FCC CERTIFICATION On Behalf of Hobbico Inc

Revell 2.4G 2 channel Radio System Model No.: TX24202

FCC ID: IYFTX24202

Prepared for Address	:	Hobbico Inc 2904 Research Road, Champaign, Illinois United States 61821
Prepared by Address	:	ACCURATE TECHNOLOGY CO. LTD F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China
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Report Number	:	ATE20130973
Date of Test	:	May 20-29, 2013
Date of Report	:	May 31, 2013

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APPENDIX I (TEST CURVES) (26 pages)

Test Report Certification

Applicant	:	Hobbico Inc
Manufacturer	:	SHANG HAI C.C.LEE MODEL CO., LTD.
EUT Description	:	Revell 2.4G 2 channel Radio System
		(A) MODEL NO.: TX24202
		(B) POWER SUPPLY: 9V DC ("AA" batteries $6 \times$)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.249 ANSI C63.4: 2009

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section15.249 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 :

Prepared by :

Keny Cheng

May 20-29, 2013

(Kelly Cheng, Engineer)

Approved & Authorized Signer :

(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT	:	Revell 2.4G 2 channel Radio System
Model Number	:	TX24202
Power Supply	:	9V DC ("AA" batteries $6 \times$)
Operate Frequency	:	2402.000-2480.000MHz
Modulation Type	:	GFSK
Applicant Address	:	Hobbico Inc 2904 Research Road, Champaign, Illinois United States 61821
Manufacturer Address	:	SHANG HAI C.C.LEE MODEL CO., LTD. No.1289, MIDDLE JIASONG ROAD, HUAXIN TOWN, QINGPU AREA, SHANGHAI, CHINA
Date of sample received	:	May 15, 2013
Date of Test	:	May 20-29, 2013

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 Site Location	:	ACCURATE TECHNOLOGY CO. LTD 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

Kind of equipment	Manufacturer	Туре	S/N	Calibrated date	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 12, 2013	Jan. 11, 2014
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 12, 2013	Jan. 11, 2014
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 12, 2013	Jan. 11, 2014
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 12, 2013	Jan. 11, 2014
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Feb. 06, 2013	Feb. 05, 2014
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Feb. 06, 2013	Feb. 05, 2014
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Feb. 06, 2013	Feb. 05, 2014
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Feb. 06, 2013	Feb. 05, 2014
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 12, 2013	Jan. 11, 2014
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 12, 2013	Jan. 11, 2014

Table 1: List of Test and Measurement Equipment

3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	N/A
Section 15.249(a)	Fundamental and Harmonics Radiated Emission	Compliant
Section 15.249(d)	Spurious Radiated Emission	Compliant
Section 15.249(d)	Band Edge	Compliant
Section 15.203	Antenna Requirement	Compliant

Remark: "N/A" means "Not applicable".

4. FUNDAMENTAL AND HARMONICS RADIATED EMISSION FOR SECTION 15.249(A)

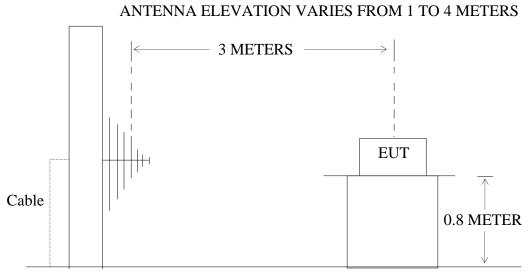
4.1.Block Diagram of Test Setup

4.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: Revell 2.4G 2 channel Radio System)

4.1.2.Semi-Anechoic Chamber Test Setup Diagram



GROUND PLANE

(EUT: Revell 2.4G 2 channel Radio System)

4.2. The Emission Limit

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

4.2.2.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.

4.3.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.

4.3.1. Revell 2.4G 2 channel Radio System (EUT)

Model Number	:	TX24202
Serial Number	:	N/A
Manufacturer	:	SHANG HAI C.C.LEE MODEL CO., LTD.

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 2402.000-2480.000MHz. We are select 2402.000MHz, 2441.000MHz, 2480.000MHz TX frequency to transmit.

4.5.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 bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

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

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

4.6.The Field Strength of Radiation Emission Measurement Results **PASS.**

Date of Test:	May 20, 2013	Temperature:	25°C
EUT:	Revell 2.4G 2 channel Radio System	Humidity:	50%
Model No.:	TX24202	Power Supply:	DC 9V
Test Mode:	TX 2402.000MHz	Test Engineer:	Alen

Fundamental Radiated Emissions

Frequency	Reading(dBµV/m)	Factor(dB)	Result(c	lBµV/m)	Limit(dl	BµV/m)	Margi	in(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2402.000	88.98	90.99	-7.54	81.44	83.45	94.00	114.00	-12.56	-30.55	Vertical
2402.000	89.36	91.63	-7.54	81.82	84.09	94.00	114.00	-12.68	-29.91	Horizontal

Harmonics Radiated Emissions

Frequency	Reading(dBµV/m)	Factor(dB)	Result(c	lBµV/m)	Limit(d	BμV/m)	Marg	in(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
4804.000	49.14	51.26	-0.62	48.52	50.64	54.00	74.00	-5.48	-23.36	Vertical
4804.000	48.01	51.03	-0.71	47.30	50.32	54.00	74.00	-6.70	-23.68	Horizontal

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

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

Date of Test:	May 20, 2013	Temperature:	25°C
EUT:	Revell 2.4G 2 channel Radio System	Humidity:	50%
Model No.:	TX24202	Power Supply:	DC 9V
Test Mode:	TX 2441.000MHz	Test Engineer:	Alen

Fundamental Radiated Emissions

Frequency	Reading(c	dBµV/m)	Factor(dB)	Result(d	BμV/m)	Limit(dl	BμV/m)	Marg	in(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2441.000	88.01	90.14	-7.42	80.59	82.72	94.00	114.00	-13.41	-31.28	Vertical
2441.000	84.43	86.42	-7.42	77.01	79.00	94.00	114.00	-16.99	-35.00	Horizontal

Harmonics Radiated Emissions

Frequency	Reading(c	dBµV/m)	Factor(dB)	Result(d	BμV/m)	Limit(dl	BμV/m)	Marg	in(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
4876.000	50.32	52.57	-0.23	50.09	52.34	54.00	74.00	-3.91	-21.66	Vertical
4876.000	48.68	51.11	-0.23	48.45	50.88	54.00	74.00	-5.55	-23.12	Horizontal

Note:

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

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

Result = Reading + Corrected Factor

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

Date of Test:	May 20, 2013	Temperature:	25°C
EUT:	Revell 2.4G 2 channel Radio System	Humidity:	50%
Model No.:	TX24202	Power Supply:	DC 9V
Test Mode:	TX 2480.000MHz	Test Engineer:	Alen

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBµV/m	Factor(dB) Corr.	Result(d	BμV/m)	Limit(dl	BμV/m)	Margi	in(dB)	Polarization
(11112)	AV	PEAK	con.	AV	PEAK	AV	PEAK	AV	PEAK	
2480.000	84.78	87.10	-7.33	77.45	79.77	94.00	114.00	-16.55	-34.23	Vertical
2480.000	88.36	90.66	-7.33	81.03	83.33	94.00	114.00	-12.79	-30.67	Horizontal

Harmonics Radiated Emissions

Frequency (MHz)	Reading(dBµV/m	Factor(dB) Corr.	Result(d	BμV/m)	Limit(d)	BμV/m)	Marg	in(dB)	Polarization
	AV	PEAK	Con.	AV	PEAK	AV	PEAK	AV	PEAK	
4960.000	49.35	51.42	0.30	49.65	51.72	54.00	74.00	-4.35	-22.28	Vertical
4960.000	46.21	48.34	0.30	46.51	48.64	54.00	74.00	-7.49	-25.36	Horizontal

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

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

5. SPURIOUS RADIATED EMISSION FOR SECTION 15.249(D)

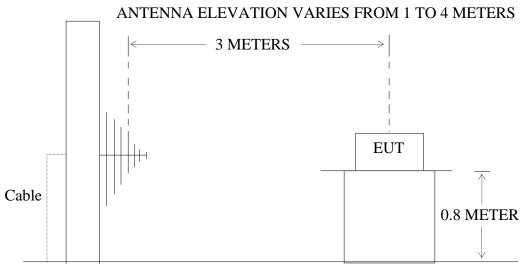
5.1.Block Diagram of Test Setup

5.1.1.Block diagram of connection between the EUT and simulators



(EUT: Revell 2.4G 2 channel Radio System)

5.1.2.Semi-Anechoic Chamber Test Setup Diagram



GROUND PLANE

(EUT: Revell 2.4G 2 channel Radio System)

5.2. The Emission Limit For Section 15.249(d)

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

	Limit						
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)	The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is				
0.009 - 0.490	2400/F(kHz)	300	performed with Average detector.				

0.490 – 1.705	24000/F(kHz)	30	Except those frequency bands mention above, the
1.705 - 30.0	30	30	final measurement for frequencies below
30 - 88	100	3	1000MHz is performed with Quasi Peak detector.
88 - 216	150	3	
216 - 960	200	3	
Above 960	500	3	

5.3.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.

5.3.1. Revell 2.4G 2 channel Radio System (EUT)

Model Number	:	TX24202
Serial Number	:	N/A
Manufacturer	:	SHANG HAI C.C.LEE MODEL CO., LTD.

5.4. Operating Condition of EUT

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

- 5.4.2.Turn on the power of all equipment.
- 5.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402.000-2480.000MHz. We are select 2402.000MHz, 2441.000MHz, 2480.000MHz 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: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 9kHz in below 30MHz. and set at 120kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9kHz to 25GHz 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.

5.6. The Emission Measurement Result

PASS.

EUT:Revell 2.4G 2 channel Radio SystemHumidity:50%Model No :TX24202Power Supply:DC 9V	Date of Test:	May 20-29, 2013	Temperature:	25°C
Model No · TX24202 Power Supply: DC 9V	EUT:	Revell 2.4G 2 channel Radio System	Humidity:	50%
	Model No.:	TX24202	Power Supply:	DC 9V
Test Mode: TX 2402.000MHz Test Engineer: Alen	Test Mode:	TX 2402.000MHz	Test Engineer:	Alen

Below 30MHz

Frequency	Reading	Factor(dB)	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP		QP	QP	QP	
-	-	-	-	-	-	Х
-	-	-	-	-	-	Y
-	_	_	-	_	_	Z

30MHz-25GHz

Frequency	Reading	Factor(dB)	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP		QP	QP	QP	
-	-	_	-	-	-	Vertical
_	-	-	-	-	-	Horizontal

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

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

Date of Test:	May 20-29, 2013	Temperature:	25°C
EUT:	Revell 2.4G 2 channel Radio System	Humidity:	50%
Model No.:	TX24202	Power Supply:	DC 9V
Test Mode:	TX 2441.000MHz	Test Engineer:	Alen

Below 30MHz

Frequency	Reading	Factor(dB)	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP		QP	QP	QP	
-	-	-	-	-	-	Х
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

30MHz-25GH

Frequency	Reading	Factor(dB)	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP		QP	QP	QP	
-	_	-	-	-	-	Vertical
_	-	-	-	-	-	Horizontal

Note:

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

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

Result = Reading + Corrected Factor

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

Date of Test:	May 20-29, 2013	Temperature:	25°C
EUT:	Revell 2.4G 2 channel Radio System	Humidity:	50%
Model No.:	TX24202	Power Supply:	DC 9V
Test Mode:	TX 2480.000MHz	Test Engineer:	Alen

Below 30MHz

Frequency	Reading	Factor(dB)	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP		QP	QP	QP	
-	-	-	-	-	-	Х
-	-	-	-	-	-	Y
-	-	-	-	-	-	Z

30MHz-25GH

Frequency	Reading	Factor(dB)	Result	Limit	Margin	Polarization
(MHz)	(dBµV/m)	Corr.	(dBµV/m)	(dBµV/m)	(dB)	
	QP		QP	QP	QP	
-	_	-	-	-	-	Vertical
_	-	-	-	-	-	Horizontal

Note:

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

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

Result = Reading + Corrected Factor

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

6. BAND EDGES

6.1.The Requirement

6.1.1.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.

6.2.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.

6.2.1. Revell 2.4G 2 channel Radio System (EUT)

Model Number	:	TX24202
Serial Number	:	N/A
Manufacturer	:	SHANG HAI C.C.LEE MODEL CO., LTD.

6.3. Operating Condition of EUT

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

- 6.3.2.Turn on the power of all equipment.
- 6.3.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402.000-2480.000MHz MHz. We are select 2402.000MHz, 2480.000MHz TX frequency to transmit.

6.4. 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

6.5. The Measurement Result

Pass.

