

FCC CERTIFICATION
On Behalf of
Hanshin International Limited

eBoard
Model No.: HSTNX-001

FCC ID: WT4HSTNX-001

Prepared for : Hanshin International Limited
Address : 1/F., Block 3, No. 5 Zhuji Road, Tianhe District, Guangzhou
China

Prepared by : ACCURATE TECHNOLOGY CO. LTD
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Report Number : ATE20082001
Date of Test : October 18-23, 2008
Date of Report : October 23, 2008

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APPENDIX I (TEST CURVES) (28 pages)

Test Report Certification

Applicant : Hanshin International Limited
Manufacturer : Hanshin International Limited
EUT Description : eBoard
(A) MODEL NO.: HSTNX-001
(B) SERIAL NO.: N/A
(C) POWER SUPPLY: DC 12V (Adapter input)

Measurement Procedure Used:

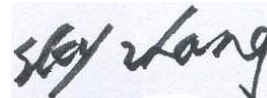
FCC Rules and Regulations Part 15 Subpart C Section 15.249: 2008 & ANSI C63.4: 2003

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 C Section 15.249 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.

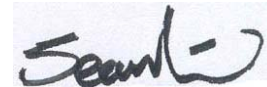
Date of Test : October 18-23, 2008

Prepared by :



(Engineer)

Approved & Authorized Signer :



(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	eBoard
Model Number	:	HSTNX-001
Power Supply	:	DC 12V (Adapter input)
AC Adapter	:	M/N: GFP121U-1210 Input: AC 100-240V, 50/60Hz 0.3A Output: DC 12V, 1A Output cable: non-shielded, non-detachable, 1.8m, with a ferrite core
Operate Frequency	:	2411.2-2480.2MHz
Applicant	:	Hanshin International Limited
Address	:	1/F., Block 3, No. 5 Zhuji Road, Tianhe District, Guangzhou, China
Manufacturer	:	Hanshin International Limited
Address	:	1/F., Block 3, No. 5 Zhuji Road, Tianhe District, Guangzhou, China
Date of sample received	:	October 17, 2008
Date of Test	:	October 18-23, 2008

1.2. 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

1.3. Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	03.29.2009
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	03.29.2009
Spectrum Analyzer	Agilent	E7405A	MY45115511	03.29.2009
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	03.31.2009
Loop Antenna	Schwarzbeck	FMZB1516	1516131	03.28.2009
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	03.29.2009
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	12.20.2008
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	10.09.2009
LISN	Rohde&Schwarz	ESH3-Z5	100305	03.29.2009
LISN	Schwarzbeck	NSLK8126	8126431	03.29.2009

3. SUMMARY OF TEST RESULTS

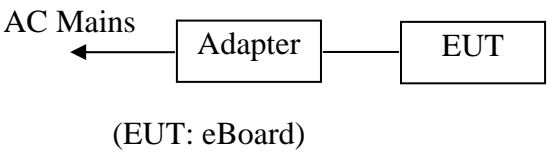
FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	Compliant
Section 15.209 Section 15.249(d)	Radiated Emission	Compliant
Section 15.249(a)	The fundamental field strength and the harmonics	Compliant
Section 15.249(d)	Band Edge	Compliant

4. CONDUCTED EMISSION FOR FCC PART 15 SECTION

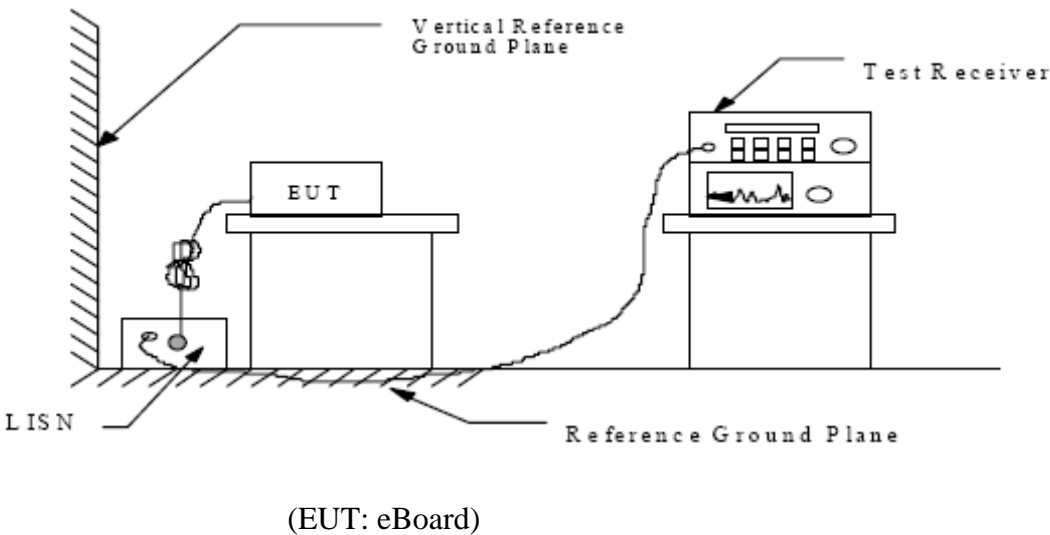
15.207(A)

4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



4.1.2. Shielding Room Test Setup Diagram



4.2. The Emission Limit

4.2.1. Conducted Emission Measurement Limits According to Section 15.207(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.

4.3.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.

4.3.1.eBoard (EUT)

Model Number	:	HSTNX-001
Serial Number	:	N/A
Manufacturer	:	Hanshin International Limited

4.4.Operating Condition of EUT

4.4.1.Setup the EUT and simulator as shown as Section 4.1.

4.4.2.Turn on the power of all equipment.

4.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2411.2-2480.2MHz. We are select 2411.2MHz, 2447.2MHz, 2480.2MHz TX frequency to transmit.

4.5.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: 2003 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.

All the scanning waveforms are attached in Appendix I.

4.6. Power Line Conducted Emission Measurement Results

PASS.

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

Date of Test:	October 23, 2008	Temperature:	25°C
EUT:	eBoard	Humidity:	53%
			DC 12V (Adapter input)
Model No.:	HSTNX-001	Power Supply:	Adapter power: AC120V/60Hz
Test Mode:	TX 2411.2MHz	Test Engineer:	Joe

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	46.60	11.0	66	19.2	QP	N	GND
0.492000	33.40	12.0	56	22.7	QP	N	GND
0.564000	43.70	12.0	56	12.3	QP	N	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	42.00	11.0	56	13.8	AV	N	GND
0.478500	29.50	12.0	46	16.9	AV	N	GND
0.559500	39.70	12.0	46	6.3	AV	N	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	48.60	11.0	66	17.2	QP	L1	GND
0.501000	31.70	12.0	56	24.3	QP	L1	GND
0.564000	42.50	12.0	56	13.5	QP	L1	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	43.00	11.0	56	12.8	AV	L1	GND
0.492000	27.70	12.0	46	18.4	AV	L1	GND
0.564000	37.80	12.0	46	8.2	AV	L1	GND

The spectral diagrams in appendix I display the measurement of un-weighted peak values.

Date of Test:	October 23, 2008	Temperature:	25°C
EUT:	eBoard	Humidity:	53%
			DC 12V (Adapter input)
Model No.:	HSTNX-001	Power Supply:	Adapter power: AC120V/60Hz
Test Mode:	TX 2447.2MHz	Test Engineer:	Joe

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	46.40	11.0	66	19.6	QP	N	GND
0.501000	33.20	12.0	56	22.8	QP	N	GND
0.559500	44.20	12.0	56	11.8	QP	N	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	41.40	11.0	56	14.6	AV	N	GND
0.505500	29.80	12.0	46	16.2	AV	N	GND
0.559500	40.20	12.0	46	5.8	AV	N	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	48.30	11.0	66	17.7	QP	L1	GND
0.496500	32.20	12.0	56	23.9	QP	L1	GND
0.559500	42.60	12.0	56	13.4	QP	L1	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	42.20	11.0	56	13.8	AV	L1	GND
0.505500	27.10	12.0	46	18.9	AV	L1	GND
0.559500	37.20	12.0	46	8.2	AV	L1	GND

The spectral diagrams in appendix I display the measurement of un-weighted peak values.

Date of Test:	October 23, 2008	Temperature:	25°C
EUT:	eBoard	Humidity:	53%
			DC 12V (Adapter input)
Model No.:	HSTNX-001	Power Supply:	Adapter power: AC120V/60Hz
Test Mode:	TX 2480.2MHz	Test Engineer:	Joe

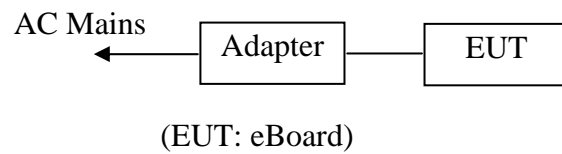
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	45.80	11.0	66	20.0	QP	N	GND
0.492000	33.40	12.0	56	22.7	QP	N	GND
0.559500	43.90	12.0	56	12.1	QP	N	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	42.10	11.0	56	13.9	AV	N	GND
0.559500	40.00	12.0	46	6.0	AV	N	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.159000	49.20	11.0	66	16.3	QP	L1	GND
0.505500	32.50	12.0	56	23.5	QP	L1	GND
0.564000	43.10	12.0	56	12.9	QP	L1	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.159000	44.20	11.0	56	11.3	AV	L1	GND
0.492000	29.30	12.0	46	16.8	AV	L1	GND
0.564000	39.20	12.0	46	6.8	AV	L1	GND

The spectral diagrams in appendix I display the measurement of un-weighted peak values.

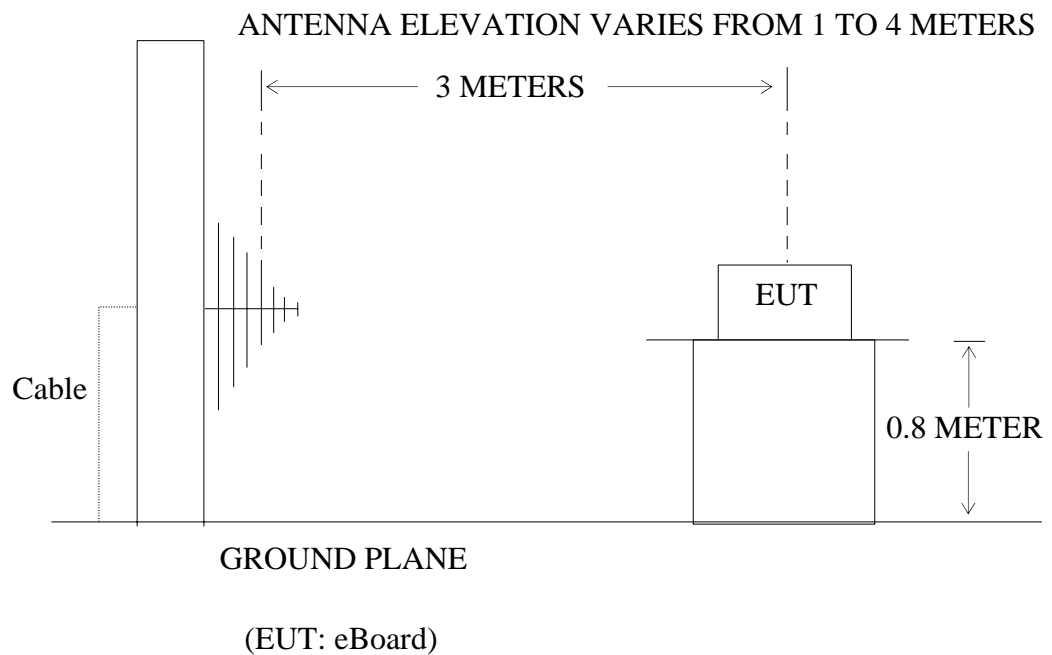
5. FUNDAMENTAL AND HARMONICS RADIATED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators



5.1.2. Anechoic Chamber Test Setup Diagram



5.2.The Emission Limit

5.2.1.For intentional radiators, According to section 15.249(a), Operation within the frequency band of 2.4 to 2.4835GHz, The fundamental field strength shall not exceed 94 dB μ V/m and the harmonics shall not exceed 54 dB μ V/m.

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of harmonics (microvolts/meter)
902-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

5.2.2.According to section 15.249(e), as shown in section 15.35(b), the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

5.3.Configuration of EUT on Measurement

The following equipment are 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.

5.3.1.eBoard (EUT)

Model Number : HSTNX-001
 Serial Number : N/A
 Manufacturer : Hanshin International Limited

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 TX modes measure it. The transmit frequency are 2411.2-2480.2MHz. We are select 2411.2MHz, 2447.2MHz, 2480.2MHz TX frequency to transmit.

5.5. 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: 2003 on radiated emission measurement.

The bandwidth of test receiver (R&S ESI26) is set at 1MHz.

5.6.The Field Strength of Radiation Emission Measurement Results

PASS.

Date of Test:	October 18-21, 2008	Temperature:	25°C
EUT:	eBoard	Humidity:	52%
			DC 12V (Adapter input)
Model No.:	HSTNX-001	Power Supply:	Adapter power: AC120V/60Hz
Test Mode:	TX 2411.2MHz	Test Engineer:	Joe

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2411.197	78.69	90.00	-7.43	71.26	82.57	94	114	-22.74	-31.43	Vertical
2411.196	77.06	88.34	-7.43	69.63	80.91	94	114	-24.37	-33.09	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4822.396	48.71	60.51	-0.19	48.52	60.32	54	74	-5.48	-13.68	Vertical
7233.594	35.63	46.81	3.04	38.67	49.85	54	74	-15.33	-24.15	
4822.396	46.11	57.36	-0.19	45.92	57.17	54	74	-8.08	-16.83	Horizontal
7233.594	34.84	46.16	3.04	37.88	49.20	54	74	-16.12	-24.80	

The spectral diagrams in appendix I display the measurement of peak values.

Note:

1. The emission emitted by the EUT is too low to be measured except the emission listed above.
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:

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

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

Date of Test:	October 18-21, 2008	Temperature:	25°C
EUT:	eBoard	Humidity:	52%
Model No.:	HSTNX-001	Power Supply:	DC 12V (Adapter input)
Test Mode:	TX 2447.2MHz	Test Engineer:	Adapter power: AC120V/60Hz Joe

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2447.199	81.88	93.04	-7.34	74.54	85.70	94	114	-19.46	-28.30	Vertical
2447.199	76.01	87.22	-7.34	68.67	79.88	94	114	-25.33	-34.12	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4894.401	49.86	61.20	0.21	50.07	61.41	54	74	-3.93	-12.59	Vertical
4894.401	44.48	55.90	0.21	44.69	56.11	54	74	-9.31	-17.89	Horizontal

The spectral diagrams in appendix I display the measurement of peak values.

