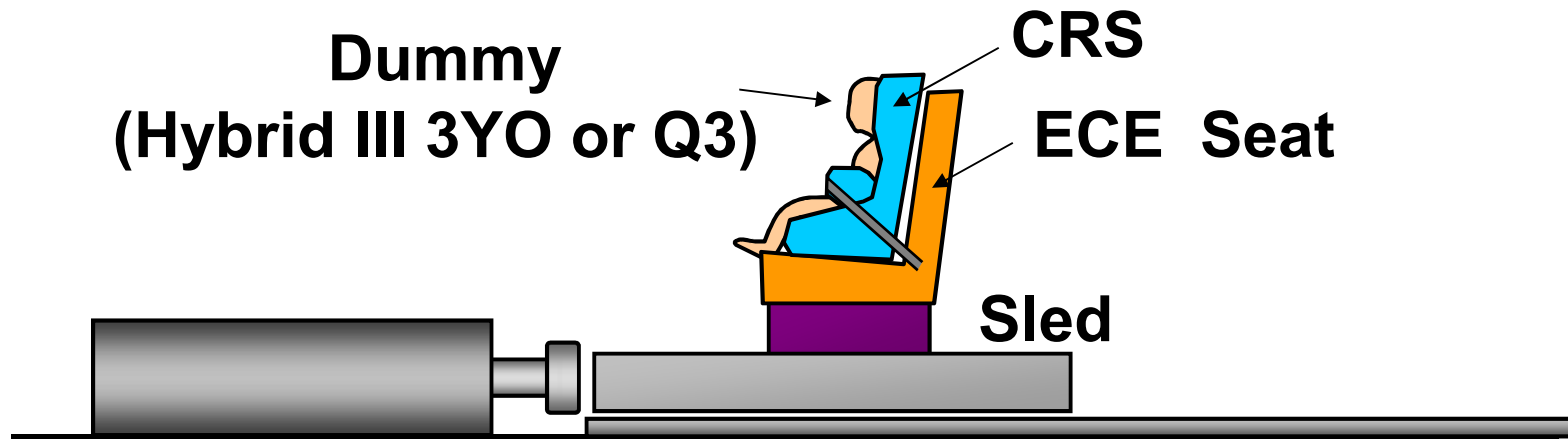


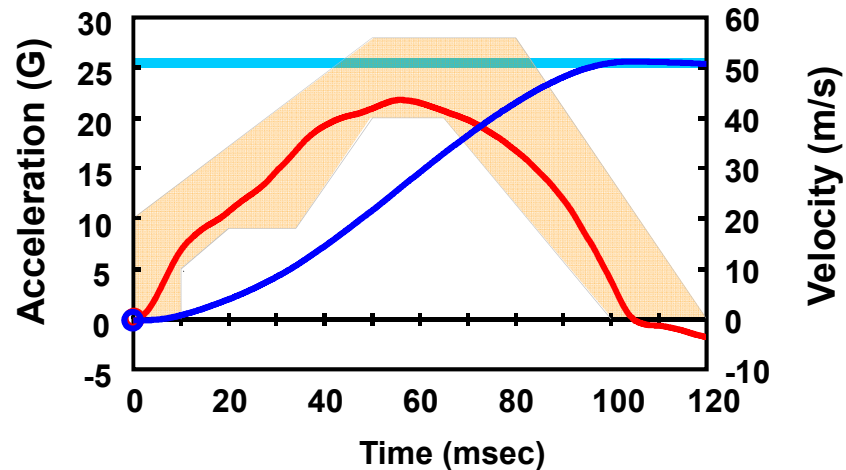
Comparison of the R44 Test Data using ISOFIX Booster / Seatbelt Booster

JASIC

Test Procedure



Sled Acceleration, Velocity(ECE R44)



