

Test report No: 4394327.50

TEST REPORTRadio Spectrum Matters (RF)

| | Remote control |
|---------------------------------|--|
| Identification of item tested | Nomble control |
| Trademark | I |
| Model and /or type reference | CANACR |
| FCC ID | PUU-CANACR |
| Features | 3Vdc |
| Applicant's name / address | Savant Technologies LLC dba GE Lighting, a Savant company 1975 Noble Road, Cleveland, Ohio, United States, 44112 |
| Test method requested, standard | FCC CFR Title 47 Part15 Subpart C Section 15.247; |
| | KDB558074 D01v05r02; |
| Verdict Summary | COMPLIANCE |
| Tested by (name & signature) | Johnny Bo |
| Approved by (name & signature) | Tim Yan |
| Date of issue | 2022-12-14 |
| Report template No | TRF_EMC 2017-06- FCC_Part15C_247 |

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| Annex 3 - Test Photos |
|-----------------------|
|-----------------------|

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GENERAL CONDITIONS

- 1. This report is only referred to the item that has undergone the test.
- 2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
- This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
- This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.
- 5. This report will not be used for social proof function in China market.

UNCERTAINTY

For all measurements where guidance for the calculation of the instrumentation uncertainty of a measurement is specified in EN 55016-4-2 (CISPR 16-4-2), EN/IEC 61000-4 series or a product standard, the measurement instrumentation uncertainty has been calculated and applied in accordance with these standards.

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

| Ambient temperature | -40 °C – 105 °C |
|-----------------------|------------------|
| Relative Humidity air | 30% - 60% |
| Atmospheric pressure | 86 kPa – 106 kPa |

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

| Test case does not apply to test object | N/A |
|---|-----------------|
| Test object does meet requirement | P (Pass) / PASS |
| Test object does not meet requirement | F (Fail) / FAIL |
| Not tested | N/T |

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DEFINITION OF SYMBOLS USED IN THIS TEST REPORT

| ☑ Indicates that the listed condition, standard or equipment is applicable for this report/test/EUT. | | | | | | |
|--|--|--|--|--|--|--|
| ☐ Indicates that the listed condition, standard or equipment is not applicable for this report/test/EUT. | | | | | | |
| Decimal separator used in this report Comma (,) Point (.) | | | | | | |

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT : Equipment Under Test

QP : Quasi-Peak
CAV : CISPR Average

AV : Average

CDN : Coupling Decoupling Network
SAC : Semi-Anechoic Chamber
OATS : Open Area Test Site

BW: Bandwidth

AM : Amplitude Modulation PM : Pulse Modulation

HCP : Horizontal Coupling Plane
VCP : Vertical Coupling Plane

U_N: Nominal voltage
Tx: Transmitter
Rx: Receiver
N/A: Not Applicable
N/M: Not Measured

DOCUMENT HISTORY

| Report nr. | Date | Description |
|------------|------------|----------------|
| 4394327.50 | 2022-12-14 | First release. |
| | | |

REMARKS AND COMMENTS

The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).

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1 **GENERAL INFORMATION**

1.1 General Description of the Item(s)

| The Control Boothpaton | | |
|---------------------------------------|---|--------------------------------|
| Description of the item | Remote control | |
| Trademark: | 1 | |
| Model / Type number | CANACR | |
| FCC ID | PUU-CANACR | |
| Hardware: | YKQ-AK801-A1.0 | |
| Software: | N/A | |
| Firmware | YKQ-AK801-A1.0 | |
| Ratings: | 3 Vdc | |
| Manufacturer | Same as applicant | |
| Factory: | Same as applicant | |
| The product contains wireless RF mod | dule and the characteristics of wireless mode 2402 MHz – 2480 MHz | ule for BLE mode: |
| Type of Modulation | GFSK | |
| Maximum e.i.r.p | 4.4 dBm | |
| Antenna type: | Integral PCB Antenna | |
| Operating Temperature Range: | -40 °C – 105 °C | |
| Antenna gain: | 3.0 dBi | |
| Adaptive/ non-adaptive equipment | Adaptive | |
| | | |
| Rated power supply: | Voltage and Frequency | Reference poles L1 L2 L3 N PE |
| | AC: | |
| | DC: | |
| | Battery: 3 Vdc | |
| Mounting position | Table top equipment | |
| | Wall/Ceiling mounted equipment | |
| | Floor standing equipment | |
| | Hand-held equipment | |
| | Other: Built-in | |
| | - (-11-) | |
| Intended use of the Equipment Unde | r Test (EUT) | |
| The apparatus as supplied for the tes | t is Remote control intended for residential | use. |
| Model CANACR was chosen for full t | est. | |
| | | |
| Copy of marking plate: | | |
| No provide. | | |

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1.2 Test data

| Test Location | DEKRA Testing and Certification (Shanghai) Ltd. Guangzhou Branch Block 5, No.3, Qiyun Road, Huangpu District, Guangzhou, Guangdong, China |
|----------------------------------|--|
| | FCC Designation Number: CN1324; |
| Date of receipt of test item | 2022-09-29 |
| Date (s) of performance of tests | 2022-09-29 to 2022-10-28 |
| | Normal sample: CANACR (lab on.4394327-1) |
| Test sample | RF conducted sample: CANACR (lab on.4394327-2) |
| | RF radiated sample: CANACR (lab on.4394327-3) |

1.3 The environment(s) in which the EUT is intended to be used

The equipment under test (EUT) is intended to be used in the following environment(s):

| | Residential (domestic) environment. |
|-------------|--|
| \boxtimes | Commercial and light-industrial environment. |
| | Industrial environment. |

1.4 Channel List

The radio module (Bluetooth) operating channels are:

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

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2 **DESCRIPTION OF TEST SETUP**

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

| Operating mode | On exeting made description | Used for methos | | | |
|----------------|-----------------------------|-----------------|-------------|--|--|
| mode | Operating mode description | Conducted | Radiated | | |
| 1 | Transmitting at BLE | \boxtimes | \boxtimes | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| Supplemen | Supplemental information: | | | | |

2.2 Support / Auxiliary equipment / unit / software for the EUT

The EUT has been tested with the following auxiliary equipment / unit / software:

| Auxiliary equipment / unit / software | Type / Version | Manufacturer | Supplied by | | | | |
|---------------------------------------|----------------|--------------|-------------|--|--|--|--|
| Laptop | Latitude 5488 | DELL | DEKRA | | | | |
| EMI Test Tool (soft ware) | V1.1 | - | Client | | | | |
| | | | | | | | |
| | | | | | | | |
| Supplemental information: | | | | | | | |

2.3 Test Configuration / Block diagram used for tests

Refer to Annex 3.

