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-2106-9856-TFC247BL_AP200S-V02
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	Andreas Stihl AG & Co. KG
Address	Badstraße 115 71336 Waiblingen Germany
Test Specification	47 CFR Part 15C RSS-247, Issue 3, 2023-08 RSS-Gen, Issue 5, Amendment 2, 2021-02
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	Battery pack 4850 with Bluetooth-Modul
Model(s)	AP 200S
Additional Model(s)	AP 300S
Brand Name(s)	Andreas Stihl AG & Co. KG
Hardware Version(s)	HW 00.04
Software Version(s)	SW 00.92
FCC ID	2ALP8AP2
IC	23431-AP2
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	2021-10-25	
Report:		
Compiled by	Stephan Liebich	
Responsible for Test	Burkhard Pudell	
Approved by (Senior Radio Expert)	Radwan Jaafar	
Date of Issue	2024-06-24	
Total number of pages	52	
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:		
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VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2022-02-18	Initial Release	--
02	2024-06-24	Replaced document: G0M-2106-9856-TFC247BL_AP200S-V01 Replaced by: G0M-2106-9856-TFC247BL_AP200S-V02 Changes: • Update from RSS-247, Issue 3 to RSS-247, Issue 3	St. Liebich

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
RBW	Resolution bandwidth
RMS	Root mean square
VBW	Video bandwidth
V_{NOM}	Nominal supply voltage

REPORT INDEX

1 Equipment (Test Item) Under Test

Description	Battery pack 4850 with Bluetooth-Modul		
Model	AP 200 S		
Additional Model(s)	AP 300 S		
Brand Name(s)	Andreas Stihl AG & Co. KG		
Serial Number(s)	914701978		
Hardware Version(s)	HW 00.04		
Software Version(s)	SW 00.92		
FCC ID	2ALP8AP2		
IC	23431-AP2		
Equipment type	End Product		
Radio type	Transceiver		
Assigned frequency bands	2400.0 MHz - 2483.5 MHz		
Radio technology	Bluetooth LE 4.1		
Bluetooth Specification	LE 1M PHY		Yes
	LE 2M PHY		No
	LE Coded PHY S=8 (125 kbit)		No
	LE Coded PHY S=2 (500 kbit)		No
	Stable Modulation Index - Transmitter		No
	Stable Modulation Index - Receiver		No
Modulation	GFSK		
Number of antenna ports	1		
Antenna	Type	Integrated antenna	
	Model	Inverted F	
	Manufacturer	Andreas Stihl AG & Co. KG	
	Gain	2 dBi	
Supply Voltage	V_{NOM}	36 VDC	
Operating Temperature	T_{NOM}	25 °C	
AC/DC-Adaptor	Model	4850	
	Vendor	ANDREAS STIHL AG & Co. KG	
	Input	120VAC/60Hz	
	Output	25.6-36V	
Manufacturer	ANDREAS STIHL AG & Co. KG Badstraße 115 71336 Waiblingen Germany		

1.1 Photos – Equipment External

EUT Front View


EUT Bottom View

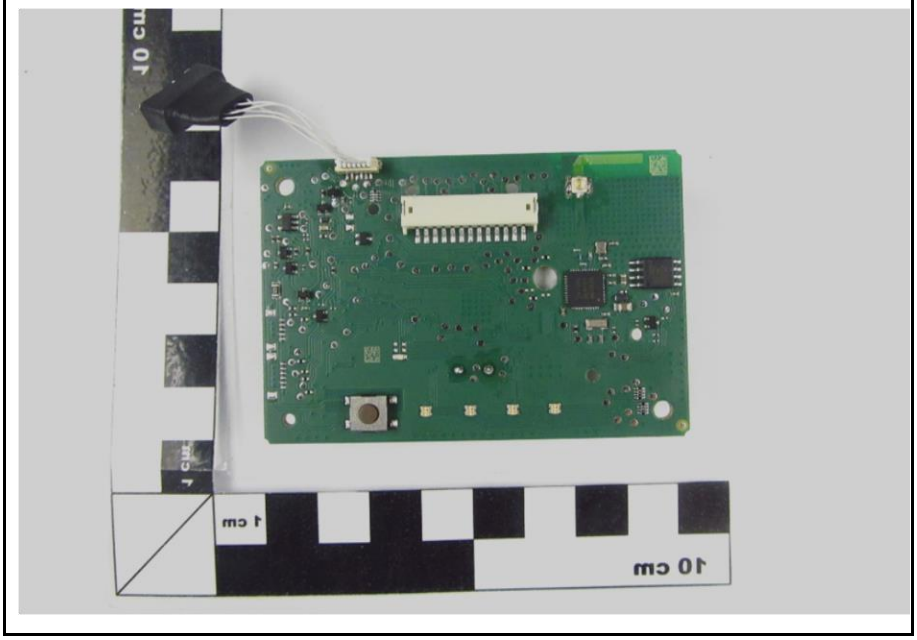

EUT Top View

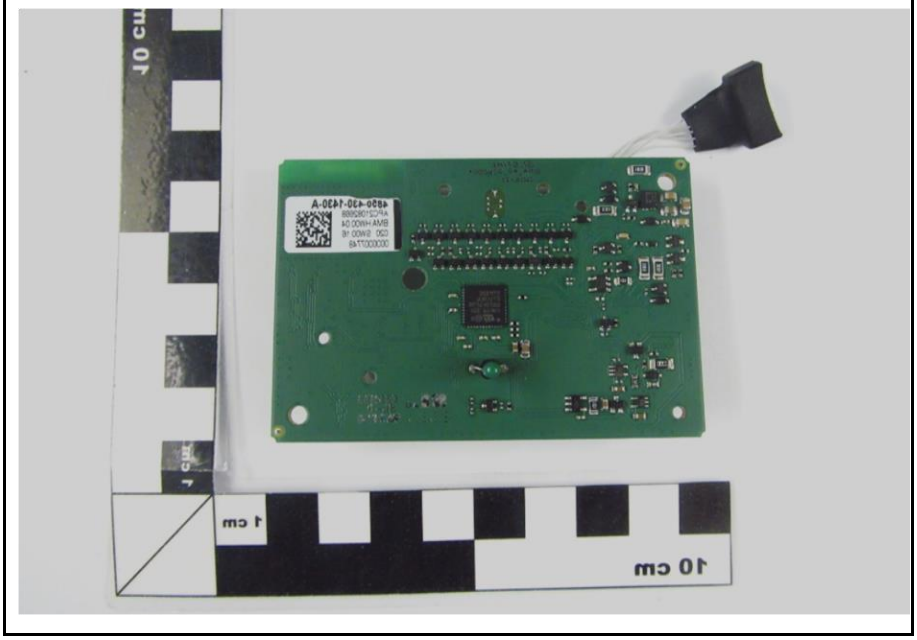
EUT Bottom View

EUT Side View (left)

EUT Side View (right)

1.2 Photos – Equipment Internal

PCB top view


PCB bottom view


1.3 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
CBL	USB to TTl serial adapter	DSD Tech	SH-UO9C	-
AE	Laptop	Lenovo	T440	-
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment:				

1.4 Test Modes

Mode	Description
1Mbit	Mode = Transmit Modulation = GFSK Spreading = None Payload= 37 bytes
Receive	Mode = Receive
Comment: --	

1.5 Test Frequencies

Designator	Mode	Channel	Frequency [MHz]
F1	Tx / Rx	0	2402
F2	Tx / Rx	19	2440
F3	Tx / Rx	39	2480

1.6 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/T	--
FCC § 15.247(a)(2) ISED RSS-247, Issue 3 (section 5.2)	6 dB Bandwidth	ANSI C63.10-2013	N/T	--
FCC § 15.247(b) ISED RSS-247, Issue 3 (section 5.4)	Maximum peak conducted power	ANSI C63.10-2013	N/T	--
FCC § 15.247(e) ISED RSS-247, Issue 3 (section 5.2)	Power spectral density	ANSI C63.10-2013	N/T	--
FCC § 15.207 ISED RSS-247, Issue 3 (section 3.1)	AC power line conducted emissions	ANSI C63.10-2013	PASS	--
FCC § 15.247(d) ISED RSS-247, Issue 3 (section 5.5)	Band edge compliance	ANSI C63.10-2013	N/T	--
FCC § 15.247(d) ISED RSS-247, Issue 3 (section 5.5)	Conducted spurious emissions	ANSI C63.10-2013	N/T	--
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 3 (section 3.1)	Receiver radiated spurious emissions	ANSI C63.4-2014	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 - AC powerline conducted emissions

3.1.1 Information

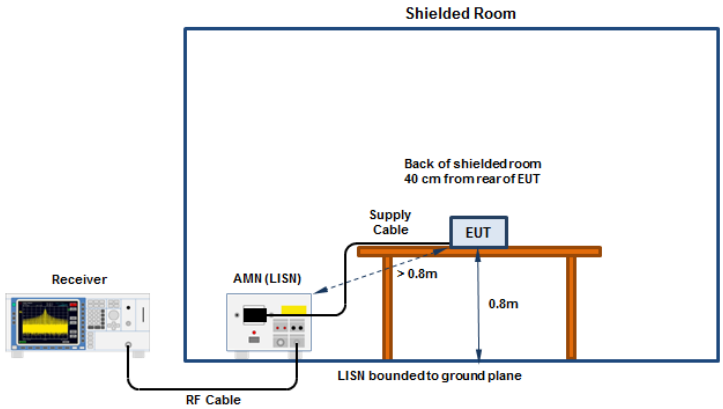
Test Information	
Reference	FCC § 15.207; ISED RSS-247, Issue 3 (section 3.1)
Measurement Method	ANSI C63.10 6.2
Measurement Uncertainty	± 3.82 dB
Operator	Jens Degenhardt
Date	2022-01-06

3.1.2 Limits

Limits		
Frequency [MHz]	Quasi-Peak [dBµV]	Average [dBµV]
0.15 - 0.5	66 - 56*	56 - 46*
0.5 - 5	56	46
5 - 30	60	50
* Limit decreases linearly with the logarithm of the frequency		

3.1.3 Setup

Test Setup



3.1.4 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
EMI Test Receiver	R&S	ESR7	EF00943	2021-08	2022-08
Pulse Limiter	R&S	ESH3-Z2	EF01222	2021-07	2022-07
LISN	Schwarzbeck	NSLK 8127 RC	EF01592	2021-07	2022-07

Conducted emissions at the mains power port
according to 47 CFR Part 15.247

Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Degenhardt
Test Date:	2022-01-06
Operating Conditions:	ambient temperature: 23 °Celsius power input: Charger AL300 (sample-ID: 38023)
LISN:	Schwarzbeck NSLK 8127 RC L
Operational Mode & EUT Configuration:	BT-LE, 2.444GHz, Tx
Applied to Port:	AC.cable of charger AL300 (sample-ID:38023)

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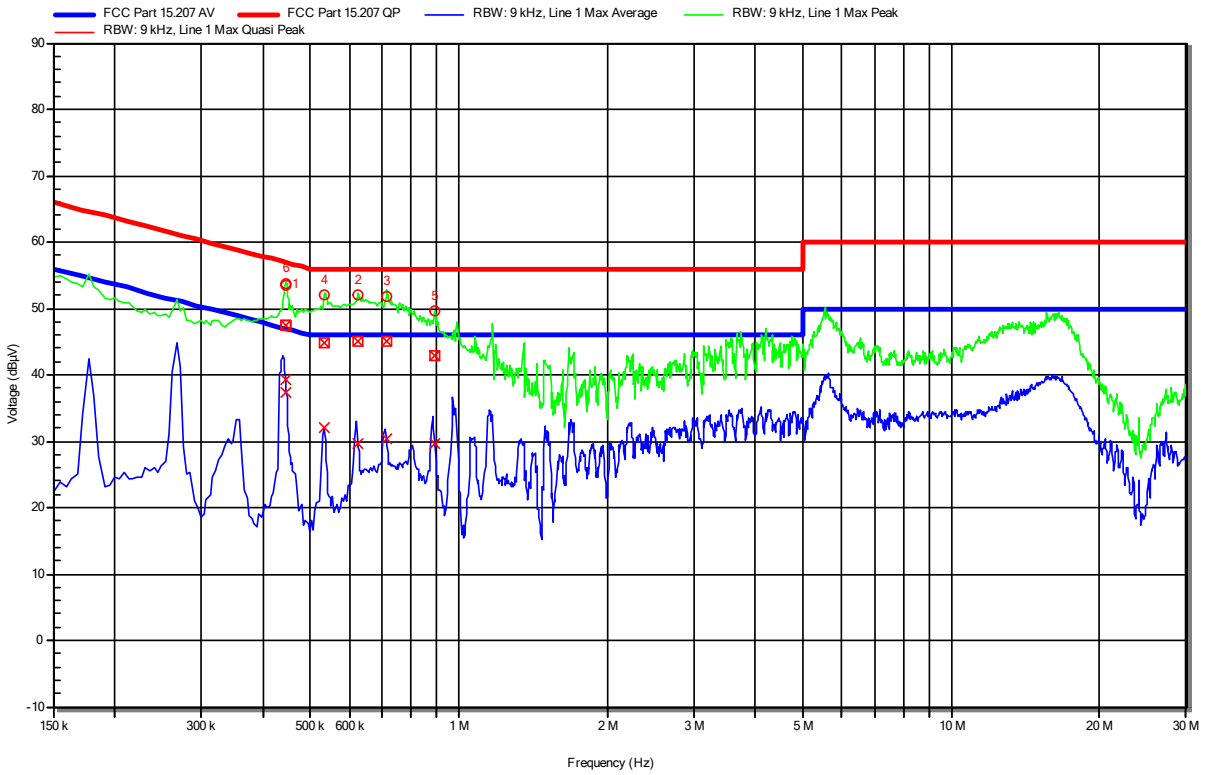
RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	447 kHz	47.5 dBµV	56.93 dBµV	-9.43 dB	Pass	Line 1
2	622.5 kHz	45.2 dBµV	56 dBµV	-10.8 dB	Pass	Line 1
3	712.5 kHz	45.2 dBµV	56 dBµV	-10.3 dB	Pass	Line 1
4	532.5 kHz	44.8 dBµV	56 dBµV	-11.2 dB	Pass	Line 1
5	892.5 kHz	42.8 dBµV	56 dBµV	-13.2 dB	Pass	Line 1
6	444.75 kHz	47.53 dBµV	56.97 dBµV	-9.44 dB	Pass	Line 1

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	447 kHz	37.32 dBµV	46.93 dBµV	-9.61 dB	Pass	Line 1
2	622.5 kHz	29.6 dBµV	46 dBµV	-16.4 dB	Pass	Line 1
3	712.5 kHz	30.4 dBµV	46 dBµV	-15.6 dB	Pass	Line 1
4	532.5 kHz	32.0 dBµV	46 dBµV	-14.0 dB	Pass	Line 1
5	892.5 kHz	29.7 dBµV	46 dBµV	-16.3 dB	Pass	Line 1
6	444.75 kHz	39.3 dBµV	46.97 dBµV	-7.7 dB	Pass	Line 1

Conducted emissions at the mains power port
according to 47 CFR Part 15.247

Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Degenhardt
Test Date:	2022-01-06
Operating Conditions:	ambient temperature: 23 °Celsius power input: Charger AL300 (sample-ID: 38023)
LISN:	Schwarzbeck NSLK 8127 RC N
Operational Mode & EUT Configuration:	BT-LE, 2.444GHz, Tx
Applied to Port:	AC.cable of charger AL300 (sample-ID:38023)