Date of Test:	May 20, 2013	Temperature:	25°C
EUT:	Revell 2.4G 2 channel Radio System	Humidity:	50%
Model No.:	TX24201	Power Supply:	DC 9V
Test Mode:	TX 2402.000MHz (Hopping)	Test Engineer:	Alen

Frequency	Reading(dBμV/m)	Factor(dB)	Result(c	lBµV/m)	Limit(dI	BμV/m)	Margi	n(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2310.000	43.00	48.43	-7.81	35.19	40.62	54	74	-18.81	-33.38	Vertical
2362.802	45.00	50.67	-7.71	37.29	42.96	54	74	-16.71	-31.04	Vertical
2390.000	45.02	50.02	-7.53	37.49	42.49	54	74	-16.51	-31.51	Vertical
2310.000	43.25	48.83	-7.81	35.44	41.02	54	74	-18.56	-32.98	Horizontal
2361.404	45.28	50.49	-7.71	37.57	42.78	54	74	-16.43	-31.22	Horizontal
2390.000	42.36	47.94	-7.53	34.83	40.41	54	74	-19.17	-33.59	Horizontal

Note:

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

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

Result = Reading + Corrected Factor

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

Date of Test:	May 20, 2013	Temperature:	25°C
EUT:	Revell 2.4G 2 channel Radio System	Humidity:	50%
Model No.:	TX24201	Power Supply:	DC 9V
Test Mode:	TX 2480.000MHz(Hopping)	Test Engineer:	Alen

Frequency	Reading(dBμV/m)	Factor(dB)	Result(c	lBµV/m)	Limit(dI	BμV/m)	Margi	in(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	58.39	64.14	-7.37	51.02	56.77	54	74	-2.98	-17.23	Vertical
2486.874	45.02	52.98	-7.38	37.64	45.60	54	74	-16.36	-28.40	Vertical
2500.000	42.39	48.26	-7.40	34.99	40.86	54	74	-19.01	-33.14	Vertical
2483.500	51.00	58.38	-7.37	43.63	51.01	54	74	-10.37	-22.99	Horizontal
2490.517	42.69	49.50	-7.38	35.31	42.12	54	74	-18.69	-31.88	Horizontal
2500.000	41.00	47.69	-7.40	33.60	40.29	54	74	-20.40	-33.71	Horizontal

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

 $Result = Reading + Corrected \ Factor$

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

Date of Test:	May 20, 2013	Temperature:	25°C
EUT:	Revell 2.4G 2 channel Radio System	Humidity:	50%
Model No.:	TX24201	Power Supply:	DC 9V
Test Mode:	TX 2402.000MHz (Non-hopping)	Test Engineer:	Alen

Frequency	Reading(c	dBμV/m)	Factor(dB)	Result(c	lBµV/m)	Limit(dl	BμV/m)	Margi	n(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2310.000	41.23	45.09	-7.81	33.51	37.28	54.00	74.00	-20.49	-36.72	Vertical
2385.857	46.58	50.07	-7.56	39.02	42.51	54.00	74.00	-14.98	-31.49	Vertical
2390.000	39.30	43.52	-7.53	31.77	35.99	54.00	74.00	-22.23	-38.01	Vertical
2310.000	40.02	44.57	-7.81	32.21	36.76	54.00	74.00	-21.79	-37.24	Horizontal
2370.088	42.39	46.75	-7.66	34.73	39.09	54.00	74.00	-19.27	-34.91	Horizontal
2390.000	41.39	45.27	-7.53	33.86	37.74	54.00	74.00	-20.14	-36.26	Horizontal

Note:

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

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

Result = Reading + Corrected Factor

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

Date of Test:	May 20, 2013	Temperature:	25°C
EUT:	Revell 2.4G 2 channel Radio System	Humidity:	50%
Model No.:	TX24201	Power Supply:	DC 9V
Test Mode:	TX 2480.000MHz (Non-hopping)	Test Engineer:	Alen

Frequency	Reading(c	lBμV/m)	Factor(dB)	Result(c	lBµV/m)	Limit(dI	BμV/m)	Margi	in(dB)	Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
2483.500	41.28	45.90	-7.37	33.91	38.53	54.00	74.00	-20.09	-35.47	Vertical
2495.912	43.28	48.71	-7.39	35.89	41.32	54.00	74.00	-18.11	-32.68	Vertical
2500.000	38.93	43.64	-7.40	31.53	36.24	54.00	74.00	-2.47	-37.76	Vertical
2483.500	41.88	45.96	-7.37	34.51	38.59	54.00	74.00	-19.49	-35.41	Horizontal
2495.912	42.28	48.11	-7.39	34.89	40.72	54.00	74.00	-19.11	-33.28	Horizontal
2500.000	38.92	44.22	-7.40	31.52	36.82	54.00	74.00	-22.48	-37.18	Horizontal

Note:

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

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

 $Result = Reading + Corrected \ Factor$

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

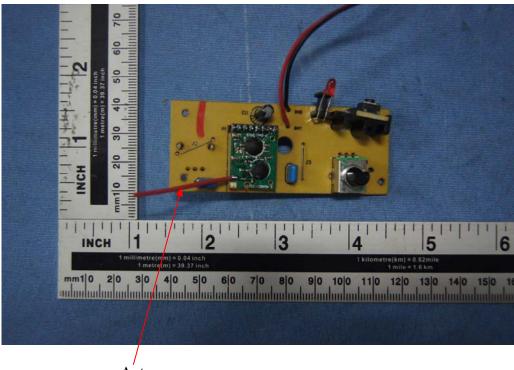
7. ANTENNA REQUIREMENT

7.1.The Requirement

7.1.1.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.

7.2. Antenna Construction

The antenna is PCB Layout antenna, no consideration of replacement.



