

RADIO TEST REPORT FCC ID: 2AX5VMOPROU-NA

Product:Outdoor motion detectorTrade Mark:∧J∧×Model No.:Ajax MotionProtect Outdoor (9NA)Family Model:N/AReport No.:S21031001301001Issue Date:24 Mar. 2021

Prepared for

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

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China Tel. 400-800-6106, 0755-3699 5508 Website: http://www.ntek.org.cn



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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:	Outdoor motion detector
Model and/or type reference:	Ajax MotionProtect Outdoor (9NA)
Family Model:	N/A

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Measurement Procedure Used:

APPLICABLE STANDARDS				
STANDARD/ TEST PROCEDURE	TEST RESULT			
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C KDB 558074 D01 15.247 Meas Guidance v05r02 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.

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

Date of Test	:	10 Mar. 2021 ~ 23 Mar. 2021
Testing Engineer	:	17 Men løn
		(Allen Liu)
Technical Manager	:	Jasonchen
		(Jason Chen)
		der
Authorized Signatory	:	G
		(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	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				

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Remark:

1. "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 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. The Certificate Registration Number is 9270A. **IC-Registration** CAB identifier:CN0074 Test Firm Registration Number: 463705. **FCC-** Accredited **Designation Number: CN1184** The Certificate Registration Number is 4298.01 A2LA-Lab. 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. : : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Site Location 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%

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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification					
Equipment	Outdoor motion detector				
Trade Mark	XVYV				
FCC ID	2AX5VMOPROU-NA				
Model No.	Ajax MotionProtect Outdoor (9NA)				
Family Model	N/A				
Model Difference	N/A				
Operating Frequency	905 MHz~926.5MHz				
Modulation	GFSK				
Number of Channels	103 Channels				
Antenna Type	PCB Antenna				
Antenna Gain	-1.5dBi				
Power supply	DC supply: DC 3V from battery				
Power suppry	Adapter supply:				
HW Version	MPO.001.MBR.001v5[915], MPO.001.PIR.001v5				
SW Version	5.56.0.2				
FW Version	NA				

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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.

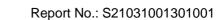


Revision History

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Certificate #4298.01

Report No.	Version	Description	Issued Date
S21031001301001	Rev.01	Initial issue of report	24 Mar. 2021





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		



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	
EUT	
For Conducted Test Cases	
C-2 Measurement Instrument	
Note: 1. The temporary antenna connector is soldered on the PCB board in order to and this temporary antenna connector is listed in the equipment list.	perform conducted tests



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.

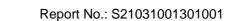
Item	Equipment	Model/Type No.	Series No.	Note

Item	Cable Type	Shielded Type	Ferrite Core	Length
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 [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

	liona conducted	loot oquipiniont					
Iter	m Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2020.05.11	2021.05.10	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2020.07.13	2021.07.12	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2020.08.07	2021.08.06	1 year
4	Test Receiver	R&S	ESPI7	101318	2020.05.11	2021.05.10	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2020.04.11	2021.04.10	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	2020.04.11	2021.04.10	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2020.05.11	2021.05.10	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2020.07.13	2021.07.12	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2020.05.11	2021.05.10	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2020.07.13	2021.07.12	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2020.07.13	2023.07.12	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2020.07.13	2021.07.12	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 5 Cable(1G-40G Hz)	N/A	R-04	N/A	2020.04.11	2021.04.10	1 year
16	5 Filter	TRILTHIC	2400MHz	29	2020.07.13	2021.07.12	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

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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(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

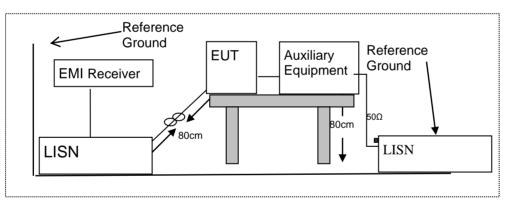
2. The lower limit shall apply at the transition frequencies

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.
- 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:	Outdoor motion detector		Ajax MotionProtect Outdoor (9NA)
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N/A
Test Voltage :	N/A	Test Mode:	N/A

Note: Not applicable, Device is powered by DC Power.