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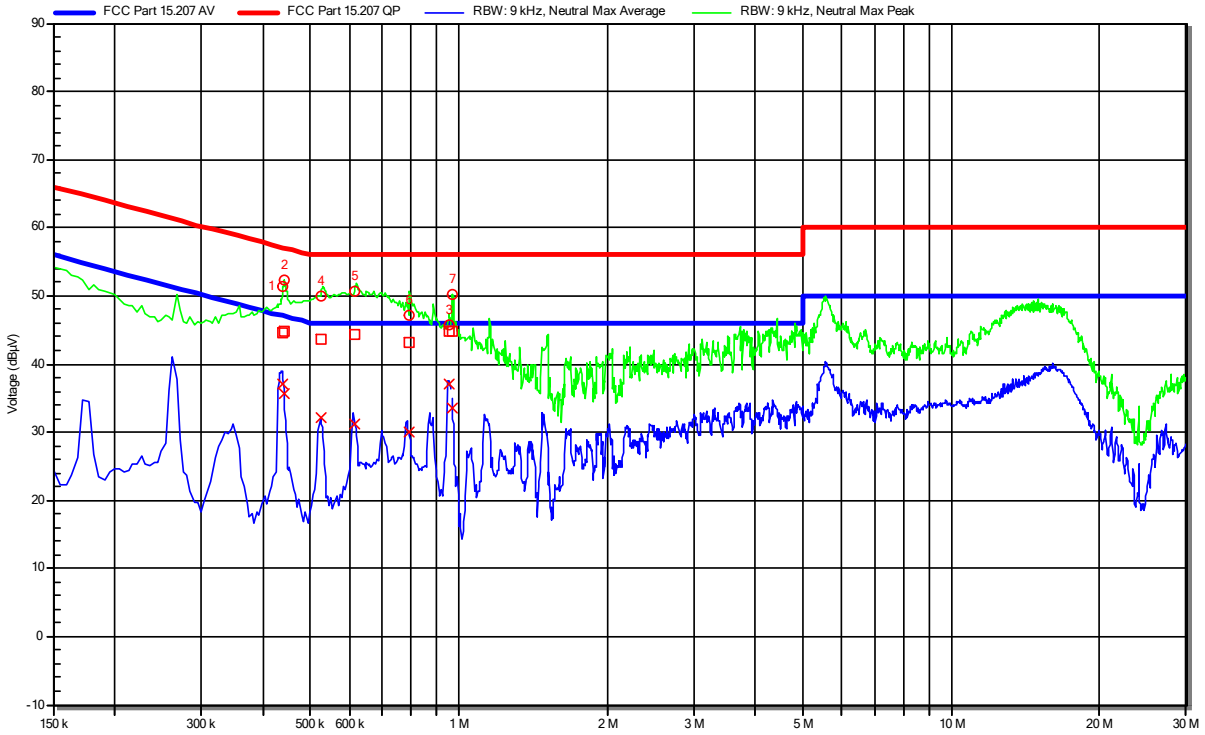
RadiMation

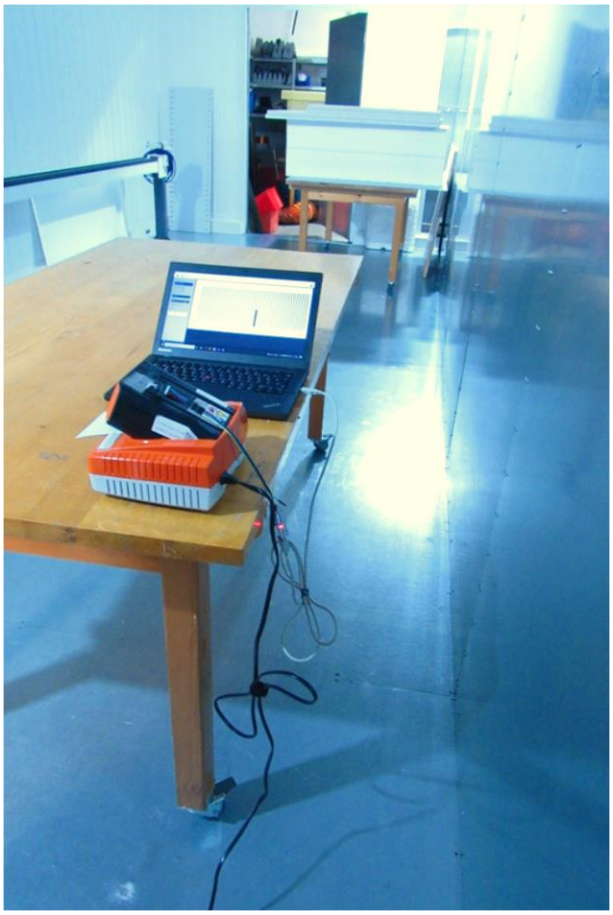


Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	440.25 kHz	44.46 dBµV	57.06 dBµV	-12.59 dB	Pass	Neutral
2	441.6 kHz	44.83 dBµV	57.03 dBµV	-12.2 dB	Pass	Neutral
3	955.5 kHz	44.89 dBµV	56 dBµV	-11.11 dB	Pass	Neutral
4	523.5 kHz	43.65 dBµV	56 dBµV	-12.35 dB	Pass	Neutral
5	613.5 kHz	44.34 dBµV	56 dBµV	-11.66 dB	Pass	Neutral
6	793.5 kHz	43.2 dBµV	56 dBµV	-12.8 dB	Pass	Neutral
7	970.35 kHz	44.9 dBµV	56 dBµV	-11.1 dB	Pass	Neutral

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	440.25 kHz	37.15 dBµV	47.06 dBµV	-9.91 dB	Pass	Neutral
2	441.6 kHz	35.62 dBµV	47.03 dBµV	-11.41 dB	Pass	Neutral
3	955.5 kHz	37.0 dBµV	46 dBµV	-9.0 dB	Pass	Neutral
4	523.5 kHz	32.5 dBµV	46 dBµV	-14.0 dB	Pass	Neutral
5	613.5 kHz	31.1 dBµV	46 dBµV	-14.7 dB	Pass	Neutral
6	793.5 kHz	30.5 dBµV	46 dBµV	-16.0 dB	Pass	Neutral
7	970.35 kHz	33.66 dBµV	46 dBµV	-12.34 dB	Pass	Neutral

3.1.5 Setup Photos

Setup 150kHz-30MHz


Setup 150kHz-30MHz


3.2 Test Conditions and Results - Transmitter radiated emissions

3.2.1 Information

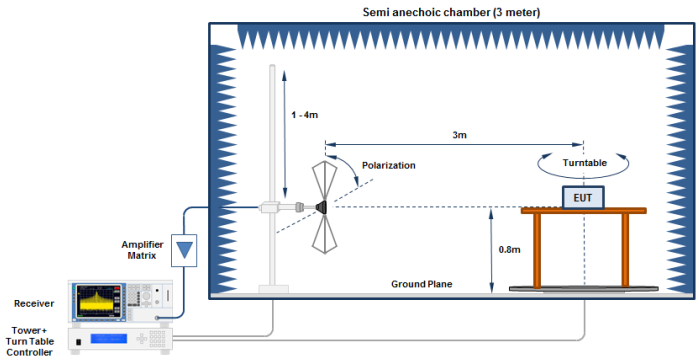
Test Information	
Reference	FCC § 15.247(d); FCC § 15.209; ISED RSS-Gen, Issue 5 A2 (section 6.13)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.10 6.4, 6.5, 6.6, 11.12
Operator	Jens Degenhardt
Date	2021-12-30

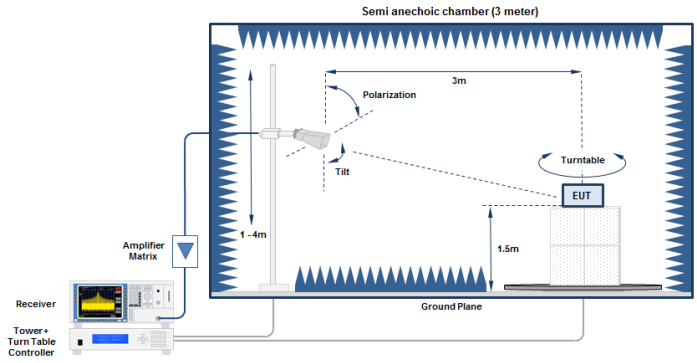
3.2.2 Limits

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

3.2.3 Setup

Test Setup 30 MHz - 1000 MHz



Test Setup > 1 GHz


3.2.4 Equipment

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

Test Equipment 30 - 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	2021-07	2022-07
Antenna	R&S	HK 116	EF00030	2021-05	2024-05
Antenna	R&S	HL 223	EF00212	2019-05	2022-05

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic chamber	Frankonia	AC 2	EF01616	2021-09	2022-09
Spectrum analyzer	R&S	FSU43	EF01631	2021-07	2022-07
Horn antenna	Schwarzbeck	BBHA 9120B	EF01678	2021-03	2022-03
Horn Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2022-03
Antenna	Amplifier Research	AT4560	EF00302	2021-06	2023-06

3.2.5 Procedure

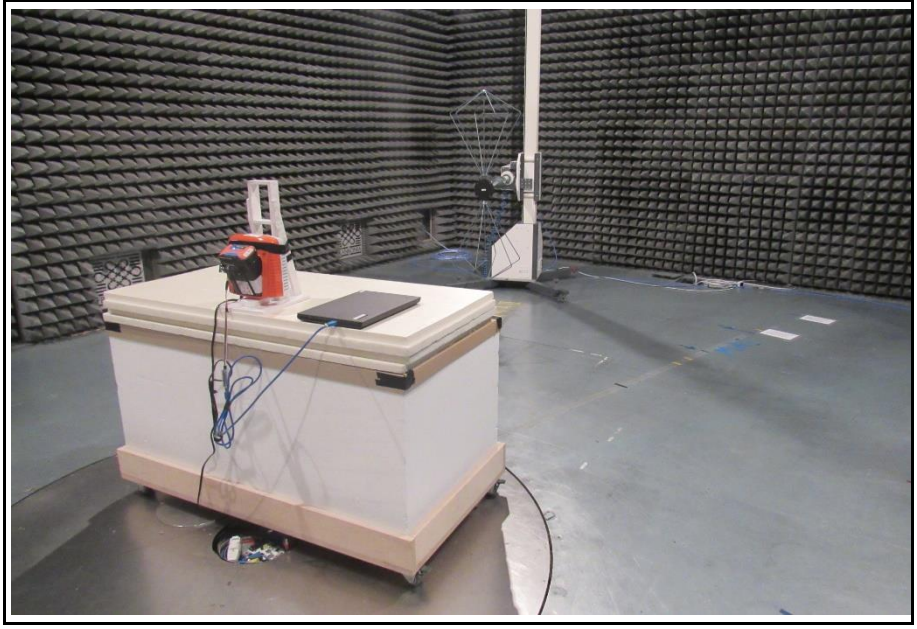
Test Procedure 30 MHz - 1000 MHz
1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground 2. EUT set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m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

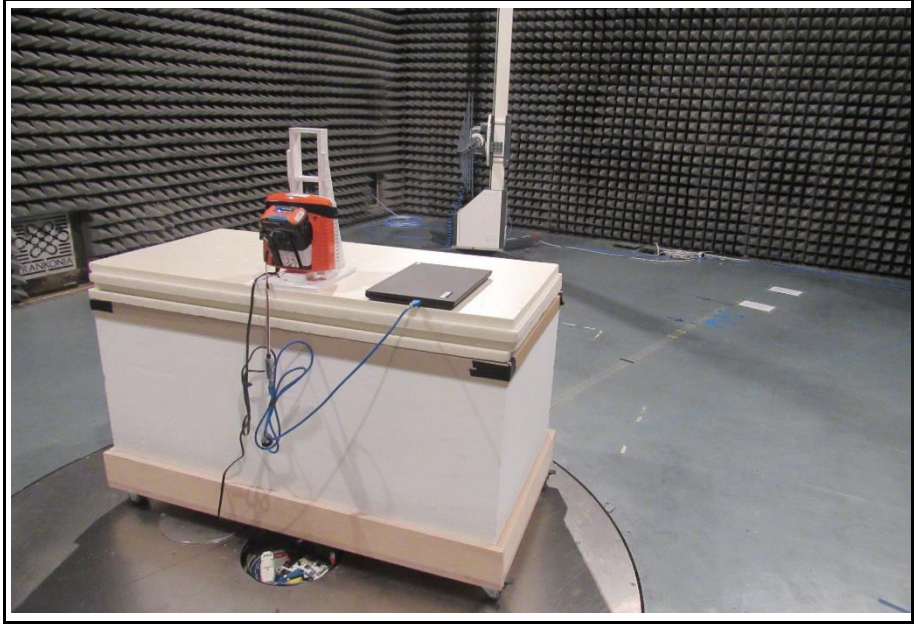
Test Procedure > 1 GHz
1. EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground 2. EUT set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m 5. All significant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

