RADIO REPORT

FCC 47 CFR Part 15C
ISED Canada RSS-247

Digital transmission systems operating within the 2400.0 MHz - 2483.5 MHz band

Report Reference No	G0M-2102-9617-TFC247ZB-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 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	47 CFR Part 15C RSS-247, Issue 2, 2017-02 RSS-Gen, Issue 5, Amendment 1, 2019-03
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	
Not applicable to EUT	N/A	
Test object does meet the requirement	P(PASS)	
Test object does not meet the requirement	F(FAIL)	
Testing:		
Test Lab Temperature	20 °C - 30 °C	
Test Lab Humidity	25 % - 55 %	
Date of receipt of test item	2021-03-30	
Report:		
Compiled by	Florian Voigt	
Tested by (+ signature) (Responsible for Test)	Florian Voigt	F. Vo
Approved by (+ signature) (Deputy Head of Lab)	Toralf Jahn	T. J
Date of Issue	2021-11-09	
Total number of pages	113	
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:		
Transmitter is not active when EUT is connected to its dedicated AC/DC adapter. Tests were conducted without an AC/DC adapter.		

ADDITIONAL VARIANTS

Additional Variants (not tested and not evaluated variants)		
Not-tested Variant	**Description**	
1	Product Type Description	Glove Tester
	Model name	SKAN Evolution 2
	Brand name	SKAN wGT
	Hardware Version	WirelessGT Evo 2
	Software Version	v2.0.0
2	Product Type Description	Glove Tester
	Model name	SKAN Evo 2
	Brand name	SKAN wGT
	Hardware Version	WirelessGT Evo 2
	Software Version	v2.0.0
3	Product Type Description	Glove Tester
	Model name	SKAN Globe
	Brand name	SKAN wGT
	Hardware Version	WirelessGT Evo 2
	Software Version	v2.0.0
Comment: Those named additional variants above have not been tested. Those additional variants of the series have been declared by the manufacturer. The test report explicitly states that those variants were neither tested nor assessed nor evaluated.		

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2021-11-09	Initial Release	

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
DSSS	Direct Sequence Spread Spectrum
EUT	Equipment Under Test
FCC	Federal Communications Commission
IEEE 802.15.4	MAC and PHY Layer for Wireless Personal Area Networks
ISED	Innovation, Science and Economic Development Canada
O-QPSK	Offset-Quadrature Phase Shift Keying
QPSK	Quadrature Phase Shift Keying
RBW	Resolution bandwidth
RMS	Root mean square
VBW	Video bandwidth
V_{NOM}	Nominal supply voltage

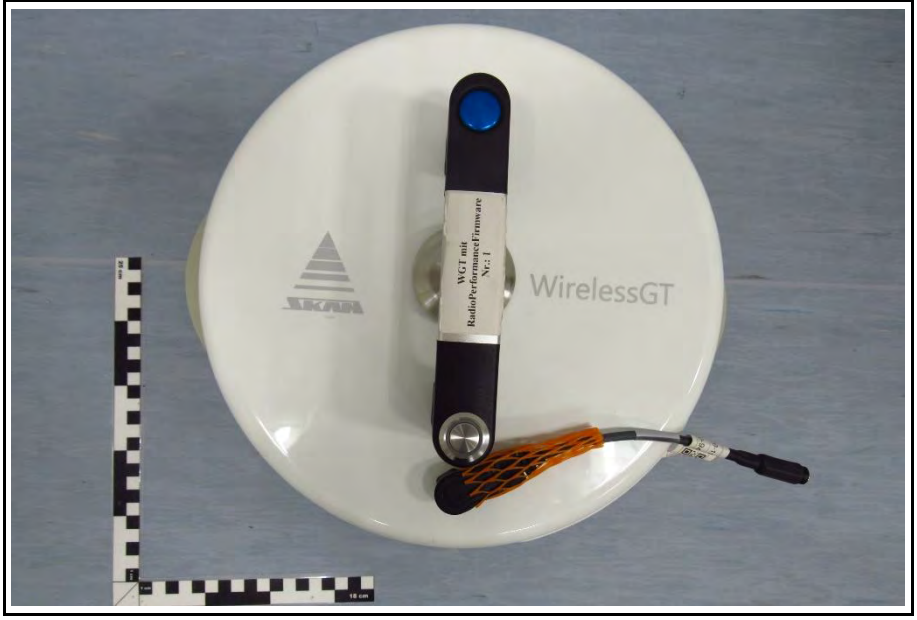
REPORT INDEX

1 Equipment (Test Item) Under Test

Description	Glove Tester	
Model	WirelessGT 2	
Additional Model(s)	None	
Brand Name(s)	SKAN wGT	
Serial Number(s)	30029475.011	
Test Sample Id	33685	
Hardware Version(s)	WirelessGT Evo 2	
Software Version(s)	v2.0.0	
PMN	Wireless Glove Tester	
HVIN	WirelessGT 2	
FVIN	26710700	
HMN	n/a	
FCC ID	2AXZXSKANWGT2XD	
IC	26652-SKANWGT02	
Equipment type	End Product	
Radio type	Transceiver	
Assigned frequency bands	2400.0 MHz - 2483.5 MHz	
Radio technology	IEEE 802.15.4	
Modulation	O-QPSK	
Number of antenna ports	2	
Antenna	Type	Integrated antenna
	Model	FXP74.07.0100A
	Manufacturer	taoglas
	Gain	4 dBi
Supply Voltage	V_{NOM}	15 VDC
Operating Temperature	T_{NOM}	20 °C
AC/DC-Adaptor	Model	GST90A24-P1M
	Vendor	Mean Well
	Input	90 ~ 264VAC 127 ~ 370VDC
	Output	24 VDC
Manufacturer	SKAN Deutschland GmbH Nickrischer Straße 2 02827 Görlitz/Hagenwerder GERMANY	

