



RADIO TEST REPORT FCC ID: 2AX5VMOTPROJ1

Product:	Motion detector
Trade Mark:	ХЛГУ
Model No.:	MotionProtect Jeweller (9NA)
Family Model:	MPJ0000NA
Report No.:	S22122001302001
Issue Date:	14 Jan. 2023

Prepared for

AJAX SYSTEMS CYPRUS HOLDINGS LTD Ifigeneias, 17, Strovolos, 2007, Nicosia, Cyprus

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name:	AJAX SYSTEMS CYPRUS HOLDINGS LTD
Address:	Ifigeneias, 17, Strovolos, 2007, Nicosia, Cyprus
Manufacturer's Name:	"AJAX SYSTEMS MANUFACTURING" LIMITED LIABILITY COMPANY
Address:	Sklyarenka, 5, Kyiv, 04073, Ukraine
Product description	
Product name:	Motion detector
Model and/or type reference:	MotionProtect Jeweller (9NA)
Family Model:	MPJ0000NA
Test Sample Number	S221220013002
	·

Measurement Procedure Used:

APPLICABLE	STANDARDS
STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C KDB558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10-2013	Complied
This device described above has been tested by Shen results show that the equipment under test (EUT) is applicable only to the tested sample identified in the re	in compliance with the FCC requirements. And it is

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

Date of Test

: _____ 20 Dec.2022 ~ 14 Jan. 2023

Testing Engineer

Gavan Zhang (Gavan Zhang)

Authorized Signatory

(Alex Li)



2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C				
Standard Section	Test Item	Verdict	Remark	
15.207	Conducted Emission	N/A		
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:

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





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 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 $y\pm U$, 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%



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification		
Equipment	Motion detector	
Trade Mark	λιλχ	
FCC ID	2AX5VMOTPROJ1	
Model No.	MotionProtect Jeweller (9NA)	
Family Model	MPJ0000NA	
Model Difference	All models are the same circuit and RF module, except the model name.	
Operating Frequency	905 MHz~926.5MHz	
Modulation	GFSK	
Number of Channels	103 Channels	
Antenna Type	Planar Inverted F- Antenna	
Antenna Gain	-2 dBi	
Power supply	DC 3V from CR123A Battery	
HW Version	MP.002.MBR.001v0[9XX]	
SW Version	5.58.5.15	
FW Version	NA	

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.





Revision History

Report No.	Version	Description	Issued Date
S22122001302001	Rev.01	Initial issue of report	14 Jan. 2023
	+		
	_		



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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)	Channel	Frequency (MHz)
1	905	36	912.65	71	919.65
2	905.85	37	912.85	72	919.85
3	906.05	38	913.05	73	920.05
4	906.25	39	913.25	74	920.25
5	906.45	40	913.45	75	920.45
6	906.65	41	913.65	76	920.65
7	906.85	42	913.85	77	920.85
8	907.05	43	914.05	78	921.05
9	907.25	44	914.25	79	921.25
10	907.45	45	914.45	80	921.45
11	907.65	46	914.65	81	921.65
12	907.85	47	914.85	82	921.85
13	908.05	48	915.05	83	922.05
14	908.25	49	915.25	84	922.25
15	908.45	50	915.45	85	922.45
16	908.65	51	915.65	86	922.65
17	908.85	52	915.85	87	922.85
18	909.05	53	916.05	88	923.05
19	909.25	54	916.25	89	923.25
20	909.45	55	916.45	90	923.45
21	909.65	56	916.65	91	923.65
22	909.85	57	916.85	92	923.85
23	910.05	58	917.05	93	924.05
24	910.25	59	917.25	94	924.25
25	910.45	60	917.45	95	924.45
26	910.65	61	917.65	96	924.65
27	910.85	62	917.85	97	924.85
28	911.05	63	918.05	98	925.05
29	911.25	64	918.25	99	925.25
30	911.45	65	918.45	100	925.45
31	911.65	66	918.65	101	925.65
32	911.85	67	918.85	102	925.85
33	912.05	68	919.05	103	926.50
34	912.25	69	919.25		
35	912.45	70	919.45		



