

Corso di Laurea Magistrale in Ingegneria Civile

TESI DI LAUREA MAGISTRALE

ALLEGATO 1: APPENDICE DEI GRAFICI - PARTE 6

**Prove su tavola vibrante di un silo metallico a fondo piano:
identificazione dinamica mediante accelerometri**

Candidato:

Matteo Marra

Matricola 0000812334

Relatore:

Chiar.mo Prof. Ing. Stefano Silvestri

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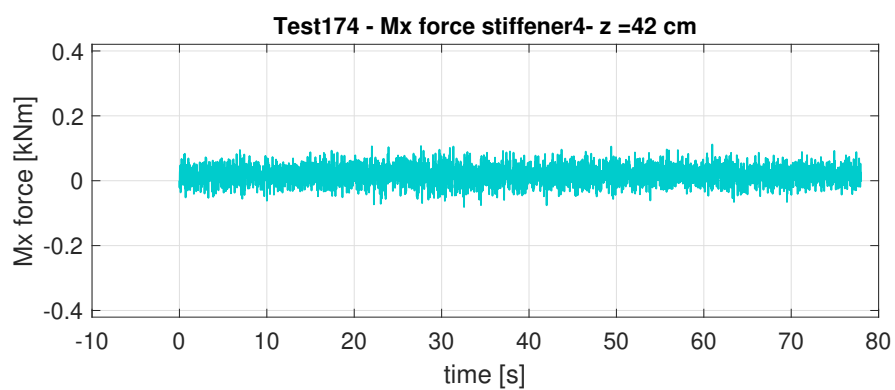
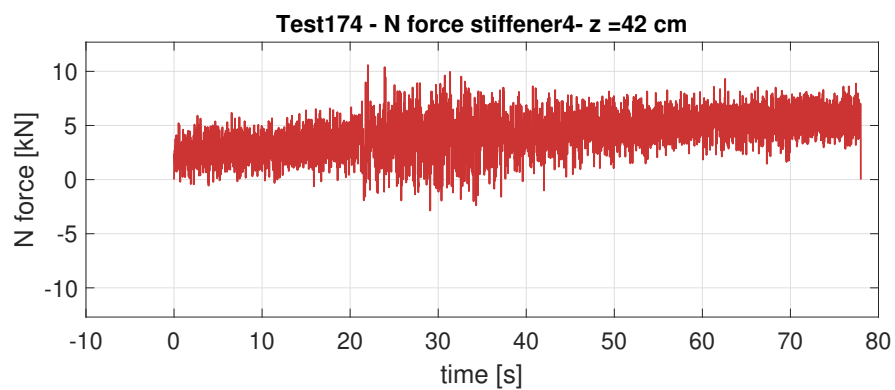
TESTS IN CONFIGURAZIONE A BASE ISOLATA

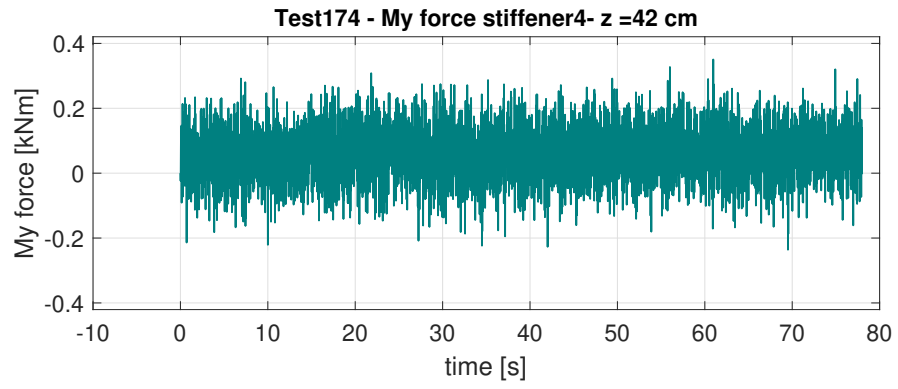
A.7.5 Sforzi nei montanti

- Terremoto A1 0.1 g

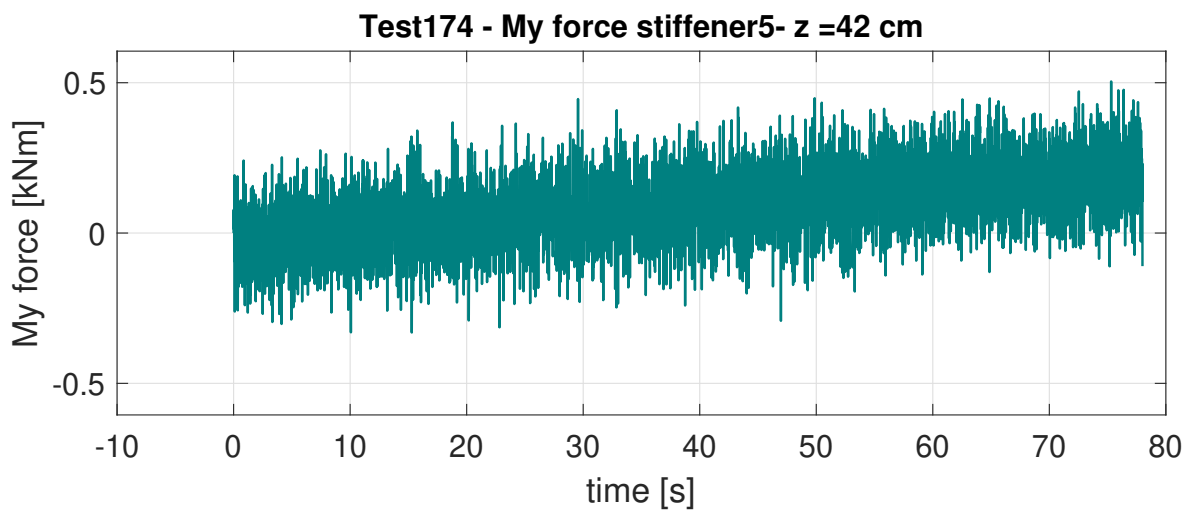
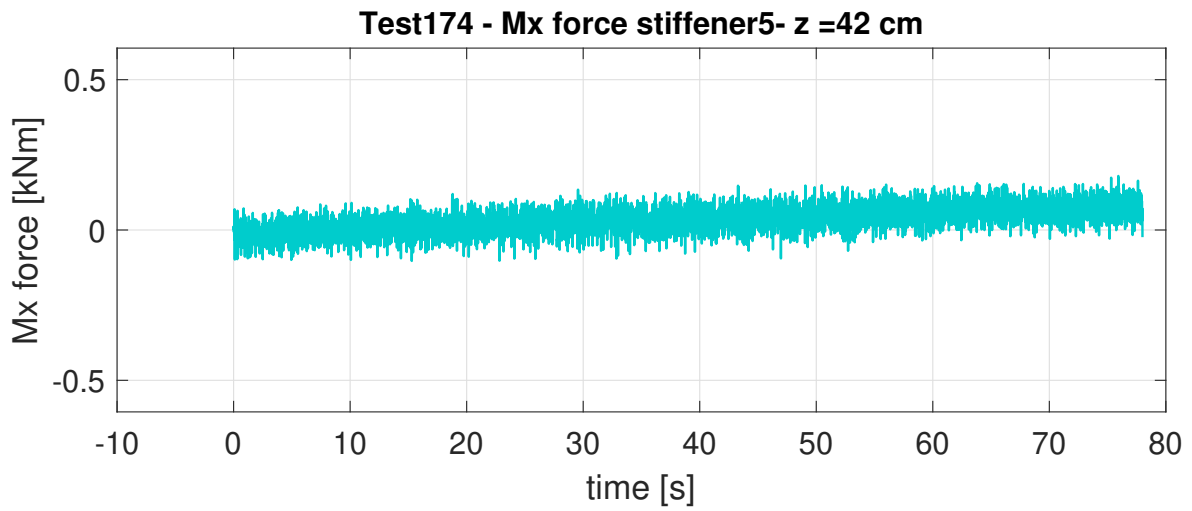
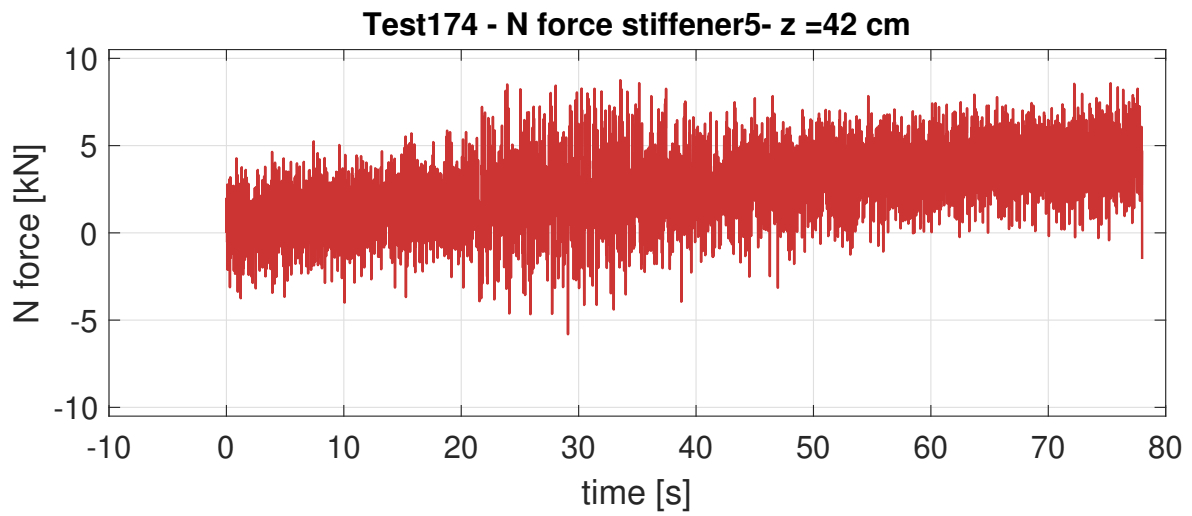
Quota z = 42 cm

– Montante numero 4

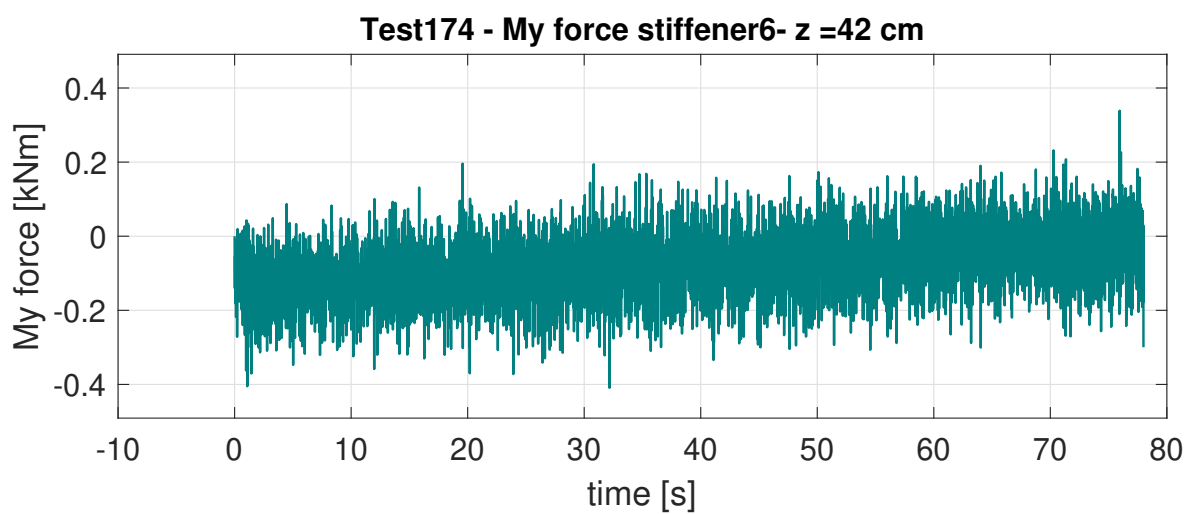
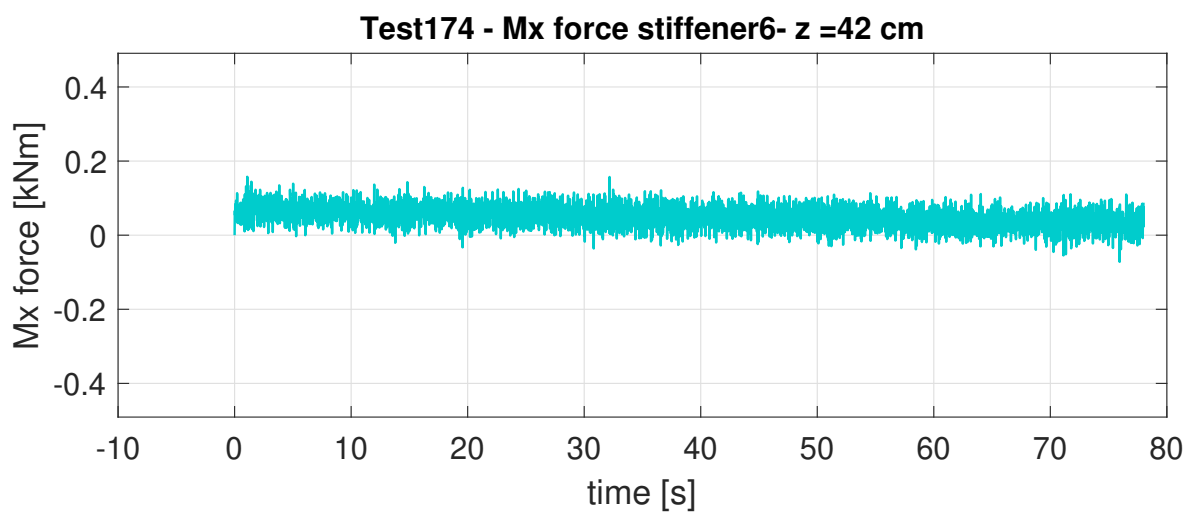
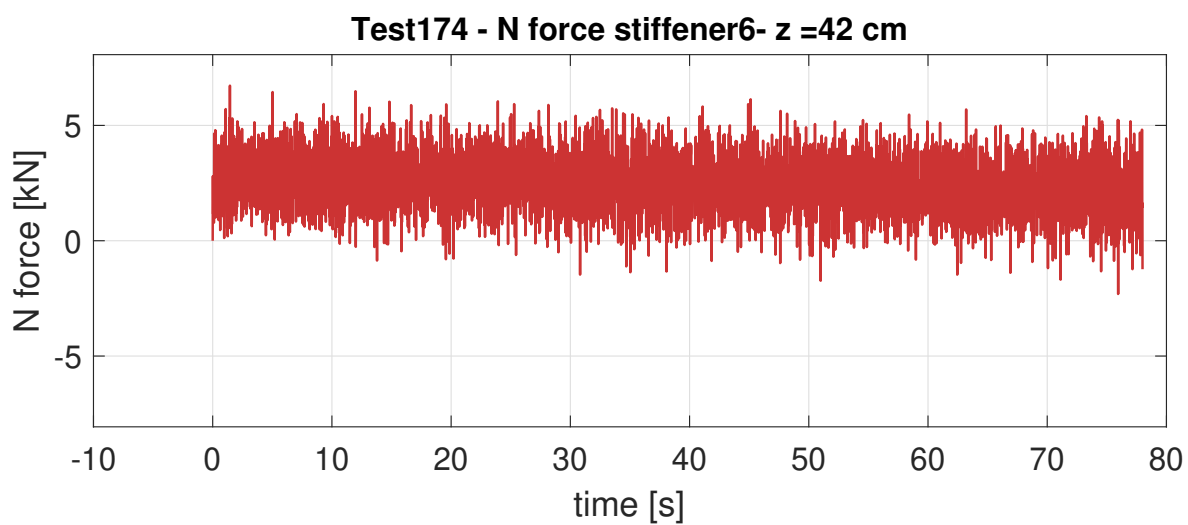




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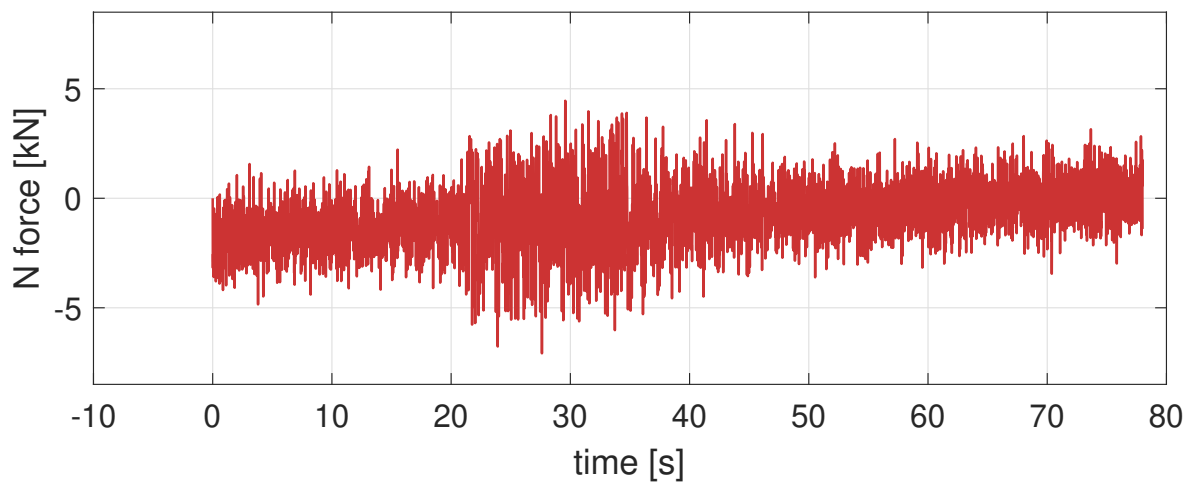


- Montante numero 6

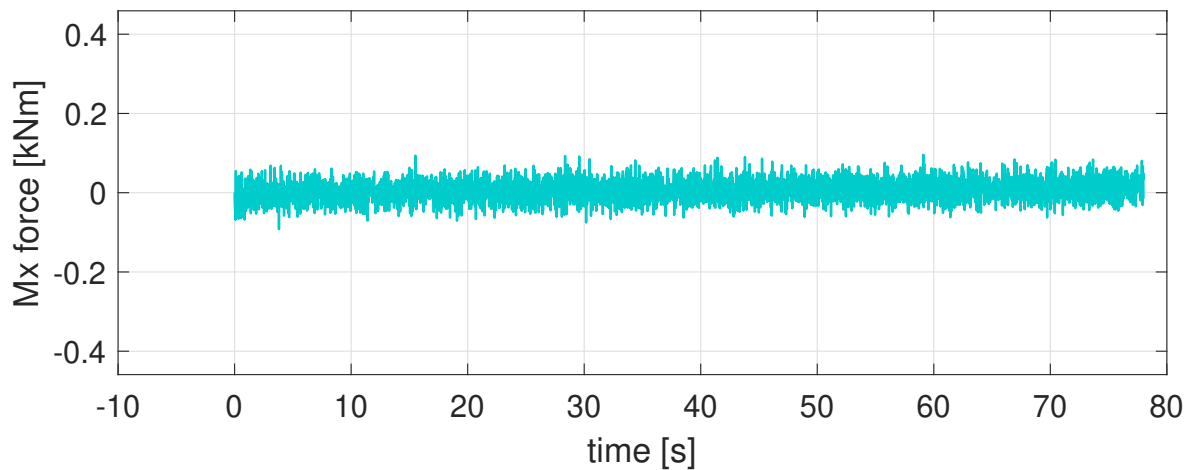


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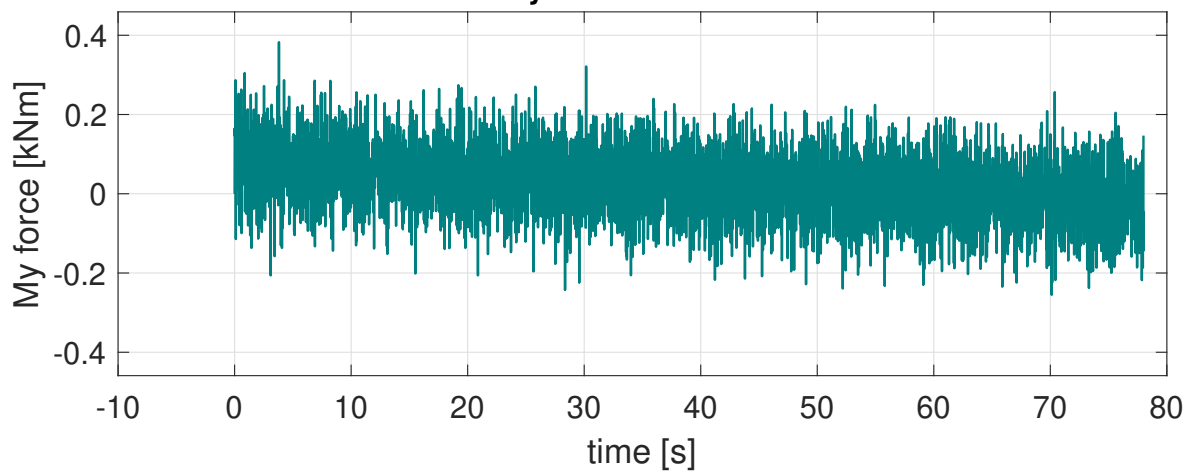
Test174 - N force stiffener7- z =42 cm



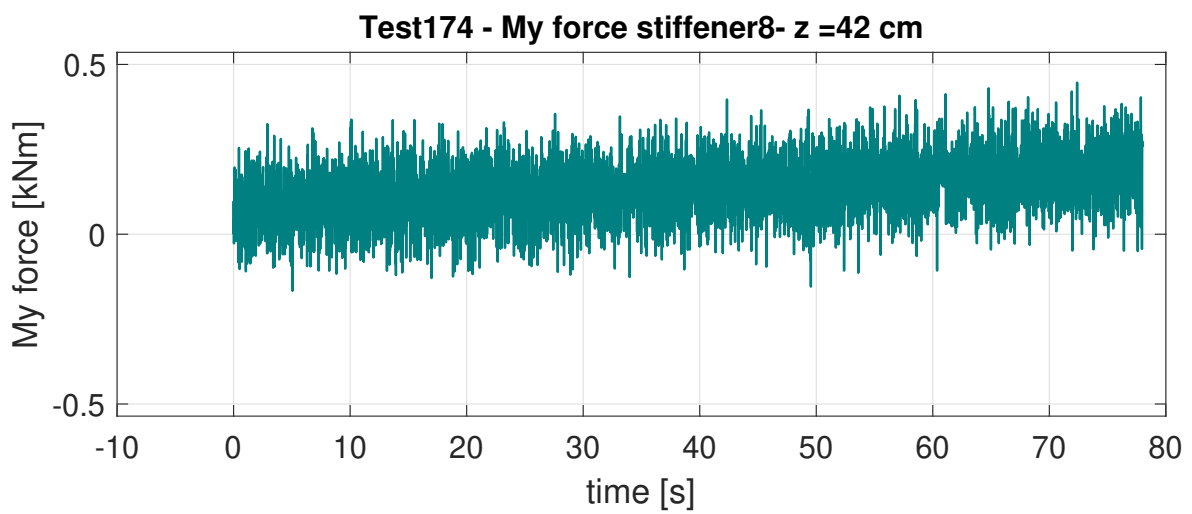
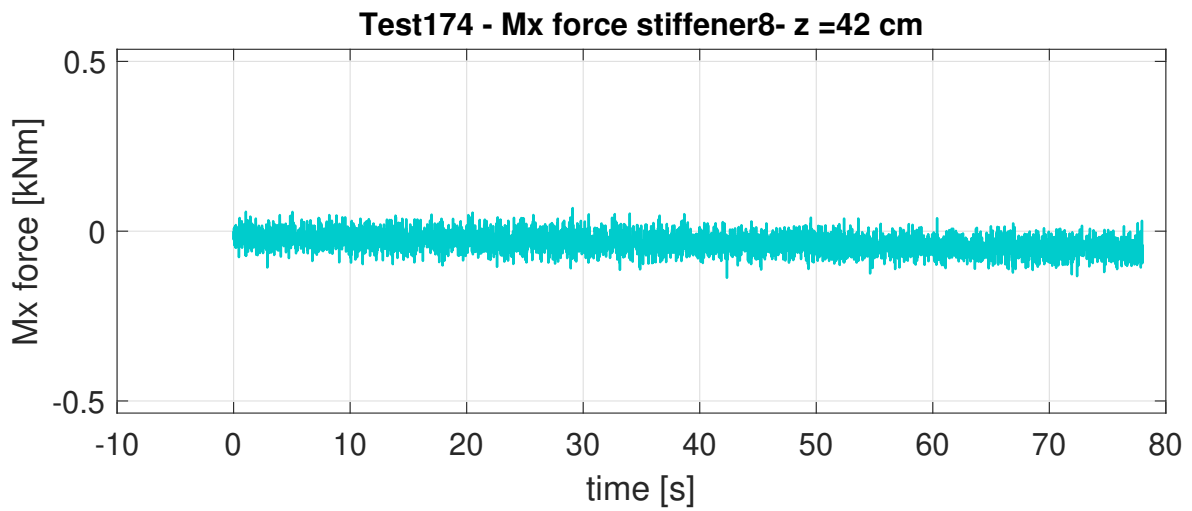
Test174 - Mx force stiffener7- z =42 cm



Test174 - My force stiffener7- z =42 cm

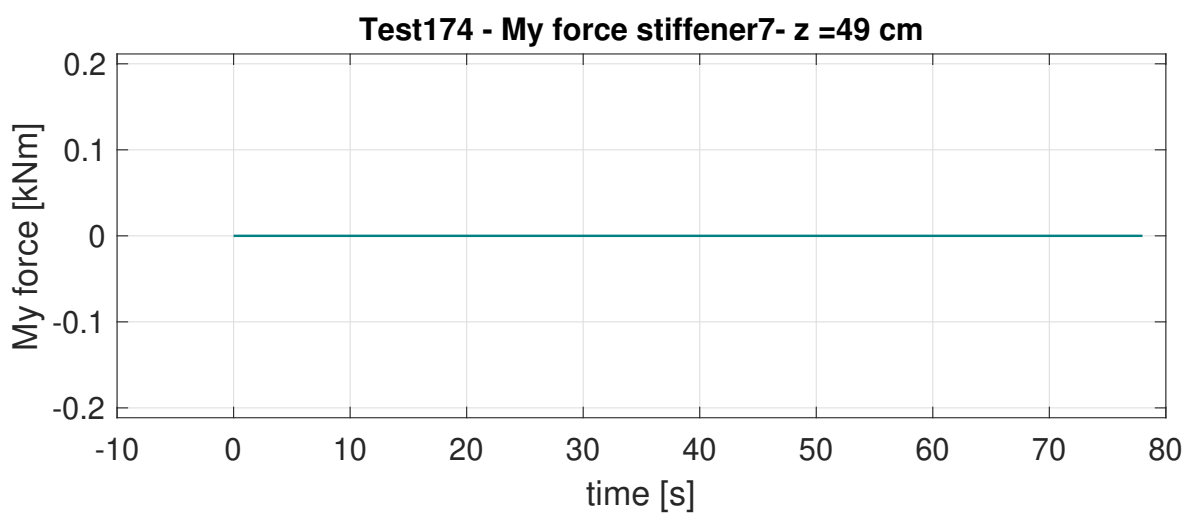
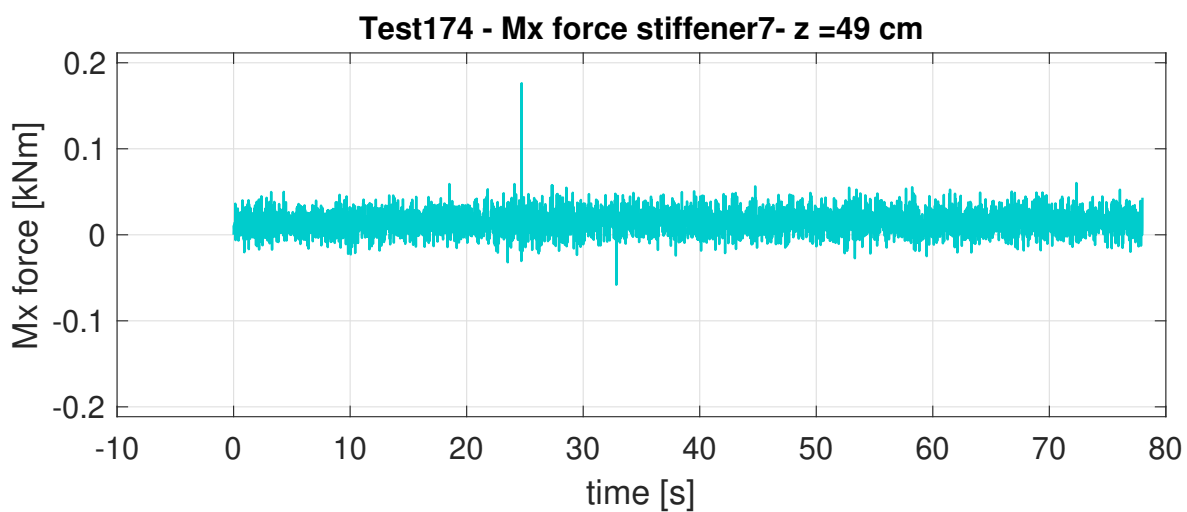
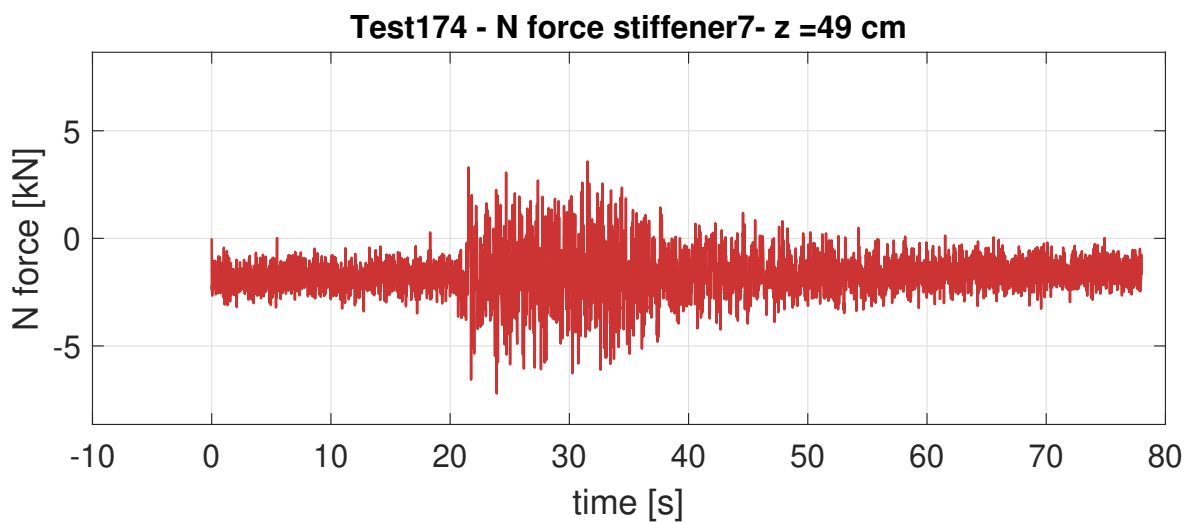


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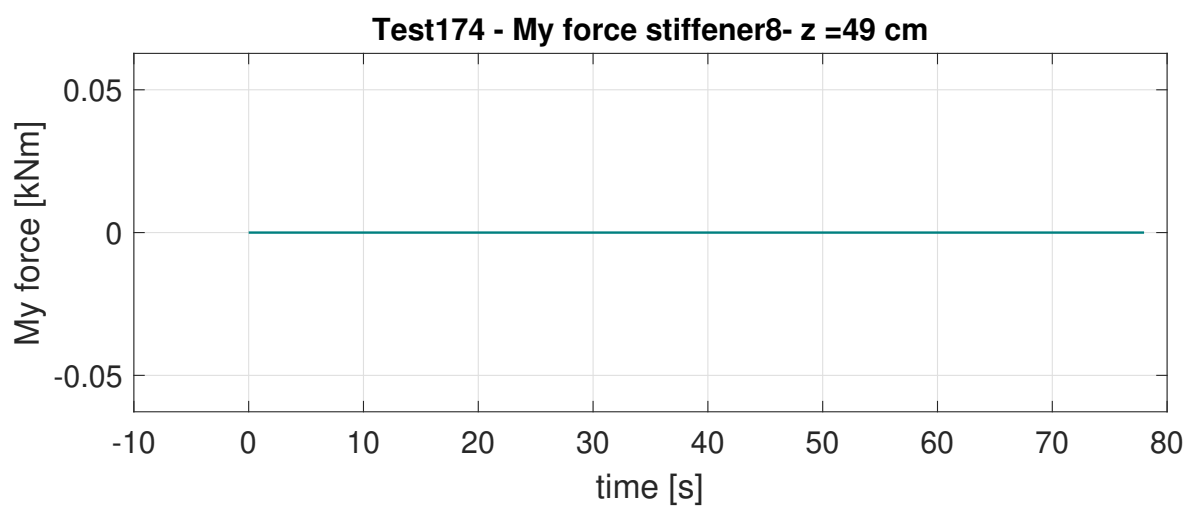
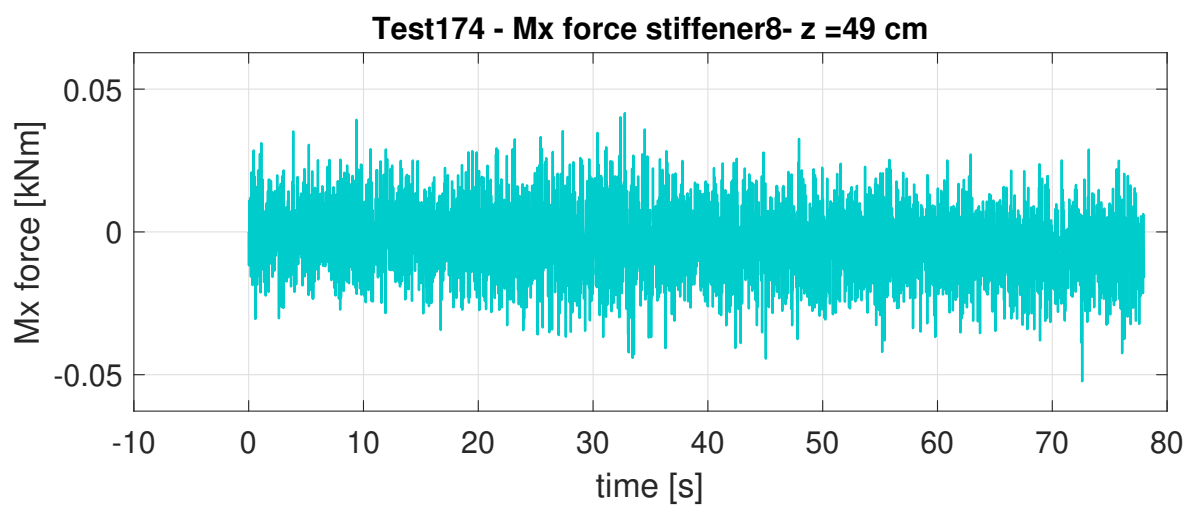
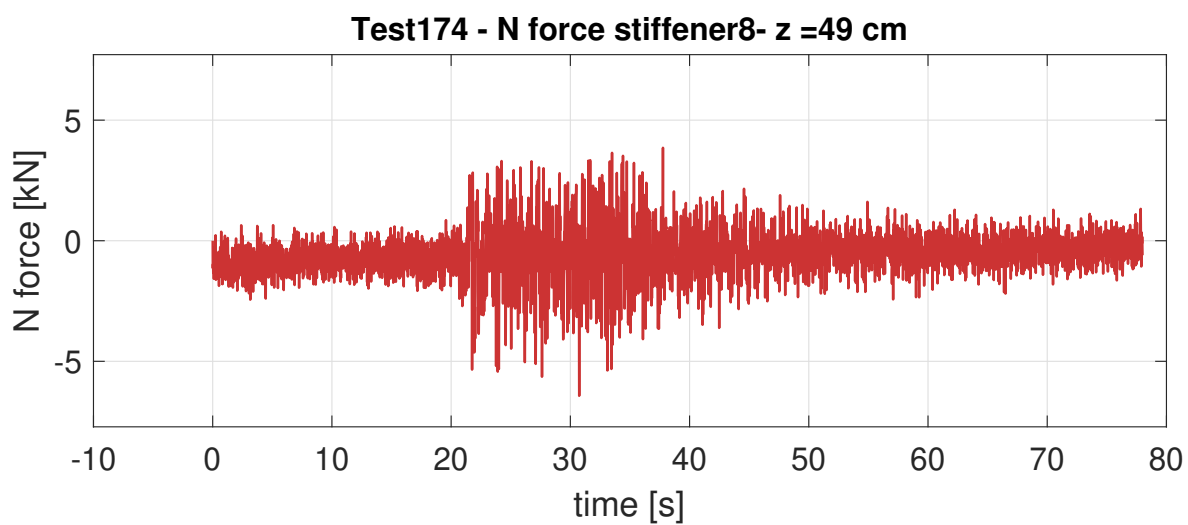


Quota z = 49 cm

– Montante numero 7

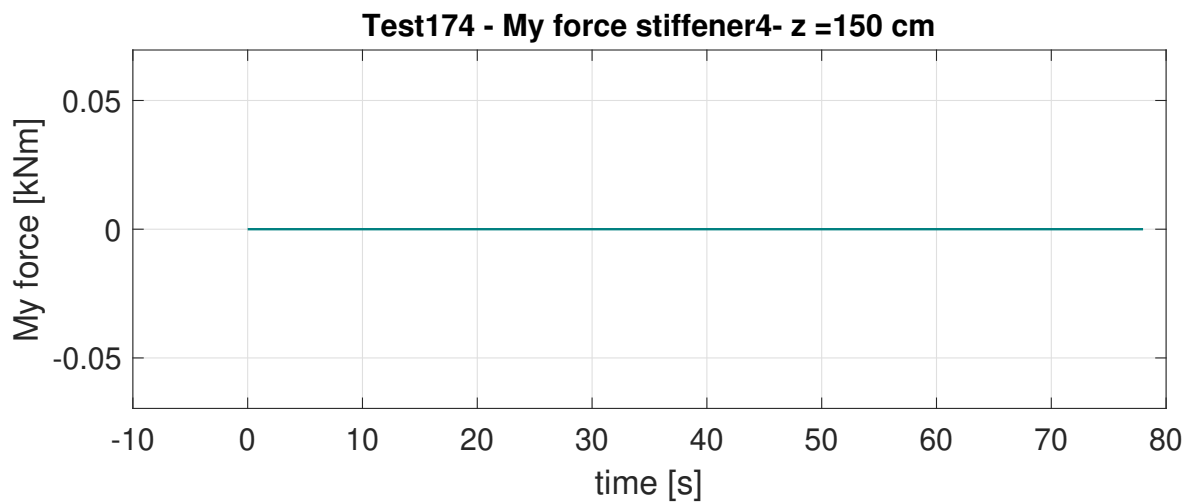
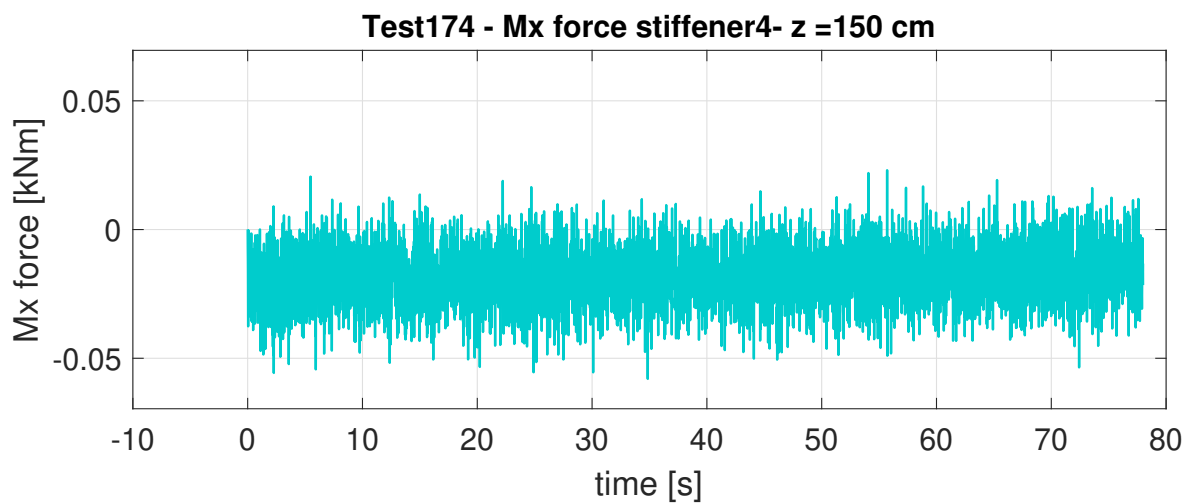
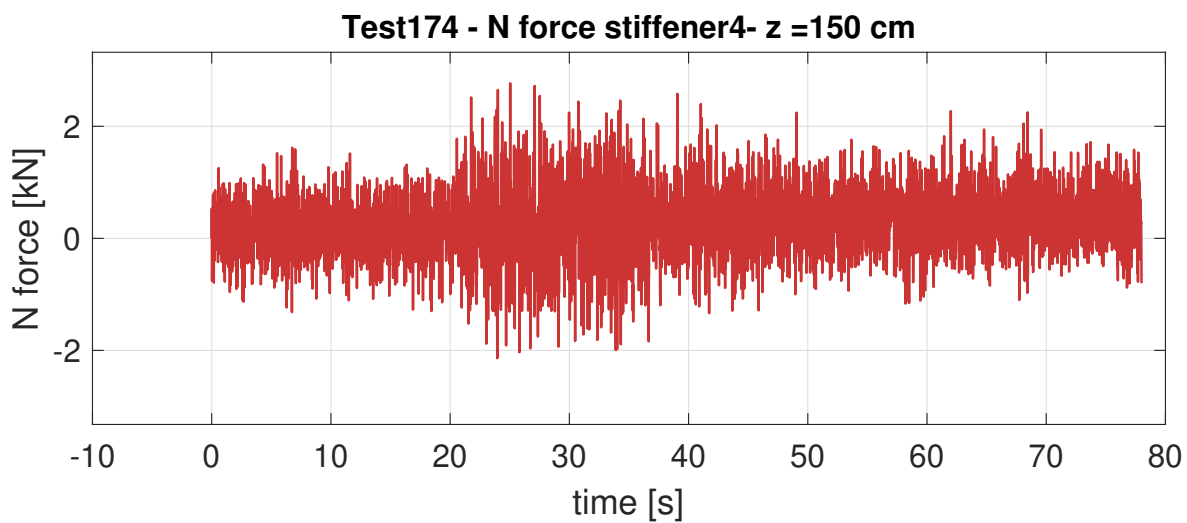


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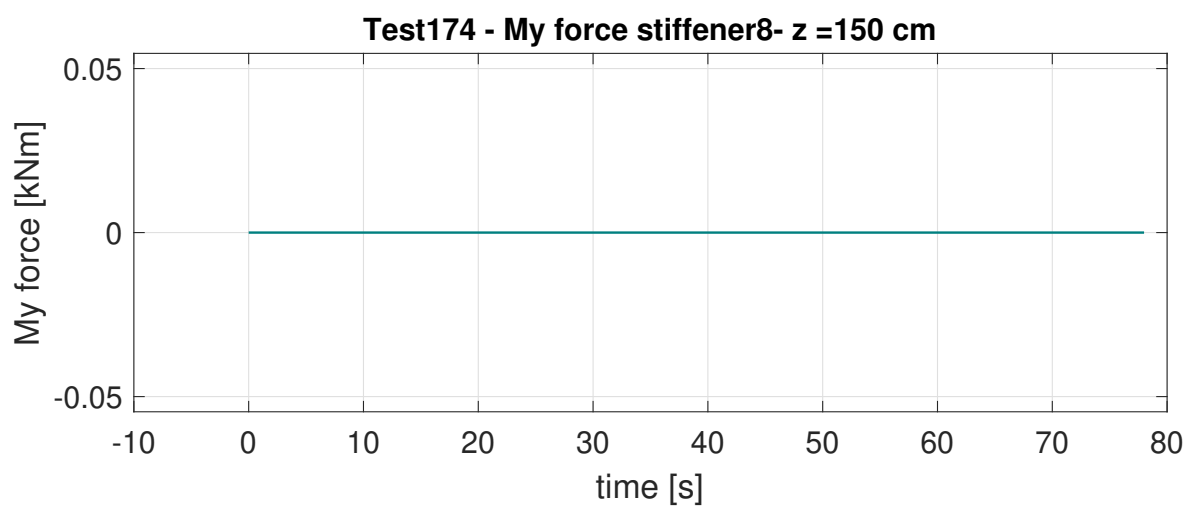
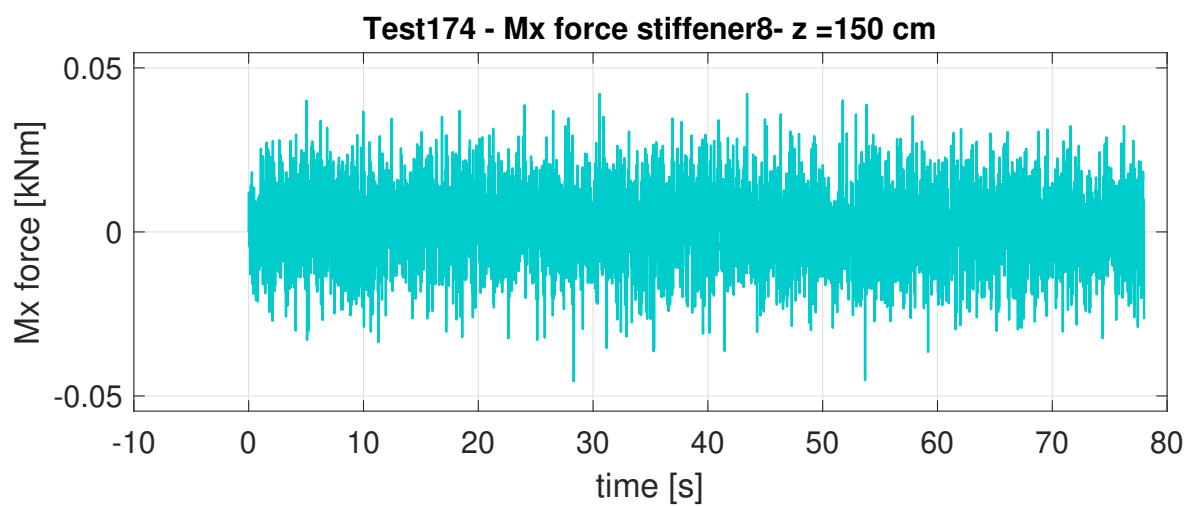
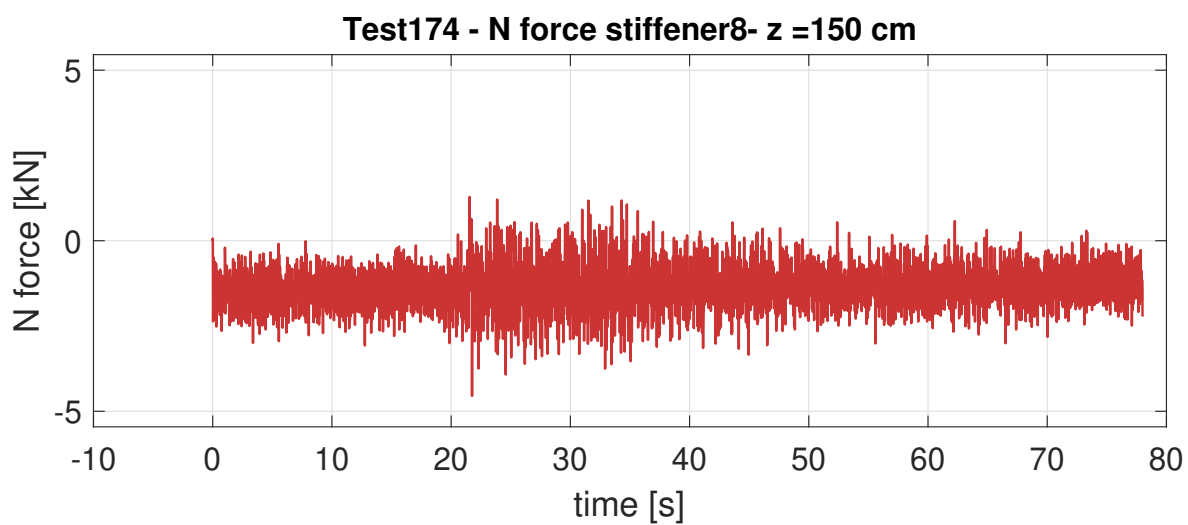


Quota z = 150 cm

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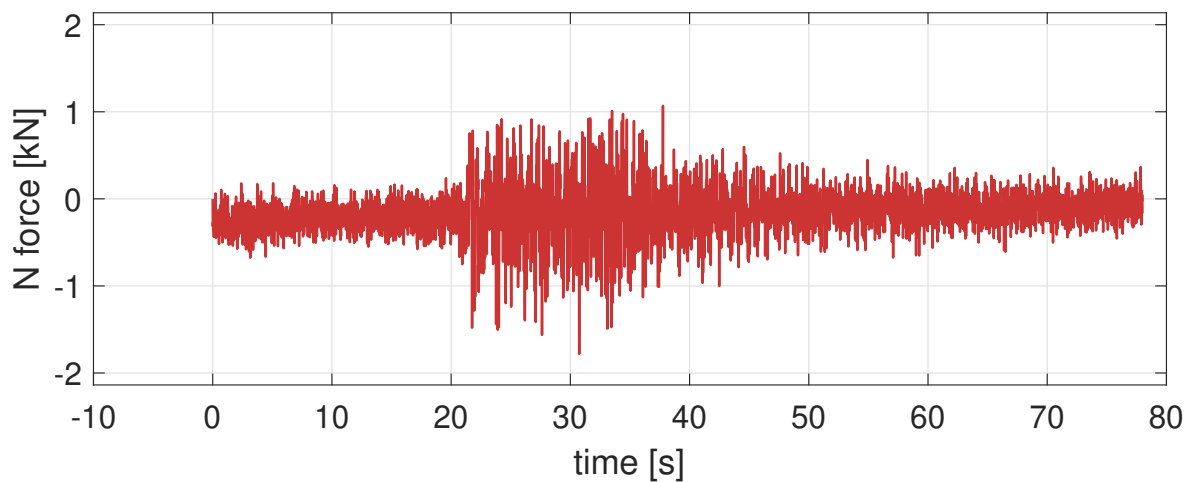
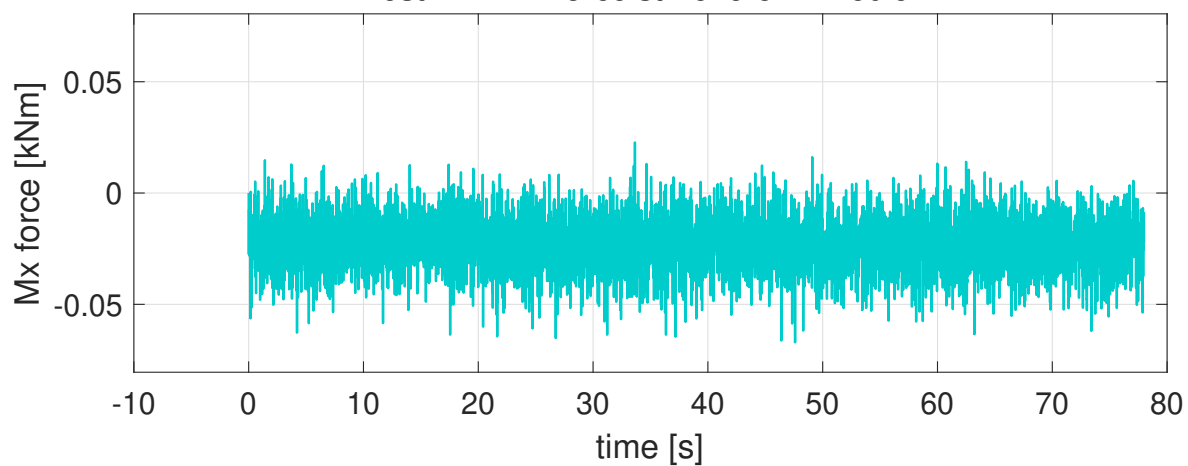
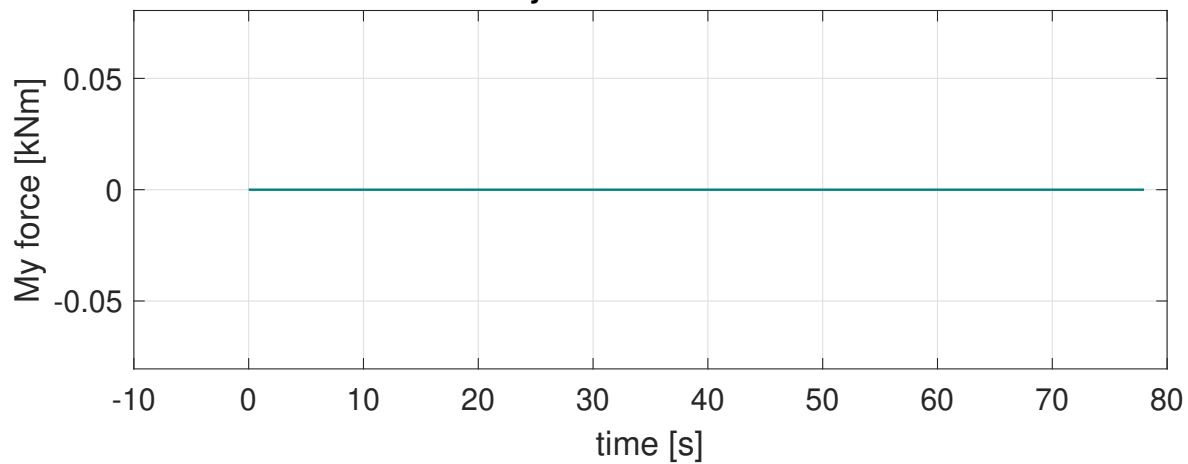


- Montante numero 8



Quota z = 250 cm

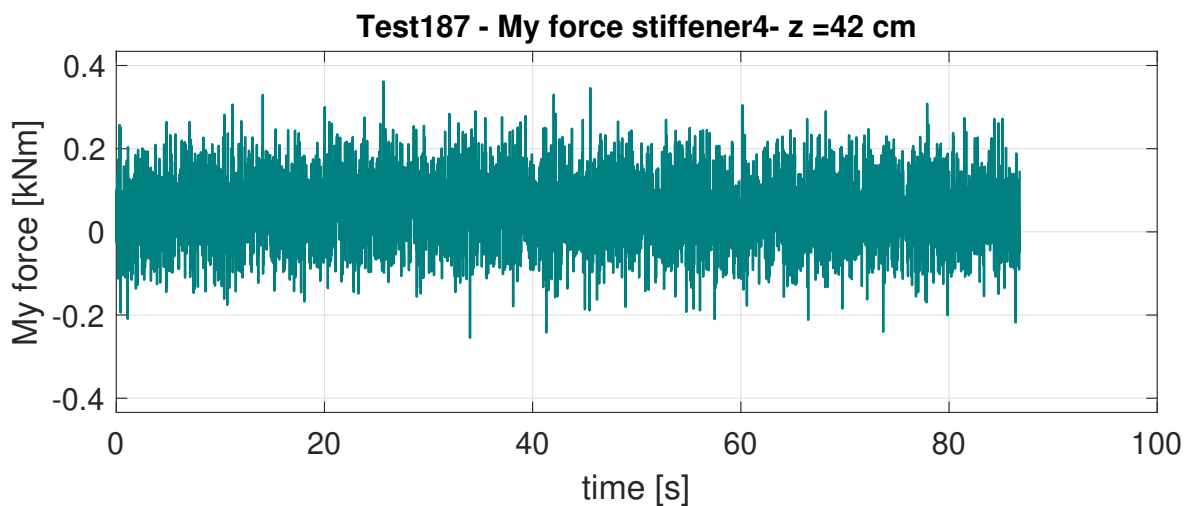
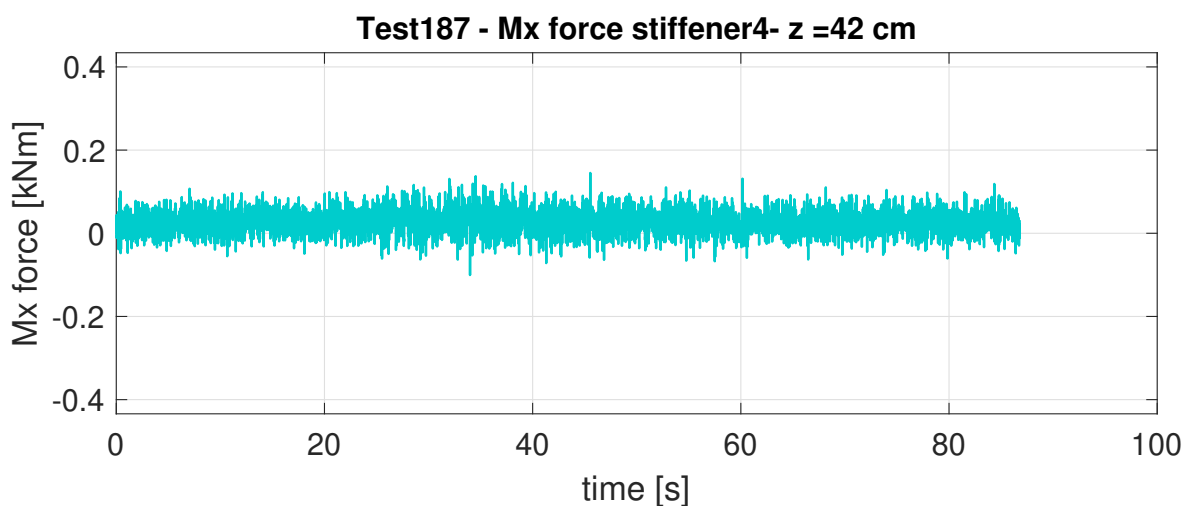
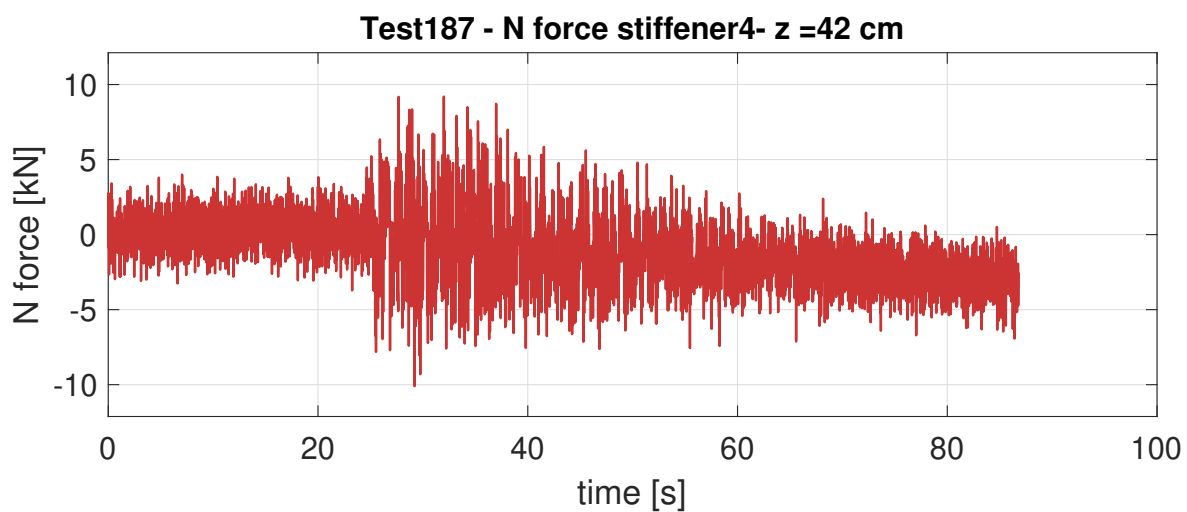
– Montante numero 8

Test174 - N force stiffener8- z =250 cm**Test174 - Mx force stiffener8- z =250 cm****Test174 - My force stiffener8- z =250 cm**

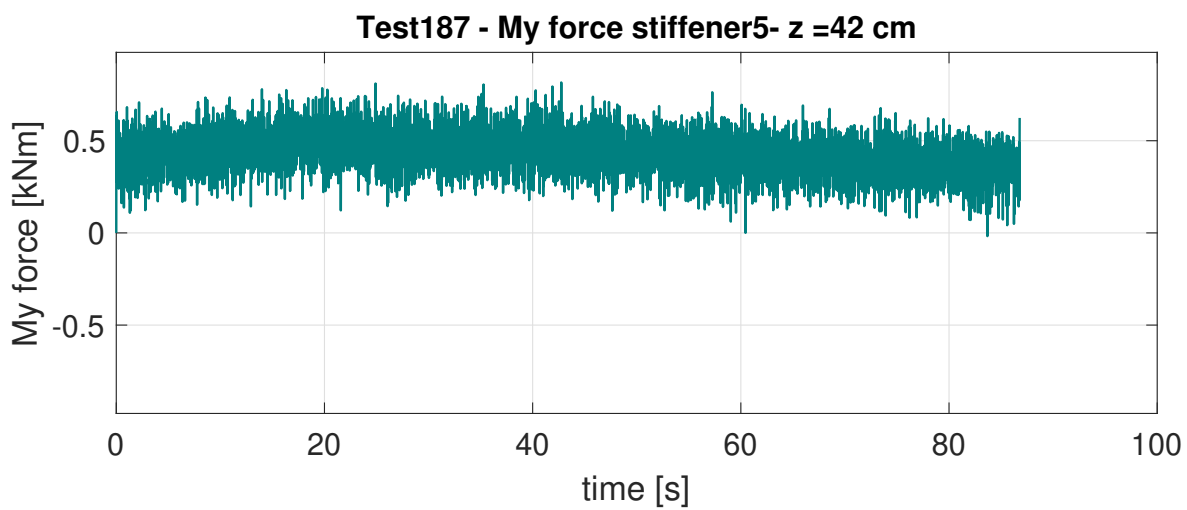
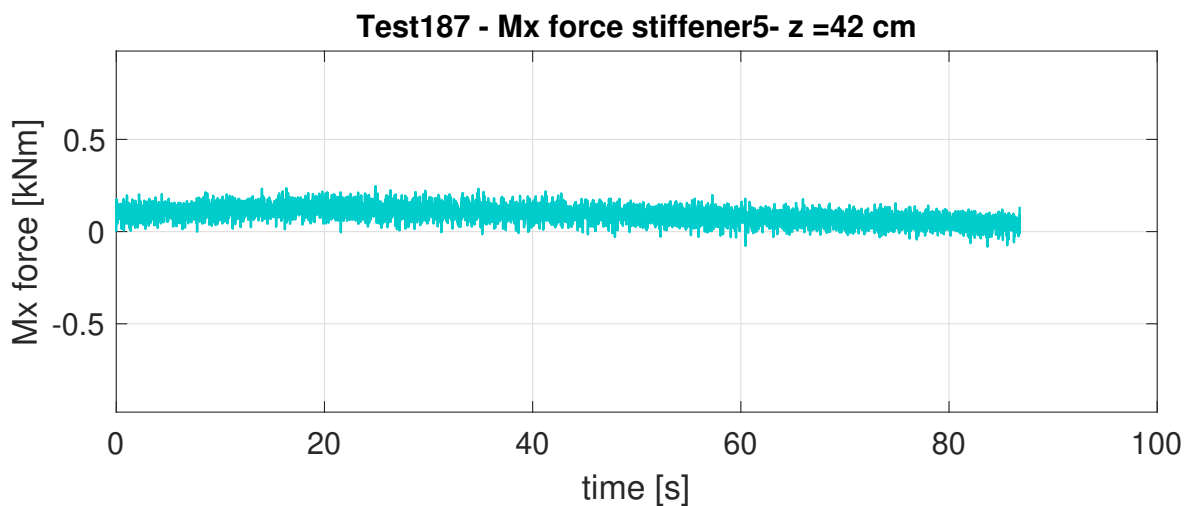
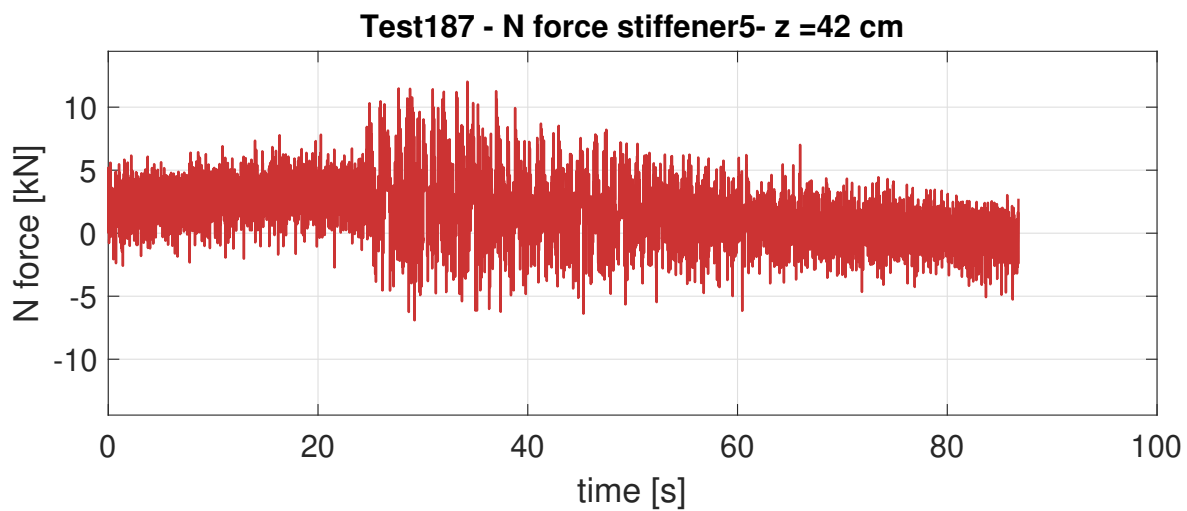
- Terremoto A1 0.3 g

