



SGS Germany GmbH

Test Report No.: N1Y10005

replaces Test Report No.: N1Y10004

FCC ID: 2AVB6-E707550

Order No.: N1Y1

Pages: 21

Client:	Christ Electronic Systems GmbH
Equipment Under Test:	Touch-it CE OEM glass 7
Manufacturer / Importer:	Christ Electronic Systems GmbH
Task:	Compliance with the requirements mentioned below:
Test Specification(s): [covered by accreditation]	FCC 47 CFR Part 15 §15.107 §15.109
Result:	The EUT complies with the requirements of the test specifications.

The results relate only to the items tested as described in this test report.

approved by:

Date

Signature

Bauer
Lab Manager EMC

Jun 04, 2020

This document was signed electronically.

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1 Result Summary

This report replaces report N1Y10004, because the FCC ID on the label was incorrect.

This report presents the test procedures used and the results obtained during the performance of an FCC 47 CFR Part 15 test program. The test program was conducted to assess the ability of the tested sample to successfully satisfy the requirements specified in the references listed in Section 2 of this report.

Tables of Results:

Phenomena	Reference	Frequency range	Criteria	Verdict ¹
Conducted Emission AC power port ²	FCC 47 CFR Part 15 §15.107	150 kHz – 30 MHz	Class A	NA ³
Radiated Emission Electric Field	FCC 47 CFR Part 15 §15.109	30 MHz - 1 GHz	Class A	P
Radiated Emission Electric Field	FCC 47 CFR Part 15 §15.109	1 GHz – 6 GHz ⁴	Class A	P

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- ¹ **P** (Pass): test object meets the requirement; **F** (Fail): test object does not meet the requirement; **NA**: test case does not apply to the test object; **NR**: test case is not requested by the client; **NP**: test case was not performed
- ² According ANSI C.63.4 chapter 7.1: If the EUT normally receives power from another device that in turn connects to the public-utility ac power lines, measurements shall be made on that device with the EUT in operation to ensure that the device continues to comply with the appropriate limits while providing the EUT with power. If the EUT is operated only from internal or dedicated batteries, with no provisions for connection to the public utility ac power lines (600 VAC or less) to operate the EUT (such as an adapter), then ac power-line conducted measurements are not required.
- ³ EUT is powered over PoE (48 V)
- ⁴ See chapt. 4.2.4; Clock frequencies of the EUT resulting in determination of frequency range

2 References

2.1 Specification(s)

- [1] FCC 47 CFR Part 15:
Code of Federal Regulations. Title 47: Telecommunication Part 15: Radio Frequency De-
vices
- [2] ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-
Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of
9 kHz to 40 GHz
- [3] FCC Public Notice DA 09-2478; Nov 25, 2009; Office of Engineering and Technology
Clarifies Use of Recently Published ASC C63®
Measurement Standards for Compliance Testing of Intentional and Unintentional Radia-
tors under Part 15

2.2 Glossary

AC	Alternating Current
AMN	Artificial Mains Network
AV	Average Detector
DC	Direct Current
EMC	Electromagnetic Compatibility
EUT	Equipment Under Test
HW	Hardware
LISN	Line Impedance Stabilization Network
QP	Quasi Peak Detector

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2.3 Information concerning FCC Equipment Authorization and Labelling

CERTIFICATION (47 CFR Section 2.907)

Certification is the most rigorous approval process for RF Devices with the greatest potential to cause harmful interference to radio services. It is an equipment authorization issued by an FCC-recognized Telecommunication Certification Body (TCB) based on an evaluation of the supporting documentation and test data submitted by the responsible party (e.g., the manufacturer or importer) to the TCB. Testing is performed by an FCC-recognized accredited testing laboratory. Information including the technical parameters and descriptive information for all certified equipment is posted on a Commission-maintained public database. In addition, equipment subject to approval using the Supplier's Declaration of Conformity (SDoC) procedure can optionally use the Certification procedure.

SUPPLIER'S DECLARATION OF CONFORMITY (47 CFR Section 2.906) → SDoC

Supplier's Declaration of Conformity (SDoC) is a procedure that requires the party responsible for compliance ensure that the equipment complies with the appropriate technical standards. The responsible party, who must be located in the United States, is not required to file an equipment authorization application with the Commission or a TCB. Equipment authorized under the SDoC procedure is not listed in a Commission database. However, the responsible party or any other party marketing the equipment must provide a test report and other information demonstrating compliance with the rules upon request by the Commission. The responsible party has the option to use the certification procedure in place of the SDoC procedure.

The key FCC rule sections for SDoC are:

- Section 2.906 Supplier's Declaration of Conformity
- Section 2.909 Responsible party
- Section 2.931 Responsibilities
- Section 2.938 Retention of records
- Section 2.1072 Limitations on Supplier's Declaration of Conformity
- Section 2.1074 Identification
- Section 2.1077 Compliance Information

See Guidance on the use of SDoC in [896810 D01 SDoC v01r01](#) and [896810 D02 SDoC FAQ v01r02](#).

As the EMC-Lab of SGS Germany GmbH is an FCC-recognized accredited testing laboratory, this test report can be used as basis for both procedures.