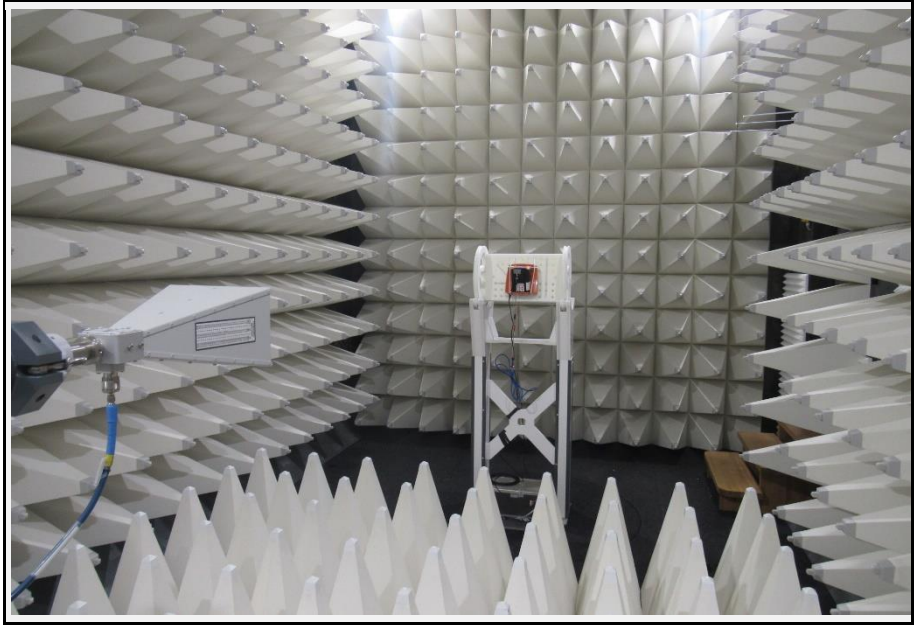
3.2.6 Results

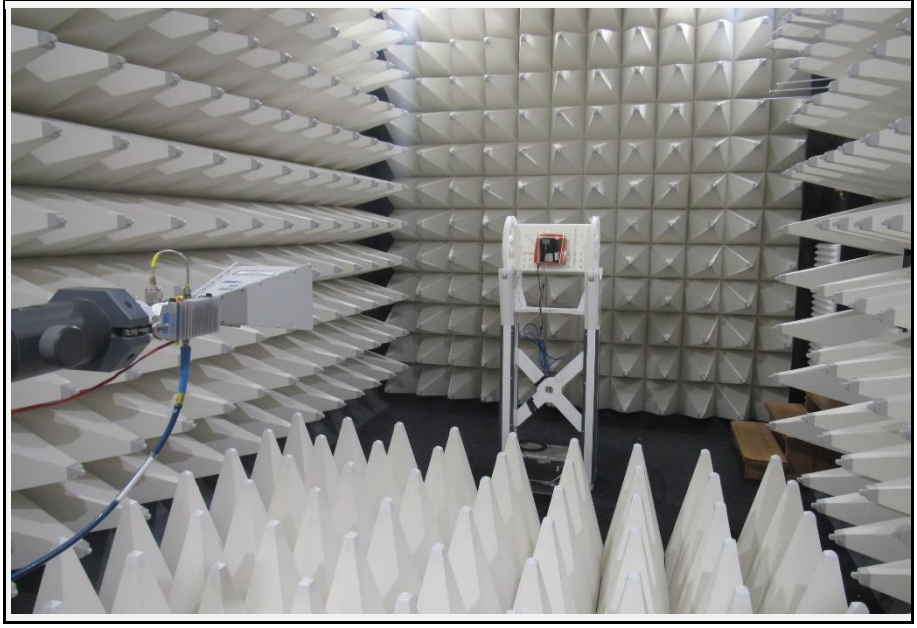
Test Results						
Channel [MHz]	Emission [MHz]	Level [dBµV/m]	Det.	Pol.	Limit [dBµV/m]	Margin [dB]
2402	192.2438	23.10	pk	hor	95.00	-71.93
2402	240	39.70	pk	hor	46.00	-06.34
2402	240	36.90	qpk	hor	46.00	-09.12
2402	2273.9	50.63	pk	hor	74.00	-23.37
2402	2273.9	46.27	avg	hor	54.00	-07.73
2402	2311.3	51.19	pk	hor	74.00	-22.81
2402	2311.3	47.05	avg	hor	54.00	-06.95
2402	2338.1	50.90	pk	hor	74.00	-23.10
2402	2338.1	45.53	avg	hor	54.00	-08.47
2402	2386.8	44.68	pk	hor	74.00	-29.32
2402	2386.8	34.93	avg	hor	54.00	-19.07
2402	2492.6	54.53	pk	hor	74.00	-19.47
2402	2492.6	51.89	avg	hor	54.00	-02.11
2402	4804.2	51.88	pk	hor	74.00	-22.12
2402	4804.2	46.53	avg	hor	54.00	-07.47
2440	192.01	23.50	pk	hor	95.00	-71.50
2440	240.04	40.10	pk	hor	46.00	-05.94
2440	240.04	38.50	qpk	hor	46.00	-07.53
2440	2312.1	50.97	pk	hor	74.00	-23.03
2440	2312.1	46.61	avg	hor	54.00	-07.39
2440	2329.1	50.52	pk	hor	74.00	-23.48
2440	2329.1	45.87	avg	hor	54.00	-08.13
2440	2331.8	51.77	pk	hor	74.00	-22.23
2440	2331.8	42.48	avg	hor	54.00	-11.52
2440	2349.4	51.57	pk	hor	74.00	-22.43
2440	2349.4	48.46	avg	hor	54.00	-05.54
2440	2376.2	53.44	pk	hor	74.00	-20.56
2440	2376.2	48.65	avg	hor	54.00	-05.35
2440	4879.6	46.14	pk	hor	74.00	-27.86
2440	4879.6	41.90	avg	hor	54.00	-12.10
2440	7319	51.13	pk	ver	74.00	-22.87
2440	7319	48.21	avg	ver	54.00	-05.79
2480	191.9718	23.00	pk	hor	95.00	-71.99
2480	240.04	39.80	pk	hor	46.00	-06.22
2480	240.04	38.50	qpk	hor	46.00	-07.55
2480	2352	54.64	pk	hor	74.00	-19.36
2480	2352	50.59	avg	hor	54.00	-03.41
2480	2496.1	44.34	pk	ver	74.00	-29.66
2480	2496.1	29.20	avg	ver	54.00	-24.80
2480	4959.8	45.73	pk	hor	74.00	-28.27
2480	4959.8	43.63	avg	hor	54.00	-10.37
2480	7439	55.73	pk	hor	74.00	-18.27
2480	7439	51.04	avg	hor	54.00	-02.96

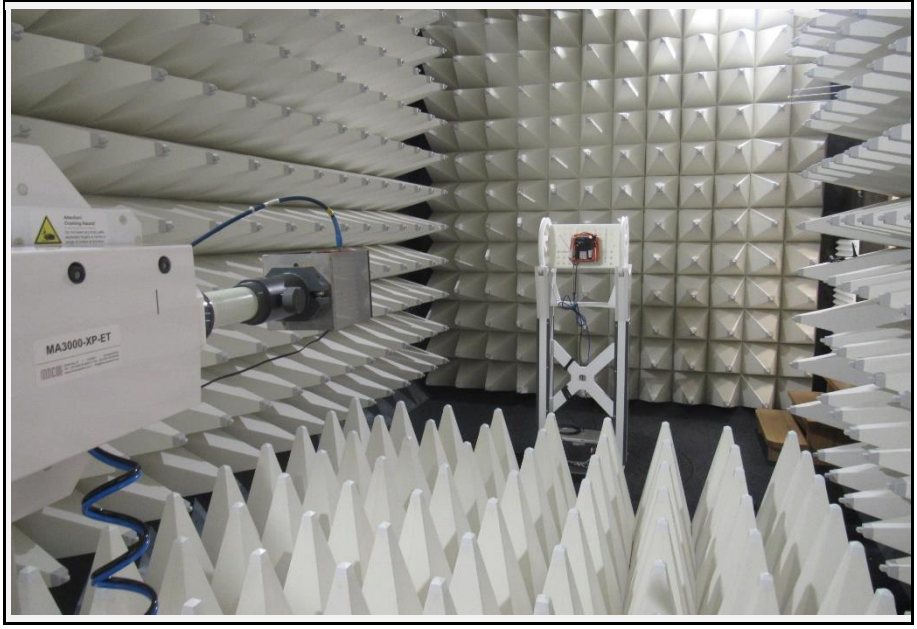
3.2.7 Setup Photos

Setup 30-200MHz


Setup 0.2-1GHz


Setup 1-8GHz


Setup 8-18GHz


Setup 18-26.5GHz


3.3 Test Conditions and Results - Receiver radiated emissions

3.3.1 Information

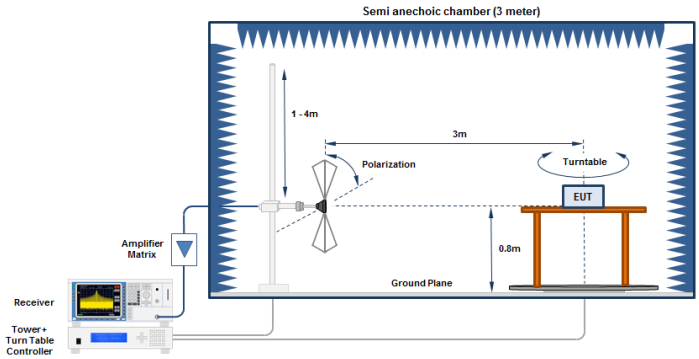
Test Information	
Reference	ISED RSS-247, Issue 3 (section 3.1)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.4-2014 8.1-8.3
Operator	Jens Degenhardt
Date	2021-12-16

3.3.2 Limits

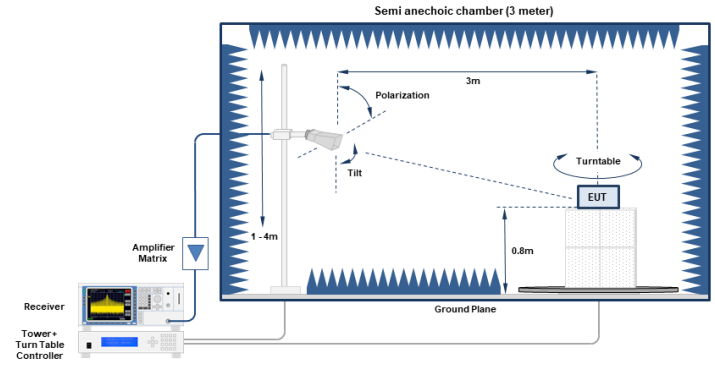
Limits			
Frequency range [MHz]	Detector	Field strength [µV/m]	Measurement distance [m]
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.3.3 Setup

Test Setup 30 MHz - 1000 MHz



Test Setup > 1 GHz



3.3.4 Equipment

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

Test Equipment 30 - 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	2021-07	2022-07
Antenna	R&S	HK 116	EF00030	2021-05	2024-05
Antenna	R&S	HL 223	EF00212	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	2021-07	2022-07
Horn antenna	Schwarzbeck	BBHA 9120B	EF01678	2021-03	2022-03
Horn Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2022-03

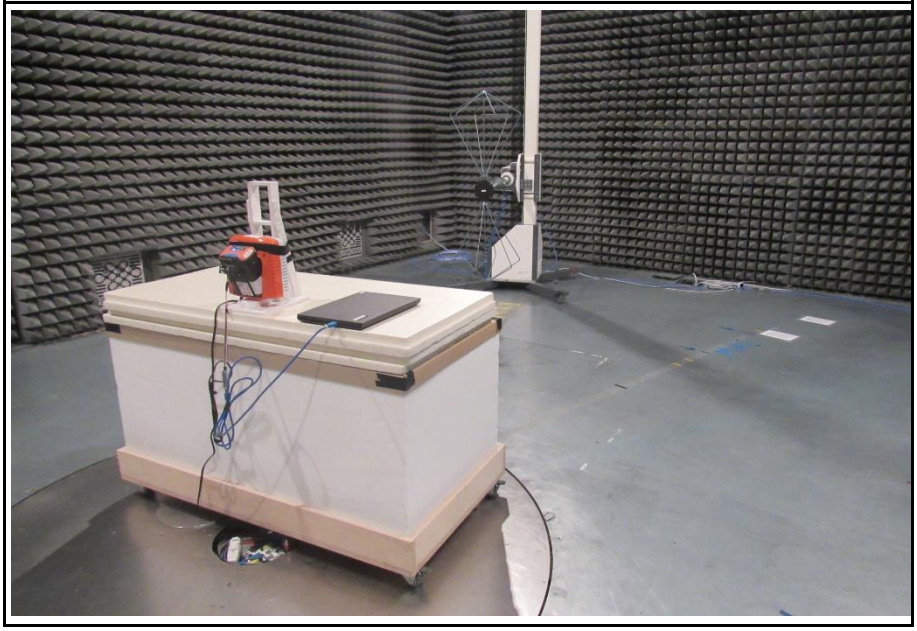
3.3.5 Procedure

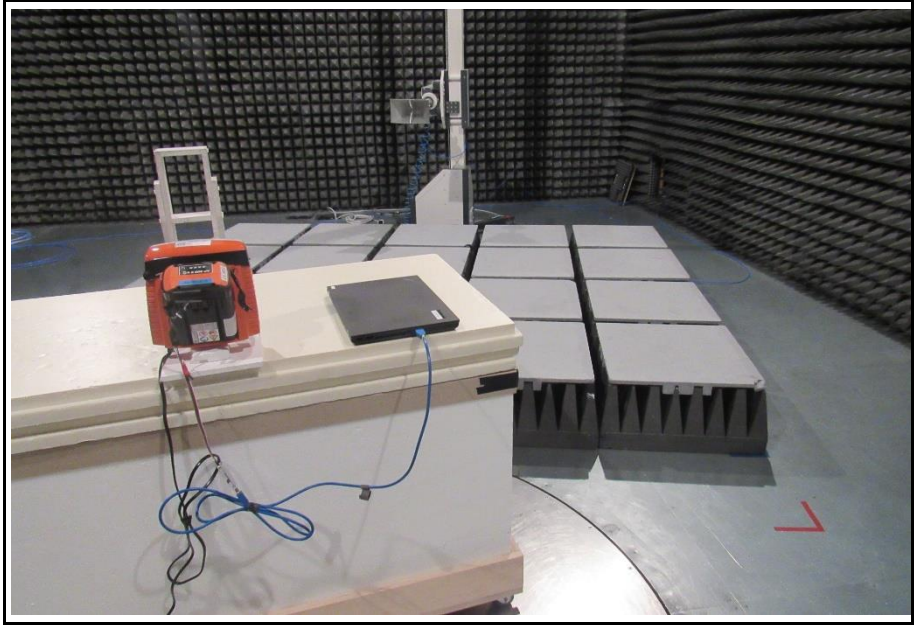
Test Procedure
1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground
2. EUT is set to test mode
3. The receiver is set to peak detection with max hold
4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5. All significant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

3.3.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dBµV/m]	Det.	Pol.	Limit [dBµV/m]	Margin [dB]
2440	48	20.00	pk	ver	40.00	-19.99
2440	240	39.40	pk	hor	46.00	-06.63
2440	240	38.00	qpk	hor	46.00	-08.02
2440	4878	45.85	pk	hor	74.00	-28.15
2440	4878	42.04	avg	hor	53.98	-11.94
2440	17890	47.61	pk	ver	74.00	-26.39
2440	17890	39.56	avg	ver	53.98	-14.42

3.3.7 Setup Photos

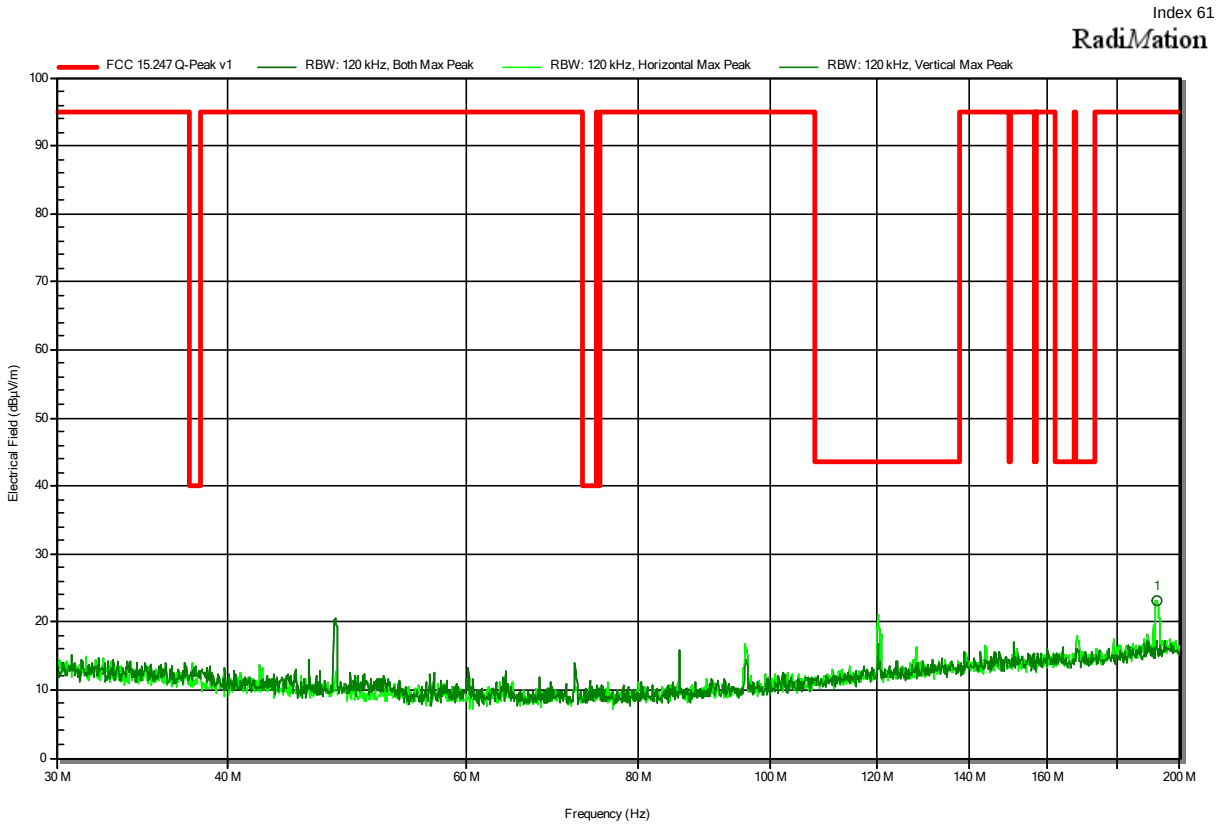
Setup < 1 GHz


Setup > 1 GHz


ANNEX A Transmitter spurious emissions

Radiated Spurious Emissions according to 47 CFR Part 15.247

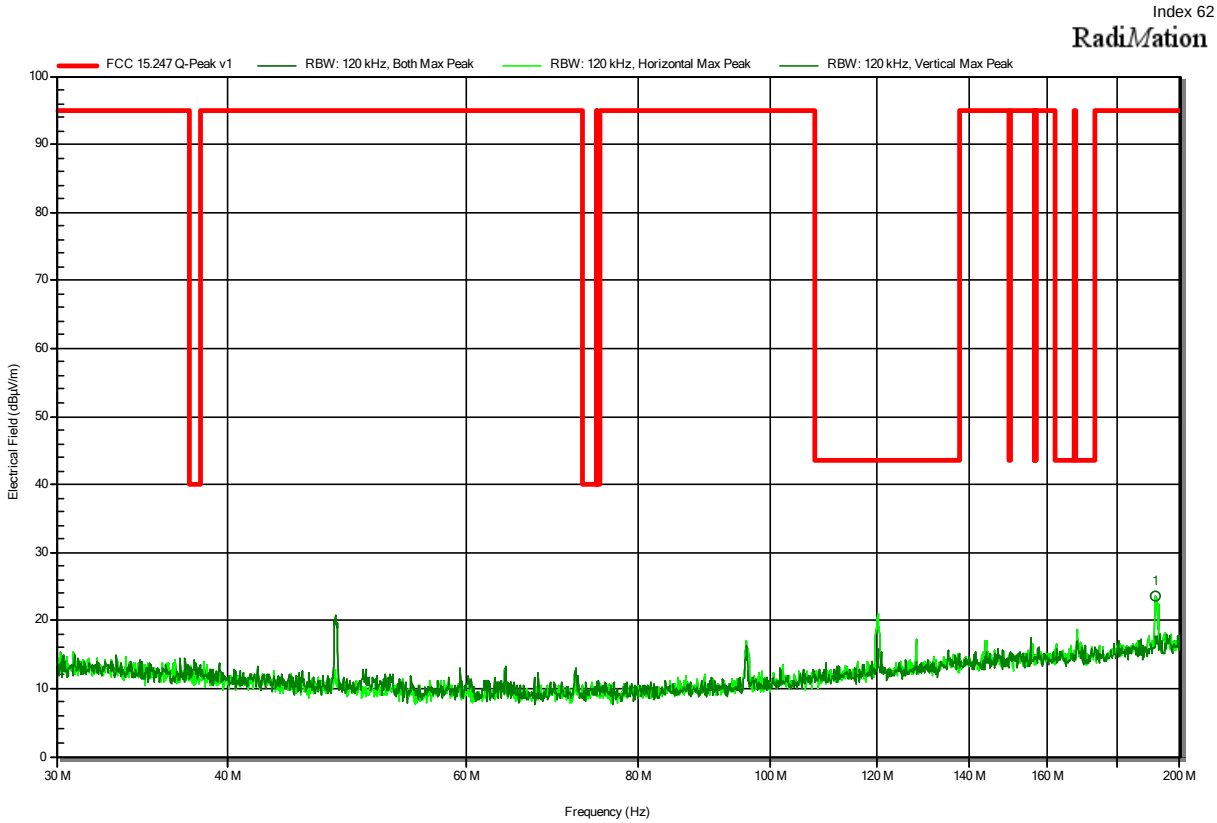
Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Degenhardt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Rohde & Schwarz HK 116
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.402GHz
Test Date:	2021-12-20
Note:	EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
192.2438 MHz	23.1 dBµV/m	95 dBµV/m	-71.93 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

