

FCC EMC Test Report

Applicant: Sun Cupid Technology (HK) Ltd.

Address of Applicant: 16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.

Equipment Under Test (EUT)

Product Name: Tablet

Model No.: T1005L, Tab 10 Plus, NUU Tab 10 Plus

Trade Mark: NUU

FCC ID: 2ADINT1005L

Applicable Standards: FCC CFR Title 47 Part 15B

Date of Sample Receipt: 30 Aug., 2023

Date of Test: 31 Aug., to 18 Sep., 2023

Date of report Issued: 20 Sep., 2023

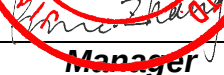
Test Result: PASS

Tested by:
Test Engineer**Date:**

20 Sep., 2023

Reviewed by:
Project Engineer**Date:**

20 Sep., 2023

Approved by:
Manager**Date:**

20 Sep., 2023

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	20 Sep., 2023	Original

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3 General Information

3.1 Client Information

Applicant:	Sun Cupid Technology (HK) Ltd.
Address:	16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer/Factory:	Suncupid (ShenZhen) Electronic Ltd
Address:	Baolong Industrial City, Longgang District, Shenzhen Hi-Tech Road, Building 1, A 7, China.

3.2 General Description of E.U.T.

Product Name:	Tablet
Model No.:	T1005L, Tab 10 Plus, NUU Tab 10 Plus
Power Supply:	Rechargeable Li-ion Polymer Battery DC3.8V, 4950mAh
AC Adapter:	Model: HJ-0502000-US Input: AC100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 2.0A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Remark:	T1005L, Tab 10 Plus, NUU Tab 10 Plus were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.

3.3 Test Mode

Operating Mode	Detail Description
Charging+Recording mode	Keep the EUT in Charging+Recording mode(Worst case)
Charging+Playing mode	Keep the EUT in Charging+Playing mode
PC mode	Keep the EUT in Downloading mode
FM mode	Keep the EUT in FM receiver mode
GPS mode	Keep the EUT in GPS receiver mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

3.4 Description of Test Auxiliary Equipment

Manufacturer	Description	Model	S/N	FCC ID/DoC
Lenovo	Laptop	ThinkPad T14 Gen 1	SL10Z47277	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC

3.5 Description of Cable Used

Cable Type	Description	Length	From	To
Detached USB Cable	Shielding	1m	EUT	PC/Adapter

3.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	3.57 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	3.14 dB
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	4.6 dB
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	5.8 dB
Radiated Emission (1GHz ~ 6GHz) (3m SAC)	4.5 dB
Radiated Emission (6GHz ~ 18GHz) (3m SAC)	4.7 dB
Radiated Emission (30MHz ~ 200MHz) (10m SAC)	4.3 dB
Radiated Emission (30MHz ~ 1000MHz) (10m SAC)	4.3 dB

Note: All the measurement uncertainty value were shown with a coverage $k=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

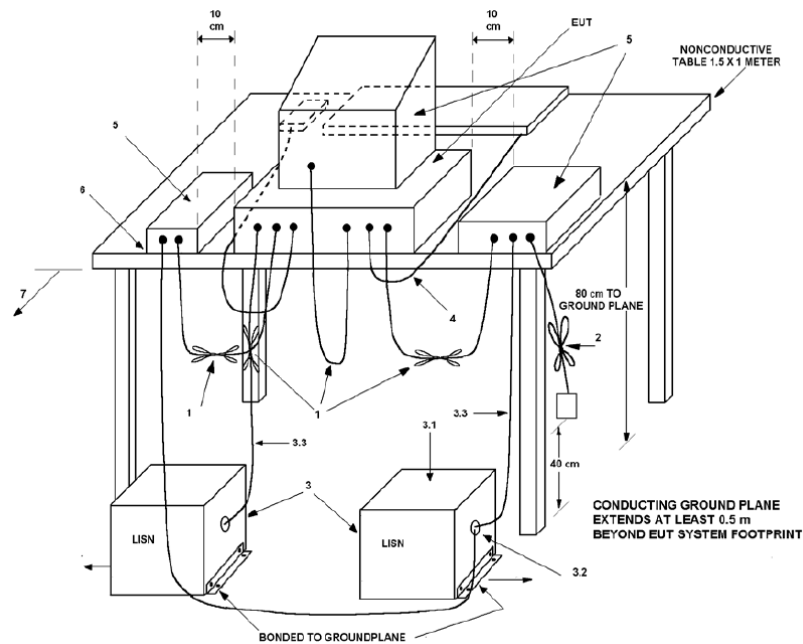
Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	02-09-2023	02-08-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	02-09-2023	02-08-2024
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	01-10-2023	01-09-2024
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	01-10-2023	01-09-2024
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	01-11-2023	01-10-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-10-2023	01-09-2024
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-18-2023	01-17-2024
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-18-2023	01-17-2024
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESR3	WXJ003-2	07-05-2023	07-04-2024
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	01-10-2023	01-09-2024
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	01-11-2023	01-10-2024
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	01-18-2023	01-17-2024
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	Version: 6.110919b		

