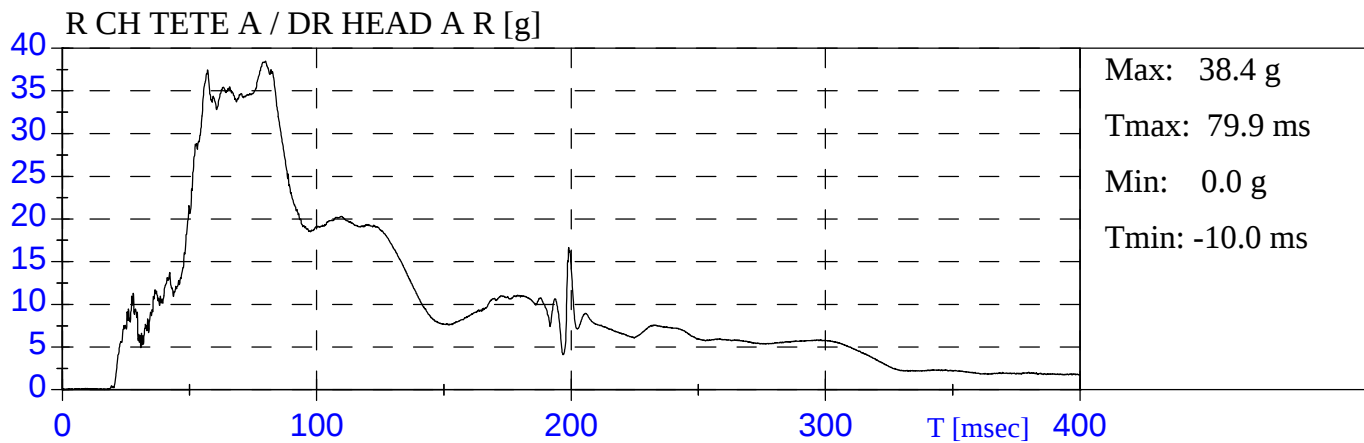
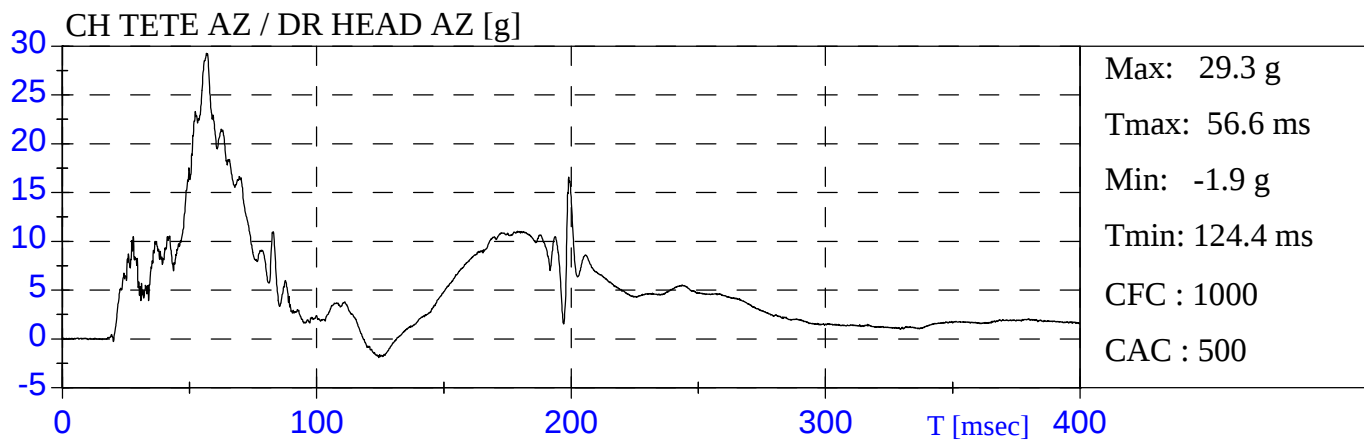
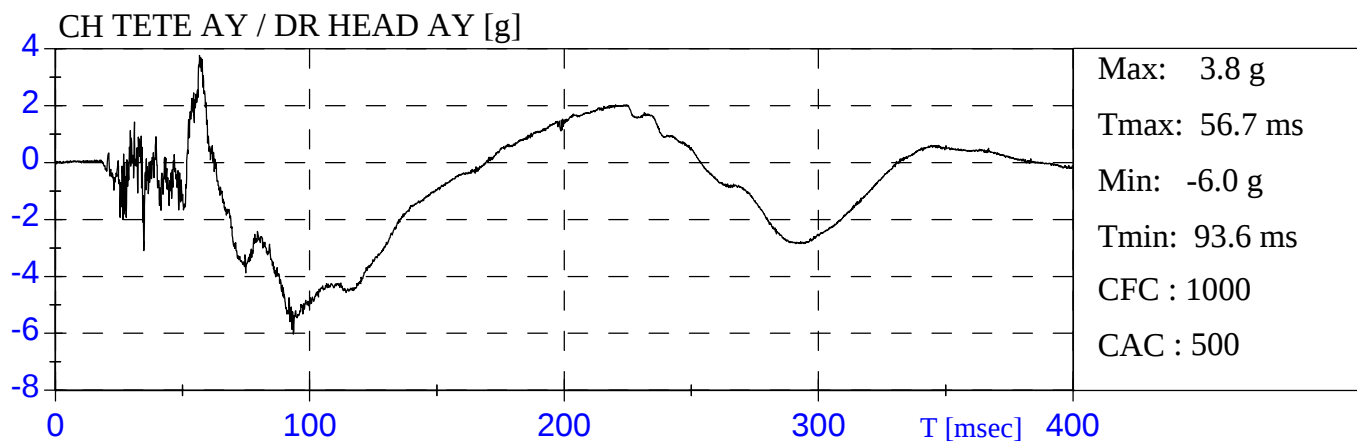
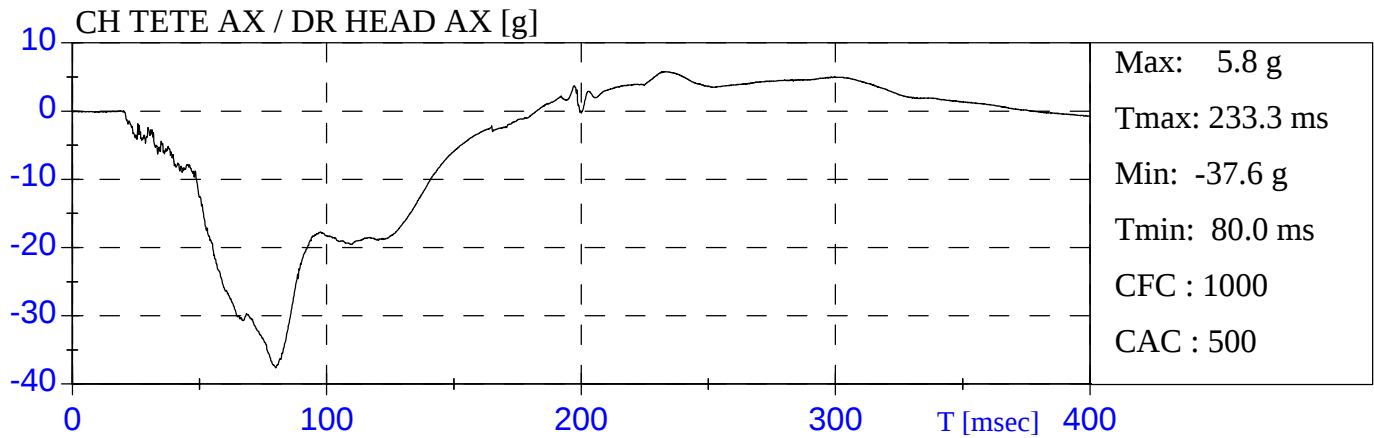
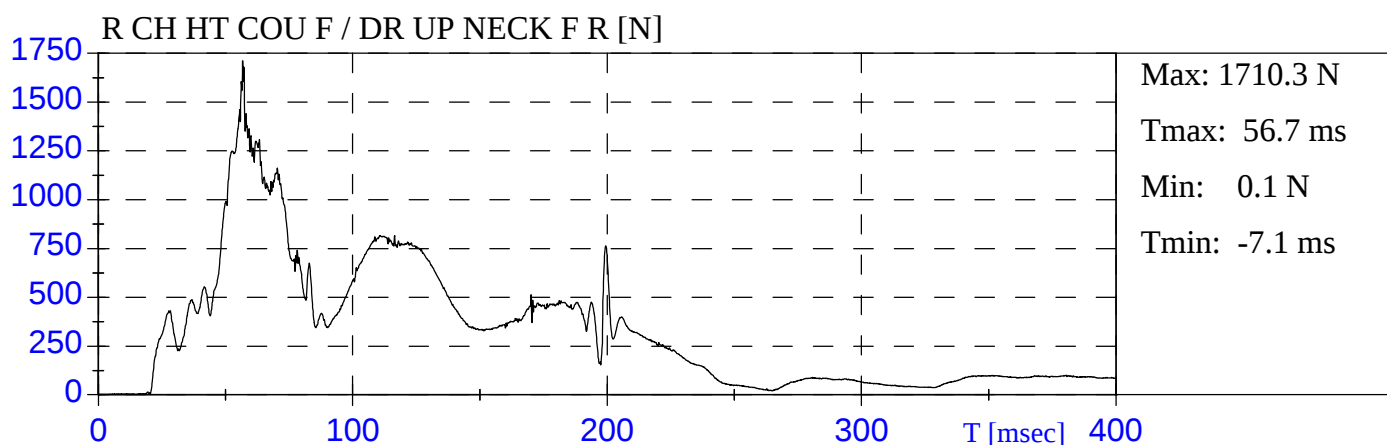
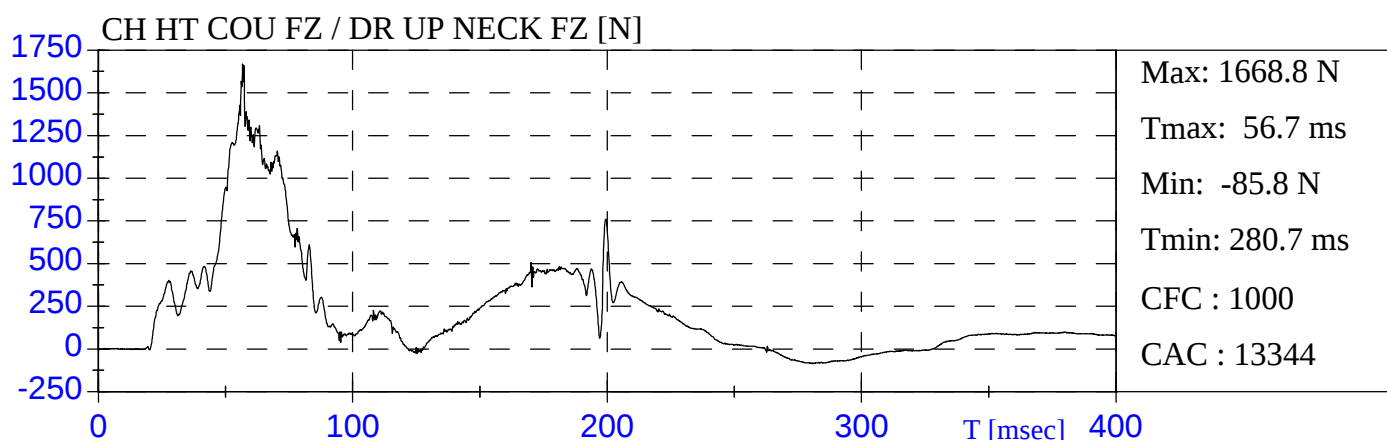
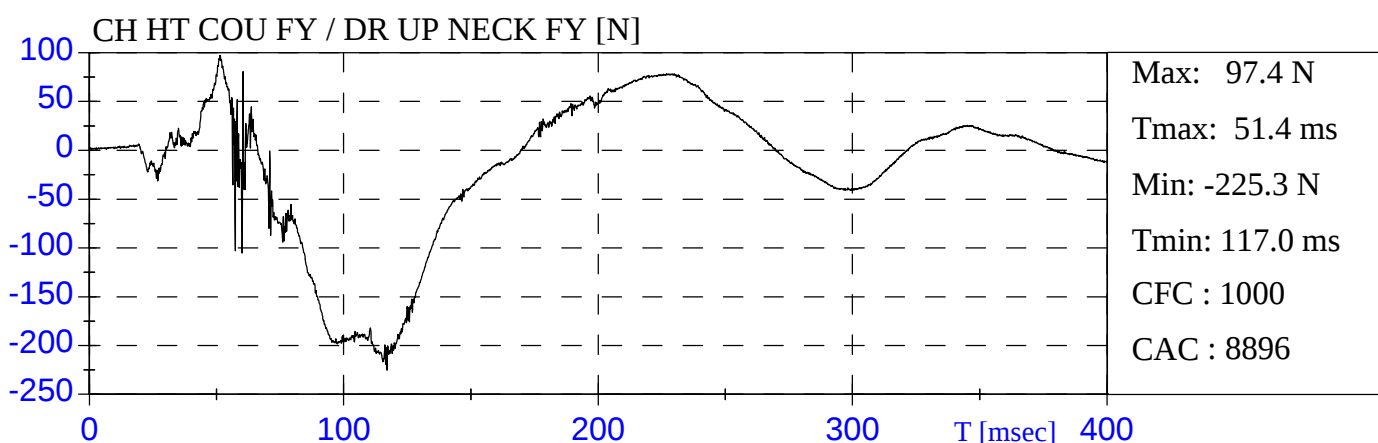
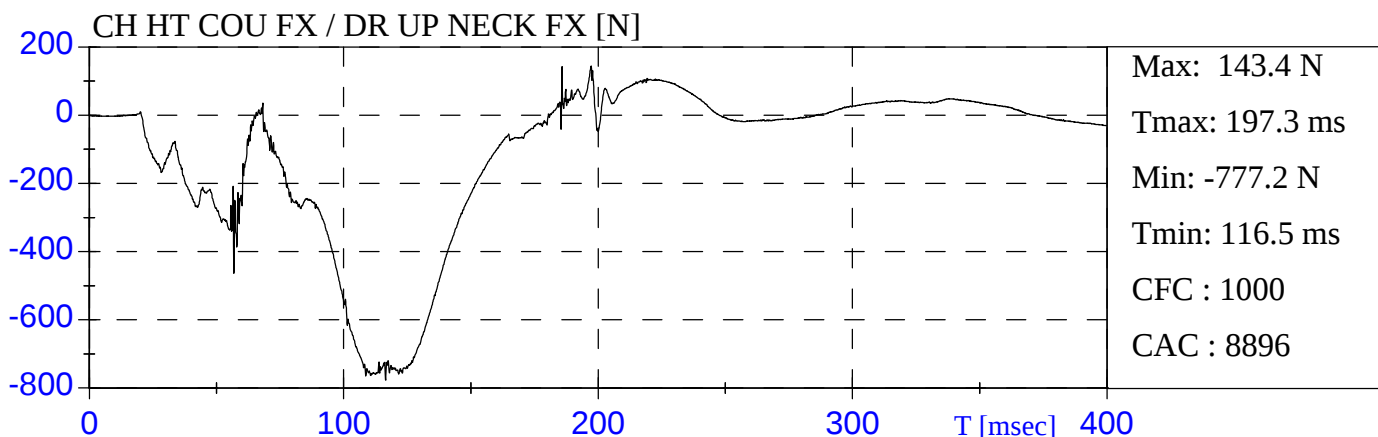




Nom du client Client Name	TRANSPORT CANADA
Type de véhicule Type of Vehicle	NISSAN 350Z 2004
Numéro de TC Tc Number	TC04-132
Numéro de contrat Contract No	04-6008
Acquisition de données selon Data Acquisition according to	SAE J211/1 MAR 95
Date de l'essai Test date	2004-04-01
Titre du projet Project Title	COLLISION DE RECHERCHE COLLISION FRONTALE RESEARCH COLLISION TEST FRONTAL CRASH
MANNEQUIN / DUMMY	
Chauffeur Driver	HYBRID III 50% M
Passager Passenger	HYBRID III 50% M
Passager 1 (arrière gauche) Passenger 1 (rear left)	
Passager 2 (arrière centre) Passenger 2 (rear center)	





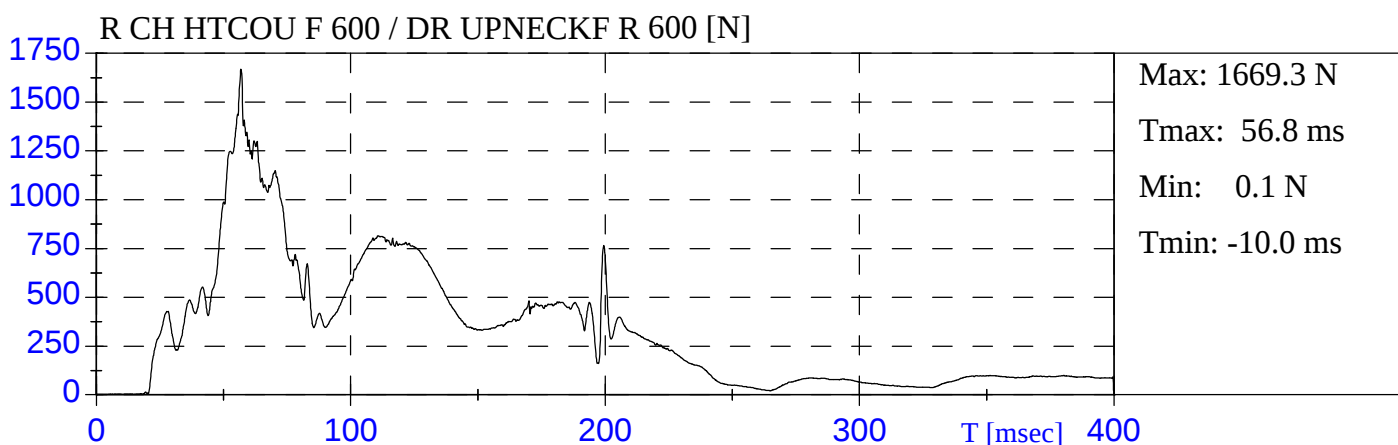
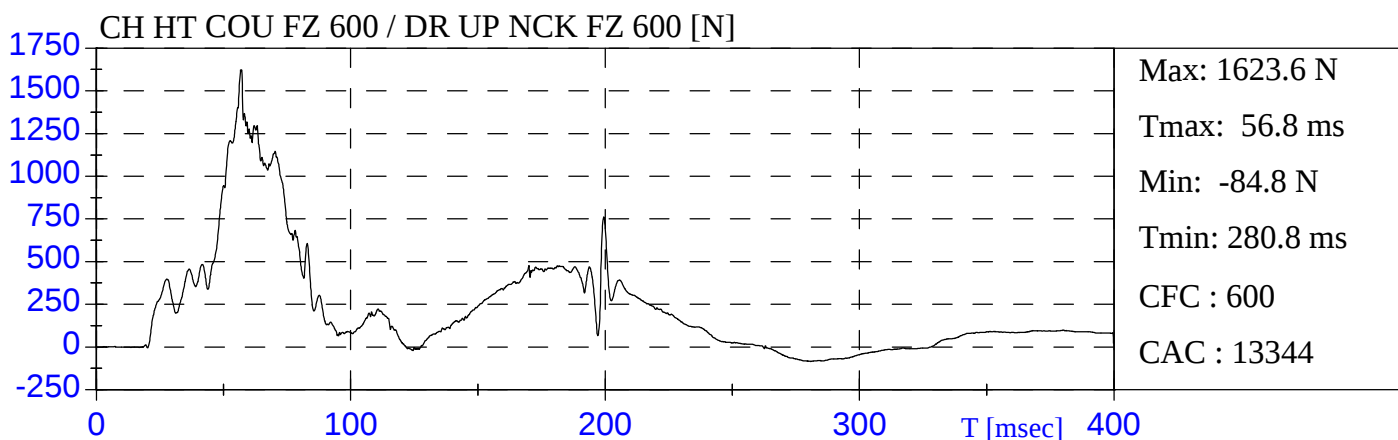
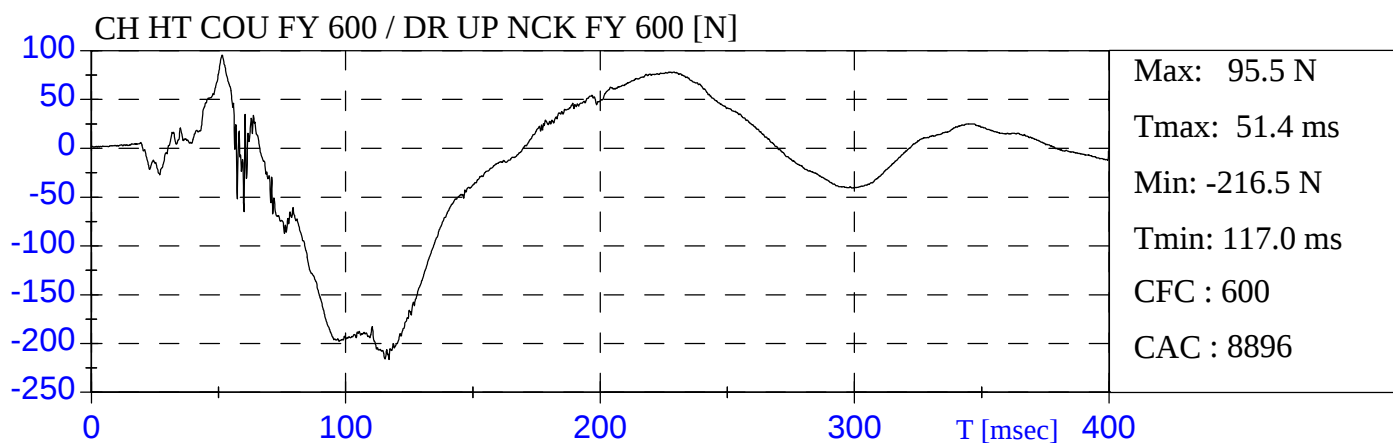
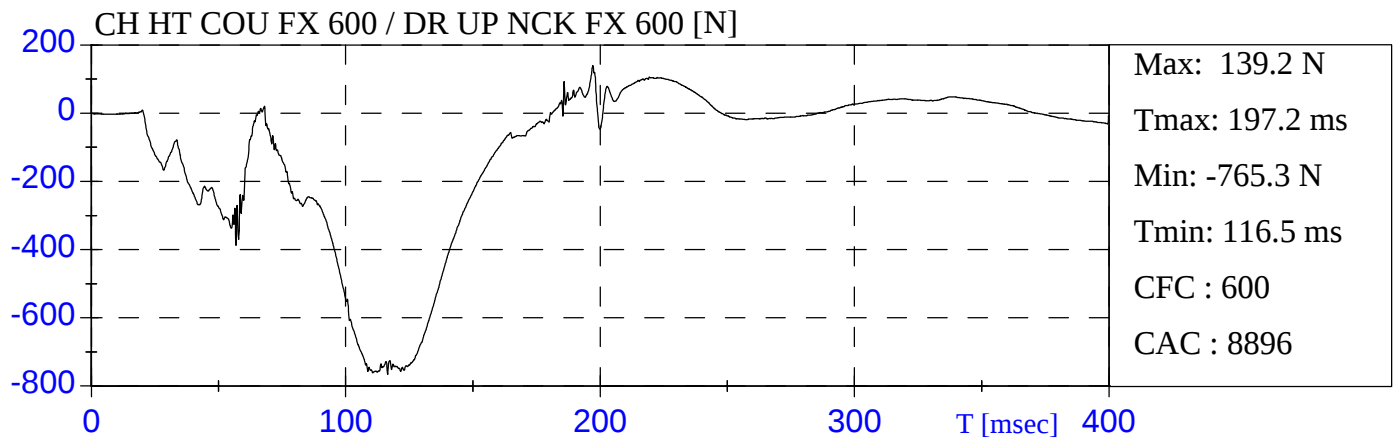


