

# FCC RADIO TEST REPORT FCC ID: 2ABH3FOD43TA-BL

**Product**: Digital wireless observation system

**Trade Name: FURRION** 

Model Name: FOS48TA-BL

Serial Model: FOD43TA-BL,FOC48TA-BL

Report No.: NTEK-2015NT0114235F-01

### **Prepared for**

Furrion Ltd.

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# Prepared by

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in the revision of



	TEST RE	SULT CERTIFICATION		
Applicant's name	Furrion Ltd. Suite 3-5, 16/F Pacific Plaza, 410 Des Voeux Road West, Sai Wan, Hong Kong.			
Manufacture's Name:	Dongguan Protronic Electronics Ltd.			
Address:	Protronic Industrial Park, Xiangxi Village, Shipai Town,DongGuan, GuangDong, China			
Product description				
Product name:	Digital wi	reless observation system		
Model and/or type reference :	FOS48TA	4-BL		
Serial Model:	FOD43T/	A-BL,FOC48TA-BL		
Standards:	FCC Part	t15.247: 01 Oct. 2014		
Test procedure	ANSI C6	3.10-2013		
	n compliar	sted by NTEK, and the test results show that the nce with the FCC requirements. And it is applicable only rt.		
•	rised by N	t in full, without the written approval of NTEK, this TEK, personnel only, and shall be noted in the revision o		
Date (s) of performance of tests	:	25 Jun. 2015 ~03 Jul. 2015		
Date of Issue	:	03 Jul. 2015		
Test Result	:	Pass		
Testing Engine	eer :	Danny Harry		
		Denny Huang		
Technical Man	ager :	Brown Lu		
		(Brown Lu)		
Authorized Sig	gnatory :	Bin		
		(Bill Yao)		



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#### 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.247(c)	Radiated Spurious Emission	PASS	
15.205	Band Edge Emission	PASS	

Note: This C2PC testing, the changed is: Only change the layout of board and RF module to earth, Circuit and RF module are the same. details please see SCS-F159 FCC Class II Permissive Change Request Letter.



#### 1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

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

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

#### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %  $^{\circ}$ 

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

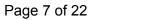
Equipment	Digital wireless observation system			
Trade Name	FURRION			
Model Name	FOS48TA-BL			
Serial Model	FOD43TA-BL,FOC48TA-BI	_		
Model Difference	All the model are the same circuit and RF module, except the model name and colour.			
Product Description	The EUT is a Digital wireless observation system  Operation Frequency: 2403~2478 MHz  Modulation Type: QPSK  Number Of Channel 26 CH  Antenna Designation: Please see Note 3.			
Channel List	Please refer to the Note 2.			
Adapter	N/A			
Battery	N/A			
Connecting I/O Port(s)	Please refer to the User's N	Please refer to the User's Manual		

#### Note

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

	Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
01	2403	11	2433	21	2463	
02	2406	12	2436	22	2466	
03	2409	13	2439	23	2469	
04	2412	14	2442	24	2472	
05	2415	15	2445	25	2475	
06	2418	16	2448	26	2478	
07	2421	17	2451			
08	2424	18	2454			
09	2427	19	2457			
10	2430	20	2460			







3.

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Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	External Antenna	N/A	3.0	BT Antenna



#### 2.2 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.

Pretest Mode	Description
Mode 1	CH01
Mode 2	CH14
Mode 3	CH26
Mode 4	normal link

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For Conducted Emission		
Final Test Mode	Description	
Mode 4	normal link	

For Radiated Emission		
Final Test Mode	Description	
Mode 1	CH01	
Mode 2	CH14	
Mode 3	CH26	

#### Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT use new battery.
- (3)The data rate was set in 3Mbps for radiated emission due to the highest RF output power.

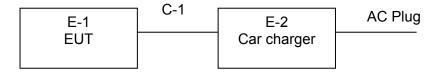
#### 2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	Test program: Broadcom			
Frequency	2403 MHz 2442 MHz 2478 MHz			
Parameters(1/2/3Mbps)	DEF	DEF	DEF	



# 2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





#### 2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Digital wireless observation system	FURRION	FOS48TA-BL	N/A	EUT
E-2	Car charger	N/A	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	120cm	

#### Note:

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



#### 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of	Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment				calibration	until	n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2014.07.06	2015.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2015.06.07	2016.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.06	2015.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2015.06.07	2016.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.07	2016.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2014.07.06	2015.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.07.06	2015.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2014.07.06	2015.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2014.07.06	2015.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2015.06.06	2016.06.05	1 year
2	LISN	R&S	ENV216	101313	2014.08.24	2015.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2014.08.24	2015.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2015.06.07	2016.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.07	2016.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2015.06.08	2016.06.07	1 year
7	Test Cable	N/A	C01	N/A	2015.06.08	2016.06.07	1 year
8	Test Cable	N/A	C02	N/A	2015.06.08	2016.06.07	1 year
9	Test Cable	N/A	C03	N/A	2015.06.08	2016.06.07	1 year

