

APPLICATION FOR VERIFICATION
On Behalf of
Recordex USA, Inc.

Interactive Flat Panel
Model No.: ST-700

FCC ID: 2ADKE-ST-700B

Prepared for : Recordex USA, Inc.
Address : 10-50 46th Avenue, Long Island City, NY 11101

Prepared by : Accurate Technology Co., Ltd.
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Report No. : ATE20150571
Date of Test : March 26, 2015
Date of Report : April 1, 2015

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Test Report Declaration

Applicant : Recordex USA, Inc.
Manufacturer : Recordex USA, Inc.
Product : Interactive Flat Panel
(A) Model No.: ST-700
(B) Rating: AC 100-240V; 50/60Hz
(C) Trade Mark: RECORDEX

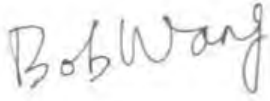
Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class B & ANSI C63.4 : 2014

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 Class B limits both radiated and conducted emissions. 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 : March 26, 2015
Date of Report : April 1, 2015

Prepared by : 
(Bob.Wang, Engineer)

Approved & Authorized Signer : 
(Sean Liu, Manager)

1. TEST RESULTS SUMMARY

Test Items	Test Standard	Test Results
Power Line Conducted Emission	FCC Part 15 Subpart B	Pass
Radiated Emission	FCC Part 15 Subpart B	Pass

2. GENERAL INFORMATION

2.1. Product of Device (EUT)

Product : Interactive Flat Panel

Model No. : ST-700

Rating : AC 100-240V; 50/60Hz

Trade Mark : RECORDEX

Applicant : Recordex USA, Inc.

Address : 10-50 46th Avenue, Long Island City, NY 11101

Manufacturer : Recordex USA, Inc.

Address : 10-50 46th Avenue, Long Island City, NY 11101

Date of sample received : March 25, 2015

Date of Test : March 26, 2015

2.2. Accessory and Auxiliary Equipment

N/A

2.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen, May 10, 2004

Listed by FCC
The Registration Number is 253065

Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-1

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&D, Changyuan New Material Port, Keyuan Rd., Science & Industry Park, Nanshan District, Shenzhen 518057, P.R. China

2.4. Measurement Uncertainty

Conducted emission expanded uncertainty : U=2.23dB, k=2

Power disturbance expanded uncertainty : U=2.92dB, k=2

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

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

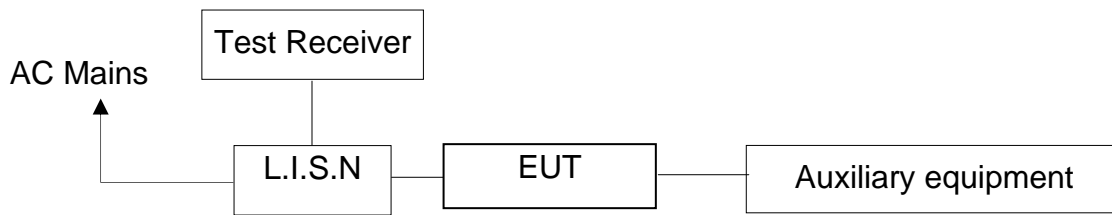
Radiated emission expanded uncertainty : U=4.06dB, k=2
(Above 1GHz)

3. POWER LINE CONDUCTED MEASUREMENT

3.1. For Power Line Conducted Emission

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan.10, 2015	1 Year
2.	Test Receiver	Rohde & Schwarz	ESPI	100396/003	Jan.10, 2015	1 Year
3.	Test Receiver	Rohde & Schwarz	ESPI	101526/003	Jan.10, 2015	1 Year
4.	Test Receiver	Rohde & Schwarz	ESR	101817	Jan.10, 2015	1 Year
5.	L.I.S.N.	Schwarzbeck	NLSK8126	8126431	Jan.10, 2015	1 Year
6.	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100305	Jan.10, 2015	1 Year
7.	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100310	Jan.10, 2015	1 Year
8.	L.I.S.N.	Rohde & Schwarz	ESH3-Z6	100132	Jan.10, 2015	1 Year
9.	L.I.S.N.	Rohde & Schwarz	ESH3-Z6	100979	Jan.10, 2015	1 Year
10.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100305	Jan.10, 2015	1 Year
11.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100312	Jan.10, 2015	1 Year
12.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	Jan.10, 2015	1 Year
13.	50Ω Coaxial Switch	Anritsu Corp	MP59B	620028393 6	Jan.10, 2015	1 Year
14.	50Ω Coaxial Switch	Anritsu Corp	MP59B	620028393 3	Jan.10, 2015	1 Year
15.	50Ω Coaxial Switch	Anritsu Corp	MP59B	620050647 4	Jan.10, 2015	1 Year
16.	VOLTAGE PROBE	Schwarzbeck	TK9416	N/A	Jan.10, 2015	1 Year
17.	RF CURRENT PROBE	Rohde & Schwarz	EZ-17	100048	Jan.10, 2015	1 Year
18.	8-Wire Impedance Stabilisation Network	Schwarzbeck	CAT5 8158	8158-0035	Jan.10, 2015	1 Year
19.	RF Coaxial Cable	SUHNER	N-2m	No.2	Jan.10, 2015	1 Year
20.	RF Coaxial Cable	SUHNER	N-2m	No.3	Jan.10, 2015	1 Year
21.	RF Coaxial Cable	SUHNER	N-2m	No.14	Jan.10, 2015	1 Year

3.2. Block Diagram of Test Setup



(EUT: Interactive Flat Panel)

3.3. Power Line Conducted Emission Measurement Limits (Class B)

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15—0.50	66—56*	56—46*
0.50—5.00	56	46
5.00—30.0	60	50

- Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

3.4.1. Interactive Flat Panel (EUT)

Model Number: ST-700

Serial Number: N/A

Manufacturer: Recordex USA, Inc.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipment.

3.5.3. Let the EUT work in test mode (AV, USB, HDMI, VGA, WAN) and measure it.

3.6. 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 DC 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 : 2014 on Conducted Emission Measurement.

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

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

3.7. Power Line Conducted Emission Measurement Results

PASS.

Test Mode: USB								
MEASUREMENT RESULT: "XH26001_fin"								
2015-3-26 8:45								
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
0.178000	49.40	10.5	65	15.2	QP	L1	GND	
0.440000	45.80	11.4	57	11.3	QP	L1	GND	
0.702000	45.30	11.5	56	10.7	QP	L1	GND	
0.956000	41.90	11.6	56	14.1	QP	L1	GND	
MEASUREMENT RESULT: "XH26001_fin2"								
2015-3-26 8:45								
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
0.174000	43.50	10.5	55	11.3	AV	L1	GND	
0.440000	39.30	11.4	47	7.8	AV	L1	GND	
0.612000	37.40	11.5	46	8.6	AV	L1	GND	
MEASUREMENT RESULT: "XH26002_fin"								
2015-3-26 8:48								
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
0.614000	44.90	11.5	56	11.1	QP	N	GND	
0.700000	44.10	11.5	56	11.9	QP	N	GND	
0.800000	42.90	11.6	56	13.1	QP	N	GND	
MEASUREMENT RESULT: "XH26002_fin2"								
2015-3-26 8:48								
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
0.440000	38.20	11.4	47	8.9	AV	N	GND	
0.614000	36.80	11.5	46	9.2	AV	N	GND	
0.700000	35.40	11.5	46	10.6	AV	N	GND	

Test Mode: AV

MEASUREMENT RESULT: "XH26003_fin"

2015-3-26 8:51

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.700000	43.20	11.5	56	12.8	QP	N	GND
0.800000	43.00	11.6	56	13.0	QP	N	GND
0.970000	43.00	11.6	56	13.0	QP	N	GND

MEASUREMENT RESULT: "XH26003_fin2"

2015-3-26 8:51

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.442000	38.00	11.4	47	9.0	AV	N	GND
0.530000	36.50	11.5	46	9.5	AV	N	GND
0.618000	36.50	11.5	46	9.5	AV	N	GND

MEASUREMENT RESULT: "XH26004_fin"

2015-3-26 8:53

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.808000	43.60	11.6	56	12.4	QP	L1	GND
0.978000	43.40	11.6	56	12.6	QP	L1	GND
1.932000	41.70	11.7	56	14.3	QP	L1	GND

MEASUREMENT RESULT: "XH26004_fin2"

2015-3-26 8:53

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.440000	38.90	11.4	47	8.2	AV	L1	GND
0.528000	38.00	11.5	46	8.0	AV	L1	GND
0.616000	37.60	11.5	46	8.4	AV	L1	GND

Test Mode: HDMI								
MEASUREMENT RESULT: "XH26005_fin"								
2015-3-26 8:57								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBμV	dB	dBμV	dB				
0.792000	45.20	11.6	56	10.8	QP	L1	GND	
0.964000	44.10	11.6	56	11.9	QP	L1	GND	
4.853000	44.00	11.8	56	12.0	QP	L1	GND	
MEASUREMENT RESULT: "XH26005_fin2"								
2015-3-26 8:57								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBμV	dB	dBμV	dB				
0.442000	38.90	11.4	47	8.1	AV	L1	GND	
4.821500	40.60	11.8	46	5.4	AV	L1	GND	
5.433500	41.40	11.8	50	8.6	AV	L1	GND	
MEASUREMENT RESULT: "XH26006_fin"								
2015-3-26 8:59								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBμV	dB	dBμV	dB				
0.800000	43.20	11.6	56	12.8	QP	N	GND	
4.880000	44.80	11.8	56	11.2	QP	N	GND	
6.626000	46.50	11.8	60	13.5	QP	N	GND	
MEASUREMENT RESULT: "XH26006_fin2"								
2015-3-26 8:59								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBμV	dB	dBμV	dB				
0.440000	38.20	11.4	47	8.9	AV	N	GND	
4.988000	38.50	11.8	46	7.5	AV	N	GND	
5.897000	40.20	11.8	50	9.8	AV	N	GND	

Test Mode: VGA								
MEASUREMENT RESULT: "XH26009_fin"								
2015-3-26 9:10								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBμV	dB	dBμV	dB				
0.610000	44.40	11.5	56	11.6	QP	N	GND	
4.997000	50.50	11.8	56	5.5	QP	N	GND	
5.640500	51.20	11.8	60	8.8	QP	N	GND	
MEASUREMENT RESULT: "XH26009_fin2"								
2015-3-26 9:10								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBμV	dB	dBμV	dB				
0.612000	36.60	11.5	46	9.4	AV	N	GND	
4.997000	43.10	11.8	46	2.9	AV	N	GND	
10.595000	47.20	11.9	50	2.8	AV	N	GND	
MEASUREMENT RESULT: "XH26010_fin"								
2015-3-26 9:13								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBμV	dB	dBμV	dB				
0.610000	45.10	11.5	56	10.9	QP	L1	GND	
4.979000	50.50	11.8	56	5.5	QP	L1	GND	
10.599500	51.90	11.9	60	8.1	QP	L1	GND	
MEASUREMENT RESULT: "XH26010_fin2"								
2015-3-26 9:13								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBμV	dB	dBμV	dB				
0.612000	37.50	11.5	46	8.5	AV	L1	GND	
4.979000	42.40	11.8	46	3.6	AV	L1	GND	
10.595000	47.50	11.9	50	2.5	AV	L1	GND	

Test Mode: WAN IN								
MEASUREMENT RESULT: "XH26011_fin"								
2015-3-26 9:15								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
0.802000	43.30	11.6	56	12.7	QP	L1	GND	
4.992500	48.50	11.8	56	7.5	QP	L1	GND	
5.267000	49.40	11.8	60	10.6	QP	L1	GND	
MEASUREMENT RESULT: "XH26011_fin2"								
2015-3-26 9:15								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
0.530000	37.50	11.5	46	8.5	AV	L1	GND	
4.992500	40.90	11.8	46	5.1	AV	L1	GND	
5.343500	41.90	11.8	50	8.1	AV	L1	GND	
MEASUREMENT RESULT: "XH26012_fin"								
2015-3-26 9:18								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
0.706000	43.90	11.5	56	12.1	QP	N	GND	
4.853000	48.60	11.8	56	7.4	QP	N	GND	
5.168000	49.20	11.8	60	10.8	QP	N	GND	
MEASUREMENT RESULT: "XH26012_fin2"								
2015-3-26 9:18								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
0.706000	35.40	11.5	46	10.6	AV	N	GND	
4.943000	39.40	11.8	46	6.6	AV	N	GND	
5.163500	41.00	11.8	50	9.0	AV	N	GND	
5.240000	41.90	11.8	50	8.1	AV	N	GND	

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

The spectral diagrams are shown in the following pages.

