

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart B, Class A
ANSI C63.4-2014
ANSI C63.4a-2017

Report No.: FCCGWN-WTW-P25110371

Product: UHF RFID Reader

Brand: ACURA Technologies, part of HID

Model No.: EDGE-35R TCP/IP Wi-Fi

FCC ID: 2A7XUEEDGE35WIFI

Received Date: 2025/12/31

Test Date: 2026/3/10 ~ 2026/3/20

Issued Date: 2026/4/29

Applicant: Acura Technologies

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration /
Designation Number: 328930 / TW1050

Approved by: _____



Mart Su / Senior Manager

, Date: _____

2026/4/29

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Prepared by : Vida Chen / 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	6
3.5 Test Program Used and Operation Descriptions	6
3.6 Connection Diagram of EUT and Peripheral Devices	7
3.7 Configuration of Peripheral Devices and Cable Connections	8
4 Test Instruments	9
4.1 Conducted Emissions from Power Ports.....	9
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	24

Release Control Record

Issue No.	Description	Date Issued
FCCGWN-WTW-P25110371	Original release.	2026/4/29

1 Certificate

Product: UHF RFID Reader

Brand: ACURA Technologies, part of HID

Test Model: EDGE-35R TCP/IP Wi-Fi

Sample Status: Engineering sample

Applicant: Acura Technologies

Test Date: 2026/3/10 ~ 2026/3/20

Standard: 47 CFR FCC Part 15, Subpart B, Class A
ANSI C63.4–2014
ANSI C63.4a–2017

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 -25.51 dB at 26.61000 MHz
FCC Part 15.109	Radiated Emissions up to 1 GHz	Pass	Minimum passing Class A margin is -3.45 dB at 623.61 MHz
FCC Part 15.109	Radiated Emissions above 1 GHz	Pass	Minimum passing Class A margin is -23.06 dB at 3070.86 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	2.90 dB	3.4 dB (U_{CISPR})
Radiated Emissions up to 1 GHz	30 MHz ~ 1 GHz	4.24 dB	6.3 dB (U_{CISPR})
Radiated Emissions above 1 GHz	1 GHz ~ 6 GHz	4.93 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	UHF RFID Reader
Brand	ACURA Technologies, part of HID
Test Model	EDGE-35R TCP/IP Wi-Fi
Sample Status	Engineering sample
FCC ID	2A7XUEDGE35WIFI
Power Supply Rating	37-57Vdc from POE injector

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 5.85GHz, 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

The EUT has been pre-tested under following test modes.

Test Condition	
Mode	Radiated Emissions up to 1 GHz
1	EUT(Laying-flat) + LAN(100 Mbps) + WiFi(2.4G / 5G) + RFID(TX) + SIG Port(with cable) + POE adapter + Input Power(48 Vdc)
2	EUT(Stand-up) + LAN(100 Mbps) + WiFi(2.4G / 5G) + RFID(TX) + SIG Port(with cable) + POE adapter + Input Power(48 Vdc)
Note: The worst case is mode 2 shown in bold.	

Test modes are presented in the report as below.

