RF TEST REPORT

Test report No.:	**EMC- FCC- R0003**
FCC ID:	**V5K-PXMRF-2A**
Type of equipment:	**Remote Switch**
Brand Name:	**POSKOM Co., Ltd**
Model Name:	**PXMRF-2A**
Applicant:	**POSKOM Co., Ltd**
FCC Rule Part(s):	**§15.231**
Frequency Range:	**433.7000 MHz ~ 433.8875 MHz**
Channel Separation:	**12.5 kHz**
Test result:	**Complied**

The above equipment was tested by EMC compliance Testing Laboratory for compliance with the requirements of FCC Rules and Regulations.
The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Date of test: Februrary 25, 2008 ~ Februrary 29 , 2008
Issued date: Februrary 29 , 2008

Tested by: KIM, CHANG MIN

Approved by: YOO, SUNG YOUNG .

82-1 Jeil-ri, Yangji-myun, Churingu, Yongin-city, Kyungki-do,Korea 449-825,
82 31 336 9919 (Main) 82 31 336 4767 (Fax)

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1. Client information

Applicant:	**POSKOM Co., Ltd**
Address:	Room 405, Unitech Ville Bldg., 1141-2 , Baeksuk-dong, Ilsan-dongu, Goyang, Korea
Telephone number:	+82(31)906-9007
Facsimile number :	+82(31)908-4208
Contact person:	Ki-Bong Sung / CTO

Manufacturer:	**POSKOM Co., Ltd**
Address:	Room 405, Unitech Ville Bldg., 1141-2 , Baeksuk-dong, Ilsan-dongu, Goyang, Korea
Telephone number:	+82(31)906-9007
Facsimile number :	+82(31)908-4208
Contact person:	Ki-Bong Sung / CTO

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2. Laboratory information

Address
EMC Compliance Ltd.
82-1, JEIL-RI, YANGJI-MYUN, CHURINGU, YONGIN-CITY, KYUNGGI-DO,
KOREA 449-825
Telephone Number: 82 31 336 9919 Facsimile Number: 82 31 336 4767

Certificate
CBTL Testing Laboratory, KOLAS NO.: 231
FCC Filing No.: 793334
VCCI Registration No.: C-1713, R-1606, T-258

SITE MAP

3. Description of E.U.T.

3.1 Basic description

Applicant :	POSKOM Co.,Ltd
Address of Applicant:	Room 405, Unitech Ville Bldg., 1141-2 ,Baeksuk-dong, Ilsan-dongu, Goyang, Korea
Manufacturer:	POSKOM Co.,Ltd
Address of Manufacturer:	Room 405, Unitech Ville Bldg., 1141-2 ,Baeksuk-dong, Ilsan-dongu, Goyang, Korea
Type of equipment:	Remote Switch
Basic Model:	PXMRF-2A
Brand name:	Poskom
Serial number:	Proto type

3.2 General description

Frequency Range	433.7000 MHz ~ 433.8875 MHz
Type of Modulation	FSK
Channel spacing	12.5 kHz
Channel capacity	16 ch
Type of Antenna	Wheep antenna
Power supply	DC 9V
Operating temperature	-10℃ ~ 50℃
Dimension	76 * 51* 20 mm
Weight	42 g

3.3 Test frequency

Frequency	**433.7875**

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4. Summary of test results

4.1 Standards & results

Rule Reference	Parameter	Status
Part 15 Subpart C		
15.231 (a)	Transmission Requirement	C
15.231 (b) 15.209	Radiated Emission	C
15.231 (c)	Occupied Bandwidth	C
15.231 (d)	Frequency Tolerance	NA
15.231 (e)	Periodic Alternate Field Strength Requirement	NA
15.207	Powerline conducted Emission	NA

Note: C=complies
NC= Not complies
NT=Not tested
NA=Not Applicable

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5. Test results

5.1 Transmission Requirement (15.231 (a))

5.1.1 Minimum Standard

15.231 (a) Continous transmissions such as voice, video or data transmissions are not permitted.

15.231 (a)(1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter with in not more than 5 seconds after being released.

15.231 (a)(2) A transmitter activated automatically shall cease transmission with in 5 seconds of activation.

15.231 (a)(3) Periodic transmissions at regular pre-determined intervals are not permitted. However polling supervisory transmissions to determine system integrity of transmitters used in security or safety applications are allowed if the periodic rate of transmission does not exceed one transmission of not more than one second duration per hour for each transmitter.

