

VCCI Test Report

Product Name : Network Camera
Model No. : IB9367-EHT-v2,IB9367-EHT-v2(5-50mm)

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

Date of Receipt : 2020/09/10
Issued Date : 2020/11/23
Report No. : 2090928R-E3012130011
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 report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

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Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

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. : IB9367-EHT-v2,IB9367-EHT-v2(5-50mm)

EUT Rated Voltage : PoE, DC12V, AC24V

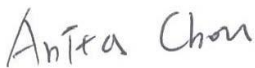
EUT Test Voltage : AC 100 V / 50 Hz, PoE


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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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	:	BSMI, NCC, TAF
Norway	:	DNVGL
USA	:	FCC
Japan	:	VCCI

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site : <http://www.dekra.com.tw>

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Revision History

Report No.	Version	Description	Issued Date
2090928R-E3012130011	V1.0	Initial issue of report.	2020-11-23

1. General Information

1.1. EUT Description

Product Name	Network Camera
Trade Name	VIVOTEK
Model No.	IB9367-EHT-v2,IB9367-EHT-v2(5-50mm)

Note:

The EUT is including two models for different marketing requirement.

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, DC 12V (Adapter)	
Mode 2: Normal Operation, PoE	
Mode 3: Normal Operation, AC 24V (Adapter)	
Final Test Mode	
Emission	Mode 1: Normal Operation, DC 12V (Adapter)
	Mode 2: Normal Operation, PoE
	Mode 3: Normal Operation, AC 24V (Adapter)

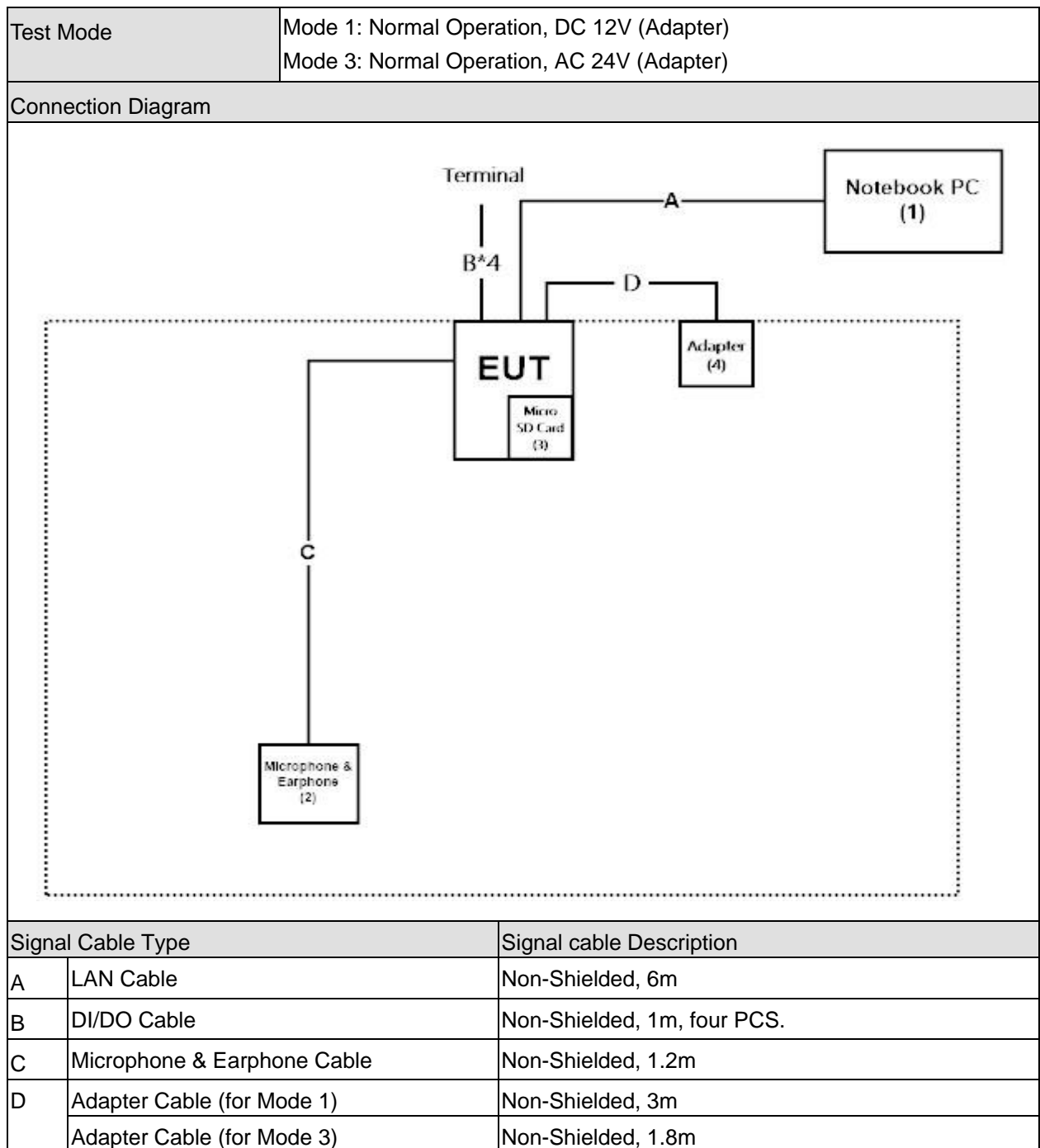
1.3. Tested System Details

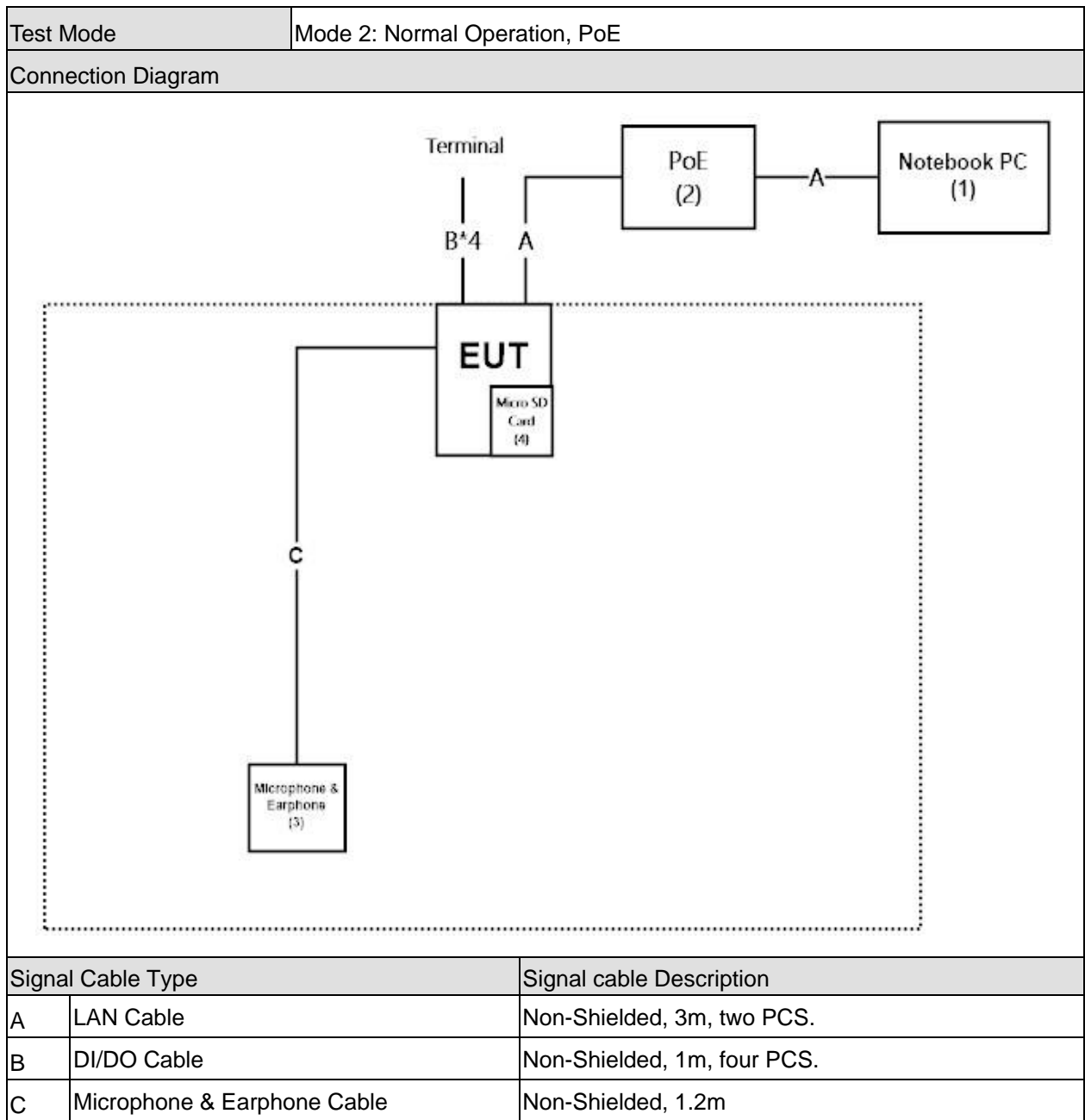
The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Test Mode		Mode 1: Normal Operation, DC 12V (Adapter) Mode 3: Normal Operation, AC 24V (Adapter)			
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	Latitude 5580	2HRD7H2	Non-Shielded, 0.8m
2	Microphone & Earphone	RONEVER	MOE240	N/A	N/A
3	Micro SD Card 1GB	SanDisk	N/A	0801002841D2N	N/A
4	Adapter (Mode 1)	OEM	ADS0248T-W120150	N/A	N/A
	Adapter (Mode 3)	Fonte De Alimentação	TAA66-2403500AU	N/A	N/A

Test Mode		Mode 2: Normal Operation, PoE			
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	Latitude 5580	2HRD7H2	Non-Shielded, 0.8m
2	PoE	EDAC	EA11011P-560	N/A	N/A
3	Microphone & Earphone	RONEVER	MOE240	N/A	N/A
4	Micro SD Card 1GB	SanDisk	N/A	0801002841D2N	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 A	Yes	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

Conducted Emission / SR1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESR3	102041	2020/05/12
LISN	R&S	ENV216	100085	2020/04/07
LISN	R&S	ESH3-Z5	836679/023	2020/04/07
Coaxial Cable	DEKRA	RG 400	LC016-RG	2020/06/19

Impedance Stabilization Network / SR1

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
EMI Test Receiver	R&S	ESR3	102041	2020/05/12
LISN	R&S	ENV216	100085	2020/04/07
LISN	R&S	ESH3-Z5	836679/023	2020/04/07
Coaxial Cable	DEKRA	RG 400	LC016-RG	2020/06/19
Impedance Stabilization Network	Teseq	ISN T800	30303	2020/06/08

Radiated Emission / Site7

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Bilog Antenna	Schaffner Chase	CBL6112B	2922	2020/09/14
EMI Test Receiver	R&S	ESCI	100649	2020/06/24
Coaxial Cable	DEKRA	RG 214	LC007-RG	2020/06/16
Pre-Amplifier	DEKRA	AP/0100A	CHM/1009094	2020/06/16
Site7 NSA	DEKRA	N/A	N/A	2020/06/16

Radiated Emission / CB7

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Signal Analyzer	Agilent	N9010A	MY52100213	2019/12/03
Horn Antenna	ETS-Lindgren	3117	00202723	2020/09/25
Pre-Amplifier	EMCI	EMC051845SE	980632	2020/08/21
CB7 VSWR	DEKRA	N/A	N/A	2020/06/23

VCCI Test Site:

Test Item	Test Site	VCCI No.
Conducted Emission	SR1	C-2428
Conducted Emission (Telecommunication Port)	SR1	T-1473
Radiated Emission	Site 7	R-3748
Radiated Emission (Above 1GHz)	CB7(9x6x6_Chamber)	G-10035

2.3. Measurement Uncertainty

Conducted Emission

The measurement uncertainty is evaluated as ± 3.44 dB.

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

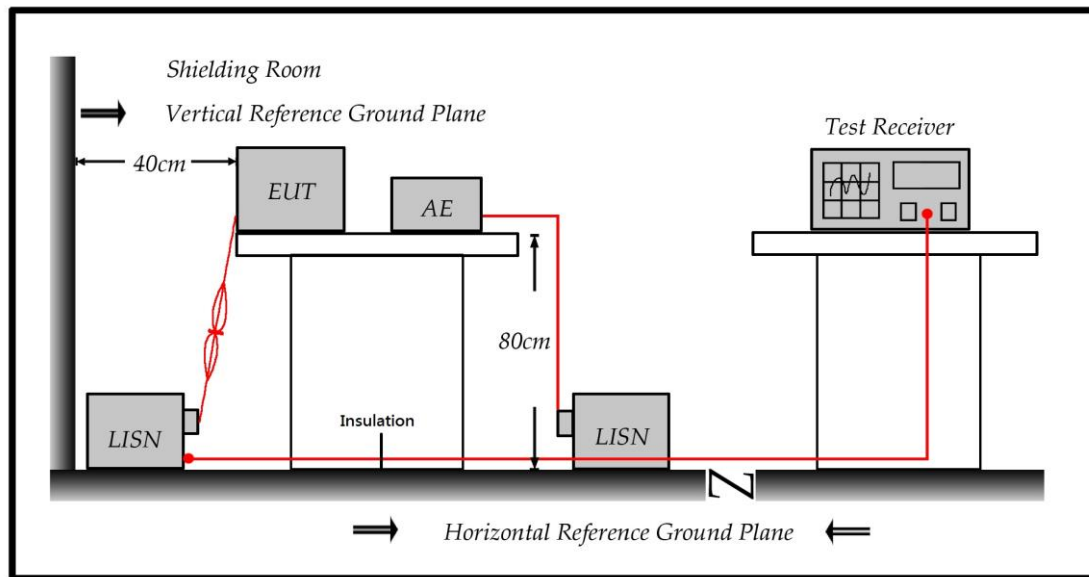
Performed Item	Items	Required
Conducted Emission	Temperature (°C)	10-40
	Humidity (%RH)	10-90
Impedance Stabilization Network	Temperature (°C)	10-40
	Humidity (%RH)	10-90
Radiated Emission	Temperature (°C)	10-40
	Humidity (%RH)	10-90

3. Conducted Emission

3.1. Test Specification

According to EMC Standard: VCCI CISPR 32

3.2. Test Setup



3.3. Limit

Applicable to AC mains power ports			
Frequency range MHz	Coupling device	Detector type/ Bandwidth	Class A limits dB(μV)
0.15 – 0.5	AMN	Quasi Peak / 9 kHz	79
0.5 – 30			73
0.15 – 0.5	AMN	Average / 9 kHz	66
0.5 – 30			60
Both apply across the entire frequency range.			