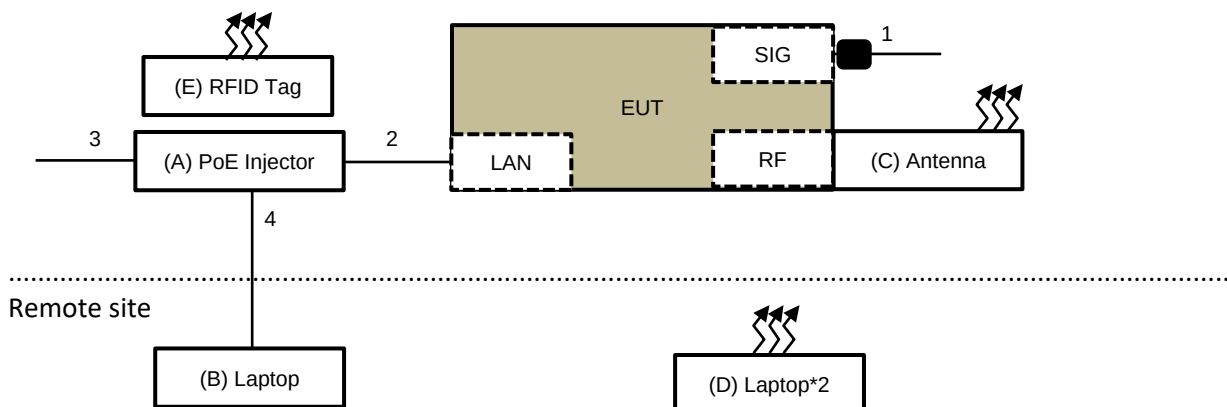
Test Condition	
Mode	Conducted Emissions from Power Ports
A	EUT(Stand-up) + LAN(100 Mbps) + WiFi(2.4G / 5G) + RFID(TX) + SIG Port(with cable) + Input Power(48 Vdc form POE adapter <120 Vac, 60 Hz>)
Mode	Radiated Emissions up to 1 GHz
A	EUT(Stand-up) + LAN(100 Mbps) + WiFi(2.4G / 5G) + RFID(TX) + SIG Port(with cable) + POE adapter + Input Power(48 Vdc)
Mode	Radiated Emissions above 1 GHz
A	EUT(Stand-up) + LAN(100 Mbps) + WiFi(2.4G / 5G) + RFID(TX) + SIG Port(with cable) + POE adapter + Input Power(48 Vdc)

3.5 Test Program Used and Operation Descriptions

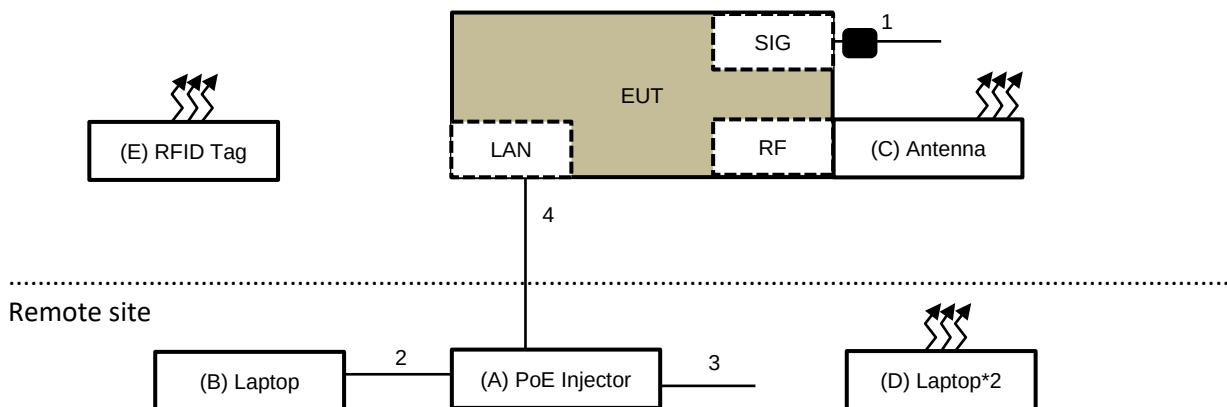
- The EUT powered by PoE Injector.
- The EUT read RFID Tag.
- The EUT linked with Laptop, which acted as a communication partners via LAN cable and WLAN 2.4G / 5G.
- The communication partners sent data to the EUT via LAN and WLAN and transmission.

3.6 Connection Diagram of EUT and Peripheral Devices

For Conduction Emission test



For Radiated Emissions test



3.7 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	PoE Injector	Acura	PSE3301AC	N/A	N/A	Supplied by applicant
B	Laptop	DELL	Latitude 5420	C6F33F3	N/A	Provided by Lab
C	Antenna	N/A	N/A	N/A	N/A	Supplied by applicant
D	Laptop	DELL	Latitude 5501	F42VP13	N/A	Provided by Lab
	Laptop	DELL	Latitude 5501	942VP13	N/A	Provided by Lab
E	RFID Tag	N/A	N/A	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Cat.5e	1	3	No	1	Provided by Lab
2	Cat.5e	1	1	No	0	Provided by Lab
3	Power	1	1.5	No	0	Supplied by applicant
4	Cat.5e	1	3	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
50 ohm terminal resistance	E1-011279	04	2025/12/4	2026/12/3
	E1-011280	05	2025/12/4	2026/12/3
	E1-011311	09	2025/12/4	2026/12/3
DC LISN Schwarzbeck	NNBM 8126G	8126G-069	2025/11/3	2026/11/2
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01617	2025/8/23	2026/8/22
EMI Test Receiver R&S	ESR3	102783	2025/12/15	2026/12/14
LISN R&S	ESH2-Z5	100100	2026/3/4	2027/3/3
	ESH3-Z5	100312	2025/8/29	2026/8/28
RF Coaxial Cable Woken	5D-FB	Cable-cond2-01	2025/8/23	2026/8/22
Software BVADT	BVADT_Cond_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2025/8/27	2026/8/26

