

# Test Report

## Electromagnetic Compatibility

<b>Product</b>	IoT gateway for cellular connection and data communication from and to different type of devices	
<b>Name and address of the applicant</b>	Telenor Connexion AB Box 3081, SE-169 03 Solna, Sweden	
<b>Name and address of the manufacturer</b>	Telenor Connexion AB Box 3081, SE-169 03 Solna, Sweden	
<b>Model</b>	ECB02_A	
<b>Rating</b>	12 – 56VDC, max 6W	
<b>Trademark</b>	Telenor	
<b>Additional information</b>	/	
<b>Tested according to</b>	FCC CFR 47 Subpart 15B ISED Canada ICES-003, Issue 7	
<b>Project number</b>	467274	
<b>Tested in period</b>	2022-11-29 to 2023-03-09	
<b>Issue date</b>	2024-05-21	
<b>Name and address of the testing laboratory</b>	Nemko Scandinavia AS Philip Pedersens vei 11, 1366 Lysaker, Norway	 
An accredited technical test executed under the Norwegian accreditation scheme		
 <hr/> Prepared by [Tore LøvlienDRAFT]		 <hr/> Approved by [Roy Uggerud]

**Nemko Group**

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## REPORT REVISIONS

Report Edition	Date	Project	Description
REP006529	2023-06-21	467274	First issued
REP006529-1	2024-05-21	467274	Correction of model names
REP006529-1	2024-08-06	467274	Deleted 4V DC due voltage limitation (12-56Vdc)
REP006529-1	2024-08-16	467274	Removed Annex



### **THIS REPORT APPLIES ONLY TO THE ITEM(S) AND CONFIGURATION(S) TESTED.**

It is the manufacturer's responsibility to assure the additional production units of this product are manufactured with identical electrical and mechanical components. The manufacturer is responsible to the authorities for any modifications made to the product, which result in non-compliance to the relevant regulations.

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Opinions expressed within this report regarding general assessments and qualifications for PASS or FAIL to the standards limits and requirements, are not part of the current accreditation. Neither is opinions expressed regarding model variants covered by the testing performed in this report.

Deviations from, additions to, or exclusions from the test specifications are described in "Test Report Summary".

This report was originally distributed electronically with digital signatures. For more information contact Nemko.

## DESCRIPTION OF TESTED ITEM(S)

Product description..... :	<p>The EUT is a multipurpose communication boards with cellular, WiFi, BLE/BT and GNSS technology. The EUT also har connection for RS232, RS485, Digital I/O, USB and CANbus. The EUT also has several onboard LEDs and sensors.</p> <p>During all testing, except Surge and ESD, the device has been connected to a laptop which has been used to energize and supervise all interfaces via a proprietary LabVIEW program. For ESD and Surge, the EUT has been reprogrammed with a special FW, and been supervised via the onboard LEDs. The software allows for having either cellular or GNSS running, not both.</p>
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Model/type .....	ECB02_A
Serial number .....	Prototypes
Operating voltage..... :	12 – 56 VDC
Maximum power/current..... :	max 6W
Insulation class .....	III
Highest clock frequency .....	582MHz
Hardware version .....	ECB02_A V2
Software version .....	BIST_EBC02_A_0.3.6
FCC id	2BAKCECB02A
Contains FCC id	XMR202005BG95M5 (BG95) XPYMAYAW166 (WiFi) XMR201909EG95NAX (EG95NAX)

Mounting position..... :	<input checked="" type="checkbox"/> Tabletop equipment <input type="checkbox"/> Wall/ceiling mounted equipment <input type="checkbox"/> Floor standing equipment <input type="checkbox"/> Handheld equipment <input type="checkbox"/> Rack mounted equipment <input type="checkbox"/> Console equipment <input type="checkbox"/> Other:
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## RF CHARACTERISTICS OF THE TRANSMITTER

See the following Nemko reports for full details on RF transmitters:

2.4GHz WiFi + BT and BLE	REP004400	According to EN 300 328
5GHz WiFi	REP004401	According to EN 301 893
LTE	REP004402	According to EN 301 908
GNSS	REP004403	According to EN 303 413

### CRITICAL MODULES/PARTS

Description	Manufacturer	Type
MCU	NXP	MIMXRT1061CVL5B
Modem	Quectel	BG95 M5
Modem	Quectel	EG95 EX
Modem	Quectel	EG95 NAX
MM Connector	Würth	690367292676
WiFi Module	Ublox	MAYA-W166-00B-00
RJ45	Molex	955406888
Power Socket	Weidmüller	1874690000 alt. 1870500000
PCB	NCAB	/

### ACCESSORIES USED DURING TEST

Description	Manufacturer	Type
Laptop computer	Lenovo	Legion
CAN to USB adapter	Kvaser	U100
2x UART-USB adapters	-	-
POE Injector	Trendnet	TPE-115GI /EU
POE Switch	Zyxel	GS1900-10HP

### MODEL VARIANTS

The following model variants have been inspected and are confirmed to be identical or believed to be less disposed with regard to electromagnetic compatibility.

Model/type	Comment	Tested
ECB02A	Full test	<input checked="" type="checkbox"/>

### INPUT/OUTPUT PORTS

Port name and description	Cable		
	Longer than 3m	Attached during test	Shielded
DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ethernet	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RS232	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RS485	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
USB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CANBUS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Digital IO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sensor Feed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power via Minimodule Connector	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power via Power Terminal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

This equipment has been tested with certain cable types and cable configurations. Any changes to these parameters when installed may influence the EMC properties of this equipment.

