VCCI Test Report

Product Name ： Network Camera
Model No. ： IB9368-HT,IB9388-HT

Applicant ： VIVOTEK INC.
Address ： 6F, No.192, Lien-Cheng Rd., Chung-Ho , New Taipei City, 235, Taiwan, R.O.C.

Date of Receipt ： 2019/06/21
Issued Date ： 2019/07/12
Report No. ： 1960311R-ITJPP01V00
Report Version ： V1.0

Testing Laboratory
3023

Test Report

Issued Date : 2019/07/12
Report No. : 1960311R-ITJPP01V00

Product Name	:	Network Camera
Applicant	:	VIVOTEK INC.
Address	:	6F, No.192, Lien-Cheng Rd., Chung-Ho , New Taipei City, 235, Taiwan, R.O.C.
Manufacturer	:	VIVOTEK INC.
Model No.	:	IB9368-HT,IB9388-HT
EUT Rated Voltage	:	By PoE
EUT Test Voltage	:	By PoE
Trade Name	:	VIVOTEK
Applicable Standard	:	VCCI CISPR 32: 2016-11, Class B
Test Result	:	Complied
Performed Location	:	DEKRA Testing and Certification Co., Ltd. Linkou Laboratory No. 5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan TEL:+866-2-8601-3788 / FAX:+886-2-8601-3789

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Reviewed By : Leo Lin
(Engineer / Leo Lin)

Approved By :
(Director / Vincent Lin)

Laboratory Information

We, **DEKRA Testing and Certification Co., Ltd.**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scopes:

Taiwan R.O.C.	**:**	**BSMI, NCC, TAF**
Norway	**:**	**DNVGL**
USA	**:**	**FCC**
Japan	**:**	**VCCI**

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd.Web Site :
http://www.dekra.com.tw/english/about/certificates.aspx?bval=5
The address and introduction of DEKRA Testing and Certification Co., Ltd.laboratories can be founded in our Web site : http://www.dekra.com.tw/index_en.aspx
If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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TABLE OF CONTENTS

1. General Information

1.1. EUT Description

Product Name	Network Camera
Trade Name	VIVOTEK
Model No.	IB9368-HT,IB9388-HT

Note: The different of each model is shown as below:

	IB9368-HT	IB9388-HT
Discrimination	sensor 2M	sensor 5M

1.2. Mode of Operation

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

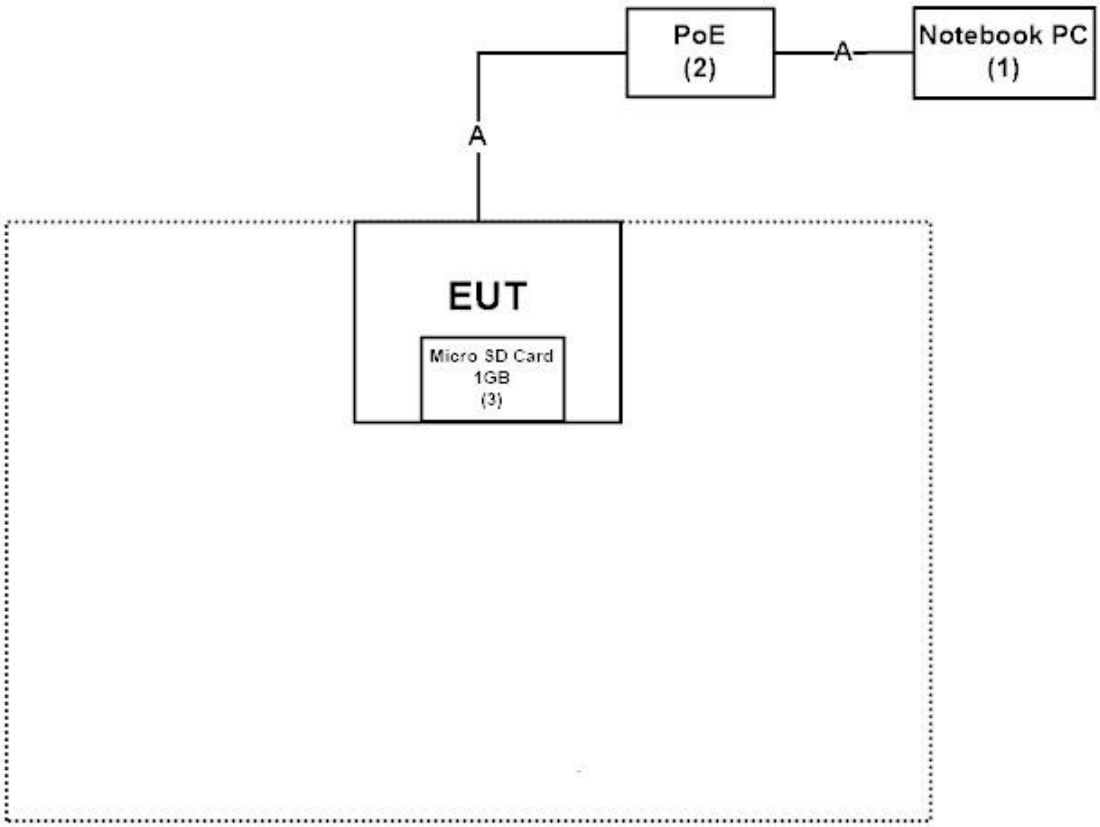
Pre-Test Mode	
Mode 1: IB9368-HT, POE MODE Mode 2: IB9388-HT, POE MODE	
Final Test Mode	
Emission	Mode 1: IB9368-HT, POE MODE Mode 2: IB9388-HT, POE MODE

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	Latitude 5580	2HRD7H2	Non-Shielded,1.8m
2	PoE	N/A	N/A	N/A	Non-shielded, 1.8m
3	Micro SD Card 1GB	SanDisk	N/A	0801002841D2N	N/A

1.4. Configuration of Tested System

Connection Diagram


Signal Cable Type		Signal cable Description
A	LAN Cable	Non-Shielded, 6m, two PCS

1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.4.
2	Turn on the power of all equipment.
3	All the features of the EUT operation normally.

2. Technical Test

2.1. Summary of Test Result

☒ No deviations from the test standards

☐ Deviations from the test standards as below description:

Emission			
Performed Item	Normative References	Test Performed	Deviation
Conducted Emission	VCCI CISPR 32: 2016-11 Class B	No	No
Impedance Stabilization Network	VCCI CISPR 32: 2016-11 Class B	Yes	No
Radiated Emission	VCCI CISPR 32: 2016-11 Class B	Yes	No

2.2. List of Test Equipment

Impedance Stabilization Network / SR1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESCS 30	100367	2019/01/28
LISN	R&S	ENV216	100085	2019/03/11
LISN	R&S	ESH2-Z5	836679/023	2019/03/11
Coaxial Cable	DEKRA	RG 400	LC016-RG	2019/06/20
Capacitive Voltage Probe	Schaffner	CVP2200A	18331	2018/12/03
RF Current Probe	FCC	F-65	198	2018/12/13
BALANCED TELECOM ISN	FCC	FCC-TLISN-T2-02	20316	2018/09/14
Coupling Decoupling Network	Teseq	CDN T800	30303	2019/05/31

Radiated Emission / Site7

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Broadband Antenna	Schwarzbeck	VULB 9168	0852	2019/06/23
EMI Test Receiver	R&S	ESCI	100649	2018/07/20
Coaxial Cable	DEKRA	RG 214	LC007-RG	2019/06/17
Pre-Amplifier	DEKRA	AP/0100A	CHM/1009094	2019/06/17
Site7 NSA	DEKRA	N/A	N/A	2019/06/17

Radiated Emission / CB7

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESU26	100433	2018/11/13
Horn Antenna	ETS-Lindgren	3117	00202723	2018/08/08
Horn Antenna	SCHWARZBECK	9120D	576	2018/12/18
Pre-Amplifier	EMCI	EMC051845SE	980359	2018/10/24
CB7 VSWR	DEKRA	N/A	N/A	2019/06/25

VCCI Test Site:

Test Item	Test Site	VCCI No.
Conducted Emission	SR1	C-2428
Conducted Emission	SR2	C-3837
Conducted Emission	SR8	C-13723
Conducted Emission (Telecommunication Port)	SR1	T-1473
Conducted Emission (Telecommunication Port)	SR2	T-1955
Conducted Emission (Telecommunication Port)	SR8	T-11887
Radiated Emission	Site 1	R-2231
Radiated Emission	Site 2	R-2232
Radiated Emission	Site 3	R-2233
Radiated Emission	Site 4	R-2592
Radiated Emission	Site 5	R-2593
Radiated Emission	Site 6	R-2828
Radiated Emission	Site 7	R-3748
Radiated Emission	CB7	R-13107
Radiated Emission	CB8	R-20074
Radiated Emission (Above 1GHz)	CB7(9x6x6_Chamber)	G-10035
Radiated Emission (Above 1GHz)	CB8(9x6x6_Chamber)	G-10947

2.3. Measurement Uncertainty

Impedance Stabilization Network

The measurement uncertainty is evaluated as ± 3.88 dB.

Radiated Emission

The measurement uncertainty is evaluated as ± 4.22 dB.

Radiated Emission Above 1GHz

The measurement uncertainty is evaluated as ± 5.08 dB.