Note:

1. The emission emitted by the EUT is too low to be measured except the emission listed above.
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:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

Date of Test:	October 18-21, 2008	Temperature:	25°C
EUT:	eBoard	Humidity:	52%
Model No.:	HSTNX-001	Power Supply:	DC 12V (Adapter input)
Test Mode:	TX 2480.2MHz	Test Engineer:	Adapter power: AC120V/60Hz Joe

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2480.168	75.38	86.54	-7.37	68.01	79.17	94	114	-25.99	-34.83	Vertical
2480.168	79.26	90.58	-7.37	71.89	83.21	94	114	-22.11	-30.79	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
4960.312	45.39	56.64	0.52	45.91	57.16	54	74	-8.09	-16.84	Vertical
7440.501	33.61	44.38	3.69	37.30	48.07	54	74	-16.70	-25.93	
4960.312	46.97	58.62	0.52	47.49	59.14	54	74	-6.51	-14.86	Horizontal
7440.501	31.24	41.63	3.69	34.93	45.32	54	74	-19.07	-28.68	

The spectral diagrams in appendix I display the measurement of peak values.

Note:

1. The emission emitted by the EUT is too low to be measured except the emission listed above.
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:

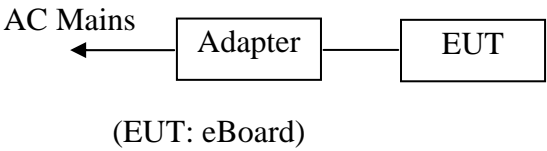
$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

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

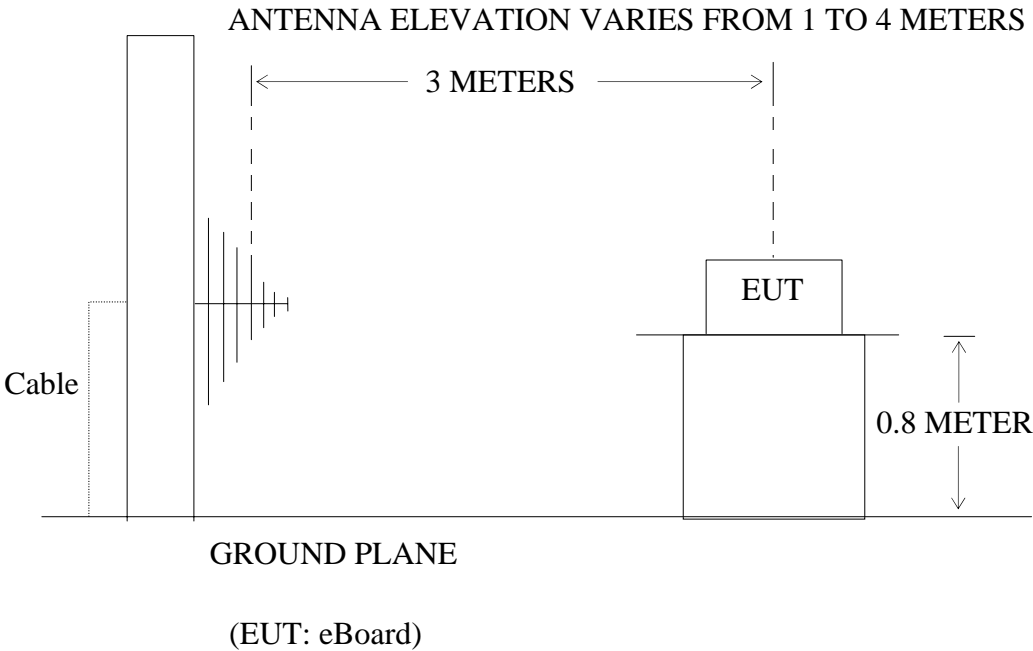
6. RADIATED EMISSION FOR FCC PART 15 SECTION 15.249(D)

6.1. Block Diagram of Test Setup

6.1.1. Block diagram of connection between the EUT and simulators



6.1.2. Anechoic Chamber Test Setup Diagram



6.2.The Emission Limit For Section 15.249(d)

6.2.1.Emission radiated outside of the specified frequency bands, except for harmonics, shall be comply with the general radiated emission limits in Section 15.209.

Radiation Emission Measurement Limits According to Section 15.209.

Frequency (MHz)	Limit		The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
	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. eBoard (EUT)

Model Number : HSTNX-001
 Serial Number : N/A
 Manufacturer : Hanshin International Limited

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 TX modes measure it. The transmit frequency are 2411.2-2480.2MHz. We are select 2411.2MHz, 2447.2MHz, 2480.2MHz TX frequency to transmit.

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: 2003 on radiated emission measurement.

The bandwidth of test receiver (R&S ESI26) is set at 120KHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 25000MHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

6.6.The Emission Measurement Result

PASS.

Date of Test:	October 18-21, 2008	Temperature:	25°C
EUT:	eBoard	Humidity:	52%
Model No.:	HSTNX-001	Power Supply:	DC 12V (Adapter input) Adapter power: AC120V/60Hz
Test Mode:	TX 2411.2MHz	Test Engineer:	Joe

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
35.2060	15.92	18.64	34.56	40.00	-5.44	Vertical
53.4556	22.03	13.65	35.68	40.00	-4.32	
160.5469	21.25	14.61	35.86	43.50	-7.64	
217.6194	20.49	15.61	36.10	46.00	-9.90	
324.6921	13.68	19.54	33.22	46.00	-12.78	
431.7917	13.01	22.96	35.97	46.00	-10.03	
160.5506	22.76	14.61	37.37	43.50	-6.13	Horizontal
217.6198	22.75	15.61	38.36	46.00	-7.64	
267.4835	20.61	18.44	39.05	46.00	-6.95	
324.6896	22.03	19.54	41.57	46.00	-4.43	
431.7859	19.51	22.96	42.47	46.00	-3.53	
486.5060	14.31	23.91	38.22	46.00	-7.78	

The spectral diagrams in appendix I display the measurement of peak values.

Note:

1. Remark “-” means that the emission level is too low to be measured.
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:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

Date of Test:	October 18-21, 2008	Temperature:	25°C
EUT:	eBoard	Humidity:	52%
Model No.:	HSTNX-001	Power Supply:	DC 12V (Adapter input)
			Adapter power: AC120V/60Hz
Test Mode:	TX 2447.2MHz	Test Engineer:	Joe

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
35.1957	16.28	18.64	34.92	40.00	-5.08	Vertical
53.4541	21.98	13.65	35.63	40.00	-4.37	
160.5502	22.66	14.61	37.27	43.50	-6.23	
217.6219	20.49	15.61	36.10	46.00	-9.90	
322.5896	14.79	19.45	34.24	46.00	-11.76	
431.7879	13.48	22.96	36.44	46.00	-9.56	
160.5552	23.03	14.61	37.64	43.50	-5.86	Horizontal
217.6231	22.53	15.61	38.14	46.00	-7.86	
267.4849	20.48	18.44	38.92	46.00	-7.08	
324.6889	22.04	19.54	41.58	46.00	-4.42	
431.7874	19.63	22.96	42.59	46.00	-3.41	
462.4122	15.14	23.33	38.47	46.00	-7.53	

The spectral diagrams in appendix I display the measurement of peak values.

Note:

1. Remark “-” means that the emission level is too low to be measured.
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:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

Date of Test:	<u>October 18-21, 2008</u>	Temperature:	<u>25°C</u>
EUT:	<u>eBoard</u>	Humidity:	<u>52%</u>
Model No.:	<u>HSTNX-001</u>	Power Supply:	<u>DC 12V (Adapter input)</u>
			<u>Adapter power: AC120V/60Hz</u>
Test Mode:	<u>TX 2480.2MHz</u>	Test Engineer:	<u>Joe</u>

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
35.1988	17.31	18.64	35.95	40.00	-4.05	Vertical
53.4439	22.10	13.66	35.76	40.00	-4.24	
160.5520	22.01	14.61	36.62	43.50	-6.88	
217.6153	21.86	15.61	37.47	46.00	-8.53	
324.6578	15.32	19.54	34.86	46.00	-11.14	
431.7838	12.04	22.96	35.00	46.00	-11.00	
160.5543	22.43	14.61	37.04	43.50	-6.46	Horizontal
217.6177	23.75	15.61	39.36	46.00	-6.64	
267.4864	20.22	18.44	38.66	46.00	-7.34	
324.6858	22.11	19.54	41.65	46.00	-4.35	
348.2740	18.87	20.60	39.47	46.00	-6.53	
431.7884	17.68	22.96	40.64	46.00	-5.36	

The spectral diagrams in appendix I display the measurement of peak values.

Note:

1. Remark “- “ means that the emission level is too low to be measured.
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:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

7. BAND EDGES

7.1.The Requirement

7.1.1.Band Edge from 2400MHz to 2483.5MHz. Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

7.2.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.

7.2.1. eBoard (EUT)

Model Number	:	HSTNX-001
Serial Number	:	N/A
Manufacturer	:	Hanshin International Limited

7.3.Operating Condition of EUT

7.3.1.Setup the EUT and simulator as shown as Section 7.1.

7.3.2.Turn on the power of all equipment.

7.3.3. Let the EUT work in TX modes measure it. The transmit frequency are 2411.2-2480.2MHz. We are select 2411.2MHz, 2480.2MHz TX frequency to transmit.

7.4.Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
RBW=1MHz, VBW=1MHz

7.5.The Measurement Result

Pass.

Date of Test:	October 21, 2008	Temperature:	25°C
EUT:	eBoard	Humidity:	52%
Model No.:	HSTNX-001	Power Supply:	DC 12V (Adapter input) Adapter power: AC120V/60Hz
Test Mode:	TX 2411.2MHz	Test Engineer:	Joe

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2394.041	43.53	55.27	-7.50	36.03	47.77	54	74	-17.97	-26.23	Vertical
2400.000	43.68	55.30	-7.46	36.22	47.84	54	74	-17.78	-26.16	
2397.888	45.75	57.12	-7.48	38.27	49.64	54	74	-15.73	-24.36	Horizontal
2398.988	45.03	56.26	-7.46	37.57	48.80	54	74	-16.43	-25.20	
2400.000	42.77	54.02	-7.46	35.31	46.56	54	74	-18.69	-27.44	

The spectral diagrams in appendix I display the measurement of peak values.

Note:

1. The emission emitted by the EUT is too low to be measured except the emission listed above.
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:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

Date of Test:	October 21, 2008	Temperature:	25°C
EUT:	eBoard	Humidity:	52%
Model No.:	HSTNX-001	Power Supply:	DC 12V (Adapter input)
			Adapter power: AC120V/60Hz
Test Mode:	TX 2480.2MHz	Test Engineer:	Joe

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	52.72	63.25	-7.37	45.35	55.88	54	74	-8.65	-18.12	Vertical
2484.212	51.87	62.34	-7.38	44.49	54.96	54	74	-9.51	-19.04	
2484.814	50.09	60.92	-7.38	42.71	53.54	54	74	-11.29	-20.46	
2483.500	51.36	62.78	-7.37	43.99	55.41	54	74	-10.01	-18.59	Horizontal
2483.871	51.03	62.55	-7.38	43.65	55.17	54	74	-10.35	-18.83	
2484.413	52.14	63.34	-7.38	44.76	55.96	54	74	-9.24	-18.04	

The spectral diagrams in appendix I display the measurement of peak values.

Note:

1. The emission emitted by the EUT is too low to be measured except the emission listed above.
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:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

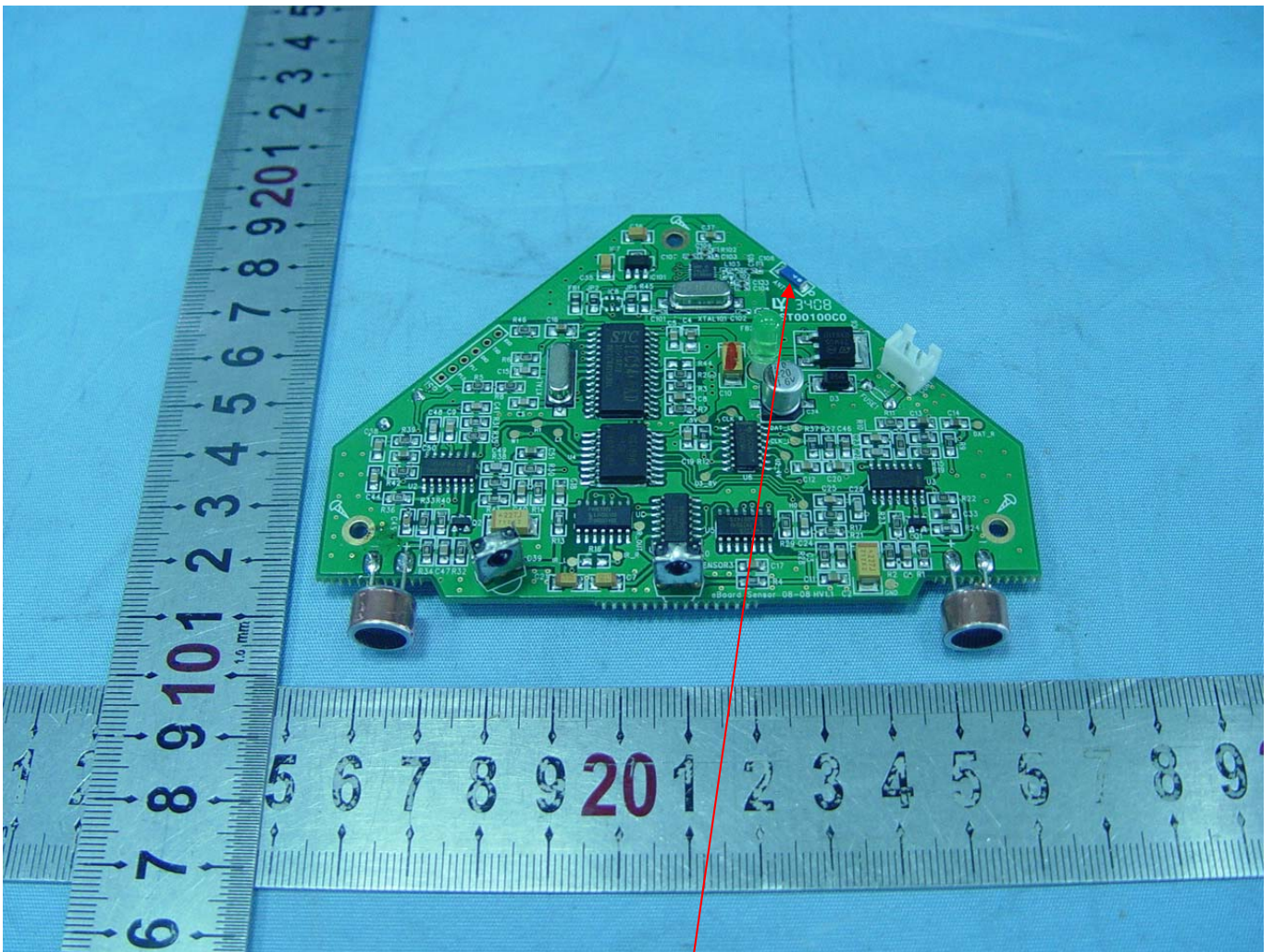
8. ANTENNA REQUIREMENT

8.1.The Requirement

8.1.1. According to Section 15.203, 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.

8.2.Antenna Construction

The transmitter utilizes SMD chip antenna, no consideration of replacement.