Remarks:

If the limits for the average detector are met when using the quasi-peak detector, then the limits for the measurement with the average detector are considered to be met.

3.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

(Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to VCCI on conducted measurement.

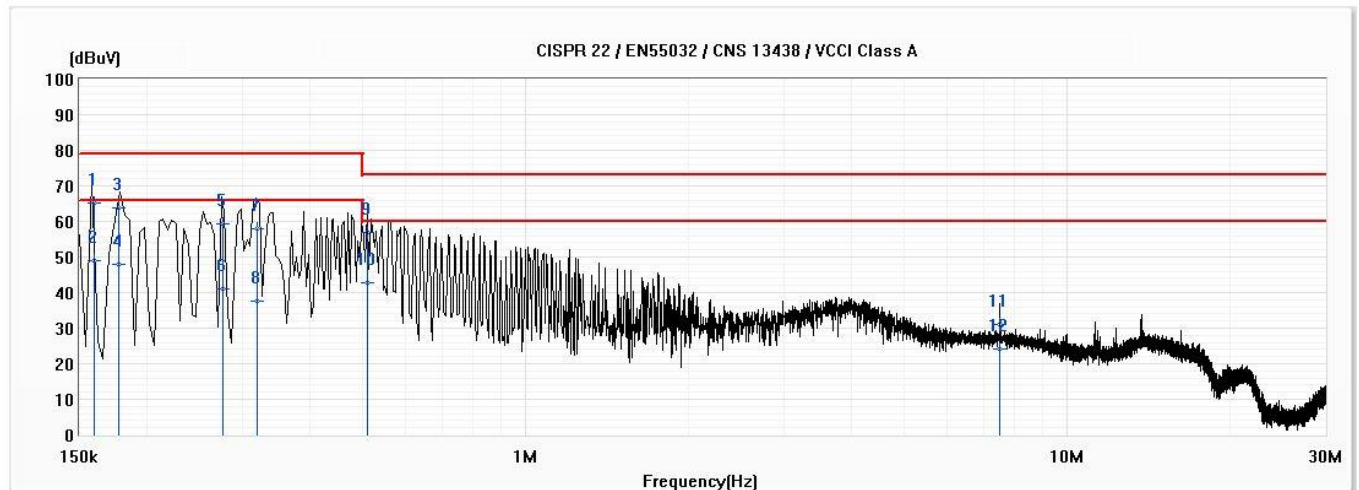
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Deviation from Test Standard

No deviation.

3.6. Test Result

Model No	IB9367-EHT-v2	Site	SR1
Test Voltage	AC 100V/50Hz	Test Date	2020/10/23
Test Mode	Mode 1	Engineer	Nilk Chen
Phase	L1	Temperature (°C)	23.5
Test Condition	--	Humidity (%RH)	60

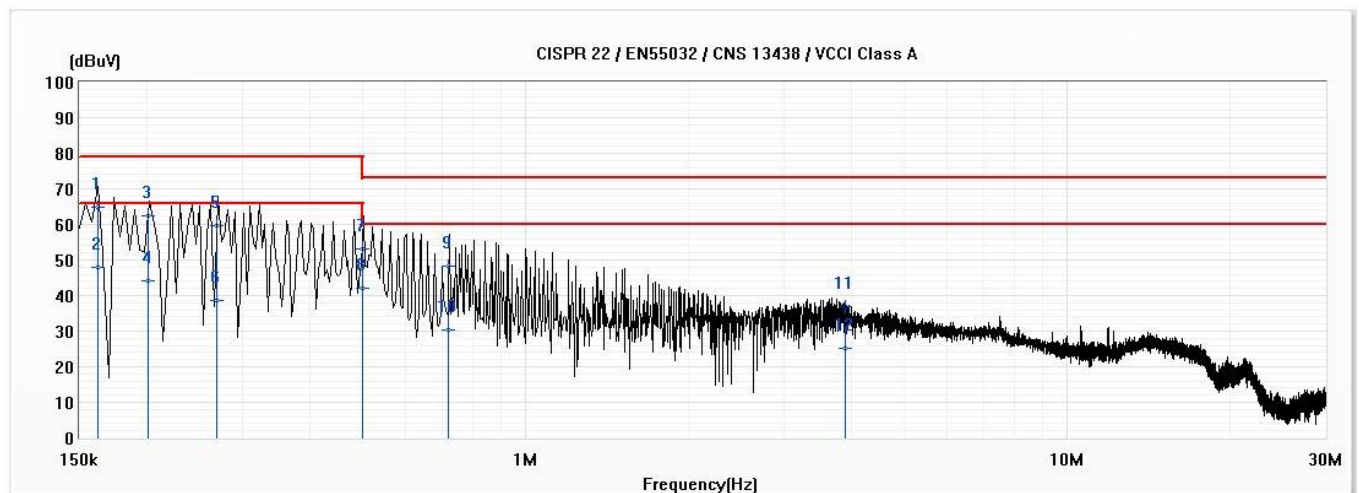


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
*1	0.160	65.20	79.00	-13.80	55.42	9.78	QP
2	0.160	48.93	66.00	-17.07	39.15	9.78	AV
3	0.177	63.95	79.00	-15.05	54.17	9.78	QP
4	0.177	47.97	66.00	-18.03	38.19	9.78	AV
5	0.275	59.46	79.00	-19.54	49.68	9.78	QP
6	0.275	40.87	66.00	-25.13	31.10	9.78	AV
7	0.319	57.83	79.00	-21.17	48.06	9.77	QP
8	0.319	37.56	66.00	-28.44	27.79	9.77	AV
9	0.510	56.83	73.00	-16.17	47.06	9.77	QP
10	0.510	42.71	60.00	-17.29	32.94	9.77	AV
11	7.499	30.88	73.00	-42.12	20.89	9.98	QP
12	7.499	24.20	60.00	-35.80	14.21	9.98	AV

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
3. Margin=Emission Level-Limit.

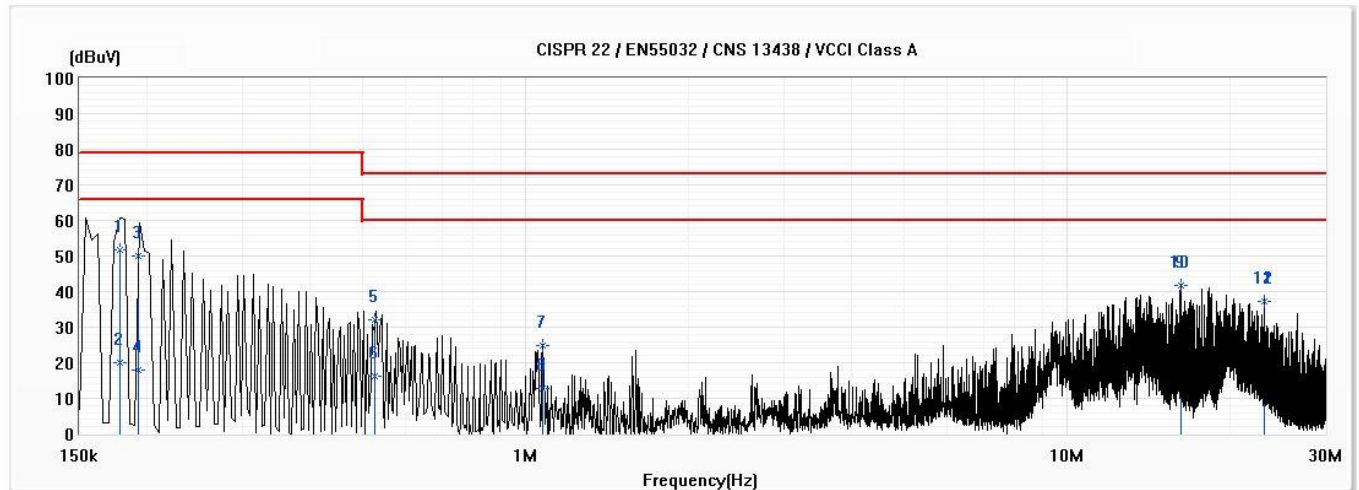
Model No	IB9367-EHT-v2	Site	SR1
Test Voltage	AC 100V/50Hz	Test Date	2020/10/23
Test Mode	Mode 1	Engineer	Nilk Chen
Phase	N	Temperature (°C)	23.5
Test Condition	--	Humidity (%RH)	60



Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
3. Margin=Emission Level-Limit.

Model No	IB9367-EHT-v2	Site	SR1
Test Voltage	AC 100V/50Hz	Test Date	2020/11/13
Test Mode	Mode 3	Engineer	Shianyu Chiou
Phase	L1	Temperature (°C)	23.5
Test Condition	--	Humidity (%RH)	60

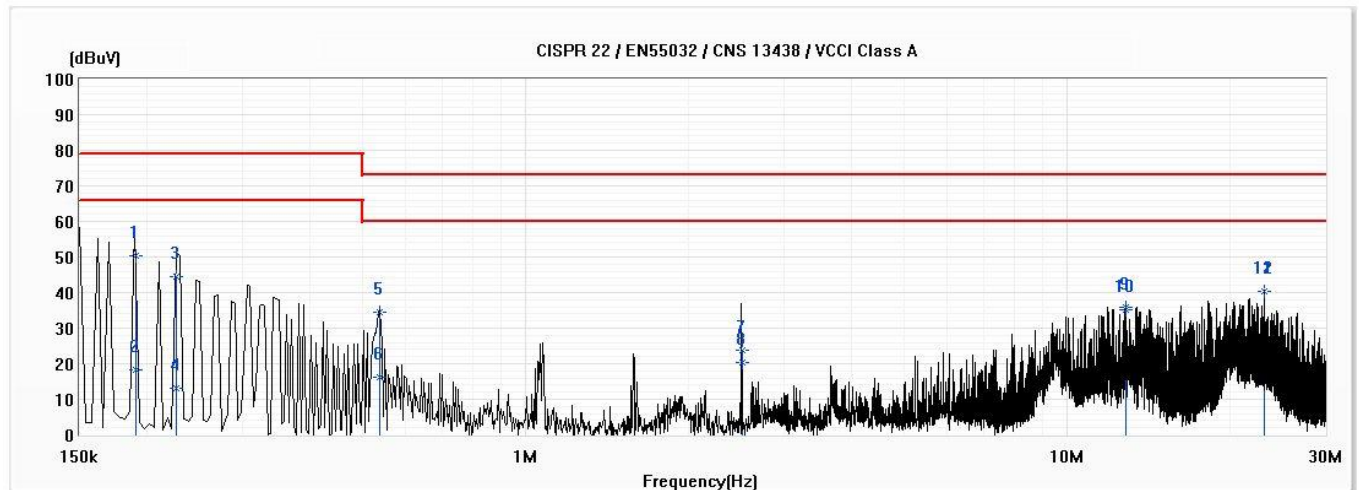


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.178	51.67	79.00	-27.33	41.89	9.78	QP
2	0.178	19.96	66.00	-46.04	10.18	9.78	AV
3	0.193	50.10	79.00	-28.90	40.32	9.78	QP
4	0.193	18.00	66.00	-48.00	8.22	9.78	AV
5	0.525	32.14	73.00	-40.86	22.37	9.77	QP
6	0.525	16.16	60.00	-43.84	6.39	9.77	AV
7	1.073	24.76	73.00	-48.24	14.95	9.81	QP
8	1.073	12.73	60.00	-47.27	2.92	9.81	AV
9	16.228	41.86	73.00	-31.14	31.67	10.19	QP
*10	16.228	41.84	60.00	-18.16	31.66	10.19	AV
11	23.128	37.39	73.00	-35.61	27.11	10.29	QP
12	23.128	37.29	60.00	-22.71	27.01	10.29	AV

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
3. Margin=Emission Level-Limit.

Model No	IB9367-EHT-v2	Site	SR1
Test Voltage	AC 100V/50Hz	Test Date	2020/11/13
Test Mode	Mode 3	Engineer	Shianyu Chiou
Phase	N	Temperature (°C)	23.5
Test Condition	--	Humidity (%RH)	60



No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.190	50.25	79.00	-28.75	40.47	9.77	QP
2	0.190	18.25	66.00	-47.75	8.48	9.77	AV
3	0.227	44.46	79.00	-34.54	34.69	9.77	QP
4	0.227	13.14	66.00	-52.86	3.38	9.77	AV
5	0.537	34.37	73.00	-38.63	24.60	9.76	QP
6	0.537	16.06	60.00	-43.94	6.30	9.76	AV
7	2.511	23.86	73.00	-49.14	14.02	9.84	QP
8	2.511	20.51	60.00	-39.49	10.67	9.84	AV
9	12.808	35.73	73.00	-37.27	25.54	10.18	QP
10	12.808	35.10	60.00	-24.90	24.91	10.18	AV
11	23.128	40.37	73.00	-32.63	29.91	10.46	QP
*12	23.128	40.19	60.00	-19.81	29.74	10.46	AV

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
3. Margin=Emission Level-Limit.

