

CENTRE OF TESTING SERVICE INTERNATIONAL

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER: CGZ3130606-00455-EF



CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

CENTRE OF TESTING SERVICE





	TEST REPORT For FCC ID
	47 CFR PART 15 OCT, 2012
Report Reference No	. CGZ3130606-00455-EF
Date of issue	. 04 September 2013
Testing Laboratory Name	. CETRE OF TESTING SERVICE CO., LTD.
Address	. A101,No.65,Zhuji Highway,Tianhe District,Guangzhou, China
Testing location/ procedure	. Full application of Harmonised standards ■
	Partial application of Harmonised standards \square
	Other standard testing method \square
Applicant's name	. Triple C Designs
Address	. 47 West 14th Street, 4FL, New York, NY 10001
Test specification	
Standard	· 47 CFR PART 15 OCT, 2012
Test Report Form No	. CTSEMC-1.0
TRF Originator	. CENTRE OF TESTING SERVICE CO., LTD.
Master TRF	. Dated 2009-01
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Test item description	. bluBOOM
Trade Mark	Triple C
Manufacturer	1
Model/Type reference	ASN624
Ratings	Battery 3.7V
Operating Frequency	. 2402MMHz ~2480.00MHz
Result	. Positive

Compiled by:

Supervised by:

Approved by:

Kate zhang / Fileadministrators

Duke yang / Technique principal

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04 September 2013

FCCID-TEST REPORT

Test Report No. :	CGZ3130606-00455-EF	04 September 2013 Date of issue
Type / Model	ASN624	
EUT	bluBOOM	
Applicant	Triple C Designs	
Address	47 West 14th Street, 4FL, New York, NY 100	01
Telephone	+1-2129650626 ext 132	
Fax	+1-2129371909	
Contact	Ting Ye	
Manufacturer	/	
Address	1	
Telephone	1	
Fax	1	
Contact	1	
Test report holder	1	
Address	1	
Telephone	1	
Fax	1	

Test Result according to the standards on page 1: **PASSED**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1.TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2012
- ANSI C63.4-2009

2.SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	06 June 2013
Testing commenced on	06 June~12 July 2013
_	
Testing concluded on	04 September 2013

2.2 FINAL ASSESSMENT

Th_{Δ} [requirements	nortaining :	ta tha	tochnical	ctandarde	and tactor	l anaration	modec	arc
11161	requirements	perialiling	io ilie	tecililleai	Stariuarus	and testet	ı operalion	1110065	alc

■ - fulfil	led.

□ - **not** fulfilled.

The equipment under test

fulfils the FCC requirements cited on page 1.

- does not fulfil the FCC requirements cited on page 1.

3.EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : ■ Battery 3.7V

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1

Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

	- Standb	٧
--	----------	---

☐ TX- Y position

☐ TX- Zposition

■ TX- X position

Charging

Operation mode 1:TX-X Position Low (2402MHz) , TX-X Position Middle (2441MHz),

TX-X Position High (2480MHz)

Operation mode 2: Charging

Note:Operation mode 1 TX -X position of EUT is the radiated test worst case; Operation mode 2 Charging is the conducted test worst case. so only these test results be recorded in the test report.

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3.4 EUT configuration

3.4.1. Description of configuration (EUT)

Description	:	bluBOOM
Model Number	:	ASN624
Operation frequency	:	2402~ 2480 MHz ISM Band
Radio Technology	:	GFSK, π/4-DQPSK,8DPSK
Modulation Technology	:	GFSK, π/4-DQPSK,8DPSK modulation
Antenna	:	PCB antenna, met requirement of FCC 15.203

3.4.2. Tested Supporting System Details

3.4.2.1. Notebook

M/N	:	F83VF
S/N	:	AEN0AS64740305D
Manufacturer	:	ASUS
Power Cord	:	Unshielded, Detachabled, 1.5m , 3Pin
FCC ID	:	By DoC

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4.TEST ENVIRONMENT

4.1 Address of the test laboratory

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406

4.2 Test facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374A

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on June 6, 2011.

FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE CO., LTD, EMC Laboratory 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. Registration No.791995, July 13,2012.

4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- □ The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
	30MHz~300MHz	±3.14dB	(1)
Radiation emission (3m)	300MHz~1000MHz	±3.18dB	(1)
	1GHz~26.5GHz	±3.54dB	(1)

^{(1).} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5. Summary of standards and results

5.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION					
Description of Test Item	Standard	Results			
Conducted Emission Test	FCC Part 15 : 15.207 ANSI C63.4-2009	PASSED			
Radiated Emission Test	FCC Part 15 C: 15.249 FCC Part 15 : 109 ANSI C63.4-2009	PASSED			
20 dB Bandwidth test	FCC Part 15 C: 15.249 ANSI C63.4-2009	PASSED			
Band Edge Compliance Test	FCC Part 15 C: 15.249 ANSI C63.4-2009	PASSED			
N/A is an abbreviation for Not Applicable.					

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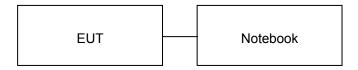


6. Power Line Conducted Emission Test

6.1.Test Equipment

Conduc	Conducted Disturbance							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.			
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2012/11			
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2012/11			
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/026	2012/11			
4	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2012/11			
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2012/11			

6.2. Block Diagram of Test Setup



(EUT: bluBOOM)

6.3. Power Line Conducted Emission Test Limits

Standard: RSS-Gen: 7.2.4, FCC Part 15: 15.207, ANSI C63.4-2009

		Maximum RF L	ine Voltage
Frequency		Quasi-Peak Level	Average Level
1 104401109		dB(μV)	dB(μV)
150kHz	~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz	~ 5MHz	56	46
5MHz	~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

6.4.Test Procedure

The XBOX Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#1). Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of AC line 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 FCC Part 15C on Conducted Emission Test.

6.5. Power Line Conducted Emission Test Results

PASSED.

