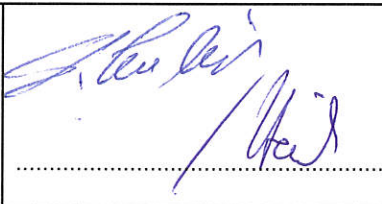


EMC TEST REPORT FCC 47 CFR Part 15B, ISED ICES-003 Issue 6	
Report Reference No	G0M-1909-8482-EF0115B-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	    DAKKS - Registration number : D-PL-12092-01-03 (ISED) ISED Testing Laboratory site: 3470A-2 DAKKS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	ACL GmbH
Address	Apelsteinallee 5 04416 Markkleeberg GERMANY
Test Specification	
Standard	47 CFR Part 15 Subpart B ISED ICES-003 Issue 6 ANSI C63.4:2014
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	display to be used in the medical/hospital environment
Model(s)	OR-MD® 15
Additional Model(s)	None
Brand Name(s)	OR-MD (Trademark registration No.: 014037527)
Hardware Version(s)	no hardware versions established for this product, hardware configuration #1516419004708
Software Version(s)	device without software, software on accessories shall not be part of this test
FCC-ID	2AUWB1
IC	-/-
Test Result	PASSED

Possible test case verdicts:		
required by standard but not tested	N/T	
not required by standard	N/R	
required by standard but not appl. to test object	N/A	
test object does meet the requirement	P(PASS)	
test object does not meet the requirement	F(FAIL)	
Testing:		
Date of receipt of test item	2019-09-26	
Report:		
Compiled by	Stephan Liebich	
Tested by (+ signature) (Responsible for Test)	Stephan Liebich Matthias Handrik	
Approved by (+ signature) (Deputy Head of Lab)	Jens Marquardt	
Date of Issue	2019-10-25	
Total number of pages	36	
General Remarks:		
The test results presented in this report relate only to the object tested. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.		
Additional Comments:		

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
T _{NOM}	Nominal operating temperature
V _{NOM}	Nominal supply voltage

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2019-10-25	Initial Release	

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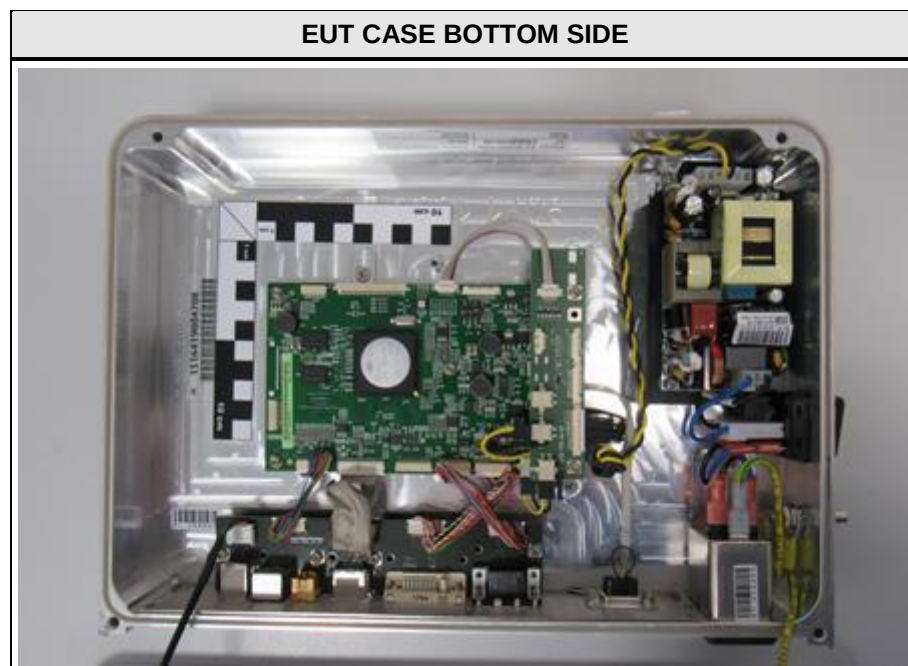
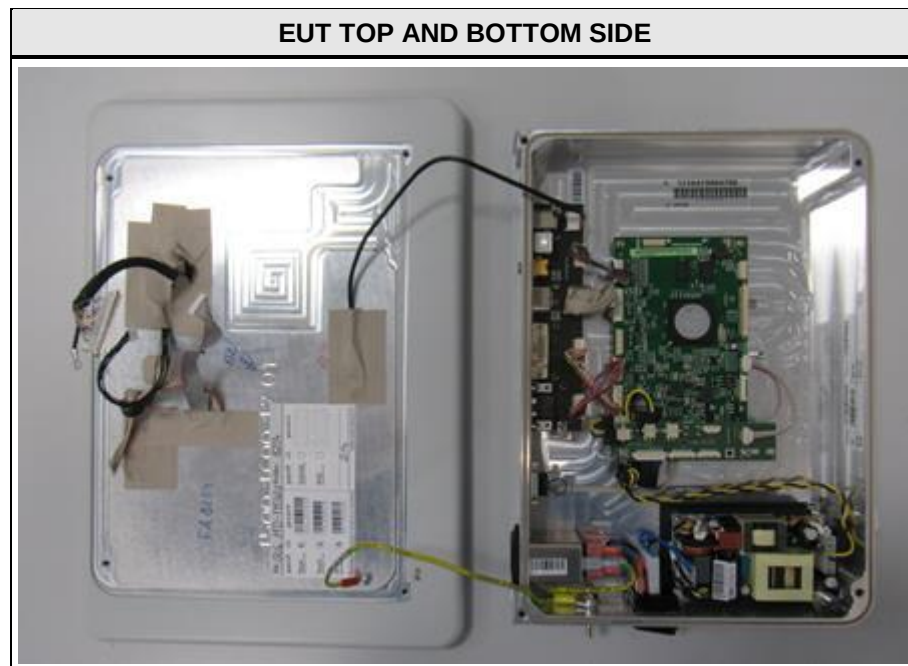
1 Equipment (Test Item) Under Test

Description	display to be used in the medical/hospital environment	
Model	OR-MD® 15	
Additional Model(s)	None	
Brand Name(s)	OR-MD (Trademark registration No.: 014037527)	
Serial Number(s)	1516419004708	
Hardware Version(s)	no hardware versions established for this product, hardware configuration #1516419004708	
Software Version(s)	device without software, software on accessories shall not be part of this test	
FCC-ID	2AUWB1	
IC	-/-	
Class	Class B	
Equipment type	Table top	
Highest internal frequency [MHz]	5400	
Radio Module	None	
Supply Voltage	V _{NOM}	120 V / 60 Hz
AC/DC-Adaptor	None	
Manufacturer	ACL GmbH Apelsteinallee 5 04416 Markkleeberg GERMANY	

1.1 Equipment Ports

Name	Type	Attributes	Comment
POWER	AC	Count: 1 Direction: In Service only: No	-
Composite	IO	Count: 1 Direction: In Service only: No	-
S-Video	IO	Count: 1 Direction: In Service only: No	-
DVI	IO	Count: 1 Direction: In/Out Service only: No	-
VGA	IO	Count: 1 Direction: In Service only: No	-
DP	IO	Count: 1 Direction: In/Out Service only: No	-
USB	IO	Count: 1 Direction: Out Service only: No	-
RS232	IO	Count: 1 Direction: In/Out Service only: Yes	-
Description:			
AC	AC mains power input/output port		
DC	DC power input/output port		
BAT	DC power input port connected to external battery		
IO	Input/Output port		
TP	Telecommunication port		
NE	Non-electrical port		

