

Random Vibration Test Report

| | | |
|---|---------------------------------|----------------------------|
| Test Item: Random Vibration Test | | File No: SDT-003914 |
| Product Name: IPPC1202-RE V-A1 | S/N : S02IPPC12--A10100P | Quantity: 1 |
| Date: 2015/7/13 | Temperature: 23.3°C | Humidity: 53.1%RH |
| Place: iBASE Lab | Inspector: Chris Chiou | Leader: Tony Tsai |
| DUT Weight: 3.8Kg | | |

Configuration:

| Item | Description | S/N |
|-------------------|--|--------------------|
| M/B | IB806-D25S V-1.0 | ZD01IB806---10030P |
| CPU | Intel® Atom™ Processor D2550 (1M Cache, 1.86 GHz) | C018ATOMG18615100P |
| PCH | Intel® CG82NM10 PCH | C01382NM100024000P |
| Heatsink | IPPC-1202-RE V-A1 | H051IPPC1202RE00AP |
| DIMM | Transcend / SO-DIMM DDR3L 2G/1600 [TS7W9SDSQ-I] | C0373900200081520P |
| SSD | Intel / 2.5" SATA3 180G 530 SERIES 7mm [SSDSC2BW180A401] | A002SSDSA180G1000P |
| Board-I | IP930 V-B1 | ZD05IP930---0B110P |
| Board-II | ID910 V-B1 | ZD06ID910---0B110P |
| LCD Panel | IVO / 12.1" TFT-LCD [M121GNX2 R1] | A003LCDM121GNX000P |
| Controller | ELO / 12.1" 5-WIRE RESISTIVE ZERO-BEZEL [E803003] | A003LCDPANEL07600P |
| Case | PENMOUNT / [6202B-CW5] | A008CTRL6202B0000P |
| PSU | IPPC-1202-RE V-A1 | Y02IPPC12020A1100P |

Test Result:

| | Appearance Check | Functional Check | Conclusion Result |
|-----------|------------------|------------------|-------------------|
| Operating | Pass | Pass | Pass |

Test Purpose:

To verify unpacked project could sustain in specified vibration pattern what is for specified application, car application ... etc. It contains operating condition.

Test Procedure:

1. Assembling terminal with maximum configuration.
2. Put DUT in normal axis on random vibrator plate and secure well with fixture.
3. Choice vibration pattern depends on characteristic of project.
4. Using Burn-In test with specified test item to stress DUT to reasonable loading.
5. Start vibrator to test the DUT in one hour then record the pattern.
6. Check the appearance/mechanical and functional of DUT.

Test Equipment:

| Item | Description | Remark |
|--------------------|-------------------------------|--------|
| Vibration Tester | Visource VS-200V | |
| Controller | Visource DVC-4- SINE & RANDOM | |
| Accelerator Sensor | Visource PCB 353B32 | |

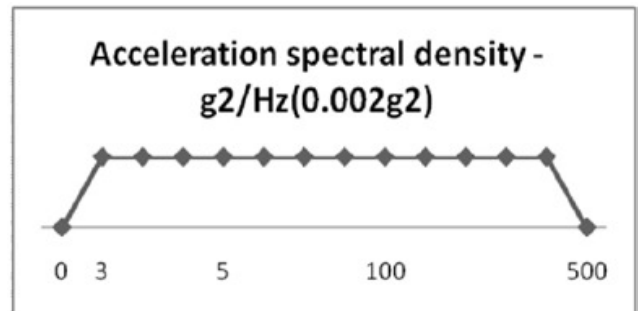


Test Devices:

| NO | Device | Description | Remark |
|----|-----------------|---------------------------------|--------|
| 1 | USB Keyboard | TYPHOON / WK-713 | |
| 2 | USB Mouse | Microsoft / MSK-1113(B) | |
| 3 | Monitor | BenQ / FP202W | |
| 4 | USB Flash Drive | Transcend / JetFlash 500; 4G *1 | |

