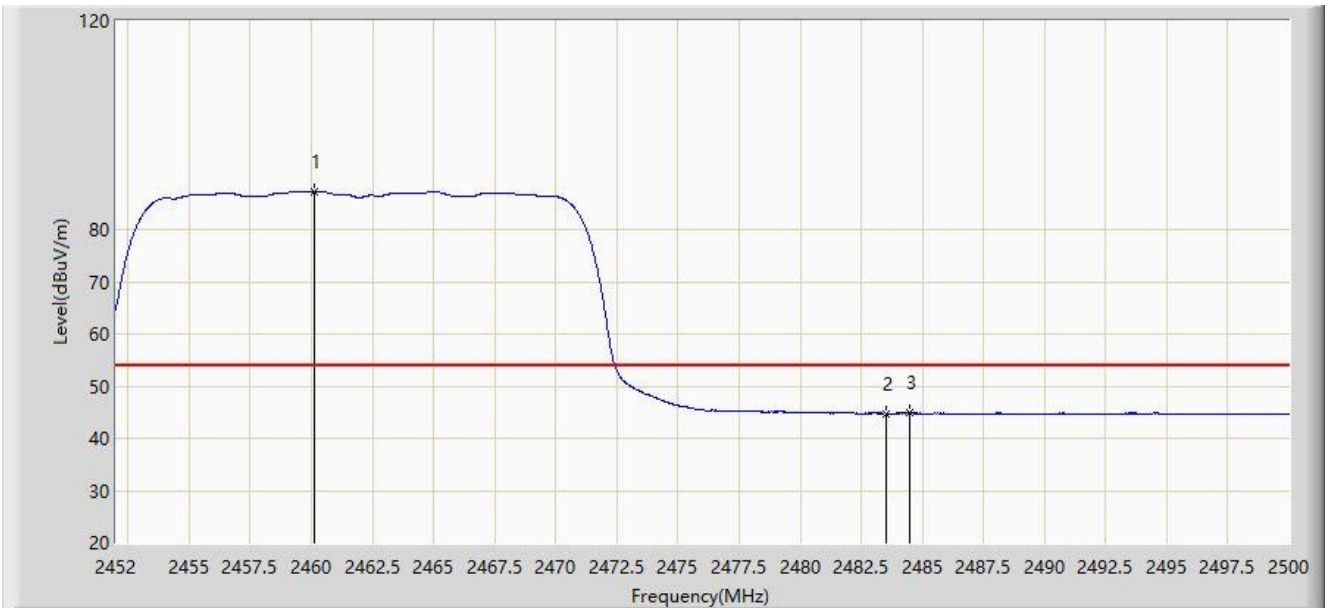


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2458.696	97.699	65.620	N/A	N/A	32.080	PK
2			2483.500	57.245	25.208	-16.755	74.000	32.037	PK
3			2489.512	59.861	27.835	-14.139	74.000	32.025	PK

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

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

Site: AC1	Time: 2020/07/07 - 16:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

