

Prüfbericht-Nr.: <i>Test Report No.:</i>	17047317 001	Auftrags-Nr.: <i>Order No.:</i>	164030100	Seite 1 von 30 Page 1 of 30	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	03.02.2015		
Auftraggeber: <i>Client:</i>	GODOX PHOTO EQUIPMENT CO. LTD, 19th Floor, Room 1902, Building Jinshan, 5033 Shennan East Road, Luohu District, Shenzhen 518001, China				
Prüfgegenstand: <i>Test item:</i>	Remote Control				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	RM-DVL308C2				
Auftrags-Inhalt: <i>Order content:</i>	FCC Certification				
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.231 RSS-210 Issue 8 December 2010 RSS-102 Issue 5 March 2015	CFR47 FCC Part 15: Subpart C Section 15.209 RSS-Gen Issue 4 December 2014 FCC KDB Publication 447498 v05r01			
Wareneingangsdatum: <i>Date of receipt:</i>	15.02.2015				
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000230839-001				
Prüfzeitraum: <i>Testing period:</i>	17.02.2015 - 10.03.2015				
Ort der Prüfung: <i>Place of testing:</i>	Audix Technology (Shenzhen) Co., Ltd.				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by:		kontrolliert von / reviewed by:			
22.07.2015	Owen Tian/Senior Project Manager	22.07.2015	Sam Lin/Technical Certifier		
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other:					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet	5 = mangelhaft
Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested	5 = poor
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

TEST SUMMARY

5.1.1 TYPES OF MOMENTARY SIGNALS

RESULT: Pass

5.1.2 FIELD STRENGTH OF EMISSION

RESULT: Pass

5.1.3 20dB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

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1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Audix Technology (Shenzhen) Co., Ltd.

(FCC Registration No.: 90454)

(Test site Industry Canada No.: 5183A-1)

No. 6, Ke Feng Road, Block 52, Shenzhen Science & Industry Park Nantou,
Shenzhen, Guangdong, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Transmitter spurious emissions (30MHz – 1GHz)				
3#Chamber	AUDIX	N/A	N/A	2015-11-22
EMI Spectrum	Agilent	E4407B	MY41440292	2015-04-27
Test Receiver	Rohde & Schwarz	ESVS10	834468/011	2015-04-27
Amplifier	HP	8447D	2648A04738	2015-04-27
Bilog Antenna	TESEQ	CBL6112D	35375	2015-06-17
RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	2015-04-27
Coaxial Switch	Anritsu	MP59B	6200313662	2015-04-27
Test Software	AUDIX	E3	6.2009-5-21a(n)	N/A
Transmitter spurious emissions (1 – 5GHz)				
3#Chamber	AUDIX	N/A	N/A	2015-11-01
Spectrum Analyzer	Agilent	E4407B	MY41440292	2015-04-27
Horn Antenna	ETS	3115	9607-4877	2015-09-19
Amplifier	Agilent	8449B	3008A00863	2015-04-27
RF Cable	Hubersuhner	SUCOFLEX106	77977/6	2015-04-27
RF Cable	Hubersuhner	SUCOFLEX106	28616/2	2015-04-27
MPEG2 Measurement Generator	Rohde & Schwarz	DVG	100319	2015-10-28
TV Transmitter	Rohde & Schwarz	SFQ	100521	2015-04-27
Pattern Generator	Philips	PM5418	LO625020	2015-04-27
Test Software	AUDIX	E3	6.2009-5-21a(n)	N/A
Radio Spectrum Test				
Spectrum Analyzer	Agilent	N9030A	MY51380221	2015-10-28

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Spectrum	< ± 0.8 dB
Radiated emission of transmitter, 30M - 1GHz	< ± 3.5 dB
Radiated emission of transmitter, 1 - 5GHz	< ± 5.0 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

Audix Technology (Shenzhen) Co., Ltd. test facility located at No. 6, Ke Feng Road, Block 52, Shenzhen Science & Industry Park Nantou, Shenzhen, Guangdong, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT is remote controller used with LED video light.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	Remote Control
Type Designation	RM-DVL308C2
Operating Frequency band	433.92MHz
Number of Channel	1
Modulation	ASK
Extreme Temperature Range	-10~+50°C
Operation Voltage	DC 3V (2 x 'AAA' size battery)
Antenna Gain	0dBi

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, transmitting
- B. Standby
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003. The model name was remarked as 'RC-A5' during testing, however the final model name is 'RM-DVL308C2'.

4.3 Special Accessories and Auxiliary Equipment

None.

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

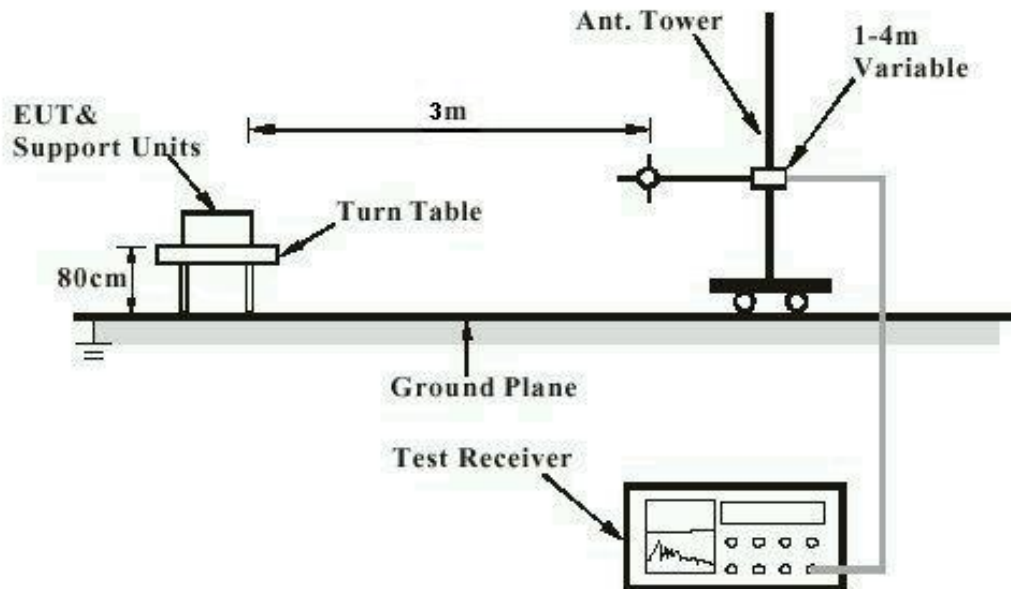
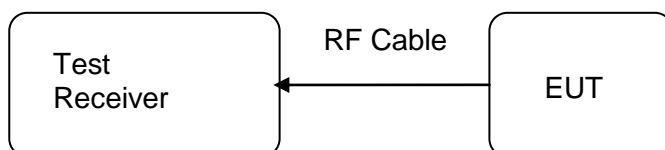


