

Tel:(86) 755-26825180 Fax:(86) 755-86170310

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Test Report

Product Name: UHF RFID Reader

FCC ID: XNO-RFID308X

MODEL NO. : HKRUR-3083, HKRUR-3081

Applicant:

Hong Kong RFID Ltd.
Unit 207A, 2/F, Building 9, No.5 Science Park West Avenue,
Hong Kong Science Park, Shatin, N.T., Hong Kong

Date Received: 08/17/2009

Date Tested: 08/15-16/2009

APPLICANT: Hong Kong RFID Ltd.



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FCC ID: XNO-RFID308X

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APPLICANT: Innovation Specialties



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# EMC Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
					Interval
EMI Test Receiver	ROHDE&SCHWARZ		100492	Mar 10,2009	1 Year
LISN	ROHDE&SCHWARZ		100093	Mar 10,2009	1Year
EMI Test Receiver	ROHDE&SCHWARZ		101202	Mar 10,2009	1 Year
Spectrum Analyzer	ANRITSU	MS2651B		Mar 10,2009	1 Year
50 Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar 10,2009	1 Year
Bilog Antenna	Sunol	JB3	A121206	Mar 10,2009	1 Year
Horn Antenna	EMCO	3115	640201028-0 6	Mar 10,2009	1 Year
50 Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar 10,2009	1 Year
Cable	Resenberger	N/A	NO.1	Mar 10,2009	1 Year
Cable	SCHWARZBECK	N/A	NO.2	Mar 10,2009	1 Year
Cable	SCHWARZBECK	N/A	NO.3	Mar 10,2009	1 Year
Single Phase Power	Kikusui	LIN40MA-PC	LM002352	Mar 10,2009	1Year
Line Filter		R-L			
AC Power Source	Kikusui	AC40MA	LM003232	Mar 10,2009	1Year
Test analyzer	Kikusui	KHA1000	LM003720	Mar 10,2009	1Year
ESD Tester	Kikusui	KES4021	LM003537	Mar 10,2009	1 Year
Signal Generator	IFR	2032	203002/100	Mar 10,2009	1 Year
Amplifier	A&R	150W1000	301584	NCR	NCR
Dual Directional	A&R	DC6080	301508	Mar 10,2009	1 Year
Coupler					
Power Head	A&R	PH2000	301193	Mar 10,2009	1 Year
Power Meter	A&R	PM2002	302799	Mar 10,2009	1 Year
Field Monitor	A&R	FM5004	300329	Mar 10,2009	1 Year
Field Probe	A&R	FP5000	300221	Mar 10,2009	1 Year
EMCPRO System	EM Test	UCS-500-M4	V064810202 6	Mar 10,2009	1 Year
EMCPRO System	EM Test	UCS-500-M4	V064810202 6	Mar 10,2009	1 Year
Spectrum Analyzer	Agilent	E4446A	US44300459	Mar 10,2009	1 Year
Attenuator	Agilent	8491B	MY39262165	Mar 10,2009	1 Year

# Remark:

Test Firm Name: Most Technology Service Co., Ltd.

Test Firm Address:

No. 5, 2nd Langshan Road, North District, Hi-tech Industrial Pa

rk, Nanshan, Shenzhen, Guangdong, China

FCC Registered Test Site Number: 490827

APPLICANT: Hong Kong RFID Ltd.



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## TEST PROCEDURE

**GENERAL:** This report shall NOT be reproduced except in full without the written approval of MOST TECHNOLOGY SERVICE CO., LTD. The EUT was transmitting a test signal during the testing.

**POWER LINE CONDUCTED INTERFERENCE:** The test procedure used was ANSI Standard C63.4-2003 using a 50 U H LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25 with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3 MHz above 1 GHz. The ambient temperature of the EUT was 25 with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings were converted to average readings based on the duration of "ON" time.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard  $C63.4-2003\ 10.1.7$  with the EUT 40 cm from the vertical ground wall.

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APPLICANT: Hong Kong RFID Ltd.

