

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

Test Report No. : E12NR-031

AGR No : A12OA-243

Applicant : G.S. Trading Co., Ltd.

Address : Rm 301, Sang bo B/D, 396-223, Sindorim-Dong, Kuro-Ku, Seoul, Korea

Manufacturer : G.S. Trading Co., Ltd.

Address : Rm 301, Sang bo B/D, 396-223, Sindorim-Dong, Kuro-Ku, Seoul, Korea

Type of Equipment : Single Modular Transmitter

FCC ID. : R6G-GSRMI24-1

Model Name : GSRMI24-1

Serial number : None

Total page of Report : 28 pages (including this page)

Date of Incoming : November 06, 2012

Date of issue : November 16, 2012

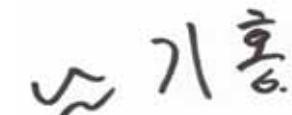
SUMMARY

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:



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ONETECH Corp.

Reviewed by:



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ONETECH Corp.

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Revision History

Issue Report No.	Issued Date	Revisions	Effect Section
E12NR-031	November 16, 2012	Initial Release	All

1. VERIFICATION OF COMPLIANCE

APPLICANT : G.S. Trading Co., Ltd.
 ADDRESS : Rm 301, Sang bo B/D, 396-223, Sindorim-Dong, Kuro-Ku, Seoul, Korea
 CONTACT PERSON : Mr. Young-Cheol Na / CEO
 TELEPHONE NO : +82-2-858-1255
 FCC ID : R6G-GSRMI24-1
 MODEL NAME : GSRMI24-1
 BRAND NAME : N/A
 SERIAL NUMBER : N/A
 DATE : November 16, 2012

EQUIPMENT CLASS	DXX – Low Power Communications Transmitter
KIND OF EQUIPMENT	Single Modular Transmitter
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.4: 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.

-. 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.

2. TEST SUMMARY

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.215(c)	20 dB BANDWIDTH	Met the Limit / PASS
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	Met the Limit / PASS
15.203	Antenna Requirement	Met the Requirement / PASS

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 C63.4: 2009 at a distance of 3 m from EUT to the antenna.

2.6 Test Facility

The semi anechoic chamber and conducted measurement facilities are located on at 301-14, Daessangnyeong-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

3. GENERAL INFORMATION

3.1 Product Description

The G.S. Trading Co., Ltd., Model: GSRMI24-1 (referred to as the EUT in this report) is a Single Modular Transmitter. Product specification information described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	Single Modular Transmitter
OPERATING FREQUENCY	2 402 MHz ~ 2 480 MHz
RATED RF OUTPUT POWER	0 dBm
ANTENNA TYPE	PCB Pattern Antenna
MODULATION	FSK
Tx DATA SPEED	1.6 Mbps
USED RF CHIP	Maker: ELAN MICROELECTRONICS CORPORATION Model Name: EM198850AW
LIST OF EACH OSC. OR CRY. FREQ.(FREQ. >= 1 MHz)	12 MHz
RATED SUPPLY VOLTAGE	DC 3 V

3.2 Model Differences

-. None

4. EUT MODIFICATIONS

-. None

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	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	N/A	N/A	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 (2 402 MHz), Middle Channel (2 441 MHz), and High Channel (2 480 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 : The EUT was connected to DC power supply was connected to LISN. All supporting equipments were connected to another LISN. Preliminary Power line Conducted Emission tests were performed by using the procedure in ANSI C63.4: 2009 7.3.3 to determine the worse operating conditions..

Radiated Emission Test : Preliminary radiated emissions test were conducted using the procedure in ANSI C63.4: 2009 8.3.1.1 and 13.4.1 to determine the worse operating conditions. Final radiated emission tests were conducted at 10 m semi anechoic chamber.

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.

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)
Tx Mode	X

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

7. CARRIER FREQUENCY SEPARATION

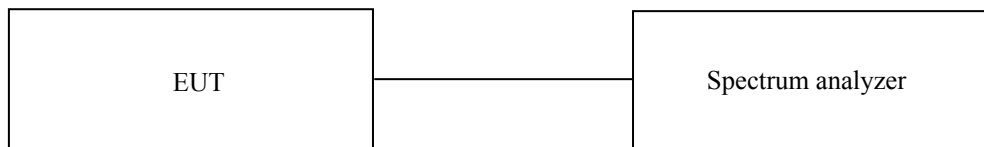
7.1. 20 dB BANDWIDTH

7.1.1 Operating environment

Temperature : 25 °C
Relative humidity : 54 % R.H.

7.1.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 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 is defined.



7.1.3 Test equipment used

Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
■ - FSV30	Rohde & Schwarz	Signal Analyzer	101372	May 31, 2012(1Y)

All test equipment used is calibrated on a regular basis.