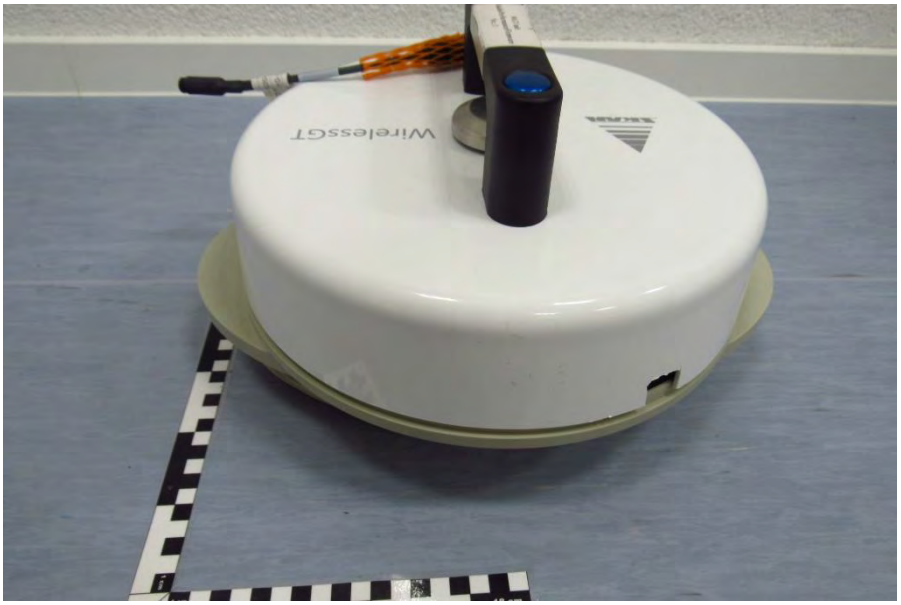
1.1 Photos – Equipment External

EUT WITH ACDC-ADAPTOR IN PERSPECTIVE


Top side view


Side view A


Side view B


Side view C


Side view D

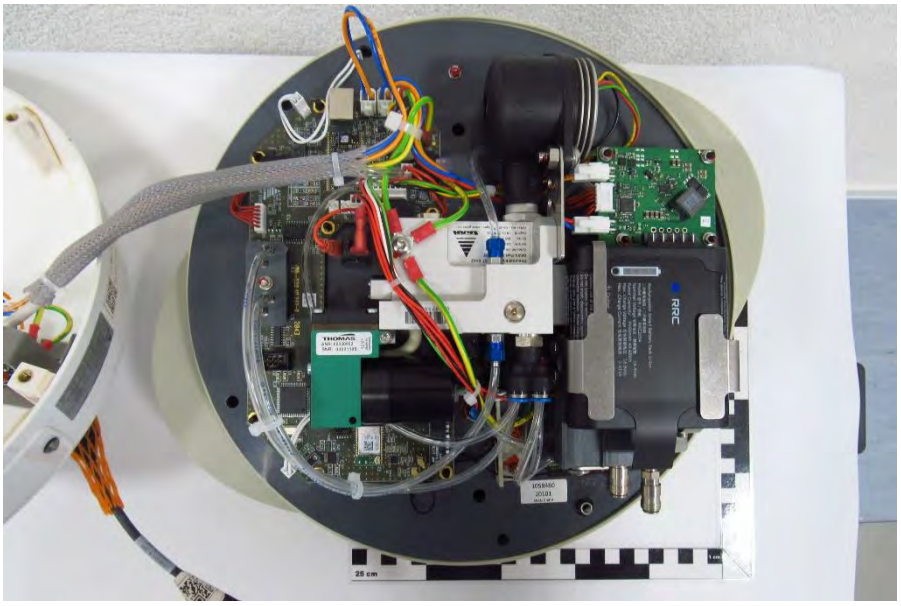

Bottom side view

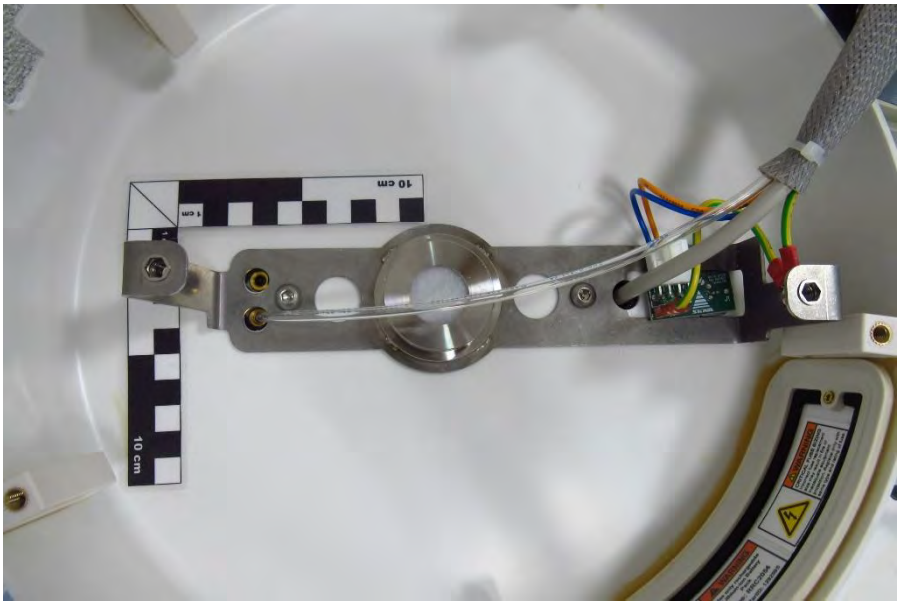

EUT LABEL

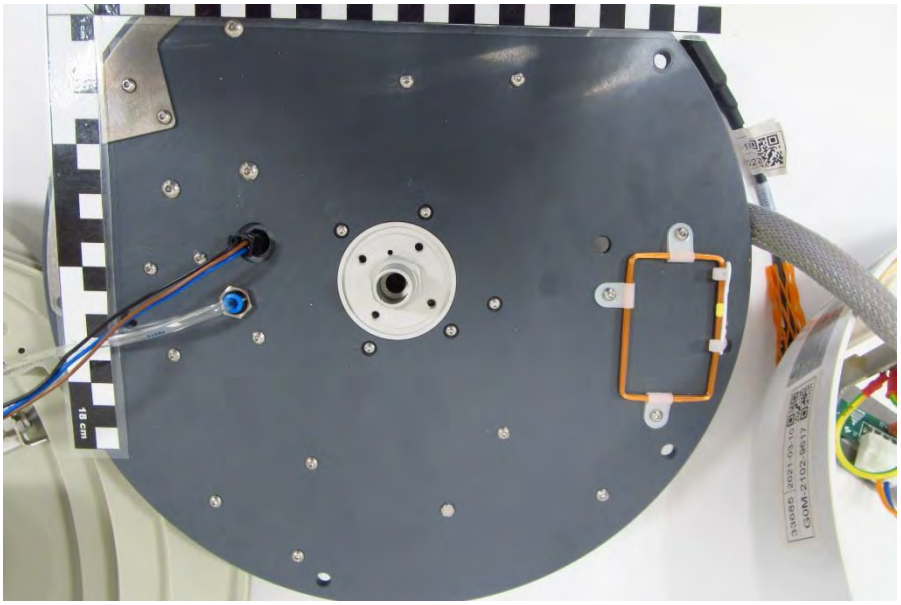

ACDC-ADAPTOR CONNECTORS

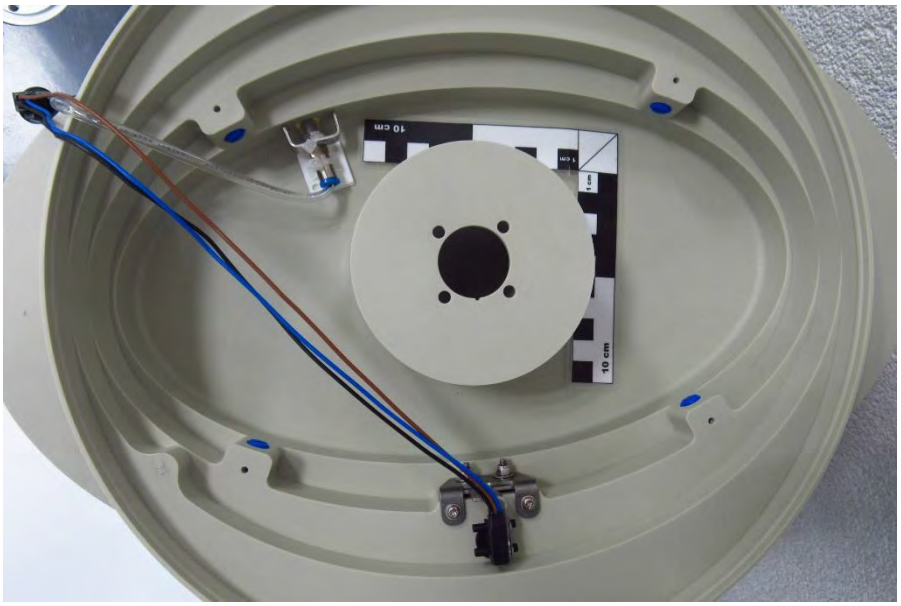

ACDC-ADAPTOR LABEL


1.2 Photos – Equipment Internal

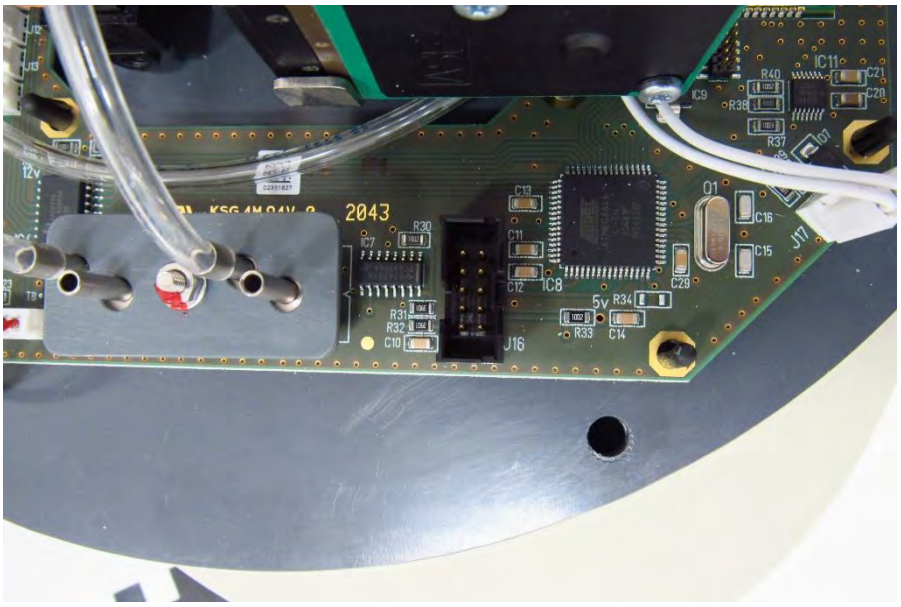
Interior view A


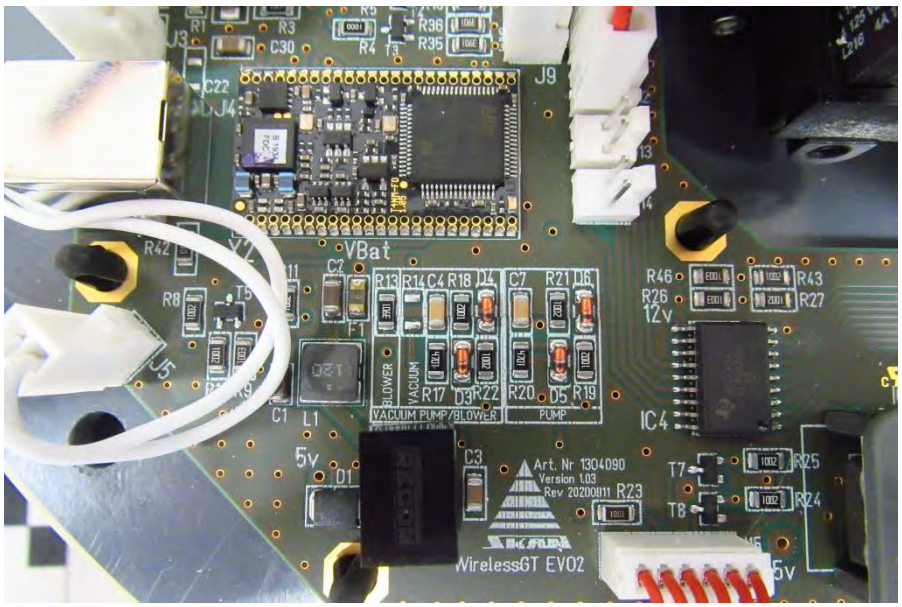
Interior view B


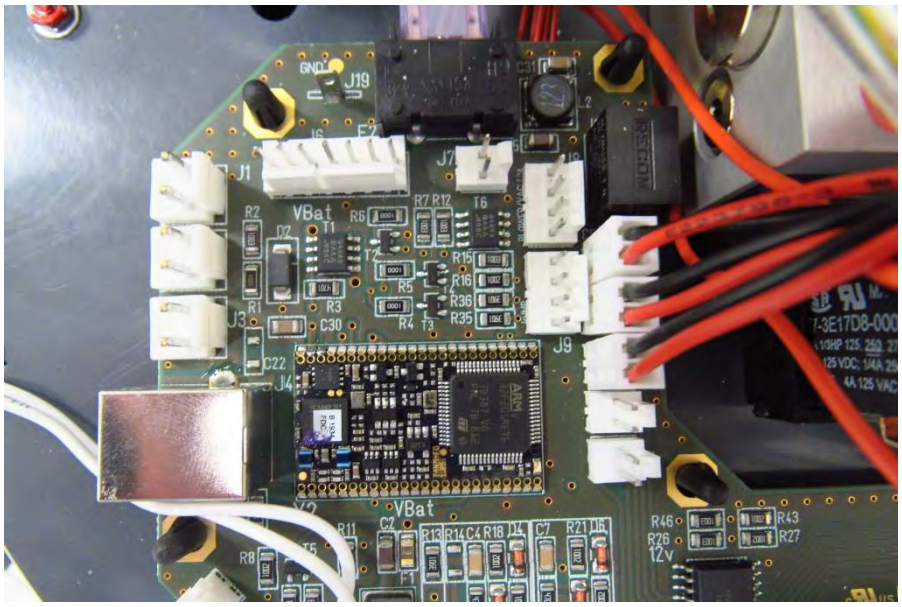
Interior view C


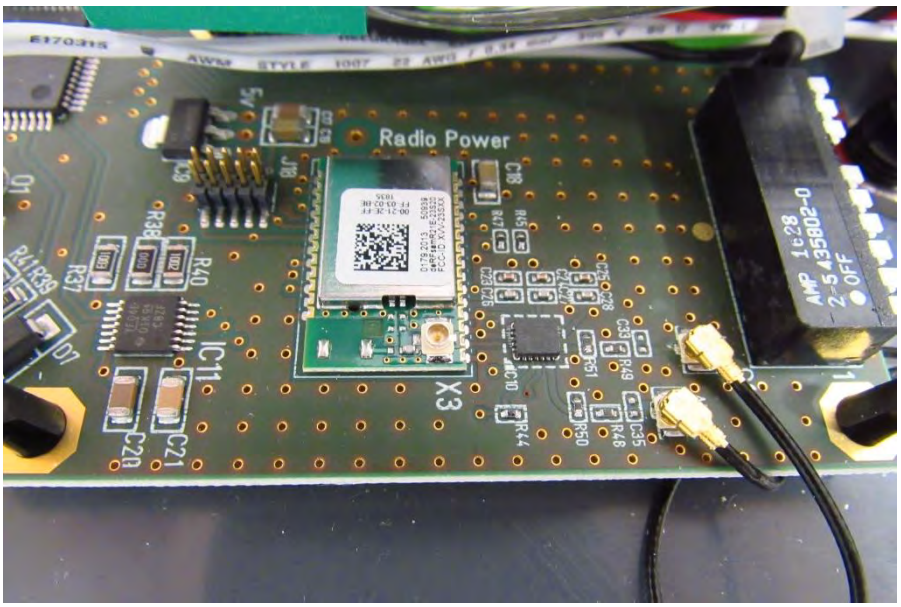
Interior view D


PCB top view A

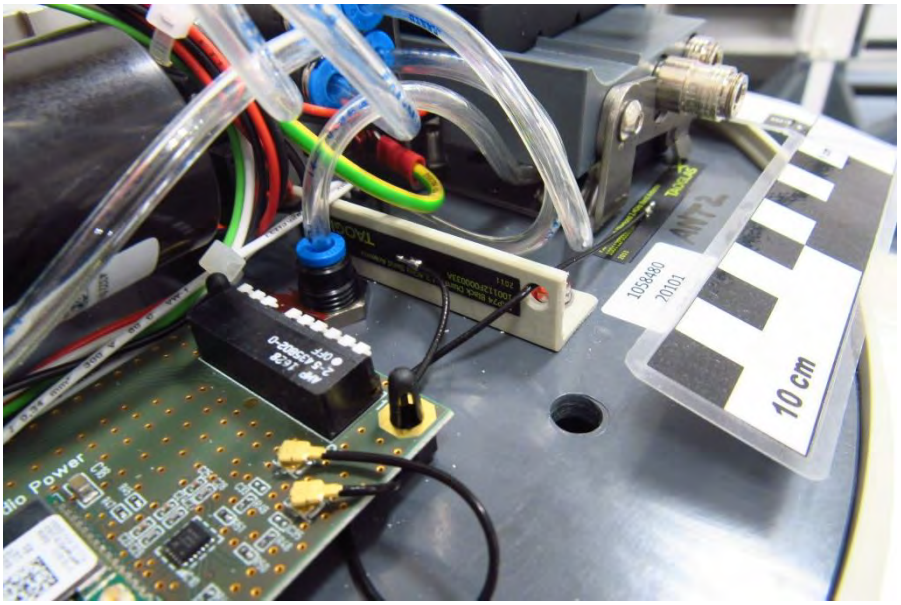

PCB top view B


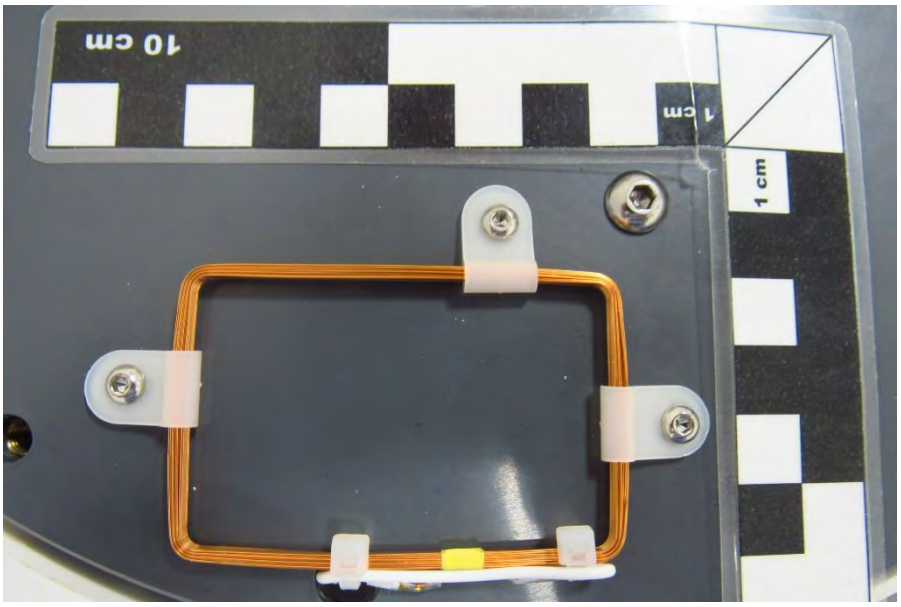
PCB top view C


PCB top view D


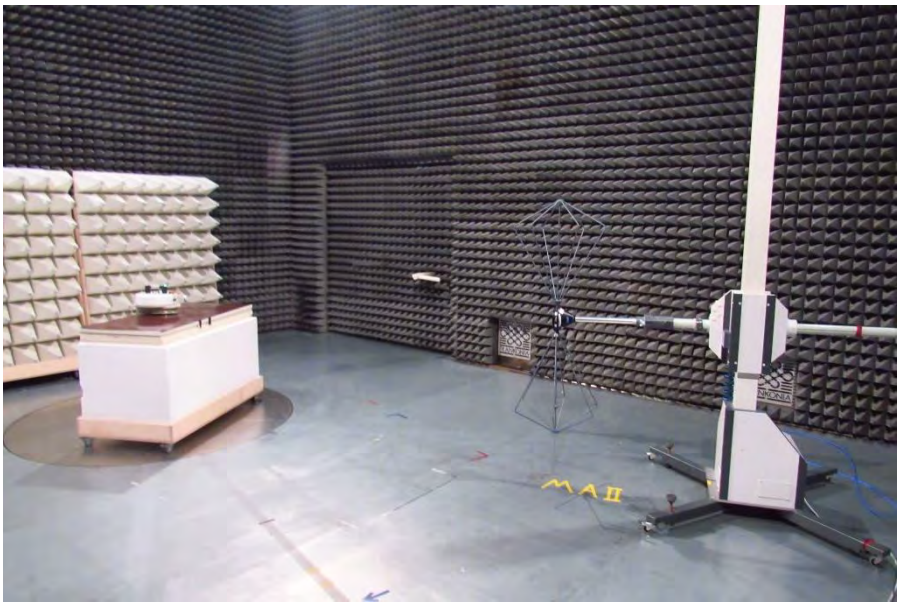
PCB view radio part


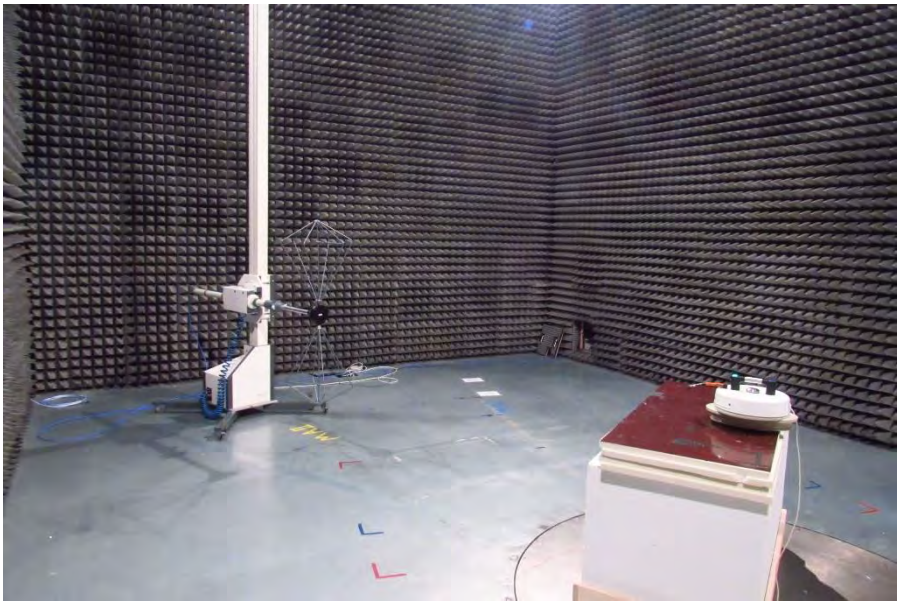
ZB Antenna view A


ZB Antenna view B


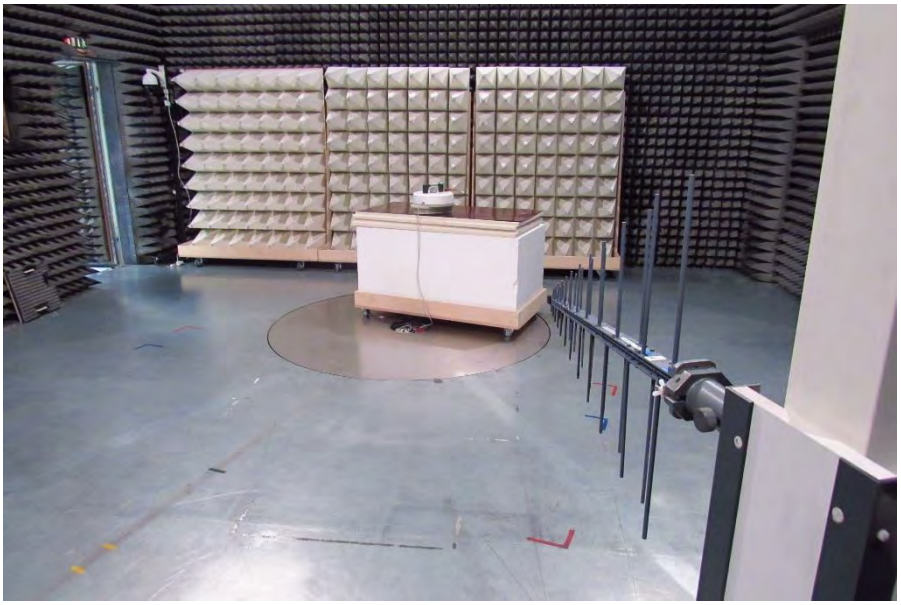
RFID antenna view


1.3 Photos – Test Setup

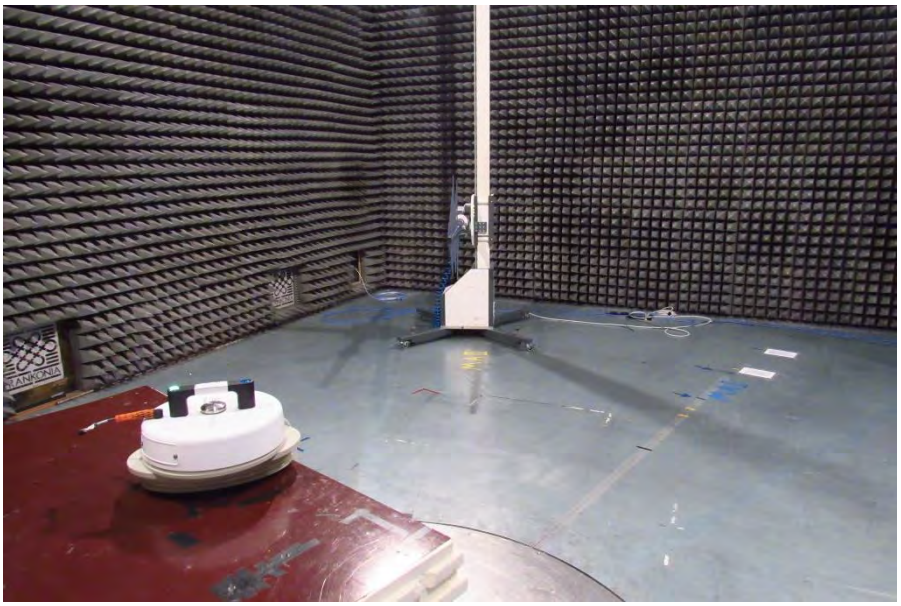
Setup 30 - 200MHz A


Setup 30 - 200MHz B


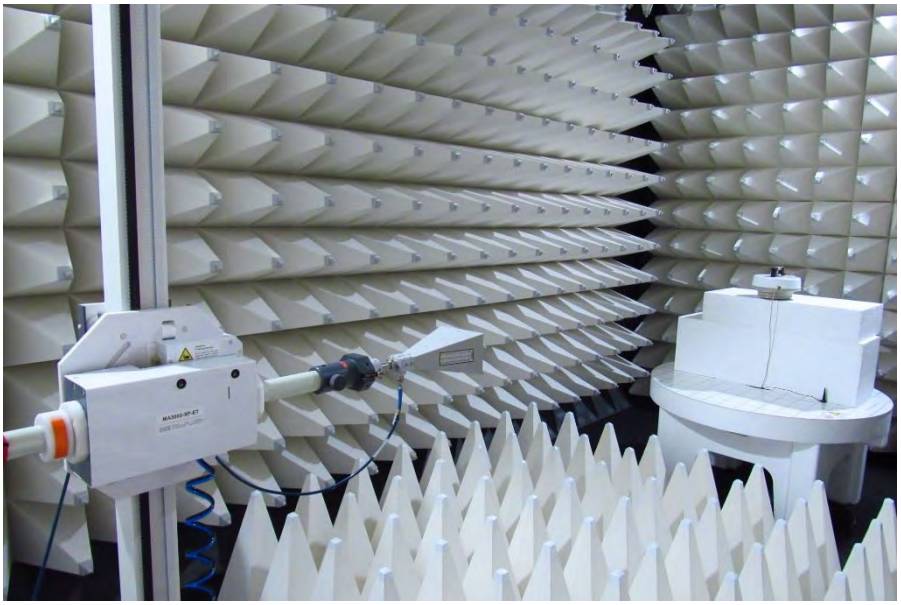
Setup 200 - 1000MHz A



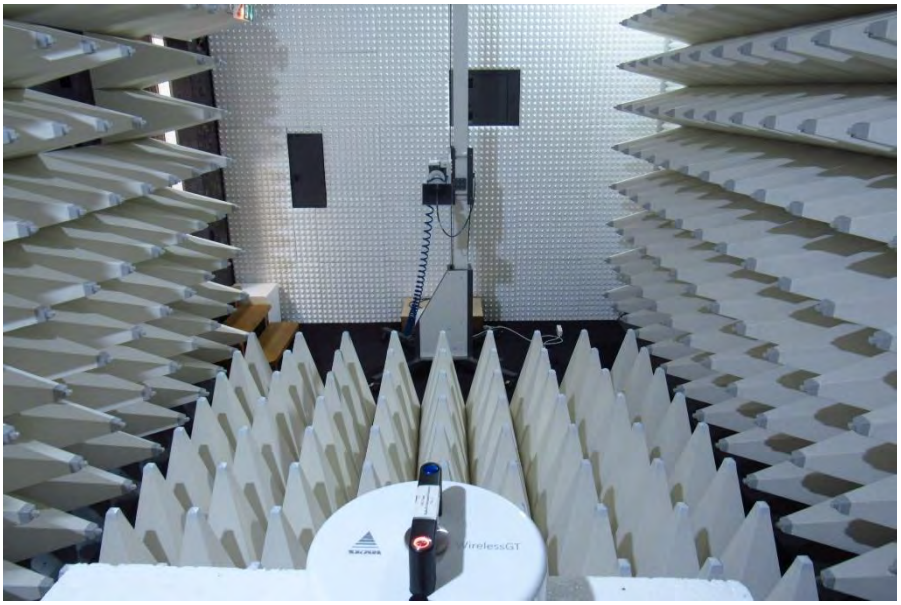
Setup 200 - 1000MHz B



Setup 1 to 6.5 GHz A

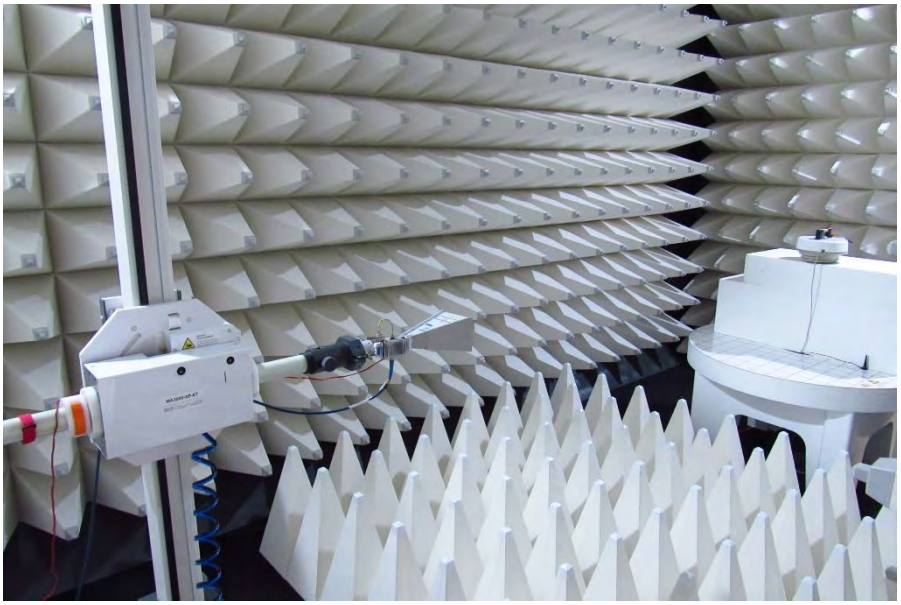

Setup 1 - 8 GHz B


Setup 1 - 8 GHz C

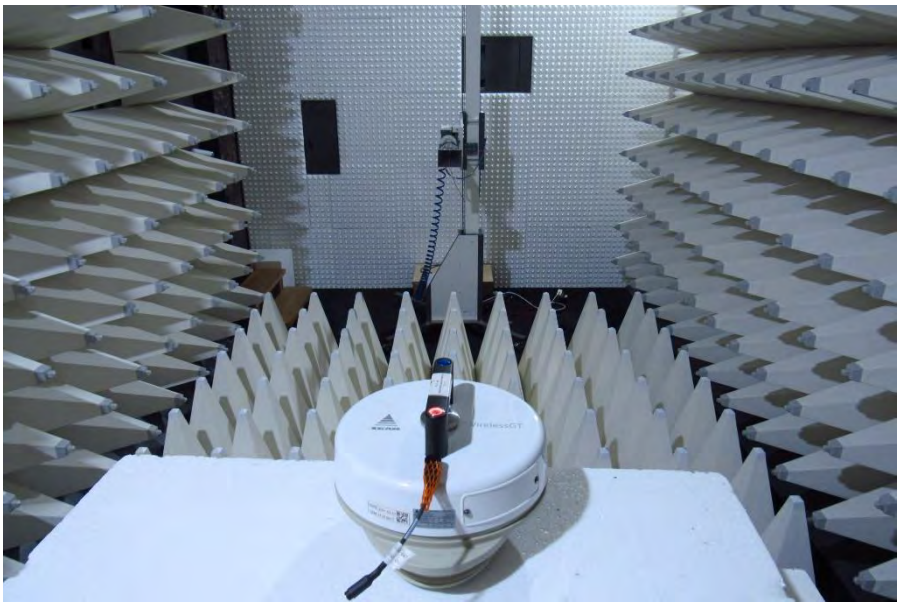


Setup 6.5 to 18 GHz A

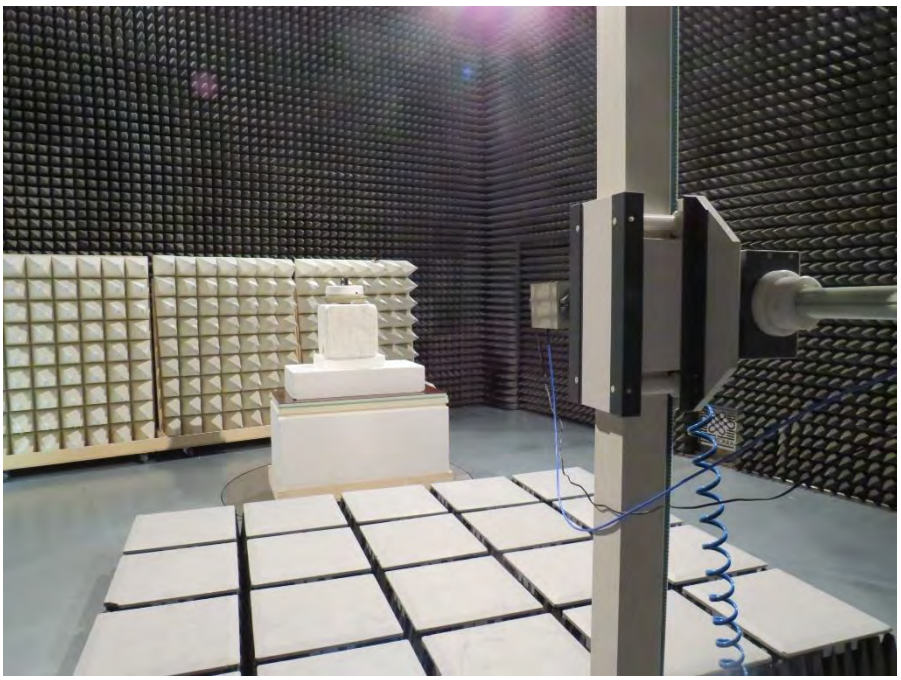
Setup 8 - 18 GHz B



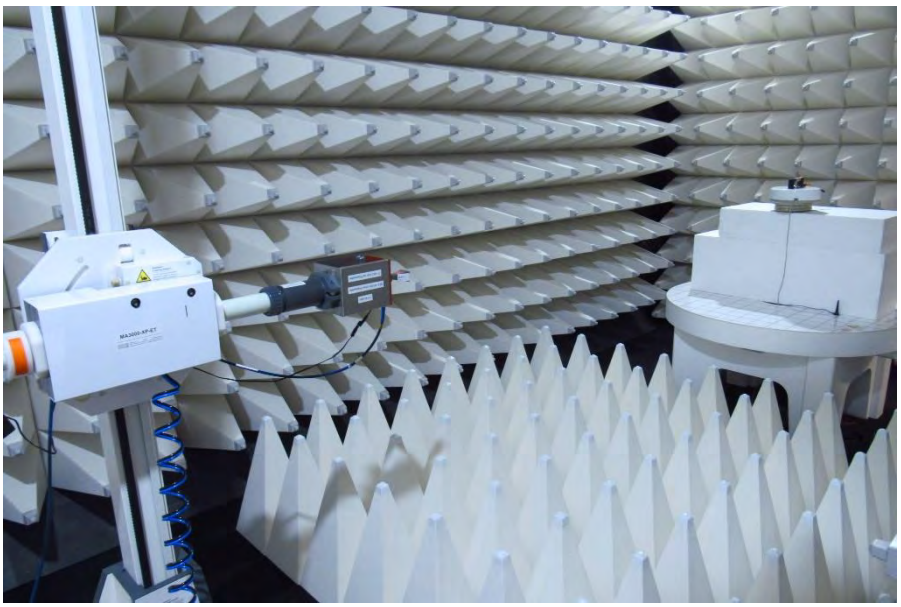
Setup 8 - 18 GHz C



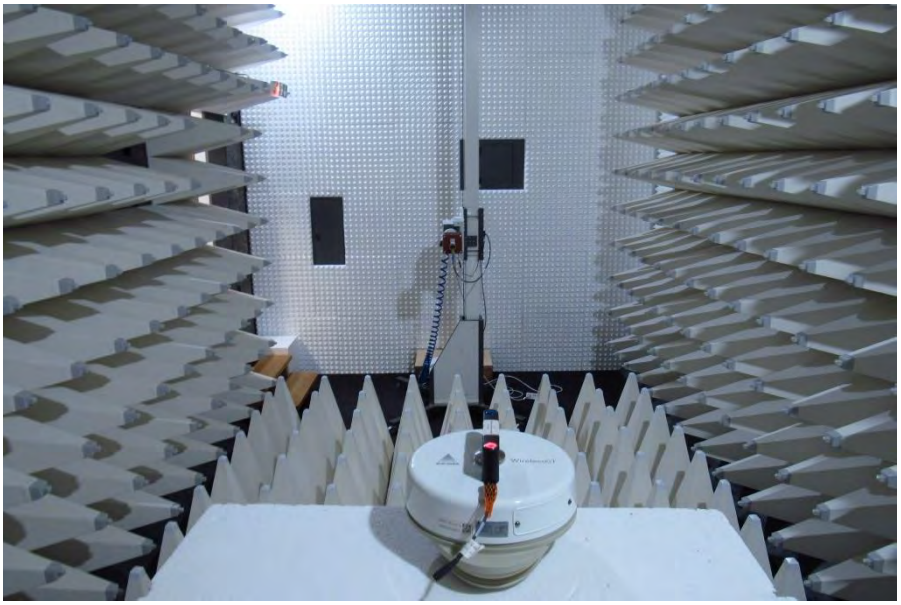
Setup 18 to 26.5 GHz A



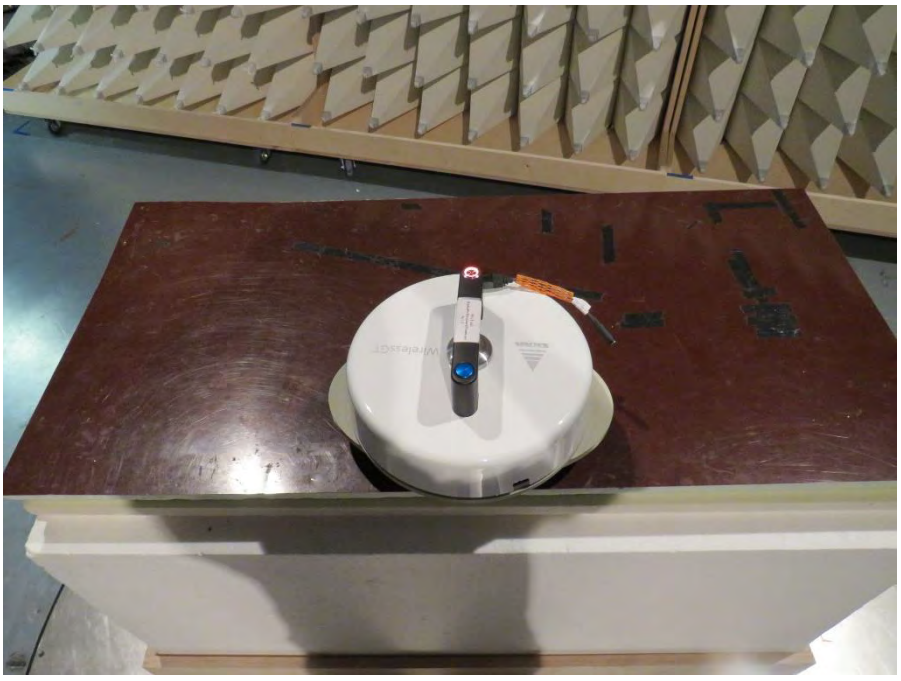
Setup 18 to 26.5 GHz B



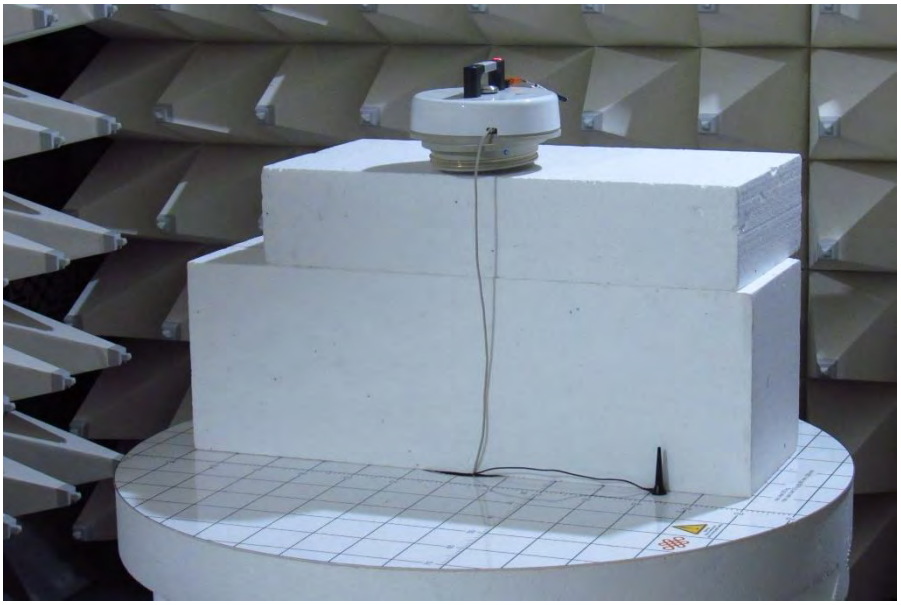
Setup 18 to 26.5 GHz C



Setup EUT view below 1 GHz



Setup EUT view above 1 GHz A


Setup above 1 GHz B


1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	Laptop	Lenovo	T440	
AE	Laptop power supply	Lite-on Technology	ADLX45NLC3A	
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment:				

1.5 Test Modes

Mode	Description
DSSS O-QPSK A0	Mode = Transmit Modulation = O-QPSK Spreading = DSSS Data rate = 250 kbps Chip rate = 2000 kbps Antenna = 0 (PCB label ANT2) Duty cycle = 100% Power setting = 13
DSSS O-QPSK A1	Mode = Transmit Modulation = O-QPSK Spreading = DSSS Data rate = 250 kbps Chip rate = 2000 kbps Antenna = 1 (PCB label ANT1) Duty cycle = 100% Power setting = 13
Receive	Mode = Receive
Comment: EUT has 2 antennas for antenna diversity. For radiated measurements mode DSSS O-QPSK A1 was only tested within frequency range 4 to 18 GHz.	

1.6 Test Frequencies

Designator	Mode	Channel	Frequency [MHz]
F1	Tx	11	2405
F2	Tx / Rx	18	2440
F3	Tx	24	2470
Comment: Channels 25 and 26 are disabled by the manufacturer			

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 analyzer in dBµV. Any external preamplifiers used are taken into account through internal analyzer 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 analyzer. 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 Analyzer (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 15C, ISED RSS-247				
Product Standard Reference	**Requirement**	**Reference Method**	**Result**	**Remarks**
ISED RSS-Gen, Issue 5 A2 (section 6.7)	Occupied Bandwidth	ANSI C63.10-2013	N/R	Informational only
FCC § 15.247(a)(2) ISED RSS-247, Issue 2 (section 5.2)	6 dB Bandwidth	ANSI C63.10-2013	PASS	
FCC § 15.247(b) ISED RSS-247, Issue 2 (section 5.4)	Maximum peak conducted power	ANSI C63.10-2013	PASS	
FCC § 15.247(e) ISED RSS-247, Issue 2 (section 5.2)	Power spectral density	ANSI C63.10-2013	PASS	
FCC § 15.207 ISED RSS-247, Issue 2 (section 3.1)	AC power line conducted emissions	ANSI C63.10-2013	N/R	Transmitters are disabled when EUT is connected to the AC/DC-Adapter
FCC § 15.247(d) ISED RSS-247, Issue 2 (section 5.5)	Band edge compliance	ANSI C63.10-2013	PASS	
FCC § 15.247(d) ISED RSS-247, Issue 2 (section 5.5)	Conducted spurious emissions	ANSI C63.10-2013	PASS	
FCC § 15.247(d) FCC § 15.209 ISED RSS-Gen, Issue 5 A2 (section 6.13)	Transmitter radiated spurious emissions	ANSI C63.10-2013	PASS	
ISED RSS-247, Issue 2 (section 3.1)	Receiver radiated spurious emissions	ANSI C63.10-2013	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

3 Test Conditions and Results

3.1 Test Conditions and Results - Occupied bandwidth

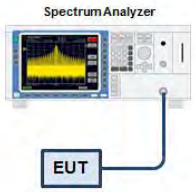
3.1.1 Information

Test Information	
Reference	ISED RSS-Gen, Issue 5 A2 (section 6.7)
Measurement Method	ANSI C63.10 6.9.3
Measurement Uncertainty	± 1.26 %
Test Sample ID	33685
Operator	Florian Voigt
Date	2021-10-19

3.1.2 Limits

Limits
None (Informational only)

3.1.3 Setup

Test Setup


3.1.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01709	2021-02	2022-02
Cable (diverse)	Huber+Suhner	Sucoflex 100	EF00779 CAABQ	2020-12	2021-12

3.1.5 Procedure

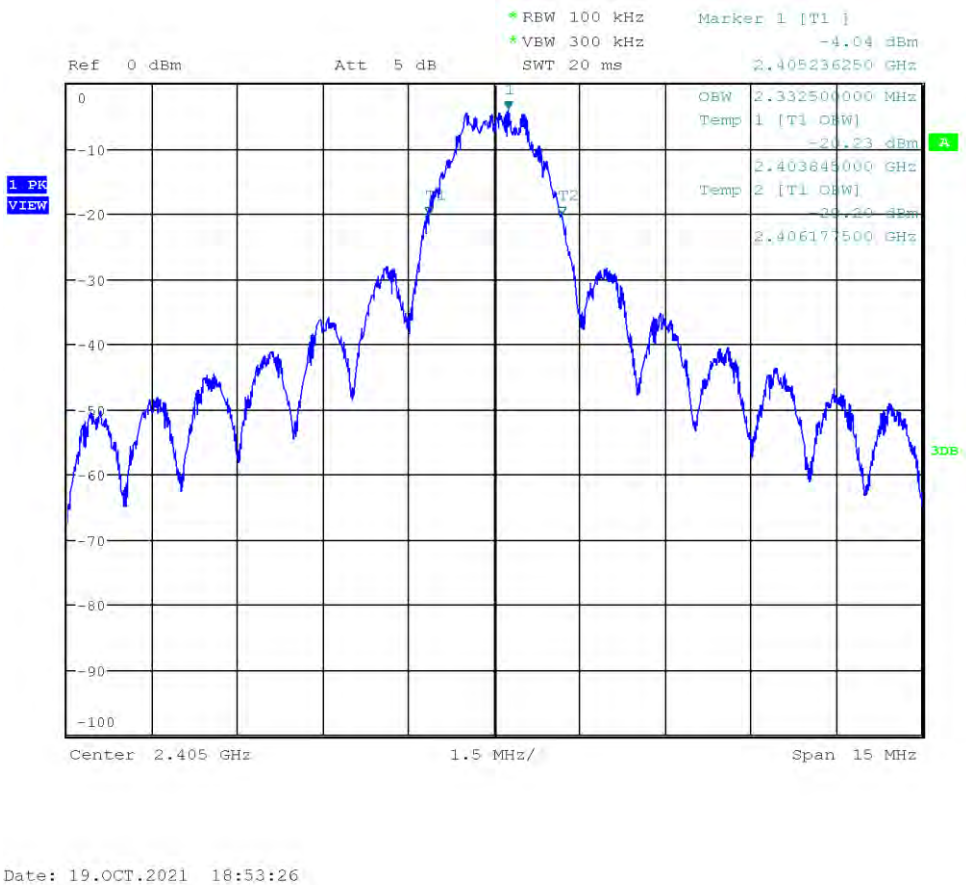
Test Procedure
1. EUT transmitter is activated in test mode under normal conditions 2. The spectrum analyzer is set to peak detection and maximum hold with a span twice the emission spectrum 3. The resolution bandwidth is set to the range of 1 % to 5 % of the occupied bandwidth 4. The occupied bandwidth is measured with the build-in analyzer function

3.1.6 Results

Test Results		
Mode	Frequency [MHz]	Bandwidth [MHz]
DSSS O-QPSK A0	2405	2.333
DSSS O-QPSK A0	2440	2.366
DSSS O-QPSK A0	2470	2.404
DSSS O-QPSK A1	2405	2.336
DSSS O-QPSK A1	2440	2.366
DSSS O-QPSK A1	2470	2.404

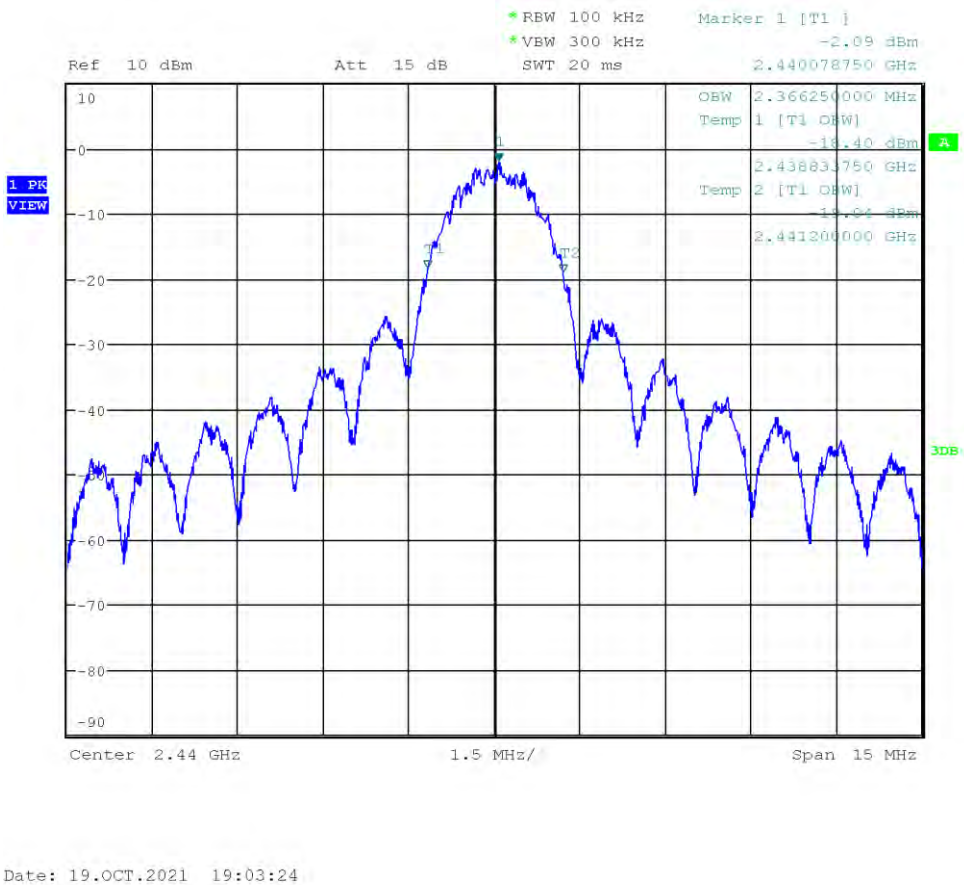
Occupied Bandwidth

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	DSSS O-QPSK A0, Channel: 11, 2405 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Occupied Bandwidth [MHz]:	2.333



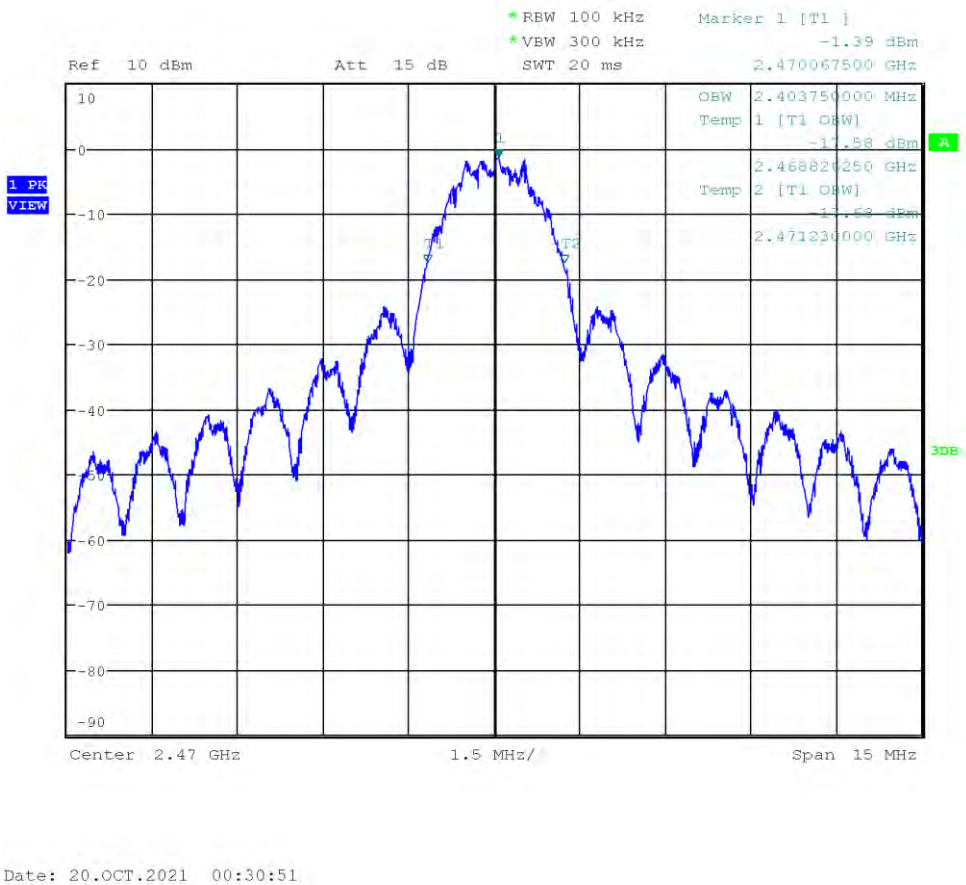
Occupied Bandwidth

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	DSSS O-QPSK A0, Channel: 18, 2440 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Occupied Bandwidth [MHz]:	2.366



