

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-2106-9857-TFC247BL-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	Andreas-Stihl-Straße 4 71336 Waiblingen 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	battery pack 4871 AR-C
Model(s)	AR 3000 L
Additional Model(s)	None
Brand Name(s)	Andreas Stihl AG & Co. KG
Hardware Version(s)	HW 03.10
Software Version(s)	SW 00.17
FCC ID	2ALP8AR1
IC	23431-AR1
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	2021-07-15	
Report:		
Compiled by	Charline Graf	
Tested by (+ signature) (Responsible for Test)	Charline Graf	
Approved by (+ signature) (Deputy Head of Lab)	Toralf Jahn	
Date of Issue	2021-11-18	
Total number of pages	93	
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:		

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2021-10-26	Initial Release	
02	2021-11-18	Correction of spurious emission result	C.Graf

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

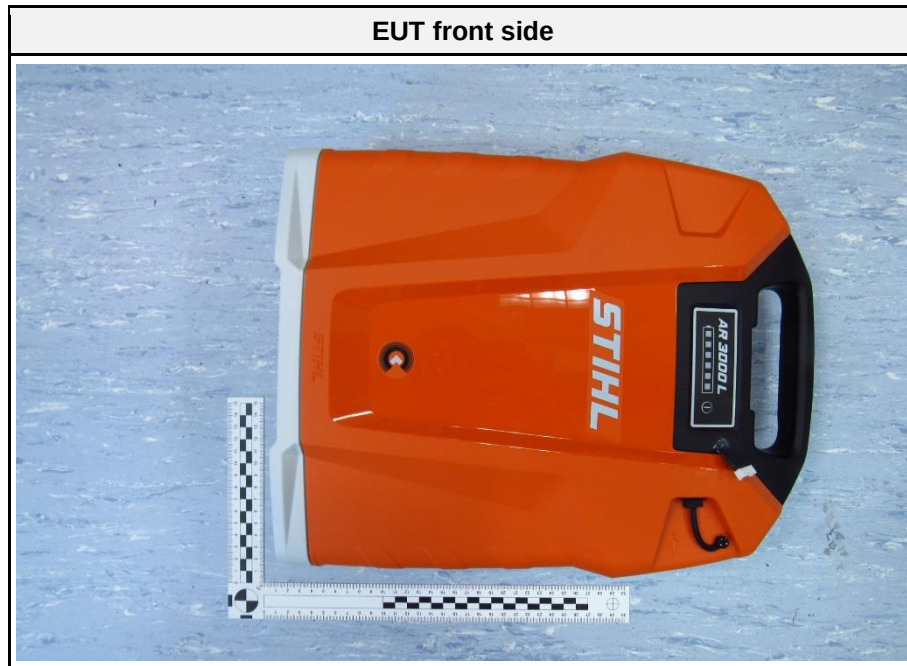
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1 Equipment (Test Item) Under Test

Description	battery pack 4871 AR-C	
Model	AR 3000 L	
Additional Model(s)	None	
Brand Name(s)	Andreas Stihl AG & Co. KG	
Serial Number(s)	190360578	
Hardware Version(s)	HW 03.10	
Software Version(s)	SW 00.17	
PMN	AR 3000 L / AR 2000 L	
HVIN	AR 3000 L / AR 2000 L	
FVIN	-	
HMN	-	
FCC ID	2ALP8AR1	
IC	23431-AR1	
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	0 dBi
Supply Voltage	V _{NOM}	36 VDC
Operating Temperature	T _{NOM}	25 °C
AC/DC-Adaptor	Model	4850
	Vendor	STIHL
	Input	220-240 V / 50 Hz
	Output	27 - 42 V
Manufacturer	ANDREAS STIHL AG & Co. KG Andreas-Stihl-Straße 4 71336 Waiblingen GERMANY	

1.1 Photos – Equipment External



Test Report No.: G0M-2106-9857-TFC247BL-V02

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

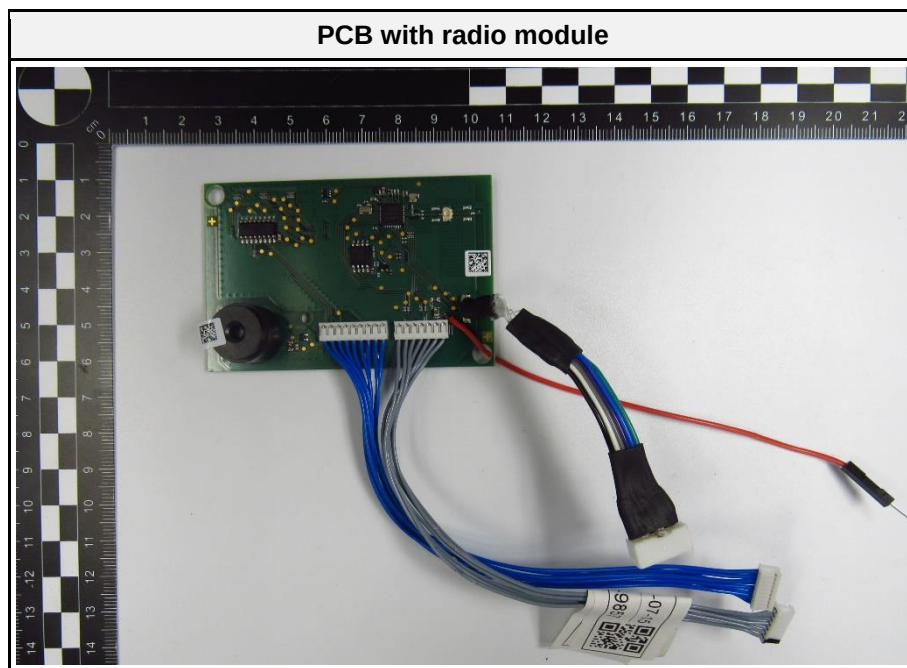
EUT top side



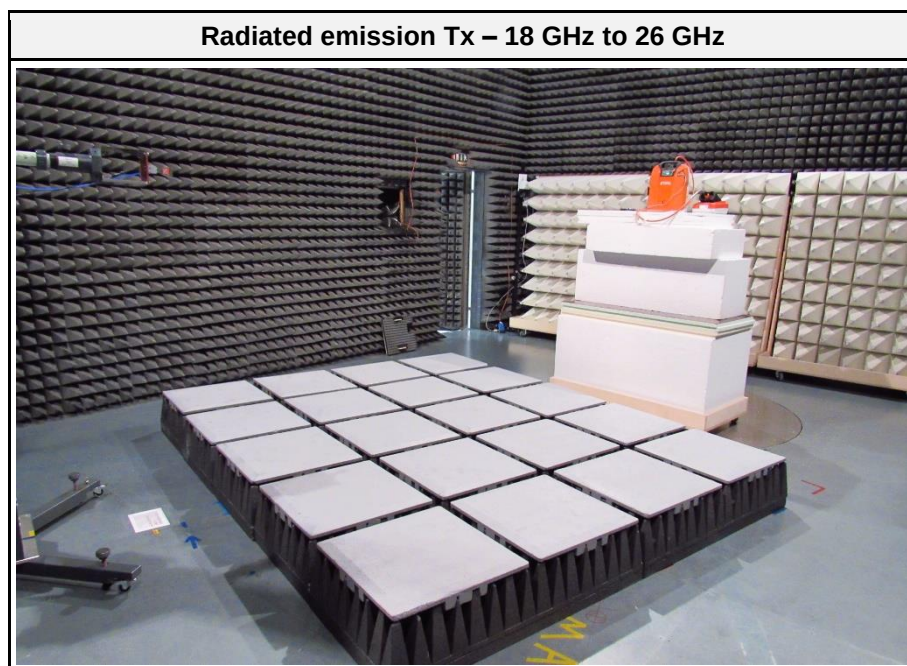
EUT bottom side



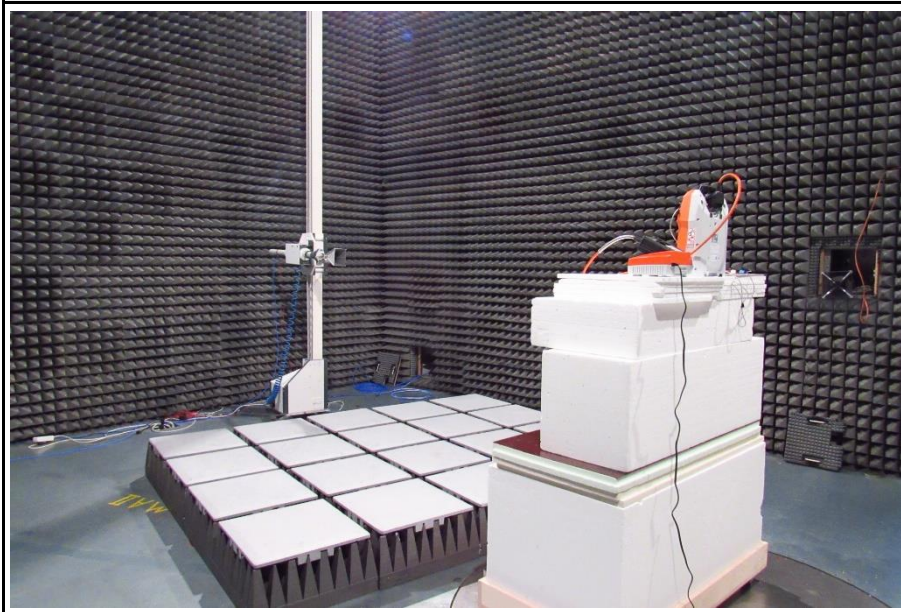
1.2 Photos – Equipment Internal



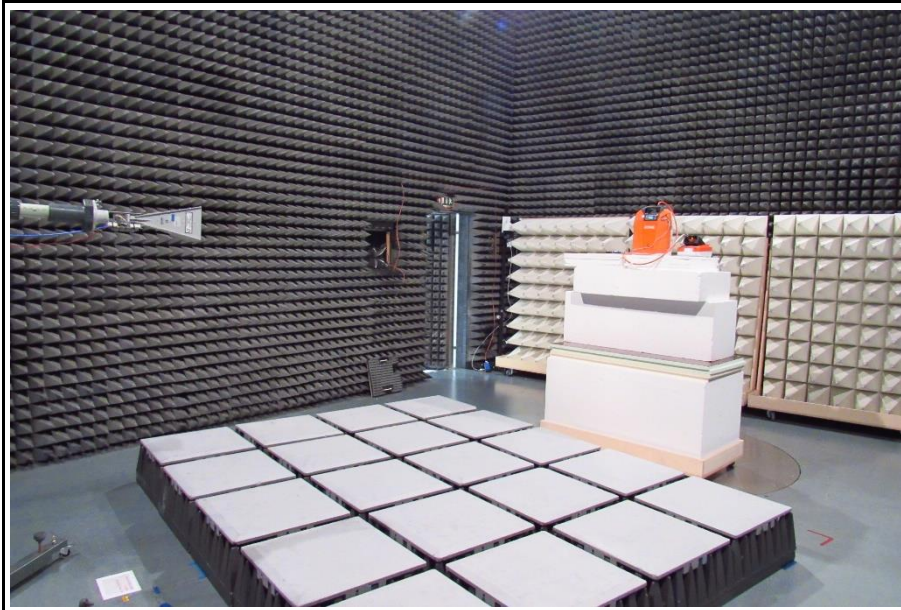
1.3 Photos – Test Setup



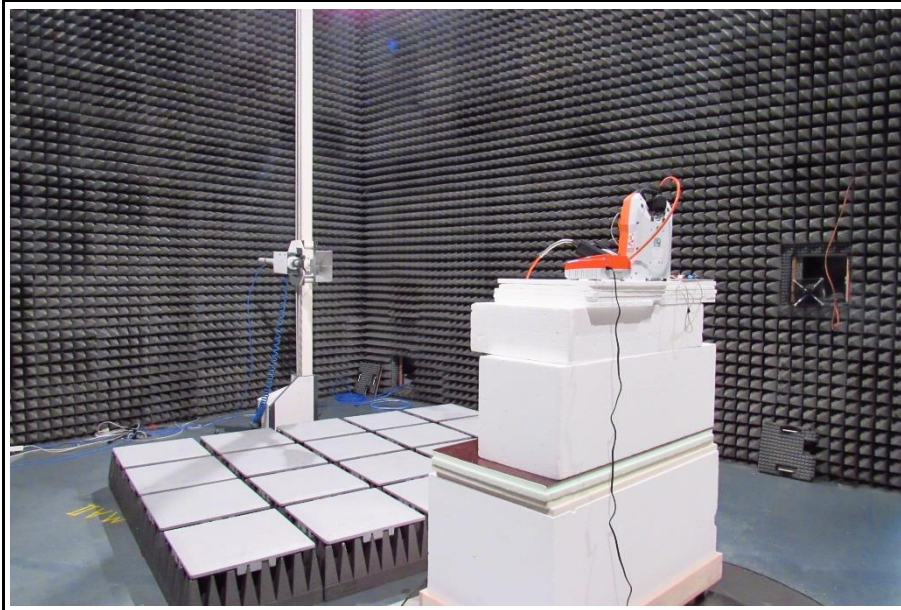
Radiated emission Tx – 6.5 GHz to 18 GHz



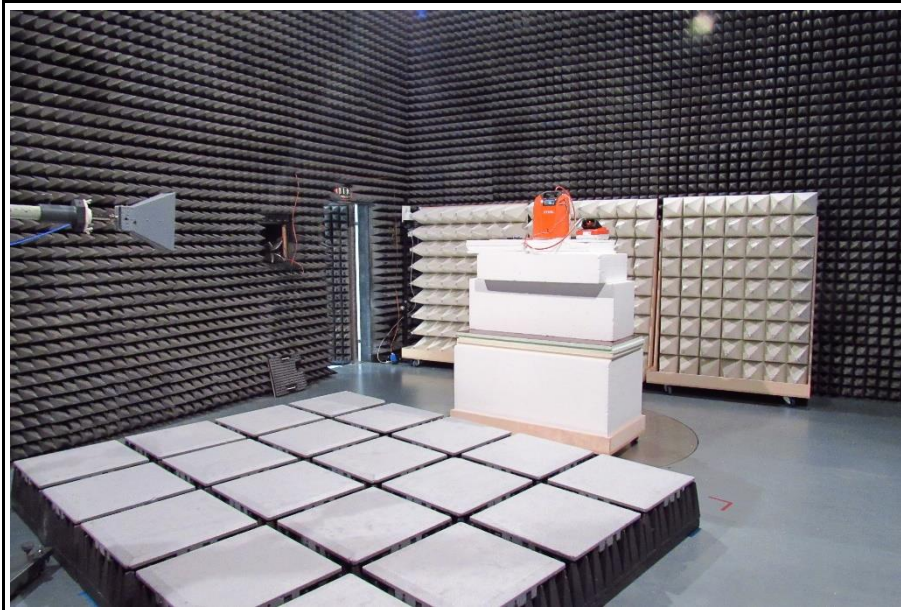
Radiated emission Tx – 6.5 GHz to 18 GHz



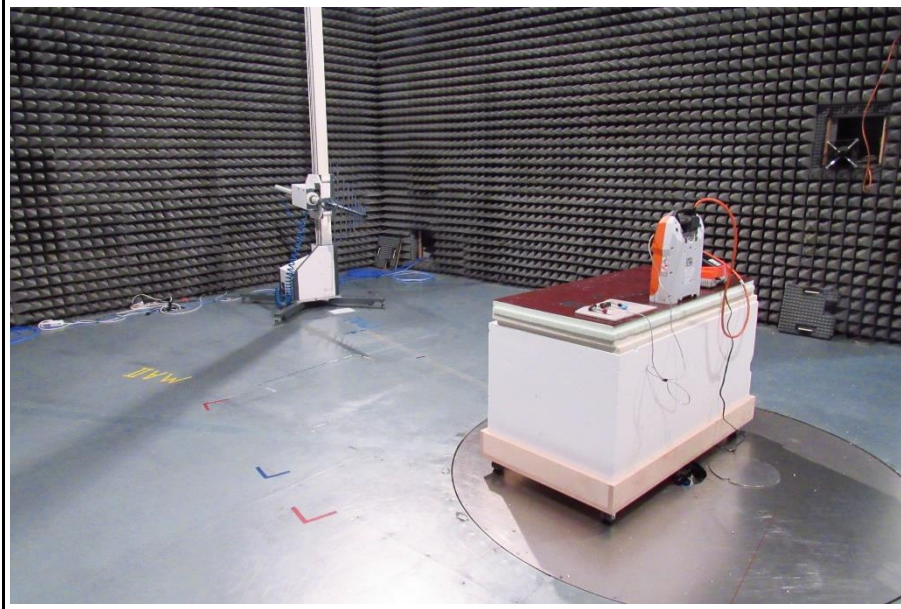
Radiated emission Tx – 1 GHz to 6.5 GHz



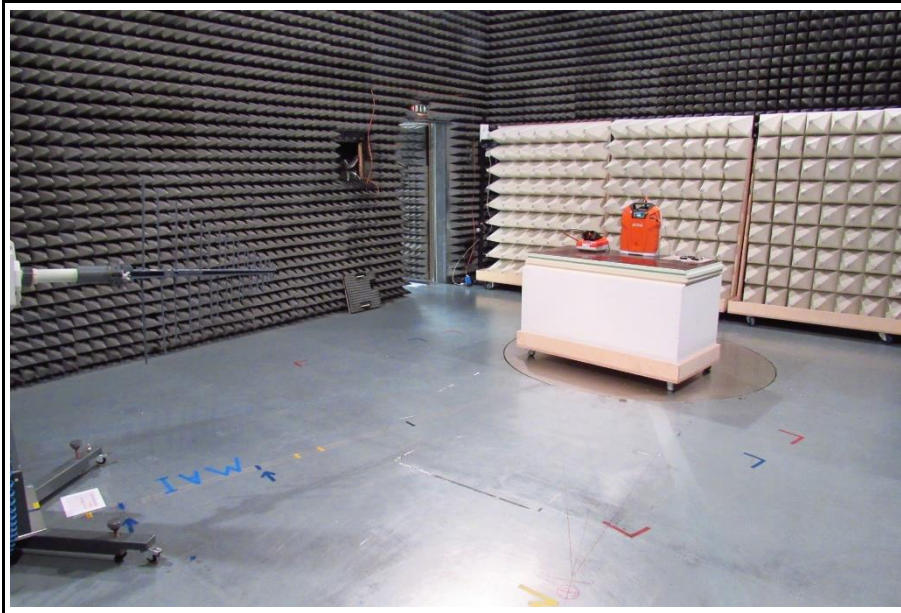
Radiated emission Tx – 1 GHz to 6.5 GHz



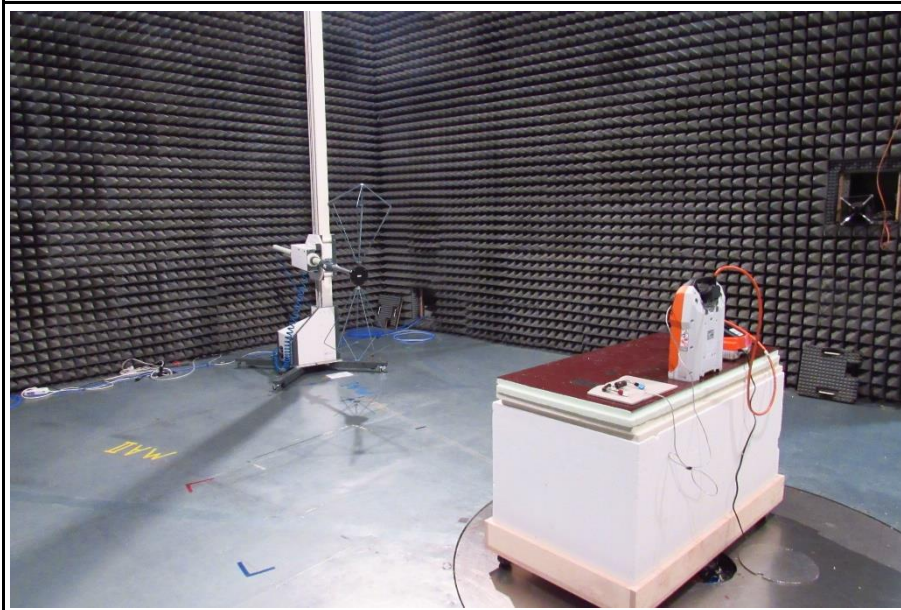
Radiated emission Tx - 200 MHz to 1 GHz



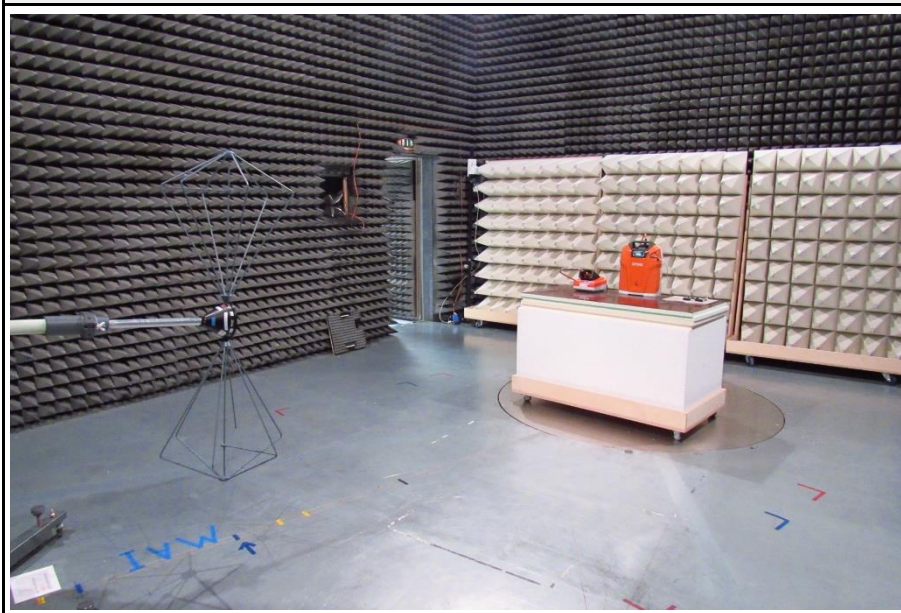
Radiated emission Tx - 200 MHz to 1 GHz



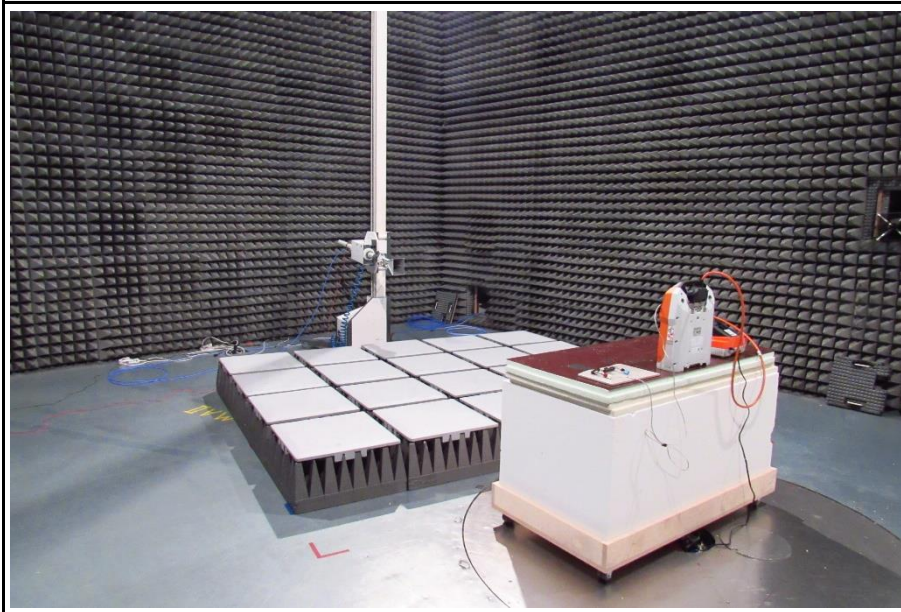
Radiated emission Tx - 30 MHz to 200 MHz



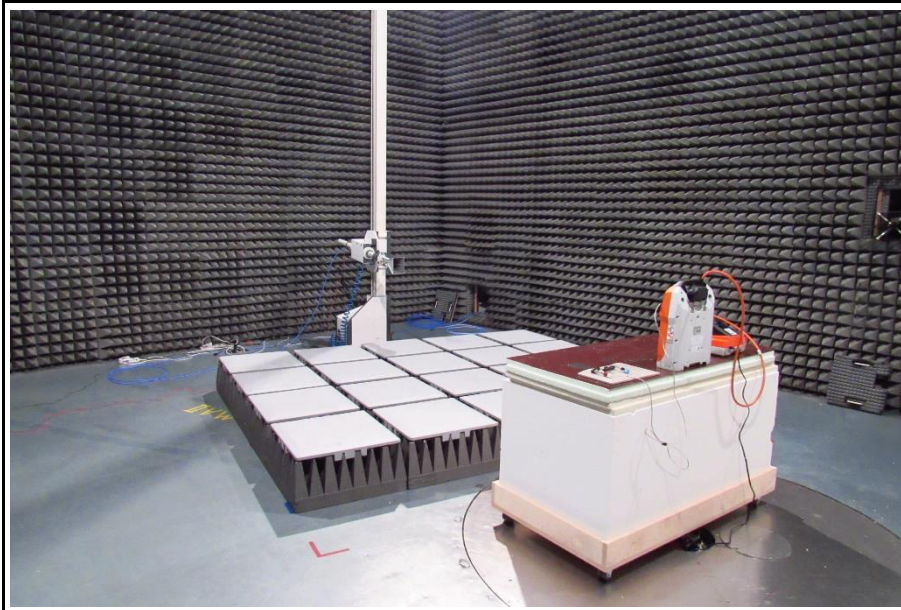
Radiated emission Tx - 30 MHz to 200 MHz



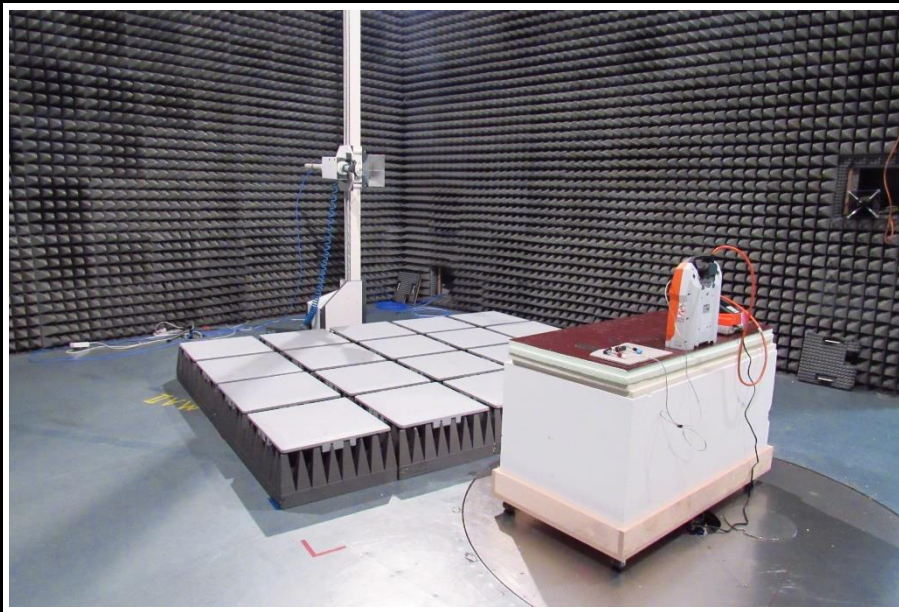
Radiated emission Rx – 6.5 GHz to 18 GHz



