



No.: WDZ1409290916A

(Replace report WDZ1409290916, the original report become invalid)

TEST REPORT

Sample Name: VegaAIS

Applicant Name: Vega Industries Limited

Manufacturer: Vega Industries Limited

Supplier: /

Buyer: /

Shenzhen Yitong Testing Technology Co., Ltd



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TEST REPORT

No.: WDZ1409290916A

Date: Sep 29, 2014

Page 1 Of 35

(Replace report WDZ1409290916, the original report become invalid)

Applicant Name: Vega Industries Limited

Address: 21 Heriot Drive, Porirua, New Zealand 5022

Sample Information

Sample Name: VegaAIS
Sample No.: WZH1408270916
Sample Model: 1E
Sample Size: 245mm (dia.) × 130mm (H)
Sample Weight: 1.6kg
Sample Quantity: 1 PC
Sample Description: Normal
Manufacturer: Vega Industries Limited

Test Information

Test Items: Dry Heat, Damp Heat, Low Temperature, Vibration Test, Rain and Spray, Safety Precautions
Receive Date: Aug 26, 2014
Testing Date: Sep 15, 2014 to Sep 24, 2014
Preconditioning: /

Test Result

Please refer to page 2.

Authorized: *Sun*

Checked: *Jaindas*

Tested: *Rock*



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Test Result

Test Items	Criterion	Test Result	Conclusion
Dry Heat	--- AIS Watchmate Receiver receives 1 time per minute. --- The MMSI number by the VegaAIS unit is "995121021".	Meet the requirement.	Pass
Dry Heat	--- The peak to peak amplitude of the signal is 1.5V±0.2V, the transmission duration is 36ms±5ms on the oscilloscope which is triggered coincident with the transmissions seen by the AIS WatchMate Receiver.	Meet the requirement.	Pass
Damp Heat	--- The AIS unit's LED is green most of the time, however, a red 103 or 101 code flashed out approximately once per minute is accepted.	Meet the requirement.	Pass
Low Temperature	No water getting into the sample.	Meet the requirement.	Pass
Vibration Test	The test stick can not contact the hazardous parts of the sample.	Meet the requirement.	Pass
Rain and spray		Meet the requirement.	Pass
Safety precautions		Meet the requirement.	Pass

Remark:

Pass Test item meets the requirement
 Fail Test item does not meet the requirement
 N/A Test case does not apply to the test object



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Test Item 1: Dry Hest (Storage Test)

1. Test Standard: IEC 60945:2002-2008 Section 4.4 Clause 8.2.1

2. Test Equipment:

Equipment Name	Equipment Model	Equipment NO.	Calibration Useful-life
Temperature & Humidity Chamber	GLH41F	TTS-YQ-121	May 9, 2015

3. Test Remark & Notes:

- (1) Place the sample into the Temperature & Humidity Chamber.
- (2) Adjust the inner temperature to 70°C within 60min, keep the sample in that environment for 12h.
- (3) Return the sample to normal environment condition after the test, then check the performance of it.

Test Item 2: Dry Hest (Functional Test)

1. Test Standard: IEC 60945: 2002-2008 Section 4.4 Clause 8.2.2

2. Test Equipment:

Equipment Name	Equipment Model	Equipment NO.	Calibration Useful-life
Temperature & Humidity Chamber	GLH41F	TTS-YQ-120	May 9, 2015

3. Test Remark & Notes:

- (1) Place the sample with operational into the Temperature & Humidity Chamber.
- (2) Adjust the inner temperature to 55°C within 60min, keep the sample in that environment for 12h.
- (3) Check the performance of the sample during and after the test, then return the sample to normal environment conditions after the test.



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Test Item 3: Damp Heat (Functional Test)

1. Test Standard: IEC 60945: 2002-2008 Section 4.4 Clause 8.3

2. Test Equipment:

Equipment Name	Equipment Model	Equipment NO.	Calibration Useful-life
Temperature & Humidity Chamber	GLH41F	TTS-YQ-120	May 9, 2015

3. Test Remark & Notes:

- (1) Place the sample with operational into the Temperature & Humidity Chamber.
- (2) Adjust the inner temperature and humidity to 40°C, 93%RH within 180min, power-off the sample, and keep it in that environment for 10h. Then power-on the sample, and keep it in that environment for 2h.
- (3) Power-off the sample, return it to normal environment conditions, and keep it in that environment for 3h.
- (4) Check the performance of the sample during power-on condition and after the test.



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Test Item 4: Low Temperature (Functional Test)

1. Test Standard: IEC 60945: 2002-2008 Section 4.4 Clause 8.4.2.6

2. Test Equipment:

Equipment Name	Equipment Model	Equipment NO.	Calibration Useful-life
Temperature & Humidity Chamber	GLH41F	TTS-YQ-120	May 9, 2015

3. Test Remark & Notes:

- (1) Place the sample with operational into the Temperature & Humidity Chamber.
- (2) Adjust the inner temperature and humidity to -25℃ within 60min, power-off the sample, and keep it in that environment for 10h. Then power-on the sample, and keep it in that environment for 2h.
- (3) Power-off the sample, and return it to normal environment condition, and keep it in that environment for 3h.
- (4) Check the performance of the sample during power-on condition and after the test.



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Test Item 5: Vibration Test

1. Test Standard: IEC 60945: 2002-2008 Section 4.4 Clause 8.4.7

2. Test Equipment:

Equipment Name	Equipment Model	Equipment NO.	Calibration Useful-life
Vibration System	EM-600F2K-40N120	TTS-YQ-058	Jan 20, 2015
Vibration System	DLS-5000-60	TTS-YQ-072	May 14, 2015

3. Test Remark & Notes:

(1) Fix the sample on the vibration table, the test conditions are as below:

Condition ①: X/Y-axes Vibration

--- Vibration Frequency: 2Hz to 13.2Hz, Amplitude: 1mm(0-p)

--- Vibration Frequency: 13.2Hz to 100Hz, Acceleration: 0.7g

--- Swept Rate: 0.5oct/min

--- Number of cycle: 1cycle/axis

Condition ②: Z-axis Vibration

--- Vibration Frequency: 2Hz to 13.2Hz, Amplitude: 1mm(0-p)

--- Vibration Frequency: 13.2Hz to 100Hz, Acceleration: 0.7g

--- Swept Rate: 0.5oct/min

--- Number of cycle: 1cycle/axis

(2) During the test, monitor the vibration of sample and search for the resonance point, if not, vibrate for 120min at the point with the frequency of 30Hz, acceleration of 0.7g.

