

FCC CERTIFICATION
On Behalf of
Interactive Toy Concepts Limited

2.4G Helicopter Controller
Model No.: 50800TX

FCC ID: RSD-50800TX

Prepared for : Interactive Toy Concepts Limited
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Cheung Sha Wan Rd., Kowloon, Hong Kong

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Report Number : ATE20122925
Date of Test : December 27, 2012-January 5, 2013
Date of Report : January 5, 2013

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APPENDIX I (TEST CURVES) (28 pages)

Test Report Certification

Applicant : Interactive Toy Concepts Limited
Manufacturer : Interactive Toy Concepts Limited
EUT Description : 2.4G Helicopter Controller
(A) MODEL NO.: 50800TX
(B) POWER SUPPLY: 9V DC ("6F22" batteries 1×)

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 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 : December 27, 2012-January 5, 2013

Prepared by :

Apple Lv

(Engineer)

Approved & Authorized Signer :

Heinrich

(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	2.4G Helicopter Controller
Model Number	:	50800TX
Power Supply	:	9V DC ("6F22" batteries 1 ×)
Operate Frequency	:	2414.000-2473.000MHz
Applicant	:	Interactive Toy Concepts Limited
Address	:	Unit 709, 7/F., Tower 2, Cheung Sha Wan Plaza, No.833 Cheung Sha Wan Rd., Kowloon, Hong Kong
Manufacturer	:	Interactive Toy Concepts Limited
Address	:	Unit 709, 7/F., Tower 2, Cheung Sha Wan Plaza, No.833 Cheung Sha Wan Rd., Kowloon, Hong Kong
Date of sample received	:	December 27, 2012
Date of Test	:	December 27, 2012-January 5, 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	:	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 = 3.08dB, k=2
(9kHz-30MHz)

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

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

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

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

3. 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)

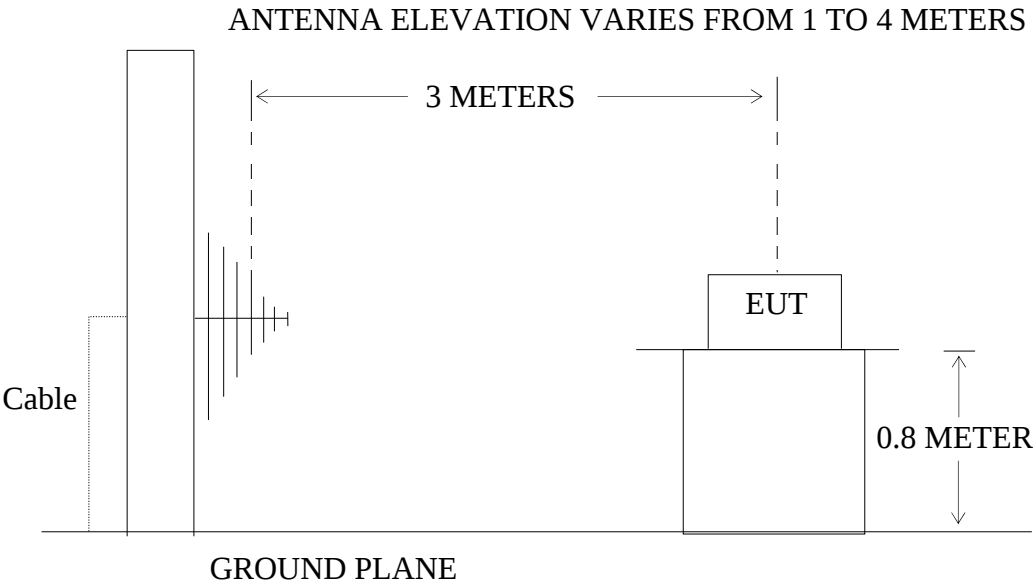
4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



(EUT: 2.4G Helicopter Controller)

4.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: 2.4G Helicopter Controller)

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 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

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. 2.4G Helicopter Controller (EUT)

Model Number : 50800TX
 Serial Number : N/A
 Manufacturer : Interactive Toy Concepts 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 2414.000 - 2473.000 MHz. We are select 2414.000MHz, 2447.000MHz, 2473.000MHz 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:	January 4, 2013	Temperature:	25°C
EUT:	2.4G Helicopter Controller	Humidity:	50%
Model No.:	50800TX	Power Supply:	DC 9V
Test Mode:	TX 2414.000MHz	Test Engineer:	Pei

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	
2414.000	94.57	100.55	-7.42	87.15	93.13	94.00	114.00	-6.85	-20.87	Vertical
2414.000	97.21	103.67	-7.42	89.79	96.25	94.00	114.00	-6.21	-17.75	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	
4828.000	42.02	47.92	-0.17	41.85	47.75	54.00	74.00	-12.15	-26.25	Vertical
4828.000	40.95	45.43	-0.17	40.78	45.26	54.00	74.00	-13.22	-28.74	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:

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

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

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

Date of Test:	January 4, 2013	Temperature:	25°C
EUT:	2.4G Helicopter Controller	Humidity:	50%
Model No.:	50800TX	Power Supply:	DC 9V
Test Mode:	TX 2447.000MHz	Test Engineer:	Pei

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	
2447.000	98.85	104.95	-7.34	91.51	97.61	94.00	114.00	-2.49	-16.39	Vertical
2447.000	96.69	102.78	-7.34	89.35	95.44	94.00	114.00	-4.65	-18.44	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	
4894.000	43.36	48.07	0.20	43.56	48.27	54.00	74.00	-10.44	-25.73	Vertical
4894.000	43.33	48.20	0.20	43.53	48.40	54.00	74.00	-10.47	-25.60	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:

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

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

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

Date of Test:	January 4, 2013	Temperature:	25°C
EUT:	2.4G Helicopter Controller	Humidity:	50%
Model No.:	50800TX	Power Supply:	DC 9V
Test Mode:	TX 2473.000MHz	Test Engineer:	Pei

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	
2473.000	96.51	101.60	-7.36	89.15	94.24	94.00	114.00	-4.85	-19.76	Vertical
2473.000	95.15	101.98	-7.36	87.79	94.62	94.00	114.00	-6.21	-19.38	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	
4946.000	46.61	51.04	0.46	47.07	51.50	54.00	74.00	-6.93	-22.50	Vertical
4946.000	45.97	51.56	0.46	46.43	52.02	54.00	74.00	-7.57	-21.98	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:

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

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

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

5. SPURIOUS RADIATED EMISSION FOR SECTION 15.249(D)

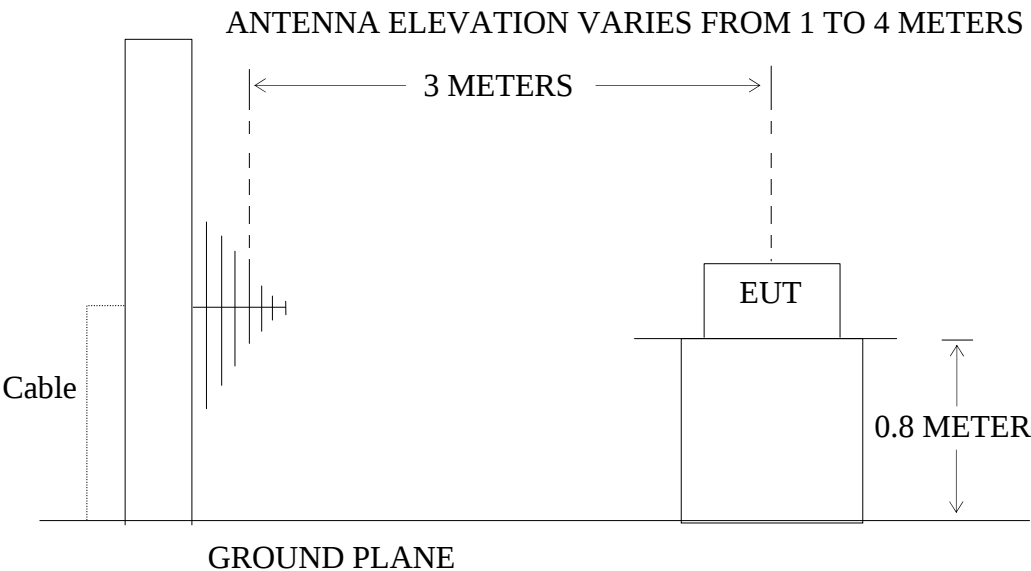
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators



(EUT: 2.4G Helicopter Controller)

5.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: 2.4G Helicopter Controller)

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.

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.
	Field Strength (microvolts/meter)	Measurement Distance (meters)	
0.009 – 0.490	2400/F(kHz)	300	

0.490 – 1.705	24000/F(kHz)	30	Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
1.705 – 30.0	30	30	
30 - 88	100	3	
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. 2.4G Helicopter Controller (EUT)

Model Number : 50800TX
 Serial Number : N/A
 Manufacturer : Interactive Toy Concepts 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 2414.000 - 2473.000 MHz. We are select 2414.000MHz, 2447.000MHz, 2473.000MHz 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.

Date of Test:	January 4, 2013	Temperature:	25°C
EUT:	2.4G Helicopter Controller	Humidity:	50%
Model No.:	50800TX	Power Supply:	DC 9V
Test Mode:	TX 2414.000MHz	Test Engineer:	Pei

Below 30MHz

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

30MHz-25GHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
271.5686	4.55	16.06	20.61	46.00	-25.39	Vertical
396.8992	4.38	19.26	23.64	46.00	-22.36	
809.9238	3.56	26.97	30.53	46.00	-15.47	
270.6161	8.37	16.02	24.39	46.00	-21.61	Horizontal
364.8025	6.66	18.58	25.24	46.00	-20.76	
925.6132	4.79	28.16	32.95	46.00	-13.05	

Note:

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

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

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	January 4, 2013	Temperature:	25°C
EUT:	2.4G Helicopter Controller	Humidity:	50%
Model No.:	50800TX	Power Supply:	DC 9V
Test Mode:	TX 2447.000MHz	Test Engineer:	Pei

Below 30MHz

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

30MHz-25GH

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
39.3204	4.57	14.71	19.28	40.00	-20.72	Vertical
223.0630	4.16	14.83	18.99	46.00	-27.01	
358.4497	7.77	18.51	26.28	46.00	-19.72	
285.2611	7.74	16.45	24.19	46.00	-21.81	Horizontal
716.2038	7.46	25.16	32.62	46.00	-13.38	
955.3509	5.33	28.63	33.96	46.00	-12.04	

Note:

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

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

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

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

Date of Test:	January 4, 2013	Temperature:	25°C
EUT:	2.4G Helicopter Controller	Humidity:	50%
Model No.:	50800TX	Power Supply:	DC 9V
Test Mode:	TX 2473.000MHz	Test Engineer:	Pei

Below 30MHz

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

30MHz-25GH

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
34.5270	2.09	15.73	17.82	40.00	-22.18	Vertical
245.2606	2.83	15.48	18.31	46.00	-27.69	
358.4497	6.28	18.51	24.79	46.00	-21.21	
271.5687	13.00	16.06	29.06	46.00	-16.94	Horizontal
415.4486	8.52	19.86	28.38	46.00	-17.62	
736.6209	6.41	25.47	31.88	46.00	-14.12	

Note:

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

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

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

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

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. 2.4G Helicopter Controller (EUT)

Model Number : 50800TX
Serial Number : N/A
Manufacturer : Interactive Toy Concepts Limited

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 2414.000-2473.000MHz MHz. We are select 2414.000MHz, 2473.000MHz 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:	January 4, 2013	Temperature:	25°C
EUT:	2.4G Helicopter Controller	Humidity:	50%
Model No.:	50800TX	Power Supply:	DC 9V
Test Mode:	TX 2414.000MHz	Test Engineer:	Pei