Antenna

APPENDIX I (Test Curves)

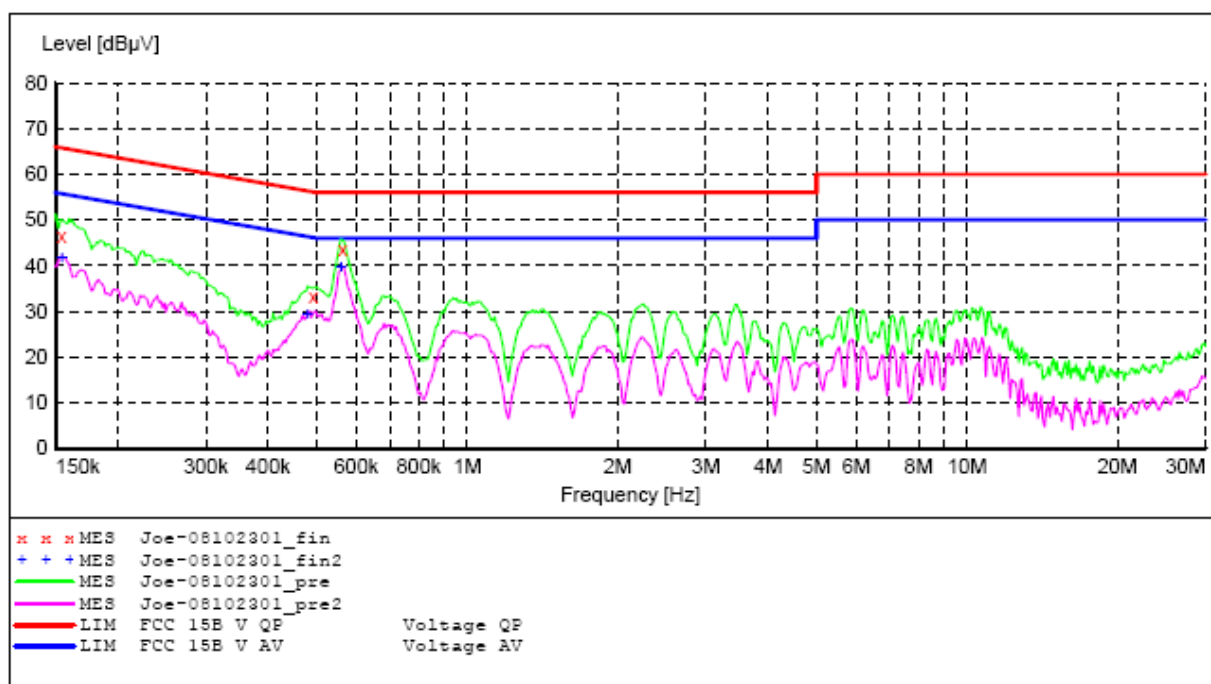
SHENZHEN ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15

EUT: eBoard M/N:HSTNX-001
 Manufacturer: Hanshin
 Operating Condition: TX 2411.2MHz
 Test Site: 1#Shielding Room
 Operator: Joe
 Test Specification: Va 120V/60Hz Sample No.:083785 Report No.:ATE20082001

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

Short Description: Conducted emission
 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: "Joe-08102301_fin"

10/23/2008 09:08AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	46.60	11.0	66	19.2	QP	N	GND
0.492000	33.40	12.0	56	22.7	QP	N	GND
0.564000	43.70	12.0	56	12.3	QP	N	GND

MEASUREMENT RESULT: "Joe-08102301_fin2"

10/23/2008 09:08AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	42.00	11.0	56	13.8	AV	N	GND
0.478500	29.50	12.0	46	16.9	AV	N	GND
0.559500	39.70	12.0	46	6.3	AV	N	GND

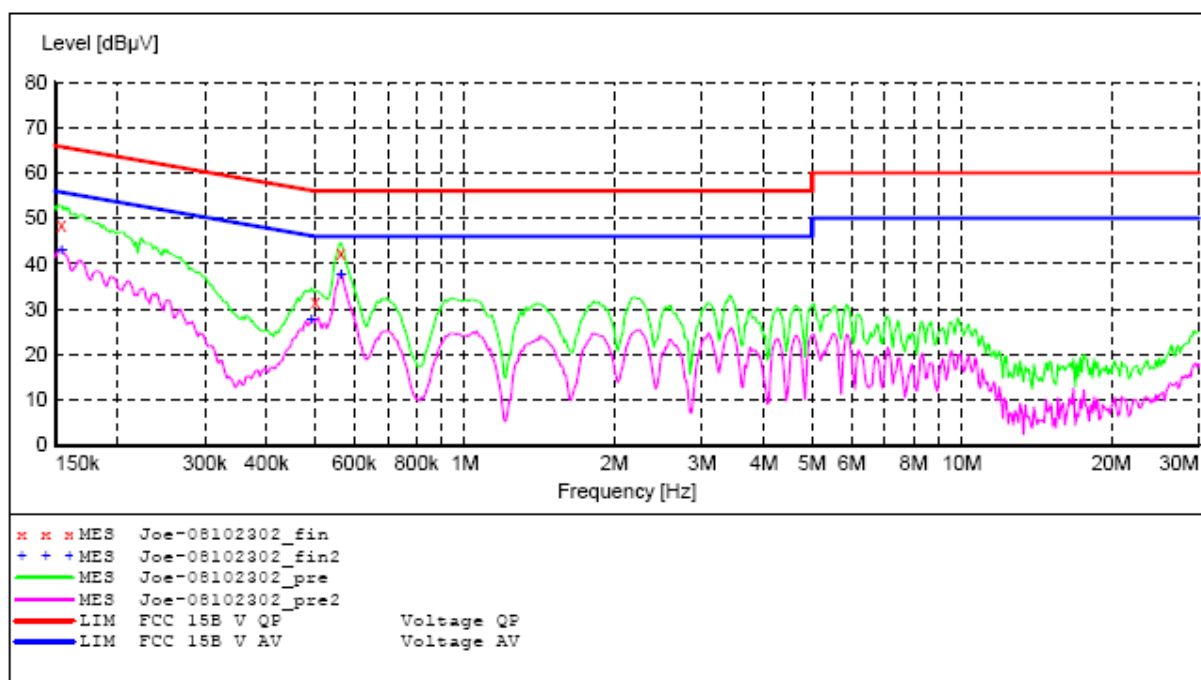
SHENZHEN ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART15

EUT: eBoard M/N:HSTNX-001
 Manufacturer: Hanshin
 Operating Condition: TX 2411.2MHz
 Test Site: 1#Shielding Room
 Operator: Joe
 Test Specification: Vb 120V/60Hz Sample No.:083785 Report No.:ATE20082001

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

Short Description: Conducted emission
 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: "Joe-08102302_fin"

10/23/2008 09:23AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	48.60	11.0	66	17.2	QP	L1	GND
0.501000	31.70	12.0	56	24.3	QP	L1	GND
0.564000	42.50	12.0	56	13.5	QP	L1	GND

MEASUREMENT RESULT: "Joe-08102302_fin2"

10/23/2008 09:23AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	43.00	11.0	56	12.8	AV	L1	GND
0.492000	27.70	12.0	46	18.4	AV	L1	GND
0.564000	37.80	12.0	46	8.2	AV	L1	GND

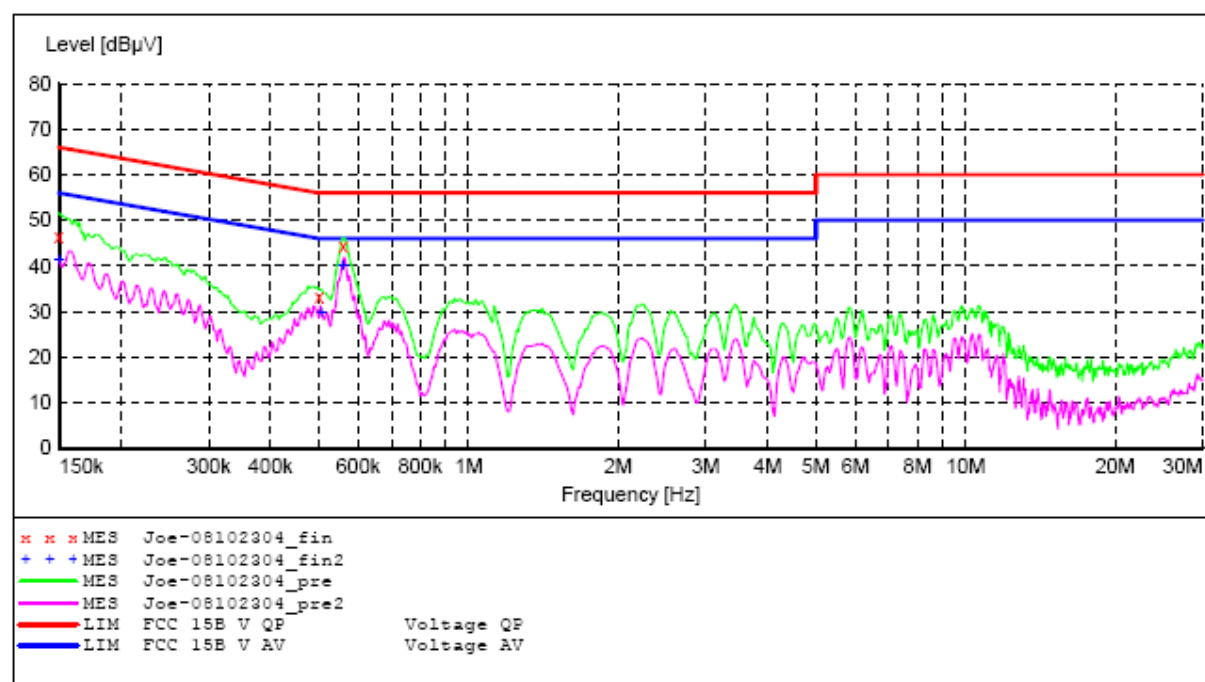
SHENZHEN ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15

EUT: eBoard M/N:HSTNX-001
 Manufacturer: Hanshin
 Operating Condition: TX 2447.2MHz
 Test Site: 1#Shielding Room
 Operator: Joe
 Test Specification: Va 120V/60Hz Sample No.:083785 Report No.:ATE20082001

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

Short Description: Conducted emission
 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: "Joe-08102304_fin"

10/23/2008 09:44AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	46.40	11.0	66	19.6	QP	N	GND
0.501000	33.20	12.0	56	22.8	QP	N	GND
0.559500	44.20	12.0	56	11.8	QP	N	GND

MEASUREMENT RESULT: "Joe-08102304_fin2"

10/23/2008 09:44AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	41.40	11.0	56	14.6	AV	N	GND
0.505500	29.80	12.0	46	16.2	AV	N	GND
0.559500	40.20	12.0	46	5.8	AV	N	GND

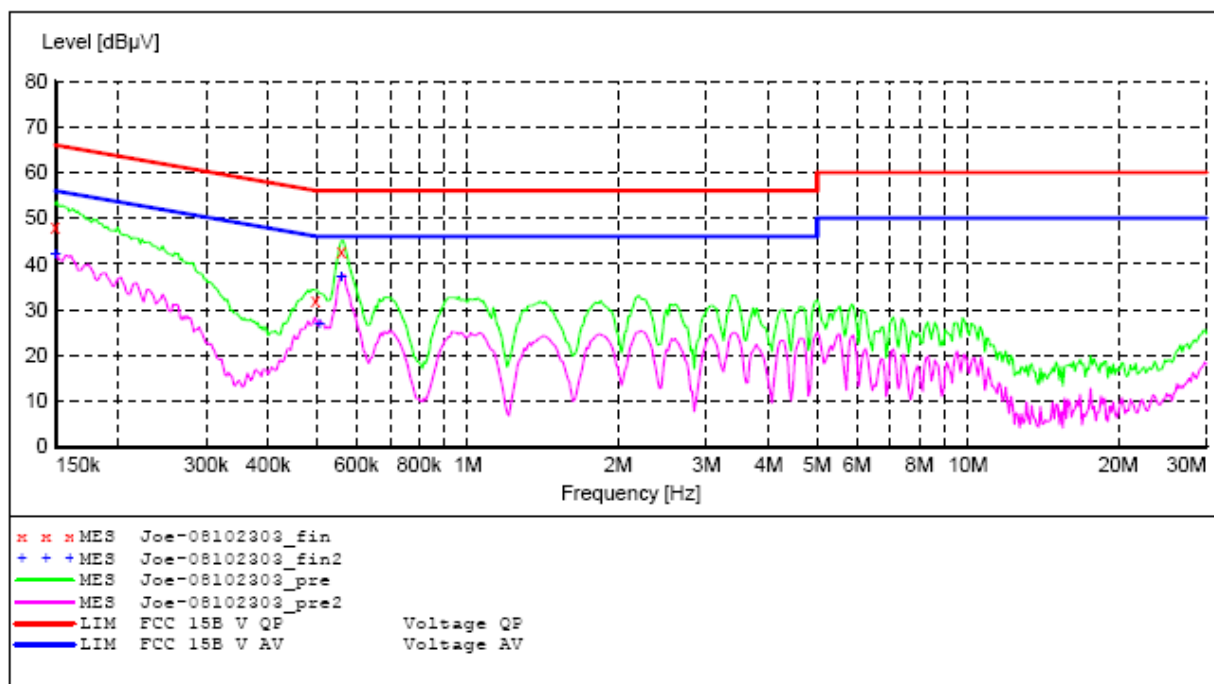
SHENZHEN ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15

EUT: eBoard M/N:HSTNX-001
 Manufacturer: Hanshin
 Operating Condition: TX 2447.2MHz
 Test Site: 1#Shielding Room
 Operator: Joe
 Test Specification: Vb 120V/60Hz Sample No.:083785 Report No.:ATE20082001

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

Short Description: Conducted emission
 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: "Joe-08102303_fin"