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

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For Radiated Test Cases		
Final Test Mode	Description	
Mode 1	normal link mode	
Mode 2	CH01(905MHz)	
Mode 3	CH52(915.85MHz)	
Mode 4	CH103(926.50MHz)	

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	CH01(905MHz)	
Mode 3	CH52(915.85MHz)	
Mode 4	CH103(926.50MHz)	
Mode 5	Hopping mode	

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





6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

For Radiated Test Cases	
1 01 1/2012150 1531 5255	



For Conducted Test Cases

	C-1			
Measurement Instrument		EUT		

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.





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.

Certificate #4298.01

Item	Equipment	Model/Type No.	Series No.	Note

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	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 [Length] 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

		estequipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2022.03.30	2023.03.29	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2022.06.16	2023.06.15	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2022.06.16	2023.06.15	1 year
4	Test Receiver	R&S	ESPI7	101318	2022.04.06	2023.04.05	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	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	2022.03.31	2023.03.30	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.06.16	2023.06.15	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2022.06.17	2023.06.16	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2022.06.16	2023.06.15	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2022.06.16	2023.06.15	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2022.06.17	2025.06.16	3 year
16	Filter	TRILTHIC	2400MHz	29	2022.03.30	2023.03.29	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

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



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

Frequency(MHz)	Conducted	Emission Limit
Frequency(initz)	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

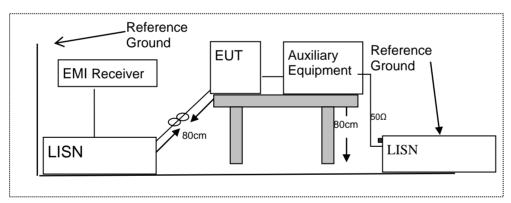
2. The lower limit shall apply at the transition frequencies

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.

7.1.6 Test Results

EUT:	Motion detector	Model Name :	MotionProtect Jeweller (9NA)
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N/A
Test Voltage :	N/A	Test Mode:	N/A

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Note: The EUT is powered by battery, so this item is not applicable





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 Fee Fairts.200, Restricted bands				
MHz	MHz	GHz		
16.42-16.423	399.9-410	4.5-5.15		
16.69475-16.69525	608-614	5.35-5.46		
16.80425-16.80475	960-1240	7.25-7.75		
25.5-25.67	1300-1427	8.025-8.5		
37.5-38.25	1435-1626.5	9.0-9.2		
73-74.6	1645.5-1646.5	9.3-9.5		
74.8-75.2	1660-1710	10.6-12.7		
123-138	2200-2300	14.47-14.5		
149.9-150.05	2310-2390	15.35-16.2		
156.52475-156.52525	2483.5-2500	17.7-21.4		
156.7-156.9	2690-2900	22.01-23.12		
162.0125-167.17	3260-3267	23.6-24.0		
167.72-173.2	3332-3339	31.2-31.8		
240-285	3345.8-3358	36.43-36.5		
322-335.4	3600-4400	(2)		
	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	MHzMHz16.42-16.423399.9-41016.69475-16.69525608-61416.80425-16.80475960-124025.5-25.671300-142737.5-38.251435-1626.573-74.61645.5-1646.574.8-75.21660-1710123-1382200-2300149.9-150.052310-2390156.52475-156.525252483.5-2500156.7-156.92690-2900162.0125-167.173260-3267167.72-173.23345.8-3358		

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 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)
	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.