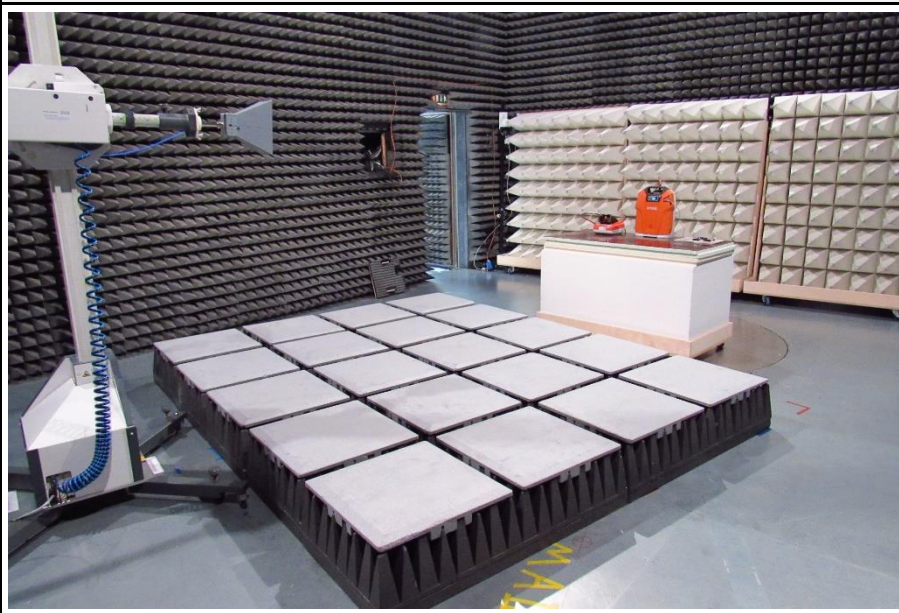
Radiated emission Rx – 6.5 GHz to 18 GHz



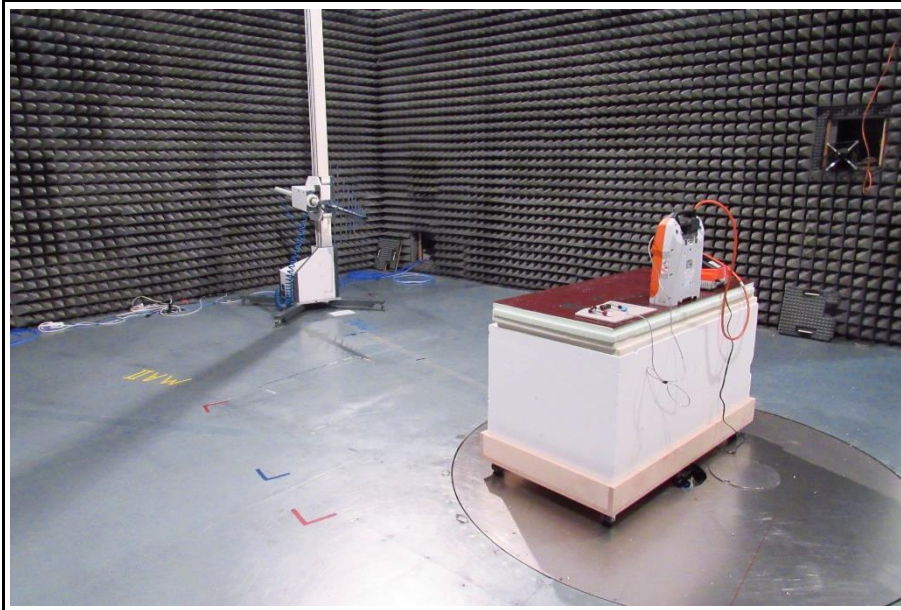
Radiated emission Rx – 1 GHz to 6.5 GHz



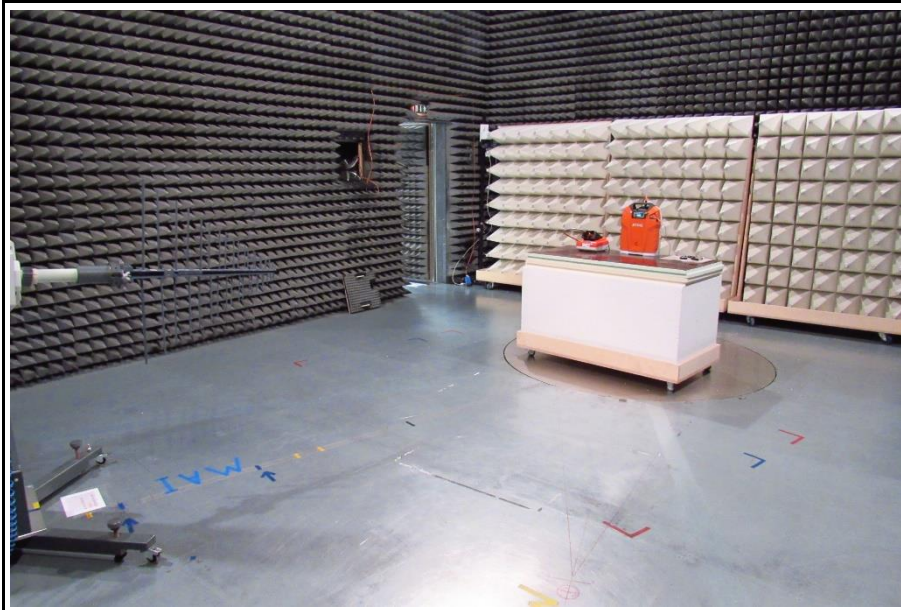
Radiated emission Rx – 1 GHz to 6.5 GHz



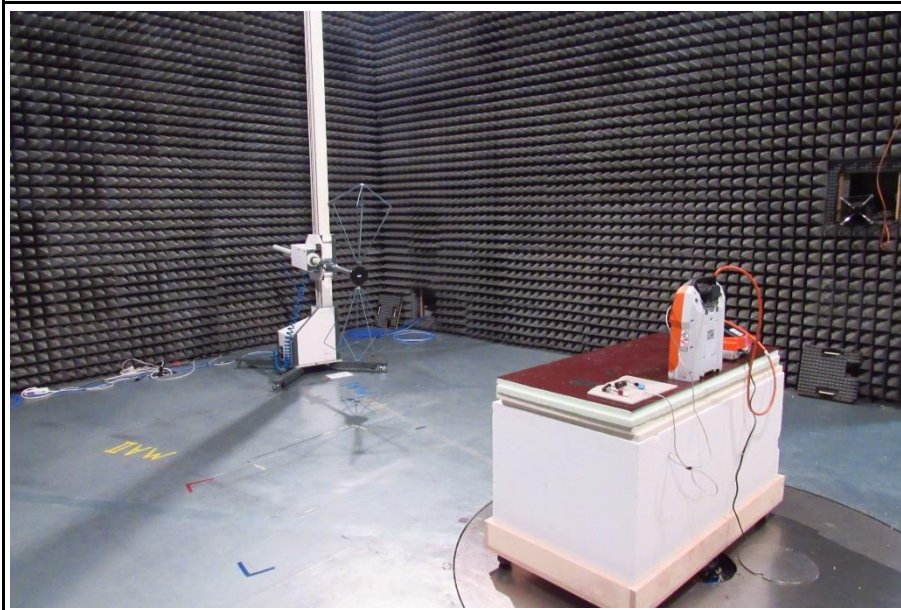
Radiated emission Rx - 200 MHz to 1 GHz



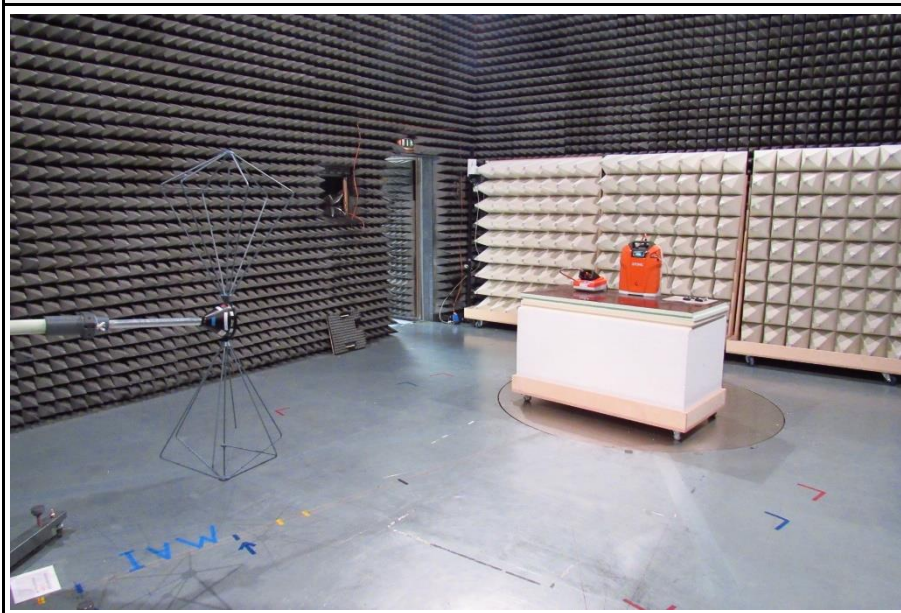
Radiated emission Rx - 200 MHz to 1 GHz



Radiated emission Rx - 30 MHz to 200 MHz



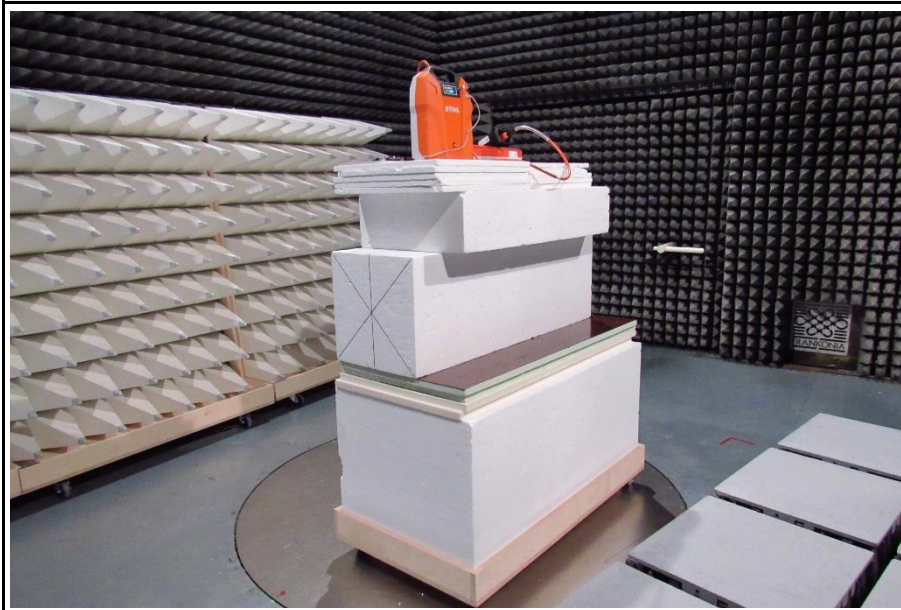
Radiated emission Rx - 30 MHz to 200 MHz



Test Set-up > 1 GHz Focus



Test Set-up > 1 GHz



Test Set-up < 1 GHz Focus



Test Set-up conducted emission



1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
None.				
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment:				

1.5 Test Modes

Mode	Description
1 Mbps	Mode = Transmit Modulation = GFSK Spreading = None Duty cycle = 63%
Receive	Mode = Receive
Comment:	

1.6 Test Frequencies

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

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 dB μ V. 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:

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

Net:

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

Limit:

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

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

Margin:

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

Example only:

Reading + AF	= Net Reading	:	Net reading - FCC limit	= Margin
+21.5 dB μ V + 26 dB/m	= 47.5 dB μ V/m	:	47.5 dB μ V/m - 57.0 dB μ V/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 (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	PASS	
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 (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

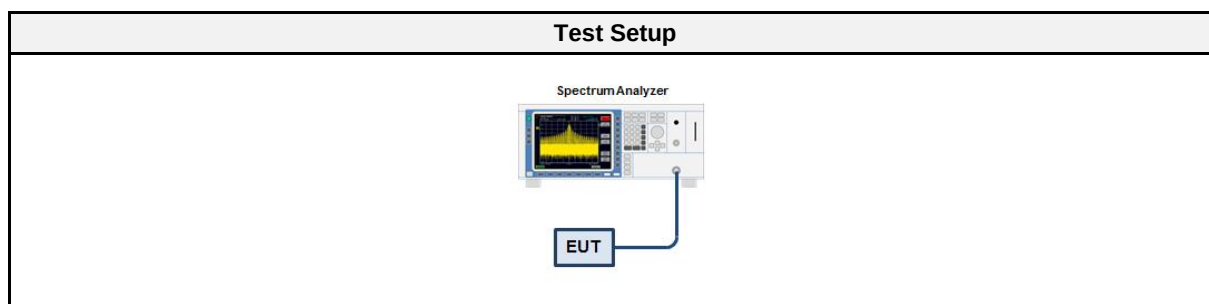
3.1.1 Information

Test Information	
Reference	ISED RSS-Gen, Issue 5 (section 6.7)
Measurement Method	ANSI C63.10 6.9.3
Measurement Uncertainty	$\pm 1.26 \%$
Test Sample ID	35705
Operator	Charline Graf
Date	2021-09-20

3.1.2 Limits

Limits
None (Informational only)

3.1.3 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)	– (diverse)	EF00779 CAAAT	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]
GFSK	2402	1.045
GFSK	2440	1.045

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GFSK	2480	1.045
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Occupied Bandwidth

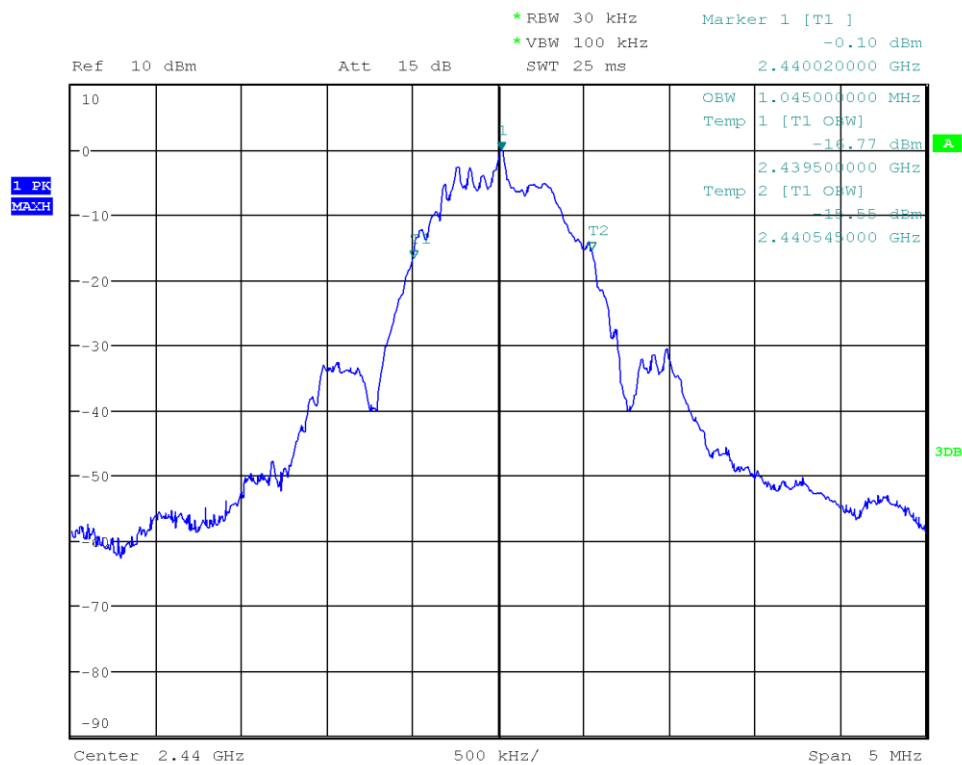
Project Number:	G0M-2106-9857
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	battery pack 4871 AR-C
Model:	AR 3000 L
Test Sample ID:	35705
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 6.9.3
Operational Mode:	GFSK, Channel: 0, 2402 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Charline Graf
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-09-20
Occupied Bandwidth [MHz]:	1.045



Date: 20.SEP.2021 19:28:04

Occupied Bandwidth

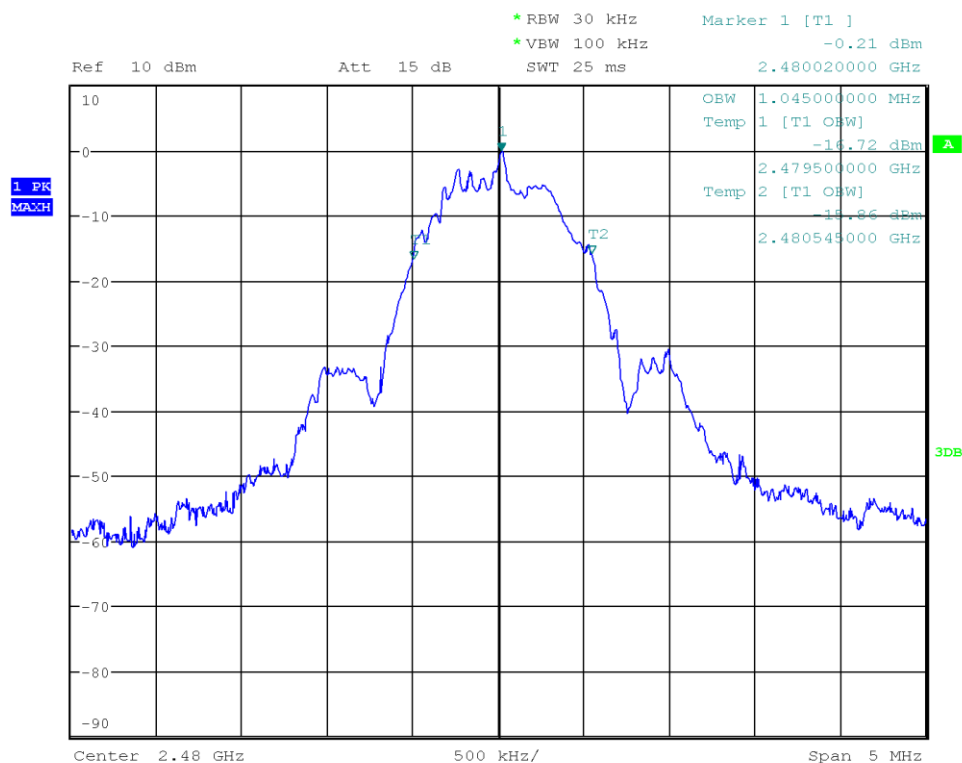
Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35705
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Charline Graf
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-20
 Occupied Bandwidth [MHz]: 1.045



Date: 20.SEP.2021 19:29:05

Occupied Bandwidth

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35705
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Charline Graf
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-20
 Occupied Bandwidth [MHz]: 1.045



Date: 20.SEP.2021 19:31:09

3.2 Test Conditions and Results - 6 dB bandwidth

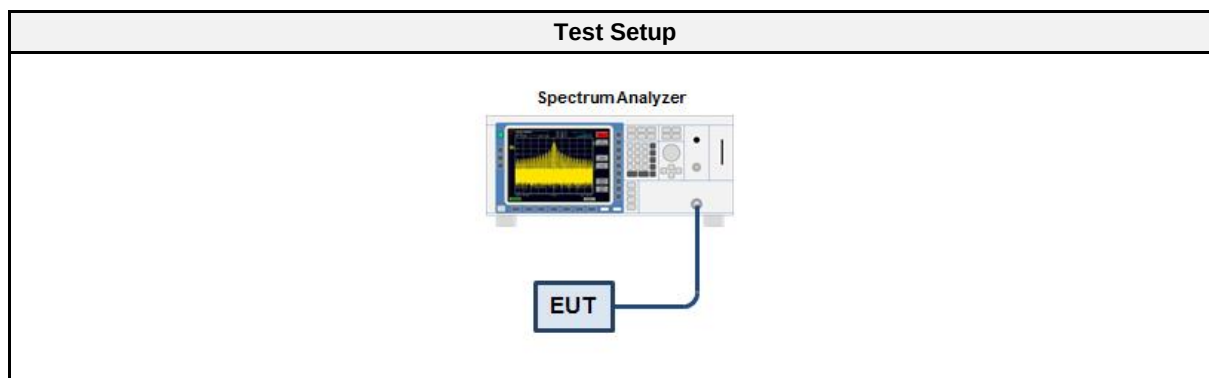
3.2.1 Information

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	Charline Graf
Date	2021-09-20

3.2.2 Limits

Limits
≥ 500kHz

3.2.3 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)	– (diverse)	– (diverse)	EF00779 CAAAT	2020-12	2021-12

3.2.5 Procedure

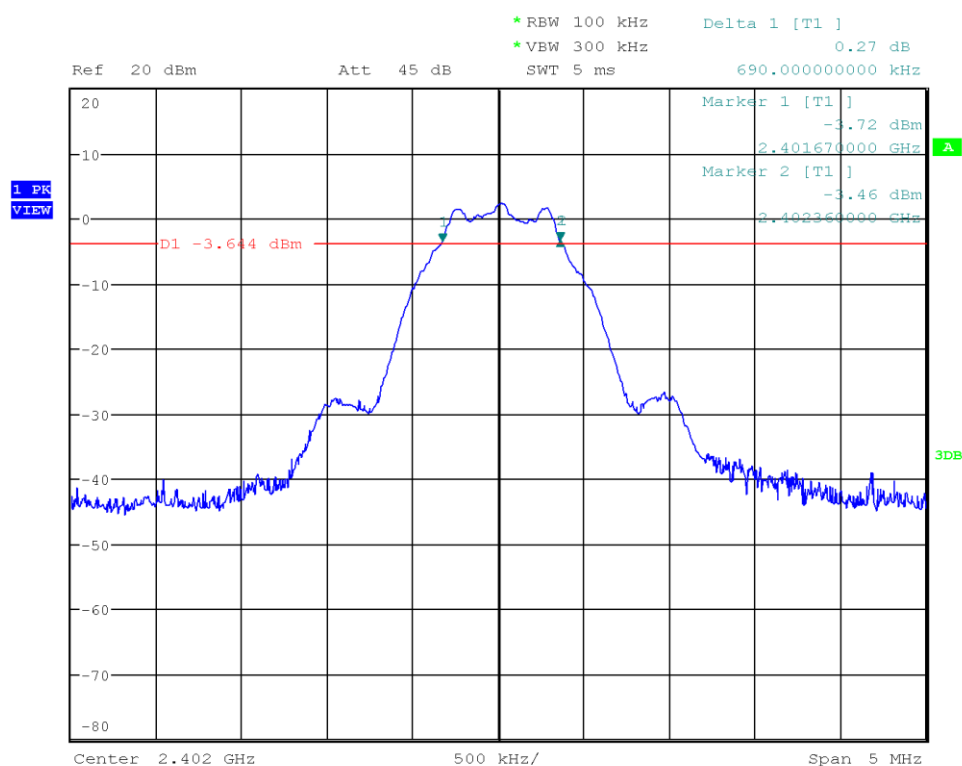
Test Procedure
1. EUT set to test mode 2. Span set to at least twice the emission spectrum 3. Detector set to peak and max hold and RBW is set to 100 kHz 4. Envelope peak value of emission spectrum is selected 5. Marker on envelope of spectrum is set to level of -6 dB to the left of the peak 6. Marker 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
GFSK	2402	690	500	PASS
GFSK	2440	700	500	PASS
GFSK	2480	715	500	PASS

DTS (6 dB) Bandwidth

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35705
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.8.1 Option 1
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Charline Graf
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-20
 Lower Frequency [MHz]: 2401.670
 Upper Frequency [MHz]: 2402.360
 6 dB Bandwidth [kHz]: 690



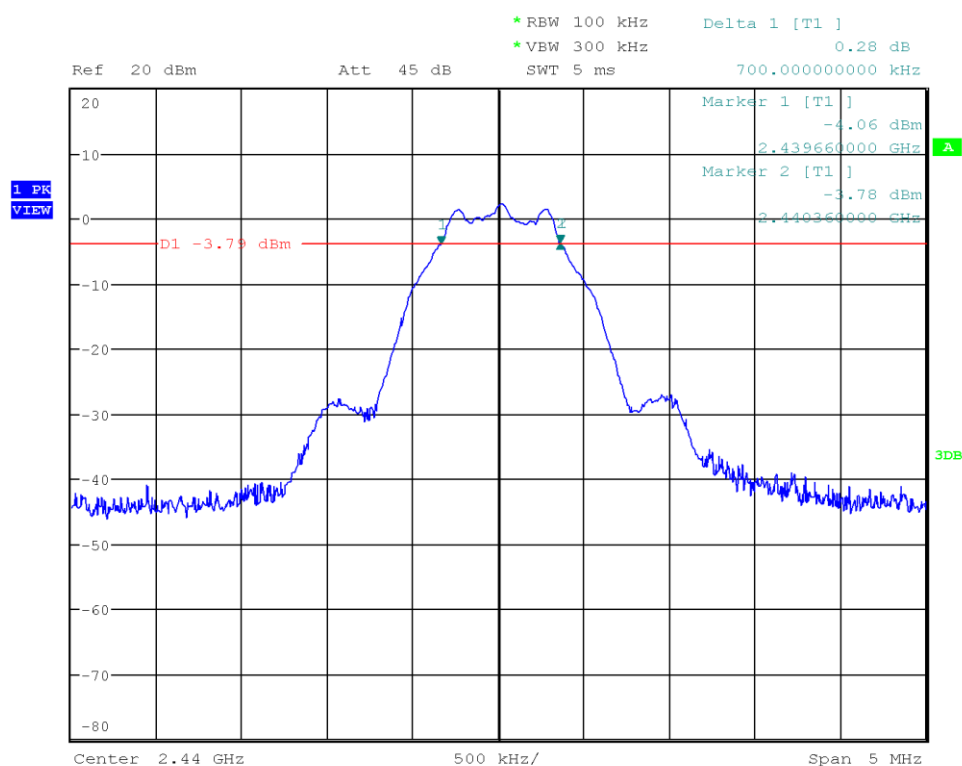
Date: 20.SEP.2021 19:34:17

Test Report No.: G0M-2106-9857-TFC247BL-V02

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

DTS (6 dB) Bandwidth

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35705
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.8.1 Option 1
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Charline Graf
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-20
 Lower Frequency [MHz]: 2439.660
 Upper Frequency [MHz]: 2440.360
 6 dB Bandwidth [kHz]: 700



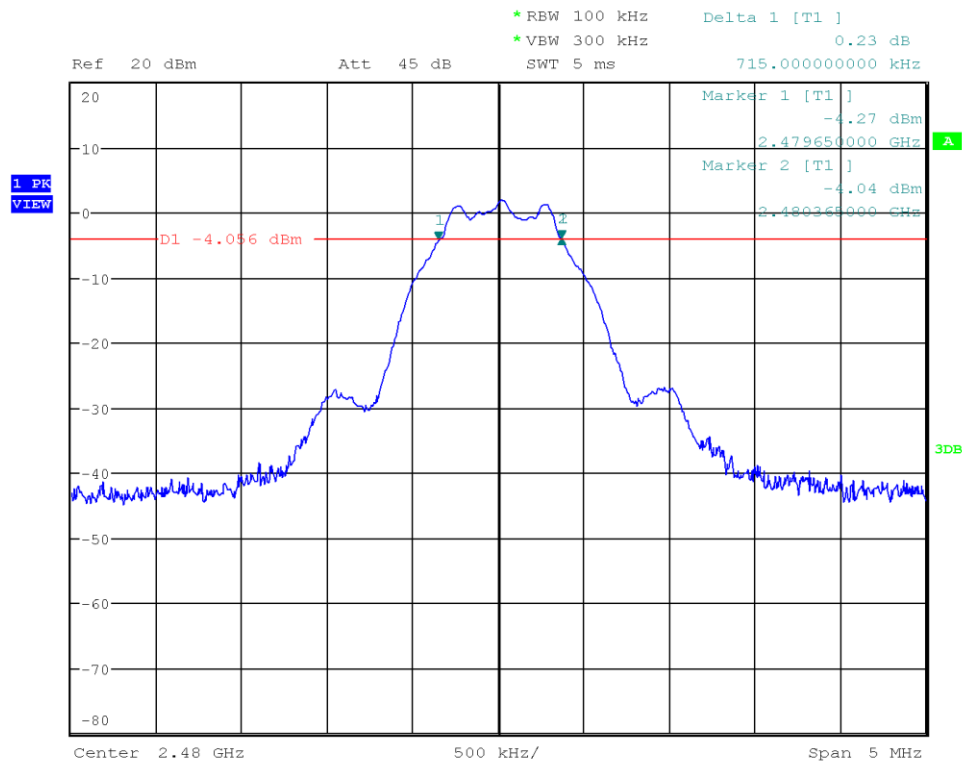
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Test Report No.: G0M-2106-9857-TFC247BL-V02