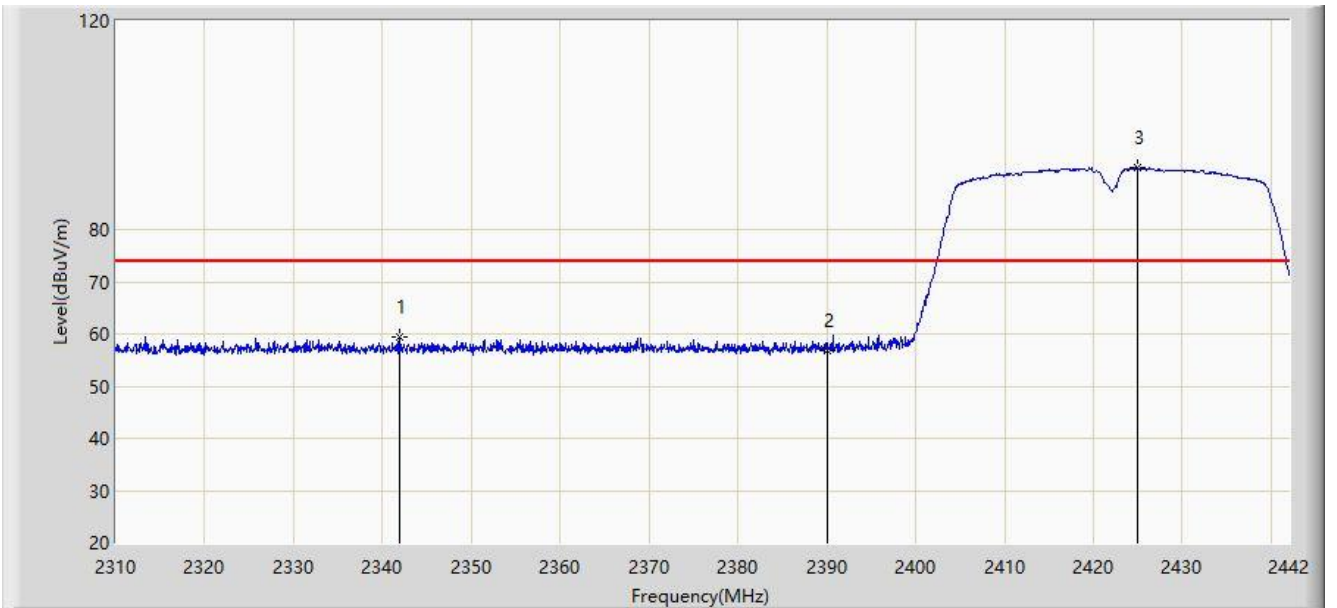


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.136	87.276	55.196	N/A	N/A	32.080	AV
2			2483.500	44.776	12.739	-9.224	54.000	32.037	AV
3			2484.496	44.852	12.817	-9.148	54.000	32.035	AV

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

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

Site: AC1	Time: 2020/07/07 - 16:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

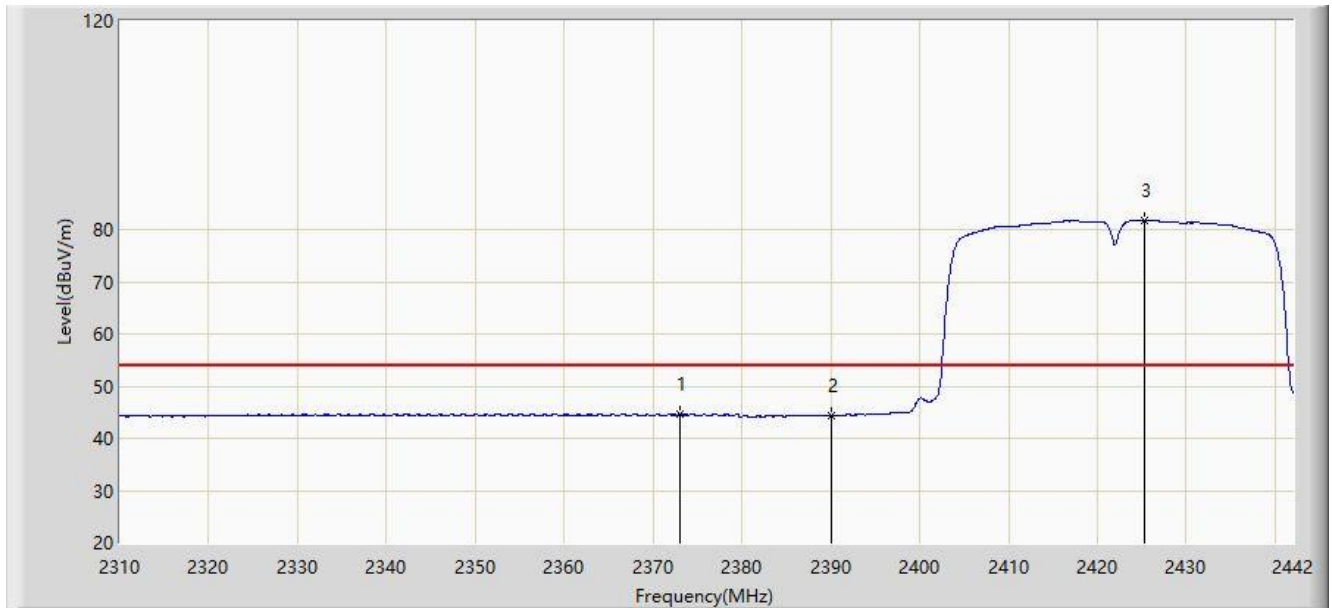


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2341.878	59.323	27.184	-14.677	74.000	32.139	PK
2			2390.000	56.884	24.812	-17.116	74.000	32.072	PK
3		*	2425.038	91.790	59.672	N/A	N/A	32.118	PK

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

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

Site: AC1	Time: 2020/07/07 - 16:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