4 Measurement Setup and Procedure

4.1 Test Setup

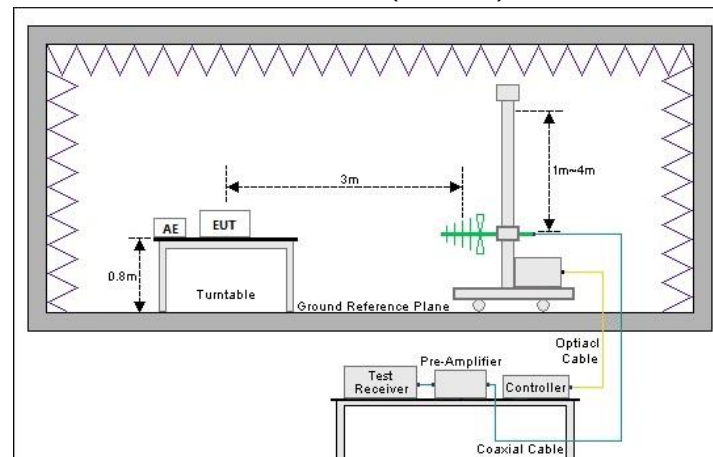
1) Conducted emission measurement:

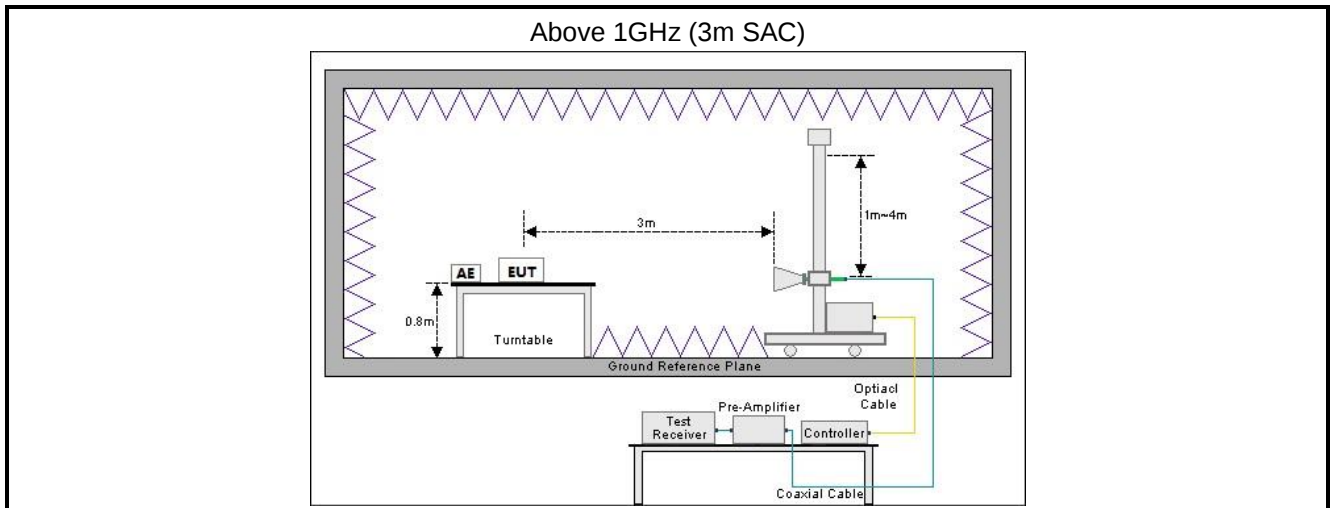


Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

Below 1GHz (3m SAC)