Quota z = 42 cm

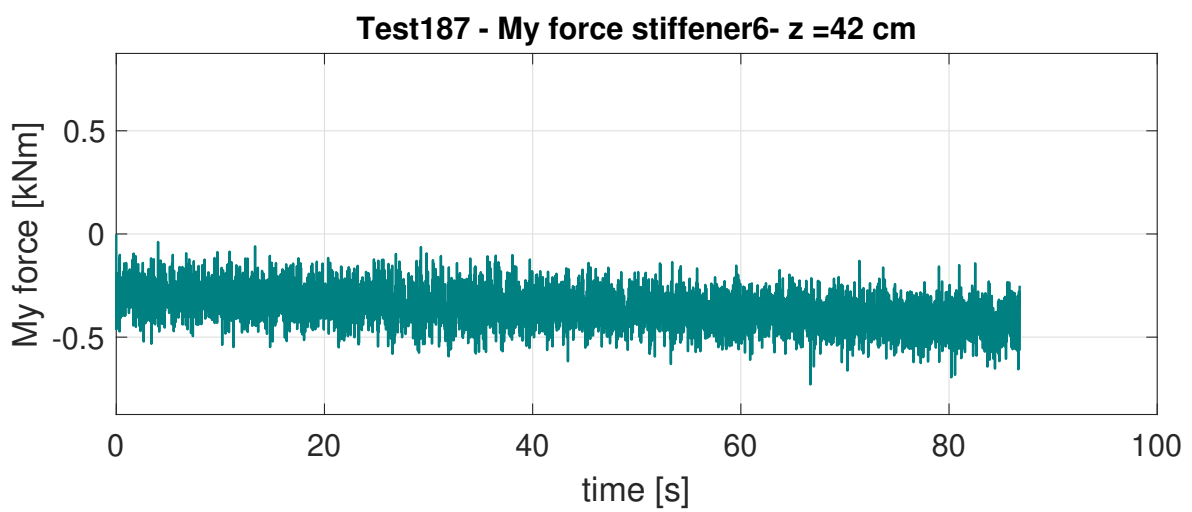
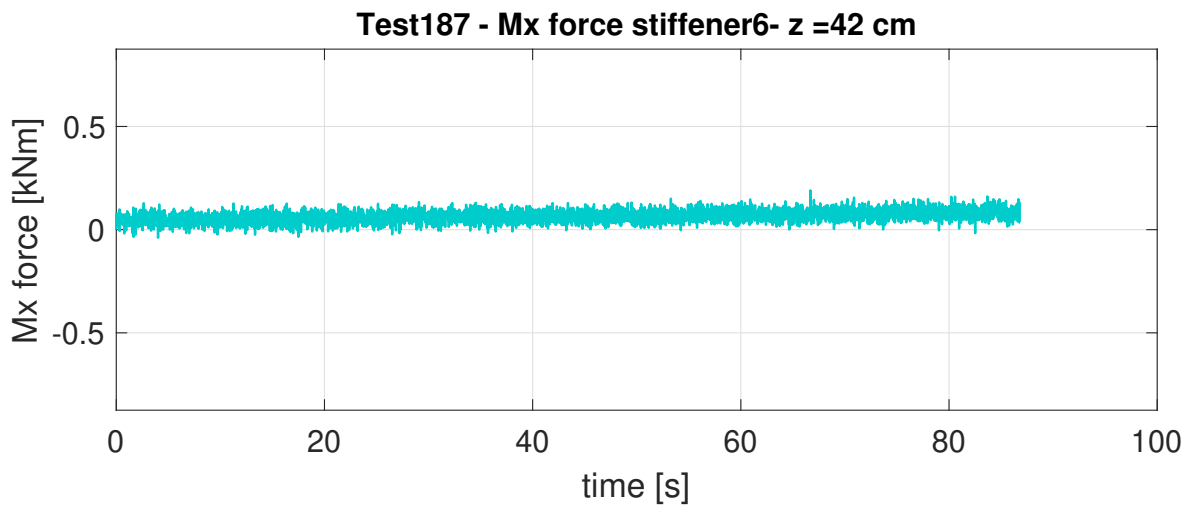
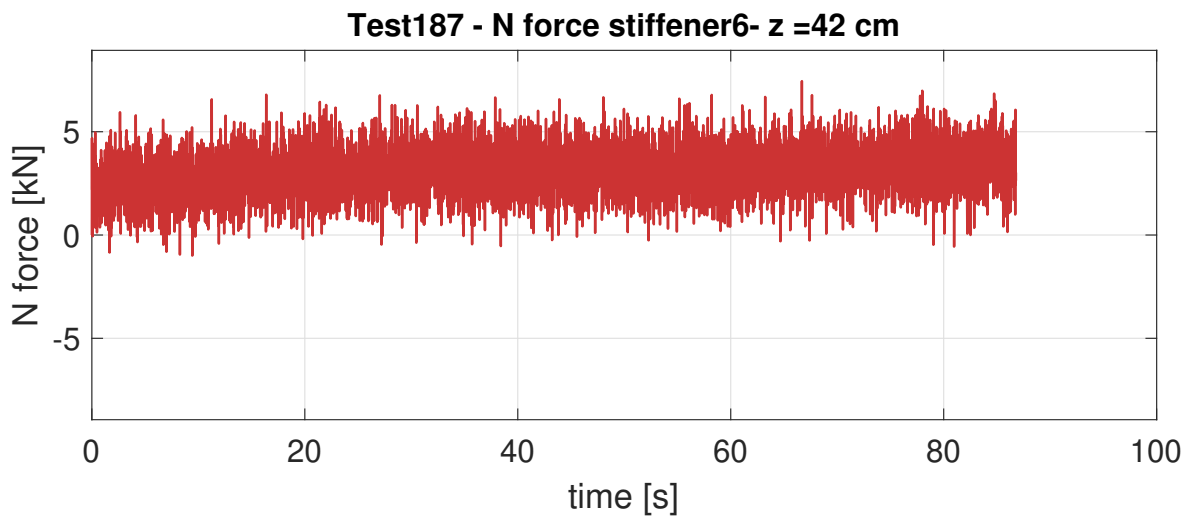
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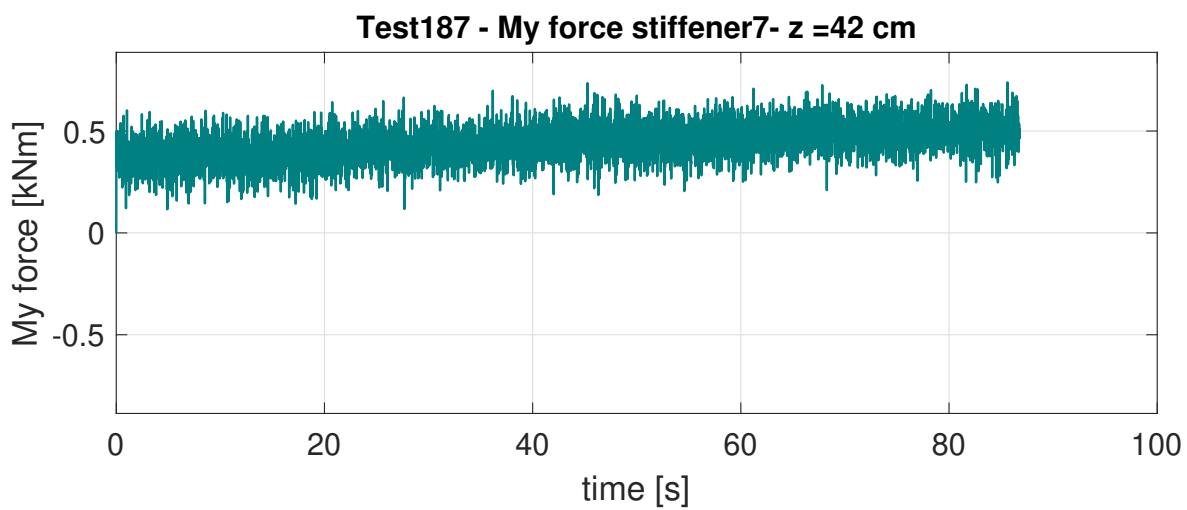
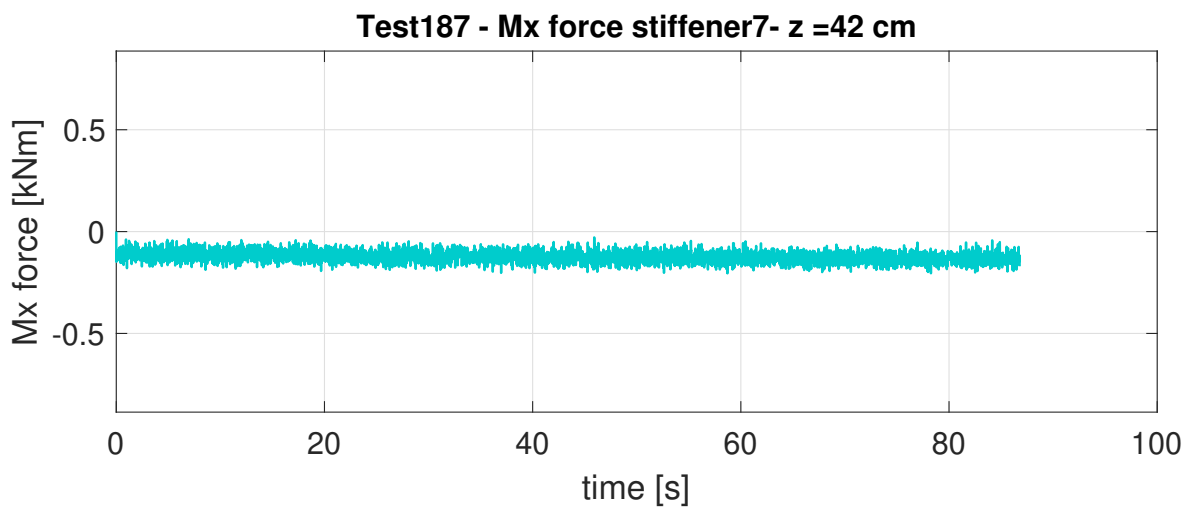
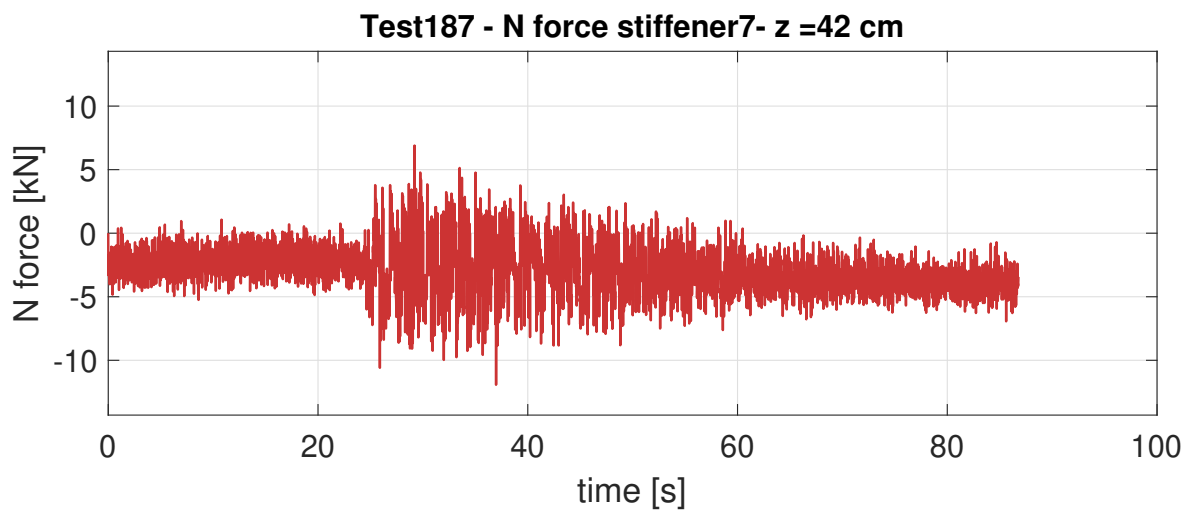
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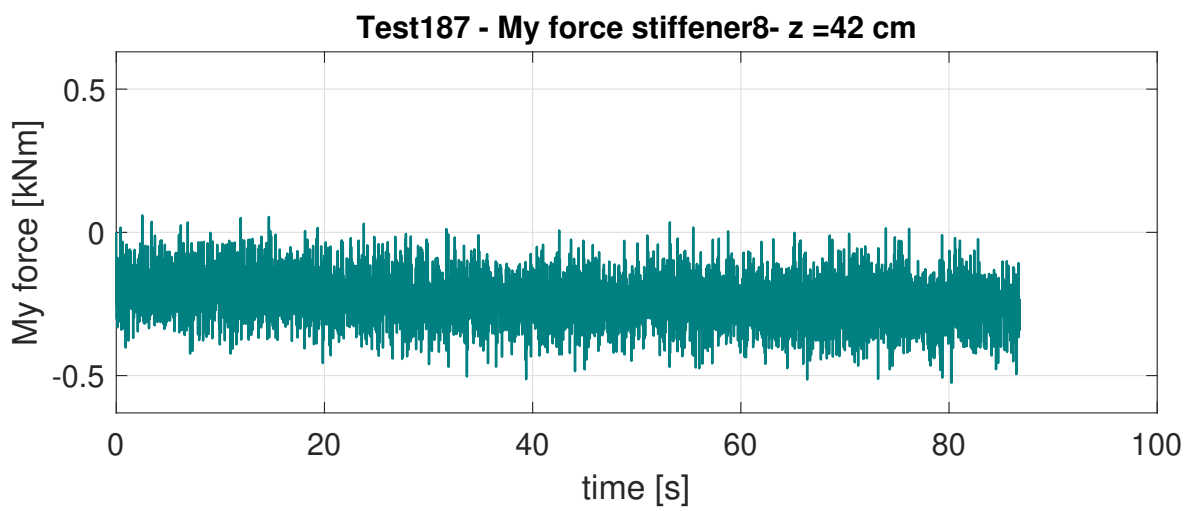
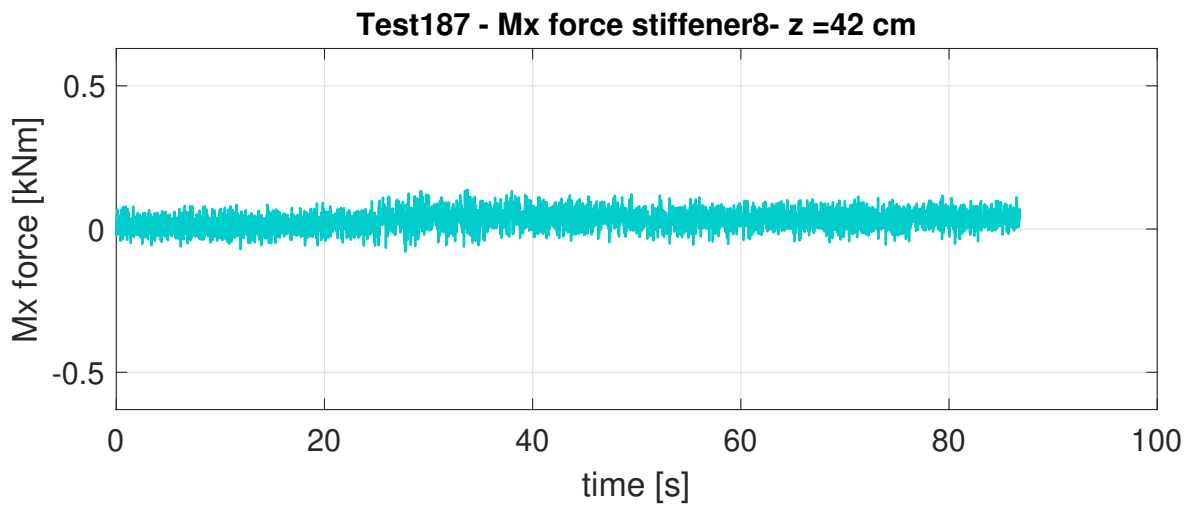
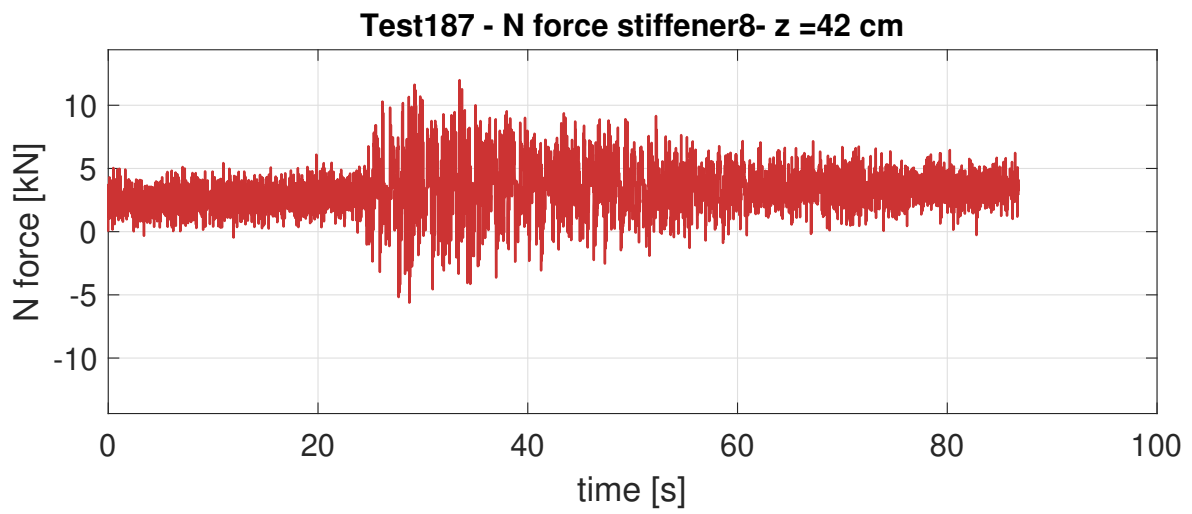
- Montante numero 6



- Montante numero 7

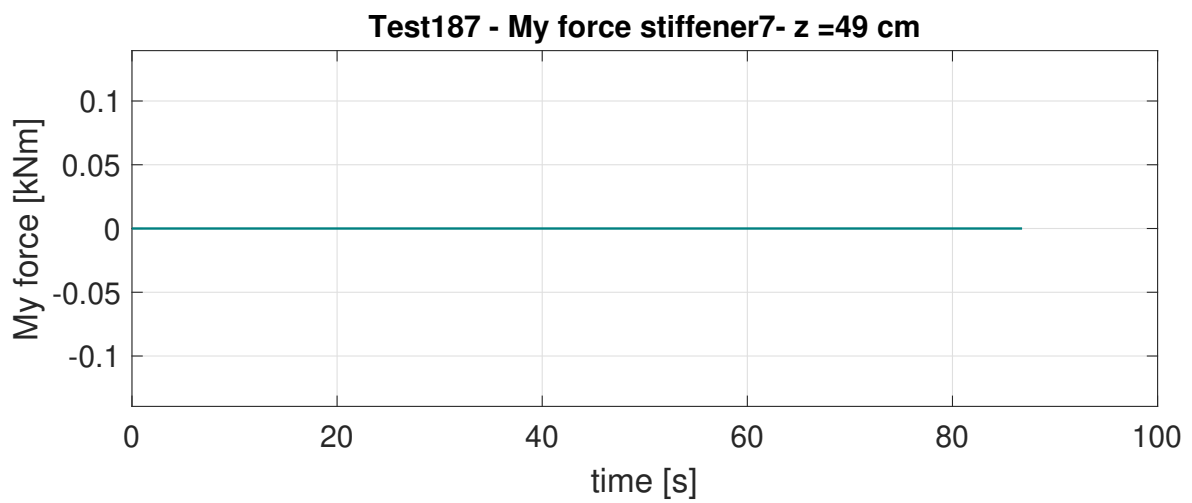
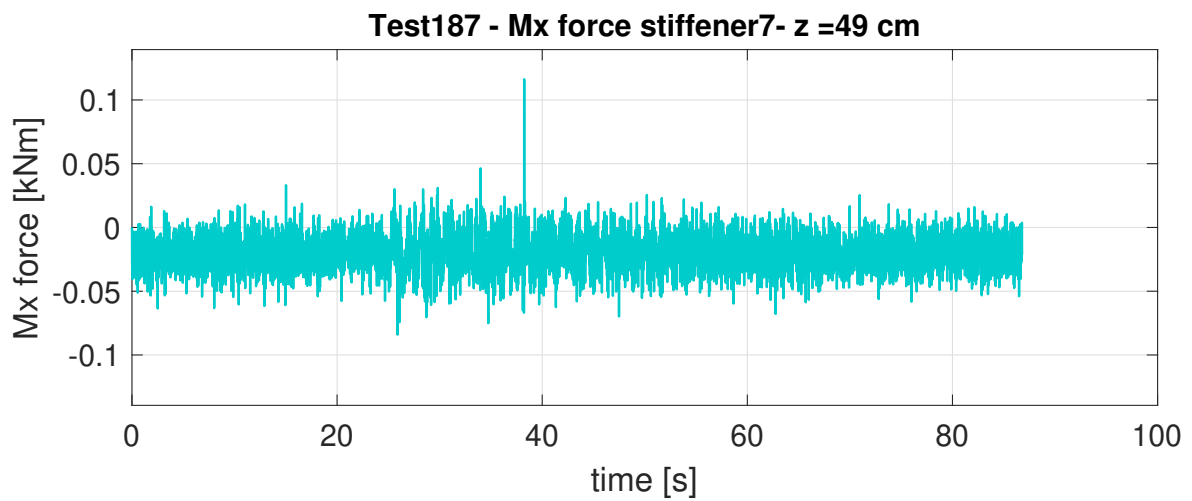
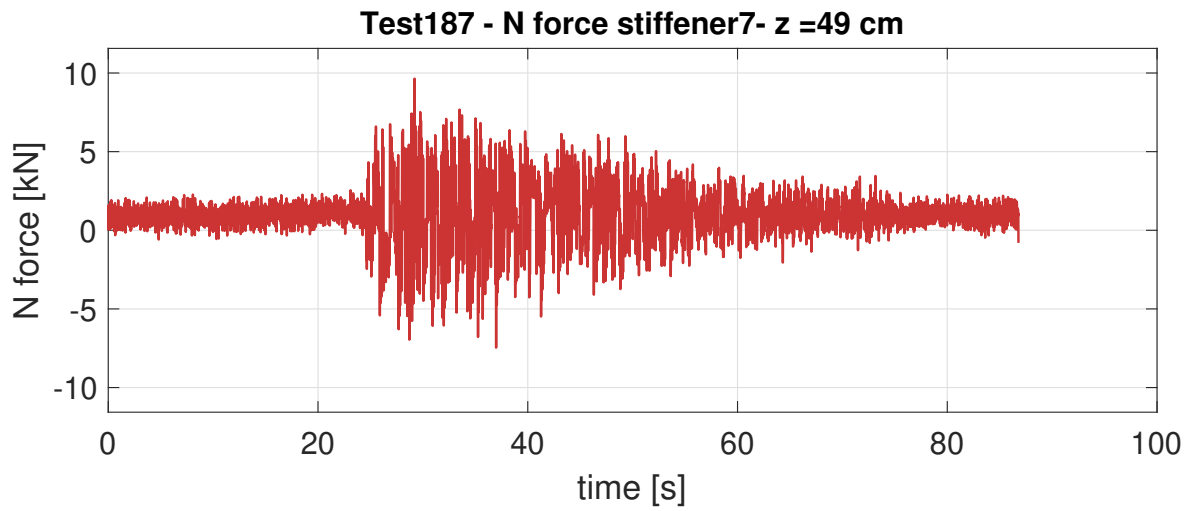


- Montante numero 8

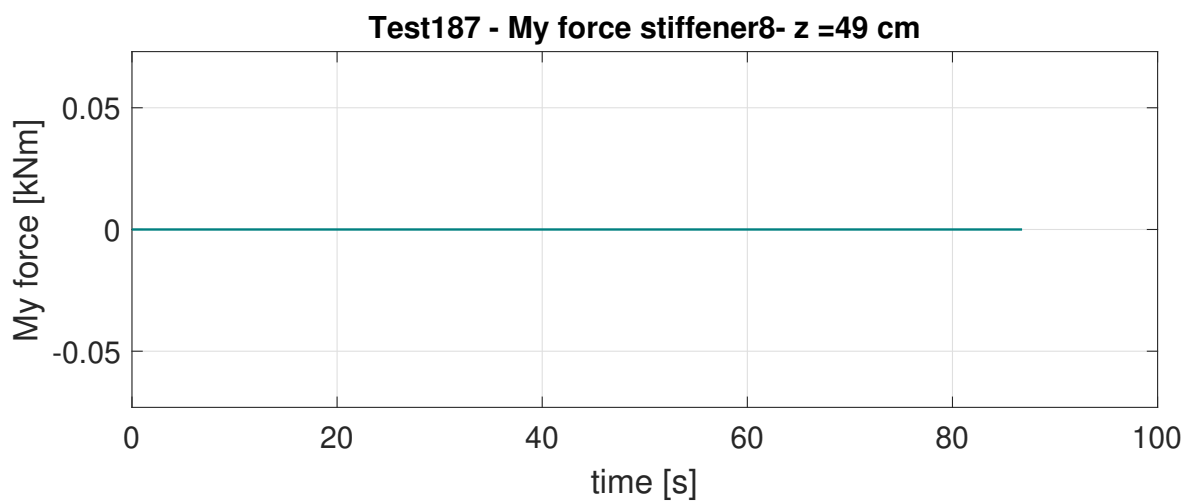
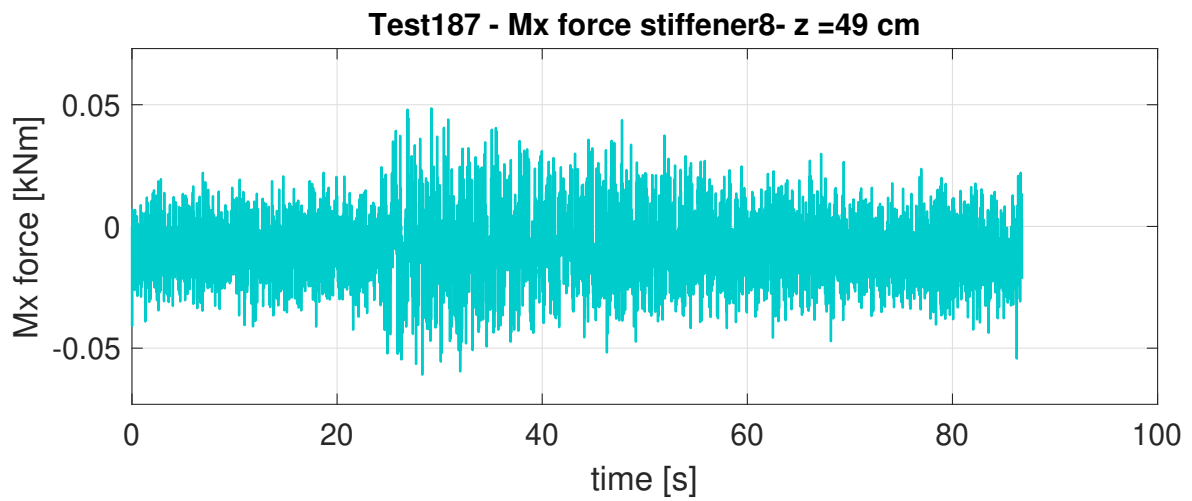
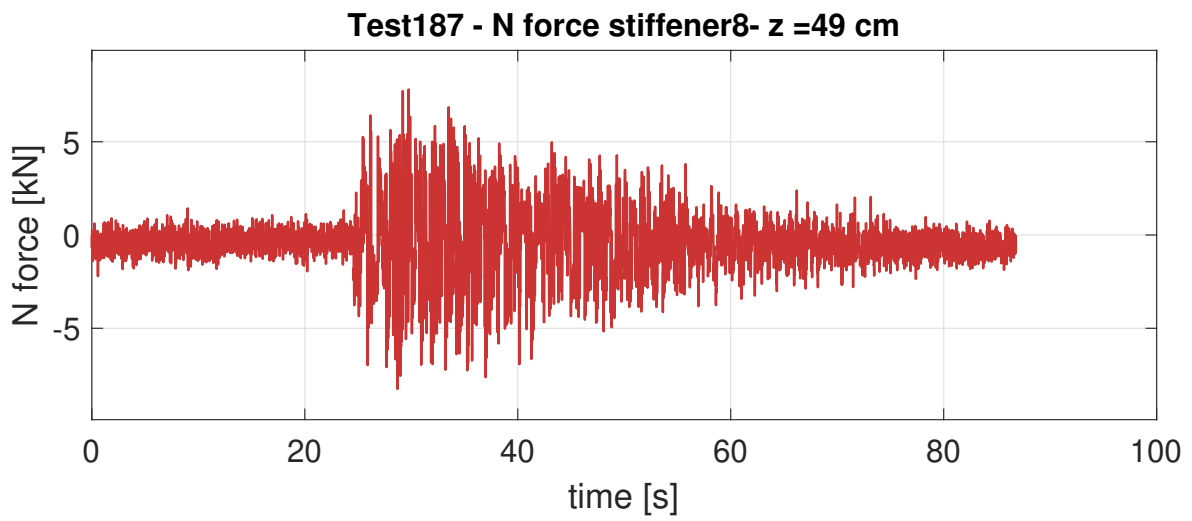


Quota z = 49 cm

– Montante numero 7

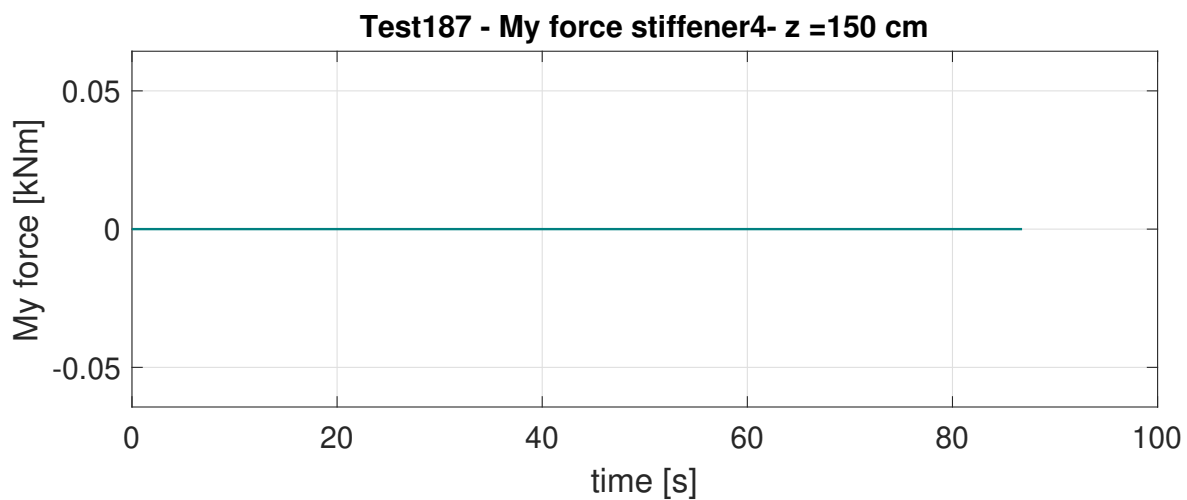
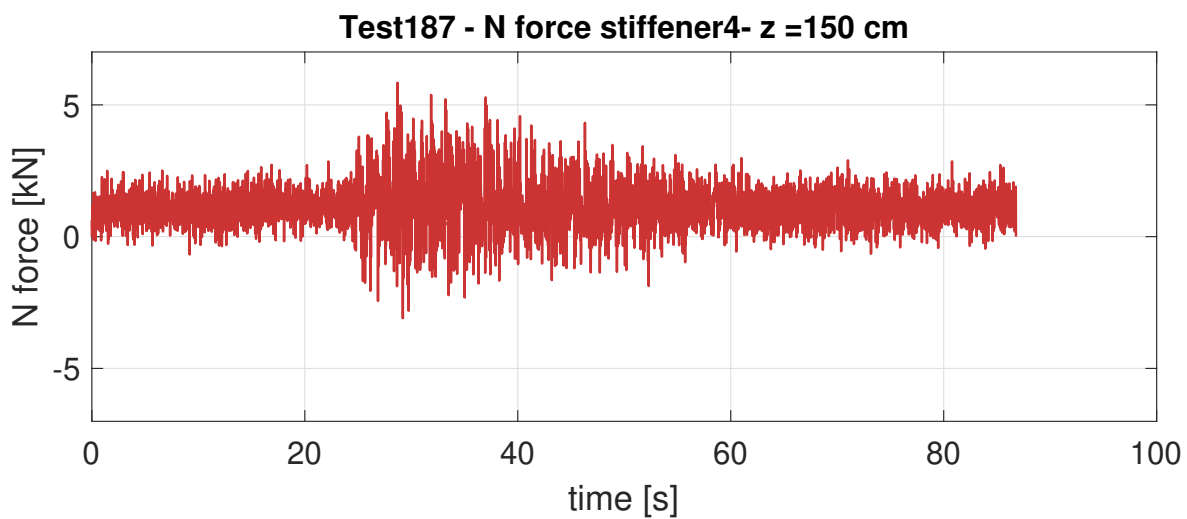


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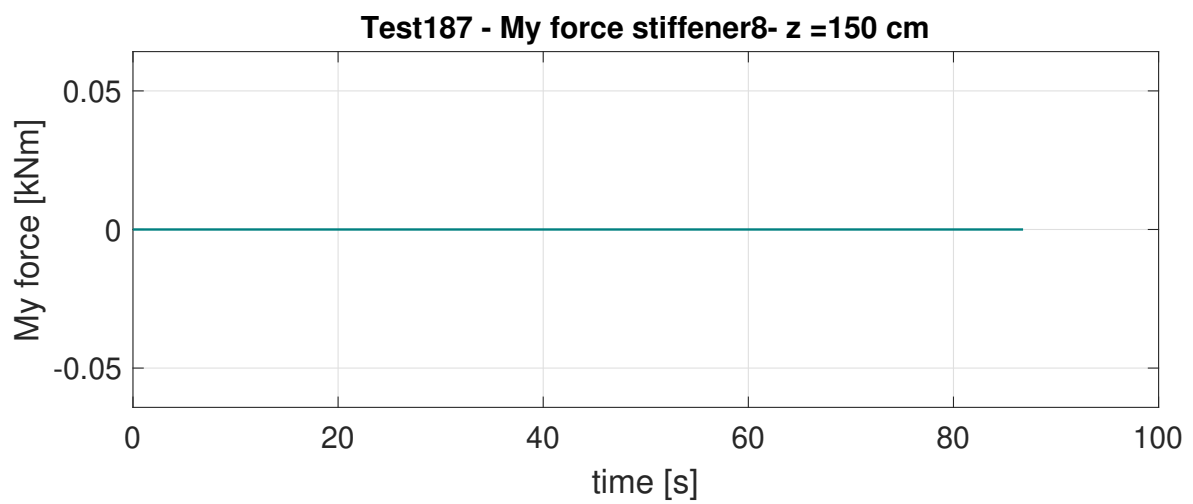
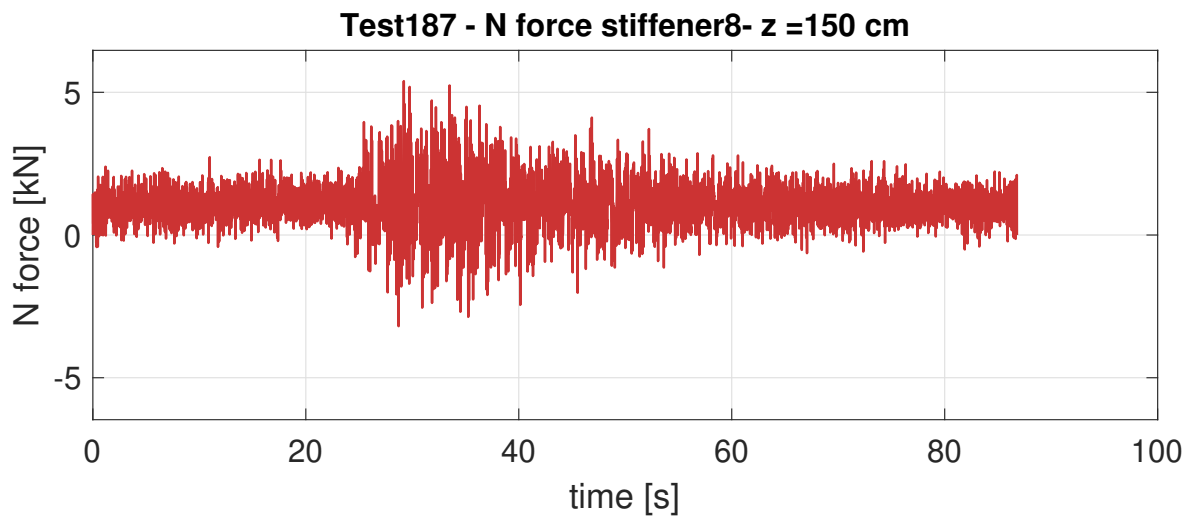


Quota z = 150 cm

– Montante numero 4

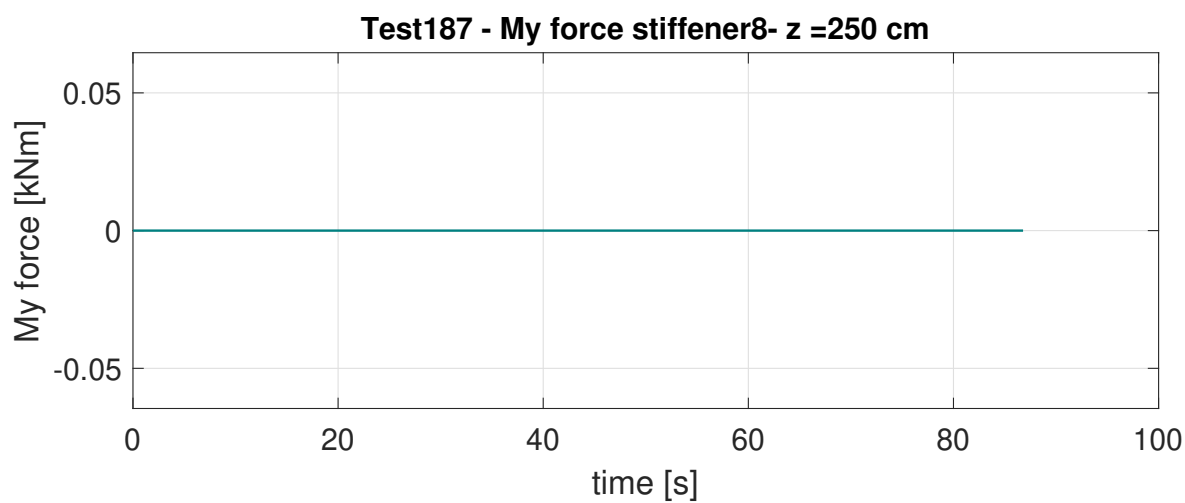
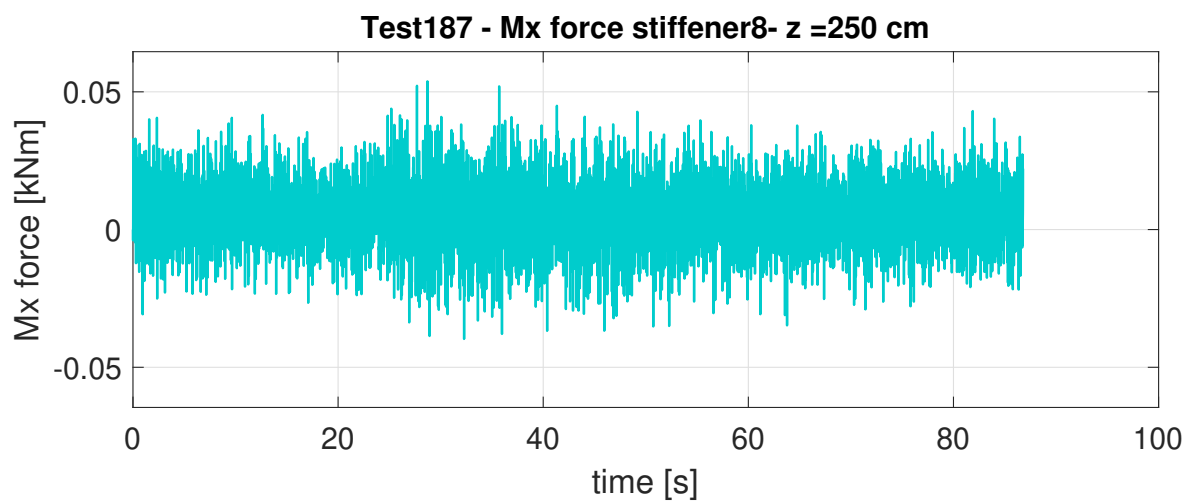
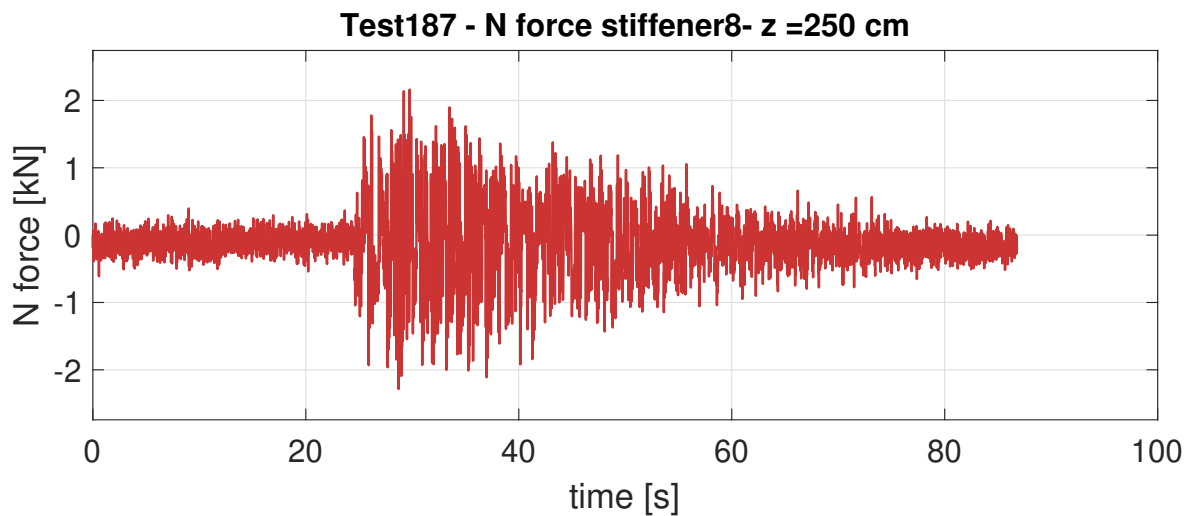


- Montante numero 8



Quota z = 250 cm

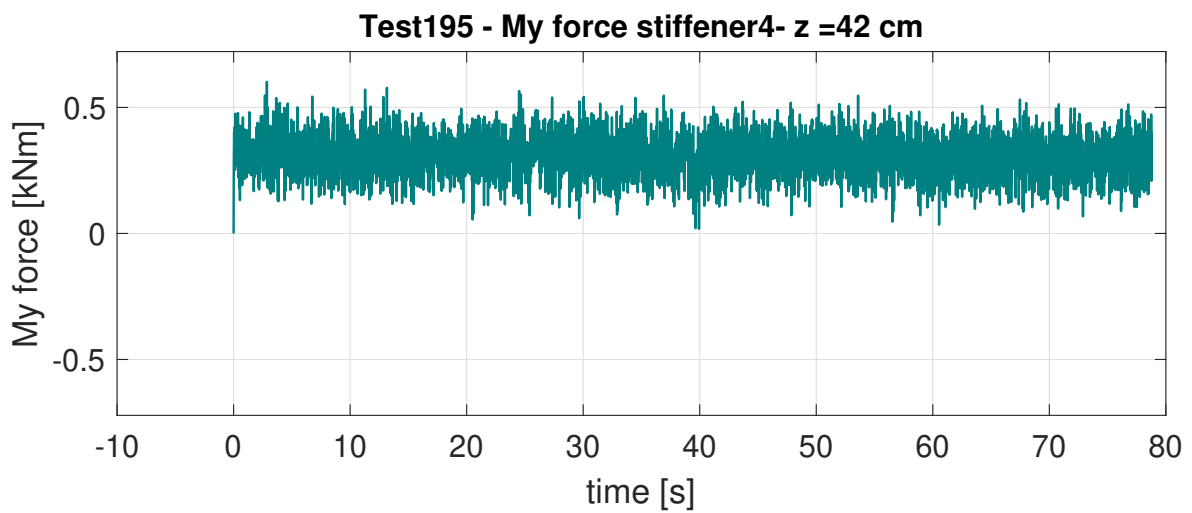
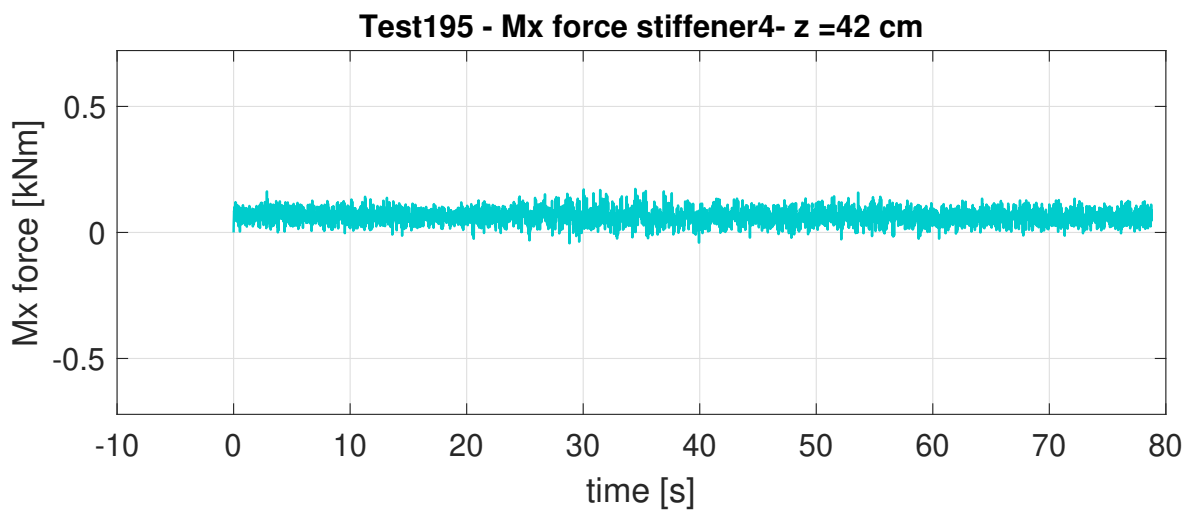
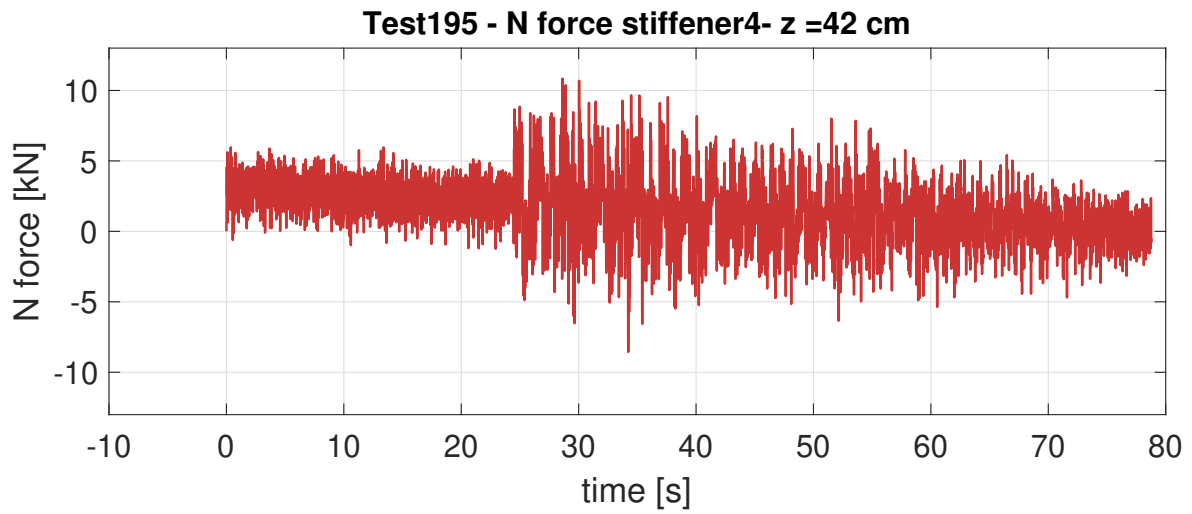
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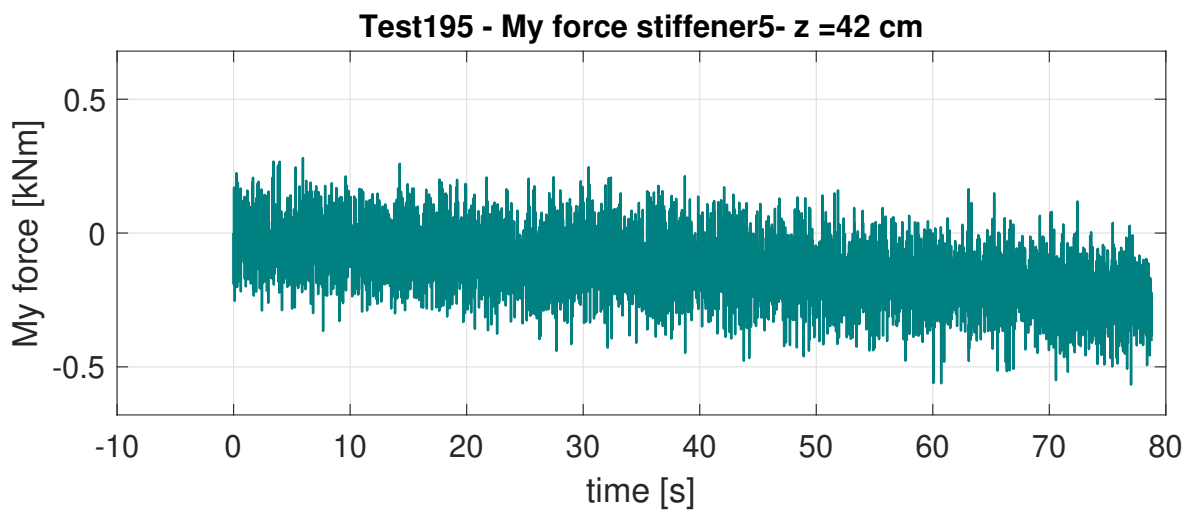
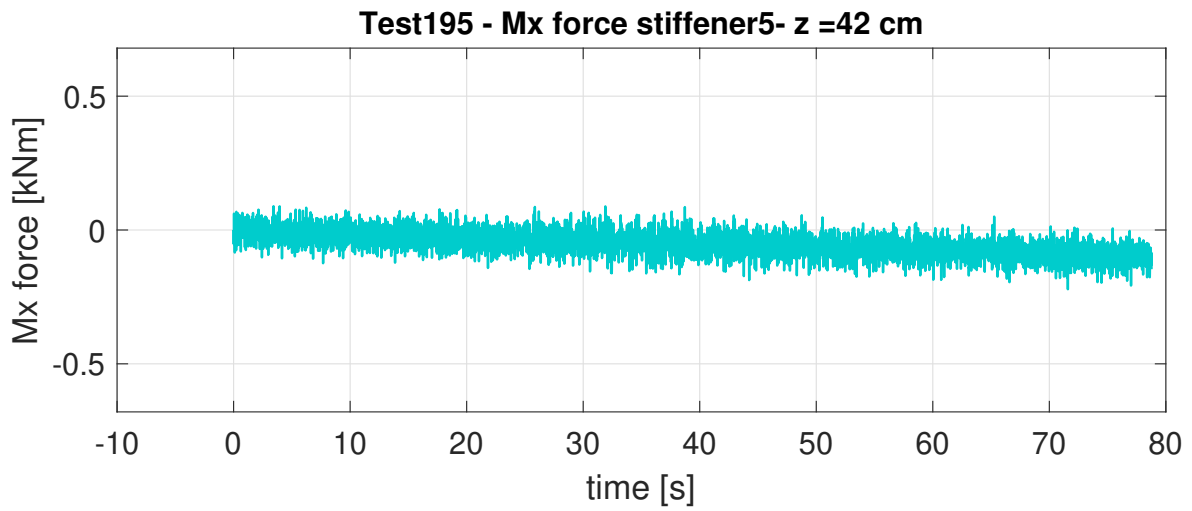
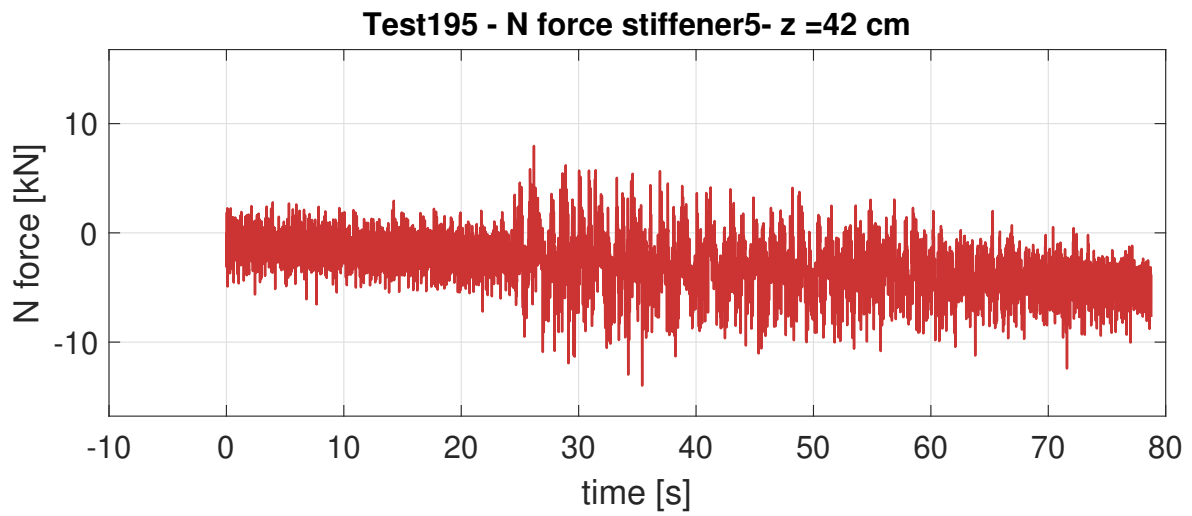
- Terremoto A1 0.5 g

Quota z = 42 cm

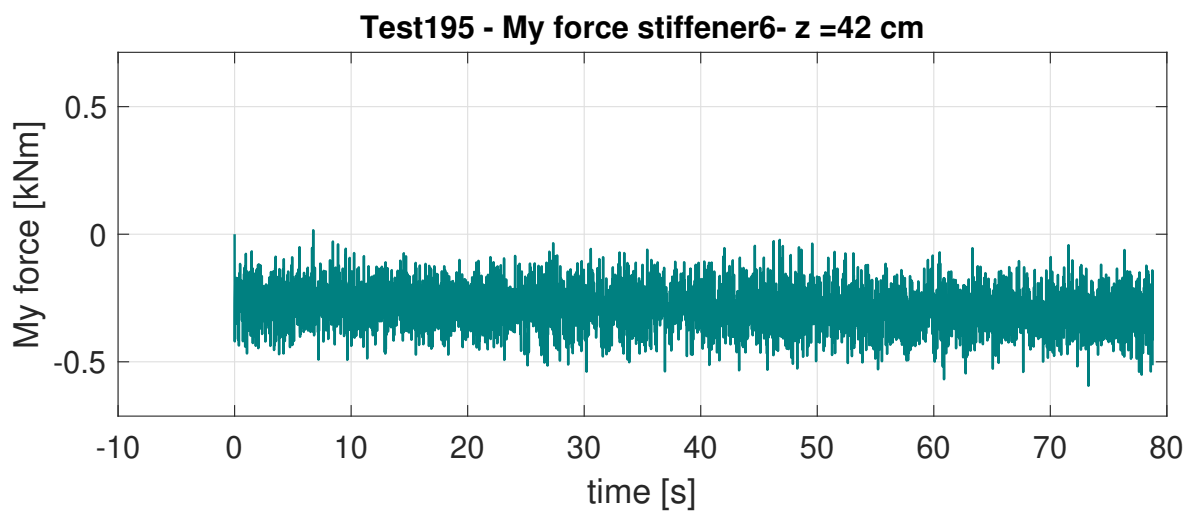
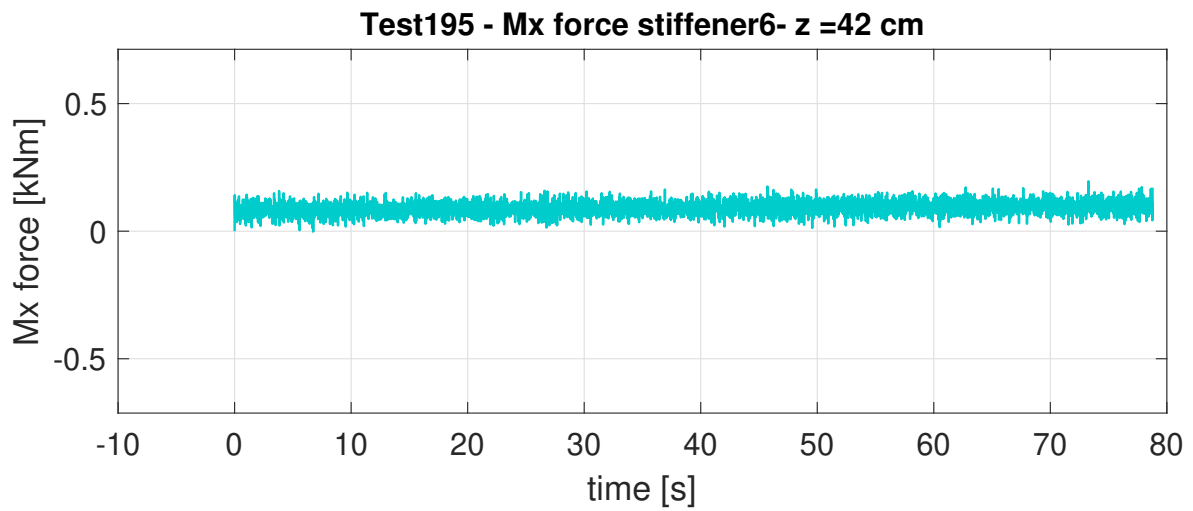
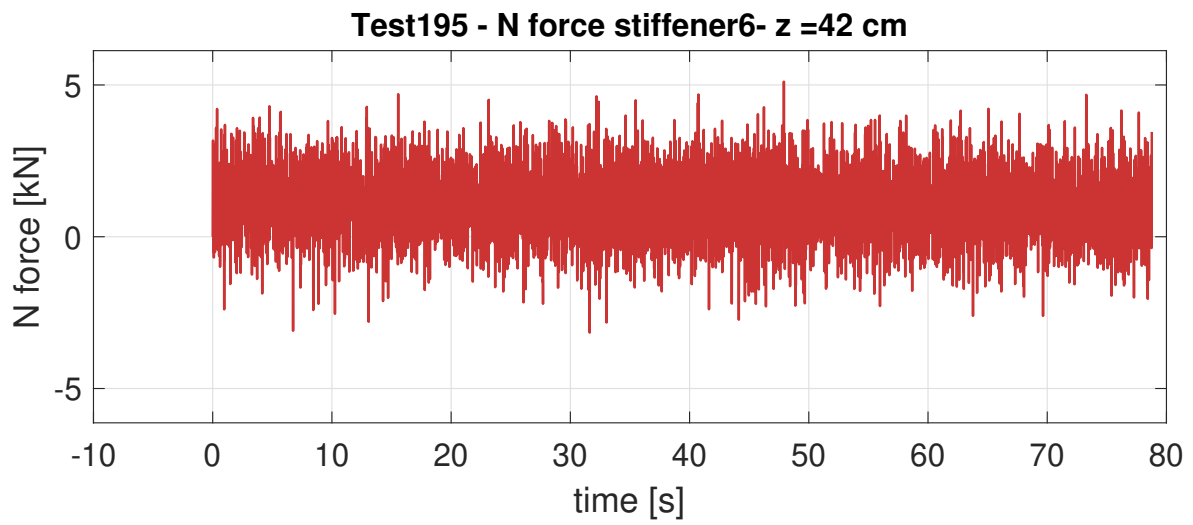
– Montante numero 4



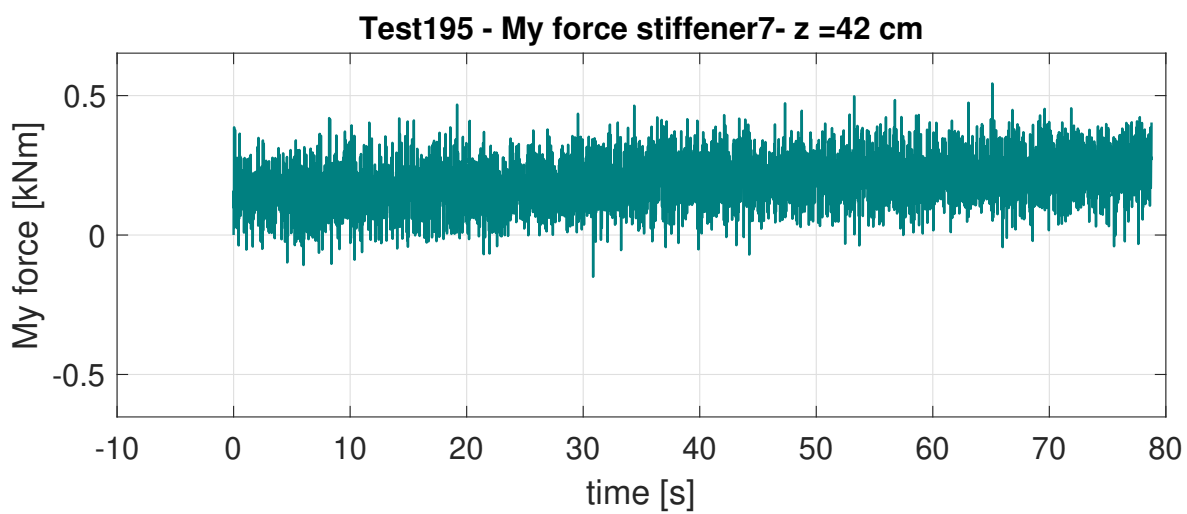
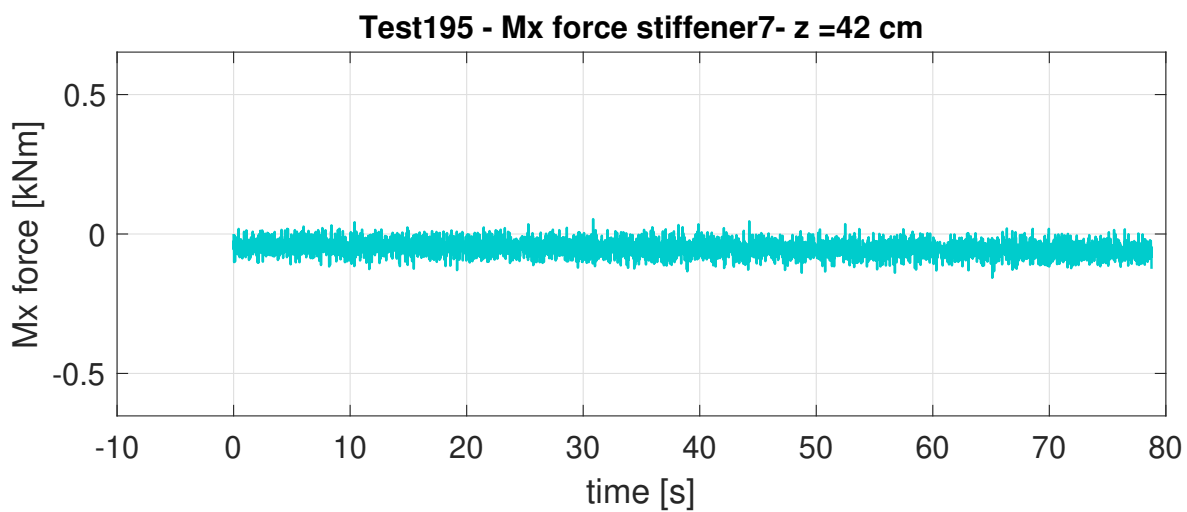
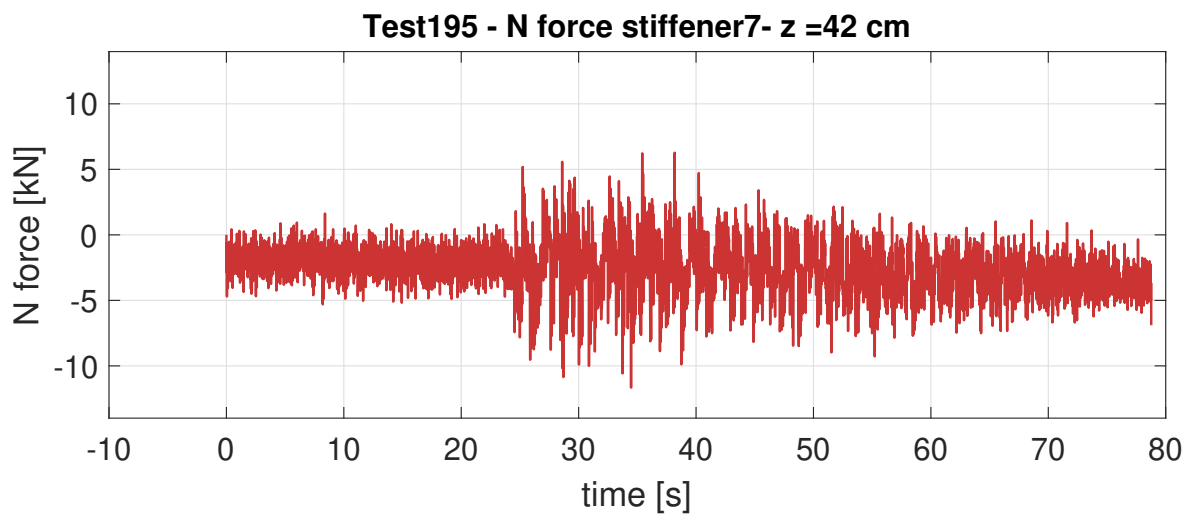
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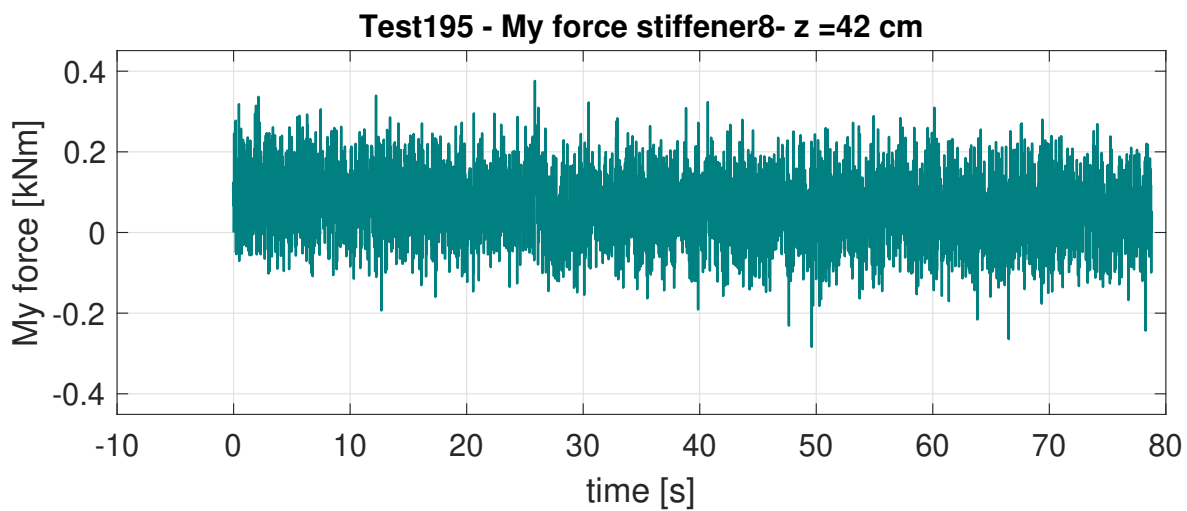
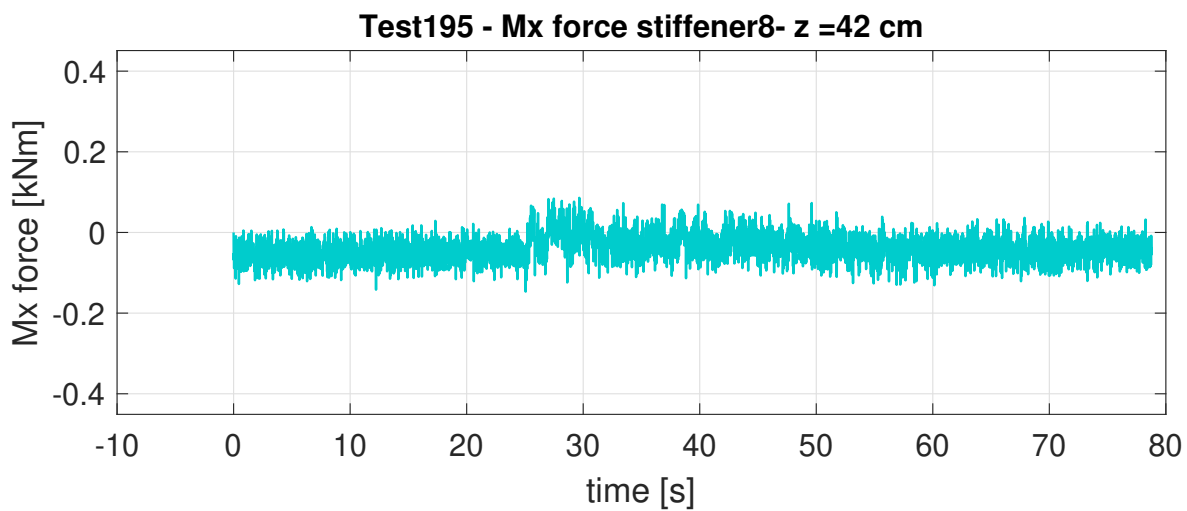
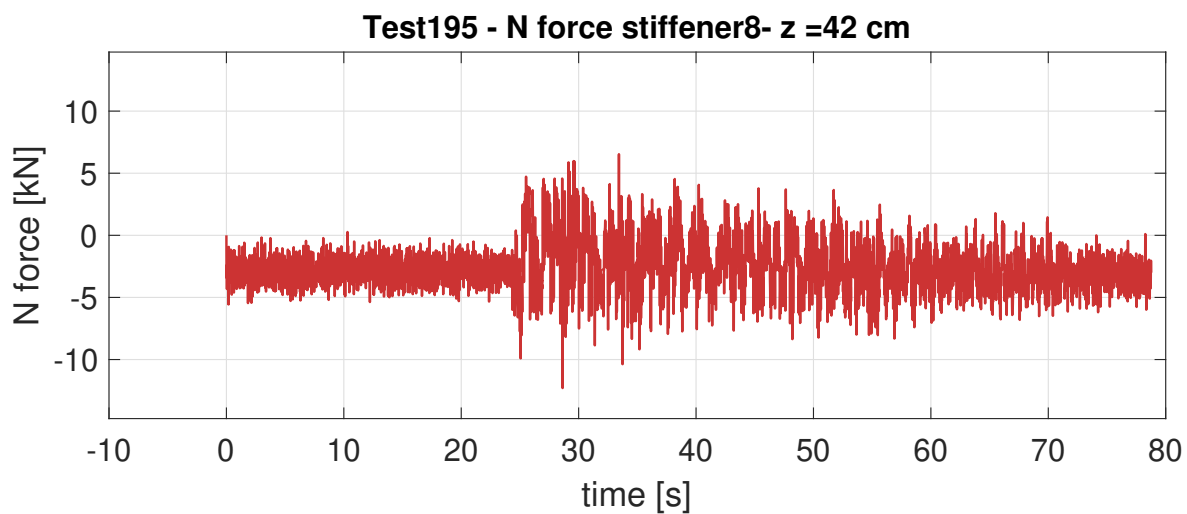
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- Montante numero 7