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 FOC Fait 15.200, Restricted bands					
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 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)		
Frequency(MITZ)	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.

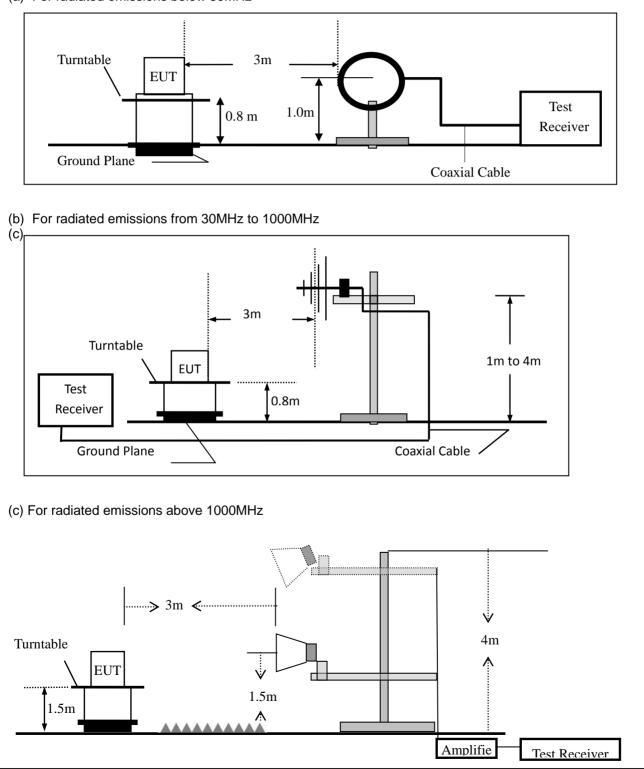


7.2.3 Measuring Instruments

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





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



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.



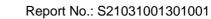
7.2.6 Test Results

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

EUT:	Outdoor motion detector	Model No.:	Ajax MotionProtect Outdoor (9NA)
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

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.





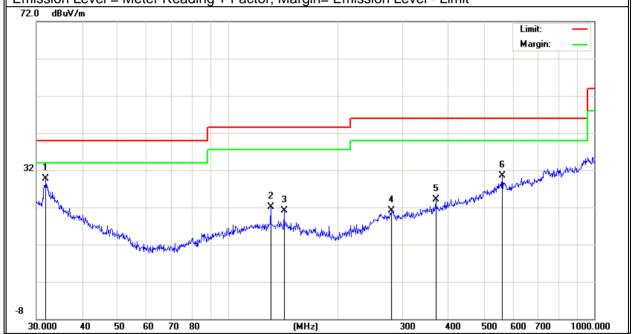
Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below:

EUT:	Outdoor motion detector		Ajax MotionProtect Outdoor (9NA)
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	DC 3V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	31.8427	11.92	17.87	29.79	40.00	-10.21	QP
V	130.8369	9.56	12.55	22.11	43.50	-21.39	QP
V	142.3243	8.83	12.24	21.07	43.50	-22.43	QP
V	280.0237	5.06	16.00	21.06	46.00	-24.94	QP
V	369.4045	7.27	16.92	24.19	46.00	-21.81	QP
V	560.6928	8.24	22.32	30.56	46.00	-15.44	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)	Roman
Н	31.0706	5.76	18.27	24.03	40.00	-15.97	QP
Н	50.0566	7.74	9.11	16.85	40.00	-23.15	QP
Н	123.2655	6.73	12.24	18.97	43.50	-24.53	QP
Н	279.0436	5.84	15.72	21.56	46.00	-24.44	QP
Н	564.6389	6.94	22.12	29.06	46.00	-16.94	QP
Н	848.0563	7.05	26.23	33.28	46.00	-12.72	QP
72.0 dB	u¥/m					Limit:	
						Margin:	
32						5	6 Mundhalu
							A CONTRACTOR OF
1 X			_	a melender herne mensen and her der	herewant	we have	
- Chrone	What had a south of the second s		3 X	where the	d Husselly when been been		
	and a start and a start	1. Martilly Mary	March marker with	mether has person whether			
	manythingut	Manhasanahanahar					
8							



