

VCCI Test Report

Product Name : Network Camera

Model No. : FD9189-H, FD9189-HM, FD9189-HT

Applicant : VIVOTEK INC.

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

Date of Receipt : 2019/01/29

Issued Date : 2019/03/06

Report No. : 1910340R-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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 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. : FD9189-H, FD9189-HM, FD9189-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
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 (Director / Vincent Lin)

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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.	FD9189-H, FD9189-HM, FD9189-HT

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:

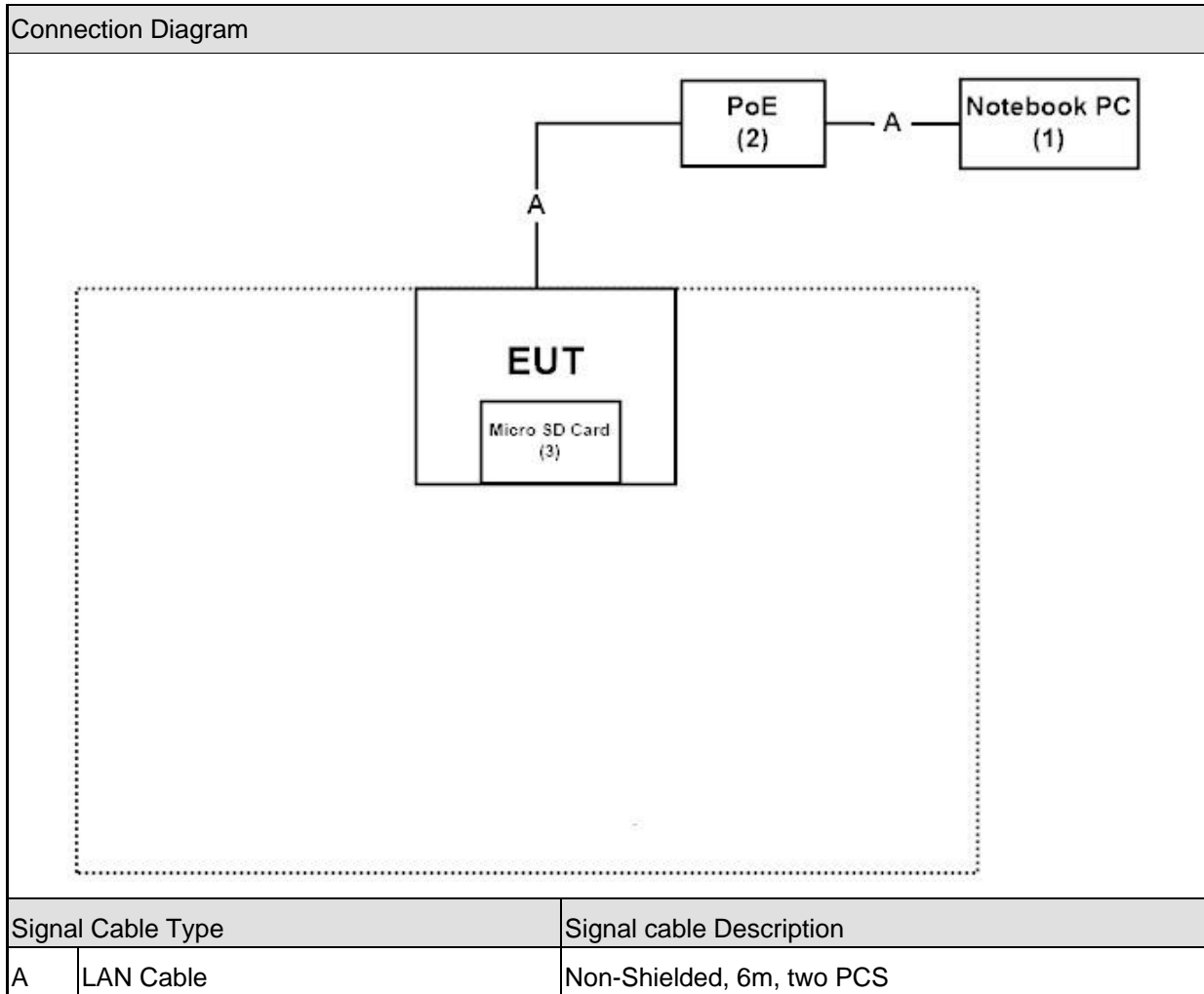
Pre-Test Mode	
Mode 1: Normal Operation , PoE	
Final Test Mode	
Emission	Mode 1: Normal Operation , PoE

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	E5530	24QPXW1	Non-shielded, 1.8m
2 PoE	N/A	N/A	N/A	Non-shielded, 1.8m
3 Micro SD Card 1GB	SanDisk	N/A	0734502841D8M	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	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 / SR8

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESCS 30	100369	2018/11/19
LISN	R&S	ENV216	101105	2018/03/30
LISN	R&S	ESH3-Z5	836679/014	2018/04/02
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
Coupling Decoupling Network	Teseq	CDN ST08A	33998	2018/10/26
Coupling Decoupling Network	Teseq	CDN T8-Cat6	29669	2018/10/26

Radiated Emission / Site7

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Broadband Antenna	Schwarzbeck	VULB 9168	0853	2018/04/11
EMI Test Receiver	R&S	ESCI	100649	2018/07/20
Coaxial Cable	DEKRA	RG 214	LC007-RG	2018/06/18
Pre-Amplifier	DEKRA	AP/0100A	CHM/1009094	2018/06/18
Site7 NSA	DEKRA	N/A	N/A	2018/06/18

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	2018/06/25

VCCI Test Site:

