

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart B, Class A
ANSI C63.4:2014

Report No.: FDCGWN-WTW-P22090020

Model No.: Edge 30 R+

FCC ID: 2A7XUEDGE30R

Received Date: 2022/9/1

Test Date: 2022/9/5

Issued Date: 2022/9/26

Applicant: Acura Technologies

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FCC Registration /

Designation Number: 328930 / TW1050



Approved by: _____, **Date:** 2022/9/26
Ace Wu / Project Engineer

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Prepared by : Anna Lee / Specialist



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Table of Contents

Release Control Record	3
1 Certificate.....	4
2 Summary of Test Results	5
2.1 Measurement Uncertainty	5
2.2 Supplementary Information	5
3 General Information	6
3.1 Description of EUT	6
3.2 Primary Clock Frequencies of Internal Source.....	6
3.3 Features of EUT	6
3.4 Operating Modes of EUT and Determination of Worst Case Operating Mode	7
3.5 Test Program Used and Operation Descriptions	8
3.6 Connection Diagram of EUT and Peripheral Devices	8
3.7 Configuration of Peripheral Devices and Cable Connections	9
4 Test Instruments	10
4.1 Conducted Emissions from Power Ports	10
4.2 Radiated Emissions up to 1 GHz	10
4.3 Radiated Emissions above 1 GHz.....	11
5 Limits of Test Items.....	12
5.1 Conducted Emissions from Power Ports	12
5.2 Radiated Emissions up to 1 GHz	12
5.3 Radiated Emissions above 1 GHz.....	12
6 Test Arrangements.....	13
6.1 Conducted Emissions from Power Ports	13
6.2 Radiated Emissions up to 1 GHz	14
6.3 Radiated Emissions above 1 GHz.....	15
7 Test Results of Test Item	16
7.1 Conducted Emissions from Power Ports	16
7.2 Radiated Emissions up to 1 GHz	18
7.3 Radiated Emissions above 1 GHz.....	20
8 Information of the Testing Laboratories	22



Release Control Record

Issue No.	Description	Date Issued
FDCGWN-WTW-P22090020	Original release.	2022/9/26

1 Certificate

Product: Edge 30 R+

Brand: ACURA Technologies, part of HID

Test Model: Edge 30 R+

FCC ID: 2A7XUEDGE30R

Sample Status: Engineering sample

Applicant: Acura Technologies

Test Date: 2022/9/5

Standard: 47 CFR FCC Part 15, Subpart B, Class A
ANSI C63.4:2014

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & 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.

2 Summary of Test Results

The test items that the EUT need to perform in accordance with its interfaces, evaluated functions, are as follows:

Standard / Clause	Test Item	Result	Remark
FCC Part 15.107	Conducted Emissions from Power Ports	Pass	Minimum passing Class A margin is -17.18 dB at 16.23000 MHz
FCC Part 15.109	Radiated Emissions up to 1 GHz	Pass	Minimum passing Class A margin is -12.16 dB at 119.97 MHz
FCC Part 15.109	Radiated Emissions above 1 GHz	Pass	Minimum passing Class A margin is -24.17 dB at 4795.25 MHz

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)	Maximum allowable uncertainty (±)
Conducted Emissions from Power Ports	9 kHz ~ 30 MHz	2.79 dB	3.4 dB (U_{cispr})
Radiated Emissions up to 1 GHz	30 MHz ~ 1 GHz	4.12 dB	6.3 dB (U_{cispr})
Radiated Emissions above 1 GHz	1 GHz ~ 6 GHz	5.09 dB	5.2 dB (U_{cispr})

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 Description of EUT

Product	Edge 30 R+
Brand	ACURA Technologies, part of HID
Test Model	Edge 30 R+
FCC ID	2A7XUEDGE30R
RFID module FCC ID	QV5MERCURY6E-M
Sample Status	Engineering sample
Operating Software	N/A
Power Supply Rating	IEEE 802.3af PoE Injector (15.4W)
Accessory Device	N/A
Data Cable Supplied	N/A

3.2 Primary Clock Frequencies of Internal Source

The highest frequency generated or used within the EUT or on which the EUT operates or tunes is 928MHz, provided by Acura Technologies., for detailed internal source, please refer to the manufacturer's specifications.

3.3 Features of EUT

The tests reported herein were performed according to the method specified by Acura Technologies., for detailed feature description, please refer to the manufacturer's specifications or user's manual.

Please refer to appendix of the report if the applicant has provided additional descriptions of the EUT.

3.4 Operating Modes of EUT and Determination of Worst Case Operating Mode

Test modes are presented in the report as below.