3.7. Test Photograph

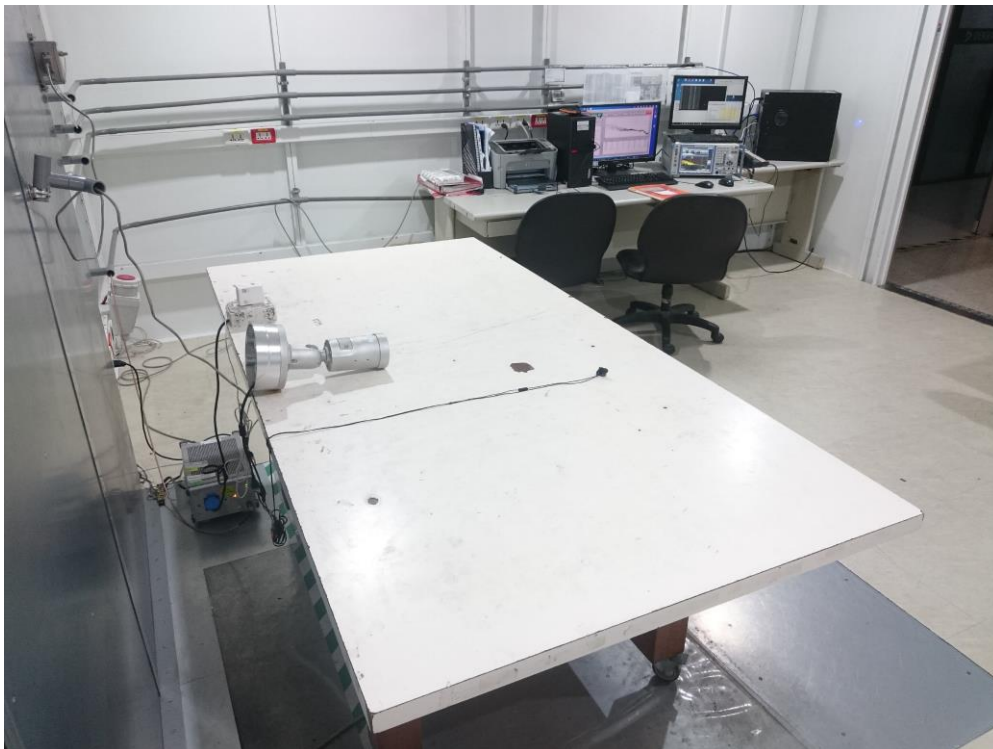
Test Mode : Mode 1: Normal Operation, DC 12V (Adapter)

Description : Front View of Conducted Test



Test Mode : Mode 1: Normal Operation, DC 12V (Adapter)

Description : Back View of Conducted Test



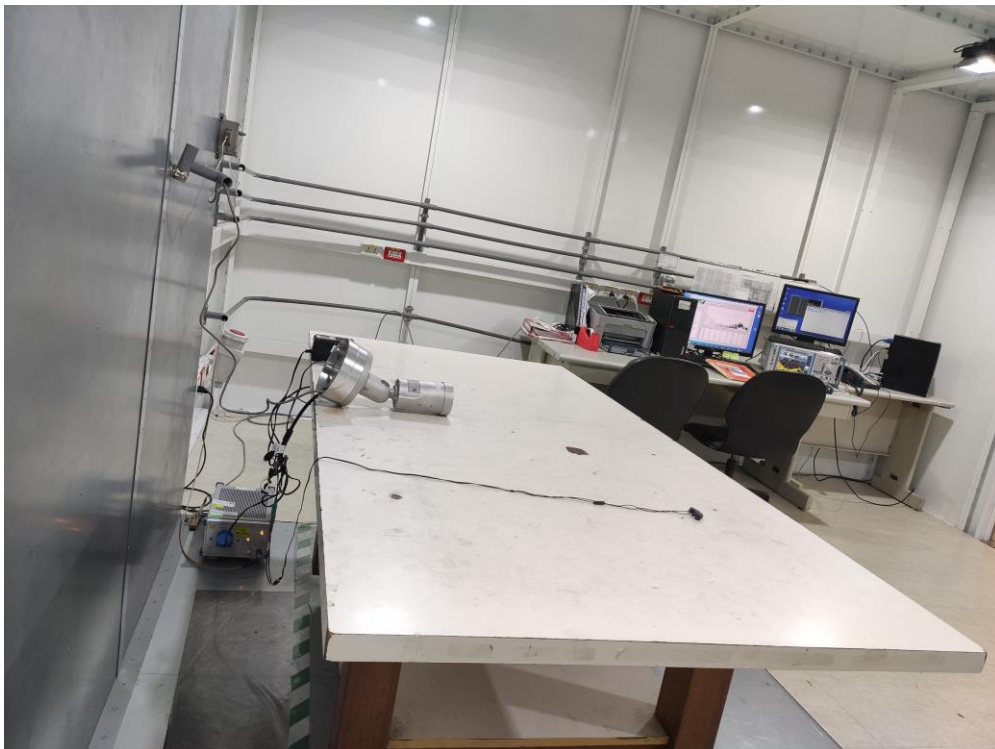
Test Mode : Mode 3: Normal Operation, AC 24V (Adapter)

Description : Front View of Conducted Test



Test Mode : Mode 3: Normal Operation, AC 24V (Adapter)

Description : Back View of Conducted Test

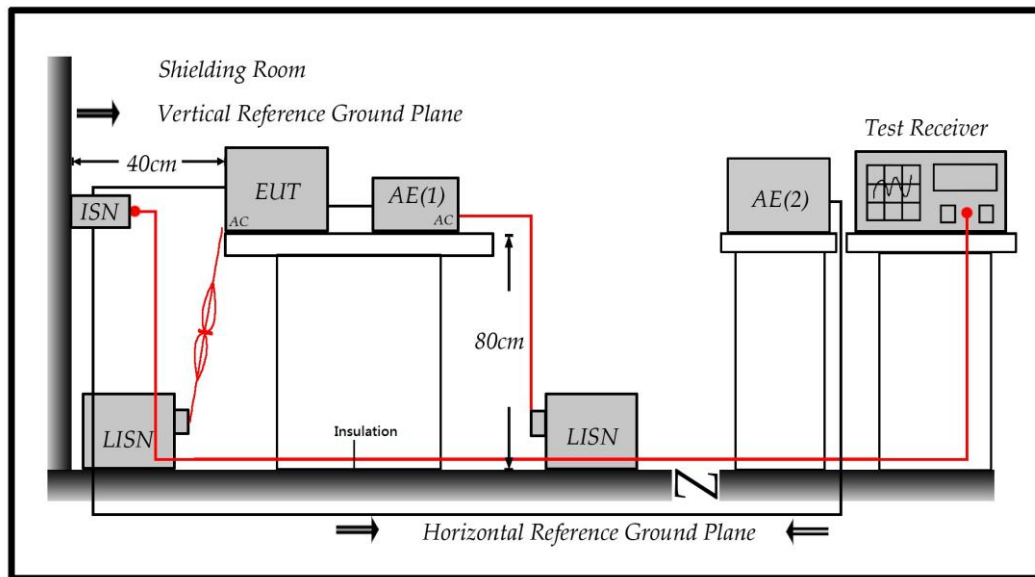


4. Conducted Emissions (Telecommunication Ports)

4.1. Test Specification

According to EMC Standard: VCCI CISPR 32

4.2. Test Setup



4.3. 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.

4.4. 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.

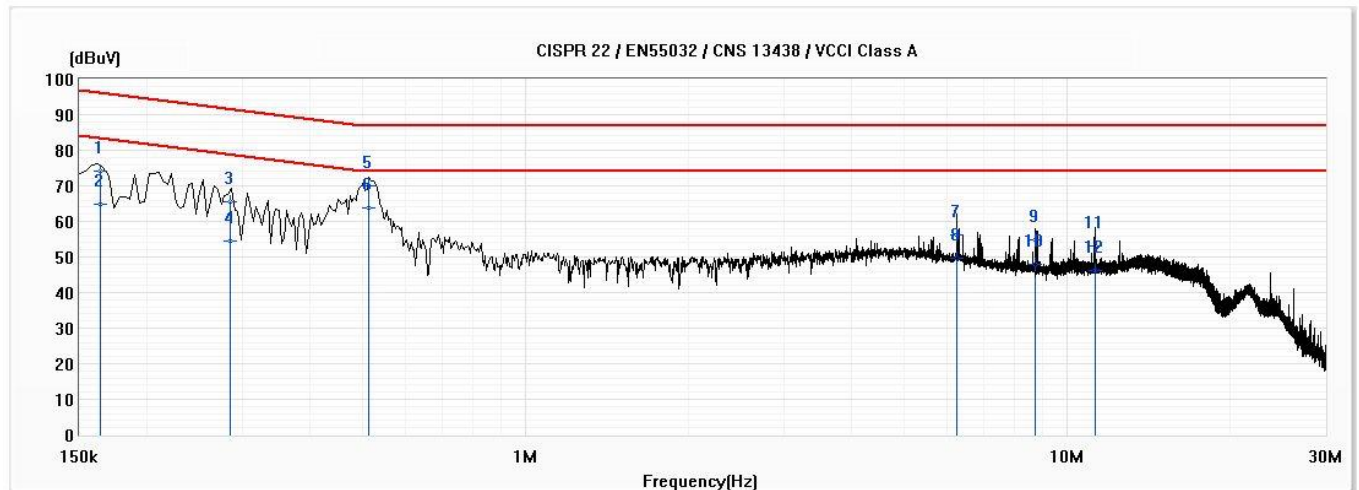
The 75dB LCL ISN is used for cat. 6 cable, the 65dB LCL ISN is used for cat. 5 cable, 55dB LCL ISN is used for cat. 3.

4.5. Deviation from Test Standard

No deviation.

4.6. Test Result

Model No	IB9367-EHT-v2	Site	SR1
Test Voltage	AC 100V/50Hz	Test Date	2020/10/23
Test Mode	Mode 1	Engineer	Nilk Chen
Phase	L1	Temperature (°C)	23.5
Test Condition	10M	Humidity (%RH)	60

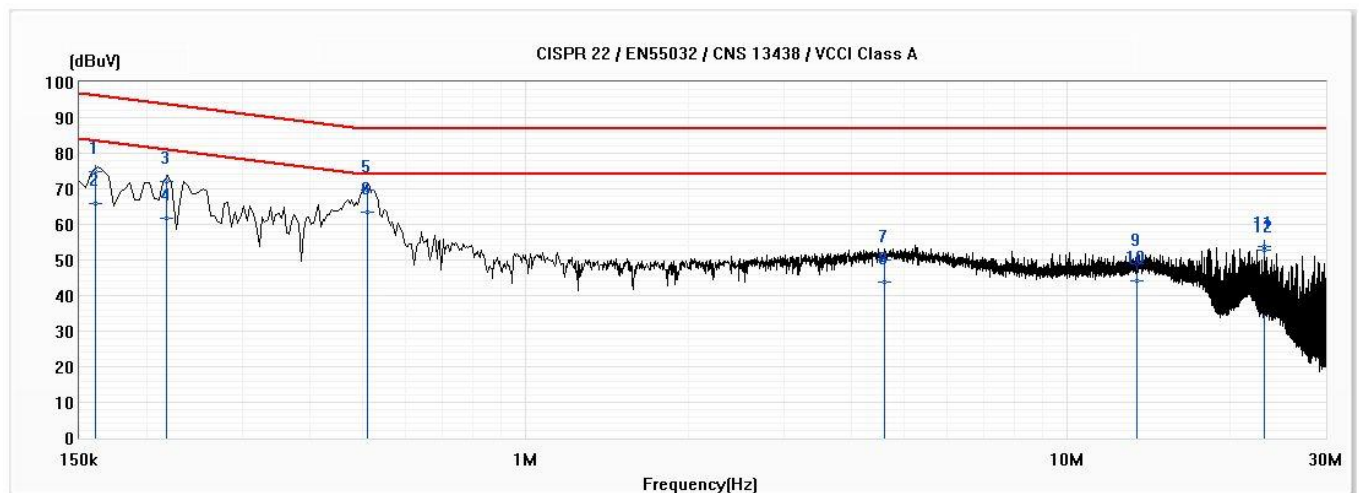


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.164	74.12	96.24	-22.12	63.95	10.17	QP
2	0.164	64.67	83.24	-18.57	54.50	10.17	AV
3	0.285	65.37	91.67	-26.30	55.43	9.93	QP
4	0.285	54.40	78.67	-24.28	44.46	9.93	AV
5	0.513	69.91	87.00	-17.09	60.12	9.79	QP
*6	0.513	63.78	74.00	-10.22	53.99	9.79	AV
7	6.247	56.16	87.00	-30.84	46.45	9.71	QP
8	6.247	49.63	74.00	-24.37	39.93	9.71	AV
9	8.748	54.72	87.00	-32.28	44.97	9.75	QP
10	8.748	47.88	74.00	-26.12	38.12	9.75	AV
11	11.250	53.02	87.00	-33.98	43.21	9.81	QP
12	11.250	46.09	74.00	-27.91	36.27	9.81	AV

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
3. Margin=Emission Level-Limit.

