Report on the FCC and IC Testing of the Robert Bosch Power Tools GmbH

Model: GCY 300-42

In accordance with FCC 47 CFR Part 15C, ISED Canada RSS-210 and ISED Canada RSS-GEN

Prepared for: Robert Bosch Power Tools GmbH 70538 Stuttgart Germany

FCC ID: TXTGCY300-42 IC: 909H-GCY30042

COMMERCIAL-IN-CONFIDENCE

Date: 2021-07-19

Document Number: TR-57696-17551-03 | Issue: 02

| RESPONSIBLE FOR | NAME | DATE | SIGNATURE |
|----------------------|----------------|------------|---------------------------|
| Project Management | Michael Ingerl | 2021-07-19 | M. January Sign-1D 538027 |
| Authorised Signatory | Alex Fink | 2021-08-06 | Simh SIGN-1D 540208 |

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Product Service document control rules.

ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15C and ISED Canada RSS-210 and ISED Canada RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

| RESPONSIBLE FOR | NAME | | DATE | | SIGNATURE |
|---|----------------|--|----------|------------------------|---------------------------|
| Testing | Michael Ingerl | | 2021-07- | 19 | M. January Sign-10 538028 |
| Laboratory Accreditation DAkkS Reg. No. D-PL-113 | 21-11-02 | Laboratory recognition Registration No. BNetzA-CAB-16 | /21-15 | ISED Canada 3050A-2 | test site registration |
| DAkkS Reg. No. D-PL-113 | | 5 | | | |

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15C, ISED Canada RSS-210, Issue 10 (2019-12) and ISED Canada RSS-GEN, Issue 5 (2018-04).

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Contents

| 1 | Report Summary | 2 |
|--|--|----------------------------------|
| 1.1 | Report Modification Record | 2 |
| 1.2 | Introduction | 2 |
| 1.3 | Brief Summar of Results | |
| 1.4 | Basic information of EUT | |
| 1.5 | EUT Modification Record | |
| 1.6 | Test Location | 5 |
| 2 | Test Setup | 6 |
| 2.1 | Radiated Emission in Fully or Semi Anechoic Room | 6 |
| 2.2 | Radiated Emission at Alternative Test Site | |
| • | | |
| 3 | Test Details | 10 |
| 3 3.1 | | |
| • | Spurious Emissions | 10 |
| 3.1 | Spurious Emissions | 10 21 |
| 3.1 3.2 | Spurious Emissions Restricted Band Edges | 10 21 24 |
| 3.1 3.2 3.3 | Spurious Emissions Restricted Band Edges Authorised Band Edges | 10 21 24 27 |
| 3.1 3.2 3.3 3.4 | Spurious Emissions Restricted Band Edges Authorised Band Edges Emission Bandwidth Power Spectral Density | 10 21 24 27 35 |
| 3.1 3.2 3.3 3.4 3.5 | Spurious Emissions Restricted Band Edges Authorised Band Edges Emission Bandwidth | 10 21 24 27 35 37 |
| 3.1 3.2 3.3 3.4 3.5 3.6 | Spurious Emissions Restricted Band Edges Authorised Band Edges Emission Bandwidth Power Spectral Density Maximum Conducted Output Power | |

Annex B: External Photos Annex C: Internal Photos



1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

| Issue | Description of Change | Date of Issue |
|-------|---|---------------|
| 1 | First Issue | 2021-06-30 |
| 2 | Added Serial Numbers, HW and SW Version at chapter 1.2. Corrected Type of equipment and Type of Antennas at chapter 1.4. | 2021-07-19 |

Table 1

1.2 Introduction

| Applicant | Robert Bosch Power Tools GmbH | | | | | | | |
|----------------------------------|--|---|----------|------------|------------|----------------------|--|--|
| Manufacturer | Robert Bosch F | Robert Bosch Power Tools GmbH | | | | | | |
| Model Number(s) | GCY 300-42 | GCY 300-42 | | | | | | |
| Serial Number(s) | Description | Conducted | Radiated | Modulation | Remarks | Serial Number | | |
| | CW, max power application, high channel | | х | modulated | potted | 124V00224 2480MHZ | | |
| | prepared with control wires, antenna port fitted on PCB | prepared with control wires, antenna port X N N N N N N N N N N N N N N N N N N | | | | | | |
| Hardware Version(s) | 1.1.6 | 1.1.6 | | | | | | |
| Software Version(s) | 2.6.0 | | | | | | | |
| Number of Samples Tested | 2 | | | | | | | |
| Test Specification/Issue/Date | FCC 47 CFR P ISED Canada F | | | | , Issue 10 | (2019-12) and | | |
| Test Plan/Issue/Date | | | | | | | | |
| Order Number | 5487175 | | | | | | | |
| Date of Receipt of EUT | 2021-06-04 | | | | | | | |
| Start of Test | 2021-06-08 | | | | | | | |
| Finish of Test | 2021-06-25 | | | | | | | |
| Name of Engineer(s) | Michael Ingerl | | | | | | | |
| Related Document(s) | ANSI C63.10 (2 | 2013) | | | | | | |



1.3 Brief Summar of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15C and ISED Canada RSS-210 and ISED Canada RSS-GEN is shown below.

| Section | Specification Clause | Test Description | Result | Comments/Base Standard |
|---------------|-----------------------------------|---------------------------------|--------|------------------------|
| Configuration | | | | |
| 3.1 | 15.247 (d), 15.205, B.10 and 6.13 | Spurious Radiated Emissions F | | ANSI C63.10 (2013) |
| 3.2 | 15.205 N/A and 8.10 | Restricted Band Edges | Pass | ANSI C63.10 (2013) |
| 3.3 | 15.247 (d), B.10 and N/A | Authorised Band Edges | Pass | ANSI C63.10 (2013) |
| 3.4 | 15.247 (a)(2), N/A and 6.6 | Emission Bandwidth | Pass | ANSI C63.10 (2013) |
| 3.5 | 15.247 (e), N/A and 6.12 | Power Spectral Density | Pass | ANSI C63.10 (2013) |
| 3.6 | 15.247 (b), 5.4 and 6.12 | Maximum Conducted Output Power | Pass | ANSI C63.10 (2013) |
| 3.7 | RSS-Gen, 6.11 | Transmitter frequency stability | Pass | |

Table 2



1.4 Basic information of EUT

| Equipment characteristics: | Equipment characteristics: | | | | | |
|--|---|---|----------------------|--|--|--|
| Type designation | GCY 300-42 | | | | | |
| Type of equipment: | Connectivity Module | | | | | |
| Power supply: | AC Nominal: Minimum: Maximum: Nominal frequency: Hz | DC Nominal: 5V Minimum: 4.75V Maximum: 5.25V | Batterie Nominal: | | | |
| Note for power supply: | Coin cell was at any test in the EUT but power supplied over 5V D | | | | | |
| Kind of equipment: | Transceiver | | | | | |
| Frequency range: | 2400-2483.5 MHz | | | | | |
| Number of RF-channels: | 40 | | | | | |
| Channel spacing | 2 MHz | | | | | |
| Adaptive | No | | | | | |
| FHHS | No | | | | | |
| Type(s) of Modulation (e.g. BPSK, FSK, ASK,) | As per Bluetooth 4.2 Low Ene | rgy Standard | | | | |
| Type of radio transmission / Use of frequency spectrum (e.g. DSSS, OFDM,.) | As per Bluetooth 4.2 Low Energy Standard | | | | | |
| Number / Type of Antenna(s) | Integral Antenna | | | | | |
| Antenna Gain: | 2402 MHz: -0.22 dBi | | | | | |
| | 2440 MHz: -1.08 dBi | | | | | |
| | 2480 MHz: -1.82 dBi | | | | | |
| Temperature Range: | -20°C – 50°C | | | | | |



1.5 EUT Modification Record

The table below details modifications made to the EUT during the test programme. The modifications incorporated during each test are recorded on the appropriate test pages.

