

APPLICATION CERTIFICATION FCC Part 15B

On Behalf of
Superinworld Technology Co., Ltd

7 inch Tablet PC/ MID
Model No.: SM708

FCC ID: Q6I-SM708

Prepared for : Superinworld Technology Co., Ltd
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District, Shenzhen City, Guangdong Province, China
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Report Number : ATE20122378
Date of Test : Oct 16-Oct 24, 2012
Date of Report : Oct 24, 2012

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Test Report Certification

Applicant : Superinworld Technology Co., Ltd
Manufacturer : Superinworld Technology Co., Ltd
EUT Description : 7 Inch Tablet PC/ MID
(A) MODEL NO.: SM708
(B) SERIAL NO.: N/A
(C) POWER SUPPLY: DC 3.7V (Li-polymer battery) & AC 120V/60Hz
(Adapter input)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B ANSI C63.4: 2009

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : Aug 16-Oct 24, 2012

Prepared by : 
(Terry. Yang, Engineer)

Approved & Authorized Signer : 
(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	7 Inch Tablet PC/ MID
Model Number	:	SM708
Power Supply	:	DC 3.7V (Li-polymer battery) & AC 120V/60Hz (Adapter input) Model number: WYT-00502000 Input: 100-240VAC 50/60Hz 0.3A Output: 5V 2000mA
Highest operation frequency of the EUT:	:	1GHz
Applicant	:	Superinworld Technology Co., Ltd
Address	:	Room 1107-1109 Jueshi Building, Jiabin Road, Luohu District, Shenzhen City, Guangdong Province, China
Manufacturer	:	Superinworld Technology Co., Ltd
Address	:	Room 1107-1109 Jueshi Building, Jiabin Road, Luohu District, Shenzhen City, Guangdong Province, China
Date of sample received	:	Oct 16, 2012
Date of Test	:	Oct 16-Oct 24, 2012

1.2. Accessory and Auxiliary Equipment

Notebook PC : Manufacturer: Lenovo
M/N: 4290-RT8
S/N: R9-FW93G 11/08

Printer : Manufacturer: Canon
Model No.: BJC-1000SP

1.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

1.4. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated date	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 8, 2012	Jan. 7, 2013
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 8, 2012	Jan. 7, 2013
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 8, 2012	Jan. 7, 2013
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 8, 2012	Jan. 7, 2013
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 8, 2012	Jan. 7, 2013
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 8, 2012	Jan. 7, 2013
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 8, 2012	Jan. 7, 2013
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 8, 2012	Jan. 7, 2013

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The modes are used:

- 1) Charging+Playing
- 2) Transfer data
- 3) HDMI

Configuration and peripherals



(EUT: 7 Inch Tablet PC/ MID)

4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.107	Conducted Emission Test	Compliant
Section 15.109	Radiated Emission Test	Compliant

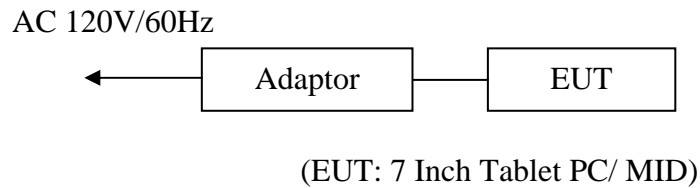
5. CONDUCTED EMISSION FOR FCC PART 15 SECTION

15.107(A)

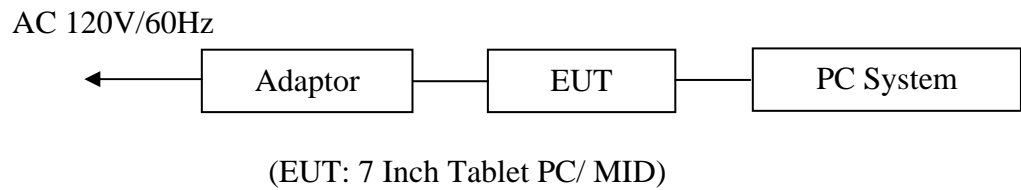
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators

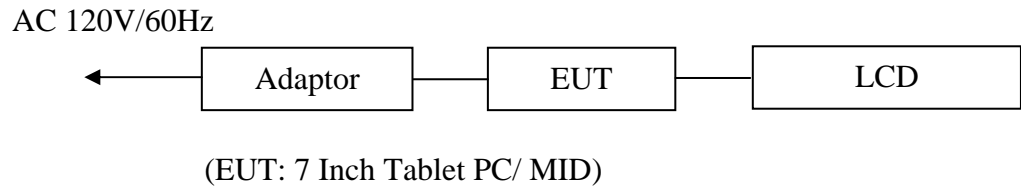
5.1.1.1. For Charging & Playing



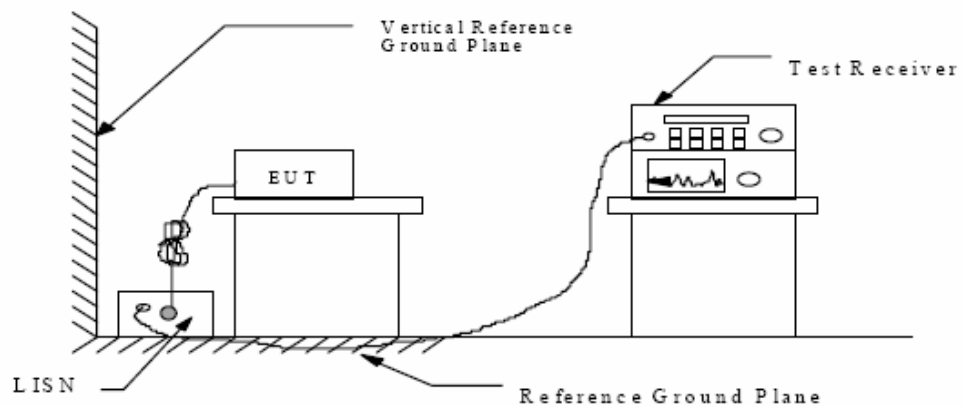
5.1.1.2. For Transfer data



5.1.1.3. For HDMI



5.1.2. Shielding Room Test Setup Diagram



(EUT: 7 Inch Tablet PC/ MID)

5.2.The Emission Limit

5.2.1.Conducted Emission Measurement Limits According to Section 15.107(a)

Frequency (MHz)	Limit dB(μV)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

5.3.Configuration of EUT on Measurement

The following equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1.7 Inch Tablet PC/ MID (EUT)

Model Number : SM708
 Serial Number : N/A
 Manufacturer : Superinworld Technology Co., Ltd

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in modes (Charging &Playing, Transfer data, HDMI) and measure it.

5.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2009 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9 kHz.

The frequency range from 150 kHz to 30MHz is checked.

5.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150 kHz to 30MHz is checked.

Date of Test:	Oct 22, 2012	Temperature:	25°C
EUT:	7 Inch Tablet PC/ MID	Humidity:	50%
Model No.:	SM708	Power Supply:	AC 120V/60Hz
Test Mode:	Charging&Playing	Test Engineer:	Ricky

MEASUREMENT RESULT: "RY1022-22_fin"

10/22/2012 9:27AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.163117	54.60	11.1	65	10.7	QP	L1	GND
4.056374	39.60	11.5	56	16.4	QP	L1	GND
5.195511	34.90	11.4	60	25.1	QP	L1	GND

MEASUREMENT RESULT: "RY1022-22_fin2"

10/22/2012 9:27AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.165743	44.00	11.1	55	11.2	AV	L1	GND
2.433452	34.60	11.6	46	11.4	AV	L1	GND
5.195511	28.90	11.4	50	21.1	AV	L1	GND

MEASUREMENT RESULT: "RY1022-23_fin"

10/22/2012 9:30AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.164425	54.10	11.1	65	11.1	QP	N	GND
4.518021	39.80	11.5	56	16.2	QP	N	GND
5.279139	34.60	11.4	60	25.4	QP	N	GND

MEASUREMENT RESULT: "RY1022-23_fin2"

10/22/2012 9:30AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.167071	44.30	11.1	55	10.8	AV	N	GND
2.423757	35.10	11.6	46	10.9	AV	N	GND
5.133660	28.90	11.4	50	21.1	AV	N	GND

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

Date of Test:	Oct 18, 2012	Temperature:	25°C
EUT:	7 Inch Tablet PC/ MID	Humidity:	50%
Model No.:	SM708	Power Supply:	AC 120V/60Hz
Test Mode:	Transfer data	Test Engineer:	RICKY

MEASUREMENT RESULT: "FCC TR_fin"

10/18/2012 7:50PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.160533	45.70	11.1	65	19.7	QP	L1	GND
0.181681	57.30	11.2	64	7.1	QP	L1	GND
0.226289	49.50	11.3	63	13.1	QP	L1	GND

MEASUREMENT RESULT: "FCC TR_fin2"

10/18/2012 7:50PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.172493	43.40	11.1	55	11.4	AV	L1	GND
0.229932	34.00	11.4	53	18.5	AV	L1	GND
0.298051	32.80	11.6	50	17.5	AV	L1	GND