Notes:

1. The test was performed in HY - Conduction 2.
2. The VCCI Site Registration No. is C-12047.
3. Tested Date: 2026/3/20

4.2 Radiated Emissions up to 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower (H)	MFA-440	970705	N/A	N/A
Antenna Tower (V)	MFA-440	9707	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-148	2025/12/17	2026/12/16
		9168-156	2025/12/17	2026/12/16
Controller (H)	MF7802	08093	N/A	N/A
Controller (V)	MF7802	074	N/A	N/A
EMI Test Receiver R&S	ESR7	101240	2025/12/8	2026/12/7
		101264	2025/4/16	2026/4/15
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-CH(H)-01	2025/8/23	2026/8/22
		PAD-CH(V)-01	2025/8/23	2026/8/22
Preamplifier Sonoma	310N	352923	2025/4/27	2026/4/26
		352924	2025/4/27	2026/4/26
RF Coaxial Cable TIMES	LMR-600(11.8M)+LMR-400 (7M)	CABLE-CH1(HOR)-01	2025/8/23	2026/8/22
	LMR-600(18M)+LMR-400 (7M)	CABLE-CH1(VER)-01	2025/8/23	2026/8/22
Software	ADT_Radiated_V8.8.09	N/A	N/A	N/A
Turn Table	DS430	50303	N/A	N/A

Notes:

1. The test was performed in HY - 10M Chamber. The test site validated date: 2025/7/19 (NSA)
2. The VCCI Site Registration No. is R-11893.
3. Tested Date: 2026/3/16

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
Boresight antenna tower fixture BV	BAF-02	3	N/A	N/A
Controller BVADT	SC100	SC93021702	N/A	N/A
Fixed Attenuator Mini-Circuits	BW-N4W5+	PAD-CH3-03	2025/6/30	2026/6/29
Horn Antenna ETS-Lindgren	3117	00034126	2025/10/28	2026/10/27
		00143293	2025/11/9	2026/11/8
Horn Antenna Schwarzbeck	BBHA 9120D	209	2025/11/9	2026/11/8
Notch Filter Micro-Tronics	BRM17690-01	002	2025/8/23	2026/8/22
	BRM50716-01	G010	2025/8/23	2026/8/22
Preamplifier Agilent	8449B	3008A02465	2026/1/3	2027/1/2
Preamplifier EMCI	EMC012645SE	980338	2025/4/27	2026/4/26
	EMC051845SE	981117	2025/8/23	2026/8/22
PSA Spectrum Analyzer Agilent	E4445A	MY51100006	2026/1/6	2027/1/5
RF Coaxial Cable EMCI	EM102-KMKM-1M	#01	2025/8/23	2026/8/22
	EM102-KMKM-3M	#01	2025/8/23	2026/8/22
	EMC102-KM-KM-1000	200311	2025/6/30	2026/6/29
	EMC102-KM-KM-3000	200313	2025/6/30	2026/6/29
Software BVADT	ADT_Radiated_V8.8.09	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: 2025/4/26 (VSWR)
2. The VCCI Site Registration No. is G-20126.
3. Tested Date: 2026/3/10

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 (dBµV/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 (dBμV/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			57.5	47.5
960-1000	60.0	54.0		