The frequency range from 150KHz~30MHz is investigated. Please see the following pages.

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^{2.} The lower limit shall apply at the transition frequencies.

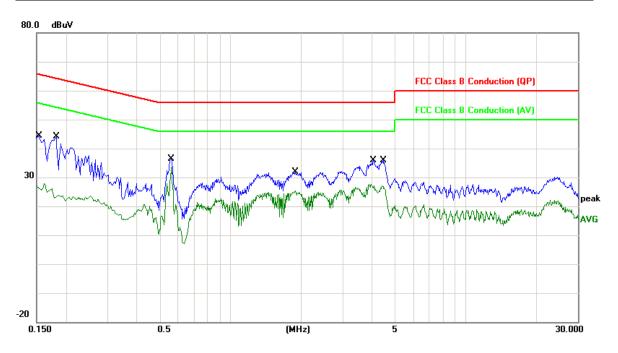




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Test point:	L	Result:	■ - passed
Frequency range:	0.15MHz~30MHz		☐ - not passed

EUT	bluBOOM
Firm Name	Triple C Designs
Operating Condition	Charging
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	06 June~12 July 2013
Operator	Duke
MODEL NO	ASN624



No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1540	9.78	26.35	36.13	65.78	-29.65	QP
2	0.1540	9.78	16.25	26.03	55.78	-29.75	AVG
3	0.1820	9.78	22.71	32.49	64.39	-31.90	QP
4	0.1820	9.78	12.72	22.50	54.39	-31.89	AVG
5	0.5620	9.84	24.87	34.71	56.00	-21.29	QP
6	0.5620	9.84	22.69	32.53	46.00	-13.47	AVG
7	1.8940	9.86	17.91	27.77	56.00	-28.23	QP
8	1.8940	9.86	13.69	23.55	46.00	-22.45	AVG
9	4.0660	9.91	21.19	31.10	56.00	-24.90	QP
10	4.0660	9.91	14.98	24.89	46.00	-21.11	AVG
11	4.4780	9.91	21.55	31.46	56.00	-24.54	QP
12	4.4780	9.91	15.09	25.00	46.00	-21.00	AVG
Remark:	Other frequen	icy mini ma	rgin all >10 dB	of Limit	•		

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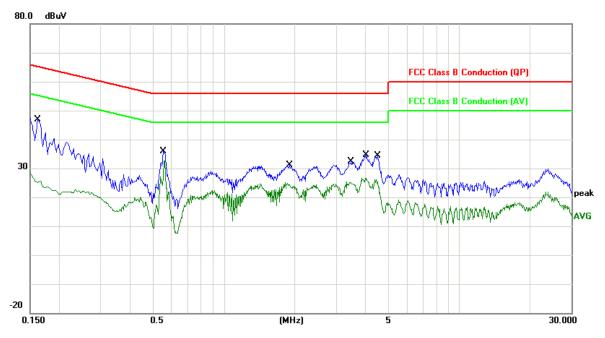
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Test point: N Result: ■ - passed □ - not passed



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1620	9.78	27.12	36.90	65.36	-28.46	QP
2	0.1620	9.78	14.47	24.25	55.36	-31.11	AVG
3	0.5540	9.84	23.58	33.42	56.00	-22.58	QP
4	0.5540	9.84	17.52	27.36	46.00	-18.64	AVG
5	1.9060	9.86	16.77	26.63	56.00	-29.37	QP
6	1.9060	9.86	13.23	23.09	46.00	-22.91	AVG
7	3.4860	9.90	18.51	28.41	56.00	-27.59	QP
8	3.4860	9.90	13.65	23.55	46.00	-22.45	AVG
9	4.0460	9.90	20.15	30.05	56.00	-25.95	QP
10	4.0460	9.90	14.23	24.13	46.00	-21.87	AVG
11	4.5020	9.91	19.30	29.21	56.00	-26.79	QP
12	4.5020	9.91	12.30	22.21	46.00	-23.79	AVG
Remark:	Other frequen	icy mini ma	rgin all >10 dB	of Limit			·

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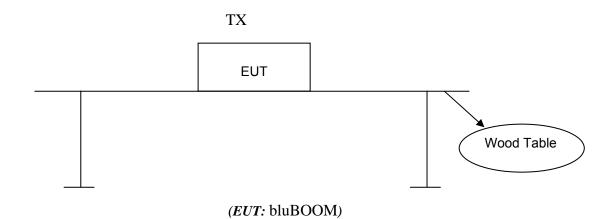
7. Radiated disturbance (electric field)

7.1.Test Equipment

Radia	Radiated disturbance (electric field)							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.			
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2012/11			
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2013/03			
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2013/03			
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2013/03			
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2013/03			
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2012/11			

7.2.Block Diagram of Test Setup

7.2.1 Block Diagram of connection between EUT and simulators



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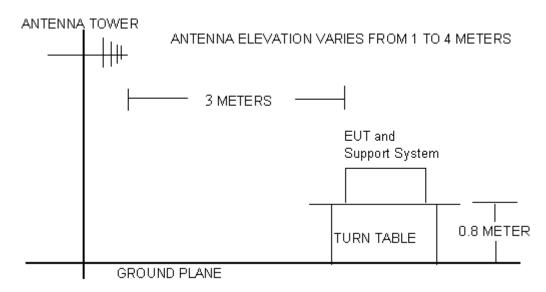
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7.2.2 Anechoic Chamber Setup Diagram



7.3. Radiated Emission Limit:

Standard: FCC 15.249, FCC 15.209.