Based on §15.3 the following description for locations and its emission classes is defined:

(h) **Class A digital device.** A digital device that is marketed for use in a commercial, industrial or business environment, exclusive of a device which is marketed for use by the general public or is intended to be used in the home.

(i) **Class B digital device.** A digital device that is marketed for use in a residential environment notwithstanding use in commercial, business and industrial environments. Examples of such devices include, but are not limited to, personal computers, calculators, and similar electronic devices that are marketed for use by the general public.

Based on §15.105 the relevant **information to the limit class** has to be included in the manual.

Guidelines for **labeling and user information for RF** devices are contained in the following documents:

- 784748 D01 Labeling Part 15 18 Guidelines v09 provides general guidance for Part 15 and Part 18 labeling and user information.
- 748748 D02 e labeling v02 provides guidelines for displaying label information electronically (e-label).

3 General Information

3.1 Identification of Client

Christ Electronic Systems GmbHB.Eng.Entwicklung
Alpenstraße 34
87700 Memmingen

3.2 Test Laboratory

SGS Germany GmbH
Hofmannstraße 50
81379 München

3.3 Time Schedule

Delivery of EUT: May 23, 2019
Start of test: May 28, 2019
End of test: May 28, 2019

3.4 Participants

Name	Function
Markus Fenzl	Accredited testing, Editor

3.5 Environmental conditions

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

Temperature: 20 - 26 °C
Humidity: 30 - 60 %

4 Equipment Under Test

Test item description : Touch-it CE OEM glass 7
 Trade Mark : None
 Manufacturer / Importer : Christ Electronic Systems GmbH
 Model/Type : Touch-it CE OEM glass 7
 Number of tested samples ... : 1
 Serial Number(s) : SN 0098912-000-002
 Ratings : 48 V via PoE; 9 W

- *Touchscreen display*

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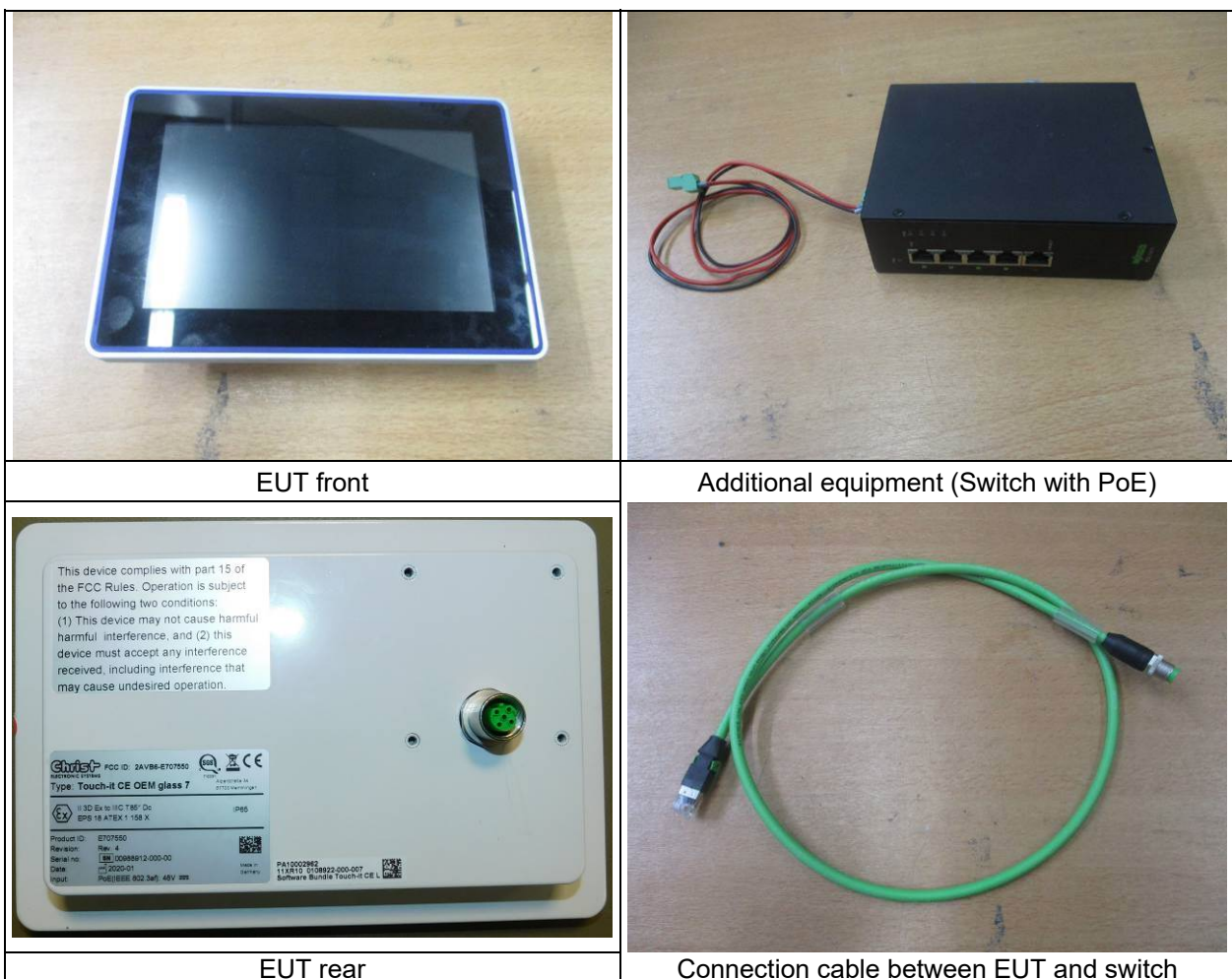


