

CE/EMC COMPLIANCE REPORT

For

CHIPSEE CO., LIMITED.

Embedded Industrial Computer

Prepared for : CHIPSEE CO., LIMITED.

Address : Xinyuan Science Park B406 97 Changping Road,
Changping District Beijing 102206 China

Prepared by : EST Technology Co., Ltd.

Address : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
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Report No. : ESTE-E1912039

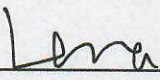


Date of Report : Dec. 18, 2019



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EST Technology Co., Ltd.

| | | | |
|---|---|---|------------------|
| Applicant: | CHIPSEE CO., LIMITED. | | |
| Address: | Xinyuan Science Park B406 97 Changping Road, Changping District Beijing 102206 China | | |
| Manufacturer: | CHIPSEE CO., LIMITED. | | |
| Address: | Xinyuan Science Park B406 97 Changping Road, Changping District Beijing 102206 China | | |
| Factory: | CHIPSEE CO., LIMITED. | | |
| Address: | Xinyuan Science Park B406 97 Changping Road, Changping District Beijing 102206 China | | |
| E.U.T: | Embedded Industrial Computer | | |
| Model Number: | CS10600U070E, CS10600U070P | | |
| Trade Name: | Chipsee | Serial No: | ----- |
| Date of Receipt: | Oct. 15, 2019 | Date of Test: | Dec. 09-16, 2019 |
| Test Specification: | EN 55032:2015 EN 55035:2017 | | |
| Test Result: | The equipment under test was found to be compliance with the requirements of the standards applied. | | |
| Issue Date: Dec. 18, 2019 | | | |
| Prepared by: | Reviewed by: | Approved by: | |
|  |  |  | |
| Lena / Assistant | Sean/ Engineer | Iceman Hu / Manager | |
| Other Aspects: | None. | | |
| Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested | | | |
| This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd. The statement of compliance in this report is based on the limit in the test standard, the measurement uncertainty is not considered. | | | |

1. GENERAL PRODUCT INFORMATION

1.1. Product Function

Refer to Technical Construction Form and User Manual.

1.2. Description of Device (EUT)

| | |
|----------------------|--------------------------------|
| Description | : Embedded Industrial Computer |
| Model No. | : CS10600U070E, CS10600U070P |
| System Input Voltage | : 12-36V DC, 15V, 600mA |
| Power | : 5W |
| DC Line | : Unshielded, Detachable 1.2m |
| LAN Line | : Unshielded, Detachable 1.2m |

1.3. Difference between Model Numbers

Note: CS10600U070E: With shell; CS10600U070P: Unshelled

1.4. Independent Operation Modes

The basic operation modes are:

1.4.1. USB Play

1.4.2. TF Play

1.4.3. LAN Mode

2. TEST STANDARDS AND SITES

2.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

| EMISSION(EN 55032:2015) | | | | |
|--|-----------------------------------|---|----------------------|---------|
| Description of Test Item | Standard | Limits | | Results |
| Conducted disturbance at mains terminals | EN 55032:2015 | ---- | | N/A |
| | | Minimum passing margin is ***dB at ***MHz | | |
| Asymmetric mode conducted emissions | EN 55032:2015 | Class B | | PASS |
| | | Minimum passing margin is 16.70dB at 0.38MHz | | |
| Radiated Emission Test (30MHz~1000MHz) | EN 55032:2015 | Class B | | PASS |
| | | Minimum passing margin is 4.31dB at 449.99MHz | | |
| Radiated Emission Test (above 1GHz) | EN 55032:2015 | Class B | | PASS |
| | | Minimum passing margin is 9.76dB at 1185MHz | | |
| Harmonic current emissions | EN IEC 61000-3-2:2019 | ----- | | N/A |
| Voltage fluctuations & flicker | EN 61000-3-3:2013 | ----- | | N/A |
| IMMUNITY (EN 55035:2017) | | | | |
| Description of Test Item | Basic Standard | Performance Criteria | Observation Criteria | Results |
| Electrostatic discharge (ESD) | EN 61000-4-2:2009 | B | B | PASS |
| Radio-frequency,Continuous radiated disturbance | EN 61000-4-3:2006+A1:2008+A2:2010 | A | A | PASS |
| Electrical fast transient (EFT) | EN 61000-4-4:2012 | B | * | N/A |
| Surge (Input a.c. power port) | EN 61000-4-5:2014 | B | * | N/A |
| Radio-frequency,Continuous conducted disturbance | EN 61000-4-6:2014 | A | * | N/A |
| Power frequency magnetic field | EN 61000-4-8:2010 | A | A | PASS |
| Voltage dips, >95% reduction | EN 61000-4-11:2004 | B | * | N/A |
| Voltage dips, 30% reduction | | C | * | N/A |
| Voltage interruptions | | C | * | N/A |
| N/A is an abbreviation for Not Applicable. | | | | |

2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA
Registration No.: L5288
Date of registration: November 13, 2017

Certificated by FCC, USA
Designation Number: CN1215
Test Firm Registration Number: 722932
Date of registration: November 21, 2017

Certificated by A2LA, USA
Registration No.: 4366.01
Date of registration: November 07, 2017

Certificated by Industry Canada
CAB identifier No.: CN0035
Date of registration: January 04, 2019

Certificated by VCCI, Japan
Registration No.: R-13663; C-14103
Date of registration: July 25, 2017
This Certificate is valid until: July 24, 2020

Certificated by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Certificated by TUV/PS, Shenzhen
Registration No.: SCN1017
Date of registration: January 27, 2011

Certificated by Intertek
Registration No.: 2011-RTL-L2-64
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

2.3.List of Test and Measurement Instruments

2.3.1. For asymmetric mode conducted emissions test

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---------------------|-----------------|--------------|------------|------------|-----------|
| EMI Test Receiver | Rohde & Schwarz | ESPR3 | EST-E070 | June 14,19 | 1 Year |
| ISN | Teseq | T8 | EST-E041 | June 14,19 | 1 Year |
| Current Transformer | SCHWARZBECK | SW9605 | EST-E045 | June 14,19 | 1 Year |
| Voltage Probe | SCHWARZBECK | TK9420 | EST-E046 | June 14,19 | 1 Year |
| Test Software | Audix | e3-6.111221a | N/A | N/A | N/A |

2.3.2. For radiated emission test (30MHz-1000MHz; 2# 966 radiation)

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|-------------------|-----------------|--------------|------------|------------|-----------|
| EMI Test Receiver | Rohde & Schwarz | ESCI3 | EST-E071 | June 14,19 | 1 Year |
| Bilog Antenna | Teseq | CBL 6111D | EST-E053 | June 14,19 | 1 Year |
| Test Software | Audix | e3-6.111221a | N/A | N/A | N/A |

2.3.3. For radiated emission test (above 1GHz)

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|-------------------|-----------------|--------------|------------|------------|-----------|
| EMI Test Receiver | Rohde & Schwarz | ESR7 | EST-E047 | June 14,19 | 1 Year |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | EST-E031 | June 14,19 | 1 Year |
| Test Software | Audix | e3-6.111221a | N/A | N/A | N/A |

2.3.4. For electrostatic discharge immunity test

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---------------|--------------|-----------|------------|------------|-----------|
| ESD Generator | HAEFELY | ONYX16 | EST-E013 | June 14,19 | 1 Year |

2.3.5. Radio Frequency Electromagnetic Field Immunity (R/S) Test

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|------------------|--------------|-----------------|------------|-------------|-----------|
| Signal Generator | Agilent | N5181A | EST-E060 | Sep. 06, 19 | 1 Year |
| Power Amplifier | SKET | HAP801000M-250W | EST-E061 | N/A | N/A |
| Power Amplifier | SKET | HAP0103G-75W | EST-E062 | N/A | N/A |
| Power Amplifier | SKET | HAP0306G-50W | EST-E063 | N/A | N/A |
| Power Meter | Agilent | E4419B | EST-E064 | June 14,19 | 1 Year |
| Power sensor | Agilent | E9301A | EST-E065 | June 14,19 | 1 Year |
| Power sensor | HP | E9301A | EST-E066 | June 14,19 | 1 Year |
| Antenna | Schwarzbeck | STLP 9129 | EST-E059 | N/A | N/A |
| E-Field Probe | Narda | EP-601 | EST-E067 | June 14,19 | 1 Year |
| Test Software | SKET | EMC-S | V1.2.0.48 | N/A | N/A |

2.3.6.For power frequency magnetic field immunity test

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|-----------------------|--------------|-----------|------------|------------|-----------|
| Magnetic Field Tester | HAEFELY | MFS 100 | EST-E018 | June 14,19 | 1 Year |

Note: All calibration reports of the equipment were provided by LiSai calibration and Testing

3. TEST SET-UP AND OPERATION MODES

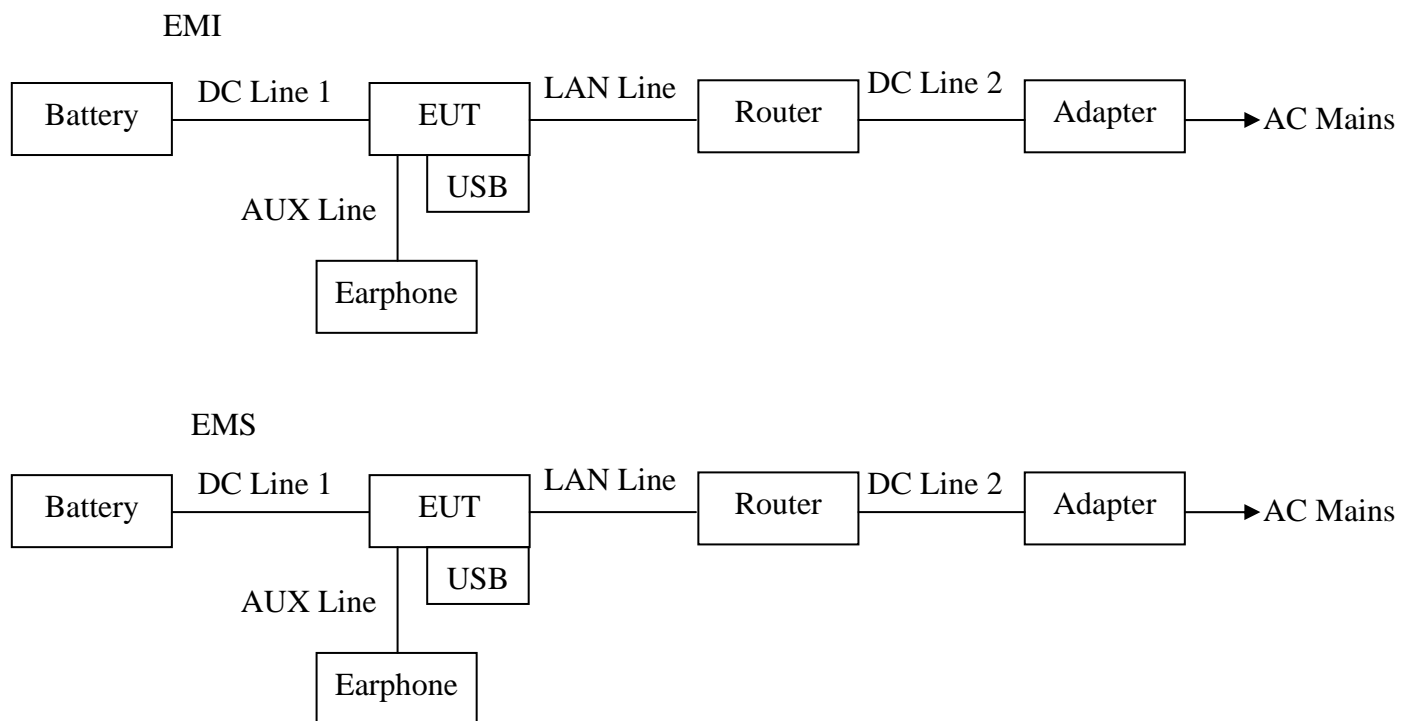
3.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

Immunity: The equipment under test (EUT) was configured to the representative operating mode and conditions.

3.2. Block Diagram of Test Set-up

System Diagram of Connections Between EUT and Simulators



(EUT: Embedded Industrial Computer)

3.3. Test Operation Mode and Test Software

Refer to Test Setup in clause 4 & 5.

3.4. Special Accessories and Auxiliary Equipment

3.4.1. U Disc

M / N : SDCZ7-4096

S / N : BH0701AGOB
Manufacturer : SanDisk

3.4.2.Earphone

M / N : KDM-430
Manufacturer : KEENION
Data Cable : Unshielded, Undetachable, 1.6m

3.4.3.Router

M / N : RT-AC66U
S / N : G1ICGG000260
Manufacturer : ASUS
Ethernet Line : Shielded, Detachable 1.5m

3.4.4.SD Card

S / N : BE10277116224G
Manufacturer : SanDisk

3.5. Countermeasures to Achieve EMC Compliance

None.

4. EMISSION TEST RESULTS

4.1. Asymmetric mode conducted emissions test

RESULT : **Pass**
Test procedure : EN 55032:2015
Frequency range : 0.15~30MHz
Test Site : Shielded Room
Limits : EN 55032:2015 Class B

Test Setup

Date of test : Dec. 09, 2019
Model No. : CS10600U070E, CS10600U070P
Input Voltage : DC 12V
Operation Mode : LAN Mode

The frequency range from 150 kHz to 30 MHz was investigated.

The bandwidth of the test receiver was set at 9 kHz.

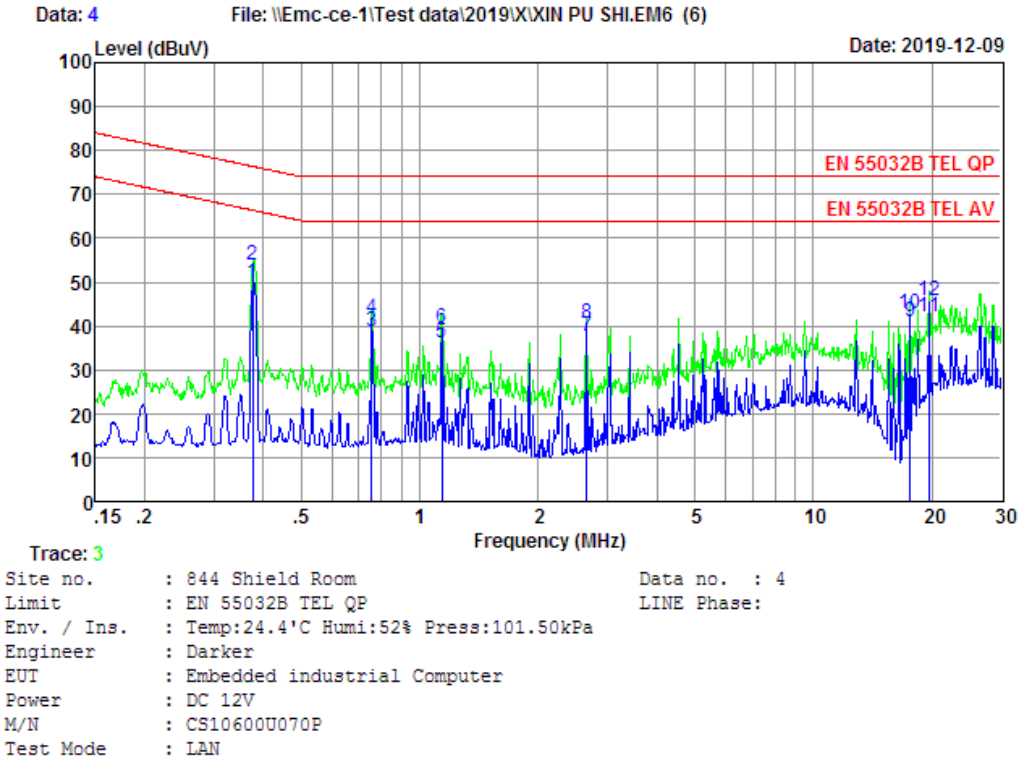
The test data of the worst case condition(s) was reported on the following page.