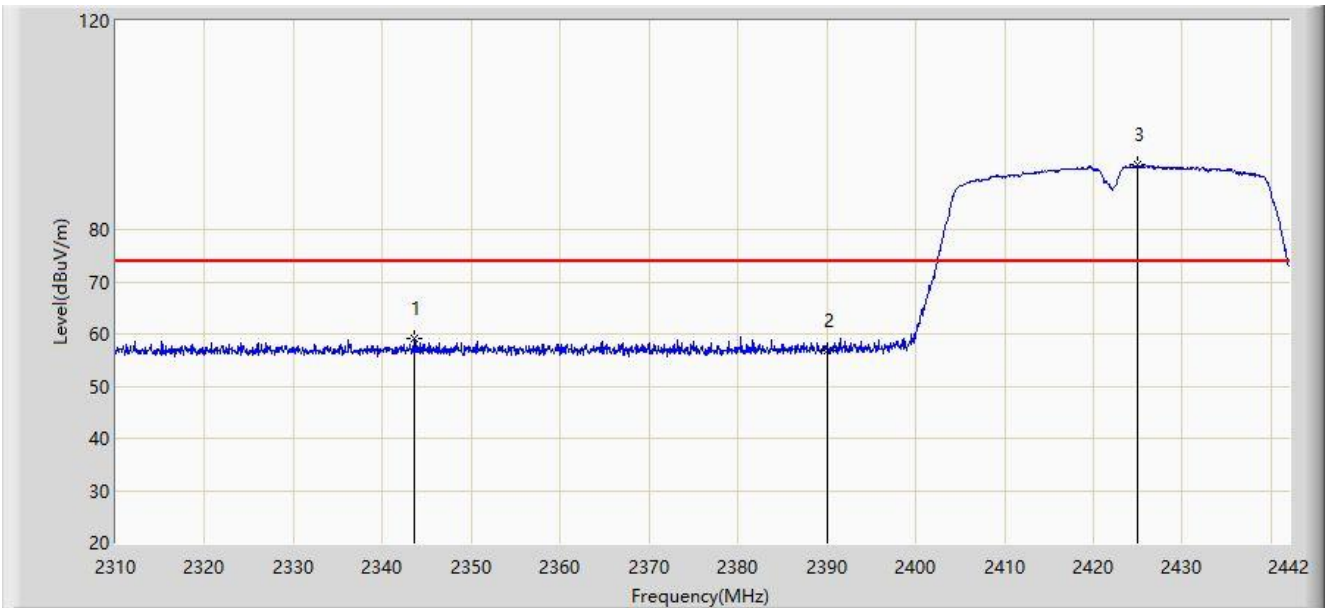


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2373.030	44.606	12.519	-9.394	54.000	32.087	AV
2			2390.000	44.276	12.204	-9.724	54.000	32.072	AV
3		*	2425.236	81.756	49.638	N/A	N/A	32.118	AV

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

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

Site: AC1	Time: 2020/07/07 - 16:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