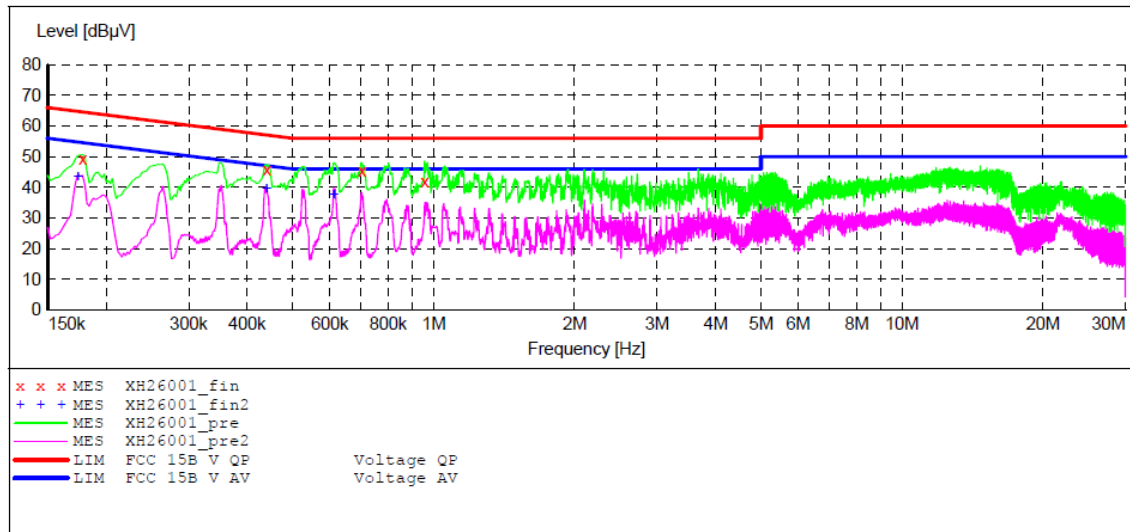
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Interactive Flat Panel M/N:ST-700
 Manufacturer: Recorderx
 Operating Condition: USB
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20150571
 Start of Test: 2015-3-26 / 8:43:08

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. LISN(ESH3-Z5)
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz
 Average



MEASUREMENT RESULT: "XH26001_fin"

2015-3-26 8:45

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.178000	49.40	10.5	65	15.2	QP	L1	GND
0.440000	45.80	11.4	57	11.3	QP	L1	GND
0.702000	45.30	11.5	56	10.7	QP	L1	GND
0.956000	41.90	11.6	56	14.1	QP	L1	GND

MEASUREMENT RESULT: "XH26001_fin2"

2015-3-26 8:45

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.174000	43.50	10.5	55	11.3	AV	L1	GND
0.440000	39.30	11.4	47	7.8	AV	L1	GND
0.612000	37.40	11.5	46	8.6	AV	L1	GND

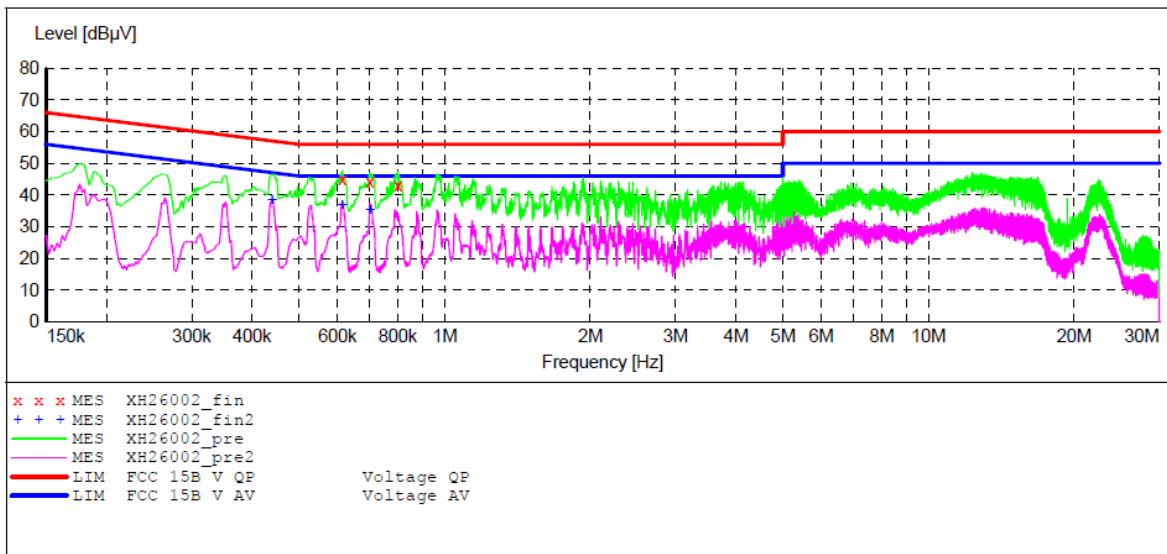
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Interactive Flat Panel M/N:ST-700
 Manufacturer: Recorderx
 Operating Condition: USB
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20150571
 Start of Test: 2015-3-26 / 8:46:35

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 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "XH26002_fin"

2015-3-26 8:48

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.614000	44.90	11.5	56	11.1	QP	N	GND
0.700000	44.10	11.5	56	11.9	QP	N	GND
0.800000	42.90	11.6	56	13.1	QP	N	GND

MEASUREMENT RESULT: "XH26002_fin2"

2015-3-26 8:48

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.440000	38.20	11.4	47	8.9	AV	N	GND
0.614000	36.80	11.5	46	9.2	AV	N	GND
0.700000	35.40	11.5	46	10.6	AV	N	GND

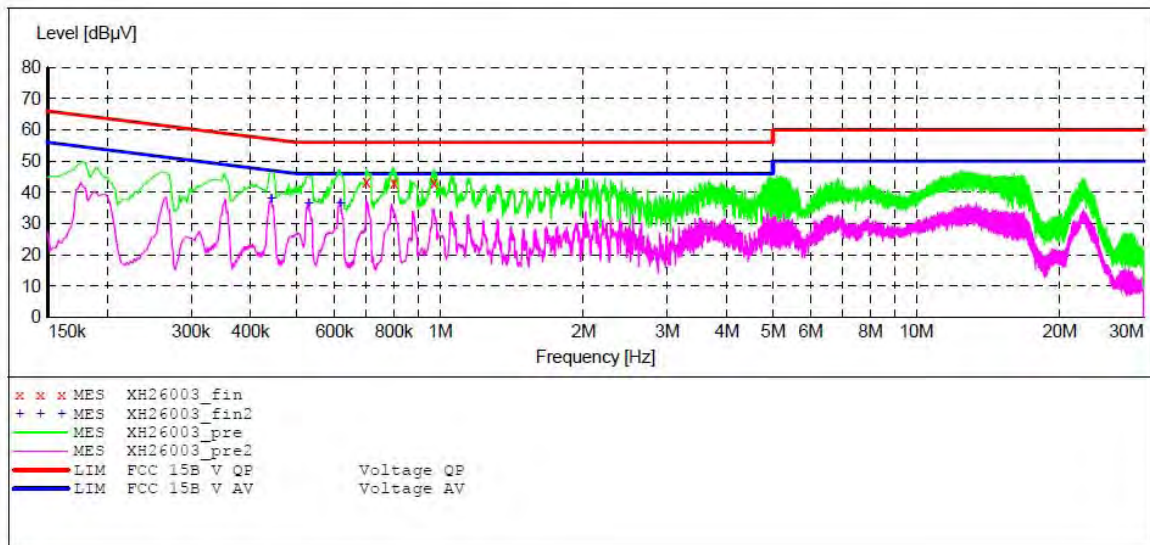
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Interactive Flat Panel M/N:ST-700
 Manufacturer: Recorderx
 Operating Condition: AV
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20150571
 Start of Test: 2015-3-26 / 8:49:45

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 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "XH26003_fin"

2015-3-26 8:51

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.700000	43.20	11.5	56	12.8	QP	N	GND
0.800000	43.00	11.6	56	13.0	QP	N	GND
0.970000	43.00	11.6	56	13.0	QP	N	GND

MEASUREMENT RESULT: "XH26003_fin2"

2015-3-26 8:51

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.442000	38.00	11.4	47	9.0	AV	N	GND
0.530000	36.50	11.5	46	9.5	AV	N	GND
0.618000	36.50	11.5	46	9.5	AV	N	GND

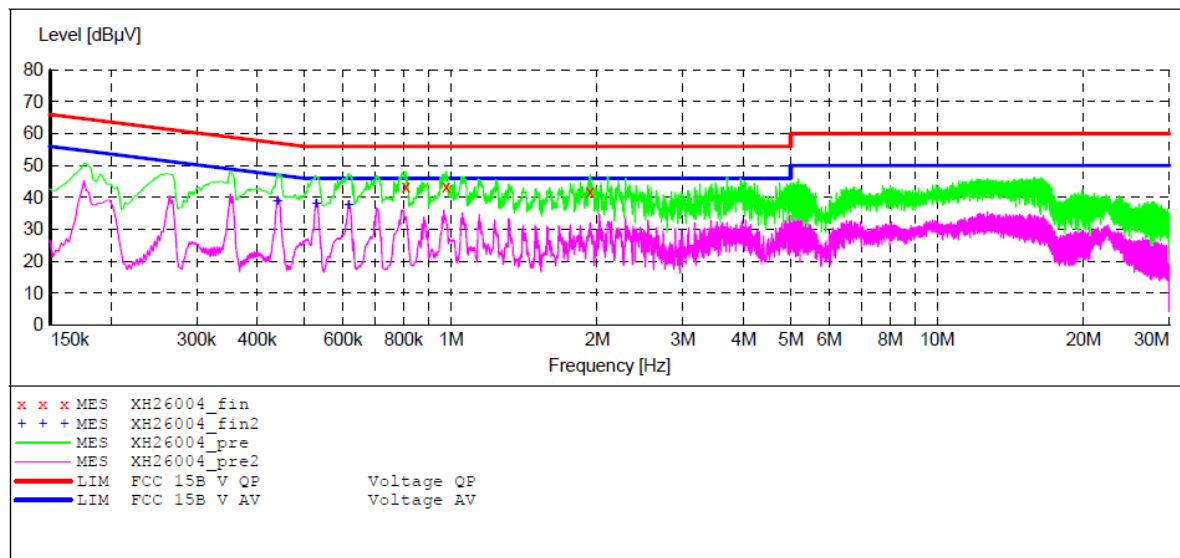
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Interactive Flat Panel M/N:ST-700
 Manufacturer: Recordex
 Operating Condition: AV
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20150571
 Start of Test: 2015-3-26 / 8:52:03

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 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "XH26004_fin"

2015-3-26 8:53

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.808000	43.60	11.6	56	12.4	QP	L1	GND
0.978000	43.40	11.6	56	12.6	QP	L1	GND
1.932000	41.70	11.7	56	14.3	QP	L1	GND

MEASUREMENT RESULT: "XH26004_fin2"

2015-3-26 8:53

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.440000	38.90	11.4	47	8.2	AV	L1	GND
0.528000	38.00	11.5	46	8.0	AV	L1	GND
0.616000	37.60	11.5	46	8.4	AV	L1	GND

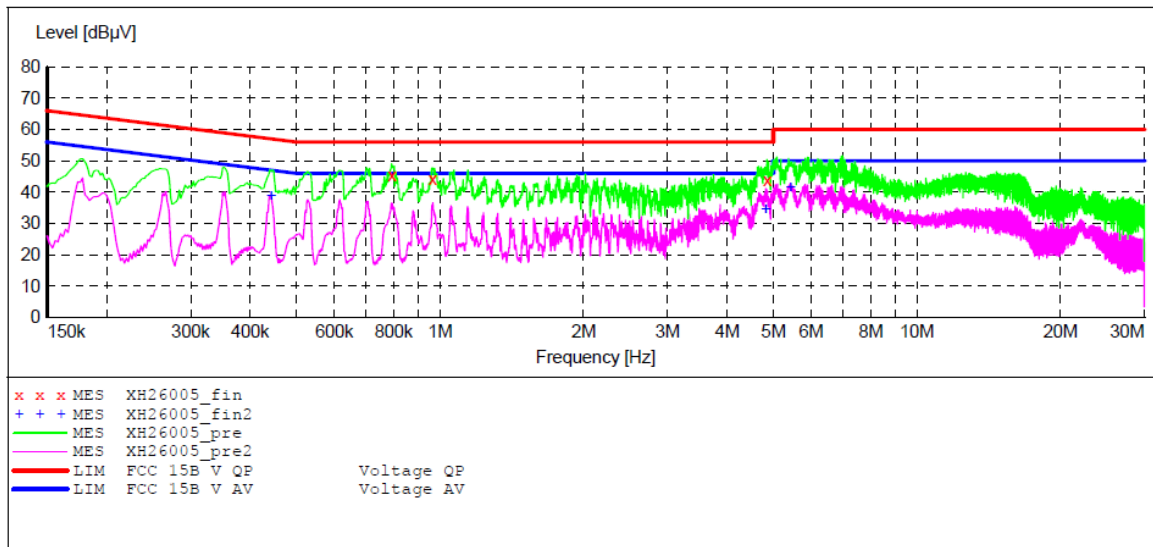
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Interactive Flat Panel M/N:ST-700
 Manufacturer: Recordex
 Operating Condition: HDMI
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20150571
 Start of Test: 2015-3-26 / 8:55:21

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 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "XH26005_fin"

2015-3-26 8:57

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.792000	45.20	11.6	56	10.8	QP	L1	GND
0.964000	44.10	11.6	56	11.9	QP	L1	GND
4.853000	44.00	11.8	56	12.0	QP	L1	GND

MEASUREMENT RESULT: "XH26005_fin2"

2015-3-26 8:57

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.442000	38.90	11.4	47	8.1	AV	L1	GND
4.821500	40.60	11.8	46	5.4	AV	L1	GND
5.433500	41.40	11.8	50	8.6	AV	L1	GND

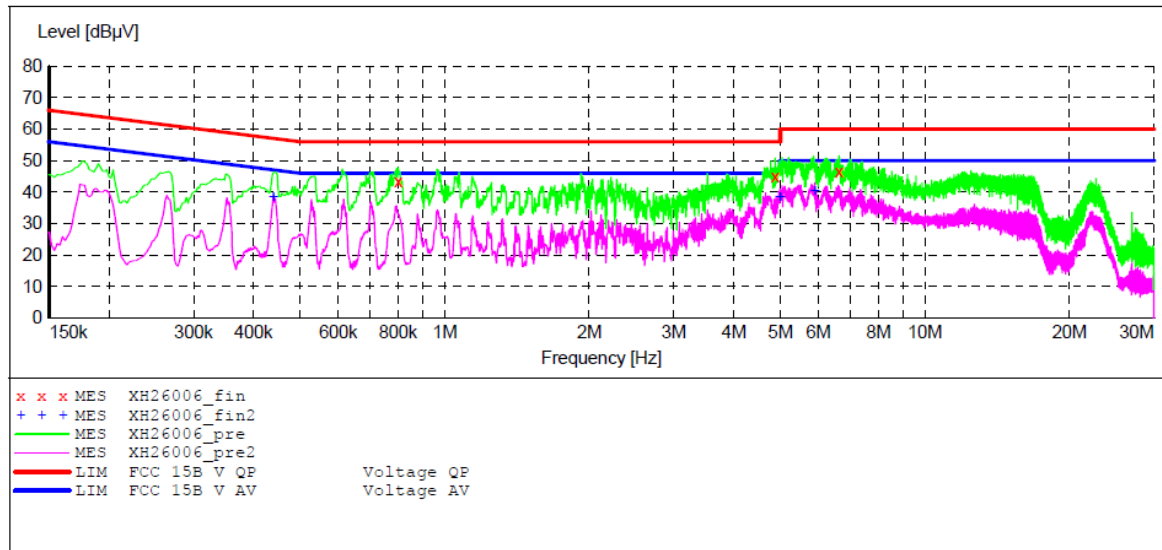
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Interactive Flat Panel M/N:ST-700
 Manufacturer: Recorderx
 Operating Condition: HDMI
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20150571
 Start of Test: 2015-3-26 / 8:57:33

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 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "XH26006_fin"

2015-3-26 8:59

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.800000	43.20	11.6	56	12.8	QP	N	GND
4.880000	44.80	11.8	56	11.2	QP	N	GND
6.626000	46.50	11.8	60	13.5	QP	N	GND

MEASUREMENT RESULT: "XH26006_fin2"

