FCC CERTIFICATION
On Behalf of
Interactive Toy Concepts Limited

2.4G Flier
Model No.: 22033V2RX

FCC ID: RSD-22033V2RX

Prepared for	:	Interactive Toy Concepts Limited
Address	:	Unit 709, 7/F., Tower 2, Cheung Sha Wan Plaza, No.833 Cheung Sha Wan Rd., Kowloon, Hong Kong
Prepared by	:	ACCURATE TECHNOLOGY CO. LTD
Address	:	F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China Tel: (0755) 26503290 Fax: (0755) 26503396

Report Number	:	ATE20140652
Date of Test	:	April 29, 2014
Date of Report	:	May 6, 2014

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Description Page

Test Report Certification

Applicant	:	Interactive Toy Concepts Limited
Manufacturer	:	Interactive Toy Concepts Limited
EUT Description	:	2.4G Flier
		(A) MODEL NO.: 22033V2RX
		(B) POWER SUPPLY: 3.7V DC (Power by Li-Ion battery) and AC120V/60Hz (Power by USB Port)

Measurement Procedure Used:

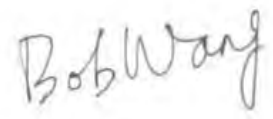
FCC Rules and Regulations Part 15 Subpart C Section 15.249
ANSI C63.4: 2009

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.

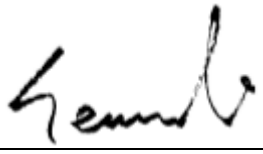
Date of Test : April 29, 2014

Prepared by :



(Engineer)

Approved & Authorized Signer :



(Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT	:	2.4G Flier
Model Number	:	22033V2RX
Power Supply	:	3.7V DC (Power by Li-Ion battery) and AC120V/60Hz (Power by USB Port)
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	:	April 29, 2014
Date of Test	:	April 29, 2014

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 date	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 11, 2014	Jan. 10, 2015
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 11, 2014	Jan. 10, 2015
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 11, 2014	Jan. 10, 2015
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	Jan. 11, 2014	Jan. 10, 2015
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2014	Jan. 14, 2015
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2014	Jan. 14, 2015
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2014	Jan. 14, 2015
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 15, 2014	Jan. 14, 2015
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 11, 2014	Jan. 10, 2015
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 11, 2014	Jan. 10, 2015

3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	Compliant
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
Section 15.207	AC Power Line Conducted Emission Test	Compliant

Remark: “N/A” means “Not applicable”.

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

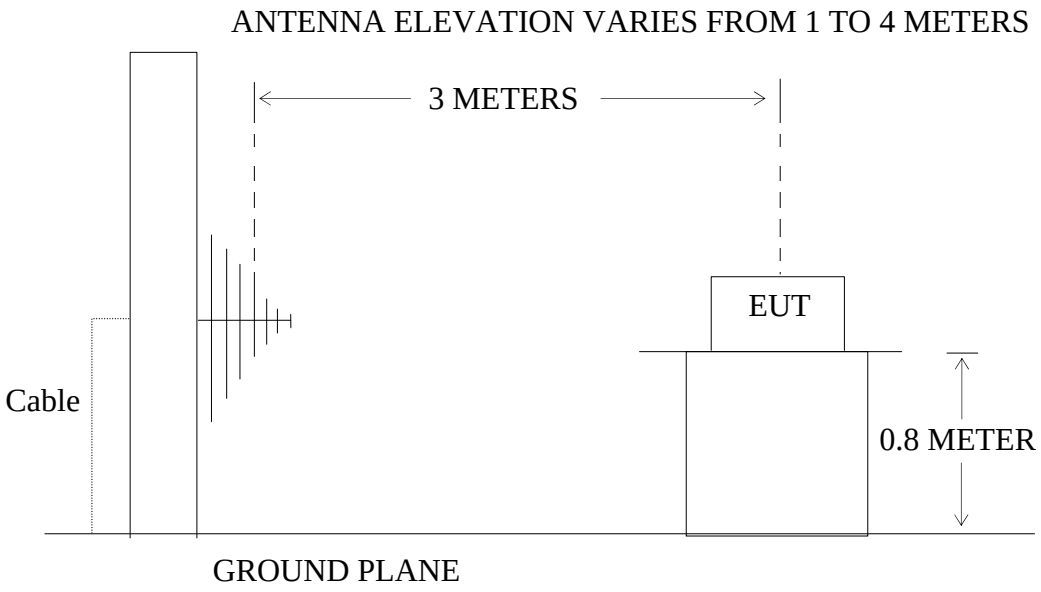
4.1.Block Diagram of Test Setup

4.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: 2.4G Flier)

4.1.2.Semi-Anechoic Chamber Test Setup Diagram



(EUT: 2.4G Flier)

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 dBμV/m and the harmonics shall not exceed 54 dBμV/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 Flier (EUT)

Model Number	**:**	22033V2RX
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 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:	April 29, 2014	Temperature:	25°C
EUT:	2.4G Flier	Humidity:	50%
Model No.:	22033V2RX	Power Supply:	DC 3.7V
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	80.11	88.68	-6.71	73.40	81.97	94.00	114.00	-20.60	-32.03	Vertical
2414.000	78.14	86.85	-6.71	71.43	80.14	94.00	114.00	-22.57	-33.86	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	47.36	52.67	-1.51	45.85	51.16	54.00	74.00	-8.15	-22.84	Vertical
7242.000	44.51	50.91	1.33	45.84	52.24	54.00	74.00	-8.16	-21.76	Vertical
4828.000	44.10	50.36	-1.51	42.59	48.85	54.00	74.00	-11.41	-25.15	Horizontal
7242.000	43.96	50.62	1.32	42.28	51.94	54.00	74.00	-8.72	-22.06	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:	April 29, 2014	Temperature:	25°C
EUT:	2.4G Flier	Humidity:	50%
Model No.:	22033V2RX	Power Supply:	DC 3.7V
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	80.41	87.37	-6.63	73.78	80.74	94.00	114.00	-20.22	-33.26	Vertical
2447.000	76.52	84.96	-6.63	69.89	78.33	94.00	114.00	-24.11	-35.67	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	45.90	51.65	-1.34	44.56	50.31	54.00	74.00	-9.44	-23.69	Vertical
7341.000	42.20	48.68	1.42	43.62	50.10	54.00	74.00	-10.38	-23.90	Vertical
4894.000	45.22	51.89	-1.34	43.88	50.55	54.00	74.00	-10.12	-23.45	Horizontal
7341.000	44.25	50.11	1.42	45.67	51.53	54.00	74.00	-8.33	-22.47	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:	April 29, 2014	Temperature:	25°C
EUT:	2.4G Flier	Humidity:	50%
Model No.:	22033V2RX	Power Supply:	DC 3.7V
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	76.22	84.92	-6.56	-69.66	78.36	94.00	114.00	-24.34	-35.64	Vertical
2473.000	81.75	88.16	-6.56	75.19	81.60	94.00	114.00	-18.81	-32.40	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	49.99	56.37	-1.15	48.84	55.22	54.00	74.00	-5.16	-18.78	Vertical
7419.000	45.10	50.93	1.47	46.57	52.40	54.00	74.00	-7.43	-21.60	Vertical
4946.000	43.21	49.34	-1.15	42.06	48.19	54.00	74.00	-11.94	-25.81	Horizontal
7419.000	44.25	50.71	1.49	45.74	52.20	54.00	74.00	-8.26	-21.80	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.

5. SPURIOUS RADIATED EMISSION FOR SECTION 15.249(D)

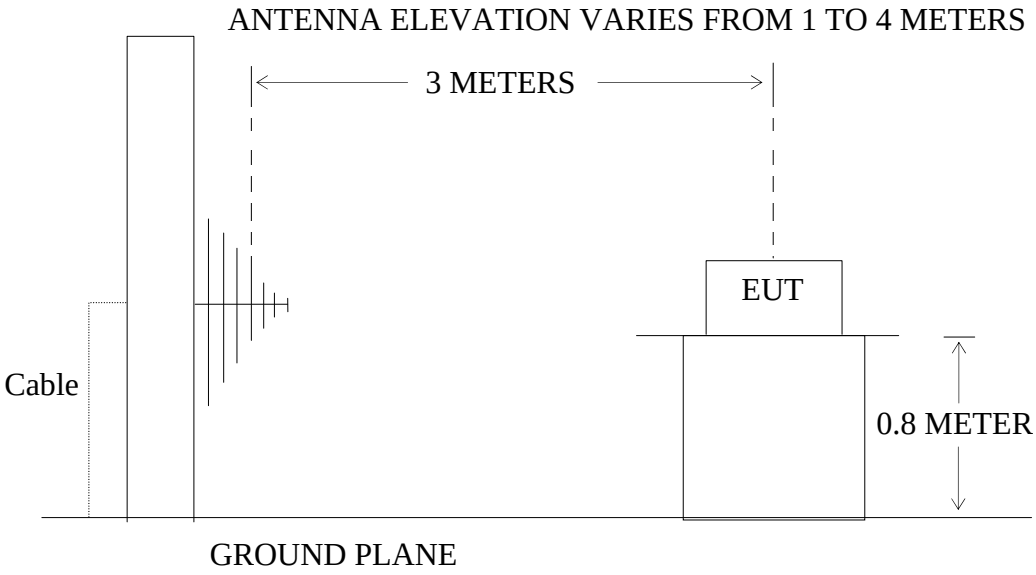
5.1.Block Diagram of Test Setup

5.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: 2.4G Flier)

5.1.2.Semi-Anechoic Chamber Test Setup Diagram



(EUT: 2.4G Flier)

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		
	Field Strength (microvolts/meter)	Measurement Distance (meters)	The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector.
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 Flier (EUT)

Model Number : 22033V2RX
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:	April 29, 2014	Temperature:	25°C
EUT:	2.4G Flier	Humidity:	50%
Model No.:	22033V2RX	Power Supply:	DC 3.7V
Test Mode:	TX 2414.000MHz	Test Engineer:	Pei

30MHz-25GHz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
372.0045	37.31	-15.84	21.47	46.00	-24.53	Vertical
396.2414	42.15	-15.67	26.48	46.00	-19.52	
444.8514	37.45	-14.78	22.67	46.00	-23.33	
348.0274	48.29	-16.31	31.98	46.00	-14.02	Horizontal
372.0045	50.67	-15.84	34.83	46.00	-11.17	
396.2414	52.17	-15.67	36.50	46.00	-9.50	

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:	April 29, 2014	Temperature:	25°C
EUT:	2.4G Flier	Humidity:	50%
Model No.:	22033V2RX	Power Supply:	DC 3.7V
Test Mode:	TX 2447.000MHz	Test Engineer:	Pei

30MHz-25GH

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
396.2414	37.48	-15.67	21.81	46.00	-24.19	Vertical
444.8514	36.08	-14.78	21.30	46.00	-24.70	
550.9479	37.03	-12.82	24.21	46.00	-21.79	
372.0045	50.09	-15.84	34.25	46.00	-11.75	Horizontal
396.2415	51.91	-15.67	36.24	46.00	-9.76	
420.5803	46.71	-15.36	31.35	46.00	-14.65	

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:	April 29, 2014	Temperature:	25°C
EUT:	2.4G Flier	Humidity:	50%
Model No.:	22033V2RX	Power Supply:	DC 3.7V
Test Mode:	TX 2473.000MHz	Test Engineer:	Pei

30MHz-25GH

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
280.0237	38.21	-18.28	19.93	46.00	-26.07	Vertical
372.0045	36.90	-15.84	21.06	46.00	-24.94	
396.2415	37.14	-15.67	21.47	46.00	-24.53	
372.0045	50.03	-15.84	34.19	46.00	-11.81	Horizontal
396.2414	52.22	-15.67	36.55	46.00	-9.45	
420.5803	47.39	-15.36	32.03	46.00	-13.97	

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.

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 Flier (EUT)

Model Number	**:**	22033V2RX
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:	April 29, 2014	Temperature:	25°C
EUT:	2.4G Flier	Humidity:	50%
Model No.:	22033V2RX	Power Supply:	DC 3.7V
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	33.55	43.95	-6.99	26.56	36.96	54.00	74.00	-27.44	-37.04	Vertical
2390.000	32.47	43.40	-6.78	25.69	36.62	54.00	74.00	-28.31	-37.38	Vertical
2310.000	31.97	43.76	-6.99	24.98	36.77	54.00	74.00	-29.02	-37.23	Horizontal
2390.000	32.58	44.28	-6.78	25.80	37.50	54.00	74.00	-28.20	-36.50	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:	April 29, 2014	Temperature:	25°C
EUT:	2.4G Flier	Humidity:	50%
Model No.:	22033V2RX	Power Supply:	DC 3.7V
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	
2483.500	35.25	44.60	-6.54	28.71	38.06	54.00	74.00	-25.29	-35.94	Vertical
2500.000	32.93	43.32	-6.50	26.43	36.82	54.00	74.00	-27.57	-37.18	Vertical
2483.500	33.21	44.74	-6.54	26.67	38.20	54.00	74.00	-27.33	-35.80	Horizontal
2500.000	32.90	44.07	-6.50	26.40	37.57	54.00	74.00	-27.60	-36.43	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:

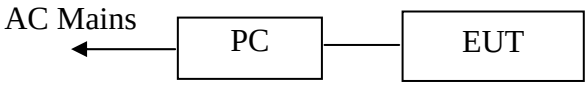
   Result = Reading + Corrected Factor

   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. AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A)

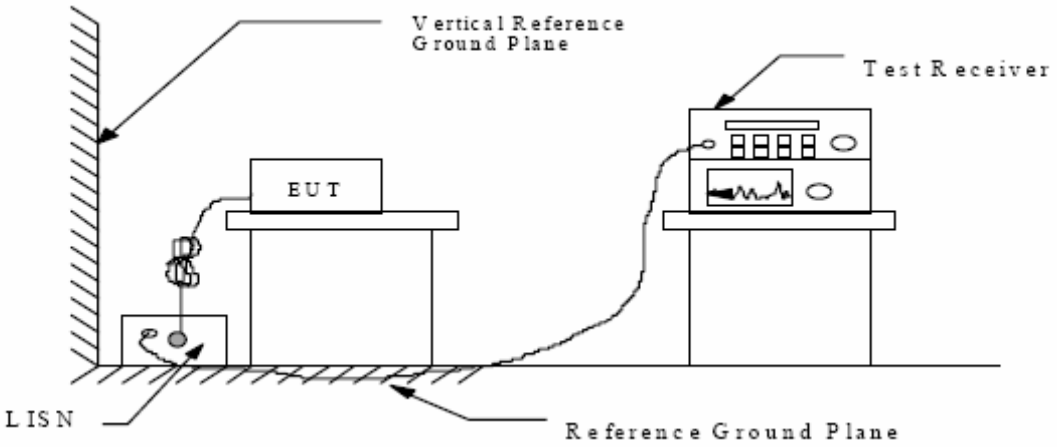
7.1.Block Diagram of Test Setup

7.1.1.Block diagram of connection between the EUT and simulators



(EUT: 2.4G Flier)

7.1.2.Shielding Room Test Setup Diagram



(EUT: 2.4G Flier)

7.2.The Emission Limit

7.2.1.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.