Model No	IB9367-EHT-v2	Site	SR1
Test Voltage	AC 100V/50Hz	Test Date	2020/10/23
Test Mode	Mode 1	Engineer	Nilk Chen
Phase	L1	Temperature (°C)	23.5
Test Condition	100M	Humidity (%RH)	60

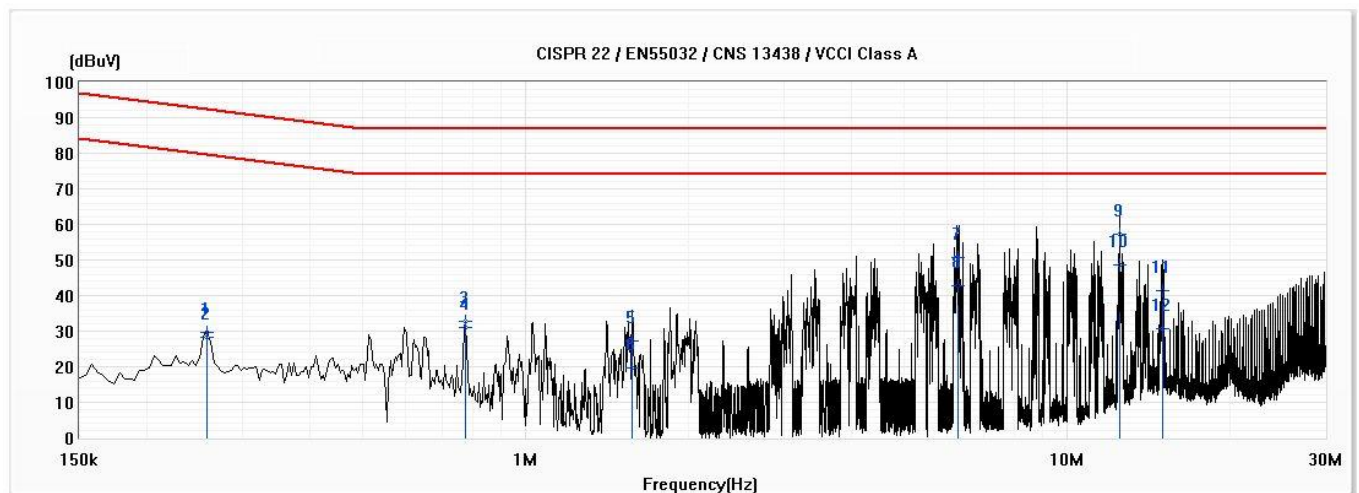


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.160	74.78	96.44	-21.66	64.60	10.18	QP
2	0.160	66.03	83.44	-17.42	55.84	10.18	AV
3	0.217	71.91	93.93	-22.02	61.88	10.03	QP
4	0.217	61.81	80.93	-19.13	51.78	10.03	AV
5	0.511	69.73	87.00	-17.27	59.94	9.79	QP
*6	0.511	63.47	74.00	-10.53	53.68	9.79	AV
7	4.595	49.87	87.00	-37.13	40.19	9.68	QP
8	4.595	43.79	74.00	-30.21	34.11	9.68	AV
9	13.480	49.13	87.00	-37.87	39.26	9.87	QP
10	13.480	44.06	74.00	-29.94	34.19	9.87	AV
11	23.129	53.63	87.00	-33.37	43.50	10.13	QP
12	23.129	52.63	74.00	-21.37	42.50	10.13	AV

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
3. Margin=Emission Level-Limit.

Model No	IB9367-EHT-v2	Site	SR1
Test Voltage	PoE	Test Date	2020/10/23
Test Mode	Mode 2	Engineer	Nilk Chen
Phase	L1	Temperature (°C)	23.5
Test Condition	10M	Humidity (%RH)	60

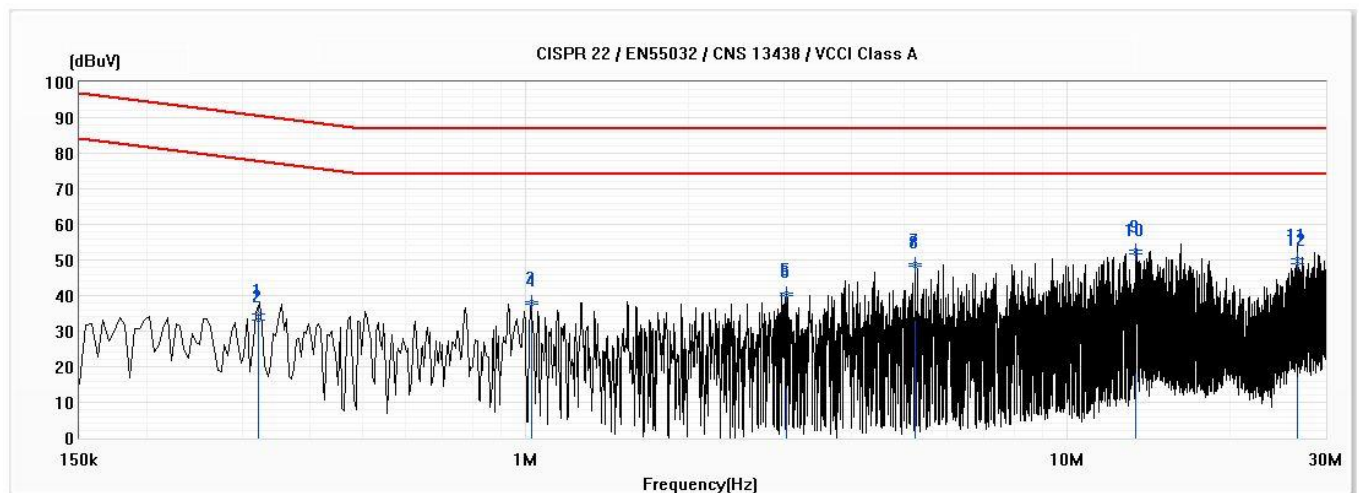


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.258	29.52	92.50	-62.98	19.56	9.97	QP
2	0.258	28.16	79.50	-51.34	18.19	9.97	AV
3	0.773	32.71	87.00	-54.29	22.97	9.75	QP
4	0.773	31.15	74.00	-42.85	21.41	9.75	AV
5	1.574	27.13	87.00	-59.87	17.43	9.71	QP
6	1.574	19.57	74.00	-54.43	9.86	9.71	AV
7	6.302	50.77	87.00	-36.23	41.06	9.71	QP
8	6.302	42.92	74.00	-31.08	33.21	9.71	AV
9	12.500	57.18	87.00	-29.82	47.34	9.84	QP
*10	12.500	48.77	74.00	-25.23	38.92	9.84	AV
11	14.999	41.23	87.00	-45.77	31.33	9.90	QP
12	14.999	30.72	74.00	-43.28	20.81	9.90	AV

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
3. Margin=Emission Level-Limit.

Model No	IB9367-EHT-v2	Site	SR1
Test Voltage	PoE	Test Date	2020/10/23
Test Mode	Mode 2	Engineer	Nilk Chen
Phase	L1	Temperature (°C)	23.5
Test Condition	100M	Humidity (%RH)	60

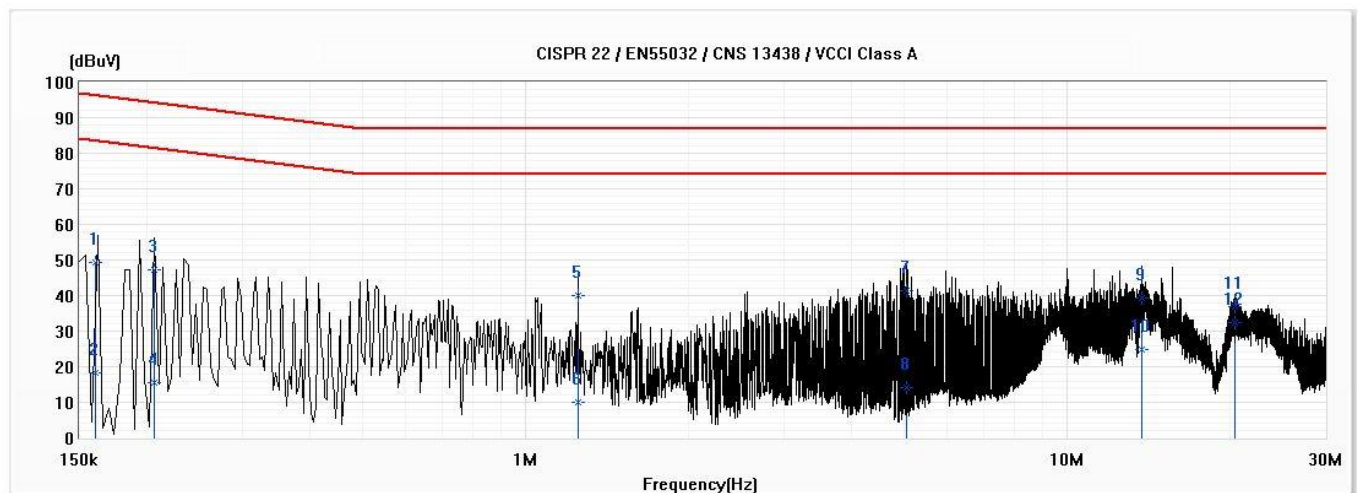


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.321	34.67	90.69	-56.02	24.78	9.89	QP
2	0.321	33.26	77.69	-44.43	23.37	9.89	AV
3	1.023	38.23	87.00	-48.77	28.50	9.73	QP
4	1.023	37.70	74.00	-36.30	27.97	9.73	AV
5	3.038	40.81	87.00	-46.19	31.14	9.67	QP
6	3.038	40.03	74.00	-33.97	30.36	9.67	AV
7	5.236	48.92	87.00	-38.08	39.22	9.70	QP
8	5.236	48.11	74.00	-25.89	38.42	9.70	AV
9	13.358	52.76	87.00	-34.24	42.89	9.86	QP
*10	13.358	51.65	74.00	-22.35	41.79	9.86	AV
11	26.608	50.38	87.00	-36.62	40.12	10.25	QP
12	26.608	49.11	74.00	-24.89	38.86	10.25	AV

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
3. Margin=Emission Level-Limit.

Model No	IB9367-EHT-v2	Site	SR1
Test Voltage	AC 100V/50Hz	Test Date	2020/11/13
Test Mode	Mode 3	Engineer	Shianyu Chiou
Phase	L1	Temperature (°C)	23.5
Test Condition	10M	Humidity (%RH)	60

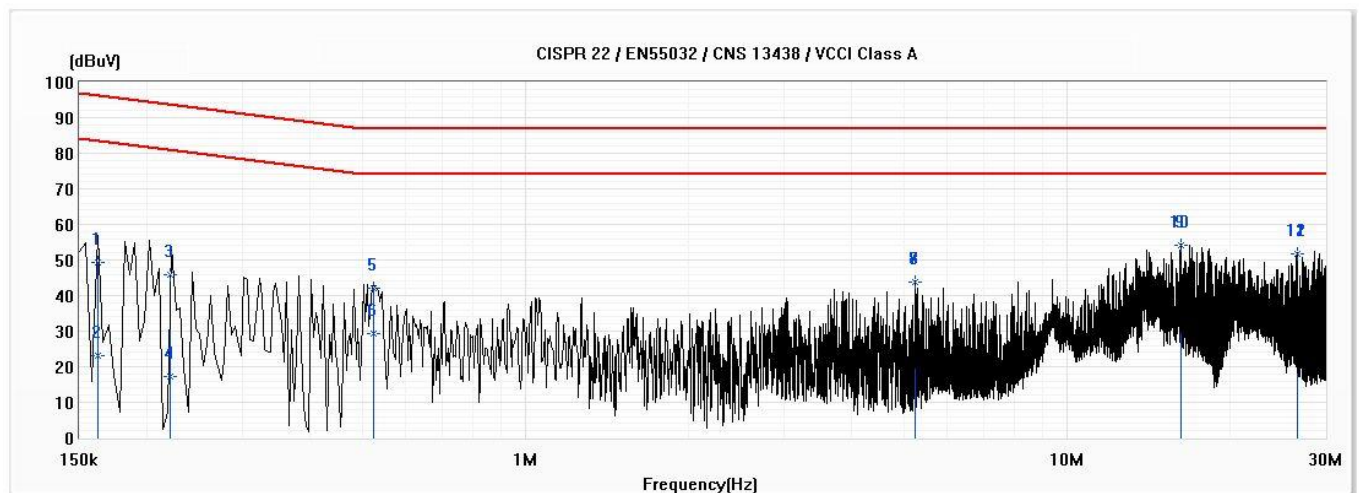


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.160	49.18	96.45	-47.27	38.99	10.19	QP
2	0.160	18.16	83.45	-65.28	7.98	10.19	AV
3	0.206	47.13	94.35	-47.22	37.09	10.04	QP
4	0.206	15.66	81.35	-65.70	5.61	10.04	AV
5	1.250	40.12	87.00	-46.88	30.40	9.72	QP
6	1.250	9.94	74.00	-64.06	0.22	9.72	AV
7	5.056	41.25	87.00	-45.75	31.56	9.69	QP
8	5.056	14.14	74.00	-59.86	4.45	9.69	AV
9	13.730	39.17	87.00	-47.83	29.29	9.87	QP
10	13.730	24.91	74.00	-49.09	15.04	9.87	AV
11	20.352	37.02	87.00	-49.98	26.98	10.03	QP
*12	20.352	32.29	74.00	-41.71	22.26	10.03	AV

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
3. Margin=Emission Level-Limit.

Model No	IB9367-EHT-v2	Site	SR1
Test Voltage	AC 100V/50Hz	Test Date	2020/11/13
Test Mode	Mode 3	Engineer	Shianyu Chiou
Phase	L1	Temperature (°C)	23.5
Test Condition	100M	Humidity (%RH)	60



No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	0.162	49.35	96.36	-47.01	39.17	10.18	QP
2	0.162	23.22	83.36	-60.14	13.04	10.18	AV
3	0.221	46.02	93.79	-47.76	36.00	10.02	QP
4	0.221	17.17	80.79	-63.62	7.15	10.02	AV
5	0.524	41.98	87.00	-45.02	32.19	9.78	QP
6	0.524	29.39	74.00	-44.61	19.61	9.78	AV
7	5.236	43.90	87.00	-43.10	34.21	9.70	QP
8	5.236	43.80	74.00	-30.20	34.11	9.70	AV
9	16.228	54.22	87.00	-32.78	44.29	9.94	QP
*10	16.228	54.08	74.00	-19.92	44.15	9.94	AV
11	26.608	51.84	87.00	-35.16	41.58	10.25	QP
12	26.608	51.74	74.00	-22.26	41.49	10.25	AV

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
3. Margin=Emission Level-Limit.