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

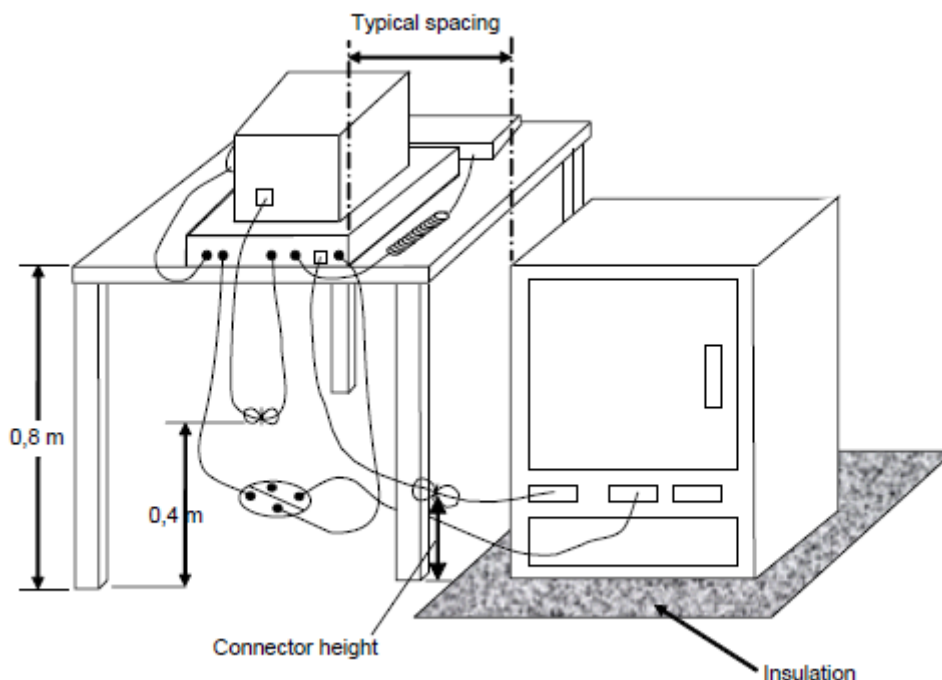
Radiated Emissions Limits at 3 meters (dBμV/m)		
Frequency range	Class A	Class B
Above 1GHz	Avg: 60 Peak: 80	Avg: 54 Peak: 74

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.

6.2 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 10 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.

