

| TEST REPORT | |
|--|---|
| ETSI EN 301 489-1 V2.2.3 (2019-11) | |
| ETSI EN 301 489-17 V3.2.4 (2020-09) | |
| EN 55032:2015+A11:2020+A1:2020/ EN 55035: 2017+A11: 2020 | |
| Report Reference No..... | E01A23030814E000401 |
| Compiled by (position+printed name+signature)... | Test Engineer Sunshine |
| Supervised by (position+printed name+signature)... | Engineer Duke Liu |
| Approved by (position+printed name+signature)... | Supervisor Tiger Xu |
| Date of issue..... | April 17, 2023 |
| Representative Laboratory Name .. | Dong Guan Anci Electronic Technology Co., Ltd. |
| Address | 1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan, Lake Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr., China. |
| Applicant's name | Guangdong SID Technology Co., Ltd. |
| Address | Room 101, Building 5, No. 21, Dongke Road, Dongcheng Street, Dongguan City, Guangdong Province. |
| Test specification | ETSI EN 301 489-1 V2.2.3 (2019-11)/ETSI EN 301 489-17 V3.2.4 (2020-09)/ EN 55032:2015+A11:2020+A1:2020/ EN 55035: 2017+A11: 2020 |
| Standard | ETSI EN 301 489-1 V2.2.3 (2019-11)/ETSI EN 301 489-17 V3.2.4 (2020-09)/ EN 55032:2015+A11:2020+A1:2020/ EN 55035: 2017+A11: 2020 |
| TRF Originator | GTG |
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| Test item description | Bind Price tag |
| Trade Mark | N/A |
| Model/Type reference..... | SID-ESL-44A |
| List Model | SID-ESL-0xA (x=1, 2, 3, 4, 6, ..., 100) |
| Hardware version | V1.0 |
| Software version..... | V1.0 |
| Ratings | Battery 3V CR2025*2 |
| Result..... | PASS |

TEST REPORT

| | | |
|--------------------------|---------------------------|----------------|
| Test Report No. : | E01A23030814E00301 | April 17, 2023 |
| | | Date of issue |

Equipment under Test : Bind Price tag

Model /Type : SID-ESL-44A

Listed Models : SID-ESL-0xA (x=1, 2, 3, 4, 6, ..., 100)

Applicant : **Guangdong SID Technology Co., Ltd.**

Address : Room 101, Building 5, No. 21, Dongke Road, Dongcheng Street, Dongguan City, Guangdong Province.

Manufacturer : **Guangdong SID Technology Co., Ltd.**

Address : Room 101, Building 5, No. 21, Dongke Road, Dongcheng Street, Dongguan City, Guangdong Province.

| | |
|--------------------|-------------|
| Test Result | PASS |
|--------------------|-------------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

[ETSI EN 301 489-1 V2.2.3 \(2019-11\)](#)—ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU

[ETSI EN 301 489-17 V3.2.4 \(2020-09\)](#)—ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

[EN 55032:2015+A11:2020+A1:2020](#) Electromagnetic compatibility of multimedia equipment - Emission Requirements

[EN 55035: 2017+A11: 2020](#) Electromagnetic compatibility of multimedia equipment - Immunity Requirements

2. SUMMARY

2.1. General Remarks

| | | |
|--------------------------------|---|----------------|
| Date of receipt of test sample | : | March 29, 2023 |
| | | |
| Testing commenced on | : | March 29, 2023 |
| | | |
| Testing concluded on | : | April 08, 2023 |

2.2. Product Description

| | |
|-----------------------|---|
| Product Name: | Bind Price tag |
| Trade Mark: | N/A |
| Model/Type reference: | SID-ESL-44A |
| List Model: | SID-ESL-0xA (x=1, 2, 3, 4, 6, ..., 100) |
| Power supply: | Battery 3V CR2025*2 |

| SRD | |
|---------------------------|---------------------|
| Operating Mode: | Normal Operation |
| Modulation: | GFSK |
| Frequency Range: | 2400~2483.5 |
| Number of Channels: | 40 Channels |
| Channel space | 1 MHz |
| Antenna: | PCB antenna |
| Antenna Gain: | 0.5dBi |
| Power supply: | Battery 3V CR2025*2 |
| Temperature Range: | 0°C ~ 40°C |
| Product software version: | V1.0 |
| Product hardware version: | V1.0 |

Note: All models are the same except for the appearance and color, we choose model: L1 to do all the tests.

2.3. EUT operation mode

| Test mode | 2.4G RFID |
|-----------|-----------|
| 1 | ■ |

Note:

1. ■ is operation mode.
2. Pre-scan above all test mode, found below test mode which it was worse case mode.

| Test item | Test mode (Worse case mode) |
|--------------------|-----------------------------|
| Conducted emission | Mode 1 |
| Radiated emission | Mode 1 |
| EMS | Mode 1 |

2.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- ☐ - supplied by the manufacturer
- ☐ - supplied by the lab

| | | | |
|-----------------------|---------|---------------|-----|
| <input type="radio"/> | Adapter | M/N: | N/A |
| <input type="radio"/> | | Manufacturer: | N/A |

2.5. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Test Site 1:

Company name: Dongguan Anci Electronic Technology Co., Ltd.

Address: 1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan Lake
Hi-tech Industrial Development Zone, Dongguan City,
Guangdong Pr., China.

Test Site 2:

Company name: Guangdong Dongguan Quality Supervision Testing Center

Address: No.2 South Industry Road, Dongguan Songshan Lake
Sci.&Tech. Industrial Park, Guangdong Province, China

3.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

| | |
|---------------------|---------|
| Normal Temperature: | 25°C |
| Lative Humidity | 55 % |
| Air Pressure | 989 hPa |

3.3. Test Description

| Emission Measurement | | |
|-----------------------------------|---|------|
| Radiated Emission | ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09) EN 55032:2015+A11:2020+A1:2020 | PASS |
| Conducted Emission(AC Mains) | ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09) EN 55032:2015+A11:2020+A1:2020 | N/A |
| Harmonic Current Emissions | ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09) EN 61000-3-2: 2014 | N/A |
| Voltage Fluctuations and Flicker | ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09) EN 61000-3-3: 2013 | N/A |
| Immunity Measurement | | |
| Electrostatic Discharge | ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09) EN 55035: 2017+A11: 2020 | PASS |
| RF Electromagnetic Field | ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09) EN 55035: 2017+A11: 2020 | PASS |
| Fast Transients Common Mode | ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09) EN 55035: 2017+A11: 2020 | N/A |
| RF Common Mode 0,15 MHz to 80 MHz | ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09) EN 55035: 2017+A11: 2020 | N/A |
| Voltage Dips and Interruptions | ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09) EN 55035: 2017+A11: 2020 | N/A |
| Surges | ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-17 V3.2.4 (2020-09) EN 55035: 2017+A11: 2020 | N/A |

Remark: The measurement uncertainty is not included in the test result.