Figure 4-1: Touch-it CE OEM glass 7

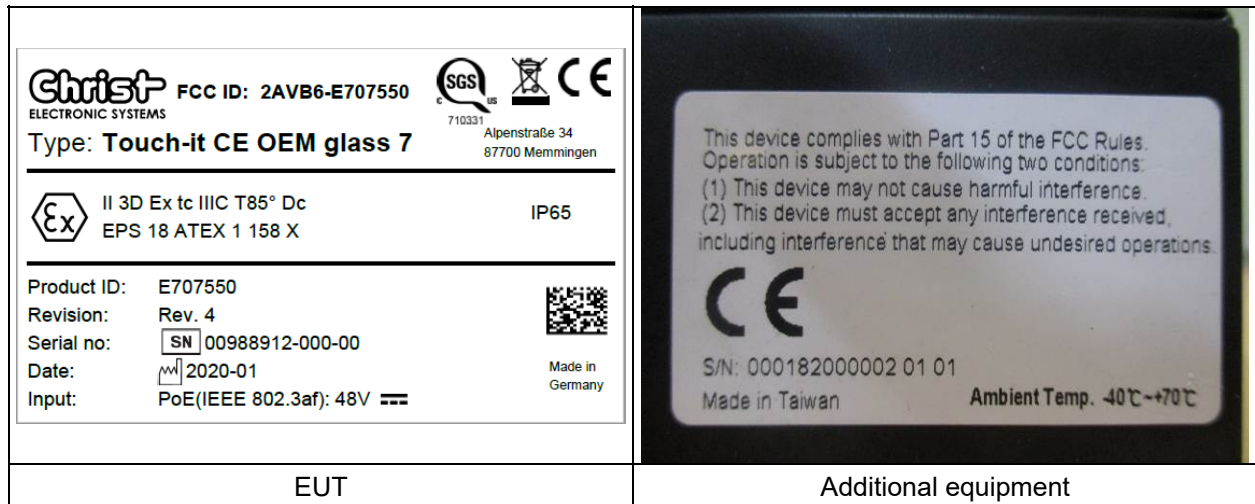


Figure 4-2: Copy of type plate

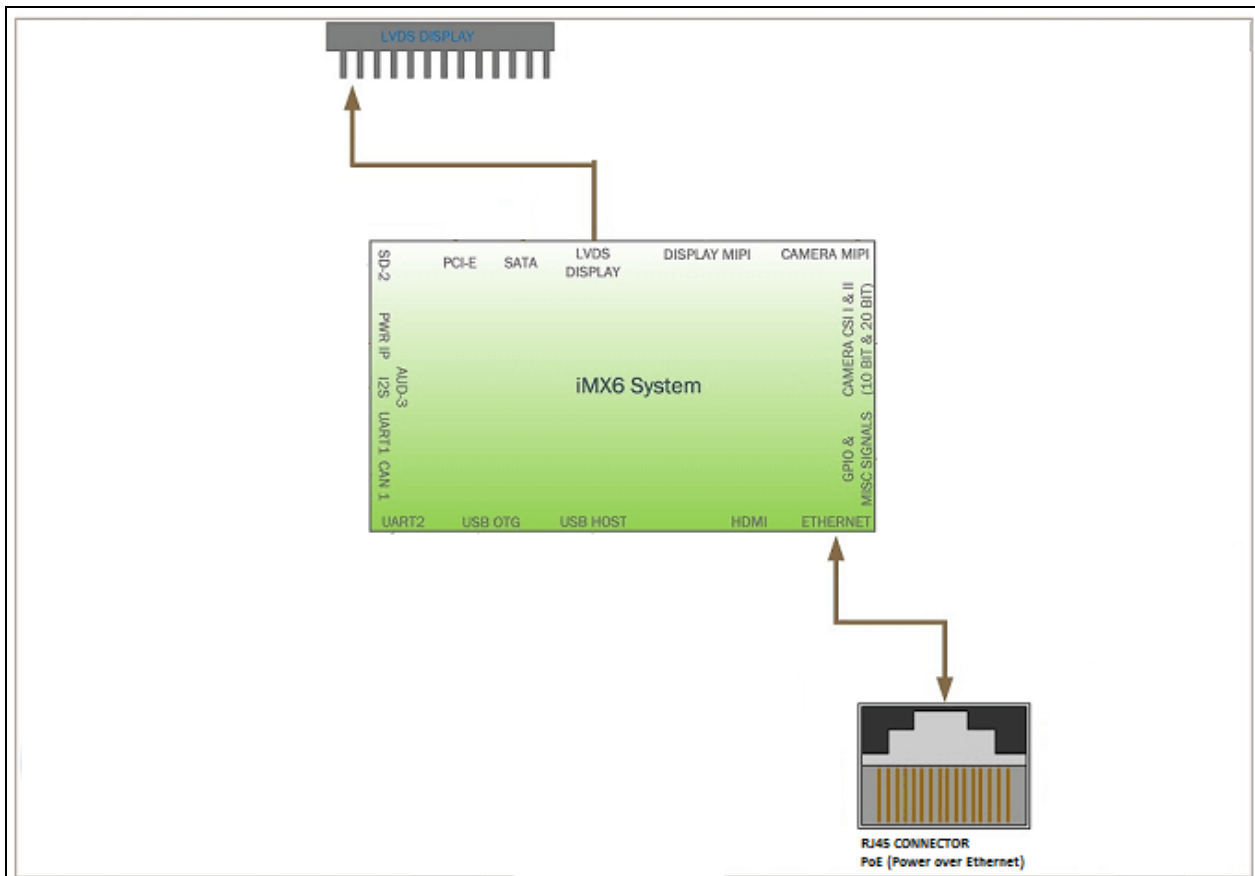


Figure 4-3: Block diagram of function

4.1 Operational conditions

4.1.1 Software

Software necessary for operating, controlling and monitoring the EUT:

Name	Identification Code/Issue	Task
Poky	2.4 (Rocko)	Operating System

4.1.2 Operation modes

☒ Normal operation

☐ Other operation:

Operation mode 1

Operation mode 2

4.2 Hardware Configuration

4.2.1 Components of the EUT

- Clear designation of the EUT (Model Number/Type Code/Serial Number)
- List of components and modules

Name	Identification Code/Issue/Serial Number	Interface type	Quantity
Touch-it CE OEM glass 7	SN: 0098912-000-002	PoE	1

4.2.2 Interface description

All interfaces are identified independent whether they are tested or not.

4.2.2.1 Power supply port

Powered via PoE (48 V)

4.2.2.2 Earthing and Grounding connections ⁵

None

⁵ Safety ground, functional earth, specific ground connections

4.2.2.3 Communication ⁶ and signal ⁷ ports

Type	Bit rate/frequency/ Signal	Task	Connected to
LAN	100 Mbit	Data transfer and PoE	---

4.2.3 Cabling

Name	Identification Code/Issue/ Serial Number	shield	Description of Connection / plug type	length	Quantity
Ethernet cable	---	yes	Connection to switch	1 m	1

4.2.4 Clock frequencies of the EUT resulting in determination of frequency range

System / Sub-system	Highest clock frequency
CPU	1 GHz

The result of the table above with the highest frequency of internal source is basis of the determination of the necessity of measurement above 1 GHz. The highest internal source of an EUT is defined as the highest frequency generated or used within the EUT or on which the EUT operates or tunes.

See **FCC §15.33 a)** for relevant frequency range of **intentional radiators**.

See **FCC §15.33 b)** for relevant frequency range of **unintentional radiators**.

See e.g. the following table taken from FCC §15.33 b) 1)

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

4.2.5 External protection devices or measures

EMC relevant external protection devices or measures specified in the user's manual (e.g. over-voltage, shielding, bonding and grounding).

