



IC Test Report

Issued date: Oct. 20, 2023

Project No.: 23Q092604

Product : Network Camera

Model : FD9187-HT-V3, FD9387-EHTV-V3, FD9387-FR-V3, FD811-HT, FD831-EHTV

Applicant : VIVOTEK INC.

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

Report No: WD-EI-R-230320-A0

According to

ICES-003: 2020 Issue 7, Class B

ANSI C63.4: 2014

ANSI C63.4a: 2017

Authorized Signatory :  / Ken Huang



Wendell Industrial Co., Ltd
Wendell EMC & RF Laboratory

Add: 5F-1, No. 188, Baoqiao Road, Xindian District, New Taipei City 23145, Taiwan R.O.C.



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History of this test report

Report No.	Issue date	Description
WD-EI-R-230320-A0	Oct. 20, 2023	Initial Issue

Declaration

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us.



History of supplementary report

Report No.	Issue date	Description
WD-EI-R-230320-A0	Oct. 20, 2023	Original report

Declaration

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us.



1 Certification

Product: Network Camera

Brand Name: VIVOTEK

Model: FD9187-HT-V3, FD9387-EHTV-V3, FD9387-FR-V3, FD811-HT, FD831-EHTV

Applicant: VIVOTEK INC.

Tested: Oct. 03 ~ Oct. 13, 2023

Standard: ICES-003: 2020 Issue 7, Class B

ANSI C63.4: 2014

ANSI C63.4a: 2017

The above equipment (Model: FD9187-HT-V3) has been tested by **Wendell EMC & RF Laboratory**, and found compliance with the requirement of the above standards. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Please note that the measurement uncertainty are provided for informational purpose only and are not used in determining the Pass/Fail results.



1.1 Summary of Test Result

The EUT has been tested according to the following specifications:

Emission				
Standard	Test Item	Limit	Result	Remark
ICES-003	Conducted disturbance at mains terminals	Class B	Pass	Meets the requirements
	Radiated disturbance	Class B	Pass	Meets the requirements

Note: Test record contained in the referenced test report relate only to the EUT sample and test item.



2 Test Configuration of Equipment Under Test

2.1 Test Facility

Conducted disturbance at mains terminals Test

W01: 5F-1, No.188, Baoqiao Rd., Xindian Dist., New Taipei City 23145, Taiwan (R.O.C)

Conducted disturbance at mains terminals and Radiated emission (9*6*6 Chamber) Tests

W08: No.119, Wugong 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C)

ACCREDITATIONS

The laboratories are accredited and approved by the TAF according to ISO/IEC 17025.

2.2 Measurement Uncertainty

The measurement instrumentation uncertainty is evaluated according to CISPR 16-4-2.

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

Wendell EMC & RF Laboratory U_{lab} is less than U_{cispr} , therefore compliance or non-compliance with a disturbance limit shall be determined in the following manner.

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

Please note that the measurement uncertainty (U_{lab}) is provided for informational purpose only and is not used in determining the Pass/Fail results.

2.2.1 Conducted Emission test

Test Site	Measurement Freq. Range	dB (U_{lab})	Note
W01-CE	150 kHz ~ 30 MHz	2.75	N/A
W08-CE	150 kHz ~ 30 MHz	2.76	N/A

2.2.2 Radiated Emission test

Test Site	Measurement Freq. Range	Ant	dB (U_{lab})	Note
W08-966-1	30 MHz ~ 200 MHz	V	3.78	N/A
	30 MHz ~ 200 MHz	H	2.69	N/A
	200 MHz ~ 1000 MHz	V	4.91	N/A
	200 MHz ~ 1000 MHz	H	3.40	N/A
	1 GHz ~ 6 GHz	V	4.48	N/A
	1 GHz ~ 6 GHz	H	4.33	N/A
	6 GHz ~ 18 GHz	V	4.56	N/A
	6 GHz ~ 18 GHz	H	4.56	N/A
	18 GHz ~ 40 GHz	V	4.42	N/A
	18 GHz ~ 40 GHz	H	4.42	N/A



3 General Information

3.1 Description of EUT

Product	Network Camera
Brand	VIVOTEK
Model	FD9187-HT-V3, FD9387-EHTV-V3, FD9387-FR-V3, FD811-HT, FD831-EHTV
Applicant	VIVOTEK INC.
Received Date	Sep. 26, 2023
EUT Power Rating	24Vac (from AC-AC adapter) or 12Vdc (from AC-DC adapter) or 55Vdc (PoE injector)
Model Differences	Refer to Note for more details
Operating System	N/A
Data Cable Supplied	N/A
Accessory Device	N/A
I/O Port	Please refer to the User's Manual

Note:

- The following models are provided to this EUT. The series model information is provided by client.

Brand Name	Model	Difference
VIVOTEK	FD9187-HT-V3	Plastic enclosure
	FD811-HT	
	FD9387-EHTV-V3	Metal enclosure
	FD9387-FR-V3	
	FD831-EHTV	

- The EUT's highest operating frequency is 2133MHz. Therefore the radiated emission is tested up to 11GHz.

3.2 Description of Test Modes

For conducted emission, the EUT has been pre-tested under the following test modes, and **test mode 1 and 4** were the worst case for final test.

Test Mode	Test Condition
1	Model: FD9187-HT-V3 / AC-AC adapter mode, IR ON
2	Model: FD9187-HT-V3 / AC-AC adapter mode, IR OFF
3	Model: FD9187-HT-V3 / AC-DC adapter mode, IR ON
4	Model: FD9187-HT-V3 / AC-DC adapter mode, IR OFF

For radiated emission, the EUT has been pre-tested under the following test modes, and **test mode 1, 3 and 5** were the worst case for final test.

Test Mode	Test Condition
1	Model: FD9187-HT-V3 / AC-AC adapter mode, IR ON
2	Model: FD9187-HT-V3 / AC-AC adapter mode, IR OFF
3	Model: FD9187-HT-V3 / AC-DC adapter mode, IR ON
4	Model: FD9187-HT-V3 / AC-DC adapter mode, IR OFF
5	Model: FD9187-HT-V3, PoE mode, IR ON
6	Model: FD9187-HT-V3, PoE mode, IR OFF
7	Model: FD9387-EHTV-V3 / AC-AC adapter mode, IR ON
8	Model: FD9387-EHTV-V3 / AC-AC adapter mode, IR OFF
9	Model: FD9387-EHTV-V3 / AC-DC adapter mode, IR ON
10	Model: FD9387-EHTV-V3 / AC-DC adapter mode, IR OFF
11	Model: FD9387-EHTV-V3, PoE mode, IR ON
12	Model: FD9387-EHTV-V3, PoE mode, IR OFF

Test results are presented in the report as below.

Test Mode	Test Condition
Conducted emission test	
A	Model: FD9187-HT-V3 / AC-AC adapter mode, IR ON
B	Model: FD9187-HT-V3 / AC-DC adapter mode, IR OFF
Radiated emission 30MHz ~ 1GHz test	
A	Model: FD9187-HT-V3 / AC-AC adapter mode, IR ON
B	Model: FD9187-HT-V3 / AC-DC adapter mode, IR ON
C	Model: FD9187-HT-V3, PoE mode, IR ON
Radiated emission above 1GHz test	
A	Model: FD9187-HT-V3 / AC-AC adapter mode, IR ON
B	Model: FD9187-HT-V3 / AC-DC adapter mode, IR ON
C	Model: FD9187-HT-V3, PoE mode, IR ON

3.3 EUT Operating Condition

Adapter mode

- a. Placed the EUT on the test table.
- b. Prepare PC to act as a communication partner and placed it outside of testing area.
- c. The EUT was connected to the PC with LAN cable.
- d. The communication partner sent data to EUT by command "ping" via LAN.
- e. The EUT sent video signal to PC via LAN cable.
- f. The microphone sent voice signal to EUT.
- g. The EUT sent voice signal to earphone.
- h. The EUT write data with Micro SD card.

PoE mode

- a. Placed the EUT on the test table.
- b. Prepare PC and PoE injector to act as a communication partner and placed it outside of testing area.
- c. The EUT was connected to PC via LAN and PoE.
- d. The communication partner sent data to EUT by command "ping" via LAN.
- e. The EUT sent video signal to PC via LAN cable.
- f. The microphone sent voice signal to EUT.
- g. The EUT sent voice signal to earphone.
- h. The EUT write data with Micro SD card.



3.4 Description of Support Unit

The EUT has been conducted testing with other necessary accessories or support units.

Item	Equipment	Brand	Model No.	Serial No.	FCC ID	Data Cable	Power Cable	Remark
1	Desktop PC	DELL	D13M	H6K10 A00	FCC DoC Approved	20m CAT.5E non-shielded RJ45 cable (for adapter mode) 1m CAT.5E non-shielded RJ45 cable (for PoE mode)	1.8m non-shielded cable	-
2	PoE injector	PowerDsine	PD-9601G/A C	N/A	N/A	20m CAT.5E non-shielded RJ45 cable	1.8m non-shielded cable	Supplied by client
3	Earphone & microphone	E-books	E-EPA057	N/A	N/A	1.4m non-shielded cable	N/A	-
4	Micro SD card	ADATA	32GB	N/A	N/A	N/A	N/A	-
5	Grounding wire	N/A	N/A	N/A	N/A	1m non-shielded cable	N/A	-

- Note:**
1. The core(s) is(are) originally attached to the cable(s).
 2. Item 1-2 acted as communication partners to transfer data.
 3. The EUT uses the follow adapter and PoE injector:

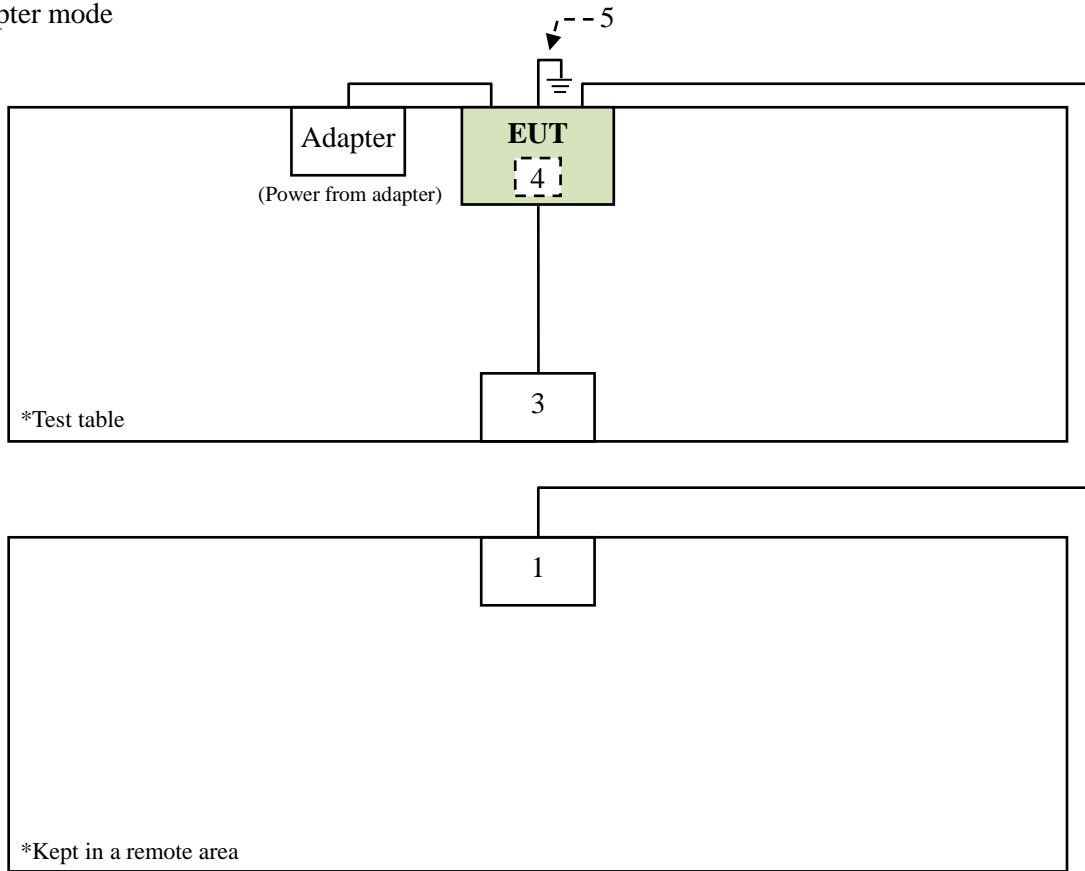
AC-AC adapter (support unit only)	
Brand	N/A
Model	TAA66-2403500AS
Input Power	240Vac, 50Hz
Output Power	24Vac, 3500mA
Power line	Input: 1.8m non-shielded cable Output: 1.8m non-shielded cable

AC-DC adapter (support unit only)	
Brand	DEE VAN
Model	DSA-42PFH-12L
Input Power	100-240Vac, 1.2A, 50/60Hz
Output Power	12Vdc, 3.5A
Power line	Output: 1.8m non-shielded cable