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

DTS (6 dB) Bandwidth

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35705
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.8.1 Option 1
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Charline Graf
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-20
 Lower Frequency [MHz]: 2479.650
 Upper Frequency [MHz]: 2480.365
 6 dB Bandwidth [kHz]: 715



Date: 20.SEP.2021 19:36:21

Test Report No.: G0M-2106-9857-TFC247BL-V02

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

3.3 Test Conditions and Results - Maximum peak conducted output power

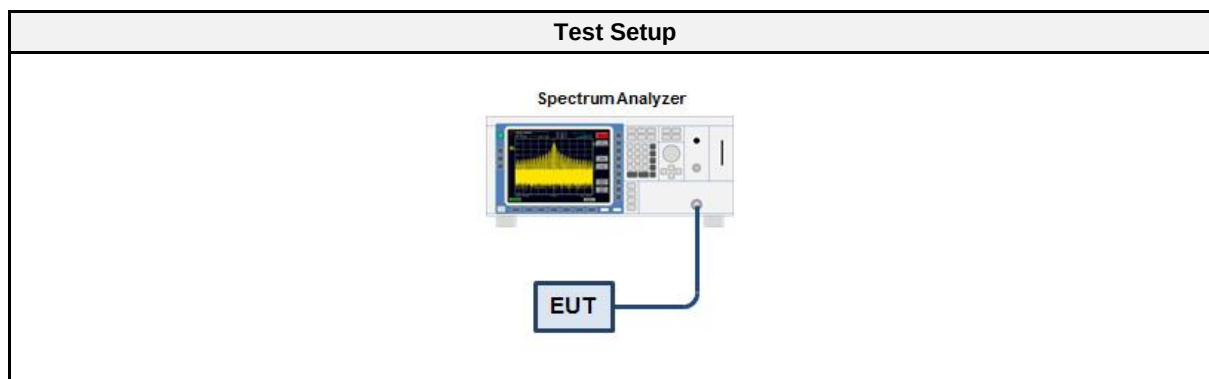
3.3.1 Information

Test Information	
Reference	FCC § 15.247(b); ISSED RSS-247, Issue 2 (section 5.4)
Measurement Method	ANSI C63.10 11.9.1
Measurement Uncertainty	± 2.86 dB
Operator	Charline Graf
Date	2021-09-20

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



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)	– (diverse)	EF00779 CAAAT	2020-12	2021-12

3.3.5 Procedure

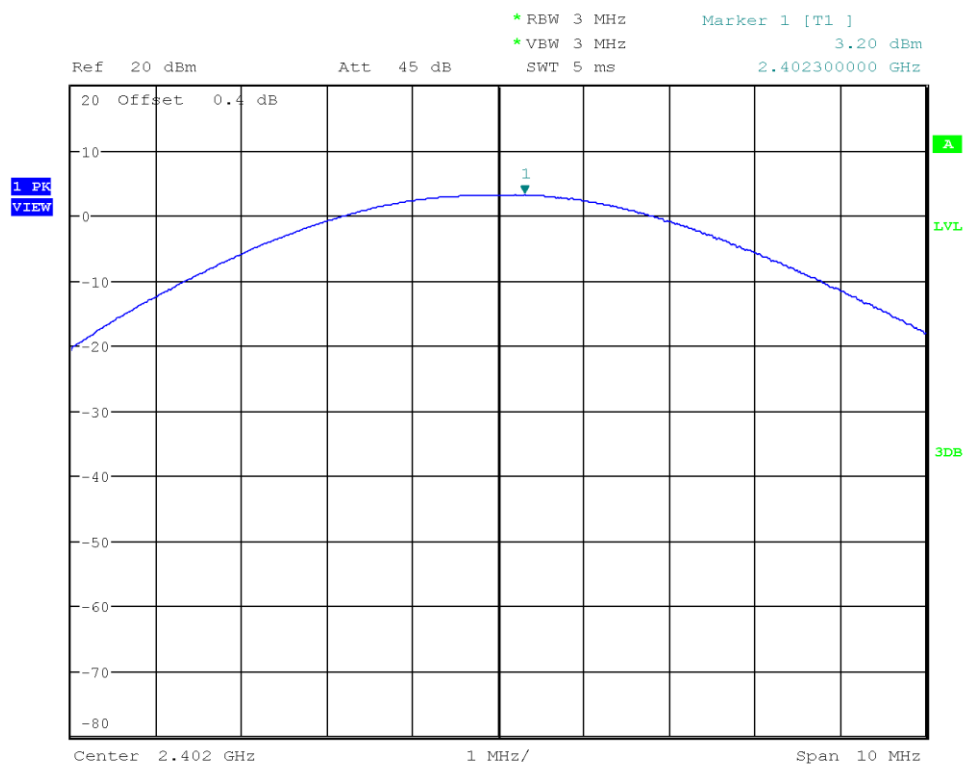
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Analyzer resolution bandwidth is set ≥ DTS bandwidth 3. Detector set to peak and max hold 4. Sweep time is set to auto 5. After the trace has stabilized a marker is set to peak of envelope

3.3.6 Results

Test Results				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2402	3.196	0.0021	1.0	PASS
2440	3.062	0.0020	1.0	PASS
2480	2.773	0.0019	1.0	PASS

Peak Conducted Output Power

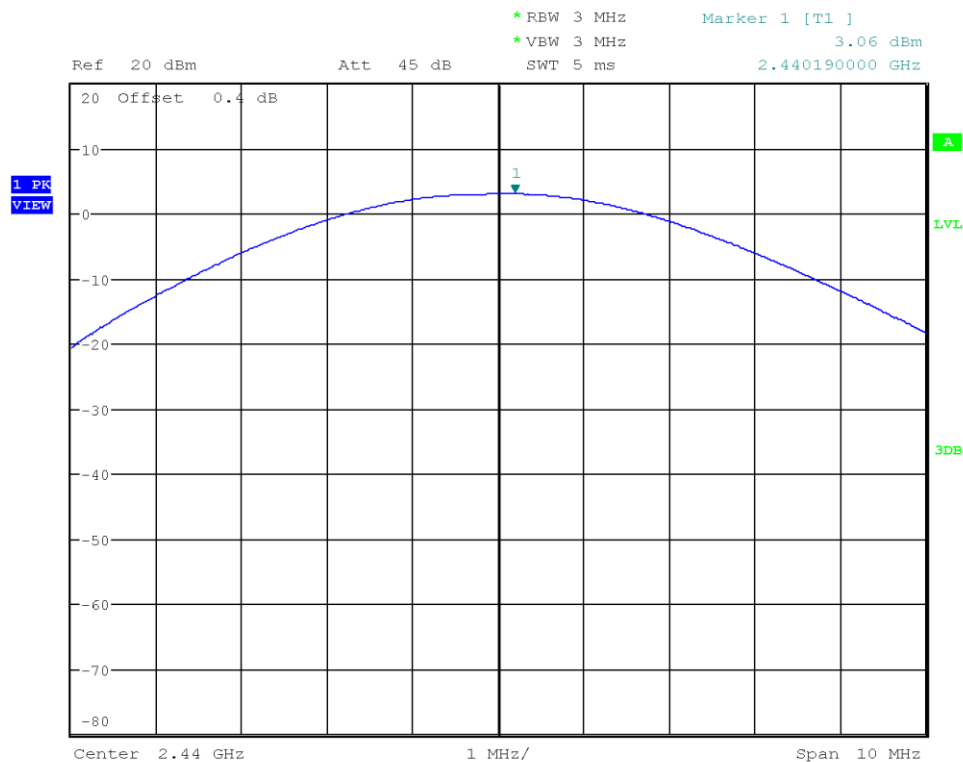
Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35705
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Charline Graf
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-20
 Peak Power [dBm]: 3.196
 Peak Power [W]: 0.0021



Date: 20.SEP.2021 19:45:01

Peak Conducted Output Power

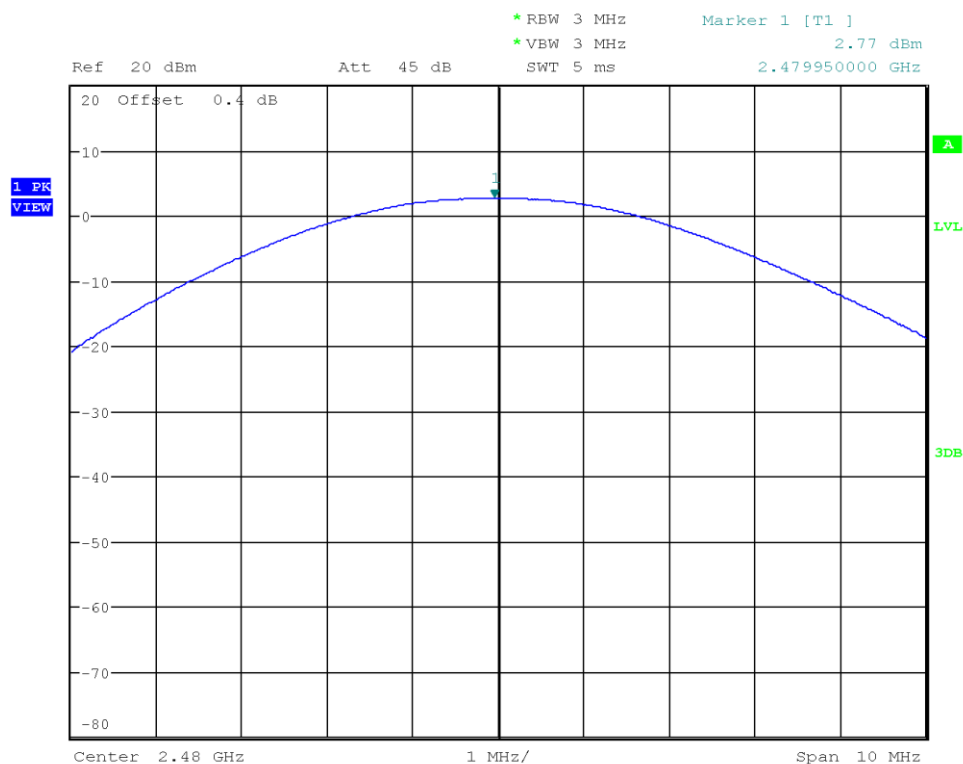
Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35705
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Charline Graf
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-20
 Peak Power [dBm]: 3.062
 Peak Power [W]: 0.0020



Date: 20.SEP.2021 19:46:06

Peak Conducted Output Power

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35705
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Charline Graf
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-20
 Peak Power [dBm]: 2.773
 Peak Power [W]: 0.0019



Date: 20.SEP.2021 19:47:10

3.4 Test Conditions and Results - Power spectral density

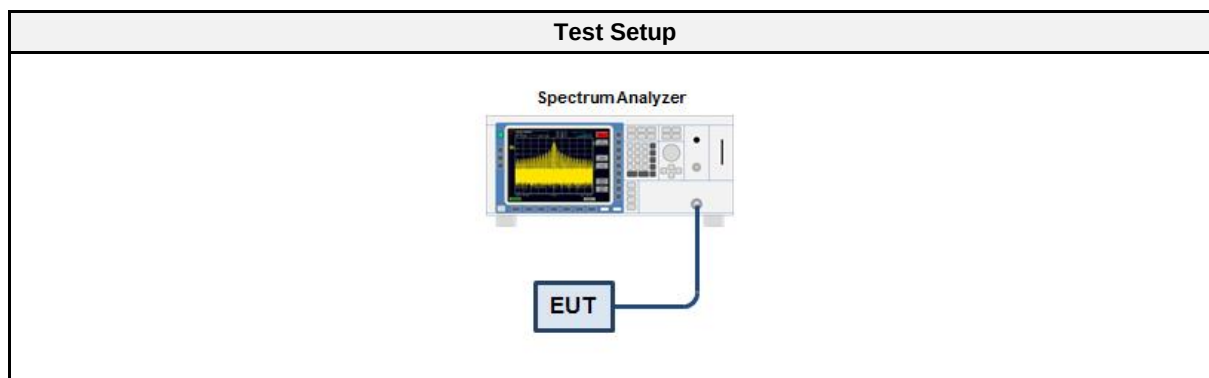
3.4.1 Information

Test Information	
Reference	FCC § 15.247(e); ISSED RSS-247, Issue 2 (section 5.2)
Measurement Method	ANSI C63.10 11.10.2, 14.3.2
Measurement Uncertainty	± 2.86 dB
Operator	Charline Graf
Date	2021-09-20

3.4.2 Limits

Limits
8 dBm / 3 kHz

3.4.3 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)	— (diverse)	EF00779 CAAAT	2020-12	2021-12

3.4.5 Procedure

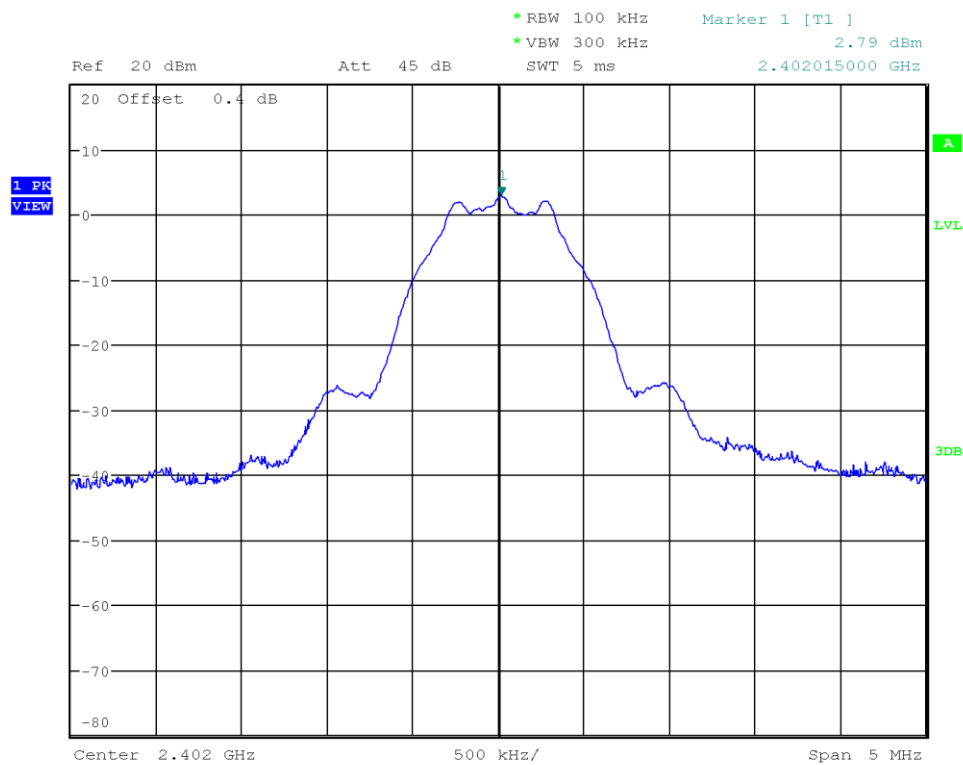
Test Procedure
1. EUT set to test mode 2. The analyzer is set to DTS channel center frequency with a span of 1.5 times the DTS bandwidth 3. The RBW is set to 100 kHz with VBW $\geq$ RBW and the detector is set to peak with max hold 4. After the trace has stabilized a marker is set to the envelope maximum 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			
Channel [MHz]	PSD [dBm/RBW]	Limit [dBm/3kHz]	Verdict
2402	2.786	8.0	PASS
2440	2.627	8.0	PASS
2480	2.348	8.0	PASS
RBW = 100 kHz			

Peak Power Spectral Density

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35705
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Charline Graf
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-20
 Peak Frequency [MHz]: 2402.015
 Spectral Density [dBm/RBW]: 2.786
 Resolution Bandwidth [kHz]: 100 kHz



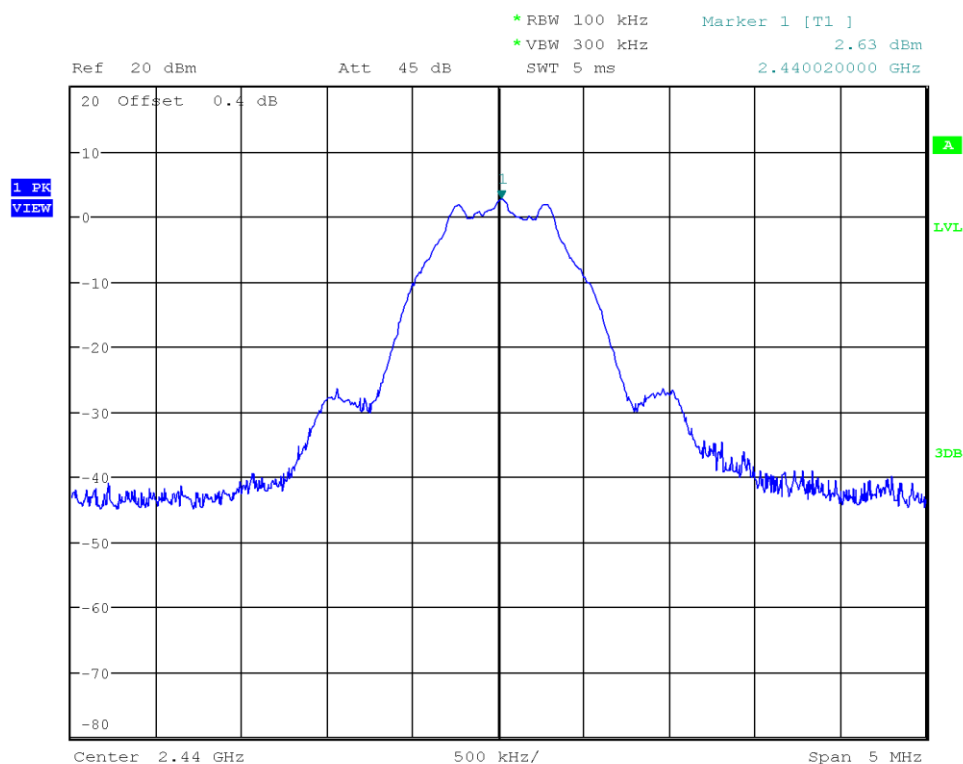
Date: 20.SEP.2021 20:24:02

Test Report No.: G0M-2106-9857-TFC247BL-V02

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

Peak Power Spectral Density

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35705
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Charline Graf
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-20
 Peak Frequency [MHz]: 2440.020
 Spectral Density [dBm/RBW]: 2.627
 Resolution Bandwidth [kHz]: 100 kHz



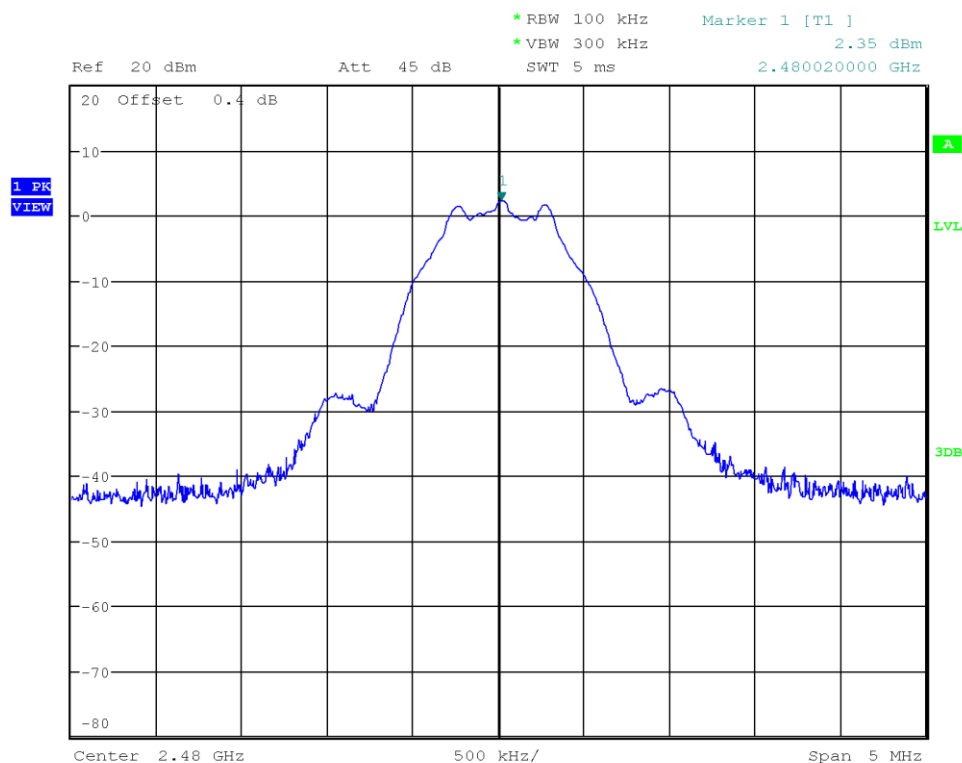
Date: 20.SEP.2021 20:24:59

Test Report No.: G0M-2106-9857-TFC247BL-V02

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

Peak Power Spectral Density

Project Number:	G0M-2106-9857
Applicant:	ANDREAS STIHL AG & Co. KG
Model Description:	battery pack 4871 AR-C
Model:	AR 3000 L
Test Sample ID:	35705
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.10.2
Operational Mode:	GFSK, Channel: 39, 2480 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Charline Graf
Test Site:	Eurofins Product Service GmbH
Test Date:	2021-09-20
Peak Frequency [MHz]:	2480.020
Spectral Density [dBm/RBW]:	2.348
Resolution Bandwidth [kHz]:	100 kHz



Date: 20.SEP.2021 20:26:01

3.5 Test Conditions and Results - AC powerline conducted emissions

3.5.1 Information

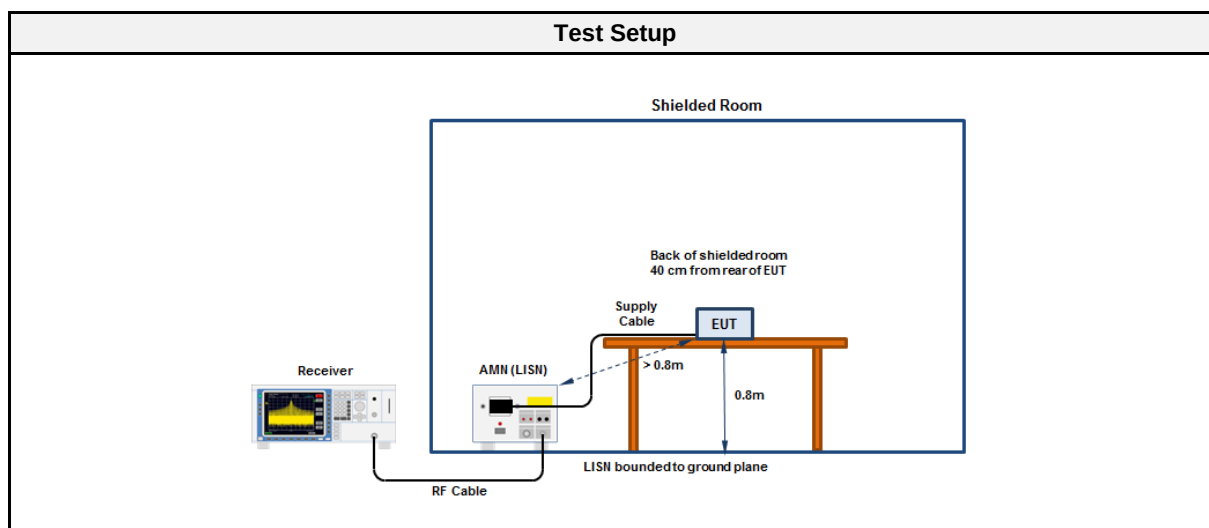
Test Information	
Reference	FCC § 15.207; ISED RSS-247, Issue 2 (section 3.1)
Measurement Method	ANSI C63.10 6.2
Measurement Uncertainty	± 3.82 dB
Operator	Charline Graf
Date	2021-09-20

3.5.2 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

3.5.3 Setup



3.5.4 Equipment

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

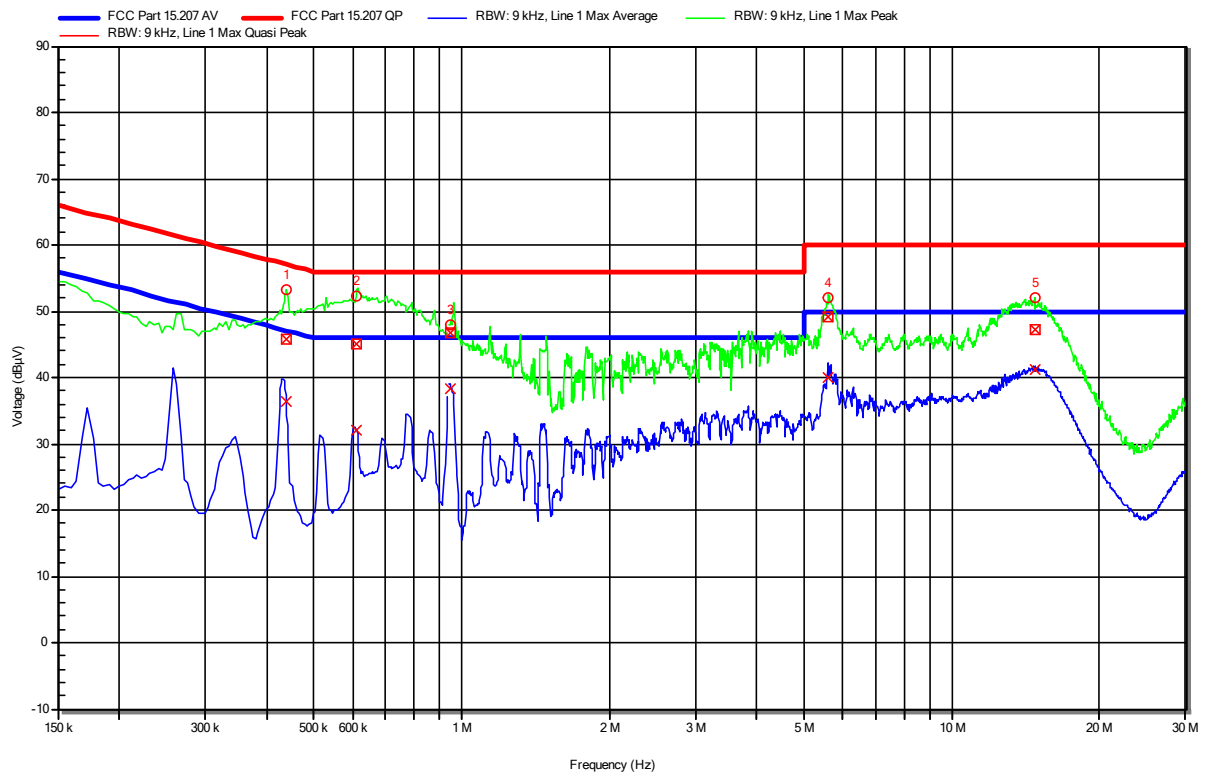
Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Test Receiver	R&S	ESR7	EF00943	2021-08	2022-08
Pulse Limiter	R&S	ESH3-Z2	EF01222	2021-07	2022-07
LISN	Schwarzbeck	NSLK 8127 RC	EF01592	2021-07	2022-07

Conducted emissions at the mains power port according to FCC 47 CFR Part 15 Subpart C

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35704
 Test Site: Eurofins Product Service GmbH
 Operator: Mrs. Graf
 Test Date: 2021-08-31
 Operating Conditions: ambient temperature: 22 °Celsius
 power input: 120V AC / 60Hz
 LISN: Schwarzbeck NSLK 8127 RC L
 Operational Mode & EUT Configuration: BTLE, 2402 MHz
 Applied to Port: AC mains

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RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	438 kHz	45.88 dBµV	57.1 dBµV	-11.22 dB	Pass	Line 1
2	609 kHz	45.06 dBµV	56 dBµV	-10.94 dB	Pass	Line 1
3	951 kHz	46.84 dBµV	56 dBµV	-9.16 dB	Pass	Line 1
4	5.604 MHz	49.11 dBµV	60 dBµV	-10.89 dB	Pass	Line 1
5	14.807 MHz	47.28 dBµV	60 dBµV	-12.72 dB	Pass	Line 1

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	438 kHz	36.32 dBµV	47.1 dBµV	-10.78 dB	Pass	Line 1
2	609 kHz	32.14 dBµV	46 dBµV	-13.86 dB	Pass	Line 1
3	951 kHz	38.39 dBµV	46 dBµV	-7.61 dB	Pass	Line 1
4	5.604 MHz	40.08 dBµV	50 dBµV	-9.92 dB	Pass	Line 1
5	14.807 MHz	41.32 dBµV	50 dBµV	-8.68 dB	Pass	Line 1