Test Item	Test Site	VCCI No.
Conducted Emission (Telecommunication Port)	SR8	T-1887
Radiated Emission	Site 7	R-3748
Radiated Emission (Above 1GHz)	CB7(9x6x6_Chamber)	G-10035

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

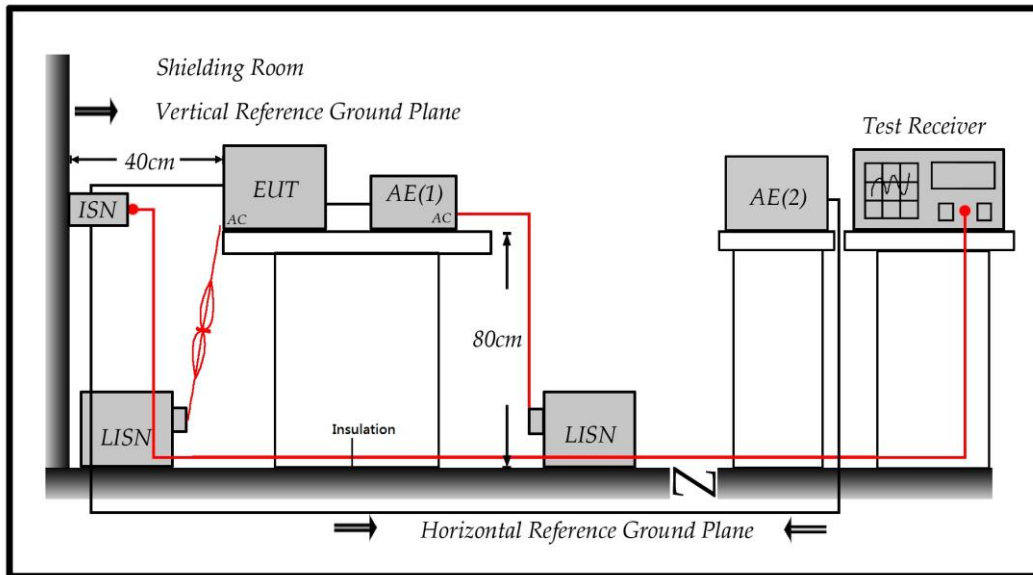
Performed Item	Items	Required	Actual
Impedance Stabilization Network	Temperature (°C)	15-35	20.3
	Humidity (%RH)	25-75	53
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	21.4
	Humidity (%RH)	25-75	58
	Barometric pressure (mbar)	860-1060	950-1000

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 (μ V)	Class B current limits dB (μ A)
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	Quasi Peak / 9 KHz	84 – 74	40 – 30
0.5 – 30	And current probe		74	30
0.15 – 0.5	CVP	Average / 9 KHz	74 – 64	30 – 20
0.5 – 30	And current probe		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.

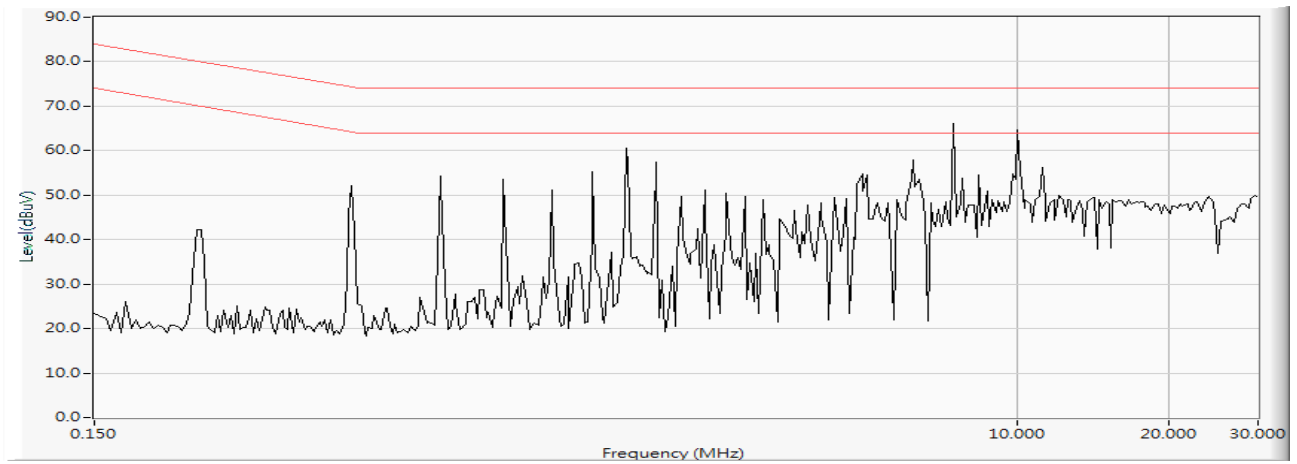
The 75dB LCL ISN is used for cat. 6 cable, the 65dB LCL ISN is used for cat. 5 cable, 55dB LCL ISN is used for cat. 3.

