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Test Report

Applicant	Scientific Toys Ltd.		
Address	Rm. 1108, 11/F., Block B, New Mandarin Plaza, 14 Science Museum Road, TST East, Kowloon,		
FCC ID Number	Hong Kong FCC ID: BY33548-24GT		
Brand Name(s)	None		
Model Number(s)/ Catalog Number(s)	21882, 6001056, 6001071, BY33548-24GT		
Product Description	2.408-2.460 GHz Wireless Remote Control Device - TX		
Operating Frequency	2.408-2.460 GHz		
Rules/Standards	Part 15.249 of the FCC Rules		
Received Date	24th June, 2014		
Tested Date	25th June, 2014		
Approved by	Dick Chan (Director of Gakkiku)		
Tested by	Lahm Peng (Engineer of Shenzhen SEM.Test)		
Signed by	Jandy So (Manager of Shenzhen SEM.Test)		
Report Number	GKK201406240A		
Test Results	□ PASSED □ FAILED		

GENERAL

The report is written by Gakkiku Technology Company. The tested device complies with the general approval requirements of the FCC Rules and the Industry Canada as identified in this test report.

TEST LOCATION

The tested device was tested at the test site of the Shenzhen SEM.Test Technology Co., Ltd., 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, 518101, Guangdong, China. The FCC Recognized 2.948 Listed Test Firm Registration Number is 934118. The Industry Canada IC OATS Filing Number/Assigned Code is 11464A.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Scientific Toys Ltd.

Address of applicant: Rm. 1108, 11/F., Block B, New Mandarin Plaza,

14 Science Museum Road, TST East, Kowloon, Hong Kong

Manufacturer: Scientific Toys Ltd.

Address of manufacturer: Rm. 1108, 11/F., Block B, New Mandarin Plaza,

14 Science Museum Road, TST East, Kowloon, Hong Kong

General Description of EUT

Item	Description
Product Description:	2.408-2.460 GHz Wireless Remote Control Device - TX
Brand Name(s):	/
Model Number(s)/	21882, 6001056, 6001071, BY33548-24GT
Catalog Number(s):	
Power Source:	DC 9V Battery
Output Power:	<0dBm
Frequency Range:	2.408-2.460 GHz
No. of Channel:	/
Channel Separation:	/
Antenna Type:	Integral Antenna
Size:	9.9x6.1x3.0 cm
For more information refer	to the circuit diagram form and the user's manual.

The test data is gathered from a production sample, provided by the manufacturer.

1.2 Test Standards

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

The objective is to determine compliance with Part 15 Subpart C of the FCC Rules, and Part 15.249, 15.107, 15.203, 15.205, 15.207 and 15.209 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 Related Submittal(s)/Grant(s)

No Related Submittal(s).

1.4 Test Methodology

All measurements contained in this report were conducted with ANSI Standards C63.4-2003, American National Standard Institute for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted according to the Operating Instructions and let the EUT keep transmitting.

1.5 Test Facility

FCC Recognized 2.948 Listed Test Firm Registration Number: 934118

EMC Laboratory of the Shenzhen SEM.Test Technology Co., Ltd. has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the FCC Recognized 2.948 Listed Test Firm Registration Number is 934118.

Industry Canada IC OATS Filing Number/Assigned Code: 11464A

The 3 Meter Semi-Anechoic Chamber of the Shenzhen SEM. Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Industry Canada IC OATS Filing Number/Assigned Code (11464A).

1.6 EUT Exercise Software

The EUT exercise program used during the testing was designed to exercise the system components. The test software is started while the whole system is on.

1.7 Accessories Equipment List and Details

Manufacturer	Description	Model	Serial Number
N/A	Tact switch	N/A	N/A
N/A	2 units of 5 cm-long wires (unshielded	N/A	N/A
	and without core) which connect		
	between GND and 4th pin of U2		

1.8 EUT Cable List and Details

Cable Description	Cable Description Length (M)		With Core/ Without Core	
/			/	

2. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
Part 15.203	Antenna Requirement	Compliant
Part 15.107(a)	Conducted Emission	N/A
Part 15.205	Restricted Band of Operation	Compliant
Part 15.209	Radiated Emission	Compliant
Part 15.249(a)	Field Strength	Compliant
Part 15.249(d)	Out of Band Emission	Compliant

3. Part 15.203 - ANTENNA REQUIREMENT

3.1 Standard Applicable

According to Part 15.203 of the FCC Rules, 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 an integral antenna, fulfill the requirement of this section.