2.4. Test Environment

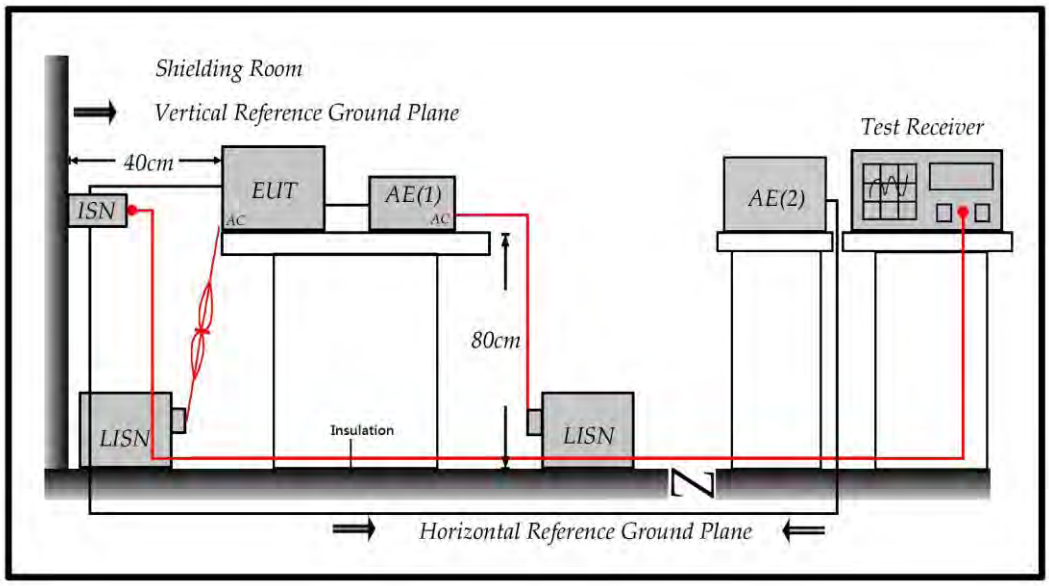
Performed Item	Items	Required	Actual
Impedance Stabilization Network	Temperature (°C)	15-35	29
	Humidity (%RH)	25-75	63
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	29.8
	Humidity (%RH)	25-75	63
	Barometric pressure (mbar)	860-1060	950-1000

3. Conducted Emissions (Telecommunication Ports)

3.1. Test Specification

According to EMC Standard: VCCI CISPR 32

3.2. Test Setup



3.3. Limit

Applicable to
1. wired network ports
2. optical fibre port with metallic shield or tension members
3. antenna ports

Frequency range MHz	Coupling device	Detector type / Bandwidth	Class B voltage limits dB (μV)	Class B current limits dB (μA)
0.15 – 0.5	AAN	Quasi Peak / 9 KHz	84 – 74	N / A
0.5 – 30			74	
0.15 – 0.5	AAN	Average / 9 KHz	74 – 64	
0.5 – 30			64	
0.15 – 0.5	CVP And current probe	Quasi Peak / 9 KHz	84 – 74	40 – 30
0.5 – 30			74	30
0.15 – 0.5	CVP And current probe	Average / 9 KHz	74 – 64	30 – 20
0.5 – 30			64	20
0.15 – 0.5	Current Probe	Quasi Peak / 9 KHz	N / A	40 – 30
0.5 – 30				30
0.15 – 0.5	Current Probe	Average / 9 KHz		30 – 20
0.5 – 30				20

The choice of coupling device and measurement procedure is defined in EN55032:2012 Annex C.
Screened ports including TV broadcast receiver tuner ports are tested with a common-mode impedance of 150 Ω.
This is typically accomplished with the screen terminated by 150 Ω to earth.
AC mains ports that also have the function of a wired network port shall meet the limits given in EN55032:2012+AC 2013 Table A.9.
The test shall cover the entire frequency range.
The application of the voltage and/or current limits is dependent on the measurement procedure used. Refer to EN55032:2012+AC 2013
Table C.1 for applicability.
Testing is required at only one EUT supply voltage and frequency.
Applicable to ports listed above and intended to connect to cables longer than 3 m

Remarks:
The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz~0.50 MHz.

3.4. Test Procedure

Telecommunication Port:

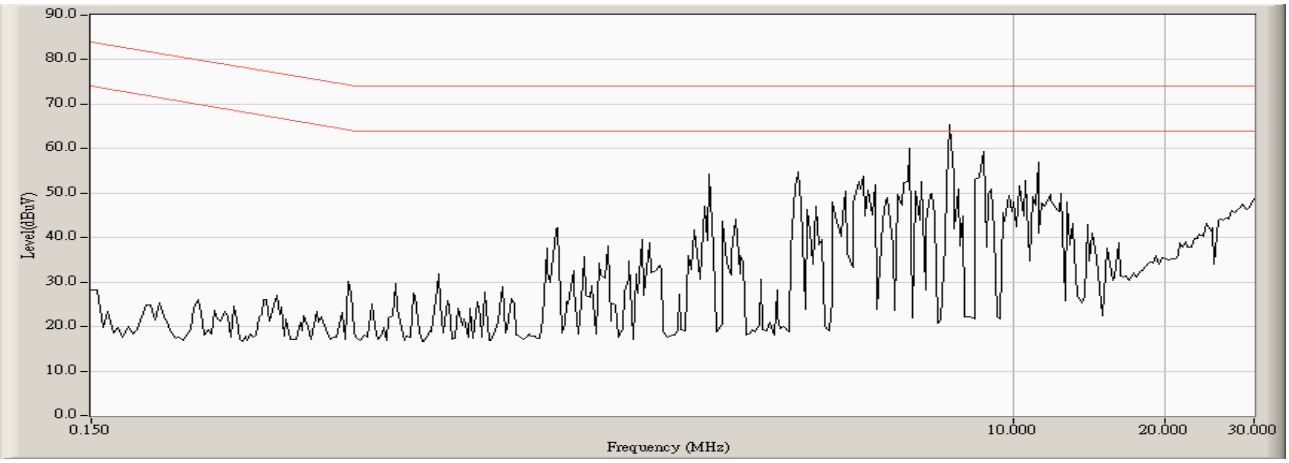
The mains voltage shall be supplied to the EUT via the LISN when the measurement of telecommunication port is performed. The common mode disturbances at the telecommunication port shall be connected to the ISN, which is 150 ohm impedance.
Both alternative cables are tested related to the LCL requested. The measurement range is from 150kHz to 30MHz. The bandwidth of measurement is set to 9kHz.
The 75dB LCL ISN is used for cat. 6 cable, the 65dB LCL ISN is used for cat. 5 cable, 55dB LCL ISN is used for cat. 3.

3.5. Deviation from Test Standard

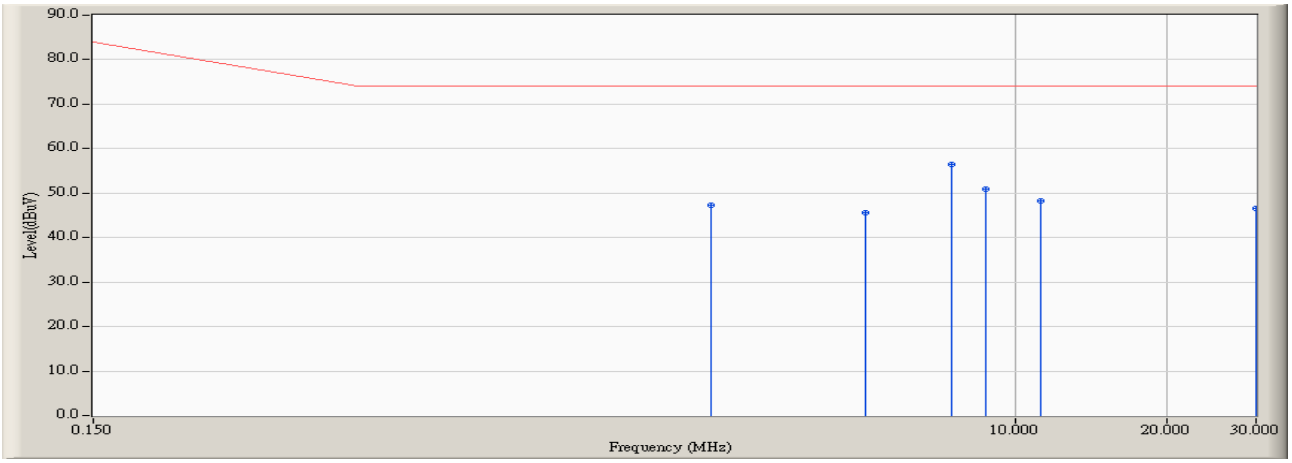
No deviation.

3.6. Test Result

Site : SR1	**Time : 2019/07/01 - 17:06**
Limit : ISN_Voltage_B_00M_QP	**Margin : 10**
EUT : Network Camera	**Probe : TESEQ_T8_30303 - Line1**
Power : POE	**Note : Mode 1, ISN 10M**



Site : SR1	**Time : 2019/07/01 - 17:07**
Limit : ISN_Voltage_B_00M_QP	**Margin : 0**
EUT : Network Camera	**Probe : TESEQ_T8_30303 - Line1**
Power : POE	**Note : Mode 1, ISN 10M**

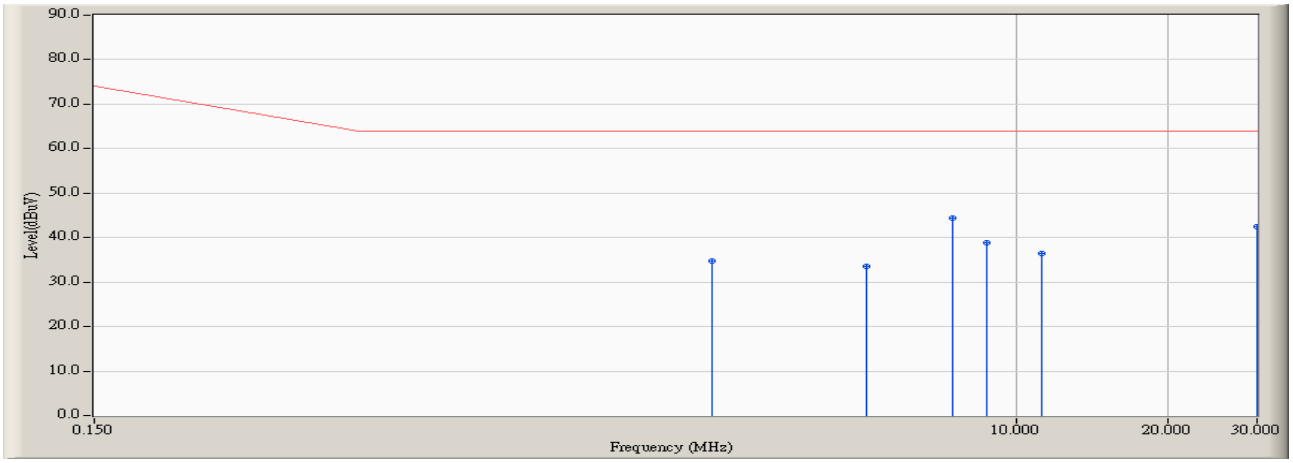


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		2.502	9.669	37.630	47.299	-26.701	74.000	QUASIPEAK
2		5.052	9.685	35.800	45.485	-28.515	74.000	QUASIPEAK
3	*	7.502	9.737	46.710	56.447	-17.553	74.000	QUASIPEAK
4		8.752	9.769	41.060	50.829	-23.171	74.000	QUASIPEAK
5		11.252	9.823	38.420	48.243	-25.757	74.000	QUASIPEAK
6		29.955	10.356	36.320	46.676	-27.324	74.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (Probe+Cable-Amp).