FCC ID: XNO-RFID308X

NAME OF TEST: POWER LINE CONDUCTED INTERFERENCE

**RULES PART NUMBER:** 15.207(a), DA 00-705

**REQUIREMENTS:** 

Frequency of Emission (MHz)

0.15-0.5

0.5-5

Conducted Limit (dBuV)

Quasi-peak

Average

56 to 46 \*

66 to 56 \*

56 to 46 \*

60

50

5-30

TEST PROCEDURE: ANSI STANDARD C63.4-2003

APPLICANT: Hong Kong RFID Ltd.

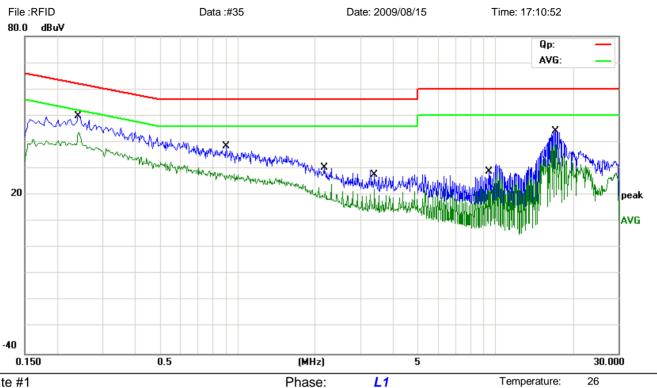
<sup>\*</sup> Decreases with the logarithm of the frequency.

Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park

Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310

## **Conducted Emission Measurement**



Power: DC 9V Adaptor AC 120V/60Hz

Site site #1

Limit: FCC Part 15C QP

EUT: UHF RFID Reader M/N: HKRUR-3083

Mode: Running

Note:

			Dooding	Corroct	Measure-				
No.	Mk.	Freq.	Reading Level	Correct Factor	ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2420	38.26	11.72	49.98	62.03	-12.05	QP	
2		0.9060	28.41	10.00	38.41	56.00	-17.59	QP	
3		2.1700	21.08	9.17	30.25	56.00	-25.75	QP	
4		3.4100	17.25	10.41	27.66	56.00	-28.34	QP	
5		9.4980	19.51	9.30	28.81	60.00	-31.19	QP	
6		17.1780	35.17	9.00	44.17	60.00	-15.83	QP	

APPLICANT: Hong Kong RFID Ltd.

FCC ID: XNO-RFID308X

60 %

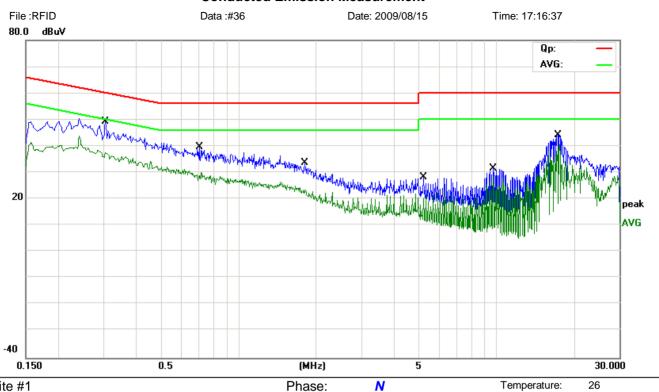
Humidity:

<sup>\*:</sup>Maximum data x:Over limit !:over margin

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## **Conducted Emission Measurement**



Power: DC 9V Adaptor AC 120V/60Hz

Site site #1

Limit: FCC Part 15C QP

EUT: UHF RFID Reader M/N: HKRUR-3083

Mode: Running

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.3060	38.07	11.29	49.36	60.08	-10.72	QP	
2		0.7060	29.61	10.00	39.61	56.00	-16.39	QP	
3		1.8180	24.58	9.18	33.76	56.00	-22.24	QP	
4		5.2220	16.40	11.87	28.27	60.00	-31.73	QP	
5		9.7220	22.53	9.17	31.70	60.00	-28.30	QP	
6		17.3780	35.05	9.00	44.05	60.00	-15.95	QP	

APPLICANT: Hong Kong RFID Ltd.