MEASUREMENT RESULT: "FCC TR_N_fin"

10/18/2012 7:54PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.168410	56.40	11.1	65	8.6	QP	N	GND
0.228103	46.70	11.3	63	15.8	QP	N	GND
3.104411	39.10	11.6	56	16.9	QP	N	GND

MEASUREMENT RESULT: "FCC TR_N_fin2"

10/18/2012 7:54PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.175269	42.30	11.1	55	12.4	AV	N	GND
0.231775	32.50	11.4	52	19.9	AV	N	GND
3.055234	32.00	11.6	46	14.0	AV	N	GND

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

Date of Test:	<u>Oct 22, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>7 Inch Tablet PC/ MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>SM708</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>HDMI</u>	Test Engineer:	<u>RICKY</u>

MEASUREMENT RESULT: "RY1022-21_fin"

10/22/2012 9:24AM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.162467	54.50	11.1	65	10.8	QP	L1	GND
4.221581	40.00	11.5	56	16.0	QP	L1	GND
5.133660	35.20	11.4	60	24.8	QP	L1	GND

MEASUREMENT RESULT: "RY1022-21_fin2"

10/22/2012 9:24AM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.168410	44.90	11.1	55	10.1	AV	L1	GND
2.423757	35.00	11.6	46	11.0	AV	L1	GND
5.133660	28.80	11.4	50	21.2	AV	L1	GND

MEASUREMENT RESULT: "RY1022-20_fin"

10/22/2012 9:21AM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.162467	54.60	11.1	65	10.7	QP	N	GND
4.221581	39.80	11.5	56	16.2	QP	N	GND
5.385570	34.30	11.4	60	25.7	QP	N	GND

MEASUREMENT RESULT: "RY1022-20_fin2"

10/22/2012 9:21AM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.546782	36.40	12.0	46	9.6	AV	N	GND
2.472622	34.50	11.6	46	11.5	AV	N	GND
5.321456	28.40	11.4	50	21.6	AV	N	GND

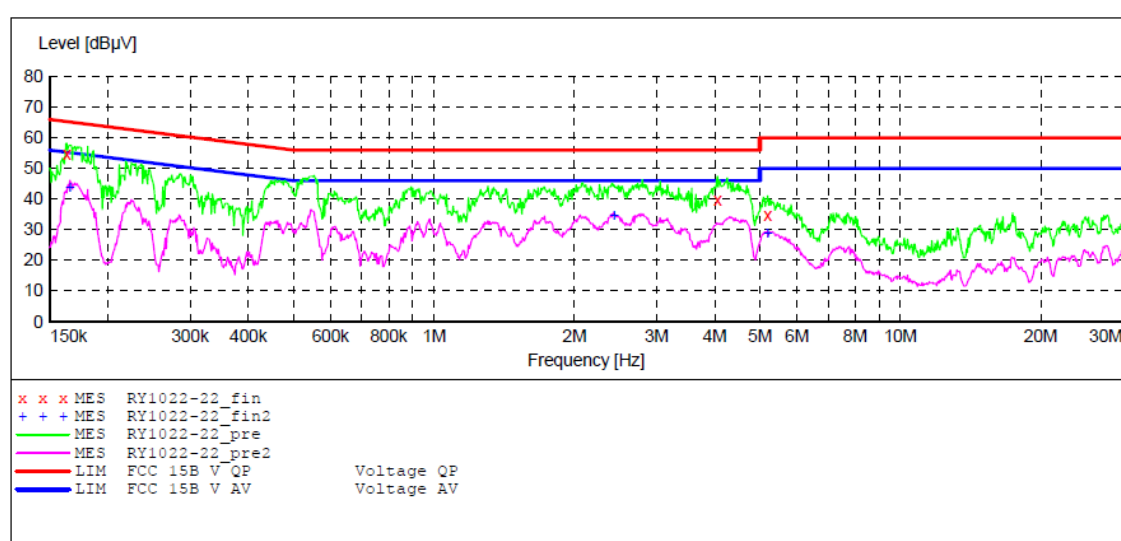
Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

ACCURATE TECHNOLOGY CO., LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: 7Inch Tablet PC/MID M/N:SM708
 Manufacturer: Superinworld Technology Co., Ltd
 Operating Condition: Charging+Media playing
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: L 120V/60Hz
 Comment:
 Start of Test: 10/22/2012 / 9:25:51AM

SCAN TABLE: "V 150K-30MHZ fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "RY1022-22_fin"**

10/22/2012 9:27AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.163117	54.60	11.1	65	10.7	QP	L1	GND
4.056374	39.60	11.5	56	16.4	QP	L1	GND
5.195511	34.90	11.4	60	25.1	QP	L1	GND

MEASUREMENT RESULT: "RY1022-22_fin2"

10/22/2012 9:27AM

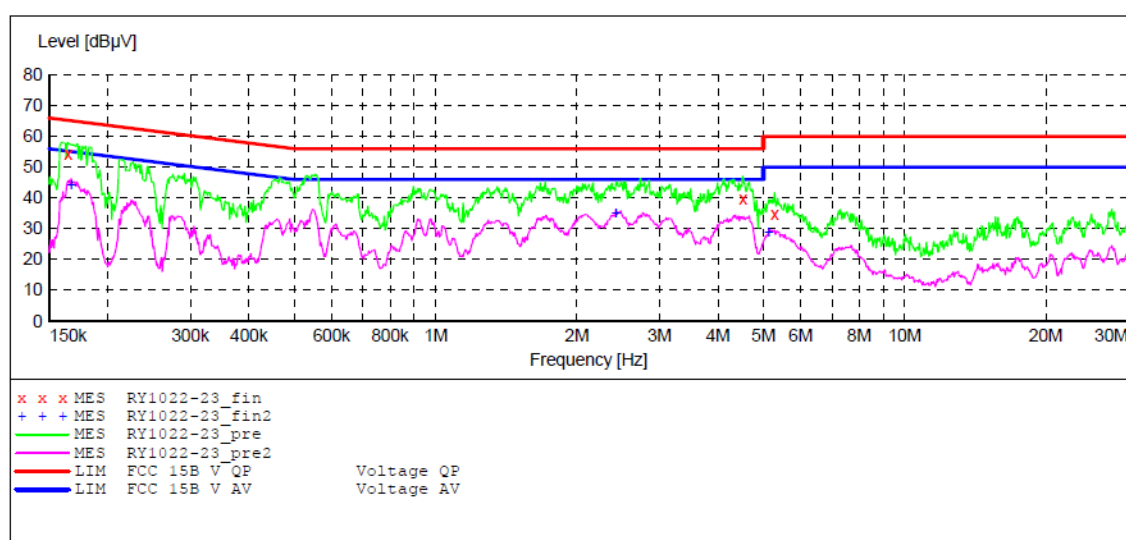
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.165743	44.00	11.1	55	11.2	AV	L1	GND
2.433452	34.60	11.6	46	11.4	AV	L1	GND
5.195511	28.90	11.4	50	21.1	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: 7Inch Tablet PC/MID M/N:SM708
 Manufacturer: Superinworld Technology Co., Ltd
 Operating Condition: Charging+Media playing
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: N 120V/60Hz
 Comment:
 Start of Test: 10/22/2012 / 9:28:41AM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "RY1022-23_fin"**

10/22/2012 9:30AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.164425	54.10	11.1	65	11.1	QP	N	GND
4.518021	39.80	11.5	56	16.2	QP	N	GND
5.279139	34.60	11.4	60	25.4	QP	N	GND

MEASUREMENT RESULT: "RY1022-23_fin2"

10/22/2012 9:30AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.167071	44.30	11.1	55	10.8	AV	N	GND
2.423757	35.10	11.6	46	10.9	AV	N	GND
5.133660	28.90	11.4	50	21.1	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

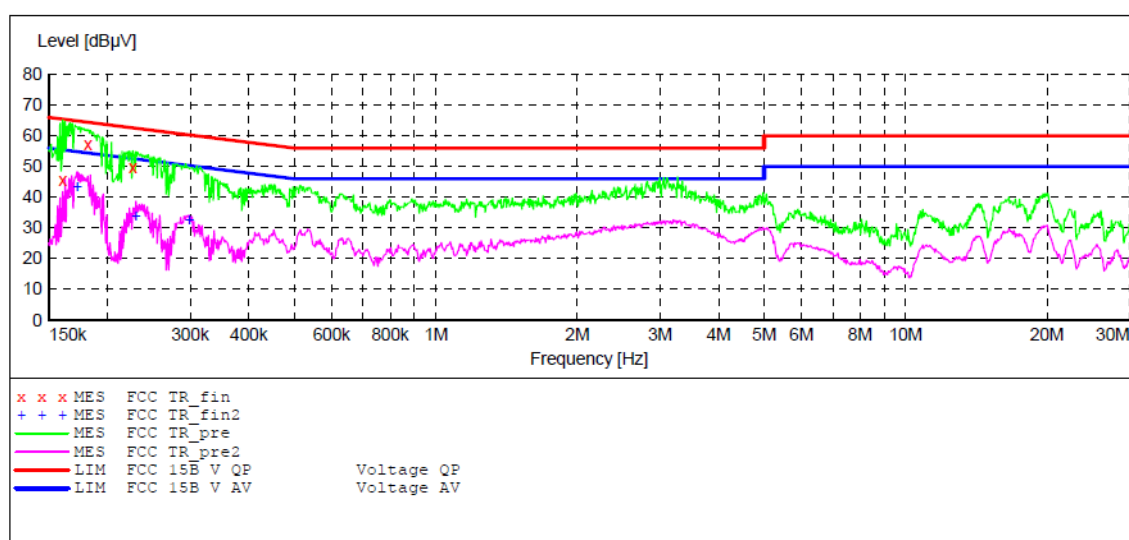
EUT: 7Inch Tablet PC/MID M/N:SM708
 Manufacturer: Superinworld Technology Co., Ltd
 Operating Condition: Transfer data
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: L 120V/60Hz
 Comment:
 Start of Test: 10/18/2012 / 7:47:25PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency 150.0 kHz	Frequency 30.0 MHz	Step Width 0.8 %	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008

