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**Test Report**

<b>Applicant</b>	MTMS (HK) LIMITED
<b>Address</b>	ROOM 1701, 17/F., FO TAN INDUSTRIAL CENTRE, NO. 26-28 AU PUI WAN STREET, FO TAN, N.T., HONG KONG
<b>FCC ID Number</b>	FCC ID: 2AO3LB1314R24G
<b>Tested Brand Name(s)</b>	None
<b>Tested Model Number(s)/Item Number(s)</b>	B1314
<b>Product Description</b>	2.4 GHz Radio Control Vehicle - TX Portion
<b>Operating Frequency</b>	2410.00-2475.00 MHz
<b>Rules/Standards</b>	Part 15.249 of the FCC Rules
<b>Received Date</b>	26th March, 2018
<b>Tested Date</b>	26th March, 2018
<b>Tested by</b>	 Jason Su (Engineer of Shenzhen SEM Test Technology Co. Ltd)
<b>Reviewed by</b>	 Silin Chen (EMC Manager of Shenzhen SEM Test Technology Co. Ltd)
<b>Approved by</b>	 Jandy So (Manager of Shenzhen SEM Test Technology Co. Ltd)
<b>Verified by</b>	Gilbert Lui (Marketing Manager of Gakkiku Compliance Company Limited)
<b>Report Number</b>	GCCL201803260C
<b>Test Results</b>	<input checked="" type="checkbox"/> PASSED <input type="checkbox"/> FAILED

**TABLE OF CONTENTS**

<b>1. GENERAL INFORMATION .....</b>	<b>3</b>
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) .....	3
1.2 TEST STANDARDS .....	4
1.3 TEST METHODOLOGY .....	4
1.4 TEST FACILITY.....	4
1.5 EUT SETUP AND TEST MODE .....	5
1.6 MEASUREMENT UNCERTAINTY.....	5
1.7 TEST EQUIPMENT LIST AND DETAILS.....	6
<b>2. SUMMARY OF TEST RESULTS .....</b>	<b>7</b>
<b>3. ANTENNA REQUIREMENTS.....</b>	<b>8</b>
3.1 STANDARD APPLICABLE.....	8
3.2 TEST RESULT .....	8
<b>4. RADIATED EMISSIONS .....</b>	<b>9</b>
4.1 STANDARD APPLICABLE.....	9
4.2 TEST PROCEDURE .....	9
4.3 CORRECTED AMPLITUDE & MARGIN CALCULATION .....	11
4.4 ENVIRONMENTAL CONDITIONS.....	11
4.5 SUMMARY OF TEST RESULTS/PLOTS .....	11
<b>5. OUT OF BAND EMISSIONS .....</b>	<b>20</b>
5.1 STANDARD APPLICABLE.....	20
5.2 TEST PROCEDURE .....	20
5.3 ENVIRONMENTAL CONDITIONS.....	20
5.4 SUMMARY OF TEST RESULTS/PLOTS .....	20
<b>6. EMISSION BANDWIDTH .....</b>	<b>23</b>
6.1 STANDARD APPLICABLE.....	23
6.2 TEST PROCEDURE .....	23
6.3 ENVIRONMENTAL CONDITIONS.....	23
6.4 SUMMARY OF TEST RESULTS/PLOTS .....	23

## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment Under Test (EUT)

#### Client Information

Applicant:	MTMS (HK) LIMITED
Address of applicant:	ROOM 1701, 17/F., FO TAN INDUSTRIAL CENTRE, NO. 26-28 AU PUI WAN STREET, FO TAN, N.T., HONG KONG
Manufacturer:	MTMS (HK) LIMITED
Address of manufacturer:	ROOM 1701, 17/F., FO TAN INDUSTRIAL CENTRE, NO. 26-28 AU PUI WAN STREET, FO TAN, N.T., HONG KONG

General Description of EUT	
Product Description:	2.4 GHz Radio Control Vehicle - TX Portion
Tested Trade Name:	None
Tested Model Number/ Item Number:	B1314
Adding Model Number(s)/ Item Number(s):	Nil [All Adding Brand Name(s) and Model Number(s)/Item Number(s) are same electrically identical as Tested Brand Name and Model Number/Item Number]
Power Source:	DC 3.7V (1 unit of Built-in DC 3.7V 70mAh Rechargeable Lithium-ion Battery)
Power Adapter Model:	/
<p><i>Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of above adding model number(s)/item number(s) listed in the report is different from above tested model number/item number, but the circuit and the electronic construction do not change, declared by the manufacturer.</i></p>	

Technical Characteristics of EUT	
Frequency Range:	2410.00-2475.00 MHz
Max. Field Strength/ RF Output Power:	87.65dBuV/m
Type of Modulation:	GFSK
Type of Antenna:	Fixed 40mm-long (1.0mm-diameter) black wire antenna
Antenna Gain:	0 dBi
Lowest Internal Clock Frequency of EUT:	16 MHz

## 1.2 Test Standards

The following report is prepared on behalf of the Scientific Toys Ltd in accordance with FCC Part 15, Subpart B, Subpart C, and section 15.107, 15.203, 15.205, 15.207, 15.209 and 15.249 of the FCC Rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.107, 15.203, 15.205, 15.207, 15.209 and 15.249 of the FCC Rules.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission, should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices, and ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

## 1.4 Test Facility

### **Federal Communications Commission (FCC) - Test Firm Registration Number: 125990**

Shenzhen SEM Test Technology Co. Ltd, EMC Laboratory has been notified by National Voluntary Laboratory Accreditation Program that Shenzhen SEM Test Technology Co. Ltd has been accredited as a testing laboratory and fully described in a report filed with the Federal Communications Commission (FCC). All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, 518101, China. The acceptance letter from the FCC is maintained in our files, Designation Number: CN5010 and the Test Firm Registration Number: 125990.

### **Innovation, Science and Economic Development Canada (ISED) - Registration No.: 11464A**

The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology Co. Ltd. has been registered by Certification and Engineering Bureau of Innovation, Science and Economic Development Canada (ISED) for radio equipment testing with Registration No.: 11464A.

## 1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	Lowest Channel	2410.00 MHz
TM2	Near Middle Channel	2442.00 MHz
TM3	Highest Channel	2475.00 MHz

Special Cable List and Details			
Cable Description	Length (m)	Shielded/ Unshielded	With/ Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details				
Description	Manufacturer	Model	Serial Number	
A tact switch and a pairs of 12cm-long (2.0mm-diameter) green wires (unshielded and without core) which connect to U2 and SW1	N/A	N/A	N/A	

## 1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	±0.42dB
Occupied Bandwidth	Conducted	±1.5%
Conducted Spurious Emission	Conducted	±2.17dB
Conducted Emissions	Conducted	±2.88dB
Transmitter Spurious Emissions	Radiated	±5.1dB

## 1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2017-06-12	2018-06-11
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2017-06-12	2018-06-11
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2017-06-12	2018-06-11
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2017-06-12	2018-06-11
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2017-06-12	2018-06-11
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2020-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2020-06-07
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2020-06-07
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2017-06-12	2018-06-11
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2017-06-12	2018-06-11
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2017-06-12	2018-06-11
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2017-08-15	2018-08-14
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2017-08-15	2018-08-14
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2017-06-12	2018-06-11
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2018-03-19	2021-03-18

## 2. SUMMARY OF TEST RESULTS

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FCC Rules	Description of Test Item	Result
Part 15.203	Antenna Requirement	Compliant
Part 15.205	Restricted Band of Operation	Compliant
Part 15.107(a)/15.207(a)	Conducted Emission	N/A*
Part 15.209(a)(f)	Radiated Spurious Emissions	Compliant
Part 15.249(a)	Field Strength of Emissions	Compliant
Part 15.249(d)	Out of Band Emission	Compliant
Part 15.215 (c)	Emission Bandwidth	Compliant

\*Remark:

The AC Line Conducted Emissions testing is exempted because it is powered solely by batteries. Thus, the AC Line Conducted Emissions testing is not applicable.