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (µV/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

FRE	FREQUENCY		DISTANCE	FIELD STREN	GTHS LIMIT
	MHz		Meters	μV/m	dB(μV)/m
0.009	~	0.490	300	2400/F(kHz)	
0.490	~	1.705	30	24000/F(kHz)	
1.705	~	30	30	30	
30	~	88	3	100	40.0
88	~	216	3	150	43.5
216	~	960	3	200	46.0
960	~	1000	3	500	54.0
Λ.	Above 1000		2	Other:74.0 dB(µ	ιV)/m (Peak)
A			3	54.0 dB(μV)/m (Average)	

Remark:

- (1) Emission level $dB\mu V = 20 \log Emission level \mu V/m$
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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7.4.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 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 polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 2MHz RBW above 1GHz,

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 2MHz VBW above 1GHz, A average detector with 10Hz VBW above 1GHz

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

7.5. Radiated Emission Test Results

PASSED.

The frequency range from 9KHz~30MHz,30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

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Test Mode:	TX –X Position Mode	Result:	■ - passed
Frequency range:	9KHz~30MHz		☐ - not passed

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
Rem	Remark: The test result reading value is to low, margin all > 10dB of the limit.						

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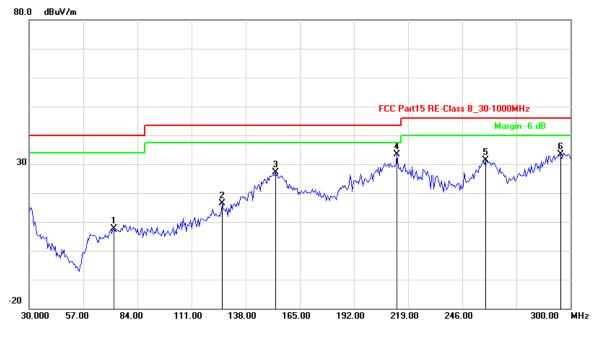


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Channel:	TX –X Position Mode Low 2402MHz	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	30MHz-26.5GHz		

EUT	bluBOOM
Firm Name	Triple C Designs
Operating Condition	Battery 3.7V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	06 June~12 July 2013
Operator	Duke
MODEL NO	ASN624

	No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
ſ	1	2402.00	-26.11	117.26	91.15	114.00	-22.85	Peak
	2	2402.00	-26.11	114.15	88.04	94.00	-5.96	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	72.2044	-22.39	30.03	7.64	40.00	-32.36	QP	
2	126.3126	-17.45	33.92	16.47	43.50	-27.03	QP	
3	152.8257	-17.79	44.95	27.16	43.50	-16.34	QP	
4	213.4269	-12.19	45.50	33.31	43.50	-10.19	QP	
5	257.7956	-12.65	43.91	31.26	46.00	-14.74	QP	
6	295.1303	-6.30	39.79	33.49	46.00	-12.51	QP	
Remark	Remark: Other frequency mini margin all >10 dB of Limit							

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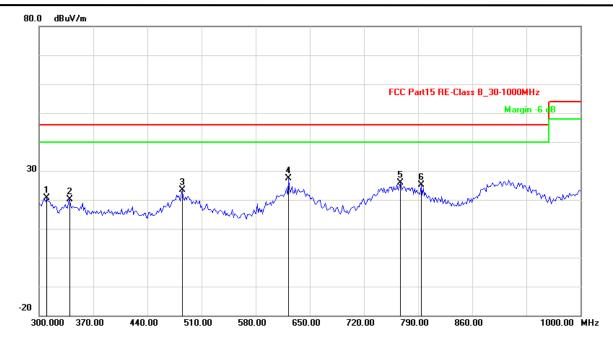
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	309.8196	-19.50	40.18	20.68	46.00	-25.32	QP		
2	339.2786	-13.29	33.37	20.08	46.00	-25.92	QP		
3	485.1703	-9.81	33.19	23.38	46.00	-22.62	QP		
4	622.6453	-7.14	34.63	27.49	46.00	-18.51	QP		
5	767.1343	-5.65	31.41	25.76	46.00	-20.24	QP		
6	793.7876	-7.71	32.72	25.01	46.00	-20.99	QP		
Remark	Remark: Other frequency mini margin all >10 dB of Limit								

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	2851.703	5.76	42.54	48.30	74.00	-25.70	peak		
2	2851.703	5.76	27.56	33.32	54.00	-20.68	AVG		
3	3777.555	9.10	38.50	47.60	74.00	-26.40	peak		
4	3777.555	9.10	23.05	32.15	54.00	-21.85	AVG		
5	4901.804	11.93	36.52	48.45	74.00	-25.55	peak		
6	4901.804	11.93	21.53	33.46	54.00	-20.54	AVG		
7	5607.214	14.12	37.13	51.25	74.00	-22.75	peak		
8	5607.214	14.12	22.00	36.12	54.00	-17.88	AVG		
9	5915.832	15.11	39.09	54.20	74.00	-19.80	peak		
10	5915.832	15.11	25.05	40.16	54.00	-13.84	AVG		
11	7525.050	18.53	36.87	55.40	74.00	-18.60	peak		
12	7525.050	18.53	22.32	40.85	54.00	-13.15	AVG		
Remark	Remark: Other frequency mini margin all >10 dB of Limit								

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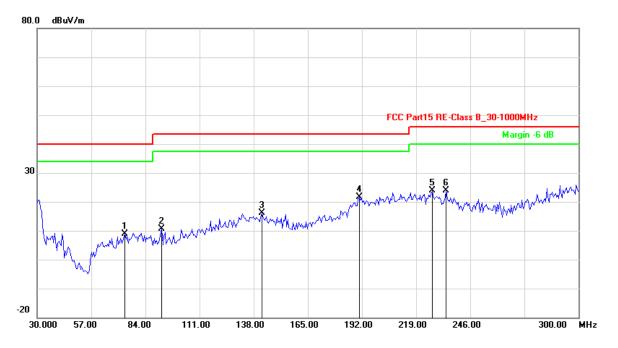




Channel: TX –X Position Mode Low 2402MHz
Test point: Vertical
Frequency range: 30MHzHz-26.5GHz