 Average

**MEASUREMENT RESULT: "FCC TR_fin"**

10/18/2012 7:50PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.160533	45.70	11.1	65	19.7	QP	L1	GND
0.181681	57.30	11.2	64	7.1	QP	L1	GND
0.226289	49.50	11.3	63	13.1	QP	L1	GND

MEASUREMENT RESULT: "FCC TR_fin2"

10/18/2012 7:50PM

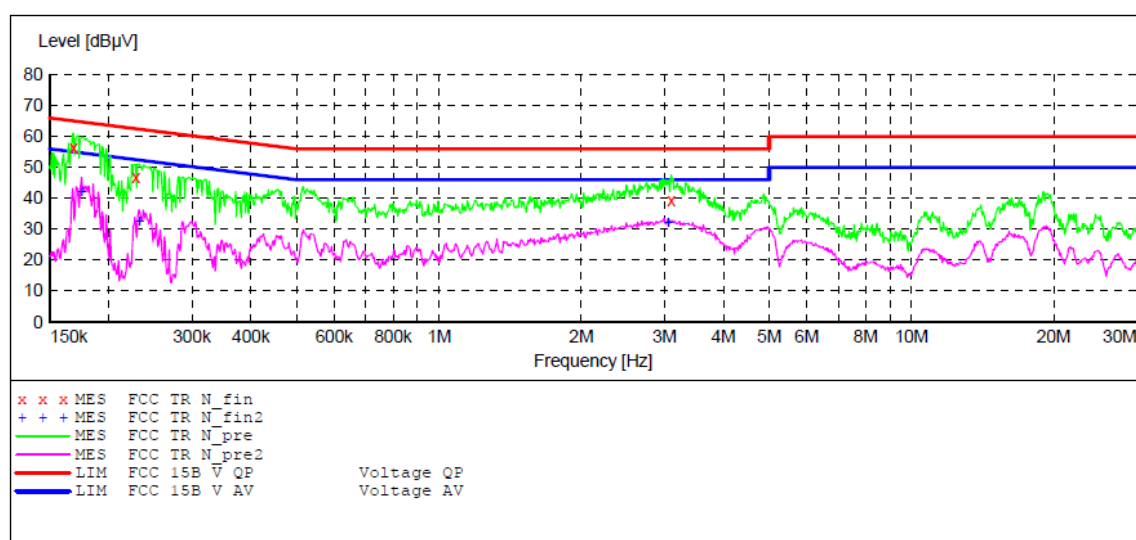
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.172493	43.40	11.1	55	11.4	AV	L1	GND
0.229932	34.00	11.4	53	18.5	AV	L1	GND
0.298051	32.80	11.6	50	17.5	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: 7Inch Tablet PC/MID M/N:SM708
 Manufacturer: Superinworld Technology Co., Ltd
 Operating Condition: Transfer data
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: N 120V/60Hz
 Comment:
 Start of Test: 10/18/2012 / 7:51:25PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "FCC TR N_fin"**

10/18/2012 7:54PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.168410	56.40	11.1	65	8.6	QP	N	GND
0.228103	46.70	11.3	63	15.8	QP	N	GND
3.104411	39.10	11.6	56	16.9	QP	N	GND

MEASUREMENT RESULT: "FCC TR N_fin2"

10/18/2012 7:54PM

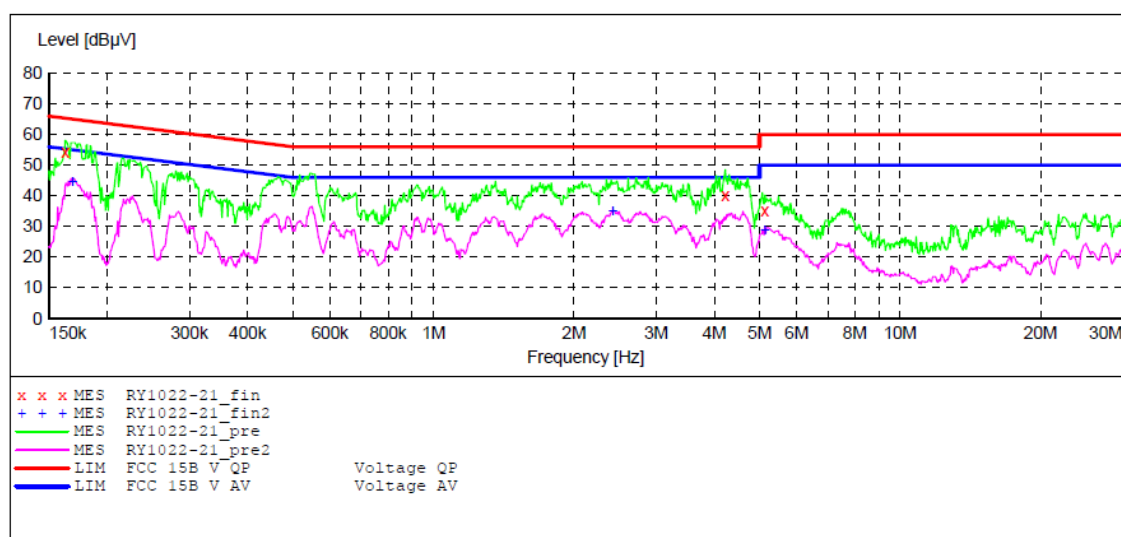
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.175269	42.30	11.1	55	12.4	AV	N	GND
0.231775	32.50	11.4	52	19.9	AV	N	GND
3.055234	32.00	11.6	46	14.0	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: 7Inch Tablet PC/MID M/N:SM708
 Manufacturer: Superinworld Technology Co., Ltd
 Operating Condition: HDMI
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: L 120V/60Hz
 Comment:
 Start of Test: 10/22/2012 / 9:21:56AM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "RY1022-21_fin"**

10/22/2012 9:24AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.162467	54.50	11.1	65	10.8	QP	L1	GND
4.221581	40.00	11.5	56	16.0	QP	L1	GND
5.133660	35.20	11.4	60	24.8	QP	L1	GND

MEASUREMENT RESULT: "RY1022-21_fin2"

10/22/2012 9:24AM

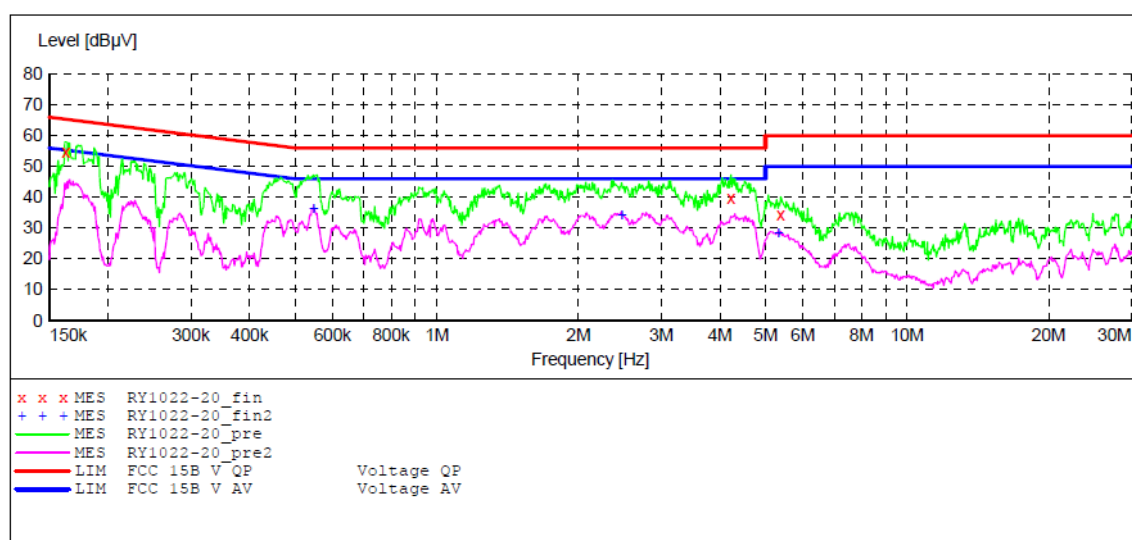
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.168410	44.90	11.1	55	10.1	AV	L1	GND
2.423757	35.00	11.6	46	11.0	AV	L1	GND
5.133660	28.80	11.4	50	21.2	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: 7Inch Tablet PC/MID M/N:SM708
 Manufacturer: Superinworld Technology Co., Ltd
 Operating Condition: HDMI
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: N 120V/60Hz
 Comment:
 Start of Test: 10/22/2012 / 9:19:15AM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB STD VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "RY1022-20_fin"**

