



# **FCC TEST REPORT**

for

**Product: Network cameras**

**Model: IPC-EF5812M-AS-L(Refer to page 9)**

**Report No.: PTC25032012708E-FC01**

Issued for

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## 2. TEST SUMMARY

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Class B	Conducted Emission (Main Port)	PASS	Complied with limit
	Radiated Emission	PASS	Complied with limit

Note: 1) The test result verdict is decided by the limit of test standard.

2) The information of measurement uncertainty is available upon the customer's request.



### 3. TEST SITE

#### 3.1. TEST FACILITY

Precise Testing & Certification (Guangdong) Co., Ltd.

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.

☆ CNAS Registration No.: CNAS L5772

☆ FCC Registration No.: 790290

☆ A2LA Certificate No.: 4408.01

☆ IC Registration No.: 12191A-1

#### 3.2. MEASUREMENT UNCERTAINTY

Parameter	U <sub>lab</sub>	U <sub>cispr</sub>
Temperature	± 1° C	-
Humidity	± 5%	-
DC and Low Frequency Voltages	± 3%	-
Conducted Emission(9KHz-150KHz)	± 3.60dB	± 3.80dB
Conducted Emission(9KHz-30MHz)	± 3.60dB	± 3.40dB
Radiated Emission(30MHz-1GHz)	± 4.76dB	± 6.30dB
Radiated Emission (1GHz-6GHz)	± 4.44dB	± 5.20dB
Radiated Emission (6GHz-18GHz)	± 4.44dB	± 5.50dB

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

#### 3.3. DECISION RULE

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The U<sub>lab</sub> is less than U<sub>cispr</sub>, compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
3. For conducted emission test of laboratory have a measurement uncertainty greater than that specified in harmonized standard, this equipment can still be used provided that an



adjustment is made follows: any additional uncertainty in the test system over and above that specified in harmonized standard should be used to tighten the test requirements-making the test harder to pass. This procedure will ensure that a test system not compliant with harmonized standard does not increase the probability of passing a EUT that would otherwise have failed a test if a test system compliant with harmonized standard had been used.

### 3.4. LIST OF TEST AND MEASUREMENT INSTRUMENTS

#### 3.4.1. For conducted emission at the mains terminals test

Name of Equipment	Manufacturer	Model	Serial No.	Last Cal.	Calibration Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	Aug. 15,2024	1 Year
Artificial Mains Network	Rohde&Schwarz	ENV216	102453	Aug. 15,2024	1 Year
ISN	Rohde&Schwarz	ENY81	100118	Aug. 15,2024	1 Year
ISN	Rohde&Schwarz	NTFM8158	00252	Jul. 24,2024	1 Year
Test S/W	Tonscend	JS32-CE/4.0.0.3			

#### 3.4.2. For radiated emission test (30MHz-1GHz)

Name of Equipment	Manufacturer	Model	Serial No.	Last Cal.	Calibration Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	Aug. 15,2024	1 Year
Bilog Antenna	SCHWARZBECK	VULB 9160	9160-3355	Aug. 15,2024	1 Year
Preamplifier (low frequency)	SCHWARZBECK	BBV 9745	9745-0013	Aug. 15,2024	1 Year
Test S/W	Tonscend	JS32-RE/4.0.0.0			

#### 3.4.3. For radiated emission test (1GHz above)

Name of Equipment	Manufacturer	Model	Serial No.	Last Cal.	Calibration Interval
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Report No.: PTC25032012708E-FC01

Spectrum Analyzer	Rohde&Schwarz	FSVR40	6625-01-588-5515	Aug. 15,2024	1 Year
Horn Antenna	SCHWARZBECK	9120D	9120D-1246	Aug. 15,2024	1 Year
High NOISE AMPLIFIER	ZHINAN	ZN3380C	15002	Aug. 15,2024	1 Year
Test S/W	Tonscend	JS32-RE/4.0.0.0			



#### 4. EUT DESCRIPTION

<b>Product</b>	Network cameras
<b>Model</b>	IPC-EF5812M-AS-L(Refer to page 9)
<b>Supplied Voltage</b>	DC 12V/2A
<b>Power</b>	N/A

#### I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
AC Port	1	<input type="checkbox"/>
DC Port	1	<input checked="" type="checkbox"/>

#### Models Difference

Different appearance, consistent function.