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“and is documented in the Dong Guan Anci Electronic Technology Co., Ltd. acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Dong Guan Anci Electronic Technology Co., Ltd. for Products Quality is reported:

| Test | Range | Measurement Uncertainty | Notes |
|-----------------------|------------|-------------------------|-------|
| Radiated Emission | 30~1000MHz | 4.24 dB | (1) |
| Radiated Emission | 1~18GHz | 5.16 dB | (1) |
| Conducted Disturbance | 0.15~30MHz | 3.39 dB | (1) |

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.5. Equipments Used during the Test

For Power Line Conducted Emission

| Item | Equipment Type | Manufacturer | Model No. | Serial Number | Calibrated until |
|------|-------------------|---------------|------------------------|---------------|------------------|
| 1. | L.I.S.N | SCHWARZBECK | NSLK 8127 | 8127-669 | 2023-05-12 |
| 2. | 10 db attenuator | JFW | 50FP-010-H4 | 4360846-427-1 | 2023-05-12 |
| 3. | RF Cable | N/A | N/A | 2# | 2023-05-12 |
| 4. | EMI Test Receiver | ROHDE&SCHWARZ | ESCI | 101358 | 2023-05-12 |
| 5. | Shielded Room | chengyu | 8m*4m*3m | N/A | 2023-05-12 |
| 6. | Test Software | Farad | EZ-EMC Ver:ANCI-8A1 | N/A | N/A |

For Radiated Emission Measurement

| Item | Equipment Type | Manufacturer | Model No. | Serial Number | Calibrated until |
|------|--------------------------|-----------------|------------------------|--------------------|------------------|
| 1. | EMI Test Receiver | Rohde & Schwarz | ESPI | 100502 | 2023-11-12 |
| 2. | EMI Test Receiver | Rohde & Schwarz | FSV40 | 102257 | 2023-11-12 |
| 3. | Pre-Amplifier | HP | 8447D | 2727A0617 2 | 2023-05-12 |
| 4. | Pre-Amplifier | A-INFO | LA1018N4009 | J101313052 4001 | 2023-05-12 |
| 5. | Bilog Antenna | Schwarzbeck | VULB9163 | VULB9163- 588 | 2023-05-12 |
| 6. | Horn Antenna | A-INFO | LB-10180-SF | J203109061 2123 | 2023-05-12 |
| 7. | Cable | N/A | N/A | 6# | 2023-05-12 |
| 8. | Cable | N/A | N/A | 1-1# | 2023-05-12 |
| 9. | Cable | N/A | N/A | 1-2# | 2023-05-12 |
| 10. | Cable | N/A | N/A | 7# | 2023-05-12 |
| 11. | 3m Semi-anechoic Chamber | chengyu | 9m*6m*6m | N/A | 2023-05-12 |
| 12. | Test Software | Farad | EZ-EMC Ver:ANCI-3A1 | N/A | N/A |

For Electrostatic Discharge Test

| Item | Equipment Type | Manufacturer | Model No. | Serial Number | Calibrated until |
|------|----------------|--------------|-----------|---------------|------------------|
| 1 | ESD Simulator | TESEQ | NSG437 | 336 | 2023-05-23 |

For Radio-frequency, Electromagnetic Field Immunity

| Item | Equipment Type | Manufacturer | Model No. | Serial Number | Calibrated until |
|------|--------------------------------|---------------|-------------|---------------|------------------|
| 1 | Signal Generator | Agilent | N517113-50B | MY53050160 | 2023-11-19 |
| 2 | Amplifier | A&R | 150W1000M3 | 313157 | 2023-08-24 |
| 3 | Amplifier | A&R | 50SIG6M2 | 0342835 | 2023-08-24 |
| 4 | Log-periodic Antenna | SCHWARZBECK | STLP 9128E | 9128E-012 | 2023-10-11 |
| 5 | Microwave log-periodic antenna | SCHWARZBECK | STLP 9149 | 9149.222 | 2023-10-11 |
| 6 | Isotropic Field Probe | A&R | FL700 | 0342652 | 2023-10-11 |
| 7 | Audio Analyzer | Rohde&Schwarz | UPL | SB3439 | 2023-11-19 |

The calibration interval is one year.

4. TEST CONDITIONS AND RESULTS

4.1. EMISSION

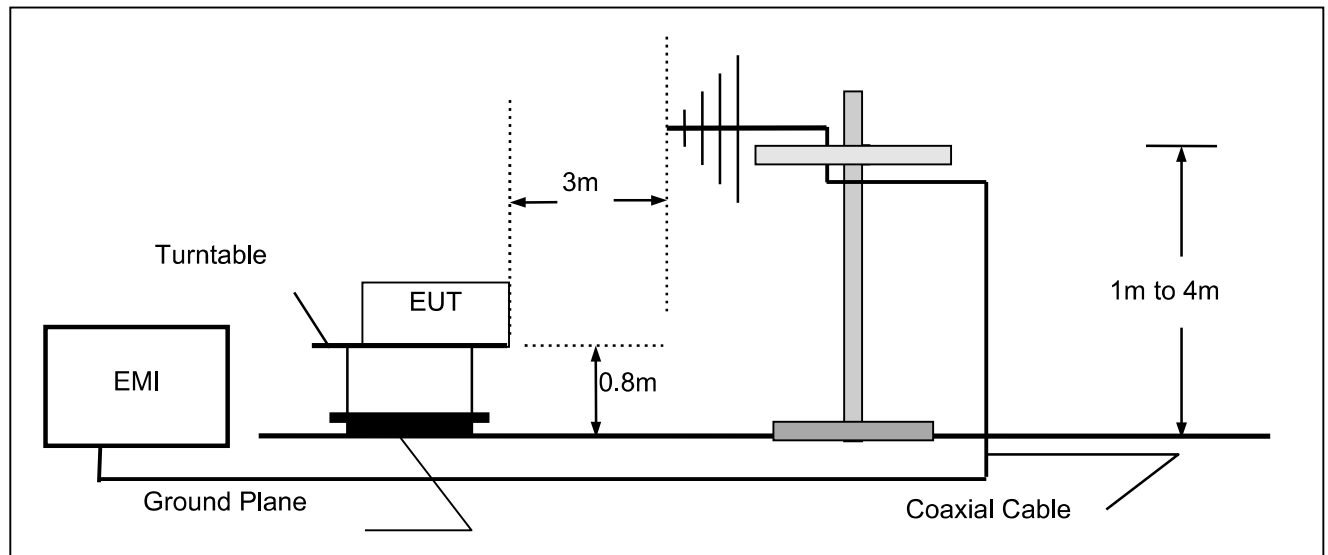
4.1.1. Radiated Emission

LIMIT

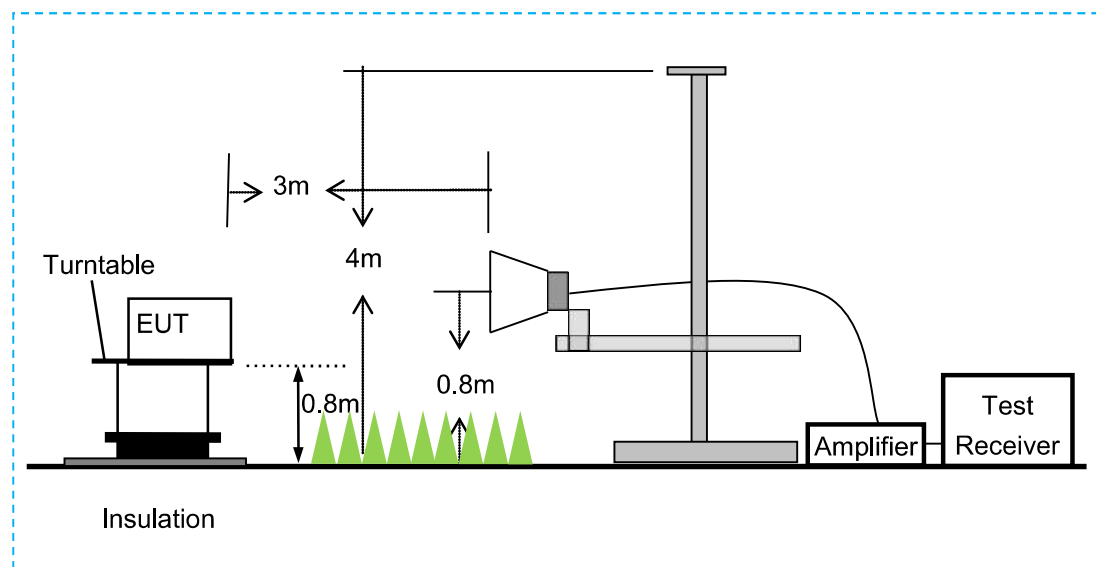
Please refer to ETSI EN301489-1 Clause 8.2.3, Table 4 and EN55032 Annex A, Table A.2,A.3, and Class B