10/22/2012 9:21AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.162467	54.60	11.1	65	10.7	QP	N	GND
4.221581	39.80	11.5	56	16.2	QP	N	GND
5.385570	34.30	11.4	60	25.7	QP	N	GND

MEASUREMENT RESULT: "RY1022-20_fin2"

10/22/2012 9:21AM

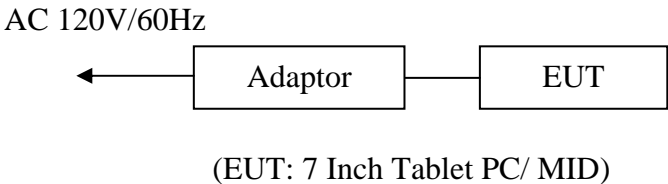
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.546782	36.40	12.0	46	9.6	AV	N	GND
2.472622	34.50	11.6	46	11.5	AV	N	GND
5.321456	28.40	11.4	50	21.6	AV	N	GND

6. RADIATED EMISSION FOR FCC PART 15 SECTION 15.109(A)

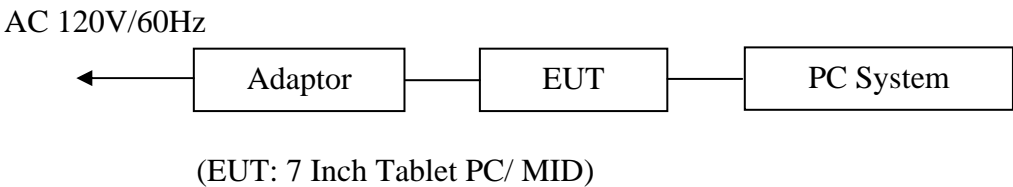
6.1. Block Diagram of Test Setup

6.1.1. Block diagram of connection between the EUT and simulators

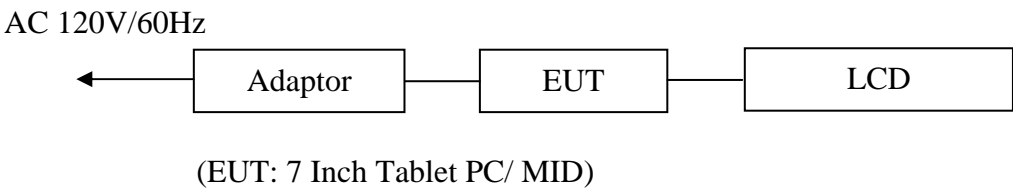
6.1.1.1. For Charing&Playing



6.1.1.2. For Transfer data

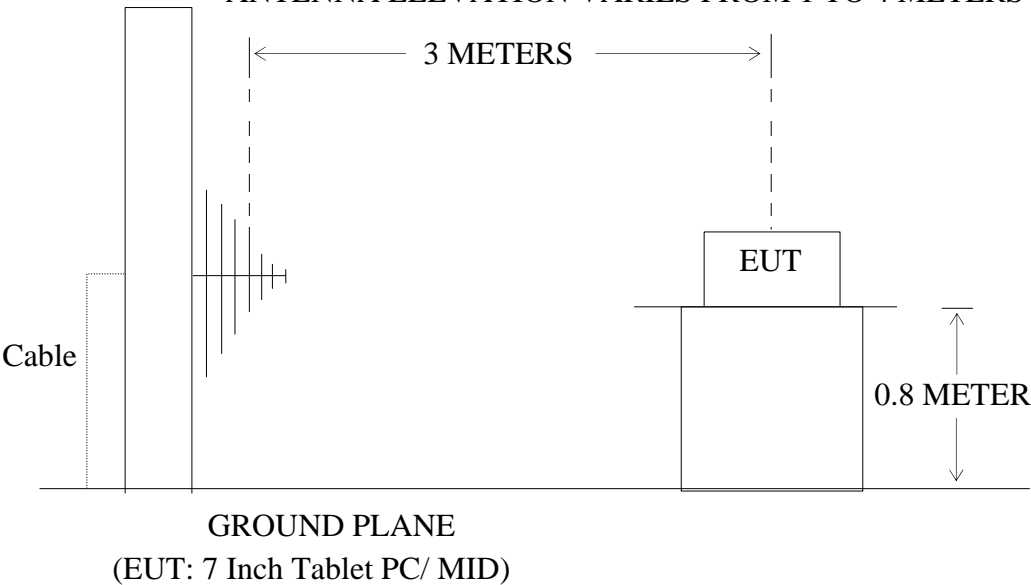


6.1.1.3. For HDMI



6.1.2. Semi-Anechoic Chamber Test Setup Diagram

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



6.2.The Emission Limit For Section 15.109 (a)

6.2.1.Radiation Emission Measurement Limits According to Section 15.109 (a).

Frequency (MHz)	Limit	
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dBμV/m)
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

6.3.EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.3.1.7 Inch Tablet PC/ MID (EUT)

Model Number : SM708
 Serial Number : N/A
 Manufacturer : Superinworld Technology Co., Ltd

6.4.Operating Condition of EUT

6.4.1.Setup the EUT and simulator as shown as Section 6.1.

6.4.2.Turn on the power of all equipment.

6.4.3. Let the EUT work in (Charging& Playing, Transfer data, HDMI) mode measure it.

6.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement.

The bandwidth of test receiver is set at 120 kHz in 30-1000MHz and 1MHz in above 1000MHz.

The frequency range from 30MHz to 5000MHz is checked.

6.6.The Emission Measurement Result

PASS.

Date of Test:	Oct 19, 2012	Temperature:	25°C
EUT:	7 Inch Tablet PC/ MID	Humidity:	50%
Model No.:	SM708	Power Supply:	AC 120V/60Hz
Test Mode:	Charging&Playing	Test Engineer:	Ricky

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	143.7760	23.48	11.48	34.96	43.50	-8.54	QP
	2	215.3616	19.90	14.62	34.52	43.50	-8.98	QP
	3	640.0396	15.11	26.08	41.19	46.00	-4.81	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	143.7760	23.53	11.48	35.01	43.50	-8.49	QP
	2	283.2637	21.92	18.38	40.30	46.00	-5.70	QP
	3	640.0396	15.77	26.08	41.85	46.00	-4.15	QP
Frequency: 1000-5000MHz								
Polarization								
Horizontal	-----							
Vertical	-----							

Date of Test:	Oct 19, 2012	Temperature:	25°C
EUT:	7 Inch Tablet PC/ MID	Humidity:	50%
Model No.:	SM708	Power Supply:	AC 120V/60Hz
Test Mode:	Transfer data	Test Engineer:	Ricky

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	143.2717	22.76	11.48	34.24	43.50	-9.26	QP
	2	353.4471	15.44	21.01	36.45	46.00	-9.55	QP
	3	640.0396	15.82	26.08	41.90	46.00	-4.10	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	215.3616	22.39	14.62	37.01	43.50	-6.49	QP
	2	353.4471	16.72	21.01	37.73	46.00	-8.27	QP
	3	776.4849	15.05	27.84	42.89	46.00	-3.11	QP
Frequency: 1000-5000MHz								
Polarization								
Horizontal	-----							
Vertical	-----							

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. The field strength is calculated by adding the antenna factor, high pass filter loss (if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$

3. The spectral diagrams are attached as below display the measurement of peak values.

Date of Test:	<u>Oct 19, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>7 Inch Tablet PC/ MID</u>	Humidity:	<u>50%</u>
Model No.:	<u>SM708</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>HDMI</u>	Test Engineer:	<u>Ricky</u>

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	143.7760	22.53	11.48	34.01	43.50	-9.49	QP
	2	215.3616	20.87	14.62	35.49	43.50	-8.01	QP
	3	640.0396	15.47	26.08	41.55	46.00	-4.45	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	143.7760	23.11	11.48	34.59	43.50	-8.91	QP
	2	283.2637	22.41	18.38	40.79	46.00	-5.21	QP
	3	640.0396	16.14	26.08	42.22	46.00	-3.78	QP
Frequency: 1000-5000MHz								
Polarization								
Horizontal	-----							
Vertical	-----							

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. The field strength is calculated by adding the antenna factor, high pass filter loss (if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$