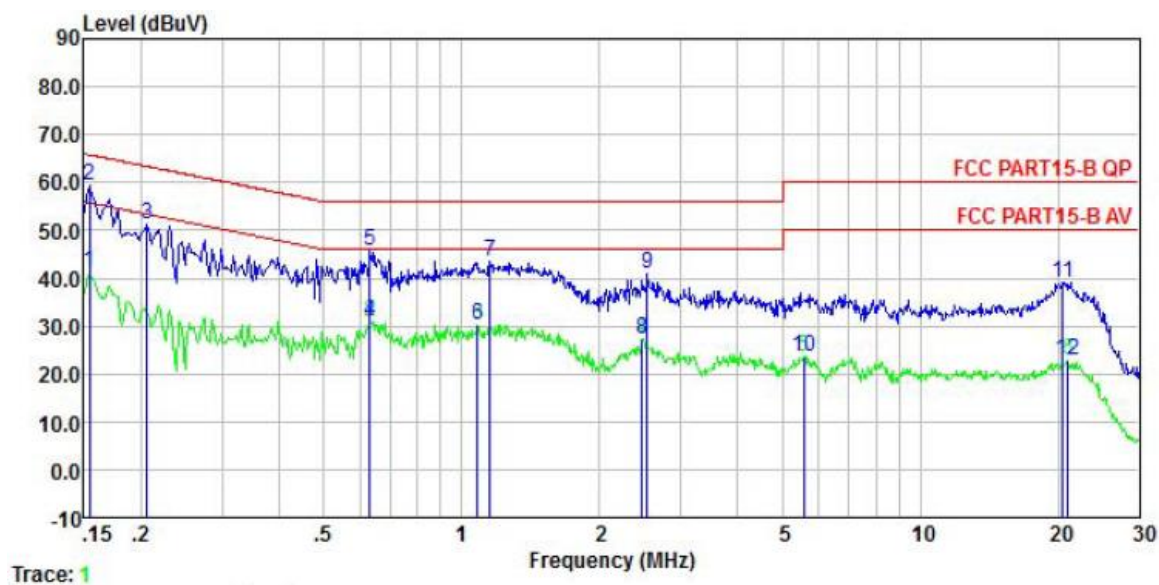


4.2 Test Procedure

Test method	Test step
Conducted emission	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	For below 1GHz: 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. 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. For above 1GHz: 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.

5.2 Conducted Emission

Product name:	Tablet	Product model:	T1005L
Test by:	Ray	Test mode:	Charging & Recording mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		