### **3. Antenna Requirements**

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#### **3.1 Standard Applicable**

According to FCC Part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### **3.2 Test Result**

This product has a fixed 40mm-long (1.0mm-diameter) black wire antenna, fulfill the requirement of this section.

## 4. Radiated Emissions

### 4.1 Standard Applicable

According to FCC Part 15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of Harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

(d) Emissions 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 §15.209, whichever is the lesser attenuation.

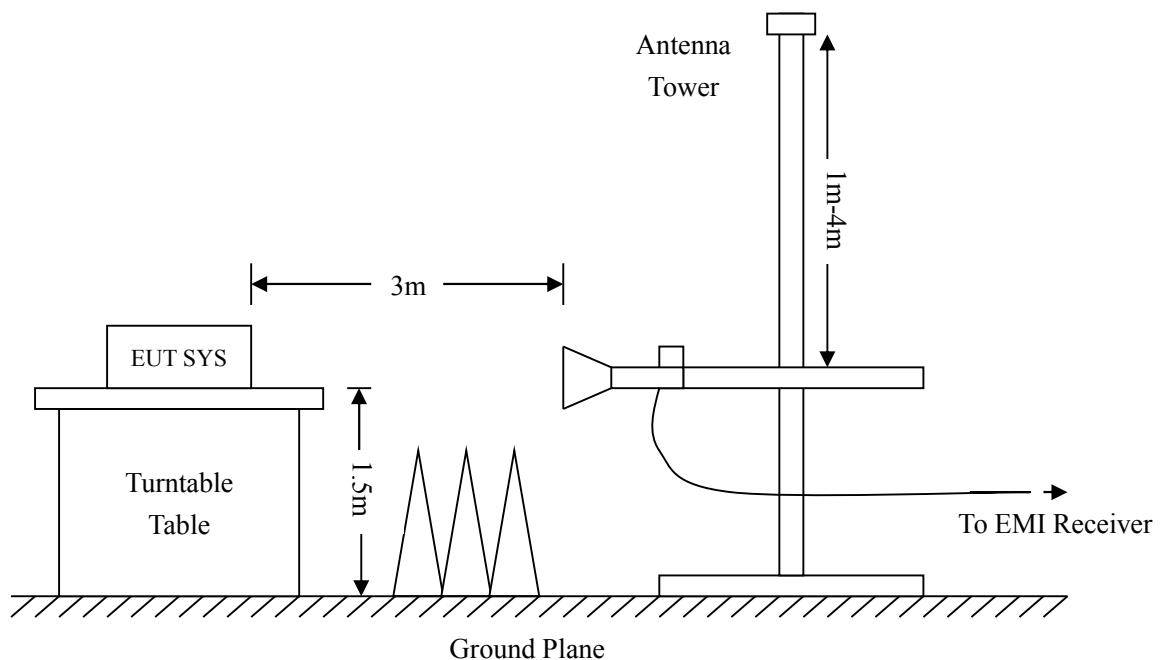
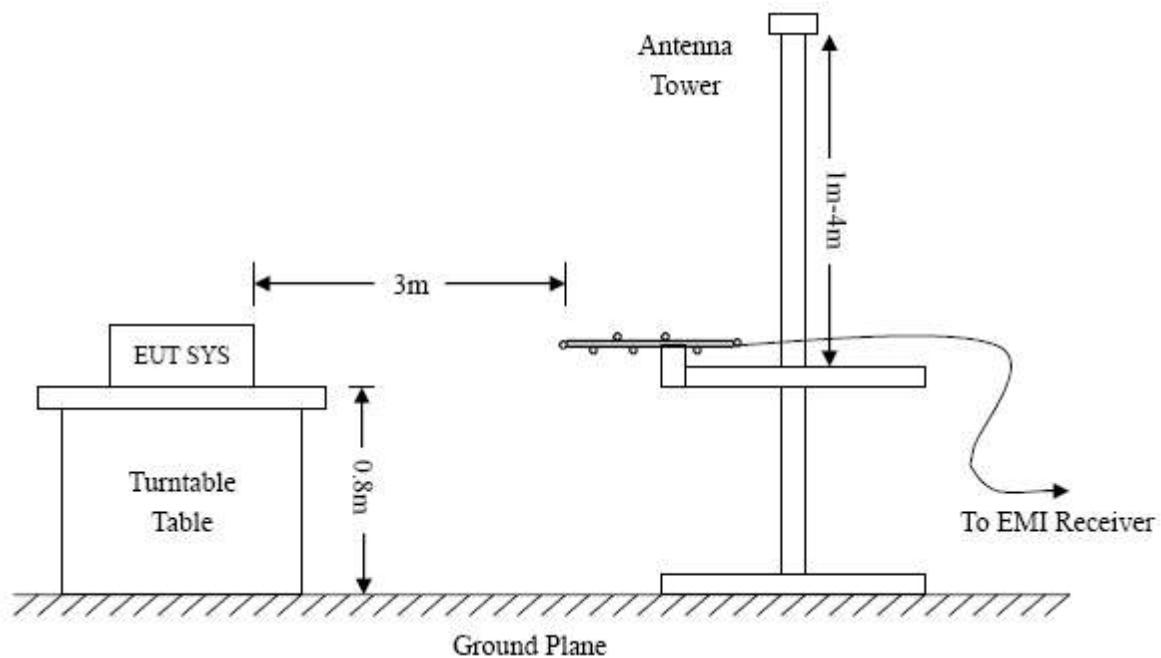
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

### 4.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205, 15.249(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.