None

⁶ connections to communication networks, analog, Ethernet, antenna, wireless, GPS,

⁷ Signaling, monitoring and control ports

4.2.6 Modifications during the test

None

4.2.7 Operation and monitoring equipment

Name / Identification	Task	Availability ⁸ C/L
WAGO 852-1211 S/N: 0001820000020101	Provide the PoE	C

4.3 Deviations from Standard

None

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⁸ C: Provided by the customer, L: Available at laboratory

5 Test Equipment

5.1 Test Facility

The EMC-tests are carried out in the EMC-laboratory of SGS Germany, Consumer and Retail, Hofmannstraße 50, 81379 München, Germany.

Chamber	1	2	3	4 / 5	6
Dimensions (net)	17.7 * 10.8 * 6.8 m	9.6 * 8.5 * 5.3 m	7.4 * 6.6 * 5.2 m	4.1 * 3.5 * 3.5m	6.4 * 4.3 * 4.3m
Max. Door Exit (w x h)	2.9 * 3.86 m	3.9 * 4.0 m	2.0 * 2.7 m	0.9 * 2.25 m	1.8 * 3.0 m
Shielding material	Sheet steel (Thickness: 1.5mm on floor, 1.0 mm on walls and ceiling)	Sheet steel	Sheet steel	Sheet steel	Sheet steel
Absorbers	Hybrid absorbers on walls and ceiling (TDK), length 1 m	Hybrid absorbers on walls and ceiling (E+C), length 0.5 m	Hybrid absorbers on walls and ceiling (E+C), length 0.3 m	Without absorbers	Without absorbers
Floor	Metallic ground plane floor load: 12 t/m²	Metallic ground plane floor load: 1.5 t/m²	Metallic ground plane floor load: 1 t/m²	Metallic ground plane	Metallic ground plane
Turntable	Ø 4 m / 7 t	Ø 3.2 m / 1.5 t	Ø 2.0 m / 1 t		
Listings		VCCI-listed until Oct. 2019, Reg. No. R-2623, G-266			VCCI-listed until Oct. 2019, Reg. No. C-2866 & No. T-1942
Specials	Emission: 30 – 1000 MHz (d = 10 m) - NSA acc. to: • CISPR 16-1-4 • ANSI C63.4 1 – 18 GHz (d = 3 m) Site VSWR 1 – 18 GHz acc. to CISPR 16-1-4	Emission: 30 – 1000 MHz (d = 3 m) - NSA acc. to: • CISPR 16-1-4 • ANSI C63.4 1 – 18 GHz (d = 3 m) Site VSWR 1 – 18 GHz acc. to CISPR 16-1-4	Emission: 30 – 1000 MHz (d = 3 m) - NSA acc. to: • CISPR 16-1-4 • ANSI C63.4 1 – 18 GHz (d = 3 m) Site VSWR 1 – 18 GHz acc. to CISPR 16-1-4		
	Immunity: Field uniformity 27 – 6000 MHz acc. IEC/EN 61000-4-3	Immunity: Field uniformity 80 – 6000 MHz acc. IEC/EN 61000-4-3	Immunity: Field uniformity 80 – 6000 MHz acc. IEC/EN 61000-4-3		