2015-3-26 8:59

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.440000	38.20	11.4	47	8.9	AV	N	GND
4.988000	38.50	11.8	46	7.5	AV	N	GND
5.897000	40.20	11.8	50	9.8	AV	N	GND

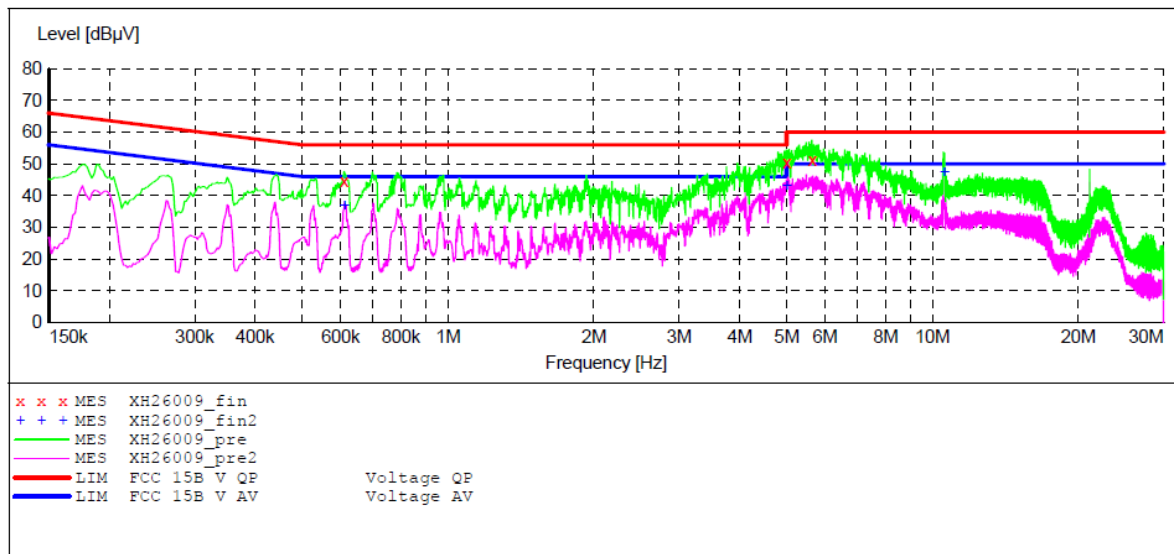
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Interactive Flat Panel M/N:ST-700
 Manufacturer: Recordex
 Operating Condition: VGA
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20150571
 Start of Test: 2015-3-26 / 9:06:26

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 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "XH26009_fin"

2015-3-26 9:10

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.610000	44.40	11.5	56	11.6	QP	N	GND
4.997000	50.50	11.8	56	5.5	QP	N	GND
5.640500	51.20	11.8	60	8.8	QP	N	GND

MEASUREMENT RESULT: "XH26009_fin2"

2015-3-26 9:10

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.612000	36.60	11.5	46	9.4	AV	N	GND
4.997000	43.10	11.8	46	2.9	AV	N	GND
10.595000	47.20	11.9	50	2.8	AV	N	GND

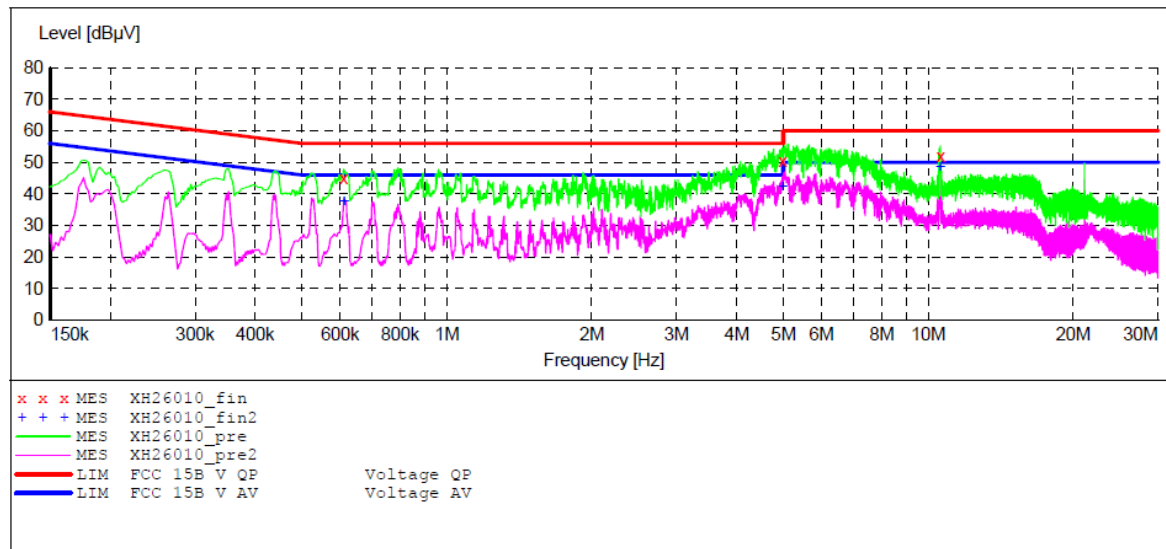
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Interactive Flat Panel M/N:ST-700
 Manufacturer: Recordex
 Operating Condition: VGA
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20150571
 Start of Test: 2015-3-26 / 9:10:51

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 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "XH26010_fin"

2015-3-26 9:13

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.610000	45.10	11.5	56	10.9	QP	L1	GND
4.979000	50.50	11.8	56	5.5	QP	L1	GND
10.599500	51.90	11.9	60	8.1	QP	L1	GND

MEASUREMENT RESULT: "XH26010_fin2"

2015-3-26 9:13

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.612000	37.50	11.5	46	8.5	AV	L1	GND
4.979000	42.40	11.8	46	3.6	AV	L1	GND
10.595000	47.50	11.9	50	2.5	AV	L1	GND

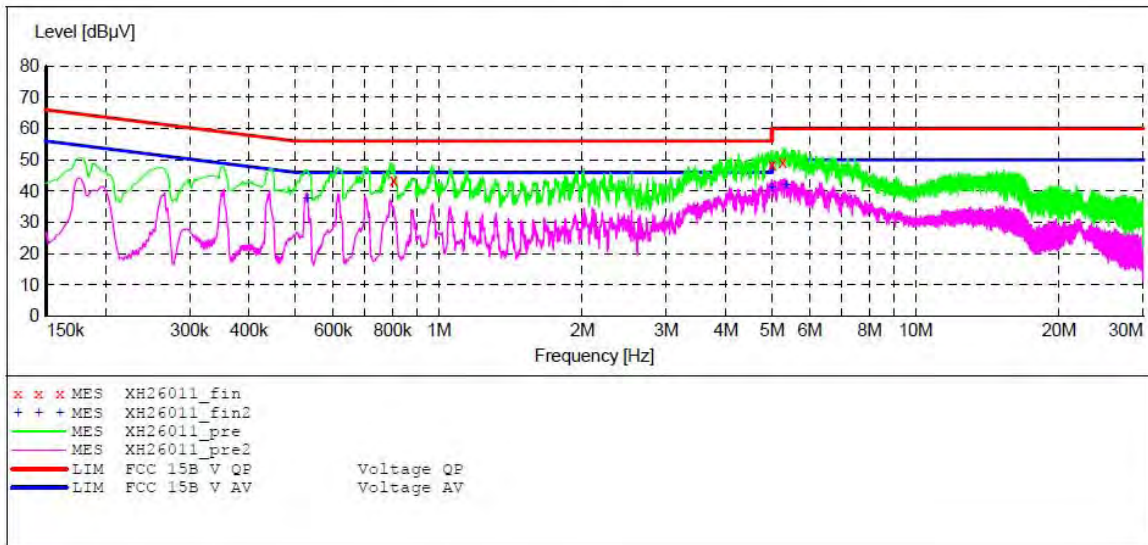
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Interactive Flat Panel M/N:ST-700
 Manufacturer: Recordex
 Operating Condition: WAN IN
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20150571
 Start of Test: 2015-3-26 / 9:14:01

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 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "XH26011_fin"

2015-3-26 9:15

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.802000	43.30	11.6	56	12.7	QP	L1	GND
4.992500	48.50	11.8	56	7.5	QP	L1	GND
5.267000	49.40	11.8	60	10.6	QP	L1	GND

MEASUREMENT RESULT: "XH26011_fin2"

2015-3-26 9:15

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.530000	37.50	11.5	46	8.5	AV	L1	GND
4.992500	40.90	11.8	46	5.1	AV	L1	GND
5.343500	41.90	11.8	50	8.1	AV	L1	GND

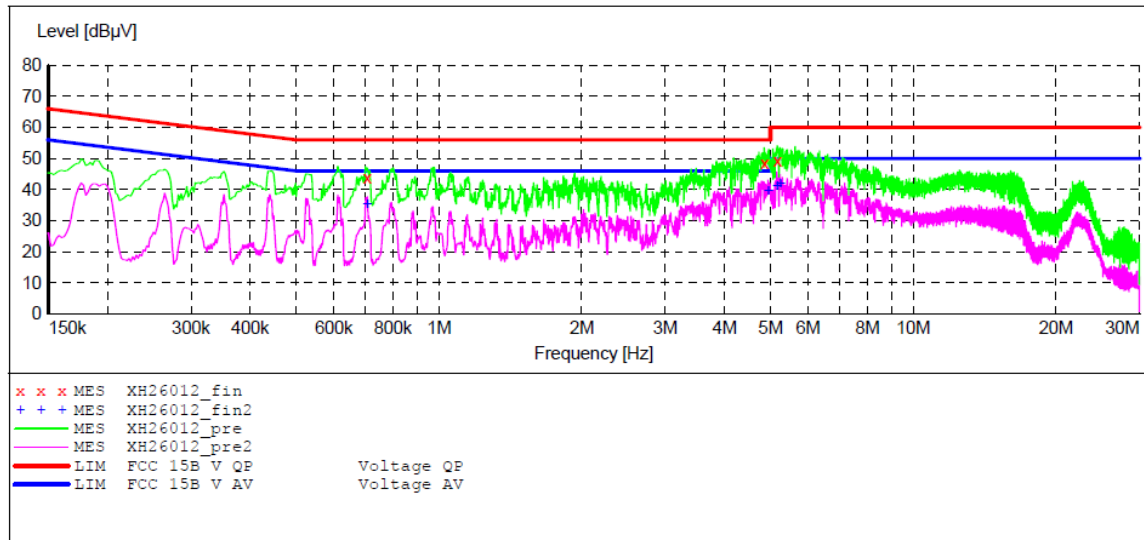
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Interactive Flat Panel M/N:ST-700
 Manufacturer: Recorderx
 Operating Condition: WAN IN
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20150571
 Start of Test: 2015-3-26 / 9:16:20

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 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "XH26012_fin"

2015-3-26 9:18

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.706000	43.90	11.5	56	12.1	QP	N	GND
4.853000	48.60	11.8	56	7.4	QP	N	GND
5.168000	49.20	11.8	60	10.8	QP	N	GND

MEASUREMENT RESULT: "XH26012_fin2"

2015-3-26 9:18

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.706000	35.40	11.5	46	10.6	AV	N	GND
4.943000	39.40	11.8	46	6.6	AV	N	GND
5.163500	41.00	11.8	50	9.0	AV	N	GND
5.240000	41.90	11.8	50	8.1	AV	N	GND

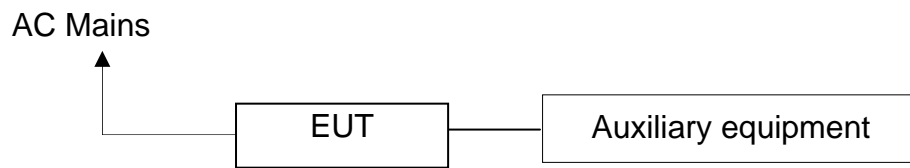
4. RADIATED EMISSION MEASUREMENT

4.1. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan.10, 2015	1 Year
2.	Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	Jan.10, 2015	1 Year
3.	Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan.10, 2015	1 Year
4.	Test Receiver	Rohde& Schwarz	ESPI	100396/003	Jan.10, 2015	1 Year
5.	Test Receiver	Rohde& Schwarz	ESPI	101526/003	Jan.10, 2015	1 Year
6.	Test Receiver	Rohde& Schwarz	ESR	101817	Jan.10, 2015	1 Year
7.	Bilog Antenna	Schwarzbeck	VULB9163	9163-194	Jan.15, 2015	1 Year
8.	Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan.15, 2015	1 Year
9.	Log.-Per.Antenna	Schwarzbeck	VUSLP 9111B	9111B-074	Jan.15, 2015	1 Year
10.	Biconical Broad Band Antenna	Schwarzbeck	VHBB 9124+BBA 9106	9124-617	Jan.15, 2015	1 Year
11.	Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan.15, 2015	1 Year
12.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan.15, 2015	1 Year
13.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Jan.15, 2015	1 Year
14.	Vertical Active Monopole Antenna	Schwarzbeck	VAMP 9243	9243-370	Jan.15, 2015	1 Year
15.	RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	Jan.10, 2015	1 Year
16.	Pre-Amplifier	Agilent	8447D	294A10619	Jan.10, 2015	1 Year
17.	Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	Jan.10, 2015	1 Year
18.	50 Coaxial Switch	Anritsu Corp	MP59B	6200237248	Jan.10, 2015	1 Year
19.	50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan.10, 2015	1 Year
20.	RF Coaxial Cable	Schwarzbeck	N-5m	No.1	Jan.10, 2015	1 Year
21.	RF Coaxial Cable	Schwarzbeck	N-1m	No.6	Jan.10, 2015	1 Year
22.	RF Coaxial Cable	Schwarzbeck	N-1m	No.7	Jan.10, 2015	1 Year
23.	RF Coaxial Cable	SUHNER	N-3m	No.8	Jan.10, 2015	1 Year
24.	RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	Jan.10, 2015	1 Year
25.	RF Coaxial Cable	SUHNER	N-6m	No.10	Jan.10, 2015	1 Year
26.	RF Coaxial Cable	RESENBERGER	N-12m	No.11	Jan.10, 2015	1 Year
27.	RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	Jan.10, 2015	1 Year
28.	RF Coaxial Cable	SUHNER	N-2m	No.13	Jan.10, 2015	1 Year
29.	RF Coaxial Cable	SUHNER	N-0.5m	No.15	Jan.10, 2015	1 Year
30.	RF Coaxial Cable	SUHNER	N-2m	No.16	Jan.10, 2015	1 Year
31.	RF Coaxial Cable	RESENBERGER	N-6m	No.17	Jan.10, 2015	1 Year

