



FCC EMC Test Report

Report No.: ReportId
Applicant: APLEX TECHNOLOGY INC.
Address of Applicant: 15F-1, No.186, JIAN YI ROAD, ZHONGHE DIST., NEW TAIPEI CITY, 235 TAIWAN.
Equipment Under Test (EUT)
Product Name: Tablet
Model No.: ART-610, APC-38247A
Trade Mark: N/A
FCC ID: 2BH8A-ART610
Applicable Standards: FCC CFR Title 47 Part 15B
Date of Sample Receipt: 20 Jul., 2022
Date of Test: 21 Jul., to 24 Aug., 2022
Date of report Issued: 07 Aug., 2024
Test Result: PASS

Project by: _____

Date: _____

07 Aug., 2024

Reviewed by: _____

STAMP MARK

Date: _____

07 Aug., 2024

Approved by: _____

Approve

Date: _____

07 Aug., 2024

Manager

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	07 Aug., 2024	Original

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3 General Information

3.1 Client Information

Applicant:	APLEX TECHNOLOGY INC.
Address:	15F-1, No.186, JIAN YI ROAD, ZHONGHE DIST., NEW TAIPEI CITY, 235 TAIWAN.
Manufacturer:	APLEX TECHNOLOGY INC.
Address:	15F, No.150, JIAN YI ROAD, ZHONGHE DIST., NEW TAIPEI CITY, 235 TAIWAN.
Factory:	APLEX TECHNOLOGY INC.
Address:	15F, No.150, JIAN YI ROAD, ZHONGHE DIST., NEW TAIPEI CITY, 235 TAIWAN.

3.2 General Description of E.U.T.

Product Name:	Tablet
Model No.:	ART-610, APC-38247A
Power Supply:	Rechargeable Li-Polymer Battery DC3.85V, 20000mAh
AC Adapter:	Model: HJ-PD33W-US Input: AC100-240V, 50/60Hz, 0.8A Output: DC 5.0V \pm 3.0A, 9.0V \pm 3.0V, 12.0V \pm 2.75A
Remark:	Model No.: ART-610, APC-38247A were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Test Mode

Please refer to report JYTSZ-R01-2300076, FCC ID: 2ANMU-RT6SPU.

3.4 Description of Test Auxiliary Equipment

Please refer to report JYTSZ-R01-2300076, FCC ID: 2ANMU-RT6SPU.

3.5 Description of Cable Used

Please refer to report JYTSZ-R01-2300076, FCC ID: 2ANMU-RT6SPU.

3.6 Measurement Uncertainty

Please refer to report JYTSZ-R01-2300076, FCC ID: 2ANMU-RT6SPU.

3.7 Additions to, Deviations, or Exclusions from the Method

No

3.8 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

● **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

3.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

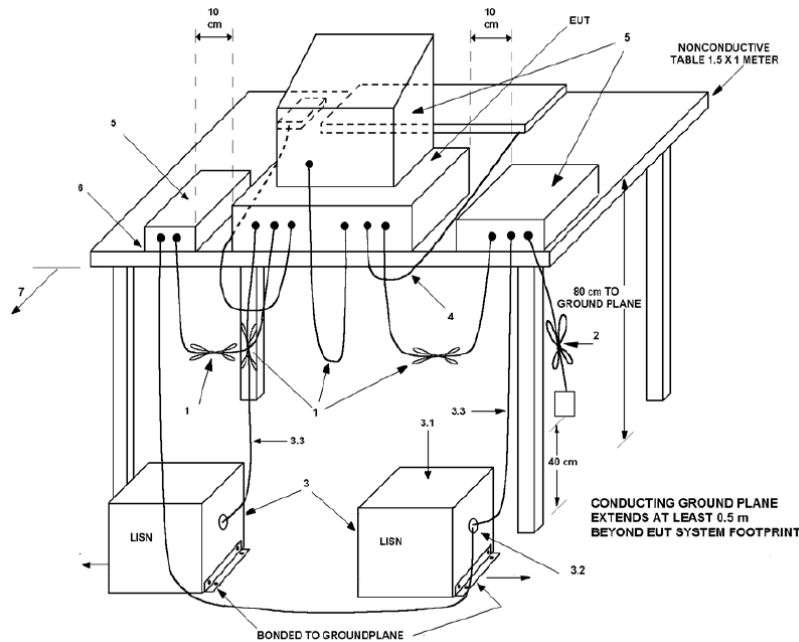
3.10 Test Instruments List

Please refer to report JYTSZ-R01-2300076, FCC ID: 2ANMU-RT6SPU.

