

FCC 47 CFR PART 15 SUBPART B TEST REPORT

for

Advanced Mini-ITX System MODEL: xxxxxAIS-Q572xx-xxxxxxxxxx (Where x is 0-9, A-Z, - or blank) for marketing purpose

Test Report Number: T110413203-F

Issued to:

AAEON Technology Inc.

5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist., New Taipei City, Taiwan, R.O.C.

Issued by:

Compliance Certification Services Inc.

Sindian Lab. No.163-1, Jhongsheng Rd, Sindian City, Taipei County 23151, Taiwan (R.O.C.) TEL: 886-2-22170894

FAX: 886-2-22171029

Issued Date: April 18, 2011



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Revision History

Rev.	lssue Date	Revisions	Effect Page	Revised By
00	April 18, 2011	Initial Issue	ALL	Wendy Wang



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1 TEST RESULT CERTIFICATION

Product:	Advanced Mini-ITX System
Model:	xxxxxAIS-Q572xx-xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Brand:	AAEON
Applicant:	AAEON Technology Inc. 5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist., New Taipei City, Taiwan, R.O.C.
Manufacturer:	AAEON Technology Inc. 5F, No.135, Lane 235, Pao Chiao Rd, Hsin-Tien Dist., New Taipei City, Taiwan, R.O.C.
Tested:	March 22, 2011 ~ April 15, 2011

EMISSION					
Standard	Item	Result	Remarks		
FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 4	Conducted (Power Port) PASS Meet Class		Meet Class A limit		
ANSI C63.4-2009	Radiated	PASS	Meet Class A limit		

Note: 1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.

2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard	
None	

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Sam Hu Section Manager

Reviewed by:

Vesta Hsu Supervisor of report document dept.

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2 EUT DESCRIPTION

Product	Advanced Mini-ITX System			
Brand Name	AAEON			
Model	xxxxxAIS-Q572xx-xxxxxxxxxxx (Where x is 0-9,A-Z,- or blank) for marketing purpose			
Applicant	AAEON Technology Inc.			
Housing material	Metal case			
Identify Number	T110413203			
Received Date	April 13, 2011			
EUT Power Rating	100-240VAC			
AC Power During Test	120VAC / 60Hz			
OSC/Clock Frequencies	25MHz; 14.31818MHz; 32.768kHz			

Model Differences

Model Name	Differences	Tested (Checked)
RS-TFAIS-Q572-0000	Original	\boxtimes
xxxxxAIS-Q572xx-xxxxxxxxxx	1. Where x is 0-9 , A-Z , - or blank 2. For marketing purpose	

I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
1. SIO Port	2	2
2. PS/2 Keyboard Port	1	1
3. PS/2 Mouse Port	1	1
4. VGA Port	1	1
5. DVI Port	1	1
6. Audio In Port	1	1
7. Earphone Port	1	1
8. Microphone Port	1	1
9. USB Port	8	8
10. LAN Port	2	2

Note: Client consigns only one model sample to test (Model Number: RS-TFAIS-Q572-0000).



3 TEST METHODOLOGY

3.1. DECISION OF FINAL TEST MODE

The EUT was tested together with the above additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The test configuration mode is as the following:

Conduction Mode:

1 1920X1200, VF=60Hz

Radiation Mode:

```
1 192
```

1920X1200, VF=60Hz
1920X1200, VF=60Hz / 1-16.65GHz

Conduction: Mode 1 Radiation: Mode 1

3.2. EUT SYSTEM OPERATION

- 1. Windows XP boots system.
- 2. Run Emctest.exe to activate all peripherals and display "H" pattern on monitor screen.
- 3. Run Winemc.exe and choose media player to play music.
- 4. Run Winemc.exe then choose "D:/ & E:/ & F:/ & G:/ & H:/ & I:/ & J: & K:/ " to test EUT.
- 5. Press the start menu, select executive and type ping 192.168.0.2&4 -t (EUT), ping 192.168.0.1&3 -t (Server PC).

Note: Test program is self-repeating throughout the test.