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Types of Momentary Signals

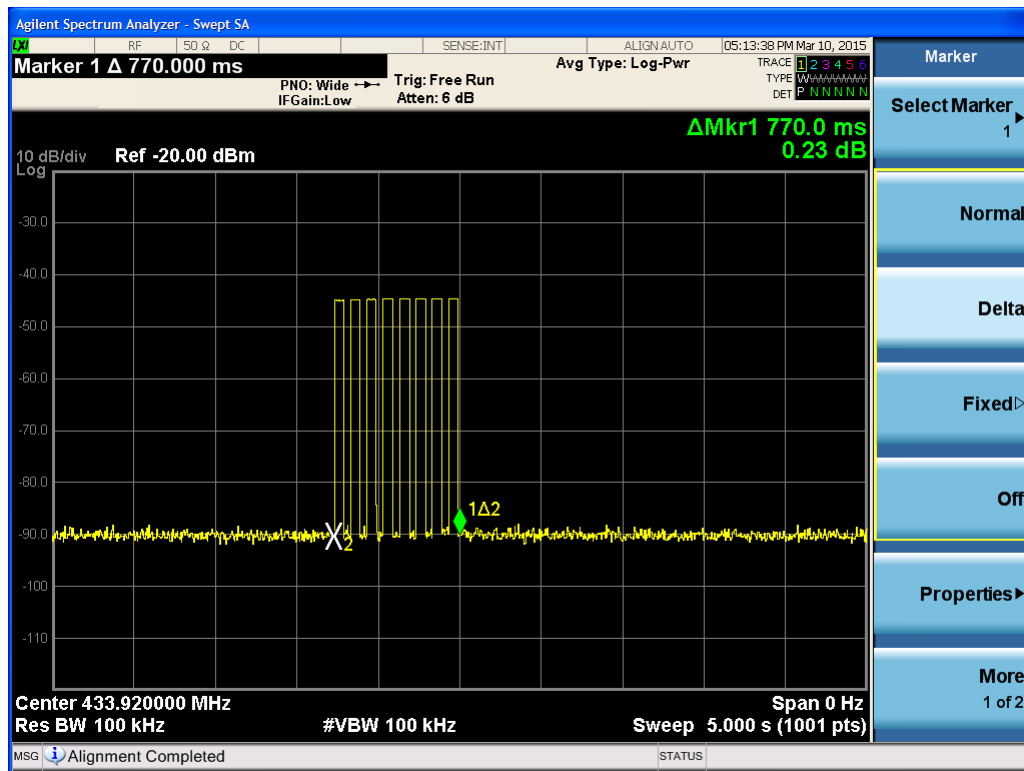
RESULT:**Pass**

Test standard	:	FCC Part 15.231 (a) (1) RSS-210 A1.1.1 (a) (1)
Basic standard	:	ANSI C63.4: 2003
Limit	:	≤ 5s
Kind of test site	:	Shielded room

Test setup

Test date	:	2015-03-10
Operation mode	:	A
Ambient temperature	:	24.5°C
Relative humidity	:	64%
Atmospheric pressure	:	101kPa

For details refer to following test plot.



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5.1.2 Field Strength of Emission

RESULT:**Pass**

Test standard : FCC part 15.231 (b)
RSS-210 A1.1.2
Basic standard : ANSI C63.4: 2003
Limits : FCC part 15.231(b)
Table A of RSS-210 A1.1
Kind of test site : 3m Semi-Anechoic Chamber

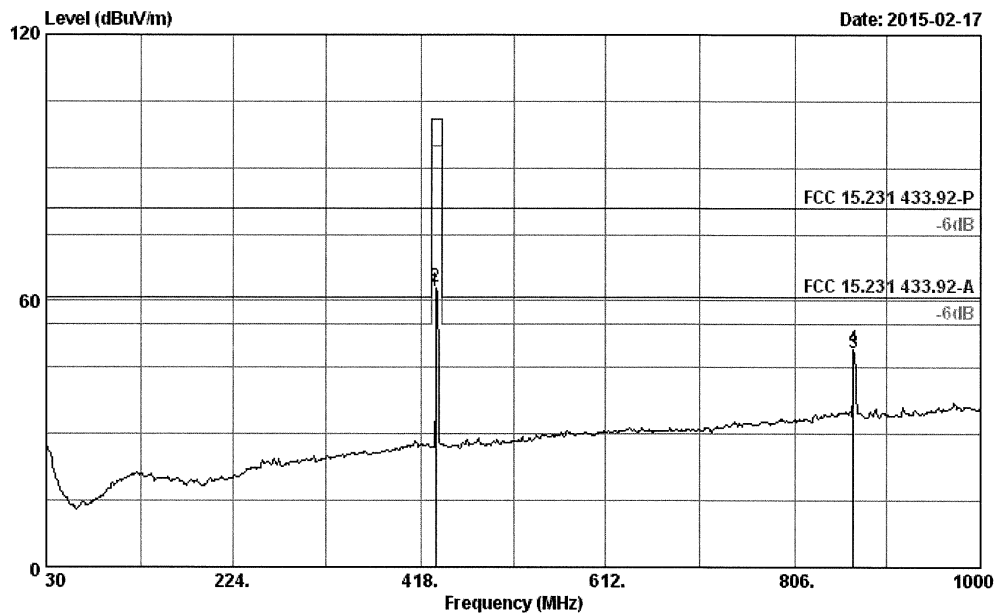
Test setup

Date of testing : 2015-03-07
Operation mode : A
Ambient temperature : 24.5°C
Relative humidity : 64%
Atmospheric pressure : 101kPa

For details refer to following test plot.