FCC (Federal Communication Commission): Recognition by Bundesnetzagentur (BNetzA-CAB-14/21-09) and Designation as CAB (Conformity Assessment Body) : Designation Number DE0013; Test firm Registration #: 366296
Designation KBA (Kraftfahrt-Bundesamt) as Technical Service category A and D. Registration Number: KBA-P 00083-97
CB Testing Laboratory under the responsibility of SGS CEBEC as National Certification Body and to carry out testing within the IECEE CB Scheme .
Designation No. for RRA (Radio Research Agency) in Korea ; EU0145

5.2 Measurement Uncertainty

As far as the underlying standards include requirements concerning the uncertainty of measuring instruments or measuring methods, they are met.

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The expanded measurement uncertainty of the measuring chain was calculated for all tests according to the "ISO Guide to the expression of uncertainty in measurement (GUM)". The results are documented in an "internal controlled document".

The measuring accuracy for all measuring devices is given in their technical description. The measuring instruments, including any accessories, are calibrated respectively verified to ensure the necessary accuracy. Depending on the kind of measuring equipment it is checked within regular intervals or directly before the measurement is performed. Adjustments are made and correction factors applied to measured data in accordance with the specifications of the specific instrument.

The expanded measurement instrumentation uncertainty of our Test Laboratory meets the requirements of IEC CISPR 16-4-2 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4-2: Uncertainties, statistics and limit modeling – Measurement instrumentation uncertainty" and the relevant basic standards for all listed Tests.

6 Test Conditions and Results

6.1 Conducted disturbance (150 kHz to 30 MHz)

Phenomena	Reference	Frequency Range	Criteria	Verdict ¹
Conducted Emission AC Power Ports	FCC 47 CFR Part 15 §15.107	150 kHz – 30 MHz	Class A	NA ³

6.2 Radiated disturbances (30 MHz to 1000 MHz)

Phenomena	Reference	Frequency Range	Criteria	Verdict ¹
Radio Disturbance Elec- tric Field	FCC 47 CFR Part 15 §15.109	30 MHz - 1 GHz distance 3 m	Class A	P

Test procedure:

Radiated measurements are performed in a semi-anechoic chamber meeting the normalized site attenuation of ANSI C63.4 and listed with the FCC. The applicable frequency spectrum is scanned with a calibrated RF measuring system using an appropriate broadband antenna and an EMI-receiver/spectrum analyzer and compared to the required limits. The measuring instrument performs the field strength calculations automatically. The measuring software provides resident AF and CF figures for individual antennas and cables. The receiver/analyzer is set to "peak" mode from 30 MHz to 1 GHz. On any emission of concern, the receiver is set to quasi-peak mode.

"Maximization" of each suspect frequency is accomplished by a combination of a 360° azimuth search using a turntable and varying the antenna to ground plane height from 1 m to 4 m. Also, both the vertical and horizontal polarization is scanned in the required frequency range per ANSI C63.4.

Maximization of emission results starts at 0° of the turn table with antenna in horizontal polarization is set to 1 m. While the turntable slowly moves to 360°, the spectrum analyzer is sweeping from 30 to 1000 MHz and maximum data is recorded. Antenna is set to 2 m and turntable slowly moves back to 0° while the spectrum analyzer is sweeping again. This is repeated until the antenna height of 4 m is reached.

The antenna polarization is set to vertical and the procedure described above is repeated.

For each frequency the measuring software stores the maximum level as well as the corresponding settings of turntable and antenna. An azimuth resolution of about 3° is realized using this method.

At least the six highest frequencies are selected automatically by the software for performing the final measurements.

At each of these frequencies the turntable as well as the antenna is set to the corresponding settings. Then the antenna is slowly moved 50 cm down/up related to initial position while the receiver is measuring at this frequency. The highest emission level and the corresponding height are recorded. At this final position, the measurement is performed with quasi-peak detector.