2.4 Measurement procedure

The EUT was controlled by a serial PCB(TELINK BDT) which provided by manufacturer which connected to laptop through the com port. After connected, run the software "EMI Test Tool V1.1" supplied by manufacturer to control the EUT work in required test mode as below table.

| RF Mode | Set_channel(MHz) | Set_power in software | |
|---------|------------------|-----------------------|--|
| | 2402 | 3 | |
| BLE_1M | 2440 | 3 | |
| | 2480 | 3 | |

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3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

| Standard | Year | Description |
|--------------------------|------|---|
| FCC CFR Title 47 Part 15 | 2022 | Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and |
| Subpart C Section 15.247 | | 5725–5850 MHz. |
| KDB 558074 D01 v05r02 | 2019 | Guidance for performing compliance measurements on Digital |
| | | Transmission System (DTS) operating under section 15.247 |
| ANSI C63.10 | 2013 | American National Standard of Procedures for Compliance Testing |
| | | of Unlicensed Wireless Devices |

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

3.3 Overview of results

| FCC measurement | | | | | | | |
|---|---------------------------|---------|--------|--|--|--|--|
| Requirement – Test case | Basic standard(s) | Verdict | Remark | | | | |
| AC Power Line Conducted Emission | FCC 15.207 | N/A | See 1) | | | | |
| Emissions in non-restricted frequency bands | FCC 15.247(d), FCC 15.209 | PASS | | | | | |
| Emissions in restricted frequency bands | FCC 15.247(b)(3) | PASS | | | | | |
| Duty cycle | ANSI C63.10:2013 | PASS | | | | | |
| Band Edge | FCC 15.247(d) | PASS | | | | | |
| Fundamental emission output power | FCC 15.247(d), FCC 15.209 | PASS | | | | | |
| DTS Bandwidth | FCC 15.247(a)(2) | PASS | | | | | |
| Power Spectral Density | FCC 15.247(e) | PASS | | | | | |
| Antenna Requirement | FCC 15.203 | PASS | | | | | |
| Supplementary information: | | | | | | | |
| 1) The EUT is power by battery only. | | | | | | | |

The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to calculate the uncertainty associated with the measurement result.

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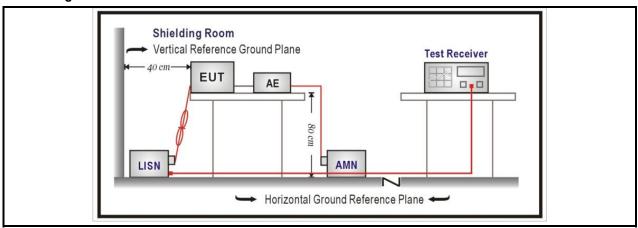
4 TRANSMITTER TEST RESULTS

Limits

| FCC Part 15 Subpart C Paragraph 15.207 | | | | | | |
|---|-----------------------|-----------------------|-------|--------|--|--|
| Frequency range [MHz] Limit: QP [dB(μ V) ¹⁾] Limit: AV [dB(μ V) ¹⁾] IF BW Detector(s) | | | | | | |
| 0,15 - 0,50 | 66 – 56 ²⁾ | 56 - 46 ²⁾ | 9 KHz | QP, AV | | |
| 0,50 - 5,0 | 56 | 46 | 9 KHz | QP, AV | | |
| 5,0 - 30 | 60 | 50 | 9 KHz | QP, AV | | |

¹⁾ At the transition frequency, the lower limit applies.

Test Configuration



Performed measurements

| Port under test | | | Terminal | | | | |
|---|----------------------------|--------------|-------------------------|-----------|------------------|--|--------------|
| AC mains input power | AC mains input power | | | N | | | L2 |
| ☐ DC input power | | | | Positive | (+) | | Negative (-) |
| Test method applied | Artificial mains ne | | | twork | | | |
| Test setup | | Table top | Artificial hand applied | | | | |
| | ☐ Floor standing | | Other: | | | | |
| Refer to the Annex 2 for | | | test se | tup photo |)(s). | | |
| Operating mode(s) used | Mode | 3 | | | | | |
| Envirment condition (temperature; humidiry) | 23,0 °C; 45,0 % | | | | | | |
| Remark | | | | | | | |

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²⁾ The limit decreases linearly with the logarithm of the frequency.

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| Emissions Limit 15.209(a) | | | | | | | | |
|---------------------------|--------------------------|----------------------------|--------------------------|--|--|--|--|--|
| Frequency (MHz) | Field strength (μV/m) | Field strength (dBµV/m) | Measurement distance (m) | | | | | |
| 0.009 - 0.49 | 2400/F(kHz) | 48.5 – 13.8 | 300(Note 1) | | | | | |
| 0.49 - 1.705 | 24000/F(kHz) | 33.8 - 23 | 30 _(Note 1) | | | | | |
| 1.705 - 30 | 30 | 29.5 | 30(Note 1) | | | | | |
| 30 - 88 | 100 | 40 | 3 (Note 2) | | | | | |
| 88 - 216 | 150 | 43.5 | 3 (Note 2) | | | | | |
| 216 - 960 | 200 | 46 | 3 _(Note 2) | | | | | |
| Above 960 | 500 | 54 | 3(Note 2) | | | | | |

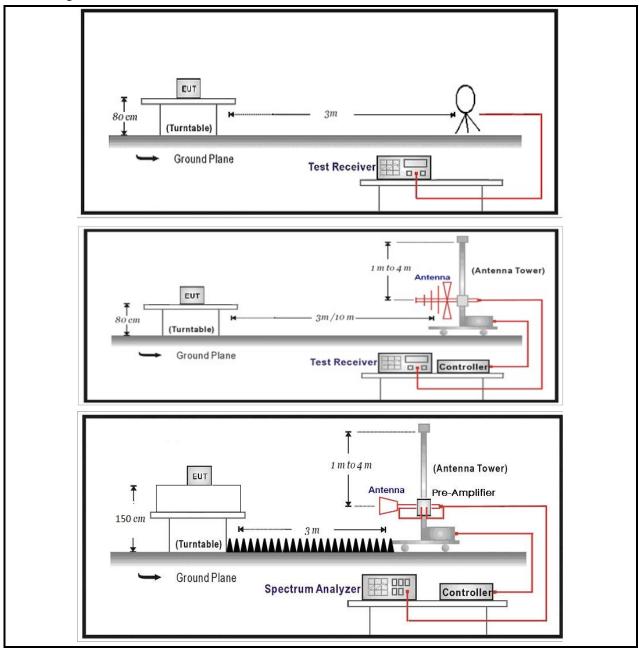
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

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Test Configuration



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Performed measurements

| Port under test | Enclosure port | | | |
|------------------------|--|----------------------|--|--|
| Test method applied | Conducted measurement | | | |
| | \boxtimes | Radiated measurement | | |
| Test setup | Refer to the Annex 3 for test setup photo(s). | | | |
| Operating mode(s) used | Mode 1 | | | |
| | 1)The test frequency range, 9kHz~30MHz, 18GHz~26GHz, both of the worst | | | |
| | case are at least 20dB below the limits, therefore no data appear in the report. | | | |
| Remark | | | | |
| | 2)The EUT are tested in three orientations. The record is the worst orientation | | | |
| | which refer to the Annex 3 for test setup photo(s). | | | |

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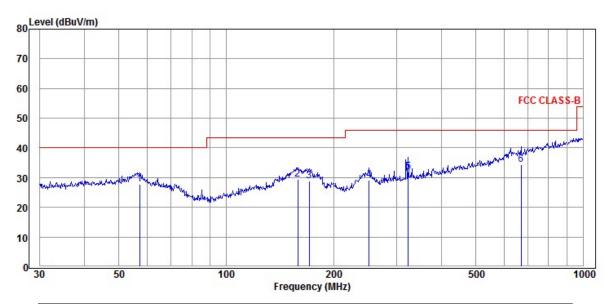