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Data: 3
File: E:\2015 Test Data\TUV\20150217.EM6 (10)
Date: 2015-02-17


Site no. : 3m Chamber	Data no. : 3
Dis. / Ant. : 3m 2014 CBL6112D 35375	Ant. pol. : HORIZONTAL
Limit : FCC 15.231 433.92-P	
Env. / Ins. : 24.5°C/64%	Engineer : Leo-Li
EUT : Transmitter	
Power rating : DC 3V	
Test Mode : Tx Mode	
M/N : RC-A5	

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	433.920	17.10	2.96	70.02	62.23	80.83	18.60	Average
2	433.920	17.10	2.96	71.00	63.21	100.83	37.62	Peak
3	867.840	21.80	4.75	49.44	48.40	60.83	12.43	Average
4	867.840	21.80	4.75	50.44	49.40	80.83	31.43	Peak

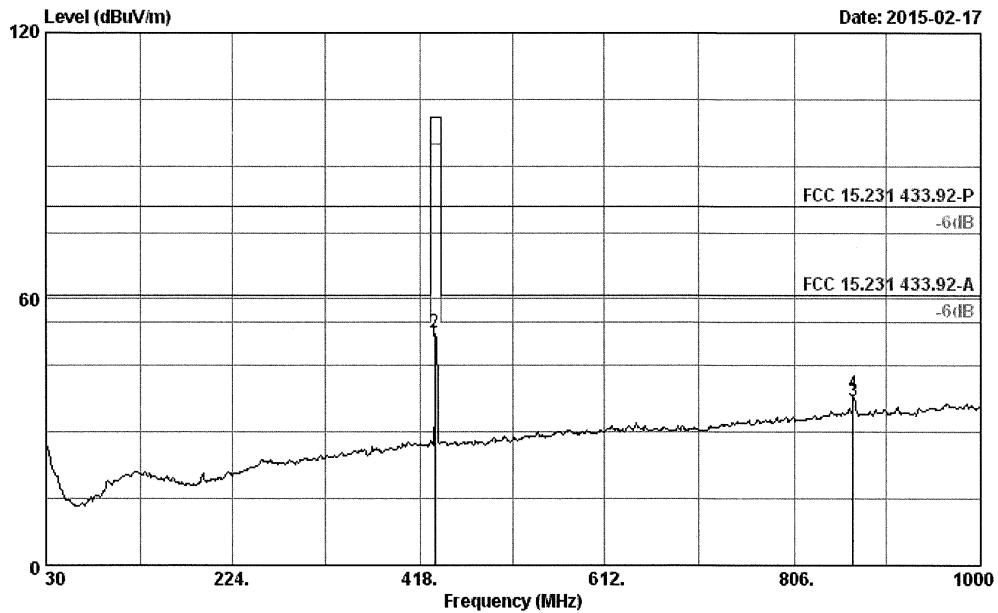
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 4 File: E:\2015 Test Data\TUV\20150217.EM6 (10)

Date: 2015-02-17



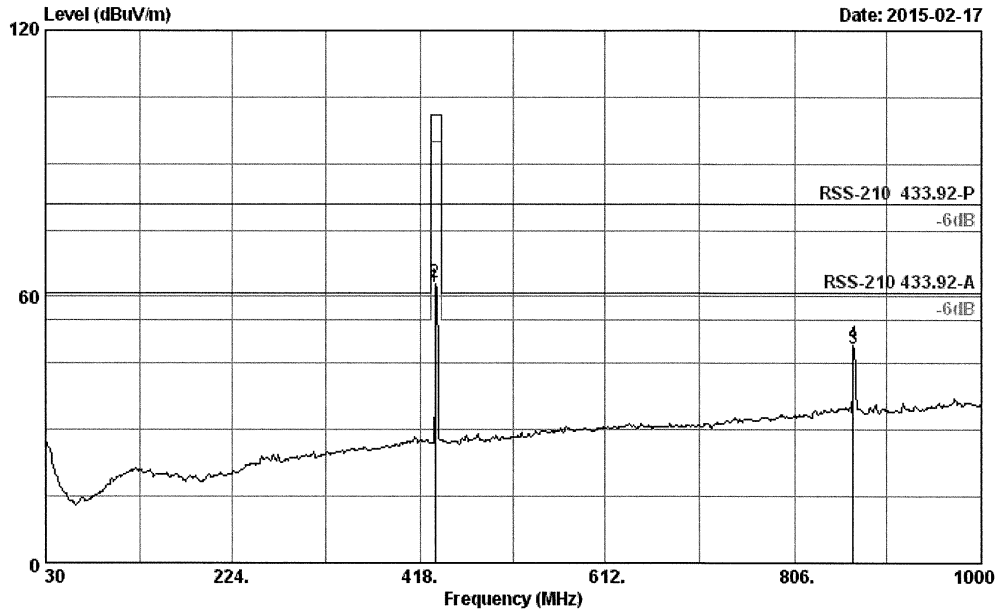
Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2014 CBL6112D 35375 Ant. pol. : VERTICAL
 Limit : FCC 15.231 433.92-P
 Env. / Ins. : 24.5°C/64% Engineer : Leo-Li
 EUT : Transmitter
 Power rating: DC 3V
 Test Mode : Tx Mode
 M/N : RC-A5

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	433.920	17.10	2.96	58.17	50.38	80.83	30.45	Average
2	433.920	17.10	2.96	60.20	52.41	100.83	48.42	Peak
3	867.840	21.80	4.75	38.25	37.21	60.83	23.62	Average
4	867.840	21.80	4.75	39.73	38.69	80.83	42.14	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.


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Data: 5 File: E:\2015 Test Data\TUV\20150217.EM6 (10) Date: 2015-02-17



