



TESTING LABORATORY  
CERTIFICATE#4323.01



## FCC PART 15.225

### TEST REPORT

For

**Shanghai Sunmi Technology Co.,Ltd.**

Room 505, KIC Plaza, No.388 Song Hu Road, Yang Pu District, Shanghai, China

**FCC ID: 2AH25TF701**

<b>Report Type:</b> Original Report	<b>Product Type:</b> WIRELESS DATA TERMINAL
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<b>Report Number:</b>	RKSA200706001-00F
<b>Report Date:</b>	2021-06-08
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## **TABLE OF CONTENTS**

<b>GENERAL INFORMATION.....</b>	<b>3</b>
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) .....	3
OBJECTIVE .....	3
RELATED SUBMITTAL(S)/GRANT(S).....	3
TEST METHODOLOGY .....	4
MEASUREMENT UNCERTAINTY .....	4
TEST FACILITY .....	4
<b>SYSTEM TEST CONFIGURATION.....</b>	<b>5</b>
JUSTIFICATION .....	5
EUT EXERCISE SOFTWARE .....	5
EQUIPMENT MODIFICATIONS .....	5
SUPPORT EQUIPMENT LIST AND DETAILS .....	5
EXTERNAL I/O CABLE.....	5
BLOCK DIAGRAM OF TEST SETUP .....	5
<b>SUMMARY OF TEST RESULTS .....</b>	<b>7</b>
<b>TEST EQUIPMENT LIST .....</b>	<b>8</b>
<b>FCC§15.203 - ANTENNA REQUIREMENT.....</b>	<b>9</b>
APPLICABLE STANDARD .....	9
ANTENNA CONNECTED CONSTRUCTION .....	9
<b>FCC §15.207 (A) – AC LINE CONDUCTED EMISSIONS .....</b>	<b>10</b>
APPLICABLE STANDARD .....	10
EUT SETUP .....	10
EMI TEST RECEIVER SETUP.....	10
TEST PROCEDURE .....	10
FACTOR & OVER LIMIT CALCULATION.....	11
TEST RESULTS SUMMARY .....	11
TEST DATA .....	11
<b>FCC§15.225, §15.205 &amp; §15.209 - RADIATED EMISSIONS TEST .....</b>	<b>14</b>
APPLICABLE STANDARD .....	14
EUT SETUP .....	14
EMI TEST RECEIVER SETUP.....	15
CORRECTED AMPLITUDE & MARGIN CALCULATION .....	15
TEST RESULTS SUMMARY .....	15
TEST DATA .....	15
<b>FCC§15.225(E) - FREQUENCY STABILITY.....</b>	<b>22</b>
APPLICABLE STANDARD .....	22
TEST PROCEDURE .....	22
TEST DATA .....	23
<b>§15.215(C) - 20DB EMISSION BANDWIDTH TESTING .....</b>	<b>24</b>
REQUIREMENT .....	24
TEST PROCEDURE .....	24
TEST DATA .....	24

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

Applicant:	Shanghai Sunmi Technology Co.,Ltd.
Tested Model:	WIRELESS DATA TERMINAL
Product Type:	TF701
Power Supply:	DC 3.85V from battery DC 5.0/9.0/12.0/3.6~6.0/6.0~9.0/9.0~12.0V from adapter
RF Function:	NFC
Operating Band/Frequency:	13.56 MHz
Antenna Type:	FPC Antenna
*Maximum Antenna Gain:	0.0 dBi

*Adapter-1 Information:**Model: CK18W02U**Input: AC 100-240V~50/60Hz 0.5A**Output: DC 5.0V/3A, 9V/2A, 12V/1.5A**Adapter-2 Information:**Model: TPA-10120150UU**Input: AC 100-240V 50/60Hz 0.6A**Output: DC 3.6-6V/3A, 6-9V/2A, 9-12V/1.5A**Adapter-3 Information:**Model: TPA-23A050200UU01**Input: AC100-240V 50/60Hz 0.3A**Output: 5.0V, 2.0A**Adapter-4 Information:**Model: UC13US**Input: AC100-240V 50/60Hz 0.35A**Output: 5.0V, 2.0A*

*Note: The Maximum Antenna Gain was declared by the manufacturer.*

*\*All measurement and test data in this report was gathered from production sample serial number:*

*RKSA200706001-1 (Assigned by the BACL. The EUT supplied by the applicant was received on 2020-07-06)*

### Objective

This Type approval report is prepared on behalf of *Shanghai Sunmi Technology Co.,Ltd.* in accordance with Part 2- Subpart J, and Part 15-Subparts A and C of the Federal Communication Commission's rules.

The objective is to determine the Compliance of the EUT with FCC rules, sec 15.203, 15.205, 15.207, 15.209 and 15.225.

### Related Submittal(s)/Grant(s)

FCC Part 15.247 DTS submissions with FCC ID: 2AH25TF701

FCC Part 15.247 DSS for BT3.0 submissions with FCC ID: 2AH25TF701

FCC Part 22H/24E/27/90 PCB submissions with FCC ID: 2AH25TF701

FCC Part 15.407 NII submissions with FCC ID: 2AH25TF701

FCC Part 15B JBP submissions with FCC ID: 2AH25TF701

## Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Lab Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

## Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
RF conducted test with spectrum		0.9dB
Radiated emission	9kHz~30MHz	6.07dB
	30MHz~1GHz	6.11dB
Occupied Bandwidth		0.5kHz
Temperature		1.0°C
Humidity		6%

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01), the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISED requirement. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

## SYSTEM TEST CONFIGURATION

### Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

### EUT Exercise Software

The EUT is tested in the engineering mode.