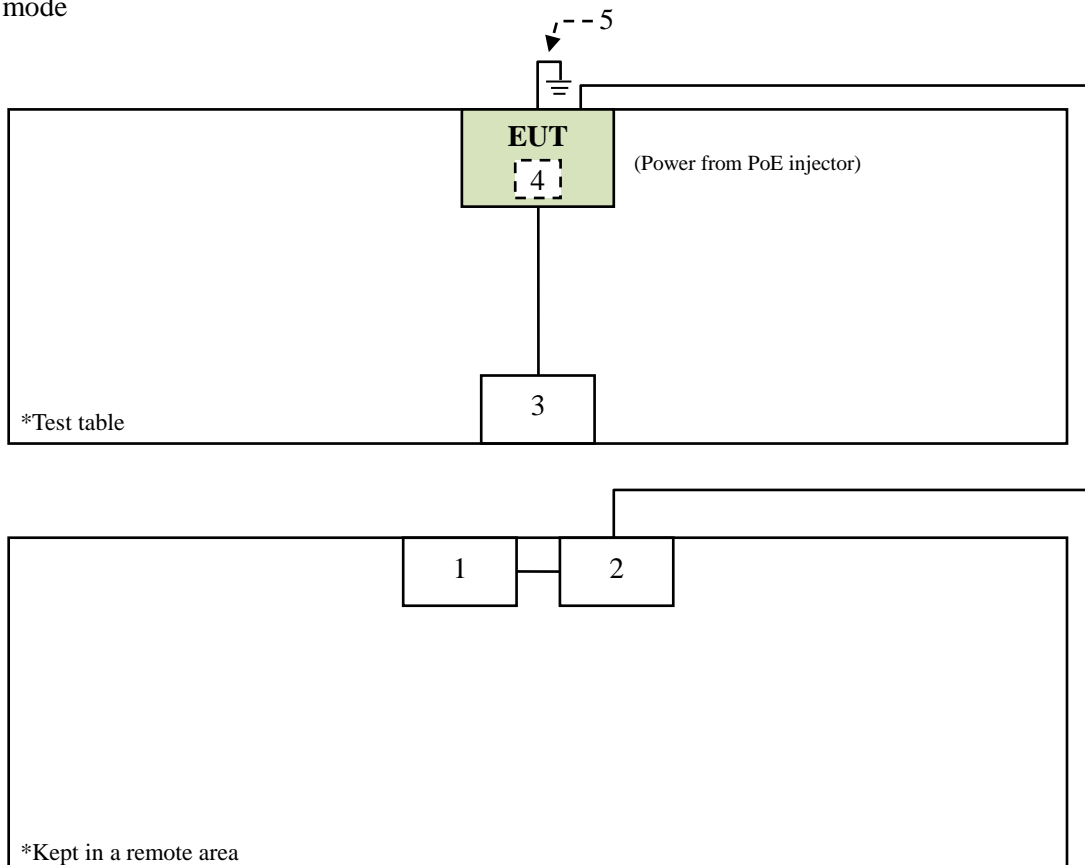
PoE injector (support unit only)	
Brand	PowerDsine
Model	PD-9601G/AC
Input Power	100-240Vac, 1.35A, 50-60Hz
Output Power	55Vdc, 1.75A
Power line	1.8m non-shielded cable

3.5 Configuration of System Under Test

Adapter mode



PoE mode





4 Emission Test

4.1 Conducted Emission Measurement

4.1.1 Limit of Conducted Emission Measurement

Frequency (MHz)	Class A (dB μ V)		Class B (dB μ V)	
	Quasi-peak (dB μ V)	Average (dB μ V)	Quasi-peak (dB μ V)	Average (dB μ V)
0.15 - 0.5	79	66	66 to 56	56 to 46
0.5 - 5	73	60	56	46
5 - 30	73	60	60	50

- Note:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
 3. Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average
 4. The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correction Factor = Insertion loss of LISN + Cable loss + Transient Limiter (If use)
Margin Level = Measurement Value – Limit Value



4.1.2 Test Instrument

Test Site: W01-CE					
Item	Equipment	Manufacturer	Model	Meter No.	Calibration Date
1	TWO-LINE V-NETWORK	R&S	ENV216	CT-1-025-1	Jun. 09, 2023
2	Pulse limiter	R&S	ESH3-Z2	CT-2-015	Jun. 01, 2023
3	EMI Test Receiver	R&S	ESCI	CT-1-024	May 30, 2023
4	Artificial Mains Network (AMN)	SCHWARZBECK	NSLK 8127	CT-1-104-1	Jun. 09, 2023
5	RF Cable	MVE	200200.400LL .500A	CT-9-101	Jun. 01, 2023
6	50ohm Termination	N/A	N/A	CT-1-065-1	Jun. 12, 2023
7	Measurement Software	EZ-EMC	Ver: EMC-CON 3A1	CT-3-012	No calibration request

Note: 1. The calibration interval of the above test instruments is 12 months.

Test Site: W08-CE					
Item	Equipment	Manufacturer	Model	Meter No.	Calibration Date
1	TWO-LINE V-NETWORK	R&S	ENV216	CT-1-025-2	Jun. 16, 2023
2	RF Cable	EMCI	EMCCFD300-BM-BM-5000	CT-1-107-2	Jun. 17, 2023
3	EMI Test Receiver	R&S	ESR3	CT-1-103	Jun. 19, 2023
4	Artificial Mains Network (AMN)	SCHWARZBECK	NSLK 8127 RC	CT-1-104-1R C	Jun. 16, 2023
5	Transient Limiter	Electro-Metrics	EM-7600	CT-1-026	Jun. 17, 2023
6	50ohm Termination	N/A	N/A	CT-1-109-1	Jun. 16, 2023
7	Measurement Software	EZ-EMC	Ver: EMC-CON 3A1	CT-3-012	No calibration request

Note: 1. The calibration interval of the above test instruments is 12 months.



4.1.3 Test Procedure

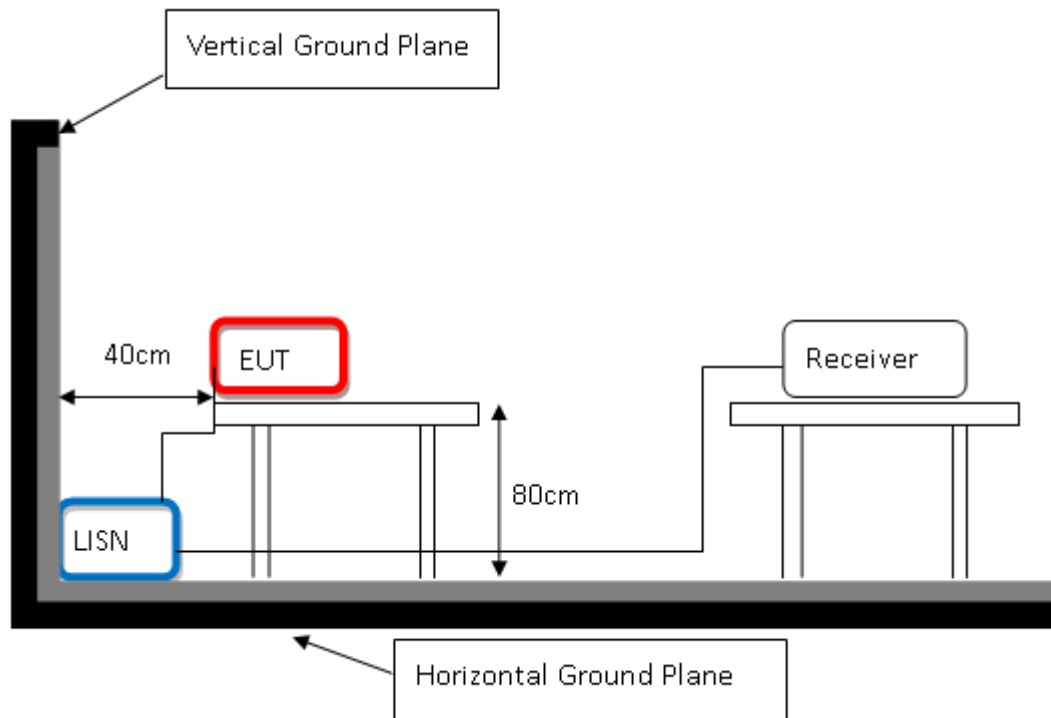
- a. The table-top EUT was placed 0.8 meter height wooden table from the horizontal ground plane with EUT being connected to power source through a line impedance stabilization network (LISN). The LISN at least be 80 cm from nearest chassis of EUT. The floor-standing EUT and all cables shall be insulated from the ground plane by up to 12 mm of insulating material if required.
- b. The line impedance stabilization network (LISN) provides 50 ohm/50uH of coupling impedance for the measuring instrument. All other support equipments powered from additional LISN(s).
- c. Interrelating cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle. All I/O cables were positioned to simulate typical usage.
- d. All I/O cables that are not connected to a peripheral shall be bundle in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- e. The EMI test receiver connected to LISN powering the EUT. The actual test configuration, please refer to EUT test photos.
- f. The receiver scanned from 150kHz to 30MHz for emissions in each of test modes. A scan was taken on both power lines, Line and Neutral, recording at least six highest emissions.
- g. The EUT and cable configuration of the above highest emission levels were recorded. The test data of the worst case was recorded.

4.1.4 Deviation from Test Standard

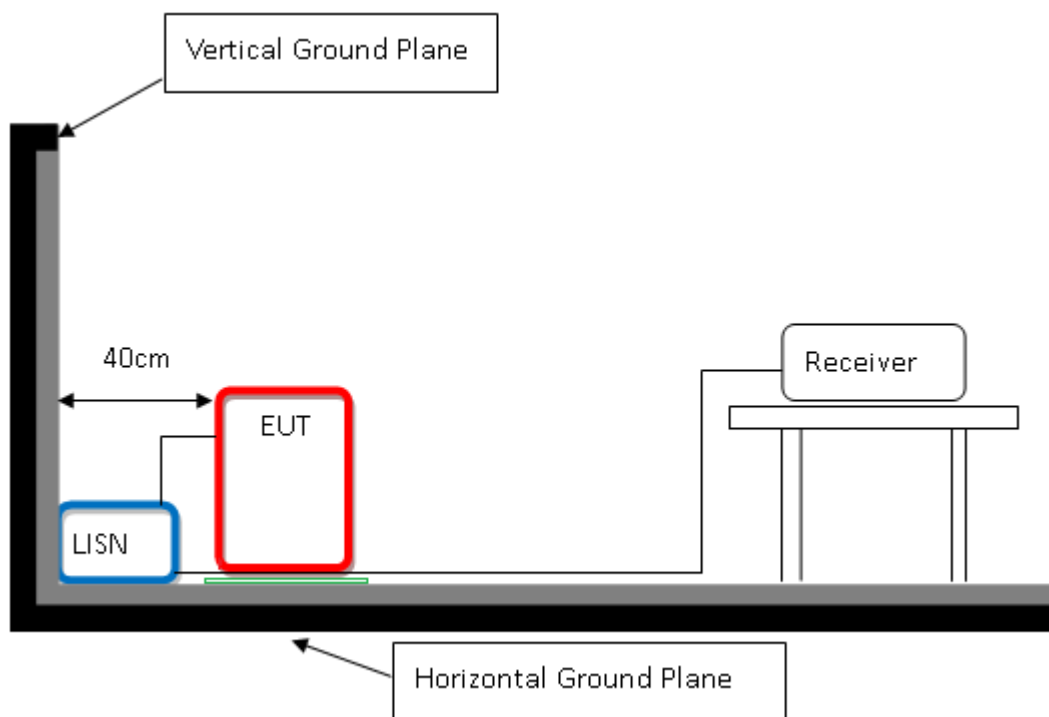
No deviation

4.1.5 Test Setup

< Table-Top equipment >



< Floor-Standing equipment >

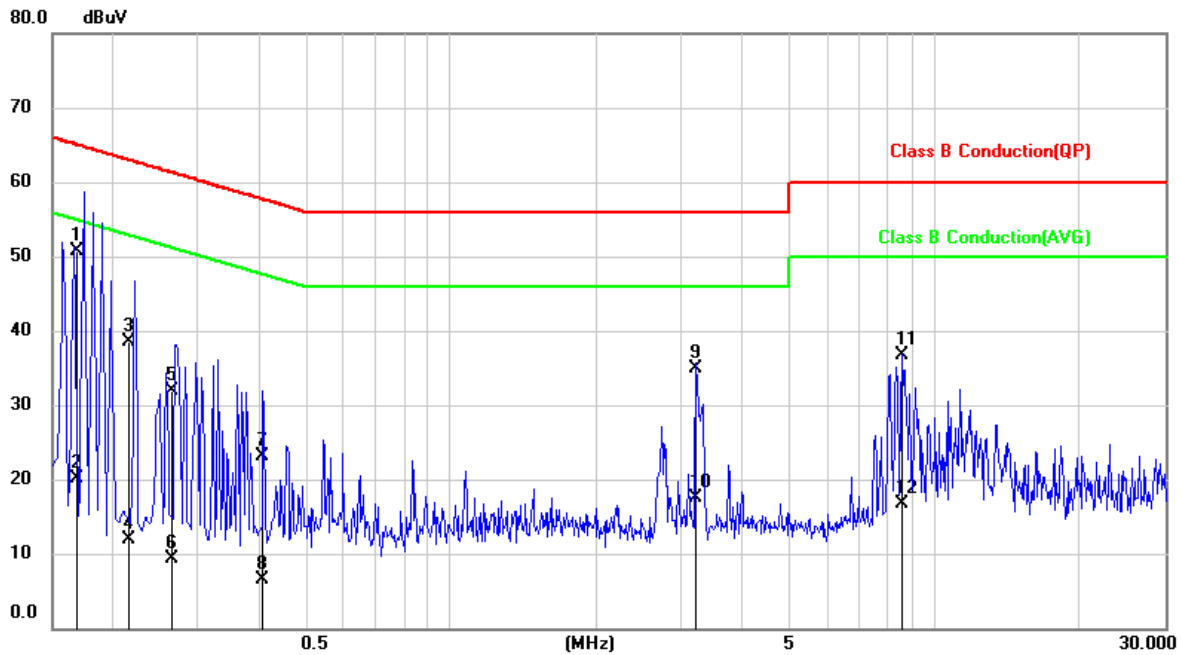


Note: Please refer to 4.1.7 for the actual test configuration.