Frequency: 9kHz-30MHz

RBW = 10kHz

VBW = 30kHz

Sweep time = Auto

Trace = Max hold

Detector function = Peak

Frequency: 30MHz-1GHz

RBW = 120kHz

VBW = 300kHz

Sweep time = Auto

Trace = Max hold

Detector function = Peak, QP

Frequency: Above 1GHz

RBW = 1MHz

VBW = 3MHz(Peak), 10Hz(AV)

Sweep time = Auto

Trace = Max hold

Detector function = Peak, AV

### 4.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB $\mu$ V means the emission is 6dB $\mu$ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15C Limit}$$

### 4.4 Environmental Conditions

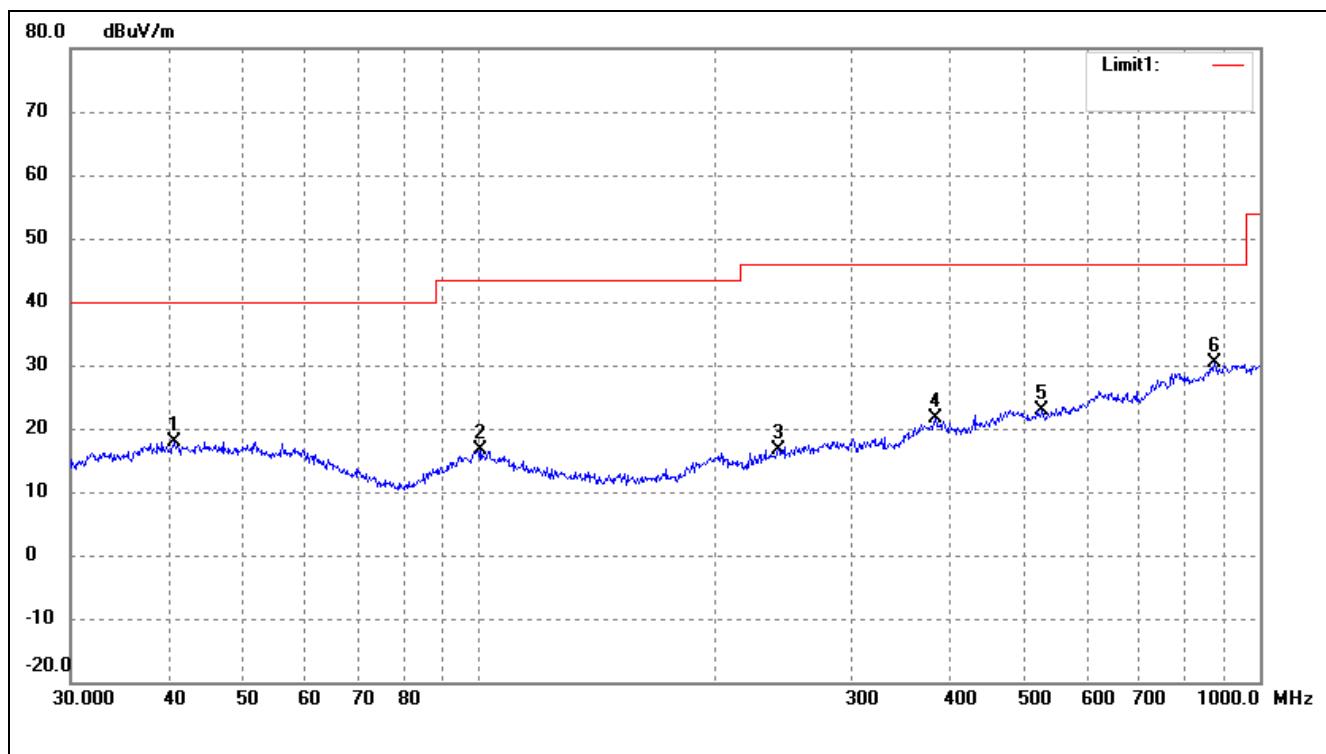
Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

### 4.5 Summary of Test Results/Plots

According to the data below, the EUT complied with the standards of FCC Part 15.205, 15.209 and 15.249, and had the worst margin of:

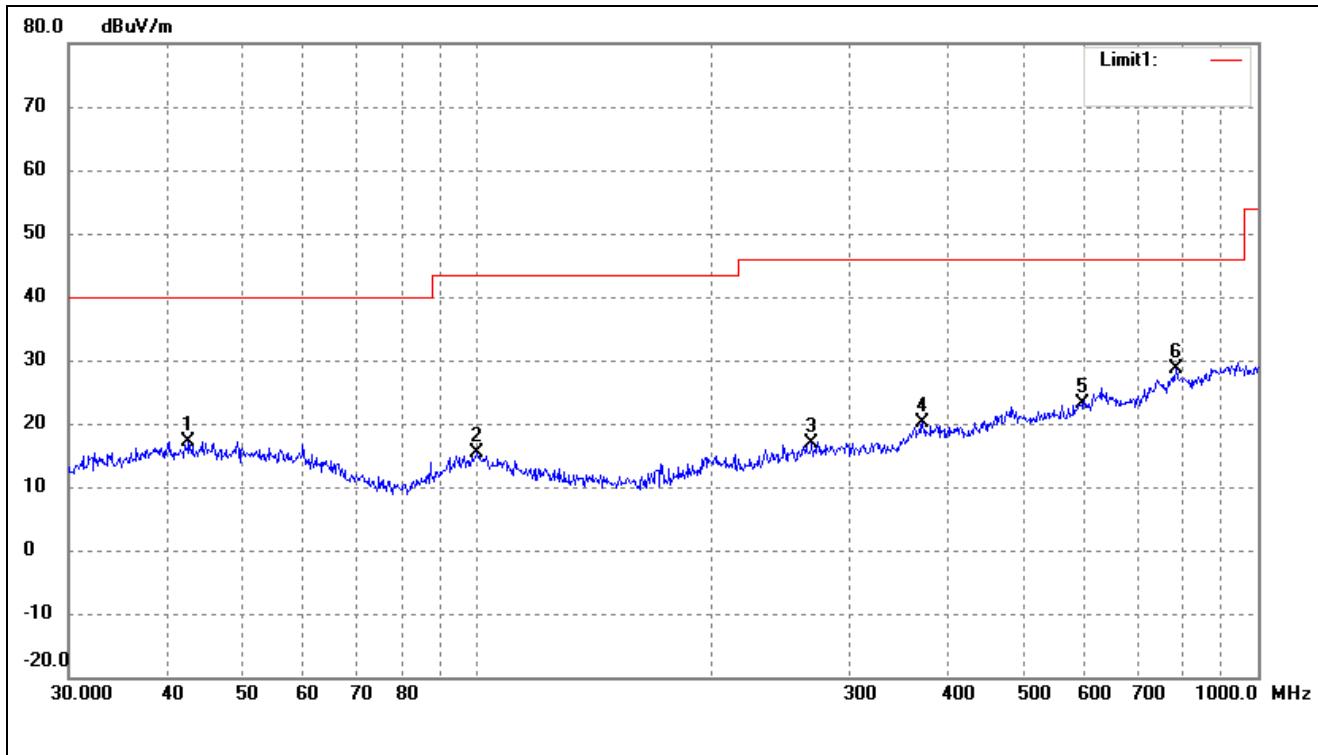
-12.7 dB at 7425 MHz in the *Vertical* polarization, **Highest Channel, 9 kHz to 25 GHz, 3Meters**

*Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.*

**Plot of Radiated Emissions Test Data (30MHz to 1GHz)***Product Description: 2.4 GHz Radio Control Vehicle - TX Portion**Tested Model**Number/ B1314**Item Number:**Operating Condition: Transmitting (Lowest Channel: 2410.00 MHz)**Power Source: DC 3.7V (1 unit of Built-in DC 3.7V 70mAh Rechargeable Lithium-ion Battery)**Test Specification: Horizontal*

No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (•)	Height (cm)	Remark
1	40.7016	28.33	-10.42	17.91	40.00	-22.09	111	100	Peak
2	100.5806	28.00	-11.46	16.54	43.50	-26.96	152	100	Peak
3	241.6763	27.63	-10.88	16.75	46.00	-29.25	20	100	Peak
4	383.9318	28.66	-7.12	21.54	46.00	-24.46	135	100	Peak
5	526.3967	28.87	-5.93	22.94	46.00	-23.06	221	100	Peak
6	875.2470	29.05	1.38	30.43	46.00	-15.57	236	100	Peak