1.2 Equipment Photos - Internal



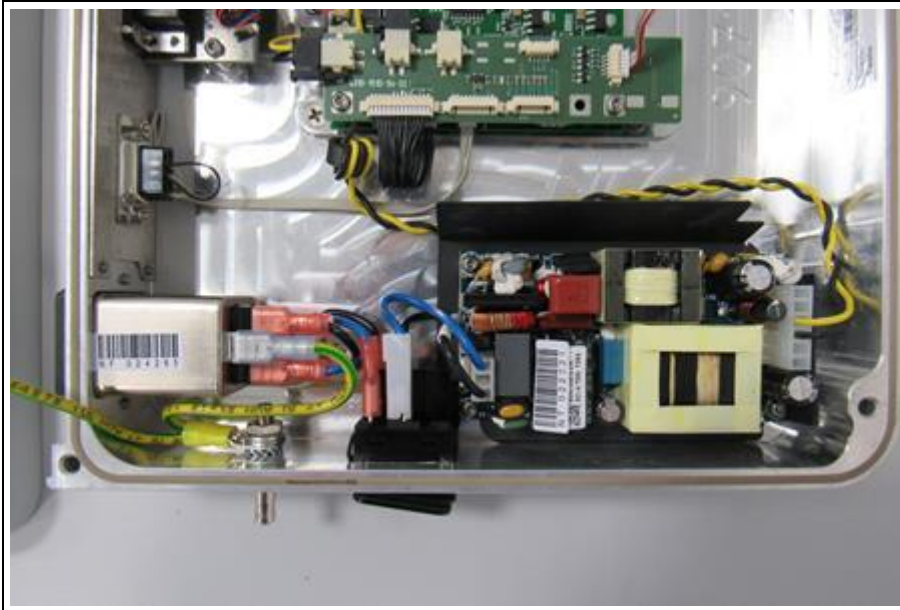
EUT CASE TOP SIDE



EUT PCB



EUT POWER CONVERTER



EUT LABEL INSIDE



EUT REAR SIDE WITHOUT SCREWS



1.3 Equipment Photos - External



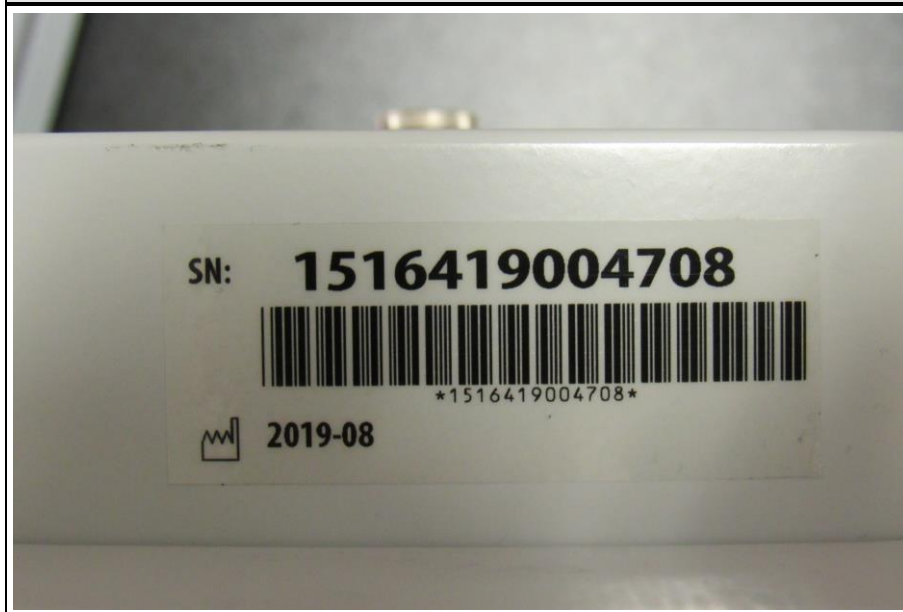
EUT BOTTOM SIDE



EUT LEFT SIDE



EUT LABEL 1



EUT RIGHT SIDE



EUT LABEL 2



EUT TOP SIDE



1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
SIM	Software	tsato	v0.1	ITU-R BT.1729 Colour Bar with Moving Element
CBL	power cable US	Micro Accessories Germany GmbH	CB-N-USHG	NEMA 5-15P to C13, 2m
CBL	signal cable composite	INTOS ELECTRONIC AG	89802P	Cinch to Cinch, 2m
CBL	signal cable S- Video	INTOS ELECTRONIC AG	89950P	S-Video to S- Video,2m
CBL	signal cable DVI	StarTech.com Ltd.	DVIDDMM6	DVI-D to DVI-D, 1.8m
CBL	signal cable VGA	StarTech.com Ltd.	MXTMMHQ2M	VGA to VGA, 2m
CBL	USB cable	StarTech.com Ltd.	USBHAB6	USB A to USB B, 1.8m
CBL	DP cable	StarTech.com Ltd.	DISPL2M	DP to DP, 2m
SIM	OR-PC	ACL GmbH	OR-PC® OD	signal source
AE	ground connector interface	ACL GmbH	-	-
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
MON	Monitoring Equipment			
CBL	Connecting Cable			
Comment:				

1.5 Operational Modes

Mode #	Description
1	A motion picture (ITU-R BT.1729 Colour Bar with Moving Element) program is carried out via OR-PC and Displayed via EUT with maximum hardware acceleration and 1920x1080 screen resolution.
Comment:	

1.6 EUT Configuration

Configuration #	Description
1	EUT is powered up and powered with 120 V / 60 Hz. EUT is connected with ground connector interface via signal cable composite, signal cable S-Video, signal cable DVI and signal cable VGA. EUT is connected with OR-PC via DP and USB cable. EUT, ground connector interface and OR-PC are grounded. OR-PC are powered with 120 V / 60 Hz.
Comment: Horizontal position of the EUT is the worst case	

1.7 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyser in dBµV. Any external preamplifiers used are taken into account through internal analyser settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyser. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyser (dB}\mu\text{V)} + \text{A.F. (dB/m)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dBµV/m). The FCC limits are given in units of µV/m. The following formula is used to convert the units of µV/m to dBµV/m:

$$\text{Limit (dB}\mu\text{V/m)} = 20 \cdot \log(\mu\text{V/m})$$

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

Reading + AF	= Net Reading	:	Net reading - FCC limit	= Margin
+21.5 dBµV + 26 dB/m	= 47.5 dBµV/m	:	47.5 dBµV/m - 57.0 dBµV/m	= -9.5 dB

2 Result Summary

FCC 47 CFR Part 15B, ISED ICES-003 Issue 6				
Reference	Requirement	Reference Method	Result	Remarks
Emission				
FCC 15.109 ICES-003, 8, 6.1	Radiated emissions	ANSI C63.4:2014	PASS	1
FCC 15.107 ICES-003, 8, 6.2	AC power line conducted emissions	ANSI C63.4:2014	PASS	-
Comment: 1 → The test data of the worst-case conditions were recorded and shown on the next pages.				

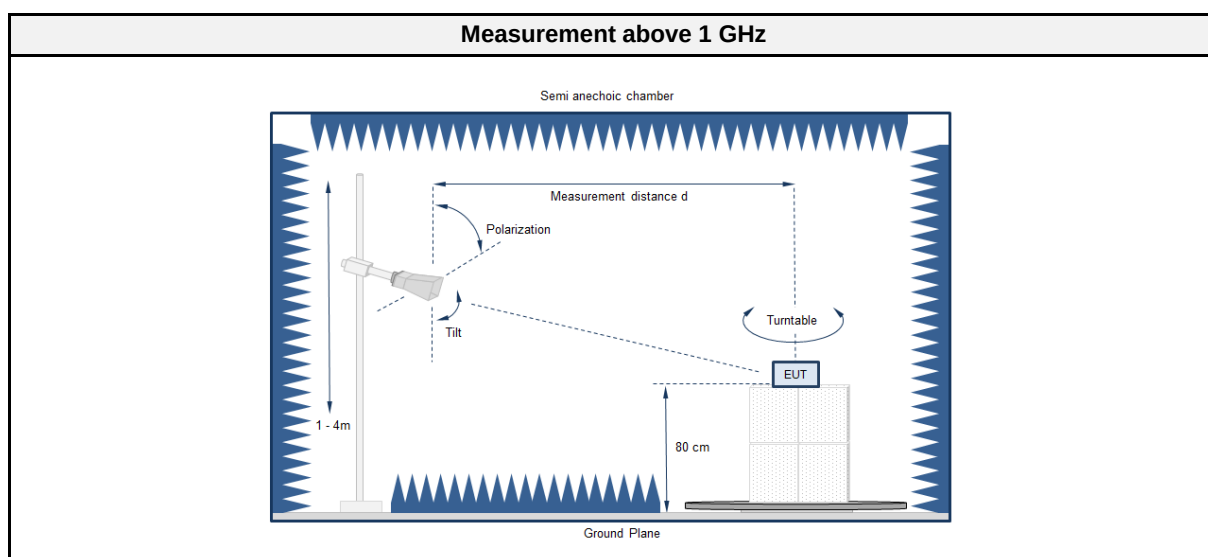
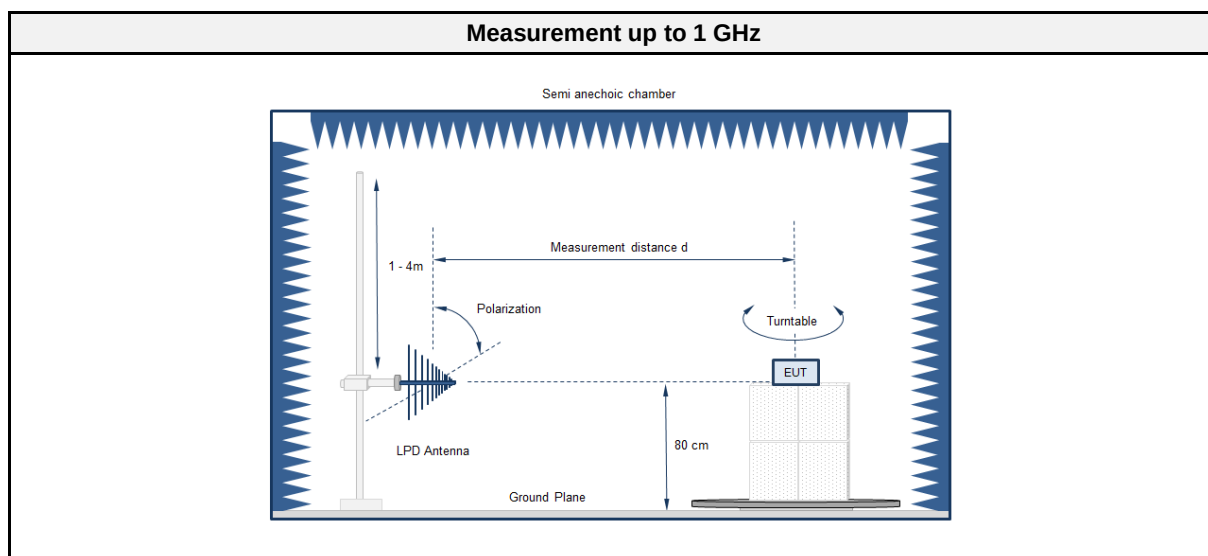
Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