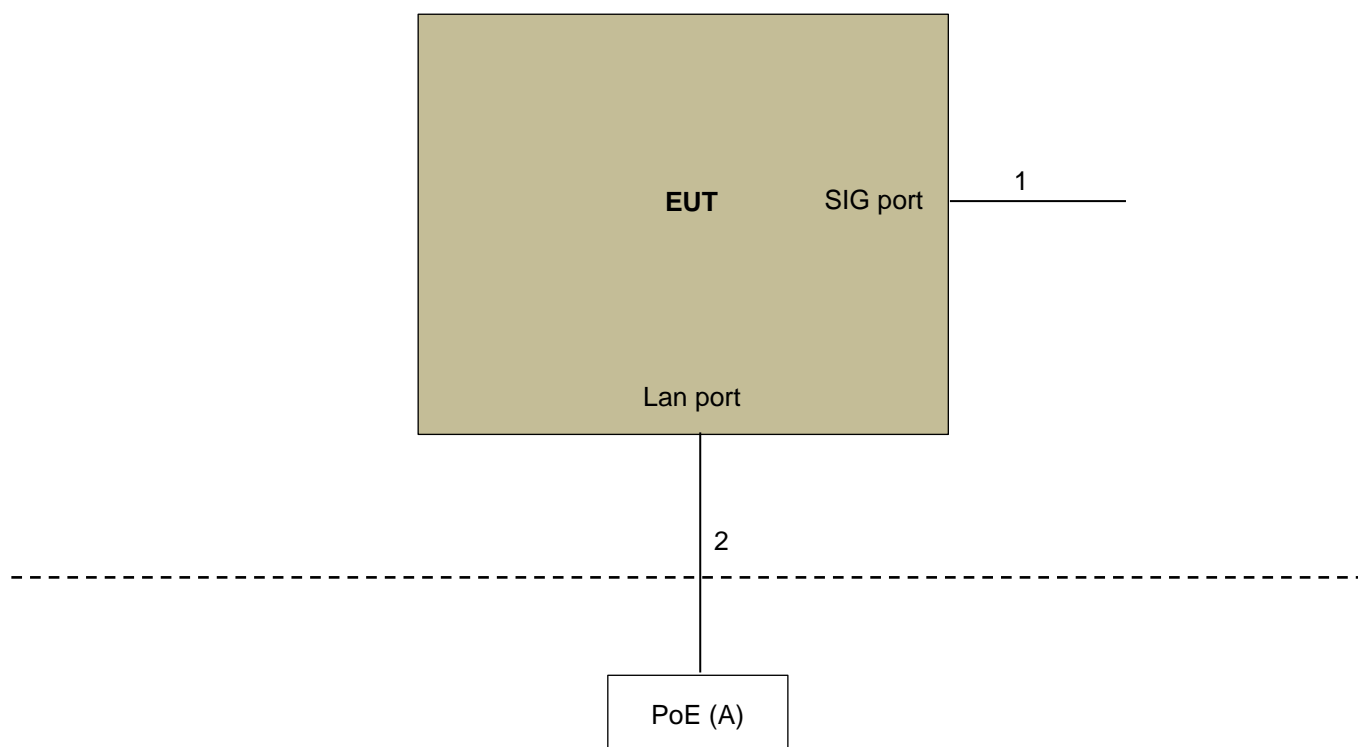
Test Condition	
Mode	Conducted Emissions from Power Ports
A	EUT + RFID TX + SIG with cable + POE adapter
Mode	Radiated Emissions up to 1 GHz
A	EUT + RFID TX + SIG with cable + POE adapter
Mode	Radiated Emissions above 1 GHz
A	EUT + RFID TX + SIG with cable + POE adapter