4 SETUP OF EQUIPMENT UNDER TEST

4.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

EUT Devices:

No.	Equipment	Model No.	Brand Name
1	CPU (3.33GHz)	Core i5	Intel
2	Memory (2GB)	J1108BABG-DJ-E	ELPIDA
3	Power Supply	PSM275H	CWT
4	HDD (80GB)	ST380815AS	Seagate

Peripherals Devices:

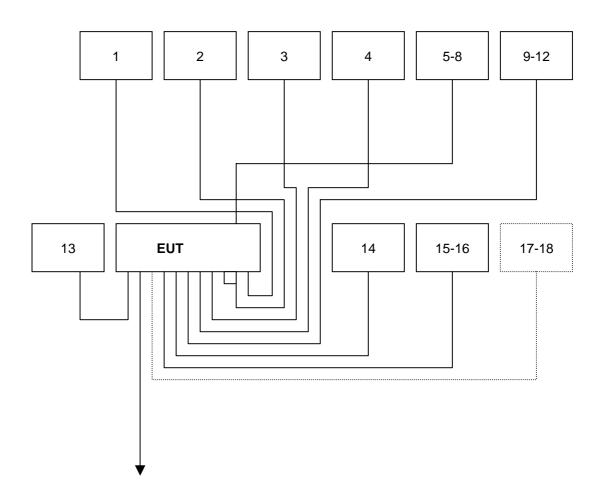
No.	Equipment	Model No.	Serial No.	FCC ID / BSMI ID	Brand Name	Data Cable	Power Cord
1	Player	RQ-L317	N/A	N/A	PANASONIC	Unshielded, 1.5m	N/A
2	Earphone / Microphone	SBZ-4	N/A	N/A	KRONE	Unshielded, 2.0m	N/A
3	PS/2 Mouse	M071KC	443029438	DOC BSMI: R41108	DELL	Shielded, 1.8m	N/A
4	PS/2 Keyboard	SK-8110	N/A	DOC BSMI: T3A002	DELL	Shielded, 1.8m	N/A
5-8	USB 2.0 HDD	ME-911	N/A	D33031	PORTABLE	Shielded, 1.8m	N/A
9-12	USB 2.0 HDD	ME-911	N/A	D33031	PORTABLE	Shielded, 1.8m	N/A
13	Monitor	202P40	BZ000403770329	FCC ID: A3KM107 BSMI: R33048	PHILIPS	Shielded, 1.8m with two cores	Unshielded, 1.8m
14	Monitor	2408WFP	N/A	N/A	DELL	Shielded, 1.8m with two cores	Unshielded, 1.8m
15-16	Modem	AL-56ERM	N/A	DOC	GALILEO	Shielded, 1.0m	Unshielded, 1.8m
17-18	Server PC	HD075AV	N/A	DOC BSMI: R33001	HP	Unshielded, 20m	Unshielded, 1.8m

Note:

1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.2. CONFIGURATION OF SYSTEM UNDER TEST



5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at CCS Taiwan Sindian Lab. at No.163-1, Jhongsheng Rd, Sindian City, Taipei County 23151, Taiwan (R.O.C.).

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4 and CISPR 16-1-5.

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan	TAF
USA	A2LA

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	Industry Canada
Norway	Nemko
Japan	VCCI
Taiwan	BSMI
USA	FCC

Copies of granted accreditation certificates are available for downloading from our web site, <u>http:///www.ccsrf.com</u>

5.3. 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	Frequency	Uncertainty
Conducted emissions 0.15MHz ~ 30MHz		± 1.29
	30MHz ~ 1000MHz	± 3.83
Radiated emissions	1000MHz ~ 18000MHz	± 1.99
Raulaleu emissions	18000MHz ~ 26000MHz	± 2.65
	26000MHz ~ 40000MHz	± 2.97

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

Consistent with industry standard (e.g. CISPR 22: 2005, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.

6 CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)
FREQUENCT (MHZ)	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

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 0.15 to 0.50 MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

6.2. TEST INSTRUMENTS

	Conducted Emission room # B							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due				
TEST RECEIVER	R&S	ESCI	100234	06/13/2011				
LISN (EUT)	FCC	FCC-LISN-50-32-2	08009	03/27/2012				
LISN	SCHWARZBECK	NSLK 8127	8127382	01/02/2012				
BNC CABLE	MIYAZAKI	5D-FB	BNC B3	08/10/2011				
Pulse Limiter	R&S	ESH3-Z2	100374	01/09/2012				
THERMO- HYGRO METER	TOP	HA-202	9303-3	01/25/2012				
Test S/W		EZ-EI	MC					

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.