10/23/2008 09:34AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	48.30	11.0	66	17.7	QP	L1	GND
0.496500	32.20	12.0	56	23.9	QP	L1	GND
0.559500	42.60	12.0	56	13.4	QP	L1	GND

MEASUREMENT RESULT: "Joe-08102303_fin2"

10/23/2008 09:34AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	42.20	11.0	56	13.8	AV	L1	GND
0.505500	27.10	12.0	46	18.9	AV	L1	GND
0.559500	37.20	12.0	46	8.2	AV	L1	GND

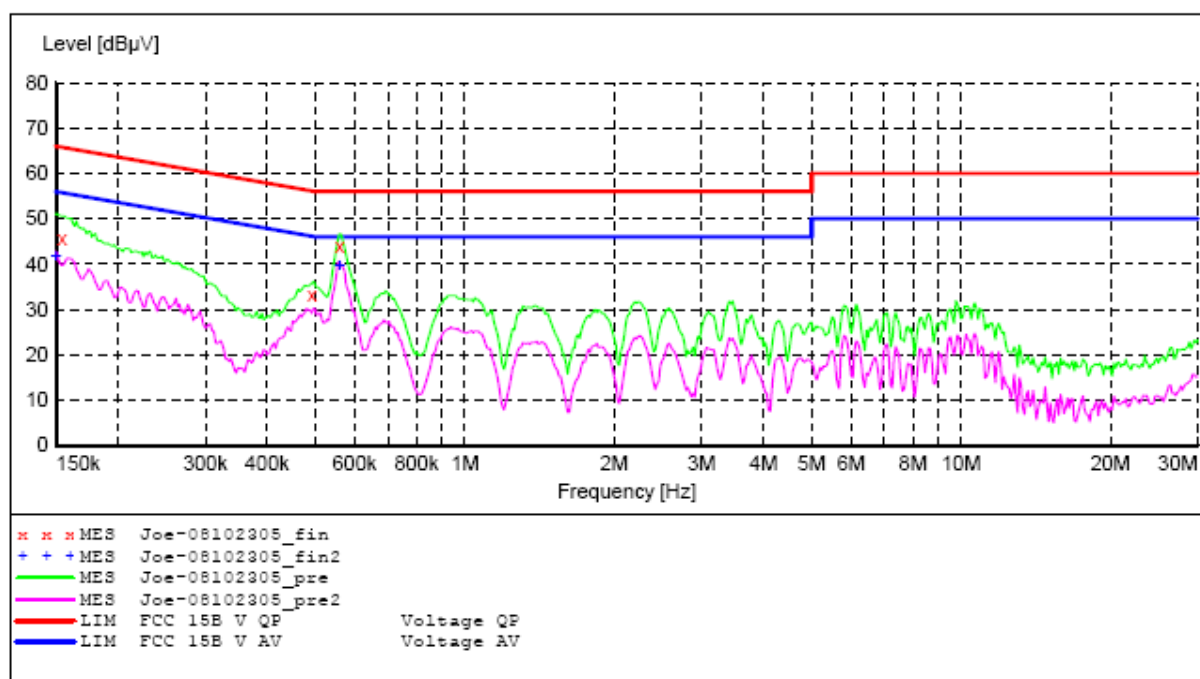
SHENZHEN ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15

EUT: eBoard M/N:HSTNX-001
 Manufacturer: Hanshin
 Operating Condition: TX 2480.2MHz
 Test Site: 1#Shielding Room
 Operator: Joe
 Test Specification: Va 120V/60Hz Sample No.:083785 Report No.:ATE20082001

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

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



MEASUREMENT RESULT: "Joe-08102305_fin"

10/23/2008 09:50AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	45.80	11.0	66	20.0	QP	N	GND
0.492000	33.40	12.0	56	22.7	QP	N	GND
0.559500	43.90	12.0	56	12.1	QP	N	GND

MEASUREMENT RESULT: "Joe-08102305_fin2"

10/23/2008 09:50AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	42.10	11.0	56	13.9	AV	N	GND
0.559500	40.00	12.0	46	6.0	AV	N	GND

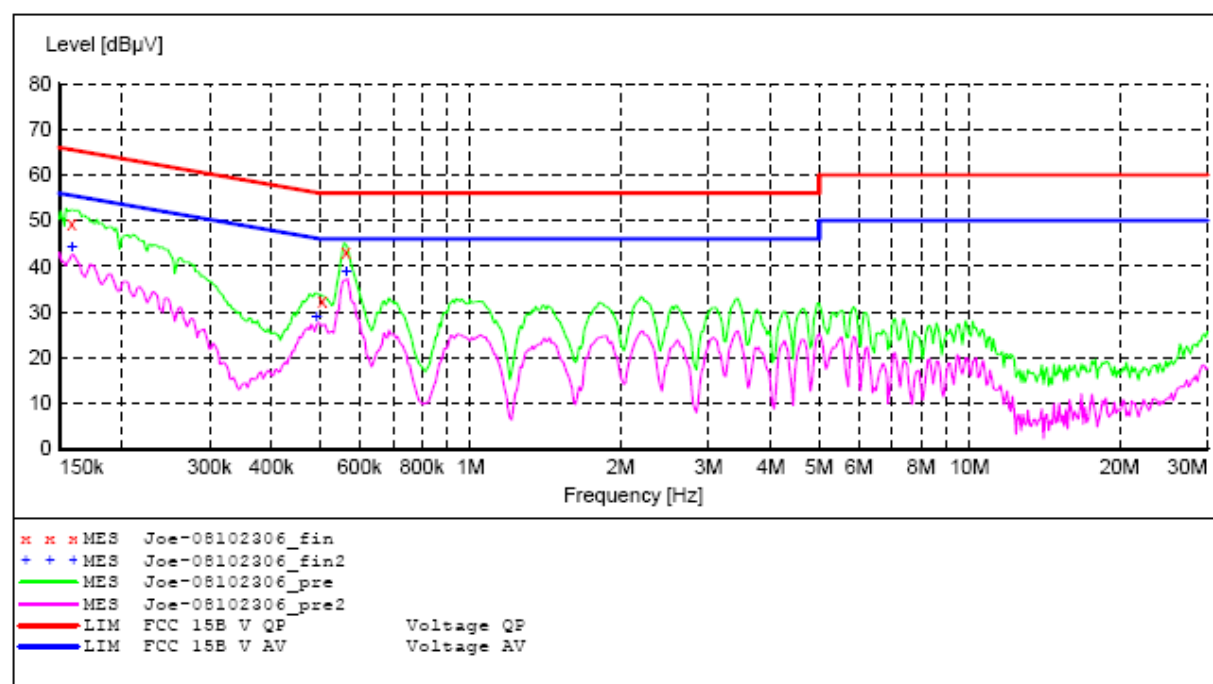
SHENZHEN ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART15

EUT: eBoard M/N:HSTNX-001
 Manufacturer: Hanshin
 Operating Condition: TX 2480.2MHz
 Test Site: 1#Shielding Room
 Operator: Joe
 Test Specification: Vb 120V/60Hz Sample No.:083785 Report No.:ATE20082001

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

Short Description: Conducted emission
 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 NSLK6126 2008
 Average



MEASUREMENT RESULT: "Joe-08102306_fin"

10/23/2008 09:55AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.159000	49.20	11.0	66	16.3	QP	L1	GND
0.505500	32.50	12.0	56	23.5	QP	L1	GND
0.564000	43.10	12.0	56	12.9	QP	L1	GND

MEASUREMENT RESULT: "Joe-08102306_fin2"

10/23/2008 09:55AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.159000	44.20	11.0	56	11.3	AV	L1	GND
0.492000	29.30	12.0	46	16.8	AV	L1	GND
0.564000	39.20	12.0	46	6.8	AV	L1	GND


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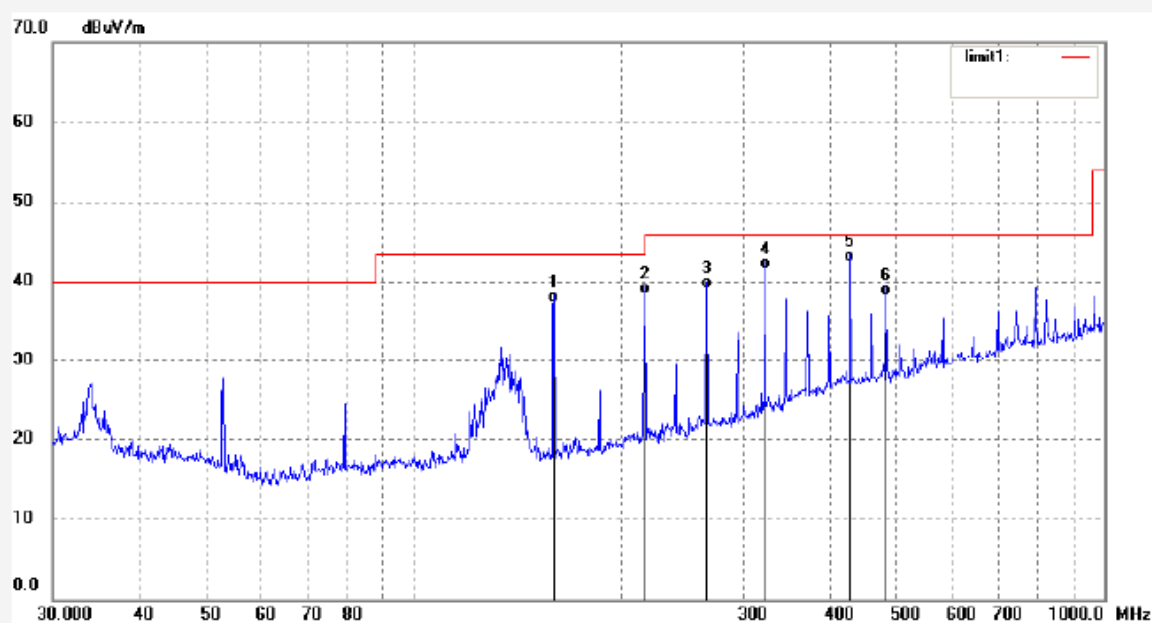
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

 Job No.: RTTE #611
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 52 %
 EUT: eBoard
 Mode: TX 2411.2MHz
 Model: HSTNX-001
 Manufacturer: Hanshin

 Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 08/10/18/
 Time: 10/00/12
 Engineer Signature: Joe
 Distance: 3m

Note: Sample No.:083785 Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	160.5506	22.76	14.61	37.37	43.50	-6.13	QP	
2	217.6198	22.75	15.61	38.36	46.00	-7.64	QP	
3	267.4835	20.61	18.44	39.05	46.00	-6.95	QP	
4	324.6896	22.03	19.54	41.57	46.00	-4.43	QP	
5	431.7859	19.51	22.96	42.47	46.00	-3.53	QP	
6	486.5060	14.31	23.91	38.22	46.00	-7.78	QP	


ACCURATE TECHNOLOGY CO., LTD.

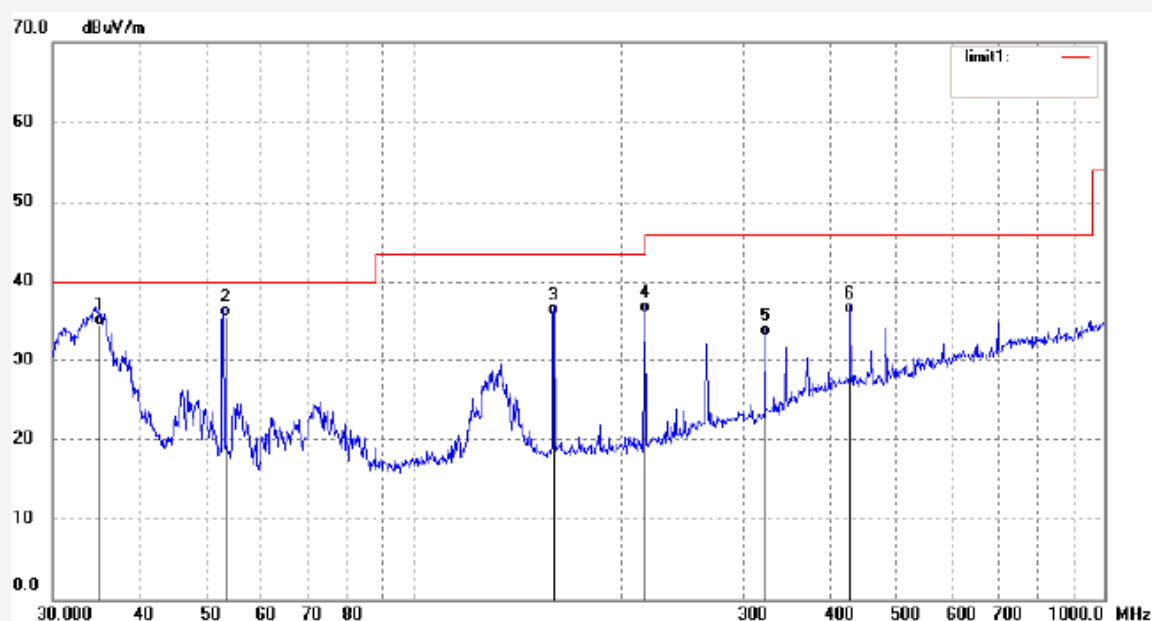
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

 Job No.: RTTE #612
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 52 %
 EUT: eBoard
 Mode: TX 2411.2MHz
 Model: HSTNX-001
 Manufacturer: Hanshin

 Polarization: Vertical
 Power Source: AC 120V/60Hz
 Date: 08/10/18/
 Time: 10/02/14
 Engineer Signature: Joe
 Distance: 3m

Note: Sample No.:083785 Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	35.2060	15.92	18.64	34.56	40.00	-5.44	QP	
2	53.4556	22.03	13.65	35.68	40.00	-4.32	QP	
3	160.5469	21.25	14.61	35.86	43.50	-7.64	QP	
4	217.6194	20.49	15.61	36.10	46.00	-9.90	QP	
5	324.6921	13.68	19.54	33.22	46.00	-12.78	QP	
6	431.7917	13.01	22.96	35.97	46.00	-10.03	QP	