### OPERATING MODES

OP no.	Description	Applied for testing	
		Emissions	Immunity
OP1	Active and communicating, wireless disabled	<input checked="" type="checkbox"/>	<input type="checkbox"/>
OP2	Active and communicating, wireless enabled	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### POWER SUPPLY CONDITIONS

The following nominal power supply conditions have been tested:

PC no.	Voltage	Frequency	Type	Ground terminal
PC1	24 V	<input type="checkbox"/> AC 50Hz / <input type="checkbox"/> AC 60Hz / <input checked="" type="checkbox"/> DC	<input type="checkbox"/> 3AC / <input type="checkbox"/> 3ACN / <input type="checkbox"/> PoE	<input type="checkbox"/> PE / <input checked="" type="checkbox"/> GND / <input type="checkbox"/> None
PC3	54 V	<input type="checkbox"/> AC 50Hz / <input type="checkbox"/> AC 60Hz / <input checked="" type="checkbox"/> DC	<input type="checkbox"/> 3AC / <input type="checkbox"/> 3ACN / <input checked="" type="checkbox"/> PoE	<input type="checkbox"/> PE / <input checked="" type="checkbox"/> GND / <input type="checkbox"/> None

All DC sources where supplied with 120V/60Hz AC.

### PHOTOS AND DRAWINGS


Copy of marking label..... :	/
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Photo of the test item..... :	See Photos
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### OTHER INFORMATION

Modifications..... :	/
Additional information..... :	Power source was supplied with 120V 60Hz.

## TEST ENVIRONMENT

Test laboratory .....	<input checked="" type="checkbox"/> KJELLER (Instituttveien 6, N-2007 Kjeller, Norway) <input type="checkbox"/> LYSAKER (Philip Pedersens vei 11, N-1366 Lysaker, Norway)						
Laboratory accreditation .....	 <p><b>Norsk Akkreditering – TEST 033</b> P06 – Electromagnetic Compatibility</p>						
Environmental conditions .....	<p>The climatic conditions during the tests are within limits specified by the manufacturer for the operation of the product and the test equipment. The climatic conditions during tests are within the following limits:</p> <table border="0" data-bbox="553 632 1029 709"> <tr> <td><b>Ambient temperature:</b></td> <td>15 – 35 °C</td> </tr> <tr> <td><b>Relative humidity:</b></td> <td>25 – 75 %RH</td> </tr> <tr> <td><b>Atmospheric pressure:</b></td> <td>86 – 106 kPa</td> </tr> </table> <p>If explicitly required by the test standard, or the requirements are tighter than the above; the climatic conditions are recorded and documented separately in this test report.</p>	<b>Ambient temperature:</b>	15 – 35 °C	<b>Relative humidity:</b>	25 – 75 %RH	<b>Atmospheric pressure:</b>	86 – 106 kPa
<b>Ambient temperature:</b>	15 – 35 °C						
<b>Relative humidity:</b>	25 – 75 %RH						
<b>Atmospheric pressure:</b>	86 – 106 kPa						
Calibration .....	<p>All instruments used in the tests of this test report are calibrated and traceable to national or international standards. Between calibrations test set-ups are controlled and verified on a regular basis by intermediate checks to ensure, with 95% confidence that the instruments remain within their calibrated levels. The instrumentation accuracy is within limits agreed by the IECEE/CTL and defined by Nemko.</p>						
Measurement uncertainties.....	<p>Uncertainty in EMC emission measurements stated in this report are calculated from the standard measurement uncertainties multiplied by the coverage factor k=2. It was determined in accordance with CISPR 16-4-2. The true value is in the corresponding interval with a probability of 95%. Uncertainties for continuous immunity tests are calculated based on the same principles as for EMC emission uncertainties. For Harmonics and Flicker measurements the measurement uncertainty is calculated based on the same principles as for EMC emission uncertainties. Uncertainties for transient immunity are kept within the requirements of the relevant basic standard. <i>Further information about measurement uncertainties is provided on request.</i></p>						
Decision rules .....	<p>As specified by CISPR 16-4-2; if our measurement uncertainty <math>U_{LAB}</math> is less than or equal to <math>U_{CISPR}</math>, compliance is deemed to occur if no measured disturbance level exceeds the limit hence "PASS" is indicated, and non-compliance is deemed to occur if any measured disturbance level exceeds the limits hence "FAIL" is indicated. For continuous immunity tests, uncertainties are not considered when applying the calibrated test levels. Tests are performed at the test levels specified by the test standard. PASS and FAIL decisions are based on behaviour observations of the specimen. For transient immunity tests, uncertainties are not considered if the test equipment is kept within the requirements of the relevant basic standard. Tests are performed at the test levels specified by the test standard. PASS and FAIL decisions are based on behaviour observations of the specimen. For Harmonics and Flicker measurements the measurement uncertainty is considered, and measurements are marked if necessary. In doing so, the associated uncertainty of measurement has been considered. <i>Further information about decision rules is provided on request.</i></p>						

## TEST REPORT SUMMARY

### APPLIED STANDARDS

Standards	Titles
FCC CFR 47 Subpart 15B	Digital devices - Unintentional radiators, Class B Digital Device
ISED Canada ICES-003, Issue 7	Spectrum Management and Telecommunications Policy. Interference-Causing Equipment Standard. Information Technology Equipment (Including Digital Apparatus - Limits and Methods of Measurement (Issue 7, June 2020)

