



Certificate Number: 5055.02

TEST REPORT FOR BLUETOOTH TESTING

Report No.: SRTC2019-9004(F)-19111901 (E)

Product Name: Mobile Phone

Product Model: HLTE321E

Applicant: Hisense International Co., Ltd.

Manufacturer: Hisense Communications Co., Ltd.

Specification: FCC Part 15 Subpart C (2019)

FCC ID: 2ADOBHLTE321E

The State Radio_monitoring_center Testing Center (SRTC)

15th Building, No.30 Shixing Street, Shijingshan District,

Beijing, P.R.China

Tel: 86-10-57996183 Fax: 86-10-57996388



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1. GENERAL INFORMATION

1.1 Notes of the test report

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1.2 Information about the testing laboratory

| Company: | The State Radio_monitoring_center Testing Center (SRTC) |
|--------------------|--|
| Address: | 15th Building, No.30 Shixing Street, Shijingshan District, P.R.China |
| City: | Beijing |
| Country or Region: | P.R.China |
| Contacted person: | Liu Jia |
| Tel: | +86 10 57996183 |
| Fax: | +86 10 57996388 |
| Email: | liujiaf@srtc.org.cn |

1.3 Applicant's details

| Company: | Hisense International Co., Ltd. |
|--------------------|---|
| Address: | Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, 266071, |
| Address. | China |
| City: | Qingdao |
| Country or Region: | China |
| Contacted person: | Geng Ruifeng |
| Tel: | +86-532-80877742 |
| Fax: | |
| Email: | gengruifeng@hisense.com |

1.4 Manufacturer's details

| Company: | Hisense Communications Co., Ltd. |
|--------------------|---|
| Address: | No.218 Qianwangang Road, Economic & Technological |
| | Development Zone, Qingdao, China |
| City: | Qingdao |
| Country or Region: | China |
| Contacted person: | Deng Tingting |
| Tel: | +86-532-55753708 |
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| Email: | dengtingting@hisense.com |

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1.5 Test Environment

| Date of Receipt of test sample at SRTC: | 2019-11-19 |
|---|------------|
| Testing Start Date: | 2019-11-20 |
| Testing End Date: | 2020-01-10 |

| Environmental Data: | Temperature (°C) | Humidity (%) | |
|---------------------|------------------|--------------|--|
| Ambient | 25 | 30 | |

| Normal Supply Voltage (V d.c.): | 3.80 |
|---------------------------------|------|
|---------------------------------|------|

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2 DESCRIPTION OF THE DEVICE UNDER TEST

2.1 Final Equipment Build Status

| Frequency Range | 2.402GHz~2.480GHz |
|-------------------|--|
| Number of Channel | 40 |
| Modulation Type | GFSK |
| Equipment Class | DTS |
| Channel Spacing | 2MHz |
| Data Rate | 1Mbps |
| Power Supply | Battery/Charger |
| Hardware Version | V1.00 |
| Software Version | L1702.6.01.01.MX05 |
| IMEI | Sample1:002101542029990 Sample2:002101542033604 |
| Antenna type | Refer to Note |
| Antenna connector | Refer to Note |

Note: Antenna requirement (FCC part 15.203)

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

- •The antenna(s) of the EUT are permanently attached.
- •There are no provisions for connection to an external antenna.

Note: The antenna provide to the EUT, please refer to the following table:

| Brand | Model | Antenna gain Frequency range(GHz) Antenna type | | Connecter Type | |
|-------|-------|--|-------------------|---------------------------|-----|
| N/A | N/A | 2.0dBi | 2.402GHz~2.480GHz | Fixed Internal Antenna | N/A |

Manufacturers ensure that their designs will not be modified by the user or third parties arbitrary antenna parameters and performance. The EUT complies with the requirement of §15.203.



Note: The equipments have two supplies, are different on the supplier of Memory/PFC. there is no influence for the RF conducted performance.

Main Supply

| Part Name | Model | Supplier(Brand) | Description |
|-----------|---------------|----------------------------|-------------|
| FPC | HYT7.762.1283 | SHENZHEN ZHONGRUANXINDA | MAIN FPC |
| | | ELECTRONICS | |
| | | CO.,LTD | |

Secondary Supply

| | <u> </u> | | |
|-----------|---------------|------------|----------------------------------|
| Part Name | Model Name | supplier | Remark |
| FPC | HYT7.762.1283 | ZHUHAI | Same specification and different |
| | | HONGGUANG | manufacturers |
| | | TECHNOLOGY | |
| | | CO.,LTD | |

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2.2 Description of Test Modes

40 channels are provided to this EUT:

| CHANNEL | FREQ. (MHz) | CHANNEL | FREQ. (MHz) | CHANNEL | FREQ. (MHz) | CHANNEL | FREQ. (MHz) |
|---------|----------------|---------|----------------|---------|----------------|---------|----------------|
| 0 | 2402 | 10 | 2422 | 20 | 2442 | 30 | 2462 |
| 1 | 2404 | 11 | 2424 | 21 | 2444 | 31 | 2464 |
| 2 | 2406 | 12 | 2426 | 22 | 2446 | 32 | 2466 |
| 3 | 2408 | 13 | 2428 | 23 | 2448 | 33 | 2468 |
| 4 | 2410 | 14 | 2430 | 24 | 2450 | 34 | 2470 |
| 5 | 2412 | 15 | 2432 | 25 | 2452 | 35 | 2472 |
| 6 | 2414 | 16 | 2434 | 26 | 2454 | 36 | 2474 |
| 7 | 2416 | 17 | 2436 | 27 | 2456 | 37 | 2476 |
| 8 | 2418 | 18 | 2438 | 28 | 2458 | 38 | 2478 |
| 9 | 2420 | 19 | 2440 | 29 | 2460 | 39 | 2480 |

2.2.1 Test Mode Applicability and Tested Channel Detail

| EUT CONFIGURE MODE | APPLICABLE TO | | | | DESCRIPTION |
|--------------------|---------------|-----------|-----|-----------|-------------|
| EUT CONFIGURE MODE | RE ≥ 1G | RE<1G | PLC | APCM | |
| GFSK | $\sqrt{}$ | $\sqrt{}$ | | $\sqrt{}$ | = |

