

RADIO TEST REPORT FCC ID: 2AW9GSR-MU921B

Product: UHF RFID Module

Trade Mark: SYSIOT, 〇, 新思物联

Model No.: SR-MU921B

Family Model: SR-MU921A, SR-MU921AS, SR-MU922B, SR-MU922A

Report No.: S21080603701001

Issue Date: Aug 28. 2021

Prepared for

Shenzhen SYSIoT Co.,LTD

Room 717,Yiben E-Commerce Industrial Park,No.1063,
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Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name:	Shenzhen SYSloT Co.,LTD
Address:	Room 717, Yiben E-Commerce Industrial Park, No. 1063,
	Chaguang Road, Nanshan District, Shenzhen, China
Manufacturer's Name:	Shenzhen SYSIoT Co.,LTD
Address:	Room 717, Yiben E-Commerce Industrial Park, No. 1063,
	Chaguang Road, Nanshan District, Shenzhen, China
Product description	
Product name:	UHF RFID Module
Model and/or type reference:	SR-MU921B
Family Model:	SR-MU921A, SR-MU921AS,
	SR-MU922B, SR-MU922A

Measurement Procedure Used:

Medadrement i recedure esed:		
APPLICABLE STANDARDS		
STANDARD/ TEST PROCEDURE	TEST RESULT	
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C KDB 174176 D01 Line Conducted FAQ v01r01 KDB 558074 D01 15.247 Meas Guidance v05 ANSI C63.10-2013	Complied	

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

The test results of this report relate only to the tested sample identified in this report.

Date of Test	:	Aug 06. 2021 ~ Aug 28. 2021
Testing Engineer	:	Muhzi Lee
	_	(Mukzi Lee)
Authorized Signatory	:_	Alex
		(Alex Li)

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2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C				
Standard Section	Test Item	Verdict	Remark	
15.207	Conducted Emission	PASS		
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS		
15.247(a)(1)	Hopping Channel Separation	PASS		
15.247(b)(2)	Peak Output Power	PASS		
15.247(a)(i)	Number of Hopping Frequency	PASS		
15.247(a)(i)	Dwell Time	PASS		
15.247(a)(1)	Bandwidth	PASS		
15.247 (d)	Band Edge Emission	PASS		
15.247 (d)	Spurious RF Conducted Emission	PASS		
15.203	Antenna Requirement	PASS		

Remark:

- 1. "N/A" denotes test is not applicable in this Test Report.
- 2. All test items were verified and recorded according to the standards and without any deviation during the test.

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3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L5516.

IC-Registration The Certificate Registration Number is 9270A.

CAB identifier:CN0074

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for

the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%

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ACCREDITED

Certificate #4298.01

Report No.: S21080603701001

4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification				
Equipment	UHF RFID Module			
Trade Mark	SYSIOT, 新思物联			
FCC ID	2AW9GSR-MU921B			
Model No.	SR-MU921B			
Family Model	SR-MU921A, SR-MU921AS, SR-MU922B, SR-MU922A			
Model Difference	All the model are the same circuit and RF module, except the Model names.			
Operating Frequency	902.25 MHz~927.75MHz			
Modulation	ation ASK			
Number of Channels	52 Channels			
Antenna Type	Panel Antenna			
Antenna Gain	2dBi			
Power supply	DC 5V			
HW Version	M092x 30dBm A5.0			
SW Version	N/A			
FW Version	A04			
serial number	S210806037001			

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

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Revision History

Report No.	Version	Description	Issued Date
S21080603701001	Rev.01	Initial issue of report	Aug 28, 2021

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5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	902.25	27	915.75
01	902.75	28	916.25
02	903.25	29	916.75
03	903.75	30	917.25
04	904.25	31	917.75
05	904.75	32	918.25
06	905.25	33	918.75
07	905.75	34	919.25
08	906.25	35	919.75
09	906.75	36	920.25
10	907.25	37	920.75
11	907.75	38	921.25
12	908.25	39	921.75
13	908.75	40	922.25
14	909.25	41	922.75
15	909.75	42	923.25
16	910.25	43	923.75
17	910.75	44	924.25
18	911.25	45	924.75
19	911.75	46	925.25
20	912.25	47	925.75
21	912.75	48	926.25
22	913.25	49	926.75
23	913.75	50	927.25
24	914.25	51	927.75
25	914.75		
26	915.25		

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The following summary table is showing all test modes to demonstrate in compliance with the standard.