4. Part 15.249(a), 15.205 & 15.209 - RADIATED EMISSION

4.1 Measurement Uncertainty

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is ± 3.0 dB.

4.2 Standard Applicable

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

Fundamental Frequency	Field strength of	Field strength of harmonics
	fundamental	(micro-volts/meter)
	(milli-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

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in Part 15.35 of the FCC Rules for limiting peak emissions apply.

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 20 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS UNDER PART 15.209 OF THE FCC RULES, WHICHEVER IS THE LESSER ATTENUATION.

Emissions that fall in the restricted bands (Part 15.205 of the FCC Rules) must be less than 54dBuV/m otherwise the spurious and harmonics must be attenuated by at least 20dB.

4.3 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2014-05-28	2015-05-27
EMI Test Receiver	R&S	ESVB	825471/005	2014-05-28	2015-05-27
Pre-amplifier	Agilent	8447F	3113A06717	2014-05-28	2015-05-27
Pre-amplifier	Compliance Direction	PAP-0118	24002	2014-05-28	2015-05-27
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2014-05-24	2015-05-23
Horn Antenna	ETS	3117	00086197	2014-05-24	2015-05-23
Horn Antenna	ETS	3116B	00088203	2014-05-24	2015-05-23
Loop Antenna	SCHWARZECK	HFRA 5165	9365	2014-05-24	2015-05-23

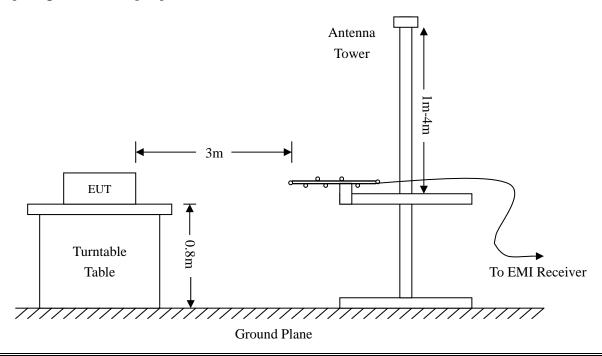
Statement of Traceability: All calibrations have been performed per the NVLAP requirements traceable to the NIST.

4.4 Test Procedure

The setup of EUT is according with per ANSI Standards C63.4-2003 measurement procedure. The specification used was with the limits of Part 15.249(a), 15.205 and 15.209 of the FCC Rules. The radiated emissions were investigated by rotating the EUT through the three (3) orthogonal planes as mandated in ANSI Standards C63.4-2003.

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



4.5 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:

Corr. Ampl. = Indicated Reading + Ant. Factor + Cable Loss - 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 for Part 15 of the FCC Rules. The equation for margin calculation is as follows:

Margin = Corr. Ampl. - Limit of Part 15 of the FCC Rules

4.6 Environmental Conditions

Temperature:	26 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

4.7 Summary of Test Results/Plots

According to the data below, the standards of <u>Part 15.249</u>, <u>15.205</u> and <u>15.209</u> of the <u>FCC Rules</u>, and had the worst margin of:

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

Plot of Radiation Emissions Test

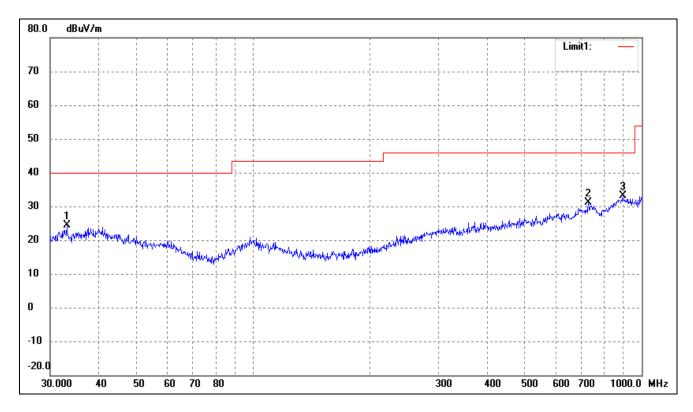
Radiated Disturbance

Product Description: 2.408-2.460 GHz Wireless Remote Control Device - TX
Model Number(s)/Catalog Number(s): 21882, 6001056, 6001071, BY33548-24GT
Operating Condition: Transmitting below 1 GHz (Lowest Channel: 2408 MHz)

