



# ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No. : E139R-044

AGR No : A138A-069

Applicant : Remotesolution Co.,Ltd.

Address : 92, Chogokri, Nammyun, Kimchon city, Kyungbuk, Korea, 740-871

Manufacturer : Remotesolution Co.,Ltd.

Address : 92, Chogokri, Nammyun, Kimchon city, Kyungbuk, Korea, 740-871

Type of Equipment : IR&RF Remote

FCC ID. : TX4CRB29C

Model Name : CRB29C

Multiple Model Name : XR2

Serial number : None

Total page of Report : 21 pages (including this page)

Date of Incoming : September 12, 2013

Date of issue : September 23, 2013

# **SUMMARY**

The equipment complies with the regulation; FCC Part 15 Subpart C Section 15.249.

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

Prepared by:

Ki-Hong Nam / Senior En

Ki-Hong, Nam / Senior Engineer ONETECH Corp.

Approved by:

Gea-Won, Lee / Managing Director ONETECH Corp.

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## **Revision History**

Issue Report No.	Issued Date	Revisions	Effect Section
E139R-044	September 23, 2013	Initial Release	All

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## 1. VERIFICATION OF COMPLIANCE

APPLICANT : Remotesolution Co.,Ltd.

ADDRESS : 92, Chogokri, Nammyun, Kimchon city, Kyungbuk, Korea, 740-871

CONTACT PERSON : Hong Bum, Shin / CEO

TELEPHONE NO : +82-54-420-4581

FCC ID : TX4CRB29C

MODEL NAME : CRB29C

BRAND NAME : N/A SERIAL NUMBER : N/A

DATE : September 23, 2013

EQUIPMENT CLASS	DXX – Low Power Communications Transmitter
KIND OF EQUIPMENT	IR&RF Remote
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2009
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.249
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	No
FINAL TEST WAS CONDUCTED ON	3 m, Semi Anechoic Chamber

<sup>-.</sup> The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

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## 2. TEST SUMMARY

#### 2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.249 (a)	Field Strength of Emission	Met the Limit / PASS
15.249 (c)	Measurement distance	Met the Requirement / PASS
15.249 (d)	Emissions Radiated Outside of the Specified Frequency Band	Met the Limit / PASS
15.249 (e)	Radiated Emissions above 1 000 MHz	Met the Limit / PASS
15.209	Radiated Emission Limits, General Requirement	Met the Limit / PASS
15.207	Conducted Limits	N/A (See Note)
15.203	Antenna Requirement	Met the Requirement / PASS

Note: This test is not performed because the EUT is operated by DC battery.

#### 2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

#### 2.3 Related Submittal(s) / Grant(s)

Original submittal only

## 2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in section 2.1.

# 2.5 Test Methodology

Radiated testing was performed according to the procedures in ANSI C63.10: 2009 at a distance of 3 m from EUT to the antenna.

## 2.6 Test Facility

The open area test site is located at 307-51 Daessangryung-ri, Chowol-eup, Gwangju-si, Gyeonggi-do and 10 m Semi Anechoic Chamber (SAC) and conducted measurement facilities are located at 301-14, Daessangryung-ri, Chowol-eup, Gwangju-si, Gyeonggi-do, 464-862, Korea. The Onetech Corp. has been accredited as a Conformity Assessment Body (CAB) with designation number KR0013 under APEC TEL MAR between the RRA and the FCC.

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## 3. GENERAL INFORMATION

# 3.1 Product Description

The Remotesolution Co.,Ltd., Model: CRB29C (referred to as the EUT in this report) is an IR&RF Remote. Product specification information described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	Portable Device
OPERATING FREQUENCY	2 425 MHz ~ 2 475 MHz
RATED RF OUTPUT POWER	0 dBm
ANTENNA TYPE	Inserted into the main board(Pattern Antenna)
MODULATION	O-QPSK
Tx DATA SPEED	250 kbps
USED RF CHIP	Maker: GreenPeak Technologies, Model Name:GP541
LIST OF EACH OSC. OR CRY. FREQ.(FREQ. >= 1 MHz)	16 MHz
RATED SUPPLY VOLTAGE	1.5 V Mangan Battery * 2

## 3.2 Model Differences

-. The following lists consist of the added model and their differences.