Test Report No.: G0M-2106-9857-TFC247BL-V02

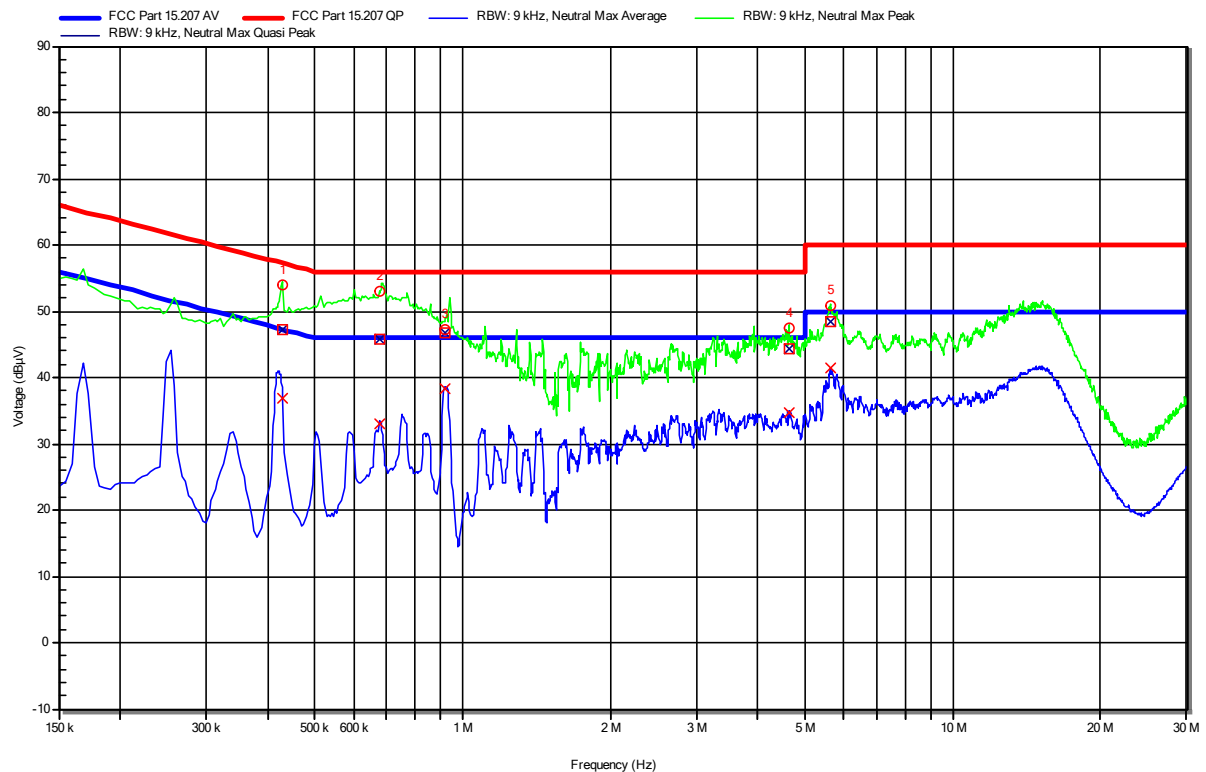
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted emissions at the mains power port according to FCC 47 CFR Part 15 Subpart C

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35704
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-08-31
 Operating Conditions: ambient temperature: 22 °Celsius
 power input: 120V AC / 60Hz
 LISN: Schwarzbeck NSLK 8127 RC N
 Operational Mode & EUT Configuration: BTLE, 2440 MHz
 Applied to Port: Ac mains

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RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	428.55 kHz	47.15 dBµV	57.28 dBµV	-10.13 dB	Pass	Neutral
2	676.5 kHz	45.74 dBµV	56 dBµV	-10.26 dB	Pass	Neutral
3	924 kHz	46.67 dBµV	56 dBµV	-9.33 dB	Pass	Neutral
4	4.622 MHz	44.41 dBµV	56 dBµV	-11.59 dB	Pass	Neutral
5	5.618 MHz	48.53 dBµV	60 dBµV	-11.47 dB	Pass	Neutral

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	428.55 kHz	36.81 dBµV	47.28 dBµV	-10.47 dB	Pass	Neutral
2	676.5 kHz	33.07 dBµV	46 dBµV	-12.93 dB	Pass	Neutral
3	924 kHz	38.31 dBµV	46 dBµV	-7.69 dB	Pass	Neutral
4	4.622 MHz	34.6 dBµV	46 dBµV	-11.4 dB	Pass	Neutral
5	5.618 MHz	41.35 dBµV	50 dBµV	-8.65 dB	Pass	Neutral

Test Report No.: G0M-2106-9857-TFC247BL-V02

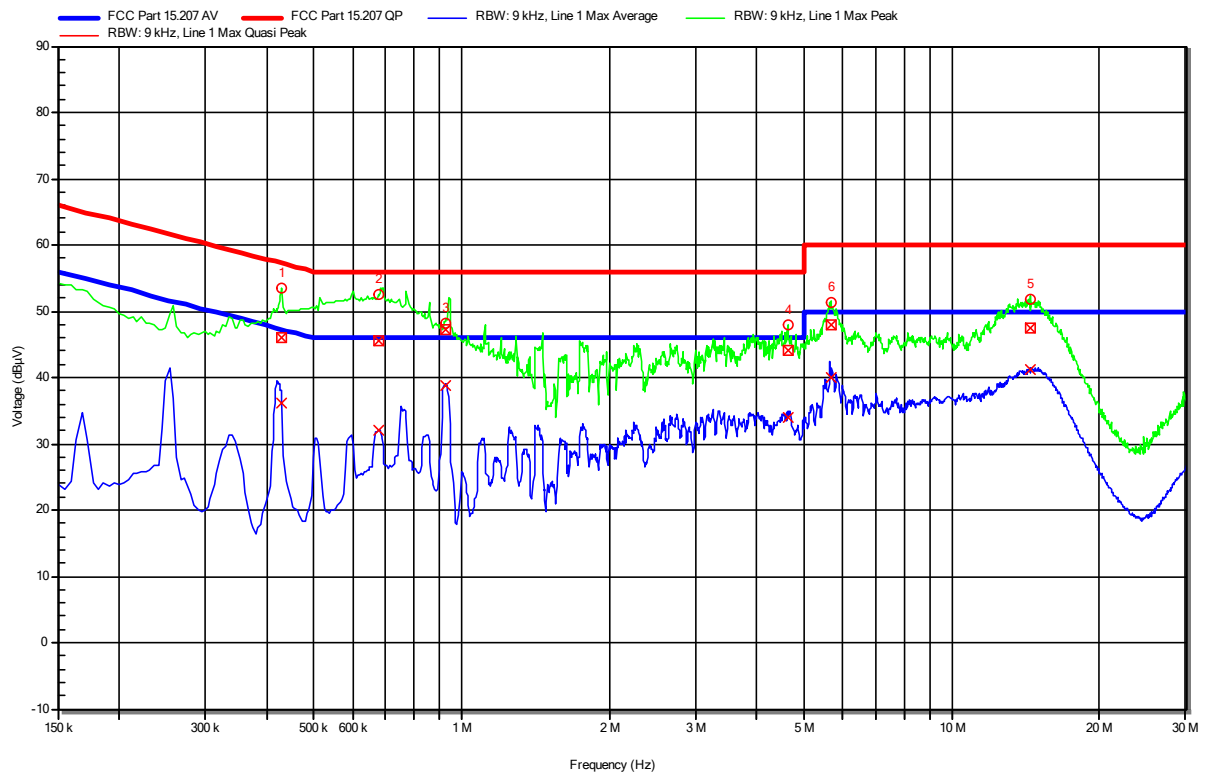
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted emissions at the mains power port according to FCC 47 CFR Part 15 Subpart C

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35704
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2021-08-31
 Operating Conditions: ambient temperature: 22 °Celsius
 power input: 120V AC / 60Hz
 LISN: Schwarzbeck NSLK 8127 RC L
 Operational Mode & EUT Configuration: BTLE, 2480 MHz
 Applied to Port: AC mains

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RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	429 kHz	46.02 dBµV	57.27 dBµV	-11.25 dB	Pass	Line 1
2	676.5 kHz	45.44 dBµV	56 dBµV	-10.56 dB	Pass	Line 1
3	928.5 kHz	47.26 dBµV	56 dBµV	-8.74 dB	Pass	Line 1
4	4.632 MHz	44.2 dBµV	56 dBµV	-11.8 dB	Pass	Line 1
5	14.451 MHz	47.38 dBµV	60 dBµV	-12.62 dB	Pass	Line 1
6	5.658 MHz	47.86 dBµV	60 dBµV	-12.14 dB	Pass	Line 1

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	429 kHz	36.06 dBµV	47.27 dBµV	-11.21 dB	Pass	Line 1
2	676.5 kHz	32.05 dBµV	46 dBµV	-13.95 dB	Pass	Line 1
3	928.5 kHz	38.83 dBµV	46 dBµV	-7.17 dB	Pass	Line 1
4	4.632 MHz	33.95 dBµV	46 dBµV	-12.05 dB	Pass	Line 1
5	14.451 MHz	41.21 dBµV	50 dBµV	-8.79 dB	Pass	Line 1
6	5.658 MHz	40.09 dBµV	50 dBµV	-9.91 dB	Pass	Line 1

Test Report No.: G0M-2106-9857-TFC247BL-V02

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

3.6 Test Conditions and Results - Band-edge compliance

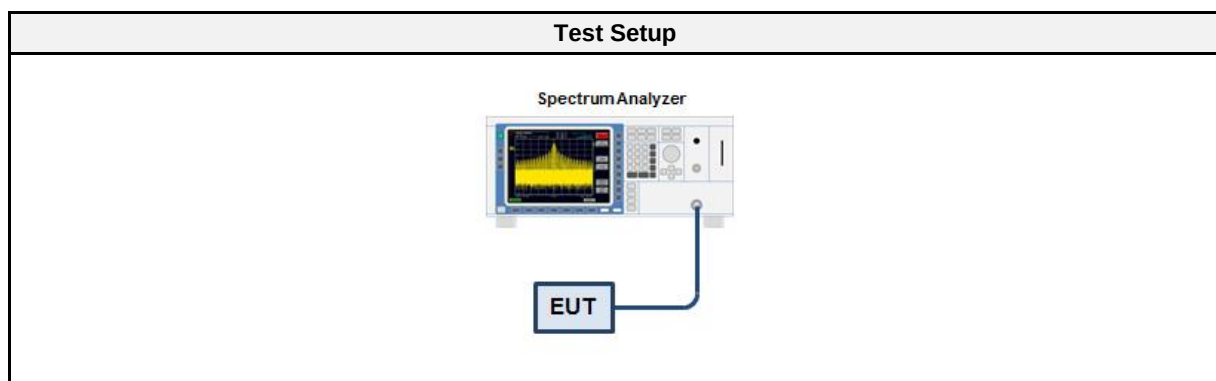
3.6.1 Information

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	Charline Graf
Date	2021-09-20

3.6.2 Limits

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

3.6.3 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)	– (diverse)	EF00779 CAAAT	2020-12	2021-12

3.6.5 Procedure

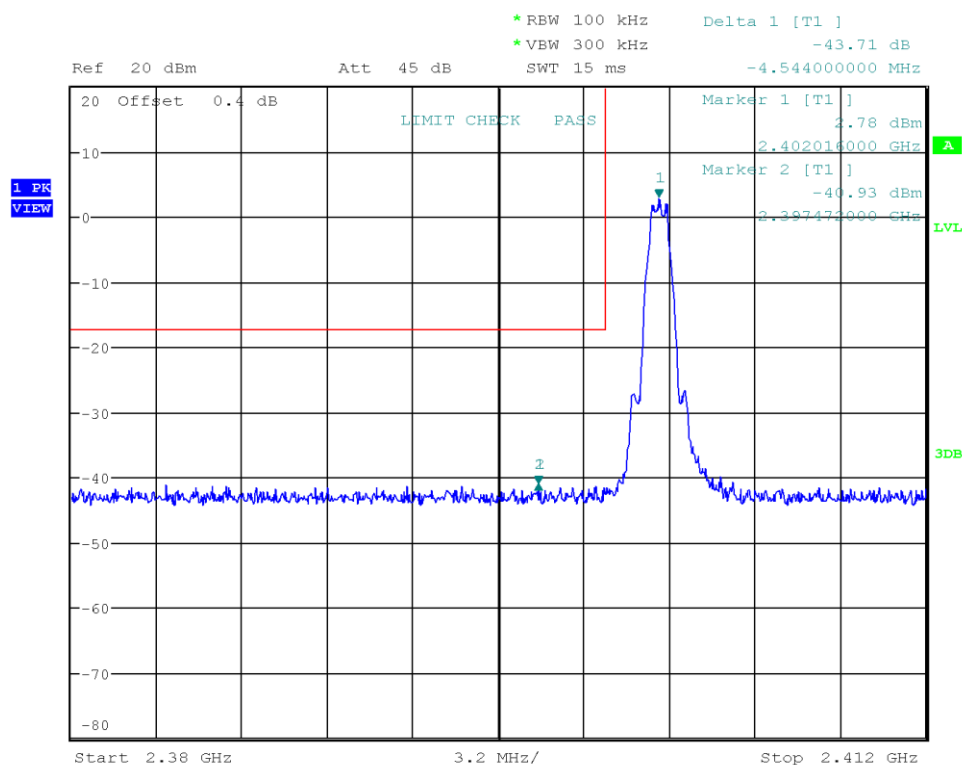
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels within frequency band and outside frequency band 5. Band edge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

3.6.6 Results

Test Results				
Mode	Channel [MHz]	Out-of-band Attenuation [dB]	Limit [dB]	Verdict
GFSK	2402	-40.932	-20	PASS
GFSK	2480	-40.301	-20	PASS

Emissions in nonrestricted frequency bands at the Band-edge

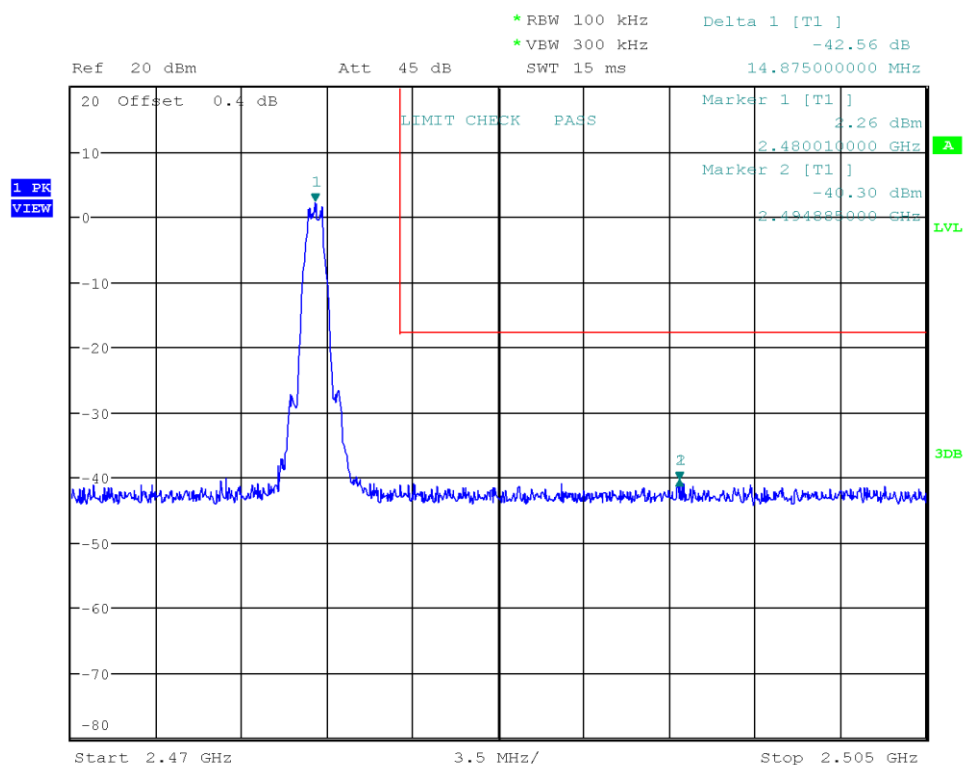
Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35705
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operating Conditions: Tnom/Vnom
 Operator: Charline Graf
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-20
 Band-edge: Lower
 In-band Frequency [MHz]: 2402.016
 Max. in-band Level [dBm/100 kHz]: 2.782
 Out-of-band Frequency [MHz]: 2397.472
 Max. out-of-band Level [dBm/100 kHz]: -40.932
 Attenuation [dB]: -43.71



Date: 20.SEP.2021 20:29:42

Emissions in nonrestricted frequency bands at the Band-edge

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35705
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operating Conditions: Tnom/Vnom
 Operator: Charline Graf
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-20
 Band-edge: Upper
 In-band Frequency [MHz]: 2480.01
 Max. in-band Level [dBm/100 kHz]: 2.262
 Out-of-band Frequency [MHz]: 2494.885
 Max. out-of-band Level [dBm/100 kHz]: -40.301
 Attenuation [dB]: -42.56



Date: 20.SEP.2021 22:15:36

Test Report No.: G0M-2106-9857-TFC247BL-V02

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

3.7 Test Conditions and Results - Conducted spurious emissions

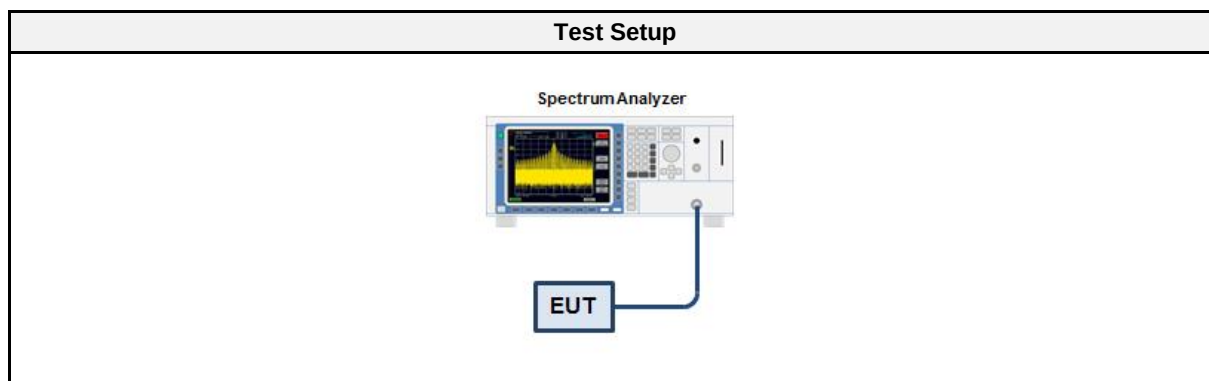
3.7.1 Information

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	Charline Graf
Date	2021-09-20

3.7.2 Limits

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

3.7.3 Setup



3.7.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 26	EF01709	2021-02	2022-02
Cable	– (diverse)	– (diverse)	EF00779 CAAAT	2020-12	2021-12

3.7.5 Procedure

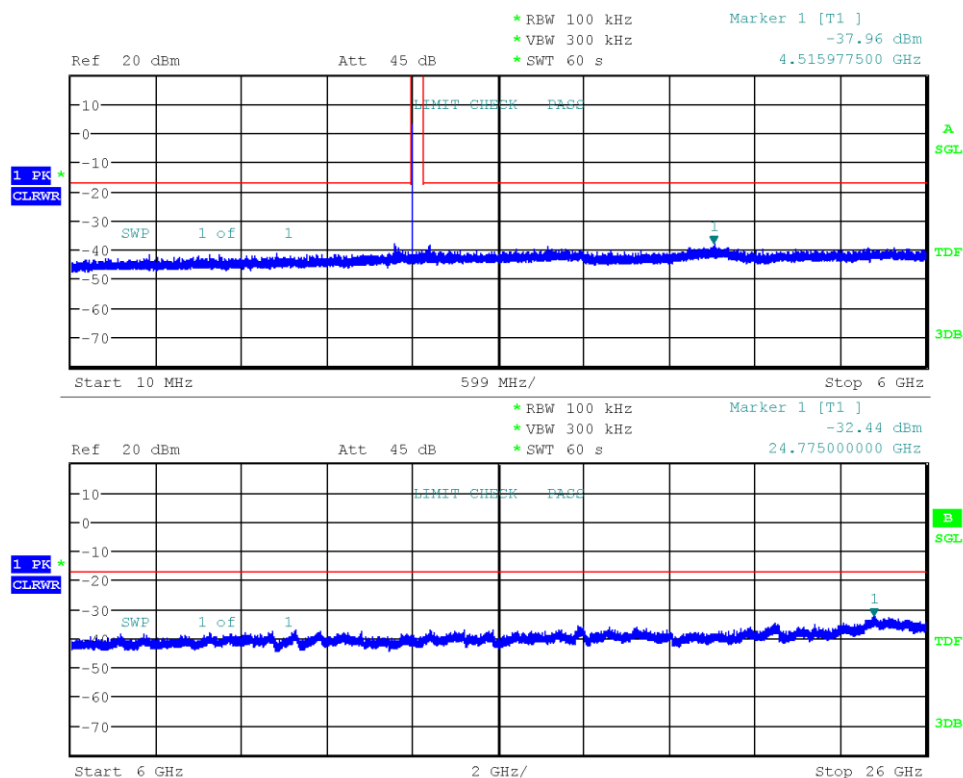
Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels outside frequency band

3.7.6 Results

Test Results		
Mode	Channel [MHz]	Verdict
GFSK	2402	PASS
GFSK	2440	PASS
GFSK	2480	PASS

Conducted Spurious Emissions

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35705
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Charline Graf
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-20
 Max. in-band Frequency [MHz]: 2402.0
 Max. in-band Level [dBm/100 kHz]: 2.9
 Out-of-band Limit [dBm/100 kHz]: -17.1



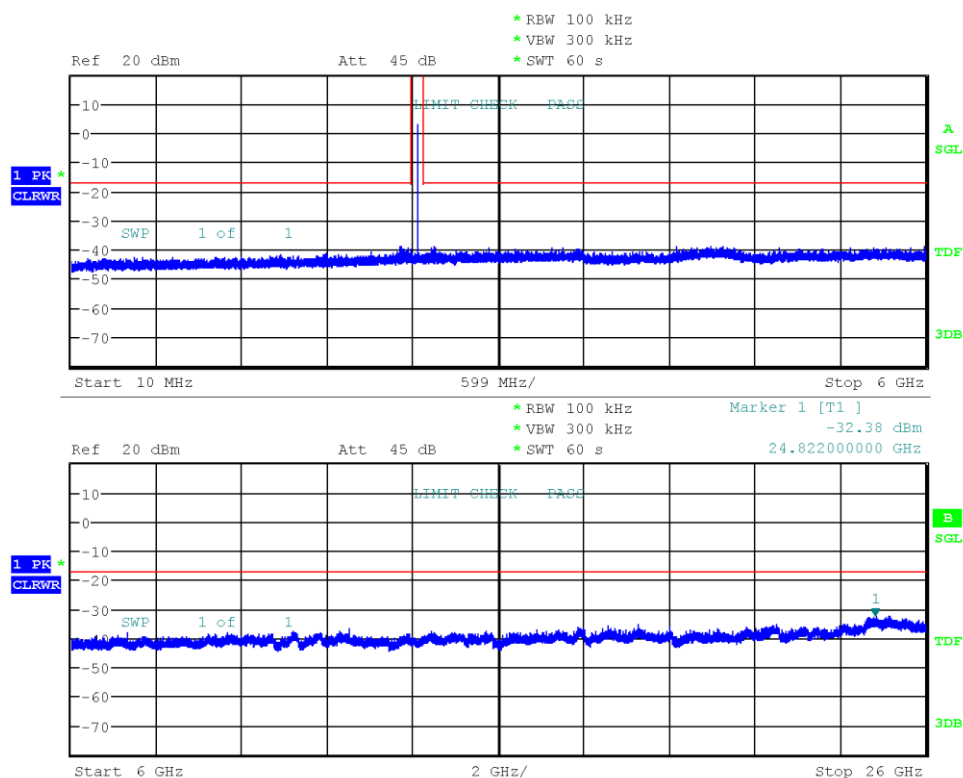
Date: 20.SEP.2021 20:49:37

Test Report No.: G0M-2106-9857-TFC247BL-V02

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

Conducted Spurious Emissions

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35705
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Charline Graf
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-20
 Max. in-band Frequency [MHz]: 2440.0
 Max. in-band Level [dBm/100 kHz]: 2.8
 Out-of-band Limit [dBm/100 kHz]: -17.2



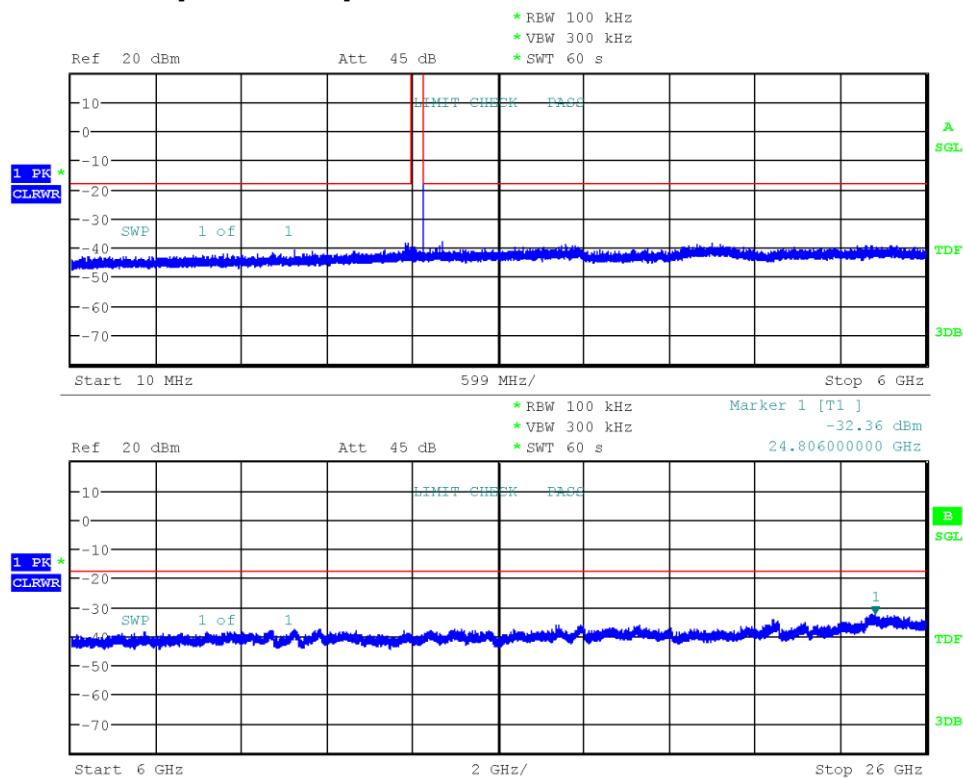
Date: 20.SEP.2021 20:40:10

Test Report No.: G0M-2106-9857-TFC247BL-V02

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

Conducted Spurious Emissions

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: battery pack 4871 AR-C
 Model: AR 3000 L
 Test Sample ID: 35705
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Charline Graf
 Test Site: Eurofins Product Service GmbH
 Test Date: 2021-09-20
 Max. in-band Frequency [MHz]: 2480.0
 Max. in-band Level [dBm/100 kHz]: 2.5
 Out-of-band Limit [dBm/100 kHz]: -17.5



