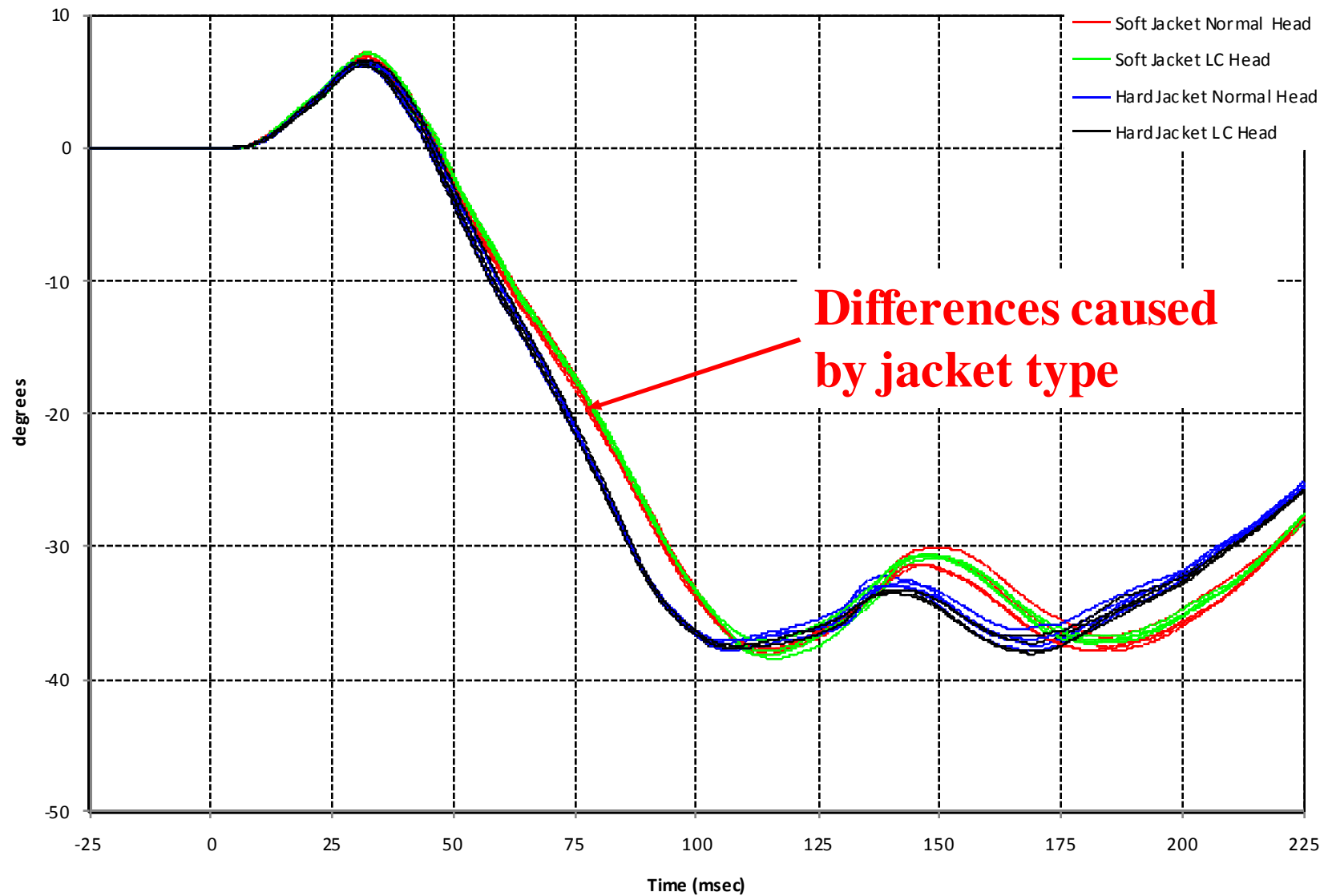


Jacket – Head DOE

Dummy Certification

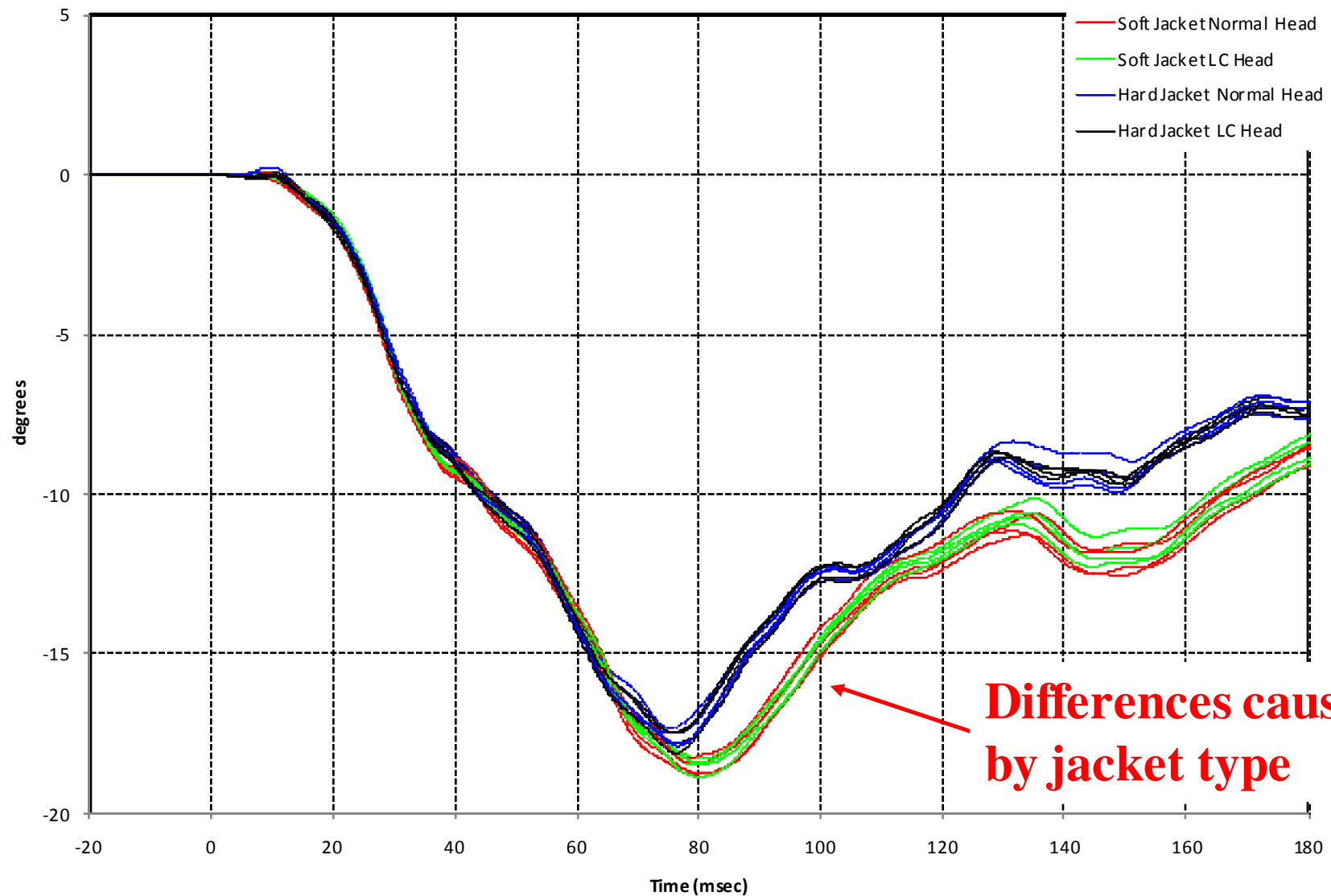
Total Head Rotation about T1



Jacket – Head DOE

Dummy Certification

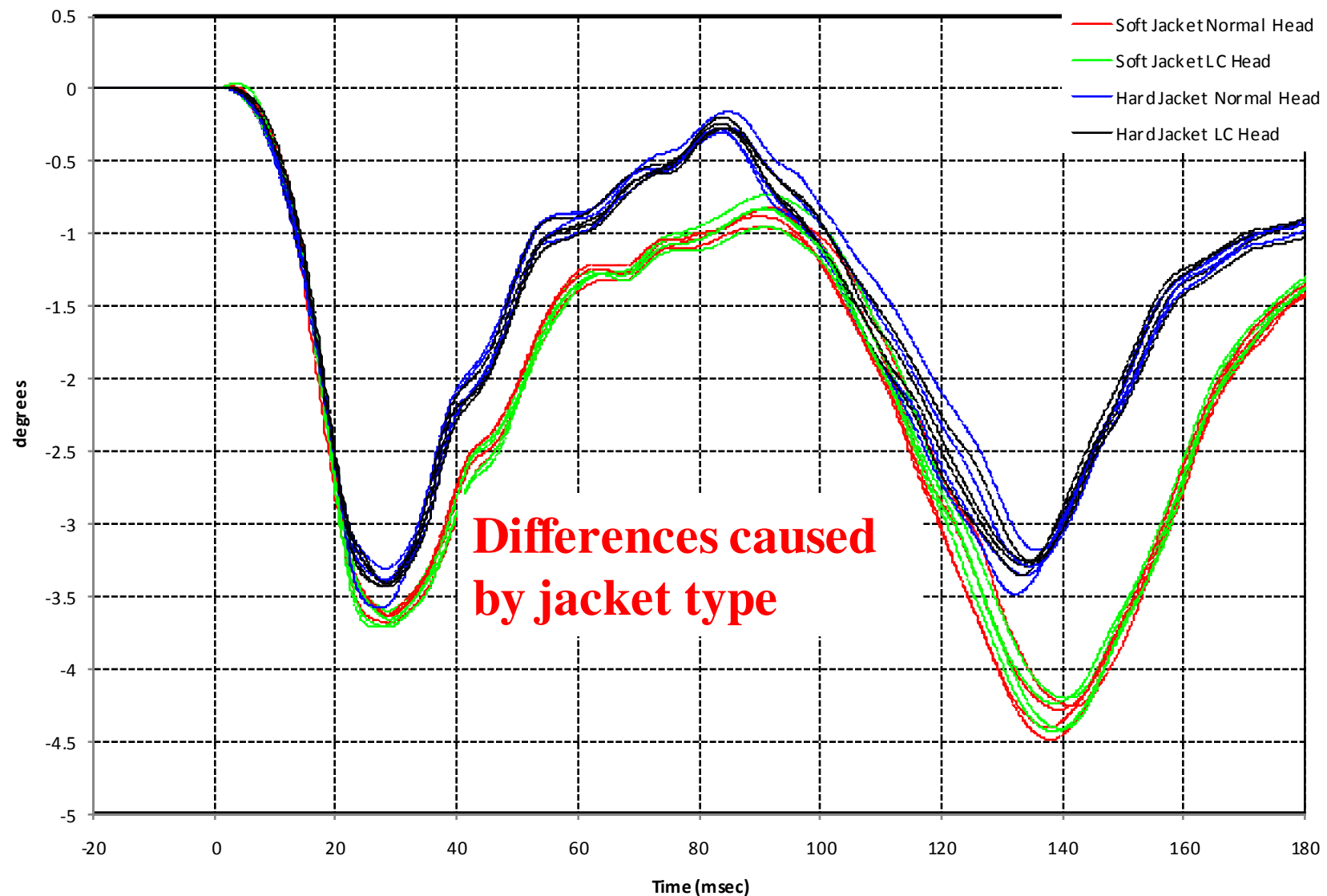
Pot C - T1 Rotation



Jacket – Head DOE

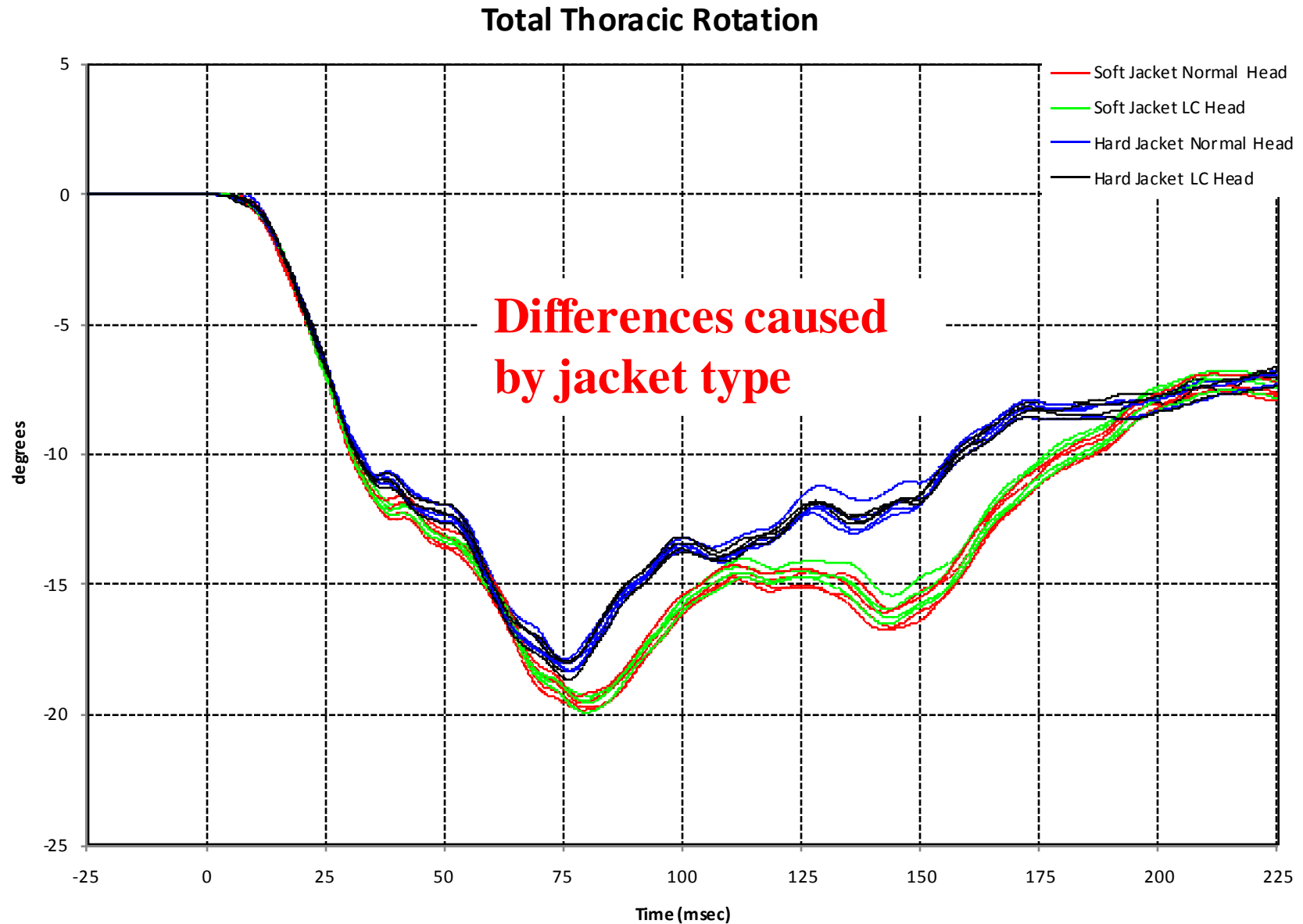
Dummy Certification

Pot D - Lower Thorax Rotation



Jacket – Head DOE

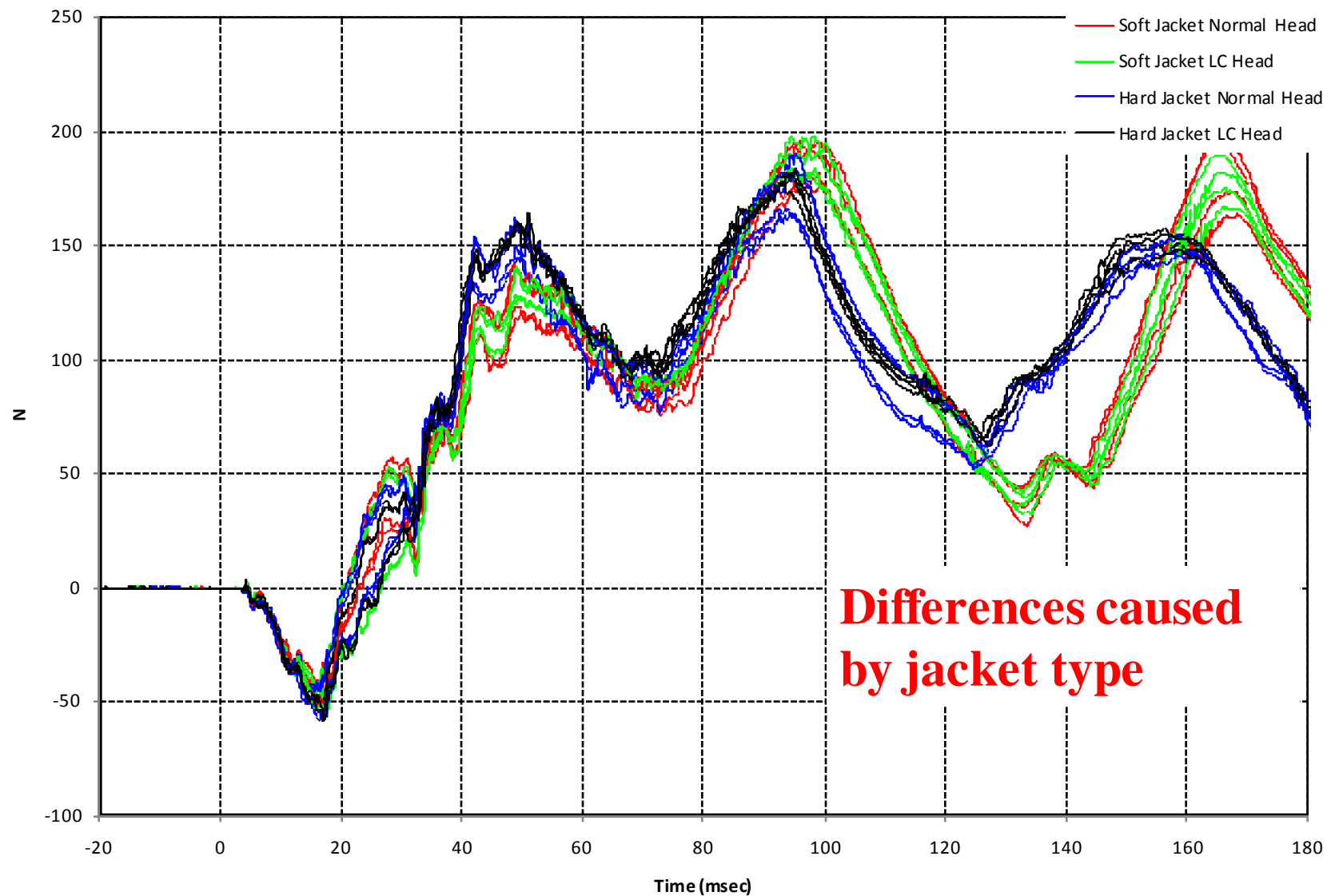