### Equipment Modifications

No modification on the EUT.

### Support Equipment List and Details

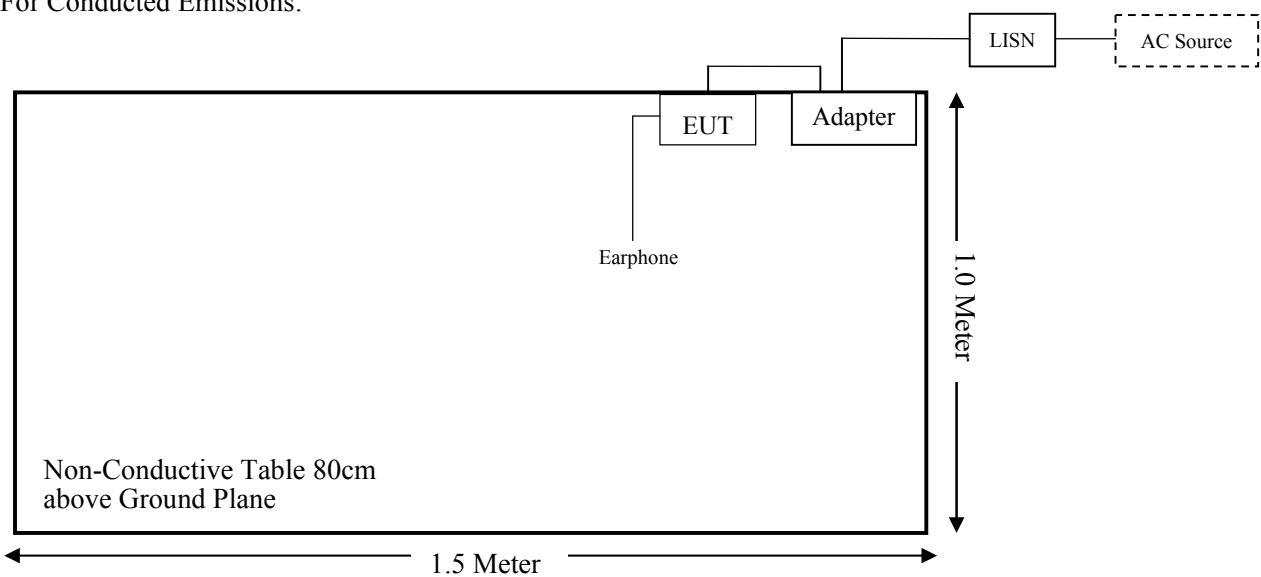
Manufacturer	Description	Model	Serial Number
BOLD	Earphone	/	/

### External I/O Cable

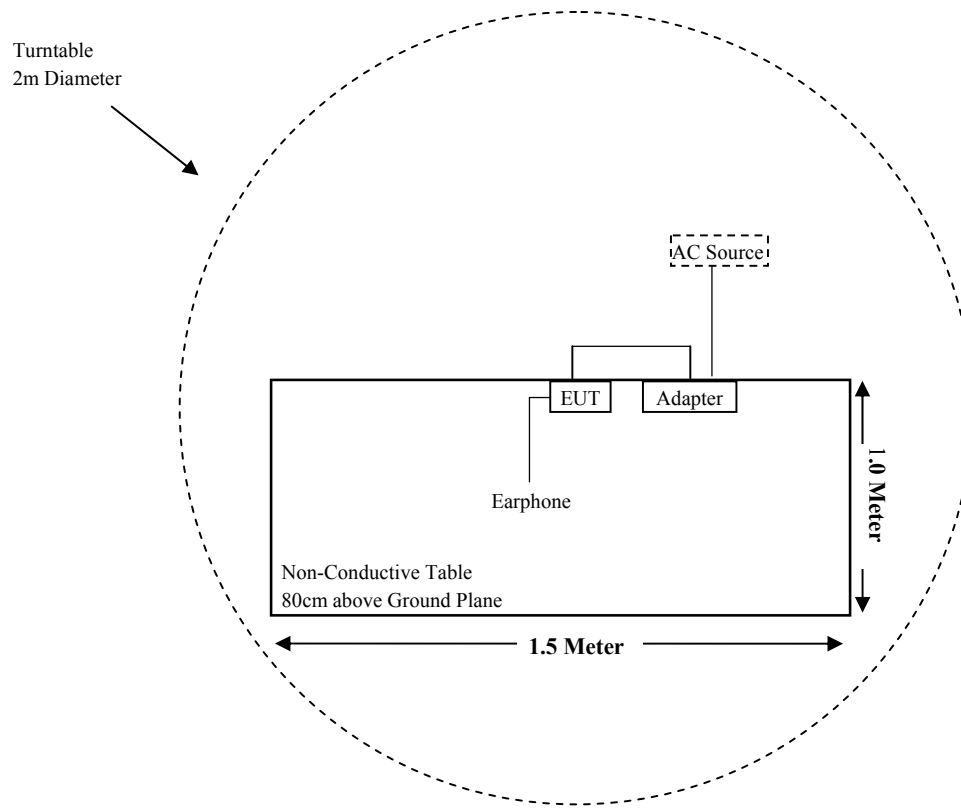
Cable Description	Length (m)	From Port	To
Power Cable	1.0	EUT	Adapter
Power Cable	1.0	Adapter	LISN/AC source