3. The spectral diagrams are attached as below display the measurement of peak values.



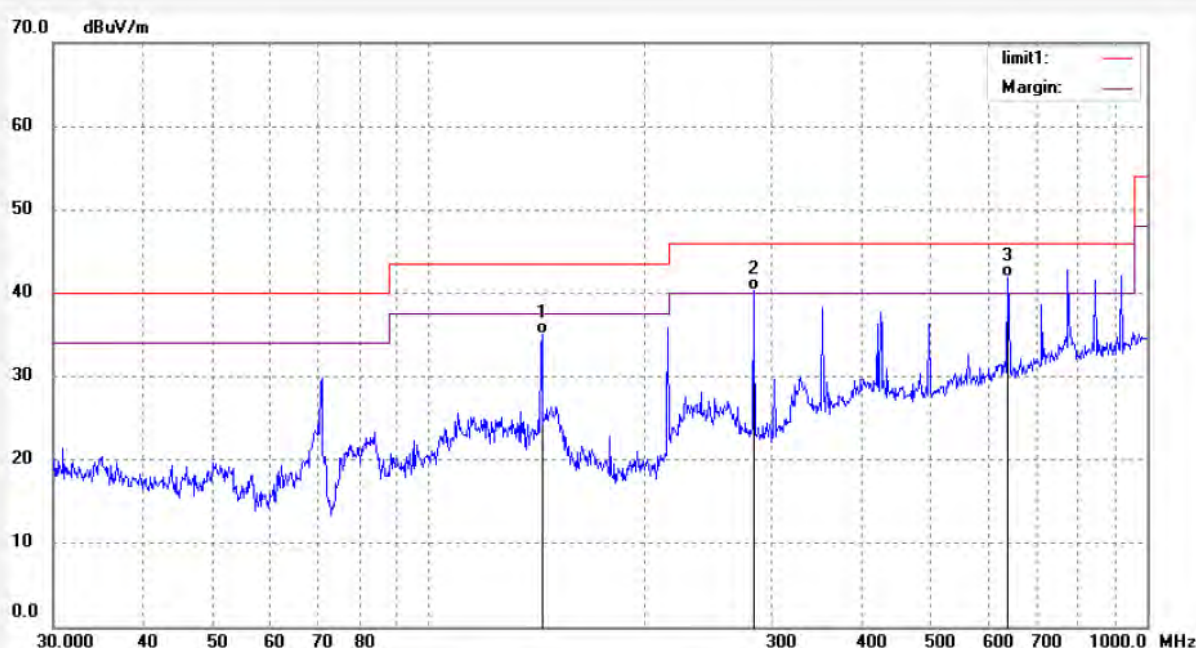
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: rucky2 #250	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/10/19/
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 2/46/19
EUT: 7 Inch Tablet PC/MID	Engineer Signature: Ricky
Mode: Charging+Media playing	Distance: 3m
Model: SM708	
Manufacturer: Superinworld Technology Co., Ltd	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	143.7760	23.53	11.48	35.01	43.50	-8.49	QP			
2	283.2637	21.92	18.38	40.30	46.00	-5.70	QP			
3	640.0396	15.77	26.08	41.85	46.00	-4.15	QP			



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Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: rucky2 #251

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: 7 Inch Tablet PC/MID

Mode: Charging+Media playing

Model: SM708

Manufacturer: Superinworld Technology Co., Ltd

Polarization: Horizontal

Power Source: AC 120V/60Hz

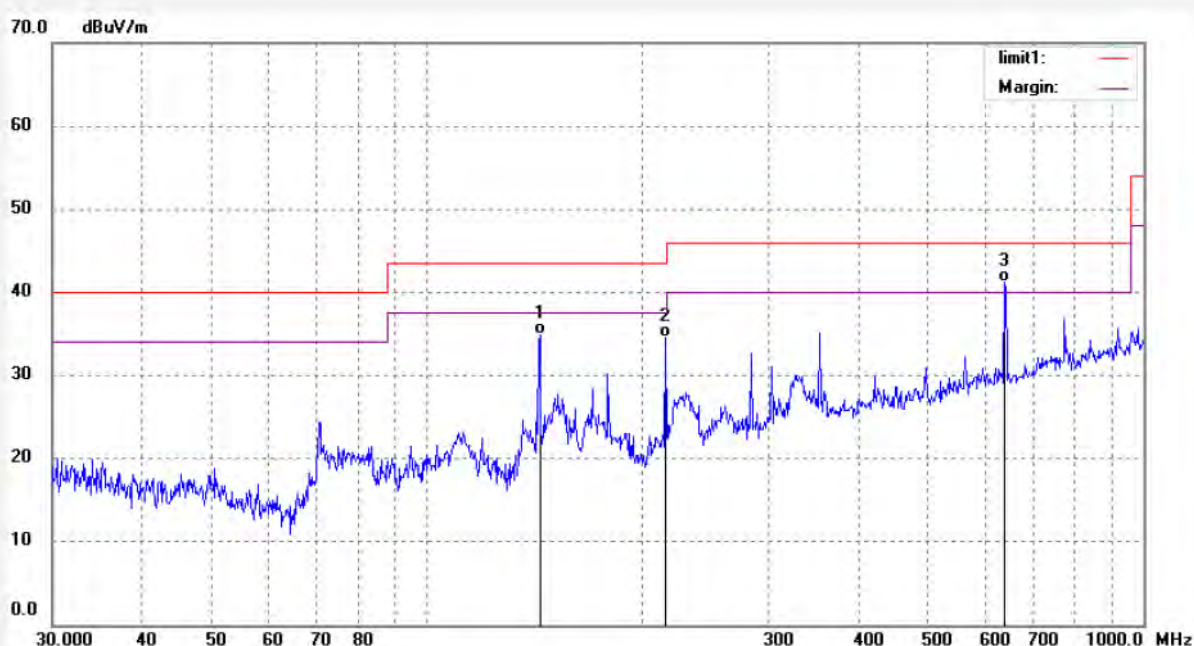
Date: 12/10/19/

Time: 2/47/17

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	143.7760	23.48	11.48	34.96	43.50	-8.54	QP			
2	215.3616	19.90	14.62	34.52	43.50	-8.98	QP			
3	640.0396	15.11	26.08	41.19	46.00	-4.81	QP			



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Job No.: rucky2 #254

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: 7 Inch Tablet PC/MID

Mode: Transfer data

Model: SM708

Manufacturer: Superinworld Technology Co., Ltd

Polarization: Horizontal

Power Source: AC 120V/60Hz

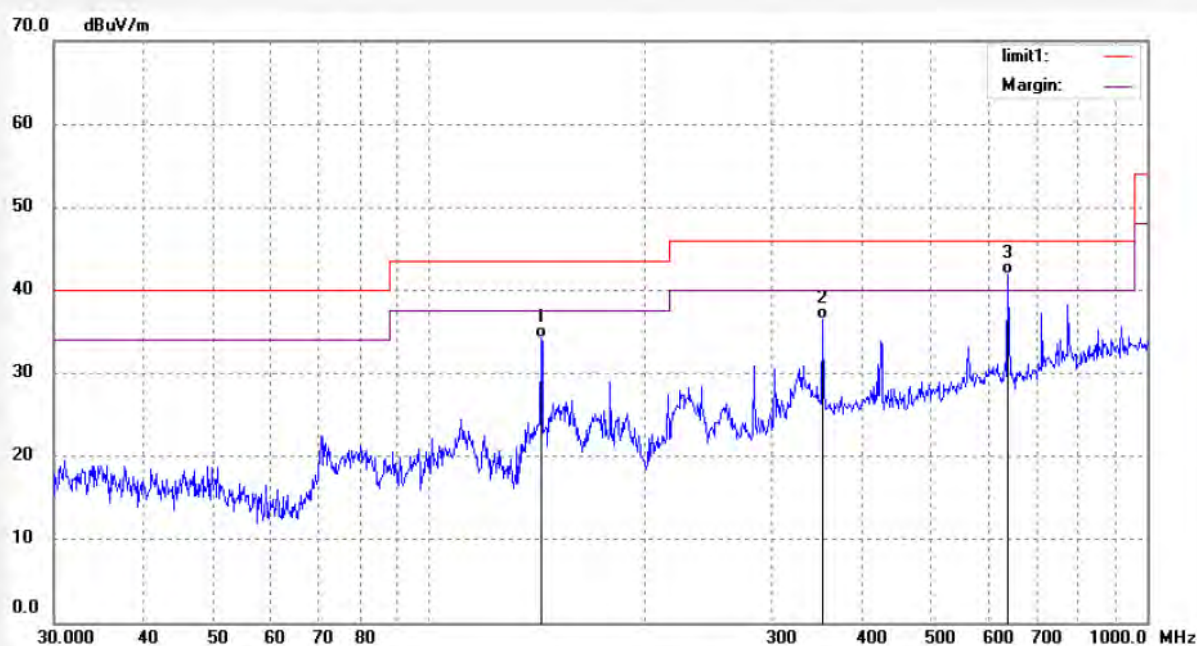
Date: 12/10/19/

Time: 2/53/28

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	143.2717	22.76	11.48	34.24	43.50	-9.26	QP			
2	353.4471	15.44	21.01	36.45	46.00	-9.55	QP			
3	640.0396	15.82	26.08	41.90	46.00	-4.10	QP			


