EMC TEST REPORT

FCC 47 CFR Part 15B, ISED ICES-003 Issue 7

Report Reference No	G0M-2102-9617-EF0115B-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	A2LA - Registration number: 1983.01 (ISED) ISED wireless device testing laboratory: CN 3470A DAkkS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	SKAN Deutschland GmbH
Address	Nickrischer Straße 2 02827 Görlitz/Hagenwerder GERMANY
Test Specification Standard(s)	47 CFR Part 15 Subpart B ISED ICES-003 Issue 7 ANSI C63.4:2014+A1:2017
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	Glove Tester
Model(s)	WirelessGT 2
Additional Model(s)	None
Brand Name(s)	SKAN wGT
Hardware Version(s)	WirelessGT Evo 2
Software Version(s)	v2.0.0
FCC-ID	2AXZXSKANWGT2XD
IC	26652-SKANWGT02
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	2021-03-10	
Report:		
Compiled by	Stephan Liebich	
Tested by (+ signature) (Responsible for Test)	Stephan Liebich	
Approved by (+ signature) (Test Lab Technician)	Matthias Handrik	
Date of Issue	2021-11-10	
Total number of pages	46	
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:

Additional variants have been declared by the manufacturer. The listed models were not tested, evaluated or assessed in no way.

Additional Model 1	Product Type Description	Glove Tester
	Model Name	SKAN Evolution 2
	Brand Name (optional)	SKAN wGT
	Hardware Version	WirelessGT Evo 2
	Software Version	V2.0.0
Additional Model 2	Product Type Description	Glove Tester
	Model Name	SKAN Evo 2
	Brand Name (optional)	SKAN wGT
	Hardware Version	WirelessGT Evo 2
	Software Version	V2.0.0
Additional Model 3	Product Type Description	Glove Tester
	Model Name	SKAN Globe
	Brand Name (optional)	SKAN wGT
	Hardware Version	WirelessGT Evo 2
	Software Version	V2.0.0

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	2021-11-10	Initial Release	-

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1 Equipment (Test Item) Under Test

Description	Glove Tester The device is suitable for periodic/routinely testing of the physical integrity of glove-sleeve (gauntlet) combinations of isolator systems.	
Model	WirelessGT 2	
Additional Model(s)	None	
Brand Name(s)	SKAN wGT	
Serial Number(s)	30029475.012	
Sample-ID	33684	
Hardware Version(s)	WirelessGT Evo 2	
Software Version(s)	v2.0.0	
EUT Dimensions [cm]	diameter approx. 31; height approx. 21	
FCC-ID	2AXZXSKANWGT2XD	
IC	26652-SKANWGT02	
Class	Class A	
Equipment type	Table top	
Highest internal frequency [MHz]	3.68 (MCU) 48.00 (radio module) 2480 (ZigBee)	
Radio Module 1	Type	ZigBee module
	Model	deRFsamR21E-23S20
	Manufacturer	dresden elektronik ingenieurtechnik GmbH
	FCC-ID	XVV-23SXX
	IC	unspecified
Radio Module 2	Type	RFID module
	Model	T4NM-FDC0
	Manufacturer	ELATEC GmbH
	FCC-ID	unspecified
	IC	unspecified
Supply Voltage	V_{NOM}	15 V DC by internal rechargeable Lithium battery 24 V DC by dedicated AC/DC-Adaptor
AC/DC-Adaptor	Model	GST90A24-P1M
	Vendor	MEAN WELL
	Input	100 – 240 VAC, 50/60 Hz
	Output	24 V DC
Manufacturer	SKAN Deutschland GmbH Nickrischer Straße 2 02827 Görlitz/Hagenwerder GERMANY	

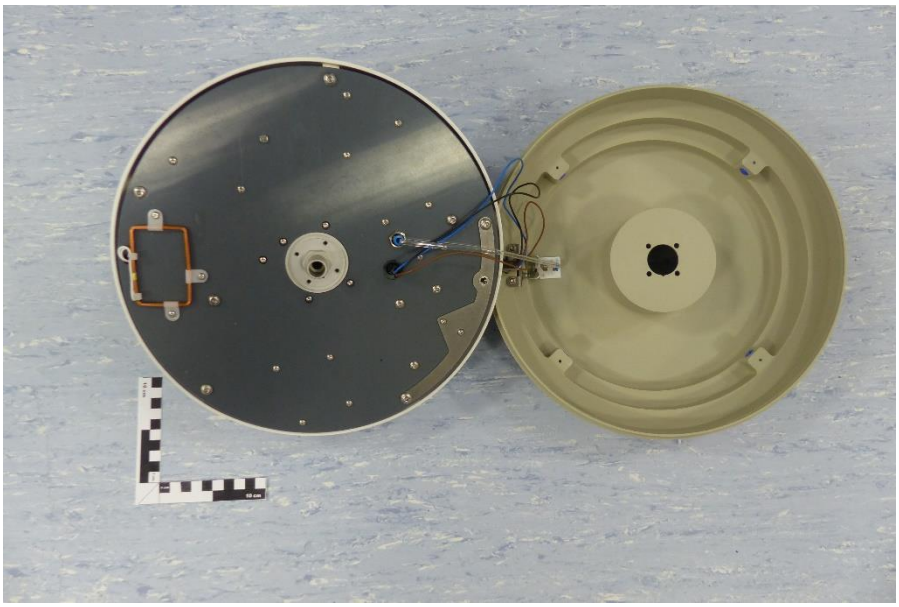
1.1 Equipment Ports

Name	Type	Attributes		Comment
AC Mains	AC	Count: Direction: Service only:	1 In No	--

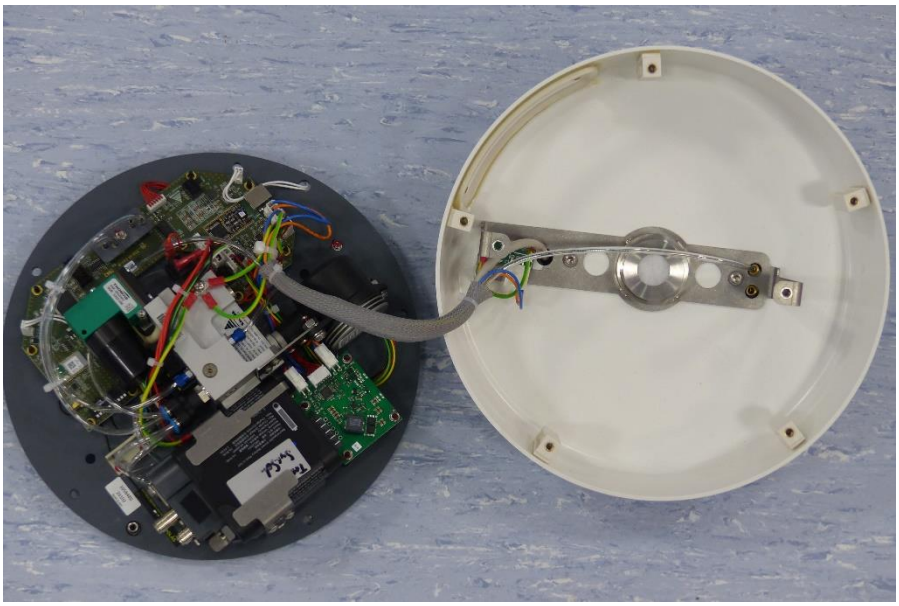
Description:	
AC	AC mains power input/output port
DC	DC power input/output port
BAT	DC power input port connected to external battery
IO	Input/Output port
TP	Telecommunication port
NE	Non-electrical port