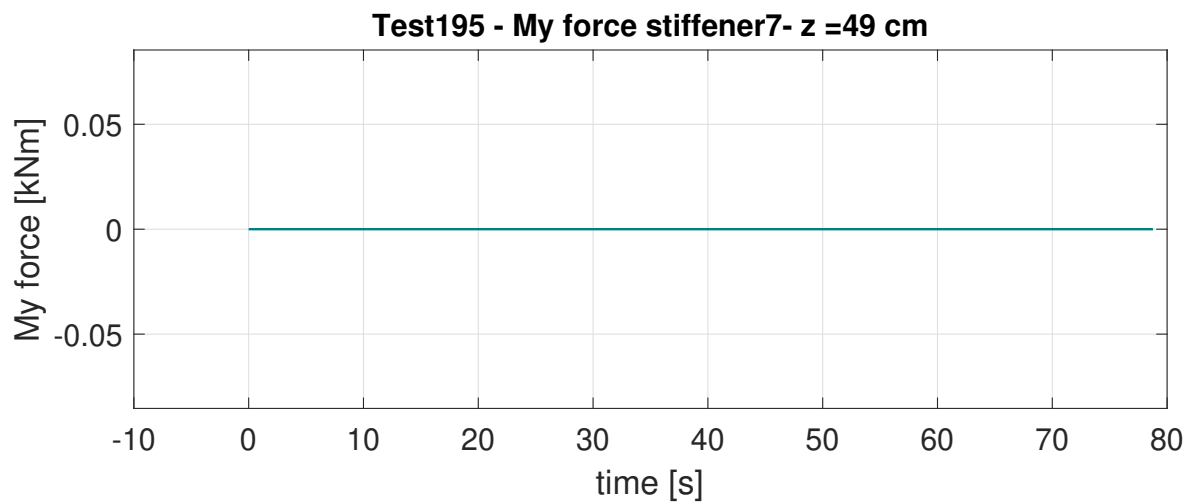
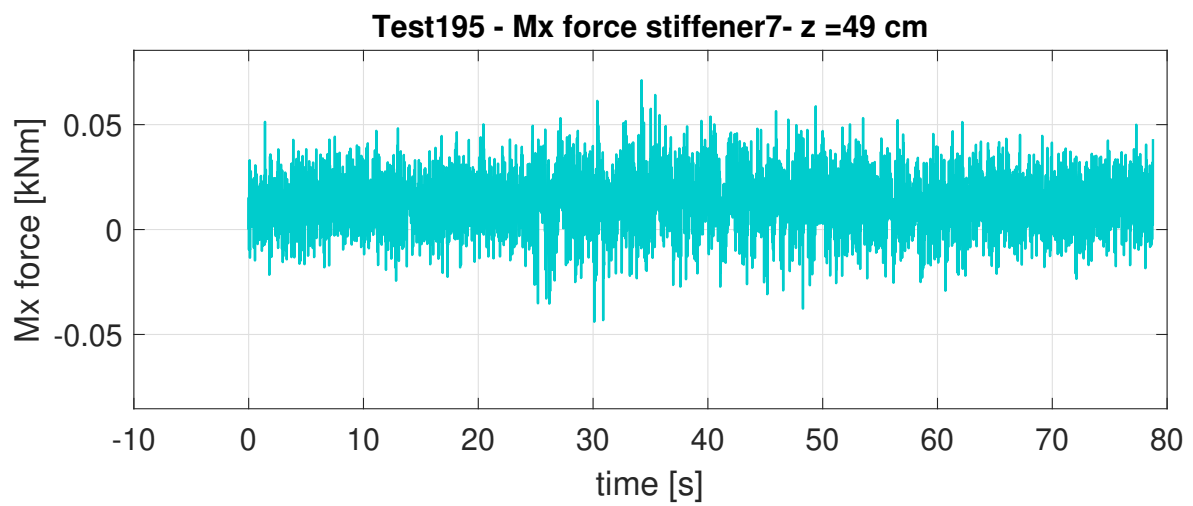
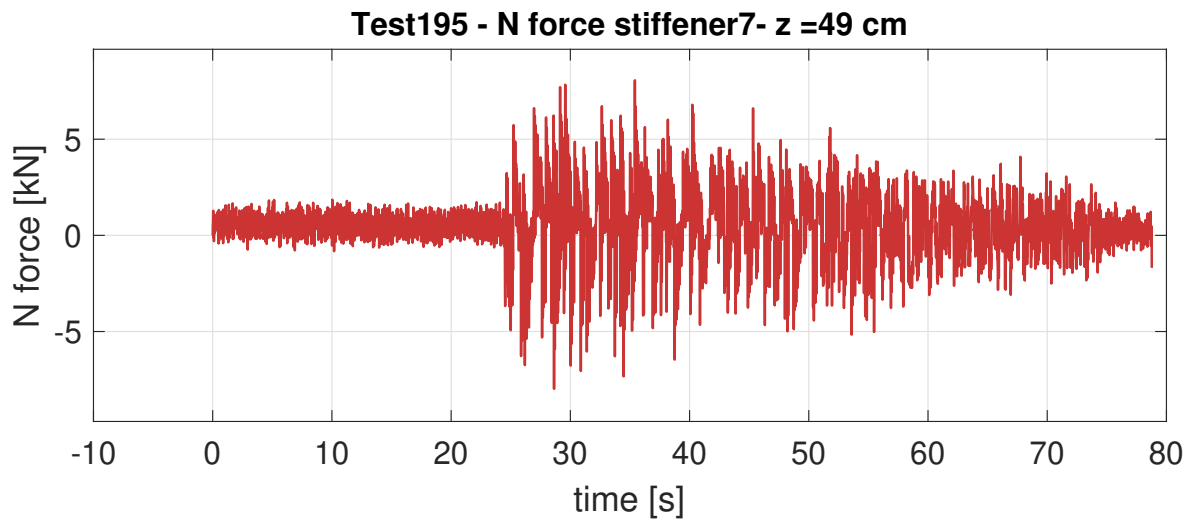


– Montante numero 8

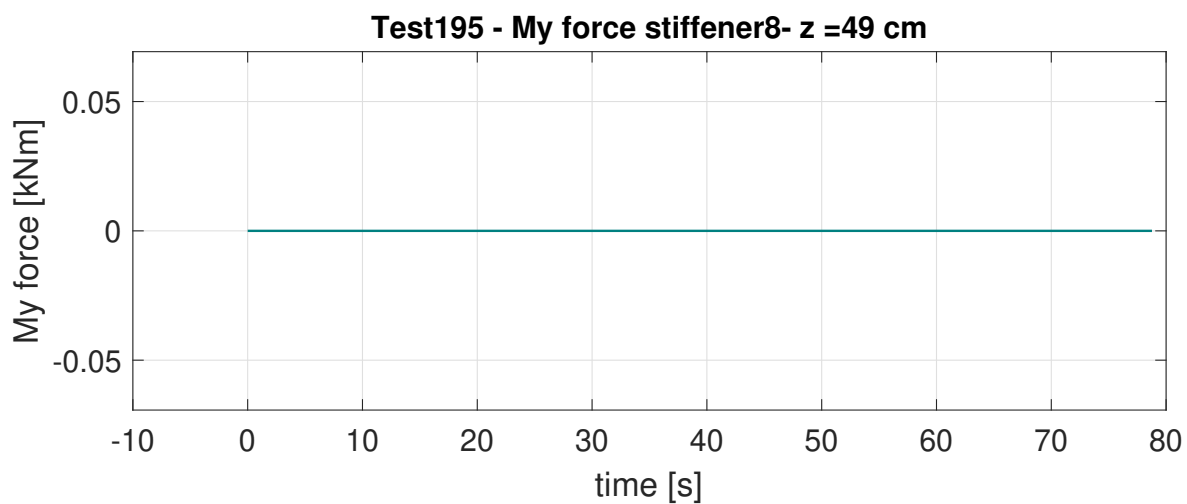
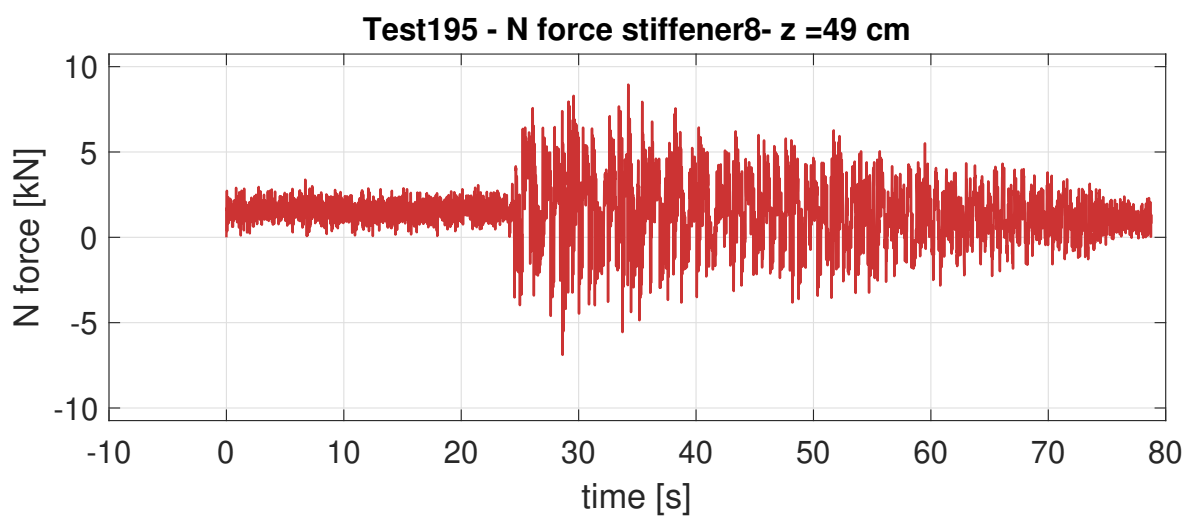


Quota z = 49 cm

– Montante numero 7

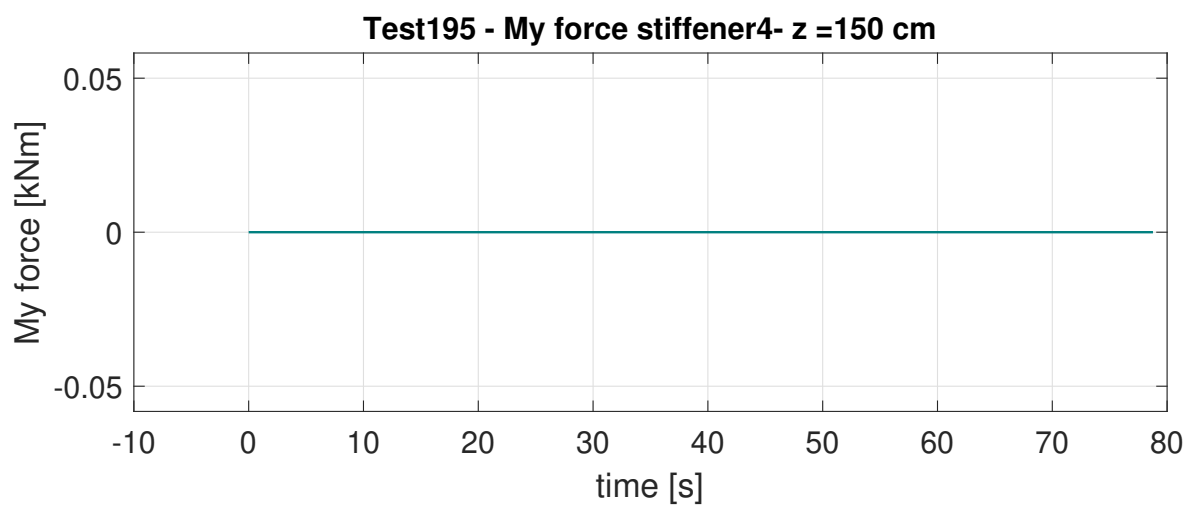
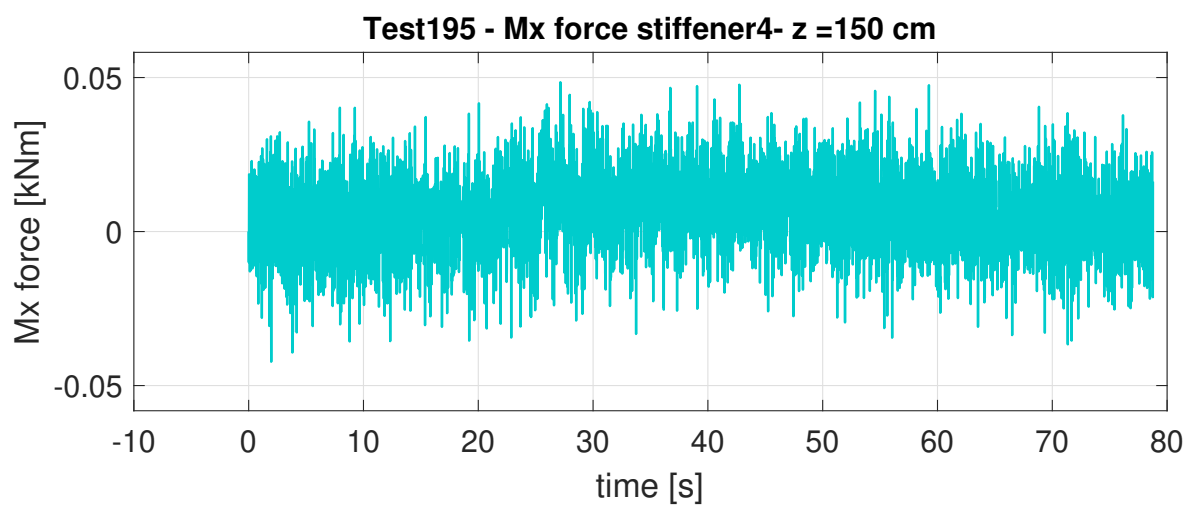
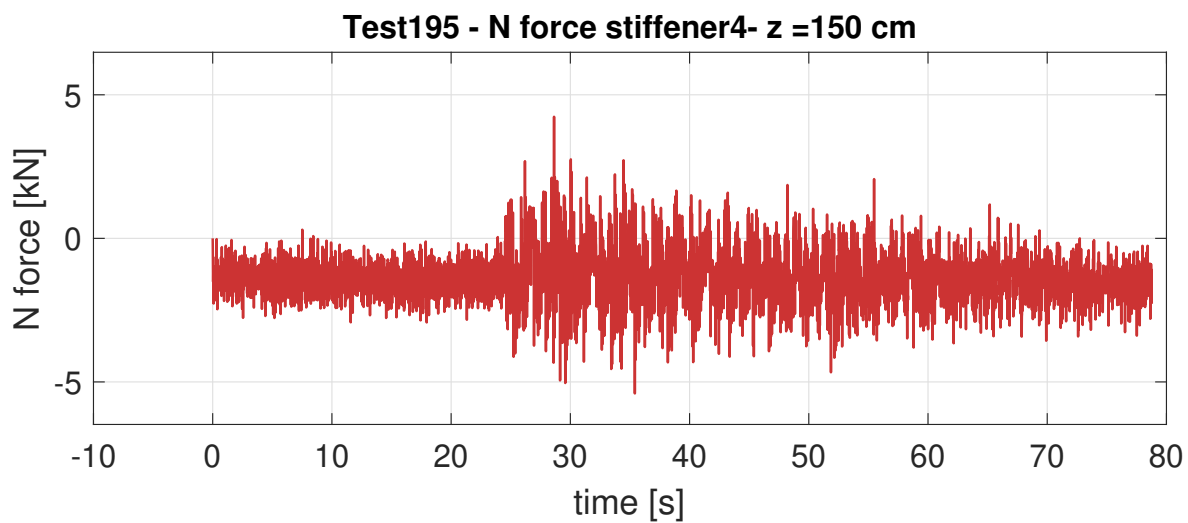


– Montante numero 8

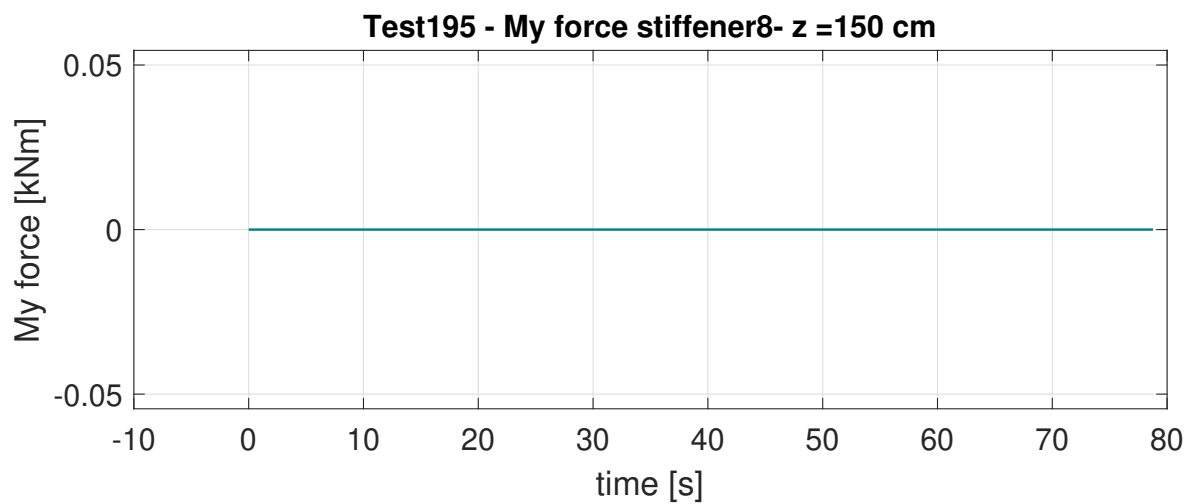
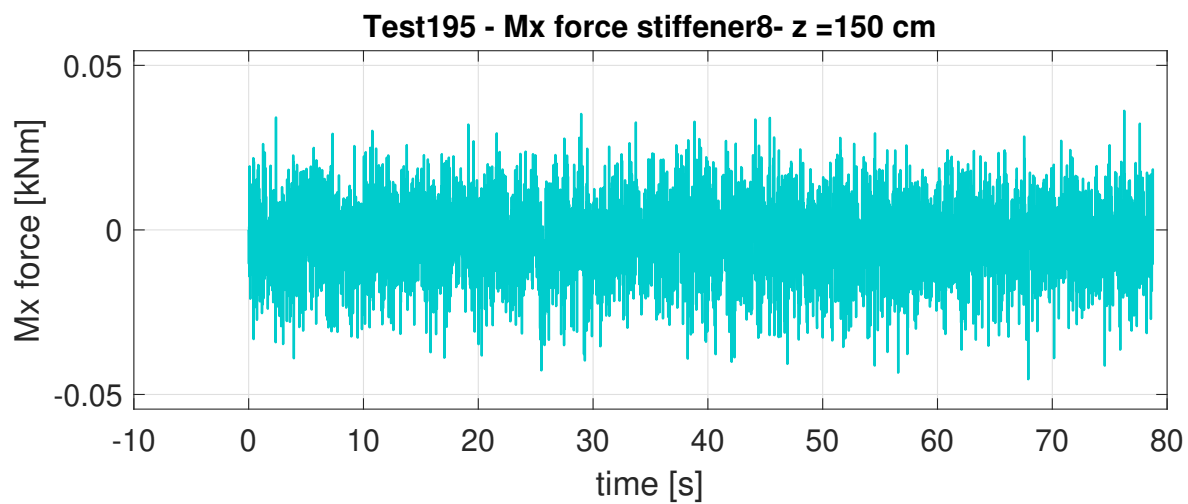
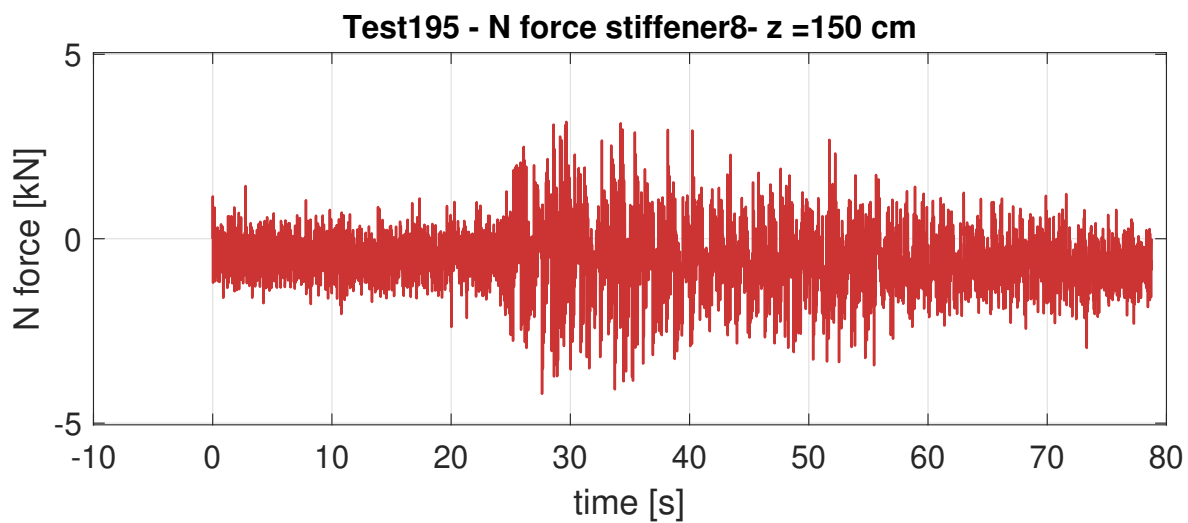


Quota z = 150 cm

– Montante numero 4

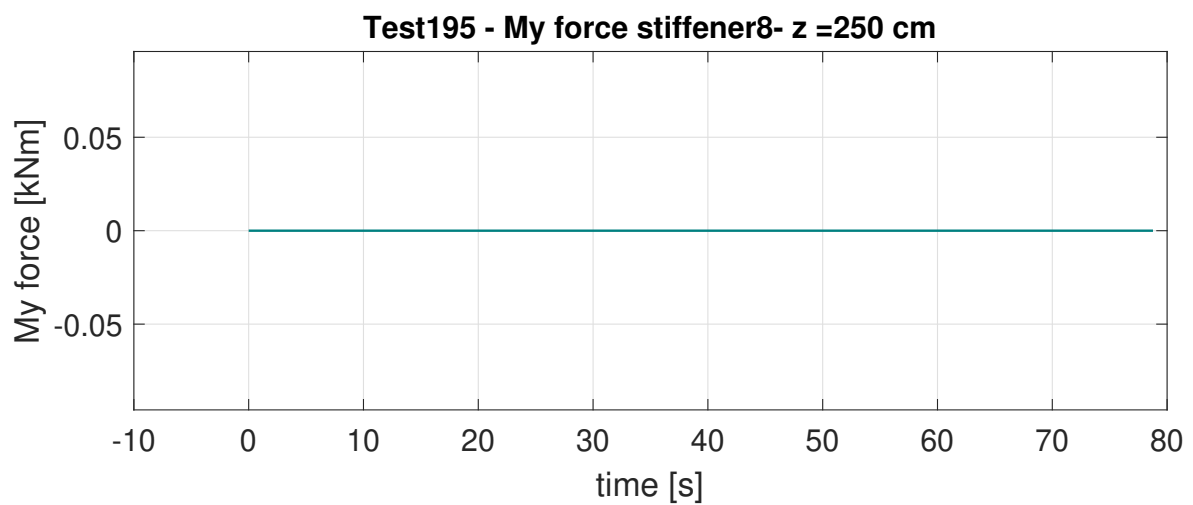
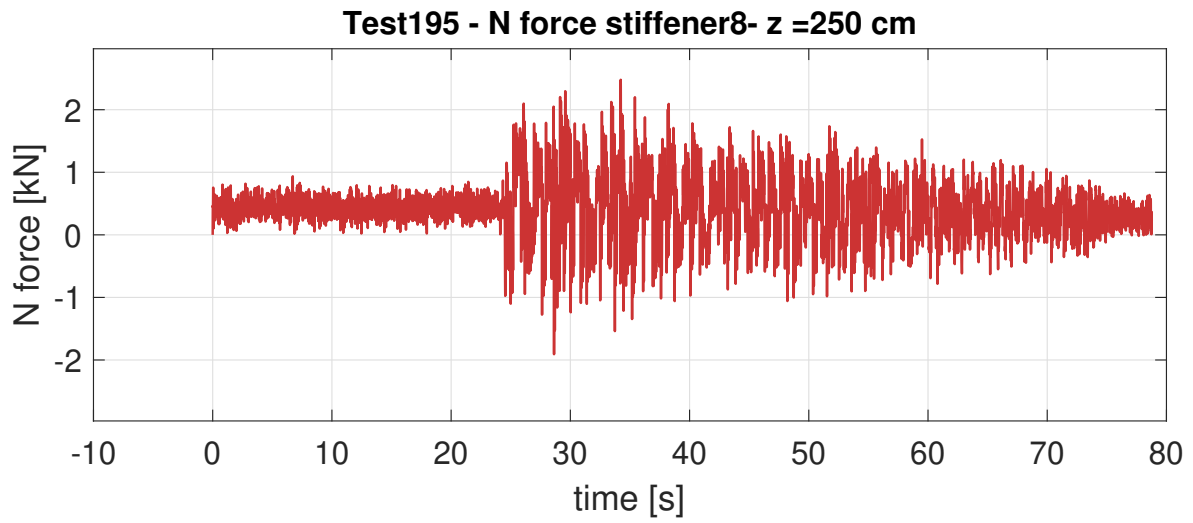


- Montante numero 8



Quota z = 250 cm

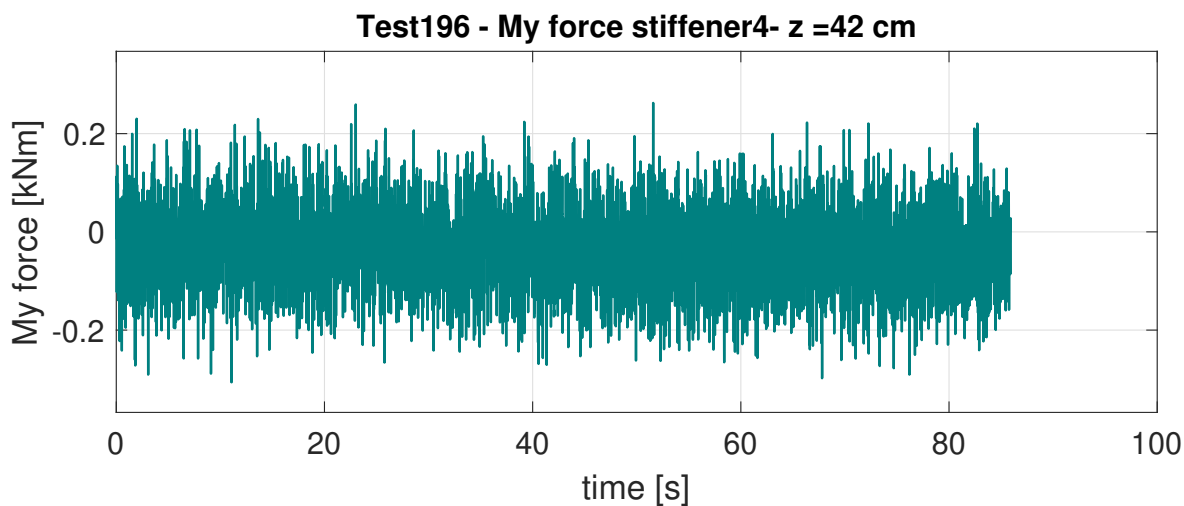
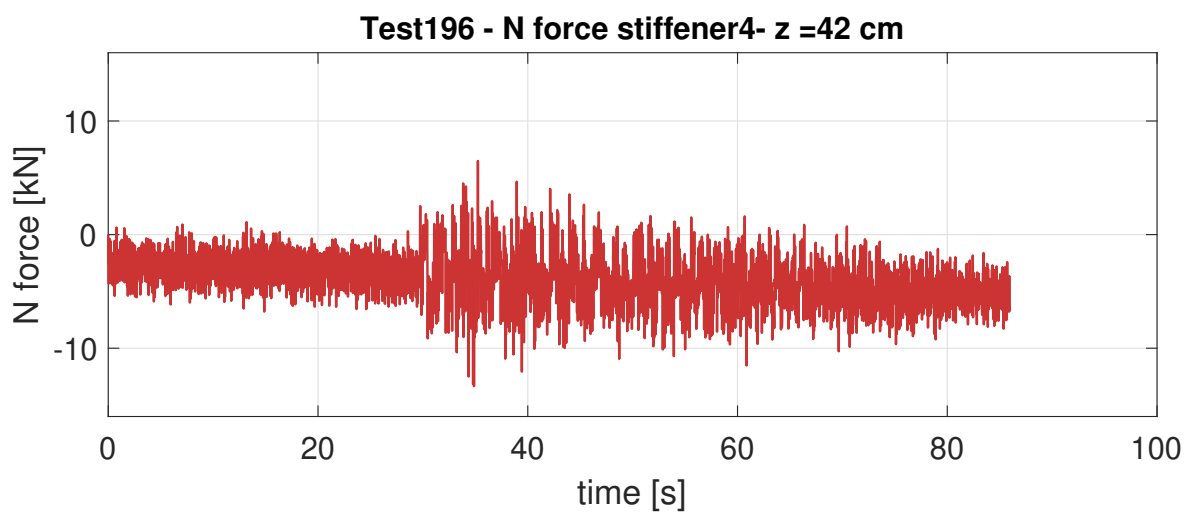
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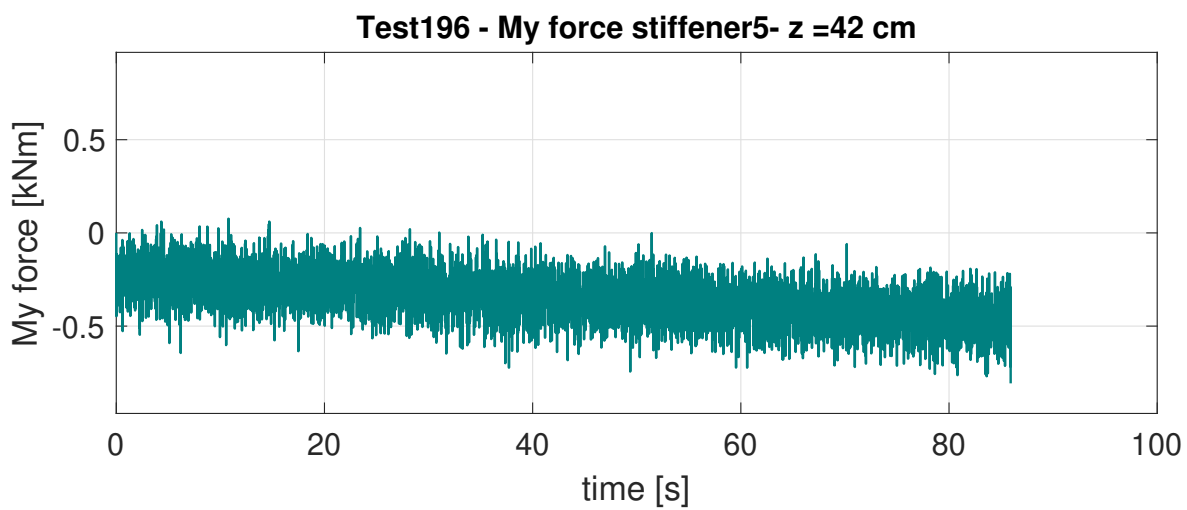
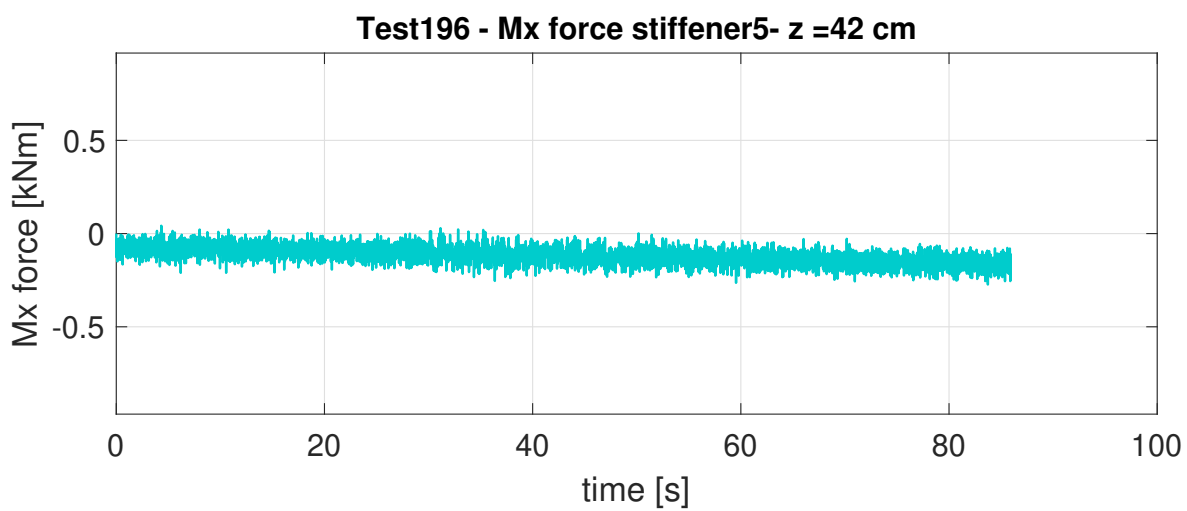
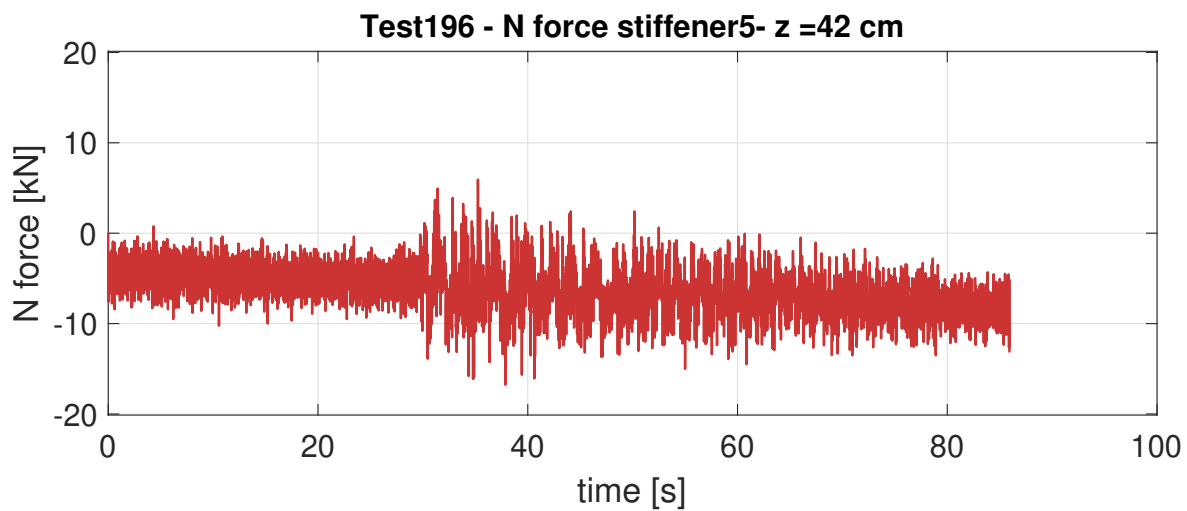
- Terremoto A1 0.55 g

Quota z = 42 cm

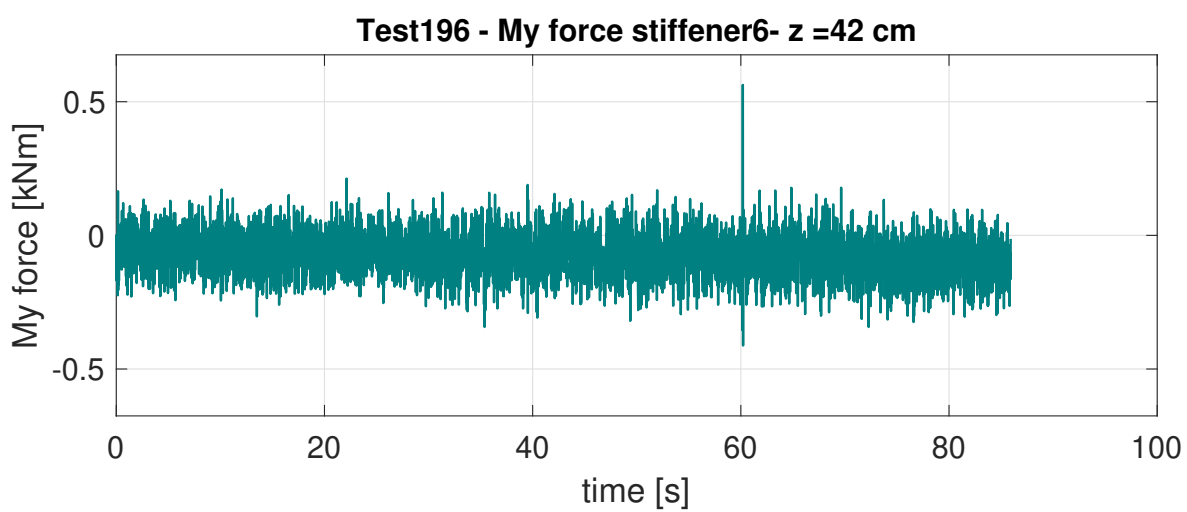
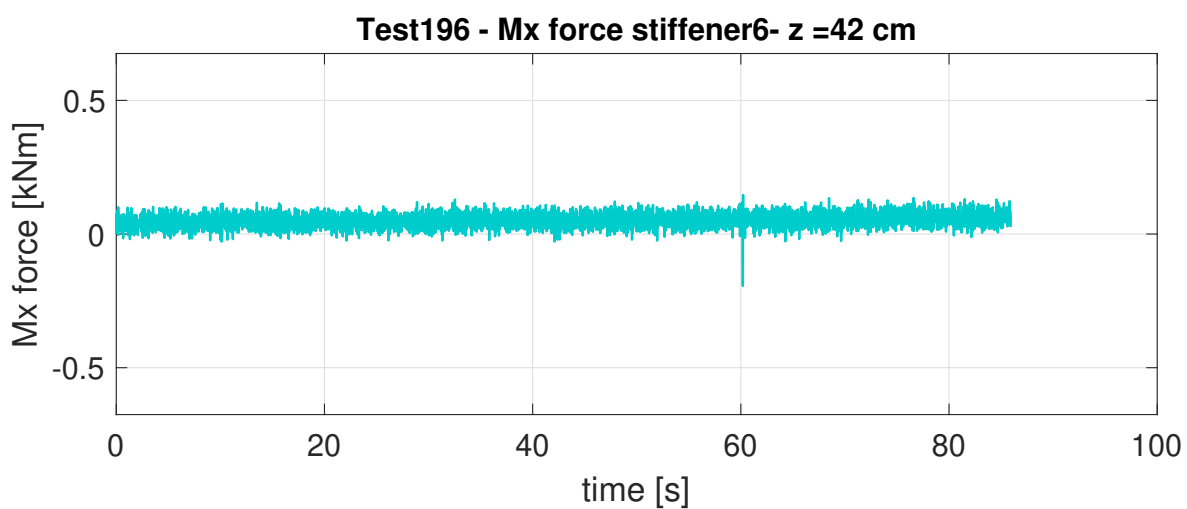
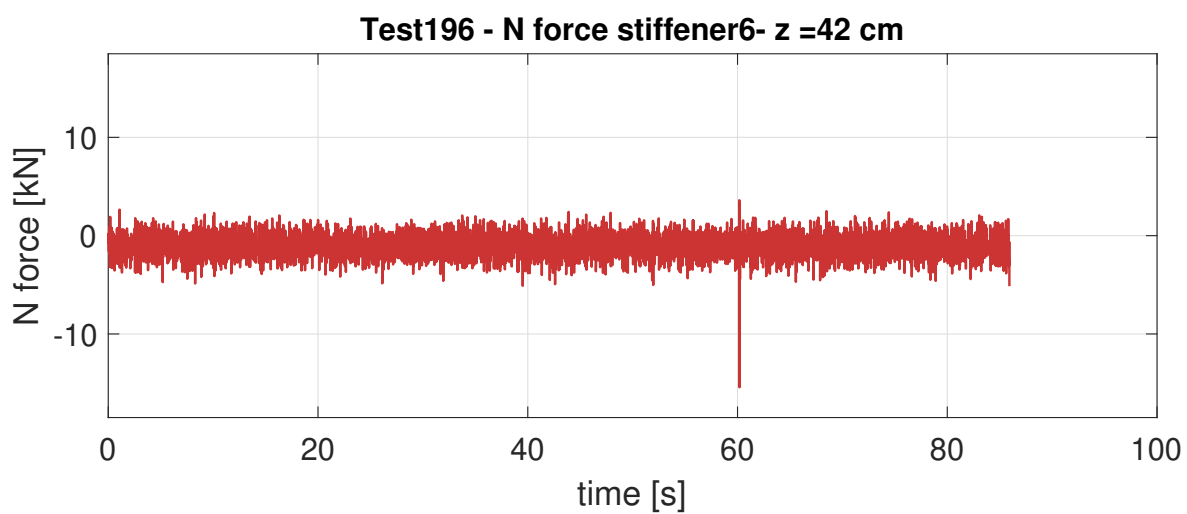
– Montante numero 4



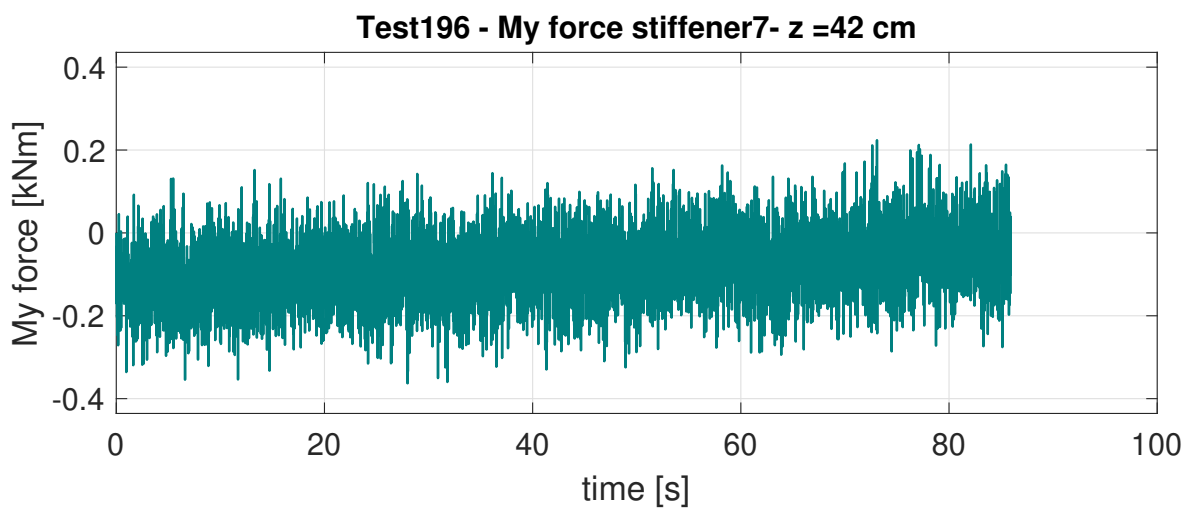
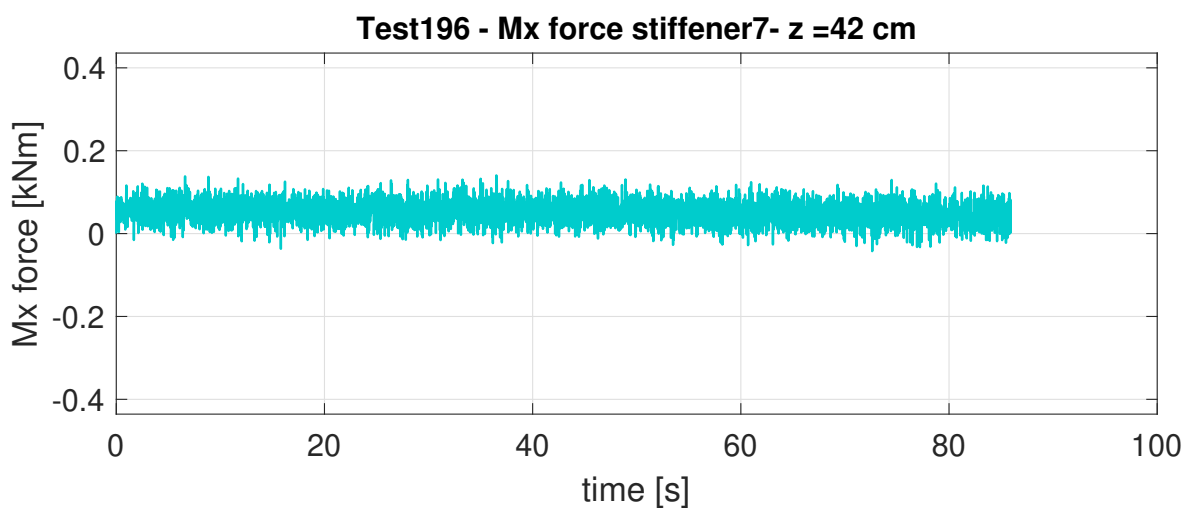
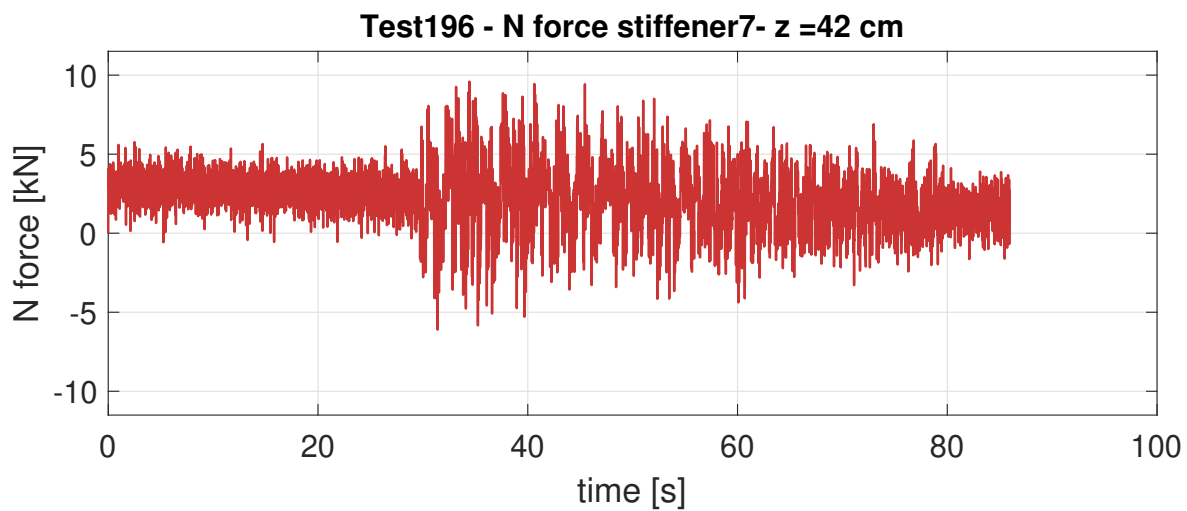
- Montante numero 5



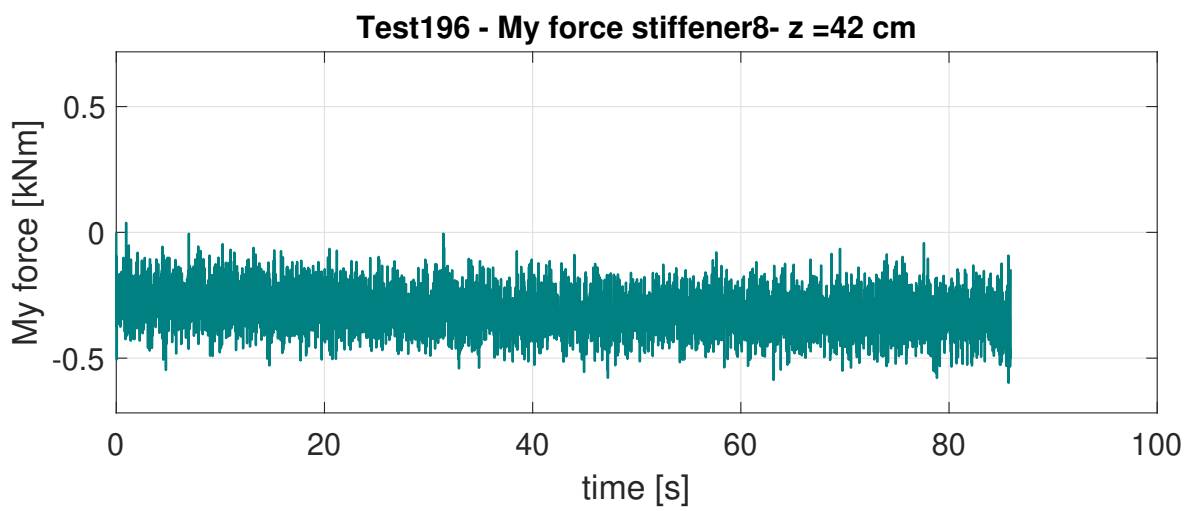
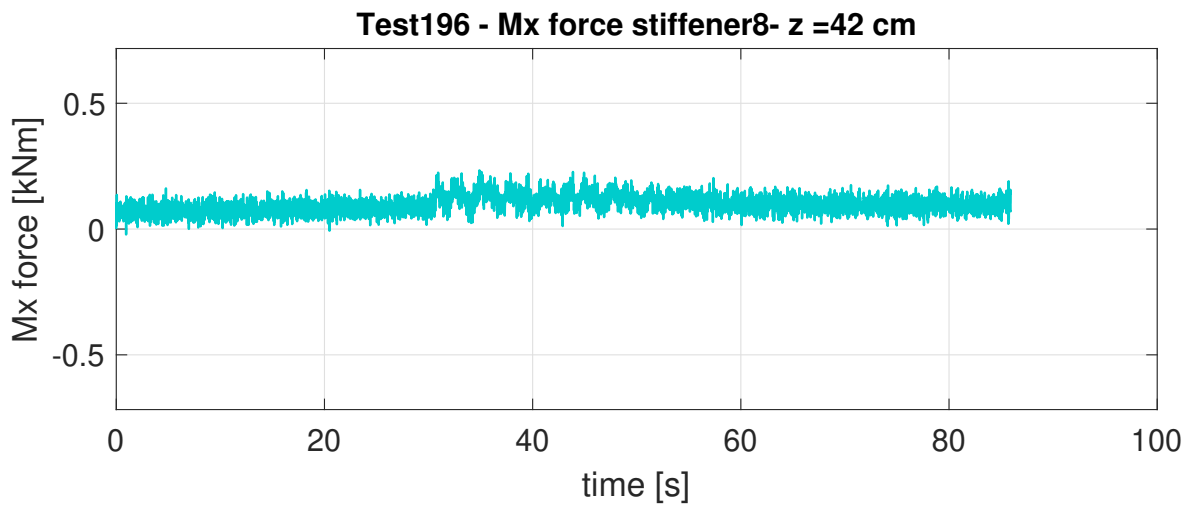
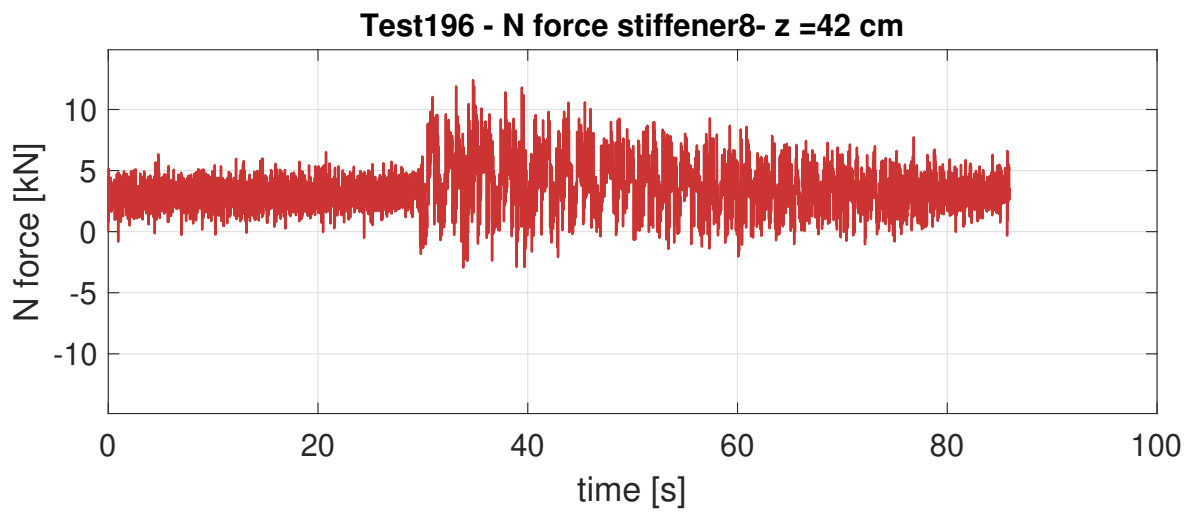
– Montante numero 6



- Montante numero 7

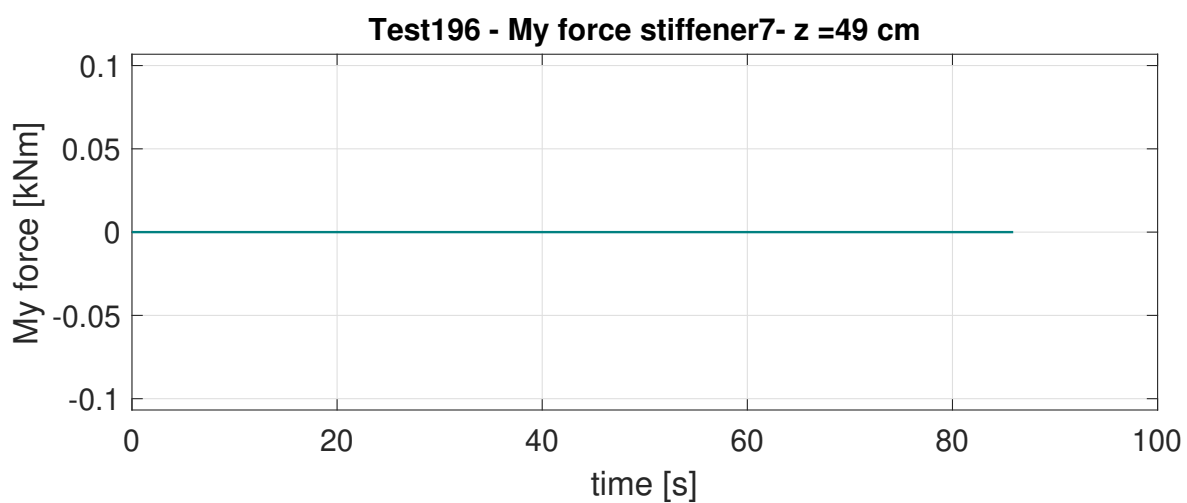
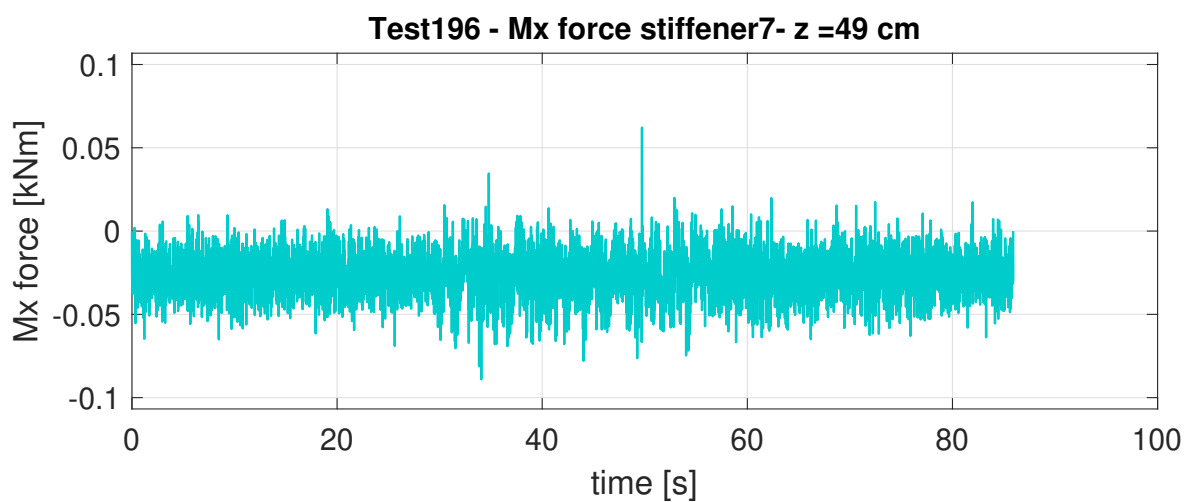
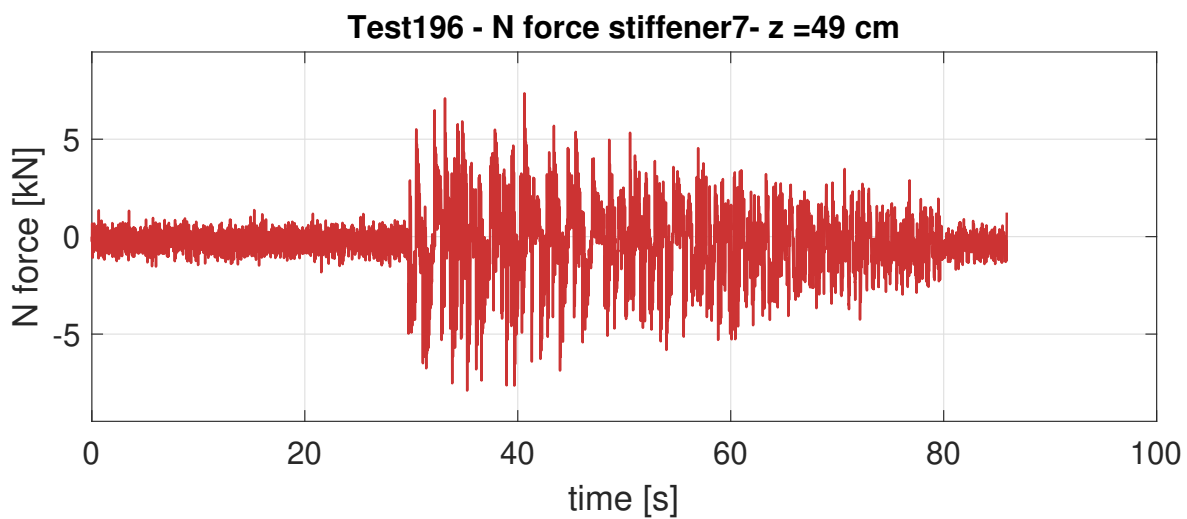


- Montante numero 8

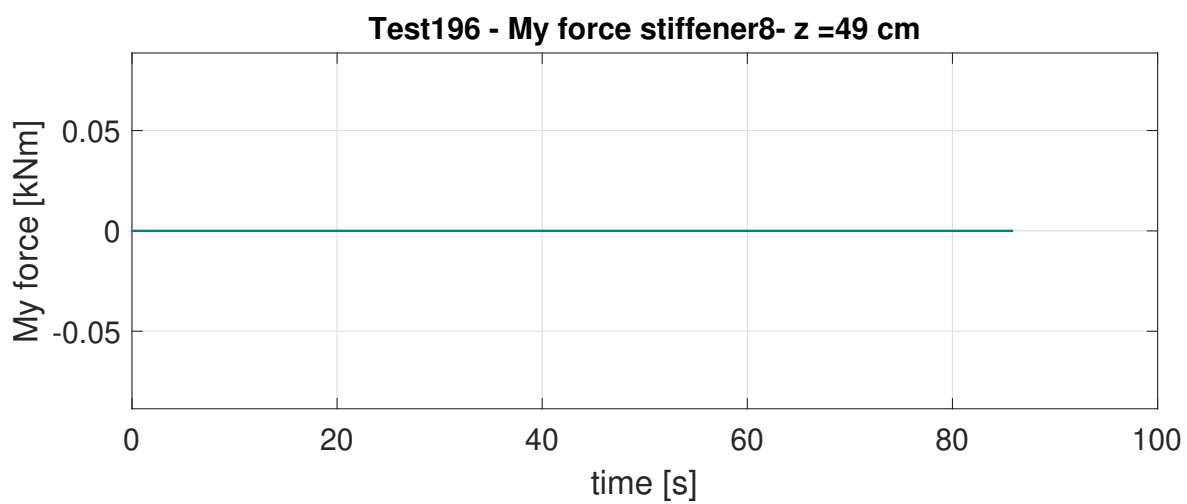
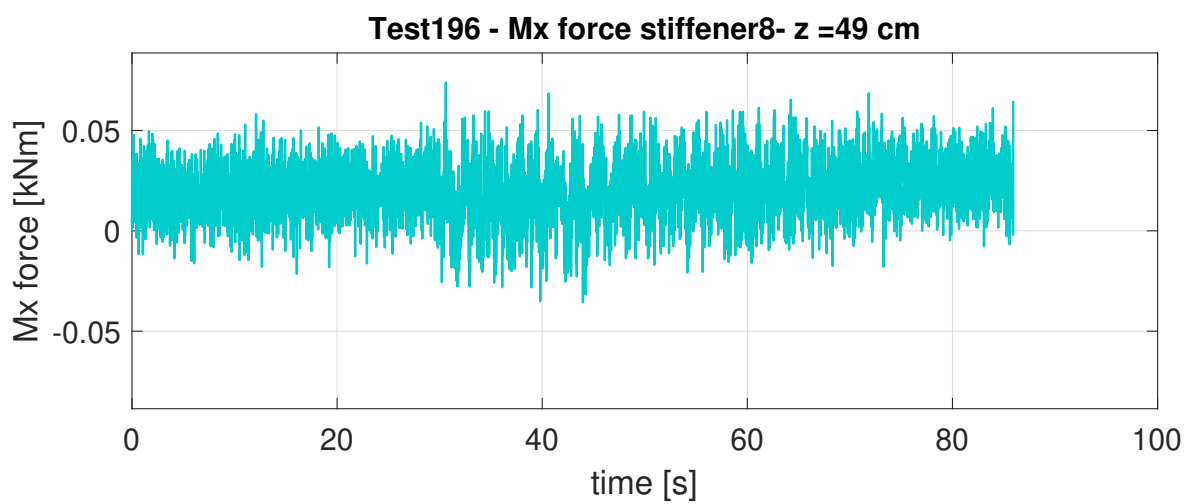
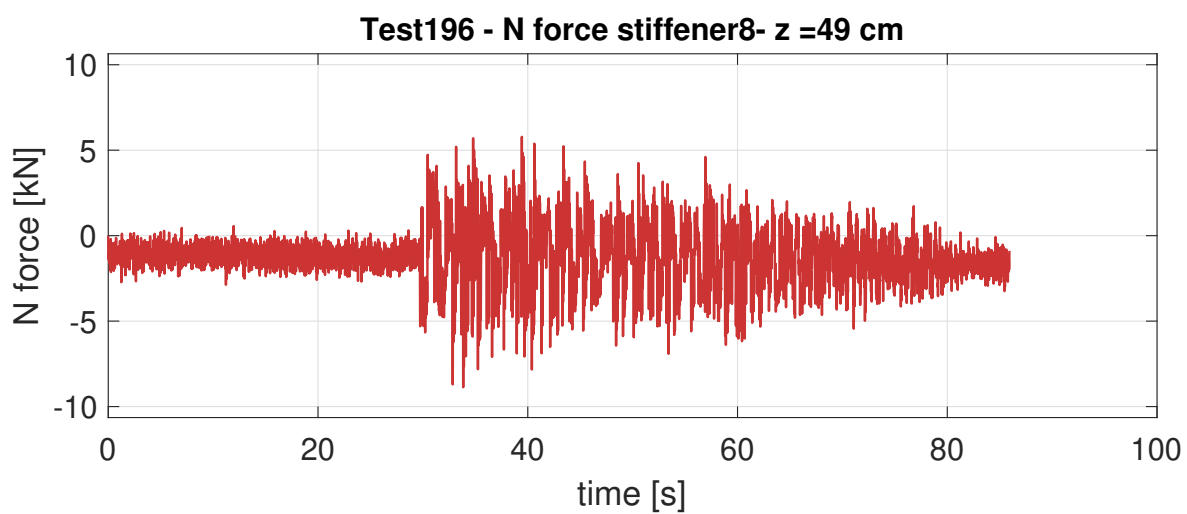


Quota z = 49 cm

– Montante numero 7

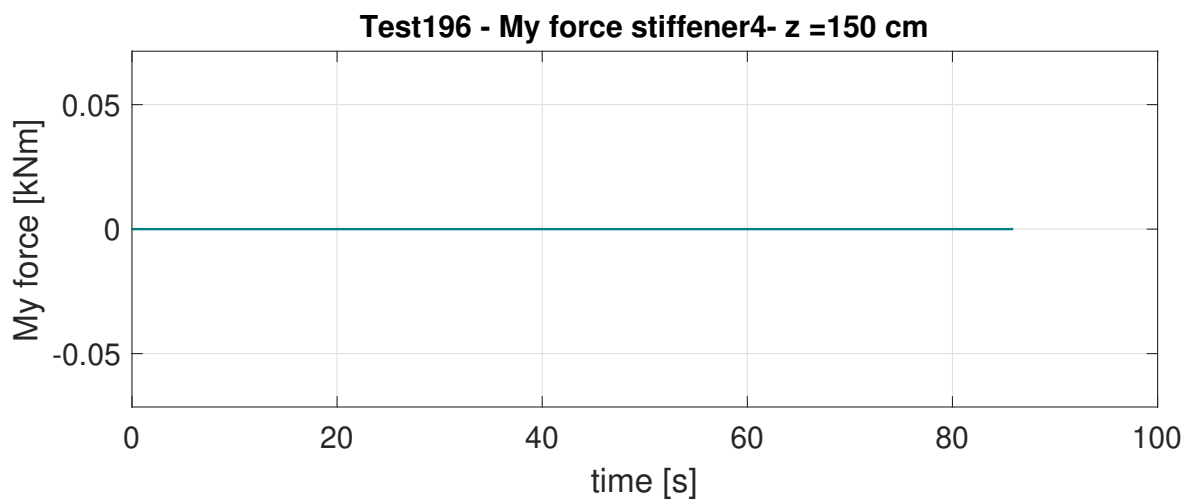
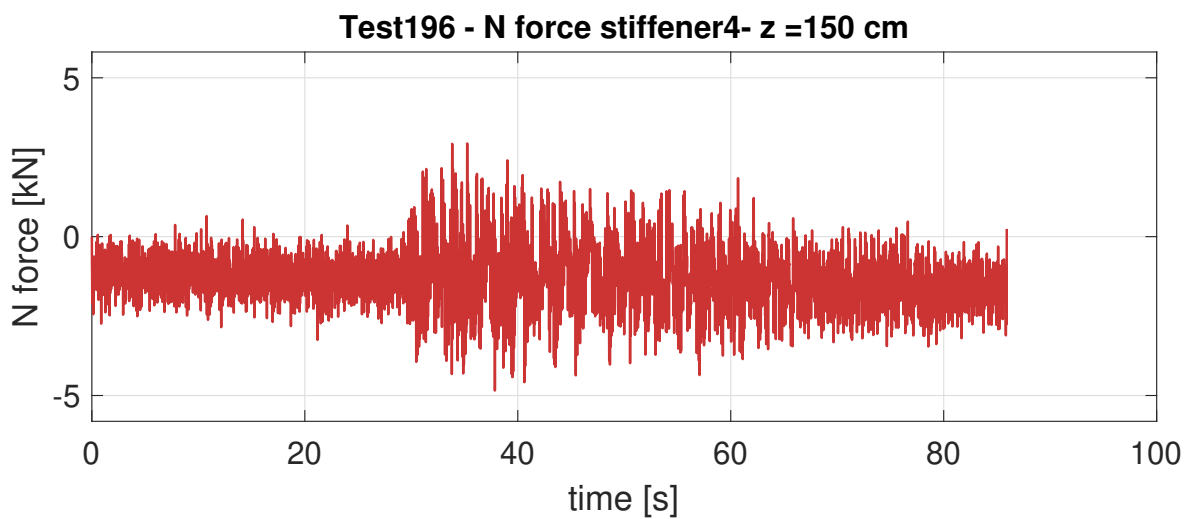


