

VCCI Test Report

Product Name : Network Camera
Model No. : IB9389-H,IB9389-EH,IB9389-HM,IB9389-EHM,
IB9389-HT,IB9389-EHT

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

Date of Receipt : 2019/04/17
Issued Date : 2019/05/10
Report No. : 1940266R-ITJPP01V00
Report Version : V1.0



The test results relate only to the samples tested.
The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.
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Test Report

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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. : IB9389-H,IB9389-EH,IB9389-HM,IB9389-EHM,
IB9389-HT,IB9389-EHT
EUT Rated Voltage : By PoE
EUT Test Voltage : By PoE
Trade Name : VIVOTEK
Applicable Standard : VCCI CISPR 32: 2016-11, Class A
Test Result : Complied
Performed Location : DEKRA Testing and Certification Co., Ltd.
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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

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1. General Information

1.1. EUT Description

Product Name	Network Camera
Trade Name	VIVOTEK
Model No.	IB9389-H,IB9389-EH,IB9389-HM,IB9389-EHM, IB9389-HT,IB9389-EHT

Note: The different of each model is shown as below

Model	Description	
IB9389-H	fixed	
IB9389-EH	fixed	Wide-Range Temperature
IB9389-HM	manual	
IB9389-EHM	manual	Wide-Range Temperature
IB9389-HT	remote	
IB9389-EHT	remote	Wide-Range Temperature

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: IB9389-HT, PoE Mode	
Final Test Mode	
Emission	Mode 1: IB9389-HT, PoE Mode

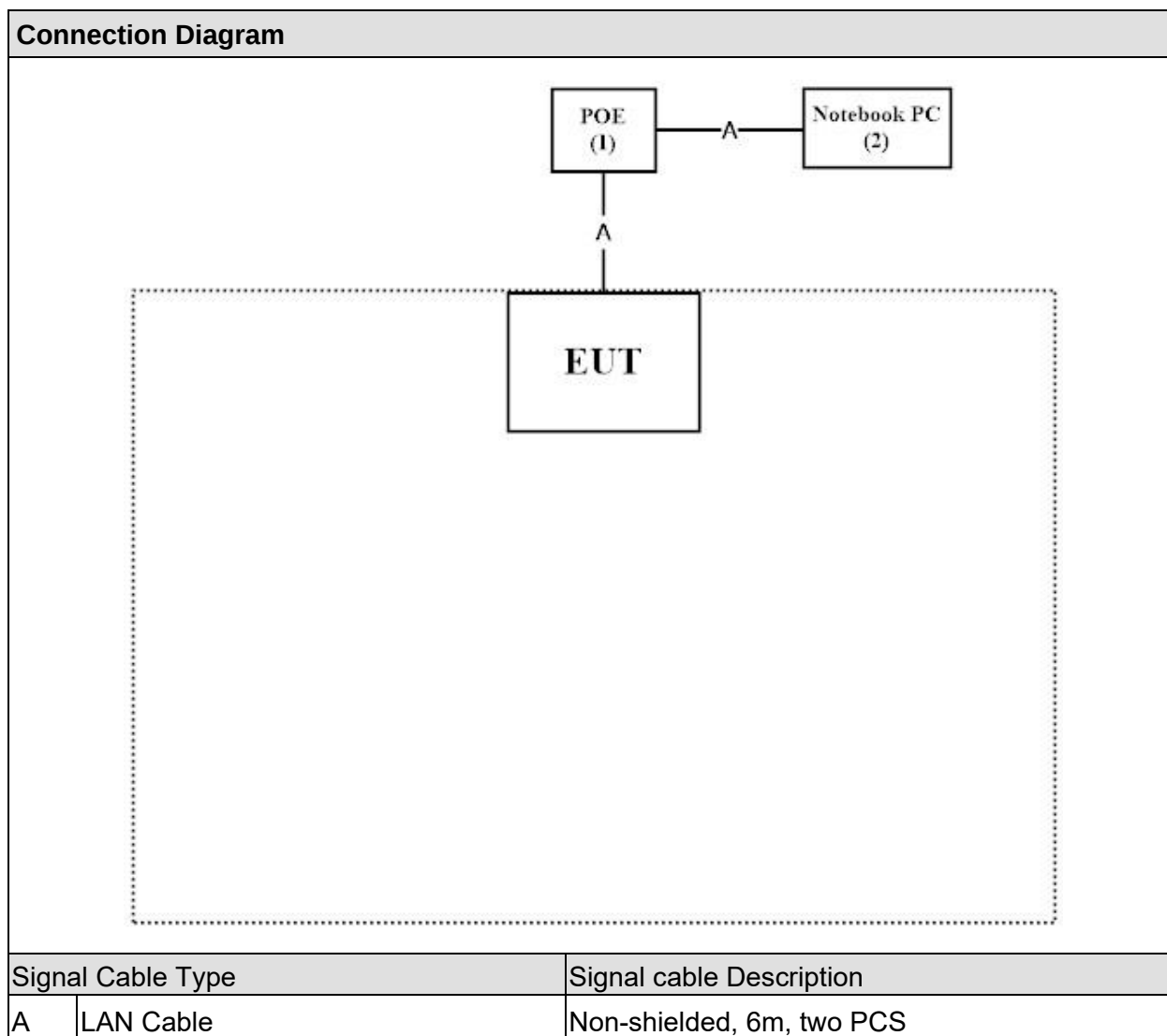
1.3. Tested System Details

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

Test Mode		EMI			
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	POE	N/A	N/A	N/A	Non-Shielded, 1.2m
2	Notebook PC	DELL	PP04X	7607342512	N/A

Test Mode		EMS			
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	POE	N/A	N/A	N/A	Non-Shielded, 1.2m
2	Notebook PC	DELL	D630	00144-023-351-283	N/A

1.4. Configuration of Tested System



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	SD card works while the EUT is recording.
4	Repeat the above procedure (3).