| Modification State | odification State Description of Modification still fitted to EUT | | Date Modification Fitted |
|--------------------|---|----------------|-----------------------------|
| 0 | As supplied by the customer (TX 2480 MHz) SN: 124V00224 | Not Applicable | Not Applicable |

Table 3

| Modification State | Description of Modification still fitted to EUT | Modification Fitted By | Date Modification Fitted |
|--------------------|--|------------------------|-----------------------------|
| 0 | As supplied by the customer (Conducted Sample) SN: 124V00222 | Not Applicable | Not Applicable |

Table 4

1.6 Test Location

TÜV SÜD Product Service conducted the following tests at our Straubing Test Laboratory.

| Test Name | Name of Engineer(s) |
|---|---------------------|
| Configuration and Mode: Continuously Transmitting | |
| Spurious Radiated Emissions | Michael Ingerl |
| Restricted Band Edges | Michael Ingerl |
| Authorised Band Edges | Michael Ingerl |
| Emission Bandwidth | Michael Ingerl |
| Power Spectral Density | Michael Ingerl |
| Maximum Conducted Output Power | Michael Ingerl |
| Transmitter frequency stability | Michael Ingerl |

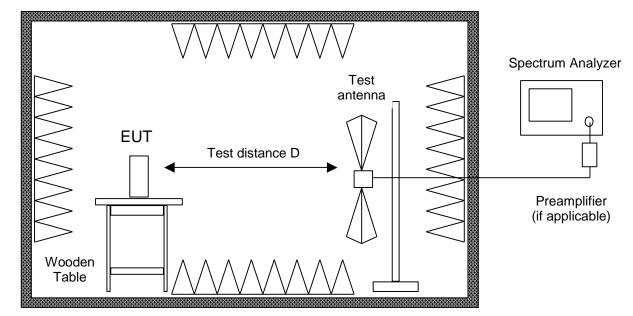
Table 5

Office Address:

Äußere Frühlingstraße 45 94315 Straubing Germany



2 Test Setup



2.1 Radiated Emission in Fully or Semi Anechoic Room

Fully or semi anechoic room

Radiated emission in fully or semi anechoic room is measured in the frequency range from 30 MHz to the maximum frequency as specified in CFR 47 Part 15 section 15.33.

Measurements are made in both the horizontal and vertical planes of polarization using a spectrum analyzer with the detector function set to peak and resolution as well as video bandwidth set to 100 kHz (below 1 GHz) or 1 MHz (above 1 GHz).

Testing up to 1 GHz is performed with a linear polarized logarithmic periodic antenna combined with a 4:1 broadband dipole ("Trilog broadband antenna"). For testing above 1 GHz horn antennas are used.

All tests below 8.2 GHz are performed at a test distance D of 3 meters. For higher frequencies the test distance may be reduced (e.g. to 1 meter) due to the sensitivity of the measuring instrument(s) and the test results are calculated according to CFR 47 Part 15 section 15.31(f)(1) using an extrapolation factor of 20 dB/decade. If required, preamplifiers are used for the whole frequency range. Special care is taken to avoid overload, using appropriate attenuators and filters, if necessary.

If the radiated emission limits are expressed in terms of the average value of the emission there also is a peak limit corresponding to 20 dB above the maximum permitted average limit. Additionally, if pulsed operation is employed, the average field strength is determined by averaging over one complete pulse train, including blanking intervals, as specified in CFR 47 Part 15 section 15.35(c). If the pulse train exceeds 0.1 second that 0.1 second interval during which the value of the emission is at its maximum is selected for calculation. The pulse train correction is added to the peak value of the emission to get the average value.

Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing.

During testing the EUT is rotated all around to find the maximum levels of emissions. Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.

For final testing below 1 GHz a semi anechoic room complying with the NSA requirements of ANSI C63.4 for alternative test sites is used (see 2.2). If prescans are recorded in fully anechoic room they are indicated appropriately.



According to section 13 of KDB558074 the requirement for radiated emissions on the band edges was performed with a reduced bandwidth of 100 kHz instead of 1 MHz.

Radiated emission in the frequency range 9 kHz to 30 MHz is measured using an active loop antenna. First the whole spectrum of emission caused by the equipment is recorded at a distance of 3 meters in a fully or semi anechoic room with the detector of the spectrum analyzer or EMI receiver set to peak. This configuration is also used for recording the spectrum of intentional radiators.

Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing.

EUT is rotated all around to find the maximum levels of emissions. Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.

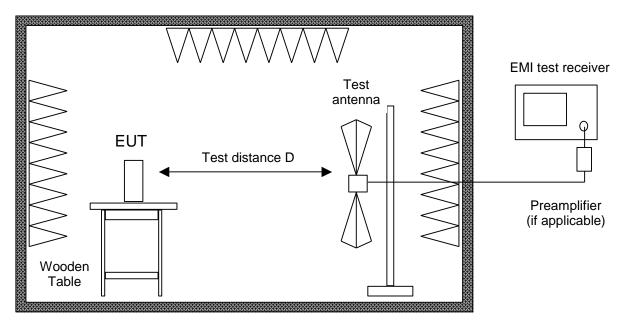
If worst case emission of the EUT cannot be recorded with EUT in standard position and loop antenna in vertical polarization the EUT (or the radiating part of the EUT) is rotated by 90 degrees instead of changing the loop antenna to horizontal polarization. This procedure is selected to minimize the influence of the environment (e.g. effects caused by the floor especially with longer distances).

Final measurement is performed at a test distance D of 30 meters using an open field test site. In case the regulation requires testing at other distances, the result is extrapolated by either making measurements at an additional distance D of 10 meters to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). In cases of very low emissions measurements are performed at shorter distances and results are extrapolated to the required distance. The provisions of CFR 47 Part 15 sections 15.31(d) and (f)(2) apply. According to CFR 47 Part 15 section 15.209(d) final measurement is performed with detector function set to quasipeak except for the frequency bands 9 to 90 kHz and 110 to 490 kHz where, for non-pulsed operation, average detector is employed.

If the radiated emission limits are expressed in terms of the average value of the emission there also is a peak limit corresponding to 20 dB above the maximum permitted average limit. Additionally, if pulsed operation is employed, the average field strength is determined by averaging over one complete pulse train, including blanking intervals, as specified in CFR 47 Part 15 section 15.35(c). If the pulse train exceeds 0.1 second that 0.1 second interval during which the value of the emission is at its maximum is selected for calculation. The pulse train correction is added to the peak value of the emission to get the average value.



2.2 Radiated Emission at Alternative Test Site



Alternate test site (semi anechoic room)

Radiated emission in the frequency range 30 MHz to 1 GHz is measured within a semi-anechoic room with groundplane complying with the NSA requirements of ANSI C63.4 for alternative test sites. A linear polarized logarithmic periodic antenna combined with a 4:1 broadband dipole ("Trilog broadband antenna") is used. The measurement bandwidth of the test receiver is set to 120 kHz with quasi-peak detector selected.

If the radiated emission limits are expressed in terms of the average value of the emission there also is a peak limit corresponding to 20 dB above the maximum permitted average limit. Additionally, if pulsed operation is employed, the average field strength is determined by averaging over one complete pulse train, including blanking intervals, as specified in CFR 47 Part 15 section 15.35(c). If the pulse train exceeds 0.1 second that 0.1 second interval during which the value of the emission is at its maximum is selected for calculation. The pulse train correction is added to the peak value of the emission to get the average value.

Hand-held or body-worn devices are tested in the position producing the highest emission relative to the limit as verified by prescans in fully anechoic room.

If no prescan in a fully anechoic room is used first a peak scan is performed in four positions to get the whole spectrum of emission caused by EUT with the measuring antenna raised and lowered from 1 to 4 m to find table position, antenna height and antenna polarization for the maximum emission levels. Data reduction is applied to these results to select those levels having less margin than 10 dB to or exceeding the limit using subranges and limited number of maximums. Further maximization is following.