Test Specification: Horizontal & Vertical

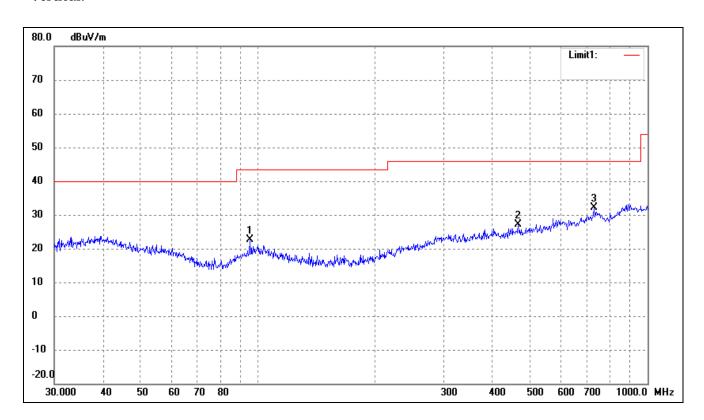
Power Source: DC 9V Battery

Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	19.07	5.41	24.48	40.00	-15.52	324	100	Peak
2	729.3583	18.18	12.92	31.10	46.00	-14.90	57	100	Peak
3	893.8567	16.26	16.85	33.11	46.00	-12.89	115	100	Peak

Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	95.4270	17.70	4.98	22.68	43.50	-20.82	251	100	Peak
2	465.5994	16.67	10.44	27.11	46.00	-18.89	314	100	Peak
3	729.3583	17.09	14.92	32.01	46.00	-13.99	47	100	Peak

Plot of Radiation Emissions Test

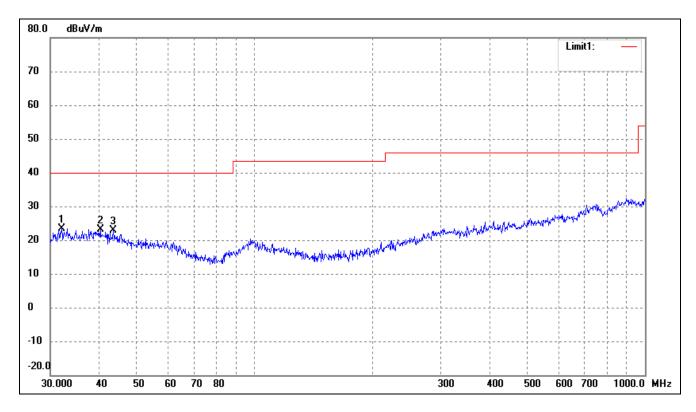
Radiated Disturbance

Product Description: 2.408-2.460 GHz Wireless Remote Control Device - TX
Model Number(s)/Catalog Number(s): 21882, 6001056, 6001071, BY33548-24GT
Operating Condition: Transmitting below 1 GHz (Near Middle Channel: 2442 MHz)

Test Specification: Horizontal & Vertical

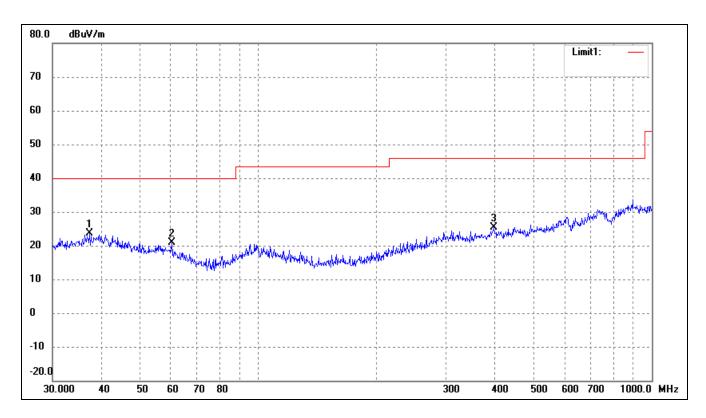
Power Source: DC 9V Battery

Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	32.0668	18.24	5.16	23.40	40.00	-16.60	314	100	Peak
2	40.2757	15.99	7.22	23.21	40.00	-16.79	75	100	Peak
3	43.5057	15.92	6.90	22.82	40.00	-17.18	39	100	Peak

Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	37.2855	14.79	8.79	23.58	40.00	-16.42	255	100	Peak
2	60.2801	15.61	5.29	20.90	40.00	-19.10	35	100	Peak
3	397.6334	15.47	10.03	25.50	46.00	-20.50	174	100	Peak

Plot of Radiation Emissions Test

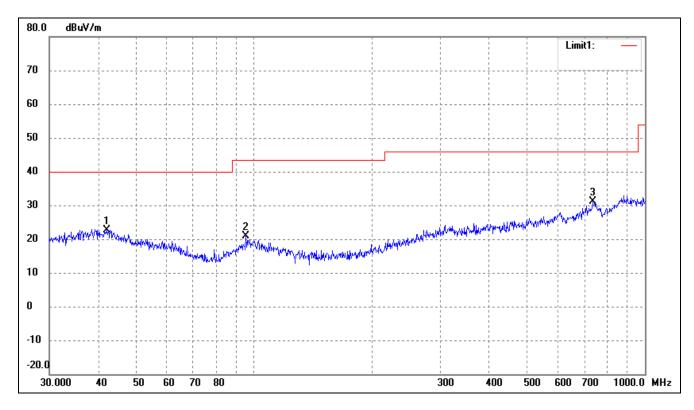
Radiated Disturbance

Product Description: 2.408-2.460 GHz Wireless Remote Control Device - TX
Model Number(s)/Catalog Number(s): 21882, 6001056, 6001071, BY33548-24GT
Operating Condition: Transmitting below 1 GHz (Highest Channel: 2460 MHz)

Test Specification: Horizontal & Vertical

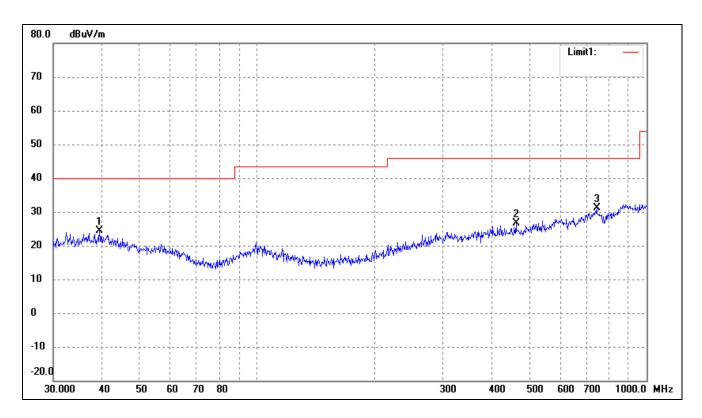
Power Source: DC 9V Battery

Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	42.0066	14.03	8.65	22.68	40.00	-17.32	214	100	Peak
2	95.4270	15.84	4.98	20.82	43.50	-22.68	26	100	Peak
3	734.4913	15.85	15.22	31.07	46.00	-14.93	47	100	Peak

Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	39.4372	17.34	7.10	24.44	40.00	-15.56	154	100	Peak
2	462.3455	16.17	10.50	26.67	46.00	-19.33	39	100	Peak
3	744.8661	17.43	13.82	31.25	46.00	-14.75	54	100	Peak

Spurious Emission above 1 GHz

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Lowest Chanr	nel: 2408 MHz	Z		•
2408	89.13	-3.50	85.63	114	-28.37	Н	Peak
2408	65.99	-3.50	62.49	94	-31.51	Н	Average
4816	52.81	0.55	53.36	74	-20.64	Н	Peak
4816	33.78	0.55	34.33	54	-19.67	Н	Average
7224	48.8	3.68	52.48	74	-21.52	Н	Peak
7224	29.5	3.68	33.18	54	-20.82	Н	Average
2408	79.29	-3.50	75.79	114	-38.21	V	Peak
2408	59.95	-3.50	56.45	94	-37.55	V	Average
4816	50.22	0.55	50.77	74	-23.23	V	Peak
4816	30.21	0.55	30.76	54	-23.24	V	Average
7224	48.33	3.68	52.01	74	-21.99	V	Peak
7224	27.99	3.68	31.67	54	-22.33	V	Average
		Ne	ar Middle Cha	annel: 2442 M	IHz		
2442	88.21	-3.41	84.80	114	-29.2	Н	Peak
2442	67.98	-3.41	64.57	94	-29.43	Н	Average
4884	54.9	0.66	55.56	74	-18.44	Н	Peak
4884	34.22	0.66	34.88	54	-19.12	Н	Average
7326	48.77	3.76	52.53	74	-21.47	Н	Peak
7326	29.32	3.76	33.08	54	-20.92	Н	Average
2442	78.86	-3.41	75.45	114	-38.55	V	Peak
2442	59.73	-3.41	56.32	94	-37.68	V	Average
4884	55.3	0.66	55.96	74	-18.04	V	Peak
4884	35.6	0.66	36.26	54	-17.74	V	Average
7326	47.1	3.76	50.86	74	-23.14	V	Peak
7326	27.08	3.76	30.84	54	-23.16	V	Average