Sled Test System



CRS

CRS A without ISOFIX



CRS A with ISOFIX



Dummy

Hybrid III
3YO

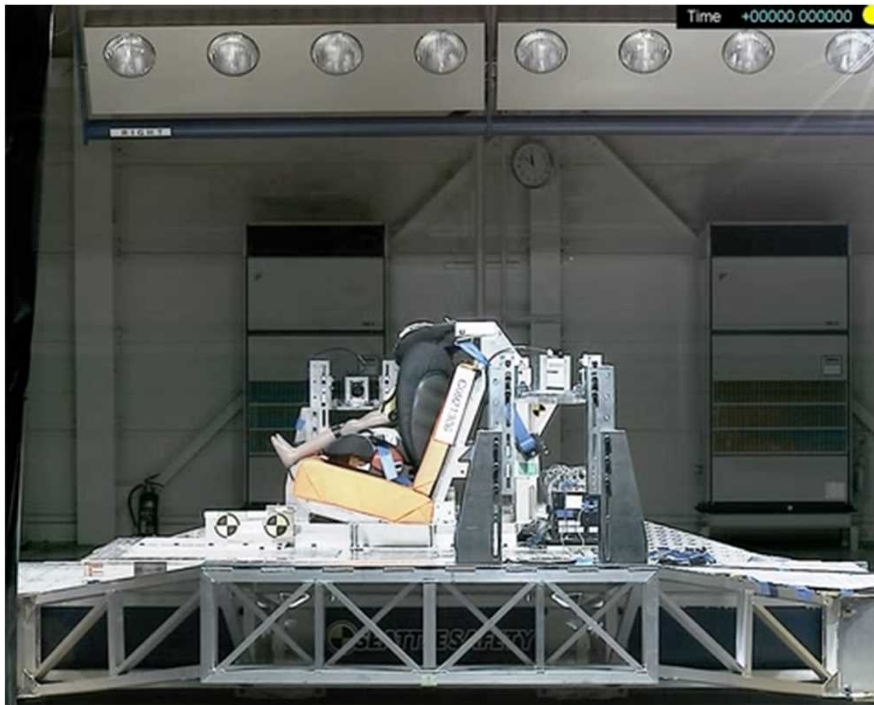


Q3

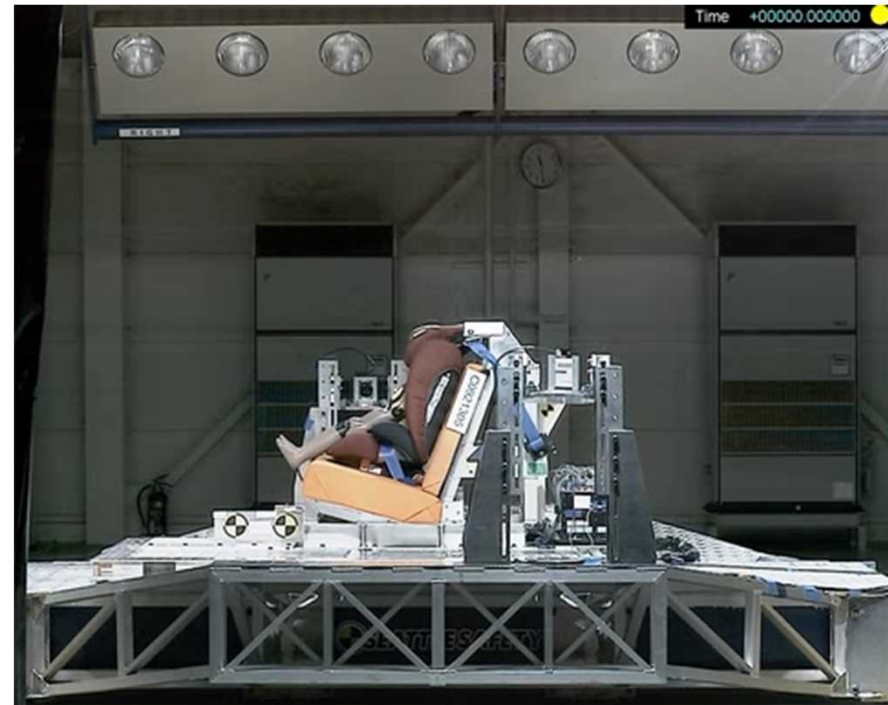


Test Video

Without ISOFIX



With ISOFIX(ISOFIT)