FCC ID: XNO-RFID308X

60 %

Humidity:

<sup>\*:</sup>Maximum data x:Over limit !:over margin



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APPLICANT: Hong Kong RFID Ltd.

FCC ID: XNO-RFID308X

NAME OF TEST: RADIATION INTERFERENCE

**RULES PART NUMBER:** 15.209(a), DA 00-705

## **REQUIREMENTS:**

30-88 MHz 40 dBuV/m @3m 88-216 MHz 43.5 dBuV/m @3m 216-960 MHz 46 dBuV/m @3m 960-1000 MHz 54 dBuV/m @3m

Above 1000MHz 74 dBuV/m(Peak) @3m, 54 dBuV/m(AV) @3m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 Db BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

REMARK: 1. After the preliminary test for all channels, CHO (903MHz), CH25 (915MHz), CH50 (927MHz) was found to produce the highest emission level. Then, the EUT configuration and cable configuration of the CHO (903MHz), CH25 (915MHz), CH50 (927MHz) test mode of highest emission mode was chosen for all final test item

2. Emissions attenuated more than  $20\ dB$  below the permissible value are not reported.

Frequency	Antenna	Emission Lev	rel (dBuV/m)		FCC 15 Subpart C						
(MHz)	Polarization	Avg	QP	Peak	Limit(dBuV/m)						
	Low CH(903MHz)										
47.32	Vertical		33.76	36.32	40.0						
1806.01	Vertical	34.23		36.04	54.0						
2709.04	Vertical			35.50	54.0						
3612.06	Vertical			35.23	54.0						
4515.02	Vertical			34.63	54.0						
5418.00	Vertical			34.40	54.0						
6321.03	Vertical			32.09	54.0						
7224.04	Vertical			32.17	54.0						
8127.01	Vertical			30.19	54.0						
9030.02	Vertical			29.85	54.0						
109.47	Horizontal		32.65	35.89	43.5						
1806.01	Horizontal	33.87		36.23	54.0						
2709.03	Horizontal			35.29	54.0						
3612.05	Horizontal			34.54	54.0						
4515.02	Horizontal			34.20	54.0						
5418.00	Horizontal			33.42	54.0						
6321.04	Horizontal			32.09	54.0						
7224.07	Horizontal			30.30	54.0						
8127.01	Horizontal			30.57	54.0						
9030.02	Horizontal			29.43	54.0						

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NAME OF TEST: RADIATION INTERFERENCE

**RULES PART NUMBER:** 15.209(a), DA 00-705

## **REQUIREMENTS:**

30-88 MHz 40 dBuV/m @3m 88-216 MHz 43.5 dBuV/m @3m 216-960 MHz 46 dBuV/m @3m 960-1000 MHz 54 dBuV/m @3m Above 1000MHz 74 dBuV/m(Peak) @3m, 54 dBuV/m(AV) @3m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 Db BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

REMARK: 1. After the preliminary test for all channels, CHO (903MHz), CH25 (915MHz), CH50 (927MHz) was found to produce the highest emission level. Then, the EUT configuration and cable configuration of the CHO (903MHz), CH25 (915MHz), CH50 (927MHz) test mode of highest emission mode was chosen for all final test item

2. Emissions attenuated more than  $20\ dB$  below the permissible value are not reported.

Frequency	Antenna	Emission Le	evel (dBuV/m)		FCC 15 Subpart C					
(MHz)	Polarization	Avg	QP	Peak	Limit(dBuV/m)					
					, , ,					
	Middle CH(915.00MHz)									
47.40	Vertical		33.49	36.53	40.0					
1830.00	Vertical	34.23		36.02	54.0					
2745.00	Vertical	33.56		36.03	54.0					
3660.00	Vertical			35.72	54.0					
4575.00	Vertical			34.54	54.0					
5490.00	Vertical			34.44	54.0					
6405.00	Vertical			32.21	54.0					
7320.00	Vertical			32.20	54.0					
8235.00	Vertical			30.23	54.0					
9150.00	Vertical			29.79	54.0					
109.31	Horizontal		33.04	36.09	43.5					
1830.00	Horizontal	34.07		36.23	54.0					
2745.00	Horizontal	33.86		36.30	54.0					
3660.00	Horizontal			34.24	54.0					
4575.00	Horizontal			33.87	54.0					
5490.00	Horizontal			33.32	54.0					
6405.00	Horizontal			32.19	54.0					
7320.00	Horizontal			30.32	54.0					
8235.00	Horizontal			30.60	54.0					
9150.00	Horizontal			29.42	54.0					