### Model list

IPC-BF52XXX-XXX  
IPC-BF52XXX-XXX-L      IPC-BF52XXX-XXX-L-B  
IPC-BF52XXX-XXX-PV      IPC-BF52XXX-XXX-PV-B  
IPC-BF54XXX-XXX  
IPC-BF54XXX-XXX-L      IPC-BF54XXX-XXX-L-B  
IPC-BF54XXX-XXX-PV      IPC-BF54XXX-XXX-PV-B  
IPC-BF55XXX-XXX  
IPC-BF55XXX-XXX-L      IPC-BF55XXX-XXX-L-B  
IPC-BF55XXX-XXX-PV      IPC-BF55XXX-XXX-PV-B  
IPC-BF56XXX-XXX  
IPC-BF56XXX-XXX-L      IPC-BF56XXX-XXX-L-B  
IPC-BF56XXX-XXX-PV      IPC-BF56XXX-XXX-PV-B  
IPC-BF58XXX-XXX  
IPC-BF58XXX-XXX-L      IPC-BF58XXX-XXX-L-B  
IPC-BF58XXX-XXX-PV      IPC-BF58XXX-XXX-PV-B  
IPC-DF52XXX-XXX  
IPC-DF52XXX-XXX-L      IPC-DF52XXX-XXX-L-B  
IPC-DF52XXX-XXX-PV      IPC-DF52XXX-XXX-PV-B  
IPC-DF54XXX-XXX  
IPC-DF54XXX-XXX-L      IPC-DF54XXX-XXX-L-B  
IPC-DF54XXX-XXX-PV      IPC-DF54XXX-XXX-PV-B  
IPC-DF55XXX-XXX  
IPC-DF55XXX-XXX-L      IPC-DF55XXX-XXX-L-B  
IPC-DF55XXX-XXX-PV      IPC-DF55XXX-XXX-PV-B  
IPC-DF56XXX-XXX  
IPC-DF56XXX-XXX-L      IPC-DF56XXX-XXX-L-B  
IPC-DF56XXX-XXX-PV      IPC-DF56XXX-XXX-PV-B  
IPC-DF58XXX-XXX  
IPC-DF58XXX-XXX-L      IPC-DF58XXX-XXX-L-B  
IPC-DF58XXX-XXX-PV      IPC-DF58XXX-XXX-PV-B  
IPC-EF52XXX-XXX  
IPC-EF52XXX-XXX-L      IPC-EF52XXX-XXX-L-B



IPC-EF52XXX-XXX-PV	IPC-EF52XXX-XXX-PV-B
IPC-EF54XXX-XXX	
IPC-EF54XXX-XXX-L	IPC-EF54XXX-XXX-L-B
IPC-EF54XXX-XXX-PV	IPC-EF54XXX-XXX-PV-B
IPC-EF55XXX-XXX	
IPC-EF55XXX-XXX-L	IPC-EF55XXX-XXX-L-B
IPC-EF55XXX-XXX-PV	IPC-EF55XXX-XXX-PV-B
IPC-EF56XXX-XXX	
IPC-EF56XXX-XXX-L	IPC-EF56XXX-XXX-L-B
IPC-EF56XXX-XXX-PV	IPC-EF56XXX-XXX-PV-B
IPC-EF58XXX-XXX	
IPC-EF58XXX-XXX-L	IPC-EF58XXX-XXX-L-B
IPC-EF58XXX-XXX-PV	IPC-EF58XXX-XXX-PV-B



## 5. TEST METHODOLOGY

### 5.1. TEST MODE

The EUT was tested together with the thereafter additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The following test mode(s) were assessed.

Test Items		Test Mode
Emission	Conducted Emission	Working
	Radiated Emission	Working

### 5.2. EUT SYSTEM OPERATION

1. Set up EUT with the support equipment.
2. Make sure the EUT work normally during the test.



## 6. SETUP OF EQUIPMENT UNDER TEST

### 6.1. DESCRIPTION OF SUPPORT UNITS

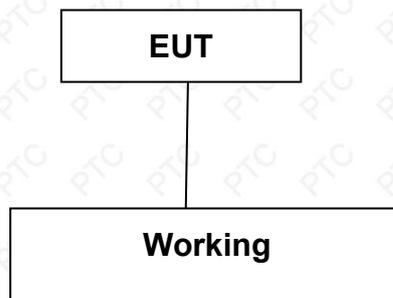
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model	Serial No.	Trade Name
1.	N/A	N/A	N/A	N/A

Note: 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

### 6.2. CONFIGURATION OF SYSTEM UNDER TEST



(EUT: Network cameras)



## 7. CONDUCTED EMISSION MEASUREMENT

### 7.1. LIMITS

FREQUENCY (MHz)	Class A		Class B	
	Quasi-peak dB( $\mu$ V)	Average dB( $\mu$ V)	Quasi-peak dB( $\mu$ V)	Average dB( $\mu$ V)
0.15 - 0.5	79	66	66-56	56-46
0.5 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note: 1) The lower limit shall apply at the transition frequencies.

2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 7.2. TEST PROCEDURES

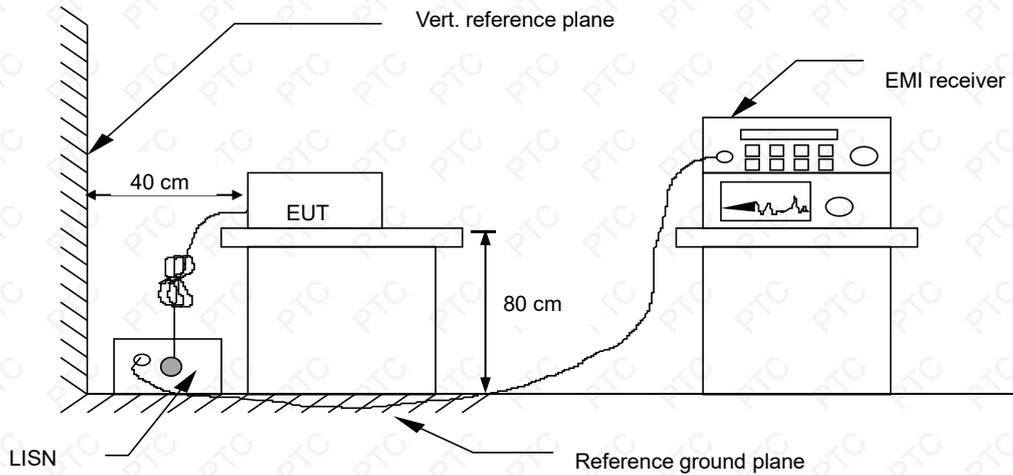
The EUT and Support equipment, if needed, was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane. When the EUT is floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane. The EUT should be 0.8 m apart from the AMN, where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, Details please refer to test setup photography.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes. During the above scans, the emissions were maximized by cable manipulation.