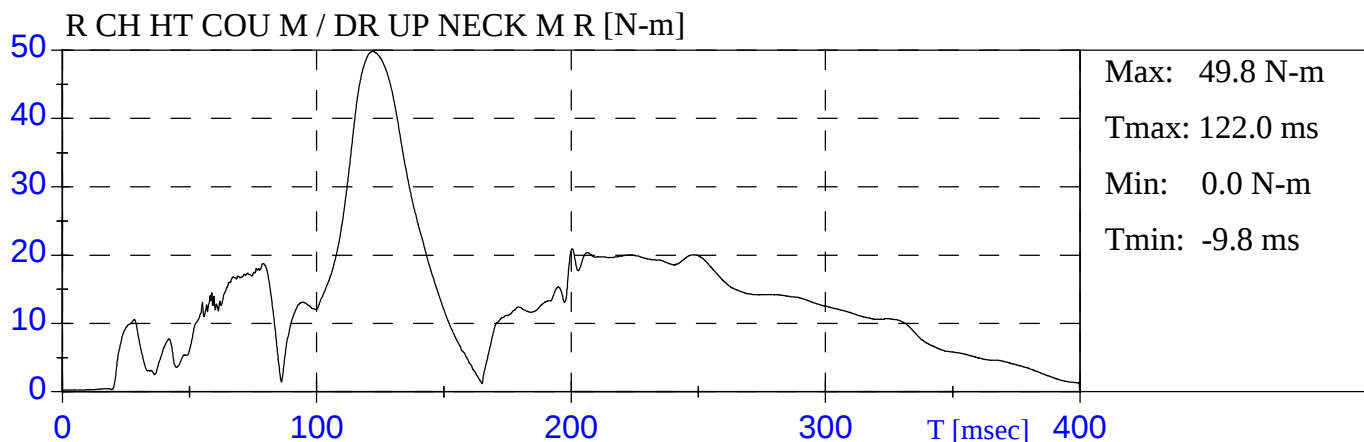
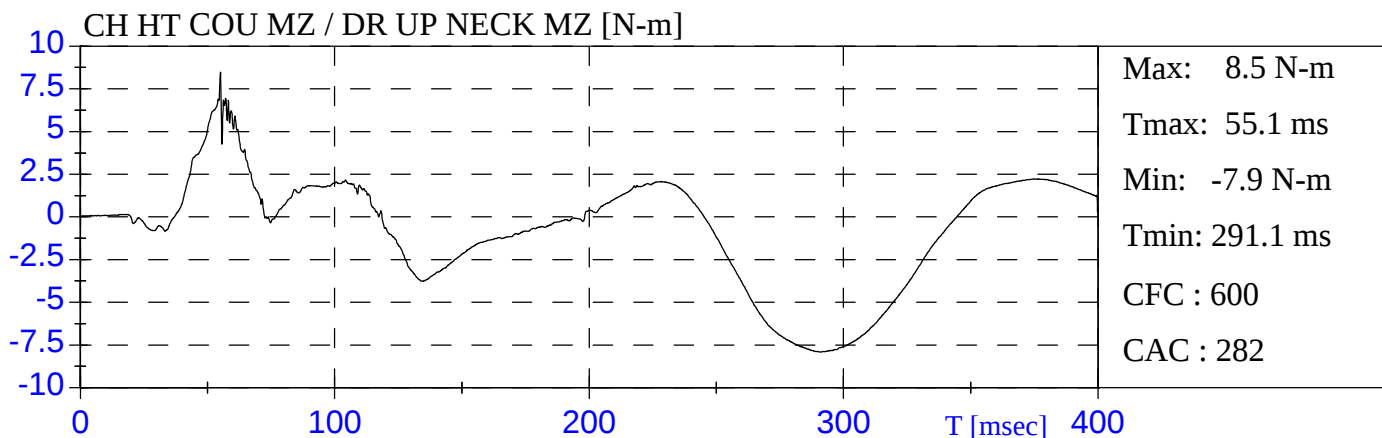
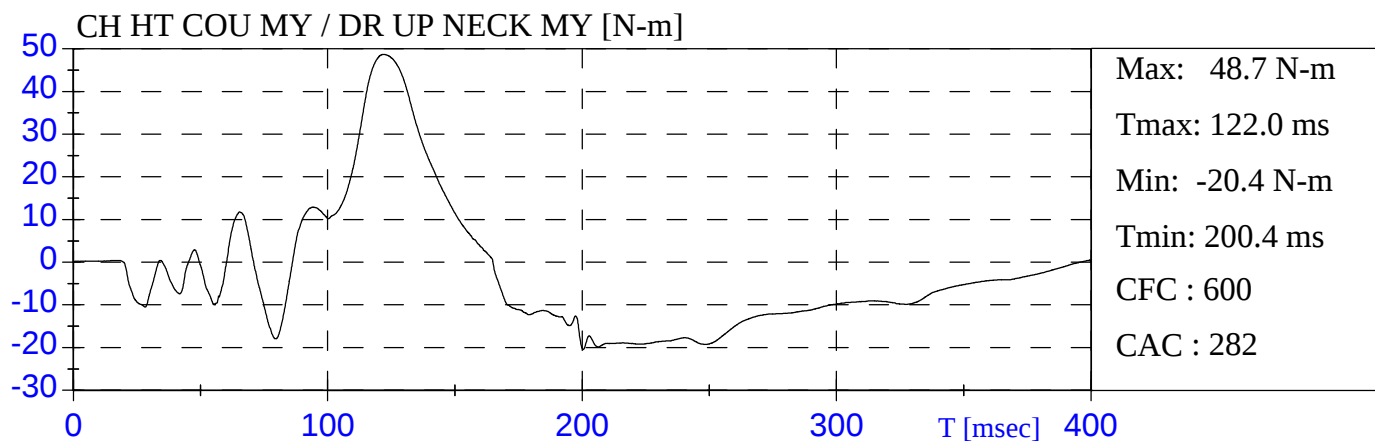
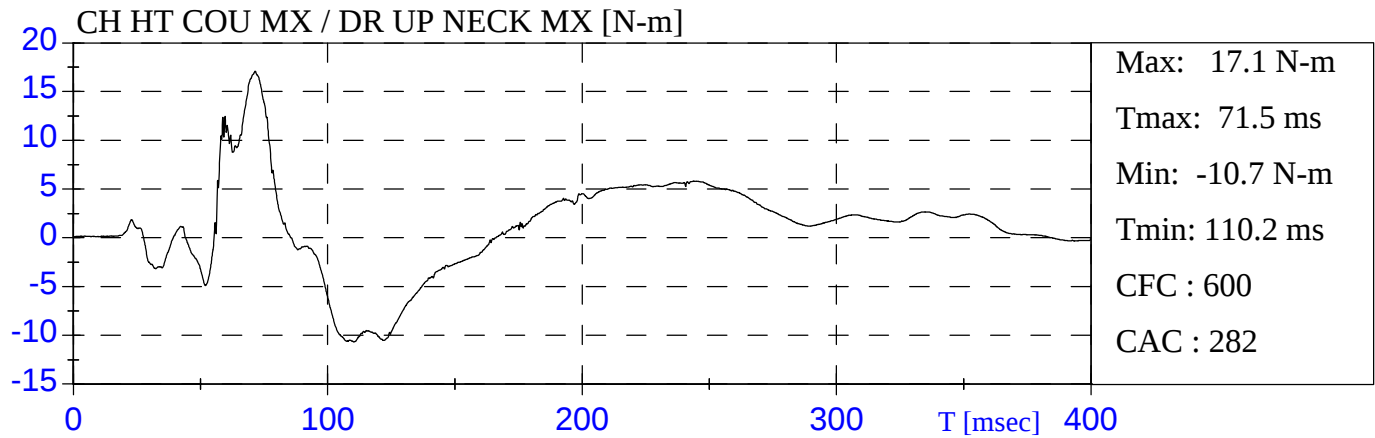
COLLISION FRONTALE
FRONTAL CRASH

Date: 2004-04-01

NISSAN 350Z 2004

N° TC / TC No.: TC04-132





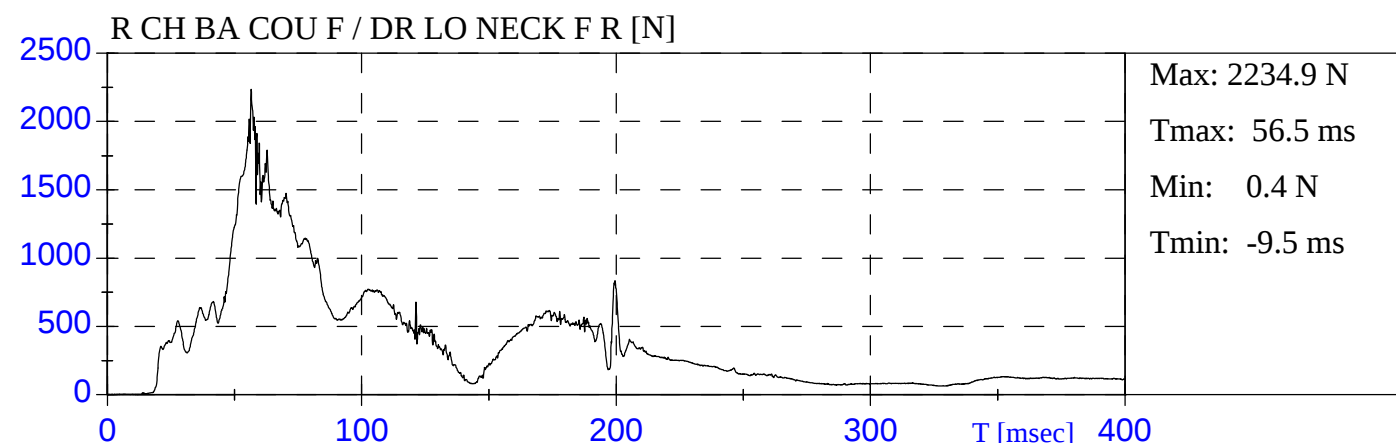
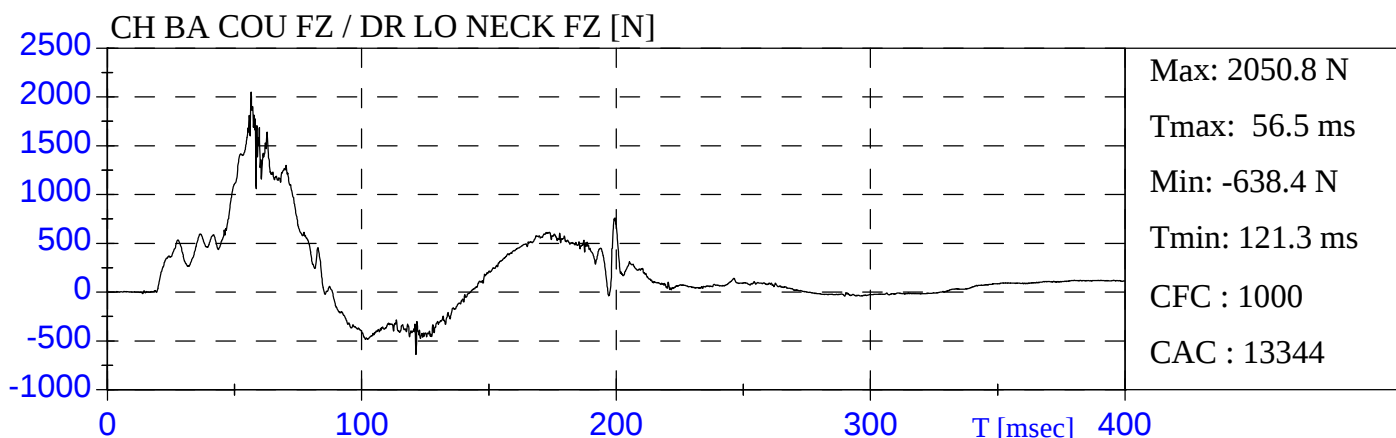
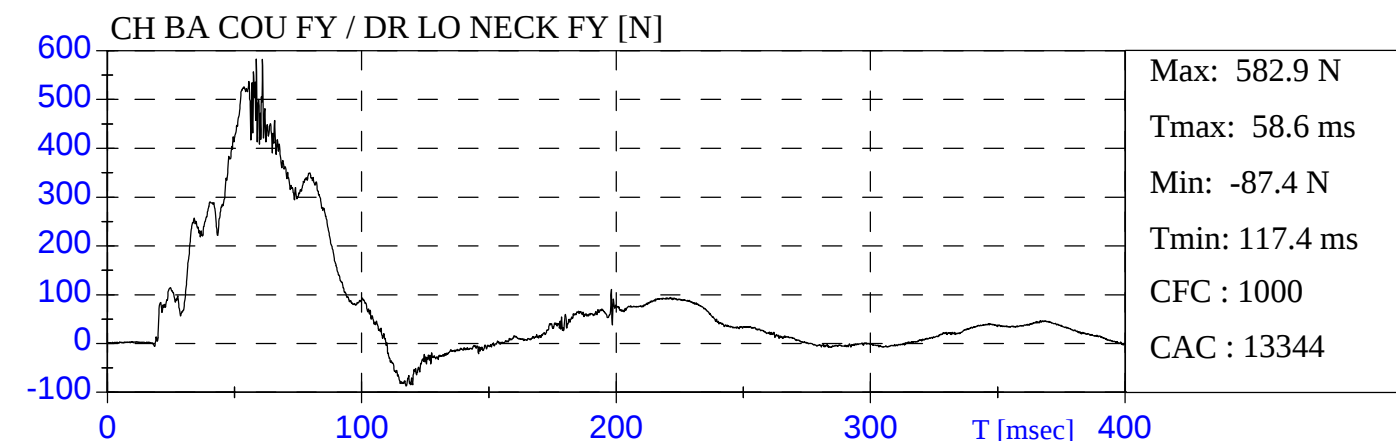
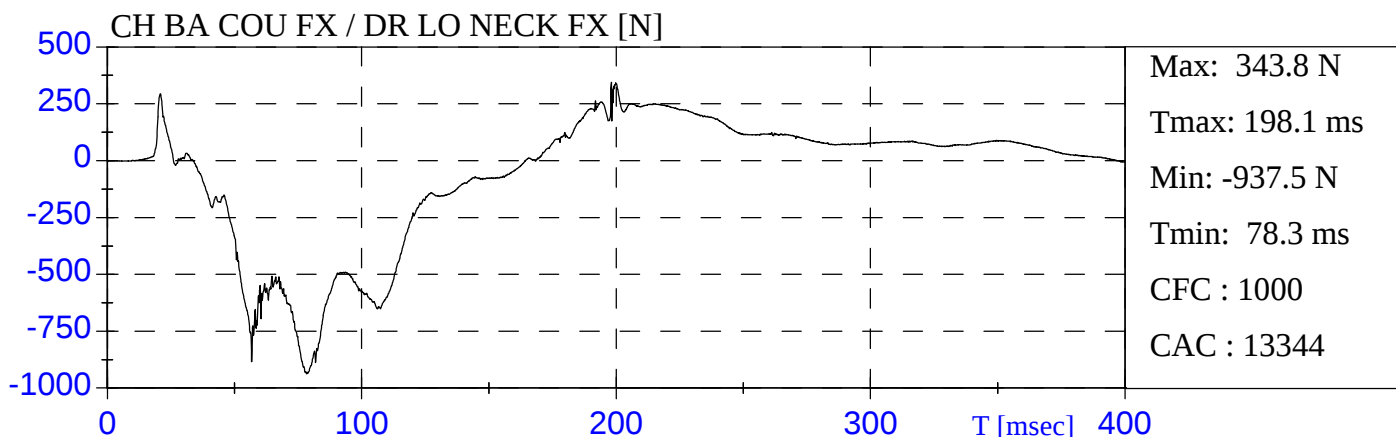


COLLISION FRONTALE
FRONTAL CRASH

Date: 2004-04-01

NISSAN 350Z 2004

N° TC / TC No.: TC04-132



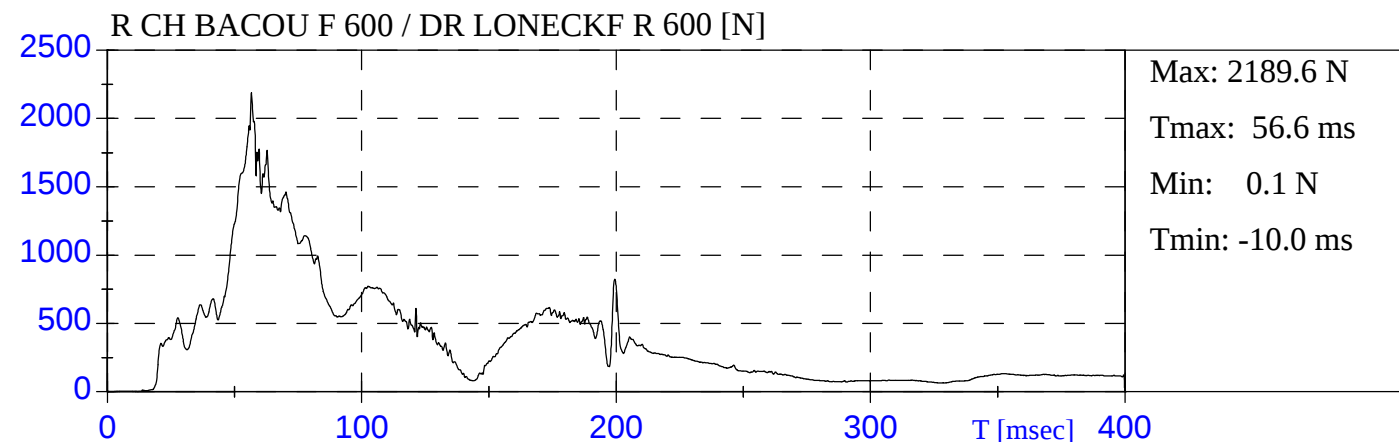
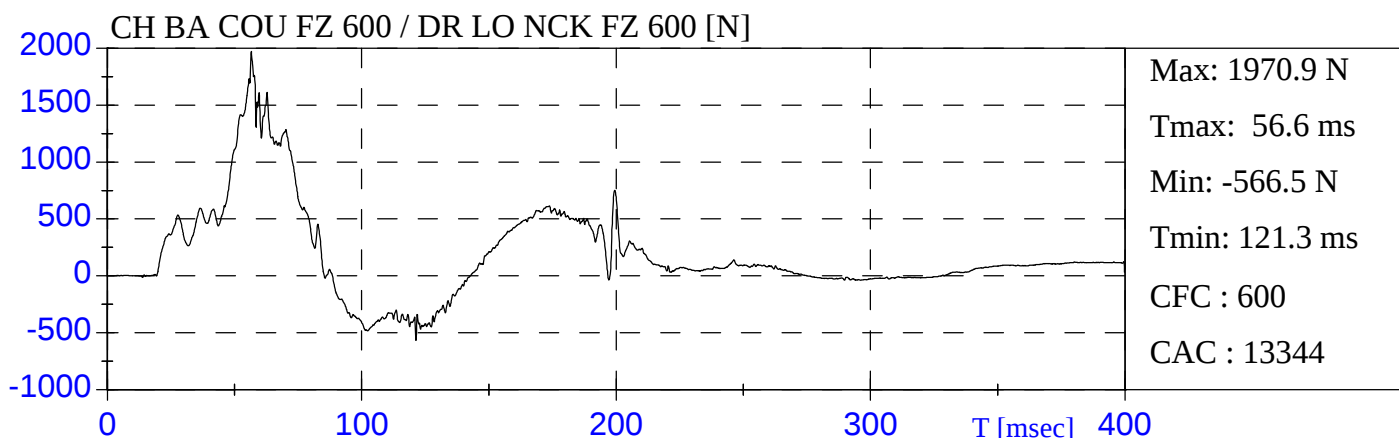
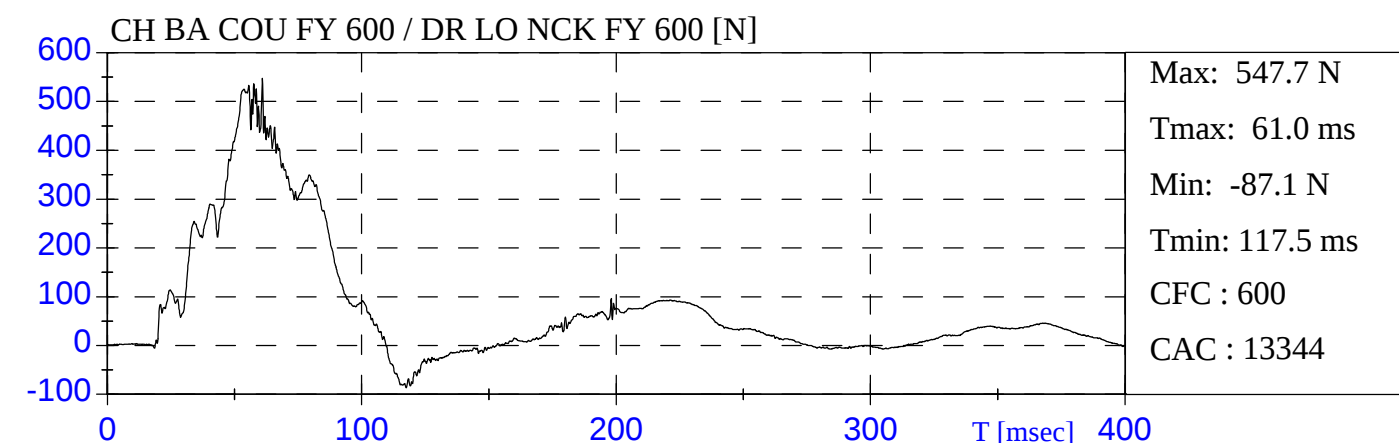
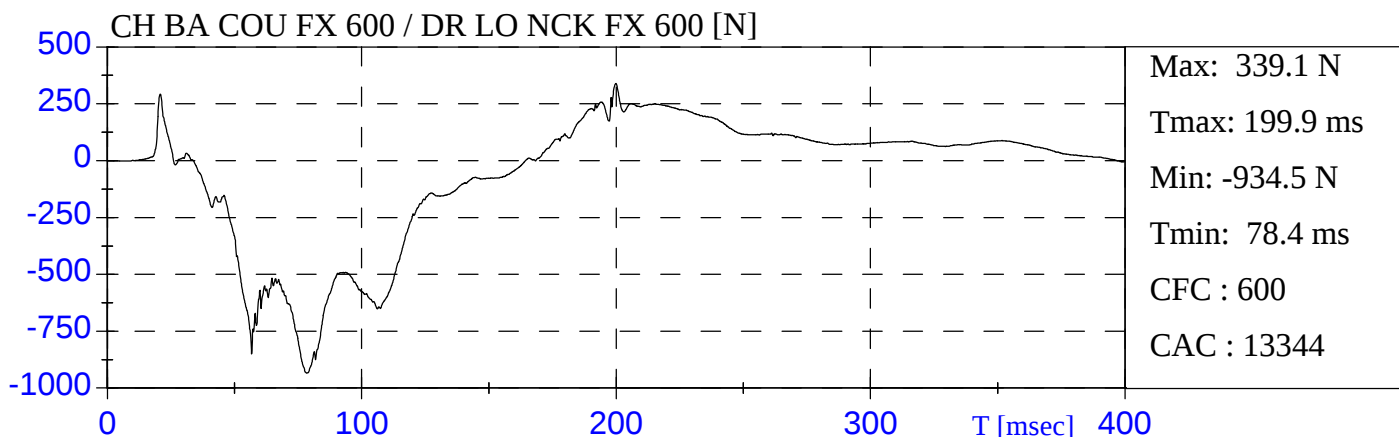