Exploratory emission measurements are to be performed considering operation states and cable arrangement to evaluate configuration with highest emission levels (C63.4, Clause 8.3.1 and 8.3.2).

Table-top equipment is arranged 80 cm above ground plane.

Test location: semi anechoic chamber No. 3

EMC-Test-SW: EMC32 version 10.40.10 (R&S)

Sample Calculation with all conversion and correction factors used:

$$\sum CF = CF_{\text{Cables}} + CF_{\text{Antenna}}$$

Instruments and accessories

ID	Description	Manufacturer	Model	Serial No.	Status	Cal. date	Cal. due
P1326	EMI receiver	R&S	ESU26	100058	cal	Apr 05, 2018	Apr 2020
P0338	test chamber 3	Siemens			chk	Feb 22, 2019	Feb 2020
P0399	power supply	Gossen	34G80R4	470	ind		
P0311	antenna	Chase	CBL6111	2409	cal	Mar 30, 2018	Mar 2021
P1303	Mast (MZ3)	innco GmbH	MA 4660-XPET		cnn		
P1304	Controller	innco GmbH	CO 3000	CO3000/915	cnn		

cal = Calibration, car = Calibration restricted use, chk = Check, chr = Check restricted use, cpu = Check prior to use, calchk = Calibration and check, ind = for indication only, cnn = Calibration not necessary, man = Maintenance

Photo documentation of the test set-up:

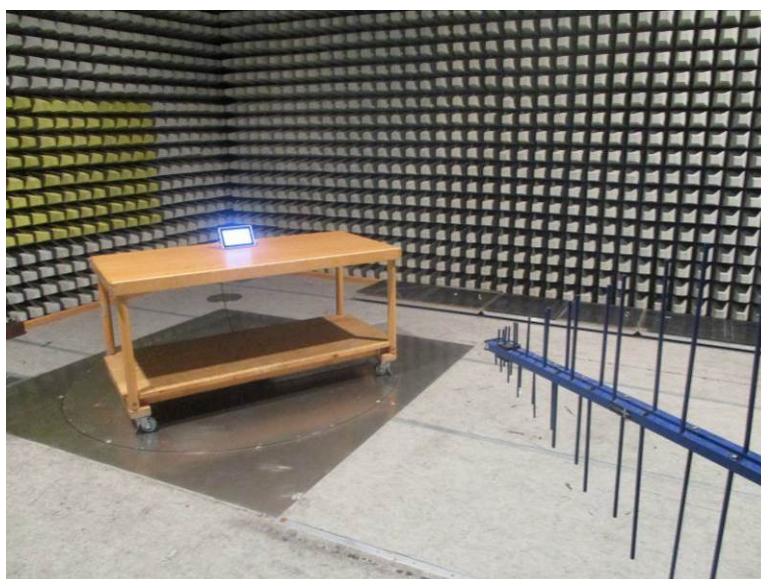


Figure 6-1: test setup for Radiated disturbances 30 MHz to 1000 MHz

Result:

verdict:	pass
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For detailed results, please see below.