Results of 30 - 1000 MHz

| Model | CANACR |
|----------------|--|
| Operation Mode | Mode 1 @2402MHz – worst case (pretest lowest, middle and highest |
| | channel) |
| Test voltage | 3 Vdc |

Results

Horizontal



| Freq (MHz) | Reading (dBuV) | C.F (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin=limit-result (dB) |
|---------------|-------------------|-------------|--------------------|-------------------|-----------------------------|
| 57.19 | 12.65 | 15.00 | 27.65 | 40.00 | 12.35 |
| 158.67 | 13.98 | 15.31 | 29.29 | 43.50 | 14.21 |
| 170.79 | 14.05 | 14.88 | 28.93 | 43.50 | 14.57 |
| 251.18 | 14.80 | 14.43 | 29.23 | 46.00 | 16.77 |
| 323.32 | 15.11 | 16.82 | 31.93 | 46.00 | 14.07 |
| 670.49 | 10.55 | 23.90 | 34.45 | 46.00 | 11.55 |

Remarks:

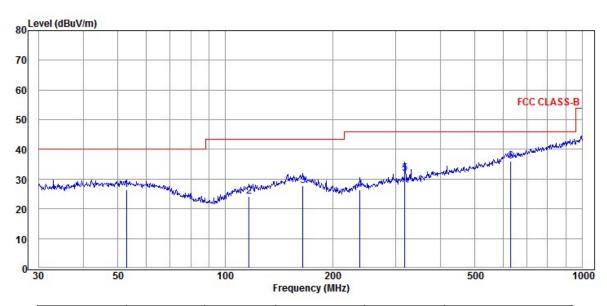
- 1) C.F (Correction Factor) = Antenna factor + Cable loss Preamp gain
- 2) Result = Reading + C.F (Correction Factor)

No other significant emissions were measured at the frequency range of interest employing the QP detectors.

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Vertical



| Freq (MHz) | Reading (dBuV) | C.F (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin=limit-result (dB) |
|---------------|-------------------|-------------|--------------------|-------------------|-----------------------------|
| 52.76 | 11.12 | 15.26 | 26.38 | 40.00 | 13.62 |
| 116.54 | 11.81 | 12.46 | 24.27 | 43.50 | 19.23 |
| 164.91 | 12.49 | 15.29 | 27.78 | 43.50 | 15.72 |
| 238.31 | 12.28 | 14.16 | 26.44 | 46.00 | 19.56 |
| 318.82 | 15.22 | 16.62 | 31.84 | 46.00 | 14.16 |
| 631.69 | 12.59 | 23.48 | 36.07 | 46.00 | 9.93 |

Remarks:

- 1) C.F (Correction Factor) = Antenna factor + Cable loss Preamp gain
- 2) Result = Reading + C.F (Correction Factor)

No other significant emissions were measured at the frequency range of interest employing the QP detectors.

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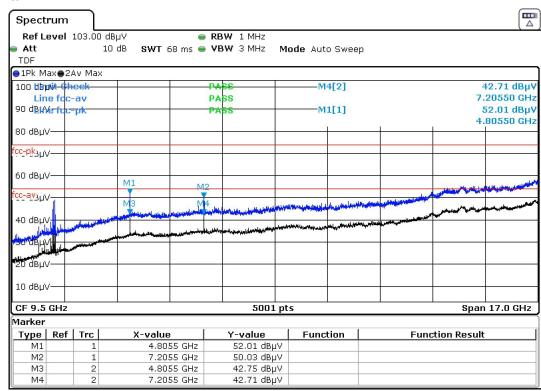


Results of 1 - 18 GHz

| Model | CANACR |
|-----------------------------|------------------|
| Operation Mode (worst case) | Mode 1 @2402 MHz |
| Test voltage | 3 Vdc |

Results

Horizontal



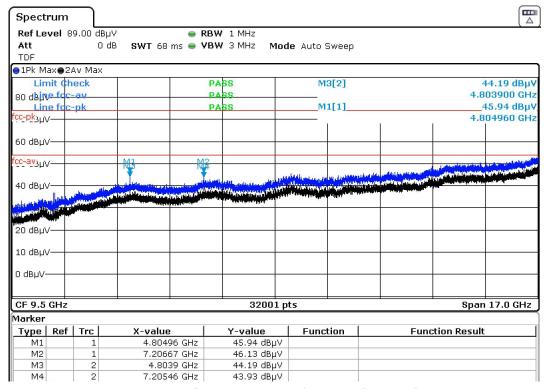
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Vertical



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

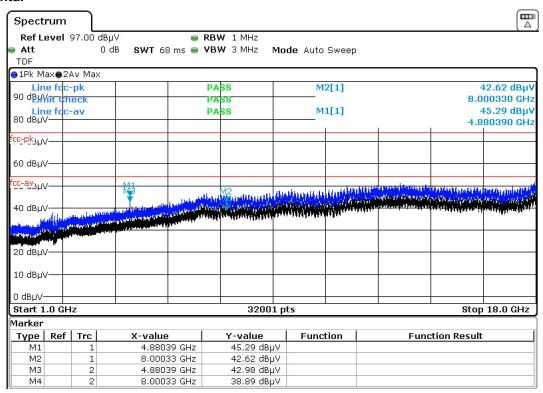
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| Model | CANACR |
|-----------------------------|------------------|
| Operation Mode (worst case) | Mode 1 @2440 MHz |
| Test voltage | 3 Vdc |

Results

Horizontal



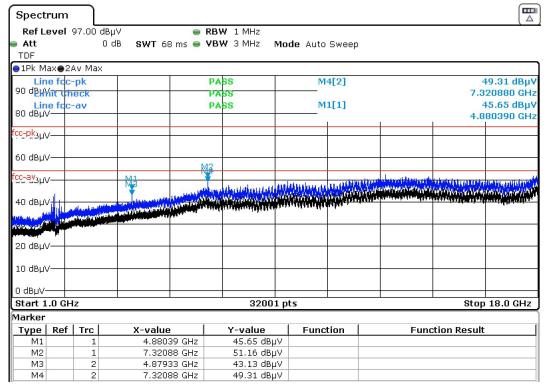
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Vertical



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

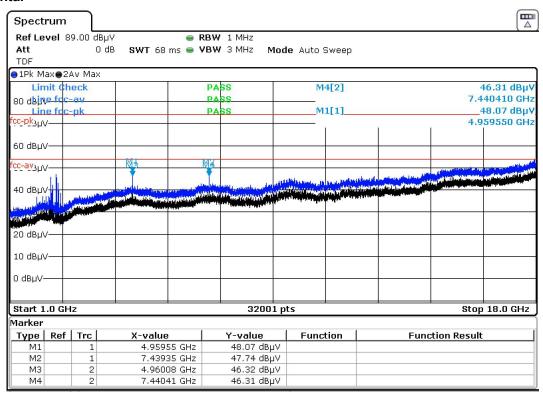
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| Model | CANACR |
|-----------------------------|------------------|
| Operation Mode (worst case) | Mode 1 @2480 MHz |
| Test voltage | 3 Vdc |

