

VALIDATION TEST

Title	One engine inoperative second segment climb		
Id	1 c ii	Aircraft	DA42-VI
Device	A42M2-12	Version	1.02
Qualification Level	FNPT2	Operator	AFTA
Result Date	04/04/24	Master Date	27/07/21
Result Load	2012.01	Master Load	2012.01

Objective	Expected Results
Demonstrate that the simulation of engine thrust, aerodynamic drag and atmosphere in a steady state one engine inoperative climb conditions are conformed to the class of aeroplanes	Airspeed approx. 85kts VS (Rate of Climb) approx. 260 ft/mn
Reference	Evaluation Criteria
Chapter 12 - Validation data - Performances - Test 1.c.ii	+/-3 Kts Airspeed +/- 5 % or +/- 100ft/mn Rate of Climb

Demonstration procedure	The aeroplane is established in steady one engine inoperative second segment climb phase. Perform the steady climb and check the minimum second-segment climb gradient requirement to satisfy the WAT limiting conditions.
Manual test procedure	The pilot performs a one engine inoperative climb, maintaining constant power setting for at least 1000 ft, using trim as required to maintain airspeed. The left engine propeller is feathered. Test performed at WAT limiting conditions. See the initial parameters next page.
Automatic test procedure	1 c ii

Authority's approval (date, signature and comments)	Operator's approval (date, signature and comments)

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Autopilot mode	AUTO_HDG_AND_IAS

Initial parameters	CLIMB N-1
Gross weight (kg) : 1900 Balance (%) : 50 Altitude (ft) : 3000 Vertical speed (ft/min) : 230 (free) IAS (kt) : 85 Heading (°) : 0 Bank (°) : 0 (free) Attitude (°) : 9 Pedal Position (%) : 25 Column Position (%) : 60 Wheel Position (%) : -5	Flaps lever position : 0 Gear lever position : 0 Left Load (%) : 0 Right Load (%) : 92 Left RPM : 0 Right RPM : 2090