Model Name	Differences					
CRB29C	Basic Model	V				
XR2	These models are identical to basic model except for the model name only.					

Note: 1. Applicant consigns only basic model to test. Therefore this test report just guarantees the units, which have been tested.

2. The Applicant/manufacturer is responsible for the compliance of all variants.

## 4. EUT MODIFICATIONS

-. None

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## 5. SYSTEM TEST CONFIGURATION

## 5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	DEVICE TYPE MANUFACTURER		FCC ID
Main Board	N/A	RS-Ver 1.00	N/A

# 5.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested: None

## 5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting is programmed.

For final testing, the EUT was set at Low Channel (2 425 MHz), Middle Channel (2 450 MHz), and High Channel (2 475 MHz). To get a maximum emission levels from the EUT, the EUT was moved throughout the XY, XZ, and YZ planes and the worst case is "XY" axis.

## 5.4 Configuration of Test System

**Line Conducted Test** : It is not need to test this requirement, because the EUT shall be operated by DC battery.

**Radiated Emission Test** 

: Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2009 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 m open area test site.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both

vertical and horizontal polarization.

# **5.5** Antenna Requirement

According to section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### **Antenna Construction:**

The antenna of the EUT is a pattern antenna on the main board in the EUT, so no consideration of replacement by the user.

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## 6. PRELIMINARY TEST

## **6.1 AC Power line Conducted Emissions Tests**

During Preliminary Tests, the following operating mode was investigated

Operation Mode	The Worse operating condition (Please check one only)
It is not need to test this requirement, becau	se the power of the EUT is supplied by battery.

## **6.2 General Radiated Emissions Tests**

During Preliminary Tests, the following operating modes were investigated

Operation Mode	The Worse operating condition (Please check one only)
TX Mode	X

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## 7. RADIATED EMISSION TEST

## 7.1 Test set-up

The radiated emissions measurements were on the 3 m, semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from up to 25 GHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

Test set-up photos are included in appendix I.

## 7.2 Measurement uncertainty

Radiated emission electric field intensity, 0.15 MHz  $\sim$  30 MHz :  $\pm$  2.61 dB Radiated emission electric field intensity, 30 MHz  $\sim$  300 MHz :  $\pm$  4.43 dB Radiated emission electric field intensity, 300 MHz  $\sim$  1 000 MHz :  $\pm$  3.80 dB Radiated emission electric field intensity, 1 000 MHz  $\sim$  3 000 MHz:  $\pm$  4.40 dB

Measurement uncertainty is calculated in accordance with CISPR 16-4-2. The measurement uncertainty is given with a confidence of 95 % with the coverage factor, k = 2.

## 7.3 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
□-	ESCI	Rohde & Schwarz	EMI Test Receiver	101012	Feb. 06, 2013(1Y)
■ -	ESU	Rohde & Schwarz	EMI Test Receiver	100261	May 27, 2013(1Y)
□ -	8564E	HP	Spectrum Analyzer	3650A00756	May 03, 2013(1Y)
□ -	FSP	Rohde & Schwarz	Spectrum Analyzer	100017	Mar 11, 2013(1Y)
■ -	310N	Sonoma Instrument	AMPLIFIER	312544	May 21, 2013(1Y)
■ -	FSV30	Rohde & Schwarz	Signal Analyzer	101372	May 20, 2013(1Y)
■ -	SCU-18	Rohde & Schwarz	PRE-AMPLIFIER	10041	Apr. 19, 2013(1Y)
■ -	MA240	HD GmbH	Antenna Master	N/A	N/A
■ -	HD100	HD GmbH	Position Controller	N/A	N/A
■ -	DS420S	HD GmbH	Turn Table	N/A	N/A
■ -	HFH2-Z2	Rohde & Schwarz	Loop Antenna	889 285 / 26	Dec. 11, 2012(2Y)
■ -	VULB9163	Schwarzbeck	TRILOG Broadband Antenna	VULB9163-255	Apr. 24, 2012(2Y)
■ -	BBHA9120D	Schwarzbeck	Horn Antenna	BBHA9120D295	Sep. 05, 2013(2Y)
■ -	BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Jun. 17, 2013(2Y)

All test equipment used is calibrated on a regular basis.