Note: Test uncertainty: $\pm 4.18\text{dB}$ at a level of confidence of 95%.

Test Data

EST Technology

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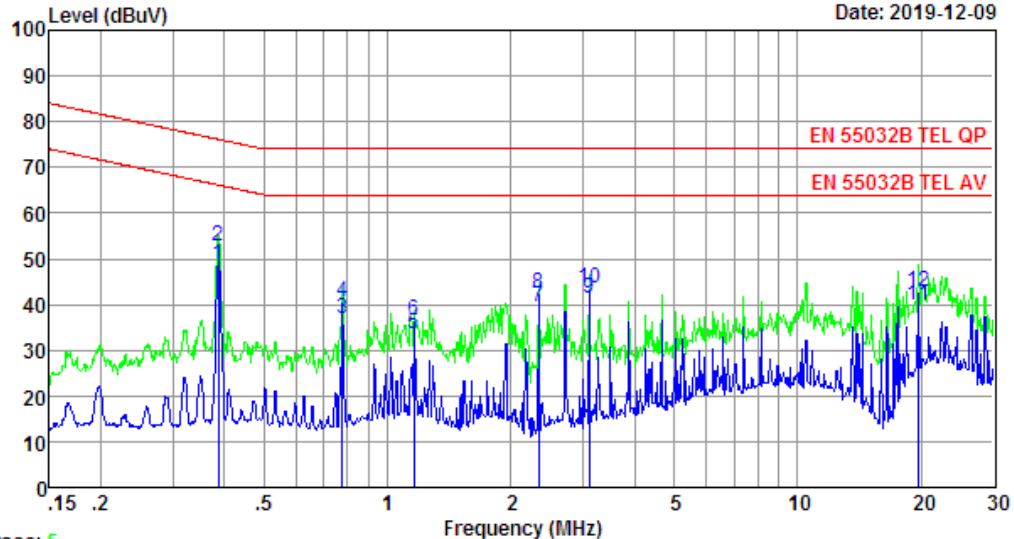
| | Freq. (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1 | 0.38 | 9.80 | 9.92 | 29.92 | 49.64 | 66.34 | 16.70 | Average |
| 2 | 0.38 | 9.80 | 9.92 | 34.00 | 53.72 | 76.34 | 22.62 | QP |
| 3 | 0.75 | 9.70 | 9.93 | 18.99 | 38.62 | 64.00 | 25.38 | Average |
| 4 | 0.75 | 9.70 | 9.93 | 22.00 | 41.63 | 74.00 | 32.37 | QP |
| 5 | 1.14 | 9.65 | 9.94 | 16.69 | 36.28 | 64.00 | 27.72 | Average |
| 6 | 1.14 | 9.65 | 9.94 | 20.00 | 39.59 | 74.00 | 34.41 | QP |
| 7 | 2.65 | 9.59 | 9.97 | 18.19 | 37.75 | 64.00 | 26.25 | Average |
| 8 | 2.65 | 9.59 | 9.97 | 21.00 | 40.56 | 74.00 | 33.44 | QP |
| 9 | 17.66 | 9.65 | 10.14 | 21.10 | 40.89 | 64.00 | 23.11 | Average |
| 10 | 17.66 | 9.65 | 10.14 | 23.00 | 42.79 | 74.00 | 31.21 | QP |
| 11 | 19.74 | 9.69 | 10.15 | 22.10 | 41.94 | 64.00 | 22.06 | Average |
| 12 | 19.74 | 9.69 | 10.15 | 26.00 | 45.84 | 74.00 | 28.16 | QP |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Data: 6

File: \\Emc-ce-1\Test data\2019\X\XIN PU SHIEM6 (6)

Date: 2019-12-09



Trace: 5
 Site no. : 844 Shield Room
 Limit : EN 55032B TEL QP
 Env. / Ins. : Temp:24.4°C Humi:52% Press:101.50kPa
 Engineer : Darker
 EUT : Embedded industrial Computer
 Power : DC 12V
 M/N : CS10600U070E
 Test Mode : LAN

Data no. : 6
 LINE Phase:

| | Freq. (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1 | 0.39 | 9.80 | 9.92 | 28.96 | 48.68 | 66.12 | 17.44 | Average |
| 2 | 0.39 | 9.80 | 9.92 | 33.00 | 52.72 | 76.12 | 23.40 | QP |
| 3 | 0.78 | 9.69 | 9.93 | 17.16 | 36.78 | 64.00 | 27.22 | Average |
| 4 | 0.78 | 9.69 | 9.93 | 21.01 | 40.63 | 74.00 | 33.37 | QP |
| 5 | 1.16 | 9.65 | 9.94 | 14.02 | 33.61 | 64.00 | 30.39 | Average |
| 6 | 1.16 | 9.65 | 9.94 | 17.00 | 36.59 | 74.00 | 37.41 | QP |
| 7 | 2.33 | 9.60 | 9.96 | 20.02 | 39.58 | 64.00 | 24.42 | Average |
| 8 | 2.33 | 9.60 | 9.96 | 23.00 | 42.56 | 74.00 | 31.44 | QP |
| 9 | 3.11 | 9.59 | 9.98 | 21.79 | 41.36 | 64.00 | 22.64 | Average |
| 10 | 3.11 | 9.59 | 9.98 | 24.00 | 43.57 | 74.00 | 30.43 | QP |
| 11 | 19.74 | 9.69 | 10.15 | 20.12 | 39.96 | 64.00 | 24.04 | Average |
| 12 | 19.74 | 9.69 | 10.15 | 23.00 | 42.84 | 74.00 | 31.16 | QP |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4.2. Radiated Emission Test (30MHz-1000MHz)

RESULT : **Pass**
Test procedure : EN 55032:2015
Frequency range : 30~1000MHz
Test Site : 2#966 Chamber
Limits : EN 55032:2015 Class B

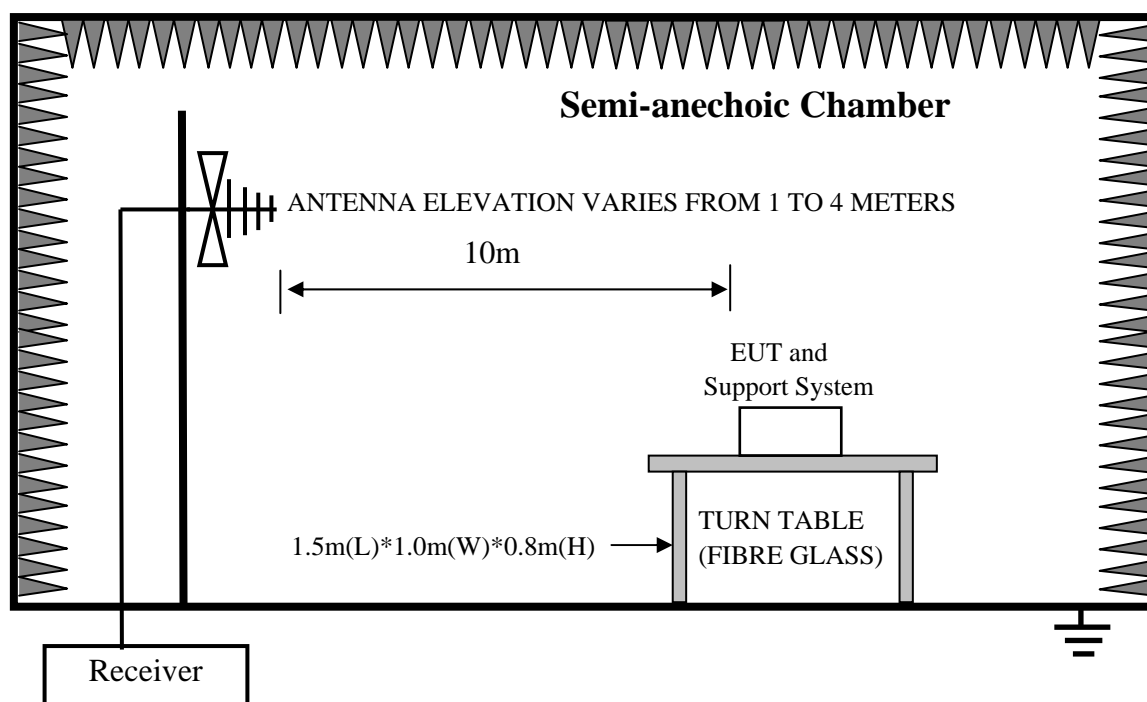
Test Setup

Date of test : Dec. 10, 2019
Model No. : CS10600U070E, CS10600U070P
Input Voltage : DC 12V
Operation Mode : LAN Mode, USB Play, TF Play

The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m away from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector from the spectrum, and all the final readings from the test receiver were measured with the Quasi-Peak detector.

The bandwidth setting on the test receiver was 120 kHz.



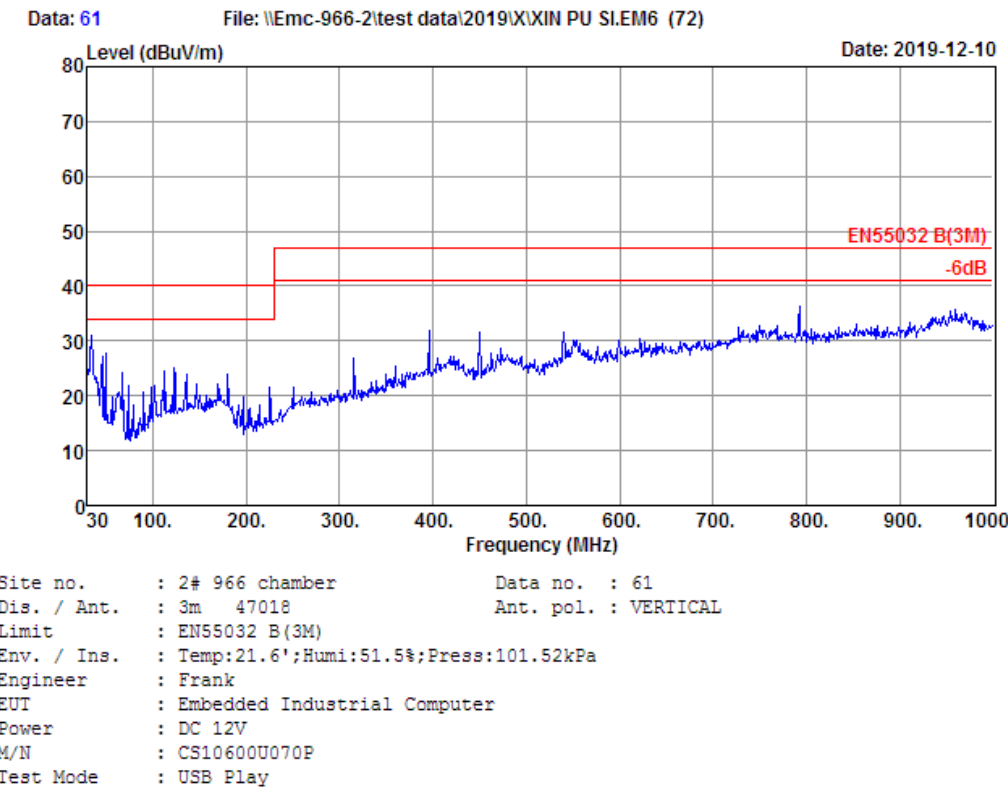
Note:

Test uncertainty: ± 4.26 dB (H); ± 4.74 dB (V) at a level of confidence of 95%.(2#966)

Test Data

EST Technology

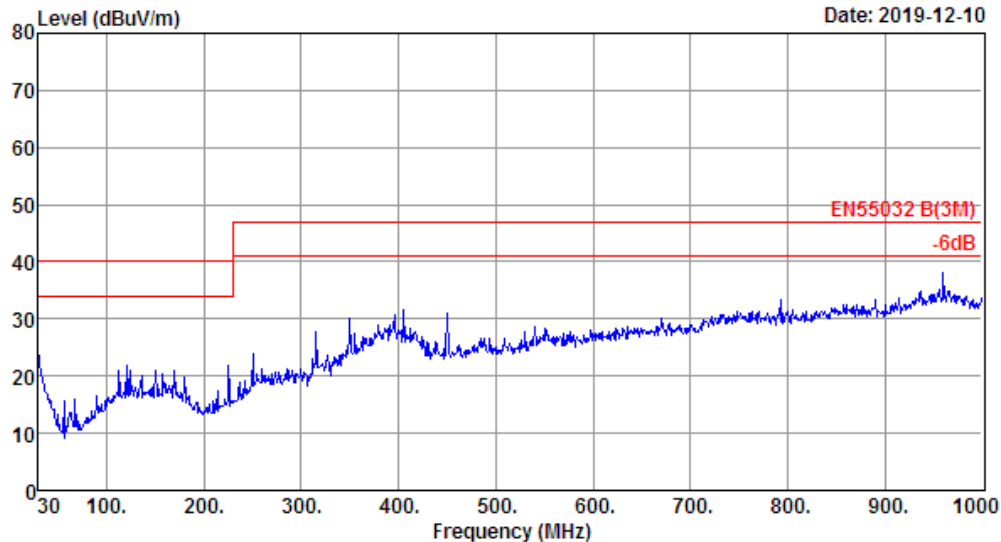
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Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878



Data: 62

File: \\Emc-966-2\\test data\\2019\\X\\XIN PU SLEM6 (72)

Date: 2019-12-10

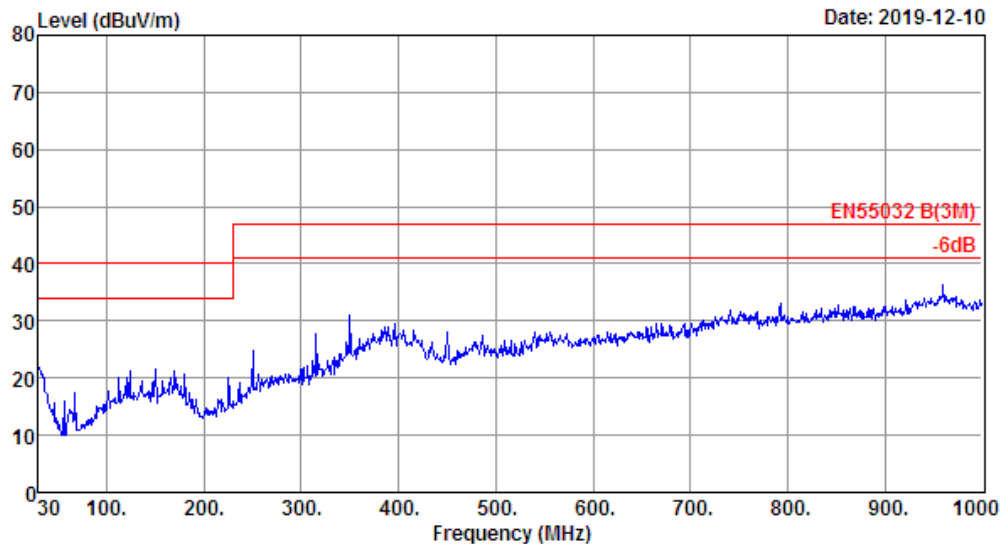


| | | | |
|-------------|---|-----------|--------------|
| Site no. | : 2# 966 chamber | Data no. | : 62 |
| Dis. / Ant. | : 3m 47018 | Ant. pol. | : HORIZONTAL |
| Limit | : EN55032 B(3M) | | |
| Env. / Ins. | : Temp:21.6°;Humi:51.5%;Press:101.52kPa | | |
| Engineer | : Frank | | |
| EUT | : Embedded Industrial Computer | | |
| Power | : DC 12V | | |
| M/N | : CS10600U070P | | |
| Test Mode | : USB Play | | |