Spurious	s Emis	sion A	Above	1GHz (1GI	Hz to	25G	Hz)					
EUT:		Outdo	oor mo	otion detec	tor	Mod	el No.:		Ajax	MotionPr	otect Outdo	oor (9NA)
Temperature	e :	20 ℃	2			Rela	tive Humidi	ty:	48%			
Test Mode:		Mode	e2/Mod	de3/Mode4		Test	By:		Allen	Liu		
All the modu	lation i	modes	s have	been teste	ed, ar	nd the	e worst resu	ult was	repo	rt as belo	w:	
Frequency		Read Cable Antenna Preamp Level loss Factor Factor		Emission	Lim	its	Margin		0			
(MHz)	(dBµ\		loss (dB)	Factor dB/m	rac (d		Level (dBµV/m)	(dBµ\	//m)	(dB)	Remark	Comment
	(uph,	•) ((ub)			,	MHz)(GFSK		,	(ub)		
1010	00.4		F 04			•	,,			45 47		Vertical
1810	82.4		5.21	26.5	55.		58.83	74.0		-15.17	Pk	Vertical
1810	61.5		5.21	26.5	55.		37.88	54.0		-16.12	AV	Vertical
2715	77.2		6.48	28.49	55.		57.14	74.0		-16.86	Pk	Vertical
2715	64.9		6.48	28.49	55.		44.79	54.0		-9.21	AV	Vertical
1810	81.5		5.21	26.5	55.		57.86	74.0		-16.14	Pk	Horizontal
1810	62.5		5.21	26.5	55.		38.86	54.0		-15.14	AV	Horizontal
2715	79.4		6.48	28.49	55.		59.31	74.0		-14.69	Pk	Horizontal
2715	60.6	3 6	6.48	28.49	55.		40.49	54.0		-13.51	AV	Horizontal
Mid Channel (915.85 MHz)(GFSK)-Above 1G												
1831.7	79.9	3 5	5.21	26.5	55.	35	56.29	74.0	00	-17.71	Pk	Vertical
1831.7	62.4	0 5	5.21	26.5	55.	35	38.76	54.0	00	-15.24	AV	Vertical
2747.55	80.3	0 7	7.10	28.49	55.	11	60.78	74.(00	-13.22	Pk	Vertical
2747.55	62.6	5 7	7.10	28.49	55.	11	43.13	54.0	00	-10.87	AV	Vertical
1829.5	81.1	3 5	5.21	26.5	55.	35	57.49	74.0	00	-16.51	Pk	Horizontal
1829.5	61.7	8 5	5.21	26.5	55.	35	38.14	54.0	00	-15.86	AV	Horizontal
2744.25	76.73	3 7	7.10	28.49	55.	11	57.21	74.0	00	-16.79	Pk	Horizontal
2744.25	63.24	4 7	7.10	28.49	55.	11	43.72	54.0	00	-10.28	AV	Horizontal
				High Cha	nnel (926.5	6 MHz)(GFSk	<) Abo	ove 10	3		
1855.5	80.8	4 5	5.21	26.5	55.	35	57.20	74.0	00	-16.80	Pk	Vertical
1855.5	61.3	6 5	5.21	26.5	55.	35	37.72	54.0	00	-16.28	AV	Vertical
2783.25	80.08		7.10	28.49	55.		60.56	74.0		-13.44	Pk	Vertical
2783.25	62.04		7.10	28.49	55.		42.52	54.0		-11.48	AV	Vertical
1855.5	84.6		5.21	35.52	55.		70.06	74.0	00	-3.94	Pk	Horizontal
1855.5	61.3		5.21	35.52	55.		46.69	54.0		-7.31	AV	Horizontal
2783.25	80.7		7.10	36.53	55.		69.24	74.0		-4.76	Pk	Horizontal
2783.25	61.8		7.10	36.53	55.		50.34	54.0		-3.66	AV	Horizontal

Note:

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



	Spurious E	missio	n in Restr	icted Band								
Εl	JT:		Outdoor	motion det	ector	M	odel No.:		Ajax	MotionPr	otect Outo	door (9NA)
Te	emperature:		20 °C			Re	elative Hum	idity:	48%			
Te	est Mode:		Mode2/ M	Node4		Τe	est By:		Allen	Liu		
A	All the modulation modes have been tested, an				ed, and	th	e worst res	ult wa	s repo	ort as be	ow:	
	Frequency	Readir Leve	0	Antenna Factor	Pream Facto	•	Emission Level	Lin	nits	Margin	Detector	Comment
	(MHz)	(dBµV	') (dB)	dB/m	(dB)		(dBµV/m)	(dBµ	V/m)	(dB)	Туре	
	1240	62.36	6 4.04	29.57	44.70)	51.27	7	4	-22.73	Pk	Vertical
	1240	58.38	4.04	29.57	44.70)	47.29	5	4	-6.71	AV	Vertical
	1240	62.76	6 4.04	29.57	44.70)	51.67	7	4	-22.33	Pk	Horizontal
	1240	57.99	4.04	29.57	44.70)	46.90	5	4	-7.10	AV	Horizontal
	1804.6	66.12	4.26	29.87	44.40)	55.85	7	4	-18.15	Pk	Vertical
	1804.6	54.68	4.26	29.87	44.40)	44.41	5	4	-9.59	AV	Vertical
	1804.6	63.29	4.26	29.87	44.4()	53.02	7	4	-20.98	Pk	Horizontal
	1804.6	53.35	6 4.26	29.87	44.4()	43.08	5	4	-10.92	AV	Horizontal

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



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



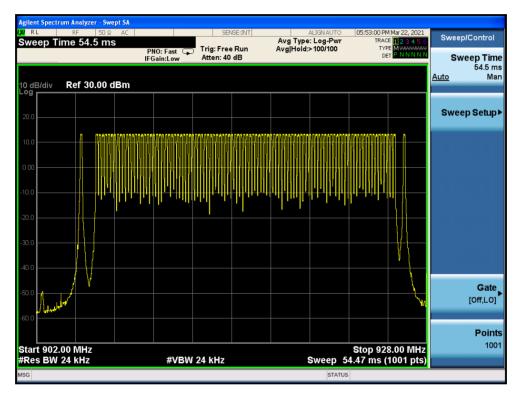
7.3.6 Test Results

EUT:	Outdoor motion detector	Model No.:	Ajax MotionProtect Outdoor (9NA)
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode 5(1Mbps)	Test By:	Allen Liu

Number of Hopping (Channel):

103

Number of Hopping Channel Plot





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

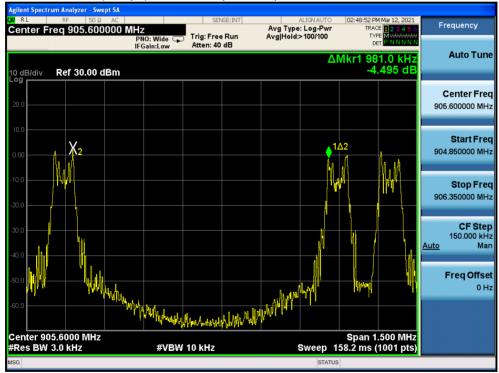


7.4.6 Test Results

EUT:	Outdoor r	motion detector	Model No.:		Ajax M	IotionProtect Outdoor (9NA)			
Temperature:	20 ℃		Relative Hum	idity:	ty: 48%				
Test Mode: Mode2/Mode3/Mode4			Test By:		Allen Liu				
Modulation Mode	Channel Number	Channel Frequency (MHz)	Measured Channel Separation (kHz)		Limit (kHz)		Verdict		
	01-02	902.50	981.0	>9	6.86	20dB BW	PASS		
GFSK	52-53	915.00	199	>9	7.20	20dB BW	PASS		
	102-103	926.50	579	>9	7.15	20dB BW	PASS		