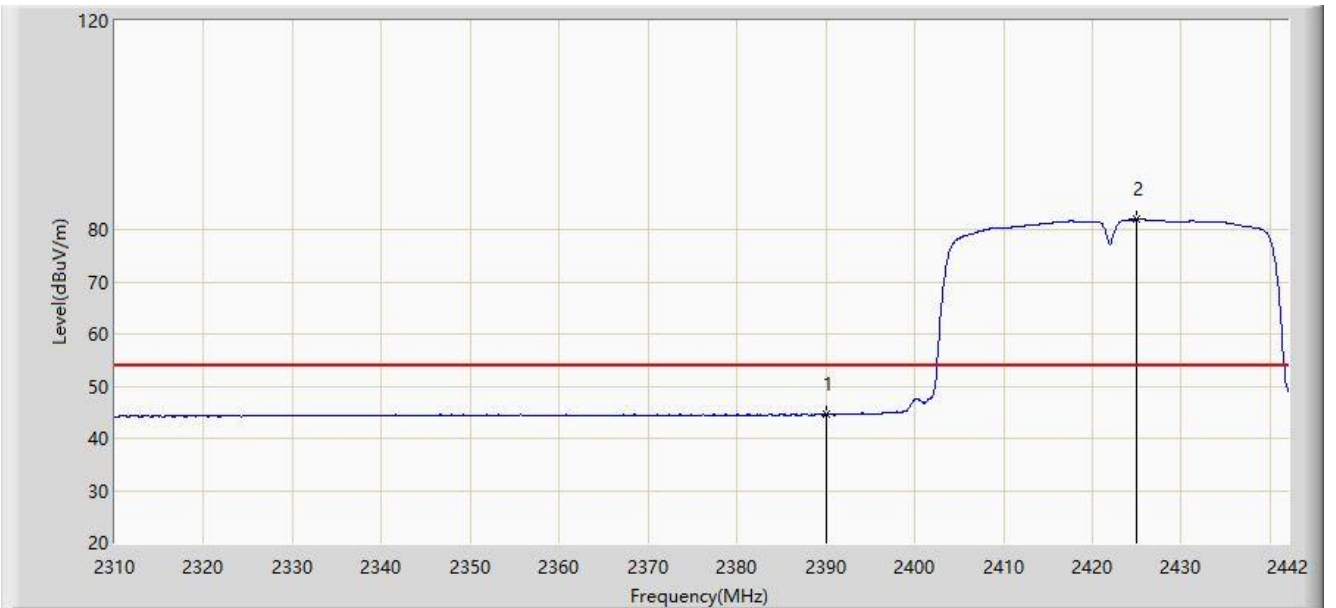


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2343.528	59.044	26.908	-14.956	74.000	32.135	PK
2			2390.000	56.924	24.852	-17.076	74.000	32.072	PK
3		*	2424.972	92.326	60.208	N/A	N/A	32.118	PK

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

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

Site: AC1	Time: 2020/07/07 - 16:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

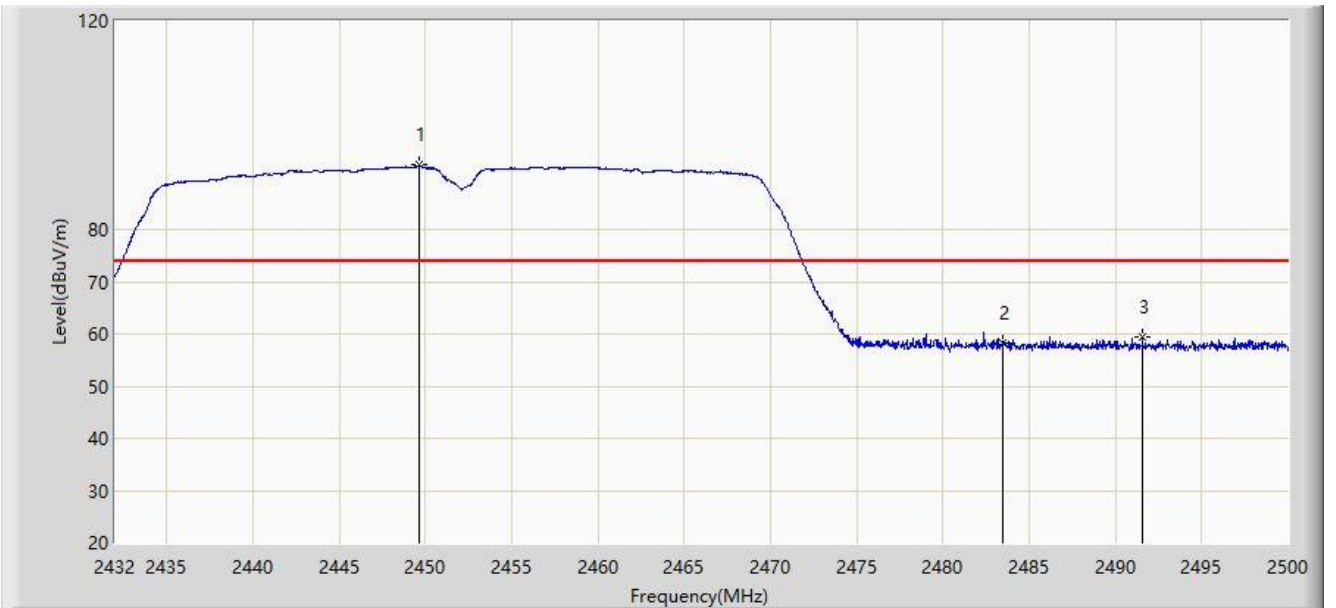


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	44.617	12.545	-9.383	54.000	32.072	AV
2		*	2424.906	81.948	49.831	N/A	N/A	32.118	AV

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

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

Site: AC1	Time: 2020/07/07 - 16:52
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	