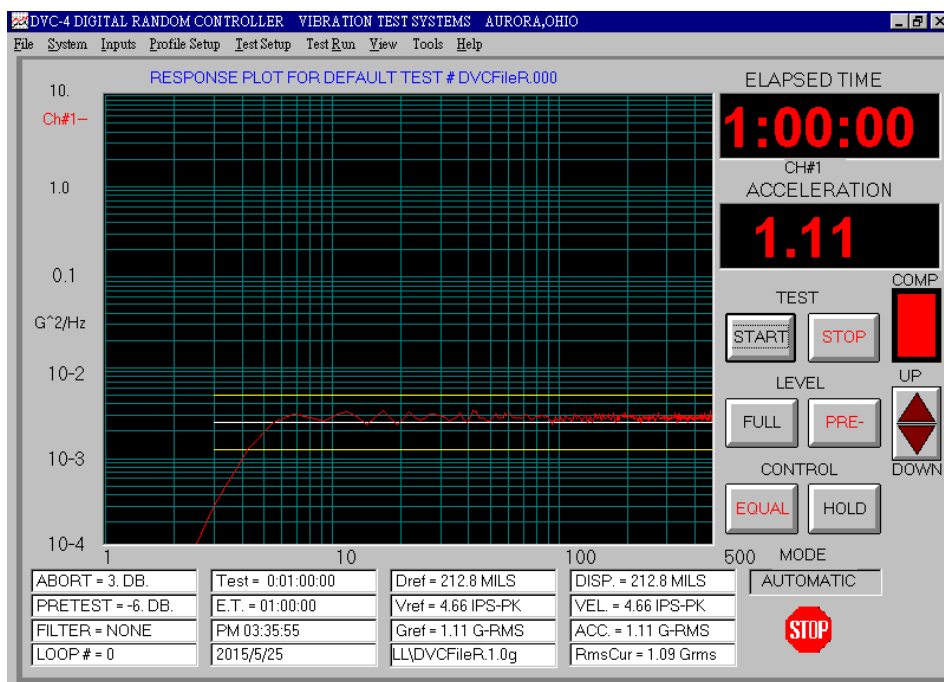
Criteria:

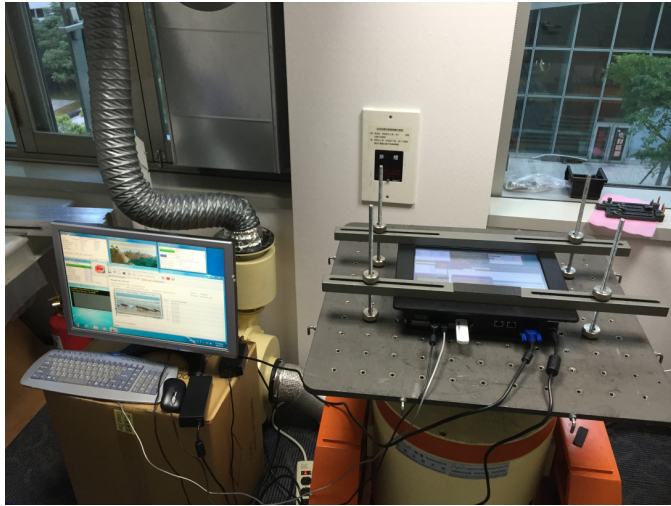
| | |
|------------|------------|
| | Operating |
| Accelerate | 1 G rms |
| Frequency | 3 ~ 500 Hz |
| Test Axis | Z axis |
| Test Time | 60 mins |



Operating

Operating:



Testing Photos:**Operating****BurnInTest 7.1 Result**

Results for TEST-PC

Test configuration file: LastUsed.bitcfg Status: **PASS**
Start time: Wed Jul 08 18:32:35 2015 Stop time: Wed Jul 08 19:32:37 2015 Duration: 00:1h 00m 02s

| Test Name | Cycle | Operations | Errors | Last Error Description |
|----------------|-------|----------------|--------|------------------------|
| 2D Graphics | 1038 | 62332 | 0 | No errors |
| 3D Graphics | 0 | 19587 | 0 | No errors |
| CPU | 176 | 725 Billion | 0 | No errors |
| Disk (C:) | 30 | 57.671 Billion | 0 | No errors |
| Disk (D:) | 22 | 39.779 Billion | 0 | No errors |
| Disk (E:) | 132 | 11.499 Billion | 0 | No errors |
| Memory (RAM) | 35 | 72.737 Billion | 0 | No errors |
| Network 1 | 59 | 2.374 Million | 0 | No errors |
| Sound | 17 | 57.749 Million | 0 | No errors |
| Video Playback | 12 | 385 | 0 | No errors |

View errors by categories

Ready