FCC 47 CFR PART 15 SUBPART B TEST REPORT

Report No.: T110906210-F

for

Infotainment Touch Display

MODEL: xxxxxACD-518D-HTT-xxxxxxxx (Where x is 0-9, A-Z, -or blank); xxxxxACD-515D-HTT-xxxxxxxx (Where x is 0-9, A-Z, -or blank)

Test Report Number: T110906210-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.

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Issued Date: September 19, 2011







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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	September 19, 2011	Initial Issue	ALL	Joy Hsiao

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1 TEST RESULT CERTIFICATION

Product: Infotainment Touch Display

Model: xxxxxACD-518D-HTT-xxxxxxxx (Where x is 0-9, A-Z, -or blank);

xxxxxACD-515D-HTT-xxxxxxxxx (Where x is 0-9, A-Z, or blank)

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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: September 02, 2011 ~ September 14, 2011

EMISSION					
Standard	Item	Result	Remarks		
FCC 47 CFR Part 15 Subpart B, ICES-003 Issue 4	Conducted (Power Port)	PASS	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:	Reviewed by:
Santla	Vesta Hsv.
Sam Hu Section Manager	Vesta Hsu Supervisor of report document dept.

2 EUT DESCRIPTION

Product	Infotainment Touch Display
Brand Name	AAEON
Model	xxxxxACD-518D-HTT-xxxxxxxxx (Where x is 0-9, A-Z, -or blank); xxxxxACD-515D-HTT-xxxxxxxxx (Where x is 0-9, A-Z, -or blank)
Applicant	AAEON Technology Inc.
Housing material	Plastic
Identify Number	T110906210
Received Date	September 06, 2011
EUT Power Rating	12VDC from AC Adaptor
AC Power During Test	120VAC / 60Hz to AC Adaptor
AC Adaptor Manufacturer	FSP
AC Adaptor Model	FSP060-DBAB1
AC Adaptor Power Rating	I/P: 100-240VA~, 1.5A, 50-60Hz O/P: 12VDC 5.0A MAX
DC Power Cable Type	Unshielded, 1.8m (Non-detachable, with a core) to AC Adaptor

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Model Differences

Model Name	Differences	Tested (Checked)
TF-ACD-518D-HTT-A1-1010	18.5" LCD Panel	\boxtimes
xxxxxACD-518D-HTT-xxxxxxxx	 Where x is 0-9 , A-Z , -or blank For marketing purchases only 	
TF-ACD-515D-HTT-A1-1010	15.6" LCD Panel	\boxtimes
xxxxxACD-515D-HTT-xxxxxxxx	 Where x is 0-9 , A-Z , -or blank For marketing purchases only 	

I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
1. VGA Port	1	1
2. DVI Port	1	1
3. Audio In Port	1	1
4. USB Port	3	3
5. Mini USB Port	1	1

Note: None.

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.

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The test configuration/ modes are as the following:

Modes:

No.	Mode	Operate state		
1	TF-ACD-518D-HTT-A1-1010	1366X768, VF=60Hz / DVI MODE		
2	11-ACD-316D-1111-A1-1010	1366X768, VF=60Hz / D-SUB MODE		
3	TF-ACD-515D-HTT-A1-1010	1366X768, VF=60Hz / DVI MODE		
4	11-400-3130-1111-41-1010	1366X768, VF=60Hz / D-SUB MODE		

Conduction: Mode 1 Radiation: Mode 3

3.2. EUT SYSTEM OPERATION

- 1. Windows 7 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 select "E:/ & F:/ & G:/" to test USB 2.0 port.

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.

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EUT Devices:

Model No.: TF-ACD-518D-HTT-A1-1010

No.	Equipment	Model No.	Brand Name	
1	AC Adapter	FSP060-DBAB1	FSP	
2	LCD Panel (18.5")	G185XW01	AUO	
3	AD Board	S2523BVL	RGBTECH	
4	Inverter Board	YIVLAA0730D21	SAMPO	
5	USB Board	PER-T194	AAEON	
6	Touch Board	MT9C15603EV01	MASTOUCH	
7	Mini USB contact touch Board	PER-T219	AAEON	

Model No.: TF-ACD-515D-HTT-A1-1010

No.	Equipment	Model No.	Brand Name	
1	AC Adapter	FSP060-DBAB1	FSP	
2	LCD Panel (15.6")	G156XW01	AUO	
3	AD Board	S2523BVL	RGBTECH	
4	Inverter Board	YIVLAA0730D21	SAMPO	
5	USB Board	PER-T194	AAEON	
6	Touch Board	MT9C15603EV01	MASTOUCH	
7	Mini USB contact touch Board	PER-T219	AAEON	

Peripherals Devices:

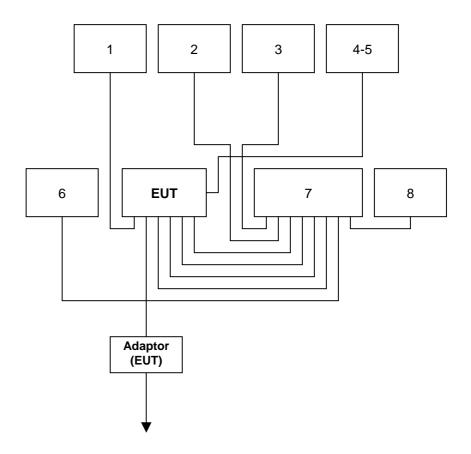
No.	Equipment	Model No.	Serial No.	FCC ID / BSMI ID	Brand Name	Data Cable	Power Cord
1	USB 2.0 HDD	HD-234	N/A	N/A	A-Tec	Shielded, 1.8m with a core	N/A
2	PS/2 Mouse	M-SBF96	FATSQ0C5BYJQKZ	DOC BSMI: R41126	hp	Shielded, 1.8m	N/A
3	PS/2 Keyboard	SK-2880	BAUEL0HCPY76G7	DOC BSMI: T3A002	hp	Shielded, 1.8m	N/A
4-5	USB 2.0 HDD	HD-234	N/A	N/A	A-Tec	Shielded, 1.8m with a core	N/A
6	Printer	Deskjet D2360	TH73C1492F	DOC BSMI: R33001	HP	Shielded, 1.8m	Unshielded, 1.8m
7	Host PC	DCTA	8X36VBX	DOC BSMI: R33002	DELL	DVI: Shielded, 1.8m with two cores D-SUB: Shielded, 1.8m with two cores Audio In: Unshielded, 1.8m Mini USB: Shielded, 1.8m	Unshielded, 1.8m
8	Modem	AL-56ERM	N/A	DOC	GALILEO	Shielded, 1.0m	Unshielded, 1.8m

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Note:

- All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
 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 CCSrf Taiwan Sindian Lab. at No.163-1, Jhongsheng Rd, Sindian City, Taipei County 23151, Taiwan (R.O.C.).

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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, http:///www.ccsrf.com

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
Radiated emissions	30MHz ~ 1000MHz	± 3.83

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)		(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

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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	06/13/2012					
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	08/07/2012					
Pulse Limiter	R&S	ESH3-Z2	100374	01/09/2012					
THERMO- HYGRO METER	WISEWIND	201A	1006	05/23/2012					
Test S/W	EZ-EMC								

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)

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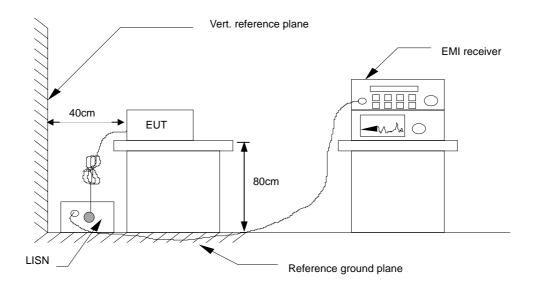
Procedure of Preliminary Test

- 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



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 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
A = Average Reading

L1 = Hot side L2 = Neutral side

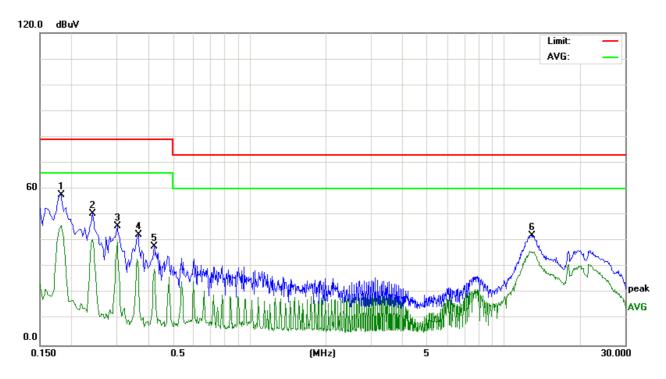
Calculation Formula

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

6.6. TEST RESULTS

Model No.	TF-ACD-518D-HTT-A1-1010	6dB Bandwidth	10 kHz
Environmental Conditions	24°C, 60% RH, 1008mbar	Test Mode	Mode 1
Tested by	Frank Liao	Phase	L1
Standard	FCC CLASS A		