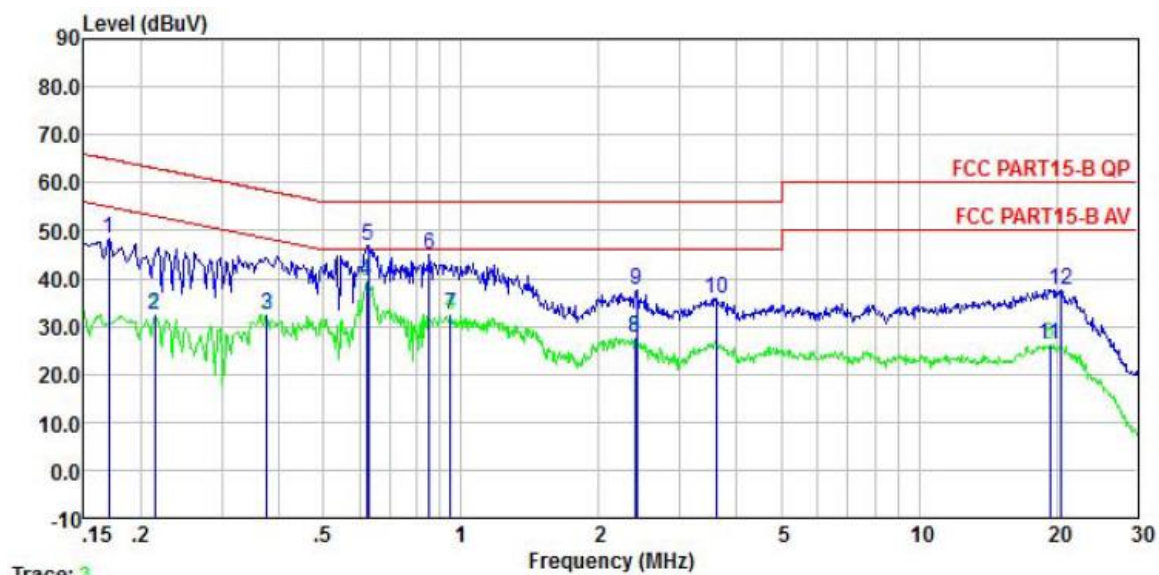


	Freq	Read Level	LISN Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.154	30.45	0.20	10.50	0.01	41.16	55.78	-14.62	Average
2	0.154	48.52	0.20	10.50	0.01	59.23	65.78	-6.55	QP
3	0.206	40.34	0.20	10.50	0.04	51.08	63.36	-12.28	QP
4	0.630	20.40	0.20	10.50	0.02	31.12	46.00	-14.88	Average
5	0.630	35.12	0.20	10.50	0.02	45.84	56.00	-10.16	QP
6	1.082	19.57	0.21	10.50	0.07	30.35	46.00	-15.65	Average
7	1.153	32.86	0.22	10.50	0.08	43.66	56.00	-12.34	QP
8	2.474	16.29	0.30	10.50	0.14	27.23	46.00	-18.77	Average
9	2.540	29.84	0.30	10.50	0.13	40.77	56.00	-15.23	QP
10	5.564	12.79	0.30	10.50	0.09	23.68	50.00	-26.32	Average
11	20.486	28.10	0.39	10.50	0.18	39.17	60.00	-20.83	QP
12	21.035	11.88	0.39	10.50	0.17	22.94	50.00	-27.06	Average

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	Tablet	Product model:	T1005L
Test by:	Ray	Test mode:	Charging & Recording mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



Trace: 3

	Freq	Read Level	LISN Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.170	37.86	0.00	10.50	0.01	48.37	64.94	-16.57	QP
2	0.214	22.01	0.00	10.50	0.03	32.54	53.05	-20.51	Average
3	0.377	22.02	0.00	10.50	0.03	32.55	48.34	-15.79	Average
4	0.621	28.80	0.00	10.50	0.02	39.32	46.00	-6.68	Average
5	0.627	36.20	0.00	10.50	0.02	46.72	56.00	-9.28	QP
6	0.853	34.40	0.00	10.50	0.04	44.94	56.00	-11.06	QP
7	0.948	22.06	0.00	10.50	0.05	32.61	46.00	-13.39	Average
8	2.396	17.08	0.00	10.50	0.15	27.73	46.00	-18.27	Average
9	2.422	27.10	0.00	10.50	0.14	37.74	56.00	-18.26	QP
10	3.603	25.35	0.00	10.50	0.08	35.93	56.00	-20.07	QP
11	19.326	15.50	0.00	10.50	0.15	26.15	50.00	-23.85	Average
12	20.486	27.05	0.00	10.50	0.18	37.73	60.00	-22.27	QP

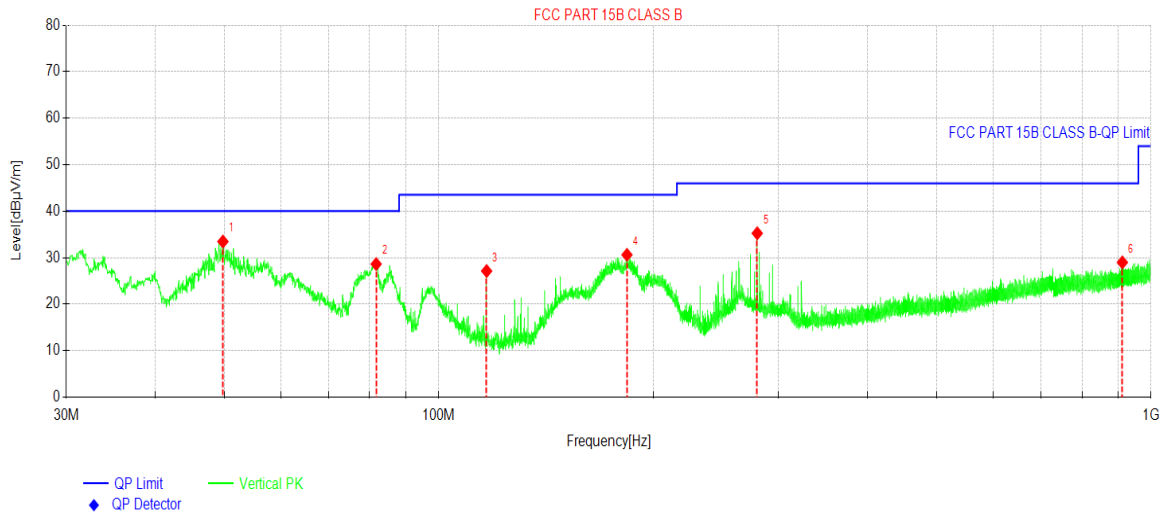
Remark:

1. Level = Read level + LISN Factor + Cable Loss.

5.3 Radiated Emission

Below 1GHz:

Product Name:	Tablet	Product Model:	T1005L
Test By:	Ray	Test mode:	Charging & Recording mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		



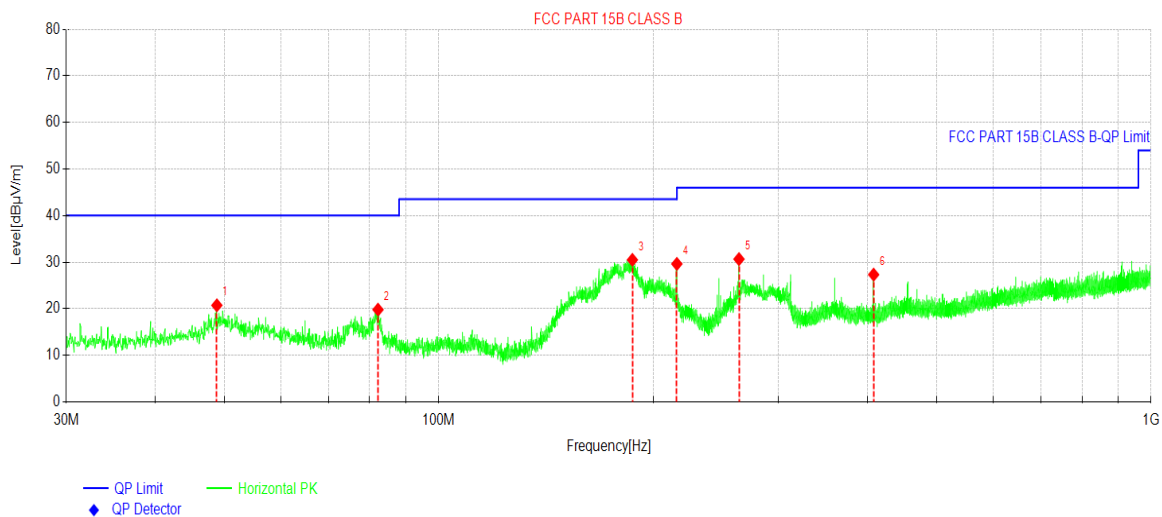
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	49.7890	46.08	-12.62	33.46	40.00	6.54	PK	Vertical
2	81.7036	47.04	-18.42	28.62	40.00	11.38	PK	Vertical
3	116.770	43.11	-15.98	27.13	43.50	16.37	PK	Vertical
4	183.801	46.95	-16.34	30.61	43.50	12.89	PK	Vertical
5	280.030	48.50	-13.26	35.24	46.00	10.76	PK	Vertical
6	911.580	31.60	-2.63	28.97	46.00	17.03	PK	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Tablet	Product Model:	T1005L
Test By:	Ray	Test mode:	Charging & Recording mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



Suspected Data List

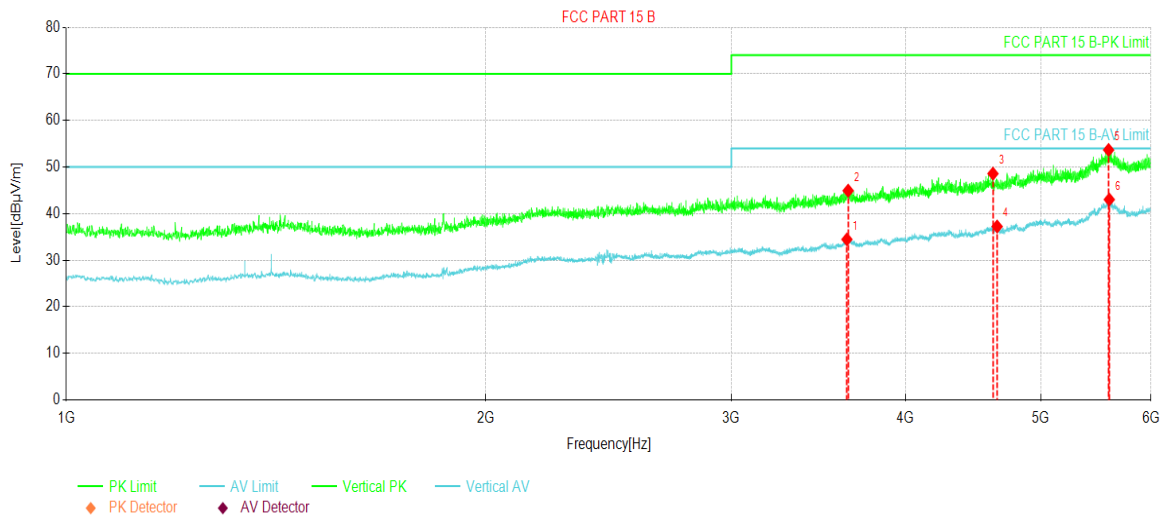
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	48.8189	33.39	-12.66	20.73	40.00	19.27	PK	Horizontal
2	82.1886	38.10	-18.30	19.80	40.00	20.20	PK	Horizontal
3	187.050	46.37	-15.88	30.49	43.50	13.01	PK	Horizontal
4	215.958	44.42	-14.81	29.61	43.50	13.89	PK	Horizontal
5	263.975	44.06	-13.41	30.65	46.00	15.35	PK	Horizontal
6	407.979	37.68	-10.36	27.32	46.00	18.68	PK	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preampifier Factor).