Where

RE ≥ 1G: Radiated Emission above 1GHz RE<1G: Radiated Emission below 1GHz PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Radiated Emission Test (Above 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

| A۱ | VAILABLE CHANNEL | TESTED CHANNEL | MODULATION TYPE | DATA RATE (Mbps) |
|----|------------------|----------------|-----------------|------------------|
| | 0 to 39 | 19 | GFSK | 1 |

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Radiated Emission Test (Below 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

| AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TYPE | DATA RATE (Mbps) |
|-------------------|----------------|-----------------|------------------|
| 0 to 39 | 19 | GFSK | 1 |

Power Line Conducted Emission Test:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

| AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TYPE | DATA RATE (Mbps) |
|-------------------|----------------|-----------------|------------------|
| 0 to 39 | 19 | GFSK | 1 |

Antenna Port Conducted Measurement:

This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

| AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TYPE | DATA RATE (Mbps) |
|-------------------|----------------|-----------------|------------------|
| 0 to 39 | 0, 19, 39 | GFSK | 1 |

2.3 Duty Cycle of Test Signal

Duty cycle of test signal is < 98 %, duty factor shall be considered.

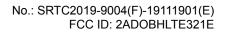
Duty cycle = 60.5%

Correction factor = $10^* \log (1/\text{duty cycle}) = 10^* \log (1/0.605) = 2.18 \text{ dB}$

2.4 EUT Operating conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

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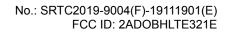
2.5 Support Equipment

The following support equipment was used to exercise the DUT during testing:

| The lonewing cappert equipment was assate exercise the Bell daring teeting. | | | |
|---|--|--|--|
| Equipment | Battery | | |
| Manufacturer | SHENZHEN TIANYIN ELECTRONICS CO., LTD. | | |
| Model Number | TPA-10120150UU | | |
| Serial Number | | | |

| Equipment | USB Cable |
|---------------|---------------------------------|
| Manufacturer | SHENZHEN KOAR ELECTRIC CO.,LTD. |
| Model Number | GET1-2824L10WHR-AC |
| Serial Number | |

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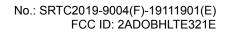


3 REFERENCE SPECIFICATION

| Specification | Version | Title |
|----------------------------|------------------|--|
| FCC part15 Subpart C | 2019 | Intentional radiators |
| ANSI C63.10 | 2013 | Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices |
| KDB 558074D01 V05R02r02 | April 2, 2019 | Guidance for compliance measurements on Digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules |

4 KEY TO NOTES AND RESULT CODES

| Code | Meaning |
|------|--|
| PASS | Test result shows that the requirements of the relevant specification have been met. |
| FAIL | Test result shows that the requirements of the relevant specification have not been met. |
| N/T | Test case is not tested. |





5 RESULT SUMMARY

| No. | Test case | Reference | Verdict |
|-----|--|-------------------------|----------------------------|
| 1 | 6dB Bandwidth | 15.247(a)(2) | Pass |
| 2 | Transmitter Output Power | 15.247(b)(3)) | Pass |
| 3 | Transmitter Power Spectral Density | 15.247(e)) | Pass |
| 4 | Conducted Out of band emission measurement | 15.247(d) | Pass |
| 5 | Band-edge | 15.247(d) | Pass |
| 6 | Spurious Radiated Emissions | 15.205/15.209/15.247(d) | Pass |
| 7 | AC Power line Conducted Emission | 15.207 | Pass |
| 8 | Antenna requirement | 15.203 | Pass(refer to section 2.1) |

| This Test Report Is Approved by: Mr. Peng Zhen | Review by: Mr. Li Bin |
|--|--------------------------|
| 盐板 | [本本] |
| Tested and issued by: | Approved date: |
| Mr. Chang Tianyu | 2020/01/13 |

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<u>6 TEST RESULT</u>

6.1 6dB Bandwidth

6.1.1 Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 25°C | 30% | 101.5kPa |

6.1.2 Test limit

Part15.247 (a) (2)

The minimum permissible 6dB bandwidth is 500 kHz

6.1.3 Test Procedure Used

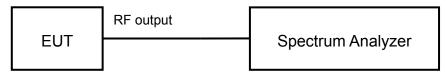
ANSI C63.10-2013 - Section 11.8.2 Option 2 KDB 558074 D01 v05r02 - Section 8.2

6.1.4 Test Settings

- 1. The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 100 kHz
- 3. VBW \geq 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize

6.1.5 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.1.6 Test result

The test results are shown in Appendix A.

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6.2 Transmitter Output Power

6.2.1 Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 25°C | 30% | 101.5kPa |

6.2.2 Test limit

Part15.247 (b) (3)

The maximum permissible conducted output power is 1 Watt.

6.2.3 Test Procedure Used

ANSI C63.10-2013 - Section 11.9.1.3 ANSI C63.10-2013 - Section 11.9.2.3.2 KDB 558074 D01 v05r02 - Section 8.3.1.3

6.2.4 Test Settings

Peak Power Measurement

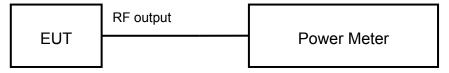
The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

6.2.5 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.2.6 Test result

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The test results are shown in Appendix A.

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6.3 Transmitter Power Spectral Density

6.3.1 Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 25°C | 30% | 101.5kPa |

6.3.2 Test limit

Part15.247 (e)

The maximum permissible power spectral density is 8.0dBm in any 3 kHz band.

6.3.3 Test Procedure Used

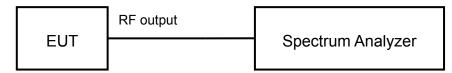
ANSI C63.10-2013 - Section 11.10.2 Method PKPSD KDB 558074 D01 v05r02 - Section 8.4

6.3.4 Test Settings

- 1. Analyzer was set to the center frequency of the DTS channel under investigation
- 2. Span = 1.5 times the DTS channel bandwidth
- 3. RBW = 3 kHz
- 4. VBW = 10 kHz
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Trace was allowed to stabilize

6.3.5 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.3.7 Test result

The test results are shown in Appendix A.

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6.4 Conducted Out of band emission measurement

6.4.1 Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 25°C | 30% | 101.5kPa |

6.4.2 Test limit

Part 15.247(d): The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth.