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## 7.4 Final Result of Measurement

## 7.4.1 Field Strength of the Fundamental Frequency

The following table shows the highest levels of radiated emissions on both polarizations of horizontal and vertical.

Humidity Level : 46 % R.H. Temperature: 24 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249(a)

Result : PASSED

EUT : IR&RF Remote Date: September 16, 2013

Operating Condition : TX mode

Distance : 3 m

	Radiated Emissions		Ant	Correction Factors			Total	FCC I	Limit	
Channel	Carrier Freq. (MHz)	Reading (dBµV)	Detector Mode	Pol.	Antenna (dB/m)	Cable (dB)	Pre-Amp (dB)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)
		91.56	Peak	Н				82.76	113.98	31.22
_		88.18	Average	Н				79.38	93.98	14.60
Low	2 425.00	88.64	Peak	V	27.20	7.10	43.10	79.84	113.98	34.14
		84.88	Average	V				76.08	93.98	17.90
		89.68	Peak	Н	27.30	7.10	43.10	80.98	113.98	33.00
		83.50	Average	Н				74.80	93.98	19.18
Middle	2 450.00	88.24	Peak	V				79.54	113.98	34.44
		82.44	Average	V				73.74	93.98	20.24
		89.80	Peak	Н				81.10	113.98	32.88
		83.96	Average	Н				75.26	93.98	18.72
High	2 475.00	87.58	Peak	V	27.30	7.10	43.10	78.88	113.98	35.10
		81.04	Average	V				72.34	93.98	21.64

<sup>\*</sup>Remark: To get a maximum emission level from the EUT, the EUT was moved throughout the XY, XZ, and YZ planes, but the worst plane data were recorded in the report.

Margin (dB) = Limit (dBuV/m) - Total (dBuV/m)

 $Total = Reading + Antenna \ Factor + Cable \ Loss - Pre-amplifier \ gain.$ 

Tested by: Tae-Ho, Kim / Project Engineer

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## 7.4.2 Emissions Radiated Outside of the Specified Frequency Bands

## 7.4.2.1 Test Data for Harmonic

Humidity Level : 46 % R.H. Temperature: 24 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249(a)

Result : PASSED

EUT : IR&RF Remote Date: September 16, 2013

Operating Condition : TX mode

Distance : 3 m

Channel	Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Pre-Amp (dB)	Total (dBμV/m)	Limits (dBµV/m)	Margin (dB)	
		50.05	Peak	Н				48.35	73.98	25.63	
	4.050.00t	41.02	Average	Н	24.20	0.70	12.10	39.32	53.98	14.66	
Low	4 850.00*	47.74	Peak	V	31.20	9.50	42.40	46.04	73.98	27.94	
		37.43	Average	V				35.73	53.98	18.25	
			Oth	er frequenci	es were no	t found u	p to 25 GH	z.			
		48.81	Peak	Н	31.20			47.41	73.98	26.57	
		39.41	Average	Н				38.01	53.98	15.97	
Middle	4 900.00*	46.81	Peak	V		9.80	42.40	45.41	73.98	28.57	
		36.60	Average	V				35.20	53.98	18.78	
	Other frequencies were not found up to 25 GHz.										
		48.78	Peak	Н				47.68	73.98	26.30	
		39.11	Average	Н				38.01	53.98	15.97	
High	4 950.00*	46.36	Peak	V	31.30	9.90	42.30	45.26	73.98	28.72	
		35.99	Average	V				34.89	53.98	19.09	
			Oth	er frequenci	es were no	t found u	p to 25 GH	z.			

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical, "\*" Frequency fall in restricted band

Margin ( dB) = Limit (dBuV/m) – Total (dBuV/m)

Total = Reading + Antenna Factor + Cable Loss - Pre-amplifier gain.