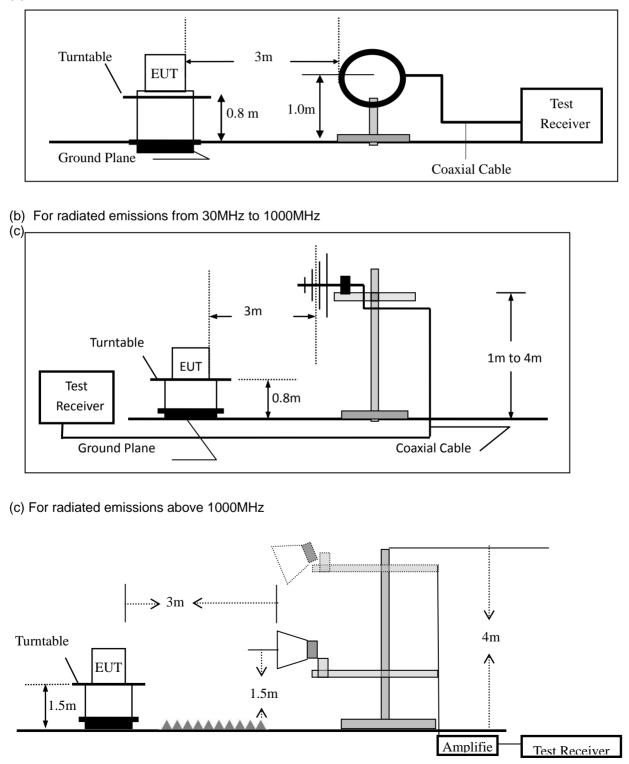


7.2.3 Measuring Instruments

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



NTEK 北测®

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.

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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:

Setting
Auto
1000 MHz
10th carrier harmonic
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





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 1000	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.





7.2.6 Test Results

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

EUT:	Motion detector	Model No.:	MotionProtect Jeweller (9NA)
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang

Certificate #4298.01

Freq.	Ant.Pol.	Emission L	_evel(dBuV/m)	Limit 3	m(dBuV/m)	Ove	r(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.



■ Spurious Emission below 1GHz (30MHz to 1GHz)

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

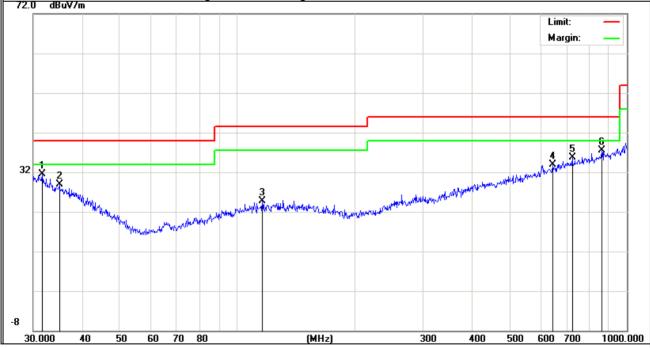
EUT:	Motion detector	Model Name :	MotionProtect Jeweller (9NA)
Temperature:	23 ℃	Relative Humidity:	54%
Pressure:	1010hPa		Mode1 OCW=120KHz
Test Voltage :	DC 3V		

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

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m) (dB)			
V	31.6202	6.35	25.14	31.49	40.00	-8.51	QP	
V	35.0048	5.50	23.49	28.99	40.00	-11.01	QP	
V	116.1321	6.09	18.67	24.76	43.50	-18.74	QP	
V	645.1195	7.24	26.67	33.91	46.00	-12.09	QP	
V	724.2611	7.46	28.31	35.77	46.00	-10.23	QP	
V	863.0562	7.34	30.09	37.43	46.00	-8.57	QP	

Remark:

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





Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	30.5304	6.38	25.87	32.25	40.00	-7.75	QP
Н	34.6385	5.91	23.49	29.40	40.00	-10.60	QP
Н	603.5392	7.05	26.37	33.42	46.00	-12.58	QP
Н	711.6734	7.14	28.04	35.18	46.00	-10.82	QP
Н	804.6028	6.75	29.42	36.17	46.00	-9.83	QP
Н	912.8618	7.48	30.58	38.06	46.00	-7.94	QP
						Limit: Margin:	
							a
						3 4 5	And and
32	The state of the second second second second	. Material Andrew	n.N.duduntulalkomatura	hallow algo algo al and allow	- anti-langer shallower	-turnet -	
-8	0.000 40 50	60 70 80		IHz)	300 400 50	00 600 700	1000.000