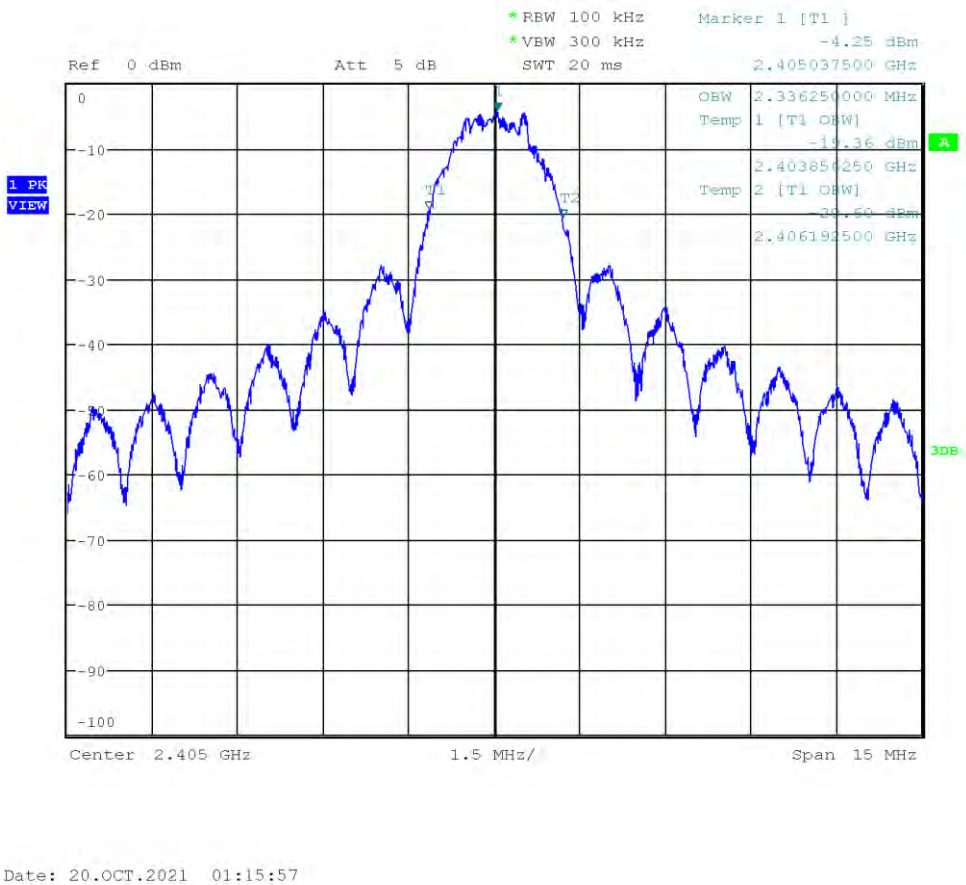
Occupied Bandwidth

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	DSSS O-QPSK A0, Channel: 24, 2470 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Occupied Bandwidth [MHz]:	2.404



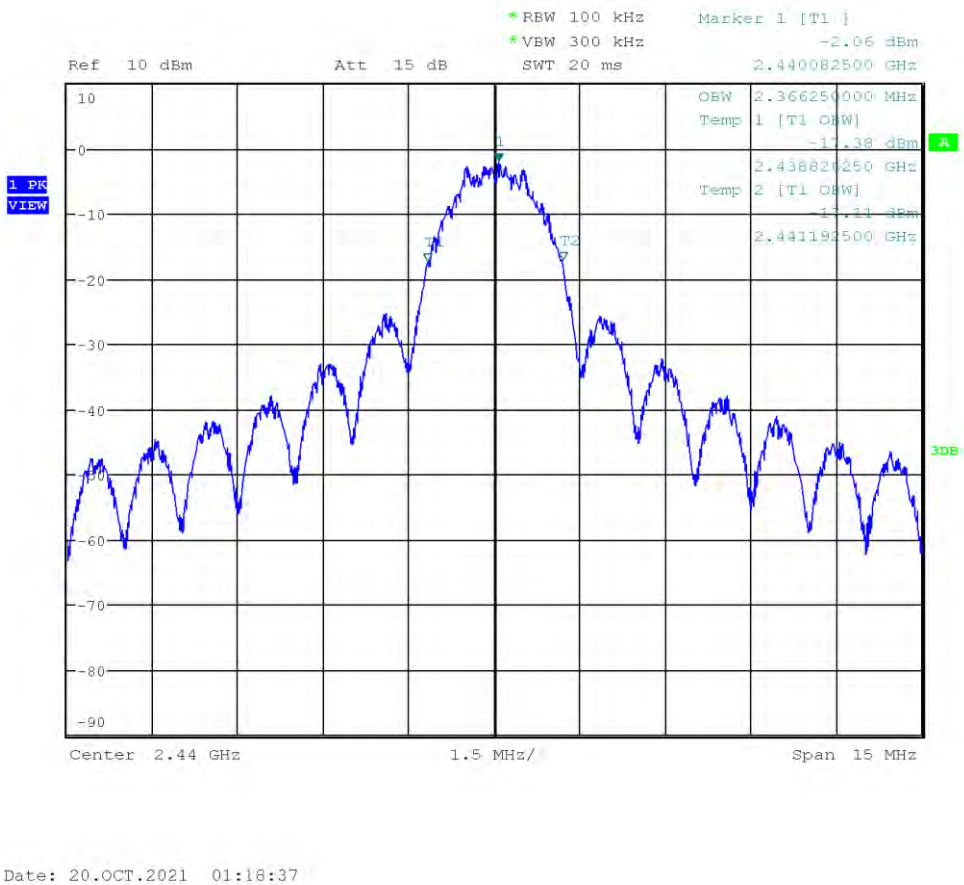
Occupied Bandwidth

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	DSSS O-QPSK A1, Channel: 11, 2405 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Occupied Bandwidth [MHz]:	2.336



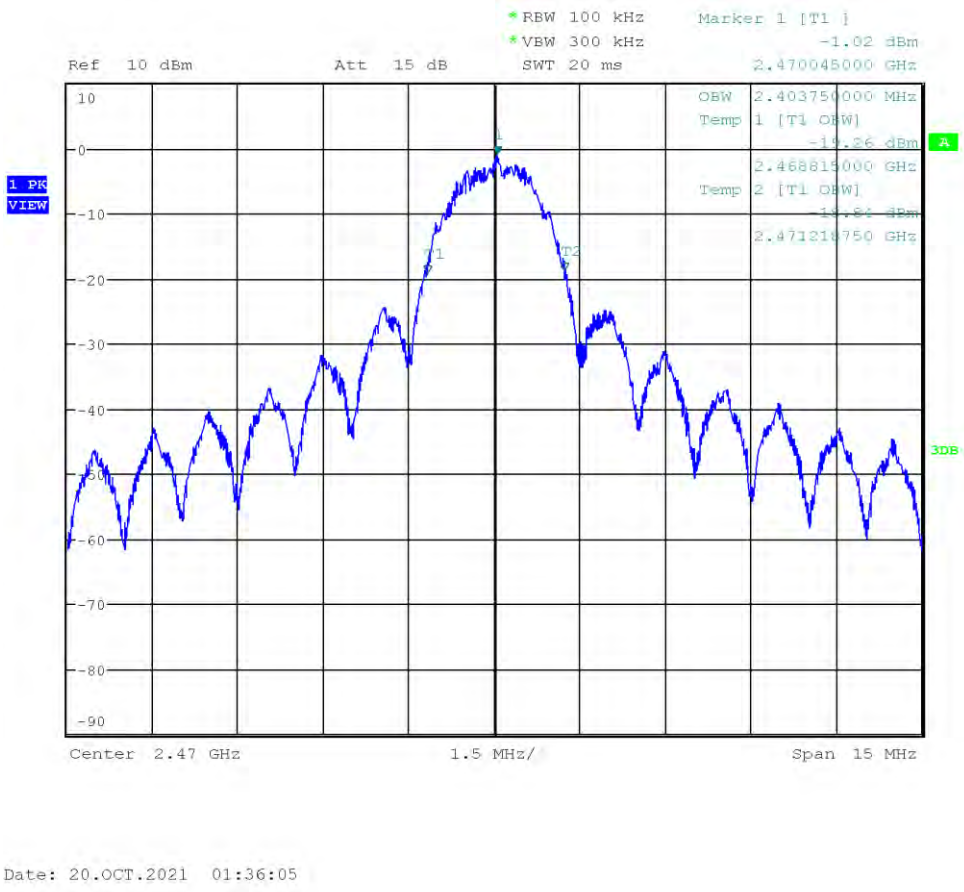
Occupied Bandwidth

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	DSSS O-QPSK A1, Channel: 18, 2440 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Occupied Bandwidth [MHz]:	2.366



Occupied Bandwidth

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	DSSS O-QPSK A1, Channel: 24, 2470 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Occupied Bandwidth [MHz]:	2.404



3.2 Test Conditions and Results - 6 dB bandwidth

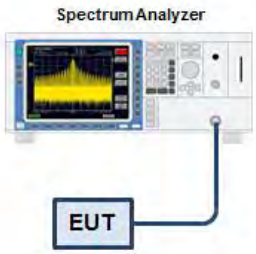
3.2.1 Information

Test Information	
Reference	FCC § 15.247(a)(2); ISED RSS-247, Issue 2 (section 5.2)
Measurement Method	ANSI C63.10 11.8
Measurement Uncertainty	± 1.26 %
Operator	Florian Voigt
Date	2021-10-19

3.2.2 Limits

Limits
≥ 500kHz

3.2.3 Setup

Test Setup


3.2.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01709	2021-02	2022-02
Cable (diverse)	Huber+Suhner	Sucoflex 100	EF00779 CAABQ	2020-12	2021-12

3.2.5 Procedure

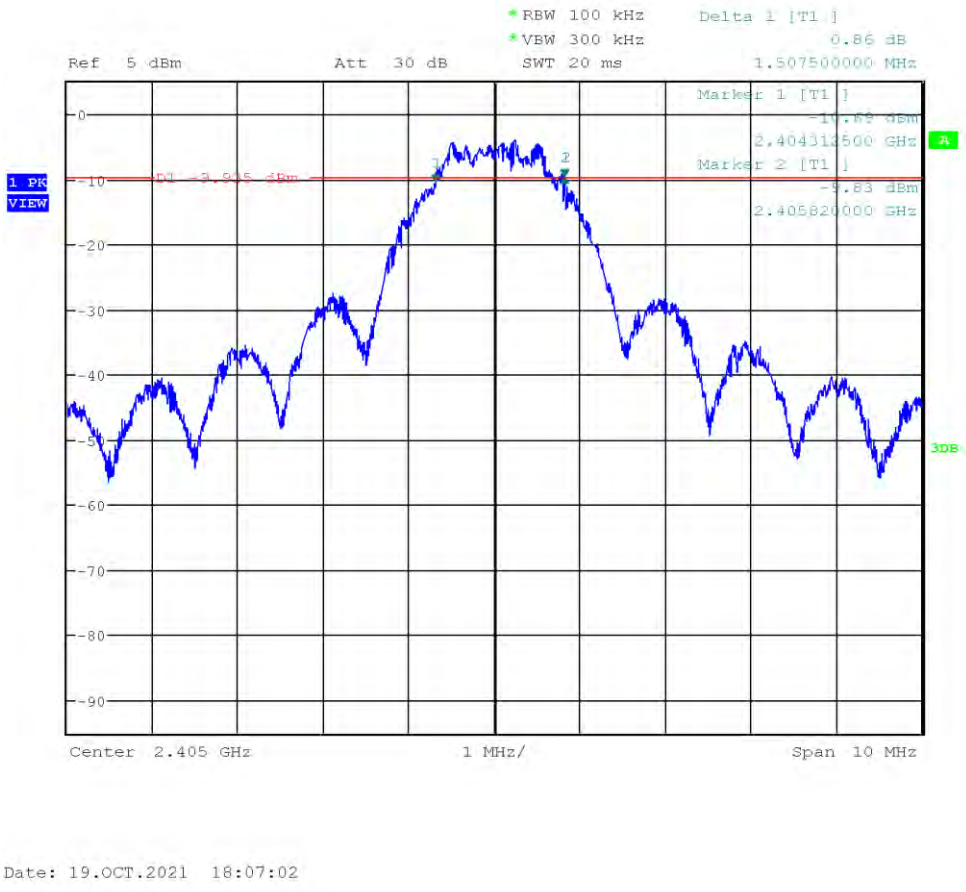
Test Procedure
1. EUT set to test mode 2. Span set to at least twice the emission spectrum 3. Detector set to peak and max hold and RBW is set to 100 kHz 4. Envelope peak value of emission spectrum is selected 5. Marker on envelope of spectrum is set to level of -6 dB to the left of the peak 6. Marker on envelope of spectrum is set to level of -6 dB to the right of the peak 7. 6 dB Bandwidth is determined by marker frequency separation

3.2.6 Results

Test Results				
Mode	Frequency [MHz]	Bandwidth [kHz]	Limit [kHz]	Verdict
DSSS O-QPSK A0	2405	1507.5	500	PASS
DSSS O-QPSK A0	2440	1455.0	500	PASS
DSSS O-QPSK A0	2470	1567.5	500	PASS
DSSS O-QPSK A1	2405	1490.0	500	PASS
DSSS O-QPSK A1	2440	1447.5	500	PASS
DSSS O-QPSK A1	2470	1495.0	500	PASS

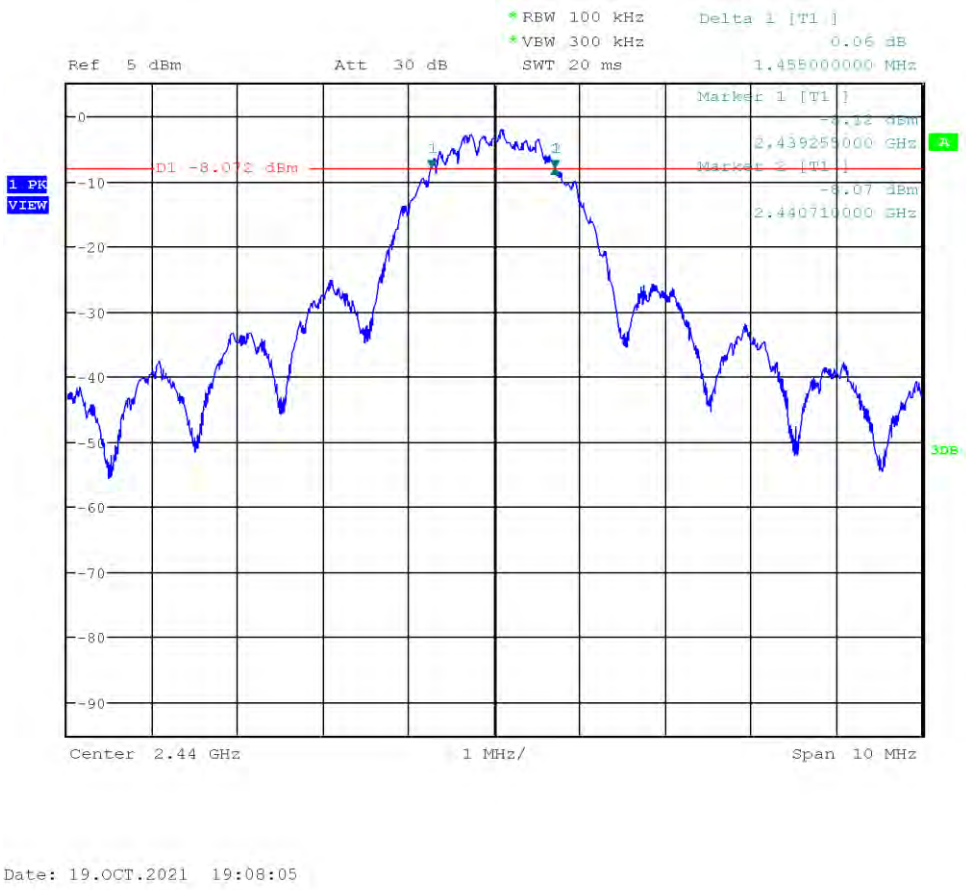
DTS (6 dB) Bandwidth

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	DSSS O-QPSK A0, Channel: 11, 2405 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Lower Frequency [MHz]:	2404.312
Upper Frequency [MHz]:	2405.820
6 dB Bandwidth [kHz]:	1507.5



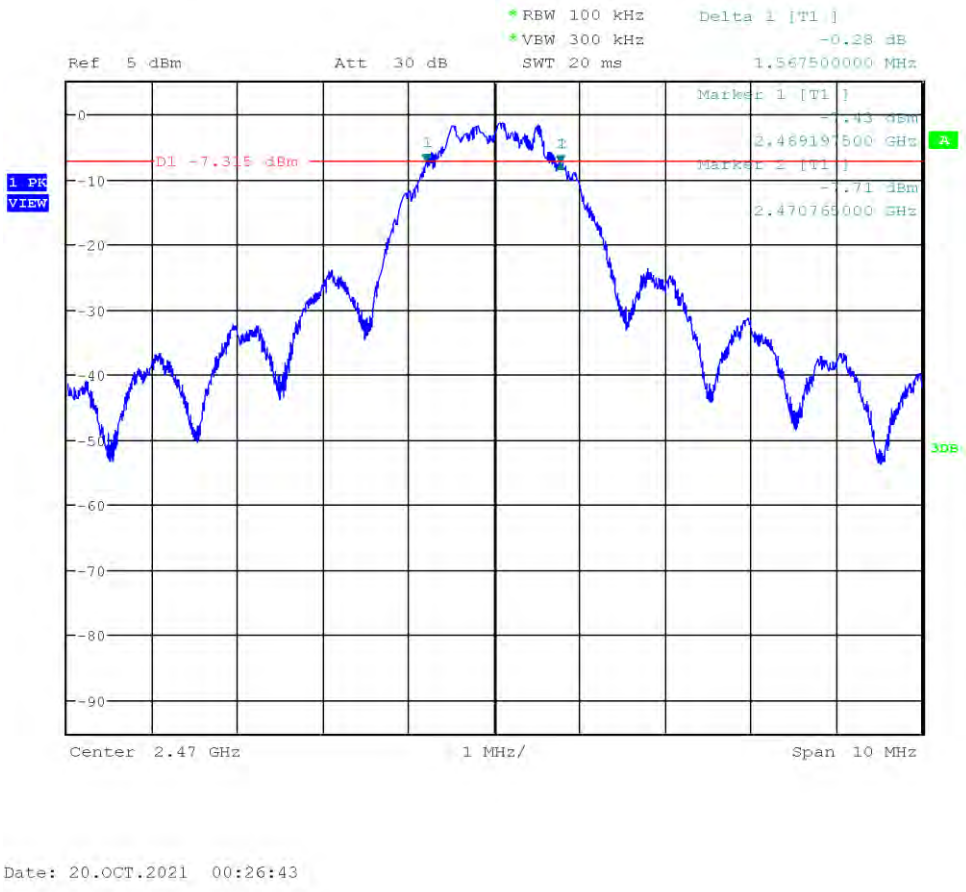
DTS (6 dB) Bandwidth

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	DSSS O-QPSK A0, Channel: 18, 2440 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Lower Frequency [MHz]:	2439.255
Upper Frequency [MHz]:	2440.710
6 dB Bandwidth [kHz]:	1455.0



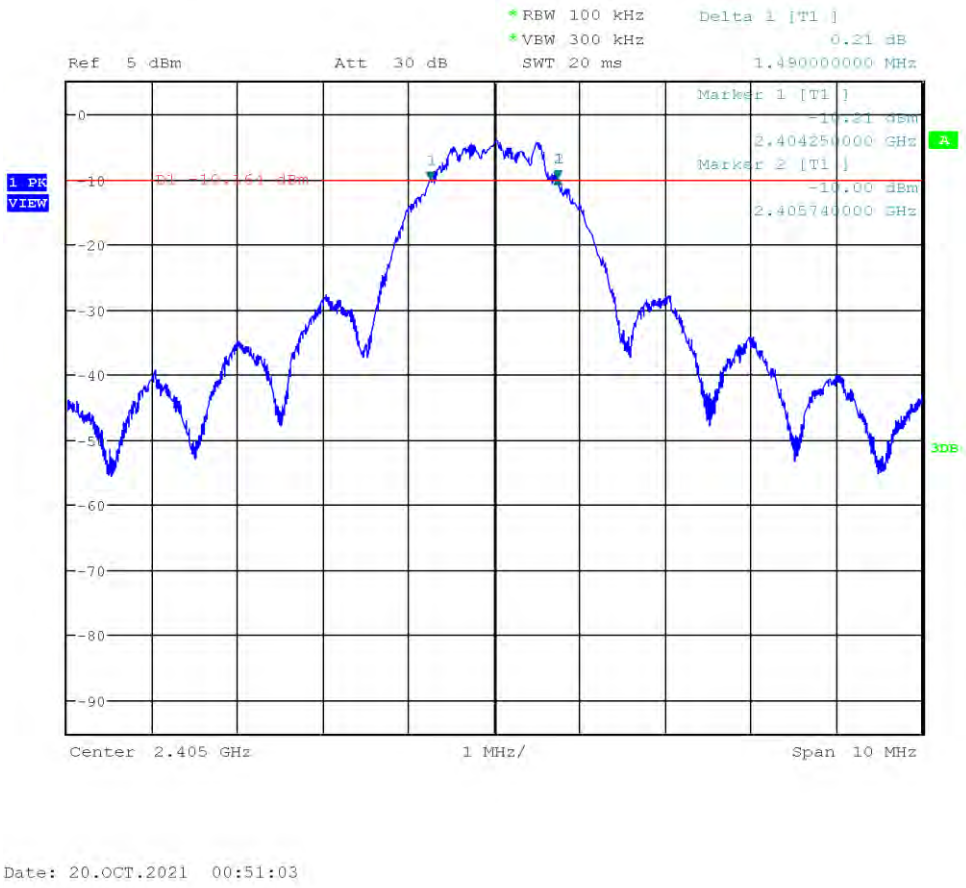
DTS (6 dB) Bandwidth

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	DSSS O-QPSK A0, Channel: 24, 2470 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Lower Frequency [MHz]:	2469.198
Upper Frequency [MHz]:	2470.765
6 dB Bandwidth [kHz]:	1567.5



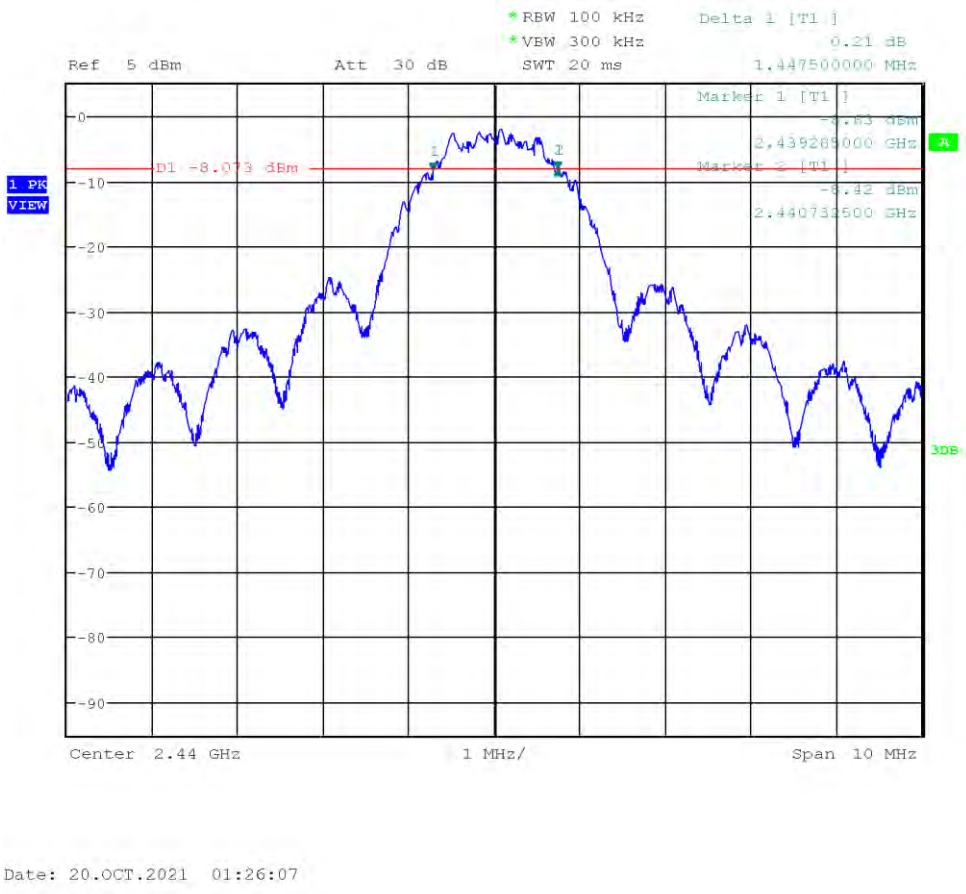
DTS (6 dB) Bandwidth

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	DSSS O-QPSK A1, Channel: 11, 2405 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Lower Frequency [MHz]:	2404.250
Upper Frequency [MHz]:	2405.740
6 dB Bandwidth [kHz]:	1490.0



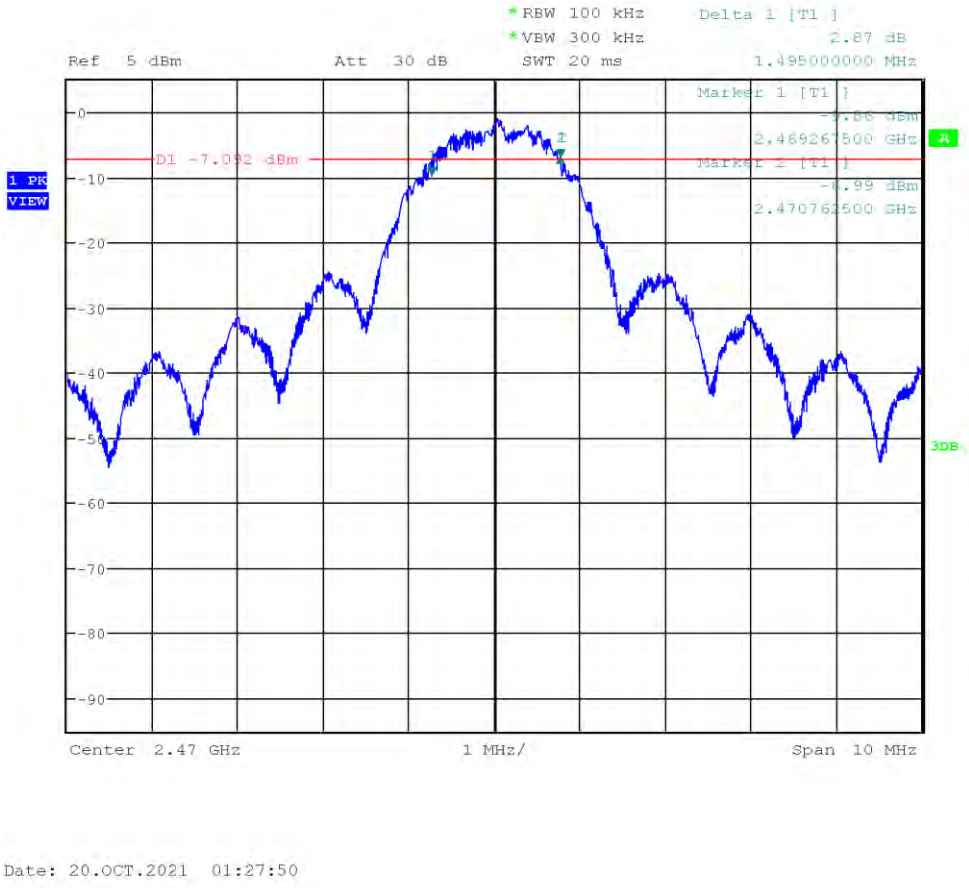
DTS (6 dB) Bandwidth

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	DSSS O-QPSK A1, Channel: 18, 2440 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Lower Frequency [MHz]:	2439.285
Upper Frequency [MHz]:	2440.733
6 dB Bandwidth [kHz]:	1447.5



DTS (6 dB) Bandwidth

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	DSSS O-QPSK A1, Channel: 24, 2470 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Lower Frequency [MHz]:	2469.267
Upper Frequency [MHz]:	2470.762
6 dB Bandwidth [kHz]:	1495.0



3.3 Test Conditions and Results - Maximum peak conducted output power

3.3.1 Information

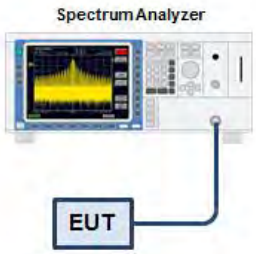
Test Information	
Reference	FCC § 15.247(b); ISED RSS-247, Issue 2 (section 5.4)
Measurement Method	ANSI C63.10 11.9.1
Measurement Uncertainty	± 2.86 dB
Operator	Florian Voigt
Date	2021-10-19

3.3.2 Limits

Limits
1 W (30 dBm)
The conducted output power limit specified above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in the table, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.3 Setup

Test Setup



3.3.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01709	2021-02	2022-02
Cable (diverse)	Huber+Suhner	Sucoflex 100	EF00779 CAABQ	2020-12	2021-12

3.3.5 Procedure

Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Analyzer resolution bandwidth is set ≥ DTS bandwidth 3. Detector set to peak and max hold 4. Sweep time is set to auto 5. After the trace has stabilized a marker is set to peak of envelope

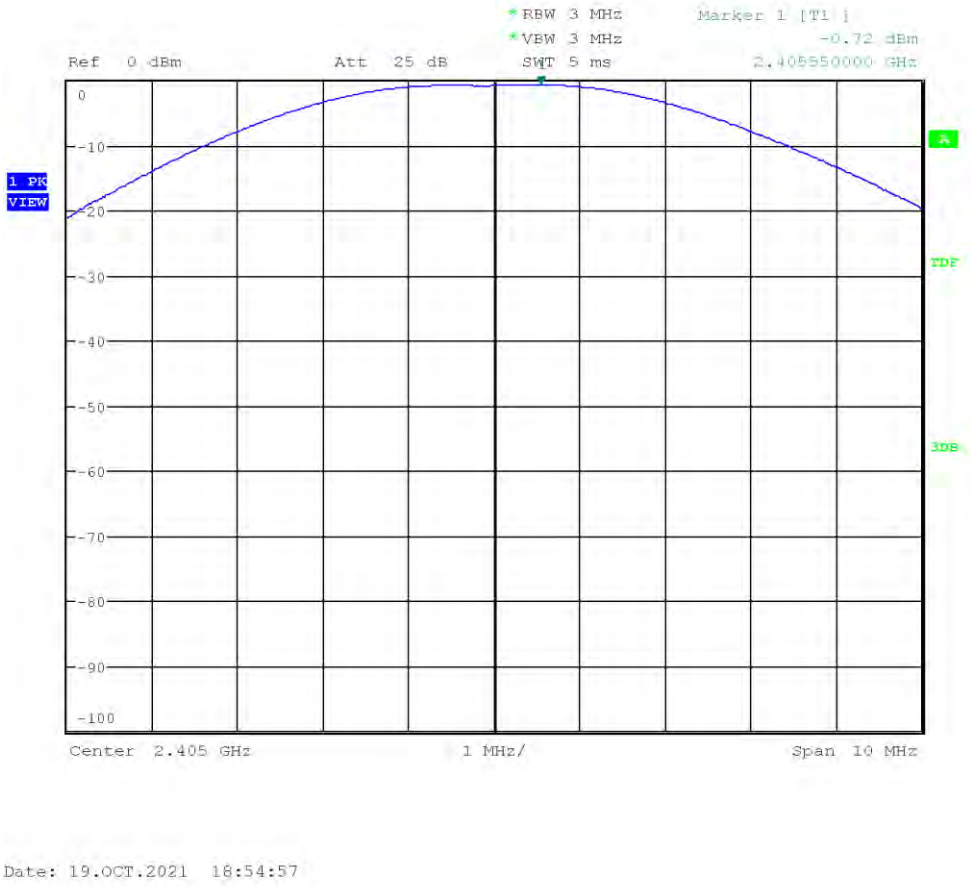
3.3.6 Results

Test Results - DSSS O-QPSK A0				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2405	-0.720	0.000847	1.0	PASS
2440	1.051	0.001274	1.0	PASS
2470	2.356	0.001720	1.0	PASS

Test Results - DSSS O-QPSK A1				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2405	-0.321	0.000929	1.0	PASS
2440	1.083	0.001283	1.0	PASS
2470	2.151	0.001641	1.0	PASS

Peak Conducted Output Power

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.9.1.1
Operational Mode:	DSSS O-QPSK A0, Channel: 11, 2405 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Peak Power [dBm]:	-0.720
Peak Power [W]:	0.000847