Dummy Certification



Jacket – Head DOE

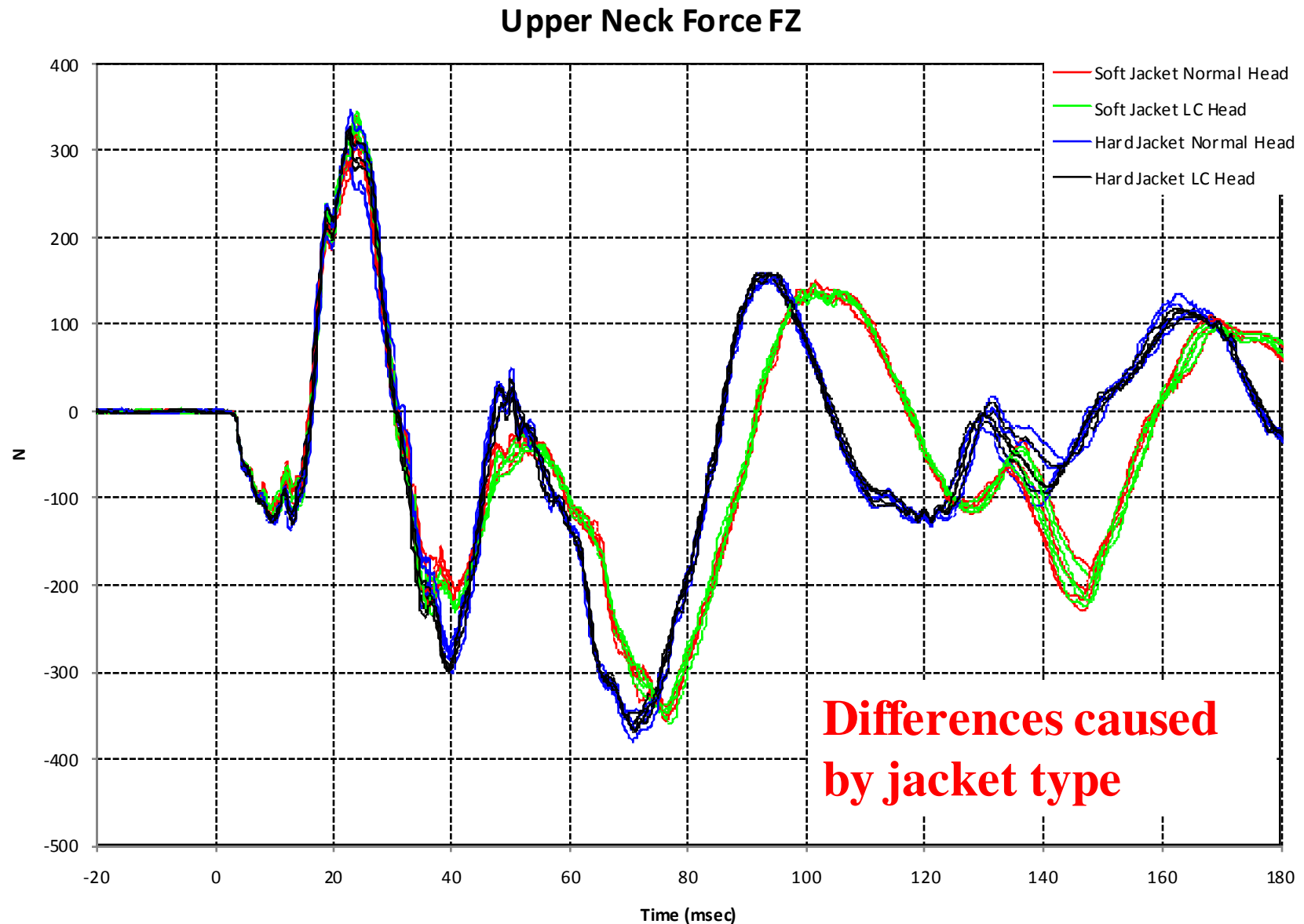
Dummy Certification

Upper Neck Force FX



Jacket – Head DOE

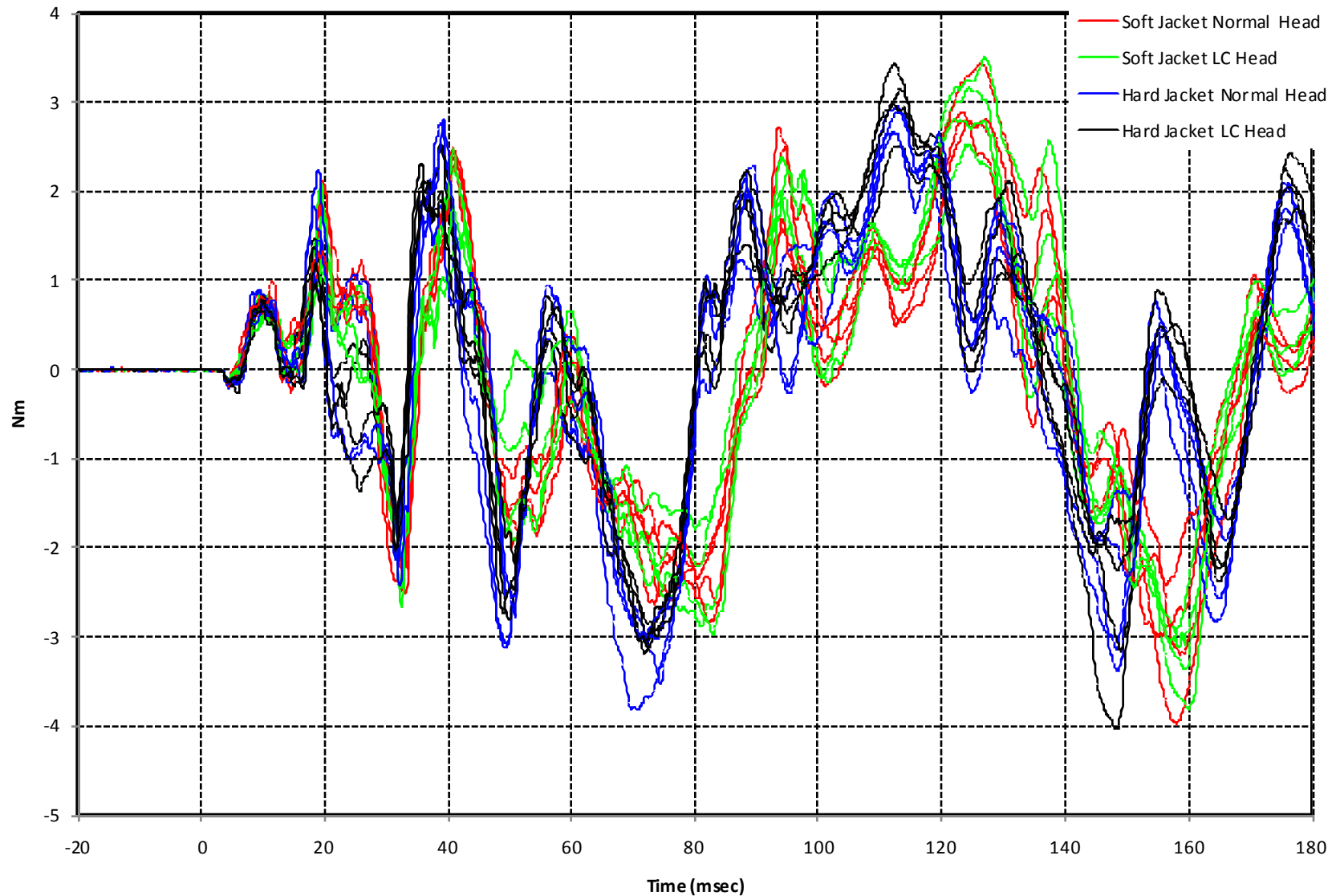
Dummy Certification



Jacket – Head DOE

Dummy Certification

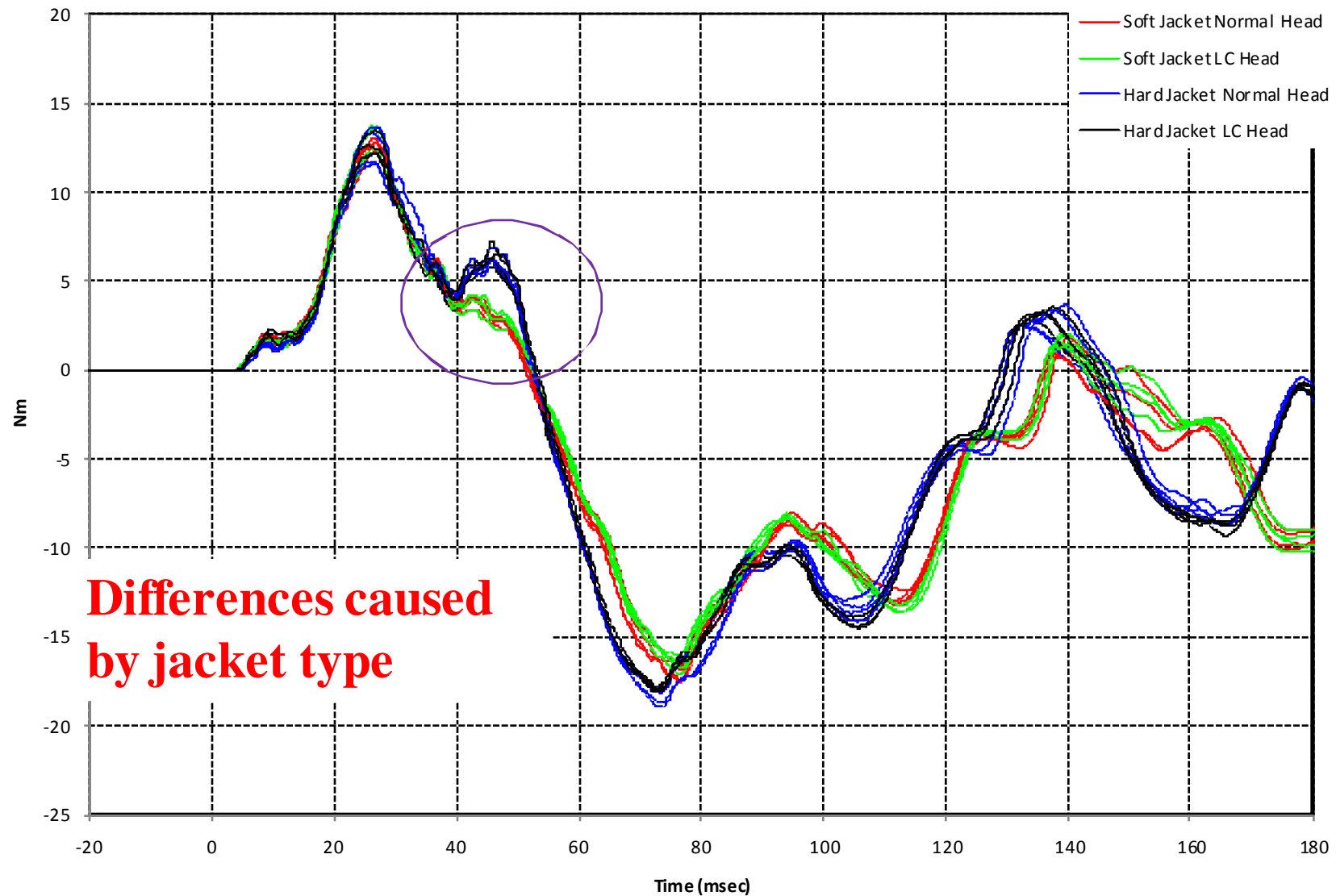
Upper Neck Moment MX



Jacket – Head DOE

Dummy Certification

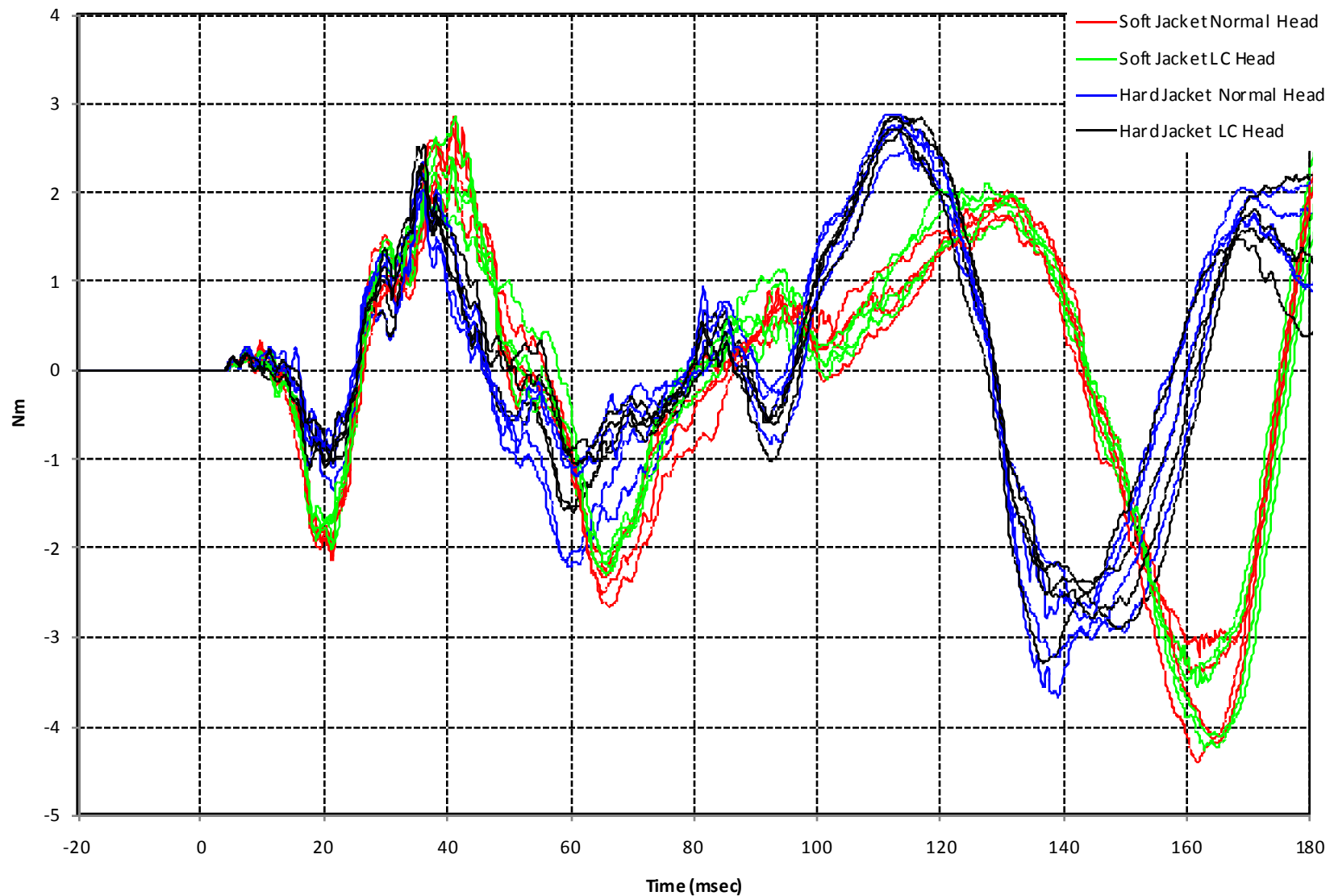