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 A	No	No
Impedance Stabilization Network	VCCI CISPR 32: 2016-11 Class A	Yes	No
Radiated Emission	VCCI CISPR 32: 2016-11 Class A	Yes	No

2.2. List of Test Equipment

Impedance Stabilization Network / SR8

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESCS 30	100369	2018/11/19
LISN	R&S	ENV216	100097	2019/02/18
LISN	R&S	ESH3-Z5	836679/017	2019/02/18
Coaxial Cable	DEKRA	RG 400	LC018-RG	2018/06/21
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
Impedance Stabilization Network	Teseq	ISN T800	42815	2018/07/12

Radiated Emission / Site6

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Broadband Antenna	Schwarzbeck	VULB 9168	0852	2019/02/02
EMI Test Receiver	R&S	ESR3	101973	2018/11/13
Coaxial Cable	DEKRA	RG 214	LC006-RG	2018/06/17
Pre-Amplifier	DEKRA	AP-025C	CHM-0506002	2018/06/17
Coaxial signal switch	Anritsu	MP59B	6201454660	2018/06/17
Site6 NSA	DEKRA	N/A	N/A	2018/06/17

Radiated Emission / CB8

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESR26	101385	2018/07/31
Horn Antenna	ETS-Lindgren	3117	00203761	2018/11/01
Horn Antenna	SCHWARZBECK	9120D	576	2018/12/18
Pre-Amplifier	EMCI	EMC012630SE	980210	2019/04/16
CB8 VSWR	DEKRA	N/A	N/A	2018/05/28

VCCI Test Site:

Test Item	Test Site	VCCI No.
Conducted Emission (Telecommunication Port)	SR8	T-1887
Radiated Emission	Site 6	R-2828
Radiated Emission (Above 1GHz)	CB8(9x6x6_Chamber)	G-947

2.3. Measurement Uncertainty

Impedance Stabilization Network

The measurement uncertainty is evaluated as ± 3.88 dB.

Radiated Emission(Under 1GHz)

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

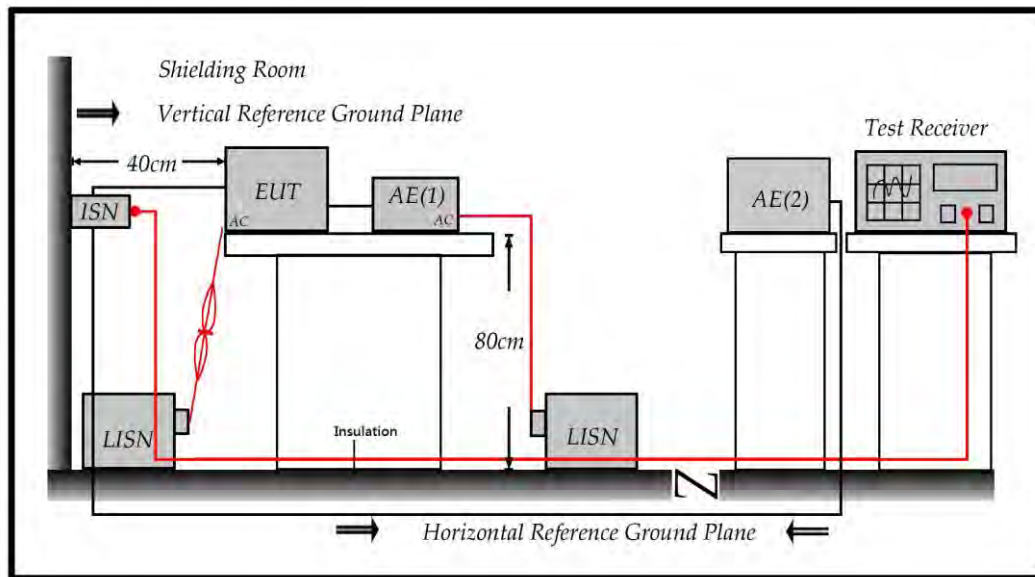
Performed Item	Items	Required	Actual
Impedance Stabilization Network	Temperature (°C)	15-35	20
	Humidity (%RH)	25-75	51
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	26.7
	Humidity (%RH)	25-75	65
	Barometric pressure (mbar)	860-1060	950-1000

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 A voltage limits dB(μV)	Class A current limits dB(μA)
0.15 – 0.5	AAN	Quasi Peak / 9 KHz	97 – 87	N / A
0.5 – 30			87	
0.15 – 0.5	AAN	Average / 9 KHz	84 – 74	
0.5 – 30			74	
0.15 – 0.5	CVP And current probe	Quasi Peak / 9 KHz	97 – 87	53 – 43
0.5 – 30			87	43
0.15 – 0.5	CVP And current probe	Average / 9 KHz	84 – 74	40 – 30
0.5 – 30			74	30
0.15 – 0.5	Current Probe	Quasi Peak / 9 KHz	N / A	53 – 43
0.5 – 30				43
0.15 – 0.5	Current Probe	Average / 9 KHz		40 – 30
0.5 – 30				30

The choice of coupling device and measurement procedure is defined in Annex C.

AC mains ports that also have the function of a wired network port shall meet the limits given in Table A.9.

The measurement shall cover the entire frequency range.

The application of the voltage and/or current limits is dependent on the measurement procedure used. Refer to Table C.1 of CISPR 32 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.

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.