7.1.4 20 dB Bandwidth

-. Test Date : November 13, 2012

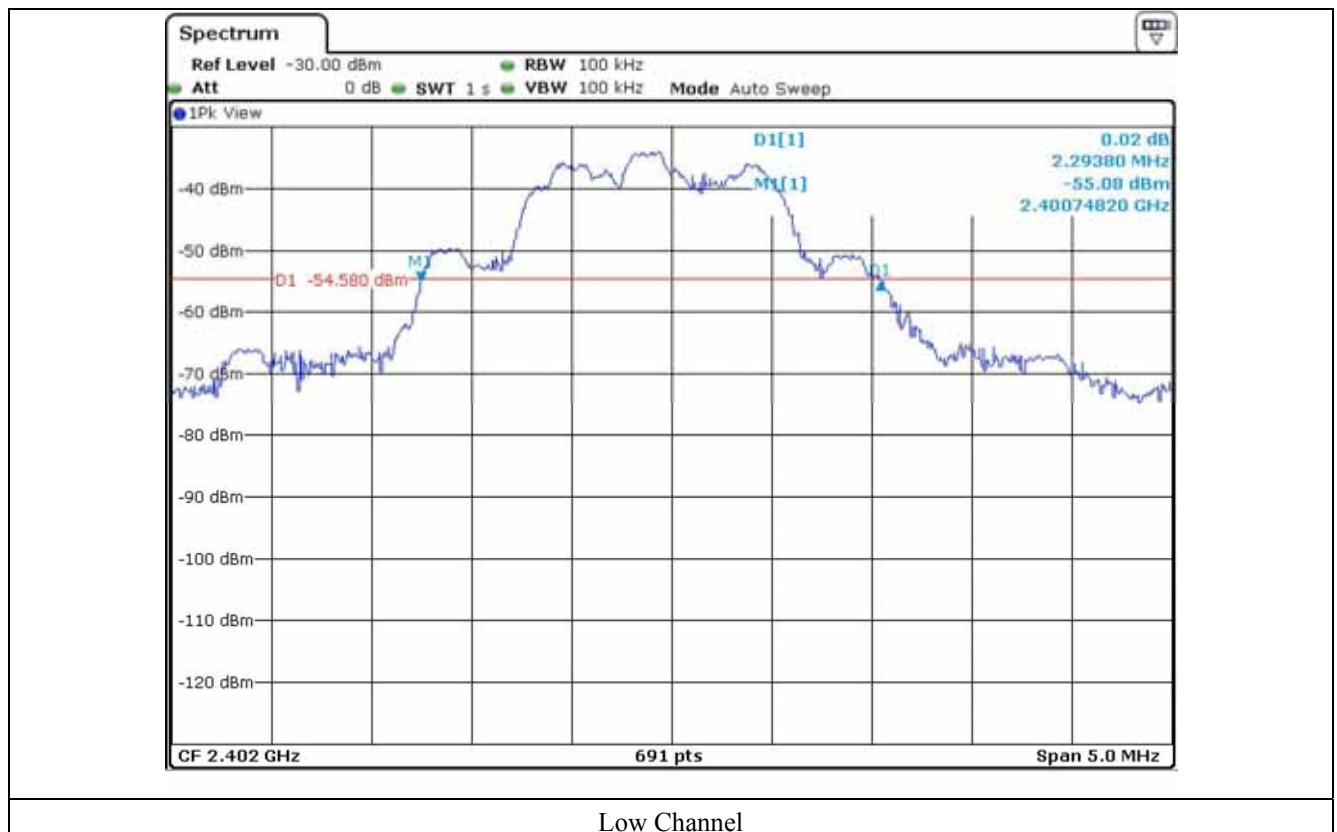
-. Test Result : Pass

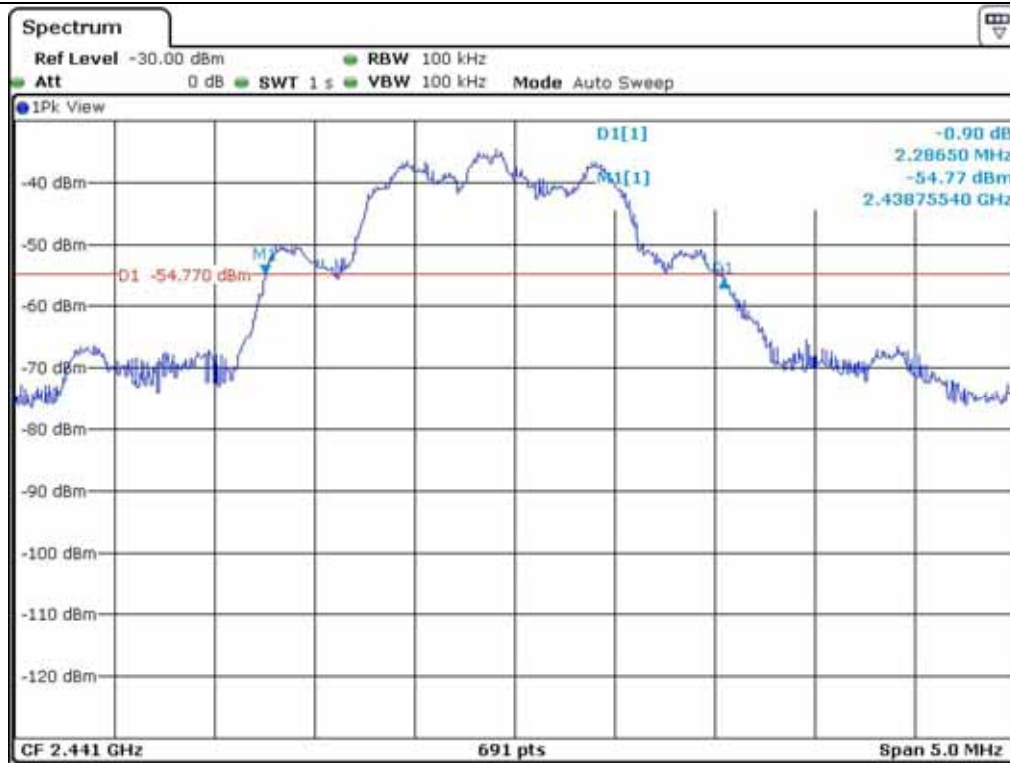
Frequency(MHz)	Occupied Bandwidth(MHz)	Result
2 402.00	2.293 8	Pass
2 441.00	2.286 5	Pass
2 480.00	2.351 7	Pass

Remark: See next page for an overview sweep performed with peak detector.

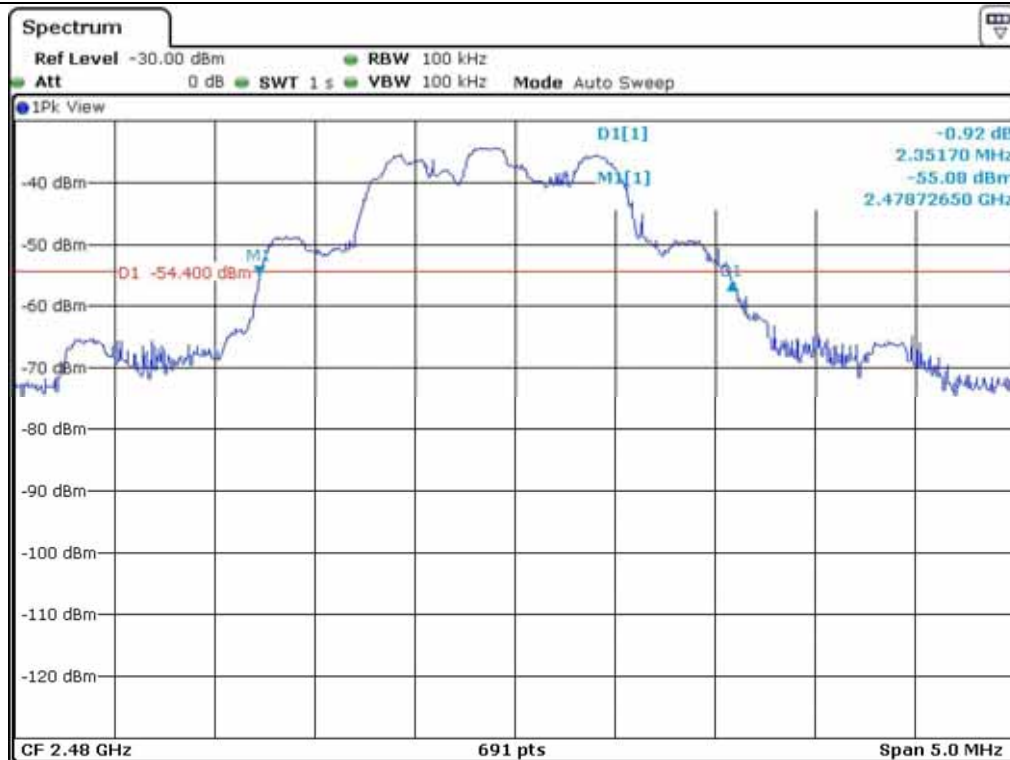
01 30 24

Tested by: Hong-Kyu, Lee/ Engineer





Middle Channel



High Channel

8. RADIATED EMISSION TEST

8.1 Test set-up

The radiated emissions measurements were on the 3 m, open-field test site. 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.

8.2 Measurement uncertainty

Radiated emission electric field intensity, 30 MHz ~ 300 MHz : ± 4.43 dB

Radiated emission electric field intensity, 300 MHz ~ 1 000 MHz : ± 3.80 dB

Radiated emission electric field intensity, 1 000 MHz ~ 3 000 MHz: ± 4.4 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, $k = 2$.

8.3 Test equipment used

Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
□ - ESCI	Rohde & Schwarz	EMI Test Receiver	101012	Feb. 06, 2012 (1Y)
■ - ESU	Rohde & Schwarz	EMI Test Receiver	100261	Sep. 11, 2012 (1Y)
□ - 8564E	HP	Spectrum Analyzer	3650A00756	Apr. 04, 2012 (1Y)
□ - FSP	Rohde & Schwarz	Spectrum Analyzer	100017	Mar 12, 2012(1Y)
■ - 310N	Sonoma Instrument	AMPLIFIER	312544	Oct. 11, 2012(1Y)
■ - FSV30	Rohde & Schwarz	Signal Analyzer	101372	May 31, 2012(1Y)
■ - SCU-18	Rohde & Schwarz	PRE-AMPLIFIER	10041	Dec. 15, 2011 (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
■ - VULB9163	Schwarzbeck	TRILOG Broadband Antenna	VULB9163-255	Apr. 24, 2012(2Y)
■ - BBHA9120D	Schwarzbeck	Horn Antenna	BBHA9120D294	Jun. 17, 2011 (2Y)
■ - BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Jun. 17, 2011 (2Y)

All test equipment used is calibrated on a regular basis.