Upper Neck Moment MY



Jacket – Head DOE

Dummy Certification

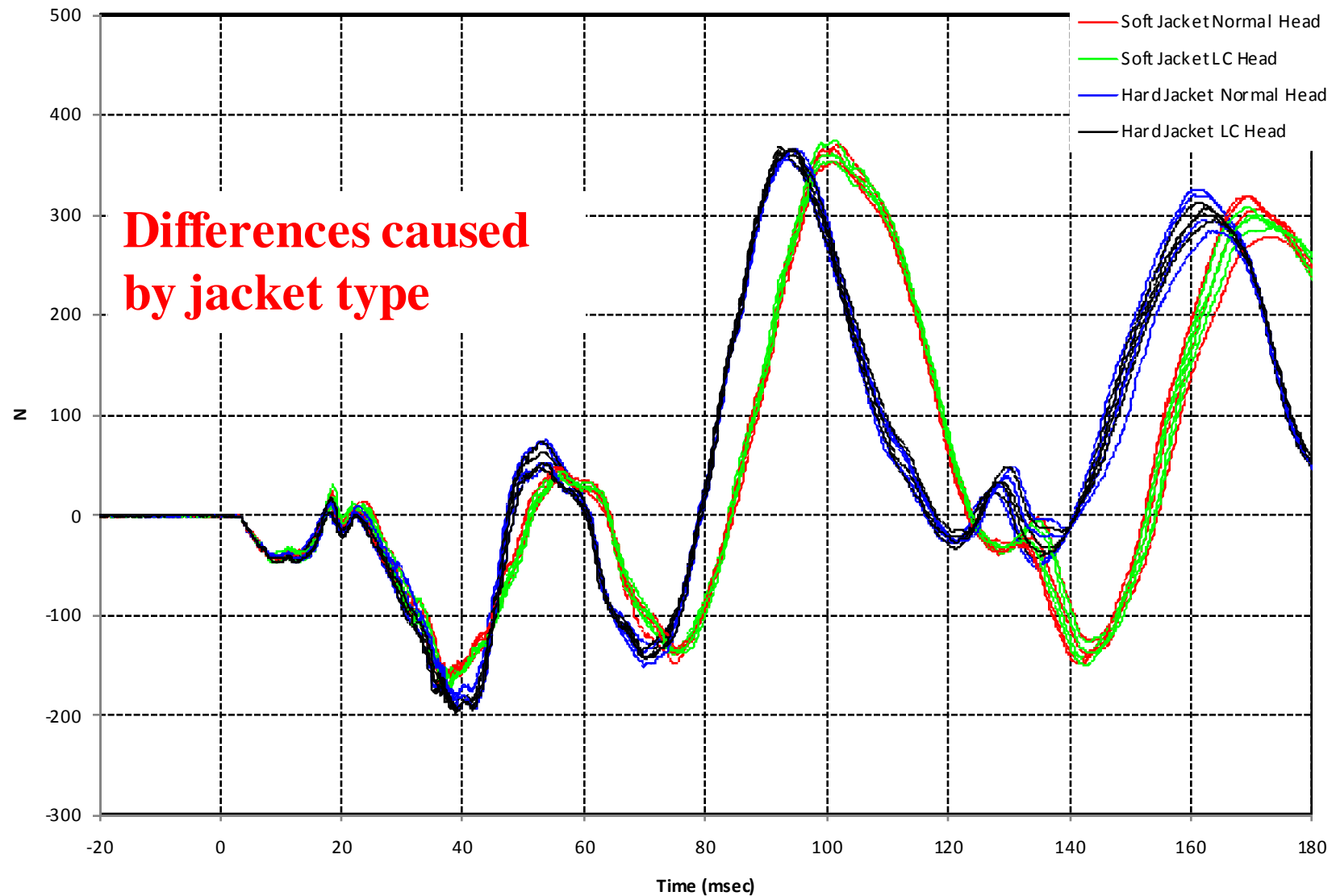
Upper Neck Moment MZ



Jacket – Head DOE

Dummy Certification

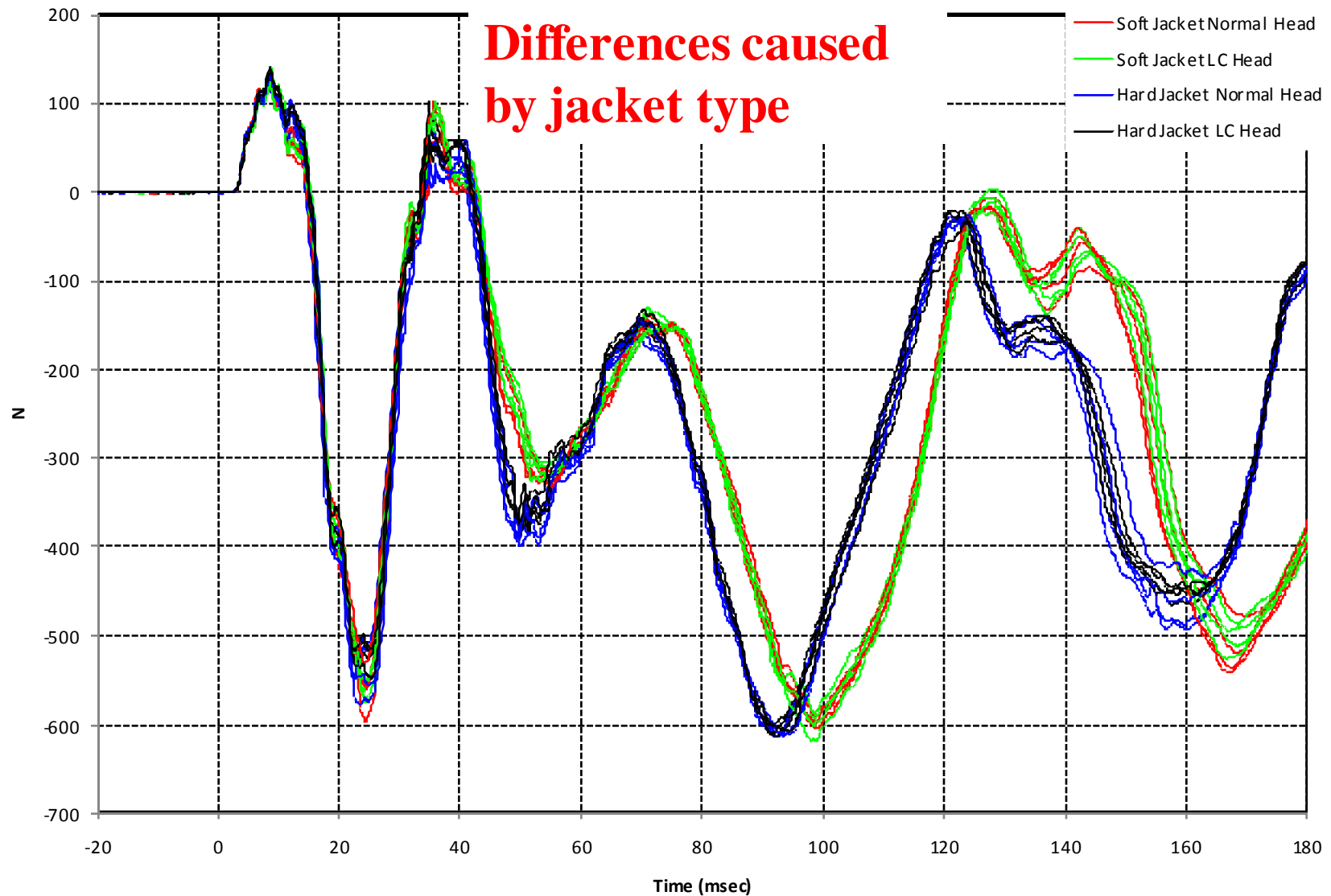
Lower Neck Force FX



Jacket – Head DOE

Dummy Certification

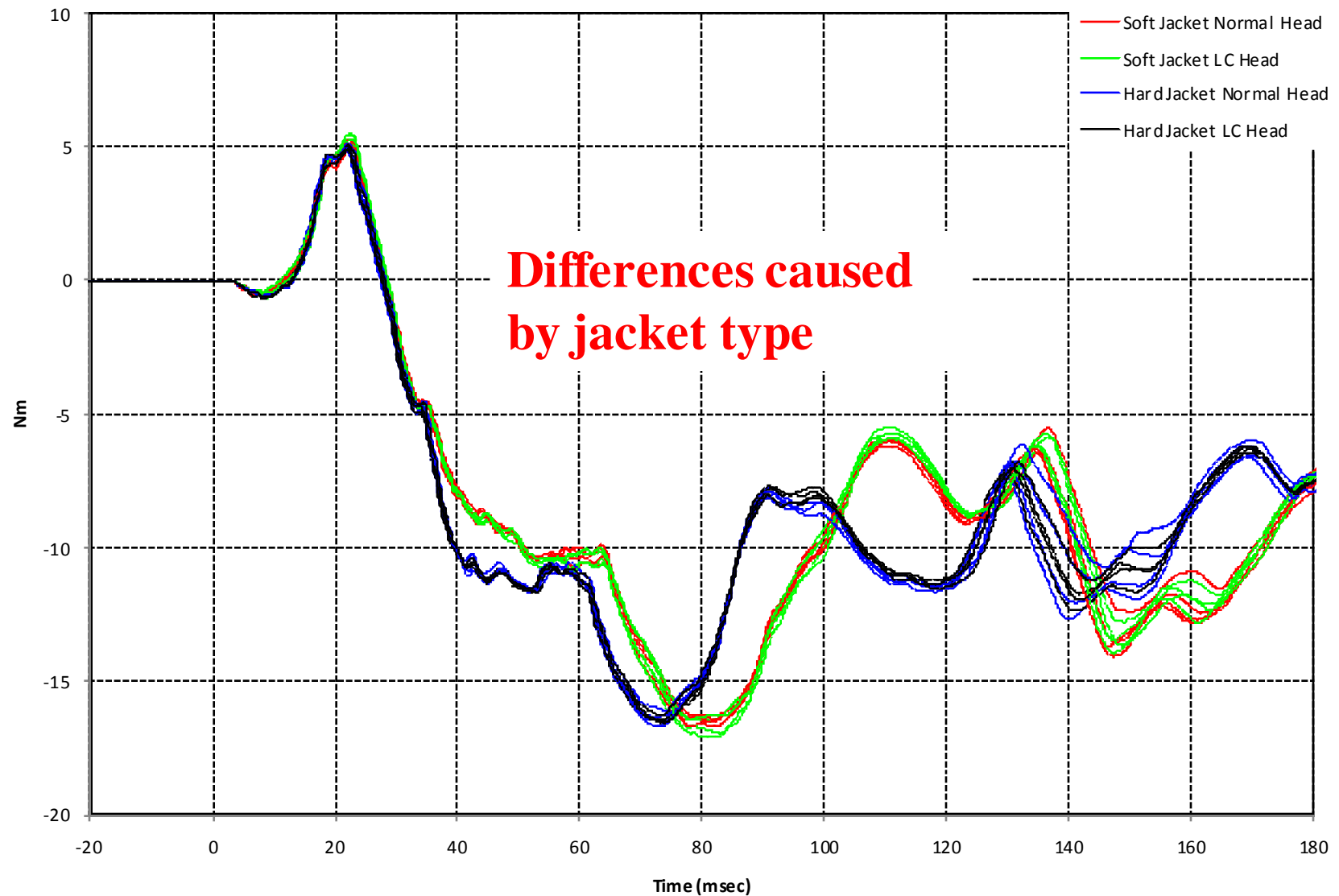
Lower Neck Force FZ



Jacket – Head DOE

Dummy Certification

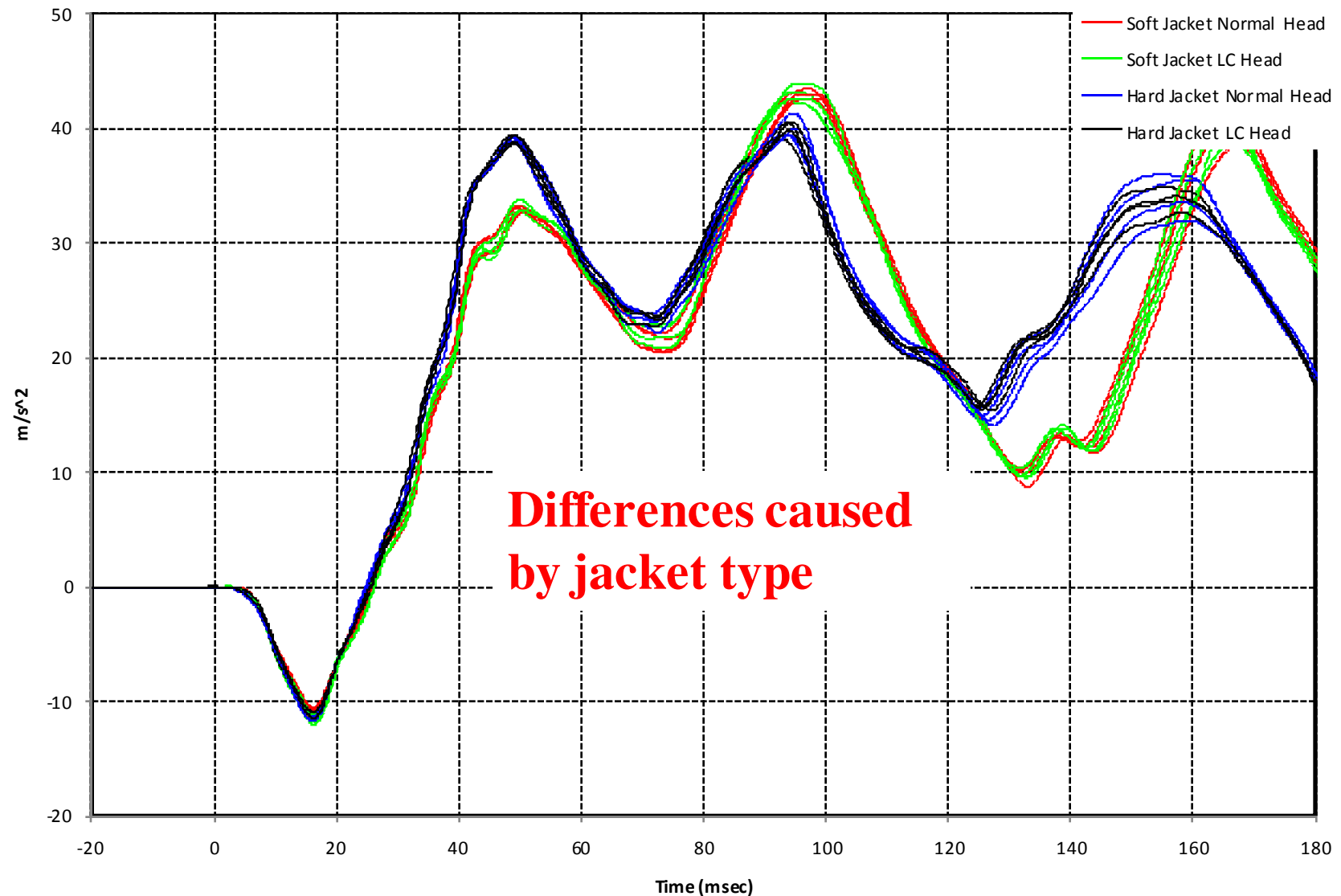