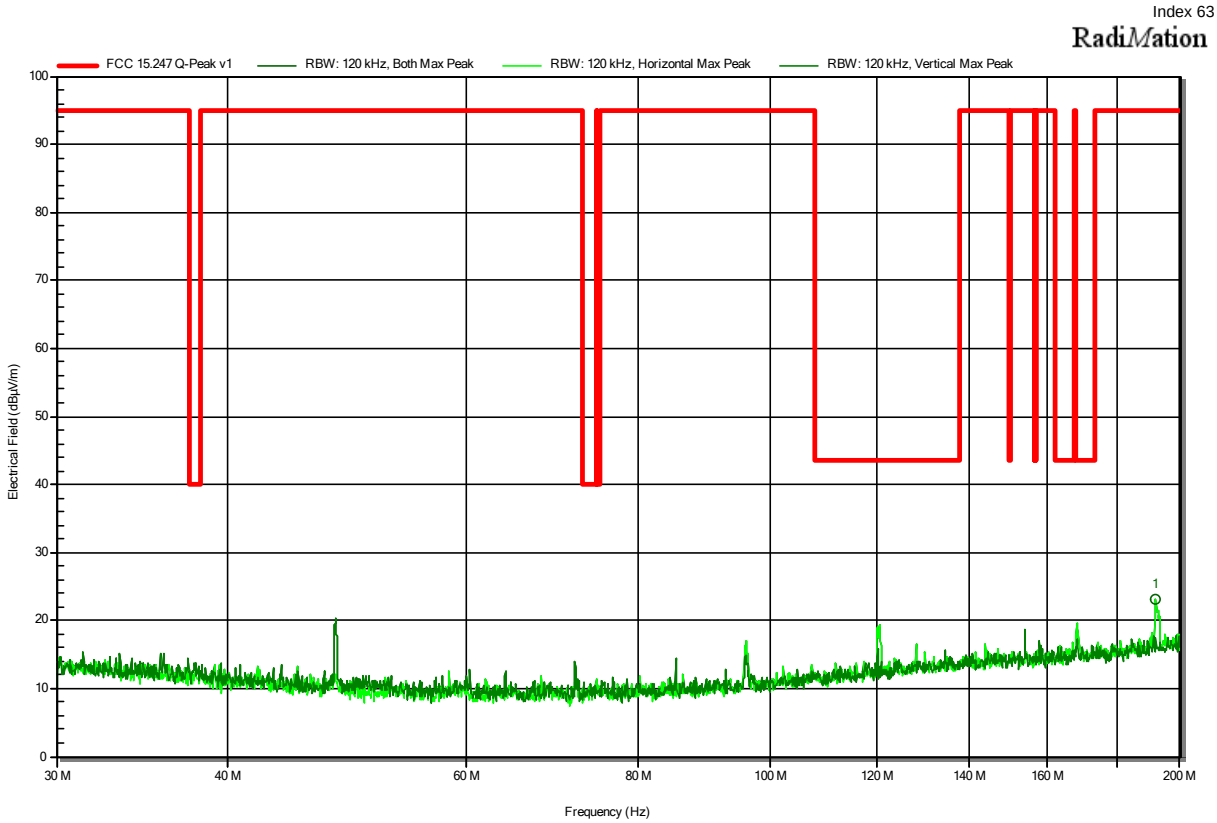
Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Degenhardt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Rohde & Schwarz HK 116
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.44GHz
Test Date:	2021-12-20
Note:	EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
192.01 MHz	23.5 dBµV/m	95 dBµV/m	-71.5 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

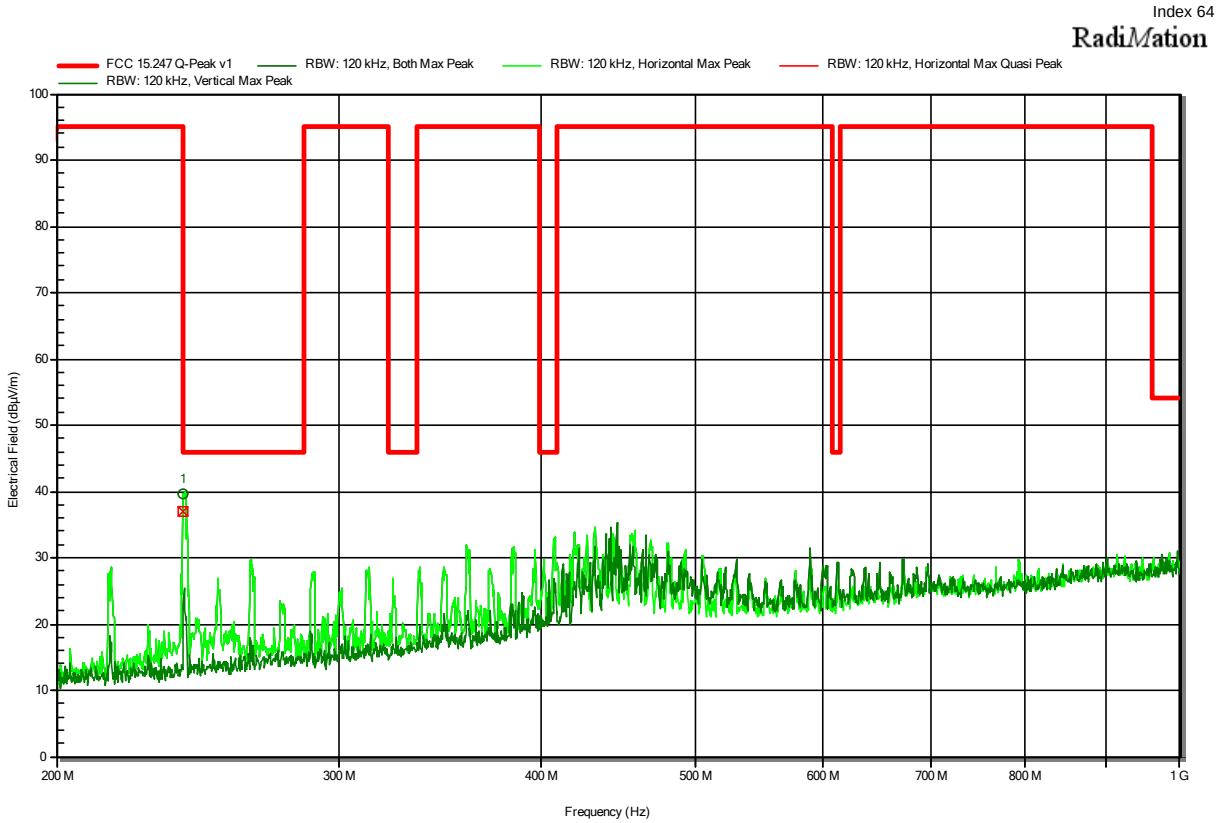
Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Degenhardt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Rohde & Schwarz HK 116
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.48GHz
Test Date:	2021-12-20
Note:	EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
191.9718 MHz	23 dBµV/m	95 dBµV/m	-71.99 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Degenhardt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Rohde & Schwarz HL 223
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.402GHz
Test Date:	2021-12-20
Note:	EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
240 MHz	39.7 dBµV/m	46 dBµV/m	-6.34 dB	Pass	Horizontal

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Polarization
240 MHz	36.9 dBµV/m	46 dBµV/m	-9.12 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

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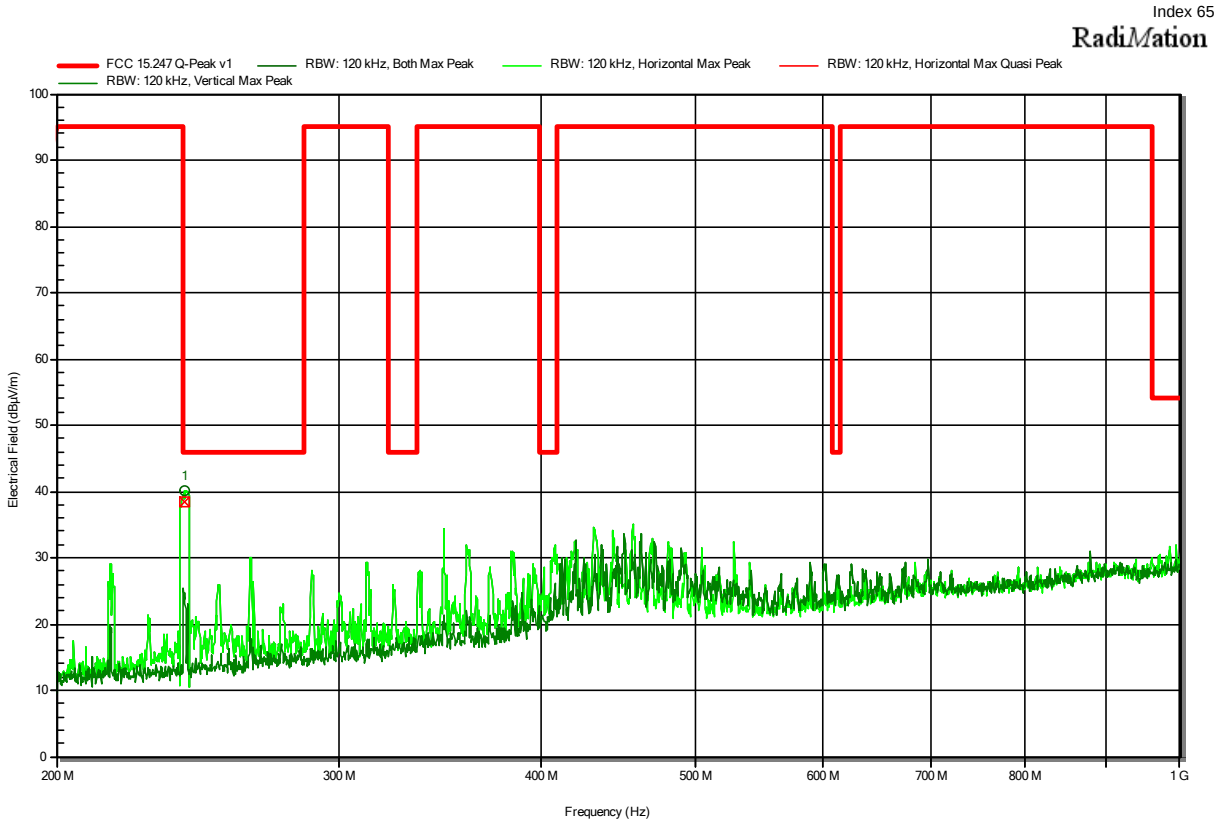
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Degenhardt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Rohde & Schwarz HL 223
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.44GHz
Test Date:	2021-12-20
Note:	EUT vertical

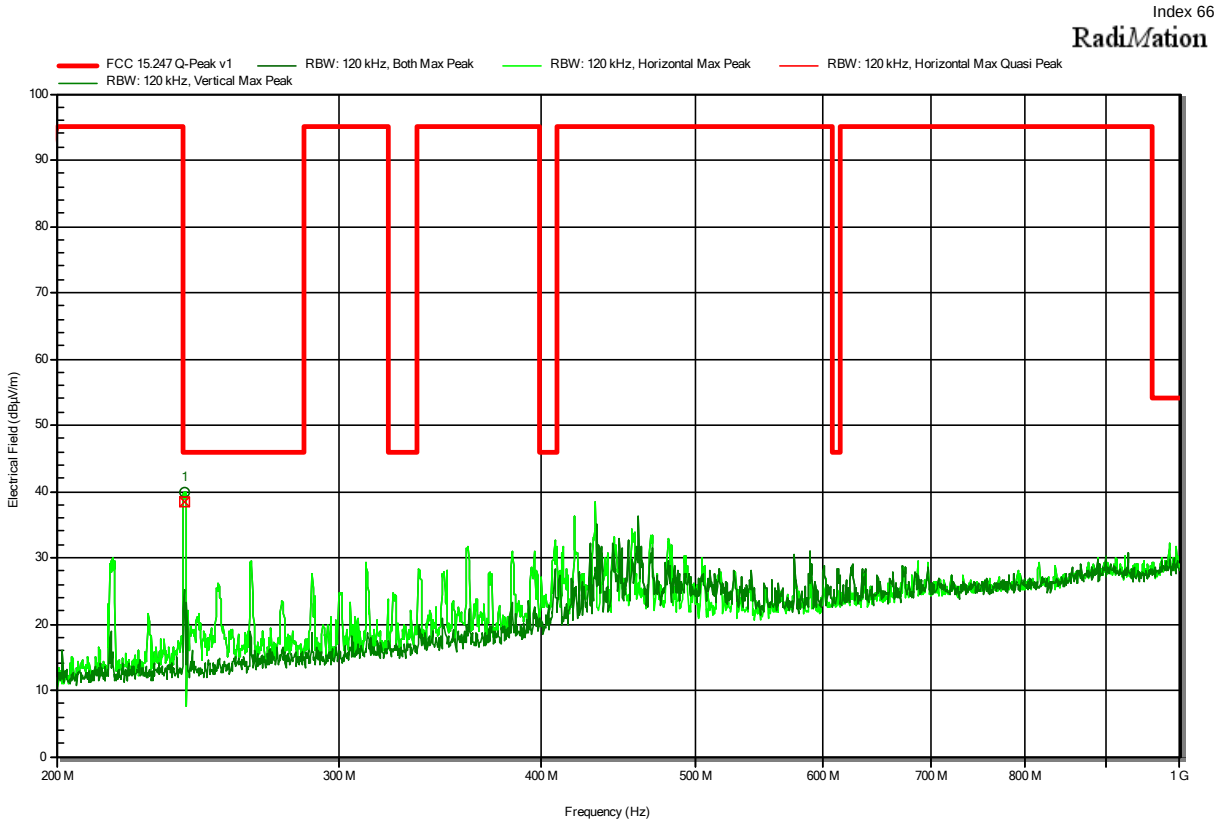


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
240.04 MHz	40.1 dBµV/m	46 dBµV/m	-5.94 dB	Pass	Horizontal

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Polarization
240.04 MHz	38.5 dBµV/m	46 dBµV/m	-7.53 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Degenhardt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Rohde & Schwarz HL 223
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.48GHz
Test Date:	2021-12-20
Note:	EUT vertical