### Block Diagram of Test Setup

For Conducted Emissions:



For Radiated Emissions (Below 30 MHz & Above 30 MHz):



**SUMMARY OF TEST RESULTS**

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.225 §15.209 §15.205	Radiated Emission Test	Compliant
§15.225(e)	Frequency Stability	Compliant
§15.215(c)	20dB Emission Bandwidth Testing	Compliant

## TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
<b>Radiated Emission Test</b>					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2020-11-27	2021-11-26
Sunol Sciences	Hybrid Antenna	JB3	A090314-1	2020-08-05	2023-08-04
Sonoma Instrument	Pre-amplifier	310N	171205	2020-08-14	2021-08-13
ETS-LINDGREN	Loop Antenna	6512	00108100	2019-04-25	2022-04-24
Rohde & Schwarz	Auto Test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-8	008	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2020-08-15	2021-08-14
BACL	Temperature & Humidity Chamber	BTH-150	30023	2019-12-20	2020-12-19
<b>Conducted Emission Test</b>					
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2020-07-28	2021-07-27
Rohde & Schwarz	LISN	ENV216	101115	2020-11-27	2021-11-26
Audix	Test Software	e3	V9	--	--
Rohde & Schwarz	Pulse limiter	ESH3-Z2	100552	2020-08-10	2021-08-09
MICRO-COAX	Coaxial Cable	Cable-15	015	2020-08-15	2021-08-14

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).



## **FCC§15.203 - ANTENNA REQUIREMENT**

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### **Applicable Standard**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

### **Antenna Connected Construction**

The EUT has an FPC antenna for 13.56 MHz which the antenna gain is 0.0 dBi, the antenna was permanently attached, fulfill the requirement of this section, please refer to the EUT photos.

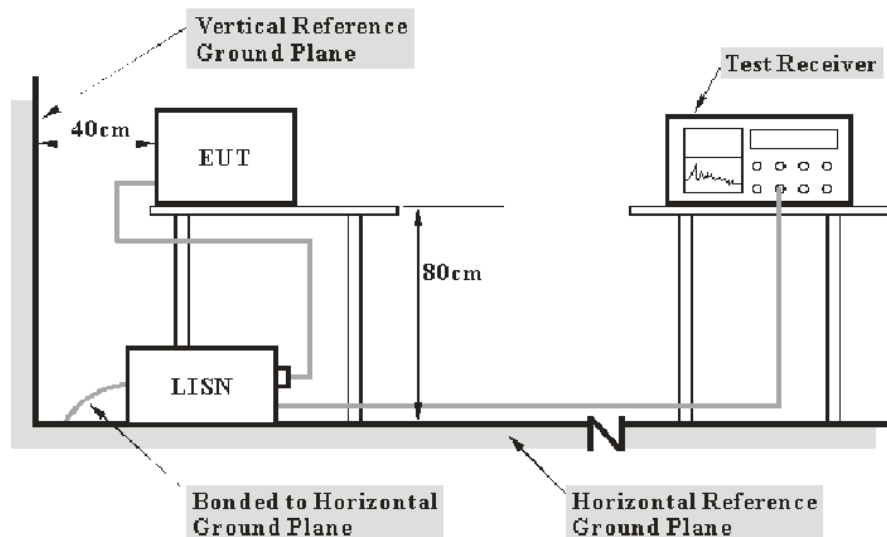
**Result:** Compliant.

## FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC§15.207(a)

### EUT Setup



Note: 1. Support units were connected to second LISN.  
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

### Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

## Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over Limit of 7 dB means the emission is 7 dB above the limit. The equation for over limit calculation is as follows:

$$\text{Over Limit (dB)} = \text{Read level (dB}\mu\text{V)} + \text{Factor (dB)} - \text{Limit (dB}\mu\text{V)}$$

## Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

## Test Data

### Environmental Conditions

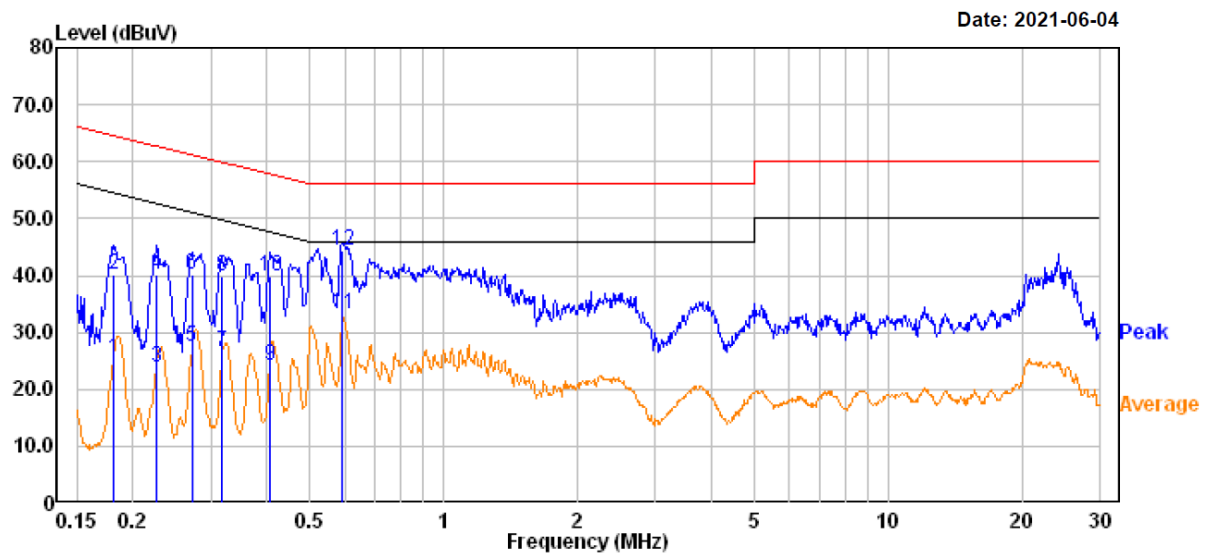
Temperature:	24.7 °C
Relative Humidity:	50 %
ATM Pressure:	101.5 kPa

*The testing was performed by Stone Zhang on 2021-06-04.*

*EUT operation mode: Transmitting*

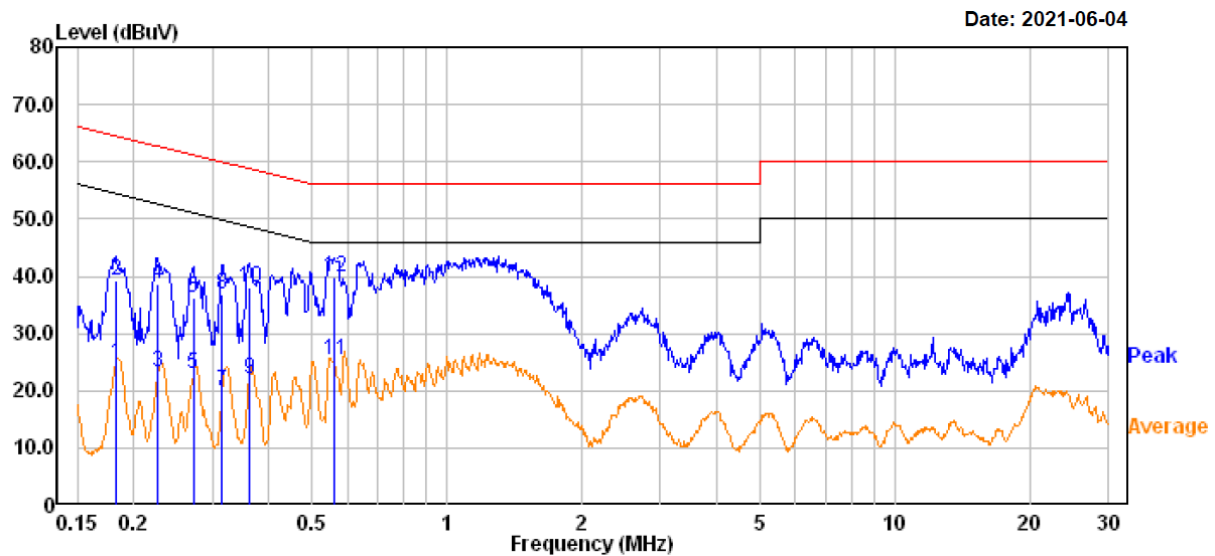
*Note: Adapter1 /2/3/4 are all have been tested, the worst Adapter4 data were recorded in this report.*

## AC 120V/60 Hz, Line



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.180	5.50	19.83	25.33	54.47	-29.14	Average
2	0.180	20.30	19.83	40.13	64.47	-24.34	QP
3	0.226	4.10	19.82	23.92	52.61	-28.69	Average
4	0.226	20.20	19.82	40.02	62.61	-22.59	QP
5	0.271	7.50	19.82	27.32	51.07	-23.75	Average
6	0.271	20.30	19.82	40.12	61.07	-20.95	QP
7	0.318	6.60	19.82	26.42	49.75	-23.33	Average
8	0.318	19.90	19.82	39.72	59.75	-20.03	QP
9	0.406	4.50	19.74	24.24	47.72	-23.48	Average
10	0.406	20.20	19.74	39.94	57.72	-17.78	QP
11	0.594	13.60	19.75	33.35	46.00	-12.65	Average
12	0.594	24.70	19.75	44.45	56.00	-11.55	QP

## AC 120V/60 Hz, Neutral



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.182	4.90	19.83	24.73	54.39	-29.66	Average
2	0.182	19.50	19.83	39.33	64.39	-25.06	QP
3	0.227	3.40	19.82	23.22	52.56	-29.34	Average
4	0.227	18.90	19.82	38.72	62.56	-23.84	QP
5	0.271	3.00	19.82	22.82	51.07	-28.25	Average
6	0.271	16.30	19.82	36.12	61.07	-24.95	QP
7	0.315	0.20	19.82	20.02	49.83	-29.81	Average
8	0.315	16.90	19.82	36.72	59.83	-23.11	QP
9	0.362	2.30	19.79	22.09	48.67	-26.58	Average
10	0.362	18.10	19.79	37.89	58.67	-20.78	QP
11	0.559	5.70	19.75	25.45	46.00	-20.55	Average
12	0.559	20.20	19.75	39.95	56.00	-16.05	QP