3.5 Test Program Used and Operation Descriptions

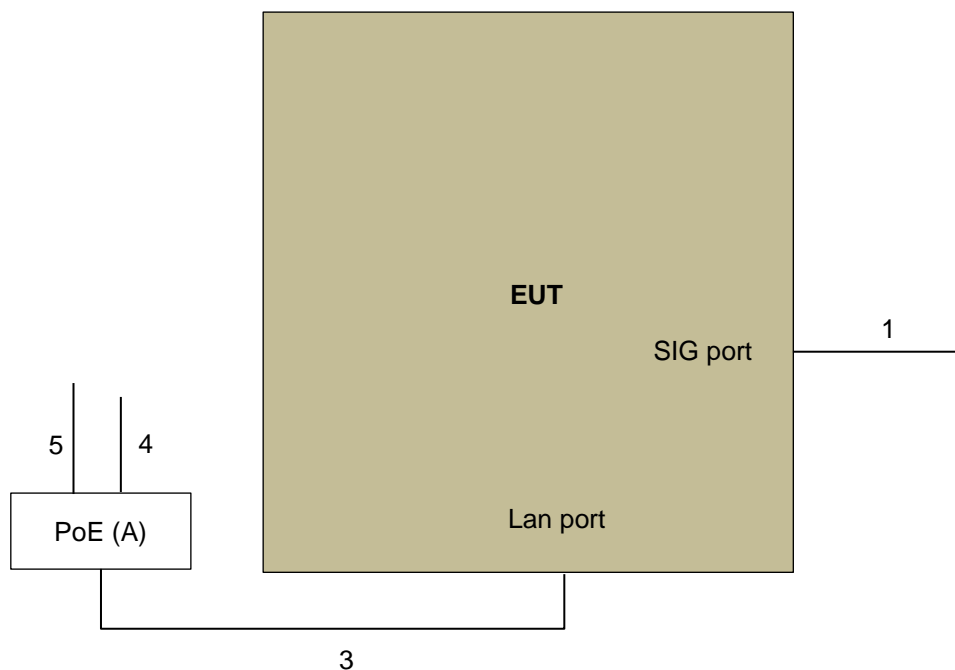
- a. Connected the EUT with POE adapter.
- b. EUT send the datas via the RFID transmission.

3.6 Connection Diagram of EUT and Peripheral Devices

For Radiated Emission test



For Conduction Emission test



3.7 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	PoE	quality networks	UPE5600-IHGM	R215900728	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	LAN Cable	1	1.8	No	0	RJ45 Cat.5e, Provided by Lab
2	LAN Cable	1	10	No	0	RJ45 Cat.5e, Provided by Lab
3	LAN Cable	1	1	No	0	RJ45 Cat.5e, Provided by Lab
4	LAN Cable	1	1.8	No	0	RJ45 Cat.5e, Provided by Lab
5	Power Cable	1	1.8	No	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Conducted Emissions from Power Ports

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
DC-LISN SCHWARZBECK MESS- ELETRONIK	NNBM 8126G	8126G-069	2021/11/10	2022/11/9
LISN R&S	ESH3-Z5	100311	2021/9/7	2022/9/6
LISN ROHDE & SCHWARZ	ENV216	101826	2022/3/14	2023/3/13
LISN Schwarzbeck	NNLK 8121	8121-731	2022/5/26	2023/5/25
RF Coaxial Cable WOKEN	5D-FB	Cable-cond1-01	2022/1/15	2023/1/14
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
Test Receiver Rohde&Schwarz	ESCI	100613	2021/12/3	2022/12/2

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2022/9/5

4.2 Radiated Emissions up to 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Amplifier Agilent	8447D	2944A10738	2022/7/9	2023/7/8
Antenna Tower BVADT	AT100	AT93021702	N/A	N/A
Attenuator Mini-Circuits	UNAT-5+	PAD-CH3-01	2022/5/14	2023/5/13
BILOG Antenna Schwarzbeck	VULB9168	9168-171	2021/10/29	2022/10/28
Controller BVADT	SC100	SC93021702	N/A	N/A
RF Coaxial Cable WORKEN	8D-FB	Cable-CH3-01	2022/5/14	2023/5/13
Software BVADT	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Test Receiver R&S	ESR3	102579	2022/7/1	2023/6/30
Turn Table BVADT	TT100	TT93021702	N/A	N/A

Notes:

1. The test was performed in HY - 966 Chamber 2. The test site validated date: 2021/11/08 (NSA)
2. Tested Date: 2022/9/5

4.3 Radiated Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower BVADT	AT100	AT93021702	N/A	N/A
Attenuator Mini-Circuits	BW-N4W5+	PAD-CH3-03	2022/7/9	2023/7/8
Boresight antenna tower fixture BV	BAF-02	3	N/A	N/A
Controller BVADT	SC100	SC93021702	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120 D	209	2021/11/14	2022/11/13
N9030B - PXA Signal Analyzer KEYSIGHT	N9030B	MY60070562	2022/1/6	2023/1/5
Pre_Amplifier Agilent	8449B	3008A02465	2022/3/19	2023/3/18
RF Coaxial Cable HUBER+SUHNER&EMCI	SUCOFLEX 104&EMC104-SM-SM- 8000	Cable-CH3- 03(309224+170907)	2022/7/9	2023/7/8
Software BVADT	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Turn Table BVADT	TT100	TT93021702	N/A	N/A

Notes:

1. The test was performed in HY - 966 Chamber 2. The test site validated date: 2022/5/21 (VSWR)
2. Tested Date: 2022/9/5

5 Limits of Test Items

5.1 Conducted Emissions from Power Ports

Frequency (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Notes: 1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases linearly with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.2 Radiated Emissions up to 1 GHz