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NAME OF TEST: RADIATION INTERFERENCE

**RULES PART NUMBER:** 15.209(a), DA 00-705

## **REQUIREMENTS:**

30-88 MHz 40 dBuV/m @3m 88-216 MHz 43.5 dBuV/m @3m 216-960 MHz 46 dBuV/m @3m 960-1000 MHz 54 dBuV/m @3m

Above 1000MHz 74 dBuV/m(Peak) @3m, 54 dBuV/m(AV) @3m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 Db BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

REMARK: 1. After the preliminary test for all channels, CHO (903MHz), CH25 (915MHz), CH50 (927MHz) was found to produce the highest emission level. Then, the EUT configuration and cable configuration of the CHO (903MHz), CH25 (915MHz), CH50 (927MHz) test mode of highest emission mode was chosen for all final test item

2. Emissions attenuated more than 20 dB below the permissible value are not reported.

Frequency	Antenna	Emission	Level (dBuV/m)	FCC 15 Subpart C	
(MHz)	Polarization	Avg	QP	Peak	Limit(dBuV/m)
		Hi	gh CH(927MHz)		
47.15	Vertical		34.50	36.64	40.0
1854.00	Vertical	34.16		36.32	54.0
2781.00	Vertical	33.93		36.04	54.0
3708.00	Vertical			35.70	54.0
4635.00	Vertical			34.53	54.0
5562.00	Vertical			34.57	54.0
6489.00	Vertical			32.20	54.0
7416.00	Vertical			32.34	54.0
8343.00	Vertical			30.28	54.0
9270.00	Vertical			29.80	54.0
109.80	Horizontal		34.11	36.16	43.5
1854.00	Horizontal	34.09		36.24	54.0
2781.00	Horizontal	33.43		36.32	54.0
3708.00	Horizontal			34.26	54.0
4635.00	Horizontal			33.89	54.0
5562.00	Horizontal			33.31	54.0
6489.00	Horizontal			32.19	54.0
7416.00	Horizontal			31.22	54.0
8343.00	Horizontal			31.64	54.0
9270.00	Horizontal			30.57	54.0

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TEST PROCEDURE: ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector and an appropriate antenna. The resolution bandwidth of spectrum analyzer was 100 kHz below 1 GHz and 1 MHz above 1 GHz. An appropriate sweep speed was used. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The spectrum was searched to at least the tenth (10) harmonic of the fundamental.

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APPLICANT: Hong Kong RFID Ltd.

FCC ID: XNO-RFID308X

NAME OF TEST: 20dB Bandwidth Test

**RULES PART NUMBER:** 15.247(a)(1)(i), DA 00-705

REQUIREMENTS: The 20dB bandwidth must be less than 250kHz.

REMARK: After the preliminary test for all channels, CHO (903MHz), CH25

(915MHz), CH50 (927MHz) was found to produce the worst frequency

output. Then, the EUT configuration and cable configuration of the CHO

(903MHz),CH25 (915MHz), CH50 (927MHz) test mode was chosen for

all final test item

# TEST RESULTS:

Test Frequency (MHz)	20dB Bandwidth (kHz)	Limit (kHz)	Conclusion
Low CH:903.00MHz	124	250	PASS
Middle CH:915.00MHz	123	250	PASS
High CH:927.00MHz	128	250	PASS