A scan was taken on both of the power lines, Line and neutral, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

Note: Test Software Name: Tonscend,JS32-RE/4.0.0.3.

### 7.3. TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

### 7.4. TEST RESULT

<b>Product name</b>	Network cameras	<b>Tested By</b>	LI
<b>Model</b>	IPC-EF5812M-AS-L	<b>Detector Function</b>	Peak / Quasi-peak/AV
<b>Test Mode</b>	Working	<b>6 dB Bandwidth</b>	9 kHz
<b>Environmental Conditions</b>	24.0°C, 55.1 % RH, 101.2 kPa	<b>Test Result</b>	Pass

Note:

L = Line Line, N = Neutral Line

Freq. = Emission frequency in MHz

Reading level (dB $\mu$ V) = Receiver reading

Corr. Factor (dB) = attenuator + Cable loss

Level (dB $\mu$ V) = Reading level (dB $\mu$ V) + Corr. Factor (dB)

Limit (dB $\mu$ V) = Limit stated in standard

Over Limit (dB) = Level (dB $\mu$ V) – Limit (dB $\mu$ V)

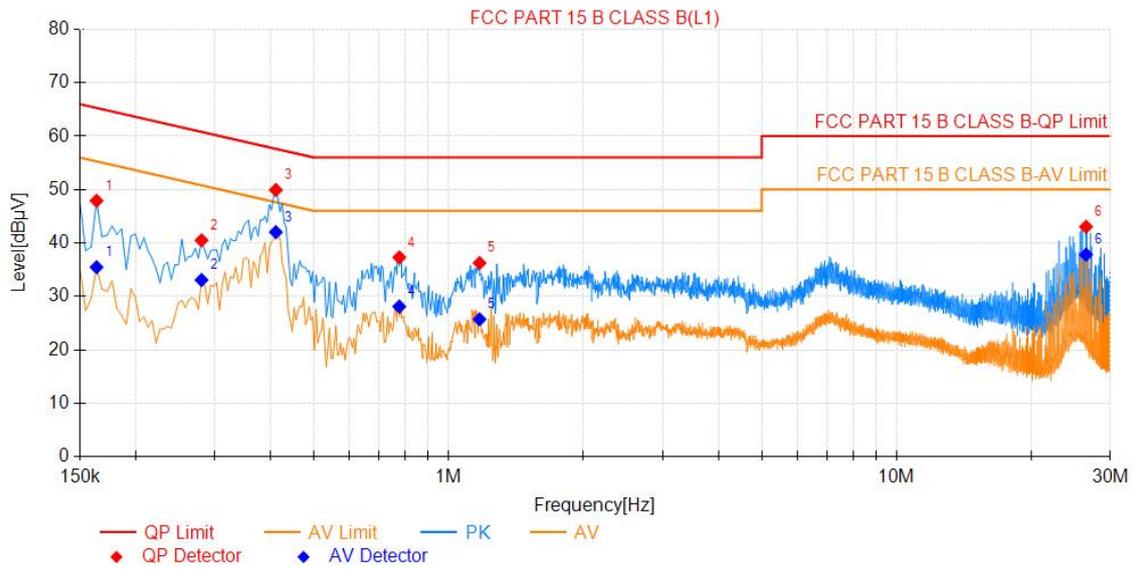
QP = Quasi-Peak

AV = Average



Please refer to the following diagram:

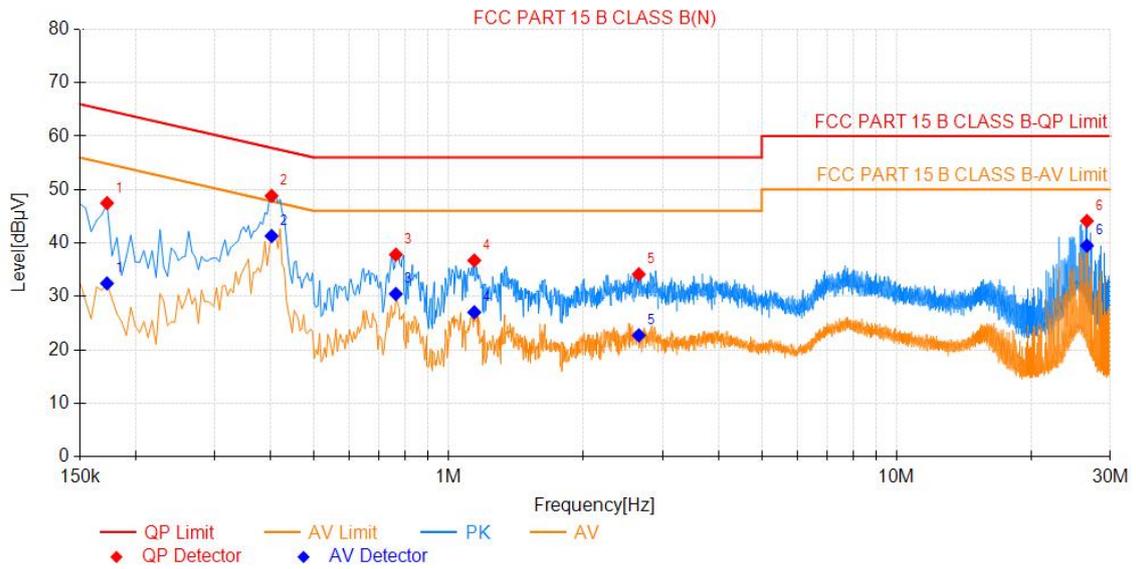
Line:



Final Data List											
NO.	Freq. [MHz]	QP Reading [dBµV]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.164	28.34	19.56	47.90	65.28	17.38	15.90	35.46	55.28	19.82	PASS
2	0.281	20.97	19.53	40.50	60.80	20.30	13.54	33.07	50.80	17.73	PASS
3	0.411	30.18	19.74	49.92	57.63	7.71	22.28	42.02	47.63	5.61	PASS
4	0.776	17.70	19.60	37.30	56.00	18.70	8.50	28.10	46.00	17.90	PASS
5	1.172	16.60	19.65	36.25	56.00	19.75	6.06	25.71	46.00	20.29	PASS
6	26.489	23.15	19.89	43.04	60.00	16.96	17.93	37.82	50.00	12.18	PASS



Neutral:



Final Data List											
NO.	Freq. [MHz]	QP Reading [dBµV]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.173	27.89	19.57	47.46	64.84	17.38	12.86	32.43	54.84	22.41	PASS
2	0.402	29.13	19.69	48.82	57.81	8.99	21.61	41.30	47.81	6.51	PASS
3	0.762	18.17	19.64	37.81	56.00	18.19	10.81	30.45	46.00	15.55	PASS
4	1.140	17.06	19.66	36.72	56.00	19.28	7.36	27.02	46.00	18.98	PASS
5	2.657	14.69	19.45	34.14	56.00	21.86	3.25	22.70	46.00	23.30	PASS
6	26.610	23.99	20.13	44.12	60.00	15.88	19.36	39.49	50.00	10.51	PASS



## 8. RADIATED EMISSION MEASUREMENT

### 8.1. LIMITS

Maximum permissible level of Radiated Emission measured at 3 meter distance.

FREQUENCY (MHz)	dB $\mu$ V/m (At 3m)	
	Class A digital device	Class B digital device
30~88	49.00	40.00
88~216	53.50	43.50
216~960	56.40	46.00
960~1000	59.50	54.00

Note: 1) The lower limit shall apply at the transition frequencies.

2) Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m).

Requirements for radiated emissions at frequencies above 1 GHz for class A&B equipment

FREQUENCY (MHz)	Detector type/ bandwidth	dB $\mu$ V/m (At 3m)	
		Class A digital device	Class B digital device
1000~6000	Average/ 1 MHz	60	54
1000~6000	Peak/ 1 MHz	80	74

Note: 1) An FSOATS may be a SAC/OATS with RF absorber on the RGP or a FAR.



## 8.2. TEST PROCEDURE

The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is floor standing equipment, it is placed on the ground plane which has a 0.1 m non-conductive covering to insulate the EUT from the ground plane.

The antenna was placed at 3 meter away from the EUT. The antenna connected to the spectrum analyzer via a cable and at times a pre-amplifier would be used.

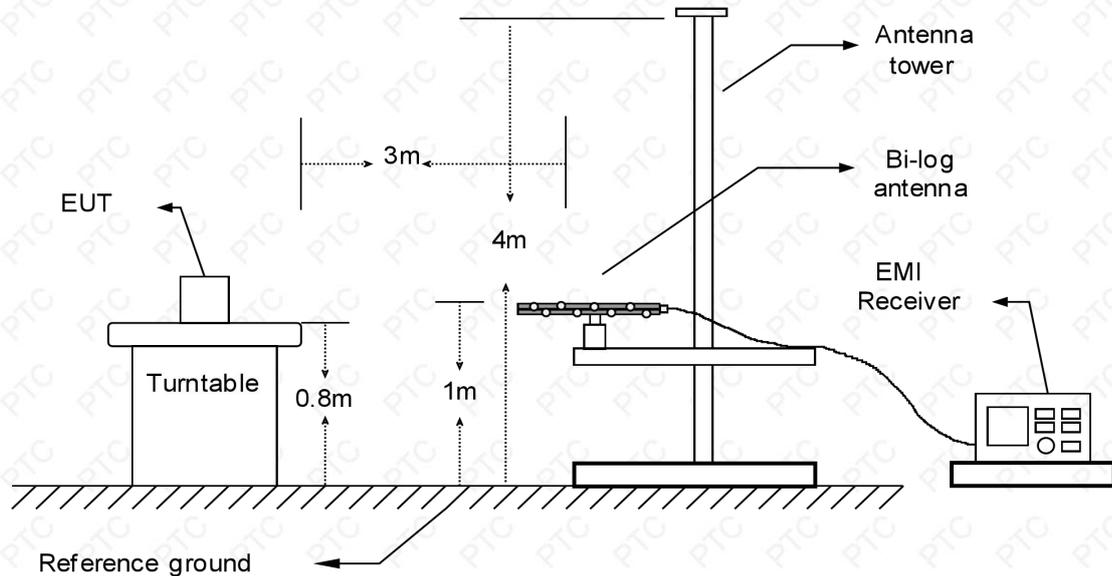
The analyzer / receiver quickly scanned from 30 MHz to 6000 MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

During the above scans, the emissions were maximized by cable manipulation. Each modes is measured, recorded at least the six highest emissions. The emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.