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 10 meters (dB μ V/m)				
Frequencies (MHz)	FCC 15B, Class A	FCC 15B, Class B	CISPR 22, Class A	CISPR 22, Class B
30-88	39.1	29.5	40	30
88-216	43.5	33.1		
216-230	46.4	35.6		
230-960				
960-1000	49.5	43.5	47	37

Radiated Emissions Limits at 3 meters (dB μ V/m)				
Frequencies (MHz)	FCC 15B, Class A	FCC 15B, Class B	CISPR 22, Class A	CISPR 22, Class B
30-88	49.5	40.0	50.5	40.5
88-216	54.0	43.5		
216-230	56.9	46.0		
230-960				
960-1000	60.0	54.0	57.5	47.5

Notes: 1. The lower limit shall apply at the transition frequencies.

5.3 Radiated Emissions above 1 GHz

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)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40GHz, whichever is lower

Radiated Emissions Limits at 3 meters (dB μ V/m)		
Frequency range	Class A	Class B
Above 1GHz	Avg: 60 Peak: 80	Avg: 54 Peak: 74

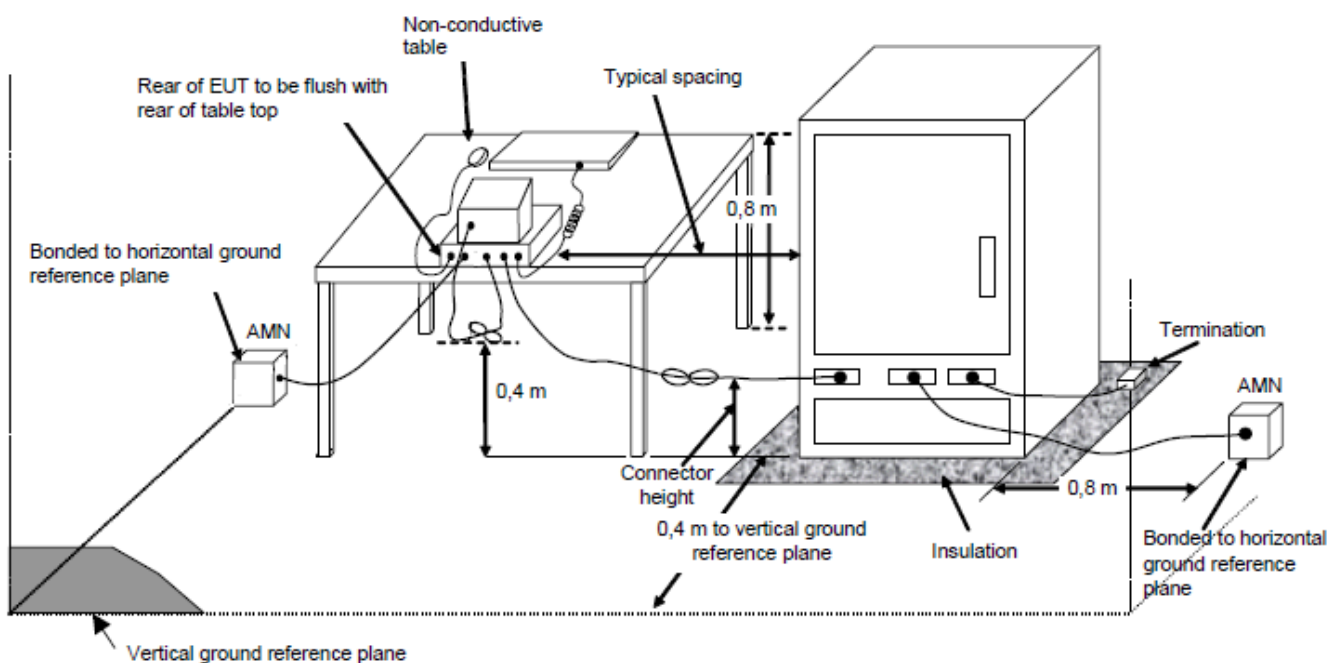
Notes: 1. These limit levels apply for a measurement distance of 3 m. If using a different measurement distance, the measured levels shall be extrapolated to the 3 m limit distance using a factor of 20 dB per decade of distance. The measurement distance shall place the measurement antenna in the far field of the ITE or digital apparatus under test.