Test Plot

(1Mbps) Channel Separation plot on channel 01-02







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

trum An - Swept SA Peak Search Avg Type: Log-Pwr Avg|Hold:>100/100 TRAC Marker 1 Δ 579.000000 kHz Trig: Free Run TYPE DET PNO: Wide 😱 IFGain:Low Atten: 40 dB Next Peak ΔMkr1 579.0 kHz 0.960 dB Ref 30.00 dBm 10 dB/div Next Pk Right 1Δ2 Next Pk Left X2 Marker Delta Mkr→CF Mkr→RefLvl MT MAL Millen. halled and the first of the fir More Center 926.3000 MHz #Res BW 3.0 kHz Span 1.500 MHz Sweep 158.2 ms (1001 pts) 1 of 2 #VBW 10 kHz

(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 \geq 1MHz 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:	Outdoor motion detector	Model No.:	Ajax MotionProtect Outdoor (9NA)
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Center Frequency (MHz)	Transmit Time per Hop (ms)	The Number of Hop Within a limited time (N)		Limits (s)	Result
915.85	38.64	1	0.03864	0.4	Pass

Note:

Ref 30.00 dE

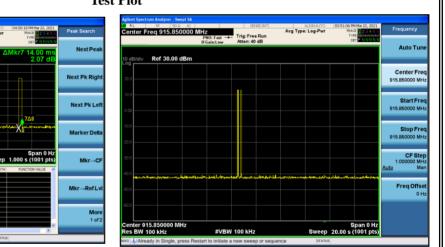
000 M

- 1. Ton=12.84ms*2+12.96ms=64.44ms
- 1. Sweep time= $0.4 \times$ Number of Hopping= 0.4×103 =42.6s;

Avg Type:

2. Dwell Time(s) = Transmit Timeper Hop \times N.

Trig: Free Run Atten: 40 dB



Test Plot



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	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 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

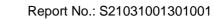
The testing follows ANSI C63.10-2013 clause 6.9.2 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating 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



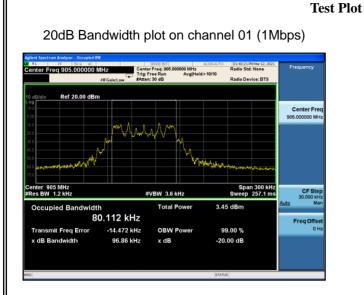
7.6.6 Test Results

EUT:	Outdoor motion detector	Model No.:	Ajax MotionProtect Outdoor (9NA)
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

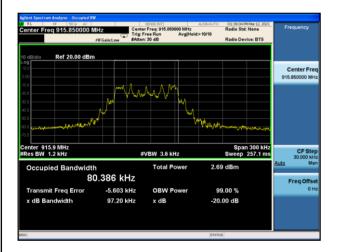
Test Channel	Frequency	Measured Bandwidth (KHz)	Limit	Verdict				
	(MHz)		(kHz)					
	1Mbps							
1	905.00	96.86	250	PASS				
52	915.85	97.20	250	PASS				
103	926.50	97.15	250	PASS				







20dB Bandwidth plot on channel 52 (1Mbps)



20dB Bandwidth plot on channel 103 (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 \geq RBW Sweep = auto Detector function = peak Trace = max hold

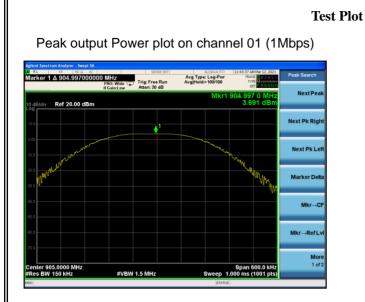


7.7.6 Test Results

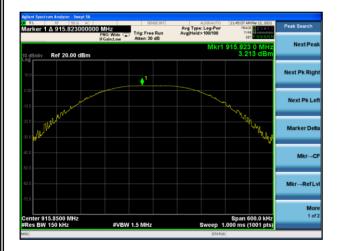
EUT:	Outdoor motion detector	Model No.:	Ajax MotionProtect Outdoor (9NA)
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Test Channel	Frequenc y	Power Setting	Peak Output Power	LIMIT	Verdict		
	(MHz)		(dBm)	(dBm)			
	1Mbps						
1	905.00	Default	3.691	30	PASS		
52	915.85	Default	3.213	30	PASS		
103	926.50	Default	3.021	30	PASS		