4 Measurement Setup and Procedure

4.1 Test Setup

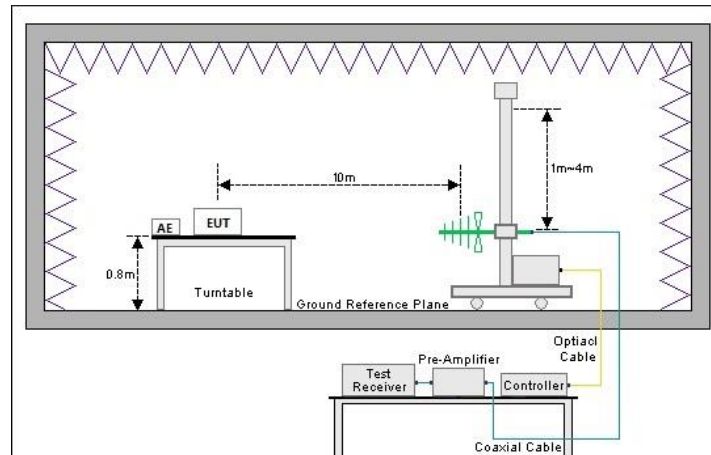
1) Conducted emission measurement:

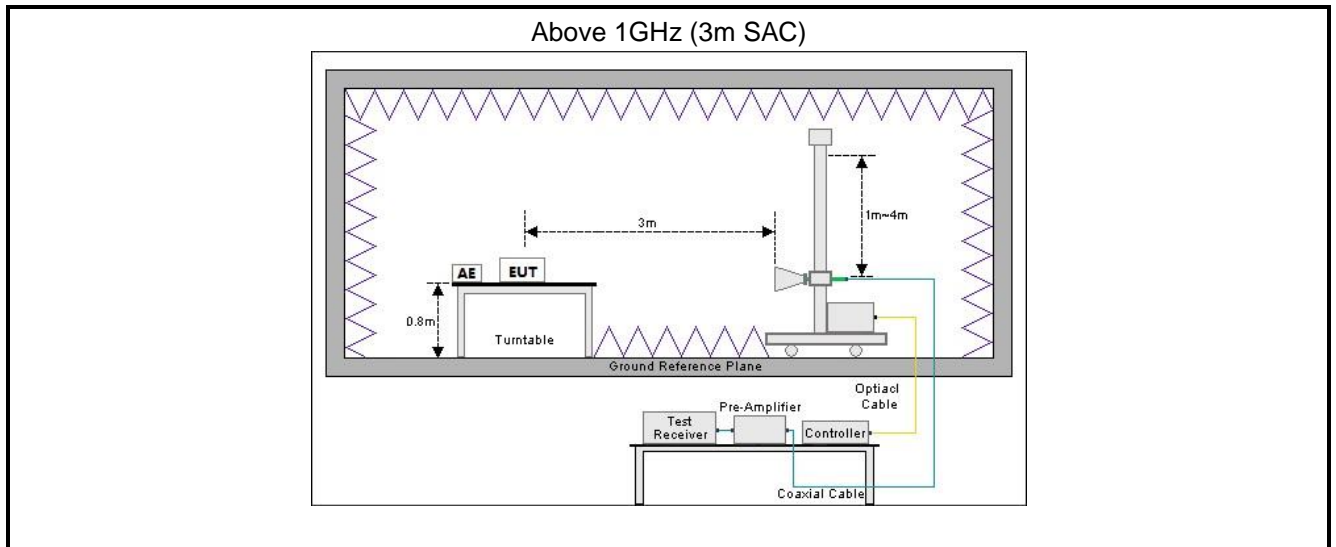


Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

Below 1GHz (10m SAC)





4.2 Test Procedure

Test method	Test step
Conducted emission	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement.
Radiated emission	<p>For below 1GHz:</p> <ol style="list-style-type: none"> 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 10 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 10 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. <p>For above 1GHz:</p> <ol style="list-style-type: none"> 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

5 Test Results

5.1 Summary

5.1.1 Clause and data summary

This report is revised according to FCC ID: 2ANMU-RT6SPU, report No.: JYTSZ-R01-2300076 issued by JianYan Testing Group Shenzhen Co., Ltd, follow the Change ID allow change principle. Differences: Update addresses of applicant and applicant, and update addresses of manufacturer and manufacturer. Update model, FCC ID. Remove the logo and add the factory and factory address. Update product back photos, so no need to retest.