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	
2310.000	42.29	47.59	-7.81	34.48	39.78	54.00	74.00	-19.52	-34.22	Vertical
2350.000	43.21	48.63	-7.79	35.42	40.84	54.00	74.00	-18.58	-33.16	Vertical
2390.000	52.47	57.38	-7.53	44.94	49.85	54.00	74.00	-9.06	-24.15	Vertical
2310.000	41.66	46.12	-7.81	33.85	38.31	54.00	74.00	-20.15	-35.69	Horizontal
2350.000	43.69	48.43	-7.79	35.90	40.64	54.00	74.00	-18.10	-33.36	Horizontal
2390.000	51.08	56.34	-7.53	43.55	48.81	54.00	74.00	-10.45	-25.19	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

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

Date of Test:	January 4, 2013	Temperature:	25°C
EUT:	2.4G Helicopter Controller	Humidity:	50%
Model No.:	50800TX	Power Supply:	DC 9V
Test Mode:	TX 2473.000MHz	Test Engineer:	Pei

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	
2483.131	48.21	53.22	-7.37	40.84	45.85	54.00	74.00	-13.16	-28.15	Vertical
2493.000	50.12	55.45	-7.39	42.73	48.06	54.00	74.00	-11.27	-25.94	Vertical
2500.000	49.67	54.15	-7.40	42.27	46.75	54.00	74.00	-11.73	-27.25	Vertical
2483.079	46.90	51.46	-7.37	39.53	44.09	54.00	74.00	-14.47	-29.91	Horizontal
2493.000	51.17	47.57	-7.39	40.18	45.24	54.00	74.00	-13.82	-28.76	Horizontal
2500.000	46.66	51.17	-7.40	39.26	43.77	54.00	74.00	-14.74	-30.23	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

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

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

Device is equipped with unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna

APPENDIX I (Test Curves)



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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4252

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2414MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Horizontal

Power Source: DC 9V

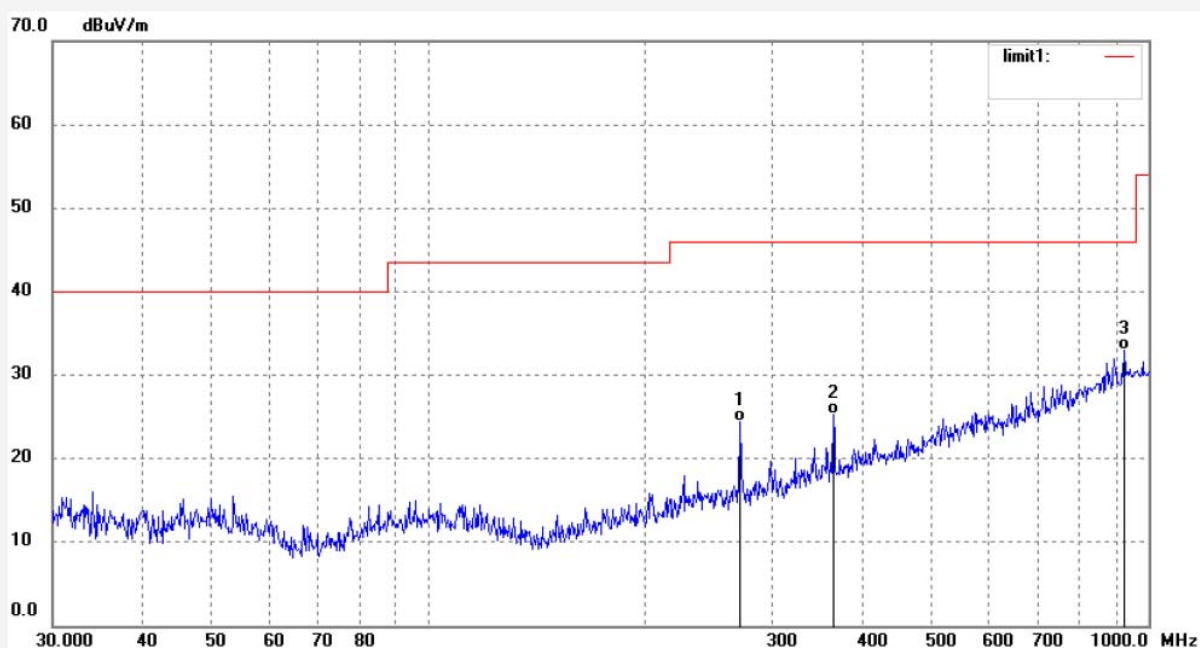
Date: 2013/01/04

Time: 10:36:08

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	270.6161	8.37	16.02	24.39	46.00	-21.61	QP			
2	364.8025	6.66	18.58	25.24	46.00	-20.76	QP			
3	925.6132	4.79	28.16	32.95	46.00	-13.05	QP			



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Fax:+86-0755-26503396

Job No.: Bob #4251

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2414MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Vertical

Power Source: DC 9V

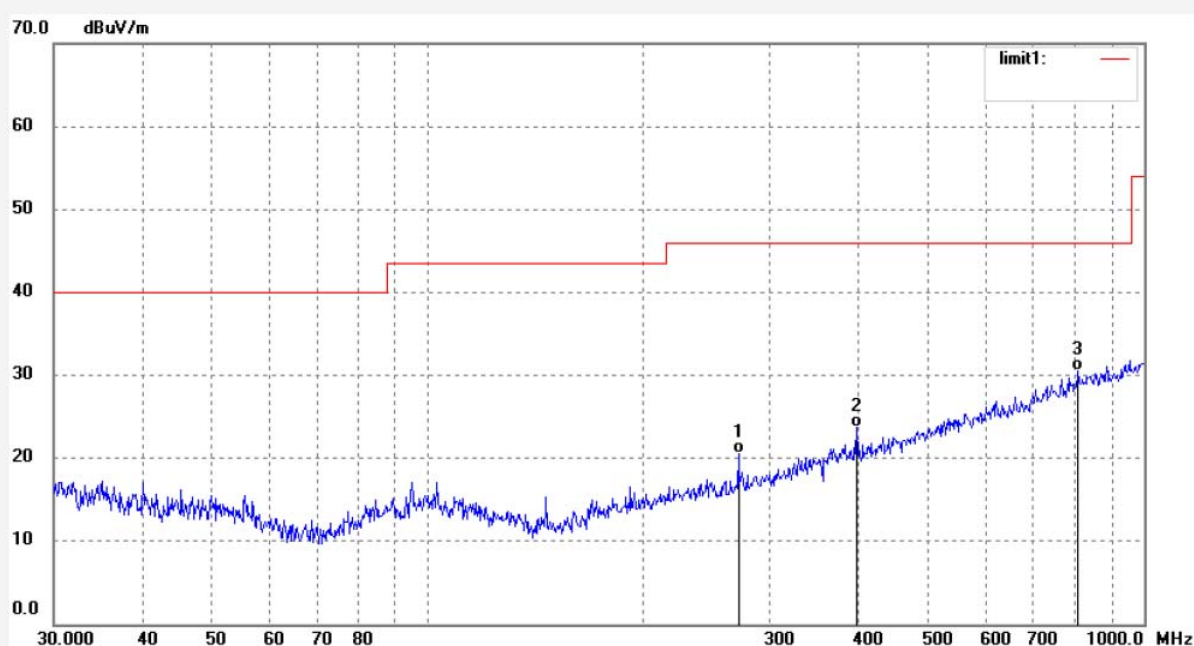
Date: 2013/01/04

Time: 10:35:17

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	271.5686	4.55	16.06	20.61	46.00	-25.39	QP			
2	396.8992	4.38	19.26	23.64	46.00	-22.36	QP			
3	809.9238	3.56	26.97	30.53	46.00	-15.47	QP			



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Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4218

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2414MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Horizontal

Power Source: DC 9V

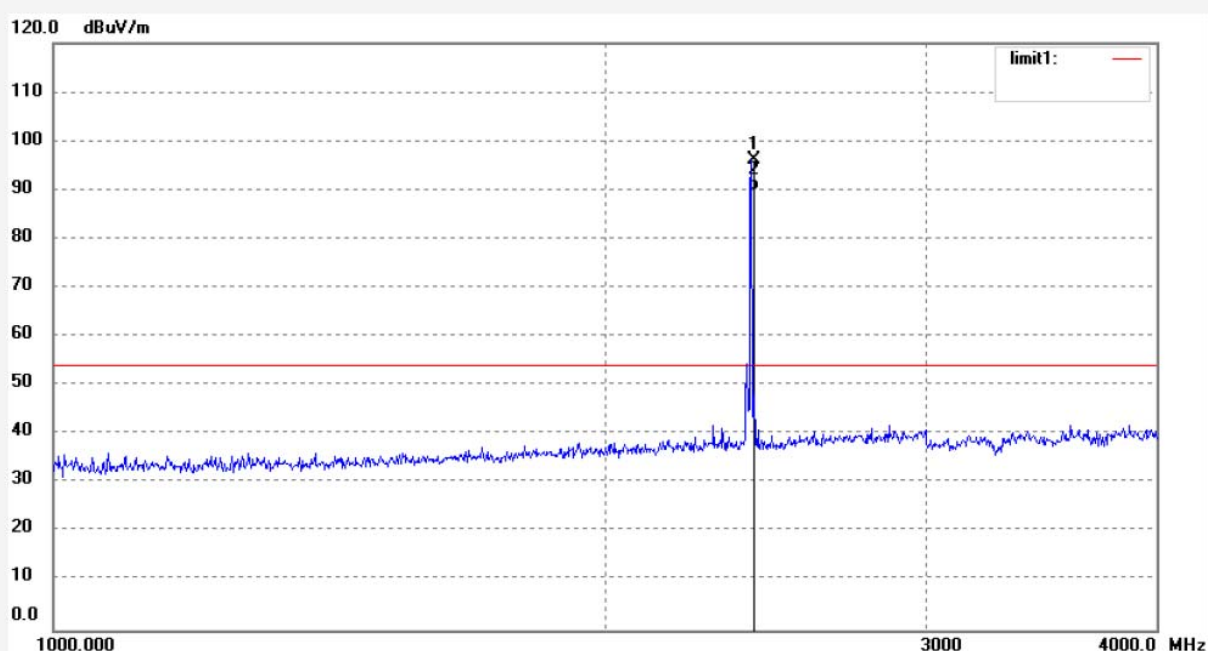
Date: 13/01/04/

Time: 9/13/10

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2414.000	103.67	-7.42	96.25	114.00	-17.75	peak			
2	2414.000	97.21	-7.42	89.79	94.00	-6.21	AVG			


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Job No.: Bob #4219

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2414MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Vertical