Results

Horizontal



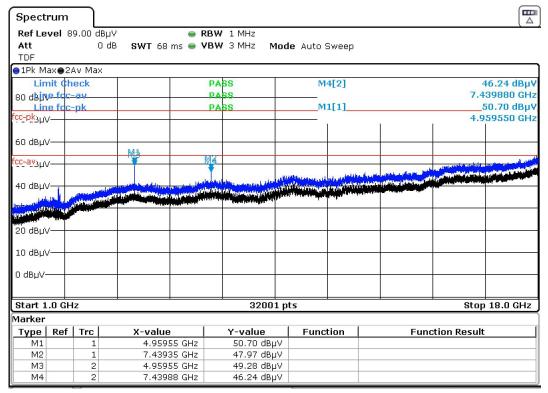
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Vertical



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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4.3 Emissions in restricted frequency bands VERDICT: PASS

| estricted Bands of oper | ation of FCC | | |
|-------------------------|-----------------------|-----------------|---------------|
| Frequency | Frequency | Frequency | Frequency |
| (MHz) | (MHz) | (MHz) | (GHz) |
| 0.090 - 0.110 | 16.42 – 16.423 | 399.9 – 410 | 4.5 – 5.15 |
| 0.495 - 0.505 | 16.69475 –16.69525 | 608 – 614 | 5.35 - 5.46 |
| 2.1735 – 2.1905 | 16.80425 – 16.80475 | 960 – 1240 | 7.25 – 7.75 |
| 4.125 – 4.128 | 25.5 – 25.67 | 1300 – 1427 | 8.025 - 8.5 |
| 4.17725 – 4.17775 | 37.5 – 38.25 | 1435 – 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 – 74.6 | 1645.5 – 1646.5 | 9.3 - 9.5 |
| 6.215 – 6.218 | 74.8 – 75.2 | 1660 – 1710 | 10.6 – 12.7 |
| 6.26775 - 6.26825 | 108 – 121.94 | 1718.8 – 1722.2 | 13.25 – 13.4 |
| 6.31175 - 6.31225 | 123 – 138 | 2200 – 2300 | 14.47 – 14.5 |
| 8.291 - 8.294 | 149.9 – 150.05 | 2310 – 2390 | 15.35 – 16.2 |
| 8.362 - 8.366 | 156.52475 – 156.52525 | 2483.5 – 2500 | 17.7 – 21.4 |
| 8.37625 - 8.38675 | 156.7 – 156.9 | 2690 – 2900 | 22.01 - 23.12 |
| 8.81425 - 8.81475 | 162.0125 – 167.17 | 3260 – 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 – 173.2 | 3332 – 3339 | 31.2 – 31.8 |
| 12.51975-12.52025 | 240 – 285 | 3345.8 – 3358 | 36.43 - 36.5 |
| 12.57675-12.57725 | 322 – 335.4 | 3600 – 4400 | |
| 13.36 – 13.41 | | | |
| estricted Bands of oper | ation for IC | | |
| 0.090 - 0.110 | 13.36 - 13.41 | 960 - 1427 | 9.0 - 9.2 |
| 0.495 - 0.505 | 16.42 - 16.423 | 1435 - 1626.5 | 9.3 - 9.5 |
| 2.1735 - 2.1905 | 16.69475 - 16.69525 | 1645.5 - 1646.5 | 10.6 - 12.7 |
| 3.020 - 3.026 | 16.80425 - 16.80475 | 1660 - 1710 | 13.25 - 13.4 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1718.8 - 1722.2 | 14.47 - 14.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 2200 - 2300 | 15.35 - 16.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 2310 - 2390 | 17.7 - 21.4 |
| 5.677 - 5.683 | 74.8 - 75.2 | 2483.5 - 2500 | 22.01 - 23.12 |
| 6.215 - 6.218 | 108 - 138 | 2655 - 2900 | 23.6 - 24.0 |
| 6.26775 - 6.26825 | 149.9 - 150.05 | 3260 - 3267 | 31.2 - 31.8 |
| 6.31175 - 6.31225 | 156.52475 - 156.52525 | 3332 - 3339 | 36.43 - 36.5 |
| 8.291 - 8.294 | 156.7 - 156.9 | 3345.8 - 3358 | Above 38.6 |
| 8.362 - 8.366 | 162.0125 - 167.17 | 3500 - 4400 | |
| 8.37625 - 8.38675 | 167.72 - 173.2 | 4500 - 5150 | |
| 8.41425 - 8.41475 | 240 - 285 | 5350 - 5460 | |
| 12.29 - 12.293 | 322 - 335.4 | 7250 - 7750 | |
| 12.51975 - 12.52025 | 399.9 - 410 | 8025 - 8500 | |
| 12.57675 - 12.57725 | 608 - 614 | | |

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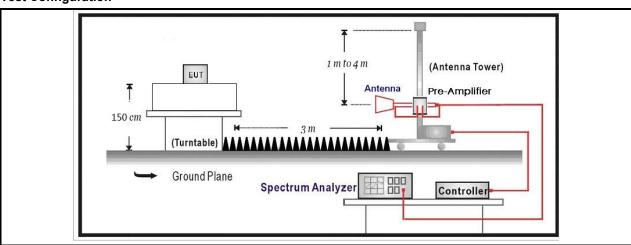


| Restricted Band Emission | s Limit | | |
|--------------------------|--------------------------|----------------------------|--------------------------|
| Frequency (MHz) | Field strength (μV/m) | Field strength (dBµV/m) | Measurement distance (m) |
| 0.009 - 0.49 | 2400/F(kHz) | 48.5 – 13.8 | 300(Note 1) |
| 0.49 - 1.705 | 24000/F(kHz) | 33.8 - 23 | 30 _(Note 1) |
| 1.705 - 30 | 30 | 29.5 | 30 _(Note 1) |
| 30 - 88 | 100 | 40 | 3 _(Note 2) |
| 88 - 216 | 150 | 43.5 | 3(Note 2) |
| 216 - 960 | 200 | 46 | 3 _(Note 2) |
| Above 960 | 500 | 54 | 3(Note 2) |

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

Test Configuration



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Performed measurements

| Port under test | Enclosure port | |
|------------------------|---|-----------------------|
| Test method applied | | Conducted measurement |
| | | Radiated measurement |
| Test setup | Refer to the Annex 3 for test setup photo(s). | |
| Operating mode(s) used | Mode 1 | |
| Remark | | |

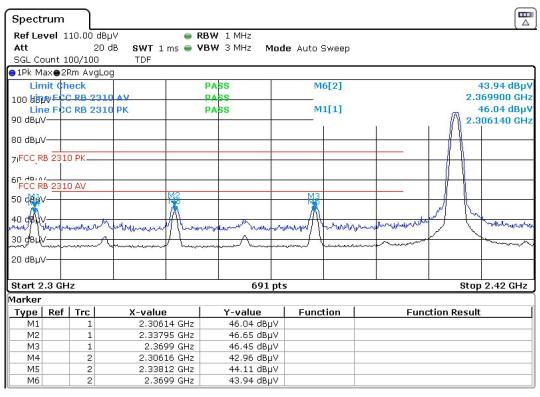
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| Model | CANACR |
|-----------------------------|------------------|
| Operation Mode (worst case) | Mode 1 @2402 MHz |
| Test voltage | 3 Vdc |