3.5. Deviation from Test Standard

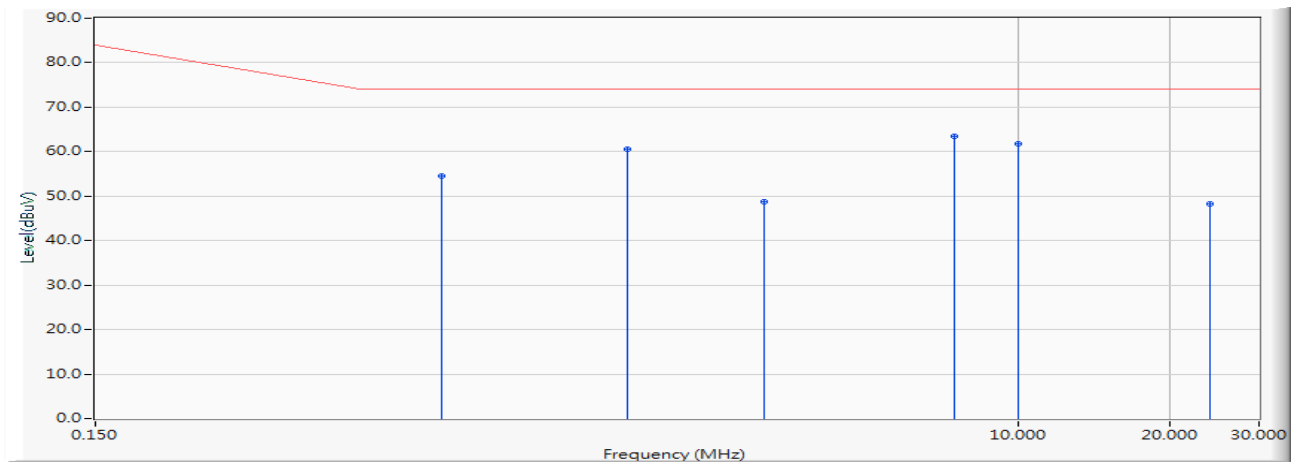
No deviation.

3.6. Test Result

Site : SR8	Time : 2019/02/12 - 12:01
Limit : ISN_Voltage_B_00M_QP	Margin : 10
EUT : Network Camera	Probe : TESEQ_T8_42815 - Line1
Power : POE	Note : Mode 1, ISN 10M



Site : SR8	Time : 2019/02/12 - 12:03
Limit : ISN_Voltage_B_00M_QP	Margin : 0
EUT : Network Camera	Probe : TESEQ_T8_42815 - Line1
Power : POE	Note : Mode 1, ISN 10M

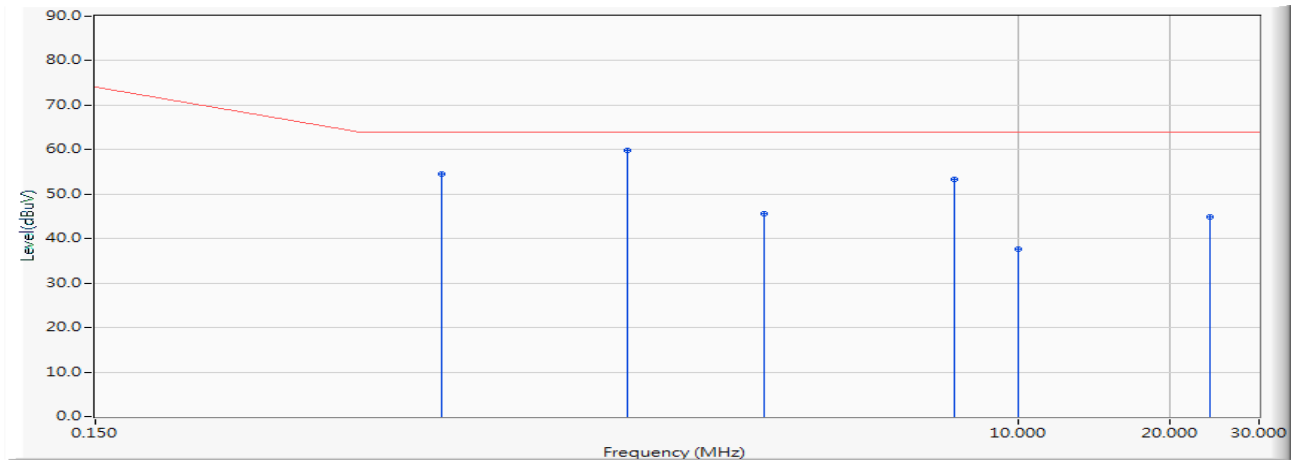


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.725	9.959	44.470	54.429	-19.571	74.000	QUASIPeAK
2		1.693	9.909	50.550	60.459	-13.541	74.000	QUASIPeAK
3		3.145	9.901	38.730	48.631	-25.369	74.000	QUASIPeAK
4	*	7.500	9.970	53.500	63.470	-10.530	74.000	QUASIPeAK
5		10.000	10.022	51.750	61.772	-12.228	74.000	QUASIPeAK
6		23.943	10.426	37.950	48.376	-25.624	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

Site : SR8	Time : 2019/02/12 - 12:03
Limit : ISN_Voltage_B_00M_AV	Margin : 0
EUT : Network Camera	Probe : TESEQ_T8_42815 - Line1
Power : POE	Note : Mode 1, ISN 10M