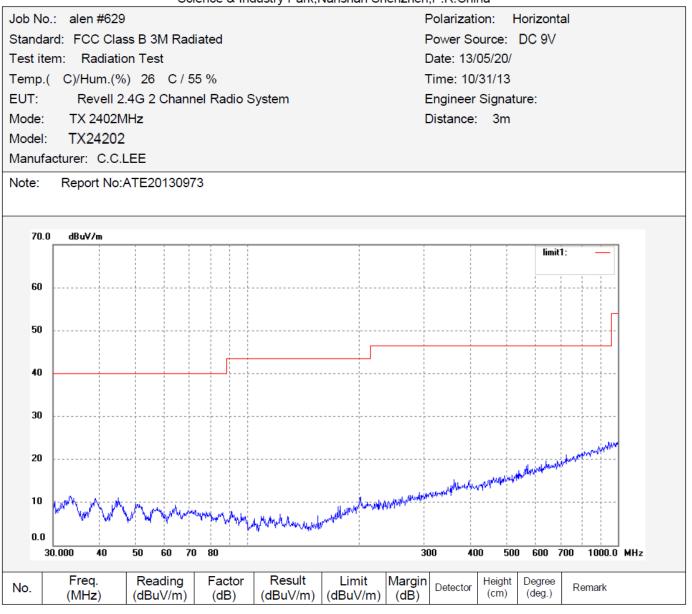
Antenna

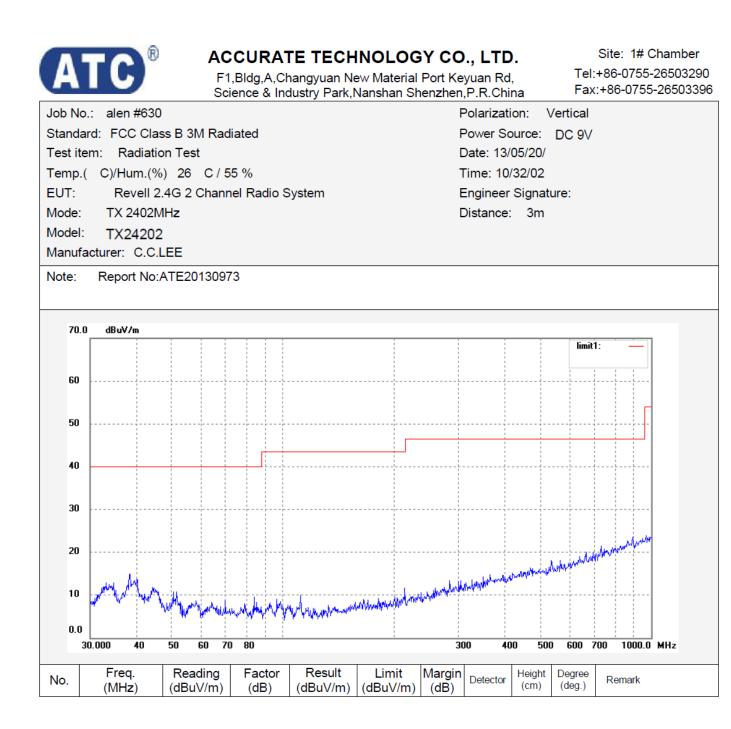
APPENDIX I (Test Curves)



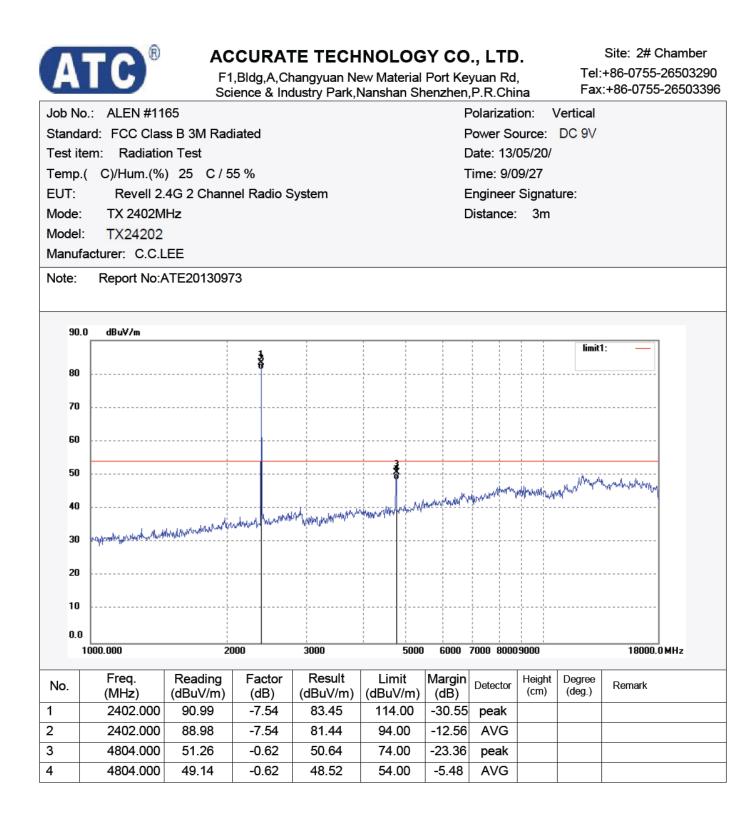
ACCURATE TECHNOLOGY CO., LTD.