Above 1GHz:

Product Name:	Tablet	Product Model:	T1005L
Test By:	Ray	Test mode:	Charging & Recording mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		



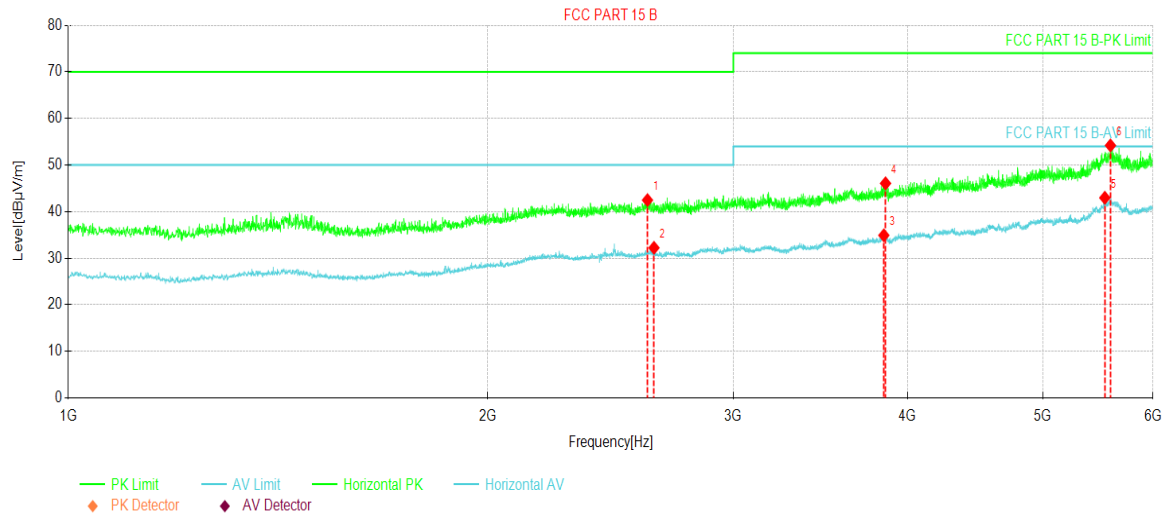
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3630.95	34.46	-15.02	54.00	19.54	100	158	Vertical
2	3638.45	44.92	-14.93	74.00	29.08	100	81	Vertical
3	4621.70	48.57	-11.36	74.00	25.43	100	207	Vertical
4	4653.58	37.22	-11.39	54.00	16.78	100	107	Vertical
5	5594.32	53.66	-4.91	74.00	20.34	100	158	Vertical
6	5600.57	43.00	-4.84	54.00	11.00	100	245	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Tablet	Product Model:	T1005L
Test By:	Ray	Test mode:	Charging & Recording mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2603.32	42.46	-18.09	70.00	27.54	100	70	Horizontal
2	2631.45	32.22	-18.50	50.00	17.78	100	198	Horizontal
3	3846.60	34.90	-14.40	54.00	19.10	100	109	Horizontal
4	3857.23	46.05	-14.45	74.00	27.95	100	76	Horizontal
5	5541.19	42.96	-5.78	54.00	11.04	100	102	Horizontal
6	5593.07	54.19	-4.92	74.00	19.81	100	76	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

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