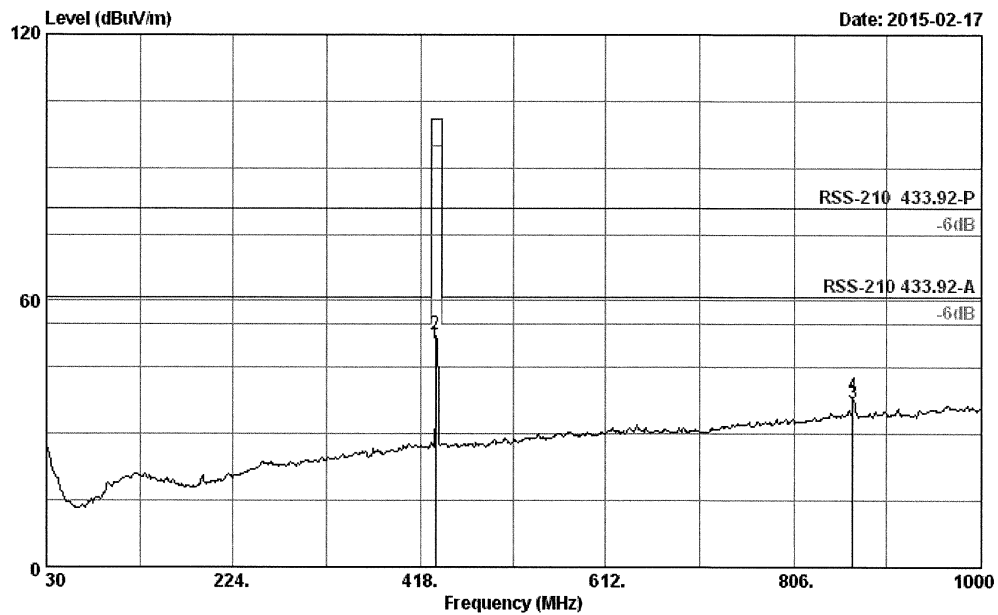
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Dis. / Ant.	: 3m 2014 CBL6112D 35375	Ant. pol.	: HORIZONTAL
Limit	: RSS-210 433.92-P		
Env. / Ins.	: 24.5°C/64%	Engineer	: Leo-Li
EUT	: Transmitter		
Power rating	: DC 3V		
Test Mode	: Tx Mode		
M/N	: RC-A5		

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	433.920	17.10	2.96	70.02	62.23	80.83	18.60	Average
2	433.920	17.10	2.96	71.00	63.21	100.83	37.62	Peak
3	867.840	21.80	4.75	49.44	48.40	60.83	12.43	Average
4	867.840	21.80	4.75	50.44	49.40	80.83	31.43	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.


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Data: 6 File: E:\2015 Test Data\TUV\20150217.EM6 (10)



Site no. : 3m Chamber	Data no. : 6
Dis. / Ant. : 3m 2014 CBL6112D 35375	Ant. pol. : VERTICAL
Limit : RSS-210 433.92-P	
Env. / Ins. : 24.5°C/64%	Engineer : Leo-Li
EUT : Transmitter	
Power rating : DC 3V	
Test Mode : Tx Mode	
M/N : RC-A5	

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	433.920	17.10	2.96	58.17	50.38	80.83	30.45	Average
2	433.920	17.10	2.96	60.20	52.41	100.83	48.42	Peak
3	867.840	21.80	4.75	38.25	37.21	60.83	23.62	Average
4	867.840	21.80	4.75	39.73	38.69	80.83	42.14	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

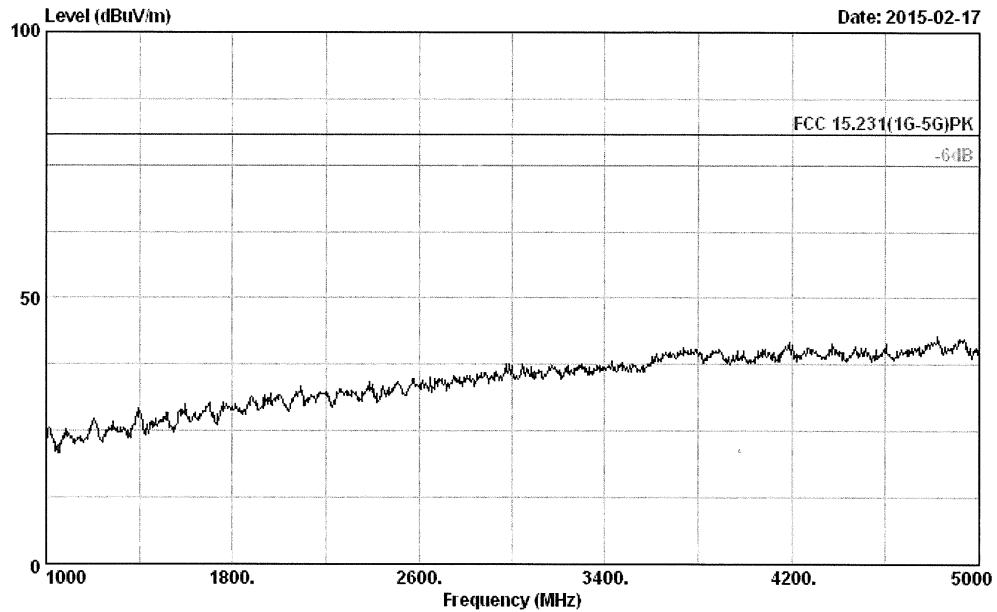


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Data: 9

File: F:2015 Test:TUV 20150212.EM6 (24)

Date: 2015-02-17



Site no. : 3m Chamber
 Dis. / Ant. : 3m 2014 3115 (4580)
 Limit : FCC 15.231(1G-5G)PK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Transmitter
 Power rating : DC 3V
 Test Mode : Tx Mode 433.92MHz
 M/N : RC-A5

Data no. : 9
 Ant. pol. : HORIZONTAL

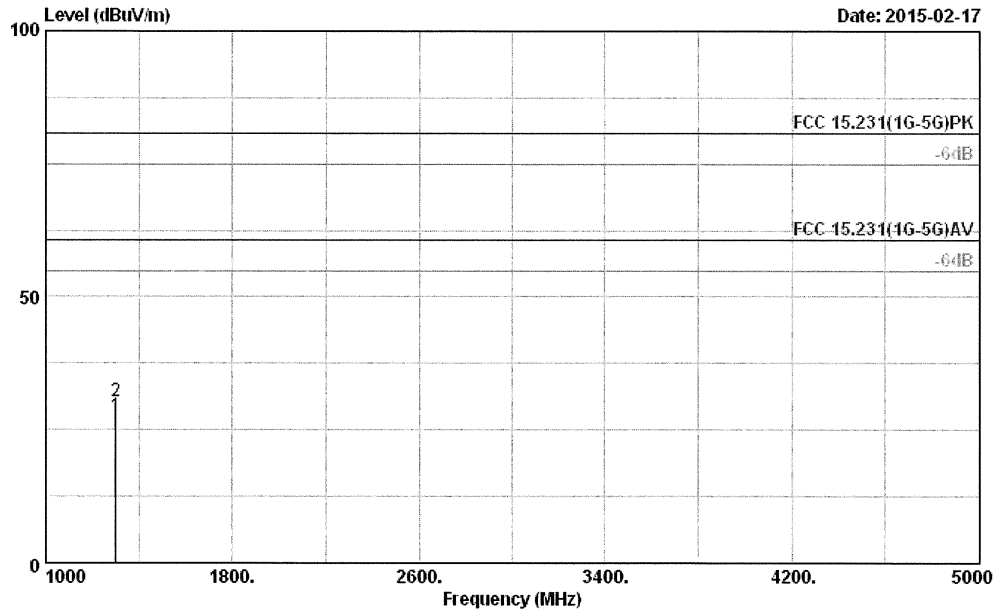


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Data: 10

File: F:\2015 Test\TUV 20150212.EM6 (24)