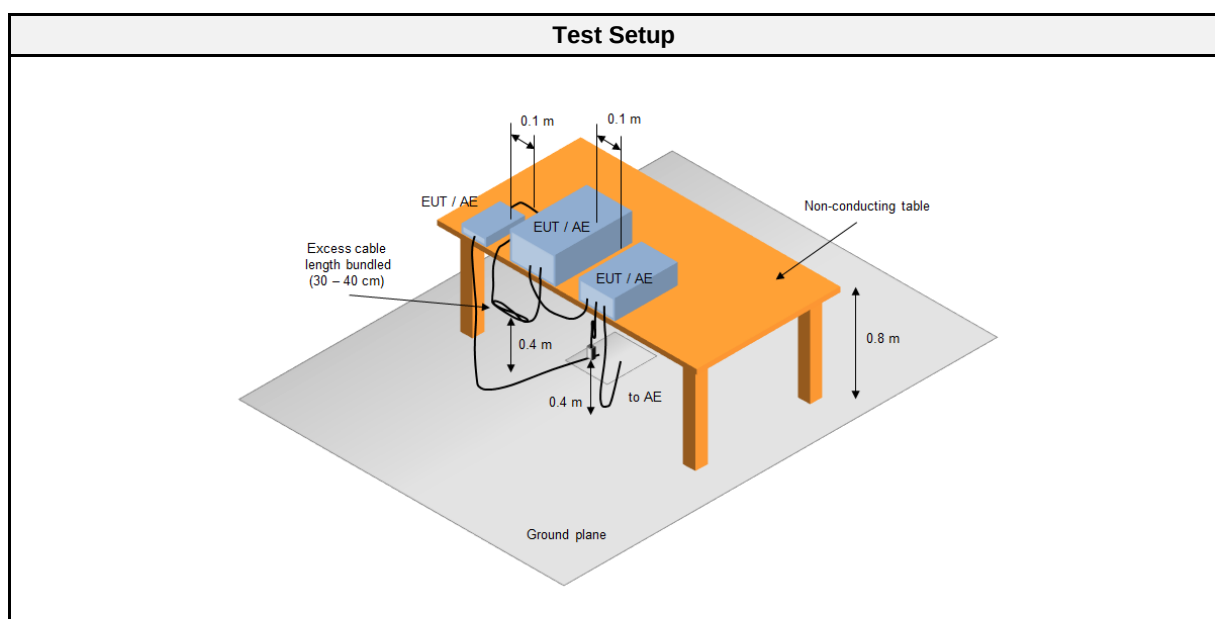
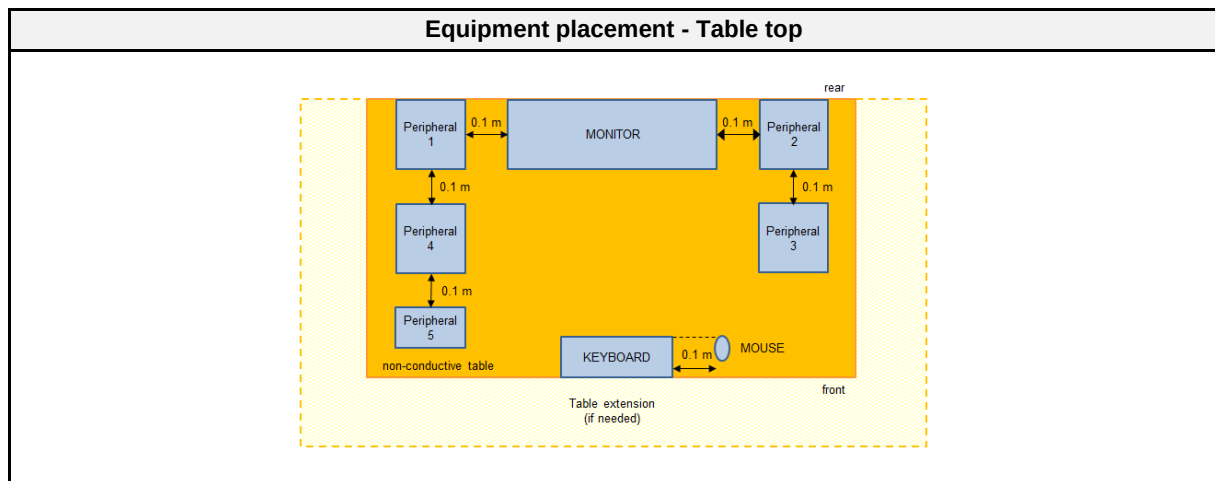
2.1 Test Conditions and Results - Radiated emissions acc. to ANSI C63.4

2.1.1 Information

Test Information	
Reference	FCC 15.109, ICES-003, 8, 6.1
Reference method	ANSI C63.4:2014 Section 8
Equipment class	Class B
Equipment type	Table top
Highest internal frequency [MHz]	5400
Measurement range	30 MHz to 27000 MHz
Temperature [°C]	23
Humidity [%]	50
Operator	Stephan Liebich
Date	2019-10-01

2.1.2 Setup





2.1.3 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	Radimation	2016.1.10

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic chamber	Frankonia	AC1	EF00062	2018-07	2021-07
EMI Test Receiver	R&S	ESU8	EF00379	2019-07	2020-07
40GHz Standard Gain Horn with Amplifier	Flann Microwave Ltd	22240-25 Amp. CBL26402075	EF00301	2016-11	2019-11
Spectrum analyzer	Rohde & Schwarz Vertriebs GmbH	FSW43	EF00896	2019-07	2020-07
40GHz High Gain Antenna	Amplifier Research	AT4560	EF00302	2019-05	2020-05
Biconical Antenna	R&S	HK 116	EF00030	2019-04	2022-04
LPD Antenna	R&S	HL 223	EF00187	2019-05	2022-05
Horn antenna	Schwarzbeck	BBHA 9120D (1-18GHz)	EF00018	2019-10	2021-10

Test Report No.: G0M-1909-8482-EF0115B-V01

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Climatic Sensor	Embedded Data Systems, LLC.	2800100000254 17E	EF01054	2019-05	2020-05
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2.1.4 Procedure

Exploratory measurement	
1.	The EUT was placed on a non-conductive table at a height of 0.8m.
2.	The EUT and support equipment, if needed, were set up to simulate typical usage.
3.	Cables, of type and length specified by the manufacturer, were connected to at least one port of each type and were terminated by a device or simulating load of actual usage.
4.	The antenna was placed at a distance of 3 or 10 m.
5.	The received signal was monitored at the measurement receiver.
6.	This procedure has to be performed in both antenna polarizations, horizontal and vertical.
7.	The arrangement of the equipment with the maximum emission level is shown on the setup picture at item 1.3

Final measurement	
1.	The EUT was placed on a 0.8 m non-conductive table at a 3 m distance from the receive antenna. The antenna output was connected to the measurement receiver.
2.	A biconical antenna was used for the frequency range 30 – 200 MHz, a logarithmic periodical antenna was used for the frequency range from 200 – 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast.
3.	The EUT and cable arrangement were based on the exploratory measurement results.
4.	Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded.
5.	The test data of the worst-case conditions were recorded and shown on the next pages.