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## 7.4.2.2 Test Data for Frequency range: 30 MHz ~ 1 000 MHz

Humidity Level :  $(44 \sim 45)$  % R.H. Temperature:  $(23 \sim 24)$  °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249 (d)

Result : PASSED

EUT : IR&RF Remote Date: September 13, 2013

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)

Operating condition : Low Channel

[dl	BuV/m]	<<	QP DATA	<b>\&gt;&gt;</b>				O HORIZO	ONTAL /	/×VERT	ICAL
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ا ٥											
30		50	70	100		200	300		500	700	1000
									Fr	equency[	MHz
			Tabı	ılated Re	sults fo	r Radiate	ed Emissio	on	Fr	equency[	MHz
N	o. FREQ	READIN QP		LOSS		r Radiate		on MARGIN			
N	o. FREQ		G ANT	LOSS	GAIN	RESULT		MARGIN			E
		QP [dBuV]	G ANT FACTO	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENN	NA TABL	E
	[MHz]	QP [dBuV]  31.0	G ANT FACTO	LOSS PR [dB]	GAIN	RESULT	LIMIT	MARGIN	ANTENN	NA TABL	E
	[MHz] - Horizontal 1 57.160	QP [dBuV]  31.0 0 40.4	G ANT FACTC [dB]	LOSS PR [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENN [cm]	NA TABL	E

Remark: Margin (dB) = Limit – Result and Result = Reading Peak + Antenna Factor + Loss – Gain

Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

Tested by: Tae-Ho, Kim / Project Engineer



4 5

6

155.130

831.211 892.319

33.0

34.8

31.4

9.4

22.6

23.3

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Operating condition : Middle Channel

F	8 1 1 1											
	Graphical representation of Radiated Emission											
70	[dBuV/m	ր]	,	< <qp td=""  <=""><td>DATA</td><td>&gt;&gt;</td><td></td><td></td><td>0</td><td>HORIZONT</td><td>AL /×</td><td>/ERTICAL</td></qp>	DATA	>>			0	HORIZONT	AL /×	/ERTICAL
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0	30		50	70		100		200	300	500	700	0 1000
											Frequ	ency[MHz]
					Ta	bulated I	Results for	· Radiated I	Emission			
N	lo. FR	EQ F	READI QP		ANT CTO		GAIN	RESULT	LIMIT	MARGIN	ANTEN	NA TABLE
	[Mł	Hz]	[dBu\	/]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	- Horizo	ntal										
	1 44	.550	28.5		15.2	1.5	33.2	12.0	40.0	28.0	200	359
	- Vertica	al										
		.530	32.9 32.5		9.0 11.8	1.9 2.3	33.1 33.1	10.7 13.5	40.0 43.5	29.3 30.0	100 300	359 2

Remark: Margin (dB) = Limit - Result and Result = Reading Peak + Antenna Factor + Loss - Gain Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

33.0 32.9

32.5

12.0

30.5

28.5

43.5

46.0

46.0

2.6

6.0

6.3

Tested by: Tae-Ho, Kim / Project Engineer

100

400

200

31.5 15.5

17.5

100

353



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Operating condition : High Channel

perat	ing co	ndition	<u>:</u>	High	Chann	el						
					Grap	hical repr	esentatio	n of Radiat	ed Emission	n		
	[dBu\	//m]		< <qf< th=""><th>DATA</th><th><b>\&gt;&gt;</b></th><th></th><th></th><th>0</th><th>HORIZON</th><th>TAL /×V</th><th>ERTICAL</th></qf<>	DATA	<b>\&gt;&gt;</b>			0	HORIZON	TAL /×V	ERTICAL
70												
60												
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	30		50	70		100		200	300	50		1000 ncy[MHz]
					Ta	abulated F	Results for	r Radiated	Emission			
٨	lo. I	FREQ	READ! QP		ANT ACTO		GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	I	[MHz]	[dBu\	<b>V</b> ]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Hor	izontal										
	1	59.100	29.2	2	14.2	1.7	33.1	12.0	40.0	28.0	200	359
	Ver	tical										
	3 4 5	53.280 121.180 155.130 344.791 392.319	39.8 33.6 37.2	3	14.8 11.3 9.4 22.8 23.3	1.6 2.3 2.6 6.1 6.3	33.2 33.1 33.0 32.8 32.5	11.3 20.3 12.6 33.3 28.5	40.0 43.5 43.5 46.0 46.0	28.7 23.2 30.9 12.7 17.5	200 200 200 200 100	0 0 92 0 276