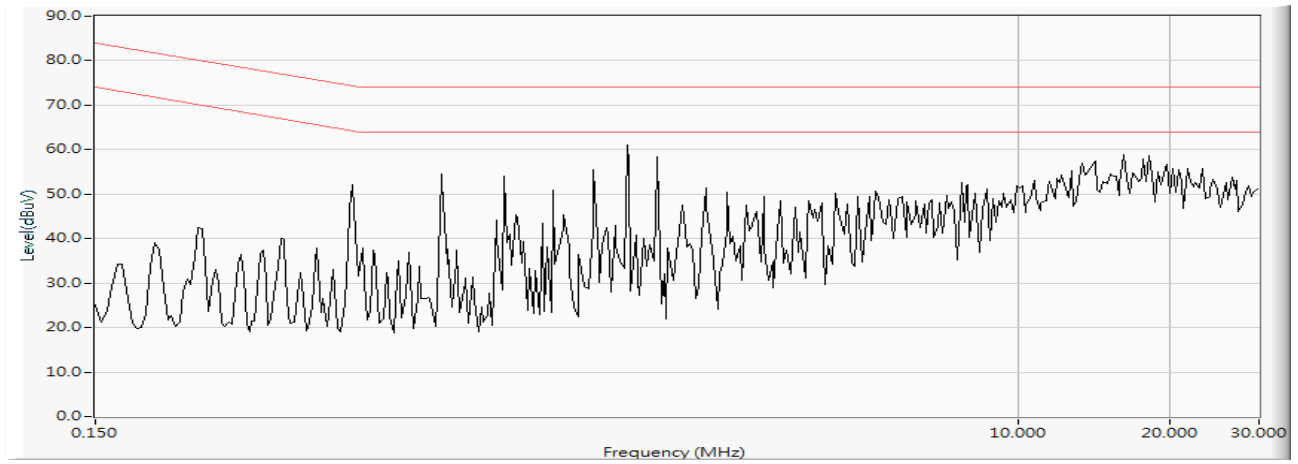


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.725	9.959	44.460	54.419	-9.581	64.000	AVERAGE
2	*	1.693	9.909	49.890	59.799	-4.201	64.000	AVERAGE
3		3.145	9.901	35.630	45.531	-18.469	64.000	AVERAGE
4		7.500	9.970	43.360	53.330	-10.670	64.000	AVERAGE
5		10.000	10.022	27.570	37.592	-26.408	64.000	AVERAGE
6		23.943	10.426	34.510	44.936	-19.064	64.000	AVERAGE

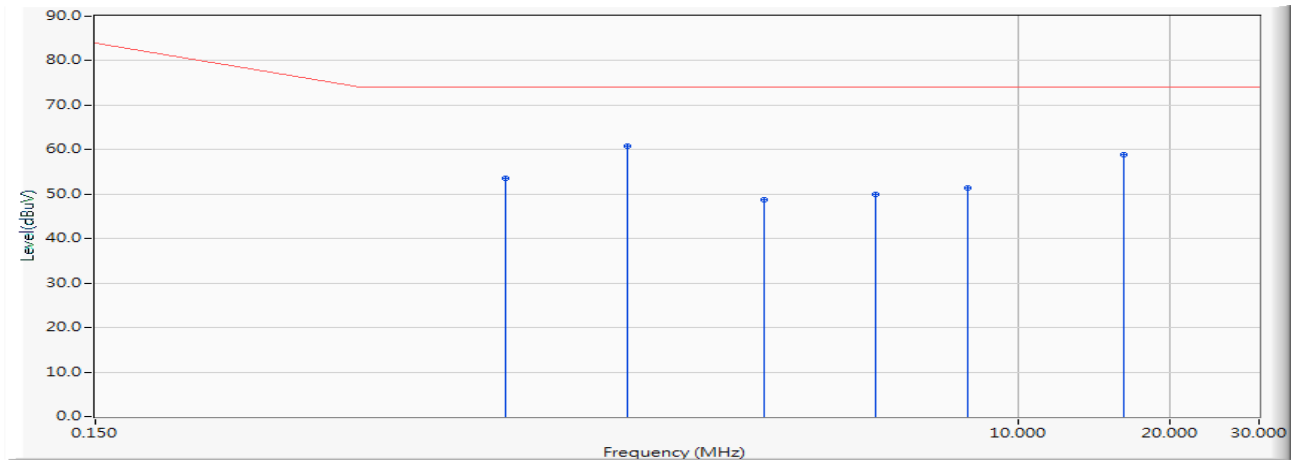
Note:

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

Site : SR8	Time : 2019/02/12 - 11:58
Limit : ISN_Voltage_B_00M_QP	Margin : 10
EUT : Network Camera	Probe : TESEQ_T8_42815 - Line1
Power : POE	Note : Mode 1, ISN 100M



Site : SR8	Time : 2019/02/12 - 11:59
Limit : ISN_Voltage_B_00M_QP	Margin : 0
EUT : Network Camera	Probe : TESEQ_T8_42815 - Line1
Power : POE	Note : Mode 1, ISN 100M