COLLISION FRONTALE
FRONTAL CRASH

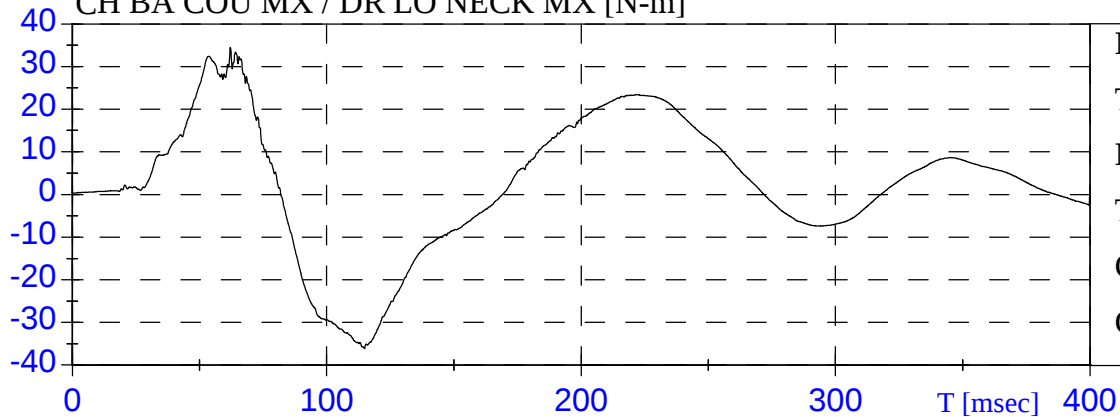
Date: 2004-04-01

NISSAN 350Z 2004

N° TC / TC No.: TC04-132

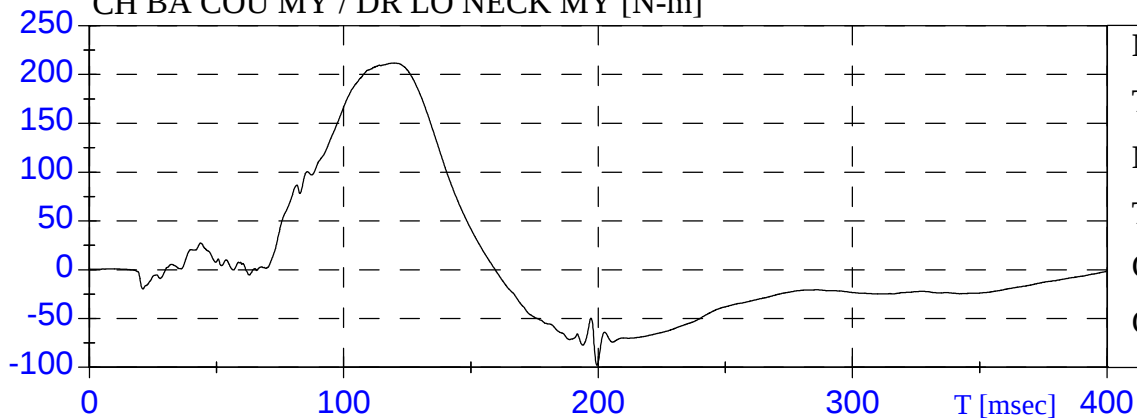


CH BA COU MX / DR LO NECK MX [N-m]



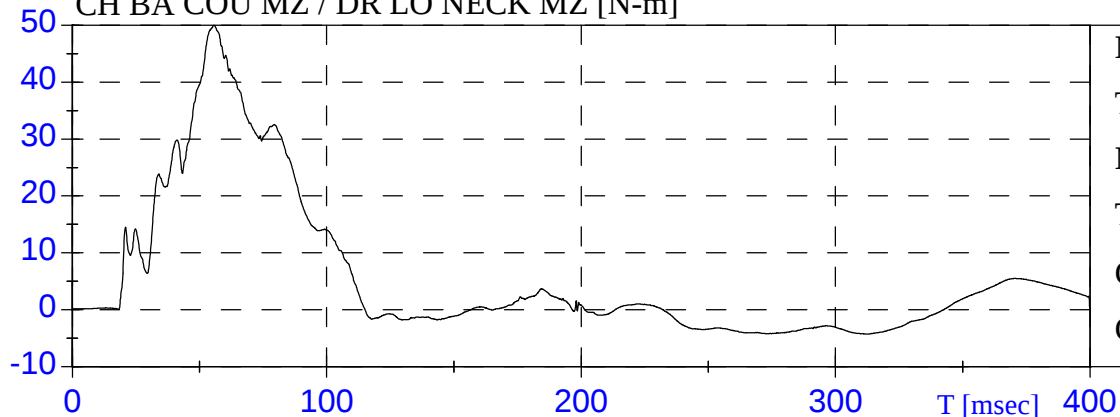
Max: 34.4 N-m
Tmax: 62.1 ms
Min: -36.1 N-m
Tmin: 114.8 ms
CFC : 600
CAC : 451

CH BA COU MY / DR LO NECK MY [N-m]



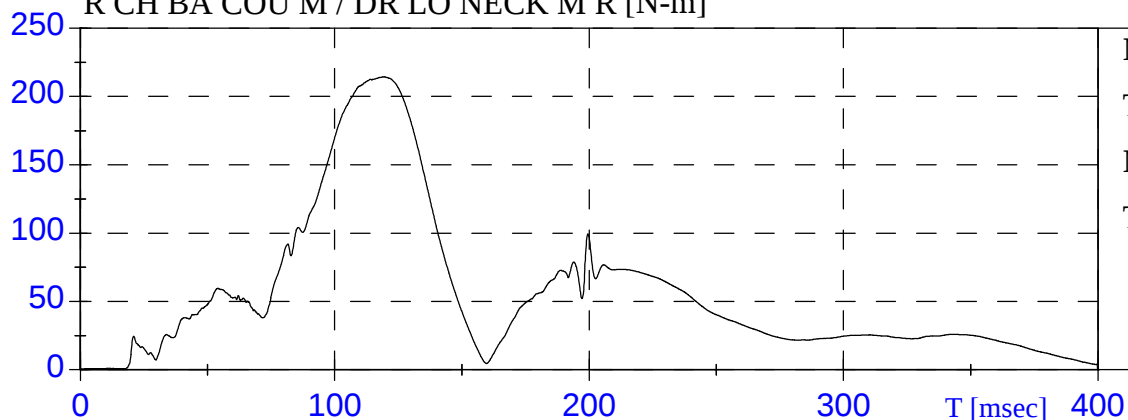
Max: 211.9 N-m
Tmax: 119.6 ms
Min: -97.9 N-m
Tmin: 199.5 ms
CFC : 600
CAC : 451

CH BA COU MZ / DR LO NECK MZ [N-m]

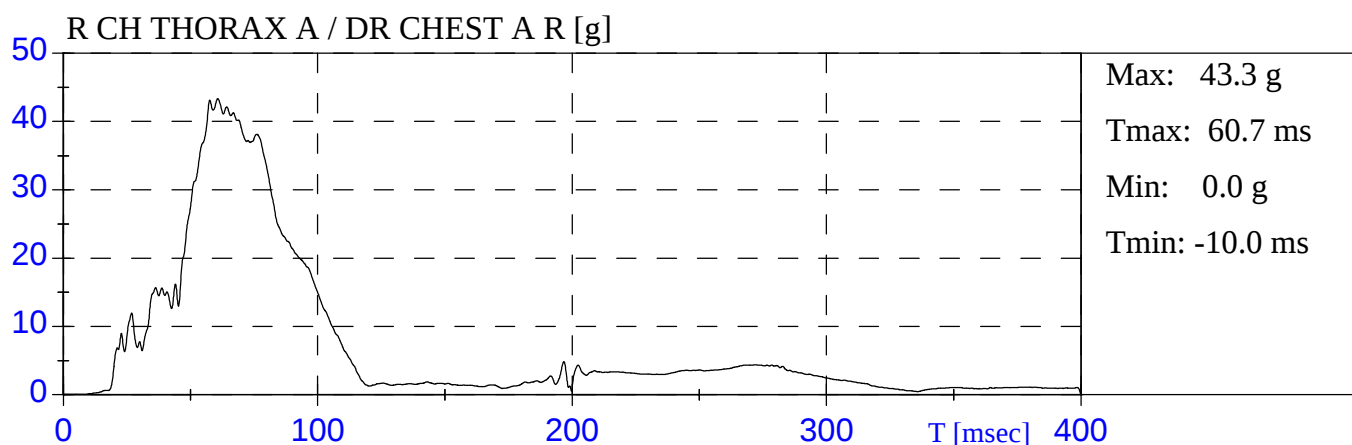
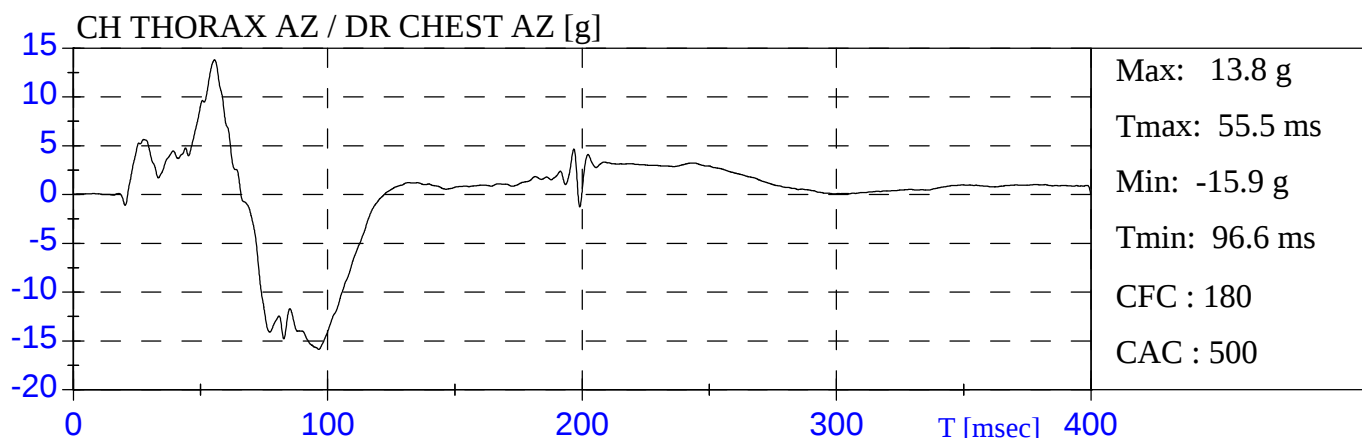
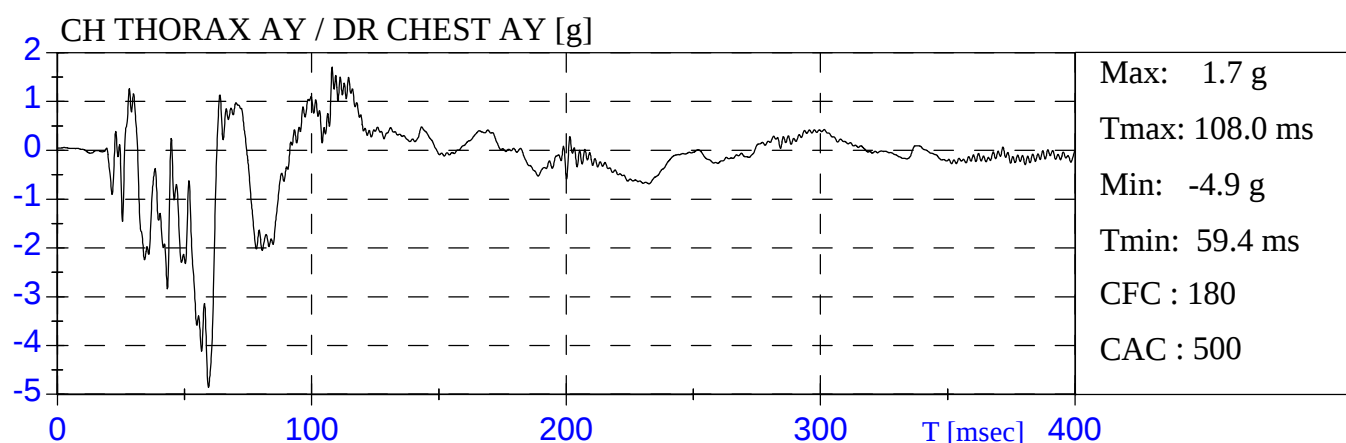
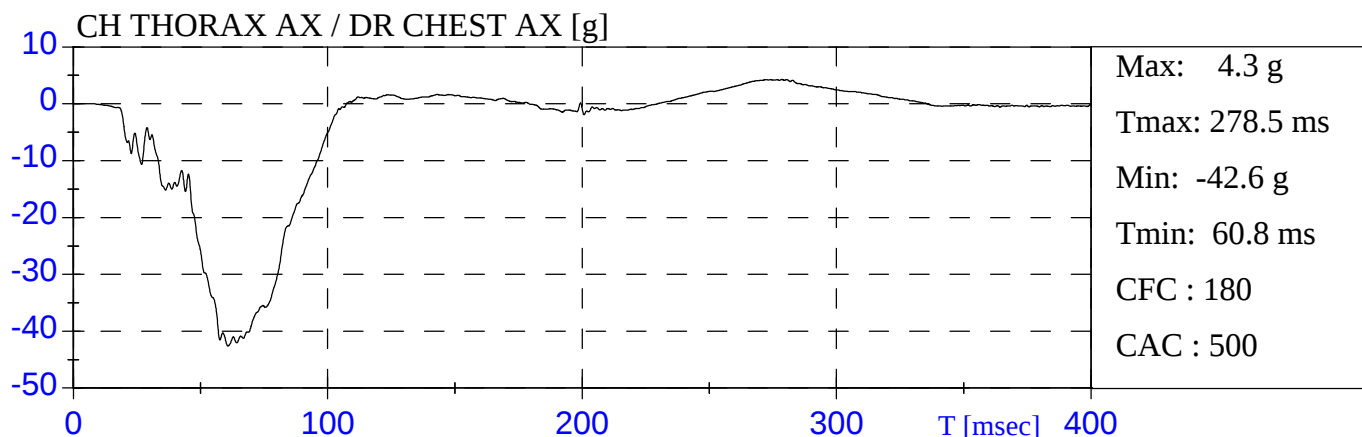


Max: 50.0 N-m
Tmax: 55.8 ms
Min: -4.3 N-m
Tmin: 313.3 ms
CFC : 600
CAC : 451

R CH BA COU M / DR LO NECK M R [N-m]