15.231 (a)(4) Intentional radiators which are employd for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal on alarm, may operated during the pendency of the alarm.

5.1.2 Test Result

Complies

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5.1.3 Test data

Rational for compliance with Transmission Requirement

15.231 (a)(1): The transmitter is deactivated within 240 miliseconds.

15.231 (a)(2): No automatic activation.

15.231 (a)(3): No Periodic Transmission.

15.231 (a)(4): 240 miliseconds activation.

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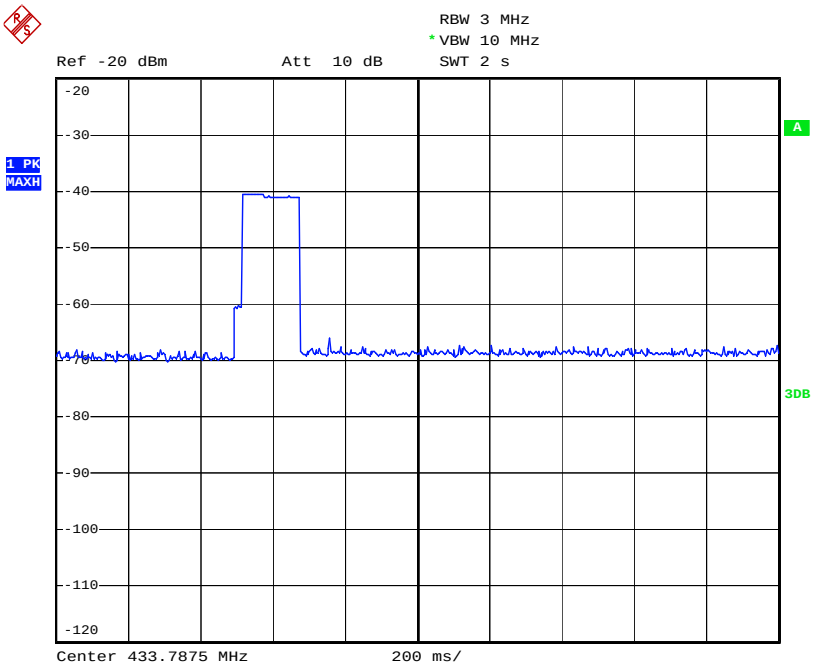
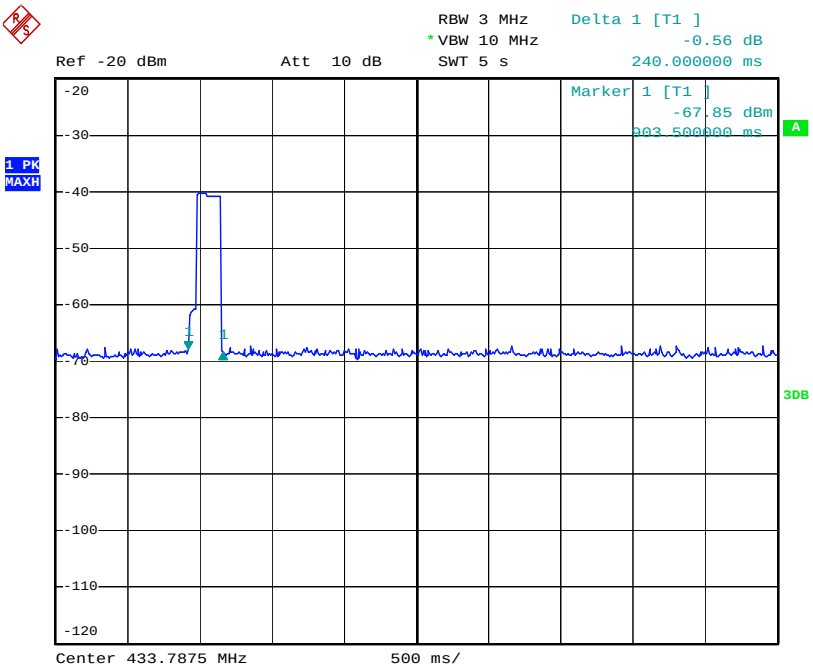
- duty cycle : 100%



