



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251000465802

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Test Report

Application No.: SZCR2510004658AT
Applicant: Traxxas LP
Address of Applicant: 6250 Traxxas Way McKinney, Texas, 75070, USA
Manufacturer: Traxxas LP
Address of Manufacturer: 6250 Traxxas Way McKinney, Texas, 75070, USA
Equipment Under Test (EUT):
EUT Name: TQi Sport TX
Model No.: 6506-2CH, 6506-3CH, 6505 -2CH, 6505-3CH ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: Traxxas
FCC ID: XVE-TRX1030
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2025-02-28(for original report of SZCR250200073402)
Date of Test: 2025-02-28 to 2025-03-03(for original report of SZCR250200073402)
Date of Issue: 2025-03-04(for original report of SZCR250200073402)
2025-12-17(for new report of SZCR251000465802)

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



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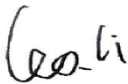
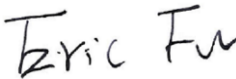
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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-12-17		Original

Authorized for issue by:				
				
		Leo Li/Project Engineer		
				
		Eric Fu/Reviewer		



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4 General Information

4.1 General Description of EUT

Power Supply:	DC6.0V(4 x 1.5V"AA"Batteries)
Operation Frequency:	2406MHz to 2453MHz
Modulation Type:	GFSK
Channel Spacing:	1MHz
Number of Channels:	48
Antenna Gain:	0dBi
Antenna Type:	PCB Antenna

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Remark:

Original model No. in report SZCR250200073402: 6567, 6568

Only the model 6568 was tested in report SZCR250200073402 since the electrical circuit design, layout, components used and internal wiring were identical for the above items, with only difference on model name and below details.

Model No.	6567	6568
Differences	Main – 2 Channels (2 control switches)	Main – 3 Channels (3 control switches)

New model No. in report SZCR2510004655802 6506-2CH, 6506-3CH, 6505 -2CH, 6505-3CH

This report was an additional report copied from the report SZCR250200073402, just changed the information of manufacturer, product name and model No., and added new photos. Since the electrical circuit design, layout, components used and internal wiring for the models in the report SZCR250200073402 were exactly same as the models in this report, only different on appearance and below:



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Model/HVIN		Texas (Instruments chip model)	Software Version	Appearance	Detail description
Original	6567	CC2640F128RHBR	15003		Difference- 6567 VS 6506-2CH: 1) Changing model number from 6567 to 6506-2CH 2) Instruments chip model changed: CC2640F128RHBR and CC2640R2LRHBR are same chip, Just replacing old and new chip models. 3) Software Version changed.
New	6506-2CH	CC2640R2LRHBR	15015		Difference-6567 VS 6505-2CH: 1) Changing model number from 6567 to 6506-2CH 2) Instruments chip model changed: CC2640F128RHBR and CC2640R2LRHBR are same chip, Just replacing old and new chip models. 3) Software Version changed.
	6505-2CH	CC2640R2LRHBR	15015		Difference-6506-2CH VS 6505-2CH: 1) Model Number different. 2) Plastic casing is different

Model/HVIN		Texas (Instruments chip model)	Software Version	Appearance	Detail description
Original	6568	CC2640F128RHBR	15003		Difference- 6568 VS 6506-3CH: 1) Changing model number from 6568 to 6506-3CH 2) Instruments chip model changed: CC2640F128RHBR and CC2640R2LRHBR are same chip, Just replacing old and new chip models. 3) Software Version changed.
New	6506-3CH	CC2640R2LRHBR	15015		Difference-6568 VS 6505-3CH: 1) Changing model number from 6568 to 6505-3CH 2) Instruments chip model changed: CC2640F128RHBR and CC2640R2LRHBR are same chip, Just replacing old and new chip models. 3) Software Version changed.
	6505-3CH	CC2640R2LRHBR	15015		Difference-6506-3CH VS 6505-3CH: 1) Model Number different. 2) Plastic casing is different



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Model/HVIN	Texas (Instruments chip model)	Software Version	Appearance	Detail description
6567	CC2640F128RHBR	15003		Difference- 6567 VS 6568 1) 6568 (contains 3 control switches) adds an additional wire harness from the circuit board to a switchboard, while the model 6567 (contains 2 control switches) does not. 2) Practical digital component's location is a bit different.
6568	CC2640F128RHBR	15003		

Remark:

The hardware has not changed and as such the RF performance is also unchanged.

The latest software update allows the transmitter to communicate with the TQ receiver as well as a TQi receiver. Previously it could only communicate with the TQ receivers. This new software allows us to use this long-range transmitter with other vehicles we produce.

RF operation is not impacted, only what data is transmitted to the receivers.

Therefore original data were kept in this report.



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4.2 Test Location

All tests were performed at:

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Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.



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5 Equipment List

Average Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	AUDIX	N/A	SEM001-08	2022-05-14	2025-05-13
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2024-03-04	2025-03-03
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2025-02-26	2026-02-25
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024-03-04	2025-03-03
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2024-03-04	2025-03-03
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-04	2025-03-03
Power Sensor	TST PASS	TSPS2023R	SEM009-27	2024-03-04	2025-03-03
Power Sensor	TST PASS	TSPS2023R	SEM009-28	2024-03-04	2025-03-03
Power Sensor	TST PASS	TSPS2023R	SEM009-29	2024-03-04	2025-03-03

6 SAR Evaluation

6.1 RF Exposure Compliance Requirement

6.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

6.1.2 Limits



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The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

- ☐ f(GHz) is the RF channel transmit frequency in GHz
- ☐ Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- ☐ The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

6.1.3 EUT RF Exposure

Average Power:

Test Mode	Test Channel	Ant	Max. AV Power[dBm]
2.4G	2406	Ant1	5.86
2.4G	2429	Ant1	5.20
2.4G	2453	Ant1	4.85

2406MHz



2429MHz



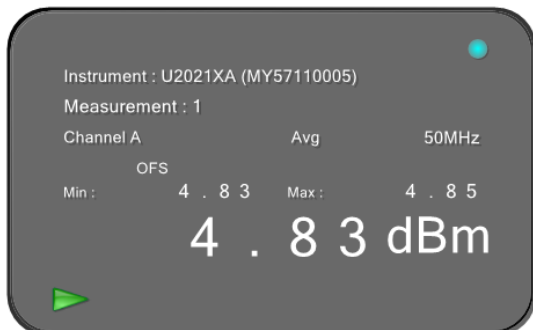
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2453MHz



The Max. AV power (including tune-up tolerance) 5.86 dBm on the lowest channel 2.406 GHz (*)
5.86 dBm logarithmic terms convert to numeric result is nearly 3.85 mW

According to the formula, calculate the test exclusion thresholds:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, m})]}{[\sqrt{f}(\text{GHz})]}$$

$$\text{General RF Exposure} = (3.85 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.406 \text{ GHz}} = 1.19 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

(1) < (2)

So the SAR report is not required.

(*) Max. power refer to Report No.:SZCR251000465802

- End of the Report -