(3) Check the performance of the sample during and after the test.

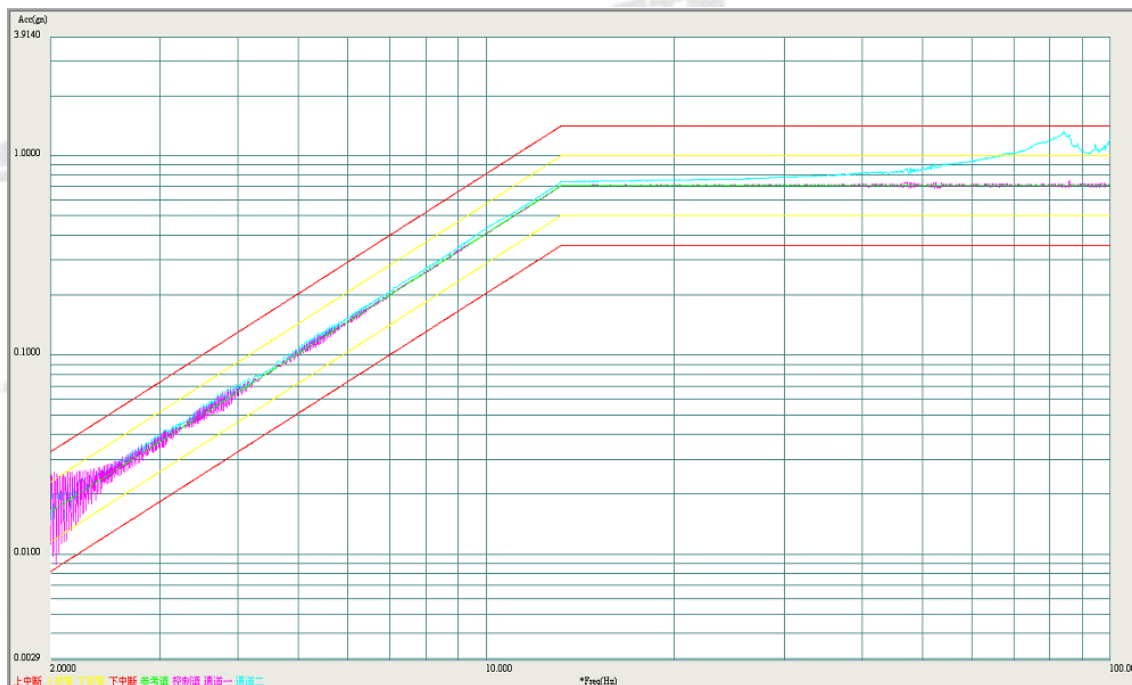
(4) The test curves are attached to page 7 to 10.

Note: 1. At Z-axis vibration, the sample can't vibrate at frequency of 2Hz to 5Hz, so it starts at frequency of 5Hz.

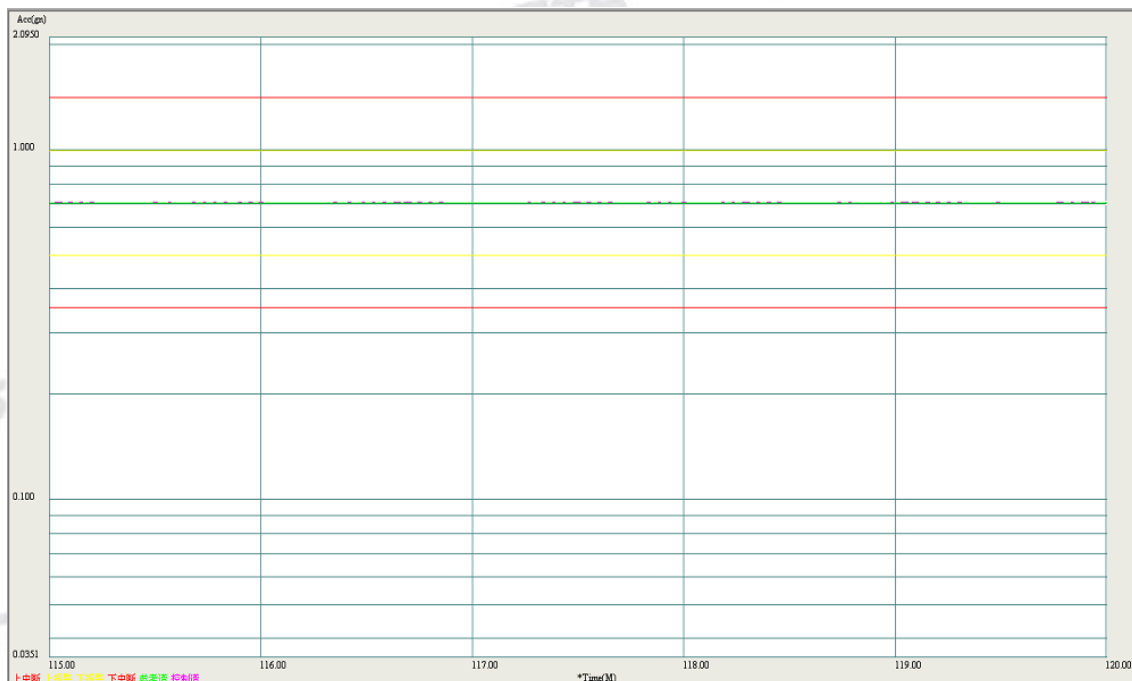
2. There is no resonance point at all axes vibration during the test.