– Montante numero 8

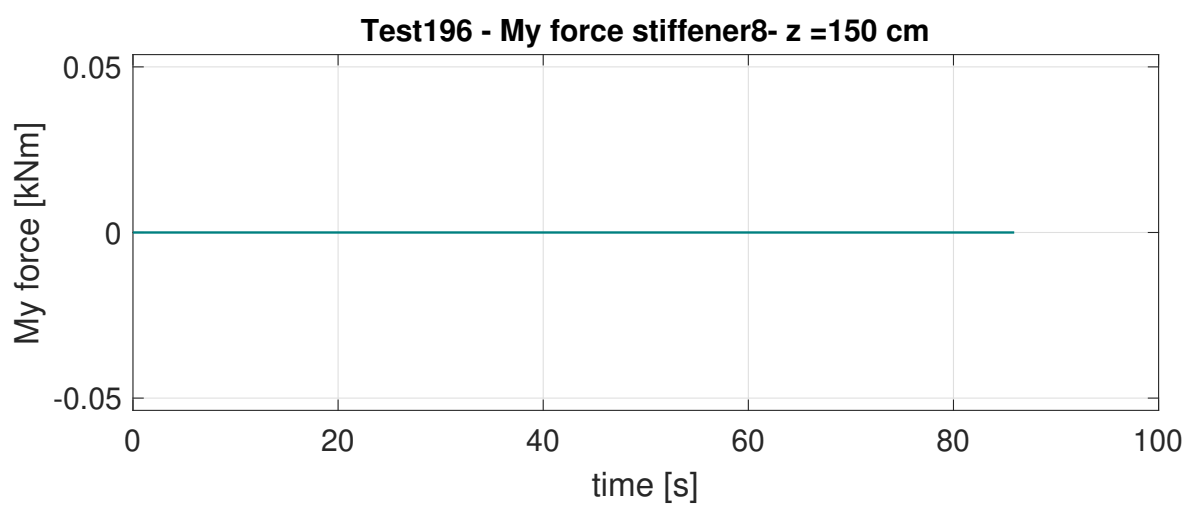
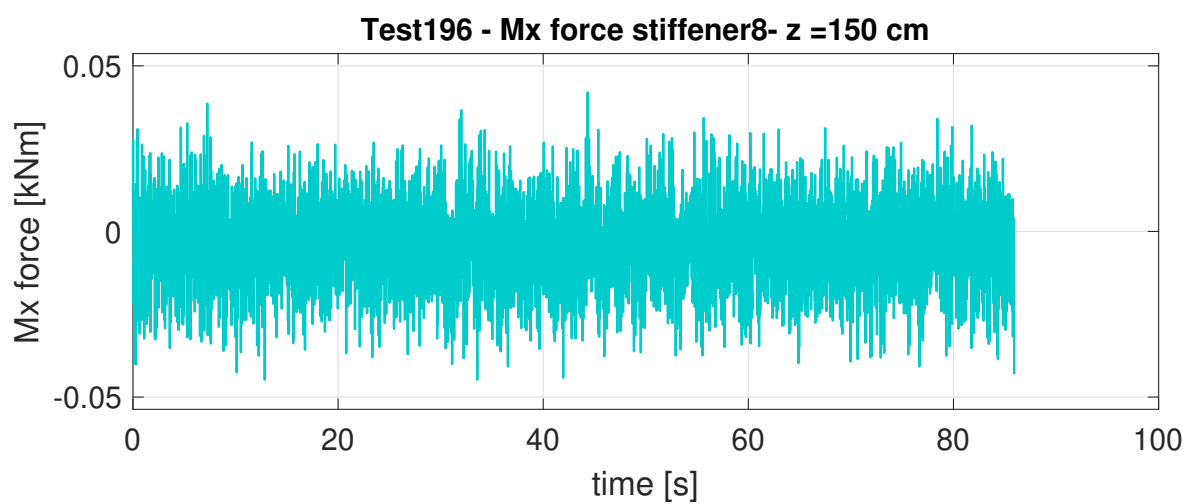
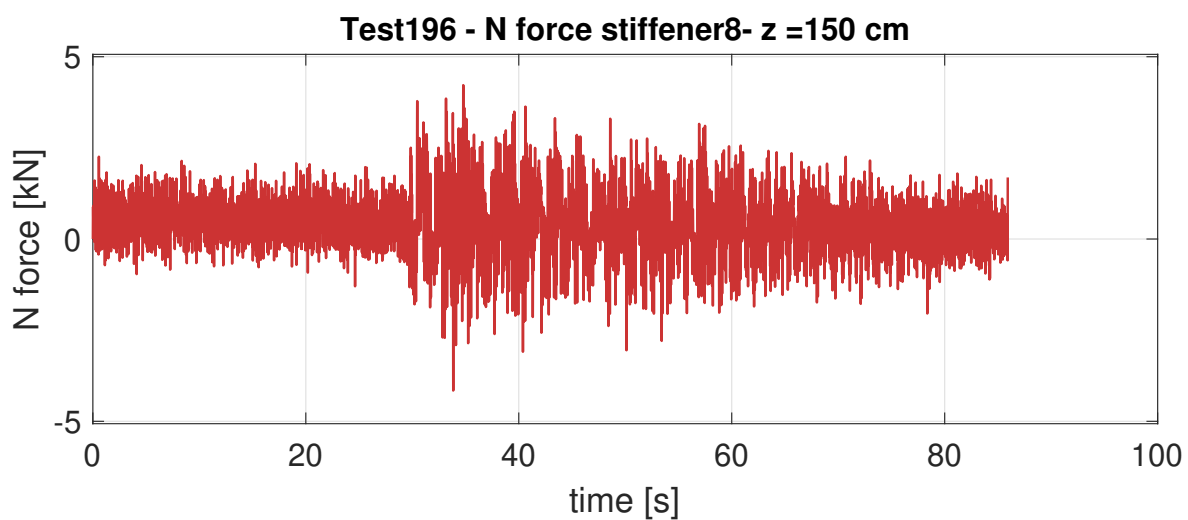


Quota z = 150 cm

– Montante numero 4

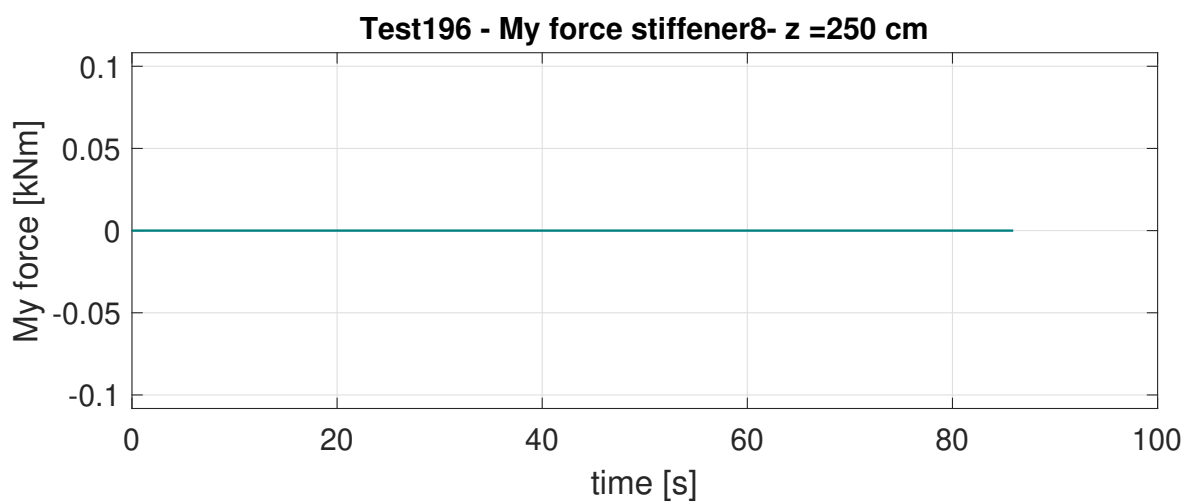
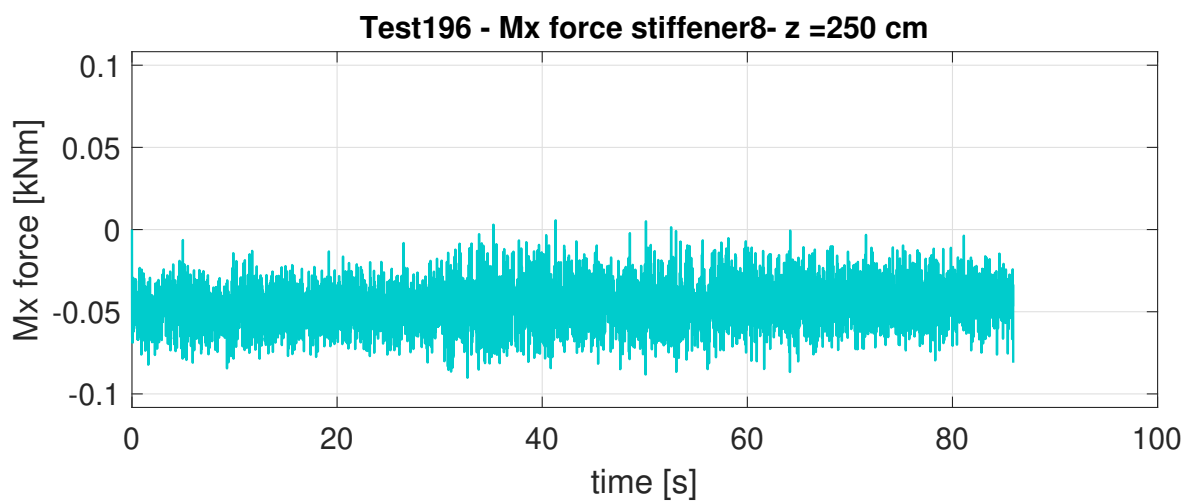
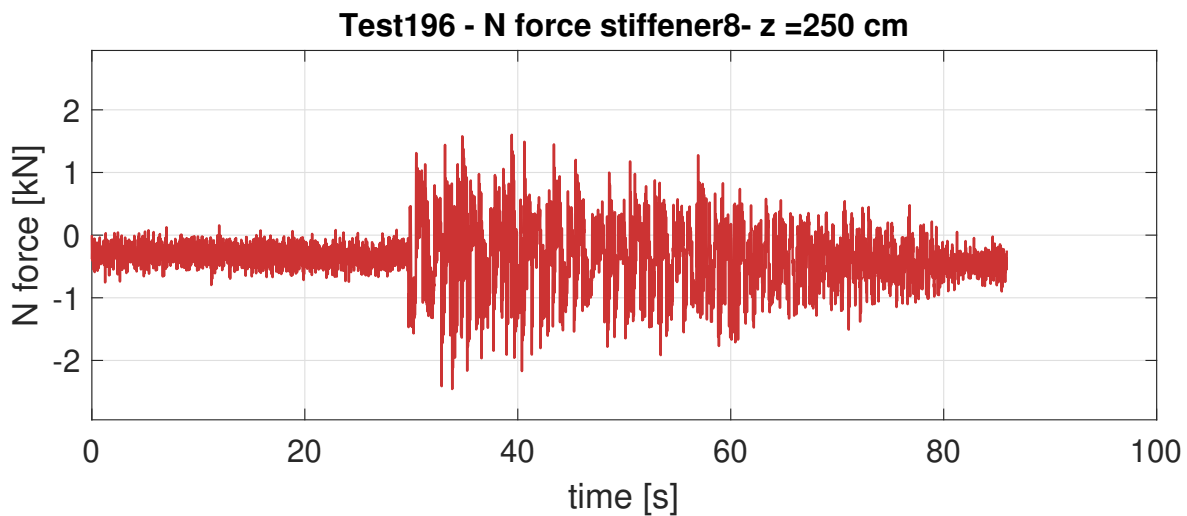


– Montante numero 8



Quota z = 250 cm

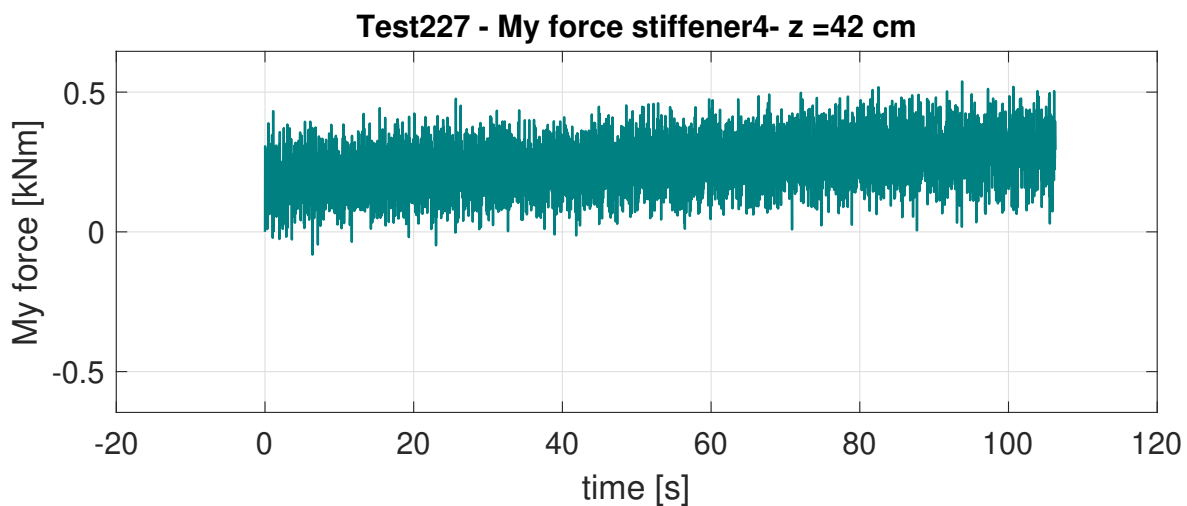
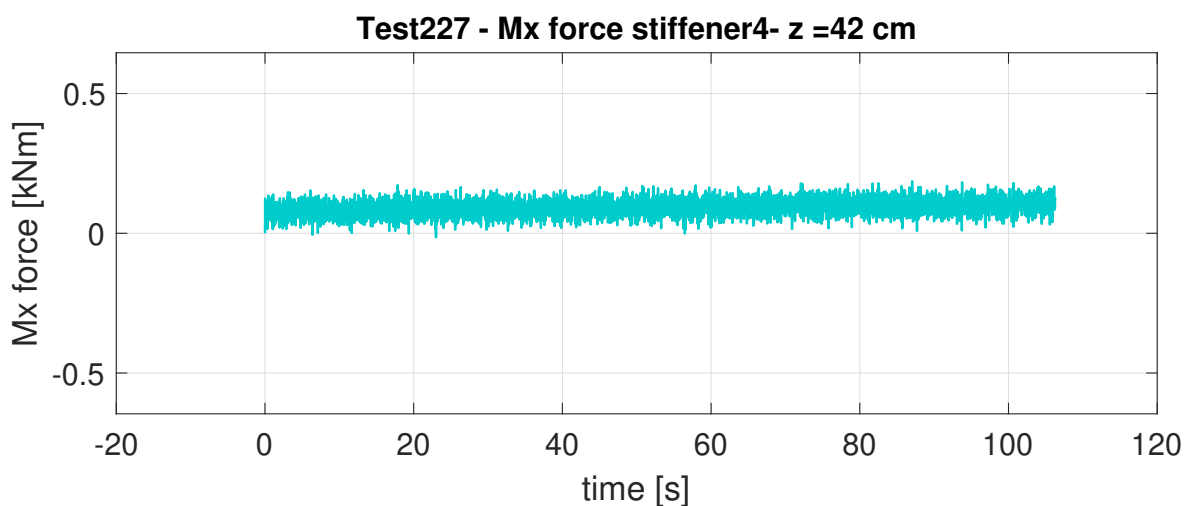
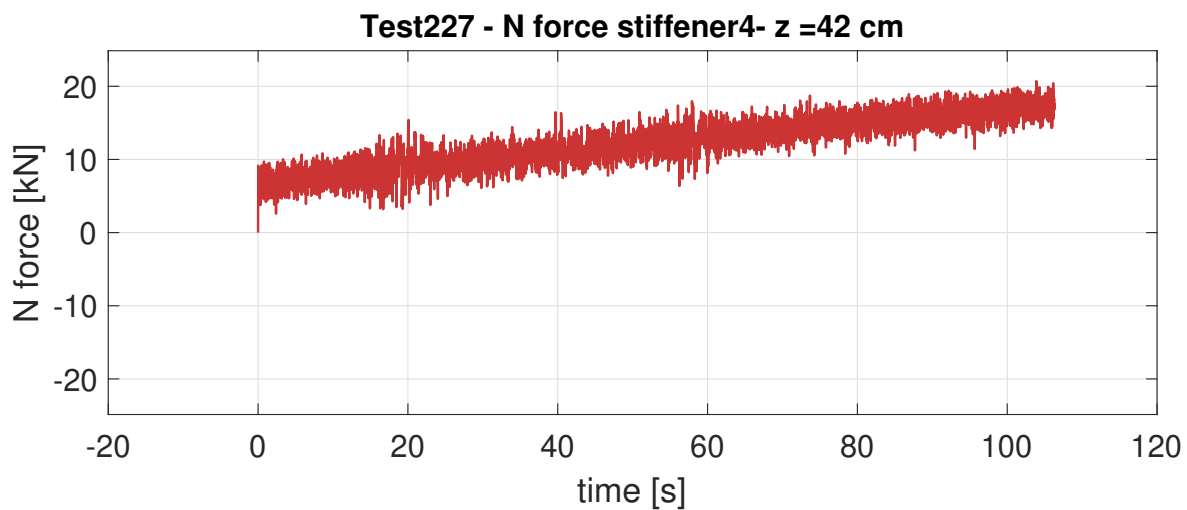
– Montante numero 8



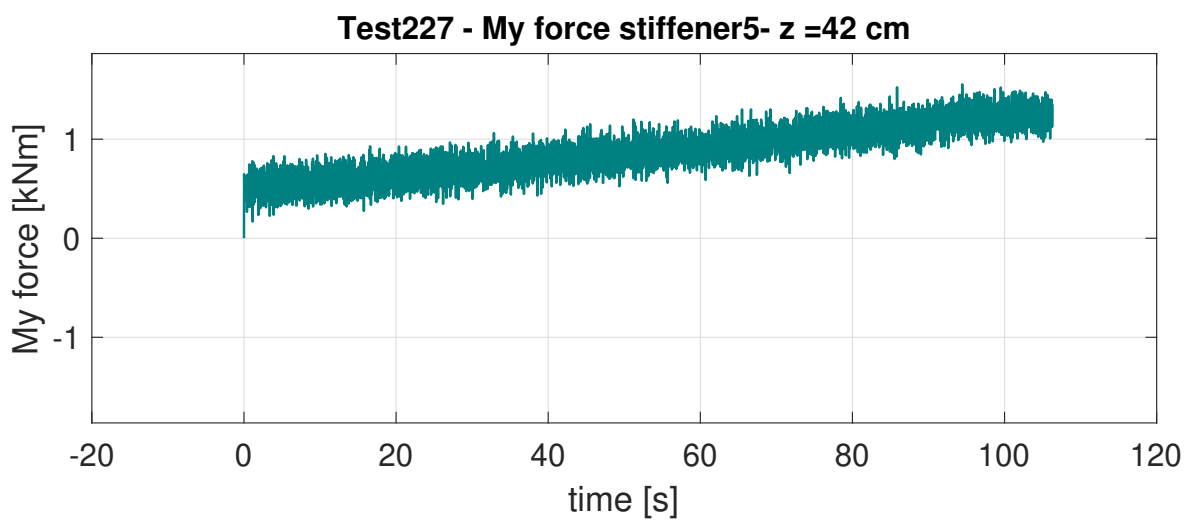
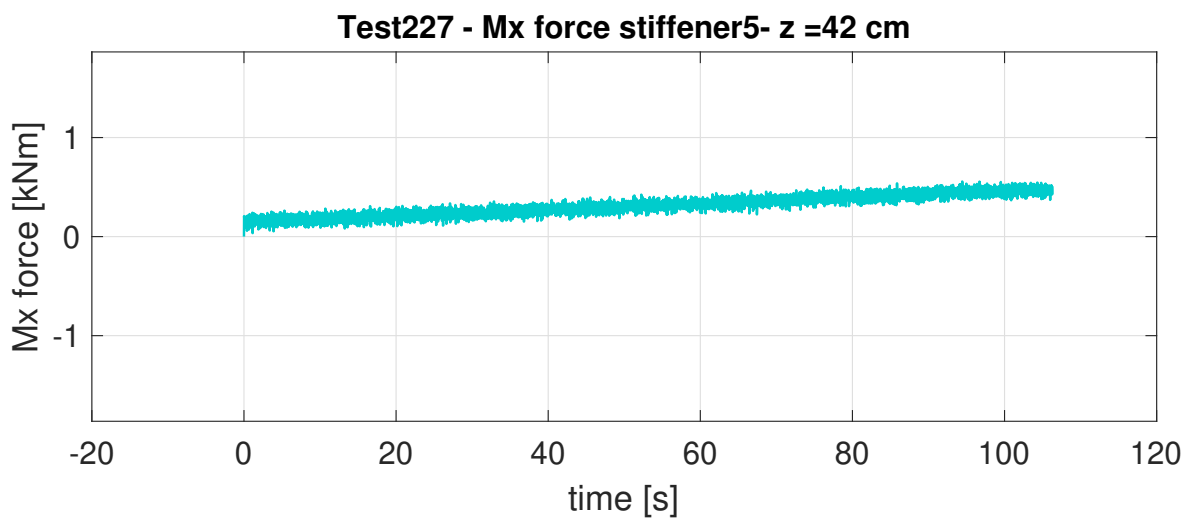
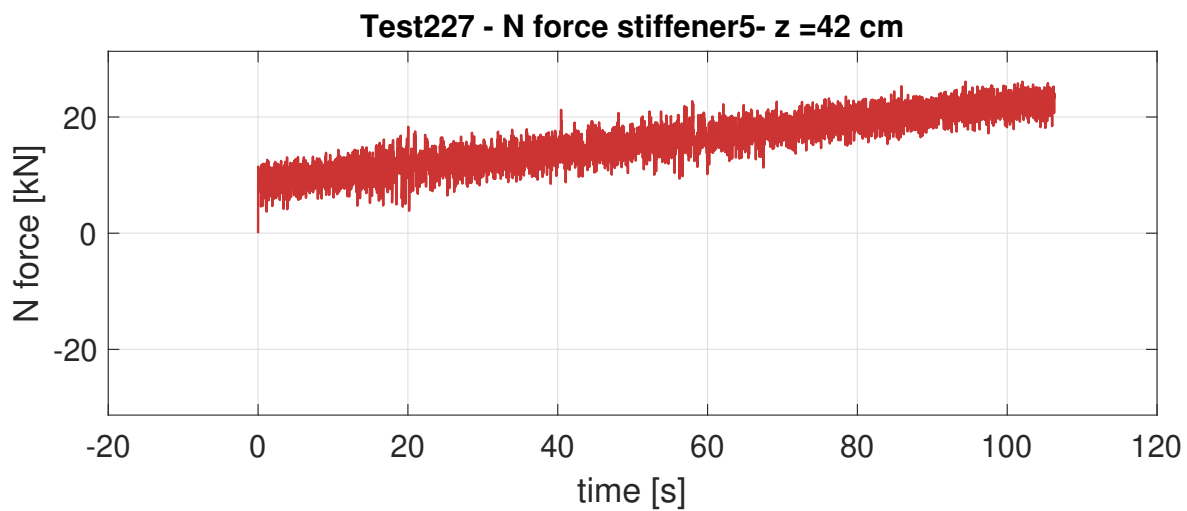
- Terremoto RS1 0.1 g

Quota z = 42 cm

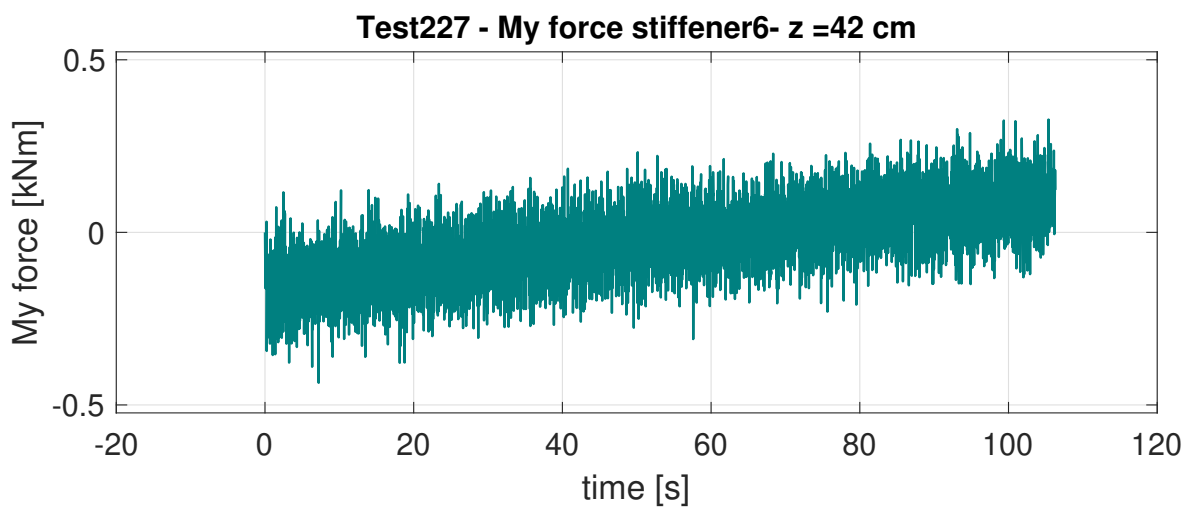
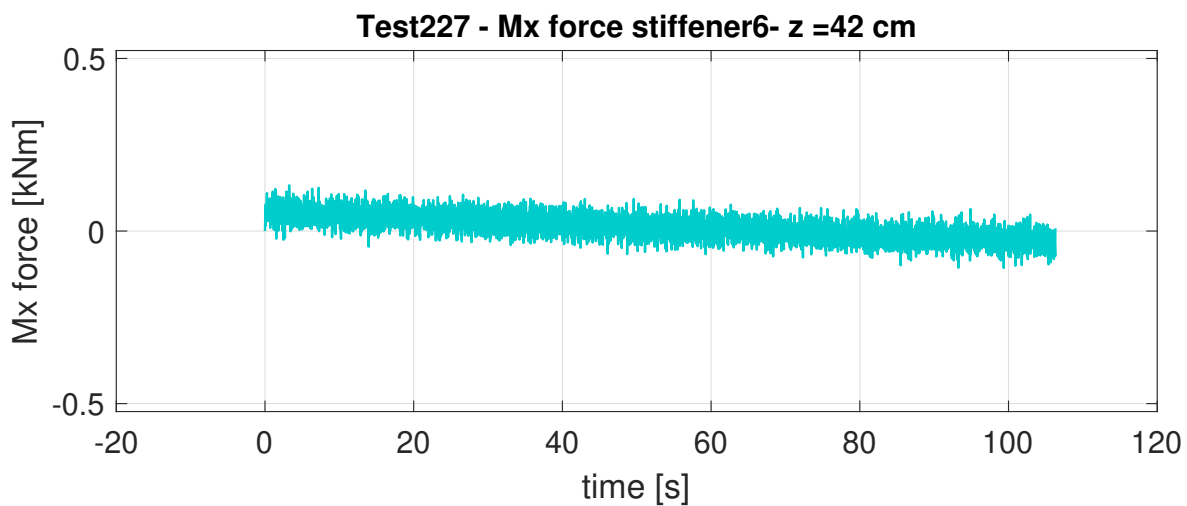
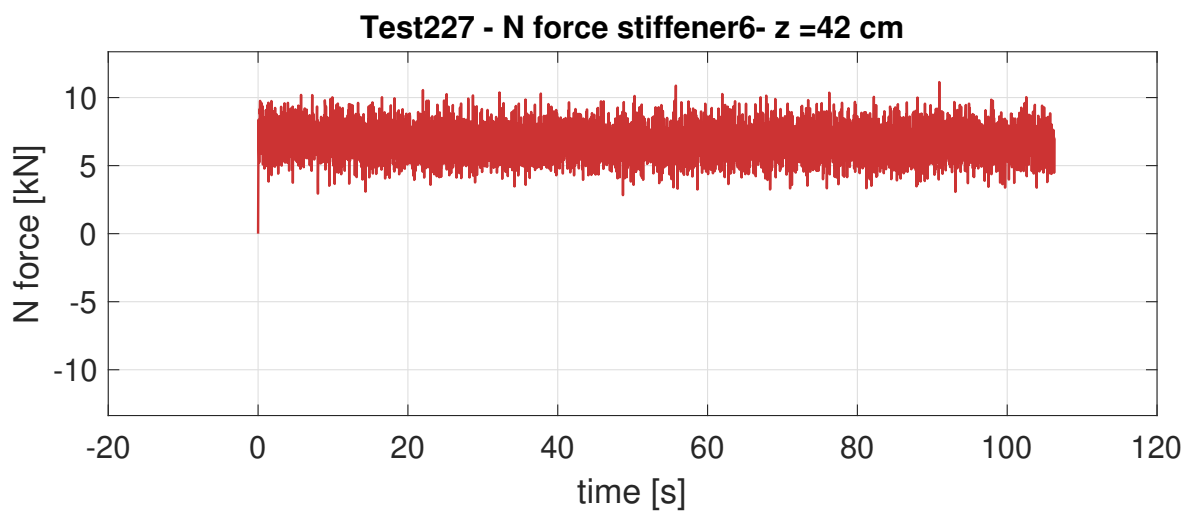
– Montante numero 4



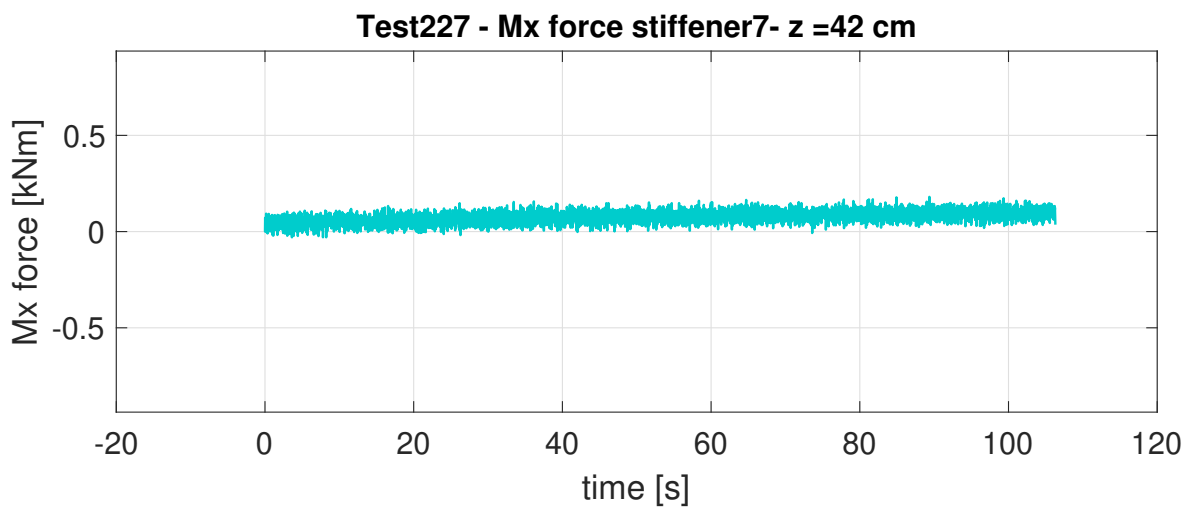
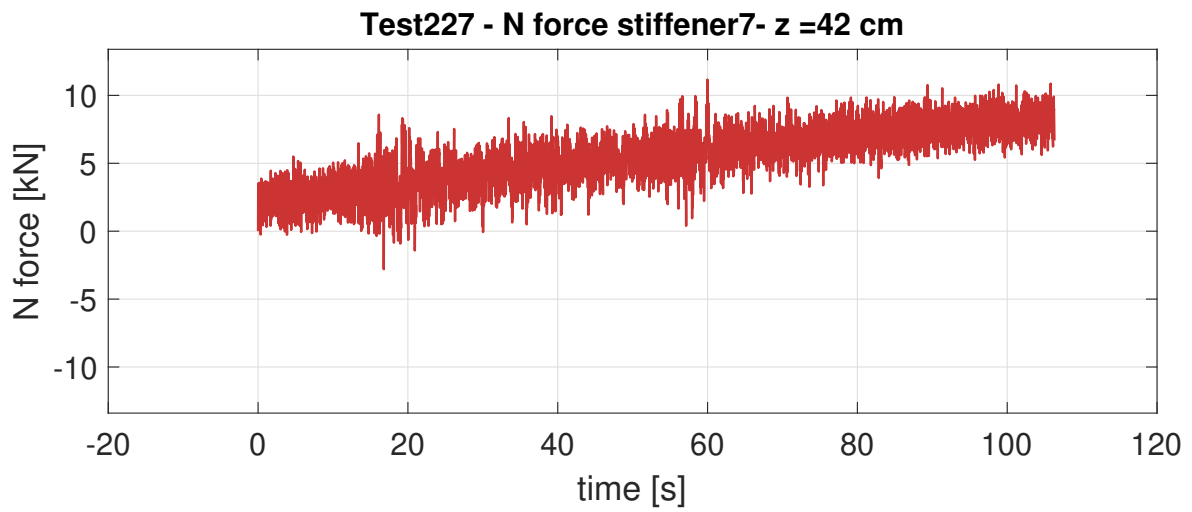
- Montante numero 5



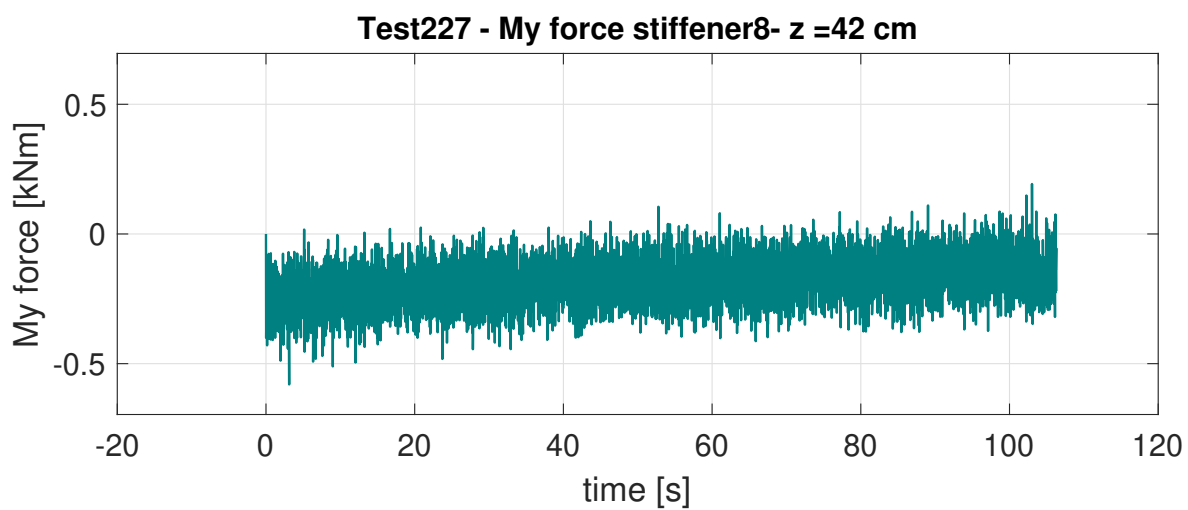
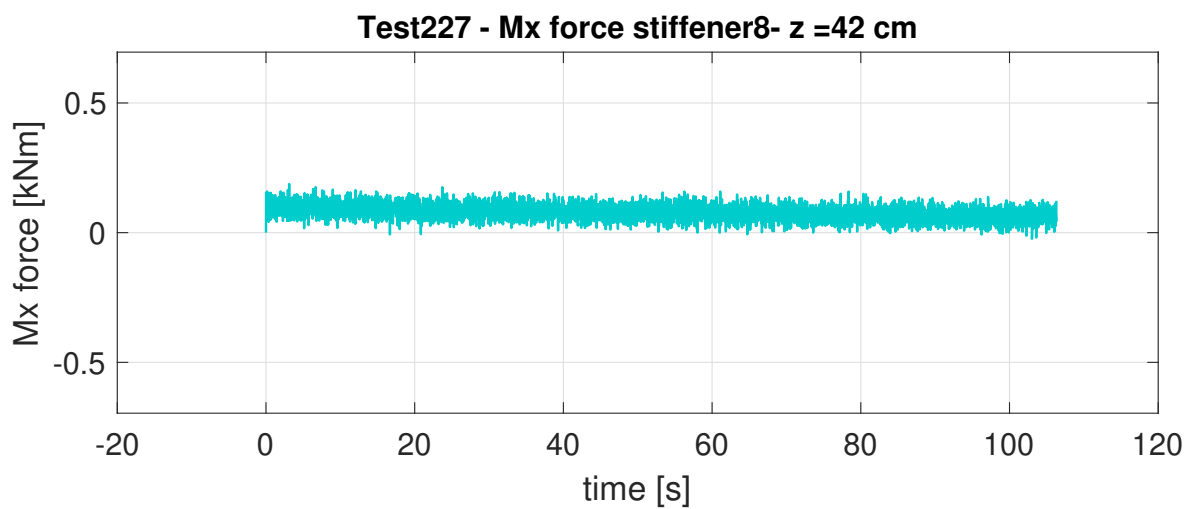
- Montante numero 6



- Montante numero 7

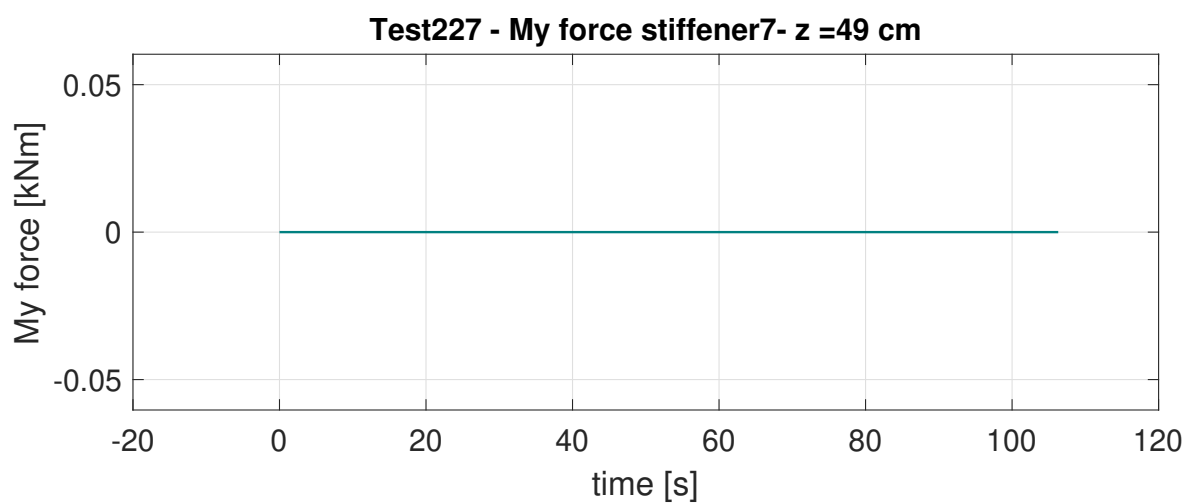
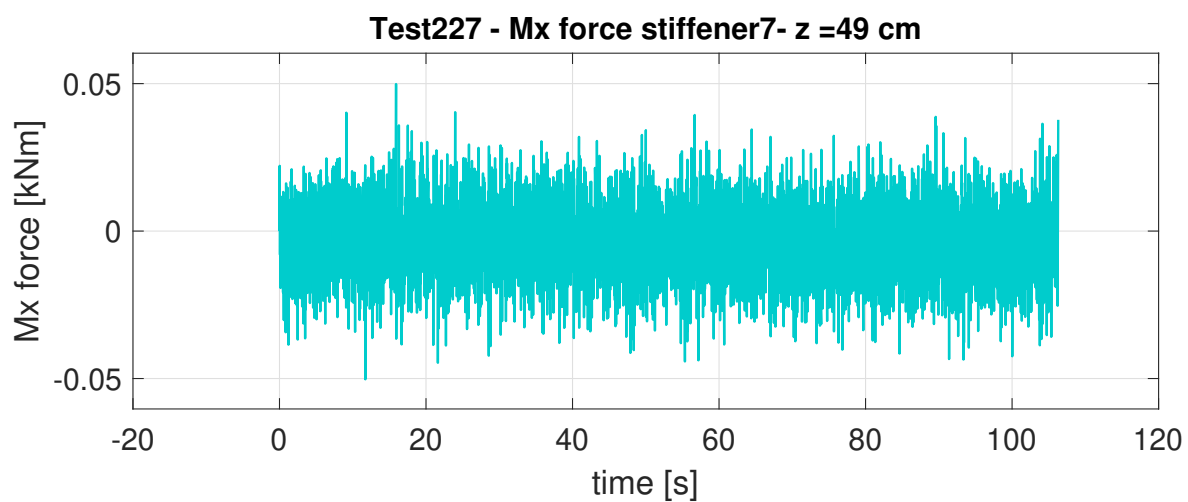
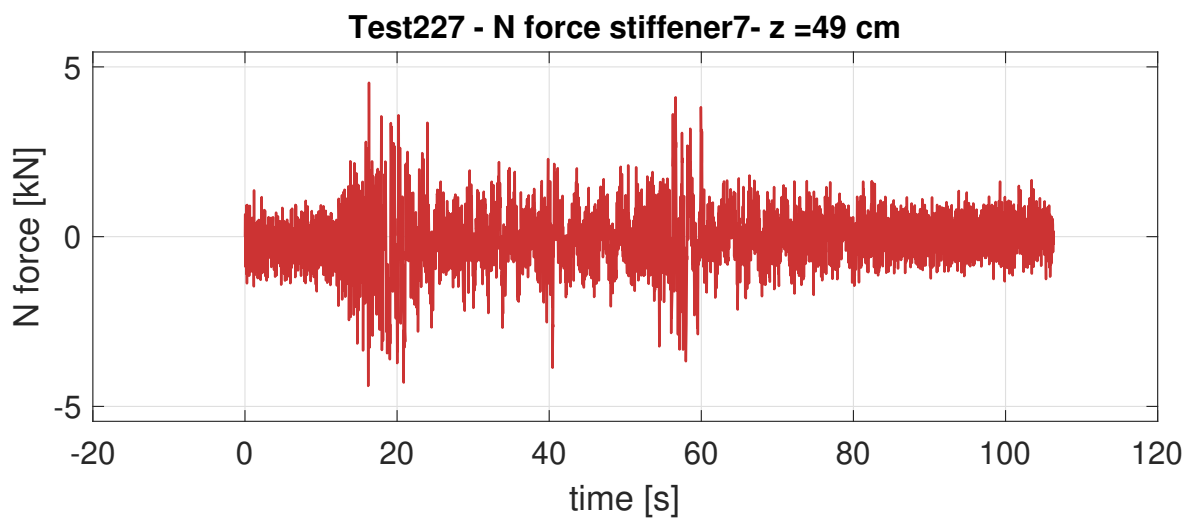


- Montante numero 8

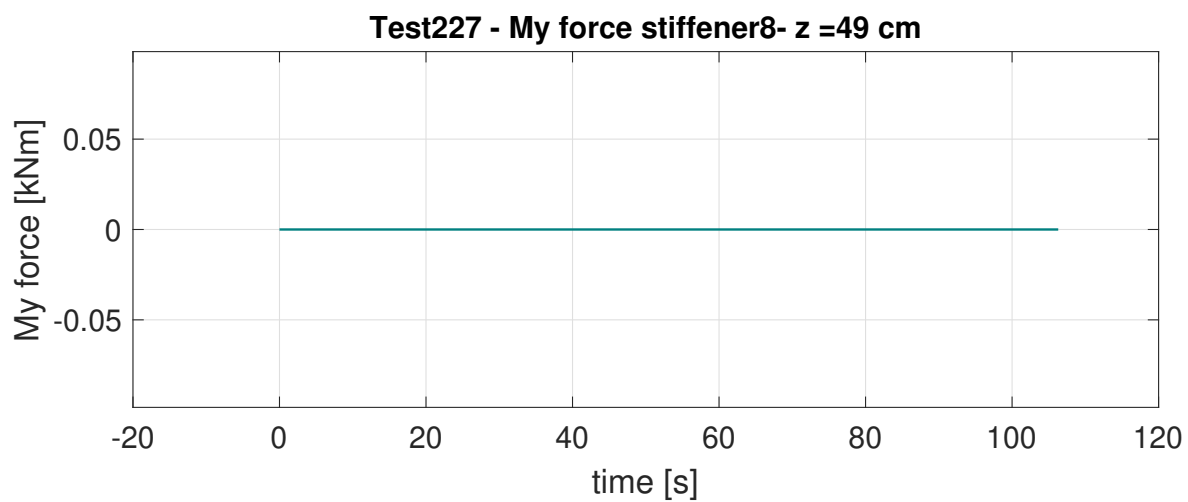
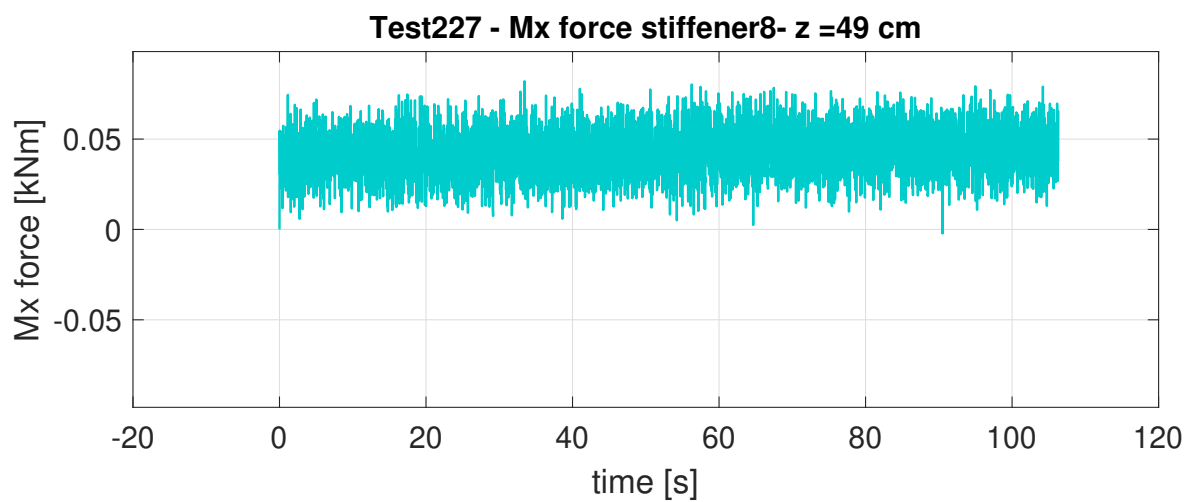
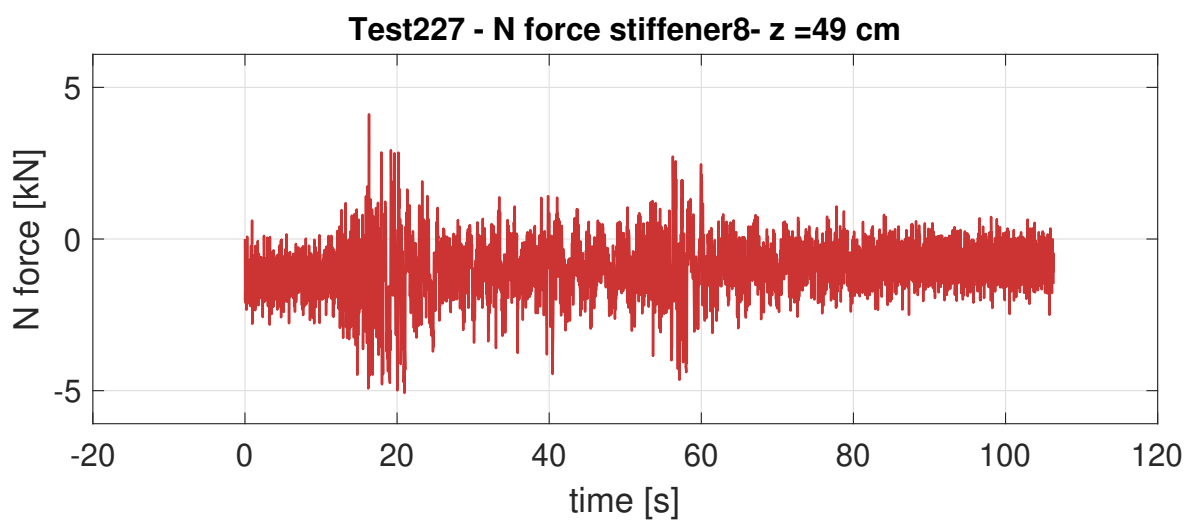


Quota z = 49 cm

– Montante numero 7

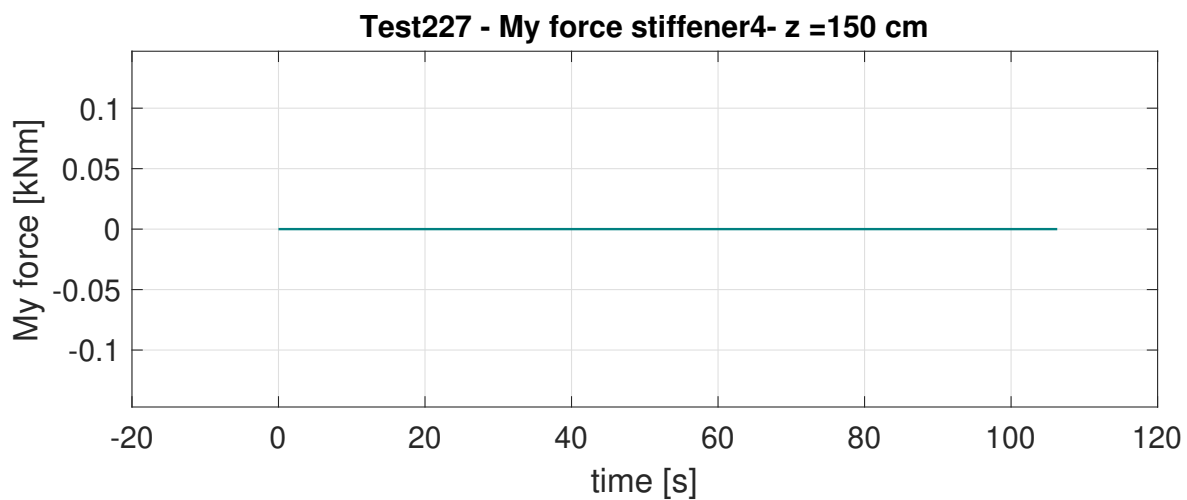
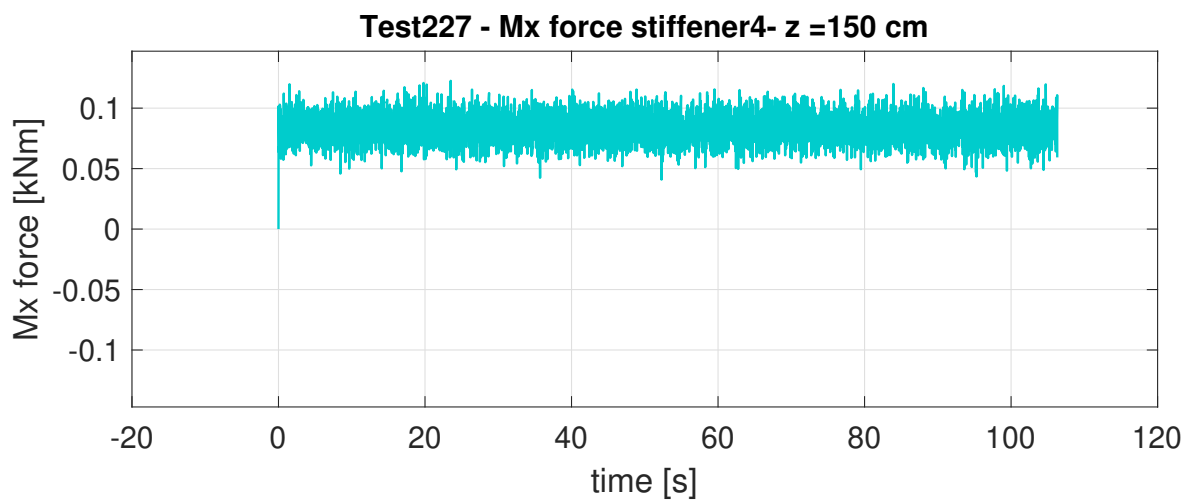
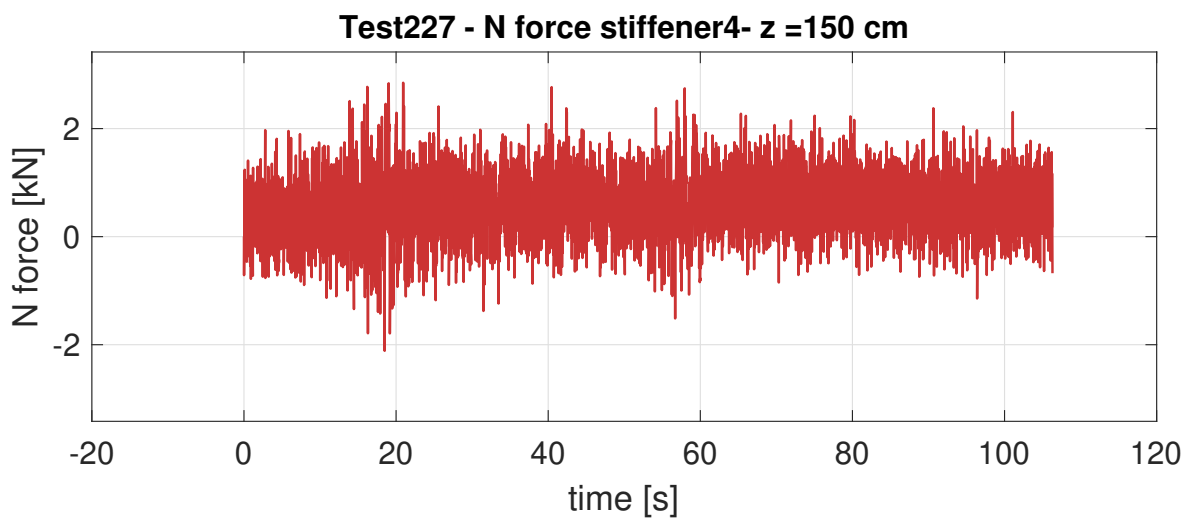


– Montante numero 8

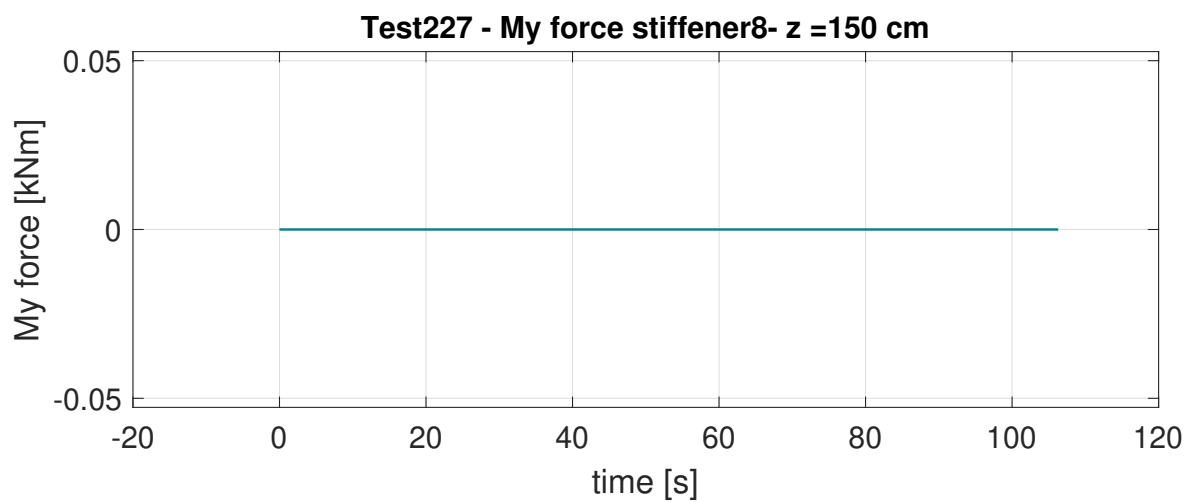
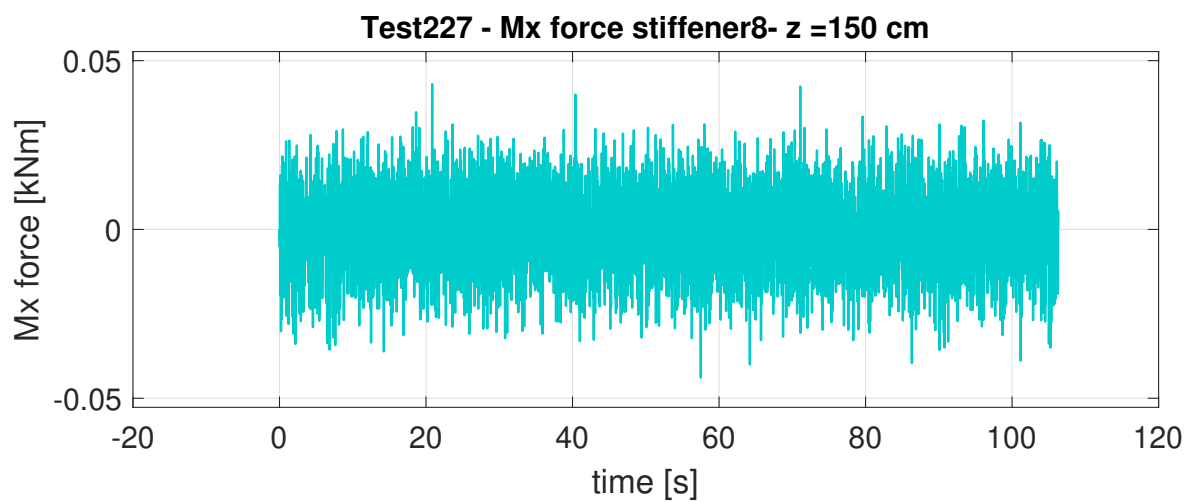
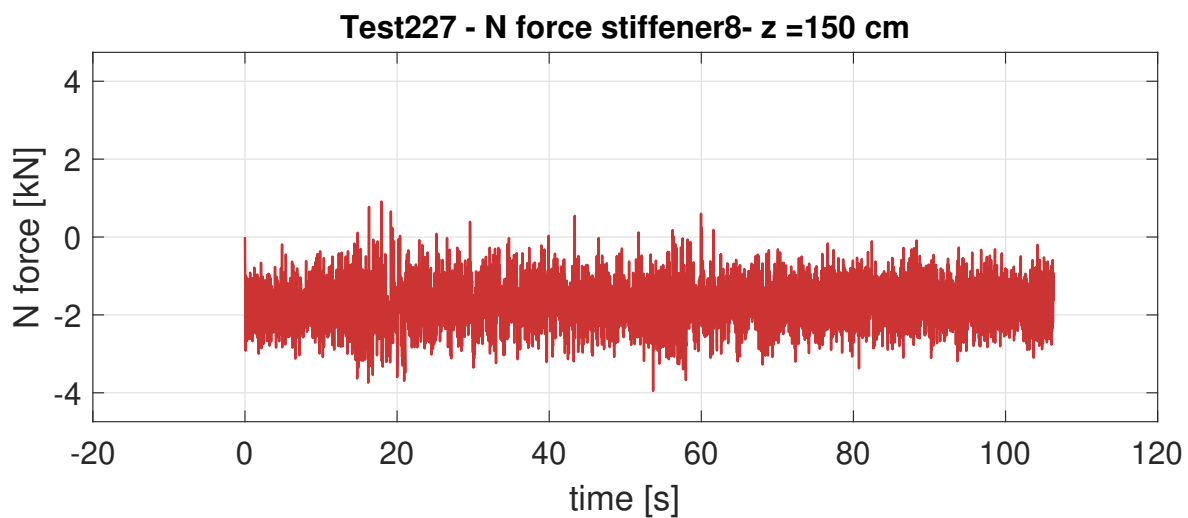


Quota z = 150 cm

– Montante numero 4

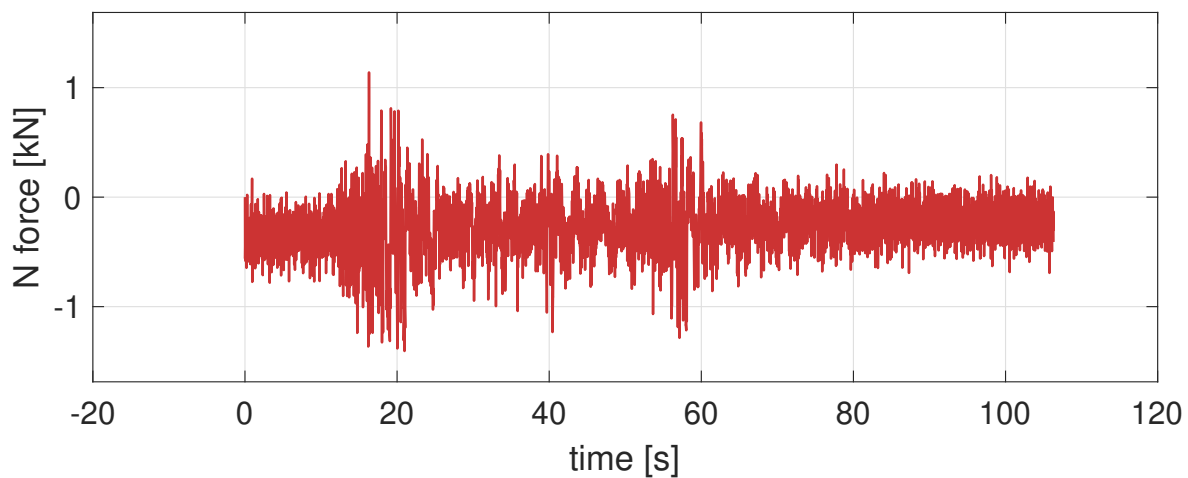
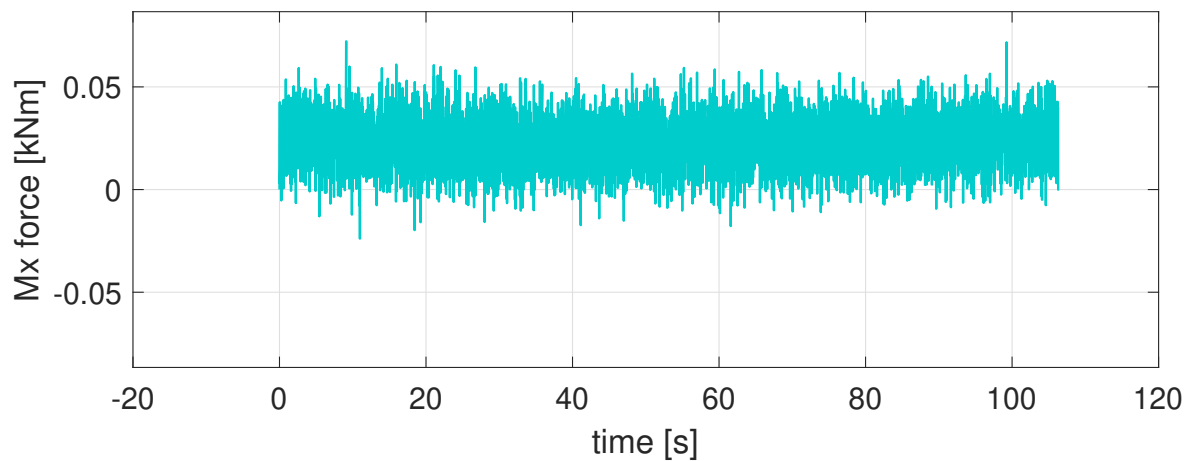
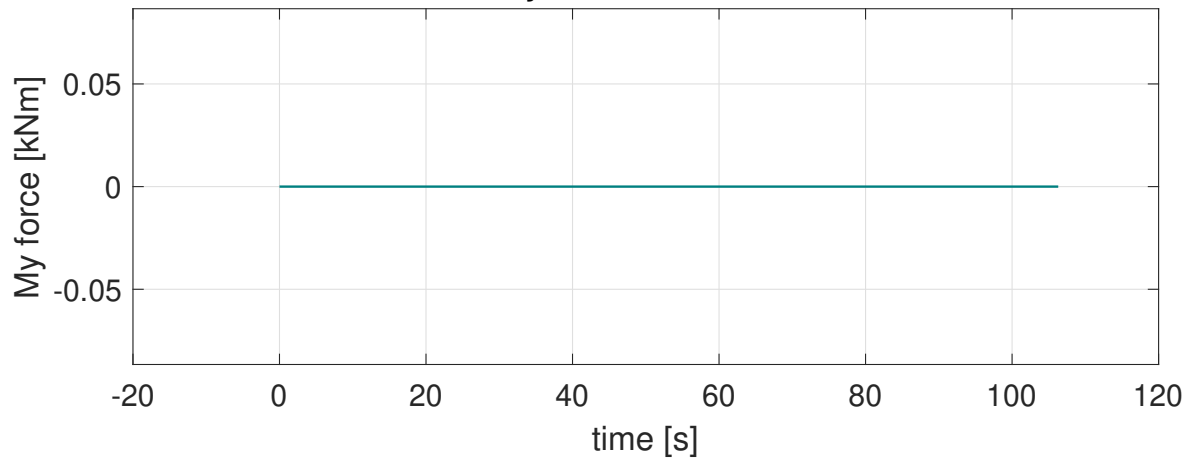