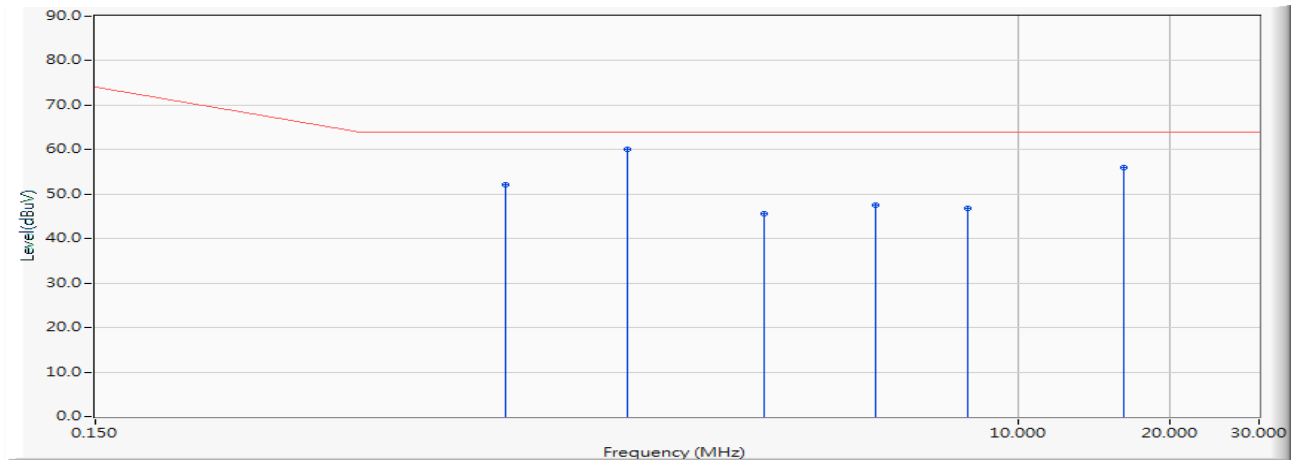


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.968	9.929	43.640	53.569	-20.431	74.000	QUASIPeAK
2	*	1.693	9.909	50.880	60.789	-13.211	74.000	QUASIPeAK
3		3.145	9.901	38.820	48.721	-25.279	74.000	QUASIPeAK
4		5.237	9.919	39.960	49.879	-24.121	74.000	QUASIPeAK
5		7.982	9.981	41.300	51.281	-22.719	74.000	QUASIPeAK
6		16.228	10.191	48.720	58.911	-15.089	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

Site : SR8	Time : 2019/02/12 - 11:59
Limit : ISN_Voltage_B_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		0.968	9.929	42.080	52.009	-11.991	64.000	AVERAGE
2	*	1.693	9.909	50.200	60.109	-3.891	64.000	AVERAGE
3		3.145	9.901	35.600	45.501	-18.499	64.000	AVERAGE
4		5.237	9.919	37.540	47.459	-16.541	64.000	AVERAGE
5		7.982	9.981	36.920	46.901	-17.099	64.000	AVERAGE
6		16.228	10.191	45.900	56.091	-7.909	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

3.7. Test Photograph

Test Mode : Mode 1: Normal Operation , PoE

Description : Front View of ISN Test



Test Mode : Mode 1: Normal Operation , PoE

Description : Back View of ISN Test



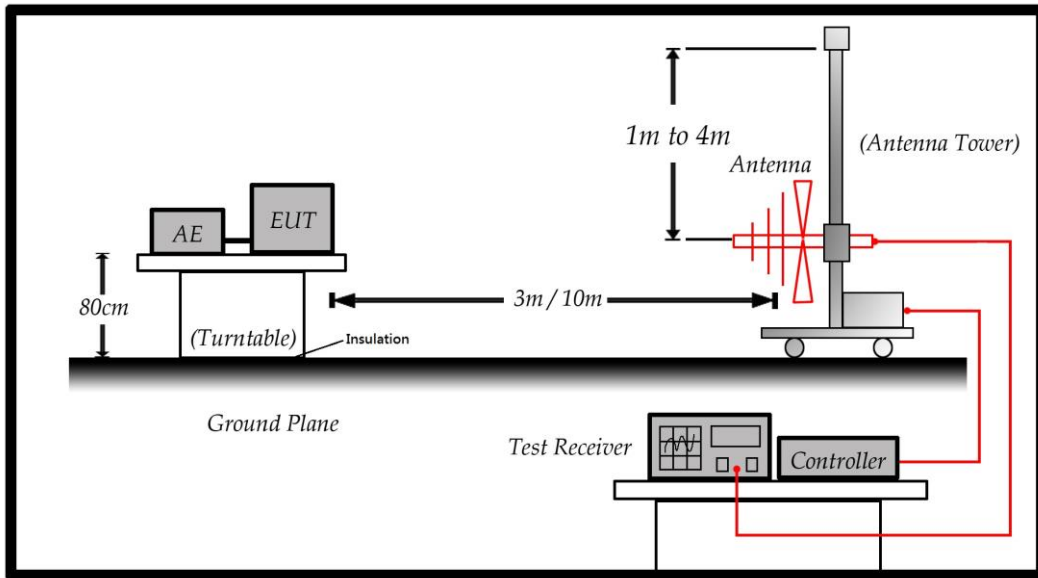
4. Radiated Emission

4.1. Test Specification

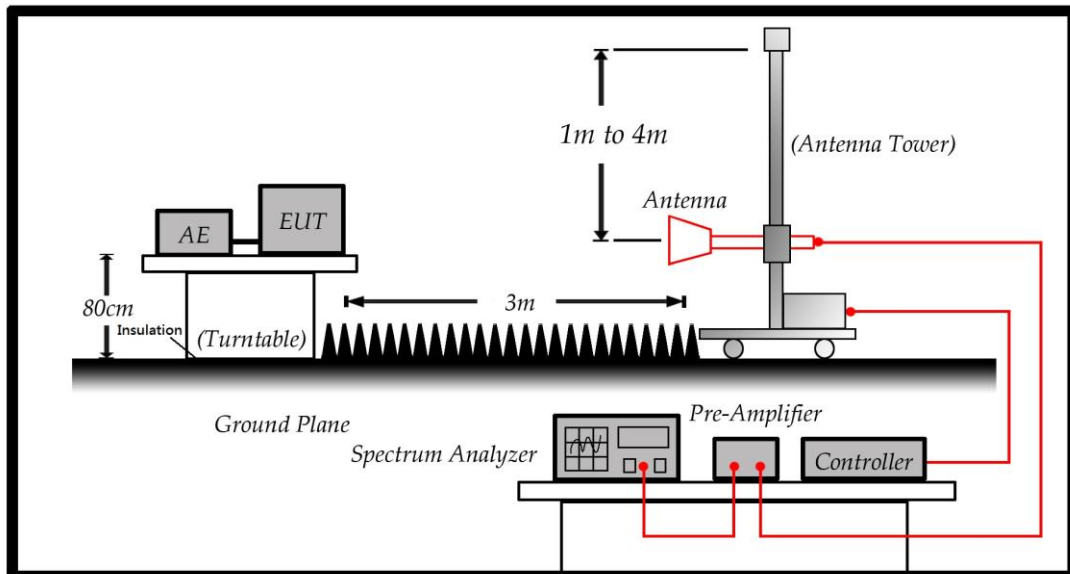
According to EMC Standard: VCCI CISPR 32

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(μ V/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(μ V/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
$F_x \leq 108$ MHz	1 GHz
108 MHz < $F_x \leq 500$ MHz	2 GHz
500 MHz < $F_x \leq 1$ GHz	5 GHz
$F_x > 1$ 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 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 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 on radiated measurement.