Remark: Margin (dB) = Limit – Result and Result = Reading Peak + Antenna Factor + Loss – Gain Loss and Gain in above table means Cable Loss and Pre-amplifier gain.

Tested by: Tae-Ho, Kim / Project Engineer



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## 7.4.2.3 Test Data for Below 30 MHz

Humidity Level :  $(44 \sim 45)$  % R.H. Temperature:  $(23 \sim 24)$  °C

Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)

Frequency range :  $9 \text{ kHz} \sim 30 \text{ MHz}$ 

Measurement distance : 3 m

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249 (d)

Result : PASSED

EUT : IR&RF Remote Date: September 13, 2013

Detector : CISPR Quasi-Peak (Resolution Bandwidth: 9 kHz)

Frequency (MHz)	Reading (dBµV)	Ant. Pol. (H/V)	Ant. Height (m)	O	Ant. Factor (dB/m)	Emission Level(dBμV/m)	Limits (dBµV/m)	Margin (dB)

It was not observed any emissions from the EUT.

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## 7.4.2.4 Test Data above 1 GHz except for harmonic

-. Test Date : September 13, 2013

- . Humidity Level : (44 ~ 45) % R.H.

-. Temperature :  $(23 \sim 24)$  °C

-. Resolution bandwidth : 1 MHz for Peak and Average Mode

-. Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode

-. Frequency range : 1 GHz ~ 25 GHz

-. Measurement distance : 3 m

-. Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249 (d)

- Result : <u>PASSED</u>

Frequency	Reading	Ant. Pol.	Ant.	Angle	Ant. Factor	Cable	Emission	Limits	Margin
(MHz)	(dBµV)	(H/V)	Height (m)	(°)	(dB/m)	Loss	Level(dBµV/m)	(dBµV/m)	(dB)

It was not observed any emissions from the EUT.

Tested by: Tae-Ho, Kim / Project Engineer

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#### **7.4.2.5 Band Edge**

-. Test Date : September 16, 2013

-. Resolution bandwidth : 1 MHz for Peak and Average Mode

-. Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode

-. Measurement distance : 3 m

-. Operating Condition : Low / High Channel

-. Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249 (d)

-. Result : PASSED

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Pre-Amp (dB)	Total (dBμV/m)	Limits (dBµV/m)	Margin (dB)	
Test Data for Low Channel										
2 372.91	43.02	Peak	Н				34.02	74.00	39.98	
2 372.91	29.00	Average	Н				20.00	54.00	34.00	
2 369.94	42.61	Peak	V	27.10	7.00	43.10	33.61	74.00	40.39	
2 369.94	28.92	Average	V				19.92	54.00	34.08	
			Tes	t Data for	r High Cha	nnel				
2 483.91	43.27	Peak	Н				34.67	74.00	39.33	
2 483.91	33.49	Average	Н				24.89	54.00	29.11	
2 483.86	43.60	Peak	V	27.40	7.10	43.10	35.00	74.00	39.00	
2 483.86	31.44	Average	V				22.84	54.00	31.16	

Remark. Margin ( dB) = Limit (dBuV/m) – Total (dBuV/m)

Total = Reading + Antenna Factor + Cable Loss - Pre-amplifier gain.

Tested by: Tae-Ho, Kim / Project Engineer

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## 8. 20 dB BANDWIDTH

# 8.1 Operating environment

Temperature :  $25 \, ^{\circ}\text{C}$ 

Relative humidity : 48 % R.H.