The test data of the worst-case condition(s) was recorded.

Note: Test Software Name: Tonscend,JS32-RE/4.0.0.0.

### 8.3. TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration

### 8.4. TEST RESULT

<b>Product name</b>	Network cameras	<b>Antenna Distance</b>	3 m
<b>Model</b>	IPC-EF5812M-AS-L	<b>Antenna Pole</b>	Vertical / Horizontal
<b>Test Mode</b>	Working	<b>Detector Function</b>	Peak / Quasi-peak
<b>Environmental Conditions</b>	24.5°C, 52 % RH, 101.3 kPa	<b>6 dB Bandwidth</b>	120 kHz
<b>Tested by</b>	Huo	<b>Test Result</b>	Pass

Note:

Freq. = Emission frequency in MHz

Reading level (dB $\mu$ V) = Receiver reading(dB $\mu$ V)

Corr.Factor (dB/m)=Antenna factor(dB/m)+Cable loss(dB)-Preamp Factor(dB)

Measurement (dB $\mu$ V/m)=Reading level(dB $\mu$ V)+ Corr. Factor (dB/m)

Limit (dB $\mu$ V/m) = Limit stated in standard

Over Limit (dB) = Measurement (dB $\mu$ V/m) – Limit (dB $\mu$ V/m)

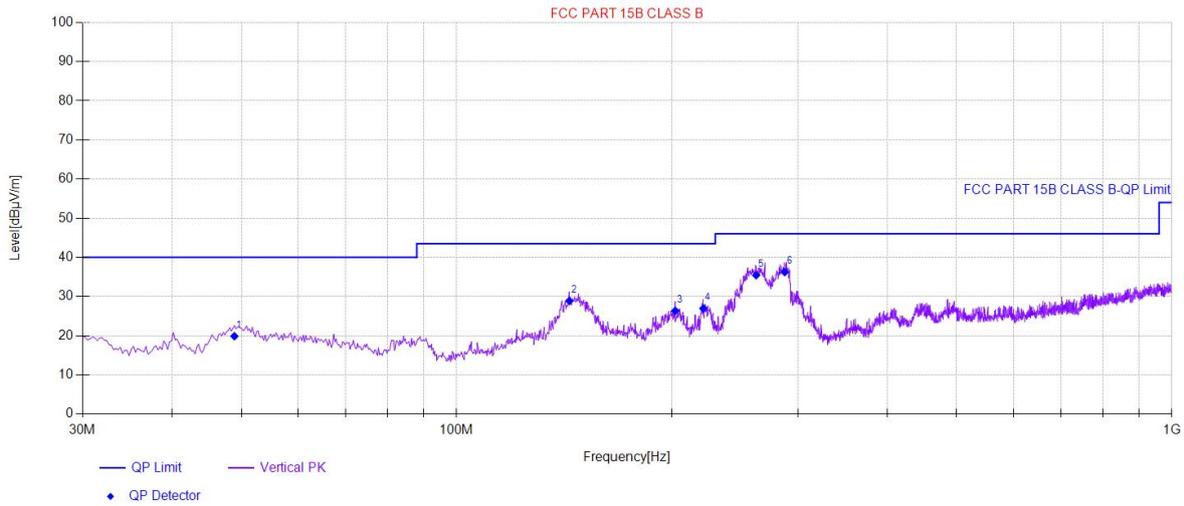
QP = Quasi-Peak

The highest frequency of the EUT internal source is greater than 108MHz, so the frequency is measured to 6GHz.



Please refer to the following diagram: ( Radiated Emission test Result below 1G )

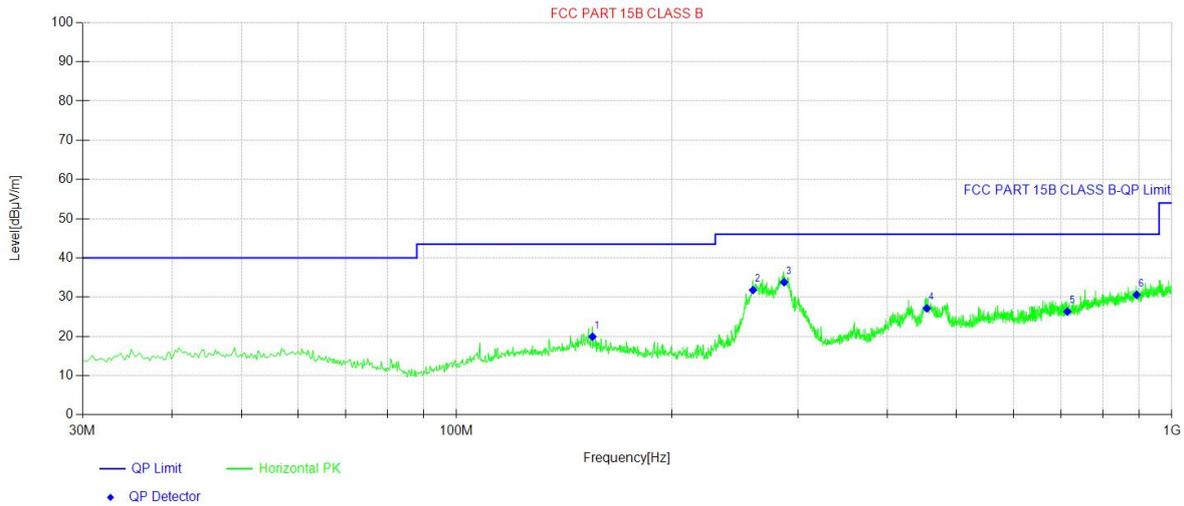
Vertical:



Final Data List[QP]								
NO.	Freq. [MHz]	QP Reading [dBµV/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity	Verdict
1	48.92	30.63	-10.76	19.87	40.00	20.13	Vertical	PASS
2	143.73	38.73	-9.86	28.87	43.50	14.63	Vertical	PASS
3	202.18	38.77	-12.42	26.35	43.50	17.15	Vertical	PASS
4	221.33	39.13	-12.18	26.95	43.50	16.55	Vertical	PASS
5	262.32	45.41	-9.97	35.44	46.00	10.56	Vertical	PASS
6	287.54	45.43	-9.20	36.23	46.00	9.77	Vertical	PASS



Horizontal:

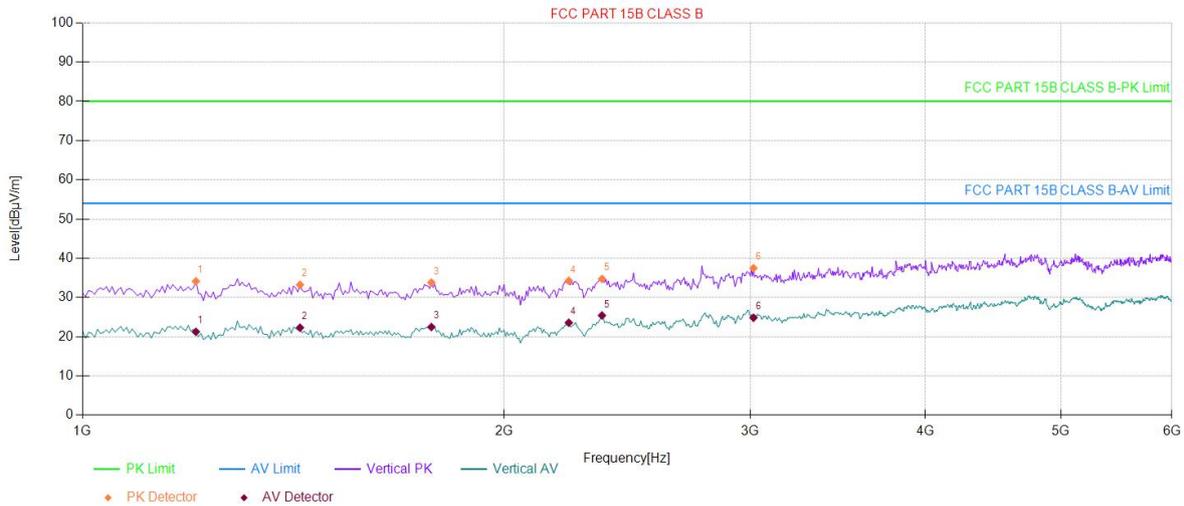


Final Data List[QP]								
NO.	Freq. [MHz]	QP Reading [dBµV/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity	Verdict
1	154.89	29.27	-9.35	19.92	43.50	23.58	Horizontal	PASS
2	259.65	41.92	-10.12	31.80	46.00	14.20	Horizontal	PASS
3	287.05	43.02	-9.22	33.80	46.00	12.20	Horizontal	PASS
4	454.38	31.92	-4.78	27.14	46.00	18.86	Horizontal	PASS
5	714.34	25.92	0.40	26.32	46.00	19.68	Horizontal	PASS
6	892.57	26.51	4.08	30.59	46.00	15.41	Horizontal	PASS



Please refer to the following diagram: ( Radiated Emission test Result Above 1G )

Vertical:

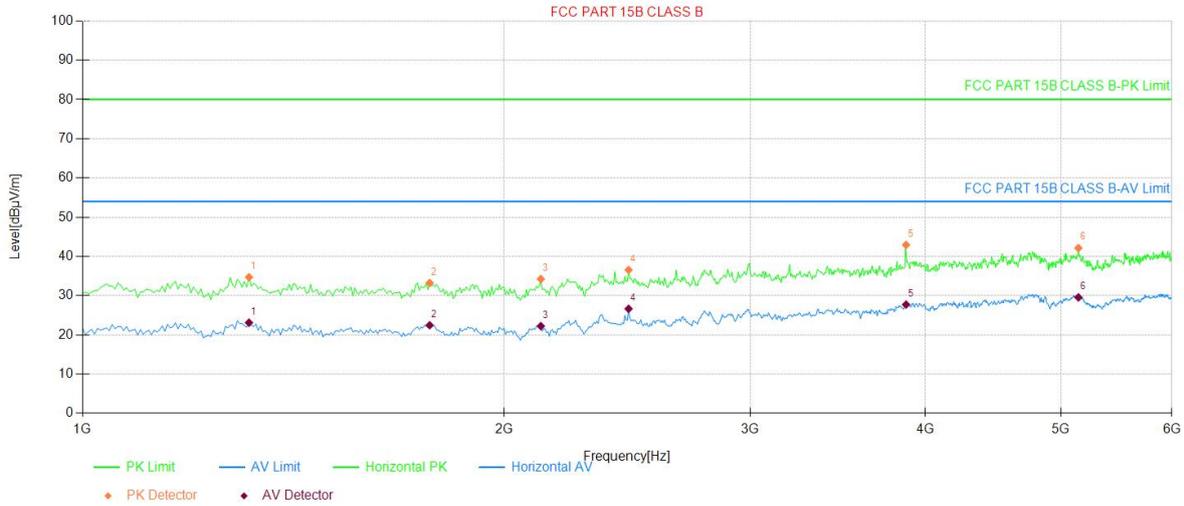


PK Final Data List										
NO.	Freq. [MHz]	Factor [dB]	PK Value [dBµV/m]	PK Limit [dBµV/m]	PK Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity	Verdict
1	1205.0	-2.93	34.14	80.00	45.86	Peak	100	271	Vertical	PASS
2	1430.0	-2.83	33.24	80.00	46.76	Peak	100	84	Vertical	PASS
3	1775.0	-3.51	33.81	80.00	46.19	Peak	100	318	Vertical	PASS
4	2225.0	-1.97	34.26	80.00	45.74	Peak	100	326	Vertical	PASS
5	2350.0	-1.32	34.73	80.00	45.27	Peak	100	249	Vertical	PASS
6	3015.0	1.07	37.47	80.00	42.53	Peak	100	54	Vertical	PASS

AV Final Data List										
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity	Verdict
1	1205.0	-2.93	21.26	54.00	32.74	AV	100	271	Vertical	PASS
2	1430.0	-2.83	22.30	54.00	31.70	AV	100	84	Vertical	PASS
3	1775.0	-3.51	22.47	54.00	31.53	AV	100	318	Vertical	PASS
4	2225.0	-1.97	23.57	54.00	30.43	AV	100	326	Vertical	PASS
5	2350.0	-1.32	25.42	54.00	28.58	AV	100	249	Vertical	PASS
6	3015.0	1.07	24.84	54.00	29.16	AV	100	54	Vertical	PASS



Horizontal:



PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Value [dBµV/m]	PK Limit [dBµV/m]	PK Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity	Verdict
1	1315.0	-2.82	34.69	80.00	45.31	Peak	100	78	Horizontal	PASS
2	1770.0	-3.50	33.23	80.00	46.77	Peak	100	325	Horizontal	PASS
3	2125.0	-2.48	34.24	80.00	45.76	Peak	100	202	Horizontal	PASS
4	2455.0	-0.78	36.55	80.00	43.45	Peak	100	359	Horizontal	PASS
5	3875.0	3.12	42.92	80.00	37.08	Peak	100	61	Horizontal	PASS
6	5145.0	6.57	42.11	80.00	37.89	Peak	100	20	Horizontal	PASS

