

Proposal of Additional Test Campaign for Minimum Assessment rev.1

IWG WGWT

15 December 2021



JAPAN AUTOMOBILE STANDARDS INTERNATIONALIZATION CENTER

Although JASIC understands capacity constraints, following assessment items are crucial to improve precision.

■ Minimum assessment items

Assessment items	Expected Participants
Day to day variation	All test centers
Validation of coefficients	
Effect of water depth/road surface roughness	Test center which performed water depth evaluation of analytical plan

JASIC proposes MINIMUM assessment plans

1) Assess day to day variation of Molded SRTTworn and equations of calculations

■ Candidate tyres:

■ Participants : All test centers

Candidate 1(lowest μ peak),2,3,4,5,6,7,8,9,10,11,12,13: 3PMSF

Candidate 14(lowest μ peak),15,16,17,18,19,20,21,22,23,24,25,26: Normal

■ Test sequence :

The lowest μ peak tires in the category repeat tests for four days

Day 1

Molded SRTTw-Buffered SRTTw-Candidate 1-Candidate 2-Molded SRTTw-SRTTn-Candidate 3-Candidate 4-Molded SRTTw

Day 2

Molded SRTTw-Buffered SRTTw-Candidate 1-Candidate 5-Molded SRTTw-SRTTn-Candidate 6-Candidate 7-Molded SRTTw

Day 3

Molded SRTTw-Buffered SRTTw-Candidate 1-Candidate 8-Molded SRTTw-SRTTn-Candidate 9-Candidate 10-Molded SRTTw

Day 4

Molded SRTTw-Buffered SRTTw-Candidate 1-Candidate 11-Molded SRTTw-SRTTn-Candidate 12-Candidate 13-Molded SRTTw

Day 5

Molded SRTTw-Buffered SRTTw-Candidate 14-Candidate 15-Molded SRTTw-SRTTn-Candidate 16-Candidate 17-Molded SRTTw

Day 6

Molded SRTTw-Buffered SRTTw-Candidate 14-Candidate 18-Molded SRTTw-SRTTn-Candidate 19-Candidate 20-Molded SRTTw

Day 7

Molded SRTTw-Buffered SRTTw-Candidate 14-Candidate 21-Molded SRTTw-SRTTn-Candidate 22-Candidate 23-Molded SRTTw

Day 8

Molded SRTTw-Buffered SRTTw-Candidate 14-Candidate 24-Molded SRTTw-SRTTn-Candidate 25-Candidate 26-Molded SRTTw

2) Water depth / road surface roughness

■ Participants : Test center which performed water depth evaluation of analytical plan

■ Test sequence :

Day1 Water depth 0.5mm

Molded SRTTw – Buffed SRTTw – Candidate A – Candidate B – **Molded SRTTw** – SRTTn-Candidate C – **Molded SRTTw**

Day2 Water depth 1.0mm

Molded SRTTw – Buffed SRTTw – Candidate A – Candidate B – **Molded SRTTw** – SRTTn-Candidate C – **Molded SRTTw**

Day3 Water depth 1.5mm

Molded SRTTw – Buffed SRTTw – Candidate A – Candidate B – **Molded SRTTw** – SRTTn-Candidate C – **Molded SRTTw**

Day4 Water depth 2.0mm

Molded SRTTw – Buffed SRTTw – Candidate A – Candidate B – **Molded SRTTw** – SRTTn-Candidate C – **Molded SRTTw**

3. Necessary quantity of Molded SRTT worn

JASIC recommends to produce Molded SRTT worn : **107 tyres**

Although the test volume will be reduced, the same quantity of Molded SRTTworn as Buffed SRTTworn at the first test campaign will be necessary.

Because all sequences will specify Molded SRTTworn as a reference.

In addition, spare Molded SRTTworn should be kept in enough quantity, especially for the vehicle method because wear rate of SRTTworn is fast.