For AC Conducted Emission			
Final Test Mode	Final Test Mode Description		
Mode 1 normal link mode			

Note: AC power line Conducted Emission was tested under maximum output power.

For Radiated Test Cases		
Final Test Mode	Description	
Mode 1	normal link mode	
Mode 2	CH00(902.25MHz)	
Mode 3	CH25(914.75MHz)	
Mode 4	CH51(927.75MHz)	

Note: For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

For Conducted Test Cases		
Final Test Mode	Description	
Mode 2	CH00(902.25MHz)	
Mode 3	CH25(914.75MHz)	
Mode 4	CH51(927.75MHz)	
Mode 5	Hopping mode	

Note: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

- 1. AC power line Conducted Emission was tested under maximum output power.
- 2. EUT is set to continuous transmission mode. duty cycle greater than 98%.
- 3. The module can only transmit with a single antenna.

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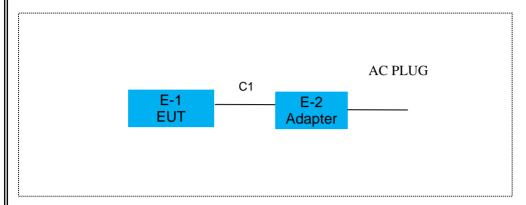




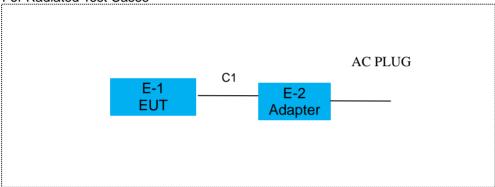
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

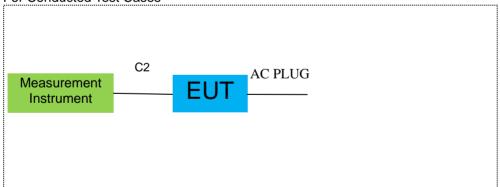
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note: 1. The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

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6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests

Item	Equipment	Model/Type No.	Series No.	Note
E -2	Adapter	JYH32-1203300	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Power cable	NO	NO	1.0m
C-2	RF Cable	NO	NO	0.1m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

\u0	JIIA Coriducted	CSt Cquipment		,			1
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2021.04.27	2022.04.26	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2021.07.01	2022.06.30	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2021.03.29	2022.03.28	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2020.11.20	2021.11.19	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2021.07.01	2022.06.30	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2020.11.20	2021.11.19	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN O84	2020.11.20	2021.11.19	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	2022.08.05	1 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2019.08.06	2022.08.05	1 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Certificate #4298.01

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

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Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

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7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

Fraguency/MHz)	Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average	
0.15-0.5	66-56*	56-46*	
0.5-5.0	56	46	
5.0-30.0	60	50	

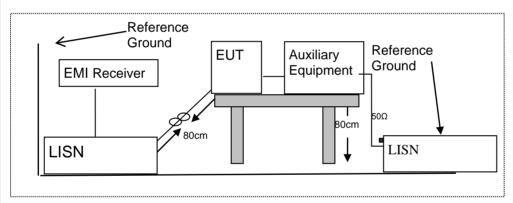
Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
- 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.

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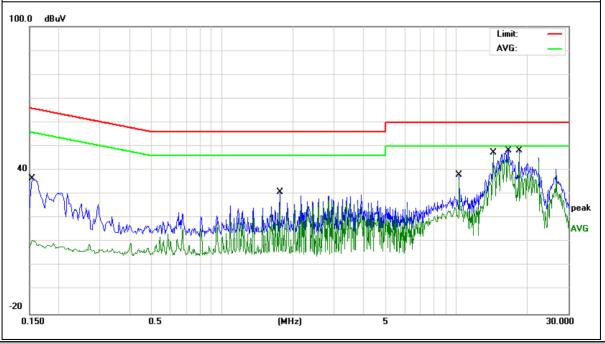
7.1.6 Test Results

EUT:	UHF RFID Module	Model Name:	SR-MU921B
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage:	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