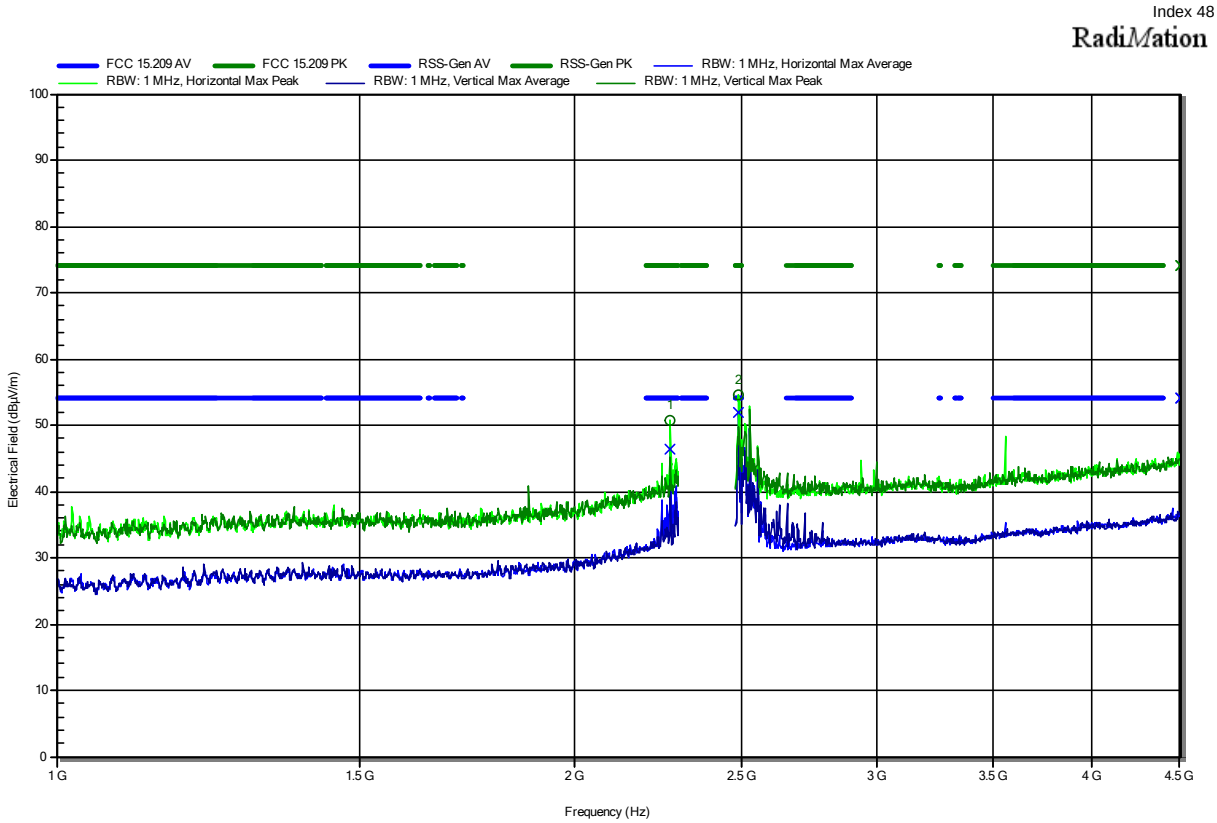


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
240.04 MHz	39.8 dBµV/m	46 dBµV/m	-6.22 dB	Pass	Horizontal

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Polarization
240.04 MHz	38.5 dBµV/m	46 dBµV/m	-7.55 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Degenhardt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Schwarzbeck BBHA 9120D
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.402GHz
Test Date:	2021-12-17
Note:	EUT vertical

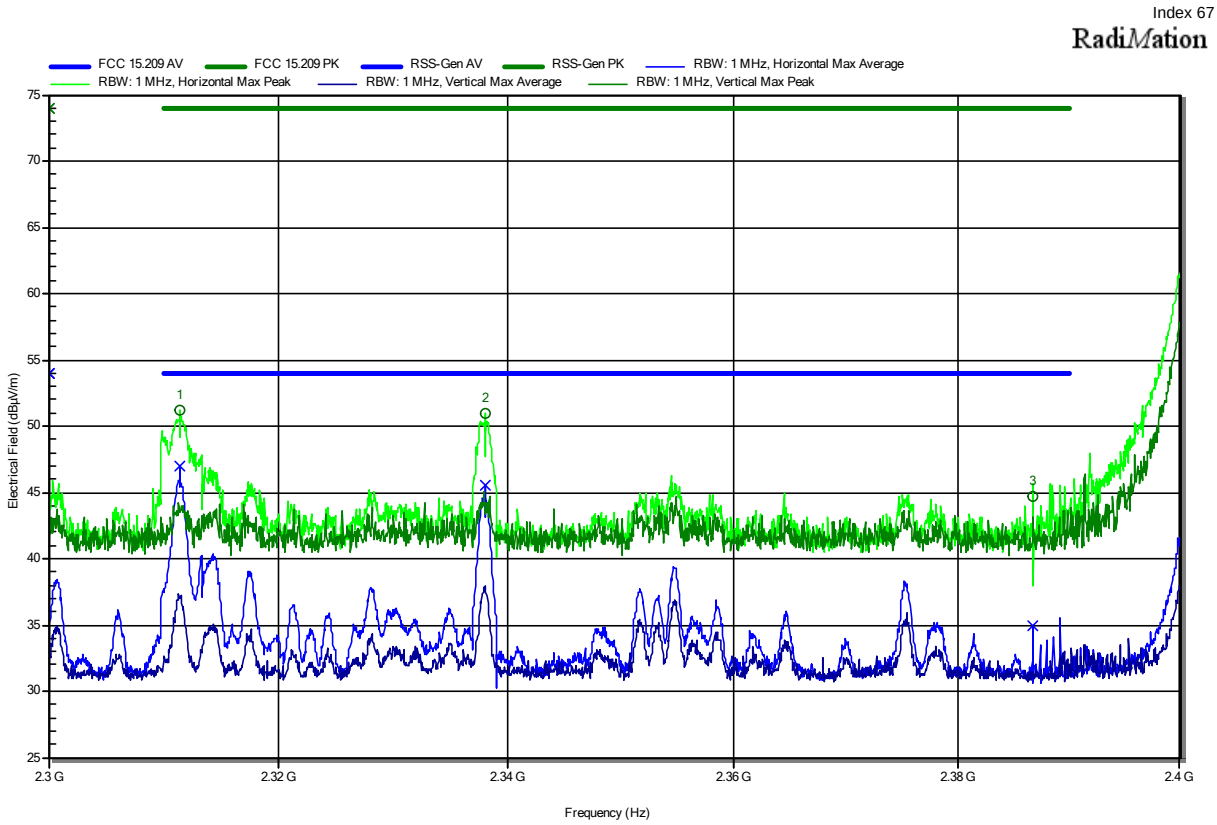


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.2739 GHz	50.63 dBµV/m	74 dBµV/m	-23.37 dB	Pass	Horizontal
2.4926 GHz	54.53 dBµV/m	74 dBµV/m	-19.47 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.2739 GHz	46.27 dBµV/m	54 dBµV/m	-7.73 dB	Pass	Horizontal
2.4926 GHz	51.89 dBµV/m	54 dBµV/m	-2.11 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Degenhardt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Schwarzbeck BBHA 9120D
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.402GHz
Test Date:	2021-12-20
Note:	EUT vertical Marker 1 : at 195cm height

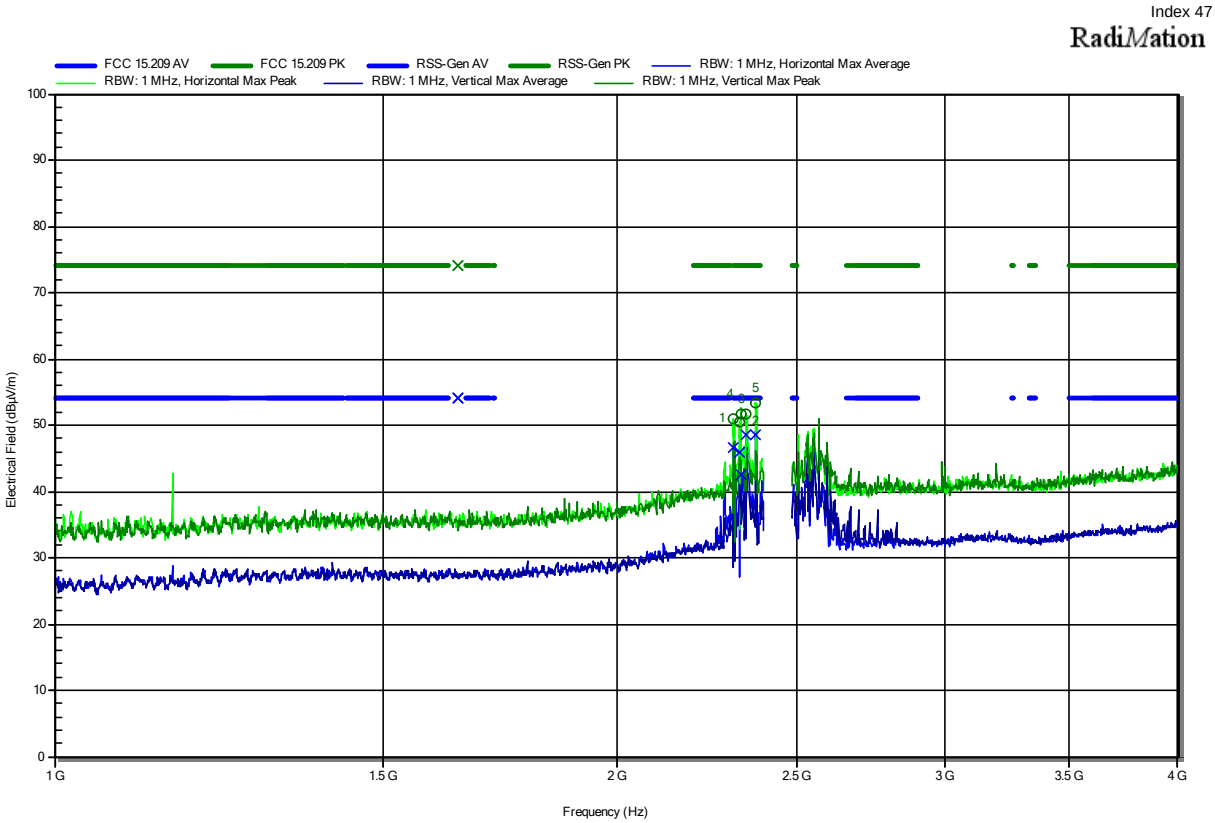


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.3113 GHz	51.19 dBµV/m	74 dBµV/m	-22.81 dB	Pass	Horizontal
2.3381 GHz	50.9 dBµV/m	74 dBµV/m	-23.1 dB	Pass	Horizontal
2.3868 GHz	44.68 dBµV/m	74 dBµV/m	-29.32 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.3113 GHz	47.05 dBµV/m	54 dBµV/m	-6.95 dB	Pass	Horizontal
2.3381 GHz	45.53 dBµV/m	54 dBµV/m	-8.47 dB	Pass	Horizontal
2.3868 GHz	34.93 dBµV/m	54 dBµV/m	-19.07 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Degenhardt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Schwarzbeck BBHA 9120D
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.44GHz
Test Date:	2021-12-17
Note:	EUT vertical

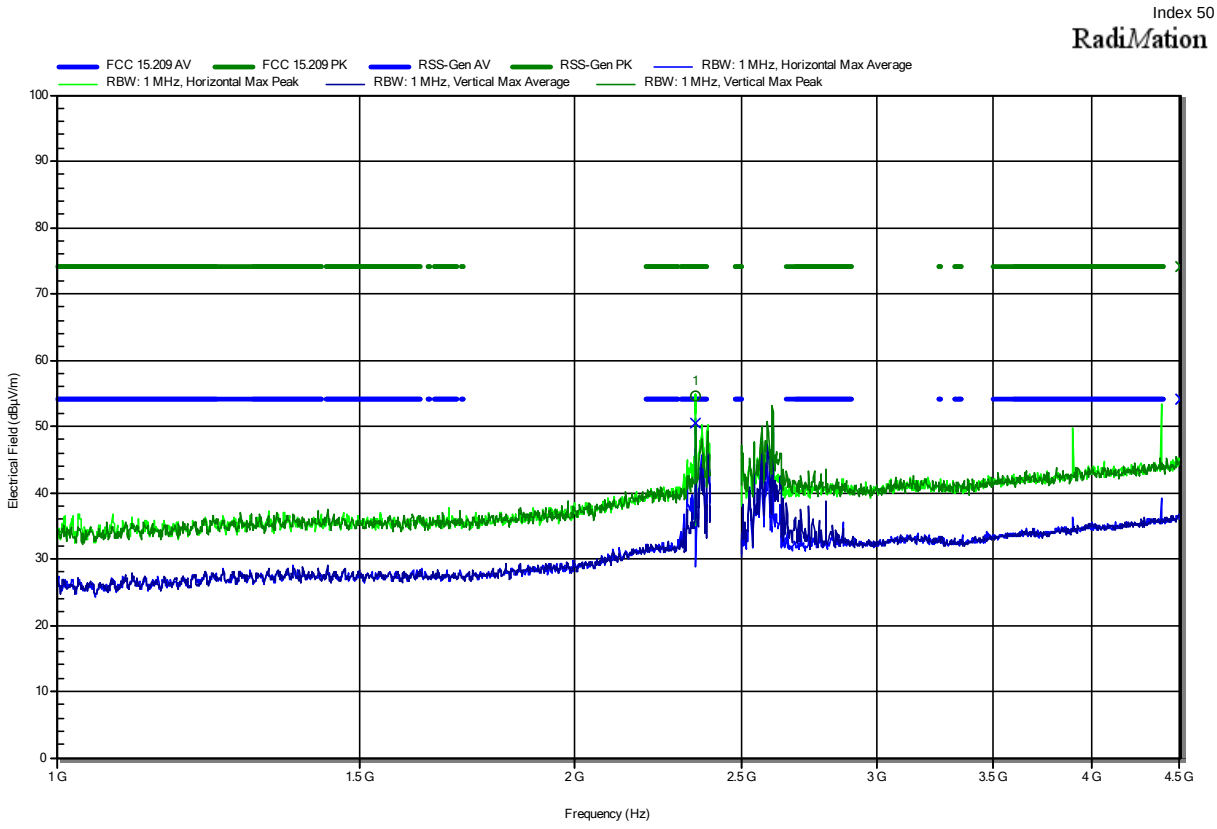


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.3121 GHz	50.97 dBµV/m	74 dBµV/m	-23.03 dB	Pass	Horizontal
2.3291 GHz	50.52 dBµV/m	74 dBµV/m	-23.48 dB	Pass	Horizontal
2.3318 GHz	51.77 dBµV/m	74 dBµV/m	-22.23 dB	Pass	Horizontal
2.3494 GHz	51.57 dBµV/m	74 dBµV/m	-22.43 dB	Pass	Horizontal
2.3762 GHz	53.44 dBµV/m	74 dBµV/m	-20.56 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.3121 GHz	46.61 dBµV/m	54 dBµV/m	-7.39 dB	Pass	Horizontal
2.3291 GHz	45.87 dBµV/m	54 dBµV/m	-8.13 dB	Pass	Horizontal
2.3318 GHz	42.48 dBµV/m	54 dBµV/m	-11.52 dB	Pass	Horizontal
2.3494 GHz	48.46 dBµV/m	54 dBµV/m	-5.54 dB	Pass	Horizontal
2.3762 GHz	48.65 dBµV/m	54 dBµV/m	-5.35 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Degenhardt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Schwarzbeck BBHA 9120D
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.48GHz
Test Date:	2021-12-17
Note:	EUT vertical



Frequency 2.352 GHz	Peak 54.64 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -19.36 dB	Peak Status Pass	Polarization Horizontal
Frequency 2.352 GHz	Average 50.59 dBµV/m	Average Limit 54 dBµV/m	Average Difference -3.41 dB	Average Status Pass	Polarization Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