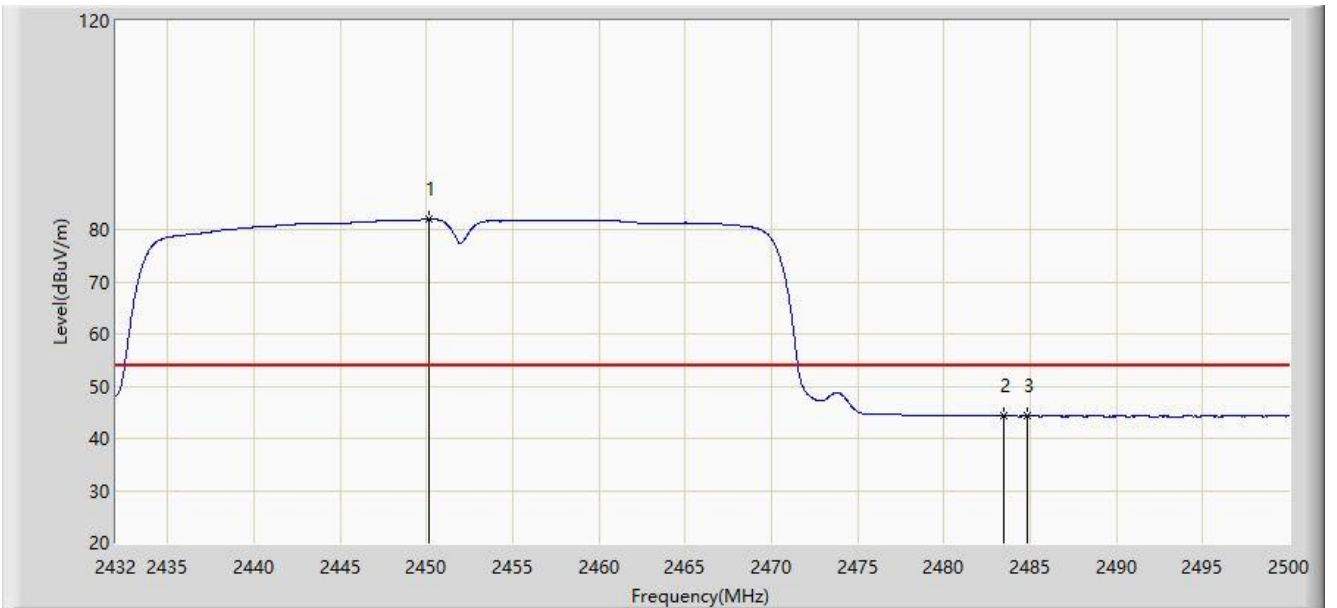


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2449.646	92.480	60.405	N/A	N/A	32.076	PK
2			2483.500	58.282	26.245	-15.718	74.000	32.037	PK
3			2491.568	59.419	27.397	-14.581	74.000	32.021	PK

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

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

Site: AC1	Time: 2020/07/07 - 16:55
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	

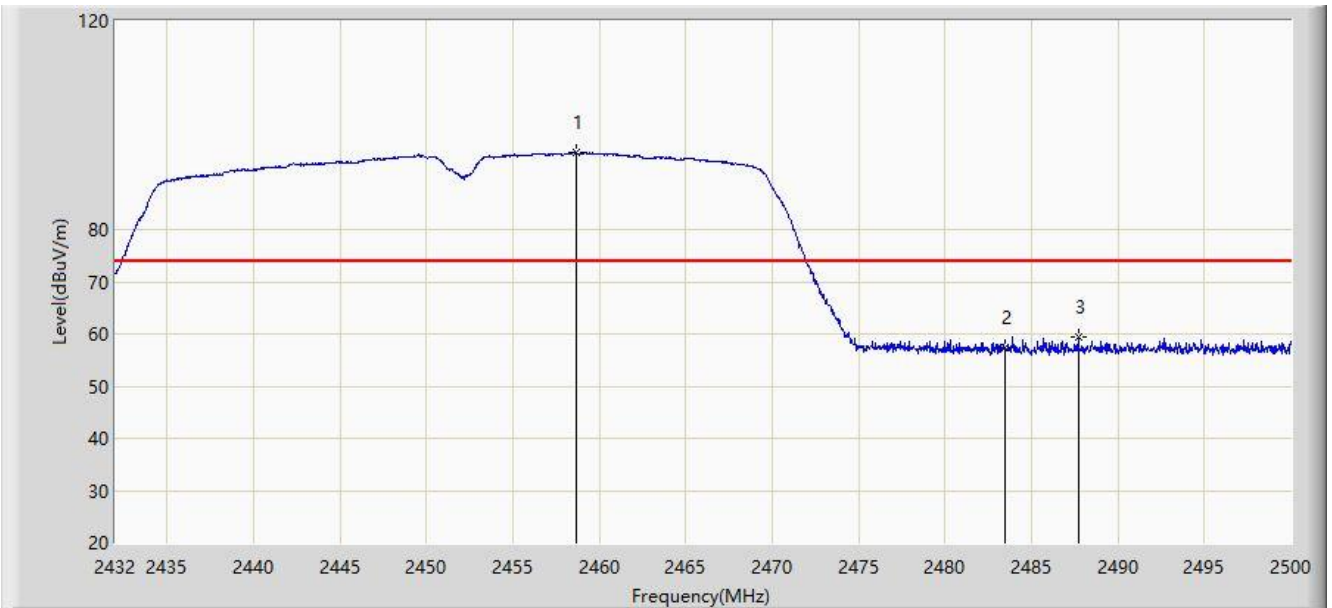


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2450.190	82.028	49.952	N/A	N/A	32.076	AV
2			2483.500	44.292	12.255	-9.708	54.000	32.037	AV
3			2484.836	44.323	12.289	-9.677	54.000	32.035	AV