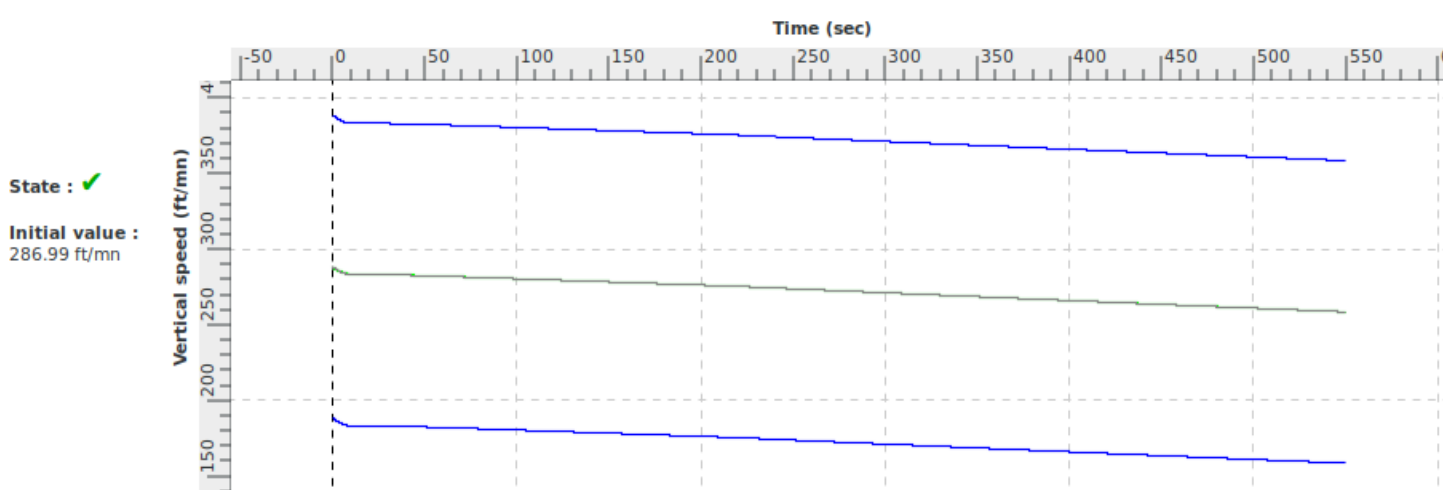
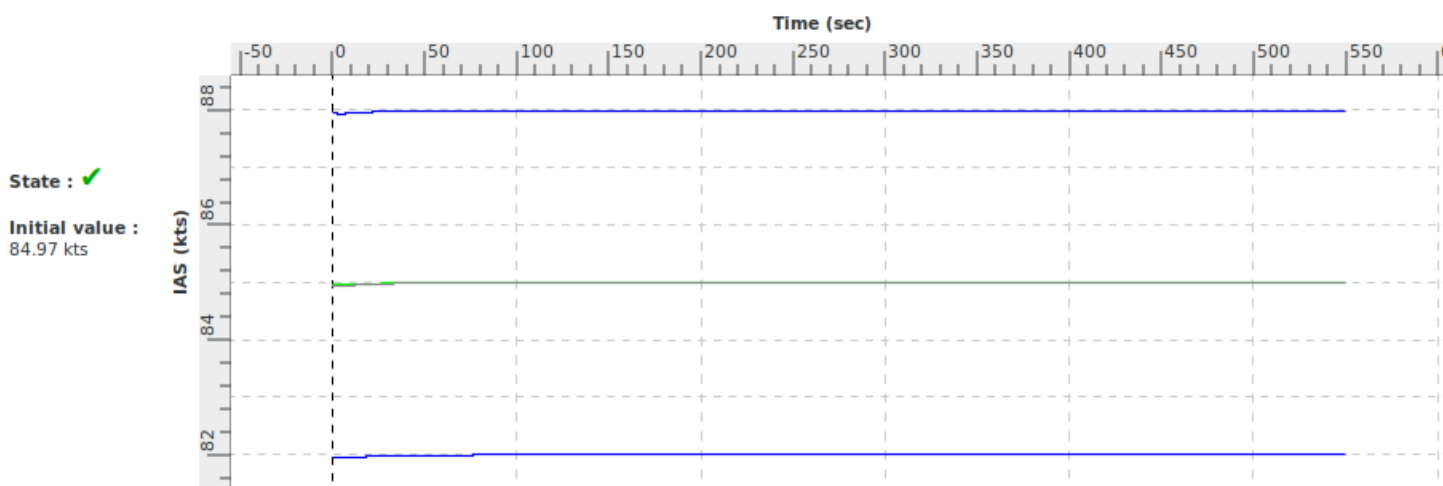
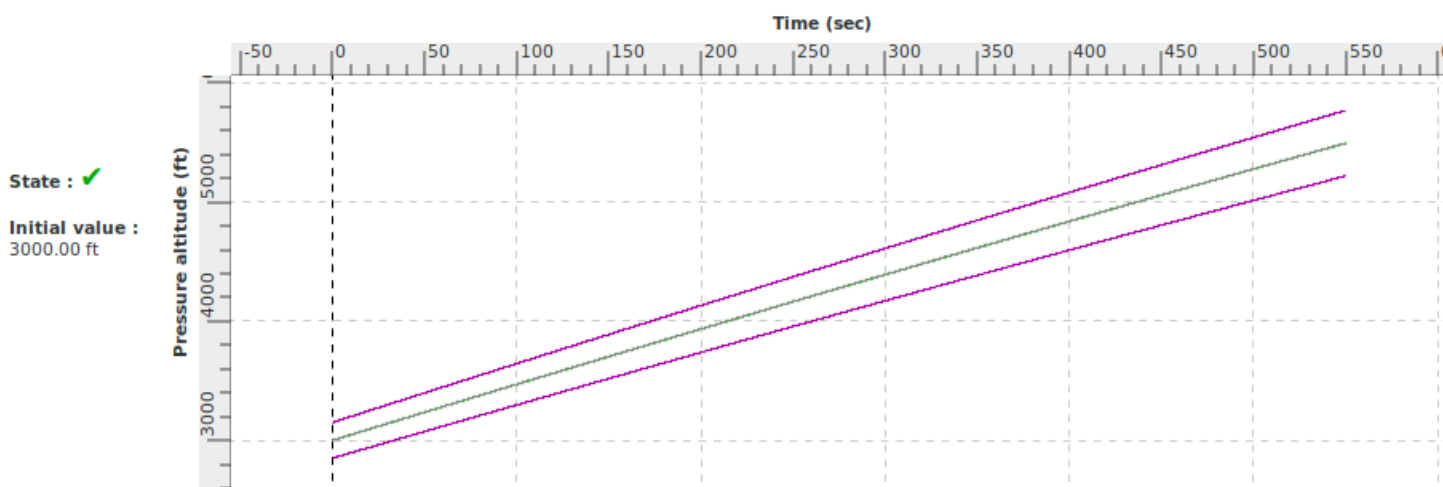
Commands			
Time	Name	Param	Explanations
0.0	Start_Test	0.0	Start the results recording
550.0	Stop_Test	0.0	Stop the test procedure

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Log of Revision		
Rev. Nbr	Date	Reason for revision
1.01	29/03/21	1909 Master. Expected results unchanged.
1.02	27/07/21	2012-R1 Master. Expected results unchanged.