With detector of the test receiver set to quasi-peak final measurements are performed immediately after frequency zoom (for drifting disturbances) and maximum adjustment.

Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.

In cases where prescans in a fully anechoic room are taken (e. g. if EUT is operating for a short time only or battery is dircharged quickly) final measurements with quasi-peak detector are performed manually at frequencies indicated by prescan with EUT rotating all around and receiving antenna raising and lowering within 1 meter to 4 meters to find the maximum levels of emission.

Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.



For measuring emissions of intentional radiators and receivers a test distance D of 3 meters is selected. Testing of unintentional radiators is performed at a distance of 10 meters. If limits specified for 3 meters shall be used for measurements performed at 10 meters distance the limits are calculated according to CFR 47 Part 15 section 15.31(d) and (f)(1) using an inverse linear-distance extrapolation factor of 20 dB/decade.



3 Test Details

3.1 Spurious Emissions

3.1.1 Specification Reference

FCC 47 CFR Part 15C, ISED Canada RSS-210 and ISED Canada RSS-GEN

3.1.2 Equipment Under Test and Modification State

GCY 300-42 (TX 2480 MHz), S/N: 124V00224 - Modification State 0 GCY 300-42 (Conducted Sample), S/N: 124V00222 - Modification State 0

3.1.3 Date of Test

2021-06-08 - 2021-06-09

3.1.4 Test Method

Plots for average measurements were taken in accordance with ANSI C63.10-2013 clause 4.1.4.2.3 to characterize the EUT. Where emissions were detected, final average measurements were taken in accordance with ANSI C63.10-2013 clause 4.1.4.2.2.

The plots shown are the characterization of the EUT. The limits on the plots represent the most stringent case for restricted bands, (54/74 dBuV/m) when compared to 20 dBc outside restricted bands. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 10 dB of the limits shown on the plots, further investigation was carried out and reported in results tables.

The following conversion can be applied to convert from $dB\mu V/m$ to $\mu V/m$: 10^(Field Strength in $dB\mu V/m/20$).

3.1.5 Environmental Conditions

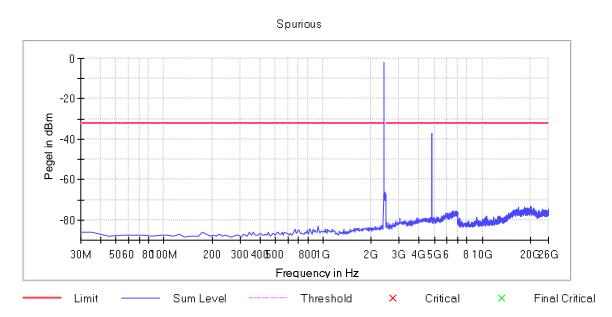
Ambient Temperature23.0 °CRelative Humidity32.0 %

3.1.6 Test Results

Sample calculation of final values:

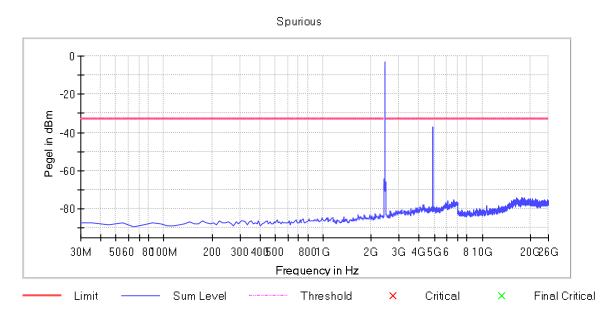
| Final Value (dBµV/m) | = | Reading Value (dBµV) + Cable Correction Factor (dB) |
|----------------------|---|---|
| | | + Antenna Correction Factor (dB/m) |
| | | + Pulse Train Correction (dB) |



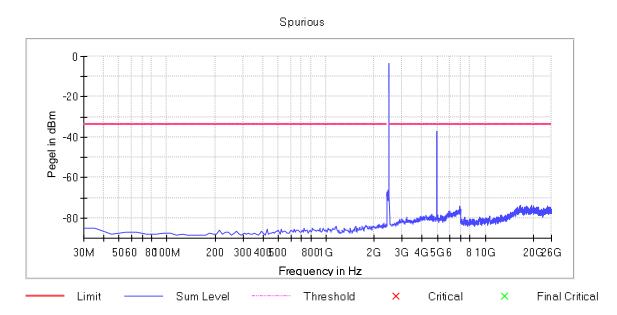


Transmission on 2402 MHz, conducted measurement:

Transmission on 2440 MHz, conducted measurement:





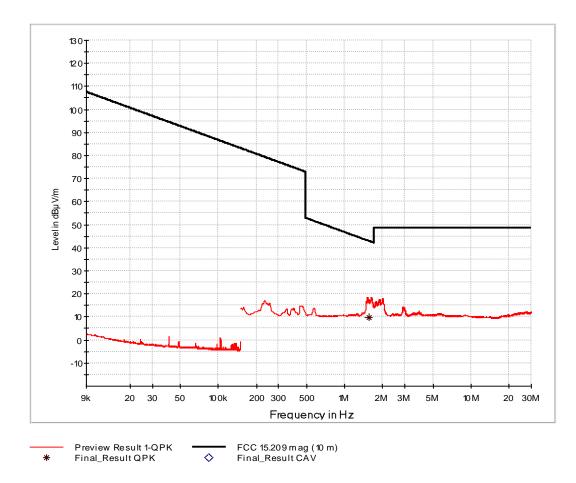


Transmission on 2480 MHz, conducted measurement:



Transmission on 2480 MHz, radiated measurement:

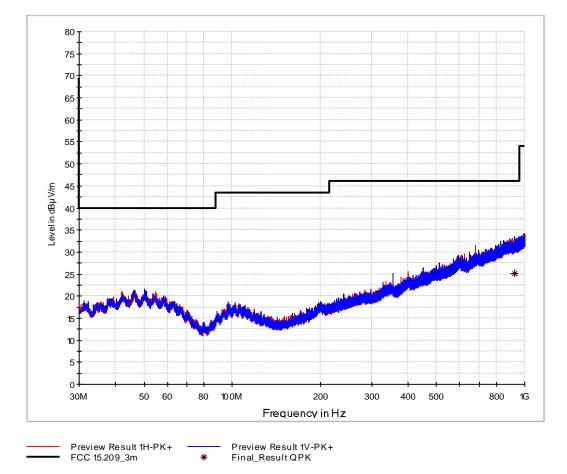
Note: Radiated only measured at Worst Case Position and Channel



Final Results 1:

| | Frequency | QuasiPeak | Limit | Margin | Meas. | Bandwidth | Pol | Azimuth | Corr. |
|---|-----------|-----------|--------|--------|--------|-----------|-----|---------|-------|
| | | | | - | Time | | | | |
| | MHz | dBµV/m | dBµV/m | dB | ms | kHz | | deg | dB/m |
| ſ | 1.560750 | 9.76 | 42.87 | 33.11 | 1000.0 | 9.000 | V | 158.0 | 19.7 |

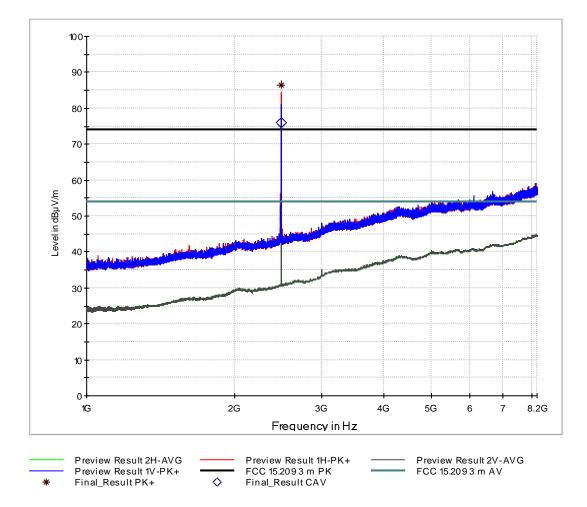




Final Results 1:

| Frequency MHz | QuasiPeak dBµV/m | Limit dBµV/m | Margin dB | Meas. Time ms | Bandwidth kHz | Height cm | Pol | Azimuth deg | Corr. dB/m |
|------------------|---------------------|-----------------|--------------|------------------|------------------|--------------|-----|----------------|---------------|
| 927.450000 | 25.22 | 46.00 | 20.78 | 1000.0 | 120.000 | 107.0 | V | 59.0 | 30.2 |