- Montante numero 8



Quota z = 250 cm

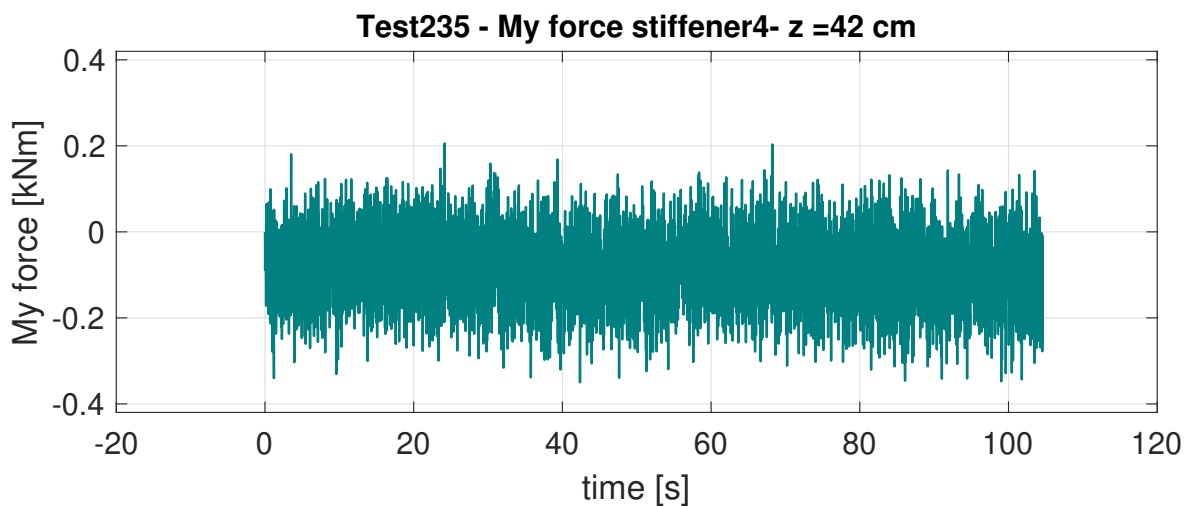
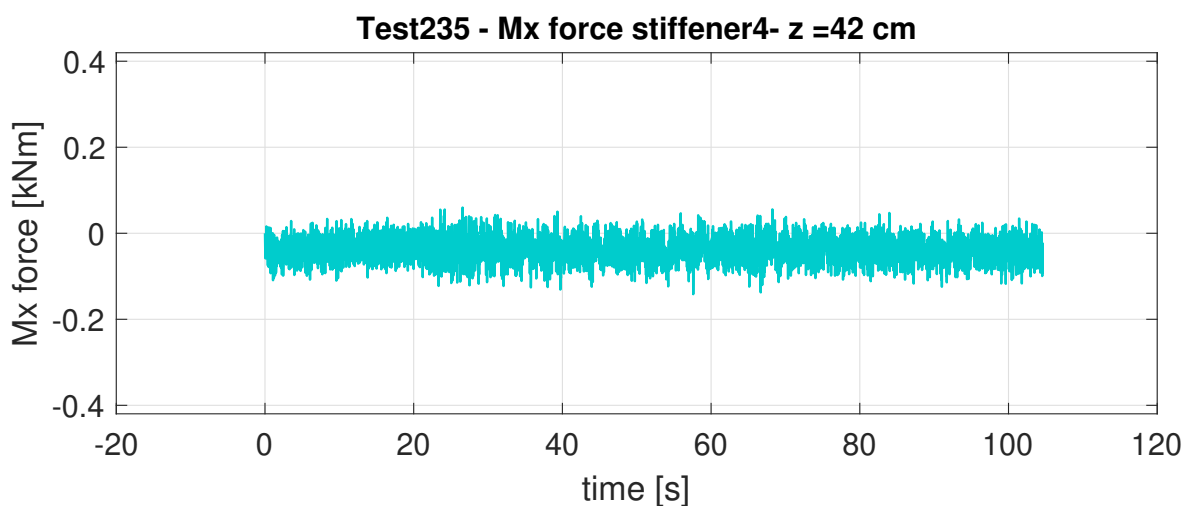
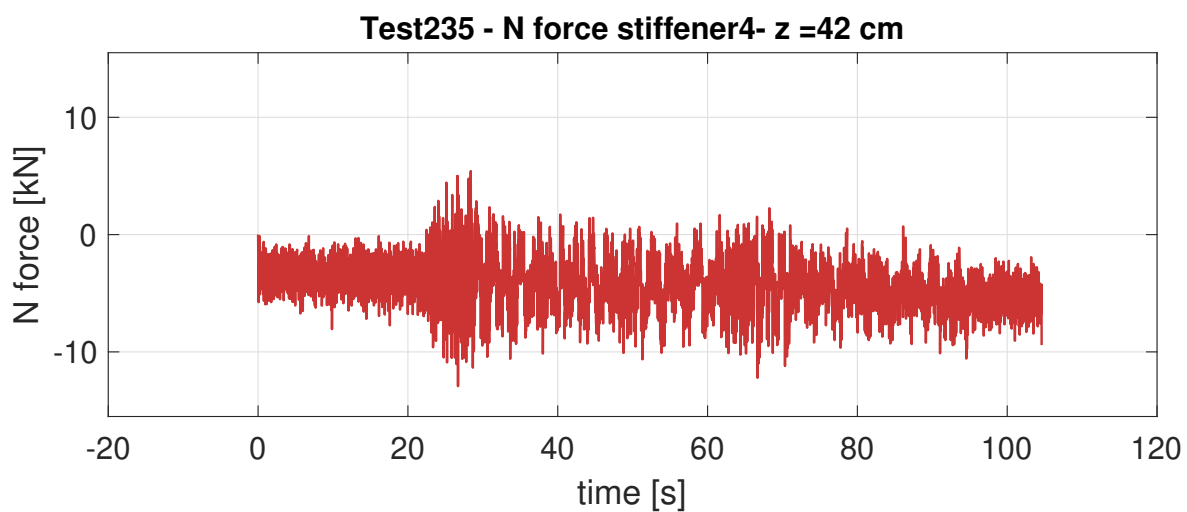
– Montante numero 8

Test227 - N force stiffener8- z =250 cm**Test227 - Mx force stiffener8- z =250 cm****Test227 - My force stiffener8- z =250 cm**

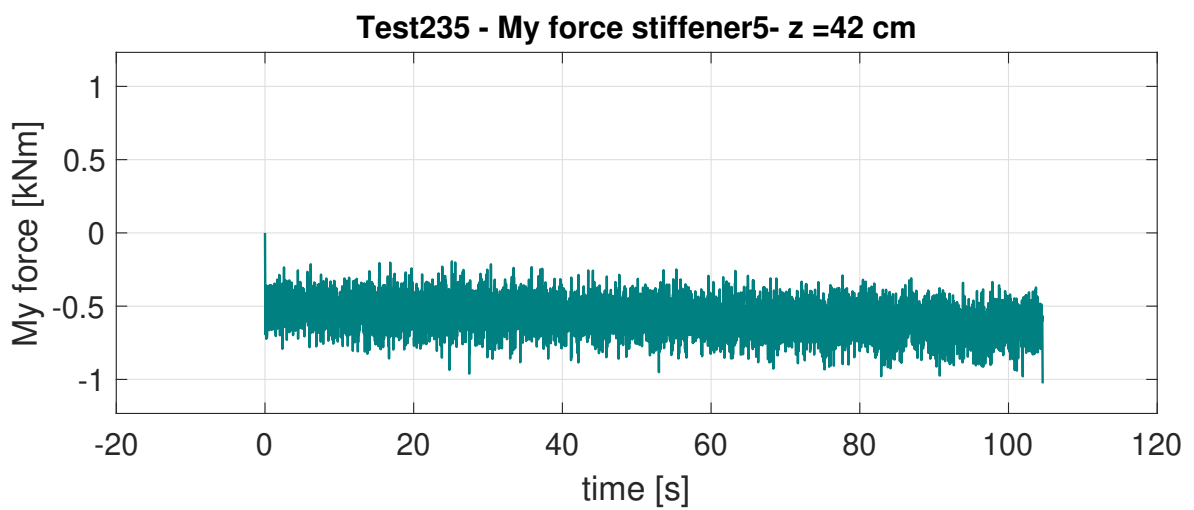
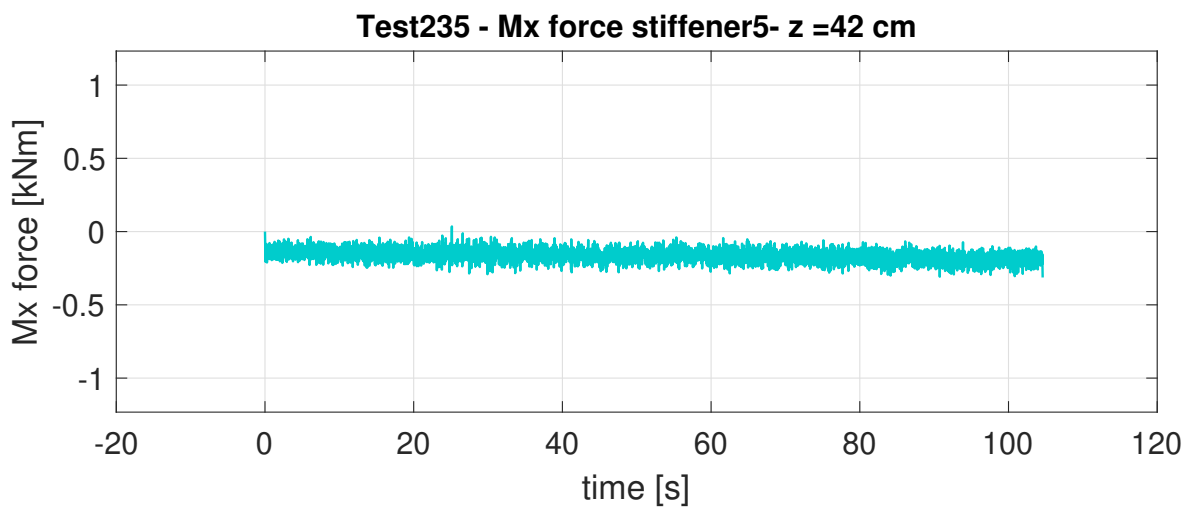
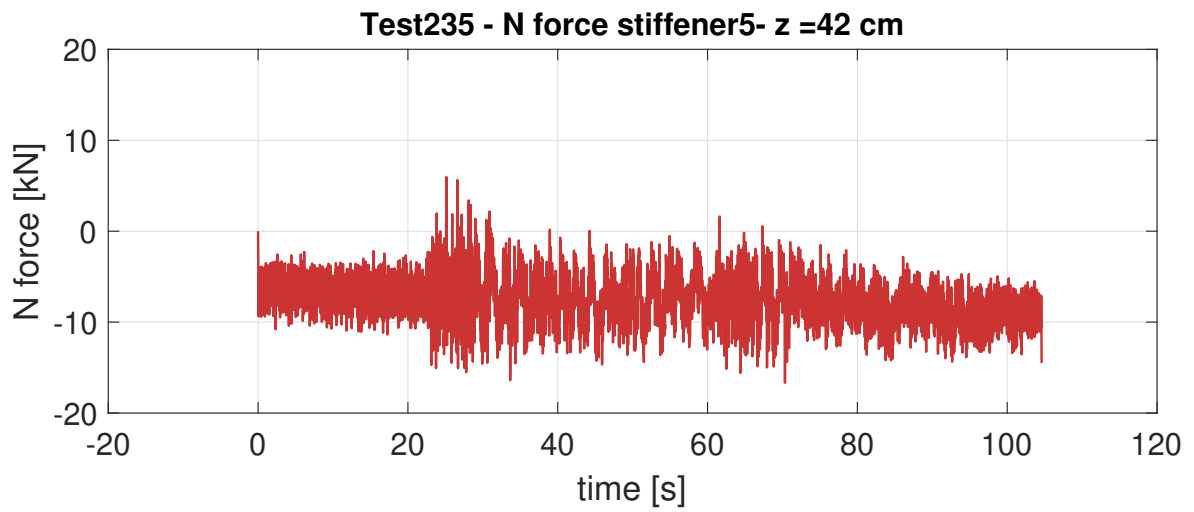
- Terremoto RS1 0.3 g

Quota z = 42 cm

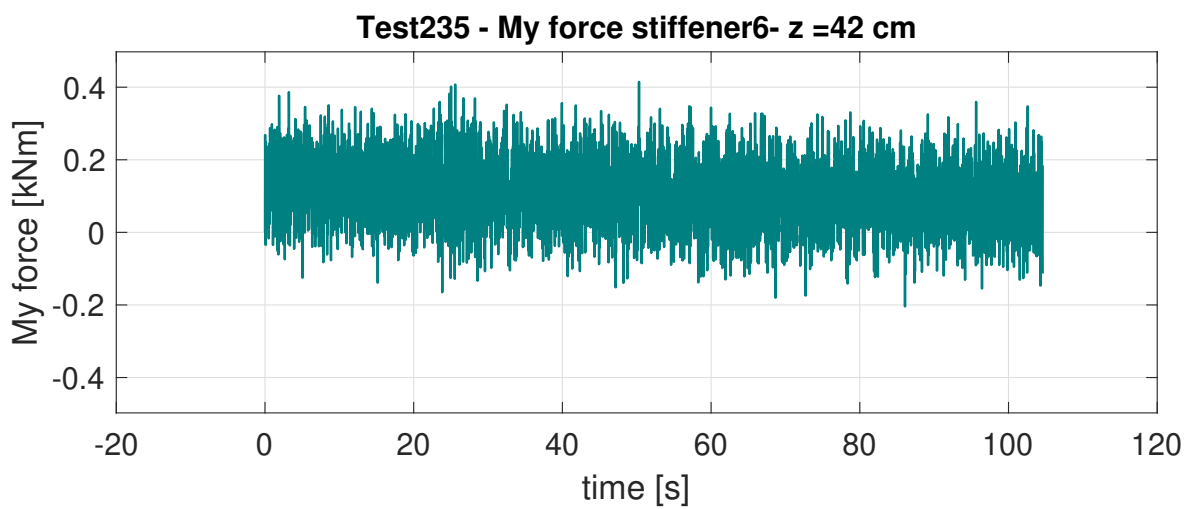
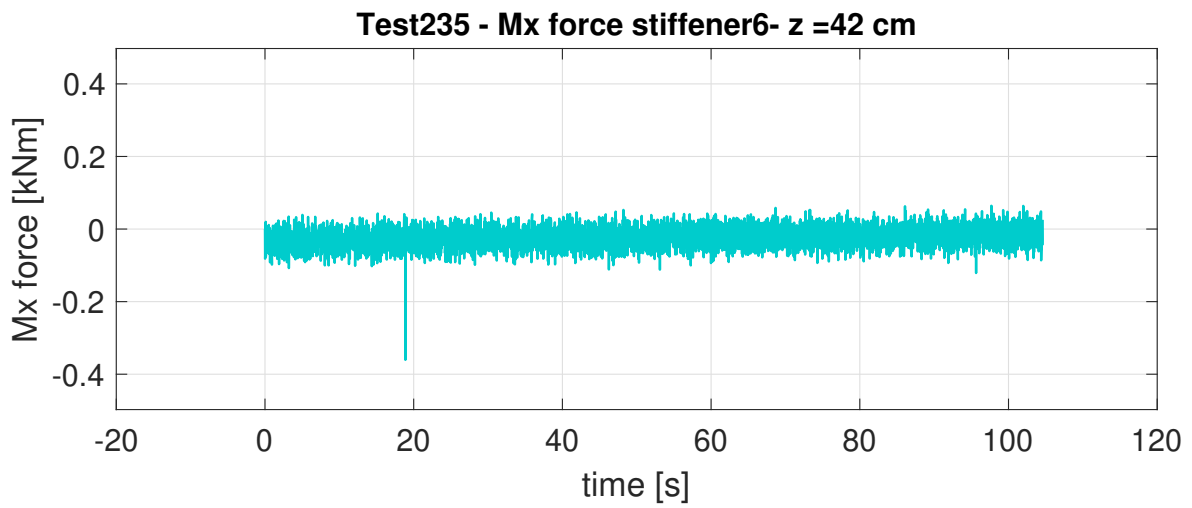
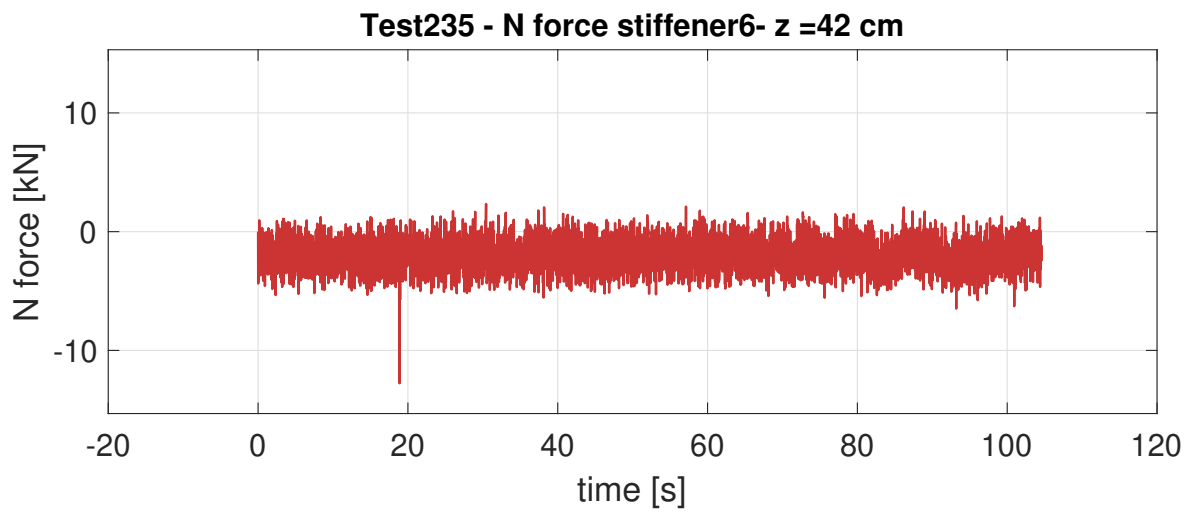
– Montante numero 4



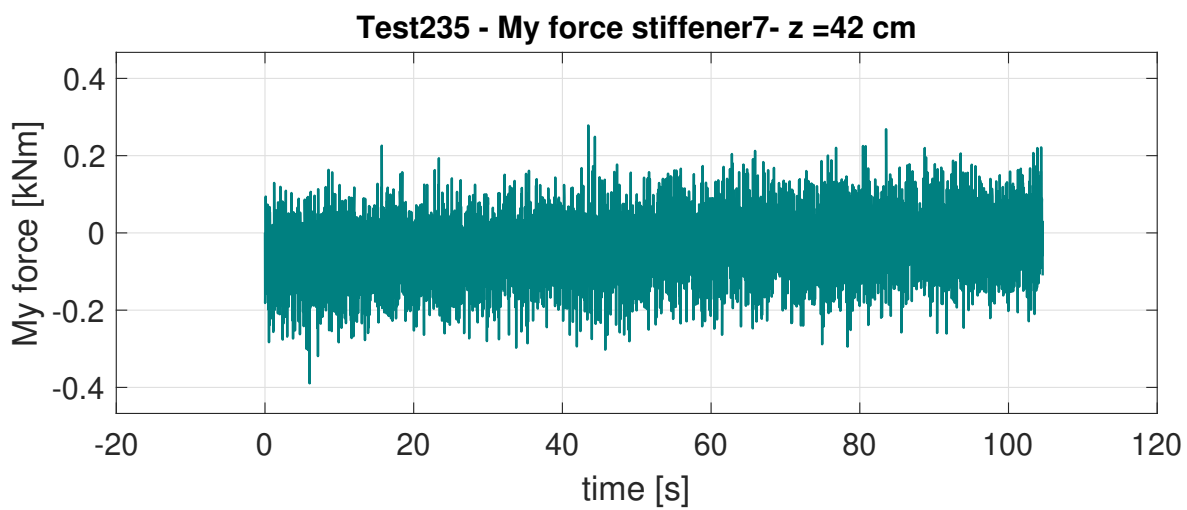
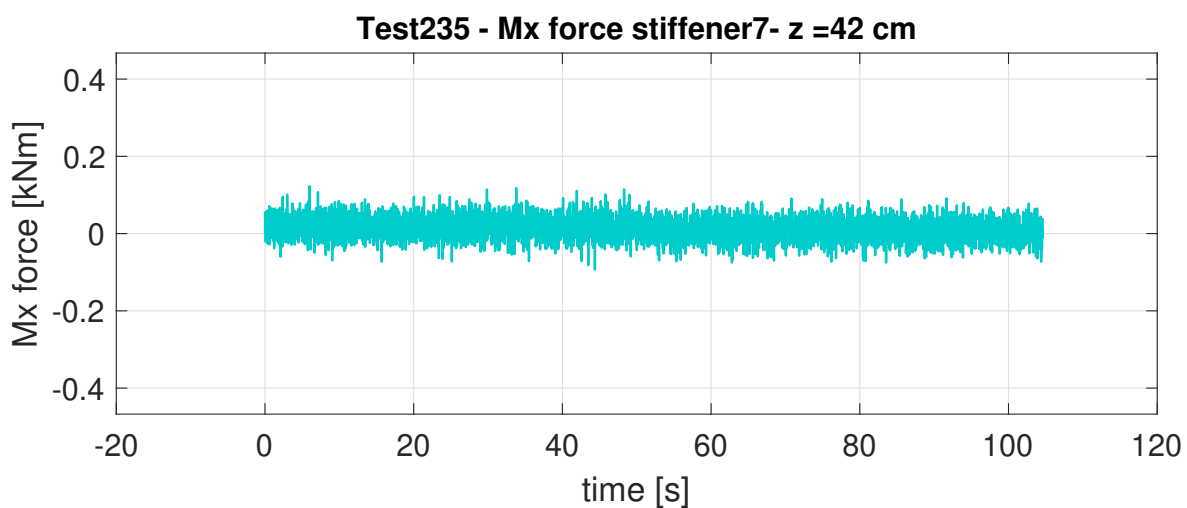
- Montante numero 5



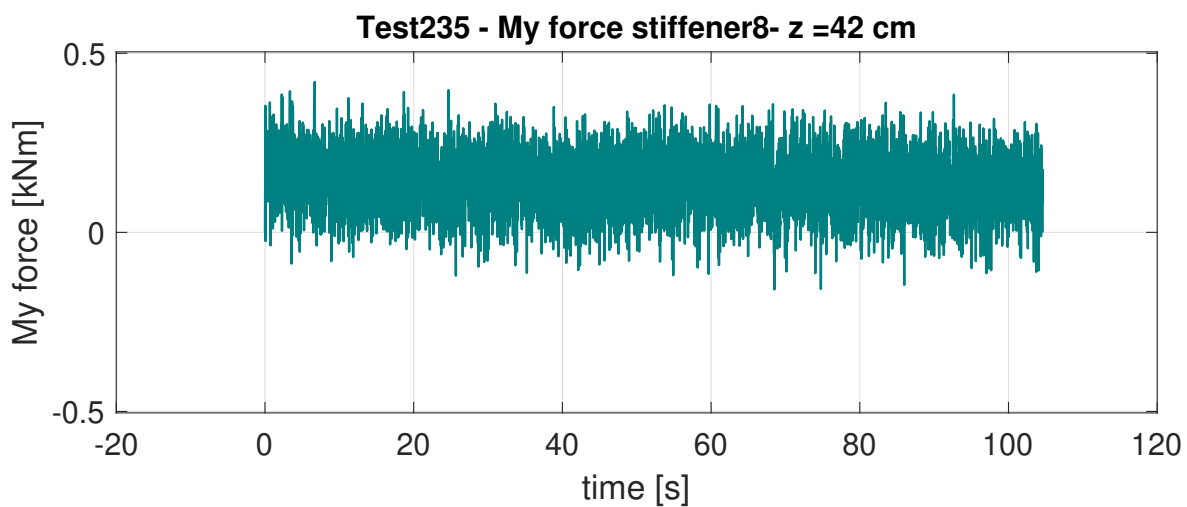
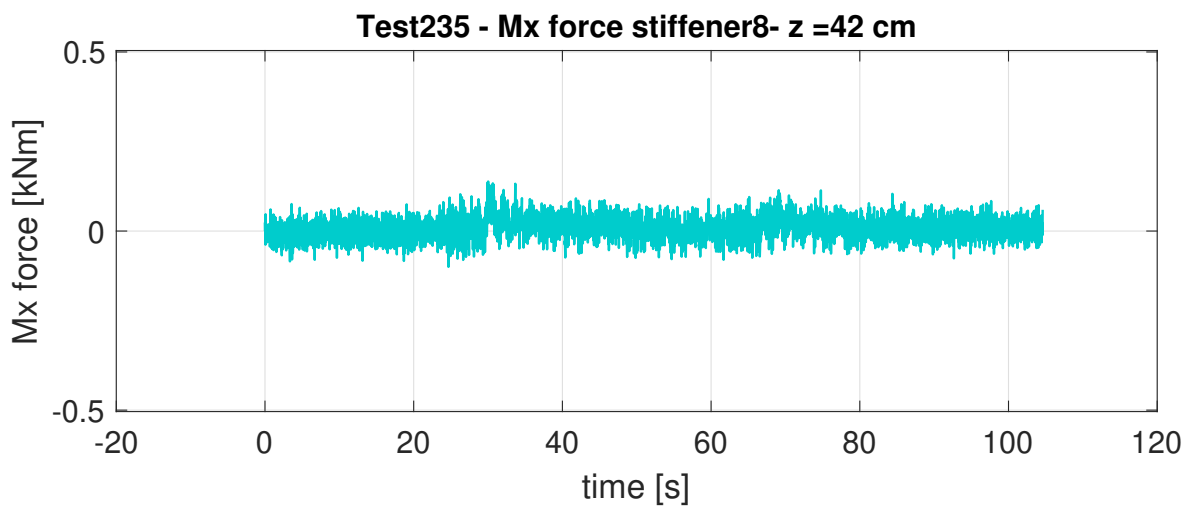
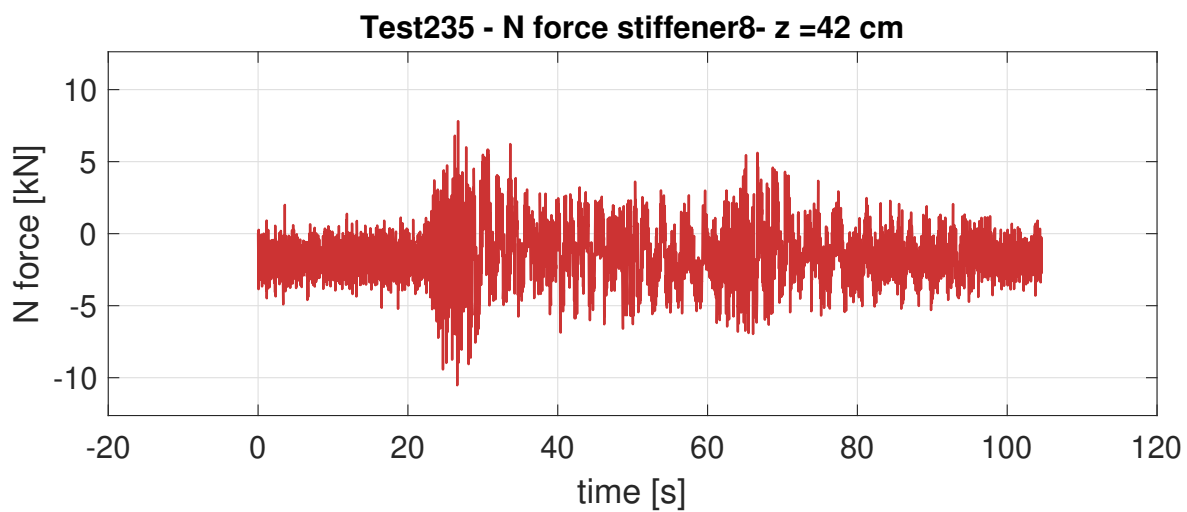
– Montante numero 6



- Montante numero 7

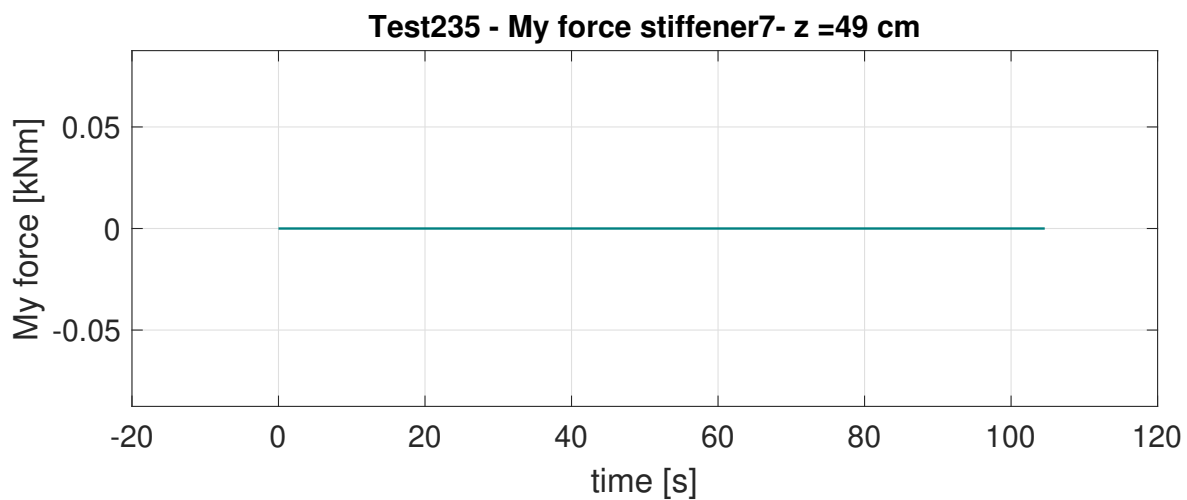
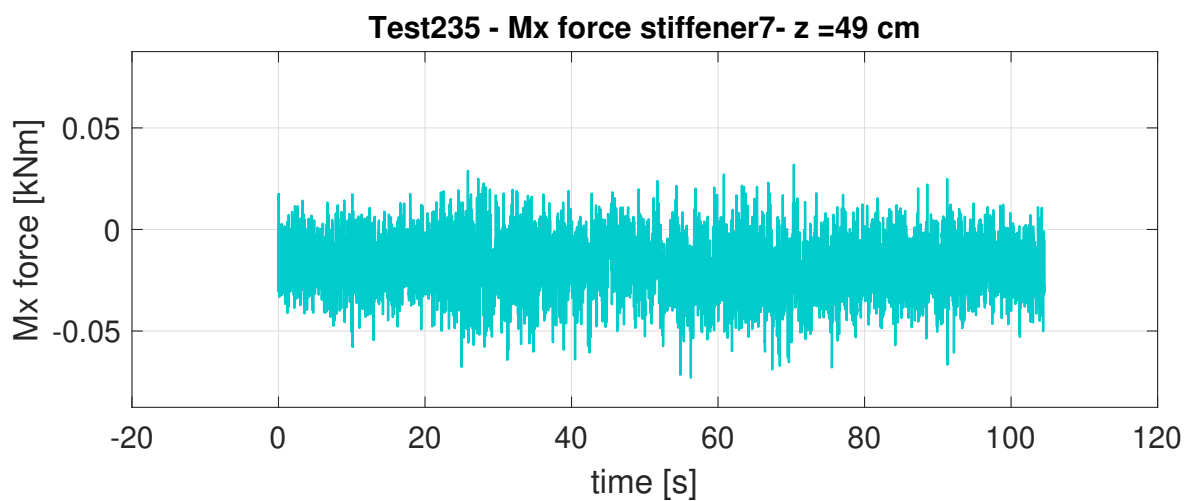
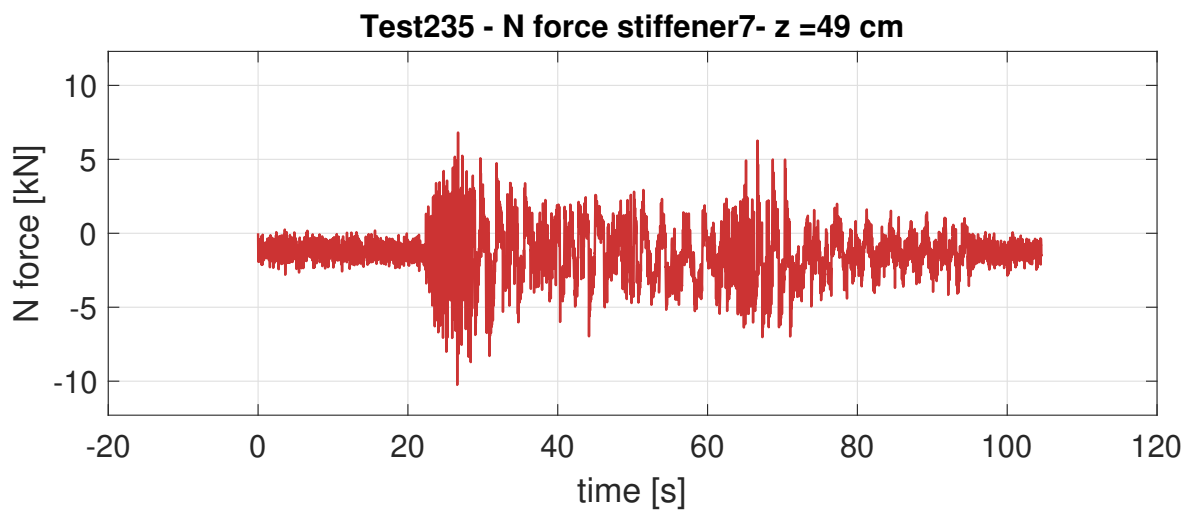


– Montante numero 8

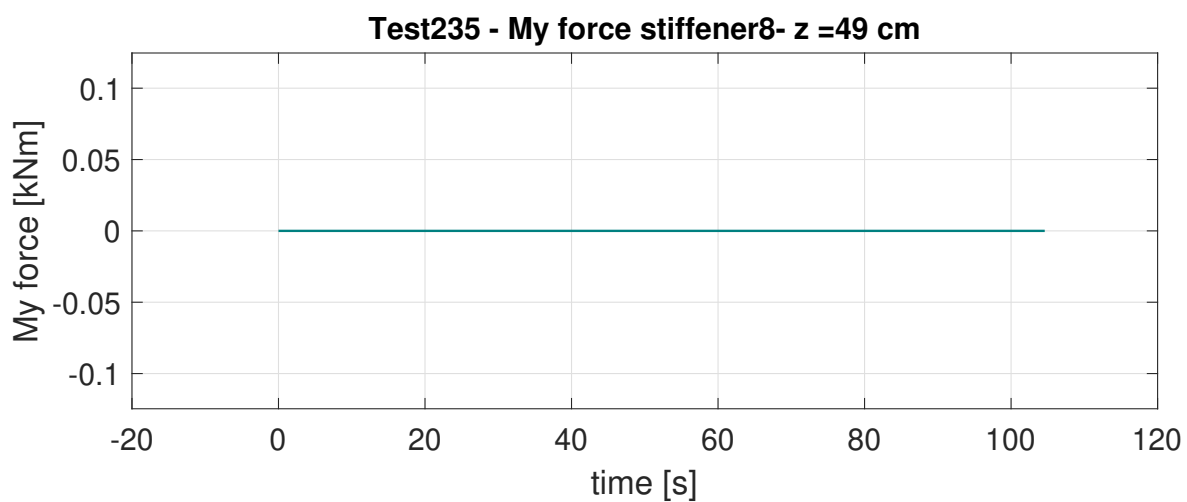
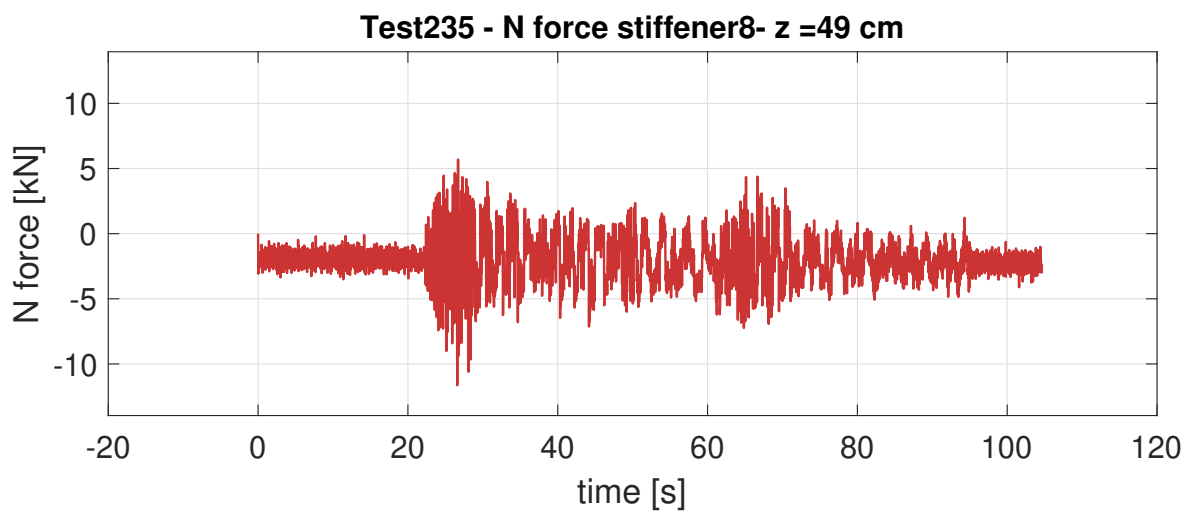


Quota z = 49 cm

– Montante numero 7

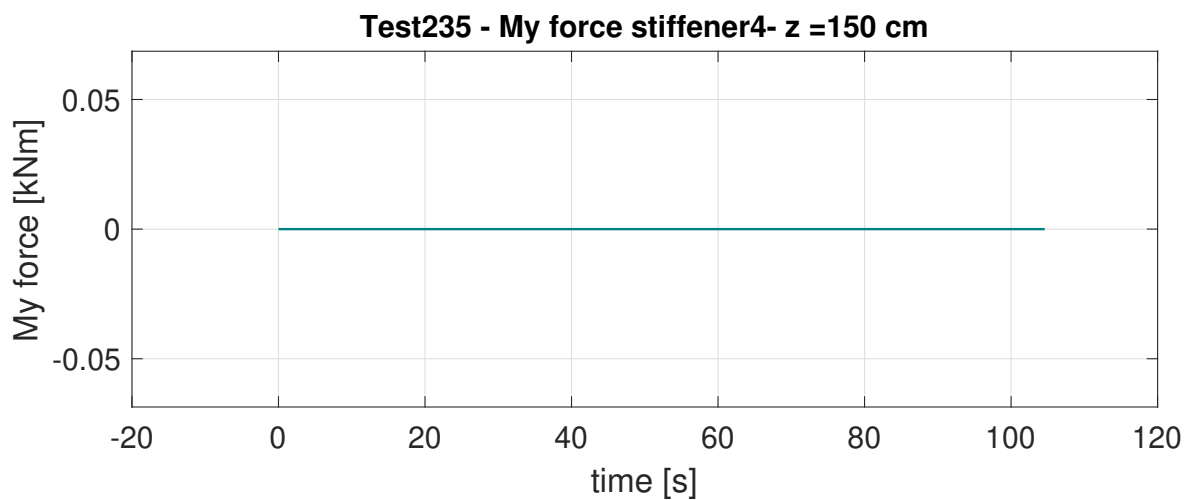
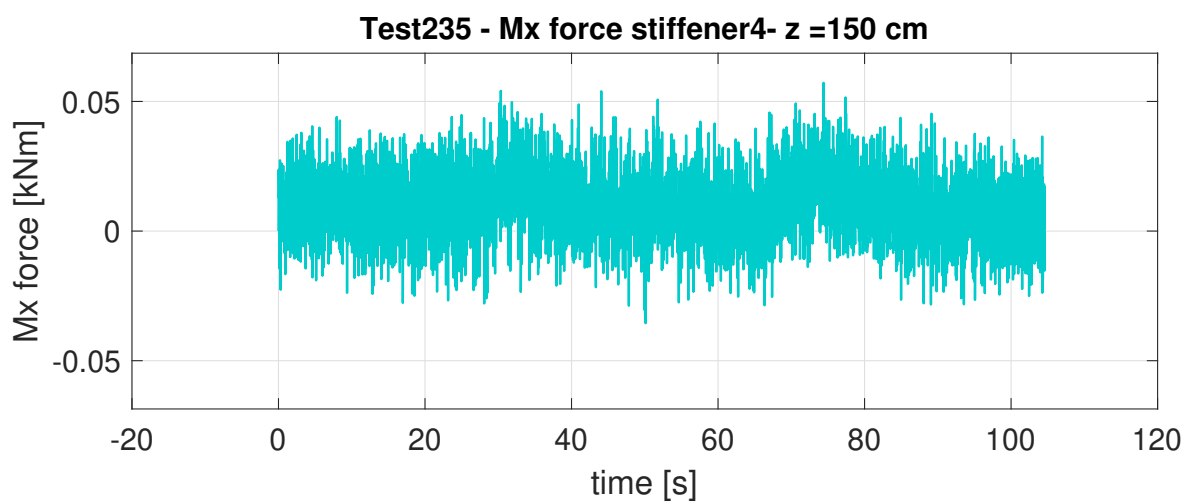
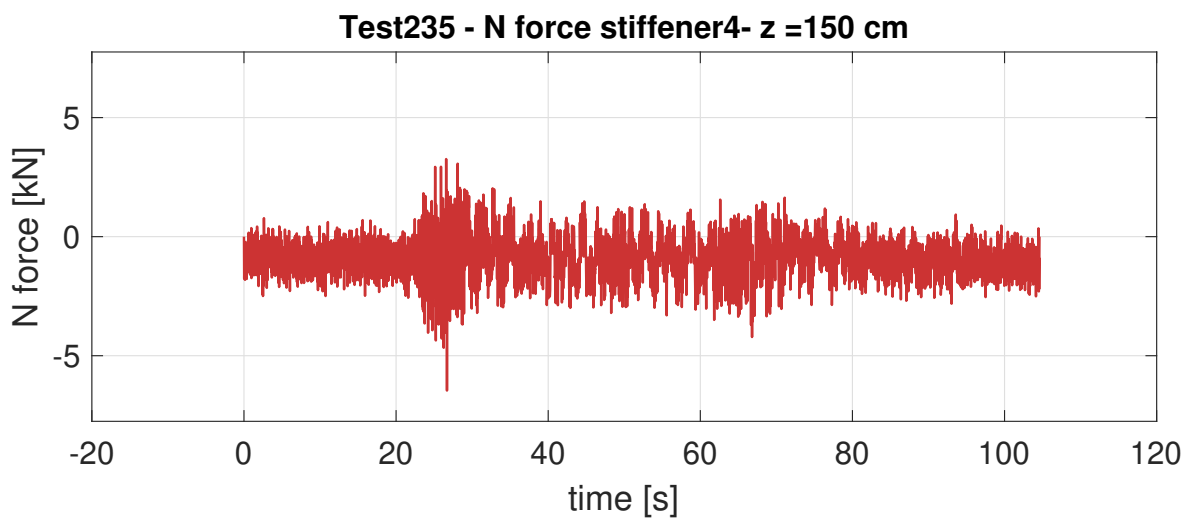


- Montante numero 8

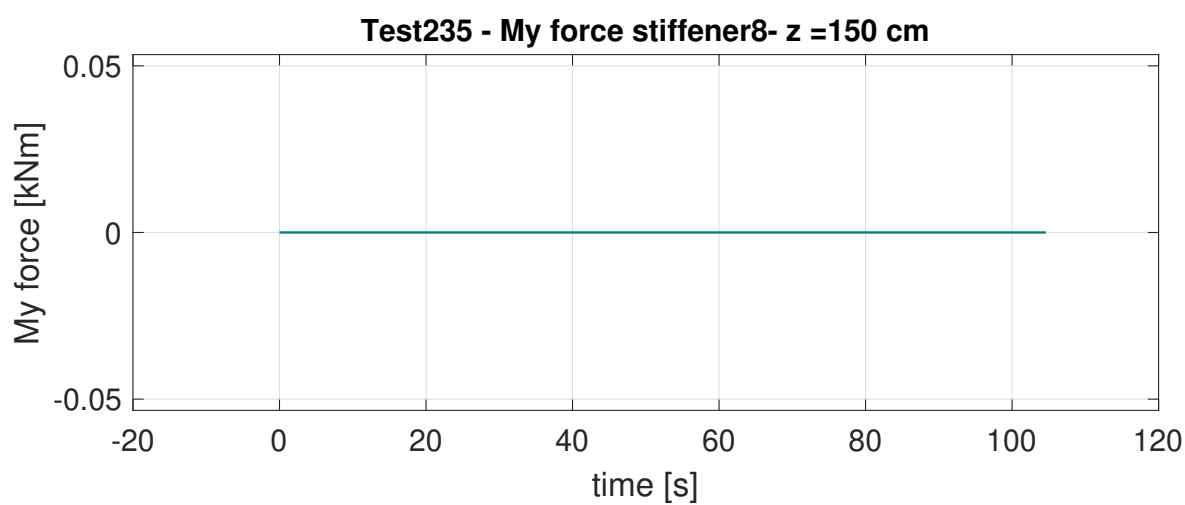
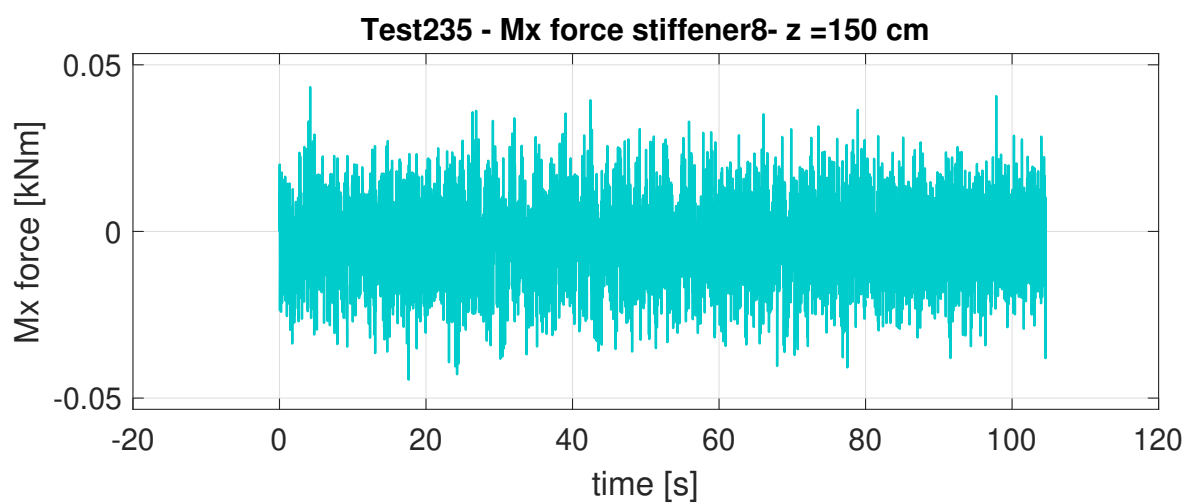
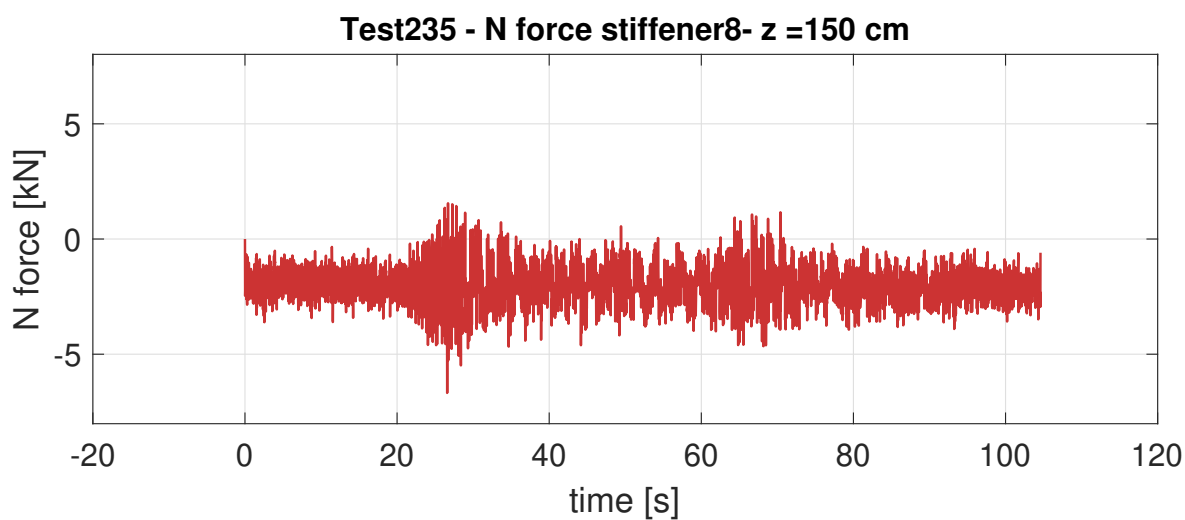


Quota z = 150 cm

– Montante numero 4

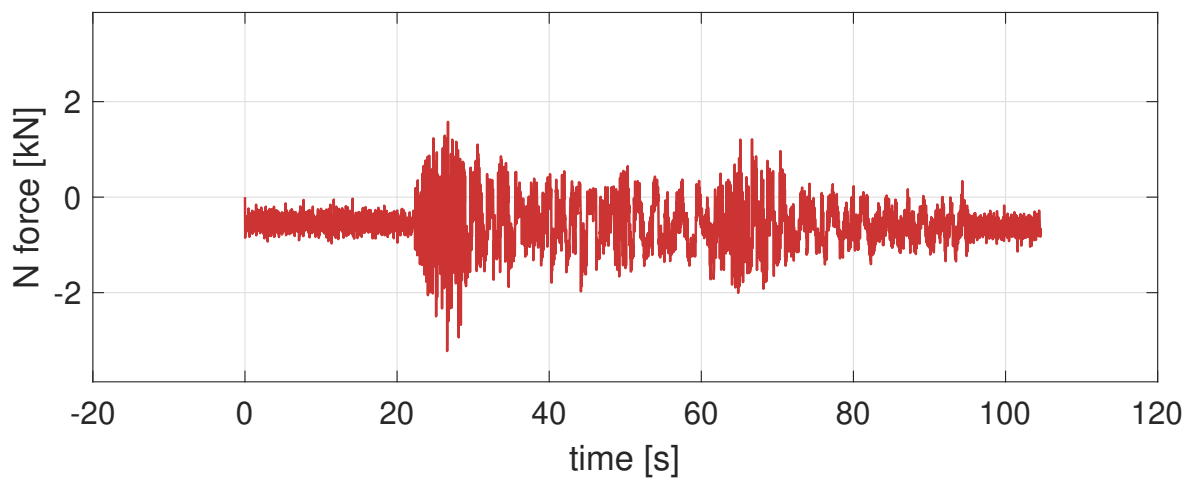
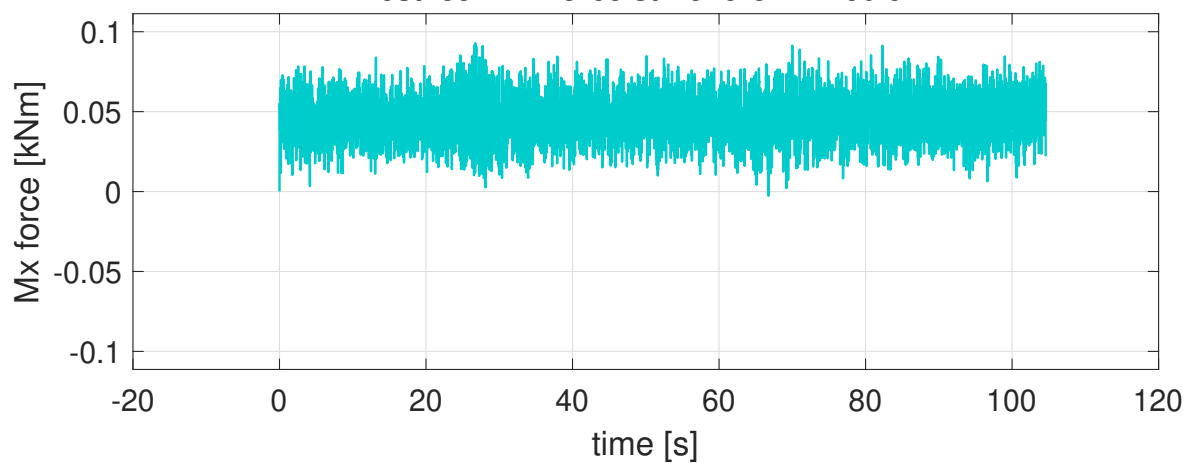
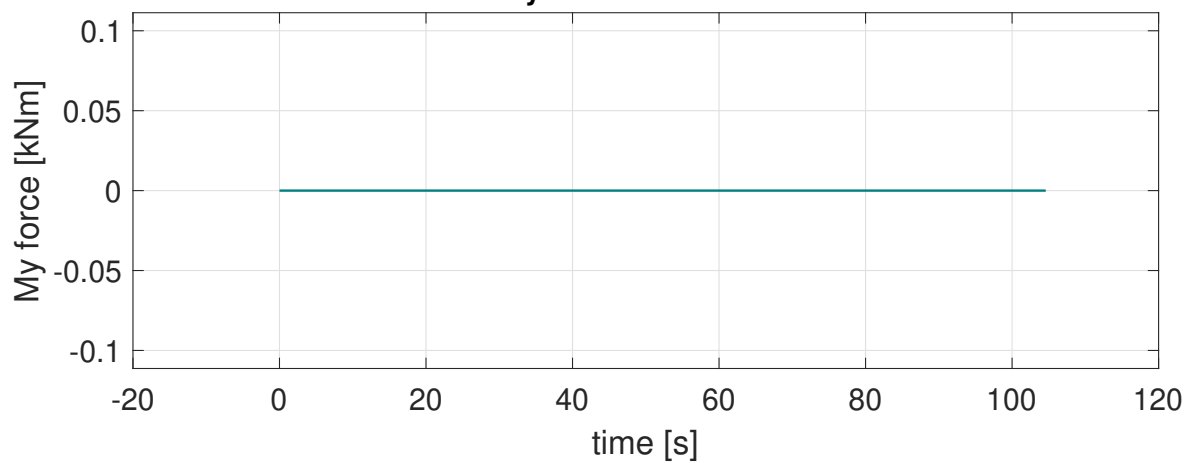


– Montante numero 8



Quota z = 250 cm

– Montante numero 8

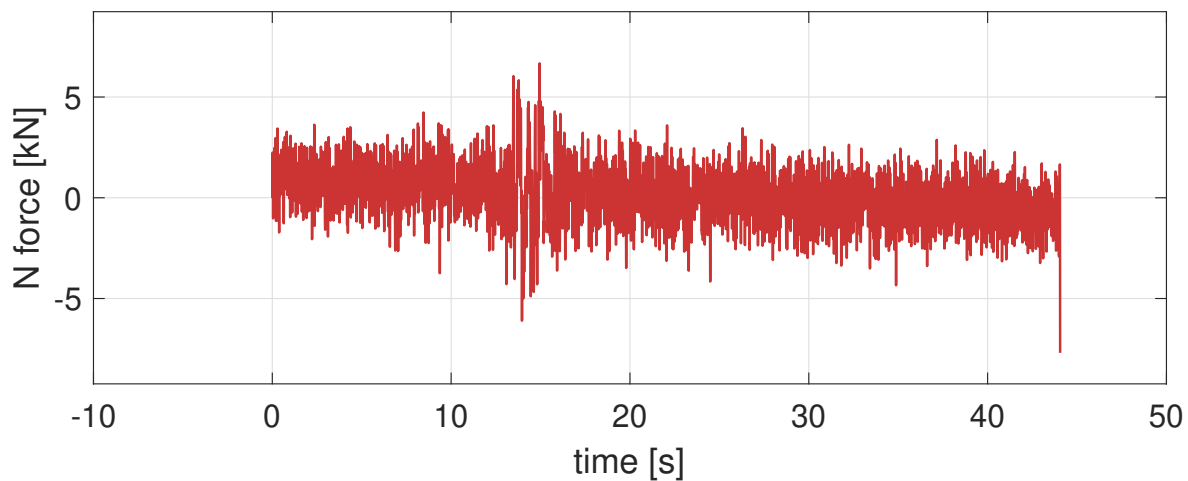
Test235 - N force stiffener8- z =250 cm**Test235 - Mx force stiffener8- z =250 cm****Test235 - My force stiffener8- z =250 cm**

- Terremoto RS3 0.1 g

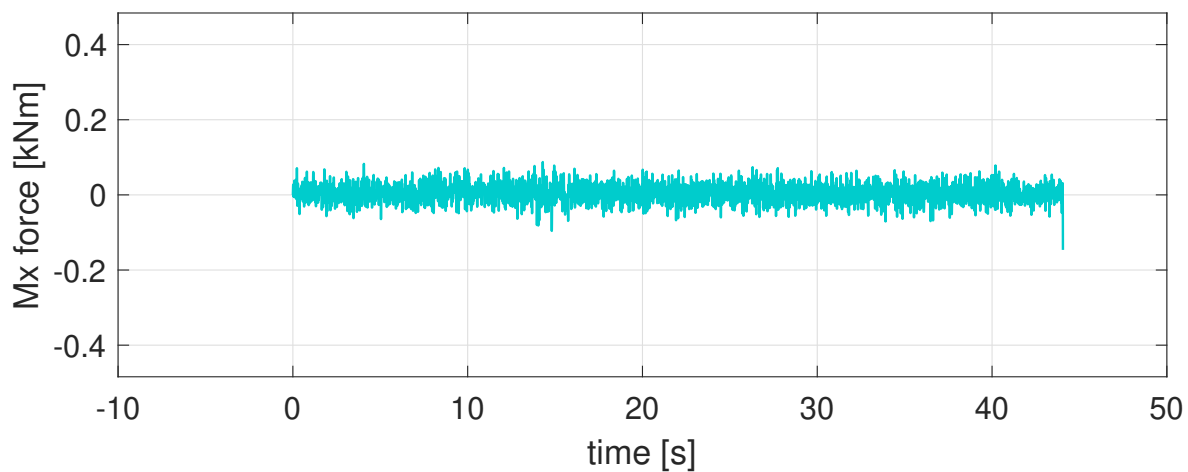
Quota z = 42 cm

– Montante numero 4

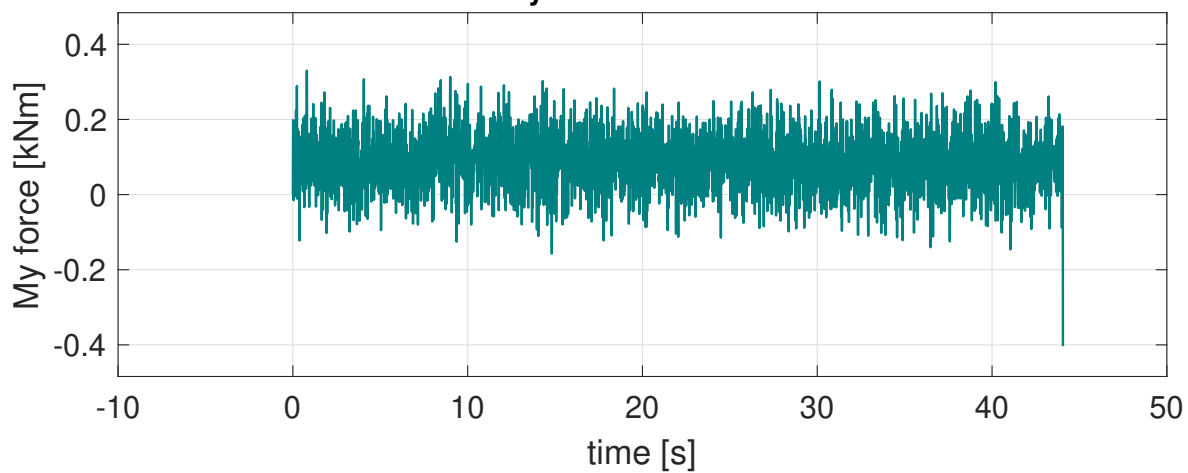
Test205 - N force stiffener4- z =42 cm



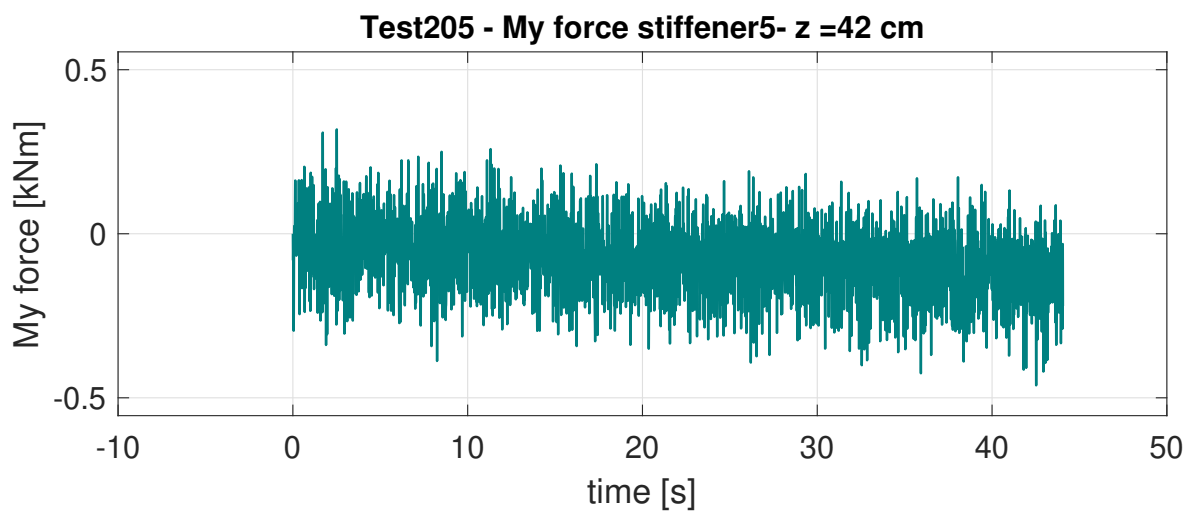
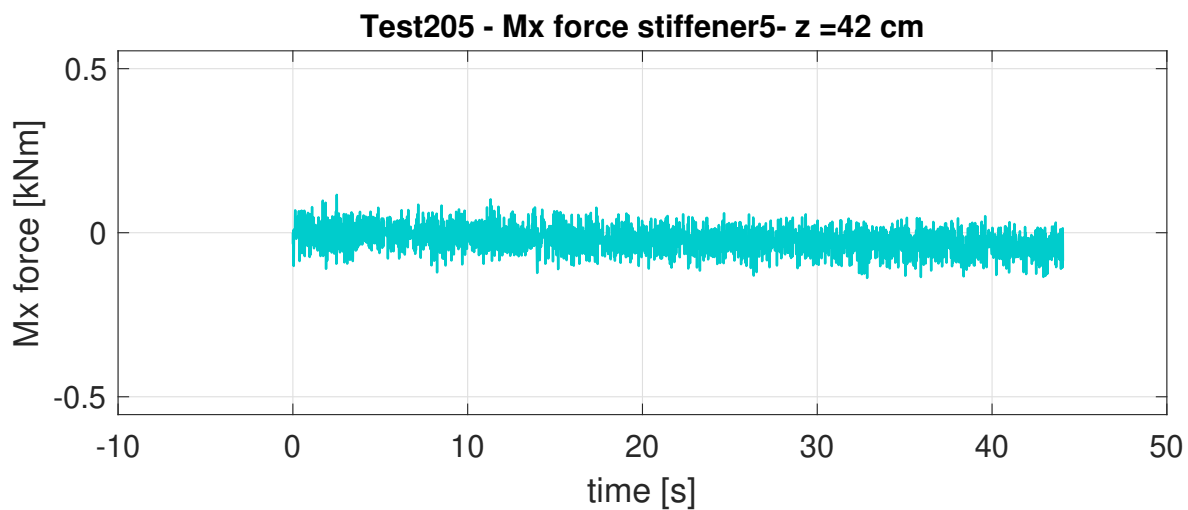
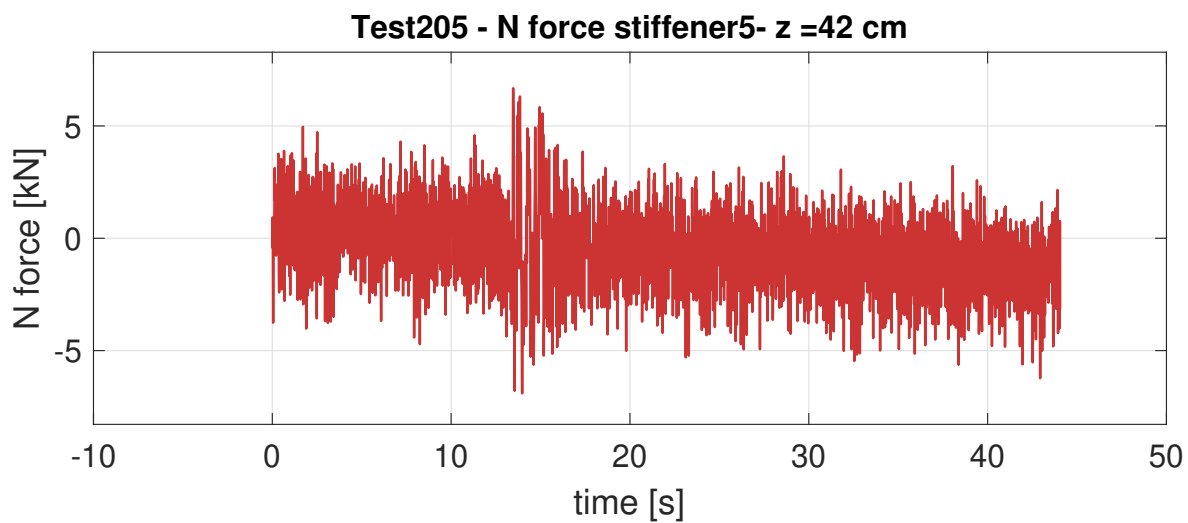
Test205 - Mx force stiffener4- z =42 cm



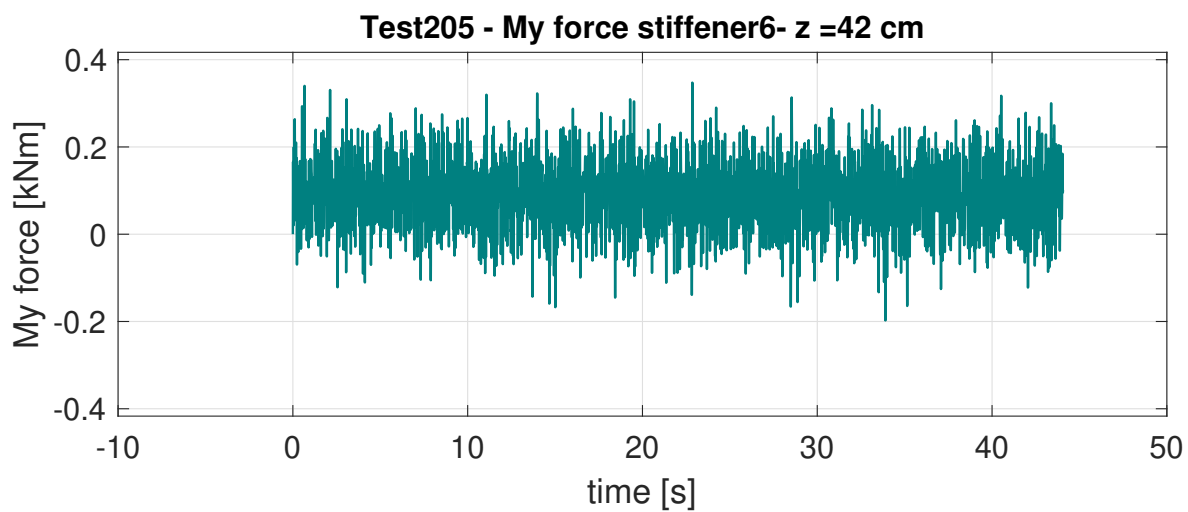
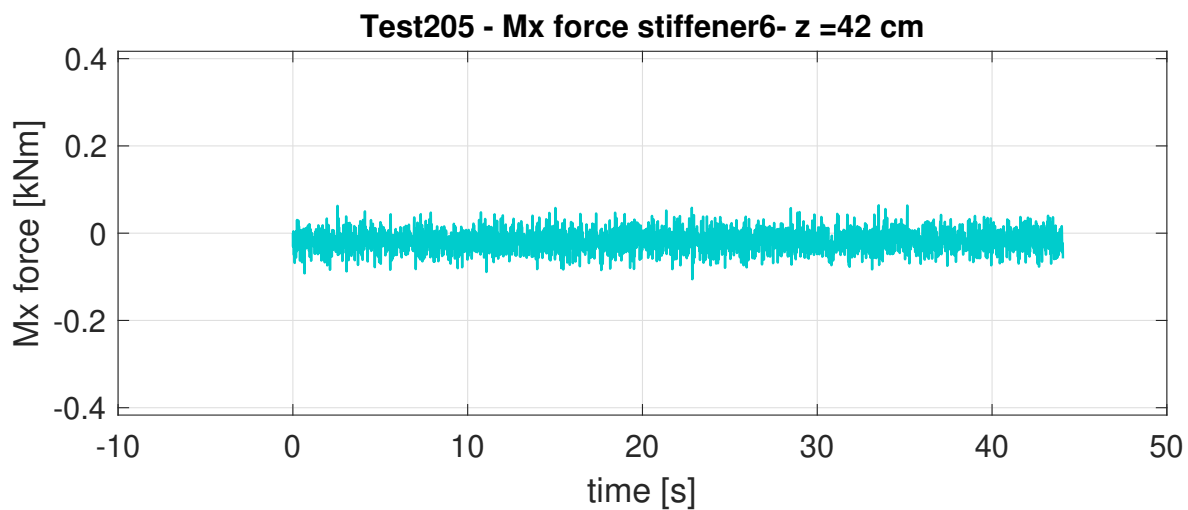
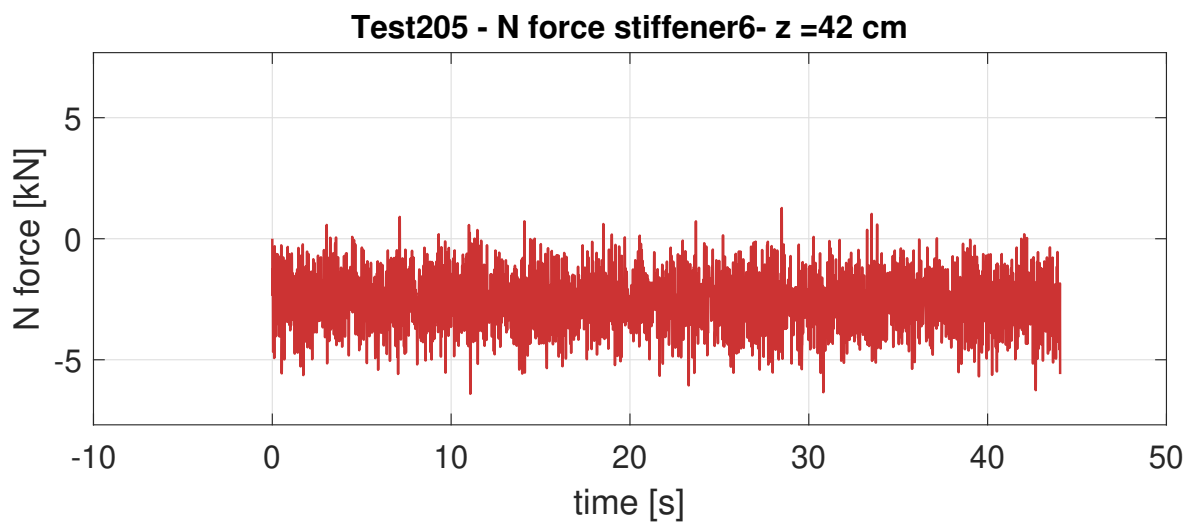
Test205 - My force stiffener4- z =42 cm