6.4.3 Test Procedure Used

ANSI C63.10-2013 - Section 11.11.3

KDB 558074 D01 v05r02 - Section 8.5

6.4.4 Reference level measurement Settings

Establish a reference level by using the following procedure:

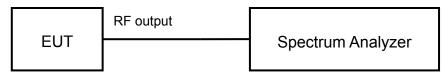
- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to ≥ 1.5 MHz
- c) Set the RBW = 100 kHz.
- d) Set the VBW ≥ 300 kHz.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.

6.4.5 Test Settings

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW ≥ 300 kHz.
- d) Detector = peak.
- e) Set span to encompass the spectrum to be examined
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level.

6.4.6 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.4.7 Test result

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement. The test results are shown in Appendix A.

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6.5 Band-edge measurement

6.5.1 Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 25°C | 30% | 101.5kPa |

6.5.2 Test limit

Part 15.247(d): The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth.

6.5.3 Test Procedure Used

ANSI C63.10-2013 - Section 11.11.3

KDB 558074 D01 v05r02 - Section 8.7.2

6.5.4 Reference level measurement Settings

Establish a reference level by using the following procedure:

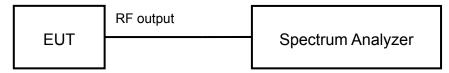
- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the span to ≥ 1.5 MHz
- c) Set the RBW = 100 kHz.
- d) Set the VBW ≥ 300 kHz.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.

6.5.5 Test Settings

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq 300 kHz.
- d) Detector = peak.
- e) Set span to encompass the spectrum to be examined
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level.

6.5.6 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.5.7 Test result

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement. The test results are shown in Appendix A.

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6.6 Spurious Radiated Emissions

6.6.1 Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 25°C | 30% | 101.5kPa |

6.6.2 Test Description

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

6.6.3 Test limit

Part15.205, 15.209, 15.247(d)

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in below Table per Section 15.209. The spectrum shall be investigated from the lowest radio frequency signal generated in the device

| Frequency [MHz] | Field strength [µV/m] | Measured Distance [meters] |
|-----------------|-------------------------|----------------------------|
| 0.009~0.490 | 2400/F(kHz) | 300 |
| 0.490~1.705 | 24000/F(kHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

Radiated Limits

Part15.35(b):

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit

Used conversion factor: Limit (dBuV/m) = 20 log (Limit (uV/m)/1uV/m)

| | 5 \ - \ \ / | · / |
|--|-------------|---------------|
| Frequency [MHz] | Detector | Unit (dBµV/m) |
| 30~88 | Quasi-peak | 40.0 |
| 88~216 | Quasi-peak | 43.5 |
| 216~960 | Quasi-peak | 46.0 |
| 960~1000 | Quasi-peak | 54.0 |
| 1000∼5th harmonic of the highest frequency | Average | 54.0 |
| or 40GHz, whichever is lower | Peak | 74.0 |

Conversion Radiated limits

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6.6.4 Test Procedure Used

KDB 558074 D01 DTS Meas Guidance v05r02r02 - Section 12.2.7

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Both X and Y axes of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and recorded the reading with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer complied the following setting:

| Frequency | RBW |
|------------|-----------|
| 9-150kHz | 200-300Hz |
| 0.15-30MHz | 9-10kHz |

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground in chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to guasi-peak detect function and recorded the reading with Maximum Hold Mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detector and recorded the reading with Maximum Hold Mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

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For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Average detection (AV) at frequency above 1GHz. If duty cycle of test signal is < 98%, the duty factor need added to measured value.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

6.6.5 Test Settings

Average Field Strength Measurements per Section 12.2.7 of KDB 558074 (Part 15.35)

| Frequency | Detector |
|-----------|------------------|
| <1000MHz | Quasi-peak |
| >1000MHz | Peak and average |

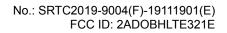
Peak Field Strength Measurements per Section 12.2.7of KDB 558074 (Part 15.35)

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW is set depending on measurement frequency, as specified in following table

| Frequency | RBW |
|------------|------------|
| 9-150kHz | 200-300Hz |
| 0.15-30MHz | 9-10kHz |
| 30-1000MHz | 100-120kHz |
| >1000MHz | 1MHz |

- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

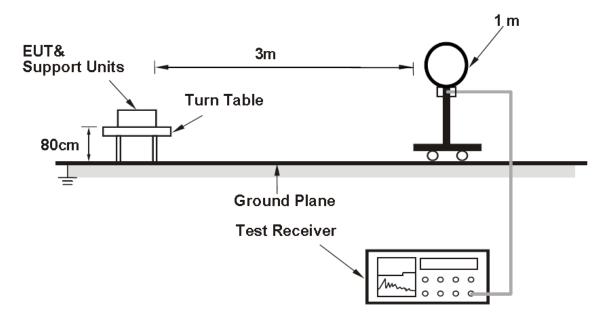
The State Radio_monitoring_center Testing Center (SRTC)
Tel: 86-10-57996183



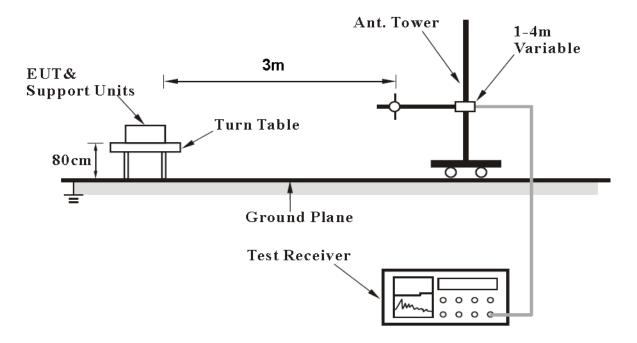


6.6.6 Test Setup

For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz

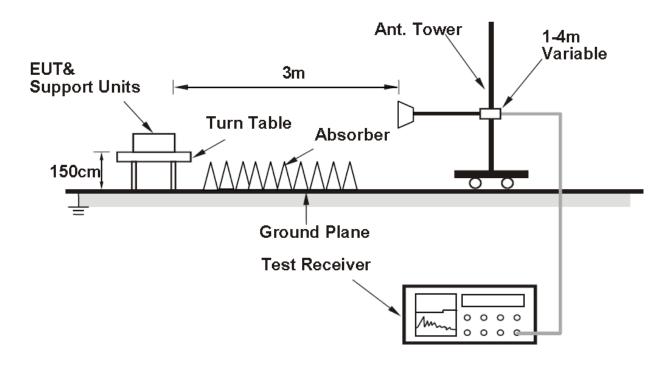


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For Radiated emission above 1GHz



6.6.7 Test result

The test results are shown in Appendix B.