Result: □ - passed
□ - not passed

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2402.00	-26.11	119.44	93.33	114.00	-20.48	Peak
2	2402.00	-26.11	116.45	90.34	94.00	-3.66	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	73.8277	-21.84	30.81	8.97	40.00	-31.03	QP	
2	92.2244	-22.89	33.48	10.59	43.50	-32.91	QP	
3	142.0040	-16.57	32.73	16.16	43.50	-27.34	QP	
4	190.7014	-12.06	33.73	21.67	43.50	-21.83	QP	
5	226.9539	-12.37	36.19	23.82	46.00	-22.18	QP	
6	233.9880	-12.66	36.50	23.84	46.00	-22.16	QP	
Remark:	Remark: Other frequency mini margin all >10 dB of Limit							

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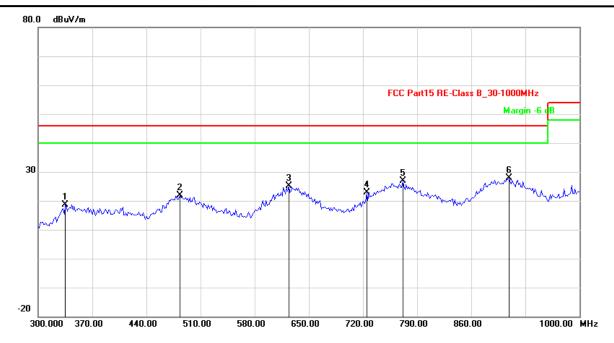
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	335.0701	-14.31	33.06	18.75	46.00	-27.25	QΡ	
2	483.7675	-9.78	31.71	21.93	46.00	-24.07	QP	
3	624.0481	-7.18	32.38	25.20	46.00	-20.80	QP	
4	725.0501	-10.12	33.05	22.93	46.00	-23.07	QP	
5	771.3427	-5.75	32.69	26.94	46.00	-19.06	QP	
6	908.8176	-4.18	31.97	27.79	46.00	-18.21	QP	
Remark:	Remark: Other frequency mini margin all >10 dB of Limit							

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	1308.617	-3.05	44.10	41.05	74.00	-32.95	peak		
2	1308.617	-3.05	29.42	26.37	54.00	-27.63	AVG		
3	2388.778	2.68	40.08	42.76	74.00	-31.24	peak		
4	2388.778	2.68	25.01	27.69	54.00	-26.31	AVG		
5	3138.277	7.04	41.02	48.06	74.00	-25.94	peak		
6	3138.277	7.04	26.61	33.65	54.00	-20.35	AVG		
7	3557.114	8.39	40.35	48.74	74.00	-25.26	peak		
8	3557.114	8.39	24.63	33.02	54.00	-20.98	AVG		
9	4835.671	11.77	36.55	48.32	74.00	-25.68	peak		
10	4835.671	11.77	21.37	33.14	54.00	-20.86	AVG		
11	7635.271	18.68	36.88	55.56	74.00	-18.44	peak		
12	7635.271	18.68	22.17	40.85	54.00	-13.15	AVG		
Remark:	Remark: Other frequency mini margin all >10 dB of Limit								

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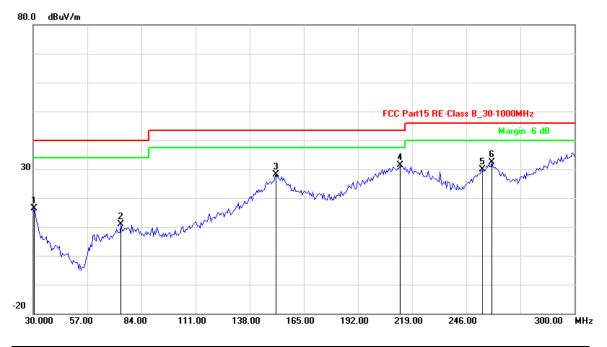


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CENTRE	OF LEGIL	ING SERVICE

Channel:	TX –X Position Mode Middle 2441MHz	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	30MHz-26.5GHz		

EUT	bluBOOM
Firm Name	Triple C Designs
Operating Condition	Battery 3.7V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	06 June~12 July 2013
Operator	Duke
MODEL NO	ASN624

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2441.00	-25.95	117.21	91.26	114.00	-22.74	Peak
2	2441.00	-25.95	115.19	89.24	94.00	-4.76	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	30.5411	-18.94	35.21	16.27	40.00	-23.73	QP	
2	73.8277	-21.84	32.60	10.76	40.00	-29.24	QP	
3	151.2024	-17.53	45.69	28.16	43.50	-15.34	QP	
4	212.8858	-12.17	43.51	31.34	43.50	-12.16	QP	
5	254.0080	-12.71	42.50	29.79	46.00	-16.21	QP	
6	258.8778	-12.64	44.93	32.29	46.00	-13.71	QP	
Remark:	Remark: Other frequency mini margin all >10 dB of Limit							

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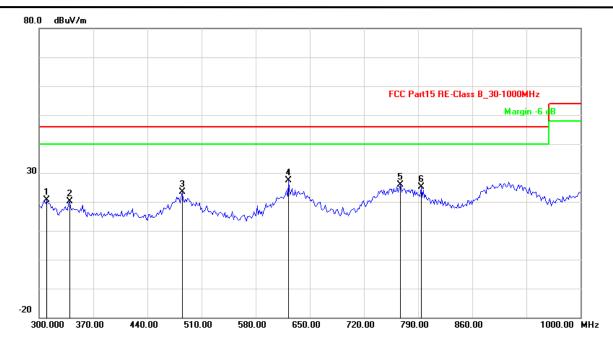
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	309.8196	-19.50	40.18	20.68	46.00	-25.32	QP	
2	339.2786	-13.29	33.37	20.08	46.00	-25.92	QP	
3	485.1703	-9.81	33.19	23.38	46.00	-22.62	QP	
4	622.6453	-7.14	34.63	27.49	46.00	-18.51	QP	
5	767.1343	-5.65	31.41	25.76	46.00	-20.24	QP	
6	793.7876	-7.71	32.72	25.01	46.00	-20.99	QP	
Remark	Remark: Other frequency mini margin all >10 dB of Limit							