Test Video

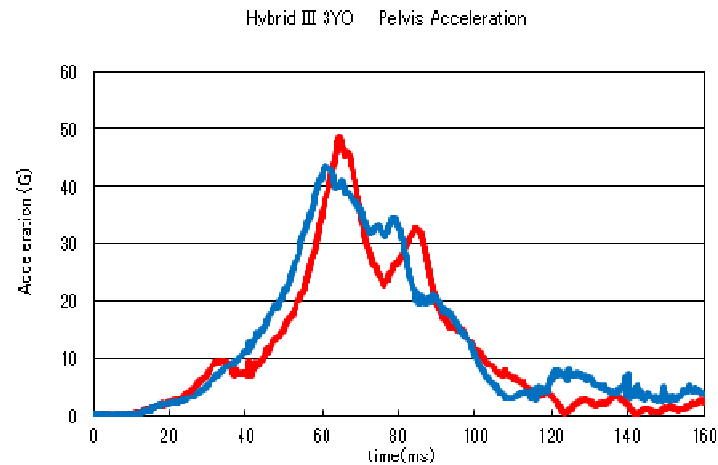
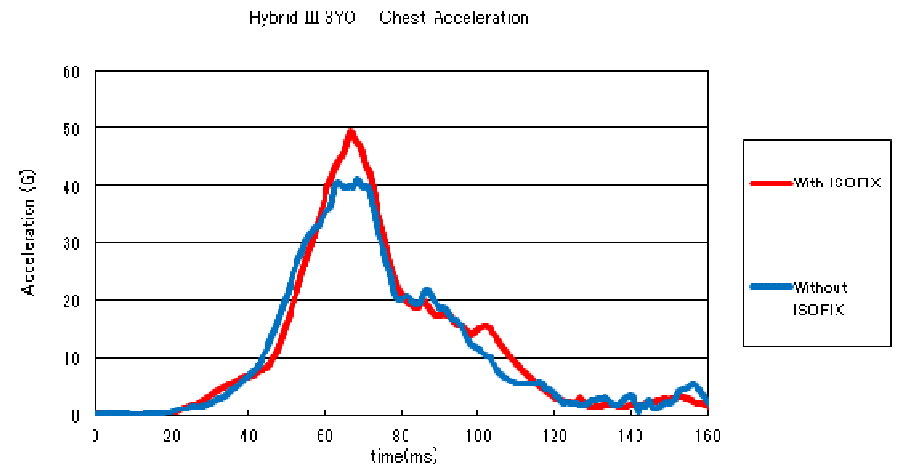
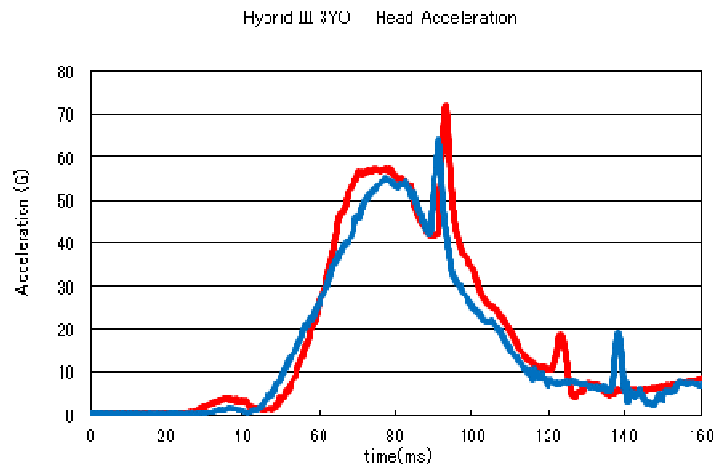
Without ISOFIX



