CERTIFICATE of EMC Compliance

# CERTIFICATE
# of EMC Compliance

| | |
|---|---|
| **Report No:** | **EMC-FCC-1314** |
| **Type of equipment:** | **NETWORK VIDEO DECODER** |
| **Model Name:** | **SPD-400N** |
| **Applicant:** | **SAMSUNG TECHWIN CO., LTD.** |
| **Address:** | **#42 Seongju-Dong, Changwon-Shi, Kyungsangnam-Do, Korea** |
| **Manufacturer#1:** | **SAMSUNG TECHWIN CO., LTD. #42 Seongju-Dong, Changwon-Shi, Kyungsangnam-Do, Korea** |
| **Manufacturer#2:** | **TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC CO., LTD No.11 Weiliu Road. Micro-Electronic Industrial Park Jingang Road Tianjin 300385, China** |
| **Test standards :** | **FCC part 15 subpart B, Class A** |
| **Classification :** | **Verification** |

**The above equipment was tested by EMC compliance Testing Laboratory for with the requirements of FCC Rules and Regulations. The results of testing in this report apply to the product / system which was tested only.**
**These results are deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference-Causing Equipment Regulations.**

Yeom, Han-Seok / Manager

**Laboratory**

**EMC compliance Ltd.**
**480-5 Sin-dong, Yeongtong-gu,**
**Suwon-city, Gyeonggi-do, 443-390, Korea**

**Tel : 82 31 336 9919**
**Fax : 82 31 336 4767**

# EMI TEST REPORT

| | |
|---|---|
| **Test report No.:** | **EMC-FCC-1314** |
| **Type of Equipment:** | **NETWORK VIDEO DECODER** |
| **Model Name:** | **SPD-400N** |
| **Applicant:** | **SAMSUNG TECHWIN CO., LTD.<br>#42 Seongju-Dong, Changwon-Shi,<br>Kyungsangnam-Do, Korea** |
| **Manufacturer#1:** | **SAMSUNG TECHWIN CO., LTD.<br>#42 Seongju-Dong, Changwon-Shi,<br>Kyungsangnam-Do, Korea** |
| **Manufacturer#2:** | **TIANJIN SAMSUNG TECHWIN<br>OPTO-ELECTRONIC CO., LTD<br>No.11 Weiliu Road. Micro-Electronic Industrial<br>Park Jingang Road Tianjin 300385, China** |
| **Test standards:** | **FCC part 15 subpart B, Class A** |
| **Test Procedure and Items** | |
| **- AC Power Line Conducted Emissions Measurement: ANSI C63.4-2009** | |
| **- Radiated Emissions Measurement : ANSI C63.4-2009** | |
| **Testing Laboratory:** | **EMC Compliance Ltd.** |
| **Test result:** | **Complied** |

The above equipment was tested by EMC compliance Testing Laboratory for compliance with the requirements of FCC Rules and Regulations. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.
These results are deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference-Causing Equipment Regulations.

Date of receipt: 2011. 06. 08

Date of testing: 2011. 06. 15 ~ 06. 15

Issued date: 2011. 06. 23

**Tested by:** KIM, IN-HO

**Approved by:** YEOM, HAN-SEOK

# Contents

# 1. Applicant information

| | |
|---|---|
| **Applicant:** | SAMSUNG TECHWIN CO., LTD. |
| **Address:** | #42 Seongju-Dong, Changwon-Shi, |
| | Kyungsangnam-Do, Korea |
| **Telephone:** | +82-70-7147-8361 |
| **Fax:** | +82-31-277-2784 |
| **E-mail:** | js2002.kang@samsung.com |
| **Contact name:** | **Kang Jei Soon** |

| | |
|---|---|
| **Manufacturer#1:** | SAMSUNG TECHWIN CO., LTD. |
| **Address:** | #42 Seongju-Dong, Changwon-Shi, |
| | Kyungsangnam-Do, Korea |
| **Telephone:** | +82-70-7147-8361 |
| **Fax:** | +82-31-277-2784 |
| **E-mail:** | js2002.kang@samsung.com |
| **Contact name:** | **Kang Jei Soon** |

| | |
|---|---|
| **Manufacturer#2:** | TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC CO., LTD |
| **Address:** | No.11 Weiliu Road. Micro-Electronic Industrial Park |
| | Jingang Road Tianjin 300385, China |

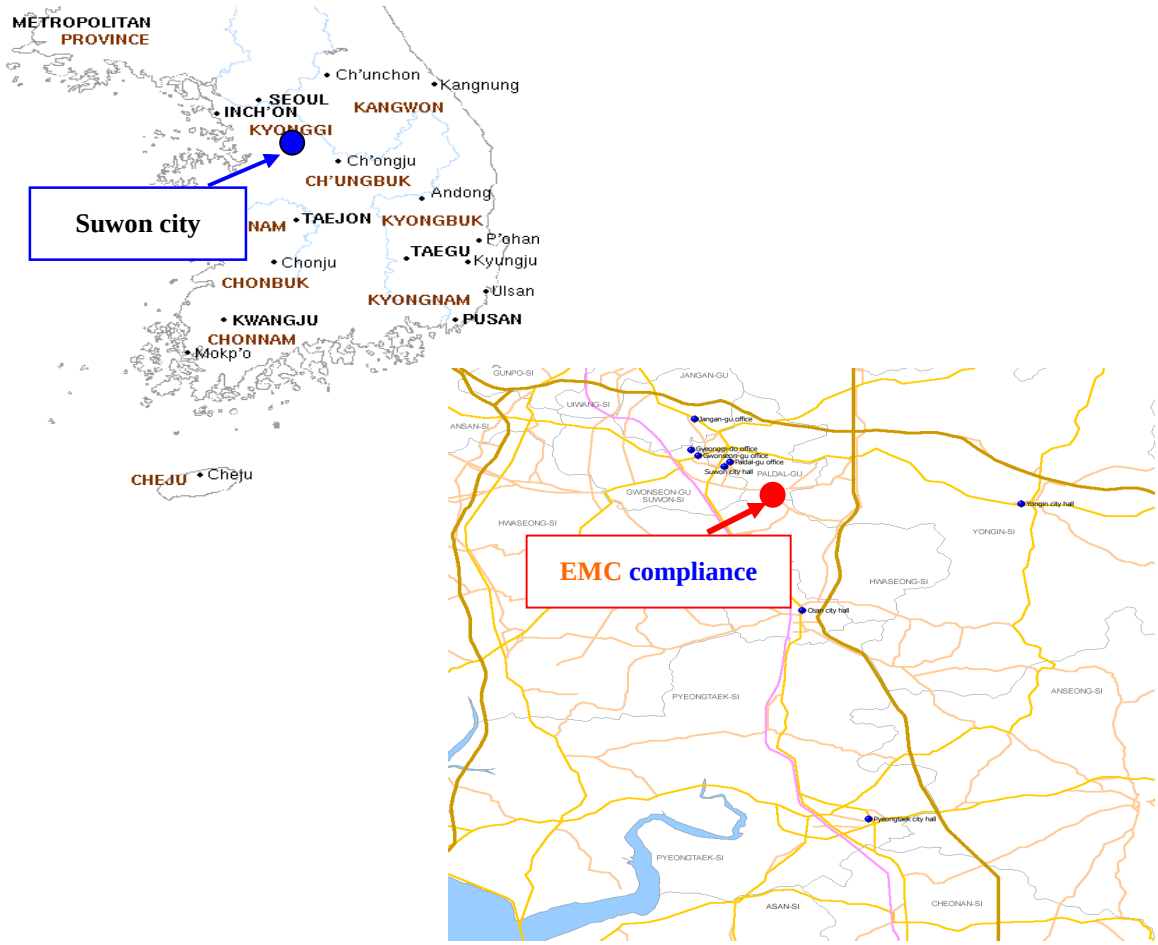
# 2. Laboratory information

**Address**

**EMC compliance Ltd.**
480-5 Sin-dong, Yeongtong-gu, Suwon-city, Gyeonggi-do, 443-390, Korea
Telephone Number: 82 31 336 9919
Facsimile Number: 82 31 336 4767

FCC CAB.: KR0040
VCCI Registration No. : R-3327, G-198, C-3706, T-1849
Industry Canada Registration No. : 8035A
KOLAS NO.: 231

SITE MAP



# 3. Test system configuration

## 3.1 Operation environment

| | | Temperature | Humidity | Pressure |
|---|---|---|---|---|
| Chamber(10 m) | : | 26 °C | 40 % R.H. | - |
| Shielded room(CE) | : | 25 °C | 38 % R.H. | - |

Test site

These testing items were performed following locations;

Shielded Room : Conducted Emission

Chamber (10 m) : Radiated Emission (Test distance: 10 m, 3 m)

## 3.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are test receiver, cable loss, antenna factor calibration, Antenna directivity, antenna factor variation with height, antenna phase center variation, antenna frequency interpolation, measurement distance variation, site imperfection, mismatch, and system repeatability. Based on CISPR 16-4-2, the measurement uncertainty level with a 95 % confidence level was applied.