6.7 AC Power line Conducted Emission

6.7.1 Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 25°C | 30% | 101.5kPa |

6.7.2 Test limit

FCC Part15.207

| Frequency of Emission (MHz) | Conducted Limit (dBuV) | |
|-----------------------------|------------------------|------------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56 * | 56 to 46 * |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

^{*} Decreases with the logarithm of the frequency.

The measurement is made according to ANSI C63.10-2013

6.7.3 Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit -20dB) were not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

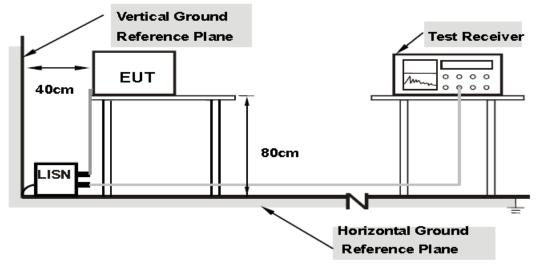
The EUT shall test under the power AC120V/60Hz.

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6.7.4 Test Setup

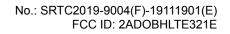


For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.5 Test result

The test results are shown in Appendix B.

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7 MEASUREMENT UNCERTAINTIES

| Items | Uncer | tainty | | |
|----------------------|----------------|--------|--|--|
| Occupied Bandwidth | 3kHz | | | |
| Peak power output | 0.67dB | | | |
| Band edge compliance | 1.20dB | | | |
| | 30MHz∼1GHz | 2.83dB | | |
| Spurious emissions | 1GHz∼12.75GHz | 2.50dB | | |
| | 12.75GHz~25GHz | 2.75dB | | |

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8 TEST EQUIPMENTS

| No. | Name/ Model | Manufacturer | S/N | Cal date | Cal Due date |
|-----|---|---------------|--------------|------------|-----------------|
| 1. | Spectrum Analyzer FSV | ROHDE&SCHWARZ | 101065 | 2019.08.20 | 2020.08.19 |
| 2. | Power Meter E4416A | Agilent | MY52370013 | 2019.03.01 | 2020.02.29 |
| 3. | Power Sensor E9327A | Agilent | MY52420006 | 2019.03.01 | 2020.02.29 |
| 4. | 23.18m×16.88m×9.60m Semi-Anechoic Chamber | FRANKONIA | | | |
| 5. | Turn table Diameter:5m | FRANKONIA | | | |
| 6. | Antenna master SAC(MA4.0) | MATURO | | | |
| 7. | 9.080m×5.255m×3.525m Shielding room | FRANKONIA | | | |
| 8. | HF 907 Double-Ridged Waveguide Horn Antenna | R&S | 100512 | 2019.08.20 | 2020.08.19 |
| 9. | 3160-09 Receive antenna | SCHWARZ-BECK | 002058-002 | 2019.08.20 | 2020.08.19 |
| 10. | ESI 40 EMI test receiver | R&S | 100015 | 2019.08.20 | 2020.08.19 |
| 11. | ESCS30 EMI test receiver | R&S | 100029 | 2019.08.20 | 2020.08.19 |
| 12. | HL562 Receive antenna | R&S | 100167 | 2019.08.20 | 2020.08.19 |
| 13. | ENV216 AMN | R&S | 3560.6550.12 | 2019.08.20 | 2020.08.19 |

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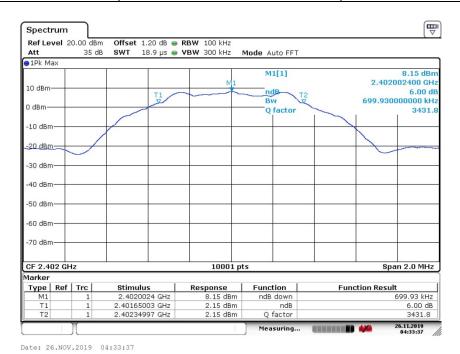
APPENDIX A - TEST DATA OF CONDUCTED EMISSION

6dB Bandwidth

Offset 1.2dB = Temporary antenna connector loss 0.2dB+ Cable loss 1.0dB

Modulation type: GFSK (LE 1Mbps)

| Carrier frequency (MHz) | Channel No. | 6 dB bandwidth(kHz) |
|-------------------------|-------------|---------------------|
| 2402 | 0 | 699.93 |
| 2440 | 19 | 704.33 |
| 2480 | 39 | 693.53 |

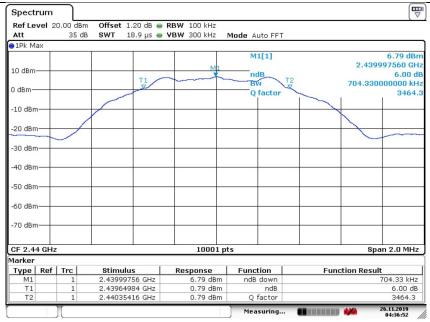


Carrier frequency (MHz): 2402 Channel No.:0 Modulation type: GFSK (LE 1Mbps)

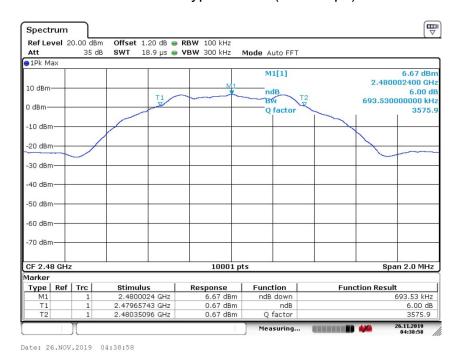
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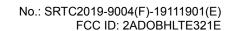
Carrier frequency (MHz): 2440 Channel No.:19 Modulation type: GFSK (LE 1Mbps)



Carrier frequency (MHz): 2480 Channel No.:39

Modulation type: GFSK (LE 1Mbps)