Test Specification: Vertical

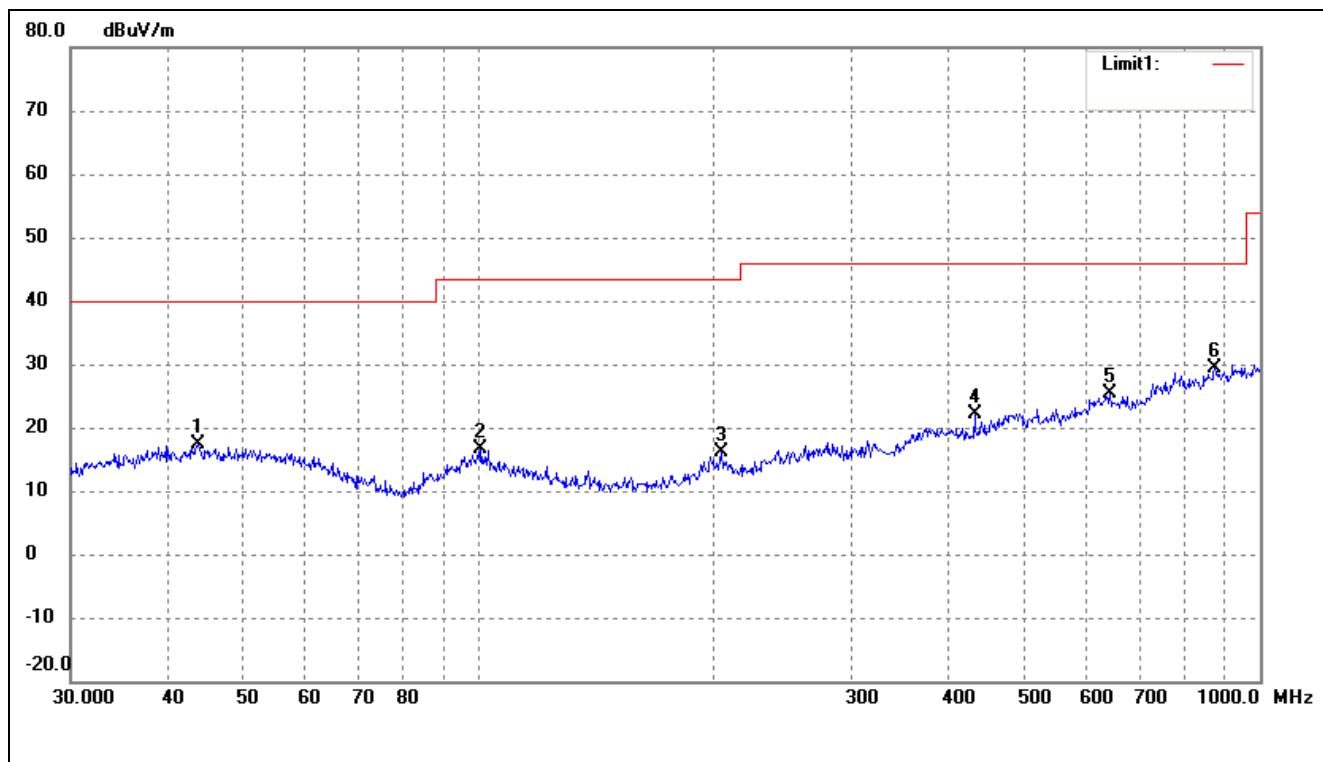


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (.)	Height (cm)	Remark
1	42.7496	27.63	-10.42	17.21	40.00	-22.79	142	100	Peak
2	99.8777	26.78	-11.43	15.35	43.50	-28.15	243	100	Peak
3	268.4853	26.61	-9.83	16.78	46.00	-29.22	152	100	Peak
4	372.0045	27.46	-7.36	20.10	46.00	-25.90	325	100	Peak
5	595.1329	27.75	-4.52	23.23	46.00	-22.77	182	100	Peak
6	785.0935	28.13	0.40	28.53	46.00	-17.47	247	100	Peak

*Operating Condition: Transmitting (Near Middle Channel: 2442.00 MHz)*

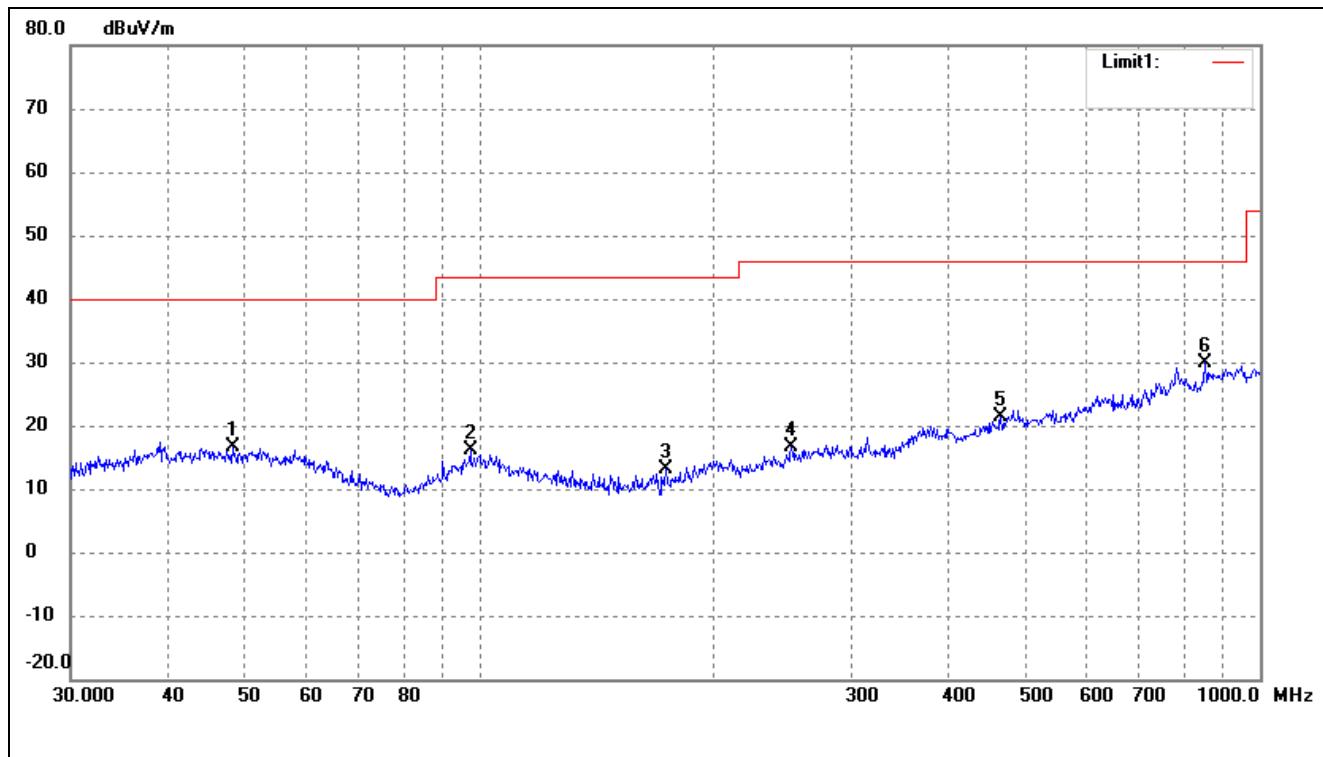
*Power Source: DC 3.7V (1 unit of Built-in DC 3.7V 70mAh Rechargeable Lithium-ion Battery)*