8.4 Final Result of Measurement

8.4.1 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 : 54 % R.H. Temperature: 25 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249(a)
 Result : PASSED

EUT : Single Modular Transmitter Date: November 13, 2012
 Operating Condition : TX mode
 Distance : 3 m

Channel	Radiated Emissions			Ant	Correction Factors			Total	FCC Limit	
	Carrier Freq. (MHz)	Amplitude (dBμV)	Detect Mode	Pol.	Antenna (dB/m)	Cable (dB)	Pre-Amp (dB)	Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low	2 402.00	98.62	Peak	H	27.15	5.02	43.10	87.69	113.98	-26.29
		96.79	Average	H				85.86	93.98	-8.12
		93.16	Peak	V				82.23	113.98	-31.75
		92.62	Average	V				81.69	93.98	-12.29
Middle	2 441.00	98.43	Peak	H	27.22	5.04	43.10	87.59	113.98	-26.39
		97.95	Average	H				87.11	93.98	-6.87
		93.91	Peak	V				83.07	113.98	-30.91
		92.76	Average	V				81.92	93.98	-12.06
High	2 480.00	98.08	Peak	H	27.28	5.06	43.10	87.32	113.98	-26.66
		96.15	Average	H				85.39	93.98	-8.59
		93.56	Peak	V				82.80	113.98	-31.18
		91.22	Average	V				80.46	93.98	-13.52

*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.



Tested by: Hong-Kyu, Lee/ Engineer

8.4.2 Emissions Radiated Outside of the Specified Frequency Bands

8.4.2.1 Test Data for Harmonic

Humidity Level : 54 % R.H.

Temperature: 25 °C

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

Result : PASSED

EUT : Single Modular Transmitter

Date: November 13, 2012

Operating Condition : TX mode

Distance : 3 m

Channel	Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Low	4 804.00*	55.26	Peak	H	31.14	6.90	42.80	50.50	73.98	-23.48
		45.85	Average	H				41.09	53.98	-12.89
		55.81	Peak	V				51.05	73.98	-22.93
		51.04	Average	V				46.28	53.98	-7.70
	Other frequencies were not found up to 25 GHz.									
Middle	4 882.00*	54.32	Peak	H	31.22	6.93	42.80	49.67	73.98	-24.31
		48.18	Average	H				43.53	53.98	-10.45
		53.93	Peak	V				49.28	73.98	-24.70
		51.10	Average	V				46.45	53.98	-7.53
	Other frequencies were not found up to 25 GHz.									
High	4 960.00*	54.87	Peak	H	31.30	6.97	42.80	50.34	73.98	-23.64
		52.70	Average	H				48.17	53.98	-5.81
		52.39	Peak	V				47.86	73.98	-26.12
		50.05	Average	V				45.52	53.98	-8.46
	Other frequencies were not found up to 25 GHz.									

Tabulated test data for Restricted Band

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



Tested by: Hong-Kyu, Lee/ Engineer

8.4.2.2 Test Data for Below 1 GHz

Humidity Level : 54 % R.H.