Date: 20.SEP.2021 20:43:13

Test Report No.: G0M-2106-9857-TFC247BL-V02

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

3.8 Test Conditions and Results - Transmitter radiated emissions

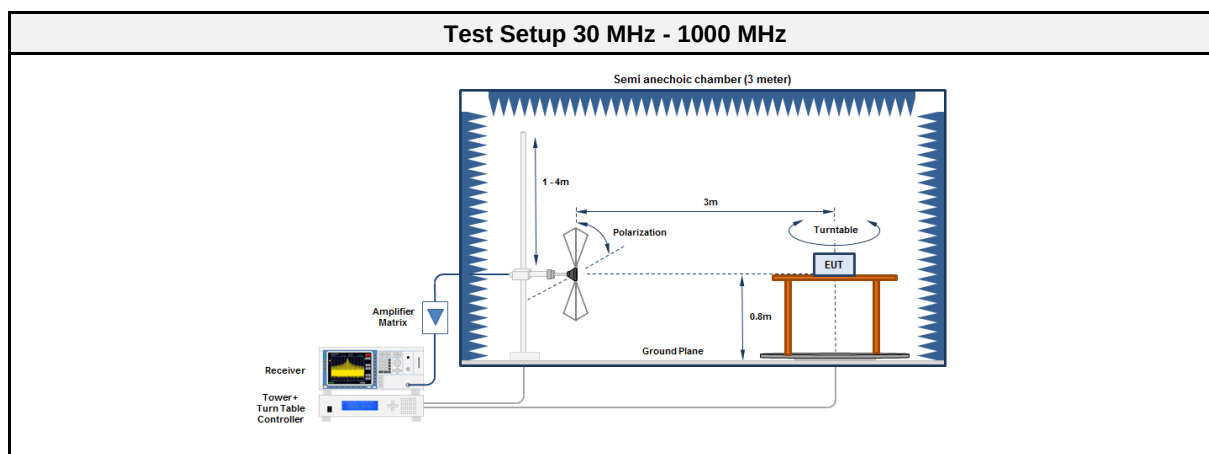
3.8.1 Information

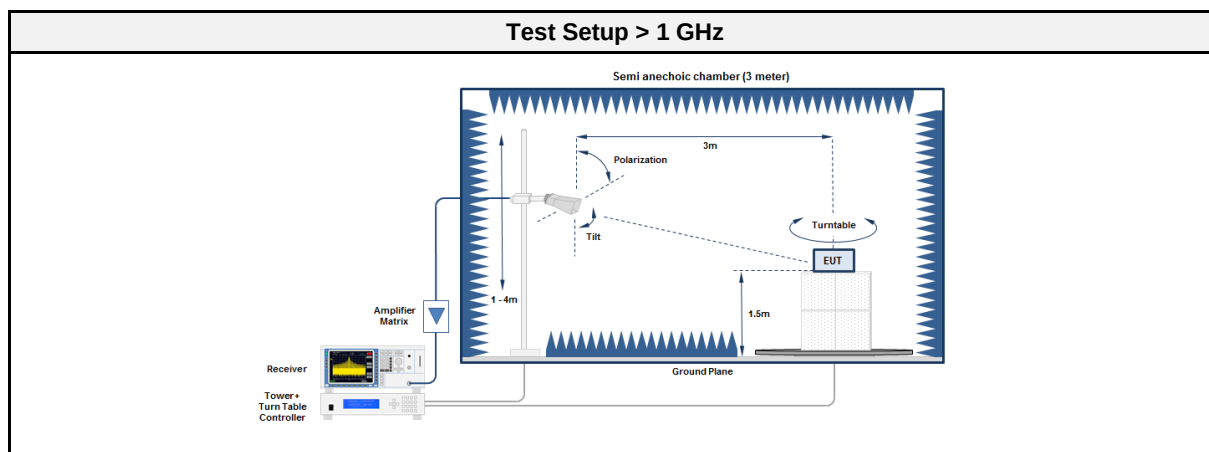
Test Information	
Reference	FCC § 15.247(d); FCC § 15.209; ISSED RSS-Gen, Issue 5 (section 6.13)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.10 6.4, 6.5, 6.6, 11.12
Operator	Charline Graf
Date	2021-09-15

3.8.2 Limits

Limits			
Frequency range [MHz]	Detector	Field strength [$\mu\text{V/m}$]	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

3.8.3 Setup





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	2021-07	2022-07
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	2021-07	2022-07
Antenna	Schwarzbeck	BBHA 9120D	EF00018	2019-10	2022-10
Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2022-03
Antenna	Amplifier Research	AT4560	EF00302	2021-06	2023-06

3.8.5 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	

3.8.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2402	112.71	30.27	pk	hor	42.52	-12.25
2402	240.23	34.06	pk	ver	46.00	-11.94
2402	2356.3	52.54	pk	Ver	74.00	-21.46
2402	2356.3	47.41	av	ver	54.00	-6.59
2440	136.48	37.82	pk	hor	42.52	-4.7
2440	240.237	35.27	pk	hor	46.0	-10.73
2440	240.505	32.79	pk	ver	46.0	-13.21
2440	2332.2	52.67	pk	ver	74.0	-21.33
2440	2332.2	49.57	av	ver	54.0	-4.43
2480	240.552	36.93	pk	hor	46.0	-9.07
2480	2352.0	52.36	pk	ver	74.0	-21.64
2480	2672.0	48.13	pk	ver	74.0	-25.87
2480	2352.0	48.56	av	ver	54.0	-5.44
2480	2672.0	43.79	av	ver	54.0	-10.21
2480	7440.0	46.79	pk	hor	74.0	-27.21
2480	7440.0	39.36	av	hor	54.0	-14.64

3.9 Test Conditions and Results - Receiver radiated emissions

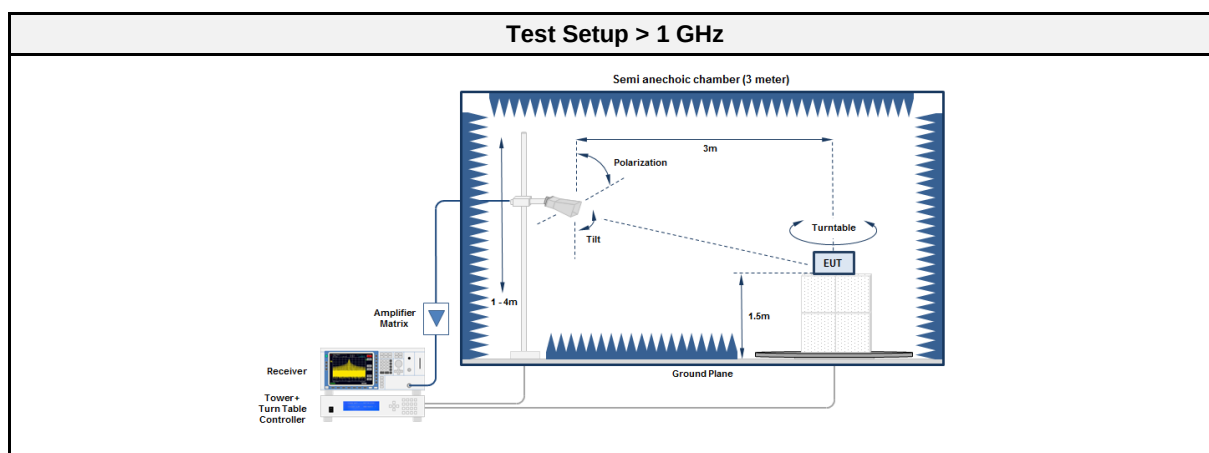
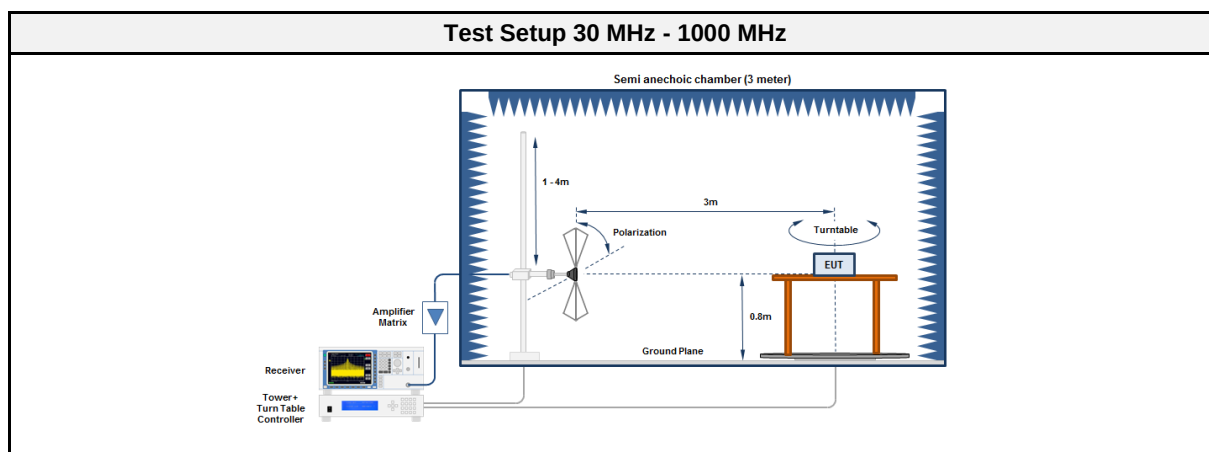
3.9.1 Information

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	Charline Graf
Date	2021-09-16

3.9.2 Limits

Limits			
Frequency range [MHz]	Detector	Field strength [$\mu\text{V/m}$]	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

3.9.3 Setup



3.9.4 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	2021-07	2022-07
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	2021-07	2022-07
Antenna	Schwarzbeck	BBHA 9120D	EF00018	2019-10	2022-10
Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2022-03
Antenna	Amplifier Research	AT4560	EF00302	2021-06	2023-06

3.9.5 Procedure

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

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

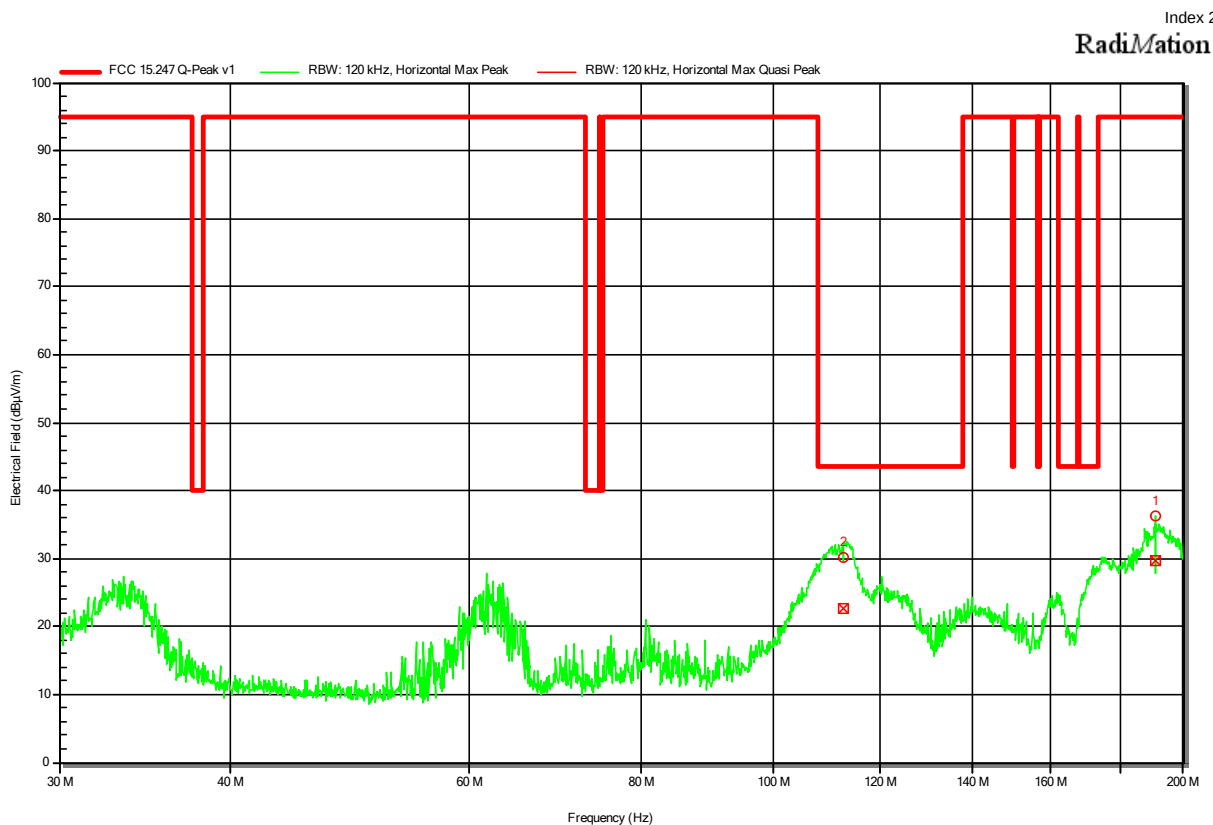
3.9.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2440	1076	54.88	pk	ver	74.0	-19.12
2440	1076	43.69	avg	ver	53.98	-10.29
2440	1175	46.77	pk	ver	74.0	-27.23
2440	1175	22.14	avg	ver	53.98	-31.84
2440	1175	32.59	pk	ver	74.0	-41.41
2440	1175	22.14	avg	ver	53.98	-31.84

ANNEX A Transmitter spurious emissions

Radiated Spurious Emissions according to 47 CFR § 15.247

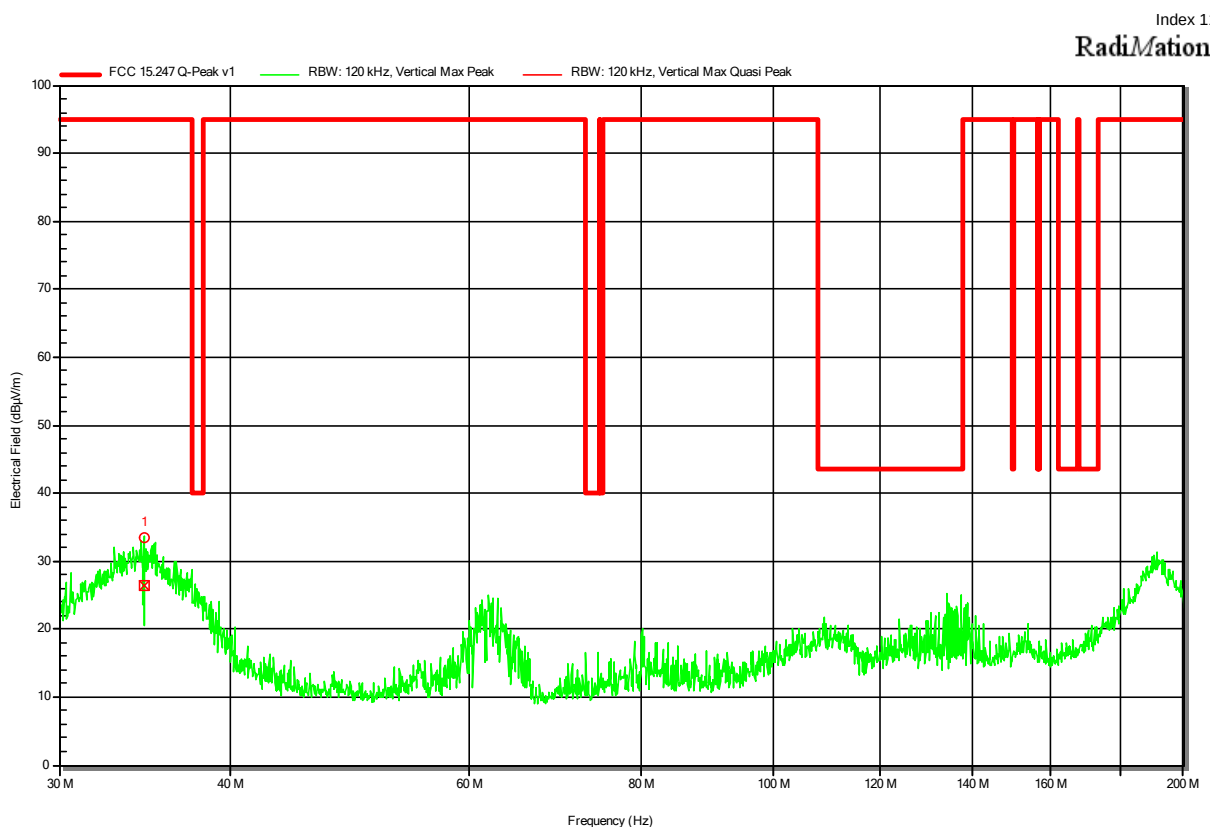
Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; 2402 MHz, data length 37 Byte
 Test Date: 2021-08-30
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
112.713 MHz	30.27 dBµV/m	42.52 dBµV/m	-12.25	Pass	Horizontal
190.599 MHz	36.15 dBµV/m	95 dBµV/m	-58.85	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; 2402 MHz, data length 37 Byte
 Test Date: 2021-09-01
 Note:



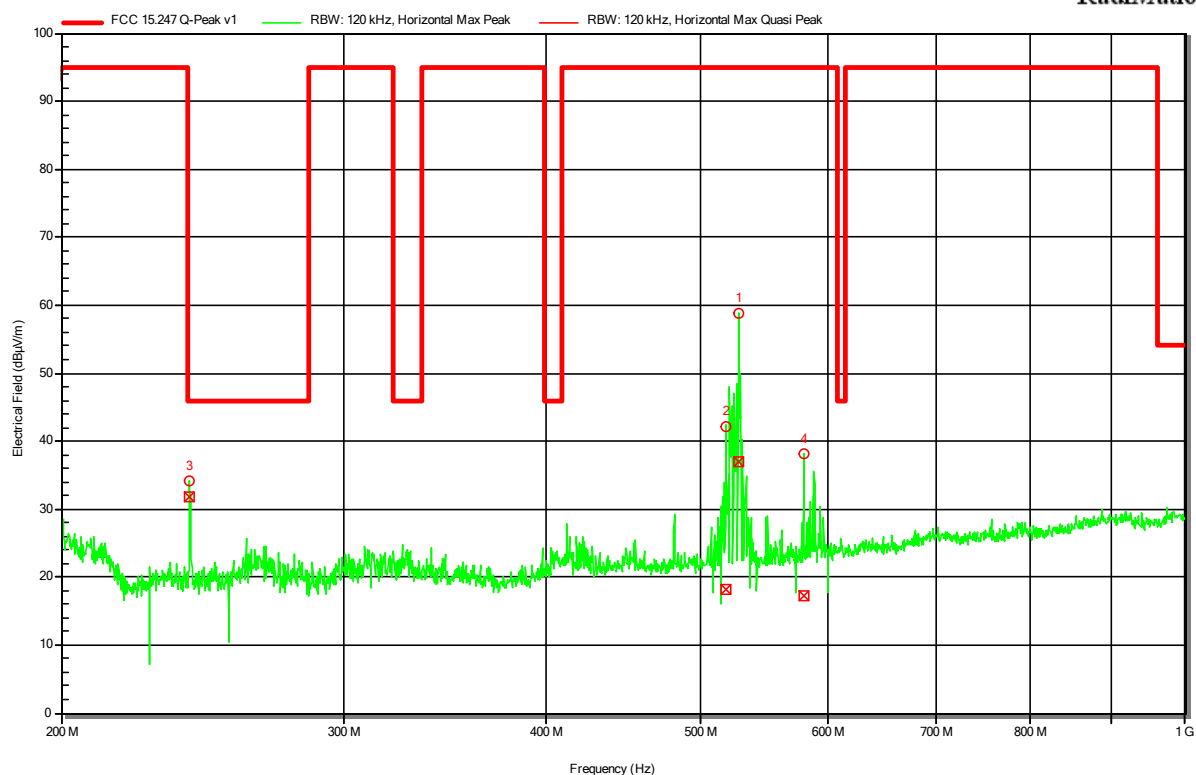
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
34.594 MHz	33.54 dBμV/m	95 dBμV/m	-61.46	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; 2402 MHz, data length 37 Byte
 Test Date: 2021-08-30
 Note:

Index 3

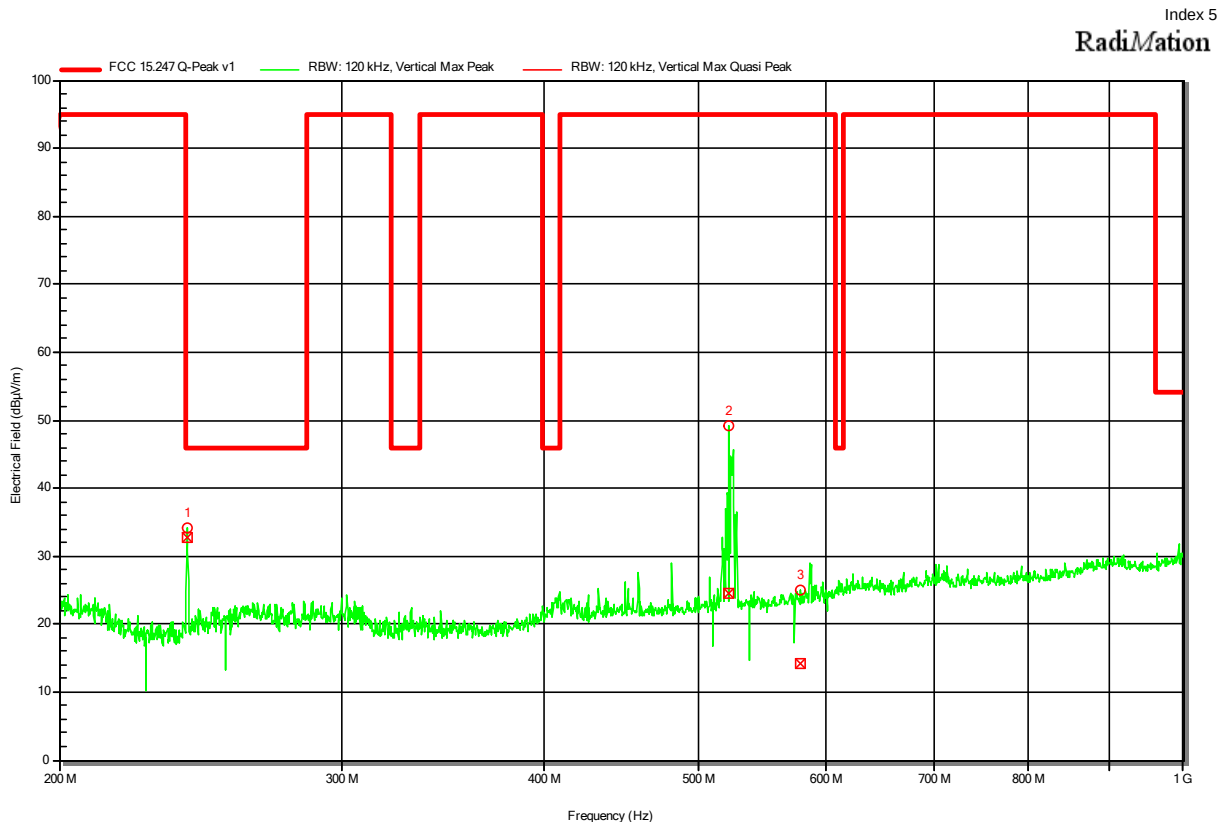
RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
518.438 MHz	42.18 dBμV/m	95 dBμV/m	-52.82 dBμV/m	Pass	Horizontal
527.148 MHz	58.73 dBμV/m	95 dBμV/m	-36.27 dBμV/m	Pass	Horizontal
578.72 MHz	38.13 dBμV/m	95 dBμV/m	-56.70 dBμV/m	Pass	Horizontal
240.501 MHz	34.19 dBμV/m	46 dBμV/m	-29.81 dBμV/m	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; 2402 MHz, data length 37 Byte
 Test Date: 2021-08-30
 Note:



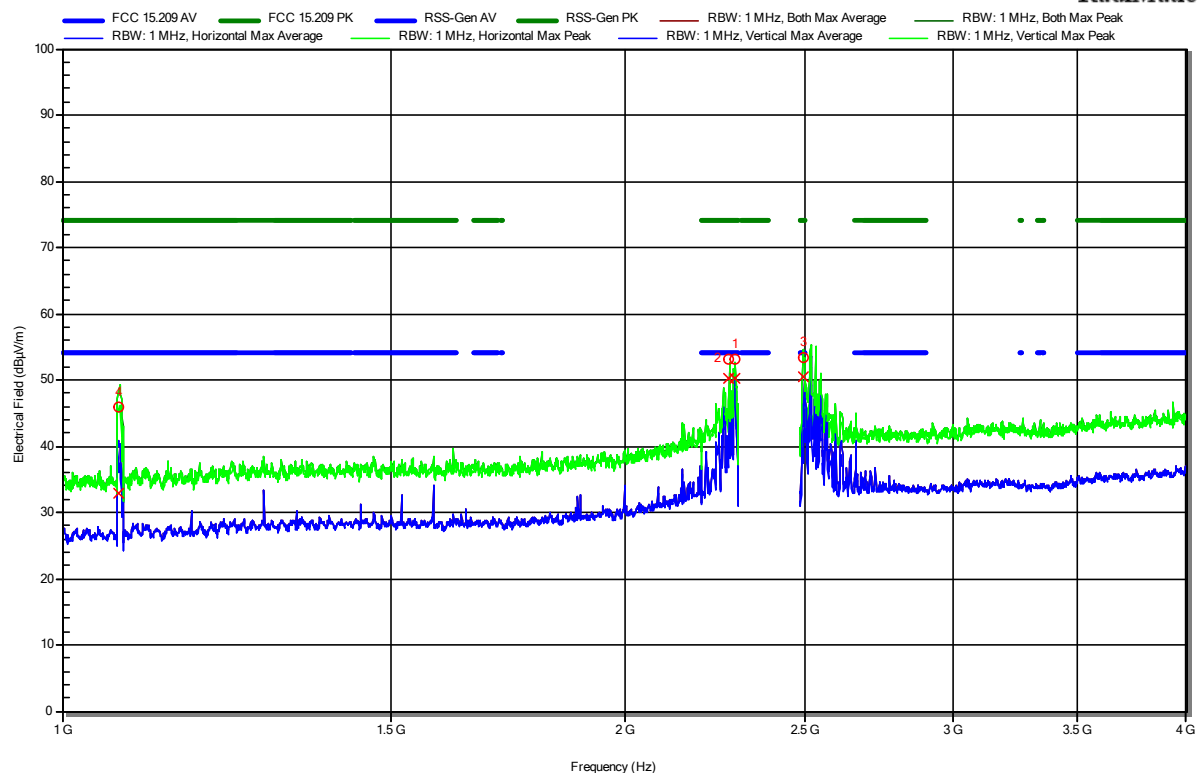
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
522.16 MHz	49.27 dBμV/m	95 dBμV/m	-45.73 dBμV/m	Pass	Vertical
578.458 MHz	24.93 dBμV/m	95 dBμV/m	-70.07 dBμV/m	Pass	Vertical
240.23 MHz	34.06 dBμV/m	46 dBμV/m	-11.94 dBμV/m	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; 2402 MHz, data length 37 Byte
 Test Date: 2021-09-15
 Note:

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RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.0729 GHz	45.84 dBμV/m	74 dBμV/m	-28.16 dB	Pass	Horizontal
2.2758 GHz	53.2 dBμV/m	74 dBμV/m	-20.8 dB	Pass	Vertical
2.2917 GHz	53.17 dBμV/m	74 dBμV/m	-20.83 dB	Pass	Vertical
2.4965 GHz	53.3 dBμV/m	74 dBμV/m	-20.7 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
1.0729 GHz	33.01 dBμV/m	54 dBμV/m	-20.99 dB	Pass	Horizontal
2.2758 GHz	50.17 dBμV/m	54 dBμV/m	-3.83 dB	Pass	Vertical
2.2917 GHz	50.25 dBμV/m	54 dBμV/m	-3.75 dB	Pass	Vertical
2.4965 GHz	50.5 dBμV/m	54 dBμV/m	-3.5 dB	Pass	Vertical