2.1.5 Limits

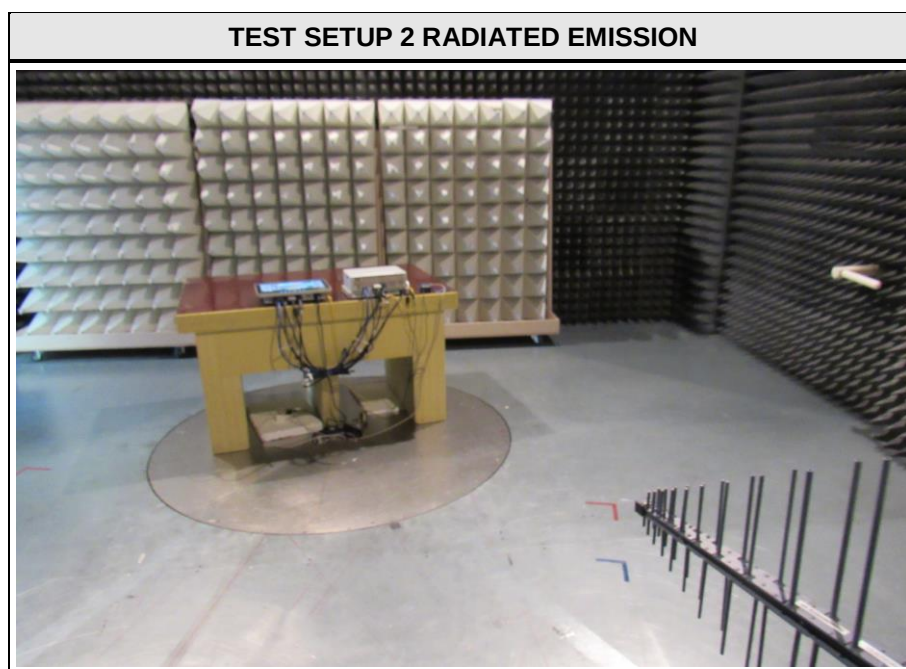
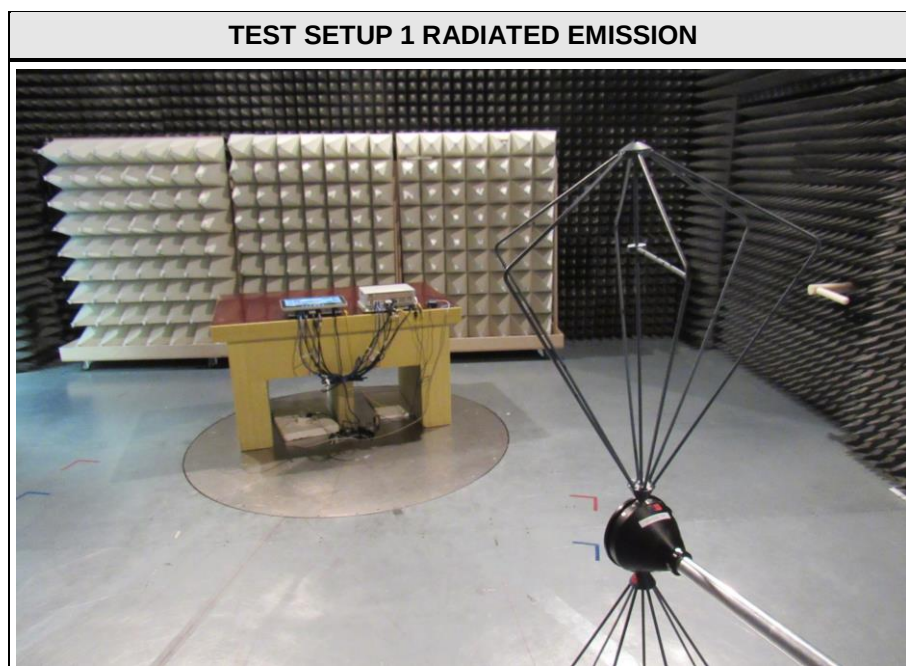
Class B @ 3 m		
Frequency [MHz]	Detector	Limit [dBμV/m]
30 - 88	Quasi-peak	40
88 - 216	Quasi-peak	43.5
216 - 960	Quasi-peak	46
960 - 1000	Quasi-peak	54
> 1000	Peak	74
	Average	54

Class A @ 10 m		
Frequency [MHz]	Detector	Limit [dBμV/m]
30 - 88	Quasi-peak	39
88 - 216	Quasi-peak	43.5
216 - 960	Quasi-peak	46.5
960 - 1000	Quasi-peak	49.5
> 1000	Peak	69.5
	Average	49.5

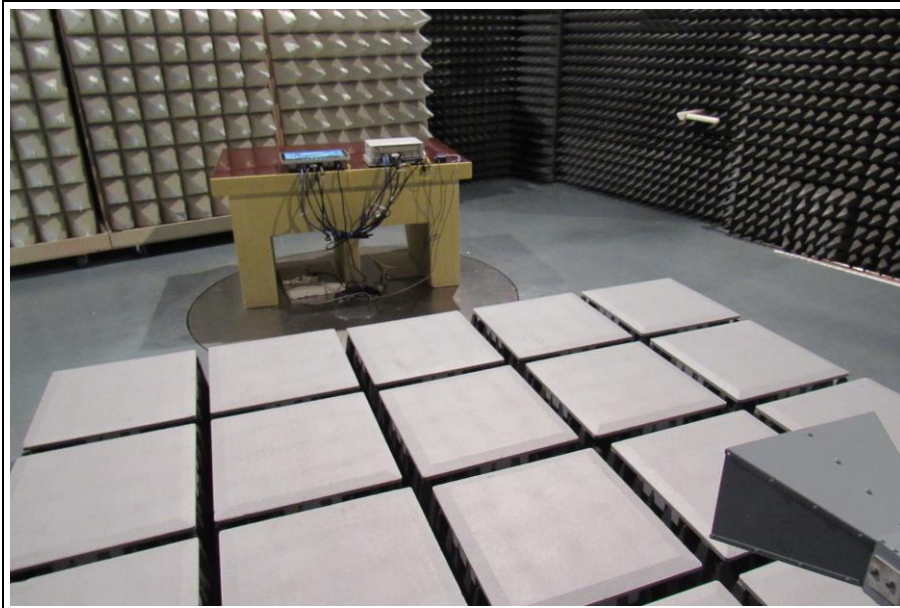
2.1.6 Results

Test Results			
Operational mode	EUT Configuration	Verdict	Remark
1	1	PASS	1
Comment: 1 → The test data of the worst-case conditions from 30 MHz to 8 GHz were recorded and shown on the next pages. Above 8 GHz were no relevant peaks detected with Spectrum analyzer.			