Temperature: 25 °C

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

Result : PASSED

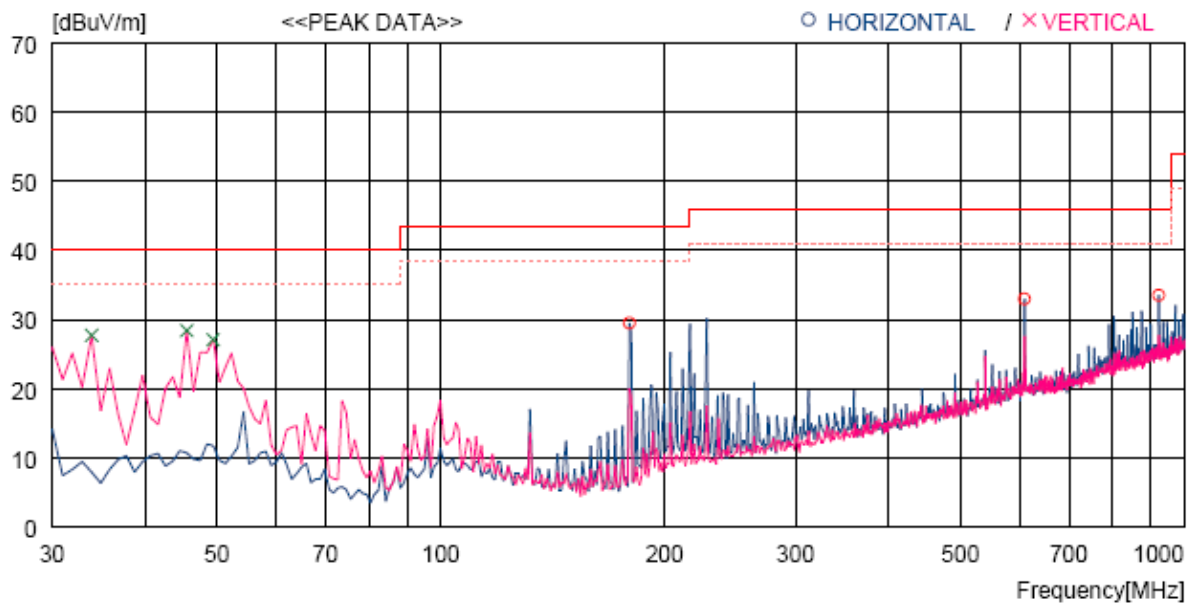
EUT : Single Modular Transmitter

Date: November 13, 2012

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

Operating condition : Low Channel

Graphical representation of Radiated Emission



Tabulated Results for Radiated Emission

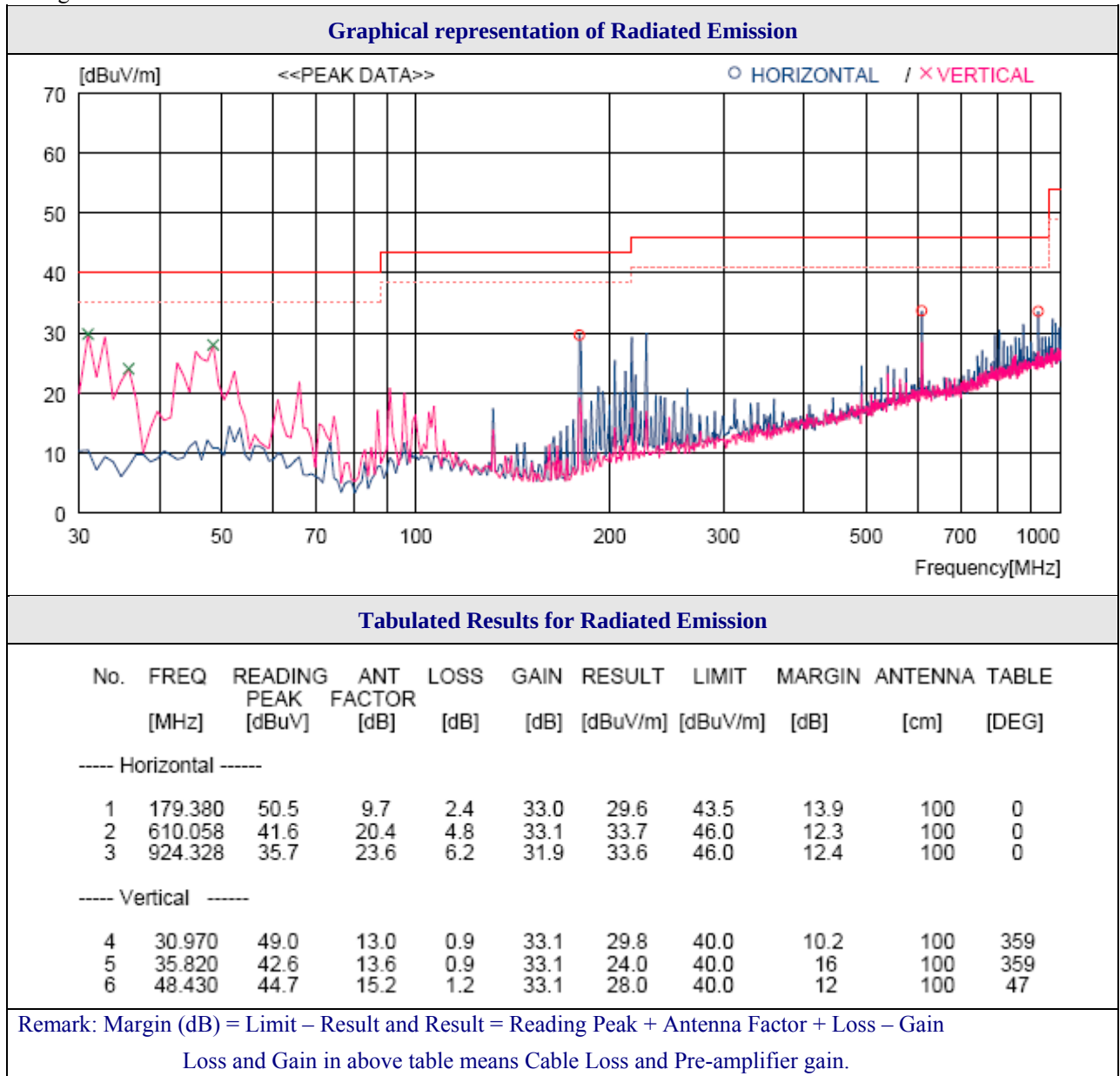
No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	179.380	50.4	9.7	2.4	33.0	29.5	43.5	14	100	0
2	610.058	40.9	20.4	4.8	33.1	33.0	46.0	13	100	161
3	924.328	35.6	23.6	6.2	31.9	33.5	46.0	12.5	100	38
----- Vertical -----										
4	33.880	46.6	13.3	0.9	33.1	27.7	40.0	12.3	100	359
5	45.520	45.1	15.3	1.1	33.1	28.4	40.0	11.6	100	220
6	49.400	43.9	15.1	1.2	33.1	27.1	40.0	12.9	100	359

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: Hong-Kyu, Lee/ Engineer

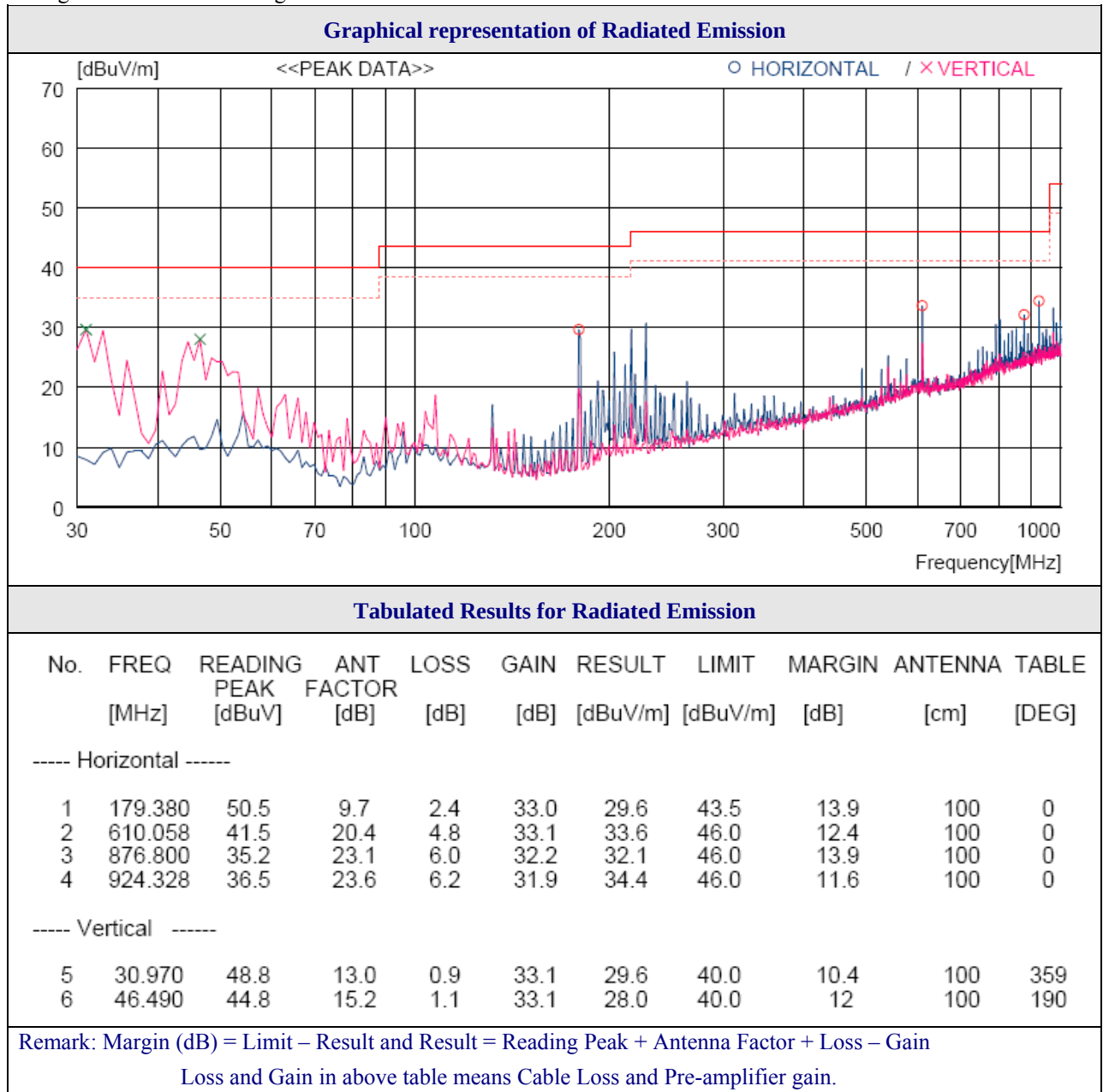
Operating condition : Middle Channel



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Tested by: Hong-Kyu, Lee/ Engineer

Operating condition : High Channel



01 30.970

Tested by: Hong-Kyu, Lee/ Engineer

8.4.2.3 Test Data for Below 30 MHz

Humidity Level : 54 % R.H. Temperature: 25 °C
Resolution bandwidth : 200 Hz (from 9 **k**Hz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
Frequency range : 9 kHz ~ 30 MHz
Measurement distance : 3 m
Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.249 (d)
Result : PASSED

EUT : Single Modular Transmitter Date: November 13, 2012
Detector : CISPR Quasi-Peak (Resolution Bandwidth: 9 kHz)

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
It was not observed any emissions from the EUT.									



Tested by: Hong-Kyu, Lee/ Engineer

8.4.2.3 Test Data above 1 GHz except for harmonic

- Test Date : November 13, 2012
- Humidity Level : 54 % R.H.
- Temperature : 25 °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 : PASSED

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
It was not observed any emissions from the EUT.									