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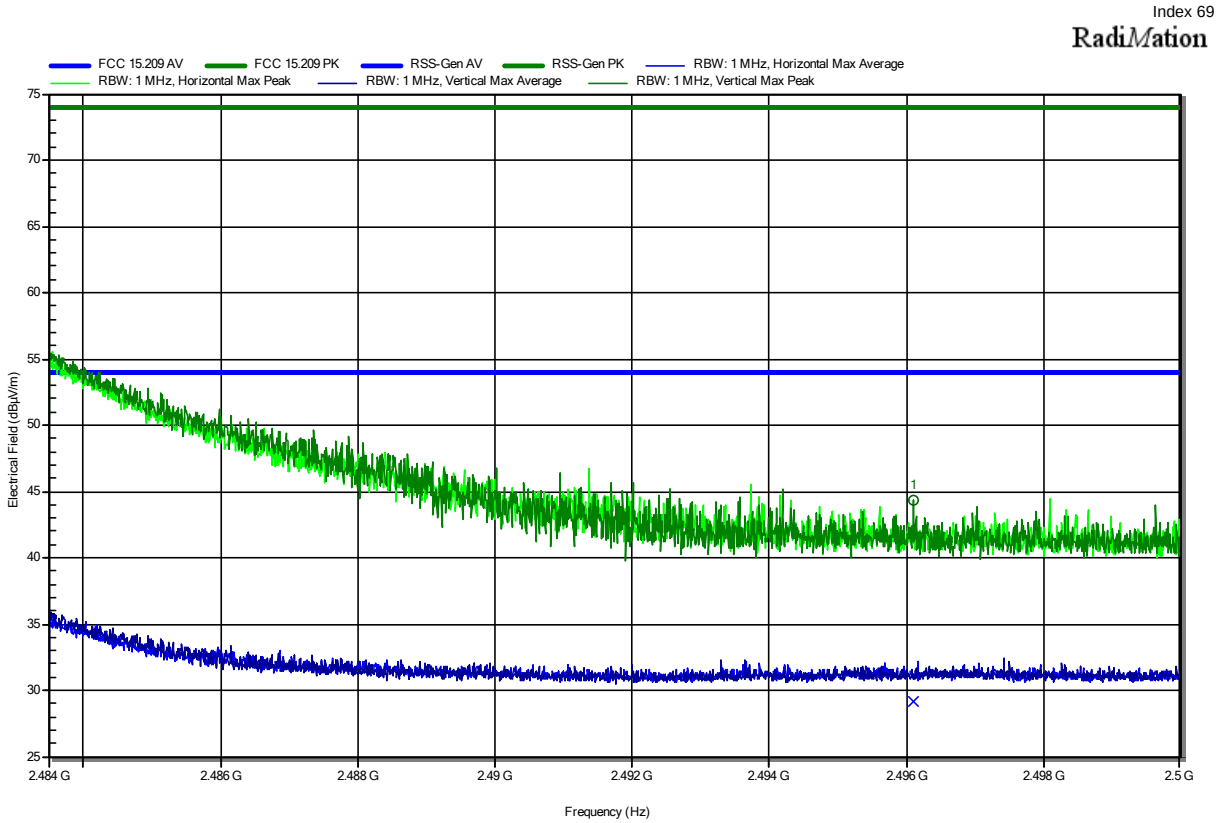
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Degenhardt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Schwarzbeck BBHA 9120D
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.48GHz
Test Date:	2021-12-20
Note:	EUT vertical

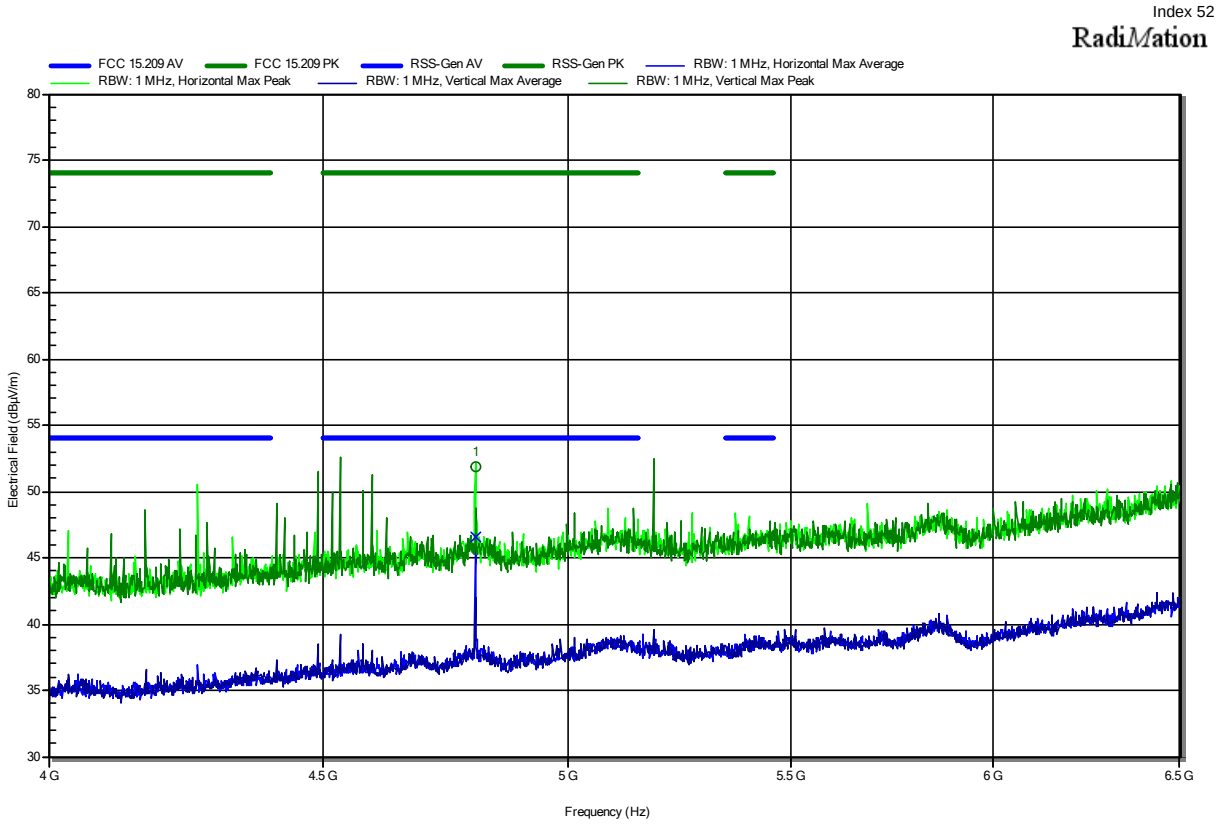


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.4961 GHz	44.34 dBµV/m	74 dBµV/m	-29.66 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.4961 GHz	29.2 dBµV/m	54 dBµV/m	-24.8 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Qawasmeh
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Schwarzbeck BBHA 9120D
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.402GHz
Test Date:	2021-12-17
Note:	EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.8042 GHz	51.88 dBµV/m	74 dBµV/m	-22.12 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.8042 GHz	46.53 dBµV/m	54 dBµV/m	-7.47 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number:	G0M-2106-9856
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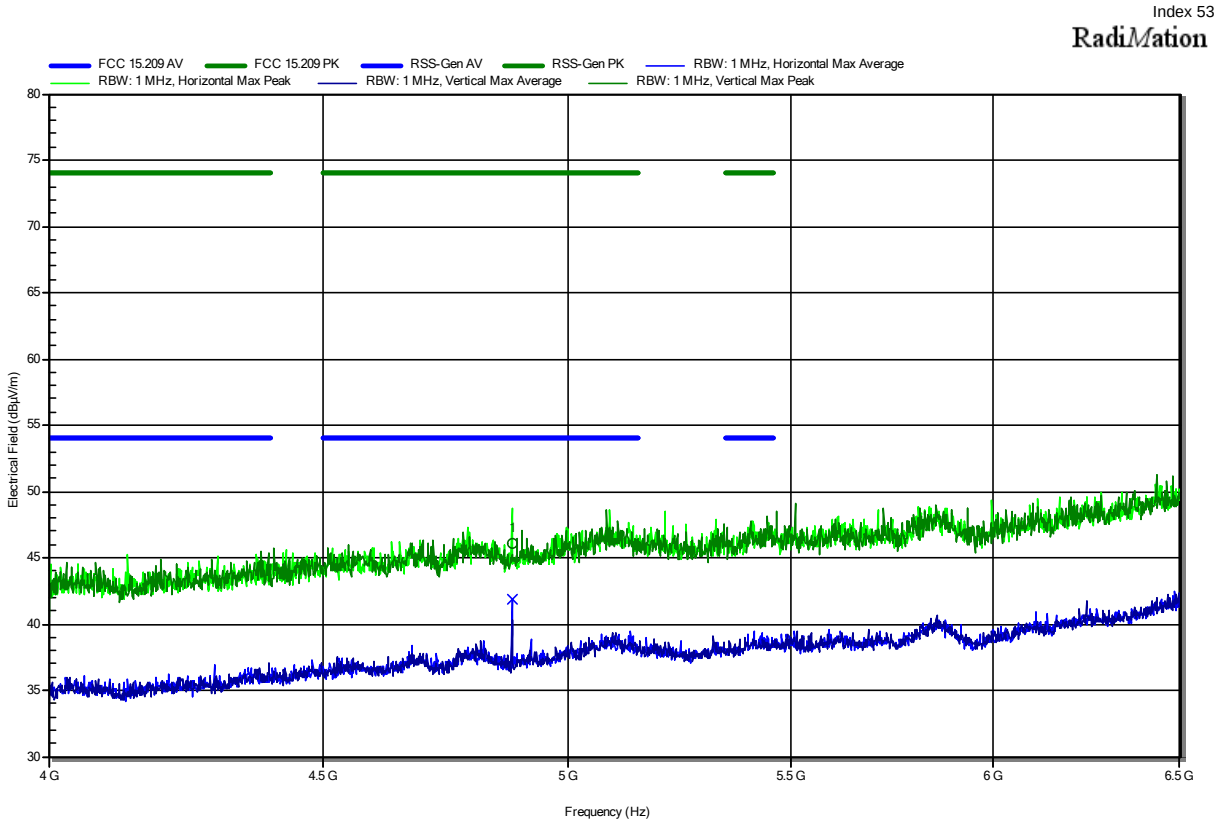
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Qawasmeh
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Schwarzbeck BBHA 9120D
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.44GHz
Test Date:	2021-12-17
Note:	EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.8796 GHz	46.14 dBµV/m	74 dBµV/m	-27.86 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.8796 GHz	41.9 dBµV/m	54 dBµV/m	-12.1 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

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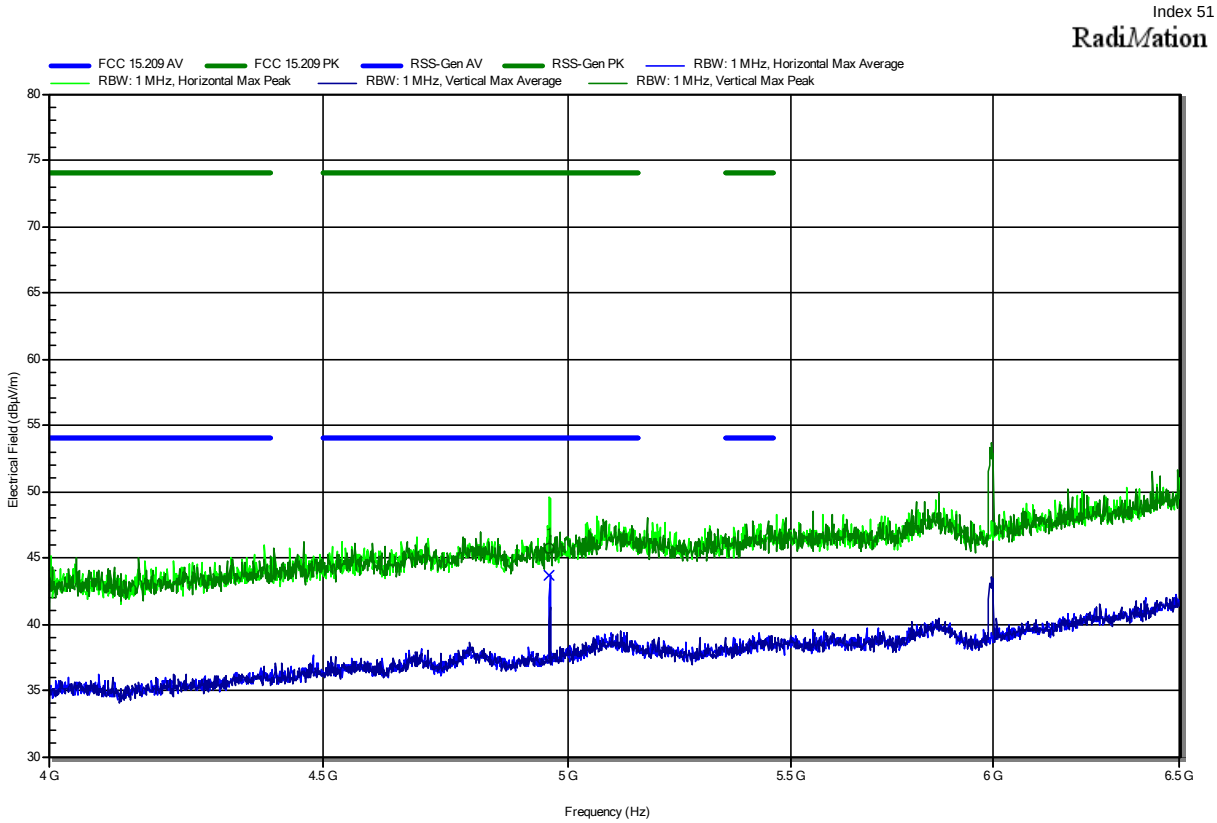
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Qawasmeh
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Schwarzbeck BBHA 9120D
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.48GHz
Test Date:	2021-12-17
Note:	EUT vertical

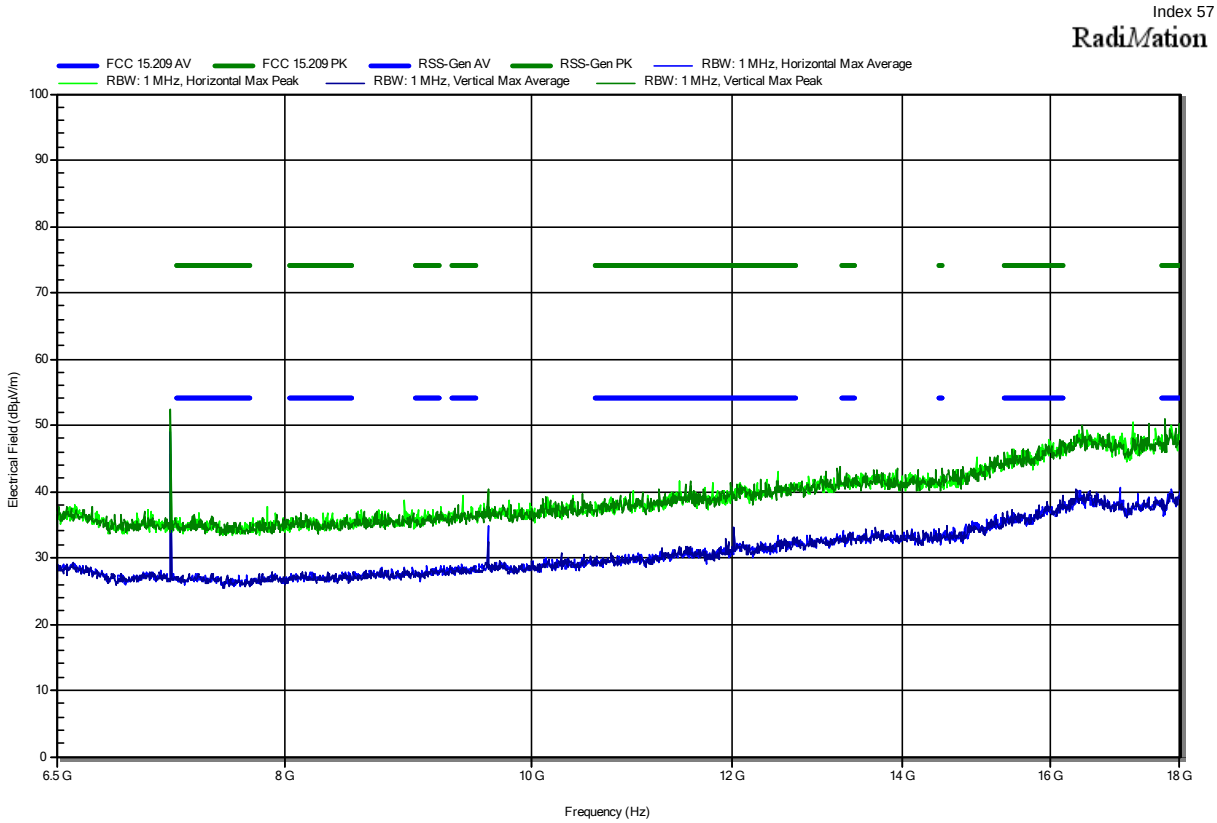


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
4.9598 GHz	45.73 dBµV/m	74 dBµV/m	-28.27 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
4.9598 GHz	43.63 dBµV/m	54 dBµV/m	-10.37 dB	Pass	Horizontal