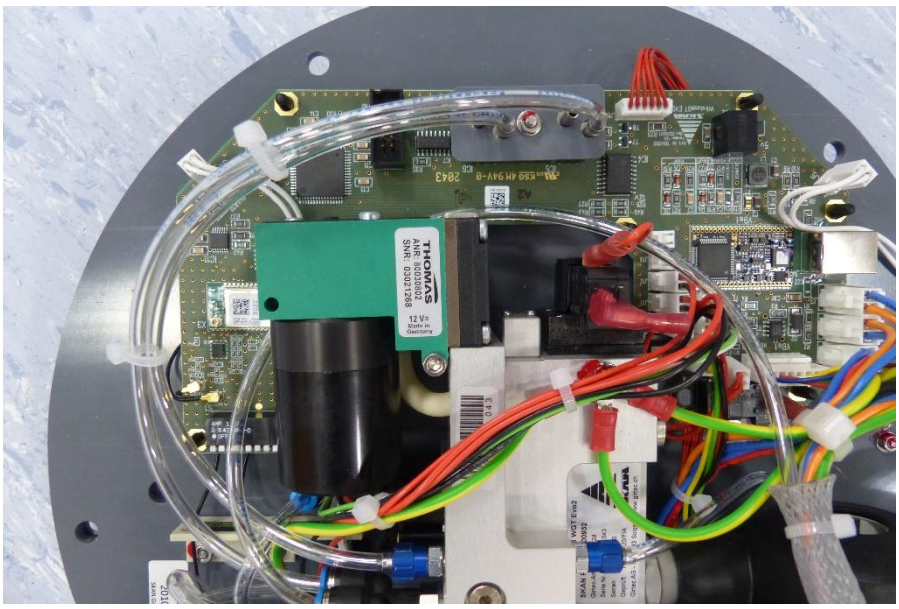
1.2 Equipment Photos - Internal

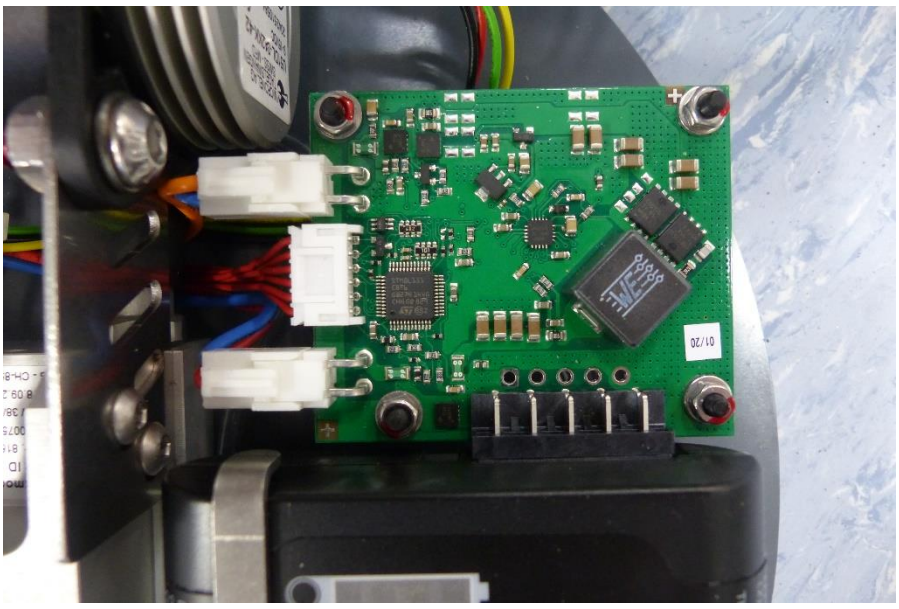
EUT INSIDE I



EUT INSIDE II



EUT PCB I TOP SIDE


EUT PCB II TOP SIDE


1.3 Equipment Photos - External

EUT WITH AC/DC-ADAPTOR IN PERSPECTIVE

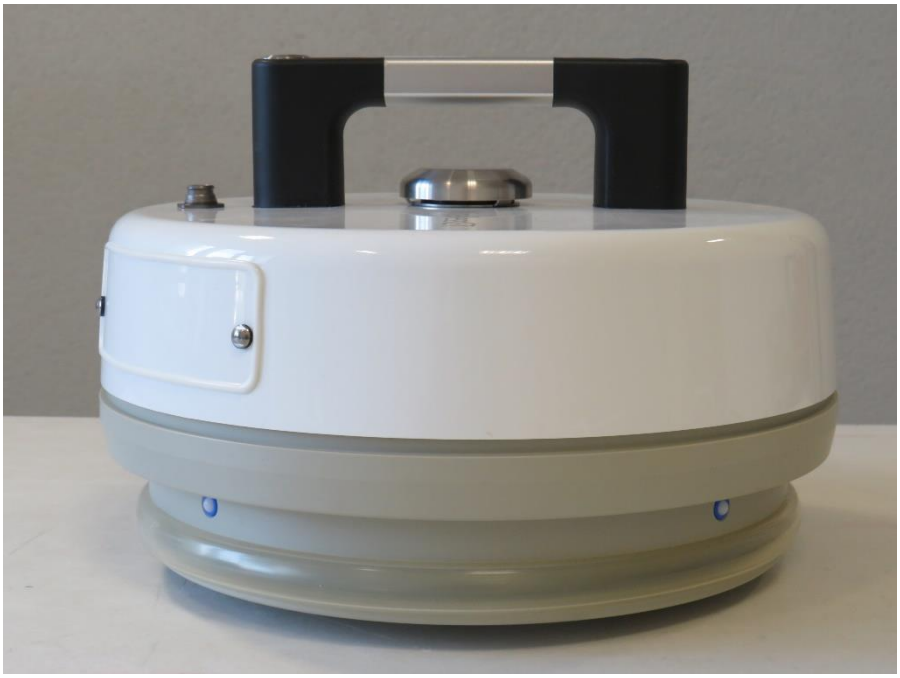
EUT IN PERSPECTIVE I

EUT IN PERSPECTIVE II

EUT TOP SIDE

EUT FRONT SIDE

EUT LEFT SIDE

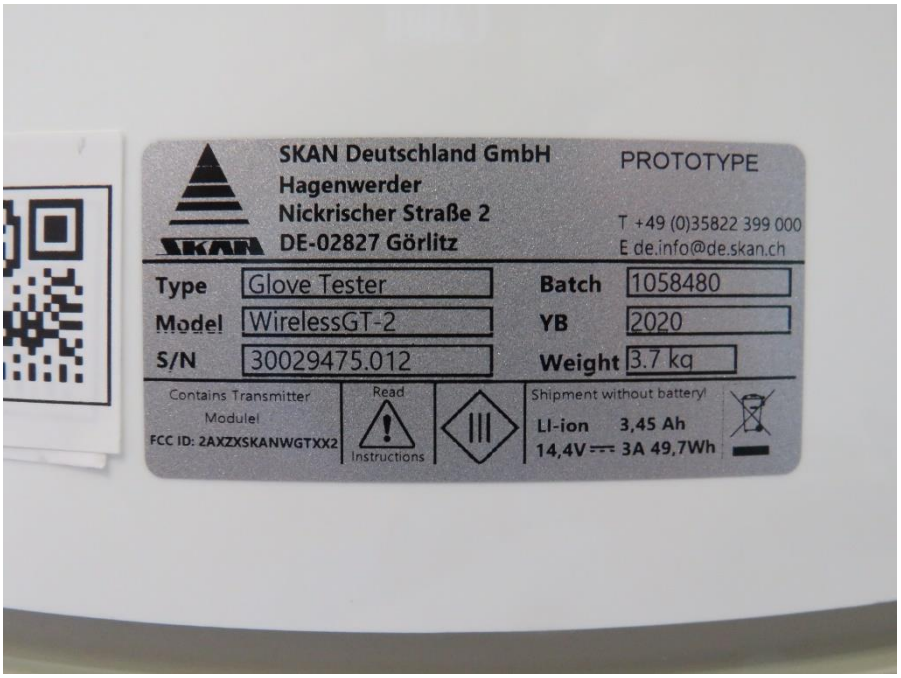


EUT REAR SIDE

EUT RIGHT SIDE

EUT BOTTOM SIDE

EUT LABEL



AC/DC-ADAPTOR LABEL

AC/DC-ADAPTOR CONNECTORS

1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	ZigBee coordinator	Dresden elektronik	CONBEE II	Customer Support Equipment
AE	RFID Tag	SKAN Deutschland GmbH	--	Customer Support Equipment
AE	Laptop	Lenovo	ThinkPad T420S	Customer Support Equipment
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
MON	Monitoring Equipment			
CBL	Connecting Cable			
Comment: --				

1.5 Operational Modes

Mode #	Description
1	Operating mode inflation of seal (mini compressor operation) and Operating mode inflation of glove (turbine operation) at alternating intervals. Communication with Sensors and battery pack active (internal I2C bus); RFID Reader active (searching for RFID Tag) with 125kHz; ZigBee communication via Laptop coordinator Stick (USB) active.
2	Battery Charging (EUT is in standby)
Comment: --	

1.6 EUT Configuration

Configuration #	Description
1	EUT powered by internal rechargeable Lithium battery. RFID Tag on EUT. Usage of Software WirelessGT 2.0.0 for EUT monitoring and control.
2	EUT powered by dedicated AC/DC-Adaptor. AC/DC-Adaptor is powered by external laboratory power supply unit.
Comment: --	

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:

Reading on Analyser (dBµV) + A.F. (dB/m) = Net field strength (dBµV/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:

Limit (dBµV/m) = 20*log (µV/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 7				
Reference	**Requirement**	**Reference Method**	**Result**	**Remarks**
Emission				
FCC 15.109 ICES-003, 3.2.2	Radiated emissions	ANSI C63.4:2014 +A1:2017	PASS	--
FCC 15.107 ICES-003, 3.2.1	AC power line conducted emissions	ANSI C63.4:2014 +A1:2017	PASS	--
Comment:				

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

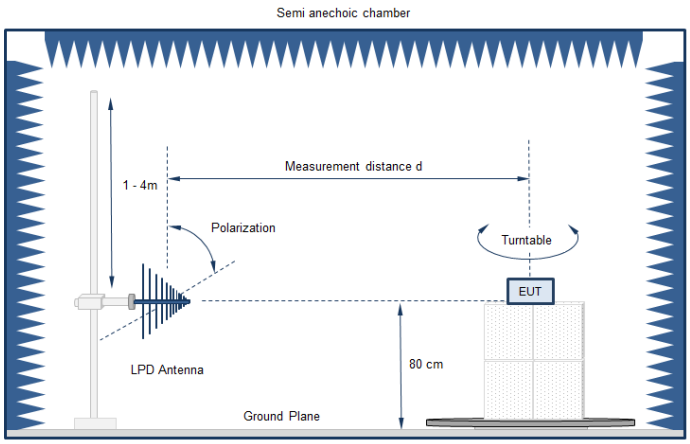
2.1 Test Conditions and Results - Radiated emissions acc. to ANSI C63.4

2.1.1 Information

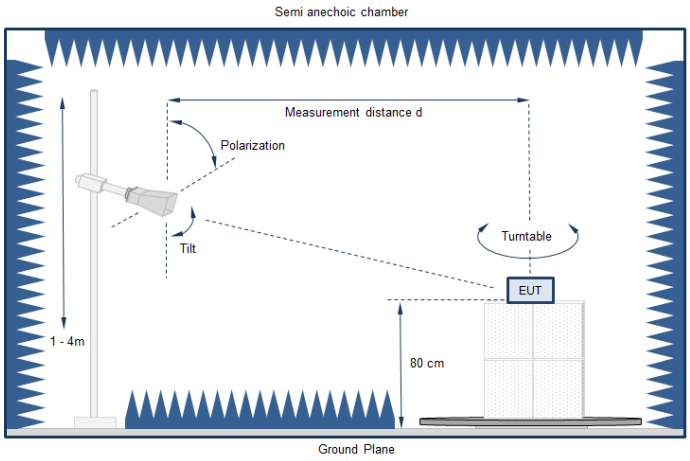
Test Information	
Reference	FCC 15.109, ICES-003, 3.2.2
Reference method	ANSI C63.4:2014+A1:2017 Section 8
Equipment class	Class B
Equipment type	Table top
Highest internal frequency [MHz]	2483.5
Measurement range	30 MHz to 13000 MHz
Temperature [°C]	20 – 23
Humidity [%]	43 – 47
Operator	Stephan Liebich
Date	2021-06-11

2.1.2 Setup

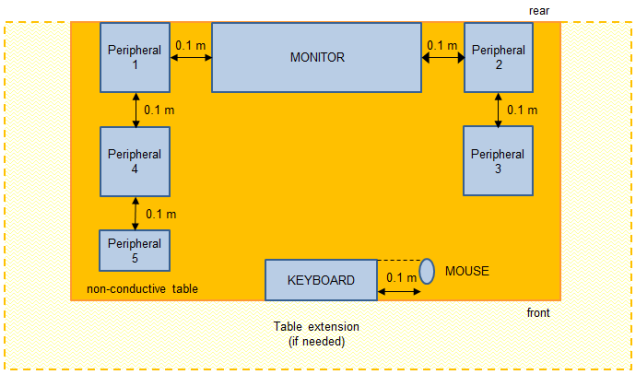
Measurement up to 1 GHz



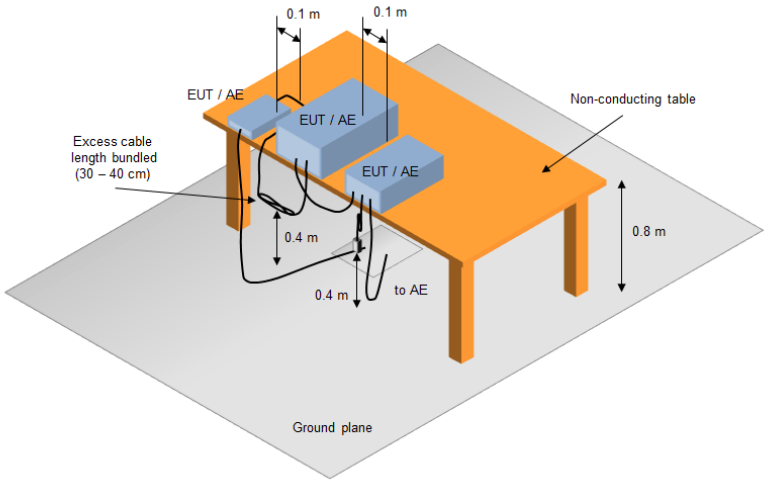
Measurement above 1 GHz



Equipment placement - Table top



Test Setup



2.1.3 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	Radimation	2020.1.8

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic chamber	Frankonia	AC1	EF00062	2021-02	2024-02
EMI Test Receiver	Keysight	N9038A-526/WXP	EF01070	2020-06	2021-06
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	BBHA9120D	EF00018	2019-10	2022-10
Programmable AC Source	Chroma ATE Inc.	61604	EF01068	20210-07	2021-07
Climatic Sensor	Embedded Data Systems, LLC.	2800100000254 17E	EF01054	2021-03	2022-03