Notes

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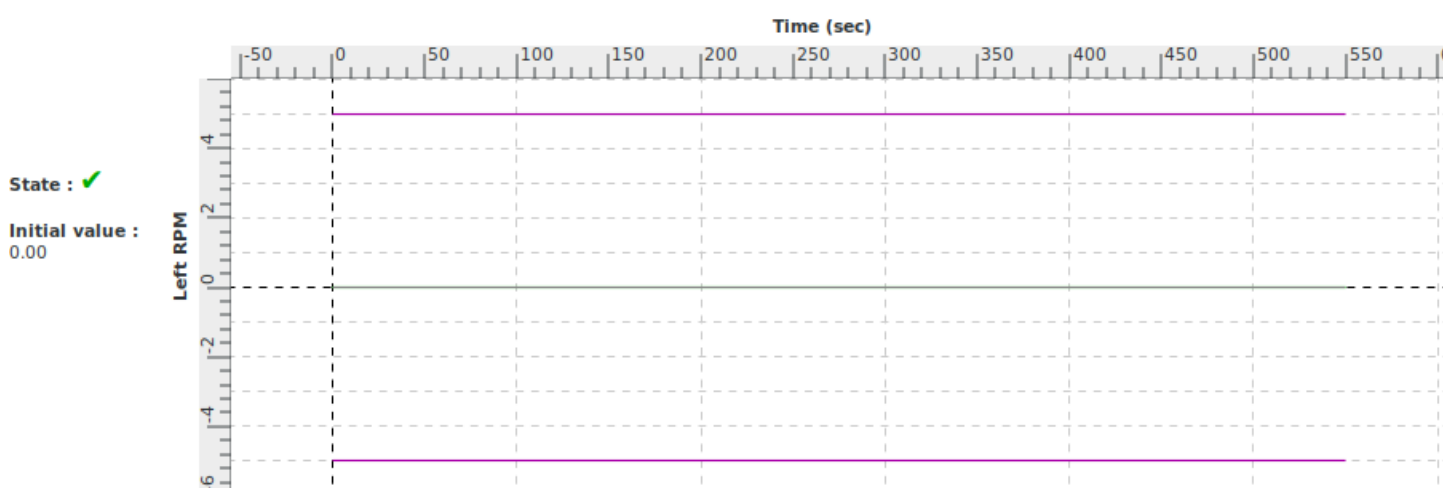
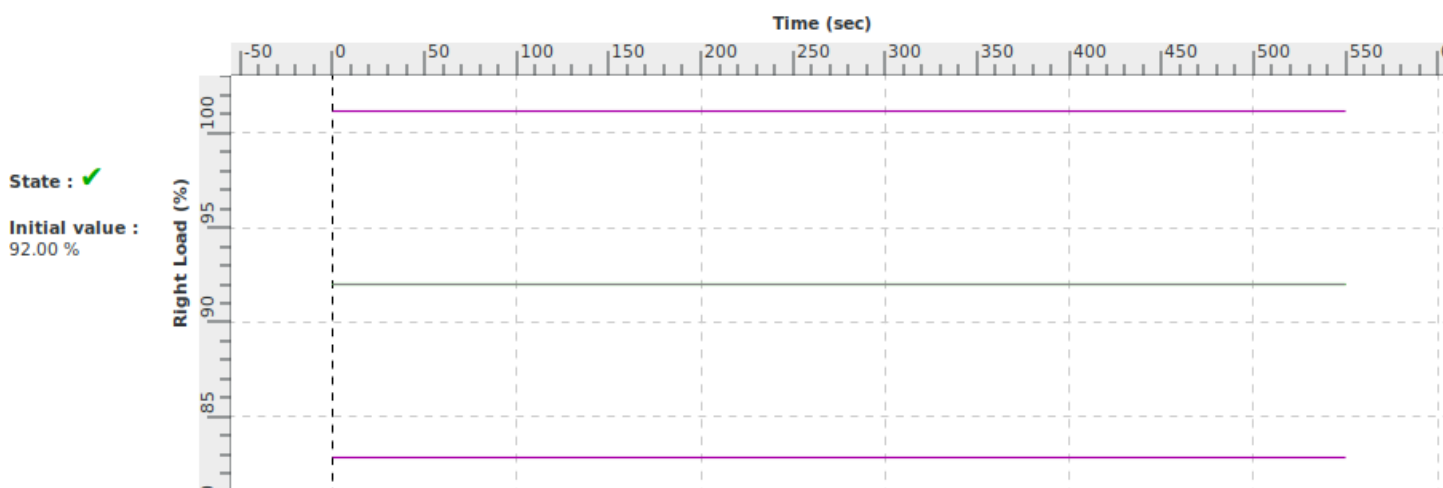
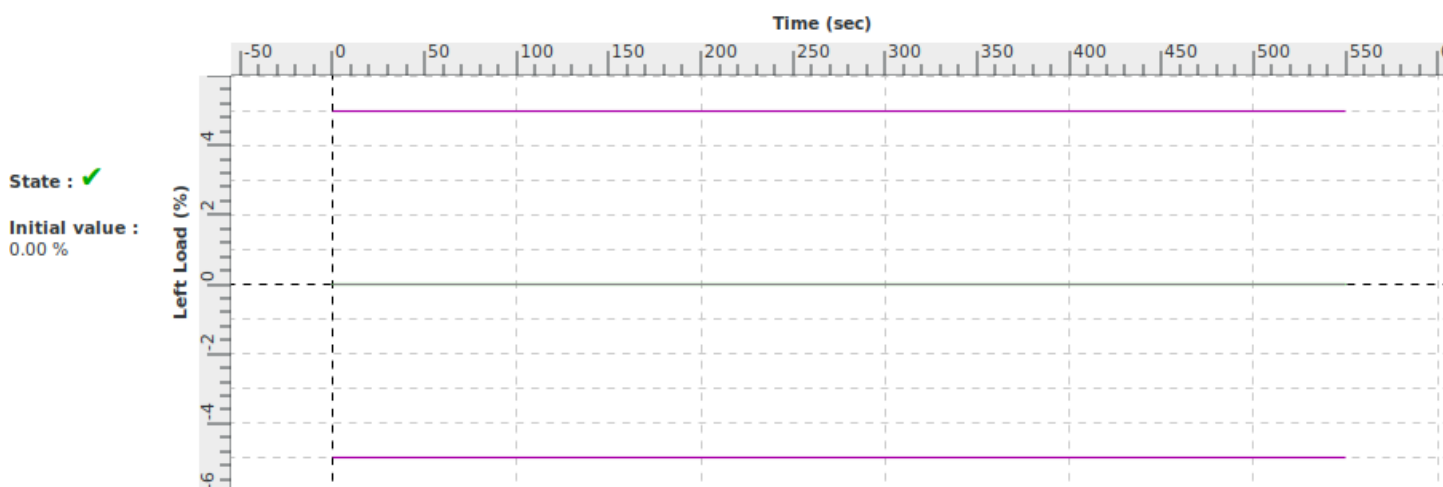
Legend :