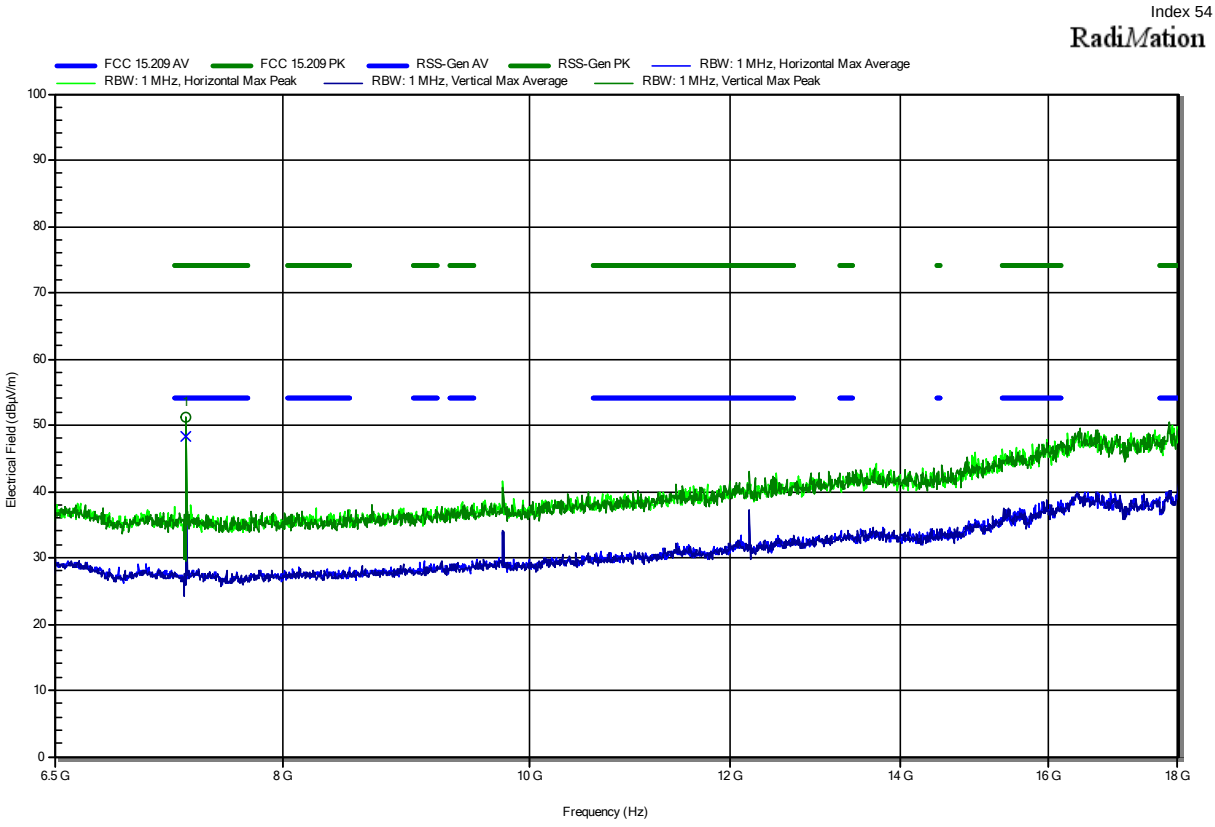
Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Qawasmeh
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Schwarzbeck HWRD 650
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.402GHz
Test Date:	2021-12-17
Note:	EUT vertical



Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Qawasmeh
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Schwarzbeck HWRD 650
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.44GHz
Test Date:	2021-12-17
Note:	EUT vertical

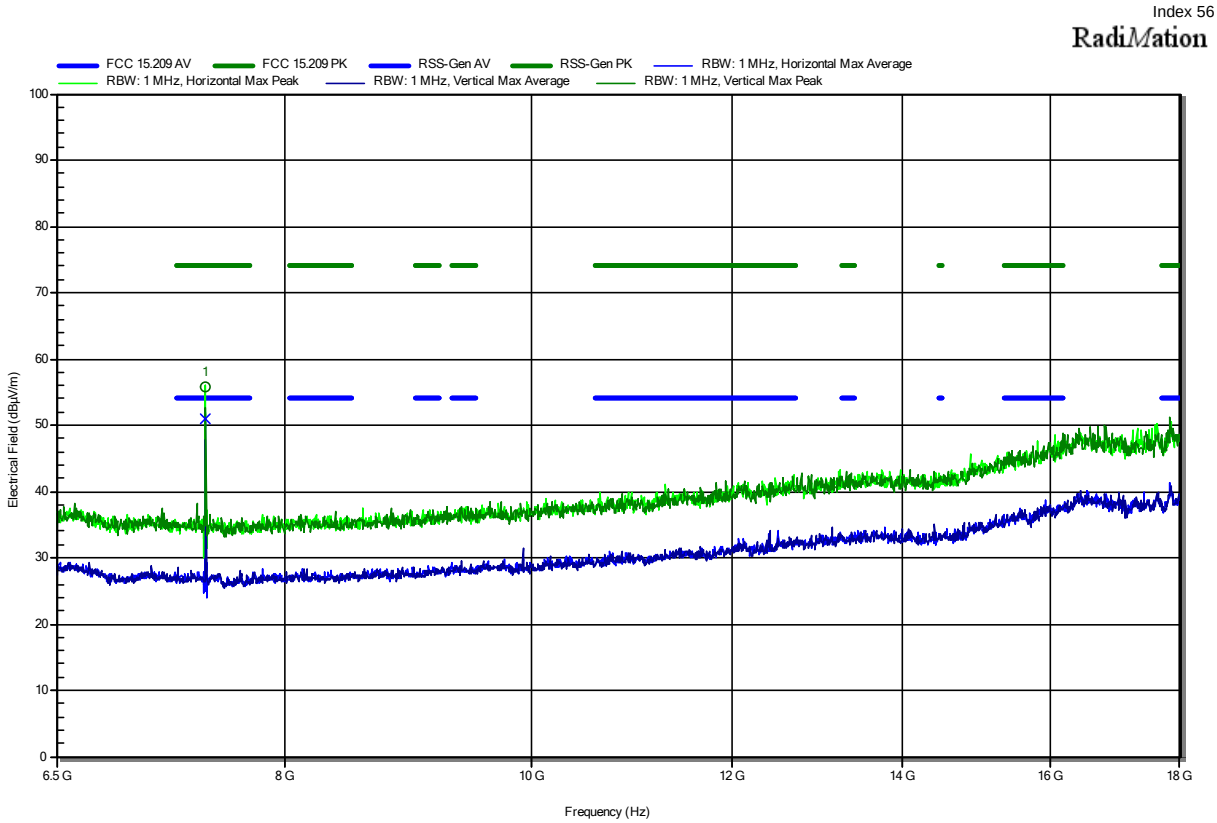


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
7.319 GHz	51.13 dBµV/m	74 dBµV/m	-22.87 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
7.319 GHz	48.21 dBµV/m	54 dBµV/m	-5.79 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Qawasmeh
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Schwarzbeck HWRD 650
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.48GHz
Test Date:	2021-12-17
Note:	EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
7.439 GHz	55.73 dBµV/m	74 dBµV/m	-18.27 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
7.439 GHz	51.04 dBµV/m	54 dBµV/m	-2.96 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Qawasmeh
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Amplifier Research AT4560
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.402GHz
Test Date:	2021-12-17
Note:	EUT vertical

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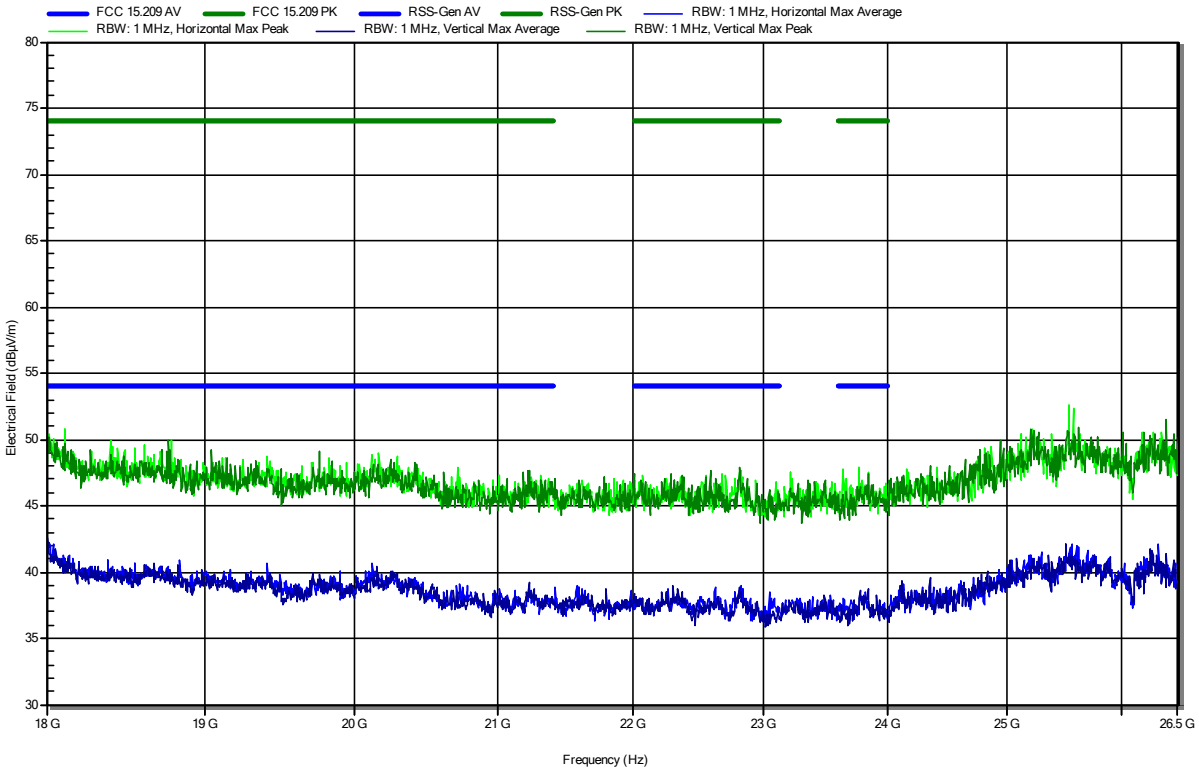
RadiMation



Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Qawasmeh
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Amplifier Research AT4560
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.44GHz
Test Date:	2021-12-17
Note:	EUT vertical

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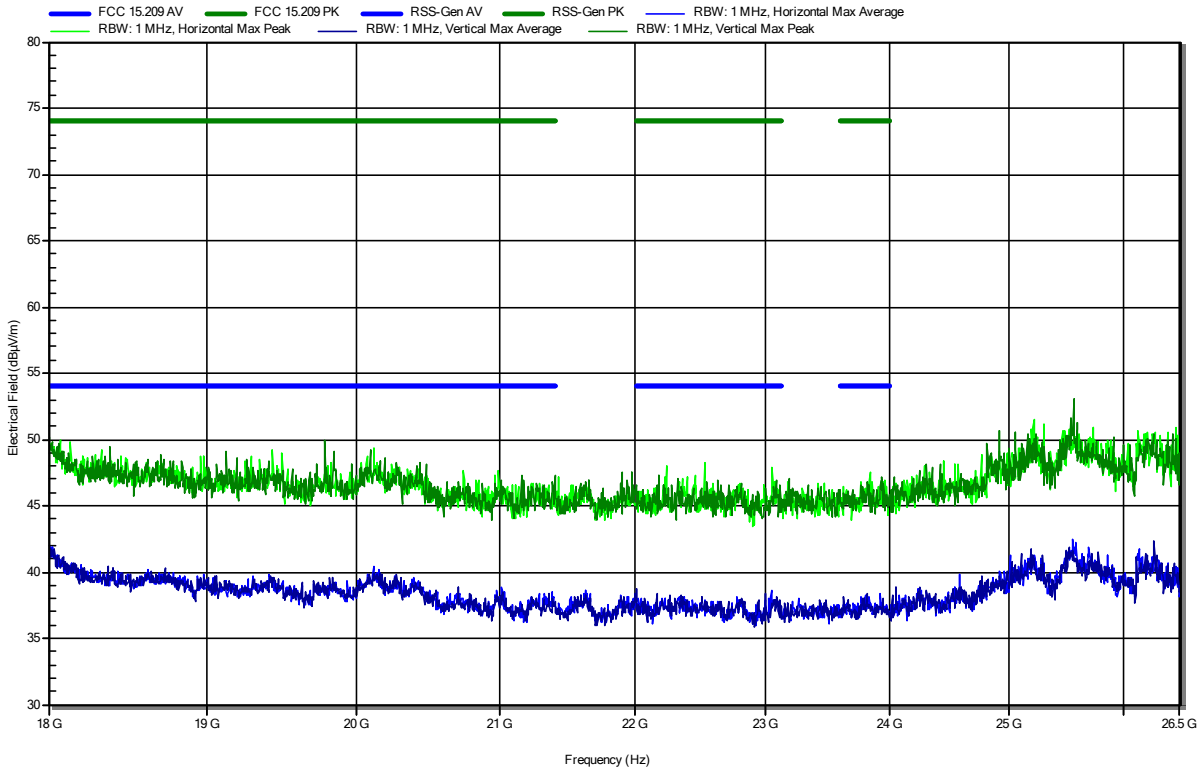
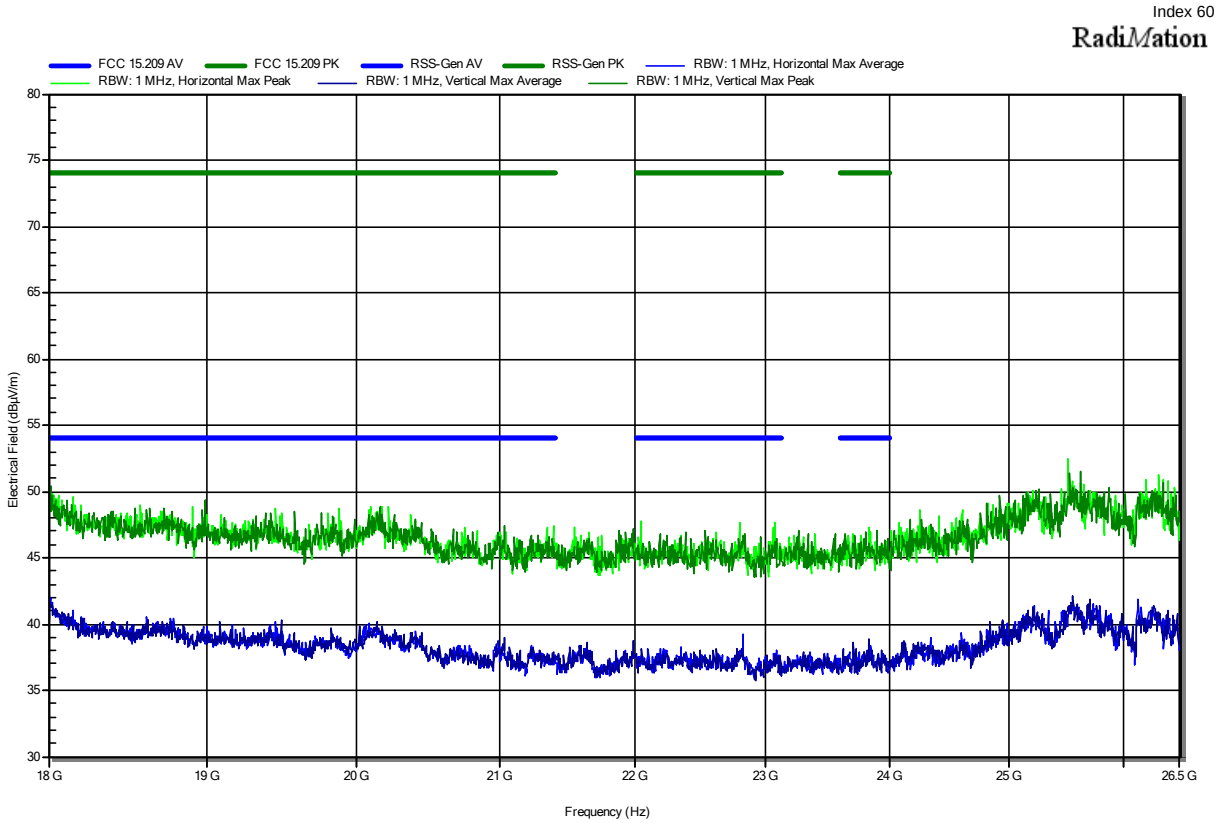
RadiMation