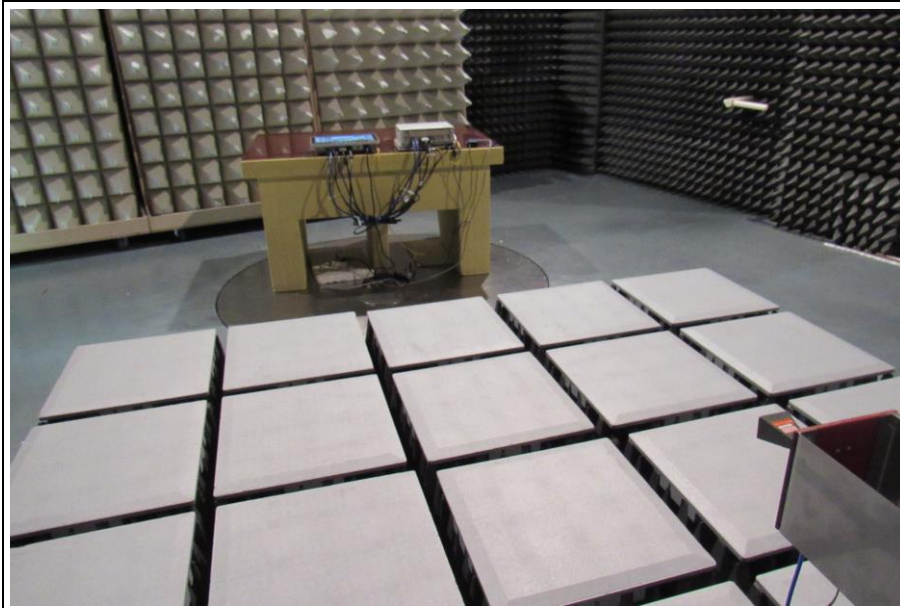
2.1.7 Setup Photos



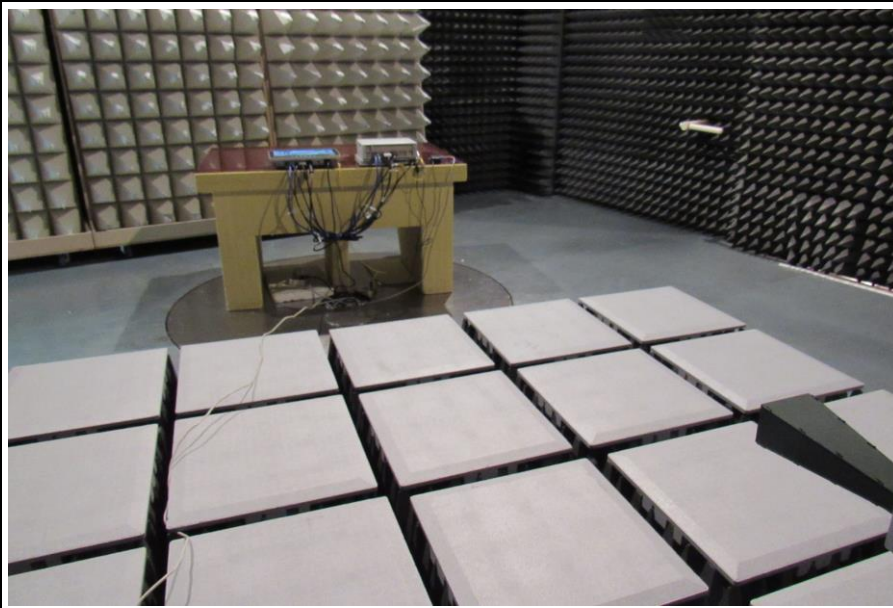
TEST SETUP 3 RADIATED EMISSION



TEST SETUP 4 RADIATED EMISSION



TEST SETUP 5 RADIATED EMISSION



TEST SETUP FOCUS RADIATED EMISSION



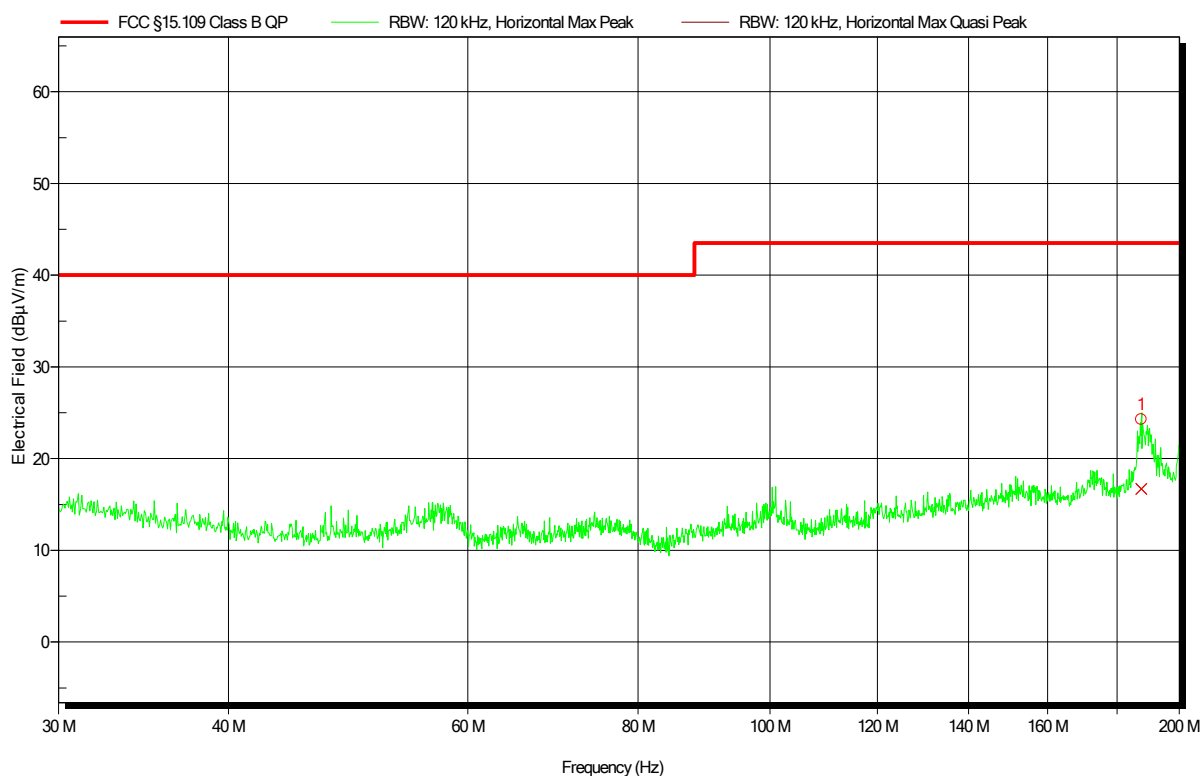
2.1.8 Records

Radiated emissions according to FCC part 15B

Project number: G0M-1909-8482

Applicant: ACL GmbH
 EUT Name: display to be used in the medical/hospital environment
 Model: OR-MD® 15
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Conditions: Tnom: 23°C, Unom: 120 V / 60 Hz
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3m
 Mode: 1
 Test Date: 2019-10-01
 Note:

Index 4



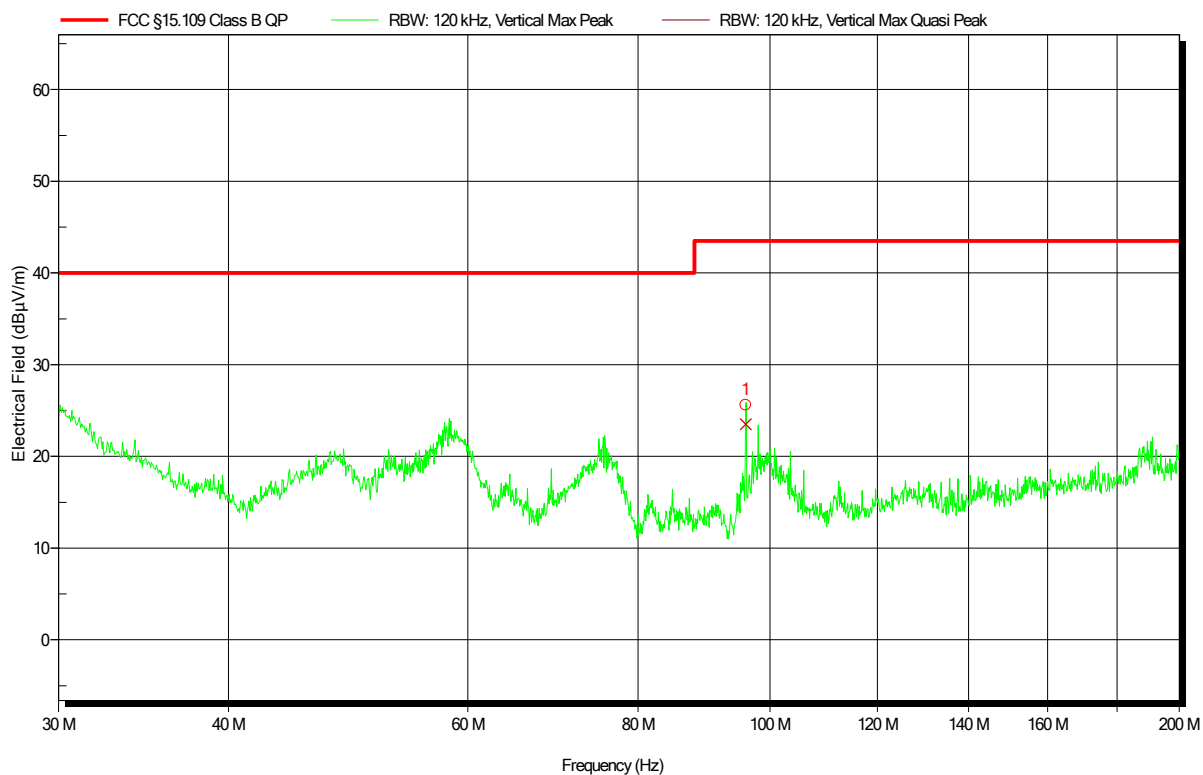
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	187.56 MHz	16.71 dBµV/m	43.52 dBµV/m	-26.82 dB	Pass	0 Degree	1 m

Radiated emissions according to FCC part 15B

Project number: G0M-1909-8482

Applicant: ACL GmbH
 EUT Name: display to be used in the medical/hospital environment
 Model: OR-MD® 15
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Conditions: Tnom: 23°C, Unom: 120 V / 60 Hz
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3m
 Mode: 1
 Test Date: 2019-10-01
 Note:

Index 3



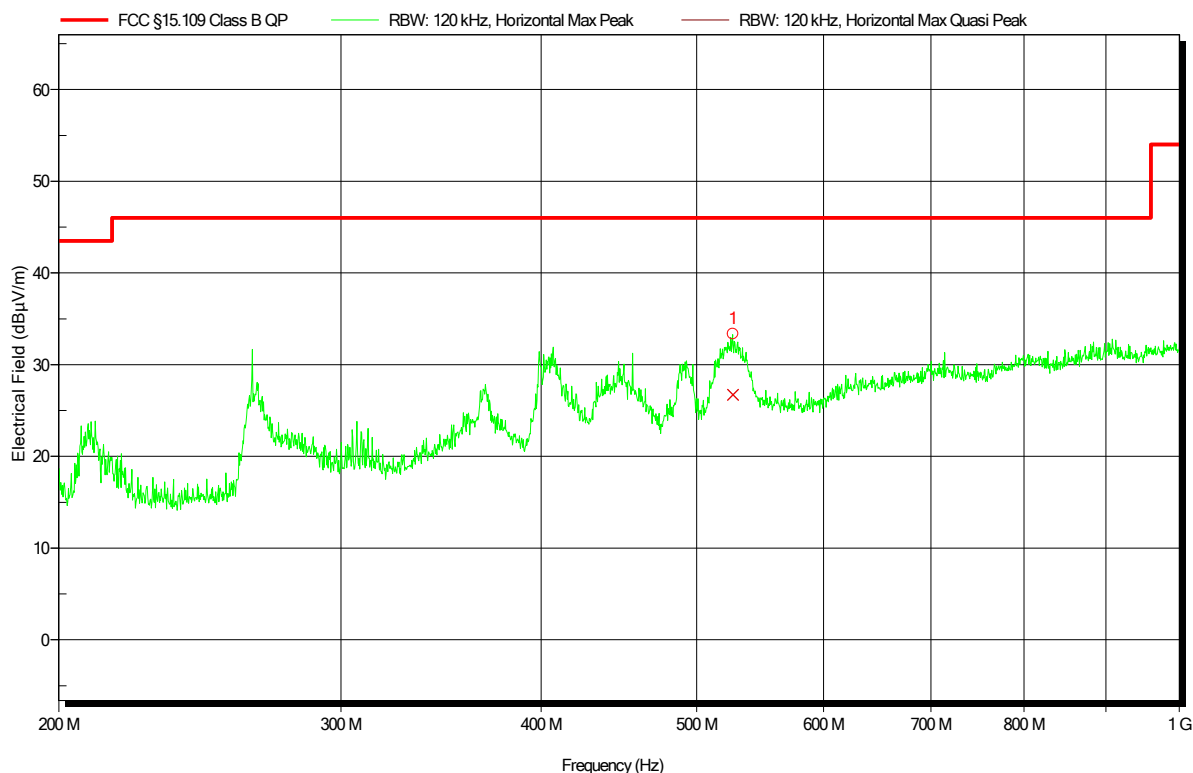
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	96 MHz	23.5 dBµV/m	43.52 dBµV/m	-20.02 dB	Pass	0 Degree	1 m

Radiated emissions according to FCC part 15B

Project number: G0M-1909-8482

Applicant: ACL GmbH
EUT Name: display to be used in the medical/hospital environment
Model: OR-MD® 15
Test Site: Eurofins Product Service GmbH
Operator: Mr. Liebich
Test Conditions: Tnom: 23°C, Unom: 120 V / 60 Hz
Antenna: Rohde & Schwarz HL 223, Horizontal
Measurement distance: 3m
Mode: 1
Test Date: 2019-10-01
Note:

Index 6



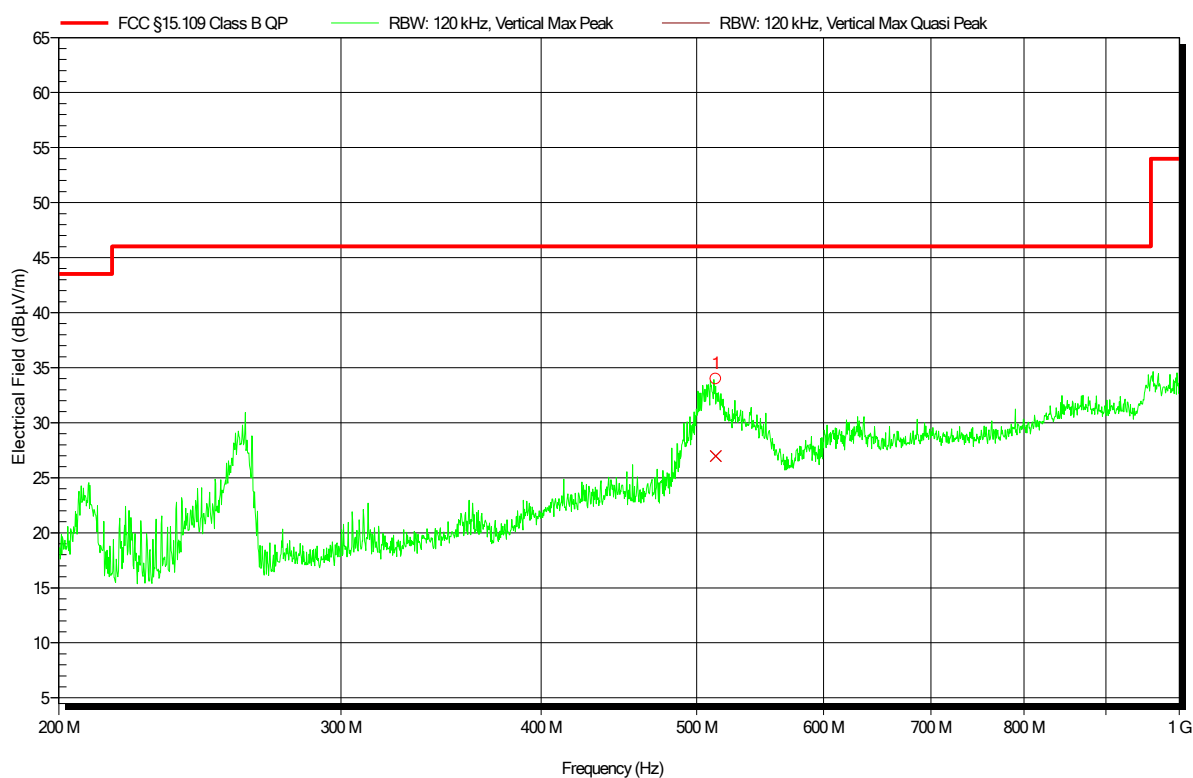
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	526.76 MHz	26.71 dBμV/m	46.02 dBμV/m	-19.31 dB	Pass	0 Degree	1 m

Radiated emissions according to FCC part 15B

Project number: G0M-1909-8482

Applicant: ACL GmbH
 EUT Name: display to be used in the medical/hospital environment
 Model: OR-MD® 15
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Conditions: Tnom: 23°C, Unom: 120 V / 60 Hz
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3m
 Mode: 1
 Test Date: 2019-10-01
 Note:

Index 5



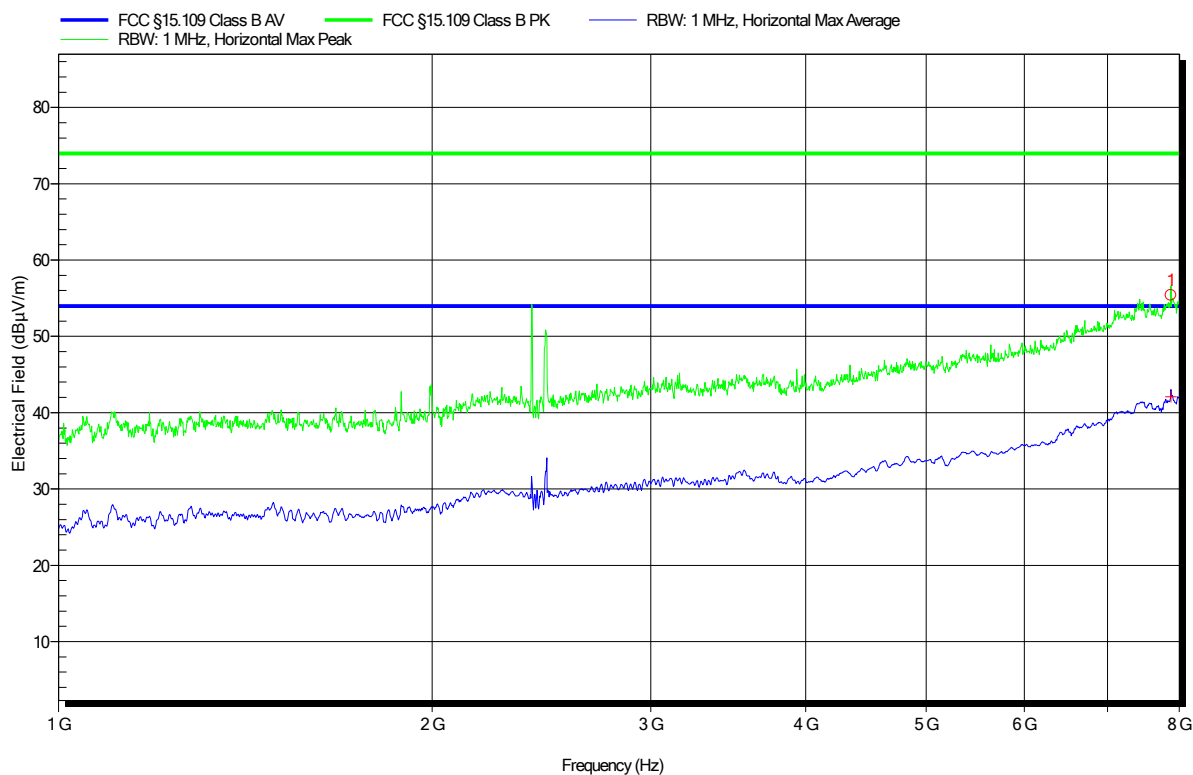
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	513.86 MHz	26.97 dBμV/m	46.02 dBμV/m	-19.05 dB	Pass	0 Degree	1 m