EUT:		Motic	on detec	tor		M	lode	l No.:	Motio	nProtect .	Jeweller (9N
Tempo	erature:	20 °C	2			R	elat	ive Humidit	y: 48%		
	Mode:	OCW	/=120Kł				Test By: Gavan Zhang				
Il the	modulatio							lt was repo	rt as belo	ow:	
F	requency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emissio Level		Limits	Margin	Remark	Comment
	(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/r	m)	(dBµV/m)	(dB)		
				Low Cha	nnel (905 	MHz)(GF	SK)-	Above 1G			
	1810	80.75	5.21	26.5	55.35	57.11	1	74.00	-16.89	Pk	Vertical
	1810	60.01	5.21	26.5	55.35	36.37	7	54.00	-17.63	AV	Vertical
	2715	75.42	6.48	28.49	55.11	55.28	3	74.00	-18.72	Pk	Vertical
	2715	63.34	6.48	28.49	55.11	43.20)	54.00	-10.80	AV	Vertical
	1810	79.66	5.21	26.5	55.35	56.02	2	74.00	-17.98	Pk	Horizontal
	1810	61.22	5.21	26.5	55.35	37.58	3	54.00	-16.42	AV	Horizontal
	2715	77.30	6.48	28.49	55.11	57.16	6	74.00	-16.84	Pk	Horizontal
	2715	58.22	6.48	28.49	55.11	38.08	3	54.00	-15.92	AV	Horizontal
				Mid Chann	el (915.85	MHz)(G	FSK	()Above 10	3		
	1831.7	78.62	5.21	26.5	55.35	54.98	3	74.00	-19.02	Pk	Vertical
	1831.7	60.60	5.21	26.5	55.35	36.96	6	54.00	-17.04	AV	Vertical
2	2747.55	77.43	7.10	28.49	55.11	57.91	1	74.00	-16.09	Pk	Vertical
2	2747.55	59.54	7.10	28.49	55.11	40.02	2	54.00	-13.98	AV	Vertical
	1829.5	78.63	5.21	26.5	55.35	54.99	9	74.00	-19.01	Pk	Horizontal
	1829.5	59.90	5.21	26.5	55.35	36.26	5	54.00	-17.74	AV	Horizontal
2	2744.25	75.23	7.10	28.49	55.11	55.71	1	74.00	-18.29	Pk	Horizontal
:	2744.25	62.65	7.10	28.49	55.11	43.13	3	54.00	-10.87	AV	Horizontal
				High Chan	nel (926.5	MHz)(GI	FSK) Above 10	3		
	1855.5	79.56	5.21	26.5	55.35	55.92	2	74.00	-18.08	Pk	Vertical
	1855.5	58.98	5.21	26.5	55.35	35.34	1	54.00	-18.66	AV	Vertical
2	2783.25	78.37	7.10	28.49	55.11	58.85	5	74.00	-15.15	Pk	Vertical
:	2783.25	59.62	7.10	28.49	55.11	40.10)	54.00	-13.90	AV	Vertical
	1855.5	82.21	5.21	35.52	55.35	67.59	9	74.00	-6.41	Pk	Horizontal
	1855.5	59.44	5.21	35.52	55.35	44.82	2	54.00	-9.18	AV	Horizontal
:	2783.25	78.55	7.10	36.53	55.11	67.07	7	74.00	-6.93	Pk	Horizontal
	2783.25	59.84	7.10	36.53	55.11	48.36	6	54.00	-5.64	AV	Horizontal





Spurious Emission in Restricted Band

EUT:	Motion detector	Model No.:	MotionProtect Jeweller (9NA)					
Temperature:	20 (Relative Humidity:	48%					
Test Mode:	Mode2/ Mode4 OCW=120KHz	Test By:	Gavan Zhang					