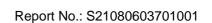
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	1.01	9.72	10.73	55.78	-45.05	AVG
0.1556	26.69	9.72	36.41	65.69	-29.28	QP
1.7580	21.02	9.76	30.78	56.00	-25.22	QP
1.7580	15.13	9.76	24.89	46.00	-21.11	AVG
10.2418	28.45	9.71	38.16	60.00	-21.84	QP
10.2418	26.32	9.71	36.03	50.00	-13.97	AVG
14.3379	37.53	9.82	47.35	60.00	-12.65	QP
14.3379	36.31	9.82	46.13	50.00	-3.87	AVG
16.6419	38.35	9.84	48.19	60.00	-11.81	QP
16.6419	35.62	9.84	45.46	50.00	-4.54	AVG
18.4338	38.50	9.84	48.34	60.00	-11.66	QP
18.4338	36.88	9.84	46.72	50.00	-3.28	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



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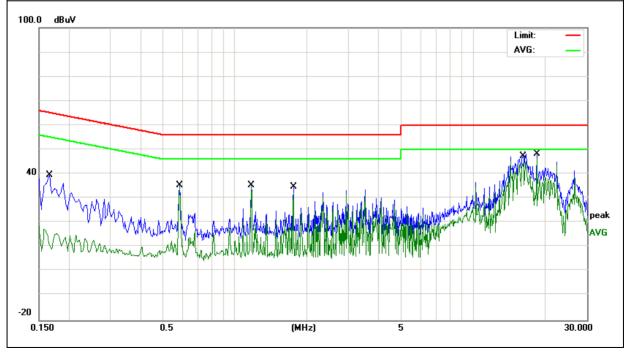


EUT:	UHF RFID Module	Model Name:	SR-MU921B
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage:	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	D l-
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1640	3.47	9.63	13.10	55.25	-42.15	AVG
0.1660	29.93	9.63	39.56	65.15	-25.59	QP
0.5859	25.66	9.70	35.36	56.00	-20.64	QP
0.5859	24.54	9.70	34.24	46.00	-11.76	AVG
1.1699	25.73	9.73	35.46	56.00	-20.54	QP
1.1699	24.97	9.73	34.70	46.00	-11.30	AVG
1.7540	25.15	9.68	34.83	56.00	-21.17	QP
1.7540	22.52	9.68	32.20	46.00	-13.80	AVG
16.2018	37.68	9.73	47.41	60.00	-12.59	QP
16.2018	34.53	9.73	44.26	50.00	-5.74	AVG
18.4338	38.63	9.74	48.37	60.00	-11.63	QP
18.4338	36.74	9.74	46.48	50.00	-3.52	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



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7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

According to 1 00 1 art 15.20	1		
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

restricted baria specified of 10:200(a), then the 10:200(a) first the table below has to be followed:							
Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance				
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300				
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30				
1.705~30.0	30	29.5	30				
30-88	100	40	3				
88-216	150	43.5	3				
216-960	200	46	3				
Above 960	500	54	3				

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)		
i requericy(ivii iz)	PEAK	AVERAGE	
Above 1000	74	54	

Remark :1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

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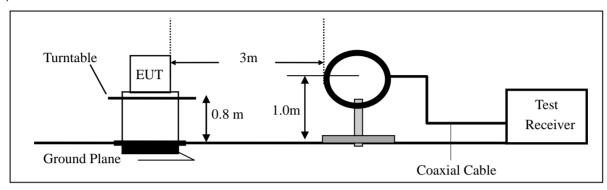


7.2.3 Measuring Instruments

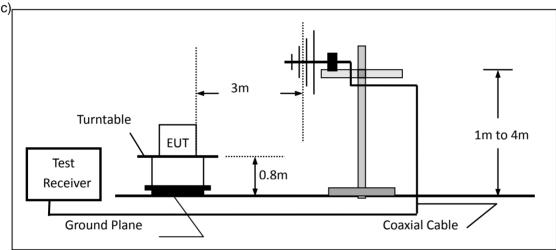
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

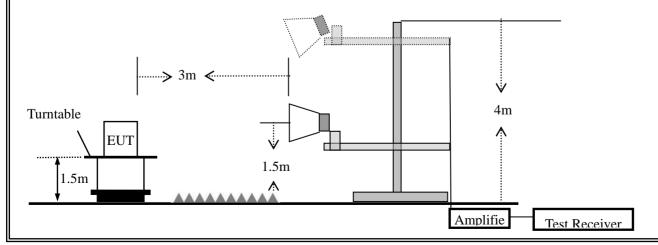
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



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7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz:
 - Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

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During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 4000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

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7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	UHF RFID Module	Model No.:	SR-MU921B					
Temperature:	20 ℃	Relative Humidity:	48%					
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee					