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector		
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V			
	Highest Channel: 2460 MHz								
2460	88.6	-3.37	85.23	114	-28.77	Н	Peak		
2460	68.35	-3.37	64.98	94	-29.02	Н	Average		
4920	51.98	0.71	52.69	74	-21.31	Н	Peak		
4920	31.95	0.71	32.66	54	-21.34	Н	Average		
7380	53.2	3.81	57.01	74	-16.99	Н	Peak		
7380	32.94	3.81	36.75	54	-17.25	Н	Average		
2460	78.09	-3.37	74.72	114	-39.28	V	Peak		
2460	57	-3.37	53.63	94	-40.37	V	Average		
4920	49.45	0.71	50.16	74	-23.84	V	Peak		
4920	31.3	0.71	32.01	54	-21.99	V	Average		
7380	49.57	3.81	53.38	74	-20.62	V	Peak		
7380	30.27	3.81	34.08	54	-19.92	V	Average		

Note: Testing is carried out with frequency range 9 kHz to the tenth harmonics, which above 5th Harmonics are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.

The measurements greater than 20 dB below the limit from 9 kHz to 30 MHz.

5. Part 15.249(b) - 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 under Part 15.209 of the FCC Rules, whichever is the lesser attenuation.

5.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2014-05-28	2015-05-27
EMI Test Receiver	R&S	ESVB	825471/005	2014-05-28	2015-05-27
Pre-amplifier	Agilent	8447F	3113A06717	2014-05-28	2015-05-27
Pre-amplifier	Compliance Direction	PAP-0118	24002	2014-05-28	2015-05-27
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2014-05-24	2015-05-23
Horn Antenna	ETS	3117	00086197	2014-05-24	2015-05-23
Spectrum Analyzer	Agilent	E4402B	US41192821	2014-05-24	2015-05-23
Attenuator	ATTEN	ATS100-4-20	/	2014-05-24	2015-05-23

Statement of Traceability: All calibrations have been performed per the NVLAP requirements traceable to the NIST.

5.3 Test Procedure

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2438.5MHz, than mark the higher-level emission for comparing with the FCC Rules.

5.4 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	54%
ATM Pressure:	1012 mbar

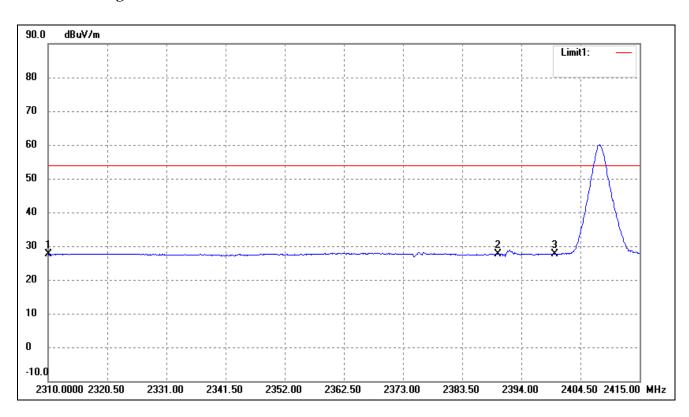
5.5 Summary of Test Results/Plots

Frequency	Emission	Limit
(MHz)	$(dB\mu V/m)$	$(dB\mu V/m)$
2390.0	35.60	54
2400.0	51.75	54
2483.5	46.89	54

Test Result Pass

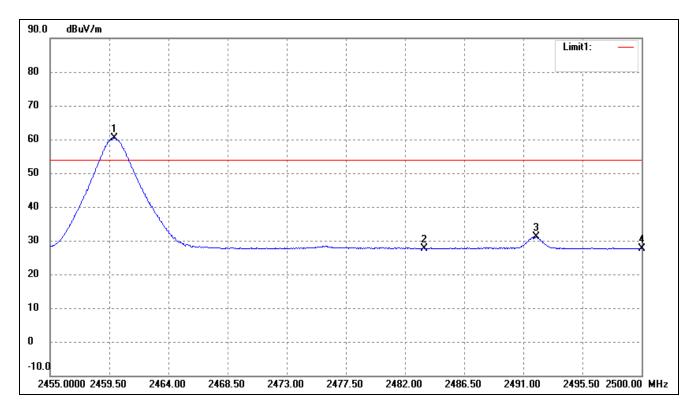
Refer to the attached plots.