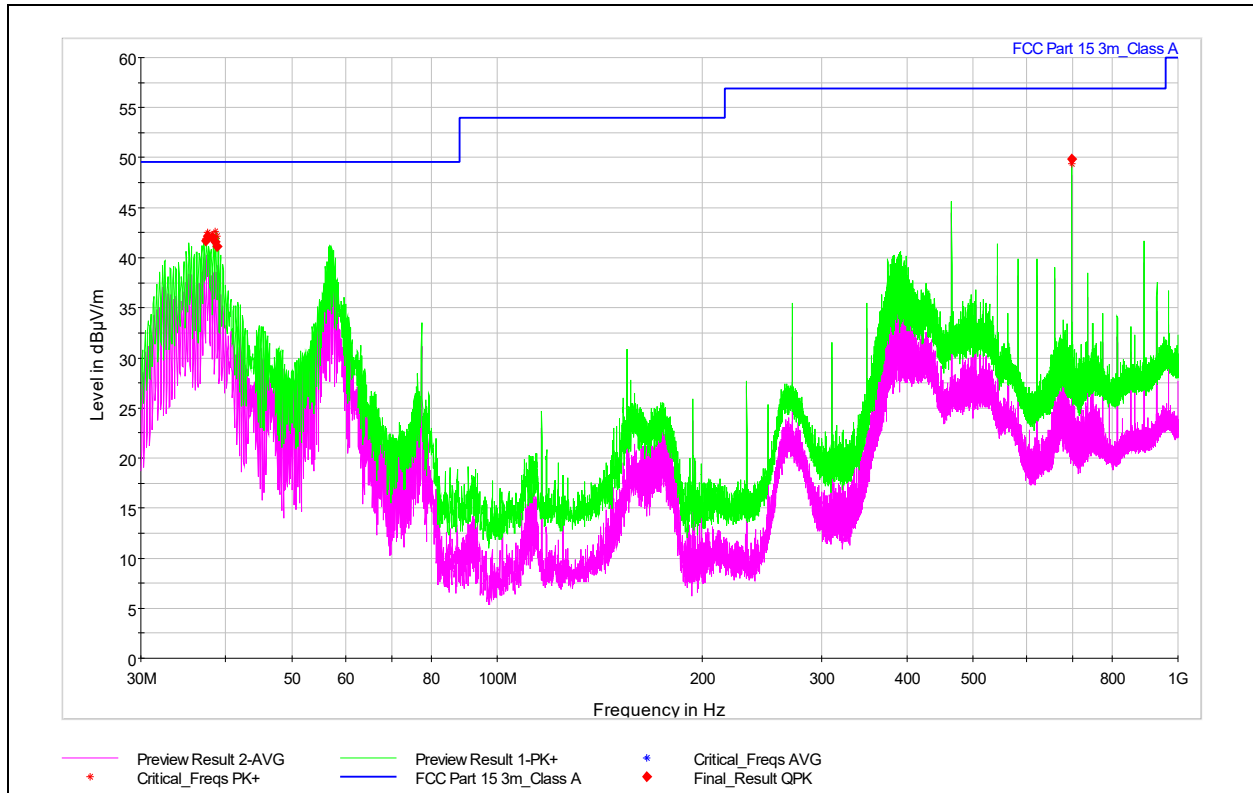


Figure 6-2: Graphical presentation Radiated disturbances 30 MHz to 1000 MHz

Result table:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.309500	41.68	49.60	7.92	1000.0	120.000	103.0	V	329.0	15
37.609000	42.16	49.60	7.44	1000.0	120.000	100.0	V	311.0	15
38.202000	42.03	49.60	7.57	1000.0	120.000	102.0	V	125.0	15
38.541500	41.57	49.60	8.03	1000.0	120.000	100.0	V	134.0	15
38.792500	41.09	49.60	8.51	1000.0	120.000	105.0	V	258.0	15
698.213000	49.88	56.90	7.02	1000.0	120.000	107.0	H	13.0	22

6.3 Radiated disturbances (1 GHz to 6 GHz)

Phenomena	Reference	Frequency Range	Criteria	Verdict ¹
Radio Disturbance Elec- tric Field	FCC 47 CFR Part 15 §15.109	1 GHz - 6 GHz Distance 3 m	Class A	P

Test Execution

Radiated measurements are performed in a semi-anechoic chamber meeting the normalized site attenuation of ANSI C63.4 as well as the Site VSWR requirements of CISPR16 and listed with the FCC. The applicable frequency spectrum is scanned with a calibrated RF measuring system using an appropriate broadband antenna and an EMI-receiver/spectrum analyzer and compared to the required limits. The measuring instrument performs the field strength calculations automatically. The measuring software provides resident AF and CF figures for individual antennas and cables. The receiver/analyzer is set to "peak" mode in the relevant frequency range. On any emission of concern, the receiver is set to average mode.

For EUTs having a size larger than the beamwidth of the antenna, appropriate countermeasures shall be taken, e.g. increasing the measuring distance or different antenna positions (lateral) to scan the complete surface of EUT.

"Maximization" of each suspect frequency is accomplished by a combination of a 360° azimuth search using a turntable and varying the antenna to ground plane height from 1 m to 4 m. Both, the vertical and horizontal polarization is scanned in the required frequency range per ANSI C63.4.

Maximization of emission results starts at 0° of the turn table with antenna in horizontal polarization is set to 1 m. While the turntable slowly moves to 360°, the spectrum analyzer is sweeping from 1 to 6 GHz and maximum data is recorded. Antenna is set to 1.5 m and turntable slowly moves back to 0° while the spectrum analyzer is sweeping again. This is repeated until the antenna height of 4 m is reached (step: 0.5m).

The antenna polarization is set to vertical and the procedure described above is repeated.

For each frequency the measuring software stores the maximum level as well as the corresponding settings of turntable and antenna. An azimuth resolution of about 3° is realized using this method.

At least the six highest frequencies are selected automatically by the software for performing the final measurements. At each of these frequencies the turntable as well as the antenna is set to the corresponding settings. Then the antenna is slowly moved 25 cm down/up related to initial position while the receiver is measuring at this frequency. The highest emission level and the corresponding height are recorded. At this final position, the measurement is performed with average detector.

Exploratory emission measurements are to be performed considering operation states and cable arrangement to evaluate configuration with highest emission levels (C63.4, Clause 8.3.1 and 8.3.2).

Final measurements were performed acc C63.4, clause 8.3.2.2 aimed at the emission source for receiving the maximum signal.

Table-top equipment is arranged 80 cm above ground plane.