*Test Specification: Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	43.6585	27.94	-10.55	17.39	40.00	-22.61	132	100	Peak
2	100.5806	28.00	-11.46	16.54	43.50	-26.96	143	100	Peak
3	204.2377	27.99	-11.78	16.21	43.50	-27.29	157	100	Peak
4	431.0316	29.79	-7.66	22.13	46.00	-23.87	143	100	Peak
5	642.8613	28.69	-3.27	25.42	46.00	-20.58	172	100	Peak
6	875.2470	27.95	1.38	29.33	46.00	-16.67	264	100	Peak

*Test Specification: Vertical*

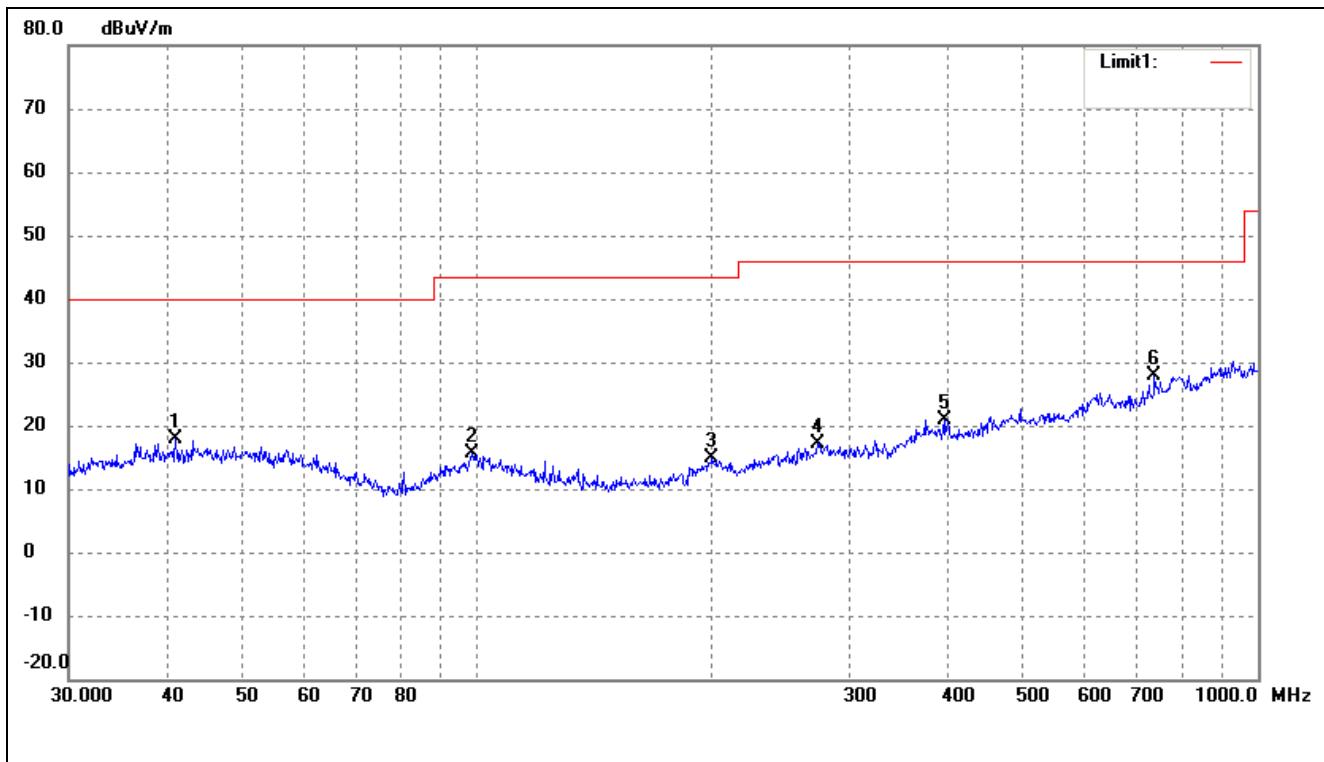


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(.)	(cm)	
1	48.3318	27.09	-10.41	16.68	40.00	-23.32	132	100	Peak
2	97.4560	28.16	-11.97	16.19	43.50	-27.31	145	100	Peak
3	173.8135	27.63	-14.47	13.16	43.50	-30.34	136	100	Peak
4	251.1804	27.17	-10.45	16.72	46.00	-29.28	174	100	Peak
5	465.5994	27.69	-6.38	21.31	46.00	-24.69	125	100	Peak
6	851.0353	29.39	0.60	29.99	46.00	-16.01	10	100	Peak

*Operating Condition: Transmitting (Highest Channel: 2475.00 MHz)*

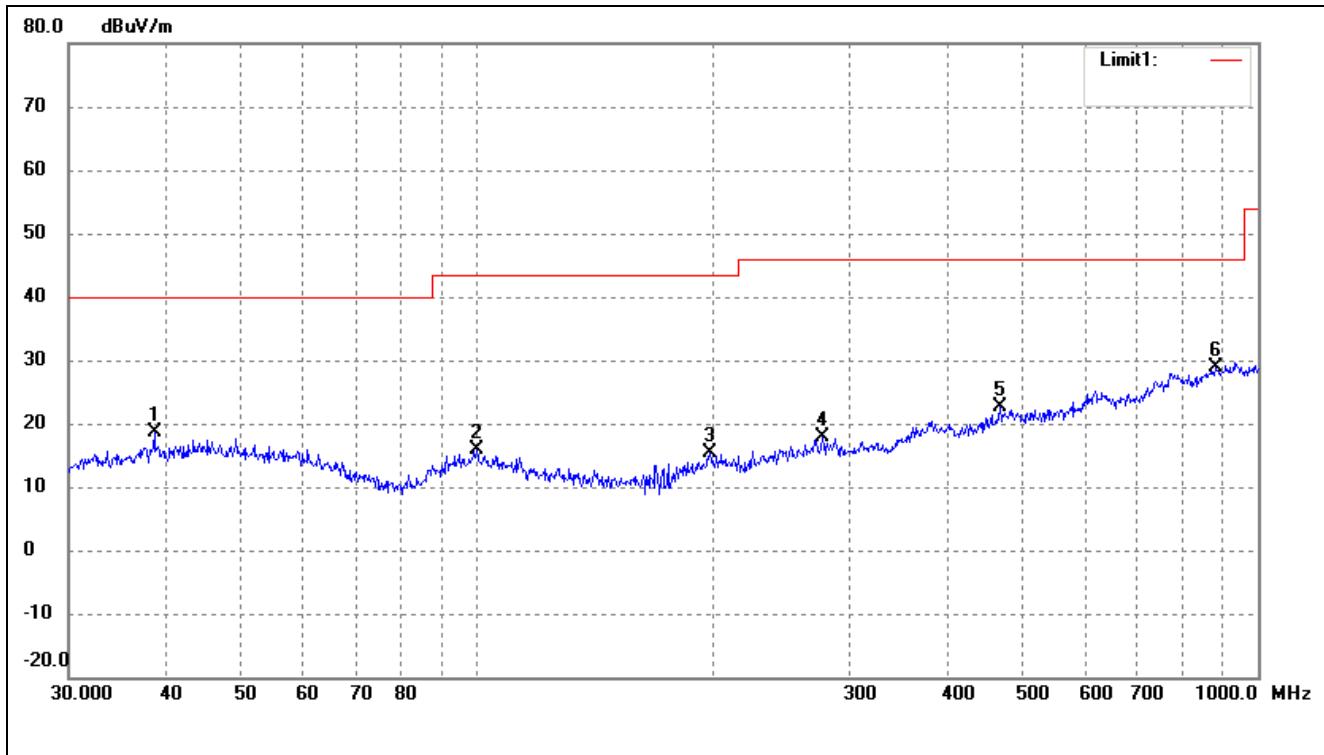
*Power Source: DC 3.7V (1 unit of Built-in DC 3.7V 70mAh Rechargeable Lithium-ion Battery)*