Power Source: DC 9V

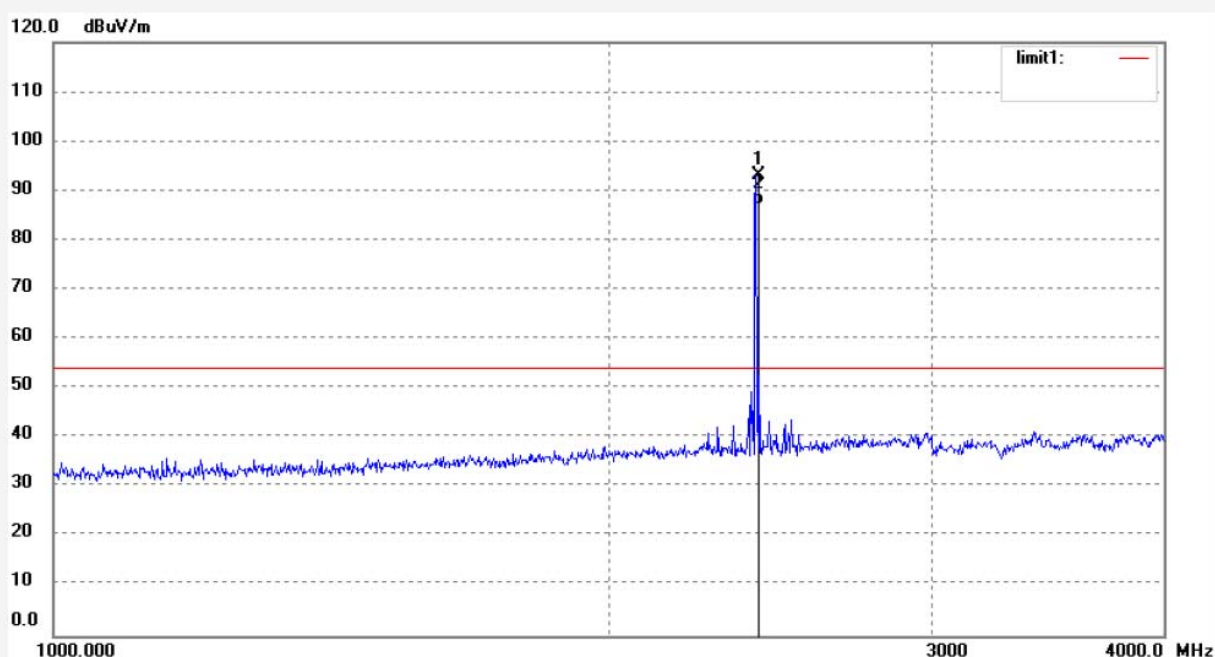
Date: 13/01/04/

Time: 9/16/30

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2414.000	100.55	-7.42	93.13	114.00	-20.87	peak			
2	2414.000	94.57	-7.42	87.15	94.00	-6.85	AVG			



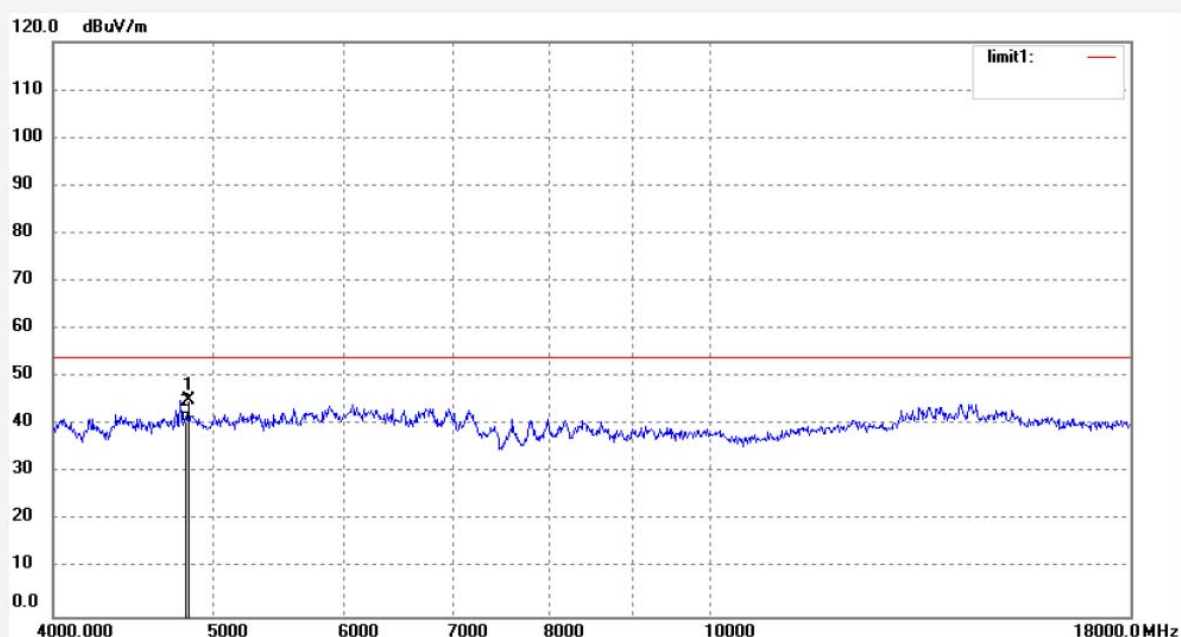
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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No.: Bob #4222	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 9V
Test item: Radiation Test	Date: 13/01/04/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/25/48
EUT: 2.4G Helicopter Controller	Engineer Signature: Bob
Mode: TX 2414MHz	Distance: 3m
Model: 50800TX	
Manufacturer: Interactive Toy Concepts(HK)Ltd.	

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4828.000	45.43	-0.17	45.26	74.00	-28.74	peak			
2	4828.000	40.95	-0.17	40.78	54.00	-13.22	AVG			



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Fax:+86-0755-26503396

Job No.: Bob #4224

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2414MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Vertical

Power Source: DC 9V

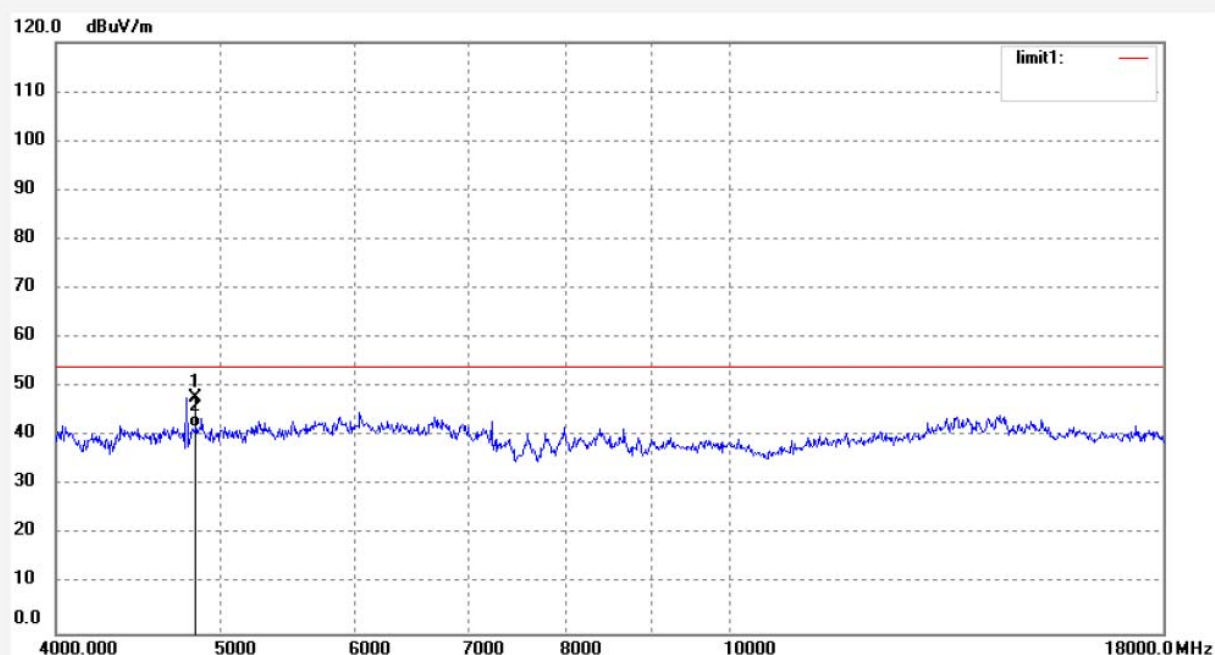
Date: 13/01/04/

Time: 9/27/20

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4828.000	47.92	-0.17	47.75	74.00	-26.25	peak			
2	4828.000	42.02	-0.17	41.85	54.00	-12.15	AVG			


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Fax:+86-0755-26503396

Job No.: Bob #4302

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2414MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Horizontal

Power Source: DC 9V

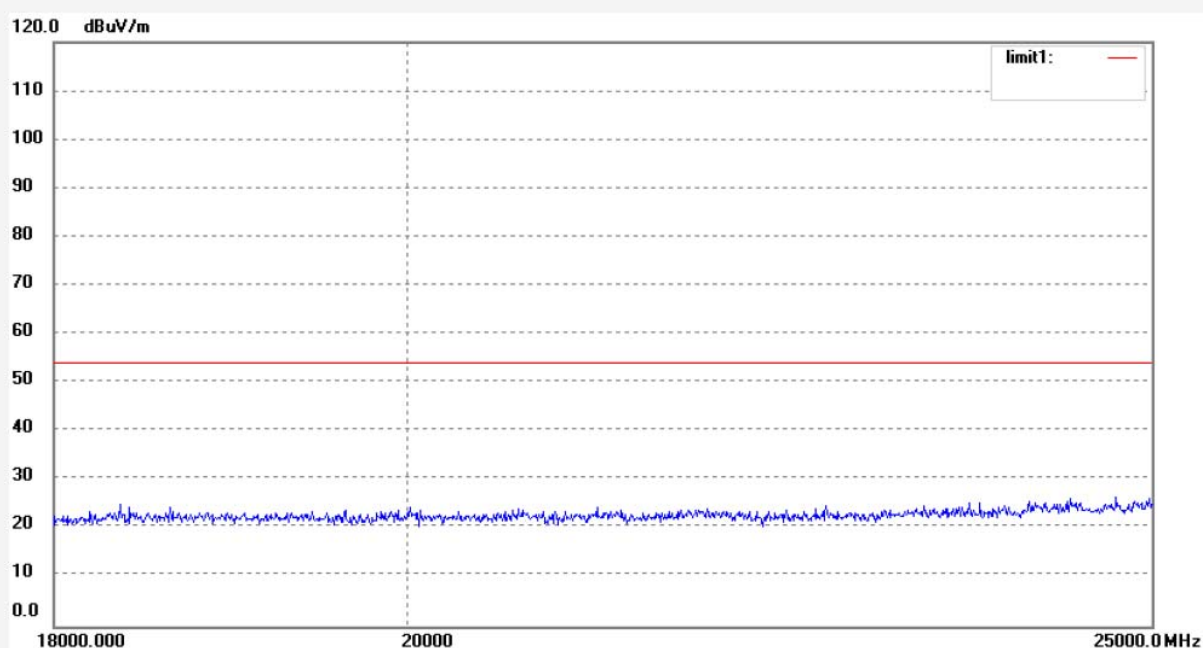
Date: 2013/01/04

Time: 11:39:46

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Fax:+86-0755-26503396

Job No.: Bob #4303

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2414MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Vertical

Power Source: DC 9V

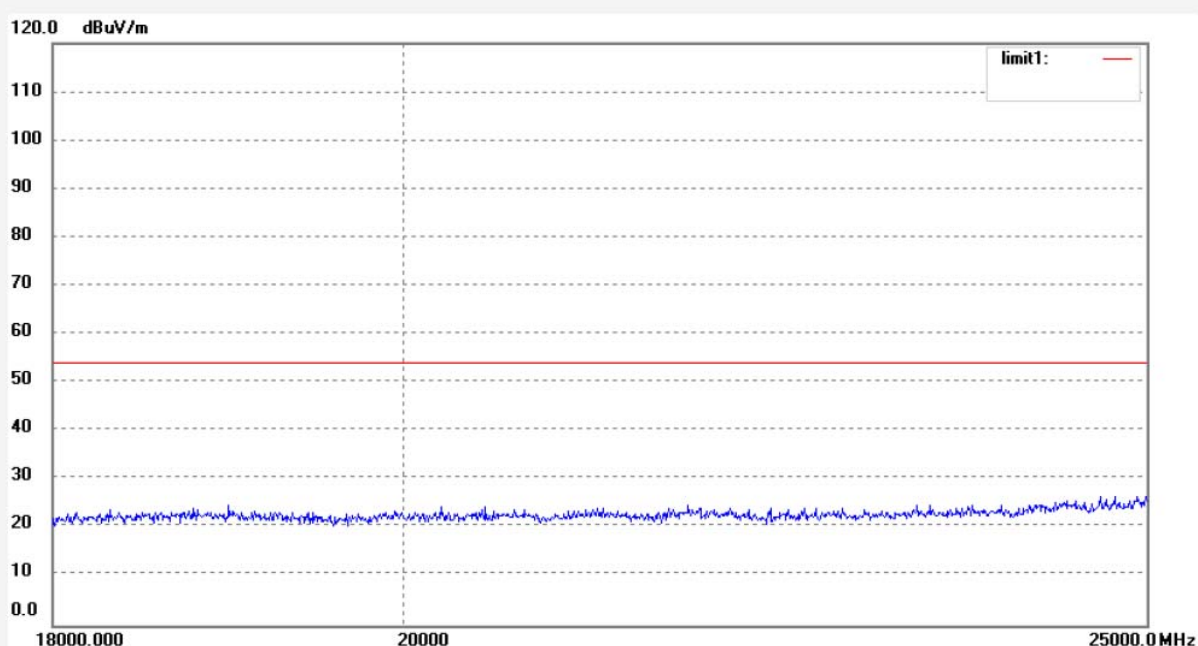
Date: 2013/01/04

Time: 11:41:08

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Job No.: Bob #4253

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2447MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Horizontal