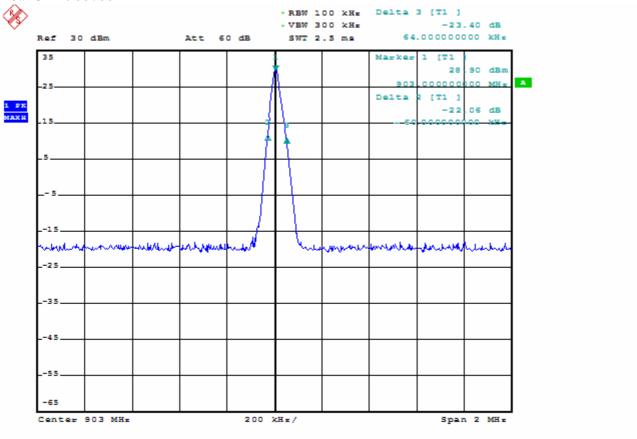
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Low CH: 903.00MHz



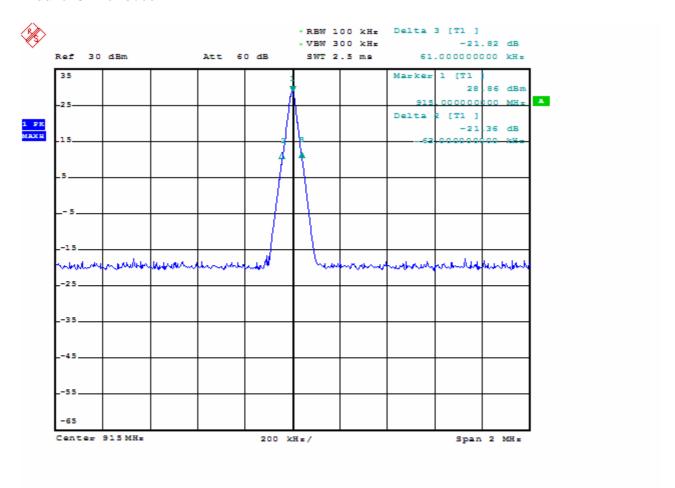
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Middle CH: 915.00MHz



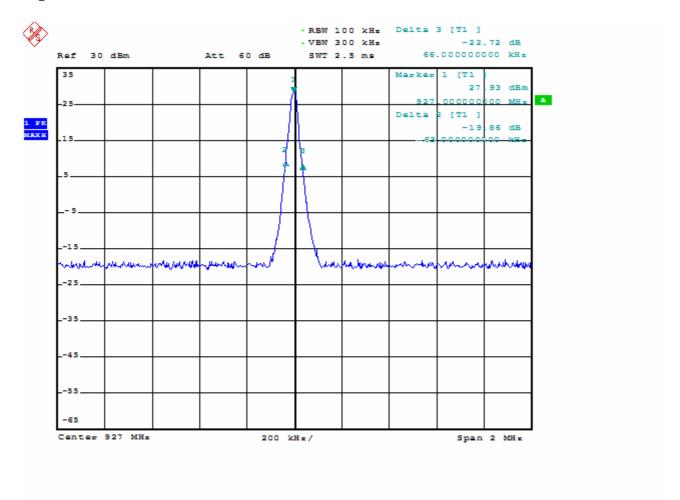
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High CH: 927.00MHz



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APPLICANT: Hong Kong RFID Ltd.

FCC ID: XNO-RFID308X

NAME OF TEST: Number of Hopping Frequency Test

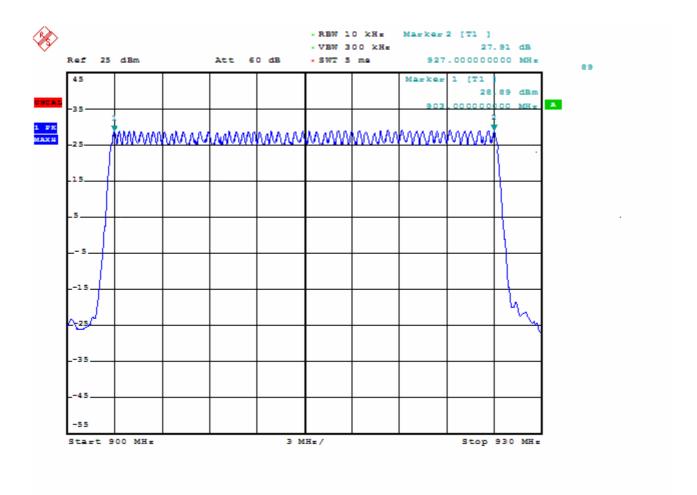
**RULES PART NUMBER:** 15.247(a)(1)(i), DA 00-705

REQUIREMENTS: If the 20dB bandwidth is less than 250KHz, the system shall use at least

50 hopping frequencies. If the 20dB bandwidth is  $250 \mathrm{kHz}$  or greater, the

system shall use at least 25 hopping frequencies.