4.7. Test Photograph

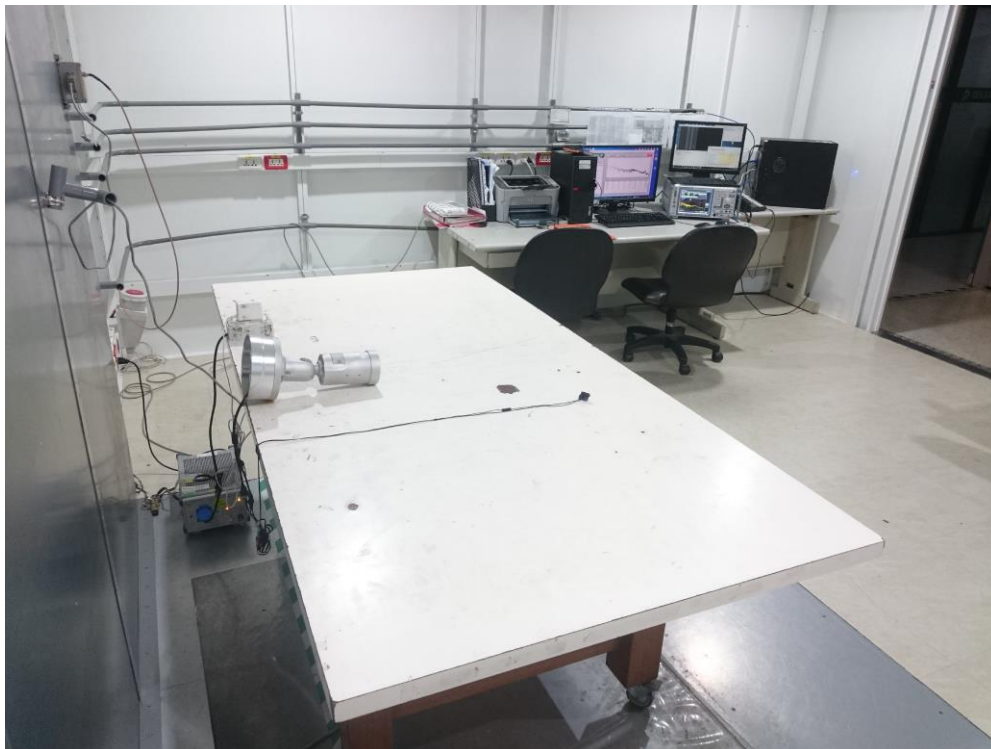
Test Mode : Mode 1: Normal Operation, DC 12V (Adapter)

Description : Front View of ISN Test



Test Mode : Mode 1: Normal Operation, DC 12V (Adapter)

Description : Back View of ISN Test



Test Mode : Mode 2: Normal Operation, PoE

Description : Front View of ISN Test



Test Mode : Mode 2: Normal Operation, PoE

Description : Back View of ISN Test



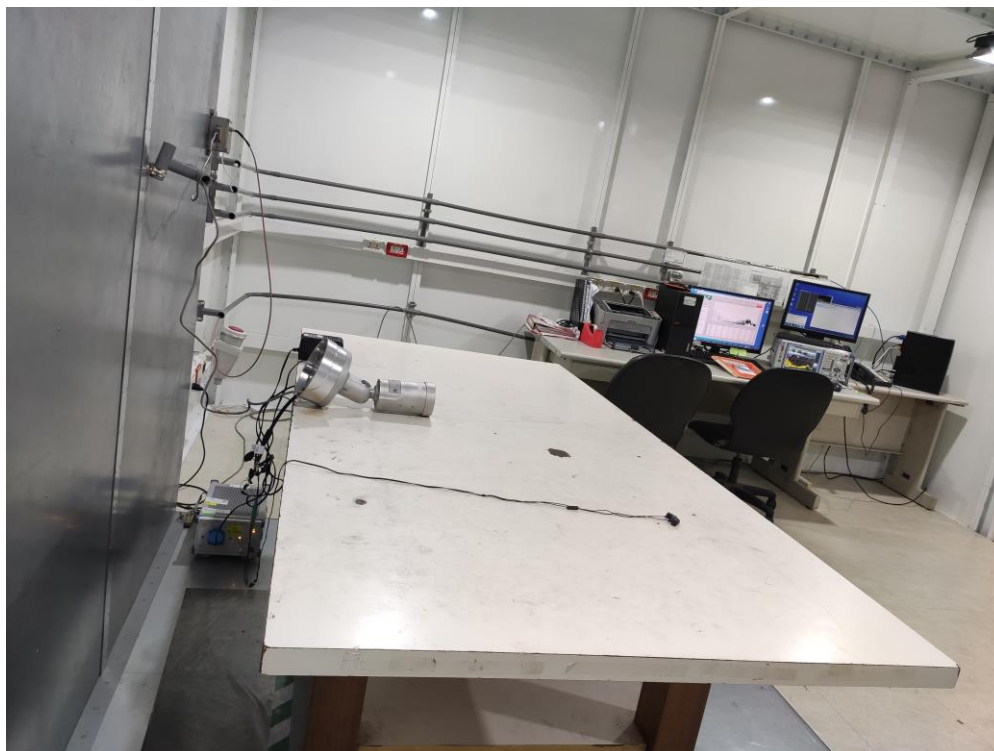
Test Mode : Mode 3: Normal Operation, AC 24V (Adapter)

Description : Front View of ISN Test



Test Mode : Mode 3: Normal Operation, AC 24V (Adapter)

Description : Back View of ISN Test



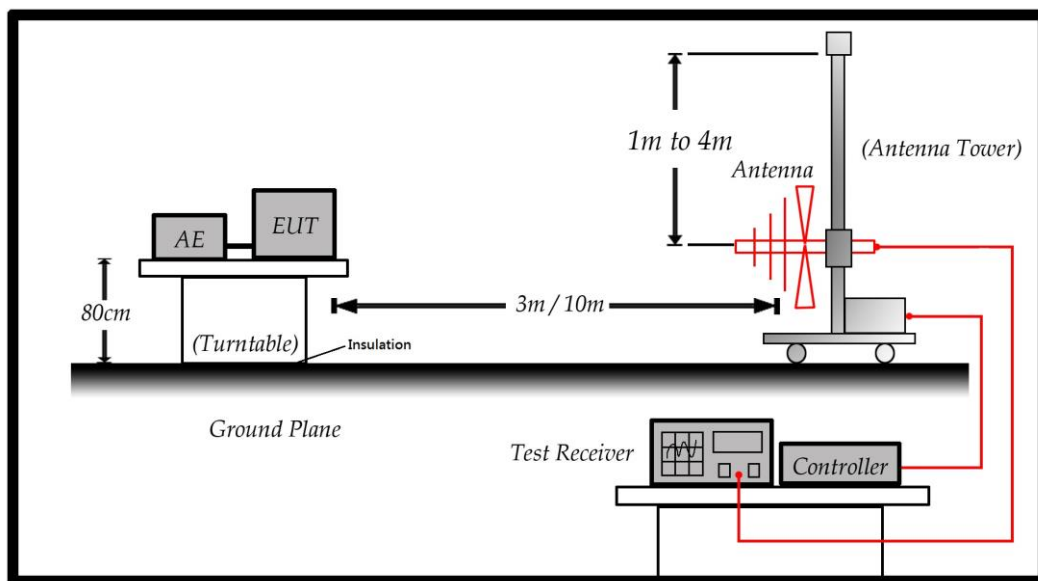
5. Radiated Emission

5.1. Test Specification

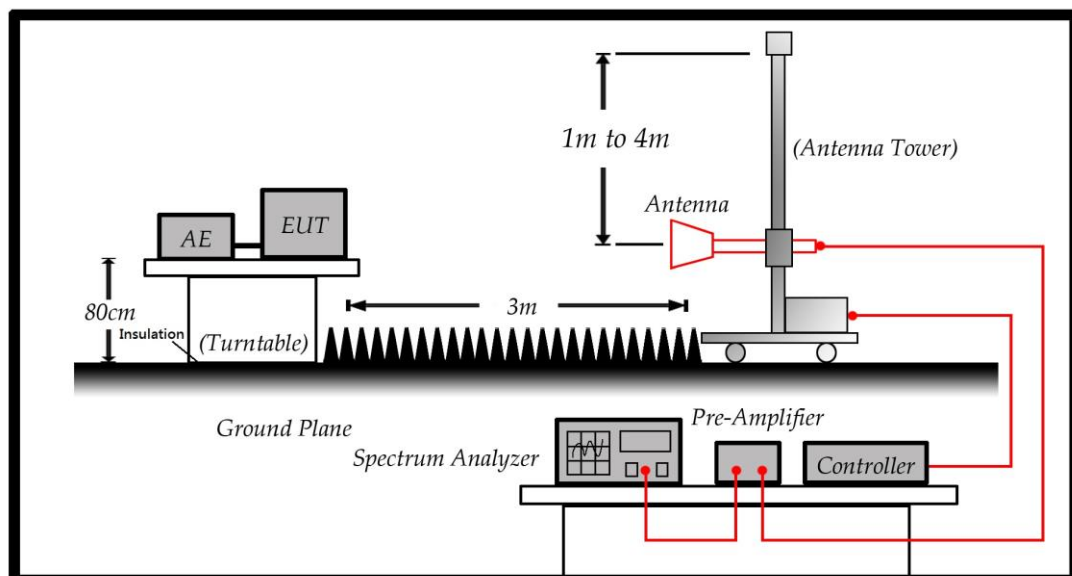
According to EMC Standard: VCCI CISPR 32

5.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



5.3. 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
$F_x \leq 108$ MHz	1 GHz
$108 \text{ MHz} < F_x \leq 500$ MHz	2 GHz
$500 \text{ MHz} < F_x \leq 1$ 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 3.1.18.	

5.4. 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.

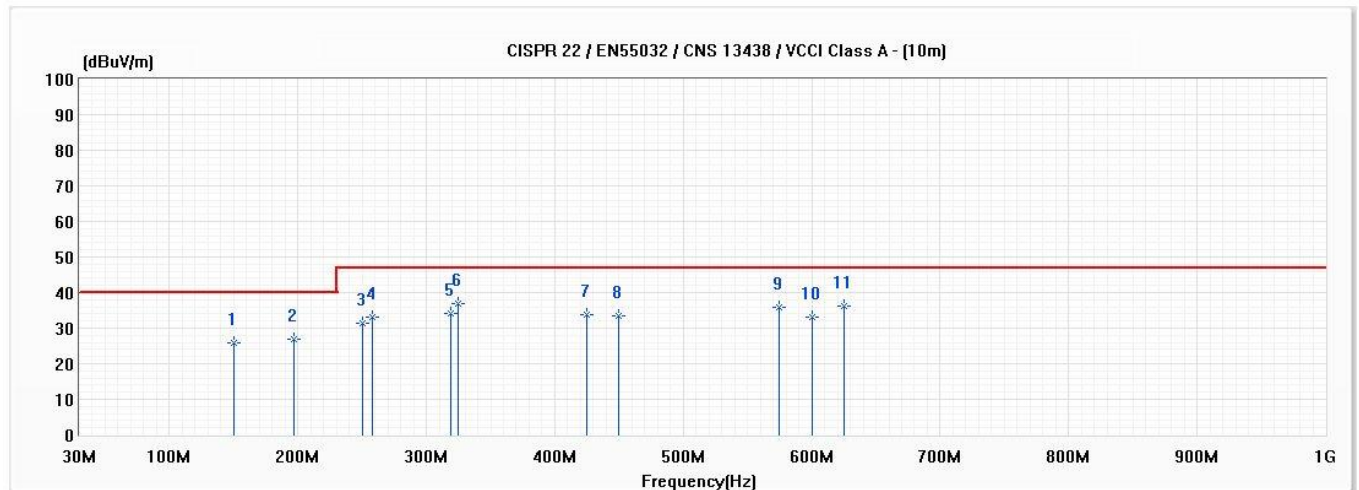
Radiated emissions were investigated over the frequency range from 30MHz to 1GHz using a receiver bandwidth of 120kHz. Radiated was performed at an antenna to EUT distance of 10 meters.

5.5. Deviation from Test Standard

No deviation.