Test items	Standard clause	Test data	Result
Conducted Emission	Part 15.107	Please refer to report JYTSZ-R01-2300076, FCC ID: 2ANMU-RT6SPU.	Please refer to report JYTSZ-R01-2300076, FCC ID: 2ANMU-RT6SPU.
Radiated Emission	Part 15.109	Please refer to report JYTSZ-R01-2300076, FCC ID: 2ANMU-RT6SPU.	Please refer to report JYTSZ-R01-2300076, FCC ID: 2ANMU-RT6SPU.
Remark: 1. Please refer to report JYTSZ-R01-2300076, FCC ID: 2ANMU-RT6SPU issue by JianYan Testing Group Shenzhen Co., Ltd.			
Test Method:	ANSI C63.4:2014		

5.1.2 Test Limit

Test items	Limit																													
Conducted Emission	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Class A Limit (dBμV)</th><th colspan="2">Class B Limit (dBμV)</th></tr><tr><th>Quasi-Peak</th><th>Average</th><th>Quasi-Peak</th><th>Average</th></tr><tr><td>0.15 – 0.5</td><td>79</td><td>66</td><td>66 to 56 <small>Note 1</small></td><td>56 to 46 <small>Note 1</small></td></tr><tr><td>0.5 – 5</td><td>73</td><td>60</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>73</td><td>60</td><td>60</td><td>50</td></tr></table>	Frequency (MHz)	Class A Limit (dBμV)		Class B Limit (dBμV)		Quasi-Peak	Average	Quasi-Peak	Average	0.15 – 0.5	79	66	66 to 56 <small>Note 1</small>	56 to 46 <small>Note 1</small>	0.5 – 5	73	60	56	46	5 – 30	73	60	60	50					
	Frequency (MHz)		Class A Limit (dBμV)		Class B Limit (dBμV)																									
		Quasi-Peak	Average	Quasi-Peak	Average																									
	0.15 – 0.5	79	66	66 to 56 <small>Note 1</small>	56 to 46 <small>Note 1</small>																									
	0.5 – 5	73	60	56	46																									
	5 – 30	73	60	60	50																									
Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency.																														
Note 2: The more stringent limit applies at transition frequencies.																														
Radiated Emission	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Class A Limit (dBμV/m)</th><th colspan="2">Class B Limit (dBμV/m)</th></tr><tr><th>Quasi-Peak @ 3m</th><th>Quasi-Peak @ 10m</th><th>Quasi-Peak @ 3m</th><th>Quasi-Peak @ 10m</th></tr><tr><td>30 – 88</td><td>49.0</td><td>39.0</td><td>40.0</td><td>30.0</td></tr><tr><td>88 – 216</td><td>53.5</td><td>43.5</td><td>43.5</td><td>33.5</td></tr><tr><td>216 – 960</td><td>56.0</td><td>46.0</td><td>46.0</td><td>36.0</td></tr><tr><td>960 – 1000</td><td>60.0</td><td>50.0</td><td>54.0</td><td>44.0</td></tr></table>	Frequency (MHz)	Class A Limit (dBμV/m)		Class B Limit (dBμV/m)		Quasi-Peak @ 3m	Quasi-Peak @ 10m	Quasi-Peak @ 3m	Quasi-Peak @ 10m	30 – 88	49.0	39.0	40.0	30.0	88 – 216	53.5	43.5	43.5	33.5	216 – 960	56.0	46.0	46.0	36.0	960 – 1000	60.0	50.0	54.0	44.0
	Frequency (MHz)		Class A Limit (dBμV/m)		Class B Limit (dBμV/m)																									
		Quasi-Peak @ 3m	Quasi-Peak @ 10m	Quasi-Peak @ 3m	Quasi-Peak @ 10m																									
	30 – 88	49.0	39.0	40.0	30.0																									
	88 – 216	53.5	43.5	43.5	33.5																									
	216 – 960	56.0	46.0	46.0	36.0																									
	960 – 1000	60.0	50.0	54.0	44.0																									
	Note: The more stringent limit applies at transition frequencies.																													
	Frequency	Class A Limit (dBμV/m) @ 3m		Class B Limit (dBμV/m) @ 3m																										
		Average	Peake	Average	Peake																									
Above 1 GHz	60.0	80.0	54.0	74.0																										
Note: The measurement bandwidth shall be 1 MHz or greater.																														

6 Test Setup Photo

Please refer to report JYTSZ-R01-2300076, FCC ID: 2ANMU-RT6SPU.

-----End of report-----