Radiated emissions according to FCC part 15B

Project number: G0M-1909-8482

Applicant: ACL GmbH
EUT Name: display to be used in the medical/hospital environment
Model: OR-MD® 15
Test Site: Eurofins Product Service GmbH
Operator: Mr. Liebich
Test Conditions: Tnom: 23°C, Unom: 120 V / 60 Hz
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 3m
Mode: 1
Test Date: 2019-10-01
Note:

Index 8



Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	7.876 GHz	55.39 dBμV/m	73.98 dBμV/m	-18.59 dB	Pass	0 Degree	1 m

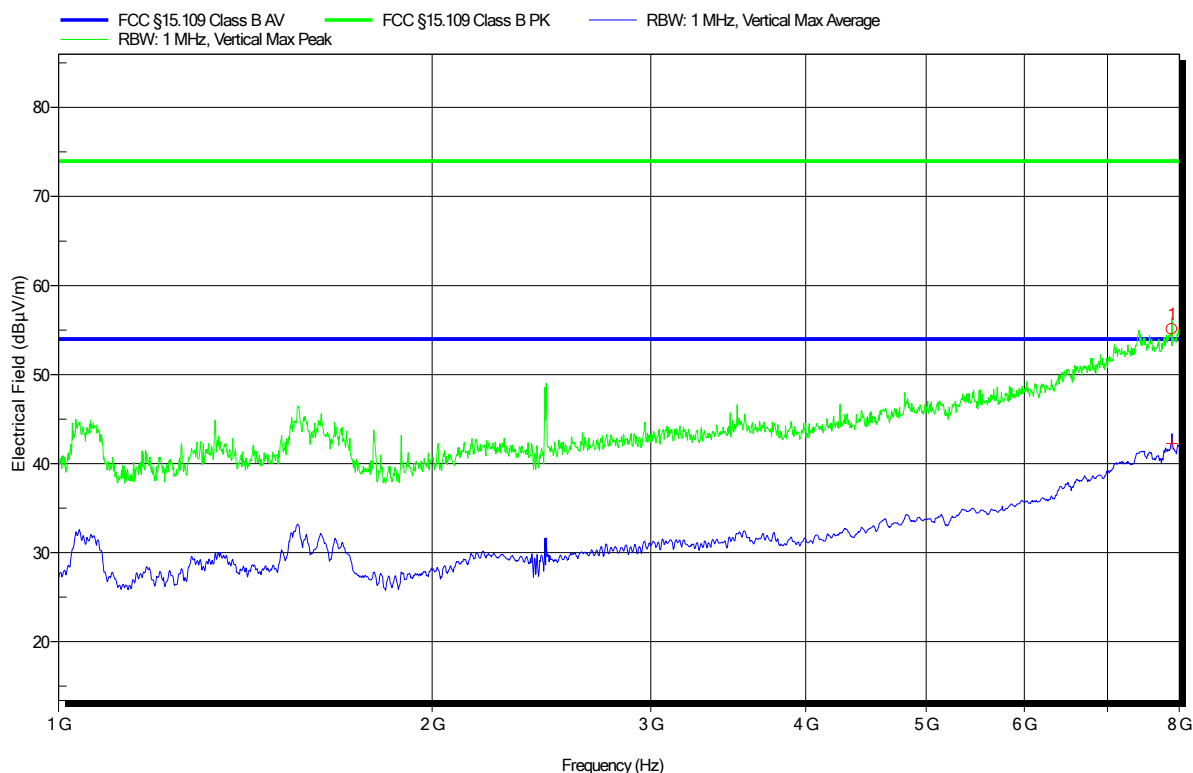
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	Angle	Height
1	7.876 GHz	42.11 dBμV/m	53.98 dBμV/m	-11.87 dB	Pass	0 Degree	1 m

Radiated emissions according to FCC part 15B

Project number: G0M-1909-8482

Applicant: ACL GmbH
 EUT Name: display to be used in the medical/hospital environment
 Model: OR-MD® 15
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Conditions: Tnom: 23°C, Unom: 120 V / 60 Hz
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3m
 Mode: 1
 Test Date: 2019-10-01
 Note:

Index 7

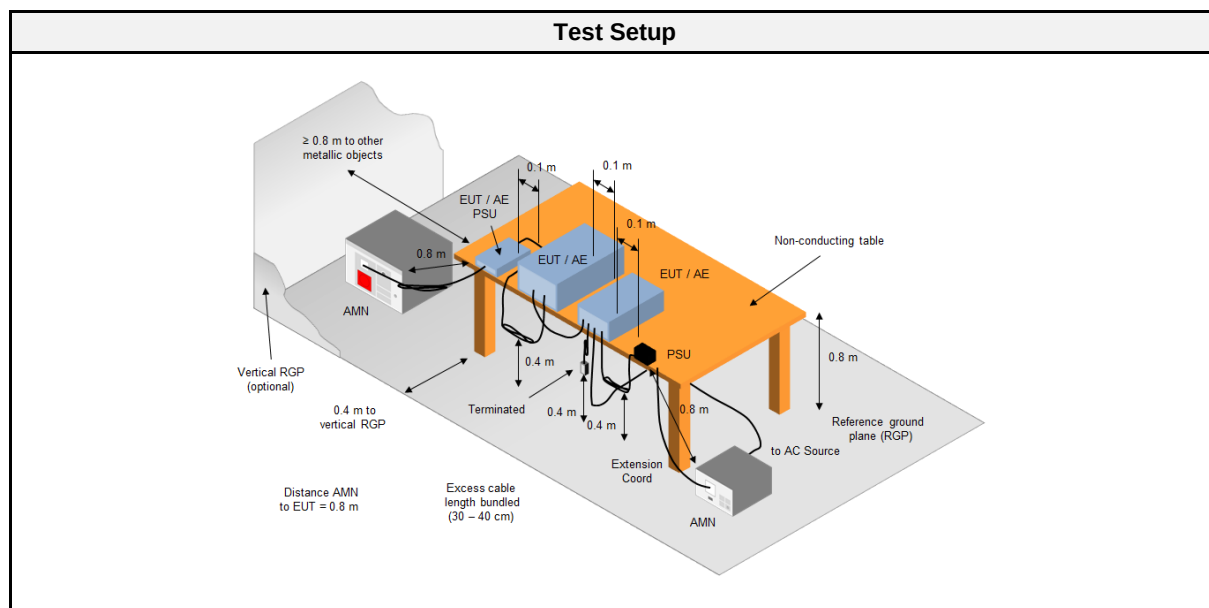


Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	7.89 GHz	55.08 dBµV/m	73.98 dBµV/m	-18.9 dB	Pass	0 Degree	1 m

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	Angle	Height
1	7.89 GHz	42.24 dBµV/m	53.98 dBµV/m	-11.74 dB	Pass	0 Degree	1 m

2.2.1 Information

2.2.2 Setup



2.2.3 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	Radimation	2016.1.10

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	R&S	ESH2-Z5	EF00182	2019-02	2021-02
AMN	R&S	ESH3-Z5	EF00036	2019-07	2021-07
Pulse Limiter	R&S	ESH3-Z2	EF01063	2019-07	2020-07
CDN	MEB Messelektronik Berlin GmbH	M1-801/6	EF01207	2019-07	2020-07
EMI Test Receiver	R&S	ESR 7	EF00943	2019-07	2020-07
Climatic Sensor	Embedded Data Systems, LLC.	2800100000254 17E	EF01054	2019-05	2020-05

2.2.4 Procedure

Exploratory measurement
- The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1) - The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN. - The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length). - The LISN measurement port was connected to a measurement receiver - I/O cables were bundled not longer than 0.4 m - Measurement was performed in the frequency range 0.15 – 30MHz on each current-carrying conductor - To maximize the emissions the cable positions were manipulated - The worst configuration of EUT and cables is shown on a test setup picture at item 1.3

Final measurement
- The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1) - The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN. - The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length). - The LISN measurement port was connected to a measurement receiver - The EUT and cable arrangement were based on the exploratory measurement results - The test data of the worst-case conditions were recorded and shown on the next pages

2.2.5 Limits

Class B		
Frequency [MHz]	Quasi-peak Limit [dBμV]	Average Limit [dBμV]
0.15 - 0.5	66 - 56 *	56 - 46 *
0.5 - 5	56	46
5 - 30	60	50
* Decreases with the logarithm of the frequency		