Site : SR1	**Time : 2019/07/01 - 17:07**
Limit : ISN_Voltage_B_00M_AV	**Margin : 0**
EUT : Network Camera	**Probe : TESEQ_T8_30303 - Line1**
Power : POE	**Note : Mode 1, ISN 10M**

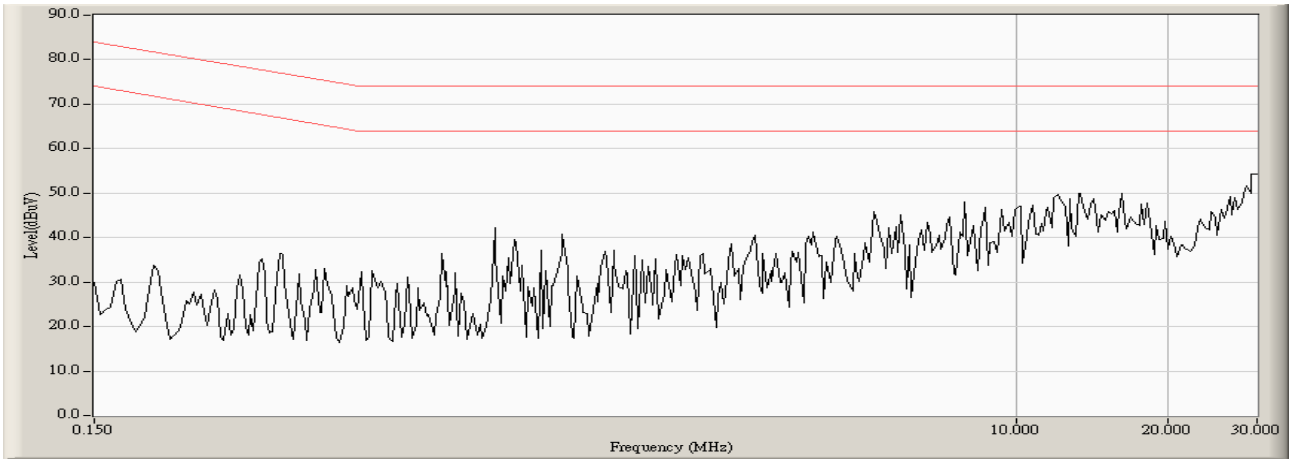


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		2.502	9.669	25.160	34.829	-29.171	64.000	AVERAGE
2		5.052	9.685	23.900	33.585	-30.415	64.000	AVERAGE
3	*	7.502	9.737	34.770	44.507	-19.493	64.000	AVERAGE
4		8.752	9.769	28.960	38.729	-25.271	64.000	AVERAGE
5		11.252	9.823	26.590	36.413	-27.587	64.000	AVERAGE
6		29.955	10.356	32.130	42.486	-21.514	64.000	AVERAGE

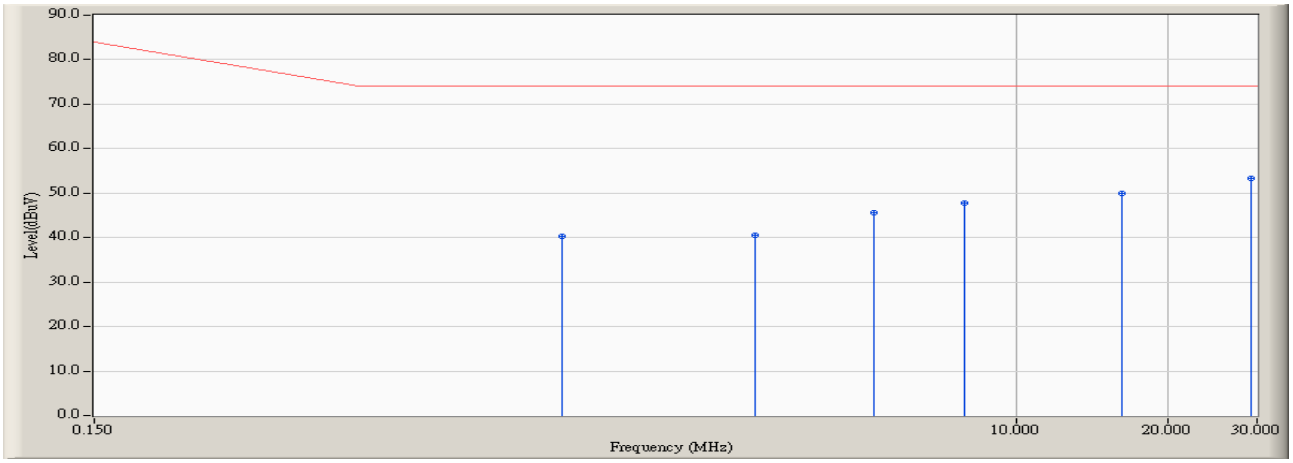
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (Probe+Cable-Amp).

Site : SR1	**Time : 2019/07/01 - 17:09**
Limit : ISN_Voltage_B_00M_QP	**Margin : 10**
EUT : Network Camera	**Probe : TESEQ_T8_30303 - Line1**
Power : POE	**Note : Mode 1, ISN 100M**



Site : SR1	**Time : 2019/07/01 - 17:10**
Limit : ISN_Voltage_B_00M_QP	**Margin : 0**
EUT : Network Camera	**Probe : TESEQ_T8_30303 - Line1**
Power : POE	**Note : Mode 1, ISN 100M**

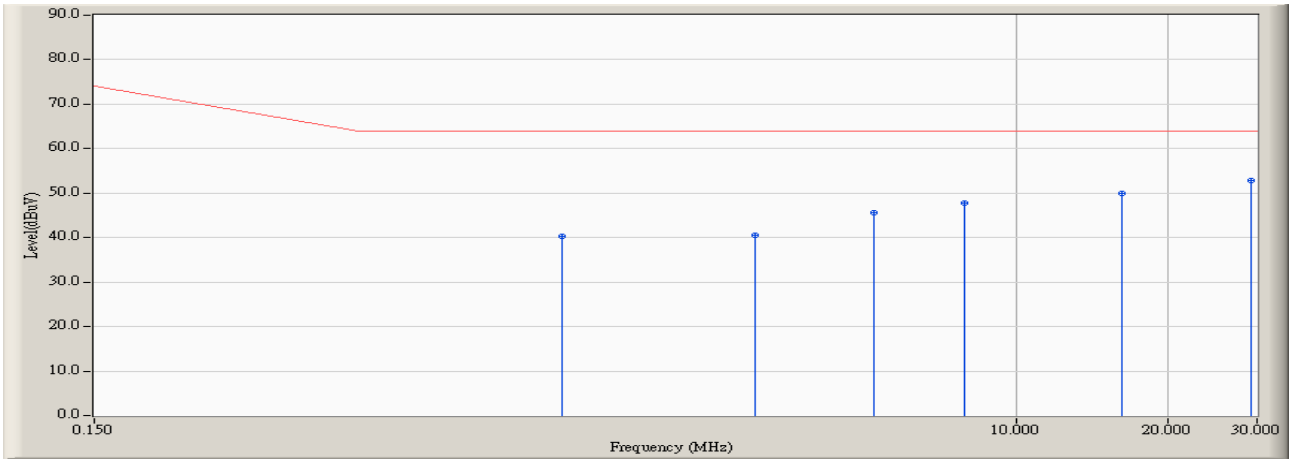


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		1.267	9.673	30.530	40.203	-33.797	74.000	QUASIPEAK
2		3.037	9.669	30.860	40.529	-33.471	74.000	QUASIPEAK
3		5.236	9.689	36.030	45.719	-28.281	74.000	QUASIPEAK
4		7.923	9.740	38.030	47.770	-26.230	74.000	QUASIPEAK
5		16.228	9.941	39.900	49.841	-24.159	74.000	QUASIPEAK
6	*	29.236	10.333	43.090	53.423	-20.577	74.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (Probe+Cable-Amp).