*Test Specification: Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(.)	(cm)	
1	41.1320	28.43	-10.44	17.99	40.00	-22.01	143	100	Peak
2	98.4866	27.24	-11.73	15.51	43.50	-27.99	146	100	Peak
3	199.9856	26.59	-11.60	14.99	43.50	-28.51	125	100	Peak
4	273.2341	26.83	-9.70	17.13	46.00	-28.87	18	100	Peak
5	396.2415	28.36	-7.49	20.87	46.00	-25.13	215	100	Peak
6	737.0714	28.95	-1.19	27.76	46.00	-18.24	237	100	Peak

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (.)	Height (cm)	Remark
1	38.6160	29.30	-10.72	18.58	40.00	-21.42	121	100	Peak
2	99.8777	27.36	-11.43	15.93	43.50	-27.57	123	100	Peak
3	198.5880	27.15	-11.78	15.37	43.50	-28.13	164	100	Peak
4	277.0935	27.38	-9.59	17.79	46.00	-28.21	136	100	Peak
5	467.2349	28.97	-6.27	22.70	46.00	-23.30	147	100	Peak
6	881.4067	27.34	1.48	28.82	46.00	-17.18	192	100	Peak

*Spurious Emissions Above 1 GHz*

Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar	Detector
Lowest Channel: 2410.00 MHz							
2410	90.75	-3.59	87.16	114	-26.84	H	Peak
2410	89.88	-3.59	86.29	94	-7.71	H	Average
4820	61.83	-3.59	58.24	74	-15.76	H	Peak
4820	38.11	-3.59	34.52	54	-19.48	H	Average
7230	58.34	-0.52	57.82	74	-16.18	H	Peak
7230	38.97	-0.52	38.45	54	-15.55	H	Average
2410	86.91	-3.59	83.32	114	-30.68	V	Peak
2410	84.92	-3.59	81.33	94	-12.67	V	Average
4820	60.14	-3.59	56.55	74	-17.45	V	Peak
4820	38.7	-3.59	35.11	54	-18.89	V	Average
7230	58.44	-0.52	57.92	74	-16.08	V	Peak
7230	40.61	-0.52	40.09	54	-13.91	V	Average
Near Middle Channel: 2442.00 MHz							
2442	91.24	-3.59	87.65	114	-26.35	H	Peak
2442	86.57	-3.59	82.98	94	-11.02	H	Average
4884	58.24	-3.49	54.75	74	-19.25	H	Peak
4884	39.96	-3.49	36.47	54	-17.53	H	Average
7326	59.49	-0.47	59.02	74	-14.98	H	Peak
7326	39.85	-0.47	39.38	54	-14.62	H	Average
2442	90.24	-3.59	86.65	114	-27.35	V	Peak
2442	82.54	-3.59	78.95	94	-15.05	V	Average
4884	61.98	-3.49	58.49	74	-15.51	V	Peak
4884	41.6	-3.49	38.11	54	-15.89	V	Average
7326	60.47	-0.47	60.00	74	-14.00	V	Peak
7326	39.00	-0.47	38.53	54	-15.47	V	Average

Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Highest Channel: 2475.00 MHz							
2475	87.51	-3.59	83.92	114	-30.08	H	Peak
2475	86.71	-3.59	83.12	94	-10.88	H	Average
4950	59.58	-3.41	56.17	74	-17.83	H	Peak
4950	38.83	-3.41	35.42	54	-18.58	H	Average
7425	60.94	-0.42	60.52	74	-13.48	H	Peak
7425	39.41	-0.42	38.99	54	-15.01	H	Average
2475	83.73	-3.59	80.14	114	-33.86	V	Peak
2475	81.86	-3.59	78.27	94	-15.73	V	Average
4950	61.11	-3.41	57.7	74	-16.3	V	Peak
4950	41.82	-3.41	38.41	54	-15.59	V	Average
7425	61.72	-0.42	61.3	74	-12.7	V	Peak
7425	40.55	-0.42	40.13	54	-13.87	V	Average

*Note: Testing is carried out with frequency rang 9 kHz to the 10th harmonic, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*

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

## 5. Out of Band Emissions

### 5.1 Standard Applicable

Emissions 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 §15.209, whichever is the lesser attenuation.

### 5.2 Test Procedure

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2483.5MHz, than mark the higher-level emission for comparing with the FCC Rules.

### 5.3 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

### 5.4 Summary of Test Results/Plots

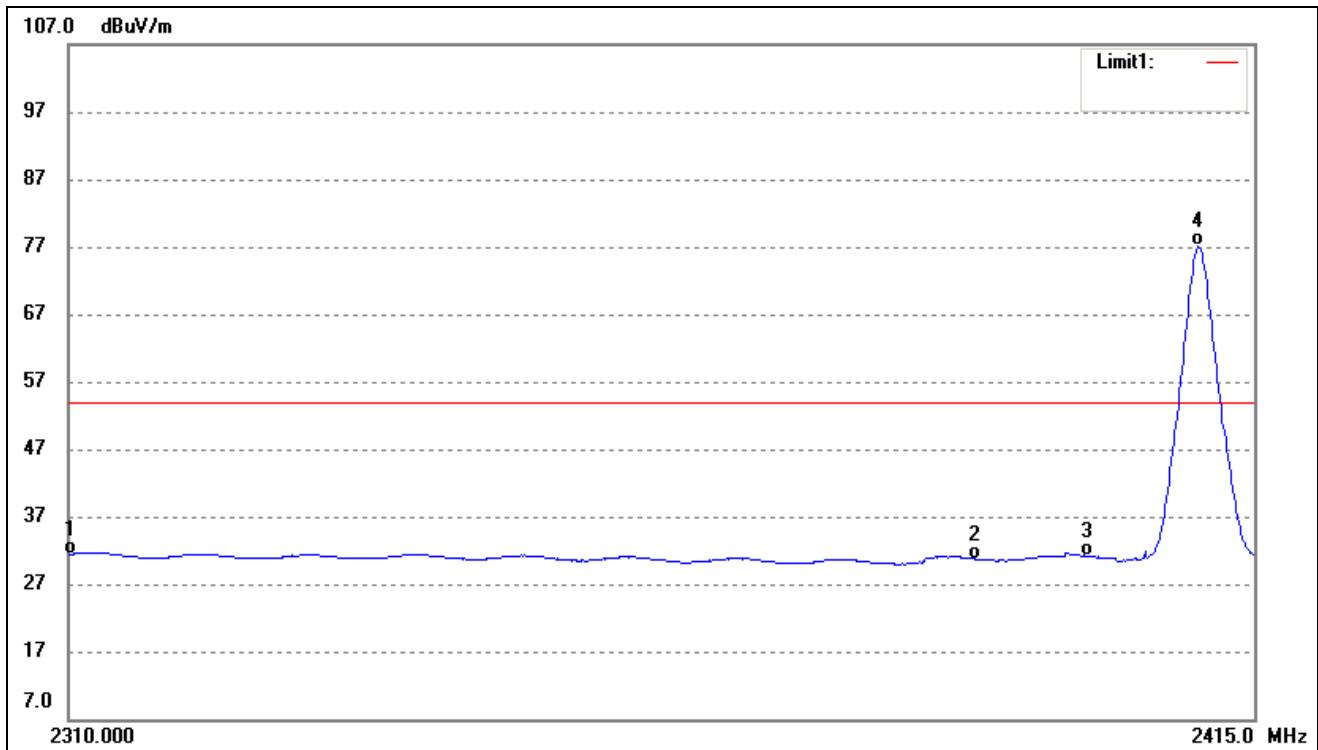
Test mode	Frequency	Limit	Result
	(MHz)	(dBuV/dBc)	
Lowest	2310.00	<54 dBuV	Pass
	2390.00	<54 dBuV	Pass
	2400.00	<54 dBuV	Pass
Highest	2483.50	<54 dBuV	Pass
	2500.00	<54 dBuV	Pass