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

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

Site: AC1	Time: 2020/07/07 - 16:56
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	

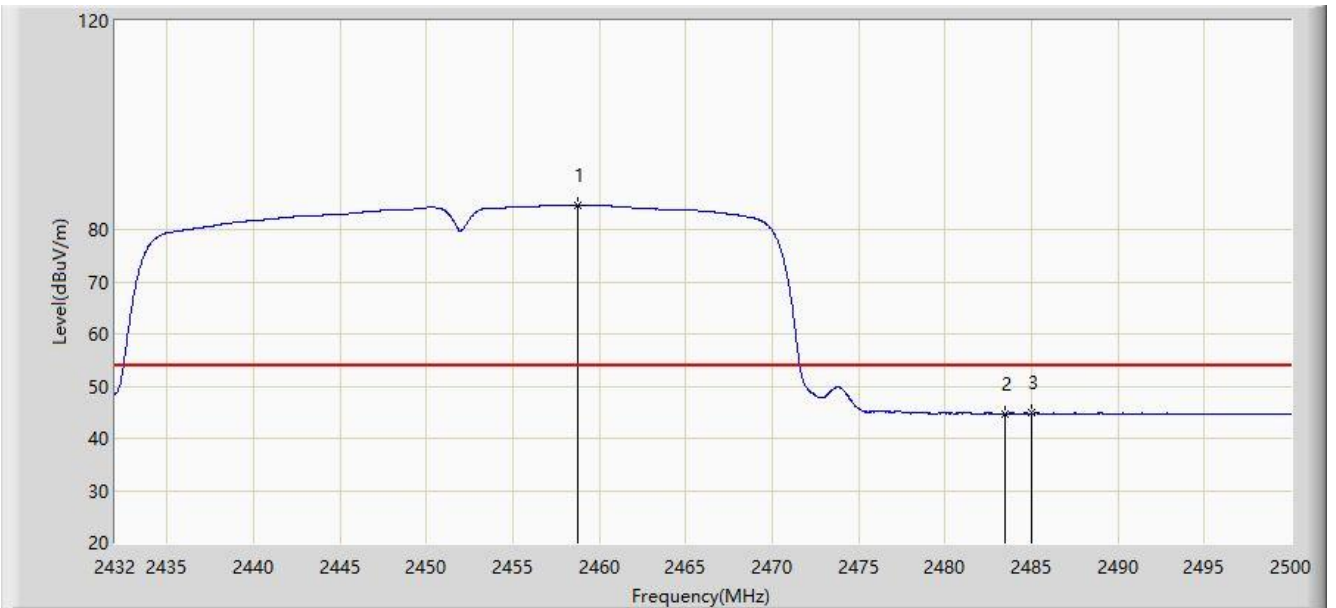


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2458.690	94.722	62.643	N/A	N/A	32.080	PK
2			2483.500	57.254	25.217	-16.746	74.000	32.037	PK
3			2487.692	59.558	27.529	-14.442	74.000	32.029	PK

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

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

Site: AC1	Time: 2020/07/07 - 16:57
Limit: FCC_Part15.209_RE(3m)	Engineer: Flag Yang
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 4K OPTICAL VIDEO CAMERA	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2458.724	84.676	52.597	N/A	N/A	32.080	AV
2			2483.500	44.724	12.687	-9.276	54.000	32.037	AV
3			2485.006	44.814	12.780	-9.186	54.000	32.035	AV