Lower Neck Moment MY



Jacket – Head DOE

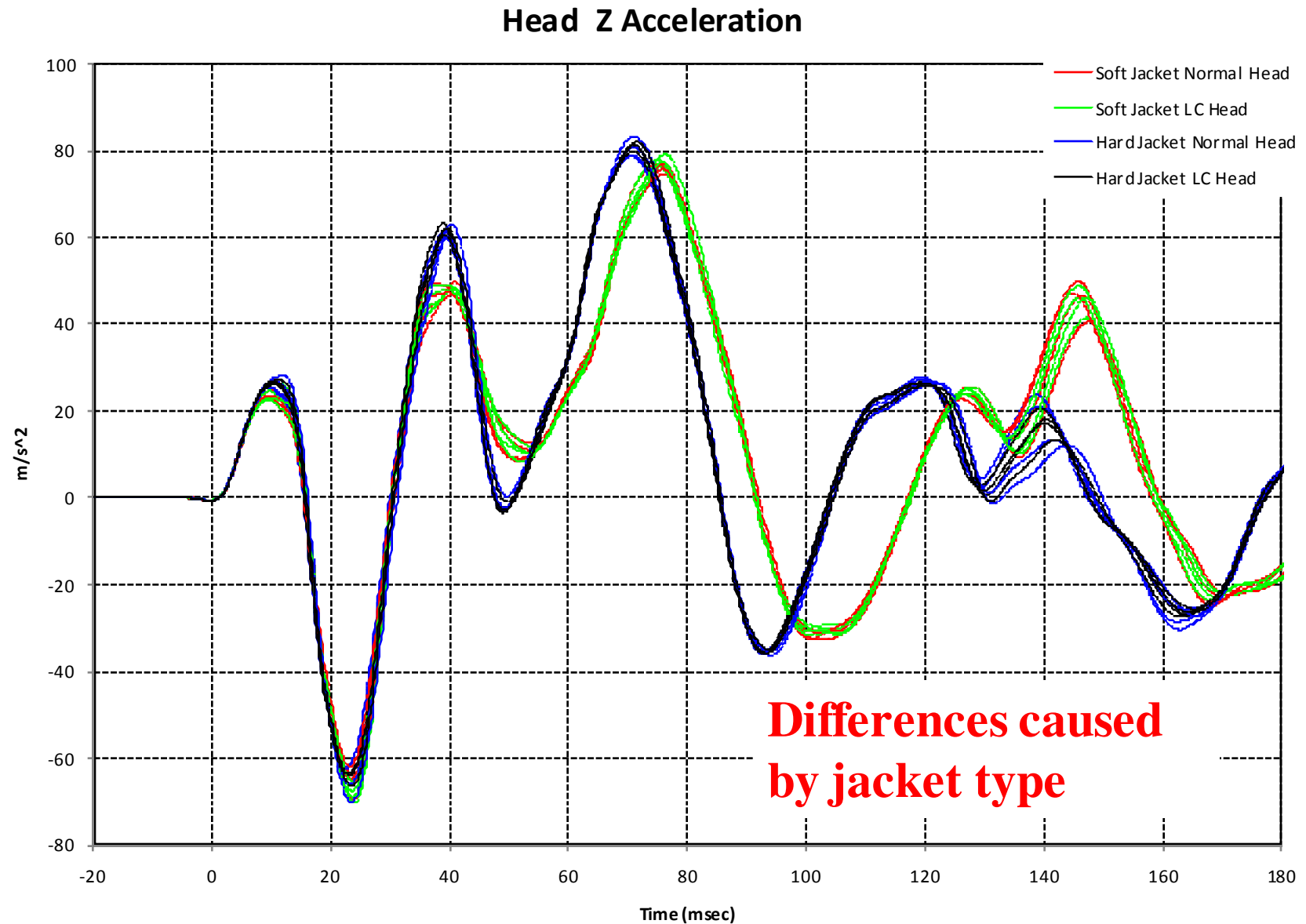
Dummy Certification

Head X Acceleration



Jacket – Head DOE

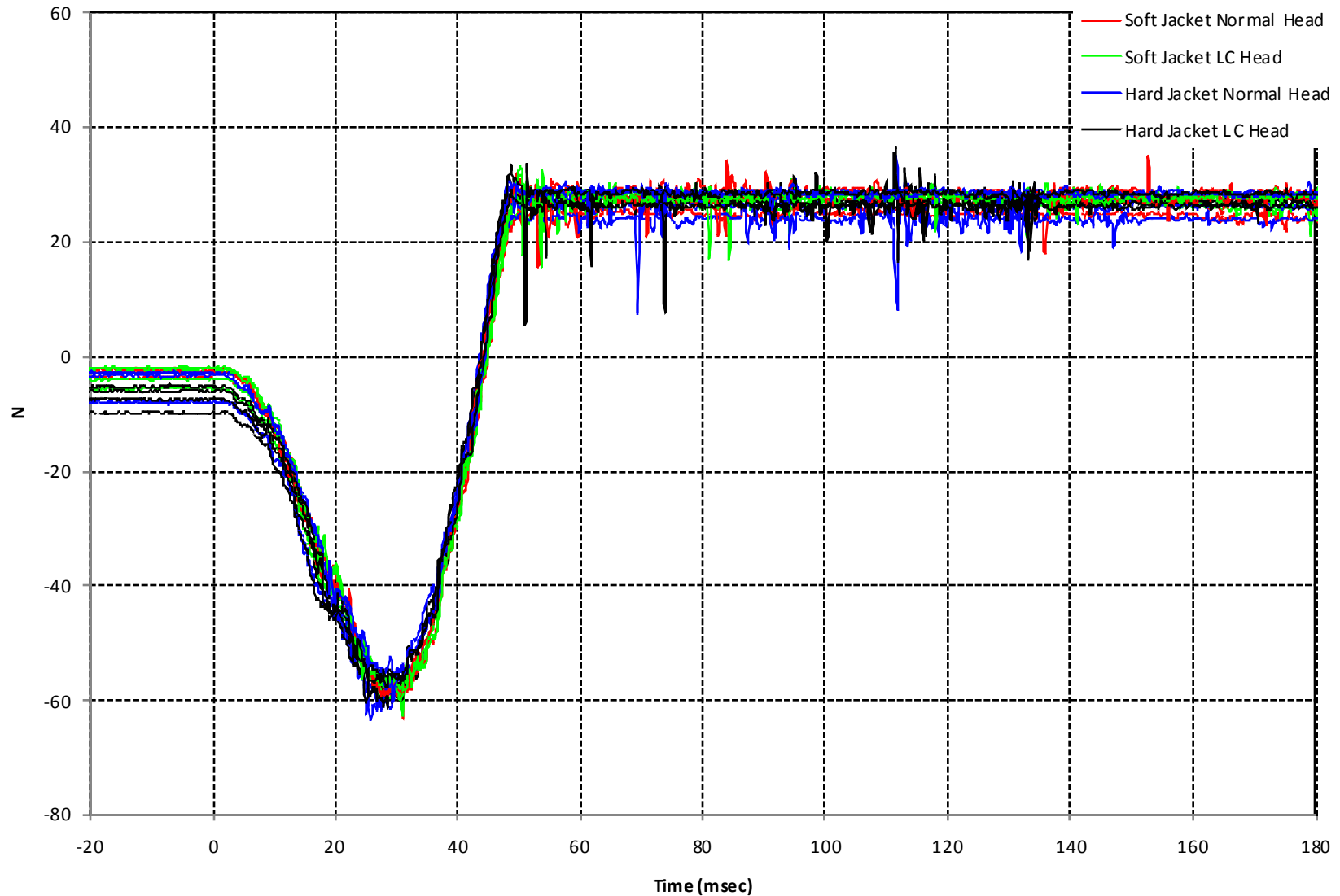
Dummy Certification



Jacket – Head DOE

Dummy Certification

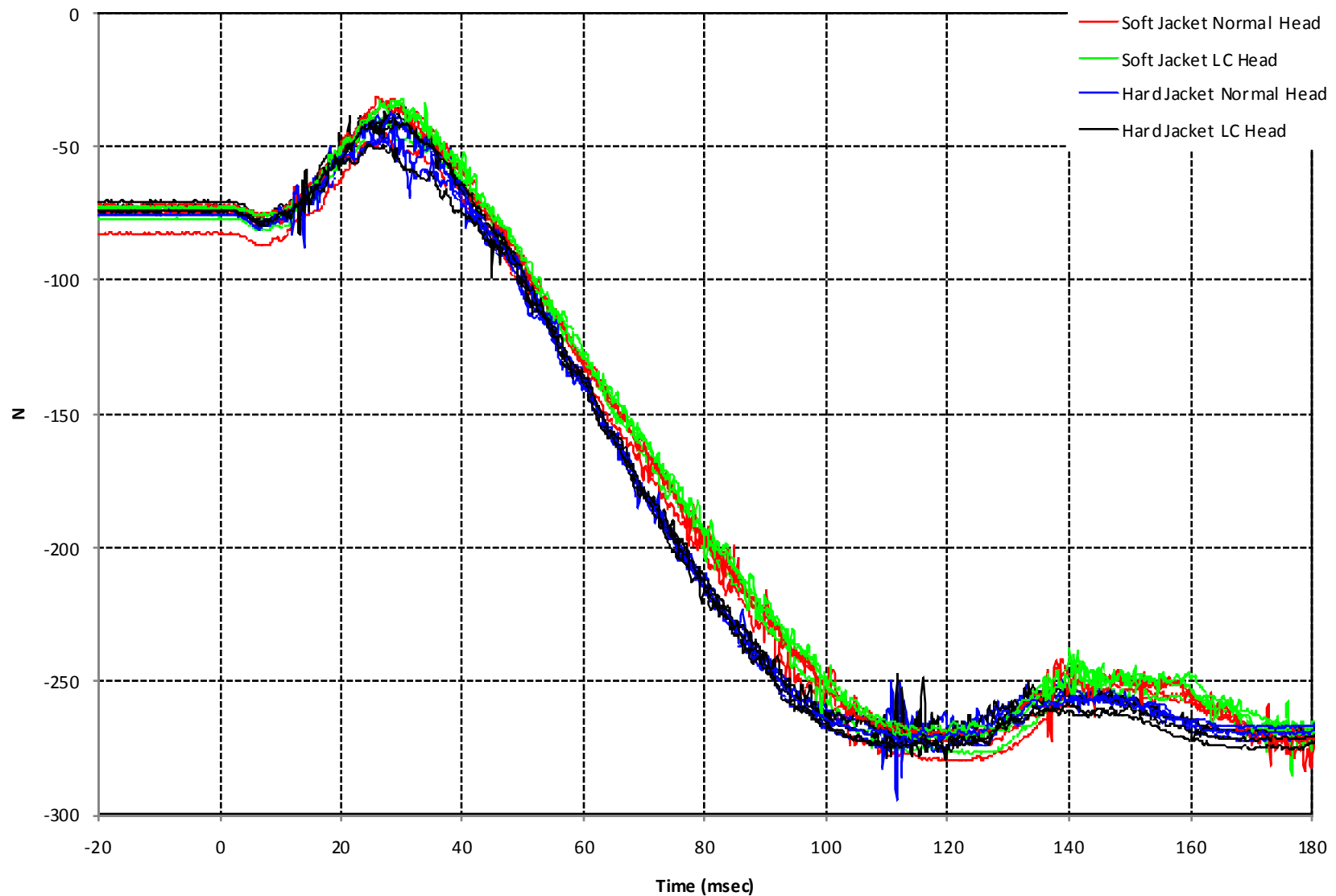
Anterior Muscle Tension (Long Tube)



Jacket – Head DOE

Dummy Certification

Posterior Muscle Tension (Short Tube)



Jacket – Head DOE