Results

Horizontal



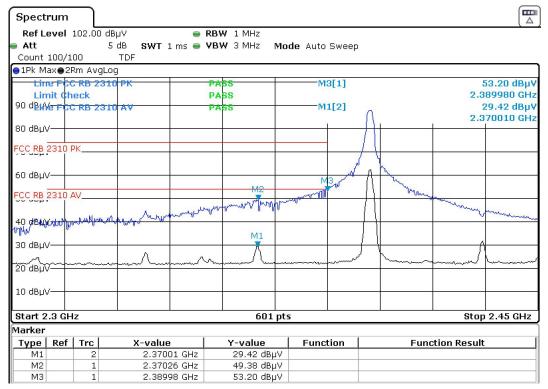
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Vertical



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

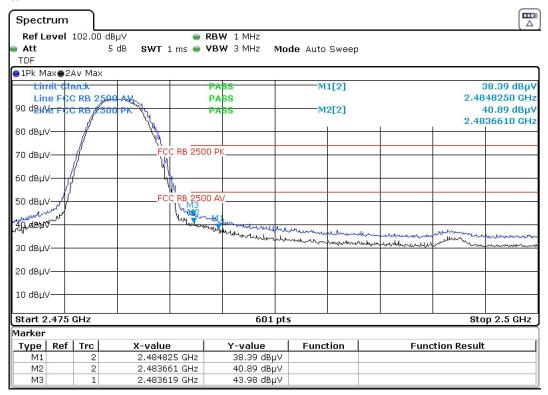
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| Model | CANACR |
|-----------------------------|------------------|
| Operation Mode (worst case) | Mode 1 @2480 MHz |
| Test voltage | 3 Vdc |

Results

Horizontal



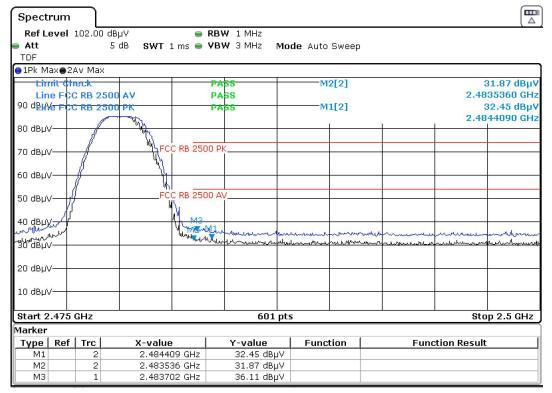
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Vertical



Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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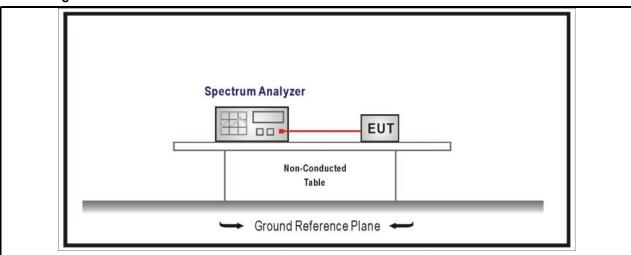
4.4 Band Edge VERDICT: PASS

| Standard | FCC Part 15 Subpart C Paragraph 15.247(d) | | |
|-------------------------------------|---|--------------|--|
| RF Output power (Detection methods) | | Limit(dB) | |
| RF Output power(Average detector) | | 30dBc(Note1) | |
| RF Output power(PK detector) | | 20dBc(Note2) | |

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at by LEast 30 dB relative to the maximum in-band peak PSD by LEvel in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at by least 20 dB relative to the maximum in-band peak PSD by level in 100 kHz (i.e., 20 dBc).

Test Configuration



Performed measurements

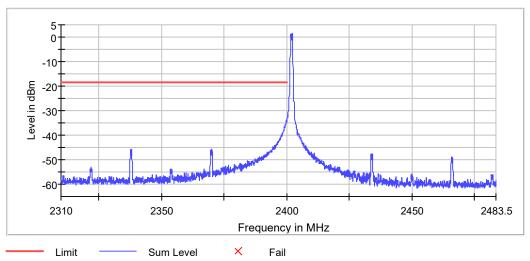
| Port under test | Anter | Antenna port | |
|------------------------|---|-----------------------|--|
| Test method applied | | Conducted measurement | |
| | | Radiated measurement | |
| Test setup | Refer to the Annex 3 for test setup photo(s). | | |
| Operating mode(s) used | Mode 1 | | |
| Remark | | | |

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Results @2402 MHz





Inband Peak

| Frequency | Level |
|-----------|-------|
| (MHz) | (dBm) |
| 2402.0000 | 1.5 |

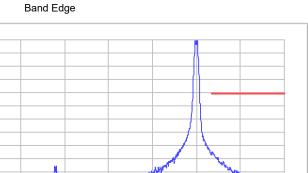
Measurements

| Frequency | Level | Margin | Limit | Result |
|-------------|-------|--------|-------|--------|
| (MHz) | (dBm) | (dB) | (dBm) | |
| 2399.975000 | -33.3 | 14.8 | -18.5 | PASS |
| 2399.925000 | -34.1 | 15.6 | -18.5 | PASS |
| 2399.875000 | -34.1 | 15.6 | -18.5 | PASS |
| 2399.825000 | -34.5 | 16.0 | -18.5 | PASS |
| 2399.775000 | -34.6 | 16.2 | -18.5 | PASS |
| 2399.725000 | -34.7 | 16.2 | -18.5 | PASS |
| 2399.675000 | -35.2 | 16.7 | -18.5 | PASS |
| 2399.625000 | -35.3 | 16.8 | -18.5 | PASS |
| 2399.575000 | -35.5 | 17.1 | -18.5 | PASS |
| 2399.475000 | -35.9 | 17.5 | -18.5 | PASS |
| 2399.525000 | -36.0 | 17.5 | -18.5 | PASS |
| 2399.425000 | -36.0 | 17.6 | -18.5 | PASS |
| 2399.375000 | -36.2 | 17.7 | -18.5 | PASS |
| 2399.325000 | -36.2 | 17.8 | -18.5 | PASS |
| 2399.225000 | -36.6 | 18.1 | -18.5 | PASS |

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Results @2480 MHz



2480

2500

Inband Peak

| -20° | | 4,194-19 | and the fact of the same | had Tondard with | en at a fresh | July (Mariera) A | /Ap.//* |
|----------|--------|----------|--------------------------|--------------------|------------------------------|------------------|-----------------|
| 24 | 100 | 24 | 20 | l 24 | l 40 Freque | 2 ency in M | + :460 Hz |
| | imit - | | Sum Leve | ol ' | | Fail | |

| Frequency | Level |
|-----------|-------|
| (MHz) | (dBm) |
| 2480.0000 | -0.2 |