TEST RESULTS: There are 51 hopping channels



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FCC ID: XNO-RFID308X

NAME OF TEST: Dwell Time of A Hopping Channel Test

RULES PART NUMBER: 15.247(a)(1)(i), DA 00-705

REQUIREMENTS: If the 20Db bandwidth is less than 250kHz, Dwell time<=0.4

Seconds in a 20 second period. If the 20Db bandwidth is 250kHz or greater, Dwell time<=0.4 seconds in a 10 second

Period.

**REMARK:** After the preliminary test for all channels, CHO (903MHz), CH25

(915MHz), CH50 (927MHz) was found to produce the worst frequency

output. Then, the EUT configuration and cable configuration of the CH0  $(903 \mathrm{MHz})$ , CH25  $(915 \mathrm{MHz})$ , CH50  $(927 \mathrm{MHz})$  test mode was chosen for

all final test item

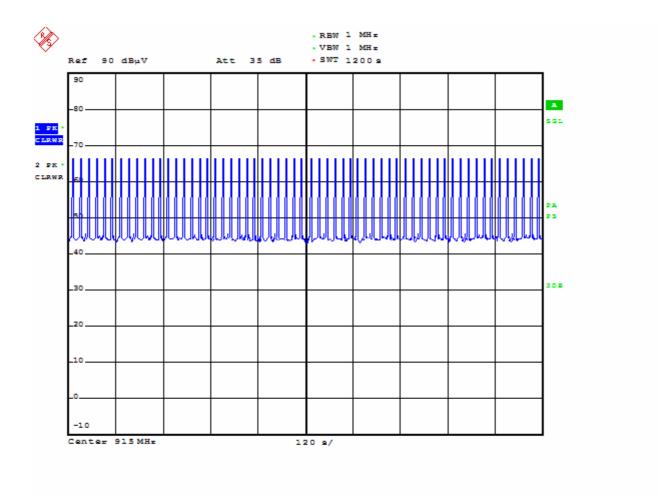
TEST RESULTS: Dwell time=60 timies/1200s\*20s\*46ms=46ms

APPLICANT: Hong Kong RFID Ltd.



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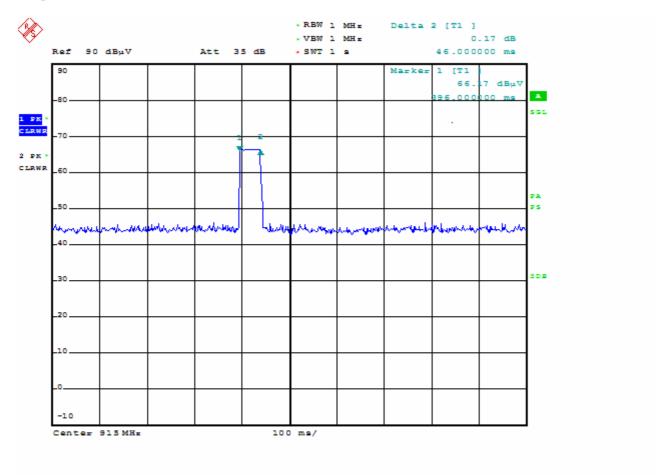


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APPLICANT: Hong Kong RFID Ltd.

FCC ID: XNO-RFID308X

NAME OF TEST: Carrier Frequency Separation Test

RULES PART NUMBER: 15.247(a)(1), DA 00-705

REQUIREMENTS: Frequency hopping systems shall have hopping channel carrier frequencies

separated by a minimum of 25KHz or the 20dB Bandwidth

Of the hopping channel, whichever is greater.

