

ANDREAS STIHL AG & Co. KG

SAR COMPLIANCE REPORT

Report Type:
FCC SAR assessment report

Model:
RE 100.0 PLUS CONTROL

REPORT NUMBER:
220601928SHA-002

ISSUE DATE:
October 8, 2022

DOCUMENT CONTROL NUMBER:
TTRFFCCSAR-01_V1 © 2022 Intertek



Applicant: ANDREAS STIHL AG & Co. KG
Badstrasse 115, 71336 Waiblingen. Germany

Manufacturer: Kindclean Electric Green Technology (Suzhou) Co., Ltd.
Suzhou, Jiangsu | 215009

Factory: Kindclean Electric Green Technology (Suzhou) Co., Ltd.
Suzhou, Jiangsu | 215009

PRODUCT NAME: Pressure washer

TYPE/MODEL: RE 100.0 PLUS CONTROL

FCC ID: 2ALP8RE02A

SUMMARY:

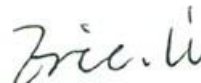
The equipment complies with the requirements according to the following standard(s) or Specification:
KDB447498 D01 General RF Exposure Guidance v07
FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:

REVIEWED BY:



Scout Gong
Project Engineer



Eric Li
Reviewer

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Revision History

Report No.	Version	Description	Issued Date
220601928SHA-002	Rev. 01	Initial issue of report	October 8, 2022

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Pressure washer
Type/Model:	RE 100.0 PLUS CONTROL
Description of EUT:	The EUT is a pressure washer which equipped with 2428 MHz module, intended for domestic cleaning.
Rating:	High pressure washer: 120V AC, 13A, 60Hz, 1.5KW Remote module: 3V DC
EUT type:	<input type="checkbox"/> Table top <input checked="" type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample Identification No.:	0220808-23-001
Sample received date:	August 08, 2022
Date of test:	August 09, 2022~September 28, 2022

1.2 Technical Specification

Operation Frequency:	2400MHz ~ 2483.5MHz
Support Standards:	SRD
Type of Modulation:	GFSK
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Channel Number:	1
Antenna Designation:	Integral PCB antenna
Gain of Antenna:	2.02dBi max

1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road (North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 SAR Assessment

Test result: Pass

2.1 SAR Test Exclusion Limit

This method shall only be used at separation distances up to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula below:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula above.

The example values shown in below are for illustration only.

Frequency (MHz)	Distance (mm)										
	5	10	15	20	25	30	35	40	45	50	
300	39	65	88	110	129	148	166	184	201	217	
450	22	44	67	89	112	135	158	180	203	226	
835	9	25	44	66	90	116	145	175	207	240	
1900	3	12	26	44	66	92	122	157	195	236	
2450	3	10	22	38	59	83	111	143	179	219	
3600	2	8	18	32	49	71	96	125	158	195	
5800	1	6	14	25	40	58	80	106	136	169	

2.2 Assessment Results

The highest EIRP adjusted with tune-up tolerance is 50.30-95.30 = -45.00dBm = 0.00003mW < 3mW (Test Exclusion Thresholds of 2450MHz at 5mm). Therefore, the SAR requirement is deemed to be satisfied without test.

***** END *****