6.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

Procedure of Preliminary Test

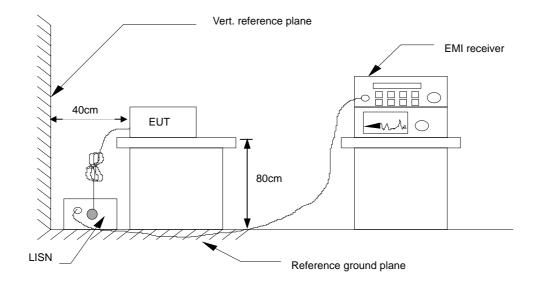
- The EUT and support equipment, if needed, were set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed by AC 120VAC/60Hz main power, through a Line Impedance Stabilization Network (LISN), which was supplied power source and was grounded to the ground plane.
- All support equipment power by from a second LISN.
- The test program of the EUT was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
- The test data of the worst-case condition(s) was recorded.



6.4. TEST SETUP



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

6.5. DATA SAMPLE

Freq.	Reading	Factor	Result	Limit	Margin	Detector	Line
(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	(P/Q/A)	(L1/L2)
x.xx	42.95	0.55	43.50	73	-29.50	Q	L1

Freq.	= Emission frequency in MHz
Reading	= Uncorrected Analyzer/Receiver reading
Factor	= Insertion loss of LISN + Cable Loss
Result	= Reading + Factor
Limit	= Limit stated in standard
Margin	= Reading in reference to limit
P	= Peak Reading
Q	= Quasi-peak Reading
А	= Average Reading
L1	= Hot side
L2	= Neutral side

Calculation Formula

Margin (dB) = Result (dBuV) – Limit (dBuV)

6.6. TEST RESULTS

Model No.	RS-TFAIS-Q572-0000	6dB Bandwidth	10 kHz
Environmental Conditions	20deg.C, 60% RH, 1010hPa	Test Mode	Mode 1
Tested by	Pipo Hou	Phase	L1
Standard	FCC CLASS A		

Conducted Emission Readings							
Frequ	lency Rang	je Investig	gated		150 kHz to	30 MHz	
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.1780	35.21	10.20	45.41	79.00	-33.59	Р	L1
0.8900	29.82	10.02	39.84	73.00	-33.16	Р	L1
2.8940	28.66	10.05	38.71	73.00	-34.29	Р	L1
4.9060	42.97	10.07	53.04	73.00	-19.96	Р	L1
15.5340	29.59	10.37	39.96	73.00	-33.04	Р	L1
26.9940	34.24	10.68	44.92	73.00	-28.08	Р	L1

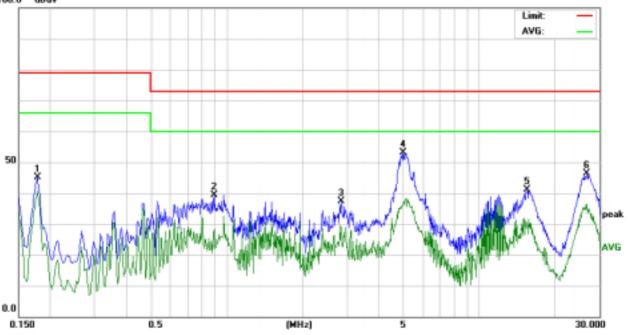
Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

2. The emission level was or more than 2dB below the Average limit, so no re-check anymore.



Model No.	RS-TFAIS-Q572-0000	6dB Bandwidth	10 kHz
Environmental Conditions	20deg.C, 60% RH, 1010hPa	Test Mode	Mode 1
Tested by	Pipo Hou	Phase	L2
Standard	FCC CLASS A		

100.0 dBy/



Conducted Emission Readings							
Frequ	iency Rang	je Investig	gated		150 kHz to	30 MHz	
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.1780	35.21	10.04	45.25	79.00	-33.75	Р	L2
0.8900	29.45	9.92	39.37	73.00	-33.63	Р	L2
2.8420	27.44	9.97	37.41	73.00	-35.59	Р	L2
5.0100	43.22	9.99	53.21	73.00	-19.79	Р	L2
15.5380	30.73	10.29	41.02	73.00	-31.98	Р	L2
26.8180	35.70	10.61	46.31	73.00	-26.69	Р	L2

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

2. The emission level was or more than 2dB below the Average limit, so no re-check anymore.

7 RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

Below 1GHz (for digital device)