Tested by: Hong-Kyu, Lee/ Engineer

8.4.2.4 Band Edge

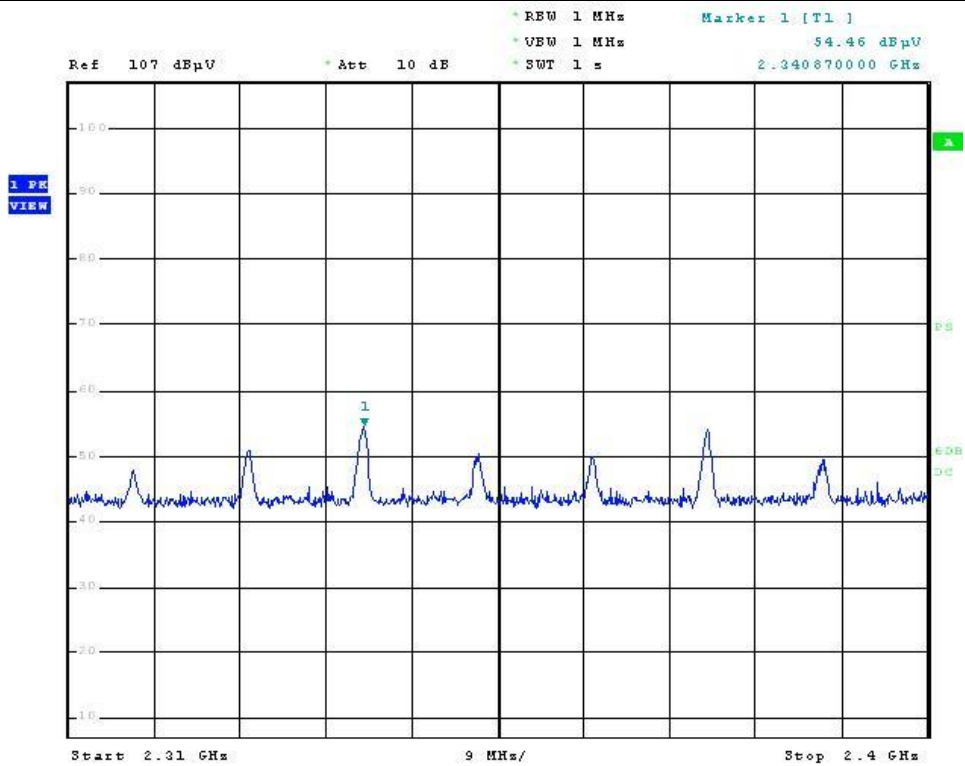
- Test Date : November 13, 2012
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Measurement distance : 3 m
- Operating Condition : Low / High Channel
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 340.87	54.46	Peak	H	27.05	3.14	43.10	41.55	74.00	-32.45
	47.95	Average	H				35.04	54.00	-18.96
2 340.96	51.64	Peak	V				38.73	74.00	-35.27
	46.75	Average	V				33.84	54.00	-20.16
Test Data for High Channel									
2 486.90	61.42	Peak	H	27.31	3.17	43.10	48.80	74.00	-25.20
	60.22	Average	H				47.60	54.00	-6.40
2 486.92	58.44	Peak	V				45.82	74.00	-28.18
	54.94	Average	V				42.32	54.00	-11.68



Tested by: Hong-Kyu, Lee/ Engineer

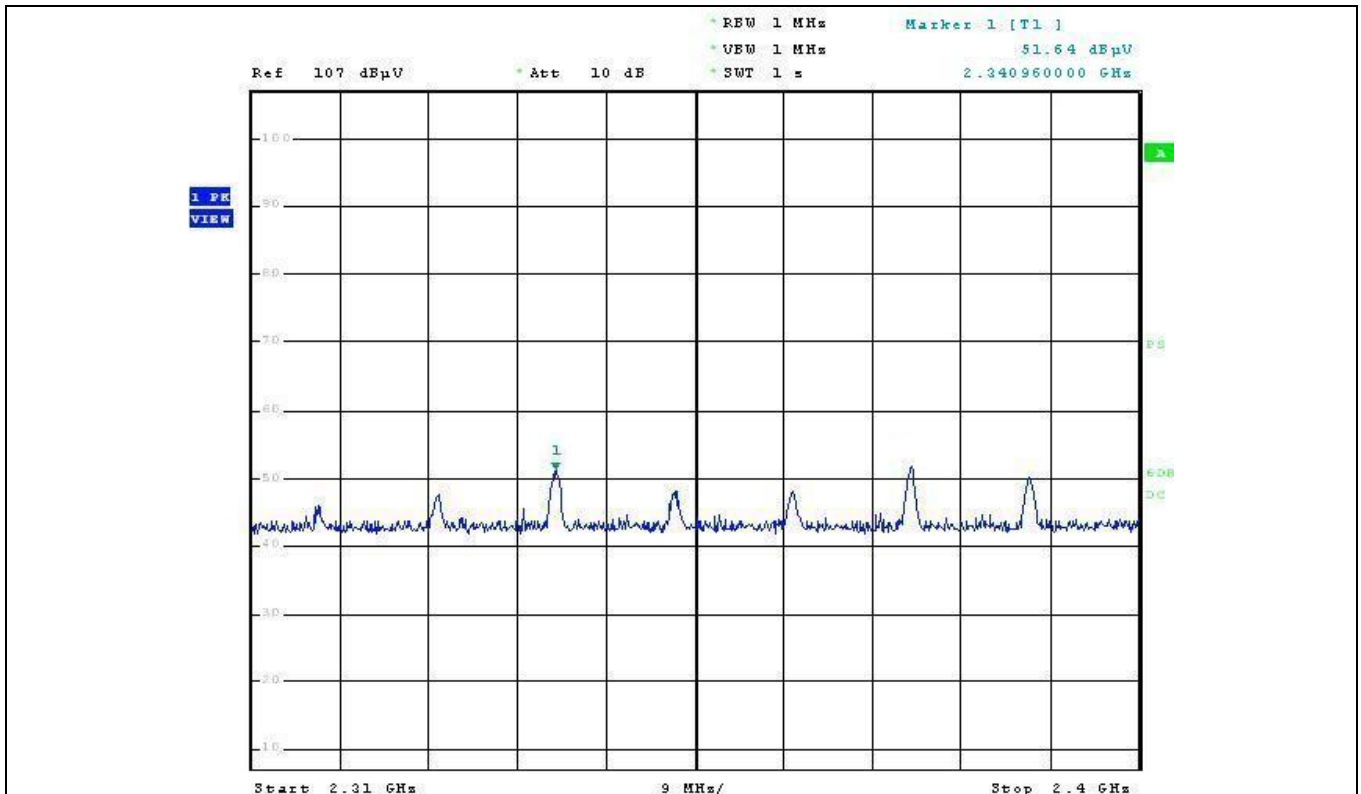
Graphical representation of Radiated Emission