- activation : manual operation- 240ms



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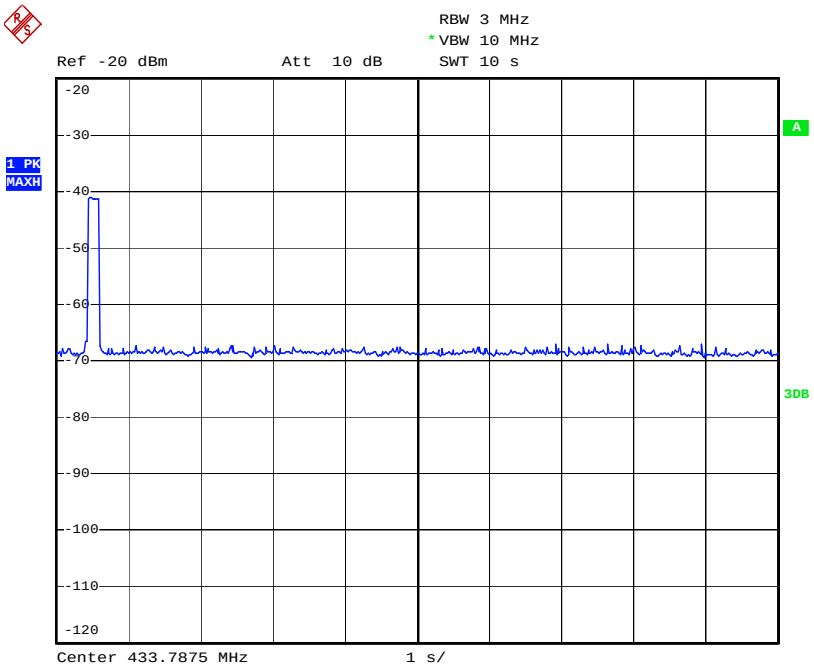
- No Periodic operation



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5.2 Field Strength of Emission (15.231 (b))

5.2.1 Minimum Standard

Fundamental Frequency (MHz)	Field Strength of Fundamental (uV/m@ 3m)	Field Strength of Spurious Emission (uV/m@ 3m)
40.66 -40.70	2250	225
70-130	1250	125
130-174	1250 to 3750*	125 to 375*
174-260	3750	375
260-470	3750 to 12500*	375 to 1250*
Above 470	12500	1250

*Linear interpolations.

5.2.2 Test Result

Complied

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5.2.3 Measurement Data

Measurement Distance :3m (OATS)

Freq (MHz)	Pol	Reading (dBuV)	Correction Factor (dB)	AMP Gain (dB)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
433.7875	H	43.7	19.74	-	61.24	80.8	17.36
867.5750	H	0.0	28.36	-	28.36	60.8	32.44
1301.3625	H	44.8	28.40	34.4	38.84	54.0	15.16
1735.1500	H	46.3	29.35	34.3	41.38	60.8	19.42
2168.9375	H	44.1	32.11	34.3	41.93	60.8	18.87
2602.7250	H	45.9	32.40	34.5	43.81	60.8	16.99
3036.5125	H	45.2	34.02	34.9	44.27	60.8	16.53
3470.3000	H	44.3	35.72	34.9	45.12	60.8	15.68
3904.0875	H	43.1	38.03	34.8	46.33	54.0	7.67
4337.8750	H	43.0	38.42	35.0	46.42	54.0	7.58

Remarks
No other emissions were detected at a level greater than 20 dB below limit.

Emission Level = Ant Factor(dB) + Cable Loss(dB) + Reading(dBuV)
Margin = Limit(dB)- Emission Level(dBuV/m)

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5.3 Occupied bandwidth (15.231 (c))

5.3.1 Minimum Standard

15.231(c) The bandwidth of the emission shall ve no wider than 0.25 % of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz , the emission shall be no wider than 0.5 % of the center frequency. Bandwidth is determined at the point 20 dB down from the modulated carrier.