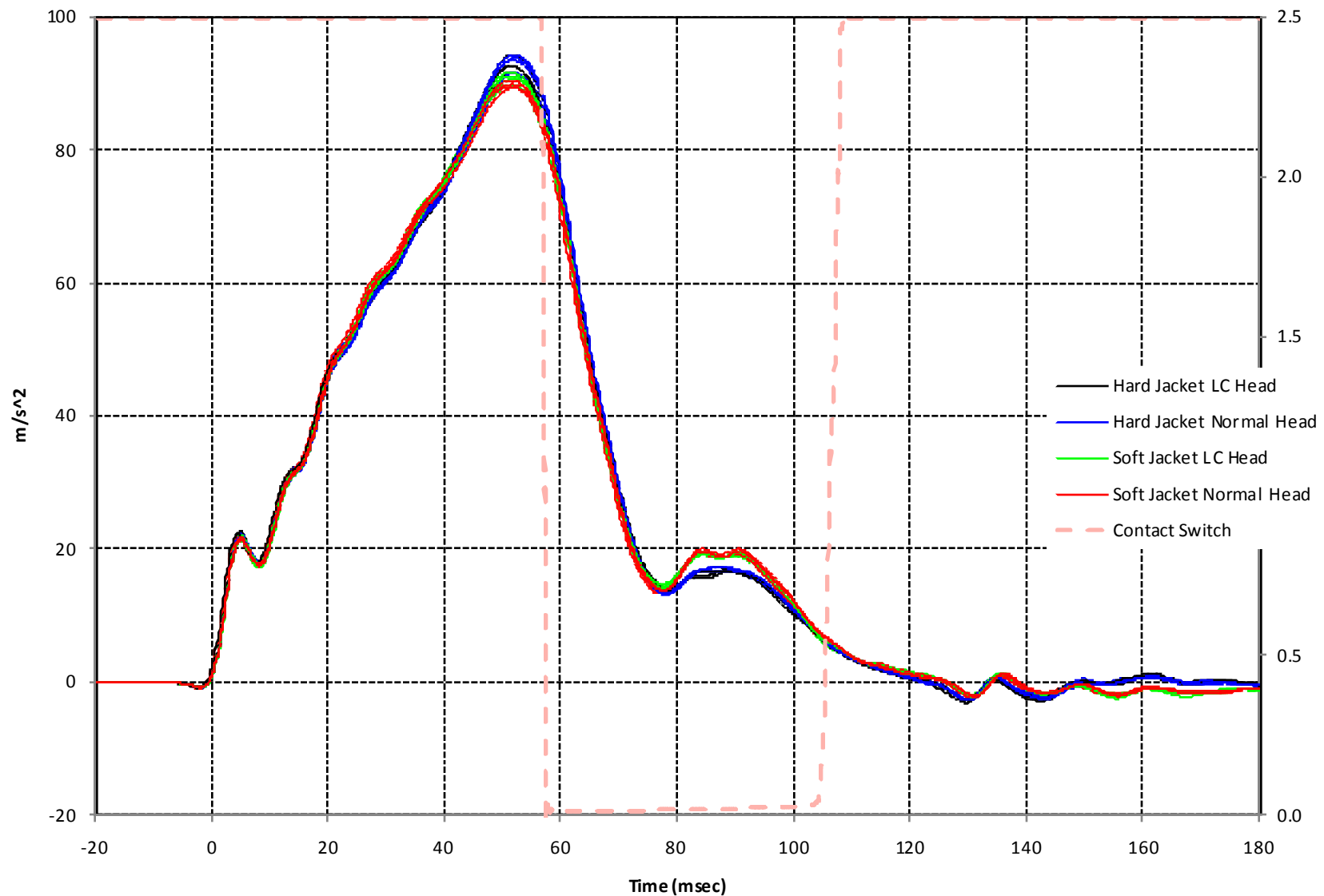
Dummy Certification

- Conclusion from Dummy Certification
 - Jacket type variable
 - Jacket made distinct curve and amplitude differences in many test parameters.
 - Tight controls on manufacturing of jackets is needed.
 - Head type variable
 - Head type didn't make any noticeable difference
- Need to determine if jackets and heads cause differences in sled testing.