## Note:

- 1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)  
 2) Over Limit (dB) = Read level (dBuV) + Factor (dB) - Limit (dBuV)

## FCC§15.225, §15.205 & §15.209 - RADIATED EMISSIONS TEST

### Applicable Standard

As per FCC Part 15.225

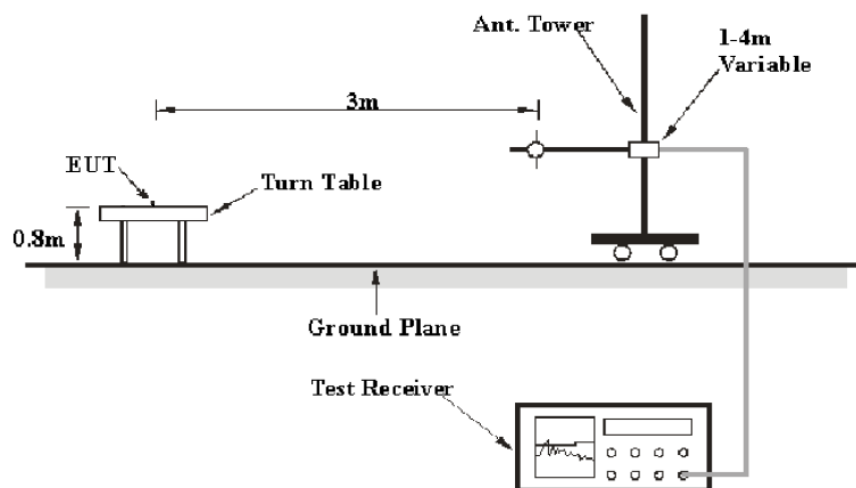
(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

### EUT Setup



The radiated emission tests were performed in the 3-meter chamber a test site, using the setup accordance with the ANSI C63.10. The specification used was the FCC Part Subpart C limits.

The spacing between the peripherals was 10 cm.

## EMI Test Receiver Setup

According to FCC Rules, 47 CFR 15.33, the EUT emissions were investigated up to 1000 MHz.

During the radiated emission test, the EMI test Receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
9 kHz – 150 kHz	200 Hz	1 kHz	/	QP/Average
150 kHz – 30 MHz	9 kHz	30 kHz	/	QP/Average
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP

## Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude (dBμV /m) = Meter Reading (dBμV) + Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

The “**Margin**” column of the following data tables indicates the degree of Compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV /m)

## Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209, 15.205, 15.225.

## Test Data

### Environmental Conditions

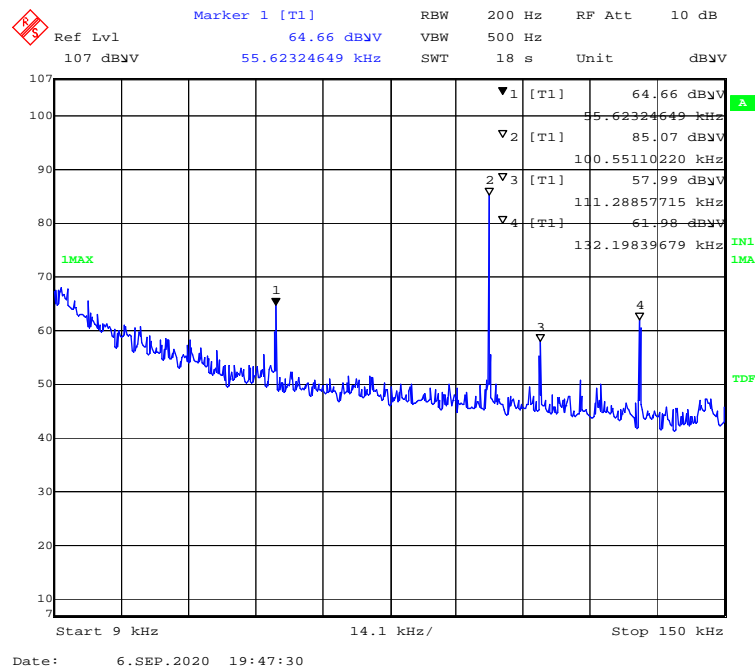
Temperature:	24.0~24.3 °C
Relative Humidity:	50~51 %
ATM Pressure:	101.3~101.7 kPa

The testing was performed by Stone Zhang from 2020-09-06 to 2020-09-08.

Test mode: Transmitting

Note: Both Adapter1/2/3/4 are all have been tested, the worst Adapter4 data were recorded in this report.