Conducted emission measurement :( $k$ = 2, 95 %)

9 ㎑ ~ 150 ㎑: ± 3.77 [㏈]

150 ㎑ ~ 30 ㎒: ± 3.35 [㏈]

Radiated Emission measurement :( $k$ = 2, 95 %)

30 ㎒ ~ 300 ㎒: 3 m: ± 4.3 [㏈]

10 m: ± 4.3 [㏈]

300 ㎒ ~ 1 000 ㎒: 3 m: ± 4.4 [㏈]

10 m: ± 4.3 [㏈]

# 4. Description of E.U.T.

## 4.1 General information

| | SPD-400N | SPD-400P |
|---|---|---|
| Operational | | |
| Video Out | 1) HDMI / VGA : Max 1920x1080p (HDMI, VGA 동일 해상도 출력)<br>1920x1080p, 1680x1050, 1600x900, 1440x900, 1280x1024, 1280x720p, 1024 x 768 | |
| | 2) CVBS : 1.0 Vp-p / 75Ω composite<br>704x480 | 2) CVBS : 1.0 Vp-p / 75Ω composite<br>704x576 |
| | 3) HDMI/VGA, CVBS selectable | |
| Event Trigger | Alarm Input, IP Camera event Input | |
| Alarm I/O | Input 1ea / Output 2ea (Relay) | |
| Remote Control Interface | - | |
| Network | | |
| Ethernet | RJ-45 (10/100/1000 BASE-T) | |
| Video Compression Format | H.264, MPEG-4, MJPEG | |
| Resolution | 1) H.264<br>- Single View :1920x1080(2M pixel) ~ 320x240<br>- Quad View : 720p ~ 320x240 (800x600 지원)<br>2) MPEG-4 :<br>- Single View : 4CIF ~ 320x240<br>- Quad View : 4CIF ~ 320x240<br>3) MJPEG :<br>- Single View : 720p ~ 320x240 (800x600 지원)<br>- Quad View : 720p ~ 320x240 (800x600 지원)<br><br>1920x1080p, 1280X1024, 1280X720p, 704x576, 704x480, 640x480, 352x288, 352x240, 320x240 | |
| Max. Framerate | Max 30fps at single view,<br>Max 120fps at 4x(640x480), Max 100fps at 4X4CIF, Max 60fps at 4x720p (Audio Disable 조건) | |
| Display | Single View, Quad View | |
| Audio I/O | Line out 1ea | |
| Audio Compression Format | G.711 | |
| IP | IPv4, IPv6 | |
| Protocol | TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), NTP, HTTP, DHCP, ICMP, IGMP, ARP, SSL, DNS | |
| Security | HTTPS(SSL) Login Authentication<br>User access Log | |
| Camera Registration | 32 camera, 8 layout, 10 sequence | |
| USB | - | |
| ONVIF Conformance | No | |

| | |
|---|---|
| Support Device | Samsung : SNB-1000,SND-1010,SNV-3120,SNP-3430H,SNP-3120,3120V,3120VH,SNB-5000, SNB-7000(2M 이하 profile만 지원),SND-5080/F,SNV-5080,SNV-5010,SPE-100,400,SPE-1600R/400B |
| | Axis : P3301, P3343, P3344, P1311, P1343, P1344, P1346<br>PTZ215, Q6032, Q7401, Q7404<br>(F/W ver : 5.x) |
| | 1) Stream(Live Video/Audio) : SVNP1.2 , (RTP/RTSP : AXIS)<br>2) Control/Network alarm : CGI |
| Web Viewer | Supported OS : Windows XP, Vista, 7<br>Supported Browser : MS IE 7.x, 8.x, FireFox 2.x, 3.x, Google Chrome, Safari |
| Central Management Software | - |
| **Environmental** | |
| Operating Temperature / Humidity | +0°C ~ +40°C (+32°F ~ +104°F) / 0% ~ 90% RH |
| Ingress Protection | - |
| **Electrical** | |
| Input Voltage / Current | 12V DC |
| Power Consumption | TBD |
| **Mechanical** | |
| Color / Material | Silver / Metal |
| Dimension (WxHxD) | W178 x H34 x D128mm (7.00" x 1.34" x 5.04") |
| Weight | TBD |

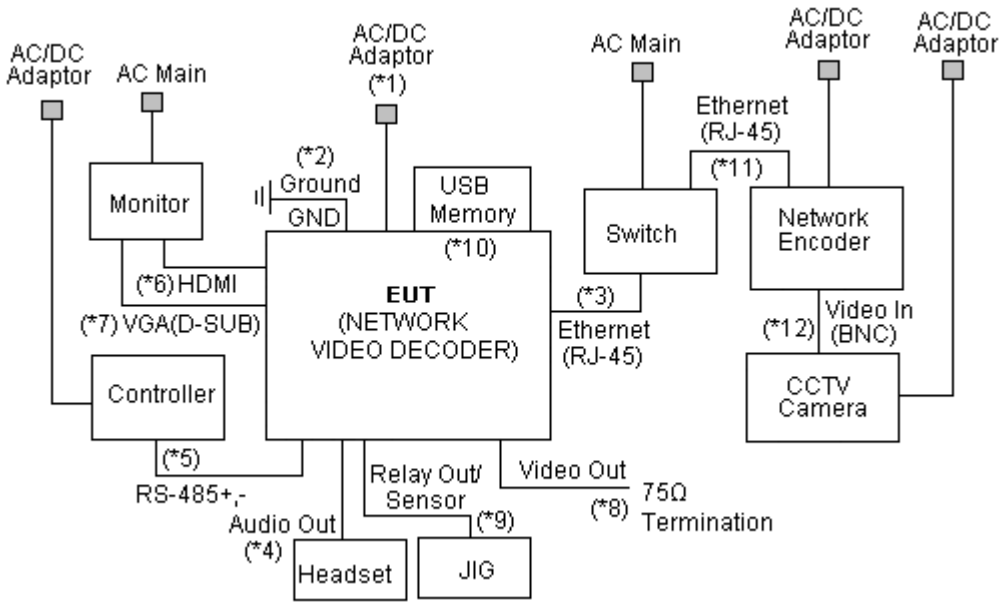
## 4.2 Product description

| | |
|---|---|
| Type of product | NETWORK VIDEO DECODER |
| Model name (Basic) | SPD-400N |
| Model name (Variant) | N/A |
| Difference | - |
| Serial no | Engineering Sample |
| Testing voltage | 120 Ⅴ, 60 ㎐ |
| Product rating | AC 100 - 240 Ⅴ, 50 / 60 ㎐, 1.5 Ⓐ |
| Internal clock ferquence | 729 ㎒ |
| Note | * AC/DC adaptor was provided by the manufacturer. |

## 4.3 Auxiliary equipments

| Type | Model / Part # | Serial number | Manufacturer |
|---|---|---|---|
| Network Encoder | SPE-100 | - | Samsung Techwin |
| CCTV Camera | CNB-D1705P | - | CNB |
| Switch | 3CGSU05A | - | 3COM |
| Controller | SCC-1000 | C28667WZ107714Y | SAMSUNG |
| JIG | - | - | - |
| Monitor | PU24WS | NE21HMCZ402094D | LG |
| Headset | ES-304 | - | inkel |
| USB Memory(8GB) | - | - | Transcend |

## 4.4 Test configuration




| Note | Start | | End | | Cable | | |
|---|---|---|---|---|---|---|---|
| * | Name | I/O port | Name | I/O port | Length (m) | Spec. | Cable |
| 1 | **EUT** (NETWORK VIDEO DECODER) | Power | AC/DC Adaptor | Power | 1.5 | Non-Shield | - |
| 2 | | GND | Ground | GND | 1.3 | Non-Shield | - |
| 3 | | Ethernet(RJ-45) | Switch | RJ-45 | 3.0 | Non-Shield | - |
| 4 | | Audio Out | Headset | Audio In | 2.0 | Non-Shield | - |
| 5 | | RS-485+,- | Controller | RS-485+,- | 3.0 | Non-Shield | - |
| 6 | | HDMI | Monitor | HDMI | 1.6 | Shield | - |
| 7 | | VGA(D-SUB) | Monitor | VGA(D-SUB) | 1.8 | Shield | Out-door |
| 8 | | Video Out | 75Ω Termination | Video In | 1.0 | Shield | Out-door |
| 9 | | Relay Out/Sensor | JIG | Relay In/Sensor | 3.0 | Non-Shield | - |
| 10 | | USB | USB Memory | USB | Direct | - | Out-door |
| 11 | Network Encoder | Ethernet(RJ-45) | Switch | RJ-45 | 3.0 | Non-Shield | |
| 12 | | Video In(BNC) | CCTV Camera | Video Out(BNC) | 1.0 | Shield | |

## 4.5 Operating conditions

The EUT was configured as normal intended use.