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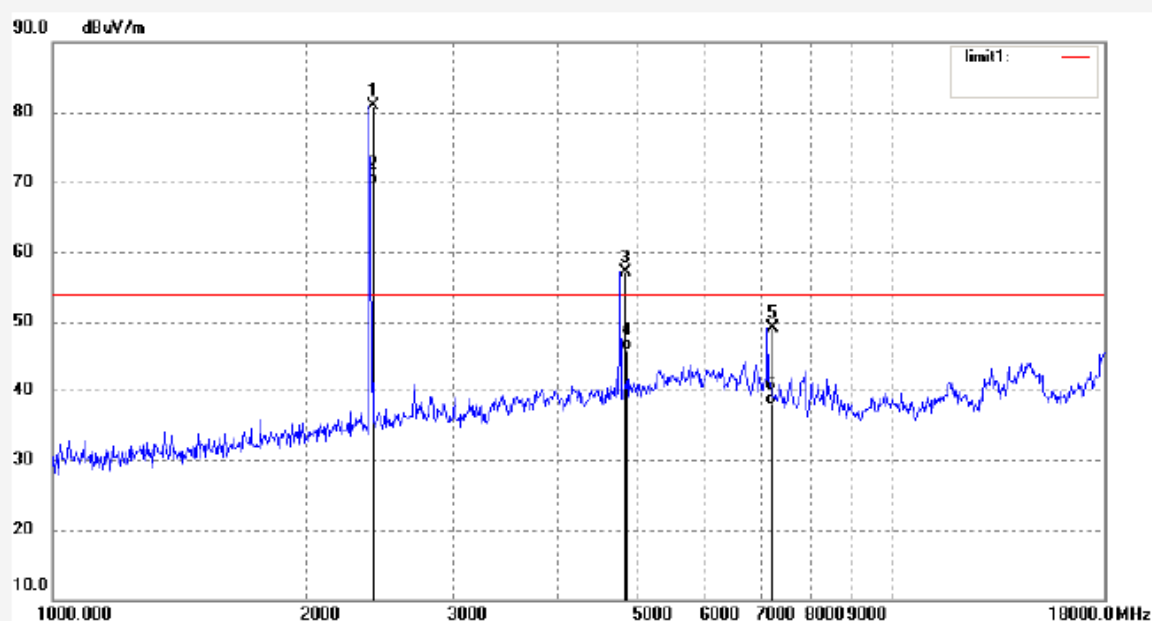
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

 Job No.: RTTE #634
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 52 %
 EUT: eBoard
 Mode: TX 2411.2MHz
 Model: HSTNX-001
 Manufacturer: Hanshin

 Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 08/10/20/
 Time: 10/46/22
 Engineer Signature: Joe
 Distance: 3m

Note: Sample No.:083785 Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2411.196	88.34	-7.43	80.91	114.00	-33.09	peak	
2	2411.196	77.06	-7.43	69.63	94.00	-24.37	AVG	
3	4822.396	57.36	-0.19	57.17	74.00	-16.83	peak	
4	4822.396	46.11	-0.19	45.92	54.00	-8.08	AVG	
5	7233.594	46.16	3.04	49.20	74.00	-24.80	peak	
6	7233.594	34.84	3.04	37.88	54.00	-16.12	AVG	


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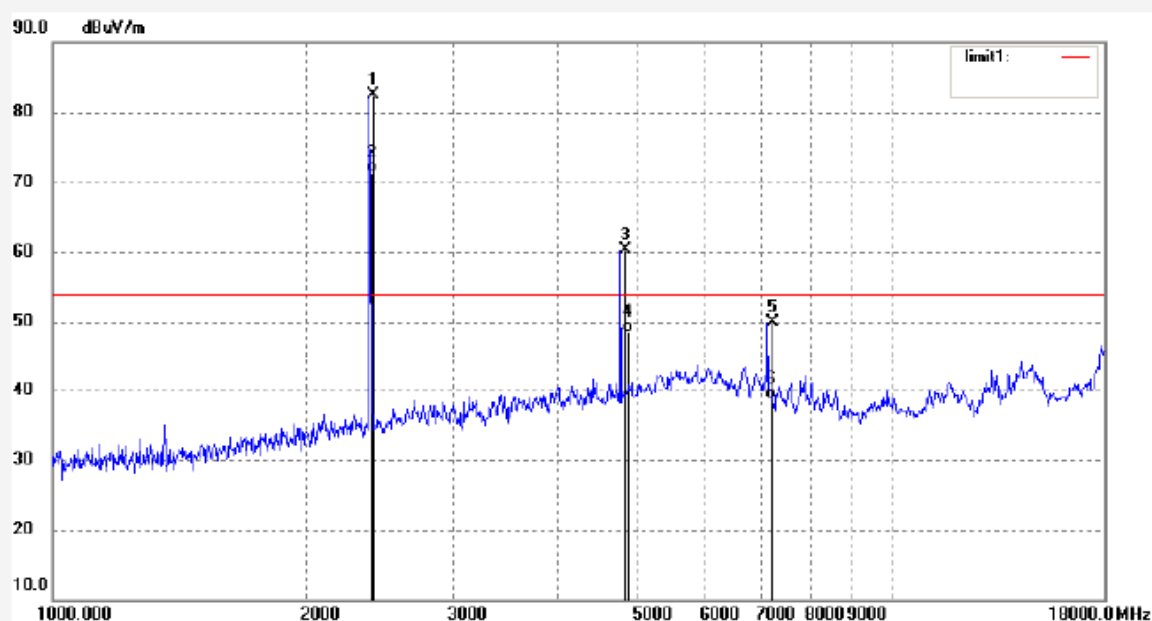
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

 Job No.: RTTE #633
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 52 %
 EUT: eBoard
 Mode: TX 2411.2MHz
 Model: HSTNX-001
 Manufacturer: Hanshin

 Polarization: Vertical
 Power Source: AC 120V/60Hz
 Date: 08/10/20/
 Time: 10/44/01
 Engineer Signature: Joe
 Distance: 3m

Note: Sample No.:083785 Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2411.197	90.00	-7.43	82.57	114.00	-31.43	peak	
2	2411.197	78.69	-7.43	71.26	94.00	-22.74	AVG	
3	4822.396	60.51	-0.19	60.32	74.00	-13.68	peak	
4	4822.396	48.71	-0.19	48.52	54.00	-5.48	AVG	
5	7233.594	46.81	3.04	49.85	74.00	-24.15	peak	
6	7233.594	35.63	3.04	38.67	54.00	-15.33	AVG	


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

Job No.: RTTE #652

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: eBoard

Mode: TX 2411.2MHz

Model: HSTNX-001

Manufacturer: Hanshin

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 2008/10/21

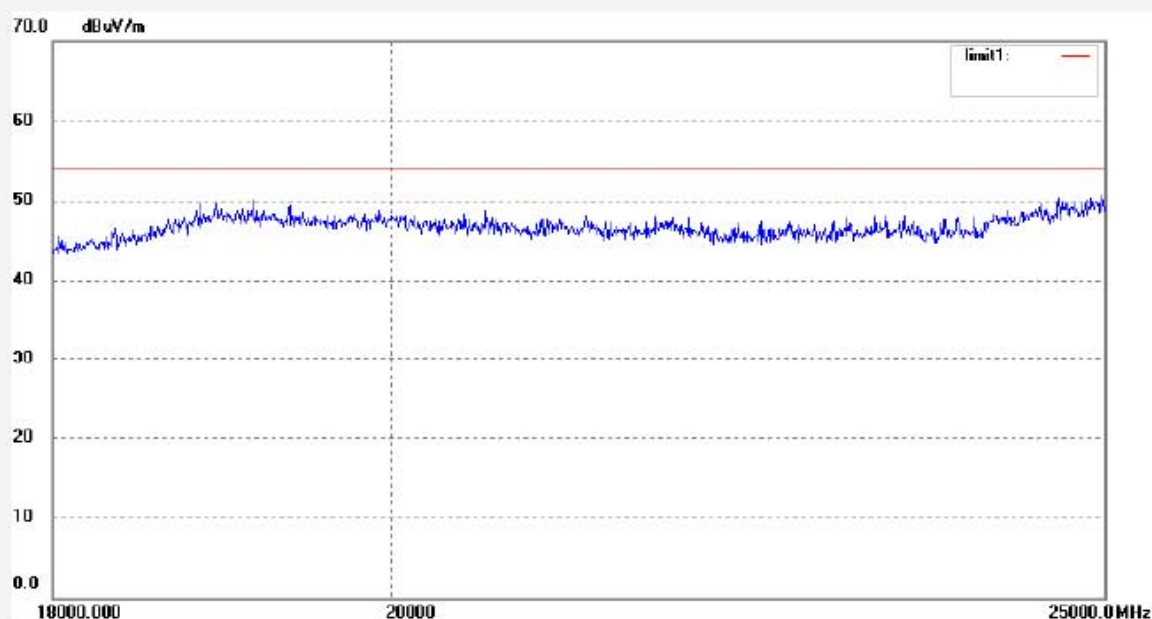
Time: 16:43:16

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083785

Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	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.: RTTE #651

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: eBoard

Mode: TX 2411.2MHz

Model: HSTNX-001

Manufacturer: Hanshin

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2008/10/21

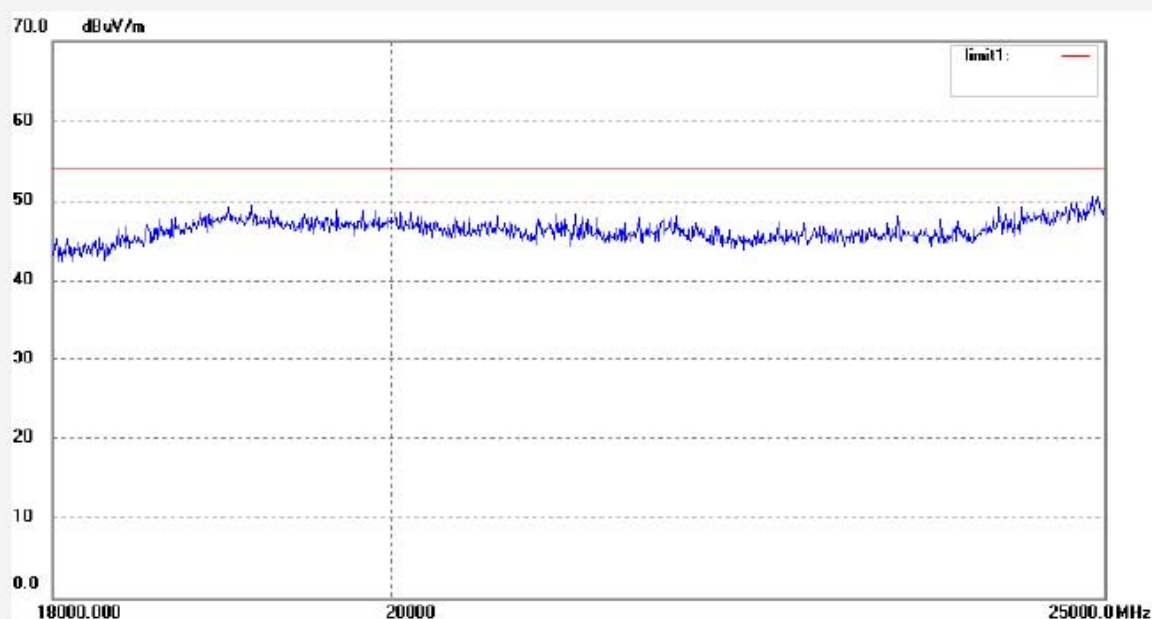
Time: 16:40:24

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083785

Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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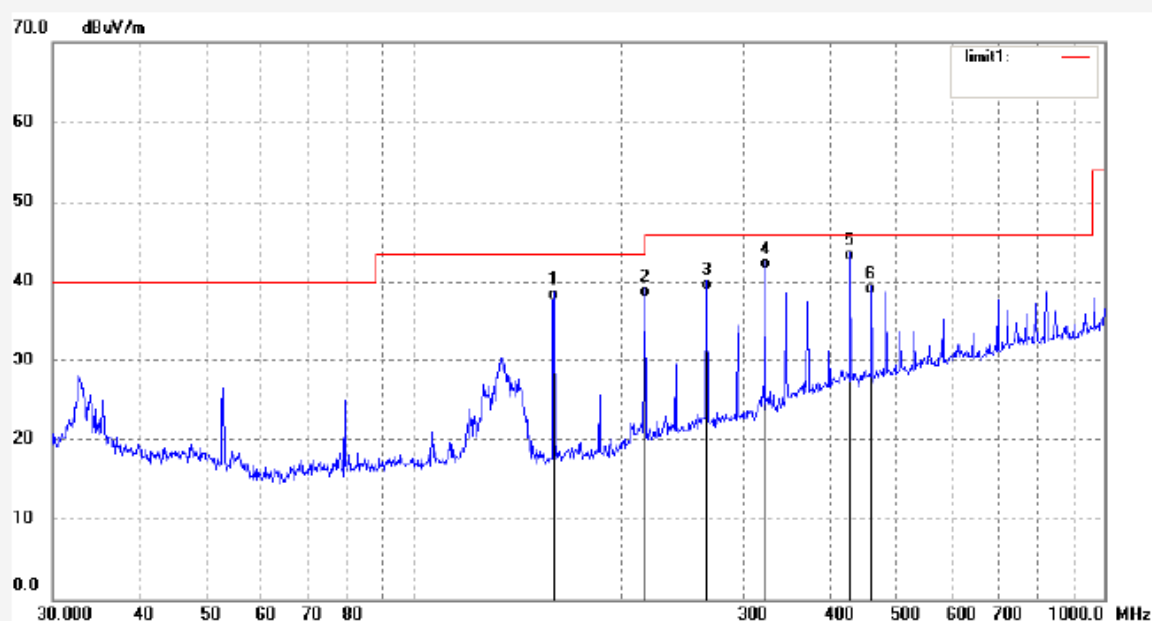
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: RTTE #614
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 52 %
EUT: eBoard
Mode: TX 2447.2MHz
Model: HSTNX-001
Manufacturer: Hanshin

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 08/10/18/
Time: 10/19/03
Engineer Signature: Joe
Distance: 3m

Note: Sample No.:083785 Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	160.5552	23.03	14.61	37.64	43.50	-5.86	QP	
2	217.6231	22.53	15.61	38.14	46.00	-7.86	QP	
3	267.4849	20.48	18.44	38.92	46.00	-7.08	QP	
4	324.6889	22.04	19.54	41.58	46.00	-4.42	QP	
5	431.7874	19.63	22.96	42.59	46.00	-3.41	QP	
6	462.4122	15.14	23.33	38.47	46.00	-7.53	QP	