Test Report No.: G0M-2106-9857-TFC247BL-V02

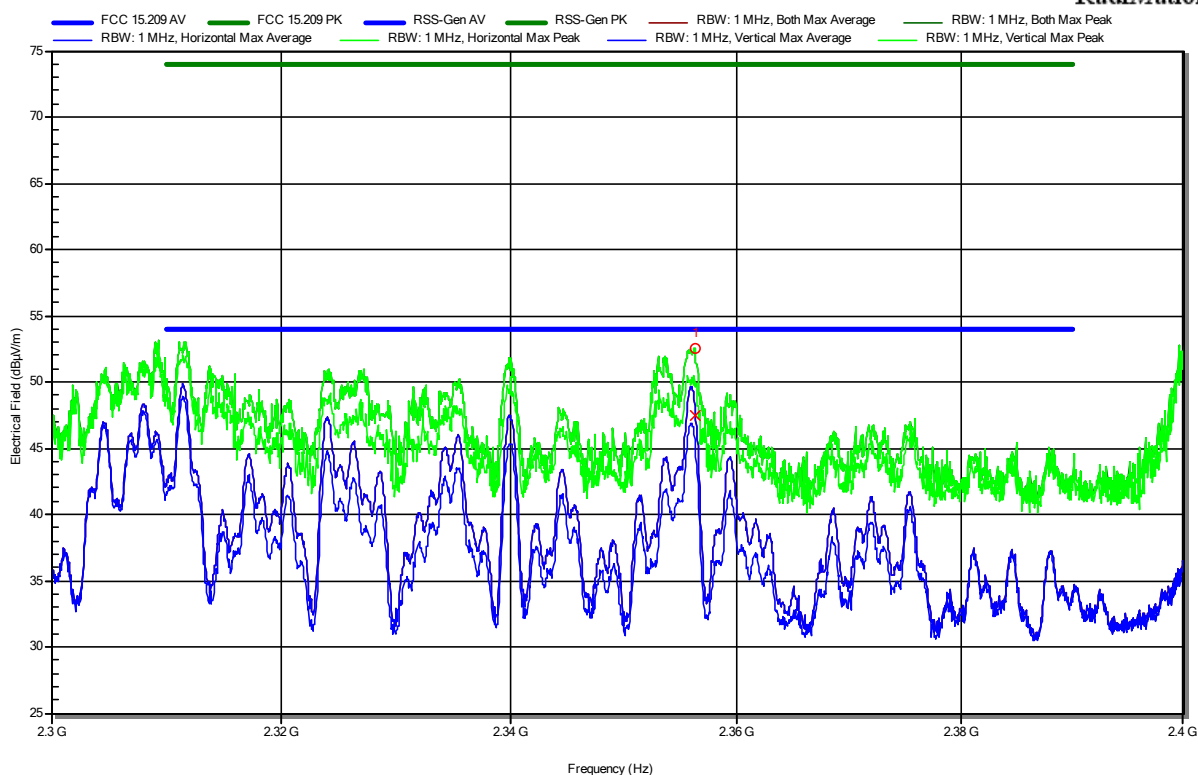
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; 2402 MHz, data length 37 Byte
 Test Date: 2021-09-15
 Note:

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RadiMation



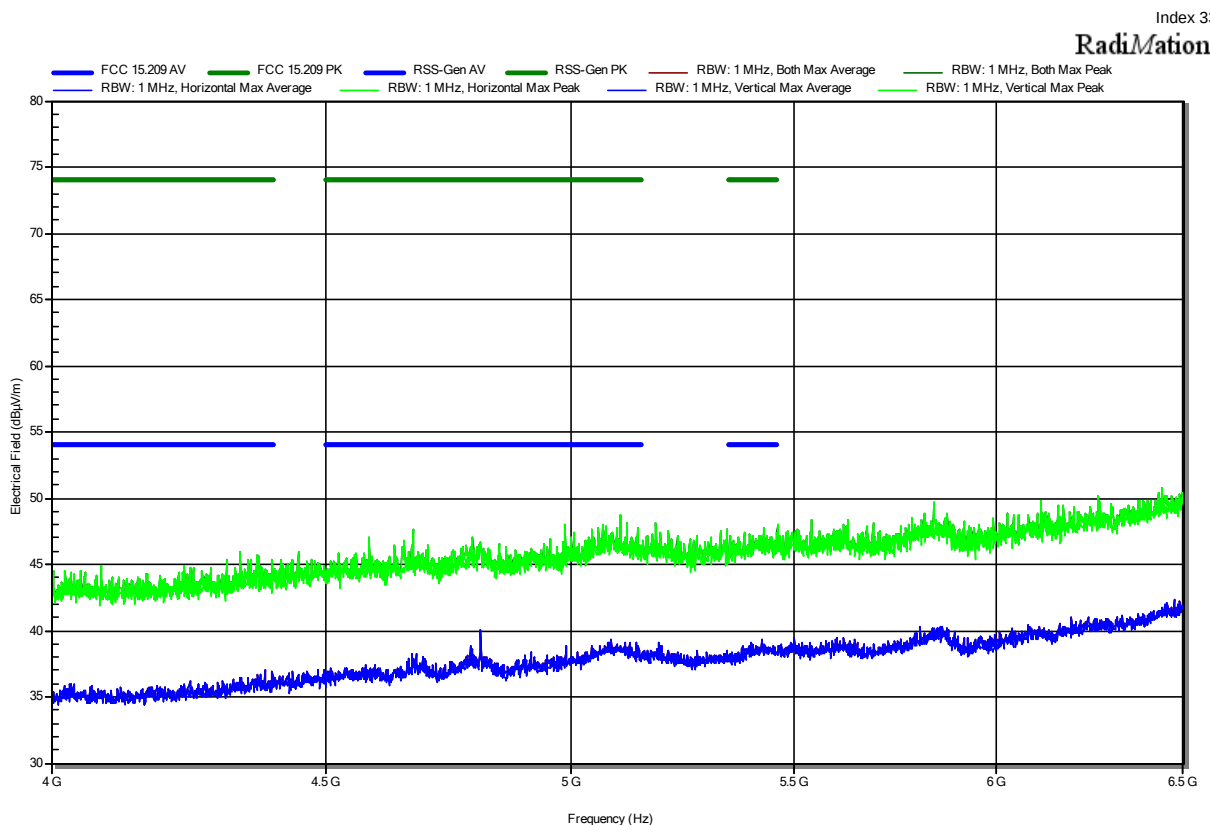
Frequency 2.3563 GHz	Peak 52.54 dBμV/m	Peak Limit 74 dBμV/m	Peak Difference -21.46 dB	Peak Status Pass	Polarization Vertical
Frequency 2.3563 GHz	Average 47.41 dBμV/m	Average Limit 54 dBμV/m	Average Difference -6.59 dB	Average Status Pass	Polarization Vertical

Test Report No.: G0M-2106-9857-TFC247BL-V02

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

Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; 2402 MHz, data length 37 Byte
 Test Date: 2021-09-15
 Note:

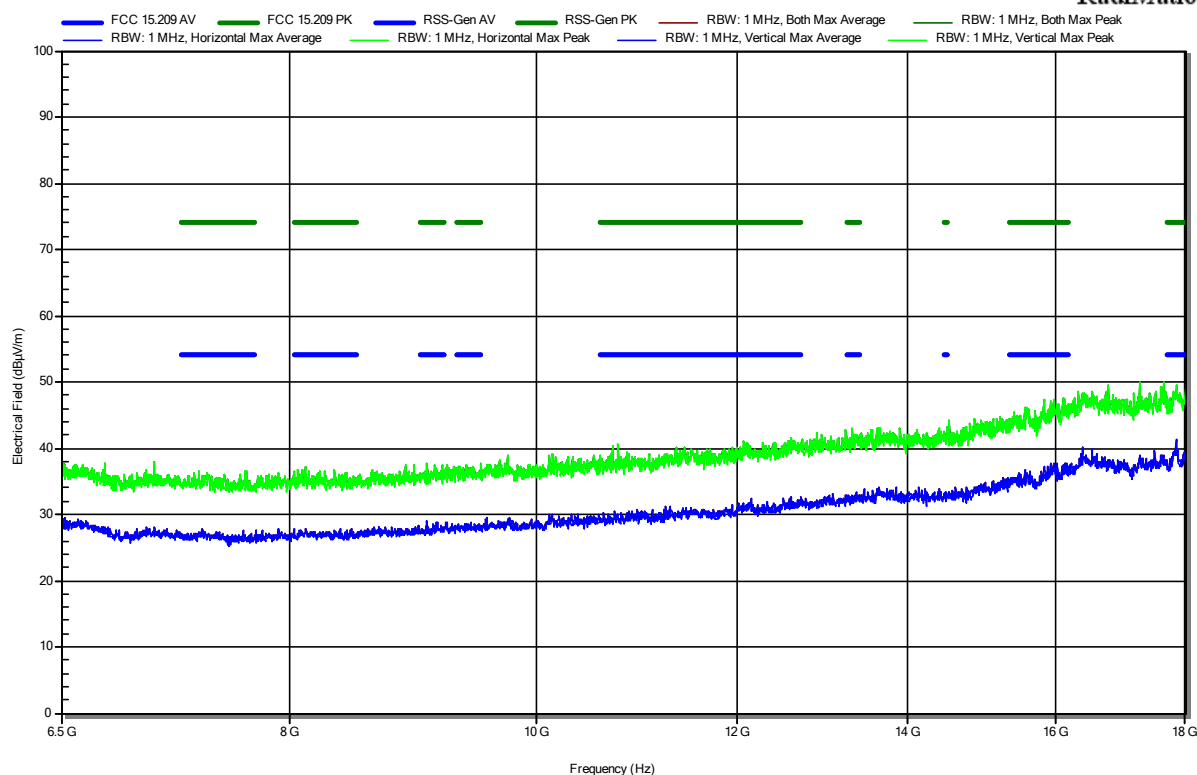


Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Schwarzbeck Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; 2402 MHz, data length 37 Byte
 Test Date: 2021-09-16
 Note:

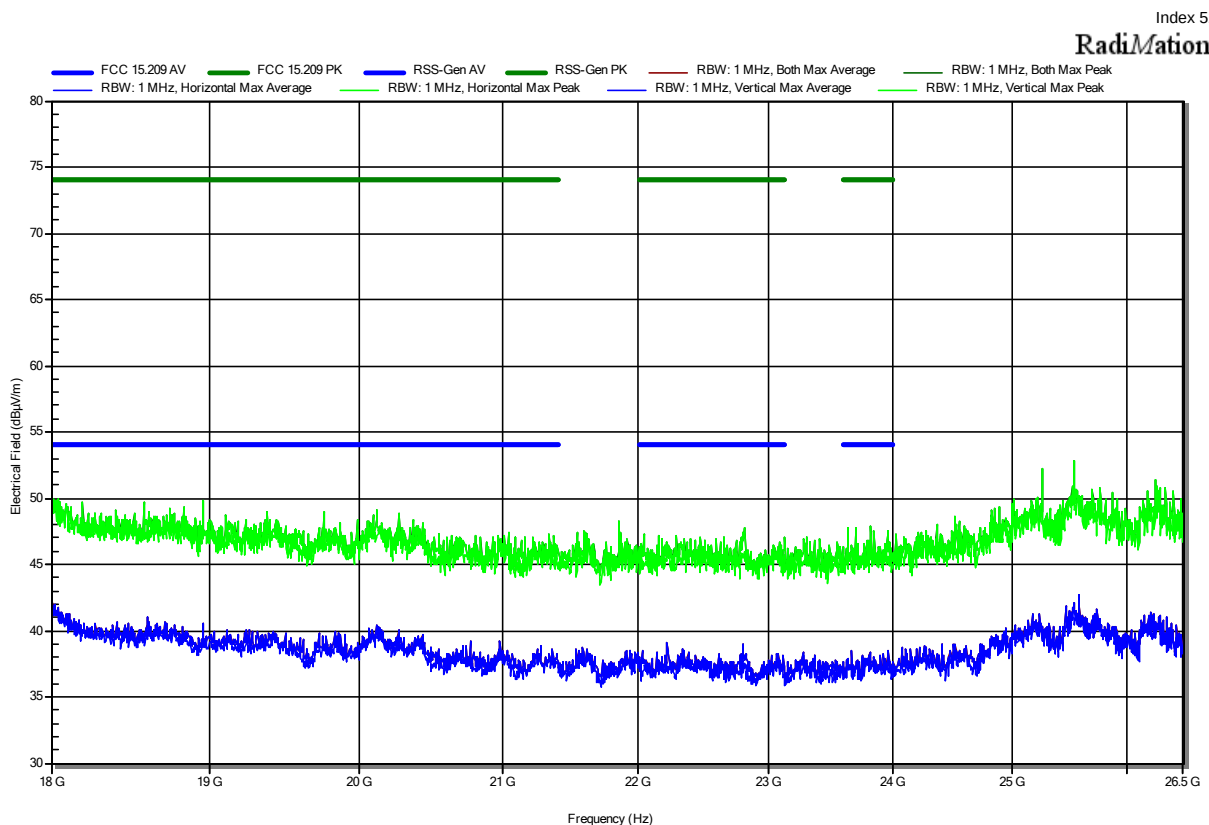
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RadiMation



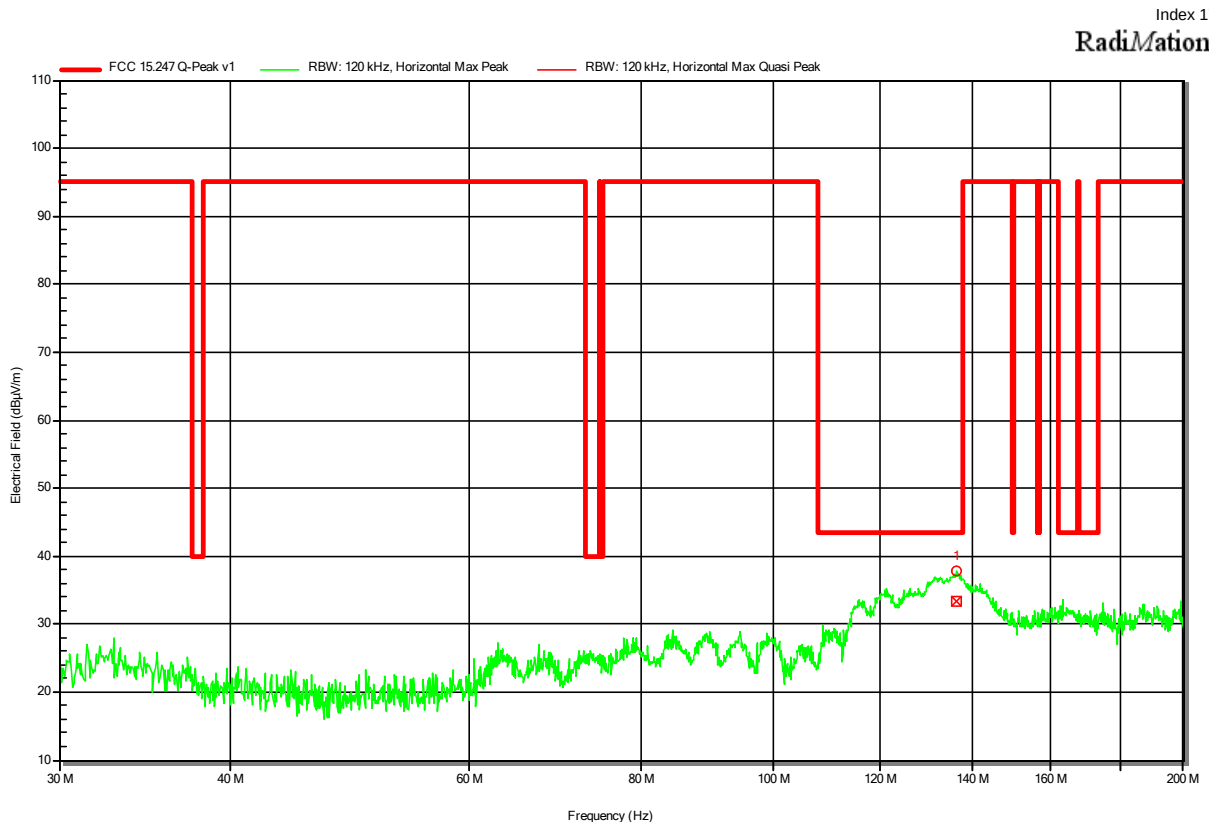
Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Configurable Antenna
 Measurement distance: 3 m
 Mode: Tx; 2402 MHz, data length 37 Byte
 Test Date: 2021-09-16
 Note:



Radiated Spurious Emissions according to 47 CFR § 15.247

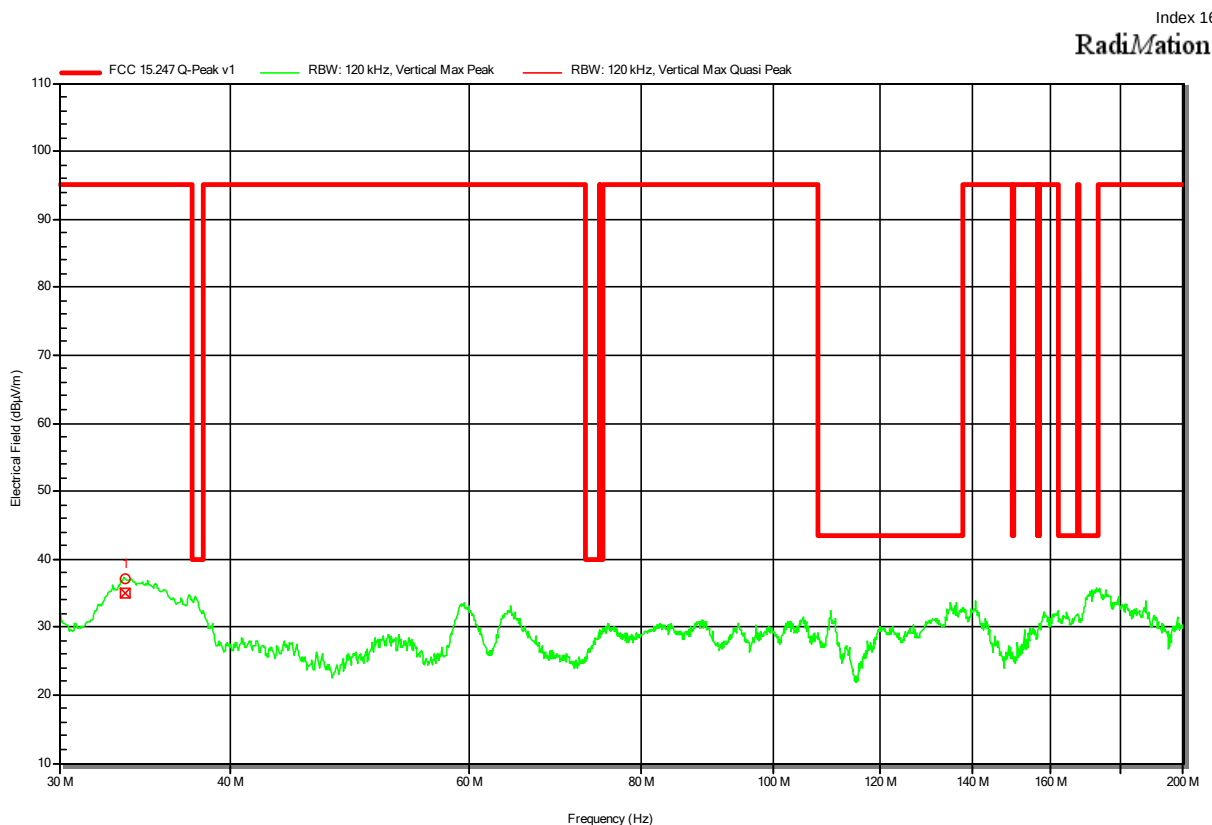
Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; 2440 MHz, data length 37 Byte
 Test Date: 2021-09-01
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
136.48 MHz	37.82 dBμV/m	42.52 dBμV/m	- 4.7	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; 2440 MHz, data length 37 Byte
 Test Date: 2021-09-01
 Note:



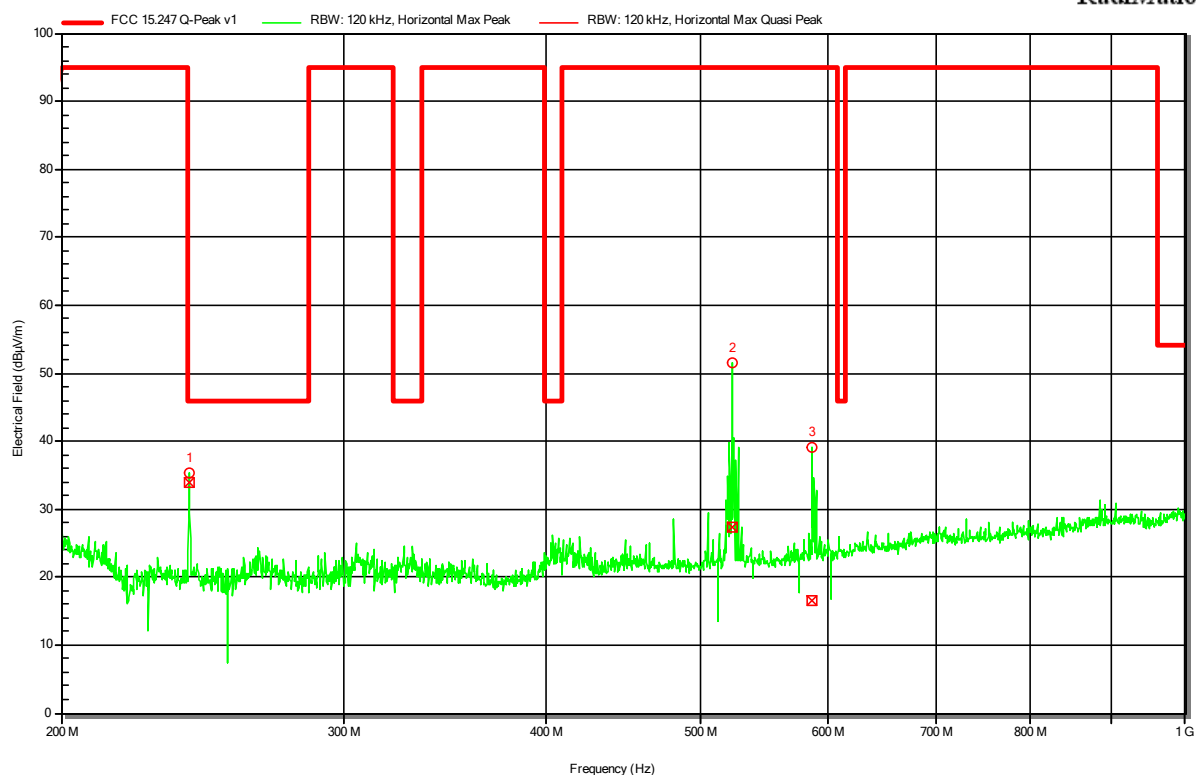
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
33.501 MHz	37.05 dBμV/m	95.0 dBμV/m	- 57.95	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; 2440 MHz, data length 37 Byte
 Test Date: 2021-08-30
 Note:

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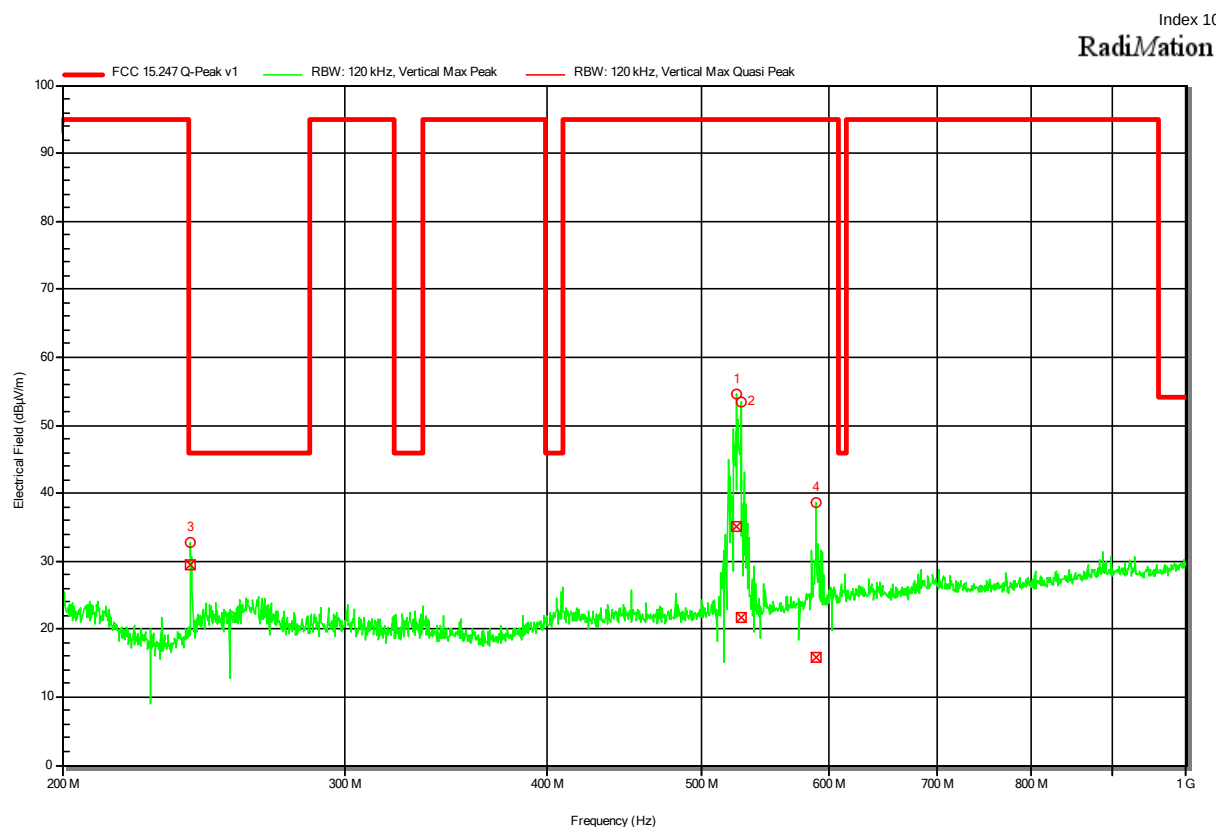
RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
240.237 MHz	35.27 dBμV/m	95 dBμV/m	-59.73 dBμV/m	Pass	Horizontal
523.245 MHz	51.45 dBμV/m	95 dBμV/m	-43.55 dBμV/m	Pass	Horizontal
240.237 MHz	35.27 dBμV/m	46 dBμV/m	-10.73 dBμV/m	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR § 15.247

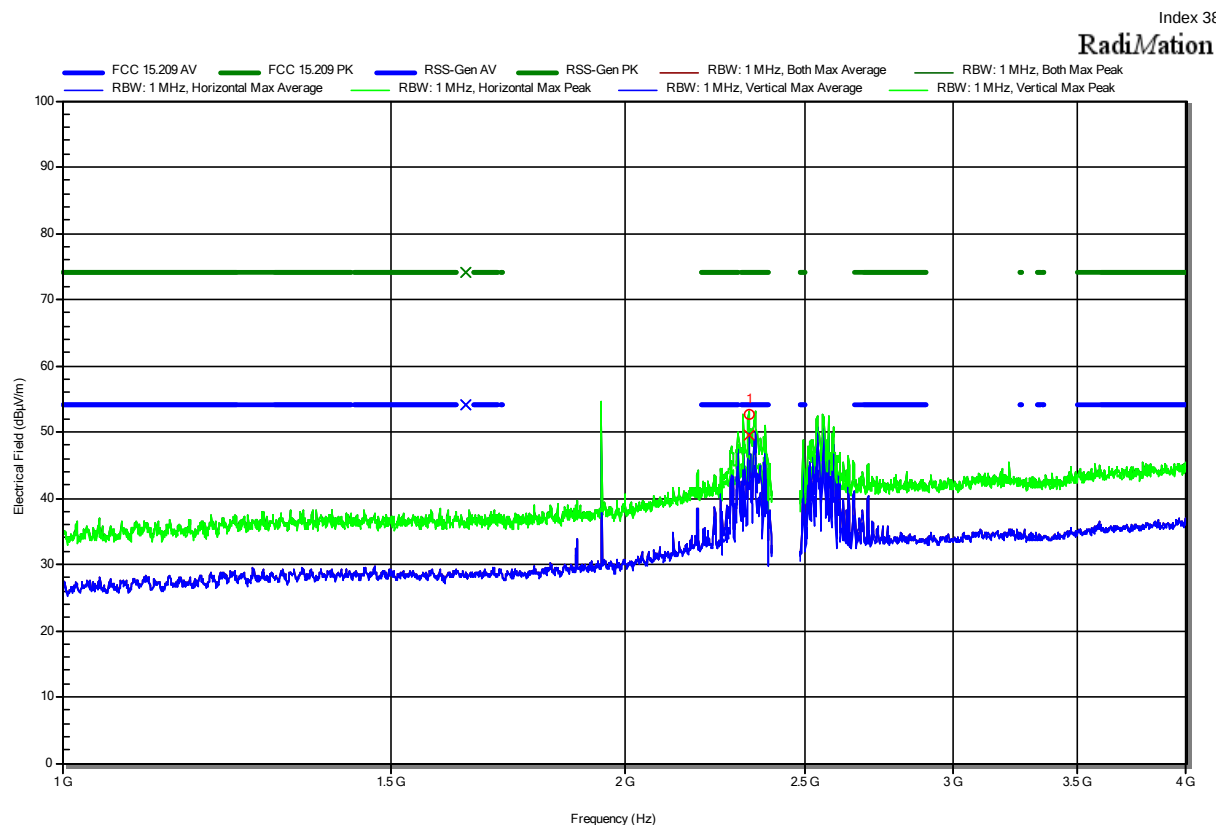
Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; 2440 MHz, data length 37 Byte
 Test Date: 2021-09-01
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
240.505 MHz	32.79 dBµV/m	46 dBµV/m	-13.21 dBµV/m	Pass	Vertical
525.683 MHz	54.66 dBµV/m	95 dBµV/m	-40.34 dBµV/m	Pass	Vertical
528.46 MHz	53.33 dBµV/m	95 dBµV/m	-41.67 dBµV/m	Pass	Vertical
588.203 MHz	38.55 dBµV/m	95 dBµV/m	-56.45 dBµV/m	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR § 15.247