This test was done at worst case.

| Test mode | Normal operating |
|---|---|
| 1 | Monitoring mode. |
| | RS-485 operating mode. |
| | Relay/Sensor operating mode. |

# 5. Summary of test results

**In the above configuration tested, The EUT complied with the requirement of the specification**

## 5.1 Modification to the E.U.T.

None

## 5.2 Summary of EMI emission test results

FCC Part 15 Subpart B (Class A)

ANSI C63.4 – 2009

| Application | Test method | Test result |
|---|---|---|
| Conducted emission<br>- AC main port | ANSI C63.4 – 2009 | Complied |
| Radiated emission | ANSI C63.4 – 2009 | Complied |

# 6. Test results

## 6.1 Conducted Emission

| Test specification | FCC Part 15, Section 15.107(b), Class A | | |
|---|---|---|---|
| Test mode | Operating mode. | | |
| Date | 2011. 06. 15 | | |
| Testing voltage | 120 V, 60 Hz | | |
| Test facility | Shielded room (CE#1) | | |
| Temperature(°C) | 25 °C | Humidity (% R.H.) | 38 % R.H. |
| Remarks | Complied<br>Minimum limit margin is 30.88 dB at 0.246 MHz. (Average) | | |

### 6.1.1 Limits of conducted emission measurement

| Frequency [MHz] | Class A (dB(μV)) | | Class B (dB(μV)) | |
|---|---|---|---|---|
| | Quasi-peak | Average | Quasi-peak | Average |
| 0.15 ~ 0.5 | 79 | 66 | 66 ~ 56 * | 56 ~ 46* |
| 0.5 ~ 5 | 73 | 60 | 56 | 46 |
| 5 ~ 30 | 73 | 60 | 60 | 50 |

*The limit decreases linearly with the logarithm of frequency.

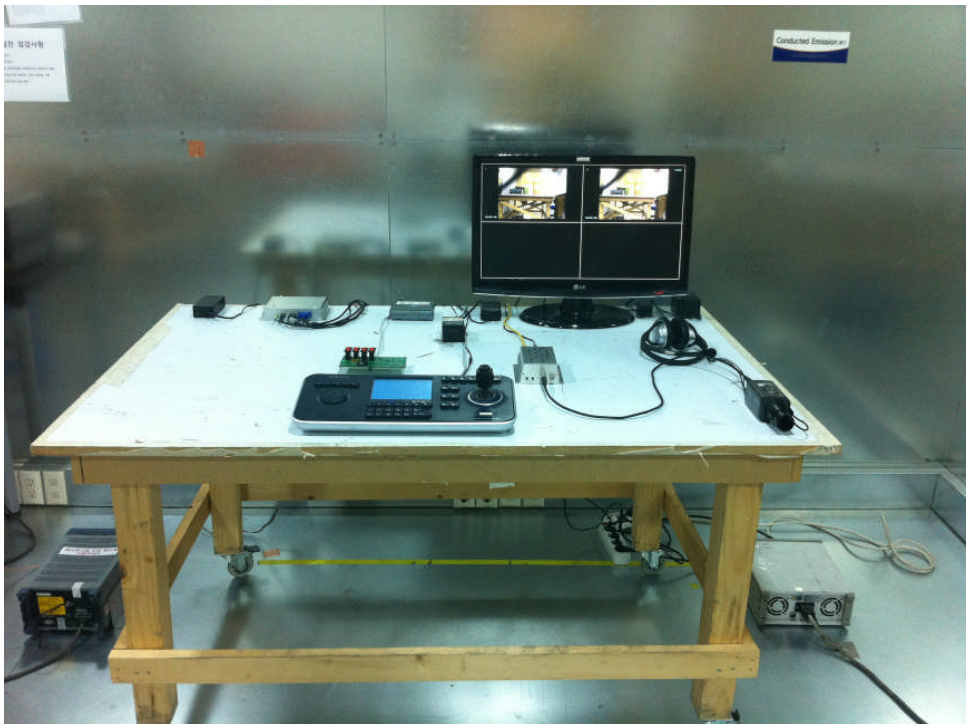
### 6.1.2 Measurement procedure

The measurements were performed in a shielded room. EUT was setup as shown in photograph and placed on a non-metallic table height of 0.8 m above the reference ground plane. The rear of table was located 0.4 m to the vertical conducted plane. EUT was power through the LISN, which was bonded to the ground plane. The LISN power was filtered. Each EUT power lead, except ground (safety) lead was individually connected through a LISN to input power source. EUT signal cables that hung closer than 0.4 m to the Horizontal metal ground 0.3 m ~ 0.4 m long. The power cord was bundles in the center. All peripheral equipment was powered from a sub LISN. The LISN and ISN were positioned 0.8 m from the EUT. Peak and Average detection were used in preliminary testing and Quasi-peak and Average detections were used at final measurement.

### 6.1.3 Used equipments

| Equipment | Model | Serial No. | Makers | Next Cal. Date | Used |
|---|---|---|---|---|---|
| Test Receiver | ESHS10 | 843276/003 | R&S | 12.06.14 | ☒ |
| LISN | ESH3-Z5 | 100267 | R&S | 11.07.05 | ☒ |
| LISN | L2-16A | 0000J10705 | PMM | - | ☒ |

6.1.4 Photographs of test setup



6.1.5 Conducted emission measurement result

| Frequency | Correction Factor | | Line | Quasi-peak | | | Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Limit | Reading | Result | Limit | Reading | Result |
| [㎒] | LISN | Cable | | [dB(㎶)] | [dB(㎶)] | [dB(㎶)] | [dB(㎶)] | [dB(㎶)] | [dB(㎶)] |
| 0.183 | 0.07 | 0.01 | N | 79.00 | 43.82 | 43.90 | 66.00 | 31.45 | 31.53 |
| 0.246 | 0.07 | 0.01 | N | | 40.90 | 40.98 | | 35.04 | 35.12 |
| 0.306 | 0.07 | 0.01 | N | | 36.50 | 36.58 | | 28.23 | 28.31 |
| 0.366 | 0.07 | 0.01 | N | | 32.33 | 32.41 | | 27.30 | 27.38 |
| 0.369 | 0.08 | 0.01 | H | | 29.82 | 29.91 | | 25.04 | 25.13 |
| 13.970 | 0.36 | 0.18 | N | 73.00 | 18.96 | 19.50 | 60.00 | 13.38 | 13.92 |
| 16.770 | 0.55 | 0.21 | H | | 17.95 | 18.71 | | 10.39 | 11.15 |
| 17.710 | 0.52 | 0.21 | N | | 17.35 | 18.08 | | 11.08 | 11.81 |
| 21.790 | 0.93 | 0.24 | H | | 22.43 | 23.60 | | 16.49 | 17.66 |
| 21.920 | 0.76 | 0.24 | N | | 23.19 | 24.19 | | 16.31 | 17.31 |
| 26.610 | 1.29 | 0.27 | H | | 23.29 | 24.85 | | 17.90 | 19.46 |

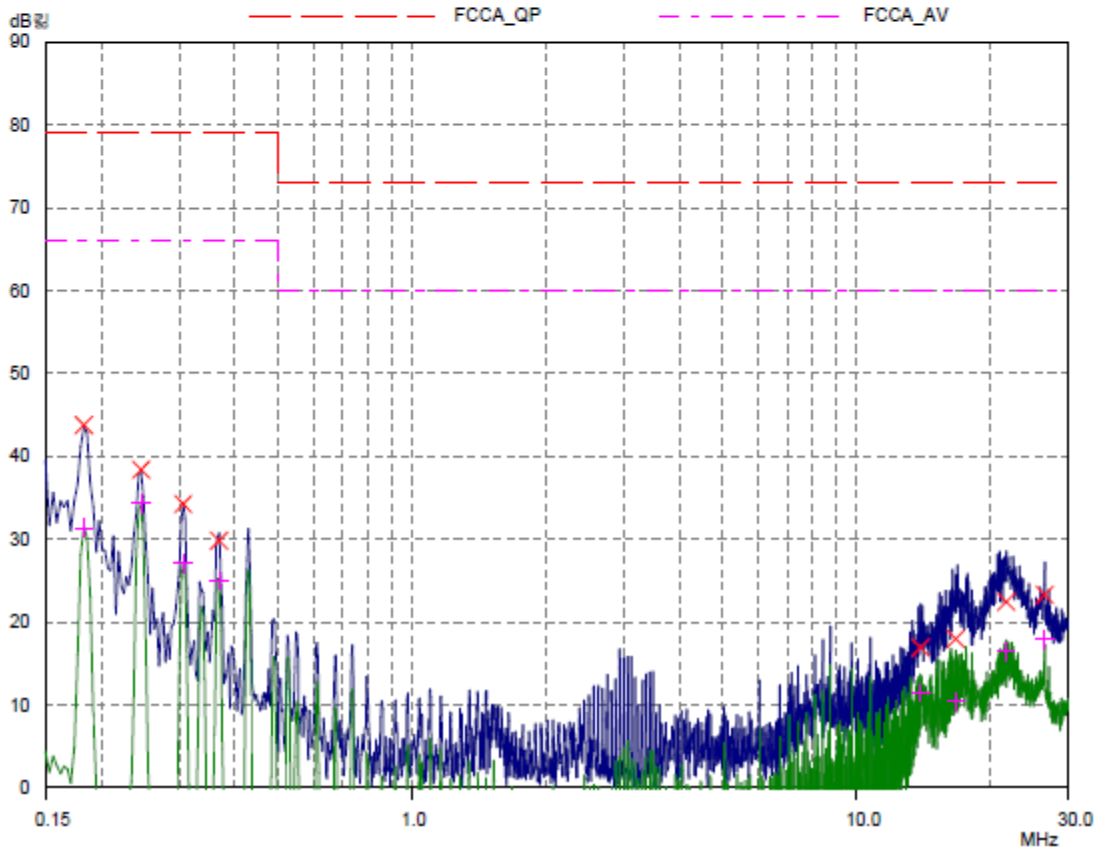
EUT: SPD-400N
Manuf:
Op Cond: H
Operator:
Test Spec: FCC Class A Conducted Emission
Comment:

Result File: h_fcc.dat : New Measurement

Scan Settings (2 Ranges)

| Frequencies | | | Receiver Settings | | | | | |
|---|---|---|---|---|---|---|---|---|
| Start | Stop | Step | IF BW | Detector | M-Time | Atten | Preamp | OpRge |
| 150kHz | 3MHz | 3kHz | 10kHz | PK+AV | 10msec | Auto | OFF | 60dB |
| 3MHz | 30MHz | 10kHz | 10kHz | PK+AV | 5msec | Auto | OFF | 60dB |

Final Measurement: Detectors: X QP / + AV
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB



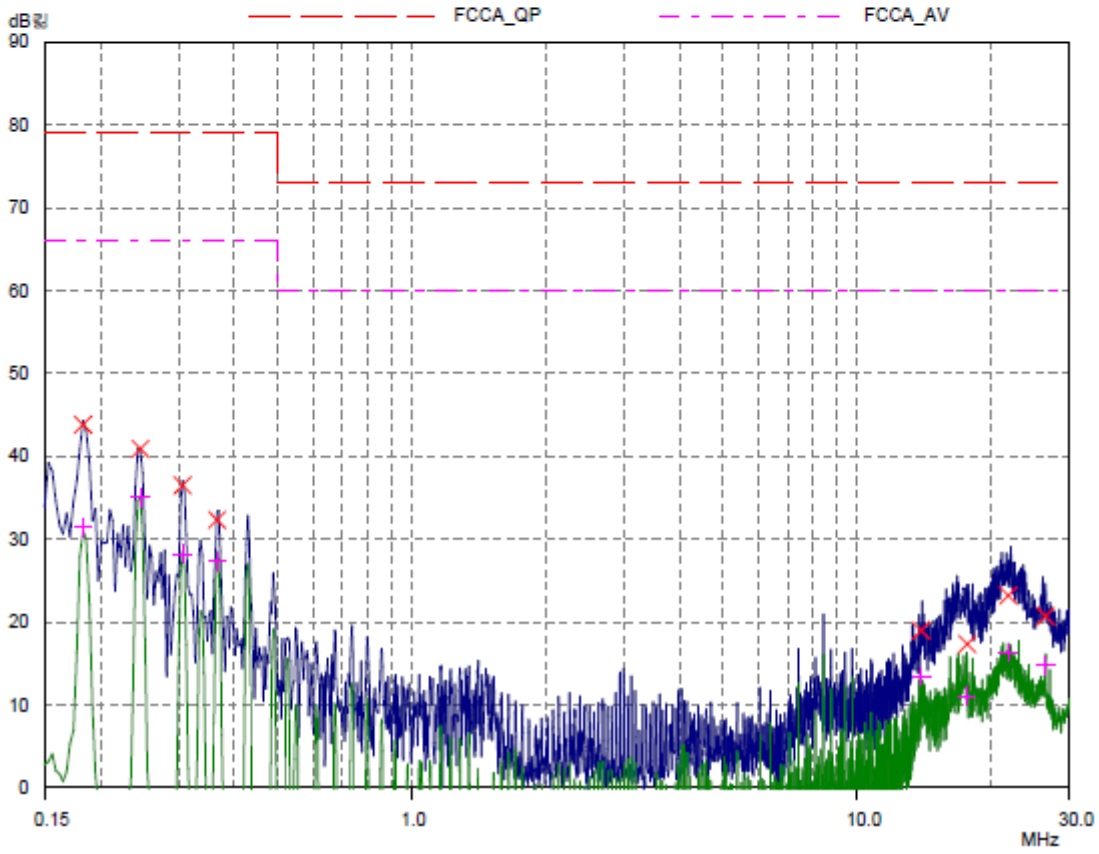
EUT: SPD-400N
Manuf:
Op Cond: N
Operator:
Test Spec: FCC Class A Conducted Emission
Comment:

Result File: n_fcc.dat : New Measurement

Scan Settings (2 Ranges)

| Frequencies | | | Receiver Settings | | | | | |
|---|---|---|---|---|---|---|---|---|
| Start | Stop | Step | IF BW | Detector | M-Time | Atten | Preamp | OpRge |
| 150kHz | 3MHz | 3kHz | 10kHz | PK+AV | 10msec | Auto | OFF | 60dB |
| 3MHz | 30MHz | 10kHz | 10kHz | PK+AV | 5msec | Auto | OFF | 60dB |

Final Measurement: Detectors: X QP / + AV
Meas Time: 1sec
Peaks: 8
Acc Margin: 25 dB



## 6.2 Radiated Emission

| | | | |
|---|---|---|---|
| Test specification | FCC Part 15, Section 15.109(g), Class A | | |
| Test mode | Operating mode. | | |
| Date | 2011. 06. 15 | | |
| Testing voltage | 120 V, 60 Hz | | |
| Test facility | 10 m Chamber (Test distance: 10 m, 3 m) | | |
| Temperature (°C) | 26 °C | Humidity (% R.H.) | 40 % R.H. |
| Remarks | Complied<br>Minimum limit margin is 7.4 dB at 875.480 MHz. (30 MHz ~ 1 GHz)<br>Minimum limit margin is 20.7 dB at 1707.154 MHz. (1 GHz ~ 5 GHz_Average) | | |

### 6.2.1 Limits of radiated emission measurement

| Frequency [MHz] | Class A (dB(μV/m)) @ 10 m | Class B (dB(μV/m)) @ 3 m |
|---|---|---|
| 30-88 | 39 | 40 |
| 88-216 | 43.5 | 43.5 |
| 216-960 | 46.4 | 46 |
| Above 960 | 49.5 | 54 |

*** Note- Alternative standard: CISPR, Pub. 22 ***

### 6.2.2 Measurement procedure

The test was done at a 10 m, 3 m distance at 10 m chamber with a quasi-peak detector.
EUT was placed on a non-metallic table height of 0.8 m above the reference ground plane.
Cables were folded back and forth forming a bundle 0.3 m to 0.4 m long and were hanged at a 0.4 m height to the ground plane. Cables connected to EUT were fixed to cause maximum emission.
Test was made with the antenna positioned in both the horizontal and vertical planes of polarization.
The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

### 6.2.3 Used equipments

| Equipment | Model no. | Serial no. | Makers | Next cal. date | Used |
|---|---|---|---|---|---|
| Test Receiver | ESCI | 100710 | R&S | 11.12.01 | ☒ |
| Bi-Log Antenna | VULB 9160 | 3228 | SCHWARZBECK | 12.09.13 | ☒ |
| Amplifier | 310N | 293004 | SONOMA INSTRUMENT | 11.12.01 | ☒ |
| 3 dB Attenuator | 8491A | 27444 | HP | 11.11.30 | ☒ |
| Antenna Mast | MA4000-EP | 303 | Innco Systems | - | ☒ |
| Turn Table | DT2000S-1t | 079 | Innco Systems | - | ☒ |
| Amplifier | 8449B | 3008A01802 | AGILENT | 12.05.11 | ☒ |
| Horn ANT | 3115 | 00086706 | ETS | 11.12.22 | ☒ |
| Spectrum Analyzer | FSP7 | 100289 | R&S | 11.12.17 | ☒ |

### 6.2.4 Sample calculation

The field strength is calculated adding the antenna Factor, cable loss and, Antenna pad adding, subtracting the amplifier gain from the measured reading.