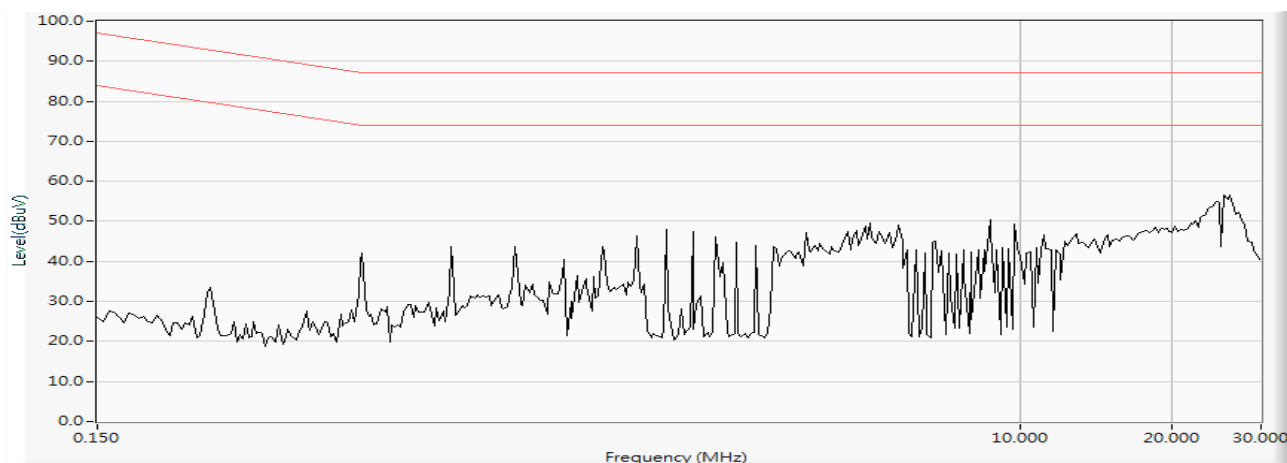
The 75dB LCL ISN is used for cat. 6 cable, the 65dB LCL ISN is used for cat. 5 cable, 55dB LCL ISN is used for cat. 3.

3.5. Deviation from Test Standard

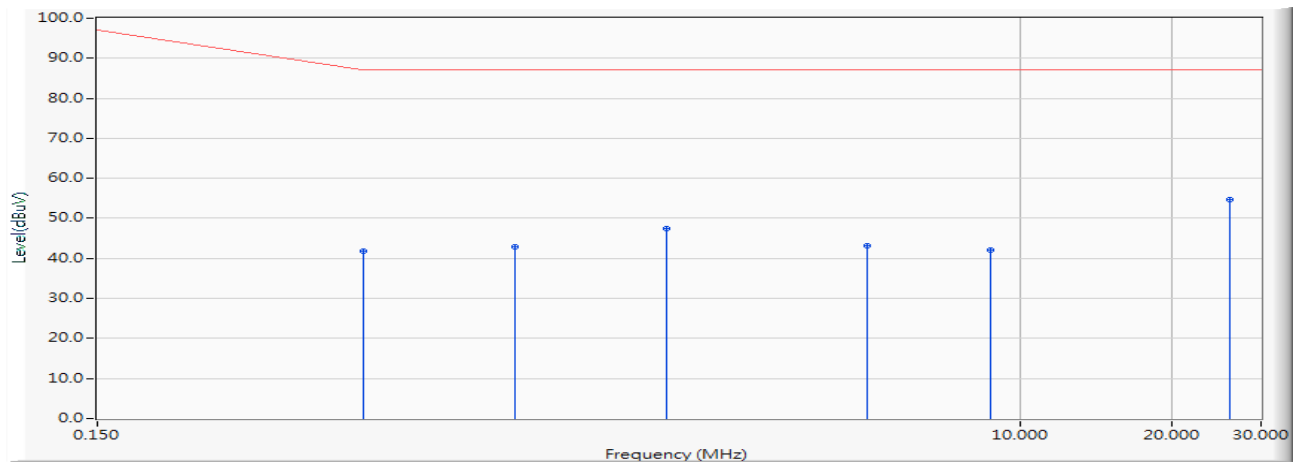
No deviation.

3.6. Test Result

Site : SR8	Time : 2019/04/22 - 17:12
Limit : ISN_Voltage_A_00M_QP	Margin : 13
EUT : Network Camera	Probe : TESEQ_T8_42815 - Line1
Power : PoE	Note : Mode 1, ISN 10M



Site : SR8	Time : 2019/04/22 - 17:13
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : Network Camera	Probe : TESEQ_T8_42815 - Line1
Power : PoE	Note : Mode 1, ISN 10M