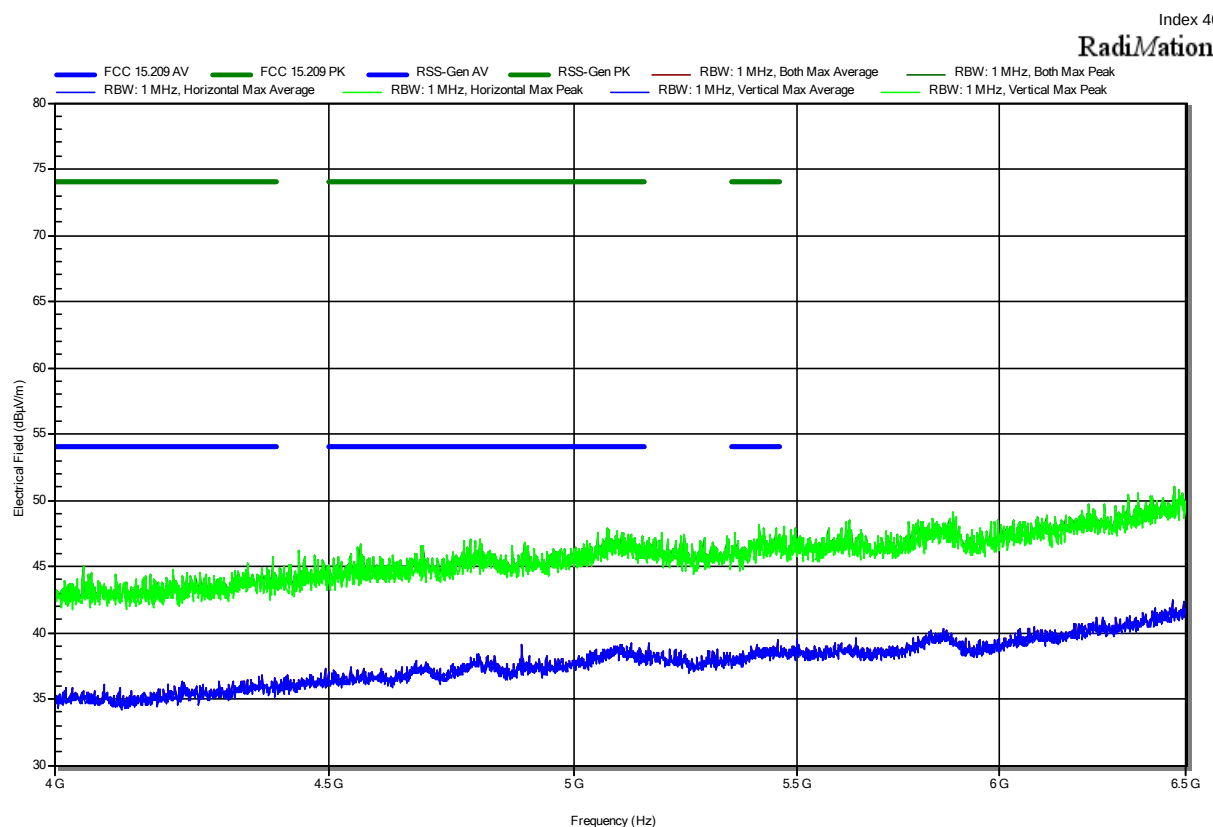
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 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; 2440 MHz, data length 37 Byte
 Test Date: 2021-09-15
 Note:



Frequency 2.3322 GHz	Peak 52.67 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -21.33 dB	Peak Status Pass	Polarization Vertical
Frequency 2.3322 GHz	Average 49.57 dBµV/m	Average Limit 54 dBµV/m	Average Difference -4.43 dB	Average Status Pass	Polarization Vertical

Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; 2440 MHz, data length 37 Byte
 Test Date: 2021-09-15
 Note:

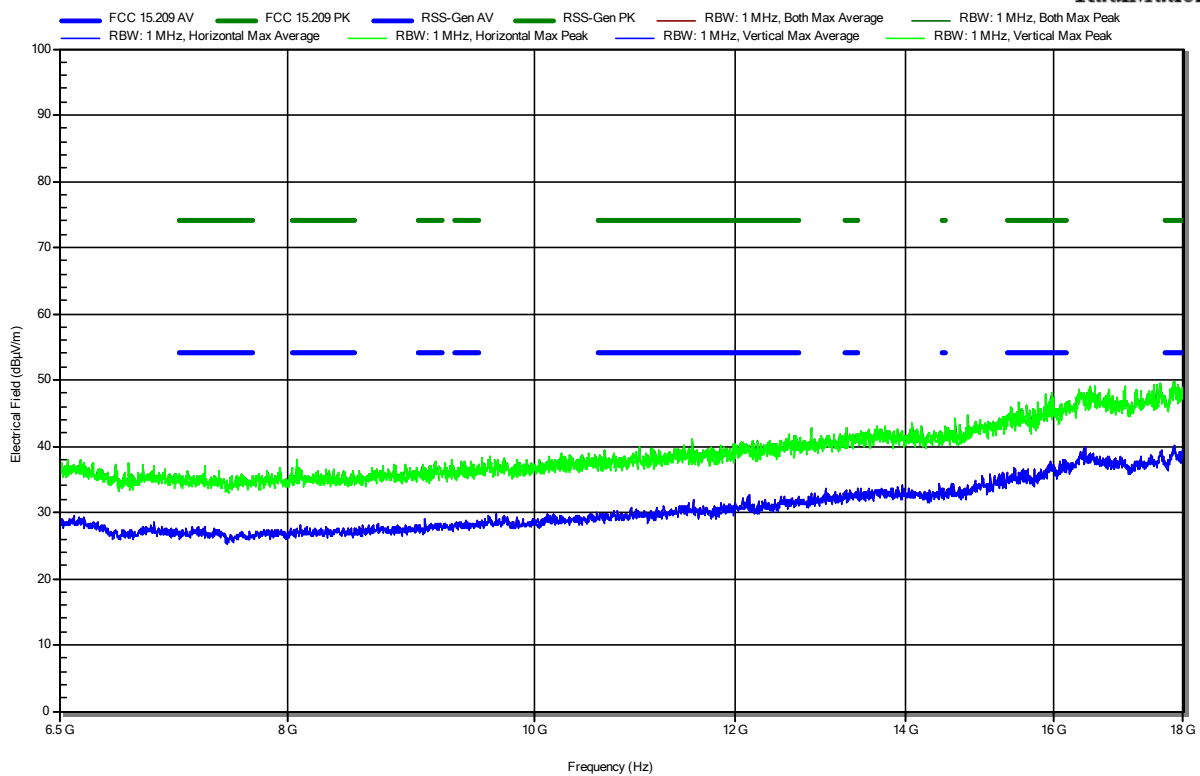


Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Schwarzbeck Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; 2440 MHz, data length 37 Byte
 Test Date: 2021-09-16
 Note:

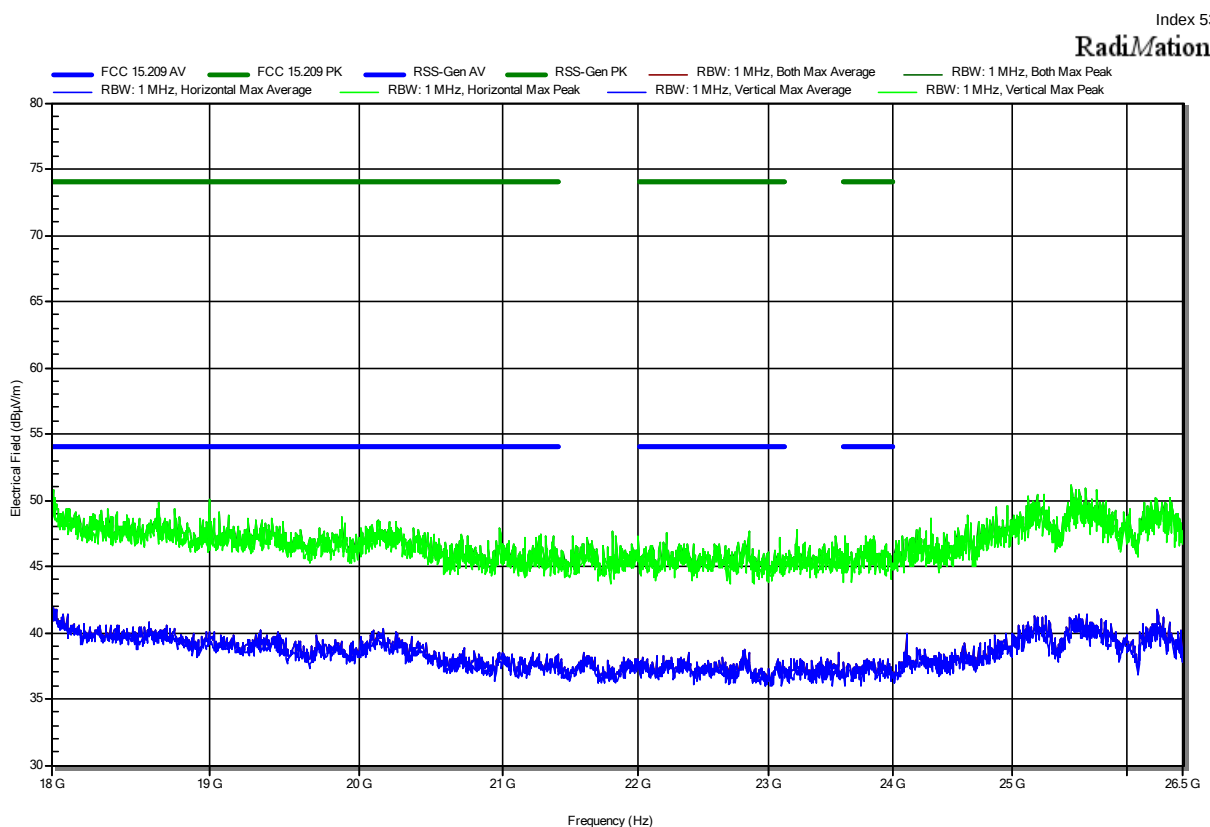
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RadiMation



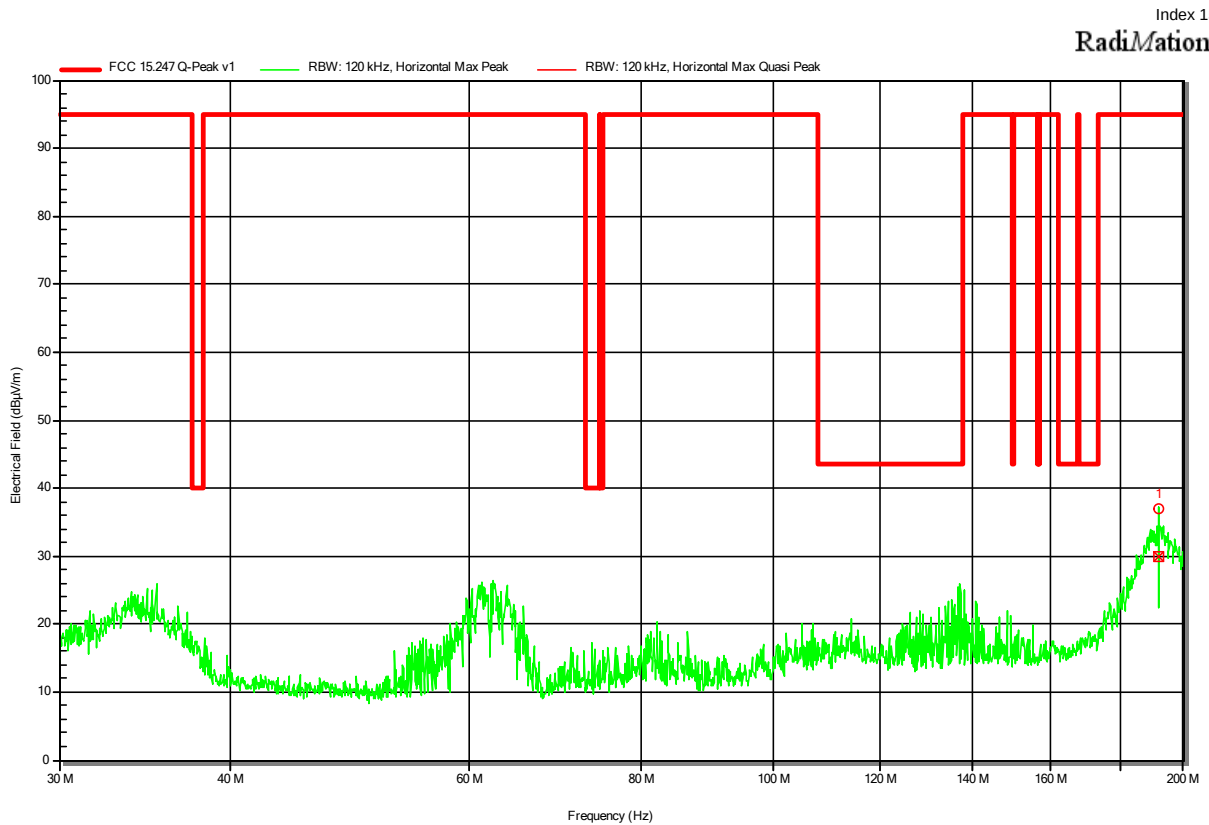
Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Configurable Antenna
 Measurement distance: 3 m
 Mode: Tx; 2440 MHz, data length 37 Byte
 Test Date: 2021-09-16
 Note:



Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; 2480 MHz, data length 37 Byte
 Test Date: 2021-09-01
 Note:



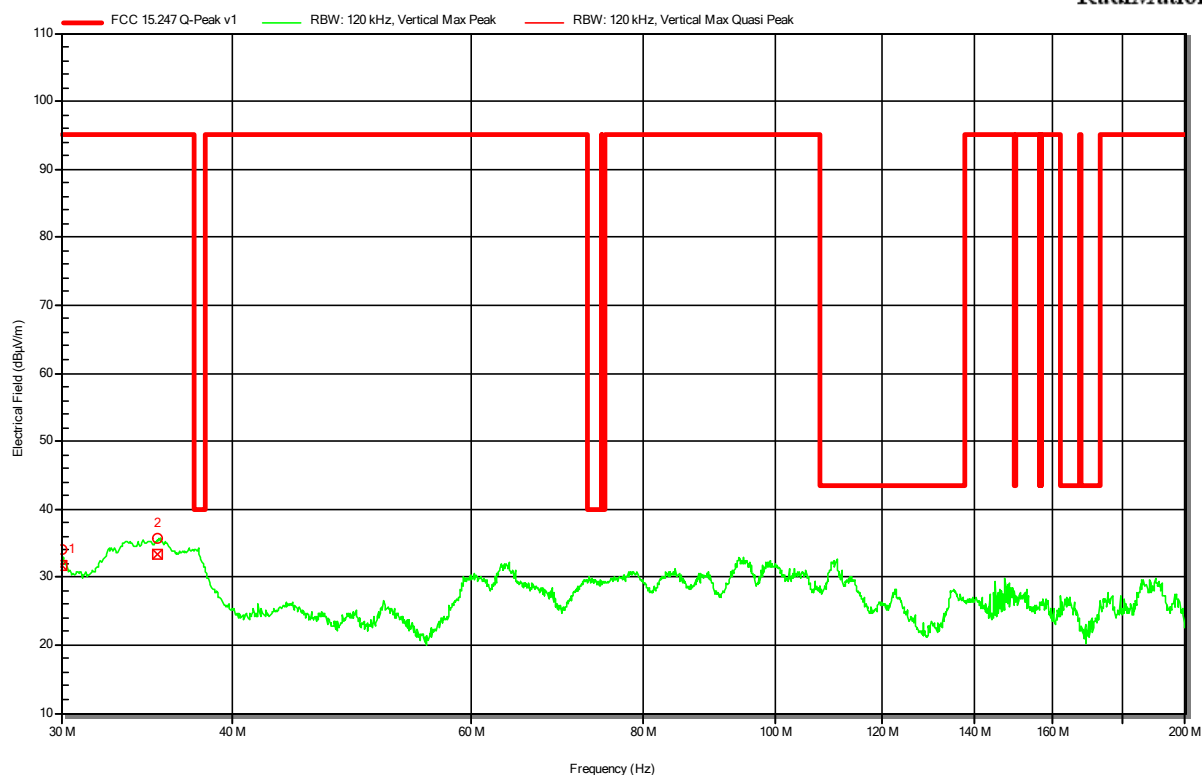
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
191.866 MHz	37 dBμV/m	95 dBμV/m	-58.0 dBμV/m	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: Tx; 2480 MHz, data length 37 Byte
 Test Date: 2021-09-01
 Note:

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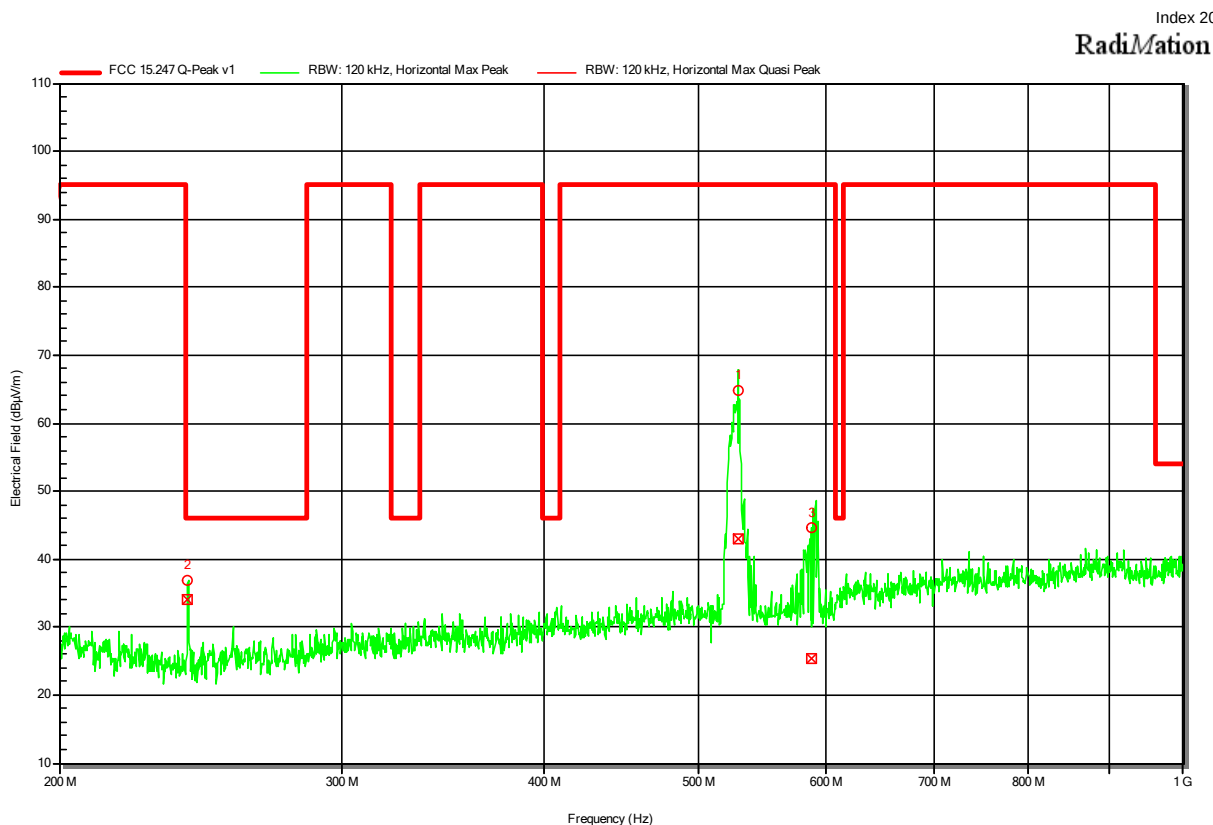
RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
30 MHz	34.1 dBμV/m	95 dBμV/m	-60.9 dBμV/m	Pass	Vertical
35.332 MHz	35.73 dBμV/m	95 dBμV/m	-59.66 dBμV/m	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR § 15.247

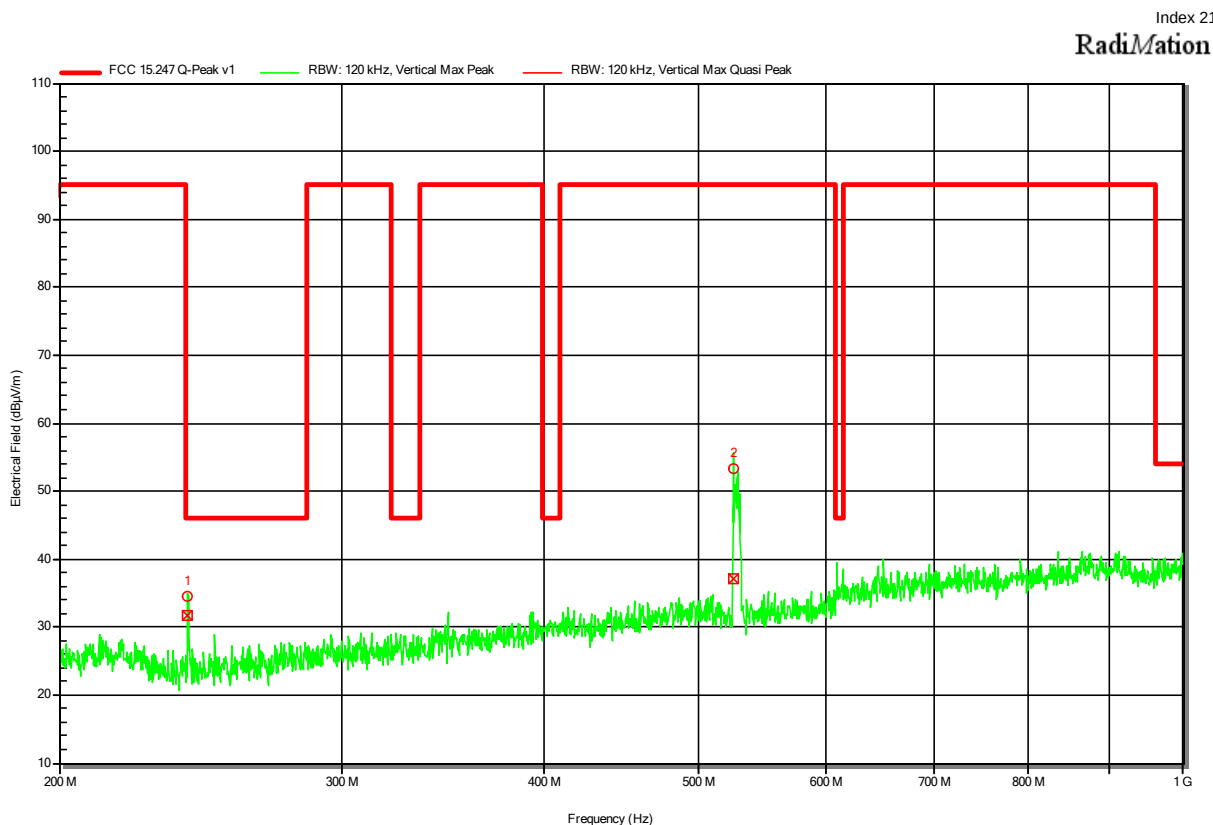
Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; 2480 MHz, data length 37 Byte
 Test Date: 2021-09-01
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
528.474 MHz	64.91 dBμV/m	95 dBμV/m	-30.09 dBμV/m	Pass	Horizontal
587.252 MHz	44.72 dBμV/m	95 dBμV/m	-50.28 dBμV/m	Pass	Horizontal
240.552 MHz	36.93 dBμV/m	46 dBμV/m	-9.07 dBμV/m	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Tx; 2480 MHz, data length 37 Byte
 Test Date: 2021-09-01
 Note:



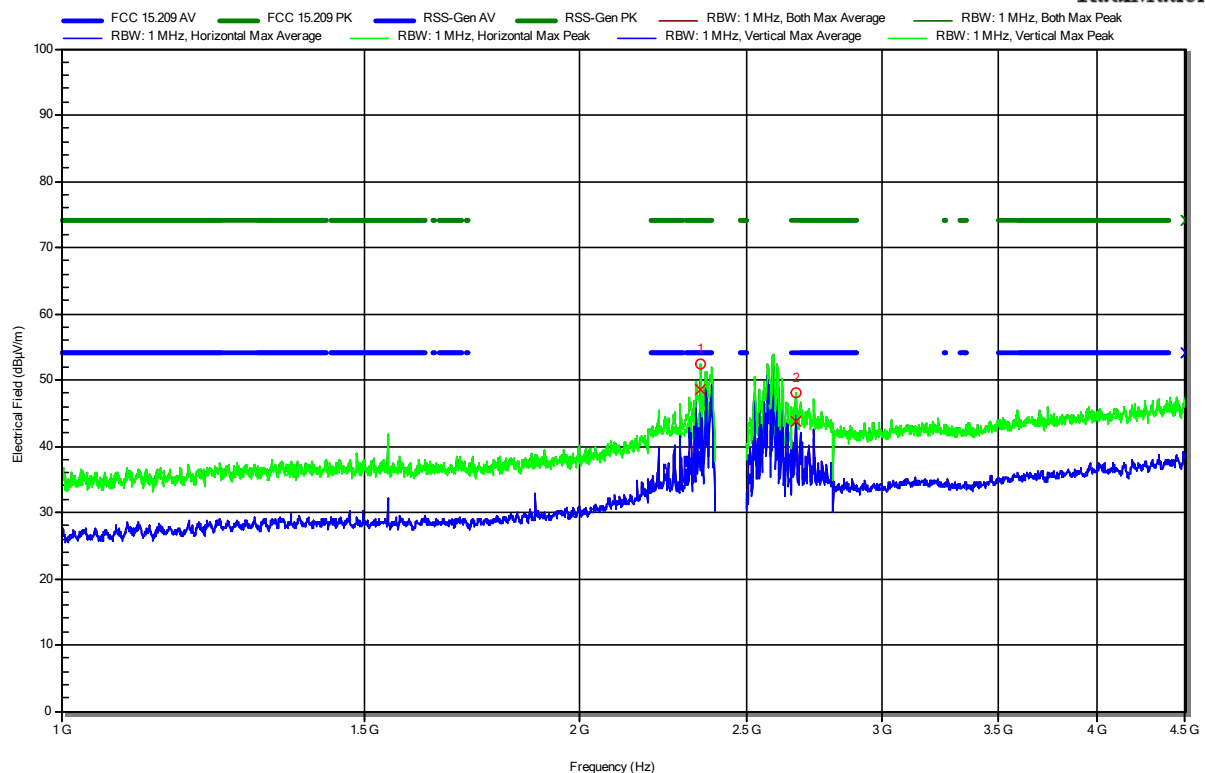
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
524.765 MHz	53.28 dBμV/m	95 dBμV/m	-41.72 dBμV/m	Pass	Vertical
240.51 MHz	34.64 dBμV/m	46 dBμV/m	-11.36 dBμV/m	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; 2480 MHz, data length 37 Byte
 Test Date: 2021-09-15
 Note:

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RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.352 GHz	52.36 dBμV/m	74 dBμV/m	-21.64 dB	Pass	Vertical
2.672 GHz	48.13 dBμV/m	74 dBμV/m	-25.87 dB	Pass	Vertical

