

Human Exposure Report

FCC ID: 2ANR7-TPMS6

Report No. : BTL-FCCP-5-2502T052
Equipment : Tire-pressure monitoring system
Model Name : TPMS6
Brand Name : Snap-on
Applicant : ATEQ INSTRUMENTS (ASIA) PTE LTD.TAIWAN BRANCH
(SINGAPORE)
Address : NO.3, LANE 223, SAN JIA DONG STREET, 40642, TAICHUNG, TAIWAN
Standard(s) : 47 CFR § 1.1310
Date of Receipt : 2025/2/13
Date of Test : 2025/4/2
Issued Date : 2025/5/26

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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**BTL Inc.**

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the Customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-5-2502T052	R00	Original Report.	2025/4/29	Invalid
BTL-FCCP-5-2502T052	R01	Revised report to address TCB's comments.	2025/5/13	Invalid
BTL-FCCP-5-2502T052	R02	Revised report to address TCB's comments.	2025/5/26	Valid

1 GENERAL INFORMATION

1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.

The test location(s) used to collect the test data in this report are:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

☒ SAR01 ☐ SAR02

1.2 REFERENCE TEST GUIDANCE

KDB447498 D01 General RF Exposure Guidance v06

2 TEST RESULTS

2.1 LIMITS

For 47 CFR PART 1, Subpart I, Section 1.1310:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational / Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100000	/	/	5	6
(B) Limits for General Population / Uncontrolled Exposures				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules.

The emissions should be within the limits at 300kHz in Table 1 of 1.1310 (use the 300kHz limits for 150kHz: 614V/m, 1.63A/m).

2.2 MEASUREMENT DATA

Electric Field Emissions:

Test Position(0 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	6.22	614
Back	1.68	614
Left	6.23	614
Right	1.60	614
Top	6.78	614
Bottom	7.58	614

Test Position(2 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	4.37	614
Back	1.21	614
Left	5.10	614
Right	1.42	614
Top	5.20	614
Bottom	6.66	614

Test Position(4 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	3.05	614
Back	0.85	614
Left	3.96	614
Right	1.21	614
Top	3.98	614
Bottom	5.48	614

Test Position(6 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	2.21	614
Back	0.62	614
Left	2.83	614
Right	0.87	614
Top	2.13	614
Bottom	3.51	614

Test Position(8 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	1.52	614
Back	0.51	614
Left	1.69	614
Right	0.64	614
Top	1.21	614
Bottom	1.87	614

Test Position(10 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	0.55	614
Back	0.42	614
Left	0.56	614
Right	0.53	614
Top	0.53	614
Bottom	0.43	614

Test Position(12 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	0.52	614
Back	0.41	614
Left	0.51	614
Right	0.52	614
Top	0.50	614
Bottom	0.38	614

Test Position(14 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	0.48	614
Back	0.40	614
Left	0.46	614
Right	0.49	614
Top	0.45	614
Bottom	0.37	614

Test Position(15 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	0.41	614
Back	0.40	614
Left	0.41	614
Right	0.47	614
Top	0.41	614
Bottom	0.36	614

Test Position(20 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	0.37	614
Back	0.38	614
Left	0.37	614
Right	0.34	614
Top	0.36	614
Bottom	0.35	614

Note:The maximum Probe Measure Results of this EUT is 7.58 V/m, less than 307 V/m($614 \times 50\%$).

Magnetic Field Emissions:

Test Position(0 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.015	1.63
Back	0.004	1.63
Left	0.017	1.63
Right	0.004	1.63
Top	0.018	1.63
Bottom	0.021	1.63

Test Position(2 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.013	1.63
Back	0.004	1.63
Left	0.014	1.63
Right	0.004	1.63
Top	0.015	1.63
Bottom	0.017	1.63

Test Position(4 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.010	1.63
Back	0.003	1.63
Left	0.011	1.63
Right	0.004	1.63
Top	0.011	1.63
Bottom	0.014	1.63

Test Position(6 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.008	1.63
Back	0.003	1.63
Left	0.008	1.63
Right	0.004	1.63
Top	0.009	1.63
Bottom	0.009	1.63

Test Position(8 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.005	1.63
Back	0.002	1.63
Left	0.005	1.63
Right	0.003	1.63
Top	0.005	1.63
Bottom	0.004	1.63

Test Position(10 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.001	1.63
Back	0.001	1.63
Left	0.002	1.63
Right	0.002	1.63
Top	0.001	1.63
Bottom	0.001	1.63

Test Position(12 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.001	1.63
Back	0.001	1.63
Left	0.002	1.63
Right	0.002	1.63
Top	0.001	1.63
Bottom	0.001	1.63

Test Position(14 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.001	1.63
Back	0.001	1.63
Left	0.002	1.63
Right	0.002	1.63
Top	0.001	1.63
Bottom	0.001	1.63

Test Position(15 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.001	1.63
Back	0.001	1.63
Left	0.001	1.63
Right	0.002	1.63
Top	0.001	1.63
Bottom	0.001	1.63

Test Position(20 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.001	1.63
Back	0.001	1.63
Left	0.001	1.63
Right	0.001	1.63
Top	0.001	1.63
Bottom	0.001	1.63

Note: The maximum Probe Measure Results of this EUT is 0.021 A/m, less than 0.815 V/m($1.63 \times 50\%$).

3 LIST OF MEASURING EQUIPMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Readout Unit	Wavecontrol	SMP2	19SN1139	2025/1/20	2026/1/19
2	E-Field Probe	Wavecontrol	WPF8	19WP100578	2025/1/20	2026/1/19

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.