Measurements

| Frequency | Level | Margin | Limit | Result |
|-------------|-------|--------|-------|--------|
| (MHz) | (dBm) | (dB) | (dBm) | |
| 2483.725000 | -42.5 | 22.3 | -20.2 | PASS |
| 2483.775000 | -42.6 | 22.4 | -20.2 | PASS |
| 2483.525000 | -42.7 | 22.5 | -20.2 | PASS |
| 2483.675000 | -42.7 | 22.5 | -20.2 | PASS |
| 2483.575000 | -42.8 | 22.5 | -20.2 | PASS |
| 2483.625000 | -43.0 | 22.8 | -20.2 | PASS |
| 2483.825000 | -43.0 | 22.8 | -20.2 | PASS |
| 2483.975000 | -43.4 | 23.1 | -20.2 | PASS |
| 2483.925000 | -43.4 | 23.2 | -20.2 | PASS |
| 2483.875000 | -43.4 | 23.2 | -20.2 | PASS |
| 2484.025000 | -43.4 | 23.2 | -20.2 | PASS |
| 2484.075000 | -43.4 | 23.2 | -20.2 | PASS |
| 2484.125000 | -43.6 | 23.4 | -20.2 | PASS |
| 2484.175000 | -43.6 | 23.4 | -20.2 | PASS |
| 2484.225000 | -43.9 | 23.7 | -20.2 | PASS |

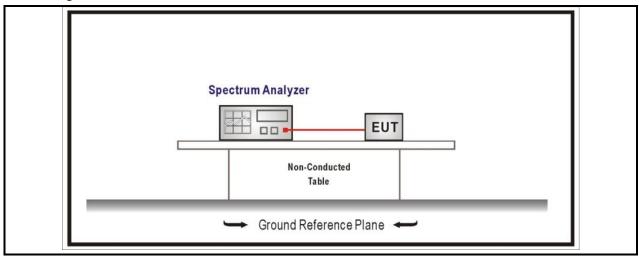
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4.5 Duty cycle VERDICT: PASS

Test Configuration



Performed measurements

| Port under test | Anter | Antenna port | | |
|------------------------|---|-----------------------|--|--|
| Test method applied | \boxtimes | Conducted measurement | | |
| | | Radiated measurement | | |
| Test setup | Refer to the Annex 3 for test setup photo(s). | | | |
| Operating mode(s) used | Mode 1 | | | |
| Remark | | | | |

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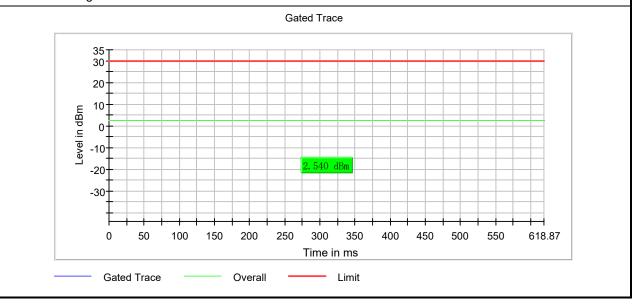


Results

| Test Mode | Tx On (ms) | Tx On + Tx Off (ms) | Duty Cycle |
|-----------|------------|---------------------|------------|
| Mode 1 | | | 100% |

Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control Level for the tested mode of operation.

Note 2: According to KDB 558074, when test for Radiated Emission Band Edge and Radiated Emission, for average detector set: VBW ≥ 1/T will be used.



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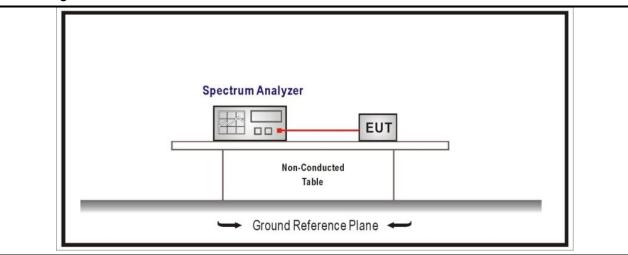


4.6 DTS Bandwidth VERDICT: PASS

| Standard | FCC Part 15 Subpart C Paragraph 15.247 (a)(2) |
|-----------|---|
| Otaliaa a | 1 . 00 . art 10 0aspart 0 . aragrapii 10:2 . (a)(2) |

Systems using digital modulation techniques operate in the 2400-2483.5 MHz .The minimum 6 dB bandwidth shall be at by least 500 kHz

Test Configuration



Performed measurements

| Port under test | Antenna port | | | |
|------------------------|---|-----------------------|--|--|
| Test method applied | \boxtimes | Conducted measurement | | |
| | | Radiated measurement | | |
| Test setup | Refer to the Annex 3 for test setup photo(s). | | | |
| Operating mode(s) used | Mode 1 | | | |
| Remark | | | | |

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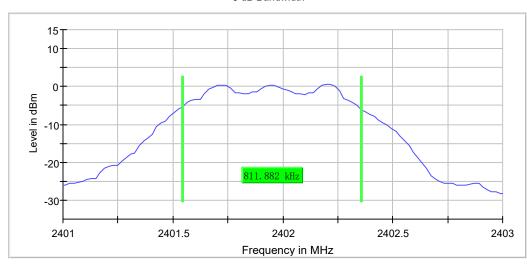
Results

| Mode | CH. | Test Freq. (MHz) | 6dB Occupied Bandwidth (MHz) | Limit (kHz) | Result |
|------|-----|---------------------|---------------------------------|----------------|--------|
| | 0 | 2402 | 0.811 | >500 | Pass |
| 1 | 19 | 2440 | 0.831 | >500 | Pass |
| | 39 | 2480 | 0.851 | >500 | Pass |

6dB Occupied Bandwidth

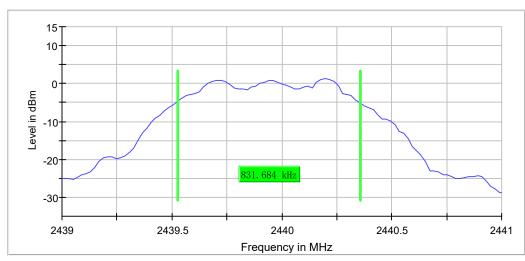
Mode 1 / CH0 (2402MHz)

6 dB Bandwidth



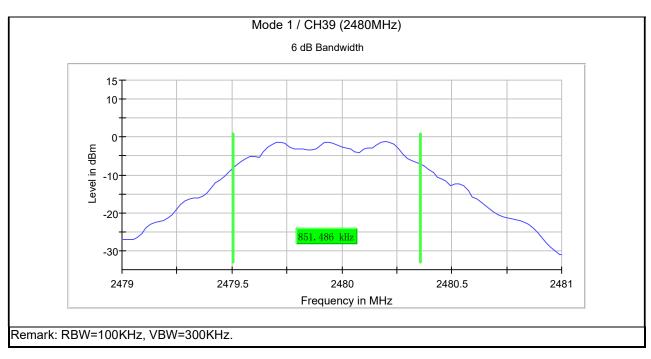
Mode 1 / CH19 (2440MHz)