7.3.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.

7.3.1.2.4G Flier (EUT)

Model Number	**:**	22033V2RX
Serial Number	**:**	N/A
Manufacturer	**:**	Interactive Toy Concepts Limited

7.4.Operating Condition of EUT

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

7.4.2.Turn on the power of all equipment.

7.4.3. Let the EUT work in charging mode measure it.

7.5.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.

7.6. Power Line Conducted Emission Measurement Results

PASS.

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

Date of Test:	April 29, 2014	Temperature:	25°C
EUT:	2.4G Flier	Humidity:	50%
Model No.:	22033V2RX	Power Supply:	AC 120/60Hz
Test Mode:	Charging	Test Engineer:	Pei

Frequency (MHz)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector	Line
0.177396	58.60	65	-6.0	QP	Neutral
0.234385	52.10	65	-10.2	QP	
0.289065	45.90	61	-14.7	QP	
0.174759	42.10	55	-12.6	AV	
0.233684	34.80	52	-17.5	AV	
0.290802	29.50	51	-21.0	AV	
0.183889	57.00	64	-7.3	QP	Live
0.235794	49.30	62	-12.9	QP	
0.289932	36.50	61	-24.0	QP	
0.183889	41.80	54	-12.5	AV	
0.235794	28.70	52	-23.5	AV	
0.294307	22.50	50	-27.9	AV	

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

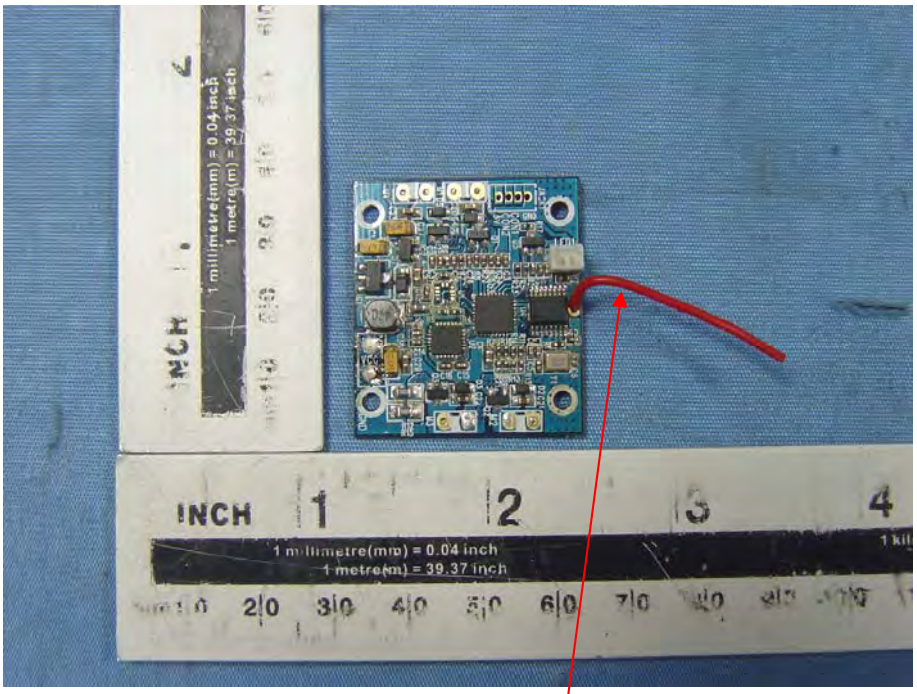
8. ANTENNA REQUIREMENT

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

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.



APPENDIX I
(Test Curves)

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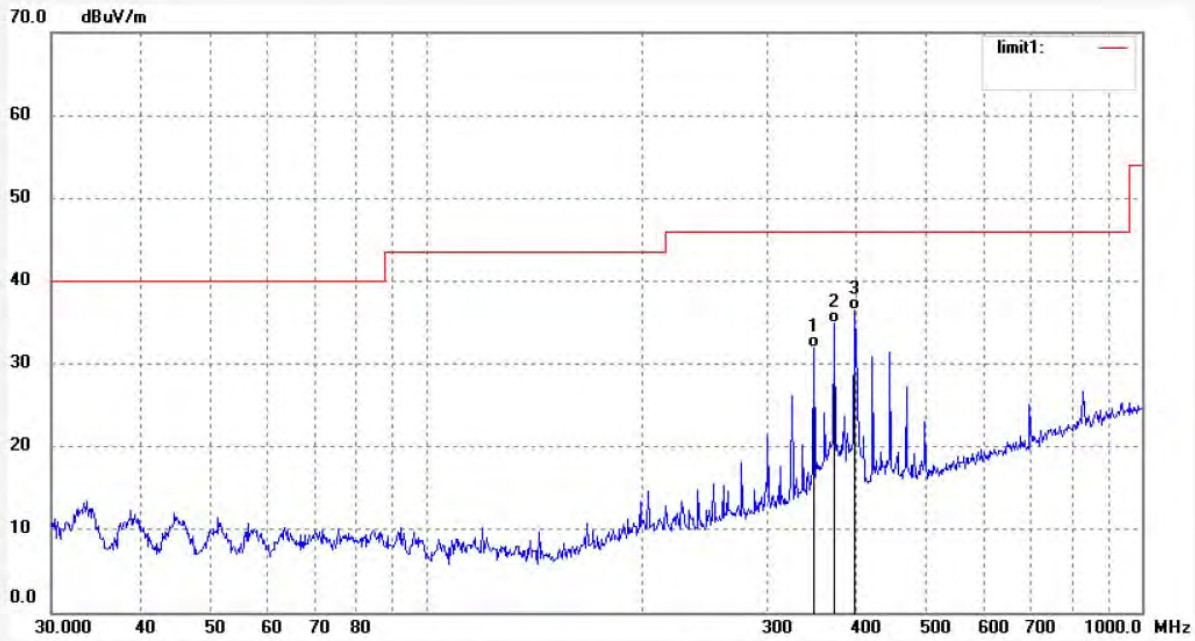
Job No.: star2014 #123	Polarization: Horizontal
Standard: FCC PART 15B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/04/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 14/42/39
EUT: 2.4G Flier	Engineer Signature: STAR
Mode: TX 2414MHz	Distance: 3m
Model: 22033V2RX	
Manufacturer: Interactive Toy Concepts Limited	

Note: Report No.:ATE20140652



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	348.0274	48.29	-16.31	31.98	46.00	-14.02	QP			
2	372.0045	50.67	-15.84	34.83	46.00	-11.17	QP			
3	396.2414	52.17	-15.67	36.50	46.00	-9.50	QP			

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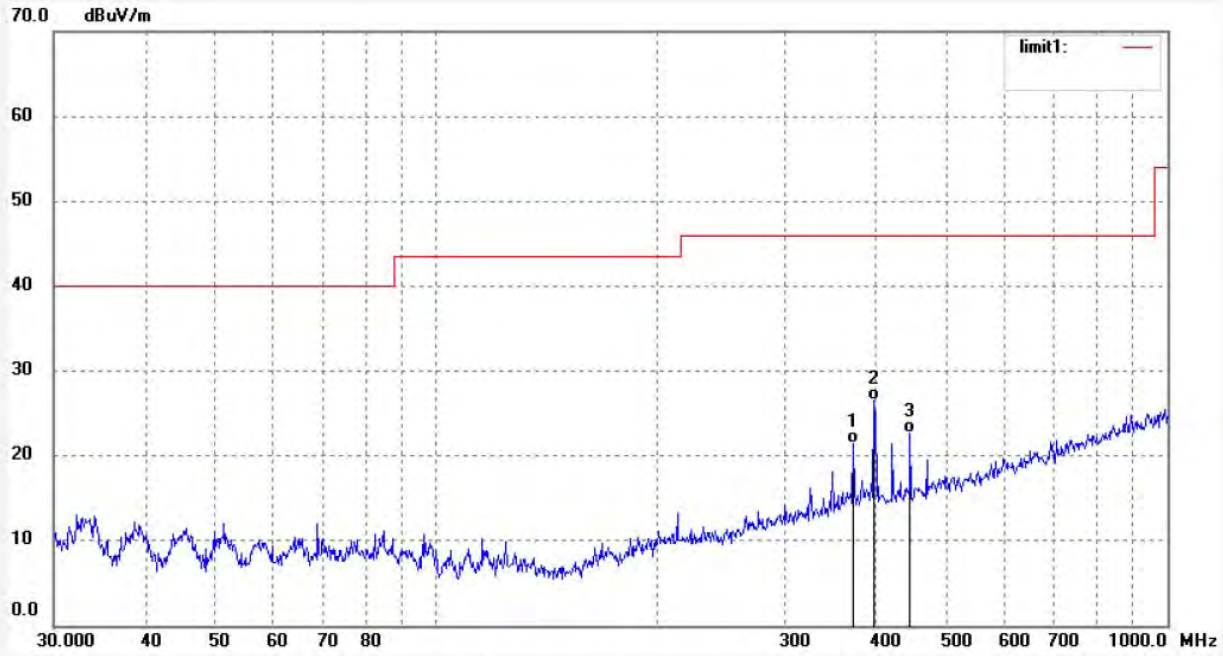
Job No.: star2014 #124	Polarization: Vertical
Standard: FCC PART 15B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/04/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 14/46/39
EUT: 2.4G Flier	Engineer Signature: STAR
Mode: TX 2414MHz	Distance: 3m
Model: 22033V2RX	
Manufacturer: Interactive Toy Concepts Limited	

Note: Report No.:ATE20140652



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	372.0045	37.31	-15.84	21.47	46.00	-24.53	QP			
2	396.2414	42.15	-15.67	26.48	46.00	-19.52	QP			
3	444.8514	37.45	-14.78	22.67	46.00	-23.33	QP			

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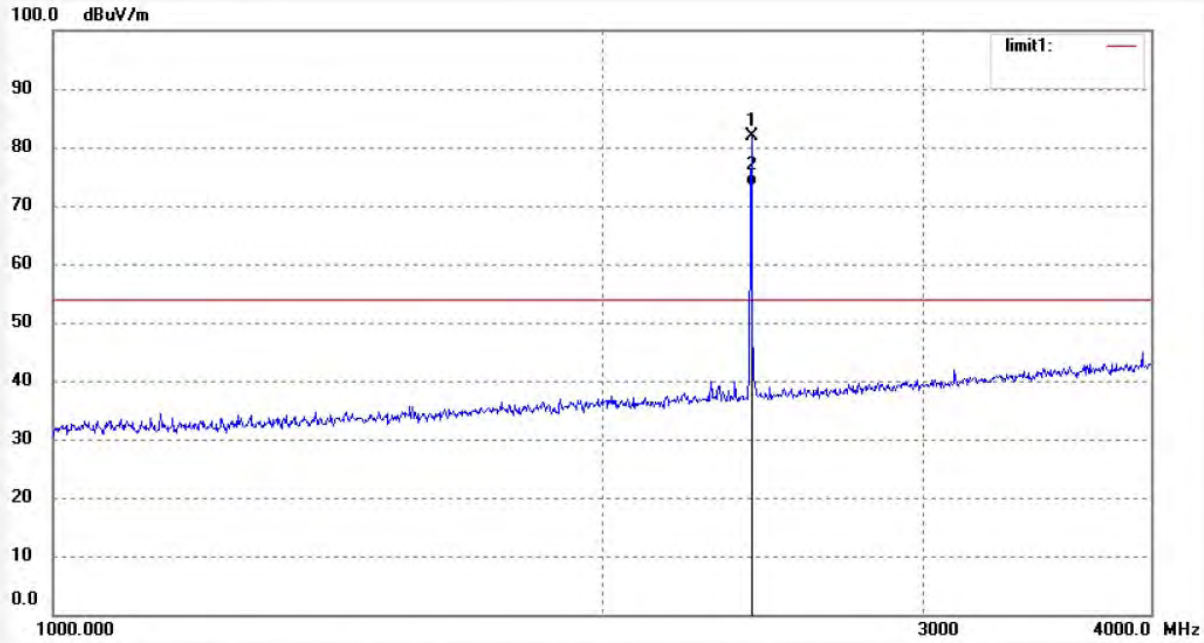
Job No.: star2014 #153
Standard: FCC PART 15B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Flier
Mode: TX 2414MHz
Model: 22033V2RX
Manufacturer: Interactive Toy Concepts Limited

Polarization: Vertical
Power Source: DC 3.7V
Date: 14/04/29/
Time: 17/02/16
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20140652



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	88.68	-6.71	81.97	114.00	-32.03	peak			
2	2414.000	80.11	-6.71	73.40	94.00	-20.60	AVG			