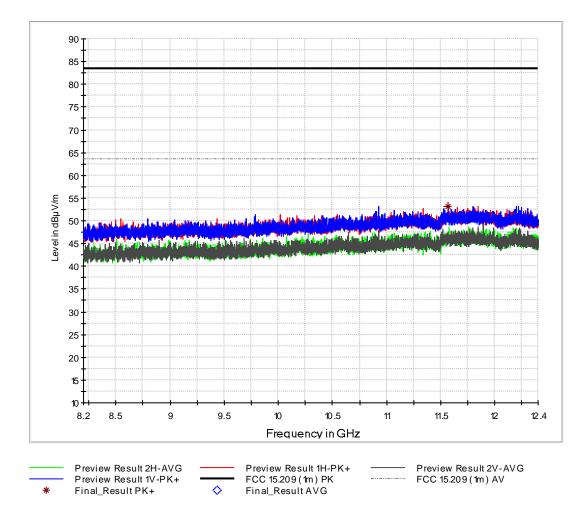


Final Results 1:

| Frequency | MaxPeak | CAverage | Limit | Margin | Meas. | Bandwidth | Height | Pol | Azimuth | Corr. |
|-------------|---------|----------|--------|--------|--------|-----------|--------|-----|---------|-------|
| | | | | | Time | | | | | |
| MHz | dBµV/m | dBµV/m | dBµV/m | dB | ms | kHz | ст | | deg | dB/m |
| 2480.000000 | | 76.01 | #1 | #1 | 1000.0 | 1000.000 | 152.0 | Н | -62.0 | 34.8 |
| 2480.000000 | 86.40 | | #1 | #1 | 1000.0 | 1000.000 | 152.0 | Η | -62.0 | 34.8 |

#1 Intentional radiator

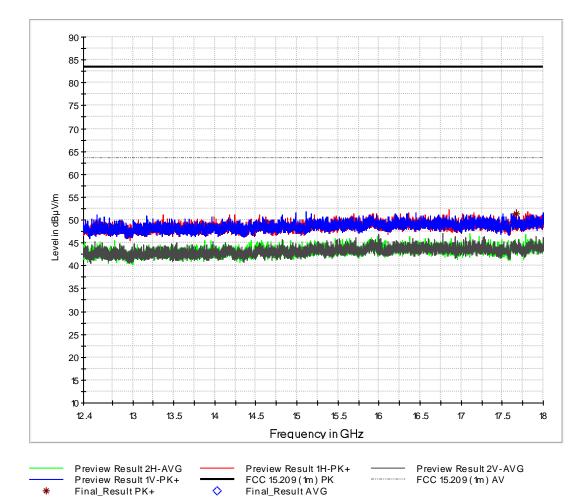




Final Results 1:

| Frequency | MaxPeak | Limit | Margin | Meas. Time | Bandwidth | Height | Pol | Azimuth | Corr. |
|--------------|---------|--------|--------|---------------|-----------|--------|-----|---------|-------|
| MHz | dBµV/m | dBµV/m | dB | ms | kHz | ст | | deg | dB/m |
| 11566.100000 | 53.15 | 83.50 | 30.35 | 5.0 | 1000.000 | 150.0 | Н | 152.0 | 37 |

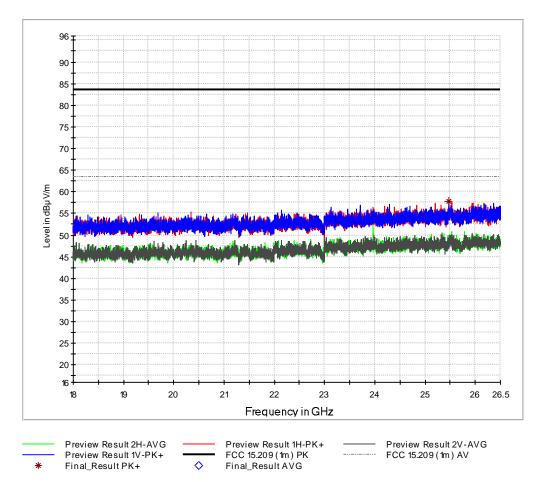




| ults | 1: |
|------|------|
| | uits |

| Frequency | MaxPeak | Limit | Margin | Meas. | Bandwidth | Height | Pol | Azimuth | Corr. |
|--------------|---------|--------|--------|-------|-----------|--------|-----|---------|-------|
| | | | - | Time | | - | | | |
| MHz | dBµV/m | dBµV/m | dB | ms | kHz | ст | | deg | dB/m |
| 17666.100000 | 51.45 | 83.50 | 32.05 | 5.0 | 1000.000 | 150.0 | Н | 152.0 | 37 |





Final Results 1:

| Frequency | MaxPeak | Limit | Margin | Meas. | Bandwidth | Height | Pol | Azimuth | Corr. |
|--------------|---------|--------|--------|-------|-----------|--------|-----|---------|-------|
| | | | - | Time | | - | | | |
| MHz | dBµV/m | dBµV/m | dB | ms | kHz | ст | | deg | dB/m |
| 25481.062500 | 57.75 | 89.50 | 31.75 | 5.0 | 1000.000 | 150.0 | Н | 160.0 | 40 |



FCC 47 CFR Part 15, Limit Clause 15.209

| Frequency (MHz) | Field Strength (µV/m) | Measurement Distance (m) |
|-----------------|-----------------------|--------------------------|
| 0.009 to 0.490 | 2400/F (kHz) | 300 |
| 0.490 to 1.705 | 24000/F (kHz) | 30 |
| 1705 to 30 | 30 | 30 |
| 30 to 88 | 100** | 3 |
| 88 to 216 | 150** | 3 |
| 216 to 960 | 200** | 3 |
| Above 960 | 500 | 5 |

ISED Canada RSS-210

| Frequency | Electric Field Strength $(\mu V/m)$ | Magnetic Field Strength (H- Field) (μΑ/m) | Measurement Distance (m) |
|--------------------|-------------------------------------|--|--------------------------|
| 9 - 490 kHz | 2,400/F (F in kHz) | 2,400/377F (F in kHz) | 300 |
| 490 - 1,705 kHz | 24,000/F (F in kHz) | 24,000/377F (F in kHz) | 30 |
| 1,705 kHz - 30 MHz | 30 | N/A | 30 |

| Frequency (MHz) | Field Strength (μV/m at 3 m) |
|-----------------|------------------------------|
| 30 - 88 | 100 |
| 88 - 216 | 150 |
| 216 - 960 | 200 |
| > 960 | 500 |



3.1.7 Test Location and Test Equipment Used

Radiated Tests were carried out in cabin No.8 and cabin No. 11 and conducted tests were carried out with test system TS8997.