Site : SR1	**Time : 2019/07/01 - 17:10**
Limit : ISN_Voltage_B_00M_AV	**Margin : 0**
EUT : Network Camera	**Probe : TESEQ_T8_30303 - Line1**
Power : POE	**Note : Mode 1, ISN 100M**

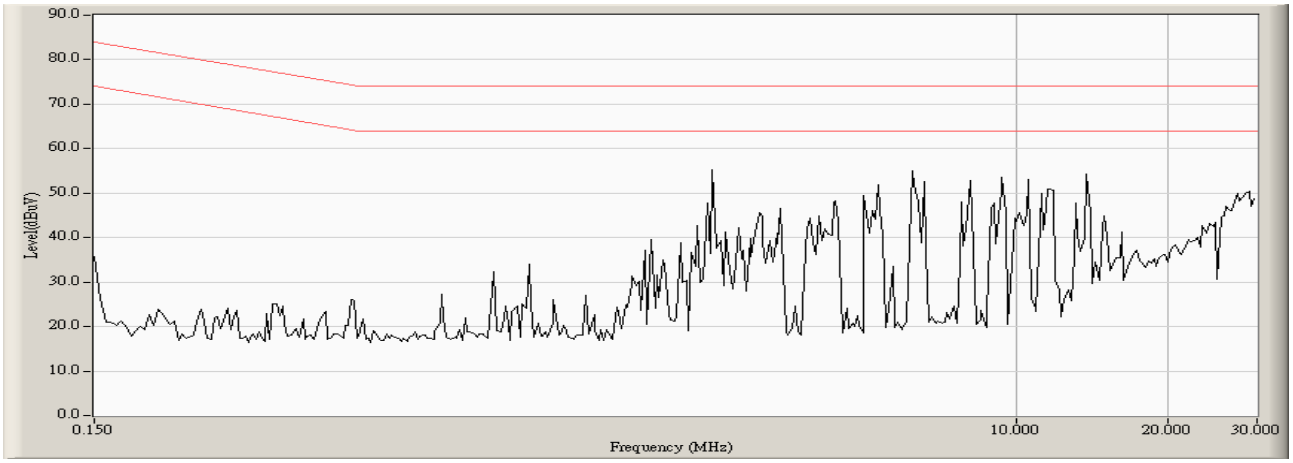


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		1.267	9.673	30.520	40.193	-23.807	64.000	AVERAGE
2		3.037	9.669	30.850	40.519	-23.481	64.000	AVERAGE
3		5.236	9.689	36.020	45.709	-18.291	64.000	AVERAGE
4		7.923	9.740	38.020	47.760	-16.240	64.000	AVERAGE
5		16.228	9.941	39.890	49.831	-14.169	64.000	AVERAGE
6	*	29.236	10.333	42.400	52.733	-11.267	64.000	AVERAGE

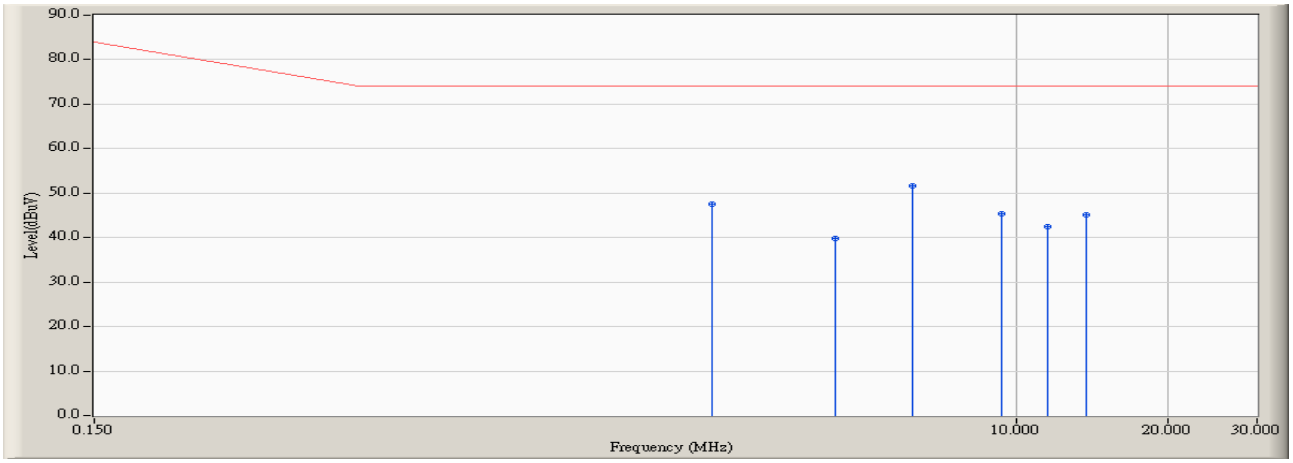
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (Probe+Cable-Amp).

Site : SR1	**Time : 2019/07/01 - 16:56**
Limit : ISN_Voltage_B_00M_QP	**Margin : 10**
EUT : Network Camera	**Probe : TESEQ_T8_30303 - Line1**
Power : POE	**Note : Mode 2, ISN 10M**



Site : SR1	**Time : 2019/07/01 - 16:58**
Limit : ISN_Voltage_B_00M_QP	**Margin : 0**
EUT : Network Camera	**Probe : TESEQ_T8_30303 - Line1**
Power : POE	**Note : Mode 2, ISN 10M**

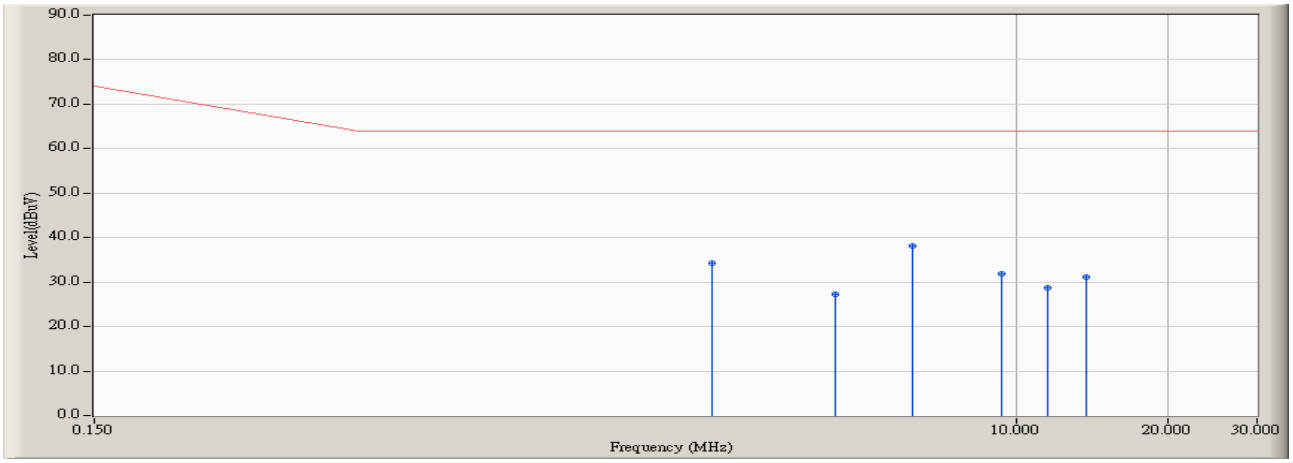


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		2.502	9.669	37.810	47.479	-26.521	74.000	QUASIPEAK
2		4.404	9.680	30.120	39.800	-34.200	74.000	QUASIPEAK
3	*	6.252	9.712	42.010	51.722	-22.278	74.000	QUASIPEAK
4		9.400	9.781	35.520	45.301	-28.699	74.000	QUASIPEAK
5		11.576	9.828	32.610	42.438	-31.562	74.000	QUASIPEAK
6		13.752	9.877	35.250	45.127	-28.873	74.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (Probe+Cable-Amp).

Site : SR1	**Time : 2019/07/01 - 16:58**
Limit : ISN_Voltage_B_00M_AV	**Margin : 0**
EUT : Network Camera	**Probe : TESEQ_T8_30303 - Line1**
Power : POE	**Note : Mode 2, ISN 10M**

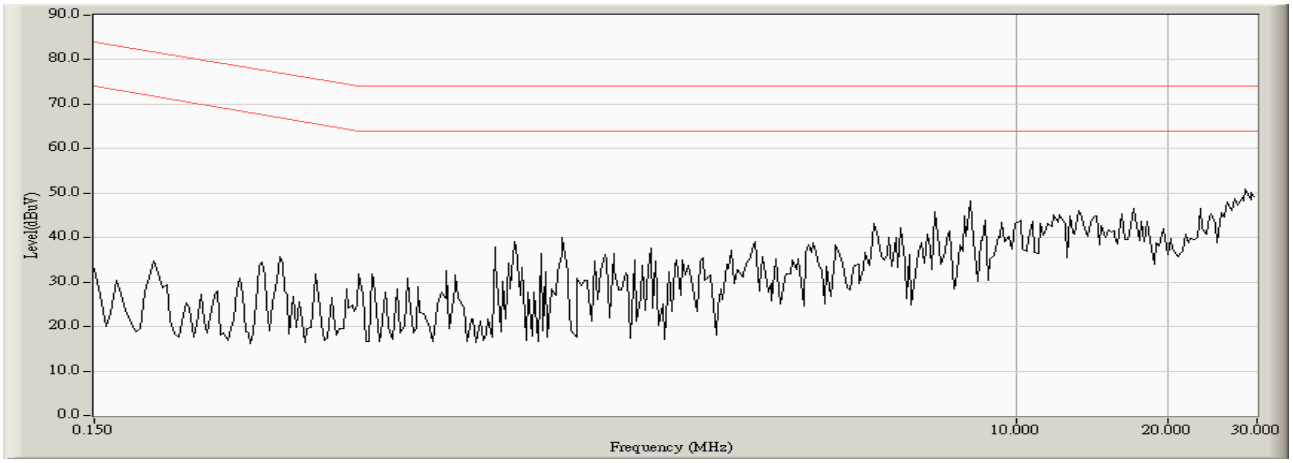


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		2.502	9.669	24.690	34.359	-29.641	64.000	AVERAGE
2		4.404	9.680	17.640	27.320	-36.680	64.000	AVERAGE
3	*	6.252	9.712	28.440	38.152	-25.848	64.000	AVERAGE
4		9.400	9.781	22.130	31.911	-32.089	64.000	AVERAGE
5		11.576	9.828	18.960	28.788	-35.212	64.000	AVERAGE
6		13.752	9.877	21.150	31.027	-32.973	64.000	AVERAGE