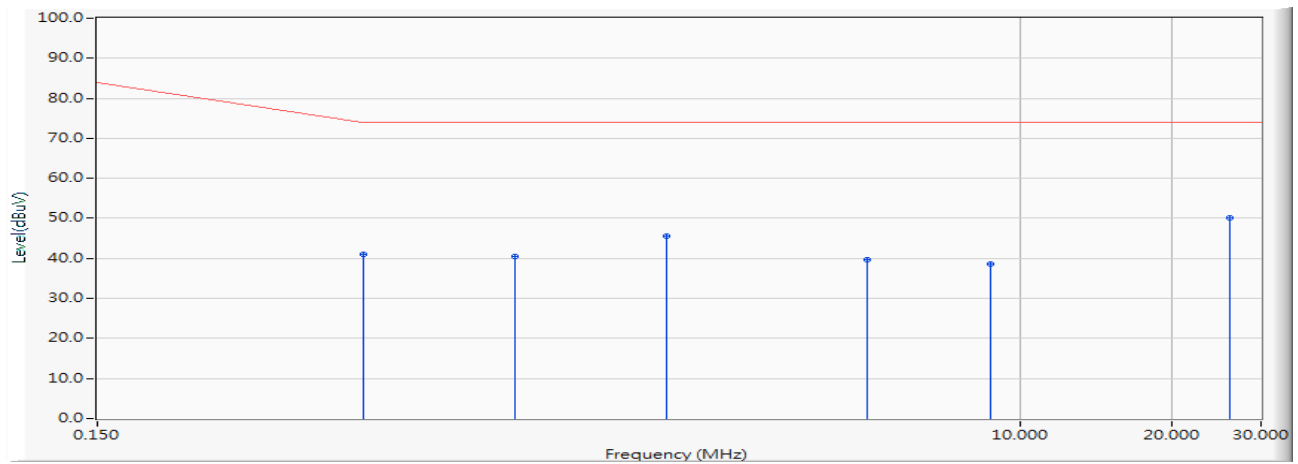


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.502	10.012	31.840	41.852	-45.148	87.000	QUASIPeAK
2		1.002	9.931	32.860	42.791	-44.209	87.000	QUASIPeAK
3		2.004	9.902	37.480	47.382	-39.618	87.000	QUASIPeAK
4		5.009	9.914	33.140	43.054	-43.946	87.000	QUASIPeAK
5		8.767	9.999	31.960	41.959	-45.041	87.000	QUASIPeAK
6	*	26.048	10.505	44.200	54.705	-32.295	87.000	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 : SR8	Time : 2019/04/22 - 17:13
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : Network Camera	Probe : TESEQ_T8_42815 - Line1
Power : PoE	Note : Mode 1, ISN 10M

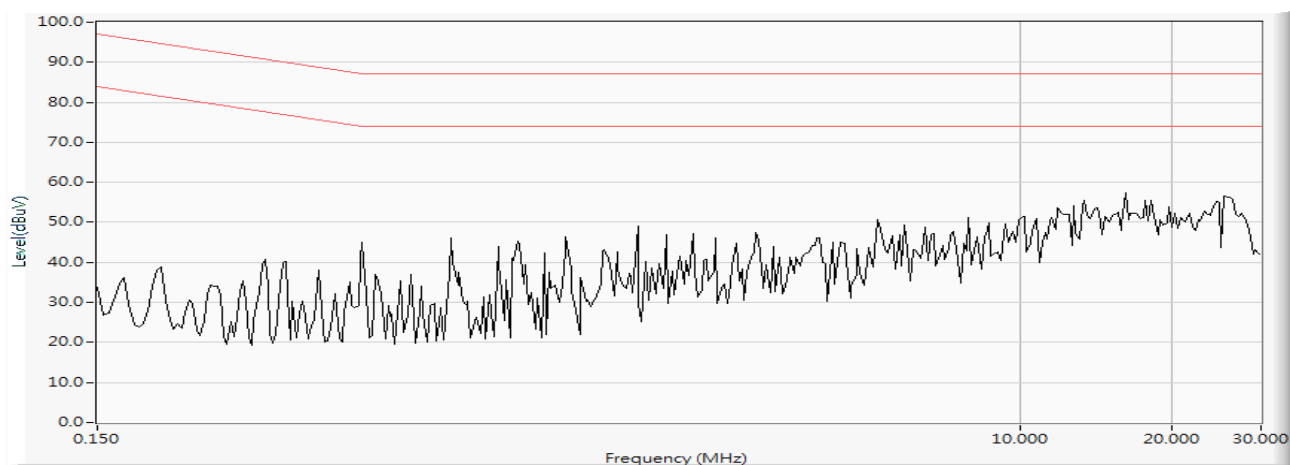


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.502	10.012	31.080	41.092	-32.908	74.000	AVERAGE
2		1.002	9.931	30.640	40.571	-33.429	74.000	AVERAGE
3		2.004	9.902	35.800	45.702	-28.298	74.000	AVERAGE
4		5.009	9.914	29.820	39.734	-34.266	74.000	AVERAGE
5		8.767	9.999	28.700	38.699	-35.301	74.000	AVERAGE
6	*	26.048	10.505	39.660	50.165	-23.835	74.000	AVERAGE

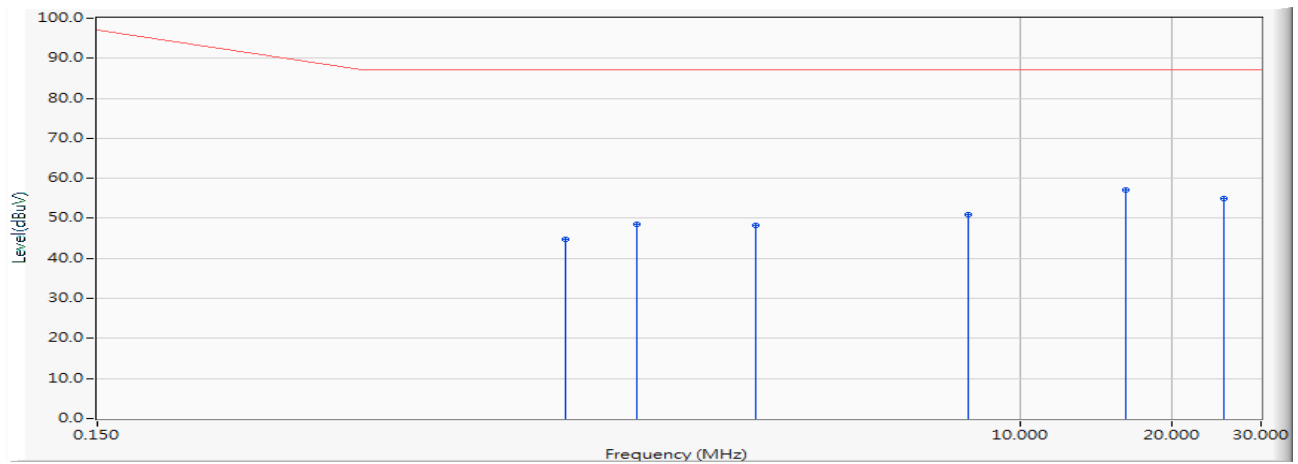
Note:

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 : SR8	Time : 2019/04/22 - 17:08
Limit : ISN_Voltage_A_00M_QP	Margin : 13
EUT : Network Camera	Probe : TESEQ_T8_42815 - Line1
Power : PoE	Note : Mode 1, ISN 100M



Site : SR8	Time : 2019/04/22 - 17:09
Limit : ISN_Voltage_A_00M_QP	Margin : 0
EUT : Network Camera	Probe : TESEQ_T8_42815 - Line1
Power : PoE	Note : Mode 1, ISN 100M

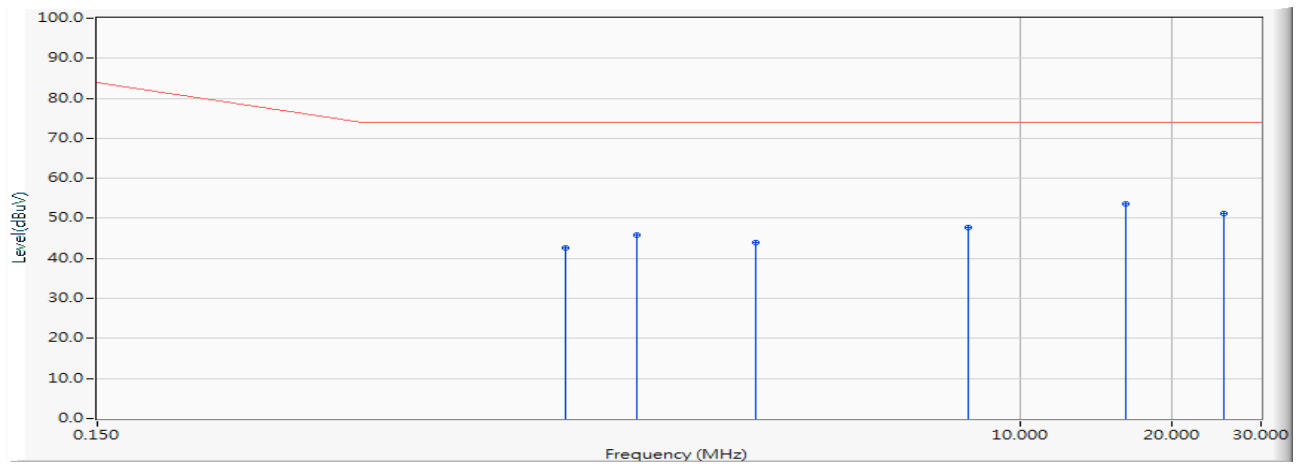


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		1.268	9.922	34.900	44.822	-42.178	87.000	QUASIPeAK
2		1.754	9.911	38.640	48.551	-38.449	87.000	QUASIPeAK
3		3.007	9.898	38.420	48.318	-38.682	87.000	QUASIPeAK
4		7.923	9.980	40.920	50.900	-36.100	87.000	QUASIPeAK
5	*	16.228	10.191	46.860	57.051	-29.949	87.000	QUASIPeAK
6		25.301	10.475	44.420	54.895	-32.105	87.000	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 : SR8	Time : 2019/04/22 - 17:09
Limit : ISN_Voltage_A_00M_AV	Margin : 0
EUT : Network Camera	Probe : TESEQ_T8_42815 - 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		1.268	9.922	32.640	42.562	-31.438	74.000	AVERAGE
2		1.754	9.911	35.900	45.811	-28.189	74.000	AVERAGE
3		3.007	9.898	34.040	43.938	-30.062	74.000	AVERAGE
4		7.923	9.980	37.700	47.680	-26.320	74.000	AVERAGE
5	*	16.228	10.191	43.540	53.731	-20.269	74.000	AVERAGE
6		25.301	10.475	40.760	51.235	-22.765	74.000	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: IB9389-HT, PoE Mode