Power Source: DC 9V

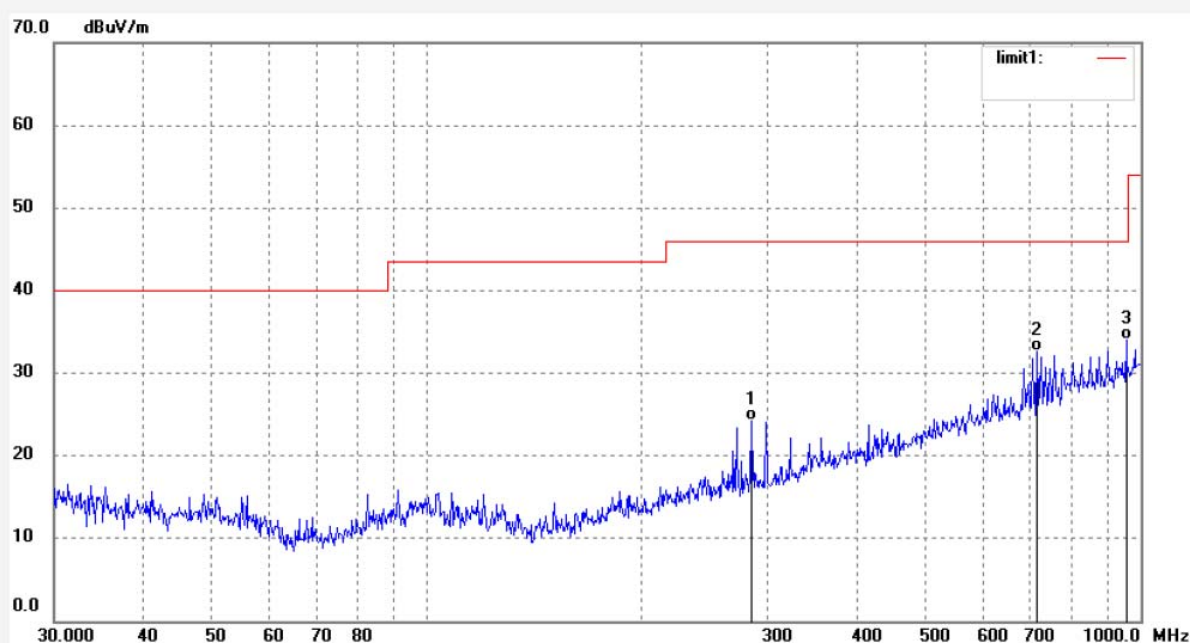
Date: 2013/01/04

Time: 10:37:00

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	285.2611	7.74	16.45	24.19	46.00	-21.81	QP			
2	716.2038	7.46	25.16	32.62	46.00	-13.38	QP			
3	955.3509	5.33	28.63	33.96	46.00	-12.04	QP			



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Fax:+86-0755-26503396

Job No.: Bob #4254

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2447MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Vertical

Power Source: DC 9V

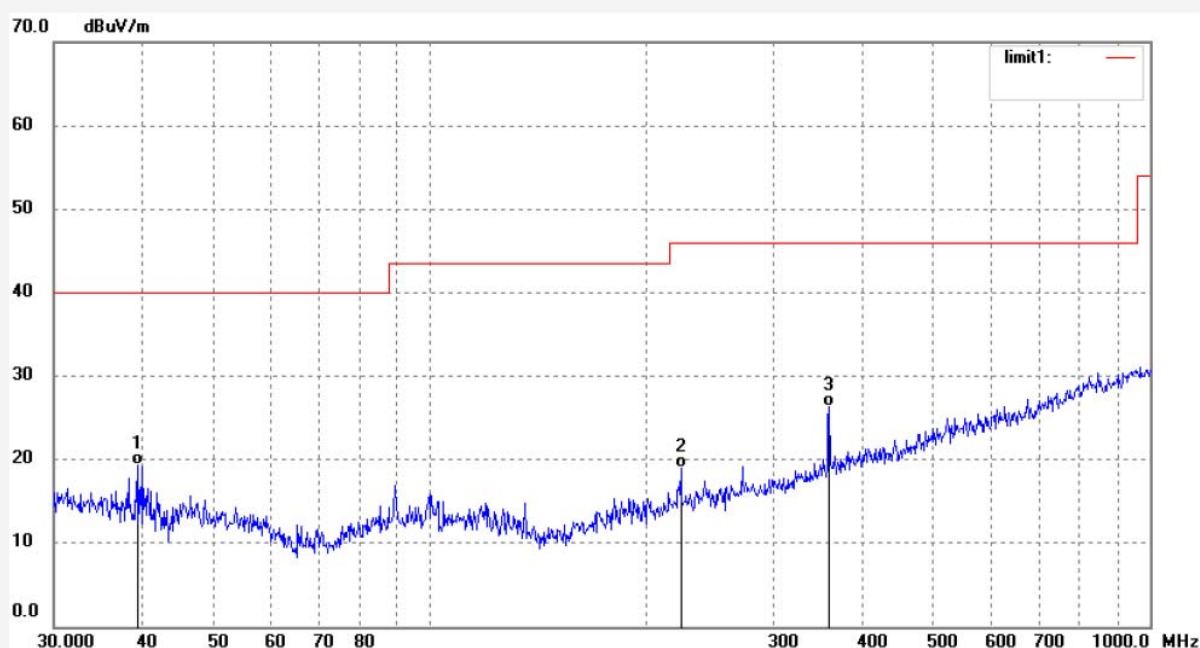
Date: 2013/01/04

Time: 10:39:04

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	39.3204	4.57	14.71	19.28	40.00	-20.72	QP			
2	223.0630	4.16	14.83	18.99	46.00	-27.01	QP			
3	358.4497	7.77	18.51	26.28	46.00	-19.72	QP			


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Fax:+86-0755-26503396

Job No.: Bob #4227

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2447MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Horizontal

Power Source: DC 9V

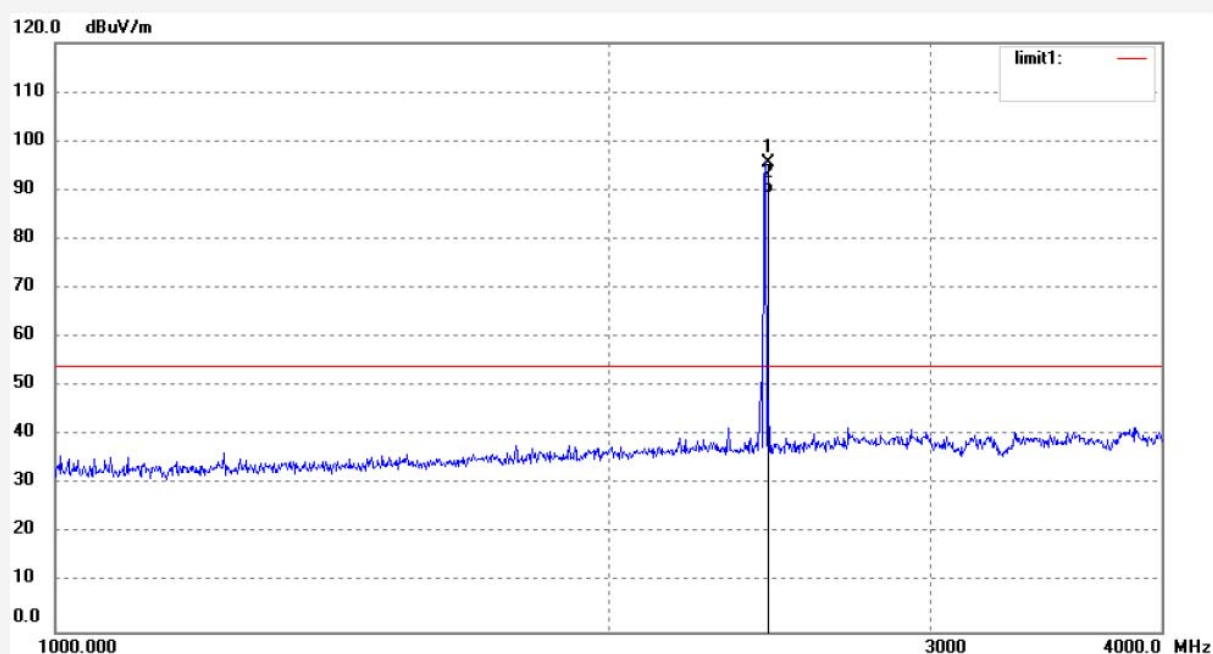
Date: 13/01/04/

Time: 9/35/46

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2447.000	102.78	-7.34	95.44	114.00	-18.44	peak			
2	2447.000	96.69	-7.34	89.35	94.00	-4.65	AVG			



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Job No.: Bob #4228

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2447MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Vertical

Power Source: DC 9V

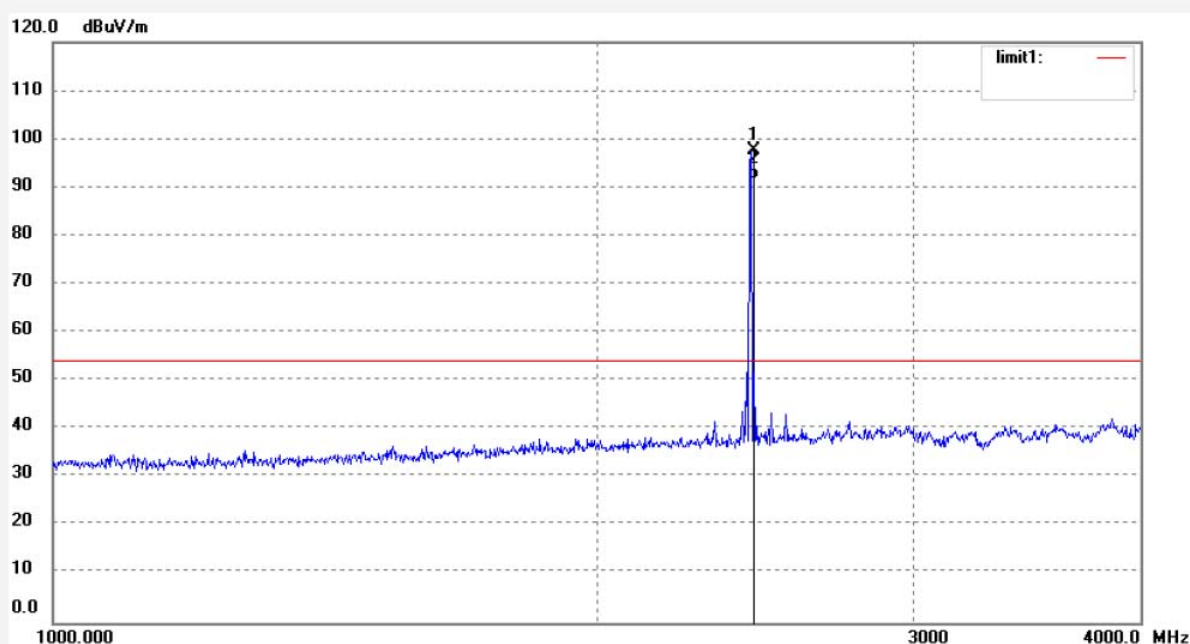
Date: 13/01/04/

Time: 9/38/30

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2447.000	104.95	-7.34	97.61	114.00	-16.39	peak			
2	2447.000	98.85	-7.34	91.51	94.00	-2.49	AVG			