| Instrument | Manufacturer | Туре No | TE No | Calibration Period (months) | Calibration Due |
|-----------------------------------|-----------------|-----------------------------------|-------|-----------------------------------|-----------------|
| EMI test receiver | Rohde & Schwarz | ESW26 | 28268 | 12 | 2021-09-30 |
| Trilog Antenna | Schwarzbeck | VULB9162 | 20116 | 36 | 2022-01-31 |
| EMC measurement software | Rohde & Schwarz | EMC32 Emission K11 - V10.50.10 | 19927 | | |
| Semi Anechoic Room | Albatross | Cabin No. 8 | 19917 | 36 | 2023-10-31 |
| EMI test receiver | Rohde & Schwarz | ESW44 | 39897 | 12 | 2022-04-30 |
| Double ridged horn antenna | Rohde & Schwarz | HF907 | 40089 | 24 | 2023-02-28 |
| Loop antenna | Schwarzbeck | FMZB 1519 B | 44334 | 36 | 2023-01-31 |
| ULTRALOG Antenna | Rohde & Schwarz | HL562E | 39969 | 36 | 2022-11-30 |
| Horn Antenna with preamplifier | Rohde & Schwarz | A-INFOMW LB- 180400H-KF+ TS- | 43661 | 12 | 2021-10-31 |
| EMC measurement software | Rohde & Schwarz | EMC32 Emission K11 - V10.50.10 | 42986 | | |
| Semi Anechoic Room | Frankonia | Cabin No. 11 | 42961 | 36 | 2022-08-31 |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 20219 | 12 | 2022-01-31 |
| Vector Signal Generator | Rohde & Schwarz | SMBV100A | 20238 | 36 | 2022-11-30 |
| Signal Generator | Rohde & Schwarz | SMB100A | 20215 | 36 | 2023-12-31 |
| Switching Device | Rohde & Schwarz | OSP120 I | 20248 | 24 | 2022-02-28 |
| Switching Device | Rohde & Schwarz | OSP120 II | 38807 | 36 | 2023-11-30 |
| EMC Measurement Software | Rohde & Schwarz | EMC32 TS8997 - V10.50.00 | 44381 | | |

Table 6

TU - Traceability Unscheduled O/P Mon – Output Monitored using calibrated equipment N/A - Not Applicable



3.2 Restricted Band Edges

3.2.1 Specification Reference

FCC 47 CFR Part 15C, ISED Canada RSS-210 and ISED Canada RSS-GEN

3.2.2 Equipment Under Test and Modification State

GCY 300-42 (TX 2480 MHz), S/N: 124V00224 - Modification State 0 GCY 300-42 (Conducted Sample), S/N: 124V00222 - Modification State 0

3.2.3 Date of Test

2021-06-08 - 2021-06-09

3.2.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 6.10.5.

Plots for average measurements were taken in accordance with ANSI C63.10 clause 4.1.4.2.3. These are shown for information purposes and were used to determine the worst case measurement point. Final average measurements were then taken in accordance with ANSI C63.10 clause 4.1.4.2.2. to obtain the measurement result recorded in the test results tables.

The following conversion can be applied to convert from $dB\mu V/m$ to $\mu V/m$: 10^(Field Strength in $dB\mu V/m/20$).

3.2.5 Environmental Conditions

| Ambient Temperature | 23.0 °C |
|---------------------|---------|
| Relative Humidity | 32.0 % |

3.2.6 Test Results

Results are shown in chapter 3.1



FCC 47 CFR Part 15, Limit Clause 15.209

| Frequency (MHz) | Field Strength (µV/m at 3 m) |
|-----------------|------------------------------|
| 30 to 88 | 100 |
| 88 to 216 | 150 |
| 216 to 960 | 200 |
| Above 960 | 500 |

Table 7

ISED Canada RSS-GEN, Limit Clause 8.9

| Frequency (MHz) | Field Strength (μ V/m at 3 metres) |
|-----------------|---|
| 30-88 | 100 |
| 88-216 | 150 |
| 216-960 | 200 |
| Above 960* | 500 |

Table 8

*Unless otherwise specified, for all frequencies greater than 1 GHz, the radiated emission limits for licence-exempt radio apparatus stated in applicable RSSs (including RSS-Gen) are based on measurements using a linear average detector function having a minimum resolution bandwidth of 1 MHz. If an average limit is specified for the EUT, then the peak emission shall also be measured with instrumentation properly adjusted for such factors as pulse desensitization to ensure the peak emission is less than 20 dB above the average limit.



3.2.7 Test Location and Test Equipment Used

Radiated Tests were carried out in cabin No.8 and cabin No. 11 and conducted tests were carried out with test system TS8997.

| Instrument | Manufacturer | Туре No | TE No | Calibration Period (months) | Calibration Due |
|-----------------------------------|-----------------|-----------------------------------|-------|-----------------------------------|-----------------|
| EMI test receiver | Rohde & Schwarz | ESW26 | 28268 | 12 | 2021-09-30 |
| Trilog Antenna | Schwarzbeck | VULB9162 | 20116 | 36 | 2022-01-31 |
| EMC measurement software | Rohde & Schwarz | EMC32 Emission K11 - V10.50.10 | 19927 | | |
| Semi Anechoic Room | Albatross | Cabin No. 8 | 19917 | 36 | 2023-10-31 |
| EMI test receiver | Rohde & Schwarz | ESW44 | 39897 | 12 | 2022-04-30 |
| Double ridged horn antenna | Rohde & Schwarz | HF907 | 40089 | 24 | 2023-02-28 |
| Loop antenna | Schwarzbeck | FMZB 1519 B | 44334 | 36 | 2023-01-31 |
| ULTRALOG Antenna | Rohde & Schwarz | HL562E | 39969 | 36 | 2022-11-30 |
| Horn Antenna with preamplifier | Rohde & Schwarz | A-INFOMW LB- 180400H-KF+ TS- | 43661 | 12 | 2021-10-31 |
| EMC measurement software | Rohde & Schwarz | EMC32 Emission K11 - V10.50.10 | 42986 | | |
| Semi Anechoic Room | Frankonia | Cabin No. 11 | 42961 | 36 | 2022-08-31 |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 20219 | 12 | 2022-01-31 |
| Vector Signal Generator | Rohde & Schwarz | SMBV100A | 20238 | 36 | 2022-11-30 |
| Signal Generator | Rohde & Schwarz | SMB100A | 20215 | 36 | 2023-12-31 |
| Switching Device | Rohde & Schwarz | OSP120 I | 20248 | 24 | 2022-02-28 |
| Switching Device | Rohde & Schwarz | OSP120 II | 38807 | 36 | 2023-11-30 |
| EMC Measurement Software | Rohde & Schwarz | EMC32 TS8997 - V10.50.00 | 44381 | | |

Table 9

TU - Traceability Unscheduled O/P Mon – Output Monitored using calibrated equipment N/A - Not Applicable



3.3 Authorised Band Edges

3.3.1 Specification Reference

FCC 47 CFR Part 15C, ISED Canada RSS-210 and ISED Canada RSS-GEN

3.3.2 Equipment Under Test and Modification State

GCY 300-42 (Conducted Sample), S/N: 124V00222 - Modification State 0

3.3.3 Date of Test

2021-06-25

3.3.4 Test Method

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05 8.7 and ANSI C63.10-2013

3.3.5 Environmental Conditions

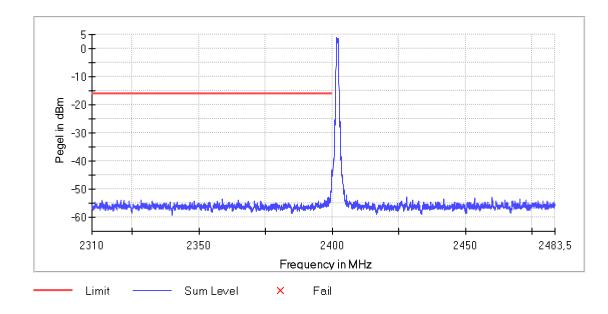
Ambient Temperature22.0 °CRelative Humidity35.0 %

3.3.6 Test Results



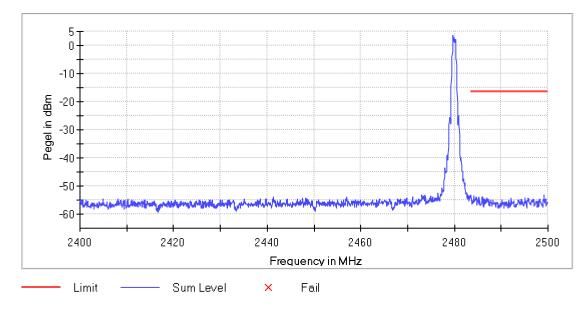
Transmission on 2402 MHz

Band Edge Low



Transmission on 2480 MHz

Band Edge High





FCC 47 CFR Part 15, Limit Clause 15.247 (d)

20 dB below the fundamental measured in a 100 kHz bandwidth using a peak detector. If the transmitter complies with the conducted power limits, based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB below the fundamental instead of 20 dB.