Date: 2015-02-17



Site no. : 3m Chamber
 Dis. / Ant. : 3m 2014 3115 (4580)
 Limit : FCC 15.231(1G-5G)PK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Transmitter
 Power rating : DC 3V
 Test Mode : Tx Mode 433.92MHz
 M/N : RC-A5

Data no. : 10
 Ant. pol. : HORIZONTAL

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1301.760	24.49	4.20	36.47	35.27	27.49	60.83	33.34	Average
2	1301.760	24.49	4.20	36.47	38.10	30.32	60.83	50.51	Peak

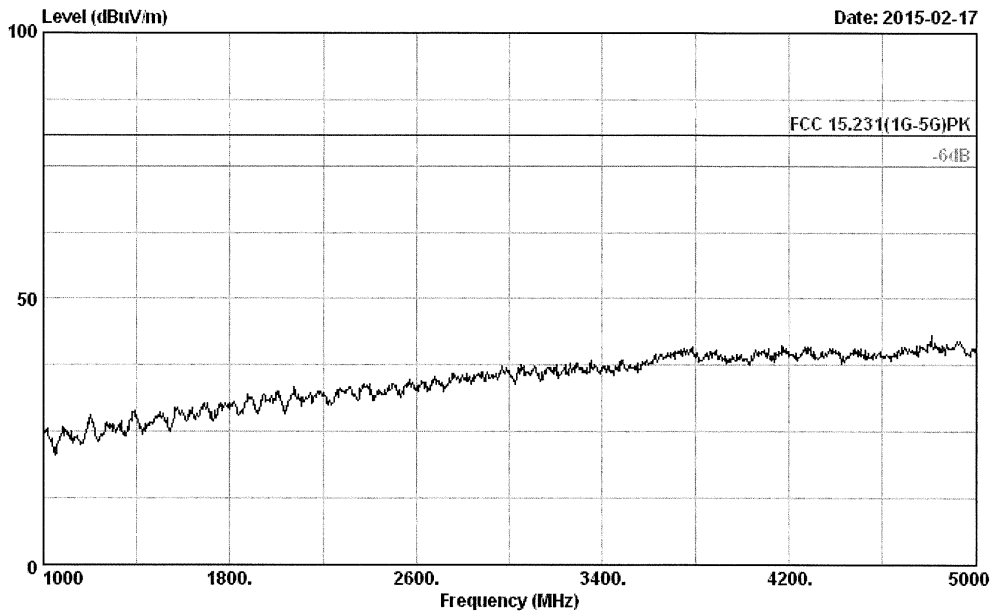
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
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Data: 11 File: F:\2015 Test\TUV 20150212.EM6 (24)

Date: 2015-02-17



Site no.	: 3m Chamber	Data no.	: 11
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC 15.231(1G-5G)PK		
Env. / Ins.	: 23°C/54%		
Engineer	: Leo-Li		
EUT	: Transmitter		
Power rating	: DC 3V		
Test Mode	: Tx Mode 433.92MHz		
M/N	: RC-A5		

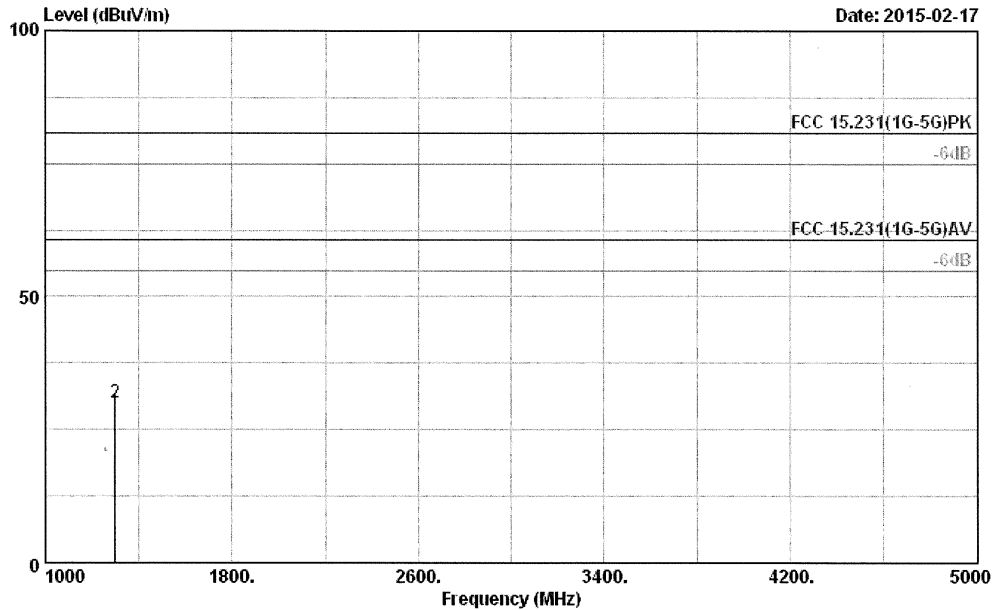


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Data: 12

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Date: 2015-02-17



Site no. : 3m Chamber
 Dis. / Ant. : 3m 2014 3115 (4580)
 Limit : FCC 15.231(1G-5G)PK
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Transmitter
 Power rating : DC 3V
 Test Mode : Tx Mode 433.92MHz
 M/N : RC-A5

Data no. : 12
 Ant. pol. : VERTICAL

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1301.760	24.49	4.20	36.47	36.28	28.50	60.83	32.33	Average
2	1301.760	24.49	4.20	36.47	37.78	30.00	80.83	50.83	Peak