Test location: semi anechoic chamber No. 3

EMC-Test-SW: EMC32 version 10.50.00 (R&S)

Sample Calculation with all conversion and correction factors used:

$$\sum CF = CF_{\text{Cables}} + CF_{\text{Antenna}} + CF_{\text{Preamplifier}}$$

Instruments and accessories

ID	Description	Manufacturer	Model	Serial No.	Status	Cal. date	Cal. due
P1303	Mast (MZ3)	innco GmbH	MA 4660-XPET		cnn		
P1304	Controller	innco GmbH	CO 3000	CO3000/915	cnn		
P1326	EMI receiver	R&S	ESU26	100058	cal	Apr 05, 2018	Apr 2020
P0338	test chamber 3	Siemens			chk	Feb 22, 2019	Feb 2020
P0399	power supply	Gossen	34G80R4	470	ind		
P0030	antenna (MZ3)	EATON	96001	2622	cal	Apr 11, 2018	Apr 2020
P1650	preamplifier (MZ3)	Kuhne electronic	KU LNA BB 202 A, Freq. 0,1 - 20GHz		cal	Apr 10, 2019	Apr 2021

cal = Calibration, car = Calibration restricted use, chk = Check, chr = Check restricted use, cpu = Check prior to use, calchk = Calibration and check, ind = for indication only, cnn = Calibration not necessary, man = Maintenance

Photo documentation of the test set-up:

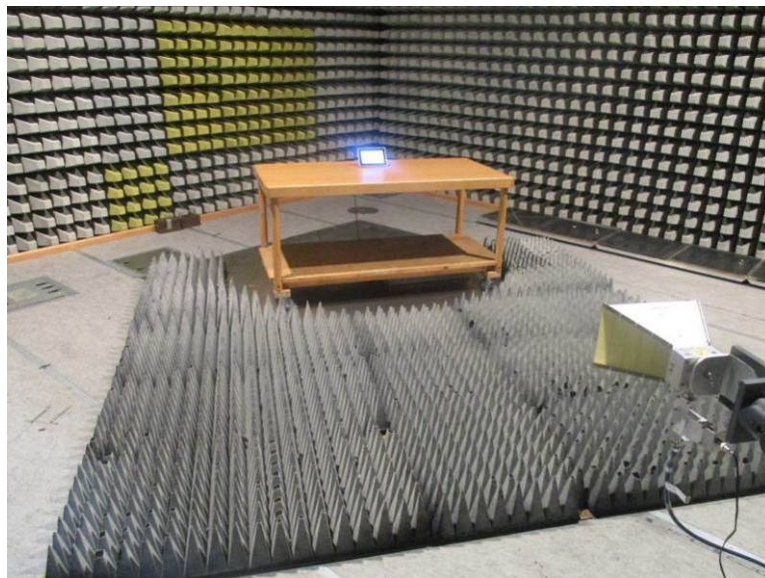


Figure 6-3: test setup for radiated disturbances 1 GHz to 6 GHz

Result:

verdict:	pass
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For detailed results, please see below.

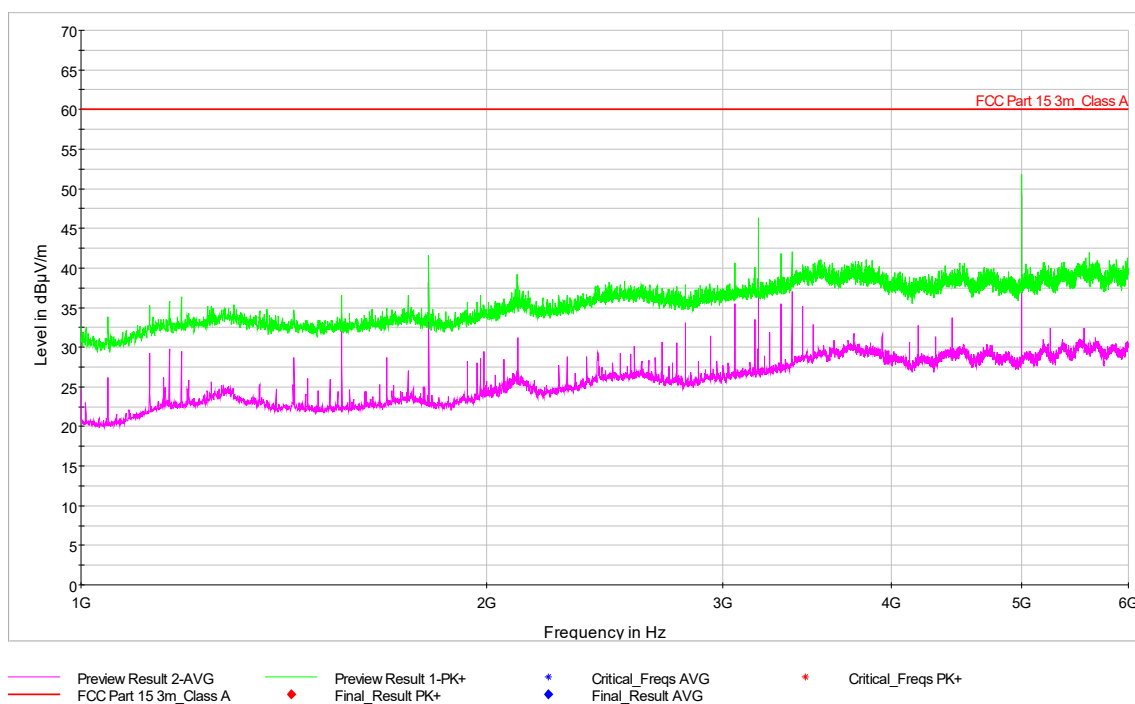


Figure 6-4: Graphical presentation Radiated disturbances 1 GHz to 6 GHz

Result table:

N/A because of margin to the limit > 10 dB

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