3.3.7 Test Location and Test Equipment Used

Conducted test was carried out in Non-shielded room with Test system TS8997.

| Instrument | Manufacturer | Туре No | TE No | Calibration Period (months) | Calibration Due |
|-----------------------------|-----------------|-----------------------------|-------|-----------------------------------|-----------------|
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 20219 | 12 | 2022-01-31 |
| Vector Signal Generator | Rohde & Schwarz | SMBV100A | 20238 | 36 | 2022-11-30 |
| Signal Generator | Rohde & Schwarz | SMB100A | 20215 | 36 | 2023-12-31 |
| Switching Device | Rohde & Schwarz | OSP120 I | 20248 | 24 | 2022-02-28 |
| Switching Device | Rohde & Schwarz | OSP120 II | 38807 | 36 | 2023-11-30 |
| EMC Measurement Software | Rohde & Schwarz | EMC32 TS8997 - V10.50.00 | 44381 | | |

Table 10

TU - Traceability Unscheduled

O/P Mon – Output Monitored using calibrated equipment N/A - Not Applicable



3.4 Emission Bandwidth

3.4.1 Specification Reference

FCC 47 CFR Part 15C, ISED Canada RSS-210 and ISED Canada RSS-GEN

3.4.2 Equipment Under Test and Modification State

GCY 300-42 (Conducted Sample), S/N: 124V00222 - Modification State 0

3.4.3 Date of Test

2021-06-25

3.4.4 Test Method

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05 and ANSI C63.10-2013 11.8.1

3.4.5 Environmental Conditions

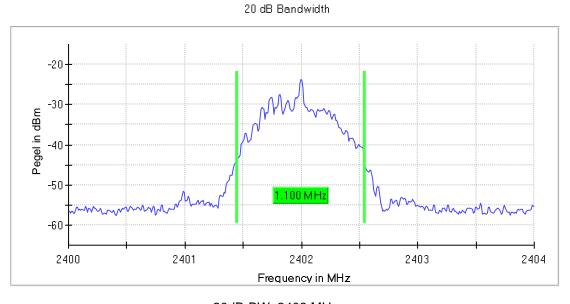
Ambient Temperature22.0 °CRelative Humidity35.0 %

3.4.6 Test Results

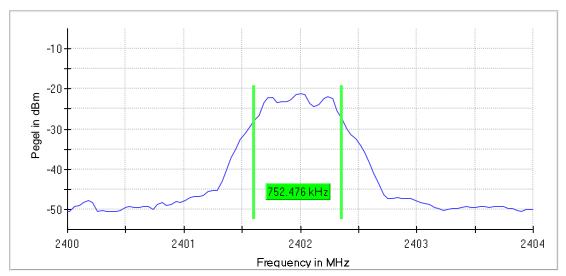
| Frequency (MHz) | 20 dB Bandwidth (MHz) | 6 dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Limit |
|-----------------|-----------------------|----------------------|---------------------------------|-----------|
| 2402 | 1.100 | 0.752 | 1.093 | ≥ 500 kHz |
| 2442 | 1.100 | 0.792 | 1.068 | ≥ 500 kHz |
| 2480 | 1.100 | 0.792 | 1.143 | ≥ 500 kHz |



Transmission on 2402 MHz



20dB-BW, 2402 MHz,

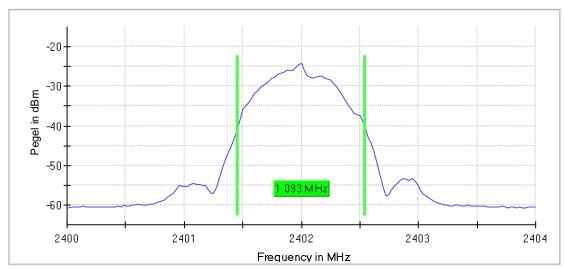


6 dB Bandwidth

6dB-BW, 2402 MHz



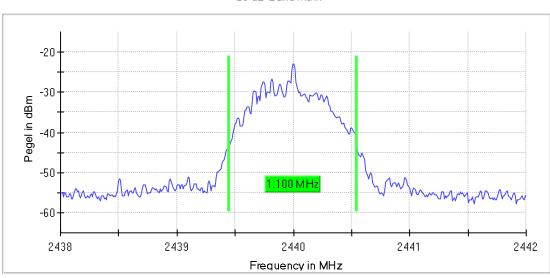




99%-BW, 2402 MHz

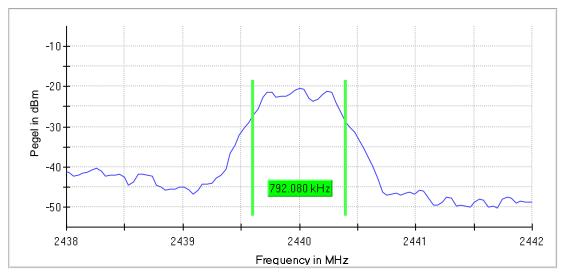


Transmission on 2440 MHz



20 dB Bandwidth

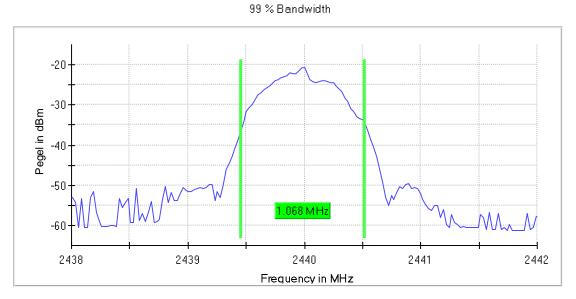
20dB-BW, 2440 MHz



6 dB Bandwidth

6dB-BW, 2440 MHz

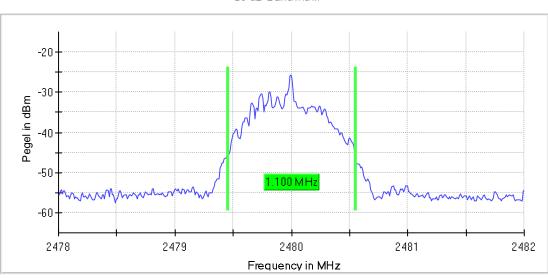




99%-BW, 2440 MHz

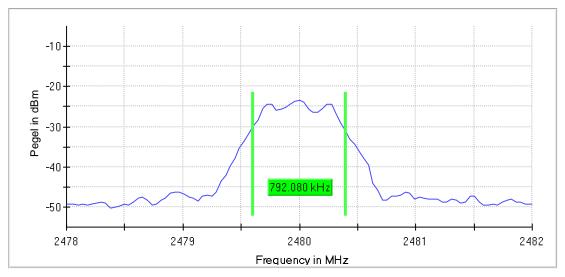


Transmission on 2480 MHz



20 dB Bandwidth

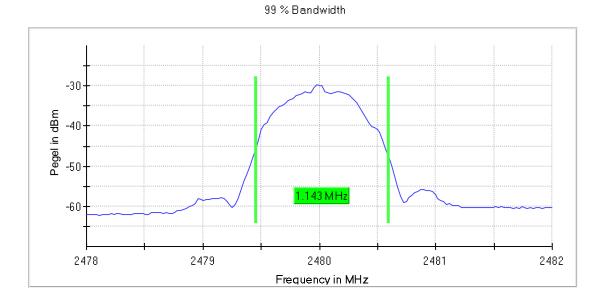
20dB-BW, 2480 MHz



6 dB Bandwidth

6dB-BW, 2480 MHz





99%-BW, 2480 MHz

FCC 47 CFR Part 15, Limit Clause 15.247(a)(2) and ISED Canada RSS-210, Clause 5.2(a)

The minimum 6 dB Bandwidth shall be at least 500 kHz.