6 Test Arrangements

6.1 Conducted Emissions from Power Ports

- For the table-top EUT is placed on a 0.8 meter insulation table; for the floor standing EUT shall be insulated (by insulation of 12 mm) from the horizontal reference ground plane. The EUT is placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units are connected to the power mains through another LISN. They provide coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The test results of conducted emissions at mains ports are recorded of six worst margins for quasi-peak (mandatory) [and average (if necessary)] values against the limits at frequencies of interest unless the margin is 20 dB or greater.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

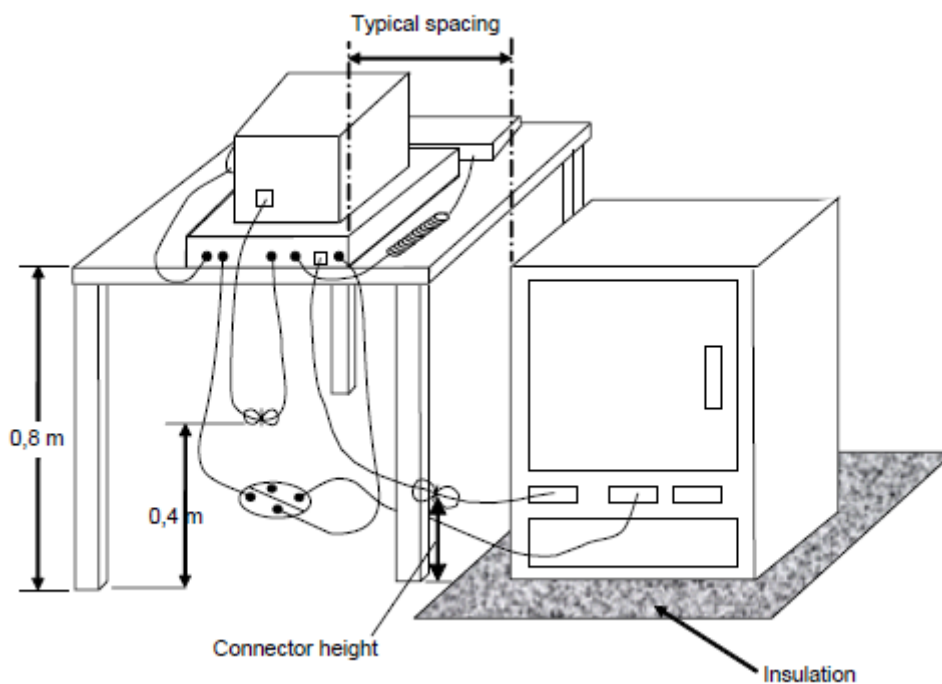


For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

6.2 Radiated Emissions up to 1 GHz

- For the table-top EUT is placed on a 0.8 meter to the top of rotating table; for the floor standing EUT shall be insulated (by insulation of 12 mm) from the horizontal reference ground plane. The rotating table is rotated 360 degrees to determine the position of the highest radiation. If the equipment requires a dedicated ground connection, this shall be provided and bonded to the RGP.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is up to 1 GHz.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency up to 1GHz.