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Fax:+86-0755-26503396

Job No.: rucky2 #255

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: 7 Inch Tablet PC/MID

Mode: Transfer data

Model: SM708

Manufacturer: Superinworld Technology Co., Ltd

Polarization: Vertical

Power Source: AC 120V/60Hz

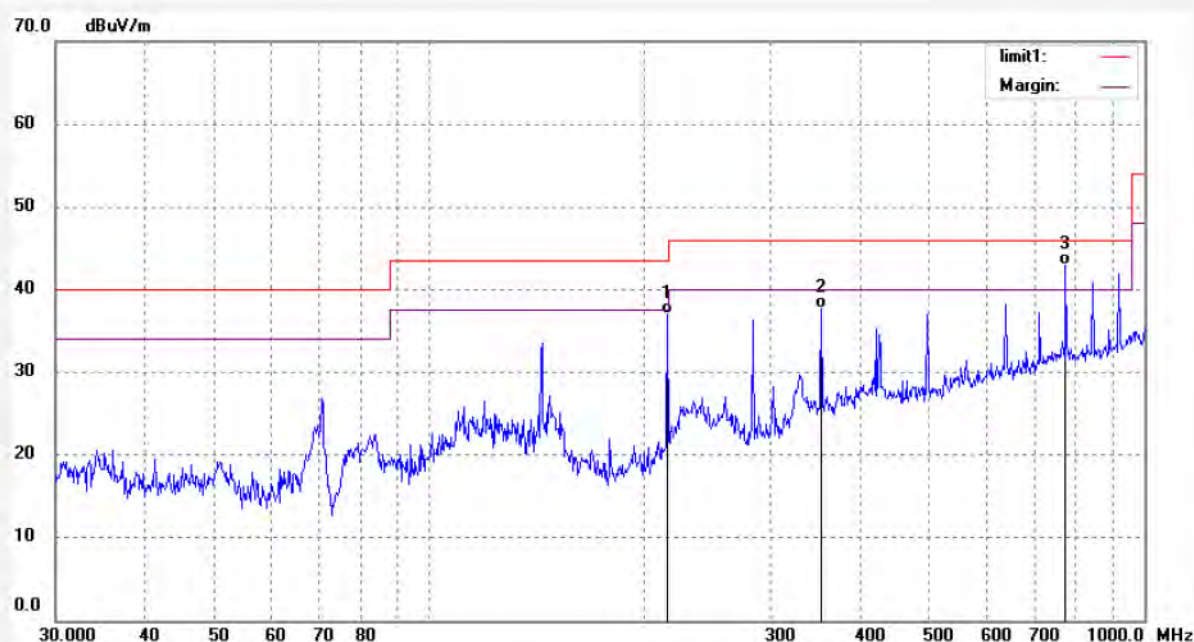
Date: 12/10/19/

Time: 2/54/07

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	215.3616	22.39	14.62	37.01	43.50	-6.49	QP			
2	353.4471	16.72	21.01	37.73	46.00	-8.27	QP			
3	776.4849	15.05	27.84	42.89	46.00	-3.11	QP			



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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: rucky2 #248

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: 7 Inch Tablet PC/MID

Mode: HDMI

Model: SM708

Manufacturer: Superinworld Technology Co., Ltd

Polarization: Horizontal

Power Source: AC 120V/60Hz

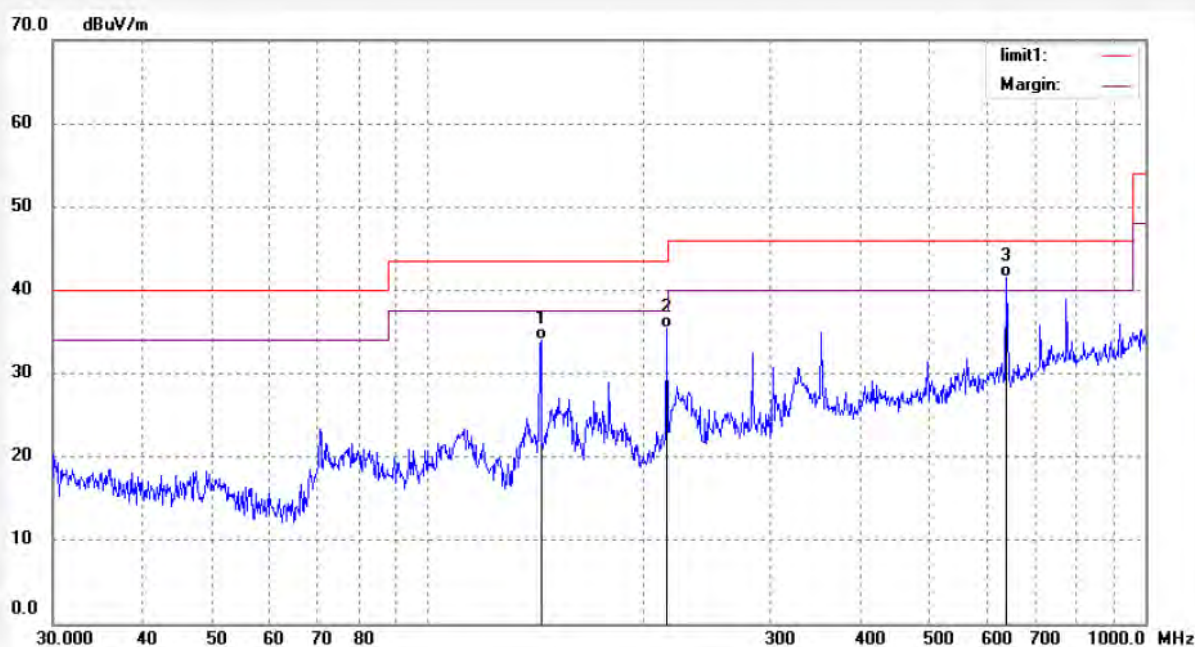
Date: 12/10/19/

Time: 2/42/59

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	143.7760	22.53	11.48	34.01	43.50	-9.49	QP			
2	215.3616	20.87	14.62	35.49	43.50	-8.01	QP			
3	640.0396	15.47	26.08	41.55	46.00	-4.45	QP			



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Fax:+86-0755-26503396

Job No.: rucky2 #249

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: 7 Inch Tablet PC/MID

Mode: HDMI

Model: SM708

Manufacturer: Superinworld Technology Co., Ltd

Polarization: Vertical

Power Source: AC 120V/60Hz

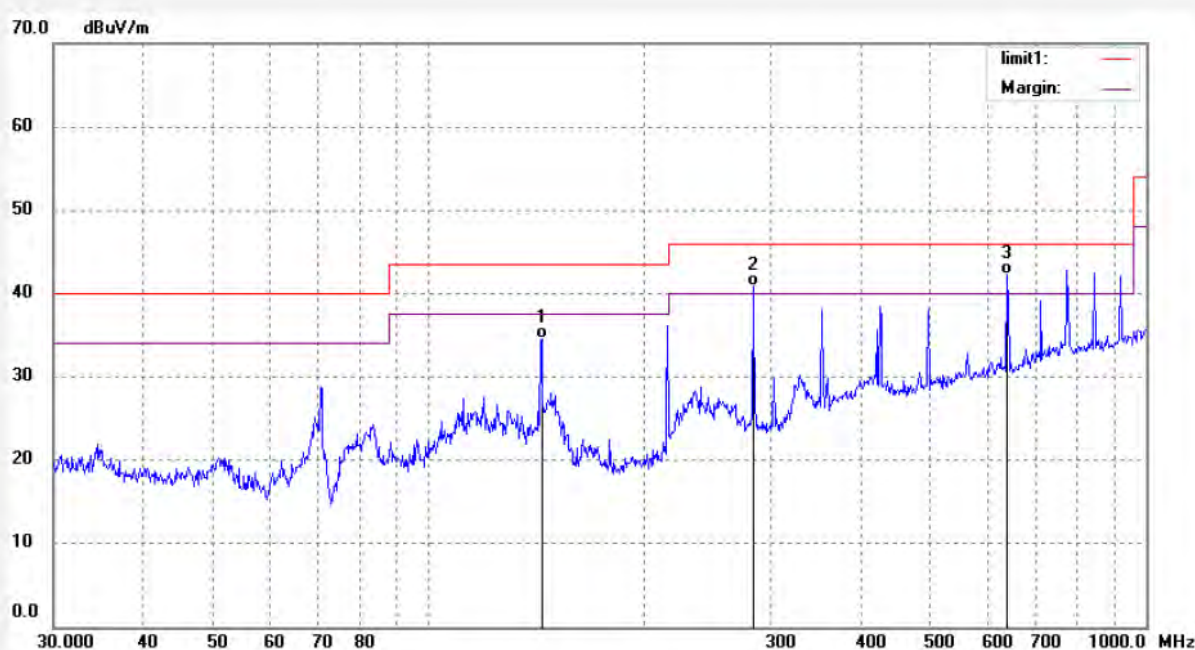
Date: 12/10/19/

Time: 2/45/02

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	143.7760	23.11	11.48	34.59	43.50	-8.91	QP			
2	283.2637	22.41	18.38	40.79	46.00	-5.21	QP			
3	640.0396	16.14	26.08	42.22	46.00	-3.78	QP			