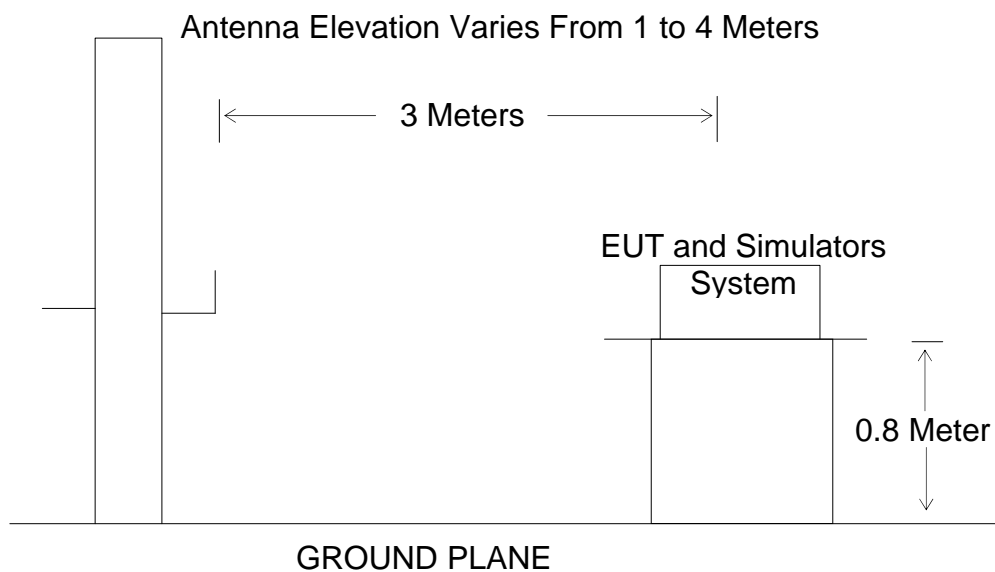
4.2. Block Diagram of Test Setup

4.2.1. Block diagram of connection between the EUT and simulators



(EUT: Interactive Flat Panel)

4.2.2. Anechoic Chamber Test Setup Diagram



(EUT: Interactive Flat Panel)

4.3. Radiated Emission Limit (Class B)

Frequency MHz	Distance Meters	Field Strengths Limit	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V/m})$
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
960-1000	3	500	54.0

Remark: (1) Emission level $\text{dB}(\mu\text{V}) = 20 \log$ Emission level $\mu\text{V/m}$.
 (2) The smaller limit shall apply at the cross point between two frequency bands.
 (3) Distance is the distance in meters between the measuring instrument antenna and the closest point of any part of the device or system.

4.4.EUT Configuration on Measurement

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

4.4.1. Interactive Flat Panel (EUT)

Model Number: ST-700

Serial Number: N/A

Manufacturer: Recordex USA, Inc.

4.5.Operating Condition of EUT

4.5.1.Setup the EUT and simulator as shown as Section 4.2.

4.5.2.Turn on the power of all equipment.

4.5.3.Let the EUT work in test mode (AV, USB, HDMI, VGA, WAN) and measure it.

4.6.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 : 2014 on radiated emission measurement.

The bandwidth of the EMI test receiver (R&S ESCS30) is set at 120kHz from 30MHz to 1000MHz.

The frequency range from 30MHz to 1000MHz is checked.

4.7.Radiated Emission Noise Measurement Result

PASS.

Model Number: ST-700 Test mode: USB								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	72.9762	58.20	-21.51	36.69	40.00	-3.31	QP
	2	371.2678	55.66	-15.85	39.81	46.00	-6.19	QP
	3	452.0013	50.24	-14.64	35.60	46.00	-10.40	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	72.4651	58.67	-21.49	37.18	40.00	-2.82	QP
	2	117.6813	62.88	-22.45	40.43	43.50	-3.07	QP
	3	371.2678	57.69	-15.85	41.84	46.00	-4.16	QP
Above 1G								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1169.790	56.47	-3.76	52.71	74.00	-21.29	peak
	2	1169.790	46.30	-3.76	42.54	54.00	-11.46	AVG
	3	1380.797	56.45	-3.08	53.37	74.00	-20.63	peak
	4	1380.797	45.70	-3.08	42.62	54.00	-11.38	AVG
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1383.288	58.54	-3.07	55.47	74.00	-18.53	peak
	2	1383.288	49.30	-3.07	46.23	54.00	-7.77	AVG
	3	2354.252	56.51	0.76	57.27	74.00	-16.73	peak
	4	2354.252	45.22	0.76	45.98	54.00	-8.02	AVG

Model Number: ST-700								
Test mode: AV								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	72.4652	58.55	-21.49	37.06	40.00	-2.94	QP
	2	294.4259	55.94	-17.96	37.98	46.00	-8.02	QP
	3	584.1611	50.67	-12.03	38.64	46.00	-7.36	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	73.4908	58.67	-21.54	37.13	40.00	-2.87	QP
	2	117.6814	60.78	-22.45	38.33	43.50	-5.17	QP
	3	295.4623	58.53	-17.94	40.59	46.00	-5.41	QP
Above 1G								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1167.683	54.61	-3.76	50.85	74.00	-23.15	peak
	2	1167.683	43.67	-3.76	39.91	54.00	-14.09	AVG
	3	2320.546	51.03	0.66	51.69	74.00	-22.31	peak
	4	2320.546	41.20	0.66	41.86	54.00	-12.14	AVG
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1395.812	60.23	-3.04	57.19	74.00	-16.81	peak
	2	1395.812	50.69	-3.04	47.65	54.00	-6.35	AVG
	3	2345.780	56.77	0.74	57.51	74.00	-16.49	peak
	4	2345.780	45.14	0.74	45.88	54.00	-8.12	AVG

Model Number: ST-700								
Test mode: HDMI								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	70.7047	57.83	-21.39	36.44	40.00	-3.56	QP
	2	183.2211	57.66	-21.55	36.11	43.50	-7.39	QP
	3	369.9658	55.24	-15.86	39.38	46.00	-6.62	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	75.5858	58.90	-21.60	37.30	40.00	-2.70	QP
	2	371.2679	57.64	-15.85	41.79	46.00	-4.21	QP
	3	452.0013	54.37	-14.64	39.73	46.00	-6.27	QP
Above 1G								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1098.267	55.32	-3.98	51.34	74.00	-22.66	peak
	2	1098.267	44.79	-3.98	40.81	54.00	-13.19	AVG
	3	1380.797	54.11	-3.08	51.03	74.00	-22.97	peak
	4	1380.797	45.25	-3.08	42.17	54.00	-11.83	AVG
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1378.310	59.91	-3.09	56.82	74.00	-17.18	peak
	2	1378.310	48.67	-3.09	45.58	54.00	-8.42	AVG
	3	2350.012	56.95	0.75	57.70	74.00	-16.30	peak
4	2350.012	45.78	0.75	46.53	54.00	-7.47	AVG	

Model Number: ST-700								
Test mode: VGA								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	73.2330	56.97	-21.53	35.44	40.00	-4.56	QP
	2	166.6383	62.53	-22.15	40.38	43.50	-3.12	QP
	3	584.1611	49.99	-12.03	37.96	46.00	-8.04	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	73.2330	58.64	-21.53	37.11	40.00	-2.89	QP
	2	166.6384	63.15	-22.15	41.00	43.50	-2.50	QP
	3	741.8155	49.76	-8.79	40.97	46.00	-5.03	QP
Above 1G								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1329.505	55.90	-3.24	52.66	74.00	-21.34	peak
	2	1329.505	44.67	-3.24	41.43	54.00	-12.57	AVG
	3	2354.252	51.97	0.76	52.73	74.00	-21.27	peak
	4	2354.252	40.36	0.76	41.12	54.00	-12.88	AVG
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1261.791	59.86	-3.47	56.39	74.00	-17.61	peak
	2	1261.791	48.56	-3.47	45.09	54.00	-8.91	AVG
	3	2354.252	54.66	0.76	55.42	74.00	-18.58	peak
	4	2354.252	44.21	0.76	44.97	54.00	-9.03	AVG

Model Number: ST-700								
Test mode: WAN IN								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	74.2696	57.67	-21.58	36.09	40.00	-3.91	QP
	2	295.4623	57.25	-17.94	39.31	46.00	-6.69	QP
	3	878.0931	46.46	-6.47	39.99	46.00	-6.01	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	62.5231	57.69	-21.14	36.55	40.00	-3.45	QP
	2	294.4260	59.02	-17.96	41.06	46.00	-4.94	QP
	3	367.3752	57.82	-15.87	41.95	46.00	-4.05	QP
Above 1G								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1331.904	56.18	-3.24	52.94	74.00	-21.06	peak
	2	1331.904	45.91	-3.24	42.67	54.00	-11.33	AVG
	3	2345.780	49.69	0.74	50.43	74.00	-23.57	peak
	4	2345.780	38.65	0.74	39.39	54.00	-14.61	AVG
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1390.789	57.68	-3.05	54.63	74.00	-19.37	peak
	2	1390.789	46.90	-3.05	43.85	54.00	-10.15	AVG
	3	2350.012	56.05	0.75	56.80	74.00	-17.20	peak
	4	2350.012	45.67	0.75	46.42	54.00	-7.58	AVG



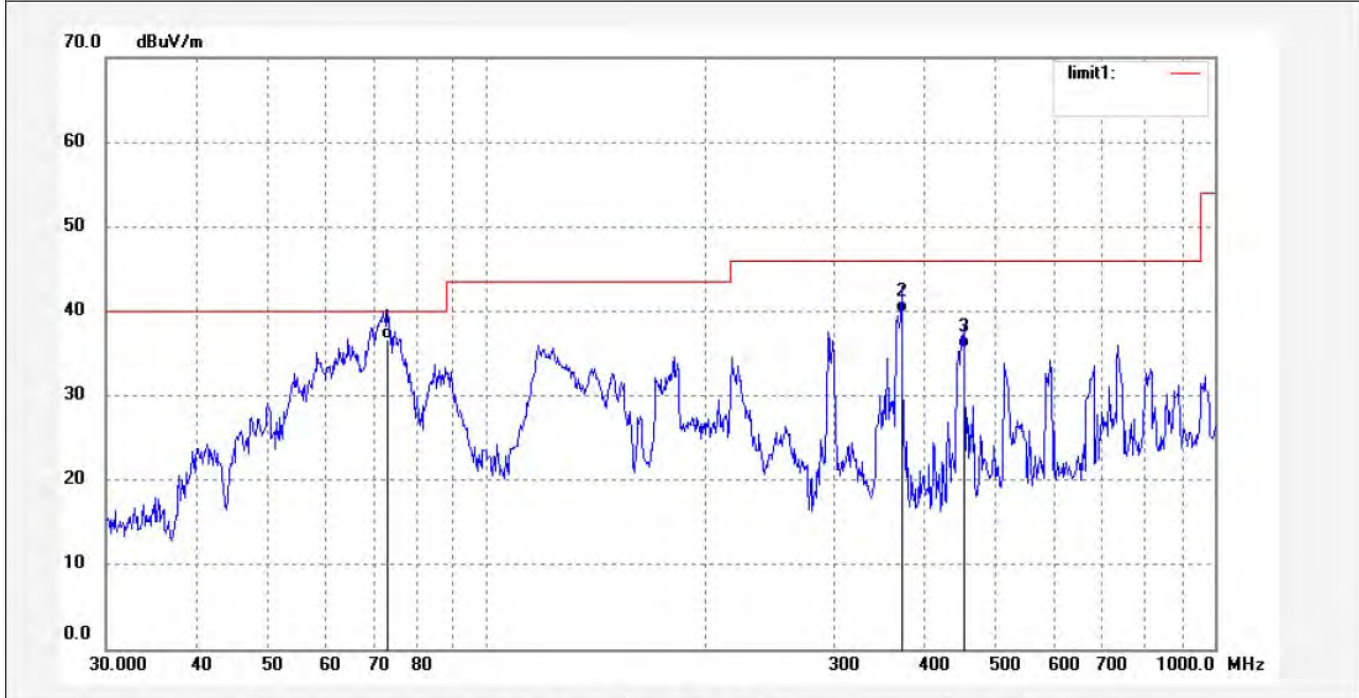
ACCURATE TECHNOLOGY CO., LTD.

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

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: star2015 #462	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/03/26/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 8/32/53
EUT: Interactive Flat Panel	Engineer Signature:
Mode: USB	Distance: 3m
Model: ST-700	
Manufacturer: Recordex	

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	72.9762	58.20	-21.51	36.69	40.00	-3.31	QP			
2	371.2678	55.66	-15.85	39.81	46.00	-6.19	QP			
3	452.0013	50.24	-14.64	35.60	46.00	-10.40	QP			



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Site: 1# Chamber

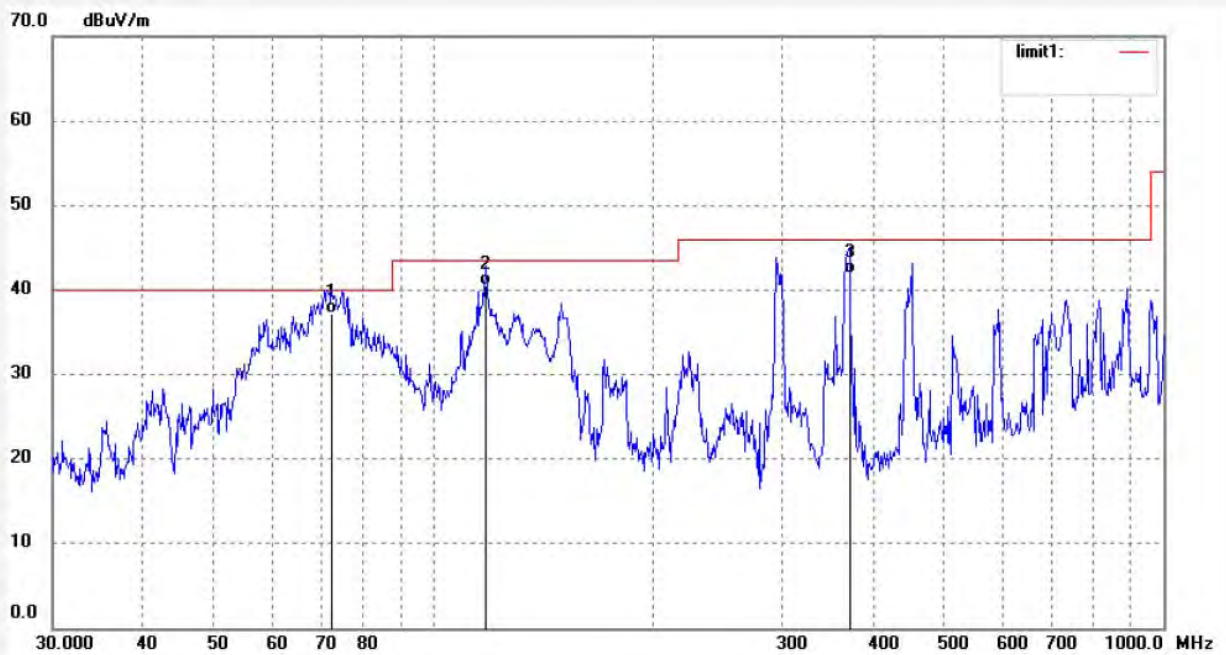
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #463
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Interactive Flat Panel
Mode: USB
Model: ST-700
Manufacturer: Recordex