Max: 214.4 N-m
Tmax: 119.4 ms
Min: 0.0 N-m
Tmin: -10.0 ms



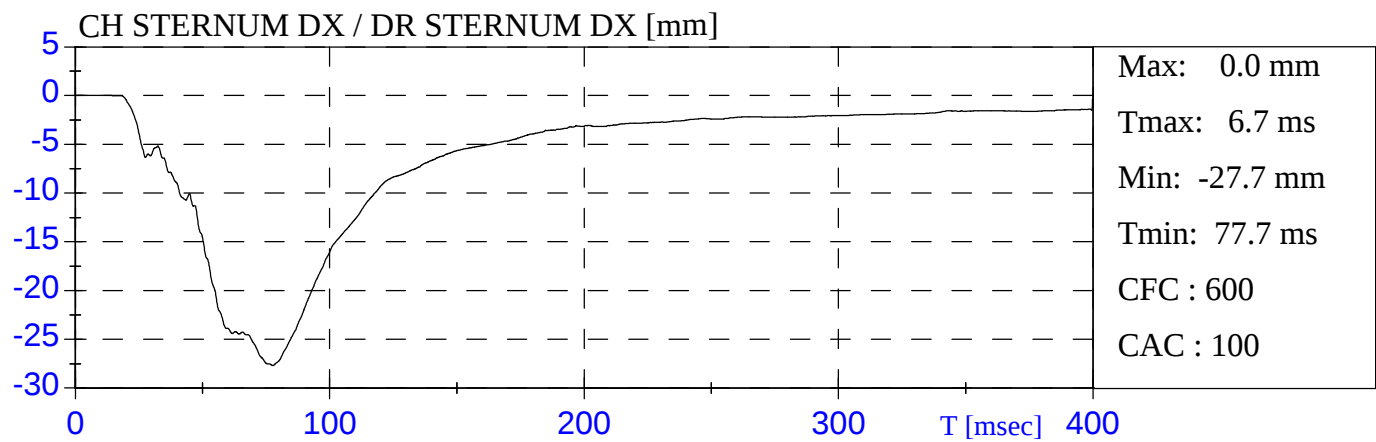


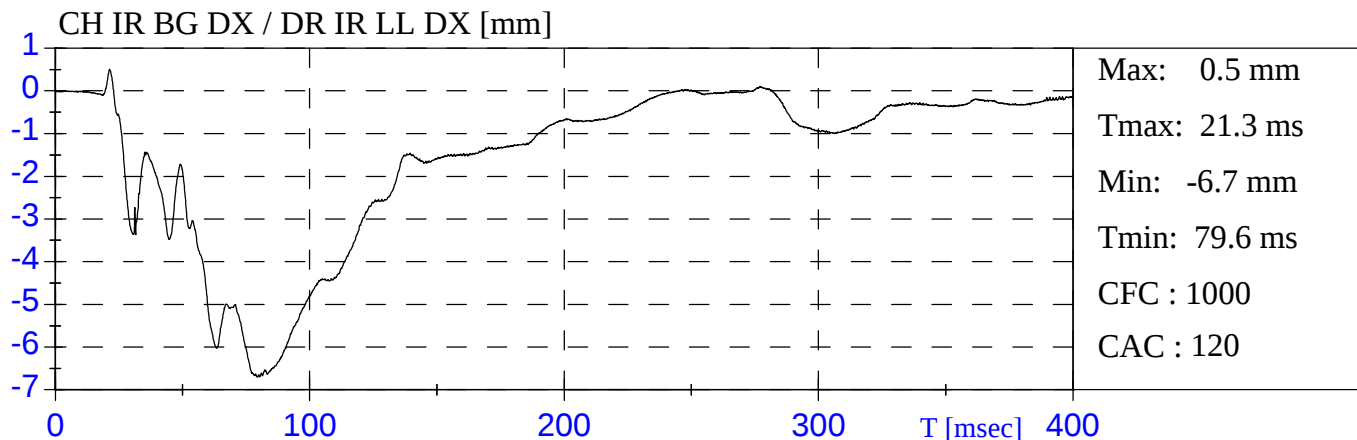
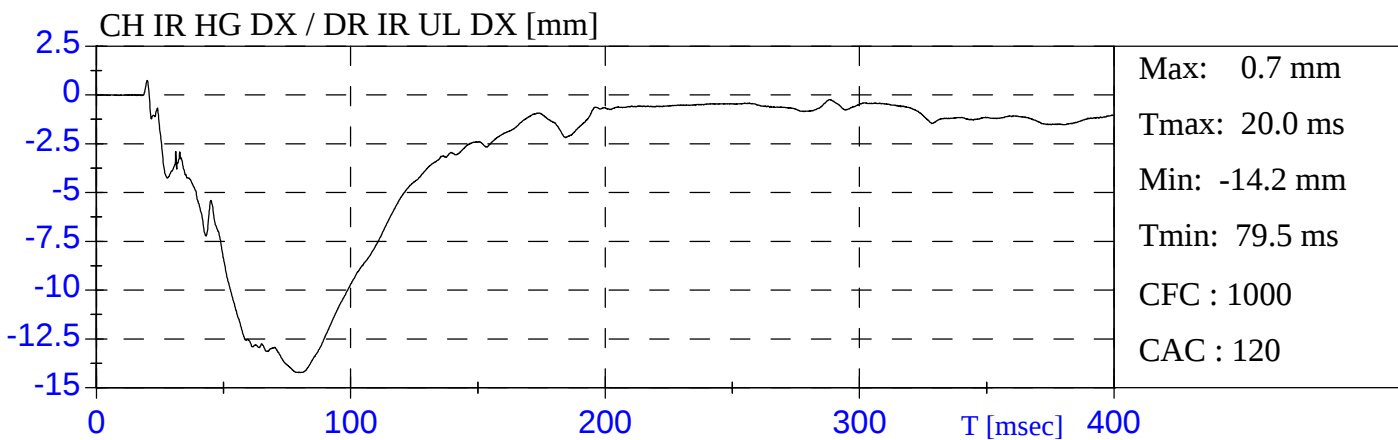
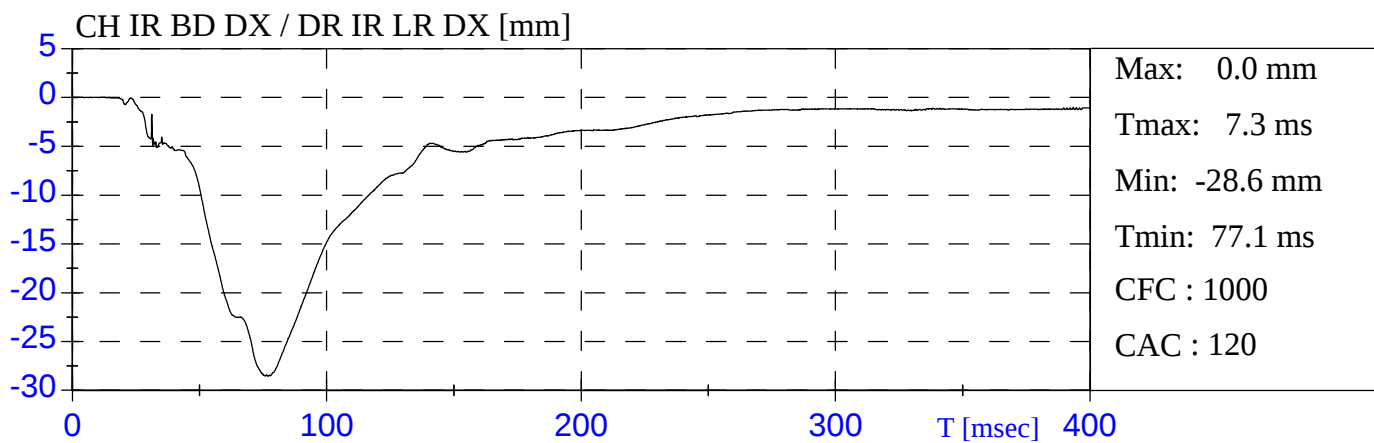
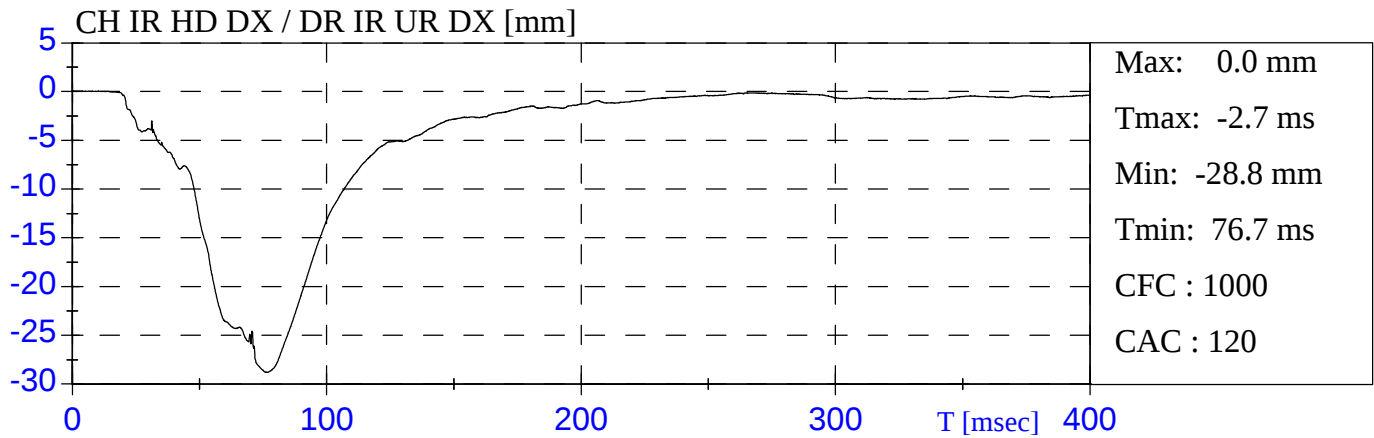
COLLISION FRONTALE
FRONTAL CRASH

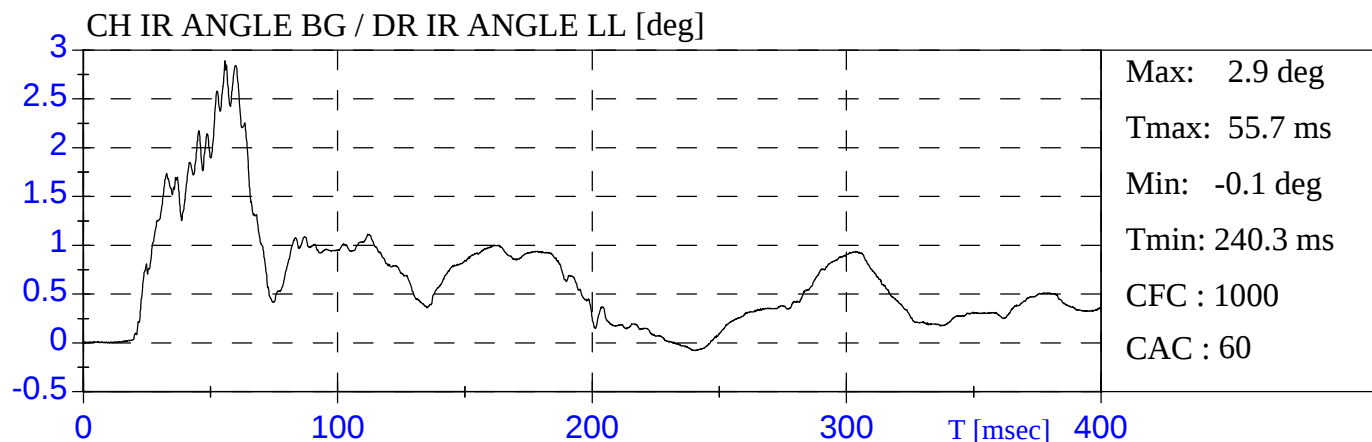
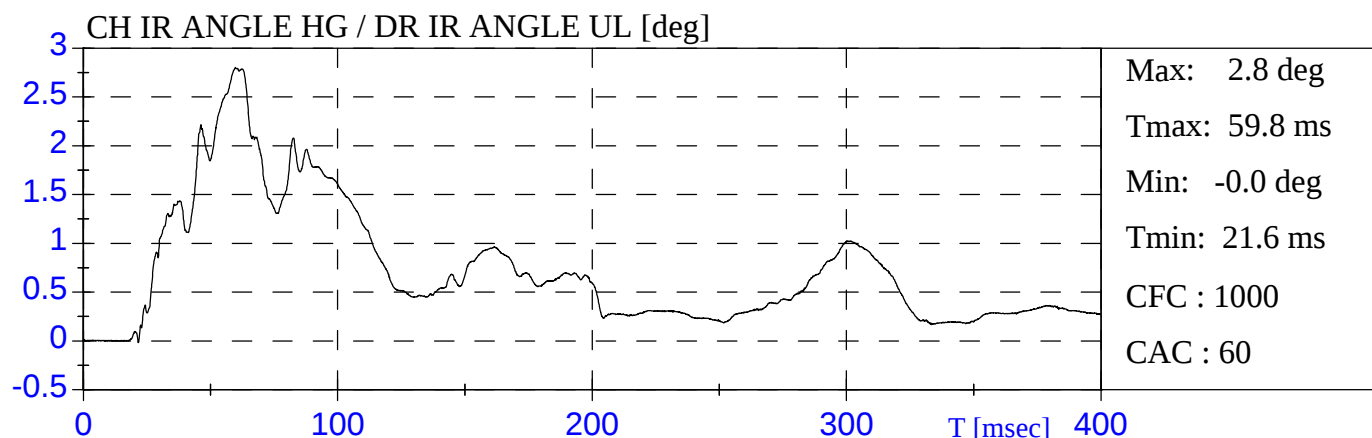
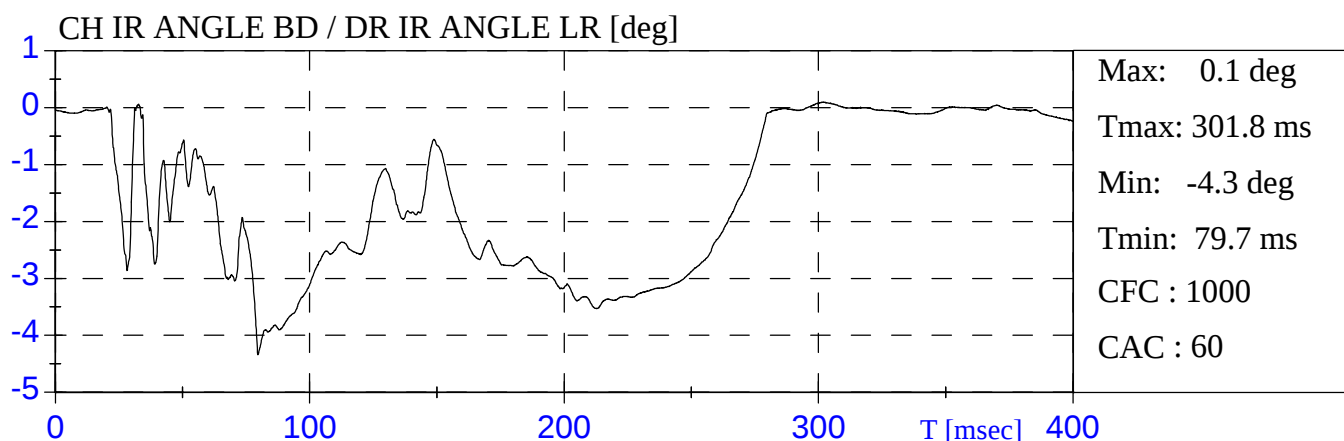
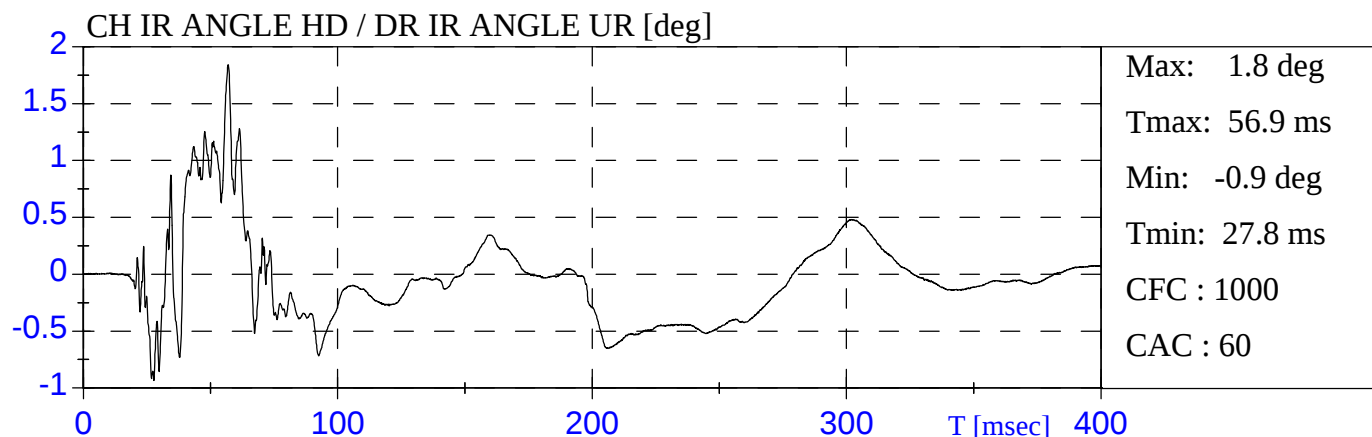
Date: 2004-04-01

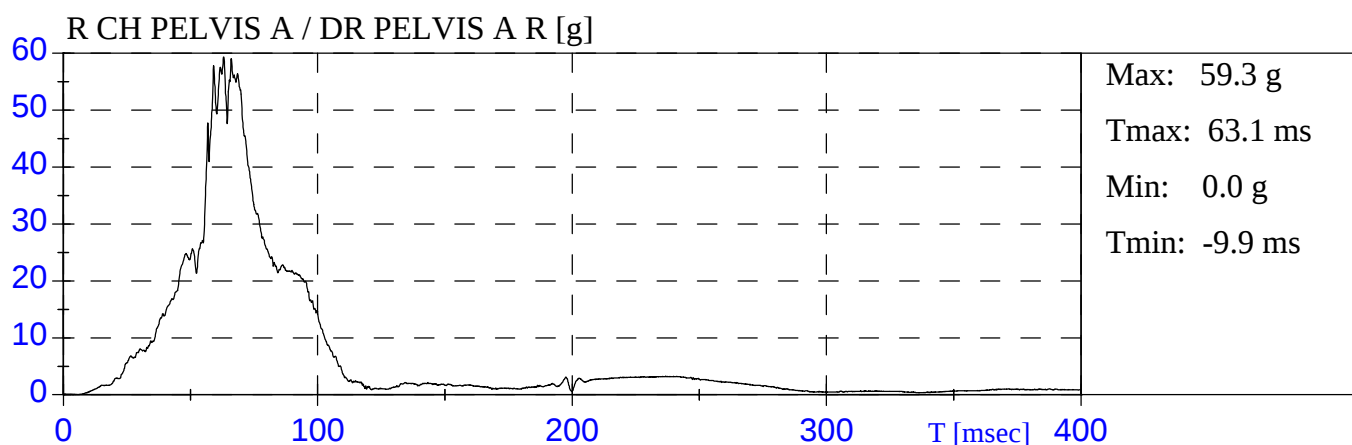
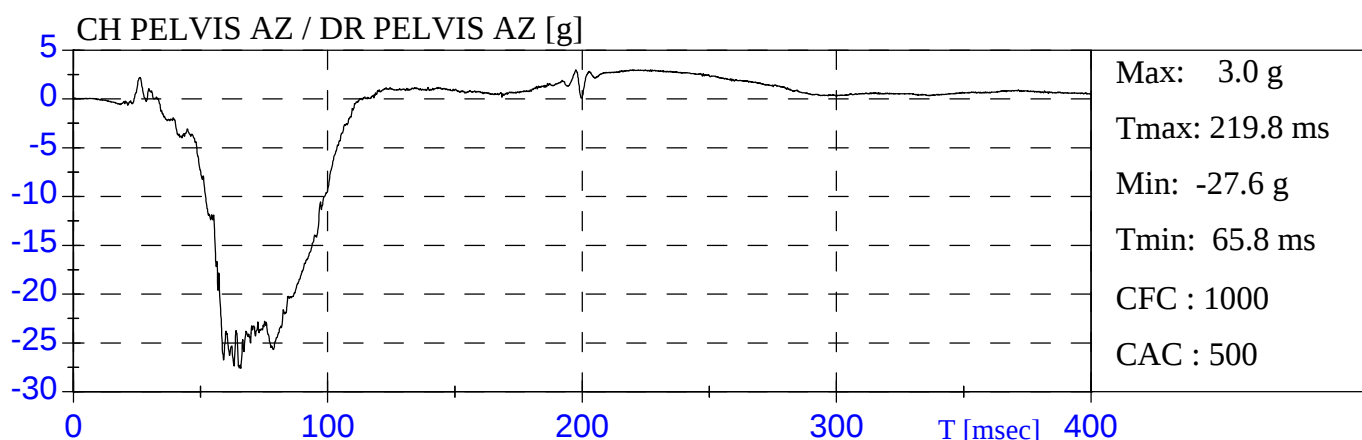
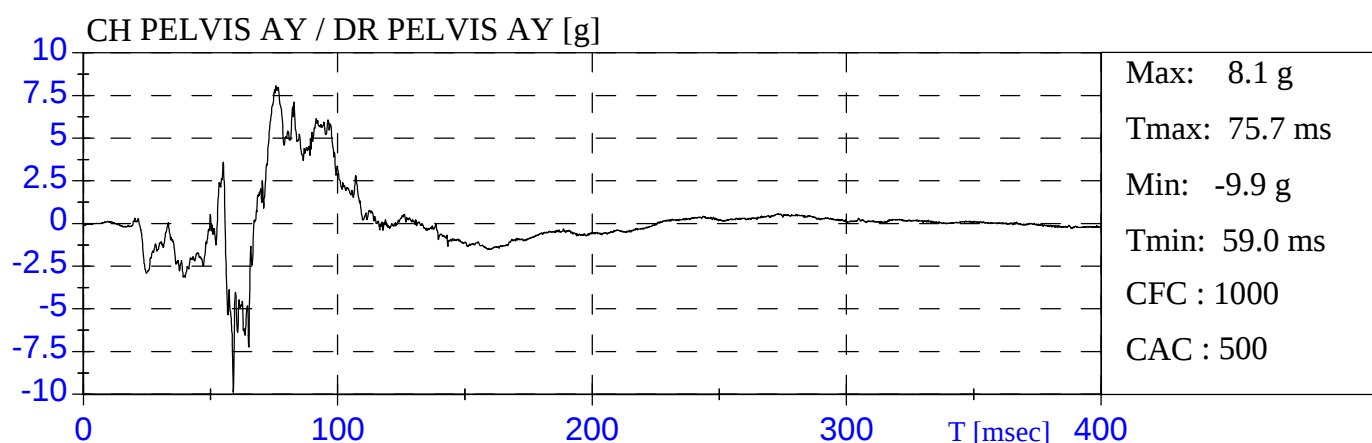
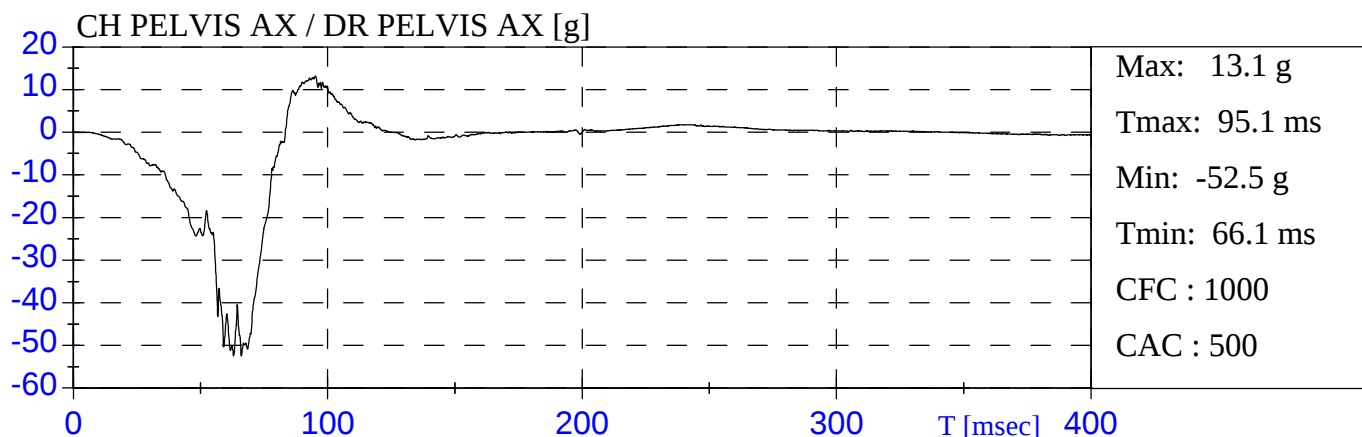
NISSAN 350Z 2004

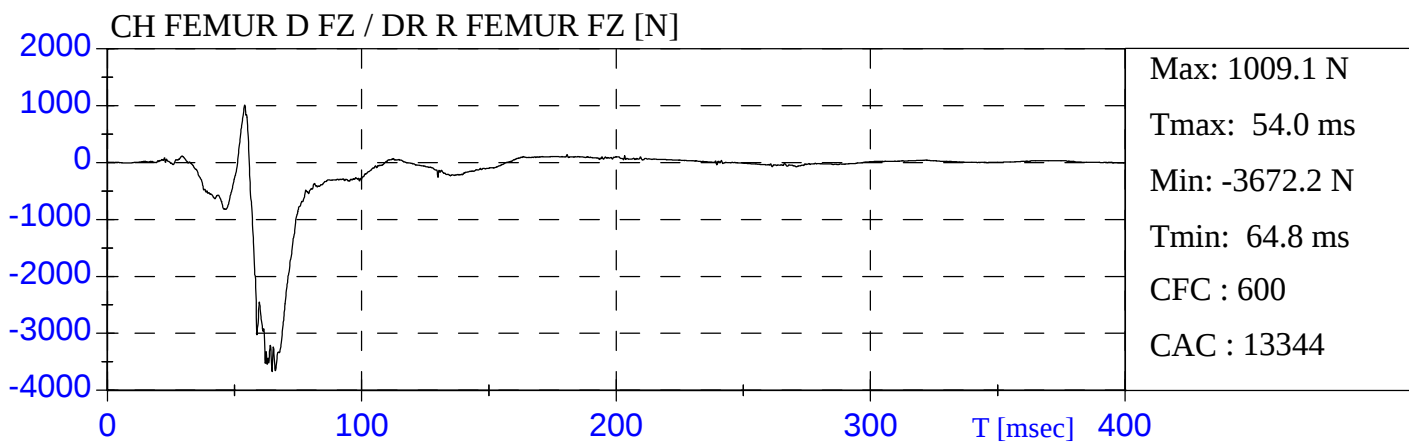
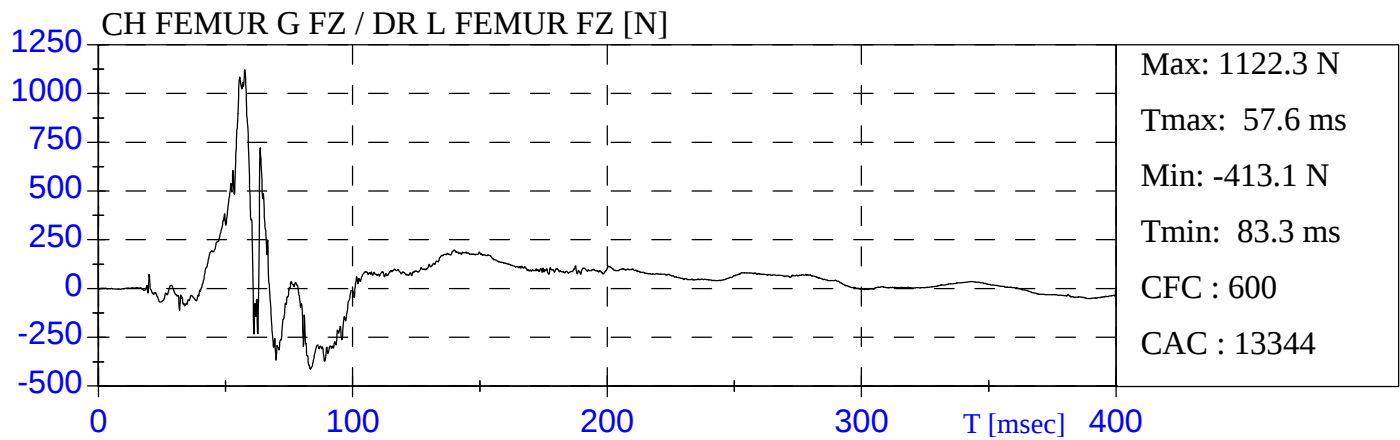
N° TC / TC No.: TC04-132