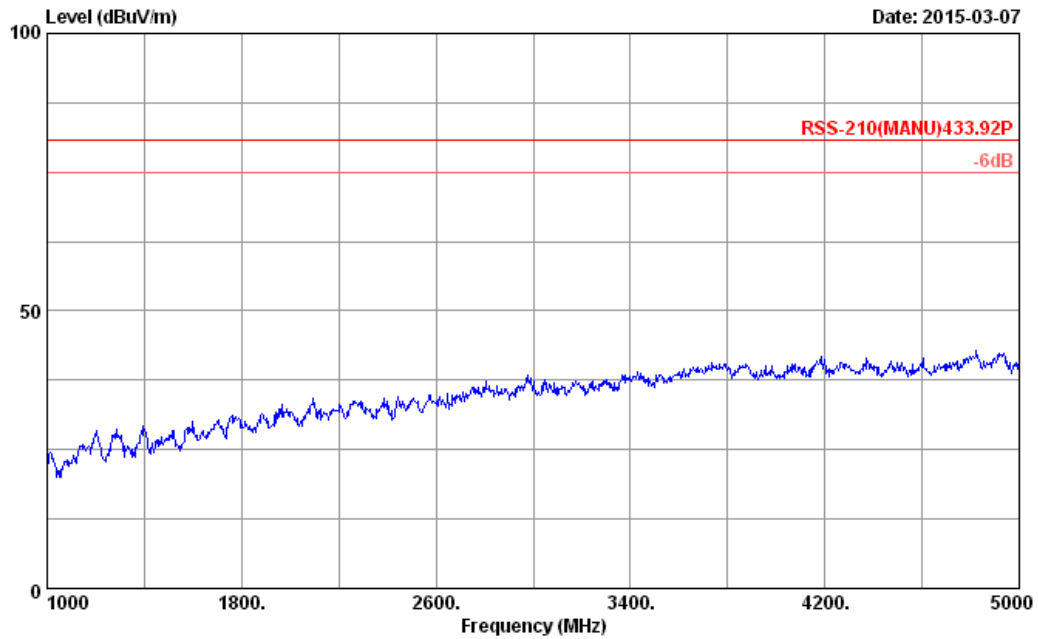
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
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Data: 17 File: F:\2015 Test\TUV 20150212.EM6 (24)

Date: 2015-03-07



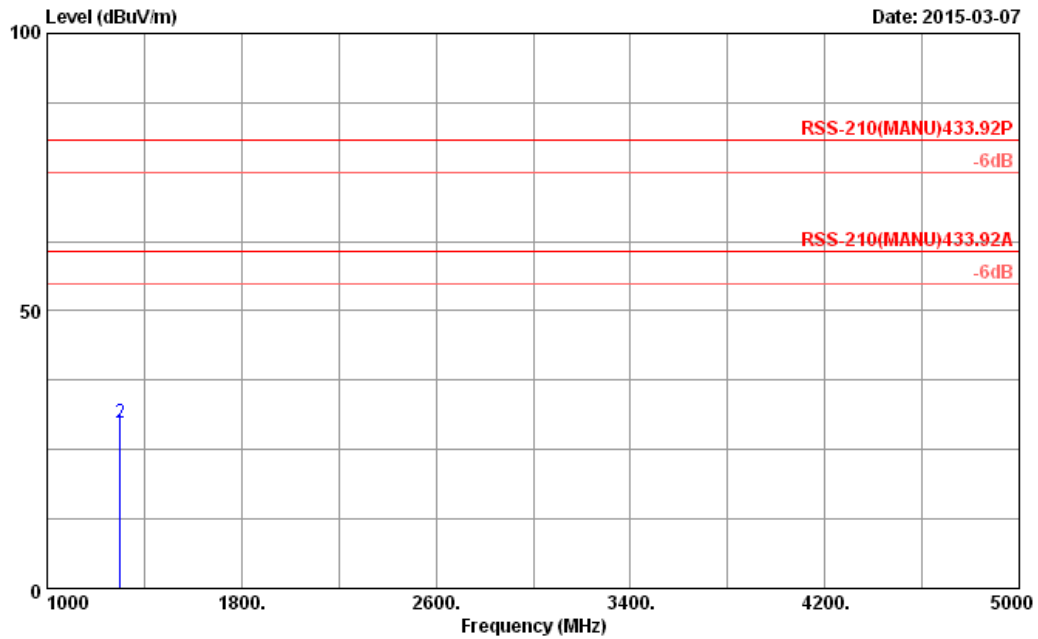
Site no.	: 3m Chamber	Data no.	: 17
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: RSS-210 (MANU) 433.92P		
Env. / Ins.	: 23°C/54%		
Engineer	: Leo-Li		
EUT	: Transmitter		
Power rating	: DC 3V		
Test Mode	: Tx Mode 433.92MHz		
M/N	: RC-A5		



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Data: 18 File: F:\2015 Test\TUV 20150212.EM6 (24)

Date: 2015-03-07



Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : RSS-210(MANU)433.92P
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Transmitter
 Power rating : DC 3V
 Test Mode : Tx Mode 433.92MHz
 M/N : RC-A5

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1301.760	24.49	4.20	36.47	35.84	28.06	60.83	32.77	Average
2	1301.760	24.49	4.20	36.47	37.69	29.91	80.83	50.92	Peak

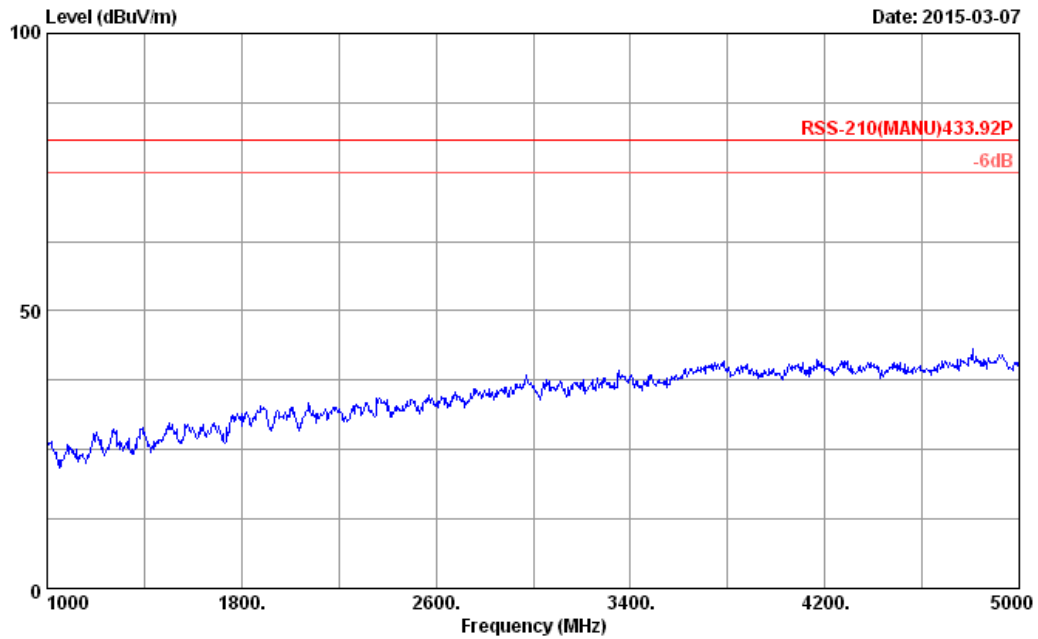
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