The sample calculation is as follow:

Result = M.R + C.F(A.F + C.L +3 dB Att – A.G)

M.R = Meter Reading

C.F = Correction Factor

A.F = Antenna Factor

C.L = Cable Loss

A.G= Amplifier Gain

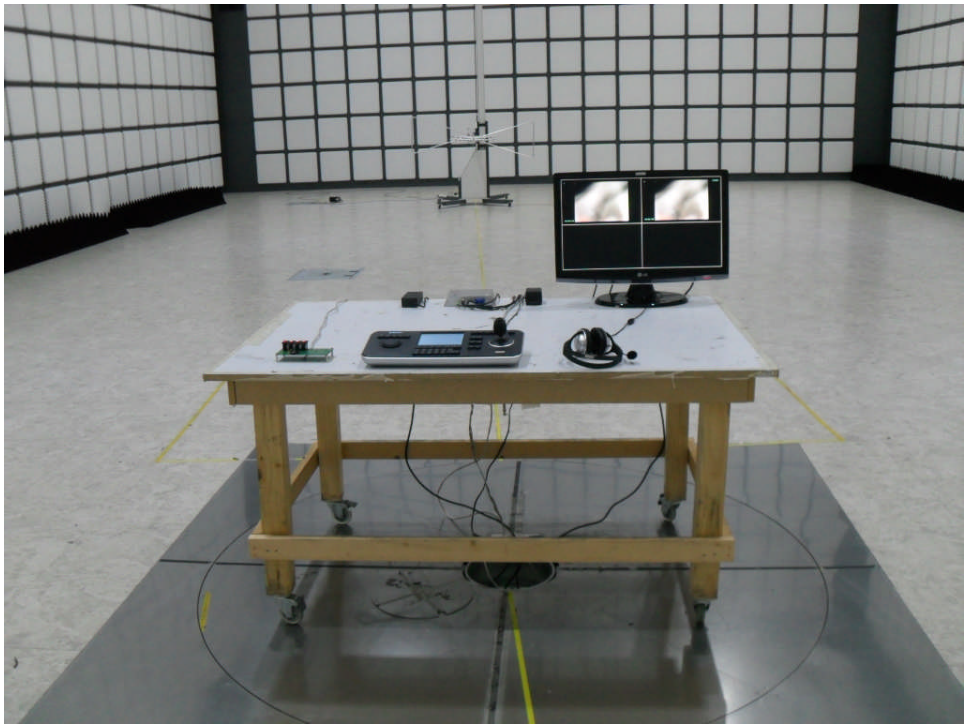
3 dB Att = 3 dB Attenuator

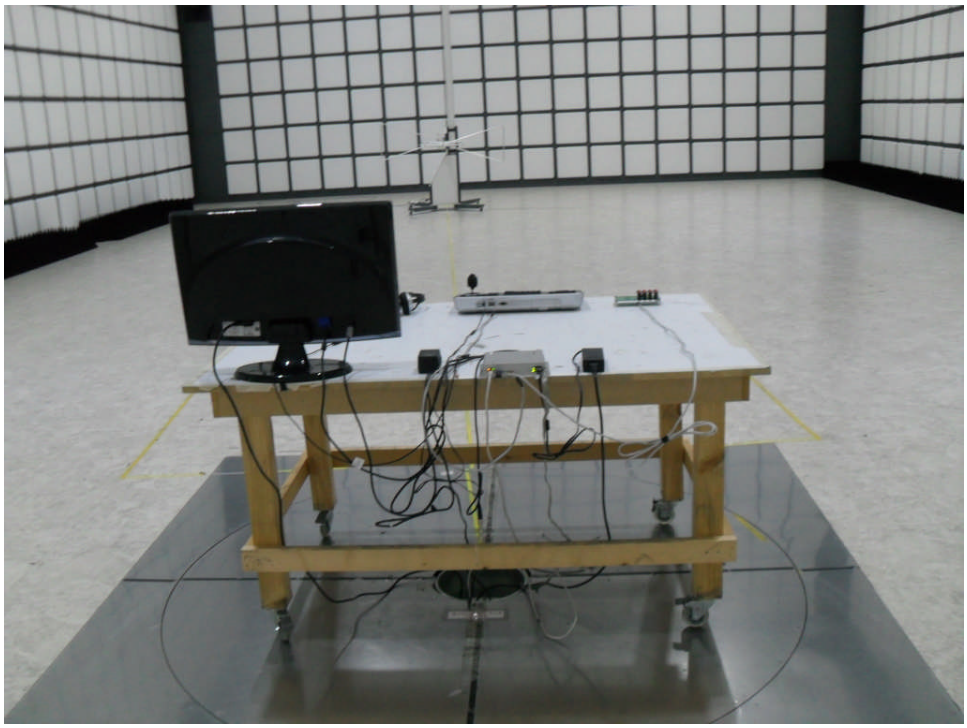
If M.R is 30 dB, A.F 12 dB, C.L 5 dB, 3 dB, A.G 35 dB

The result is 30 + 12 + 5 + 3 – 35 = 15 dB($\mu$V/m)