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 2.1.2

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 Average	74 54

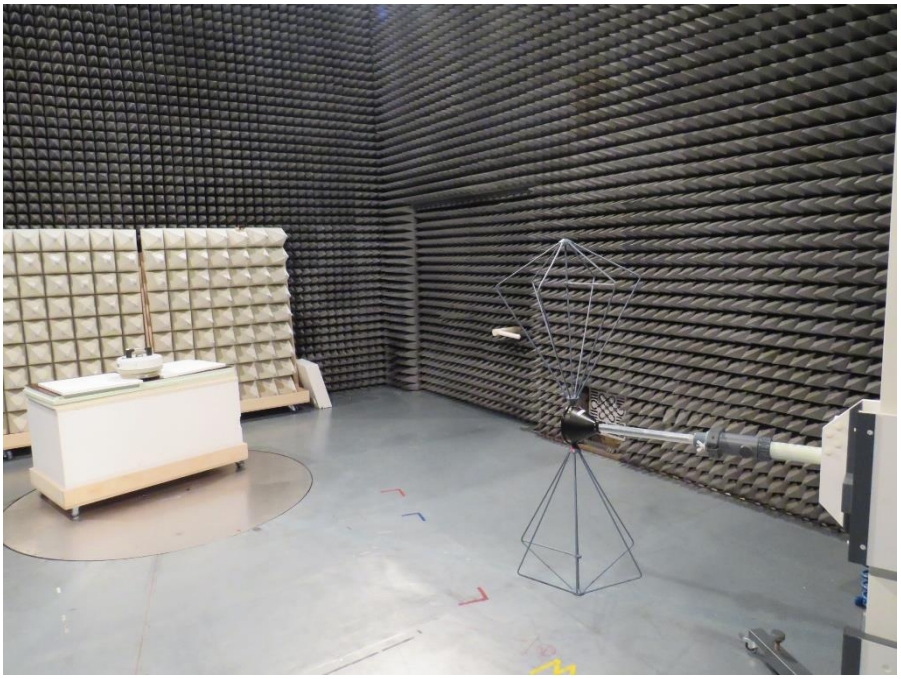
Class A @ 10 m		
Frequency [MHz]	Detector	Limit [dBµV/m]
30 - 88	Quasi-peak	39
88 - 216	Quasi-peak	43.5
216 - 960	Quasi-peak	46.5
960 - 1000	Quasi-peak	49.5
> 1000	Peak Average	69.5 49.5

2.1.6 Results

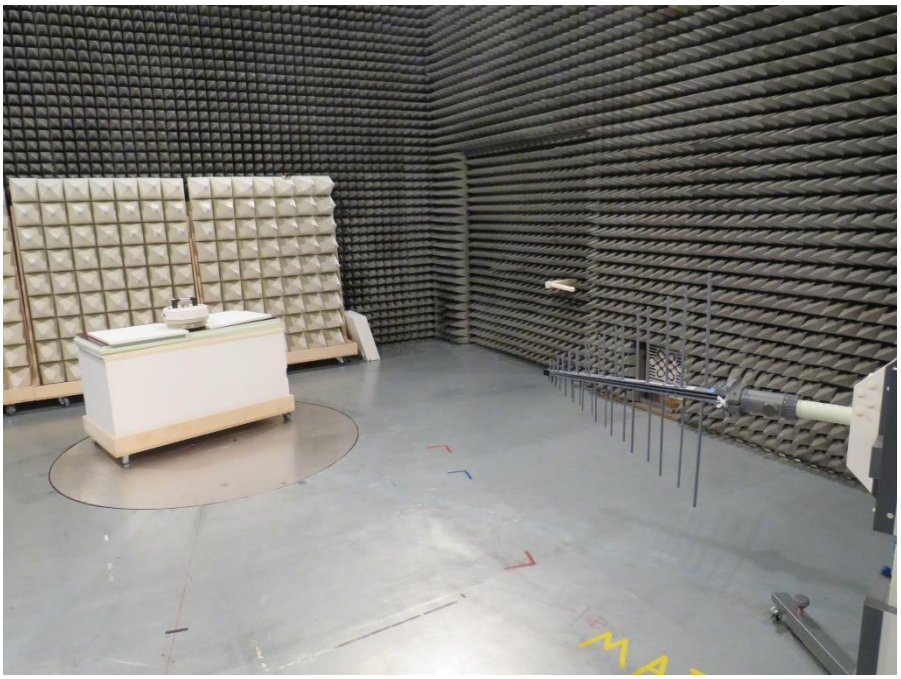
Test Results			
Operational mode	EUT Configuration	Verdict	Remark
1	1	PASS	--
2	2	PASS	--

2.1.7 Setup Photos

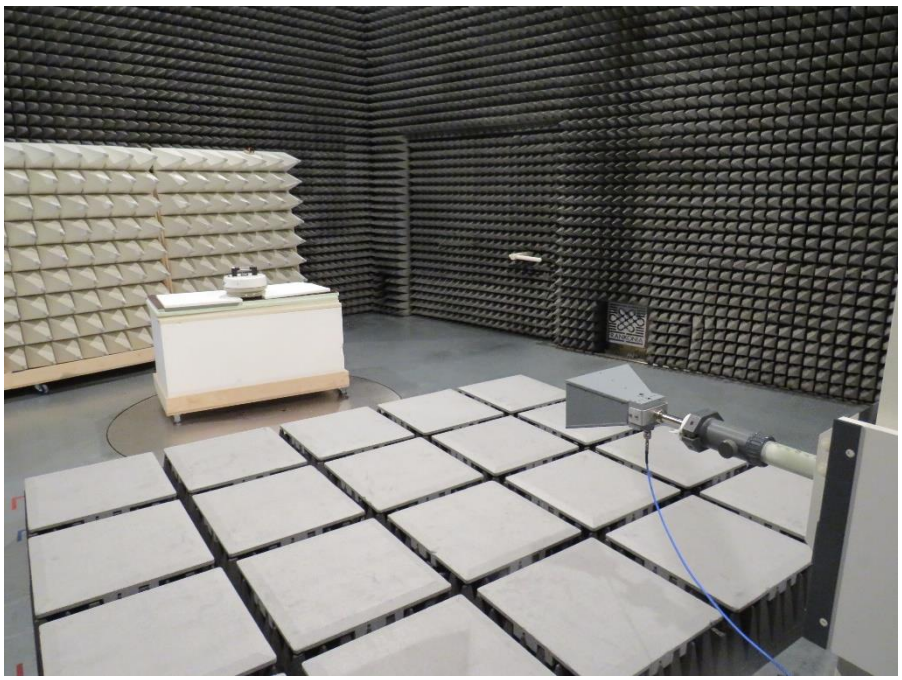
RADIATED EMISSION - 30 MHz to 200 MHz - EUT CONFIGURATION 1



RADIATED EMISSION - 200 MHz to 1 GHz - EUT CONFIGURATION 1

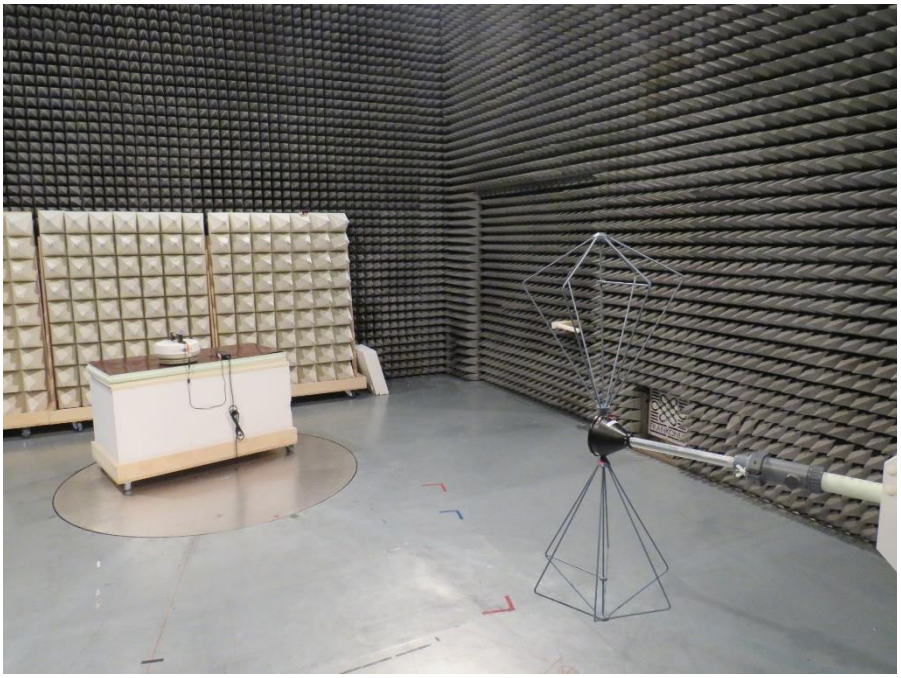


RADIATED EMISSION - 1 GHz to 13 GHz - EUT CONFIGURATION 1

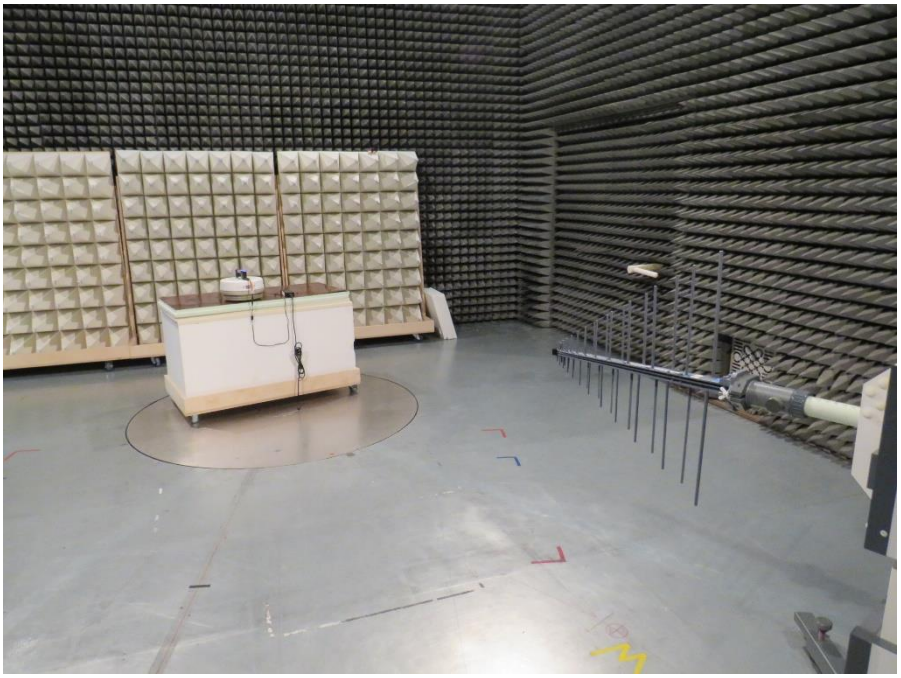


RADIATED EMISSION - FOCUS - EUT CONFIGURATION 1

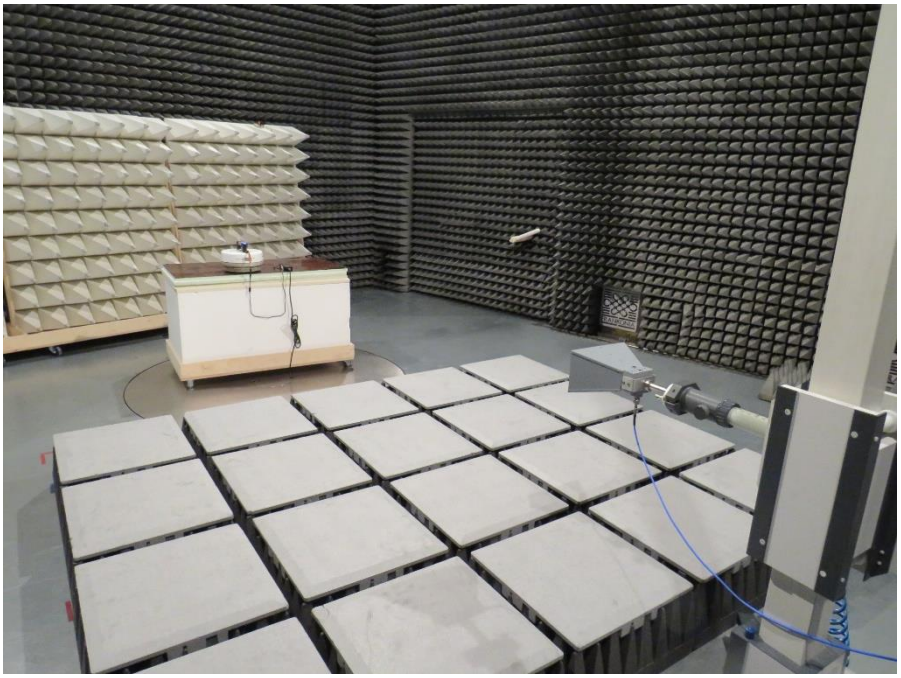
RADIATED EMISSION - 30 MHz to 200 MHz - EUT CONFIGURATION 2