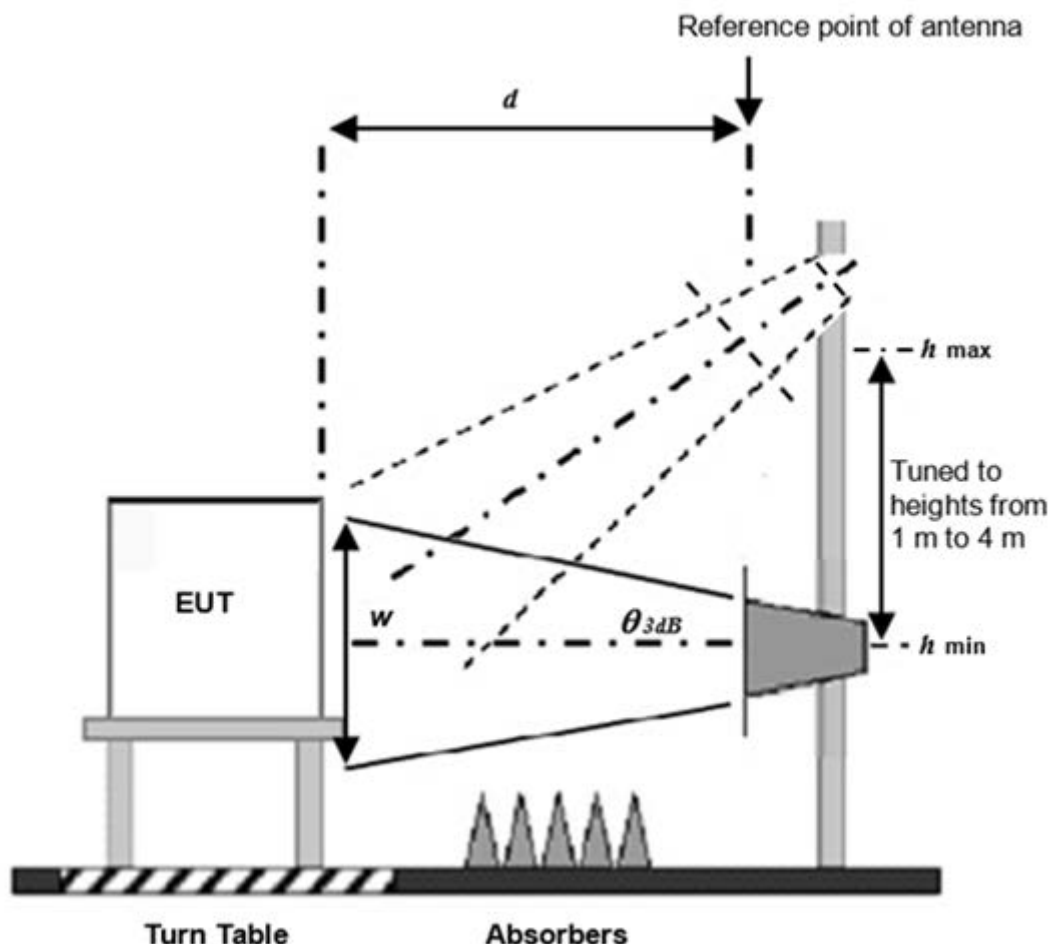


For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

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

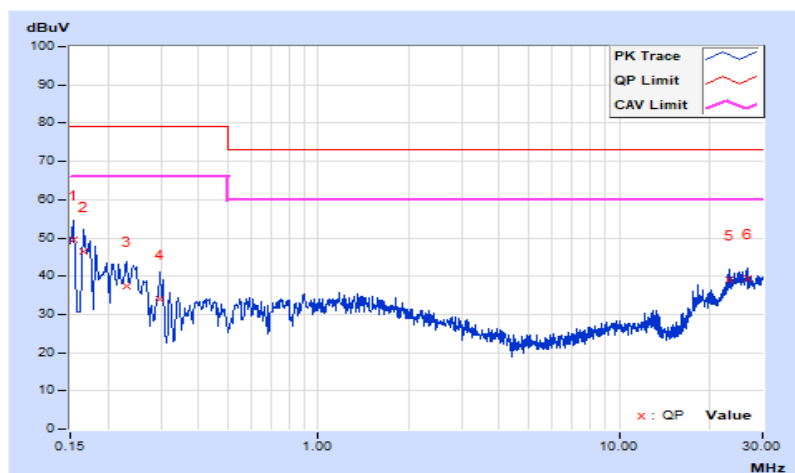
Mode A

Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	48 Vdc form POE adapter <120 Vac, 60 Hz>	Environmental Conditions	20 °C, 75% RH, 994.1 mbar
Tested by	Jim Lee		

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	0.15400	10.21	39.34	19.91	49.55	30.12	79.00	66.00	-29.45	-35.88
2	0.16600	10.20	36.33	19.80	46.53	30.00	79.00	66.00	-32.47	-36.00
3	0.22985	10.21	27.13	11.90	37.34	22.11	79.00	66.00	-41.66	-43.89
4	0.29800	10.26	23.84	17.12	34.10	27.38	79.00	66.00	-44.90	-38.62
5	23.13000	10.82	28.08	21.55	38.90	32.37	73.00	60.00	-34.10	-27.63
6	26.61000	10.66	28.88	23.83	39.54	34.49	73.00	60.00	-33.46	-25.51

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

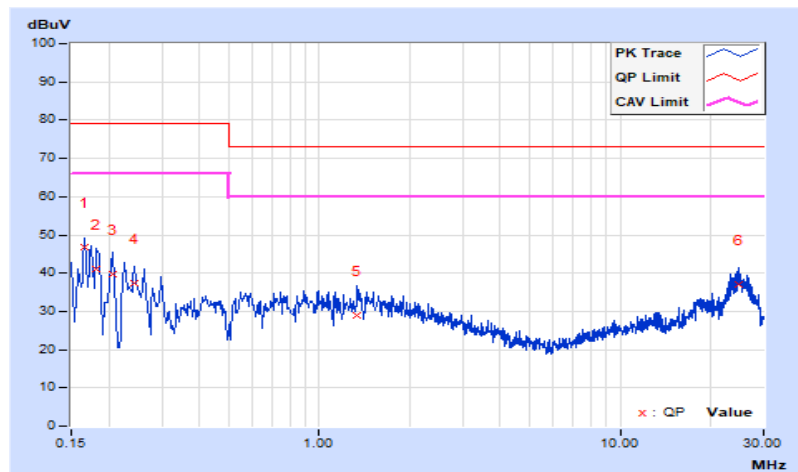


Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	48 Vdc form POE adapter <120 Vac, 60 Hz>	Environmental Conditions	20 °C, 75% RH, 994.1 mbar
Tested by	Jim Lee		