Freq.	Ant.Pol.	Emission L	evel(dBuV/m)	Limit 3	m(dBuV/m)	Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

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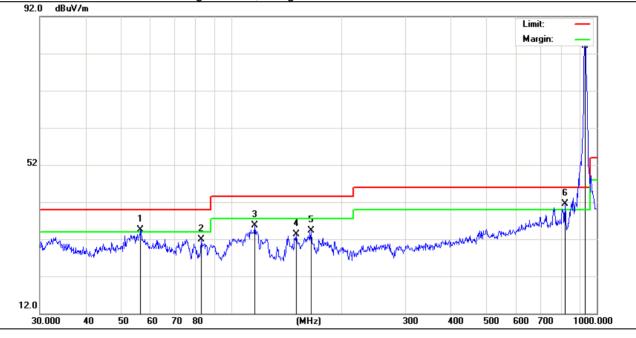
■ Spurious Emission below 1GHz (30MHz to 1GHz)
All the modulation modes have been tested, and the worst result was report as below:

EUT:	UHF RFID Module	Model Name:	SR-MU921B			
Temperature:	20 ℃	Relative Humidity:	48%			
Pressure:	1010hPa	Test Mode:	Mode 4			
Test Voltage:	DC 5V from Adapter AC 120V/60Hz					

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	56.5929	22.33	12.12	34.45	40.00	-5.55	QP
V	82.9385	17.56	14.44	32.00	40.00	-8.00	QP
V	116.1320	17.80	17.89	35.69	43.50	-7.81	QP
V	150.5378	14.95	18.41	33.36	43.50	-10.14	QP
V	165.4866	16.81	17.40	34.21	43.50	-9.29	QP
V	818.8341	9.88	31.54	41.42	46.00	-4.58	QP
V	927.5081	51.65	32.36	84.01	N/A	N/A	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit



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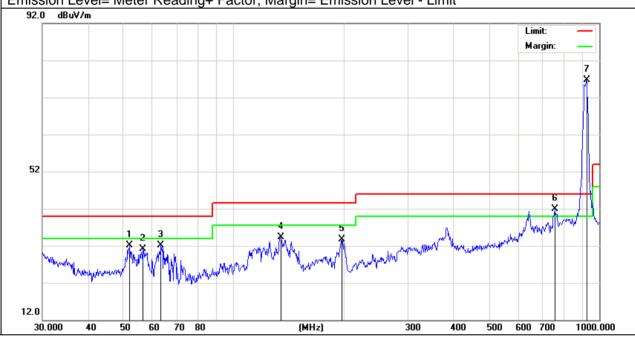




Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
Н	52.0251	18.00	14.01	32.01	40.00	-7.99	QP	
Н	56.5929	18.94	12.12	31.06	40.00	-8.94	QP	
Н	63.3132	20.39	11.66	32.05	40.00	-7.95	QP	
Н	134.5592	15.96	18.35	34.31	43.50	-9.19	QP	
Н	197.8925	18.09	15.58	33.67	43.50	-9.83	QP	
Н	755.3872	11.71	30.27	41.98	46.00	-4.02	QP	
Н	926.8157	44.37	32.36	76.73	N/A	N/A	QP	

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit



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Spurious Emission Above 1GHz (1GHz to 25GHz)

EUT:	UHF RFID Module	Model No.:	SR-MU921B
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee

All the modulation modes have been tested, and the worst result was report as below:

All the modulation modes have been tested, and the worst result was report as below:									
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
			Low Chan	nel (902.2	5 MHz)(ASK	()Above 10	;		
1804.5	69.92	5.21	35.59	44.30	66.42	74.00	-7.58	Pk	Vertical
1804.5	46.03	5.21	35.59	44.30	42.53	54.00	-11.47	AV	Vertical
2706.75	70.8	6.48	36.27	44.60	68.95	74.00	-5.05	Pk	Vertical
2706.75	46.6	6.48	36.27	44.60	44.75	54.00	-9.25	AV	Vertical
1804.5	70.1	5.21	35.55	44.30	66.56	74.00	-7.44	Pk	Horizontal
1804.5	46.97	5.21	35.55	44.30	43.43	54.00	-10.57	AV	Horizontal
2706.75	69.61	6.48	36.27	44.52	67.84	74.00	-6.16	Pk	Horizontal
2706.75	48.99	6.48	36.27	44.52	47.22	54.00	-6.78	AV	Horizontal
			Mid Chan	nel (914.7	5 MHz)(ASK)Above 1G	i		
1829.5	69.55	5.21	35.66	44.20	66.22	74.00	-7.78	Pk	Vertical
1829.5	47.67	5.21	35.66	44.20	44.34	54.00	-9.66	AV	Vertical
2744.25	68.88	7.10	36.50	44.43	68.05	74.00	-5.95	Pk	Vertical
2744.25	45.12	7.10	36.50	44.43	44.29	54.00	-9.71	AV	Vertical
1829.5	70.37	5.21	35.66	44.20	67.04	74.00	-6.96	Pk	Horizontal
1829.5	48.13	5.21	35.66	44.20	44.80	54.00	-9.20	AV	Horizontal
2744.25	68.36	7.10	36.50	44.43	67.53	74.00	-6.47	Pk	Horizontal
2744.25	48.7	7.10	36.50	44.43	47.87	54.00	-6.13	AV	Horizontal
			High Chan	nel (927.7	5 MHz)(ASK) Above 10	3		
1855.5	69.59	5.21	35.52	44.21	66.11	74.00	-7.89	Pk	Vertical
1855.5	47.93	5.21	35.52	44.21	44.45	54.00	-9.55	AV	Vertical
2783.25	70.65	7.10	36.53	44.60	69.68	74.00	-4.32	Pk	Vertical
2783.25	49.86	7.10	36.53	44.60	48.89	54.00	-5.11	AV	Vertical
1855.5	69.74	5.21	35.52	44.21	66.26	74.00	-7.74	Pk	Horizontal
1855.5	47.05	5.21	35.52	44.21	43.57	54.00	-10.43	AV	Horizontal
2783.25	70.08	7.10	36.53	44.60	69.11	74.00	-4.89	Pk	Horizontal
2783.25	45.07	7.10	36.53	44.60	44.10	54.00	-9.90	AV	Horizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor (2)All other emissions more than 20dB below the limit.

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■ Spurious Emission in Restricted Band

EUT:	UHF RFID Module	Model No.:	SR-MU921B
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Mukzi Lee

All the modulation modes have been tested, and the worst result was report as below:

Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
1240	70.64	4.04	29.57	44.70	59.55	74	-14.45	Pk	Vertical
1240	49.69	4.04	29.57	44.70	38.60	54	-15.40	AV	Vertical
1240	70.83	4.04	29.57	44.70	59.74	74	-14.26	Pk	Horizontal
1240	45.86	4.04	29.57	44.70	34.77	54	-19.23	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

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7.3 NUMBER OF HOPPING CHANNEL

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(1) (i)and ANSI C63.10-2013

7.3.2 Conformance Limit

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.3

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold

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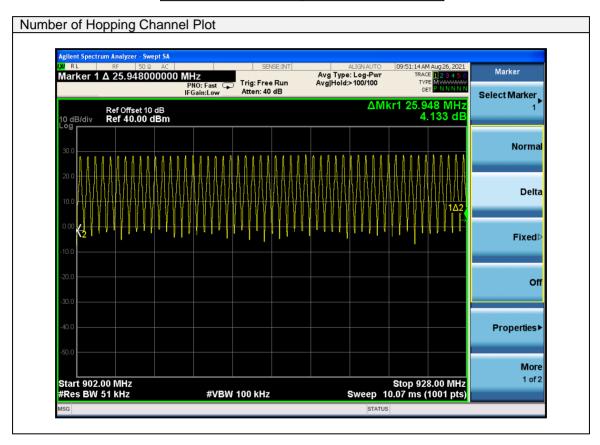




7.3.6 Test Results

EUT:	UHF RFID Module	Model No.:	SR-MU921B
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode 5(1Mbps)	Test By:	Mukzi Lee

Number of Hopping (Channel):	Limit
52	>50



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7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

7.4.1 Applicable Standard

According to FCC Part 15.247(a) (1) and ANSI C63.10-2013

7.4.2 Conformance Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.2

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Measurement Bandwidth or Channel Separation

RBW: Start with the RBW set to approximately 3% of the channel spacing; adjust as necessary

to best identify the center of each individual channel.