6 dB Bandwidth



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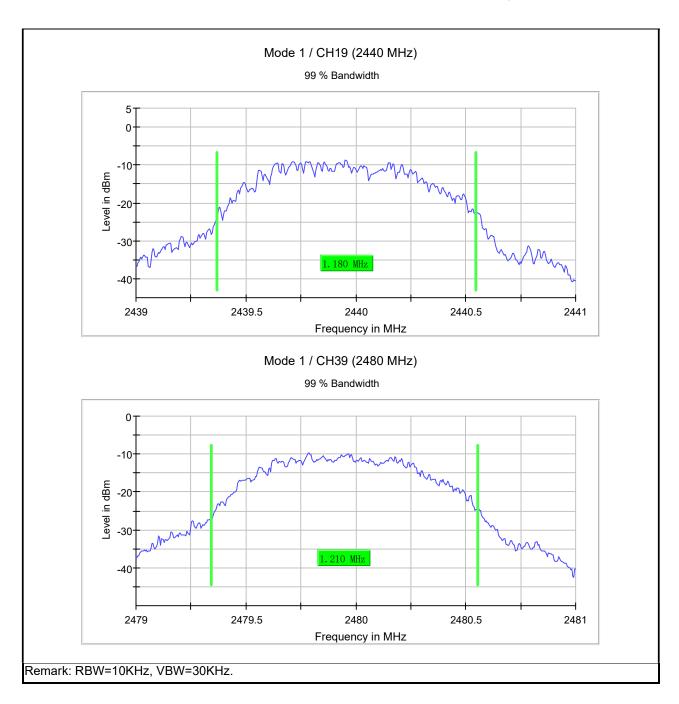




| Mode | CH. | Test Freq. (MHz) | 99% Occupied Bar (MHz) | ndwidth | Limit | : | Result |
|------|---------------|---------------------|--|--|----------------|-----------|--------|
| | 0 | 2402 | 1.170 | | Within frequer | ncy range | Pass |
| 1 | 19 | 2440 | 1.180 | | Within frequer | ncy range | Pass |
| | 39 | 2480 | 1.210 | | Within frequer | ncy range | Pass |
| | | | 99% Occupied Ba | | | | |
| | | | Mode 1 / CH0 (24 | | | | |
| | | | 99 % Bandwi | dth | | | |
| | E - | | | | | | |
| | 57 | | | | | | |
| | | | | | | | |
| | -10 | | 00000000000000000000000000000000000000 | 2 M A | | | |
| | Level in dBm | - | | My, NW | | | |
| | <u>:</u> -20- | | <u> </u> | , , , , , , , , , , , , , , , , , , , | M | | |
| | Leve | V | | | - | | |
| | -30- | mm had | | | 1 | | |
| | - | ~\ ^{\\} \ | 1. 170 MH | z | - W | M_{N_0} | |
| | -40 | | <u> </u> | _ | | - '\ | |
| | 24 | 01 2 | 2401.5 2401.5 2401.5 2401.5 2401.5 2401.5 2401.5 2401.5 2401.5 | | 2402.5 | 2403 | |
| | | | Frequency | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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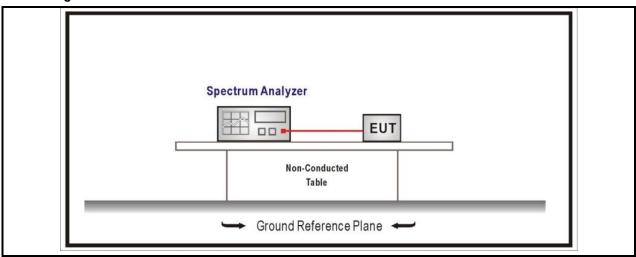
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4.7 Fundamental emission output power VERDICT: PASS

| Stan | dard | | FCC Pa | art 15 Subpart C Paragraph 15.247 (b)(3) | | |
|----------------------------|---|---|--------|--|--|--|
| \boxtimes | GTX < | <6dBi | | Pout≤30dBm | | |
| | GTX : | >6dBi | | | | |
| | | Non-Fix point-point | | Pout≤30-(GTX -6) | | |
| | | Fix point-point | | Pout≤30-[(GTX-6)]/3 | | |
| | | Point-to-multipoint | | Pout≤30-(GTX-6) | | |
| | | Overlap Beams | | Pout≤30-[(GTX-6)]/3 | | |
| | | Aggregate power transmitted simultaneously on all beams | | Pout≤30-[(GTX-6)]/3 | | |
| singby LE directional beam | | | al | Pout≤30-[(GTX-6)]/3+8dB | | |
| Note | Note 1 : GTX directional gain of transmitting antennas. | | | | | |
| Note | Note 2 : Pout is maximum peak conducted output power . | | | | | |

Test Configuration



Performed measurements

| Port under test | Anter | Antenna port | | |
|------------------------|-------------|---|--|--|
| Test method applied | \boxtimes | Conducted measurement | | |
| | | Radiated measurement | | |
| Test setup | Refer | Refer to the Annex 3 for test setup photo(s). | | |
| Operating mode(s) used | Mode | Mode 1 | | |
| Remark | | | | |

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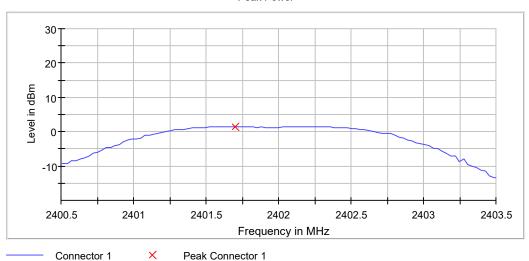


Results

| Mode | Channel | Test Frequency (MHz) | Power Output (dBm) | Limit (dBm) | EIRP (dBm) | EIRP Limit (dBm) | Result |
|------|---------|----------------------------|-----------------------|----------------|---------------|---------------------|--------|
| | 0 | 2402 | 1.4 | ≤30 | 4.4 | ≤36 | Pass |
| BLE | 19 | 2440 | 1.0 | ≤30 | 4.0 | ≤36 | Pass |
| | 39 | 2480 | -0.3 | ≤30 | 3.7 | ≤36 | Pass |

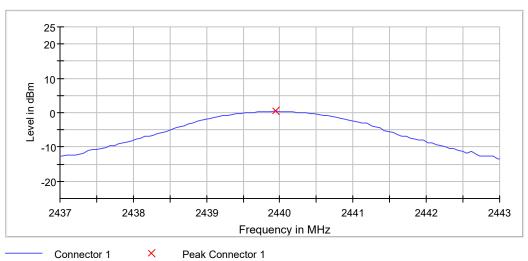
Data of BLE

Peak Power



RBW=1MHz, VBW=3MHz

Peak Power

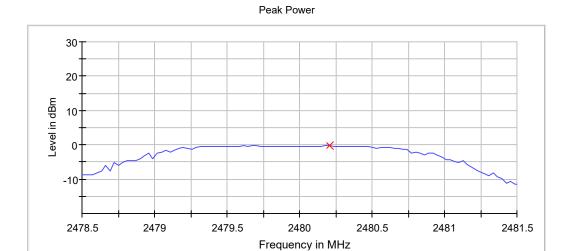


RBW=1MHz, VBW=3MHz

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RBW=1MHz, VBW=3MHz

Peak Connector 1

X

Connector 1

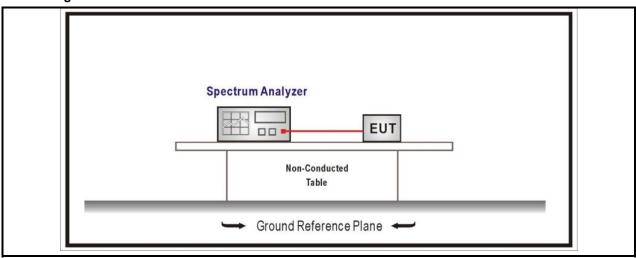
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4.8 Power Density VERDICT: PASS

| Standard | FCC Part 15 Subpart C Paragraph 15.247 (b)(3) | | |
|-----------------------------|---|--|--|
| Power Spectral Density≤8dBm | /3kHz | | |