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	57.92	4.04	29.57	44.70	46.83	74	-27.17	Pk	Vertical
1240	54.38	4.04	29.57	44.70	43.29	54	-10.71	AV	Vertical
1240	60.18	4.04	29.57	44.70	49.09	74	-24.91	Pk	Horizontal
1240	54.56	4.04	29.57	44.70	43.47	54	-10.53	AV	Horizontal
1804.6	63.44	4.26	29.87	44.40	53.17	74	-20.83	Pk	Vertical
1804.6	52.70	4.26	29.87	44.40	42.43	54	-11.57	AV	Vertical
1804.6	61.67	4.26	29.87	44.40	51.40	74	-22.60	Pk	Horizontal
1804.6	51.86	4.26	29.87	44.40	41.59	54	-12.41	AV	Horizontal





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 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 \geq RBW Sweep = auto Detector function = peak Trace = max hold

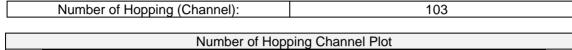




7.3.6 Test Results

EUT:	Motion detector	Model No.:	MotionProtect Jeweller (9NA)
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode 5(1Mbps)	Test By:	Gavan Zhang

OCW=120KHz







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.

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

Sweep = auto Detector function = peak Trace = max hold



7.4.6 Test Results

EUT:	Motion detector	Model No.:	MotionProtect Jeweller (9NA)
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang

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OCW=120KHz

Modulat Mode	-	Channel Number	Channel Frequency (MHz)	Measured Channel Separation (kHz)		_imit kHz)	Verdict
		01-02	905	780	>88.04	20dB BW	PASS
GFSK		52-53	915.85	199.5	>84.76	20dB BW	PASS
		102-103	926.5	577.5	>88.85	20dB BW	PASS

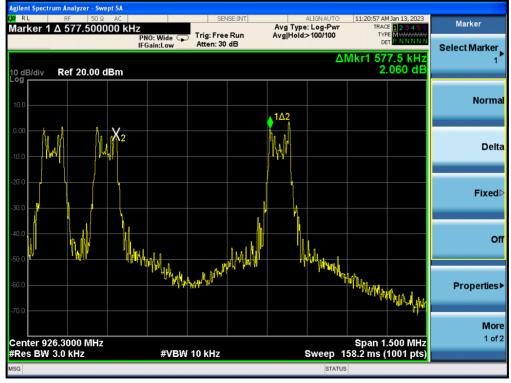
Test Plot (1Mbps) Channel Separation plot on channel 01-02 gilent Spectrum Analyzer - Swept SA **U**RL ALIGNAUTO Avg Type: Log-Pwr Avg|Hold:>100/100 11:31:12 AM Jan 13, 2023 Peak Search Marker 1 Δ 780.000000 kHz TRACE PNO: Wide Trig: Free Run IFGain:Low Atten: 20 dB Next Peak ΔMkr1 780.0 kHz 0.788 dB 10 dB/div Ref 10.00 dBm Next Pk Right (-Next Pk Left Marker Delta WWW Mkr→CF Mkr→RefLvi More 1 of 2 Center 905.6000 MHz #Res BW 3.0 kHz Span 1.500 MHz Sweep 158.2 ms (1001 pts) #VBW 10 kHz SG STATUS





(1Mbps) Channel Separation plot on channel 52-53

(1Mbps) Channel Separation plot on channel 102-103







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.

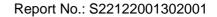
7.5.4 Test Setup

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< 200kHz 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.





7.5.6 Test Results

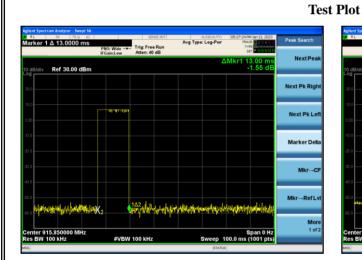
EUT:	Motion detector	Model No.:	MotionProtect Jeweller (9NA)
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang

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Center Frequency (MHz)	Transmit Time per Hop (ms)	The Number of Hop Within a limited time (N)	Dwell Time (s)	Limits (s)	Result
915.85	13	1	0.013	0.4	Pass

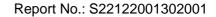
Note:

- 1. Ton=13.00ms
- 2. Sweep time=20s;
- 3. Dwell Time(s) = Transmit Timeper Hop \times N.



