






Test Case	TC48 Test TW Calc with SOG	
<div><div>Belongs to Plan(s):</div><div>TP5 dashboard_tactics...</div></div> <div><div>Belongs to Suite(s):</div><div>TS18 NMEA simulator ...</div></div> <div><div>Case Type:</div><div>Functionality</div></div> <div><div>Label(s):</div><div>windows</div></div> <div><div>Test Quality:</div><div><div>EXCELLENT</div> Defects Closed Fixed</div></div> <div><div>Assign To:</div><div> Petri Makijarvi</div></div> <div><div>Case Priority:</div><div>Medium</div></div> <div><div>Estimate:</div><div>10</div></div> <div><div>Is Automated</div></div>		
<div><div>Precondition</div><div>This test case is a continuation of test case TC47 and should not be executed without it being executed first.</div></div>		
<div><div>Steps</div><div>Click "Tab" or "Shift + Tab" to navigate grid ?</div><div><div>1</div><div><div>!!</div><div>If the NMEA Simulator is still running, stop it.</div><div></div></div><div><div></div></div></div></div>		

- 2  Modify the set of sentences to be sent out for the SOG test: 

Options

General	NMEA0183	NMEA2000	Track	Limits	
NMEA0183 Port		COM29	<input checked="" type="checkbox"/> Use list		
NMEA0183 baud rate		4800			
NMEA0183 HDx send delay (ms)		1000			
NMEA0183 sentences to be sent					
HDG	<input type="checkbox"/> Heading	RSA	<input type="checkbox"/> Rudder Sensor Angle	MWD	<input type="checkbox"/> (True wind info)
HDT	<input checked="" type="checkbox"/> True heading	MTW	<input type="checkbox"/> Mean Temperature of Water	MWV	<input checked="" type="checkbox"/> (Relative wind info)
GLL	<input checked="" type="checkbox"/> Geographic Position	DPT	<input type="checkbox"/> Depth of Water	MWV	<input type="checkbox"/> (True wind info)
RMC	<input type="checkbox"/> Recomm. Min. Nav. Info.	VHW	<input checked="" type="checkbox"/> Water speed and heading	VWR	<input type="checkbox"/> (Relative wind info)
GGA	<input checked="" type="checkbox"/> Global Pos. System Fix Data	RPM	<input type="checkbox"/> Engine RPM		
VTG	<input checked="" type="checkbox"/> Ground speed				
ZDA	<input checked="" type="checkbox"/> Time,date,UTC,dmy,time zone				



- 3  (If you are using July 017 edition of NMEA Simulator - skip this step) This step is optional and only necessary with NMEA Simulator March 2019 edition, we need to compensate its interpretation of VTG sentence with NMEA Converter in OpenCPN as follows: 

Options

Display

PreferenceDlg

☒ Block incoming messages with wrong checksum

0 \$NCVHW,\$VWVHW1,\$VWVHW2,\$VW...

nmeaSendObjectDlg

☒ Send after update all variables

☐ Send every  seconds.



☐ Calculate using degrees

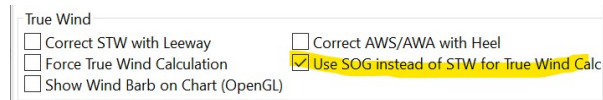
\$NCVTG,10.0,T,5.5,M,5.0,N,9.3,K



\$NCVTG,\$GPVTG1,\$GPVTG2,\$GPVTG3,\$GPVTG4,\$GPVTG5,\$GPVTG6,\$GPVTG7,\$GPVTG8

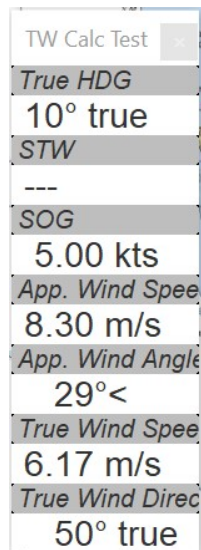
OK Cancel



- 4  Prepare the Tactics module to make TW calculations on SOG data instead of STW data (which will not be available now, be attentive on this; we test here two project requirements at once): 



- 5  Start the "run" on NMEA emulator. The test dashboard window should show the values now as follows: 