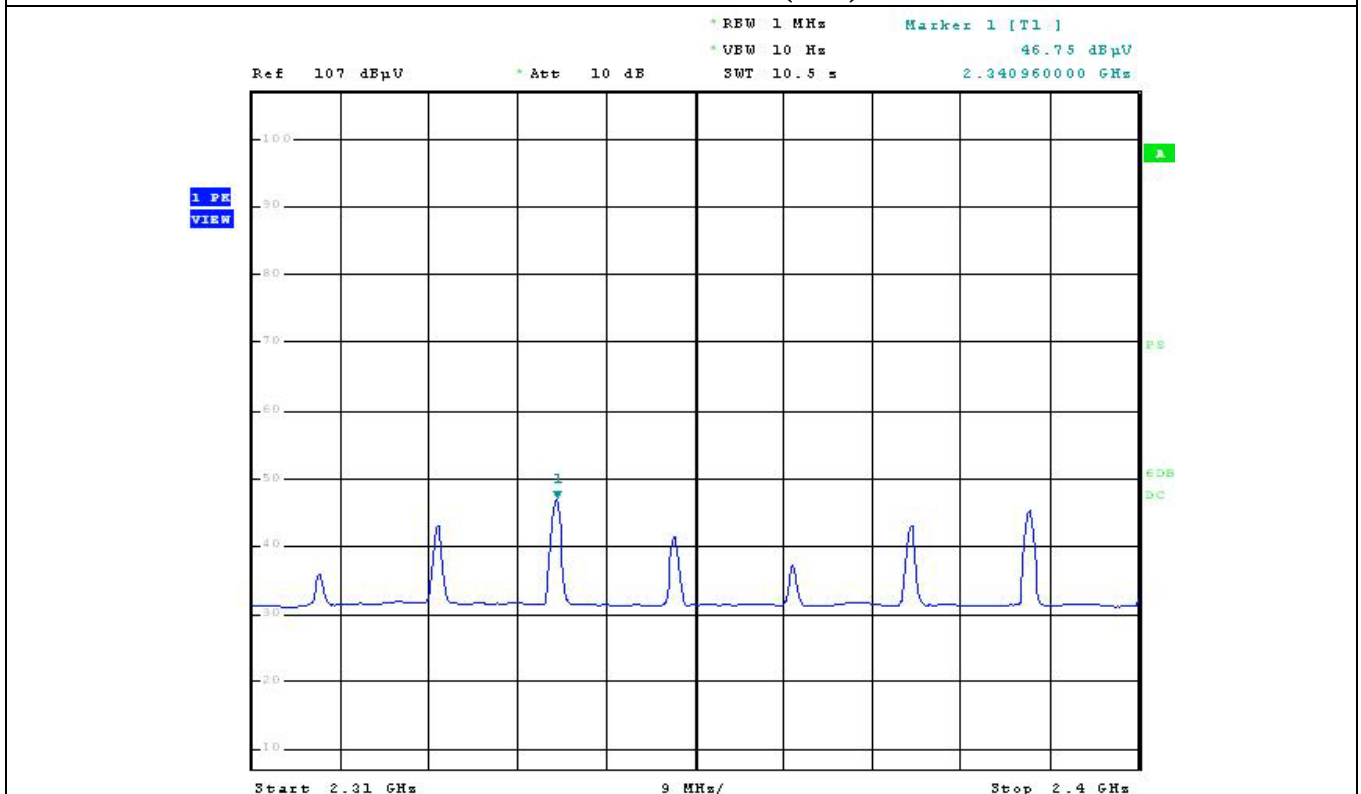
Low Channel – Horizontal (Peak)



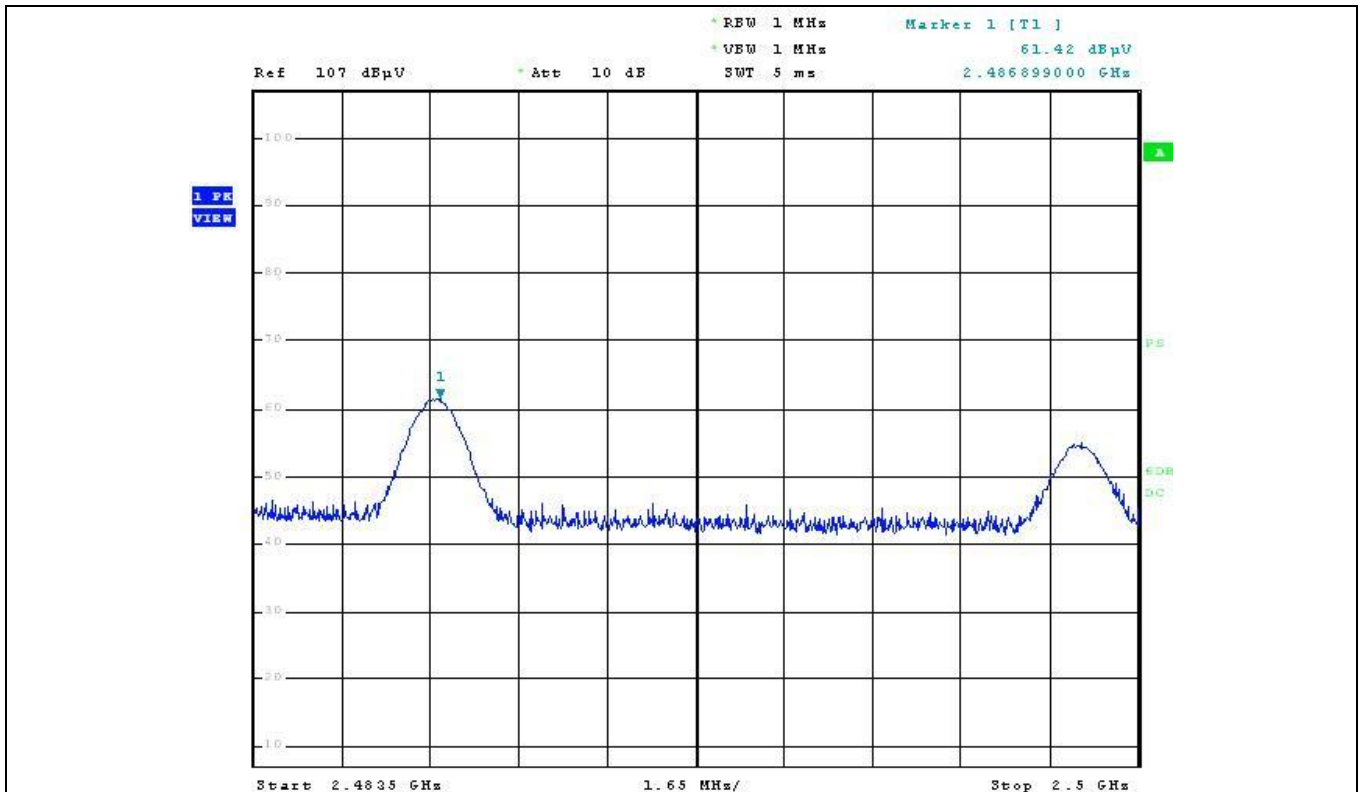
Low Channel – Horizontal (Average)



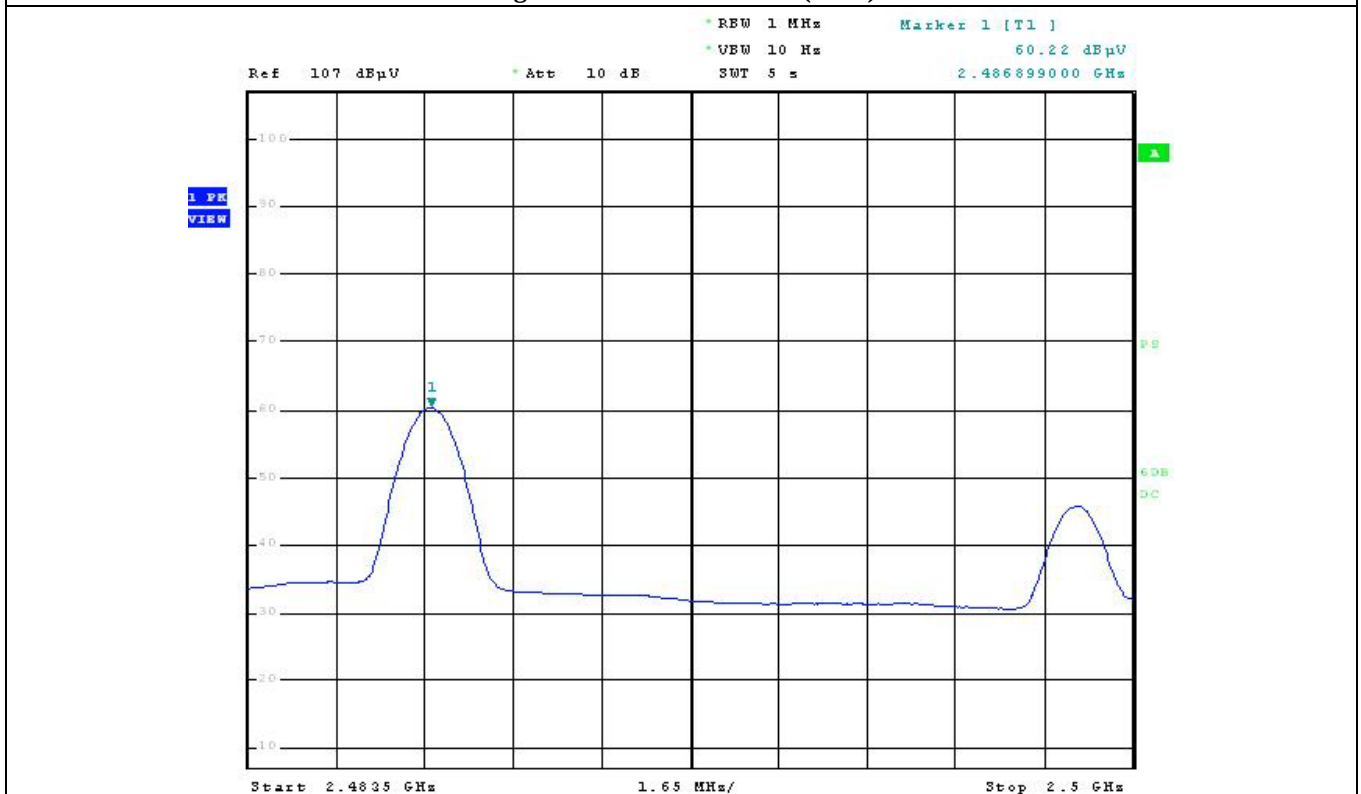
Low Channel – Vertical (Peak)