The edge emissions are below the FCC Part 15.209 Limits or complies with the FCC Part 15.249 requirements.

Please refer to the following test plots.

Restricted Bandedge (Lowest)

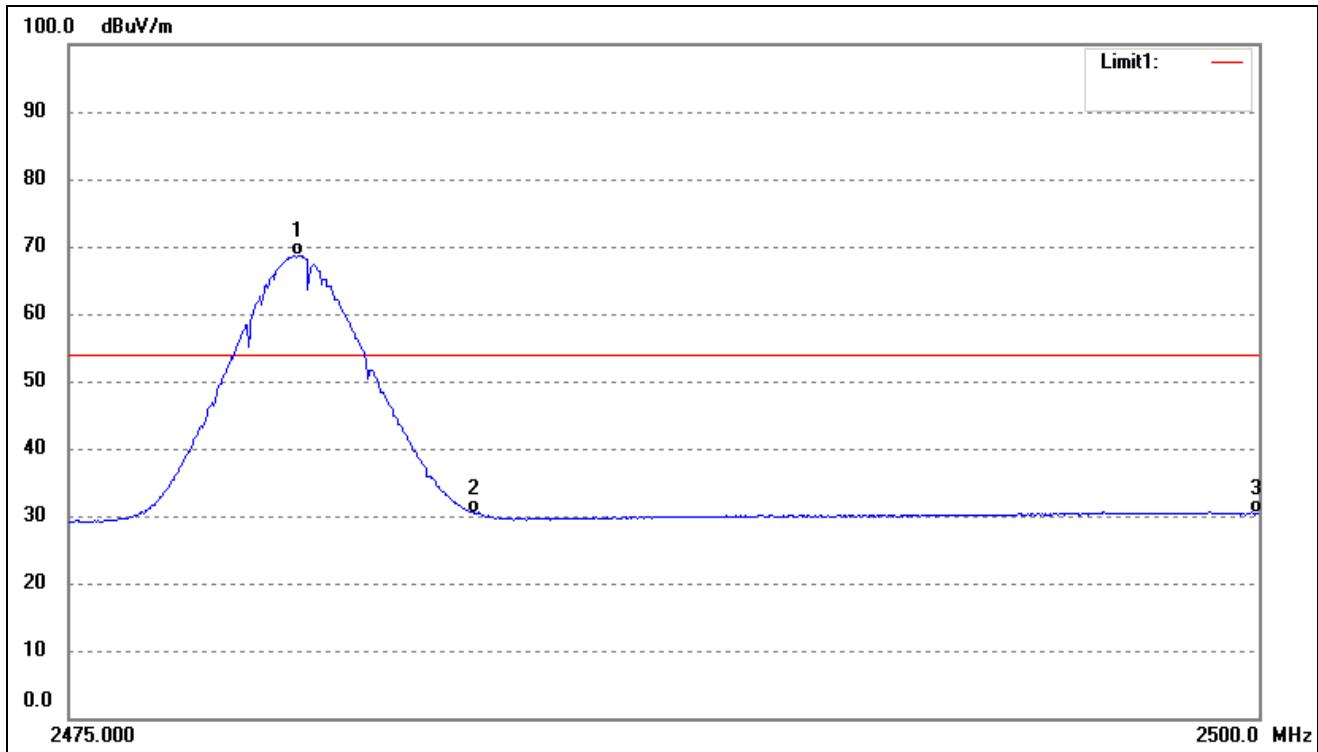
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	37.79	-6.38	31.41	54.00	-22.59	Average Detector
	2310.000	49.96	-6.38	43.58	74.00	-30.42	Peak Detector
2	2390.000	37.46	-7.26	30.20	54.00	-23.80	Average Detector
	2390.000	49.39	-7.26	42.13	74.00	-31.87	Peak Detector
3	2400.000	38.50	-7.37	31.13	54.00	-22.87	Average Detector
	2400.000	50.04	-7.37	42.67	74.00	-31.33	Peak Detector
4	2409.960	84.92	-7.41	77.51	/	/	Average Detector
	2409.960	86.91	-7.41	79.50	/	/	Peak Detector

Restricted Bandedge (Highest)

Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2475.015	86.71	-7.29	79.42	/	/	Average Detector
	2474.985	87.51	-7.29	80.22	/	/	Peak Detector
2	2483.500	37.71	-7.28	30.43	54.00	-23.57	Average Detector
	2483.500	49.29	-7.28	42.01	74.00	-31.99	Peak Detector
3	2500.000	37.49	-7.25	30.24	54.00	-23.76	Average Detector
	2500.000	50.33	-7.25	43.08	74.00	-30.92	Peak Detector

## 6. Emission Bandwidth

### 6.1 Standard Applicable

According to FCC Part 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

### 6.2 Test Procedure

According to the ANSI 63.10-2013, the emission bandwidth test method as follows:

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Set span = 1MHz, centered on a transmitting channel

RBW  $\geq$ 1% 20dB Bandwidth, VBW  $\geq$ RBW

Sweep = Auto

Detector function = Peak

Trace = Max hold

All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.