-Limit: 433.7875 MHz * 0.0025= 1.085 MHz

5.3.2 Test Result

- Complied

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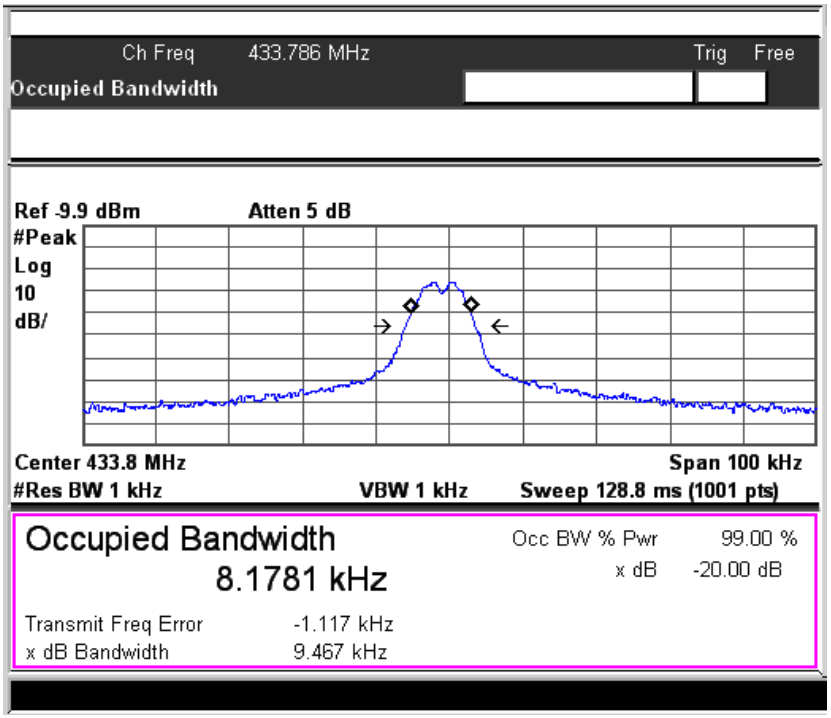
5.3.3 Measurement Data

- Occupied bandwidth: 9.467 kHz



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6. Test equipment used for test

	Description	Manufacture	Model No.	Serial No.	Next Cal Date.
☐	Temp & humidity chamber	taekwang	TK-04	TK001	08.12.12
☐	Temp & humidity chamber	taekwang	TK-500	TK002	08.09.06
☐	Power Meter	Agilent	E4416A	GB41292365	08.11.02
☐	Frequency Counter	HP	5351B	3049A01295	08.11.02
■	Spectrum Analyzer	Agilent	E4407B	US39010142	08.11.02
■	Spectrum Analyzer	R & S	FSP40	100209	08.11.19
■	Signal Generator	HP	E4432B	GB39340611	08.11.02
☐	Modulation Analyzer	HP	8901B	3538A05527	08.11.08
☐	Function Generator	Agilent	33120A	US36018826	08.11.02
☐	Audio Analyzer	HP	8903B	3011A10372	08.11.02
☐	Audio Analyzer	HP	8903B	3729A18248	08.11.02
☐	AC Power Supply	KIKUSUI	PCR2000W	GB001619	08.11.02
■	DC Power Supply	Tektronix	PS2520G	TW50517	09.02.15
☐	DC Power Supply	Tektronix	PS2521G	TW53135	08.11.02
☐	Dummy Load	BIRD	8141	7560	-
☐	Dummy Load	BIRD	8401-025	799	-
■	EMI Test Receiver	R&S	ESCI	100001	08.11.16
■	Attenuator	HP	8494A	2631A09825	08.11.06
■	Attenuator	HP	8496A	3308A16640	08.11.06
☐	Attenuator	R&S	RBS1000	D67079	08.11.05
☐	Attenuator	BIRD	50-A-MFN-20	0403002	08.11.02
☐	Attenuator	HP	11581A	29738	09.01.08
☐	Power sensor	Agilent	E9321A	US40390422	08.11.03
☐	Power sensor	Agilent	E9325A		08.11.03
☐	LOOP Antenna	EMCO	EMCO6502	9205-2745	09.05.28
■	BILOG Antenna	Schwarzbeck	VULB 9160	3138	10.02.21
■	HORN Antenna	ETS	3115	00086706	09.12.13
☐	Power Divider	HP	11636A	05441	08.11.07
☐	Signal Generator	HP	E4421B	GB40052295	08.11.02
☐	Signal Generator	IFR	IFR2023A	202304/278	08.05.03
☐	Power Divider	Weinschel	1580-1	NX375	08.11.07
☐	Power Divider	Weinschel	1580-1	NX379	07.10.31
☐	Power Divider	Weinschel	1580-1	NX380	08.11.16
■	PRE-AMP	AGILENT	8449B	3008A02343	09.02.15

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