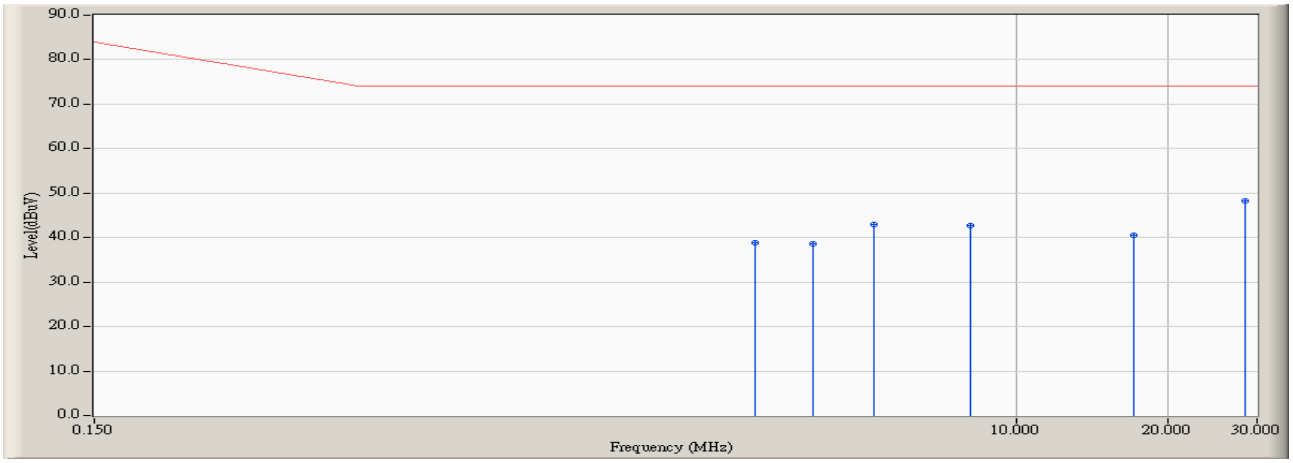
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (Probe+Cable-Amp).

Site : SR1	**Time : 2019/07/01 - 16:58**
Limit : ISN_Voltage_B_00M_QP	**Margin : 10**
EUT : Network Camera	**Probe : TESEQ_T8_30303 - Line1**
Power : POE	**Note : Mode 2, ISN 100M**



Site : SR1	**Time : 2019/07/01 - 16:59**
Limit : ISN_Voltage_B_00M_QP	**Margin : 0**
EUT : Network Camera	**Probe : TESEQ_T8_30303 - Line1**
Power : POE	**Note : Mode 2, ISN 100M**

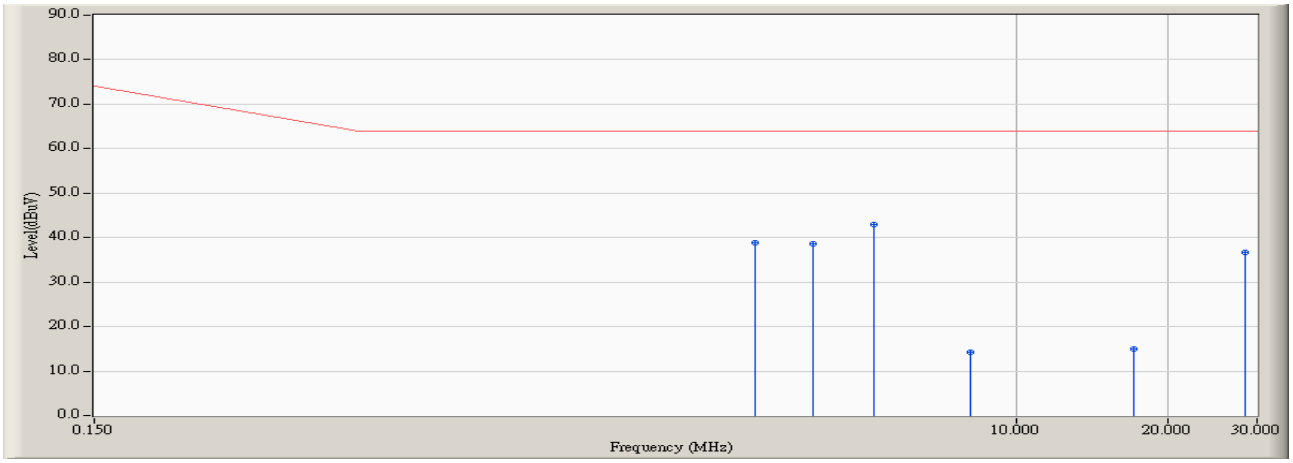


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		3.037	9.669	29.160	38.829	-35.171	74.000	QUASIPEAK
2		3.955	9.670	28.990	38.660	-35.340	74.000	QUASIPEAK
3		5.236	9.689	33.380	43.069	-30.931	74.000	QUASIPEAK
4		8.123	9.744	32.970	42.714	-31.286	74.000	QUASIPEAK
5		17.099	9.953	30.480	40.433	-33.567	74.000	QUASIPEAK
6	*	28.478	10.309	38.040	48.349	-25.651	74.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (Probe+Cable-Amp).

Site : SR1	**Time : 2019/07/01 - 16:59**
Limit : ISN_Voltage_B_00M_AV	**Margin : 0**
EUT : Network Camera	**Probe : TESEQ_T8_30303 - Line1**
Power : POE	**Note : Mode 2, ISN 100M**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		3.037	9.669	29.150	38.819	-25.181	64.000	AVERAGE
2		3.955	9.670	28.980	38.650	-25.350	64.000	AVERAGE
3	*	5.236	9.689	33.370	43.059	-20.941	64.000	AVERAGE
4		8.123	9.744	4.540	14.284	-49.716	64.000	AVERAGE
5		17.099	9.953	5.030	14.983	-49.017	64.000	AVERAGE
6		28.478	10.309	26.450	36.759	-27.241	64.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor (Probe+Cable-Amp).