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Fax:+86-0755-26503396

Job No.: Bob #4226

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2447MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Horizontal

Power Source: DC 9V

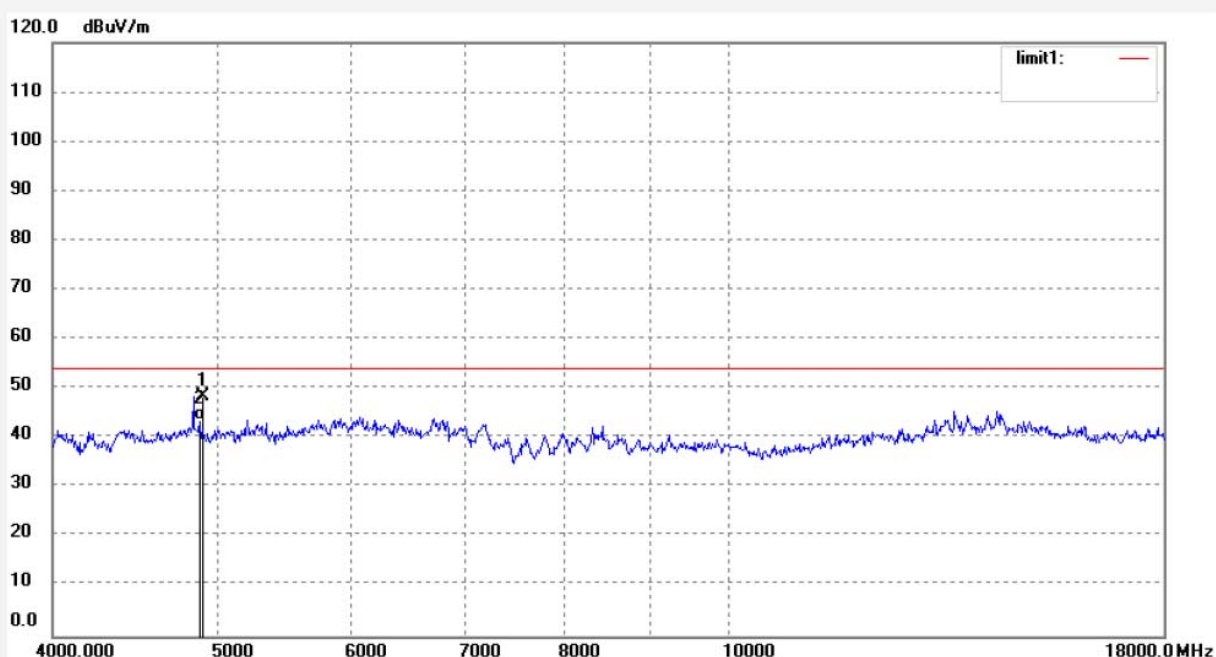
Date: 13/01/04/

Time: 9/33/07

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4894.000	48.20	0.20	48.40	74.00	-25.60	peak			
2	4894.000	43.33	0.20	43.53	54.00	-10.47	AVG			



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Job No.: Bob #4225

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2447MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Vertical

Power Source: DC 9V

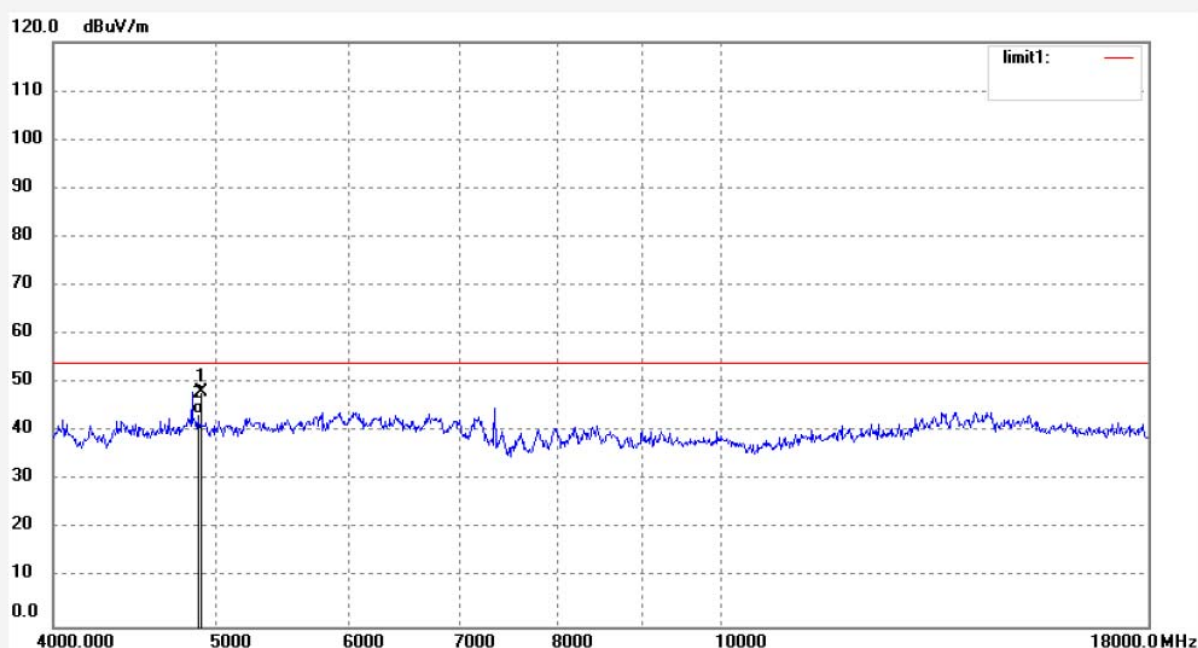
Date: 13/01/04/

Time: 9/31/01

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4894.000	48.07	0.20	48.27	74.00	-25.73	peak			
2	4894.000	43.36	0.20	43.56	54.00	-10.44	AVG			



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Job No.: Bob #4305

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2447MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Horizontal

Power Source: DC 9V

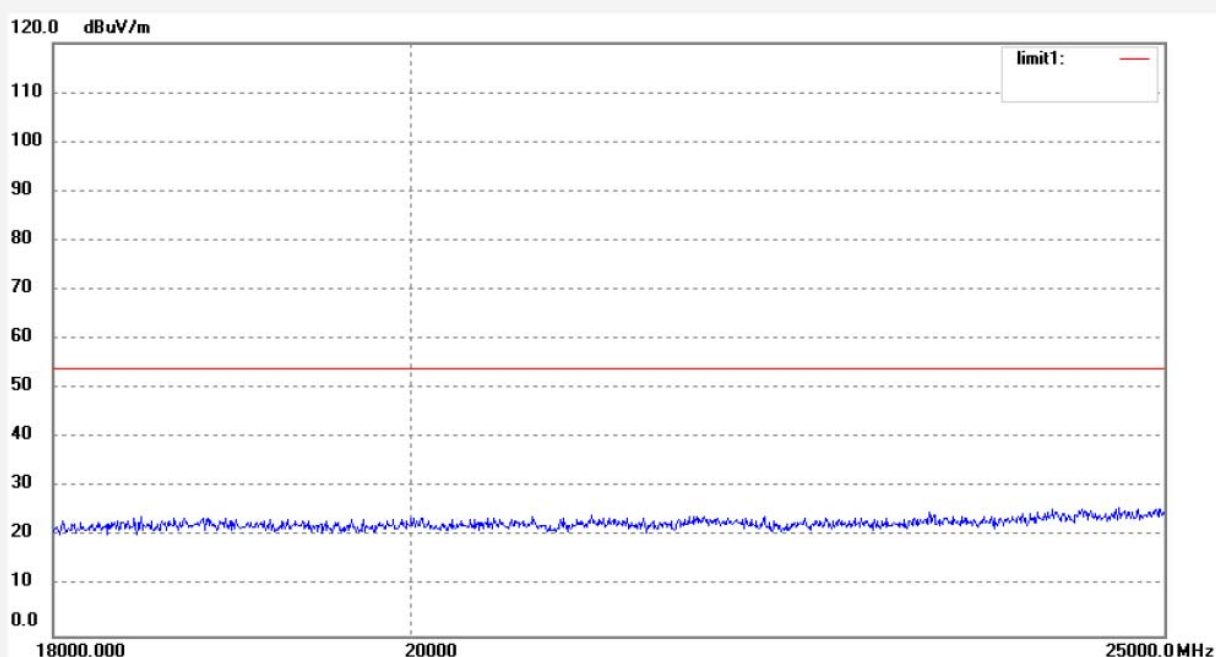
Date: 2013/01/04

Time: 11:47:43

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: Bob #4304

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2447MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Vertical

Power Source: DC 9V

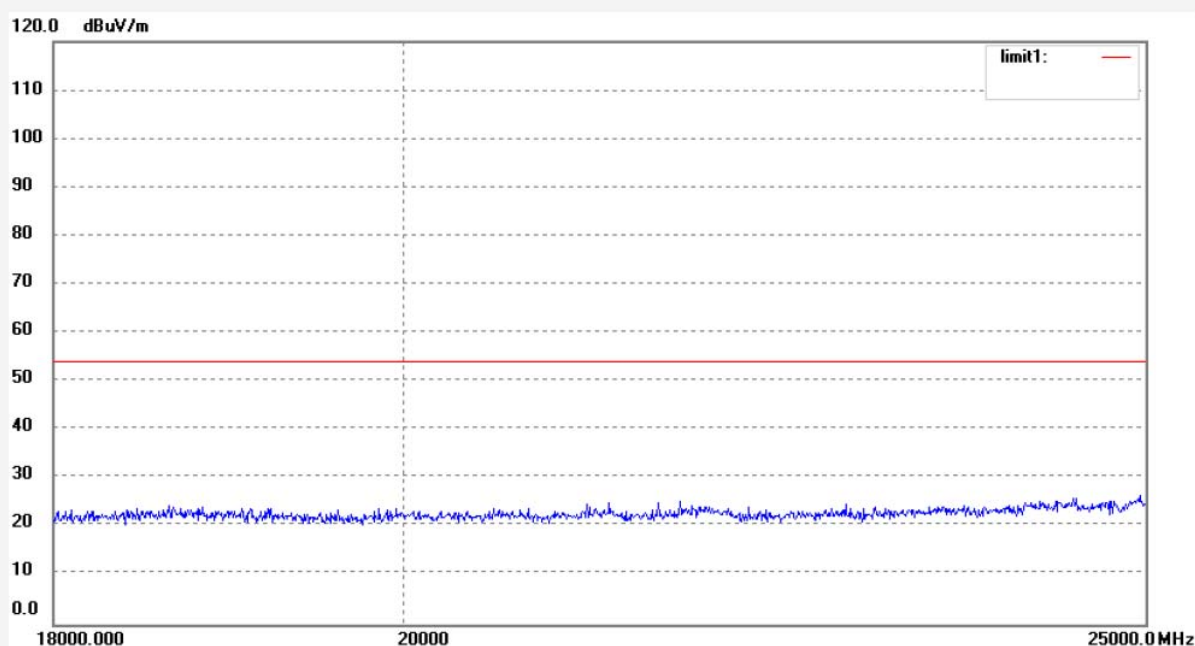
Date: 2013/01/04

Time: 11:44:21

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Fax:+86-0755-26503396

Job No.: Bob #4256

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2473MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Horizontal