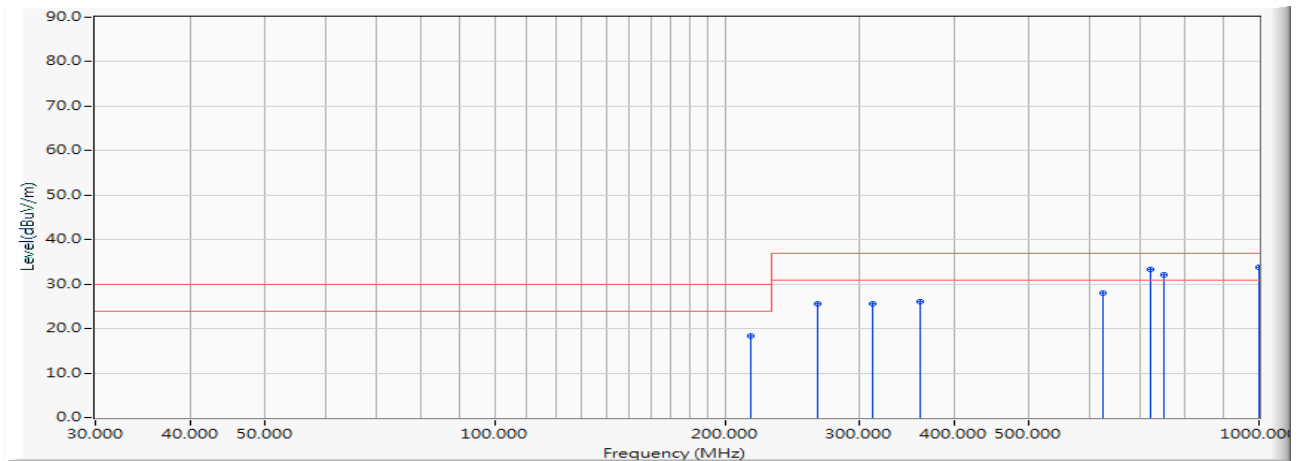
Radiated emissions were investigated over the frequency range from 30MHz to 1GHz using a receiver bandwidth of 120kHz and above 1GHz using a receiver bandwidth of 1MHz. 30MHz to 1GHz Radiated was performed at an antenna to EUT distance of 10 meters. Above 1GHz Radiated was performed at an antenna to EUT distance of 3 meters.

4.5. Deviation from Test Standard

No deviation.

4.6. Test Result

Site : SITE7	Time : 2019/02/12 - 14:41
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Network Camera	Probe : Site7_VULB9168_10m_1804 - HORIZONTAL
Power : POE	Note : Mode 1

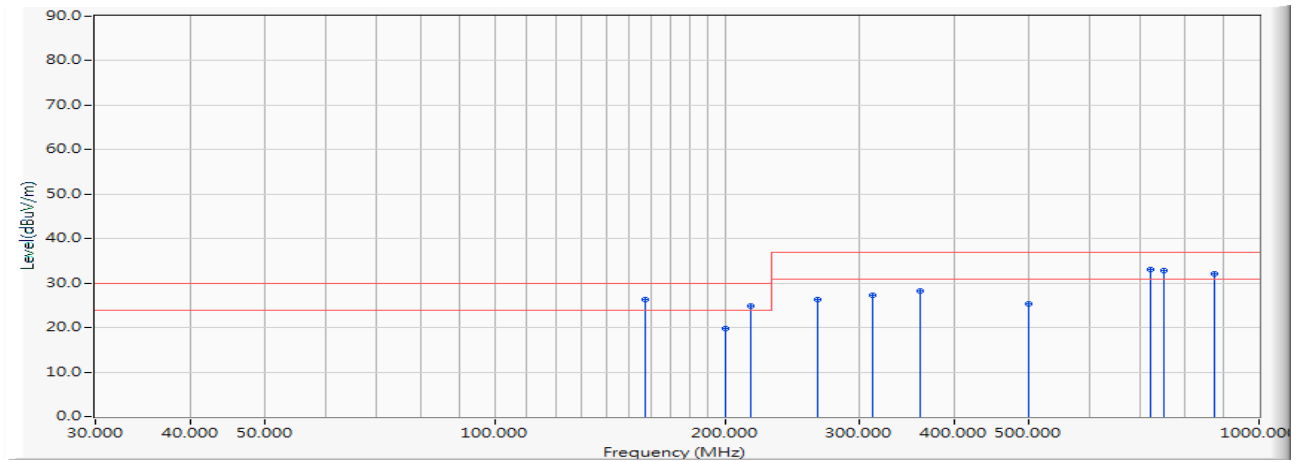


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	216.000	-12.557	31.000	18.443	-11.557	30.000	QUASPEAK	390.000	66.000
2	264.000	-9.724	35.200	25.477	-11.523	37.000	QUASPEAK	350.000	-48.000
3	312.000	-7.759	33.400	25.642	-11.358	37.000	QUASPEAK	320.000	62.000
4	360.000	-6.392	32.500	26.108	-10.892	37.000	QUASPEAK	315.000	-82.000
5	625.000	1.618	26.300	27.918	-9.082	37.000	QUASPEAK	150.000	62.000
6	720.000	3.653	29.700	33.354	-3.646	37.000	QUASPEAK	100.000	-44.000
7	750.000	4.566	27.600	32.165	-4.835	37.000	QUASPEAK	125.000	-37.000
8	* 1000.000	7.730	26.000	33.730	-3.270	37.000	QUASPEAK	100.000	64.000