3.7. Test Photograph

Test Mode : Mode 1: IB9368-HT, POE MODE

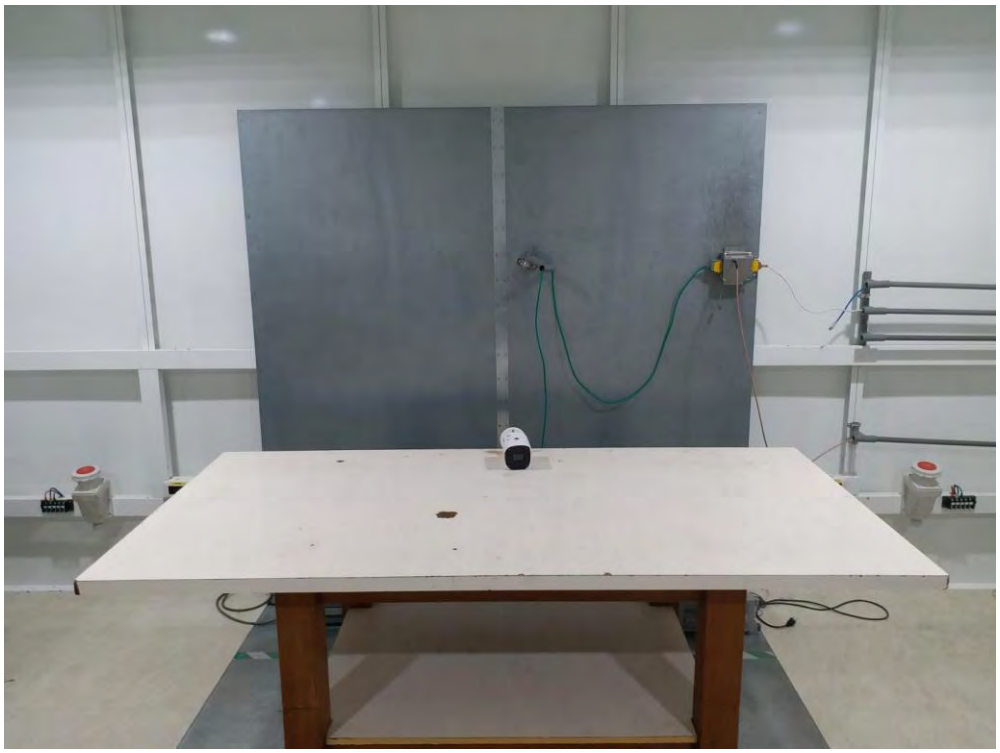
Description : Front View of ISN Test

Test Mode : Mode 1: IB9368-HT, POE MODE

Description : Back View of ISN Test

Test Mode : Mode 2: IB9388-HT, POE MODE

Description : Front View of ISN Test



Test Mode : Mode 2: IB9388-HT, POE MODE

Description : Back View of ISN Test

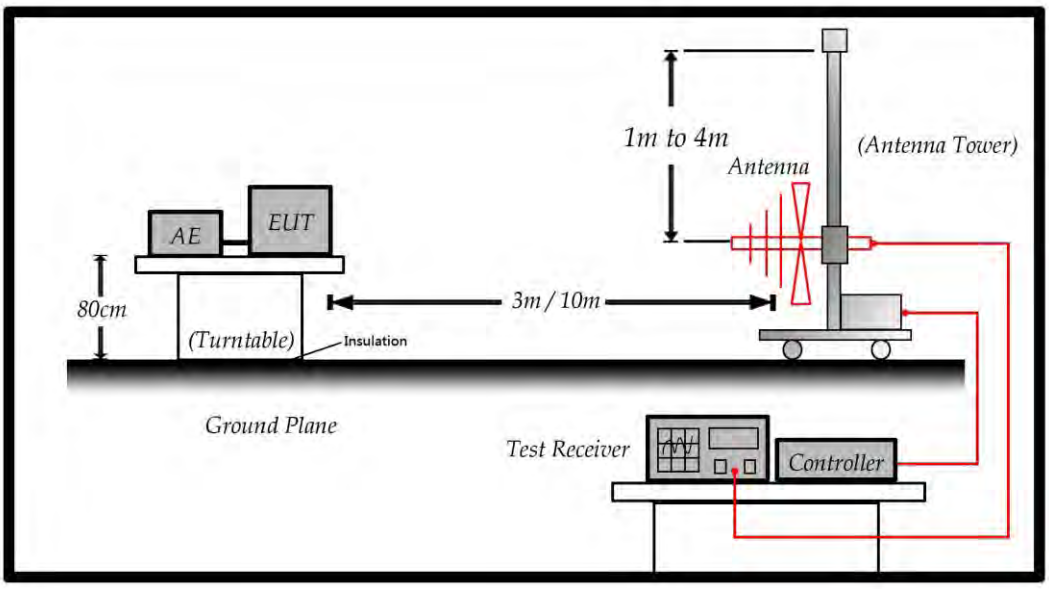
4. Radiated Emission

4.1. Test Specification

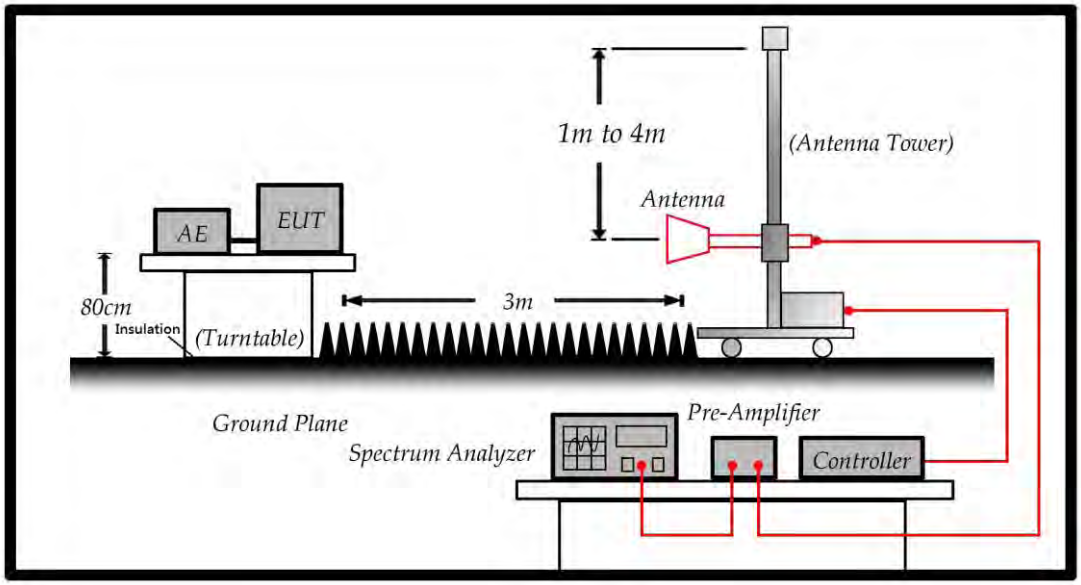
According to EMC Standard: VCCI CISPR 32

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

Radiated emissions at frequencies up to 1 GHz

for Class B equipment

Frequency range MHz	Measurement		Class B limits dB(μV/m)
	Distance m	Detector type/ Bandwidth	OATS / SAC
30-230	10	Quasi Peak / 120 KHz	30
230-1000			37
30-230	3		40
230-1000			47
Apply only 3m or 10m across the entire frequency range			

Radiated emissions at frequencies above 1 GHz

for Class B equipment

Frequency range MHz	Measurement		Class B limits dB(μV/m)
	Distance m	Detector type/ Bandwidth	OATS / SAC
1000-3000	3	Average / 1 MHz	50
3000-6000			54
1000-3000		Peak / 1 MHz	70
3000-6000			74
Both apply across the frequency range from 1000 MHz to the highest required frequency of measurement derived from			

Required highest frequency for radiated measurement

Highest internal frequency (*F*x)	Highest measured frequency
*F*x ≤ 108 MHz	1 GHz
108 MHz < *F*x ≤ 500 MHz	2 GHz
500 MHz < *F*x ≤ 1 GHz	5 GHz
*F*x> 1 GHz	5 × *F*x up to a maximum of 6 GHz
NOTE 1 For FM and TV broadcast receivers, *F*x is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies. NOTE 2 *F*x is defined in 3.1.19.	

4.4. Test Procedure

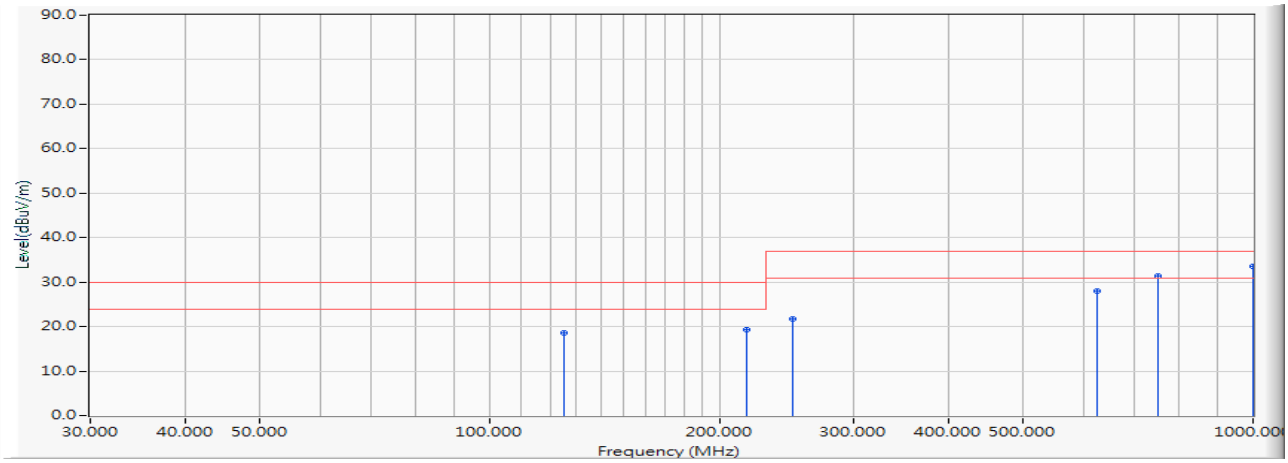
The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3/10 meters. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
All cable leaving the table-top EUT for a connection outsidethe test site (for example, mains cable, telephone lines, connections to auxiliary equipment located outside the test area) shall be fitted with ferrite clamps placed on the floor at the point where the cable reached the floor.
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.
Radiated emissions were invested over the frequency range from 30MHz to1GHz using a receiver bandwidth of 120kHz and above 1GHz using a receiver bandwidth of 1MHz.
30MHz to1GHz Radiated was performed at an antenna to EUT distance of 10 meters.
Above1GHz Radiated was performed at an antenna to EUT distance of 3 meters.

4.5. Deviation from Test Standard

No deviation.

4.6. Test Result

Site : SITE7	**Time : 2019/06/25 - 10:05**
Limit : CISPR_B_10M_QP	**Margin : 6**
EUT : Network Camera	**Probe : Site7_VULB9168_10m_1902 - HORIZONTAL**
Power : POE	**Note : Mode 1**

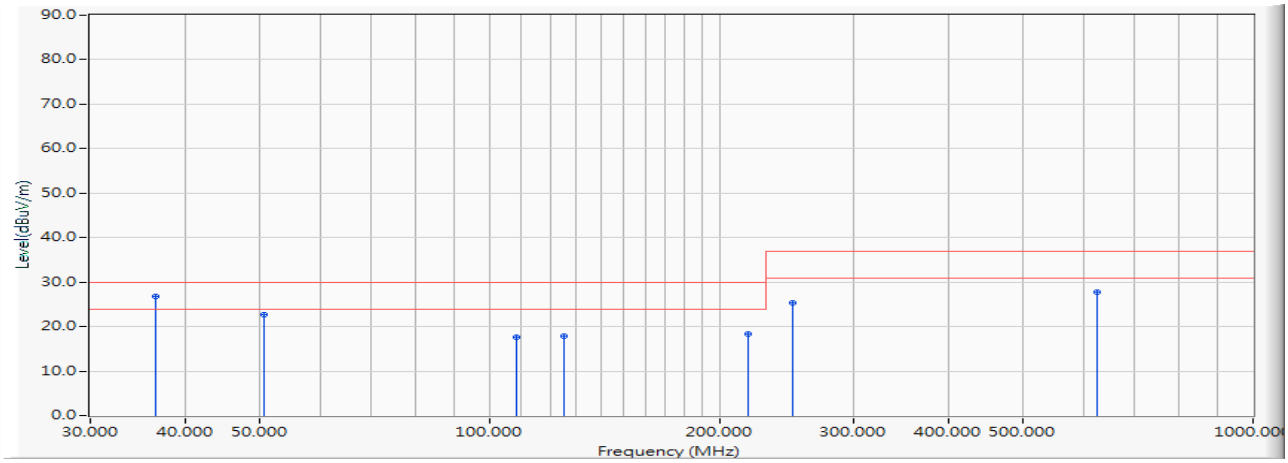


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		125.000	-12.135	30.600	18.465	-11.535	30.000	QUASIPEAK	390.000	-42.000
2		217.600	-12.358	31.600	19.242	-10.758	30.000	QUASIPEAK	390.000	52.000
3		250.000	-10.208	32.000	21.792	-15.208	37.000	QUASIPEAK	360.000	59.000
4		625.000	1.828	26.200	28.028	-8.972	37.000	QUASIPEAK	150.000	37.000
5		750.000	5.049	26.200	31.248	-5.752	37.000	QUASIPEAK	120.000	-38.000
6	*	1000.000	8.360	25.100	33.460	-3.540	37.000	QUASIPEAK	100.000	-48.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor(Probe+Cable-Amp).