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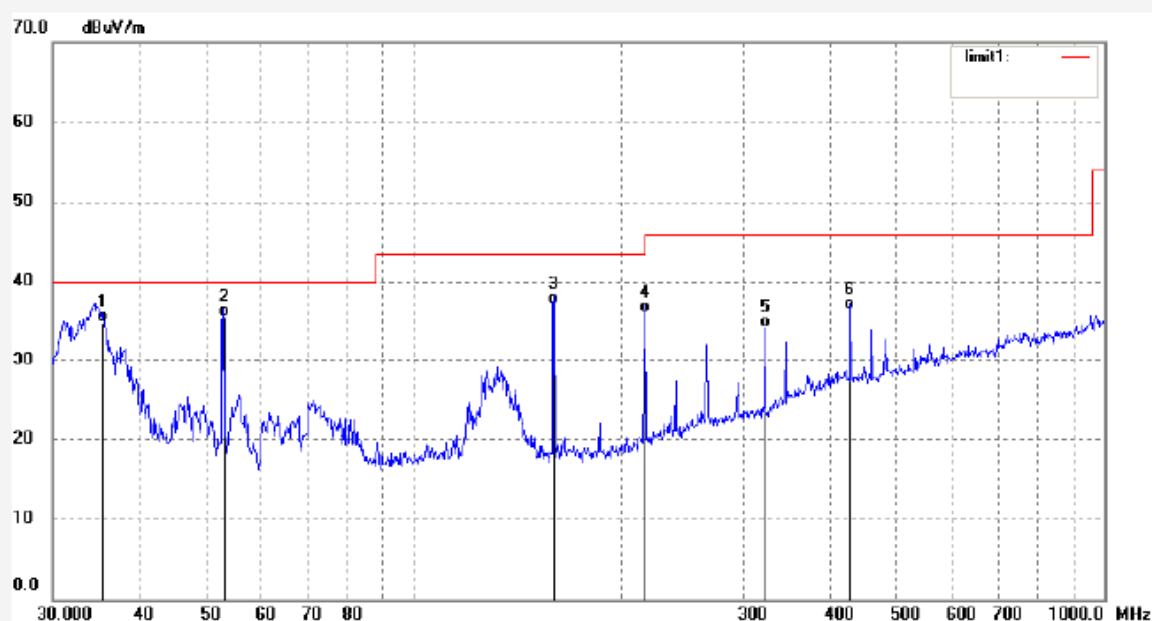
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: RTTE #613
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 52 %
EUT: eBoard
Mode: TX 2447.2MHz
Model: HSTNX-001
Manufacturer: Hanshin

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 08/10/18/
Time: 10/14/13
Engineer Signature: Joe
Distance: 3m

Note: Sample No.:083785 Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	35.1957	16.28	18.64	34.92	40.00	-5.08	QP	
2	53.4541	21.98	13.65	35.63	40.00	-4.37	QP	
3	160.5502	22.66	14.61	37.27	43.50	-6.23	QP	
4	217.6219	20.49	15.61	36.10	46.00	-9.90	QP	
5	322.5896	14.79	19.45	34.24	46.00	-11.76	QP	
6	431.7879	13.48	22.96	36.44	46.00	-9.56	QP	


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

Job No.: RTTE #631

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: eBoard

Mode: TX 2447.2MHz

Model: HSTNX-001

Manufacturer: Hanshin

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 08/10/20/

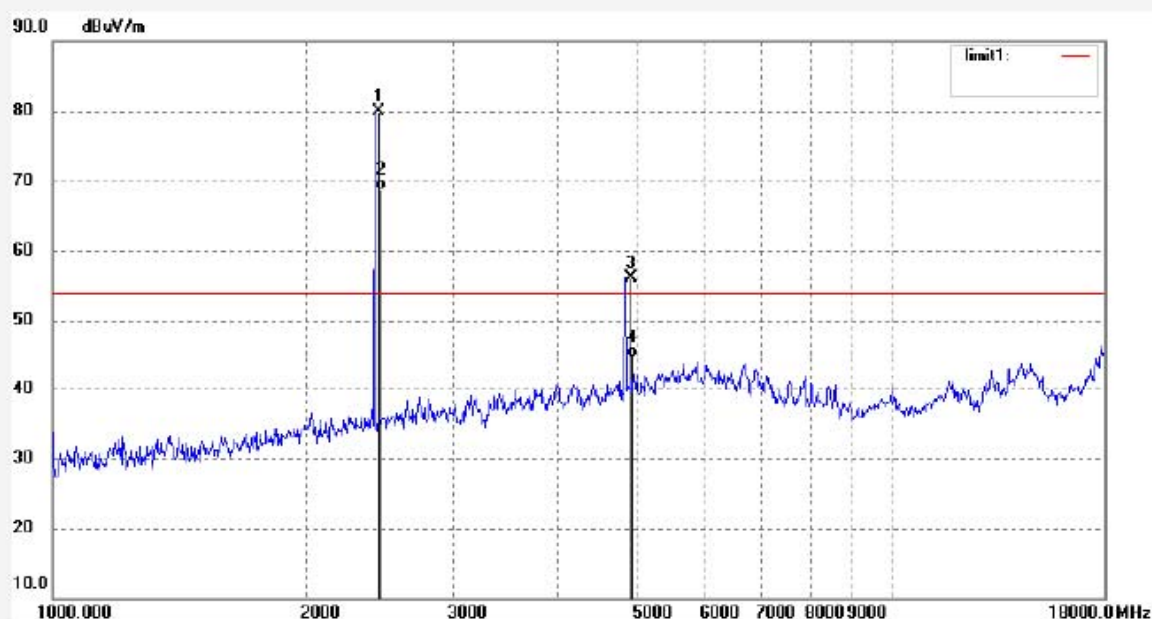
Time: 10/37/33

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083785

Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2447.199	87.22	-7.34	79.88	114.00	-34.12	peak	
2	2447.199	76.01	-7.34	68.67	94.00	-25.33	AVG	
3	4894.401	55.90	0.21	56.11	74.00	-17.89	peak	
4	4894.401	44.48	0.21	44.69	54.00	-9.31	AVG	


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

Job No.: RTTE #632

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: eBoard

Mode: TX 2447.2MHz

Model: HSTNX-001

Manufacturer: Hanshin

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 08/10/20/

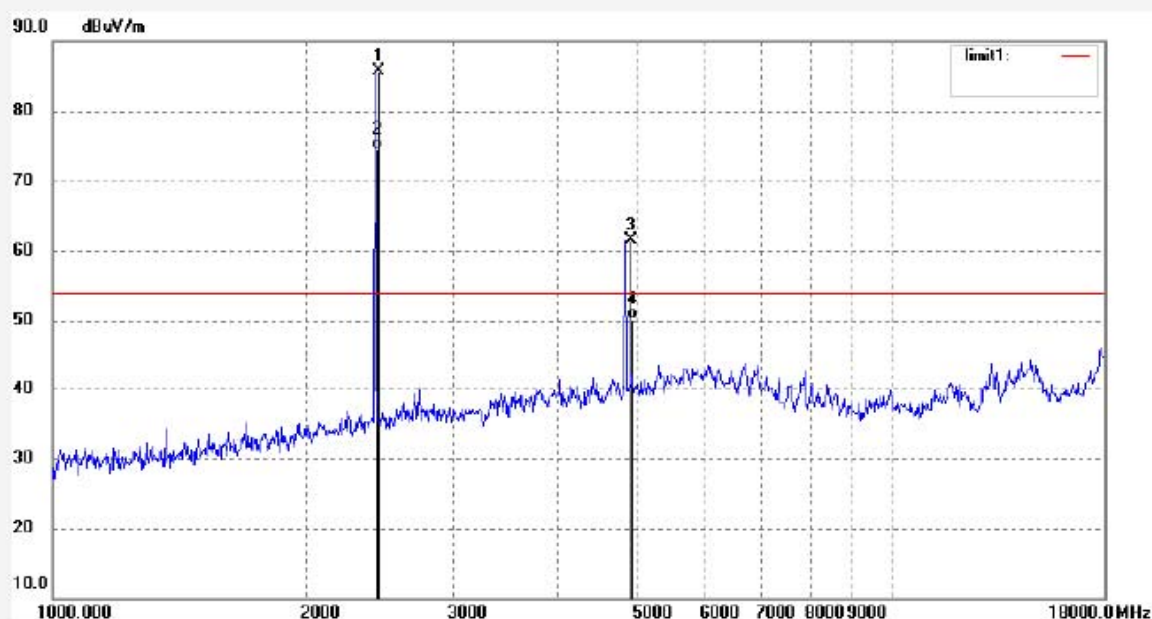
Time: 10/40/42

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083785

Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2447.199	93.04	-7.34	85.70	114.00	-28.30	peak	
2	2447.199	81.88	-7.34	74.54	94.00	-19.46	AVG	
3	4894.401	61.20	0.21	61.41	74.00	-12.59	peak	
4	4894.401	49.86	0.21	50.07	54.00	-3.93	AVG	


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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.: RTTE #653

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: eBoard

Mode: TX 2447.2MHz

Model: HSTNX-001

Manufacturer: Hanshin

Polarization: Horizontal

Power Source: AC 120V/60Hz

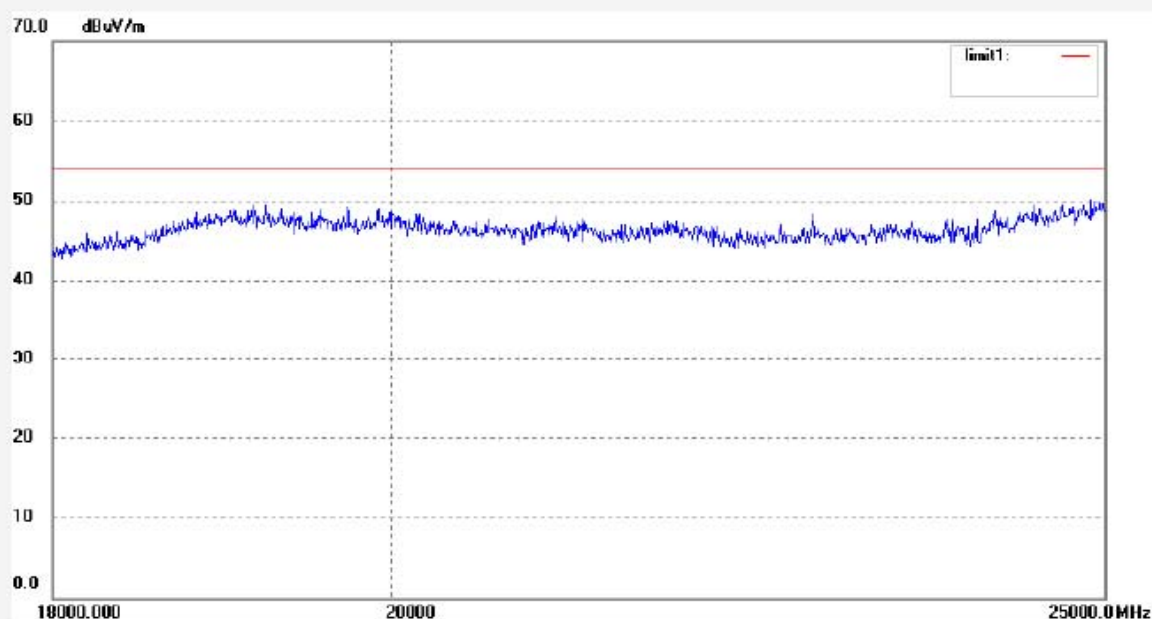
Date: 2008/10/21

Time: 16:46:59

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083785 Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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 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.: RTTE #654

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: eBoard

Mode: TX 2447.2MHz

Model: HSTNX-001

Manufacturer: Hanshin

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2008/10/21

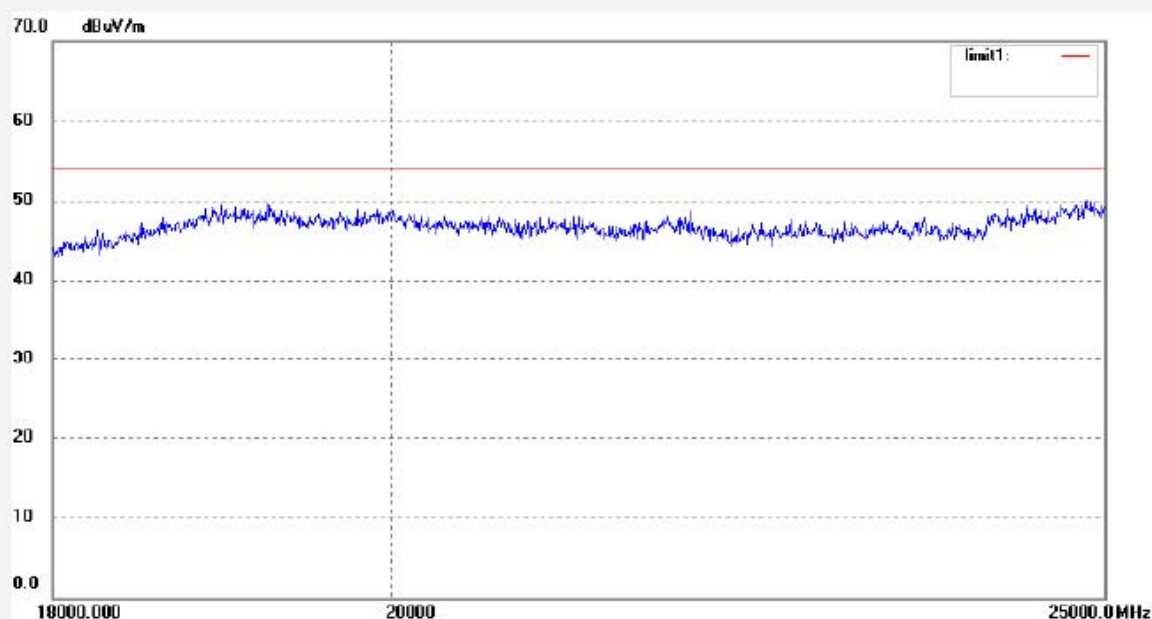
Time: 16:50:12

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083785

Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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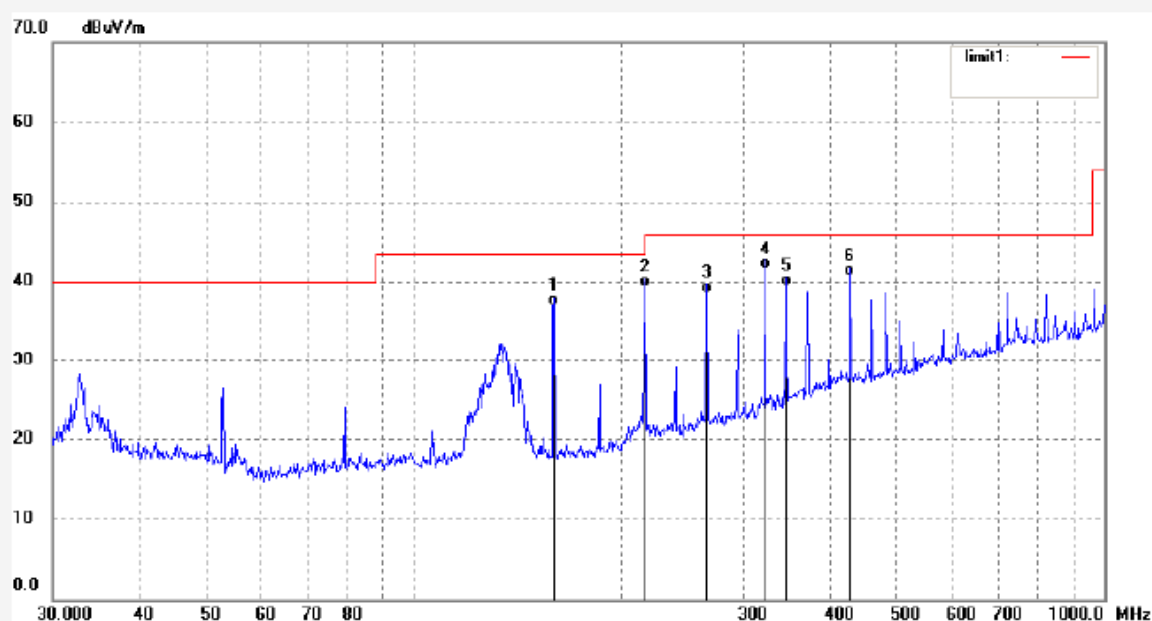
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: RTTE #615
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 52 %
EUT: eBoard
Mode: TX 2480.2MHz
Model: HSTNX-001
Manufacturer: Hanshin