 $VBW \geq RBW$

Sweep = auto

Detector function = peak

Trace = max hold

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7.4.6 Test Results

EUT:	UHF RFID Module	Model No.:	SR-MU921B
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee

Modulation Mode	Channel Number	Channel Frequency (MHz)	Measured Channel Separation (kHz)	Limit (kHz)		Verdict
	00-01	902.50	500	>172.00	20dB BW	PASS
ASK	25-26	915.00	500	>171.90	20dB BW	PASS
7.0.1	50-51	927.50	500	>248.60	20dB BW	PASS

Test Plot





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(1Mbps) Channel Separation plot on channel 50-51



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7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

7.5.1 Applicable Standard

According to FCC Part 15.247(a)(1)(i)) and ANSI C63.10-2013

7.5.2 Conformance Limit

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.4

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = zero span, centered on a hopping channel

RBW shall be ≤ channel spacing

 $VBW \geq RBW$

Sweep = as necessary to capture the entire dwell time per hopping channel

Detector function = peak

Trace = max hold

Measure the maximum time duration of one single pulse.

Set the EUT packet transmitting.

Measure the maximum time duration of one single pulse.

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7.5.6 Test Results

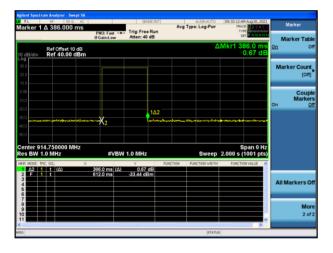
EUT:	UHF RFID Module	Model No.:	SR-MU921B
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee

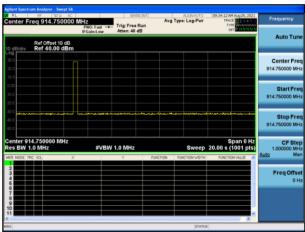
Center Frequency (MHz)	ner mon	The Number of Hop Within a limited time (N)		Limits (s)	Result
914.75	386	1	0.386	0.4	Pass

Note:

- 1. Sweep time=20s;
- 2. Dwell Time(s) = Transmit Timeper Hop \times N.

Test Plot





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7.5.7 Pseudorandom Frequency Hopping Sequence

Each frequency used equally on the average by each transmitter.

The channel order is determined by the Channel mapping Table, system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals

Pseudo-random sequence Table

Channel	Channel mapping Table	Frequency	Channel	Channel mapping Table	909.75
37	37	920.75	38	38	921.25
8	8	906.25	30	30	917.25
9	9	906.75	15	15	909.75
5	5	904.75	27	27	915.75
42	42	923.25	28	28	916.25
13	13	908.75	46	46	925.25
4	4	904.25	21	21	912.75
16	16	910.25	19	19	911.75
17	17	910.75	7	7	905.75
43	43	923.75	49	49	926.75
48	48	926.25	24	24	914.25
26	26	915.25	25	25	914.75
22	22	913.25	23	23	913.75
6	6	905.25	00	00	902.25
32	32	918.25	39	39	921.75
33	33	918.75	47	47	925.75
44	44	924.25	11	11	907.75
45	45	924.75	12	12	908.25
3	3	903.75	10	10	907.25
1	1	902.75	51	51	927.75
2	2	903.25	34	34	919.25
18	18	911.25	41	41	922.75
50	50	927.25	31	31	917.75
36	36	920.25	29	29	916.75
20	20	912.25	14	14	909.25

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7.6 20DB BANDWIDTH TEST

7.6.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2013

7.6.2 Conformance Limit

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 6.9.2

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW ≥ 1% of the 20 dB bandwidth

VBW ≥ RBW Sweep = auto

Detector function = peak

Trace = max hold

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7.6.6 Test Results

EUT:	UHF RFID Module	Model No.:	SR-MU921B
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee

Test Channel	Frequenc y (MHz)	Measured Bandwidt h (KHz)	Limit (kHz)	Verdict		
1Mbps						
00	902.25	172.00	500	PASS		
25	914.75	171.90	500	PASS		
51	927.75	248.60	500	PASS		

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Test Plot

20dB Bandwidth plot on channel 00 (1Mbps)



20dB Bandwidth plot on channel 25 (1Mbps)



20dB Bandwidth plot on channel 51 (1Mbps)



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7.7 PEAK OUTPUT POWER

7.7.1 Applicable Standard

According to FCC Part 15.247(b)(1) and ANSI C63.10-2013

7.7.2 Conformance Limit

For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.5.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW ≥ the 20 dB bandwidth of the emission being measured

 $\mathsf{VBW} \geq \mathsf{RBW}$

Sweep = auto

Detector function = peak

Trace = max hold

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7.7.6 Test Results

EUT:	UHF RFID Module	Model No.:	SR-MU921B
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee

Test Channel	Frequenc y	Power Setting	Peak Output Power	LIMIT	Verdict
	(MHz)		(dBm)	(dBm)	
0	902.25	Default	27.968	30	PASS
25	914.75	Default	28.290	30	PASS
51	927.75	Default	28.636	30	PASS

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Test Plot

Peak output Power plot on channel 00 (1Mbps)



Peak output Power plot on channel 25 (1Mbps)



Peak output Power plot on channel 51(1Mbps)



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7.8 CONDUCTED BAND EDGE MEASUREMENT

7.8.1 Applicable Standard

According to FCC Part 15.247(d) and ANSI C63.10-2013

7.8.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Certificate #4298 01

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.6.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW = 100KHz

VBW = 300KHz

Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

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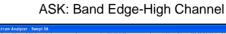


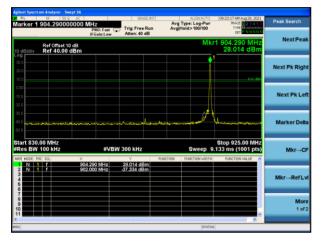
7.8.6 Test Results

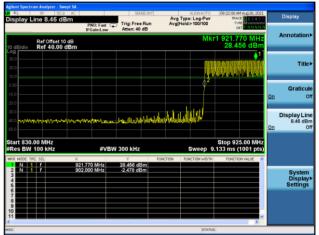
EUT:	UHF RFID Module	Model No.:	SR-MU921B
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Mukzi Lee

Test Plot

ASK: Band Edge-Low Channel

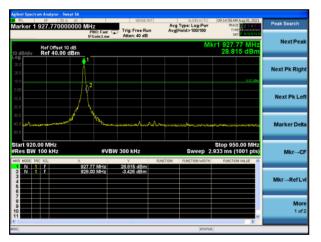


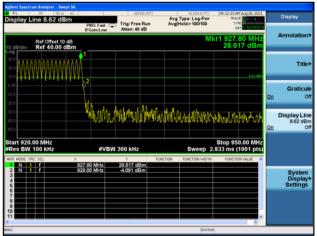




ASK: Band Edge-Low Channel (Hopping Mode)

ASK: Band Edge-High Channel (Hopping Mode)





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7.9 SPURIOUS RF CONDUCTED EMISSION

7.9.1 Applicable Standard

According to FCC Part 15.247(d) and ANSI C63.10-2013.

7.9.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.9.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.9.4 Test Setup

Please refer to Section 6.1 of this test report.

7.9.5 Test Procedure

Establish an emission level by using the following procedure:

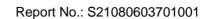
- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq [3 \times RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Then the limit shall be attenuated by at least 20 dB relative to the maximum amplitude level in 100 kHz.

7.9.6 Test Results

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

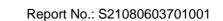
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Test Plot ASK on channel 00 ASK on channel 00 RL RF 50 Q ▲ DC arker 1 368.892000 kHz 7: Fast Trig: Free Run Atten: 40 dB Avg Type: Log-Pwr Avg|Hold>100/100 Avg Type: Log-Pwr Avg|Hold>100/100 Trig: Free Run Ref Offset 10 dB Ref 40.00 dBm Ref Offset 10 dB Ref 40.00 dBm Marker Delt Mkr→RefLv ASK on channel 00 ASK on channel 00 Aug Type: Log-Pwr Avg|Hold: 5/100 Avg Type: Log-Pwr Avg|Hold>100/100 000000 GHz
PN0: Fast Trig: Free Run
Atten: 40 dB Ref Offset 10 dB Ref 40.00 dBm Ref Offset 10 dB Ref 40.00 dBm Mkr→RefLv More 1 of 2

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Test Plot

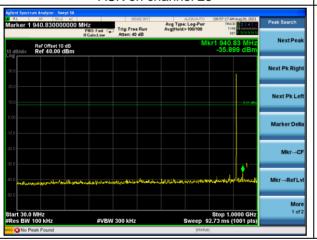
ASK on channel 25



ASK on channel 25



ASK on channel 25



ASK on channel 25



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7.10 ANTENNA APPLICATION

7.10.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible partyshall be used with the device.

7.10.2 Result

The EUT has a unique antenna connector and use only the supplied antenna (Gain: 2dBi). It comply with the standard of 15.203 requirement.

END OF REPORT

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