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

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

7.8. AC Conducted Emissions Measurement

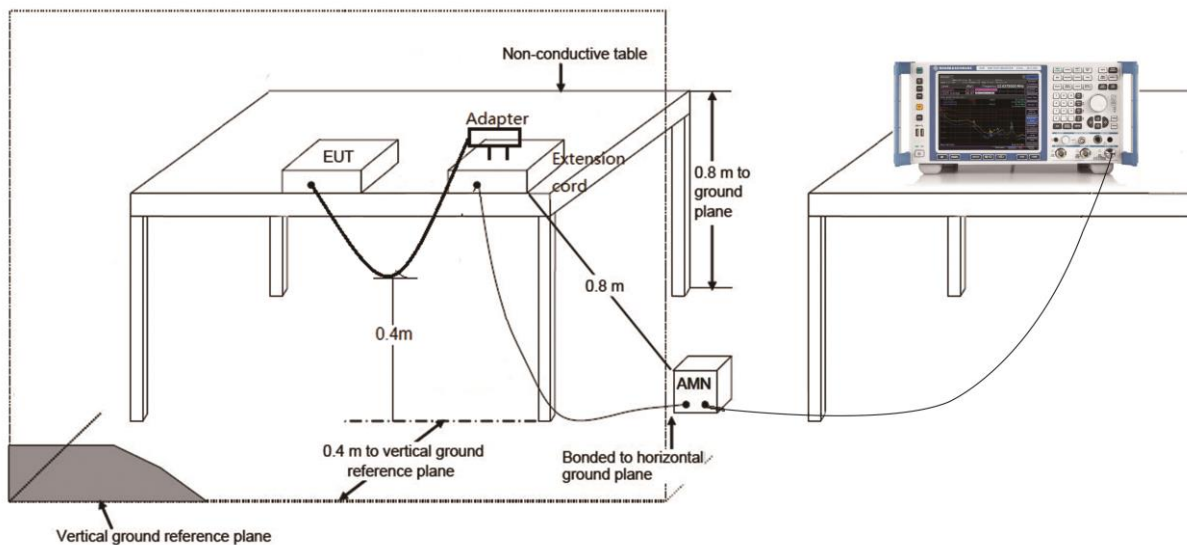
7.8.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
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.

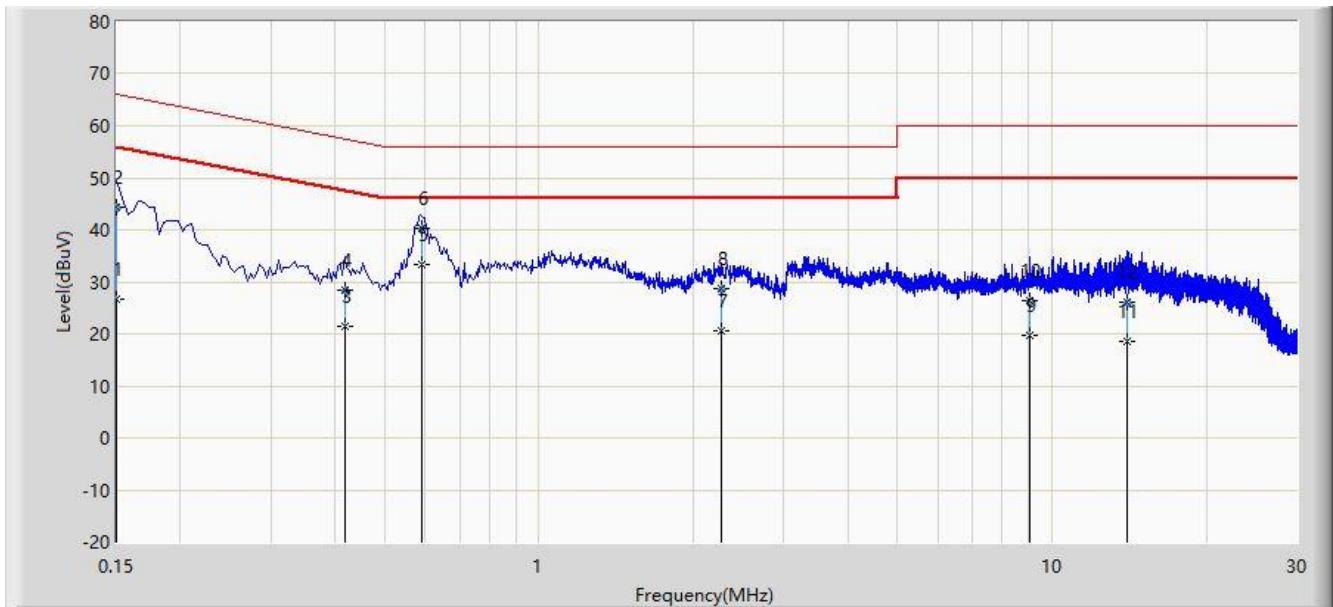
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3.Test Result

Site: SR2	Time: 2020/07/02 - 13:49
Limit: FCC_Part15.207_CE_AC Power	Engineer: Liz Yuan
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: 4K OPTICAL VIDEO CAMERA	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz	