**REMARK:** After the preliminary test for all channels, CHO (903MHz), CH25

(915MHz), CH50 (927MHz) was found to produce the worst frequency

output. Then, the EUT configuration and cable configuration of the CHO

 $(903 \mathrm{MHz}), \mathrm{CH25}$   $(915 \mathrm{MHz}), \mathrm{CH50}$   $(927 \mathrm{MHz})$  test mode was chosen for

all final test item

## TEST RESULTS:

Test Frequency (MHz)	Carrier Frequency Separation (kHz)	Limit (kHz)	Conclusion
Low CH:903.00MHz	480	>128	PASS
Middle CH:914.52MHz	480	>128	PASS
High CH:927.00MHz	480	>128	PASS

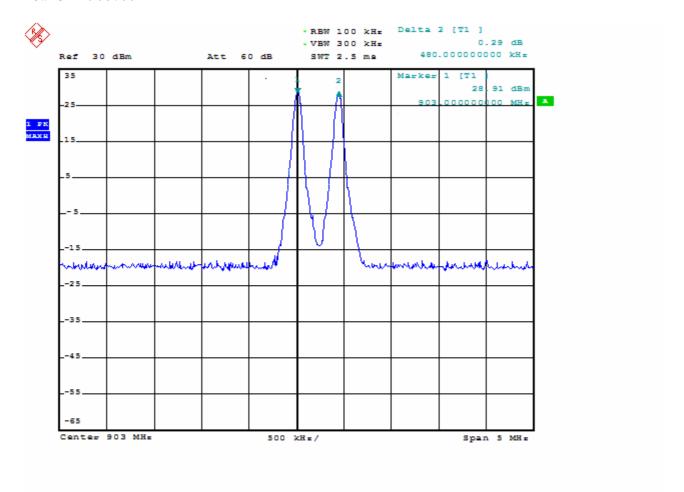
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Low CH: 903.00MHz



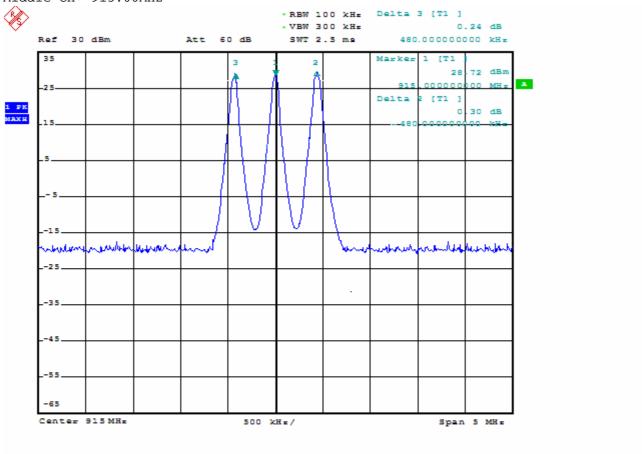
APPLICANT: Hong Kong RFID Ltd.



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Http://www.szmost.com Email: szmost@szmost.com

Middle CH: 915.00MHz



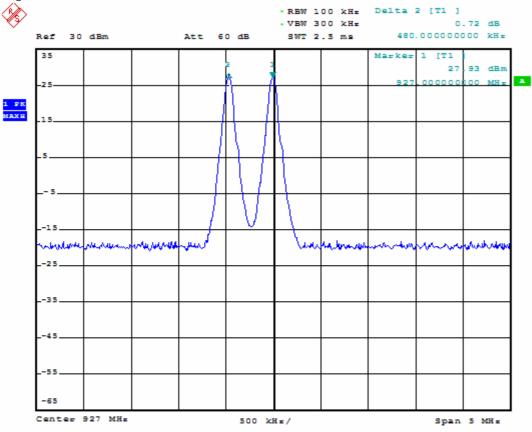
APPLICANT: Hong Kong RFID Ltd.



Tel:(86) 755-26825180 Fax:(86) 755-86170310

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High CH: 927.00MHz



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APPLICANT: Hong Kong RFID Ltd.