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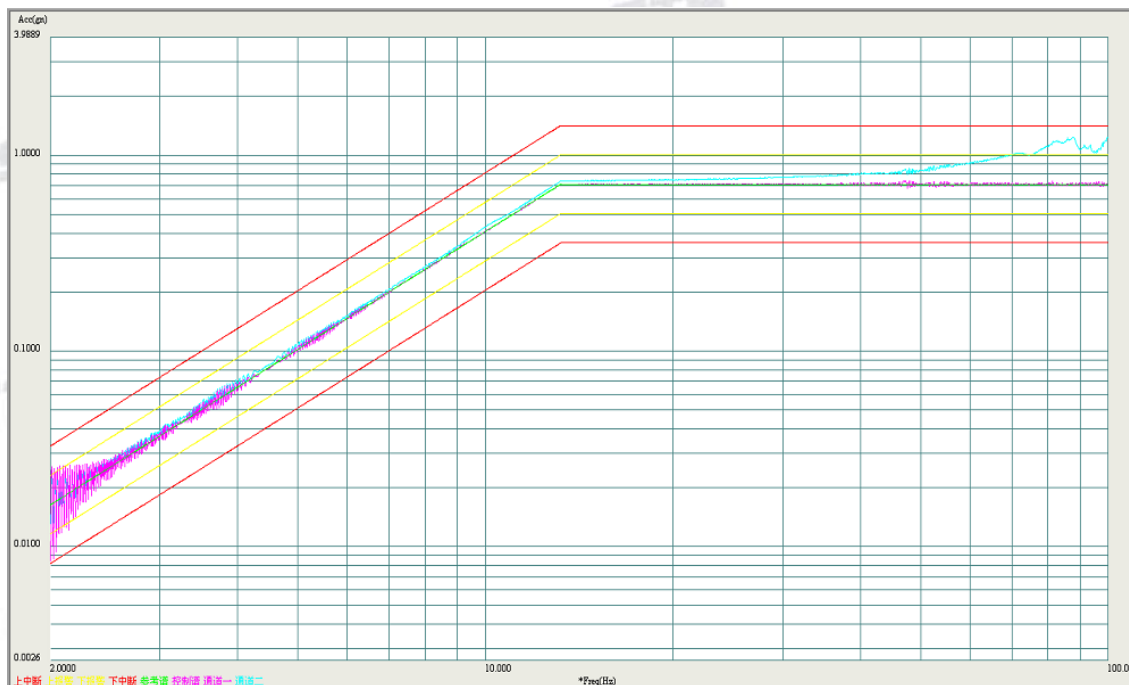
X-axis Swept Vibration Monitoring Curve



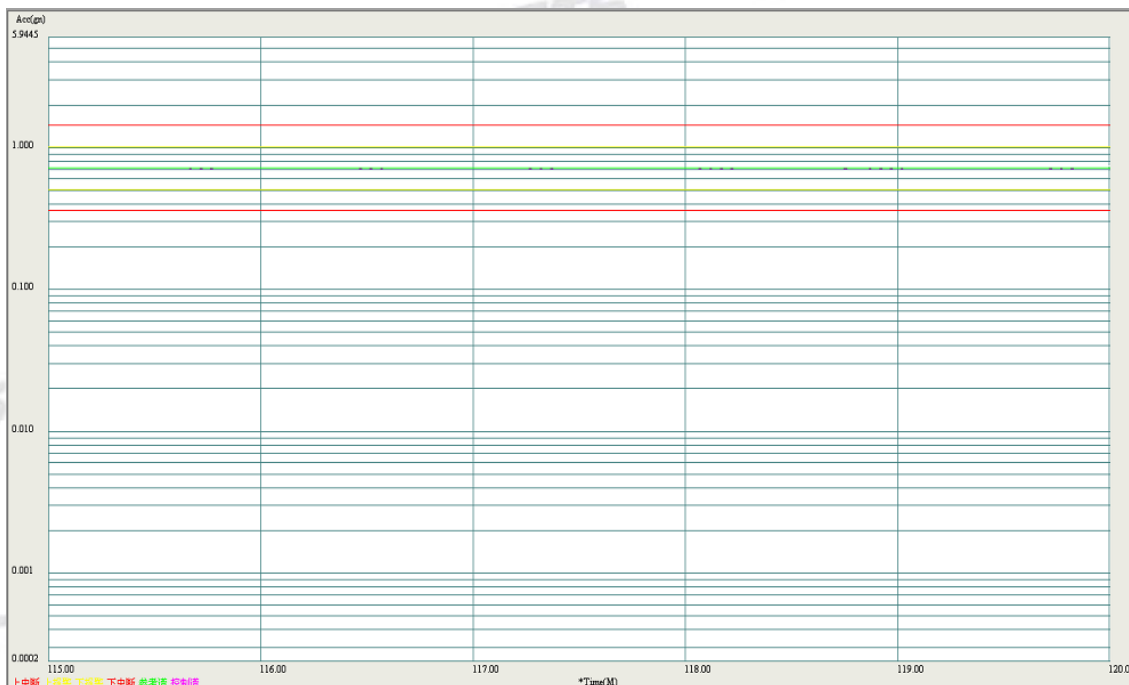
X-axis Fixed Frequency Vibration Curve (30Hz, 0.7g)



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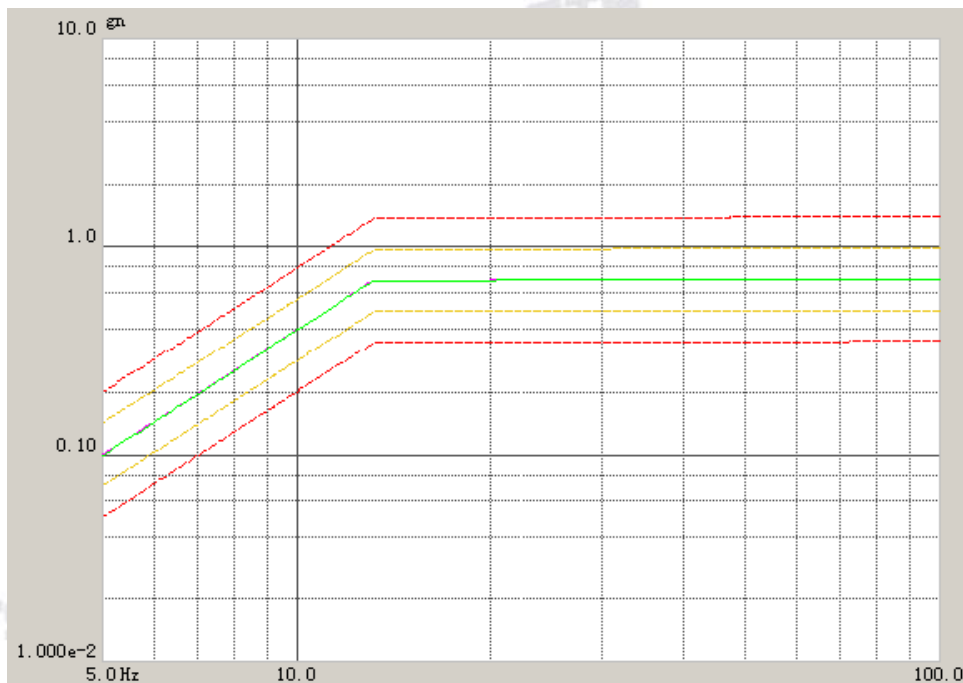
Y-axis Swept Vibration Monitoring Curve