Data: 63

File: \\Emc-966-2\\test data\\2019\\X\\XIN PU SLEM6 (72)

Date: 2019-12-10

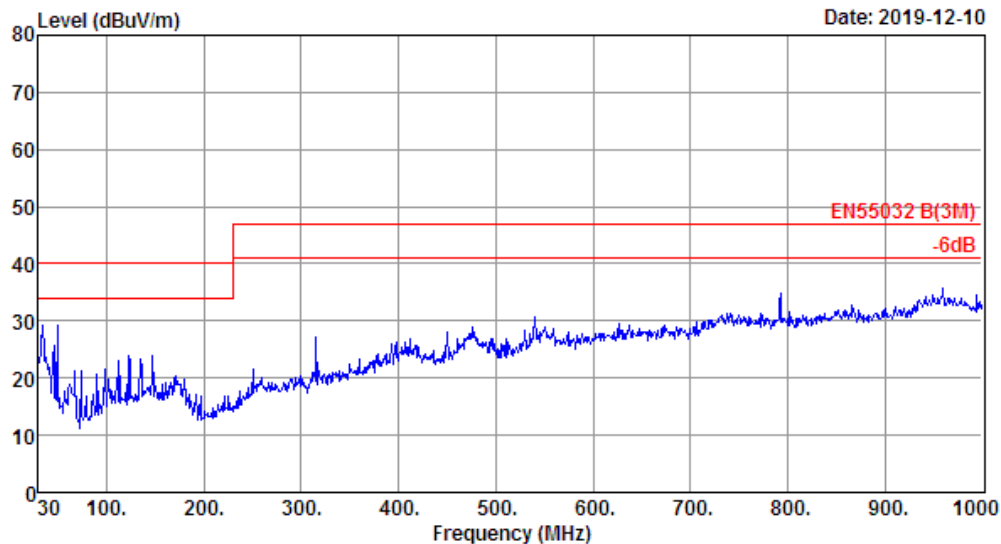


| | | | |
|-------------|---|-----------|--------------|
| Site no. | : 2# 966 chamber | Data no. | : 63 |
| Dis. / Ant. | : 3m 47018 | Ant. pol. | : HORIZONTAL |
| Limit | : EN55032 B(3M) | | |
| Env. / Ins. | : Temp:21.6°;Humi:51.5%;Press:101.52kPa | | |
| Engineer | : Frank | | |
| EUT | : Embedded Industrial Computer | | |
| Power | : DC 12V | | |
| M/N | : CS10600U070P | | |
| Test Mode | : TF Play | | |

Data: 64

File: \\Emc-966-2\\test data\\2019\\X\\XIN PU SLEM6 (72)

Date: 2019-12-10

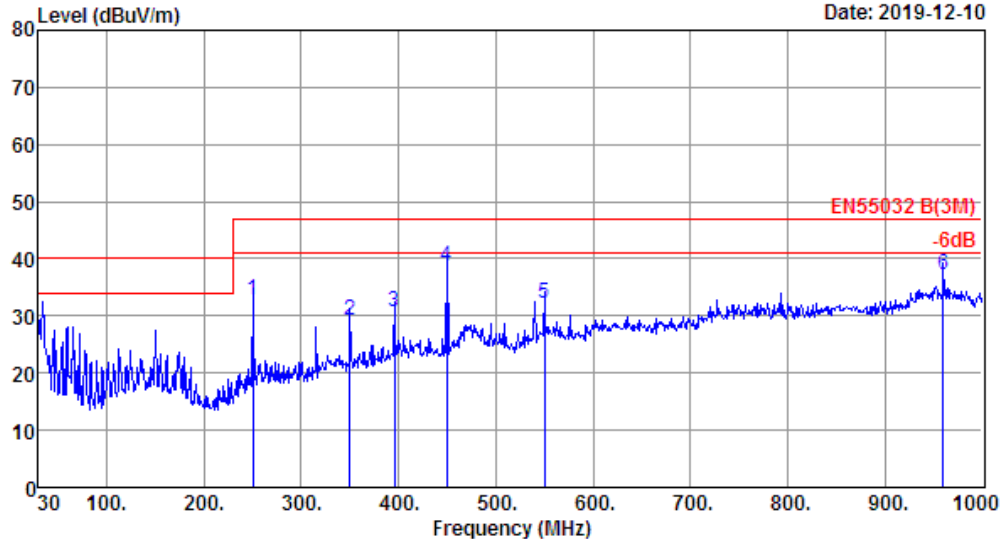


| | | | |
|-------------|---|-----------|------------|
| Site no. | : 2# 966 chamber | Data no. | : 64 |
| Dis. / Ant. | : 3m 47018 | Ant. pol. | : VERTICAL |
| Limit | : EN55032 B(3M) | | |
| Env. / Ins. | : Temp:21.6°;Humi:51.5%;Press:101.52kPa | | |
| Engineer | : Frank | | |
| EUT | : Embedded Industrial Computer | | |
| Power | : DC 12V | | |
| M/N | : CS10600U070P | | |
| Test Mode | : TF Play | | |

Data: 65

File: \\Emc-966-2\\test data\\2019\\X\\XIN PU SLEM6 (72)

Date: 2019-12-10



Site no. : 2# 966 chamber Data no. : 65
 Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:21.6°; Humi:51.5%; Press:101.52kPa
 Engineer : Frank
 EUT : Embedded Industrial Computer
 Power : DC 12V
 M/N : CS10600U070P
 Test Mode : LAN Mode

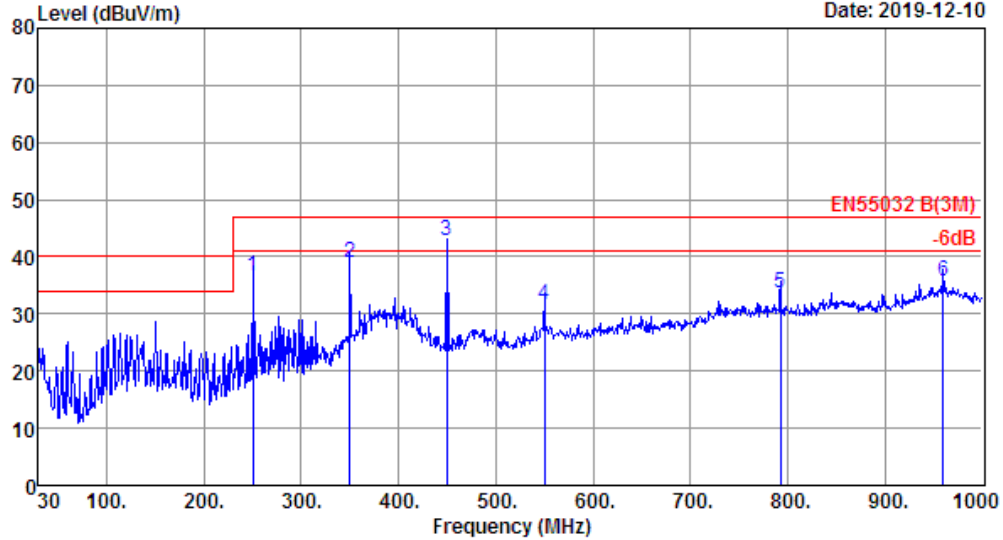
| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 250.19 | 0.00 | 1.62 | 31.14 | 32.76 | 47.00 | 14.24 | QP |
| 2 | 350.10 | 0.00 | 2.11 | 27.14 | 29.25 | 47.00 | 17.75 | QP |
| 3 | 395.69 | 0.00 | 2.12 | 28.46 | 30.58 | 47.00 | 16.42 | QP |
| 4 | 450.01 | 0.00 | 2.55 | 36.18 | 38.73 | 47.00 | 8.27 | QP |
| 5 | 549.92 | 0.00 | 2.83 | 29.47 | 32.30 | 47.00 | 14.70 | QP |
| 6 | 960.23 | 0.00 | 4.61 | 32.65 | 37.26 | 47.00 | 9.74 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 66

File: \\Emc-966-2\\test data\\2019\\X\\XIN PU SLEM6 (72)

Date: 2019-12-10



Site no. : 2# 966 chamber Data no. : 66
 Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL
 Limit : EN55032 B(3M)
 Env. / Ins. : Temp:21.6°; Humi:51.5%; Press:101.52kPa
 Engineer : Frank
 EUT : Embedded Industrial Computer
 Power : DC 12V
 M/N : CS10600U070P
 Test Mode : LAN Mode

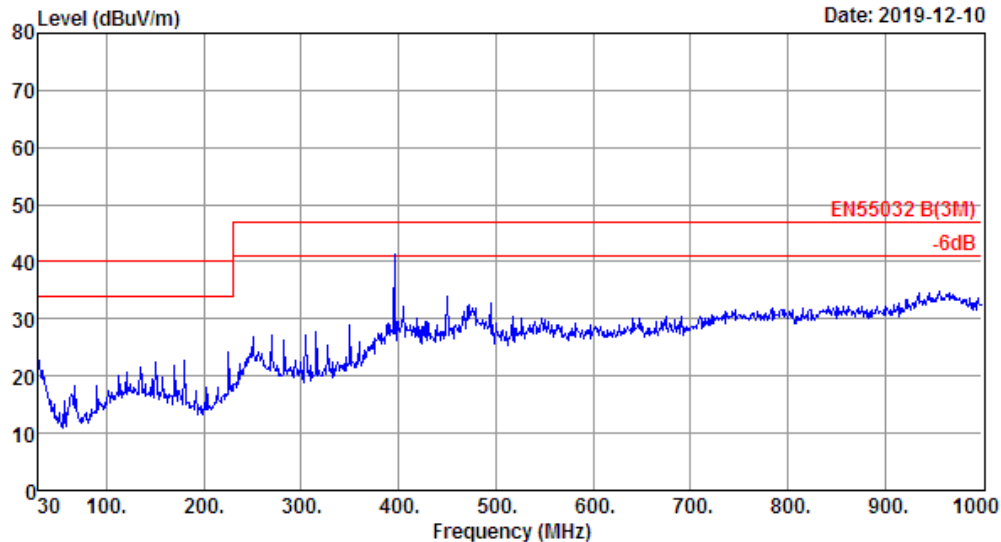
| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 250.19 | 0.00 | 1.62 | 34.86 | 36.48 | 47.00 | 10.52 | QP |
| 2 | 350.10 | 0.00 | 2.11 | 36.74 | 38.85 | 47.00 | 8.15 | QP |
| 3 | 449.99 | 16.82 | 2.17 | 23.70 | 42.69 | 47.00 | 4.31 | QP |
| 4 | 549.92 | 0.00 | 2.83 | 28.82 | 31.65 | 47.00 | 15.35 | QP |
| 5 | 792.42 | 0.00 | 3.55 | 30.14 | 33.69 | 47.00 | 13.31 | QP |
| 6 | 960.23 | 0.00 | 4.61 | 31.25 | 35.86 | 47.00 | 11.14 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 67

File: \\Emc-966-2\\test data\\2019\\X\\XIN PU SLEM6 (72)

Date: 2019-12-10

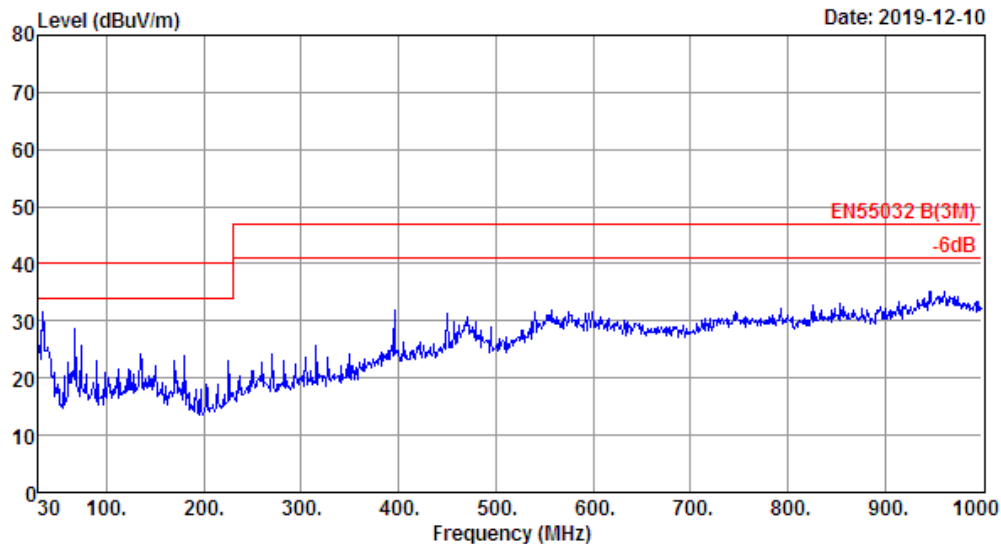


| | | | |
|-------------|---|-----------|--------------|
| Site no. | : 2# 966 chamber | Data no. | : 67 |
| Dis. / Ant. | : 3m 47018 | Ant. pol. | : HORIZONTAL |
| Limit | : EN55032 B(3M) | | |
| Env. / Ins. | : Temp:21.6°;Humi:51.5%;Press:101.52kPa | | |
| Engineer | : Frank | | |
| EUT | : Embedded Industrial Computer | | |
| Power | : DC 12V | | |
| M/N | : CS10600U070E | | |
| Test Mode | : TF Play | | |

Data: 68

File: \\Emc-966-2\\test data\\2019\\X\\XIN PU SLEM6 (72)