Jacket – Head DOE

Headrest

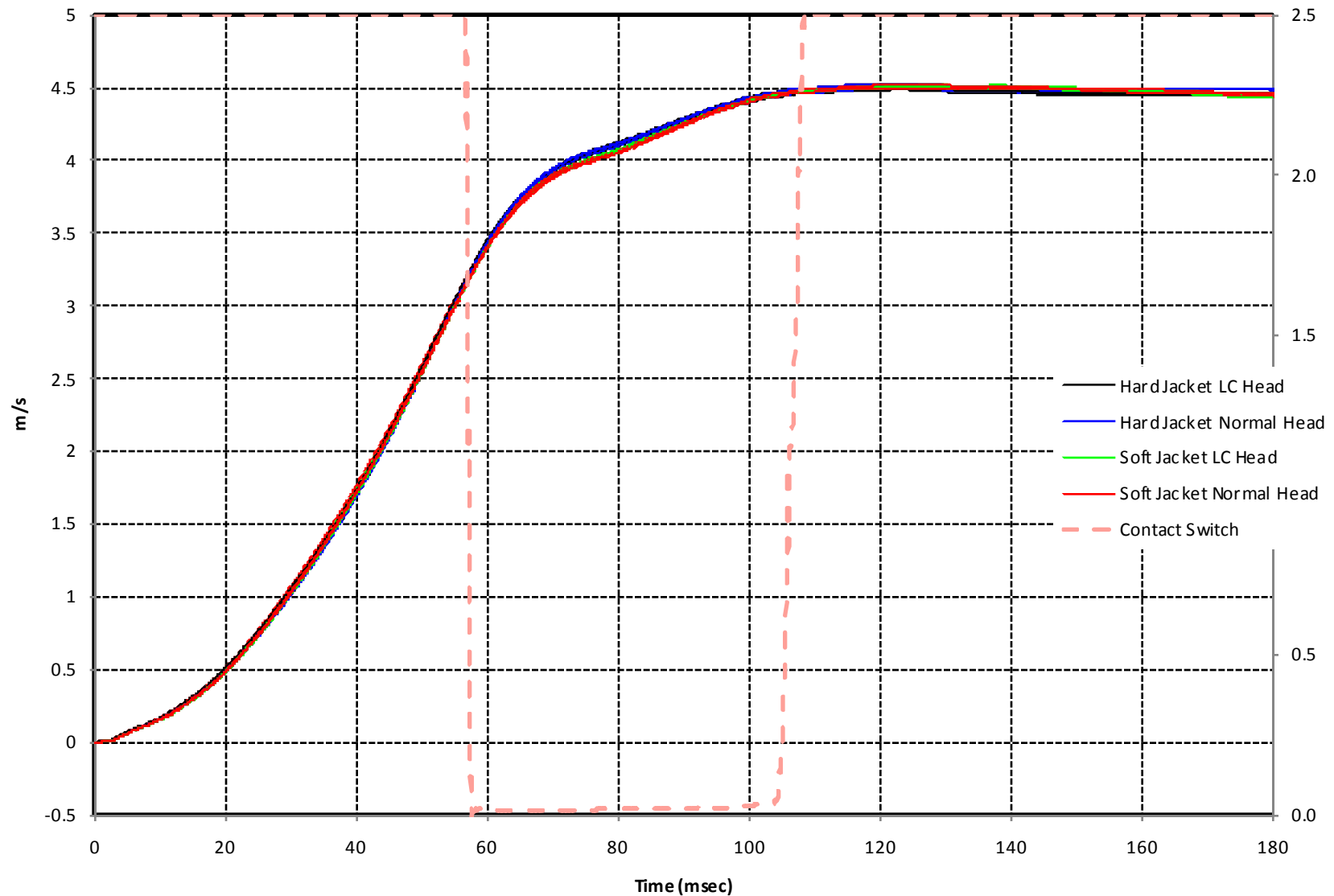
Sled Acceleration



Jacket – Head DOE

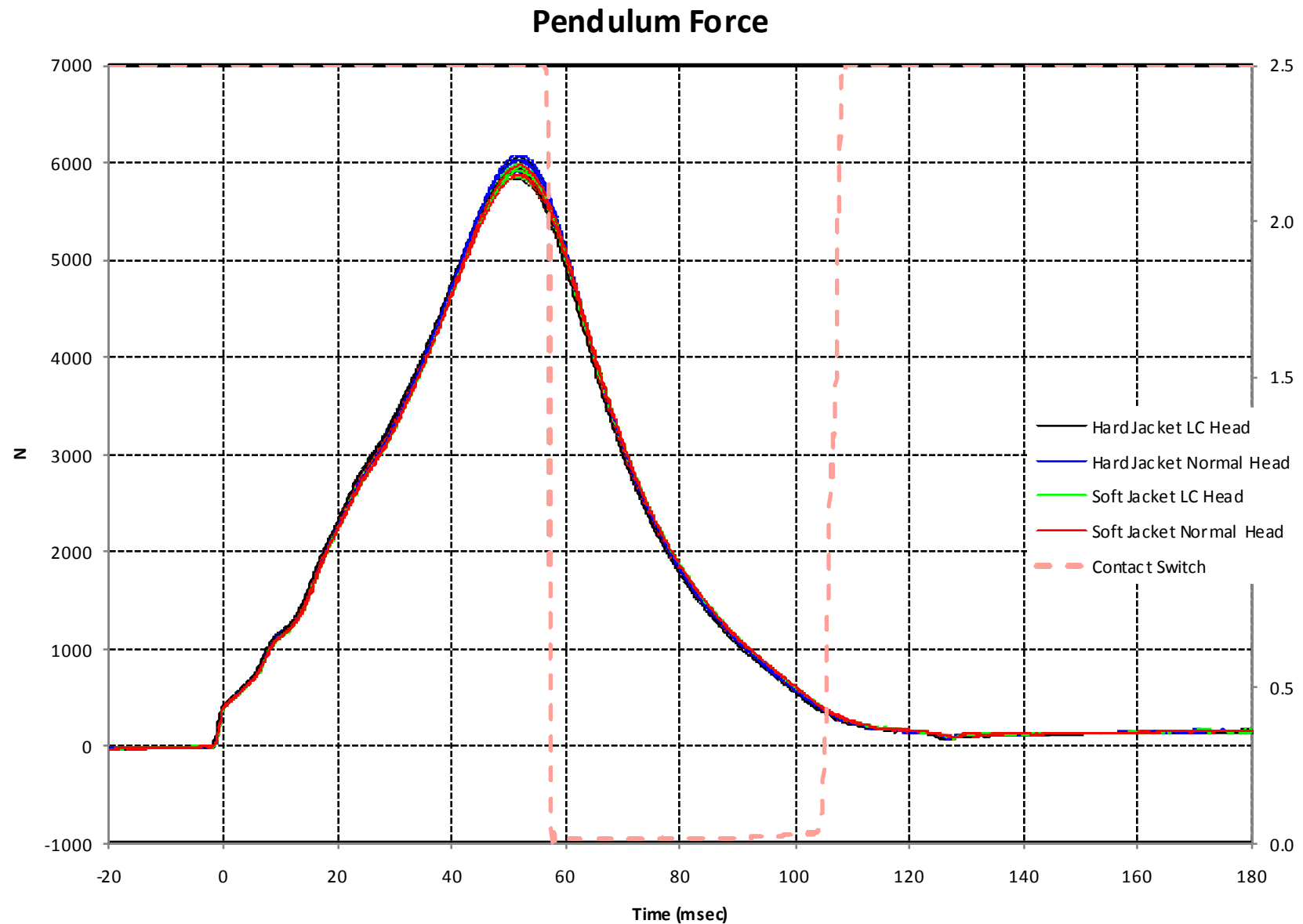
Headrest

Sled Velocity



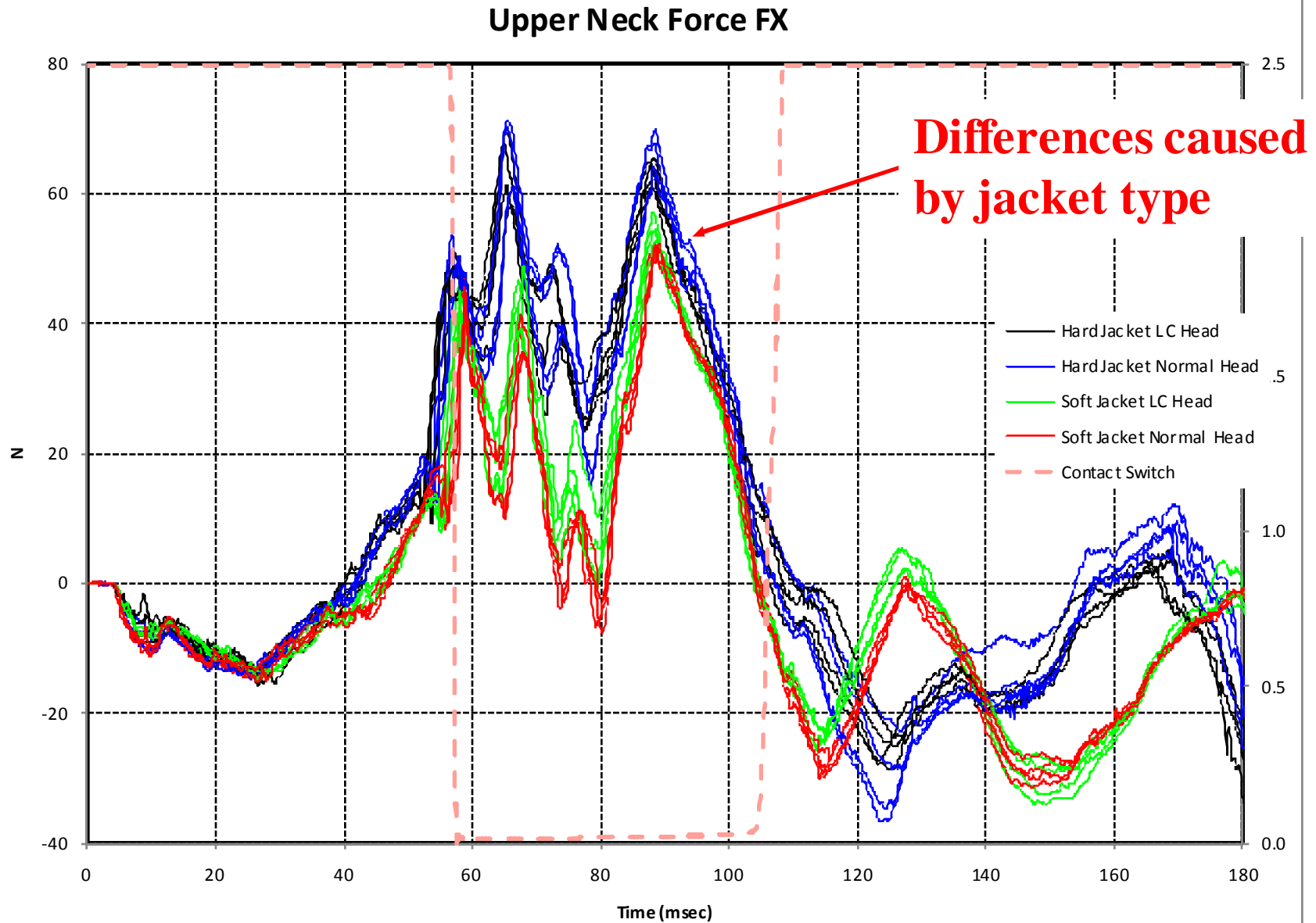
Jacket – Head DOE

Headrest



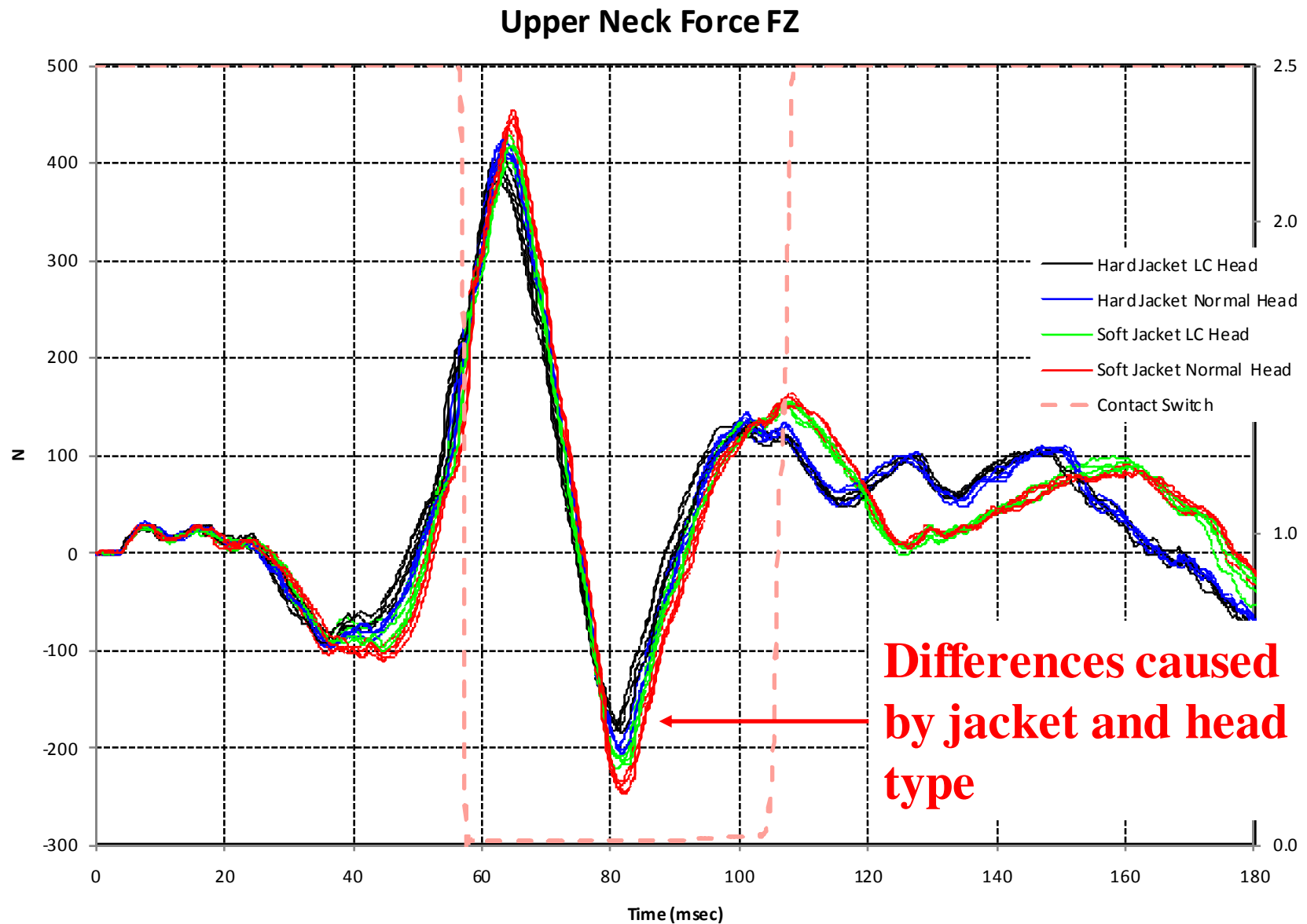
Jacket – Head DOE

Headrest



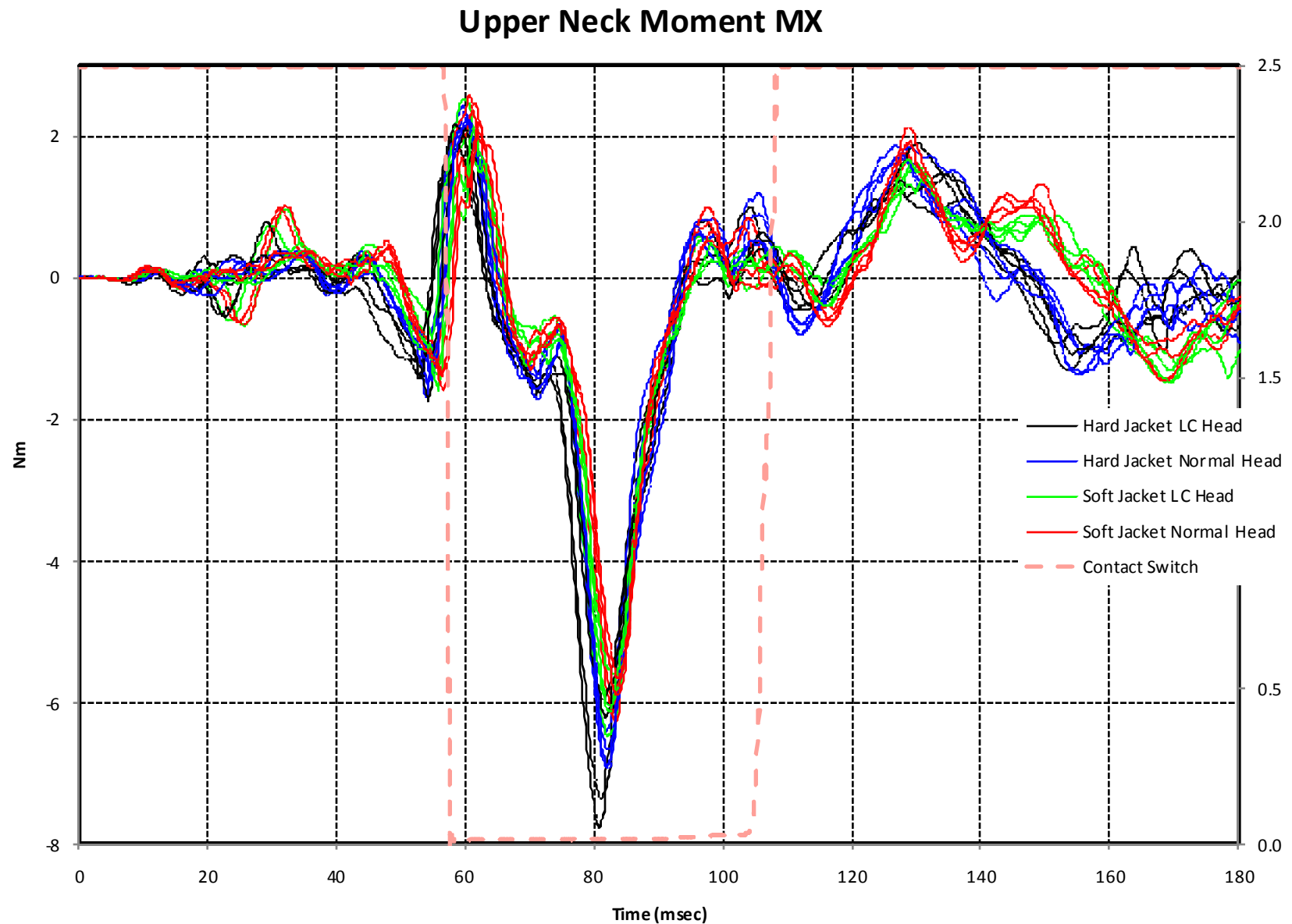