3.4.7 Test Location and Test Equipment Used

Conducted test was carried out in Non-shielded room with Test system TS8997.

| Instrument | Manufacturer | Туре No | TE No | Calibration Period (months) | Calibration Due |
|-----------------------------|-----------------|-----------------------------|-------|-----------------------------------|-----------------|
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 20219 | 12 | 2022-01-31 |
| Vector Signal Generator | Rohde & Schwarz | SMBV100A | 20238 | 36 | 2022-11-30 |
| Signal Generator | Rohde & Schwarz | SMB100A | 20215 | 36 | 2023-12-31 |
| Switching Device | Rohde & Schwarz | OSP120 I | 20248 | 24 | 2022-02-28 |
| Switching Device | Rohde & Schwarz | OSP120 II | 38807 | 36 | 2023-11-30 |
| EMC Measurement Software | Rohde & Schwarz | EMC32 TS8997 - V10.50.00 | 44381 | | |

Table 11

TU - Traceability Unscheduled O/P Mon – Output Monitored using calibrated equipment N/A - Not Applicable



3.5 Power Spectral Density

3.5.1 Specification Reference

FCC 47 CFR Part 15C, ISED Canada RSS-210 and ISED Canada RSS-GEN

3.5.2 Equipment Under Test and Modification State

GCY 300-42 (Conducted Sample), S/N: 124V00222 - Modification State 0

3.5.3 Date of Test

2021-06-25

3.5.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 11.10.2.

3.5.5 Environmental Conditions

Ambient Temperature22.0 °CRelative Humidity35.0 %

3.5.6 Test Results

| Frequency (MHz) | PSD (dBm) | Limit (dBm) |
|--------------------|-----------|-------------|
| 2402 | -10.59 | 8.0 |
| 2440 | -10.87 | 8.0 |
| 2480 | -11.08 | 8.0 |



FCC 47 CFR Part 15, Limit Clause 15.247 (e)

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

3.5.7 Test Location and Test Equipment Used

Conducted test was carried out in Non-shielded room with Test system TS8997.

| Instrument | Manufacturer | Туре No | TE No | Calibration Period (months) | Calibration Due |
|-----------------------------|-----------------|-----------------------------|-------|-----------------------------------|-----------------|
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 20219 | 12 | 2022-01-31 |
| Vector Signal Generator | Rohde & Schwarz | SMBV100A | 20238 | 36 | 2022-11-30 |
| Signal Generator | Rohde & Schwarz | SMB100A | 20215 | 36 | 2023-12-31 |
| Switching Device | Rohde & Schwarz | OSP120 I | 20248 | 24 | 2022-02-28 |
| Switching Device | Rohde & Schwarz | OSP120 II | 38807 | 36 | 2023-11-30 |
| EMC Measurement Software | Rohde & Schwarz | EMC32 TS8997 - V10.50.00 | 44381 | | |

Table 12

TU - Traceability Unscheduled

O/P Mon – Output Monitored using calibrated equipment N/A - Not Applicable



3.6 Maximum Conducted Output Power

3.6.1 Specification Reference

FCC 47 CFR Part 15C, ISED Canada RSS-210 and ISED Canada RSS-GEN

3.6.2 Equipment Under Test and Modification State

GCY 300-42 (Conducted Sample), S/N: 124V00222 - Modification State 0

3.6.3 Date of Test

2021-06-25

3.6.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 11.9.1.1.

3.6.5 Environmental Conditions

| Ambient Temperature | 22.0 °C |
|---------------------|---------|
| Relative Humidity | 35.0 % |



3.6.6 Test Results

| Frequency (MHz) | Peak Power (dBm) | Limit Max (dBm) |
|--------------------|---------------------|-----------------|
| 2402 | -0.80 | 30 |
| 2440 | -0.70 | 30 |
| 2480 | -0.90 | 30 |

FCC 47 CFR Part 15, Limit Clause 15.247 (b)(3)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

3.6.7 Test Location and Test Equipment Used

Conducted test was carried out in Non-shielded room with Test system TS8997.

| Instrument | Manufacturer | Туре No | TE No | Calibration Period (months) | Calibration Due |
|-----------------------------|-----------------|-----------------------------|-------|-----------------------------------|-----------------|
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 20219 | 12 | 2022-01-31 |
| Vector Signal Generator | Rohde & Schwarz | SMBV100A | 20238 | 36 | 2022-11-30 |
| Signal Generator | Rohde & Schwarz | SMB100A | 20215 | 36 | 2023-12-31 |
| Switching Device | Rohde & Schwarz | OSP120 I | 20248 | 24 | 2022-02-28 |
| Switching Device | Rohde & Schwarz | OSP120 II | 38807 | 36 | 2023-11-30 |
| EMC Measurement Software | Rohde & Schwarz | EMC32 TS8997 - V10.50.00 | 44381 | | |

Table 13

TU - Traceability Unscheduled O/P Mon – Output Monitored using calibrated equipment N/A - Not Applicable



3.7 Transmitter frequency stability

3.7.1 Specification Reference

RSS-Gen

3.7.2 Equipment Under Test and Modification State

GCY 300-42 (Conducted Sample), S/N: 124V00222 - Modification State 0

3.7.3 Date of Test

2021-06-25

3.7.4 Test Method

RSS-Gen, Issue 5, March 2019, chapter 6.11

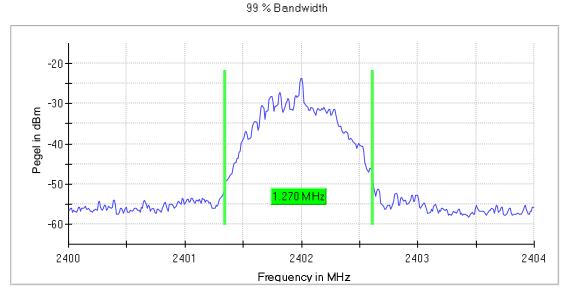
3.7.5 Environmental Conditions

| Ambient Temperature | 22.0 °C |
|---------------------|---------|
| Relative Humidity | 35.0 % |

3.7.6 Test Results

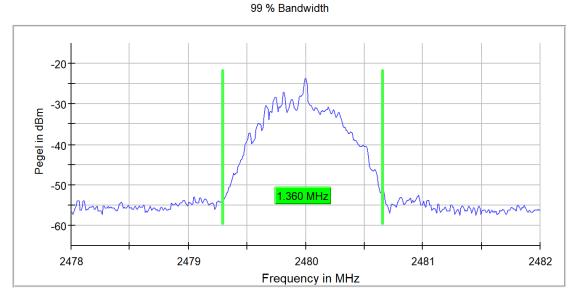
Note: - Measured Frequency Error does not affect any band edge requirements. - Measurement was performed with modulated transmitter signal

Sample screenshots:



Transmission on 2402 MHz; -20°C, 5 V DC





Transmission on 2480 MHz; + 50°C, 5 V DC

3.7.7 Test Location and Test Equipment Used

Conducted test was carried out in Non-shielded room with Test system TS8997.

| Instrument | Manufacturer | Туре No | TE No | Calibration Period (months) | Calibration Due |
|-----------------------------|-----------------|-----------------------------|-------|-----------------------------------|-----------------|
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 20219 | 12 | 2022-01-31 |
| Vector Signal Generator | Rohde & Schwarz | SMBV100A | 20238 | 36 | 2022-11-30 |
| Signal Generator | Rohde & Schwarz | SMB100A | 20215 | 36 | 2023-12-31 |
| Switching Device | Rohde & Schwarz | OSP120 I | 20248 | 24 | 2022-02-28 |
| Switching Device | Rohde & Schwarz | OSP120 II | 38807 | 36 | 2023-11-30 |
| EMC Measurement Software | Rohde & Schwarz | EMC32 TS8997 - V10.50.00 | 44381 | | |



TU - Traceability Unscheduled O/P Mon – Output Monitored using calibrated equipment N/A - Not Applicable



4 Measurement Uncertainty

The measurement uncertainty in the laboratory is less than or equal to the maximum measurement uncertainty according to EN 55016-4-2: 2011 + A1 + A2 + AC and CISPR16-4-2: 2011 + A1 + A2 + Cor1 (UCISPR). This normative regulation means that the measured value is also the value to be assessed in relation to the limit value.