Peak Conducted Output Power

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.9.1.1
Operational Mode:	DSSS O-QPSK A0, Channel: 18, 2440 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Peak Power [dBm]:	1.051
Peak Power [W]:	0.001274

Peak Conducted Output Power

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.9.1.1
Operational Mode:	DSSS O-QPSK A0, Channel: 24, 2470 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Peak Power [dBm]:	2.356
Peak Power [W]:	0.001720

Peak Conducted Output Power

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.9.1.1
Operational Mode:	DSSS O-QPSK A1, Channel: 11, 2405 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Peak Power [dBm]:	-0.321
Peak Power [W]:	0.000929

Peak Conducted Output Power

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.9.1.1
Operational Mode:	DSSS O-QPSK A1, Channel: 18, 2440 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Peak Power [dBm]:	1.083
Peak Power [W]:	0.001283

Peak Conducted Output Power

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.9.1.1
Operational Mode:	DSSS O-QPSK A1, Channel: 24, 2470 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Peak Power [dBm]:	2.151
Peak Power [W]:	0.001641

3.4 Test Conditions and Results - Power spectral density

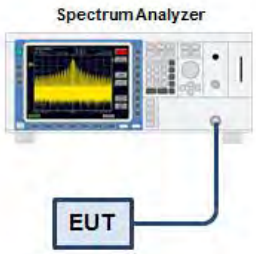
3.4.1 Information

Test Information	
Reference	FCC § 15.247(e); ISED RSS-247, Issue 2 (section 5.2)
Measurement Method	ANSI C63.10 11.10.2, 14.3.2
Measurement Uncertainty	± 2.86 dB
Operator	Florian Voigt
Date	2021-10-19

3.4.2 Limits

Limits
8 dBm / 3 kHz

3.4.3 Setup

Test Setup


3.4.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01709	2021-02	2022-02
Cable (diverse)	Huber+Suhner	Sucoflex 100	EF00779 CAABQ	2020-12	2021-12

3.4.5 Procedure

Test Procedure
1. EUT set to test mode 2. The analyzer is set to DTS channel center frequency with a span of 1.5 times the DTS bandwidth 3. The RBW is set to 100 kHz with VBW ≥ RBW and the detector is set to peak with max hold 4. After the trace has stabilized a marker is set to the envelope maximum 5. If the power spectral density is above the limit the RBW is reduced (not lower than 3 kHz) and the measurement is repeated 6. If the EUT has more than one transmit chain the procedure is repeated for each transmit chain

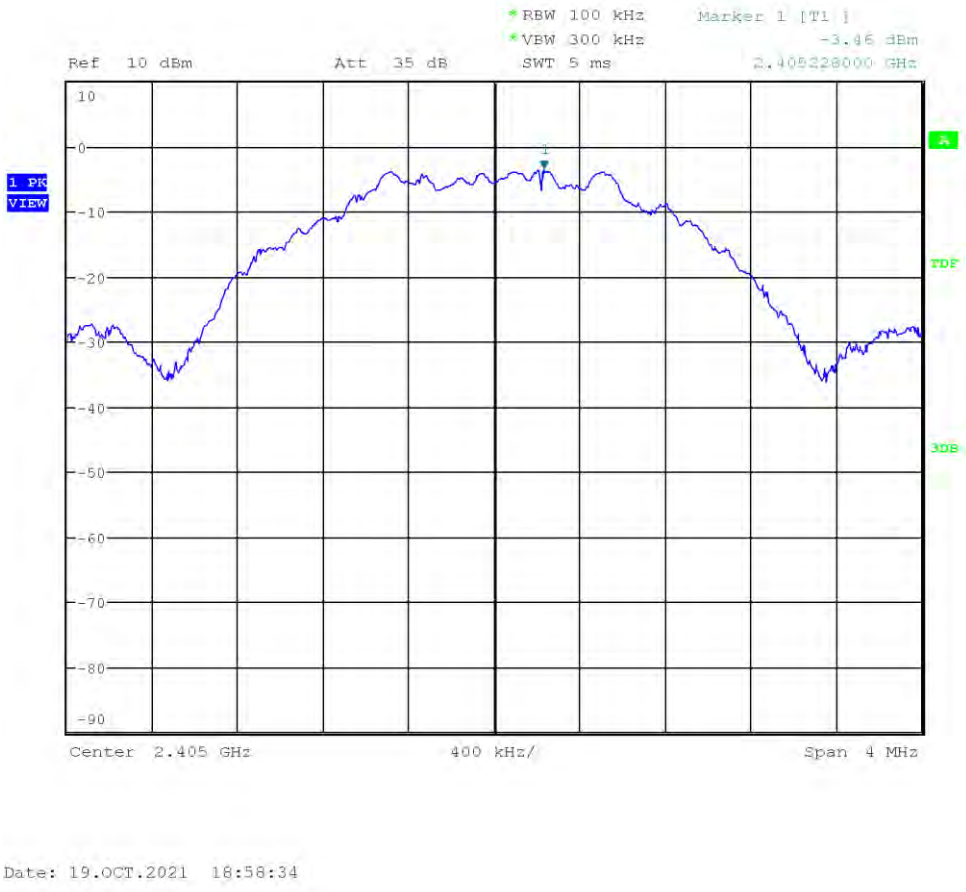
3.4.6 Results

Test Results - DSSS O-QPSK A0			
Channel [MHz]	PSD [dBm/RBW]	Limit [dBm/3kHz]	Verdict
2405	-3.461	8.0	PASS
2440	-1.442	8.0	PASS
2470	-0.696	8.0	PASS
RBW = 100 kHz			

Test Results - DSSS O-QPSK A1			
Channel [MHz]	PSD [dBm/RBW]	Limit [dBm/3kHz]	Verdict
2405	-3.477	8.0	PASS
2440	-1.376	8.0	PASS
2470	-0.403	8.0	PASS
RBW = 100 kHz			

Peak Power Spectral Density

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.10.2
Operational Mode:	DSSS O-QPSK A0, Channel: 11, 2405 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Peak Frequency [MHz]:	2405.228
Spectral Density [dBm/RBW]:	-3.461
Resolution Bandwidth [kHz]:	100 kHz



Peak Power Spectral Density

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.10.2
Operational Mode:	DSSS O-QPSK A0, Channel: 18, 2440 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Peak Frequency [MHz]:	2440.092
Spectral Density [dBm/RBW]:	-1.442
Resolution Bandwidth [kHz]:	100 kHz

Peak Power Spectral Density

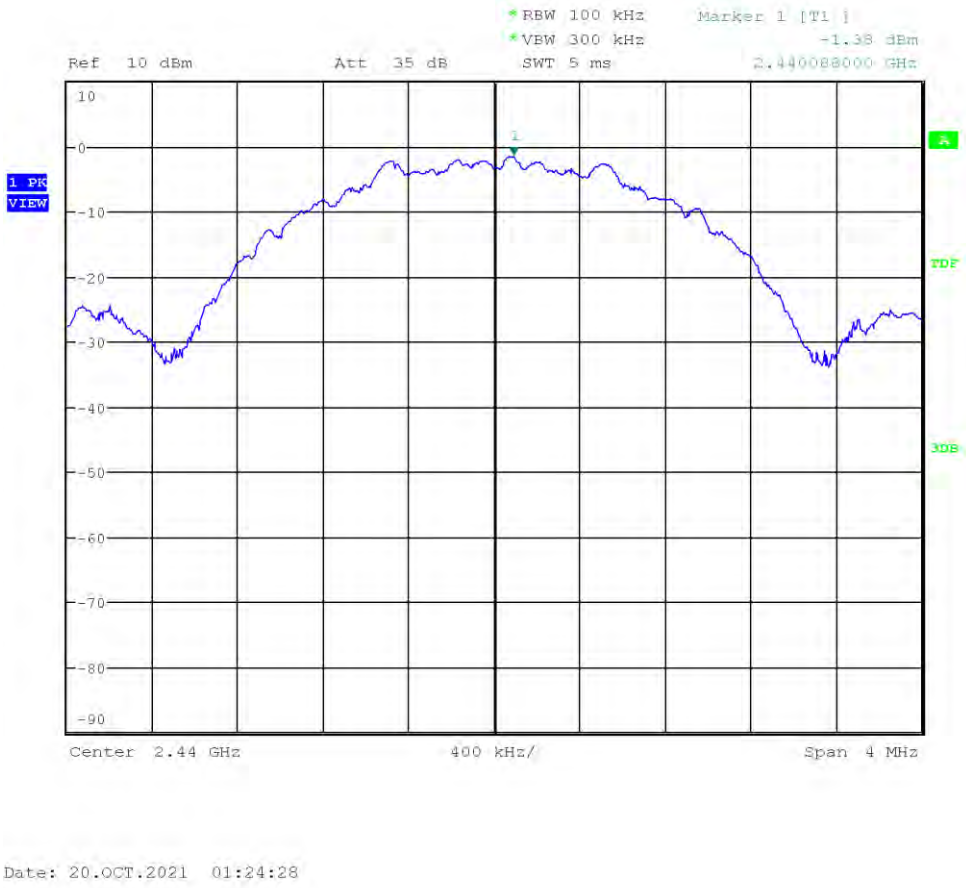
Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.10.2
Operational Mode:	DSSS O-QPSK A0, Channel: 24, 2470 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Peak Frequency [MHz]:	2470.072
Spectral Density [dBm/RBW]:	-0.696
Resolution Bandwidth [kHz]:	100 kHz

Peak Power Spectral Density

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.10.2
Operational Mode:	DSSS O-QPSK A1, Channel: 11, 2405 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Peak Frequency [MHz]:	2405.036
Spectral Density [dBm/RBW]:	-3.477
Resolution Bandwidth [kHz]:	100 kHz

Peak Power Spectral Density

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.10.2
Operational Mode:	DSSS O-QPSK A1, Channel: 18, 2440 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Peak Frequency [MHz]:	2440.088
Spectral Density [dBm/RBW]:	-1.376
Resolution Bandwidth [kHz]:	100 kHz



Peak Power Spectral Density

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.10.2
Operational Mode:	DSSS O-QPSK A1, Channel: 24, 2470 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Peak Frequency [MHz]:	2470.048
Spectral Density [dBm/RBW]:	-0.403
Resolution Bandwidth [kHz]:	100 kHz

3.5 Test Conditions and Results - Band-edge compliance

3.5.1 Information

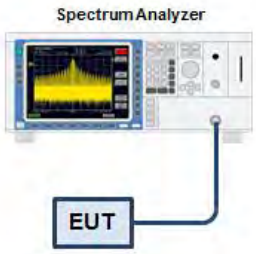
Test Information	
Reference	FCC § 15.247(d); ISED RSS-247, Issue 2 (section 5.5)
Measurement Uncertainty	± 3.64 dB
Measurement Method	ANSI C63.10 11.13
Operator	Florian Voigt
Date	2021-10-19

3.5.2 Limits

Limits	
Power Measurement	Out-of-band attenuation [dB]
Peak	20
RMS	30

3.5.3 Setup

Test Setup



3.5.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01709	2021-02	2022-02
Cable (diverse)	Huber+Suhner	Sucoflex 100	EF00779 CAABQ	2020-12	2021-12

3.5.5 Procedure

Test Procedure

1. EUT set to test mode (Communication tester is used if needed)
2. Span set around lower band edge and detector is set to peak and max hold
3. Resolution bandwidth is set to 100 kHz
4. Markers are set to peak emission levels within frequency band and outside frequency band
5. Band edge attenuation is determined from level difference

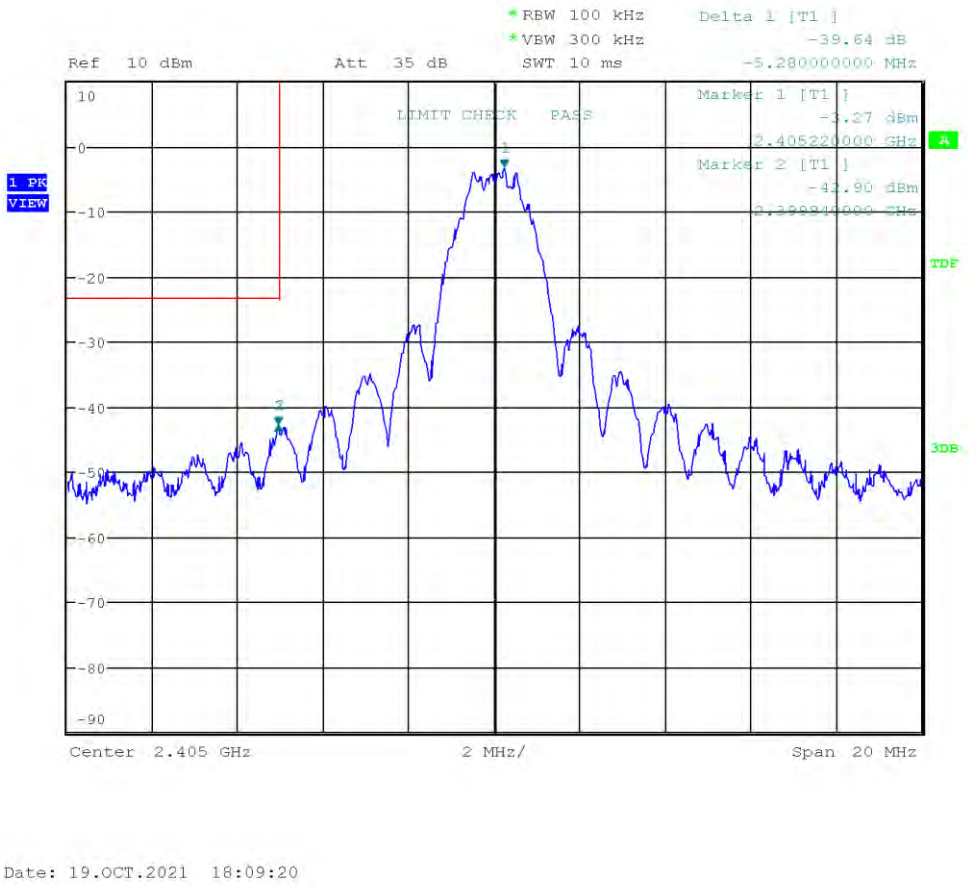
3.5.6 Results

Test Results - DSSS O-QPSK A0				
Mode	Channel [MHz]	Out-of-band Attenuation [dB]	Limit [dB]	Verdict
O-QPSK	2405	-39.63	-20	PASS
O-QPSK	2470	-49.31	-20	PASS

Test Results - DSSS O-QPSK A1				
Mode	Channel [MHz]	Out-of-band Attenuation [dB]	Limit [dB]	Verdict
O-QPSK	2405	-39.83	-20	PASS
O-QPSK	2470	-49.13	-20	PASS

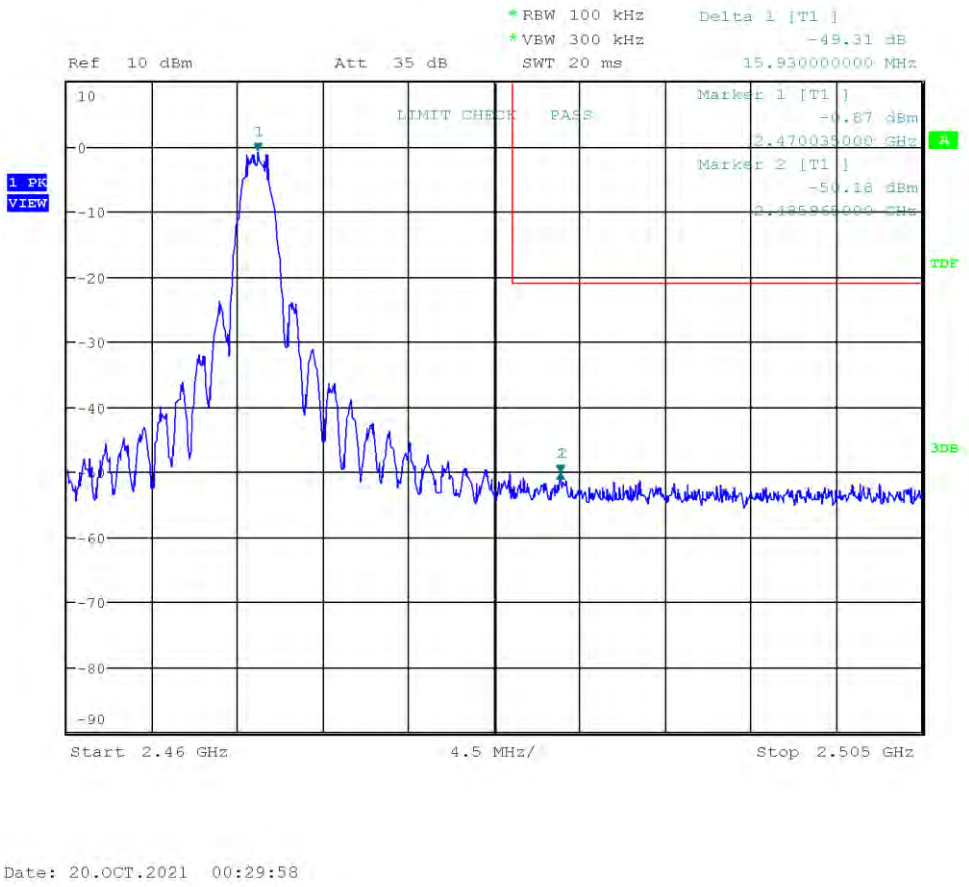
Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	DSSS O-QPSK A0, Channel: 11, 2405 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Band-edge	Lower
In-band Frequency [MHz]:	2405.22
Max. in-band Level [dBm/100 kHz]:	-3.267
Out-of-band Frequency [MHz]:	2399.94
Max. out-of-band Level [dBm/100 kHz]:	-42.902
Attenuation [dB]:	-39.63



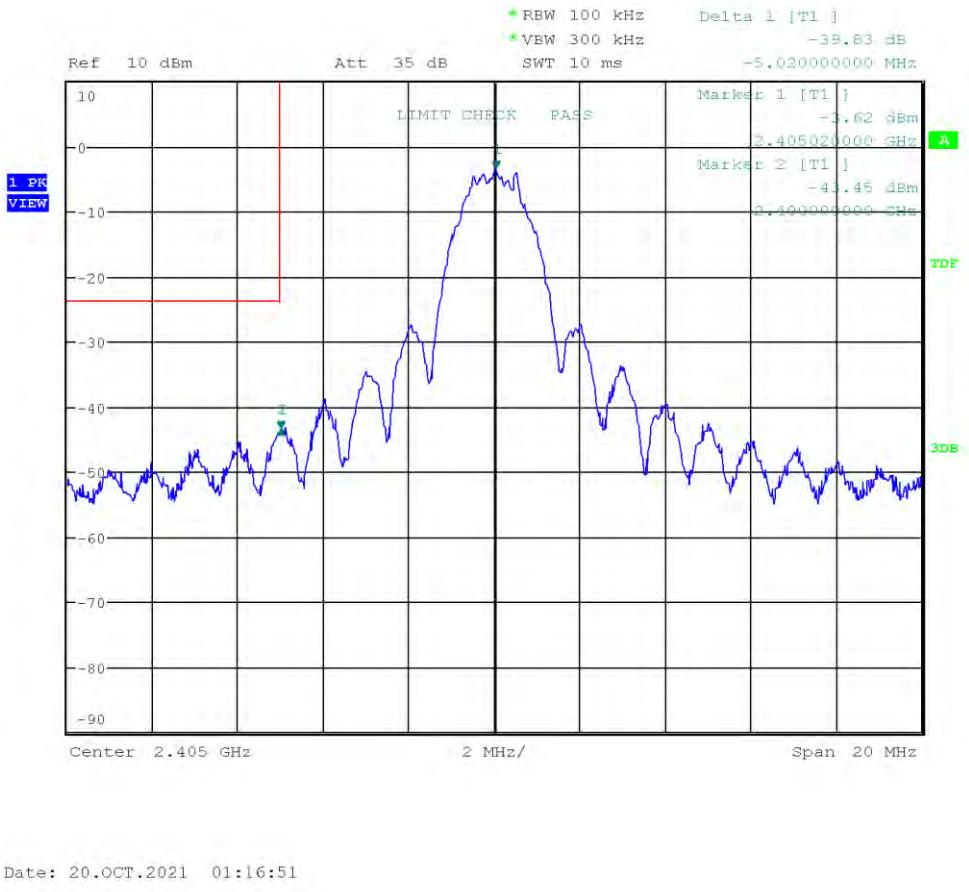
Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	DSSS O-QPSK A0, Channel: 24, 2470 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Band-edge	Upper
In-band Frequency [MHz]:	2470.035
Max. in-band Level [dBm/100 kHz]:	-0.868
Out-of-band Frequency [MHz]:	2485.965
Max. out-of-band Level [dBm/100 kHz]:	-50.179
Attenuation [dB]:	-49.31



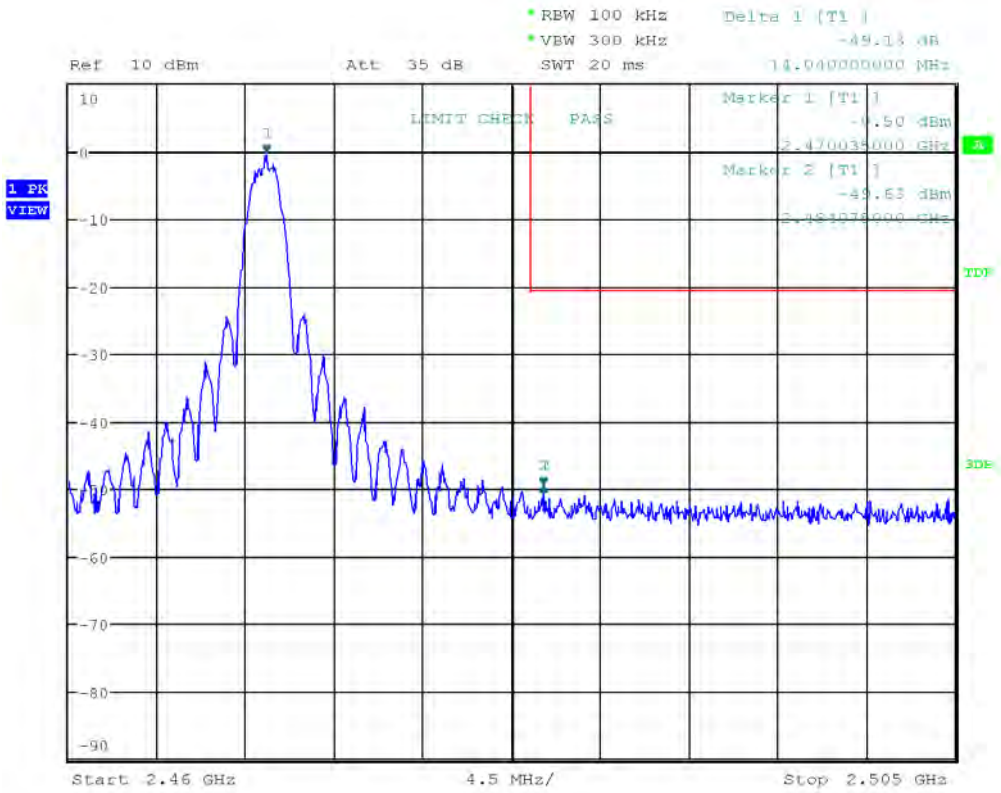
Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	DSSS O-QPSK A1, Channel: 11, 2405 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Band-edge	Lower
In-band Frequency [MHz]:	2405.02
Max. in-band Level [dBm/100 kHz]:	-3.617
Out-of-band Frequency [MHz]:	2400.0
Max. out-of-band Level [dBm/100 kHz]:	-43.45
Attenuation [dB]:	-39.83



Emissions in nonrestricted frequency bands at the Band-edge

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	DSSS O-QPSK A1, Channel: 24, 2470 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Band-edge	Upper
In-band Frequency [MHz]:	2470.035
Max. in-band Level [dBm/100 kHz]:	-0.497
Out-of-band Frequency [MHz]:	2484.075
Max. out-of-band Level [dBm/100 kHz]:	-49.625
Attenuation [dB]:	-49.13



3.6 Test Conditions and Results - Conducted spurious emissions

3.6.1 Information

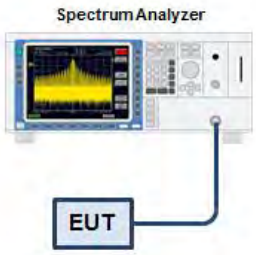
Test Information	
Reference	FCC § 15.247(d); ISED RSS-247, Issue 2 (section 5.5)
Measurement Uncertainty	± 4.25 dB
Measurement Method	ANSI C63.10 11.11
Operator	Florian Voigt
Date	2021-10-19

3.6.2 Limits

Limits	
Power Measurement	Out-of-band attenuation [dB]
Peak	20
RMS	30

3.6.3 Setup

Test Setup



3.6.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01709	2021-02	2022-02
Cable (diverse)	Huber+Suhner	Sucoflex 100	EF00779 CAABQ	2020-12	2021-12

3.6.5 Procedure

Test Procedure

1. EUT set to test mode (Communication tester is used if needed)
2. Span set around lower band edge and detector is set to peak and max hold
3. Resolution bandwidth is set to 100 kHz
4. Markers are set to peak emission levels outside frequency band

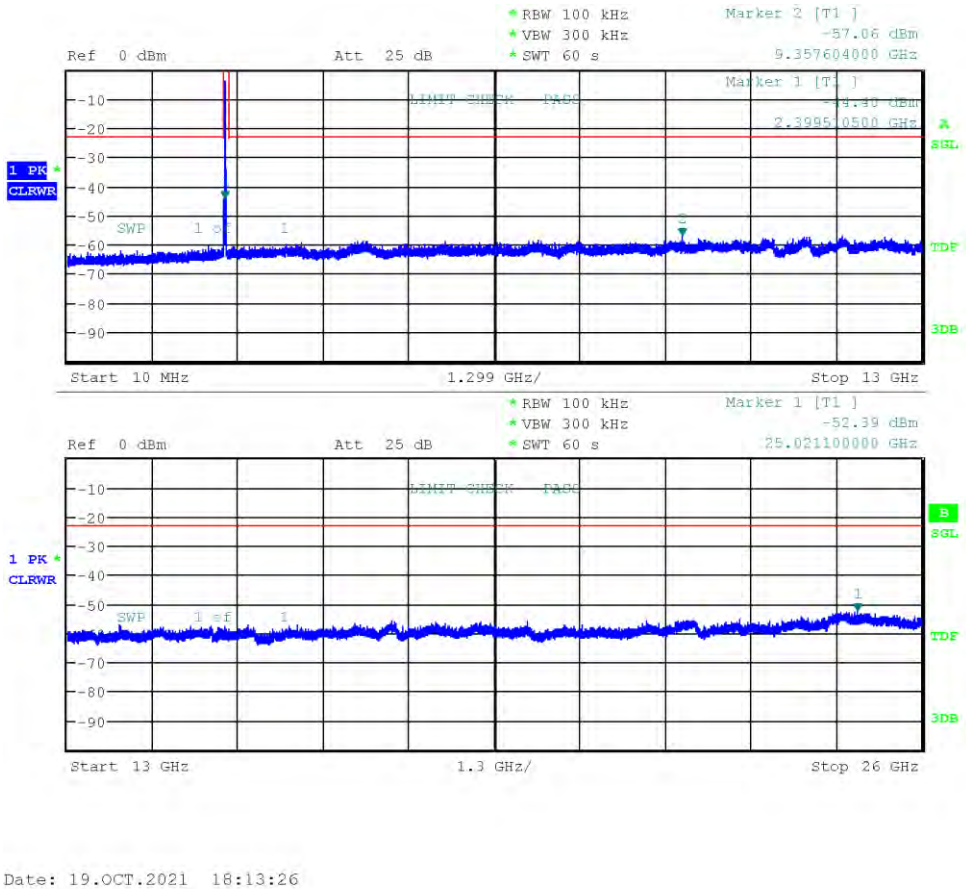
3.6.6 Results

Test Results - DSSS O-QPSK A0		
Mode	Channel [MHz]	Verdict
O-QPSK	2405	PASS
O-QPSK	2440	PASS
O-QPSK	2470	PASS

Test Results - DSSS O-QPSK A1		
Mode	Channel [MHz]	Verdict
O-QPSK	2405	PASS
O-QPSK	2440	PASS
O-QPSK	2470	PASS

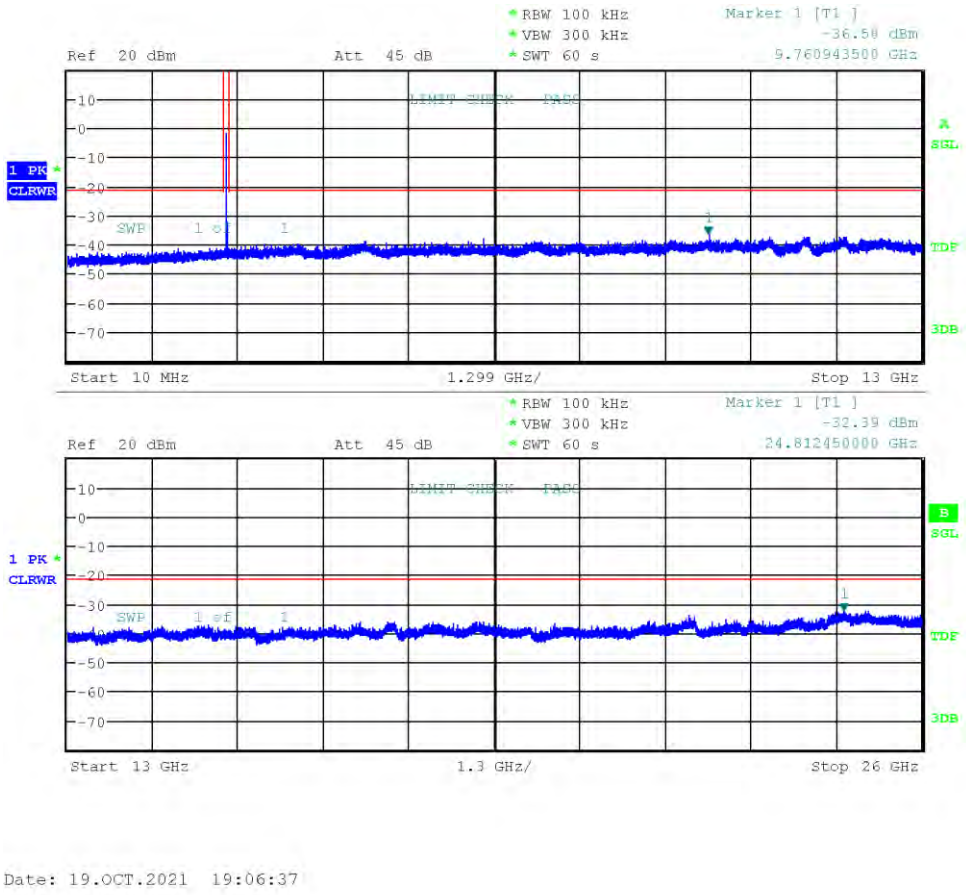
Conducted Spurious Emissions

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	DSSS O-QPSK A0, Channel: 11, 2405 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Max. in-band Frequency [MHz]:	2405.2
Max. in-band Level [dBm/100 kHz]:	-3.3
Out-of-band Limit [dBm/100 kHz]:	-23.3