Jacket – Head DOE

Headrest



Jacket – Head DOE

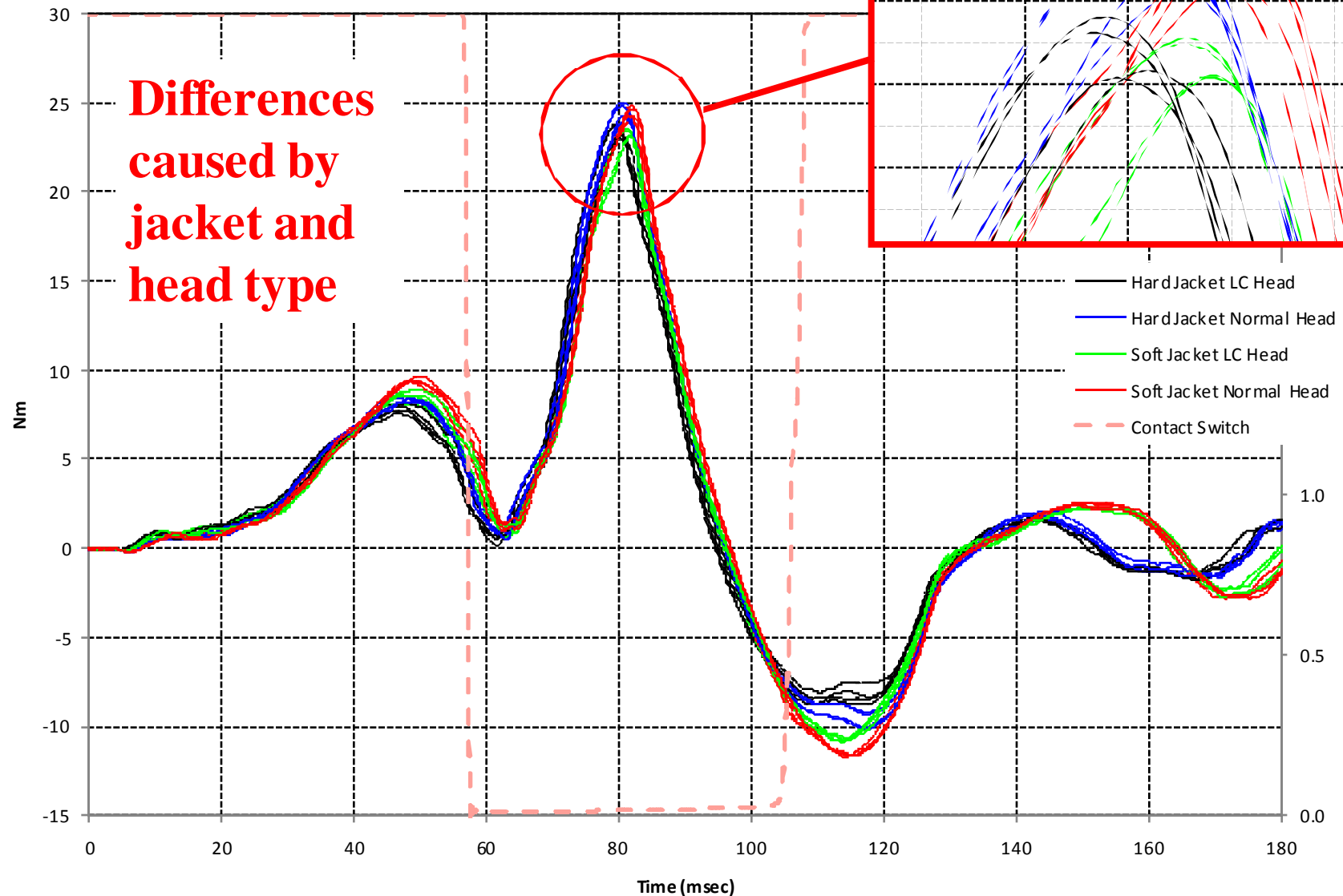
Headrest



Jacket – Head DOE

Headrest

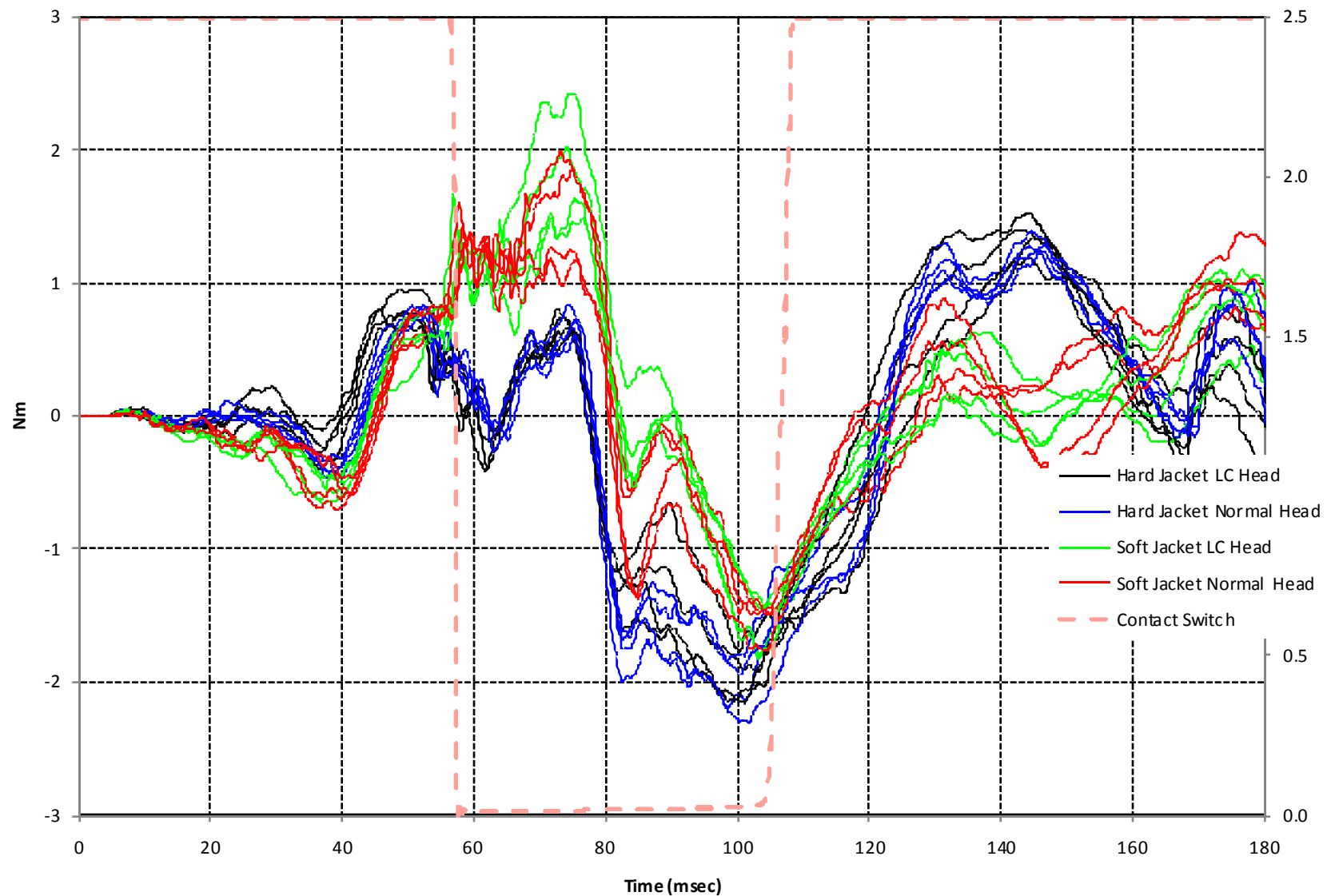
Upper Neck Moment MY



Jacket – Head DOE

Headrest

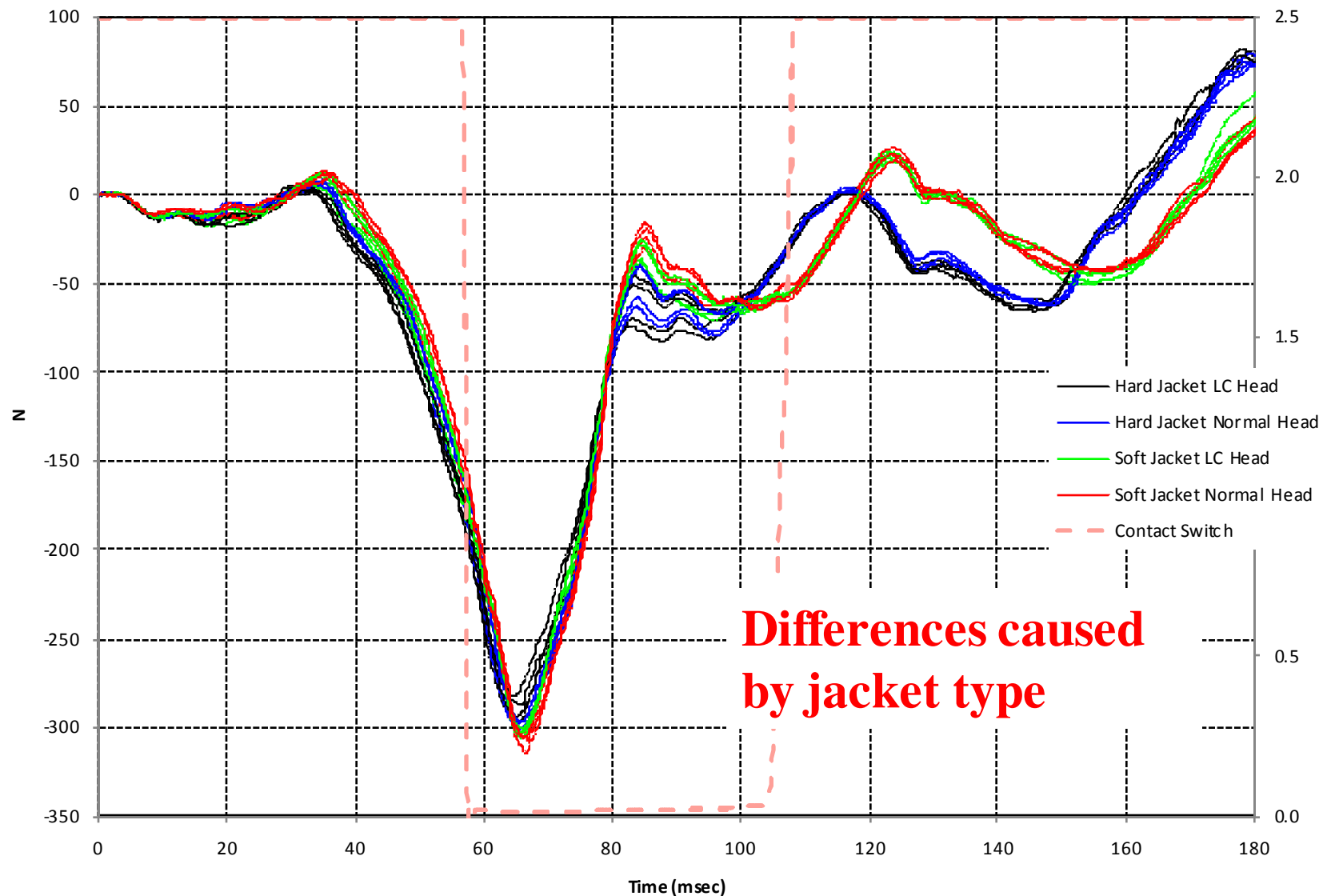
Upper Neck Moment MZ



Jacket – Head DOE

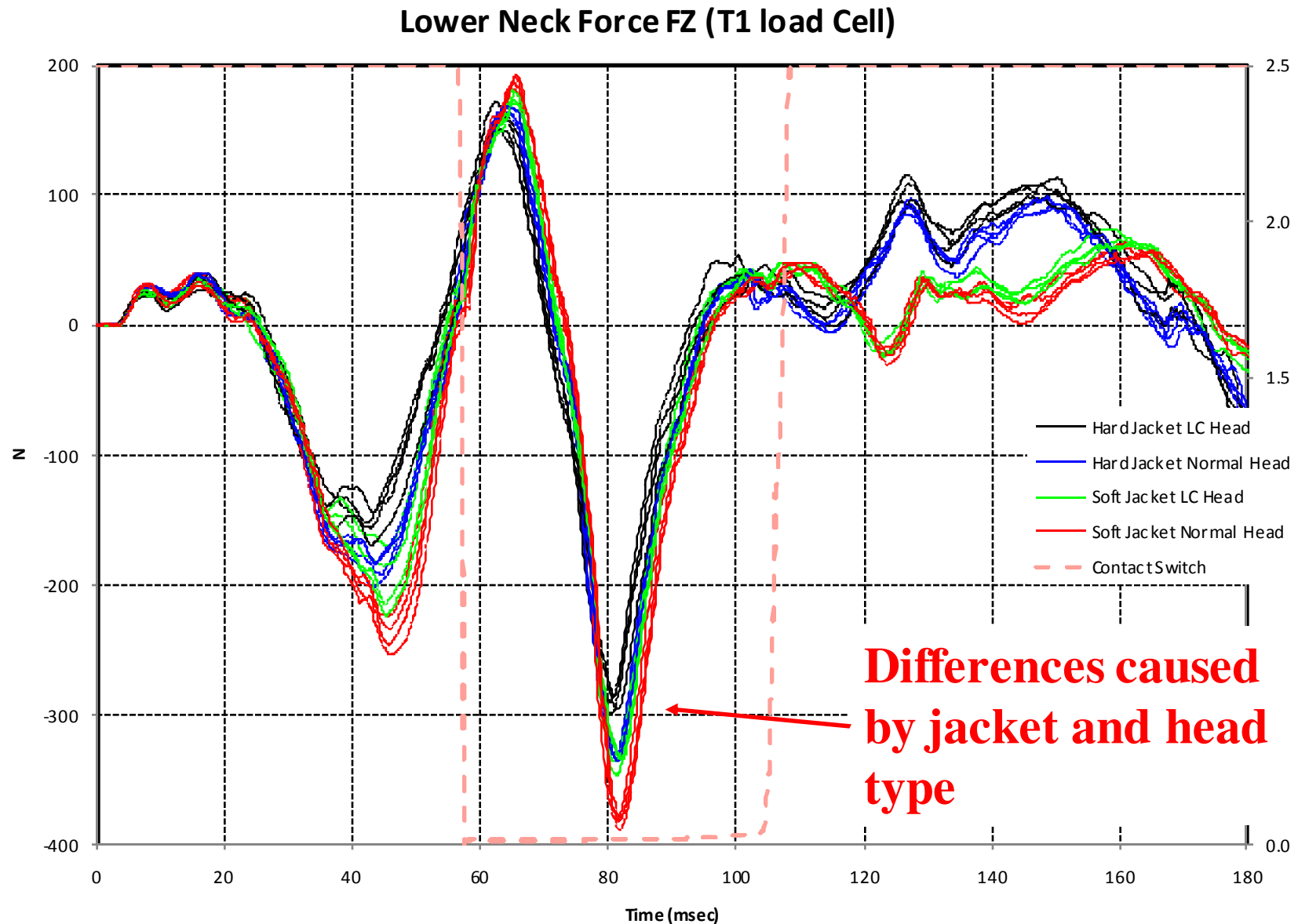