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	3380.762	7.82	39.91	47.73	74.00	-26.27	peak		
2	3380.762	7.82	24.54	32.36	54.00	-21.64	AVG		
3	4615.230	11.26	36.48	47.74	74.00	-26.26	peak		
4	4615.230	11.26	21.76	33.02	54.00	-20.98	AVG		
5	5651.303	14.26	38.91	53.17	74.00	-20.83	peak		
6	5651.303	14.26	24.48	38.74	54.00	-15.26	AVG		
7	7525.050	18.53	35.60	54.13	74.00	-19.87	peak		
8	7525.050	18.53	21.11	39.64	54.00	-14.36	AVG		
9	8164.329	19.65	38.21	57.86	74.00	-16.14	peak		
10	8164.329	19.65	22.93	42.58	54.00	-11.42	AVG		
11	9068.136	22.15	36.10	58.25	74.00	-15.75	peak		
12	9068.136	22.15	21.50	43.65	54.00	-10.35	AVG		
Remark	Remark: Other frequency mini margin all >10 dB of Limit								

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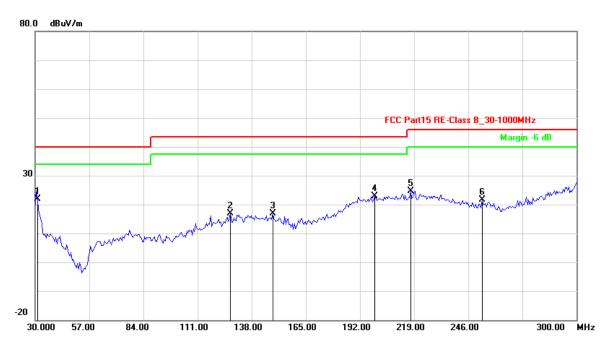




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Channel:	TX –X Position Mode Middle 2441MHz	Result:	■ - passed
Test point:	Vertical		☐ - not passed
Frequency range:	30MHzHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2441.00	-25.95	118.47	92.52	114.00	-21.48	Peak
2	2441.00	-25.95	116.30	90.35	94.00	-3.65	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	31.0822	-19.43	41.33	21.90	40.00	-18.10	QP	
2	127.3948	-17.34	34.17	16.83	43.50	-26.67	QP	
3	148.4970	-17.20	34.09	16.89	43.50	-26.61	QP	
4	199.3587	-12.62	35.42	22.80	43.50	-20.70	QP	
5	217.2144	-12.33	37.04	24.71	46.00	-21.29	QP	
6	252.9259	-12.73	34.37	21.64	46.00	-24.36	QP	
Remark:	Remark: Other frequency mini margin all >10 dB of Limit							

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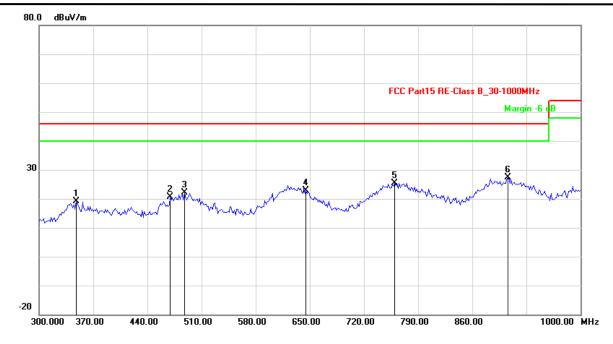
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	347.6954	-13.41	32.59	19.18	46.00	-26.82	QP	
2	469.7395	-11.56	32.13	20.57	46.00	-25.43	QP	
3	487.9760	-9.88	32.12	22.24	46.00	-23.76	QP	
4	645.0902	-8.43	31.38	22.95	46.00	-23.05	QP	
5	760.1202	-5.49	30.98	25.49	46.00	-20.51	QP	
6	906.0120	-4.09	31.45	27.36	46.00	-18.64	QP	
Remark	Remark: Other frequency mini margin all >10 dB of Limit							

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1066.132	-5.17	47.35	42.18	74.00	-31.82	peak
2	1066.132	-5.17	32.81	27.64	54.00	-26.36	AVG
3	3138.277	7.04	41.22	48.26	74.00	-25.74	peak
4	3138.277	7.04	26.22	33.26	54.00	-20.74	AVG
5	4571.142	11.15	36.64	47.79	74.00	-26.21	peak
6	4571.142	11.15	21.01	32.16	54.00	-21.84	AVG
7	5849.699	14.90	38.48	53.38	74.00	-20.62	peak
8	5849.699	14.90	24.95	39.85	54.00	-14.15	AVG
9	7613.227	18.65	36.40	55.05	74.00	-18.95	peak
10	7613.227	18.65	21.37	40.02	54.00	-13.98	AVG
11	8120.241	19.53	37.55	57.08	74.00	-16.92	peak
12	8120.241	19.53	23.05	42.58	54.00	-11.42	AVG
Remark	: Other frequen	cv mini ma	rgin all >10 dB	of Limit	•		•

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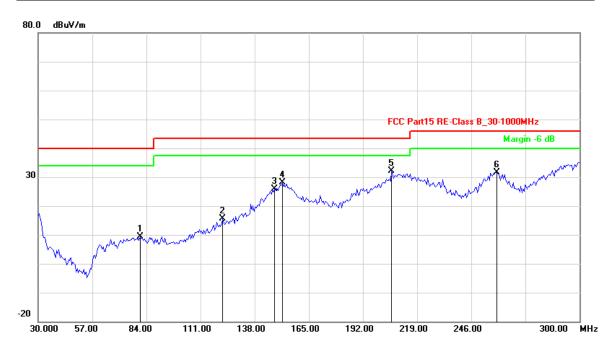


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Channel:	TX –X Position Mode High 2480MHz	Result:	■ - passed
Test point:	Horizontal		☐ - not passed
Frequency range:	30MHz-26.5GHz		