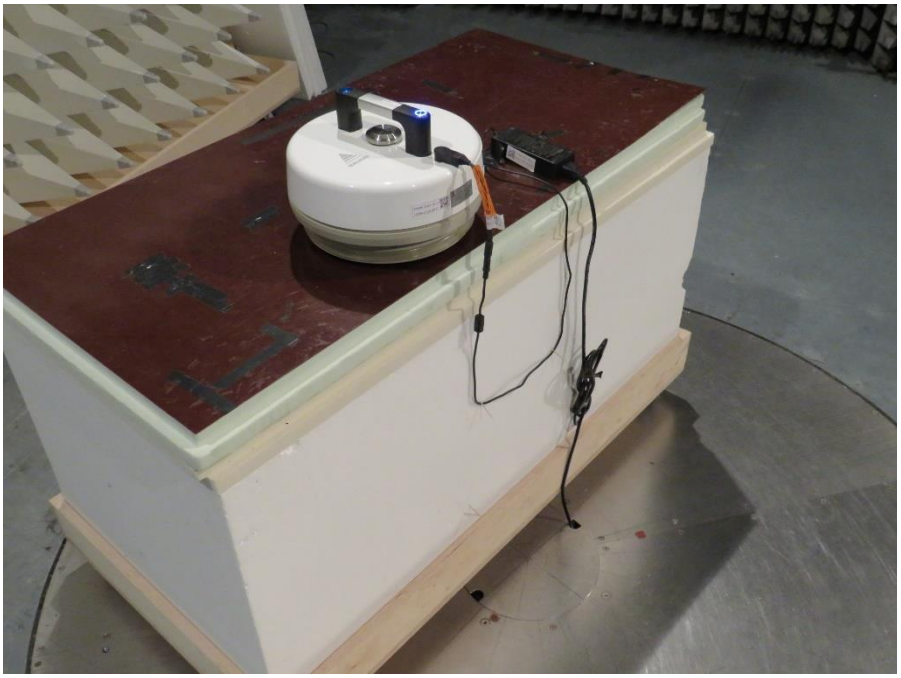
RADIATED EMISSION - 200 MHz to 1 GHz - EUT CONFIGURATION 2



RADIATED EMISSION - 1 GHz to 13 GHz - EUT CONFIGURATION 2



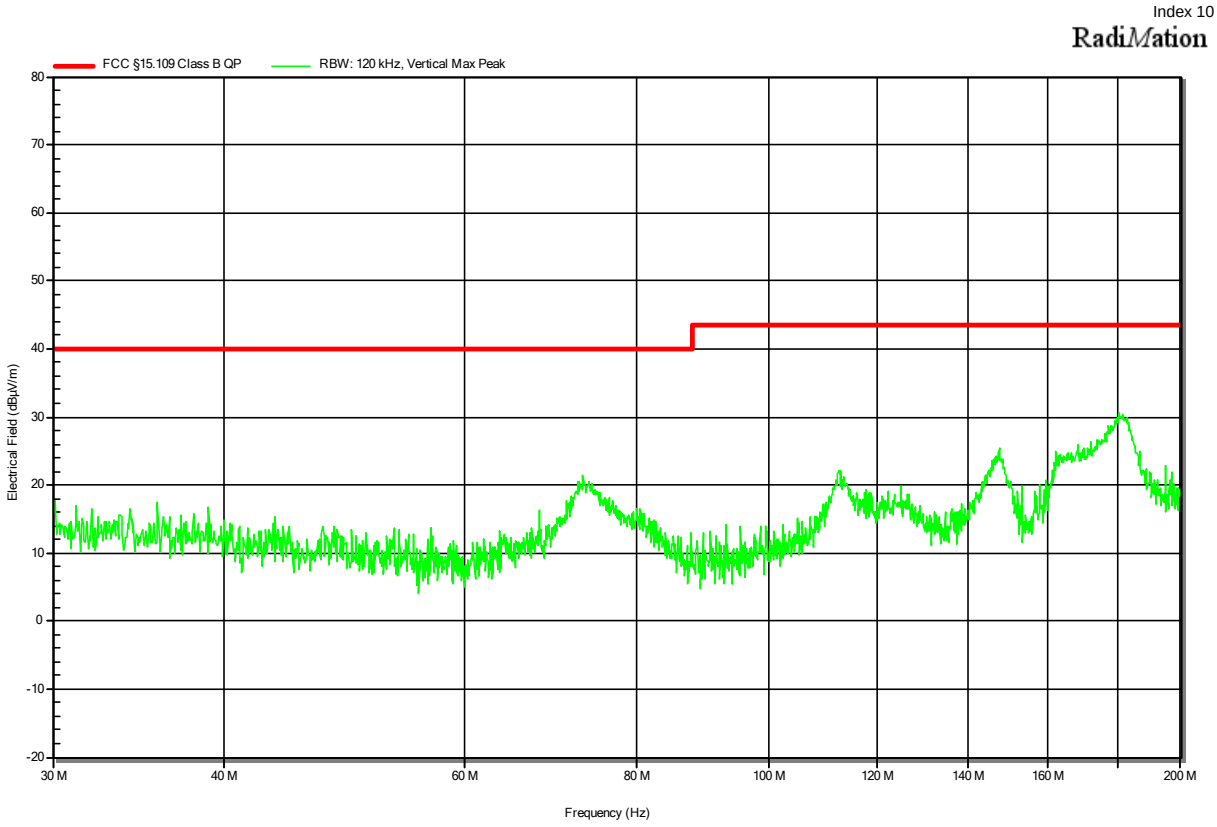
RADIATED EMISSION - FOCUS - EUT CONFIGURATION 2



2.1.8 Records

Radiated emissions
according to FCC part 15B

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33684
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2021-06-11
Operating Conditions:	ambient temperature: 22 °Celsius power input: 24 V DC by internal rechargeable Lithium battery
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement Distance:	3m
Operational Mode & EUT Configuration:	Mode 1 Configuration 1
Note 1:	--



Radiated emissions
according to FCC part 15B

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Operator:	Mr. Liebich
Test Date:	2021-06-11
Operating Conditions:	ambient temperature: 22 °Celsius power input: 24 V DC by internal rechargeable Lithium battery
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement Distance:	3m
Operational Mode & EUT Configuration:	Mode 1 Configuration 1
Note 1:	--

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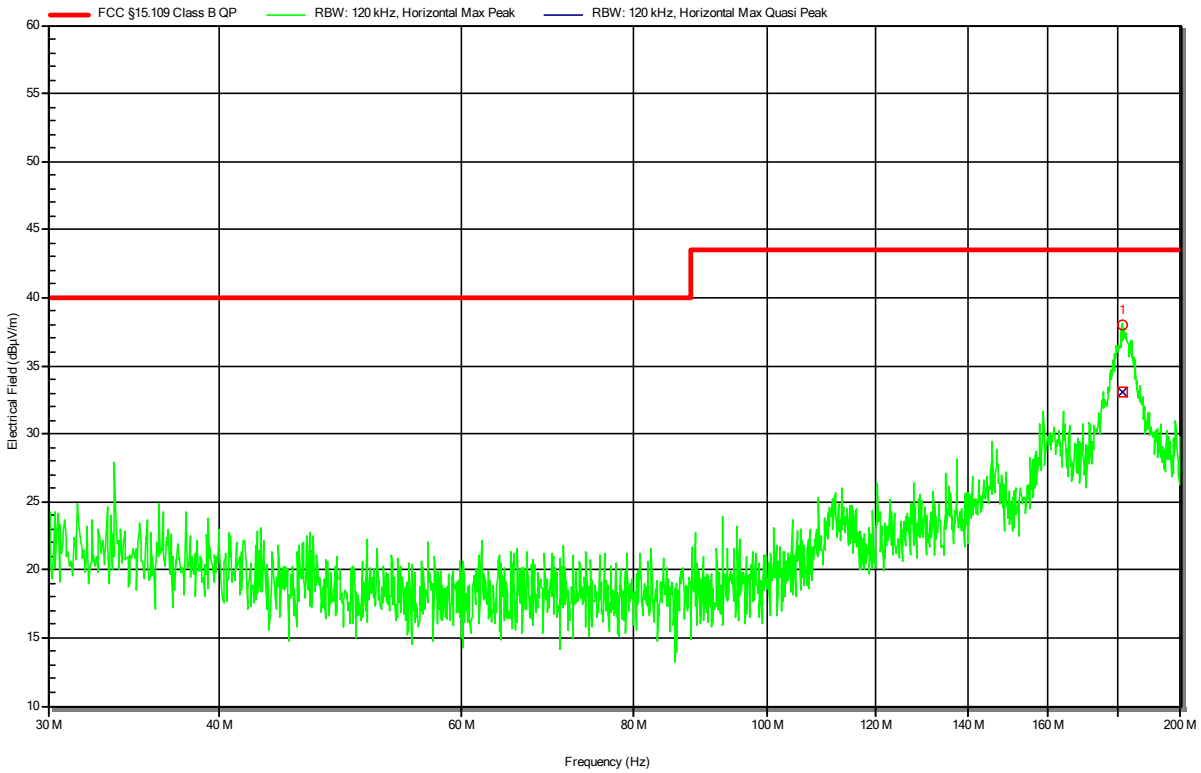
RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	181.205 MHz	33.05 dBµV/m	43.52 dBµV/m	-10.47 dB	Pass	100 degrees	1 m