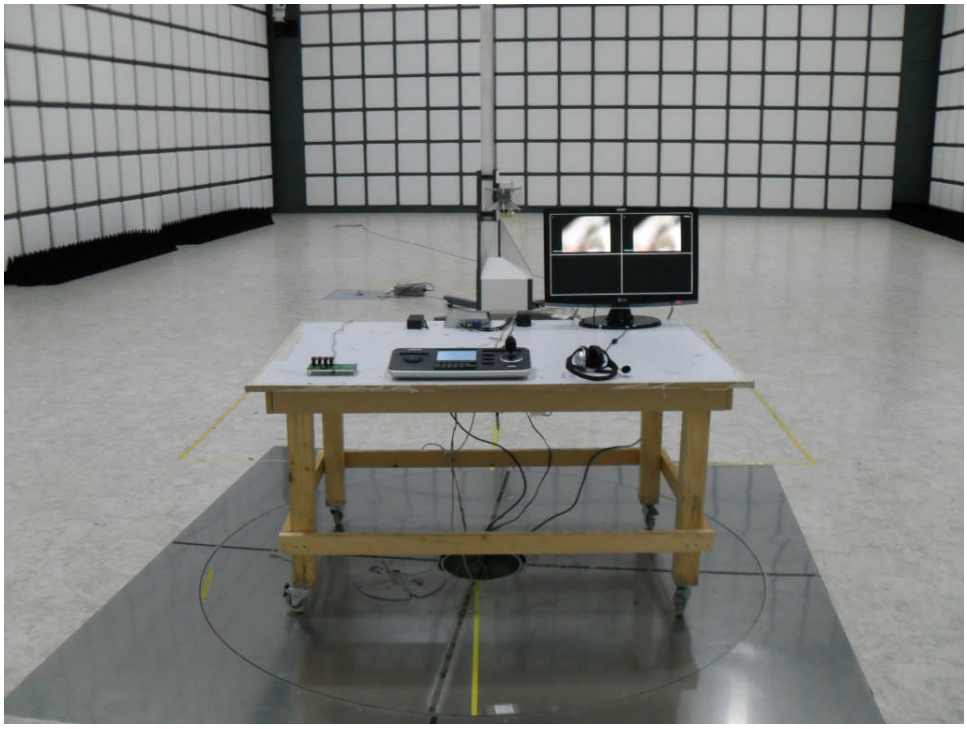
6.2.5 Photographs of test setup

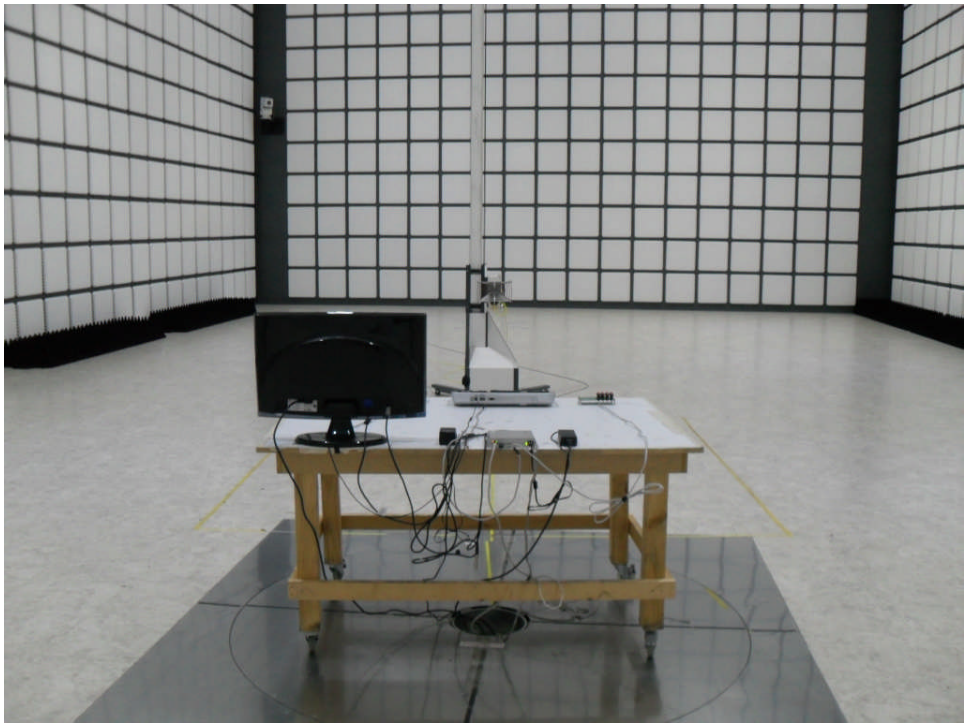
* 30 ㎒ ~ 1 ㎓





* 1 ㎓ ~ 5 ㎓

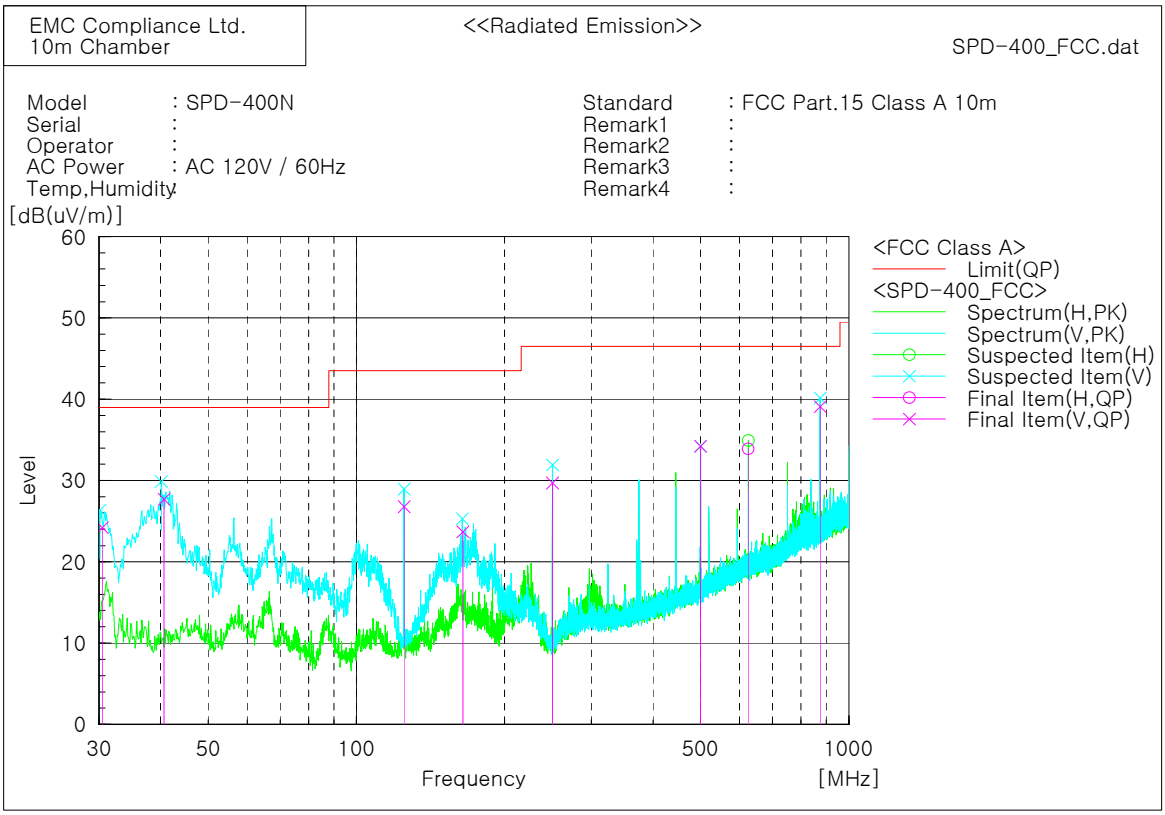




## 6.2.6 Radiated emission measurement result

*** Graph and Data**

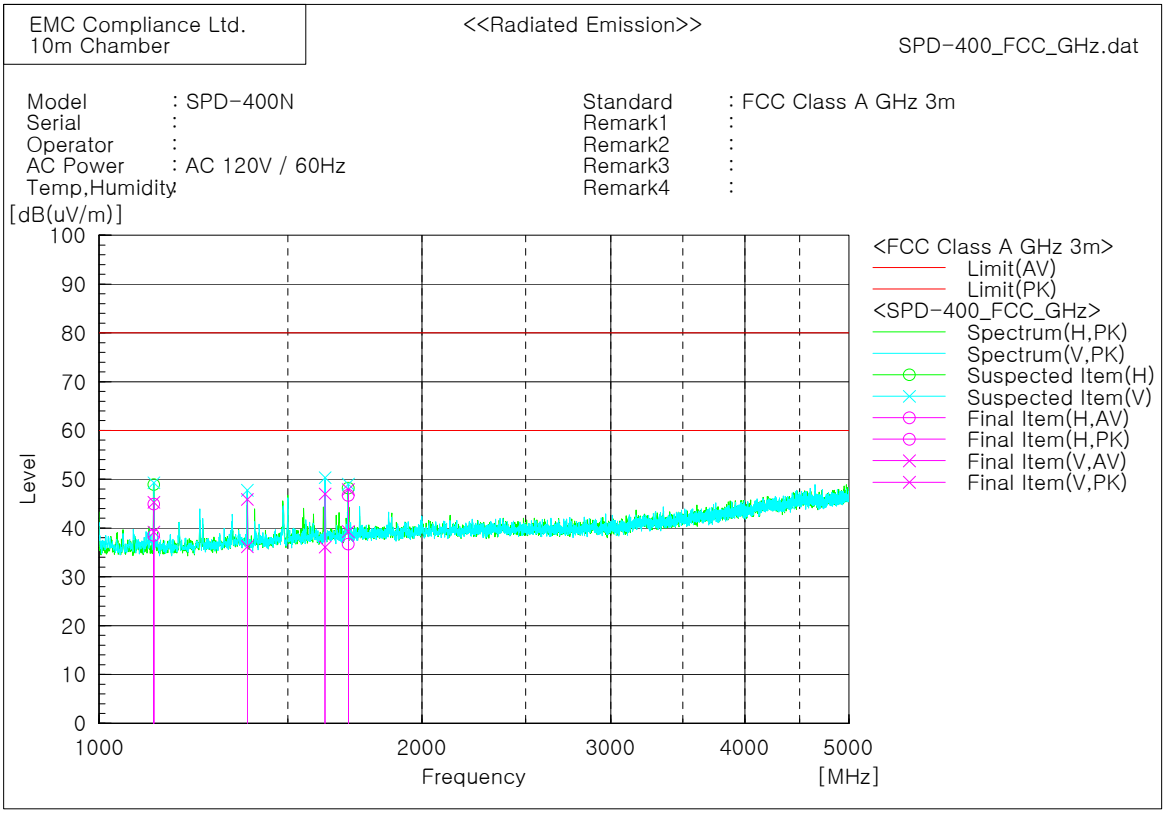
* 30 ㎒ ~ 1 ㎓




Final Result

| No. | Frequency [MHz] | (P) | Reading QP [dB(uV)] | c.f [dB(1/m)] | Result QP [dB(uV/m)] | Limit QP [dB(uV/m)] | Margin QP [dB] | Height [cm] | Angle [deg] |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 30.485 | V | 42.1 | -17.9 | 24.2 | 39.0 | 14.8 | 100.0 | 142.1 |
| 2 | 40.690 | V | 44.6 | -16.9 | 27.7 | 39.0 | 11.3 | 400.0 | 280.3 |
| 3 | 125.010 | V | 43.2 | -16.4 | 26.8 | 43.5 | 16.7 | 190.0 | 67.8 |
| 4 | 164.472 | V | 38.5 | -14.8 | 23.7 | 43.5 | 19.8 | 190.0 | 155.7 |
| 5 | 250.000 | V | 45.6 | -15.9 | 29.7 | 46.5 | 16.8 | 100.0 | 56.8 |
| 6 | 500.045 | V | 43.2 | -9.0 | 34.2 | 46.5 | 12.3 | 100.0 | 134.6 |
| 7 | 624.548 | H | 40.2 | -6.3 | 33.9 | 46.5 | 12.6 | 208.0 | 202.8 |
| 8 | 875.480 | V | 41.0 | -1.9 | 39.1 | 46.5 | 7.4 | 291.0 | 0.1 |