- Montante numero 5

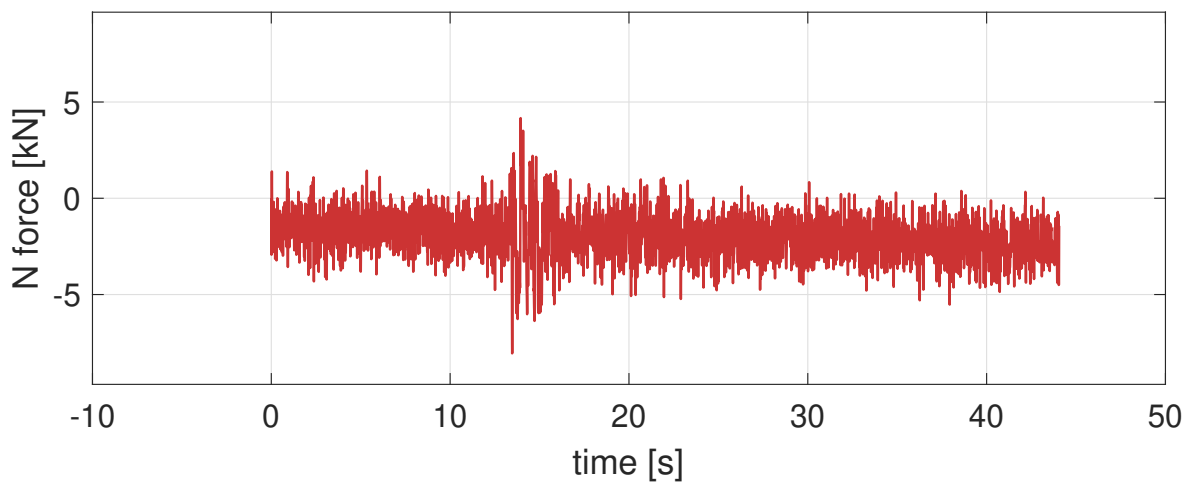


- Montante numero 6

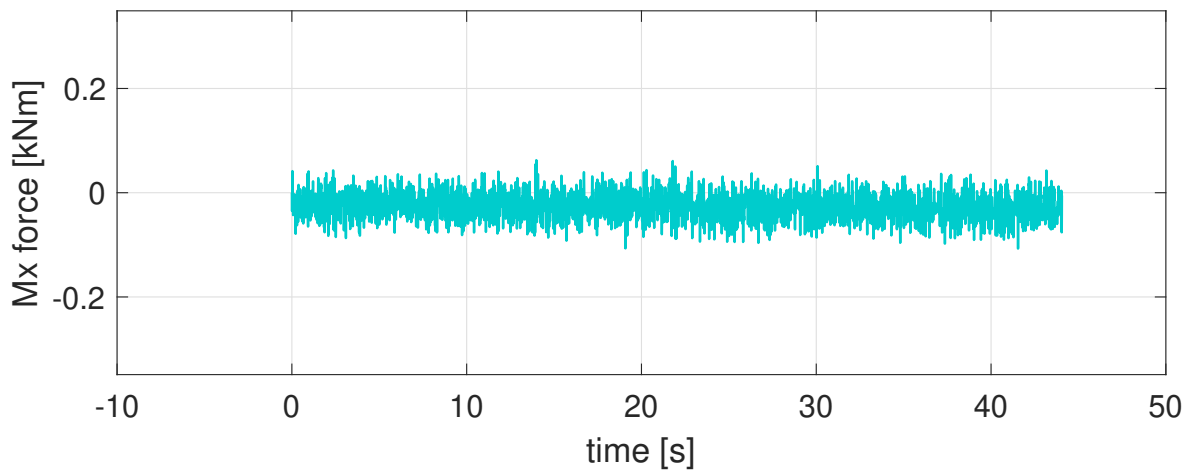


- Montante numero 7

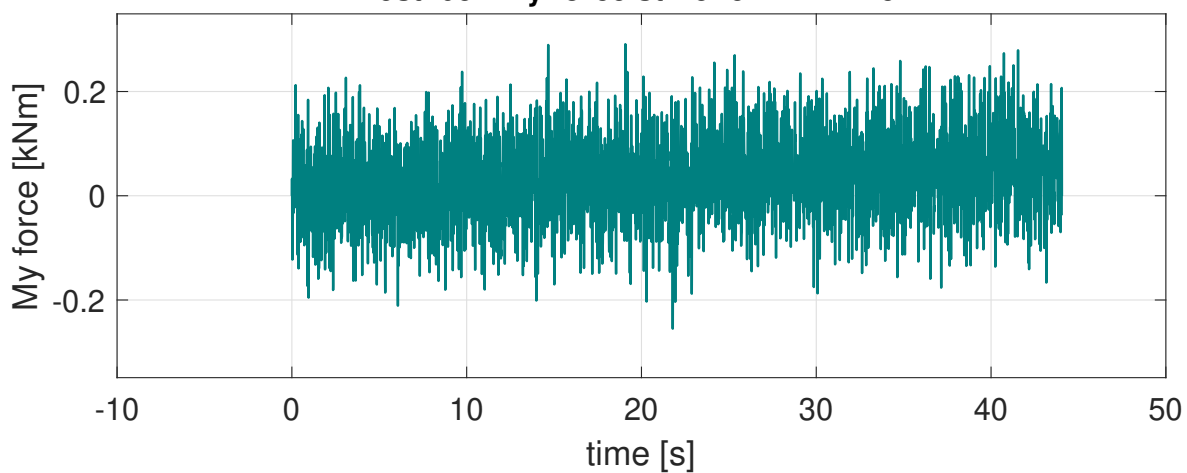
Test205 - N force stiffener7- z =42 cm



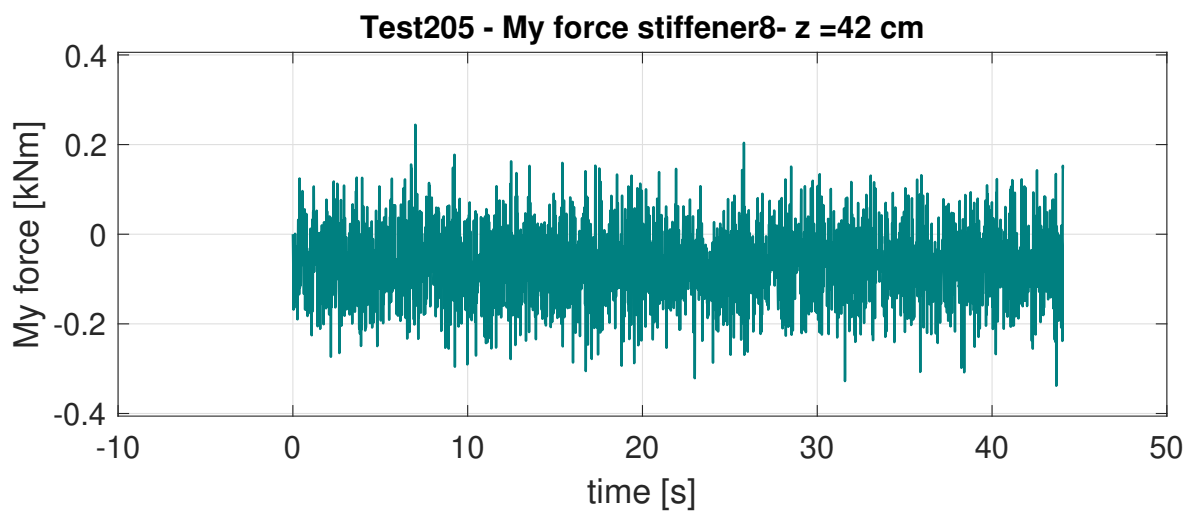
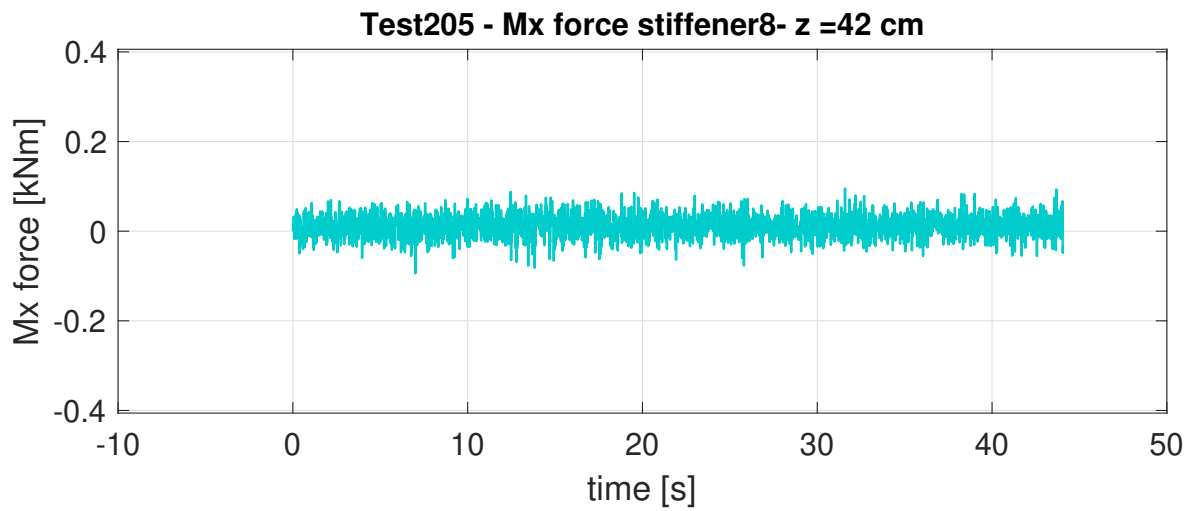
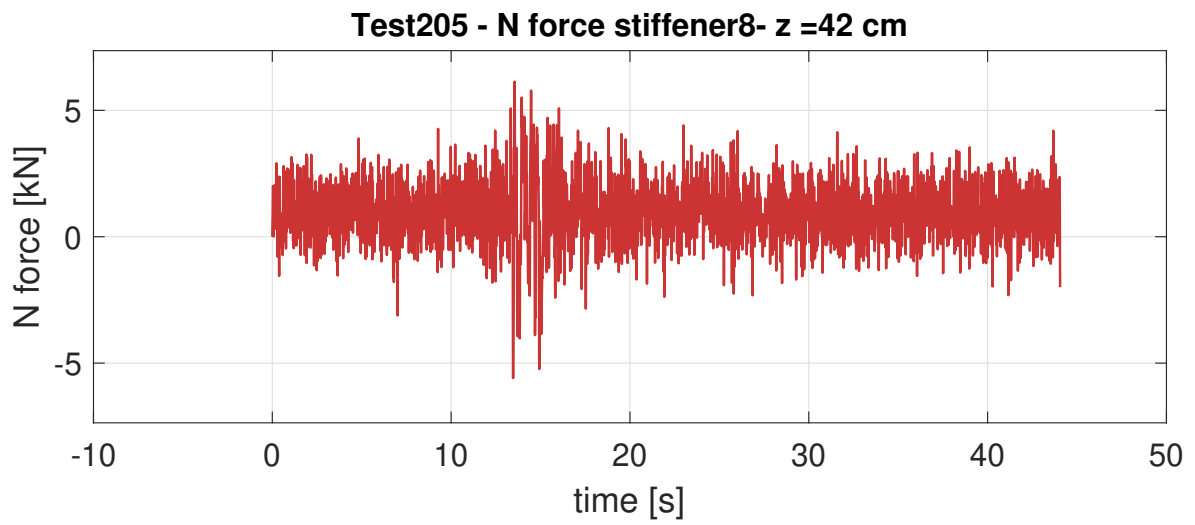
Test205 - Mx force stiffener7- z =42 cm



Test205 - My force stiffener7- z =42 cm

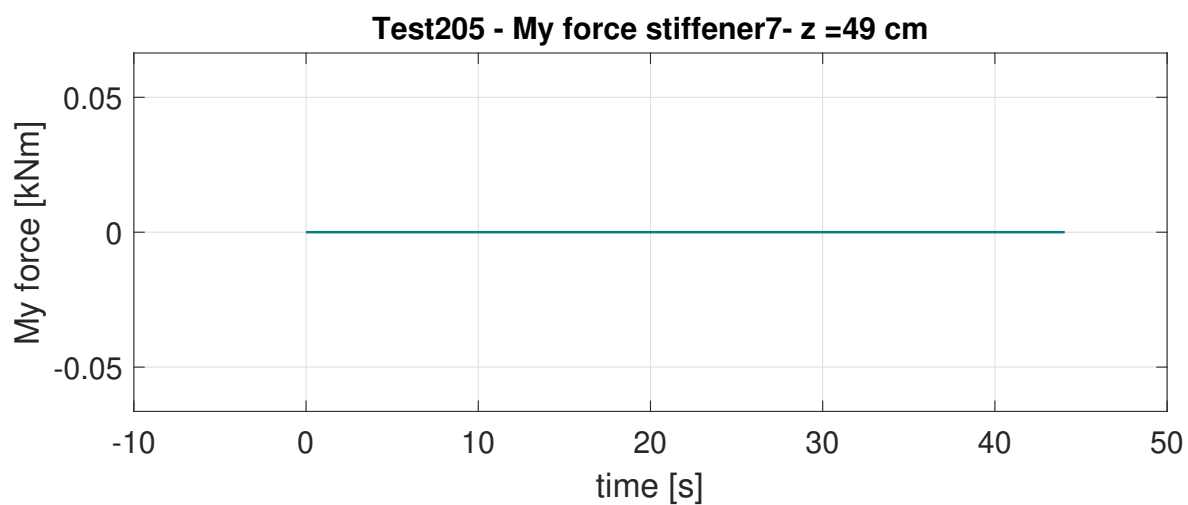
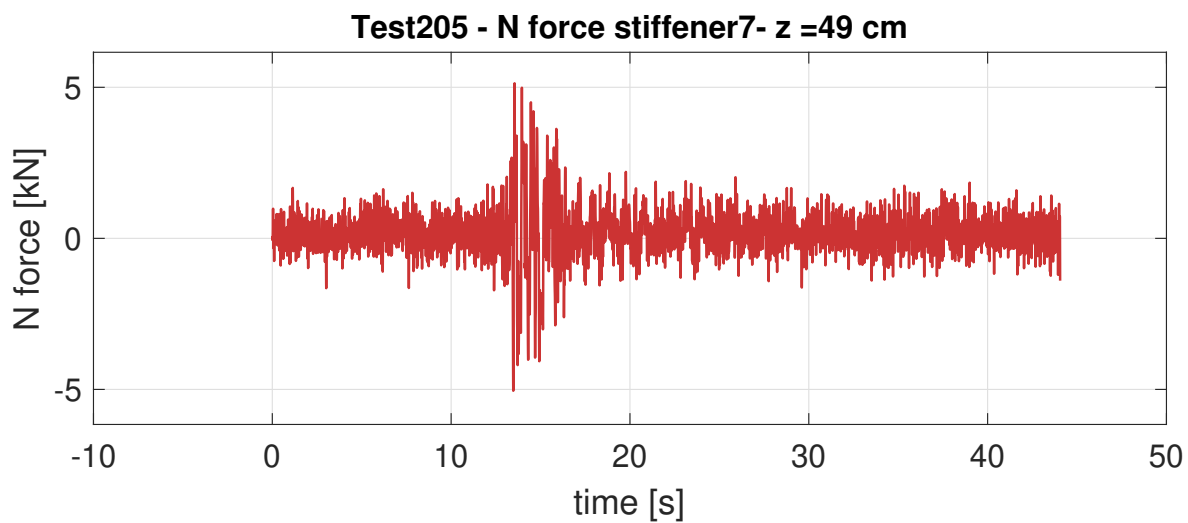


– Montante numero 8

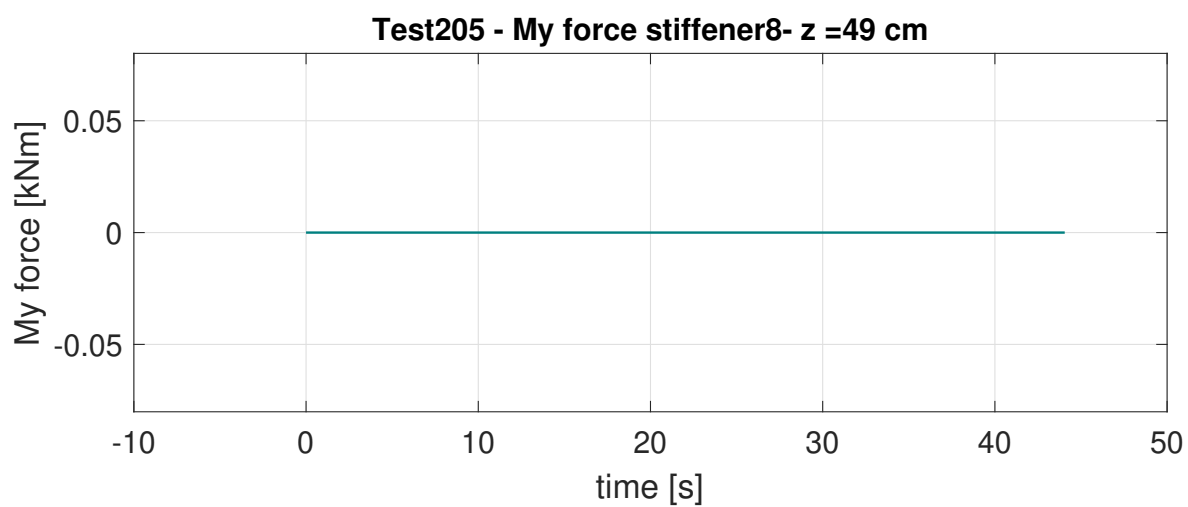
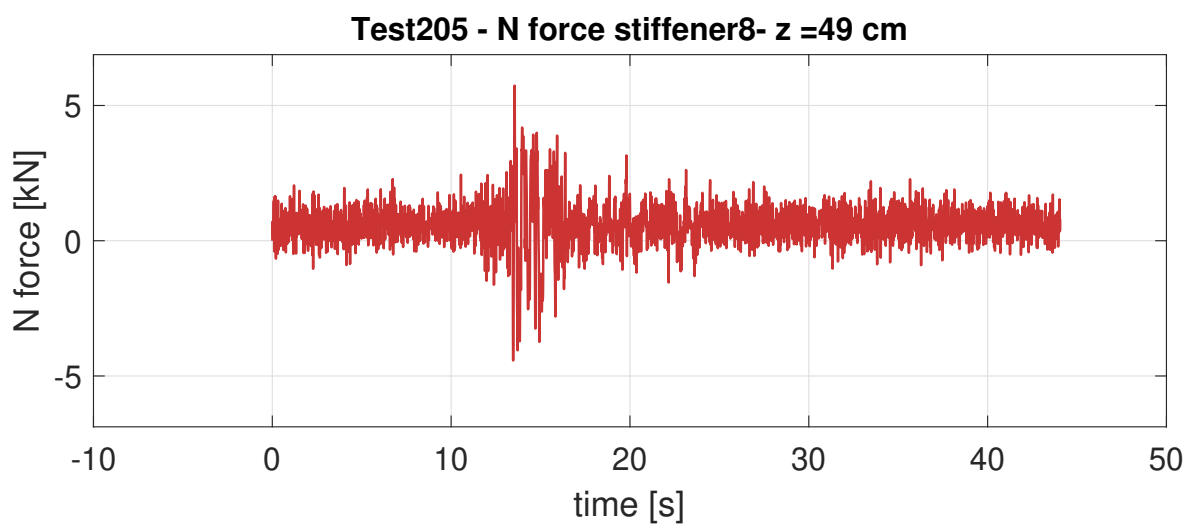


Quota z = 49 cm

– Montante numero 7

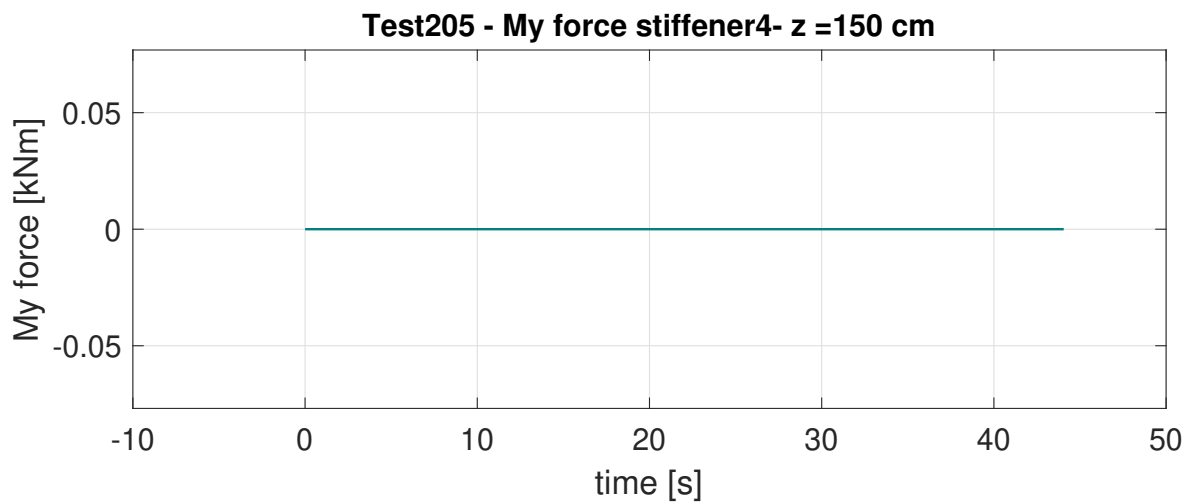
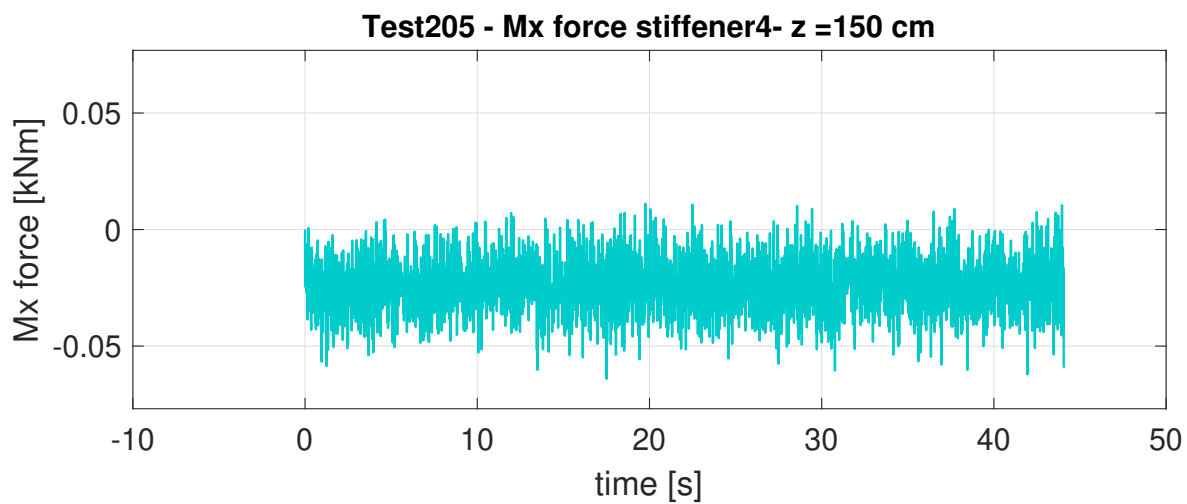
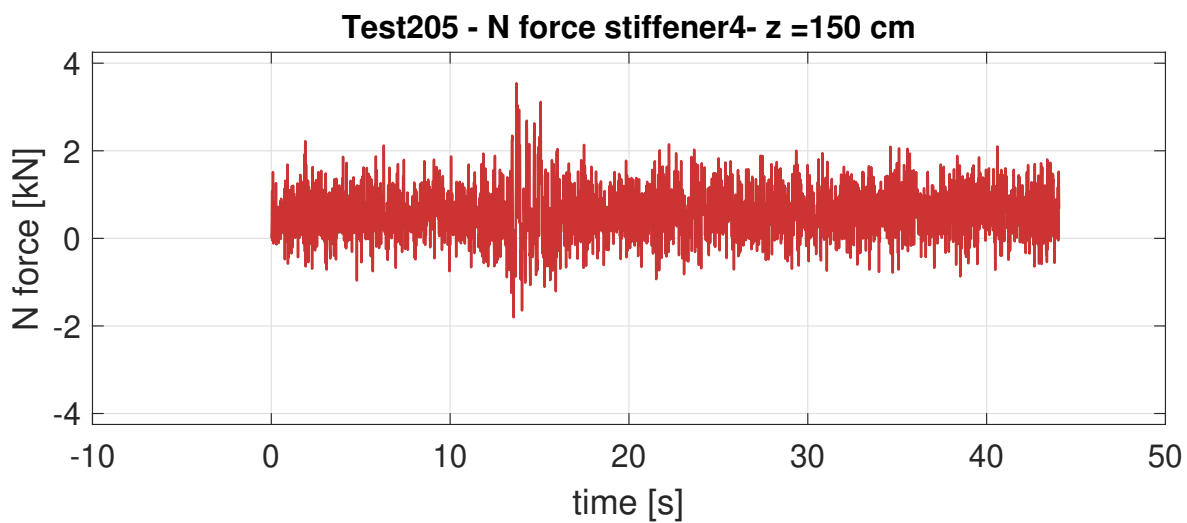


- Montante numero 8

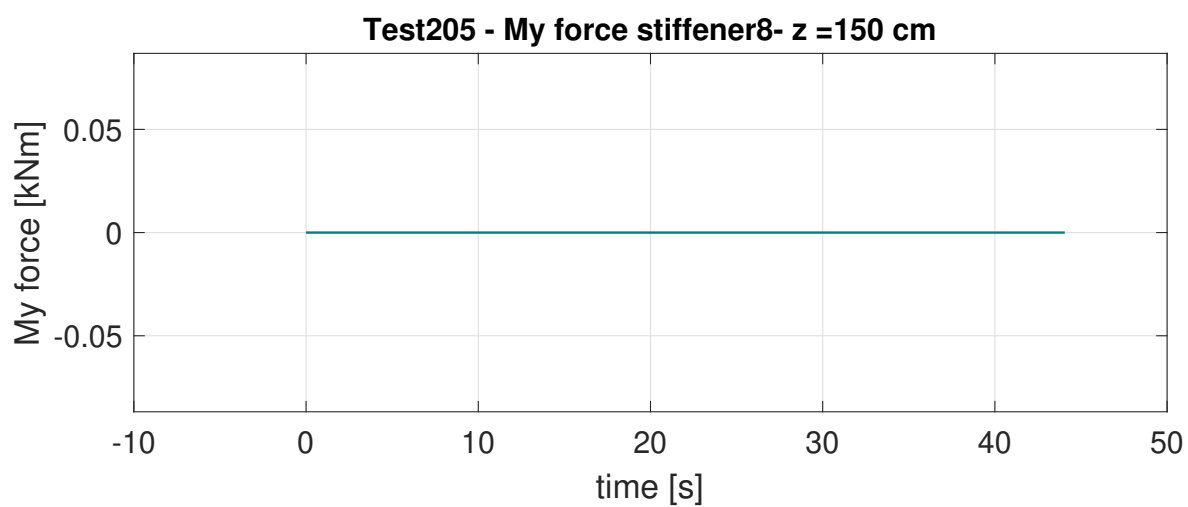
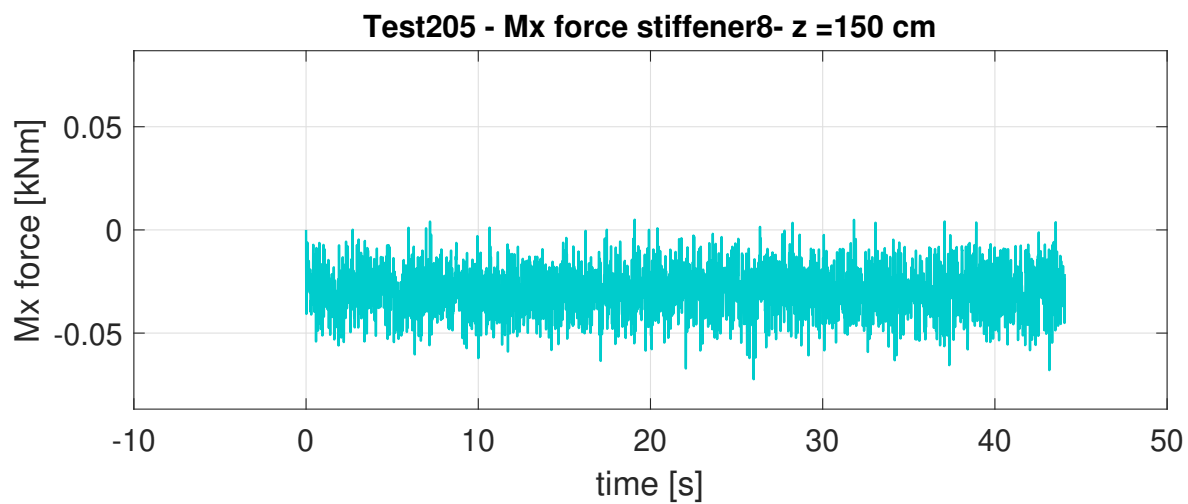
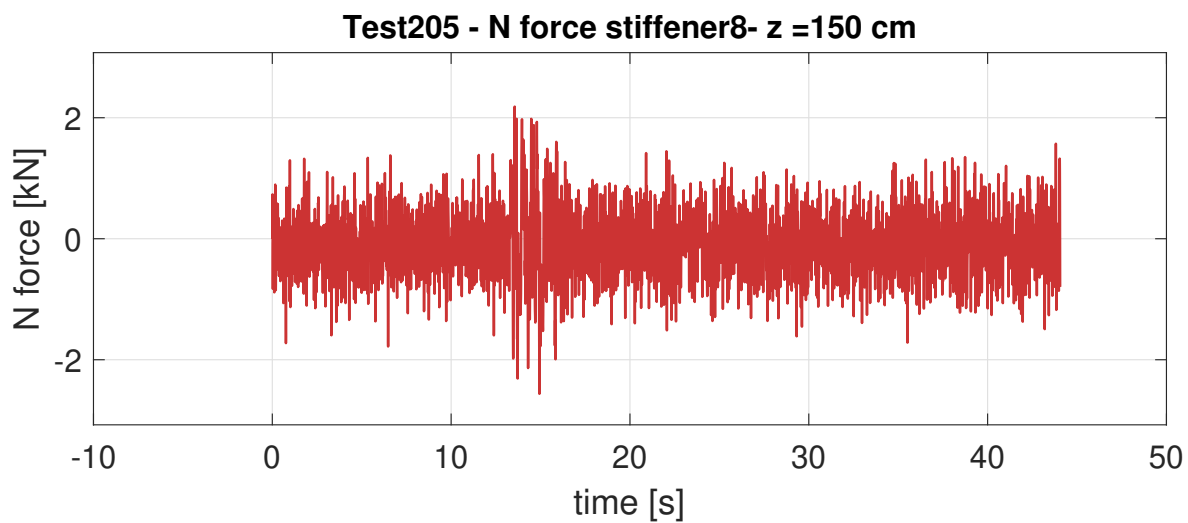


Quota z = 150 cm

– Montante numero 4

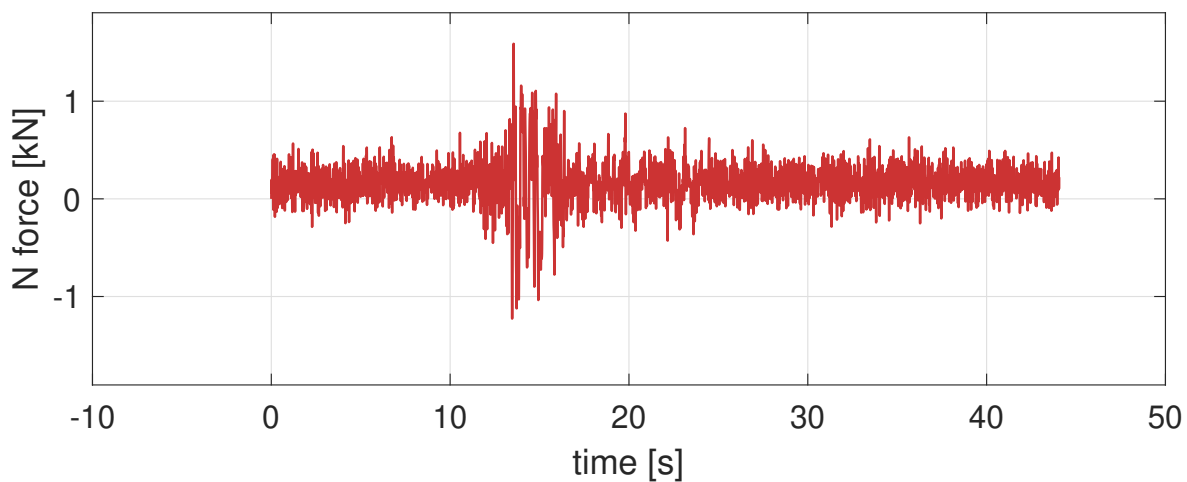
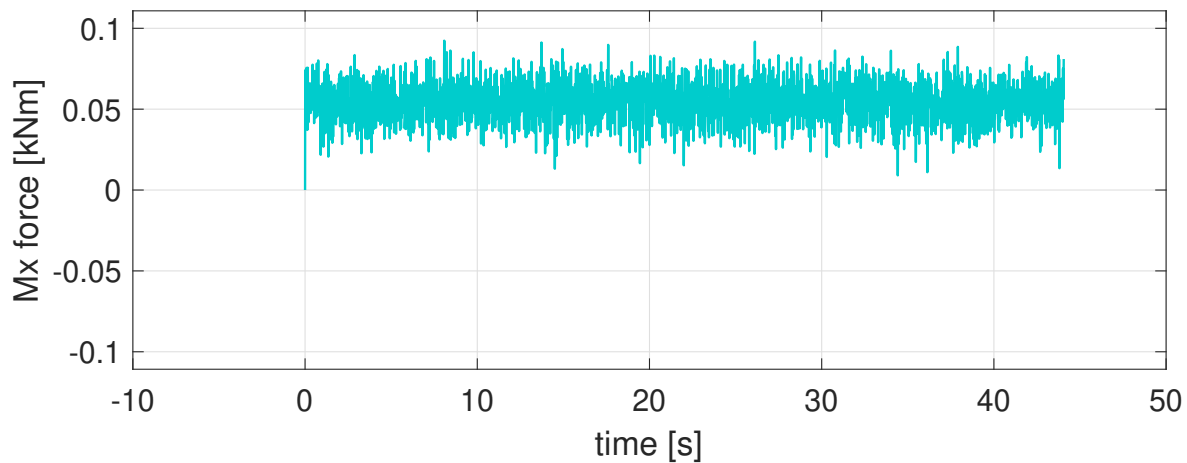
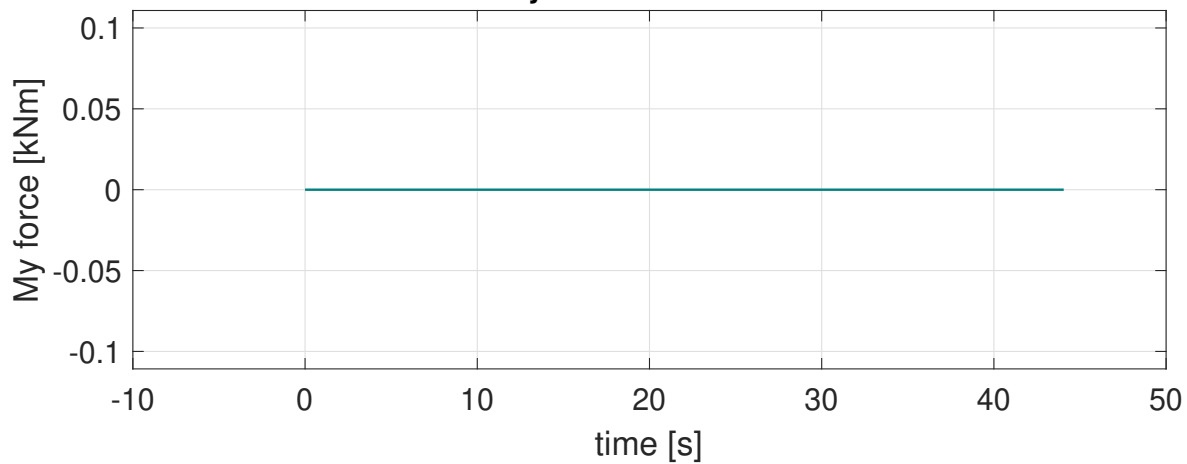


- Montante numero 8



Quota z = 250 cm

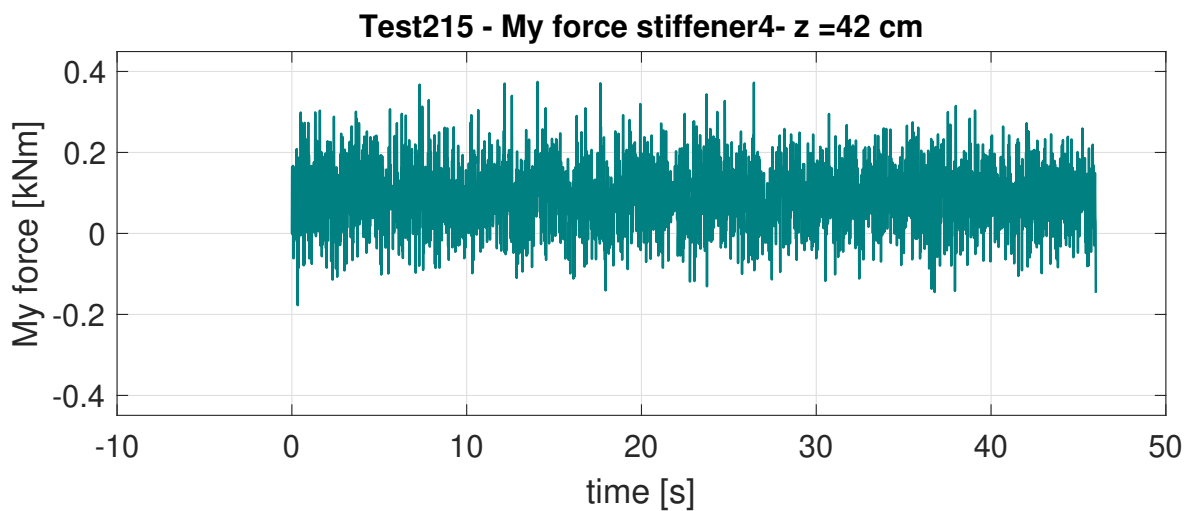
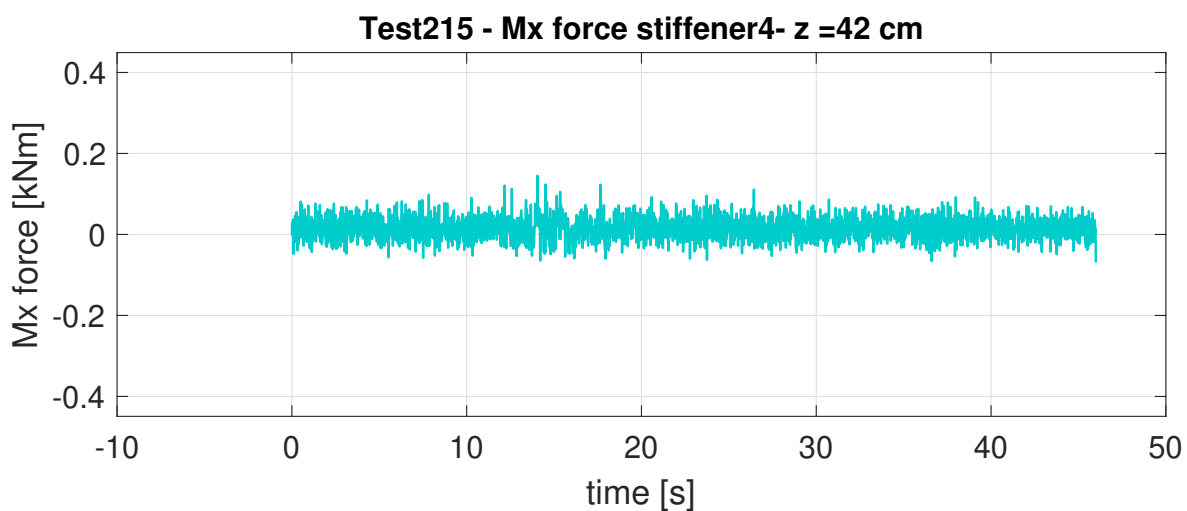
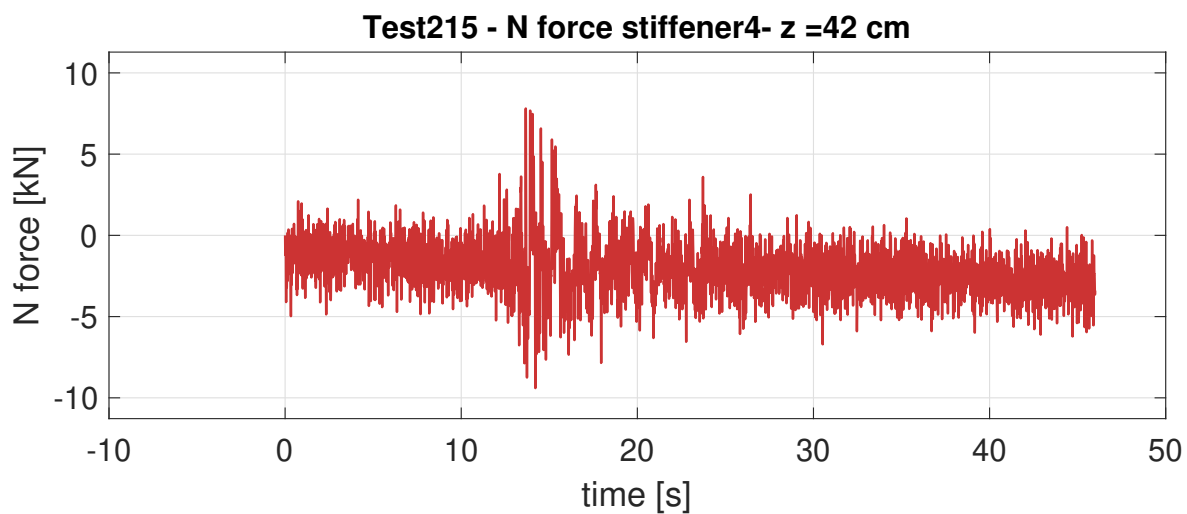
– Montante numero 8

Test205 - N force stiffener8- z =250 cm**Test205 - Mx force stiffener8- z =250 cm****Test205 - My force stiffener8- z =250 cm**

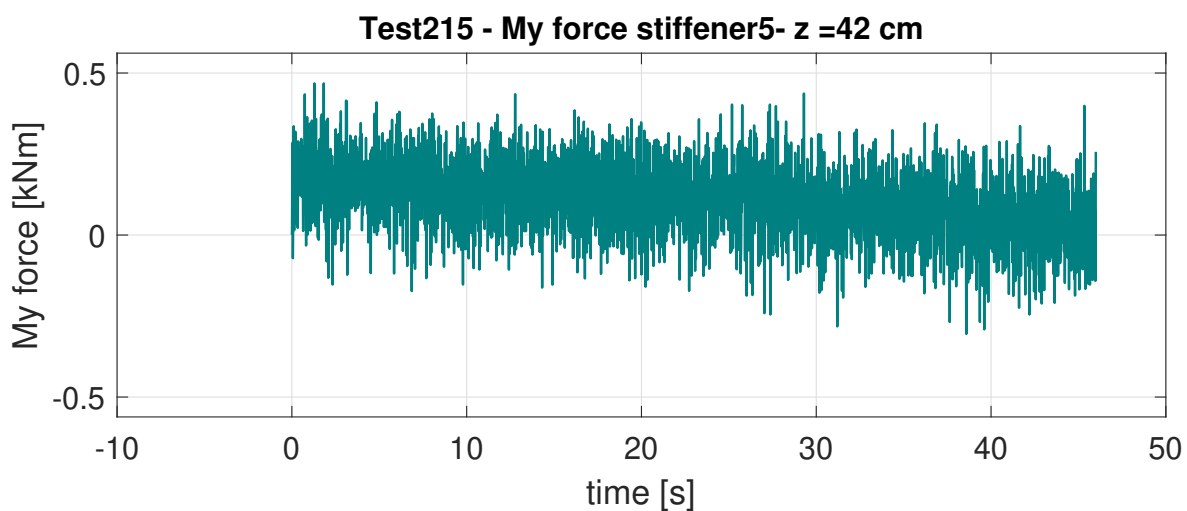
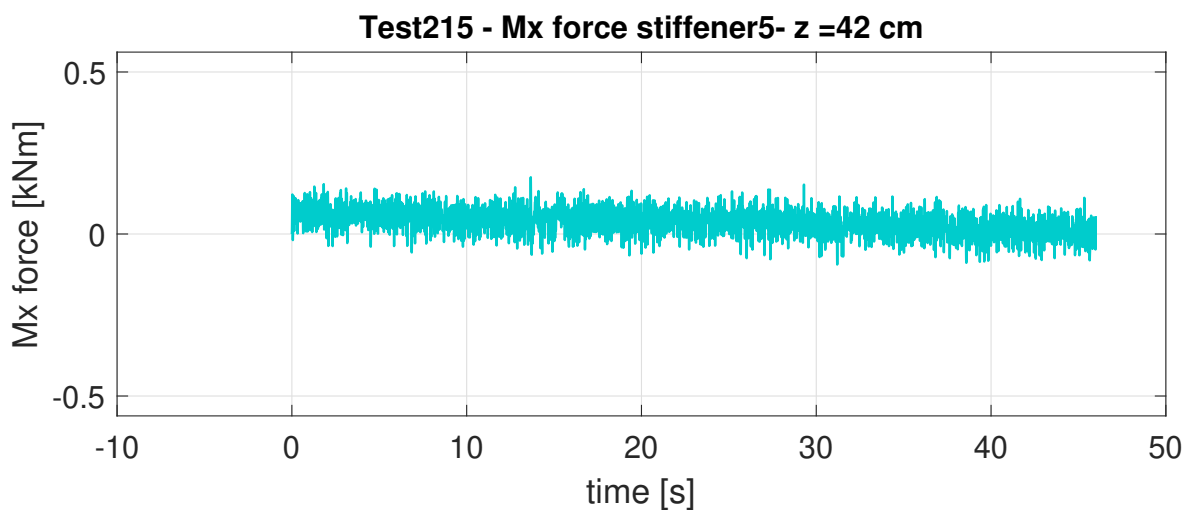
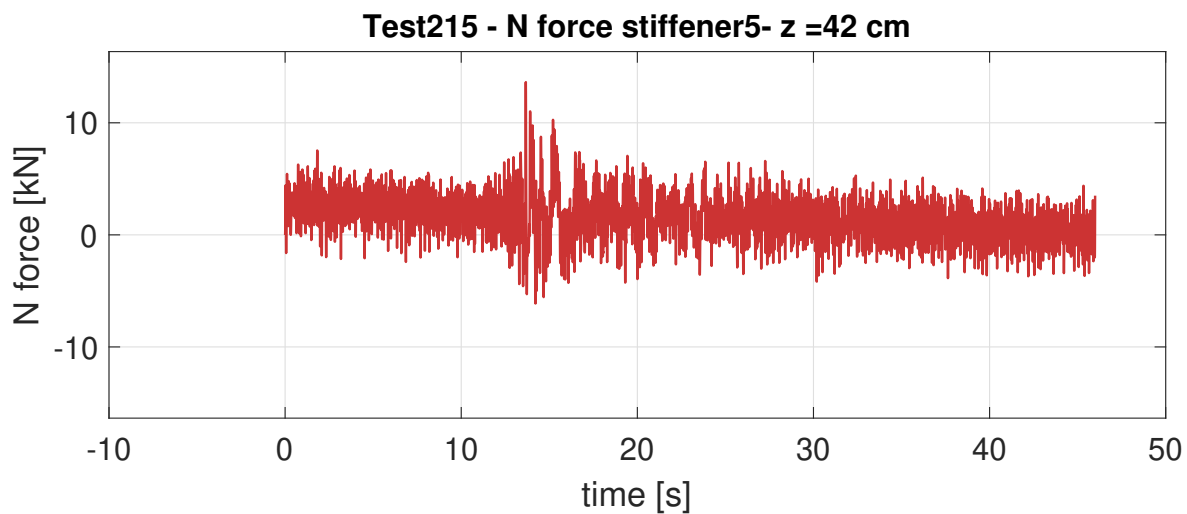
- Terremoto RS3 0.3 g

Quota z = 42 cm

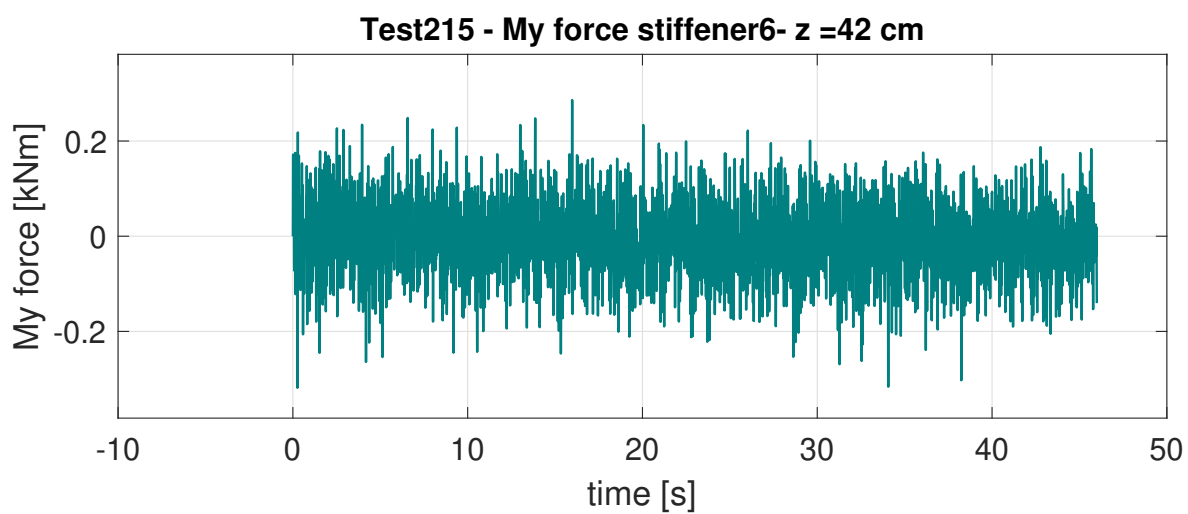
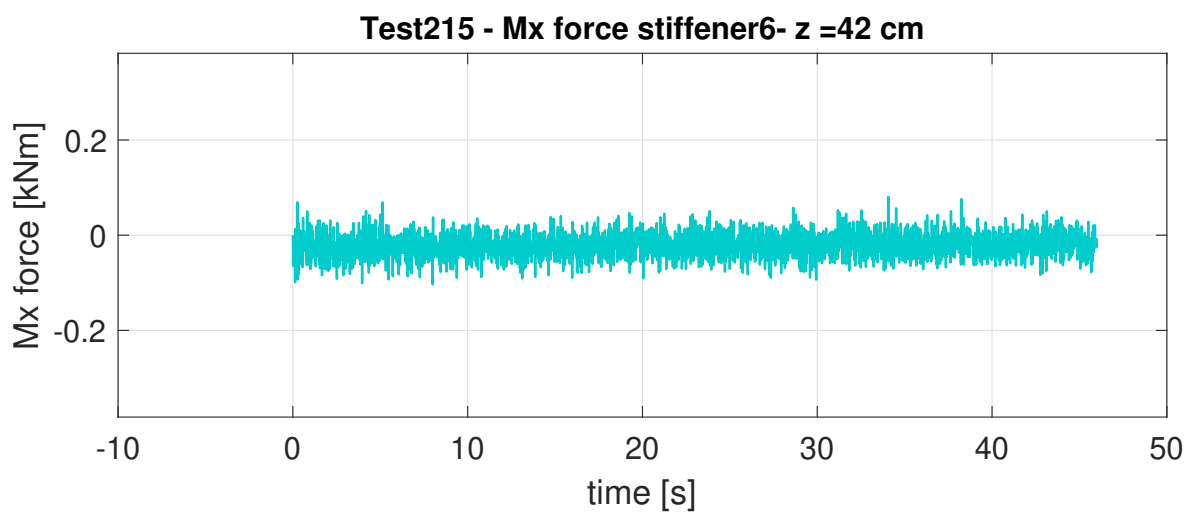
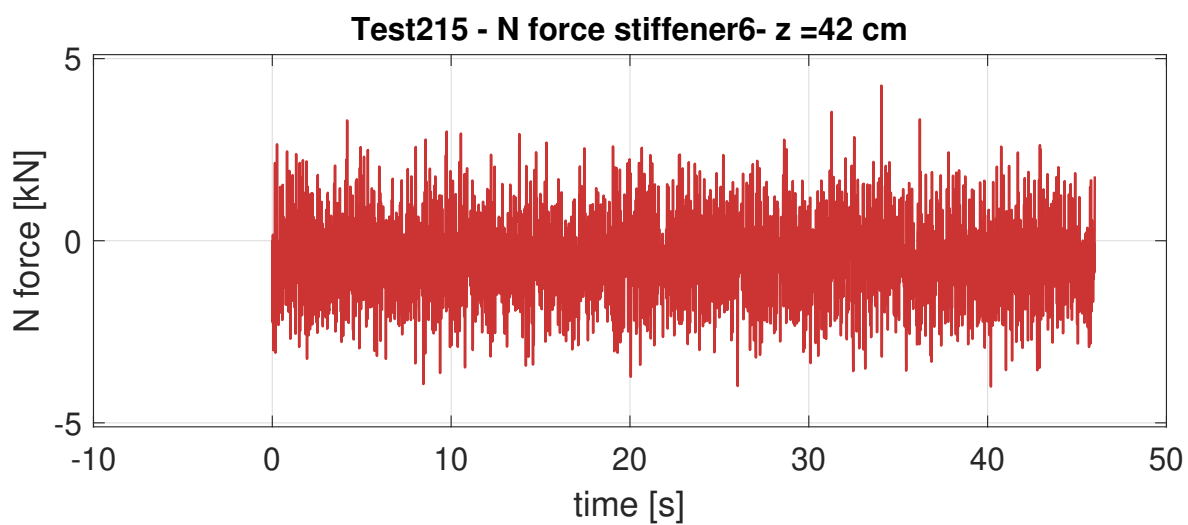
– Montante numero 4



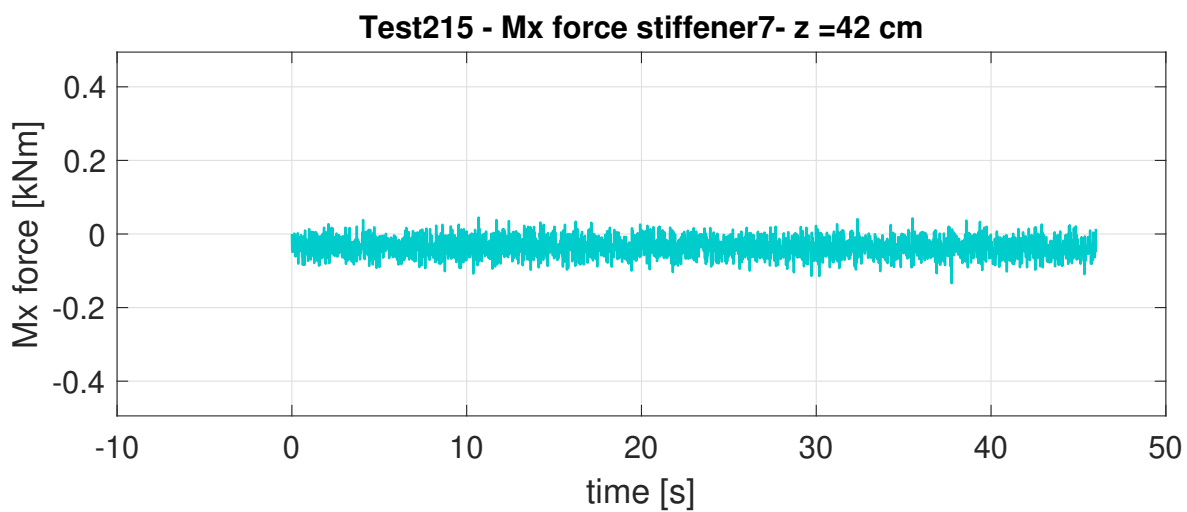
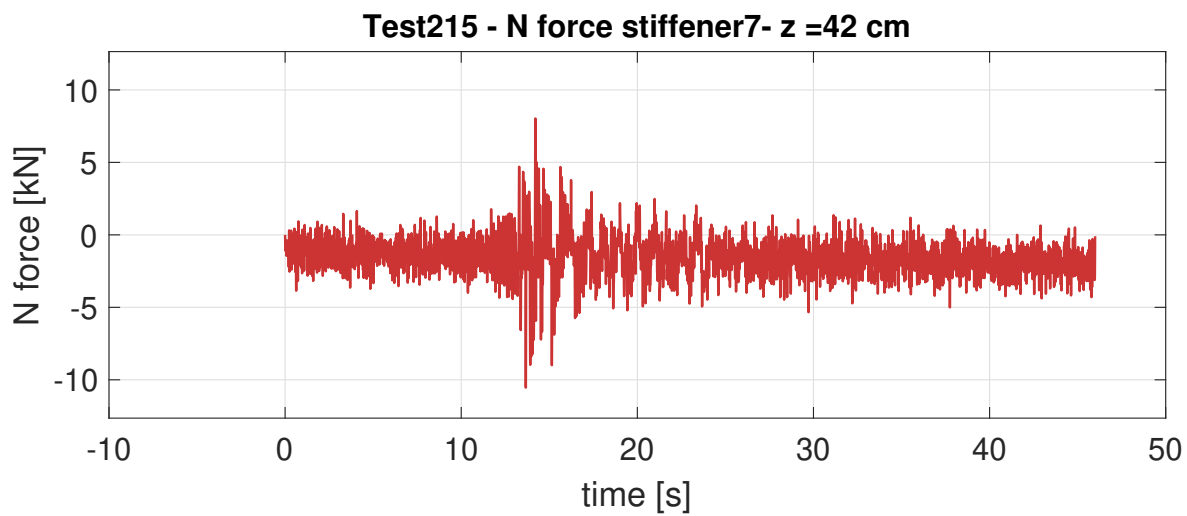
- Montante numero 5



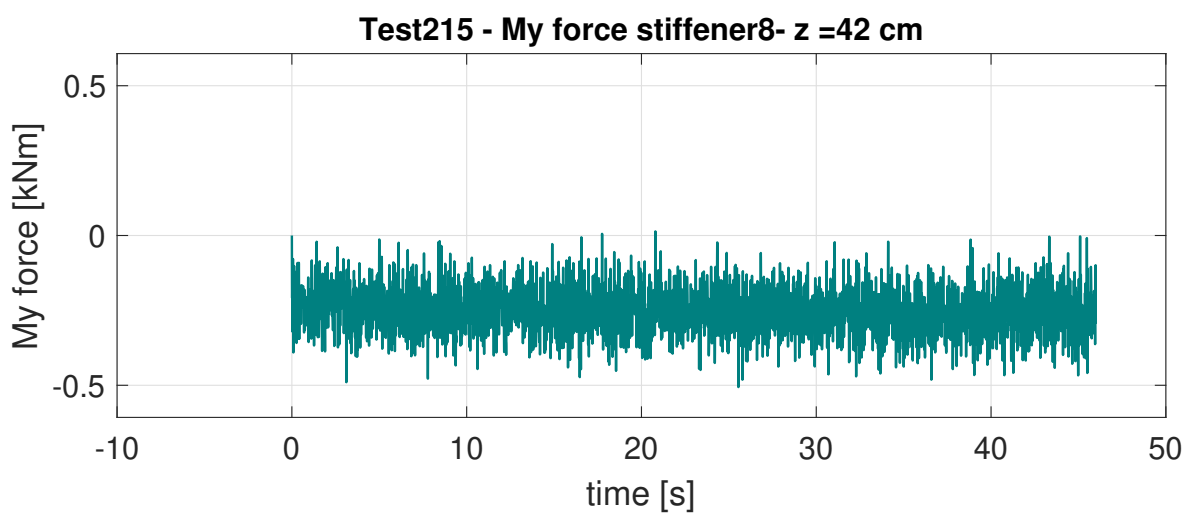
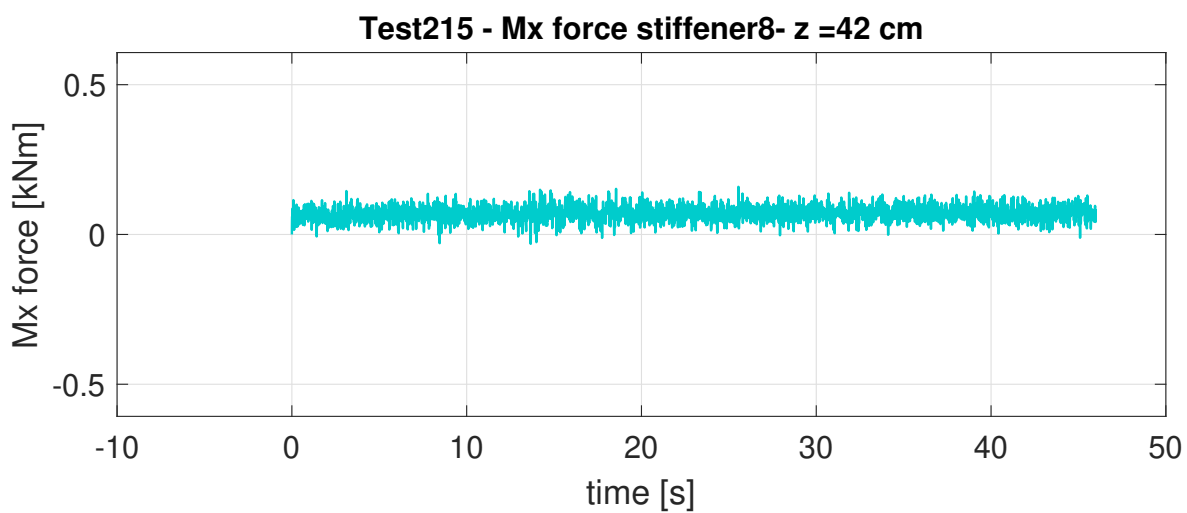
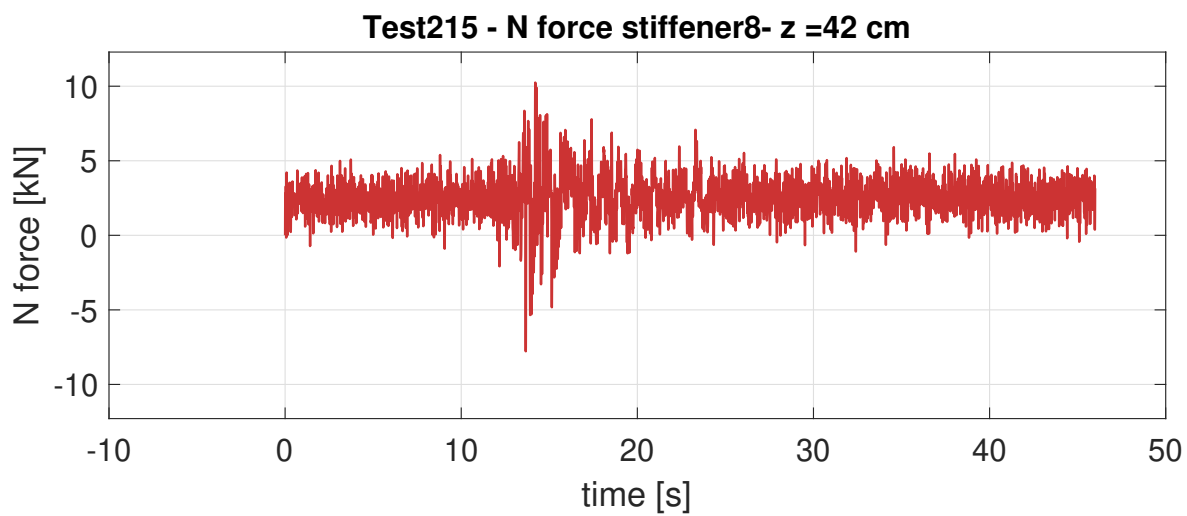
– Montante numero 6