Radiated emissions
according to FCC part 15B

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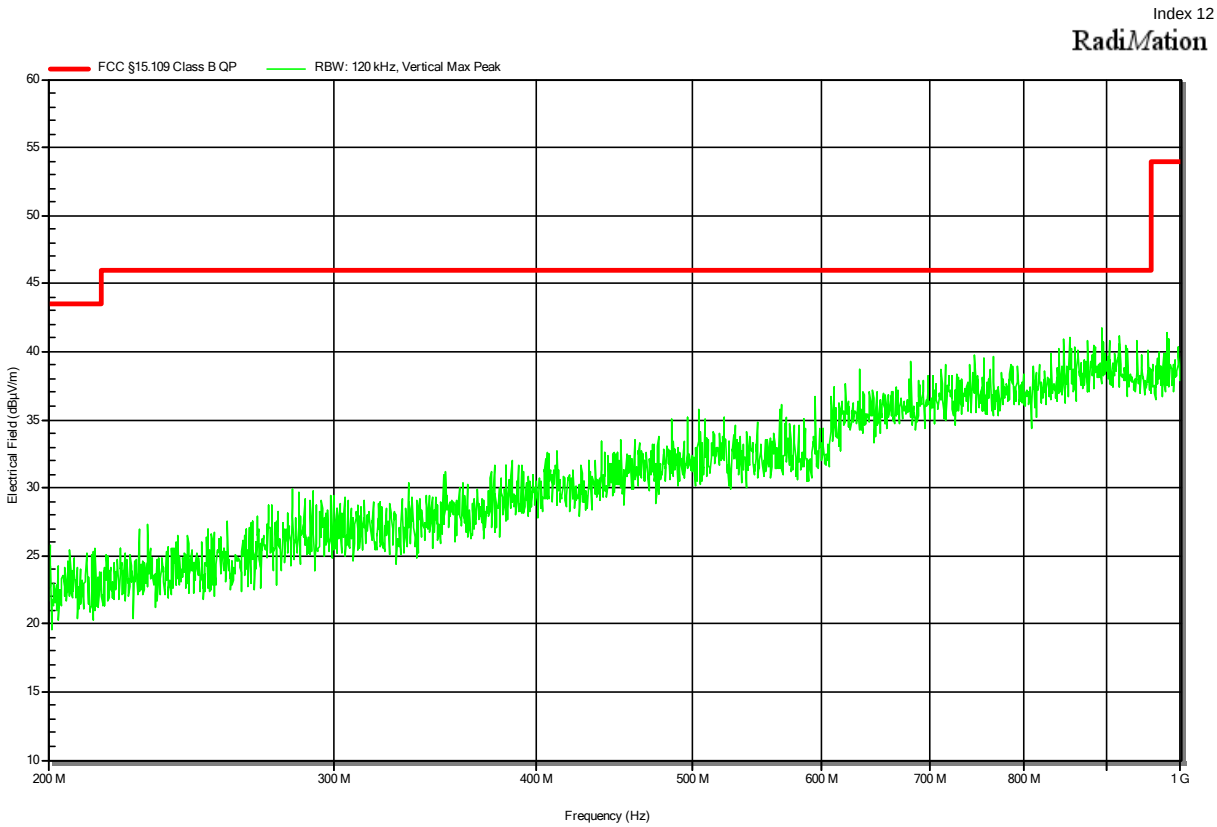
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33684
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2021-06-11
Operating Conditions:	ambient temperature: 22 °Celsius power input: 24 V DC by internal rechargeable Lithium battery
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement Distance:	3m
Operational Mode & EUT Configuration:	Mode 1 Configuration 1
Note 1:	--



Radiated emissions
according to FCC part 15B

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33684
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2021-06-11
Operating Conditions:	ambient temperature: 22 °Celsius power input: 24 V DC by internal rechargeable Lithium battery
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement Distance:	3m
Operational Mode & EUT Configuration:	Mode 1 Configuration 1
Note 1:	--

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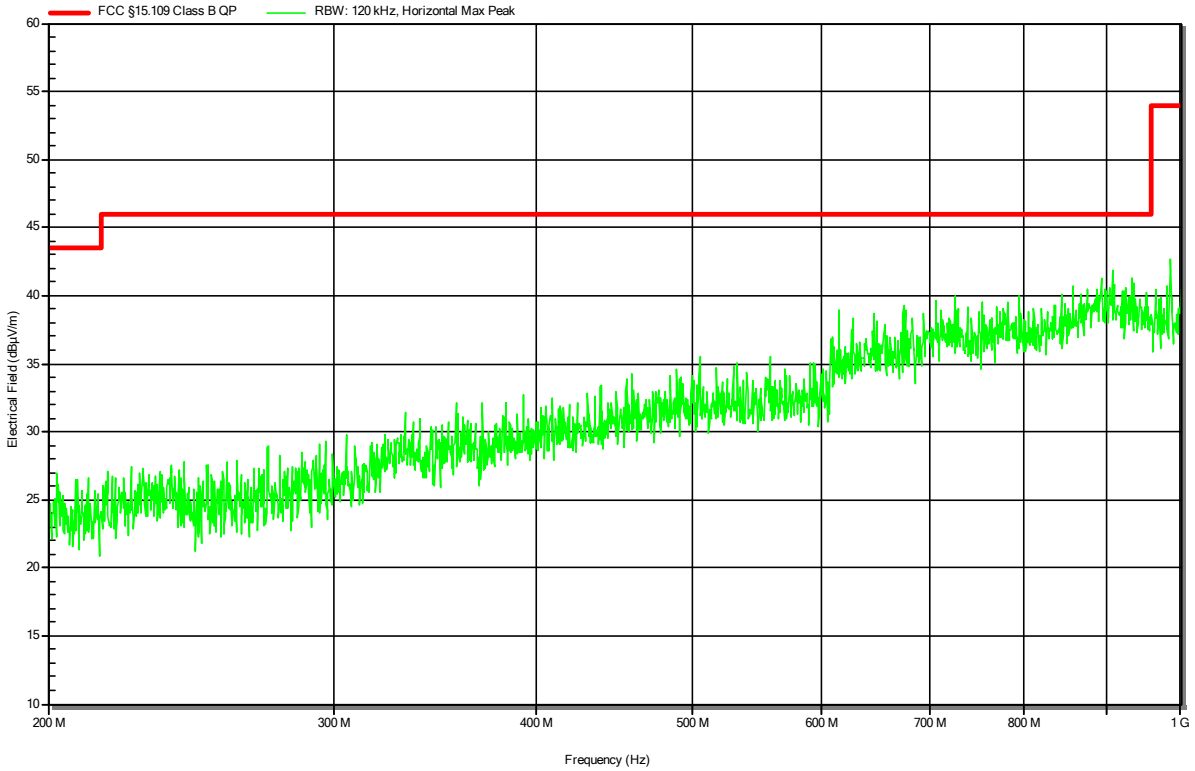
RadiMation



Radiated emissions
according to FCC part 15B

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33684
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2021-06-11
Operating Conditions:	ambient temperature: 22 °Celsius power input: 24 V DC by internal rechargeable Lithium battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement Distance:	3m
Operational Mode & EUT Configuration:	Mode 1 Configuration 1
Note 1:	--

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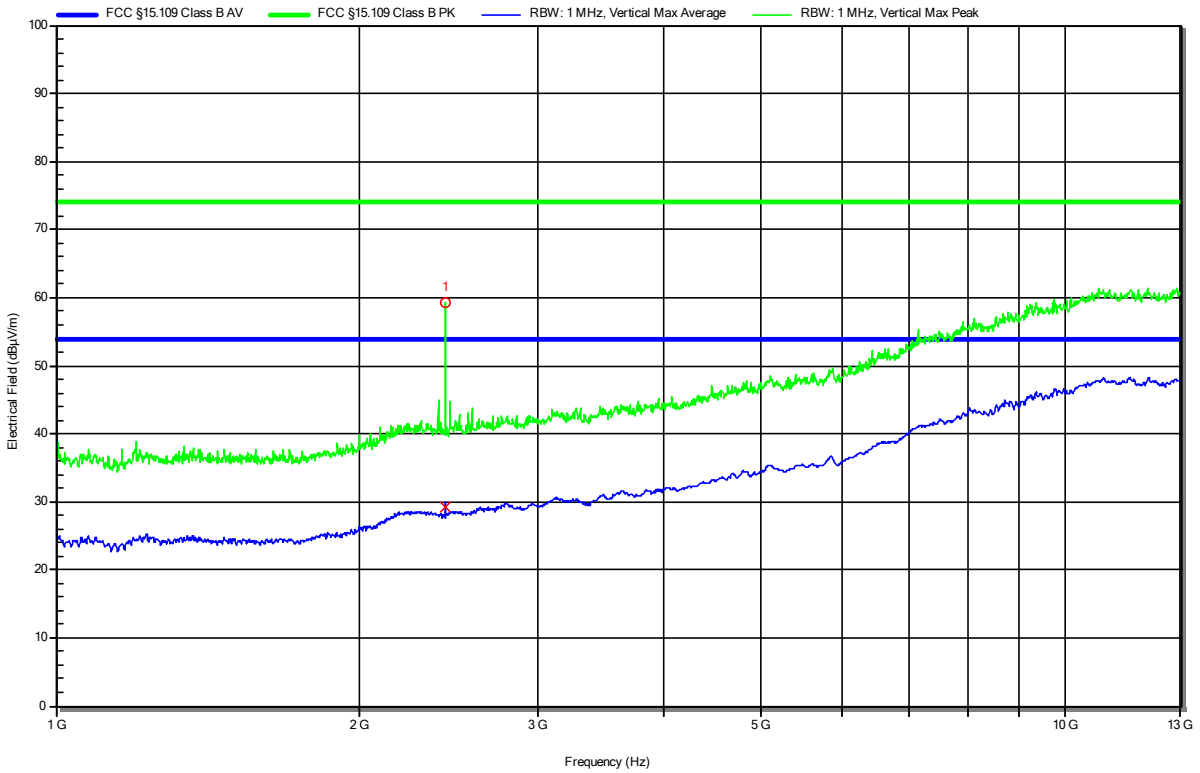
RadiMation



Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	2.433 GHz	ZigBee-Carrier					

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	Angle	Height
1	2.433 GHz	ZigBee-Carrier					

Radiated emissions
according to FCC part 15B

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33684
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2021-06-11
Operating Conditions:	ambient temperature: 22 °Celsius power input: 24 V DC by internal rechargeable Lithium battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement Distance:	3m
Operational Mode & EUT Configuration:	Mode 1 Configuration 1
Note 1:	--

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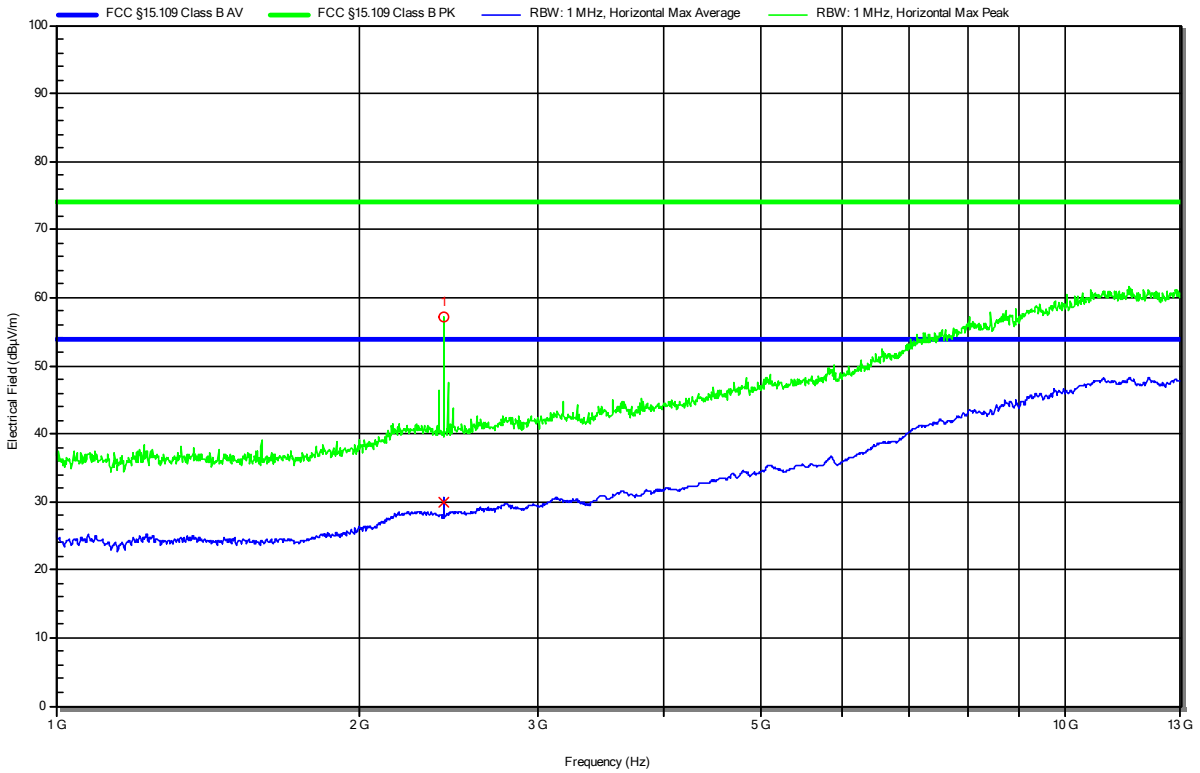
RadiMation