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 15/03/26/
Time: 8/33/53
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	72.4651	58.67	-21.49	37.18	40.00	-2.82	QP			
2	117.6813	62.88	-22.45	40.43	43.50	-3.07	QP			
3	371.2678	57.69	-15.85	41.84	46.00	-4.16	QP			



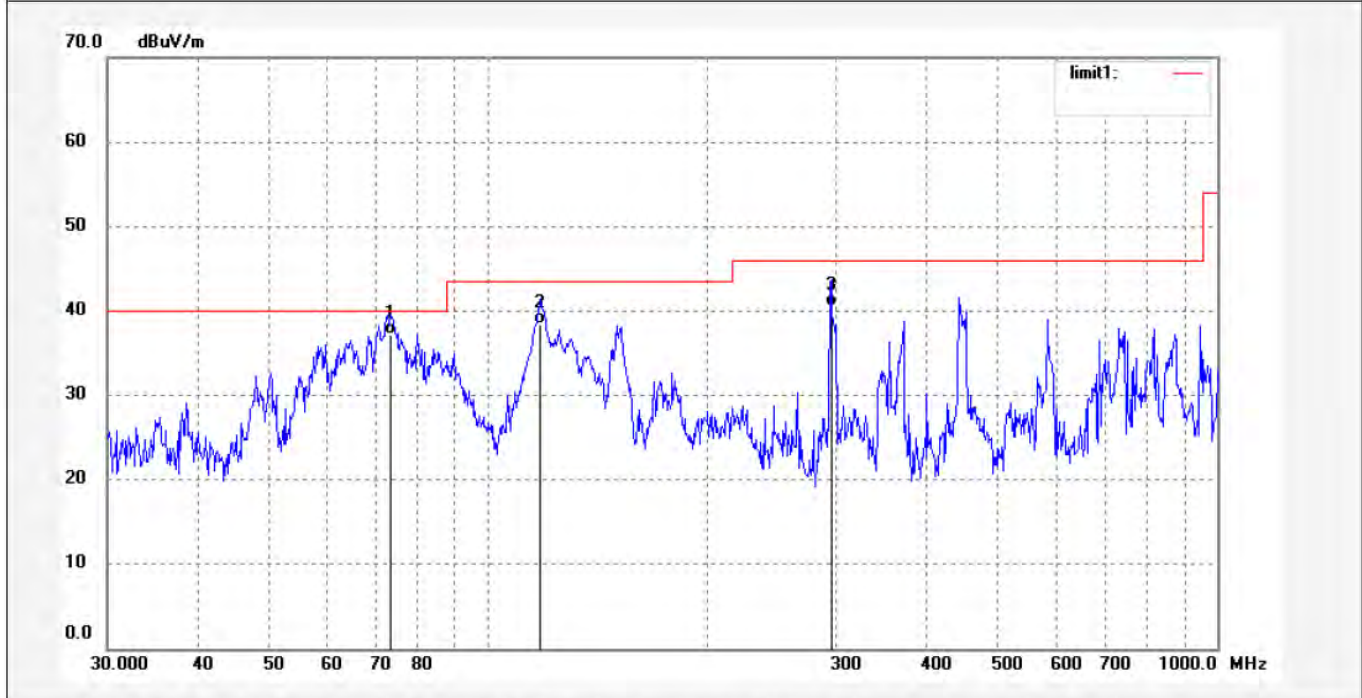
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: star2015 #464	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/03/26/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 8/36/46
EUT: Interactive Flat Panel	Engineer Signature:
Mode: AV	Distance: 3m
Model: ST-700	
Manufacturer: Recordex	

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	73.4908	58.67	-21.54	37.13	40.00	-2.87	QP			
2	117.6814	60.78	-22.45	38.33	43.50	-5.17	QP			
3	295.4623	58.53	-17.94	40.59	46.00	-5.41	QP			

Job No.: star2015 #465

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Interactive Flat Panel

Mode: AV

Model: ST-700

Manufacturer: Recordex

Polarization: Horizontal

Power Source: AC 120V/60Hz

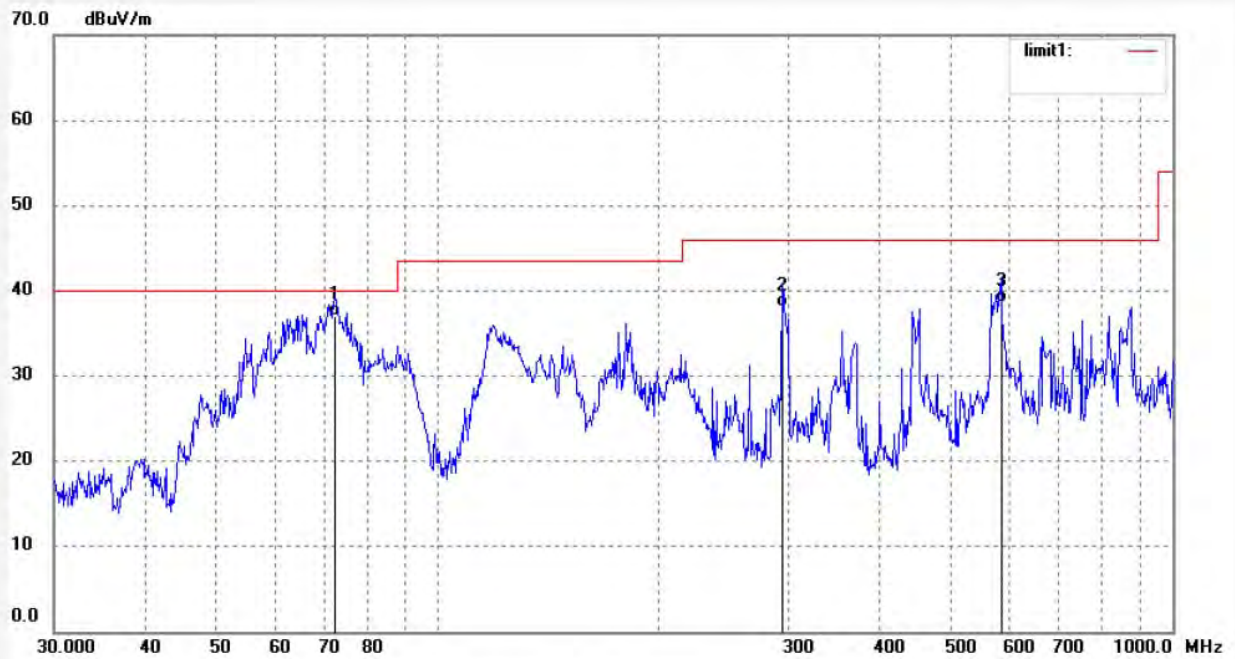
Date: 15/03/26/

Time: 8/38/04

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	72.4652	58.55	-21.49	37.06	40.00	-2.94	QP			
2	294.4259	55.94	-17.96	37.98	46.00	-8.02	QP			
3	584.1611	50.67	-12.03	38.64	46.00	-7.36	QP			



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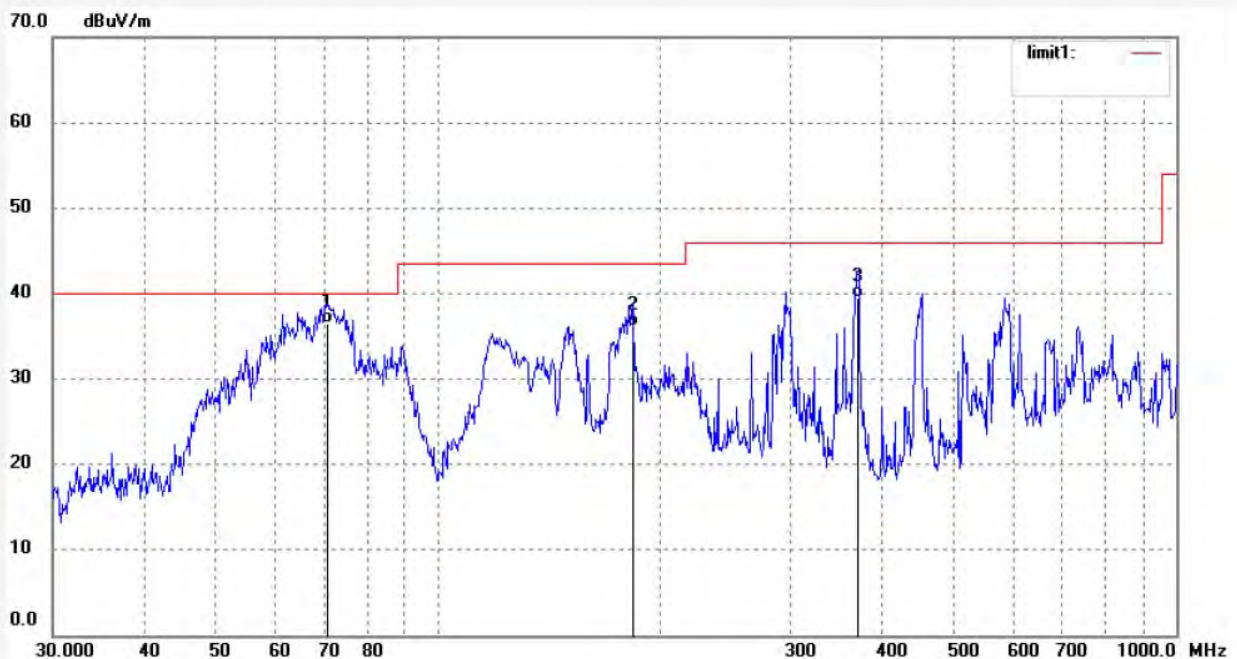
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: star2015 #466
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Interactive Flat Panel
Mode: HDMI
Model: ST-700
Manufacturer: Recordex

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/03/26/
Time: 8/40/24
Engineer Signature:
Distance: 3m

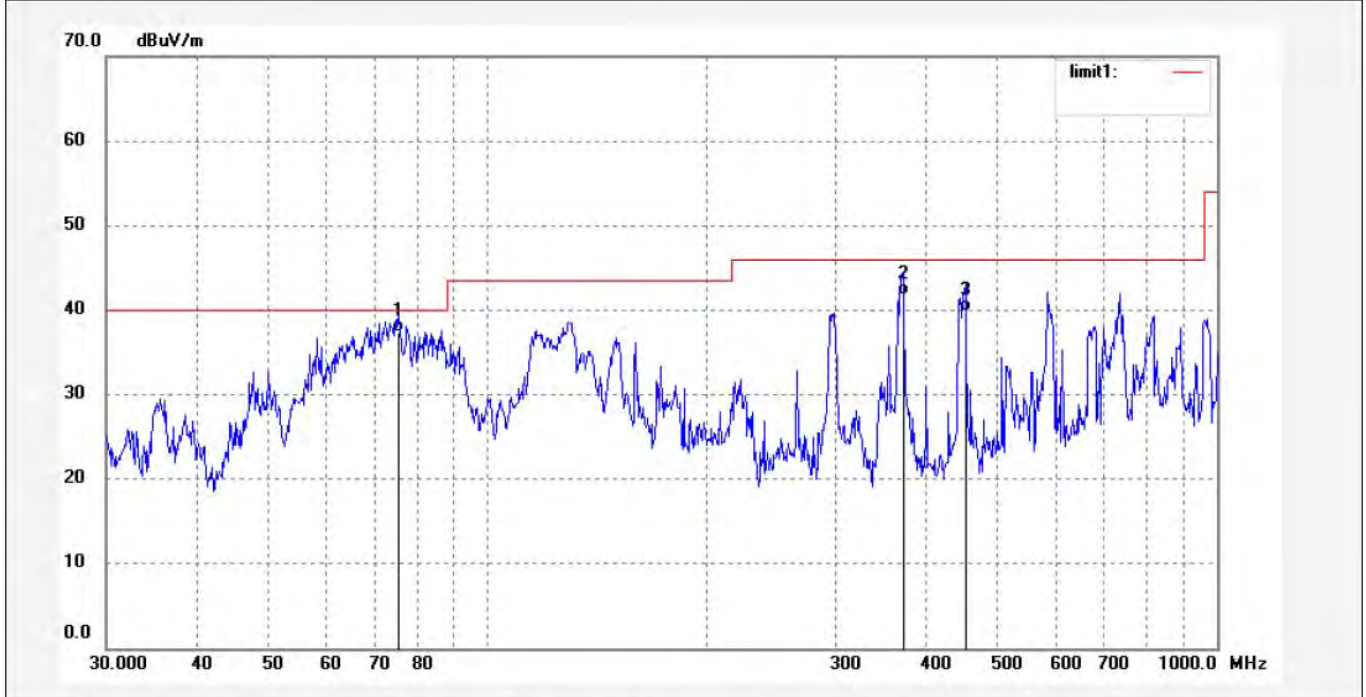
Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	70.7047	57.83	-21.39	36.44	40.00	-3.56	QP			
2	183.2211	57.66	-21.55	36.11	43.50	-7.39	QP			
3	369.9658	55.24	-15.86	39.38	46.00	-6.62	QP			

Job No.: star2015 #467	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/03/26/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 8/41/05
EUT: Interactive Flat Panel	Engineer Signature:
Mode: HDMI	Distance: 3m
Model: ST-700	
Manufacturer: Recordex	

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	75.5858	58.90	-21.60	37.30	40.00	-2.70	QP			
2	371.2679	57.64	-15.85	41.79	46.00	-4.21	QP			
3	452.0013	54.37	-14.64	39.73	46.00	-6.27	QP			