### 6.3 Environmental Conditions

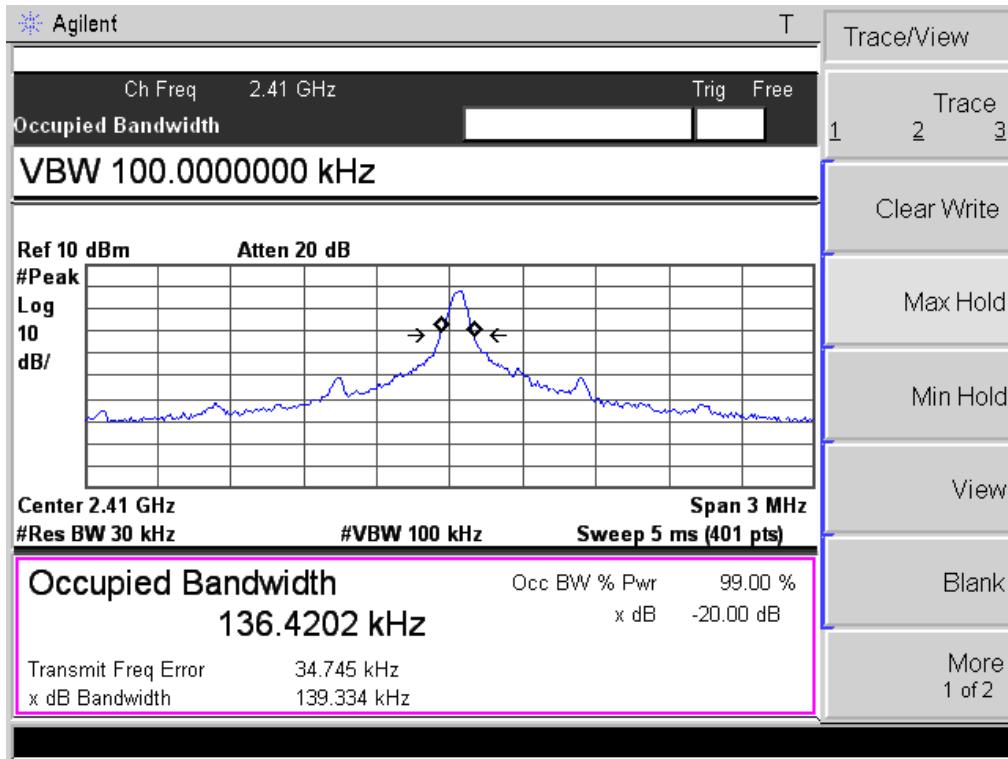
Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

### 6.4 Summary of Test Results/Plots

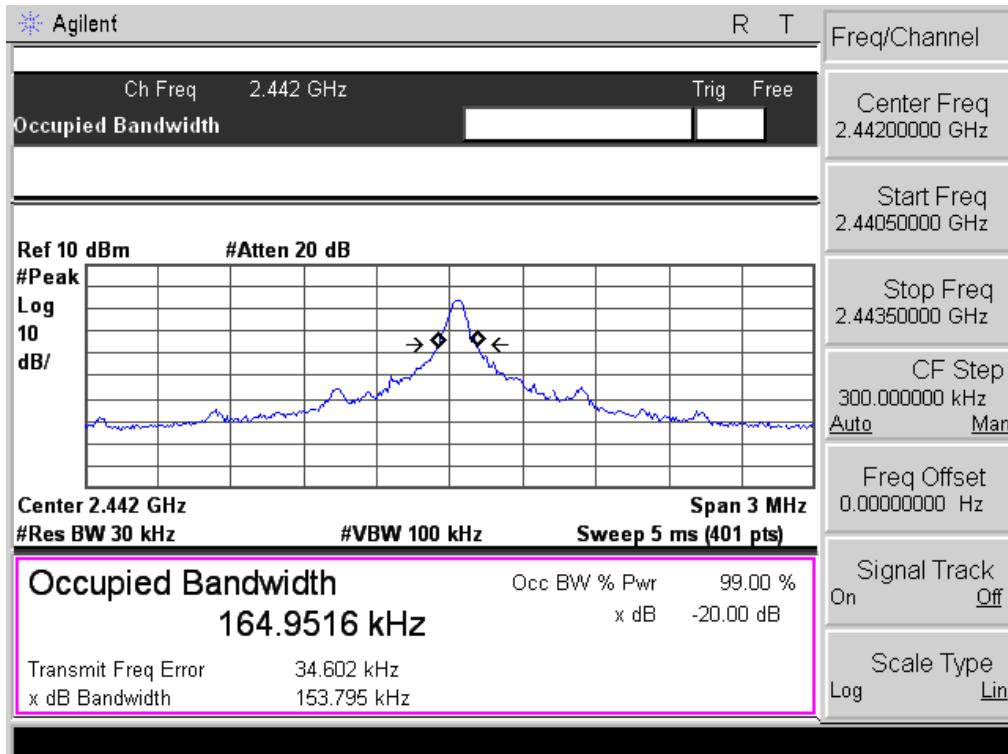
Channel	Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)
Lowest Channel	2410.00	139.334	136.4202
Near Middle Channel	2442.00	153.795	164.9516
Highest Channel	2475.00	134.382	145.2373

Please refer to the following test plots.

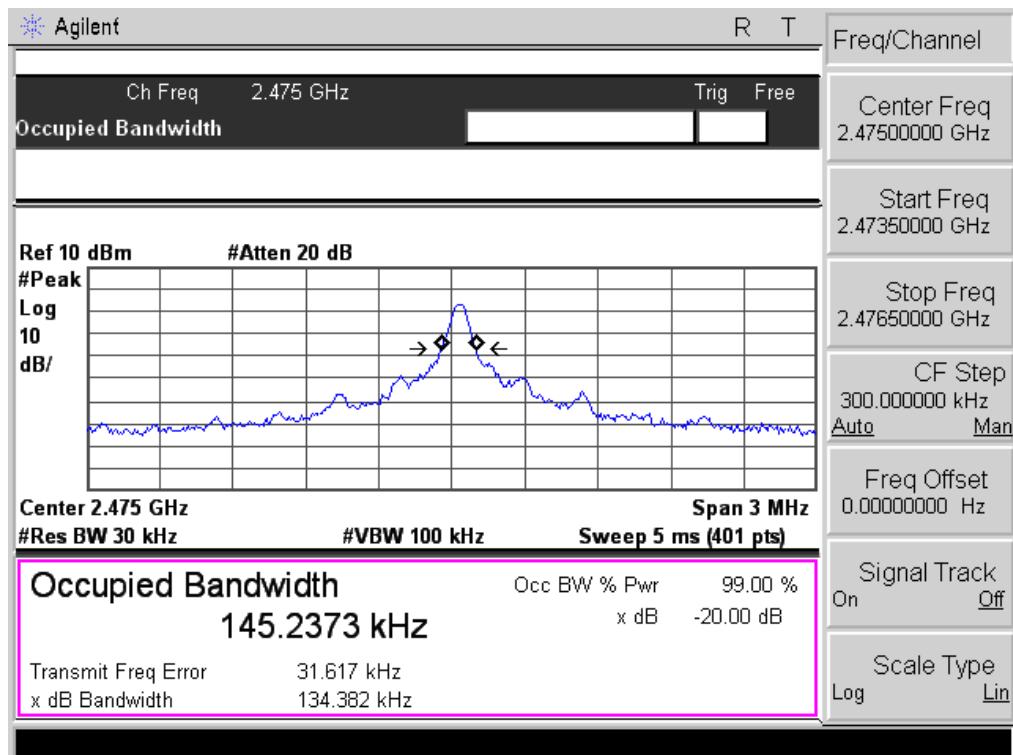
Lowest Channel:



Near Middle Channel:



Highest Channel:



\*\*\*\*\* END OF REPORT \*\*\*\*\*