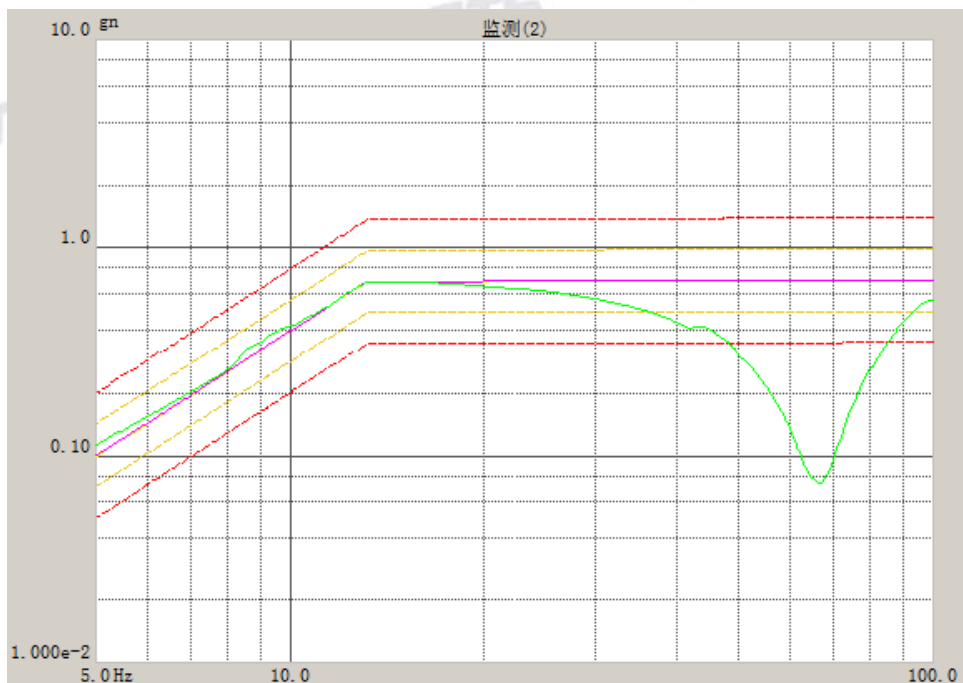
Y-axis Fixed Frequency Vibration Curve (30Hz, 0.7g)



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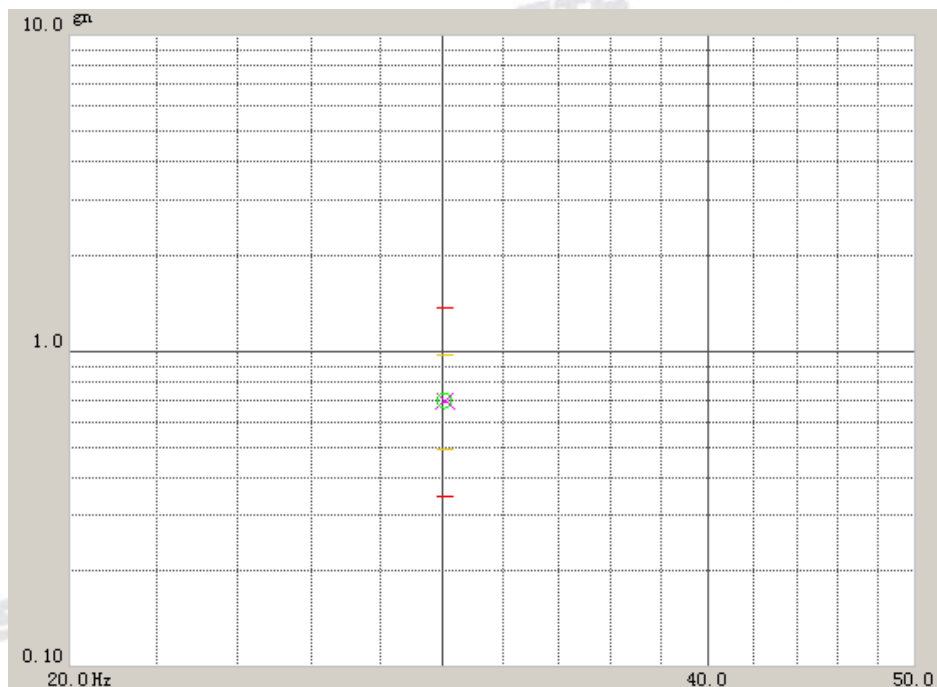
Z-axis Swept Vibration Curve



Z-axis Swept Vibration Monitoring Curve



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Z-axis Fixed Frequency Vibration Curve(30Hz,0.7g)



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Test Item 6: Rain and spray

1. Test Standard: IEC 60945: 2002-2008 Section 4.4 Clause 8.8

2. Test Equipment:

Equipment Name	Equipment Model	Equipment No.	Calibration Useful-life
F300 Inline Flow Meter	F SERIES	TTS-YQ-081	Jul 23, 2015
Nozzle	Φ12.5mm	TTS-YQ-090	Jan 20, 2015

3. Test Remark & Notes:

(1) Use spray nozzle to spray water on the sample in all directions, and the test conditions are as below:

--- Inside nozzle diameter: 12.5mm

--- Water flow: (100±5)L/min

--- Water pressure: Adjusting as the required water flow

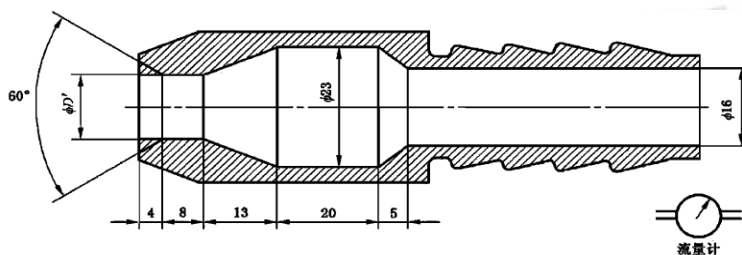
--- Center part of the main flow:

The round which diameter is 120mm and 2.5m away from the spray nozzle

--- Test time: 30min

--- The distance between spray nozzle and surface of the cover: 2.5m to 3m

(2) Check the performance of the sample after the test.