Job No.: star2015 #468

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Interactive Flat Panel

Mode: VGA

Model: ST-700

Manufacturer: Recordex

Polarization: Vertical

Power Source: AC 120V/60Hz

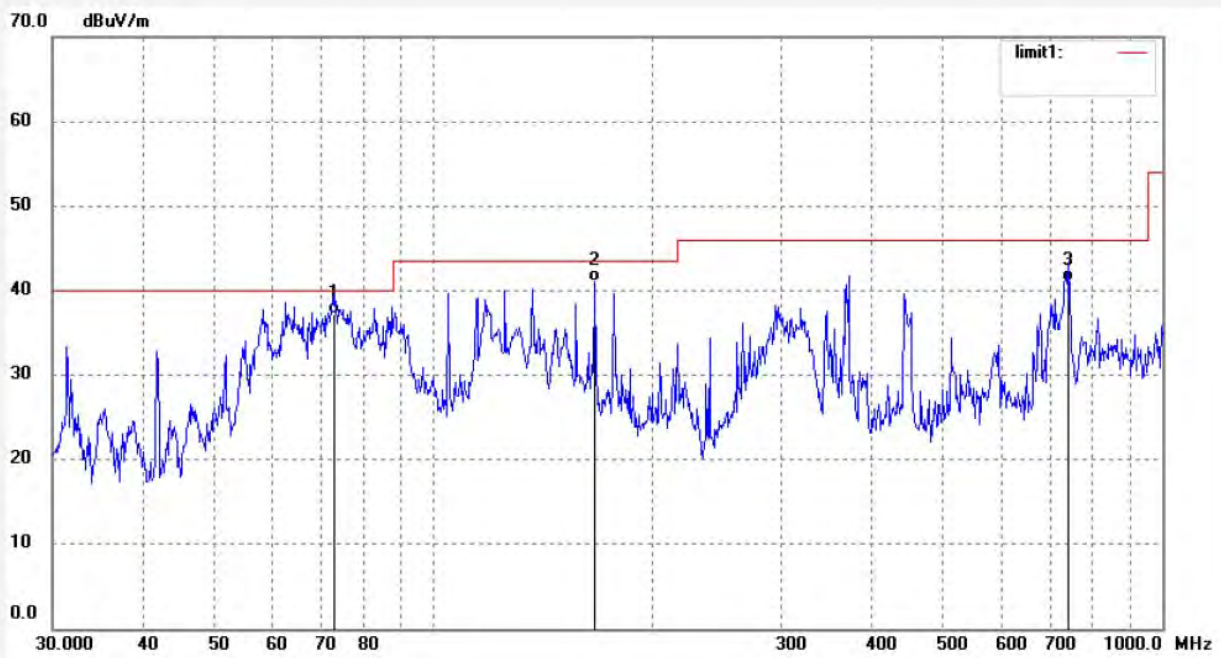
Date: 15/03/26/

Time: 8/43/50

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	73.2330	58.64	-21.53	37.11	40.00	-2.89	QP			
2	166.6384	63.15	-22.15	41.00	43.50	-2.50	QP			
3	741.8155	49.76	-8.79	40.97	46.00	-5.03	QP			



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Fax:+86-0755-26503396

Job No.: star2015 #469

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Interactive Flat Panel

Mode: VGA

Model: ST-700

Manufacturer: Recordex

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 15/03/26/

Time: 8/44/53

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20150571

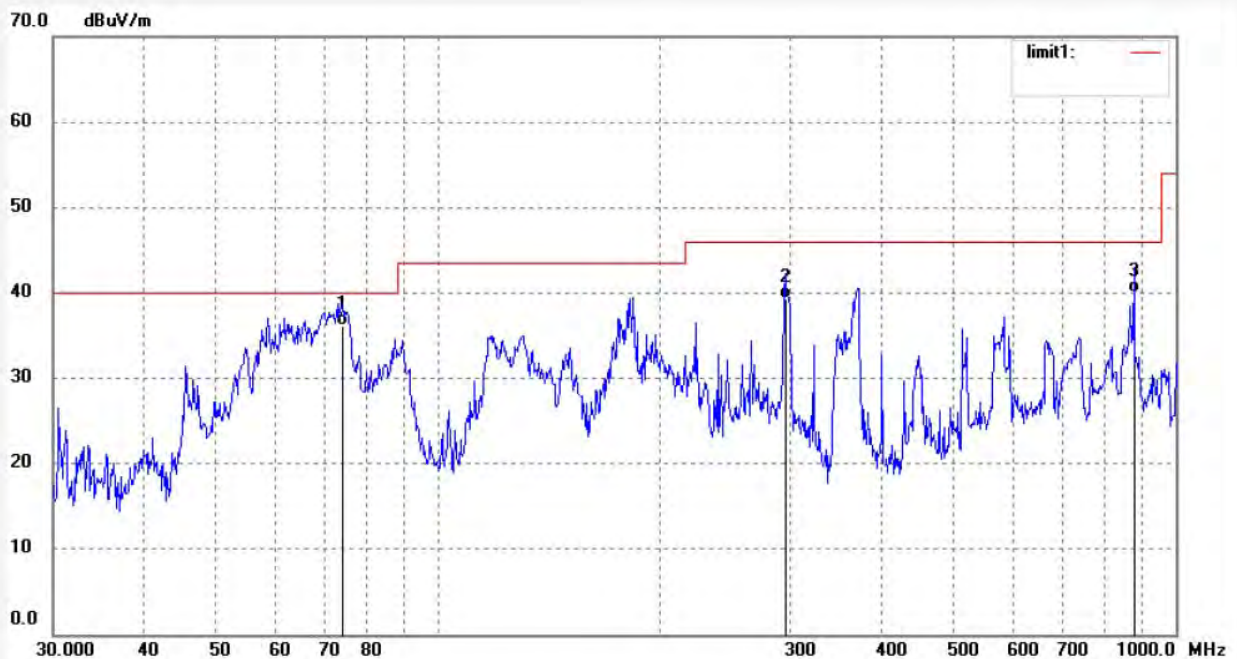


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	73.2330	56.97	-21.53	35.44	40.00	-4.56	QP			
2	166.6383	62.53	-22.15	40.38	43.50	-3.12	QP			
3	584.1611	49.99	-12.03	37.96	46.00	-8.04	QP			

Job No.: star2015 #470
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: Interactive Flat Panel
 Mode: WAN IN
 Model: ST-700
 Manufacturer: Recordex

Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 15/03/26/
 Time: 8/47/50
 Engineer Signature:
 Distance: 3m

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	74.2696	57.67	-21.58	36.09	40.00	-3.91	QP			
2	295.4623	57.25	-17.94	39.31	46.00	-6.69	QP			
3	878.0931	46.46	-6.47	39.99	46.00	-6.01	QP			



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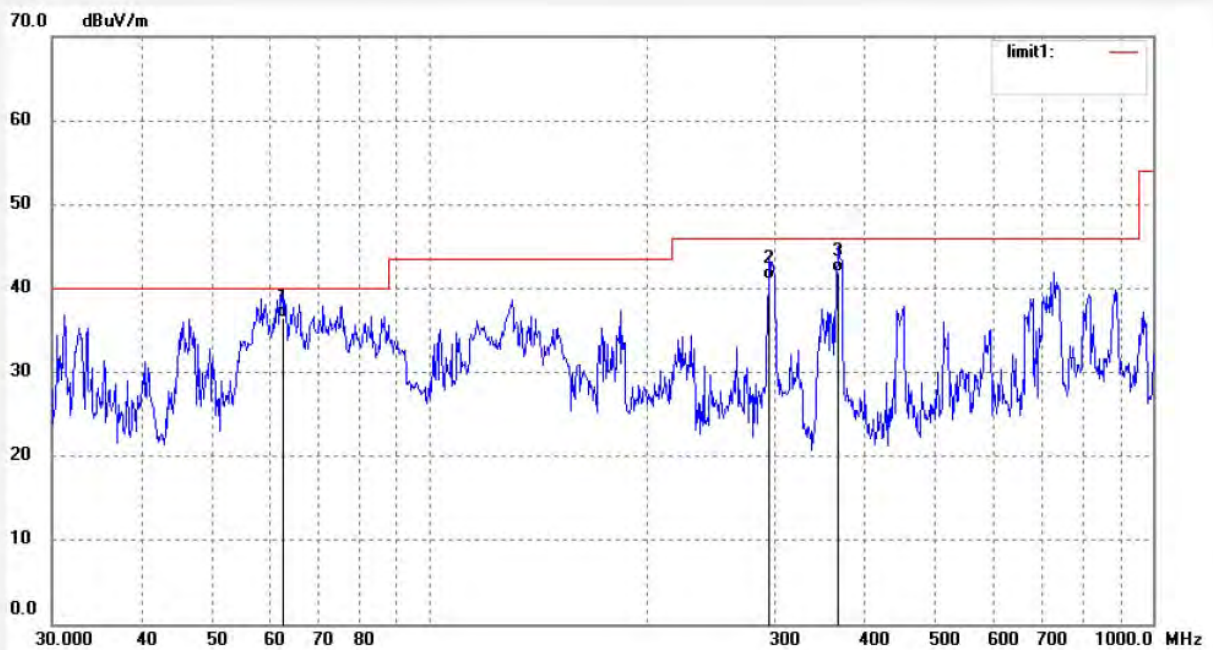
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #471	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/03/26/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 8/48/39
EUT: Interactive Flat Panel	Engineer Signature:
Mode: WAN IN	Distance: 3m
Model: ST-700	
Manufacturer: Recordex	

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	62.5231	57.69	-21.14	36.55	40.00	-3.45	QP			
2	294.4260	59.02	-17.96	41.06	46.00	-4.94	QP			
3	367.3752	57.82	-15.87	41.95	46.00	-4.05	QP			



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Site: 1# Chamber

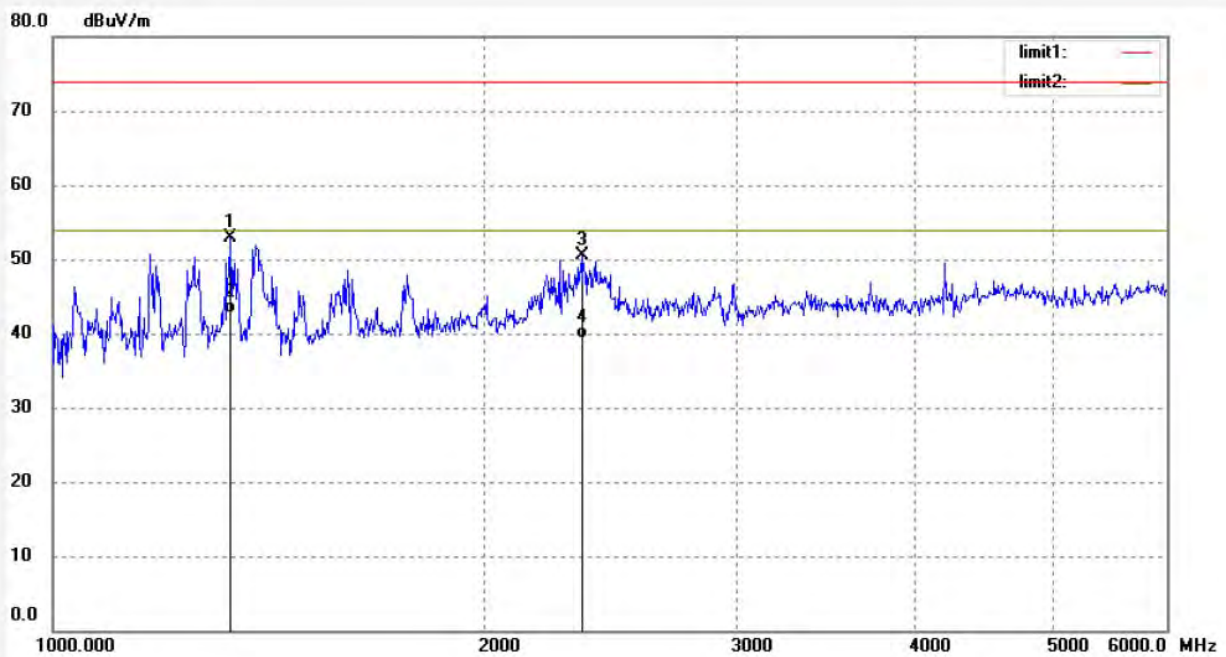
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #472
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Interactive Flat Panel
Mode: WAN IN
Model: ST-700
Manufacturer: Recordex

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 15/03/26/
Time: 8/51/30
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1331.904	56.18	-3.24	52.94	74.00	-21.06	peak			
2	1331.904	45.91	-3.24	42.67	54.00	-11.33	AVG			
3	2345.780	49.69	0.74	50.43	74.00	-23.57	peak			
4	2345.780	38.65	0.74	39.39	54.00	-14.61	AVG			



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Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: star2015 #473

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Interactive Flat Panel

Mode: WAN IN

Model: ST-700

Manufacturer: Recordex

Polarization: Vertical

Power Source: AC 120V/60Hz

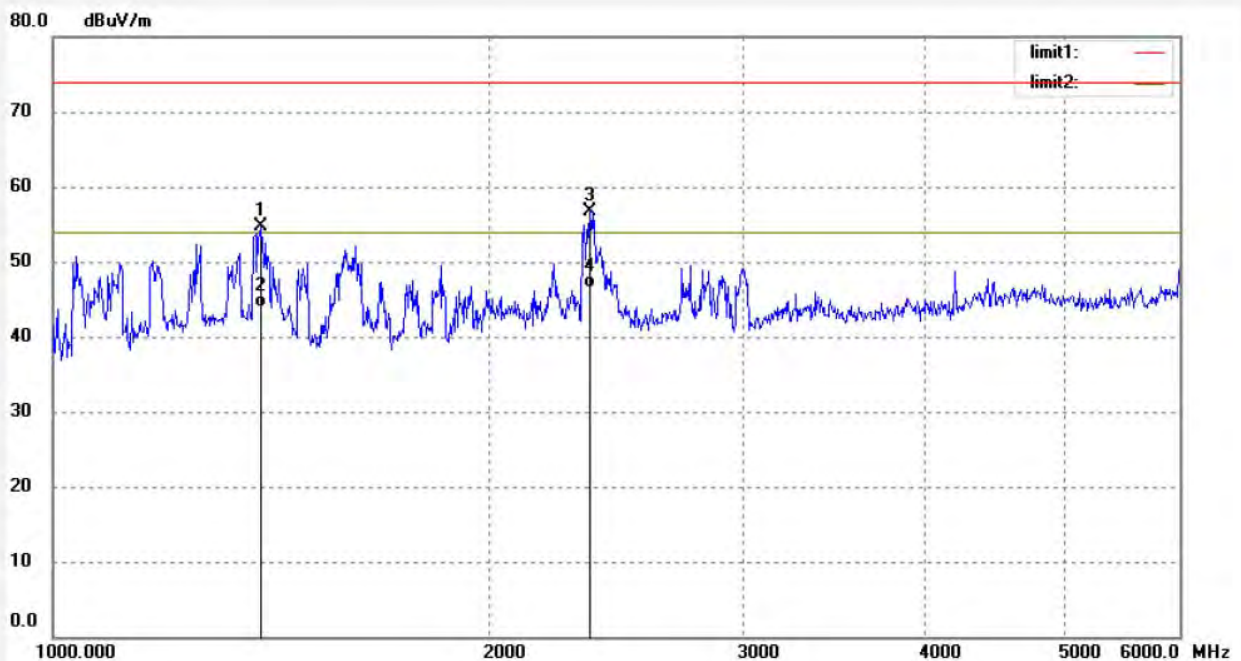
Date: 15/03/26/

Time: 8/53/29

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1390.789	57.68	-3.05	54.63	74.00	-19.37	peak			
2	1390.789	46.90	-3.05	43.85	54.00	-10.15	AVG			
3	2350.012	56.05	0.75	56.80	74.00	-17.20	peak			
4	2350.012	45.67	0.75	46.42	54.00	-7.58	AVG			