Description : Front View of ISN Test



Test Mode : Mode 1: IB9389-HT, PoE Mode

Description : Back View of ISN Test



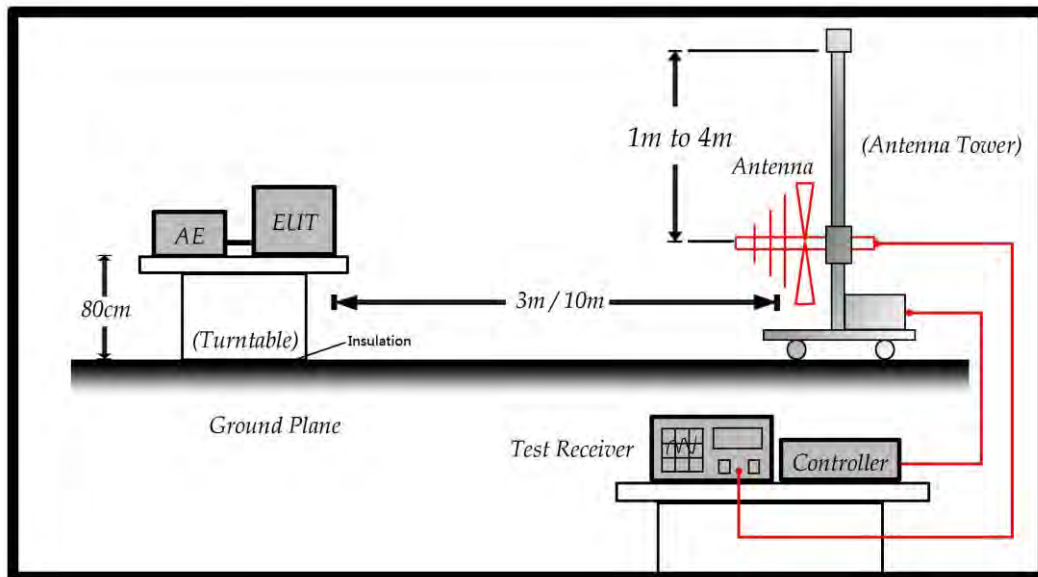
4. Radiated Emission

4.1. Test Specification

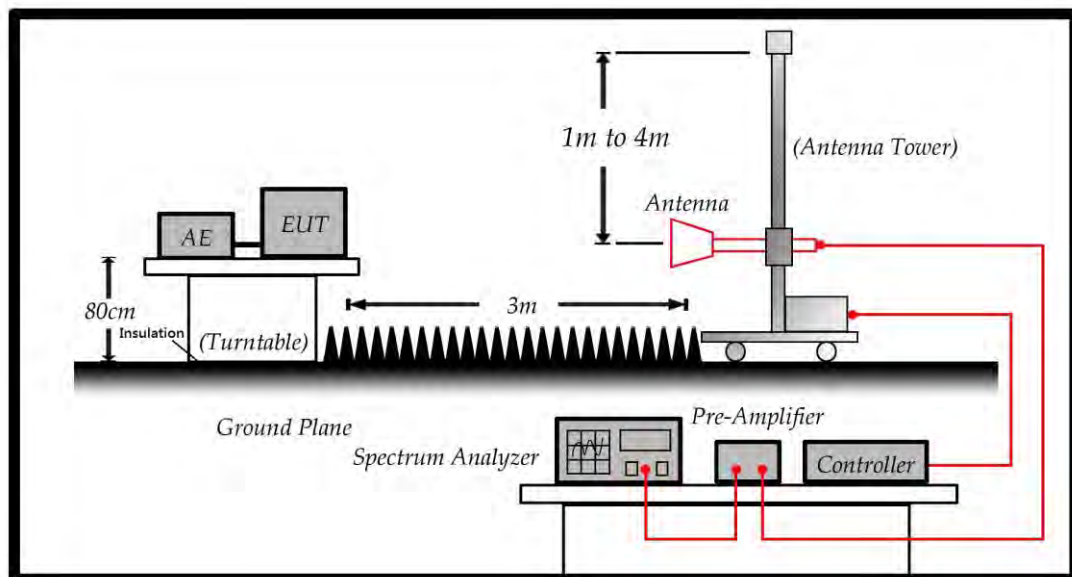
According to EMC Standard: VCCI CISPR 32

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 A equipment

Frequency range MHz	Measurement		Class A limits dB(μV/m)
	Distance m	Detector type/ Bandwidth	OATS / SAC
30-230	10	Quasi Peak / 120 KHz	40
230-1000			47
30-230	3		50
230-1000			57
Apply only 3m or 10m across the entire frequency range			

Radiated emissions at frequencies above 1 GHz

for Class A equipment

Frequency range MHz	Measurement		Class A limits dB(μV/m)
	Distance m	Detector type/ Bandwidth	OATS / SAC
1000-3000	3	Average / 1 MHz	56
3000-6000			60
1000-3000		Peak / 1 MHz	76
3000-6000			80
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
$F_x \leq 108 \text{ MHz}$	1 GHz
$108 \text{ MHz} < F_x \leq 500 \text{ MHz}$	2 GHz
$500 \text{ MHz} < F_x \leq 1 \text{ GHz}$	5 GHz
$F_x > 1 \text{ GHz}$	$5 \times F_x$ 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 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 outside the 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 according to VCCI on radiated measurement.

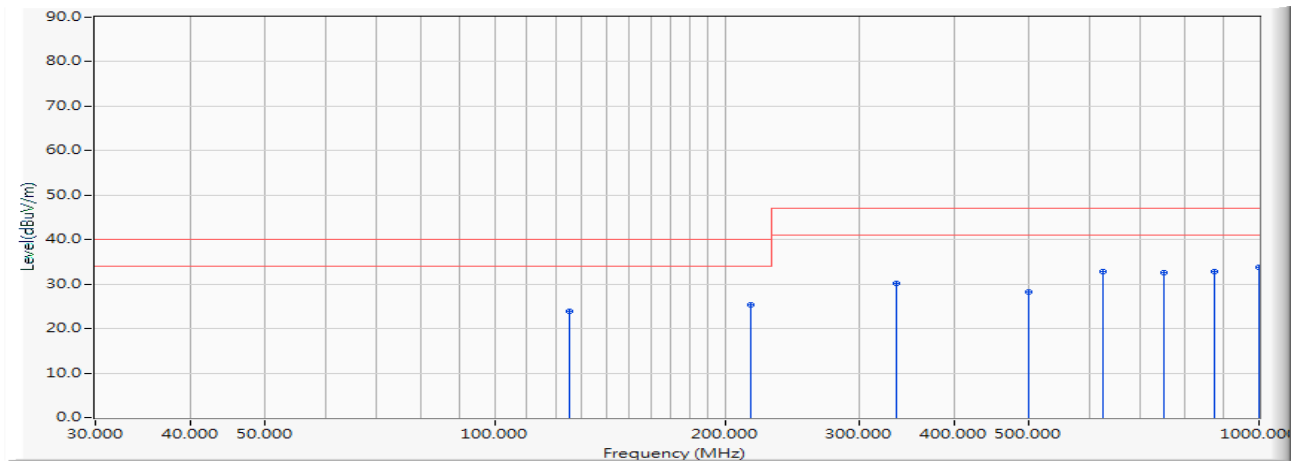
Radiated emissions were investigated over the frequency range from 30MHz to 1GHz using a receiver bandwidth of 120kHz. Radiated was performed at an antenna to EUT distance of 10 meters.