EUT	bluBOOM
Firm Name	Triple C Designs
Operating Condition	Battery 3.7V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	06 June~12 July 2013
Operator	Duke
MODEL NO	ASN624

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2480.00	-25.13	117.15	92.02	114.00	-21.98	Peak
2	2480.00	-25.13	110.28	88.15	94.00	-5.15	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	80.8617	-21.60	31.06	9.46	40.00	-30.54	QP	
2	121.9840	-17.92	33.61	15.69	43.50	-27.81	QP	
3	147.9559	-17.14	42.95	25.81	43.50	-17.69	QP	
4	151.7435	-17.62	45.87	28.25	43.50	-15.25	QP	
5	206.3928	-12.28	44.41	32.13	43.50	-11.37	QP	
6	258.8778	-12.64	44.35	31.71	46.00	-14.29	QP	
Remark:	Remark: Other frequency mini margin all >10 dB of Limit							

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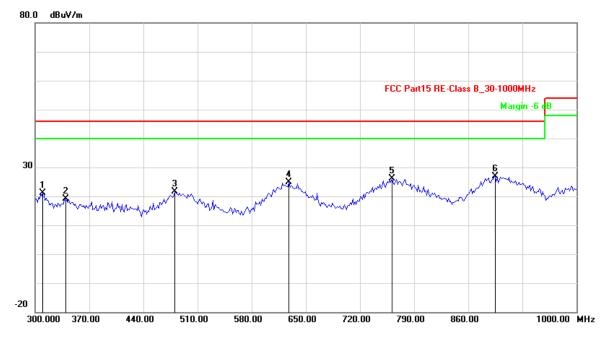
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	309.8196	-19.50	40.51	21.01	46.00	-24.99	QP	
2	339.2786	-13.29	32.39	19.10	46.00	-26.90	QP	
3	480.9619	-9.71	31.23	21.52	46.00	-24.48	QP	
4	628.2565	-7.29	32.28	24.99	46.00	-21.01	QP	
5	761.5230	-5.53	31.73	26.20	46.00	-19.80	QP	
6	894.7896	-4.18	31.08	26.90	46.00	-19.10	QP	
Remark:	Remark: Other frequency mini margin all >10 dB of Limit							

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3028.056	6.69	40.91	47.60	74.00	-26.40	peak
2	3028.056	6.69	25.37	32.06	54.00	-21.94	AVG
3	3689.379	8.81	38.90	47.71	74.00	-26.29	peak
4	3689.379	8.81	23.84	32.65	54.00	-21.35	AVG
5	5430.862	13.55	37.97	51.52	74.00	-22.48	peak
6	5430.862	13.55	22.41	35.96	54.00	-18.04	AVG
7	6070.140	15.55	39.04	54.59	74.00	-19.41	peak
8	6070.140	15.55	24.47	40.02	54.00	-13.98	AVG
9	7569.138	18.59	35.93	54.52	74.00	-19.48	peak
10	7569.138	18.59	21.56	40.15	54.00	-13.85	AVG
11	8186.373	19.72	36.91	56.63	74.00	-17.37	peak
12	8186.373	19.72	21.64	41.36	54.00	-12.64	AVG
Remark:	Other frequen	icy mini ma	rgin all >10 dB	of Limit			·

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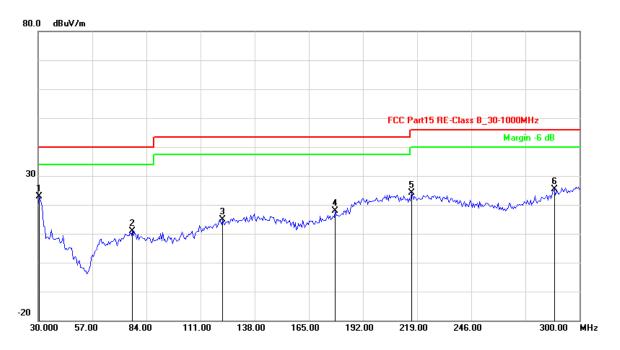






Channel:	TX –X Position Mode High 2480MHz	Result:	■ - passed
Test point:	Vertical		☐ - not passed
Frequency range:	30MHzHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2480.00	-25.13	114.45	92.32	114.00	-21.68	Peak
2	2480.00	-25.13	112.34	90.22	94.00	-3.78	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	30.5411	-18.94	41.94	23.00	40.00	-17.00	QP	
2	77.0741	-21.43	32.43	11.00	40.00	-29.00	QP	
3	121.9840	-17.92	32.86	14.94	43.50	-28.56	QP	
4	178.2565	-15.74	33.71	17.97	43.50	-25.53	QP	
5	216.1323	-12.29	36.45	24.16	46.00	-21.84	QP	
6	287.5551	-7.62	32.89	25.27	46.00	-20.73	QP	
Remark:	Remark: Other frequency mini margin all >10 dB of Limit							

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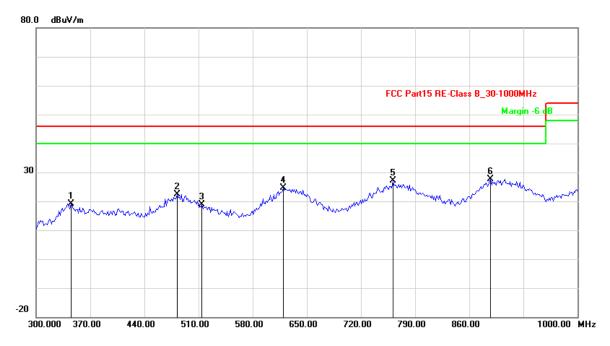
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	344.8898	-13.30	32.38	19.08	46.00	-26.92	QP	
2	482.3647	-9.75	32.10	22.35	46.00	-23.65	QP	
3	514.6293	-12.36	31.25	18.89	46.00	-27.11	QP	
4	619.8397	-7.10	31.61	24.51	46.00	-21.49	QP	
5	761.5230	-5.53	32.73	27.20	46.00	-18.80	QP	
6	887.7756	-4.55	32.24	27.69	46.00	-18.31	QP	
Remark:	Remark: Other frequency mini margin all >10 dB of Limit							

Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	2851.703	5.76	41.85	47.61	74.00	-26.39	peak		
2	2851.703	5.76	26.60	32.36	54.00	-21.64	AVG		
3	3689.379	8.81	39.31	48.12	74.00	-25.88	peak		
4	3689.379	8.81	24.24	33.05	54.00	-20.95	AVG		
5	5607.214	14.12	36.88	51.00	74.00	-23.00	peak		
6	5607.214	14.12	22.03	36.15	54.00	-17.85	AVG		
7	6378.758	16.30	39.04	55.34	74.00	-18.66	peak		
8	6378.758	16.30	23.82	40.12	54.00	-13.88	AVG		
9	7503.006	18.50	36.43	54.93	74.00	-19.07	peak		
10	7503.006	18.50	21.53	40.03	54.00	-13.97	AVG		
11	8120.241	19.53	36.47	56.00	74.00	-18.00	peak		
12	8120.241	19.53	21.73	41.26	54.00	-12.74	AVG		
Remark	Remark: Other frequency mini margin all >10 dB of Limit								

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9. Band Edge Compliance test

9.1. Test Equipment

Band Edge Co	Band Edge Compliance test							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.			
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2012/11			
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2013/03			
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2013/03			

9.2. Test Information

EUT	bluBOOM
Firm Name	Triple C Designs
Operating Condition	Battery 3.7V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	06 June~12 July 2013
Operator	Duke
MODEL NO	ASN624

9.3. Test procedure

- 1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setp 1,and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

9.4. Test Results

PASSED.

The EUT operates at hopping-off test mode. The lowest and highest channels are tested to verify the band edge emissions.

Test Mode	Channel	Test Result Highest Emission (dBuv/m)				
	Marked Frequency	Horizontal Vertical				
		Peak	Average	Peak	Average	
Low Channel	2390MHz	39.83	28.75	38.88	29.38	
Low Channel	2400MHz	68.95	62.47	69.66	66.09	
High Channel	2483.5MHz	51.26	47.37	54.12	49.91	
	2500MHz	38.16	28.11	39.78	28.36	

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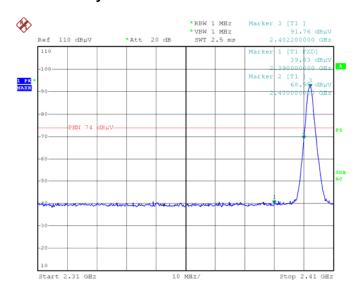
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Band Edges(CH Low) Detector mode:Peak

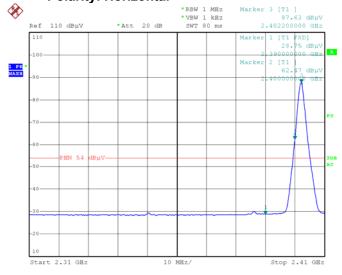
Polarity:Horizontal



Date: 11.JUL.2013 22:36:15

Band Edges(CH Low) Detector mode: Average

Polarity: Horizontal



Date: 11.JUL.2013 22:36:51

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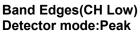
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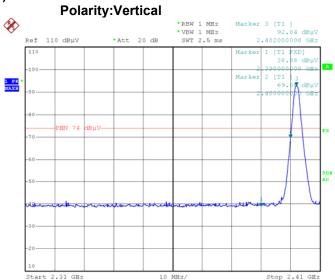
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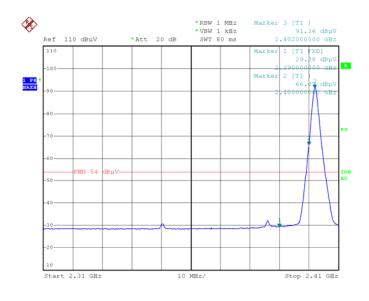




Date: 11.JUL.2013 22:39:41

Band Edges(CH Low) Detector mode:Average

Polarity:Vertical



Date: 11.JUL.2013 22:37:50

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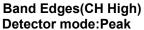
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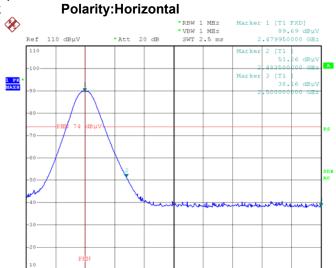
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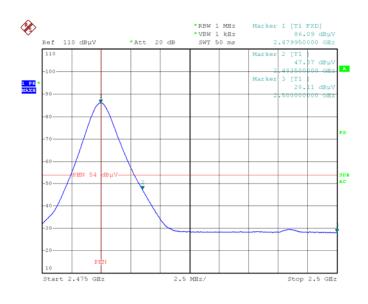
Date: 11.JUL.2013 22:34:44

Start 2.475 GHz

Band Edges(CH High) Detector mode:Average

Polarity:Horizontal

Stop 2.5 GHz



Date: 11.JUL.2013 22:34:13

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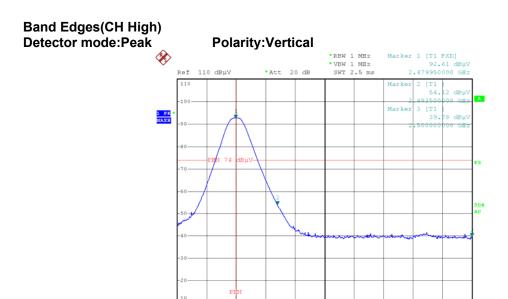
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Date: 11.JUL.2013 22:32:53