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

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #474

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Interactive Flat Panel

Mode: USB

Model: ST-700

Manufacturer: Recordex

Polarization: Vertical

Power Source: AC 120V/60Hz

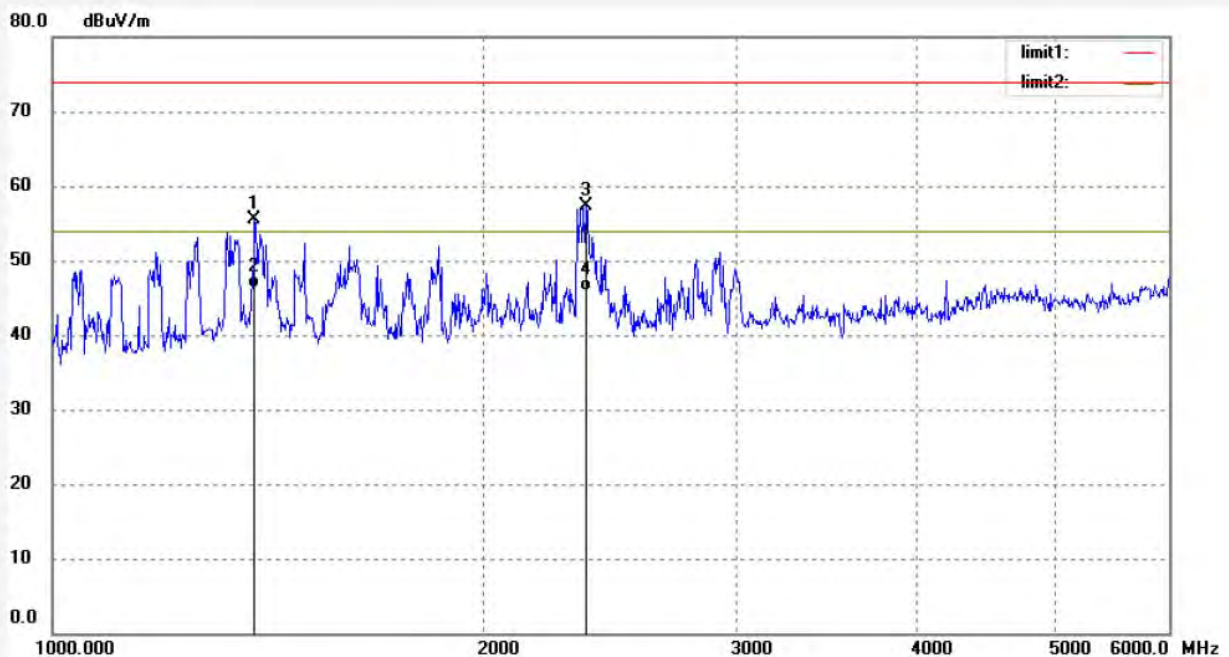
Date: 15/03/26/

Time: 8/56/24

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1383.288	58.54	-3.07	55.47	74.00	-18.53	peak			
2	1383.288	49.30	-3.07	46.23	54.00	-7.77	AVG			
3	2354.252	56.51	0.76	57.27	74.00	-16.73	peak			
4	2354.252	45.22	0.76	45.98	54.00	-8.02	AVG			



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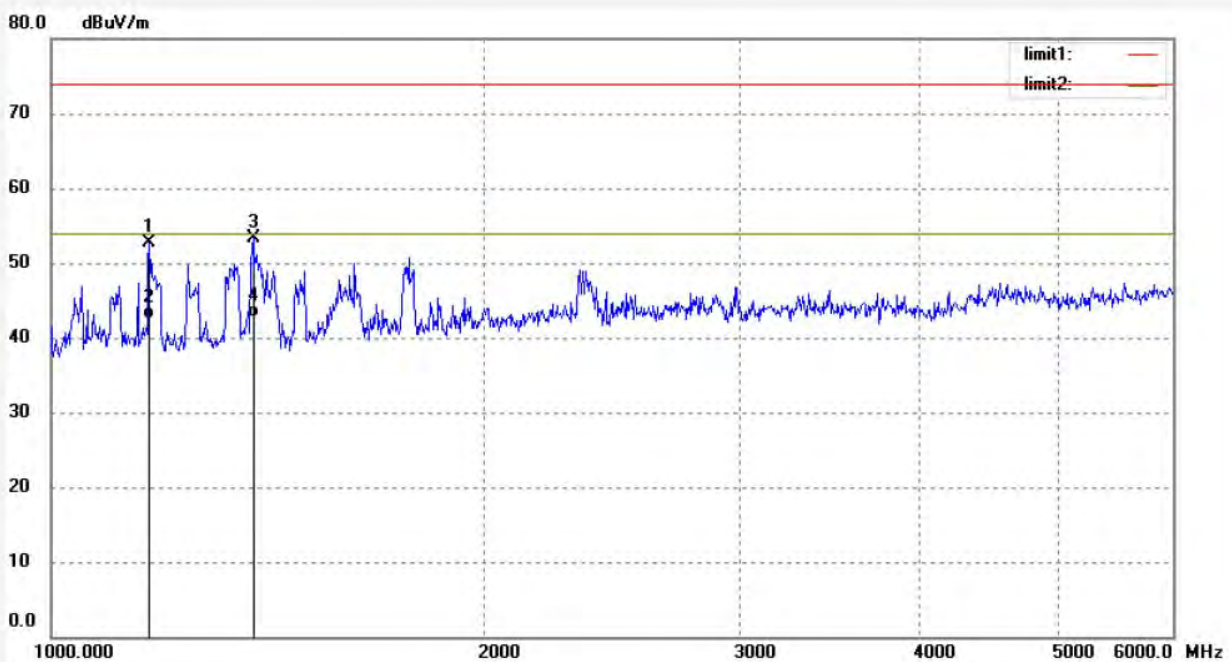
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #475	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/03/26/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 8/57/57
EUT: Interactive Flat Panel	Engineer Signature:
Mode: USB	Distance: 3m
Model: ST-700	
Manufacturer: Recordex	

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1169.790	56.47	-3.76	52.71	74.00	-21.29	peak			
2	1169.790	46.30	-3.76	42.54	54.00	-11.46	AVG			
3	1380.797	56.45	-3.08	53.37	74.00	-20.63	peak			
4	1380.797	45.70	-3.08	42.62	54.00	-11.38	AVG			



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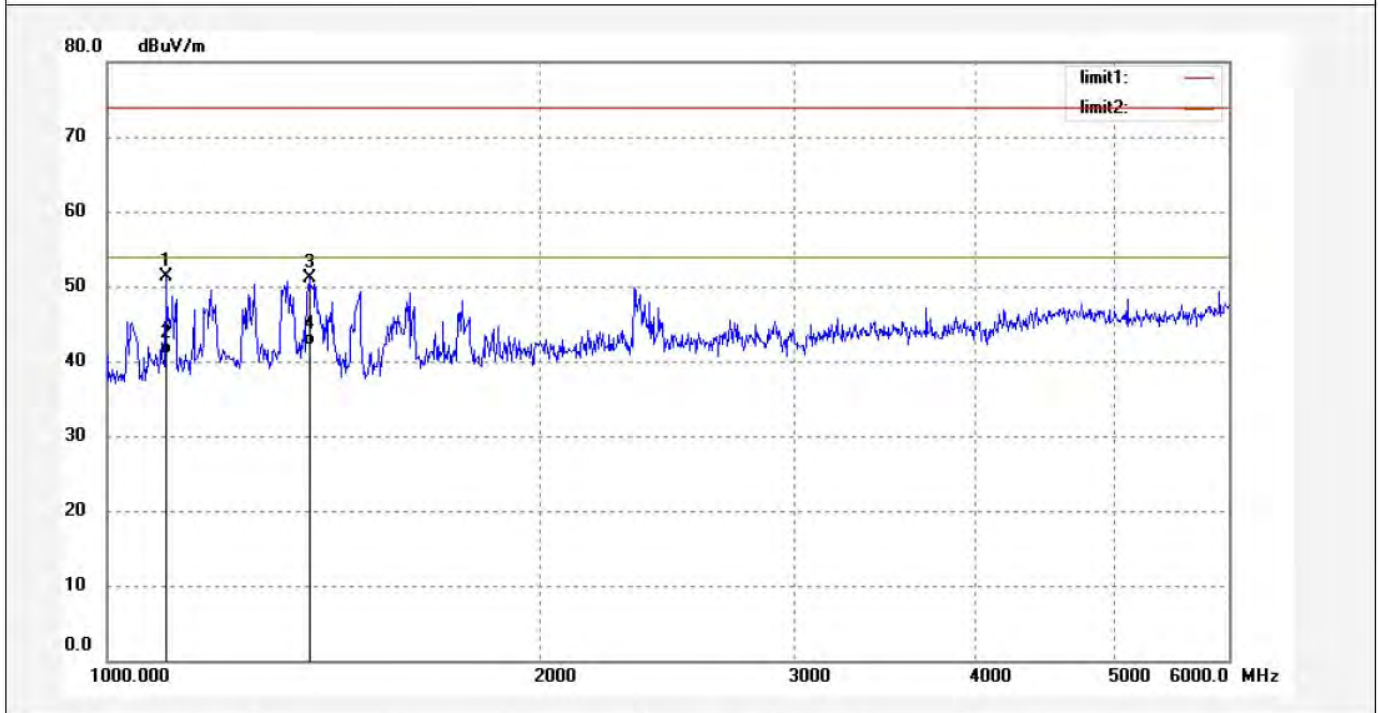
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2015 #476	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 15/03/26/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/00/10
EUT: Interactive Flat Panel	Engineer Signature:
Mode: HDMI	Distance: 3m
Model: ST-700	
Manufacturer: Recordex	

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1098.267	55.32	-3.98	51.34	74.00	-22.66	peak			
2	1098.267	44.79	-3.98	40.81	54.00	-13.19	AVG			
3	1380.797	54.11	-3.08	51.03	74.00	-22.97	peak			
4	1380.797	45.25	-3.08	42.17	54.00	-11.83	AVG			

Job No.: star2015 #477

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Interactive Flat Panel

Mode: HDMI

Model: ST-700

Manufacturer: Recordex

Polarization: Vertical

Power Source: AC 120V/60Hz

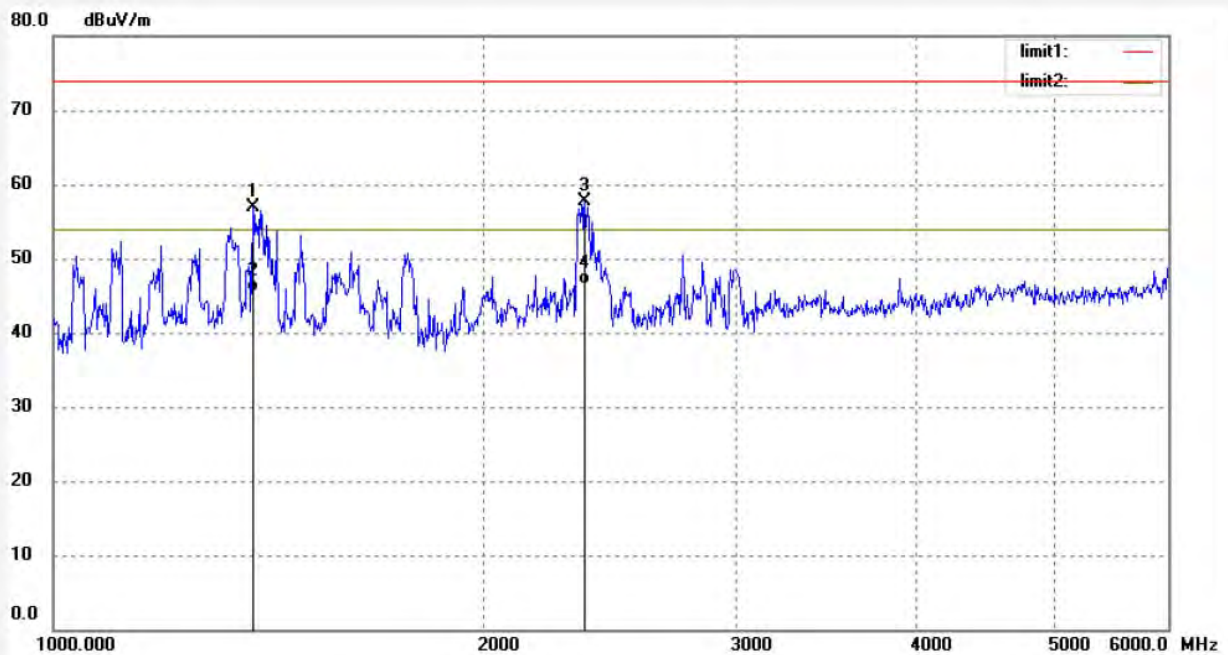
Date: 15/03/26/

Time: 9/01/26

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1378.310	59.91	-3.09	56.82	74.00	-17.18	peak			
2	1378.310	48.67	-3.09	45.58	54.00	-8.42	AVG			
3	2350.012	56.95	0.75	57.70	74.00	-16.30	peak			
4	2350.012	45.78	0.75	46.53	54.00	-7.47	AVG			