TEST CONFIGURATION

- a) Radiated emission test set-up, frequency below 1000MHz:



- b) Radiated emission test set-up, frequency above 1000MHz



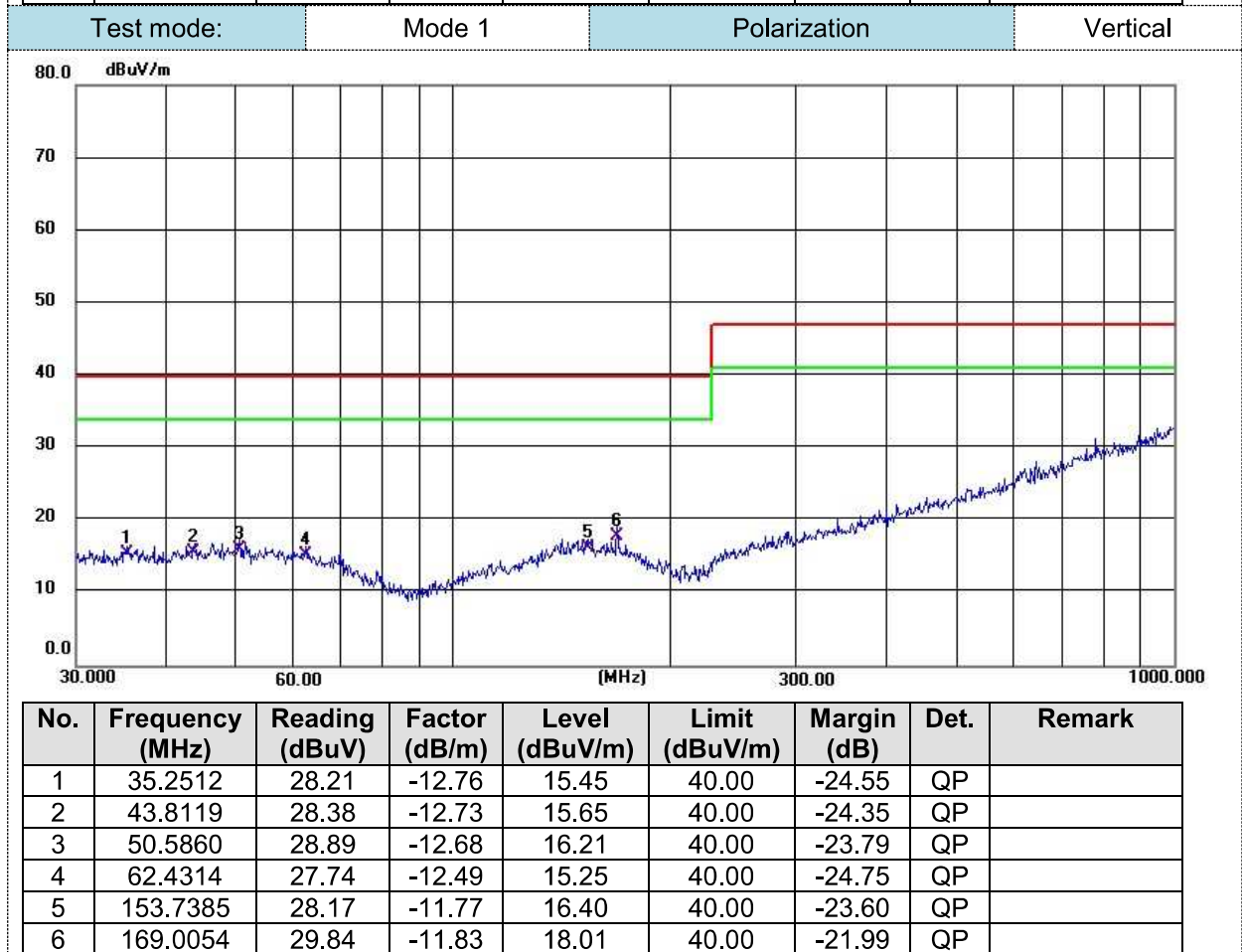
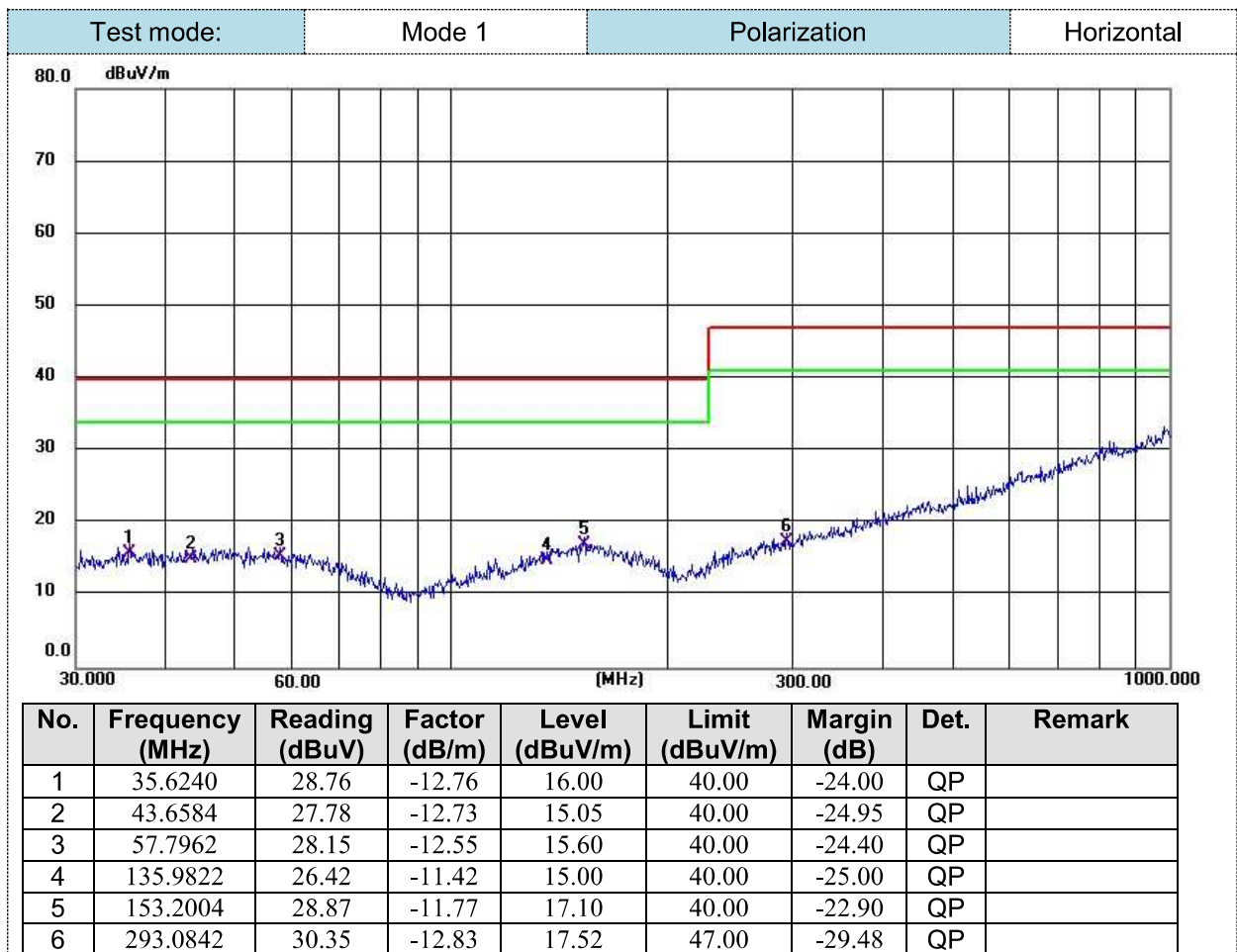
TEST PROCEDURE