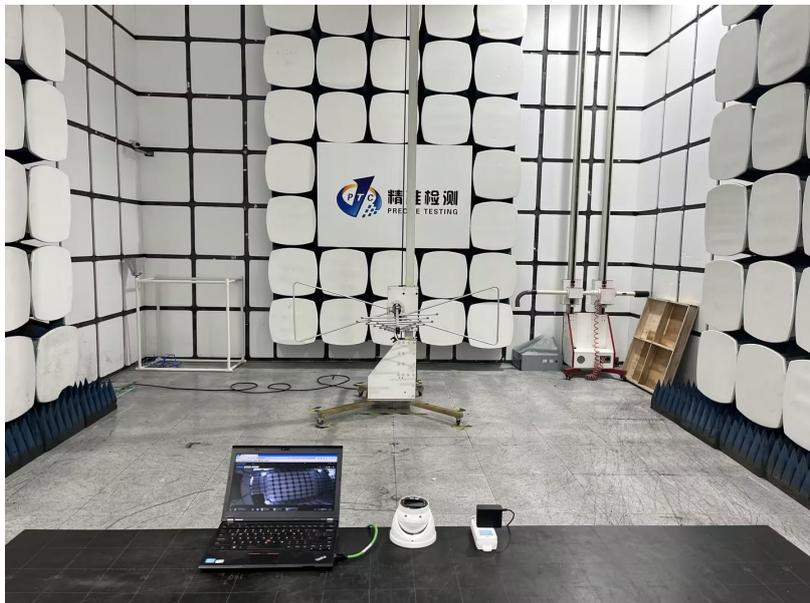
AV Final Data List

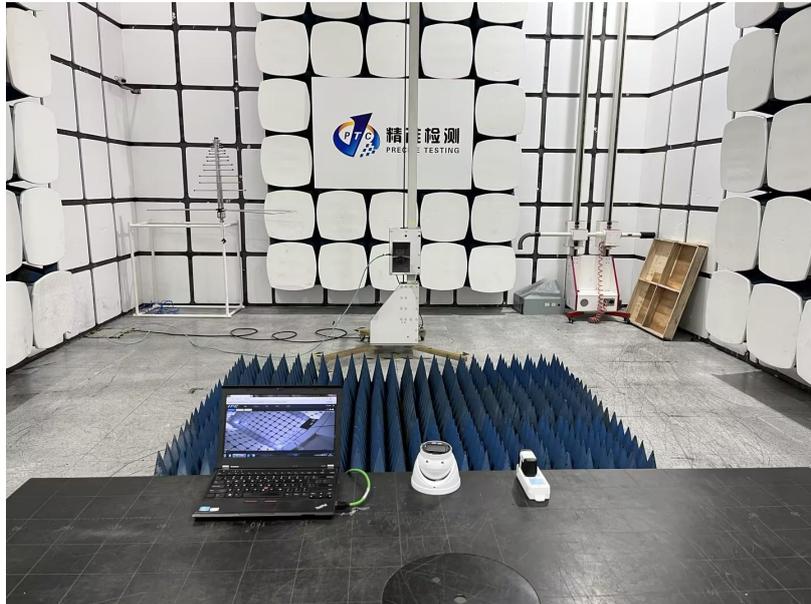
NO.	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Detector	Height [cm]	Angle [°]	Polarity	Verdict
1	1315.0	-2.82	23.10	54.00	30.90	AV	100	78	Horizontal	PASS
2	1770.0	-3.50	22.45	54.00	31.55	AV	100	325	Horizontal	PASS
3	2125.0	-2.48	22.23	54.00	31.77	AV	100	202	Horizontal	PASS
4	2455.0	-0.78	26.64	54.00	27.36	AV	100	359	Horizontal	PASS
5	3875.0	3.12	27.72	54.00	26.28	AV	100	61	Horizontal	PASS
6	5145.0	6.57	29.55	54.00	24.45	AV	100	20	Horizontal	PASS

## 9. PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST



### RADIATED EMISSION TEST

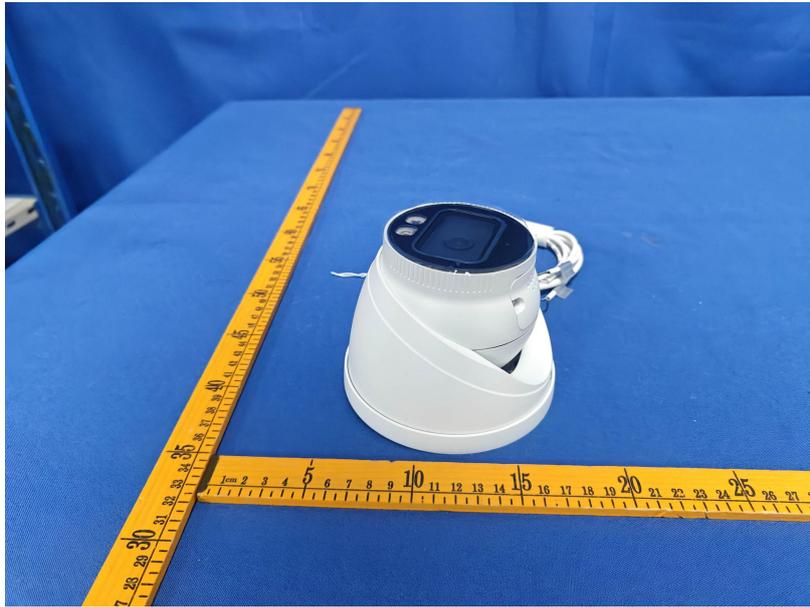




## 10. PHOTOGRAPHS OF EUT









## 11. LABELING REQUIREMENTS

According to FCC Part 15 Section 15.19, a device subject to certification or Supplier's Declaration of Conformity shall be labeled as follows:

**“This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.”**

The device shall bear the statement in a conspicuous location on the device.

Devices subject to authorization under Supplier's Declaration of Conformity may be labeled with the FCC logo on a voluntary basis as a visual indication that the product complies with the applicable FCC requirements.

Note: The Commission concluded that if the labeling and regulatory information cannot be displayed to the intended recipient “in a manner that effects its purpose,” the device is incapable of digitally displaying the required information as required by the E-LABEL Act. Electronic labeling information must be electronically displayed in a manner that is “clearly legible without the aid of magnification” Similarly, because electronic labels cannot be easily removed or replaced if they are to be effective, manufacturers that choose to display required labeling information electronically must ensure that the information may not be removed or modified by anyone other than the responsible party.



## 12. INFORMATION TO USER

If a product must be tested and authorized under Supplier's Declaration of Conformity, a compliance information statement shall be supplied with product at the time of marketing or importation, containing the following information:

- (1) Identification of the product, e.g., name and model number;
- (2) A compliance statement as applicable, e.g., for devices subject to part 15 of this chapter as specified in 15.19(a)(3) of this chapter, that the product complies with the rules; and
- (3) The identification, by name, address and telephone number or Internet contact information, of the responsible party. The responsible party for Supplier's Declaration of Conformity must be located within the United States.

According to FCC Part 15 section 15.21, the users manual or instruction manual for an intentional or unintentional radiator shall caution the user that:

**“Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment”.**

Also, refer to FCC Part 15 section 15.105, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

**“Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:**

- Reorient or relocate the receiving antenna.**
- Increase the separation between the equipment and receiver.**
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.**
- Consult the dealer or an experienced radio/TV technician for help.”**

**— End of report —**