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



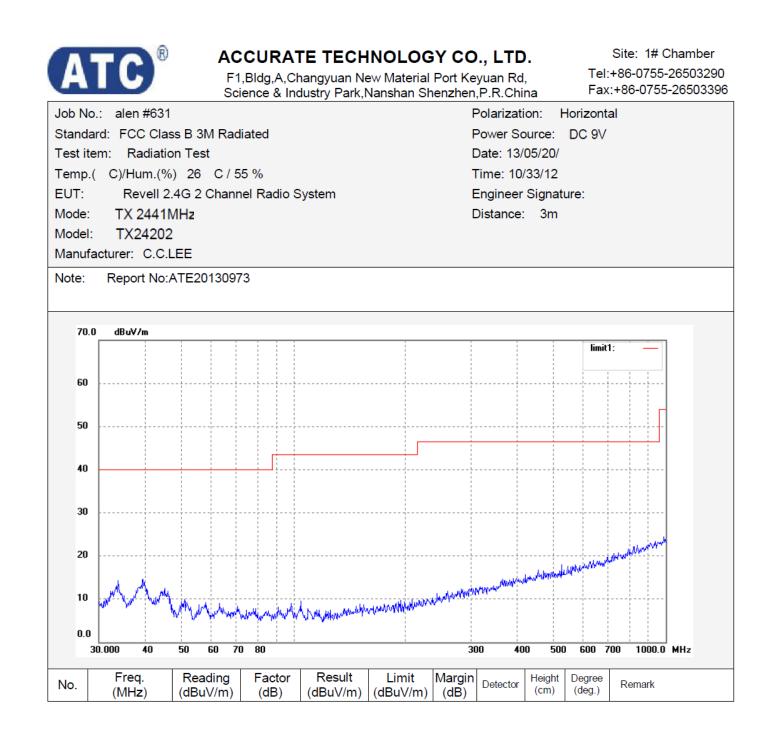






A	TC®	F1	,Bldg,A,Ch	FE TECH nangyuan Ne dustry Park,N	ew Material	Port Ke	yuan Rd	,		Site: 966 chamber +86-0755-26503290 ::+86-0755-26503396
Job No	.: ALEN #67	77				F	Polarizati	on: H	Iorizont	al
Standa	rd: FCC 15C	;				F	Power Sc	urce:	DC 9V	
Test ite	em: Radiatio	on Test				0	Date: 13/	05/29/		
Temp.(C)/Hum.(%) 25 C/5	0 %			г	Time: 11:	35:56		
EUT:	Revell 2	.4G 2 Chann	el Radio S	System		E	Engineer	Signat	ure:	
Mode:	TX 2402N	1Hz				0	Distance:	3m		
Model:	TX24202	2								
Manufa	acturer: C.C.I	LEE								
	Report No:AT	E20130973								
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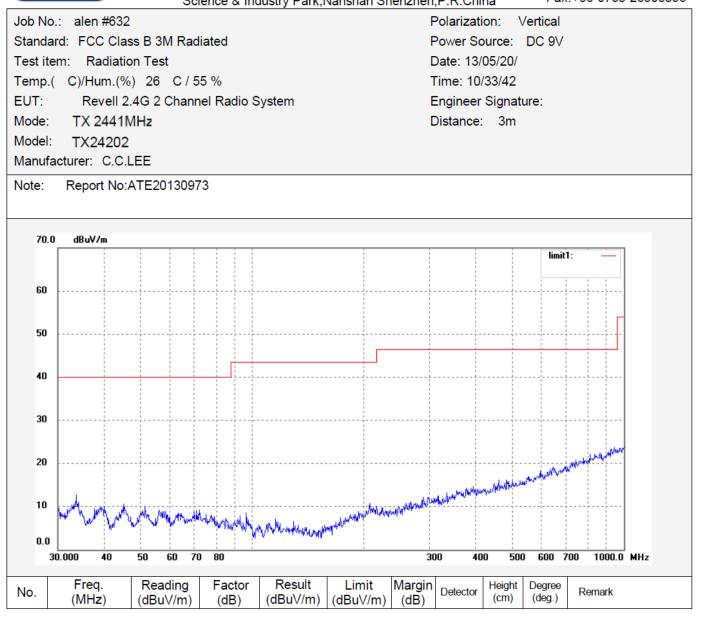
A	TC	F1	,Bldg,A,Ch	TE TECH nangyuan Ne dustry Park,N	ew Material	Port Ke	yuan Rd	,		Site: 966 chamber +86-0755-26503290 :+86-0755-26503396
Job No	.: ALEN #67	' 6				F	Polarizati	on: \	/ertical	
Standa	rd: FCC 15C					F	Power Sc	ource:	DC 9V	
Test ite	em: Radiatio	on Test				0	Date: 13/	05/29/		
Temp.(C)/Hum.(%) 25 C/5	0 %			Г	Time: 11:	32:05		
EUT:	Revell 2.	4G 2 Chann	el Radio S	System		E	Engineer	Signat	ure:	
Mode:	TX 2402M	lHz				0	Distance:	3m		
Model:	TX24202									
Manufa	acturer: C.C.I	.EE								
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R ACCURATE TECHNOLOGY CO., LTD. F1,Bldg,A,Changyuan New Material Port Keyuan Rd,

Site: 2# Chamber Tel:+86-0755-26503290

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b l	No.: ALE	N #11	67						Polariza	ation: I	Horizont	al	
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em	p.(C)/Hı	um.(%) 25 C/	55 %					Time: 9	/14/03			
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ode		4202											
an	ufacturer:	C.C.L	_EE										
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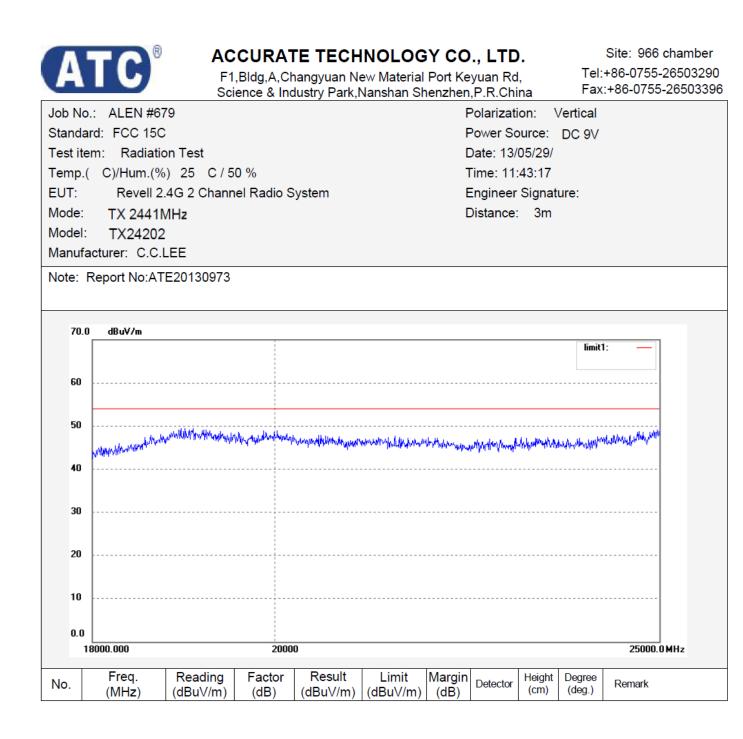


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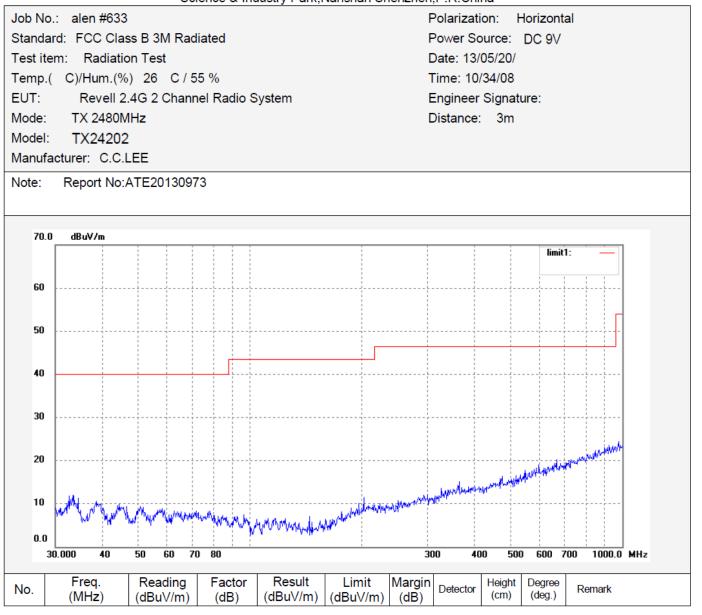
		Sci	ience & Inc	lustry Park,I	Nanshan Sh	nenzhen	,P.R.Chi	na	Fax	:+86-0755-265033
ob No	b.: ALEN #11	66				F	Polarizati	ion: \	/ertical	
tanda	ard: FCC Clas	s B 3M Rad	iated			F	Power So	ource:	DC 9V	
est ite	em: Radiatio	n Test				[Date: 13/	05/20/		
emp.	(C)/Hum.(%)) 25 C/5	5 %			٦	Time: 9/1	0/49		
UT:	Revell 2.	4G 2 Chann	nel Radio S	System		E	Engineer	Signat	ure:	
lode:	TX 2441M	ЛНz				[Distance	3m		
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	2438.000	90.14	-7.42	82.72	114.00	-31.28	peak			
	2438.000	88.01	-7.42	80.59	94.00	-13.41	AVG			
	4876.000	52.57	-0.23	52.34	74.00	-21.66	peak			
	4876.000	50.32	-0.23	50.09	54.00	-3.91	AVG			