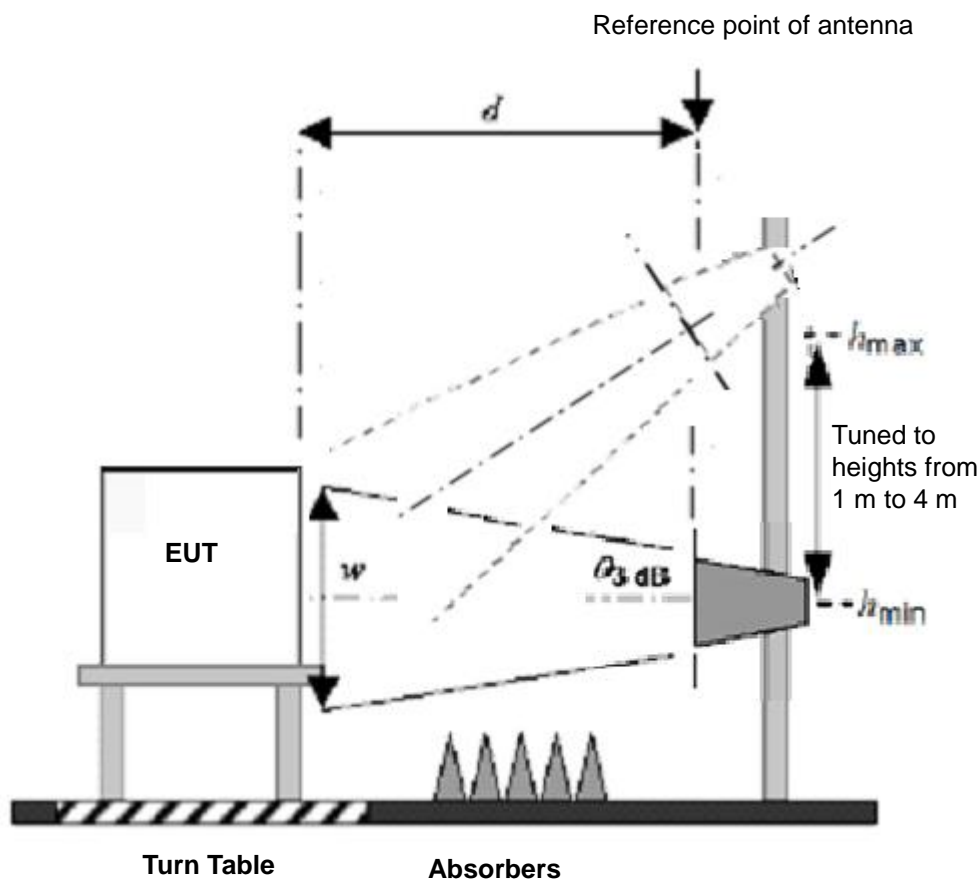


For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

6.3 Radiated Emissions above 1 GHz

- For the table-top EUT is placed on a 0.8 meter to the top of rotating table; for the floor standing EUT shall be insulated (by insulation of 12 mm) from the horizontal reference ground plane. The rotating table is rotated 360 degrees to determine the position of the highest radiation. If the equipment requires a dedicated ground connection, this shall be provided and bonded to the RGP.
- The EUT was set $d = 3$ meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The spectrum analyzer system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

Note: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection (PK) at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

7 Test Results of Test Item

7.1 Conducted Emissions from Power Ports

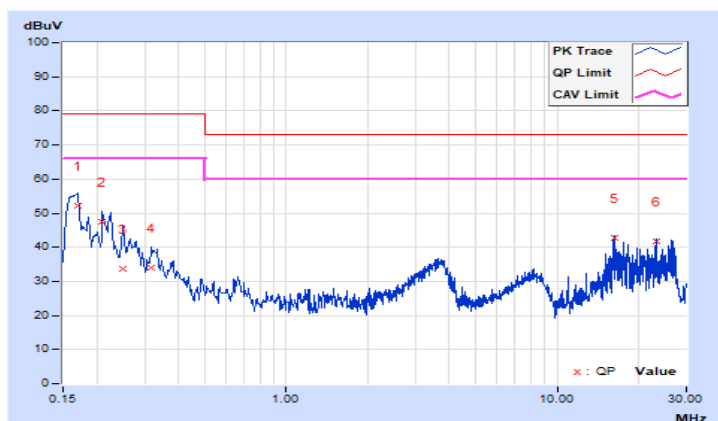
Mode A

Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 72% RH
Tested by	Slash Huang		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16977	9.63	42.58	26.76	52.21	36.39	79.00	66.00	-26.79	-29.61
2	0.21000	9.64	37.71	25.02	47.35	34.66	79.00	66.00	-31.65	-31.34
3	0.25000	9.65	23.89	12.37	33.54	22.02	79.00	66.00	-45.46	-43.98
4	0.31800	9.67	24.20	11.20	33.87	20.87	79.00	66.00	-45.13	-45.13
5	16.23000	9.85	32.77	32.73	42.62	42.58	73.00	60.00	-30.38	-17.42
6	23.13000	9.87	31.93	31.92	41.80	41.79	73.00	60.00	-31.20	-18.21

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

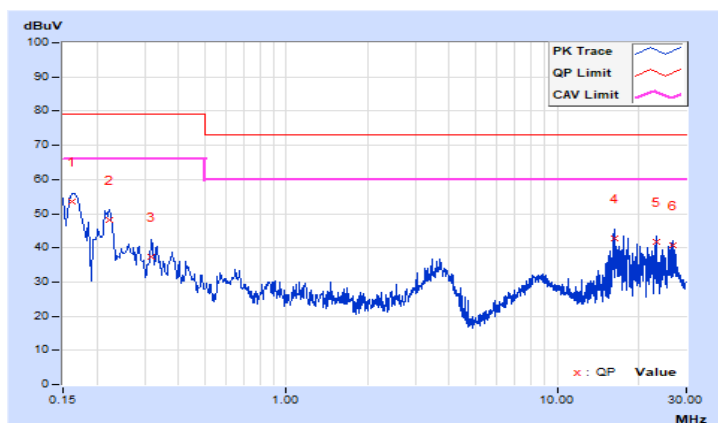


Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 72% RH
Tested by	Slash Huang		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16190	9.62	44.05	30.38	53.67	40.00	79.00	66.00	-25.33	-26.00
2	0.22200	9.65	38.61	28.32	48.26	37.97	79.00	66.00	-30.74	-28.03
3	0.31800	9.67	27.84	17.17	37.51	26.84	79.00	66.00	-41.49	-39.16
4	16.23000	9.87	32.96	32.95	42.83	42.82	73.00	60.00	-30.17	-17.18
5	23.13000	9.88	31.71	31.70	41.59	41.58	73.00	60.00	-31.41	-18.42
6	26.61000	9.87	30.84	30.46	40.71	40.33	73.00	60.00	-32.29	-19.67