green : results within tolerances
blue : tolerances

red : results out of tolerances
violet : tolerances Alsिम

grey : master

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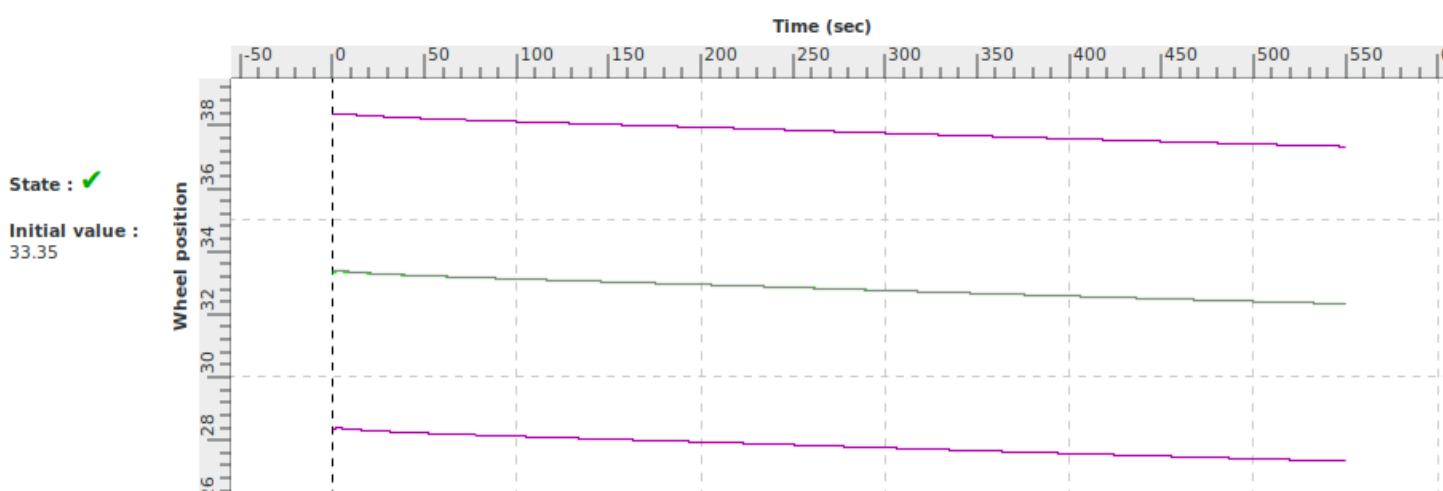
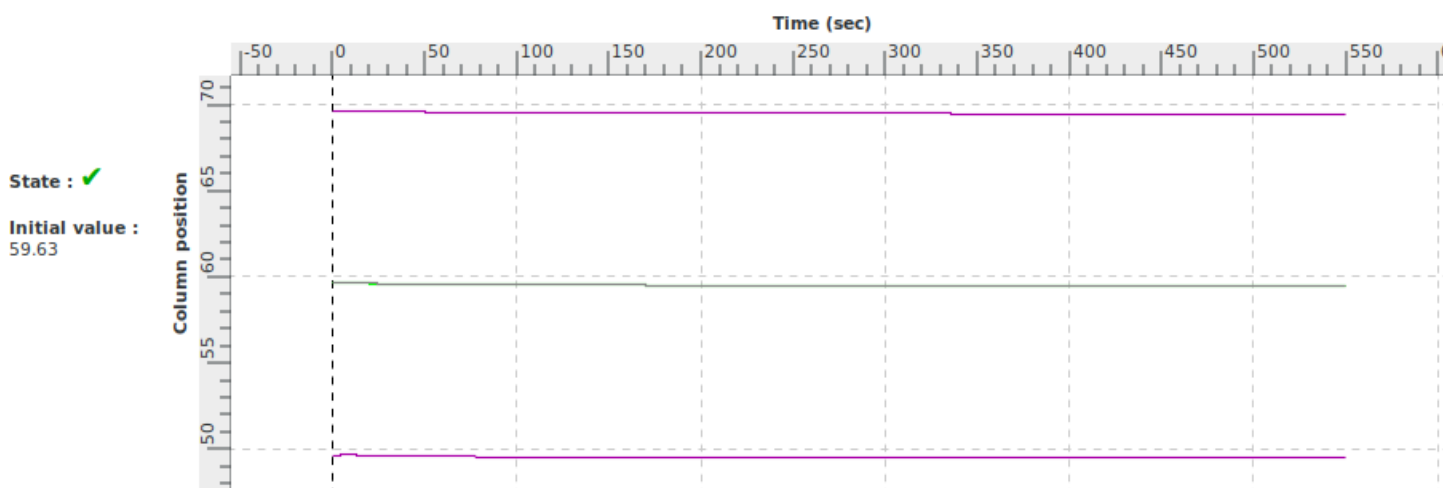
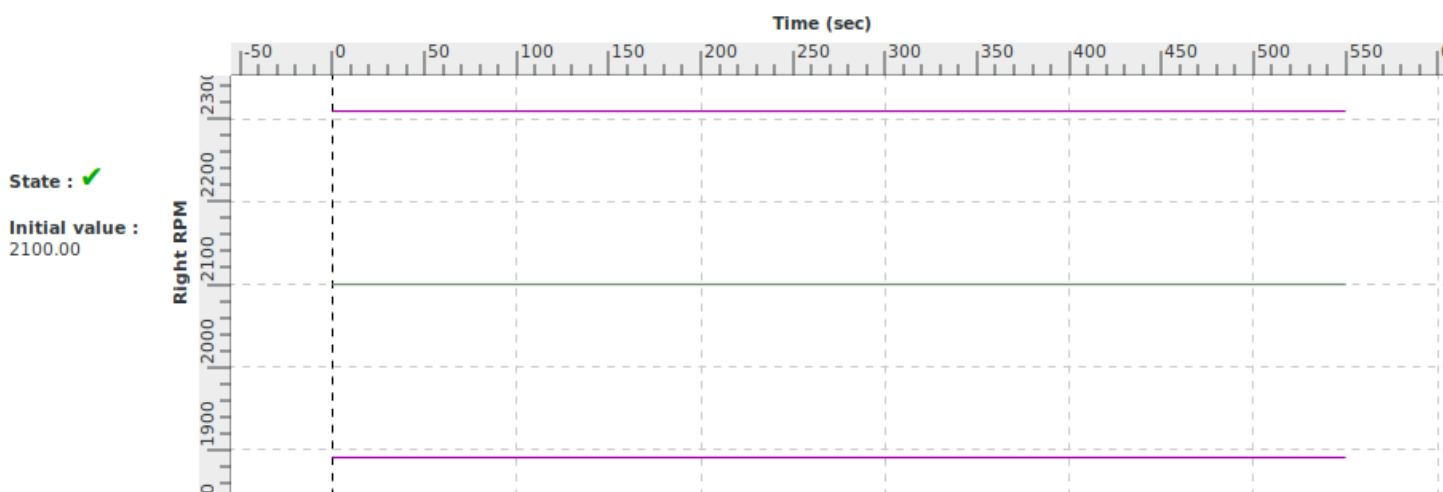
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