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Test Item 7: Safety precautions

1. Test Standard: IEC 60945: 2002-2008 Section 4.6 Clause 12.1

2. Test Equipment:

Equipment Name	Equipment Model	Equipment No.	Calibration Useful-life
D Test Joint Stick	FZ-1101-A	TTS-YQ-084	Aug 13, 2015

3. Test Remark & Notes:

Get the test stick whose diameter is 12mm and length is 80mm close to the gap of the sample, and observe whether it can contact the hazardous parts of the sample.



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Appendix: Test Pictures

Pre-test:



The Sample

Testing:

Dry Hest (Storage Test):



工艺编辑							
已设置工艺数: 0018				时间: 000013:45		步数: 003	
No	小时	分钟	温度值	湿度值	T.R	H.R	TS1
1	1	0	70.0	0.0	1	0	0
2	12	0	70.0	0.0	0	0	0
3	0	45	25.0	0.0	1	0	0

Dry Hest (Functional Test):



工艺编辑							
已设置工艺数: 0019				时间: 000013:30		步数: 003	
No	小时	分钟	温度值	湿度值	T.R	H.R	TS1
1	1	0	55.0	0.0	1	0	0
2	12	0	55.0	0.0	0	0	0
3	0	30	25.0	0.0	1	0	0



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The AIS unit's LED is green



The AIS unit's LED A red 103 code



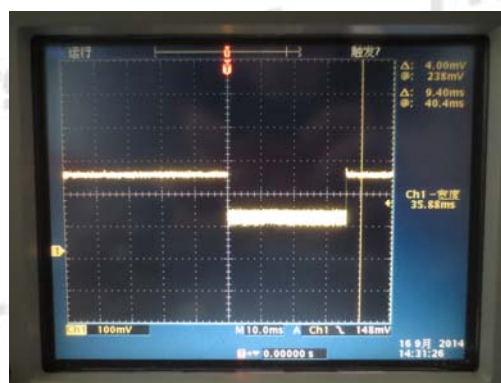
AIS WatchMate Receiver DC 12V



The MMSI number is "995121021"



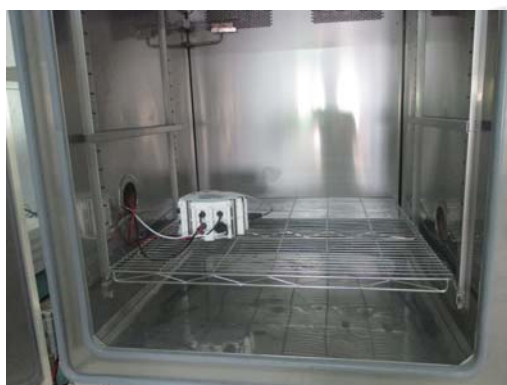
RF Power 5VDC



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Vega AIS and Vega Beacon DC 12V
Damp Hest (Functional Test):



工艺编辑								
已设置工艺数: 0019			时间: 000018:15			步数: 004		
No	小时	分钟	温度值	湿度值	T.R	H.R	TS1	
1	3	0	40.0	93.0	1	1	0	
2	12	0	40.0	93.0	0	0	0	
3	0	15	25.0	50.0	1	1	0	
4	3	0	25.0	50.0	0	0	0	



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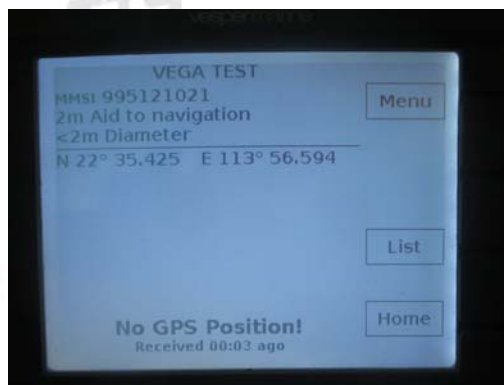
The AIS unit's LED is green



The AIS unit's LED A red 103 code



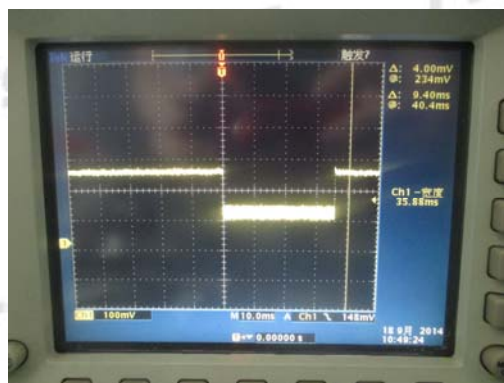
AIS WatchMate Receiver DC 12V



The MMSI number is "995121021"



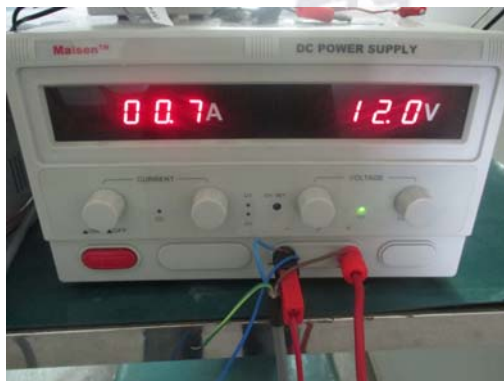
RF Power 5VDC



The transmission duration is 36ms±5ms



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Vega AIS and Vega Beacon DC 12V
Low Temperature (Functional Test):



工艺编辑								
已设置工艺数: 0019			时间: 000016:50			步数: 004		
No	小时	分钟	温度值	湿度值	T.R	H.R	TS1	
1	1	0	-25.0	0.0	1	1	0	
2	12	0	-25.0	0.0	0	0	0	
3	0	50	25.0	0.0	1	0	0	
4	3	0	25.0	0.0	0	0	0	
温度等待: 0.0 °C 湿度等待: 0.0 %								
输入	删除	上移	下移	循环				