4.1.6 Test Result

Test Voltage	120Vac, 60Hz	Frequency Range	0.15-30 MHz
Environmental Conditions	22°C, 49% RH	6dB Bandwidth	9 kHz
Test Date	2023/10/03	Phase	L
Tested by	Dennis Chen	Test Site	W01-CE
Test Mode	A		

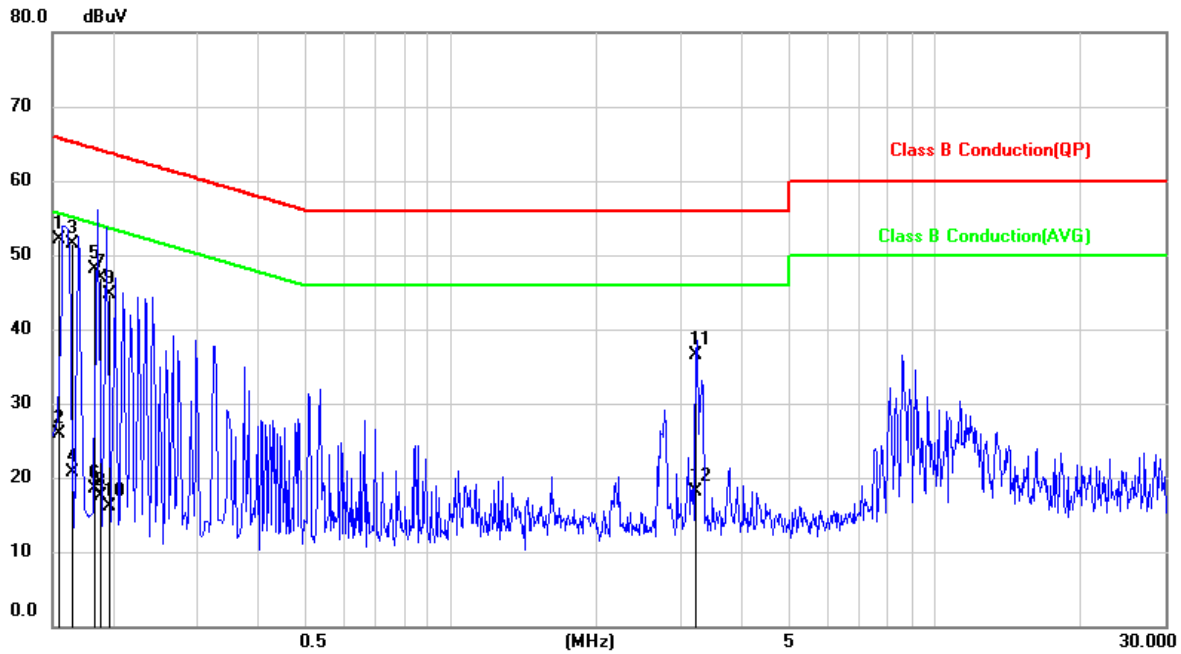


No.	Frequency (MHz)	Reading Level (dB μ V)	Correct Factor (dB)	Measurement (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.1691	40.71	9.95	50.66	65.00	-14.34	QP
2	0.1691	10.12	9.95	20.07	55.00	-34.93	AVG
3	0.2174	28.62	9.95	38.57	62.92	-24.35	QP
4	0.2174	2.05	9.95	12.00	52.92	-40.92	AVG
5	0.2654	21.95	9.95	31.90	61.26	-29.36	QP
6	0.2654	-0.69	9.95	9.26	51.26	-42.00	AVG
7	0.4089	13.09	9.95	23.04	57.67	-34.63	QP
8	0.4089	-3.43	9.95	6.52	47.67	-41.15	AVG
9	3.2179	24.81	10.04	34.85	56.00	-21.15	QP
10	3.2179	7.37	10.04	17.41	46.00	-28.59	AVG
11	8.5748	26.54	10.17	36.71	60.00	-23.29	QP
12	8.5748	6.49	10.17	16.66	50.00	-33.34	AVG

Remark: 1. QP = Quasi Peak, AVG = Average
 2. Correction Factor = Insertion loss of LISN + Cable loss + Transient Limiter (If use)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



Test Voltage	120Vac, 60Hz	Frequency Range	0.15-30 MHz
Environmental Conditions	22°C, 49% RH	6dB Bandwidth	9 kHz
Test Date	2023/10/03	Phase	N
Tested by	Dennis Chen	Test Site	W01-CE
Test Mode	A		

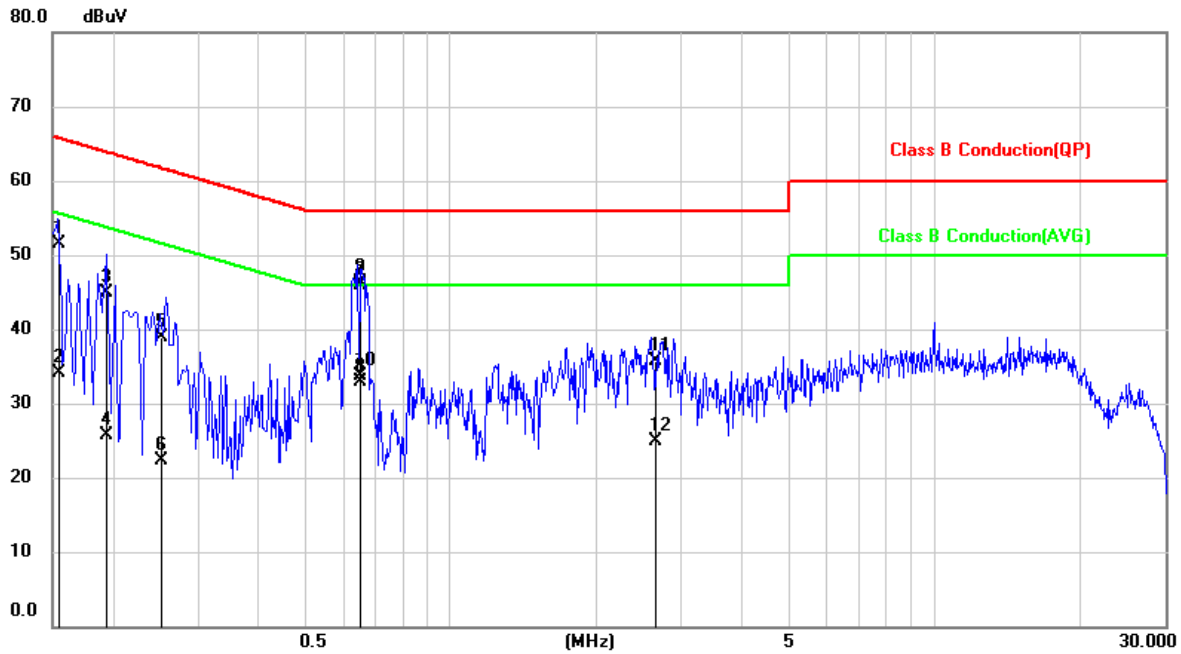


No.	Frequency (MHz)	Reading Level (dB μ V)	Correct Factor (dB)	Measurement (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.1542	42.04	9.97	52.01	65.77	-13.76	QP
2	0.1542	15.96	9.97	25.93	55.77	-29.84	AVG
3	0.1652	41.47	9.97	51.44	65.20	-13.76	QP
4	0.1652	10.80	9.97	20.77	55.20	-34.43	AVG
5	0.1832	38.18	9.96	48.14	64.34	-16.20	QP
6	0.1832	8.54	9.96	18.50	54.34	-35.84	AVG
7	0.1894	36.85	9.96	46.81	64.06	-17.25	QP
8	0.1894	7.55	9.96	17.51	54.06	-36.55	AVG
9	0.1974	34.70	9.96	44.66	63.72	-19.06	QP
10	0.1974	6.06	9.96	16.02	53.72	-37.70	AVG
11	3.2163	26.50	10.07	36.57	56.00	-19.43	QP
12	3.2163	8.00	10.07	18.07	46.00	-27.93	AVG

Remark: 1. QP = Quasi Peak, AVG = Average
 2. Correction Factor = Insertion loss of LISN + Cable loss + Transient Limiter (If use)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



Test Voltage	120Vac, 60Hz	Frequency Range	0.15-30 MHz
Environmental Conditions	22°C, 49% RH	6dB Bandwidth	9 kHz
Test Date	2023/10/03	Phase	L
Tested by	Dennis Chen	Test Site	W01-CE
Test Mode	B		

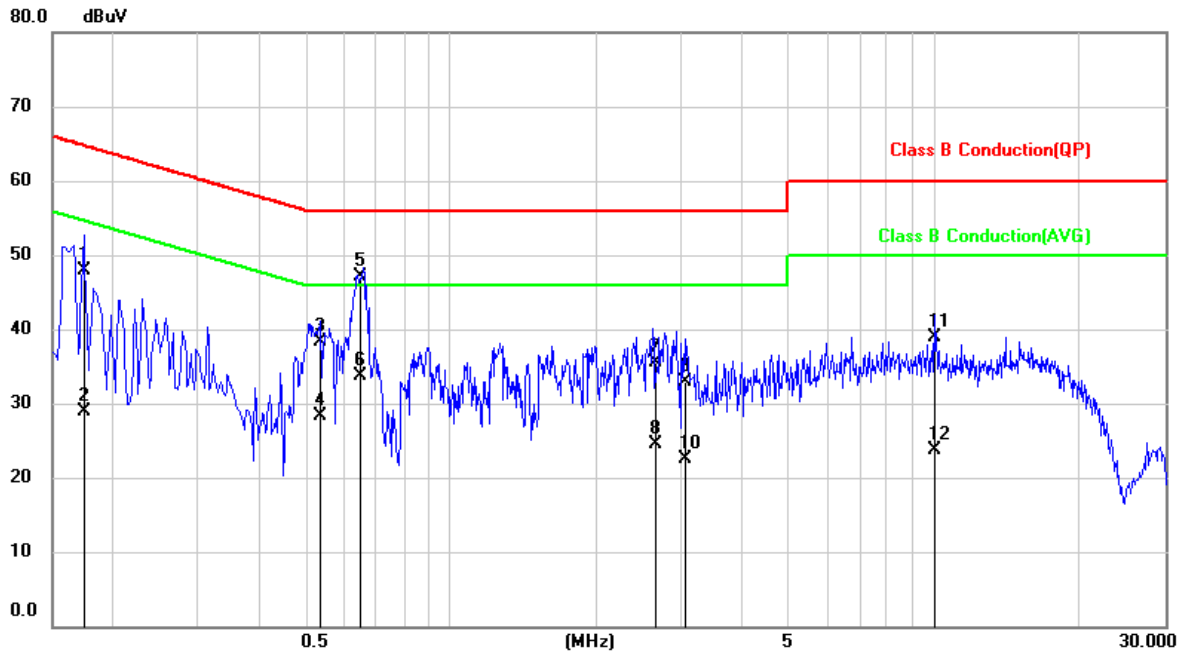


No.	Frequency (MHz)	Reading Level (dB μ V)	Correct Factor (dB)	Measurement (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.1552	41.48	9.95	51.43	65.72	-14.29	QP
2	0.1552	24.17	9.95	34.12	55.72	-21.60	AVG
3	0.1945	34.98	9.95	44.93	63.84	-18.91	QP
4	0.1945	15.71	9.95	25.66	53.84	-28.18	AVG
5	0.2538	28.86	9.95	38.81	61.63	-22.82	QP
6	0.2538	12.33	9.95	22.28	51.63	-29.35	AVG
7	0.6511	35.98	9.95	45.93	56.00	-10.07	QP
8	0.6511	22.91	9.95	32.86	46.00	-13.14	AVG
9	0.6520	36.42	9.95	46.37	56.00	-9.63	QP
10	0.6520	23.73	9.95	33.68	46.00	-12.32	AVG
11	2.6461	25.71	10.04	35.75	56.00	-20.25	QP
12	2.6461	14.88	10.04	24.92	46.00	-21.08	AVG

Remark: 1. QP = Quasi Peak, AVG = Average
 2. Correction Factor = Insertion loss of LISN + Cable loss + Transient Limiter (If use)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



Test Voltage	120Vac, 60Hz	Frequency Range	0.15-30 MHz
Environmental Conditions	22°C, 49% RH	6dB Bandwidth	9 kHz
Test Date	2023/10/03	Phase	N
Tested by	Dennis Chen	Test Site	W01-CE
Test Mode	B		