FREQUENCY (MHz)	dBuV/m (At 10m)			
	Class A	Class B		
30 ~ 230	40	30		
230 ~ 1000	47	37		

Limit tables for non-digital device:

Class A Radiated Emission limit at 10m (for others)

Frequency (MHZ)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	90	39
88 - 216	150	43.5
216 – 960	210	46.4
Above 960	300	49.5

Class B Radiated Emission limit at 3m (for others)

Frequency (MHZ)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	100	40
88 - 216	150	43.5
216 – 960	200	46
Above 960	500	54

Above 1GHz(for all device)

Frequency	Class A (dBu)	V/m) (At 10m)	Class B (dBuV/m) (At 3m)			
(MHZ)	Average Peak		Average Peak			
Above 1000	49.5	69.5	54	74		

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

2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

3. The measurement above 1GHz is at close-in distances 3m,and determine the limit L2 corresponding to the close-in distance d2 by applying the following relation: L2 = L1 (d1/d2), where L1 is the specified limit in microvolts per metre (uV/m) at the distance d1 (10m), L2 is the new limit for distance d2 (3m).

So the new Class A limit above 1GHz at 3m is as following table:

Frequency	Class A (dBuV/m) (At 3m)				
(MHZ)	Average	Peak			
Above 1000	60	80			



According to FCC Part 15.33 (b), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.75	30
1.75-108	1000
108-500	2000
500-1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

7.2. TEST INSTRUMENTS

Open Area Test Site # I									
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due					
MEASURE RECEIVER	SCHAFFNER	SCR3501	338	07/05/2011					
SPECTRUM ANALYZER	ADVANTEST	R3132	120900008	No Calibration Required					
ANTENNA	SCHAFFNER	CBL 6112B	2809	10/03/2011					
AMPLIFIER	SCHAFFNER	CPA9231A	3626	10/10/2011					
CABLE	PACIFIC	8D-FB	N-TYPE #I4	01/17/2012					
THERMO- HYGRO METER	TECPEL	DTM-303	090639	05/23/2011					
Test S/W		EZ-E	EMC						
		Above 1GHz Used							
MEASURE RECEIVER	SCHAFFNER	SCR3501	342	06/28/2011					
ANTENNA (30-1000MHz)	SUNOL	JB1	A022310	10/04/2011					
PRE- AMPLIFIER	EMCI	EMC330	980022	01/20/2012					
CABLE (30-1000MHz)	HUBER +SUHNER	SUCOFLEX 102	33105/2	01/20/2012					
CABLE (30-1000MHz)	EMCI	EMCI-C-14	CH-D#13	01/20/2012					
ATTENUATOR	MCL	BW-S6W5	CH-D#14	01/20/2012					
LOOP ANTENNA	EMCO	6502	8905-2356	06/10/2013					
SPECTRUM ANALYZER (9kHz-30GHz)	R&S	FSP 30	100112	12/07/2011					
SPECTRUM ANALYZER (9kHz-40GHz)	Agilent	E4446A	MY48250064	12/29/2011					
ANTENNA (1-18GHz)	EMCO	3115	00022256	01/09/2012					
AMPLIFIER (1-18GHz)	HP	8449B	3008A01266	12/19/2011					
CABLE (1-40GHz)	HUBER +SUHNER	SUCOFLEX 102	33106/2	12/19/2011					
CABLE (18-40GHz)	HUBER +SUHNER	SUCOFLEX 102	33633/2	12/19/2011					
CABLE (1-26.5GHz)	HUBER +SUHNER	SUCOFLEX 104PEA	33959/4PEA	12/19/2011					
CABLE (1-26.5GHz)	HUBER +SUHNER	SUCOFLEX 104PEA	33960/4PEA	12/19/2011					
THERMO- HYGRO METER	TECPEL	DTM-303 NO.3 11		11/18/2011					
Test S/W		EZ-E	MC						

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.