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



7.2 Radiated Emissions up to 1 GHz

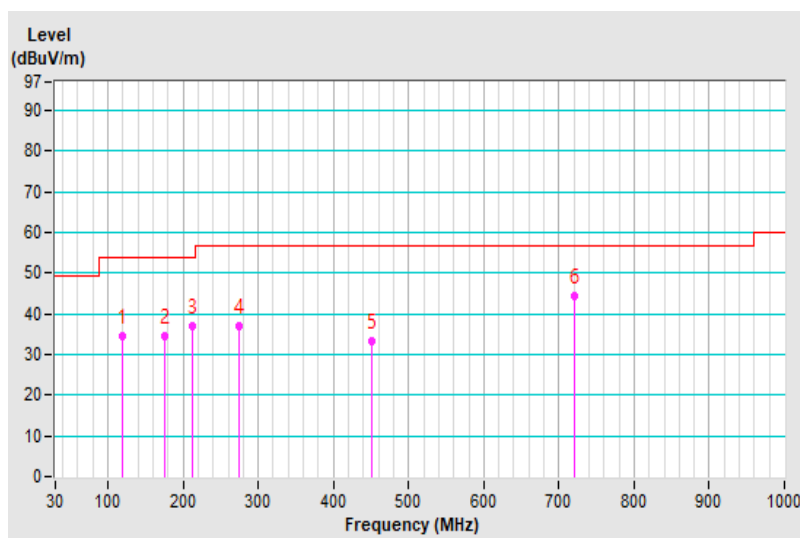
Mode A

Frequency Range	30 MHz ~ 1 GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120 kHz
Input Power	48 Vdc	Environmental Conditions	25°C, 75% RH
Tested By	Nick Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	119.97	34.64 QP	54.00	-19.36	3.00 H	265	46.01	-11.37
2	174.97	34.63 QP	54.00	-19.37	1.50 H	93	44.17	-9.54
3	212.76	37.00 QP	54.00	-17.00	1.00 H	108	48.62	-11.62
4	274.99	36.98 QP	56.90	-19.92	1.50 H	99	45.09	-8.11
5	450.03	33.42 QP	56.90	-23.48	1.00 H	175	37.96	-4.54
6	721.11	44.40 QP	56.90	-12.50	1.00 H	12	44.21	0.19

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

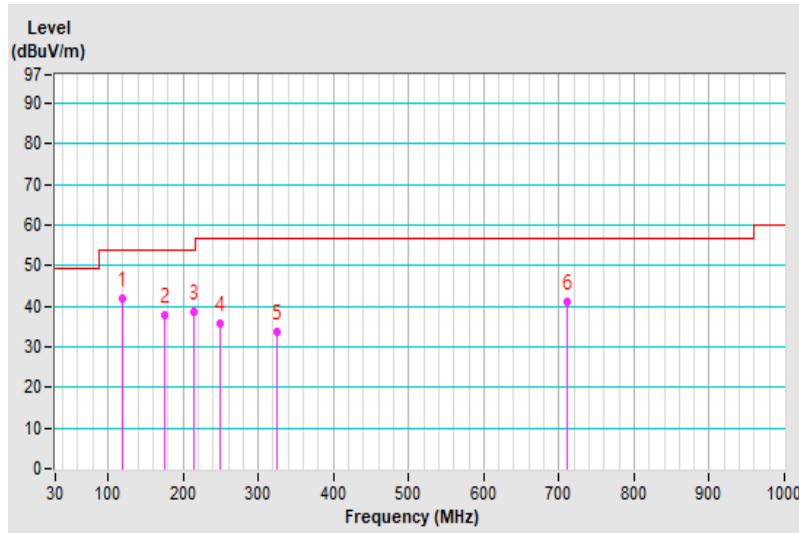


Frequency Range	30 MHz ~ 1 GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120 kHz
Input Power	48 Vdc	Environmental Conditions	25°C, 75% RH
Tested By	Nick Wu		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	119.97	41.84 QP	54.00	-12.16	1.00 V	58	53.21	-11.37
2	174.97	37.85 QP	54.00	-16.15	1.00 V	182	47.39	-9.54
3	213.58	38.52 QP	54.00	-15.48	1.00 V	168	50.11	-11.59
4	249.33	35.58 QP	56.90	-21.32	1.00 V	300	44.96	-9.38
5	324.99	33.58 QP	56.90	-23.32	2.00 V	118	40.50	-6.92
6	711.70	41.21 QP	56.90	-15.69	1.00 V	31	41.05	0.16