### TEST SUMMARY

Requirements – Tests	Reference standards	Verdict
Conducted Emissions	FCC CFR 47 Subpart 15B:0 ISED Canada ICES-003, Issue 7:0 FCC Part 12.107 per ANSI C63.4-2014	PASS
Radiated Emissions (Below 1GHz)	FCC CFR 47 Subpart 15B:0 ISED Canada ICES-003, Issue 7:0 FCC Part 12.109 per ANSI C63.4-2014	PASS
Radiated Emissions (Above 1GHz)	FCC CFR 47 Subpart 15B:0 ISED Canada ICES-003, Issue 7:0 FCC Part 12.109 per ANSI C63.4-2014	PASS

- PASS : Tested and complied with the requirements
- FAIL : Tested and failed the requirements
- N/A : Test not relevant to this specimen (evaluated by the test laboratory)
- : Test not performed (instructed by the applicant)
- \* : An asterisk (\*) placed after the verdict in the Result column indicates test items that are not within Nemko’s scope of accreditation
- # : A grid (#) placed after the verdict in the Result column indicates test items that are only partly covered by Nemko’s scope of accreditation. Further information is detailed in the test section

### ABOUT REFERENCE STANDARDS AND TEST LEVELS

Product standards with dated references to basic standards may have been performed according to the newest edition of the basic standard. This may impact the compliance criteria or technical performance of the test, still this is adequate if the test is expected to confirm compliance to the intention of the product standard. The table above lists the actual editions of the basic standards which have been used during testing.

The choice of immunity test levels could be higher than those specified by the reference standards when we consider the nature of the specimen and its intended use or based on customer requests.

### NOTES

None

# Test Results



## CONDUCTED EMISSIONS

### TEST DESCRIPTION

#### Method

The reference method for this test is listed in the table under clause TEST SUMMARY.

#### Set-up

The measurement was performed at the power supply terminal of the specimen. Nominal supply voltage was provided. The specimen was energized and in normal operating mode during the measurement.

- The specimen and its cables were elevated 10 cm above a ground plane.
  - The specimen and its cables were elevated 40 cm above a ground plane.
  - The specimen and its cables were placed 40 cm from a vertical ground plane, 80 cm over ground plane.
  - The specimen was mounted directly on, and bonded to a ground plane. Cables and auxiliary equipment were elevated by 1 cm
- 
- The specimen was connected to an Artificial Mains Network (AMN) by its power supply cable, which was adjusted to 100cm length by folding.
  - The specimen was connected to an Artificial Mains Network (AMN) by a 0.8 m shielded power supply cable directly connected to the AMN

#### Conditions

- Frequency range was 9kHz – 30MHz.
- Frequency range was 10kHz – 30MHz.
- Frequency range was 150kHz – 30MHz.

The measuring bandwidth is 200Hz in the frequency range 9 kHz – 150 kHz. Measurement was made with a 100 Hz step size and 100 ms dwell time.

The measuring bandwidth is 9 kHz in the frequency range 150 kHz – 30 MHz. Measurement was made with a 4.5 kHz step size and 20 ms dwell time.

Measurement uncertainty:  $\pm 3.7$  dB (9 kHz – 150 kHz);  $\pm 3.3$  dB (150 kHz – 30 MHz)

#### Instruments used during measurement

Instrument list:           AMN: R&S / ENV216 (LR-1665) (11/2023)  
                                  EMI Receiver: R&S / ESCI 3 (N-4259) (12/2023)  
                                  AC Power Source: Agilent Technologies / 6812B (LR-1515) (N/A)

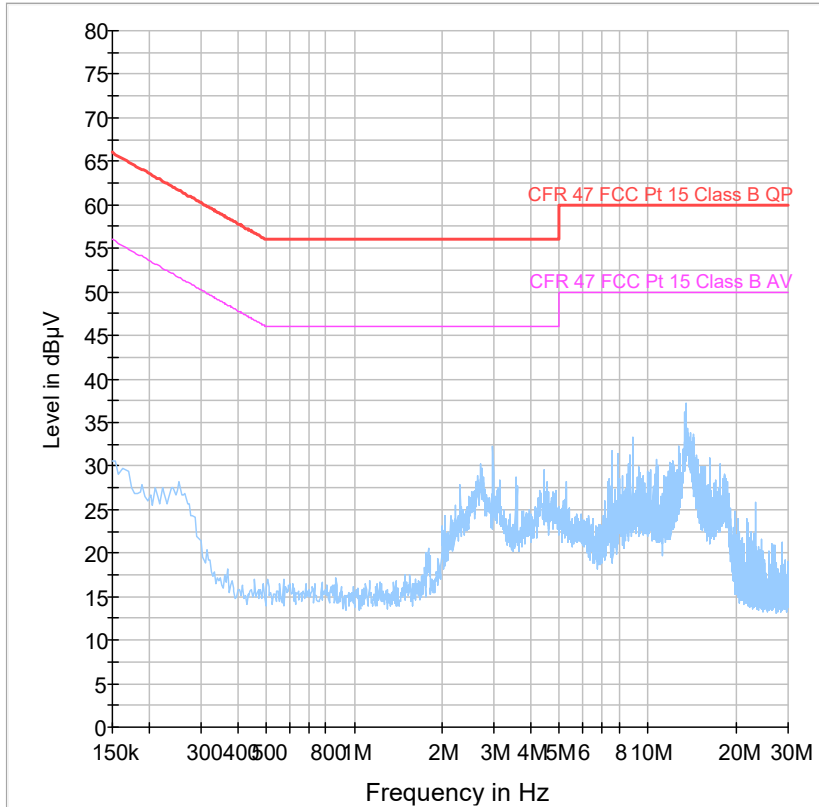
#### Conformity

Verdict: PASS

Test engineer: GNS

EMISSION SPECTRUM

Full Spectrum



- Preview Result 1-PK+
- CFR 47 FCC Pt 15 Class B C
- CFR 47 FCC Pt 15 Class B A
- ◆ Final\_Result QPK
- ◆ Final\_Result CAV