1) 9 kHz~150 kHz:

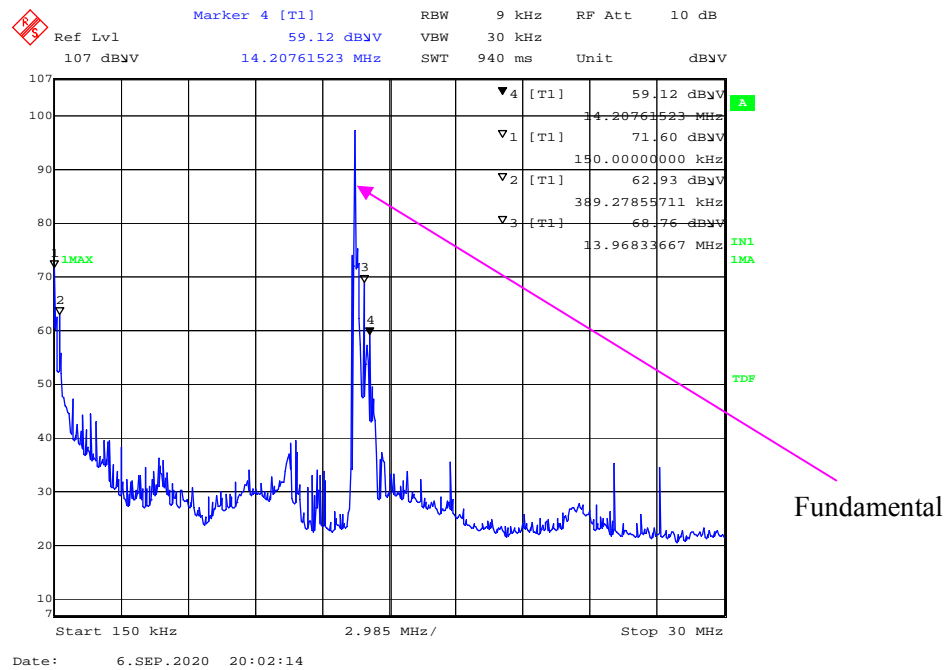


Frequency (kHz)	Corrected Amplitude (dBμV/m)@3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.225/15.209	
				Limit (dBμV/m)@3m	Margin (dB)
55.60	64.66	PK	42.92	112.70	48.04
100.60	85.07	PK	50.30	107.55	22.48
111.30	57.99	PK	50.36	106.67	48.68
132.20	61.90	PK	50.65	105.18	43.28

Note: The average emissions which fall into frequencies 9-90 kHz, 110-490 kHz was not recorded, because the peak emissions are below the average limit.



## 2) 150 kHz~30 MHz:



Frequency (MHz)	Corrected Amplitude (dBμV/m)@3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.225/15.209	
				Limit (dBμV/m)@3m	Margin (dB)
0.39	62.93	PK	26.14	104.08	32.48
13.56	95.40	PK	6.12	124.00	28.60
13.97	68.76	PK	5.59	80.50	11.74
14.21	59.12	PK	6.59	69.54	10.42

Note: The average emissions which fall into frequencies 9-90 kHz, 110-490 kHz was not recorded, because the peak emissions are below the average limit.

A screenshot of a spectrum analyzer interface. The main display shows a blue signal trace on a grid. The vertical axis (Y-axis) represents power in dBV, ranging from 7 to 107. The horizontal axis (X-axis) represents frequency in MHz, with markers at 13.11 MHz, 30 kHz, and 13.41 MHz. A prominent peak in the signal is labeled with a downward arrow and the value 72.46 dBV. The peak is also labeled with its frequency, 13.35048096 MHz. The signal trace is labeled '1MAX' in green. The background is black, and the grid lines are white. At the top, there is a red 'A' icon in a square. Below the icon, the text 'Ref Lvl' is followed by '107 dBV'. To the right of this, 'Marker 1 [T1]' is followed by '72.46 dBV'. Further right, 'RBW' is '9 kHz', 'VBW' is '30 kHz', and 'SWT' is '17 ms'. At the top right, 'RF Att' is '10 dB' and 'Unit' is 'dByV'. At the bottom, the date and time '8.SEP.2020 19:16:09' are displayed.

Parameter	Value
Ref Lvl	107 dBV
Marker 1 [T1]	72.46 dBV
RBW	9 kHz
VBW	30 kHz
SWT	17 ms
RF Att	10 dB
Unit	dByV

Start 13.11 MHz      30 kHz/      Stop 13.41 MHz

Date: 8.SEP.2020 19:16:09

Marker 1 [T1]  
 Ref Lvl 83.55 dBV  
 107 dBV 13.5530000 MHz

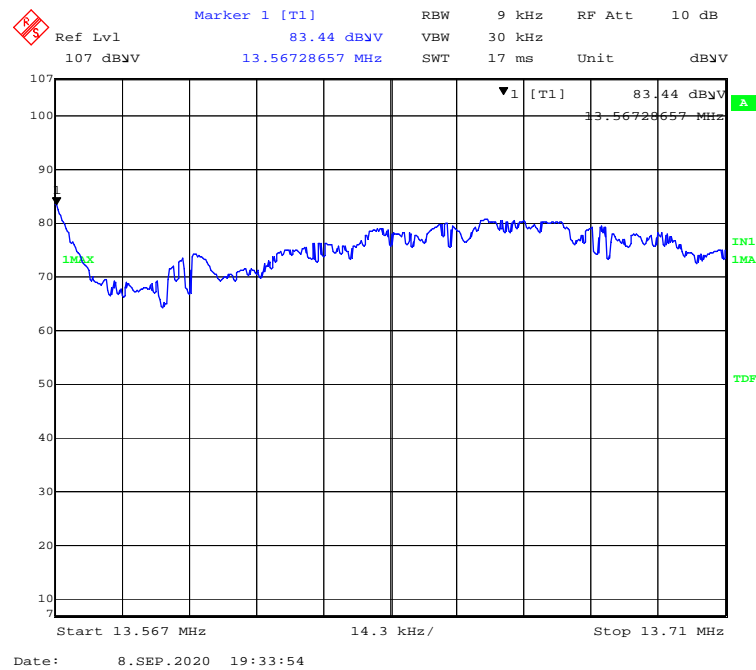
RBW 9 kHz RF Att 10 dB  
 VBW 30 kHz  
 SWT 17 ms Unit dBV