7.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

Procedure of Preliminary Test

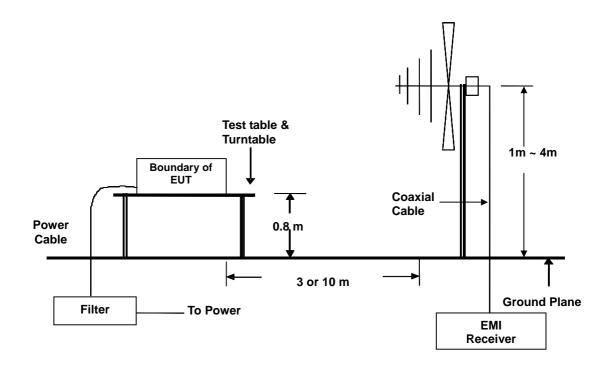
- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC 120VAC/60Hz power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- The antenna was placed at 3 or 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 40GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.



Procedure of Final Test

- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 40GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recording at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. Below 1GHz the Q.P. reading and above 1GHz the Peak and Average reading are presented.
- The test data of the worst-case condition(s) was recorded.

7.4. TEST SETUP



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

7.5. DATA SAMPLE

Below 1GHz

Freq.	Reading	Factor	Result	Limit	Margin	Detector	Pol.
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(P/Q)	(H/V)
x.xx	14.0	12.2	26.2	40	-13.8	Q	

Above 1GHz

Freq.	Reading	Factor	Result	Limit	Margin	Detector	Pol.
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(P/A)	(H/V)
x.xx	42.95	0.55	43.50	60	-16.50	А	

Freq. = Emission frequency in MHz

Reading = Uncorrected Analyzer/Receiver reading

- Factor = Antenna Factor + Cable Loss Amplifier Gain
- Result = Reading + Factor
- Limit = Limit stated in standard
- Margin = Reading in reference to limit
- P = Peak Reading
- Q = Quasi-peak Reading
- A = Average Reading
- H = Antenna Polarization: Horizontal

V = Antenna Polarization: Vertical

Calculation Formula

Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

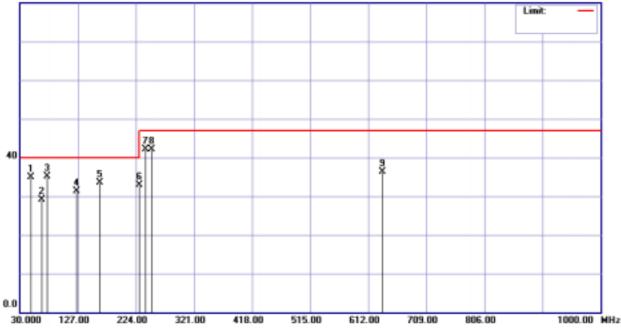


7.6. TEST RESULTS

Below 1GHz

Model No.	RS-TFAIS-Q572-0000	Test Mode	Mode 1				
Environmental Conditions	22deg.C, 55% RH, 1010hPa	6dB Bandwidth	120 kHz				
Antenna Pole	Vertical	Antenna Distance	10m				
Detector Function	Quasi-peak.	Quasi-peak. Tested by Bill Huang					
Standard	FCC CLASS A W/ EN 55022 CLASS A LIMIT						

80.0 dBuV/m



Radiated Emission Readings										
Frequency Range Investigated						30 N	/IHz to 10	00 MHz a	t 10m	
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)
49.1800	53.20	-18.36	34.84	40.00		-5.16	100	323	Q	V
67.1200	51.37	-22.20	29.17	40.00		-10.83	100	165	Q	V
76.4200	56.60	-21.50	35.10	40.	.00	-4.90	100	221	Q	V
125.0600	47.41	-16.07	31.34	40.	.00	-8.66	100	73	Q	V
164.0800	51.46	-17.95	33.51	40.	.00	-6.49	100	149	Q	V
229.6900	50.10	-17.12	32.98	40.	.00	-7.02	100	51	Q	V
239.9800	58.10	-15.95	42.15	47.00		-4.85	100	236	Q	V
250.2700	56.77	-14.70	42.07	47.00		-4.93	100	302	Q	V
635.7000	42.84	-6.58	36.26	47.	.00	-10.74	400	333	Q	V

Note: 1. 30MHz to 1000MHz test is Applicable CISPR 22 / EN 55022 standard.

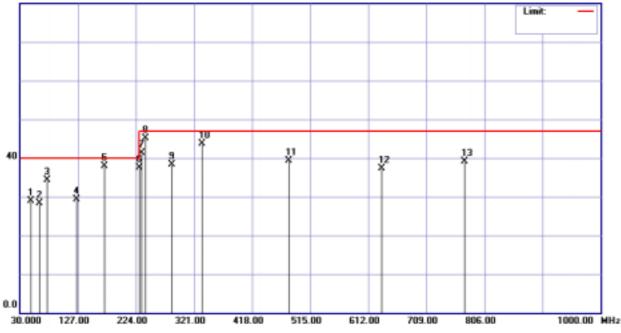
2. The other emission levels were very low against the limit.