Date: 2019-12-10

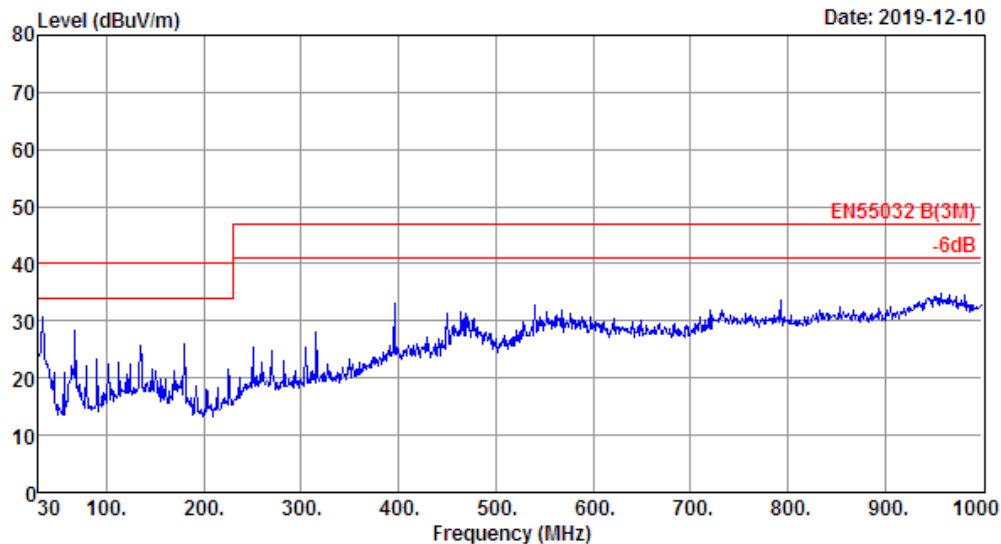


| | | | |
|-------------|---|-----------|------------|
| Site no. | : 2# 966 chamber | Data no. | : 68 |
| Dis. / Ant. | : 3m 47018 | Ant. pol. | : VERTICAL |
| Limit | : EN55032 B(3M) | | |
| Env. / Ins. | : Temp:21.6°;Humi:51.5%;Press:101.52kPa | | |
| Engineer | : Frank | | |
| EUT | : Embedded Industrial Computer | | |
| Power | : DC 12V | | |
| M/N | : CS10600U070E | | |
| Test Mode | : TF Play | | |

Data: 69

File: \\Emc-966-2\\test data\\2019\\X\\XIN PU SLEM6 (72)

Date: 2019-12-10

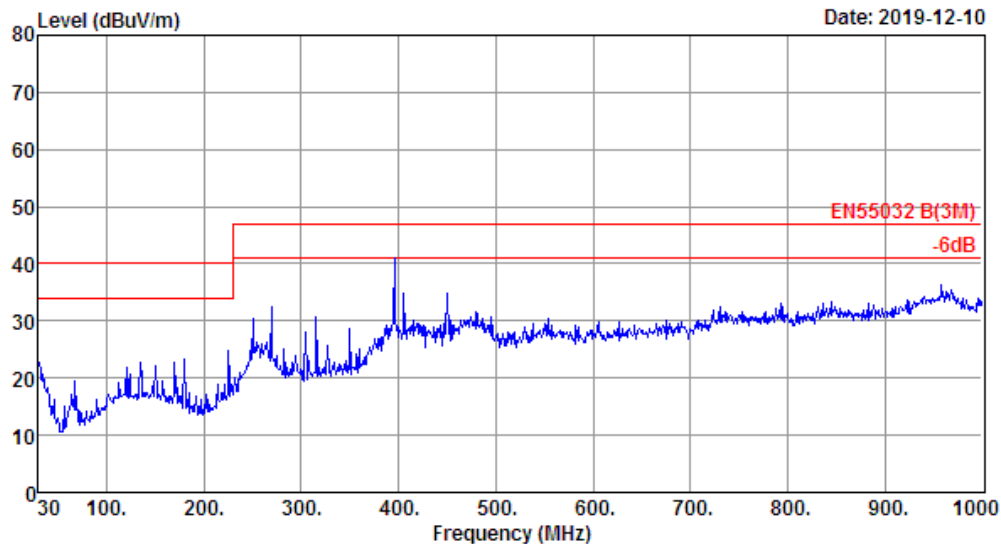


| | | | |
|-------------|---|-----------|------------|
| Site no. | : 2# 966 chamber | Data no. | : 69 |
| Dis. / Ant. | : 3m 47018 | Ant. pol. | : VERTICAL |
| Limit | : EN55032 B(3M) | | |
| Env. / Ins. | : Temp:21.6°;Humi:51.5%;Press:101.52kPa | | |
| Engineer | : Frank | | |
| EUT | : Embedded Industrial Computer | | |
| Power | : DC 12V | | |
| M/N | : CS10600U070E | | |
| Test Mode | : USB Play | | |

Data: 70

File: \\Emc-966-2\\test data\\2019\\X\\XIN PU SLEM6 (72)

Date: 2019-12-10

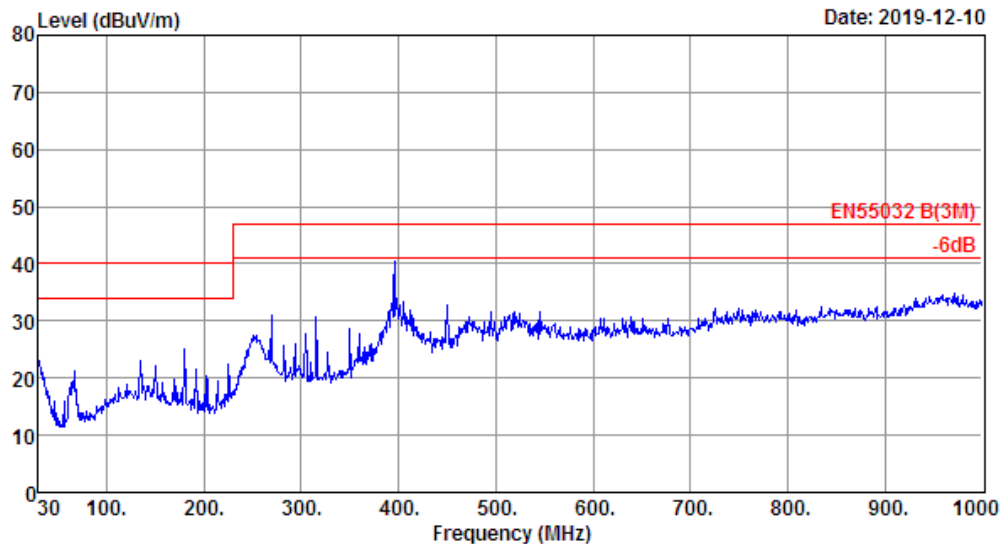


| | | | |
|-------------|---|-----------|--------------|
| Site no. | : 2# 966 chamber | Data no. | : 70 |
| Dis. / Ant. | : 3m 47018 | Ant. pol. | : HORIZONTAL |
| Limit | : EN55032 B(3M) | | |
| Env. / Ins. | : Temp:21.6°;Humi:51.5%;Press:101.52kPa | | |
| Engineer | : Frank | | |
| EUT | : Embedded Industrial Computer | | |
| Power | : DC 12V | | |
| M/N | : CS10600U070E | | |
| Test Mode | : USB Play | | |

Data: 71

File: \\Emc-966-2\\test data\\2019\\X\\XIN PU SLEM6 (72)

Date: 2019-12-10

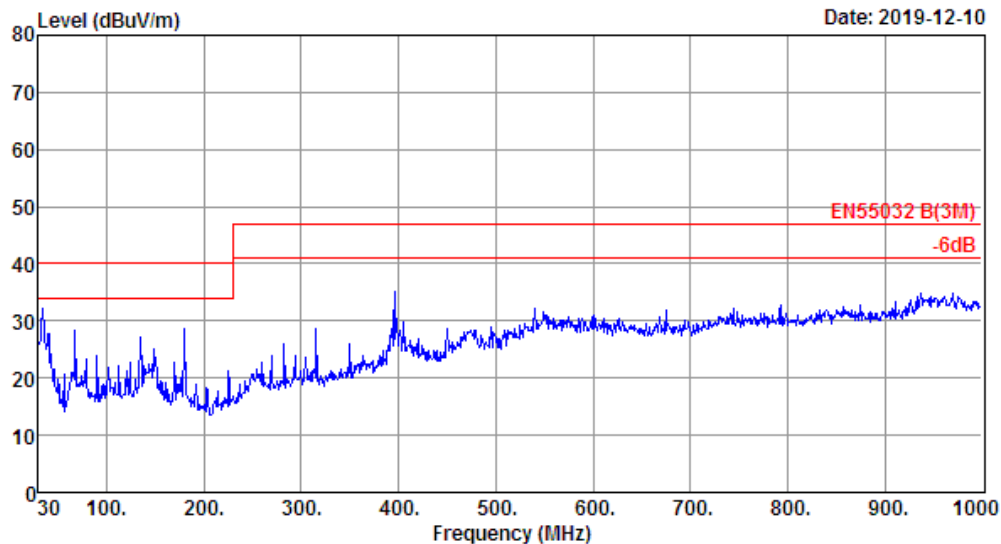


| | | | |
|-------------|---|-----------|--------------|
| Site no. | : 2# 966 chamber | Data no. | : 71 |
| Dis. / Ant. | : 3m 47018 | Ant. pol. | : HORIZONTAL |
| Limit | : EN55032 B(3M) | | |
| Env. / Ins. | : Temp:21.6°;Humi:51.5%;Press:101.52kPa | | |
| Engineer | : Frank | | |
| EUT | : Embedded Industrial Computer | | |
| Power | : DC 12V | | |
| M/N | : CS10600U070E | | |
| Test Mode | : LAN Mode | | |

Data: 72

File: \\Emc-966-2\\test data\\2019\\X\\XIN PU SLEM6 (72)

Date: 2019-12-10



| | | | |
|-------------|---|-----------|------------|
| Site no. | : 2# 966 chamber | Data no. | : 72 |
| Dis. / Ant. | : 3m 47018 | Ant. pol. | : VERTICAL |
| Limit | : EN55032 B(3M) | | |
| Env. / Ins. | : Temp:21.6°;Humi:51.5%;Press:101.52kPa | | |
| Engineer | : Frank | | |
| EUT | : Embedded Industrial Computer | | |
| Power | : DC 12V | | |
| M/N | : CS10600U070E | | |
| Test Mode | : LAN Mode | | |

4.3. Radiated Emission Test (above 1GHz)

RESULT : **Pass**
Test procedure : EN 55032:2015
Frequency range : 1GHz-18GHz
Test Site : 966 Chamber
Limits : EN 55032:2015 Class B

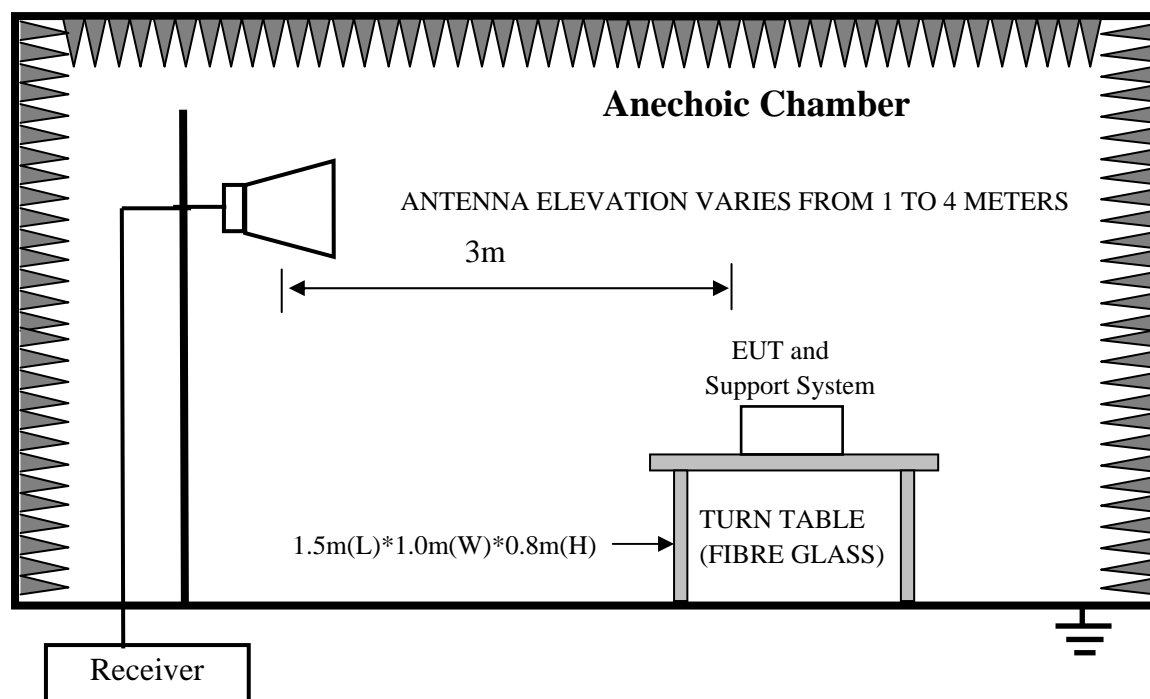
Test Setup

Date of test : Dec. 11, 2019
Model No. : CS10600U070E, CS10600U070P
Input Voltage : DC 12V
Operation Mode : LAN Mode, USB Play, TF Play

The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m away from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector from the spectrum, and all the final readings from the test receiver were measured with the Quasi-Peak detector.

The bandwidth setting on the test receiver was 1MHz(above 1GHz).

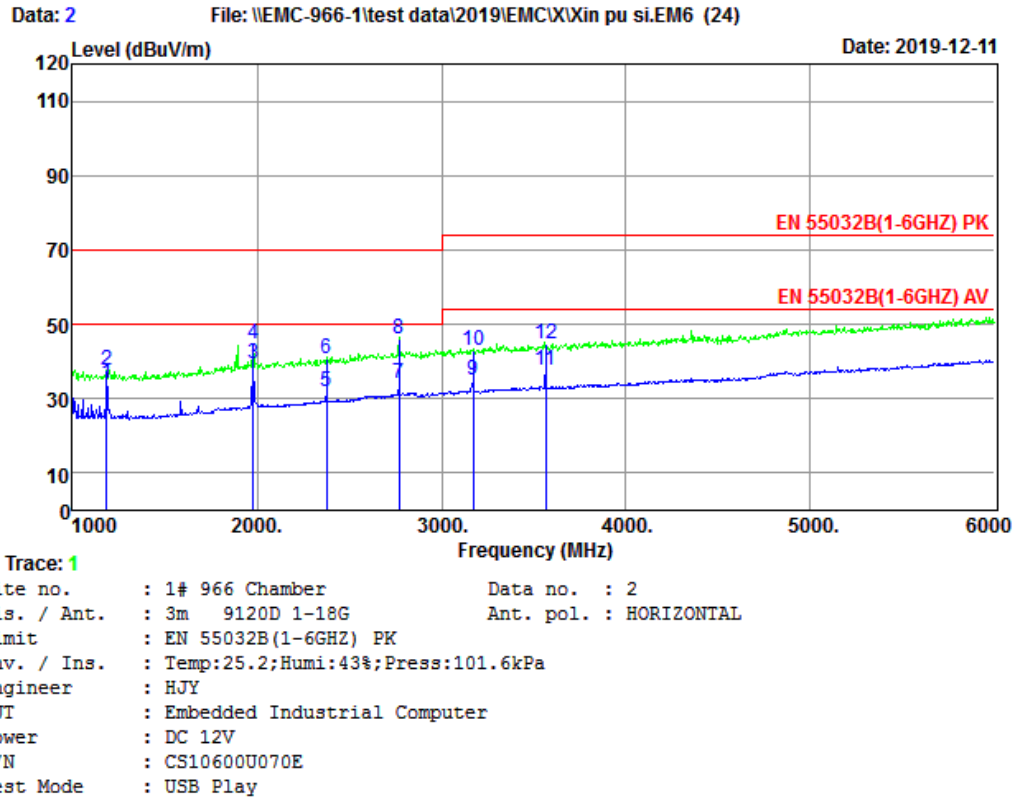


Note: Test uncertainty: $\pm 4.72\text{dB}$ at a level of confidence of 95%.