Power Source: DC 9V

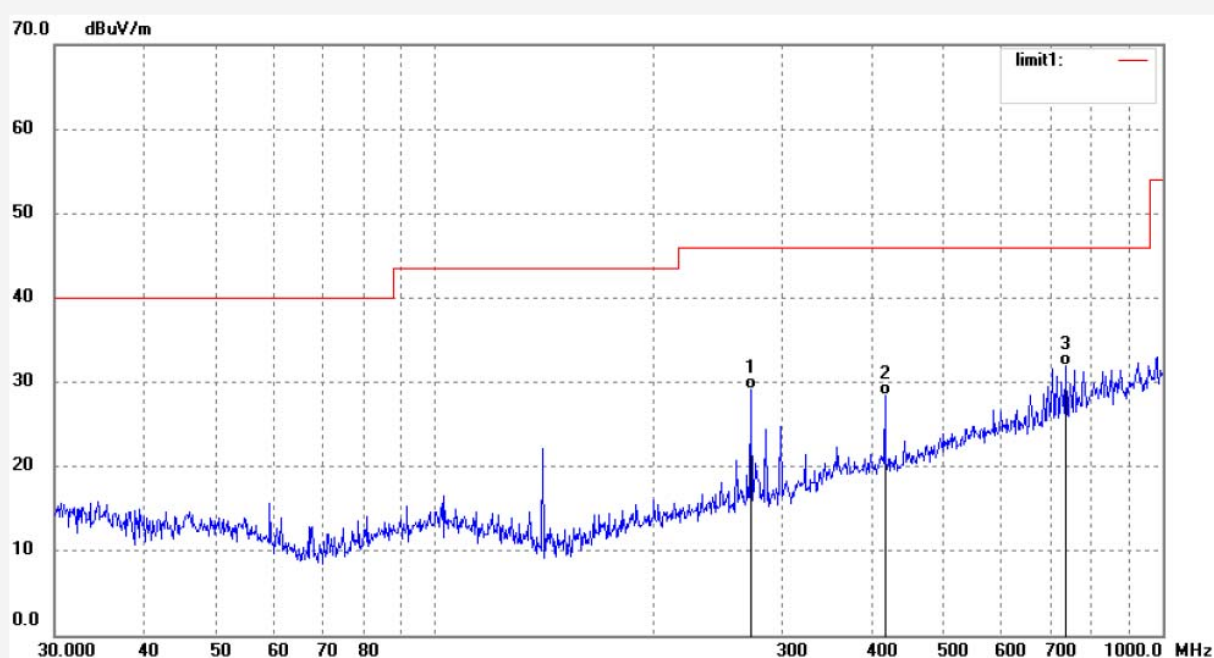
Date: 2013/01/04

Time: 10:42:05

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	271.5687	13.00	16.06	29.06	46.00	-16.94	QP			
2	415.4486	8.52	19.86	28.38	46.00	-17.62	QP			
3	736.6209	6.41	25.47	31.88	46.00	-14.12	QP			



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Fax:+86-0755-26503396

Job No.: Bob #4255

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2473MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Vertical

Power Source: DC 9V

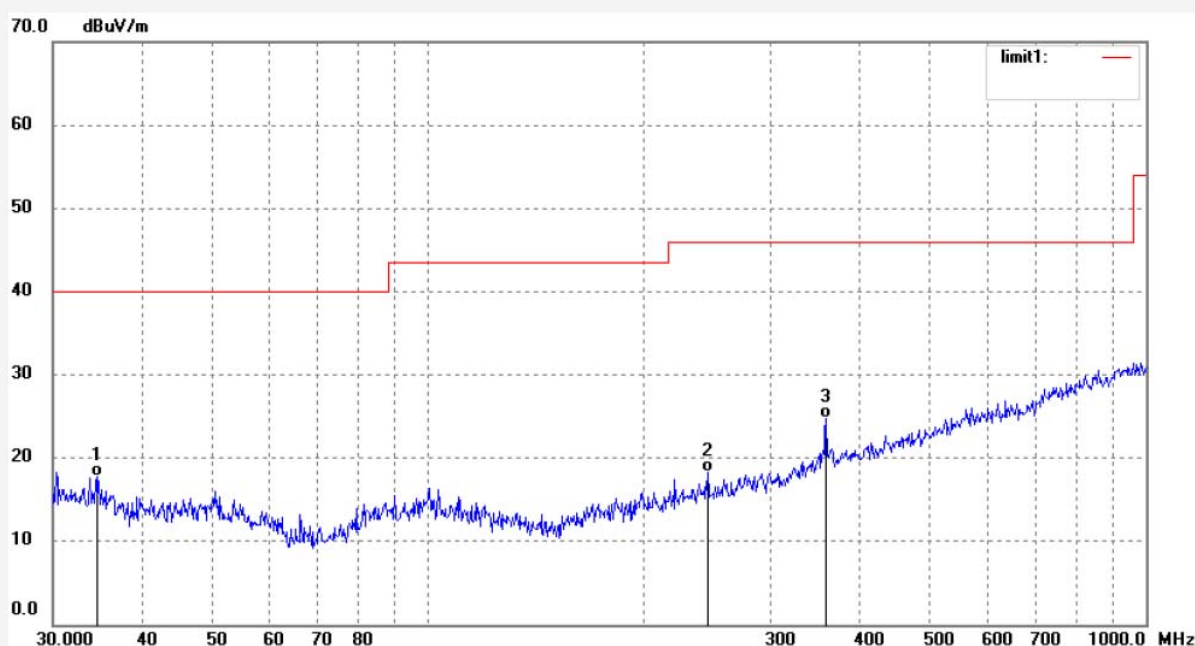
Date: 2013/01/04

Time: 10:40:44

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.5270	2.09	15.73	17.82	40.00	-22.18	QP			
2	245.2606	2.83	15.48	18.31	46.00	-27.69	QP			
3	358.4497	6.28	18.51	24.79	46.00	-21.21	QP			


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Site: 2# Chamber

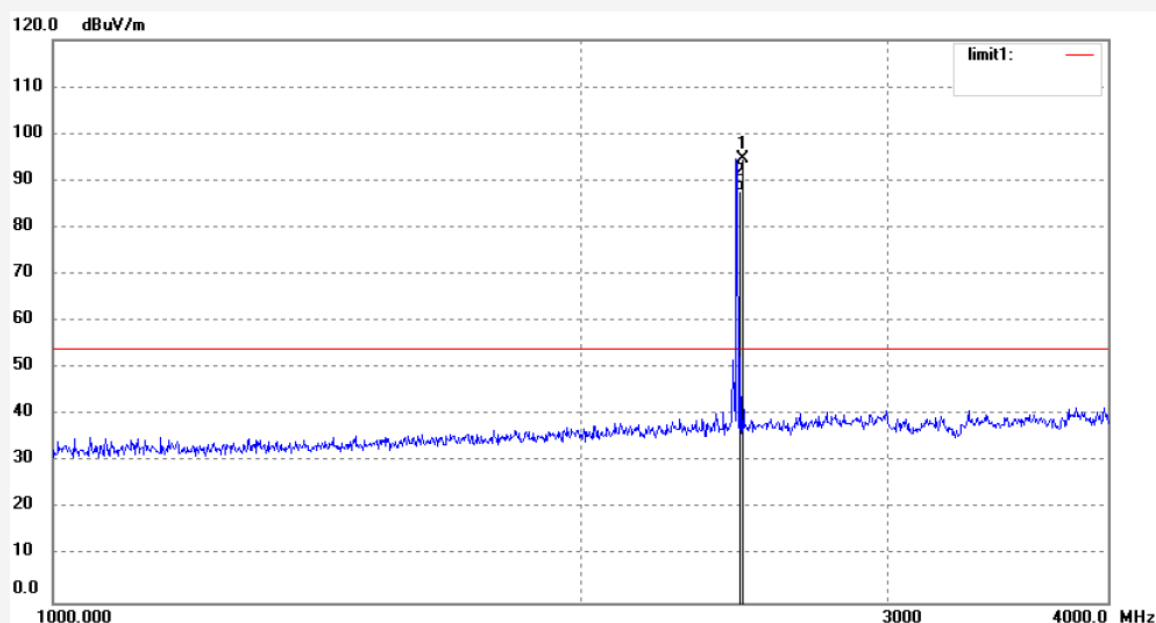
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4230
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: 2.4G Helicopter Controller
Mode: TX 2473MHz
Model: 50800TX
Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Horizontal
Power Source: DC 9V
Date: 13/01/04/
Time: 9/44/13
Engineer Signature: Bob
Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.000	101.98	-7.36	94.62	114.00	-19.38	peak			
2	2473.000	95.15	-7.36	87.79	94.00	-6.21	AVG			


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Job No.: Bob #4229

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2473MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Vertical

Power Source: DC 9V

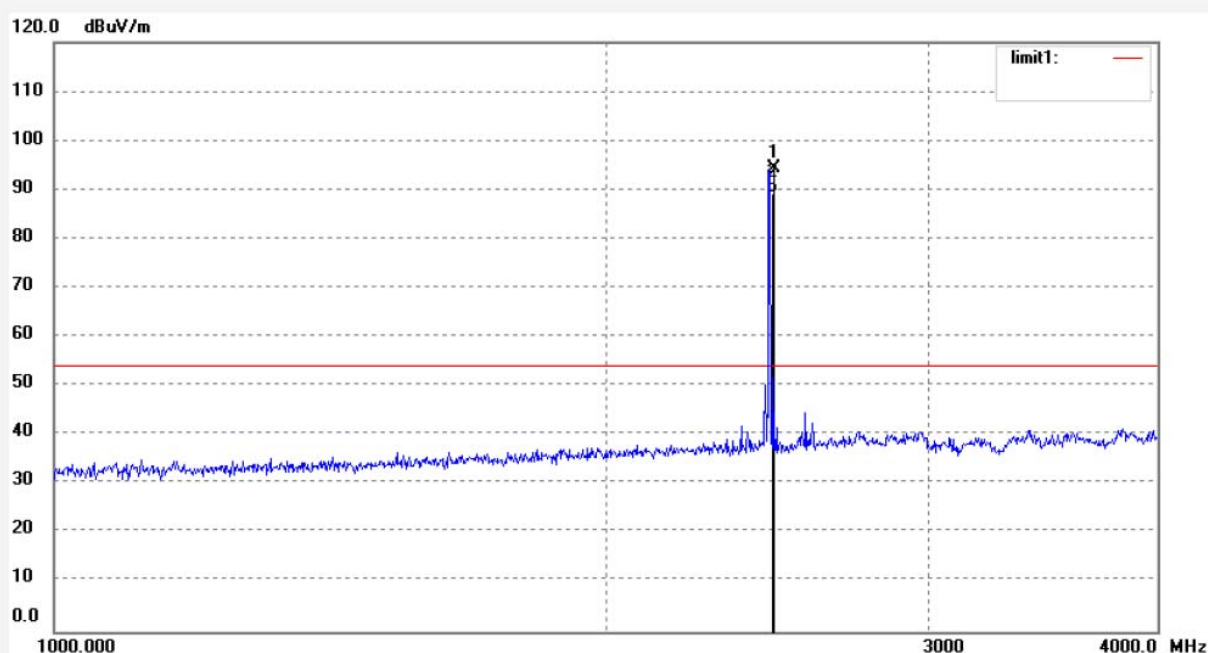
Date: 13/01/04/

Time: 9/42/05

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.000	101.60	-7.36	94.24	114.00	-19.76	peak			
2	2473.000	96.51	-7.36	89.15	94.00	-4.85	AVG			


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Job No.: Bob #4234

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2473MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Horizontal