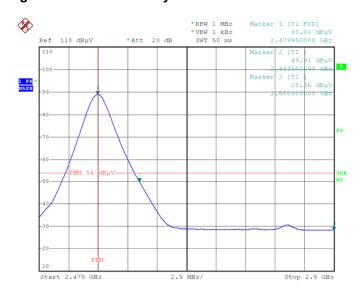
Start 2.475 GHz

Band Edges(CH High) Detector mode:Average

Polarity:Vertical

2.5 MHz/

Stop 2.5 GHz



Date: 11.JUL.2013 22:33:36

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10. 20 dB Bandwidth test

10.1. Test Equipment

20 dB Bandwidth test								
Item	Test Equipment	Manufacturer Model No. Seria		Serial No.	Last Cal.			
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2011/12			
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2013/03			
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2013/03			

10.2. Test Information

EUT	bluBOOM	
Firm Name	Triple C Designs	
Operating Condition	Battery 3.7V	
Test Condition	Ambient Temperature: 25°C Humidity: 56%	
Test distance	3 Meter	
Test Date:	06 June~12 July 2013	
Operator	Duke	
MODEL NO	ASN624	

10.3. Test Results

PASSED.

The testing data was attached in the next pages.

Channel		Frequency (MHz)	20dB Bandwidth (MHz)
Low		2402	0.792
Middle	GFSK 1M	2441	0.792
High		2480	0.786
Low		2402	0.780
Middle	π/4-DQPSK 2M	2441	0.780
High		2480	0.786
Low		2402	0.792
Middle	8DPSK 3M	2441	0.780
High	J	2480	0.786

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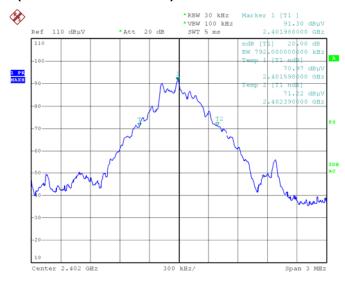
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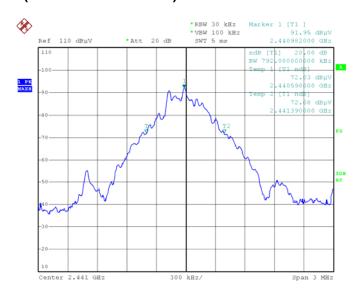


20 dB Bandwidth (2402 MHz GFSK 1M)



Date: 12.JUL.2013 13:37:33

20 dB Bandwidth (2441MHz GFSK 1M)



Date: 12.JUL.2013 13:32:05

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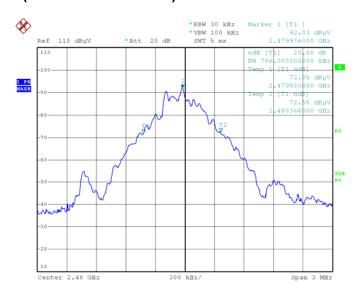
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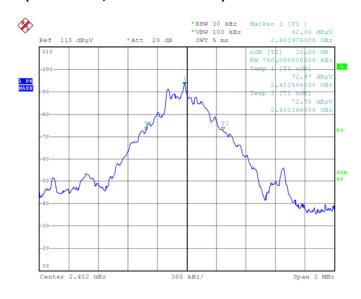


20 dB Bandwidth (2480MHz GFSK 1M)



Date: 12.JUL.2013 13:59:59

20 dB Bandwidth (2402 MHz,π/4-DQPSK 2M)



Date: 12.JUL.2013 13:47:30

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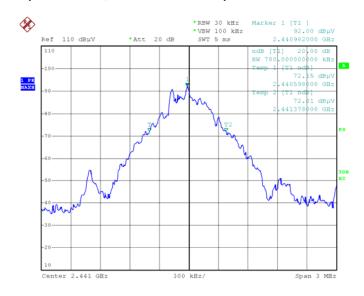
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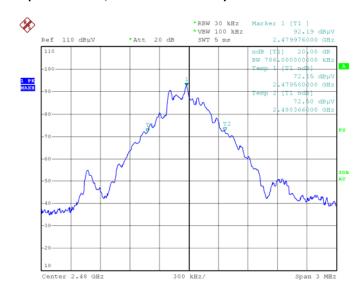


20 dB Bandwidth (2441 MHz,π/4-DQPSK 2M)



Date: 12.JUL.2013 13:31:15

20 dB Bandwidth (2480 MHz,π/4-DQPSK 2M)



Date: 12.JUL.2013 13:58:43

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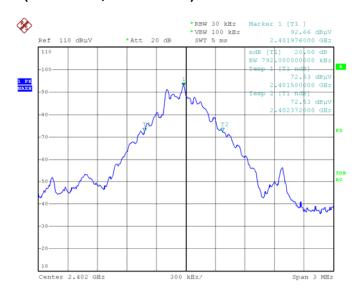
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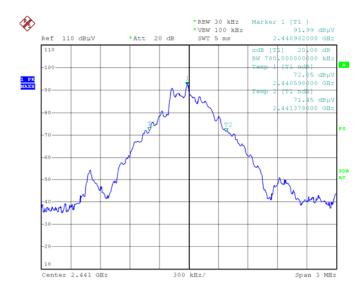


20 dB Bandwidth (2402 MHz, 8DPSK 3M)



Date: 12.JUL.2013 13:48:41

20 dB Bandwidth (2441 MHz, 8DPSK 3M)



Date: 12.JUL.2013 13:30:07

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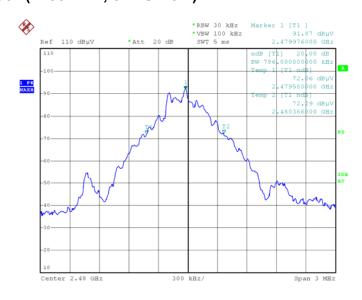
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20 dB Bandwidth (2480 MHz, 8DPSK 3M)



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11. Deviation to test specifications

The following identical model(s):

N/A

Belong to the tested device:

Product description: bluBOOM Model name: ASN624

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