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	0.16600	10.21	36.69	20.65	46.90	30.86	79.00	66.00	-32.10	-35.14
2	0.18200	10.21	30.72	13.33	40.93	23.54	79.00	66.00	-38.07	-42.46
3	0.20600	10.20	29.69	14.33	39.89	24.53	79.00	66.00	-39.11	-41.47
4	0.24200	10.23	27.16	16.64	37.39	26.87	79.00	66.00	-41.61	-39.13
5	1.34200	10.42	18.53	10.17	28.95	20.59	73.00	60.00	-44.05	-39.41
6	24.90200	10.79	26.36	19.11	37.15	29.90	73.00	60.00	-35.85	-30.10

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

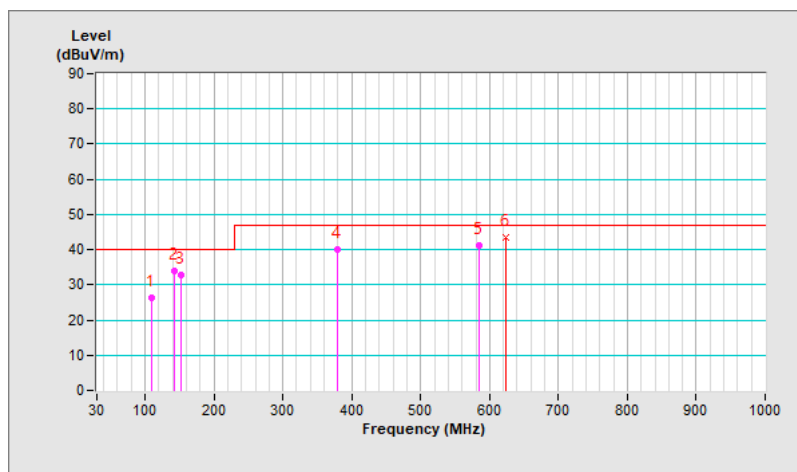
Mode A

Frequency Range	30 MHz ~ 1 GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120 kHz
Input Power	48 Vdc	Environmental Conditions	23 °C, 75% RH, 1000 mbar
Tested By	Brian Kuo		

Antenna Polarity & Test Distance : Horizontal at 10 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	109.09	26.29 QP	40.00	-13.71	3.00 H	312	42.58	-16.29
2	141.81	33.77 QP	40.00	-6.23	3.50 H	187	47.41	-13.64
3	152.74	32.89 QP	40.00	-7.11	4.00 H	148	46.00	-13.11
4	378.23	39.96 QP	47.00	-7.04	1.50 H	22	50.17	-10.21
5	584.68	41.10 QP	47.00	-5.90	3.00 H	15	46.43	-5.33
6	623.61	43.55 QP	47.00	-3.45	2.53 H	15	47.73	-4.18

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

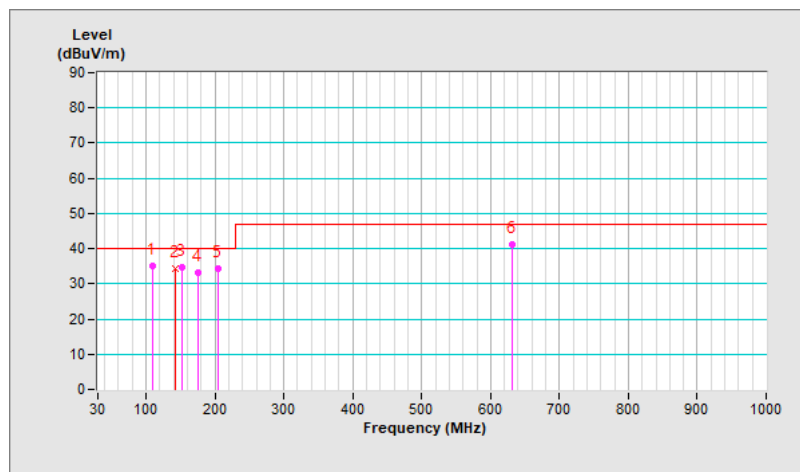


Frequency Range	30 MHz ~ 1 GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120 kHz
Input Power	48 Vdc	Environmental Conditions	23 °C, 75% RH, 1000 mbar
Tested By	Brian Kuo		