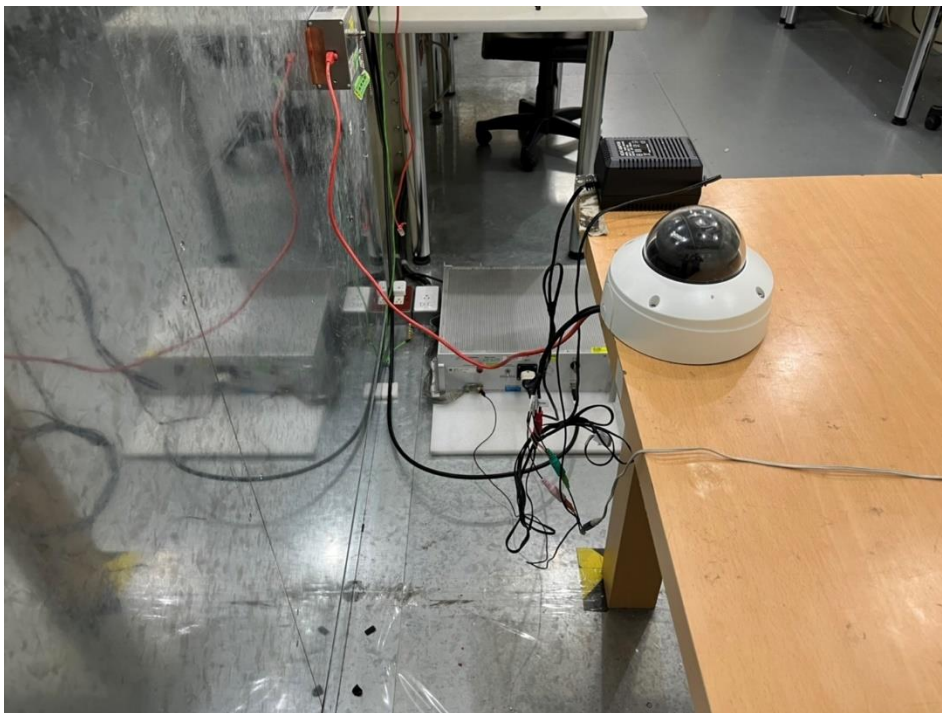


No.	Frequency (MHz)	Reading Level (dB μ V)	Correct Factor (dB)	Measurement (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector
1	0.1732	37.98	9.97	47.95	64.81	-16.86	QP
2	0.1732	18.88	9.97	28.85	54.81	-25.96	AVG
3	0.5386	28.28	9.97	38.25	56.00	-17.75	QP
4	0.5386	18.37	9.97	28.34	46.00	-17.66	AVG
5	0.6507	37.16	9.97	47.13	56.00	-8.87	QP
6	0.6507	23.73	9.97	33.70	46.00	-12.30	AVG
7	2.6456	25.51	10.06	35.57	56.00	-20.43	QP
8	2.6456	14.48	10.06	24.54	46.00	-21.46	AVG
9	3.0523	22.92	10.07	32.99	56.00	-23.01	QP
10	3.0523	12.45	10.07	22.52	46.00	-23.48	AVG
11	10.0019	28.64	10.26	38.90	60.00	-21.10	QP
12	10.0019	13.36	10.26	23.62	50.00	-26.38	AVG

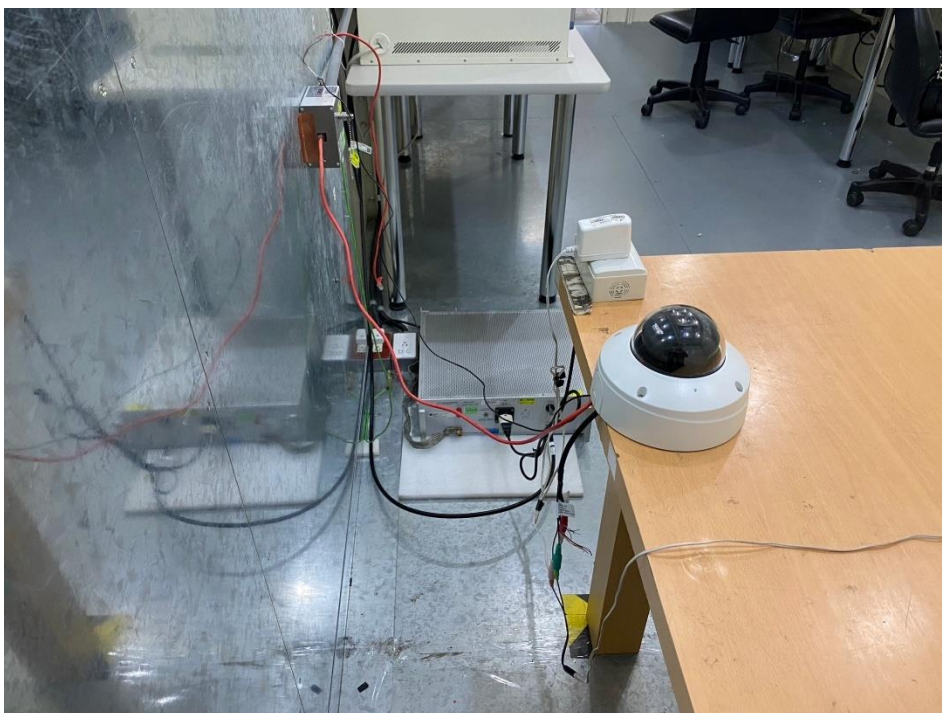
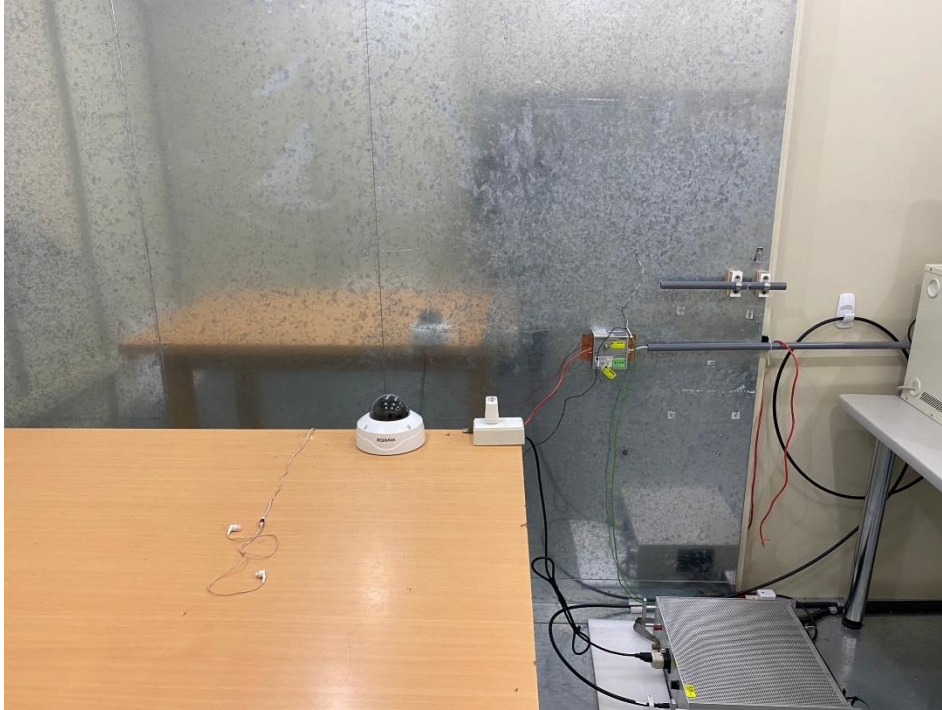
Remark: 1. QP = Quasi Peak, AVG = Average
 2. Correction Factor = Insertion loss of LISN + Cable loss + Transient Limiter (If use)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value

4.1.7 Photographs of Test Configuration

Test mode A



Test mode B





4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

Radiated Frequency range 30 MHz to 1000 MHz

ICES-003 Radiated Emissions Limits				
Frequency range (MHz)	Class A (3m) Quasi-peak (dBμV/m)	Class A (10m) Quasi-peak (dBμV/m)	Class B (3m) Quasi-peak (dBμV/m)	Class B (10m) Quasi-peak (dBμV/m)
30 - 88	50	40	40	30
88 - 216	54	43.5	43.5	33.1
216 - 230	56.9	46.4	46	35.6
230 - 960	57	47	47	37
960 - 1000	60	49.5	54	43.5

Radiated Frequency range above 1 GHz

ICES-003 Radiated Emissions Limits				
Frequency range (GHz)	Class A (3m) (dBμV/m)		Class B (3m) (dBμV/m)	
	Peak	Average	Peak	Average
1 - 40	80	60	74	54

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

2. Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average

3. The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)

Margin Level = Measurement Value - Limit Value

Frequency Range (For unintentional radiators)

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40GHz, whichever is lower



4.2.2 Test Instrument

Test Site: W08-966-1					
Item	Equipment	Manufacturer	Model	Meter No.	Calibration Date
1	Horn Antenna	Schwarzbeck	BBHA 9120D	CT-9-031	Jul. 31, 2023
2	Horn Antenna	Schwarzbeck	BBHA 9170	CT-9-032	Aug. 21, 2023
3	TRILOG Broadband Antenna with 6 dB Attenuator	Schwarzbeck & MVE	VULB 9168 & MVE2251-06	CT-1-096-1	May 17, 2023
4	Spectrum Analyzer	Agilent	E4407B	CT-1-003(1)	Aug. 02, 2023
5	EXA Signal Analyzer	Keysight	N9010A	CT-1-093	Aug. 18, 2023
6	EMI Test Receiver	Keysight	N9038A	CT-9-007	Aug. 02, 2023
7	Preamplifier	EM	EM 330	CT-9-024	Aug. 03, 2023
8	Preamplifier	SGH & MCL	SGH118 & BW-S15W2+	CT-9-071	Aug. 03, 2023
9	Preamplifier	EMCI	EMC184045SE	CT-9-013	Aug. 22, 2023
10	Test Cable	EMCI	EMCCFD400-NM-NM-1000	CT-1-132	Aug. 03, 2023
11	Test Cable	PEWC	CFD400NL-LW-NM-NM-3000	CT-1-141	Aug. 03, 2023
12	Test Cable	EMCI	EMCCFD400-NM-NM-15000	CT-1-133	Aug. 03, 2023
13	Test Cable	EMCI	EMC104-SM-35M-600	CT-1-134	Aug. 03, 2023
14	Test Cable	MVE	280280.LL266.1400	CT-9-072	Aug. 03, 2023
15	Test Cable	EMCI	EMC102-KM-KM-600	CT-1-136	Aug. 22, 2023
16	Measurement Software	EZ-EMC	Ver :WD-03A1-1	CT-3-012	No calibration request

Note: 1. The calibration interval of the above test instruments is 12 months.



4.2.3 Test Procedure

- a. The table-top EUT was placed on the top of a turntable 0.8 meters above the ground at 3 m 966 chamber. The floor-standing EUT and all cables shall be insulated from the ground plane by up to 12 mm of insulating material if required. The table was rotated 360 degrees to determine the position of the high radiation emissions.
- b. The height of the test antenna shall vary between 1 m to 4 m. Both vertical and horizontal polarizations of the antenna were set to make the measurement.
- c. The EUT was set up as per the test configuration to simulate typical usage per the user's manual. All I/O cables were positioned to simulate typical usage. The actual test configuration, please refer to EUT test photos.
- d. The initial step in collecting radiated emission data is a Spectrum Mode scanning the measurement frequency range.

Below 1GHz:

Reading in which marked as QP or Peak means measurements by using Spectrum Mode with detector RBW=120kHz.

If the Spectrum Mode measured peak value compliance with and lower than Quasi Peak Limit, the EUT shall be deemed to meet QP Limits.

Above 1GHz:

Reading in which marked as Peak & AVG means measurements by using Spectrum Mode with setting in RBW=1MHz.

If the Spectrum Mode measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak and AVG Limits.

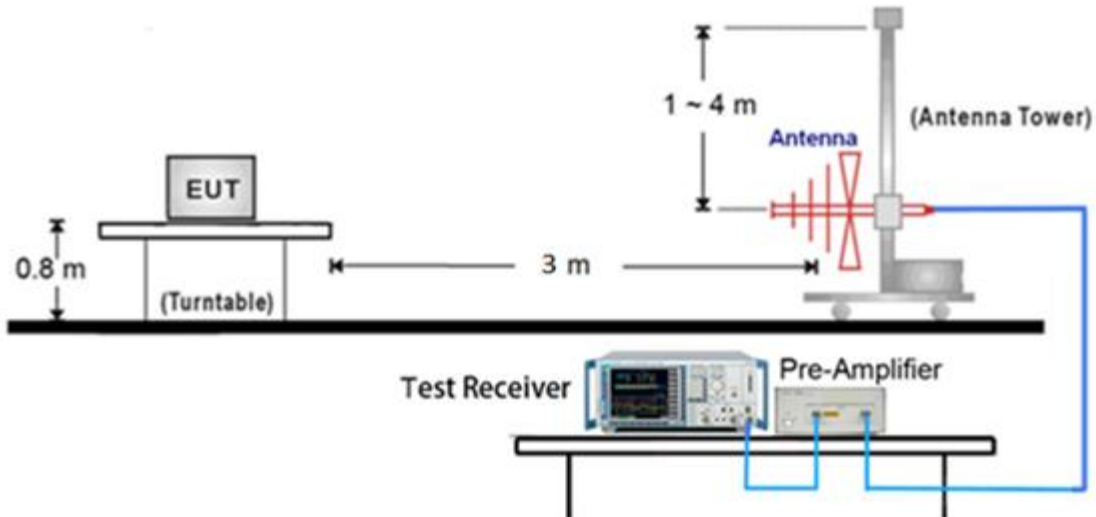
- e. Emission frequency and amplitude were recorded, recording at least six highest emissions. The EUT and cable configuration of the above highest emission levels were recorded. The test data of the worst case was recorded.