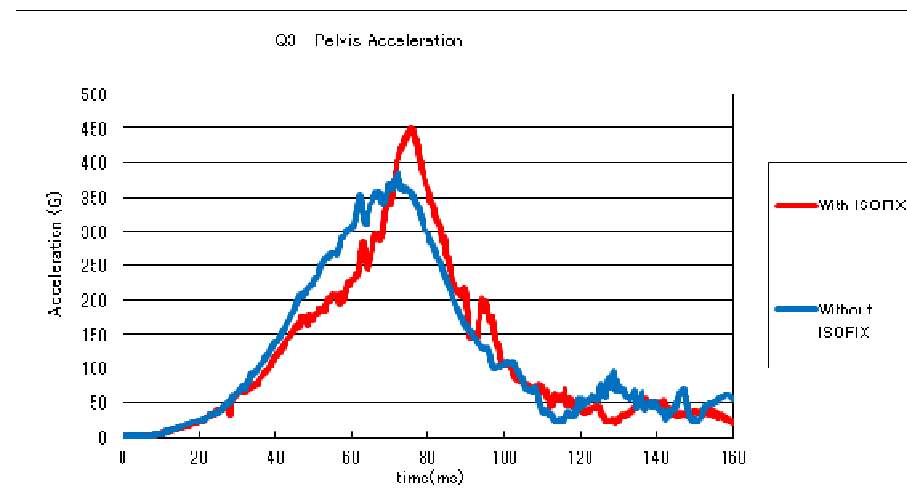
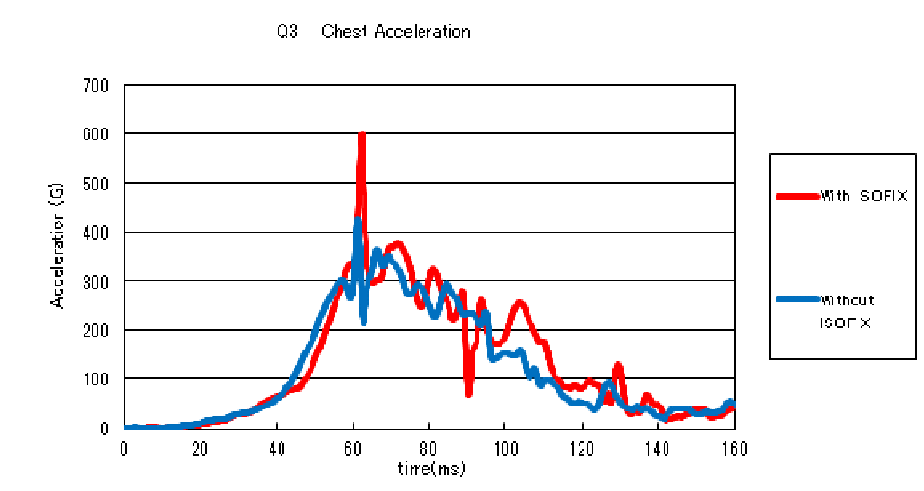
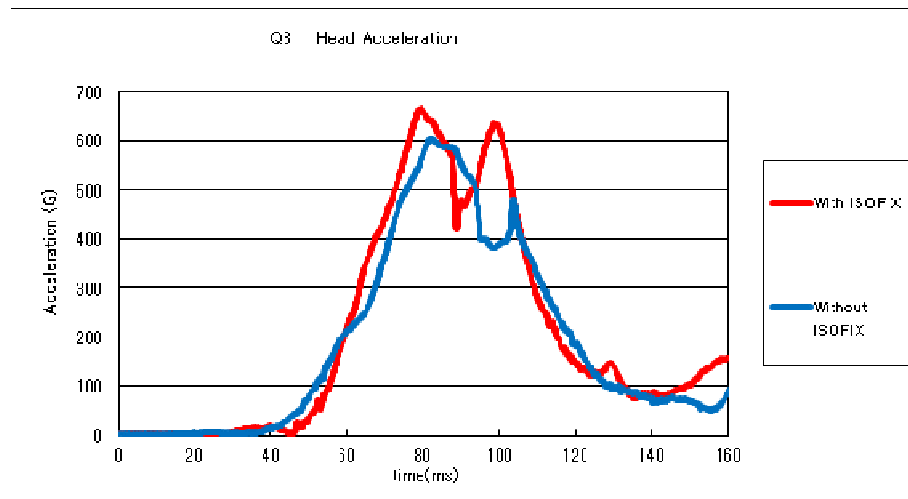
With ISOFIX(ISOFIT)