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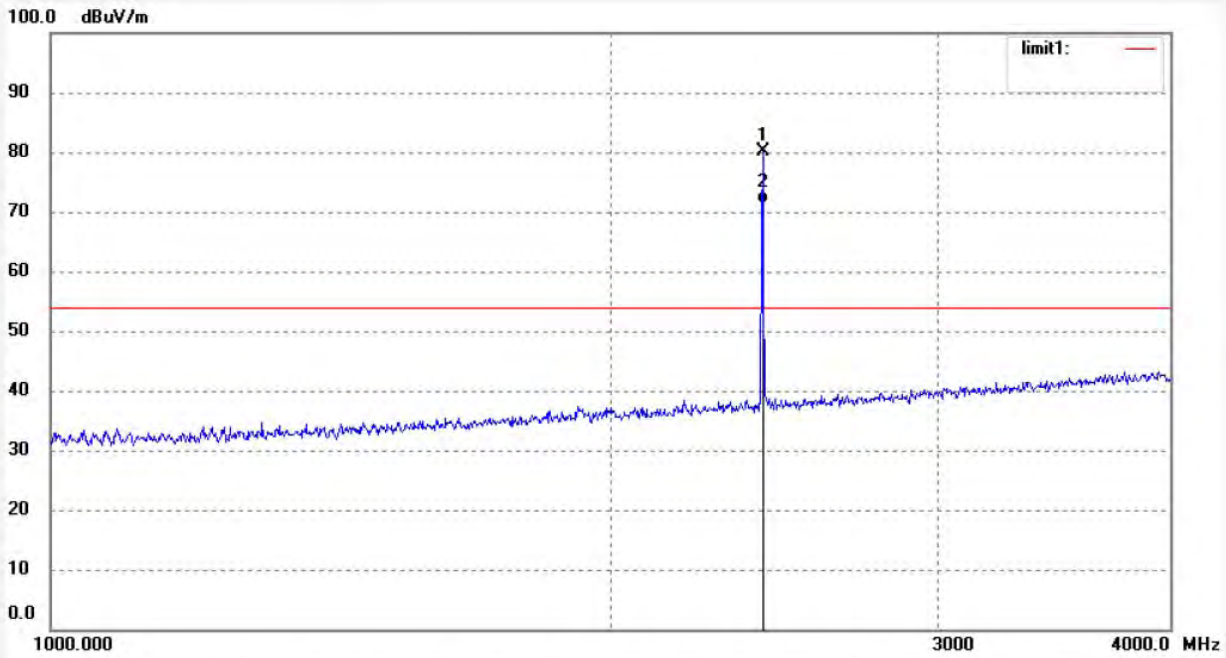
Job No.: star2014 #154	Polarization: Horizontal
Standard: FCC PART 15B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/04/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 17/06/17
EUT: 2.4G Flier	Engineer Signature: STAR
Mode: TX 2414MHz	Distance: 3m
Model: 22033V2RX	
Manufacturer: Interactive Toy Concepts Limited	

Note: Report No.:ATE20140652



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	86.85	-6.71	80.14	114.00	-33.86	peak			
2	2414.000	78.14	-6.71	71.43	94.00	-22.57	AVG			

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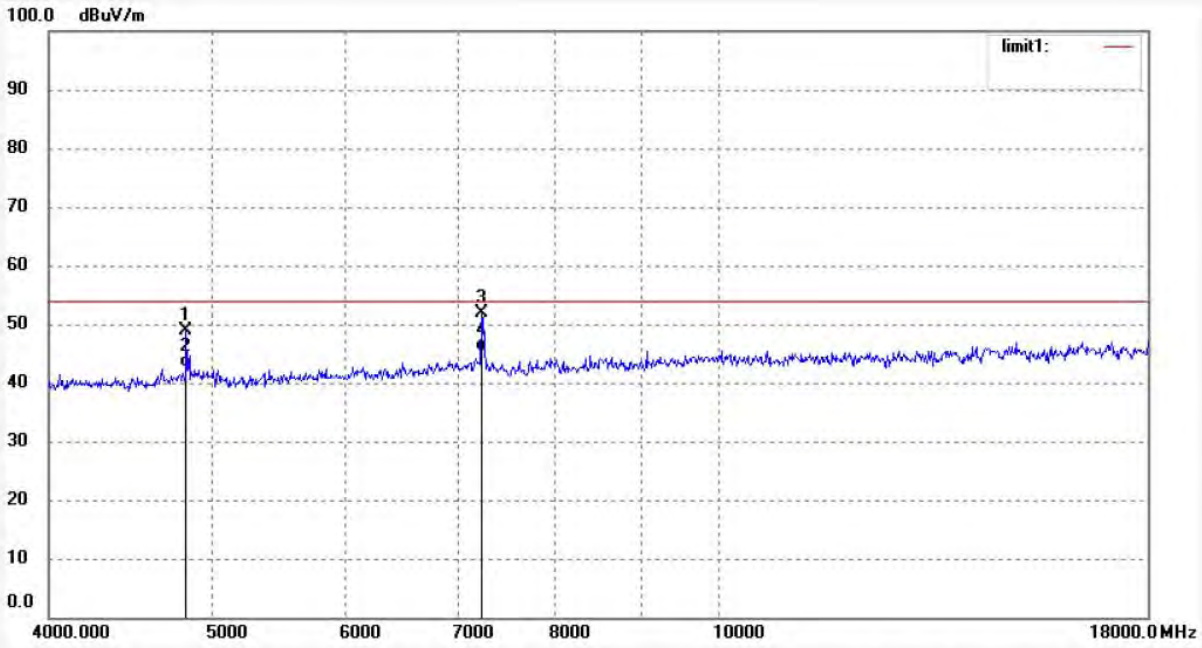
Job No.: star2014 #159
Standard: FCC PART 15B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Flier
Mode: TX 2414MHz
Model: 22033V2RX
Manufacturer: Interactive Toy Concepts Limited

Polarization: Horizontal
Power Source: DC 3.7V
Date: 14/04/29/
Time: 17/25/48
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20140652



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	50.36	-1.51	48.85	74.00	-25.15	peak			
2	4828.000	44.10	-1.51	42.59	54.00	-11.41	AVG			
3	7242.000	50.62	1.32	51.94	74.00	-22.06	peak			
4	7242.000	43.96	1.32	45.28	54.00	-8.72	AVG			

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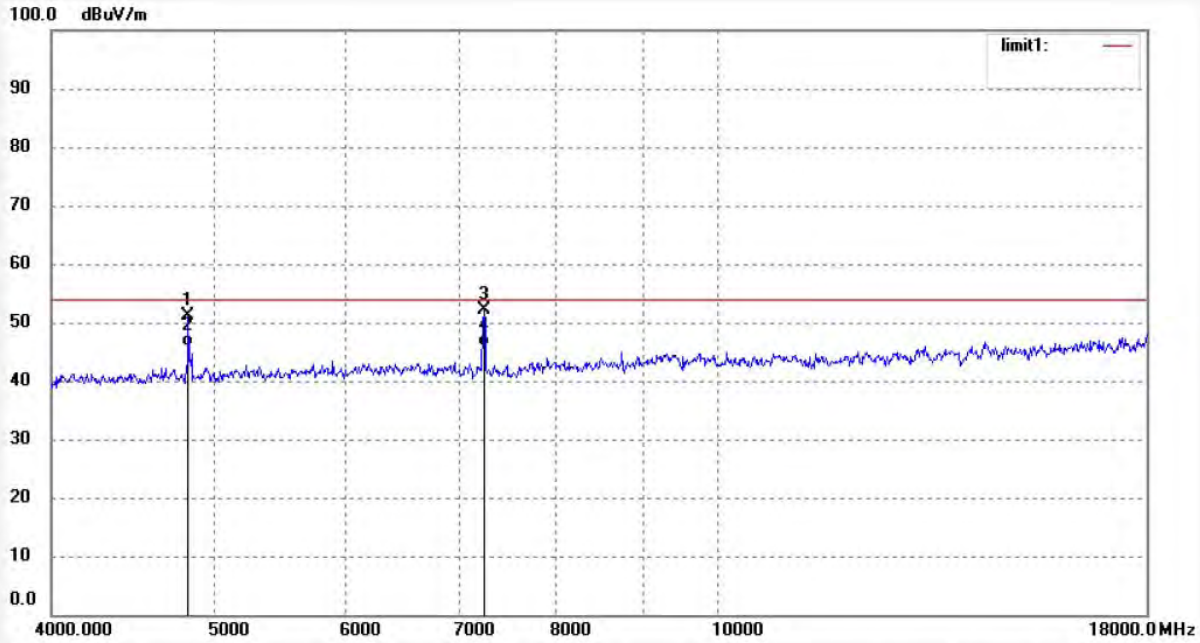
Job No.: star2014 #160
Standard: FCC PART 15B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Flier
Mode: TX 2414MHz
Model: 22033V2RX
Manufacturer: Interactive Toy Concepts Limited

Polarization: Vertical
Power Source: DC 3.7V
Date: 14/04/29/
Time: 17/28/10
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20140652



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	52.67	-1.51	51.16	74.00	-22.84	peak			
2	4828.000	47.36	-1.51	45.85	54.00	-8.15	AVG			
3	7242.000	50.91	1.33	52.24	74.00	-21.76	peak			
4	7242.000	44.51	1.33	45.84	54.00	-8.16	AVG			

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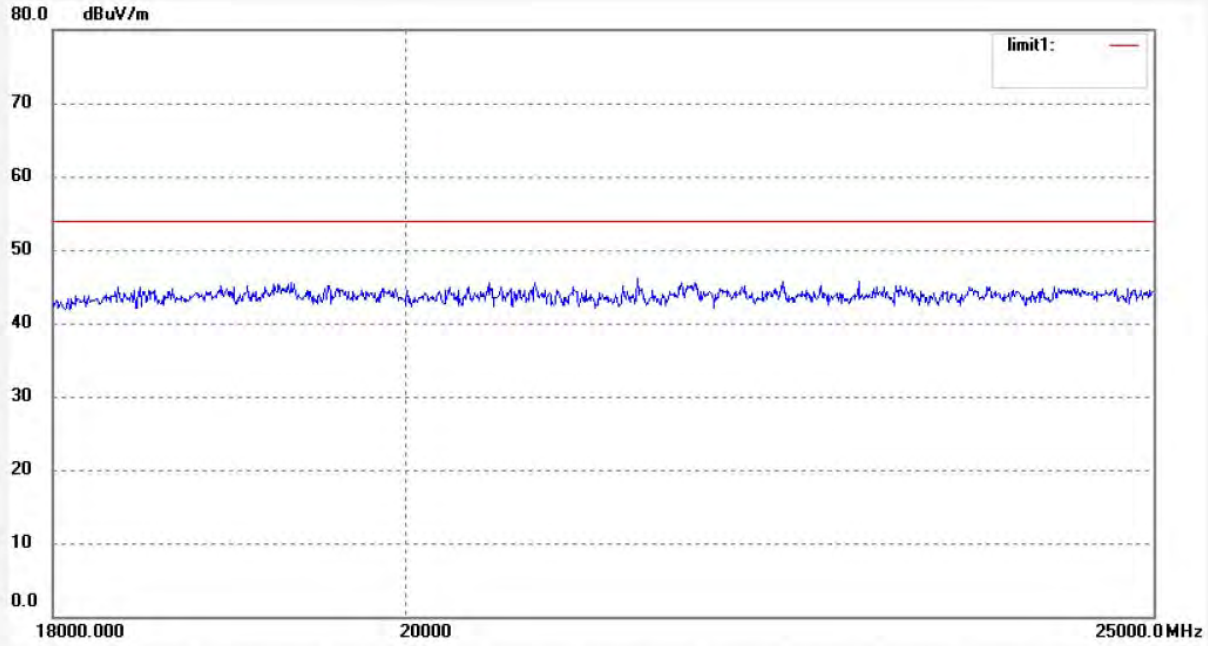
Job No.: star2014 #147	Polarization: Horizontal
Standard: FCC PART 15B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/04/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16/38/25
EUT: 2.4G Flier	Engineer Signature: STAR
Mode: TX 2414MHz	Distance: 3m
Model: 22033V2RX	
Manufacturer: Interactive Toy Concepts Limited	

Note: Report No.:ATE20140652



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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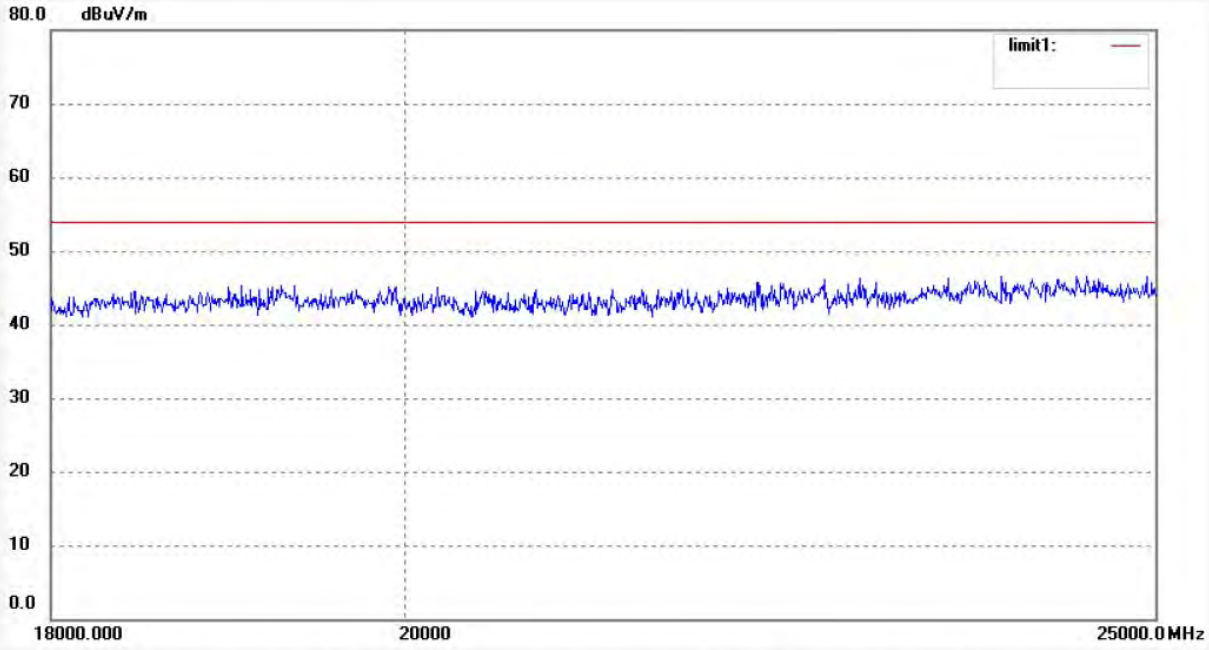
Job No.: star2014 #148	Polarization: Vertical
Standard: FCC PART 15B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/04/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16/42/59
EUT: 2.4G Flier	Engineer Signature: STAR
Mode: TX 2414MHz	Distance: 3m
Model: 22033V2RX	
Manufacturer: Interactive Toy Concepts Limited	