4.2.4 Deviation from Test Standard

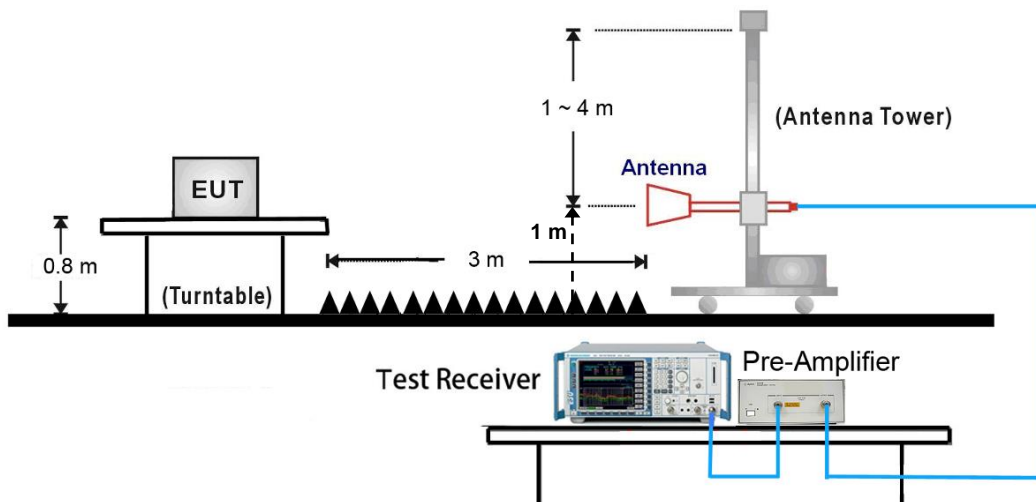
No deviation

4.2.5 Test Setup

< Radiated Emissions Frequency: 30 MHz to 1000 MHz >



< Radiated Emissions Frequency: above 1GHz >



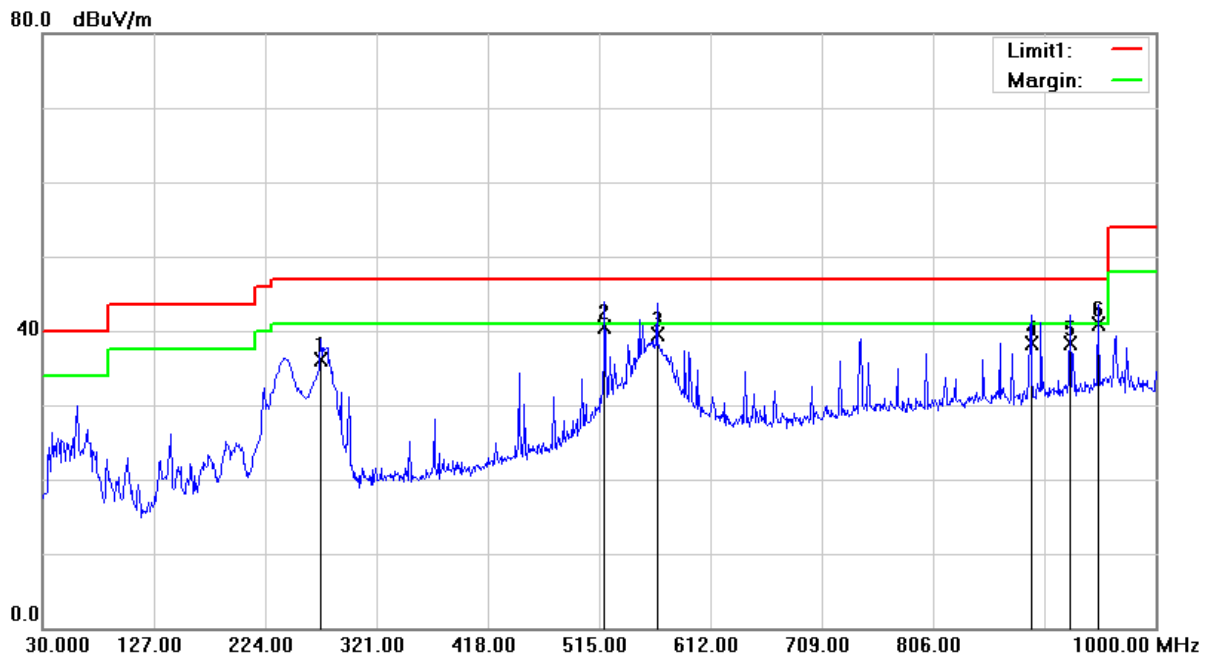
Note:

- (1) Please refer to the 4.2.7 for the actual test configuration.
- (2) The formula of measured value as: $\text{Test Result} = \text{Reading} + \text{Correction Factor}$
- (3) Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average
- (4) The test result calculated as following:
 $\text{Measurement Value} = \text{Reading Level} + \text{Correct Factor}$
 $\text{Correct Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain (if use)}$
 $\text{Margin Level} = \text{Measurement Value} - \text{Limit Value}$



4.2.6 Test Result

Test Voltage	120Vac, 60Hz	Frequency Range	30 – 1000 MHz
Environmental Conditions	25°C, 46% RH	6dB Bandwidth	120 kHz
Test Date	2023/10/13	Test Distance	3m
Tested by	Karwin Kao	Polarization	Vertical
Test Site	W08-966-1	Test Mode	A

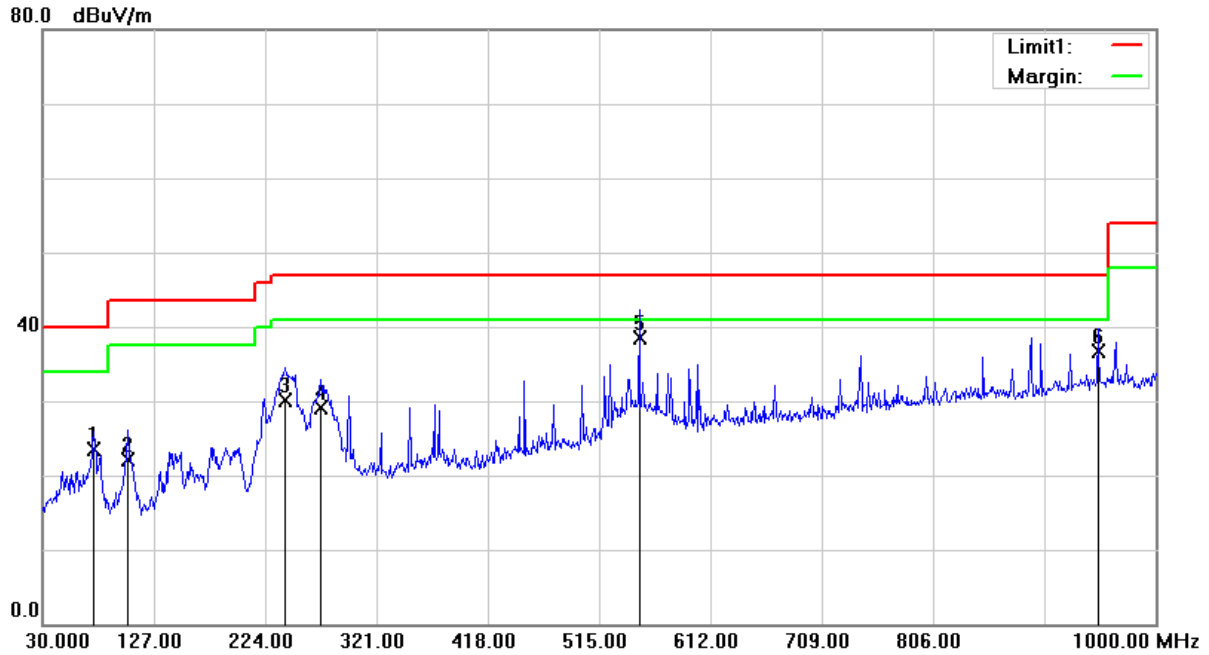


No.	Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB/m)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	272.5000	45.56	-9.39	36.17	47.00	-10.83	344	100	QP
2	519.8500	43.17	-2.69	40.48	47.00	-6.52	151	100	QP
3	565.4400	41.29	-1.70	39.59	47.00	-7.41	90	100	QP
4	891.3600	33.89	4.37	38.26	47.00	-8.74	360	153	QP
5	925.3100	33.11	5.27	38.38	47.00	-8.62	360	141	QP
6	949.5600	34.83	6.07	40.90	47.00	-6.10	360	147	QP

Remark: 1. QP = Quasi Peak
 2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



Test Voltage	120Vac, 60Hz	Frequency Range	30 – 1000 MHz
Environmental Conditions	25°C, 46% RH	6dB Bandwidth	120 kHz
Test Date	2023/10/13	Test Distance	3m
Tested by	Karwin Kao	Polarization	Horizontal
Test Site	W08-966-1	Test Mode	A

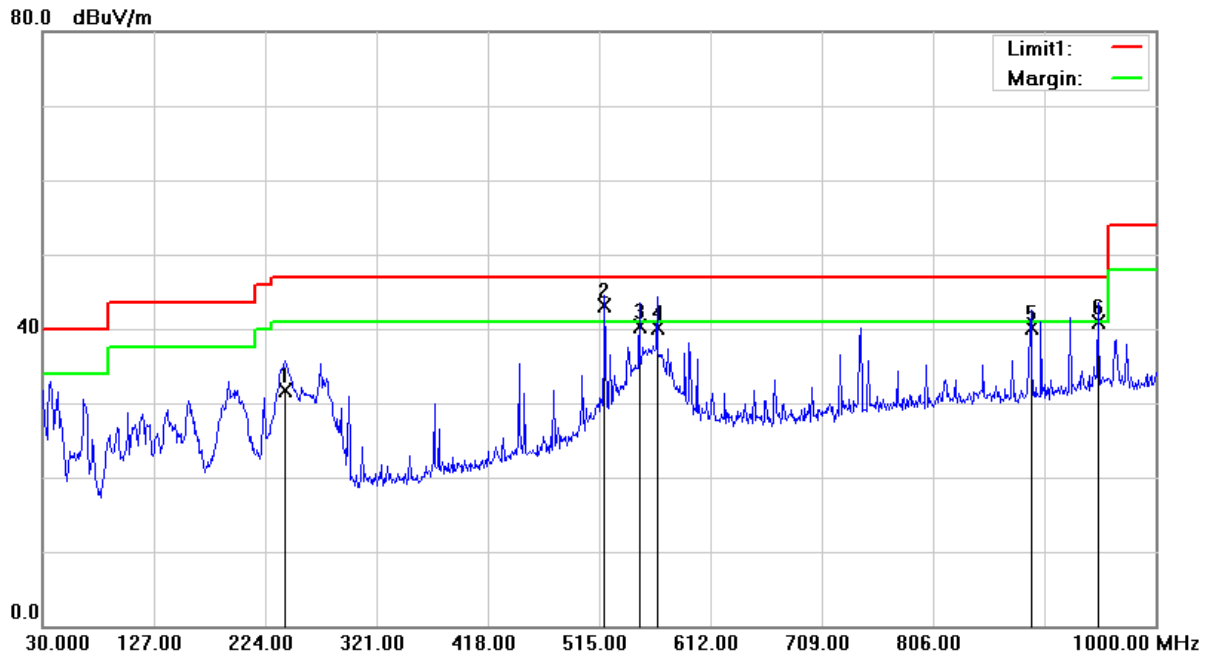


No.	Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB/m)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	74.6200	36.59	-13.18	23.41	40.00	-16.59	100	200	QP
2	104.6900	35.80	-13.64	22.16	43.50	-21.34	127	200	QP
3	241.4600	40.96	-10.76	30.20	47.00	-16.80	63	100	QP
4	272.5000	38.50	-9.39	29.11	47.00	-17.89	107	100	QP
5	549.9200	40.54	-2.10	38.44	47.00	-8.56	154	100	QP
6	949.5600	30.71	6.07	36.78	47.00	-10.22	320	100	QP

- Remark:**
1. QP = Quasi Peak
 2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



Test Voltage	120Vac, 60Hz	Frequency Range	30 – 1000 MHz
Environmental Conditions	25°C, 46% RH	6dB Bandwidth	120 kHz
Test Date	2023/10/12	Test Distance	3m
Tested by	Karwin Kao	Polarization	Vertical
Test Site	W08-966-1	Test Mode	B