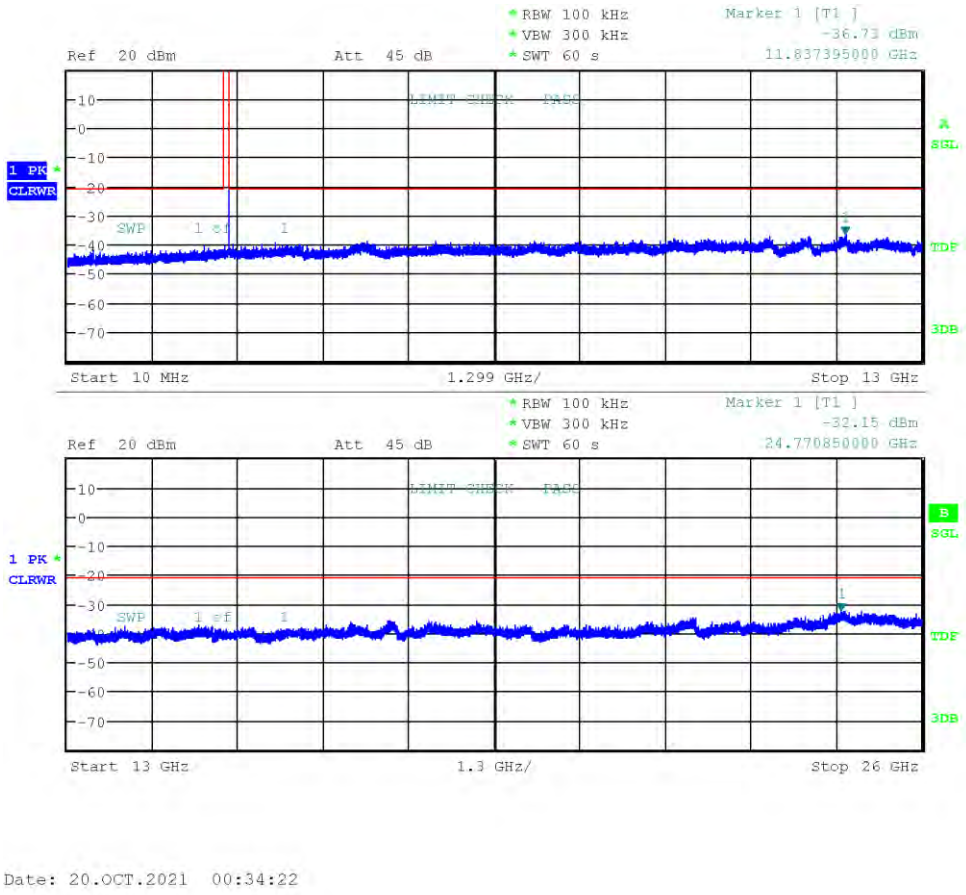
Conducted Spurious Emissions

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	DSSS O-QPSK A0, Channel: 18, 2440 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Max. in-band Frequency [MHz]:	2440.1
Max. in-band Level [dBm/100 kHz]:	-1.5
Out-of-band Limit [dBm/100 kHz]:	-21.5



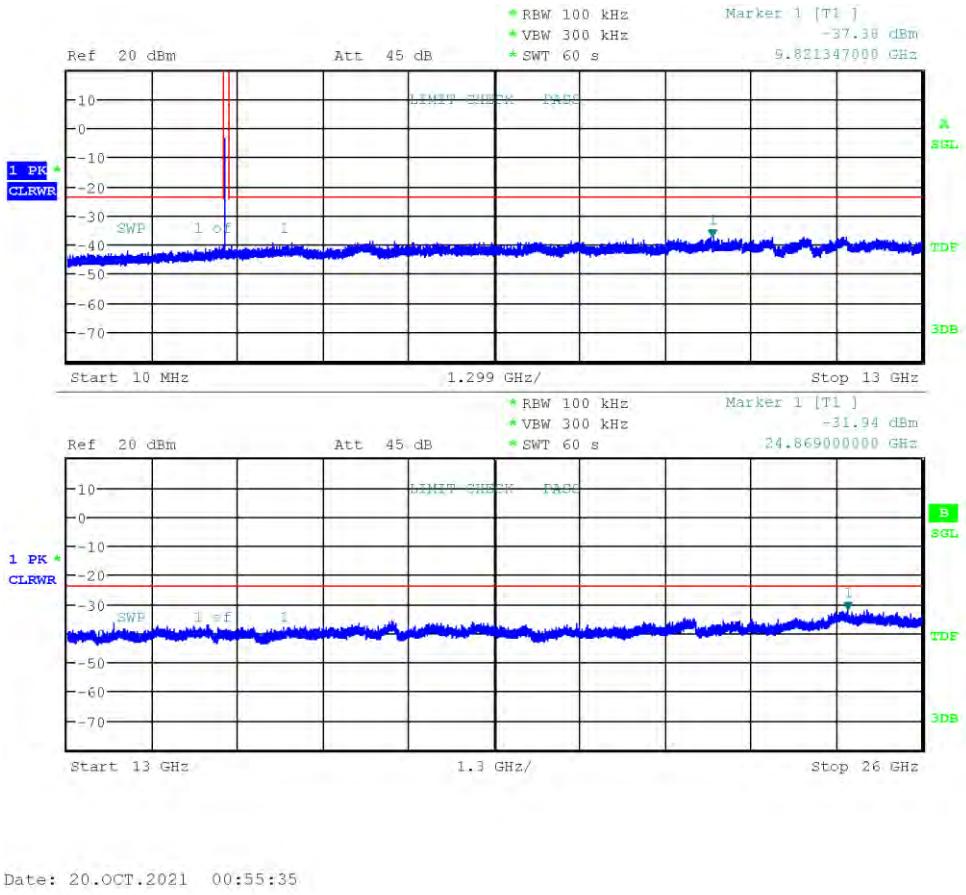
Conducted Spurious Emissions

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	DSSS O-QPSK A0, Channel: 24, 2470 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Max. in-band Frequency [MHz]:	2470.1
Max. in-band Level [dBm/100 kHz]:	-0.7
Out-of-band Limit [dBm/100 kHz]:	-20.7



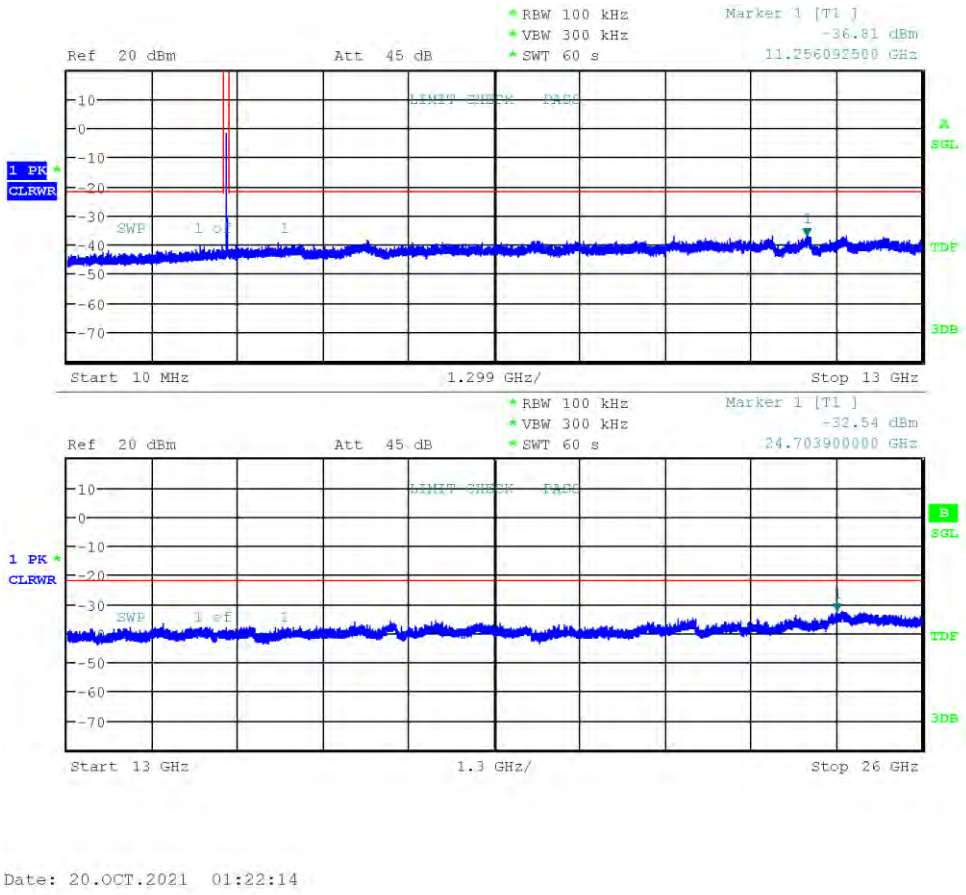
Conducted Spurious Emissions

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	DSSS O-QPSK A1, Channel: 11, 2405 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Max. in-band Frequency [MHz]:	2405.0
Max. in-band Level [dBm/100 kHz]:	-3.5
Out-of-band Limit [dBm/100 kHz]:	-23.5



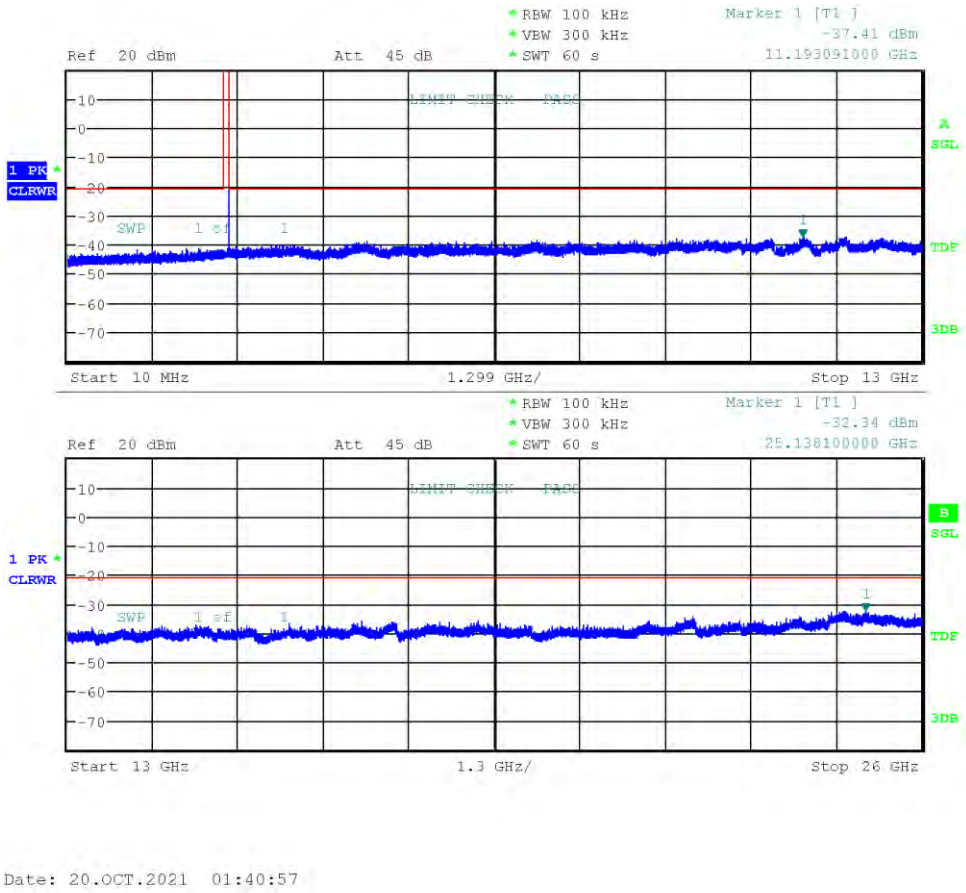
Conducted Spurious Emissions

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	DSSS O-QPSK A1, Channel: 18, 2440 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Max. in-band Frequency [MHz]:	2440.1
Max. in-band Level [dBm/100 kHz]:	-1.7
Out-of-band Limit [dBm/100 kHz]:	-21.7



Conducted Spurious Emissions

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT 2
Test Sample ID:	33685
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.11
Operational Mode:	DSSS O-QPSK A1, Channel: 24, 2470 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Florian Voigt
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-10-19
Max. in-band Frequency [MHz]:	2470.0
Max. in-band Level [dBm/100 kHz]:	-0.5
Out-of-band Limit [dBm/100 kHz]:	-20.5



3.7 Test Conditions and Results - Transmitter radiated emissions

3.7.1 Information

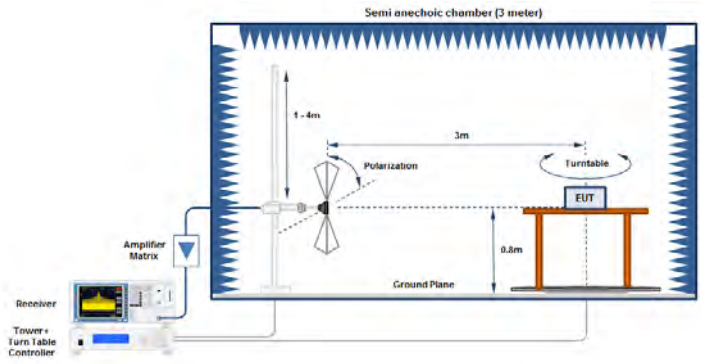
Test Information	
Reference	FCC § 15.247(d); FCC § 15.209; ISED RSS-Gen, Issue 5 (section 6.13)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.10 6.4, 6.5, 6.6, 11.12
Operator	Florian Voigt
Date	2021-06-30 - 2021-10-14

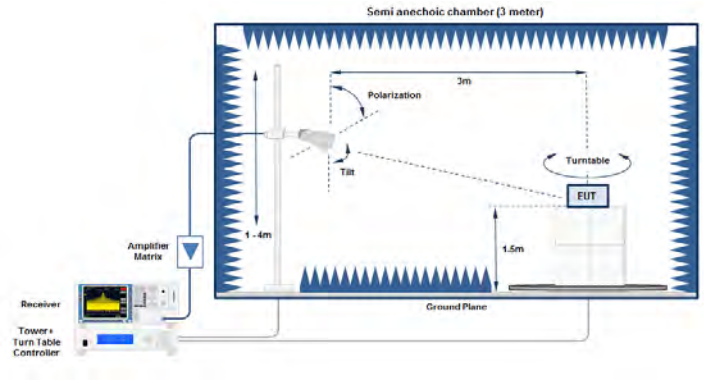
3.7.2 Limits

Limits			
Frequency range [MHz]	Detector	Field strength [µV/m]	Measurement distance [m]
0.009 - 0.09	Average	2400/F[kHz]	300
0.09 - 0.110	Quasi-Peak	2400/F[kHz]	300
0.110 - 0.490	Average	2400/F[kHz]	300
0.490 - 1.705	Quasi-Peak	24000/F[kHz]	30
1.705 - 30.0	Quasi-Peak	30	30
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.7.3 Setup

Test Setup 30 MHz - 1000 MHz



Test Setup > 1 GHz


3.7.4 Equipment

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

Test Equipment 30 MHz - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2021-02	2024-02
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2020-07	2021-07
Antenna	R&S	HK 116	EF00030	2021-05	2024-05
Antenna	R&S	HL 223	EF00187	2019-05	2022-05

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2021-02	2024-02
Anechoic Chamber	Frankonia	AC2	EF01616	2021-05	2022-05
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2020-07	2021-07
Spectrum analyzer	R&S	FSU43	EF01631	2021-07	2022-07
Antenna	Schwarzbeck	BBHA 9120D	EF00018	2019-10	2022-10
Antenna	Schwarzbeck	BBHA 9120B	EF01678	2021-03	2022-03
Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2022-03
Antenna	Amplifier Research	ATH18G40	EF01152	2020-11	2022-11
Antenna	Amplifier Research	AT4560	EF00302	2021-06	2023-06

3.7.5 Procedure

Test Procedure 30 MHz - 1000 MHz
1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground
2. EUT set to test mode
3. The receiver is set to peak detection with max hold
4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5. All significant emissions are measured again using the corresponding final detector

Test Procedure > 1 GHz
1. EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground
2. EUT set to test mode
3. The receiver is set to peak detection with max hold
4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5. All significant emissions are measured again using the corresponding final detector

3.7.6 Results

Test Results - DSSS O-QPSK A0						
Channel [MHz]	Emission [MHz]	Level [dBµV/m]	Det.	Pol.	Limit [dBµV/m]	Margin [dB]
2405	2317.8	44.94	pk	ver	74.00	-29.06
2405	2317.8	28.91	avg	ver	54.00	-25.09
2405	4809.2	49.02	pk	ver	74.00	-24.98
2405	4809.2	40.19	avg	ver	54.00	-13.81
2405	4809.3	48.89	pk	hor	74.00	-25.11
2405	4809.3	39.05	avg	hor	54.00	-14.95
2440	4879.1	43.73	pk	hor	74.00	-30.27
2440	4879.1	36.75	avg	hor	54.00	-17.25
2440	7321.3	44.03	pk	ver	74.00	-29.97
2440	7321.3	37.63	avg	ver	54.00	-16.37
2470	2484	44.24	pk	hor	74.00	-29.76
2470	2484	39.31	avg	hor	54.00	-14.69
2470	4941	48.94	pk	hor	74.00	-25.06
2470	4941	41.35	avg	hor	54.00	-12.65
2470	7411	49.57	pk	ver	74.00	-24.43
2470	7411	40.13	avg	ver	54.00	-13.87

Test Results - DSSS O-QPSK A1						
Channel [MHz]	Emission [MHz]	Level [dBµV/m]	Det.	Pol.	Limit [dBµV/m]	Margin [dB]
2405	4811.1	47.63	pk	ver	74.00	-26.37
2405	4811.1	39.83	avg	ver	54.00	-14.17
2440	4880.9	46.44	pk	hor	74.00	-27.56
2440	4880.9	40.07	avg	hor	54.00	-13.93
2440	7318.7	46.12	pk	ver	74.00	-27.88
2440	7318.7	38.68	avg	ver	54.00	-15.32
2470	4941	45.99	pk	hor	74.00	-28.01
2470	4941	39.18	avg	hor	54.00	-14.82
2470	7412	46.24	pk	ver	74.00	-27.76
2470	7412	38.21	avg	ver	54.00	-15.79

3.8 Test Conditions and Results - Receiver radiated emissions

3.8.1 Information

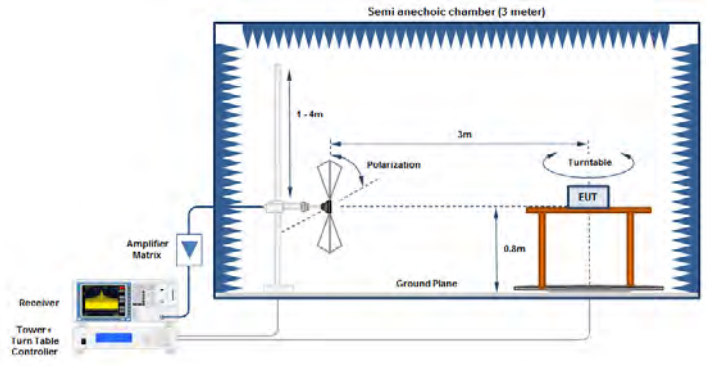
Test Information	
Reference	ISED RSS-247, Issue 2 (section 3.1)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.10 6.5, 6.6, 11.12
Operator	Florian Voigt
Date	2021-06-30

3.8.2 Limits

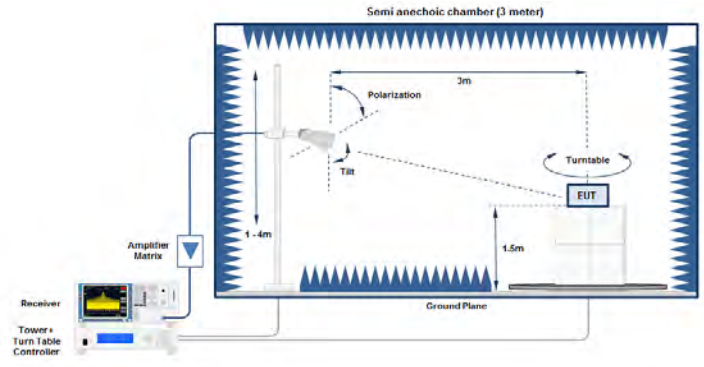
Limits			
Frequency range [MHz]	Detector	Field strength [µV/m]	Measurement distance [m]
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.8.3 Setup

Test Setup 30 MHz - 1000 MHz



Test Setup > 1 GHz



3.8.4 Equipment

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

Test Equipment 30 MHz - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2021-02	2024-02
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2020-07	2021-07
Antenna	R&S	HK 116	EF00030	2021-05	2024-05
Antenna	R&S	HL 223	EF00187	2019-05	2022-05

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2021-02	2024-02
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2020-07	2021-07
Antenna	Schwarzbeck	BBHA 9120D	EF00018	2019-10	2022-10
Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2022-03

3.8.5 Procedure

Test Procedure 30 - 1000 MHz
1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground
2. EUT set to test mode
3. The receiver is set to peak detection with max hold
4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5. All significant emissions are measured again using the corresponding final detector

Test Procedure > 1 GHz
1. EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground
2. EUT set to test mode
3. The receiver is set to peak detection with max hold
4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5. All significant emissions are measured again using the corresponding final detector

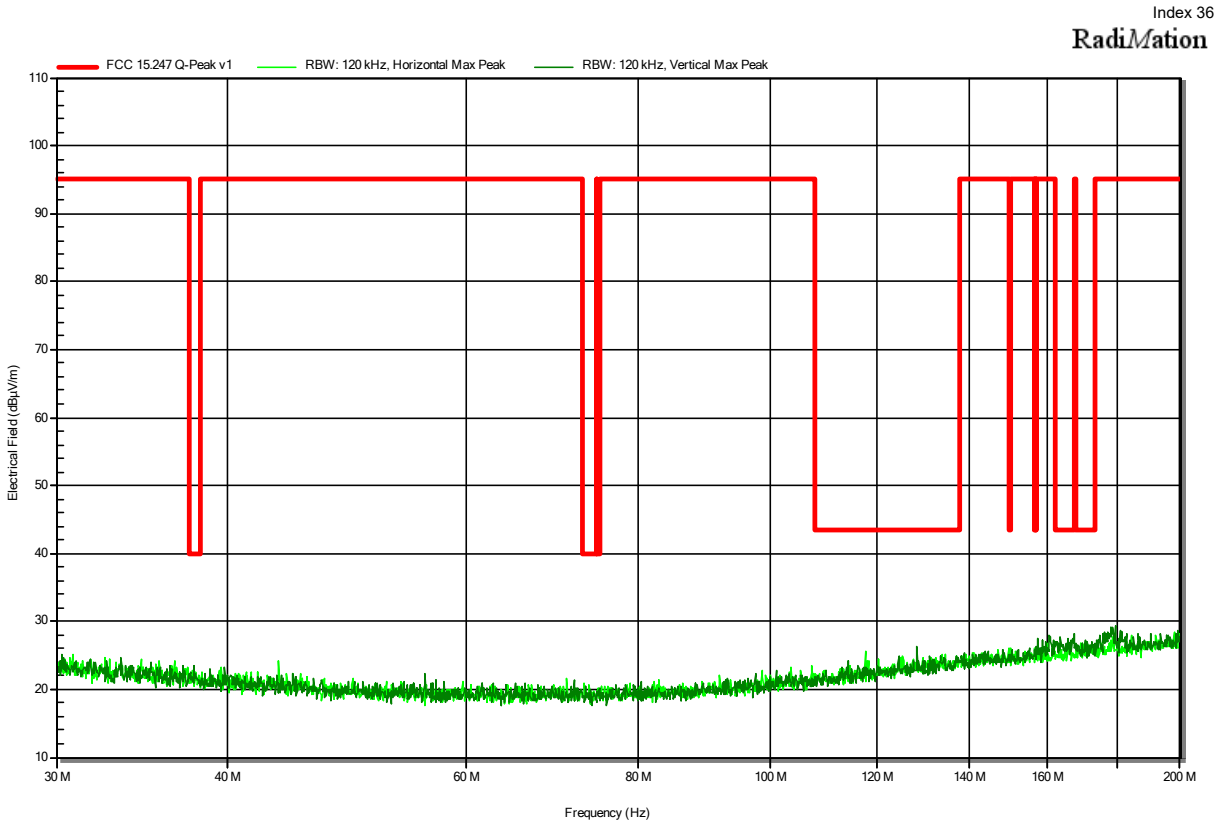
3.8.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dBµV/m]	Det.	Pol.	Limit [dBµV/m]	Margin [dB]
2440	178.8053	29.2	pk	ver	43.5	-14.33

ANNEX A Transmitter spurious emissions

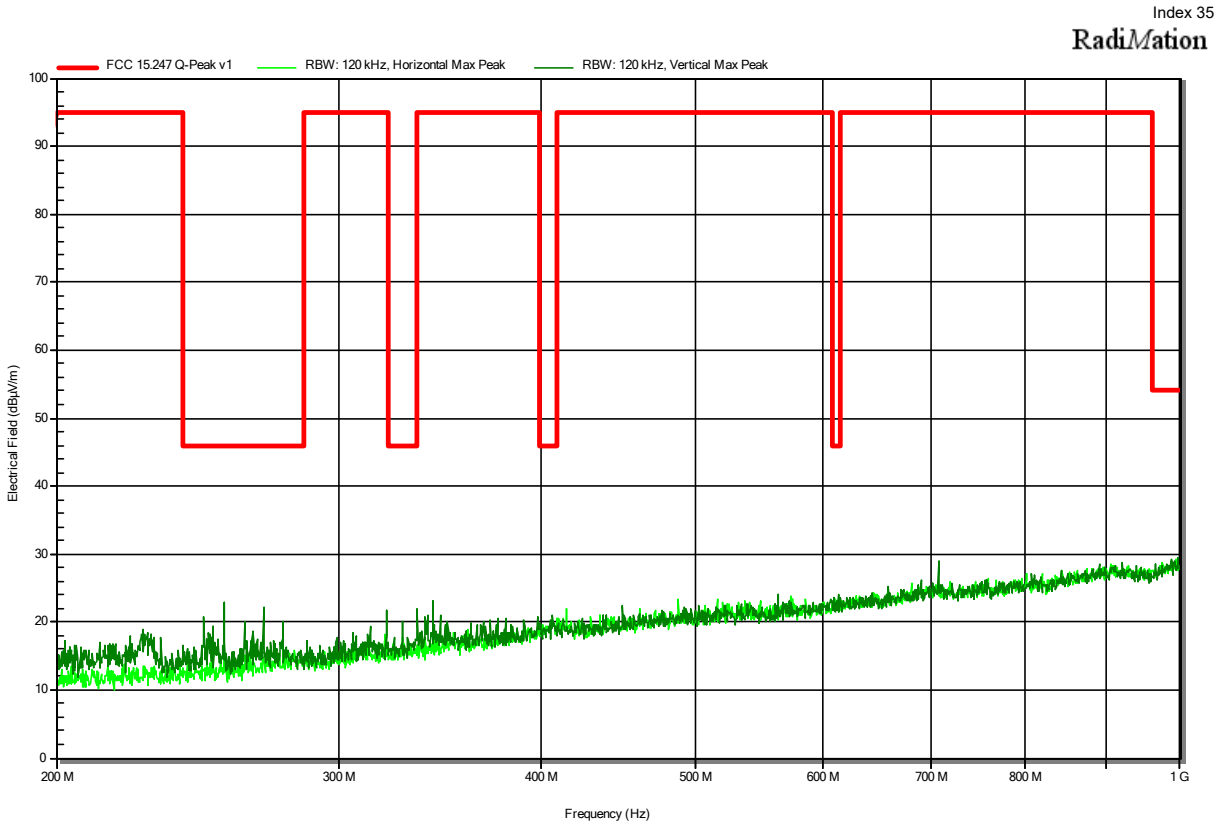
Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Rohde & Schwarz HK 116
Measurement distance:	3 m
Mode:	Tx; 2405MHz, DSSS O-QPSK A0
Test Date:	2021-06-30
Note:	



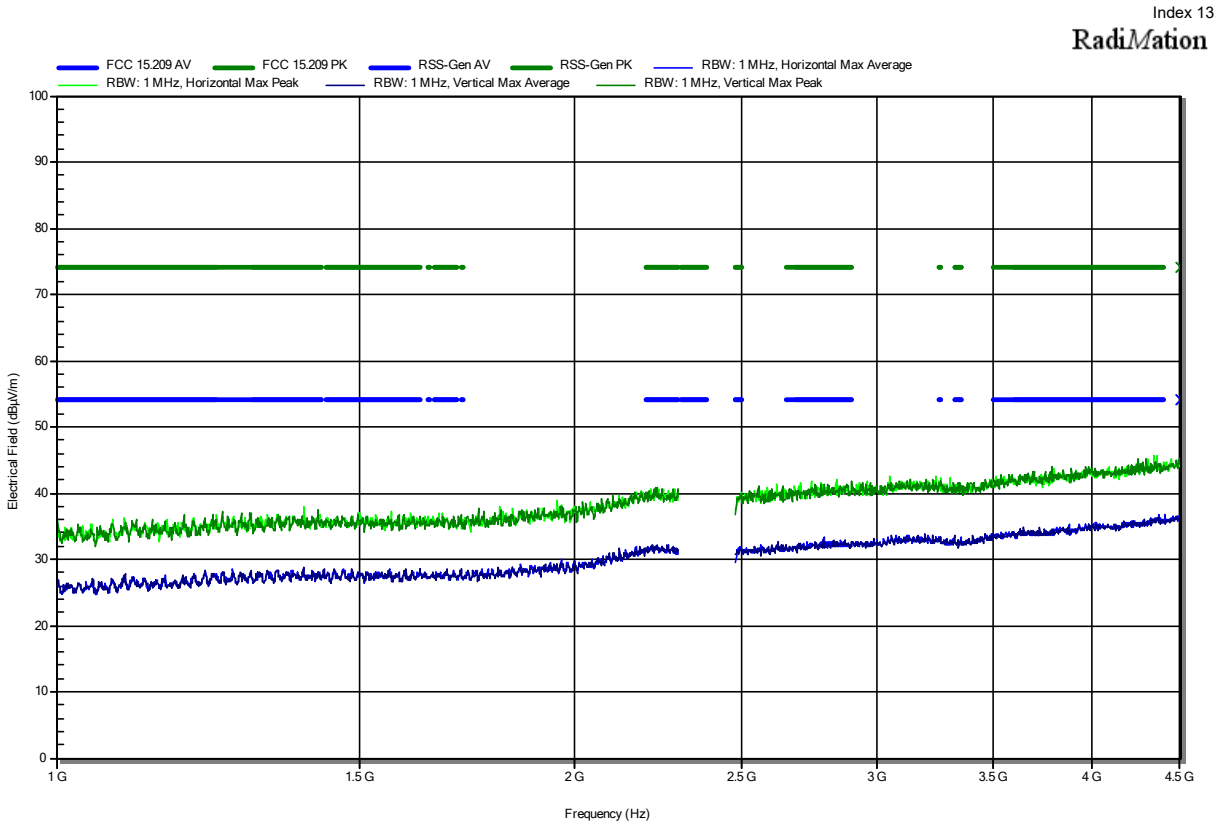
Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Rohde & Schwarz HL 223
Measurement distance:	3 m
Mode:	Tx; 2405MHz, DSSS O-QPSK A0
Test Date:	2021-06-30
Note:	