	Trailer method	Vehicle method	Sub total
Number of participated test center	9	5	-
Number of 1 st test campaign	18	57	-
Necessary quantity for additional test campaign	18	60	78
Spare (1set/lab)	9	20	29
Total			107

Given that:

- JASIC understands that the limited volume (30 – 40 unit) of Molded SRTTworn will be available by end of March (1st lot).
- Improvement of precision is crucial. 107 unit of Molded SRTTworn are necessary.
- Additional 70+ tyres of molded SRTTworn should be available by May (2nd lot), within according to the common sense as tyre manufactures.

JASIC proposes the timeline of Step 2 assessments assuming that total 100+ molded SRTTworn could be available by May.

4. Alternative Timeline

Option 1: Work on the trailer method first

■ Timeline

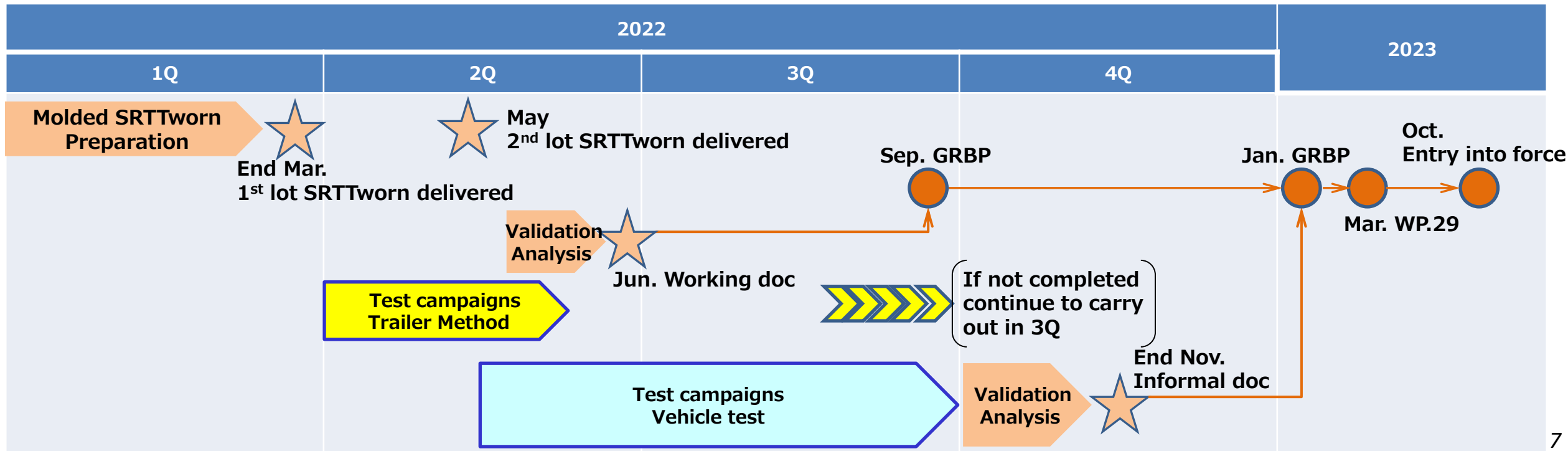
Mold SRTTworn delivery : Mar. 2022 (1st lot), May 2022 (2nd lot)

Additional test campaigns : Apr. 2022*- Sep. 2022

*1st lot of Molded SRTTworn will be used preferentially for testing the trailer method

Submitting working document for Trailer Method : Jun. 2022

Submitting informal document for Vehicle Method : Nov. 2022



4. Alternative Timeline

Option 2: Extend the timeline

■ Timeline

Mold SRTTworn delivery : Mar. 2022 (1st lot), May 2022 (2nd lot)

Additional testing : Apr. 2022* - Sep. 2022

* 1st lot of Molded SRTTworn will be used preferentially for testing the 3PMSF tyres

Submission of working document: End of Oct 2022