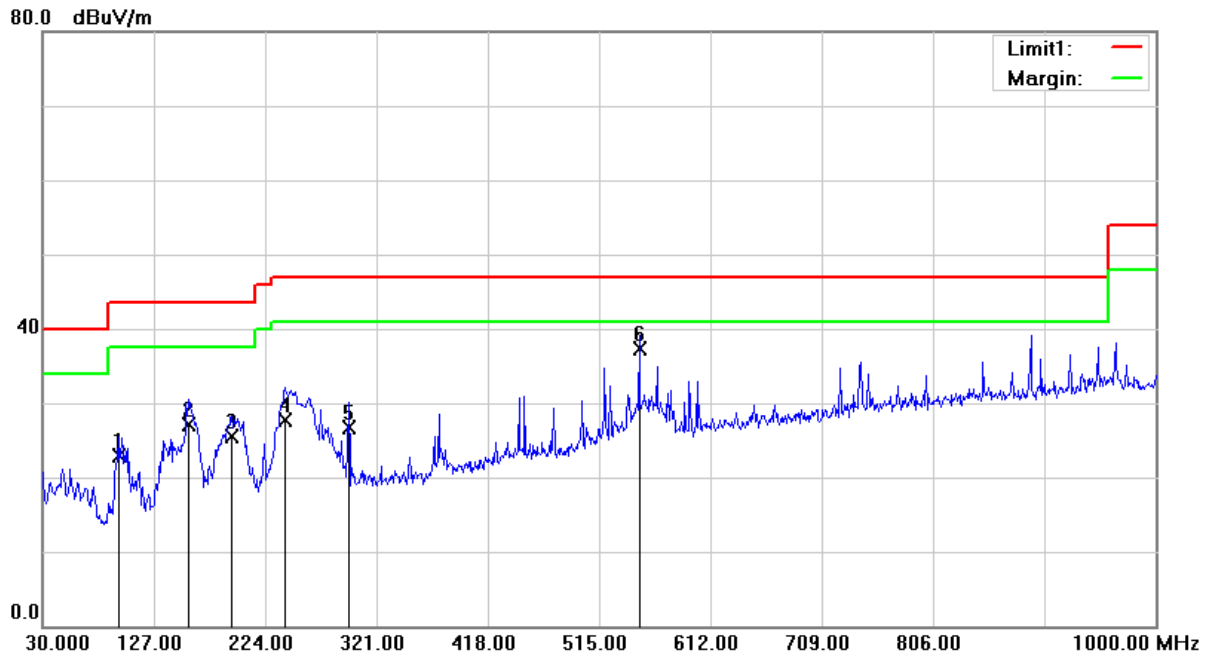
No.	Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB/m)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	241.4600	42.48	-10.76	31.72	47.00	-15.28	5	200	QP
2	519.8500	45.86	-2.69	43.17	47.00	-3.83	164	100	QP
3	549.9200	42.48	-2.10	40.38	47.00	-6.62	19	100	QP
4	565.4400	41.90	-1.70	40.20	47.00	-6.80	174	100	QP
5	891.3600	35.78	4.37	40.15	47.00	-6.85	360	153	QP
6	949.5600	34.89	6.07	40.96	47.00	-6.04	195	100	QP

Remark:

1. QP = Quasi Peak
2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value



Test Voltage	120Vac, 60Hz	Frequency Range	30 – 1000 MHz
Environmental Conditions	25°C, 46% RH	6dB Bandwidth	120 kHz
Test Date	2023/10/12	Test Distance	3m
Tested by	Karwin Kao	Polarization	Horizontal
Test Site	W08-966-1	Test Mode	B

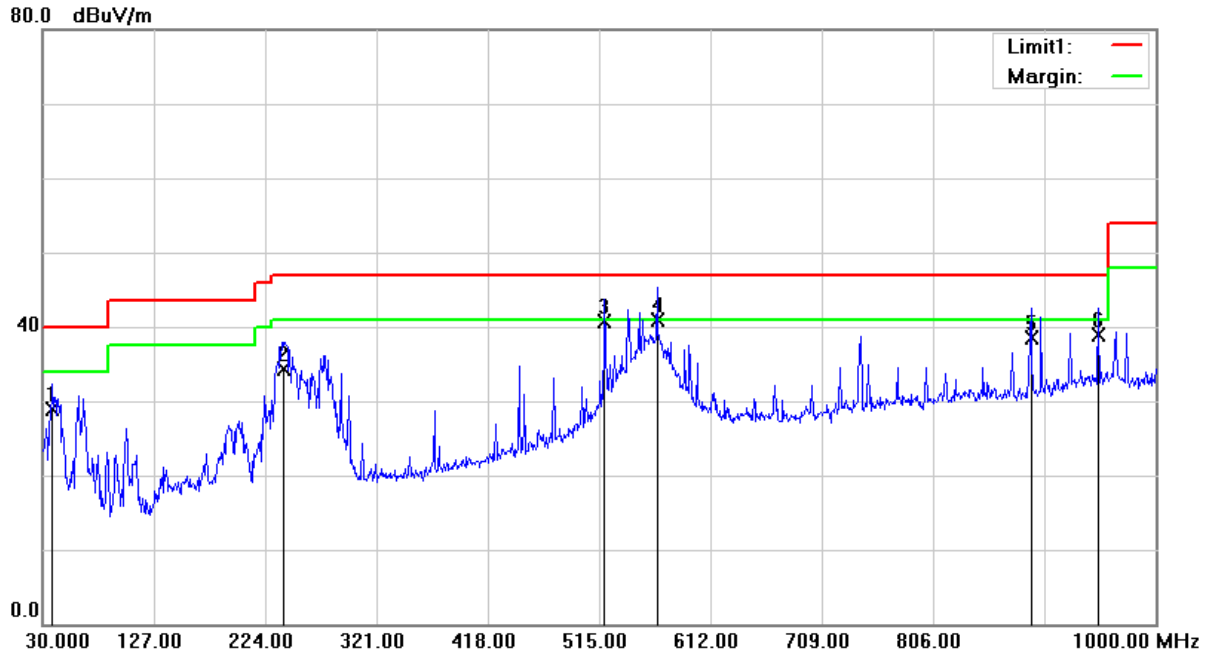


No.	Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB/m)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	95.9600	37.89	-14.95	22.94	43.50	-20.56	303	200	QP
2	157.0700	36.48	-9.41	27.07	43.50	-16.43	270	200	QP
3	194.9000	37.89	-12.43	25.46	43.50	-18.04	141	200	QP
4	241.4600	38.47	-10.76	27.71	47.00	-19.29	256	200	QP
5	296.7500	35.48	-8.68	26.80	47.00	-20.20	107	100	QP
6	549.9200	39.46	-2.10	37.36	47.00	-9.64	114	100	QP

- Remark:**
1. QP = Quasi Peak
 2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



Test Voltage	55Vdc (from PoE)	Frequency Range	30 – 1000 MHz
Environmental Conditions	25°C, 46% RH	6dB Bandwidth	120 kHz
Test Date	2023/10/12	Test Distance	3m
Tested by	Karwin Kao	Polarization	Vertical
Test Site	W08-966-1	Test Mode	C

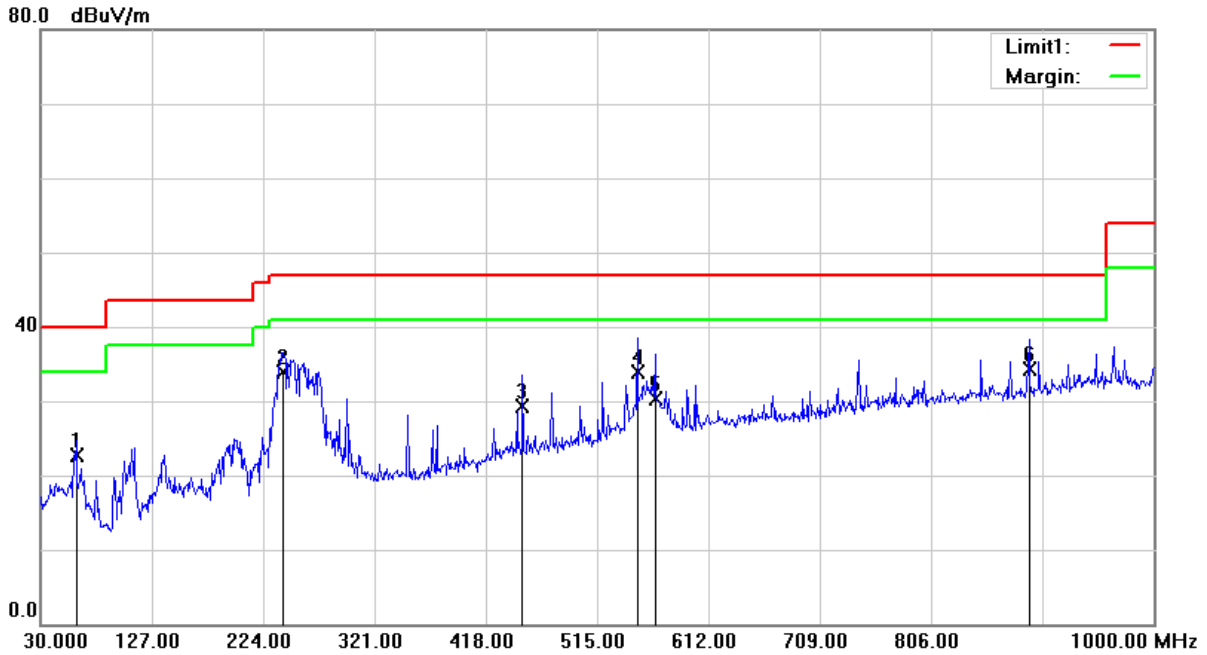


No.	Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB/m)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	38.7300	39.50	-10.69	28.81	40.00	-11.19	141	100	QP
2	240.4900	45.17	-10.83	34.34	47.00	-12.66	25	200	QP
3	519.8500	43.44	-2.69	40.75	47.00	-6.25	185	100	QP
4	565.4400	42.70	-1.70	41.00	47.00	-6.00	63	100	QP
5	891.3600	34.05	4.37	38.42	47.00	-8.58	360	157	QP
6	949.5600	32.87	6.07	38.94	47.00	-8.06	360	140	QP

- Remark:**
1. QP = Quasi Peak
 2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



Test Voltage	55Vdc (from PoE)	Frequency Range	30 – 1000 MHz
Environmental Conditions	25°C, 46% RH	6dB Bandwidth	120 kHz
Test Date	2023/10/12	Test Distance	3m
Tested by	Karwin Kao	Polarization	Horizontal
Test Site	W08-966-1	Test Mode	C

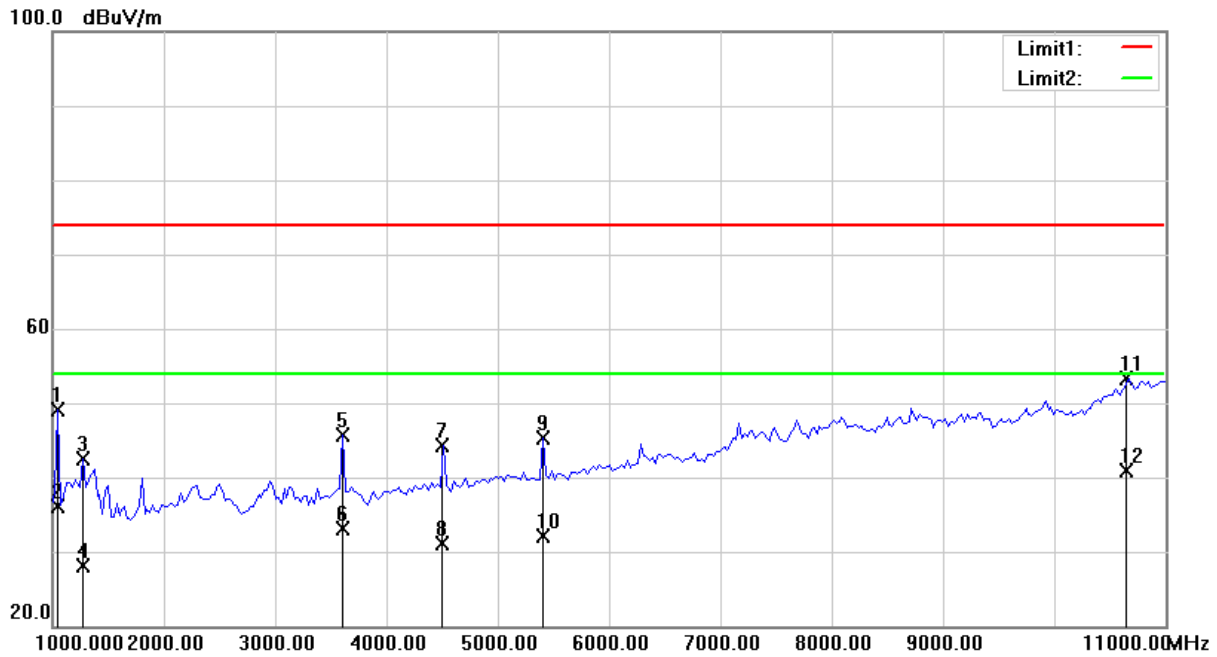


No.	Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB/m)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	61.0400	33.28	-10.59	22.69	40.00	-17.31	306	200	QP
2	241.4600	44.68	-10.76	33.92	47.00	-13.08	252	200	QP
3	450.0100	33.36	-4.07	29.29	47.00	-17.71	290	100	QP
4	549.9200	36.05	-2.10	33.95	47.00	-13.05	164	100	QP
5	565.4400	32.01	-1.70	30.31	47.00	-16.69	310	100	QP
6	891.3600	29.89	4.37	34.26	47.00	-12.74	15	100	QP

- Remark:**
1. QP = Quasi Peak
 2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