* 1 ㎓ ~ 5 ㎓



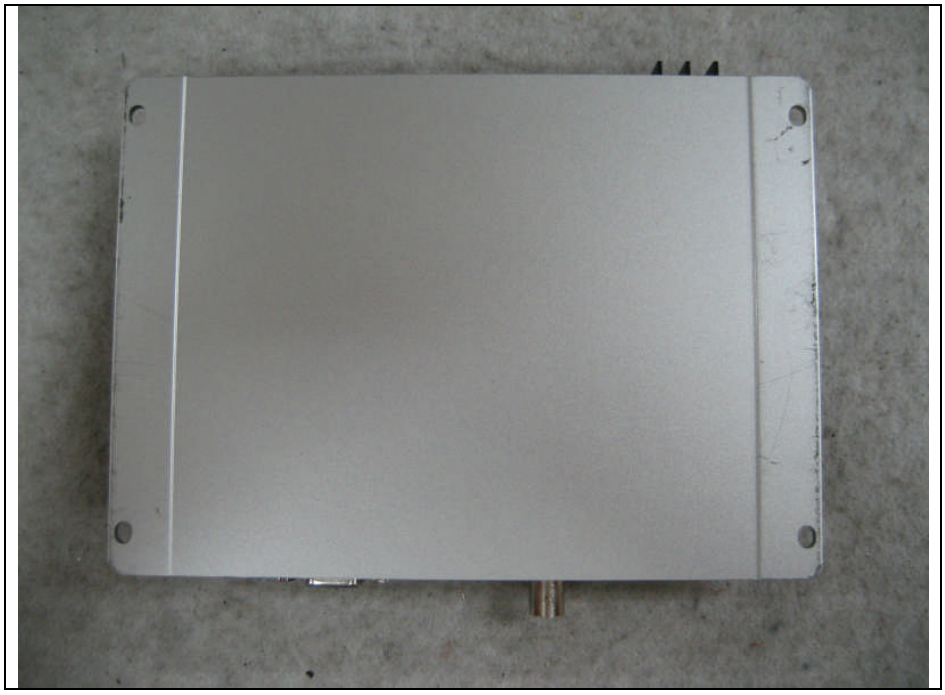

Final Result

| No. | Frequency [MHz] | (P) | Reading AV [dB(uV)] | Reading PK [dB(uV)] | c.f [dB(1/m)] | Result AV [dB(uV/m)] | Result PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Limit PK [dB(uV/m)] | Margin AV [dB] | Margin PK [dB] | Height [cm] | Angle [deg] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1124.944 | V | 51.2 | 57.3 | -12.0 | 39.2 | 45.3 | 60.0 | 80.0 | 20.8 | 34.7 | 199.0 | 50.9 |
| 2 | 1124.944 | H | 50.5 | 56.9 | -12.0 | 38.5 | 44.9 | 60.0 | 80.0 | 21.5 | 35.1 | 100.0 | 311.8 |
| 3 | 1374.898 | V | 46.1 | 55.8 | -9.9 | 36.2 | 45.9 | 60.0 | 80.0 | 23.8 | 34.1 | 100.0 | 317.4 |
| 4 | 1624.756 | V | 44.1 | 55.0 | -8.0 | 36.1 | 47.0 | 60.0 | 80.0 | 23.9 | 33.0 | 100.0 | 142.1 |
| 5 | 1707.154 | V | 46.8 | 55.4 | -7.5 | 39.3 | 47.9 | 60.0 | 80.0 | 20.7 | 32.1 | 100.0 | 124.5 |
| 6 | 1707.154 | H | 44.2 | 54.2 | -7.5 | 36.7 | 46.7 | 60.0 | 80.0 | 23.3 | 33.3 | 100.0 | 223.9 |