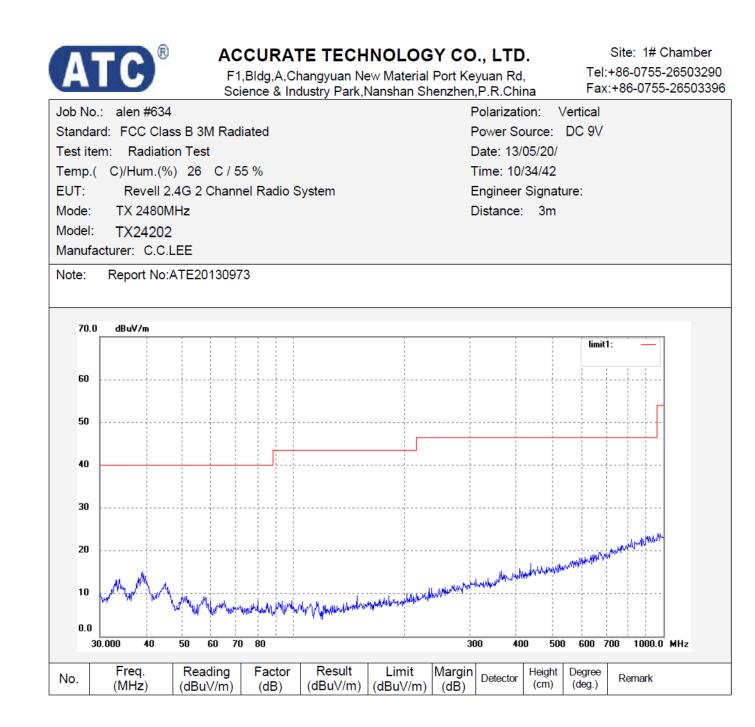
ATC	ACCURAT F1,Bldg,A,Ch Science & Inc	nangyuan Ne	ew Material	Port Ke	yuan Rd	,		Site: 966 chambe +86-0755-2650329 :+86-0755-265033
ob No.: ALEN #678				F	olarizatio	on: H	orizont	al
tandard: FCC I5C				F	ower So	urce:	DC 9V	
est item: Radiation Test				0	ate: 13/0	05/29/		
emp.(C)/Hum.(%) 25	C / 50 %			Т	ime: 11:	38:38		
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

		Sc	ience & Inc	lustry Park,N	Vanshan Sh	nenzhen	,P.R.Chi	na	Fax	:+86-0755-265033			
b N	lo.: ALEN #11	69				F	Polarizati	on: H	Horizonta	al			
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emp	.(C)/Hum.(%) 25 C/5	5 %			٦	Time: 9/16/56						
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	2480.000	90.66	-7.33	83.33	114.00	-30.67	peak						
	2480.000	88.36	-7.33	81.03	94.00	-12.79	AVG						
	4960.000	48.34	0.30	48.64	74.00	-25.36	peak						
	4960.000	46.21	0.30	46.51	54.00	-7.49	AVG						



ACCURATE TECHNOLOGY CO., LTD. F1,Bldg,A,Changyuan New Material Port Keyuan Rd,

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Site: 2# Chamber Fax:+86-0755-26503396

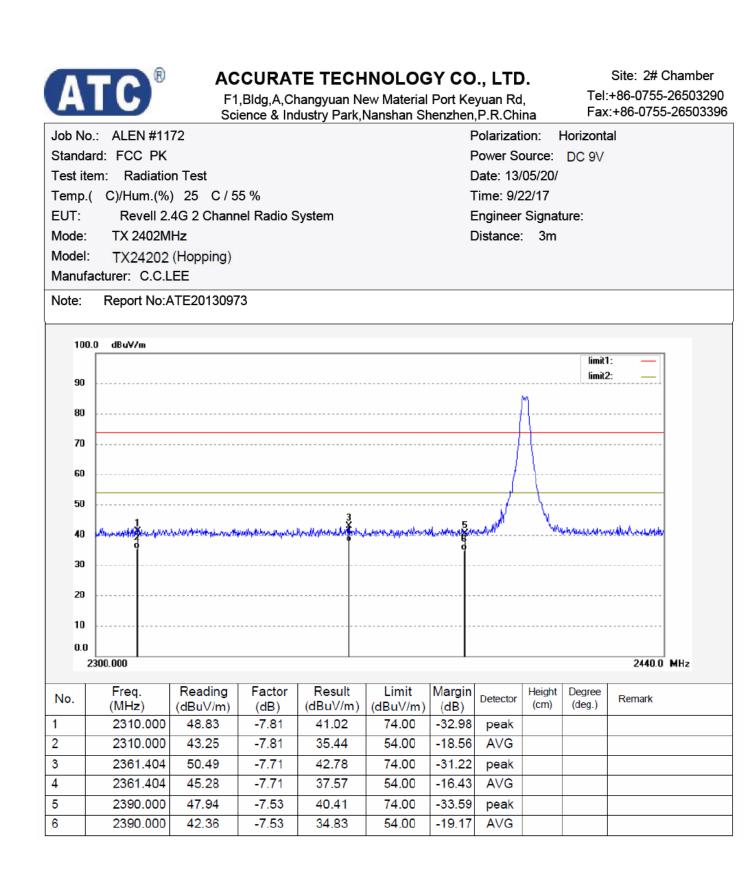
		Sci	ience & Inc	dustry Park,I	Nanshan Sh	nenzhen	,P.R.Chi	na	Fax	:+86-0755-2650339			
ob No	p.: ALEN #11	68				F	Polarizati	ion: \	/ertical				
tanda	ard: FCC Clas	s B 3M Rad	iated			F	Power So	ource:	DC 9V				
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emp.	(C)/Hum.(%) 25 C/5	5 %			٦	Time: 9/1	5/32					
UT:	Revell 2.	4G 2 Chann	nel Radio S	System		E	Engineer	Signat	ure:				
lode:	TX 2480M	Hz				[Distance:	3m					
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	2480.000	87.10	-7.33	79.77	114.00	-34.23	peak						
	2480.000	84.78	-7.33	77.45	94.00	-16.55	AVG						
	4960.000	51.42	0.30	51.72	74.00	-22.28	peak						
	4960.000	49.35	0.30	49.65	54.00	-4.35	AVG						