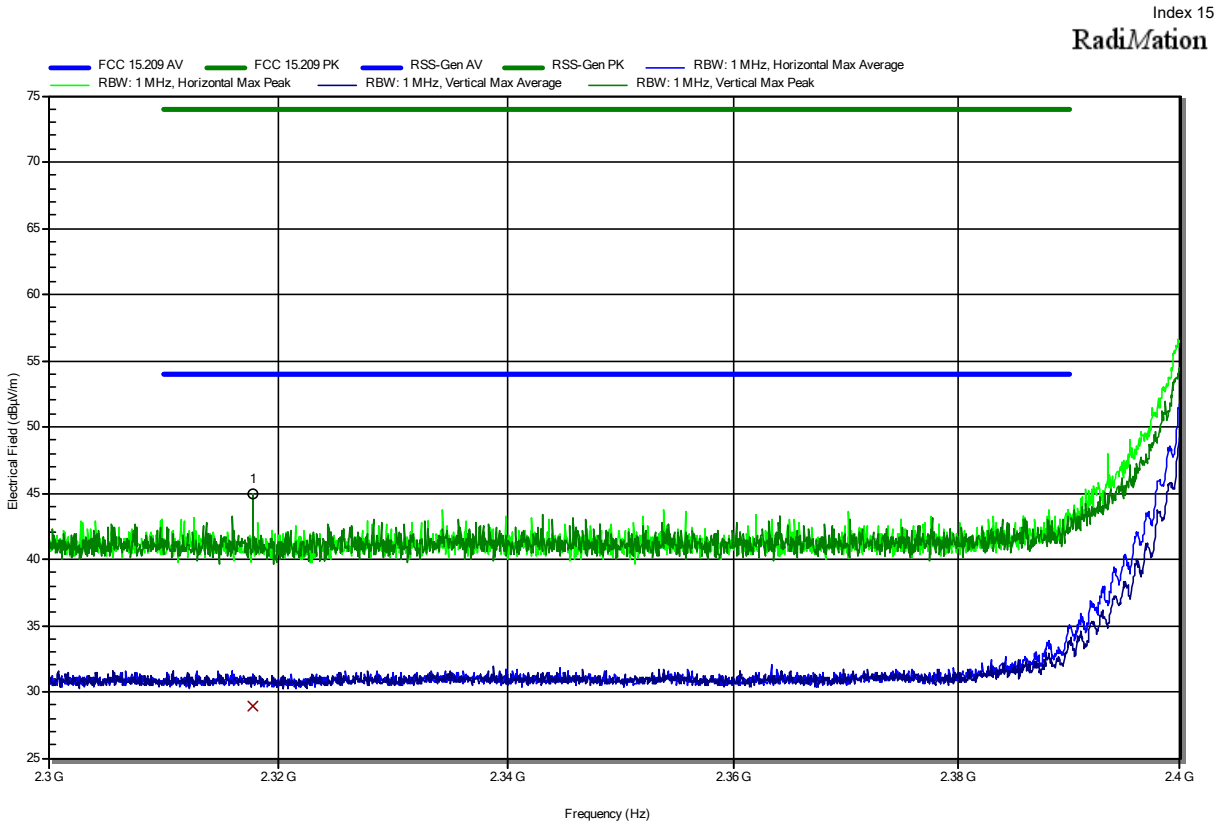
Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Schwarzbeck BBHA 9120D
Measurement distance:	3 m
Mode:	Tx; 2405MHz, DSSS O-QPSK A0
Test Date:	2021-06-30
Note:	



Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Schwarzbeck BBHA 9120D
Measurement distance:	3 m
Mode:	Tx; 2405MHz, DSSS O-QPSK A0
Test Date:	2021-06-30
Note:	lower bandedge



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.3178 GHz	44.94 dBµV/m	74 dBµV/m	-29.06 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.3178 GHz	28.91 dBµV/m	54 dBµV/m	-25.09 dB	Pass	Vertical

Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Schwarzbeck BBHA 9120D
Measurement distance:	3 m
Mode:	Tx; 2405MHz, DSSS O-QPSK A0
Test Date:	2021-06-30
Note:	

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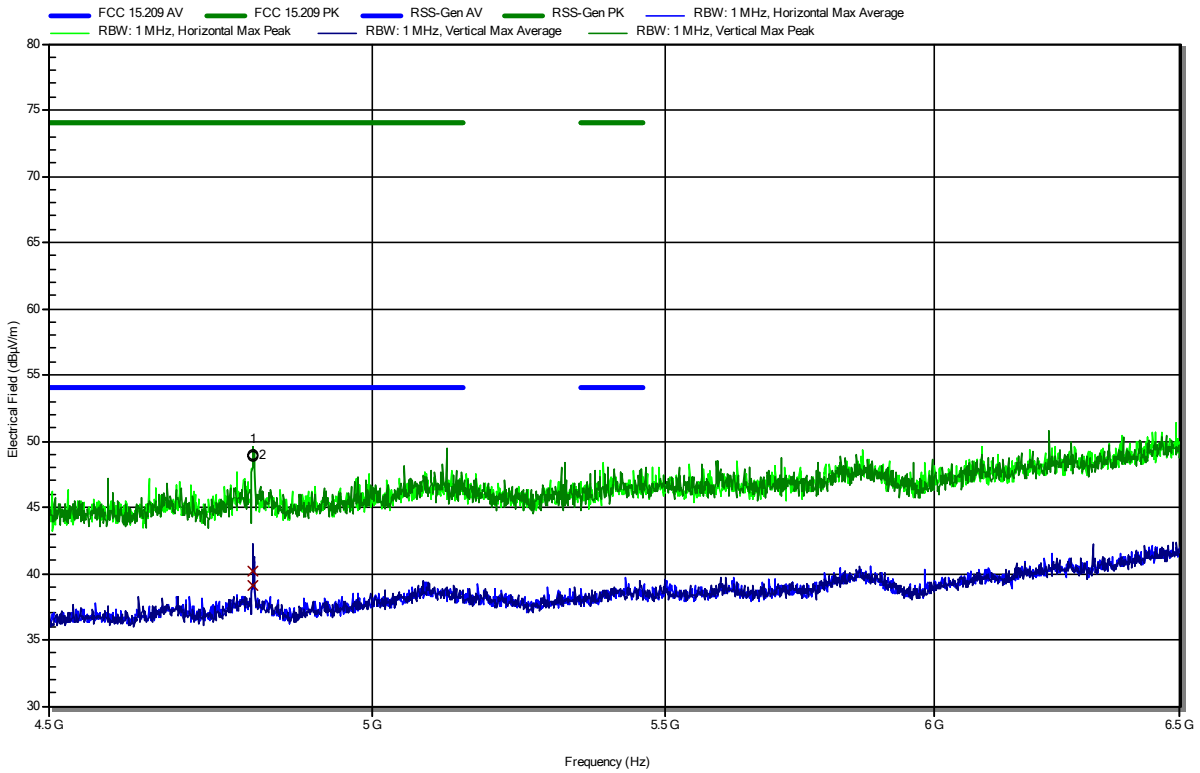
RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.8092 GHz	49.02 dBµV/m	74 dBµV/m	-24.98 dB	Pass	Vertical
4.8093 GHz	48.89 dBµV/m	74 dBµV/m	-25.11 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.8092 GHz	40.19 dBµV/m	54 dBµV/m	-13.81 dB	Pass	Vertical
4.8093 GHz	39.05 dBµV/m	54 dBµV/m	-14.95 dB	Pass	Horizontal

Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Schwarzbeck BBHA 9120D
Measurement distance:	3 m
Mode:	Tx; 2405MHz, DSSS O-QPSK A1
Test Date:	2021-06-30
Note:	

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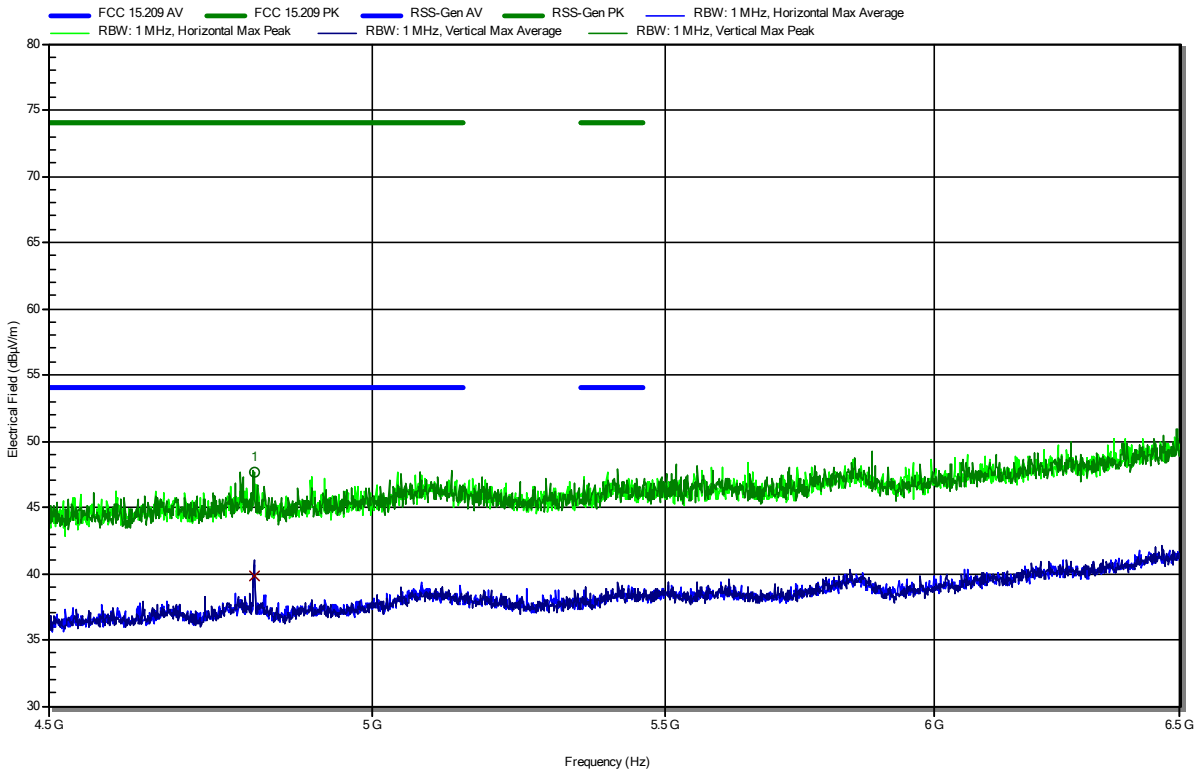
RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.8111 GHz	47.63 dBµV/m	74 dBµV/m	-26.37 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.8111 GHz	39.83 dBµV/m	54 dBµV/m	-14.17 dB	Pass	Vertical

Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Schwarzbeck Schwarzbeck HWRD 650
Measurement distance:	3 m
Mode:	Tx; 2405MHz, DSSS O-QPSK A0
Test Date:	2021-06-30
Note:	

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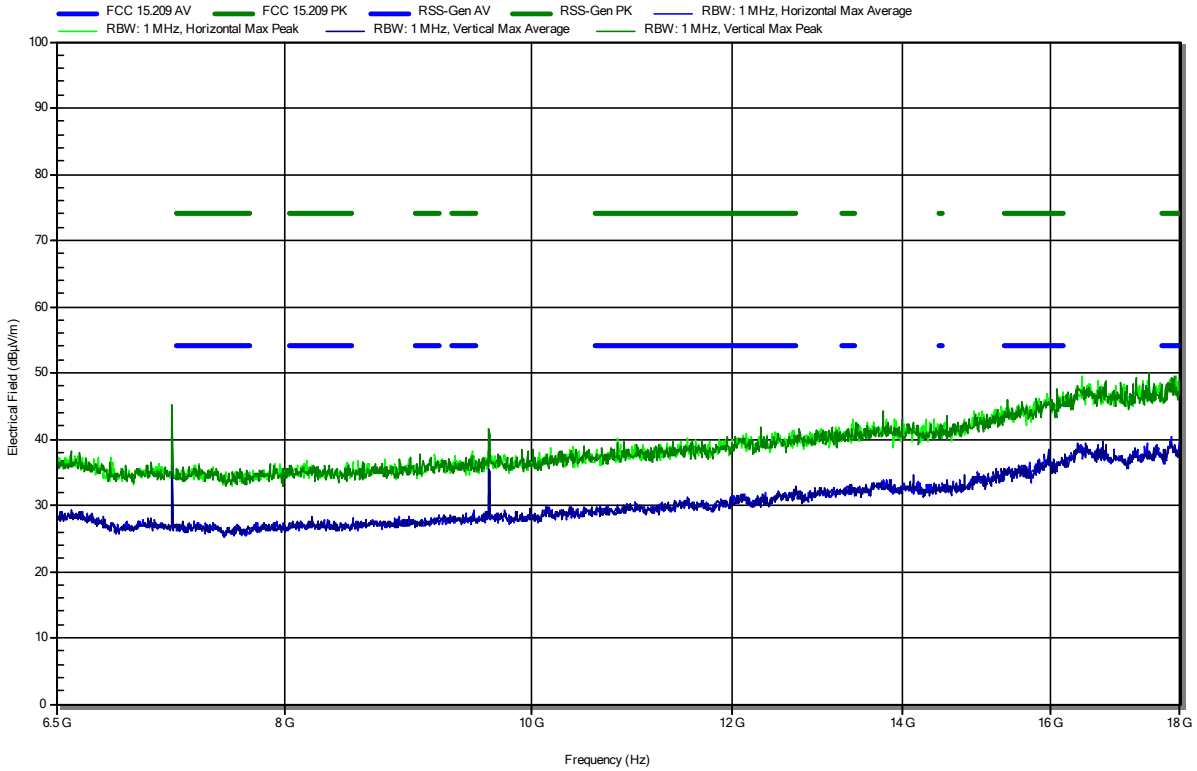
RadiMation



Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Schwarzbeck Schwarzbeck HWRD 650
Measurement distance:	3 m
Mode:	Tx; 2405MHz, DSSS O-QPSK A1
Test Date:	2021-06-30
Note:	

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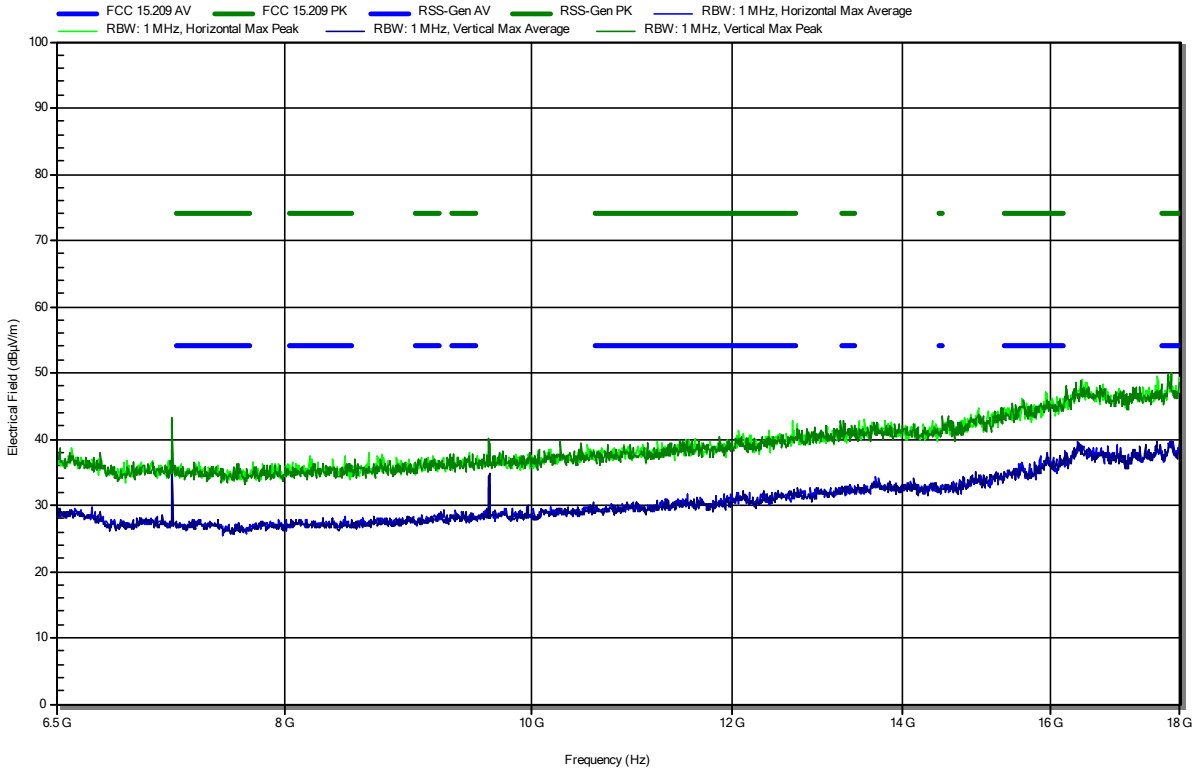
RadiMation



Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Amplifier Research ATH18G40
Measurement distance:	3 m
Mode:	Tx; 2405MHz, DSSS O-QPSK A0
Test Date:	2021-06-30
Note:	

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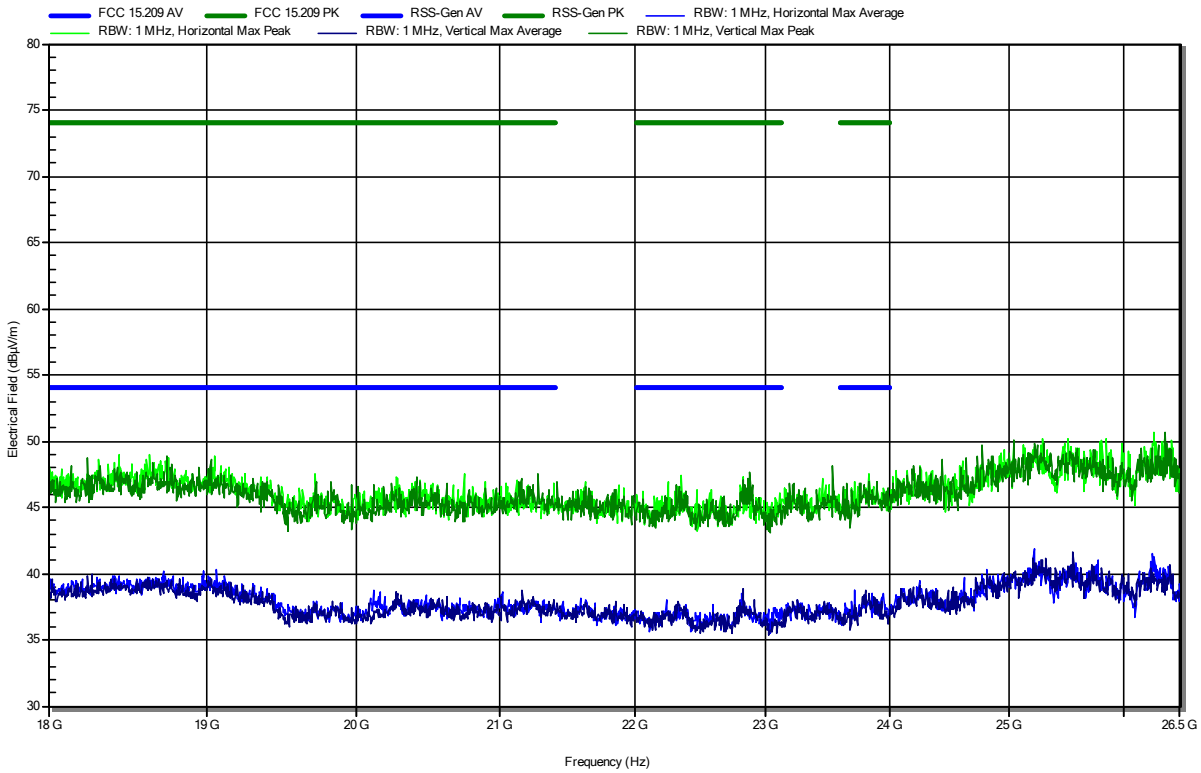
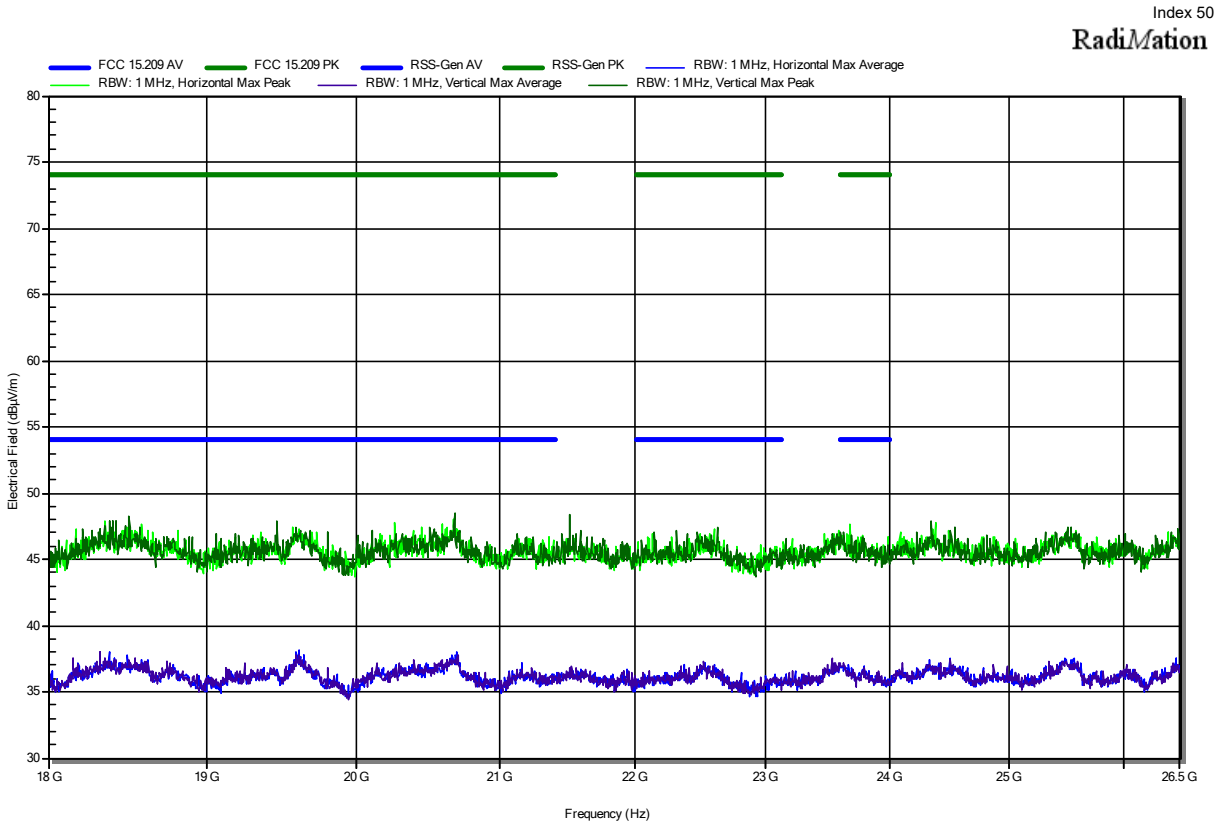
RadiMation



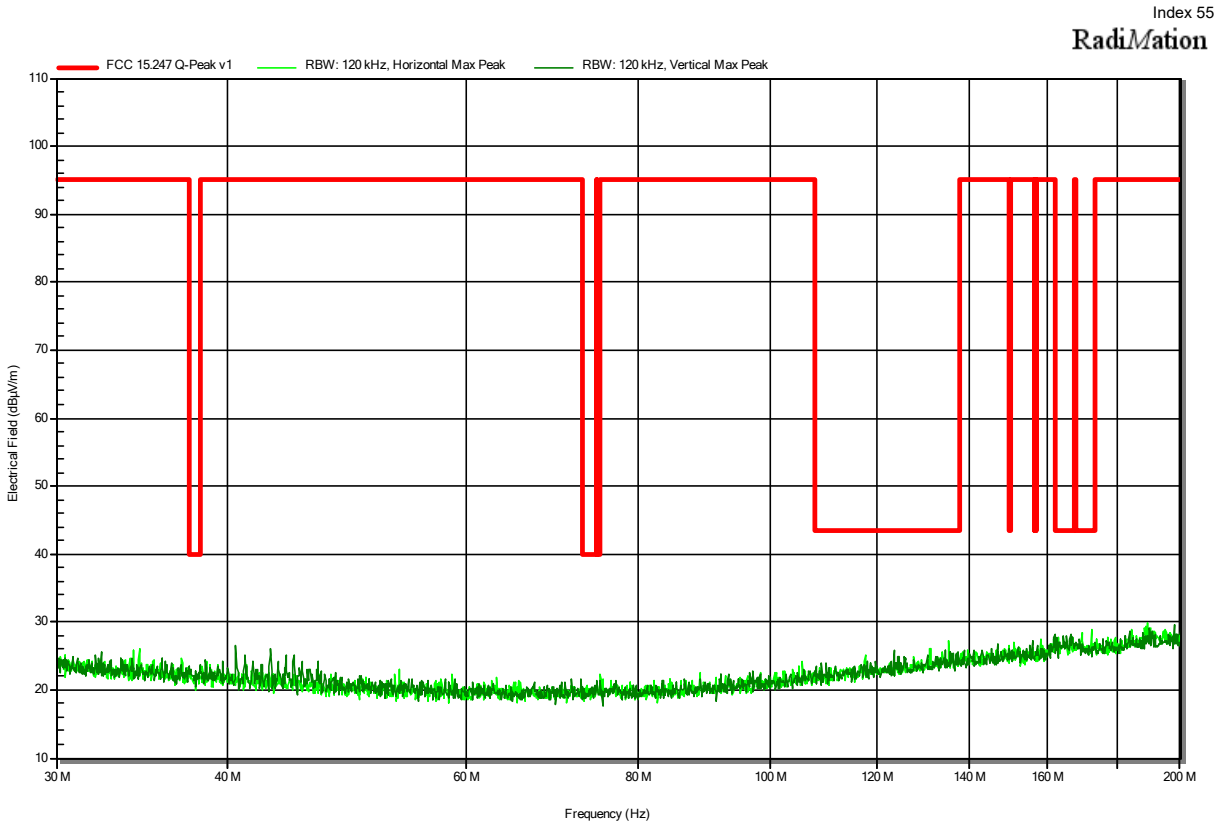
Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Amplifier Research AT4560
Measurement distance:	3 m
Mode:	Tx; 2405MHz, DSSS O-QPSK A1
Test Date:	2021-10-14
Note:	



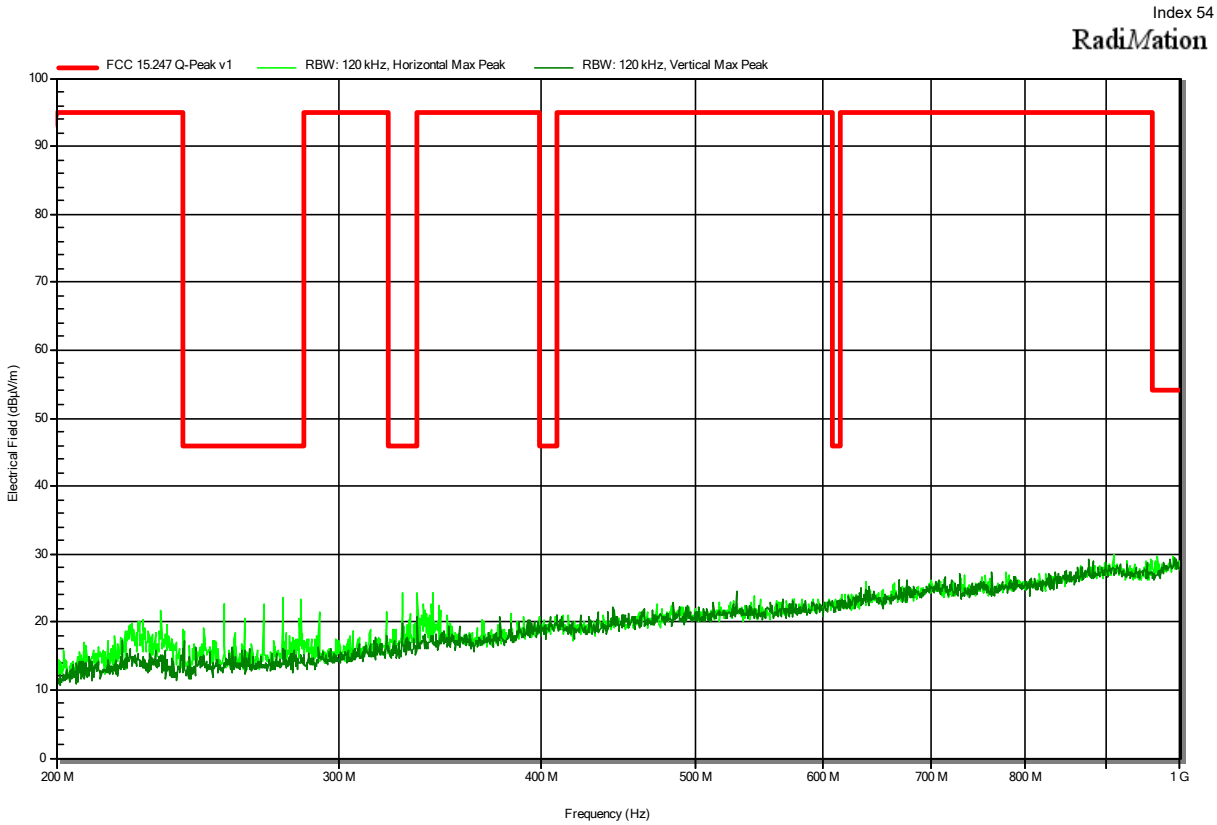
Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Rohde & Schwarz HK 116
Measurement distance:	3 m
Mode:	Tx; 2440MHz, DSSS O-QPSK A0
Test Date:	2021-10-14
Note:	



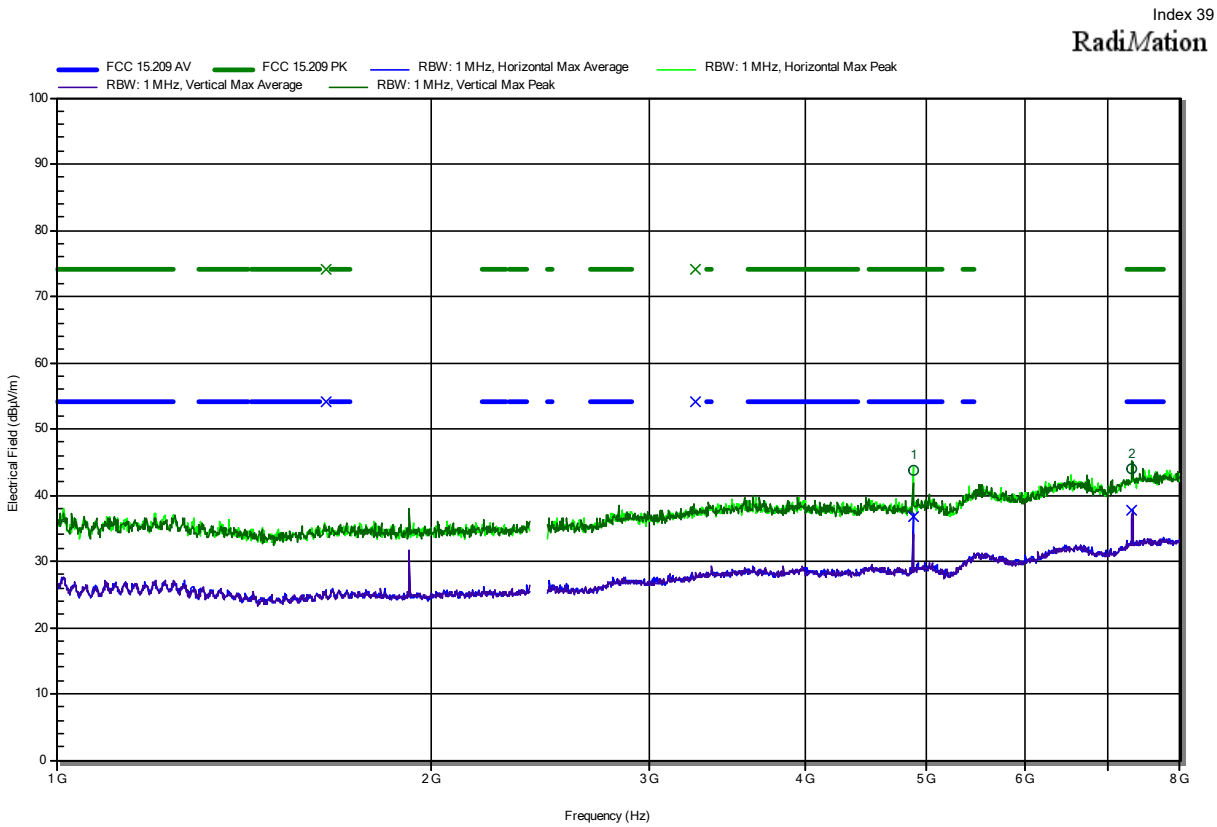
Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Rohde & Schwarz HL 223
Measurement distance:	3 m
Mode:	Tx; 2440MHz, DSSS O-QPSK A0
Test Date:	2021-10-14
Note:	



Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Schwarzbeck BBHA 9120B
Measurement distance:	3 m
Mode:	Tx; 2440MHz, DSSS O-QPSK A0
Test Date:	2021-10-13
Note:	



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.8791 GHz	43.73 dBµV/m	74 dBµV/m	-30.27 dB	Pass	Horizontal
7.3213 GHz	44.03 dBµV/m	74 dBµV/m	-29.97 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.8791 GHz	36.75 dBµV/m	54 dBµV/m	-17.25 dB	Pass	Horizontal
7.3213 GHz	37.63 dBµV/m	54 dBµV/m	-16.37 dB	Pass	Vertical

Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Schwarzbeck BBHA 9120B
Measurement distance:	3 m
Mode:	Tx; 2440MHz, DSSS O-QPSK A1
Test Date:	2021-10-13
Note:	

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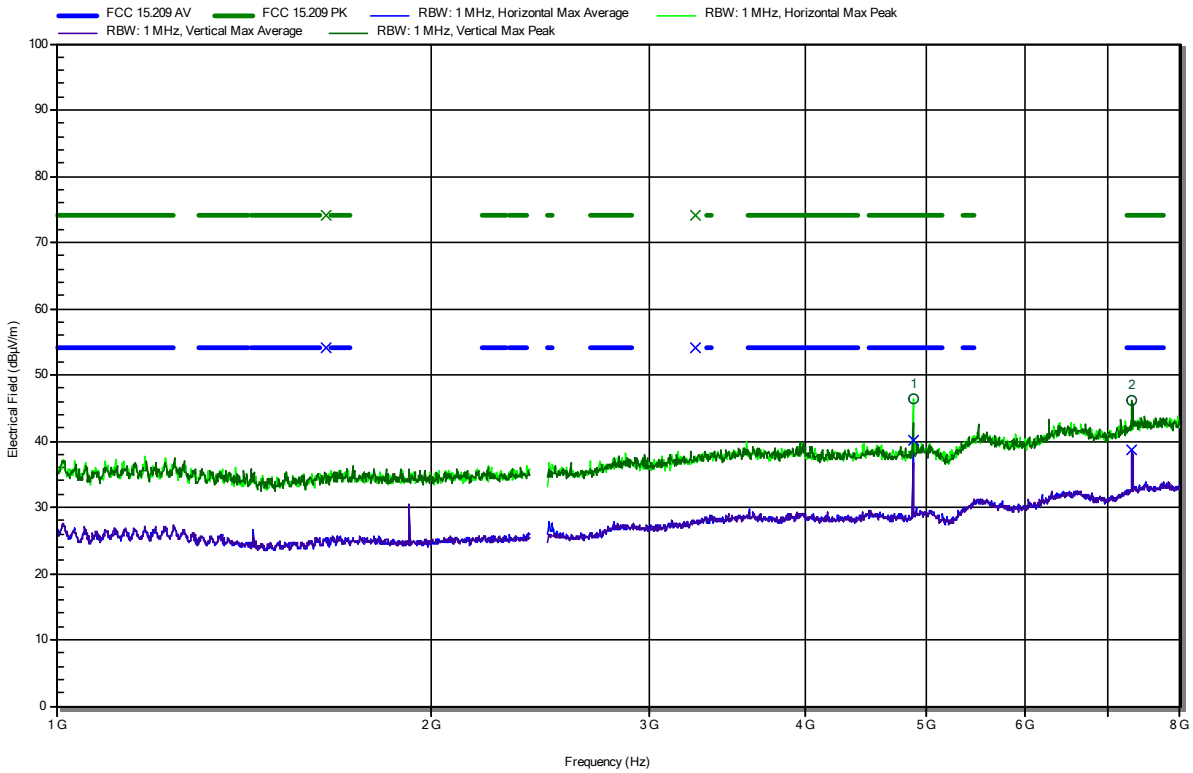
RadiMation

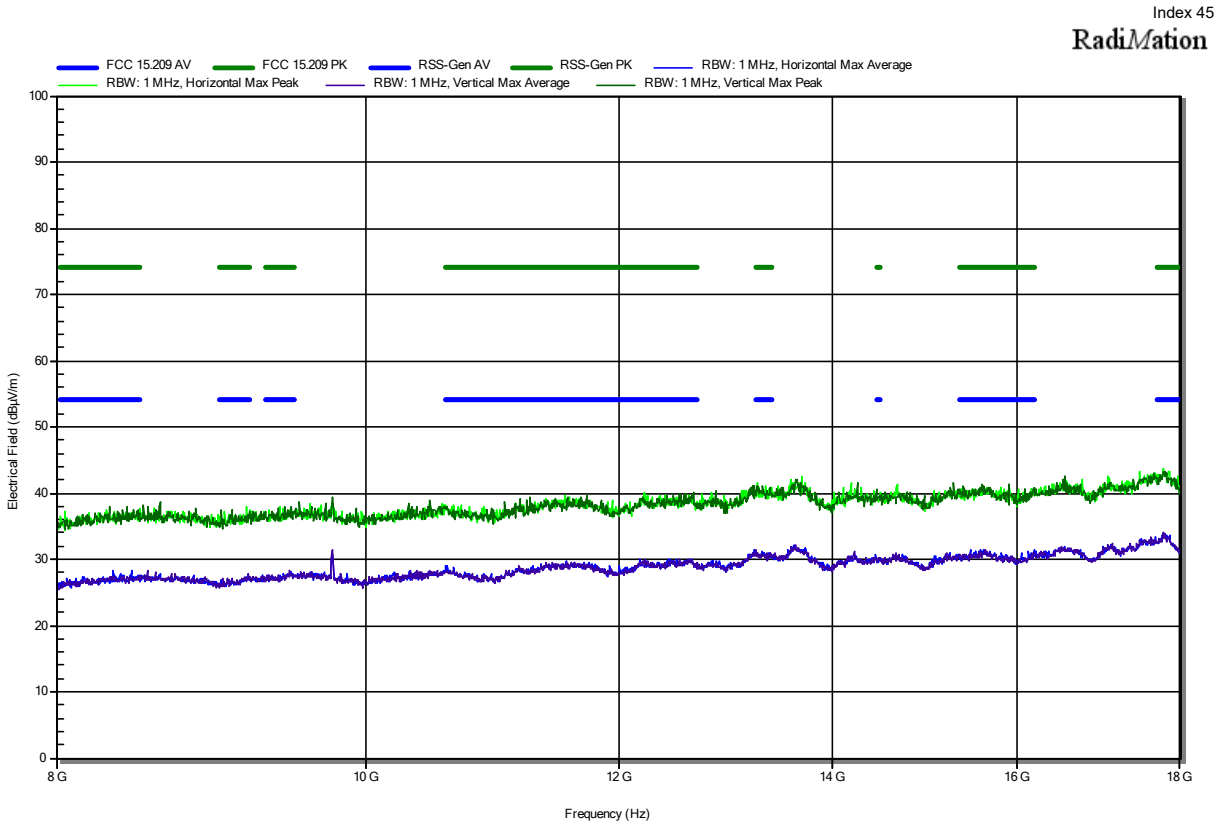


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.8809 GHz	46.44 dBµV/m	74 dBµV/m	-27.56 dB	Pass	Horizontal
7.3187 GHz	46.12 dBµV/m	74 dBµV/m	-27.88 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.8809 GHz	40.07 dBµV/m	54 dBµV/m	-13.93 dB	Pass	Horizontal
7.3187 GHz	38.68 dBµV/m	54 dBµV/m	-15.32 dB	Pass	Vertical

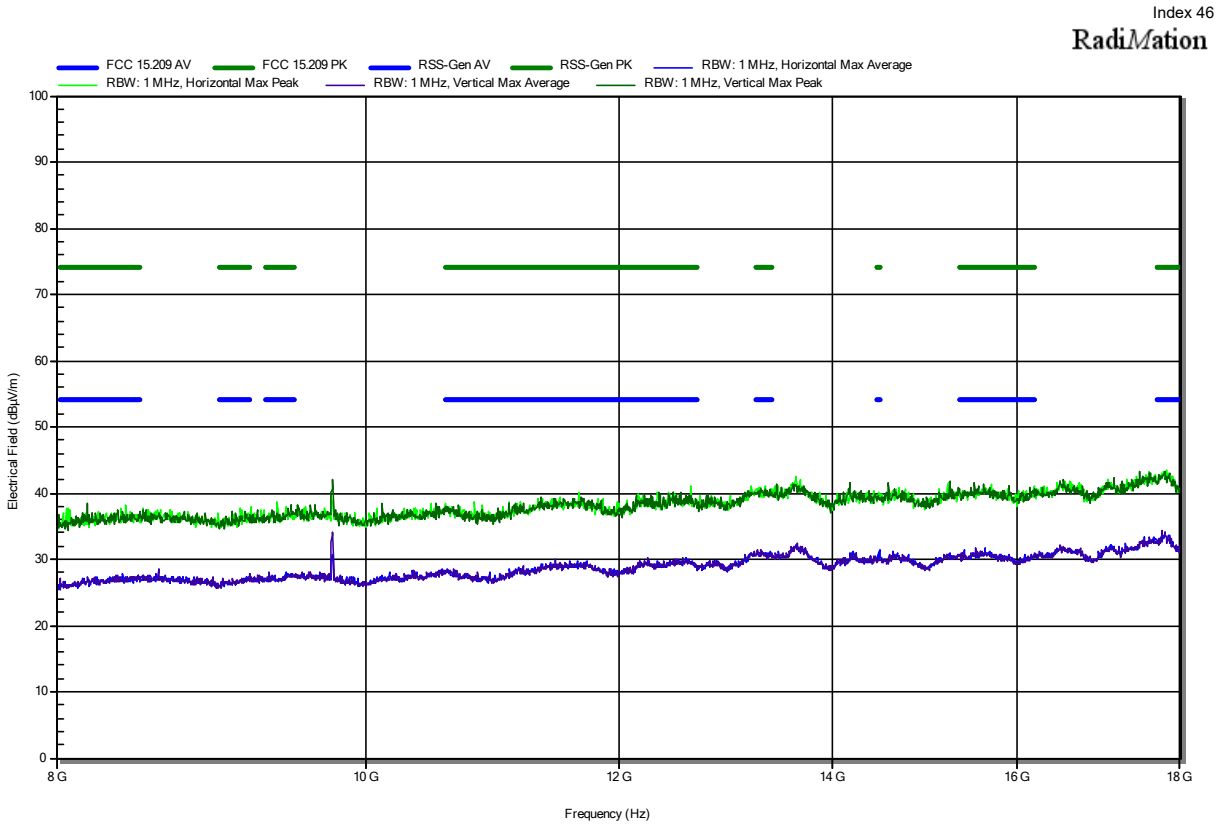
Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Schwarzbeck HWRD 650
Measurement distance:	3 m
Mode:	Tx; 2440MHz, DSSS O-QPSK A0
Test Date:	2021-10-13
Note:	



Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Schwarzbeck HWRD 650
Measurement distance:	3 m
Mode:	Tx; 2440MHz, DSSS O-QPSK A1
Test Date:	2021-10-13
Note:	



Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Amplifier Research AT4560
Measurement distance:	3 m
Mode:	Tx; 2440MHz, DSSS O-QPSK A0
Test Date:	2021-10-14
Note:	

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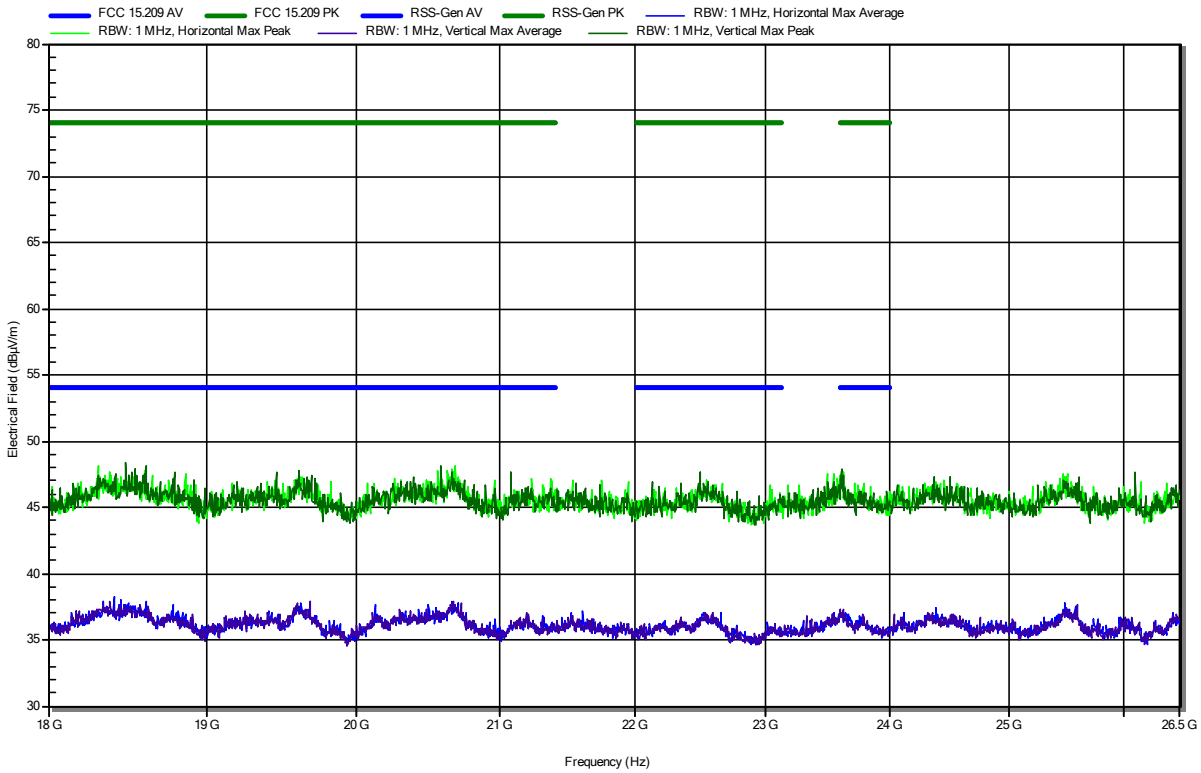
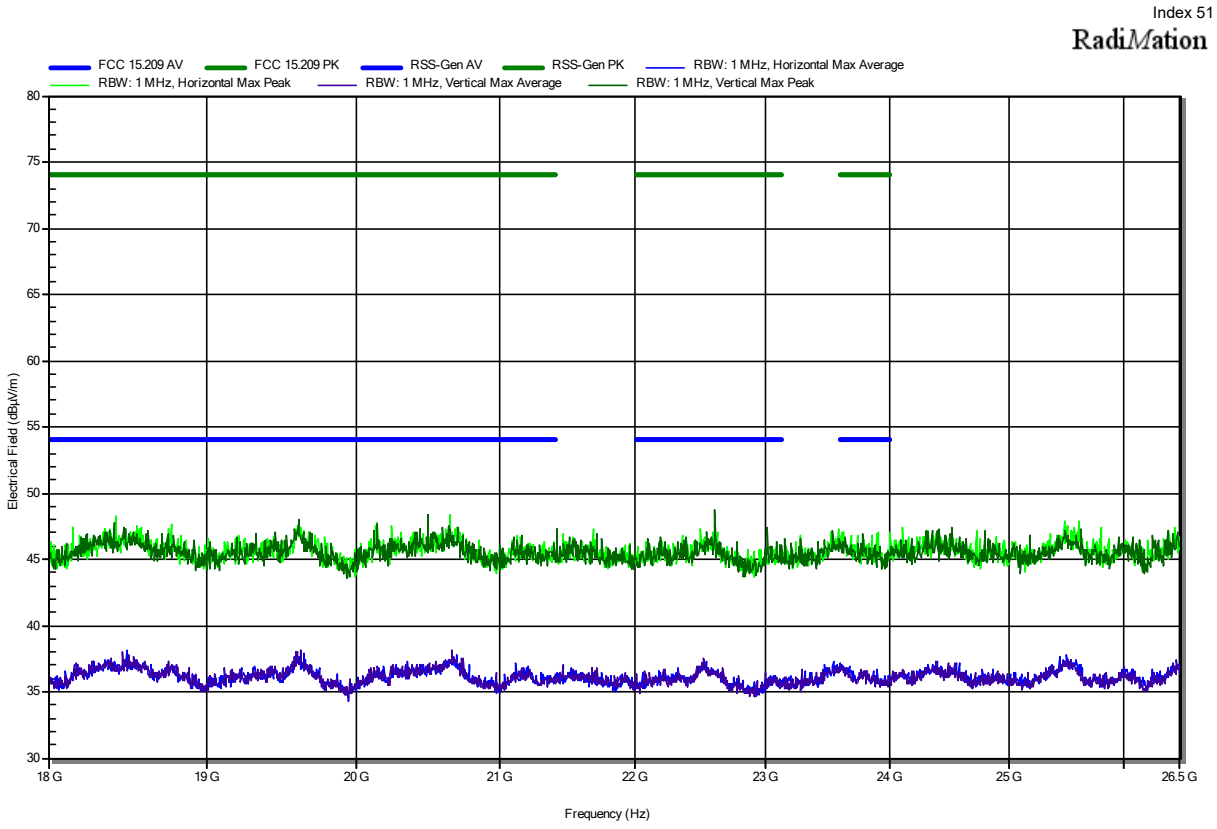
RadiMation



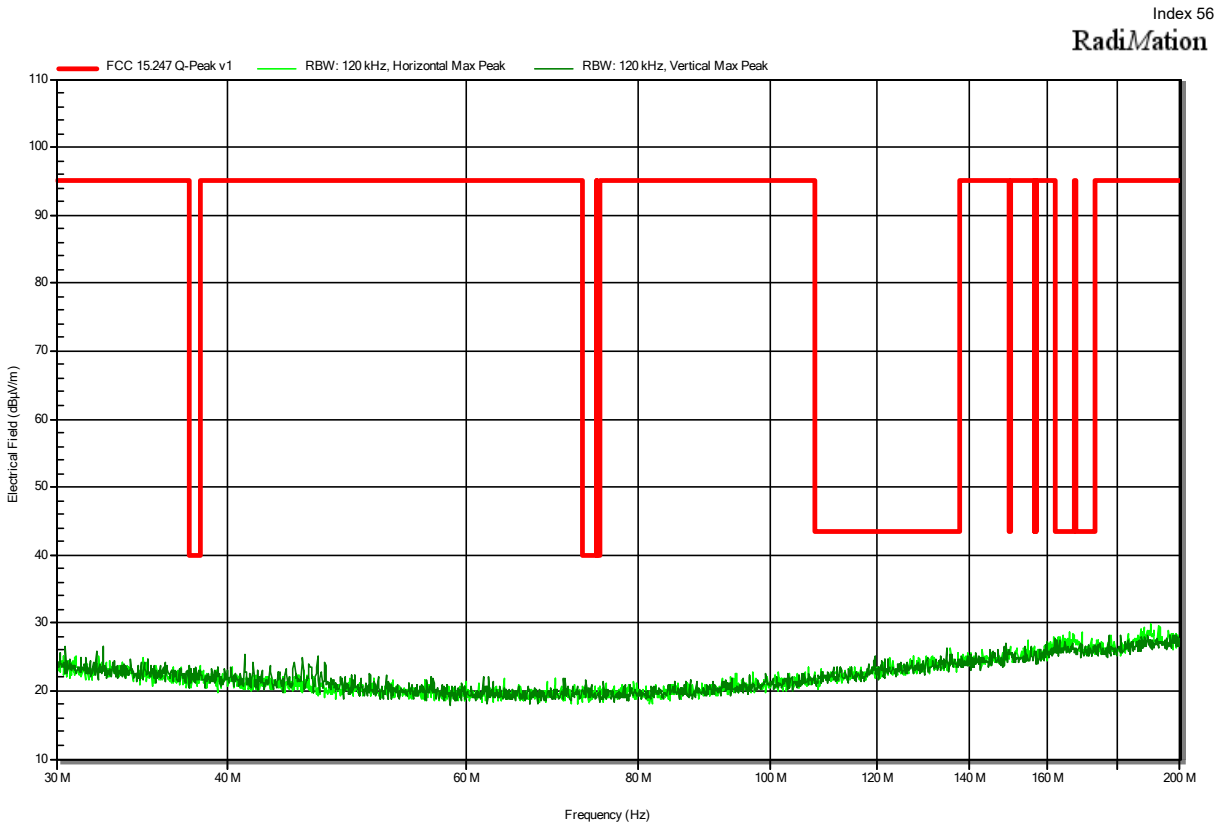
Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Amplifier Research AT4560
Measurement distance:	3 m
Mode:	Tx; 2440MHz, DSSS O-QPSK A1
Test Date:	2021-10-14
Note:	



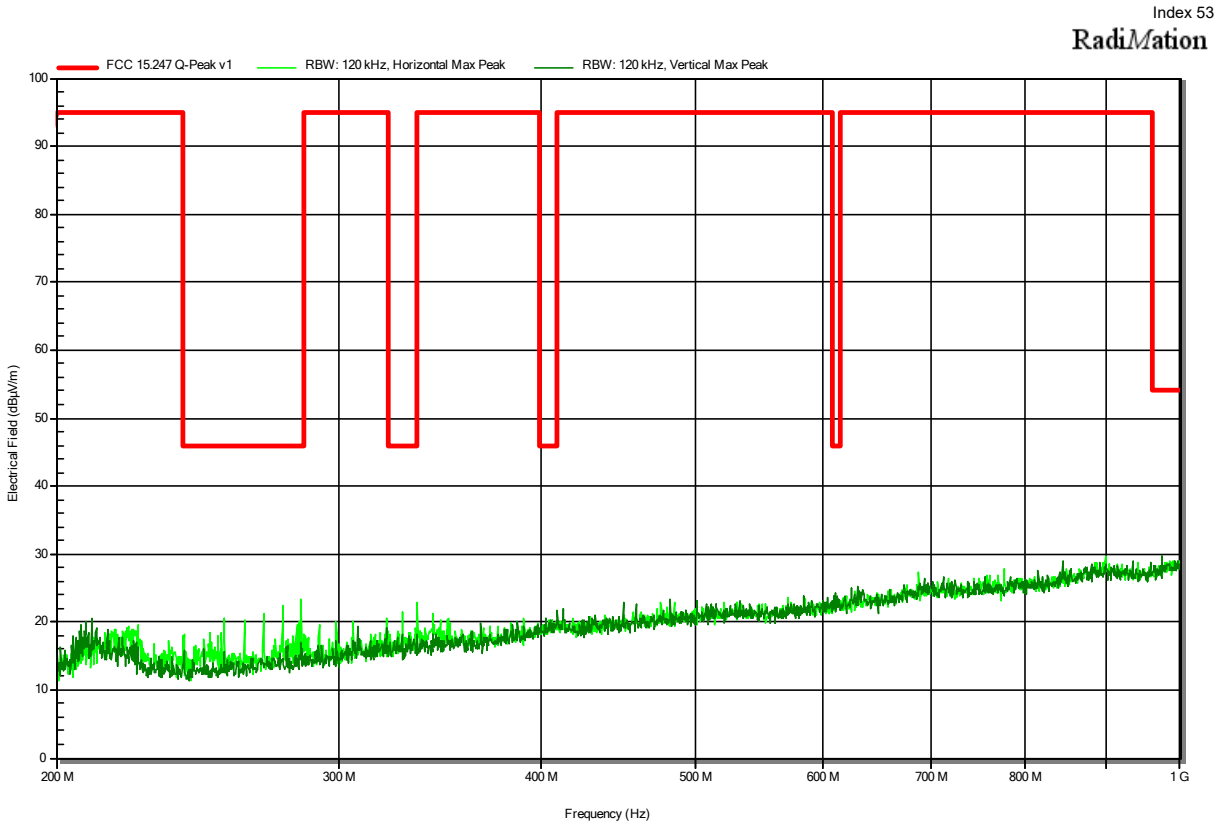
Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Rohde & Schwarz HK 116
Measurement distance:	3 m
Mode:	Tx; 2470MHz, DSSS O-QPSK A0
Test Date:	2021-10-14
Note:	



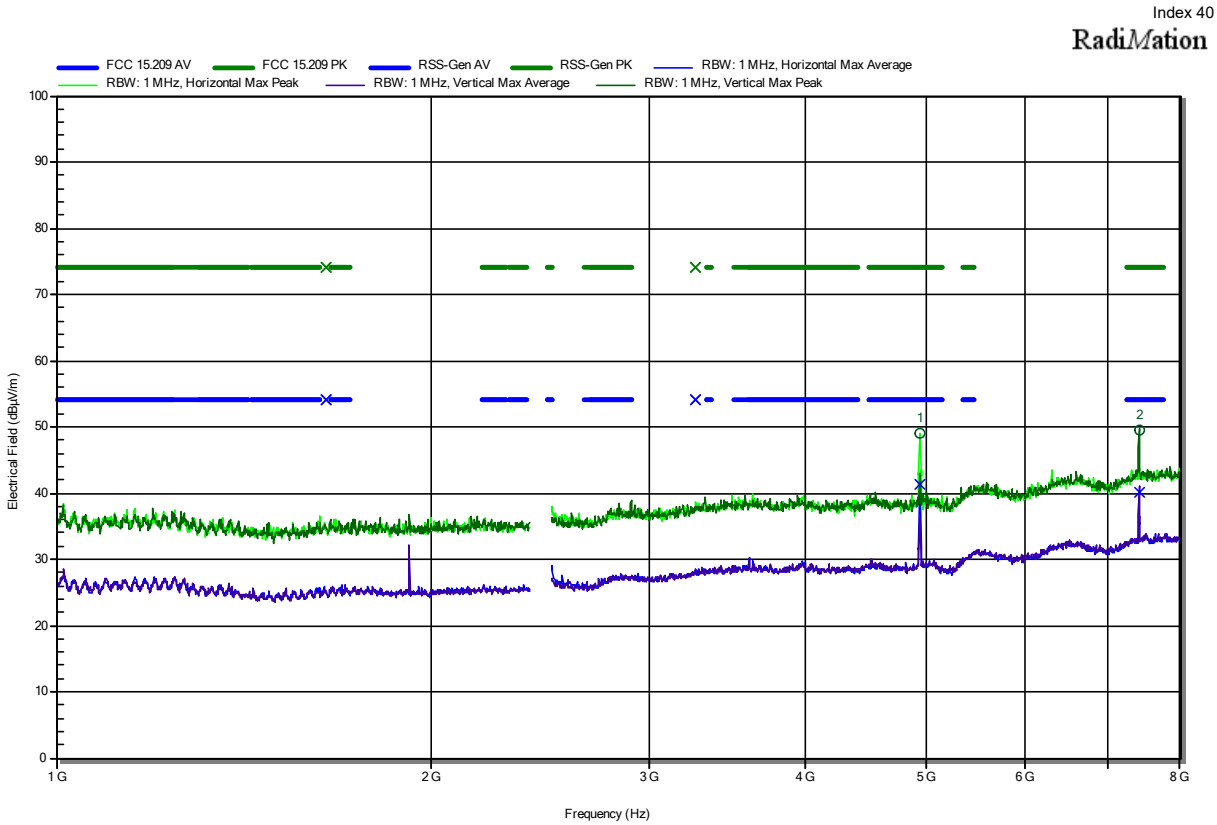
Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Rohde & Schwarz HL 223
Measurement distance:	3 m
Mode:	Tx; 2470MHz, DSSS O-QPSK A0
Test Date:	2021-10-14
Note:	



Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Schwarzbeck BBHA 9120B
Measurement distance:	3 m
Mode:	Tx; 2470MHz, DSSS O-QPSK A0
Test Date:	2021-10-13
Note:	

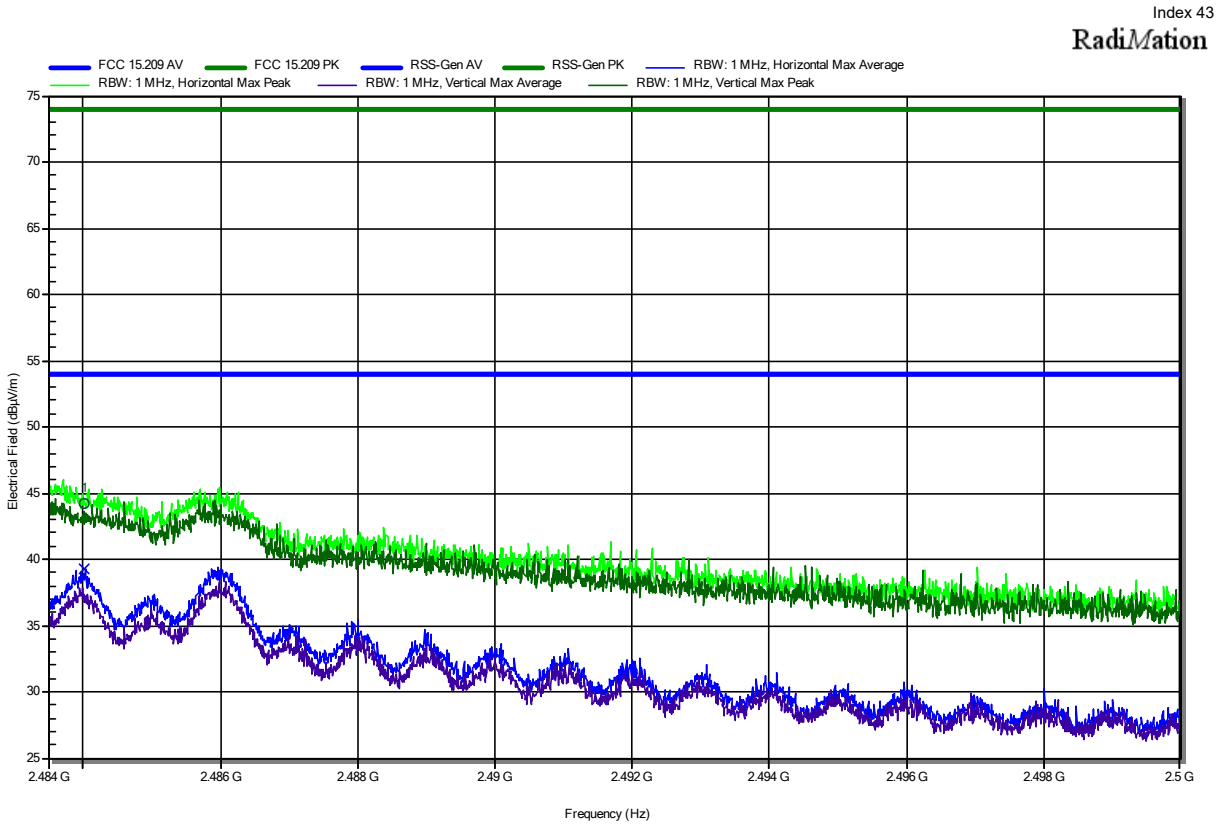


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.941 GHz	48.94 dBµV/m	74 dBµV/m	-25.06 dB	Pass	Horizontal
7.411 GHz	49.57 dBµV/m	74 dBµV/m	-24.43 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.941 GHz	41.35 dBµV/m	54 dBµV/m	-12.65 dB	Pass	Horizontal
7.411 GHz	40.13 dBµV/m	54 dBµV/m	-13.87 dB	Pass	Vertical

Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Schwarzbeck BBHA 9120B
Measurement distance:	3 m
Mode:	Tx; 2470MHz, DSSS O-QPSK A0
Test Date:	2021-10-13
Note:	upper bandedge

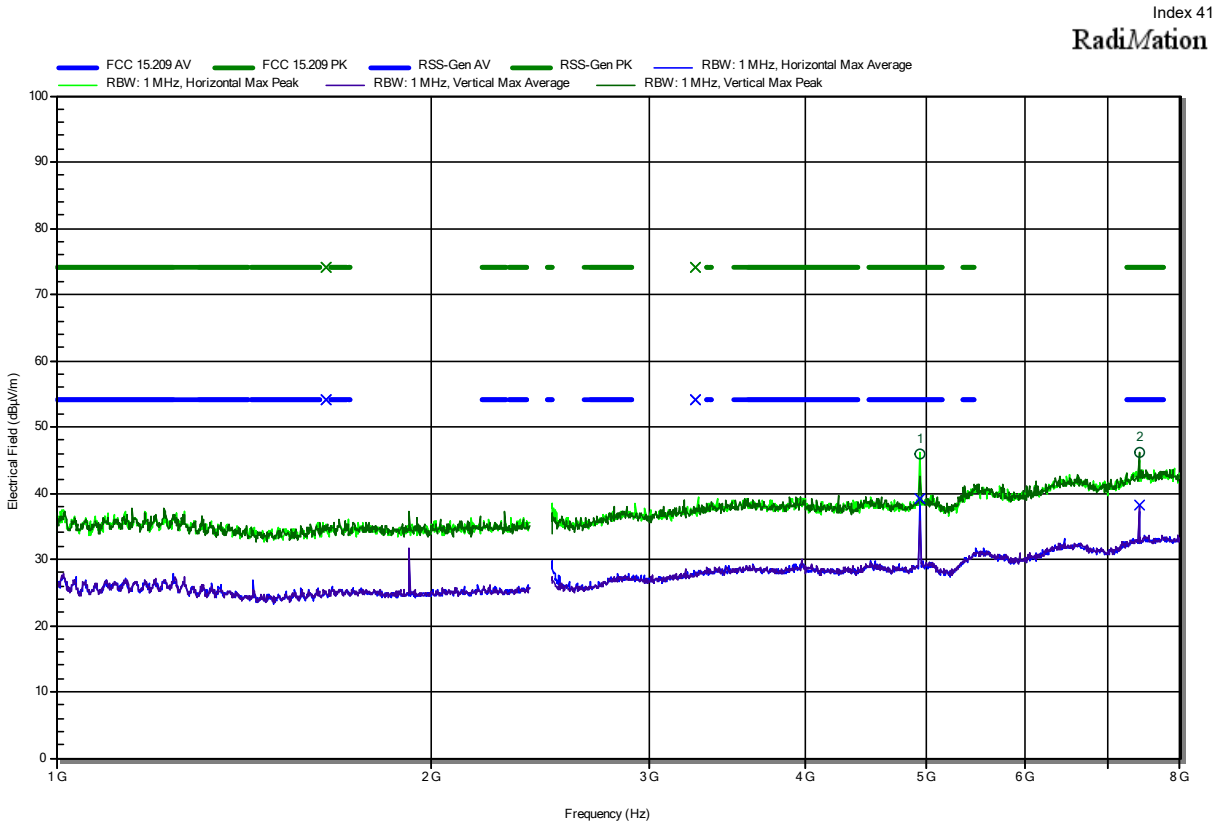


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.484 GHz	44.24 dBµV/m	74 dBµV/m	-29.76 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.484 GHz	39.31 dBµV/m	54 dBµV/m	-14.69 dB	Pass	Horizontal

Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Schwarzbeck BBHA 9120B
Measurement distance:	3 m
Mode:	Tx; 2470MHz, DSSS O-QPSK A1
Test Date:	2021-10-13
Note:	



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.941 GHz	45.99 dBµV/m	74 dBµV/m	-28.01 dB	Pass	Horizontal
7.412 GHz	46.24 dBµV/m	74 dBµV/m	-27.76 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.941 GHz	39.18 dBµV/m	54 dBµV/m	-14.82 dB	Pass	Horizontal
7.412 GHz	38.21 dBµV/m	54 dBµV/m	-15.79 dB	Pass	Vertical

Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Schwarzbeck HWRD 650
Measurement distance:	3 m
Mode:	Tx; 2470MHz, DSSS O-QPSK A0
Test Date:	2021-10-13
Note:	

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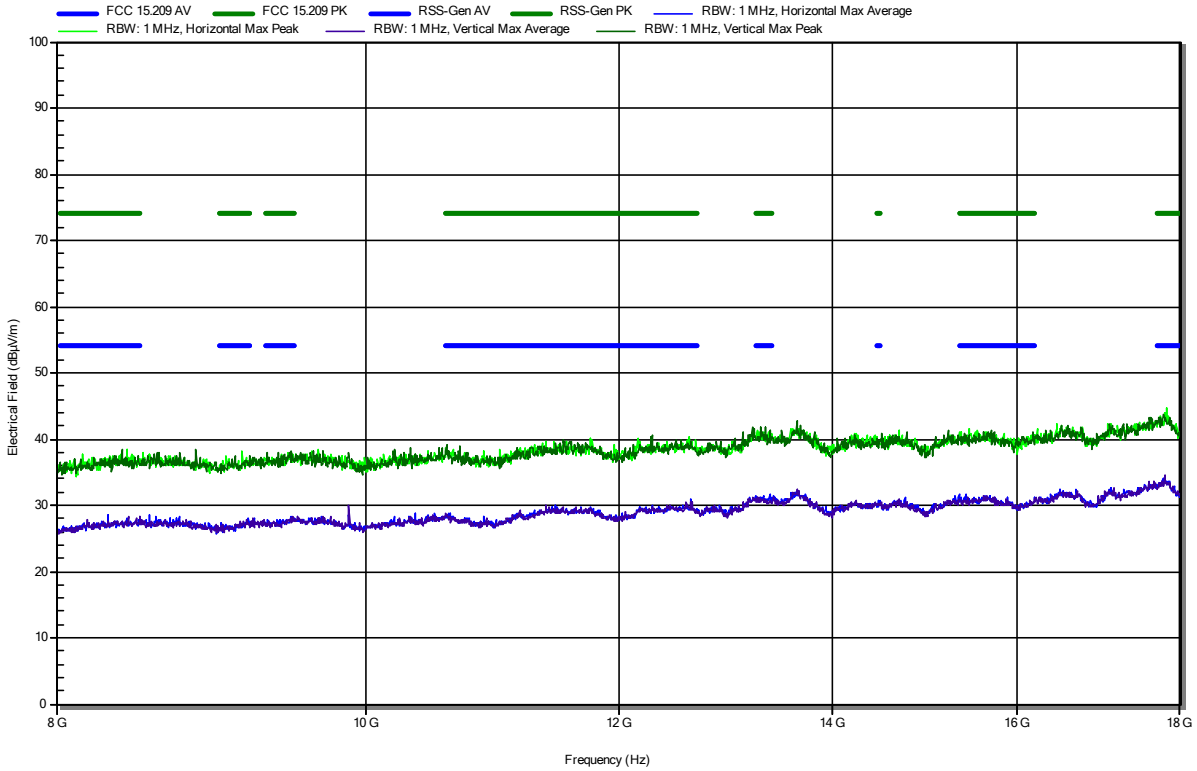
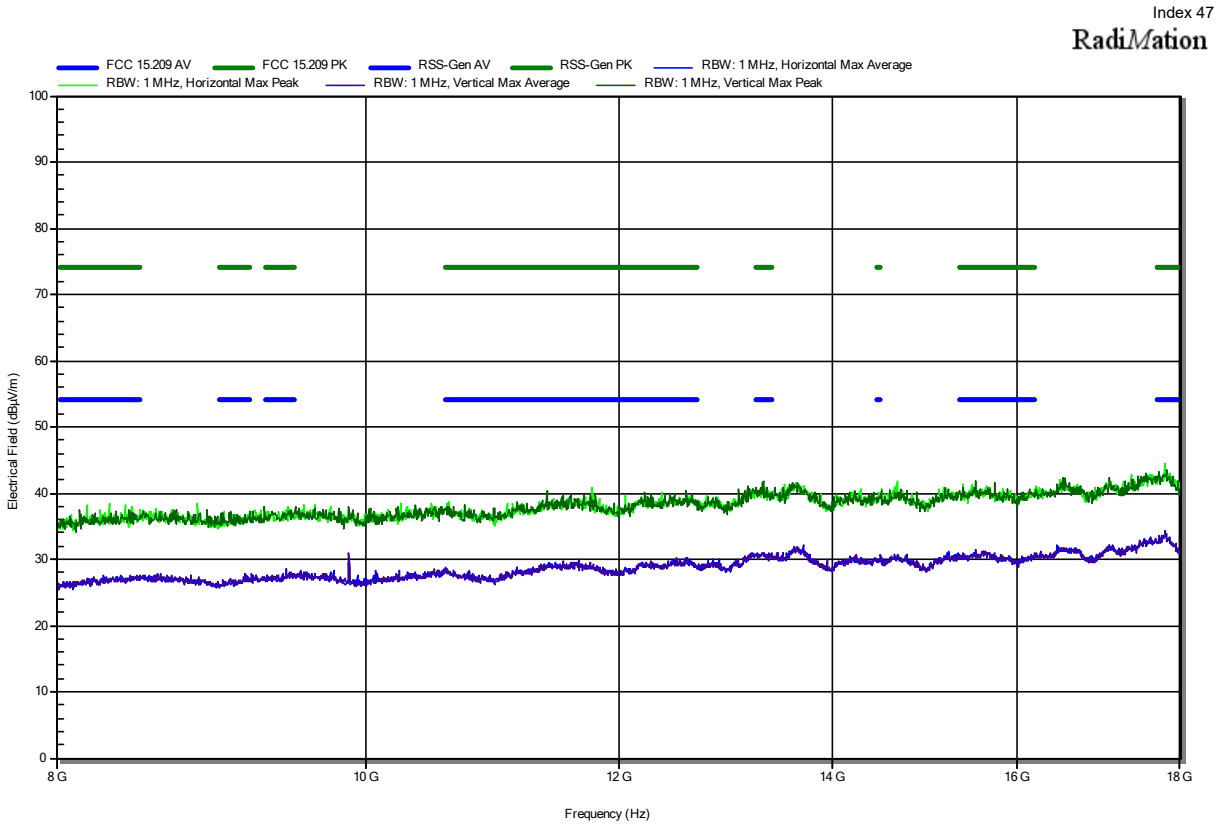
RadiMation



Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Schwarzbeck HWRD 650
Measurement distance:	3 m
Mode:	Tx; 2470MHz, DSSS O-QPSK A1
Test Date:	2021-10-13
Note:	



Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Amplifier Research AT4560
Measurement distance:	3 m
Mode:	Tx; 2470MHz, DSSS O-QPSK A0
Test Date:	2021-10-14
Note:	

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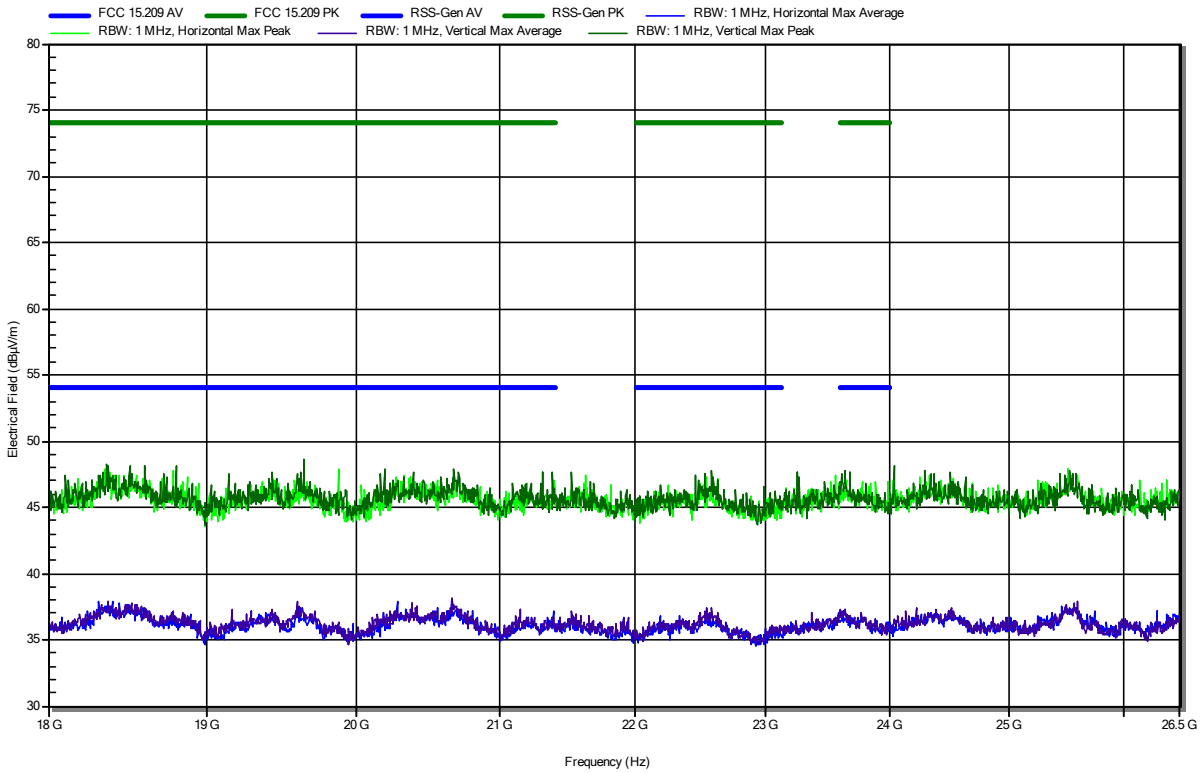
RadiMation



Radiated Spurious Emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 22 °Celsius, Vnom: 15.0 VDC
Antenna:	Amplifier Research AT4560
Measurement distance:	3 m
Mode:	Tx; 2470MHz, DSSS O-QPSK A1
Test Date:	2021-10-14
Note:	

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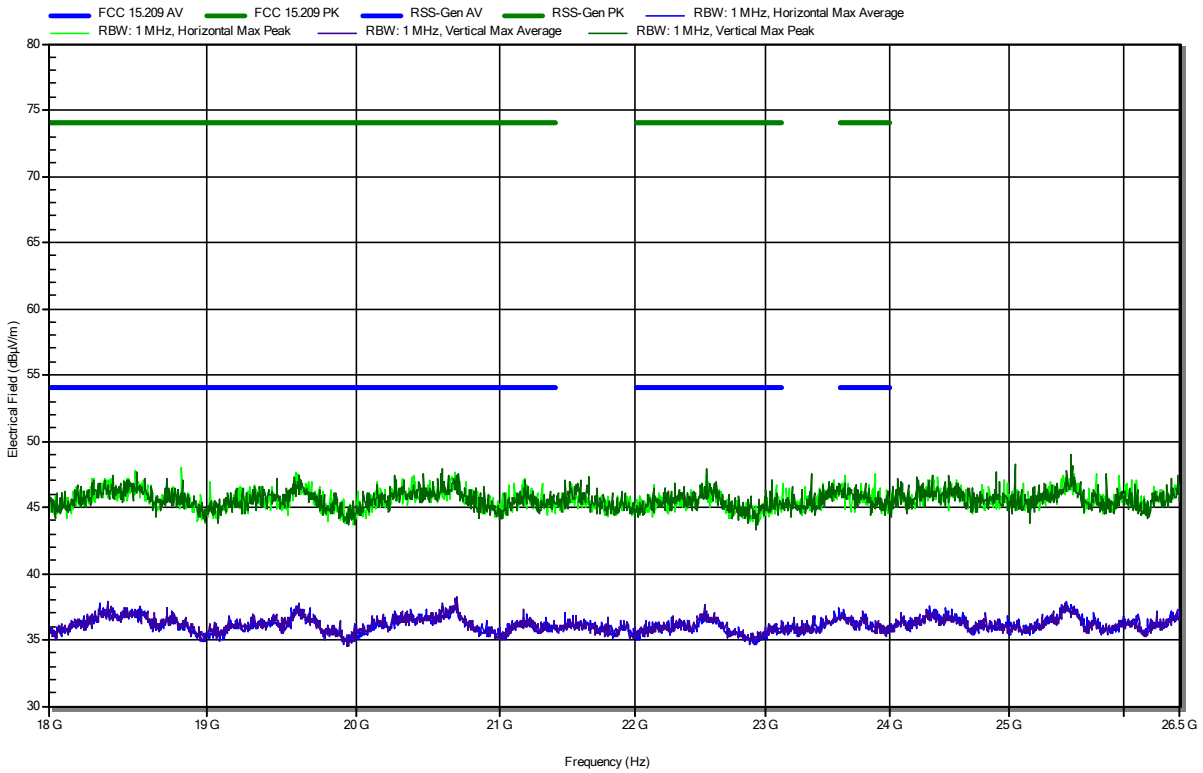
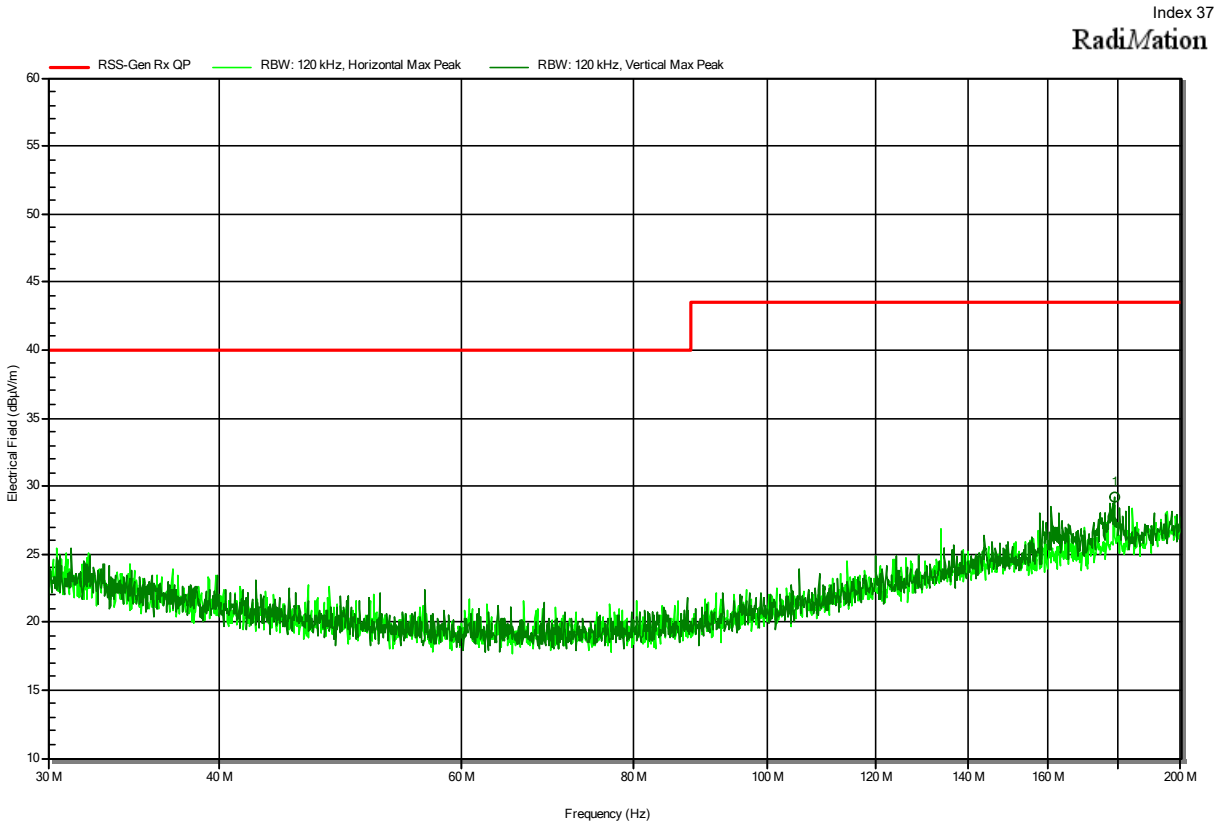
RadiMation



ANNEX B Receiver spurious emissions

Radiated emissions according to RSS-247 Issue 2, 47 CFR § 15.247

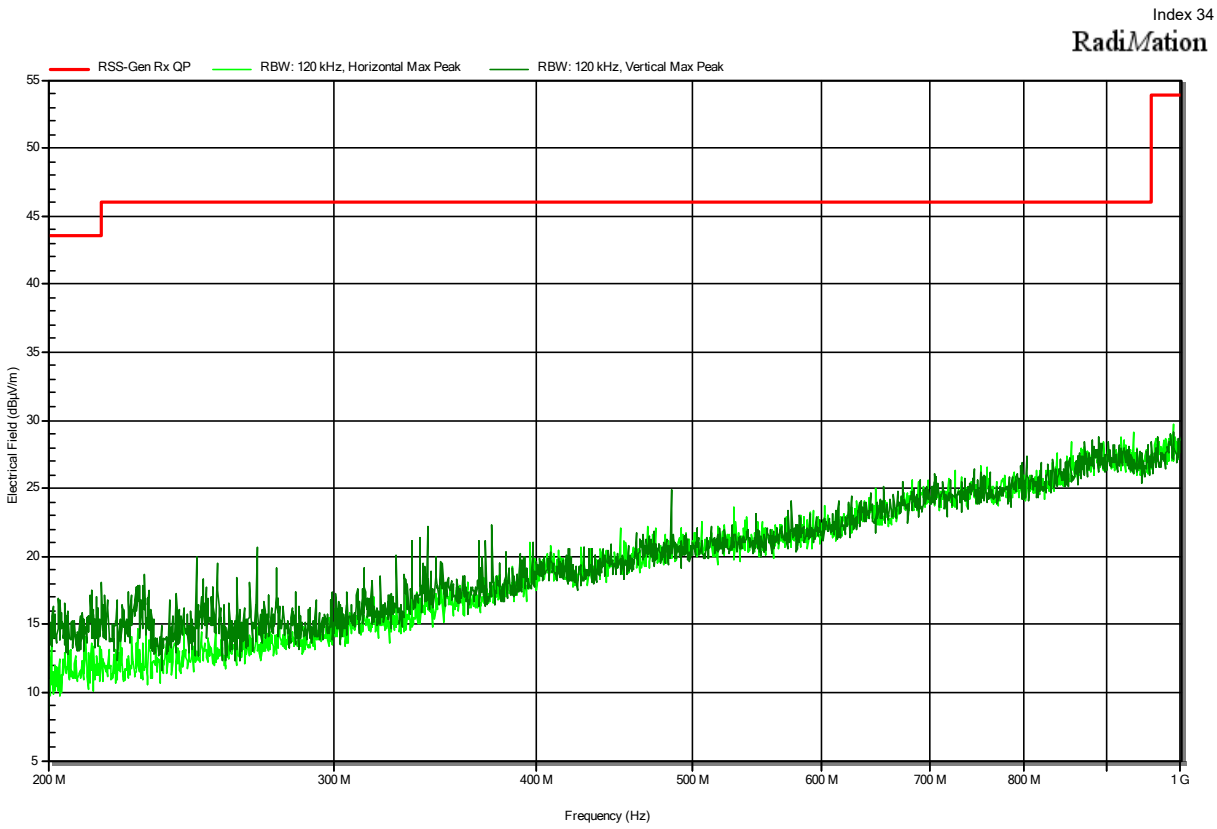
Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Test Date:	2021-06-30
Operating Conditions:	ambient temperature: 22 °Celsius power input: 15.0 VDC
Antenna:	Rohde & Schwarz HK 116
Measurement Distance:	3m
Operational Mode:	2440MHz, Receive
Note 1:	



Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	178.8053 MHz	29.2 dBµV/m	43.5 dBµV/m	-14.33 dB	Pass	-180 degrees	1 m

Radiated emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Test Date:	2021-06-30
Operating Conditions:	ambient temperature: 22 °Celsius power input: 15.0 VDC
Antenna:	Rohde & Schwarz HL 223
Measurement Distance:	3m
Operational Mode:	2440MHz, Receive
Note 1:	



Radiated emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Test Date:	2021-06-30
Operating Conditions:	ambient temperature: 22 °Celsius power input: 15.0 VDC
Antenna:	Schwarzbeck BBHA 9120D
Measurement Distance:	3m
Operational Mode:	2440MHz, Receive
Note 1:	

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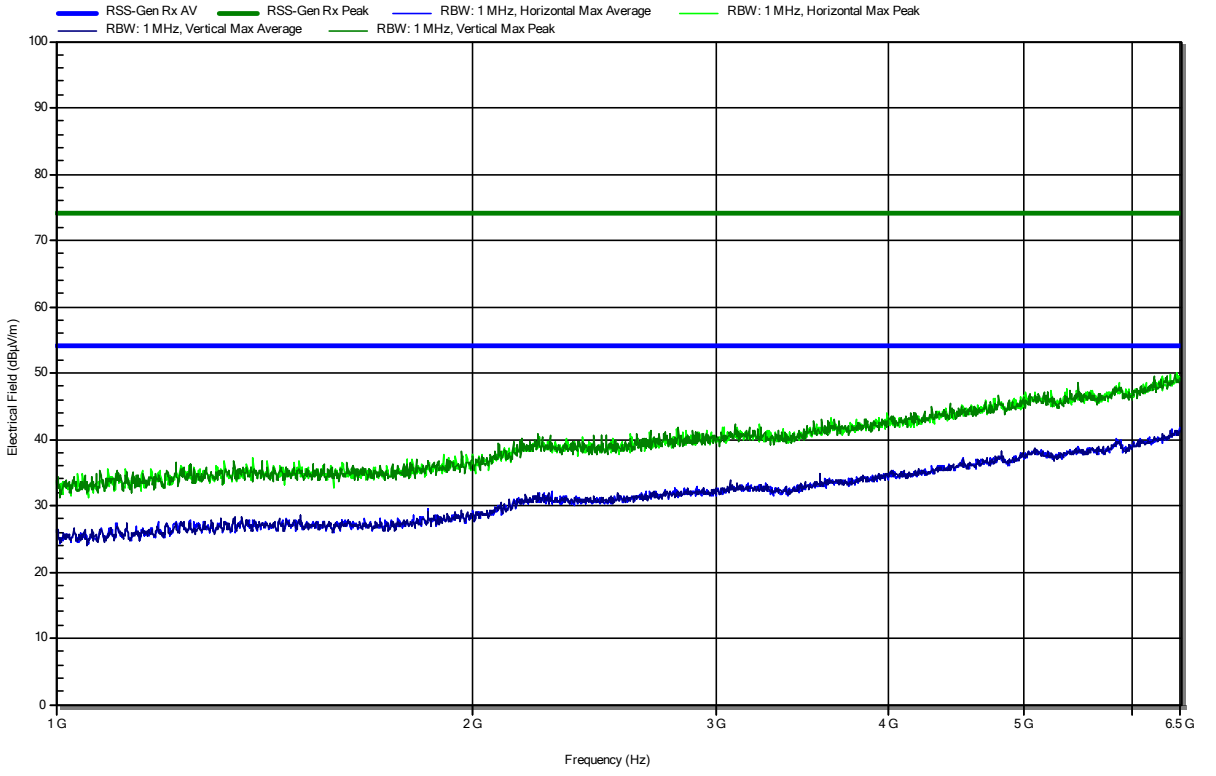
RadiMation



Radiated emissions according to RSS-247 Issue 2, 47 CFR § 15.247

Project Number:	G0M-2102-9617
Applicant:	SKAN Deutschland GmbH
Model Description:	Glove Tester
Model:	WirelessGT-2
Test Sample ID:	33685
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Voigt
Test Date:	2021-06-30
Operating Conditions:	ambient temperature: 22 °Celsius power input: 15.0 VDC
Antenna:	Schwarzbeck HWRD 650
Measurement Distance:	3m
Operational Mode:	2440MHz, Receive
Note 1:	

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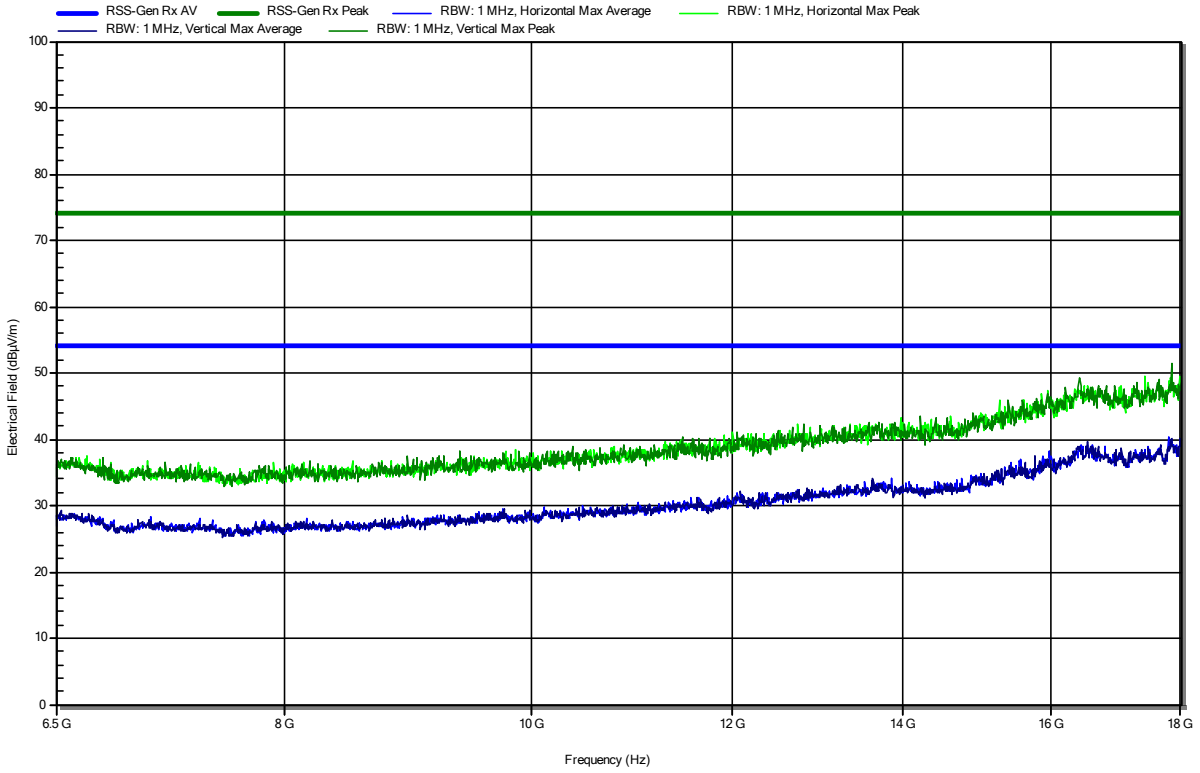
RadiMation



=== End of test report ===