Note: Report No.:ATE20140652



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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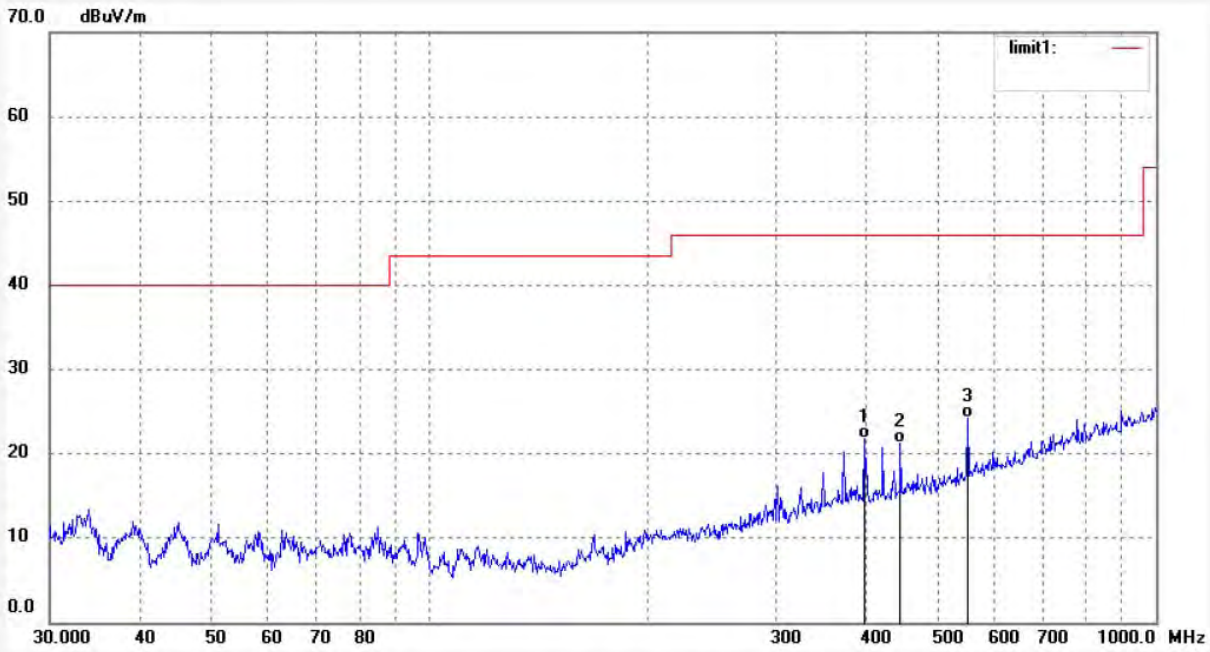
Job No.: star2014 #125	Polarization: Vertical
Standard: FCC PART 15B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/04/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 14/49/41
EUT: 2.4G Flier	Engineer Signature: STAR
Mode: TX 2447MHz	Distance: 3m
Model: 22033V2RX	
Manufacturer: Interactive Toy Concepts Limited	

Note: Report No.:ATE20140652



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	396.2414	37.48	-15.67	21.81	46.00	-24.19	QP			
2	444.8514	36.08	-14.78	21.30	46.00	-24.70	QP			
3	550.9479	37.03	-12.82	24.21	46.00	-21.79	QP			

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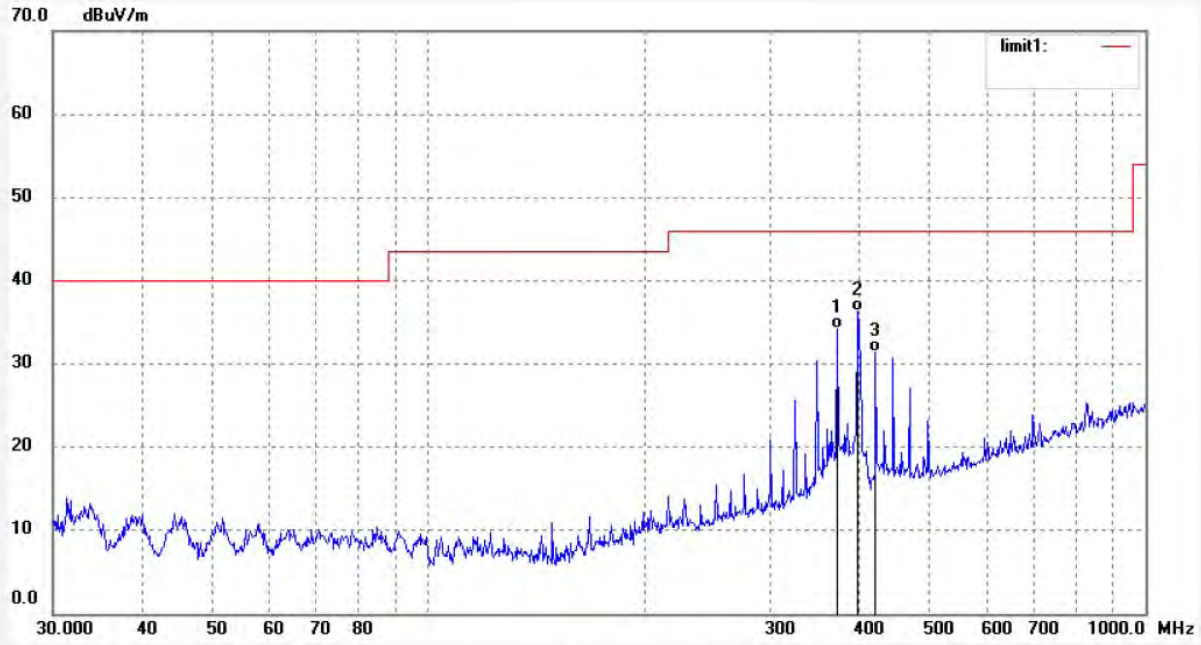
Job No.: star2014 #126
Standard: FCC PART 15B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Flier
Mode: TX 2447MHz
Model: 22033V2RX
Manufacturer: Interactive Toy Concepts Limited

Polarization: Horizontal
Power Source: DC 3.7V
Date: 14/04/29/
Time: 14/53/30
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20140652



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	372.0045	50.09	-15.84	34.25	46.00	-11.75	QP			
2	396.2415	51.91	-15.67	36.24	46.00	-9.76	QP			
3	420.5803	46.71	-15.36	31.35	46.00	-14.65	QP			

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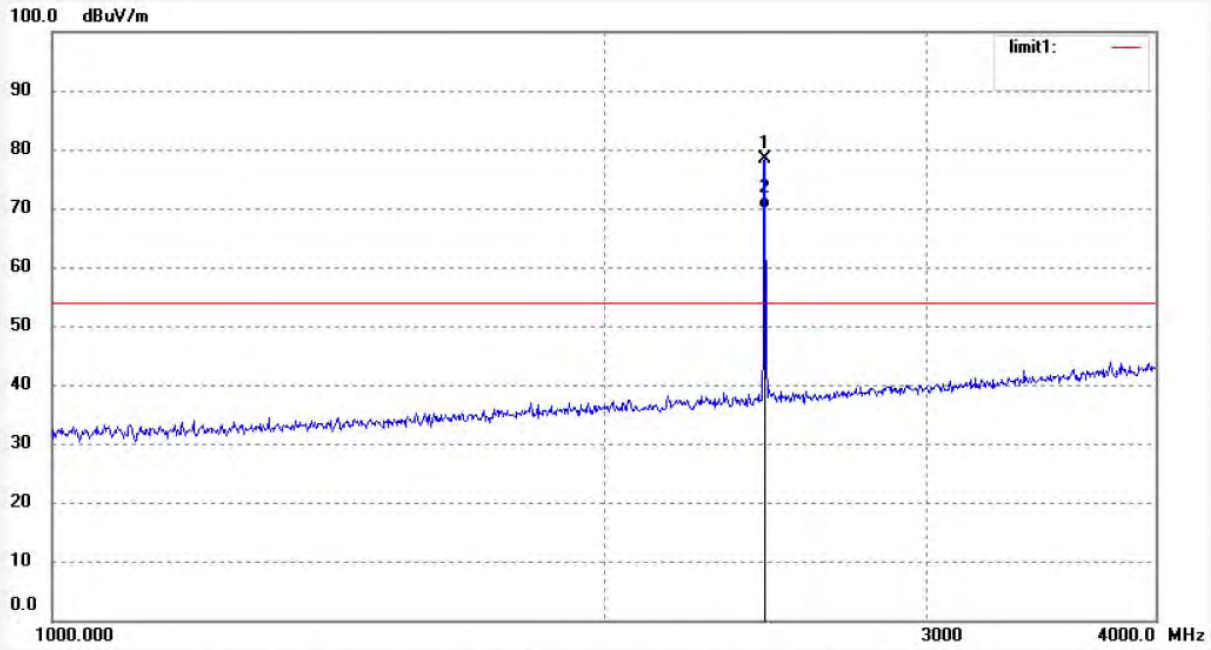
Job No.: star2014 #155
Standard: FCC PART 15B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Flier
Mode: TX 2447MHz
Model: 22033V2RX
Manufacturer: Interactive Toy Concepts Limited

Polarization: Horizontal
Power Source: DC 3.7V
Date: 14/04/29/
Time: 17/10/12
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20140652



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	84.96	-6.63	78.33	114.00	-35.67	peak			
2	2447.000	76.52	-6.63	69.89	94.00	-24.11	AVG			

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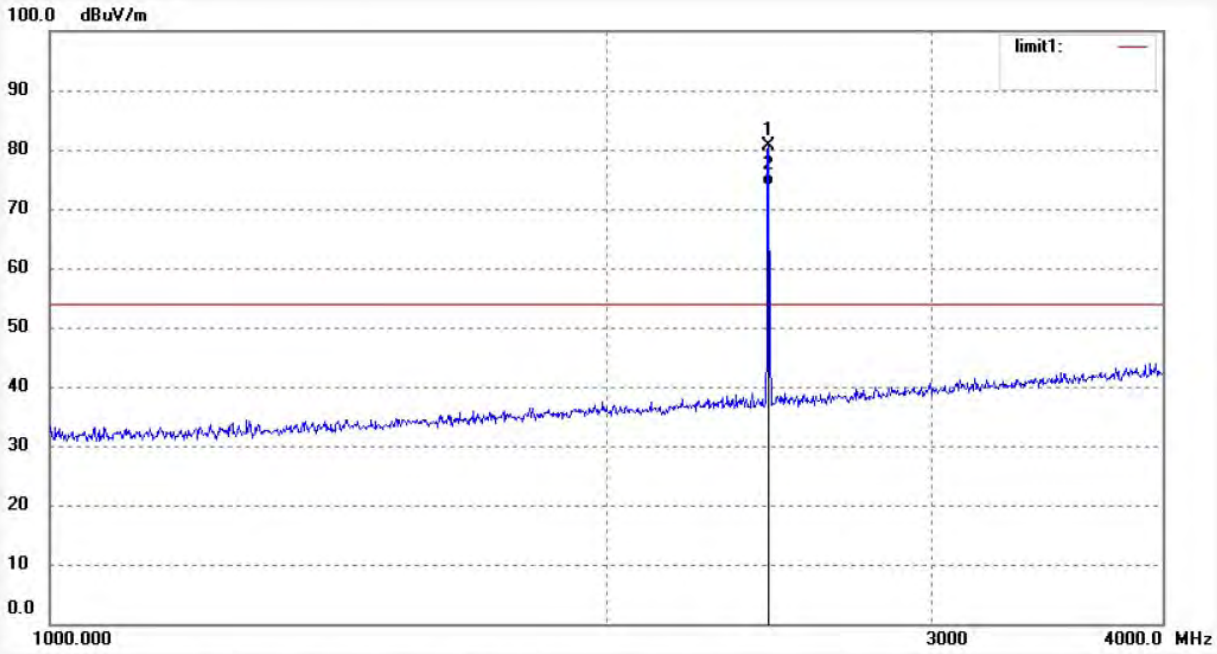
Job No.: star2014 #156
Standard: FCC PART 15B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Flier
Mode: TX 2447MHz
Model: 22033V2RX
Manufacturer: Interactive Toy Concepts Limited

Polarization: Vertical
Power Source: DC 3.7V
Date: 14/04/29/
Time: 17/14/07
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20140652



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	87.37	-6.63	80.74	114.00	-33.26	peak			
2	2447.000	80.41	-6.63	73.78	94.00	-20.22	AVG			