Test Configuration



Performed measurements

| Port under test | Antenna port | | | |
|------------------------|--------------|---|--|--|
| Test method applied | | Conducted measurement | | |
| Radiated measurement | | Radiated measurement | | |
| Test setup | Refe | Refer to the Annex 3 for test setup photo(s). | | |
| Operating mode(s) used | Mode 1 | | | |
| Remark | | | | |

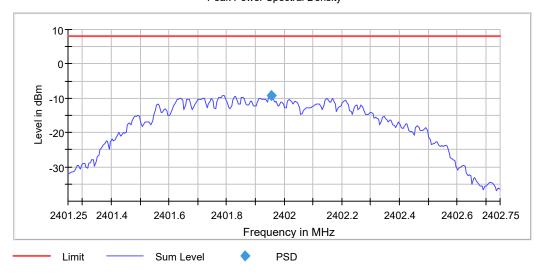
Results

| Mode | Channel | Test Frequency (MHz) | Power Output (dBm) | Limit (dBm/3kHz) | Result |
|------|---------|----------------------------|-----------------------|---------------------|--------|
| | 0 | 2402 | -9.103 | ≤8 | Pass |
| 1 | 19 | 2440 | -9.028 | ≤8 | Pass |
| | 39 | 2480 | -9.719 | ≤8 | Pass |

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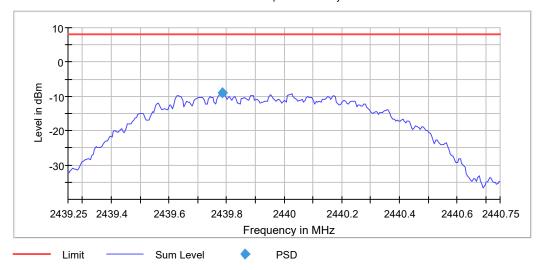


Data of BLE
Peak Power Spectral Density



RBW=10KHz, VBW=30KHz

Peak Power Spectral Density

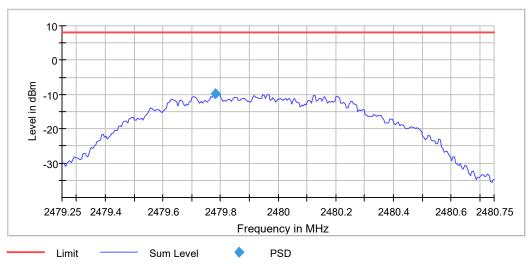


RBW=10KHz, VBW=30KHz

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Peak Power Spectral Density



RBW=10KHz, VBW=30KHz

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5 **IDENTIFICATION OF THE EQUIPMENT UNDER TEST**

The photographs show the tested device.

Refer to documents External photo and Internal photo.

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ANNEX 1 – MEASUREMENT UNCERTAINTY

| Test Item | Uncertainty |
|-----------------------------------|-------------|
| Occupied Channel Bandwidth | ±0,7% |
| RF Output power, conducted | ±0,6dB |
| Power Spectral Density, Conducted | ±0,6dB |
| Unwanted Emissions, Conducted | ±0.7dB |
| Spurious (30-1000MHz) | ±4,4dB |
| Spurious (1-18GHz) | ±4,4dB |

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ANNEX 2 - USED EQUIPMENT

Continuous disturbances conducted (150 kHz to 30 MHz)

| Item | Instrumentation | Manufacturer | Model No. | Serial No. | DEKRA No. | Cal. Due date |
|------|-----------------|-----------------|-----------|------------|-----------|---------------|
| 1 | EMI Receiver | R&S | ESCI | 101206 | G/L858 | 2023/07/21 |
| 2 | LISN | R&S | ENV216 | 101336 | G/L859 | 2023/07/21 |
| 3 | Shielding Room | Changzhou Feite | / | / | G/L861 | 2023/06/17 |

Emissions in non-restricted frequency bands/ Emissions in restricted frequency bands

| Item | Instrumentation | Manufacturer | Model No. | Serial No. | DEKRA No. | Cal. Due date |
|------|---|--------------|-----------|---------------------|-----------|---------------|
| 1 | EMI receiver | R&S | ESCI | 101205 | G/L857 | 2023/07/21 |
| 2 | Antenna (30MHz-3GHz) | SCHWARZBECK | VULB9168 | 01229 | GZ2018 | 2023/01/25 |
| 3 | Chamber | ETS | / | / | G/L856 | 2024/06/10 |
| 4 | Antenna (1GHz-18GHz) | R&S | HF907 | 102306 | G/L1236 | 2023/02/23 |
| 5 | Horn antenna preamplifier | Schwarzbeek | SCU-18 | 102234 | G/L1236-1 | 2023/02/21 |
| 6 | Spectrum analyzer | R&S | FSV | SN101012 | G/L1235 | 2023/01/17 |
| 7 | HF antenna (18 – 26.5 GHz) | ETS | 3160-09 | 00164643 | G/L1237 | 2023/01/16 |
| 8 | High frequency antenna preamplifier (18 – 26.5 GHz) | Schwarzbeck | SCU-26 | 1879064 | G/L1237-1 | 2023/01/10 |
| 9 | Broadband horn antenna (15 – 40 GHz) | Schwarzbeck | BBHA9170 | 00908 | GZ1901 | 2023/05/06 |
| 10 | High frequency antenna preamplifier (18 – 26.5 GHz) | Schwarzbeck | SCU-26 | 1879064 | G/L1237-1 | 2023/01/10 |
| 11 | Annular magnetic field antenna | TESEQ | HLA6121 | 540045 | GZ1905 | 2023/05/12 |
| 12 | Test software | AUDIX | e3 | Version 6.130520 | | |

Duty cycle/Band Edge/Fundamental emission output power/DTS Bandwidth/Power Spectral Density

| Item | Instrumentation | Manufacturer | Model | Serial no. | DEKRA No. | Cal Due date |
|------|-------------------|--------------|---------|------------|-----------|--------------|
| 1 | Spectrum analyzer | R&S | FSV | SN101012 | G/L1235 | 2023/01/17 |
| 2 | Chamber | ETS | 1 | / | G/L856 | 2024/06/10 |
| 3 | OSP | R&S | OSP 150 | 101907 | GZ1894 | 2023/04/27 |
| 4 | Test software | R&S | WMS32 | Version | | |
| | | | | 11.40.00 | | |

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ANNEX 3 - TEST PHOTOS

Refer to document Test setup.

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