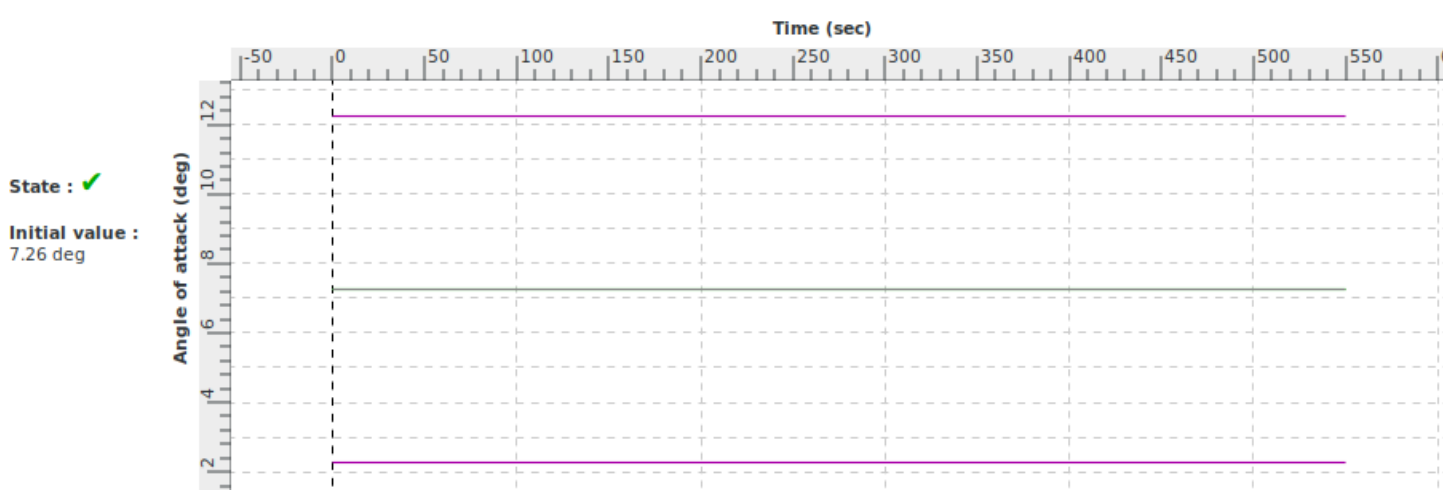
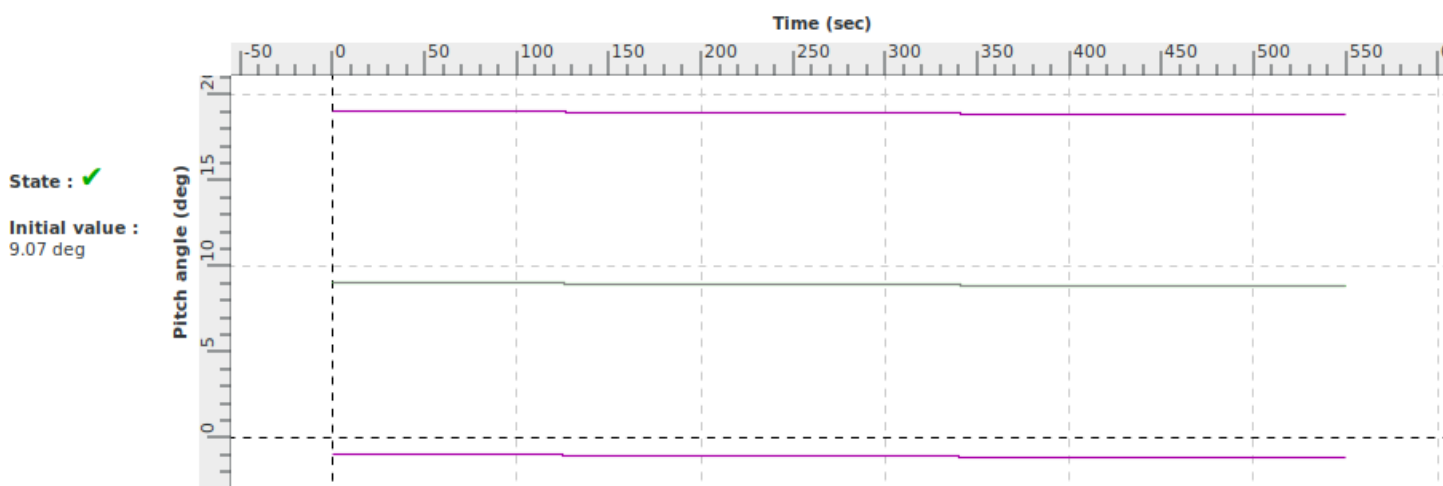
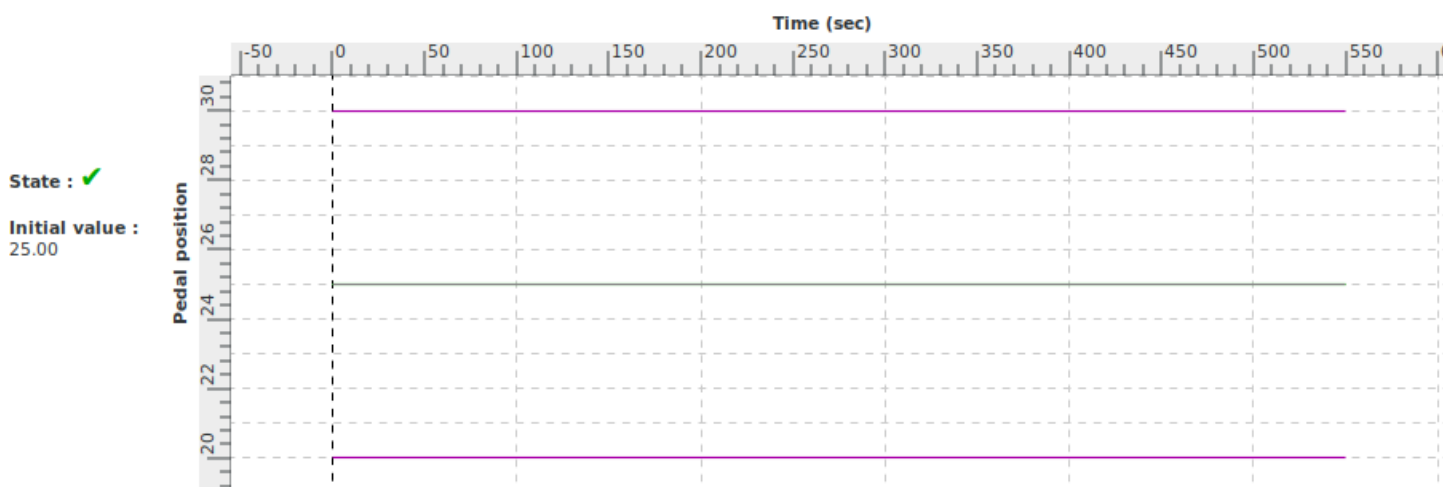
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