2.2.6 Results

AC power line conducted emissions					
Port	Coupling	Operational mode	EUT Configuration	Verdict	Remark
POWER	AMN	1	1	PASS	-

2.2.7 Setup Photos



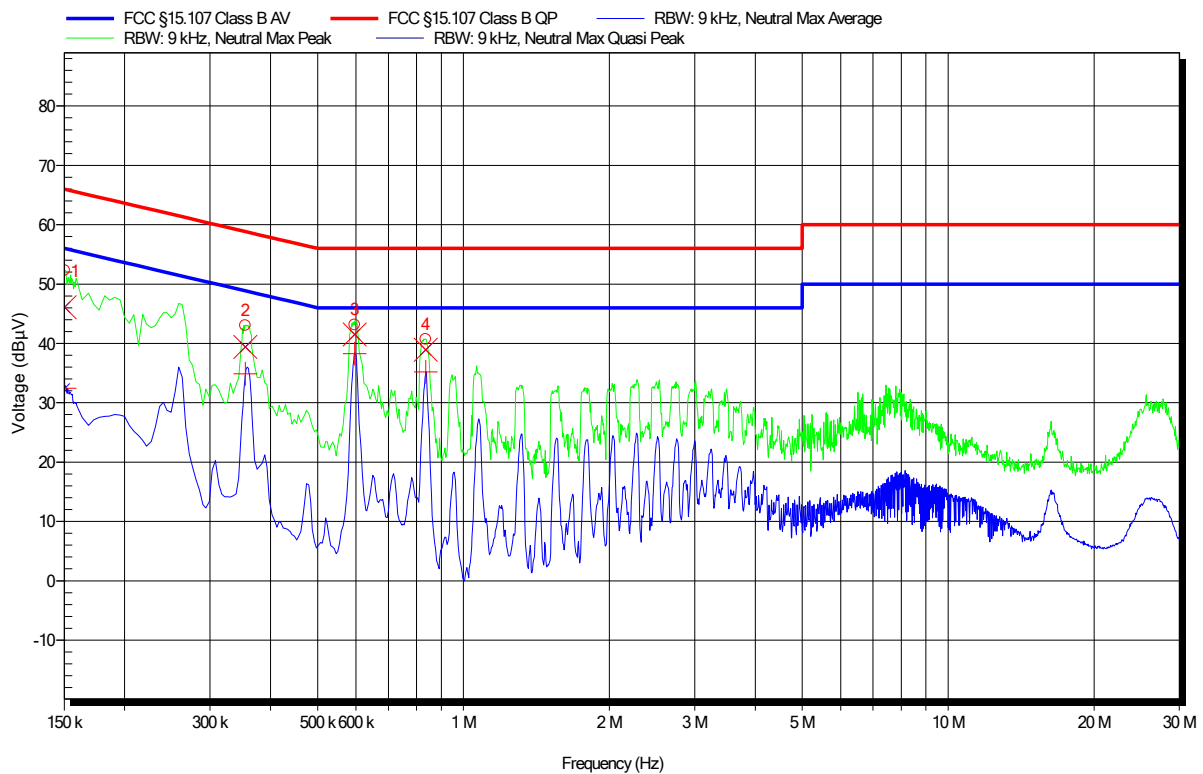
2.2.8 Records

EMI voltage test in the ac-mains according to FCC part 15B

Project number: G0M-1909-8482

Applicant: ACL GmbH
 EUT Name: display to be used in the medical/hospital environment
 Model: OR-MD® 15
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Conditions: Tnom: 22°C, Unom: 120 V / 60 Hz
 LISN: ESH3-Z5 (N)
 Mode: 1
 Test Date: 2019-10-01
 Note:

Index 1



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
1	150.45 kHz	46.1 dBµV	65.98 dBµV	-19.88 dB	Pass
2	354.75 kHz	39.4 dBµV	58.85 dBµV	-19.45 dB	Pass
3	596.4 kHz	41.53 dBµV	56 dBµV	-14.47 dB	Pass
4	836.25 kHz	38.9 dBµV	56 dBµV	-17.1 dB	Pass

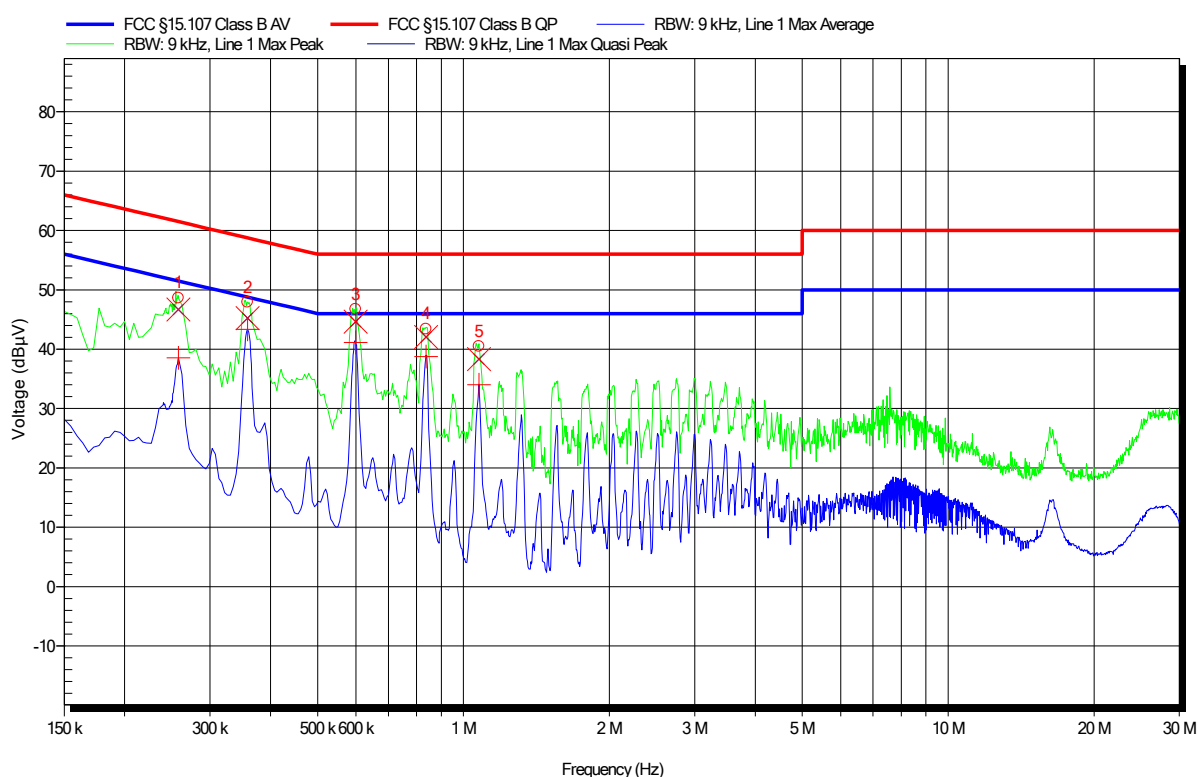
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status
1	150.45 kHz	32.46 dBµV	55.98 dBµV	-23.52 dB	Pass
2	354.75 kHz	34.87 dBµV	48.85 dBµV	-13.98 dB	Pass
3	596.4 kHz	38.26 dBµV	46 dBµV	-7.74 dB	Pass
4	836.25 kHz	35.17 dBµV	46 dBµV	-10.83 dB	Pass

EMI voltage test in the ac-mains according to FCC part 15B

Project number: G0M-1909-8482

Applicant: ACL GmbH
 EUT Name: display to be used in the medical/hospital environment
 Model: OR-MD® 15
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Conditions: Tnom: 22°C, Unom: 120 V / 60 Hz
 LISN: ESH3-Z5 (L)
 Mode: 1
 Test Date: 2019-10-01
 Note:

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Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
1	258 kHz	46.71 dBμV	61.5 dBμV	-14.79 dB	Pass
2	358.35 kHz	45.24 dBμV	58.77 dBμV	-13.53 dB	Pass
3	598.65 kHz	44.64 dBμV	56 dBμV	-11.36 dB	Pass
4	837.15 kHz	42.03 dBμV	56 dBμV	-13.97 dB	Pass
5	1.077 MHz	38.31 dBμV	56 dBμV	-17.69 dB	Pass

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status
1	258 kHz	38.55 dBμV	51.5 dBμV	-12.95 dB	Pass
2	358.35 kHz	43.32 dBμV	48.77 dBμV	-5.45 dB	Pass
3	598.65 kHz	41.12 dBμV	46 dBμV	-4.88 dB	Pass
4	837.15 kHz	38.74 dBμV	46 dBμV	-7.26 dB	Pass
5	1.077 MHz	34.01 dBμV	46 dBμV	-11.99 dB	Pass