4.5. Deviation from Test Standard

No deviation.

4.6. Test Result

Site : Site6	Time : 2019/04/19 - 14:05
Limit : CISPR_A_10M_QP	Margin : 6
EUT : Network Camera	Probe : Site6_VULB9168_10m_1902 - HORIZONTAL
Power : By POE	Note : Mode 1

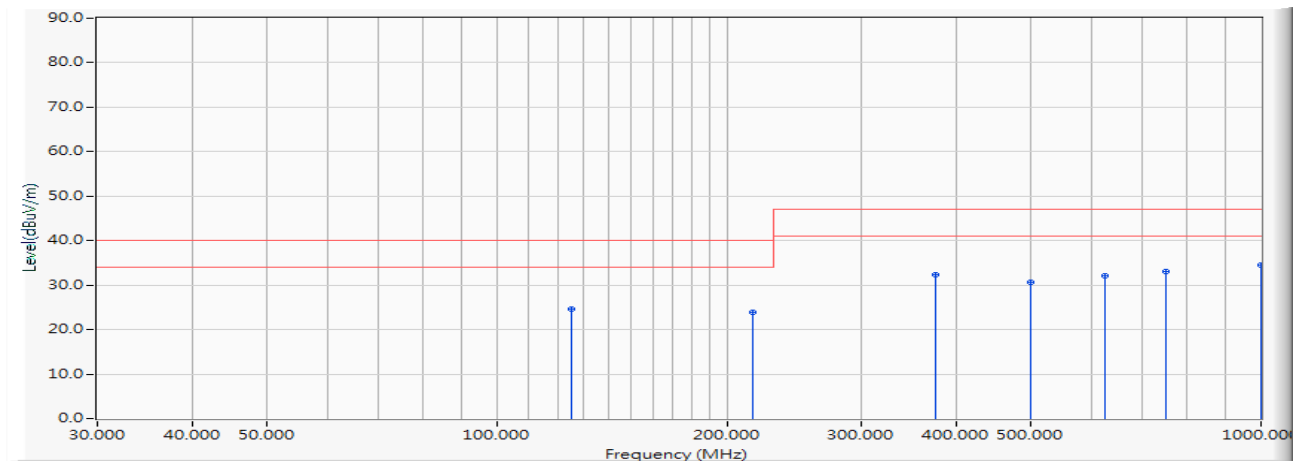


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		125.000	-12.267	36.200	23.934	-16.066	40.000	QUASIPeAK	400.000	159.000
2		216.000	-12.854	38.300	25.445	-14.555	40.000	QUASIPeAK	400.000	21.000
3		336.000	-7.116	37.200	30.084	-16.916	47.000	QUASIPeAK	221.000	58.000
4		500.000	-1.999	30.200	28.201	-18.799	47.000	QUASIPeAK	203.000	22.000
5		625.000	1.532	31.200	32.732	-14.268	47.000	QUASIPeAK	150.000	108.000
6		750.000	4.551	28.100	32.651	-14.349	47.000	QUASIPeAK	100.000	49.000
7		875.000	6.292	26.600	32.893	-14.107	47.000	QUASIPeAK	100.000	49.000
8	*	1000.000	8.220	25.500	33.720	-13.280	47.000	QUASIPeAK	100.000	-66.000

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 : Site6	Time : 2019/04/19 - 13:39
Limit : CISPR_A_10M_QP	Margin : 6
EUT : Network Camera	Probe : Site6_VULB9168_10m_1902 - VERTICAL
Power : By POE	Note : Mode 1