Test Data

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878



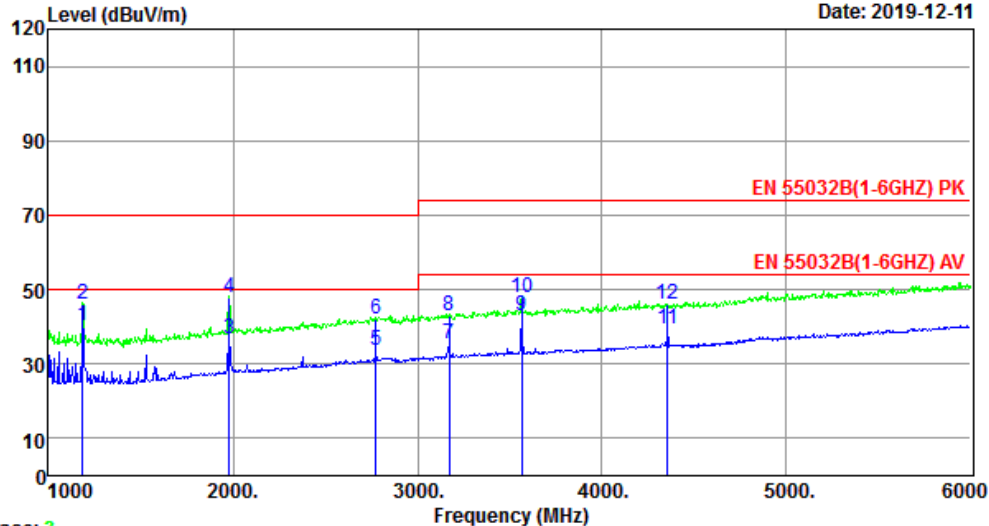
| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuA) | Emission Level (dBuA/m) | Limit (dBuA/m) | Margin (dB) | Remark |
|----|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|---------|
| 1 | 1185.00 | 24.76 | 1.08 | 8.39 | 34.23 | 50.00 | 15.77 | Average |
| 2 | 1185.00 | 24.76 | 1.08 | 12.00 | 37.84 | 70.00 | 32.16 | Peak |
| 3 | 1980.00 | 26.62 | 1.28 | 11.38 | 39.28 | 50.00 | 10.72 | Average |
| 4 | 1980.00 | 26.62 | 1.28 | 17.01 | 44.91 | 70.00 | 25.09 | Peak |
| 5 | 2375.00 | 27.23 | 1.44 | 3.33 | 32.00 | 50.00 | 18.00 | Average |
| 6 | 2375.00 | 27.23 | 1.44 | 12.00 | 40.67 | 70.00 | 29.33 | Peak |
| 7 | 2770.00 | 28.04 | 1.86 | 4.41 | 34.31 | 50.00 | 15.69 | Average |
| 8 | 2770.00 | 28.04 | 1.86 | 16.00 | 45.90 | 70.00 | 24.10 | Peak |
| 9 | 3170.00 | 28.70 | 2.43 | 4.04 | 35.17 | 54.00 | 18.83 | Average |
| 10 | 3170.00 | 28.70 | 2.43 | 12.00 | 43.13 | 74.00 | 30.87 | Peak |
| 11 | 3565.00 | 29.02 | 2.89 | 5.70 | 37.61 | 54.00 | 16.39 | Average |
| 12 | 3565.00 | 29.02 | 2.89 | 13.01 | 44.92 | 74.00 | 29.08 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Data: 4

File: \\EMC-966-1\test data\2019\EMC\Xin pu si.EM6 (24)

Date: 2019-12-11



Trace: 3

Site no. : 1# 966 Chamber Data no. : 4
 Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
 Limit : EN 55032B(1-6GHZ) PK
 Env. / Ins. : Temp:25.2;Humi:43%;Press:101.6kPa
 Engineer : HJY
 EUT : Embedded Industrial Computer
 Power : DC 12V
 M/N : CS10600U070E
 Test Mode : USB Play

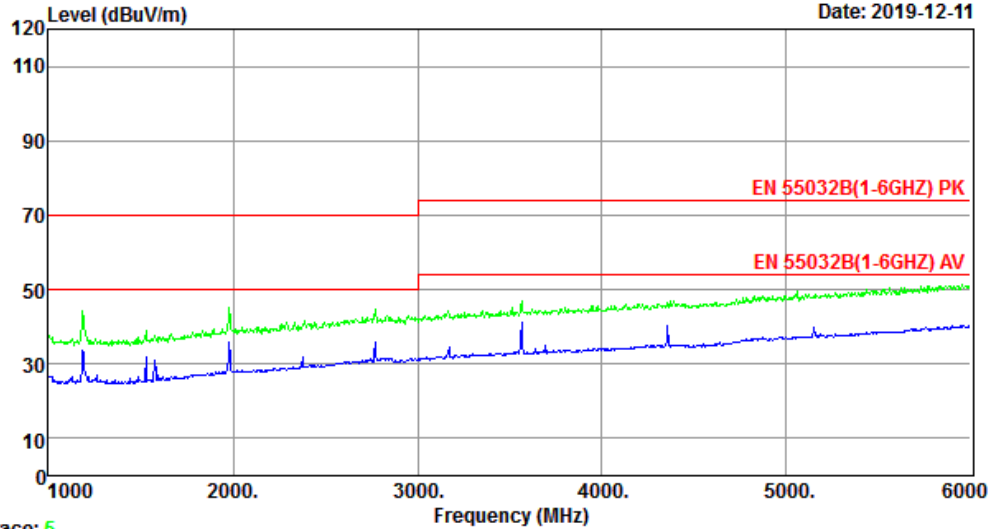
| | Freq. (MHz) | ANT Factor (dB/m) | Cable Loss (dB) | Reading (dBuA) | Emission Level (dBuA/m) | Limit (dBuA/m) | Margin (dB) | Remark |
|----|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|---------|
| 1 | 1185.00 | 24.76 | 1.08 | 14.40 | 40.24 | 50.00 | 9.76 | Average |
| 2 | 1185.00 | 24.76 | 1.08 | 20.00 | 45.84 | 70.00 | 24.16 | Peak |
| 3 | 1980.00 | 26.62 | 1.28 | 8.89 | 36.79 | 50.00 | 13.21 | Average |
| 4 | 1980.00 | 26.62 | 1.28 | 20.01 | 47.91 | 70.00 | 22.09 | Peak |
| 5 | 2775.00 | 28.04 | 1.86 | 3.74 | 33.64 | 50.00 | 16.36 | Average |
| 6 | 2775.00 | 28.04 | 1.86 | 12.00 | 41.90 | 70.00 | 28.10 | Peak |
| 7 | 3170.00 | 28.70 | 2.43 | 4.12 | 35.25 | 54.00 | 18.75 | Average |
| 8 | 3170.00 | 28.70 | 2.43 | 12.00 | 43.13 | 74.00 | 30.87 | Peak |
| 9 | 3565.00 | 29.02 | 2.89 | 11.16 | 43.07 | 54.00 | 10.93 | Average |
| 10 | 3565.00 | 29.02 | 2.89 | 16.01 | 47.92 | 74.00 | 26.08 | Peak |
| 11 | 4355.00 | 29.94 | 2.96 | 6.67 | 39.57 | 54.00 | 14.43 | Average |
| 12 | 4355.00 | 29.94 | 2.96 | 13.00 | 45.90 | 74.00 | 28.10 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 6

File: \\EMC-966-1\\test data\\2019\\EMC\\Xin pu si.EM6 (24)

Date: 2019-12-11



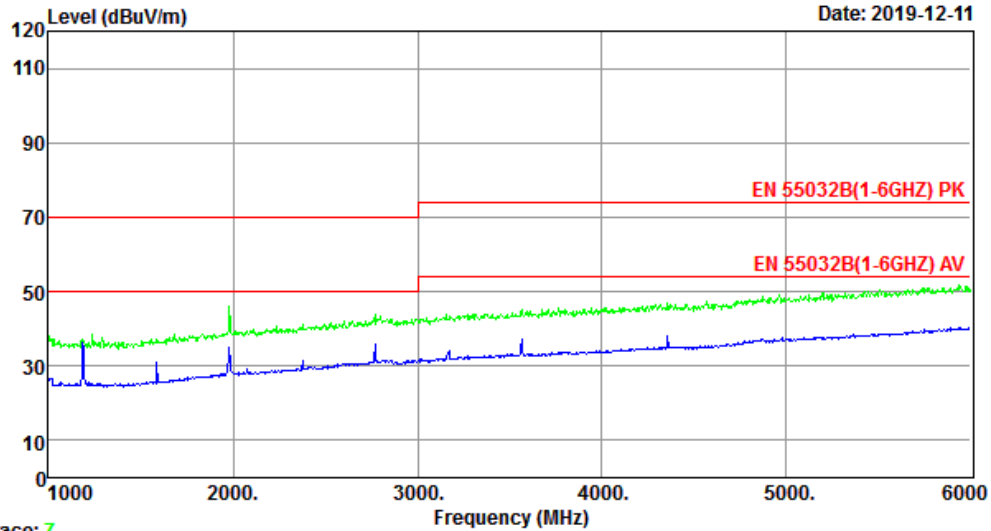
Trace: 5

| | | | |
|-------------|-------------------------------------|-----------|------------|
| Site no. | : 1# 966 Chamber | Data no. | : 6 |
| Dis. / Ant. | : 3m 9120D 1-18G | Ant. pol. | : VERTICAL |
| Limit | : EN 55032B(1-6GHZ) PK | | |
| Env. / Ins. | : Temp:25.2;Humi:43%;Press:101.6kPa | | |
| Engineer | : HJY | | |
| EUT | : Embedded Industrial Computer | | |
| Power | : DC 12V | | |
| M/N | : CS10600U070E | | |
| Test Mode | : TF Play | | |

Data: 8

File: \\EMC-966-1\\test data\\2019\\EMC\\X\\Xin pu si.EM6 (24)

Date: 2019-12-11



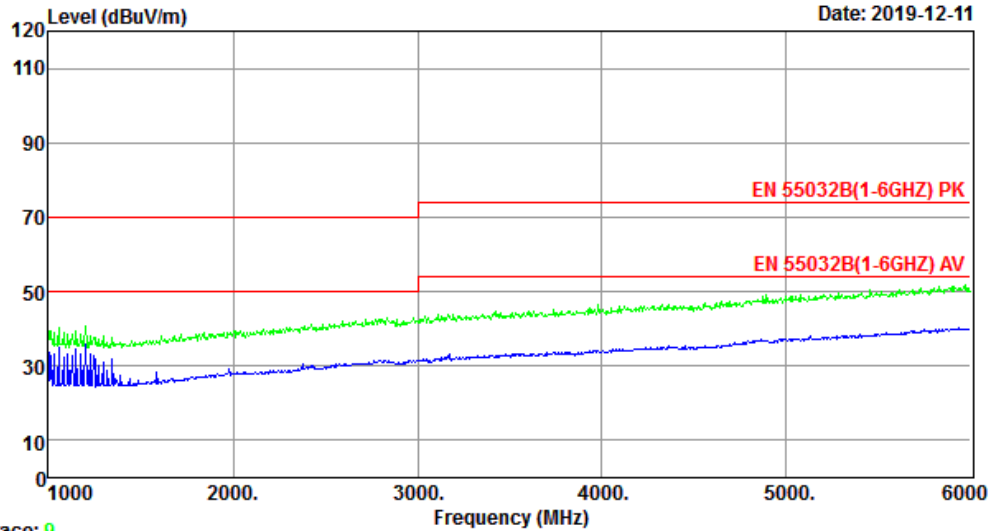
Trace: 7

Site no. : 1# 966 Chamber Data no. : 8
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : EN 55032B(1-6GHZ) PK
Env. / Ins. : Temp:25.2;Humi:43%;Press:101.6kPa
Engineer : HJY
EUT : Embedded Industrial Computer
Power : DC 12V
M/N : CS10600U070E
Test Mode : TF Play

Data: 10

File: \\EMC-966-1\\test data\\2019\\EMC\\Xin pu si.EM6 (24)

Date: 2019-12-11



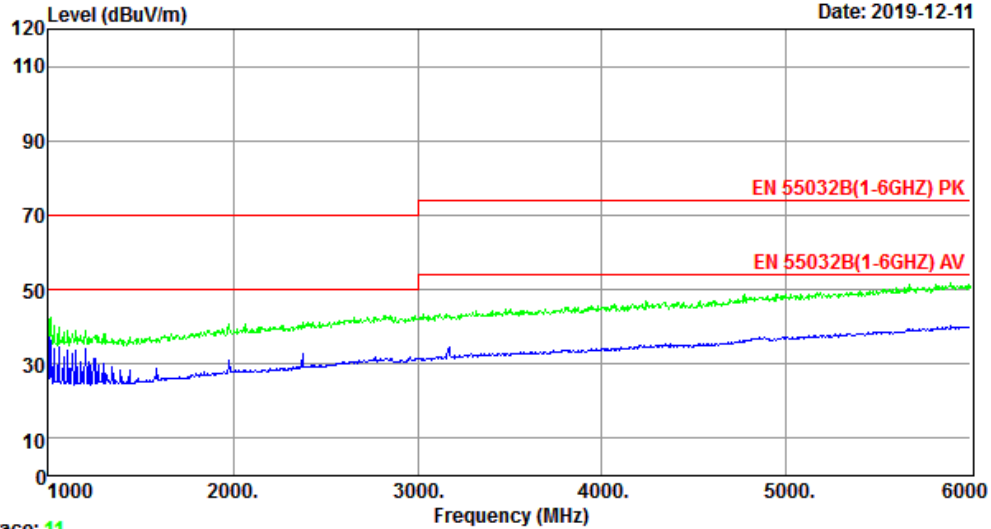
Trace: 9

Site no. : 1# 966 Chamber Data no. : 10
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : EN 55032B(1-6GHZ) PK
Env. / Ins. : Temp:25.2;Humi:43%;Press:101.6kPa
Engineer : HJY
EUT : Embedded Industrial Computer
Power : DC 12V
M/N : CS10600U070E
Test Mode : LAN Mode

Data: 12

File: \\EMC-966-1\\test data\\2019\\EMC\\Xin pu si.EM6 (24)

Date: 2019-12-11



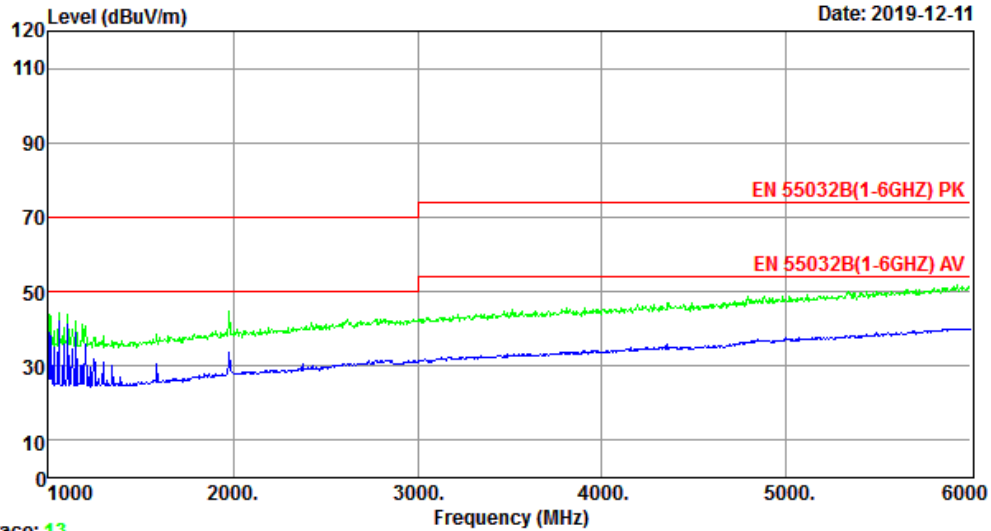
Trace: 11

Site no. : 1# 966 Chamber Data no. : 12
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : EN 55032B(1-6GHZ) PK
Env. / Ins. : Temp:25.2;Humi:43%;Press:101.6kPa
Engineer : HJY
EUT : Embedded Industrial Computer
Power : DC 12V
M/N : CS10600U070E
Test Mode : LAN Mode