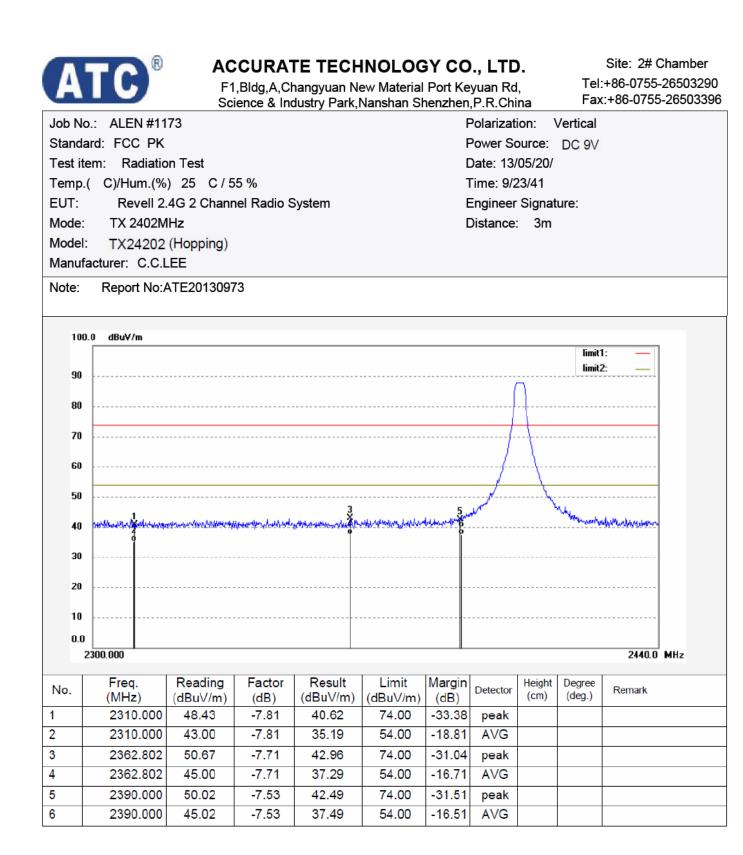


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Job No.	.: ALEN #6	31				F	Polarizatio	on: H	lorizont	al		
Standar	rd: FCC 150	;				F	Power So	urce:	DC 9V			
Test iter	m: Radiati	on Test				C	Date: 13/0)5/29/				
Temp.(C)/Hum.(%	o) 25 C/5	D %			Т	ime: 11:	50:47				
EUT:	Revell 2	.4G 2 Chann	el Radio S	System		Engineer Signature:						
Mode:	TX 2480N	1Hz				0)istance:	3m				
Model:	TX24202											
Manufa	cturer: C.C.	LEE										
Note: F	Report No:AT	E20130973										
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ATC	ACCURA F1,Bldg,A,C Science & In	hangyuan Ne	ew Material	Port Key	uan Rd,				chamber -26503290 5-26503396
Job No.: ALEN #680				P	olarizatio	on: V	ertical		
Standard: FCC 15C				P	ower So	urce:	DC 9V		
Test item: Radiation Test	st			D	ate: 13/0	5/29/			
Temp.(C)/Hum.(%) 25	C / 50 %			Ti	me: 11:4	47:55			
EUT: Revell 2.4G 2	Channel Radio	System		E	ngineer	Signatu	ire:		
Mode: TX 2480MHz				D	istance:	3m			
Model: TX24202									
Manufacturer: C.C.LEE									
Note: Report No:ATE201	30973								
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Job N						CHENCH	,P.R.Chi							
200 14	lo.: ALEN #11	70				F	Polarizati	ion: H	lorizontal	I				
Stand	ard: FCC PK Power Source:									DC 9V				
Test if	tem: Radiatio	n Test				[Date: 13/	05/20/						
Temp	.(C)/Hum.(%) 25 C/5	5 %			٦	Fime: 9/1	8/51	/51					
EUT:		4G 2 Chanr		System		E	Engineer	Signat	ure:					
Mode							Distance:	-						
Model	I: TX24202	(Hopping)												
Manu	facturer: C.C.L													
Note:	Report No:	TE2013007	73											
NOLE.	Report No.	ATE2015097	5											
10	0.0 dBuV/m								E-34					
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50 40	North and bootstands		* • • •	5 6 0	na an a	nontra norder	arthantition,	adotro-asteri	no sek dravas	Norman geen Maan gar				
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50 40 30 20 10		whereast in the second s			verster state of the	toobana da	414.4.1V++	a foto control						
50 40 30 20 10	14		* * *	5 8 a		rooto proceder	Munt	a Arta-atter		2600.0	MHz			
50 40 30 20 10 0.0		Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit	Margin	Detector	Height (cm)	Degree (deg.)		MHz			
50 40 30 20 10 0.0	2440.000 Freq.	-		Result	Limit	Margin (dB)	Detector	Height	Degree	2600.0	MHz			
50 40 30 20 10 0.0	2440.000 Freq. (MHz)	(dBuV/m)	(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height	Degree	2600.0	MHz			
50 40 30 20 10 0.0 No.	2440.000 Freq. (MHz) 2483.500	(dBuV/m) 58.38	(dB) -7.37	Result (dBuV/m) 51.01	Limit (dBuV/m) 74.00	Margin (dB) -22.99	Detector peak AVG	Height	Degree	2600.0	MHz			
50 40 30 20 10 0.0 1 2 3	2440.000 Freq. (MHz) 2483.500 2483.500	(dBuV/m) 58.38 51.00	(dB) -7.37 -7.37	Result (dBuV/m) 51.01 43.63	Limit (dBuV/m) 74.00 54.00	Margin (dB) -22.99 -10.37	Detector peak A\√G peak	Height	Degree	2600.0	MHz			
50 40 30 20 10 0.0	2440.000 2440.000 Freq. (MHz) 2483.500 2483.500 2490.517	(dBuV/m) 58.38 51.00 49.50	(dB) -7.37 -7.37 -7.38	Result (dBuV/m) 51.01 43.63 42.12	Limit (dBuV/m) 74.00 54.00 74.00	Margin (dB) -22.99 -10.37 -31.88	Detector peak A\√G peak	Height	Degree	2600.0	MHz			