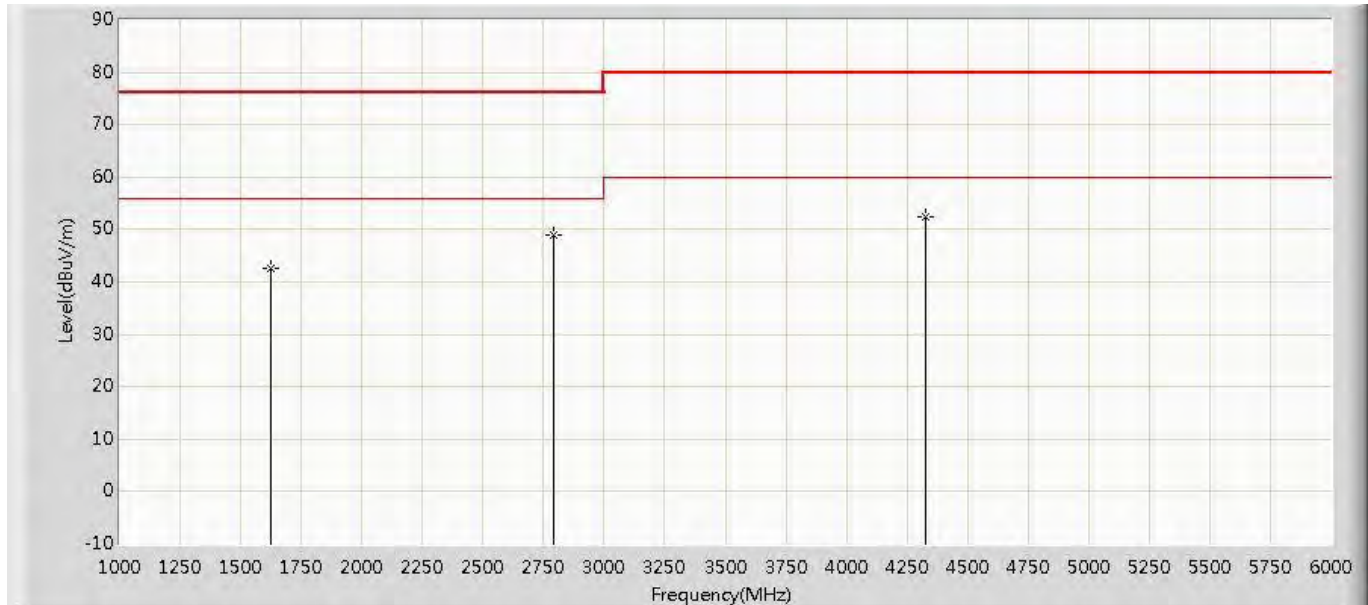


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	125.000	-12.267	36.800	24.534	-15.466	40.000	QUASIPeAK	100.000	96.000
2	216.000	-12.854	36.800	23.945	-16.055	40.000	QUASIPeAK	100.000	96.000
3	375.000	-5.846	38.200	32.354	-14.646	47.000	QUASIPeAK	100.000	92.000
4	500.000	-1.999	32.600	30.601	-16.399	47.000	QUASIPeAK	261.000	19.000
5	625.000	1.532	30.500	32.032	-14.968	47.000	QUASIPeAK	261.000	19.000
6	750.000	4.551	28.600	33.151	-13.849	47.000	QUASIPeAK	221.000	130.000
7	* 1000.000	8.220	26.200	34.420	-12.580	47.000	QUASIPeAK	163.000	27.000

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: CB8	Time: 2019/04/19 - 20:02
Limit: VCCI32_A_(Above_1G)	Margin: 0
Probe: CB8_Horn_3117_1805	Polarity: Horizontal
EUT: Network Camera	Power: By POE
Note: Mode 1	

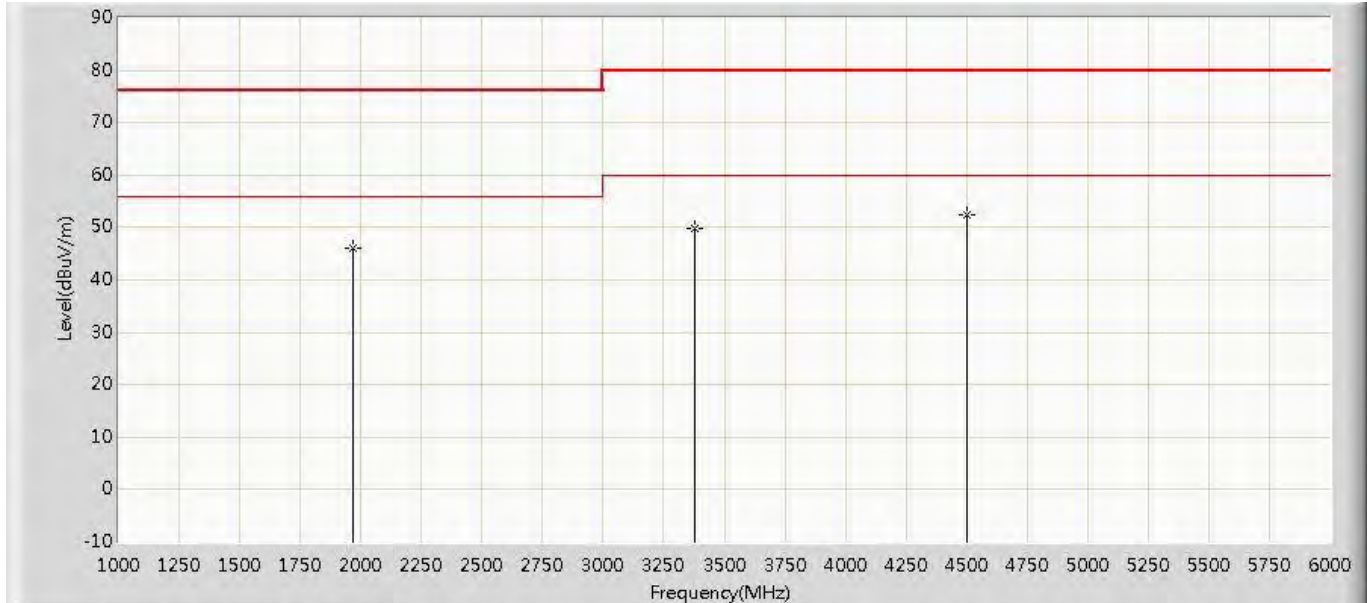


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			1625.000	42.630	33.890	-33.370	76.000	8.740	100	-167	PK
2		*	2790.000	48.862	34.420	-27.138	76.000	14.442	100	84	PK
3			4328.000	52.326	35.190	-27.674	80.000	17.137	100	21	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: CB8	Time: 2019/04/19 - 20:53
Limit: VCCI32_A_(Above_1G)	Margin: 0
Probe: CB8_Horn_3117_1805	Polarity: Vertical
EUT: Network Camera	Power: By 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			1965.000	46.161	34.200	-29.839	76.000	11.961	100	-117	PK
2			3380.000	49.779	34.310	-30.221	80.000	15.469	100	187	PK
3		*	4500.000	52.294	34.490	-27.706	80.000	17.804	100	28	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: IB9389-HT, PoE Mode

Description : Front View of Radiated Test



Test Mode : Mode 1: IB9389-HT, PoE Mode

Description : Back View of Radiated Test



Test Mode : Mode 1: IB9389-HT, PoE Mode

Description : Front View of High Frequency Radiated Test



5. Attachment

➤ **EUT Photograph**

(1) EUT Photo



(2) EUT Photo



(3) EUT Photo