Data: 14

File: \\EMC-966-1\\test data\\2019\\EMC\\Xin pu si.EM6 (24)

Date: 2019-12-11



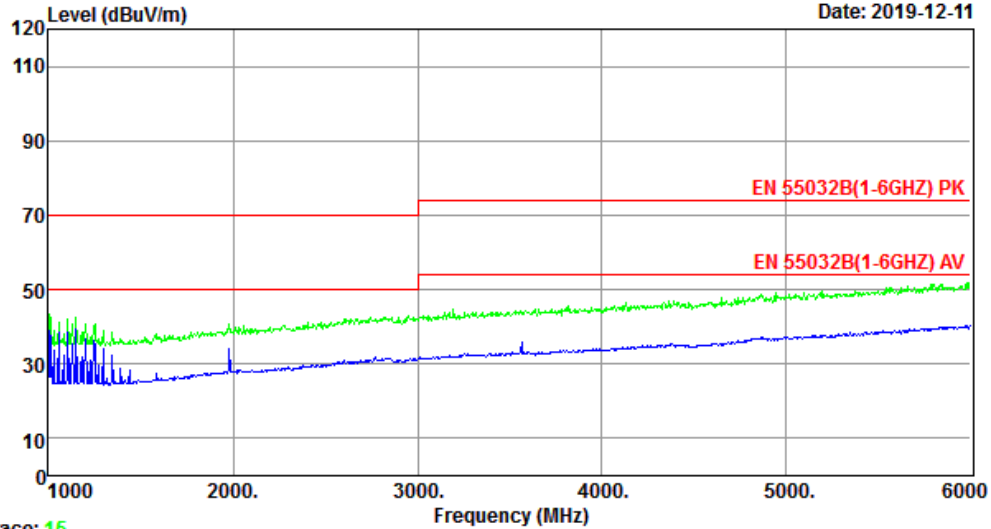
Trace: 13

Site no. : 1# 966 Chamber Data no. : 14
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : EN 55032B(1-6GHZ) PK
Env. / Ins. : Temp:25.2;Humi:43%;Press:101.6kPa
Engineer : HJY
EUT : Embedded Industrial Computer
Power : DC 12V
M/N : CS10600U070P
Test Mode : TF Play

Data: 16

File: \\EMC-966-1\\test data\\2019\\EMC\\Xin pu si.EM6 (24)

Date: 2019-12-11

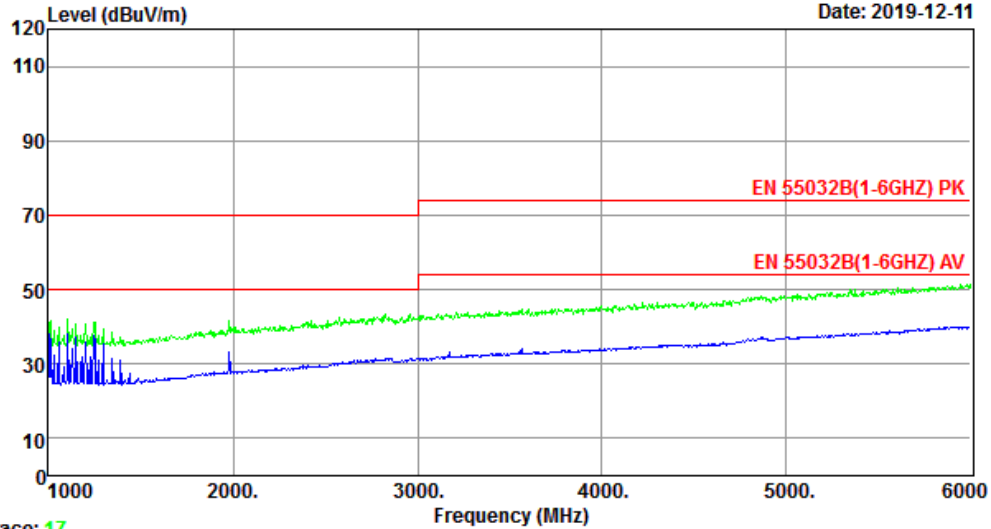


Site no. : 1# 966 Chamber Data no. : 16
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : EN 55032B(1-6GHZ) PK
Env. / Ins. : Temp:25.2;Humi:43%;Press:101.6kPa
Engineer : HJY
EUT : Embedded Industrial Computer
Power : DC 12V
M/N : CS10600U070P
Test Mode : TF Play

Data: 18

File: \\EMC-966-1\\test data\\2019\\EMC\\Xin pu si.EM6 (24)

Date: 2019-12-11



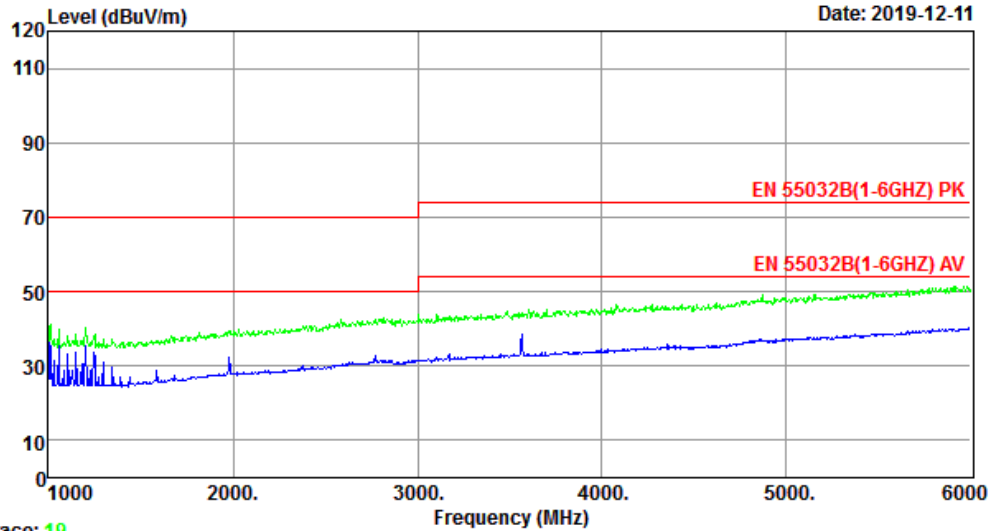
Trace: 17

Site no. : 1# 966 Chamber Data no. : 18
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : EN 55032B(1-6GHZ) PK
Env. / Ins. : Temp:25.2;Humi:43%;Press:101.6kPa
Engineer : HJY
EUT : Embedded Industrial Computer
Power : DC 12V
M/N : CS10600U070P
Test Mode : USB Play

Data: 20

File: \\EMC-966-1\\test data\\2019\\EMC\\Xin pu si.EM6 (24)

Date: 2019-12-11



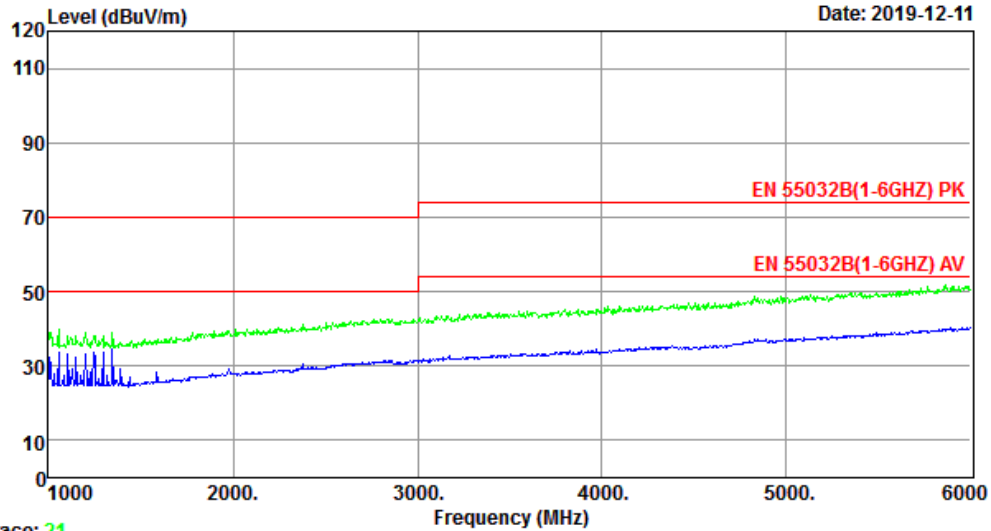
Trace: 19

Site no. : 1# 966 Chamber Data no. : 20
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : VERTICAL
Limit : EN 55032B(1-6GHZ) PK
Env. / Ins. : Temp:25.2;Humi:43%;Press:101.6kPa
Engineer : HJY
EUT : Embedded Industrial Computer
Power : DC 12V
M/N : CS10600U070P
Test Mode : USB Play

Data: 22

File: \\EMC-966-1\\test data\\2019\\EMC\\Xin pu si.EM6 (24)

Date: 2019-12-11



Trace: 21

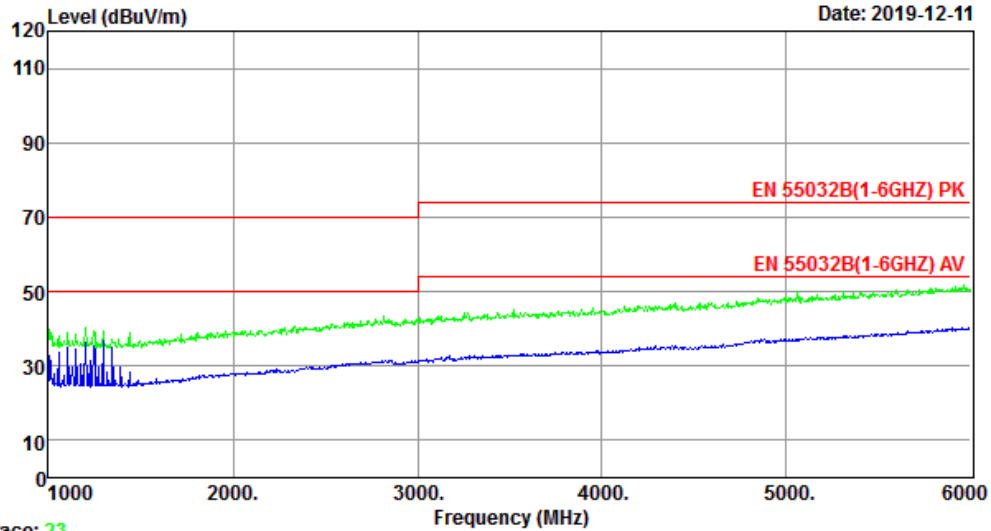
Site no. : 1# 966 Chamber
Dis. / Ant. : 3m 9120D 1-18G
Limit : EN 55032B(1-6GHZ) PK
Env. / Ins. : Temp:25.2;Humi:43%;Press:101.6kPa
Engineer : HJY
EUT : Embedded Industrial Computer
Power : DC 12V
M/N : CS10600U070P
Test Mode : LAN Mode

Data no. : 22
Ant. pol. : VERTICAL

Data: 24

File: \\EMC-966-1\\test data\\2019\\EMC\\Xin pu si.EM6 (24)

Date: 2019-12-11



Trace: 23

Site no. : 1# 966 Chamber Data no. : 24
Dis. / Ant. : 3m 9120D 1-18G Ant. pol. : HORIZONTAL
Limit : EN 55032B(1-6GHZ) PK
Env. / Ins. : Temp:25.2;Humi:43%;Press:101.6kPa
Engineer : HJY
EUT : Embedded Industrial Computer
Power : DC 12V
M/N : CS10600U070P
Test Mode : LAN Mode

5. IMMUNITY TEST RESULT

5.1. Description of Performance Criteria:

Performance criteria A

The equipment shall continue to operate as intended without operator intervention. No degradation of performance, loss of function or change of operating state is allowed below a performance level specified by the manufacturer when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

For audio output device: The measured acoustic interference ratio and/or the measured electrical interference during the test shall be -20dB or better(see note1)

Performance criteria B

During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test.

After the test, the equipment shall continue to operate as intended without operator intervention; no degradation of performance or loss of function is allowed, below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance.

If the minimum performance level (or the permissible performance loss), or recovery time, is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criteria C

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A reboot or re-start operation is allowed.

Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

Note 1: This performance criterion only using for Continuous inducted RF disturbances and Continuous RF electromagnetic field disturbances item.