RL	RF	75 £				NSE:INT		ALIGNAUTO E: Log-Pwr	05:30:33 PM TRACE	123456	Marker
				PNO: Wide • FGain:Low	 Trig: Fre Atten: 4 	e Run 0 dB			DET	PNNNNN	Select Marker
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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

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Pseudo-random sequence Table

Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel	(MHz)	Channel	(MHz)	Channel	(MHz)
1	905	36	912.65	71	919.65
55	916.45	37	912.85	81	921.65
56	916.65	38	913.05	77	920.85
46	914.65	2	905.85	74	920.25
47	914.85	51	915.65	26	910.65
24	910.25	9	907.25	27	910.85
25	910.45	10	907.45	72	919.85
75	920.45	54	916.25	73	920.05
76	920.65	22	909.85	78	921.05
28	911.05	23	910.05	82	921.85
29	911.25	7	906.85	79	921.25
52	915.85	8	907.05	84	922.25
53	916.05	48	915.05	83	922.05
57	916.85	49	915.25	80	921.45
58	917.05	50	915.45	85	922.45
59	917.25	18	909.05	3	906.05
60	917.45	19	909.25	4	906.25
61	917.65	20	909.45	5	906.45
62	917.85	21	909.65	11	907.65
63	918.05	31	911.65	12	907.85
64	918.25	32	911.85	13	908.05
65	918.45	33	912.05	6	906.65
69	919.25	66	918.65	39	913.25
70	919.45	67	918.85	40	913.45
30	911.45	68	919.05	41	913.65
34	912.25	90	923.45	97	924.85
35	912.45	91	923.65	98	925.05
86	922.65	92	923.85	15	908.45
87	922.85	100	925.45	42	913.85
88	923.05	95	924.45	14	908.25
89	923.25	102	925.85	99	925.25
16	908.65	43	914.05	94	924.25
17	908.85	44	914.25	96	924.65
93	924.05	45	914.45		
101	925.65	103	926.5		





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 \geq 1% of the 20 dB bandwidth VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold





Report No.: S22122001302001

7.6.6 Test Results

EUT:	Motion detector	Model No.:	MotionProtect Jeweller (9NA)
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang

OCW=120KHz

Test Channel	Frequency	Measured Bandwidth (KHz)	Limit	Verdict
	(MHz)		(kHz)	
1	905	83.98	250	PASS
52	915.85	89.09	250	PASS
103	926.5	81.78	250	PASS

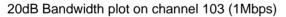
Test Plot

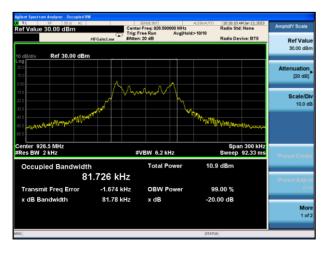
20dB Bandwidth plot on channel 01 (1Mbps)



20dB Bandwidth plot on channel 52 (1Mbps)











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

 $RBW \geq$ the 20 dB bandwidth of the emission being measured

 $VBW \ge RBW$

Sweep = auto

Detector function = peak Trace = max hold





7.7.6 Test Results

EUT:	Motion detector	Model No.:	MotionProtect Jeweller (9NA)
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang
OCW=120KHz			

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Test Channel	Frequency	Power Setting	Peak Output Power	LIMIT	Verdict	
	(MHz)		(dBm)	(dBm)		
1Mbps						
1	905.00	Default	9.54	30	PASS	
52	915.85	Default	6.916	30	PASS	
103	926.50	Default	5.813	30	PASS	

Test Plot

Peak output Power plot on channel 01 (1Mbps)





Peak output Power plot on channel 52 (1Mbps)

Peak output Power plot on channel 103 (1Mbps)









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)).