For a 95% confidence level, the measurement uncertainties for defined systems are:

| Radio Testing | | | | | |
|---|------|-------------------------|------|--|--|
| Test Name | kp | Expanded Uncertainty | Note | | |
| Occupied Bandwidth | 2.0 | ±1.14 % | 2 | | |
| RF-Frequency error | 1.96 | ±1 · 10-7 | 7 | | |
| RF-Power, conducted carrier | 2 | ±0.079 dB | 2 | | |
| RF-Power uncertainty for given BER | 1.96 | +0.94 dB / -1.05 | 7 | | |
| RF power, conducted, spurious emissions | 1.96 | +1.4 dB / -1.6 dB | 7 | | |
| RF power, radiated | | | | | |
| 25 MHz – 4 GHz | 1.96 | +3.6 dB / -5.2 dB | 8 | | |
| 1 GHz – 18 GHz | 1.96 | +3.8 dB / -5.6 dB | 8 | | |
| 18 GHz – 26.5 GHz | 1.96 | +3.4 dB / -4.5 dB | 8 | | |
| 40 GHz – 170 GHz | 1.96 | +4.2 dB / -7.1 dB | 8 | | |
| Spectral Power Density, conducted | 2.0 | ±0.53 dB | 2 | | |
| Maximum frequency deviation | | | | | |
| 300 Hz – 6 kHz | 2 | ±2,89 % | 2 | | |
| 6 kHz – 25 kHz | 2 | ±0.2 dB | 2 | | |
| Maximum frequency deviation for FM | 2 | ±2,89 % | 2 | | |
| Adjacent channel power 25 MHz – 1 GHz | 2 | ±2.31 % | 2 | | |
| Temperature | 2 | ±0.39 K | 4 | | |
| (Relative) Humidity | 2 | ±2.28 % | 2 | | |
| DC- and low frequency AC voltage | | | | | |
| DC voltage | 2 | ±0.01 % | 2 | | |
| AC voltage up to 1 kHz | 2 | ±1.2 % | 2 | | |
| Time | 2 | ±0.6 % | 2 | | |

Table 15



| Radio Interference Emission Testing | | | |
|---|----|-------------------------|------|
| Test Name | kp | Expanded Uncertainty | Note |
| Conducted Voltage Emission | | | |
| 9 kHz to 150 kHz (50Ω/50μH AMN) | 2 | ± 3.8 dB | 1 |
| 150 kHz to 30 MHz (50Ω/50μH AMN) | 2 | ± 3.4 dB | 1 |
| 100 kHz to 200 MHz (50Ω/5μH AMN) | 2 | ± 3.6 dB | 1 |
| Discontinuous Conducted Emission | | | |
| 9 kHz to 150 kHz (50Ω/50μH AMN) | 2 | ± 3.8 dB | 1 |
| 150 kHz to 30 MHz (50Ω/50µH AMN) | 2 | ± 3.4 dB | 1 |
| Conducted Current Emission | | | |
| 9 kHz to 200 MHz | 2 | ± 3.5 dB | 1 |
| Magnetic Fieldstrength | | | |
| 9 kHz to 30 MHz (with loop antenna) | 2 | ± 3.9 dB | 1 |
| 9 kHz to 30 MHz (large-loop antenna 2 m) | 2 | ± 3.5 dB | 1 |
| Radiated Emission | | | |
| Test distance 1 m (ALSE) | - | | |
| 9 kHz to 150 kHz | 2 | ± 4.6 dB | 1 |
| 150 kHz to 30 MHz | 2 | ± 4.1 dB | 1 |
| 30 MHz to 200 MHz | 2 | ± 5.2 dB | 1 |
| 200 MHz to 2 GHz | 2 | ± 4.4 dB | 1 |
| 2 GHz to 3 GHz | 2 | ± 4.6 dB | 1 |
| Test distance 3 m | | | |
| 30 MHz to 300 MHz | 2 | ± 4.9 dB | 1 |
| 300 MHz to 1 GHz | 2 | ± 5.0 dB | 1 |
| 1 GHz to 6 GHz | 2 | ± 4.6 dB | 1 |
| Test distance 10 m | | | |
| 30 MHz to 300 MHz | 2 | ± 4.9 dB | 1 |
| 300 MHz to 1 GHz | 2 | ± 4.9 dB | 1 |
| Radio Interference Power | 1 | | |
| 30 MHz to 300 MHz | 2 | ± 3.5 dB | 1 |
| Harmonic Current Emissions | 1 | | 4 |
| Voltage Changes, Voltage Fluctuations and Flicker | | | 4 |

Table 16



| Immunity Testing | | | | | |
|--|------|-------------------------|------|--|--|
| Test Name | kp | Expanded Uncertainty | Note | | |
| Electrostatic Discharges | | | 4 | | |
| Radiated RF-Field | | | | | |
| Pre-calibrated field level | 2 | +32.2 / -24.3 % | 5 | | |
| Dynamic feedback field level | 2.05 | +21.2 / -17.5 % | 3 | | |
| Electrical Fast Transients (EFT) / Bursts | | | 4 | | |
| Surges | | | 4 | | |
| Conducted Disturbances, induced by RF-Fields | | | | | |
| via CDN | 2 | +15.1 / -13.1 % | 6 | | |
| via EM clamp | 2 | +42.6 / -29.9 % | 6 | | |
| via current clamp | 2 | +43.9 / -30.5 % | 6 | | |
| Power Frequency Magnetic Field | 2 | +20.7 / -17.1 % | 2 | | |
| Pulse Magnetic Field | | | 4 | | |
| Voltage Dips, Short Interruptions and Voltage Variations | | | 4 | | |
| Oscillatory Waves | | а | 4 | | |
| Conducted Low Frequency Disturbances | | | | | |
| Voltage setting | 2 | ± 0.9 % | 2 | | |
| Frequency setting | 2 | ± 0.1 % | 2 | | |
| Electrical Transient Transmission in Road Vehicles | | | 4 | | |

Table 17

Note 1:

The expanded uncertainty reported according to CISPR 16-4-2:2003-11 is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45% Note 2:

The expanded uncertainty reported according to UKAS Lab 34 (Edition 1, 2002-08) is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45%

Note 3:

The expanded uncertainty reported according to UKAS Lab 34 (Edition 1, 2002-08) is based on a standard uncertainty multiplied by a coverage factor of kp = 2.05, providing a level of confidence of p = 95.45%

Note 4:

It has been demonstrated that the used test equipment meets the specified requirements in the standard with at least a 95% confidence.

Note 5:

The expanded uncertainty reported according to IEC 61000-4-3 is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45%Note 6:

The expanded uncertainty reported according to IEC 61000-4-6 is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45%Note 7:

The expanded uncertainty reported according ETSI TR 100 028 V1.4.1 (all parts) to is based on a standard uncertainty multiplied by a coverage factor of kp = 1.96, providing a level of confidence of p = 95.45%

. Note 8:

The expanded uncertainty reported according to ETSI TR 102 273 V1.2.1 (all parts) is based on a standard uncertainty multiplied by a coverage factor of kp = 1.96, providing a level of confidence of p = 95.45%