Site : SITE7	**Time : 2019/06/25 - 10:05**
Limit : CISPR_B_10M_QP	**Margin : 6**
EUT : Network Camera	**Probe : Site7_VULB9168_10m_1902 - VERTICAL**
Power : POE	**Note : Mode 1**

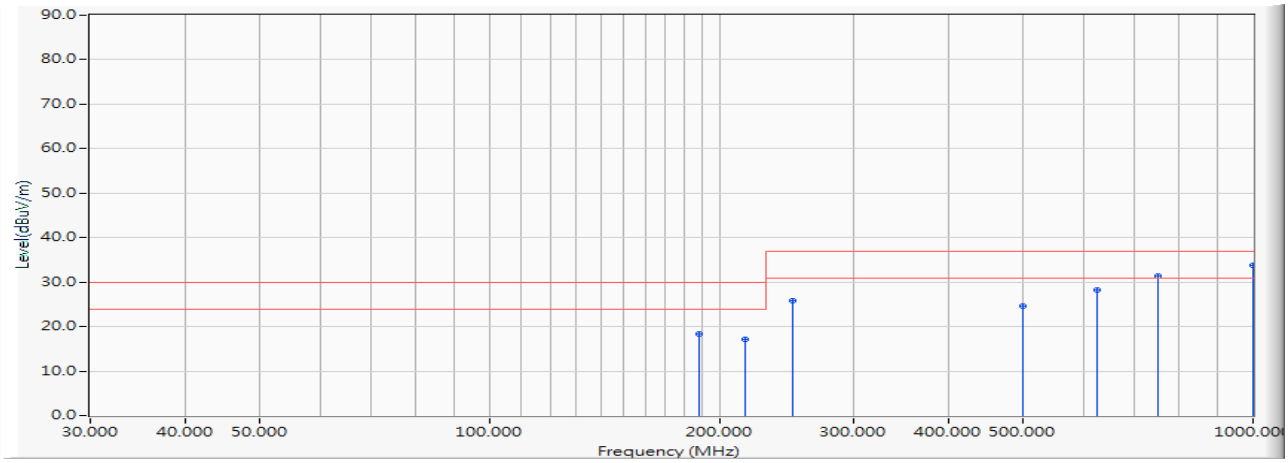


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	36.600	-12.448	39.200	26.752	-3.248	30.000	QUASIPEAK	100.000	52.000
2		50.700	-11.023	33.600	22.576	-7.424	30.000	QUASIPEAK	100.000	98.000
3		108.700	-13.938	31.600	17.661	-12.339	30.000	QUASIPEAK	100.000	94.000
4		125.000	-12.135	29.900	17.765	-12.235	30.000	QUASIPEAK	100.000	61.000
5		218.600	-12.322	30.600	18.277	-11.723	30.000	QUASIPEAK	100.000	-94.000
6		250.000	-10.208	35.600	25.392	-11.608	37.000	QUASIPEAK	100.000	124.000
7		625.000	1.828	25.900	27.728	-9.272	37.000	QUASIPEAK	260.000	51.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor(Probe+Cable-Amp).

Site : SITE7	**Time : 2019/06/25 - 11:19**
Limit : CISPR_B_10M_QP	**Margin : 6**
EUT : Network Camera	**Probe : Site7_VULB9168_10m_1902 - HORIZONTAL**
Power : POE	**Note : Mode 2**

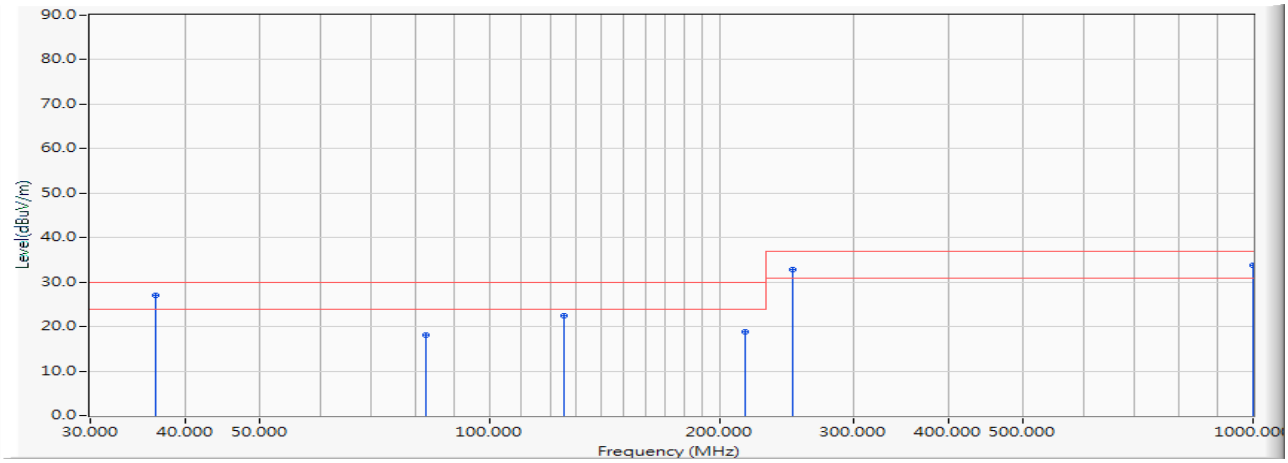


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		188.000	-11.915	30.200	18.285	-11.715	30.000	QUASIPEAK	390.000	-42.000
2		216.000	-12.404	29.600	17.195	-12.805	30.000	QUASIPEAK	380.000	-48.000
3		250.000	-10.208	36.000	25.792	-11.208	37.000	QUASIPEAK	350.000	-47.000
4		500.000	-1.675	26.300	24.625	-12.375	37.000	QUASIPEAK	200.000	34.000
5		625.000	1.828	26.500	28.328	-8.672	37.000	QUASIPEAK	145.000	121.000
6		750.000	5.049	26.200	31.248	-5.752	37.000	QUASIPEAK	120.000	62.000
7	*	1000.000	8.360	25.300	33.660	-3.340	37.000	QUASIPEAK	100.000	128.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor(Probe+Cable-Amp).

Site : SITE7	**Time : 2019/06/25 - 11:19**
Limit : CISPR_B_10M_QP	**Margin : 6**
EUT : Network Camera	**Probe : Site7_VULB9168_10m_1902 - VERTICAL**
Power : POE	**Note : Mode 2**

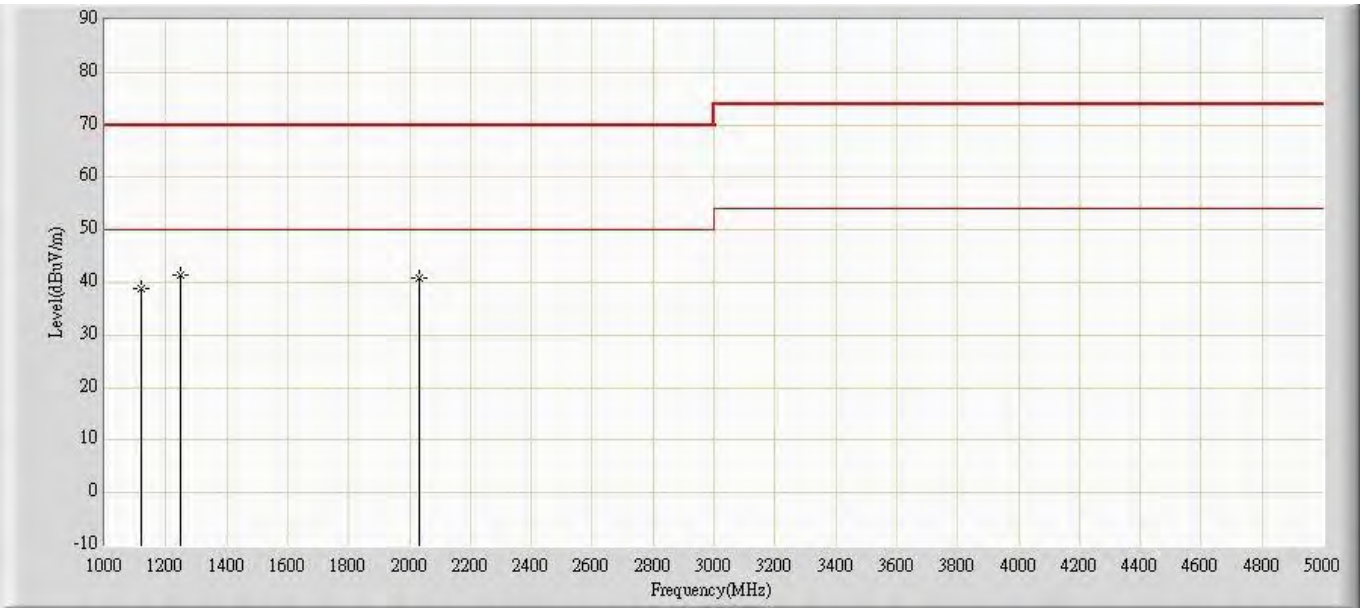


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	36.600	-12.448	39.400	26.952	-3.048	30.000	QUASIPEAK	100.000	39.000
2		82.700	-15.816	34.000	18.184	-11.816	30.000	QUASIPEAK	100.000	97.000
3		125.000	-12.135	34.600	22.465	-7.535	30.000	QUASIPEAK	100.000	-64.000
4		216.000	-12.404	31.200	18.795	-11.205	30.000	QUASIPEAK	100.000	65.000
5		250.000	-10.208	43.000	32.792	-4.208	37.000	QUASIPEAK	100.000	-59.000
6		1000.000	8.360	25.300	33.660	-3.340	37.000	QUASIPEAK	175.000	34.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor(Probe+Cable-Amp).