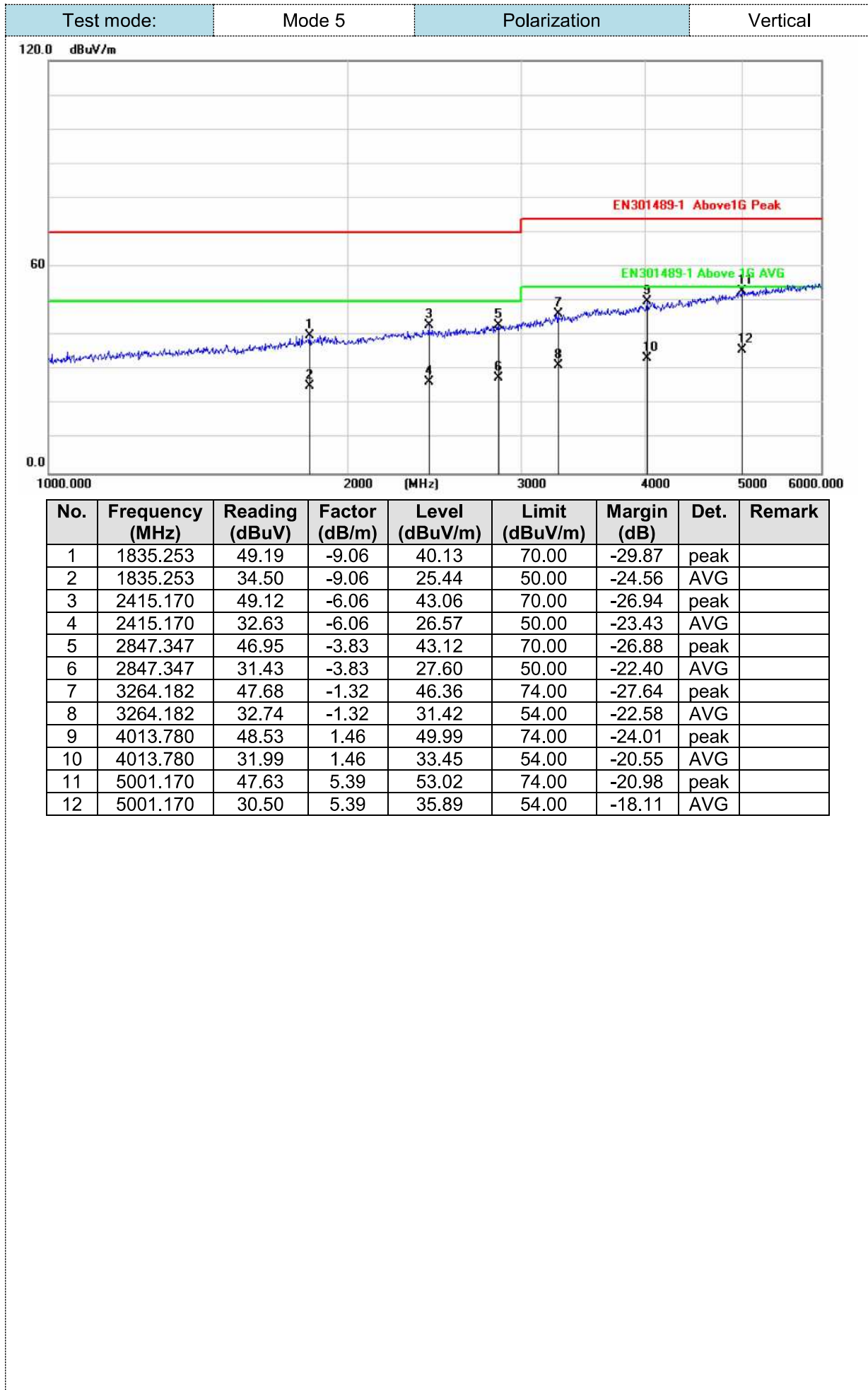
Please refer to ETSI EN 301 489-1 Clause 8.2.3 and EN55032 Annex A for the measurement methods