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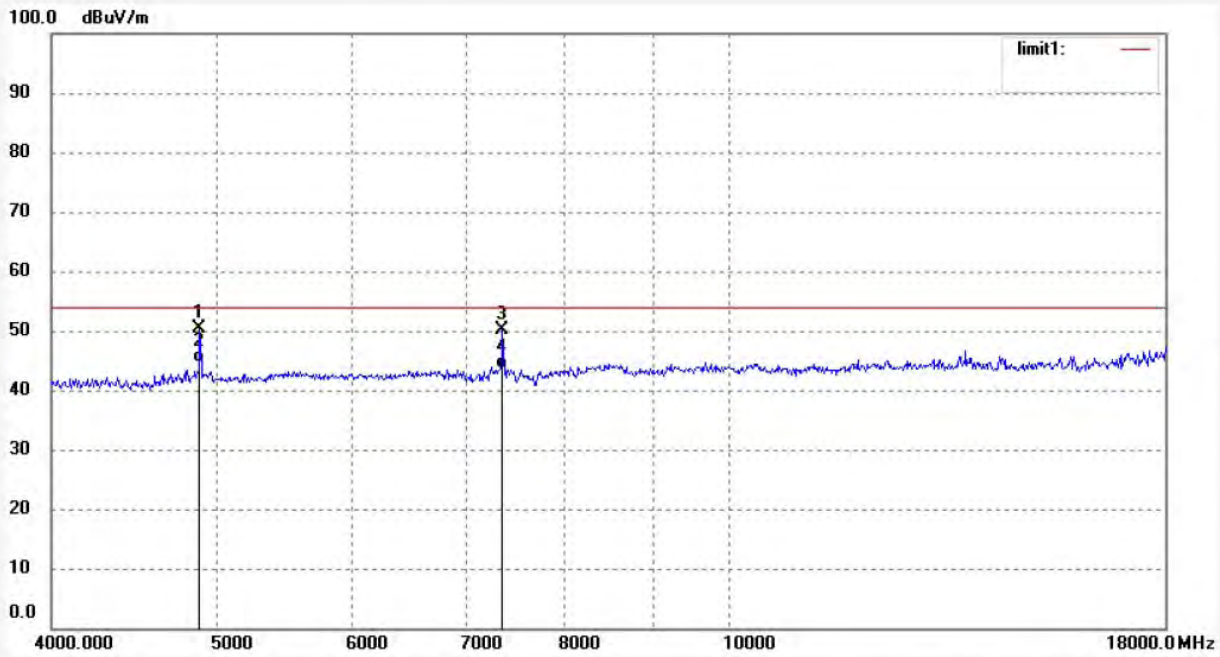
Job No.: star2014 #161
Standard: FCC PART 15B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Flier
Mode: TX 2447MHz
Model: 22033V2RX
Manufacturer: Interactive Toy Concepts Limited

Polarization: Vertical
Power Source: DC 3.7V
Date: 14/04/29/
Time: 17/31/53
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20140652



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	51.65	-1.34	50.31	74.00	-23.69	peak			
2	4894.000	45.90	-1.34	44.56	54.00	-9.44	AVG			
3	7341.000	48.68	1.42	50.10	74.00	-23.90	peak			
4	7341.000	42.20	1.42	43.62	54.00	-10.38	AVG			

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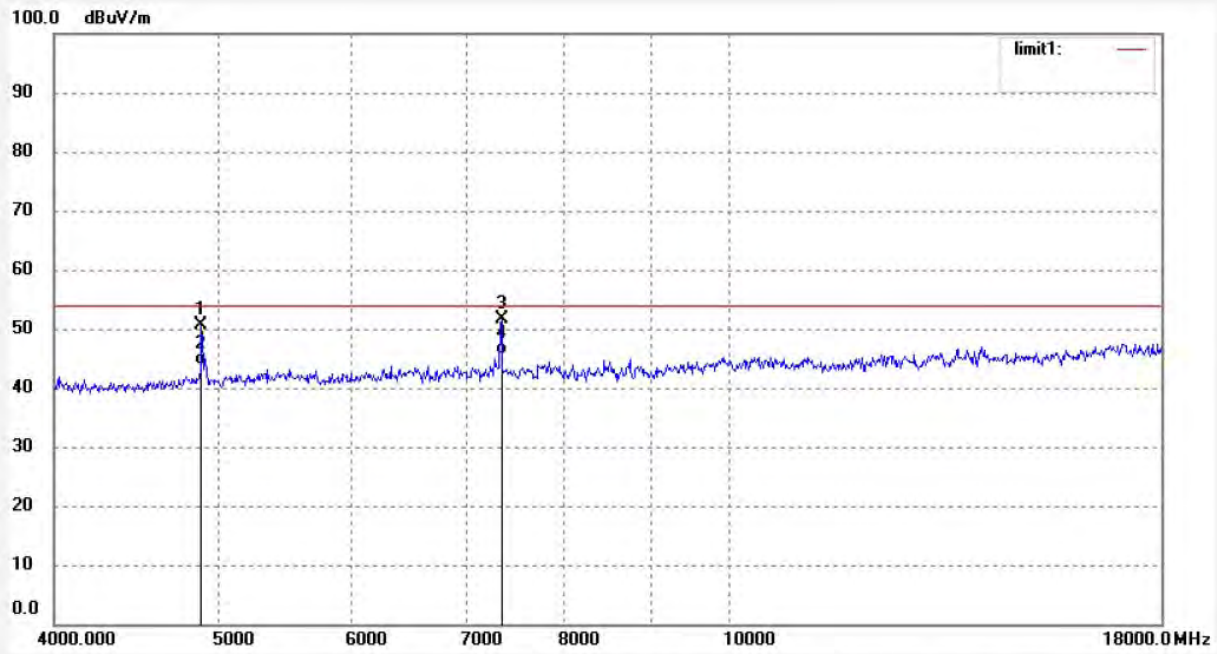
Fax:+86-0755-26503396

Job No.: star2014 #162
Standard: FCC PART 15B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Flier
Mode: TX 2447MHz
Model: 22033V2RX
Manufacturer: Interactive Toy Concepts Limited

Polarization: Horizontal
Power Source: DC 3.7V
Date: 14/04/29/
Time: 17/35/48
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20140652



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	51.89	-1.34	50.55	74.00	-23.45	peak			
2	4894.000	45.22	-1.34	43.88	54.00	-10.12	AVG			
3	7341.000	50.11	1.42	51.53	74.00	-22.47	peak			
4	7341.000	44.25	1.42	45.67	54.00	-8.33	AVG			

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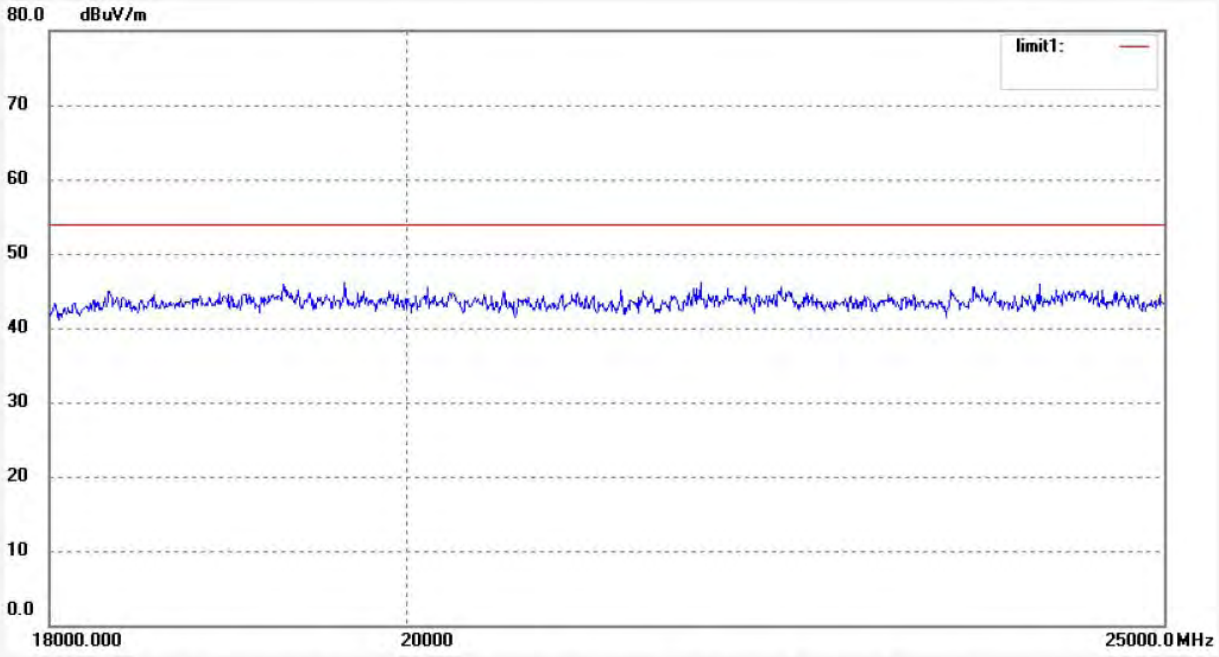
Job No.: star2014 #149	Polarization: Vertical
Standard: FCC PART 15B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/04/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16/46/43
EUT: 2.4G Flier	Engineer Signature: STAR
Mode: TX 2447MHz	Distance: 3m
Model: 22033V2RX	
Manufacturer: Interactive Toy Concepts Limited	

Note: Report No.:ATE20140652



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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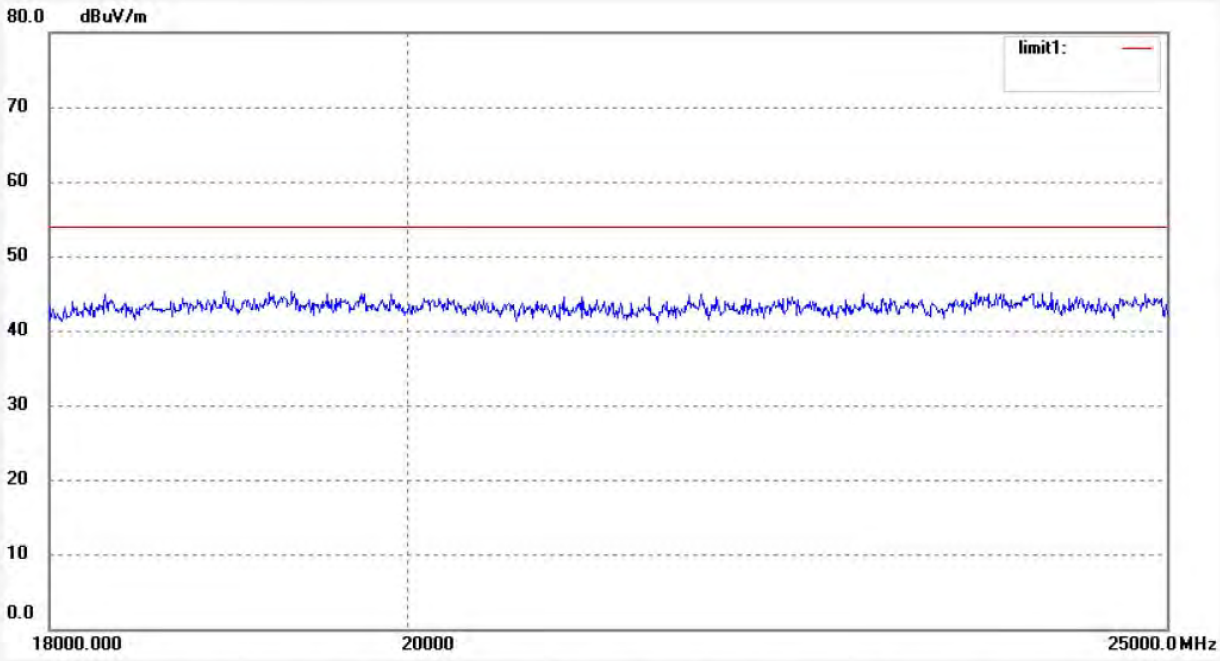
Fax:+86-0755-26503396

Job No.: star2014 #150	Polarization: Horizontal
Standard: FCC PART 15B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/04/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16/50/21
EUT: 2.4G Flier	Engineer Signature: STAR
Mode: TX 2447MHz	Distance: 3m
Model: 22033V2RX	
Manufacturer: Interactive Toy Concepts Limited	

Note: Report No.:ATE20140652



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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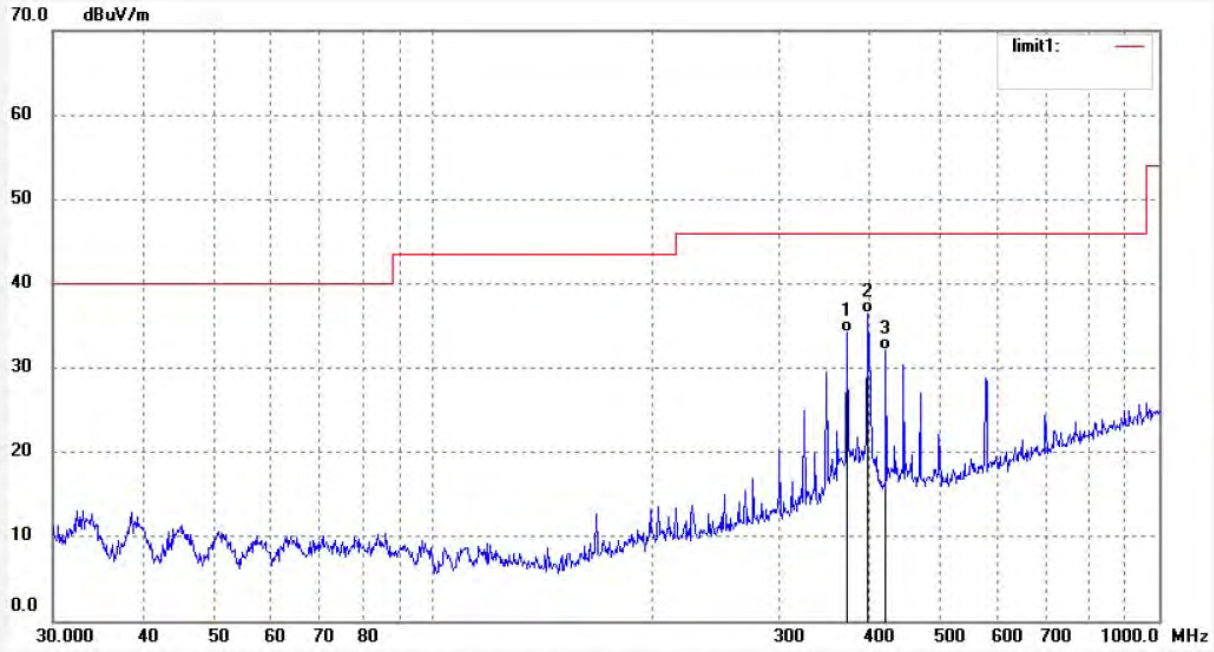
Job No.: star2014 #127
Standard: FCC PART 15B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Flier
Mode: TX 2473MHz
Model: 22033V2RX
Manufacturer: Interactive Toy Concepts Limited