- Montante numero 7

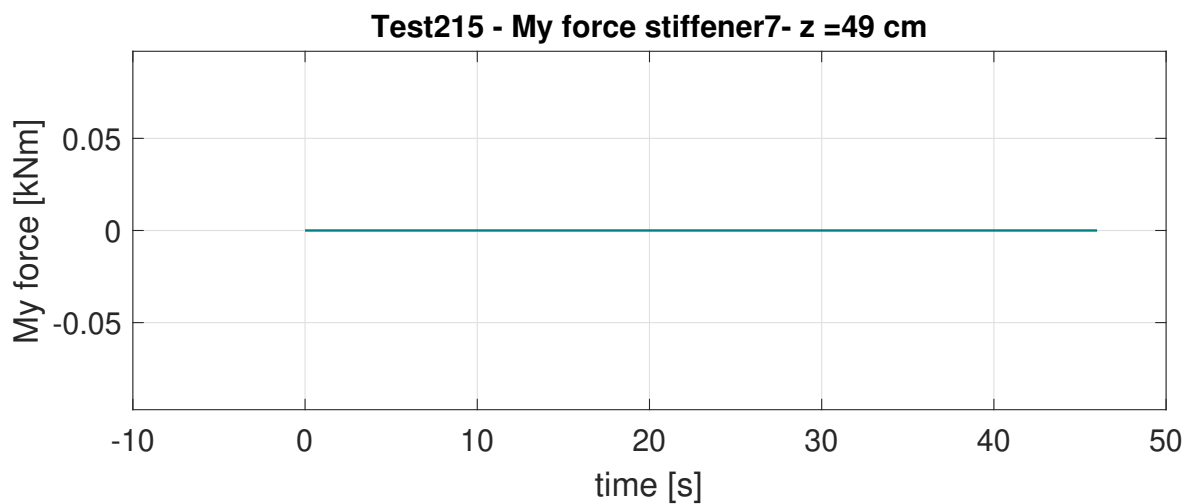
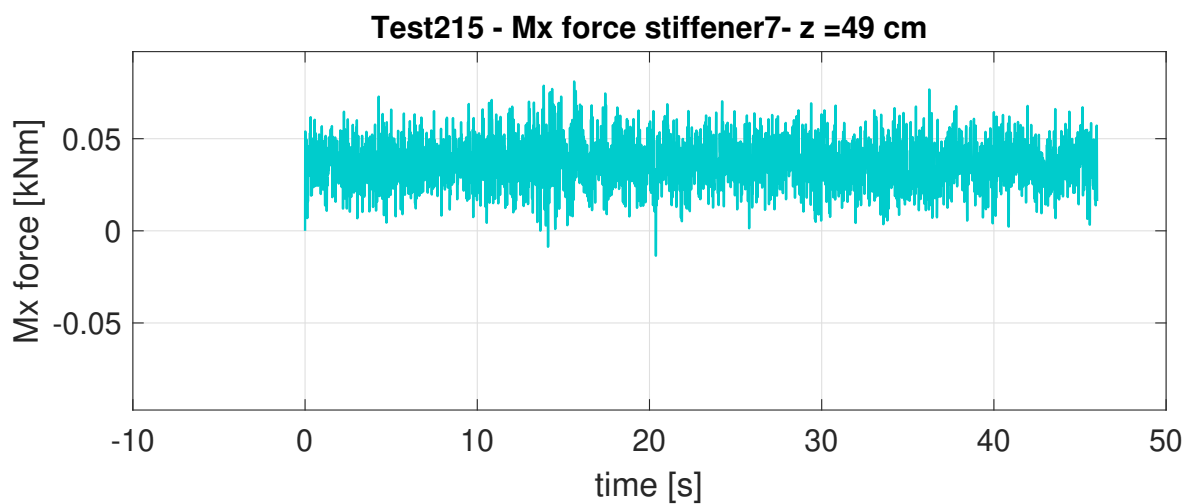
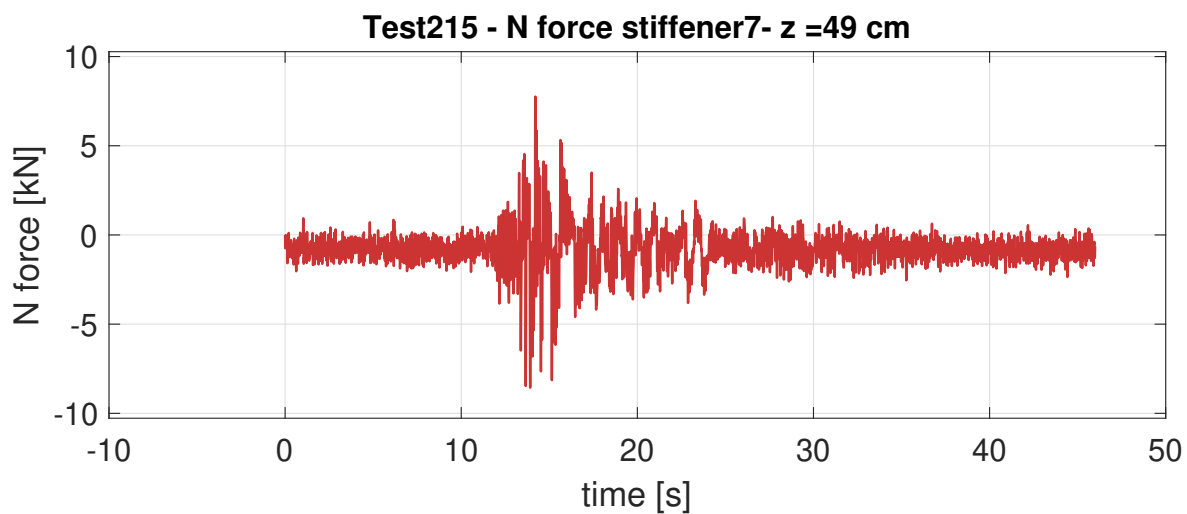


– Montante numero 8

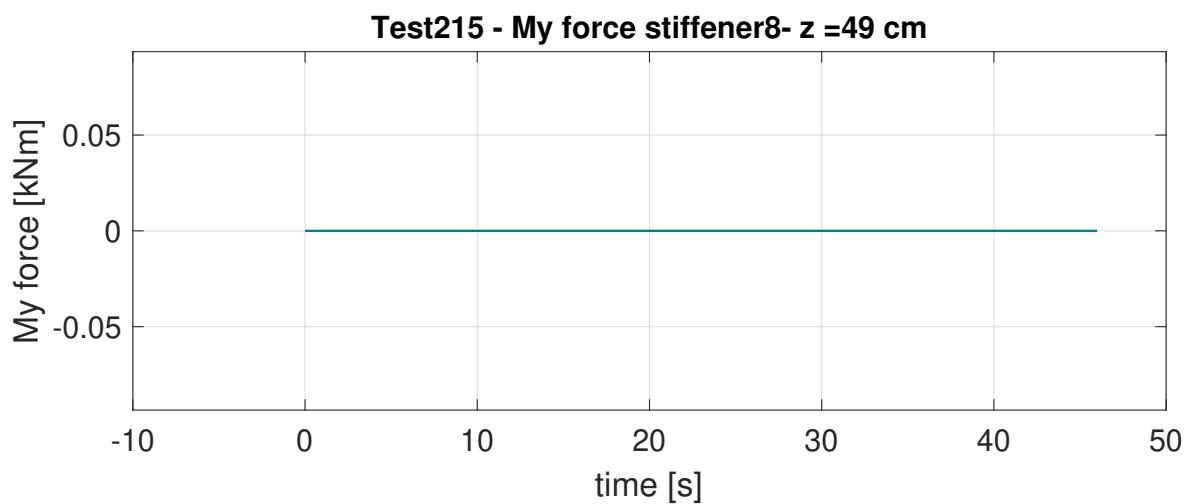
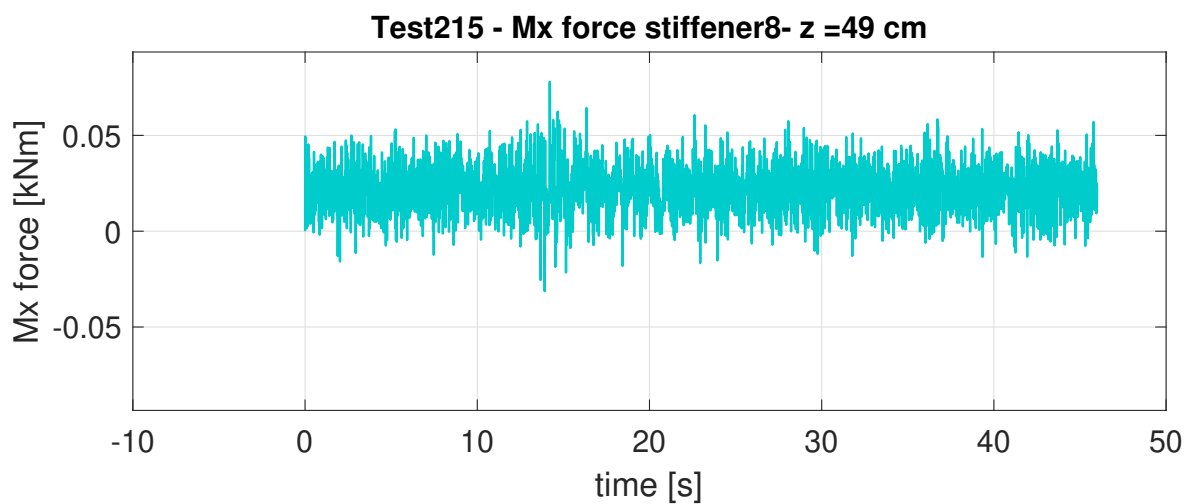
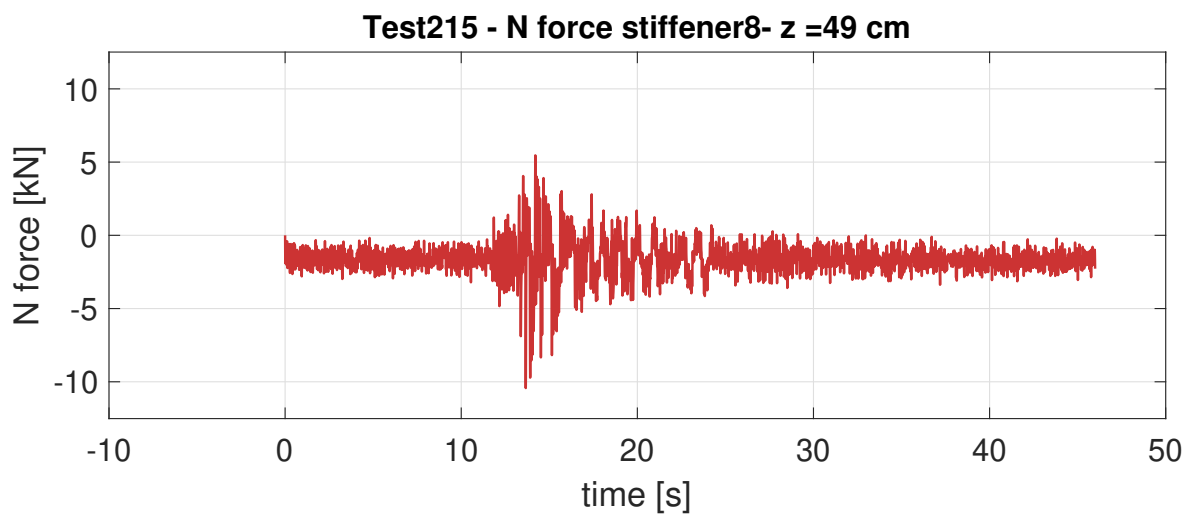


Quota z = 49 cm

– Montante numero 7

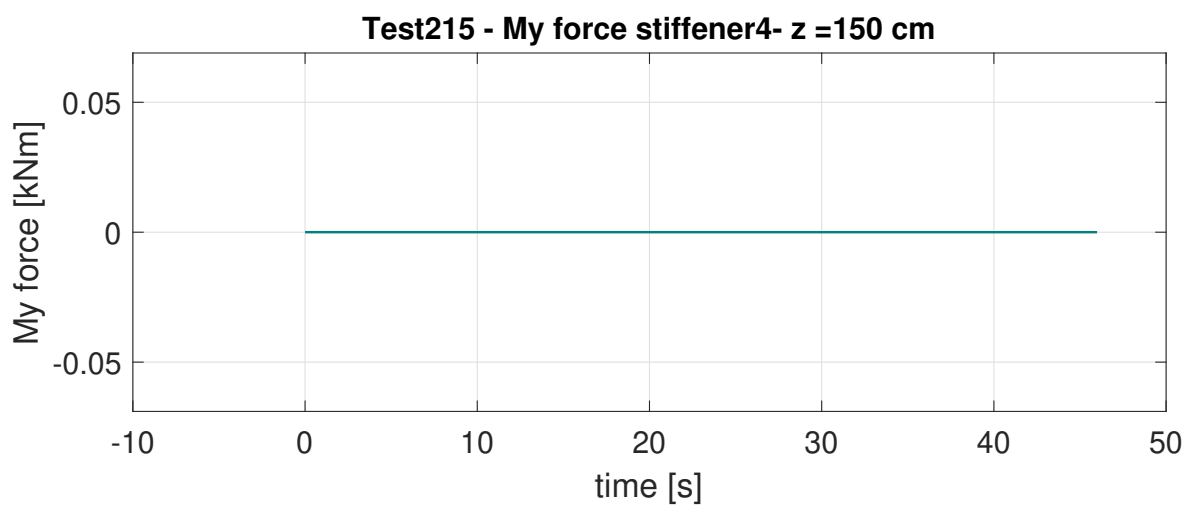
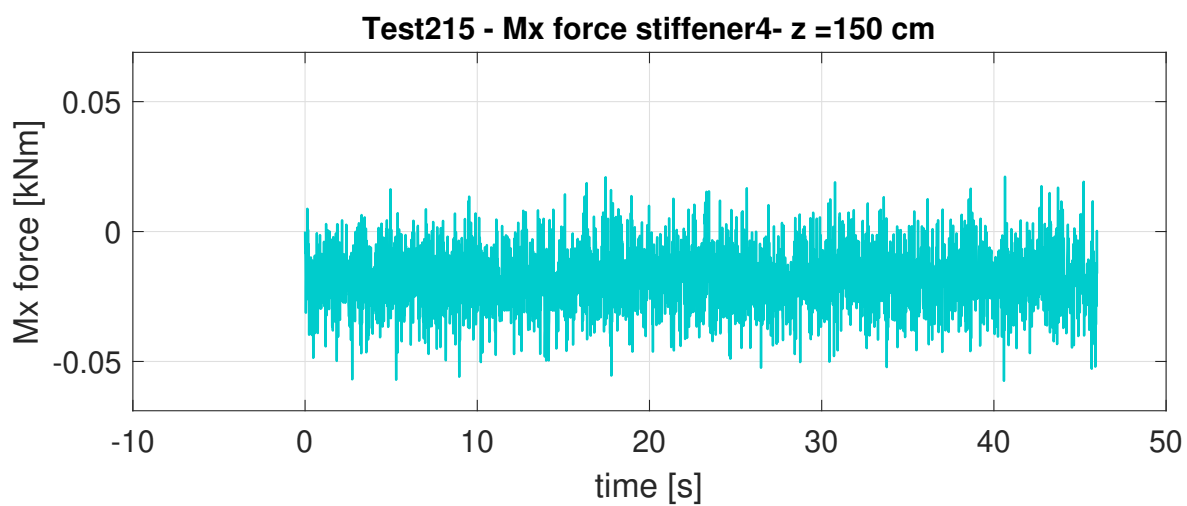
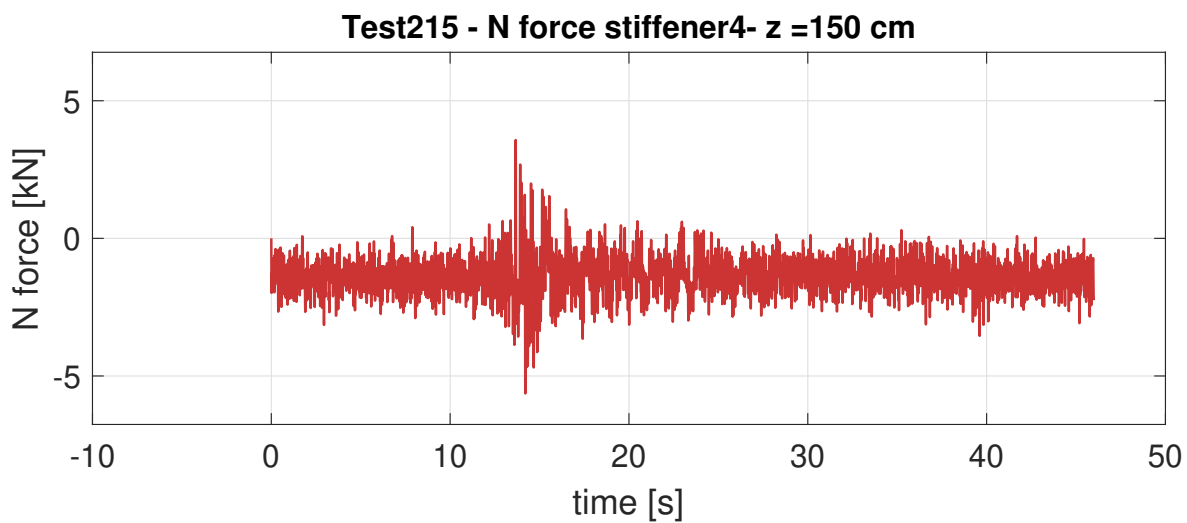


– Montante numero 8

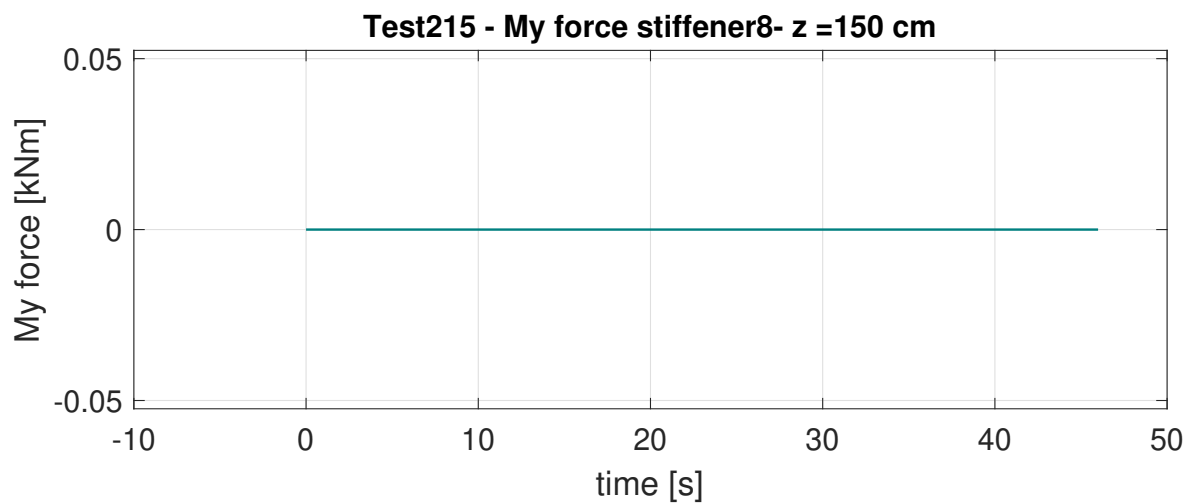
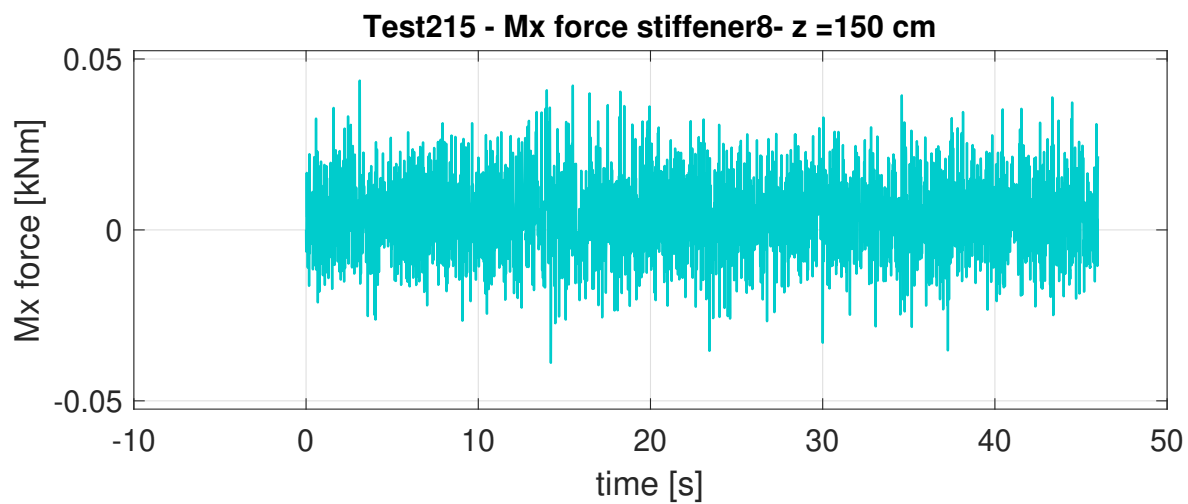
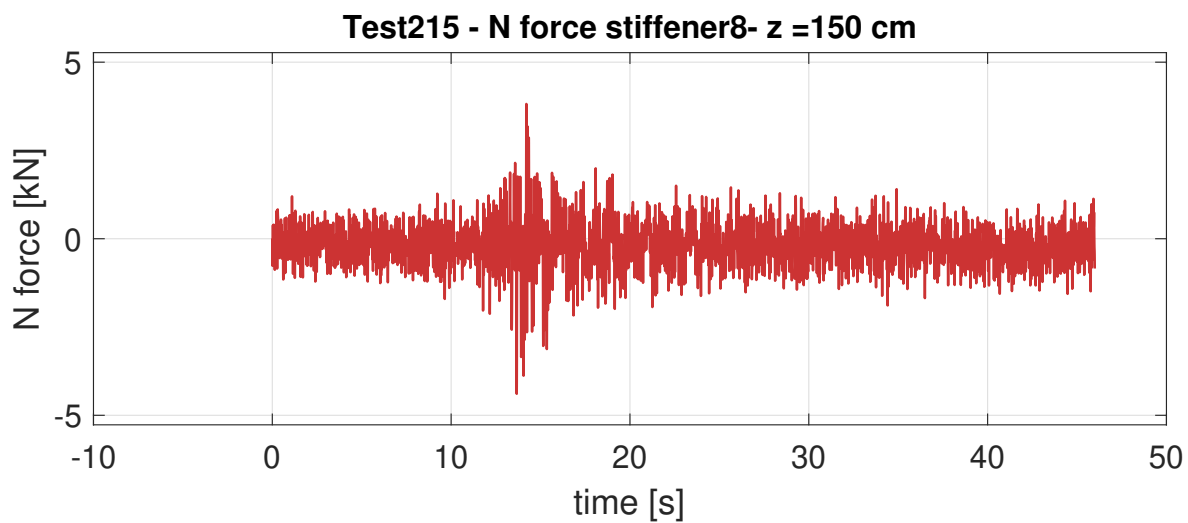


Quota z = 150 cm

– Montante numero 4

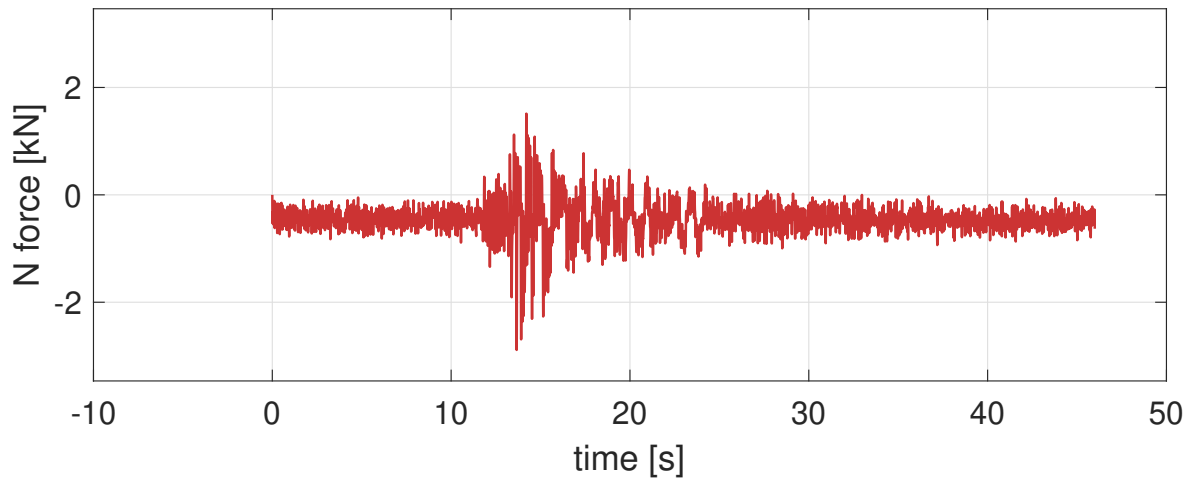
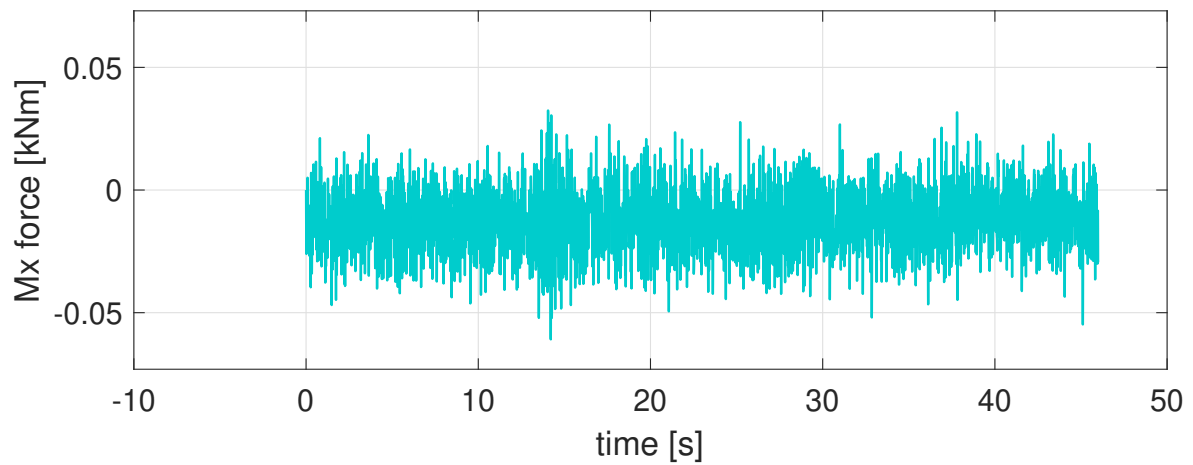
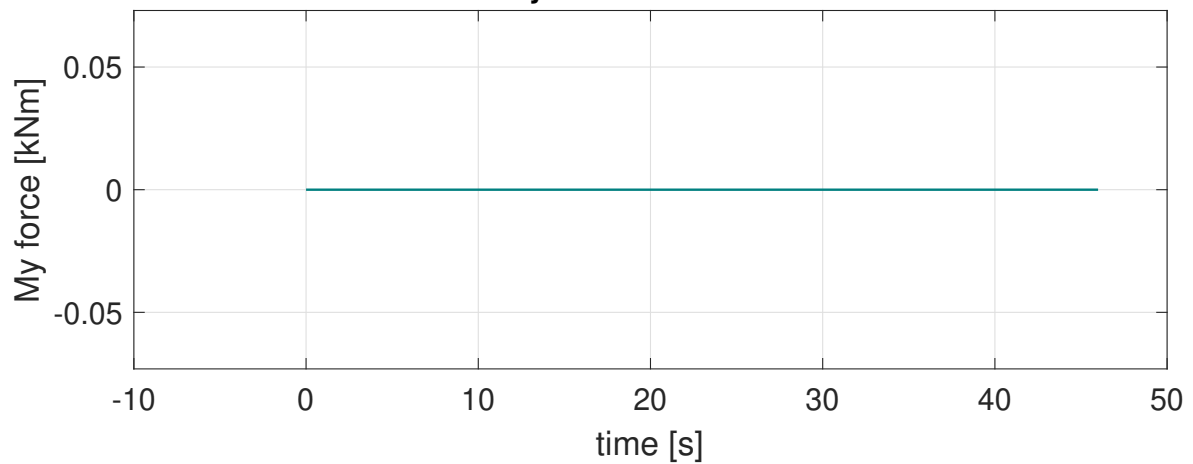


- Montante numero 8



Quota z = 250 cm

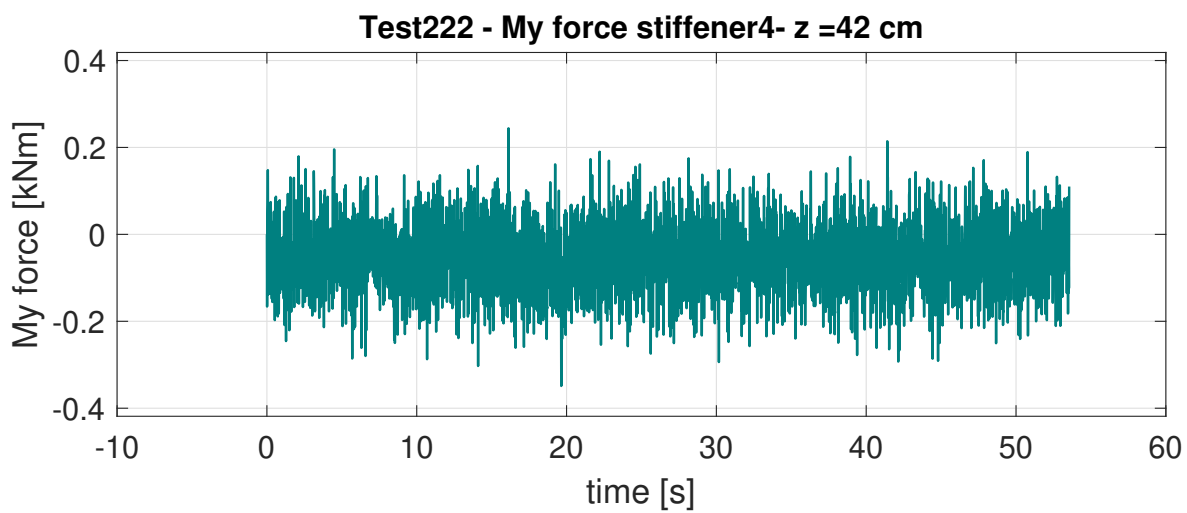
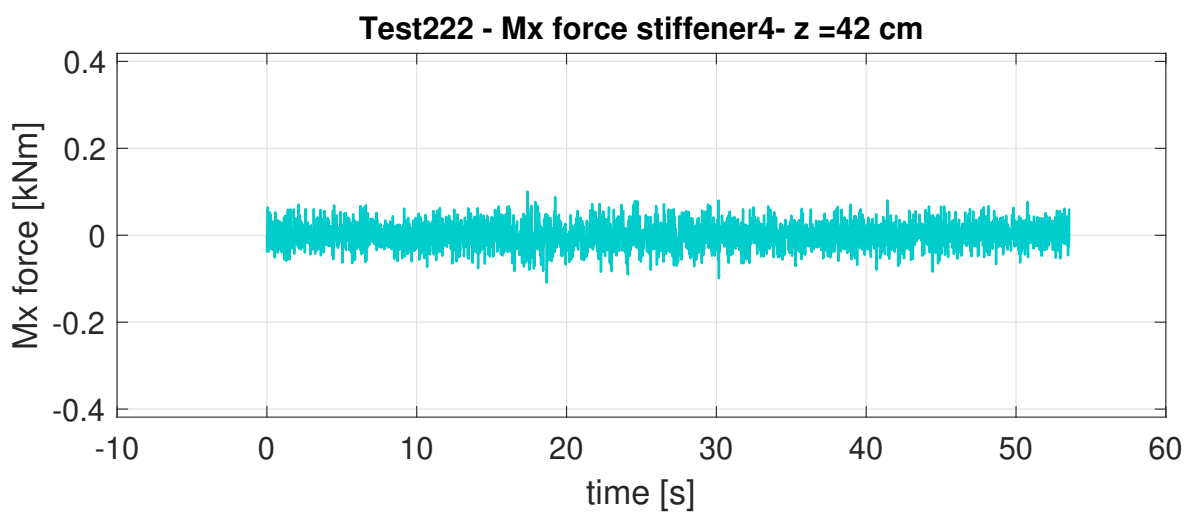
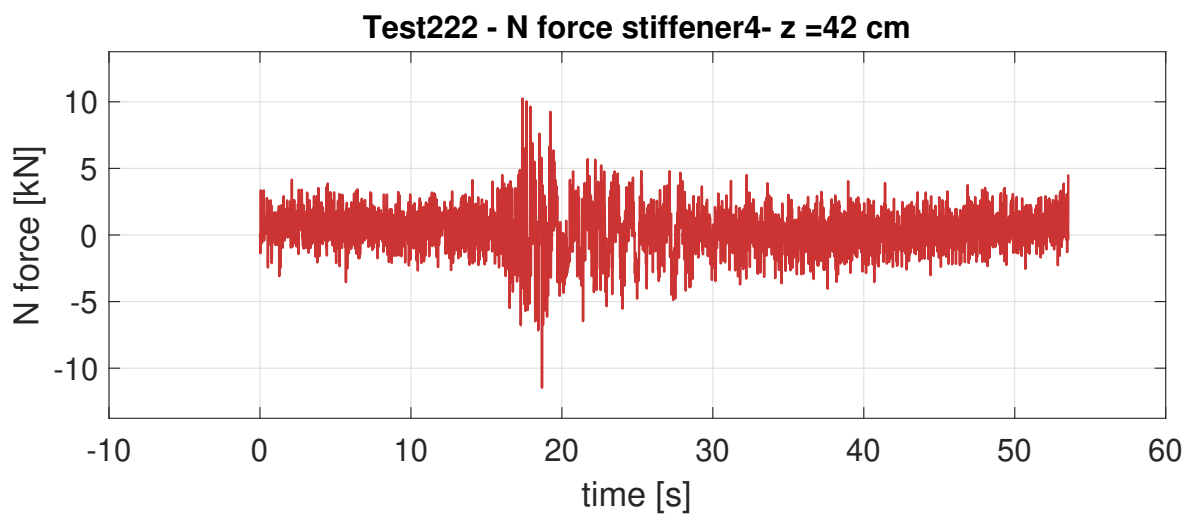
– Montante numero 8

Test215 - N force stiffener8- z =250 cm**Test215 - Mx force stiffener8- z =250 cm****Test215 - My force stiffener8- z =250 cm**

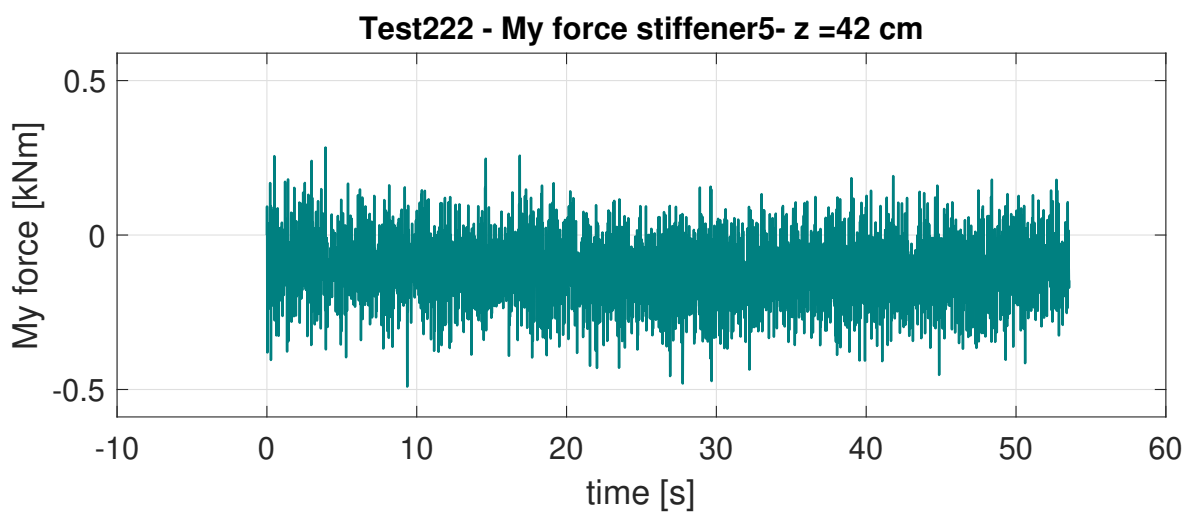
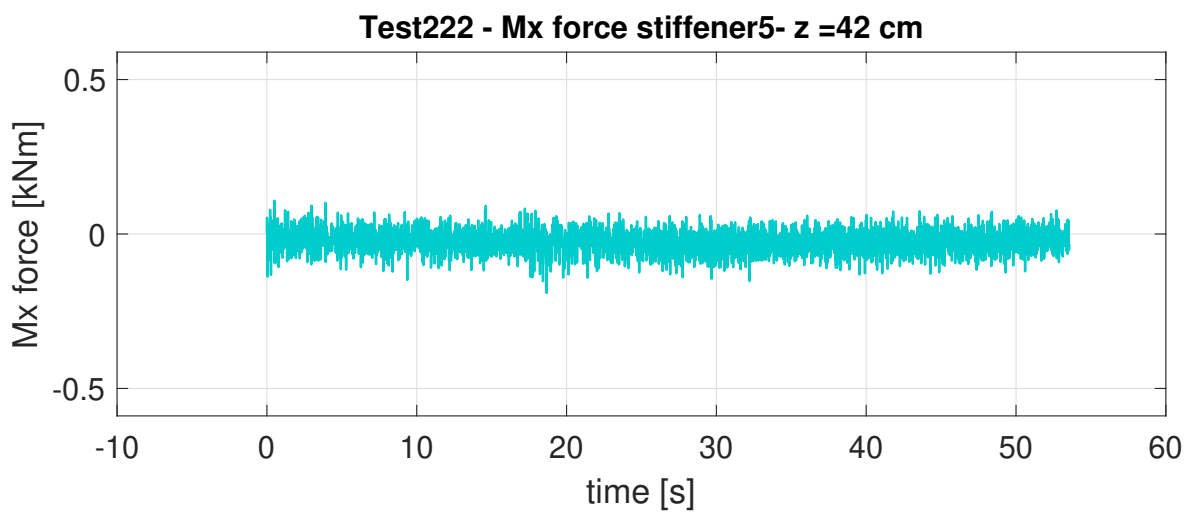
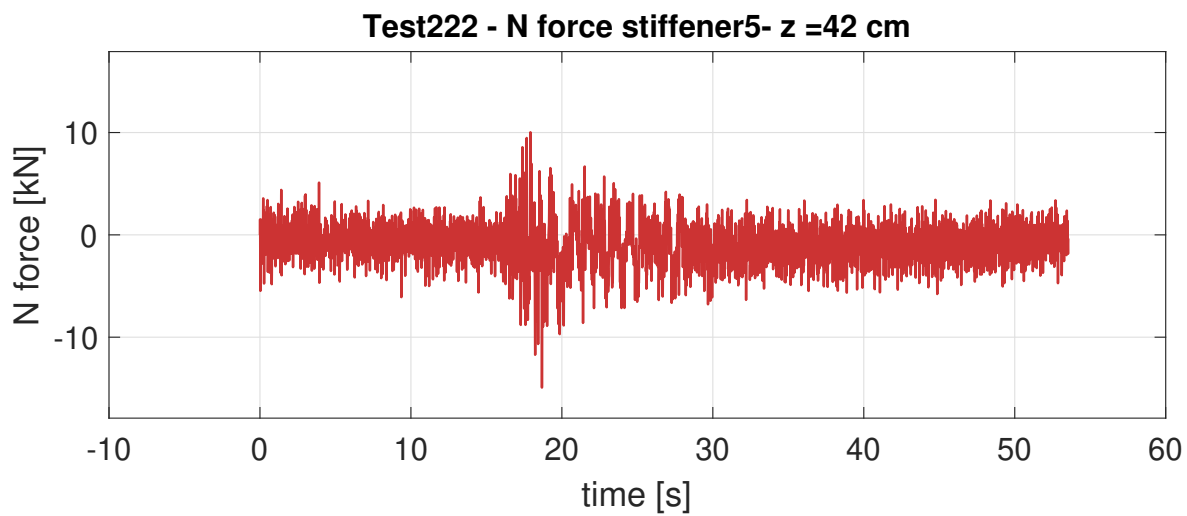
- Terremoto RS3 0.5 g

Quota z = 42 cm

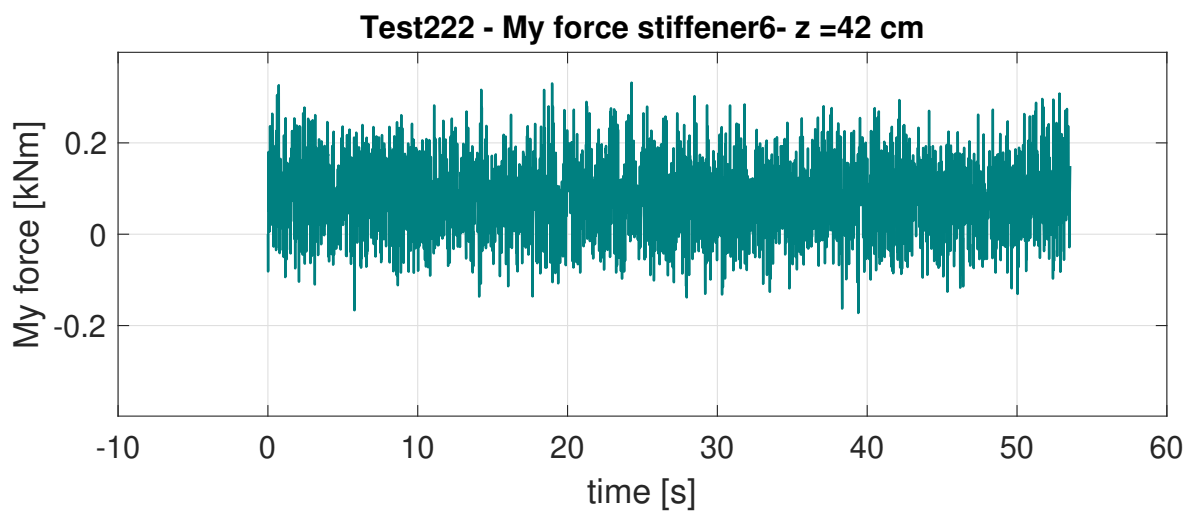
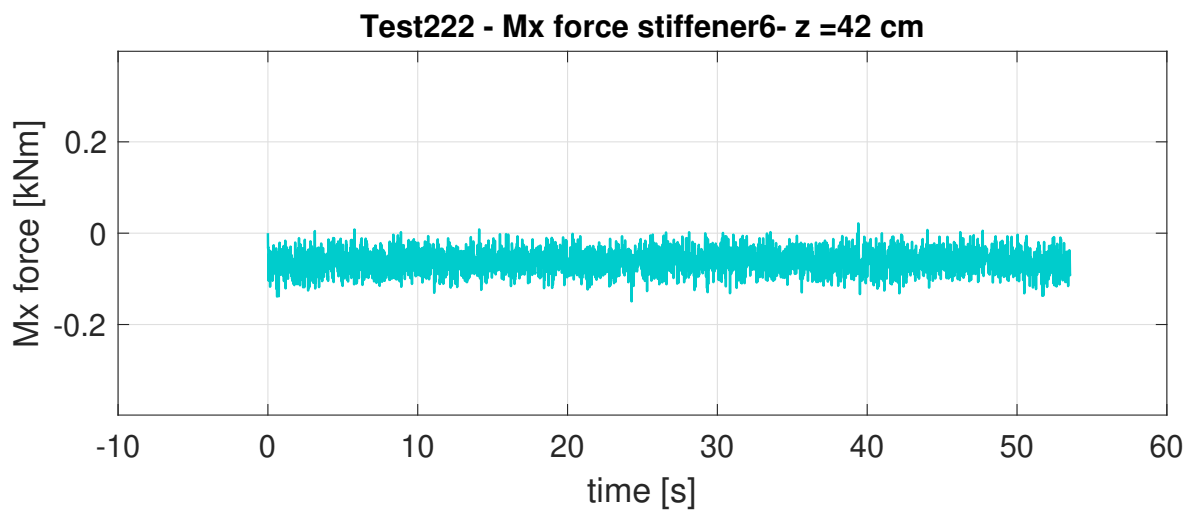
– Montante numero 4



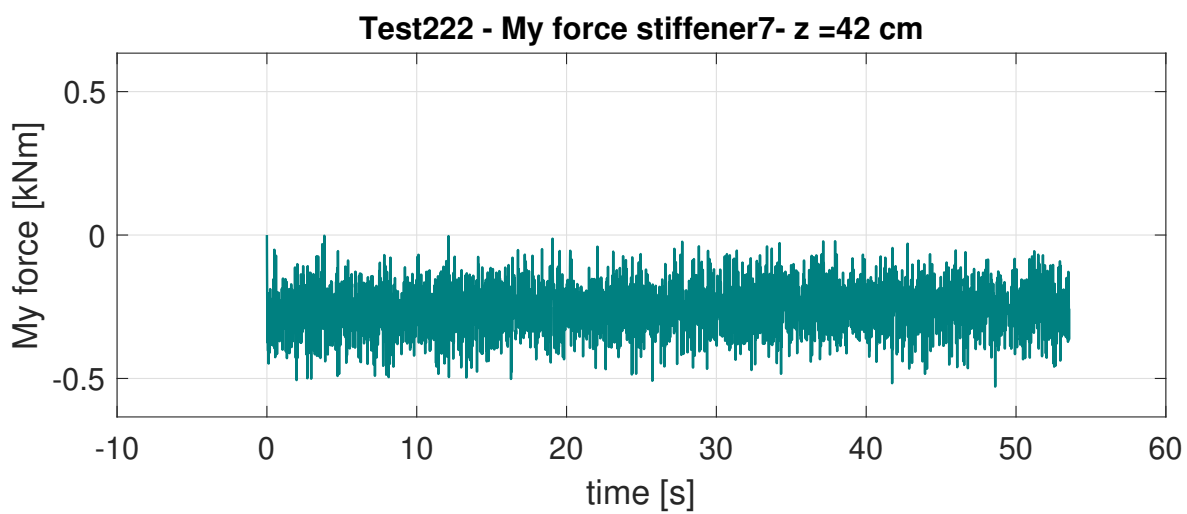
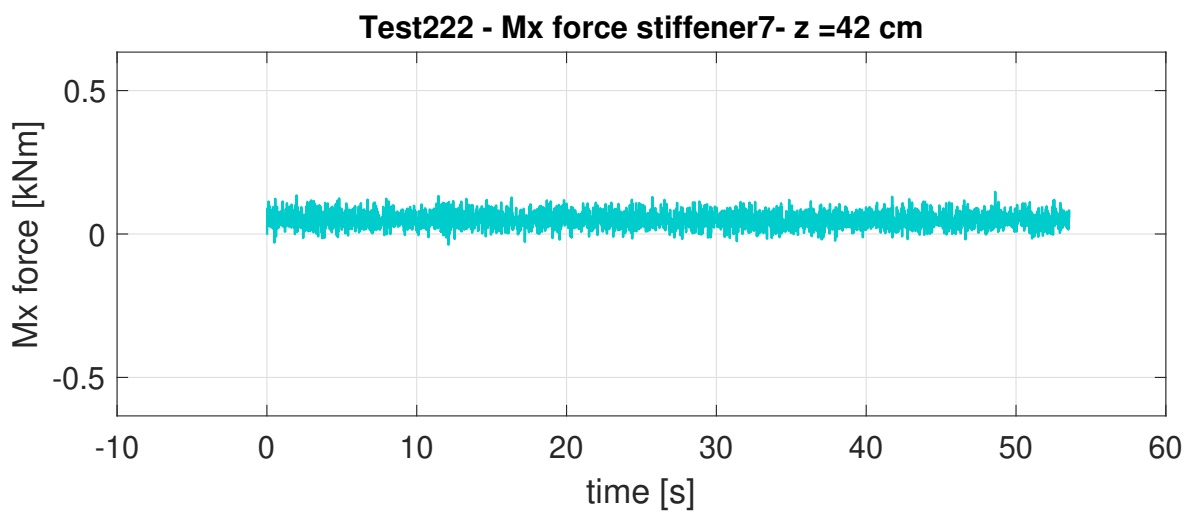
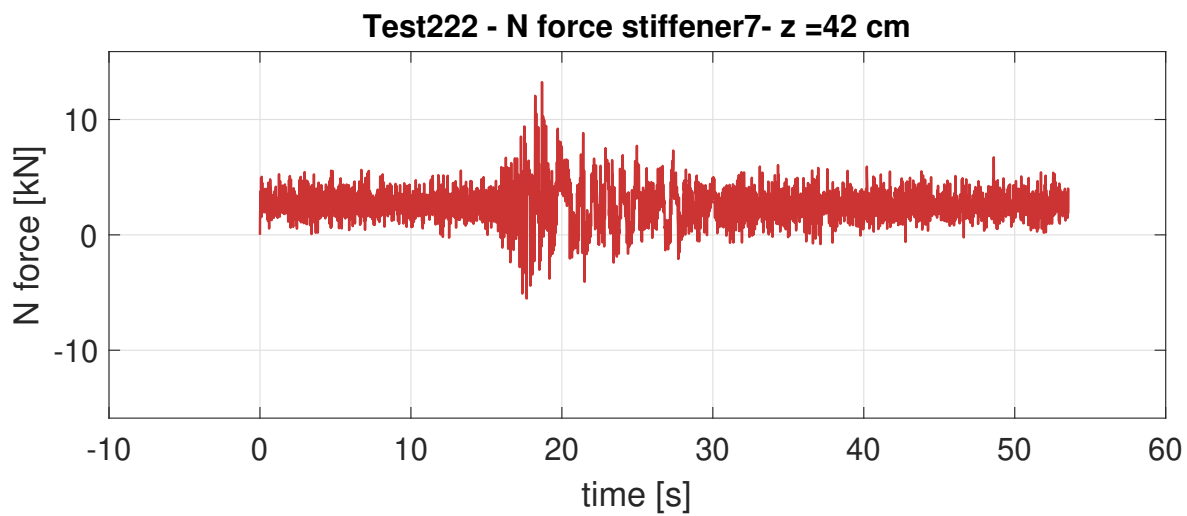
- Montante numero 5



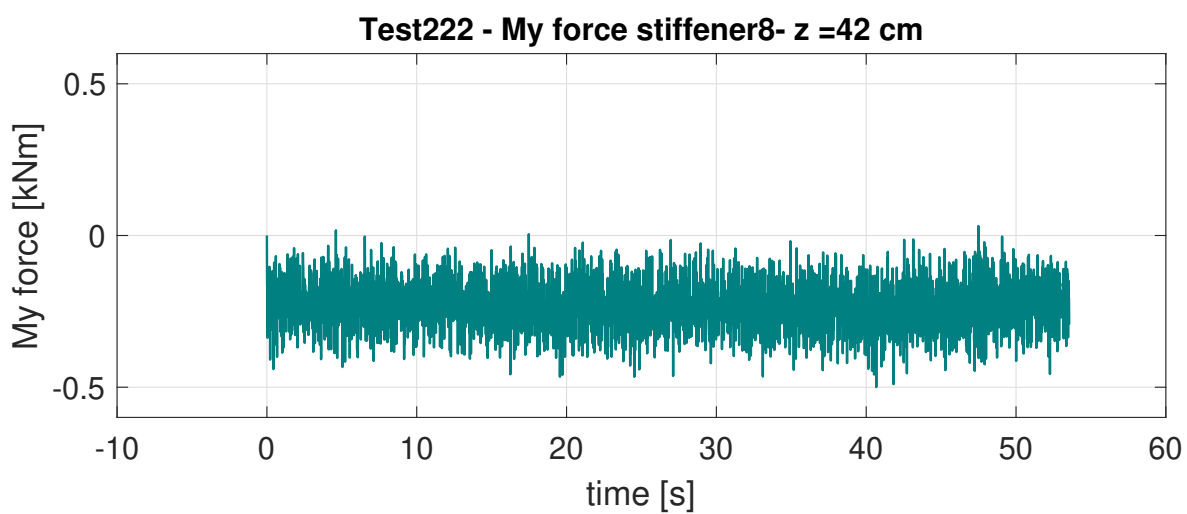
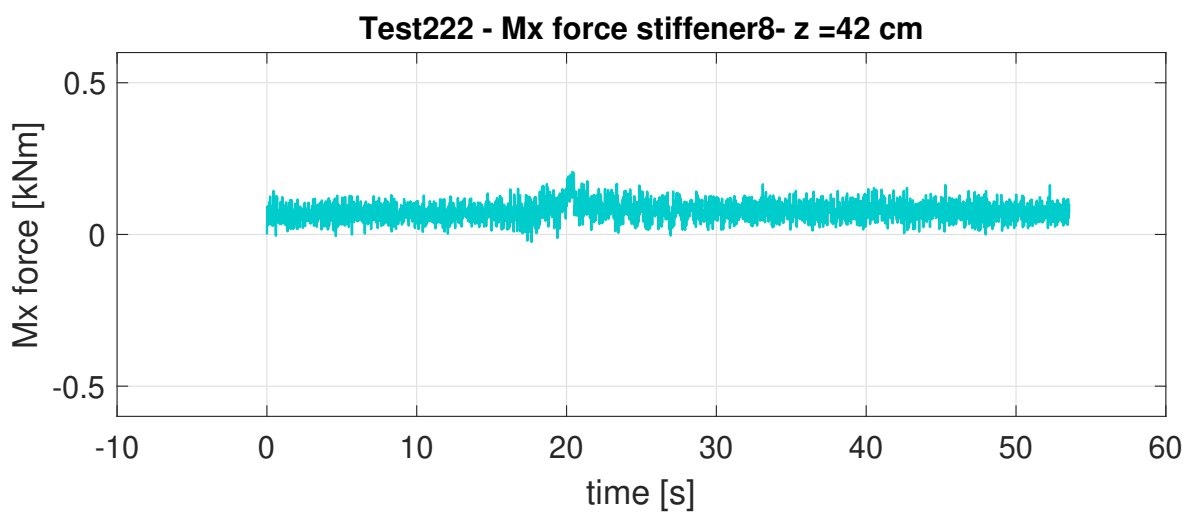
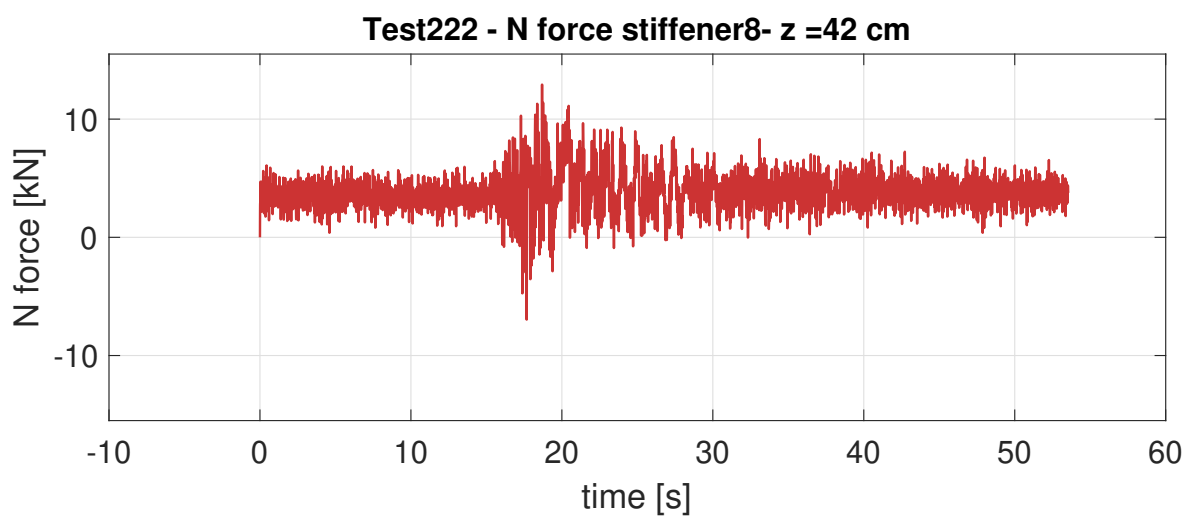
– Montante numero 6



- Montante numero 7

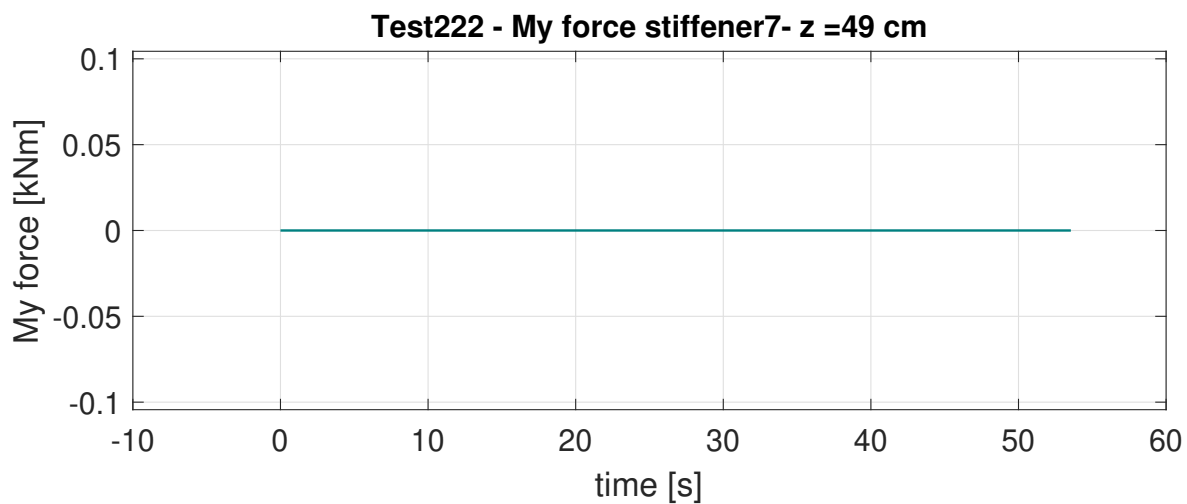
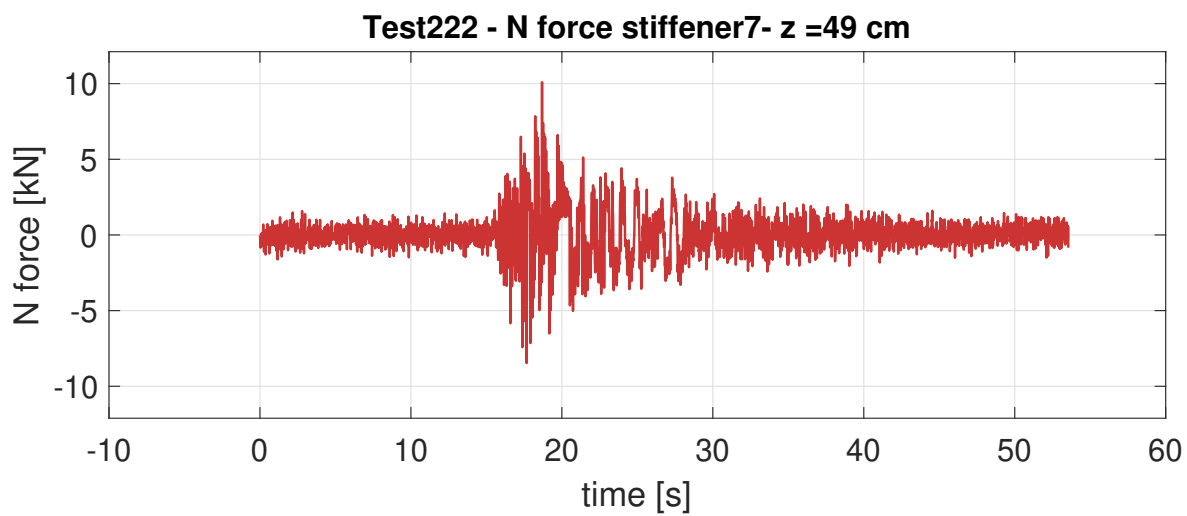


– Montante numero 8

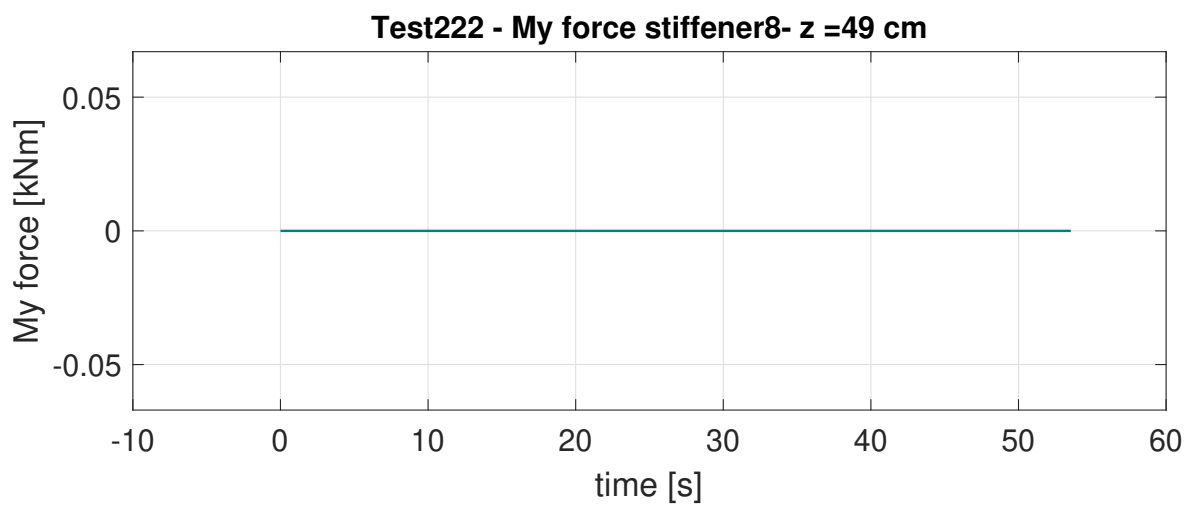
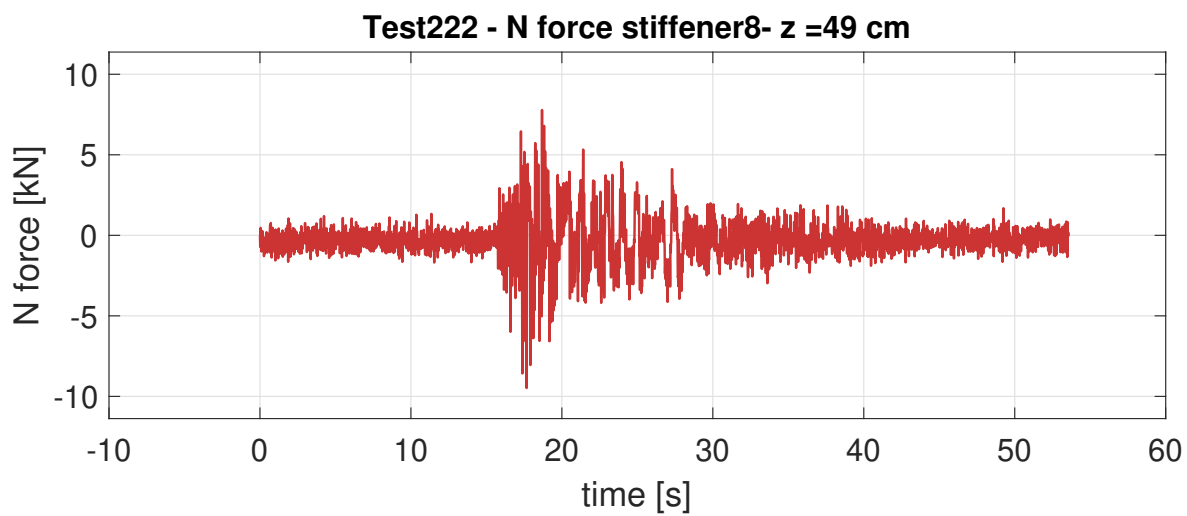


Quota z = 49 cm

– Montante numero 7

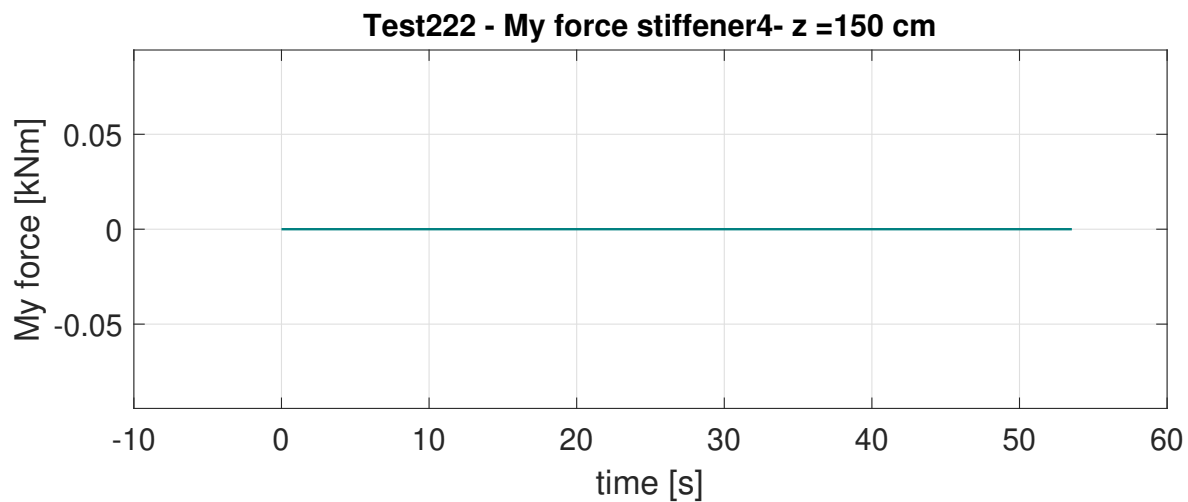
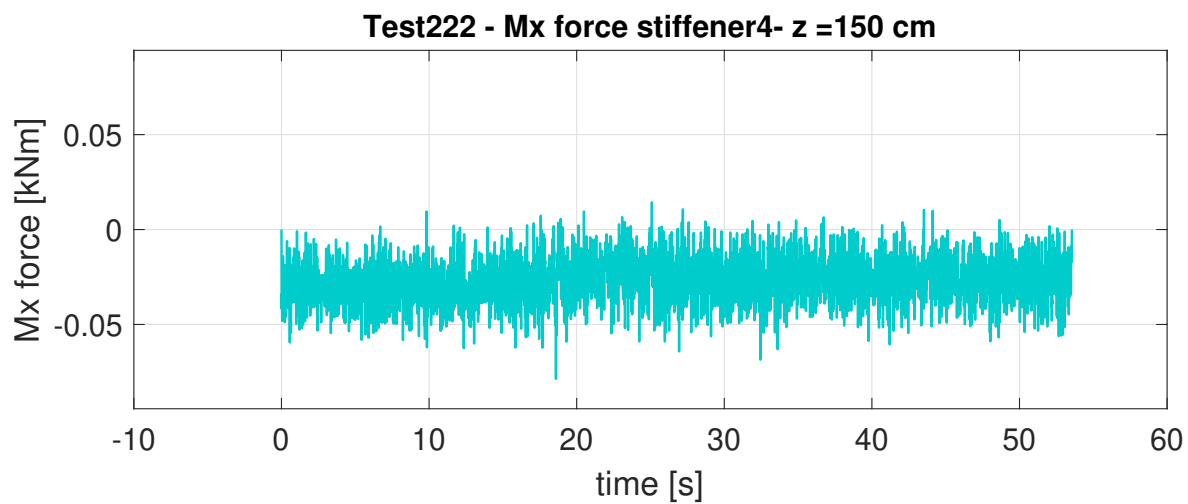
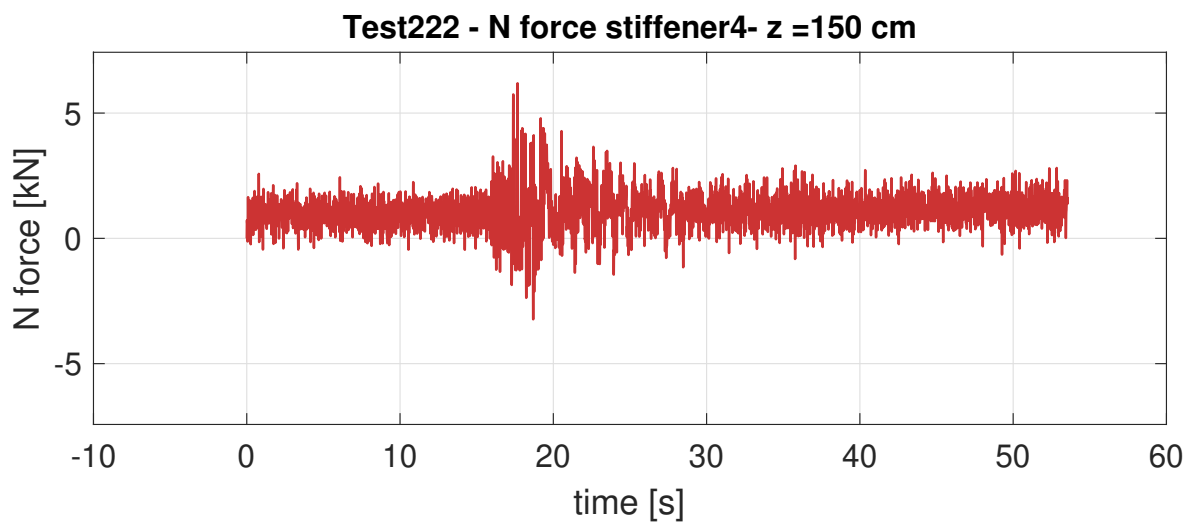