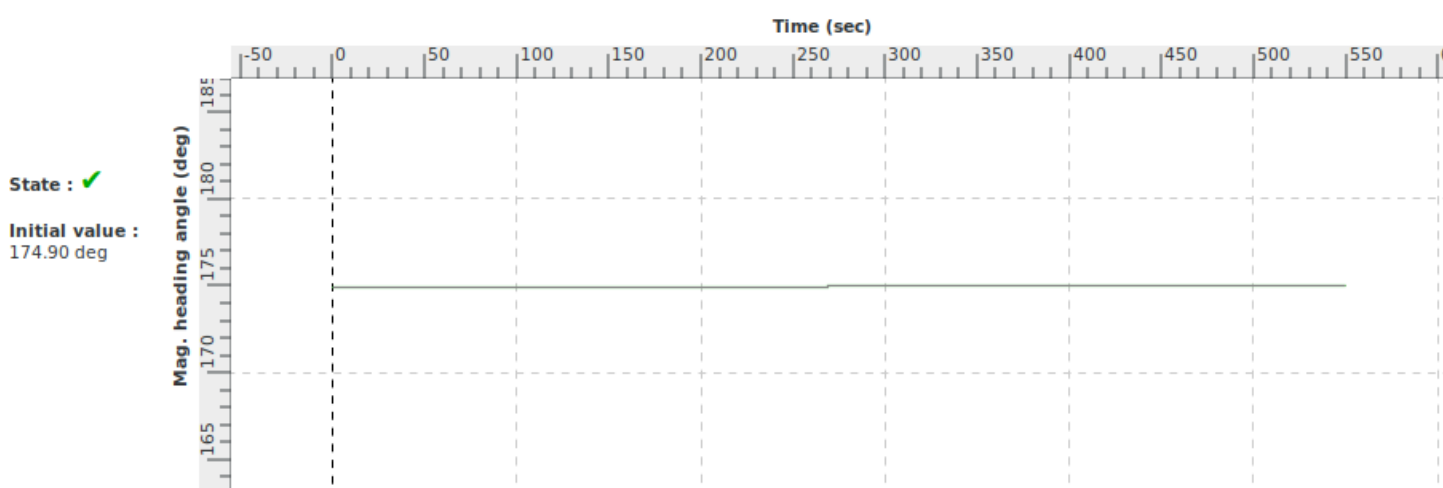
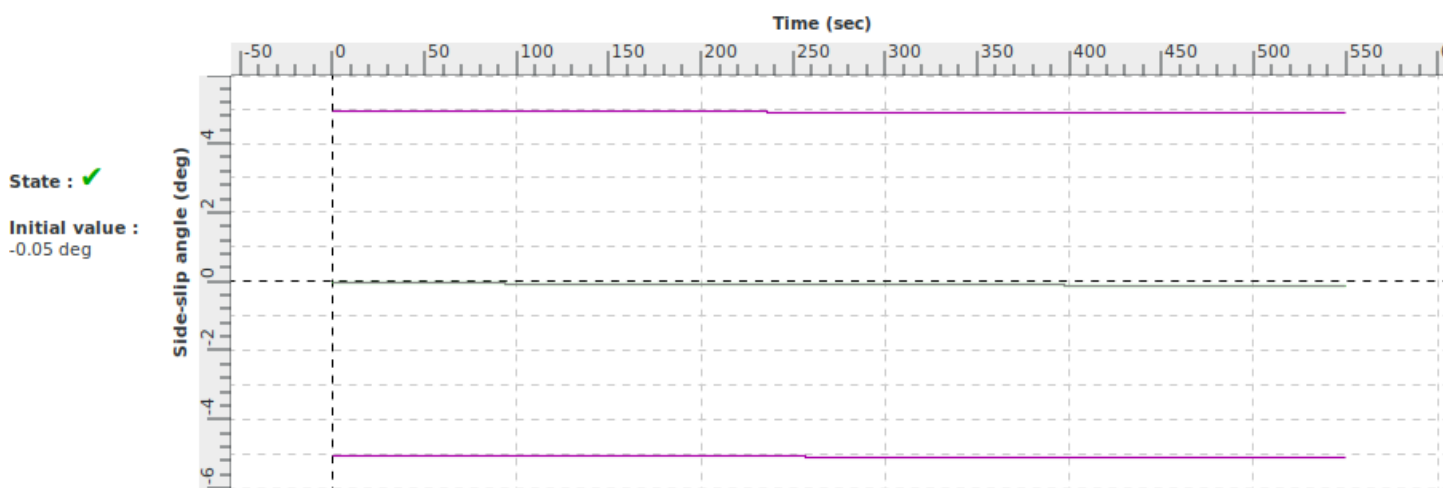
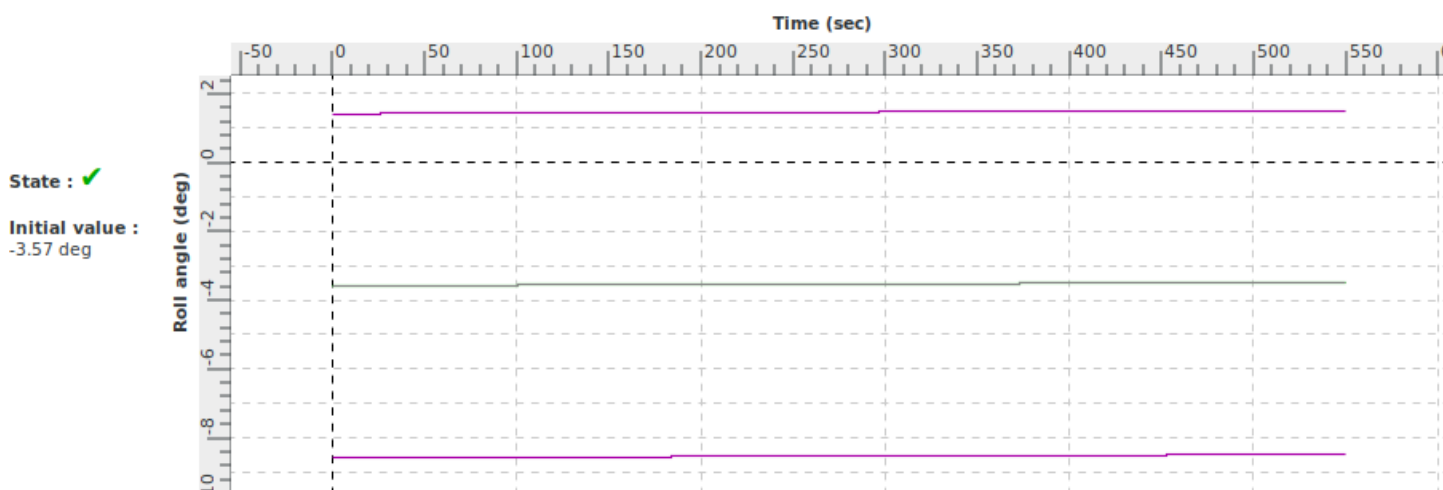
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