5.2. Electrostatic Discharge Immunity Test

RESULT : **Pass**

Test procedure : EN 55035:2017

Basic standard : EN 61000-4-2:2009

Test specification : +/-4.0kV(Contact discharge)
+/-8.0kV(Air discharge)

Number of discharges : ≥ 10 (Air discharge for single polarity discharge)
 ≥ 10 (Contact discharge for single polarity discharge)

Polarity : Positive/Negative

Performance criterion : B

Test Setup

Date of test : Dec. 16, 2019

Model No. : CS10600U070P

Input Voltage : DC 12V

Operation Mode : USB Play, TF Play, LAN Mode

Temperature : 23.2°C

Humidity : 49%

Pressure : 101.10kPa

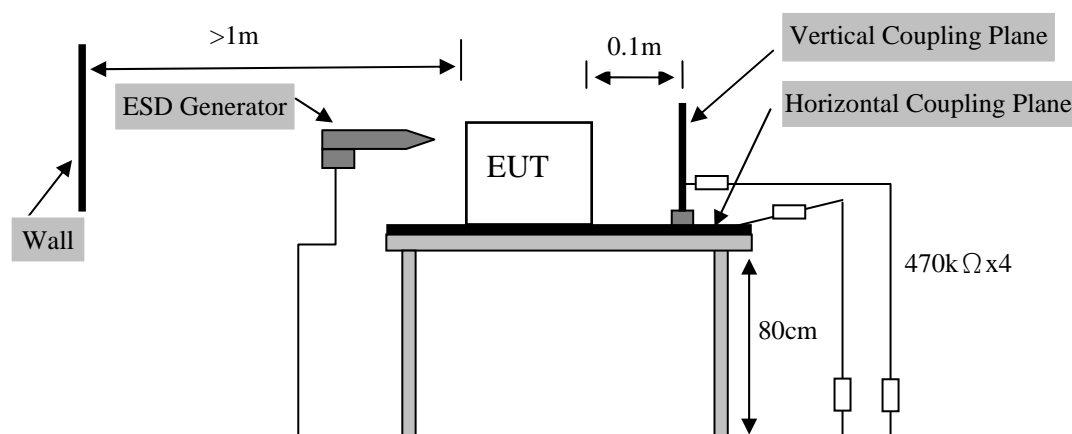


Table 1: Electrostatic Discharge Immunity Test Result

| Discharge Location | | Type of discharge | Result |
|--------------------|----------|-------------------|--------|
| HCP | 4 points | Contact | Pass |
| VCP | 4 points | Contact | Pass |
| USB Port | 2 points | Contact | Pass |
| LAN Port | 1 point | Contact | Pass |
| TF Port | 1 point | Air | Pass |
| AUX IN Port | 2 points | Contact | Pass |
| Slot | 4 points | Air | Pass |
| Metal decking | 1 point | Contact | Pass |
| Screen | 1 point | Air | Pass |
| Screw | 4 points | Contact | Pass |

*Remark: 1. The screen was flashing during the test, but self-recoverable after the test
2. Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).*

5.3. Radio Frequency Electromagnetic Field Immunity(R/S) Test

RESULT : **Pass**
Test procedure : EN 55035:2017
Basic standard : EN 61000-4-3:2006+A1:2008+A2:2010
Frequency Range : 80-1000MHz,1800MHz, 2600MHz, 3500MHz, 5000MHz
Performance criterion : A
Test site : 866 Chamber

Test Setup

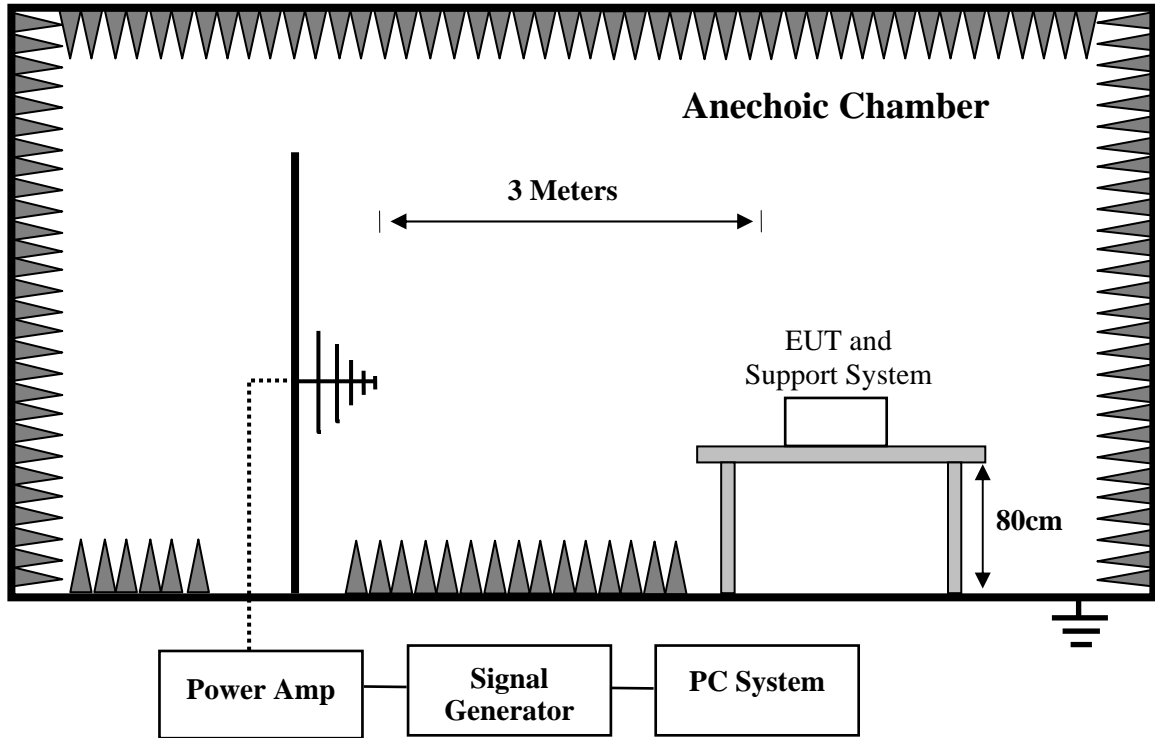
Date of test : Dec. 16, 2019
Model No. : CS10600U070E, CS10600U070P
Input Voltage : DC 12V
Operation Mode : USB Play, TF Play, LAN Mode
Temperature : 23.2°C
Humidity : 49.1%
Pressure : 101.10kPa

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The EUT was set 3 m away from the transmitting antenna which was mounted on an antenna tower. Both horizontal and vertical polarization of the antenna were set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a CCD camera was used to monitor EUT screen.

All the scanning conditions were as follows:

| Condition of Test | Remarks |
|------------------------------|--------------------------|
| 1. Field Strength | 3 V/m (Severity Level 2) |
| 2. Radiated Signal | Modulated |
| 3. Scanning Frequency | 80 - 1000 MHz |
| 4. Sweeping time of radiated | 0.0015 decade/s |
| 5. Dwell Time | at least 3 seconds |



| Condition of Test | Remarks |
|------------------------------|---------------------------------|
| 6. Field Strength | 3 V/m (Severity Level 2) |
| 7. Radiated Signal | Modulated |
| 8. Scanning Frequency | 1800MHz,2600MHz,3500MHz,5000MHz |
| 9. Sweeping time of radiated | 0.0015 decade/s |
| 10. Dwell Time | at least 3 seconds |

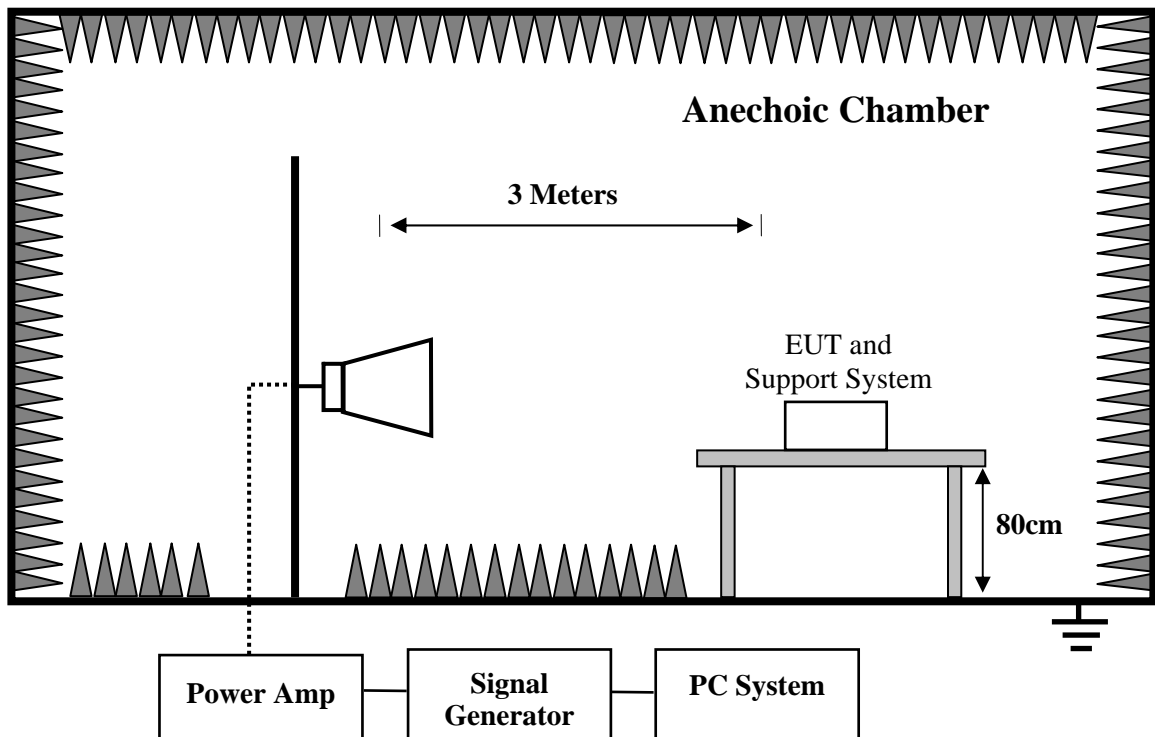


Table 2: Radio Frequency Electromagnetic Field Immunity Test Result

| Field Strength (V/m) | Test Frequency (MHz) | Test mode | Polarization of antenna | Reference Level | Audio output | Limit | Interference Ratio (worst case) |
|----------------------|--|------------------------------------|-------------------------|-----------------|--------------|-----------------|---------------------------------|
| 3 | 80-1000MHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz | USB Play TF Play LAN Mode | H | 75dBSPL | Speaker | \leq -20dB | -35 dB |
| | | | V | 75dBSPL | Speaker | | -39 dB |

5.4. Power Frequency Magnetic Field Immunity Test

RESULT : **Pass**
Test procedure : EN 55035:2017
Basic standard : EN 61000-4-8:2010
Test specification : 1 A/m
Performance criterion : A

Test Setup

Date of test : Dec. 16, 2019
Model No. : CS10600U070E, CS10600U070P
Input Voltage : DC 12V
Operation Mode : USB Play, TF Play, LAN Mode
Temperature : 23.2°C
Humidity : 49%
Pressure : 101.10kPa

The EUT was subjected to the test magnetic field by using the induction coil of standard dimensions (1m*1m). The induction coil then was rotated by 90° in order to expose the EUT to the test field with different orientations.

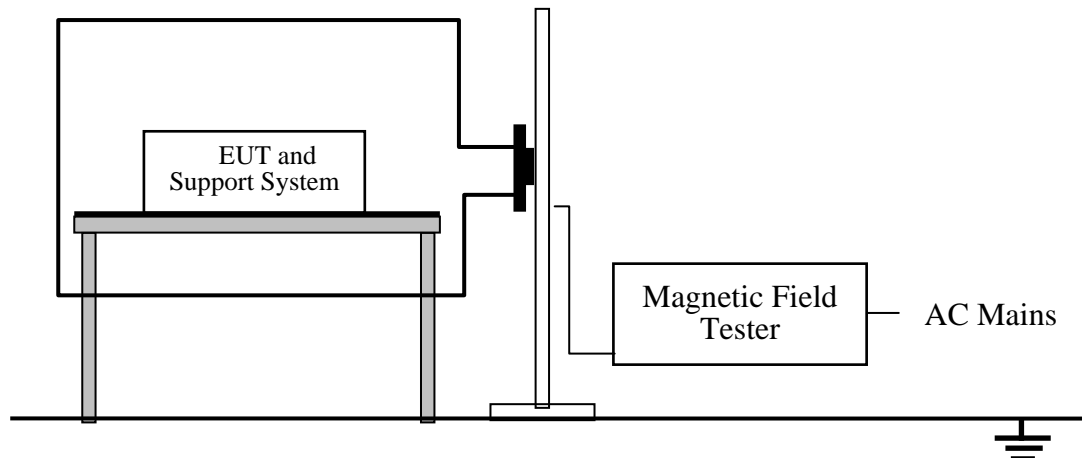


Table 3: Power Frequency Magnetic Field Immunity Test Result

| Test Level | Testing Duration | Coil Orientation | Criterion | Result |
|------------|------------------|------------------|-----------|--------|
| 1A/m | 5 mins | X | A | Pass |
| 1A/m | 5 mins | Y | A | Pass |
| 1A/m | 5 mins | Z | A | Pass |

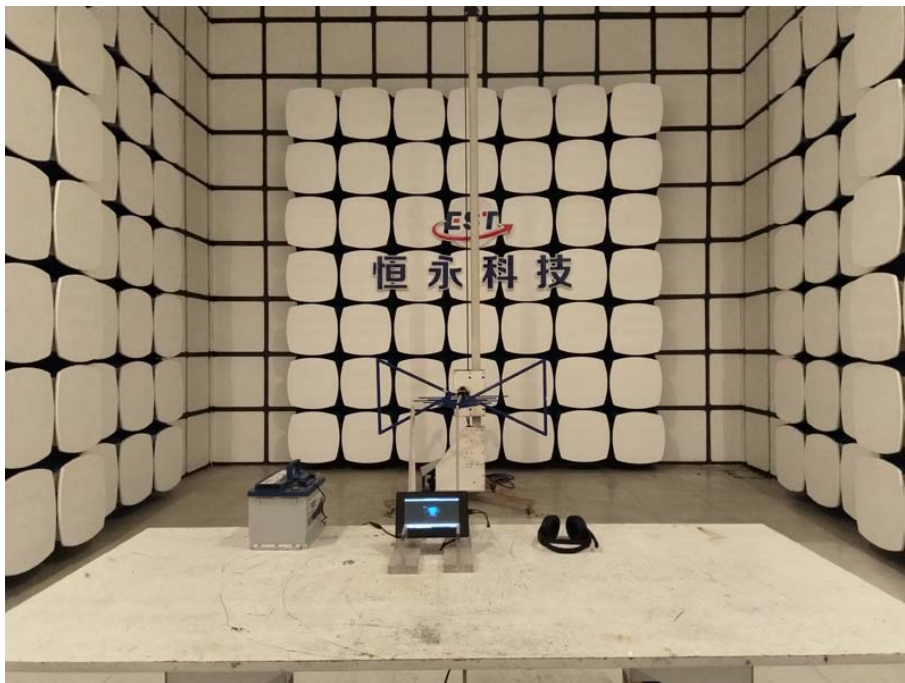
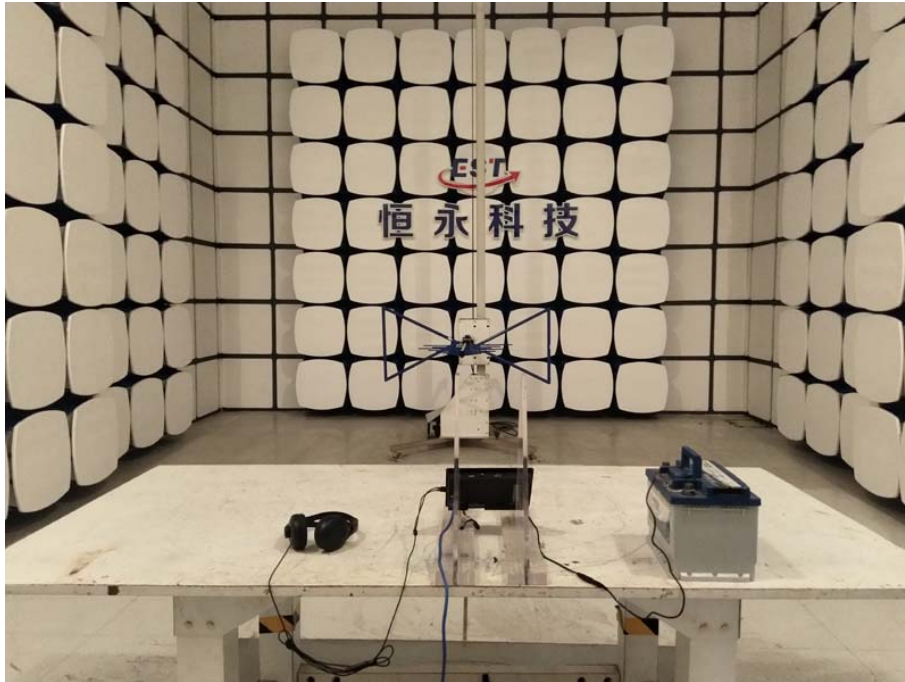
Remark: There was no change compared with initial operation during the test