Date: 26.Nov.2019 04:36:52



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Peak Power Output

| | Pe | Peak Power Output (dBm) | | | | |
|-----------------|---------|-------------------------|---------|--|--|--|
| Modulation type | 2402MHz | 2440MHz | 2480MHz | | | |
| | (Ch0) | (Ch19) | (Ch39) | | | |
| GFSK (LE 1Mbps) | 7.63 | 6.86 | 7.18 | | | |

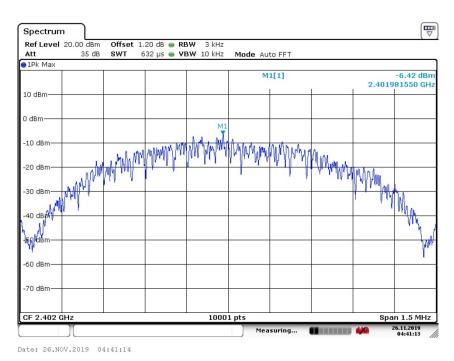
| | Average Power Output (dBm) | | | | |
|-----------------|----------------------------|---------|---------|--|--|
| Modulation type | 2402MHz | 2440MHz | 2480MHz | | |
| | (Ch0) | (Ch19) | (Ch39) | | |
| GFSK (LE 1Mbps) | 4.01 | 3.38 | 3.63 | | |

Transmitter Power Spectral Density

Offset 1.2dB = Temporary antenna connector loss 0.2dB+ Cable loss 1.0dB

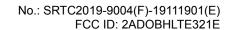
Modulation type: GFSK (LE 1Mbps)

| Carrier frequency (MHz) | Channel No | Power Density(dBm/3kHz) |
|-------------------------|------------|--------------------------|
| 2402 | 0 | -6.42 |
| 2440 | 19 | -7.75 |
| 2480 | 39 | -7.85 |



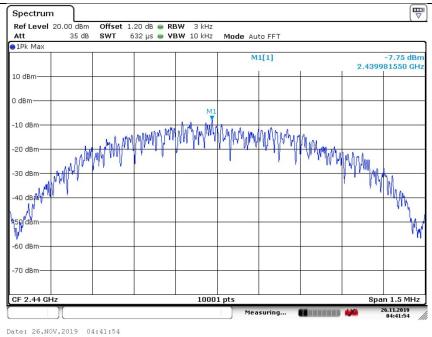
Carrier frequency (MHz): 2402 Channel No.:0

Modulation type: GFSK (LE 1Mbps)

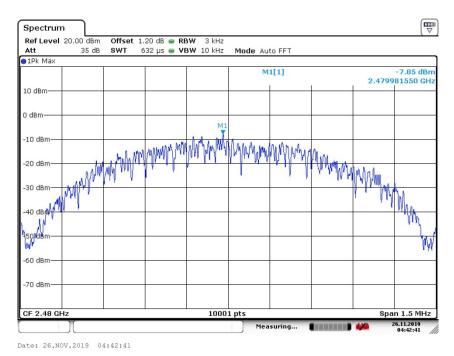


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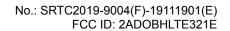




Carrier frequency (MHz): 2440 Channel No.:19 Modulation type: GFSK (LE 1Mbps)



Carrier frequency (MHz): 2480 Channel No.:39 Modulation type: GFSK (LE 1Mbps)

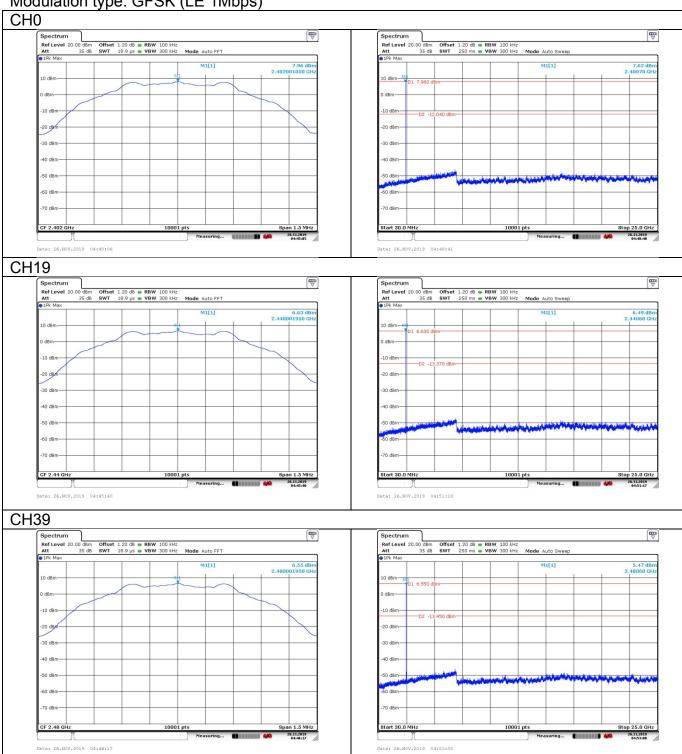




Conducted Out of band emission measurement

Offset 1.2dB = Temporary antenna connector loss 0.2dB+ Cable loss 1.0dB

Modulation type: GFSK (LE 1Mbps)



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Band edge measurement (RF Conducted measurement)

Offset 1.2dB = Temporary antenna connector loss 0.2dB+ Cable loss 1.0dB





APPENDIX B - TEST DATA OF RADIATED EMISSION

Radiated Emission Band Edge

The worst case attitude: The eut lay down.

The measurement results are obtained as described below: Measure Level = Reading Level + cable loss + antenna factor

Sample calculation: $(91.49 \text{ dBuV/m}) = (57.49 \text{ dB}\mu\text{V}) + (8.90 \text{ dB}) + (25.10 \text{ dB})$, the corresponding frequency is 2402MHz.