Lower Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	31.22	-3.71	27.51	54.00	-26.49	Average
	2310.000	44.12	-3.71	40.41	74.00	-33.59	Peak
2	2390.000	31.07	-3.54	27.53	54.00	-26.47	Average
	2390.000	52.07	-3.54	48.53	74.00	-25.47	Peak
3	2400.000	31.22	-3.51	27.71	54.00	-26.29	Average
	2400.000	58.05	-3.51	54.54	74.00	-19.46	Peak

Upper Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2460.000	63.83	-3.37	60.46	/	/	Average
2	2483.500	30.95	-3.33	27.62	54.00	-26.38	Average
	2483.500	47.73	-3.33	44.40	74.00	-29.60	Peak
3	2491.990	34.33	-3.30	31.03	54.00	-22.97	Average
	2491.990	45.60	-3.30	42.30	74.00	-31.70	Peak
4	2500.000	30.92	-3.28	27.64	54.00	-26.36	Average
	2500.000	47.56	-3.28	44.28	74.00	-29.72	Peak

6. Emission Bandwidth

6.1 Standard Applicable

According to Part 15.215 (c) of the FCC Rules, 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 Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2014-05-28	2015-05-27
Attenuator	ATTEN	ATS100-4-2 0	/	2014-05-28	2015-05-27

6.3 Test Procedure

According to the ANSI Standards C63.4-2003, 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 = 1 MHz, centered on a transmitting channel

RBW ≥1% 20 dB Bandwidth, VBW ≥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.

6.4 Environmental Conditions

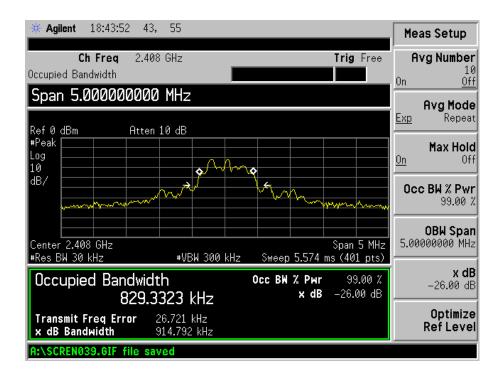
Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.5 Summary of Test Results/Plots

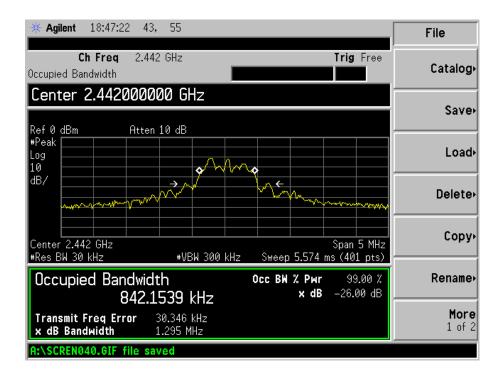
Channel	Frequency	26dB Bandwidth	99% Bandwidth
	MHz	kHz	kHz
Lowest Channel	2408	914.792	829.3323
Near Middle Channel	2442	1295	842.1539
Highest Channel	2460	1299	848.6551

Please refer to the following test plots

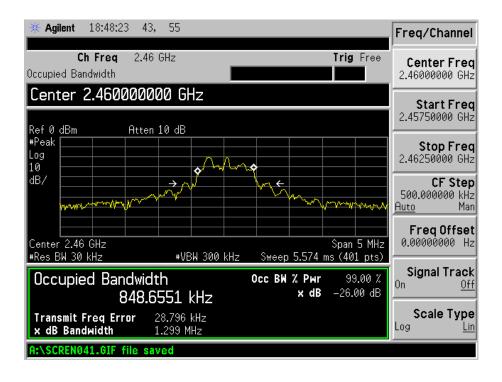
Lowest Channel:



Near Middle Channel:



Highest Channel:



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