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The AIS unit's LED is green



The AIS unit's LED A red 103 code



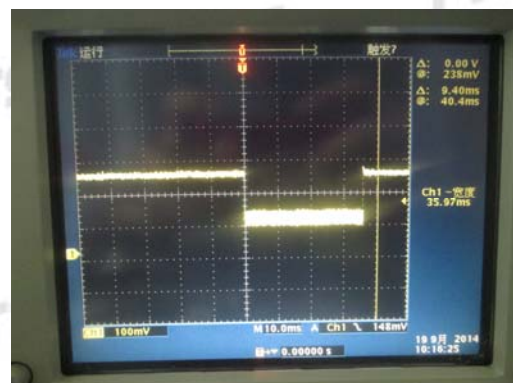
AIS WatchMate Receiver DC 12V



The MMSI number is "995121021"



RF Power 5VDC



The transmission duration is 36ms±5ms



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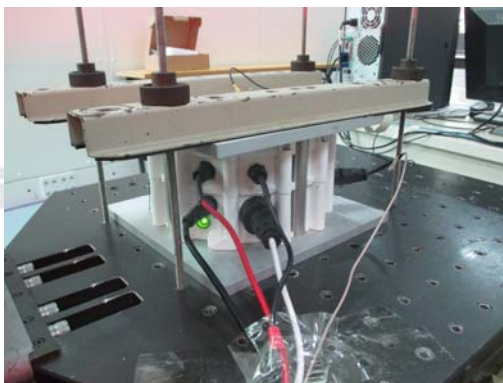


Vega AIS and Vega Beacon DC 12V

Vibration Test:



X-axis Vibration



The AIS unit's LED is green



The AIS unit's LED A red 103 code



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Swept Vibration:



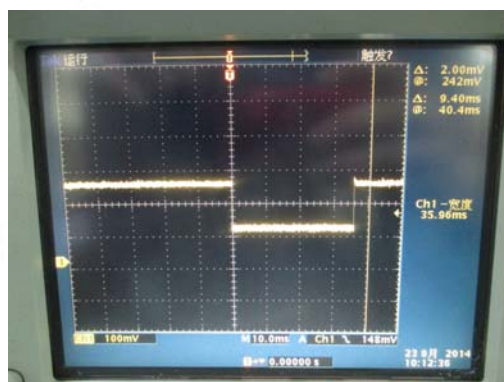
AIS WatchMate Receiver DC 12V



The MMSI number is "995121021"



RF Power 5VDC



The transmission duration is 36ms±5ms



Vega AIS and Vega Beacon DC 12V



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Fixed Frequency Vibration:



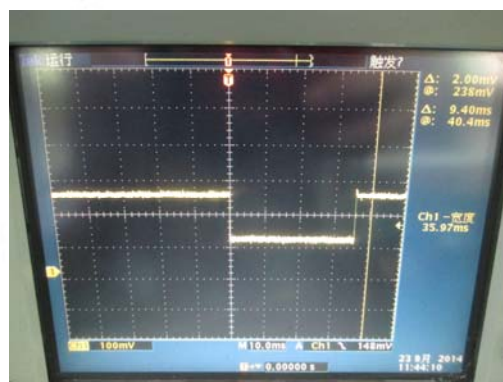
AIS WatchMate Receiver DC 12V



The MMSI number is "995121021"



RF Power 5VDC



The transmission duration is 36ms±5ms



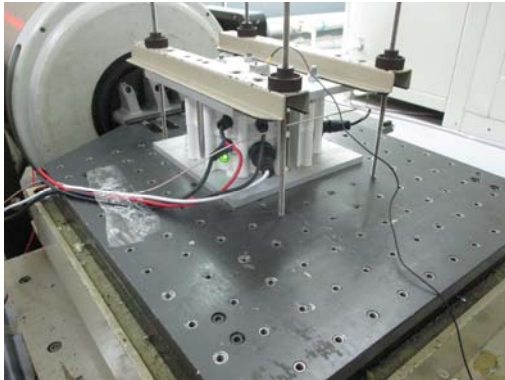
Vega AIS and Vega Beacon DC 12V



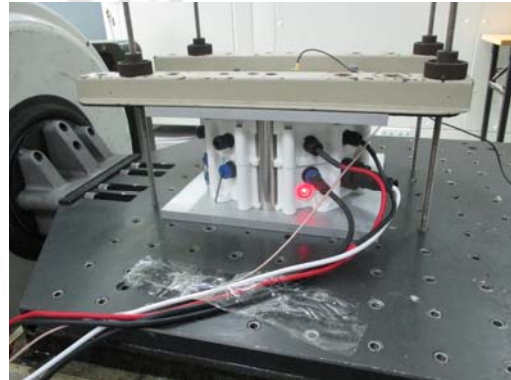
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Y-axis Vibration



The AIS unit's LED is green
Swept Vibration:



The AIS unit's LED A red 103 code



AIS WatchMate Receiver DC 12V



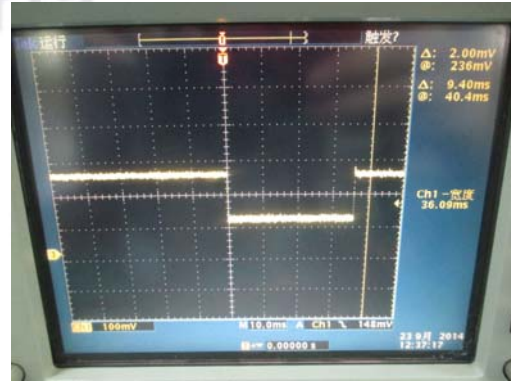
The MMSI number is "995121021"



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RF Power 5VDC



The transmission duration is 36ms±5ms

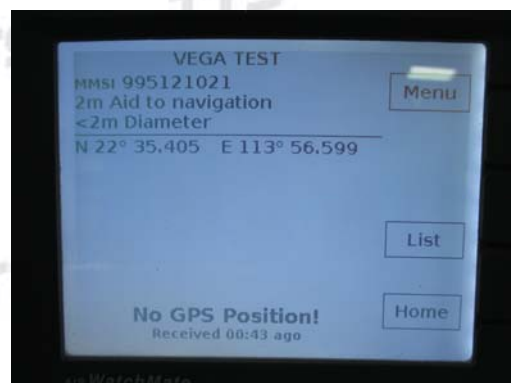


Vega AIS and Vega Beacon DC 12V

Fixed Frequency Vibration:



AIS WatchMate Receiver DC 12V



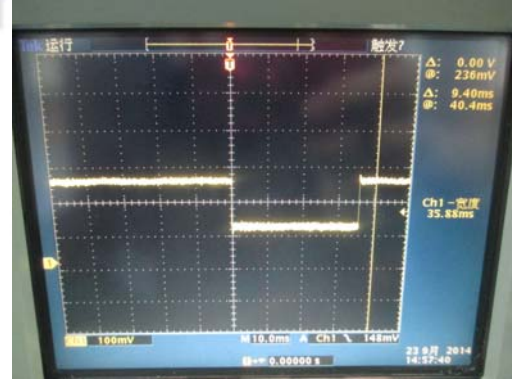
The MMSI number is "995121021"



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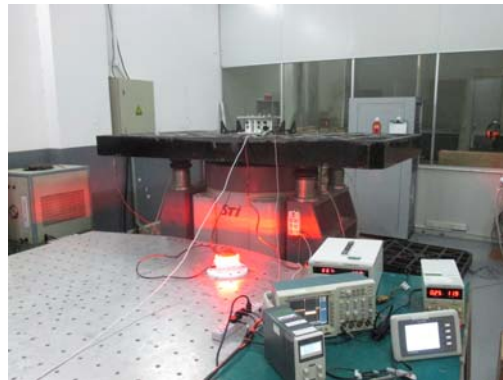
RF Power 5VDC



The transmission duration is 36ms±5ms



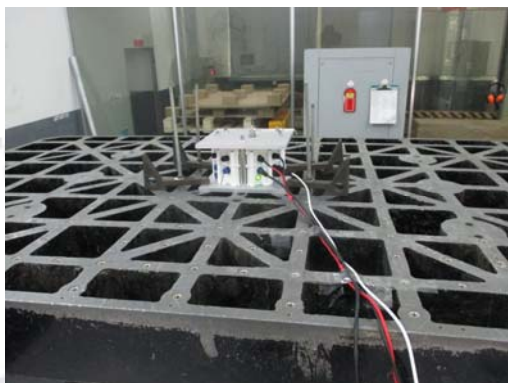
Vega AIS and Vega Beacon DC 12V



Z-axis Vibration



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The AIS unit's LED is green
Swept Vibration:



The AIS unit's LED A red 103 code



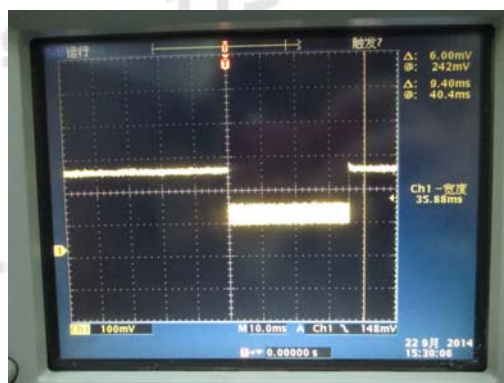
AIS WatchMate Receiver DC 12V



The MMSI number is "995121021"



RF Power 5VDC



The transmission duration is 36ms±5ms



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Vega AIS and Vega Beacon DC 12V
Fixed Frequency Vibration:



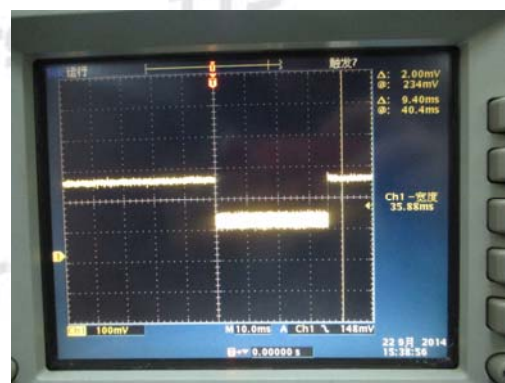
AIS WatchMate Receiver DC 12V



The MMSI number is "995121021"



RF Power 5VDC



The transmission duration is 36ms±5ms

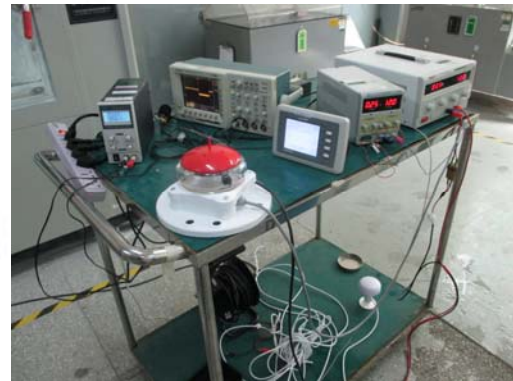


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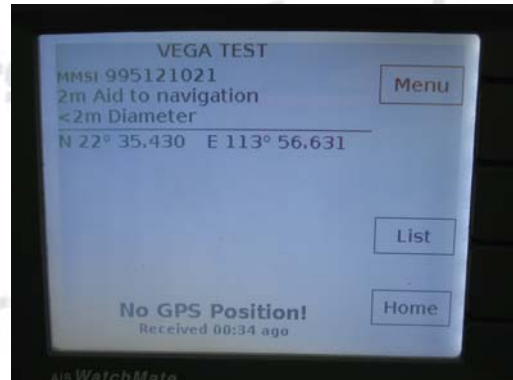


Vega AIS and Vega Beacon DC 12V

Rain and Spray:



AIS WatchMate Receiver DC 12V



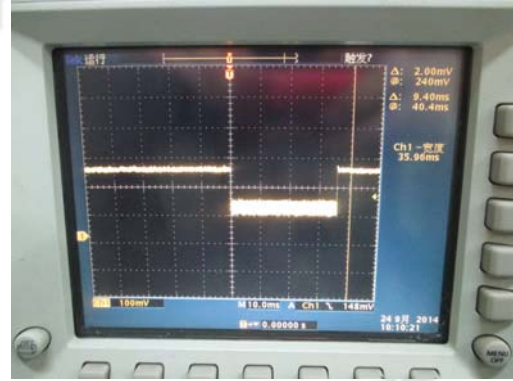
The MMSI number is "995121021"



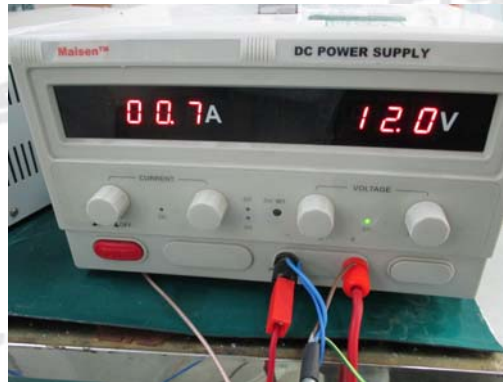
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RF Power 5VDC