Antenna Polarity & Test Distance : Vertical at 10 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	109.09	35.17 QP	40.00	-4.83	1.50 V	165	51.82	-16.65
2	141.81	34.40 QP	40.00	-5.60	1.00 V	116	48.22	-13.82
3	152.74	34.69 QP	40.00	-5.31	2.00 V	77	48.03	-13.34
4	176.08	33.31 QP	40.00	-6.69	1.00 V	197	47.80	-14.49
5	204.15	34.16 QP	40.00	-5.84	1.50 V	35	50.69	-16.53
6	630.46	41.11 QP	47.00	-5.89	2.00 V	306	45.72	-4.61

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

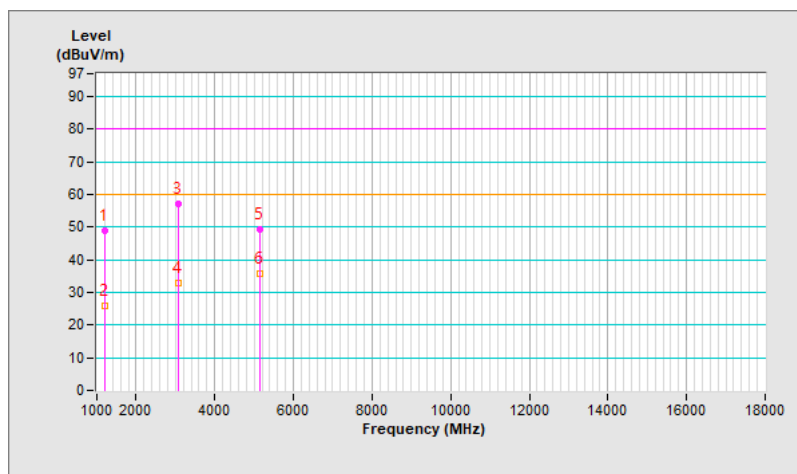
Mode A

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1 MHz
Input Power	48 Vdc	Environmental Conditions	25 °C, 75% RH, 980.6 mbar
Tested By	Brian Kuo		

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	1205.77	48.75 PK	80.00	-31.25	1.41 H	320	49.93	-1.18
2	1205.77	25.84 AV	60.00	-34.16	1.41 H	320	27.02	-1.18
3	3070.86	56.94 PK	80.00	-23.06	1.00 H	305	52.70	4.24
4	3070.86	32.71 AV	60.00	-27.29	1.00 H	305	28.47	4.24
5	5145.25	49.30 PK	80.00	-30.70	1.21 H	59	40.25	9.05
6	5145.25	35.82 AV	60.00	-24.18	1.21 H	59	26.77	9.05

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

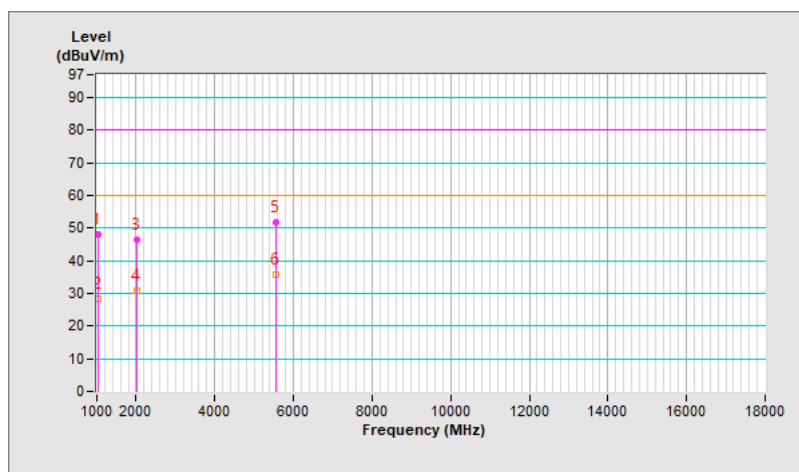


Frequency Range	1 GHz ~ 18 GHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1 MHz
Input Power	48 Vdc	Environmental Conditions	25 °C, 75% RH, 980.5 mbar
Tested By	Brian Kuo		