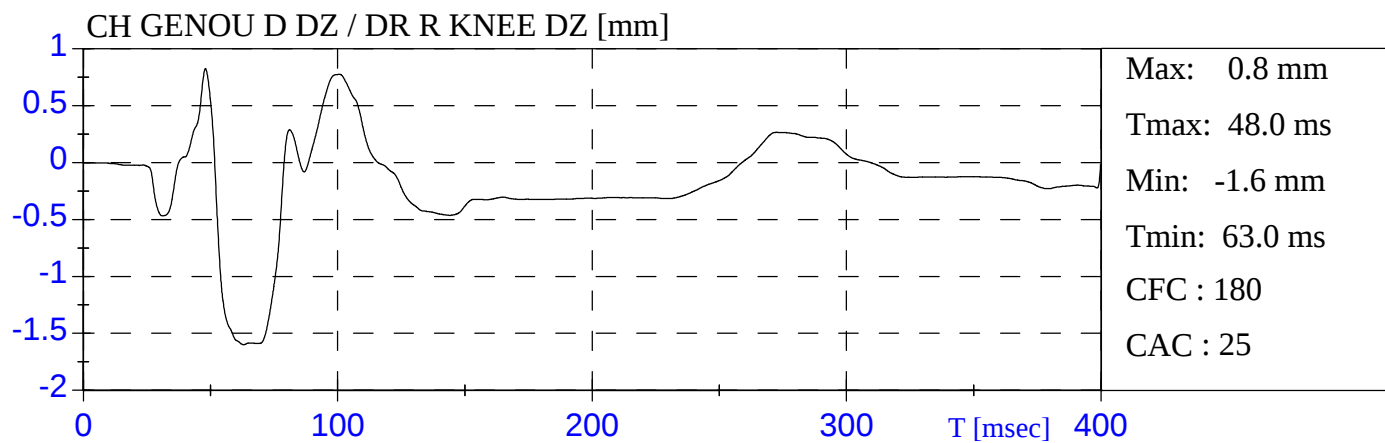
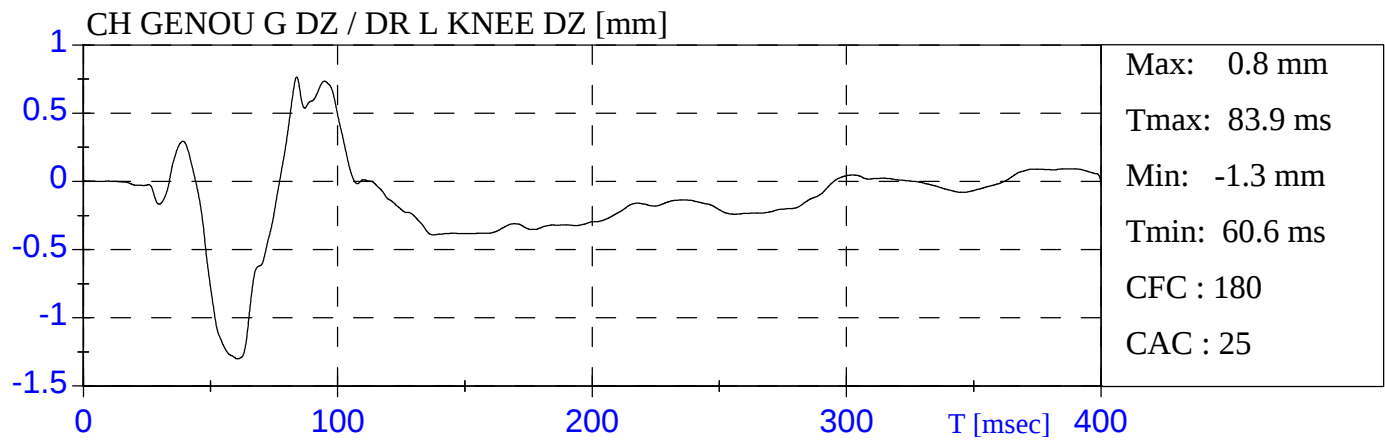


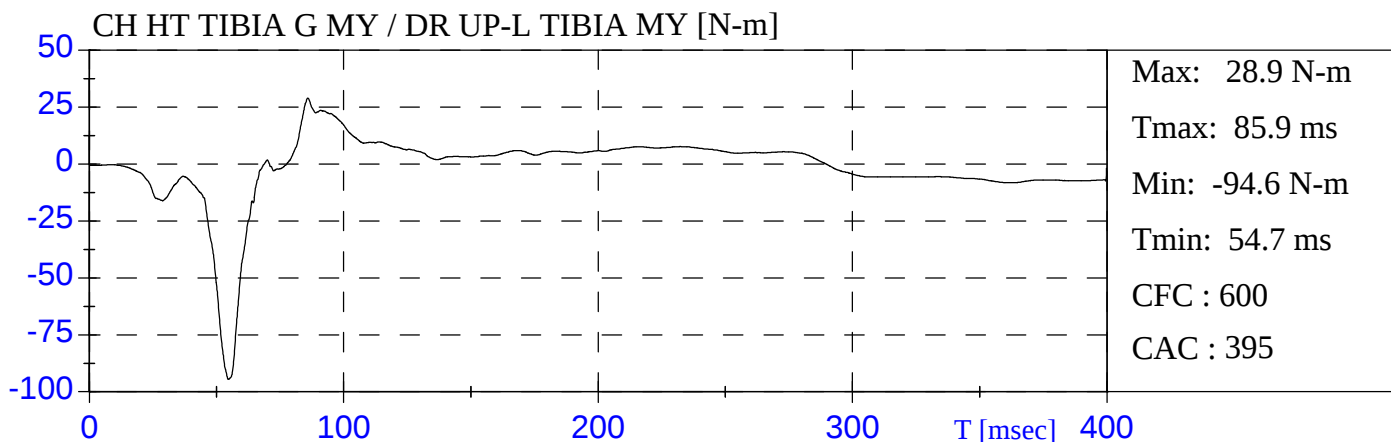
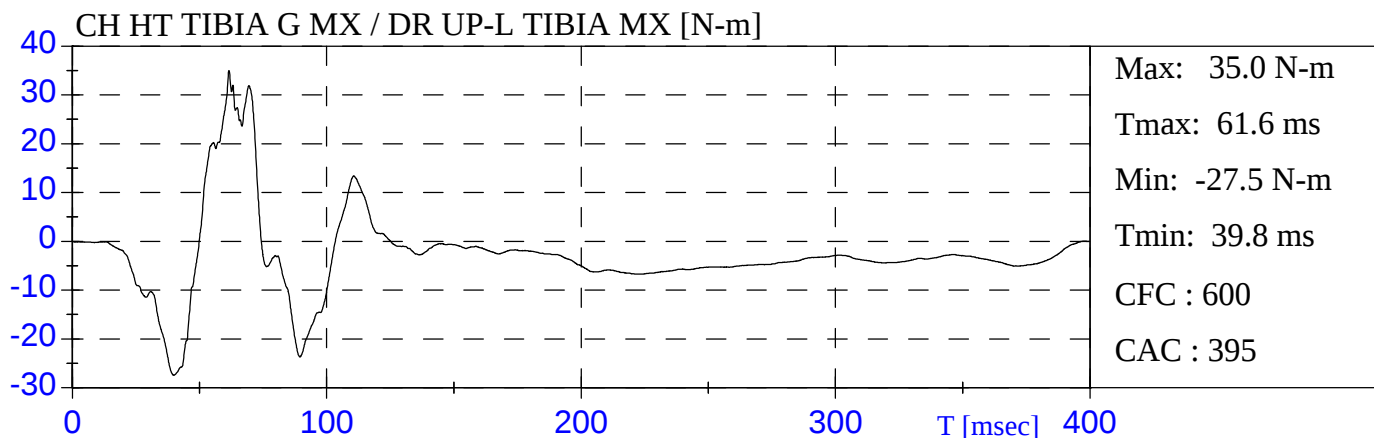
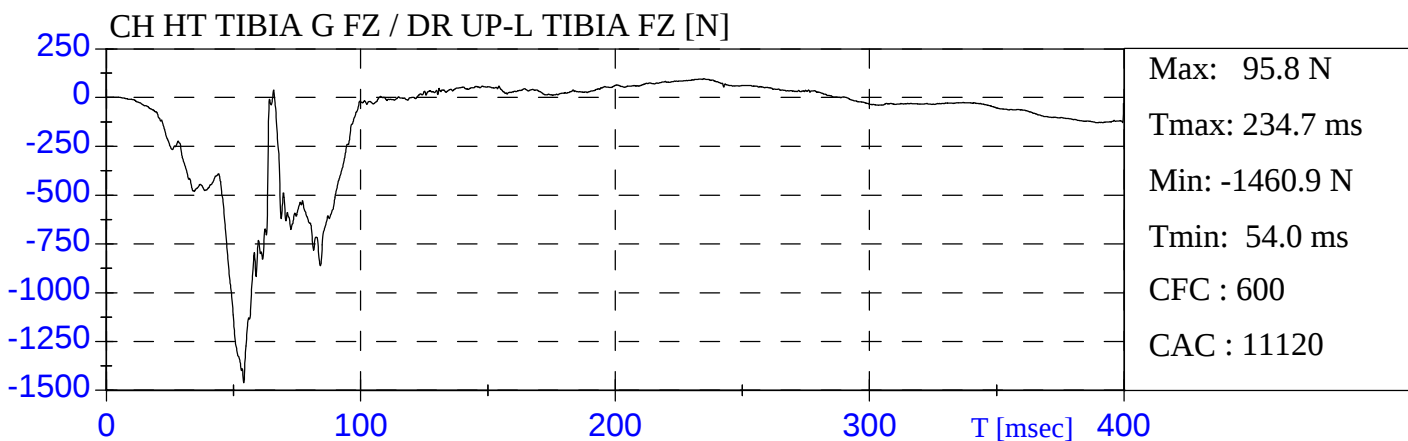
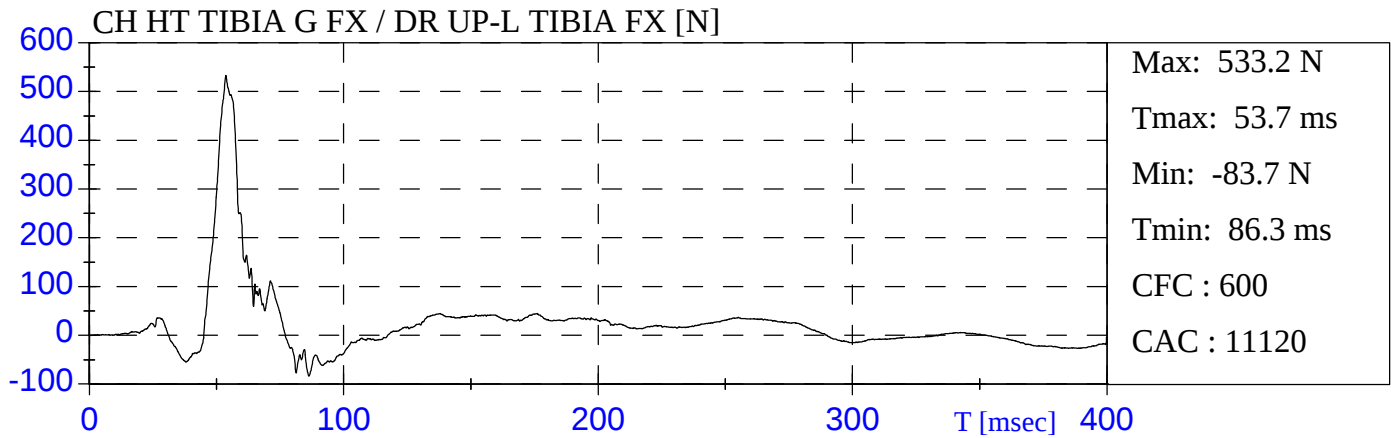














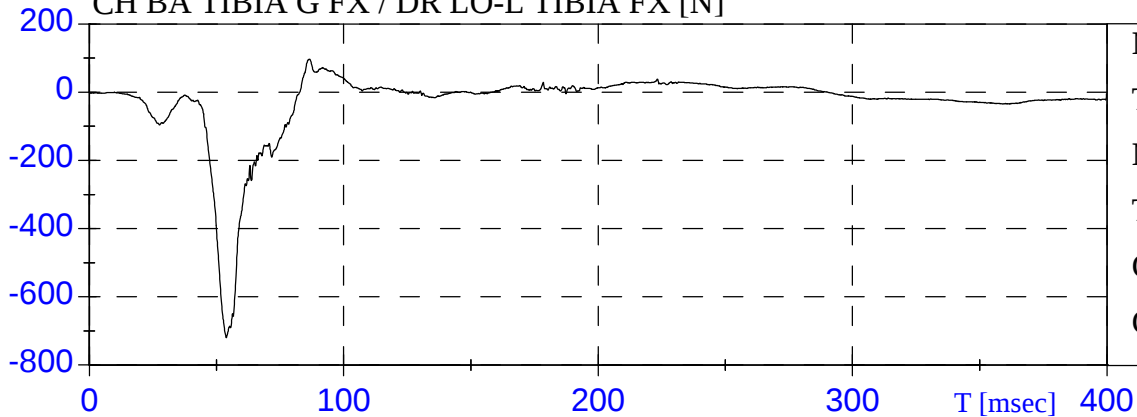
COLLISION FRONTALE
FRONTAL CRASH

Date: 2004-04-01

NISSAN 350Z 2004

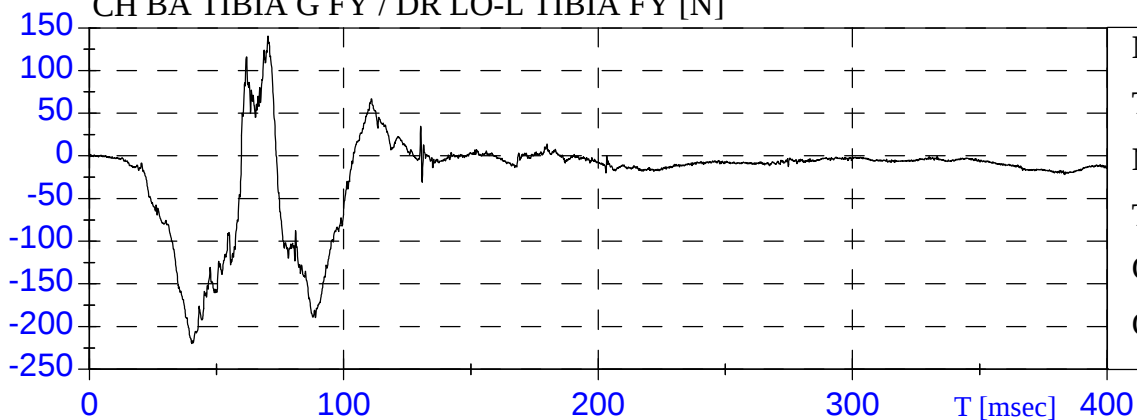
N° TC / TC No.: TC04-132

CH BA TIBIA G FX / DR LO-L TIBIA FX [N]



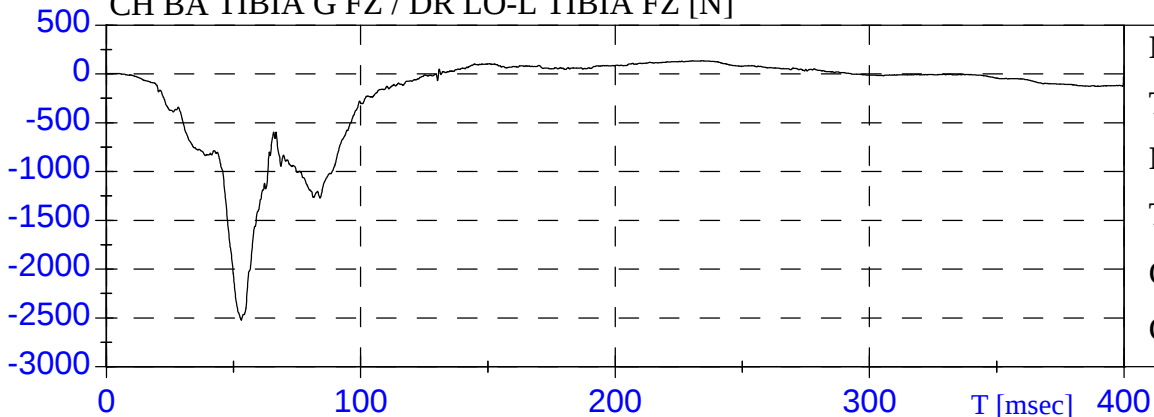
Max: 95.9 N
Tmax: 86.6 ms
Min: -719.2 N
Tmin: 53.9 ms
CFC : 600
CAC : 11120

CH BA TIBIA G FY / DR LO-L TIBIA FY [N]



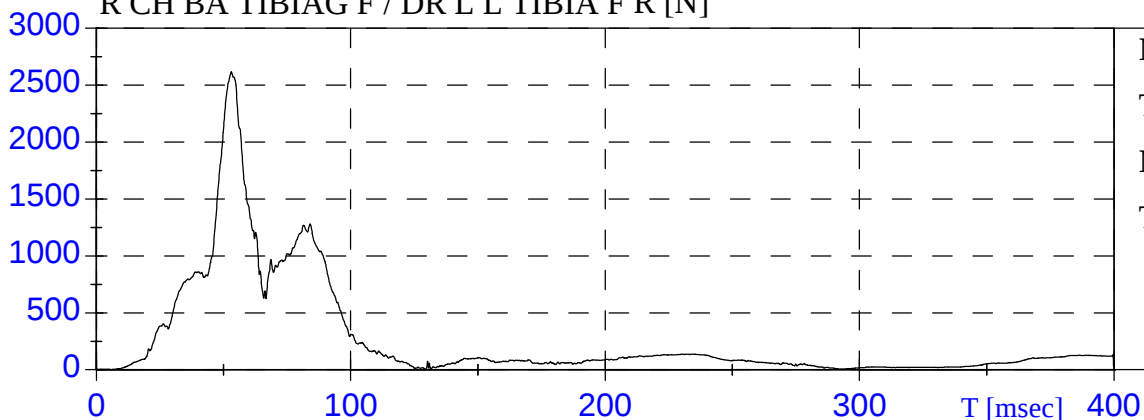
Max: 140.2 N
Tmax: 70.2 ms
Min: -219.8 N
Tmin: 40.3 ms
CFC : 1000
CAC : 11120

CH BA TIBIA G FZ / DR LO-L TIBIA FZ [N]

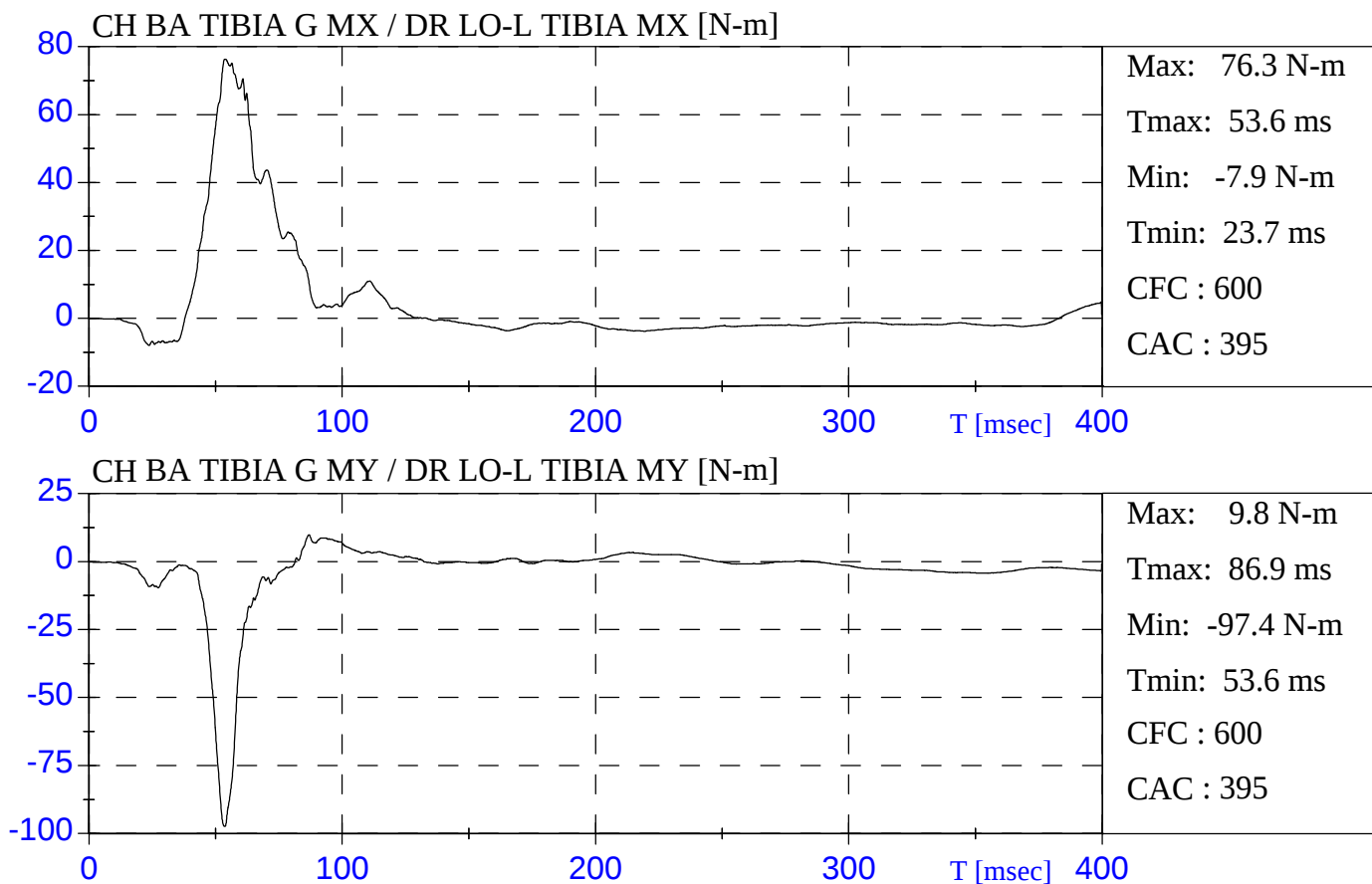


Max: 134.9 N
Tmax: 230.6 ms
Min: -2522.9 N
Tmin: 53.1 ms
CFC : 600
CAC : 11120

R CH BA TIBIAG F / DR L L TIBIA F R [N]