Test Voltage	120Vac, 60Hz	Frequency Range	1 – 11GHz
Environmental Conditions	25°C, 46% RH	6dB Bandwidth	1MHz
Test Date	2023/10/11	Test Distance	3m
Tested by	Karwin Kao	Polarization	Vertical
Test Site	W08-966-1	Test Mode	A



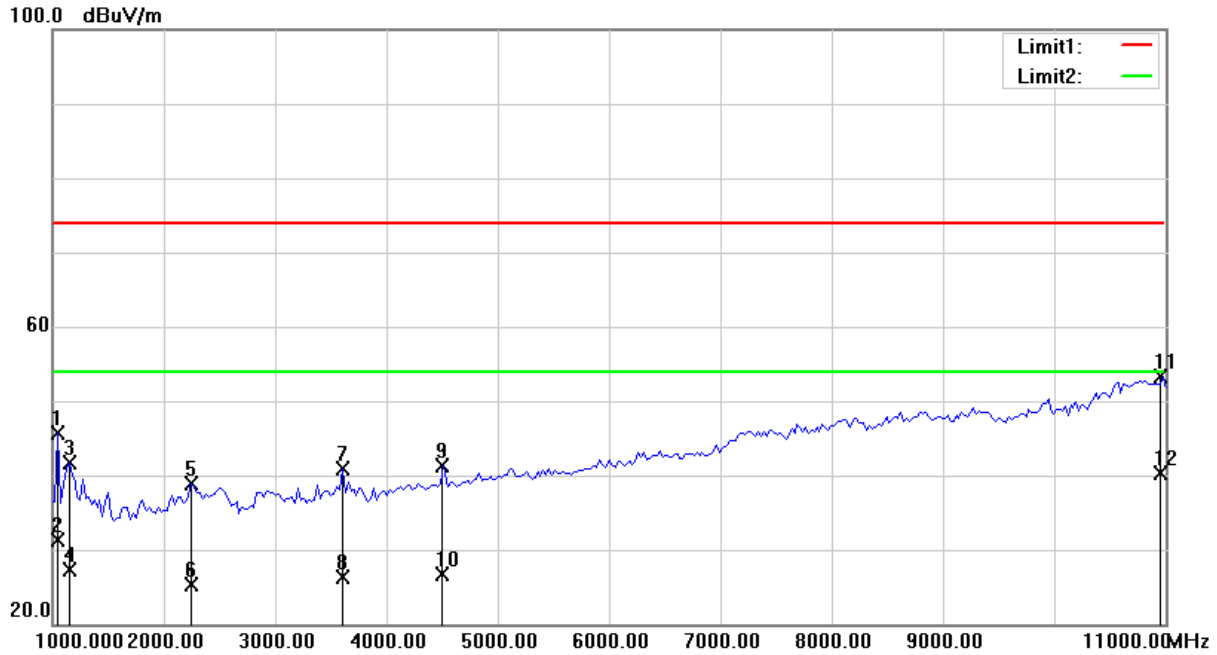
No.	Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB/m)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	1050.000	68.07	-19.03	49.04	74.00	-24.96	281	100	peak
2	1050.000	55.08	-19.03	36.05	54.00	-17.95	281	100	AVG
3	1275.000	59.53	-17.08	42.45	74.00	-31.55	336	200	peak
4	1275.000	45.13	-17.08	28.05	54.00	-25.95	336	200	AVG
5	3600.000	56.36	-10.68	45.68	74.00	-28.32	360	106	peak
6	3600.000	43.75	-10.68	33.07	54.00	-20.93	360	106	AVG
7	4500.000	52.88	-8.63	44.25	74.00	-29.75	120	200	peak
8	4500.000	39.64	-8.63	31.01	54.00	-22.99	120	200	AVG
9	5400.000	51.94	-6.73	45.21	74.00	-28.79	105	100	peak
10	5400.000	38.77	-6.73	32.04	54.00	-21.96	105	100	AVG
11	10650.000	47.91	5.33	53.24	74.00	-20.76	69	200	peak
12	10650.000	35.62	5.33	40.95	54.00	-13.05	69	200	AVG

Remark:

1. peak = Peak, AVG = Average
2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value



Test Voltage	120Vac, 60Hz	Frequency Range	1 – 11GHz
Environmental Conditions	25°C, 46% RH	6dB Bandwidth	1MHz
Test Date	2023/10/11	Test Distance	3m
Tested by	Karwin Kao	Polarization	Horizontal
Test Site	W08-966-1	Test Mode	A

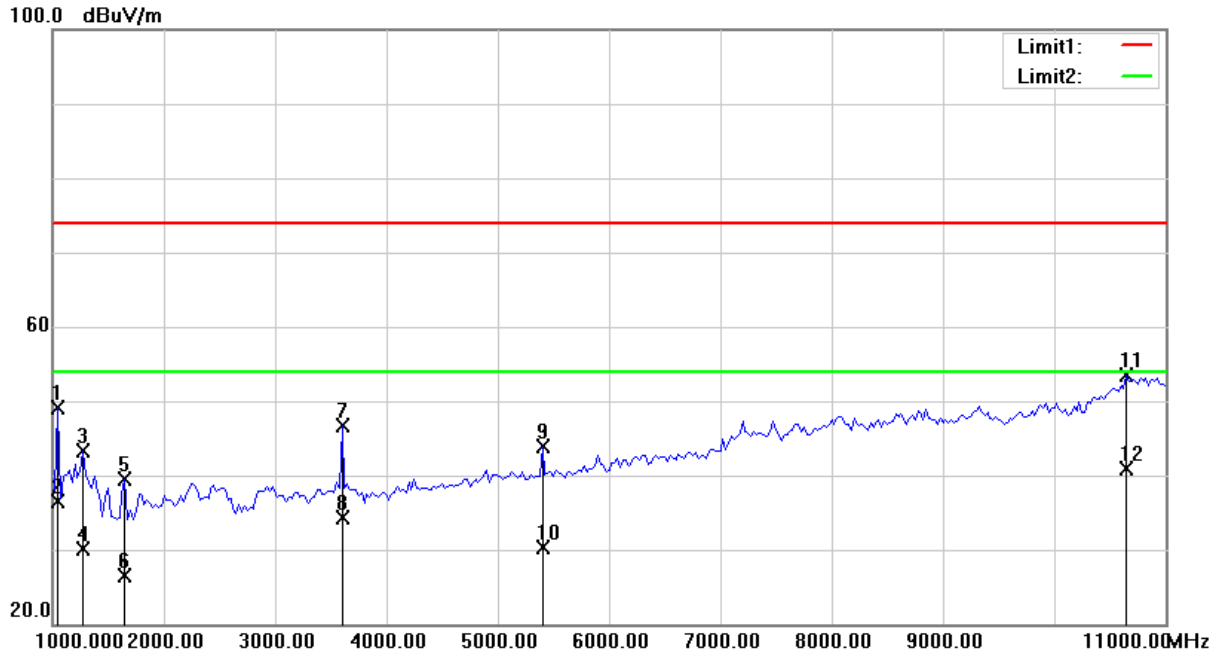


No.	Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB/m)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	1050.000	64.79	-19.03	45.76	74.00	-28.24	208	200	peak
2	1050.000	50.26	-19.03	31.23	54.00	-22.77	208	200	AVG
3	1150.000	59.47	-17.85	41.62	74.00	-32.38	167	200	peak
4	1150.000	45.17	-17.85	27.32	54.00	-26.68	167	200	AVG
5	2250.000	51.06	-12.19	38.87	74.00	-35.13	360	127	peak
6	2250.000	37.49	-12.19	25.30	54.00	-28.70	360	127	AVG
7	3600.000	51.53	-10.68	40.85	74.00	-33.15	78	100	peak
8	3600.000	37.05	-10.68	26.37	54.00	-27.63	78	100	AVG
9	4500.000	49.85	-8.63	41.22	74.00	-32.78	255	200	peak
10	4500.000	35.28	-8.63	26.65	54.00	-27.35	255	200	AVG
11	10950.000	47.19	6.16	53.35	74.00	-20.65	117	200	peak
12	10950.000	34.08	6.16	40.24	54.00	-13.76	117	200	AVG

Remark: 1. peak = Peak, AVG = Average
 2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



Test Voltage	120Vac, 60Hz	Frequency Range	1 – 11GHz
Environmental Conditions	25°C, 46% RH	6dB Bandwidth	1MHz
Test Date	2023/10/12	Test Distance	3m
Tested by	Karwin Kao	Polarization	Vertical
Test Site	W08-966-1	Test Mode	B

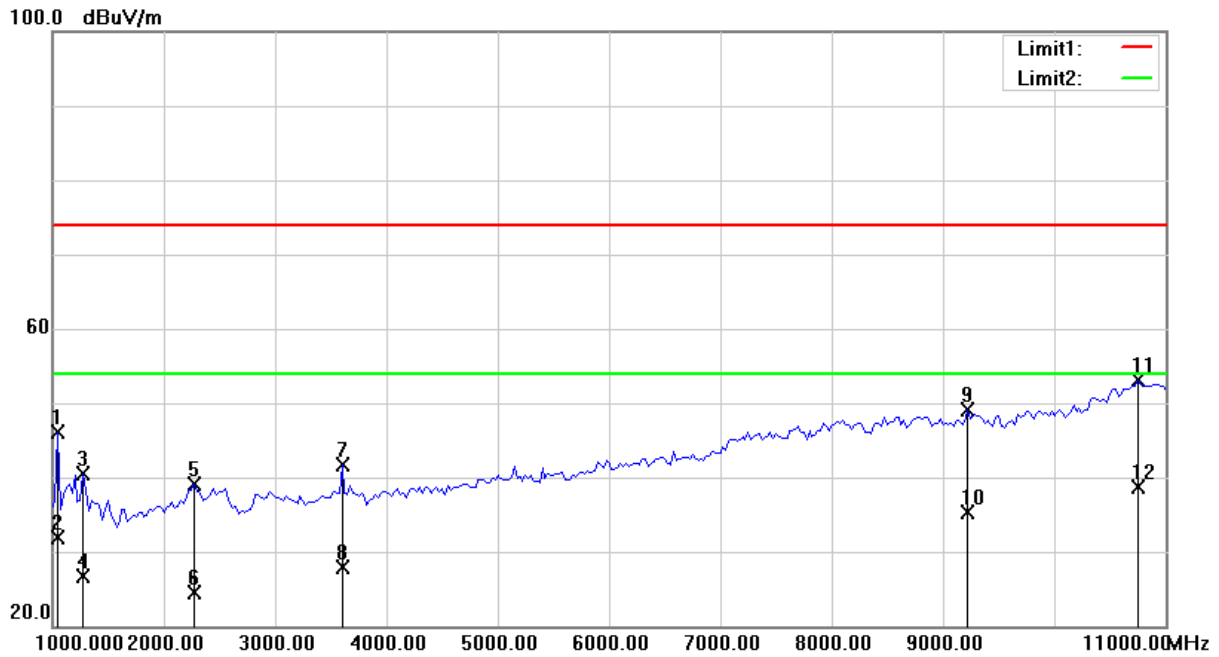


No.	Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB/m)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	1050.000	68.10	-19.03	49.07	74.00	-24.93	360	158	peak
2	1050.000	55.44	-19.03	36.41	54.00	-17.59	360	158	AVG
3	1275.000	60.35	-17.08	43.27	74.00	-30.73	360	100	peak
4	1275.000	47.28	-17.08	30.20	54.00	-23.80	360	100	AVG
5	1650.000	56.66	-17.16	39.50	74.00	-34.50	17	100	peak
6	1650.000	43.68	-17.16	26.52	54.00	-27.48	17	100	AVG
7	3600.000	57.30	-10.68	46.62	74.00	-27.38	360	119	peak
8	3600.000	44.88	-10.68	34.20	54.00	-19.80	360	119	AVG
9	5400.000	50.64	-6.73	43.91	74.00	-30.09	108	100	peak
10	5400.000	37.05	-6.73	30.32	54.00	-23.68	108	100	AVG
11	10650.000	48.22	5.33	53.55	74.00	-20.45	107	200	peak
12	10650.000	35.49	5.33	40.82	54.00	-13.18	107	200	AVG

Remark: 1. peak = Peak, AVG = Average
 2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



Test Voltage	120Vac, 60Hz	Frequency Range	1 – 11GHz
Environmental Conditions	25°C, 46% RH	6dB Bandwidth	1MHz
Test Date	2023/10/12	Test Distance	3m
Tested by	Karwin Kao	Polarization	Horizontal
Test Site	W08-966-1	Test Mode	B