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 08/10/18/
Time: 10/23/53
Engineer Signature: Joe
Distance: 3m

Note: Sample No.:083785 Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	160.5543	22.43	14.61	37.04	43.50	-6.46	QP	
2	217.6177	23.75	15.61	39.36	46.00	-6.64	QP	
3	267.4864	20.22	18.44	38.66	46.00	-7.34	QP	
4	324.6858	22.11	19.54	41.65	46.00	-4.35	QP	
5	348.2740	18.87	20.60	39.47	46.00	-6.53	QP	
6	431.7884	17.68	22.96	40.64	46.00	-5.36	QP	



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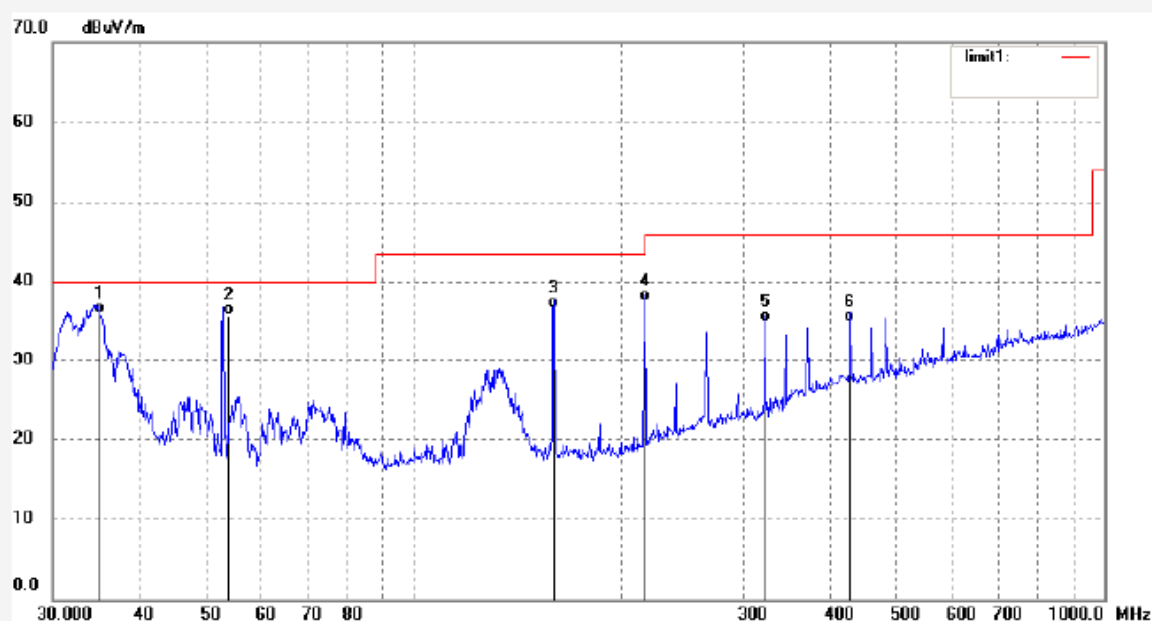
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: RTTE #616
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 52 %
EUT: eBoard
Mode: TX 2480.2MHz
Model: HSTNX-001
Manufacturer: Hanshin

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 08/10/18/
Time: 10/26/51
Engineer Signature: Joe
Distance: 3m

Note: Sample No.:083785 Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	35.1988	17.31	18.64	35.95	40.00	-4.05	QP	
2	53.4439	22.10	13.66	35.76	40.00	-4.24	QP	
3	160.5520	22.01	14.61	36.62	43.50	-6.88	QP	
4	217.6153	21.86	15.61	37.47	46.00	-8.53	QP	
5	324.6578	15.32	19.54	34.86	46.00	-11.14	QP	
6	431.7838	12.04	22.96	35.00	46.00	-11.00	QP	


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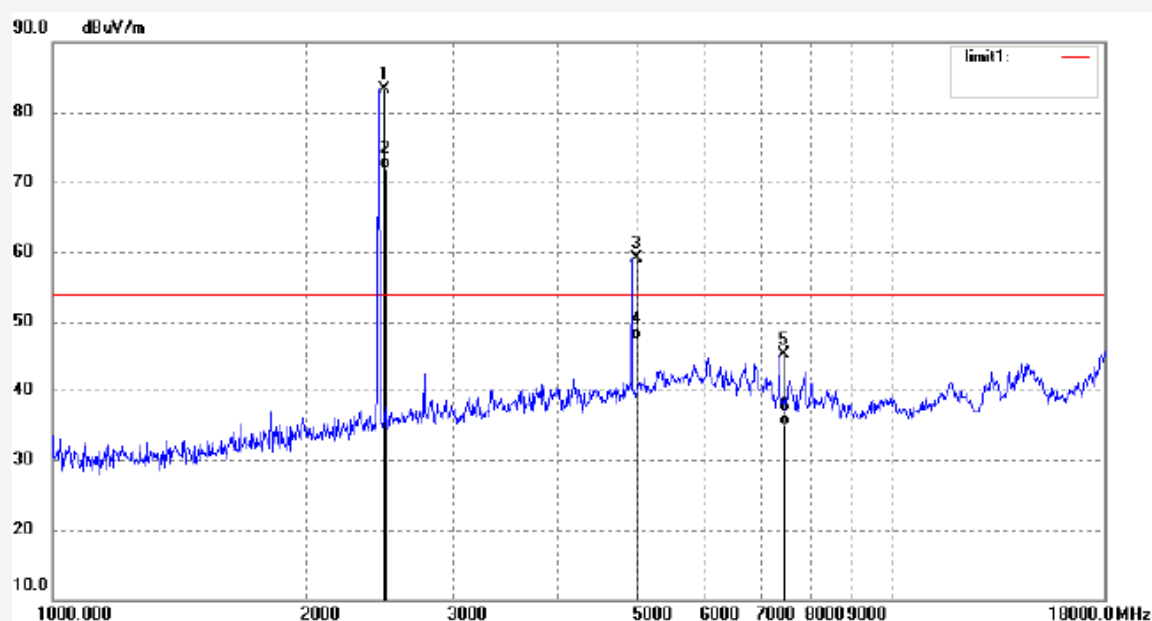
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

 Job No.: RTTE #630
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 52 %
 EUT: eBoard
 Mode: TX 2480.2MHz
 Model: HSTNX-001
 Manufacturer: Hanshin

 Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 08/10/20/
 Time: 10/31/02
 Engineer Signature: Joe
 Distance: 3m

Note: Sample No.:083785 Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2480.168	90.58	-7.37	83.21	114.00	-30.79	peak	
2	2480.168	79.26	-7.37	71.89	94.00	-22.11	AVG	
3	4960.312	58.62	0.52	59.14	74.00	-14.86	peak	
4	4960.312	46.97	0.52	47.49	54.00	-6.51	AVG	
5	7440.501	41.63	3.69	45.32	74.00	-28.68	peak	
6	7440.501	31.24	3.69	34.93	54.00	-19.07	AVG	



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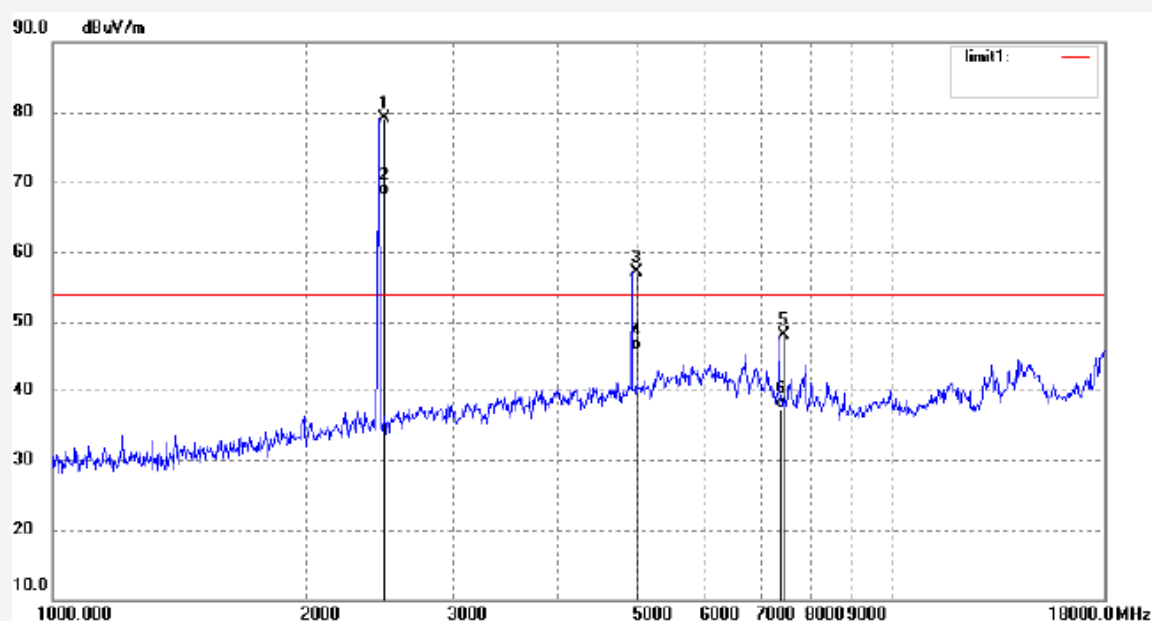
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: RTTE #629
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 52 %
EUT: eBoard
Mode: TX 2480.2MHz
Model: HSTNX-001
Manufacturer: Hanshin

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 08/10/20/
Time: 10/12/37
Engineer Signature: Joe
Distance: 3m

Note: Sample No.:083785 Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2480.168	86.54	-7.37	79.17	114.00	-34.83	peak	
2	2480.168	75.38	-7.37	68.01	94.00	-25.99	AVG	
3	4960.312	56.64	0.52	57.16	74.00	-16.84	peak	
4	4960.312	45.39	0.52	45.91	54.00	-8.09	AVG	
5	7440.501	44.38	3.69	48.07	74.00	-25.93	peak	
6	7440.501	33.61	3.69	37.30	54.00	-16.70	AVG	


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.: RTTE #656

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: eBoard

Mode: TX 2480.2MHz

Model: HSTNX-001

Manufacturer: Hanshin

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 2008/10/21

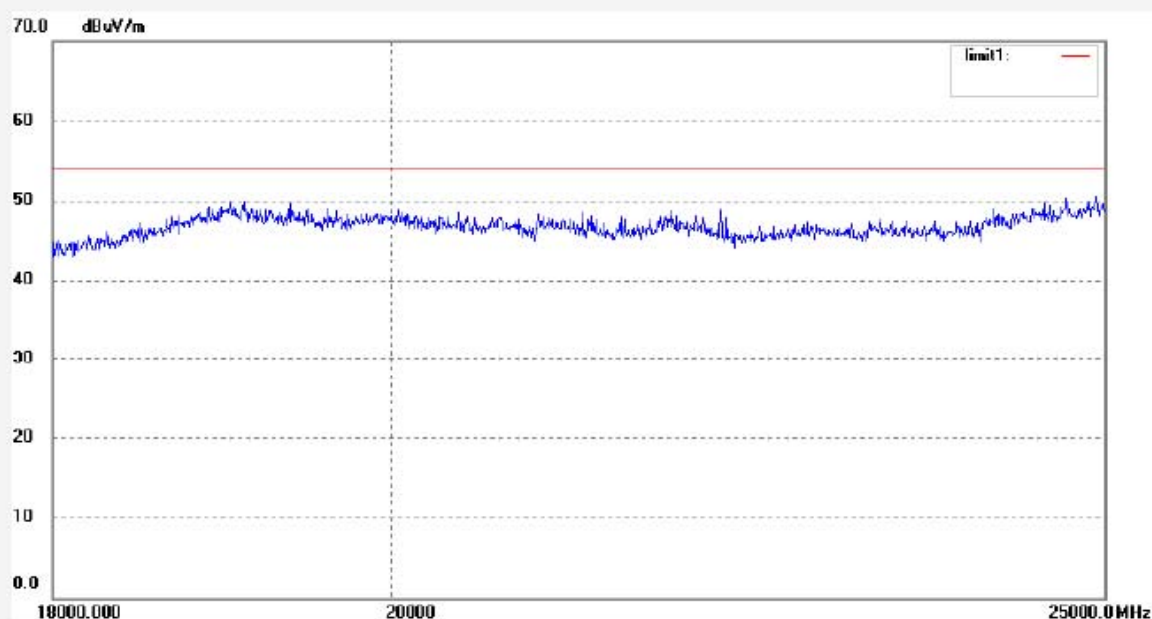
Time: 16:57:39

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083785

Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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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.: RTTE #655

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: eBoard

Mode: TX 2480.2MHz

Model: HSTNX-001

Manufacturer: Hanshin

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2008/10/21

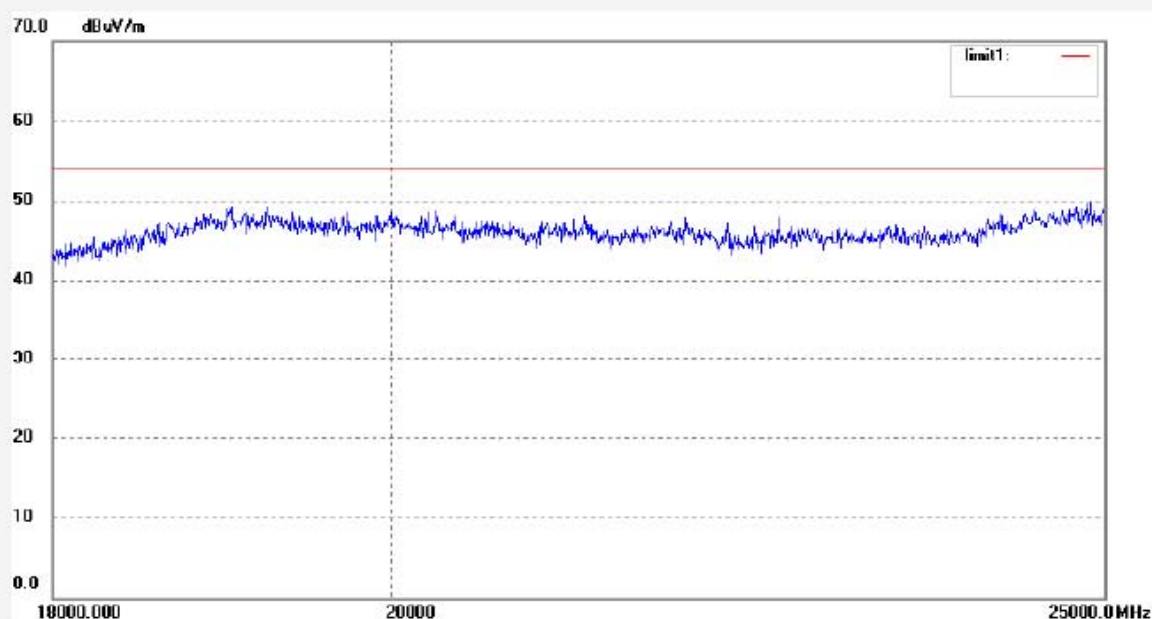
Time: 16:54:13

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083785

Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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ACCURATE TECHNOLOGY CO., LTD.