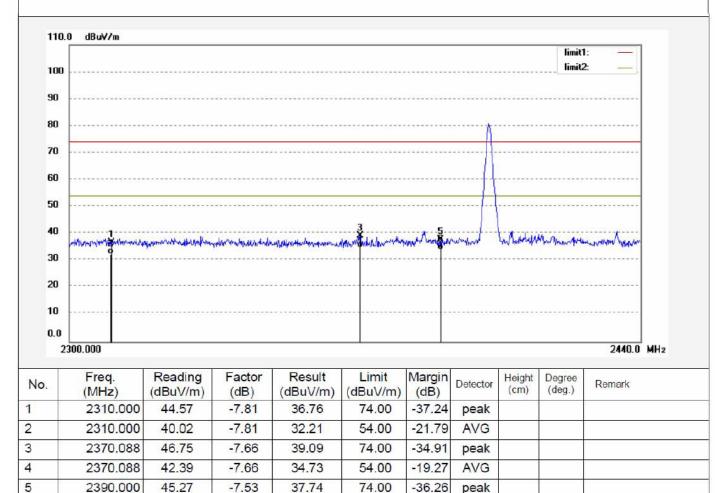
F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

		30	lience & mo	dustry Park,	varisriari Sr	lenznen	,F.K.OII	lld	1 47		20000000
Job N	lo.: ALEN #11	71				F	Polarizat	ion: \	/ertical		
Stand	lard: FCC PK					F	Power So	ource:	DC 9V		
Test i	Fest item: Radiation Test Date: 13/05/20/ Ferrer (- Q)// huma (%) 25 - Q / 55 % Times 0/20/46										
Temp	Temp.(C)/Hum.(%)25C / 55 %Time: 9/20/16EUT:Revell 2.4G 2 Channel Radio SystemEngineer Signature:										
EUT:	Revell 2.	.4G 2 Chanı	nel Radio S	System		E	Engineer	Signat	ure:		
Mode	: TX 2480M	IHz				[Distance	: 3m			
Mode	I: TX24202	(Hopping)									
Manu	facturer: C.C.L	.EE									
Note:	Report No:	ATE201309	73								
10	10.0 dBu∀/m								limit	1	
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	2440.000									2600.0	MHz
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	2483.500	64.14	-7.37	56.77	74.00		peak				
2	2483.500	58.39	-7.37	51.02	54.00	-2.98	AVG				
3	2486.874	52.98	-7.38	45.60	74.00	-28.40	peak				
4	2486.874	45.02	-7.38	37.64	54.00	-16.36	-				
5	2500.000	48.26	-7.40	40.86	74.00	-33.14	peak				
6	2500.000	42.39	-7.40	34.99	54.00	-19.01	•				



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Job No.: ALEN #1172	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 9V
Test item: Radiation Test	Date: 13/05/20/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/22/17
EUT: Revell 2.4G 2 Channel Radio System	Engineer Signature:
Mode: TX 2402MHz	Distance: 3m
Model: TX24202 (Non-hopping)	
Manufacturer: C.C.LEE	
Note: Report No:ATE20130973	



54.00

-20.14

AVG

6

2390.000

41.39

-7.53

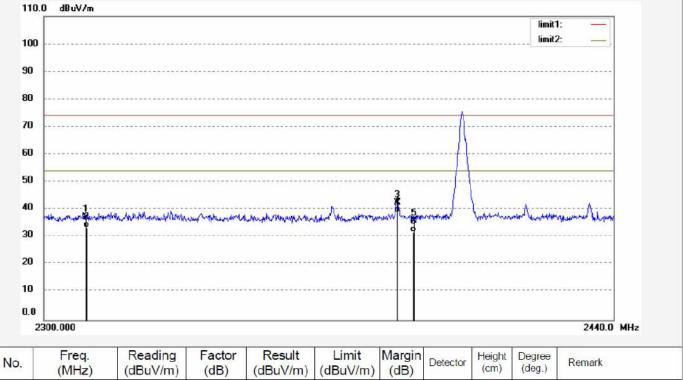
33.86



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Polarization: Vertical Power Source: DC 9V Date: 13/05/20/ Time: 9/23/41 Engineer Signature: Distance: 3m

Note: Report No:ATE20130973



No.	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Detector	(cm)	(deg.)	Remark
1	2310.000	45.09	-7.81	37.28	74.00	-36.72	peak			
2	2310.000	41.32	-7.81	33.51	54.00	-20.49	AVG			
3	2385.857	50.07	-7.56	42.51	74.00	-31.49	peak			
4	2385.857	46.58	-7.56	39.02	54.00	-14.98	AVG			
5	2390.000	43.52	-7.53	35.99	74.00	-38.01	peak			
6	2390.000	39.30	-7.53	31.77	54.00	-22.23	AVG			



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Polarization: Horizontal

DC 9V

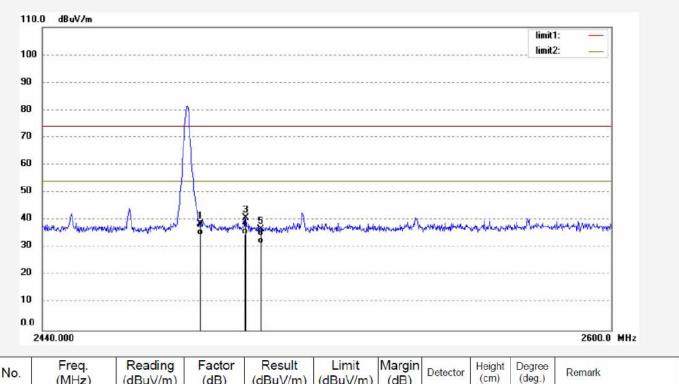
Power Source:

Date: 13/05/20/ Time: 9/18/51

Engineer Signature: Distance: 3m

Job No.: ALEN #1170
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Revell 2.4G 2 Channel Radio System
Mode: TX 2480MHz
Model: TX24202 (Non-hopping)
Manufacturer: C.C.LEE

Note: Report No:ATE20130973



No.	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Detector	(cm)	(deg.)	Remark
1	2483.500	45.96	-7.37	38.59	74.00	-35.41	peak			
2	2483.500	41.88	-7.37	34.51	54.00	-19.49	AVG			
3	2495.912	48.11	-7.39	40.72	74.00	-33.28	peak			
4	2495.912	42.28	-7.39	34.89	54.00	-19.11	AVG			
5	2500.000	44.22	-7.40	36.82	74.00	-37.18	peak			
6	2500.000	38.92	-7.40	31.52	54.00	-22.48	AVG			