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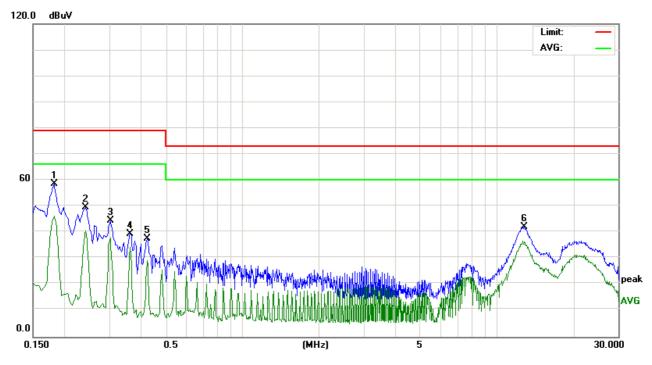
	Conducted Emission Readings						
Frequ	uency Rang	je Investiç	gated		150 kHz to	30 MHz	
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.1819	47.53	10.19	57.72	79.00	-21.28	Р	L1
0.2420	40.38	10.11	50.49	79.00	-28.51	Р	L1
0.3020	35.63	10.08	45.71	79.00	-33.29	Р	L1
0.3660	32.54	10.03	42.57	79.00	-36.43	Р	L1
0.4220	27.88	10.00	37.88	79.00	-41.12	Р	L1
12.8900	32.03	10.22	42.25	73.00	-30.75	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.

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Model No.	TF-ACD-518D-HTT-A1-1010	6dB Bandwidth	10 kHz
Environmental Conditions	24°C, 60% RH, 1008mbar	Test Mode	Mode 1
Tested by	Frank Liao	Phase	L2
Standard	FCC CLASS A		



	Conducted Emission Readings						
Frequ	uency Rang	je Investiç	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)
0.1819	48.56	10.19	58.75	79.00	-20.25	Р	L2
0.2420	39.50	10.11	49.61	79.00	-29.39	Р	L2
0.3020	34.42	10.08	44.50	79.00	-34.50	Р	L2
0.3620	29.36	10.03	39.39	79.00	-39.61	Р	L2
0.4220	27.66	10.00	37.66	79.00	-41.34	Р	L2
12.8260	31.91	10.22	42.13	73.00	-30.87	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)
TREGOLINGT (MITZ)	Class A	Class B
30 ~ 230	40	30
230 ~ 1000	47	37

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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:

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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	07/05/2012							
SPECTRUM ANALYZER ADVANTEST		R3132	120900008	No Calibration Required							
ANTENNA	SUNOL	JB1	A100209-3	10/04/2011							
AMPLIFIER	SCHAFFNER	CPA9231A	3626	10/10/2011							
CABLE	PACIFIC	8D-FB	N-TYPE #I4	01/17/2012							
THERMO- HYGRO METER	TECPEL	DTM-303	090639	05/16/2012							
Test S/W	EZ-EMC										

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.

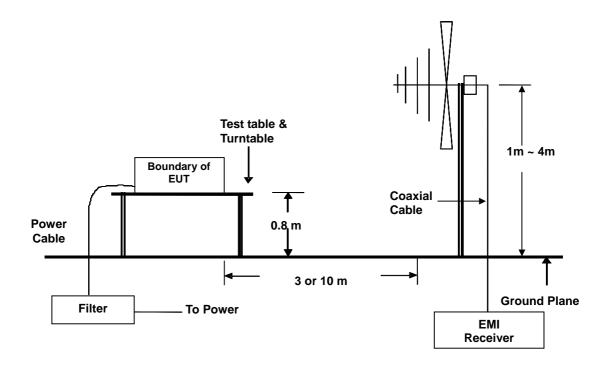
Procedure of Final Test

 EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.

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- 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	

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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

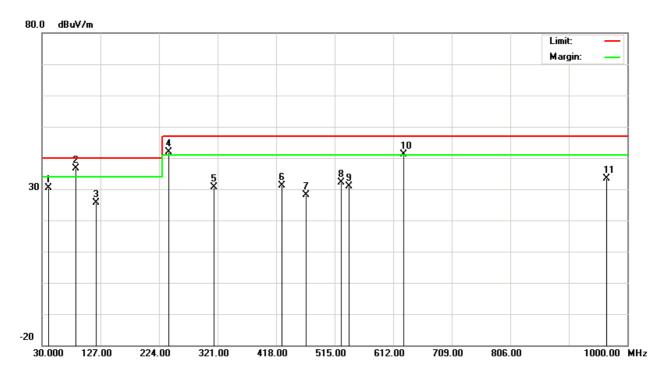
Margin (dB) = Result (dBuV/m) - Limit (dBuV/m)

7.6. TEST RESULTS

Below 1GHz

Model No.	TF-ACD-515D-HTT-A1-1010	Test Mode	Mode 3			
Environmental Conditions	126°C 60% RH 1005mnar 1		120 kHz			
Antenna Pole	Vertical	Antenna Distance	10m			
Detector Function	Quasi-peak.	Tested by	Pipo Hou			
Standard	FCC CLASS A W/ EN 55022 CLASS A LIMIT					