Power Source: DC 9V

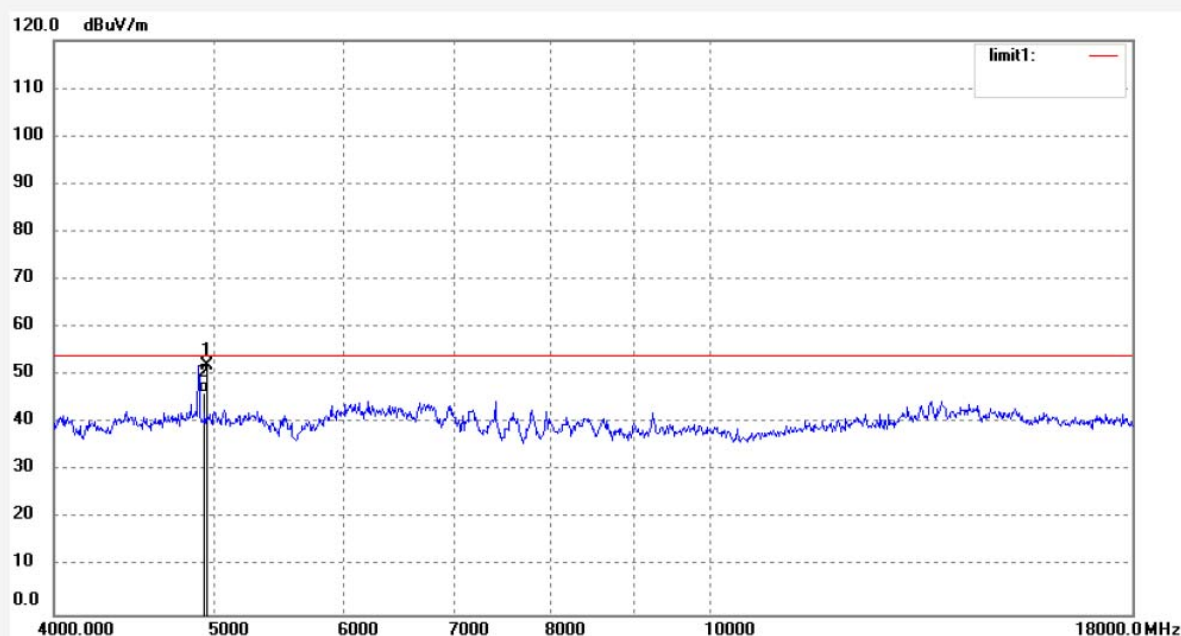
Date: 13/01/04/

Time: 9/58/30

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4946.000	51.56	0.46	52.02	74.00	-21.98	peak			
2	4946.000	45.97	0.46	46.43	54.00	-7.57	AVG			


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Fax:+86-0755-26503396

Job No.: Bob #4233

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2473MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Vertical

Power Source: DC 9V

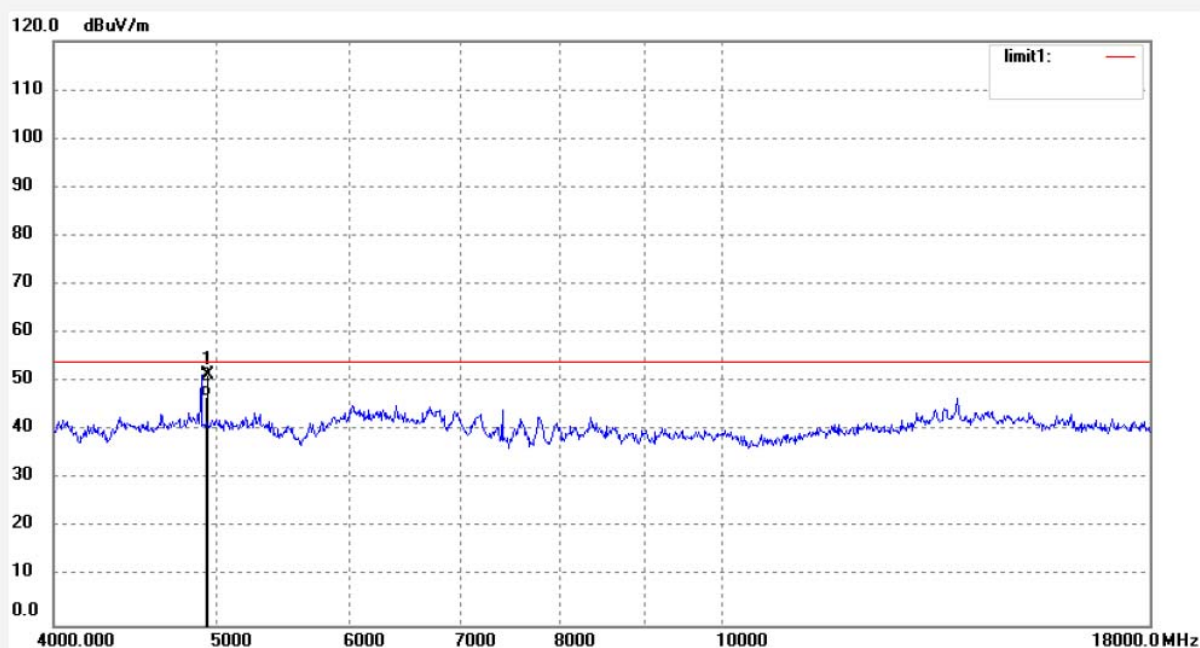
Date: 13/01/04/

Time: 9/56/13

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4946.000	51.04	0.46	51.50	74.00	-22.50	peak			
2	4946.000	46.61	0.46	47.07	54.00	-6.93	AVG			



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Job No.: Bob #4306

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2473MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Horizontal

Power Source: DC 9V

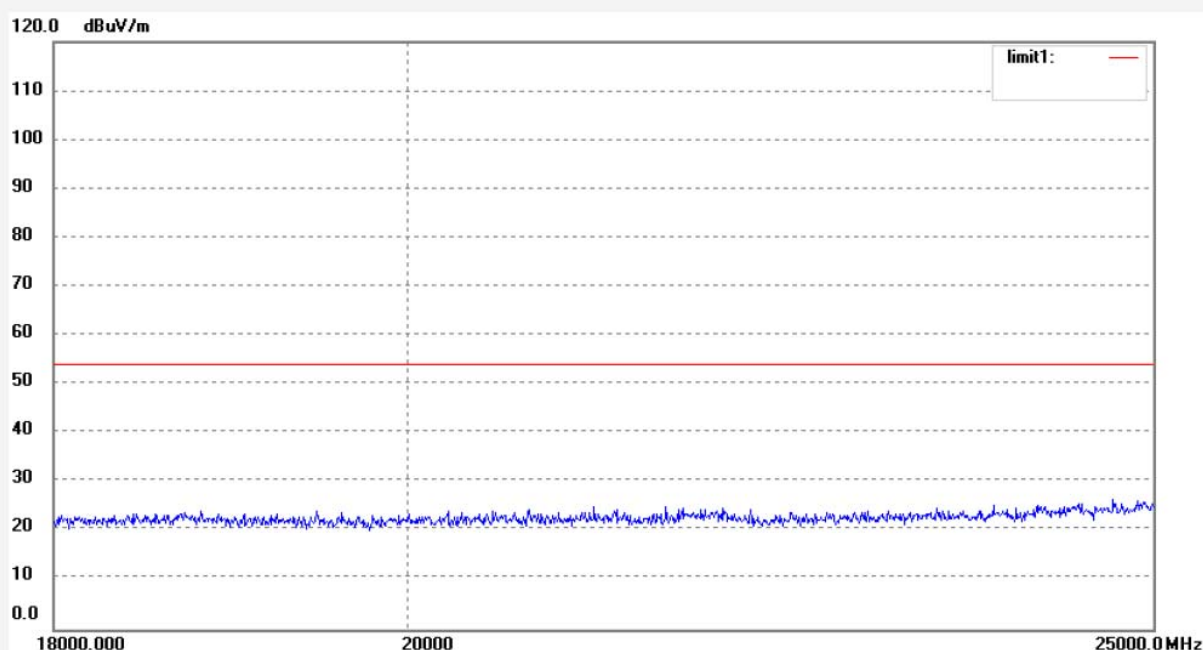
Date: 2013/01/04

Time: 11:49:56

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 2# Chamber

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Job No.: Bob #4307

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2473MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Vertical

Power Source: DC 9V

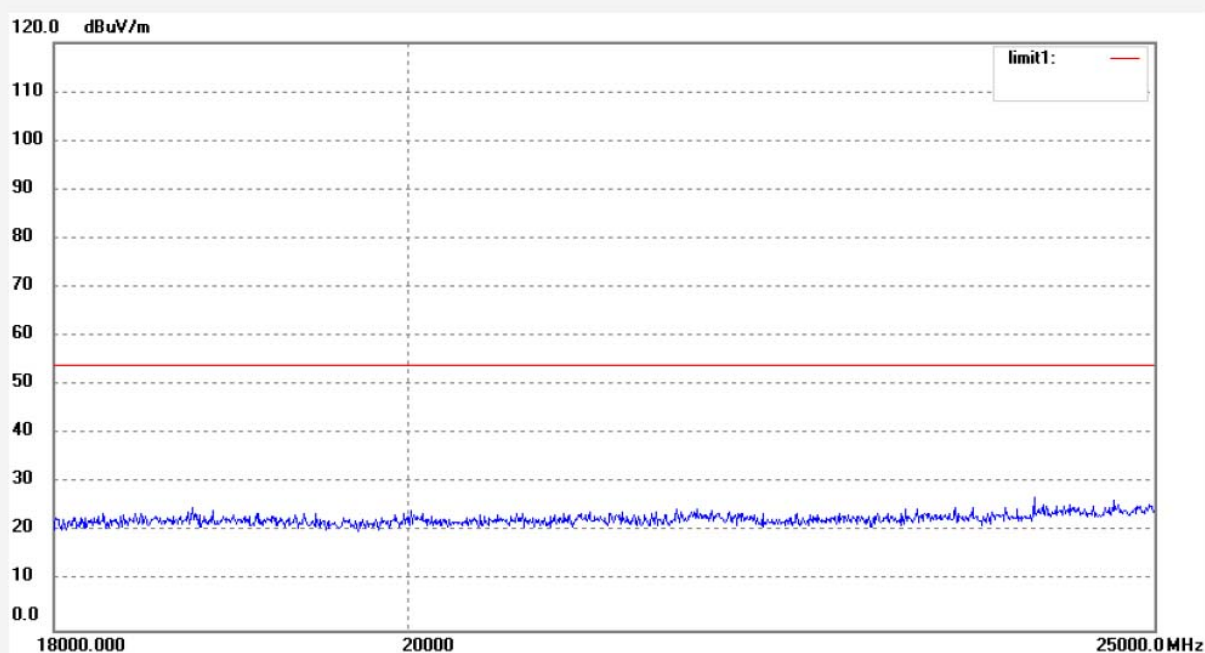
Date: 2013/01/04

Time: 11:51:17

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Job No.: Bob #4221

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2414MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Horizontal