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

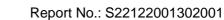
VBW = 300KHz

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.





7.8.6 Test Results

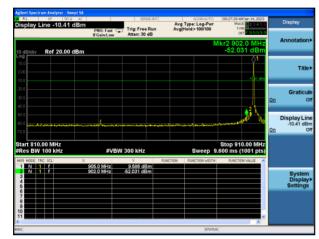
EUT:	Motion detector	Model No.:	MotionProtect Jeweller (9NA)
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode5	Test By:	Gavan Zhang

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OCW=120KHz

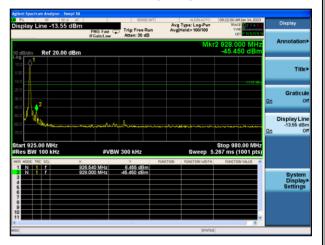
Test Plot

GFSK: Band Edge-Low Channel

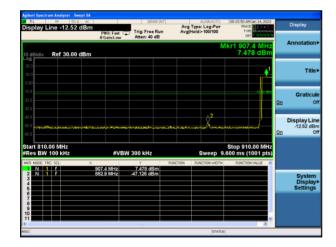


GFSK: Band Edge-Low Channel (Hopping Mode)

GFSK: Band Edge-High Channel



GFSK: Band Edge-High Channel (Hopping Mode)









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.

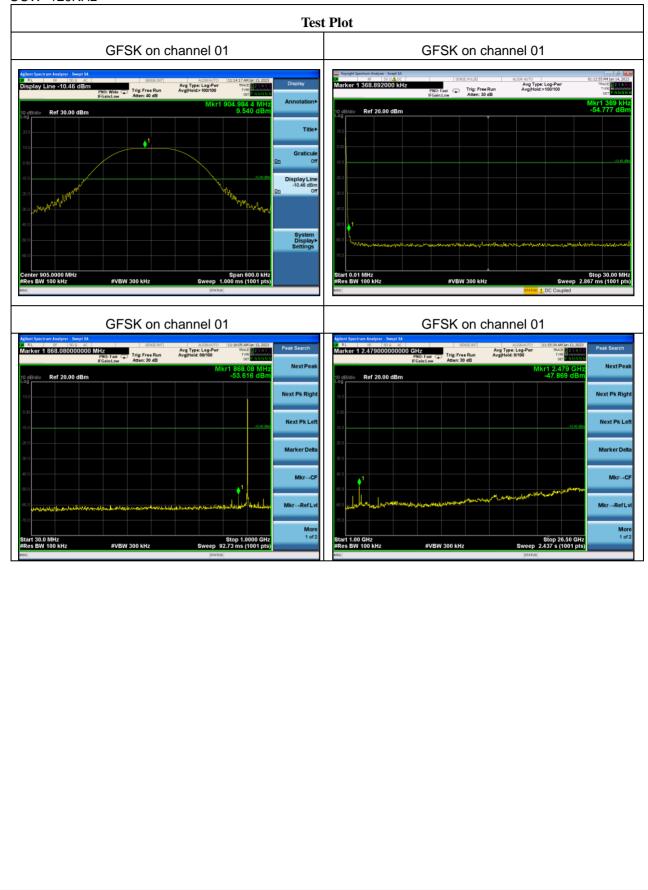


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ACCREDITED Certificate #4298.01