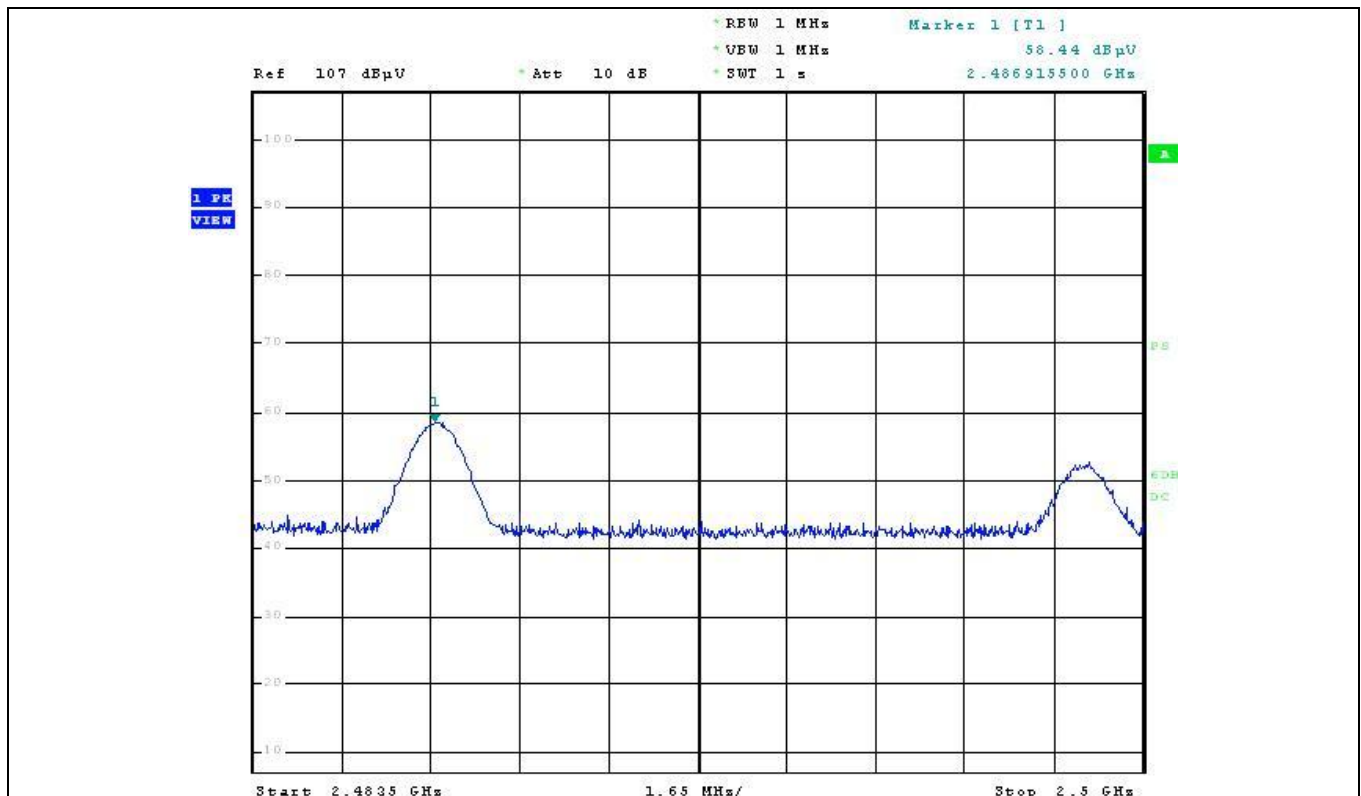
Low Channel – Vertical (Average)



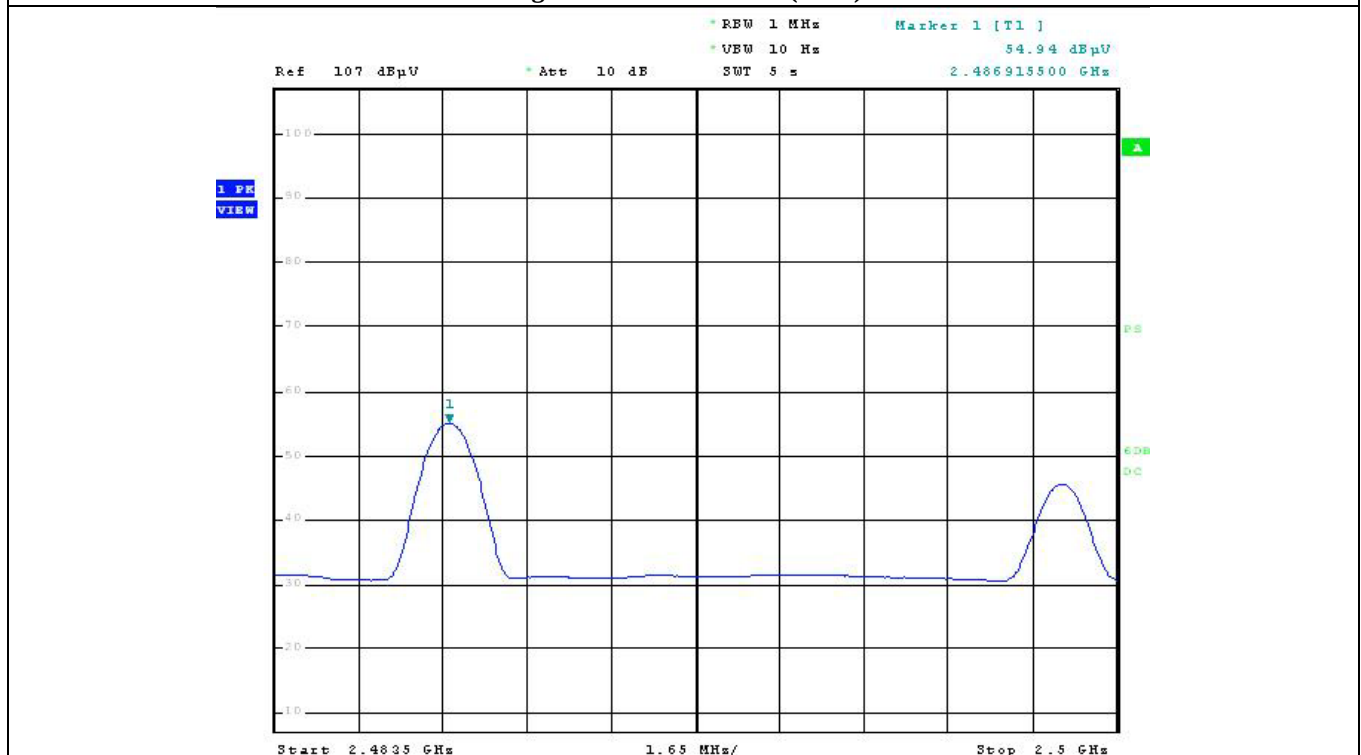
High Channel – Horizontal (Peak)



High Channel – Horizontal (Average)



High Channel – Vertical (Peak)



High Channel – Vertical (Average)

9. CONDUCTED EMISSION TEST

9.1 Operating environment

Temperature : 21 °C
Relative humidity : 43 % R.H.