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Data: 19 File: F:\2015 Test\TUV 20150212.EM6 (24)

Date: 2015-03-07



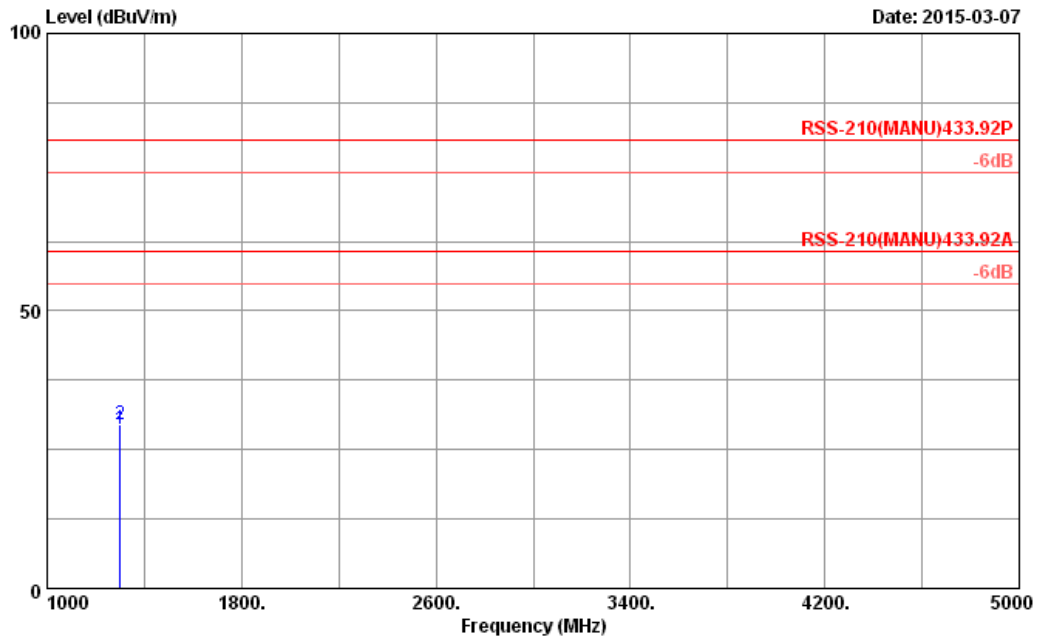
Site no.	: 3m Chamber	Data no.	: 19
Dis. / Ant.	: 3m 2014 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: RSS-210 (MANU) 433.92P		
Env. / Ins.	: 23°C/54%		
Engineer	: Leo-Li		
EUT	: Transmitter		
Power rating	: DC 3V		
Test Mode	: Tx Mode 433.92MHz		
M/N	: RC-A5		



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Data: 20 File: F:\2015 Test\TUV 20150212.EM6 (24)

Date: 2015-03-07



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : RSS-210(MANU)433.92P
 Env. / Ins. : 23°C/54%
 Engineer : Leo-Li
 EUT : Transmitter
 Power rating : DC 3V
 Test Mode : Tx Mode 433.92MHz
 M/N : RC-A5

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1301.760	24.49	4.20	36.47	36.42	28.64	60.83	32.19	Average
2	1301.760	24.49	4.20	36.47	37.28	29.50	80.83	51.33	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

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Page 25 of 30**5.1.3 20dB Bandwidth and 99% Bandwidth****RESULT:****Pass**

Test standard : FCC part 15.231 (c)
: RSS-210 A1.1.3
Basic standard : ANSI C63.4: 2003
Kind of test site : Shielded room

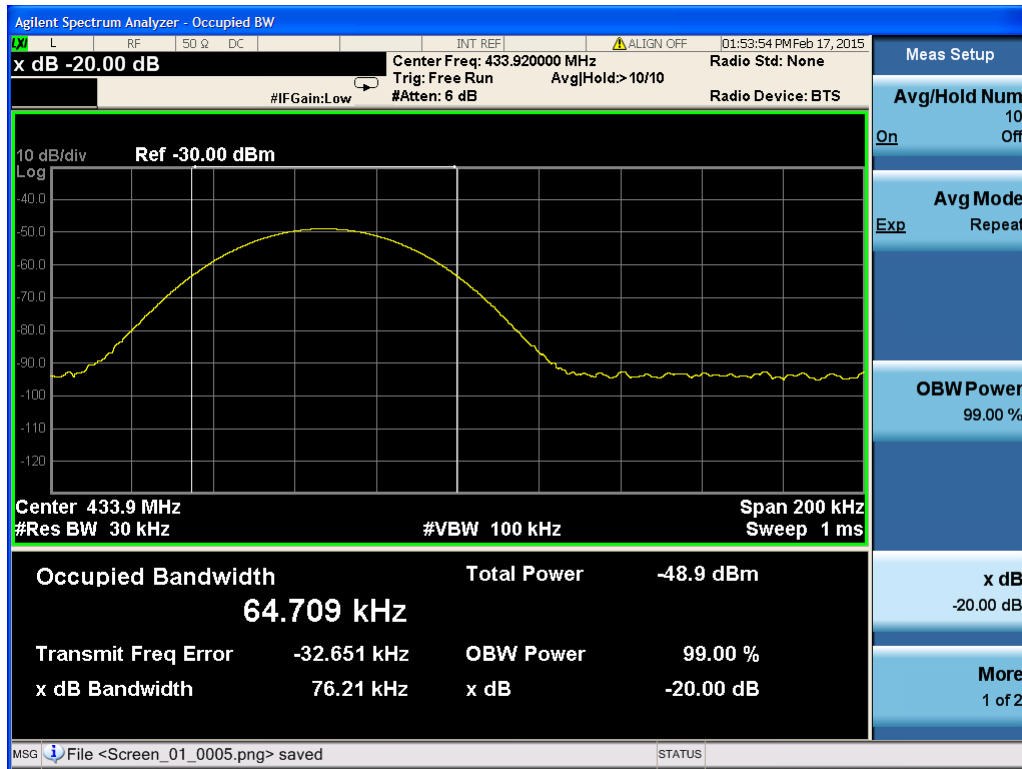
Test setup

Date of testing : 2015-02-17
Operation Mode : A
Ambient temperature : 24.5°C
Relative humidity : 64%
Atmospheric pressure : 101kPa

Table 4: Test result of 20dB & 99% Bandwidth

Channel Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)	Limit (kHz)
433.92MHz	76.210	64.709	1084.8

For details refer to following test plot.