Polarization: Horizontal
Power Source: DC 3.7V
Date: 14/04/29/
Time: 14/57/42
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20140652



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	372.0045	50.03	-15.84	34.19	46.00	-11.81	QP			
2	396.2414	52.22	-15.67	36.55	46.00	-9.45	QP			
3	420.5803	47.39	-15.36	32.03	46.00	-13.97	QP			

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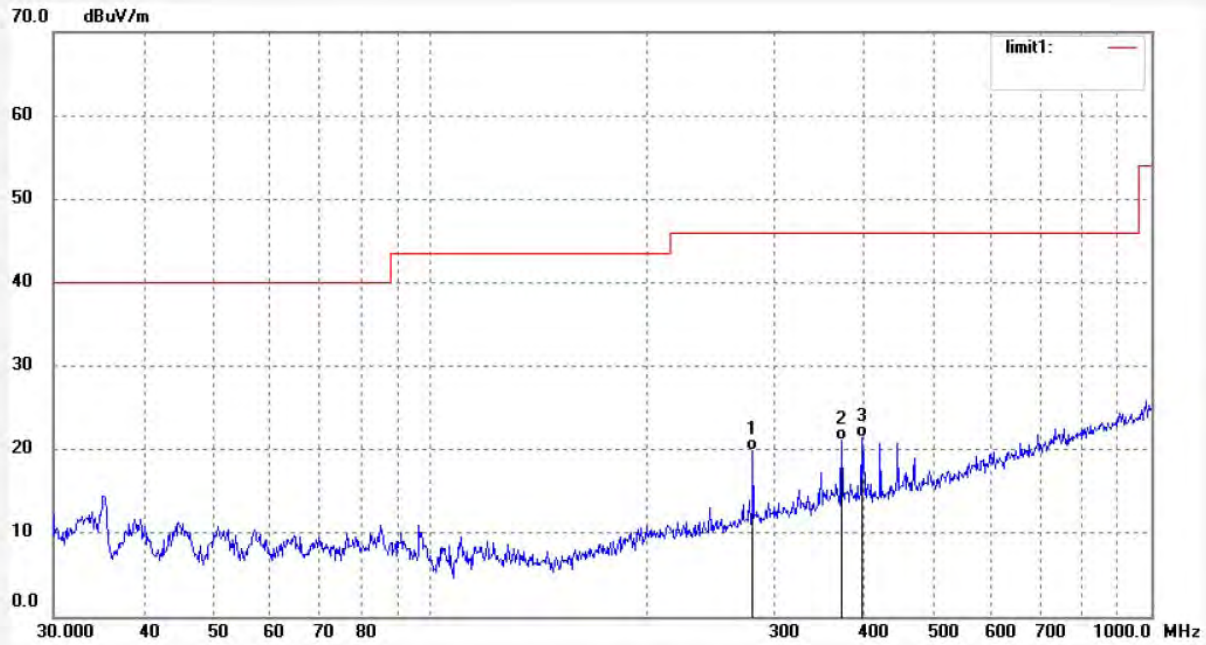
Job No.: star2014 #128
Standard: FCC PART 15B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Flier
Mode: TX 2473MHz
Model: 22033V2RX
Manufacturer: Interactive Toy Concepts Limited

Polarization: Vertical
Power Source: DC 3.7V
Date: 14/04/29/
Time: 15/01/30
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20140652



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	280.0237	38.21	-18.28	19.93	46.00	-26.07	QP			
2	372.0045	36.90	-15.84	21.06	46.00	-24.94	QP			
3	396.2415	37.14	-15.67	21.47	46.00	-24.53	QP			

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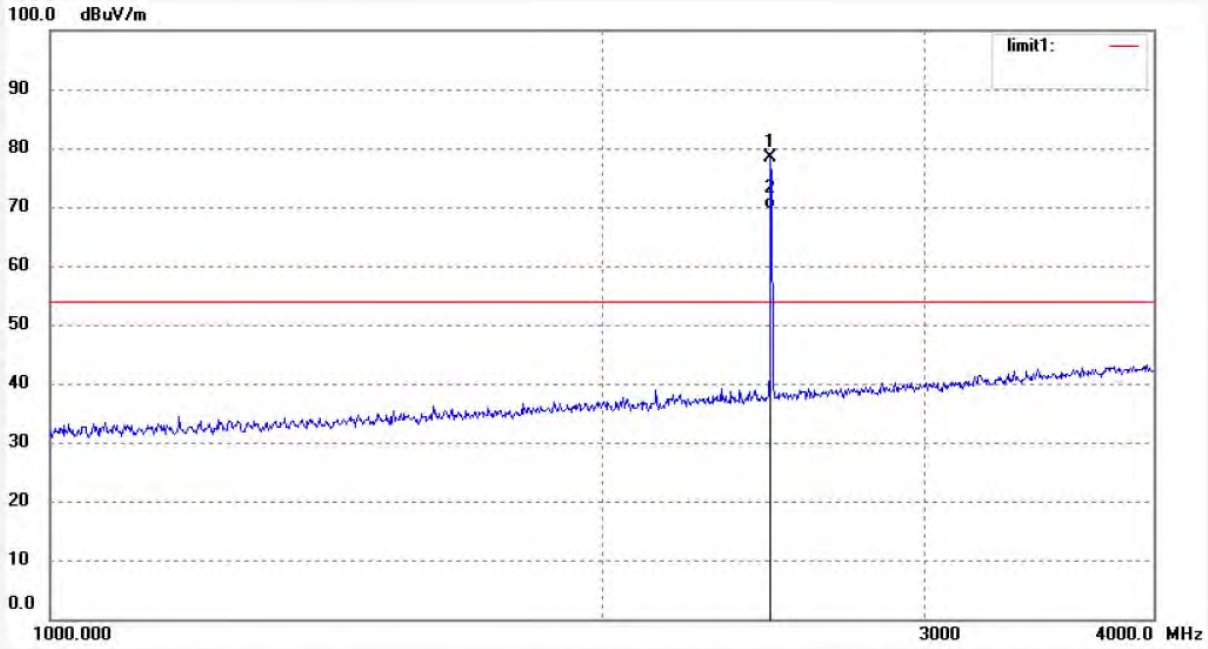
Job No.: star2014 #157
Standard: FCC PART 15B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Flier
Mode: TX 2473MHz
Model: 22033V2RX
Manufacturer: Interactive Toy Concepts Limited

Polarization: Vertical
Power Source: DC 3.7V
Date: 14/04/29/
Time: 17/18/39
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20140652



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	84.92	-6.56	78.36	114.00	-35.64	peak			
2	2473.000	76.22	-6.56	69.66	94.00	-24.34	AVG			

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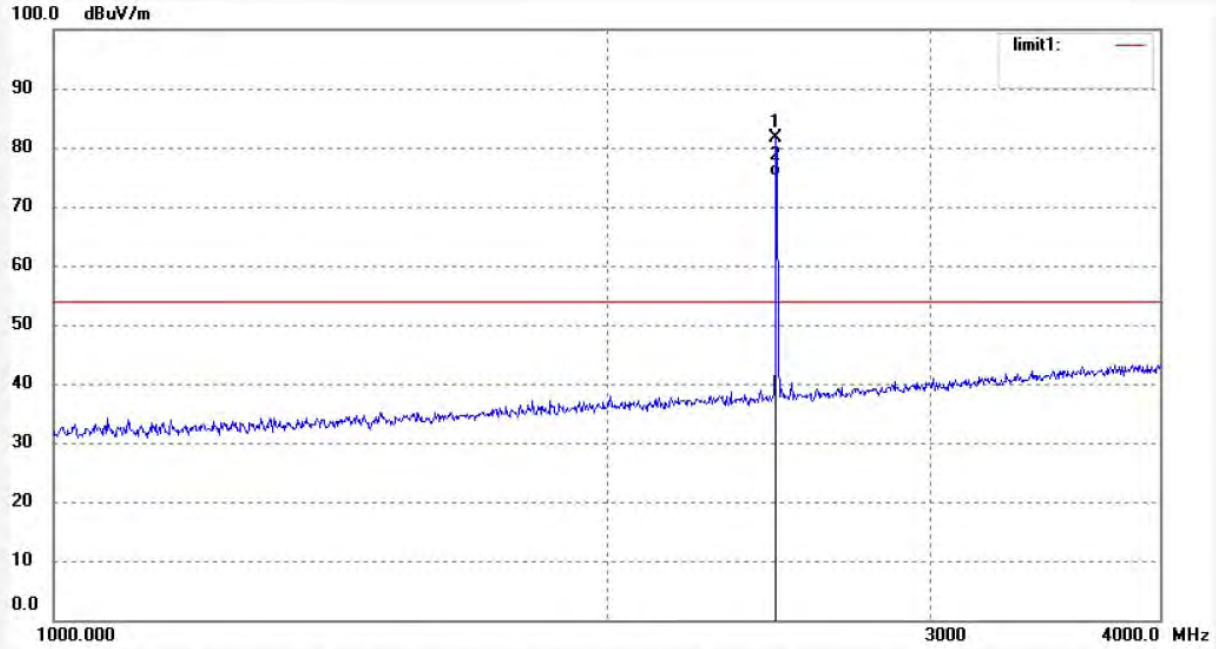
Job No.: star2014 #158	Polarization: Horizontal
Standard: FCC PART 15B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/04/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 17/22/11
EUT: 2.4G Flier	Engineer Signature: STAR
Mode: TX 2473MHz	Distance: 3m
Model: 22033V2RX	
Manufacturer: Interactive Toy Concepts Limited	

Note: Report No.:ATE20140652



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	88.16	-6.56	81.60	114.00	-32.40	peak			
2	2473.000	81.75	-6.56	75.19	94.00	-18.81	AVG			

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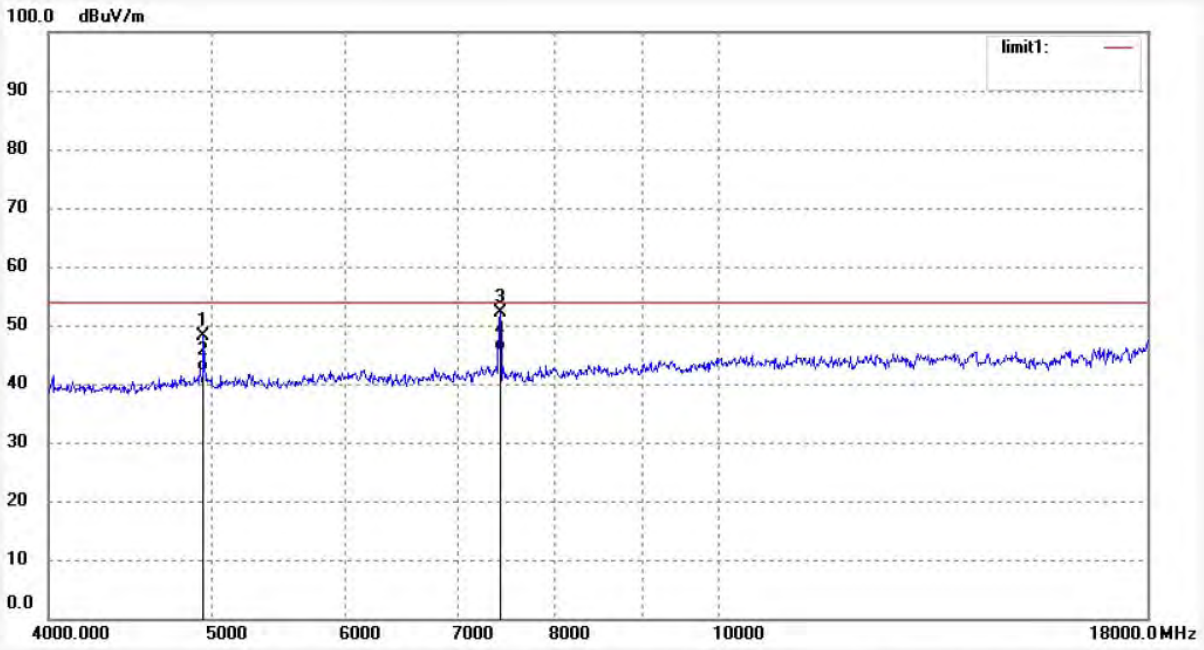
Job No.: star2014 #163	Polarization: Horizontal
Standard: FCC PART 15B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/04/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 17/38/47
EUT: 2.4G Flier	Engineer Signature: STAR
Mode: TX 2473MHz	Distance: 3m
Model: 22033V2RX	
Manufacturer: Interactive Toy Concepts Limited	

Note: Report No.:ATE20140652



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	49.34	-1.15	48.19	74.00	-25.81	peak			
2	4946.000	43.21	-1.15	42.06	54.00	-11.94	AVG			
3	7419.000	50.71	1.49	52.20	74.00	-21.80	peak			
4	7419.000	44.25	1.49	45.74	54.00	-8.26	AVG			