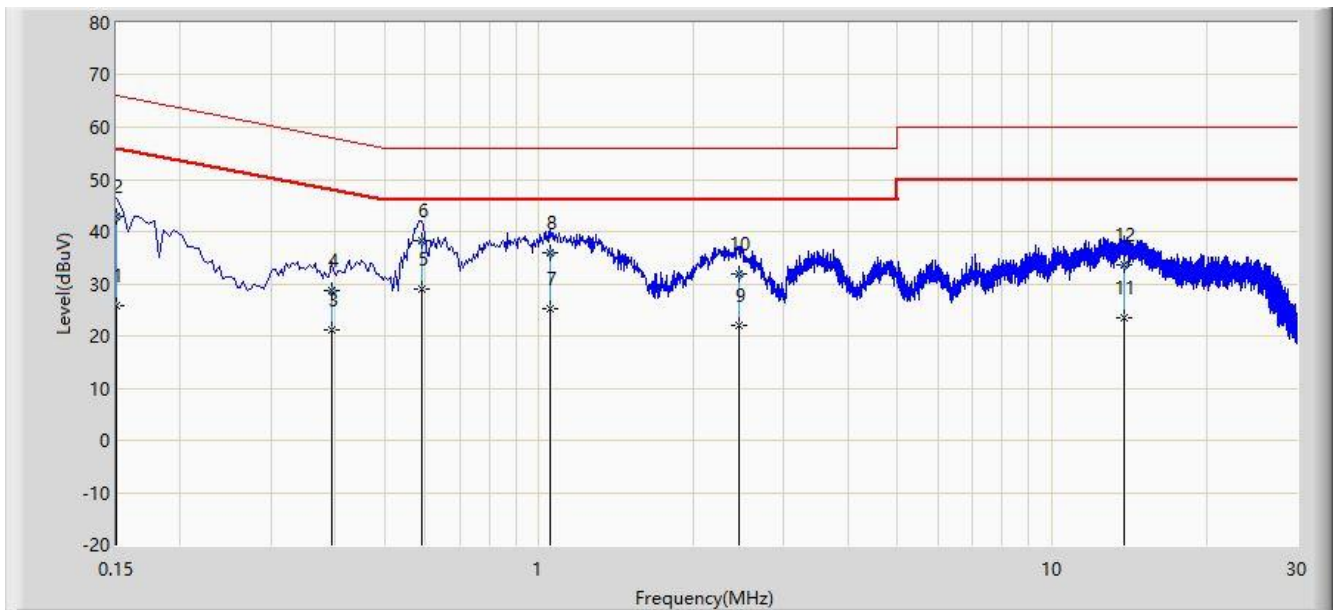


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.150	26.565	15.799	-29.435	56.000	10.766	AV
2			0.150	44.370	33.605	-21.630	66.000	10.766	QP
3			0.418	21.584	11.624	-25.904	47.488	9.960	AV
4			0.418	28.422	18.462	-29.066	57.488	9.960	QP
5		*	0.590	33.459	23.506	-12.541	46.000	9.953	AV
6			0.590	40.345	30.391	-15.655	56.000	9.953	QP
7			2.266	20.590	10.880	-25.410	46.000	9.710	AV
8			2.266	28.594	18.883	-27.406	56.000	9.710	QP
9			9.054	19.607	9.796	-30.393	50.000	9.810	AV
10			9.054	26.341	16.530	-33.659	60.000	9.810	QP
11			14.030	18.487	8.593	-31.513	50.000	9.894	AV
12			14.030	25.964	16.070	-34.036	60.000	9.894	QP

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

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

Site: SR2	Time: 2020/07/02 - 14:28
Limit: FCC_Part15.207_CE_AC Power	Engineer: Liz Yuan
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: 4K OPTICAL VIDEO CAMERA	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at Channel 2412MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.150	25.873	15.108	-30.127	56.000	10.766	AV
2			0.150	42.869	32.104	-23.131	66.000	10.766	QP
3			0.394	21.134	11.179	-26.845	47.979	9.955	AV
4			0.394	28.697	18.742	-29.282	57.979	9.955	QP
5		*	0.590	28.881	18.918	-17.119	46.000	9.963	AV
6			0.590	38.311	28.348	-17.689	56.000	9.963	QP
7			1.050	25.148	15.356	-20.852	46.000	9.792	AV
8			1.050	35.809	26.018	-20.191	56.000	9.792	QP
9			2.462	22.085	12.387	-23.915	46.000	9.698	AV
10			2.462	31.814	22.117	-24.186	56.000	9.698	QP
11			13.862	23.620	13.696	-26.380	50.000	9.924	AV
12			13.862	33.755	23.831	-26.245	60.000	9.924	QP

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

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

8. CONCLUSION

The data collected relate only the item(s) tested and show that the unit is compliance with Part 15C of the FCC Rules.

The End

Appendix A - Test Setup Photograph

Refer to “2006RSU061-UT” file.

Appendix B - EUT Photograph

Refer to “2006RSU061-UE” file.