3. P= Peak Reading; Q= Quasi-peak Reading.



Model No.	RS-TFAIS-Q572-0000 Test Mode		Mode 1					
Environmental Conditions	22deg.C, 55% RH, 1010hPa	6dB Bandwidth	120 kHz					
Antenna Pole	Horizontal	Antenna Distance	10m					
Detector Function	Quasi-peak.	Tested by	Bill Huang					
Standard	FCC CLASS A W/ EN 55022 C	CC CLASS A W/ EN 55022 CLASS A LIMIT						

80.0 dBuV/m



Radiated Emission Readings										
Fr	equency R	ange Inves	tigated			30 N	/Hz to 10	00 MHz a	t 10m	
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)		Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)
49.1900	47.34	-18.36	28.98	40.	00	-11.02	400	221	Q	Н
63.2900	50.62	-22.26	28.36	40.	00	-11.64	400	73	Q	Н
75.8000	55.80	-21.56	34.24	40.00		-5.76	400	139	Q	Н
125.0500	45.30	-16.07	29.23	40.	00	-10.77	400	301	Q	Н
172.2100	56.20	-18.26	37.94	40.	00	-2.06	400	221	Q	Н
229.6900	54.70	-17.12	37.58	40.	00	-2.42	400	73	Q	Н
234.3400	57.80	-16.59	41.21	47.	00	-5.79	400	154	Q	Н
239.9930	61.10	-15.95	45.15	47.	00	-1.85	400	32	Q	Н
283.9600	52.46	-14.20	38.26	47.	00	-8.74	400	221	Q	Н
334.6000	56.62	-12.95	43.67	47.	00	-3.33	400	79	Q	Н
480.0000	48.51	-9.13	39.38	47.00		-7.62	100	221	Q	Н
635.1000	43.80	-6.59	37.21	47.	00	-9.79	100	72	Q	Н
772.5300	44.30	-5.25	39.05	47.	00	-7.95	100	302	Q	Н

Note: 1. 30MHz to 1000MHz test is Applicable CISPR 22 / EN 55022 standard.

2. The other emission levels were very low against the limit.

3. P= Peak Reading; Q= Quasi-peak Reading.

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Above 1GHz

Model No.	RS-TFAIS-Q572-0000	Test Mode	Mode 1
Environmental Conditions	26deg.C, 60% RH, 1008hPa	6dB Bandwidth	1 MHz
Antenna Pole	Vertical / Horizontal	Antenna Distance	3m
Highest frequency generated or used	3330MHz	Upper frequency	16650MHz
Detector Function	Peak or average.	Tested by	David Cheng
Standard	FCC CLASS A		

Radiated Emission Readings											
Frequency Range Investigated				Above 1GHz at 3m							
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/A)	Pol. (H/V)				
1355.000	58.02	-8.45	49.57	80.00	-30.43	Р	V				
1595.000	53.09	-7.09	46.00	80.00	-34.00	Р	V				
1745.000	55.41	-6.15	49.26	80.00	-30.74	Р	V				
1850.000	56.99	-5.50	51.49	80.00	-28.51	Р	V				
2085.000	54.66	-4.26	50.40	80.00	-29.60	Р	V				
2450.000	54.48	-3.03	51.45	80.00	-28.55	Р	V				

Radiated Emission Readings											
Frequency Range Investigated				Above 1GHz at 3m							
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/A)	Pol. (H/V)				
1470.000	56.09	-7.85	48.24	80.00	-31.76	Р	Н				
1610.000	60.30	-7.00	53.30	80.00	-26.70	Р	Н				
1965.000	55.49	-4.78	50.71	80.00	-29.29	Р	Н				
2150.000	56.33	-4.05	52.28	80.00	-27.72	Р	Н				
2365.000	54.57	-3.32	51.25	80.00	-28.75	Р	Н				
2635.000	54.02	-2.21	51.81	80.00	-28.19	Р	Н				

Note: 1. The other emission levels were very low against the limit.

2. P= Peak Reading; A= Average Reading.

8 PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST









RADIATED EMISSION TEST