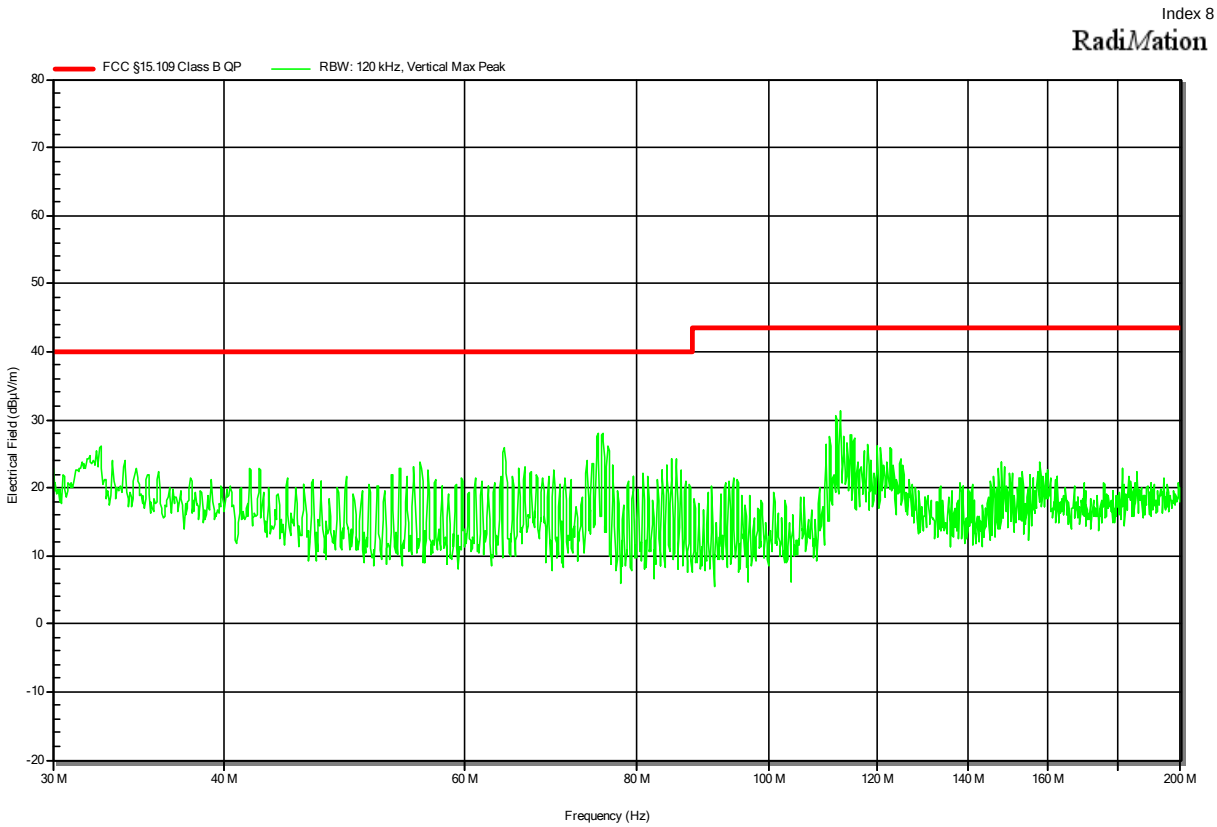


Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	2.418 GHz	ZigBee-Carrier					

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	Angle	Height
1	2.418 GHz	ZigBee-Carrier					

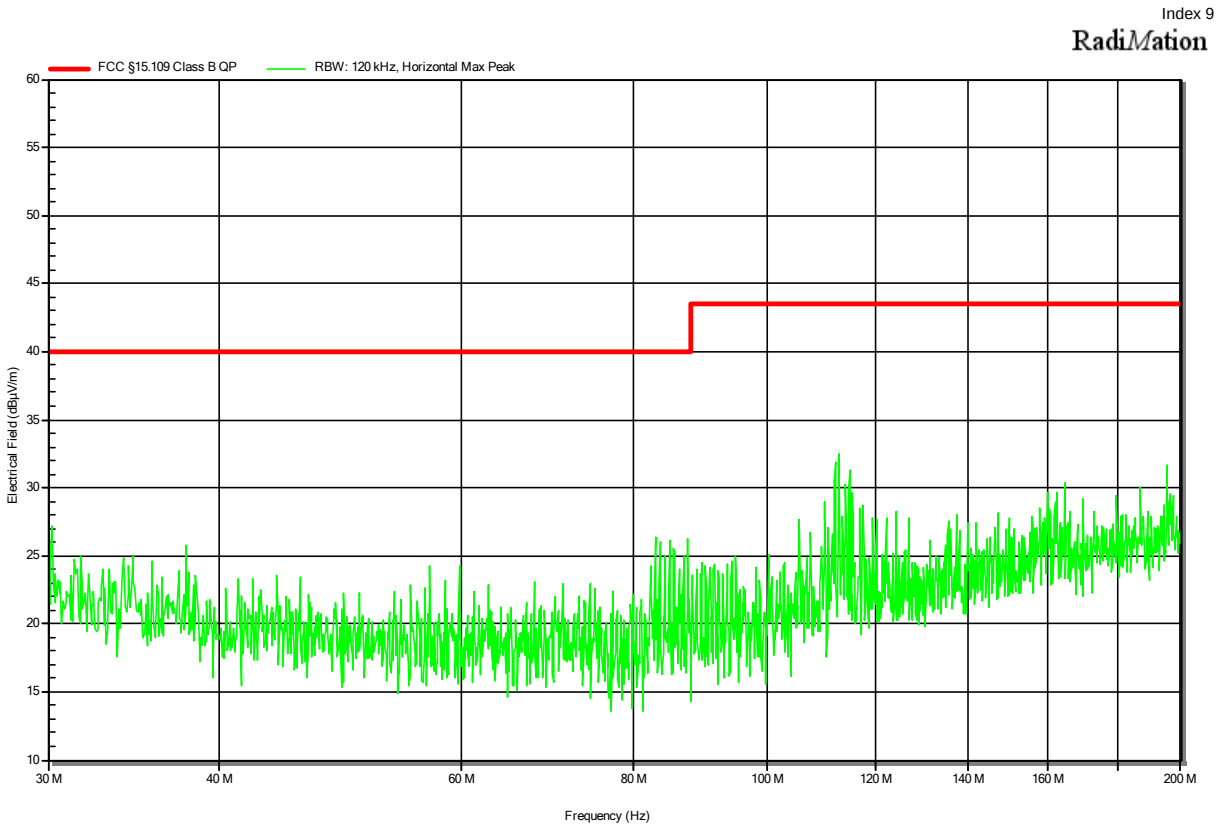
Radiated emissions
according to FCC part 15B

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33684
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2021-06-11
Operating Conditions:	ambient temperature: 22 °Celsius power input: 24 V DC by dedicated AC/DC-Adaptor (120 V / 60 Hz)
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement Distance:	3m
Operational Mode & EUT Configuration:	Mode 2 Configuration 2
Note 1:	--



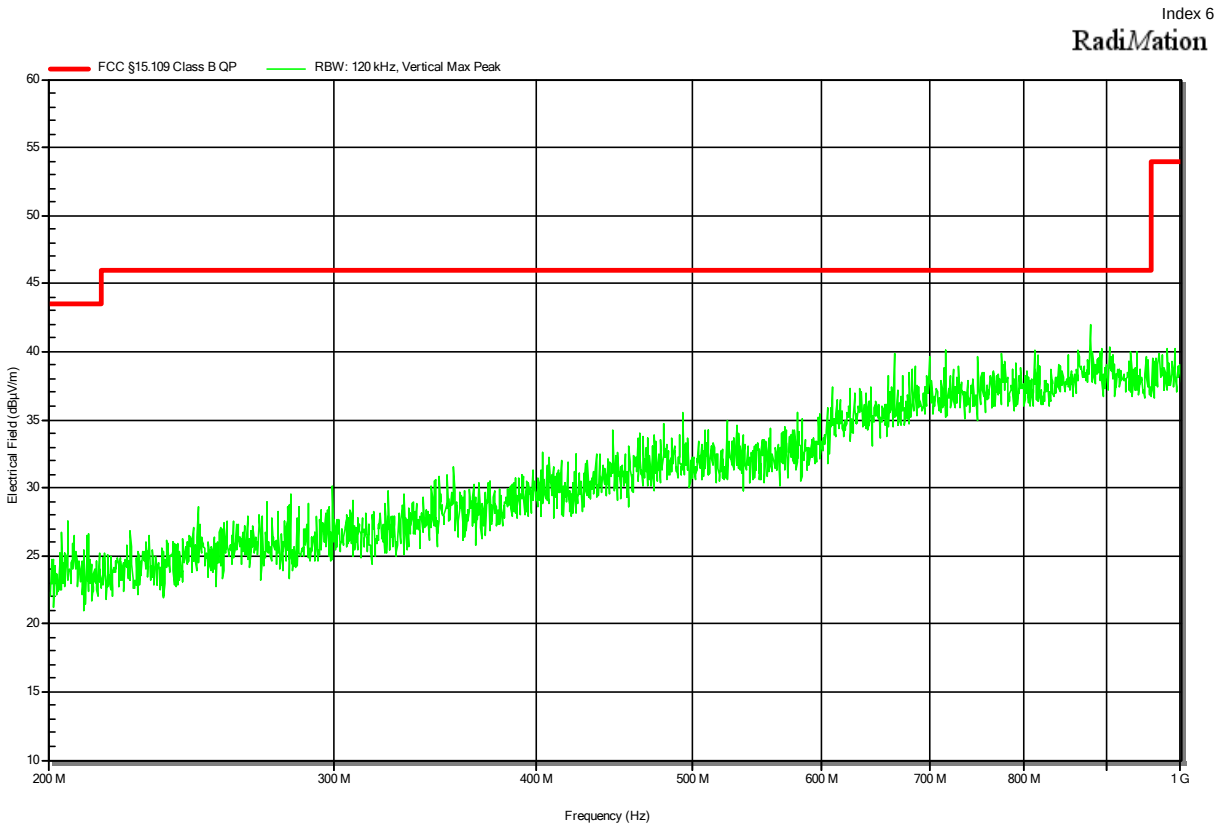
Radiated emissions
according to FCC part 15B

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33684
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2021-06-11
Operating Conditions:	ambient temperature: 22 °Celsius power input: 24 V DC by dedicated AC/DC-Adaptor (120 V / 60 Hz)
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement Distance:	3m
Operational Mode & EUT Configuration:	Mode 2 Configuration 2
Note 1:	--