Hybrid III 3YO Acceleration Time Histories



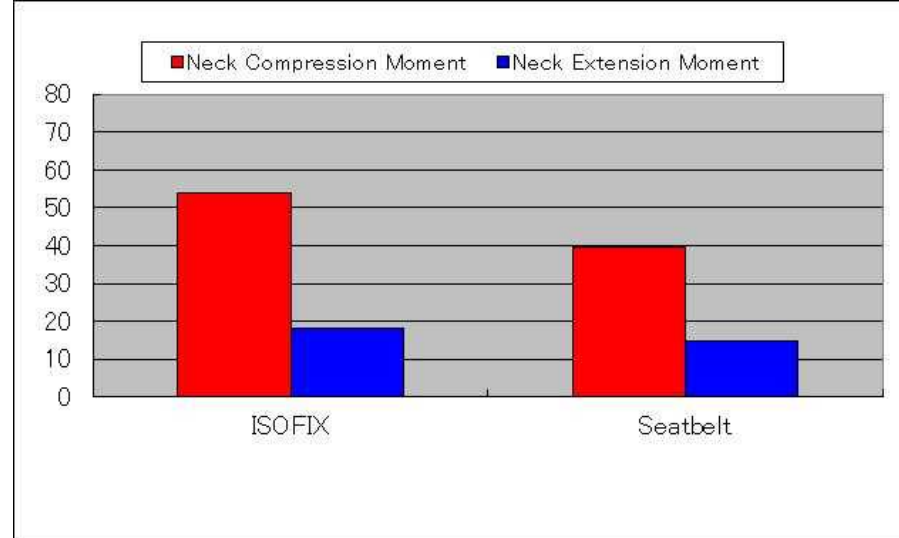
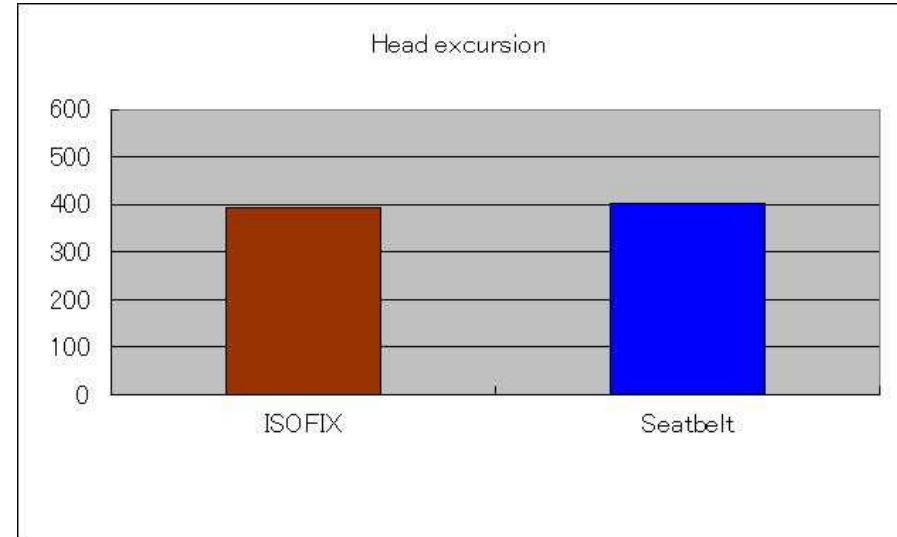
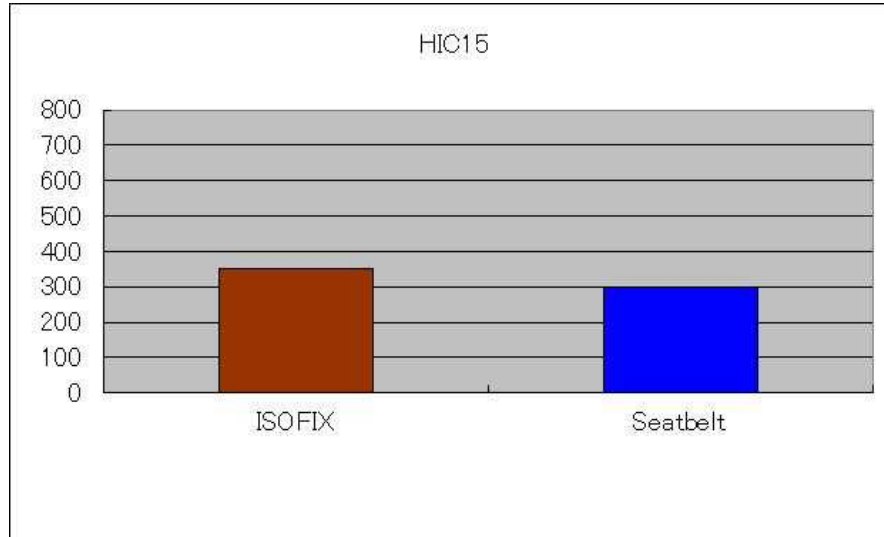
Q3 Acceleration Time Histories