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Site: 966 chamber

Tel:+86-0755-26503290

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Job No.: rucky2 #303

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: 7 Inch Tablet PC/MID

Mode: Media play

Model: SM708

Manufacturer: Superinworld Technology Co., Ltd

Polarization: Horizontal

Power Source: AC 120V/60Hz

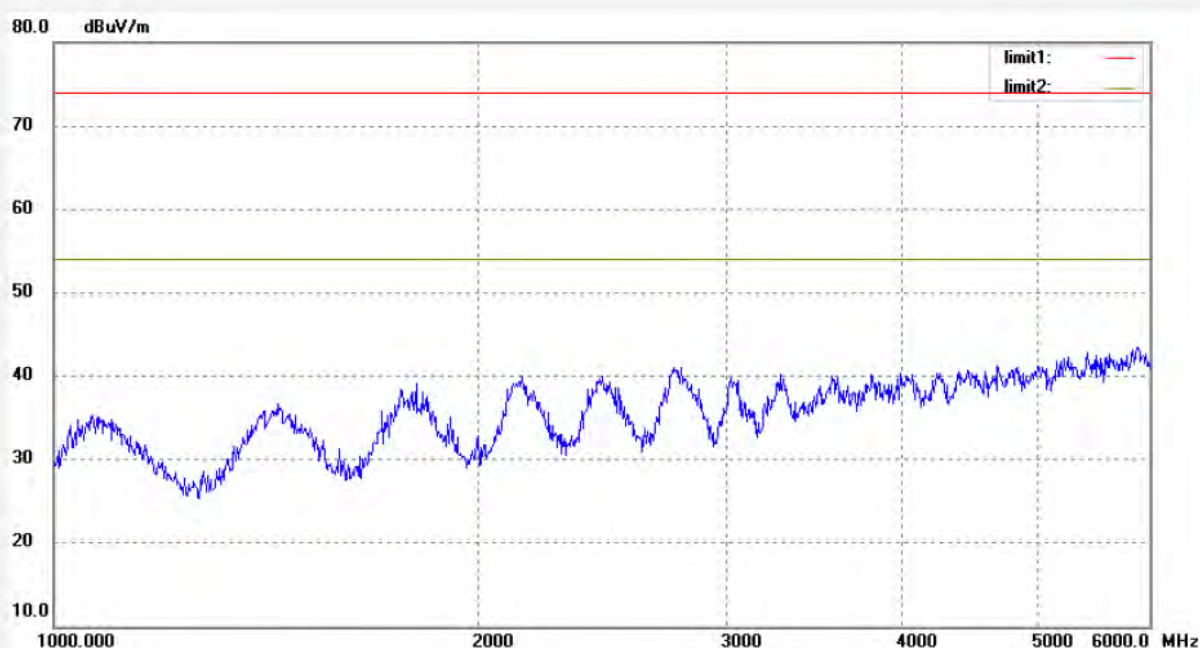
Date: 12/10/19/

Time: 4/59/49

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 966 chamber
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Job No.: rucky2 #304

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: 7 Inch Tablet PC/MID

Mode: Media play

Model: SM708

Manufacturer: Superinworld Technology Co., Ltd

Polarization: Vertical

Power Source: AC 120V/60Hz

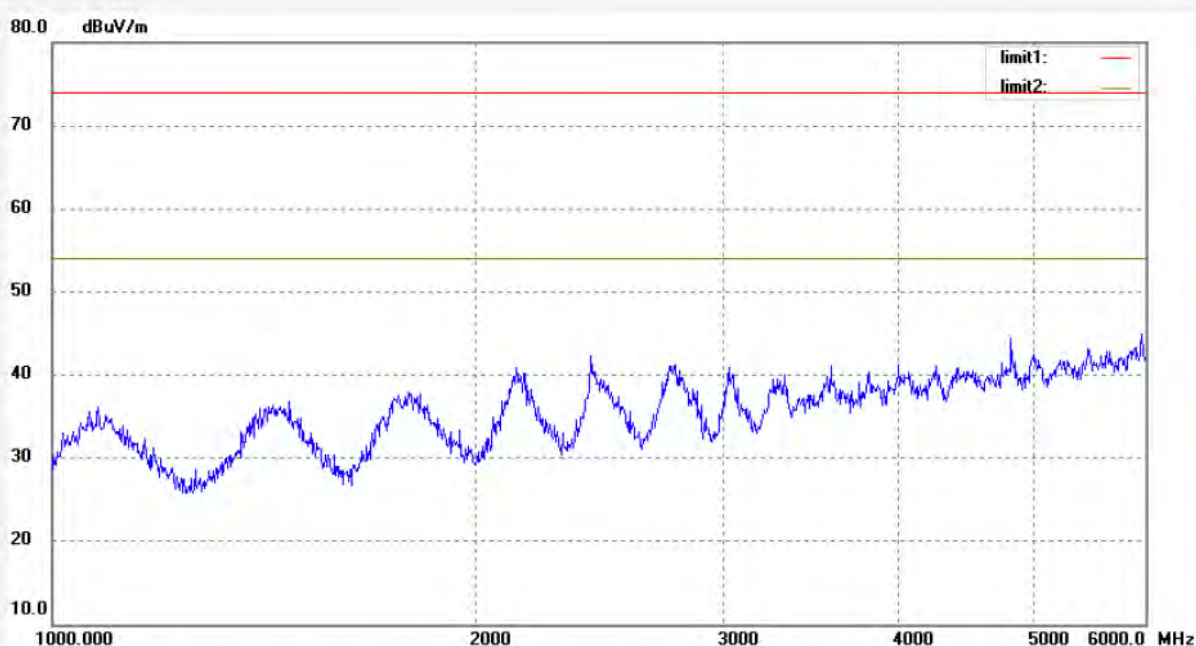
Date: 12/10/19/

Time: 5/02/20

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 966 chamber

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Fax:+86-0755-26503396

Job No.: rucky2 #301

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: 7 Inch Tablet PC/MID

Mode: HDMI

Model: SM708

Manufacturer: Superinworld Technology Co., Ltd

Polarization: Vertical

Power Source: AC 120V/60Hz

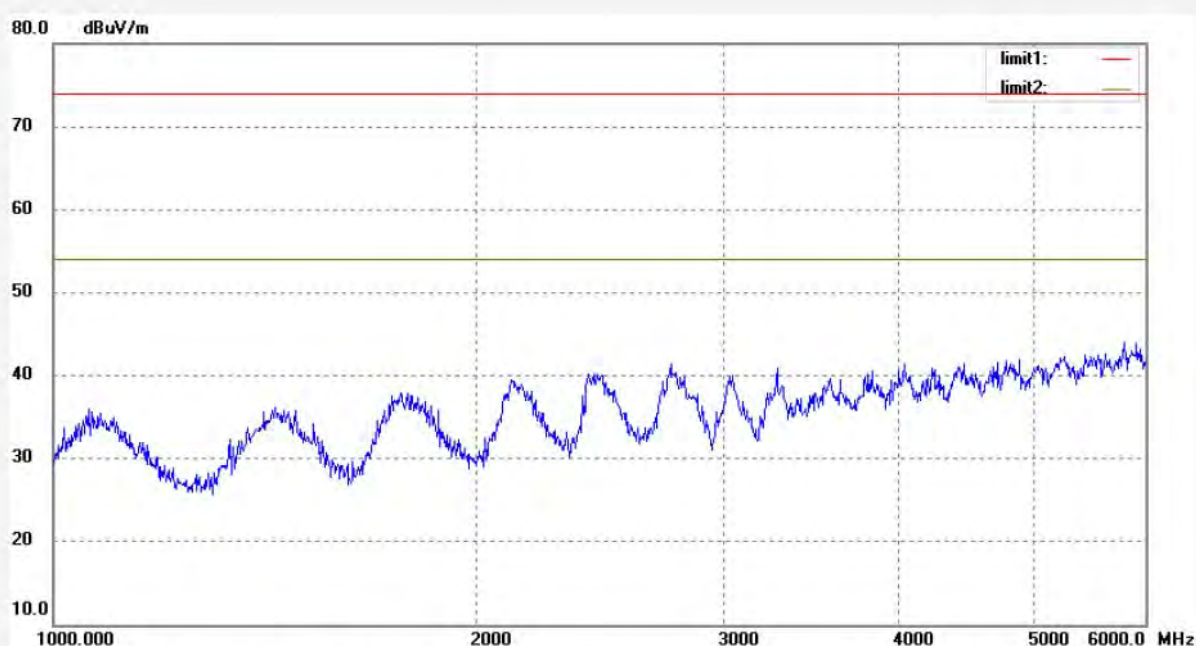
Date: 12/10/19/

Time: 4/55/38

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	----------------	---------------------	----------------	--------------------	-------------------	----------------	----------	----------------	------------------	--------