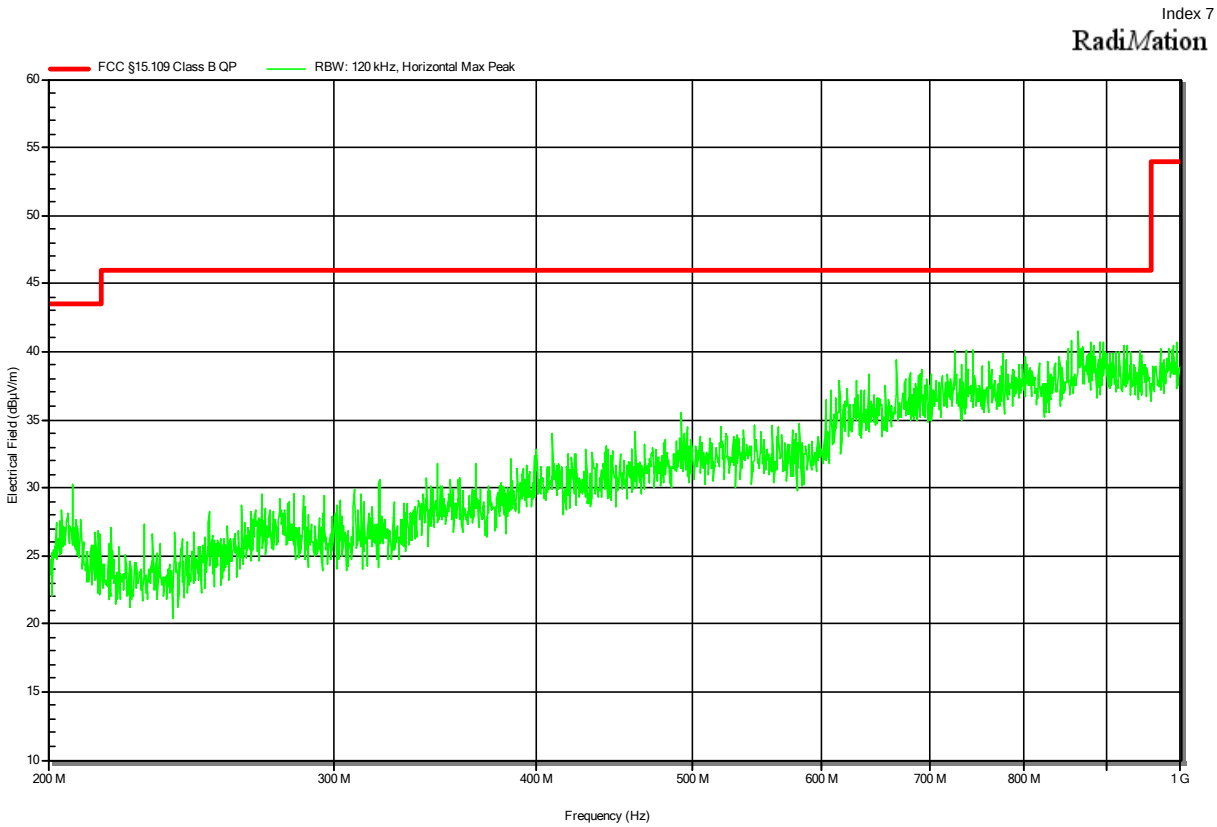
Radiated emissions
according to FCC part 15B

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33684
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2021-06-11
Operating Conditions:	ambient temperature: 22 °Celsius power input: 24 V DC by dedicated AC/DC-Adaptor (120 V / 60 Hz)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement Distance:	3m
Operational Mode & EUT Configuration:	Mode 2 Configuration 2
Note 1:	--



Radiated emissions
according to FCC part 15B

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33684
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2021-06-11
Operating Conditions:	ambient temperature: 22 °Celsius power input: 24 V DC by dedicated AC/DC-Adaptor (120 V / 60 Hz)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement Distance:	3m
Operational Mode & EUT Configuration:	Mode 2 Configuration 2
Note 1:	--



Radiated emissions
according to FCC part 15B

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33684
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2021-06-11
Operating Conditions:	ambient temperature: 22 °Celsius power input: 24 V DC by dedicated AC/DC-Adaptor (120 V / 60 Hz)
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement Distance:	3m
Operational Mode & EUT Configuration:	Mode 2 Configuration 2
Note 1:	--

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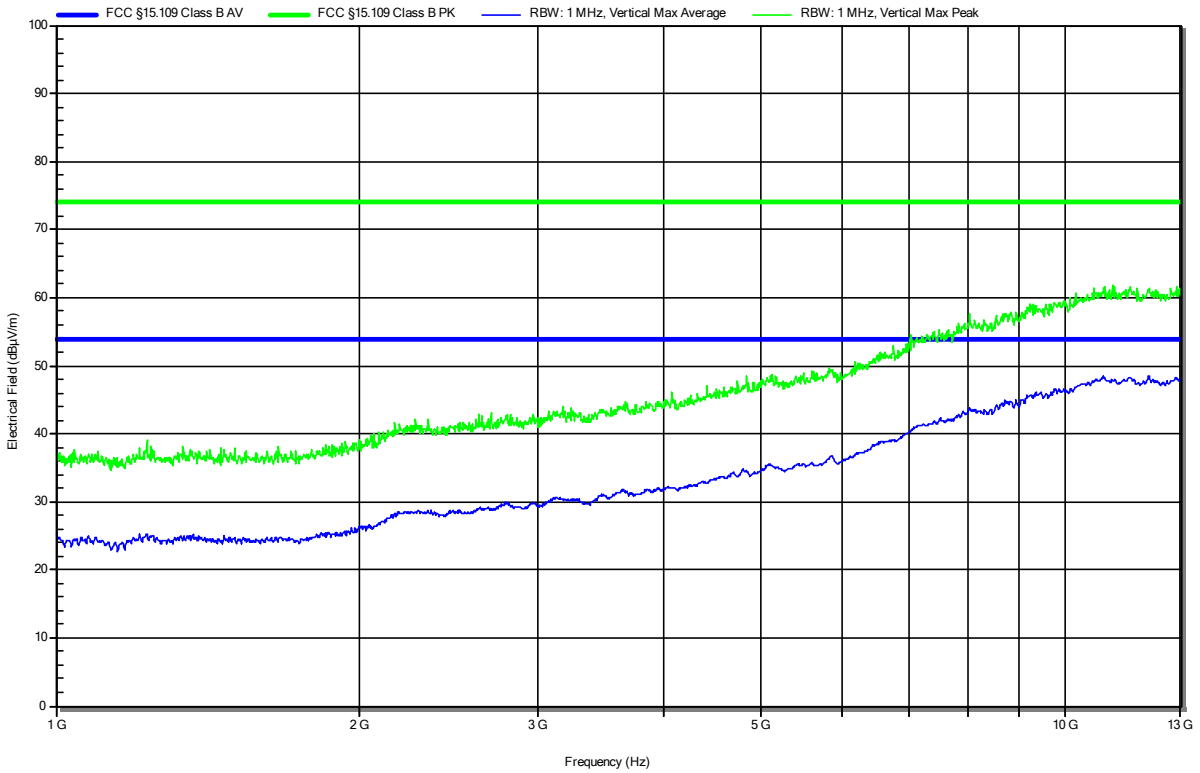
RadiMation



Radiated emissions
according to FCC part 15B

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33684
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2021-06-11
Operating Conditions:	ambient temperature: 22 °Celsius power input: 24 V DC by dedicated AC/DC-Adaptor (120 V / 60 Hz)
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement Distance:	3m
Operational Mode & EUT Configuration:	Mode 2 Configuration 2
Note 1:	--

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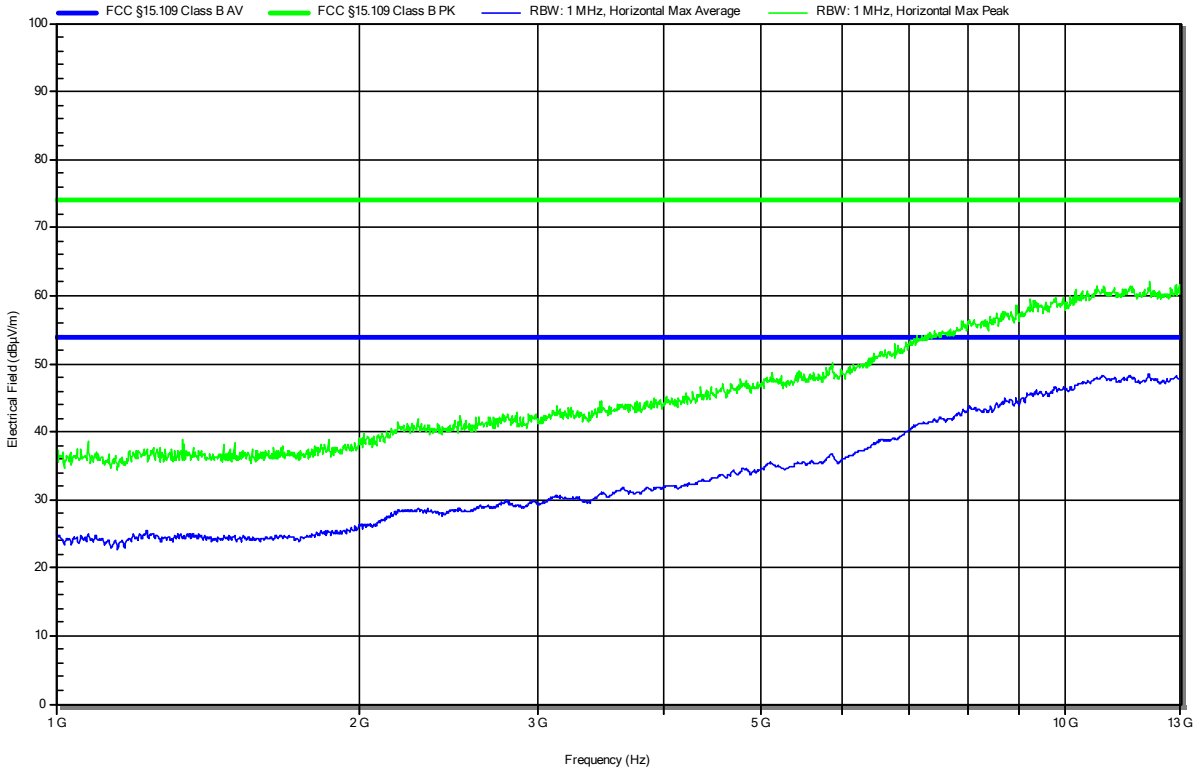
RadiMation



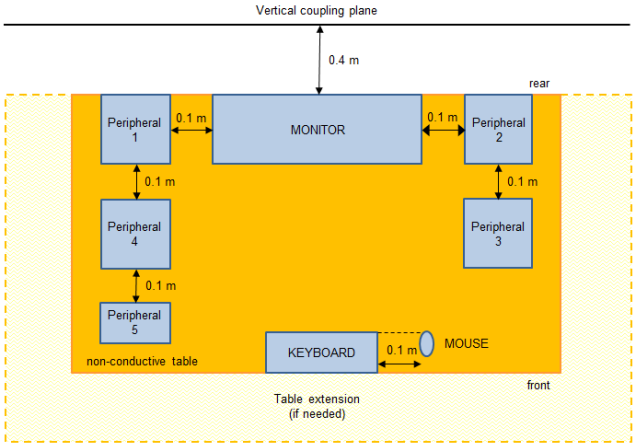
2.2 Test Conditions and Results - Conducted emissions acc. to ANSI C63.4

2.2.1 Information

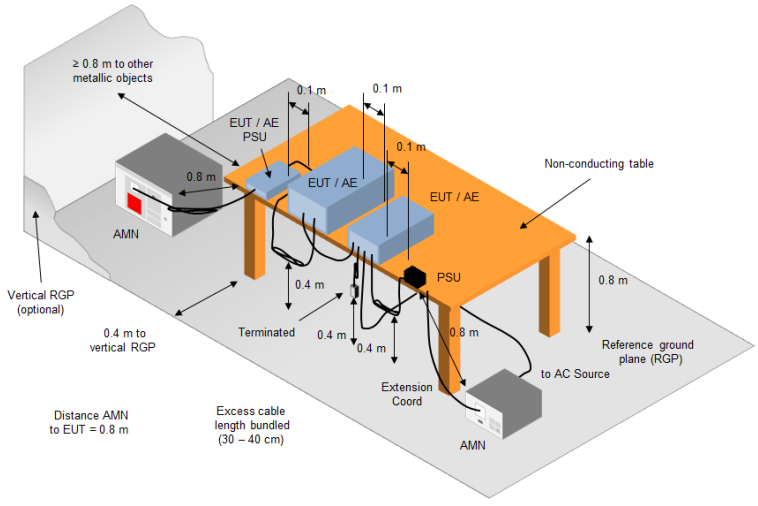
Test Information	
Reference	FCC 15.107, ICES-003, 3.2.1
Reference method	ANSI C63.4:2014+A1:2017 Section 12
Measurement range	150 kHz to 30 MHz
Equipment class	Class B
Equipment type	Table top
Temperature [°C]	21 – 23
Humidity [%]	41 – 43
Operator	Stephan Liebich
Date	2021-06-07