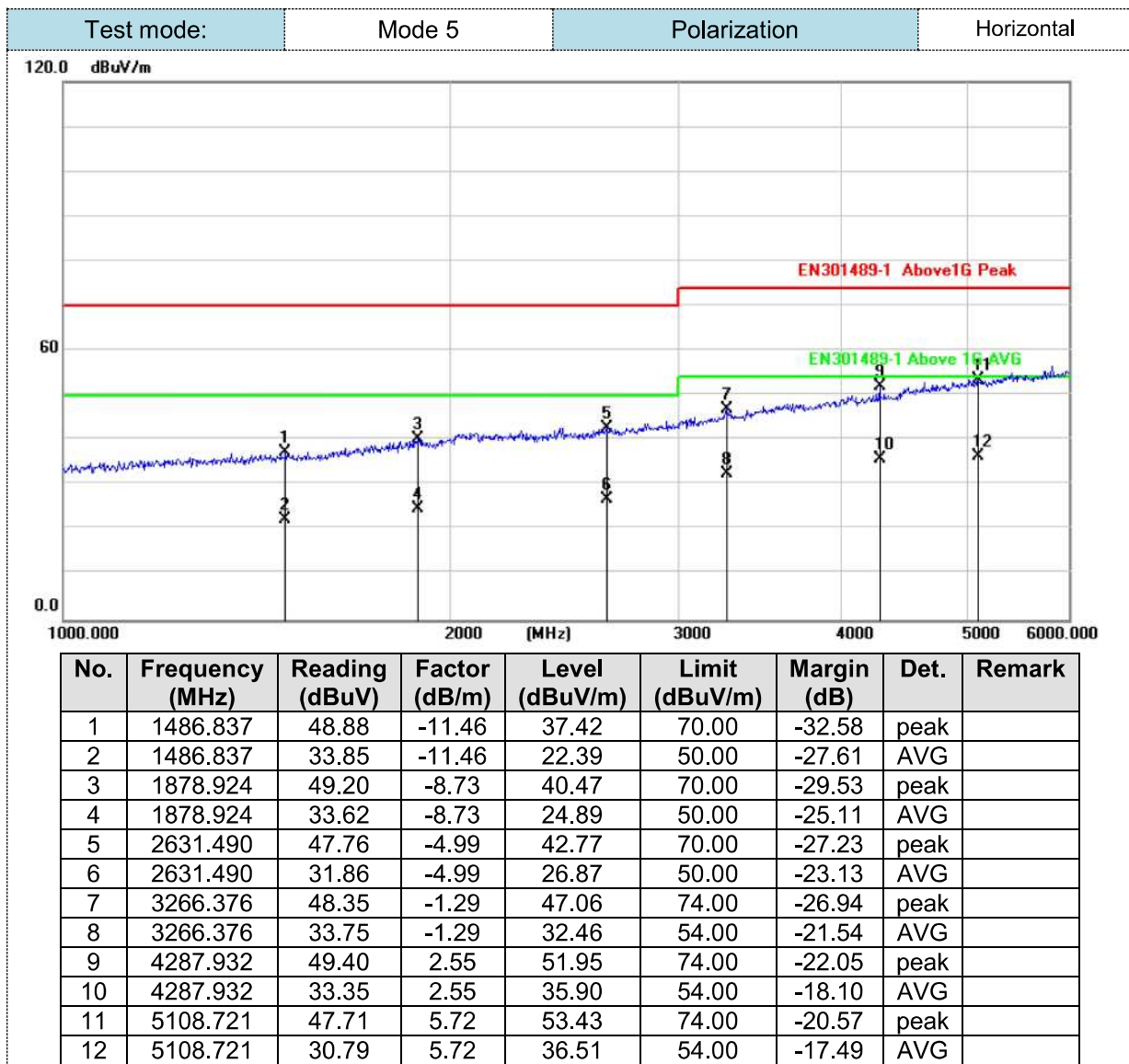
TEST RESULTS

Passed

Please refer to the below test data:





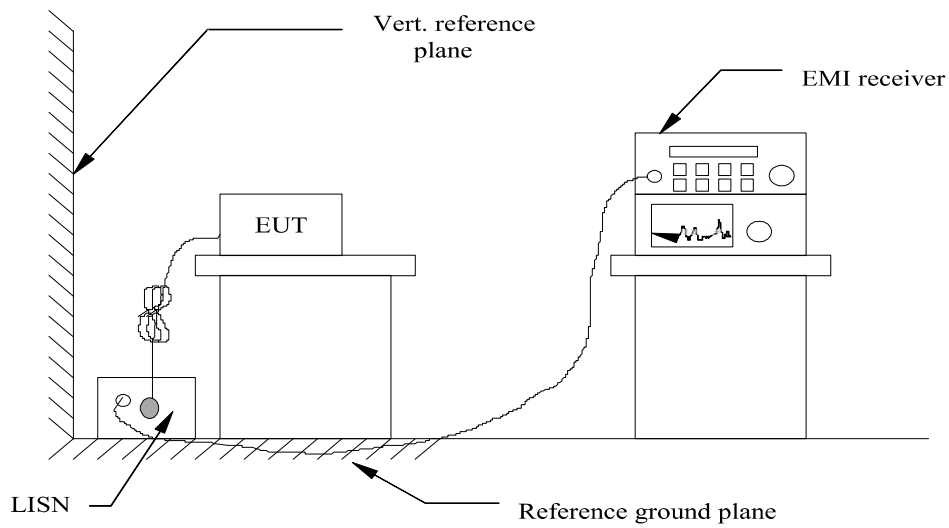


4.1.2. Conducted Emission

LIMIT

Please refer to ETSI EN301489-1 Clause 8.4.3, Table 8 and EN55032 Annex A, Table A.10, A.12

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 8.4.3 and EN55032 Annex A for the measurement methods.

TEST RESULTS

Not Applicable.

4.2. IMMUNITY

4.2.1. Performance criteria

■ ETSI EN301489-1

General performance criteria

- Performance criteria A for immunity tests with phenomena of a continuous nature;
- Performance criteria B for immunity tests with phenomena of a transient nature;
- Performance criteria C for immunity tests with power interruptions exceeding a certain time.

The equipment shall meet the minimum performance criteria as specified in the following.

| Criteria | During test | After test |
|----------|--|--|
| A | Shall operate as intended. May show degradation of performance (see note 1). Shall be no loss of function. Shall be no unintentional transmissions. | Shall operate as intended. Shall be no degradation of performance (see note 2). Shall be no loss of function. Shall be no loss of stored data or user programmable functions. |
| B | May show loss of function (one or more). May show degradation of performance (see note 1). No unintentional transmissions. | Functions shall be self-recoverable. Shall operate as intended after recovering. Shall be no degradation of performance (see note 2). Shall be no loss of stored data or user programmable functions. |
| C | May be loss of function (one or more). | Functions shall be recoverable by the operator. Shall operate as intended after recovering. Shall be no degradation of performance (see note 2). |

NOTE 1:

Degradation of performance during the test is understood as a degradation to a level not below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance.

If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

NOTE 2:

No degradation of performance after the test is understood as no degradation below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. After the test no change of actual operating data or user retrievable data is allowed.

If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

Performance criteria for Continuous phenomena applied to Transmitters (CT)

The performance criteria A shall apply.

Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an ACKnowledgement (ACK) or Not ACKnowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

Performance criteria for Transient phenomena applied to Transmitters (TT)

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration, for which performance criteria C shall apply.

Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an acknowledgement (ACK) or not-acknowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

Performance criteria for Continuous phenomena applied to Receivers (CR)

The performance criteria A shall apply.

Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

Performance criteria for Transient phenomena applied to Receivers (TR)

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration for which performance criteria C shall apply.

Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

■ ETSI EN301489-17

General performance criteria

- Performance criteria A for immunity tests with phenomena of a continuous nature;
- Performance criteria B for immunity tests with phenomena of a transient nature;
- Performance criteria C for immunity tests with power interruptions exceeding a certain time.

The equipment shall meet the minimum performance criteria as specified in the following.

| Criteria | During test | After test |
|-----------------|--|--|
| A | Shall operate as intended. May show degradation of performance (see note 1). Shall be no loss of function. Shall be no unintentional transmissions. | Shall operate as intended. Shall be no degradation of performance (see note 2). Shall be no loss of function. Shall be no loss of stored data or user programmable functions. |
| B | May show loss of function (one or more). May show degradation of performance (see note 1). No unintentional transmissions. | Functions shall be self-recoverable. Shall operate as intended after recovering. Shall be no degradation of performance (see note 2). Shall be no loss of stored data or user programmable functions. |
| C | May be loss of function (one or more). | Functions shall be recoverable by the operator. Shall operate as intended after recovering. Shall be no degradation of performance (see note 2). |

NOTE 1:

Degradation of performance during the test is understood as a degradation to a level not below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance.

If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

NOTE 2:

No degradation of performance after the test is understood as no degradation below a minimum performance level specified by the manufacturer for the use of the apparatus as intended. In some cases the specified minimum performance level may be replaced by a permissible degradation of performance. After the test no change of actual operating data or user retrievable data is allowed.

If the minimum performance level or the permissible performance degradation is not specified by the manufacturer then either of these may be derived from the product description and documentation (including leaflets and advertising) and what the user may reasonably expect from the apparatus if used as intended.

Performance criteria for Continuous phenomena applied to Transmitters (CT)

The performance criteria A shall apply.

Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an ACKnowledgement (ACK) or Not ACKnowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

Performance criteria for Transient phenomena applied to Transmitters (TT)

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration, for which performance criteria C shall apply.

Tests shall be repeated with the EUT in standby mode (if applicable) to ensure that unintentional transmission does not occur. In systems using acknowledgement signals, it is recognized that an acknowledgement (ACK) or not-acknowledgement (NACK) transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

Performance criteria for Continuous phenomena applied to Receivers (CR)

The performance criteria A shall apply.

Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

Performance criteria for Transient phenomena applied to Receivers (TR)

The performance criteria B shall apply, except for voltage dips of 100 ms and voltage interruptions of 5 000 ms duration for which performance criteria C shall apply.

Where the EUT is a transceiver, under no circumstances, shall the transmitter operate unintentionally during the test. In systems using acknowledgement signals, it is recognized that an ACK or NACK transmission may occur, and steps should be taken to ensure that any transmission resulting from the application of the test is correctly interpreted.