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE)

Polarity: Vertical Detector: Peak

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1 | 2402 | 91.49 | 57.49 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 55.61 | 21.61 | -18.39 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE) Polarity: Horizontal

Detector: Peak

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1 | 2402 | 87.82 | 53.82 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 51.86 | 17.86 | -22.14 | 74.00 | 8.90 | 25.10 |

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Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE)

Polarity: Vertical Detector: Average

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB) | | | | |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|--|--|--|--|
| 1 | 2402 | 85.67 | 51.67 | N/A | N/A | 8.90 | 25.10 | | | | |
| 2 | 2390 | 42.04 | 8.04 | -11.96 | 54.00 | 8.90 | 25.10 | | | | |

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE) Polarity: Horizontal Detector: Average

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1 | 2402 | 80.93 | 46.93 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2390 | 40.90 | 6.90 | -13.10 | 54.00 | 8.90 | 25.10 |



Carrier frequency (MHz): 2480

Channel No.:39

Test Mode: GFSK (LE)

Polarity: Vertical Detector: Peak

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1 | 2480 | 91.00 | 57.00 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 54.03 | 20.03 | -19.97 | 74.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2480

Channel No.:39

Test Mode: GFSK (LE) Polarity: Horizontal Detector: Peak

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB) | | | | |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|--|--|--|--|
| 1 | 2480 | 87.37 | 53.37 | N/A | N/A | 8.90 | 25.10 | | | | |
| 2 | 2483.5 | 52.63 | 18.63 | -21.37 | 74.00 | 8.90 | 25.10 | | | | |



Carrier frequency (MHz): 2480

Channel No.:39 Test Mode: GFSK (LE)

Polarity: Vertical Detector: Average

| | J | | | | | | |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB) |
| 1 | 2480 | 83.35 | 49.35 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 43.16 | 9.16 | -10.84 | 54.00 | 8.90 | 25.10 |

Carrier frequency (MHz): 2480

Channel No.:39

Test Mode: GFSK (LE) Polarity: Horizontal Detector: Average

| No | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | cable loss (dB) | antenna factor (dB) |
|----|--------------------|------------------------------|----------------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 1 | 2480 | 82.38 | 48.38 | N/A | N/A | 8.90 | 25.10 |
| 2 | 2483.5 | 42.17 | 8.17 | -11.83 | 54.00 | 8.90 | 25.10 |



Sample Calculations

Determining Spurious Emissions Levels

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

Result= Pmea + ARpl

Sample calculation: $(30.68dB\mu V/m) = (61.10 dBuV) + (-21.1dB/m)$, the corresponding

frequency is 30.339500MHz.

The worst case attitude: The eut lay down.

For GFSK (LE) Channel No.:0

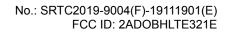
| Frequency (MHz) | Result (dBuV/m) | Limit (dBuV/m) | Polarity | ARpl (dB) | Pmea (dBuV/m) |
|--------------------|--------------------|-------------------|----------|--------------|------------------|
| 30.339500 | 30.68 | 40.00 | Vertical | -21.1 | 61.10 |
| 65.453500 | 27.61 | 40.00 | Vertical | -20.2 | 60.20 |
| 72.680000 | 30.06 | 40.00 | Vertical | -22.2 | 62.20 |
| 160.950000 | 21.17 | 43.50 | Vertical | -21.2 | 64.70 |
| 162.453500 | 21.46 | 43.50 | Vertical | -21.1 | 64.60 |
| 173.608500 | 22.90 | 43.50 | Vertical | -20.4 | 63.90 |

Channel No.:19

| Frequency (MHz) | Result (dBuV/m) | Limit (dBuV/m) | Polarity | ARpl (dB) | Pmea (dBuV/m) |
|--------------------|--------------------|-------------------|----------|--------------|------------------|
| (IVII IZ) | (ubu v/III) | (dbdv/iii) | | (ub) | (ubu v/III) |
| 30.145500 | 27.64 | 40.00 | V | -21.1 | 61.10 |
| 70.255000 | 27.37 | 40.00 | V | -21.7 | 61.70 |
| 84.514000 | 19.94 | 40.00 | V | -22.4 | 62.40 |
| 172.590000 | 23.90 | 43.50 | V | -20.5 | 64.00 |
| 173.705500 | 23.39 | 43.50 | V | -20.4 | 63.90 |
| 944.128000 | 19.91 | 46.00 | V | -0.9 | 46.90 |

Channel No.:39

| Frequency | Result | Limit | Polarity | ARpl | Pmea |
|------------|----------|----------|----------|-------|----------|
| (MHz) | (dBuV/m) | (dBuV/m) | | (dB) | (dBuV/m) |
| 30.000000 | 27.44 | 40.00 | Vertical | -21.2 | 61.20 |
| 32.328000 | 21.15 | 40.00 | Vertical | -20.5 | 60.50 |
| 57.596500 | 17.18 | 40.00 | Vertical | -18.1 | 58.10 |
| 70.497500 | 27.04 | 40.00 | Vertical | -21.7 | 61.70 |
| 172.687000 | 23.86 | 43.50 | Vertical | -20.5 | 64.00 |
| 173.414500 | 23.51 | 43.50 | Vertical | -20.5 | 64.00 |



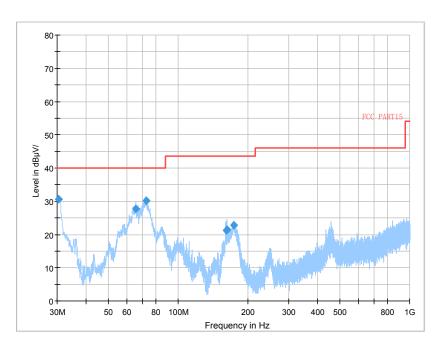


Test with secondary supply worst point:

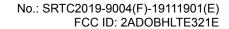
For GFSK (LE) Channel No.:0

| Frequency (MHz) | Result (dBuV/m) | Limit (dBuV/m) | Polarity | ARpl (dB) | Pmea (dBuV/m) |
|--------------------|--------------------|-------------------|----------|--------------|------------------|
| 30.282000 | 16.03 | 40.00 | Vertical | -21.1 | 37.13 |
| 67.217000 | 27.97 | 40.00 | Vertical | -20.8 | 48.77 |
| 79.946000 | 28.07 | 40.00 | Vertical | -23.9 | 51.97 |
| 163.657000 | 22.98 | 43.50 | Vertical | -21.0 | 43.98 |
| 173.017500 | 20.94 | 43.50 | Vertical | -20.5 | 41.44 |
| 460.012500 | 21.18 | 46.00 | Vertical | -10.3 | 31.48 |