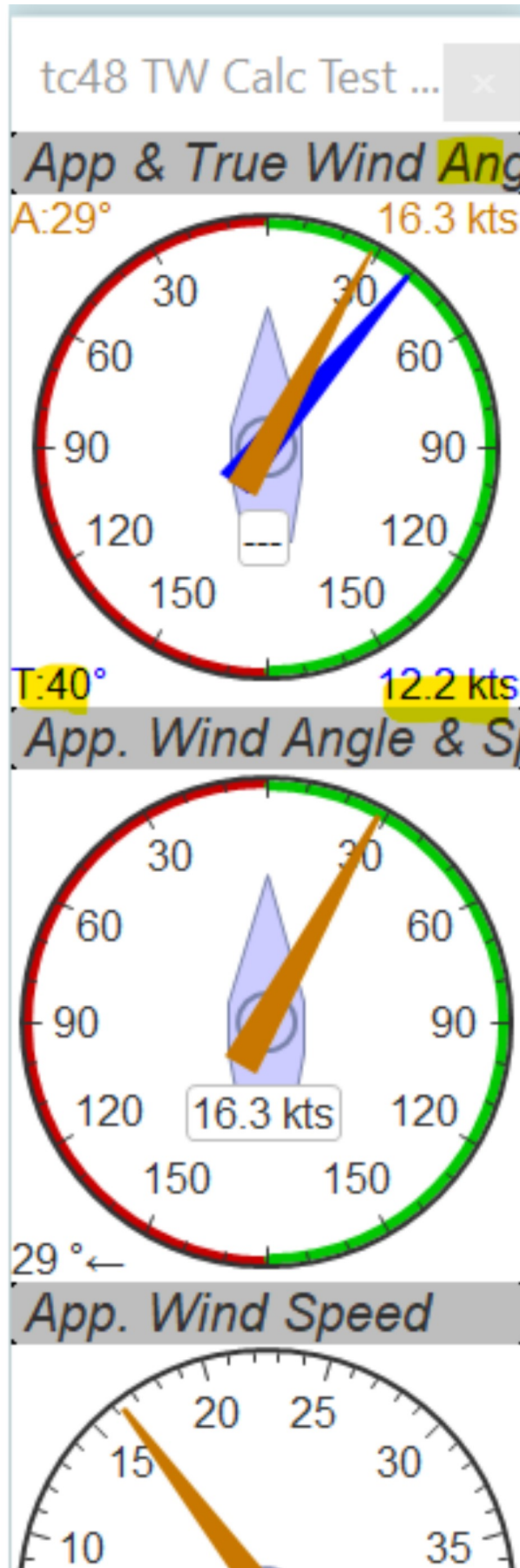
TW Calc Test	
True HDG	10° true
STW	---
SOG	5.00 kts
App. Wind Speed	8.30 m/s
App. Wind Angle	29°<
True Wind Speed	6.17 m/s
True Wind Direc	50° true

Note that between the previous test case (STW) and this one, the STW value should disappear, otherwise the Watchdog in Dashboard is not working. Otherwise, observe the values for correctness.




PASS or FAIL

- 6  Add a second test window which contains all the dials which have true wind data on them and verify that the values indicated on yellow appear:

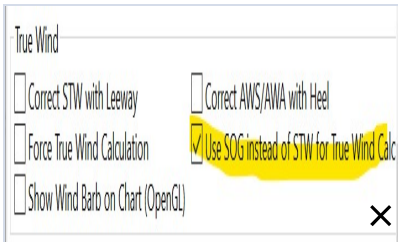
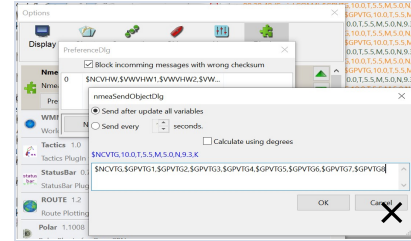
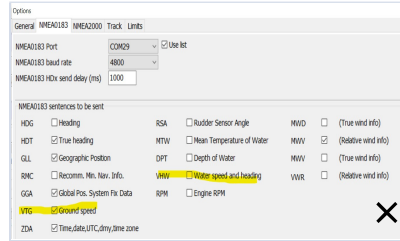
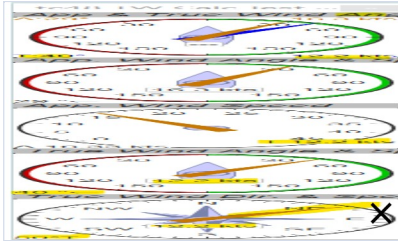


7  Change now the wind to come from port side. Repeat step 6. 

 PASS or FAIL.











 Add Step

## Attachments



« < 1 2 > »

 Add Attachments

RESULTS	DEFECTS	REQUIREMENTS			
Status	Test Plan Run	Assigned To	Updated At	↑	Actions
✓ Pass	TPR32 dashboard_tactics_pi_...	 Petri Makijarvi	about a year ago		
▶▶ Skip	TPR34 dashboard_tactic_pi_st...	 Petri Makijarvi	about a year ago		
▶▶ Skip	TPR35 dashboard_tactics_pi_...	 Petri Makijarvi	about a year ago		
▶▶ Skip	TPR36 dashboard_tactics_pi_...	 Petri Makijarvi	about a year ago		
▶▶ Skip	TPR37 dashboard_tactics_pi_...	 Petri Makijarvi	about a year ago		

« < 1 2 3 4 5 > »

ACTIVITY	HISTORY	COMMENTS	
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