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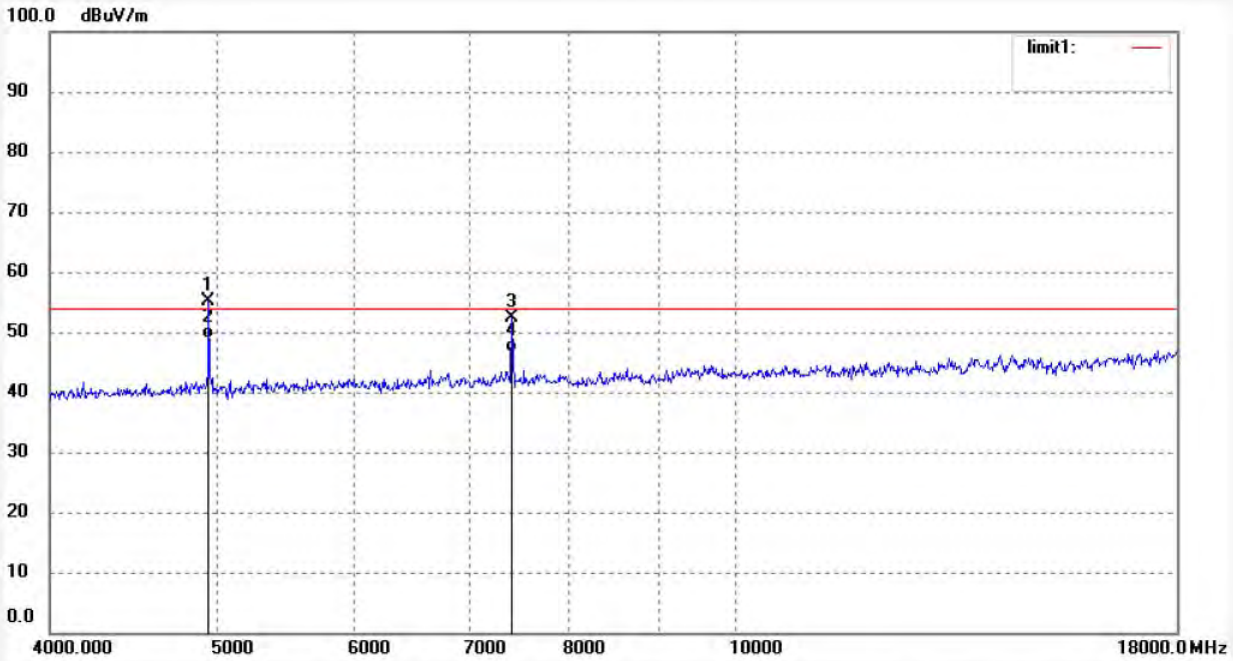
Job No.: star2014 #164
Standard: FCC PART 15B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Flier
Mode: TX 2473MHz
Model: 22033V2RX
Manufacturer: Interactive Toy Concepts Limited

Polarization: Vertical
Power Source: DC 3.7V
Date: 14/04/29/
Time: 17/42/33
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20140652



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	56.37	-1.15	55.22	74.00	-18.78	peak			
2	4946.000	49.99	-1.15	48.84	54.00	-5.16	AVG			
3	7419.000	50.93	1.47	52.40	74.00	-21.60	peak			
4	7419.000	45.10	1.47	46.57	54.00	-7.43	AVG			

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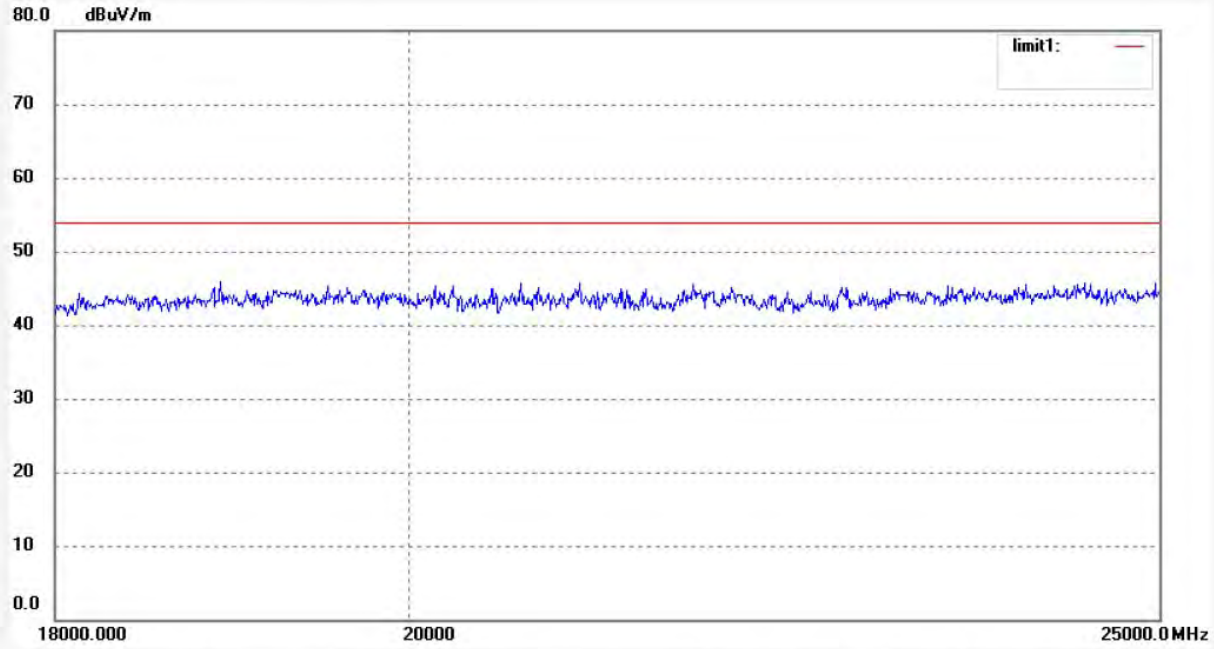
Job No.: star2014 #151	Polarization: Horizontal
Standard: FCC PART 15B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/04/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16/53/06
EUT: 2.4G Flier	Engineer Signature: STAR
Mode: TX 2473MHz	Distance: 3m
Model: 22033V2RX	
Manufacturer: Interactive Toy Concepts Limited	

Note: Report No.:ATE20140652



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

ACCURATE TECHNOLOGY CO., LTD.
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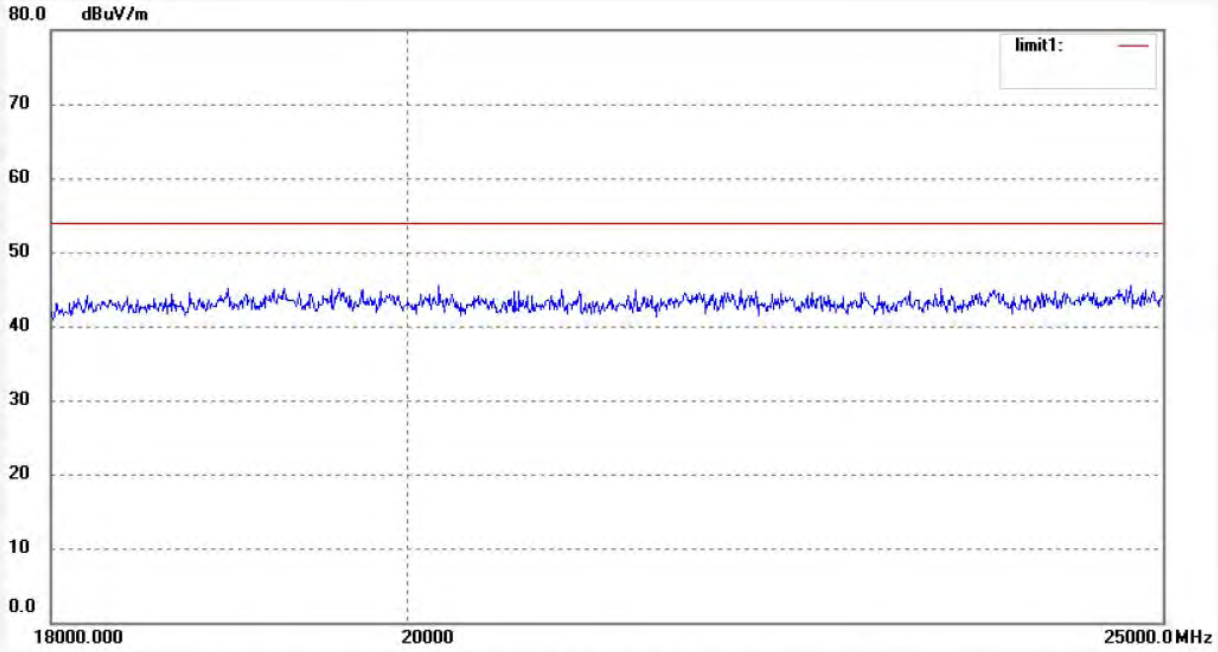
Job No.: star2014 #152	Polarization: Vertical
Standard: FCC PART 15B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/04/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 16/57/44
EUT: 2.4G Flier	Engineer Signature: STAR
Mode: TX 2473MHz	Distance: 3m
Model: 22033V2RX	
Manufacturer: Interactive Toy Concepts Limited	

Note: Report No.:ATE20140652



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

ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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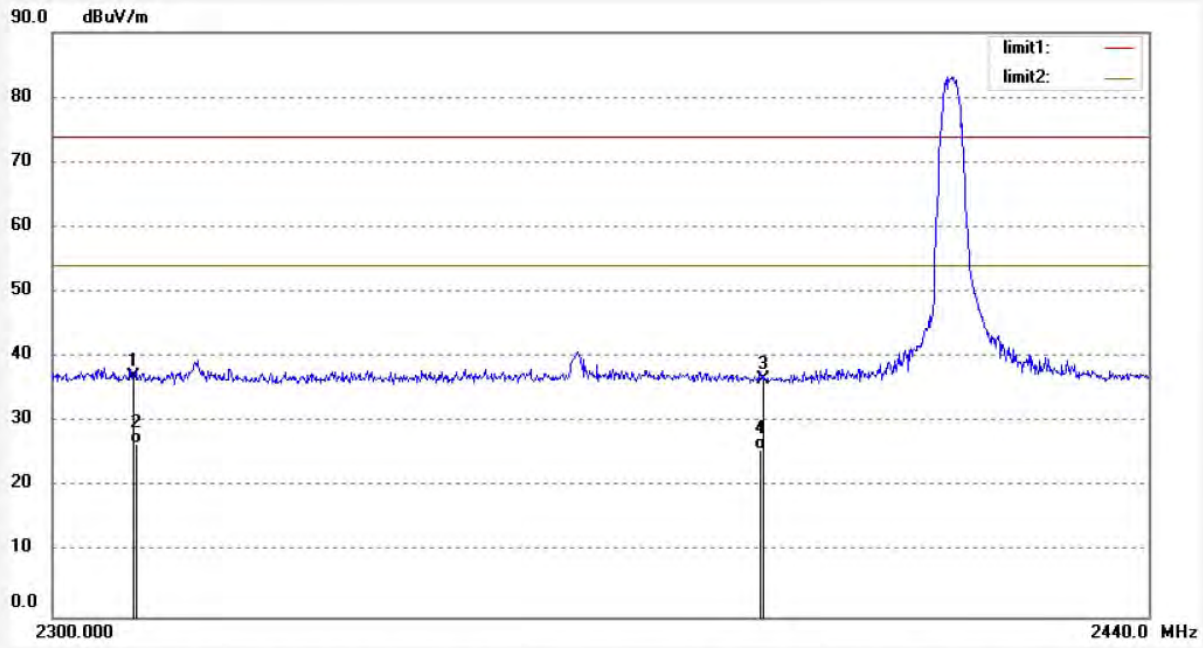
Job No.: star2014 #168
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Flier
Mode: TX 2414MHz
Model: 22033V2RX
Manufacturer: Interactive Toy Concepts Limited

Polarization: Vertical
Power Source: DC 3.7V
Date: 14/04/29/
Time: 17/07/28
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20140652



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	43.95	-6.99	36.96	74.00	-37.04	peak			
2	2310.000	33.55	-6.99	26.56	54.00	-27.44	AVG			
3	2390.000	43.40	-6.78	36.62	74.00	-37.38	peak			
4	2390.000	32.47	-6.78	25.69	54.00	-28.31	AVG			

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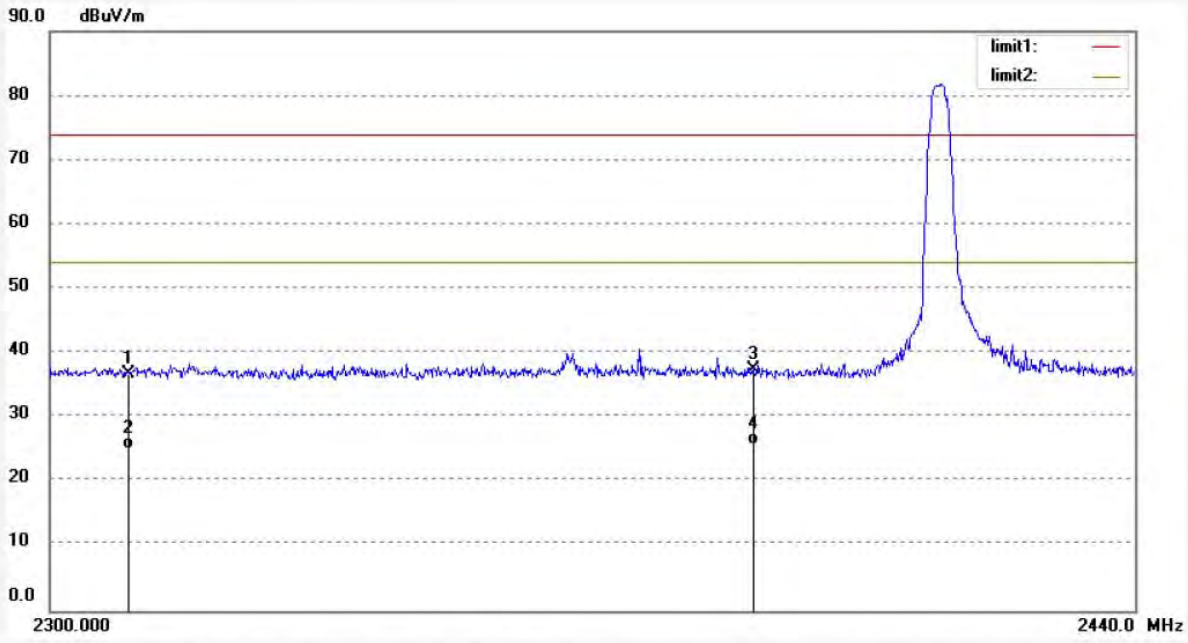
Job No.: star2014 #167	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/04/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 17/06/28
EUT: 2.4G Flier	Engineer Signature: STAR
Mode: TX 2414MHz	Distance: 3m
Model: 22033V2RX	
Manufacturer: Interactive Toy Concepts Limited	

Note: Report No.:ATE20140652



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	43.76	-6.99	36.77	74.00	-37.23	peak			
2	2310.000	31.97	-6.99	24.98	54.00	-29.02	AVG			
3	2390.000	44.28	-6.78	37.50	74.00	-36.50	peak			
4	2390.000	32.58	-6.78	25.80	54.00	-28.20	AVG			