Headrest

Lower Neck Force FX (T1 load Cell)



Jacket – Head DOE

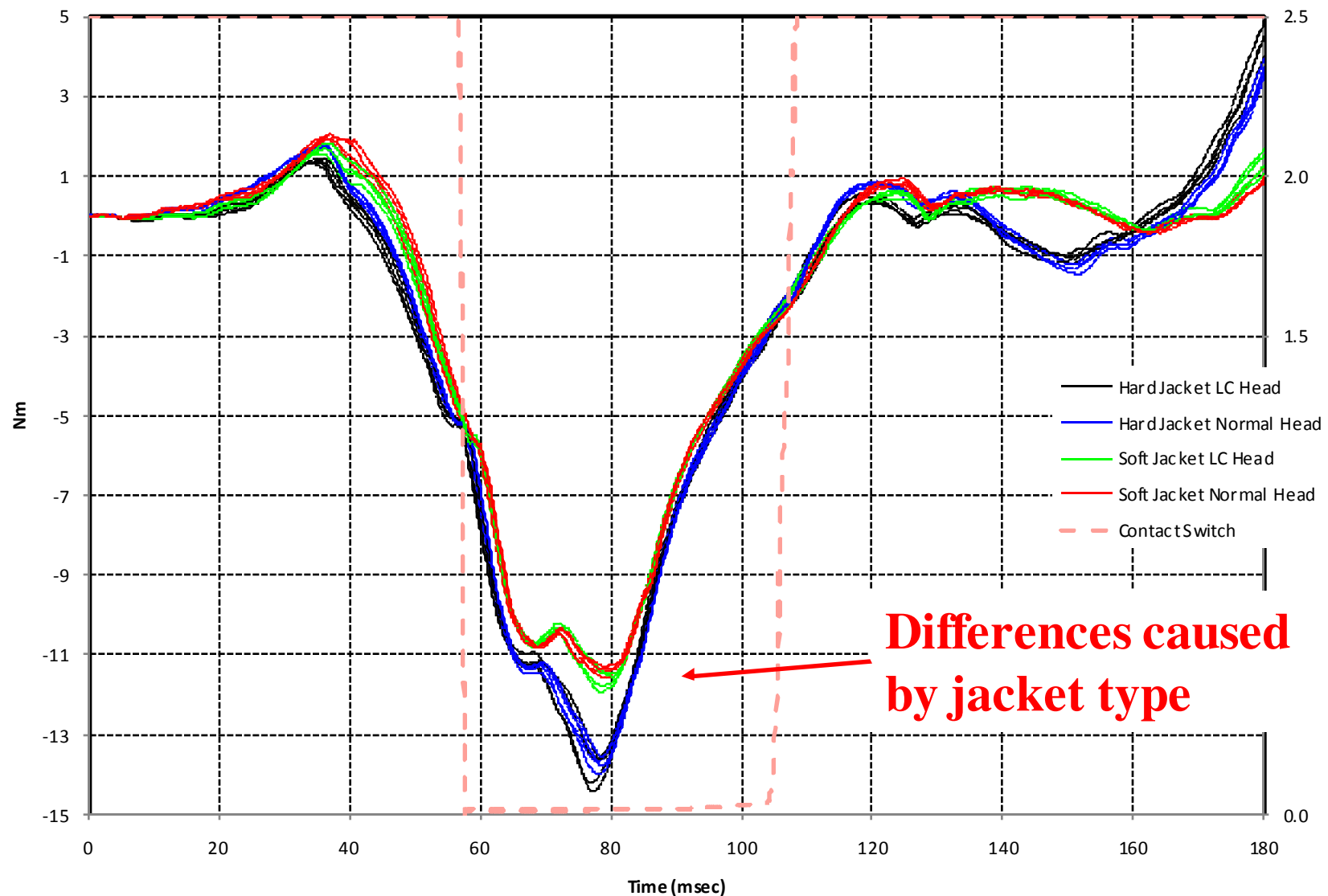
Headrest



Jacket – Head DOE

Headrest

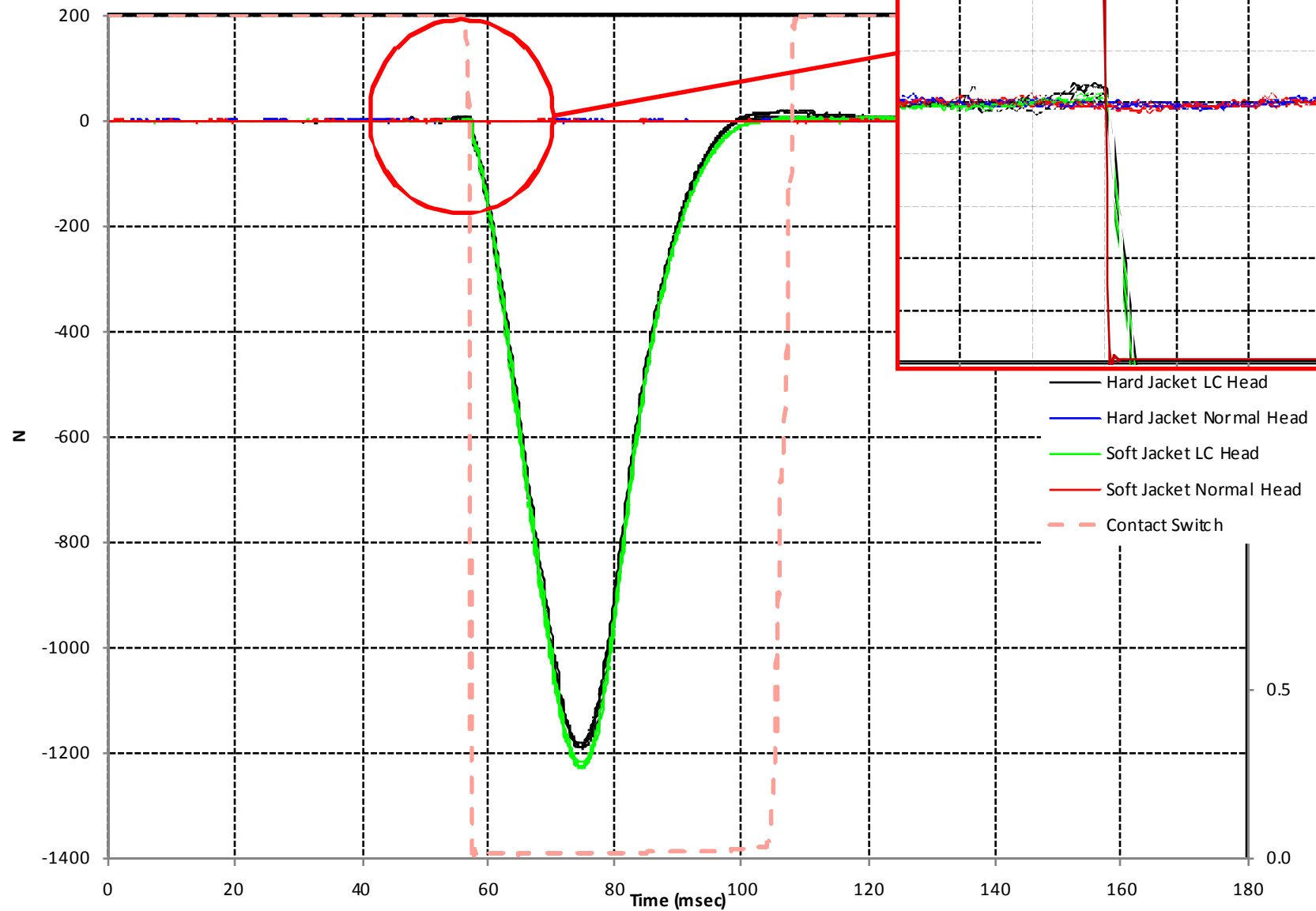
Lower Neck Moment MY (T1 Load Cell)



Jacket – Head DOE

Headrest

Skull Cap FX



Jacket – Head DOE

Headrest

Skull Cap FY

**Differences caused
by jacket type**