5.6. Test Result

Model No	IB9367-EHT-v2	Site	SITE7
Test Voltage	AC 100V/50Hz	Test Date	2020/10/23
Test Mode	Mode 1	Engineer	Sampras Yen
Polarity	Horizontal	Temperature (°C)	20.7
Test Condition	--	Humidity (%RH)	66

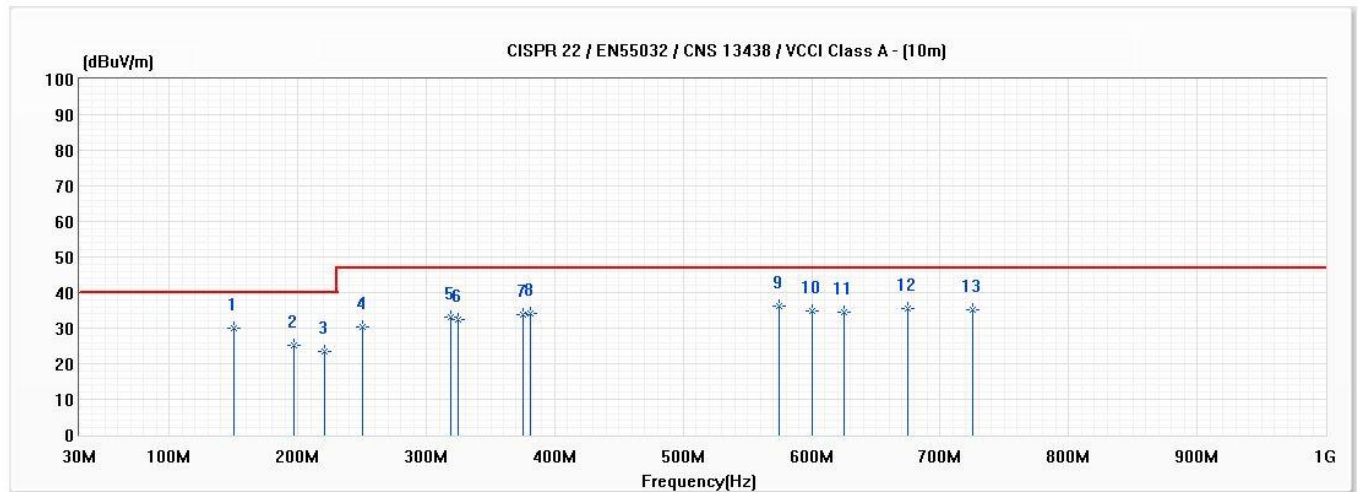


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	150.000	25.95	40.00	-14.05	38.90	-12.95	390	54	QP
2	196.600	26.97	40.00	-13.03	40.50	-13.53	390	52	QP
3	250.000	31.26	47.00	-15.74	40.60	-9.34	380	-46	QP
4	258.000	33.01	47.00	-13.99	41.50	-8.49	365	97	QP
5	319.400	34.19	47.00	-12.81	41.80	-7.61	340	-48	QP
* 6	325.000	36.96	47.00	-10.04	44.50	-7.54	265	39	QP
7	425.000	33.85	47.00	-13.15	37.59	-3.74	205	144	QP
8	450.000	33.55	47.00	-13.45	36.81	-3.26	210	-56	QP
9	575.000	35.98	47.00	-11.02	36.31	-0.33	195	-89	QP
10	600.000	33.09	47.00	-13.91	33.20	-0.11	155	39	QP
11	625.000	36.20	47.00	-10.80	35.60	0.60	150	39	QP

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin= Emission Level - Limit.

Model No	IB9367-EHT-v2	Site	SITE7
Test Voltage	AC 100V/50Hz	Test Date	2020/10/23
Test Mode	Mode 1	Engineer	Sampras Yen
Polarity	Vertical	Temperature (°C)	20.7
Test Condition	--	Humidity (%RH)	66

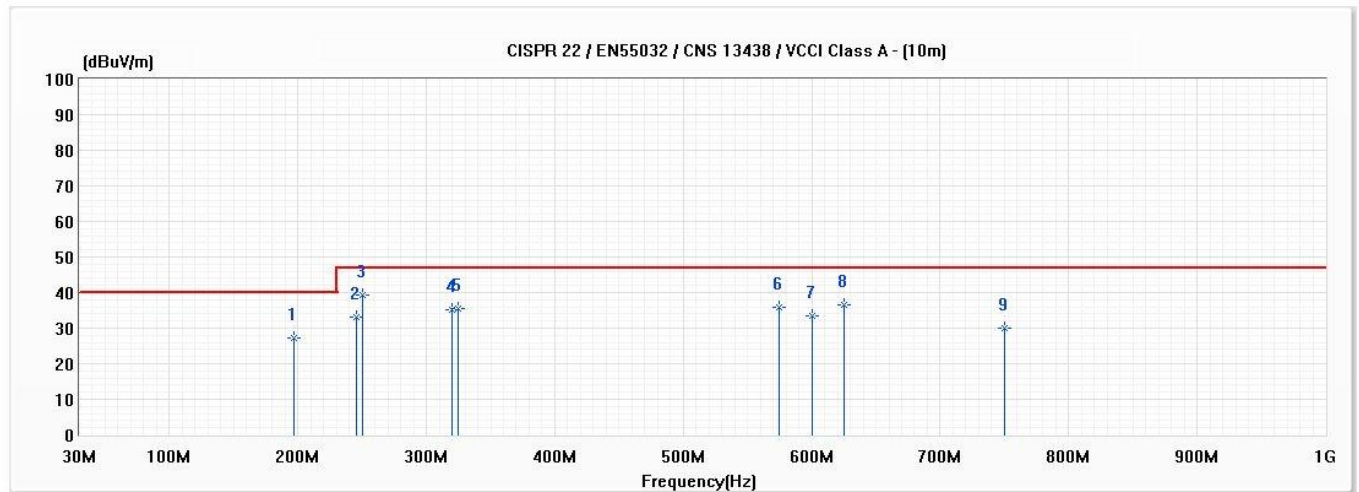


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
* 1	150.000	29.85	40.00	-10.15	42.80	-12.95	100	-48	QP
2	196.600	25.07	40.00	-14.93	38.60	-13.53	100	147	QP
3	221.200	23.37	40.00	-16.63	36.29	-12.92	100	92	QP
4	250.000	30.26	47.00	-16.74	39.60	-9.34	100	98	QP
5	319.400	32.99	47.00	-14.01	40.60	-7.61	100	-48	QP
6	325.000	32.36	47.00	-14.64	39.90	-7.54	100	-48	QP
7	375.000	33.93	47.00	-13.07	39.70	-5.77	100	-58	QP
8	381.000	34.12	47.00	-12.88	39.70	-5.58	100	-29	QP
9	575.000	36.18	47.00	-10.82	36.51	-0.33	325	35	QP
10	600.000	34.69	47.00	-12.31	34.80	-0.11	265	3	QP
11	625.000	34.50	47.00	-12.50	33.90	0.60	246	38	QP
12	675.000	35.61	47.00	-11.39	34.90	0.71	235	36	QP
13	725.000	35.13	47.00	-11.87	33.30	1.83	260	-48	QP

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin= Emission Level - Limit.

Model No	IB9367-EHT-v2	Site	SITE7
Test Voltage	PoE	Test Date	2020/10/23
Test Mode	Mode 2	Engineer	Sampras Yen
Polarity	Horizontal	Temperature (°C)	20.7
Test Condition	--	Humidity (%RH)	66

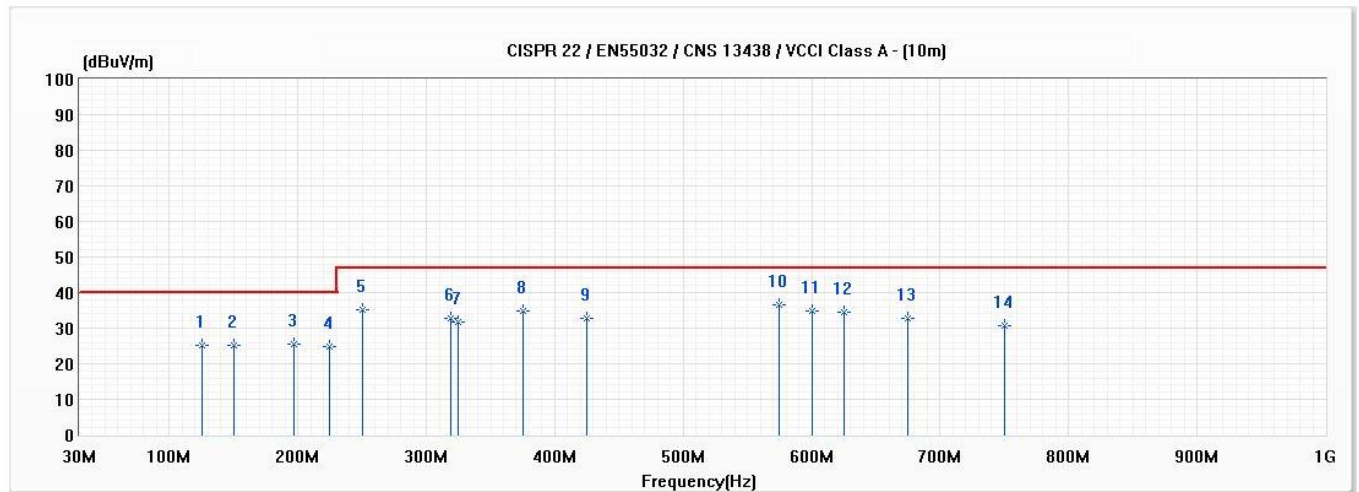


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	196.600	27.07	40.00	-12.93	40.60	-13.53	390	-52	QP
2	245.750	33.22	47.00	-13.78	43.19	-9.97	380	62	QP
* 3	250.000	39.46	47.00	-7.54	48.80	-9.34	375	39	QP
4	319.480	35.19	47.00	-11.81	42.79	-7.60	260	-48	QP
5	325.000	35.66	47.00	-11.34	43.20	-7.54	265	36	QP
6	575.000	35.88	47.00	-11.12	36.21	-0.33	195	182	QP
7	599.980	33.39	47.00	-13.61	33.50	-0.11	160	32	QP
8	625.000	36.60	47.00	-10.40	36.00	0.60	140	59	QP
9	750.000	29.85	47.00	-17.15	27.50	2.35	120	32	QP

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin= Emission Level - Limit.

Model No	IB9367-EHT-v2	Site	SITE7
Test Voltage	PoE	Test Date	2020/10/23
Test Mode	Mode 2	Engineer	Sampras Yen
Polarity	Vertical	Temperature (°C)	20.7
Test Condition	--	Humidity (%RH)	66

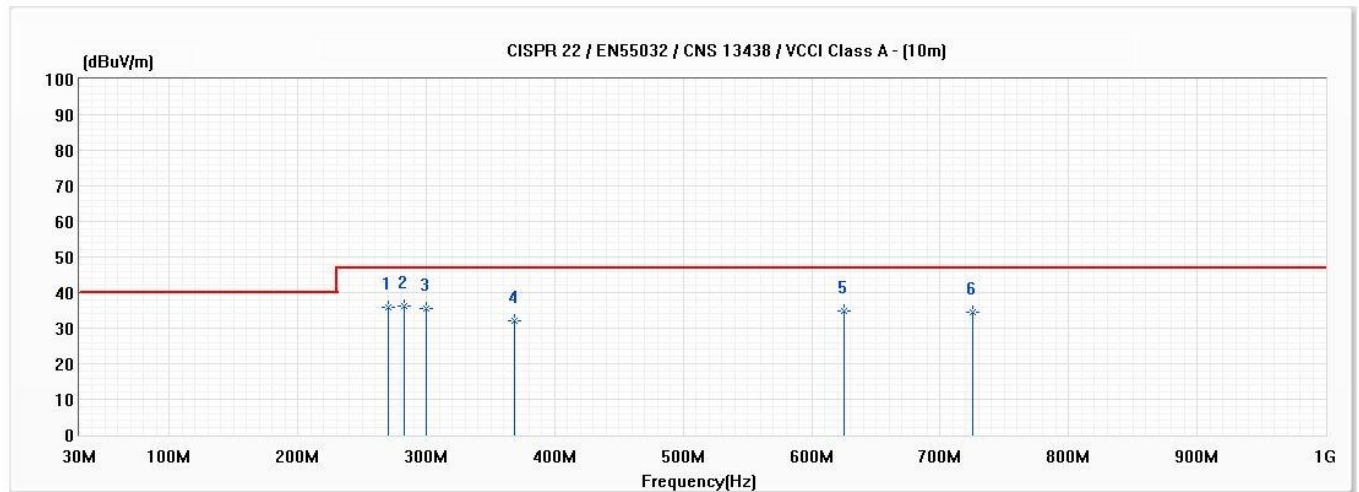


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	125.000	25.20	40.00	-14.80	36.80	-11.60	100	-49	QP
2	150.000	25.05	40.00	-14.95	38.00	-12.95	100	-58	QP
3	196.600	25.67	40.00	-14.33	39.20	-13.53	100	65	QP
4	225.000	24.89	40.00	-15.11	37.39	-12.50	100	-46	QP
5	250.000	35.26	47.00	-11.74	44.60	-9.34	100	94	QP
6	319.400	32.59	47.00	-14.41	40.20	-7.61	100	-48	QP
7	325.000	31.86	47.00	-15.14	39.40	-7.54	100	-58	QP
8	375.000	34.83	47.00	-12.17	40.60	-5.77	100	95	QP
9	425.000	32.85	47.00	-14.15	36.59	-3.74	350	-49	QP
* 10	575.000	36.48	47.00	-10.52	36.81	-0.33	2295	39	QP
11	600.000	34.69	47.00	-12.31	34.80	-0.11	260	32	QP
12	625.000	34.40	47.00	-12.60	33.80	0.60	240	-59	QP
13	675.000	32.61	47.00	-14.39	31.90	0.71	225	36	QP
14	750.000	30.65	47.00	-16.35	28.30	2.35	265	59	QP

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin= Emission Level - Limit.