■ Performance Criterion of EN55035

Criterion A: 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.

Criterion B: After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended.

Criterion 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.

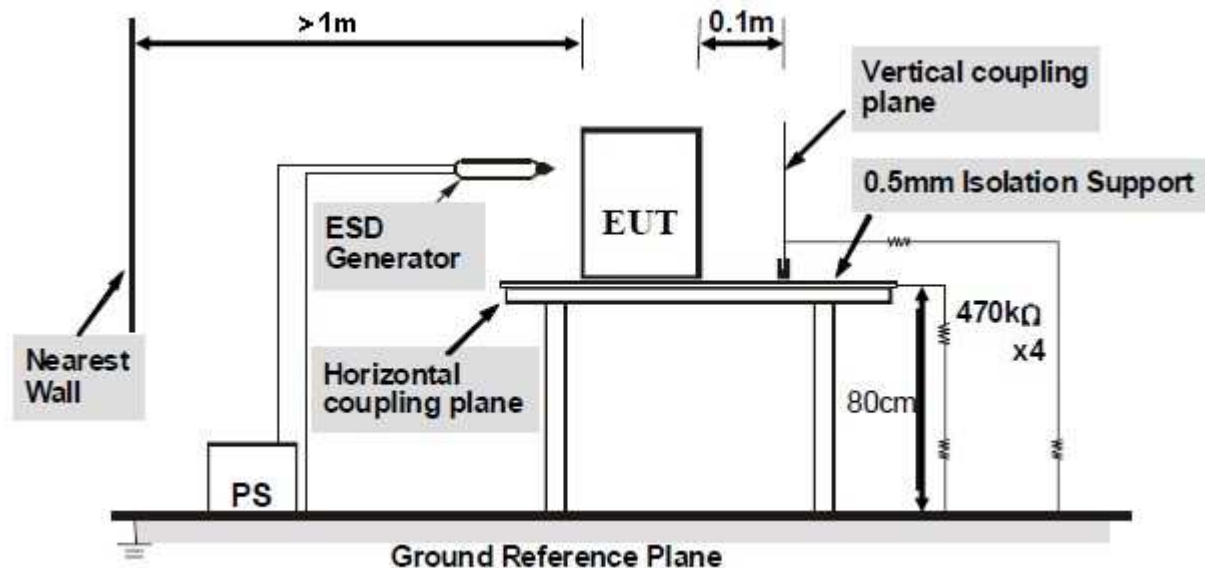
4.2.2. Electrostatic Discharge

LIMIT

SEVERITY LEVELS OF ELECTROSTATIC DISCHARGE

Test level: Contact Discharge at $\pm 2\text{kV}$, $\pm 4\text{kV}$ Air Discharge at $\pm 2\text{kV}$, $\pm 4\text{kV}$, $\pm 8\text{kV}$

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.3.2 , EN 55035 and EN 61000-4-2 for the measurement methods.

Contact Discharge:

The ESD generator is held perpendicular to the surface to which the discharge is applied and the tip of the discharge electrode touch the surface of EUT. Then turn the discharge switch. The generator is then re-triggered for a new single discharge and repeated at least 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

Air Discharge:

Air discharge is used where contact discharge can't be applied. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated at least 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

Indirect discharge for horizontal coupling plane:

At least 10 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT.

Indirect discharge for vertical coupling plane:

At least 10 single discharges shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

TEST MODE

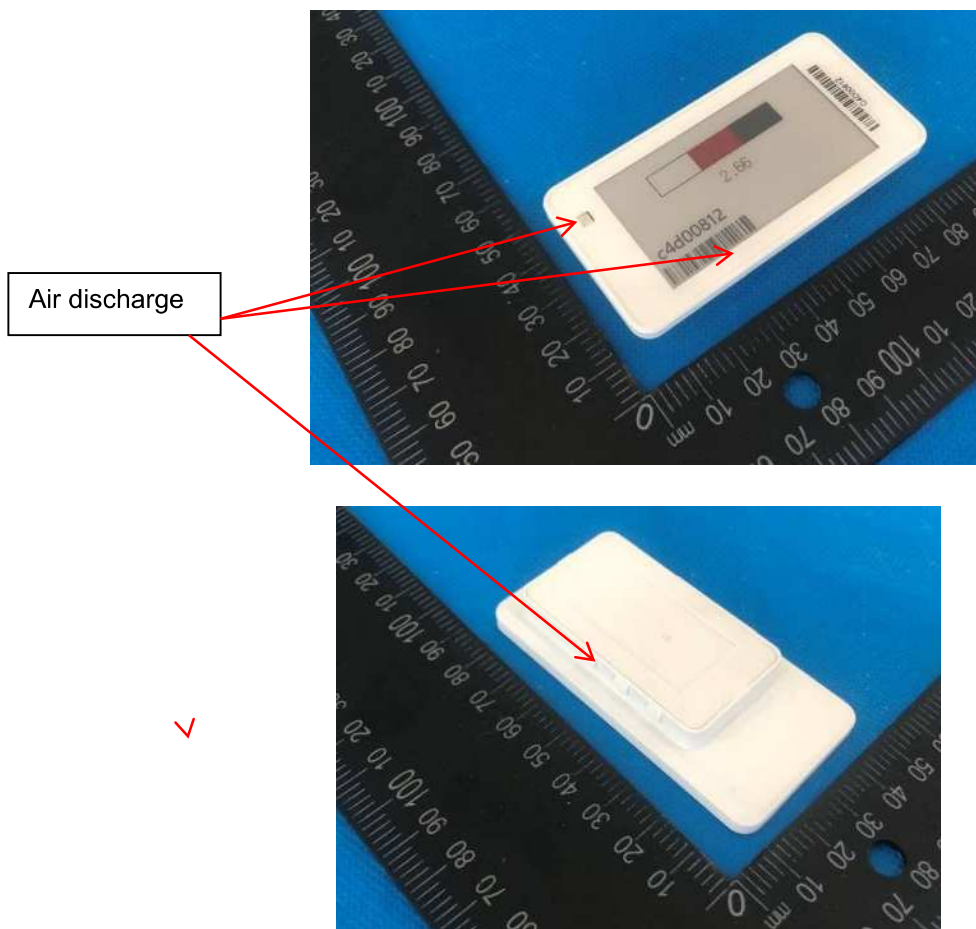
Please reference to the section 2.3

TEST RESULTS

| Direct discharge | | | | |
|--------------------|------------------------|--------------------------|----------------|--------|
| Type of discharge | Discharge voltage (KV) | Observations Performance | Criteria Level | Result |
| Contact discharge | ±2 | A | B | Pass |
| | ±4 | A | B | |
| Air discharge | ±2 | A | B | |
| | ±4 | A | B | |
| | ±8 | A | B | |
| Indirect discharge | | | | |
| Type of discharge | Discharge voltage (KV) | Observations Performance | Criteria Level | Result |
| HCP (6 sides) | ±2 | A | B | Pass |
| | ±4 | A | B | |
| VCP (4 sides) | ±2 | A | B | |
| | ±4 | A | B | |

Remark: The ancillary equipment's specification for an acceptable level of performance or degradation of performance during and/or after the ESD tests.