6. PHOTOGRAPHS OF TEST SET-UP

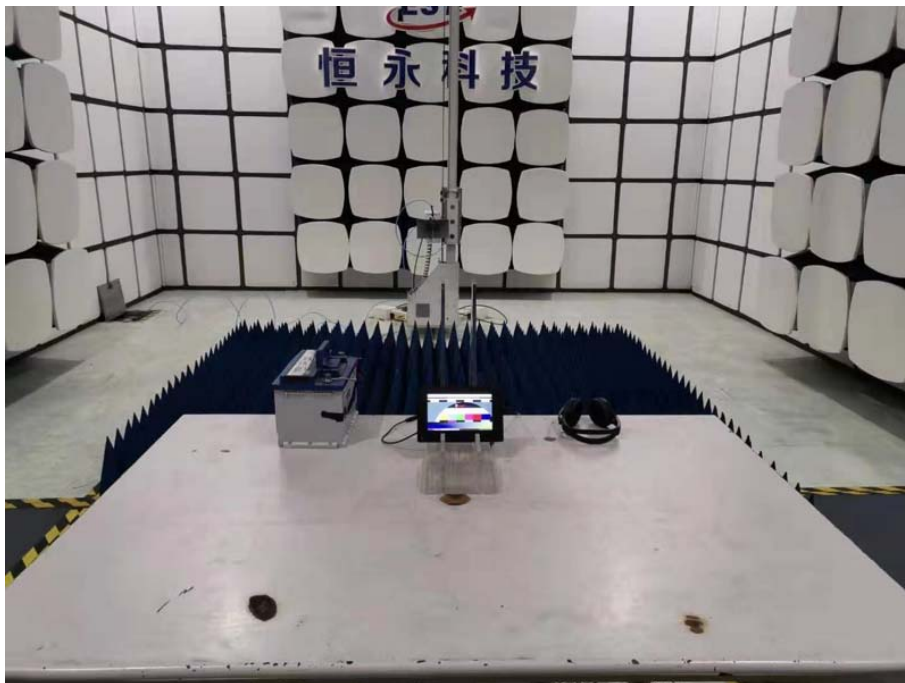
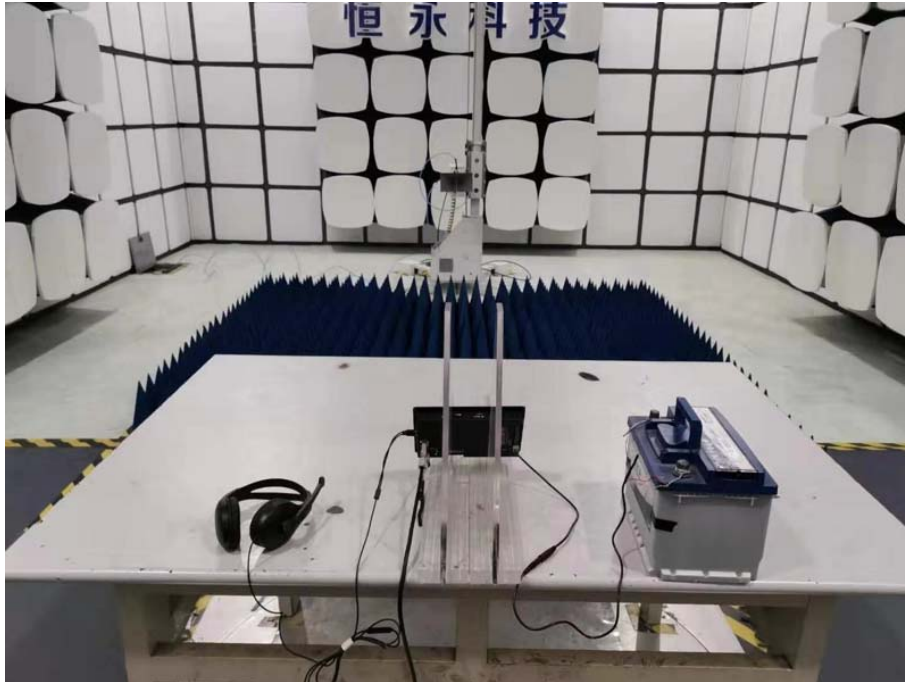
6.1.Set-up for Asymmetric mode conducted emissions test



6.2.Set-up for Radiated Emission Test(30MHz-1000MHz)



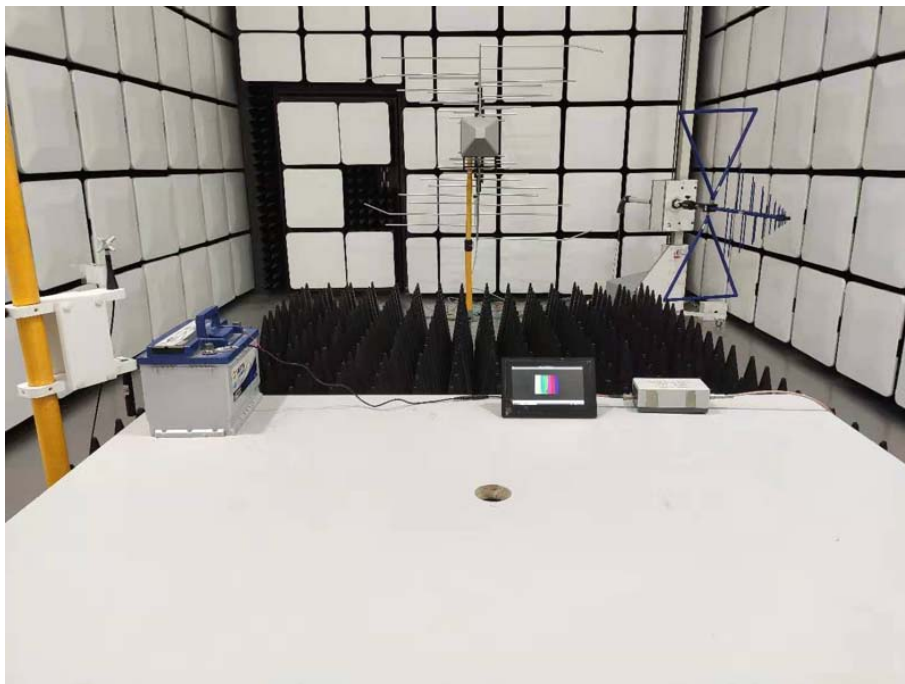
6.3.Set-up for Radiated Emission Test(above 1GHz)



6.4.Set-up for Electrostatic Discharge Immunity Test



6.5.Set-up for Radio Frequency Electromagnetic Field Immunity Test



6.6.Set-up for Power Frequency Magnetic Field Immunity Test



7. PHOTOGRAPHS OF THE EUT

M/N: CS10600U070P

Figure 1
General Appearance of the EUT



Figure 2
General Appearance of the EUT

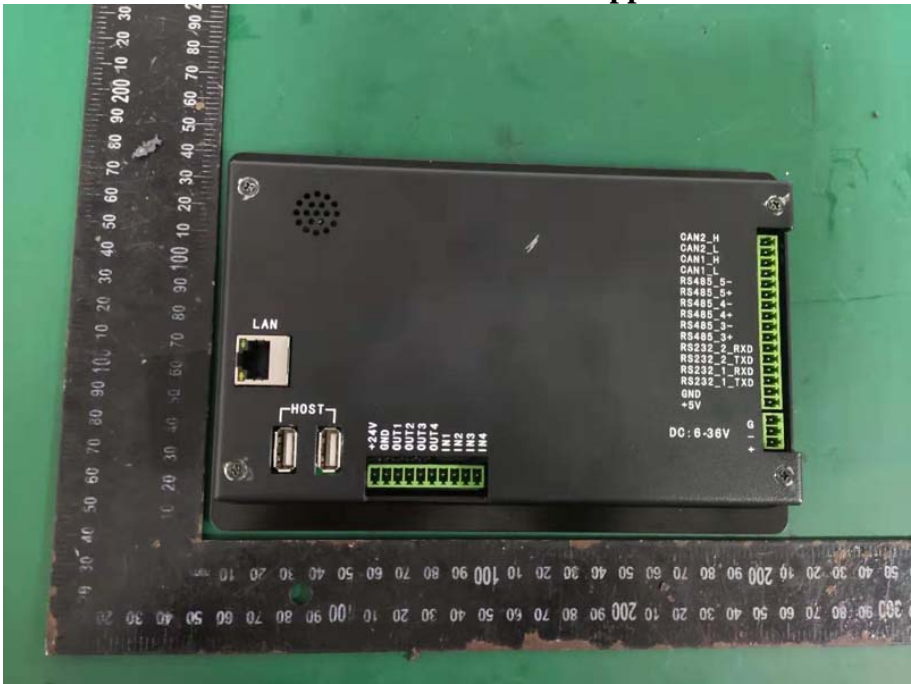


Figure 3
Inside View of the EUT



Figure 4
Inside View of the EUT



Figure 5
Inside View of the EUT



Figure 6
Inside View of the EUT

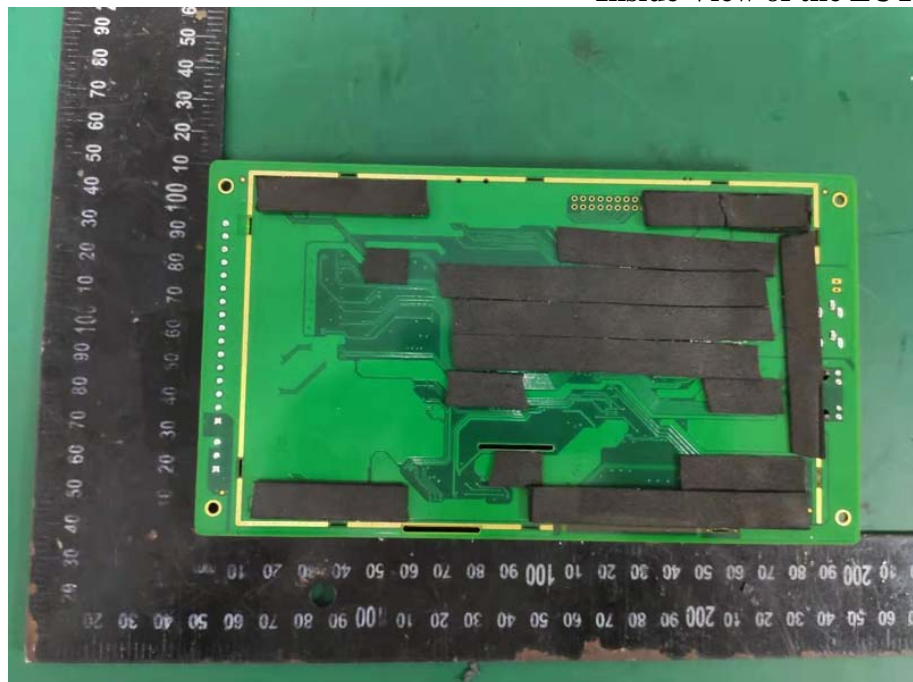
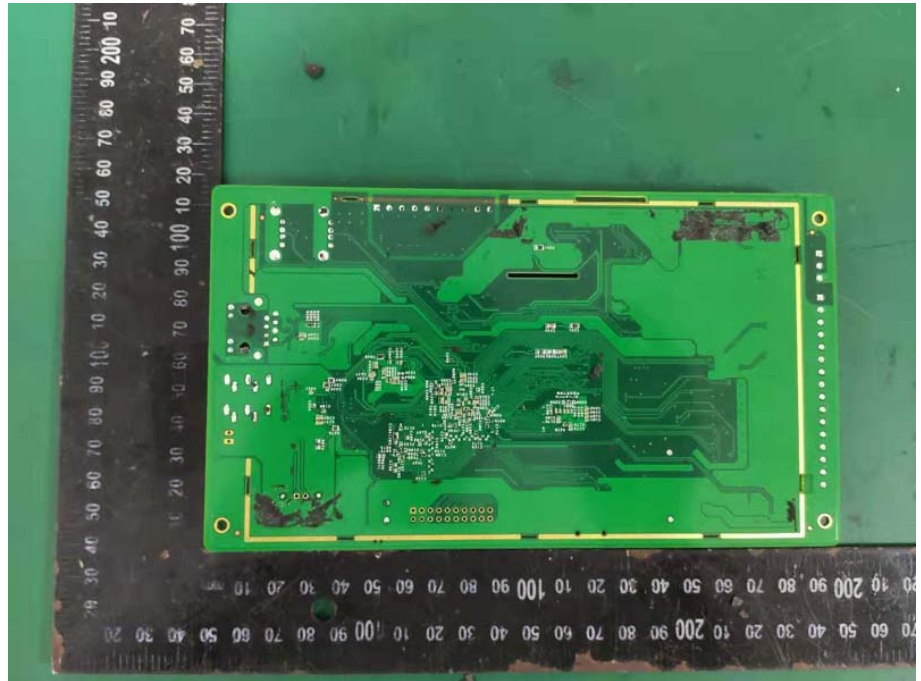


Figure 7
Inside View of the EUT



M/N: CS10600U070E

Figure 8

General Appearance of the EUT



Figure 9

Inside View of the EUT



Figure 10
Inside View of the EUT



Figure 11
Inside View of the EUT



Figure 12
Inside View of the EUT

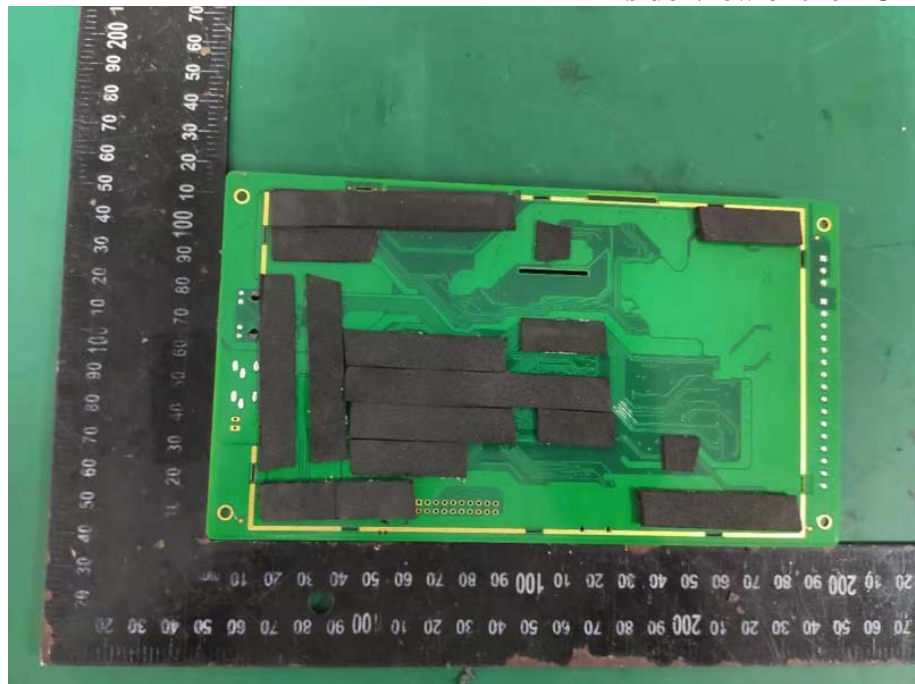


Figure 13
Inside View of the EUT



End of Test Report