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Site: 966 chamber

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Fax:+86-0755-26503396

Job No.: rucky2 #302

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: 7 Inch Tablet PC/MID

Mode: HDMI

Model: SM708

Manufacturer: Superinworld Technology Co., Ltd

Polarization: Horizontal

Power Source: AC 120V/60Hz

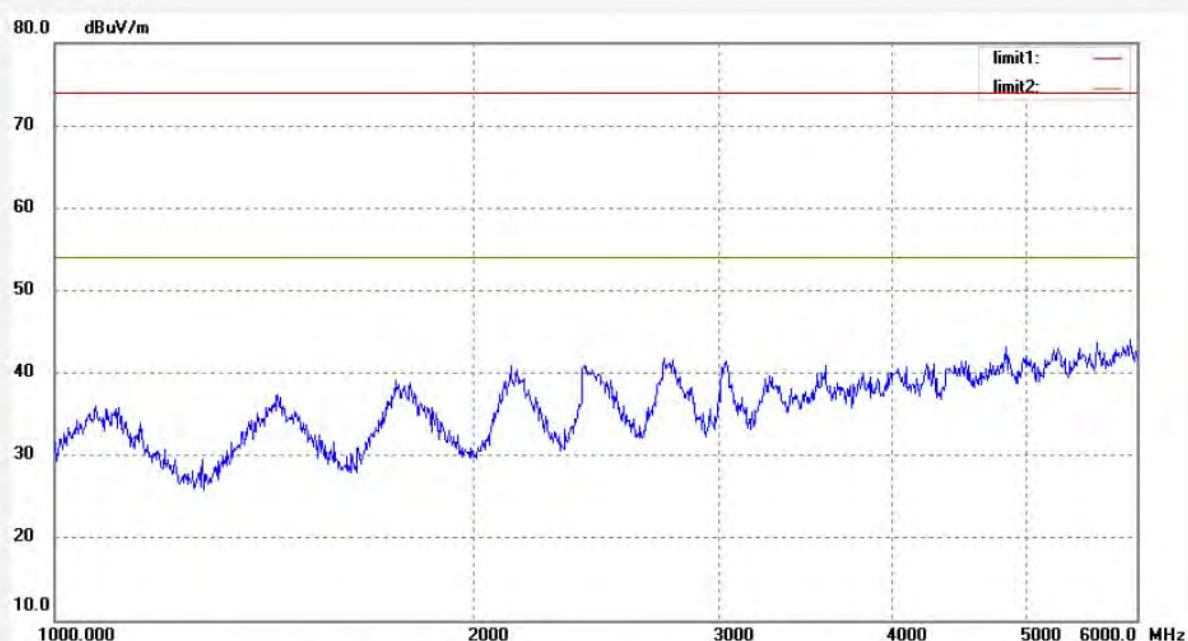
Date: 12/10/19/

Time: 4/57/34

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	----------------	---------------------	----------------	--------------------	-------------------	----------------	----------	----------------	------------------	--------


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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: rucky2 #297

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: 7 Inch Tablet PC/MID

Mode: transfer data

Model: SM708

Manufacturer: Superinworld Technology Co., Ltd

Polarization: Vertical

Power Source: AC 120V/60Hz

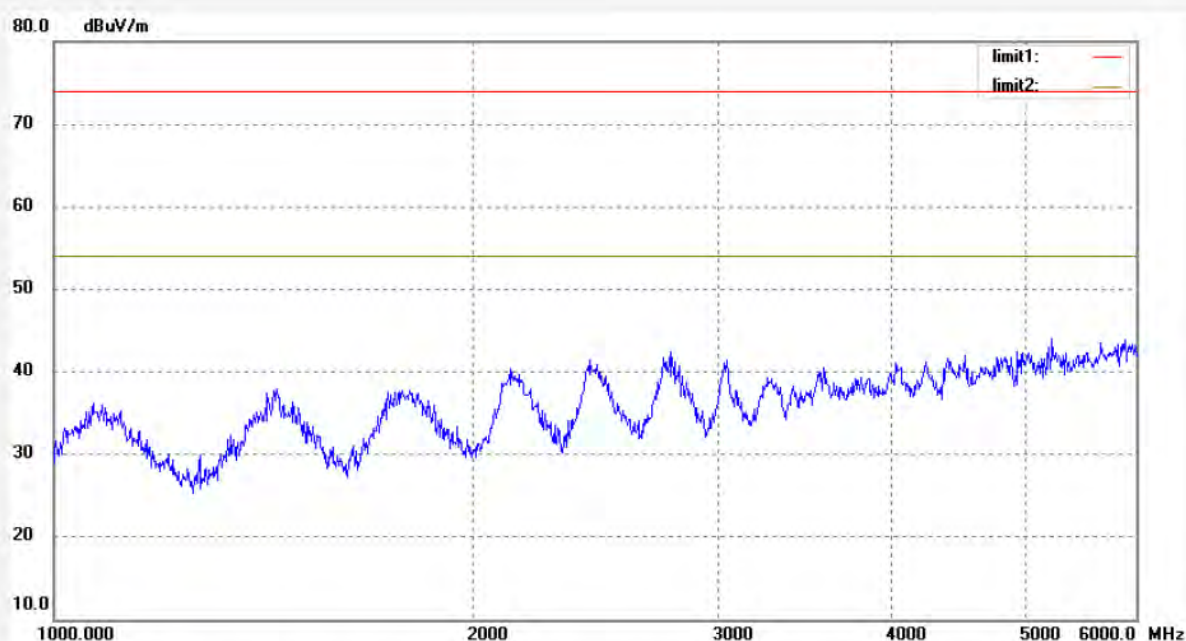
Date: 12/10/19/

Time: 4/47/07

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	----------------	---------------------	----------------	--------------------	-------------------	----------------	----------	----------------	------------------	--------



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: rucky2 #298

Standard: FCC PART 15B (PK)

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: 7 Inch Tablet PC/MID

Mode: transfer data

Model: SM708

Manufacturer: Superinworld Technology Co., Ltd

Polarization: Horizontal

Power Source: AC 120V/60Hz

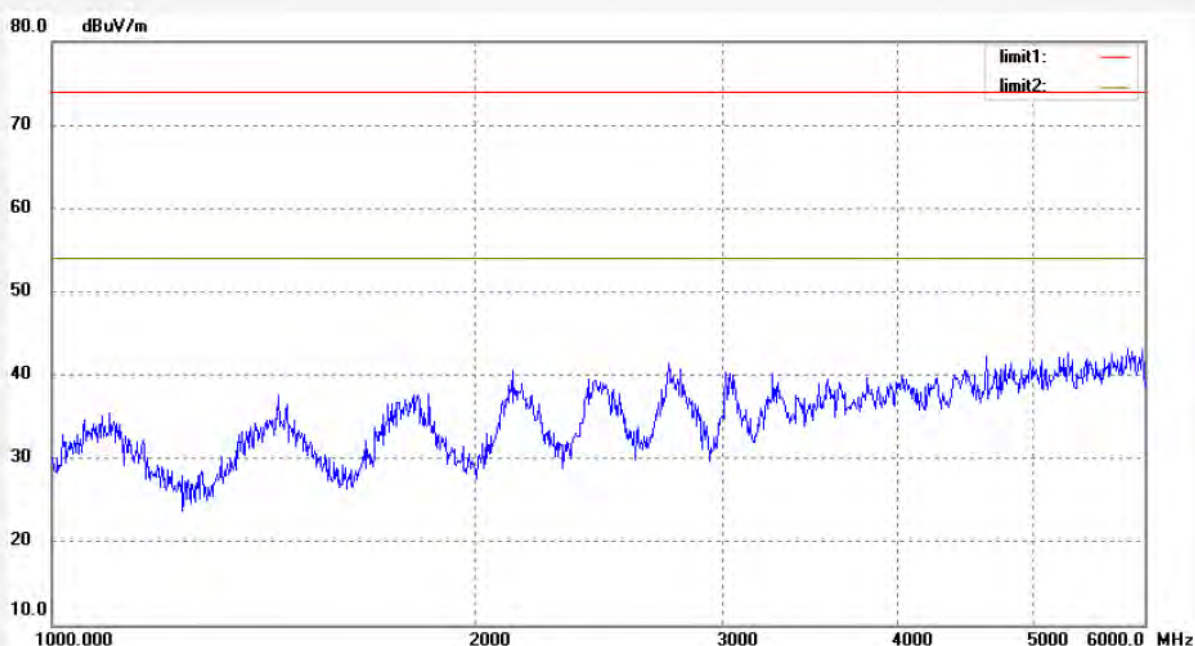
Date: 12/10/19/

Time: 4/49/23

Engineer Signature: Ricky

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	----------------	---------------------	----------------	--------------------	-------------------	----------------	----------	----------------	------------------	--------