– Montante numero 8

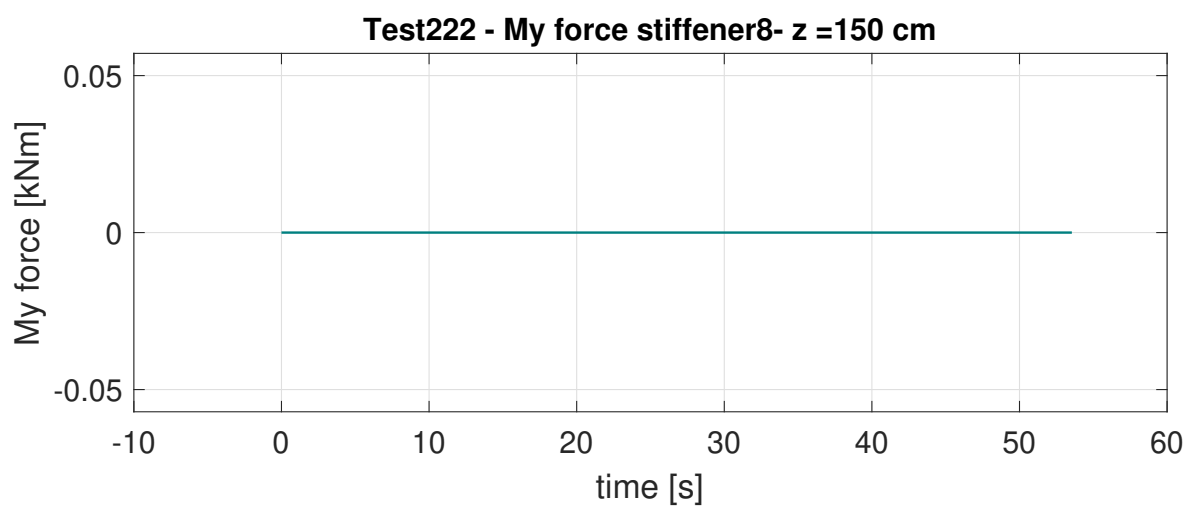
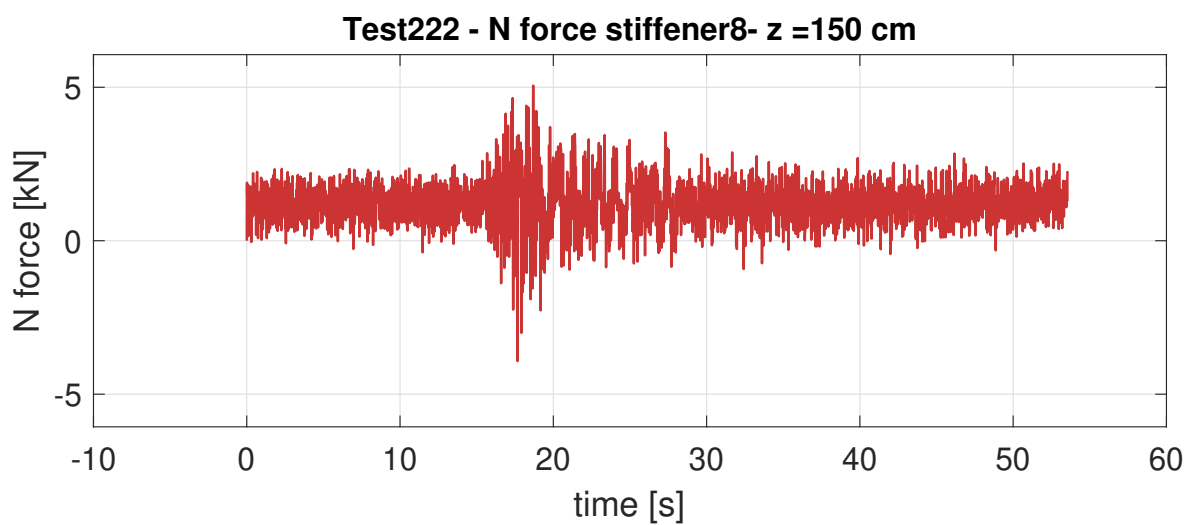


Quota z = 150 cm

– Montante numero 4

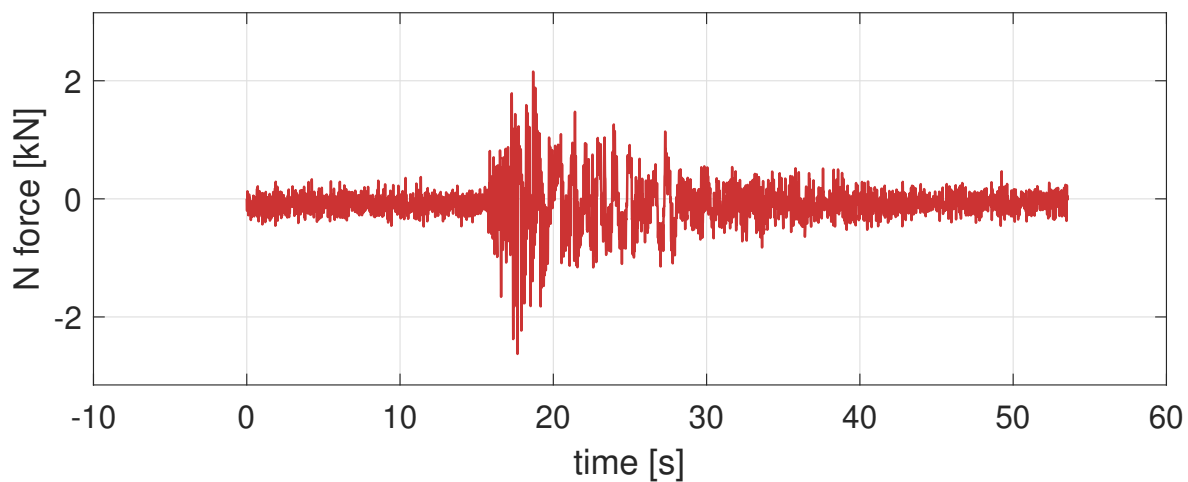
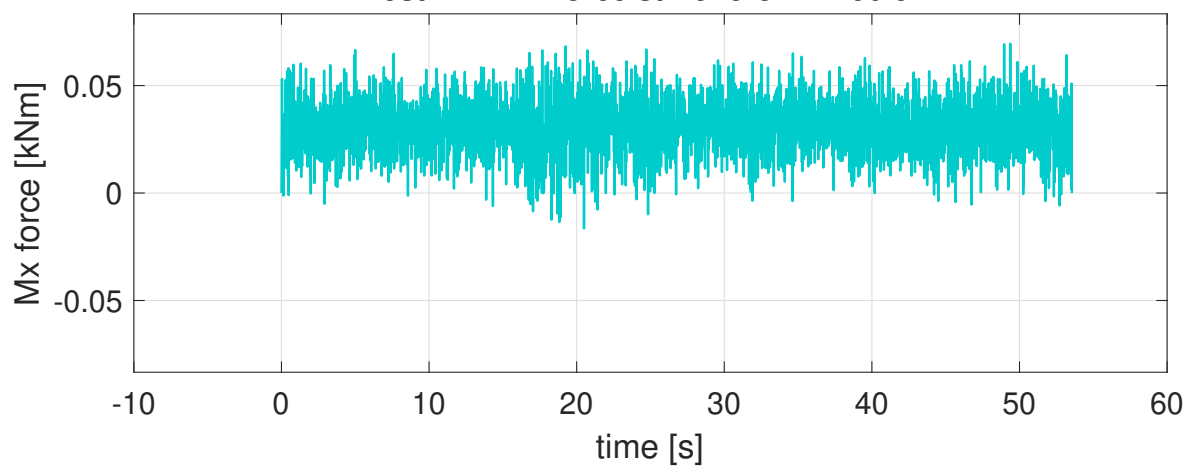
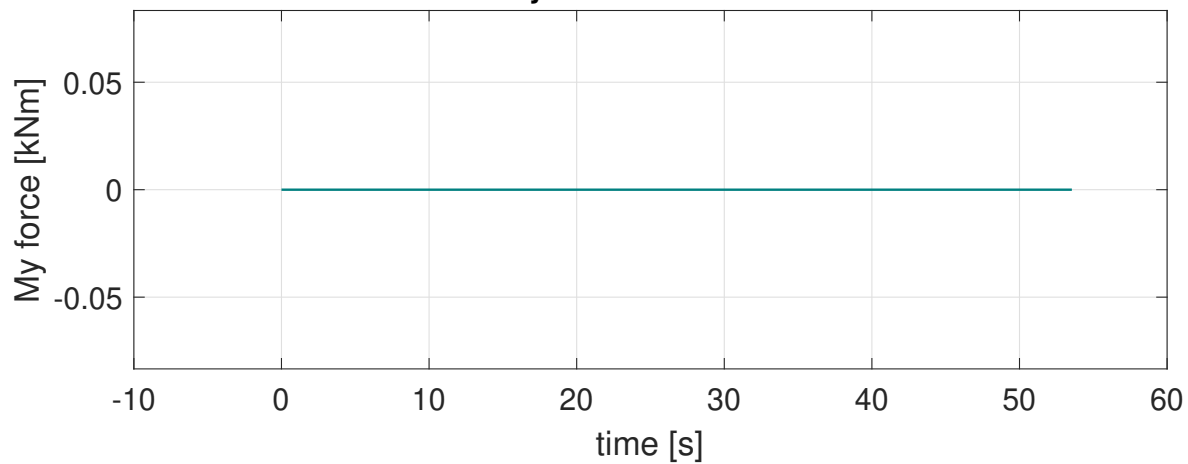


– Montante numero 8



Quota $z = 250$ cm

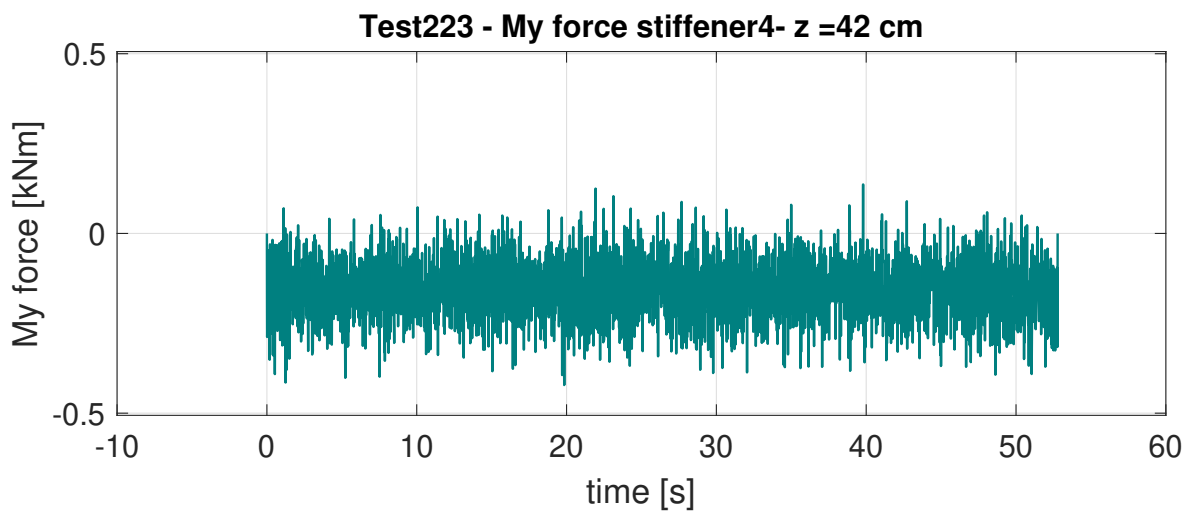
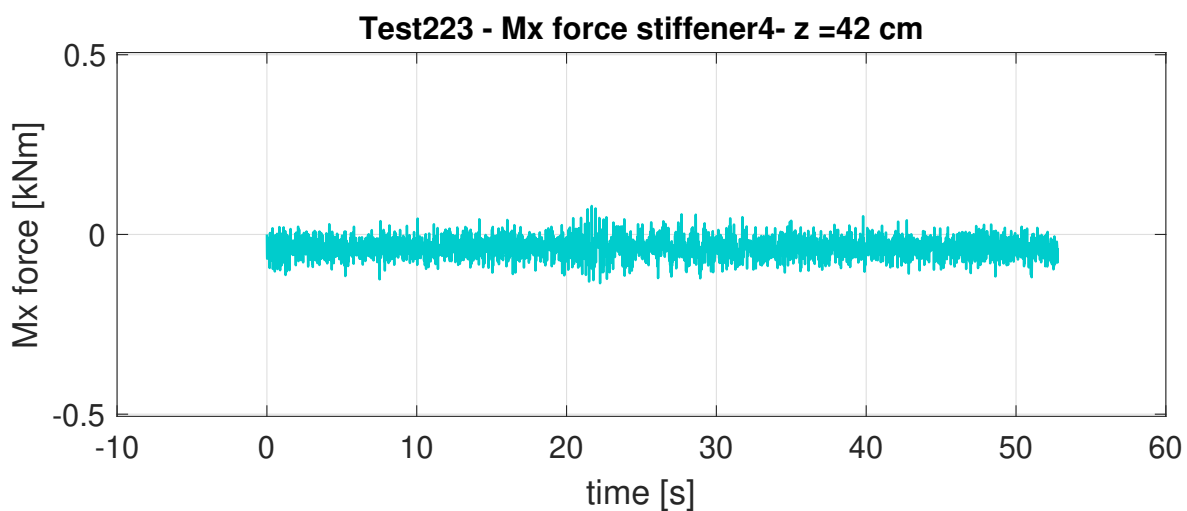
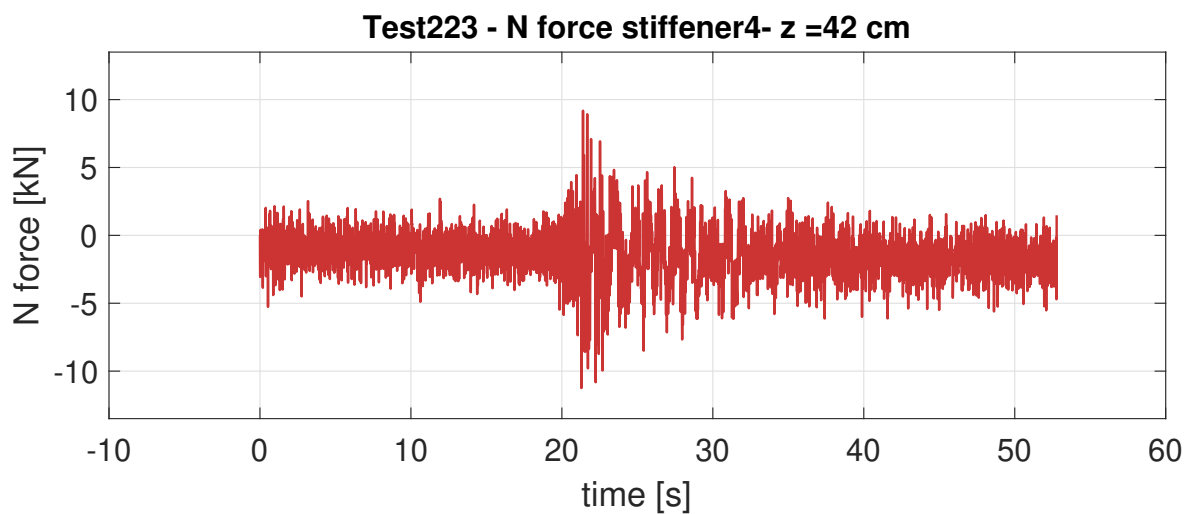
– Montante numero 8

Test222 - N force stiffener8- z =250 cm**Test222 - Mx force stiffener8- z =250 cm****Test222 - My force stiffener8- z =250 cm**

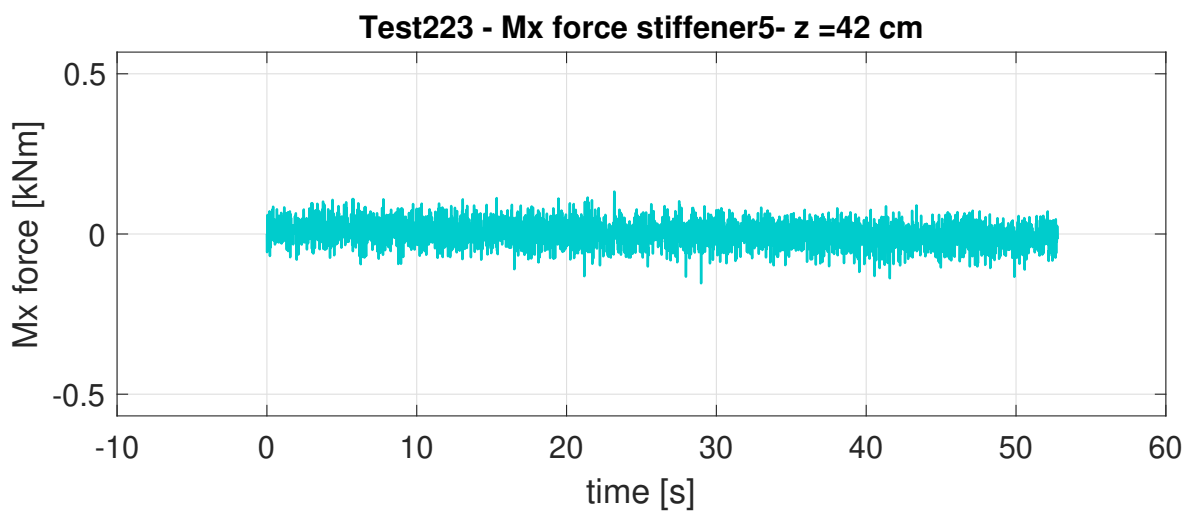
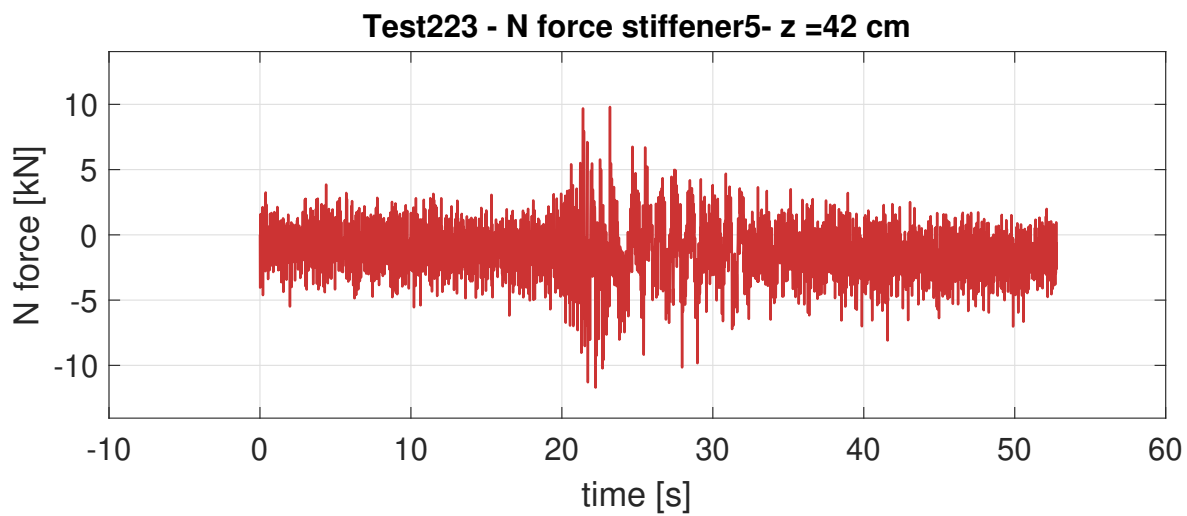
- Terremoto RS3 0.55 g

Quota $z = 42$ cm

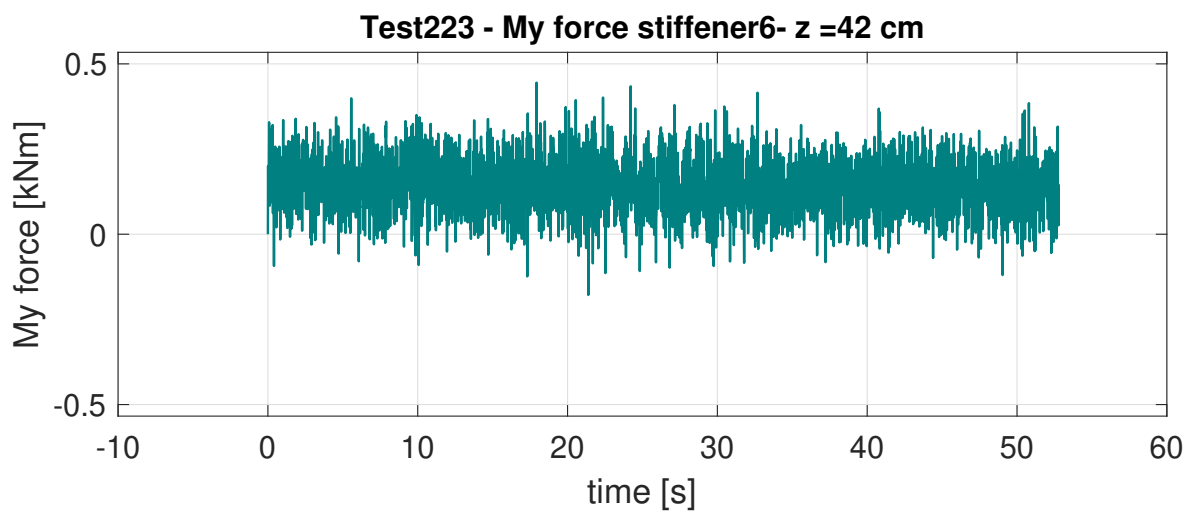
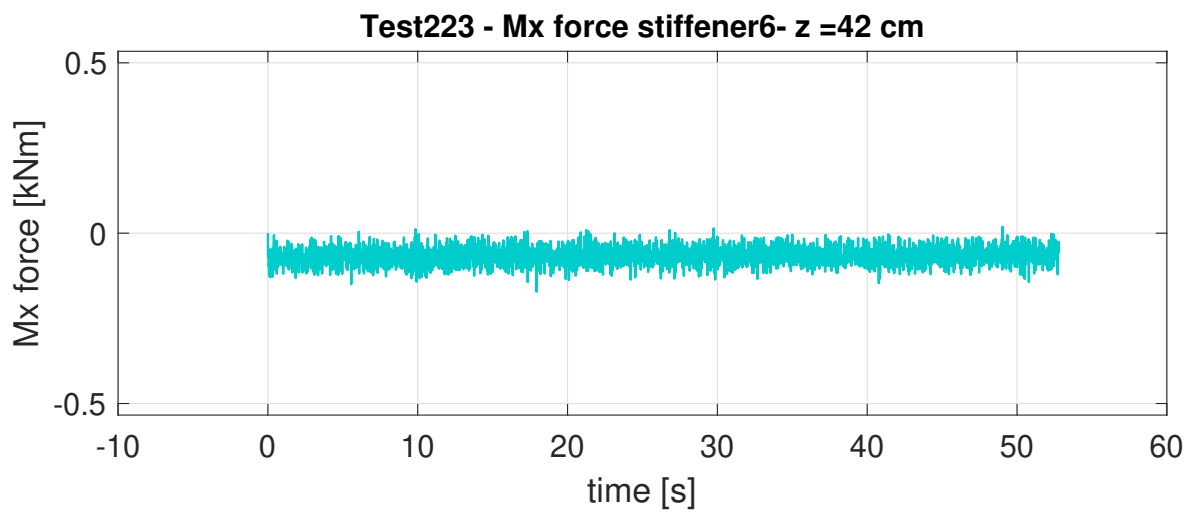
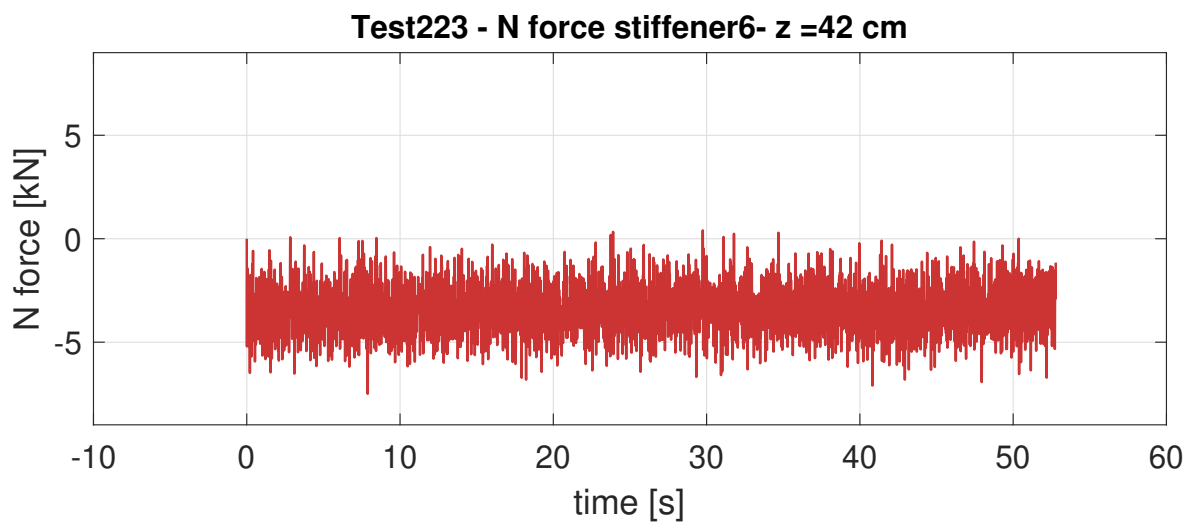
– Montante numero 4



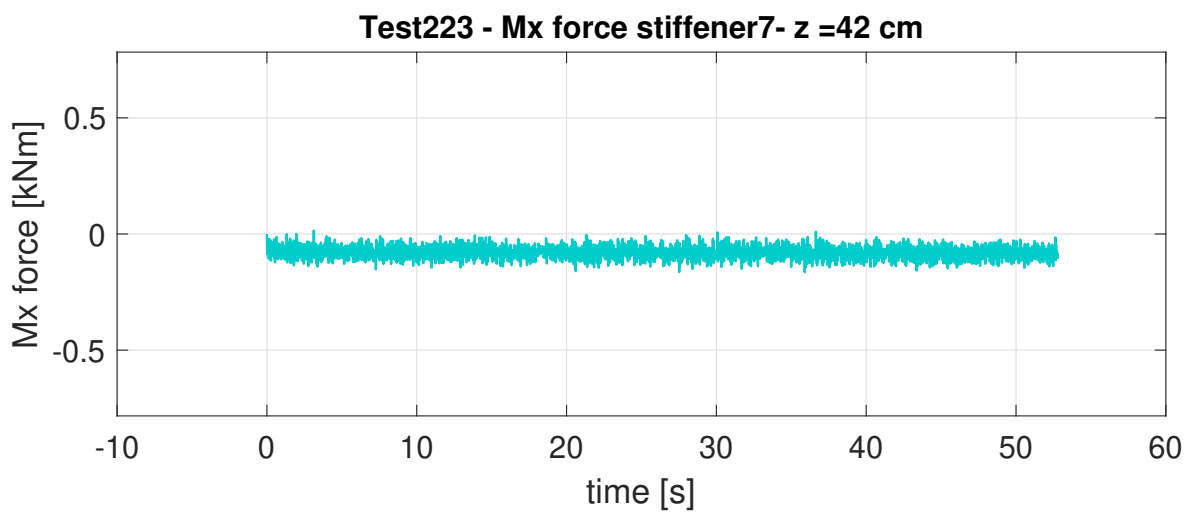
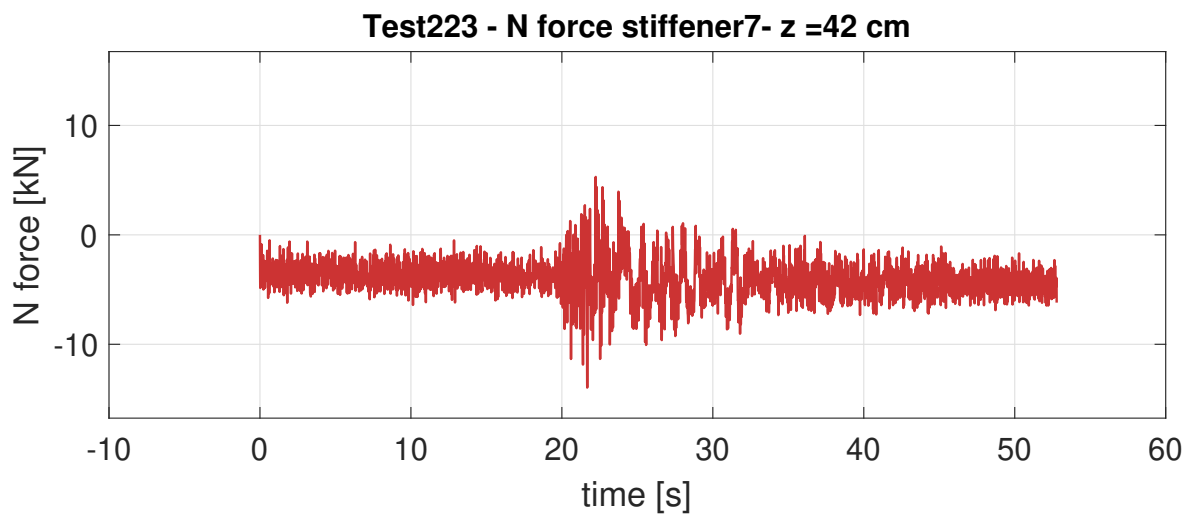
- Montante numero 5



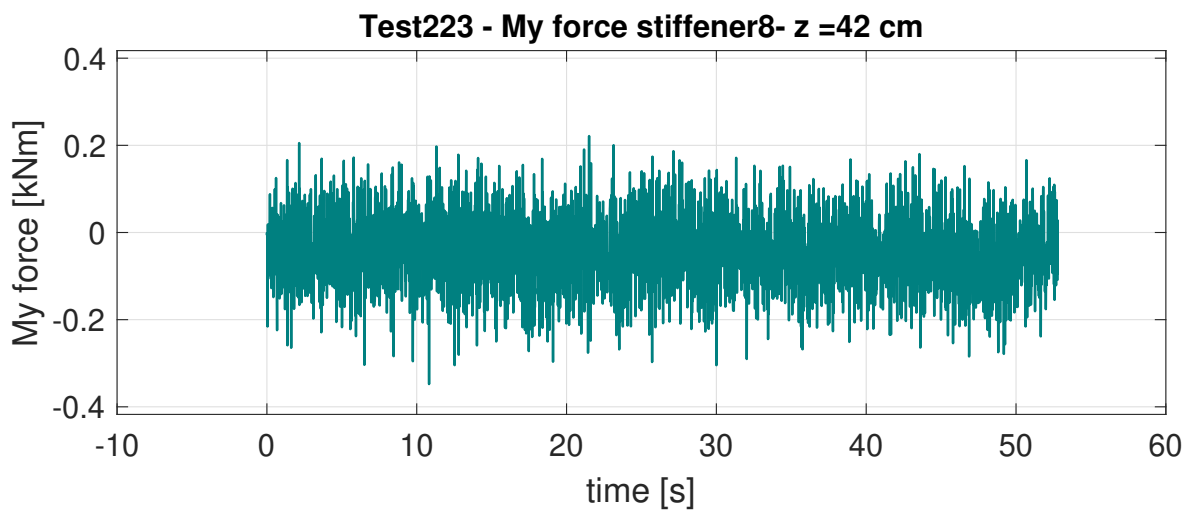
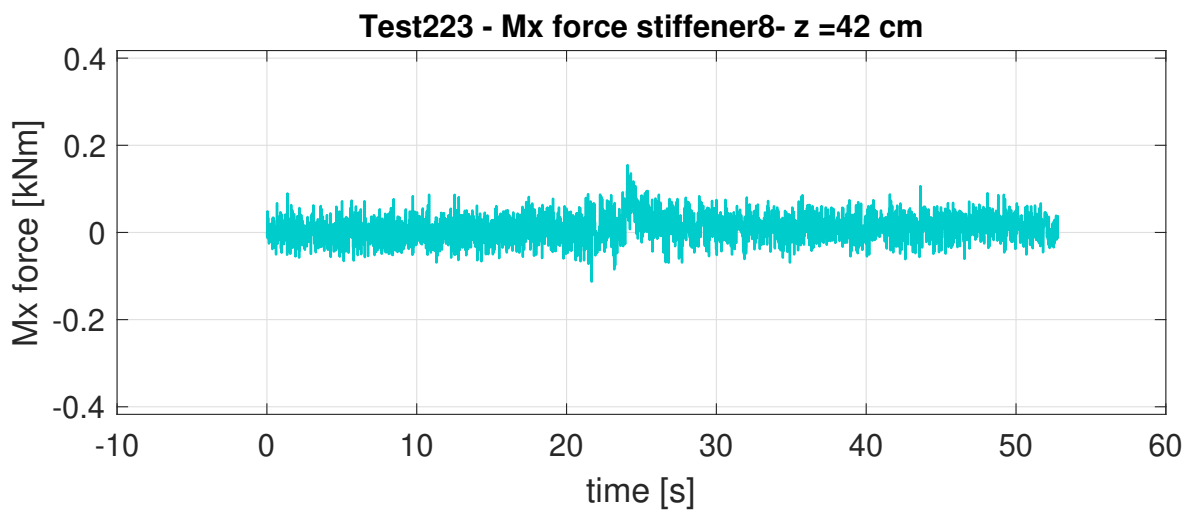
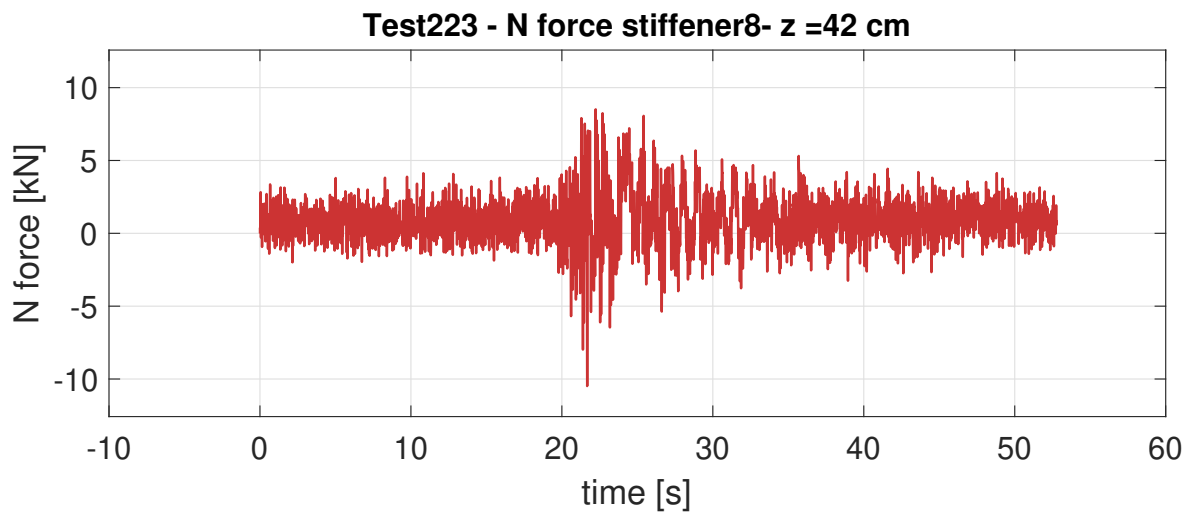
- Montante numero 6



- Montante numero 7

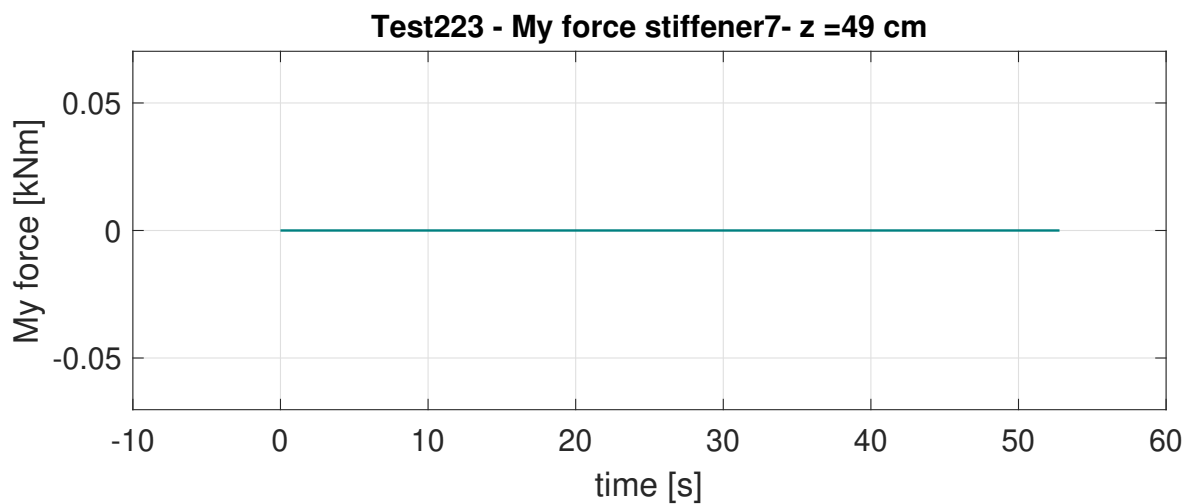
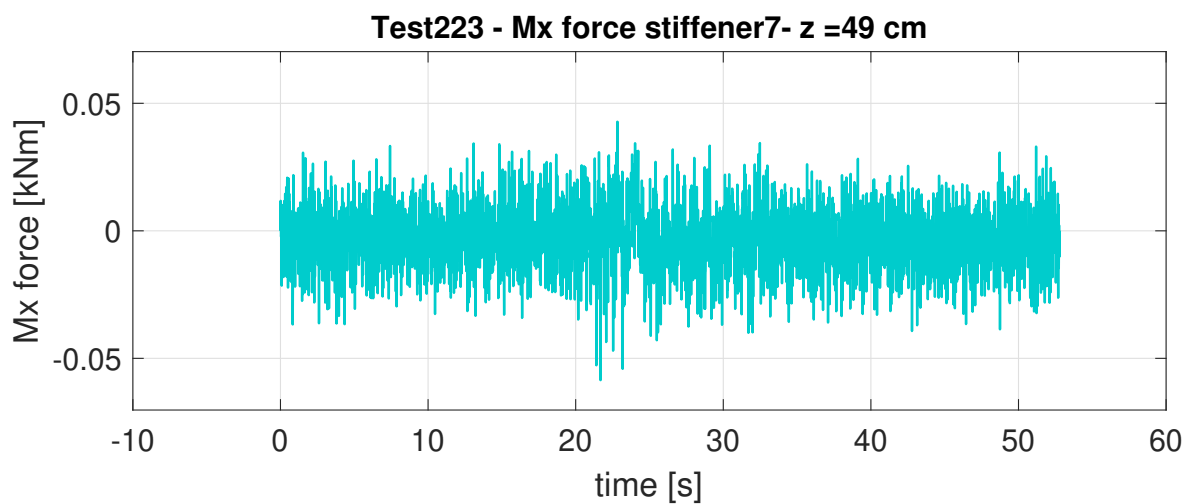
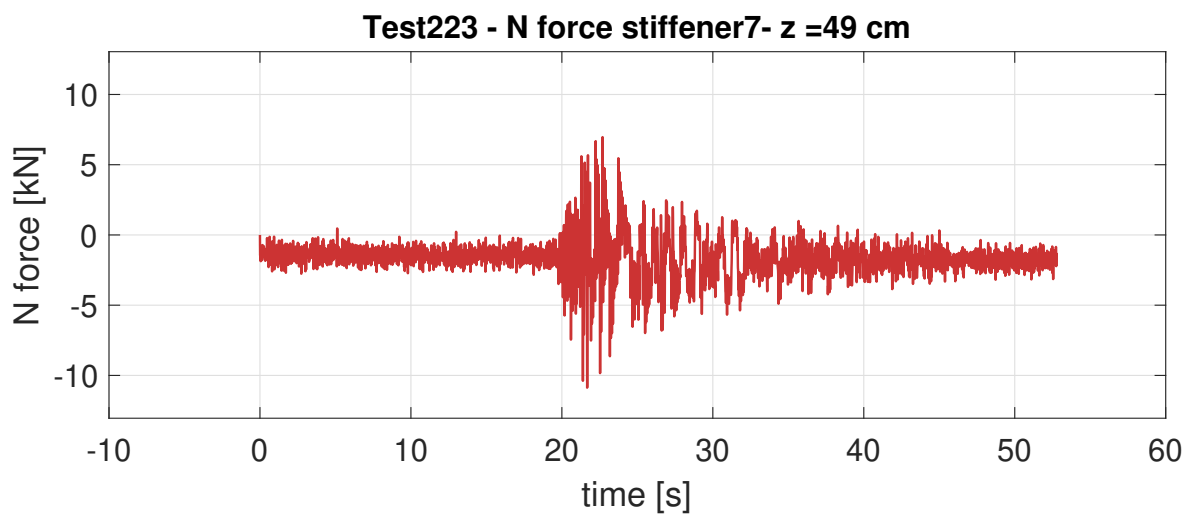


– Montante numero 8

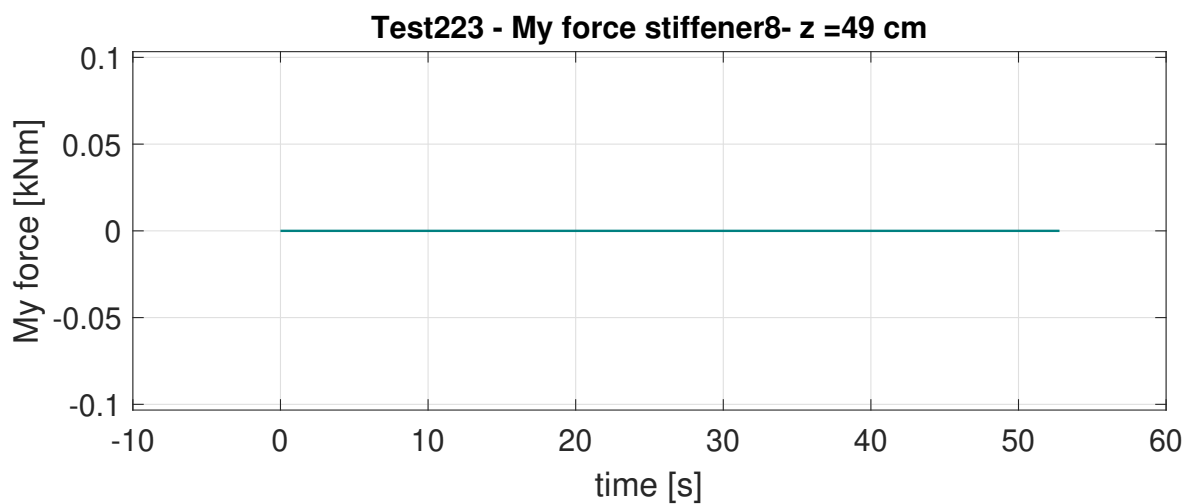
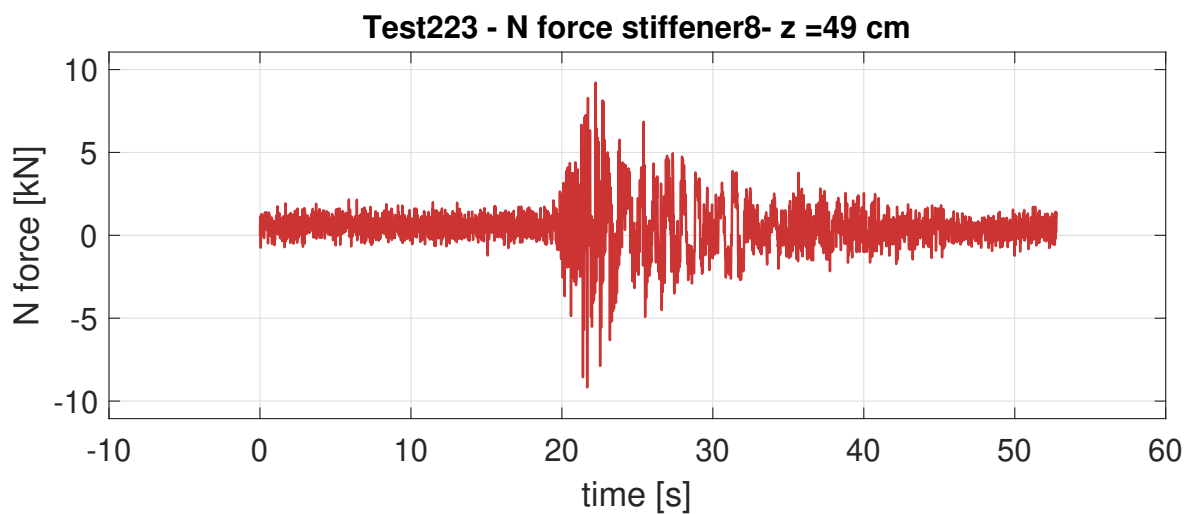


Quota z = 49 cm

– Montante numero 7

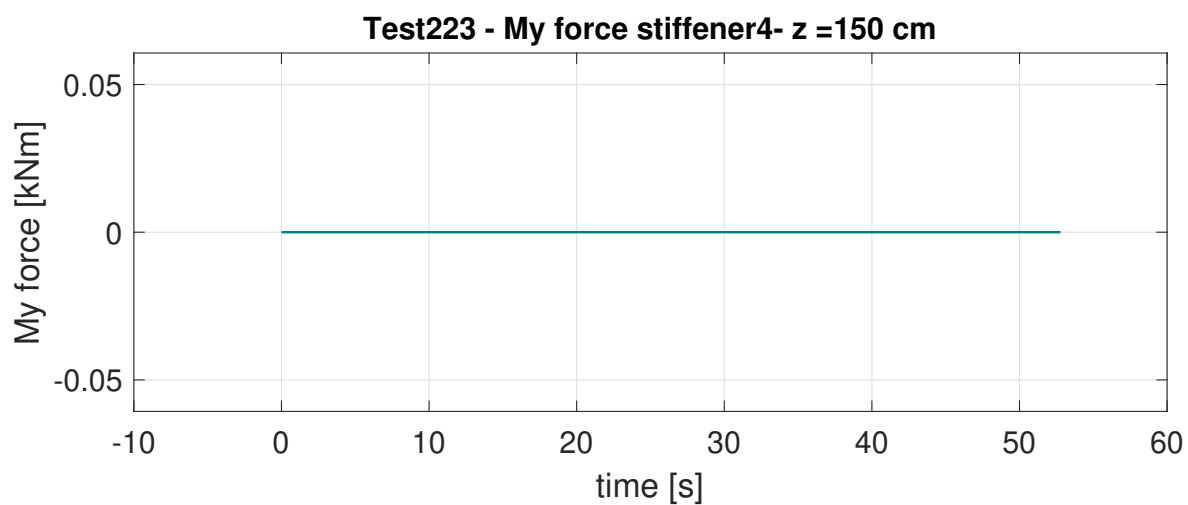
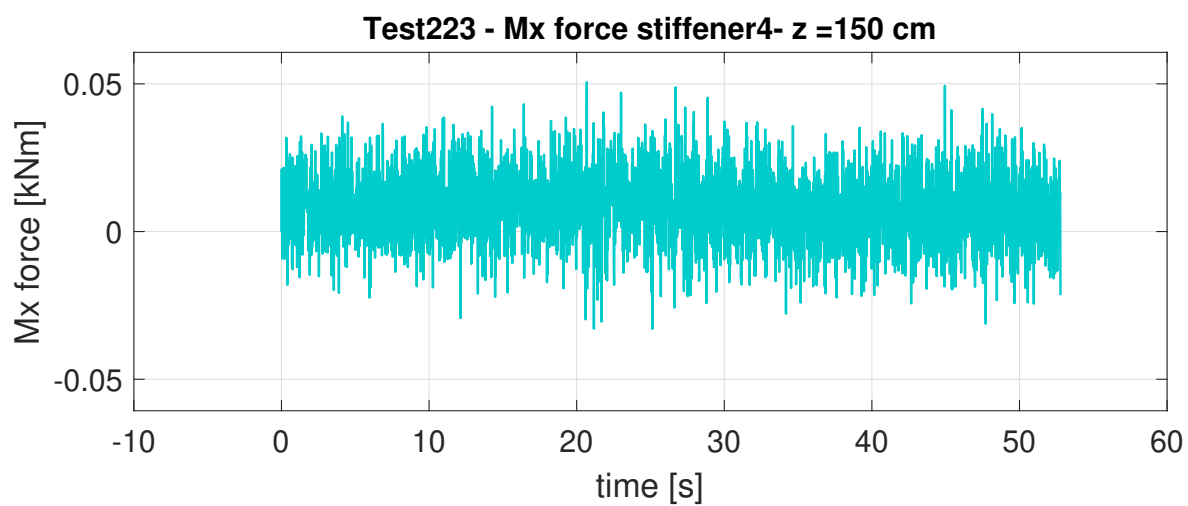
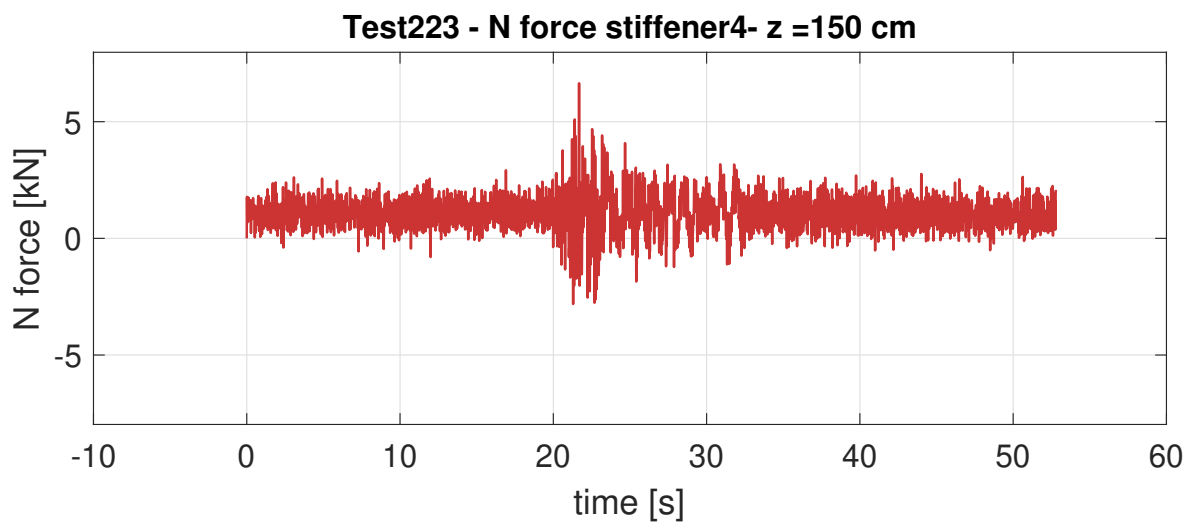


– Montante numero 8

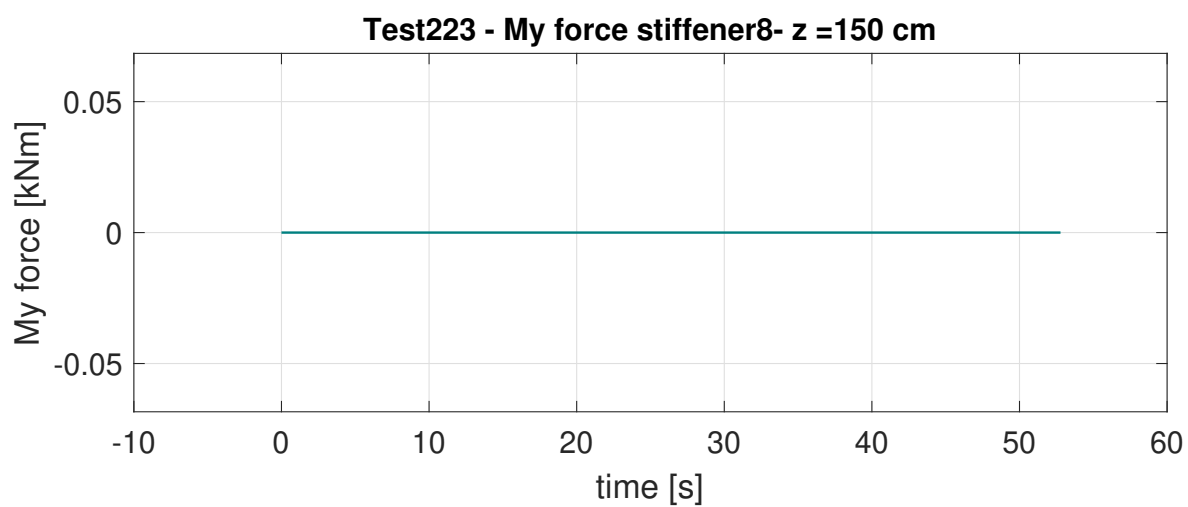
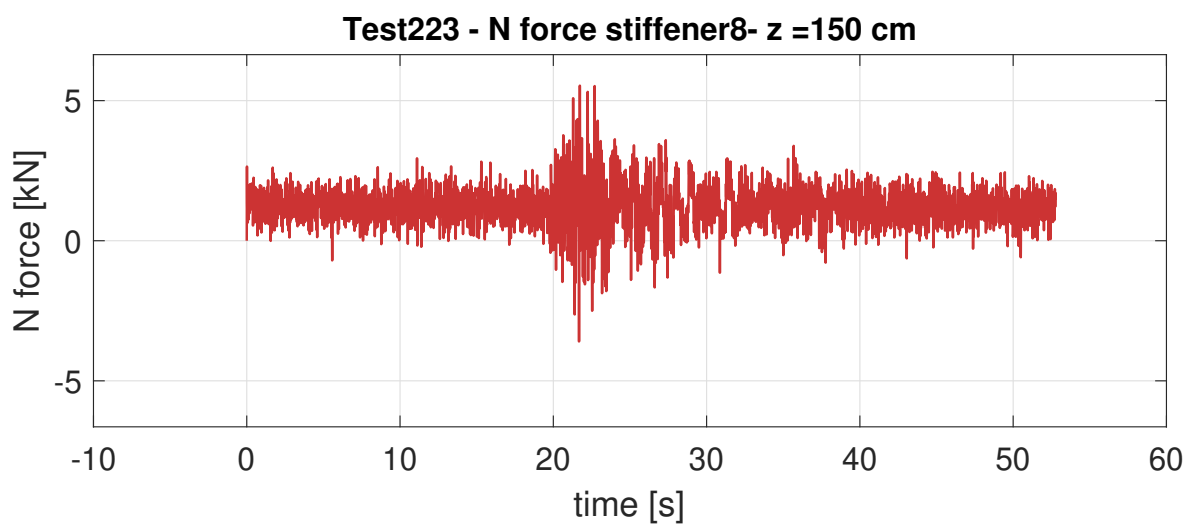


Quota z = 150 cm

– Montante numero 4

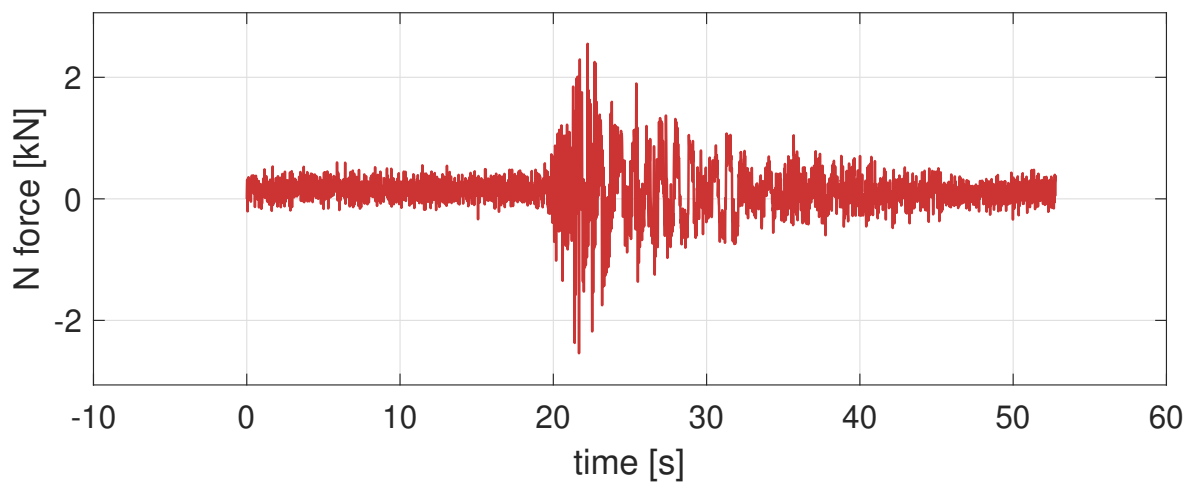
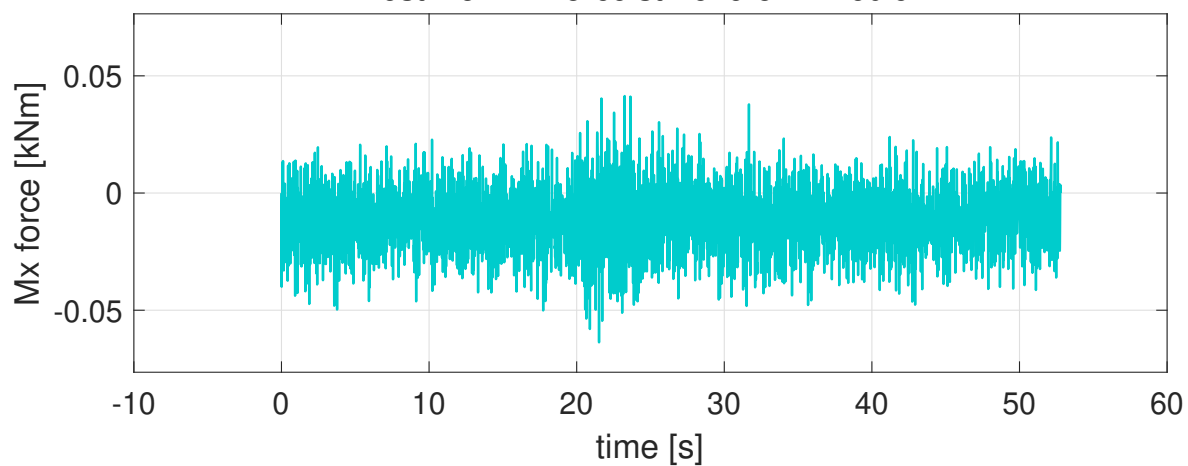
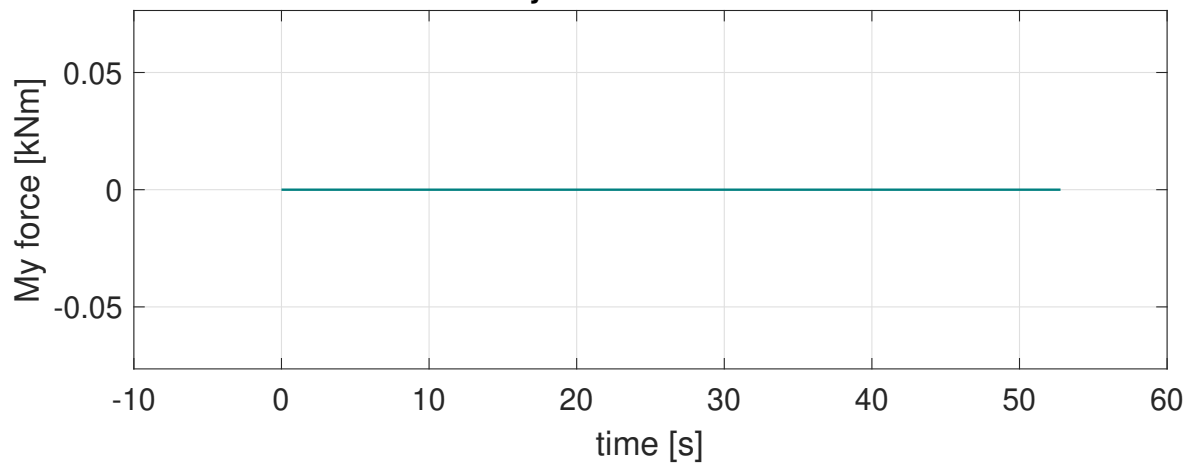


- Montante numero 8



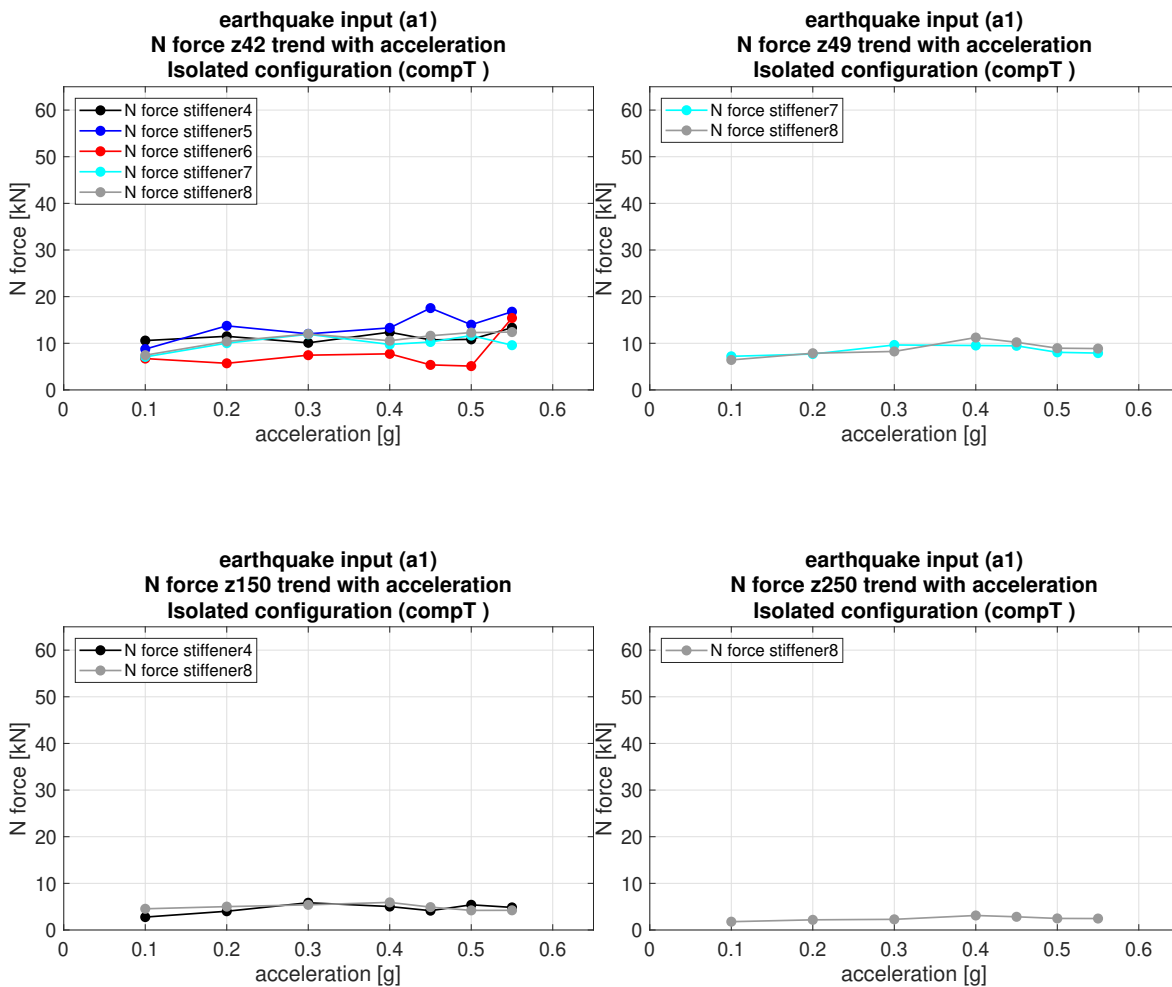
Quota z = 250 cm

– Montante numero 8

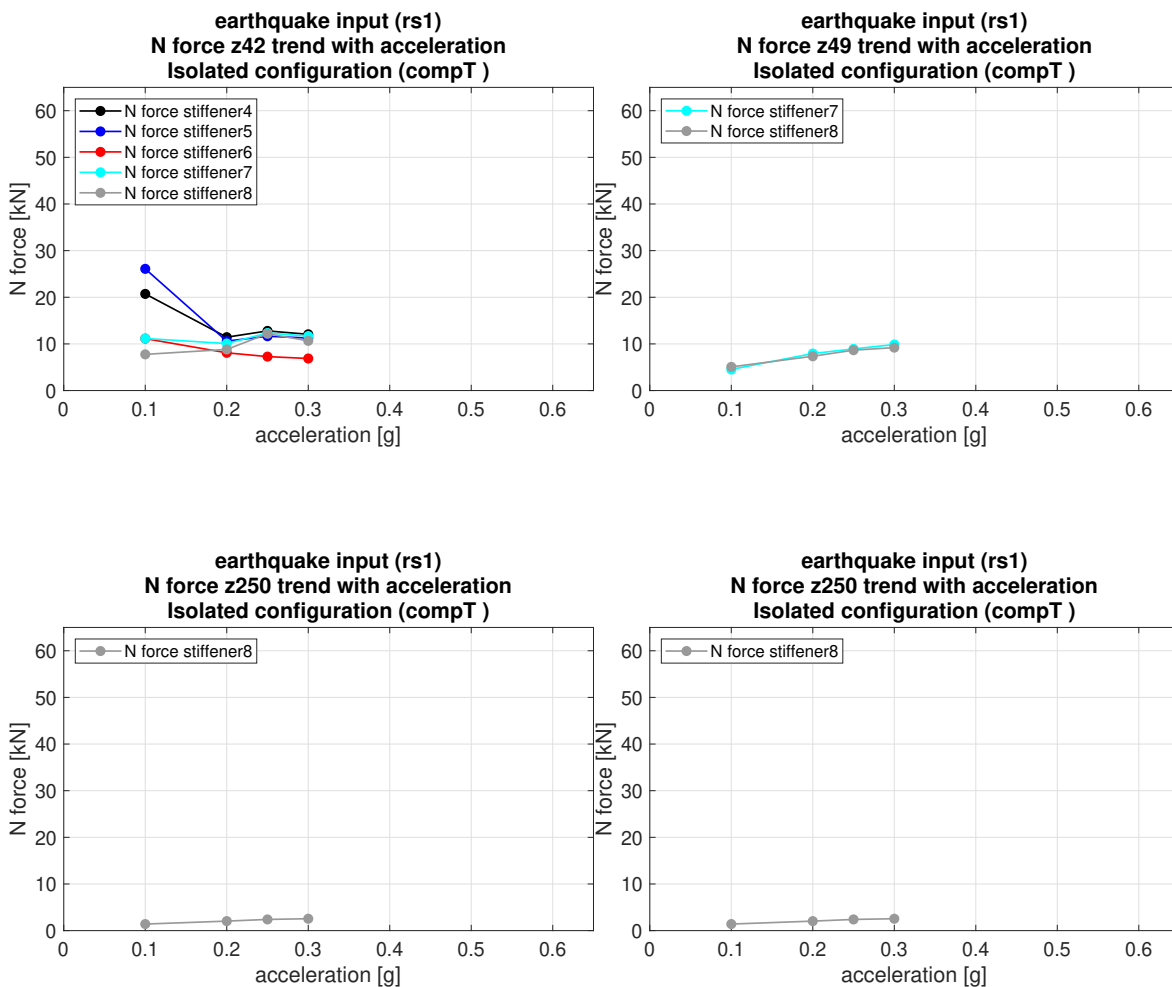
Test223 - N force stiffener8- z =250 cm**Test223 - Mx force stiffener8- z =250 cm****Test223 - My force stiffener8- z =250 cm**

Andamento dello sforzo normale con l'accelerazione

- Terremoto A1



• Terremoto RS1



• Terremoto RS₃