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

Site : SITE7	Time : 2019/02/12 - 14:41
Limit : CISPR_B_10M_QP	Margin : 6
EUT : Network Camera	Probe : Site7_VULB9168_10m_1804 - VERTICAL
Power : POE	Note : Mode 1

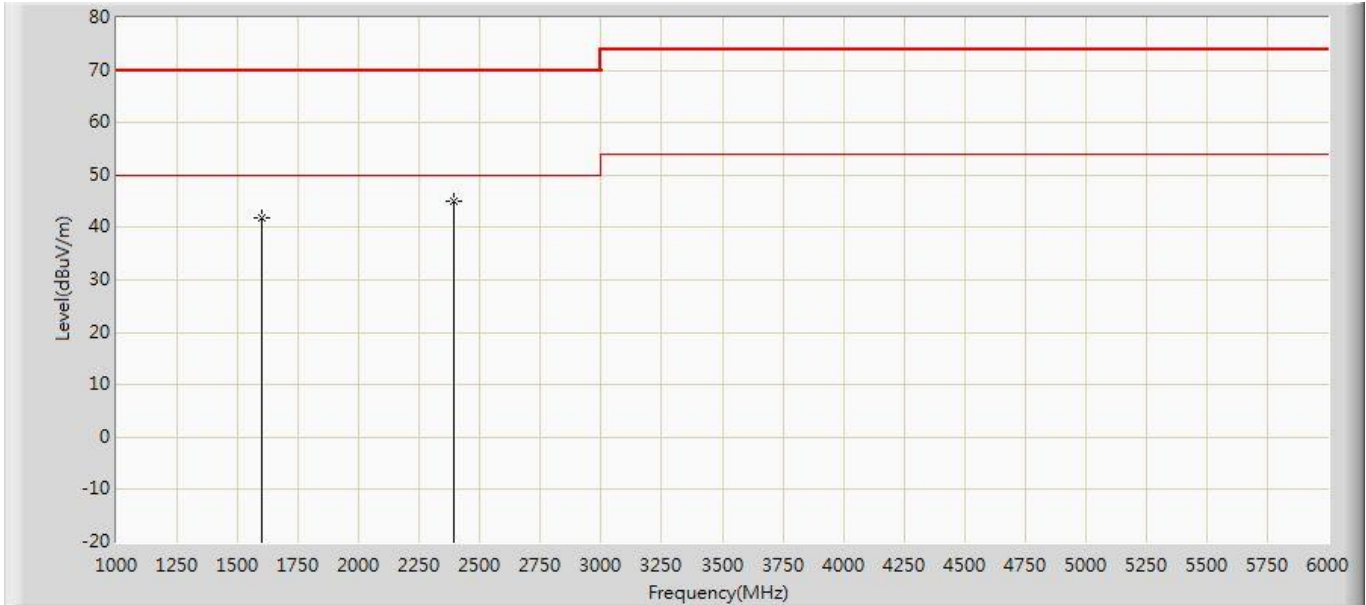


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	157.000	-10.172	36.500	26.329	-3.671	30.000	QUASPEAK	100.000	-121.000
2		200.000	-12.850	32.600	19.750	-10.250	30.000	QUASPEAK	100.000	91.000
3		216.000	-12.557	37.300	24.743	-5.257	30.000	QUASPEAK	100.000	116.000
4		263.990	-9.725	36.000	26.276	-10.724	37.000	QUASPEAK	100.000	54.000
5		312.000	-7.759	35.000	27.242	-9.758	37.000	QUASPEAK	100.000	-129.000
6		360.000	-6.392	34.700	28.308	-8.692	37.000	QUASPEAK	100.000	106.000
7		500.000	-1.909	27.300	25.391	-11.609	37.000	QUASPEAK	315.000	92.000
8		719.990	3.653	29.500	33.153	-3.847	37.000	QUASPEAK	230.000	111.000
9		750.000	4.566	28.300	32.865	-4.135	37.000	QUASPEAK	250.000	-104.000
10		875.000	6.091	26.000	32.091	-4.909	37.000	QUASPEAK	180.000	64.000

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

Site: CB7	Time: 2019/02/13 - 10:04
Limit: VCCI_B_(Above_1G)	Margin: 0
Probe: CB7_Horn_3117_1808	Polarity: Horizontal
EUT: Network Camera	Power : POE
Note : Mode 1	