Site: CB7	Time: 2019/06/29 - 15:30
Limit: CISPR_B(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1808	Polarity: Horizontal
EUT : Network Camera	Power: POE
Note : Mode 1	

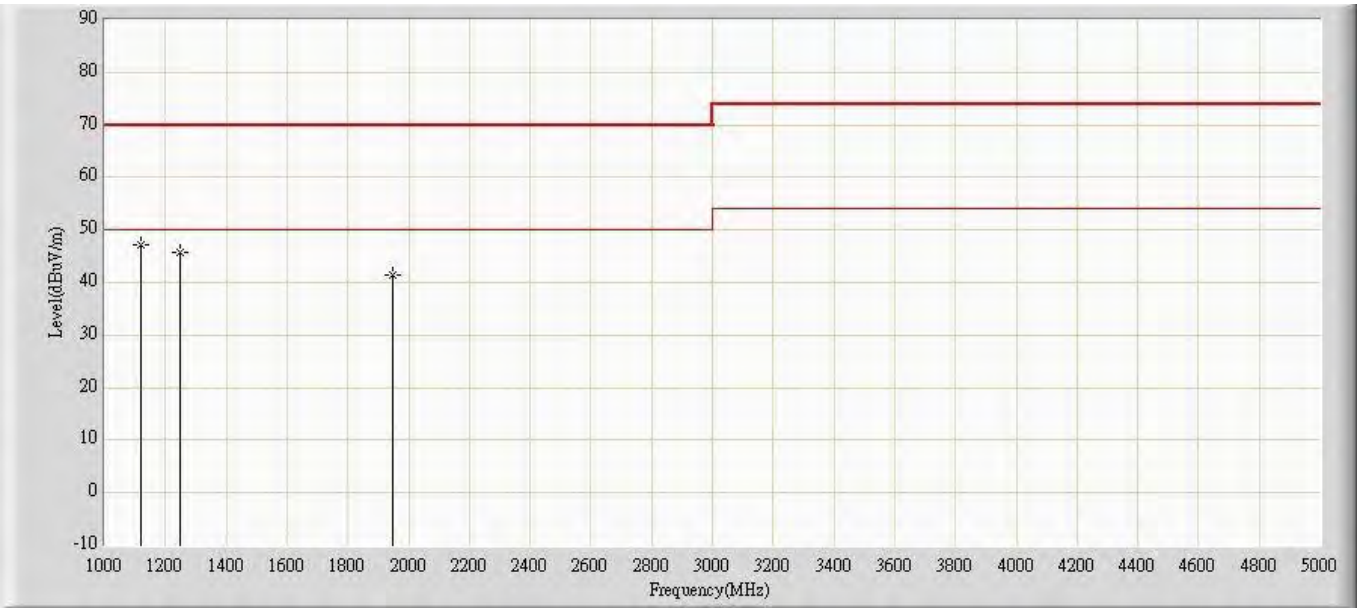


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			1119.000	38.792	53.290	-31.208	70.000	-14.498	100	190	PK
2		*	1248.000	41.365	55.320	-28.635	70.000	-13.955	100	160	PK
3			2030.000	40.794	50.160	-29.206	70.000	-9.366	100	132	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2019/06/29 - 15:33
Limit: CISPR_B(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1808	Polarity: Vertical
EUT : Network Camera	Power: POE
Note : Mode 1	

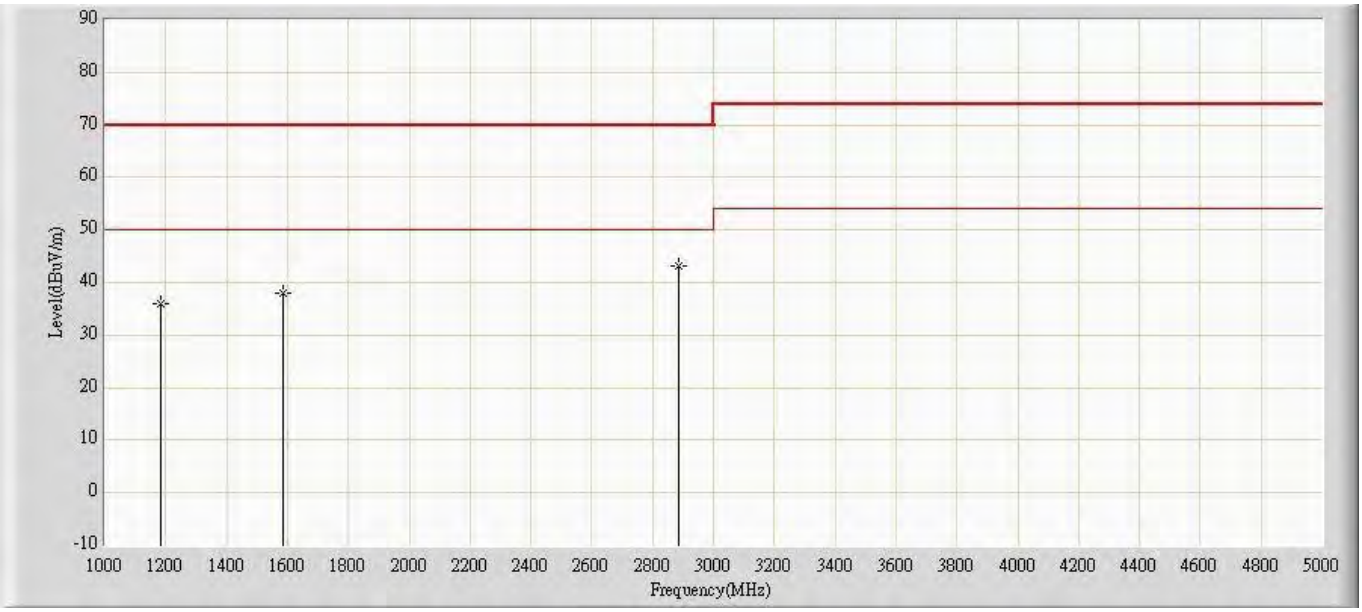


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1		*	1119.000	47.312	61.810	-22.688	70.000	-14.498	100	190	PK
2			1248.000	45.695	59.650	-24.305	70.000	-13.955	100	160	PK
3			1946.000	41.420	51.290	-28.580	70.000	-9.870	100	30	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2019/06/29 - 15:36
Limit: CISPR_B(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1808	Polarity: Horizontal
EUT : Network Camera	Power: POE
Note : Mode 2	

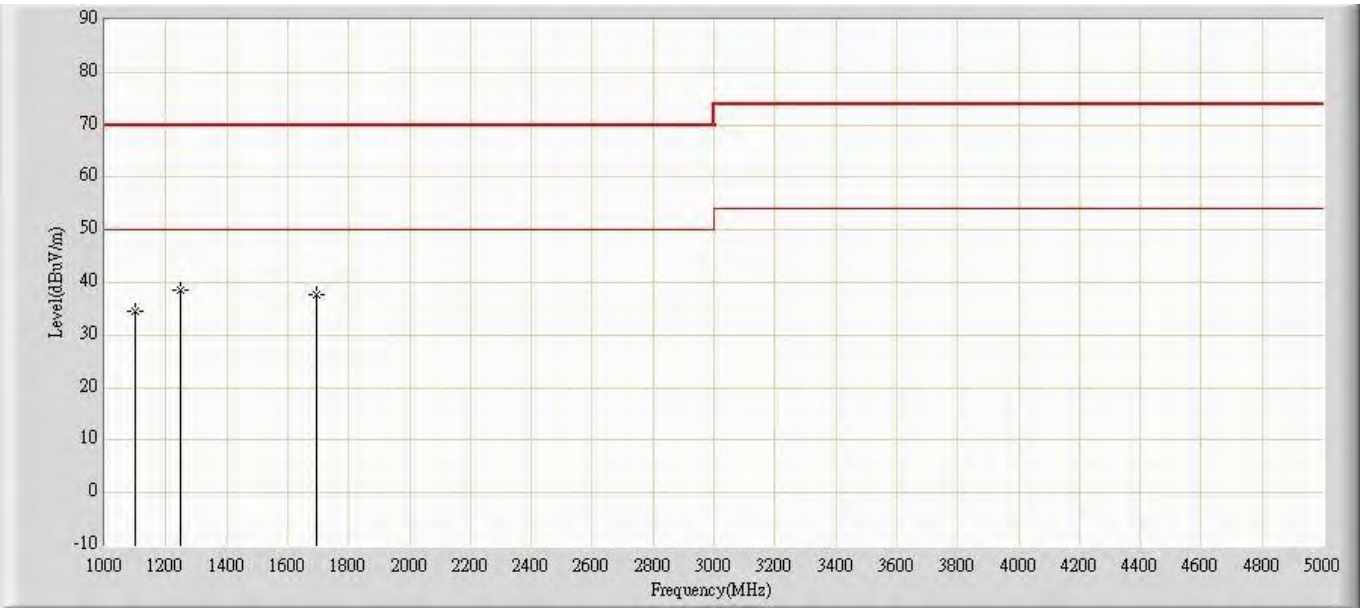


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			1182.000	36.008	50.010	-33.992	70.000	-14.002	100	200	PK
2			1586.000	38.036	51.290	-31.964	70.000	-13.254	100	171	PK
3		*	2888.000	43.092	50.260	-26.908	70.000	-7.168	100	130	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Site: CB7	Time: 2019/06/29 - 15:41
Limit: CISPR_B(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1808	Polarity: Vertical
EUT : Network Camera	Power: POE
Note : Mode 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			1100.000	34.672	49.420	-35.328	70.000	-14.748	100	126	PK
2		*	1248.000	38.425	52.380	-31.575	70.000	-13.955	100	132	PK
3			1696.000	37.592	49.670	-32.408	70.000	-12.078	100	185	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

4.7. Test Photograph

Test Mode : Mode 1: IB9368-HT, POE MODE

Description : Front View of Radiated Test

Test Mode : Mode 1: IB9368-HT, POE MODE

Description : Back View of Radiated Test

Test Mode : Mode 1: IB9368-HT, POE MODE

Description : Front View of High Frequency Radiated Test

Test Mode : Mode 2: IB9388-HT, POE MODE

Description : Front View of Radiated Test

Test Mode : Mode 2: IB9388-HT, POE MODE

Description : Back View of Radiated Test

Test Mode : Mode 2: IB9388-HT, POE MODE

Description : Front View of High Frequency Radiated Test

5. Attachment

➢ EUT Photograph

(1) EUT Photo _IB-9368-HT

(2) EUT Photo

(3) EUT Photo _IB-9388-HT

(4) EUT Photo