The transmission duration is 36ms±5ms



Vega AIS and Vega Beacon DC 12V

Safety Precautions:



The test stick can not contact the hazardous parts of the sample



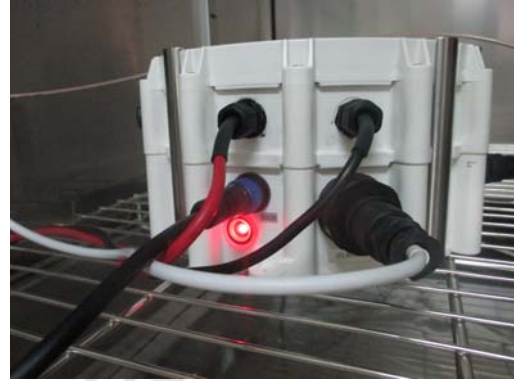
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Post-test:

Dry Hest (Storage Test):



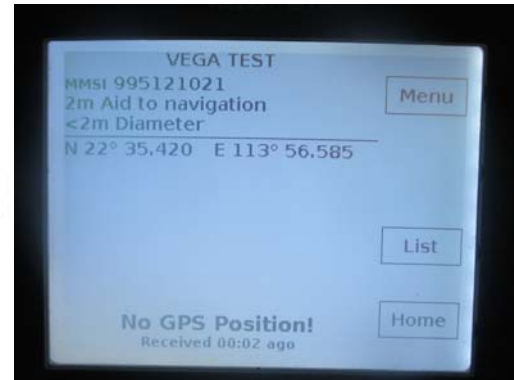
The AIS unit's LED is green



The AIS unit's LED A red 103 code



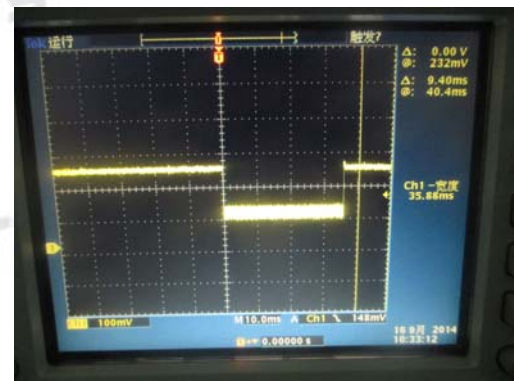
AIS WatchMate Receiver DC 12V



The MMSI number is "995121021"



RF Power 5VDC



The transmission duration is 36ms±5ms



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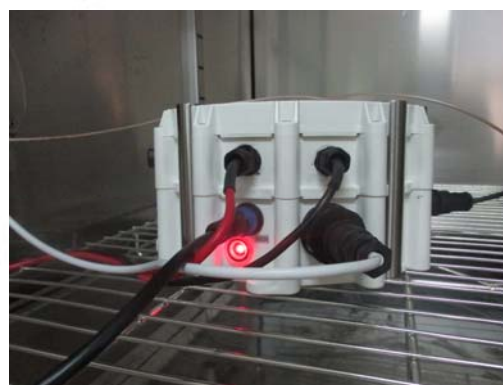


Vega AIS and Vega Beacon DC 12V

Dry Hest (Functional Test):



The AIS unit's LED is green



The AIS unit's LED A red 103 code



AIS WatchMate Receiver DC 12V



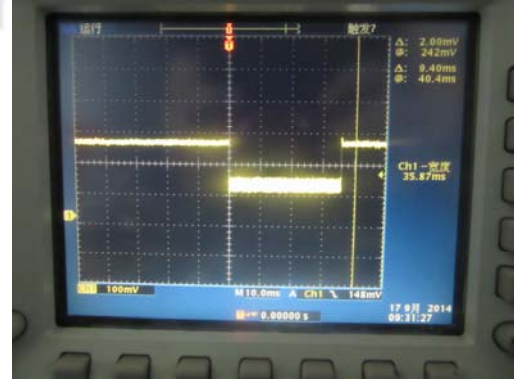
The MMSI number is "995121021"



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RF Power 5VDC



The transmission duration is 36ms±5ms



Vega AIS and Vega Beacon DC 12V

Damp Hest (Functional Test):



The AIS unit's LED is green



The AIS unit's LED A red 103 code



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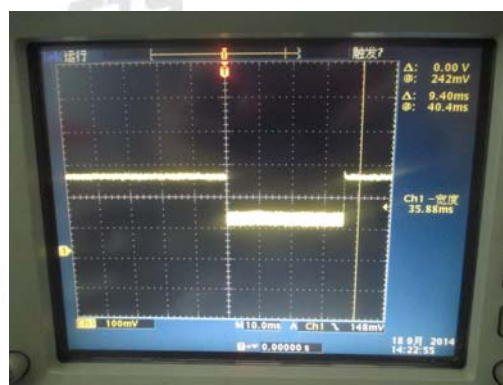
AIS WatchMate Receiver DC 12V



The MMSI number is "995121021"



RF Power 5VDC



The transmission duration is 36ms±5ms



Vega AIS and Vega Beacon DC 12V



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Low Temperature (Functional Test):



The AIS unit's LED is green



The AIS unit's LED A red 103 code



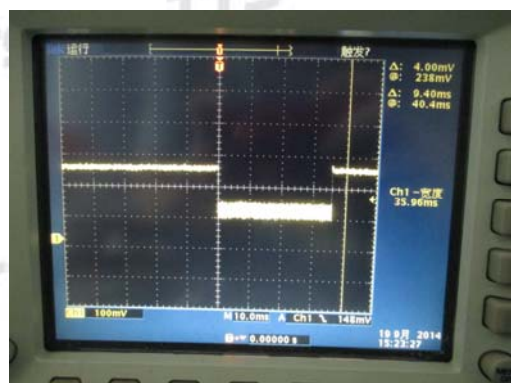
AIS WatchMate Receiver DC 12V



The MMSI number is "995121021"



RF Power 5VDC



The transmission duration is 36ms±5ms



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Vega AIS and Vega Beacon DC 12V

Vibration Test:



Rain Spray:



The AIS unit's LED is green



A red 103 or 101 code flashed out



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No water getting into the sample

- - - END OF THE REPORT - - -



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