Model No	IB9367-EHT-v2	Site	SITE7
Test Voltage	AC 100V/50Hz	Test Date	2020/11/16
Test Mode	Mode 3	Engineer	Sampras Yen
Polarity	Horizontal	Temperature (°C)	22.1
Test Condition	--	Humidity (%RH)	56

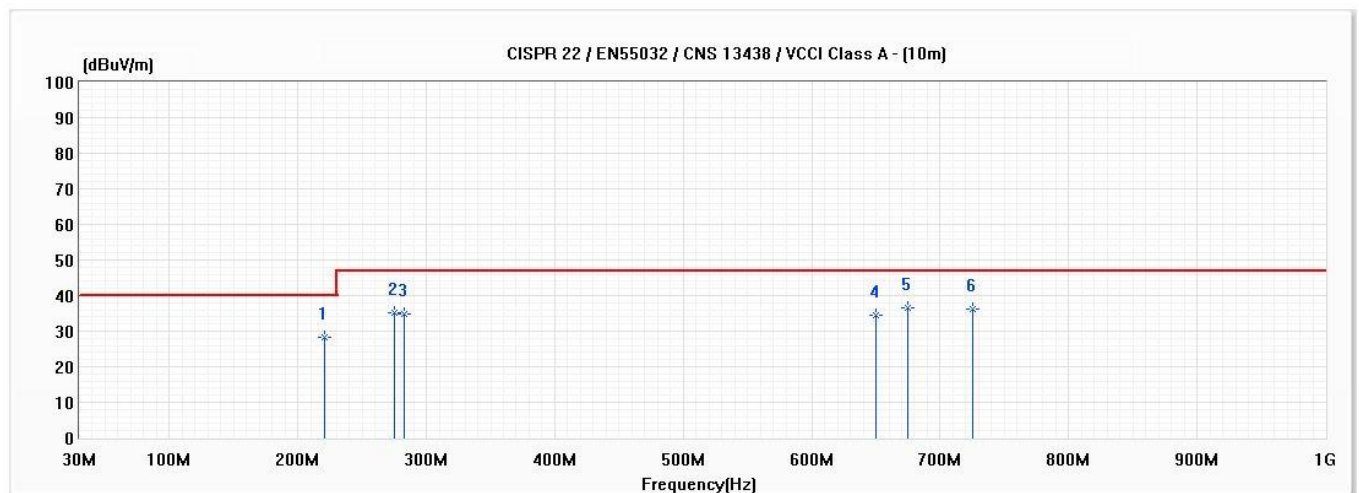


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	270.300	35.99	47.00	-11.01	45.00	-9.01	390	-94	QP
* 2	282.610	36.08	47.00	-10.92	44.80	-8.72	360	22	QP
3	300.000	35.63	47.00	-11.37	44.00	-8.37	320	36	QP
4	368.620	31.94	47.00	-15.06	38.00	-6.06	260	32	QP
5	625.000	35.00	47.00	-12.00	34.60	0.40	150	25	QP
6	725.000	34.43	47.00	-12.57	33.00	1.43	110	-41	QP

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin= Emission Level - Limit.

Model No	IB9367-EHT-v2	Site	SITE7
Test Voltage	AC 100V/50Hz	Test Date	2020/11/16
Test Mode	Mode 3	Engineer	Sampras Yen
Polarity	Vertical	Temperature (°C)	22.1
Test Condition	--	Humidity (%RH)	56

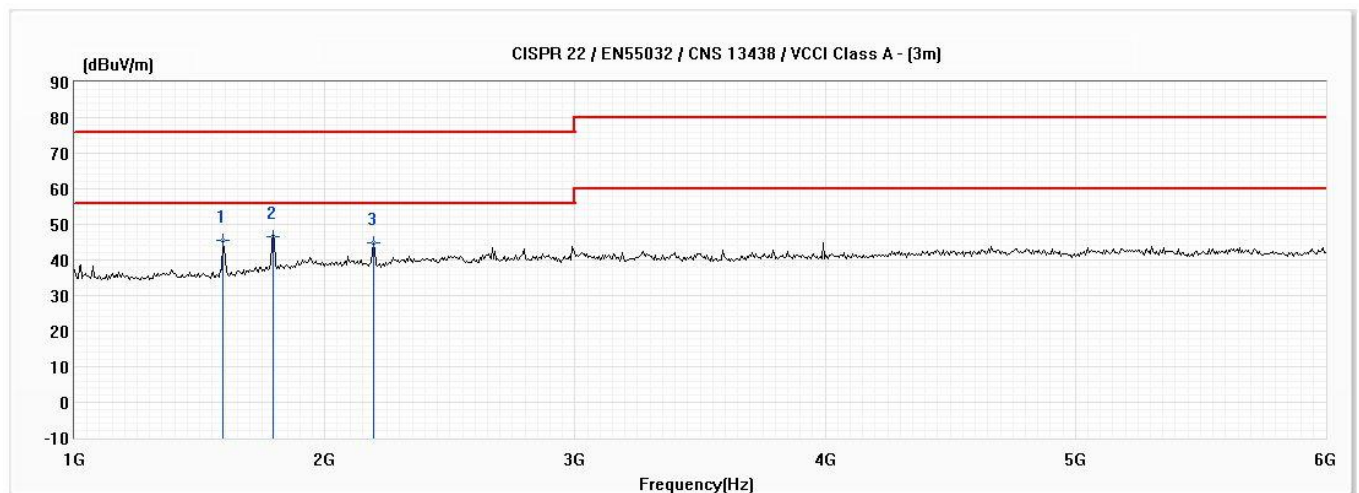


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	221.200	28.15	40.00	-11.85	41.19	-13.04	100	94	QP
2	275.000	35.25	47.00	-11.75	44.21	-8.96	100	143	QP
3	282.600	34.88	47.00	-12.12	43.60	-8.72	100	96	QP
4	650.000	34.41	47.00	-12.59	33.91	0.50	230	-41	QP
* 5	675.000	36.51	47.00	-10.49	35.80	0.71	260	31	QP
6	725.000	36.04	47.00	-10.96	34.61	1.43	310	94	QP

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin= Emission Level - Limit.

Model No	IB9367-EHT-v2	Site	CB7
Test Voltage	AC 100V/50Hz	Test Date	2020/10/30
Test Mode	Mode 1	Engineer	Sam Chen
Polarity	Horizontal	Temperature (°C)	23
Test Condition	--	Humidity (%RH)	68

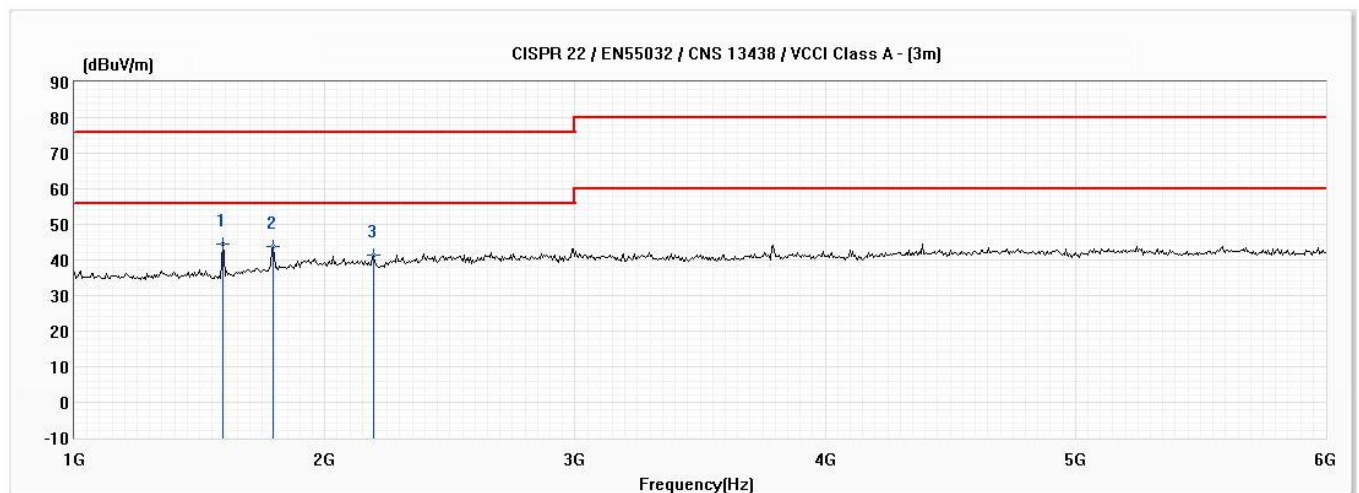


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	1595.000	45.56	76.00	-30.44	58.50	-12.94	125	21	PK
* 2	1795.000	46.45	76.00	-29.55	57.20	-10.75	110	0	PK
3	2195.000	44.72	76.00	-31.28	53.50	-8.78	100	51	PK

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor (Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin= Emission Level-Limit.
4. The above 1 GHz test. When PEAK measures level less than AV limit by 20 dBuV, its average is not measured separately.

Model No	IB9367-EHT-v2	Site	CB7
Test Voltage	AC 100V/50Hz	Test Date	2020/10/30
Test Mode	Mode 1	Engineer	Sam Chen
Polarity	Vertical	Temperature (°C)	23
Test Condition	--	Humidity (%RH)	68

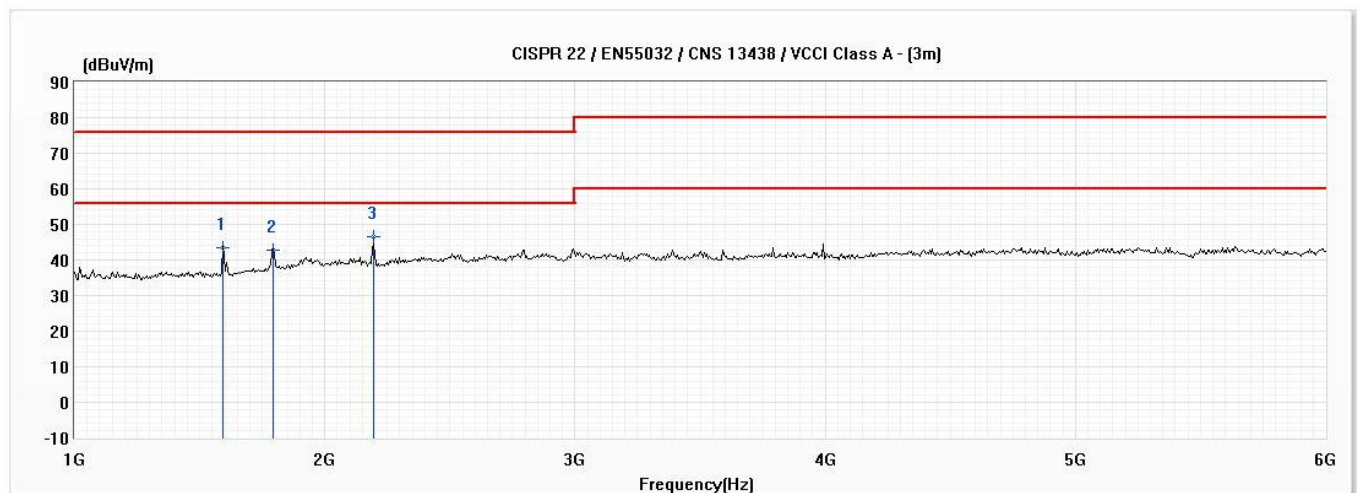


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
* 1	1595.000	44.65	76.00	-31.35	57.59	-12.94	150	47	PK
2	1795.000	43.72	76.00	-32.28	54.47	-10.75	120	-10	PK
3	2195.000	41.38	76.00	-34.62	50.16	-8.78	115	0	PK

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor (Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin= Emission Level-Limit.
4. The above 1 GHz test. When PEAK measures level less than AV limit by 20 dBuV, its average is not measured separately.

Model No	IB9367-EHT-v2	Site	CB7
Test Voltage	PoE	Test Date	2020/10/30
Test Mode	Mode 2	Engineer	Sam Chen
Polarity	Horizontal	Temperature (°C)	23
Test Condition	--	Humidity (%RH)	68

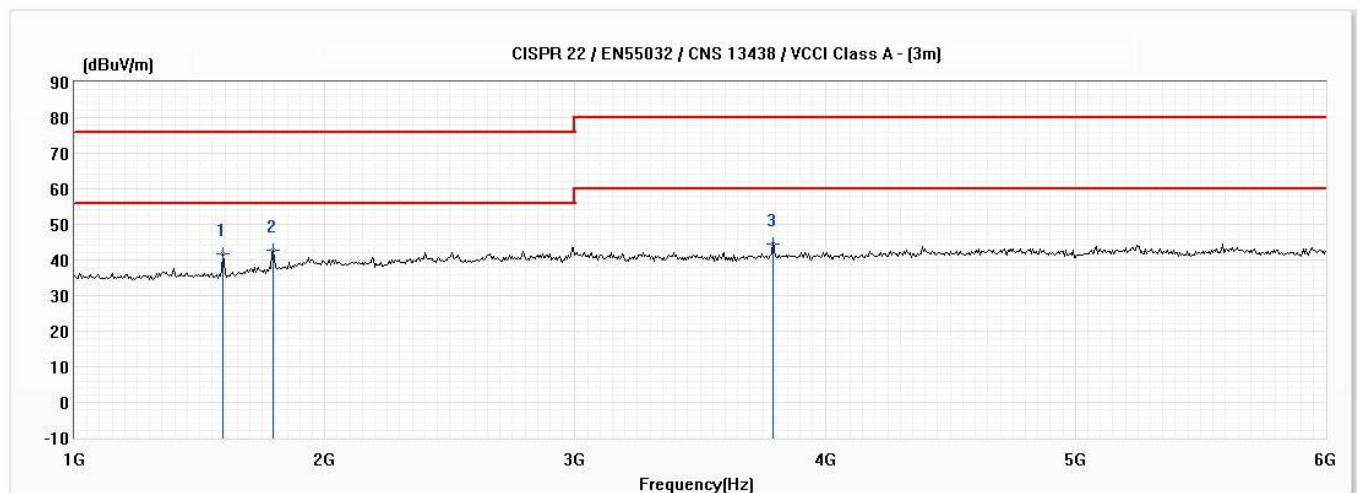


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	1595.000	43.62	76.00	-32.38	56.56	-12.94	100	-51	PK
2	1795.000	42.80	76.00	-33.20	53.55	-10.75	100	152	PK
* 3	2195.000	46.56	76.00	-29.44	55.34	-8.78	185	95	PK

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor (Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin= Emission Level-Limit.
4. The above 1 GHz test. When PEAK measures level less than AV limit by 20 dBuV, its average is not measured separately.