Report No.: T110906210-F



	Radiated Emission Readings										
Fr	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)	
40.4400	45.20	-14.77	30.43	40.	00	-9.57	100	122	Q	٧	
85.9200	57.10	-20.42	36.68	40.00		-3.32	100	35	Q	٧	
120.0040	39.80	-14.11	25.69	40.	00	-14.31	100	169	Q	٧	
240.0140	57.80	-15.80	42.00	47.	00	-5.00	100	213	Q	٧	
315.8200	44.10	-13.41	30.69	47.	00	-16.31	100	222	Q	٧	
427.1700	41.50	-10.28	31.22	47.	00	-15.78	400	73	Q	٧	
467.9000	37.20	-9.13	28.07	47.	00	-18.93	400	145	Q	٧	
526.4800	40.20	-8.13	32.07	47.	00	-14.93	400	133	Q	٧	
538.3500	38.90	-7.97	30.93	47.	00	-16.07	400	211	Q	٧	
629.9100	47.60	-6.45	41.15	47.	00	-5.85	400	39	Q	٧	
965.2100	35.40	-2.00	33.40	47.	00	-13.60	400	217	Q	٧	

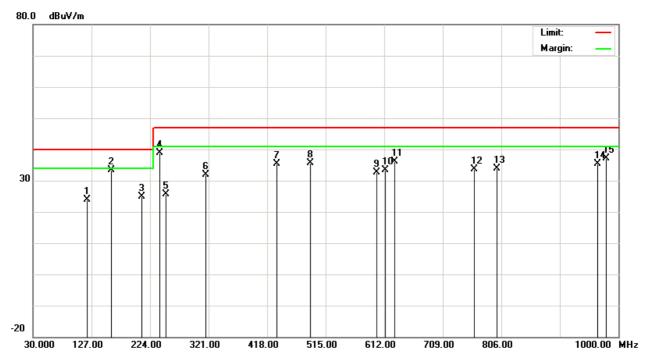
Note: 1. 30MHz to 1000MHz test is Applicable CISPR 22 / EN 55022 standard.

- 2. The other emission levels were very low against the limit.
- 3. P= Peak Reading; Q= Quasi-peak Reading.

Compliance Certification Services Inc.

Model No.	TF-ACD-515D-HTT-A1-1010	Test Mode	Mode 3			
Environmental Conditions	26°C, 60% RH, 1005mbar	6dB Bandwidth	120 kHz			
Antenna Pole	Horizontal	Antenna Distance	10m			
Detector Function	Quasi-peak.	Tested by	Pipo Hou			
Standard	FCC CLASS A W/ EN 55022 CLASS A LIMIT					

Report No.: T110906210-F



	Radiated Emission Readings									
Fr	Frequency Range Investigated					30 N	/IHz to 10	00 MHz a	t 10m	
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Lir (dBu		Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)
120.0000	38.00	-14.11	23.89	40.	.00	-16.11	400	133	Q	Н
160.0100	49.30	-15.84	33.46	40.	.00	-6.54	400	211	Q	Н
210.0000	40.70	-15.93	24.77	40.	.00	-15.23	400	75	Q	Н
240.0100	54.80	-15.80	39.00	47.	.00	-8.00	400	169	Q	Н
250.0100	41.00	-15.48	25.52	47.	.00	-21.48	400	211	Q	Н
316.1700	45.40	-13.41	31.99	47.	.00	-15.01	400	75	Q	Н
433.9200	45.40	-10.05	35.35	47.	.00	-11.65	100	333	Q	Н
489.9300	44.20	-8.69	35.51	47.	.00	-11.49	100	149	Q	Н
600.1200	39.80	-7.22	32.58	47.	.00	-14.42	100	211	Q	Н
614.2300	40.20	-6.85	33.35	47.	.00	-13.65	100	73	Q	Н
629.9500	42.50	-6.45	36.05	47.	.00	-10.95	100	214	Q	Н
761.8100	38.10	-4.36	33.74	47.	.00	-13.26	100	35	Q	Н
798.5500	37.70	-3.81	33.89	47.	.00	-13.11	100	222	Q	Н
965.2200	37.50	-2.00	35.50	47.	.00	-11.50	100	213	Q	Н
979.9500	38.70	-1.56	37.14	47.	.00	-9.86	100	52	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.

Above 1GHz

Model No.	N/A	Test Mode	N/A
Environmental Conditions	N/A	6dB Bandwidth	N/A
Antenna Pole	N/A	Antenna Distance	N/A
Highest frequency generated or used	12MHz	Upper frequency	See note
Detector Function	N/A	Tested by	N/A

Report No.: T110906210-F

Note: No applicable, when the highest frequency of the internal sources of the EUT is less than 108MHz, the measurement shall only be made up to 1 GHz.

8 PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST





RADIATED EMISSION TEST