OCW=120KHz

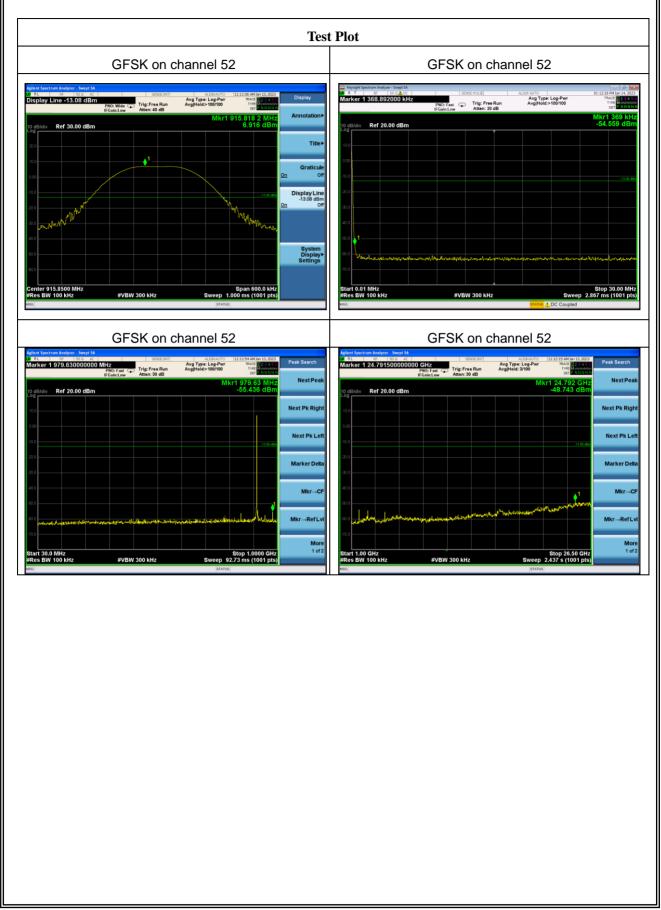




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ACCREDITED Certificate #4298.01



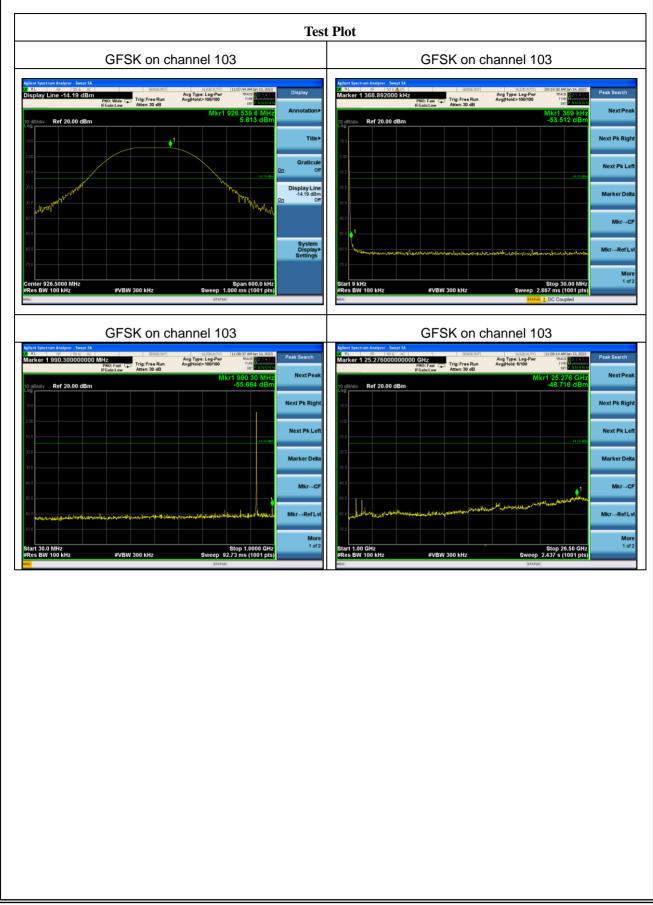




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ACCREDITED Certificate #4298.01

Report No.: S22122001302001







ANTENNA APPLICATION

7.9.7 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.

7.9.8 Result

The EUT has four antenna connector and use only the AntennaType: Planar Inverted F- Antenna (Gain:-2dB). It comply with the standard of 15.203 requirement.

END OF REPORT