Model No	IB9367-EHT-v2	Site	CB7
Test Voltage	PoE	Test Date	2020/10/30
Test Mode	Mode 2	Engineer	Sam Chen
Polarity	Vertical	Temperature (°C)	23
Test Condition	--	Humidity (%RH)	68

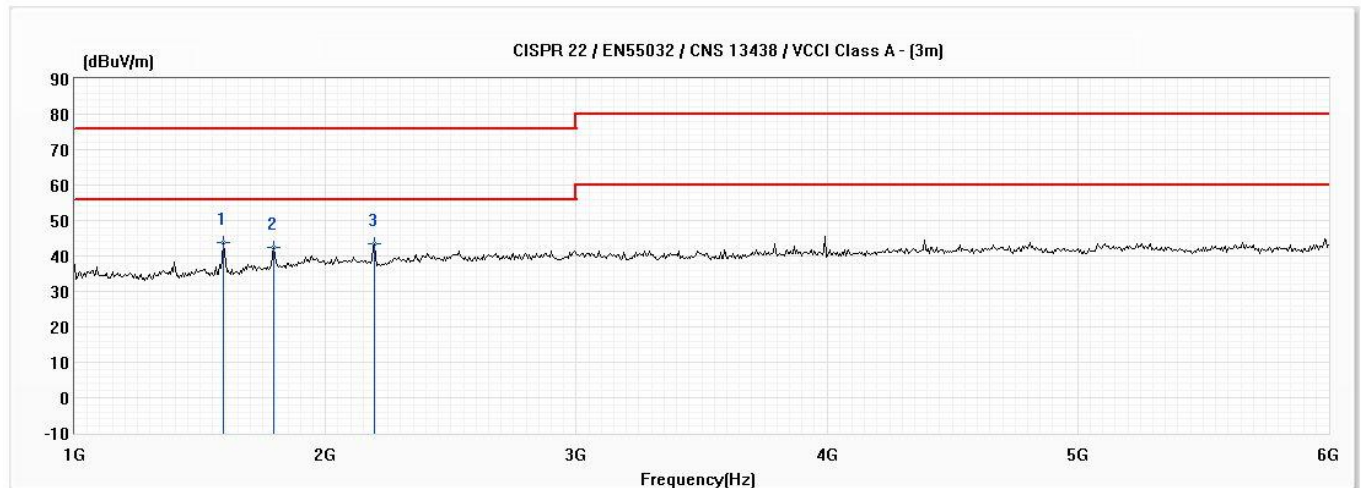


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	1595.000	41.89	76.00	-34.11	54.83	-12.94	100	-50	PK
* 2	1795.000	42.75	76.00	-33.25	53.50	-10.75	125	-110	PK
3	3790.000	44.62	80.00	-35.38	49.01	-4.39	100	51	PK

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor (Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin= Emission Level-Limit.
4. The above 1 GHz test. When PEAK measures level less than AV limit by 20 dBuV, its average is not measured separately.

Model No	IB9367-EHT-v2	Site	CB7
Test Voltage	AC 100V/50Hz	Test Date	2020/11/13
Test Mode	Mode 3	Engineer	Sam Chen
Polarity	Horizontal	Temperature (°C)	22
Test Condition	--	Humidity (%RH)	75

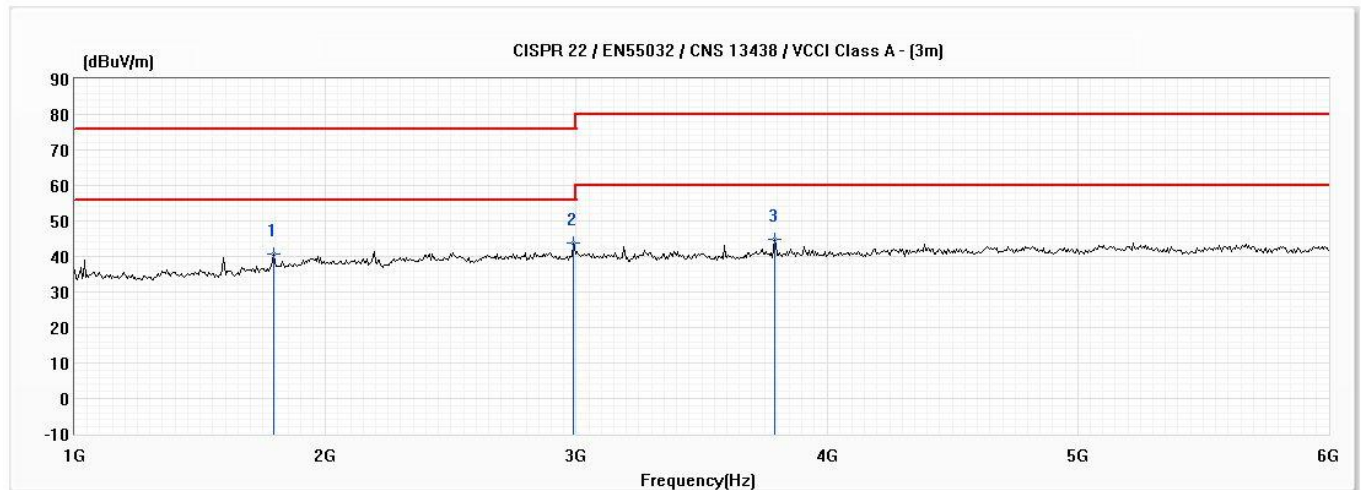


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
* 1	1595.000	43.67	76.00	-32.33	63.27	-19.60	100	52	PK
2	1795.000	42.38	76.00	-33.62	59.91	-17.53	100	142	PK
3	2195.000	43.55	76.00	-32.45	59.39	-15.84	182	-152	PK

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor (Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin= Emission Level-Limit.
4. The above 1 GHz test. When PEAK measures level less than AV limit by 20 dBuV, its average is not measured separately.

Model No	IB9367-EHT-v2	Site	CB7
Test Voltage	AC 100V/50Hz	Test Date	2020/11/13
Test Mode	Mode 3	Engineer	Sam Chen
Polarity	Vertical	Temperature (°C)	22
Test Condition	--	Humidity (%RH)	75



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	1795.000	40.82	76.00	-35.18	58.35	-17.53	100	-11	PK
* 2	2990.000	43.71	76.00	-32.29	57.18	-13.47	125	-66	PK
3	3790.000	44.70	80.00	-35.30	57.13	-12.43	100	61	PK

Remark:

1. "*" means this data is the worst emission level; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor (Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin= Emission Level-Limit.
4. The above 1 GHz test. When PEAK measures level less than AV limit by 20 dBuV, its average is not measured separately.

5.7. Test Photograph

Test Mode : Mode 1: Normal Operation, DC 12V (Adapter)

Description : Front View of Radiated Test



Test Mode : Mode 1: Normal Operation, DC 12V (Adapter)

Description : Back View of Radiated Test



Test Mode : Mode 1: Normal Operation, DC 12V (Adapter)

Description : Front View of High Frequency Radiated Test



Test Mode : Mode 2: Normal Operation, PoE

Description : Front View of Radiated Test



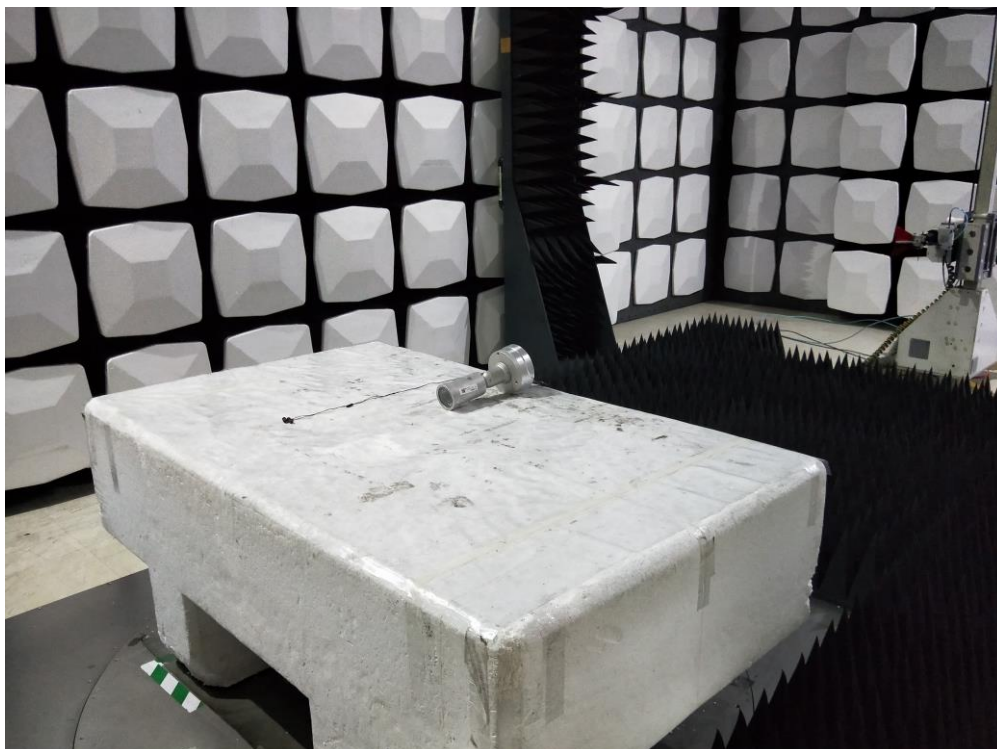
Test Mode : Mode 2: Normal Operation, PoE

Description : Back View of Radiated Test



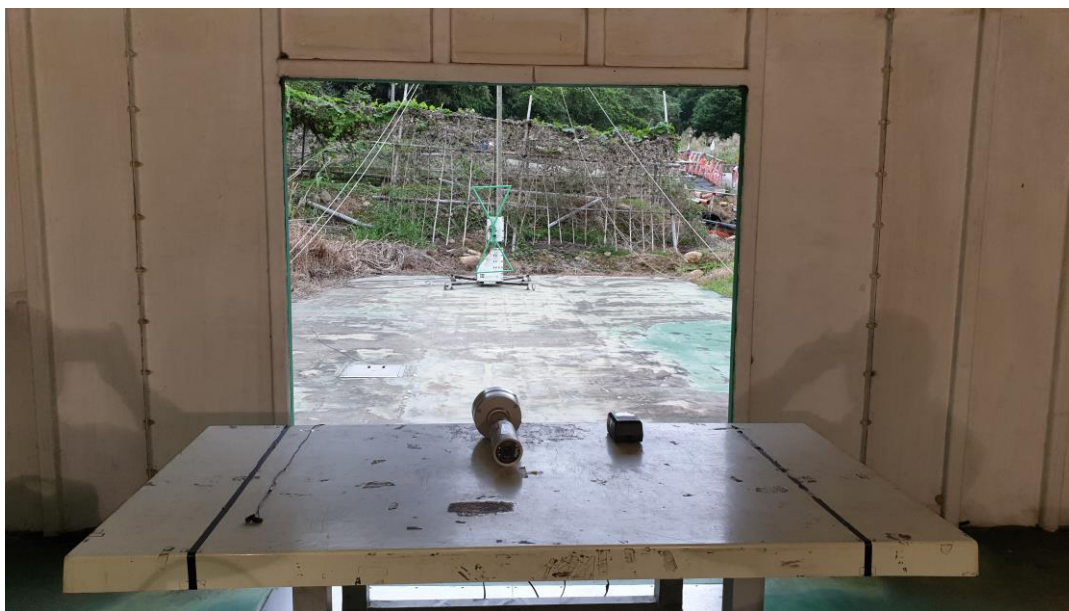
Test Mode : Mode 2: Normal Operation, PoE

Description : Front View of High Frequency Radiated Test



Test Mode : Mode 3: Normal Operation, AC 24V (Adapter)

Description : Front View of Radiated Test



Test Mode : Mode 3: Normal Operation, AC 24V (Adapter)

Description : Back View of Radiated Test



Test Mode : Mode 3: Normal Operation, AC 24V (Adapter)

Description : Front View of High Frequency Radiated Test



6. Attachment

➤ **EUT Photograph**

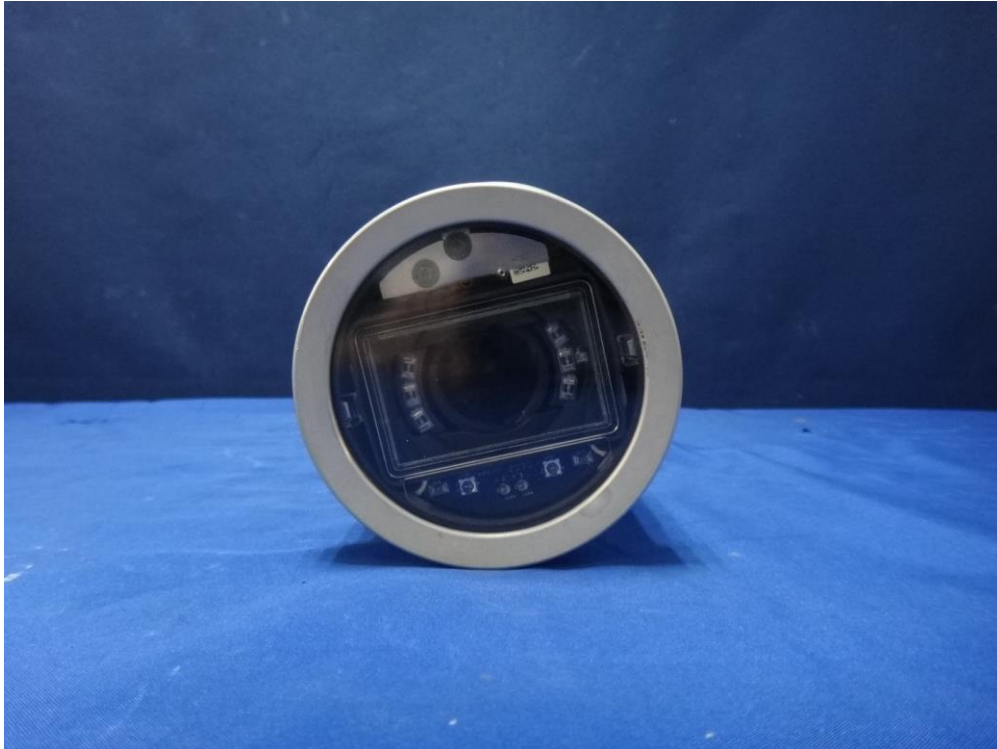
(1) EUT Photo



(2) EUT Photo



(3) EUT Photo



(4) EUT Photo