Description of Discharge Point



4.2.3. RF Electromagnetic Field

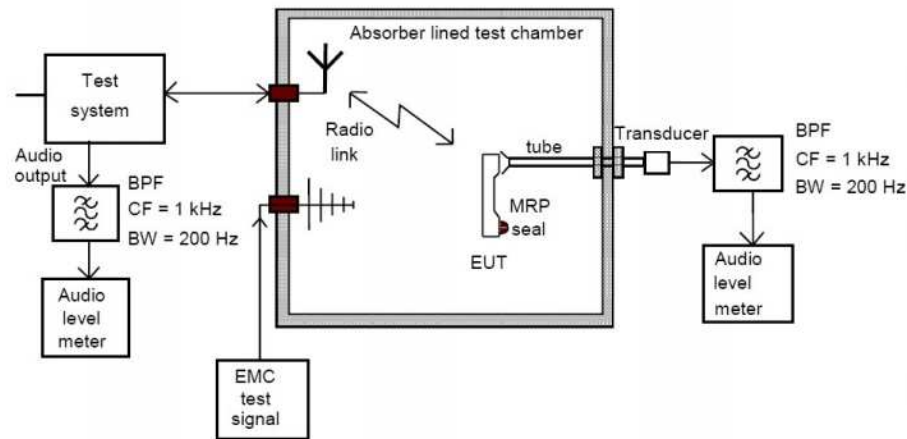
PERFORMANCE CRITERION

Criteria A

TEST LEVEL

3V/m (80%, 1kHz Amplitude Modulation)

TEST CONFIGURATION



TEST PROCEDURE

Please refer to ETSI EN 301 489-1 Clause 9.2.2 and EN 61000-4-3 for the measurement methods.

TEST MODE

Please reference to the section 2.3

TEST RESULTS

● Idle mode

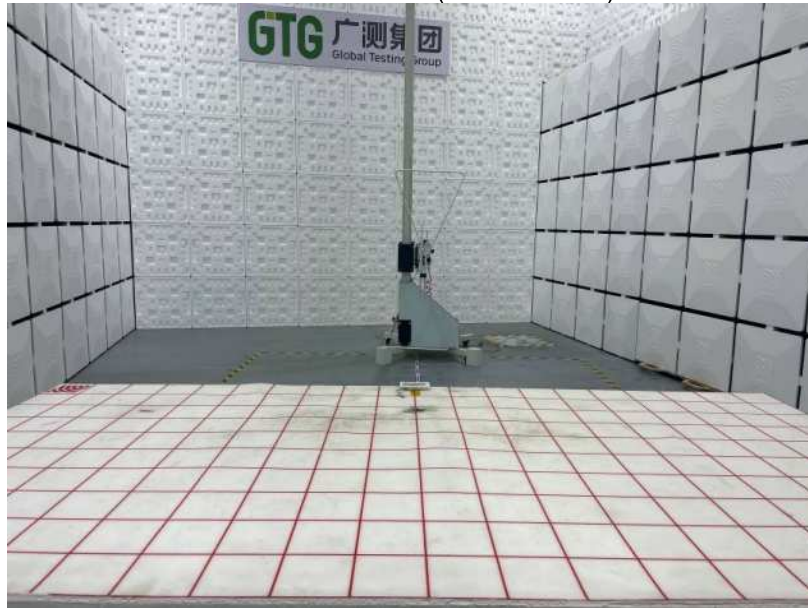
Test monitor: BCCH and CCCH

| Frequency | Level | Modulation | Antenna Polarization | EUT Face | Observations (Performance Criterion) | Result |
|------------|-------|---|----------------------|----------|--------------------------------------|--------|
| 80MHz-6GHz | 3 V/m | 1 kHz, 80 % Amp. Mod, 1 % increment, dwell time=3seconds | V | Front | A | Pass |
| | | | H | | A | Pass |
| | | | V | Rear | A | Pass |
| | | | H | | A | Pass |
| | | | V | Left | A | Pass |
| | | | H | | A | Pass |
| | | | V | Right | A | Pass |
| | | | H | | A | Pass |
| | | | V | Top | A | Pass |
| | | | H | | A | Pass |
| | | | V | Bottom | A | Pass |
| | | | H | | A | Pass |

Remark: A: No degradation in performance of the EUT was observed.

5. Test Set-up Photos of the EUT

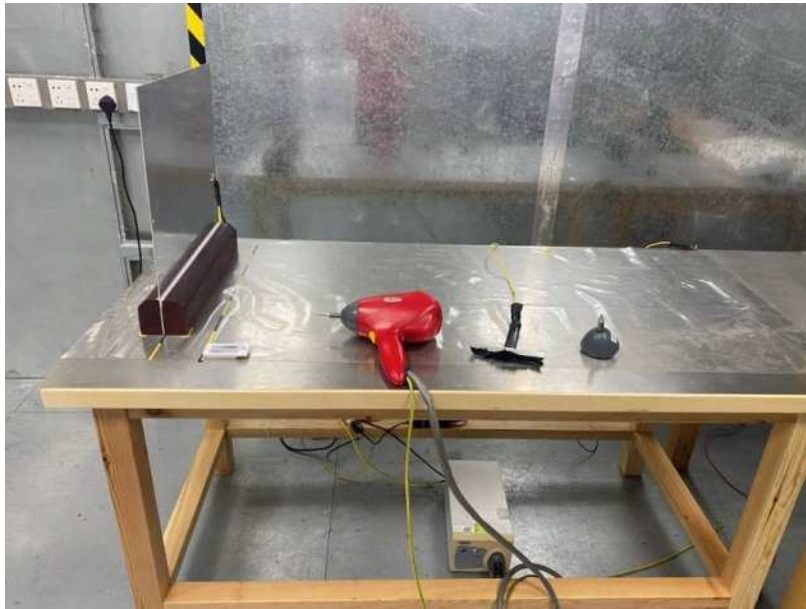
Radiated Emission (30MHz-1GHz)



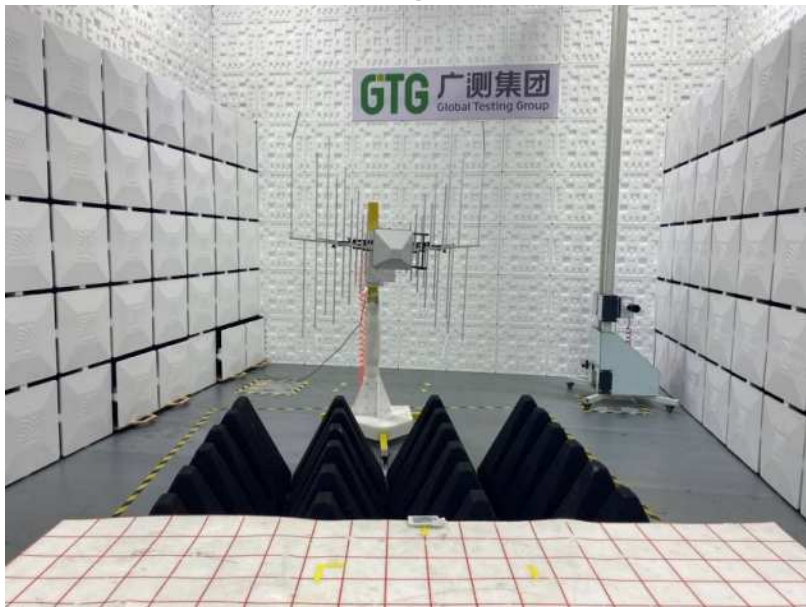
Radiated Emission (1GHz-6GHz)