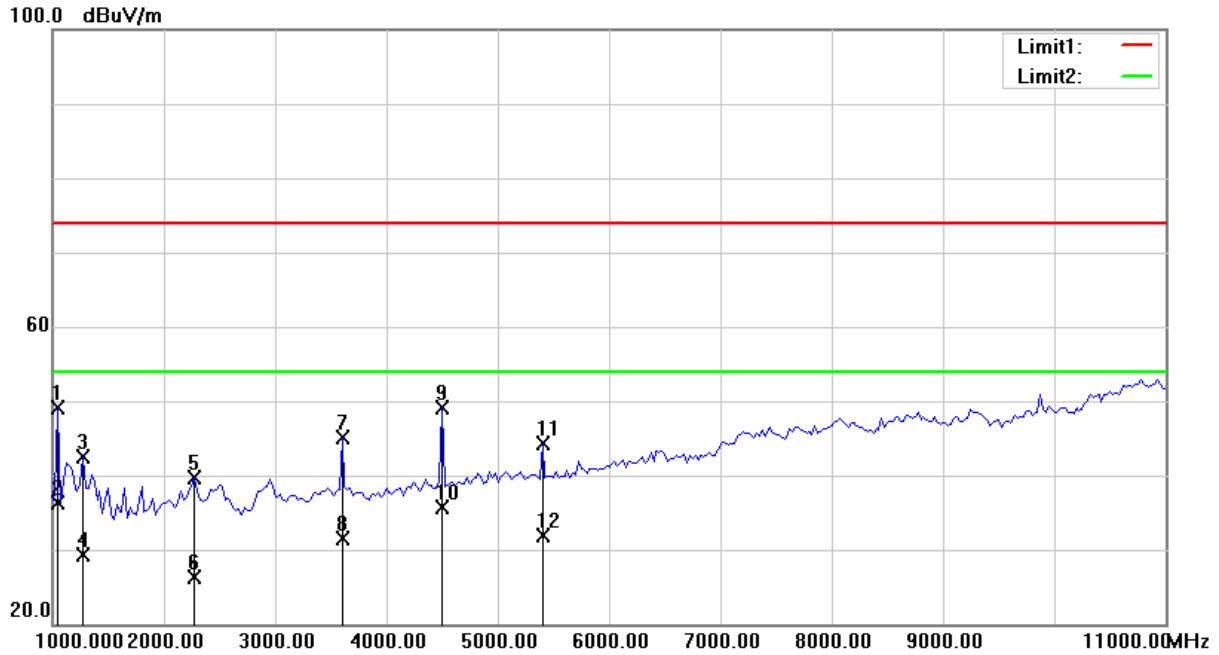
No.	Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB/m)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	1050.000	65.05	-19.03	46.02	74.00	-27.98	22	100	peak
2	1050.000	51.01	-19.03	31.98	54.00	-22.02	22	100	AVG
3	1275.000	57.58	-17.08	40.50	74.00	-33.50	42	200	peak
4	1275.000	43.85	-17.08	26.77	54.00	-27.23	42	200	AVG
5	2275.000	50.91	-11.80	39.11	74.00	-34.89	193	200	peak
6	2275.000	36.37	-11.80	24.57	54.00	-29.43	193	200	AVG
7	3600.000	52.34	-10.68	41.66	74.00	-32.34	101	100	peak
8	3600.000	38.66	-10.68	27.98	54.00	-26.02	101	100	AVG
9	9225.000	46.51	2.66	49.17	74.00	-24.83	223	100	peak
10	9225.000	32.55	2.66	35.21	54.00	-18.79	223	100	AVG
11	10750.000	47.50	5.52	53.02	74.00	-20.98	132	100	peak
12	10750.000	33.19	5.52	38.71	54.00	-15.29	132	100	AVG

Remark:

1. peak = Peak, AVG = Average
2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value



Test Voltage	55Vdc (from PoE)	Frequency Range	1 – 11GHz
Environmental Conditions	25°C, 46% RH	6dB Bandwidth	1MHz
Test Date	2023/10/12	Test Distance	3m
Tested by	Karwin Kao	Polarization	Vertical
Test Site	W08-966-1	Test Mode	C

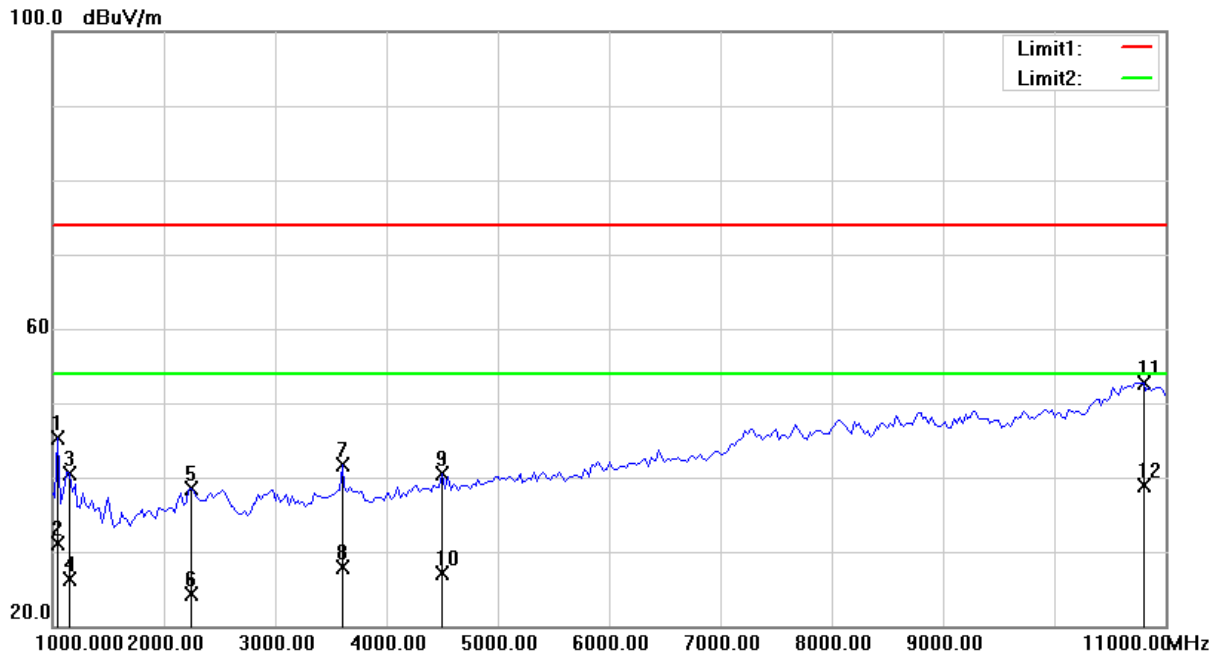


No.	Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB/m)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	1050.000	68.12	-19.03	49.09	74.00	-24.91	306	100	peak
2	1050.000	55.24	-19.03	36.21	54.00	-17.79	306	100	AVG
3	1275.000	59.53	-17.08	42.45	74.00	-31.55	360	111	peak
4	1275.000	46.41	-17.08	29.33	54.00	-24.67	360	111	AVG
5	2275.000	51.46	-11.80	39.66	74.00	-34.34	57	200	peak
6	2275.000	38.07	-11.80	26.27	54.00	-27.73	57	200	AVG
7	3600.000	55.73	-10.68	45.05	74.00	-28.95	0	200	peak
8	3600.000	42.19	-10.68	31.51	54.00	-22.49	0	200	AVG
9	4500.000	57.71	-8.63	49.08	74.00	-24.92	22	200	peak
10	4500.000	44.31	-8.63	35.68	54.00	-18.32	22	200	AVG
11	5400.000	51.03	-6.73	44.30	74.00	-29.70	114	100	peak
12	5400.000	38.67	-6.73	31.94	54.00	-22.06	114	100	AVG

Remark: 1. peak = Peak, AVG = Average
 2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
 3. Measurement Value = Reading Level + Correct Factor
 4. Margin Level = Measurement Value - Limit Value



Test Voltage	55Vdc (from PoE)	Frequency Range	1 – 11GHz
Environmental Conditions	25°C, 46% RH	6dB Bandwidth	1MHz
Test Date	2023/10/12	Test Distance	3m
Tested by	Karwin Kao	Polarization	Horizontal
Test Site	W08-966-1	Test Mode	C



No.	Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB/m)	Measurement (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Table Degree (degree)	Antenna Height (cm)	Detector
1	1050.000	64.24	-19.03	45.21	74.00	-28.79	186	100	peak
2	1050.000	50.20	-19.03	31.17	54.00	-22.83	186	100	AVG
3	1150.000	58.45	-17.85	40.60	74.00	-33.40	167	200	peak
4	1150.000	44.09	-17.85	26.24	54.00	-27.76	167	200	AVG
5	2250.000	50.78	-12.19	38.59	74.00	-35.41	189	100	peak
6	2250.000	36.45	-12.19	24.26	54.00	-29.74	189	100	AVG
7	3600.000	52.32	-10.68	41.64	74.00	-32.36	160	100	peak
8	3600.000	38.63	-10.68	27.95	54.00	-26.05	160	100	AVG
9	4500.000	49.22	-8.63	40.59	74.00	-33.41	360	101	peak
10	4500.000	35.74	-8.63	27.11	54.00	-26.89	360	101	AVG
11	10800.000	47.16	5.62	52.78	74.00	-21.22	215	200	peak
12	10800.000	33.23	5.62	38.85	54.00	-15.15	215	200	AVG

Remark:

1. peak = Peak, AVG = Average
2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value

4.2.7 Photographs of Test Configuration

Radiated Emission Test (30MHz~1GHz)
Test mode A



Test mode B



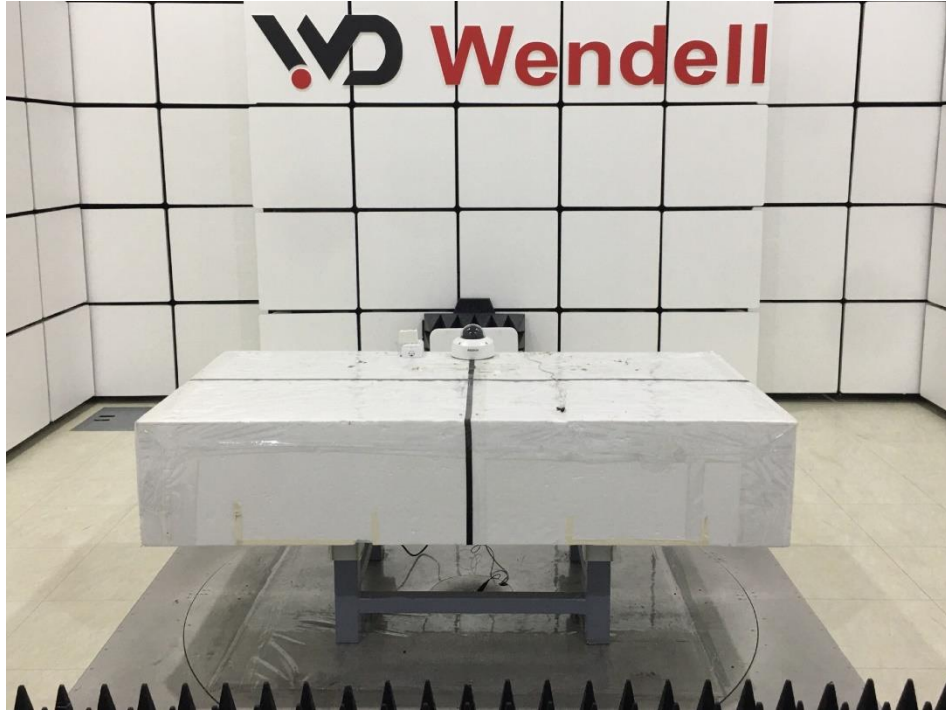
Test mode C



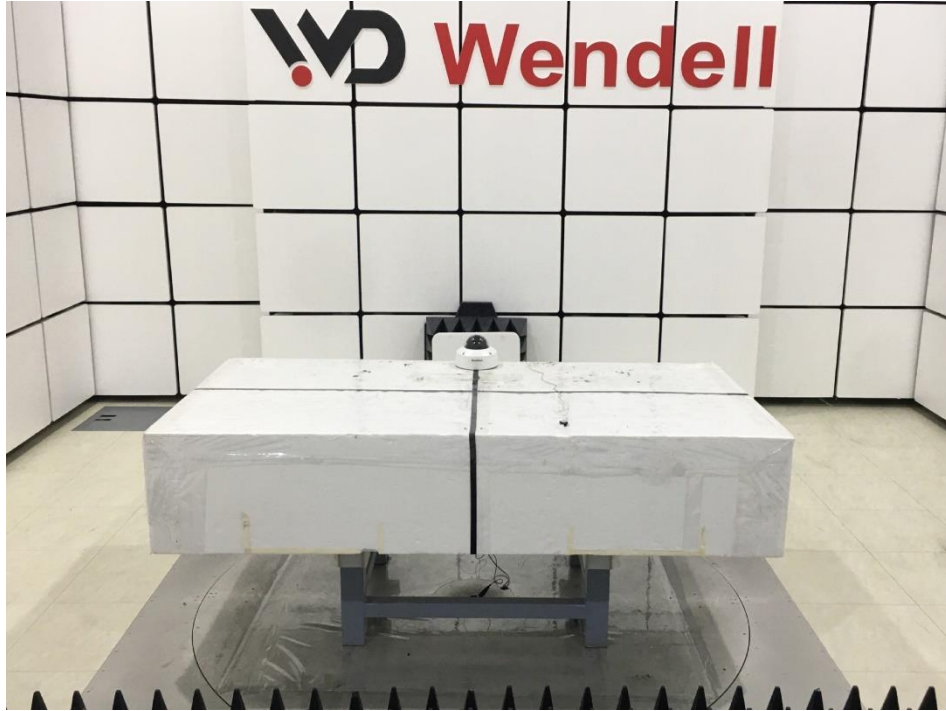
Radiated Emission Test (Above 1GHz)
Test mode A



Test mode B



Test mode C



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