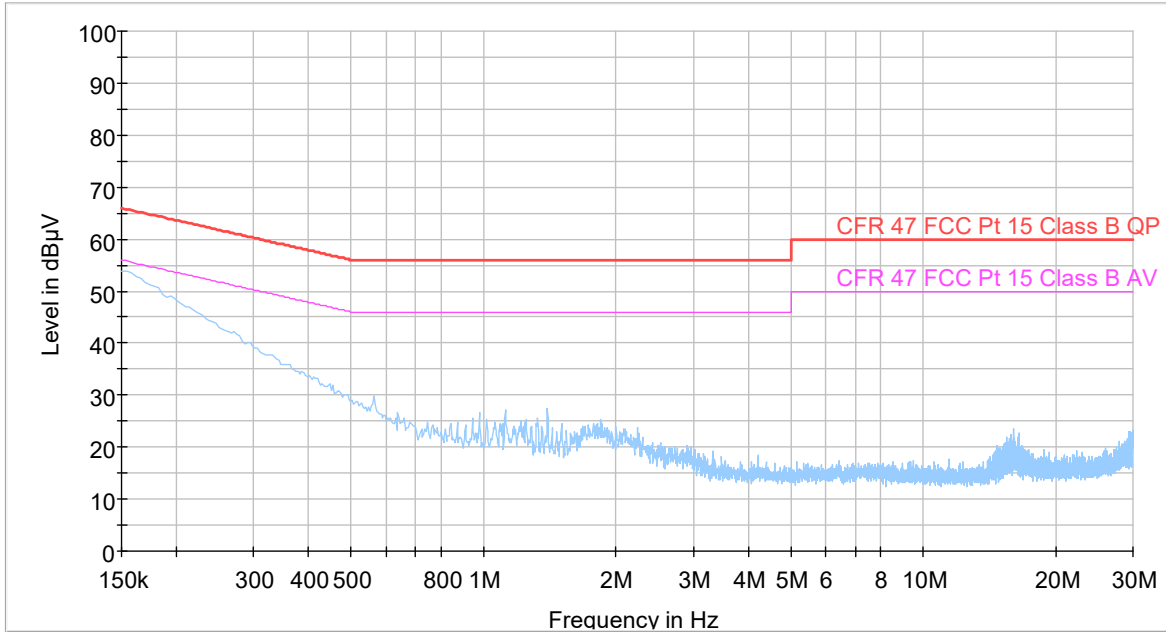
MEASUREMENT DATA

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
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ECB02A – PC3 – OP2

EMISSION SPECTRUM

Full Spectrum



- Preview Result 1-PK+
- CFR 47 FCC Pt 15 Class B AV
- ◆ Final\_Result CAV
- CFR 47 FCC Pt 15 Class B QP
- ◆ Final\_Result QPK

MEASUREMENT DATA

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
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## RADIATED EMISSIONS (BELOW 1GHZ)

### TEST DESCRIPTION

#### Method

The reference method for this test is listed in the table under clause TEST SUMMARY.

#### Set-up

The measurements were performed in a semi-anechoic chamber (SAC). Nominal supply voltage was provided. The specimen was energized and in normal operating mode during the measurement.

- The specimen and its cables were elevated 10 cm above the site ground plane and placed in the centre of the turntable.
- The specimen and its cables were placed on a table 80 cm above the site ground plane and placed in the centre of the turntable.
- Ferrite clamps type CMAD were applied to cables leaving the test volume.
- A CDNE was applied to the power supply cable.

Antenna type = Hybrid bilog antenna

Antenna elevation = 100-400 cm above the ground reference plane.

Specimen rotation = 0-360°.

- Band-stop filter(s) was used to suppress the wanted RF transmission band to protect the measurement equipment.

Frequency range:

- 30-300MHz
- 30-1000MHz
- Other:

Measurement distance:

- 3m
- 5m
- 10m

#### Conditions

The measuring bandwidth is 120 kHz in the frequency range 30 MHz – 1000 MHz. Frequency sweeps with RBW = 120 kHz and VBW = 1 MHz was applied with a sweep time of 20 ms (step size resolution < 60 kHz ).

Measurement uncertainty: ± 4.9 dB (3m distance in SAC10); ± 4.6 dB (3m distance in SAC3); ± 4.6 dB (10m distance in SAC10)

#### Instruments used during measurement

Instrument list:           Antenna, Hybrid: Schwarzbeck / VULB 9163 (LR-1616) (05/2023)  
                                  EMI Receiver: R&S / ESU40 (LR-1639) (01/2024)  
                                  Preamplifier: Sonoma / 310N (LR-1686) (08/2023)  
                                  AC Power Source: Agilent Technologies / 6812B (LR-1515) (N/A)