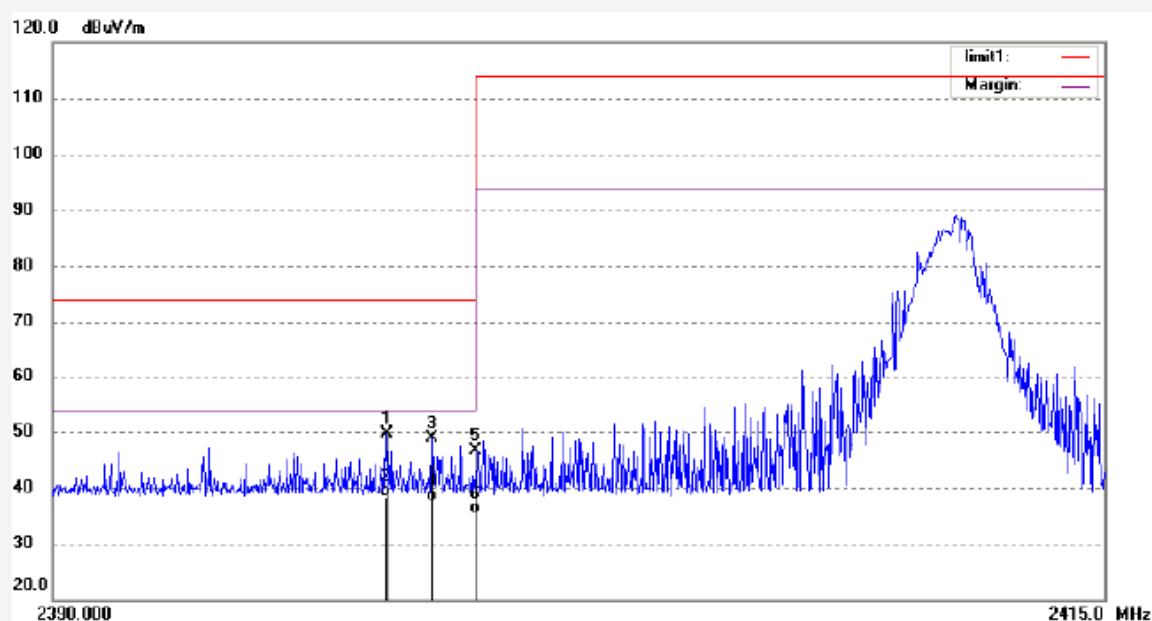
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: RTTE #637
Standard: FCC Part 15 PEAK 2.4G
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 52 %
EUT: eBoard
Mode: TX 2411.2MHz
Model: HSTNX-001
Manufacturer: Hanshin

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 08/10/21/
Time: 9/49/53
Engineer Signature: Joe
Distance: 3m

Note: Sample No.:083785 Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2397.888	57.12	-7.48	49.64	74.00	-24.36	peak	
2	2397.888	45.75	-7.48	38.27	54.00	-15.73	AVG	
3	2398.988	56.26	-7.46	48.80	74.00	-25.20	peak	
4	2398.988	45.03	-7.46	37.57	54.00	-16.43	AVG	
5	2400.000	54.02	-7.46	46.56	74.00	-27.44	peak	
6	2400.000	42.77	-7.46	35.31	54.00	-18.69	AVG	


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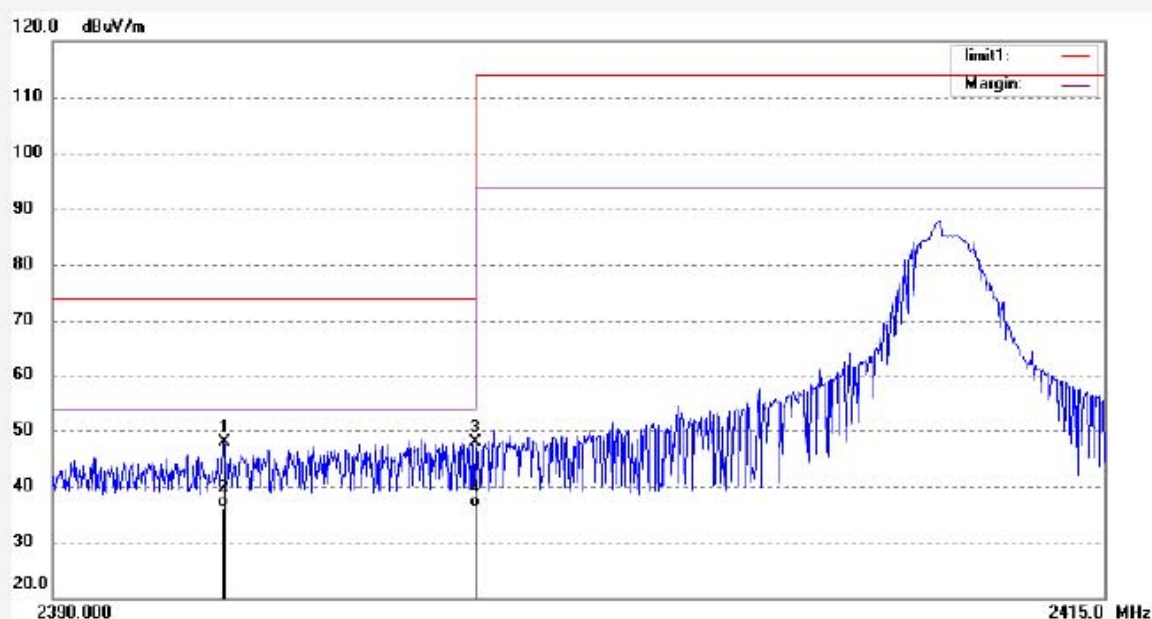
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

 Job No.: RTTE #638
 Standard: FCC Part 15 PEAK 2.4G
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 52 %
 EUT: eBoard
 Mode: TX 2411.2MHz
 Model: HSTNX-001
 Manufacturer: Hanshin

 Polarization: Vertical
 Power Source: AC 120V/60Hz
 Date: 08/10/21/
 Time: 9/55/00
 Engineer Signature: Joe
 Distance: 3m

Note: Sample No.:083785 Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2394.041	55.27	-7.50	47.77	74.00	-26.23	peak	
2	2394.041	43.53	-7.50	36.03	54.00	-17.97	AVG	
3	2400.000	55.30	-7.46	47.84	74.00	-26.16	peak	
4	2400.000	43.68	-7.46	36.22	54.00	-17.78	AVG	


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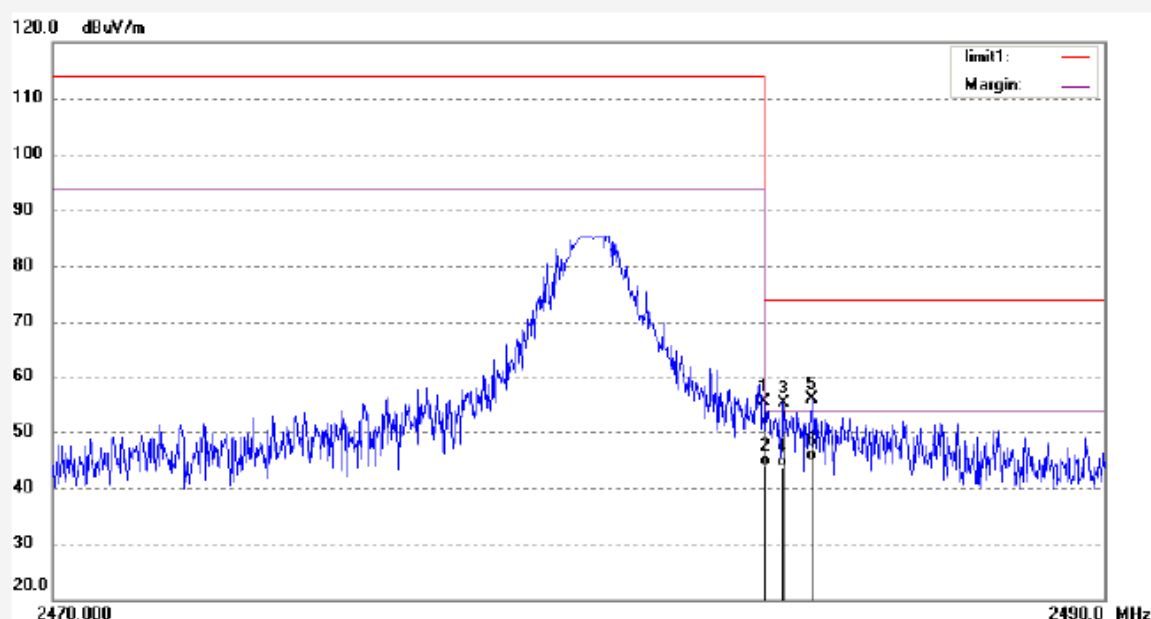
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

 Job No.: RTTE #636
 Standard: FCC Part 15 PEAK 2.4G
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 52 %
 EUT: eBoard
 Mode: TX 2480.2MHz
 Model: HSTNX-001
 Manufacturer: Hanshin

 Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 08/10/21/
 Time: 9/38/40
 Engineer Signature: Joe
 Distance: 3m

Note: Sample No.:083785 Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2483.500	62.78	-7.37	55.41	74.00	-18.59	peak	
2	2483.500	51.36	-7.37	43.99	54.00	-10.01	AVG	
3	2483.871	62.55	-7.38	55.17	74.00	-18.83	peak	
4	2483.871	51.03	-7.38	43.65	54.00	-10.35	AVG	
5	2484.413	63.34	-7.38	55.96	74.00	-18.04	peak	
6	2484.413	52.14	-7.38	44.76	54.00	-9.24	AVG	


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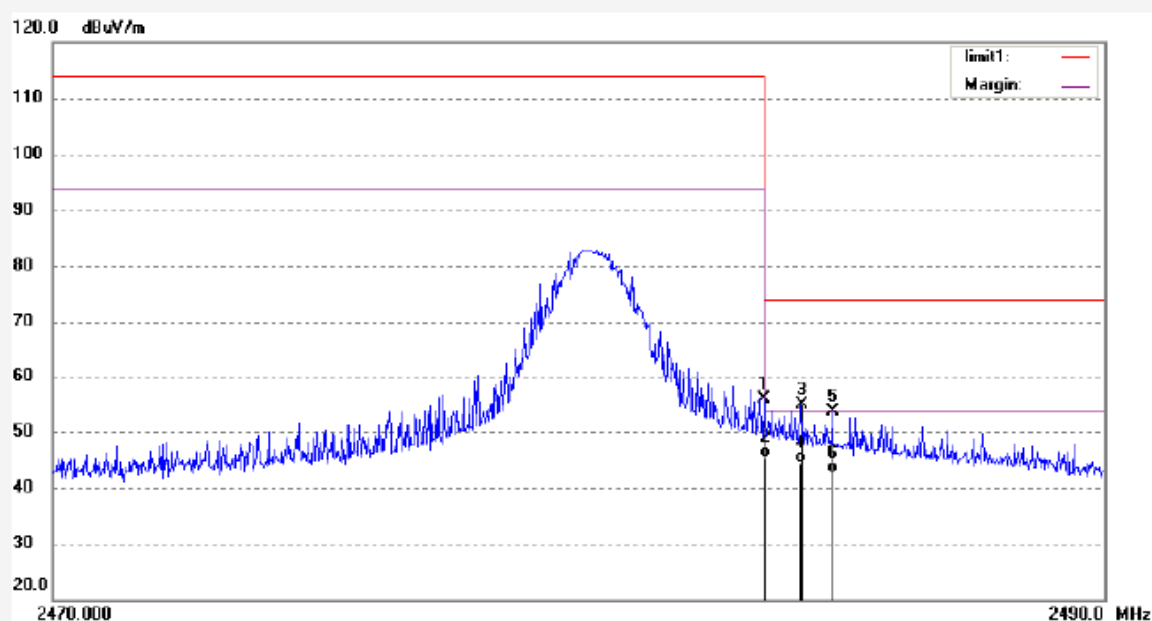
 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

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

 Job No.: RTTE #635
 Standard: FCC Part 15 PEAK 2.4G
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 52 %
 EUT: eBoard
 Mode: TX 2480.2MHz
 Model: HSTNX-001
 Manufacturer: Hanshin

 Polarization: Vertical
 Power Source: AC 120V/60Hz
 Date: 08/10/21/
 Time: 9/20/24
 Engineer Signature: Joe
 Distance: 3m

Note: Sample No.:083785 Report No.:ATE20082001



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2483.500	63.25	-7.37	55.88	74.00	-18.12	peak	
2	2483.500	52.72	-7.37	45.35	54.00	-8.65	AVG	
3	2484.212	62.34	-7.38	54.96	74.00	-19.04	peak	
4	2484.212	51.87	-7.38	44.49	54.00	-9.51	AVG	
5	2484.814	60.92	-7.38	53.54	74.00	-20.46	peak	
6	2484.814	50.09	-7.38	42.71	54.00	-11.29	AVG	