Channel No.:0

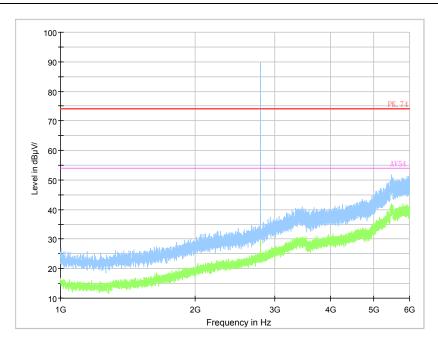


Frequency Range: 30MHz-1000 MHz Detector: QP mode Modulation type: GFSK (LE)

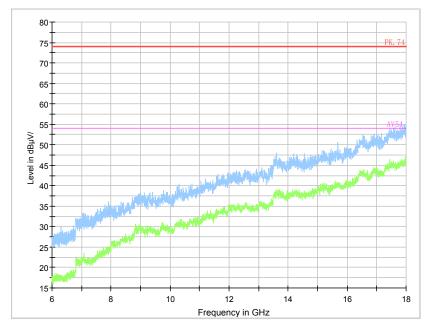


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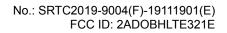


Frequency Range: 1GHz-6GHz Detector: Av mode and PK mode Modulation type: GFSK (LE)



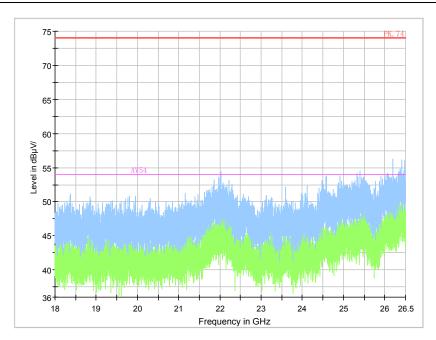
Frequency Range: 6GHz-18GHz Detector: Av mode and PK mode Modulation type: GFSK (LE)

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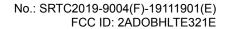


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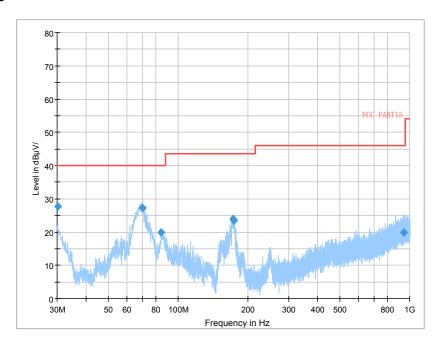
Frequency Range: 18GHz-25GHz Detector: Av mode and PK mode Modulation type: GFSK (LE)



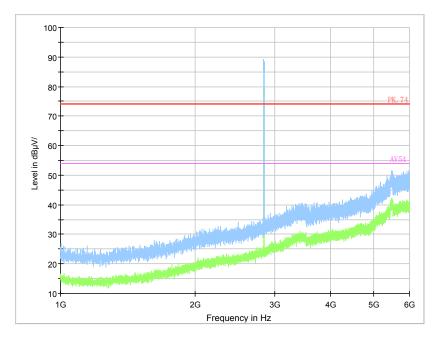
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Channel No.:19

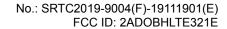


Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: GFSK (LE)



Frequency Range: 1GHz-6GHz Detector: Av mode and PK mode Modulation type: GFSK (LE)

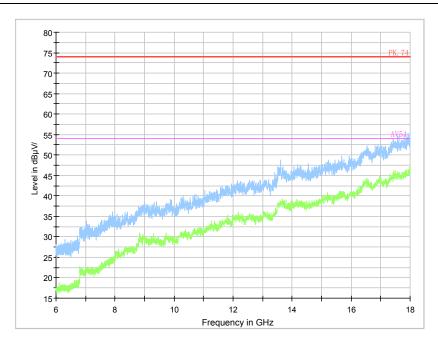
Tel: 86-10-57996183 Fax: 86-10-57996388 V3.0.0



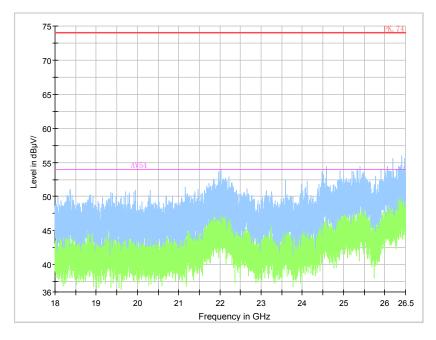
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Frequency Range: 6GHz-18GHz Detector: Av mode and PK mode Modulation type: GFSK (LE)



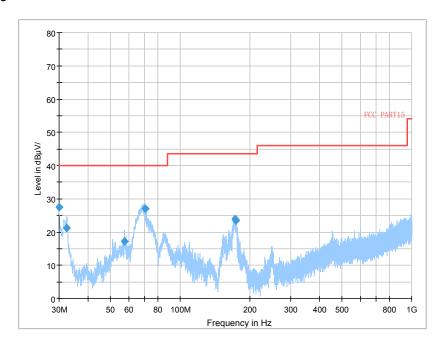
Frequency Range: 18GHz-25GHz Detector: Av mode and PK mode Modulation type: GFSK (LE)

Fax: 86-10-57996388

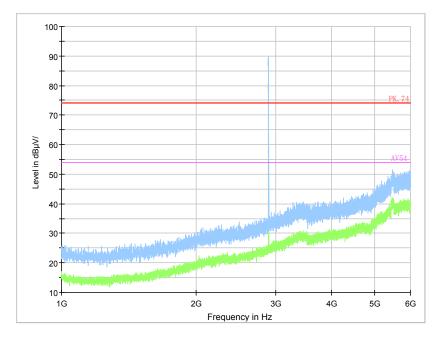
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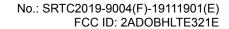
Channel No.:39



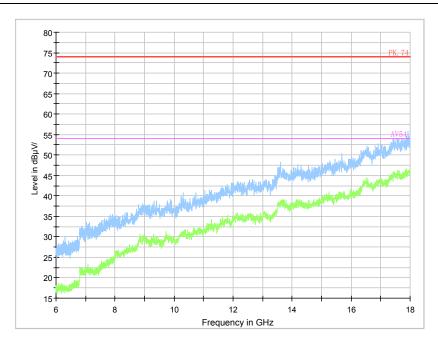
Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: GFSK (LE)