Start 13.41 MHz 14.3 kHz/ Stop 13.553 MHz

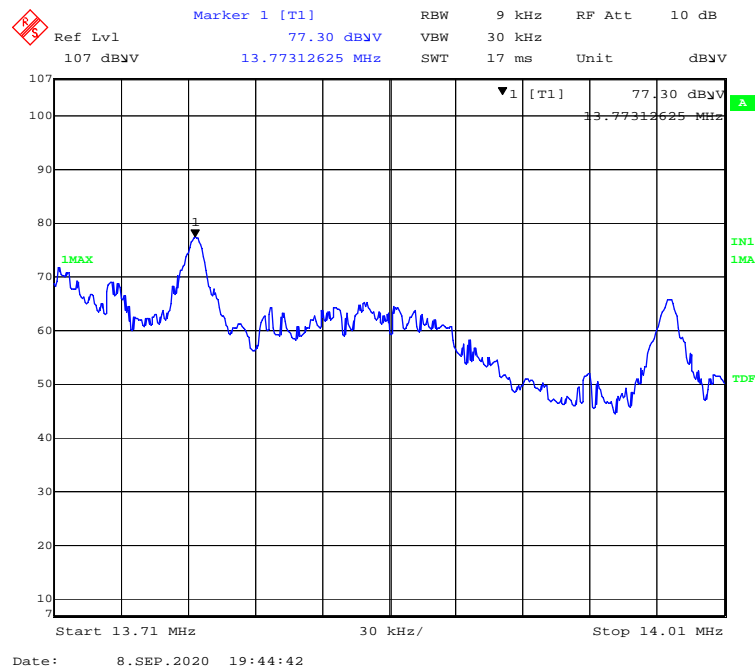
1 [T1] 83.55 dBV  
 13.5530000 MHz

1MAX IN1 1MA TDF

13.567 MHz~13.710 MHz:

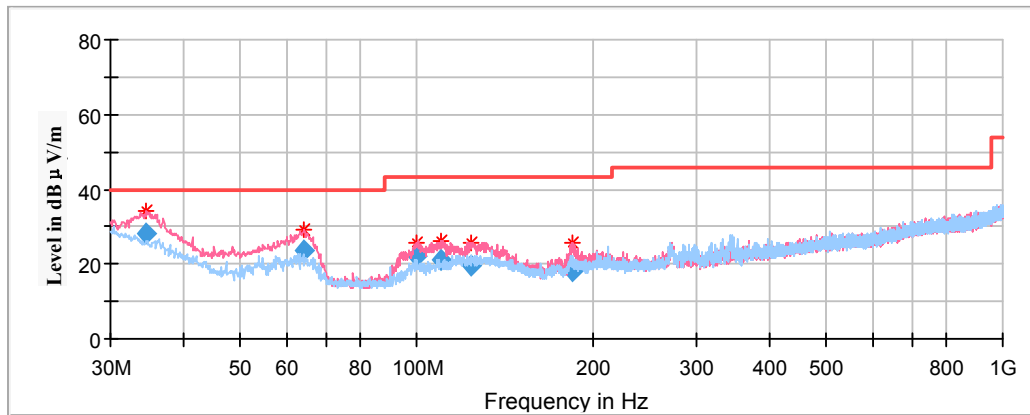


13.710 MHz~14.010 MHz:



Frequency (MHz)	Corrected Amplitude (dBμV/m)@3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	FCC Part 15.225/15.209	
				Limit (dBμV/m)@3m	Margin (dB)
13.350	72.46	PK	6.13	80.50	8.04
13.553	83.55	PK	6.12	90.50	6.95
13.567	83.44	PK	6.12	90.50	7.06
13.773	77.30	PK	6.10	80.50	3.20

## 4) 30 MHz ~1 GHz:



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dBμV/m)	Height (cm)	Polar (H/V)				
34.606000	27.99	100.0	V	219.0	-7.3	40.00	12.01
64.315750	23.55	100.0	V	252.0	-15.3	40.00	16.45
99.847785	21.99	100.0	V	83.0	-14.7	43.50	21.51
109.780000	21.08	100.0	V	121.0	-12.8	43.50	22.42
123.726250	19.63	100.0	V	149.0	-11.0	43.50	23.87
184.712400	18.13	100.0	V	307.0	-13.0	43.50	25.37

**Note:**

1) Factor (dB) = Antenna Factor (dB/m) + Cable Loss (dB) + Amplifier Gain (dB)