FCC ID: XNO-RFID308X

NAME OF TEST: Maximum Peak Output Power Test

RULES PART NUMBER: 15.247 (b)(2), DA 00-705

**REQUIREMENTS:** The transmitter output was connected to a power meter via a Attenuator,

use the power meter to read out the peak output power, the peak output power shall be not exceed 1 w or 30 dBmw.

REMARK: After the preliminary test for all channels, CHO (903MHz), CH25

(915MHz), CH50 (927MHz) was found to produce the worst frequency output. Then, the EUT configuration and cable configuration of the CH0 (903MHz), CH25 (915MHz), CH50 (927MHz) test mode was chosen for all final

test item

## TEST RESULTS:

Test Frequency (MHz)	Read(PK) (dBm)	Cable loss (dB)	Atten loss (dB)	Result (dBm)	Limit (dBm)	Conclusion
(1112)	(GBIII)	(QD)	(ab)	(QDiii)	(abiii)	
Low CH (903.00MHz)	8.30	0.6	20	28.90	30	PASS
Middle CH (915.00MHz)	8.10	0.6	20	28.70	30	PASS
High CH (927.00MHz)	7.33	0.6	20	27.93	30	PASS

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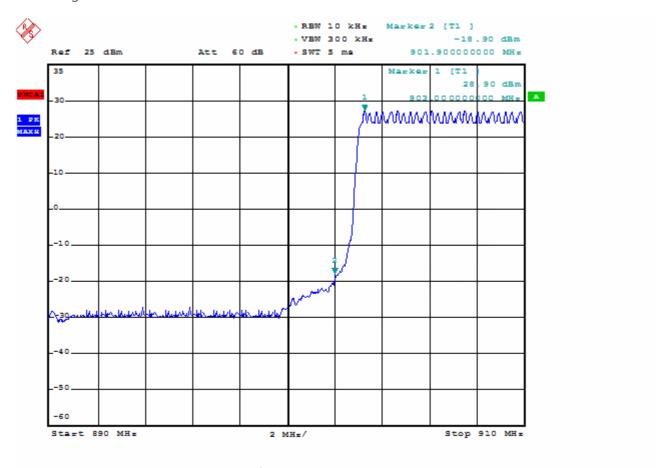
FCC ID: XNO-RFID308X

NAME OF TEST: Band Edge Compliance Test

RULES PART NUMBER: 15.205(b), 15.247(d), DA 00-705

TEST RESULTS:

Band Edge-Low CH



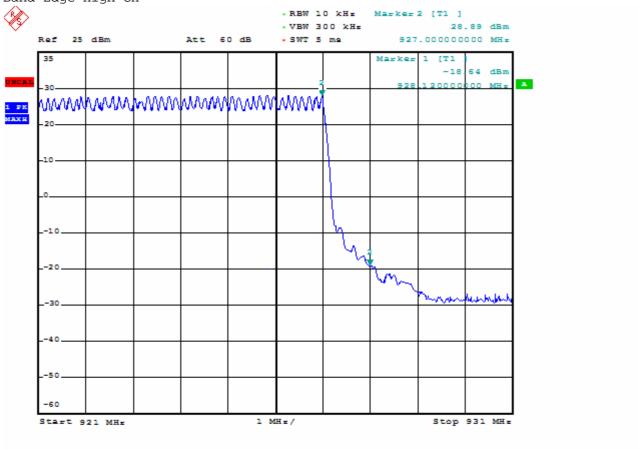
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Band Edge-High CH



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APPLICANT: Hong Kong RFID Ltd.

FCC ID: XNO-RFID308X

NAME OF TEST: Antenna Requirement

RULES PART NUMBER: 15.205(b),15.247(d), DA 00-705

REQUIREMENTS: For intentional device, according to FCC 47 CFR 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain great than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna

exceeds 6dBi.

ANTENNA SPECIFICATION for EUT: The antenna used for this product is designed that no

antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna .The maximum peak Gain

of this antenna is only 5dBi.

APPLICANT: Hong Kong RFID Ltd.