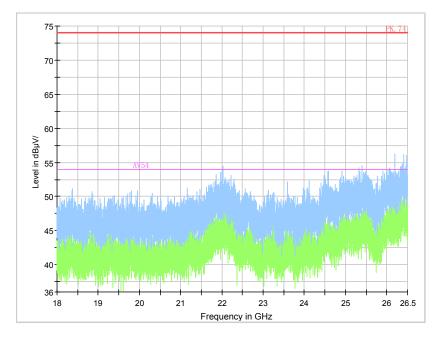
Frequency Range: 1GHz-6GHz Detector: Av mode and PK mode Modulation type: GFSK (LE)





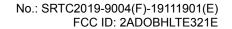


Frequency Range: 6GHz-18GHz Detector: Av mode and PK mode Modulation type: GFSK (LE)



Frequency Range: 18GHz-25GHz Detector: Av mode and PK mode Modulation type: GFSK (LE)

Fax: 86-10-57996388



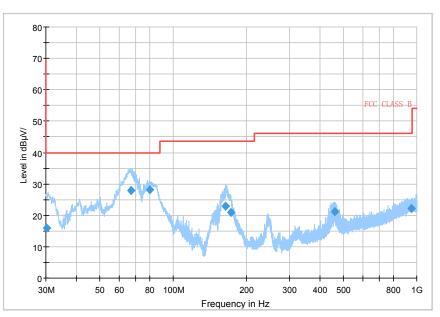
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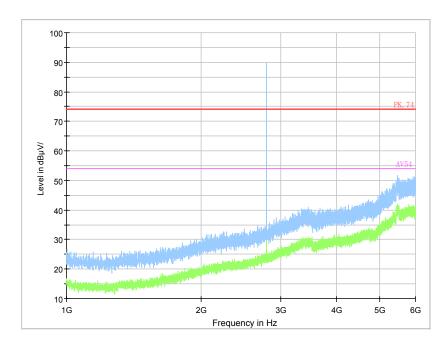
Test with secondary supply worst point:

Channel No.:0

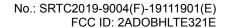




Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: GFSK (LE)

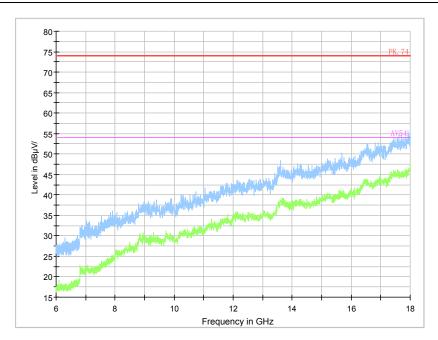


Frequency Range: 1GHz-6GHz Detector: Av mode and PK mode Modulation type: GFSK (LE)

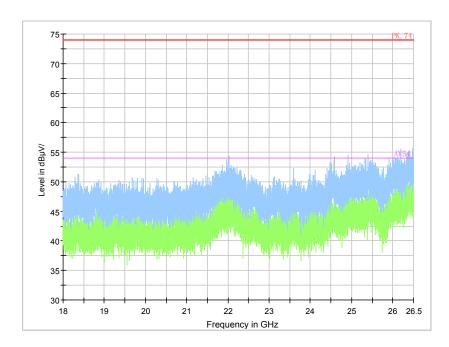


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Frequency Range: 6GHz-18GHz Detector: Av mode and PK mode Modulation type: GFSK (LE)



Frequency Range: 18GHz-25GHz Detector: Av mode and PK mode Modulation type: GFSK (LE)

AC Power line Conducted Emission

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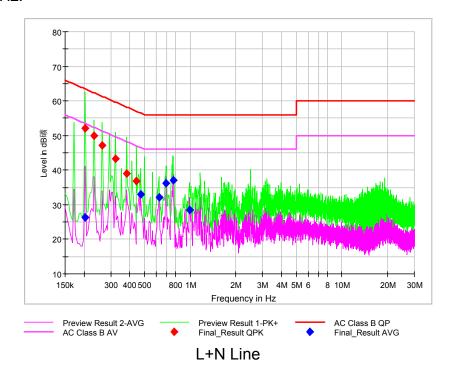


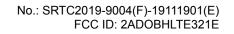
A "reference path loss" Corr.(dB) is established and the L_{cable}+ATT+VDF is the attenuation of " reference path loss", and including the cable loss, the attenuation of the attenuator, the voltage division factor of AMN.

The measurement results are obtained as described below:

Presult=Pmea+ Corr.(dB)

Sample calculation: (26.26 dB μ V) = (-3.44 dB μ V) + (29.7 dB), the corresponding frequency is 0.202676MHz.







Final_Result_AVG

| Frequenc y (MHz) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) | Pmea Average (dBµV) |
|------------------------|-------------------|-----------------|----------------|------|---------------|---------------------------|
| 0.202676 | 26.26 | 53.50 | 27.24 | L1 | 29.7 | -3.44 |
| 0.470449 | 32.97 | 46.51 | 13.54 | L1 | 29.7 | 3.27 |
| 0.624088 | 32.21 | 46.00 | 13.79 | L1 | 29.7 | 2.51 |
| 0.694324 | 36.13 | 46.00 | 9.87 | L1 | 29.7 | 6.43 |
| 0.773338 | 36.95 | 46.00 | 9.05 | L1 | 29.7 | 7.25 |
| 0.992824 | 28.42 | 46.00 | 17.58 | L1 | 29.7 | -1.28 |

Final Result QPK

| <u> </u> | <u> </u> | | | | | |
|------------------------|-------------------------|-----------------|----------------|------|---------------|-----------------------------|
| Frequenc y (MHz) | QuasiPea k (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) | Pmea QuasiPeak (dBµV) |
| 0.202676 | 52.04 | 63.50 | 11.46 | L1 | 29.7 | 22.34 |
| 0.233404 | 49.96 | 62.33 | 12.37 | L1 | 29.7 | 20.26 |
| 0.264132 | 47.08 | 61.30 | 14.22 | L1 | 29.7 | 17.38 |
| 0.321199 | 43.36 | 59.68 | 16.31 | L1 | 29.7 | 13.66 |
| 0.382654 | 39.04 | 58.22 | 19.18 | L1 | 29.7 | 9.34 |
| 0.444110 | 36.77 | 56.99 | 20.21 | L1 | 29.7 | 7.07 |

---End of Test Report---

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V3.0.0