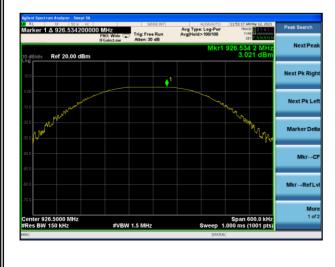




Peak output Power plot on channel 52 (1Mbps)



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.

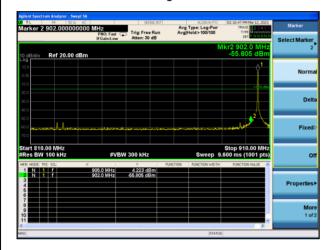


7.8.6 Test Results

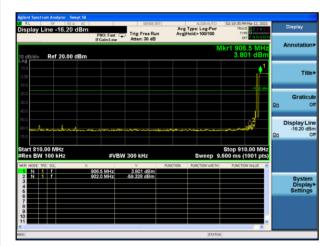
EUT:	Outdoor motion detector	INIOGELINO .	Ajax MotionProtect Outdoor (9NA)
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Allen Liu

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)

RL RF 50 Q AC arker 2 928.000000000	MUa	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	02:23:49 PM Mar 12, 2021 TRACE 12, 24 5 5	Marker
arker 2 928.000000000	PNO: Fast G	Trig: Free Run Atten: 30 dB	Avg Hold>100/100	DET NINNNN	Select Marker
dB/div Ref 20.00 dBm			Mk	r2 928.000 MHz -53.996 dBm	2
					Norm
				-16.32 dBm	
					Del
Minutation		*******		arianterista antister factorista	Fixed
art 925.00 MHz	#VBV	V 300 kHz	Sweep 1	Stop 980.00 MHz 5.267 ms (1001 pts)	
art 925.00 MHz Res BW 100 kHz		Y	Sweep 3	Stop 980.00 MHz 5.267 ms (1001 pts) FUNCTION VALUE	
AT 1925.00 MHz art 925.00 MHz tes BW 100 kHz N 10 r 922 N 1 r 922	#VBV 5.275 MHz 8.000 MHz	V 300 kHz ¥ 3.681 dBm -53.996 dBm		5.267 ms (1001 pts)	Fixed C Properties
Ministration Ministration art 925.00 MHz Ministration tes BW 100 kHz Ministration N 10 F 92 N 1 F 92	5.275 MHz	Y 3.681 dBm		5.267 ms (1001 pts)	c



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.

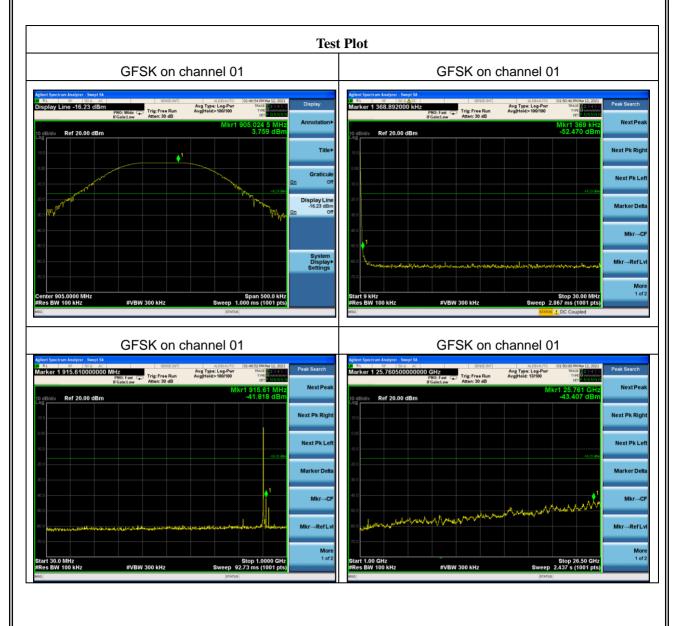
7.9.6 Test Results

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.