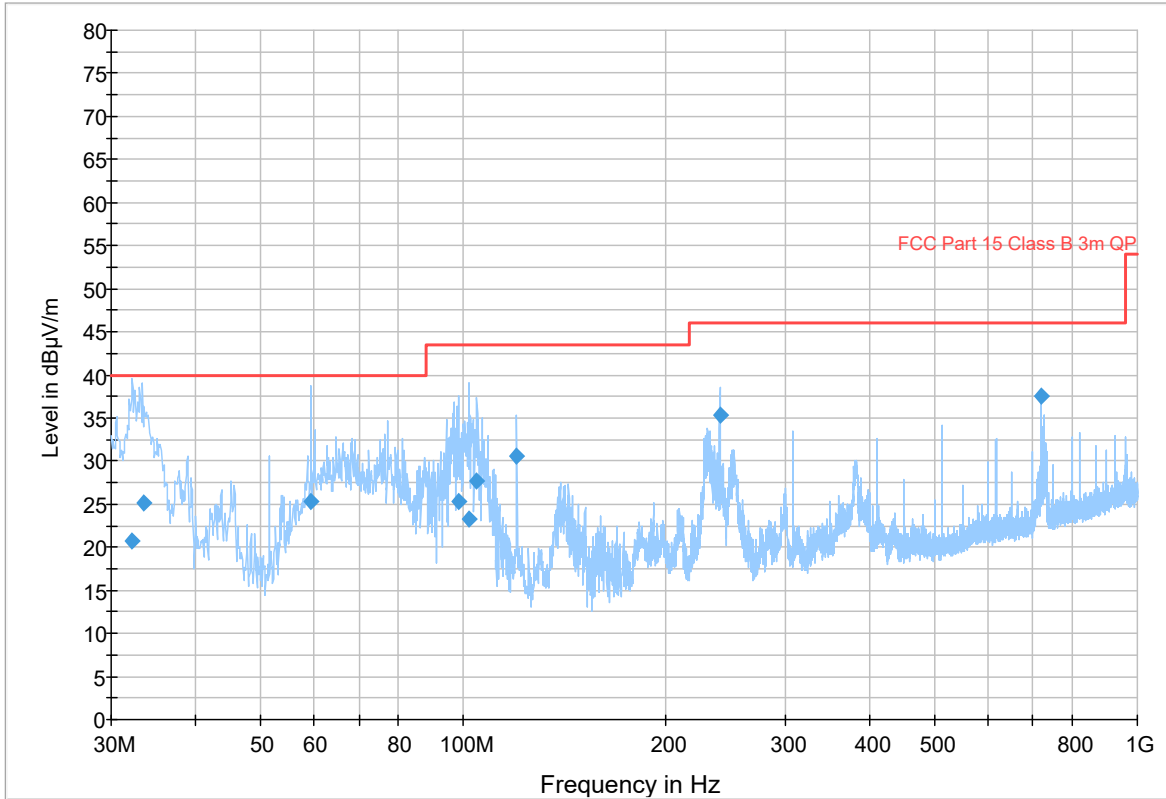
#### Conformity

Verdict: PASS

Test engineer: DGW

ECB02A – PC1 – OP1  
EMISSION SPECTRUM

Full Spectrum

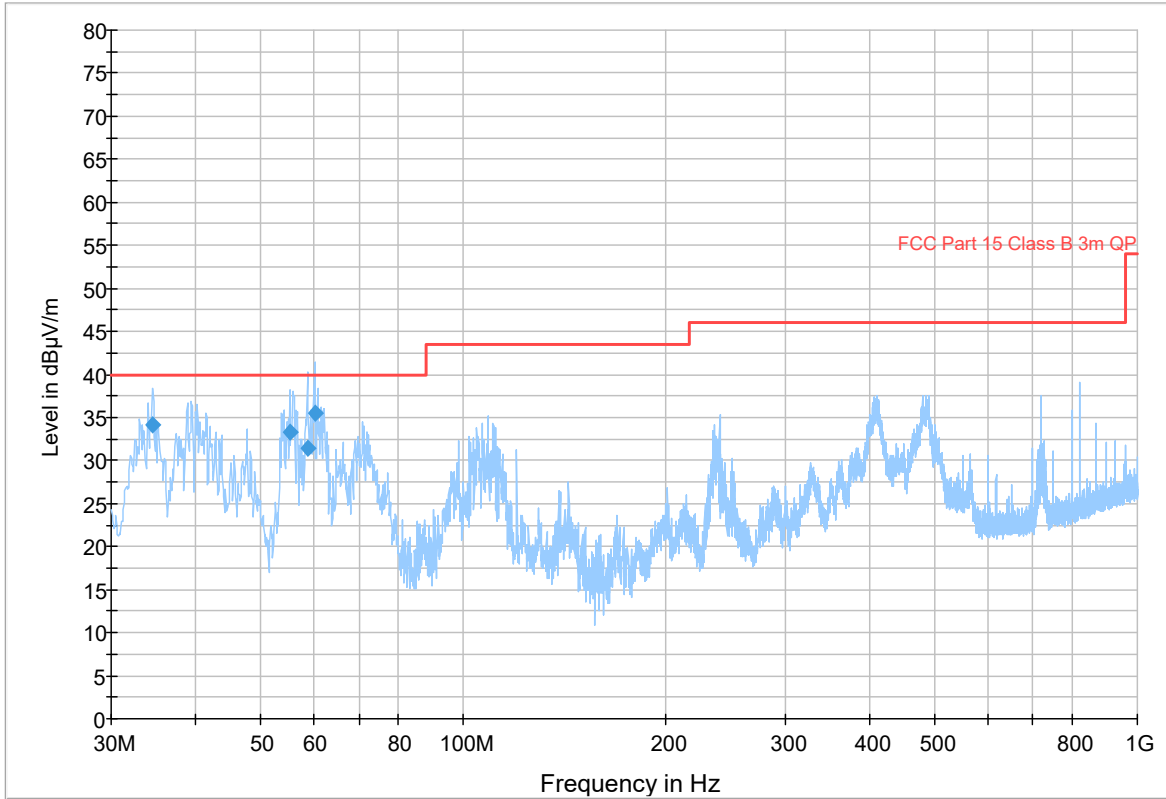


MEASUREMENTS DATA

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.225852	20.73	40.00	19.27	15000.0	120.000	150.0	V	236.0	-15.4
33.448820	25.07	40.00	14.93	15000.0	120.000	106.0	V	244.0	-15.1
59.250332	25.32	40.00	14.68	15000.0	120.000	127.0	V	268.0	-13.5
98.392650	25.29	43.50	18.21	15000.0	120.000	102.0	V	250.0	-14.4
101.873166	23.34	43.50	20.16	15000.0	120.000	104.0	V	241.0	-14.2
104.742092	27.60	43.50	15.90	15000.0	120.000	115.0	V	104.0	-14.5
120.012220	30.64	43.50	12.86	15000.0	120.000	365.0	H	222.0	-15.8
240.024134	35.39	46.00	10.61	15000.0	120.000	100.0	V	154.0	-12.3
720.021262	37.55	46.00	8.45	15000.0	120.000	104.0	H	31.0	-2.3

ECB02A – PC3 – OP1  
EMISSION SPECTRUM

Full Spectrum



MEASUREMENTS DATA

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.577414	34.10	40.00	5.90	15000.0	120.000	104.0	V	128.0	-14.8
55.280300	33.31	40.00	6.69	15000.0	120.000	112.0	V	322.0	-13.5
58.791290	31.44	40.00	8.56	15000.0	120.000	109.0	V	12.0	-13.5
60.225518	35.42	40.00	4.58	15000.0	120.000	104.0	V	24.0	-13.6

## RADIATED EMISSIONS (ABOVE 1GHZ)

### TEST DESCRIPTION

#### Method

The reference method for this test is listed in the table under clause TEST SUMMARY.

#### Set-up

Nominal supply voltage was provided. The specimen was energized and in normal operating mode during the measurement.

- The specimen and its cables were elevated 10 cm above the floor and placed in the centre of the turntable.