9.2 Test set-up

The EUT was placed on a wooden table, 0.8 m height above the floor. The EUT was connected to adaptor and power of adaptor was fed to the EUT through a 50 Ω / 50 μ H + 5 Ω Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

9.3 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
□ -	ESiB26	R&S	Test Receiver	100296	Apr. 13, 2012 (1Y)
■ -	ESHS10	Rohde & Schwarz	Test Receiver	834467/007	Jun. 21, 2012 (1Y)
□ -	NSLK 8126	Schwarzbeck	AMN	8126-404	Jun. 11, 2012 (1Y)
■ -	NSLK 8128	Schwarzbeck	AMN	8128-216	Jun. 11, 2012 (1Y)
□ -	3825/2	EMCO	AMN	9109-1867	May 30, 2012 (1Y)
□ -	3825/2	EMCO	AMN	9109-1869	May 30, 2012 (1Y)
□ -	N/A	KNORR-BREMSE	Artificial Hand	12844	N/A

All test equipment used is calibrated on a regular basis.

9.4 Test data

- Test Date : November 16, 2012
- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Test Result : PASSED

Frequency (MHz)	Line	Peak (dBμV)		Margin (dB)
		Emission level	Q.P Limits	
0.15	N	42.11	66.00	23.89
0.50	N	32.85	56.08	23.23
0.80	N	38.34	56.00	17.66
9.55	N	38.81	60.00	21.19
22.00	H	38.63	60.00	21.37
23.07	N	40.05	60.00	19.95
Frequency (MHz)	Line	Average (dBμV)		Margin (dB)
		Emission level	Limits	
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Line Conducted Emissions Tabulated Data

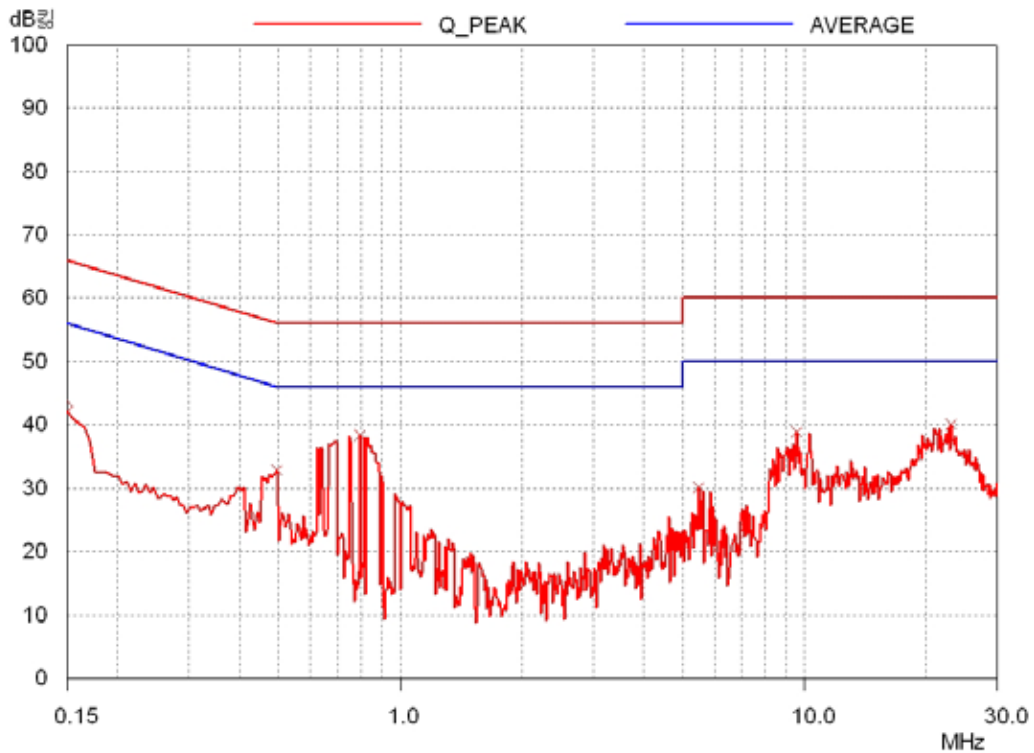
Remark : "H": Hot Line, "N": Neutral Line

See next page for an overview sweep performed with peak and average detector mode.

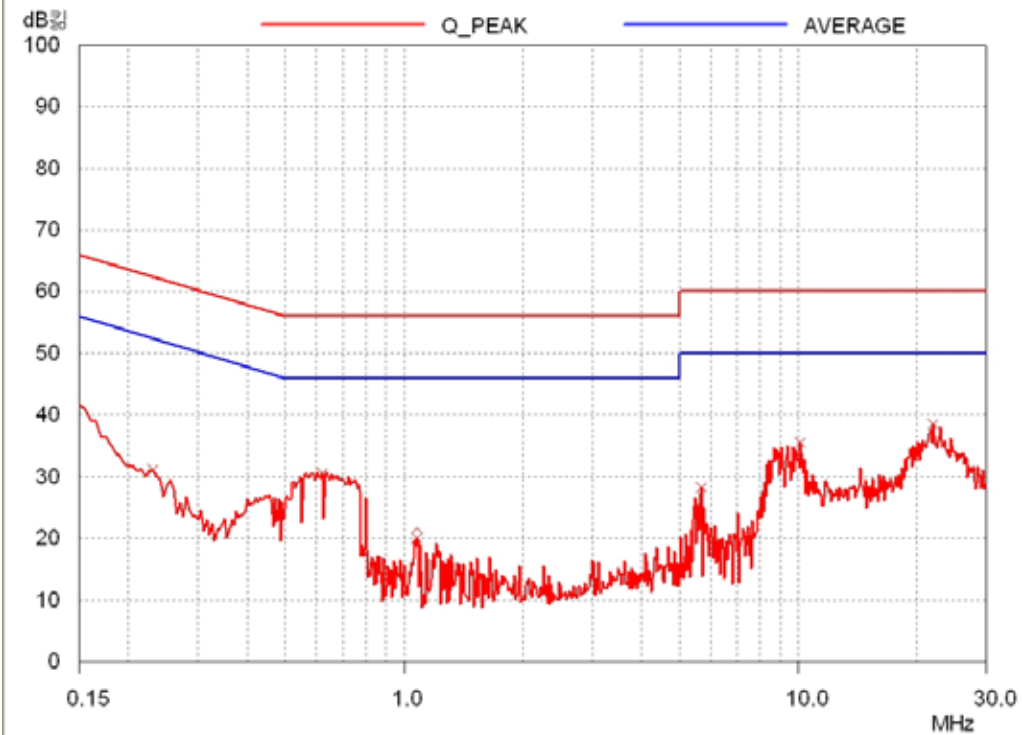


Tested by: Hong-Kyu, Lee/ Engineer

Graphical representation of Conducted Emission



HOT LINE



NEUTRAL LINE