2.2.2 Setup

Equipment placement



Test Setup



2.2.3 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	Radimation	2020.1.8

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	Schwarzbeck	NSLK 8127	EF01592	2020-07	2021-07
Pulse Limiter	R&S	ESH3-Z2	EF01063	2020-07	2021-07
EMI Test Receiver	R&S	ESR 7	EF00943	2020-07	2021-07
AC & DC Power Supply	Chroma ATE Inc.	61604	EF01380	2020-07	2021-07
Climatic Sensor	Embedded Data Systems, LLC.	2800100000254 17E	EF01054	2021-03	2022-03

2.2.4 Procedure

Exploratory measurement
1. 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)
2. The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN.
3. 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).
4. The LISN measurement port was connected to a measurement receiver
5. I/O cables were bundled not longer than 0.4 m
6. Measurement was performed in the frequency range 0.15 – 30MHz on each current-carrying conductor
7. To maximize the emissions the cable positions were manipulated
8. The worst configuration of EUT and cables is shown on a test setup picture at item 2.2.2

Final measurement
1. 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)
2. The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN.
3. 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).
4. The LISN measurement port was connected to a measurement receiver
5. The EUT and cable arrangement were based on the exploratory measurement results
6. 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
AC Mains	AMN	2	2	PASS	--

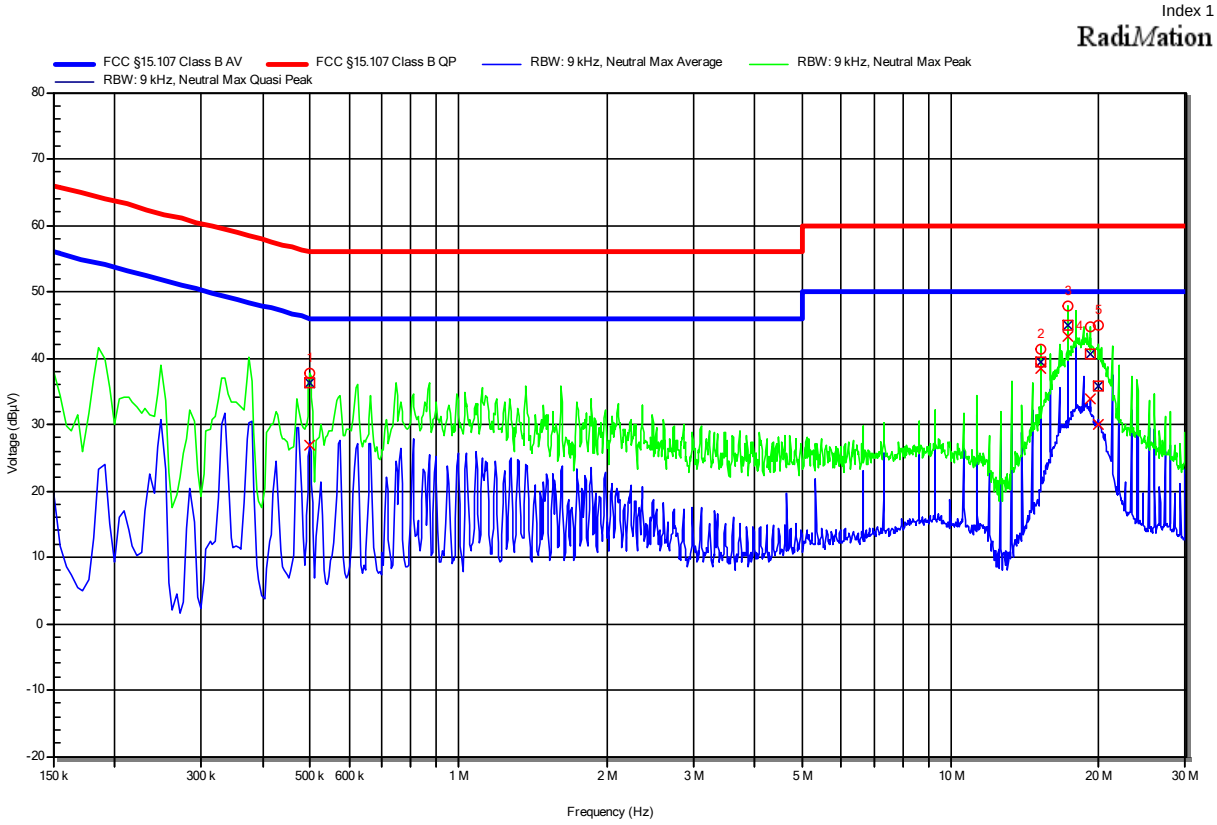
2.2.7 Setup Photos

CONDUCTED EMISSION ON PORT AC Mains

2.2.8 Records

Conducted emissions at the mains power port
according to FCC part 15B

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33684
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2021-06-07
Operating Conditions:	ambient temperature: 22 °Celsius power input: 24 V DC by dedicated AC/DC-Adaptor (120 V / 60 Hz)
LISN:	Schwarzbeck NSLK 8127 RC N
Operational Mode & EUT Configuration:	Mode 2 Configuration 2
Applied to Port:	AC Mains
Note 1:	--



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	498.3 kHz	36.38 dBµV	56.03 dBµV	-19.65 dB	Pass	Neutral
2	15.265 MHz	39.5 dBµV	60 dBµV	-20.5 dB	Pass	Neutral
3	17.255 MHz	44.94 dBµV	60 dBµV	-15.06 dB	Pass	Neutral
4	19.253 MHz	40.69 dBµV	60 dBµV	-19.31 dB	Pass	Neutral
5	19.928 MHz	35.77 dBµV	60 dBµV	-24.23 dB	Pass	Neutral

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	498.3 kHz	26.96 dBµV	46.03 dBµV	-19.07 dB	Pass	Neutral
2	15.265 MHz	38.35 dBµV	50 dBµV	-11.65 dB	Pass	Neutral
3	17.255 MHz	43.14 dBµV	50 dBµV	-6.86 dB	Pass	Neutral
4	19.253 MHz	33.88 dBµV	50 dBµV	-16.12 dB	Pass	Neutral
5	19.928 MHz	29.93 dBµV	50 dBµV	-20.07 dB	Pass	Neutral

Conducted emissions at the mains power port
according to FCC part 15B

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33684
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2021-06-07
Operating Conditions:	ambient temperature: 22 °Celsius power input: 24 V DC by dedicated AC/DC-Adaptor (120 V / 60 Hz)
LISN:	Schwarzbeck NSLK 8127 RC L
Operational Mode & EUT Configuration:	Mode 2 Configuration 2
Applied to Port:	AC Mains
Note 1:	--

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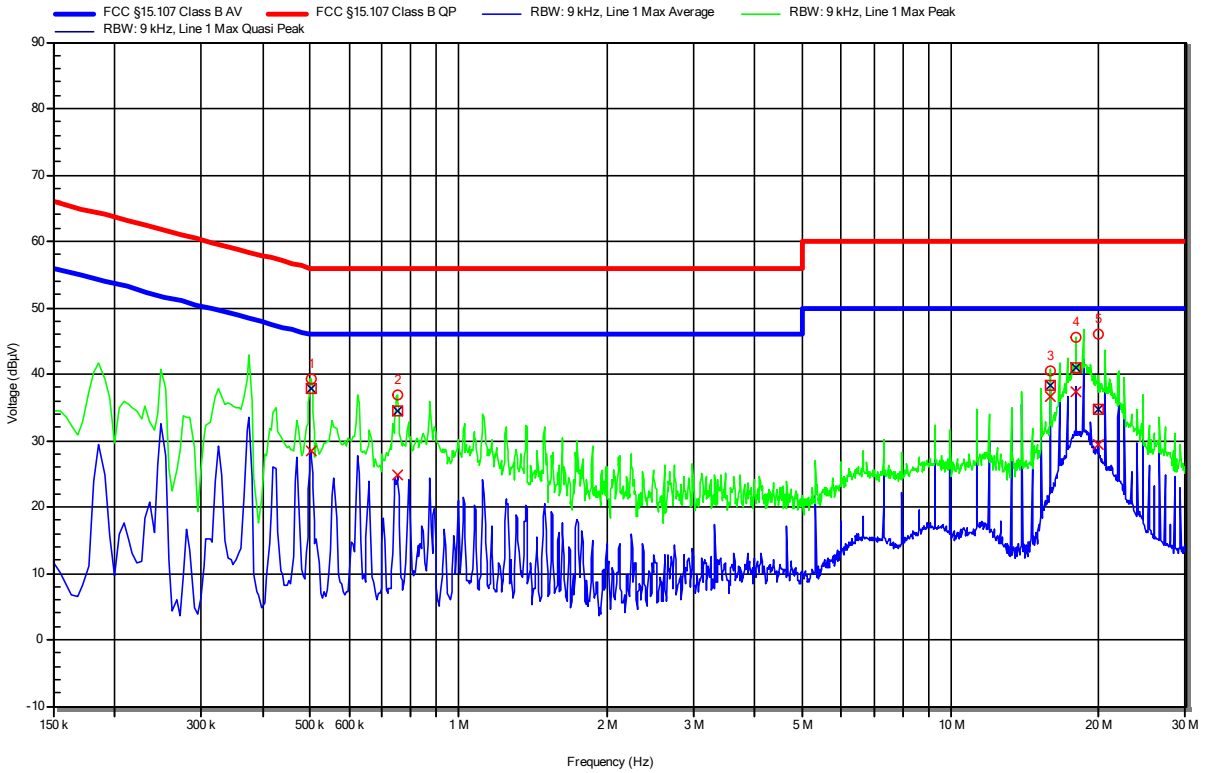
RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	500.55 kHz	37.94 dBµV	56 dBµV	-18.06 dB	Pass	Line 1
2	750.3 kHz	34.57 dBµV	56 dBµV	-21.43 dB	Pass	Line 1
3	15.931 MHz	38.42 dBµV	60 dBµV	-21.58 dB	Pass	Line 1
4	17.918 MHz	41.03 dBµV	60 dBµV	-18.97 dB	Pass	Line 1
5	19.91 MHz	34.74 dBµV	60 dBµV	-25.26 dB	Pass	Line 1

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	500.55 kHz	28.48 dBµV	46 dBµV	-17.52 dB	Pass	Line 1
2	750.3 kHz	24.86 dBµV	46 dBµV	-21.14 dB	Pass	Line 1
3	15.931 MHz	36.55 dBµV	50 dBµV	-13.45 dB	Pass	Line 1
4	17.918 MHz	37.43 dBµV	50 dBµV	-12.57 dB	Pass	Line 1
5	19.91 MHz	29.31 dBµV	50 dBµV	-20.69 dB	Pass	Line 1

3 Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95%, with a coverage factor of 2.

Test Name	Measurement Uncertainty
Conducted emissions at the mains power port	150kHz to 30MHz, 3.35dB
Radiated Emission	30MHz to 200MHz @ 3m, 5.1dB 200MHz to 1GHz @ 3m, 5.3dB >1GHz to 6GHz @3m, 5.95dB