6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Pass**

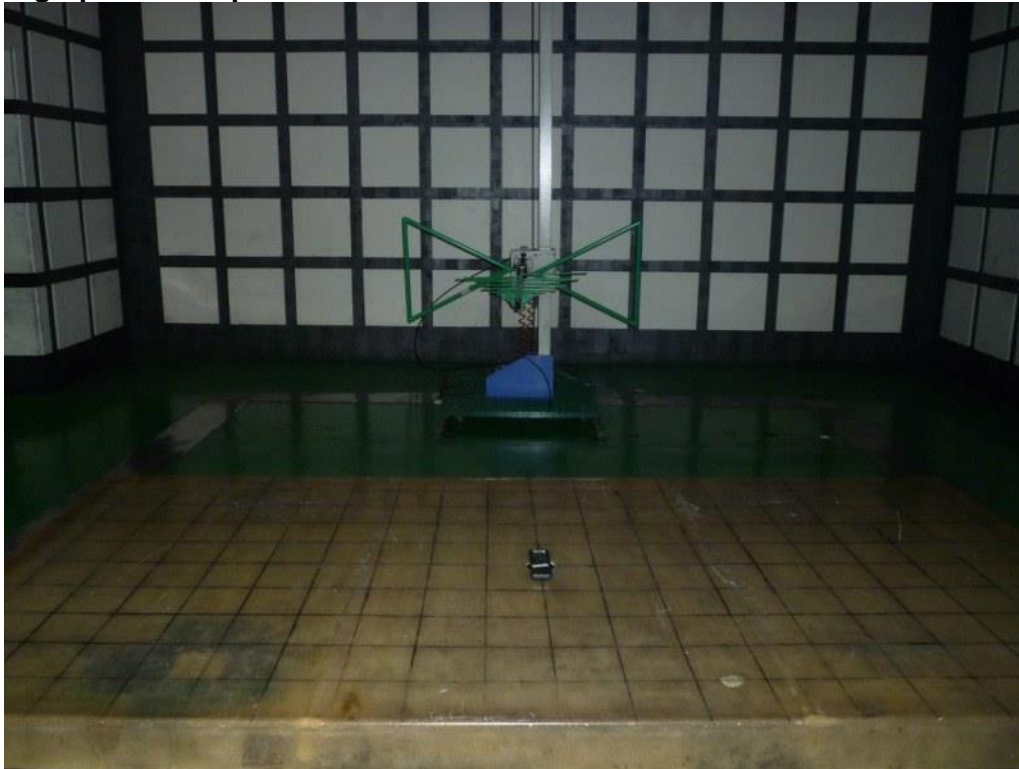
Test standard : RSS-102 Issue 5 March 2015
FCC KDB Publication 447498 v05r02

The maximum peak output power of the transmitter is 0.00063mW (63.21dB μ V/m) only, which less than 52mW. Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 5.

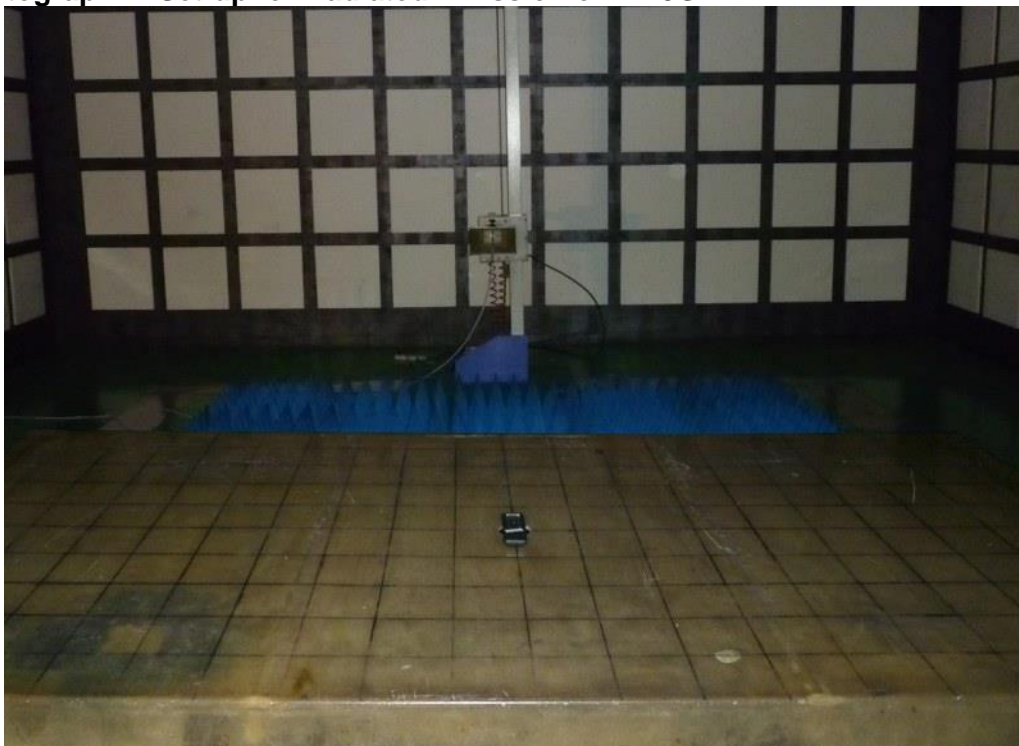
Since maximum peak output power of the transmitter is 0.00063mW<22mW, and the distance from EUT to human is 5mm, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01 General RF Exposure Guidance v05r02.

7. Photographs of the Test Set-Up

Photograph 1: Set-up for Radiated Emission below 1000MHz



Photograph 2: Set-up for Radiated Emission of 1 – 5GHz



Photograph 3: Set-up for Radiated Emission of 1 – 5GHz for IC



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