- The specimen and its cables were placed on a table 80 cm above the floor and placed in the centre of the turntable.

#### Facility:

- 3m semi-anechoic chamber (SAC3) with extra floor absorbers\* (calibrated volume: D=2.0m / H=2.0m).
- 10m semi-anechoic chamber (SAC10) with extra floor absorbers\* (calibrated volume: D=1.5m / H=2.0m).
- 3m fully anechoic room (FAR3) (calibrated volume: D=1.2m / H=2.0m).

\* The reference ground plane was covered with ferrite absorbers in the reflecting area between the specimen and the measuring antenna.

Measurement distance =  3m.

Antenna elevation = fixed at centre of specimen height.

Specimen rotation = 0-360°.

Measurements were performed with a double-ridged guide horn antenna.

- Band-stop filter(s) was used to suppress the wanted RF transmission band to protect the measurement equipment.

#### Frequency range:

- 1-2GHz
- 1-5GHz
- 1-6GHz
- 1-12GHz

#### Highest internal frequency of specimen:

- Below 108MHz
- Between 108MHz and 500MHz
- Between 500MHz and 1000MHz
- Above 1000MHz

The measuring bandwidth is 1 MHz in the above frequency range. Frequency sweeps with RBW = 1 MHz and VBW = 1 MHz was applied with a sweep time of 100 ms (proper segmentation of the frequency range was applied to obtain step size resolution < 500 kHz).

Measurement uncertainty: ± 5.1 dB

#### Instruments used during measurement

Instrument list: **Antenna, Horn: ETS / 3117 (LR-1717) (12/2027)**  
**EMI Receiver: R&S / ESU40 (LR-1639) (01/2024)**  
**Preamplifier: ETS / 3117-PA (LR-1757) (08/2023)**  
**AC Power Source: Agilent Technologies / 6812B (LR-1515) (N/A)**

#### Conformity

Verdict:

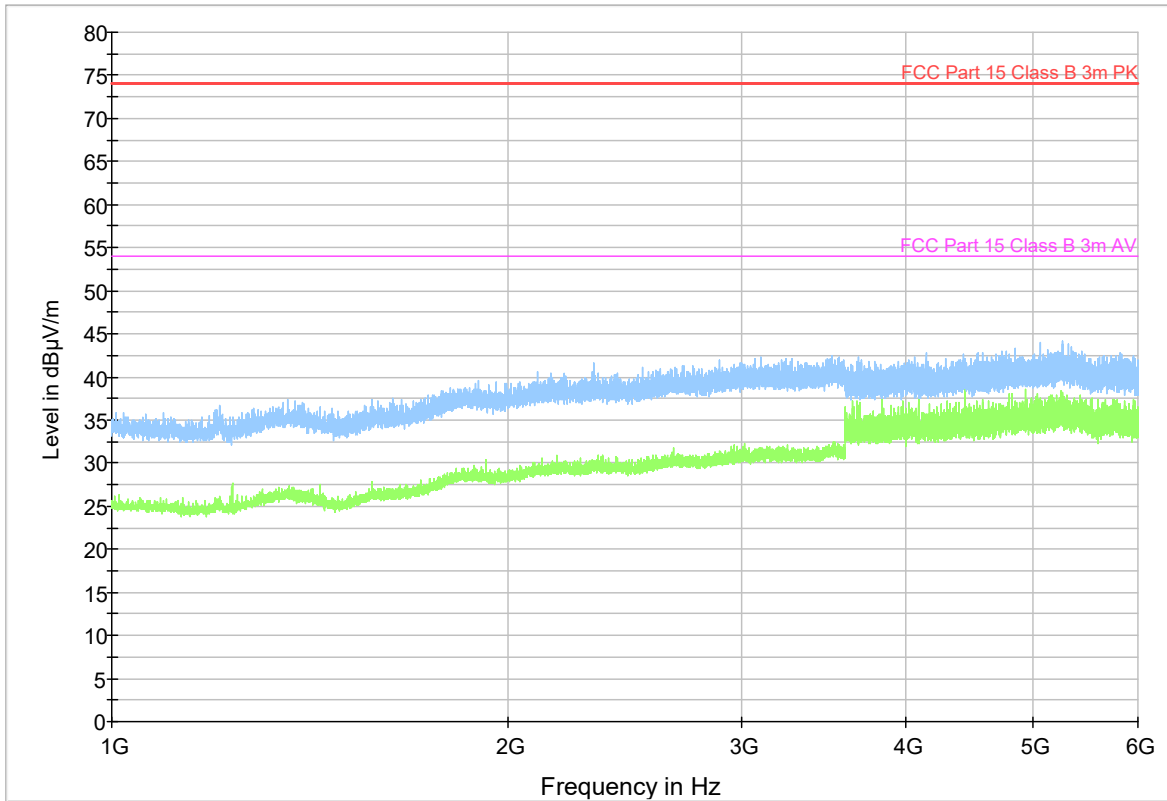
PASS

Test engineer:

DGW

ECB02A – PC1 – OP1  
EMISSION SPECTRUM (HORIZONTAL POLARIZATION)

Full Spectrum



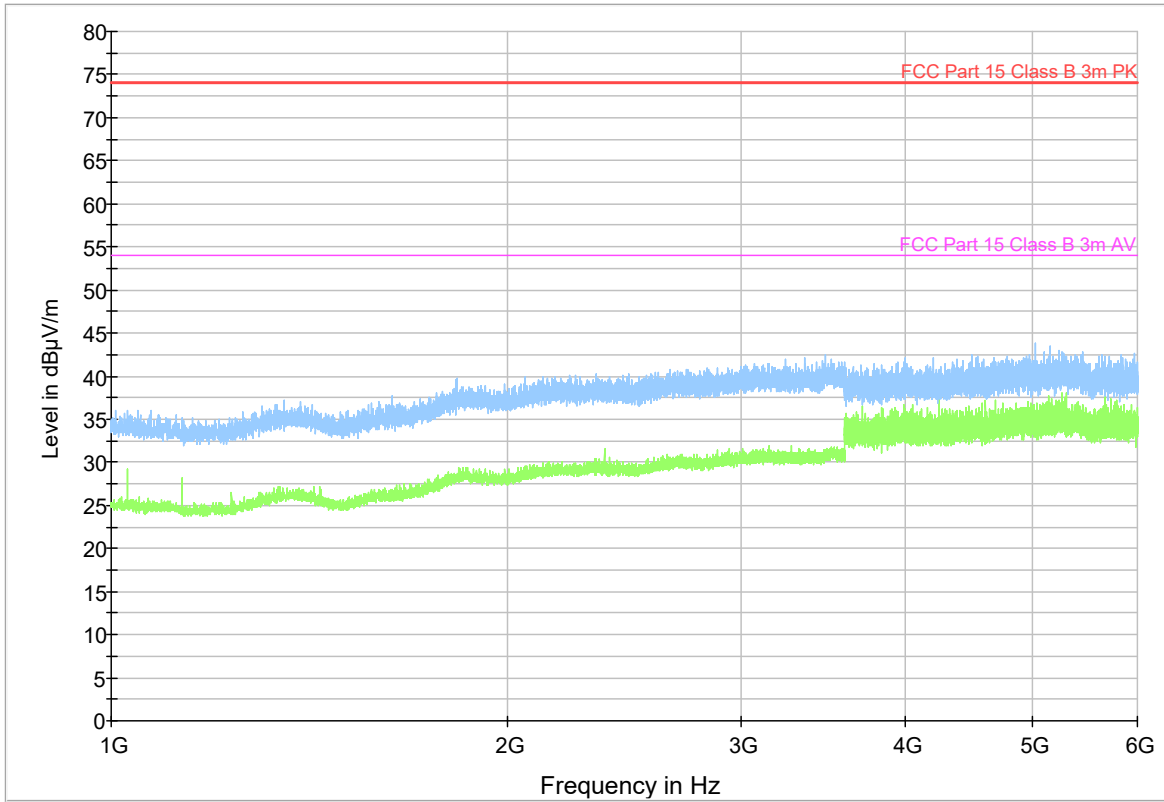
MEASUREMENTS DATA

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EMISSION SPECTRUM (VERTICAL POLARIZATION)