1	Attenuation	MCE	24-10-34	BN9258	2015.06.08	2016 06 07	1 year
_					2013.00.00	2010.00.01	. ,



#### 3. EMC EMISSION TEST

#### 3.1 RADIATED EMISSION MEASUREMENT

#### 3.1.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

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.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

	Class B (dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower



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

#### 3.1.2 TEST PROCEDURE

- 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 open area test site. 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. 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.
- e. 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.
- f. 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
	Peak	1 MHz	1 MHz
Above 1000	Peak	1 MHz	10 Hz

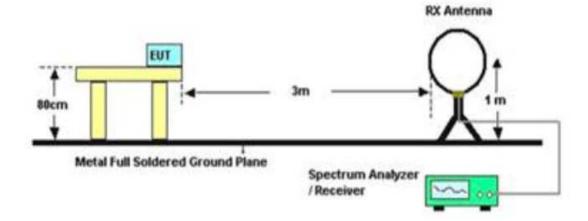
#### 3.1.3 DEVIATION FROM TEST STANDARD

No deviation

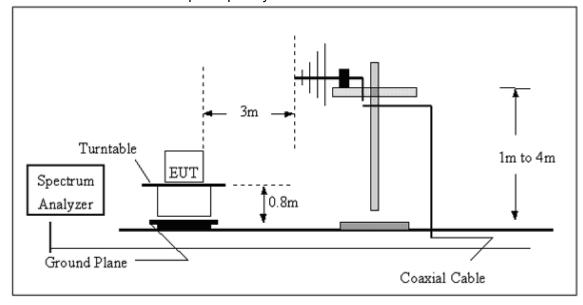


#### 3.1.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

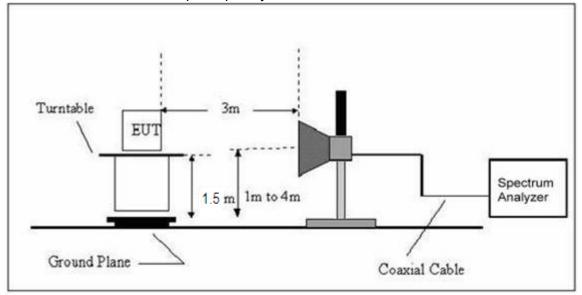


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





#### (C) Radiated Emission Test-Up Frequency Above 1GHz



#### 3.1.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



# 3.1.6 TEST RESULTS (BELOW 30 MHZ)

IF()   .	Digital wireless observation system	Model Name :	FOS48TA-BL
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 12V
Test Mode :	TX	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m) (dB)		P/F
				Р
				Р

#### NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =20 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.



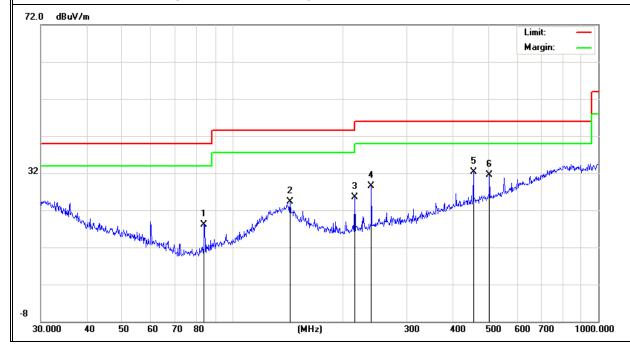
# 3.1.7 TEST RESULTS (BETWEEN 30M - 1000 MHZ)

EUI •	Digital wireless observation system	Model Name :	FOS48TA-BL
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010hPa	Test Mode:	TX
Test Voltage :	DC 12V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits Margin		Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	7101110111	
V	83.8156	11.55	6.63	18.18	40.00	-21.82	QP	
V	143.8295	13.28	11.03	24.31	43.50	-19.19	QP	
V	216.0240	13.57	11.86	25.43	46.00	-20.57	QP	
V	239.9874	15.06	13.49	28.55	46.00	-17.45	QP	
V	455.9058	12.84	19.42	32.26	46.00	-13.74	QP	
V	504.7062	11.11	20.39	31.50	46.00	-14.50	QP	

#### Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

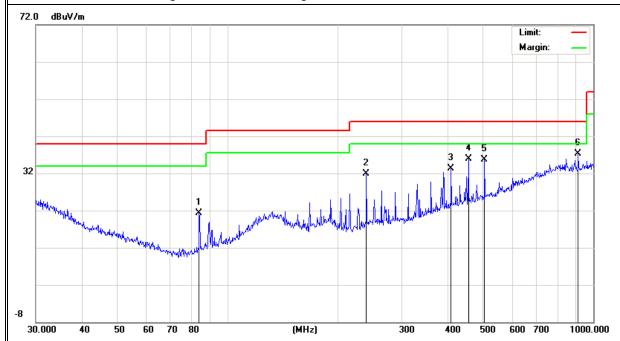




Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Kernark
Н	83.8156	14.58	6.63	21.21	40.00	-18.79	QP
Н	239.9874	18.40	13.49	31.89	46.00	-14.11	QP
Н	408.9460	14.78	18.49	33.27	46.00	-12.73	QP
Н	455.9057	16.46	19.42	35.88	46.00	-10.12	QP
Н	504.7062	15.31	20.39	35.70	46.00	-10.30	QP
Н	909.6666	10.15	27.07	37.22	46.00	-8.78	QP

#### Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit





# 3.1.8 TEST RESULTS (ABOVE 1000 MHZ)

IEUI •	Digital wireless observation system	Model Name :	FOS48TA-BL
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010hPa	Test Mode:	TX
Test Mode :	DC 12V		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remar	Commont
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	k	Comment
Low Channel (2403 MHz)-Above 1G							
4806.142	59.53	-3.69	55.84	74.00	-18.16	Pk	Vertical
4806.142	41.95	-3.69	38.26	54.00	-15.74	AV	Vertical
7209.204	52.45	-0.91	51.54	74.00	-22.46	Pk	Vertical
7209.204	37.45	-0.91	36.54	54.00	-17.46	AV	Vertical
4806.305	59.64	-3.69	55.95	74.00	-18.05	Pk	Horizontal
4806.305	41.42	-3.69	37.73	54.00	-16.27	AV	Horizontal
7209.206	54.1	-0.91	53.19	-0.91	54.10	Pk	Horizontal
7209.206	37.43	-0.91	36.52	-0.91	37.43	AV	Horizontal
		Mid Ch	annel (2441 MHz)-A	Above 1G	<u> </u>	1 1	
4884.147	60.03	-3.74	56.29	74.00	-17.71	Pk	Vertical
4884.147	40.54	-3.74	36.80	54.00	-17.20	AV	Vertical
7326.258	56.35	-0.88	55.47	74.00	-18.53	Pk	Vertical
7326.258	41.43	-0.88	40.55	54.00	-13.45	AV	Vertical
4884.362	59.03	-3.74	55.29	74.00	-18.71	Pk	Horizontal
4884.362	40.22	-3.74	36.48	54.00	-17.52	AV	Horizontal
7326.214	56.24	-0.88	55.36	74.00	-18.64	Pk	Horizontal
7326.214	40.64	-0.88	39.76	54.00	-14.24	AV	Horizontal
	1	High Ch	annel (2480 MHz)-	Above 1G		1 1	
4956.158	59.43	-3.32	56.11	74.00	-17.89	Pk	Vertical
4956.158	42.59	-3.32	39.27	54.00	-14.73	AV	Vertical
7434.306	53.94	-0.46	53.48	74.00	-20.52	Pk	Vertical
7434.306	38.13	-0.46	37.67	54.00	-16.33	AV	Vertical
4956.209	58.23	-3.32	54.91	74.00	-19.09	Pk	Horizontal
4956.209	40.24	-3.32	36.92	54.00	-17.08	AV	Horizontal
7434.143	53.81	-0.46	53.35	74.00	-20.65	Pk	Horizontal
7434.143	37.16	-0.46	36.70	54.00	-17.30	AV	Horizontal



# 4. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

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)).

#### **TEST PROCEDURE**

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) 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.
- e) Repeat above procedures until all measured frequencies were complete.

#### 4.1 DEVIATION FROM STANDARD

No deviation.

#### **4.2 TEST SETUP**

EUT	SPECTRUM
	ANALYZER

#### 4.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



# 4.4 TEST RESULTS

IEUI •	Digital wireless observation system	Model Name :	FOS48TA-BL
Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 12V
Test Mode :	CH01/ CH26		

# Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Commont	
(MHz)	(dBμV)	(dB)	(dBµV/m)	(dBμV/m)	(dB)	Туре	Comment	
	Non-hopping							
2390	56.24	-13.06	43.18	74.00	-30.82	peak	Vertical	
2390	57.36	-13.06	44.30	74.00	-29.70	peak	Horizontal	
2483.5	56.17	-12.78	43.39	74.00	-30.61	peak	Vertical	
2483.5	58.28	-12.78	45.50	74.00	-28.50	peak	Horizontal	
			hopping					
2390	57.19	-13.06	44.13	74.00	-29.87	peak	Vertical	
2390	58.28	-13.06	45.22	74.00	-28.78	peak	Horizontal	
2483.5	56.42	-12.78	43.64	74.00	-30.36	peak	Vertical	
2483.5	58.51	-12.78	45.73	74.00	-28.27	peak	Horizontal	

 $\textbf{No} te: \ \textit{Refer to chapter 3.2 test method, When PK value is lower than the Average value limit, average didn't record.}$ 



# **5. EUT TEST PHOTO**