Electrostatic Discharge



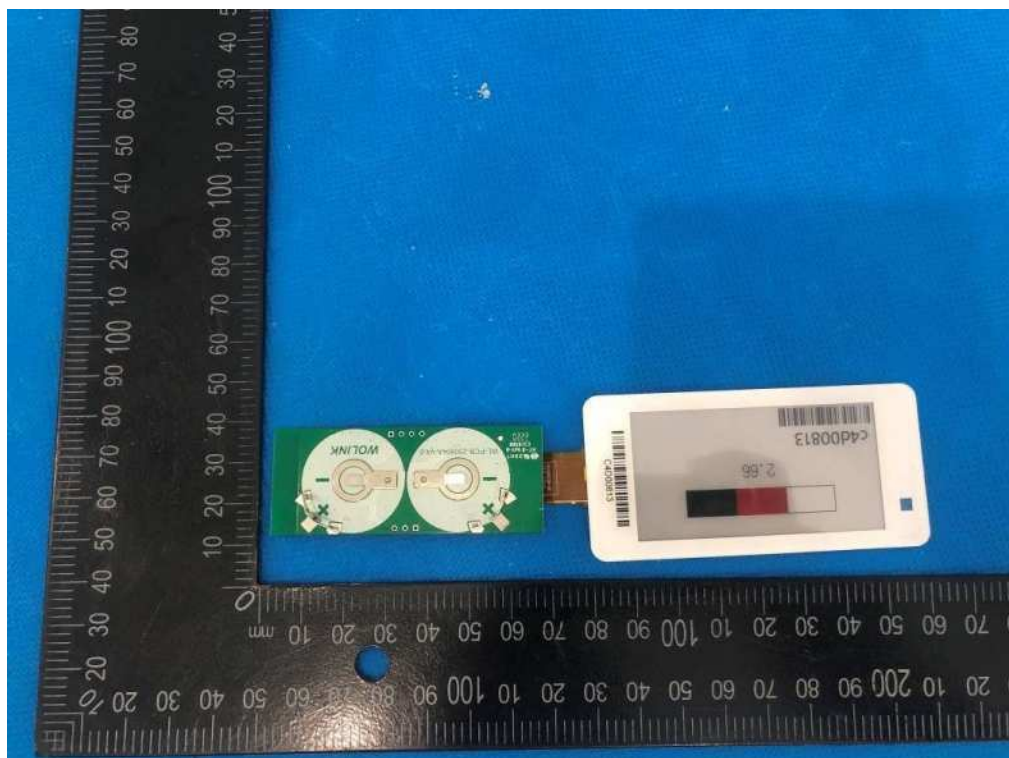
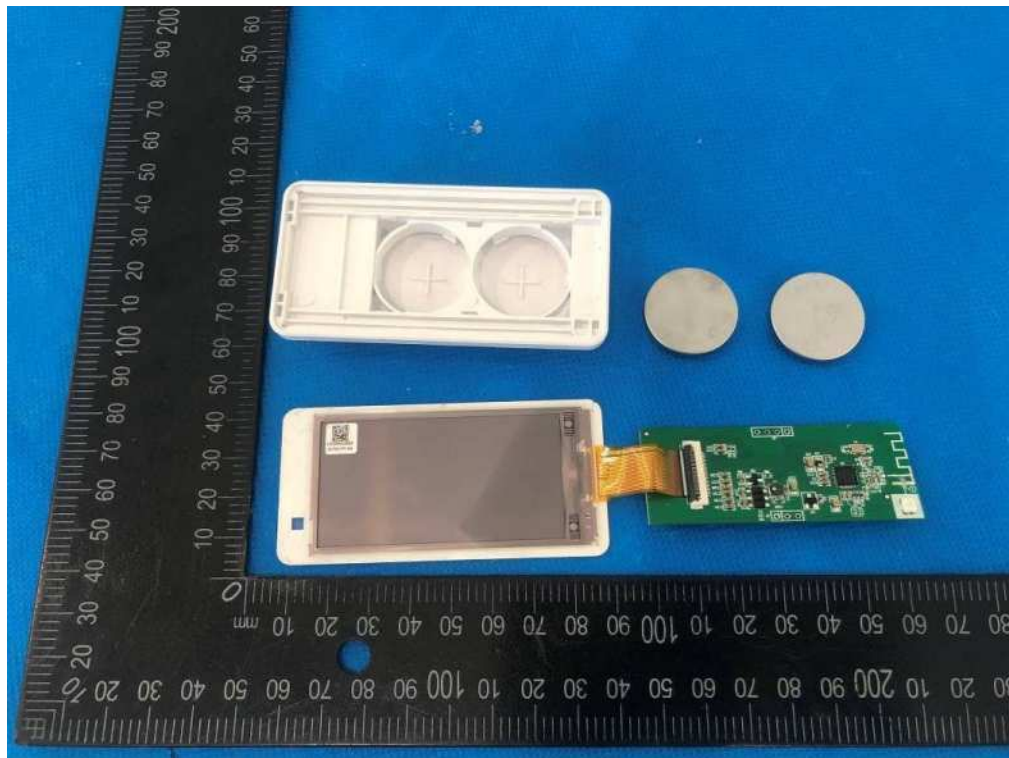
RS

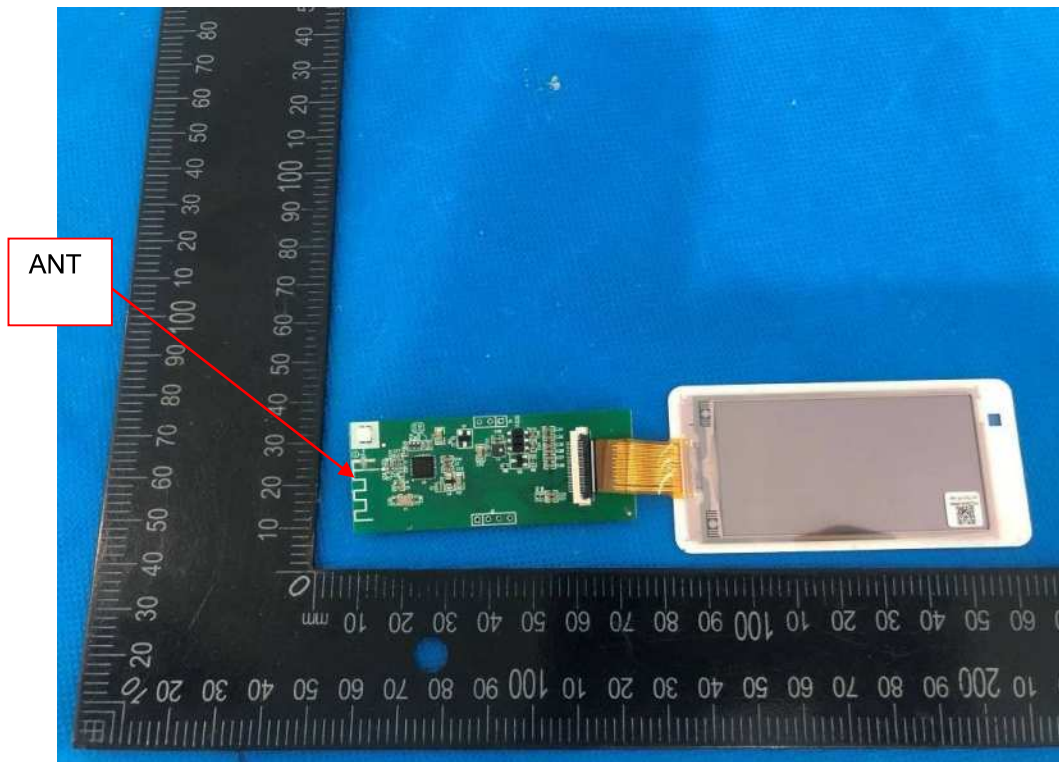


6. External and Internal Photos of the EUT

External Photos



Internal Photos



---End of Report---