Full Spectrum

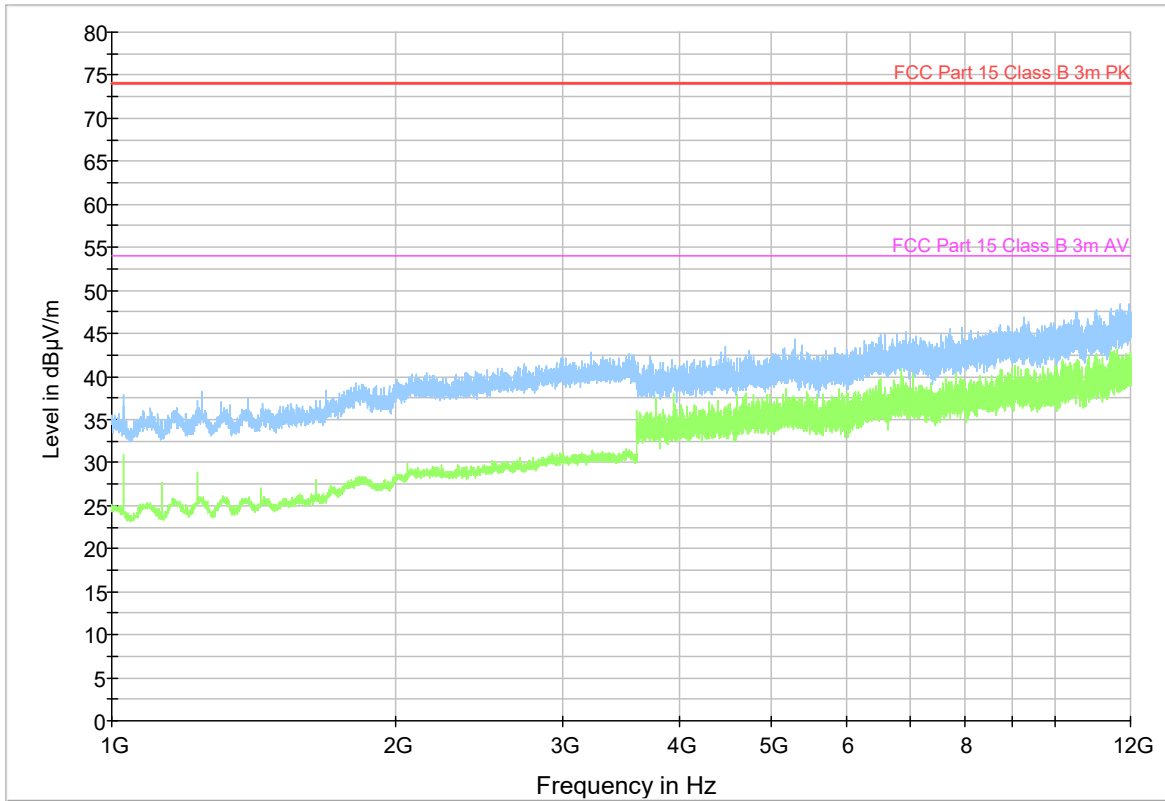


MEASUREMENTS DATA

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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ECB02A – PC3 – OP1  
EMISSION SPECTRUM (HORIZONTAL POLARIZATION)

Full Spectrum

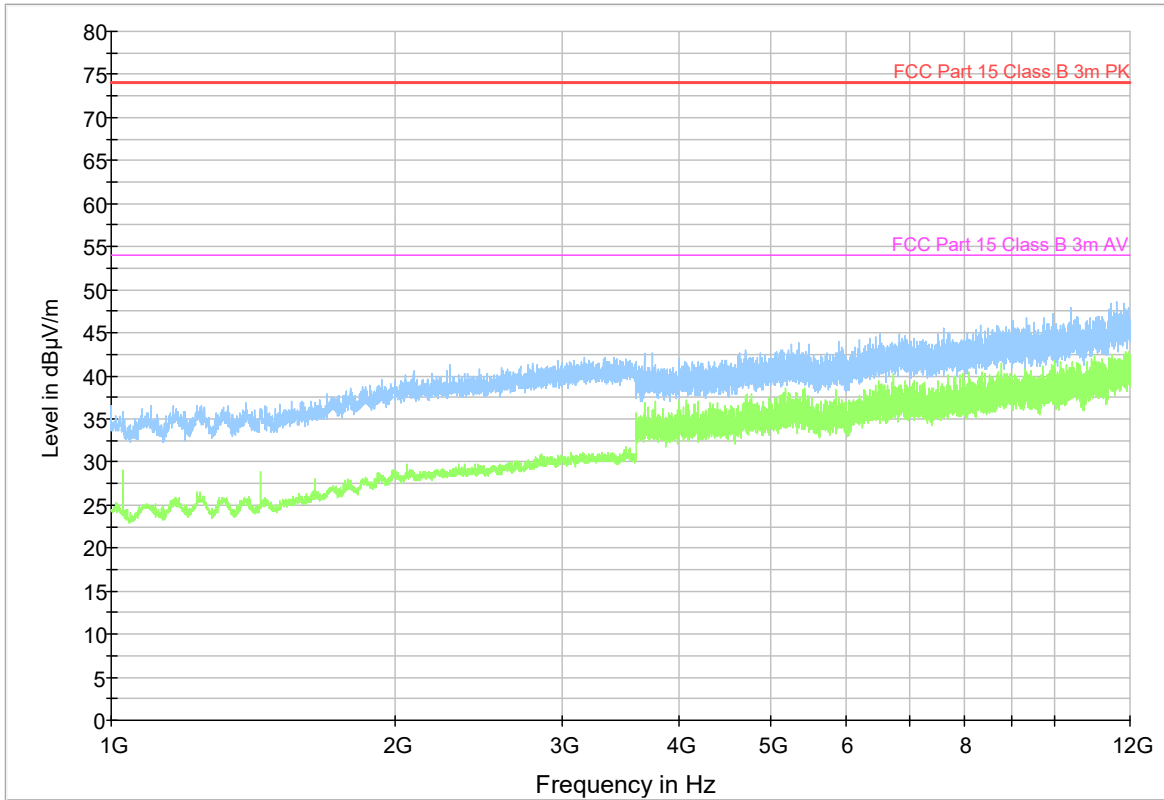


MEASUREMENTS DATA

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EMISSION SPECTRUM (VERTICAL POLARIZATION)

Full Spectrum



MEASUREMENTS DATA

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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