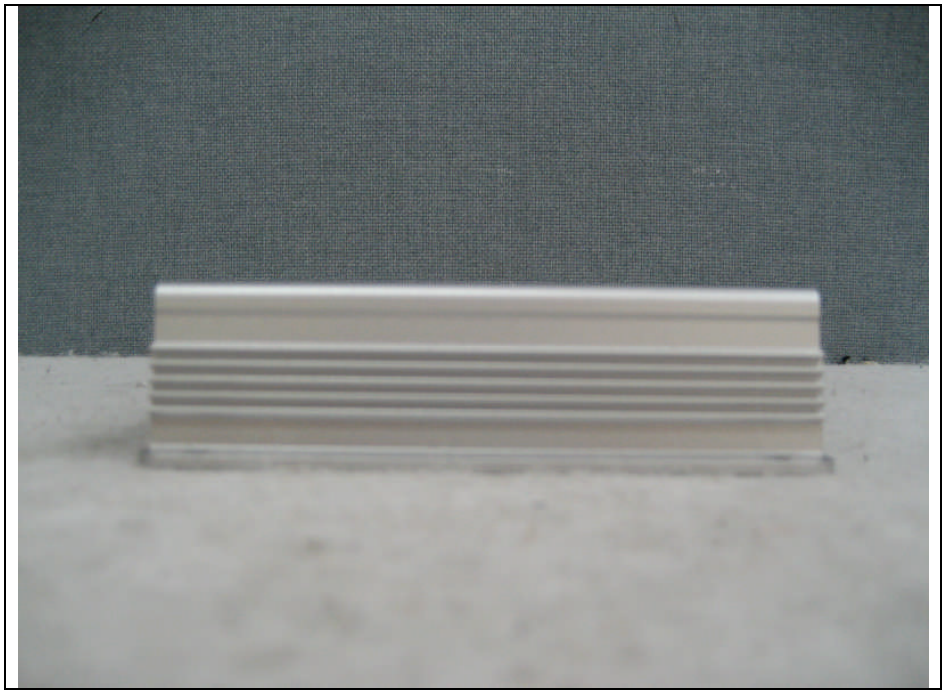
# 7. E.U.T. photographs

Front View

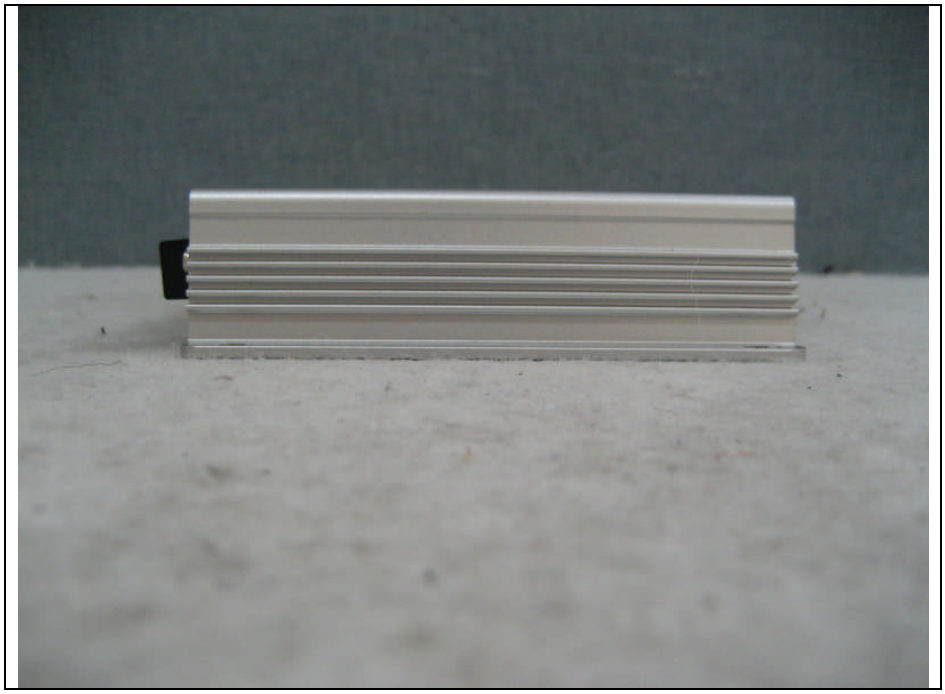

Rear View



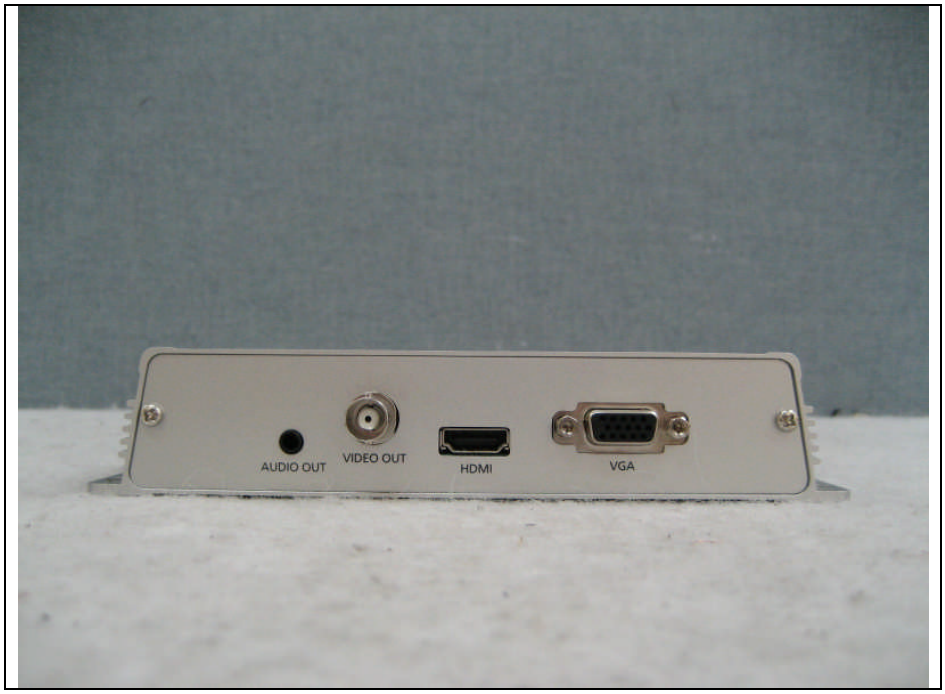
Left View



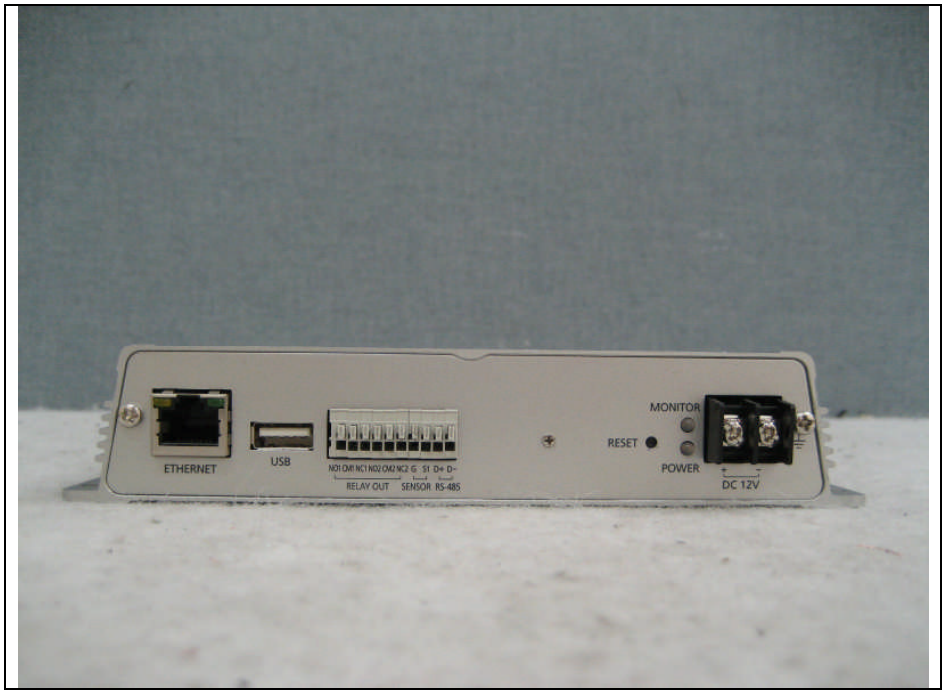
Right View



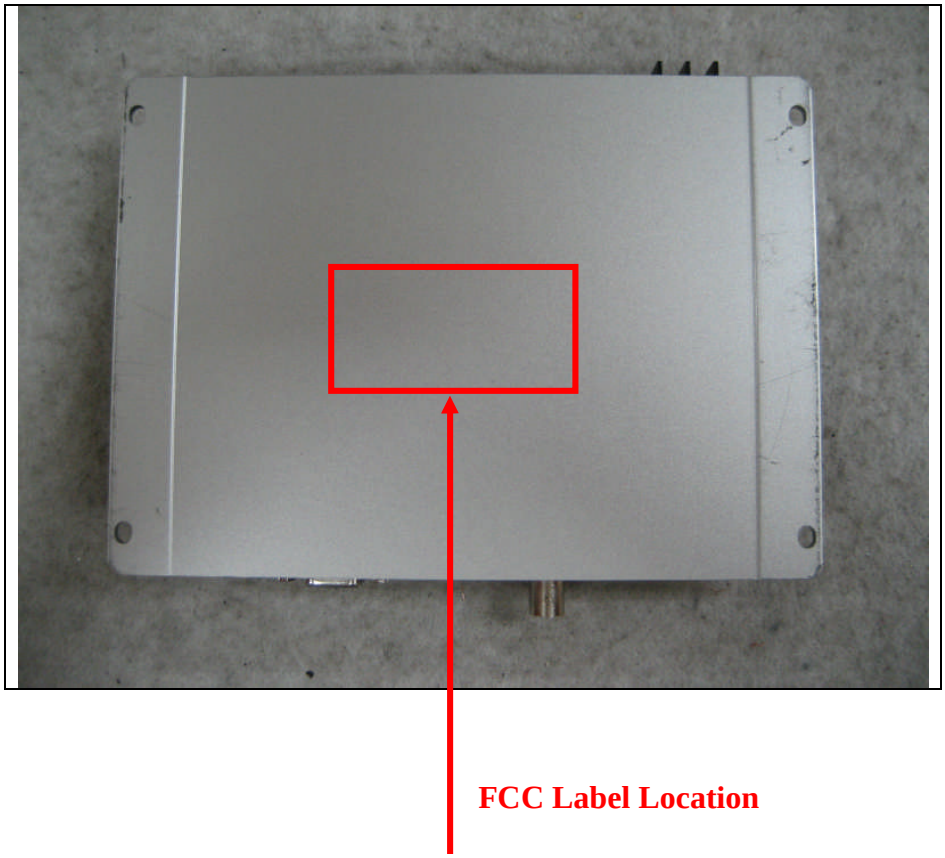
Top View




Bottom View



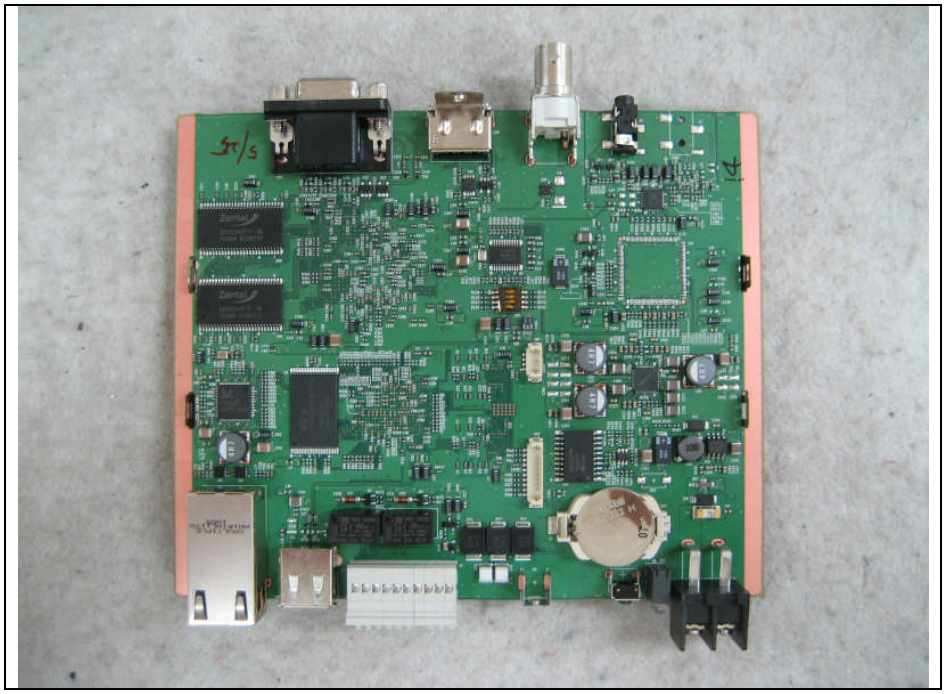
Label

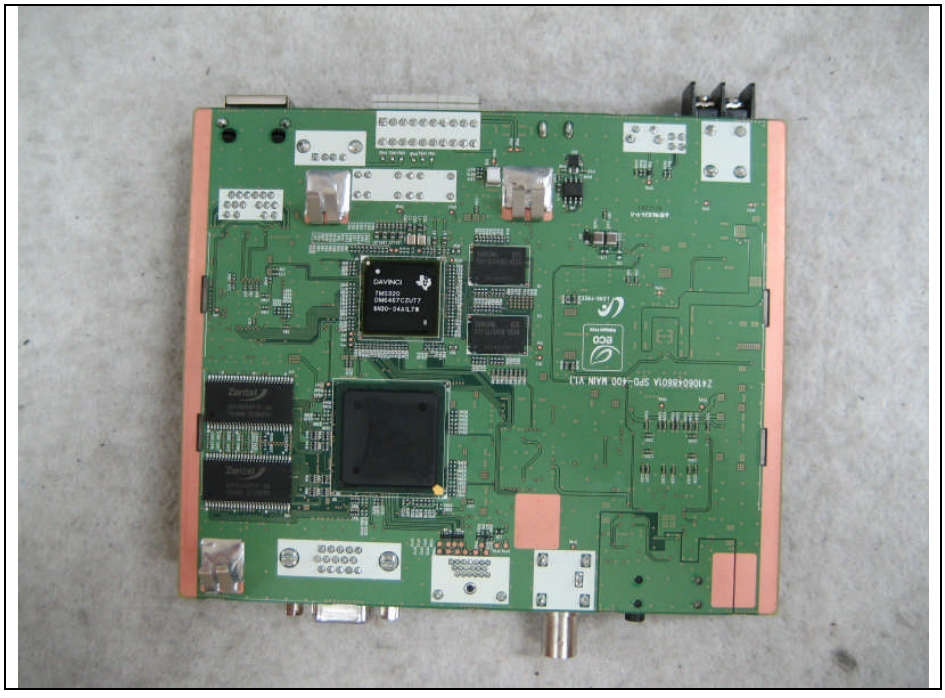



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Inside

Main Board





Adaptor