2) Over Limit (dB) = Read level (dBμV) + Factor (dB) - Limit (dBμV)

## **FCC§15.225(e) - FREQUENCY STABILITY**

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### **Applicable Standard**

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of the operating frequency over a temperature variation of  $-20$  degrees to  $+50$  degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

### **Test Procedure**

a) Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies shown in 5.6.

b) Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary.  
NOTE—An instrument that has an adequate level of accuracy as specified by the procuring or regulatory agency is the recommended measuring instrument.

c) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).

d) Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.

e) Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.

f) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.

g) Measure the frequency at each of frequencies specified in 5.6.

h) Switch OFF the EUT but do not switch OFF the oscillator heater.

i) Lower the chamber temperature by not more than  $10^{\circ}\text{C}$ , and allow the temperature inside the chamber to stabilize.

j) Repeat step f) through step i) down to the lowest specified temperature.

**Test Data****Environmental Conditions**

<b>Temperature:</b>	24.7 °C
<b>Relative Humidity:</b>	49 %
<b>ATM Pressure:</b>	102.3 kPa

The testing was performed by Stone Zhang on 2020-12-04.

Test Mode: Transmitting.

Test Result: Compliant

<b>F<sub>0</sub>=13.56MHz</b>				
<b>Power Supply(V<sub>DC</sub>)</b>	<b>Temperature (°C)</b>	<b>Measured Frequency (MHz)</b>	<b>Frequency Error (%)</b>	<b>Part 15.225 Limit</b>
3.85	-30	13.55982798	-0.00127	±0.01%
	-20	13.55983984	-0.00118	±0.01%
	-10	13.55984132	-0.00117	±0.01%
	0	13.55984569	-0.00114	±0.01%
	10	13.55983546	-0.00121	±0.01%
	20	13.55985874	-0.00104	±0.01%
	30	13.55984978	-0.00111	±0.01%
	40	13.55984654	-0.00113	±0.01%
	50	13.55984523	-0.00114	±0.01%
3.47	20	13.55982798	-0.00127	±0.01%
4.24	20	13.55983984	-0.00118	±0.01%

## **§15.215(c) - 20dB EMISSION BANDWIDTH TESTING**

### **Requirement**

Per 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

### **Test Procedure**

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

### **Test Data**

#### **Environmental Conditions**

<b>Temperature:</b>	24.9 °C
<b>Relative Humidity:</b>	49 %
<b>ATM Pressure:</b>	102.3 kPa

*The testing was performed by Stone Zhang on 2020-09-06.*

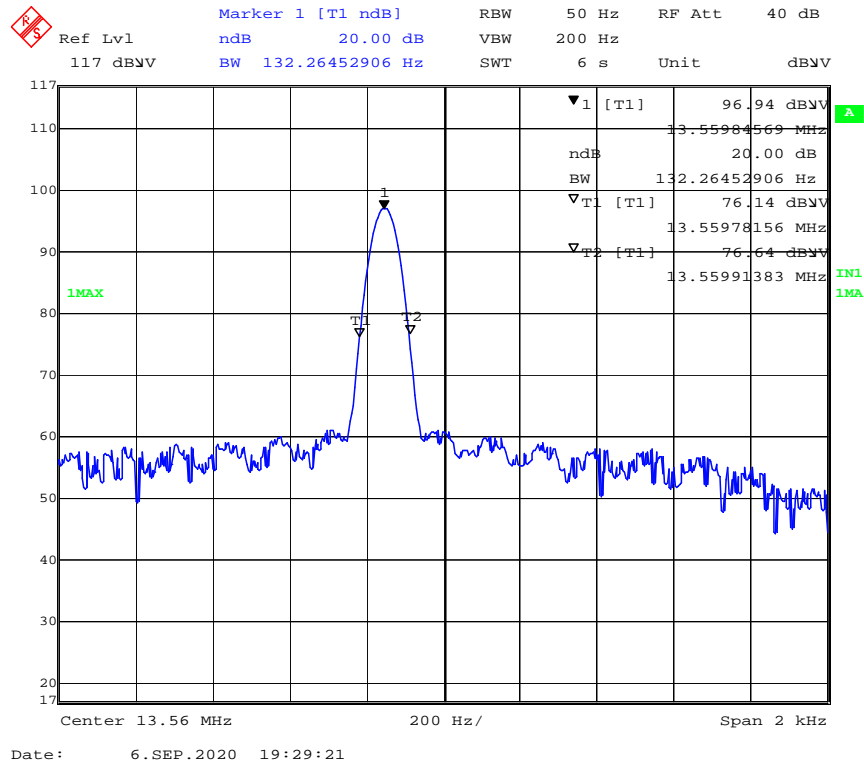
*Test Mode: Transmitting*

*Test Result: Compliant*



Frequency (MHz)	20 dB Bandwidth (kHz)
13.56	0.132

## 20 dB Emission Bandwidth-13.56MHz



### **Declarations**

1: BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '\*'. Customer model name, addresses, names, trademarks etc. are not considered data.

2: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

3: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

4: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

5: This report cannot be reproduced except in full, without prior written approval of the Company.

6: This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

**\*\*\*\*\* END OF REPORT \*\*\*\*\***