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value



7.3 Radiated Emissions above 1 GHz

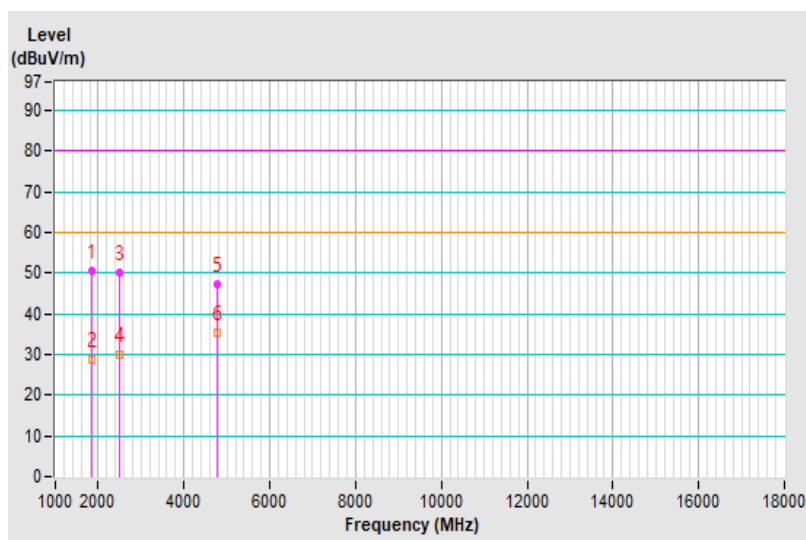
Mode A

Frequency Range	1GHz ~ 5GHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1MHz
Input Power	48 Vdc	Environmental Conditions	25°C, 75% RH
Tested By	Nick Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1851.70	50.66 PK	80.00	-29.34	1.00 H	3	53.16	-2.50
2	1851.70	28.77 AV	60.00	-31.23	1.00 H	3	31.27	-2.50
3	2509.60	50.02 PK	80.00	-29.98	1.50 H	203	49.81	0.21
4	2509.60	30.04 AV	60.00	-29.96	1.50 H	203	29.83	0.21
5	4761.25	47.12 PK	80.00	-32.88	1.85 H	58	41.17	5.95
6	4761.25	35.40 AV	60.00	-24.60	1.85 H	58	29.45	5.95

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

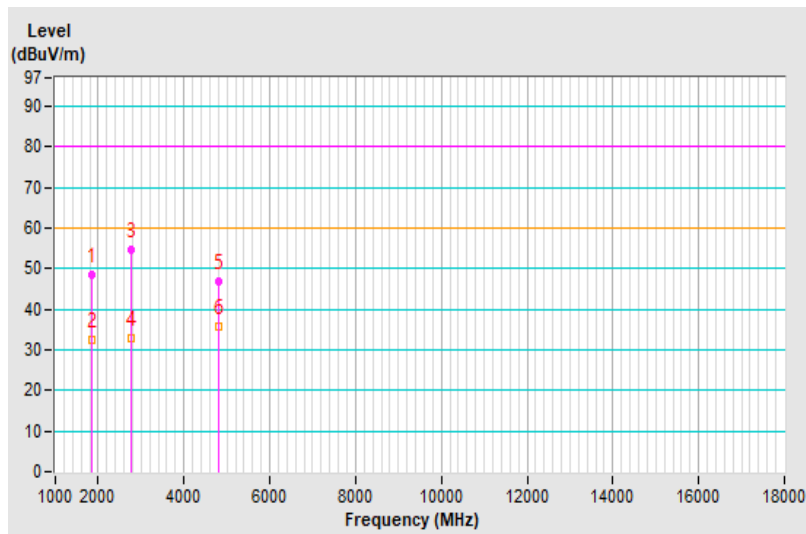


Frequency Range	1GHz ~ 5GHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1MHz
Input Power	48 Vdc	Environmental Conditions	25°C, 75% RH
Tested By	Nick Wu		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1854.29	48.37 PK	80.00	-31.63	1.00 V	360	50.85	-2.48
2	1854.29	32.41 AV	60.00	-27.59	1.00 V	360	34.89	-2.48
3	2779.05	54.70 PK	80.00	-25.30	1.00 V	1	53.56	1.14
4	2779.05	32.89 AV	60.00	-27.11	1.00 V	1	31.75	1.14
5	4795.25	46.69 PK	80.00	-33.31	1.22 V	333	40.71	5.98
6	4795.25	35.83 AV	60.00	-24.17	1.22 V	333	29.85	5.98

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value



8 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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