Radiated Spurious Emissions according to 47 CFR Part 15.247

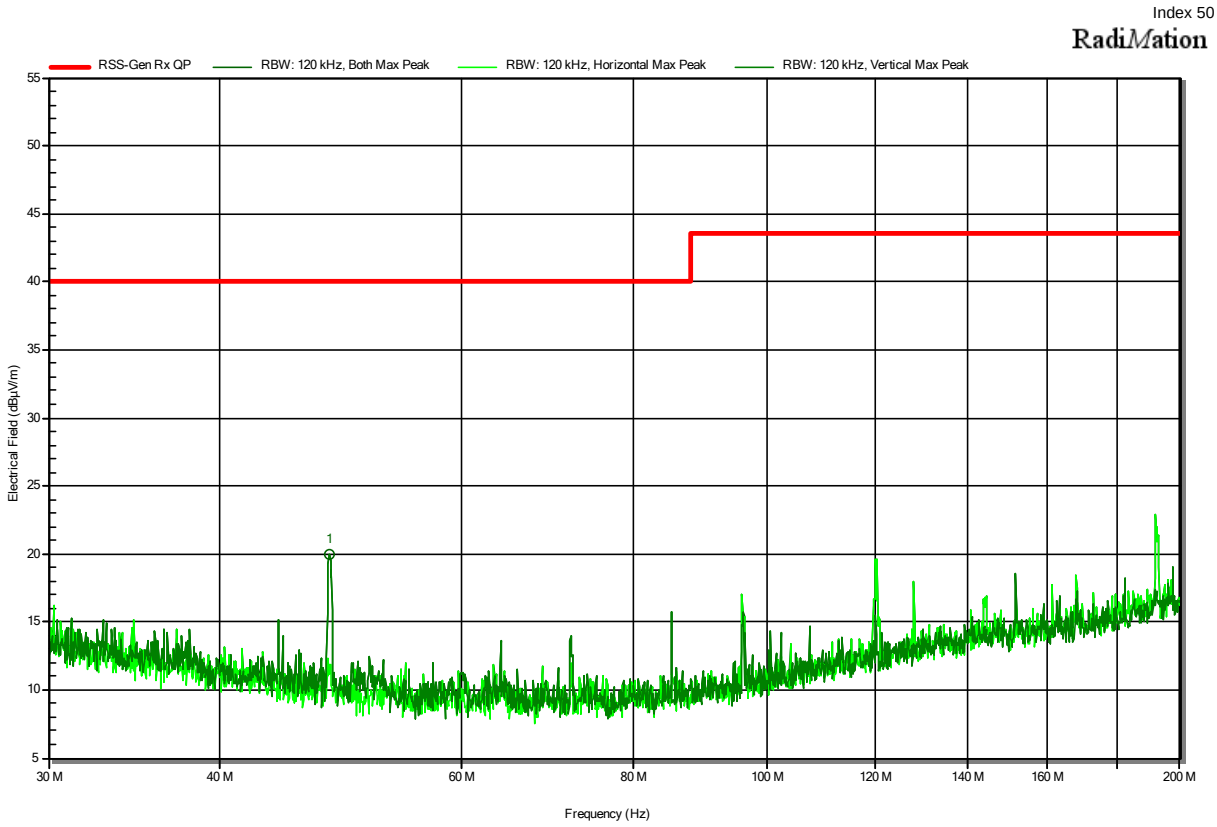
Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Qawasmeh
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Amplifier Research AT4560
Measurement distance:	3 m
Mode:	Tx; BT-LE 2.48GHz
Test Date:	2021-12-17
Note:	EUT vertical



ANNEX B Receiver spurious emissions

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-Gen Issue 5

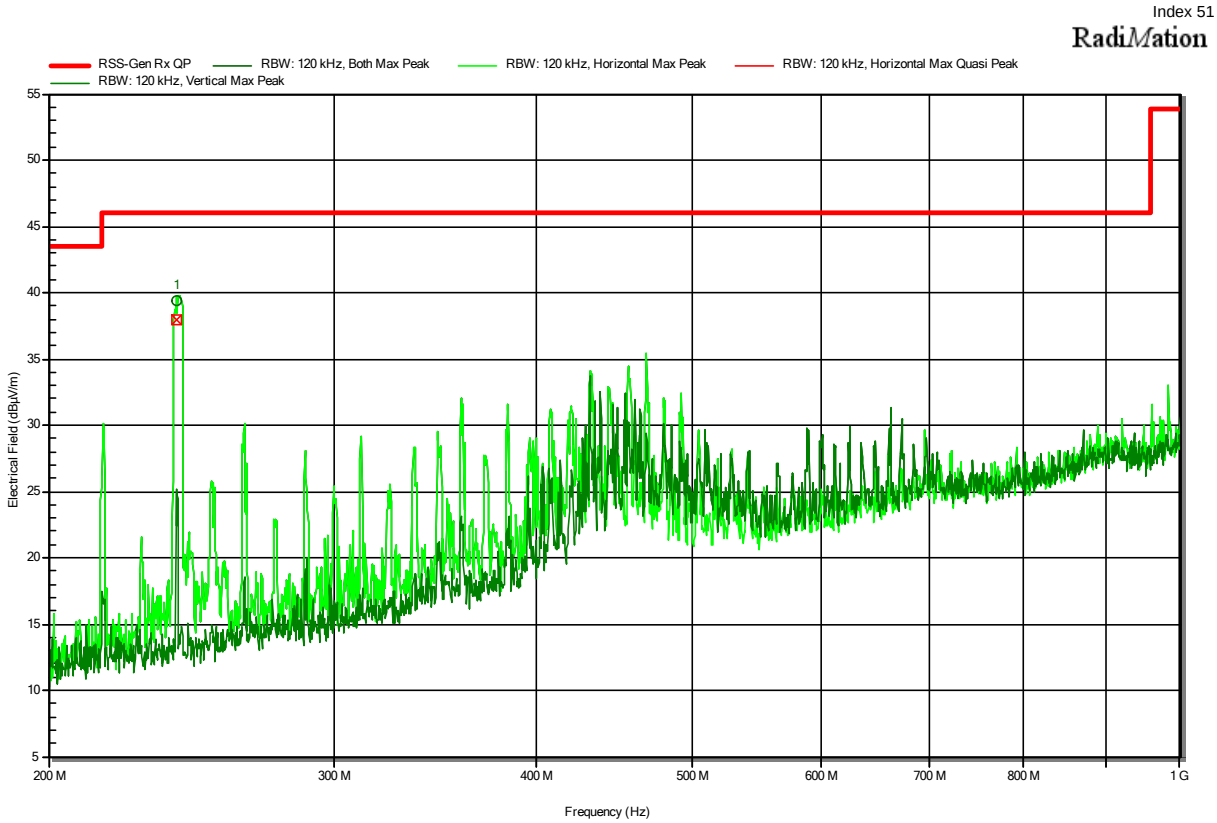
Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Degenhardt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Rohde & Schwarz HK 116
Measurement distance:	3 m
Mode:	Rx; BT-LE 2.44GHz Receive
Test Date:	2021-12-20
Note:	EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
48.054 MHz	20 dBµV/m	40 dBµV/m	-19.99 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-Gen Issue 5

Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Degenhardt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Rohde & Schwarz HL 223
Measurement distance:	3 m
Mode:	Rx; BT-LE 2.44GHz Receive
Test Date:	2021-12-20
Note:	EUT vertical

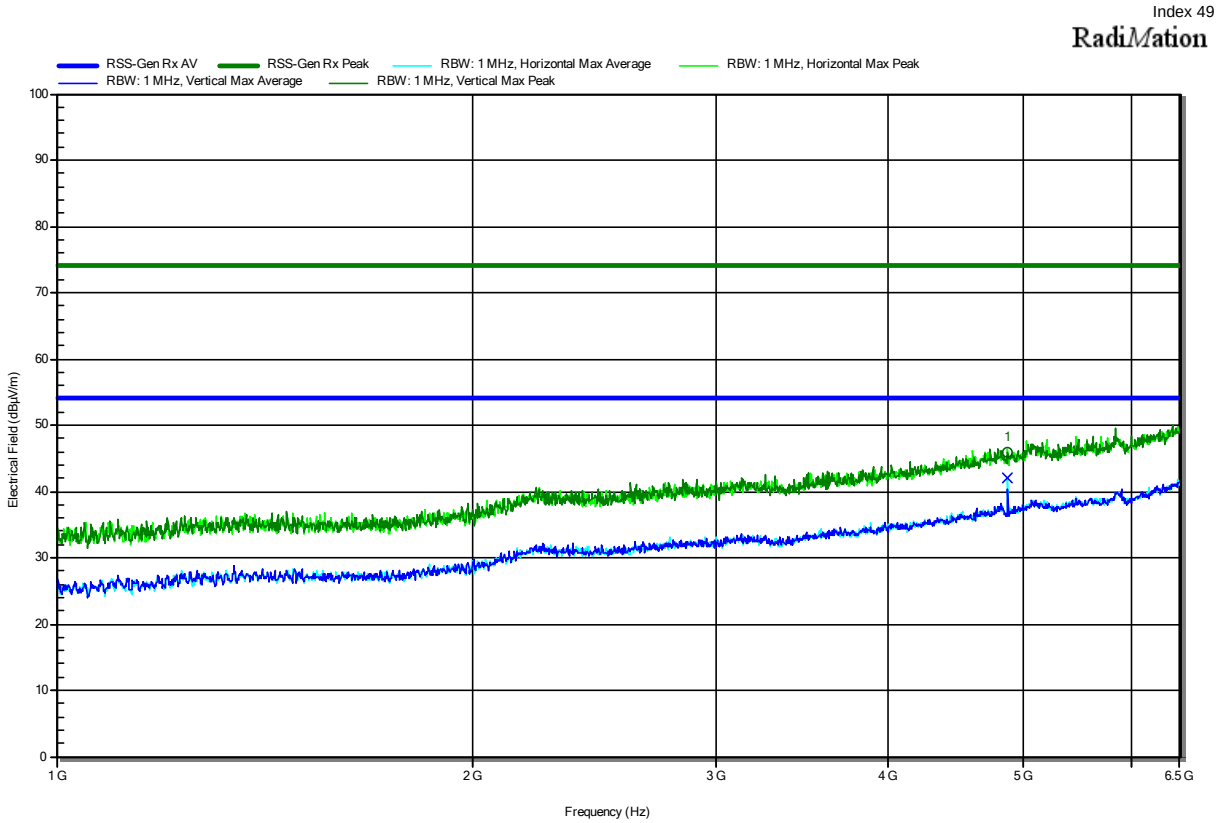


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
240.16 MHz	39.4 dBµV/m	46 dBµV/m	-6.63 dB	Pass	Horizontal

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Polarization
240.16 MHz	38 dBµV/m	46 dBµV/m	-8.02 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-Gen Issue 5

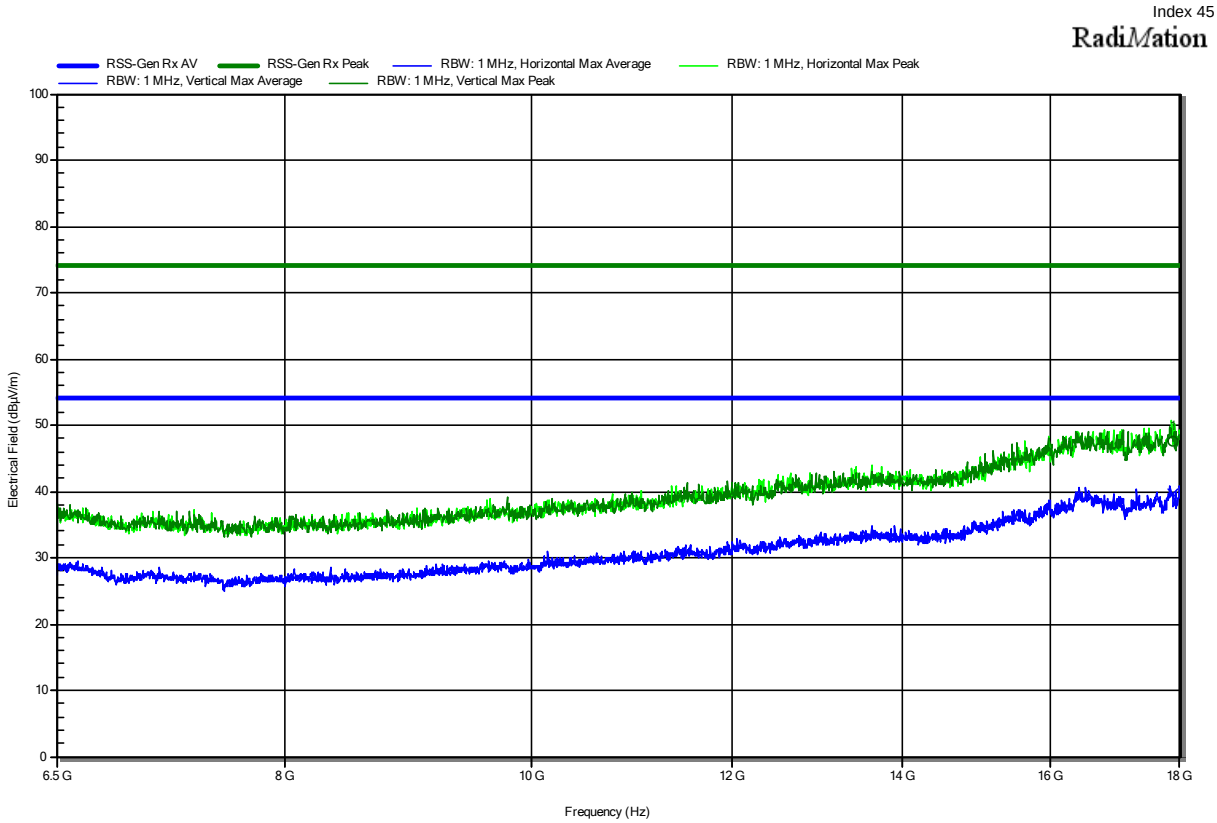
Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Qawasmeh
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Schwarzbeck BBHA 9120D
Measurement distance:	3 m
Mode:	Rx; BT-LE 2.44GHz Receive
Test Date:	2021-12-17
Note:	EUT vertical



Frequency 4.878 GHz	Peak 45.85 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -28.15 dB	Peak Status Pass	Polarization Horizontal
Frequency 4.878 GHz	Average 42.04 dBµV/m	Average Limit 53.98 dBµV/m	Average Difference -11.94 dB	Average Status Pass	Polarization Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-Gen Issue 5

Project Number:	G0M-2106-9856
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	Battery pack 4850 with Bluetooth-Modul
Model:	AP 200 S
Test Sample ID:	37459
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Degenhardt
Measurement software:	RadiMation, version 2020.1.8
Test Conditions:	Tnom: 23 °Celsius, Vnom: Charger AL300 (sample-ID:35883)
Antenna:	Schwarzbeck HWRD 650
Measurement distance:	3 m
Mode:	Rx; BT-LE 2.44GHz Receive
Test Date:	2021-12-17
Note:	EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
17.89 GHz	47.61 dBµV/m	74 dBµV/m	-26.39 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
17.89 GHz	39.56 dBµV/m	53.98 dBµV/m	-14.42 dB	Pass	Vertical

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