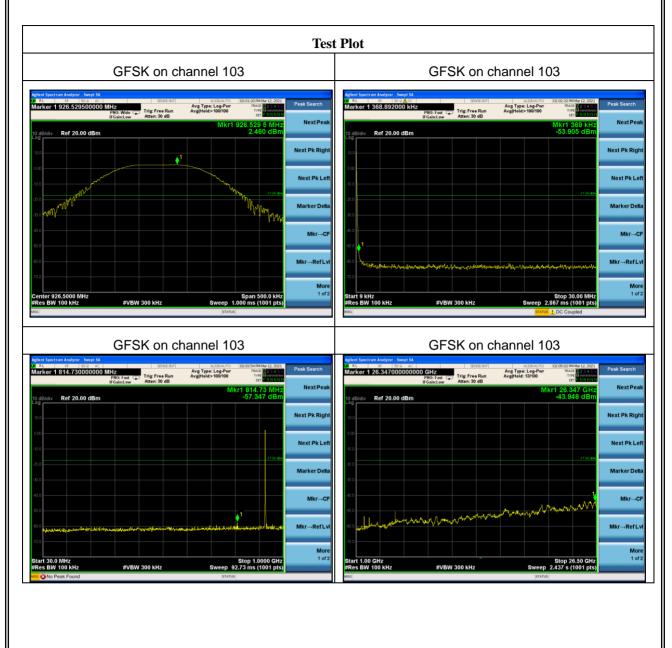


			Test	Plot			
	GFSK on a	channel 52		GFSK on channel 52			
And Swetrum Analyser Sweet SA All Swetrum Analyser Sweet SA Splat Line 47.07 dBm a Bloav Ref 20.00 dBm a Bloav	PRO-Wide Trig-Free Run FriGaint.ew Trig-Free Run Atten: 30 dB	Mkr1 916.868 5 MHz 2.932 dBm	Display Annotation> Title> Graticule On Off Display Line -17.07 dBm On Off System Display> Settings	Agilant System Anagers - Swept M. Marker 1 998.883000 kHz 10 dB/div Ref 20.00 dBm 10 dB/div R	FCaint.ow Atten: 30 dB	Arg Type: Log-Por Arg Type: Log-Por Arg Type: Log-Por Arg Type: Log-Por Arg Type: Log-Por Arg Type: Log-Por Arg Type: Log-Por Stop 30.00 MH Sweep 2.887 m (200 pt)	Next Pk Rig Next Pk Rig Next Pk L Marker De Mkr-H
jlent Spectrem Analyzer - Swept SA RL 67 75 G AC	GFSK on o	al (GNALITO 06-21-21 PM arr 12:2021	Peak Search	Aglient Spectrum Analyzer Swept SA 12 R R Production Production Marker 1 2.46875000000	GFSK on ch	al (314) ITO 06-20-09 PM arr 12 202	Peak Search
arker 7 7/9.810000000	Mino Fael (Trig Free Run FrEeinstew Atten: 30 dB	Avg Type: Log-Wur Avg Heid>100100 Two Company Mkr1 779,81 MHz -59,978 dBm	Next Peak Next Pk Right Next Pk Left Marker Delta	Marker 1 2.45675000000	HROF Fail (Trig: Free Run FrGaintaw Atten: 30 dB	Avg Type: Log-Pur Type: Log-Pu	Next Pe Next Pk Rig Next Pk L Marker De
00 00 00 10 10 10 10 10 10 10	#VBW 300 kHz	Stop 1.0000 GHz Sweep 92.73 ms (1001 pts)	Mkr→CF Mkr→RefLvl More 1 of2	100 100 100 100 100 100 100 100	#VBW 300 kHz	Stop 12.750 GH: Sweep 1.123 s (1001 pts	Mkr→Refi Mkr→Refi Mc











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 PCB Antenna (Gain:-1.5dBi). It comply with the standard of 15.203 requirement.

END OF REPORT