## 8.2 Test set-up

The output signal of EUT was received by the spectrum analyzer. The resolution bandwidth is set to 10 kHz, and peak detection was used. The 20 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 20 dB.

EUT

Spectrum analyzer

## 8.3 Test equipment used

	<b>Model Number</b>	Manufacturer	Description	Serial Number	Last Cal. (Interval)
<b>-</b>	FSP	R/S	Spectrum Analyzer	100017	Mar 11, 2013 (1Y)

## 8.4 Test data for Bandwidth

-. Test Date : September 13, 2013

-. Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.215(c)

Channel	Operating Freq. (MHz)	20 dB Bandwidth (MHz)	Result
Low	2 425.00	2.640 0	
Middle	2 450.00	2.640 0	Met the requirement / PASS
High	2 475.00	2.630 0	

Remark: See next page for 20 dB Bandwidth test data.

The 20 dB bandwidth is within the assigned frequency band from 2 400 MHz to 2 483.5 MHz.

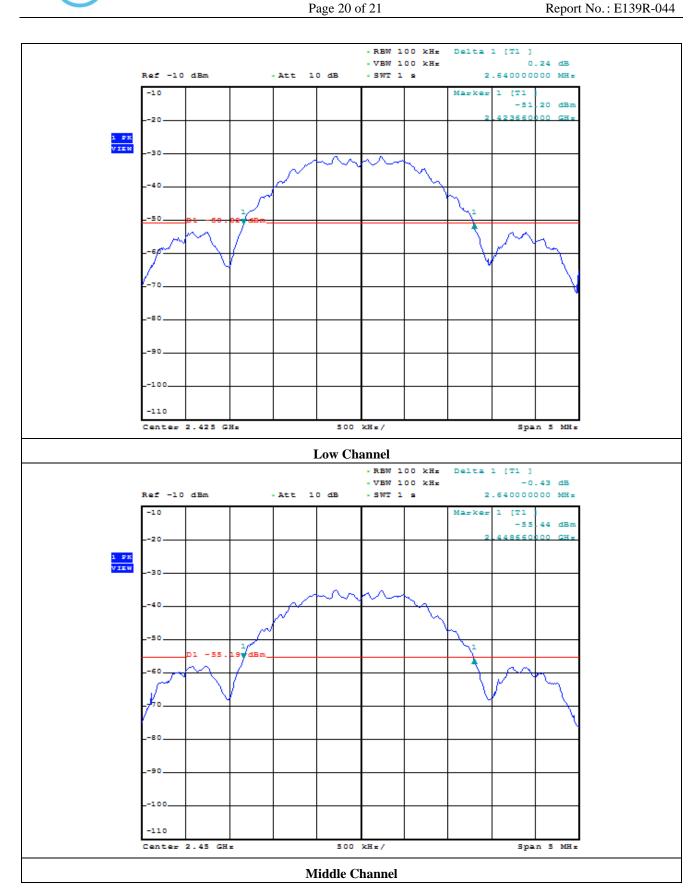
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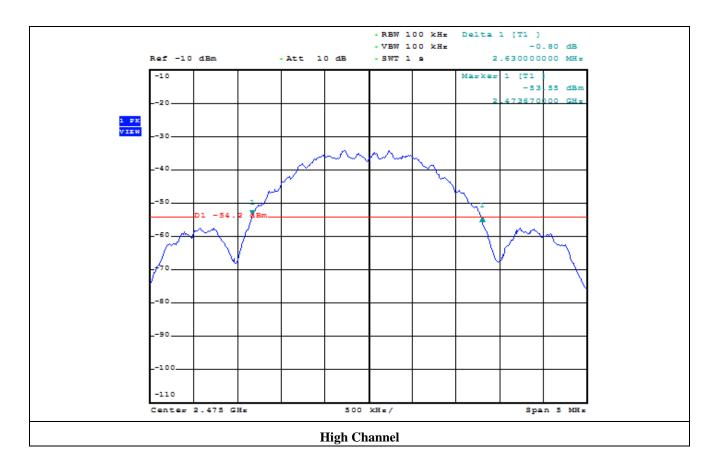












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