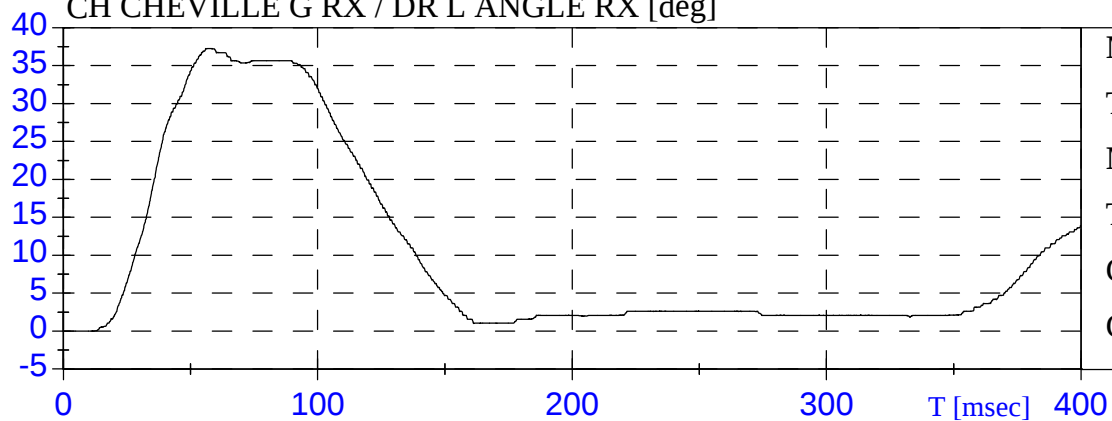


Max: 2619.1 N
Tmax: 53.1 ms
Min: 0.1 N
Tmin: -10.0 ms



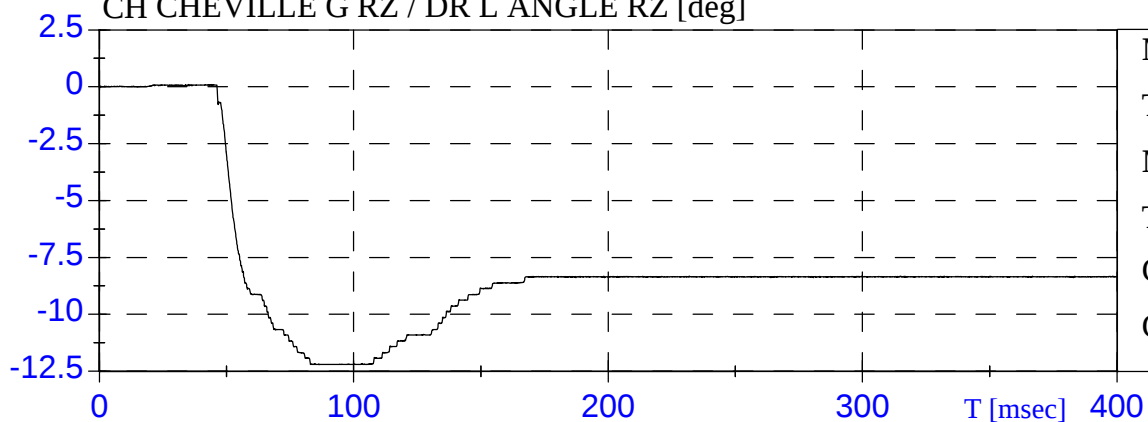


CH CHEVILLE G RX / DR L ANGLE RX [deg]

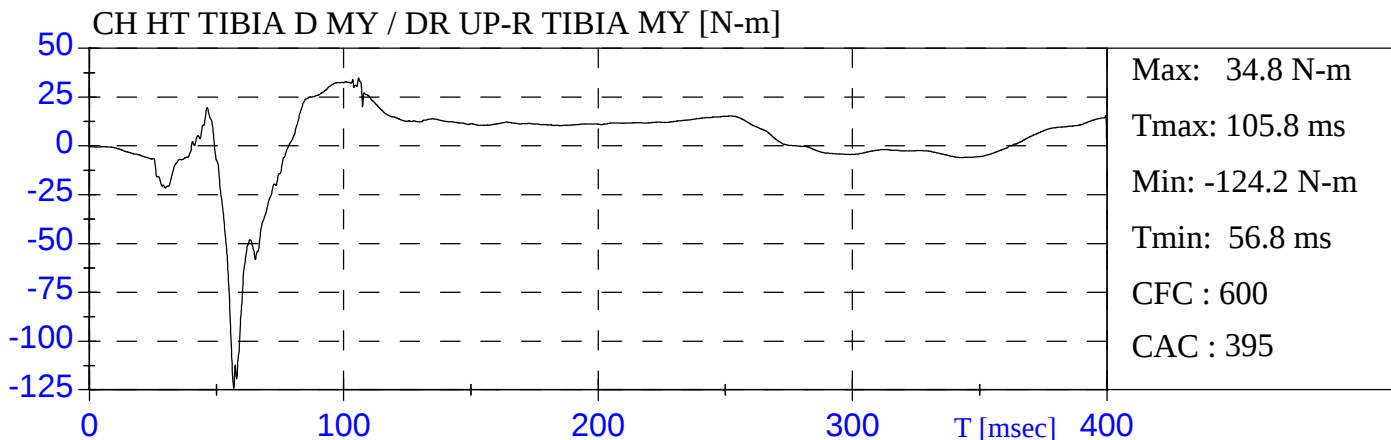
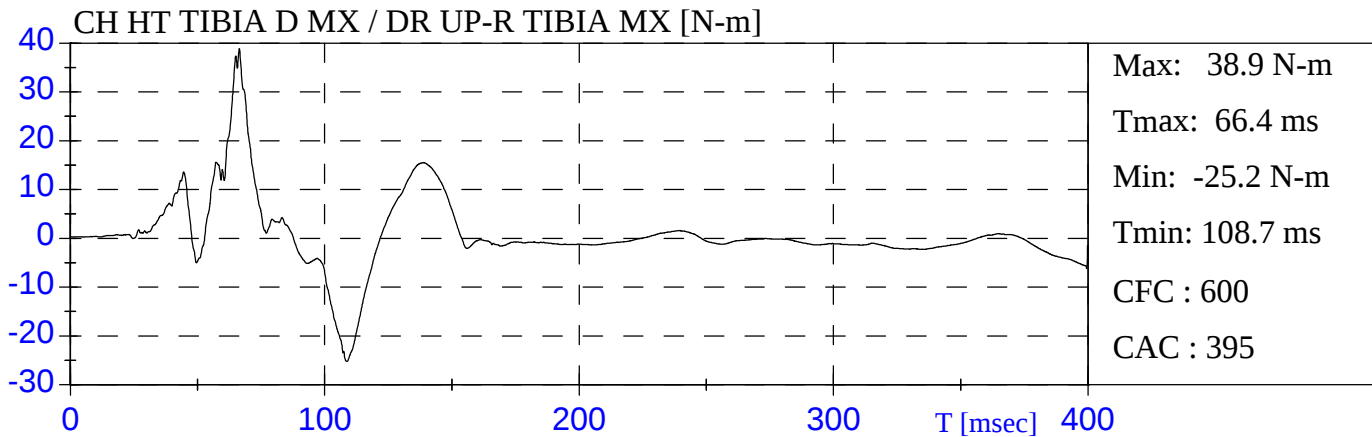
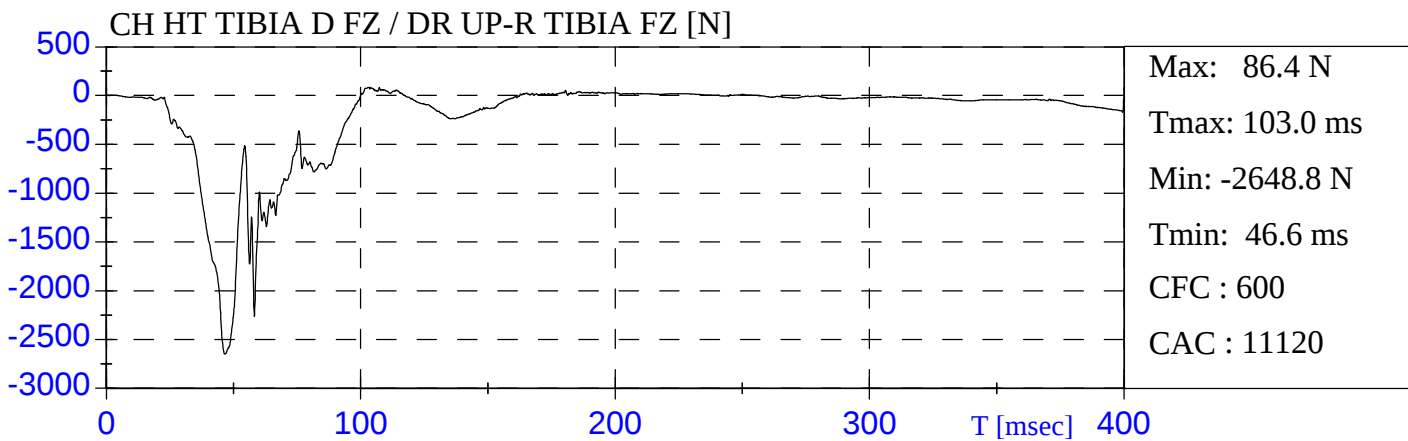
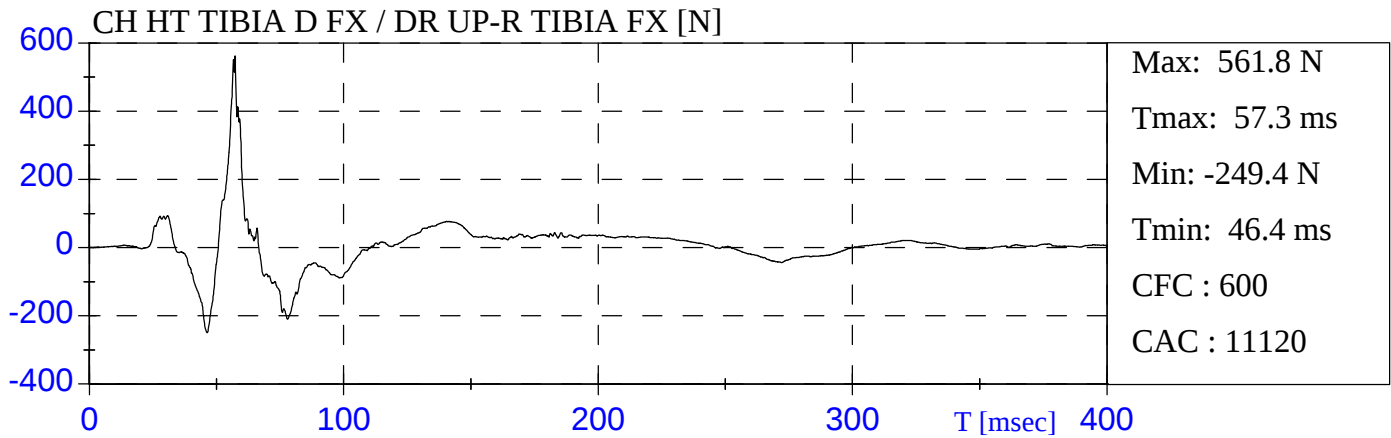


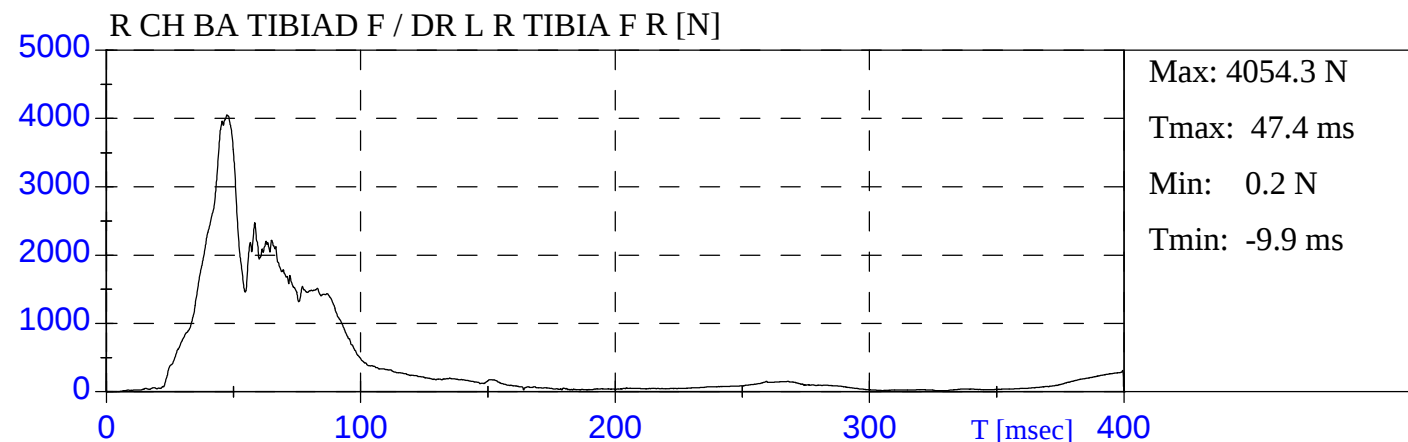
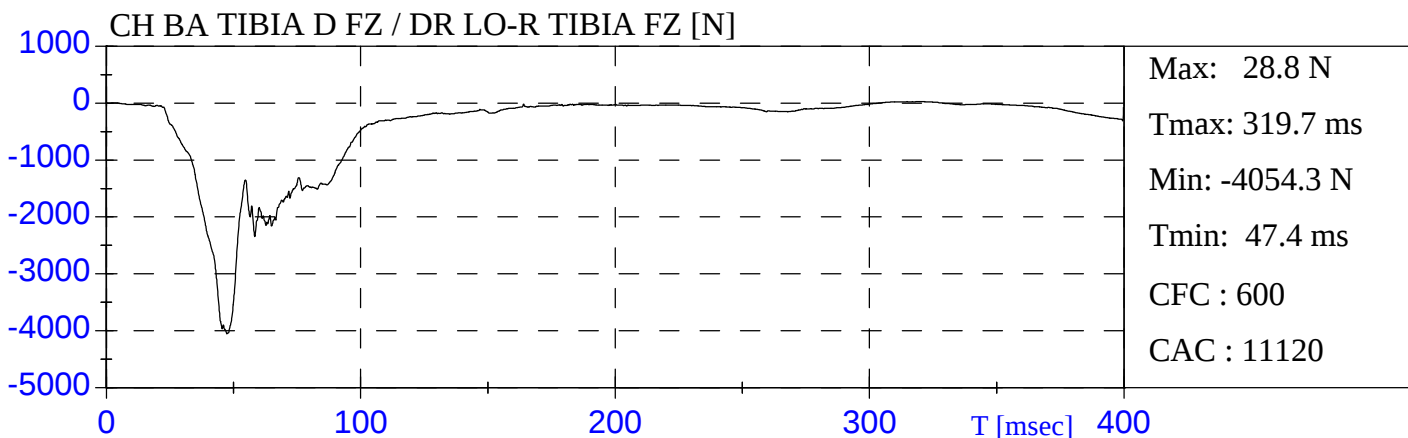
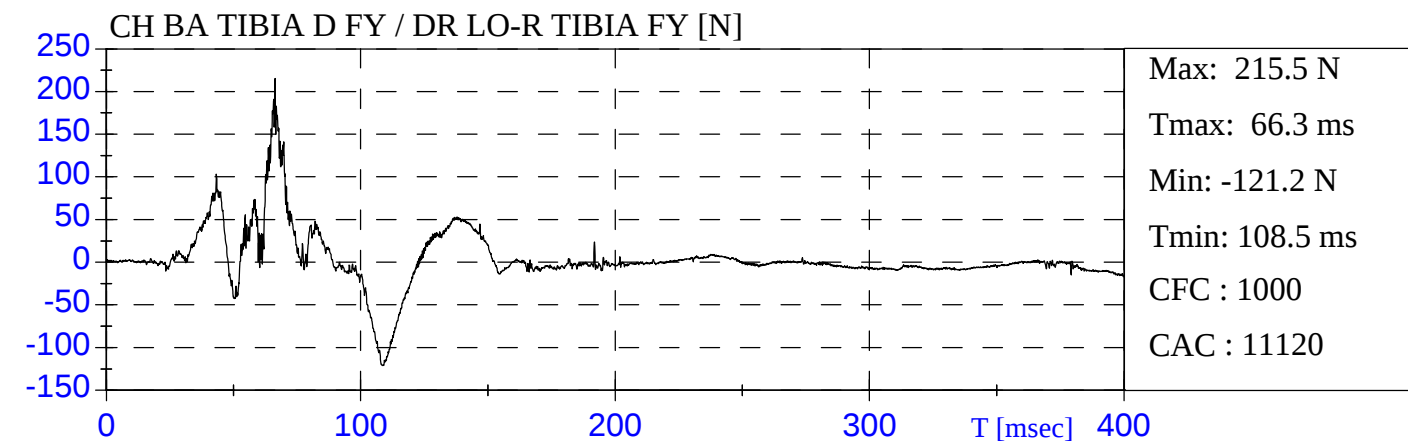
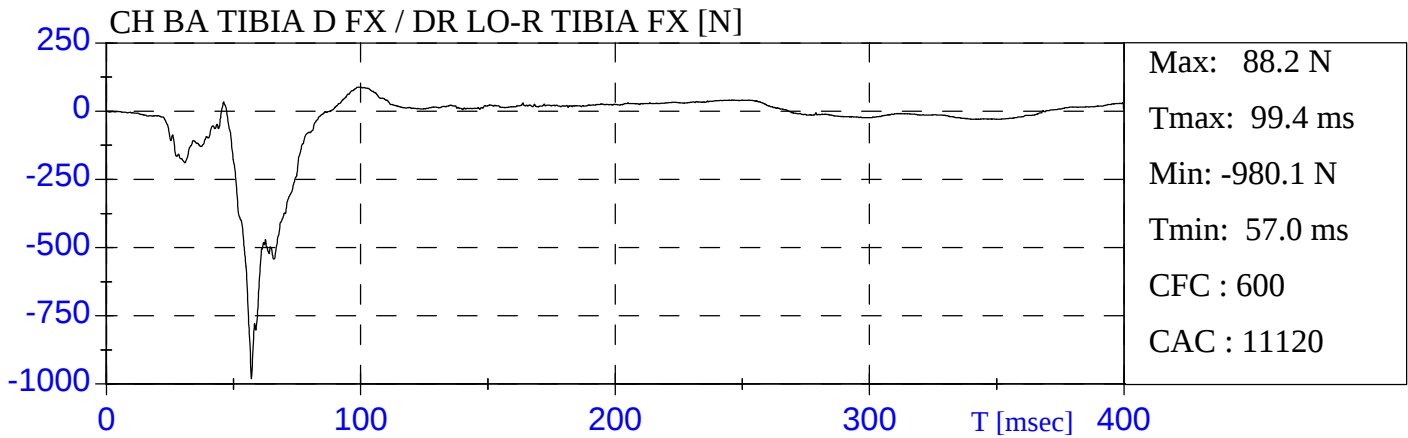
Max: 37.3 deg
Tmax: 56.1 ms
Min: -0.0 deg
Tmin: -1.4 ms
CFC : 1000
CAC : 100