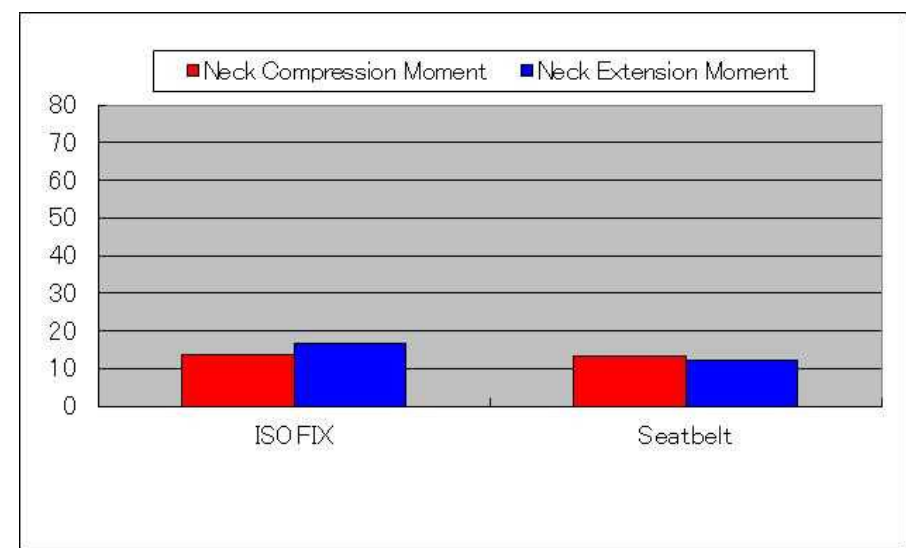
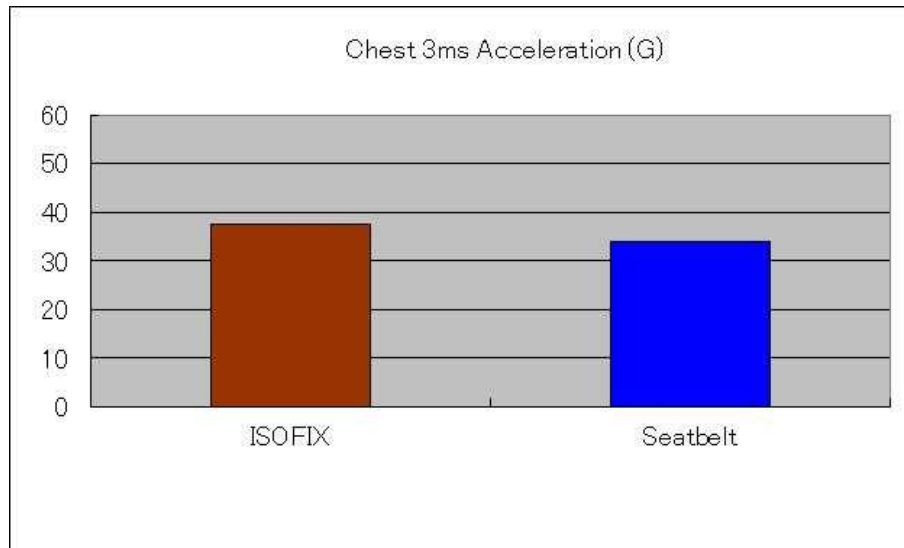
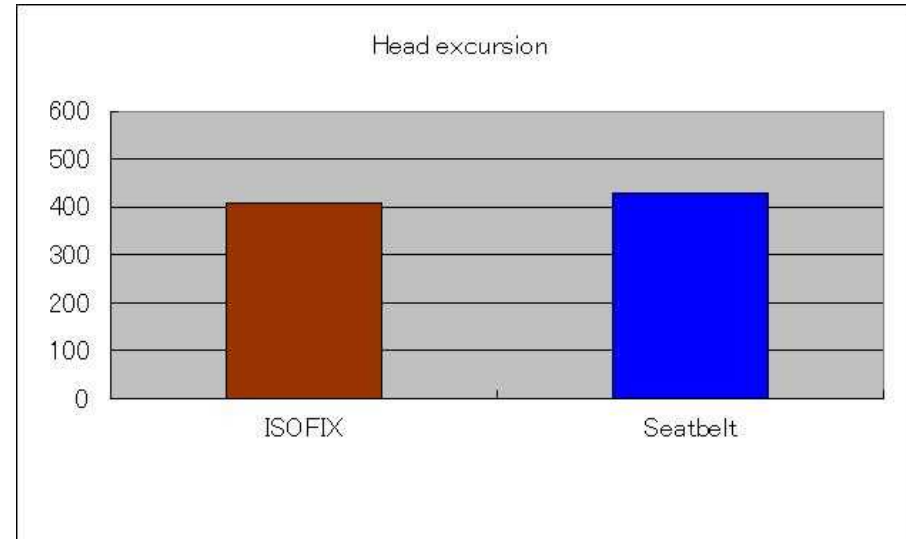
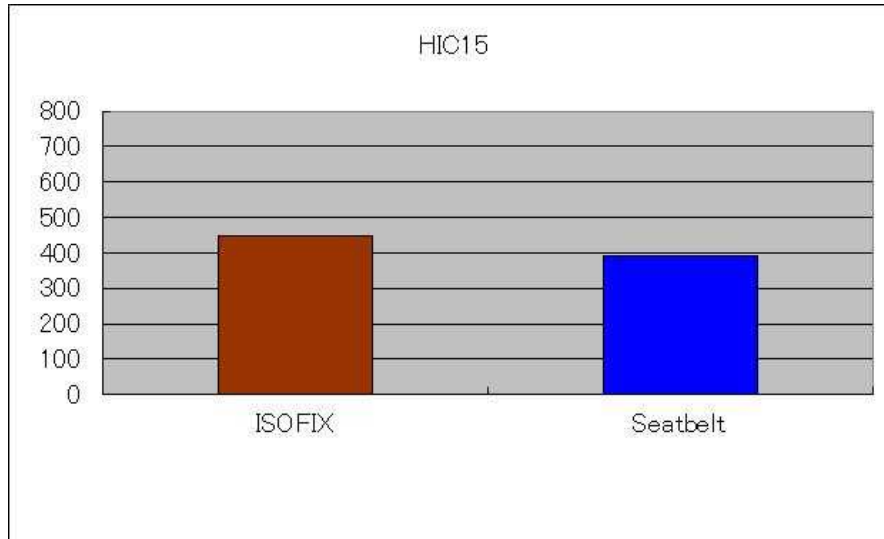
Injury Measures