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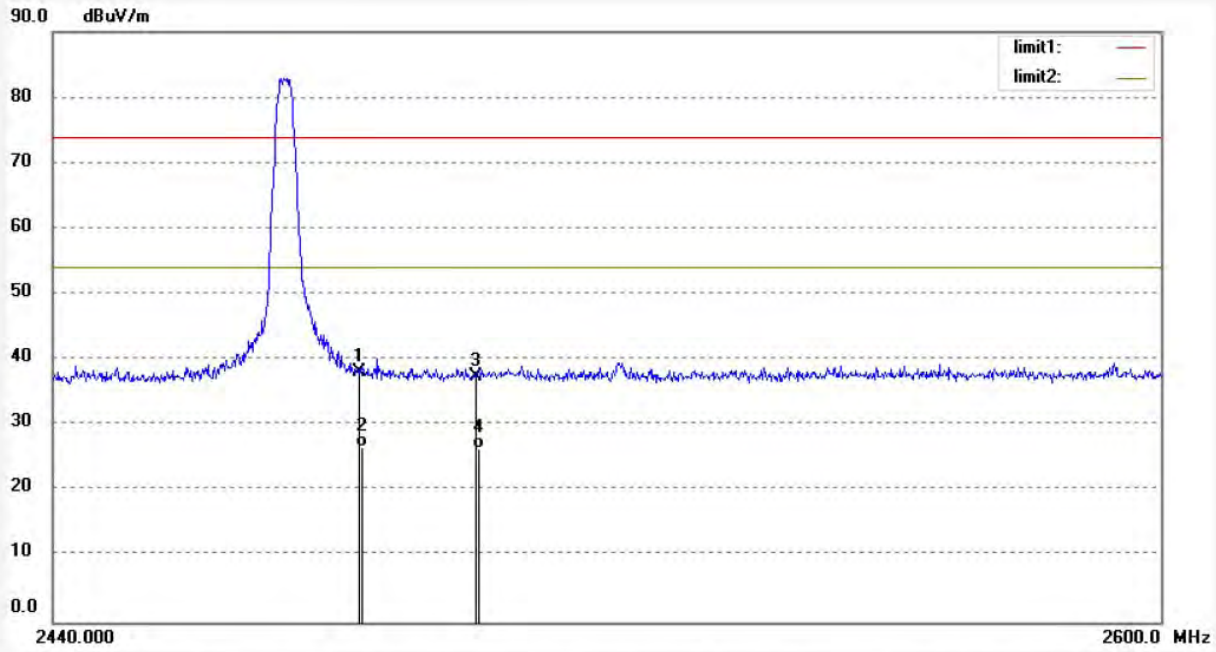
Job No.: star2014 #166	Polarization: Horizontal
Standard: FCC PK	Power Source: DC 3.7V
Test item: Radiation Test	Date: 14/04/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 17/04/54
EUT: 2.4G Flier	Engineer Signature: STAR
Mode: TX 2473MHz	Distance: 3m
Model: 22033V2RX	
Manufacturer: Interactive Toy Concepts Limited	

Note: Report No.:ATE20140652



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	44.74	-6.54	38.20	74.00	-35.80	peak			
2	2483.500	33.21	-6.54	26.67	54.00	-27.33	AVG			
3	2500.000	44.07	-6.50	37.57	74.00	-36.43	peak			
4	2500.000	32.90	-6.50	26.40	54.00	-27.60	AVG			

ACCURATE TECHNOLOGY CO., LTD.
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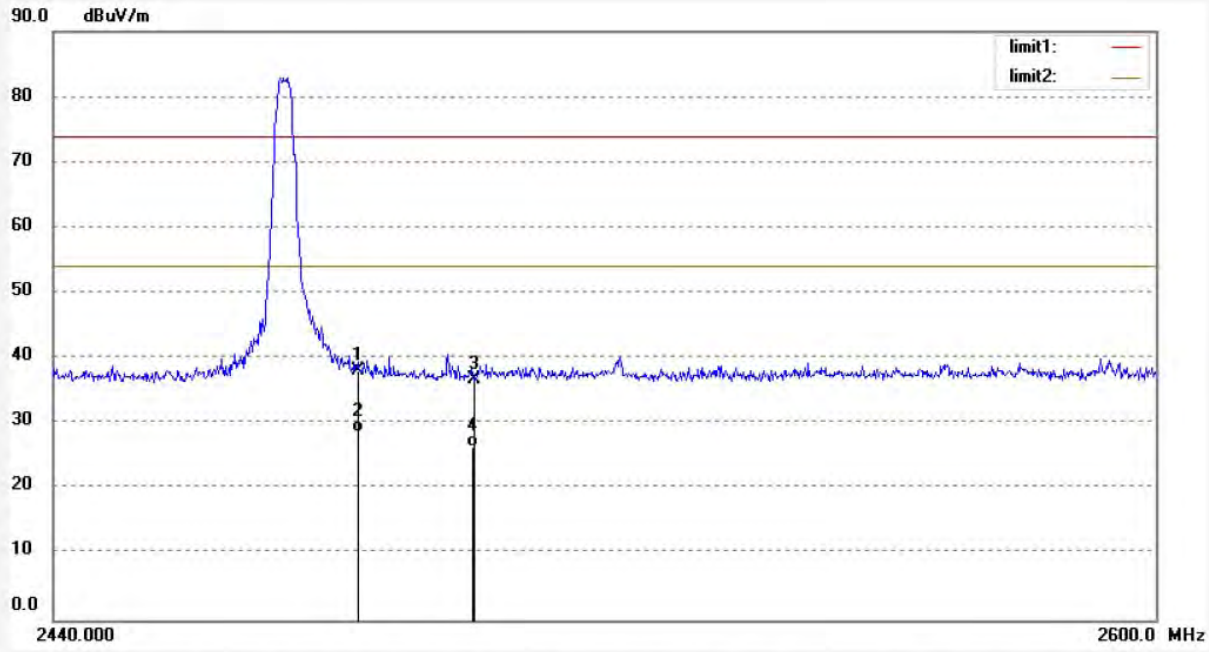
Job No.: star2014 #165
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 2.4G Flier
Mode: TX 2473MHz
Model: 22033V2RX
Manufacturer: Interactive Toy Concepts Limited

Polarization: Vertical
Power Source: DC 3.7V
Date: 14/04/29/
Time: 17/03/45
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20140652



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	44.60	-6.54	38.06	74.00	-35.94	peak			
2	2483.500	35.25	-6.54	28.71	54.00	-25.29	AVG			
3	2500.000	43.32	-6.50	36.82	74.00	-37.18	peak			
4	2500.000	32.93	-6.50	26.43	54.00	-27.57	AVG			

ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART15B

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EUT:                  2.4G Flier     M/N:22033V2RX
Manufacturer:         Interactive Toy Concepts Limited
Operating Condition:  Charging
Test Site:            2#Shielding Room
Operator:             STAR
Test Specification:   N  120V/60Hz
Comment:              Report No.:ATE20140652
Start of Test:        2014-4-29 / 17:16:24
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SCAN TABLE: "V 150K-30MHz fin"

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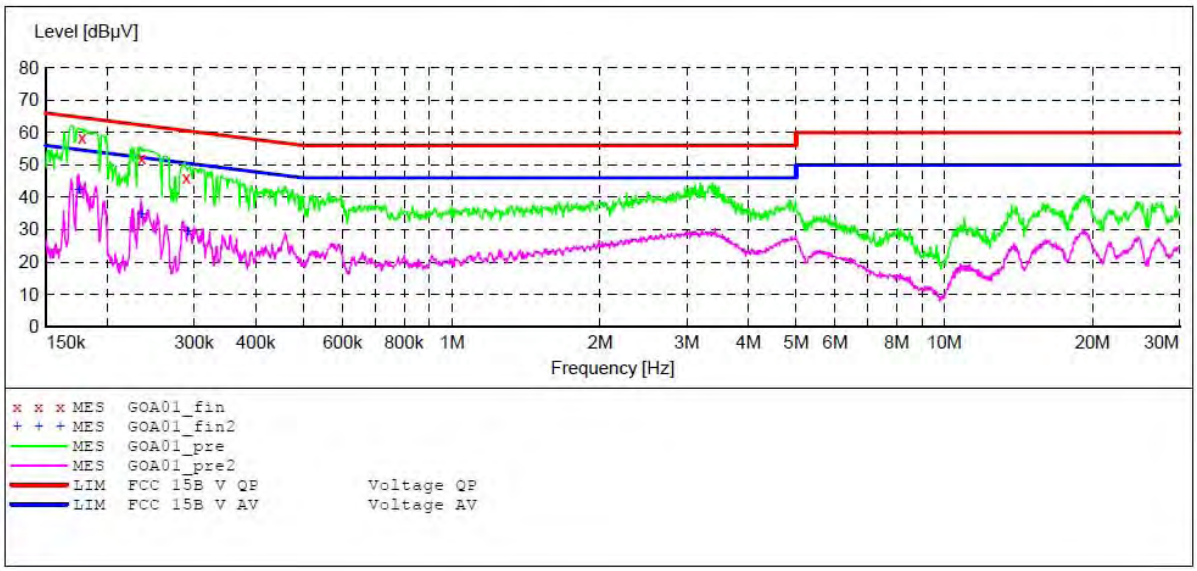
  Short Description:                _SUB_STD_VTERM2 1.70
  Start      Stop       Step       Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width                Time      Bandw.
  150.0 kHz  30.0 MHz   0.4 %      QuasiPeak 1.0 s     9 kHz    LISN(ESH3-Z5)
                                   Average
```



MEASUREMENT RESULT: "GOA01_fin"

```
2014-4-29  17:18
   Frequency     Level  Transd  Limit  Margin  Detector  Line   PE
         MHz      dB¬X      dB   dB¬X      dB

    0.177396     58.60    10.6     65     6.0  QP        N      GND
    0.234385     52.10    11.1     62    10.2  QP        N      GND
    0.289065     45.90    11.5     61    14.7  QP        N      GND
```

MEASUREMENT RESULT: "GOA01_fin2"

```
2014-4-29  17:18
   Frequency     Level  Transd  Limit  Margin  Detector  Line   PE
         MHz      dBµV      dB   dB¬X      dB

    0.174759     42.10    10.6     55    12.6  AV        N      GND
    0.233684     34.80    11.1     52    17.5  AV        N      GND
    0.290802     29.50    11.5     51    21.0  AV        N      GND
```

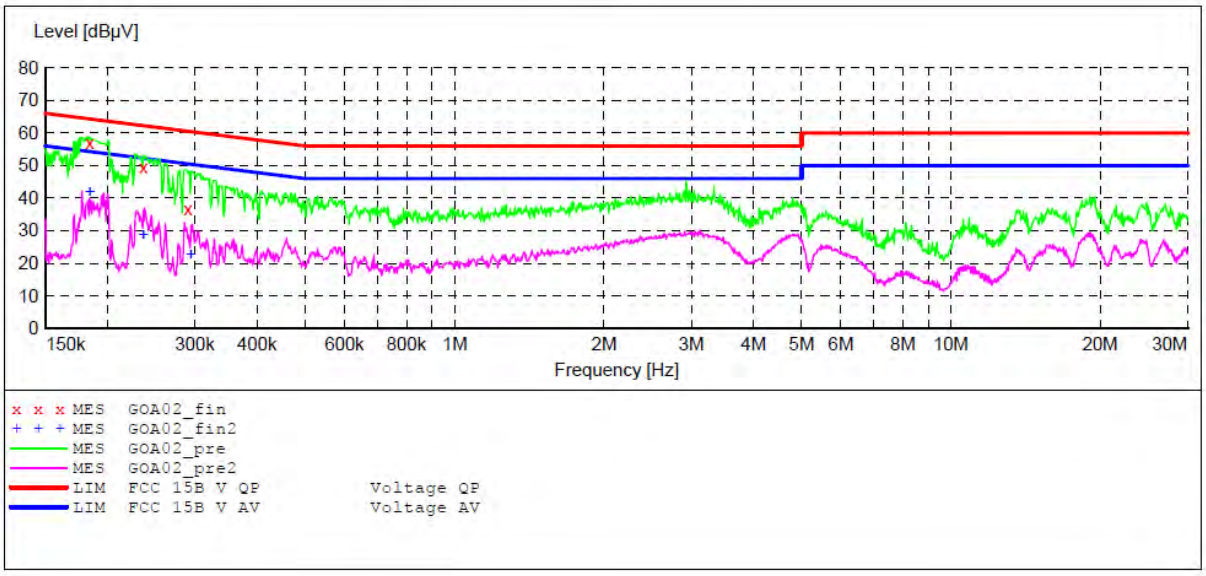
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART15B

```
EUT:                  2.4G Flier     M/N:22033V2RX
Manufacturer:         Interactive Toy Concepts Limited
Operating Condition:  Charging
Test Site:            2#Shielding Room
Operator:             STAR
Test Specification:   L  120V/60Hz
Comment:              Report No.:ATE20140652
Start of Test:        2014-4-29 / 17:18:42
```

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

```
  Short Description:              _SUB_STD_VTERM2 1.70
  Start      Stop       Step      Detector  Meas.     IF       Transducer
  Frequency  Frequency  Width               Time      Bandw.
  150.0 kHz  30.0 MHz   0.4 %     QuasiPeak 1.0 s     9 kHz    LISN(ESH3-Z5)
                                  Average
```



MEASUREMENT RESULT: "GOA02_fin"

2014-4-29 17:20

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.183889	57.00	10.7	64	7.3	QP	L1	GND
0.235794	49.30	11.2	62	12.9	QP	L1	GND
0.289932	36.50	11.5	61	24.0	QP	L1	GND

MEASUREMENT RESULT: "GOA02_fin2"

2014-4-29 17:20

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.183889	41.80	10.7	54	12.5	AV	L1	GND
0.235794	28.70	11.2	52	23.5	AV	L1	GND
0.294307	22.50	11.5	50	27.9	AV	L1	GND