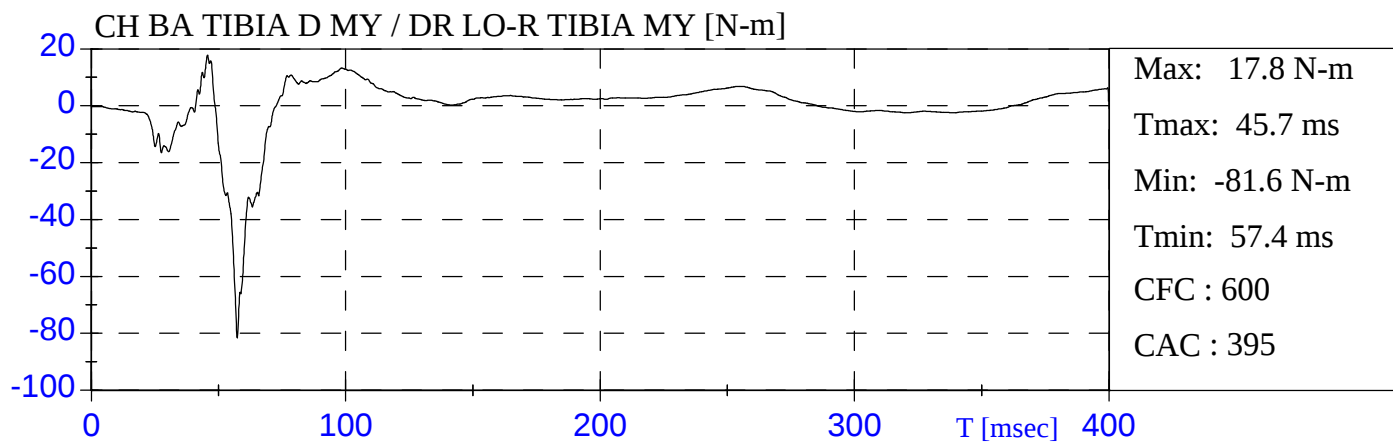
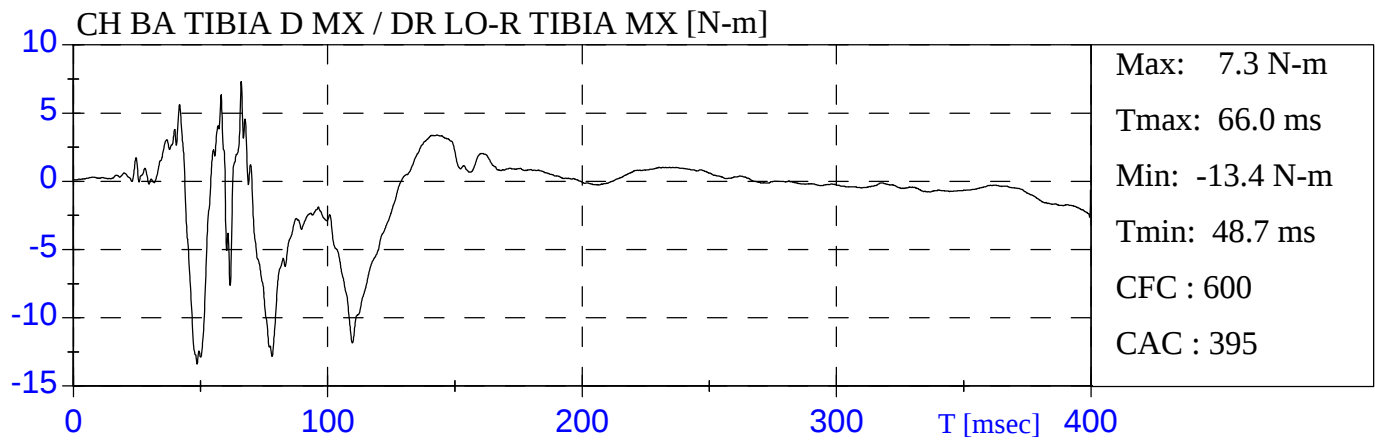
CH CHEVILLE G RZ / DR L ANGLE RZ [deg]

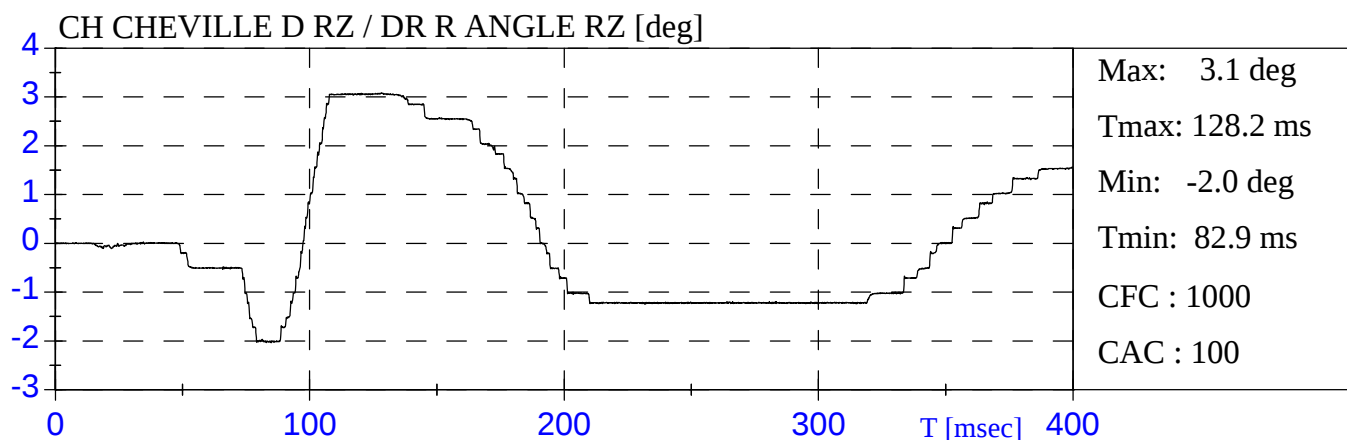
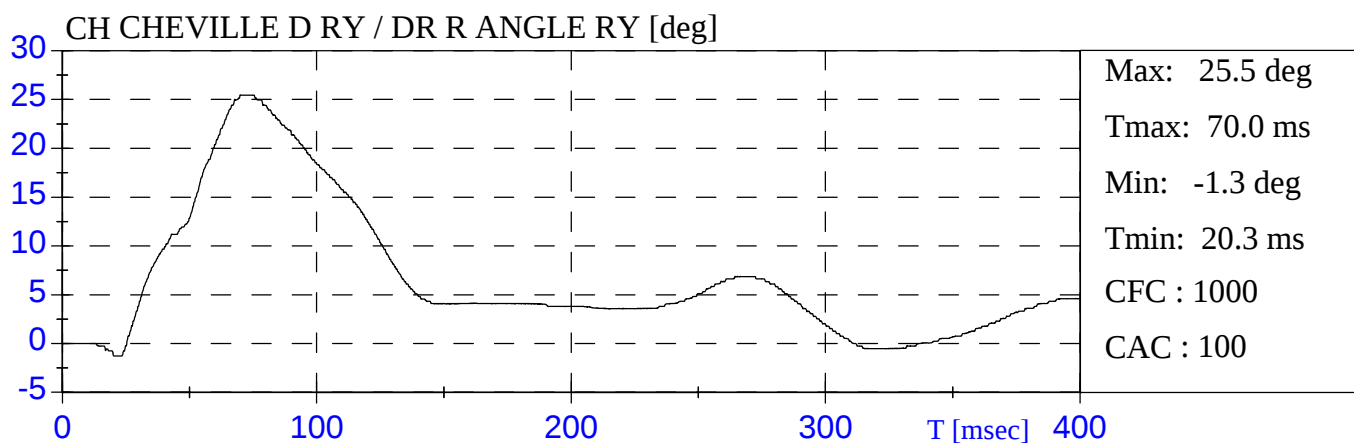
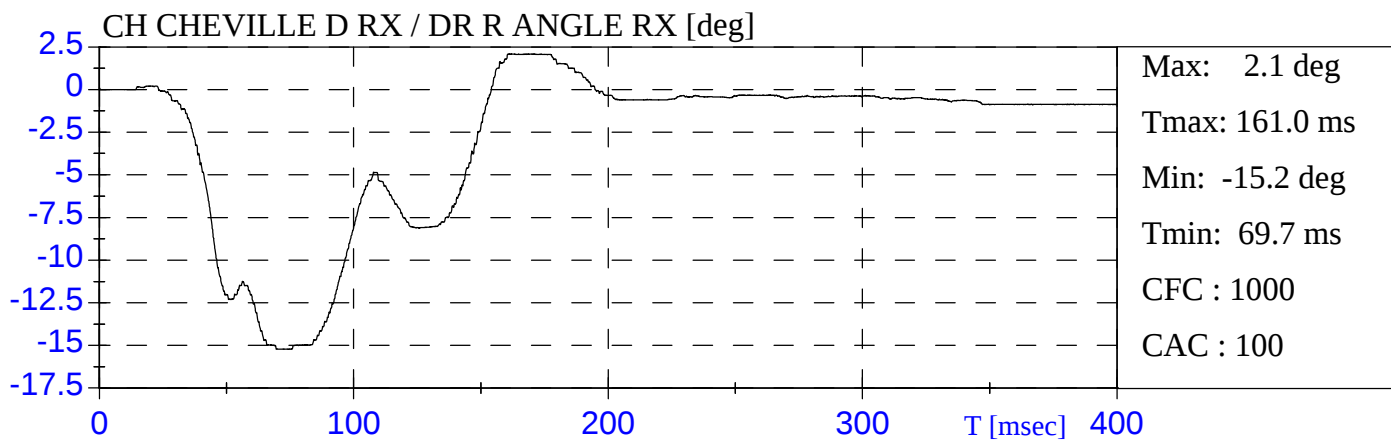


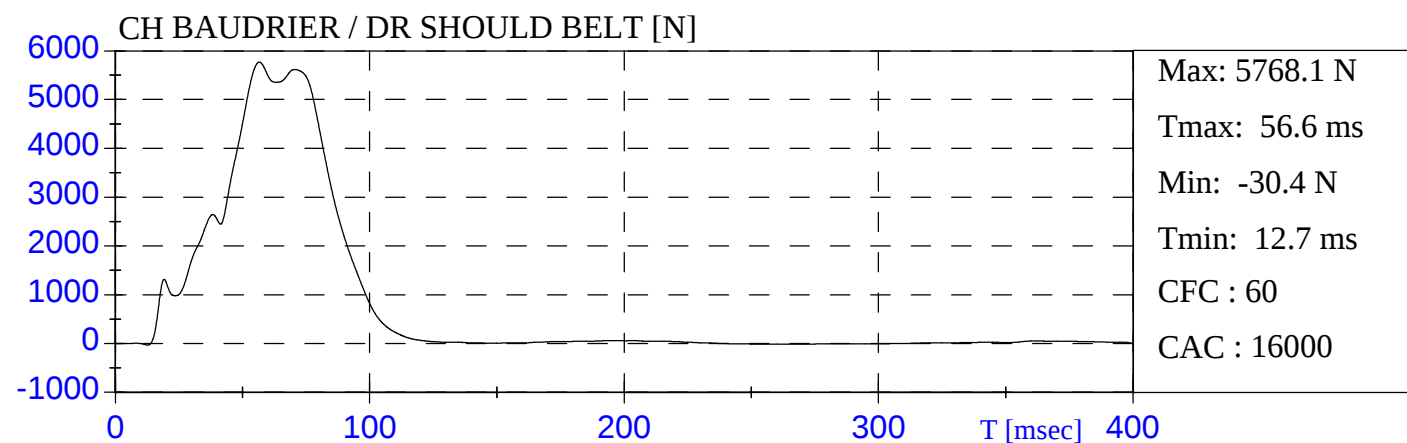
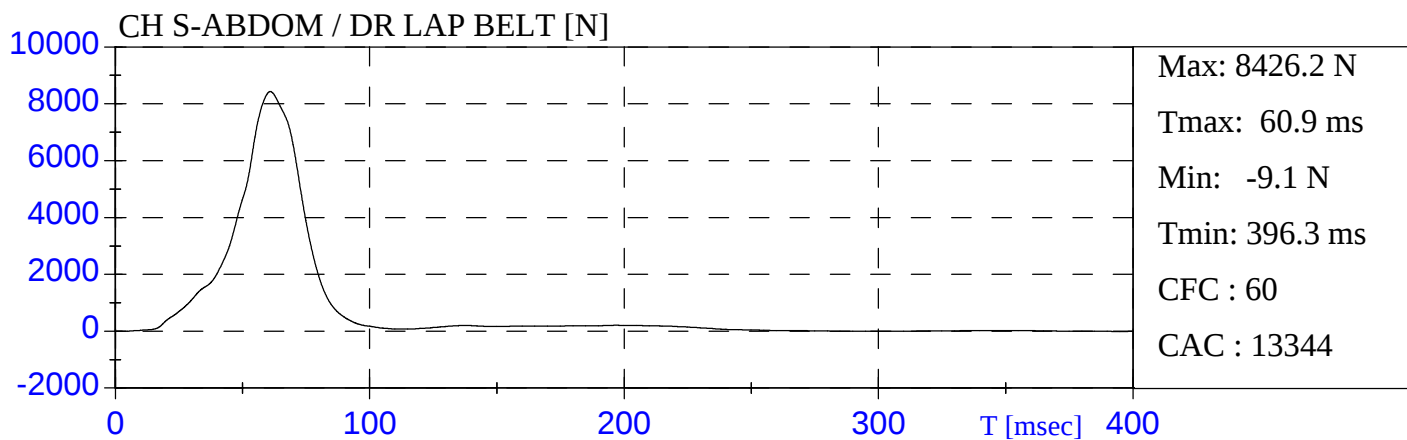
Max: 0.1 deg
Tmax: 35.1 ms
Min: -12.2 deg
Tmin: 86.3 ms
CFC : 1000
CAC : 100

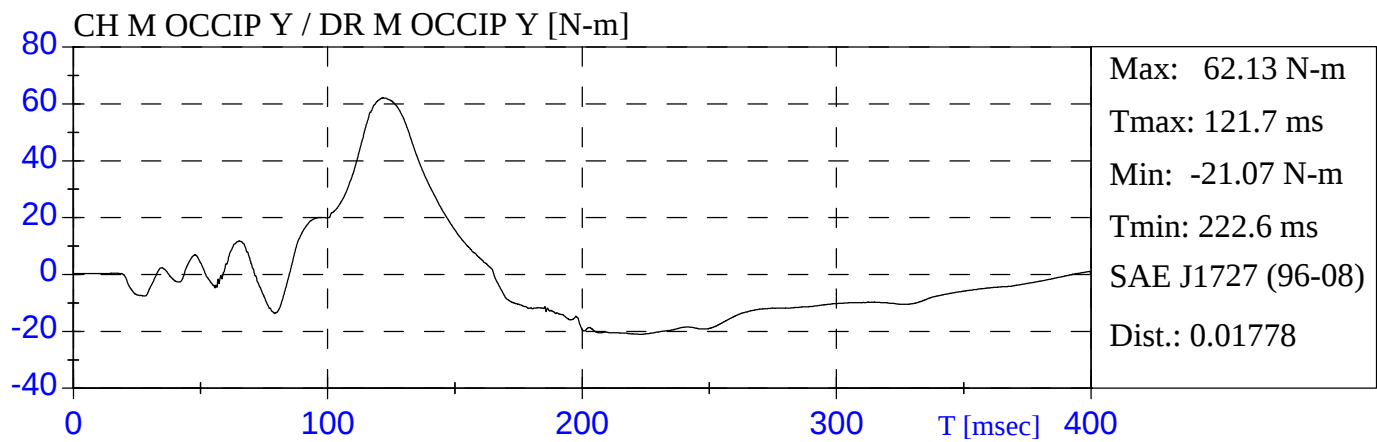


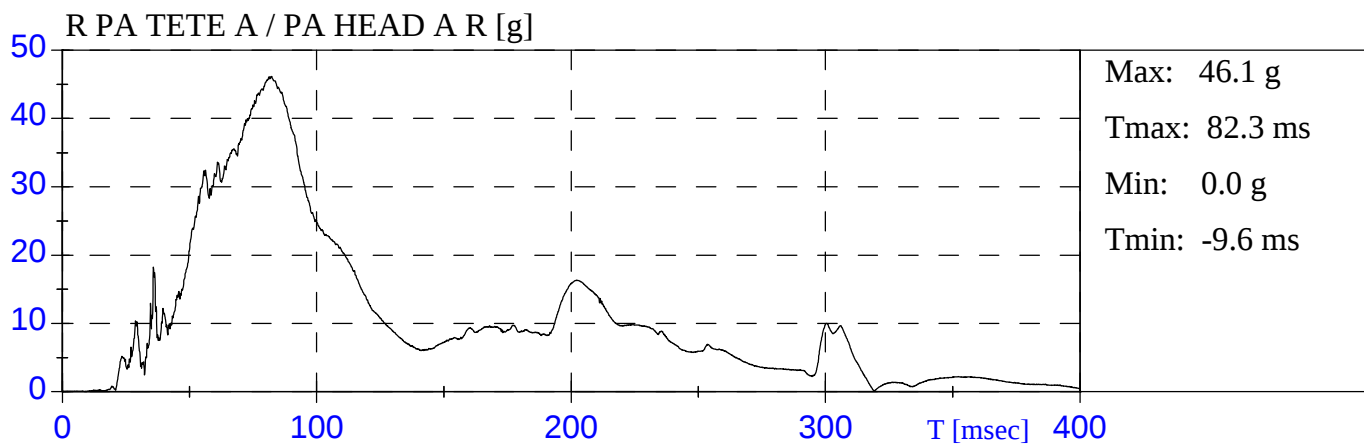
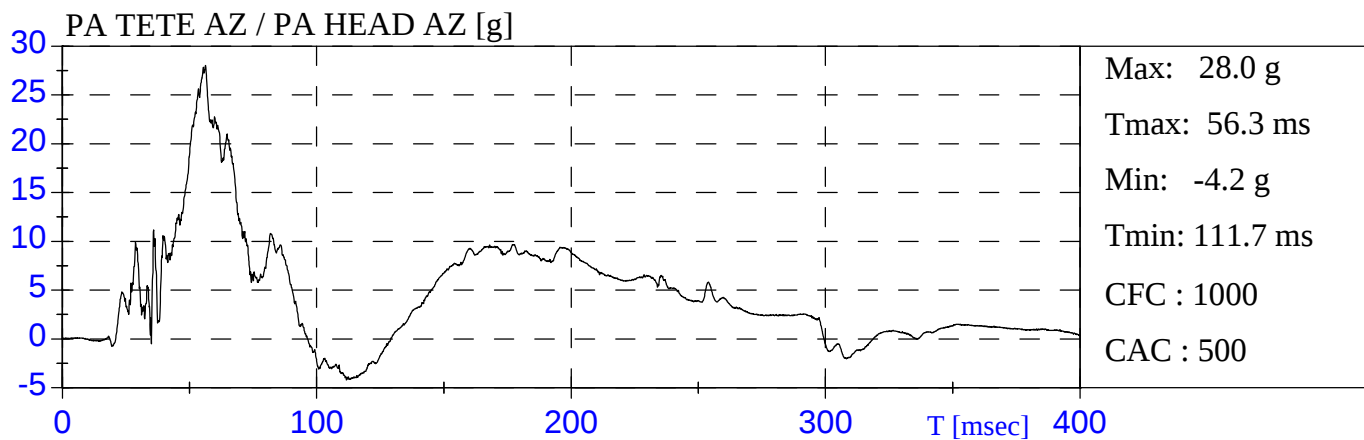
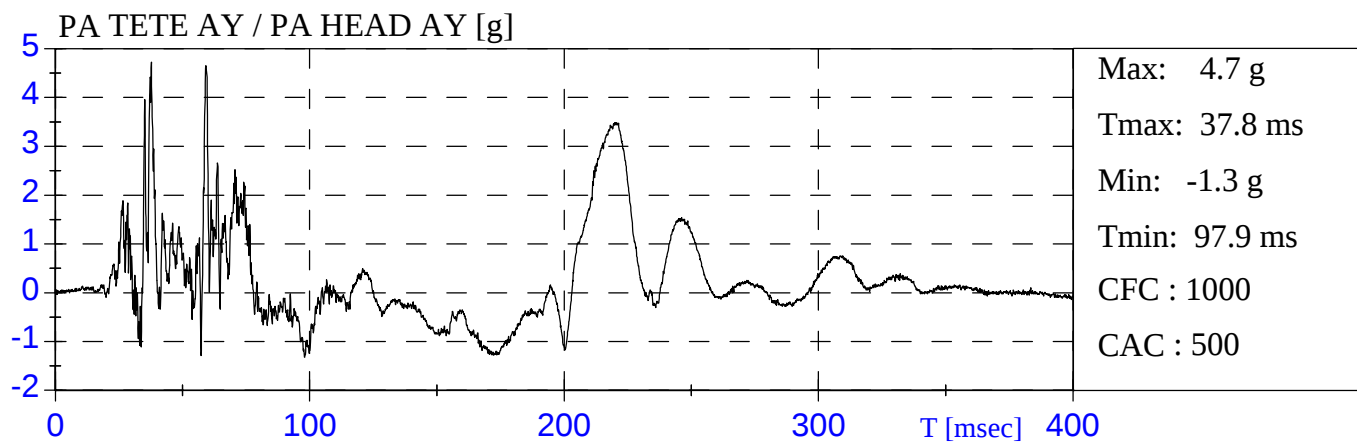
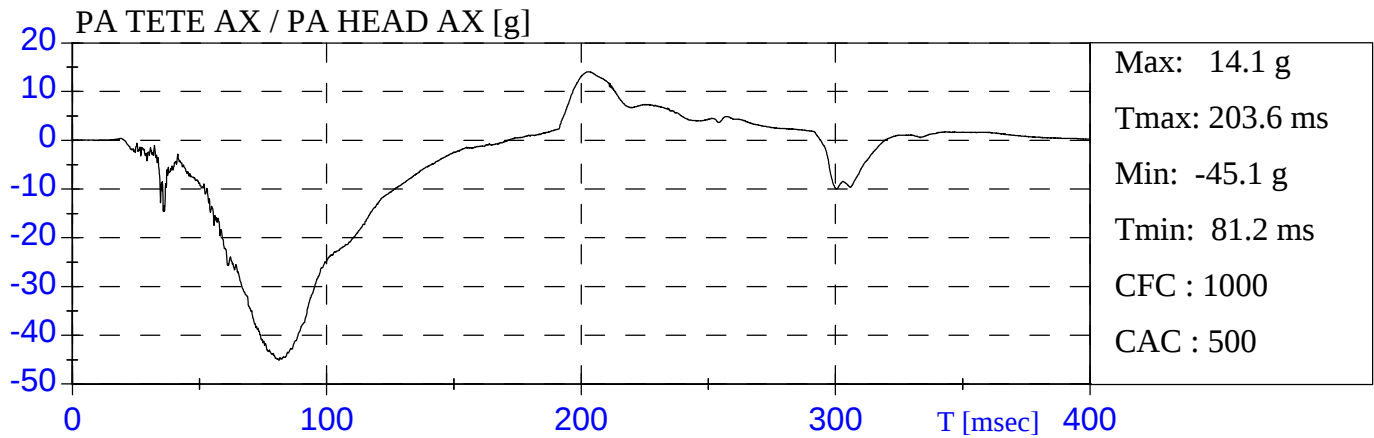