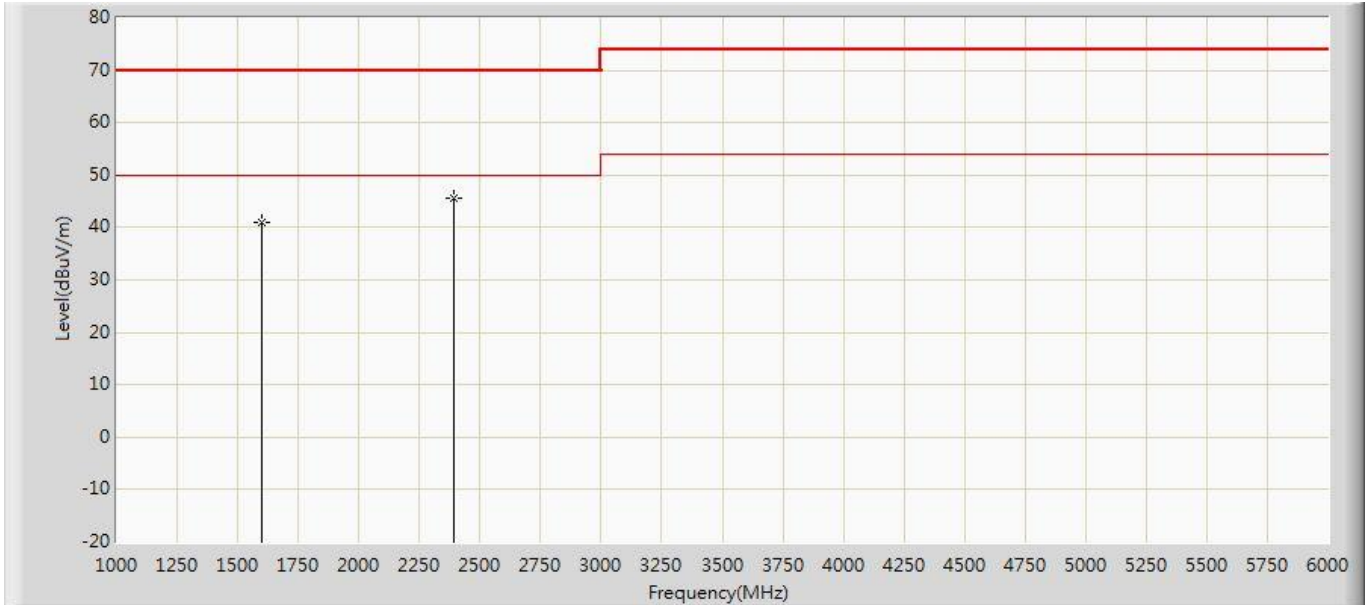


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Ant Pos (cm)	Table Pos (deg)	Type
1			1600.000	41.931	55.250	-28.069	70.000	-13.319	180	40	PK
2		*	2395.000	45.125	53.520	-24.875	70.000	-8.395	200	110	PK

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: 2019/02/13 - 10:05
Limit: VCCI_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			1600.000	40.981	54.300	-29.019	70.000	-13.319	100	-132	PK
2		*	2395.000	45.565	53.960	-24.435	70.000	-8.395	100	90	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: Normal Operation , PoE

Description : Front View of Radiated Test



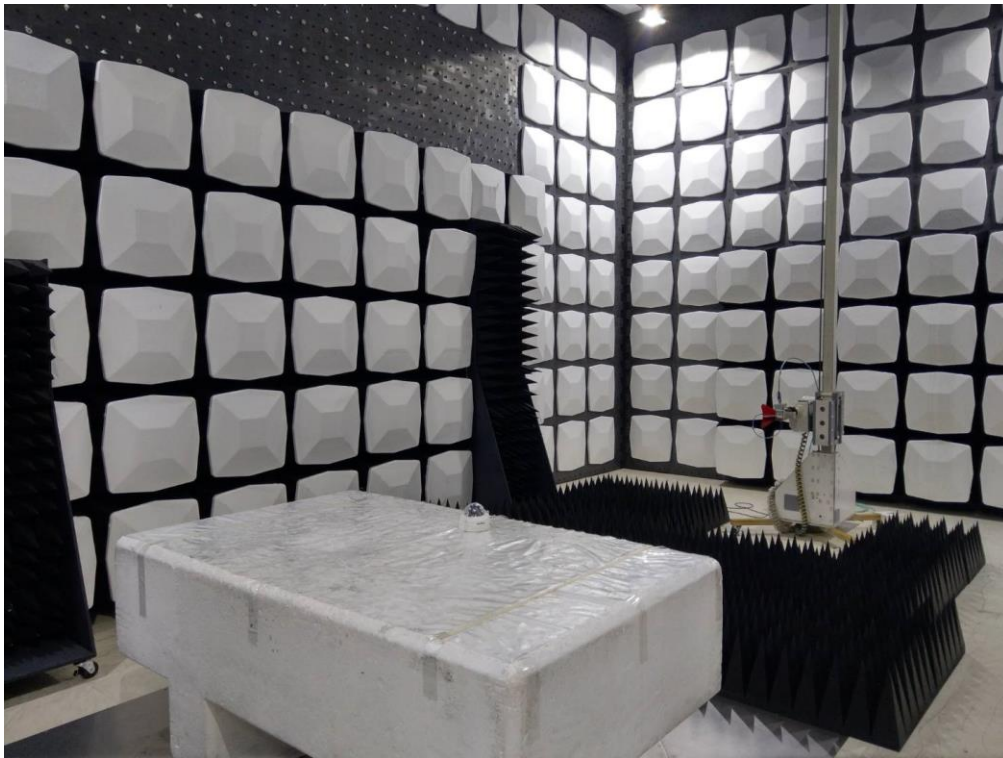
Test Mode : Mode 1: Normal Operation , PoE

Description : Back View of Radiated Test



Test Mode : Mode 1: Normal Operation , PoE

Description : Front View of High Frequency Radiated Test



5. Attachment
➤ **EUT Photograph**

(1) EUT Photo



(2) EUT Photo