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	1050.63	47.92 PK	80.00	-32.08	1.44 V	207	49.99	-2.07
2	1050.63	28.40 AV	60.00	-31.60	1.44 V	207	30.47	-2.07
3	2024.86	46.44 PK	80.00	-33.56	1.12 V	297	44.69	1.75
4	2024.86	30.69 AV	60.00	-29.31	1.12 V	297	28.94	1.75
5	5561.77	51.92 PK	80.00	-28.08	1.00 V	110	43.21	8.71
6	5561.77	35.60 AV	60.00	-24.40	1.00 V	110	26.89	8.71

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

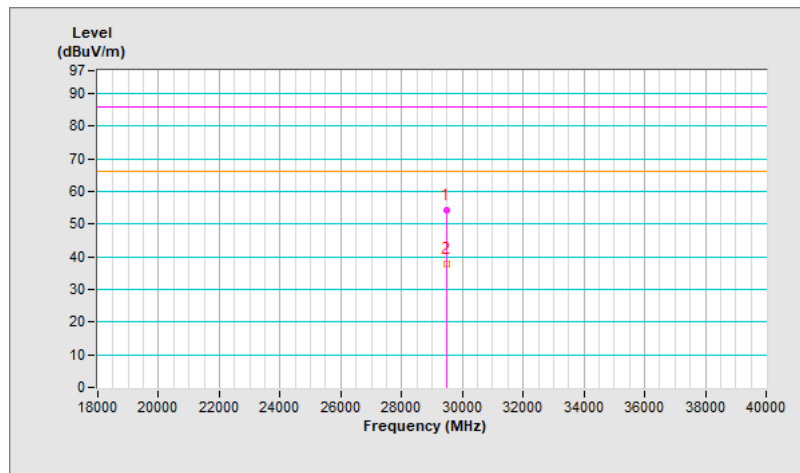


Frequency Range	18 GHz ~ 40 GHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1 MHz
Input Power	48 Vdc	Environmental Conditions	25 °C, 75% RH, 980.8 mbar
Tested By	Brian Kuo		

Antenna Polarity & Test Distance : Horizontal at 1.5 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	29504.77	54.15 PK	86.00	-31.85	1.00 H	115	51.94	2.21
2	29504.77	37.82 AV	66.00	-28.18	1.00 H	115	35.61	2.21

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

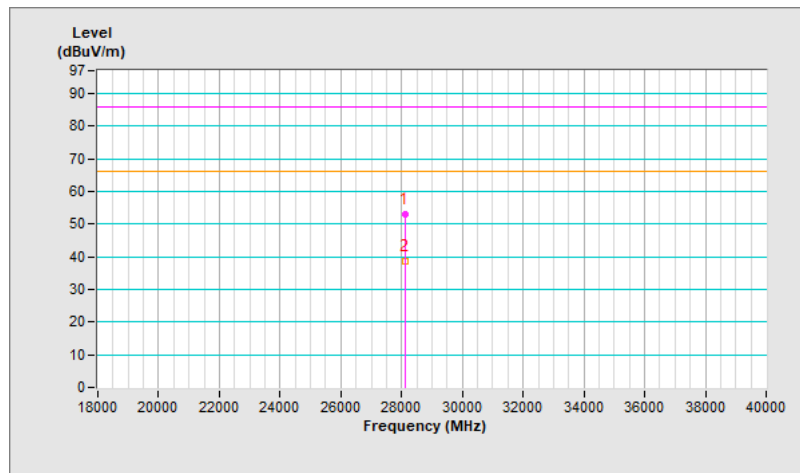


Frequency Range	18 GHz ~ 40 GHz	Detector Function & Resolution Bandwidth	Peak (PK) / Average (AV), 1 MHz
Input Power	48 Vdc	Environmental Conditions	25 °C, 75% RH, 980.8 mbar
Tested By	Brian Kuo		

Antenna Polarity & Test Distance : Vertical at 1.5 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	28127.65	53.08 PK	86.00	-32.92	1.00 V	224	51.31	1.77
2	28127.65	38.70 AV	66.00	-27.30	1.00 V	224	36.93	1.77

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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Web Site: <http://ee.bureauveritas.com.tw>

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

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