UMTRI dynamic test procedure
Target

- Effect of UMTRI test installation methods on Booster seats in regulation 129 environment
UMTRI Test Method

- 15 N loads are applied in lap and diagonal belts instead of 50 N.

- A spacer is positionned in the back of the dummy:
Tests Conditions

• Tests realized with Q3, Q6 and Q10 with a R44 booster CRS

• Prototype Hip liners are used in the dummies

• Abdominal sensors are implemented in drilled Q dummies abdomen
Results

Chest Acceleration (g)

Q3

Q6

Q10

R129

UMTRI procedure
Results

Head Acceleration (g)
Results

Abdominal Pressure (bar)

Left

Right

Q3 | Q6 | Q10

R129 | UMTRI procedure

Q3 | Q6 | Q10

R129 | UMTRI procedure
Conclusion

• With the CRS tested, UMTRI procedure provokes important increase of Head acceleration for Q6 and Q10 (+ 15 g).

• No important change for others criteria
Care for Precious Life
You can change this grey field into another picture