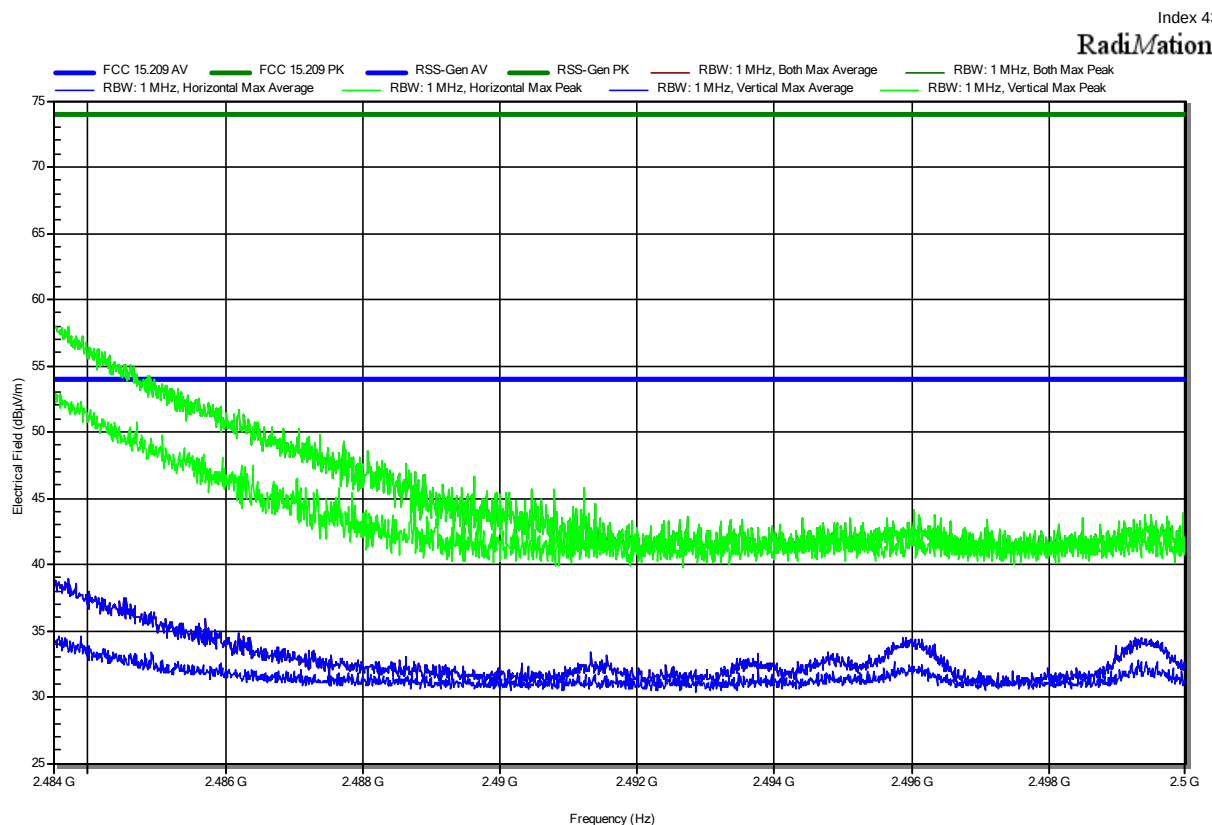
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.352 GHz	48.56 dBμV/m	54 dBμV/m	-5.44 dB	Pass	Vertical
2.672 GHz	43.79 dBμV/m	54 dBμV/m	-10.21 dB	Pass	Vertical

Test Report No.: G0M-2106-9857-TFC247BL-V02

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

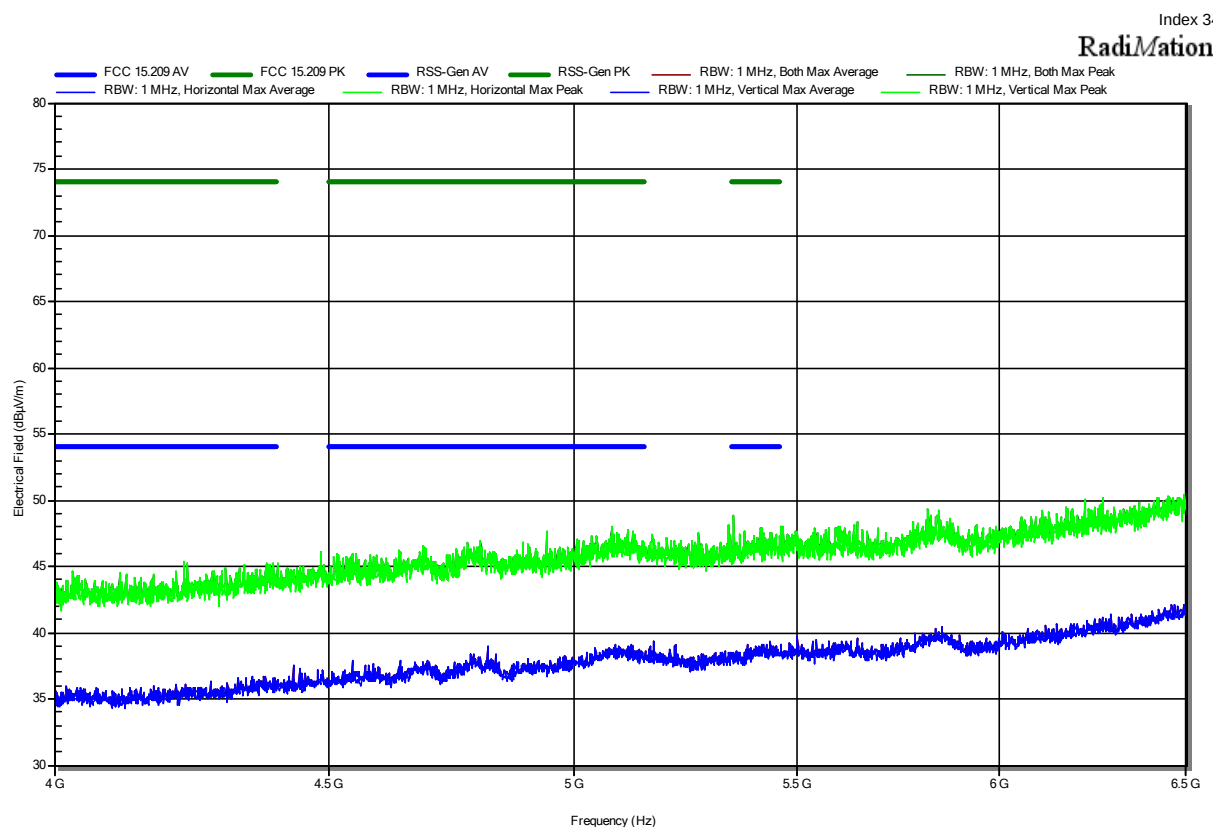
Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; 2480 MHz, data length 37 Byte
 Test Date: 2021-09-15
 Note:



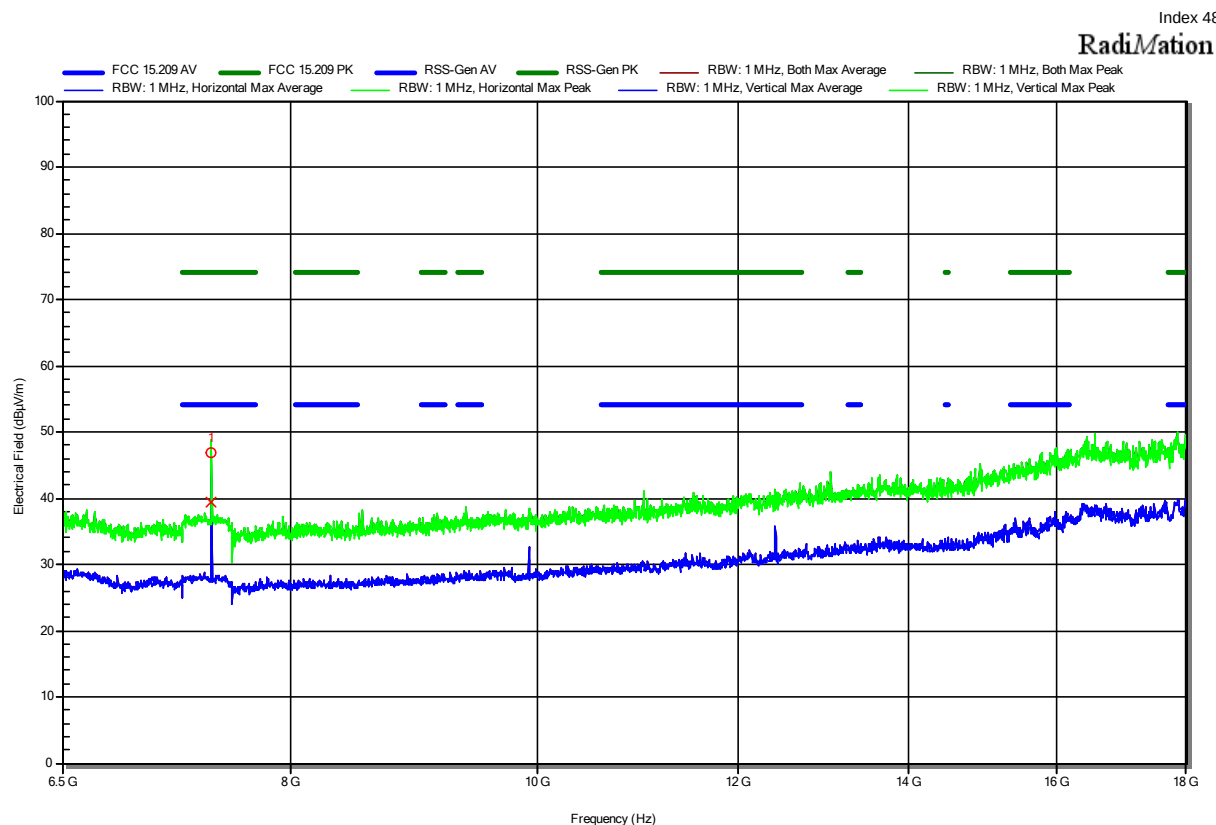
Radiated Spurious Emissions according to 47 CFR § 15.247

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; 2480 MHz, data length 37 Byte
 Test Date: 2021-09-15
 Note:



Radiated Spurious Emissions according to 47 CFR § 15.247

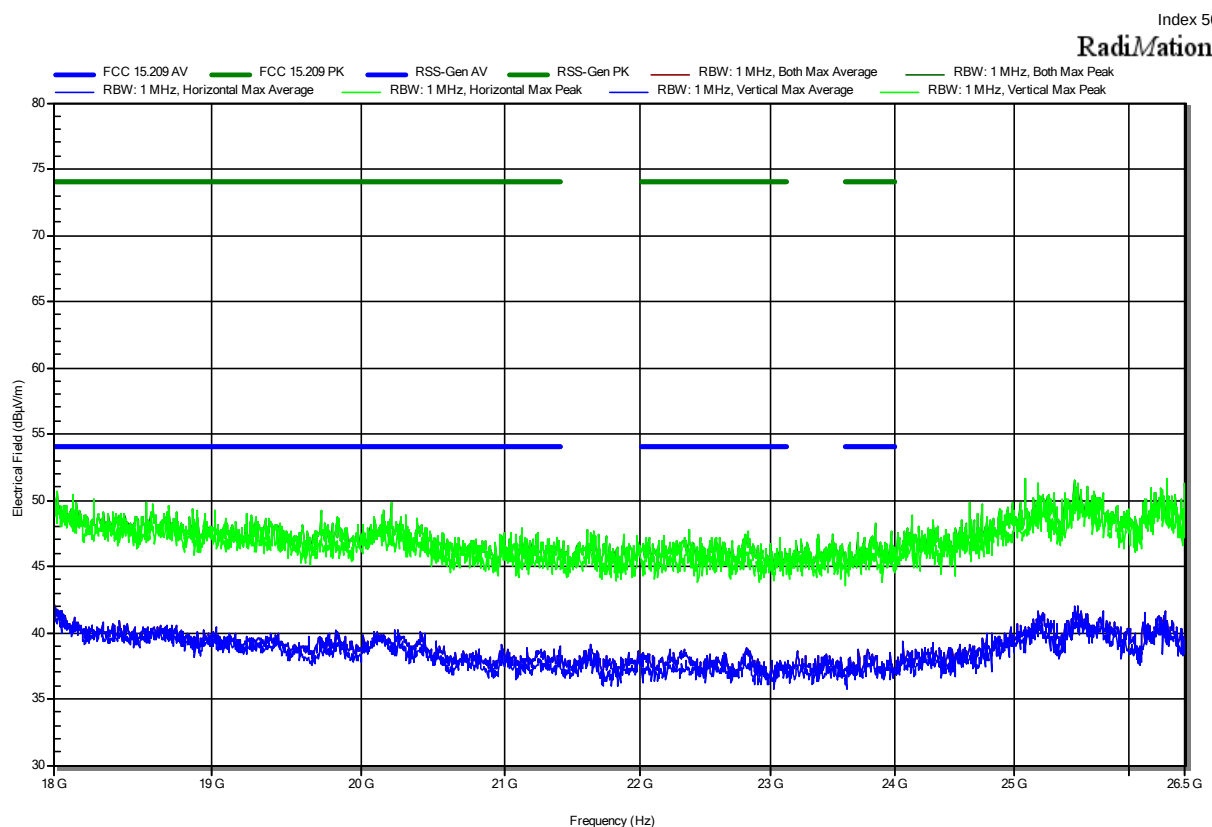
Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Schwarzbeck Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; 2480 MHz, data length 37 Byte
 Test Date: 2021-09-16
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
7.44 GHz	46.79 dBµV/m	74 dBµV/m	-27.21 dB	Pass	Horizontal
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
7.44 GHz	39.36 dBµV/m	54 dBµV/m	-14.64 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR § 15.247

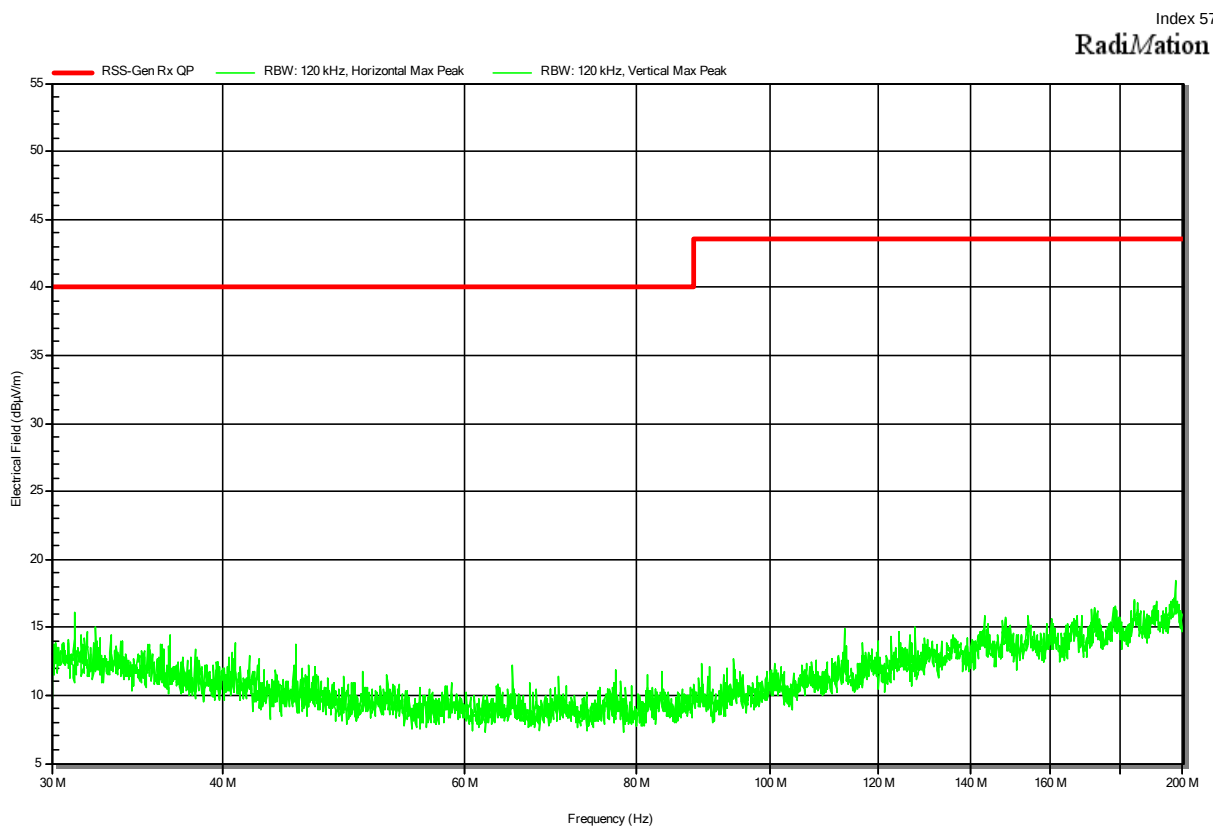
Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Configurable Antenna
 Measurement distance: 3 m
 Mode: Tx; 2480 MHz, data length 37 Byte
 Test Date: 2021-09-16
 Note:



ANNEX B Receiver spurious emissions

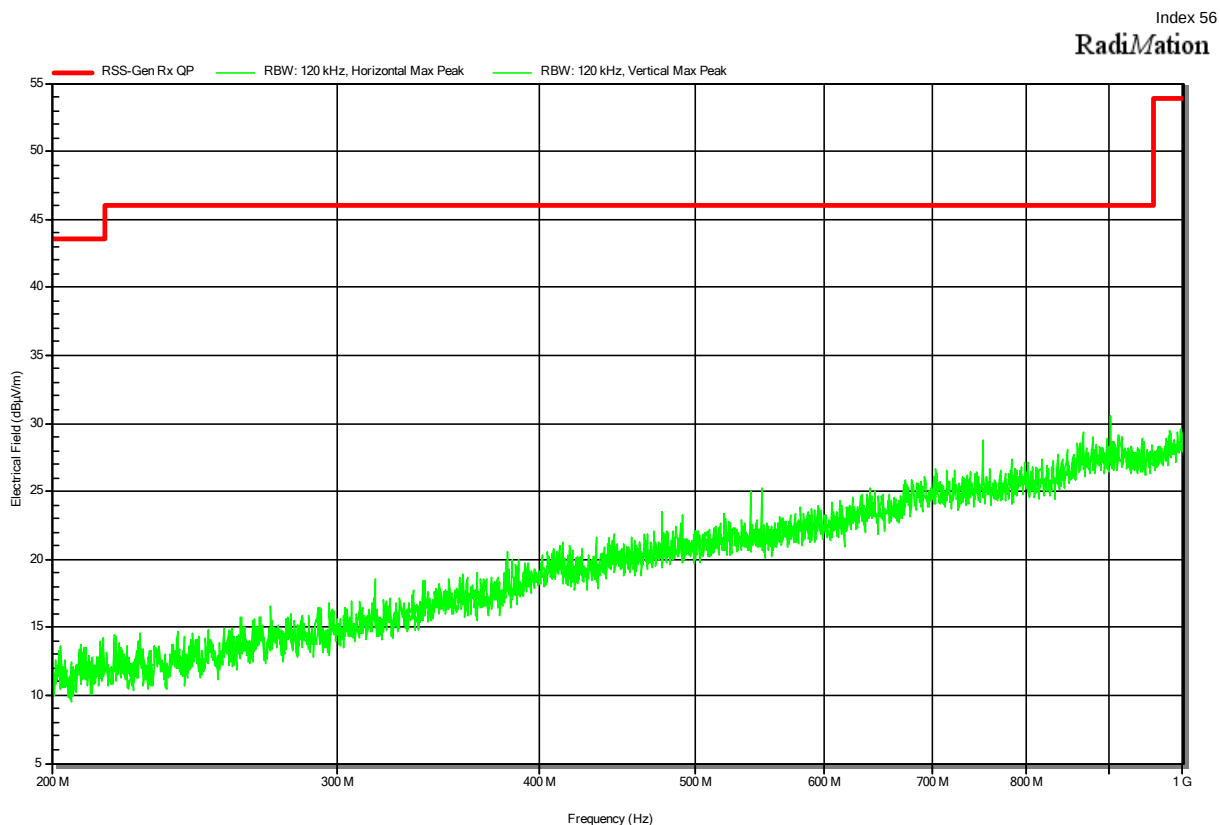
Radiated Spurious Emissions according to RSS-Gen Issue 5

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Rohde & Schwarz HK 116
 Measurement distance: 3 m
 Mode: RX; receive
 Test Date: 2021-09-16
 Note:



Radiated Spurious Emissions according to RSS-Gen Issue 5

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Rohde & Schwarz HL 223
 Measurement distance: 3 m
 Mode: Rx; receive
 Test Date: 2021-09-16
 Note:

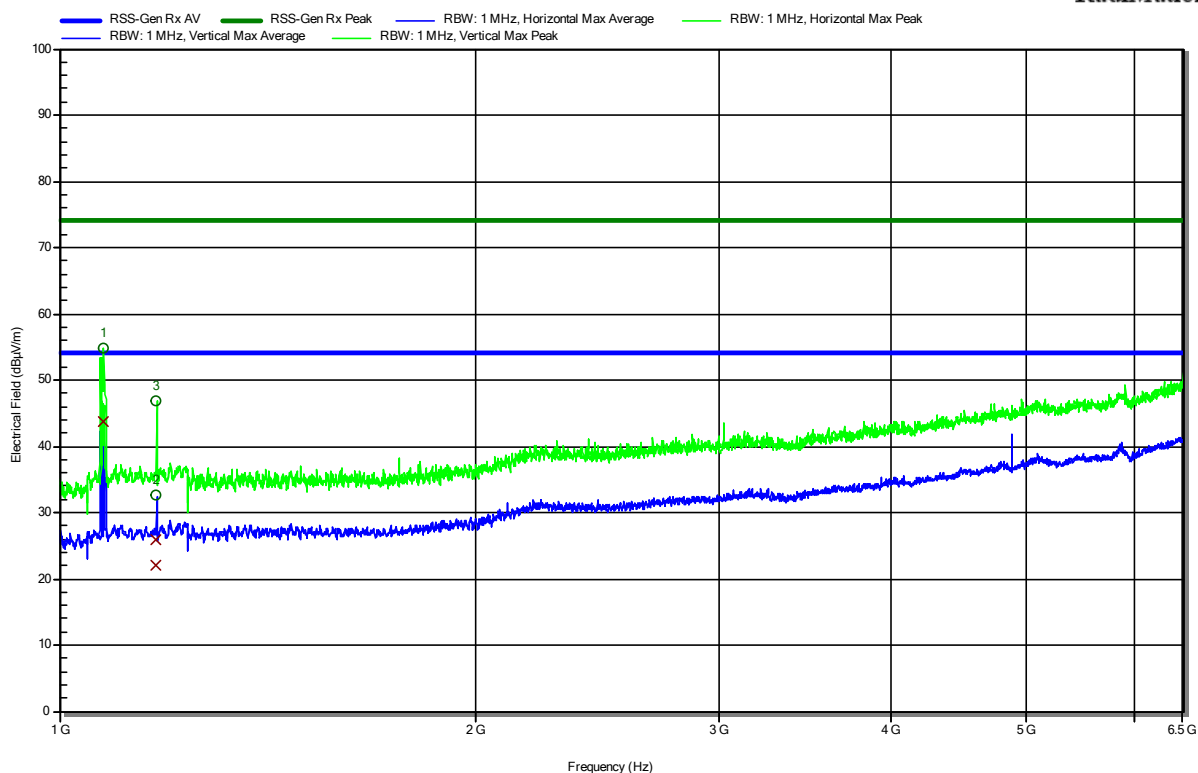


Radiated Spurious Emissions according to RSS-Gen Issue 5

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Rx; receive
 Test Date: 2021-09-16
 Note:

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.076 GHz	54.88 dBμV/m	74.00 dBμV/m	-19.12 dB	Pass	Horizontal
1.175 GHz	46.77 dBμV/m	74.00 dBμV/m	-27.23 dB	Pass	Horizontal
1.175 GHz	32.59 dBμV/m	74.00 dBμV/m	-41.41 dB	Pass	Vertical

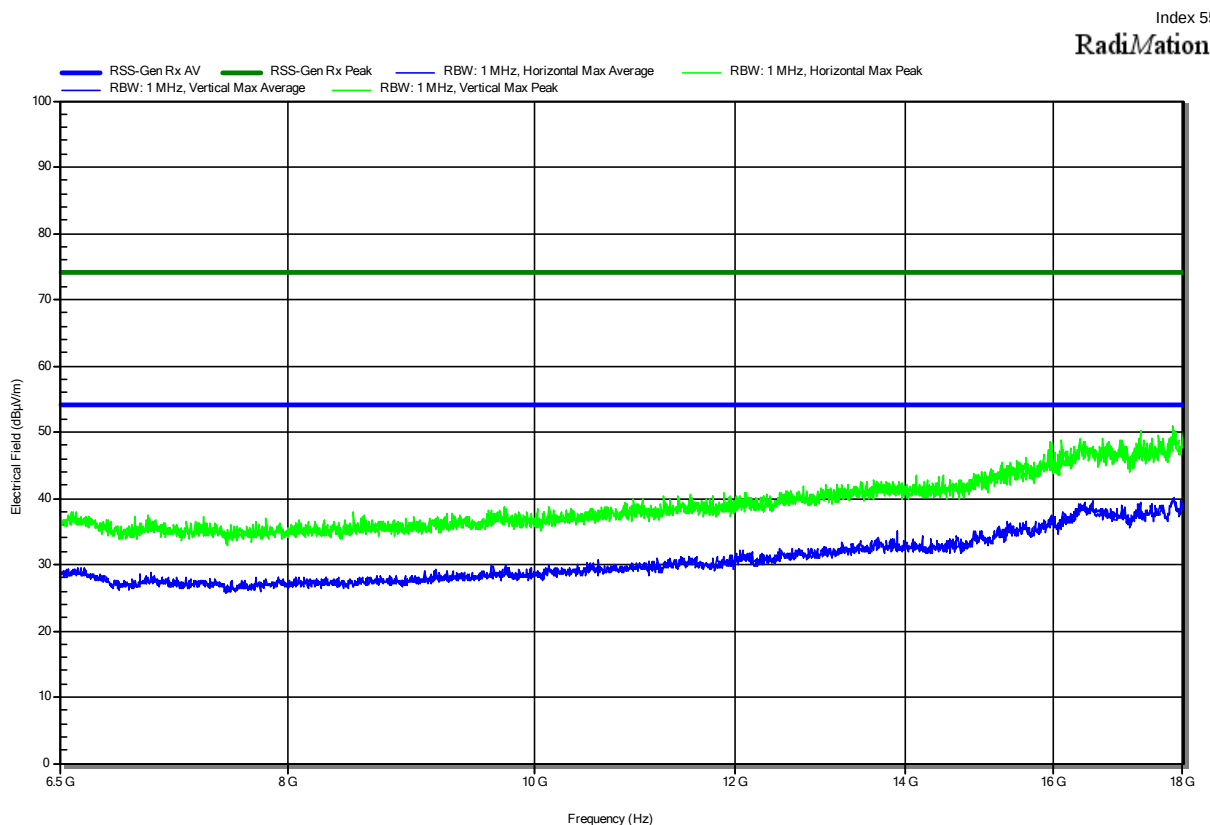
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
1.076 GHz	43.69 dBμV/m	53.98 dBμV/m	-10.29 dB	Pass	Horizontal
1.175 GHz	22.14 dBμV/m	53.98 dBμV/m	-31.84 dB	Pass	Horizontal
1.175 GHz	25.89 dBμV/m	53.98 dBμV/m	-28.09 dB	Pass	Vertical

Test Report No.: G0M-2106-9857-TFC247BL-V02

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

Radiated Spurious Emissions according to RSS-Gen Issue 5

Project Number: G0M-2106-9857
 Applicant: ANDREAS STIHL AG & Co. KG
 Model Description: AR 3000 L
 Model: battery pack 4871 AR-C
 Test Sample ID: 35702
 Test Site: Eurofins Product Service GmbH
 Operator: Ms. Graf
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 22 °Celsius, Vnom:
 Antenna: Schwarzbeck Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Rx; receive
 Test Date: 2021-09-16
 Note:



== = END OF TEST REPORT == =

Test Report No.: G0M-2106-9857-TFC247BL-V02

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