Power Source: DC 9V

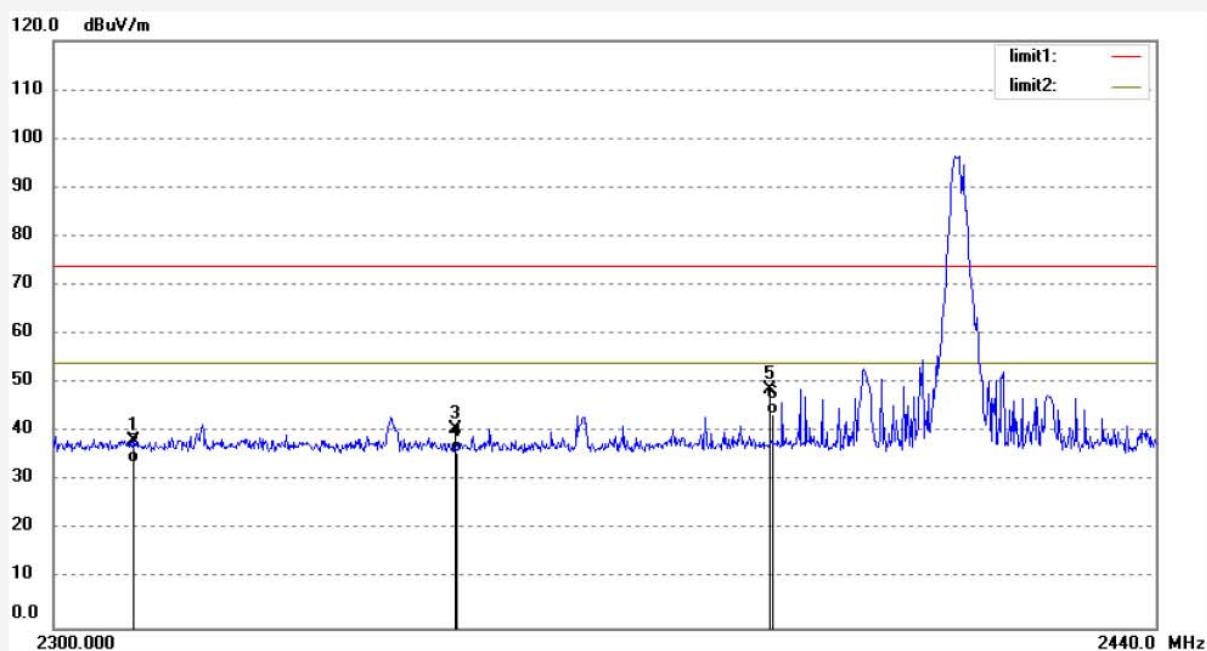
Date: 13/01/04/

Time: 9/23/05

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	46.12	-7.81	38.31	74.00	-35.69	peak			
2	2310.000	41.66	-7.81	33.85	54.00	-20.15	AVG			
3	2350.000	48.43	-7.79	40.64	74.00	-33.36	peak			
4	2350.000	43.69	-7.79	35.90	54.00	-18.10	AVG			
5	2390.000	56.34	-7.53	48.81	74.00	-25.19	peak			
6	2390.000	51.08	-7.53	43.55	54.00	-10.45	AVG			



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Job No.: Bob #4220

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2414MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Vertical

Power Source: DC 9V

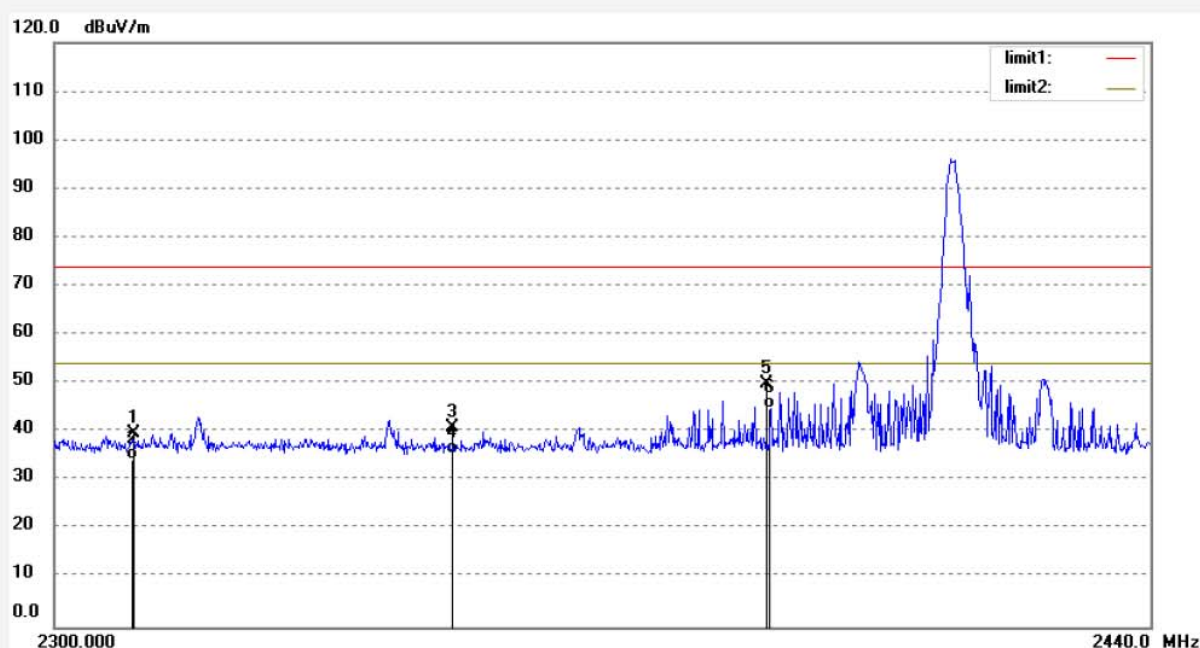
Date: 13/01/04/

Time: 9/19/17

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	47.59	-7.81	39.78	74.00	-34.22	peak			
2	2310.000	42.29	-7.81	34.48	54.00	-19.52	AVG			
3	2350.000	48.63	-7.79	40.84	74.00	-33.16	peak			
4	2350.000	43.21	-7.79	35.42	54.00	-18.58	AVG			
5	2390.000	57.38	-7.53	49.85	74.00	-24.15	peak			
6	2390.000	52.47	-7.53	44.94	54.00	-9.06	AVG			


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Job No.: Bob #4231

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2473MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Horizontal

Power Source: DC 9V

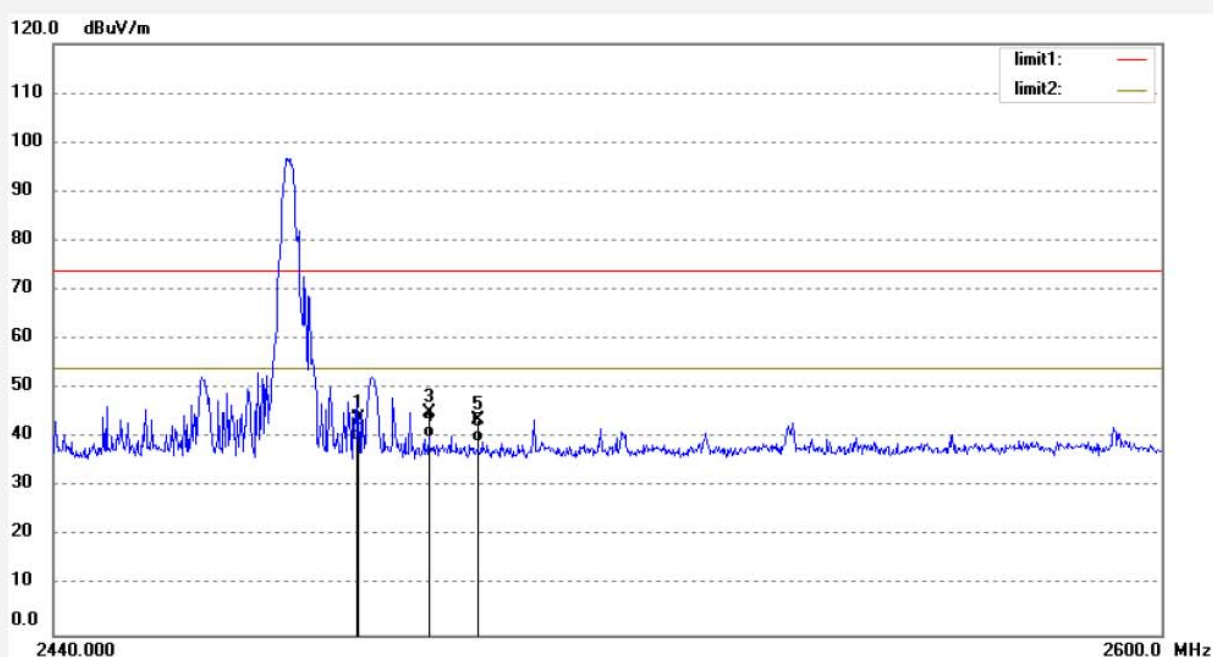
Date: 13/01/04/

Time: 9/47/34

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.079	51.46	-7.37	44.09	74.00	-29.91	peak			
2	2483.079	46.90	-7.37	39.53	54.00	-14.47	AVG			
3	2493.000	52.63	-7.39	45.24	74.00	-28.76	peak			
4	2493.000	47.57	-7.39	40.18	54.00	-13.82	AVG			
5	2500.000	51.17	-7.40	43.77	74.00	-30.23	peak			
6	2500.000	46.66	-7.40	39.26	54.00	-14.74	AVG			


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Job No.: Bob #4232

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: 2.4G Helicopter Controller

Mode: TX 2473MHz

Model: 50800TX

Manufacturer: Interactive Toy Concepts(HK)Ltd.

Polarization: Vertical

Power Source: DC 9V

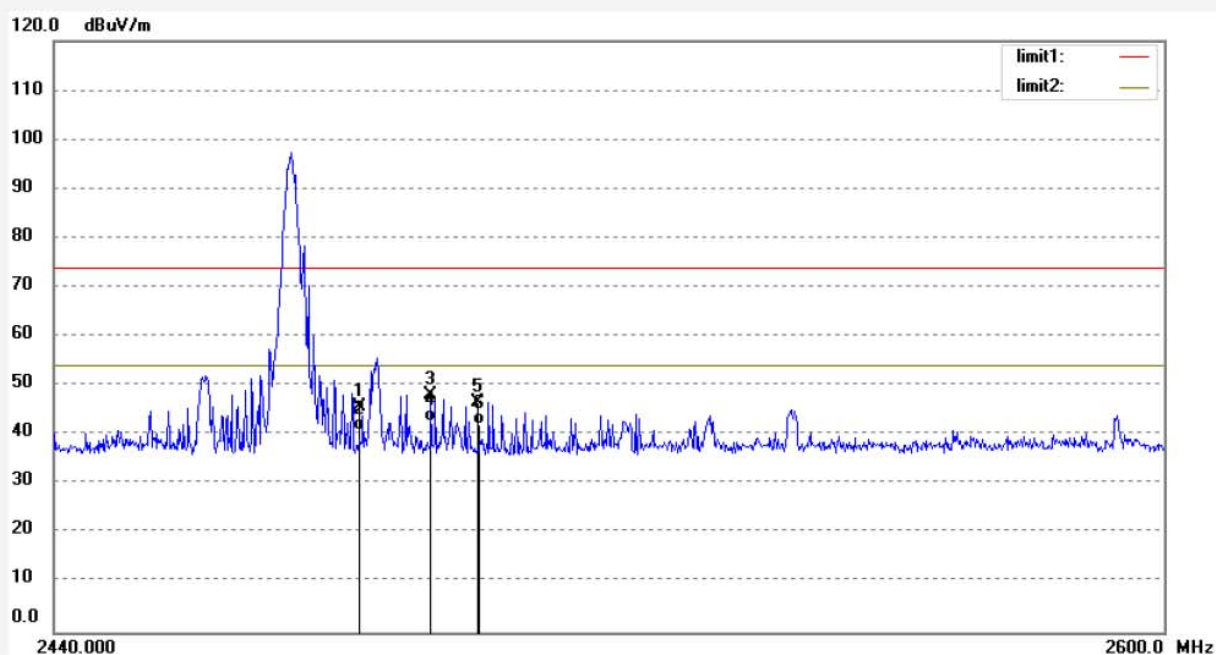
Date: 13/01/04/

Time: 9/51/31

Engineer Signature: Bob

Distance: 3m

Note: Report NO.:ATE20122925



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.131	53.22	-7.37	45.85	74.00	-28.15	peak			
2	2483.131	48.21	-7.37	40.84	54.00	-13.16	AVG			
3	2493.000	55.45	-7.39	48.06	74.00	-25.94	peak			
4	2493.000	50.12	-7.39	42.73	54.00	-11.27	AVG			
5	2500.000	54.15	-7.40	46.75	74.00	-27.25	peak			
6	2500.000	49.67	-7.40	42.27	54.00	-11.73	AVG			