Job No.: star2015 #478

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Interactive Flat Panel

Mode: AV

Model: ST-700

Manufacturer: Recordex

Polarization: Vertical

Power Source: AC 120V/60Hz

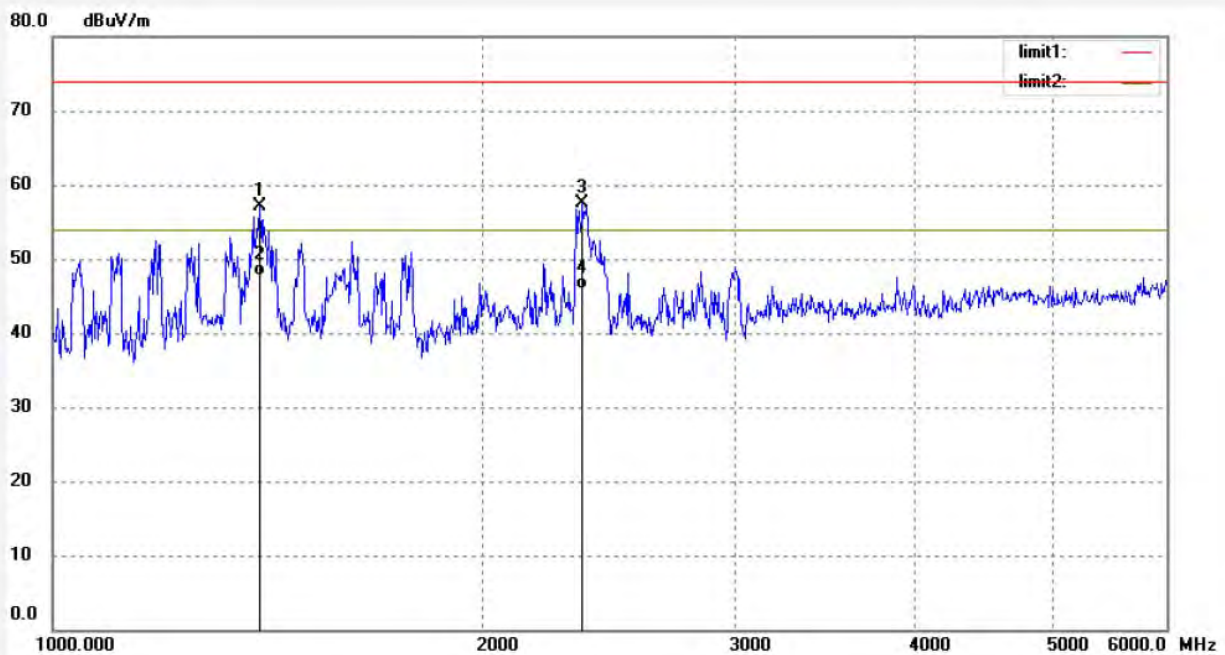
Date: 15/03/26/

Time: 9/02/54

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1395.812	60.23	-3.04	57.19	74.00	-16.81	peak			
2	1395.812	50.69	-3.04	47.65	54.00	-6.35	AVG			
3	2345.780	56.77	0.74	57.51	74.00	-16.49	peak			
4	2345.780	45.14	0.74	45.88	54.00	-8.12	AVG			



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Fax:+86-0755-26503396

Job No.: star2015 #479

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Interactive Flat Panel

Mode: AV

Model: ST-700

Manufacturer: Recordex

Polarization: Horizontal

Power Source: AC 120V/60Hz

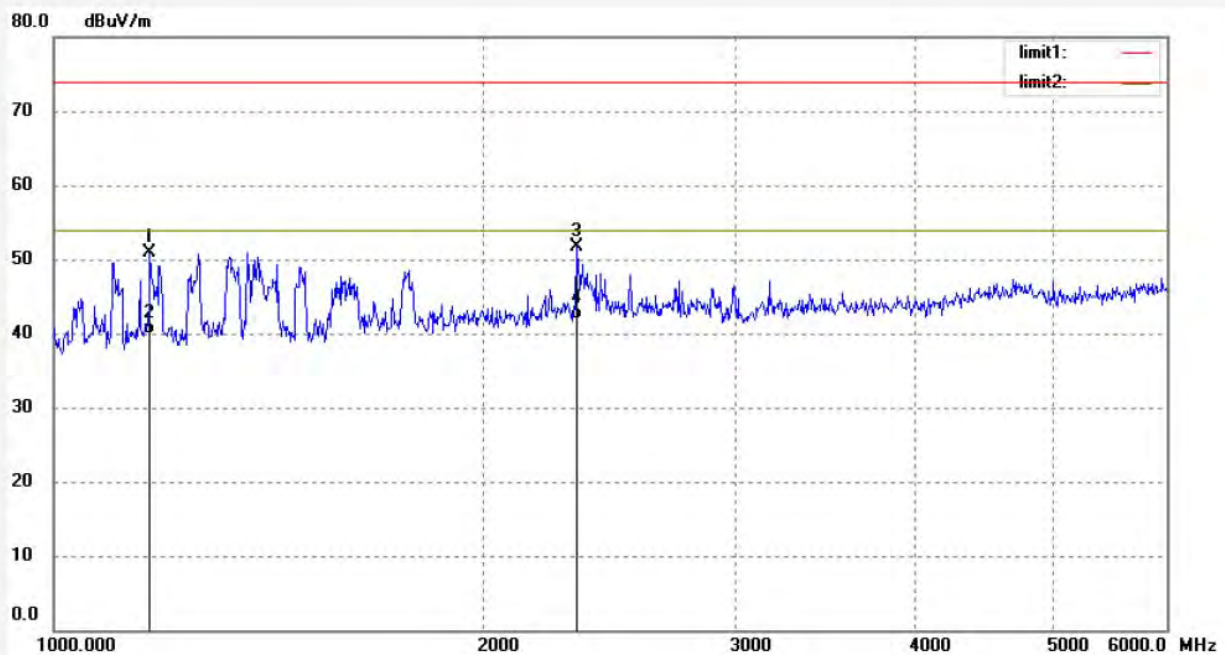
Date: 15/03/26/

Time: 9/04/18

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1167.683	54.61	-3.76	50.85	74.00	-23.15	peak			
2	1167.683	43.67	-3.76	39.91	54.00	-14.09	AVG			
3	2320.546	51.03	0.66	51.69	74.00	-22.31	peak			
4	2320.546	41.20	0.66	41.86	54.00	-12.14	AVG			



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Job No.: star2015 #480

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Interactive Flat Panel

Mode: VGA

Model: ST-700

Manufacturer: Recordex

Polarization: Horizontal

Power Source: AC 120V/60Hz

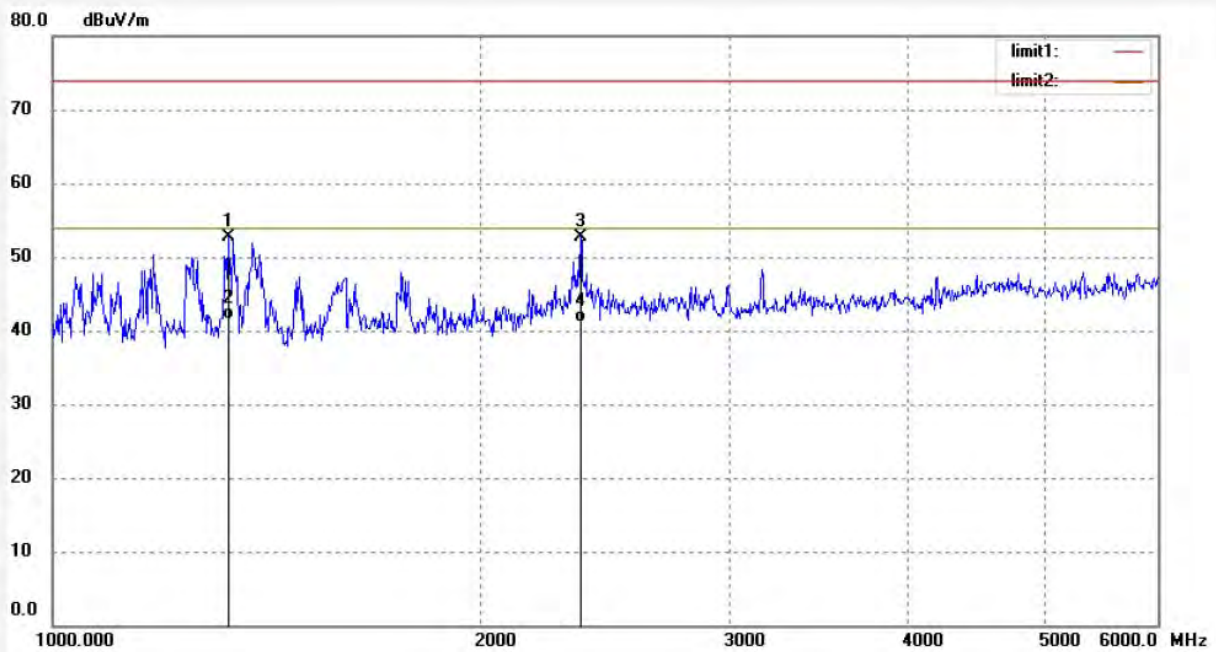
Date: 15/03/26/

Time: 9/07/58

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1329.505	55.90	-3.24	52.66	74.00	-21.34	peak			
2	1329.505	44.67	-3.24	41.43	54.00	-12.57	AVG			
3	2354.252	51.97	0.76	52.73	74.00	-21.27	peak			
4	2354.252	40.36	0.76	41.12	54.00	-12.88	AVG			



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Fax:+86-0755-26503396

Job No.: star2015 #481

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 15/03/26/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/09/43

EUT: Interactive Flat Panel

Engineer Signature:

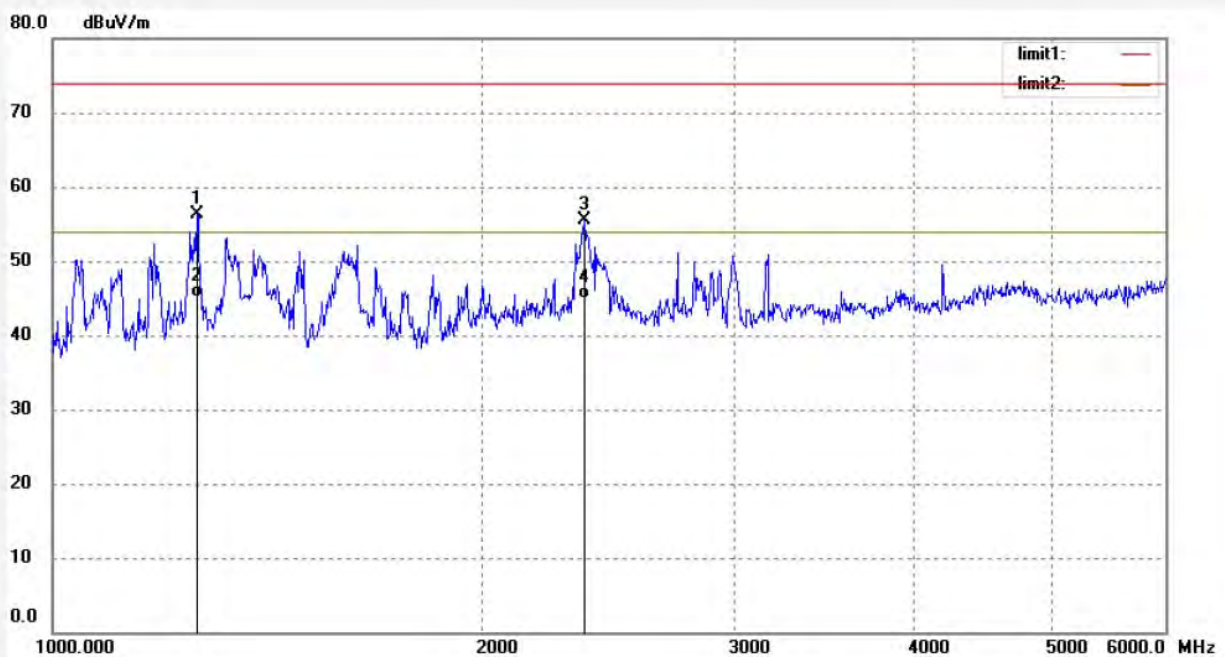
Mode: VGA

Distance: 3m

Model: ST-700

Manufacturer: Recordex

Note: Report No.:ATE20150571



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1261.791	59.86	-3.47	56.39	74.00	-17.61	peak			
2	1261.791	48.56	-3.47	45.09	54.00	-8.91	AVG			
3	2354.252	54.66	0.76	55.42	74.00	-18.58	peak			
4	2354.252	44.21	0.76	44.97	54.00	-9.03	AVG			

5. PHOTOGRAPHS

5.1.Photos of Power Line Conducted Measurement

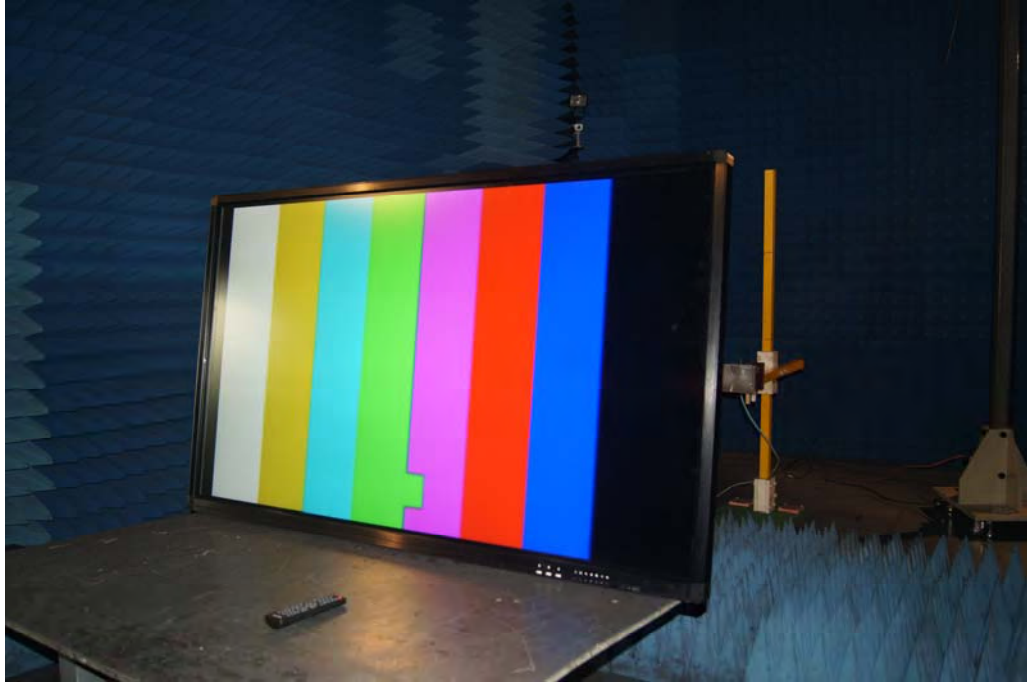


5.2.Photos of Radiated Measurement

Alow 1G



Above 1G



5.3.Photo of EUT