Dummy	Hybrid III 3YO		Q3	
	with ISOFIX	Seatbelt	with ISOFIX	Seatbelt
HIC15	349.6	297.5	448.9	389.5
HIC36	653.2	512.6	871.6	639.1
Head 3ms Acceleration	56.6	53.8	65.7	60.3
Chest 3ms Acceleration	47.3	39.6	37.5	34.0
Chest Diflection	35.4	35.5	38.0	32.2
Nij (Ntf)	0.66	0.96	0.86	1.04
Nij (Nte)	0.63	0.89	0.51	0.92
Nij (Ncf)	0.00	0.00	0.13	0.00
Nij (Nce)	0.21	0.00	0.17	0.00
Neck Fx(front)	991.0	649.2	378.3	299.4
Neck Fx(rear)	4.4	0.3	52.3	1.2
Neck Fz(extension)	1356.6	1252.6	2925.9	1857.7
Neck Fz(Compression)	99.4	51.3	34.8	4.3
Neck My(Front)	53.8	39.7	13.5	13.3
Neck My (Rear)	18.3	14.9	16.7	12.3
Head excursion	393.3	401.5	407.0	429.0

Hybrid III 3YO Injury Measures



Q3 Injury Measures



Conclusion

- **Q3 dummy and Hybrid III 3YO dummy Accelerations were almost similar both ISOFIX and seatbelt.**
- **The maximum injury measures were almost similar both ISOFIX and seatbelt.**