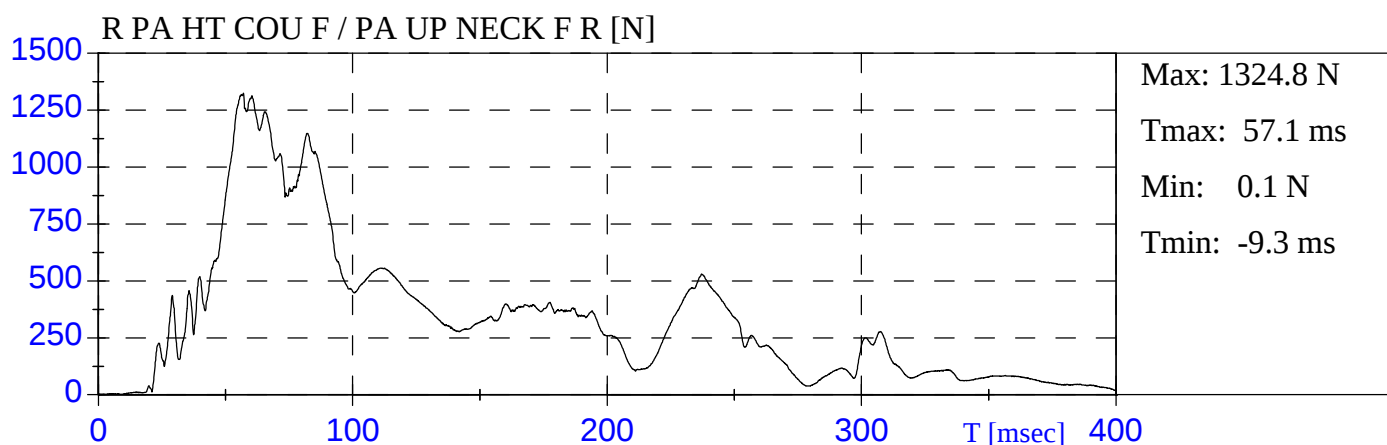
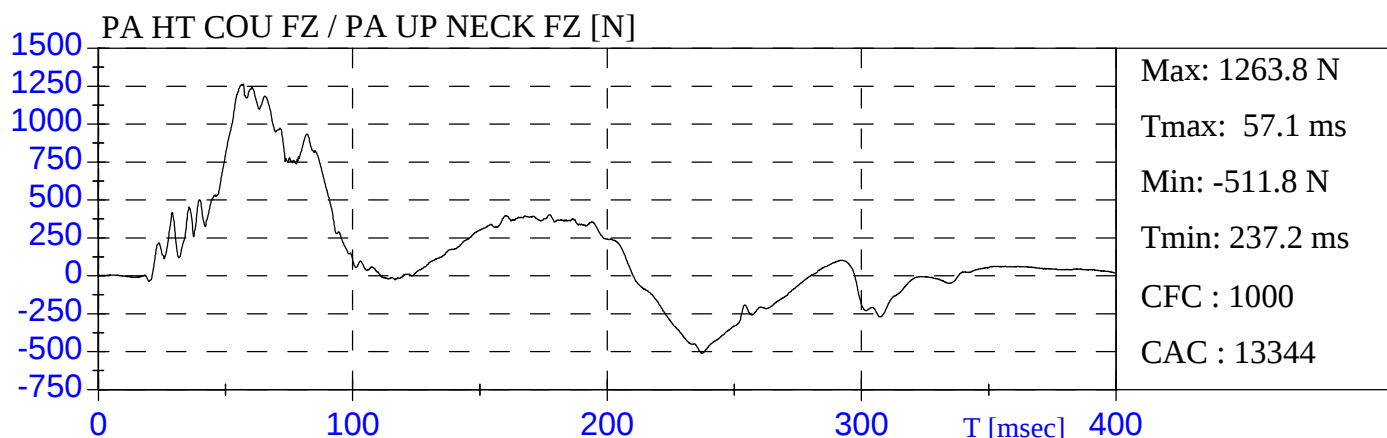
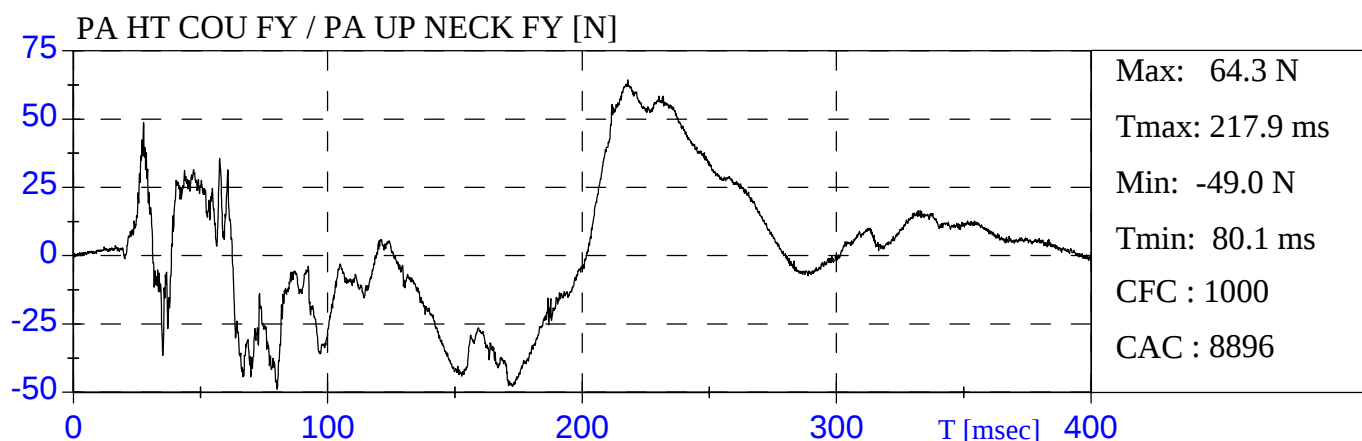
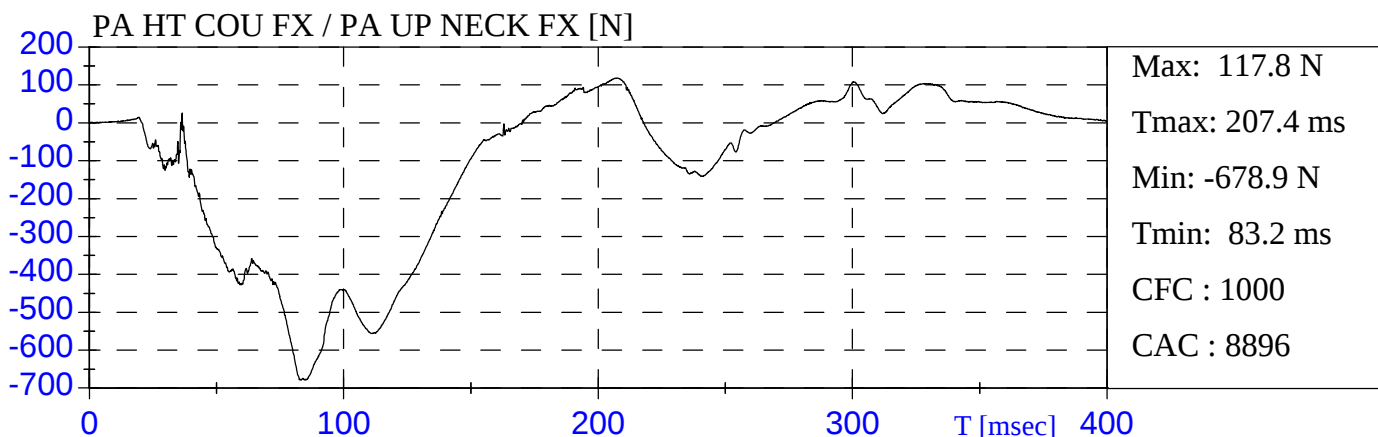


COLLISION FRONTALE
FRONTAL CRASH

Date: 2004-04-01

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N° TC / TC No.: TC04-132



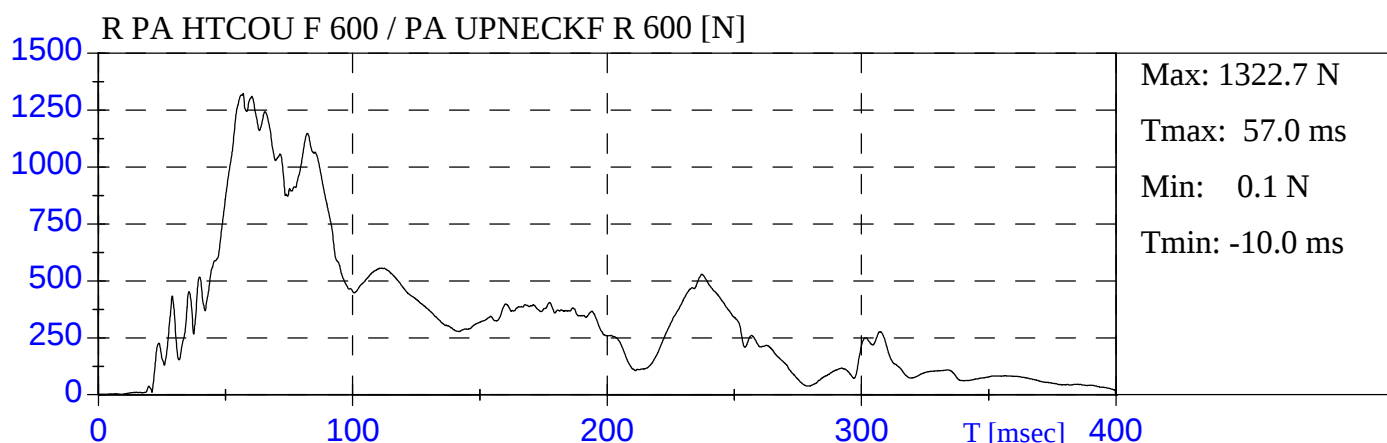
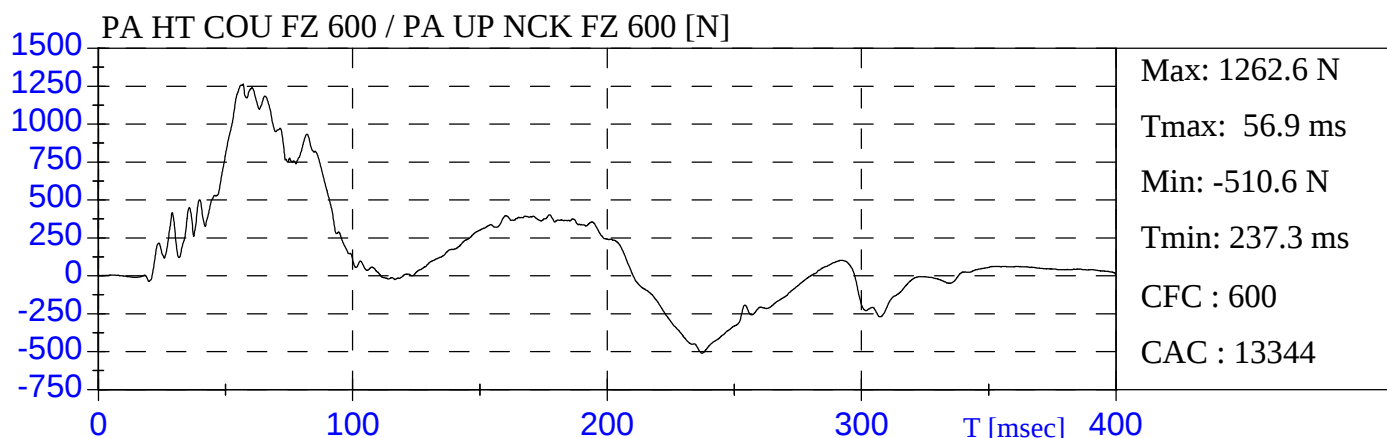
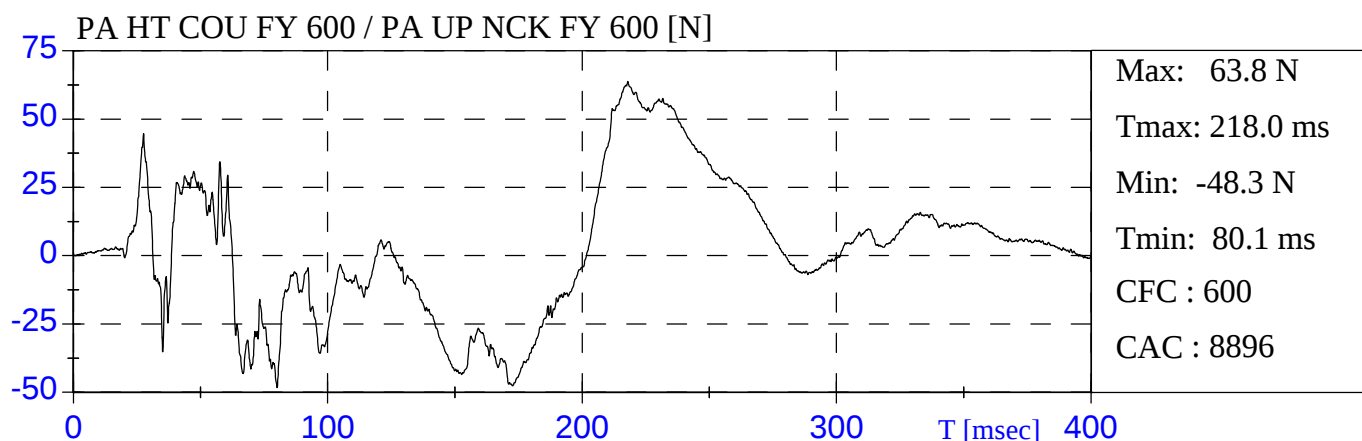
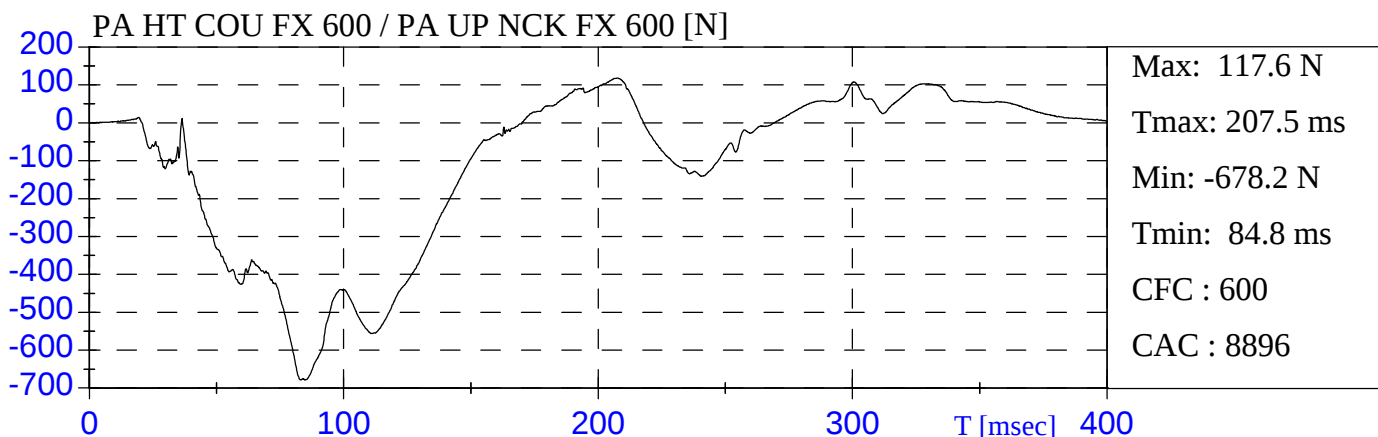


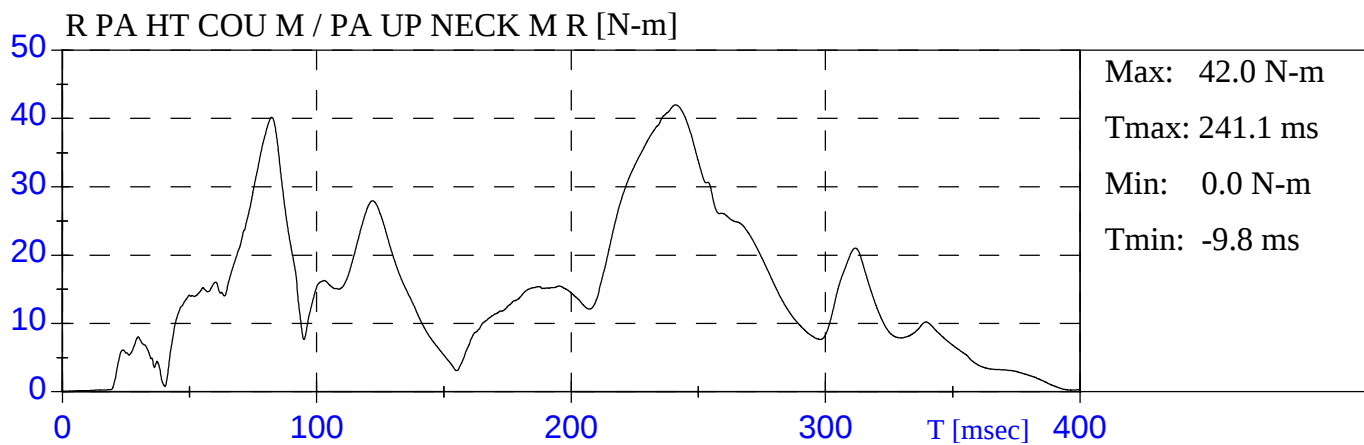
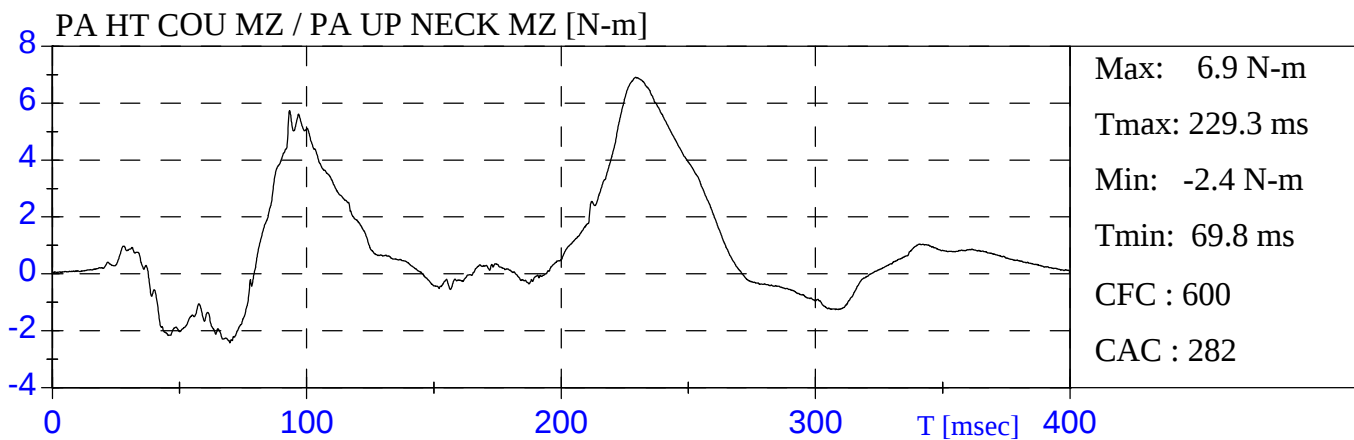
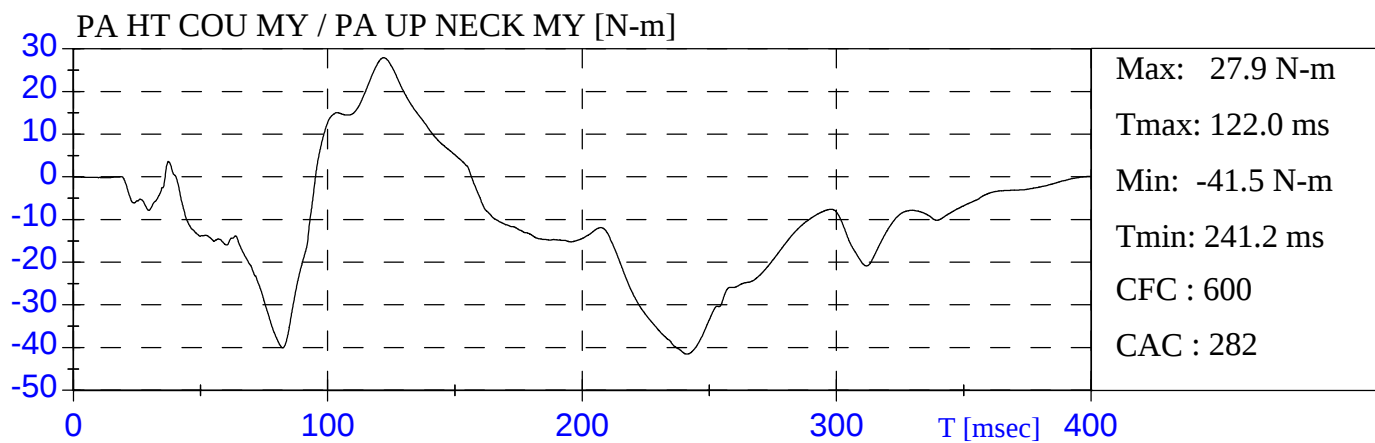
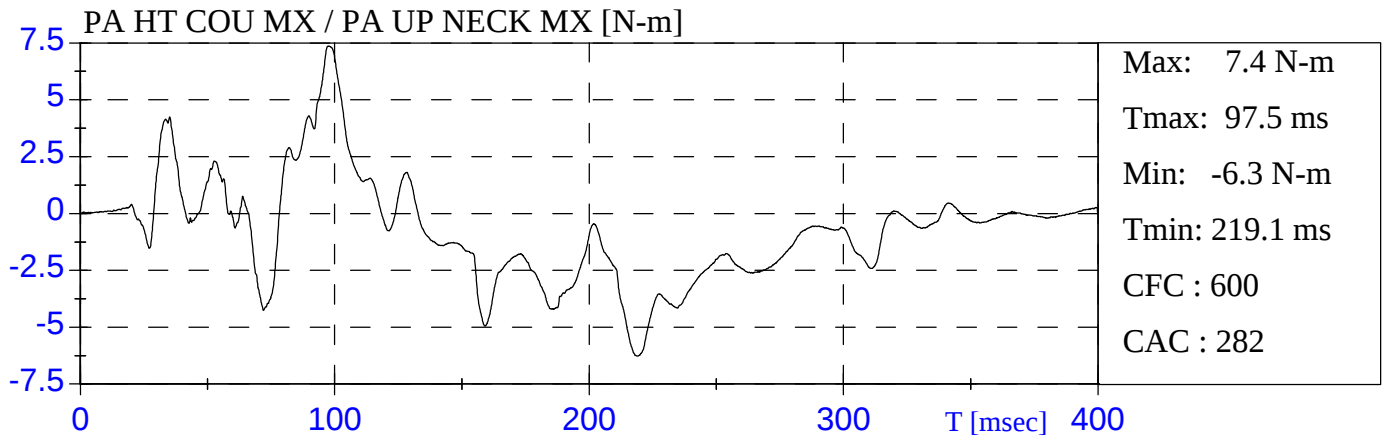
COLLISION FRONTALE
FRONTAL CRASH

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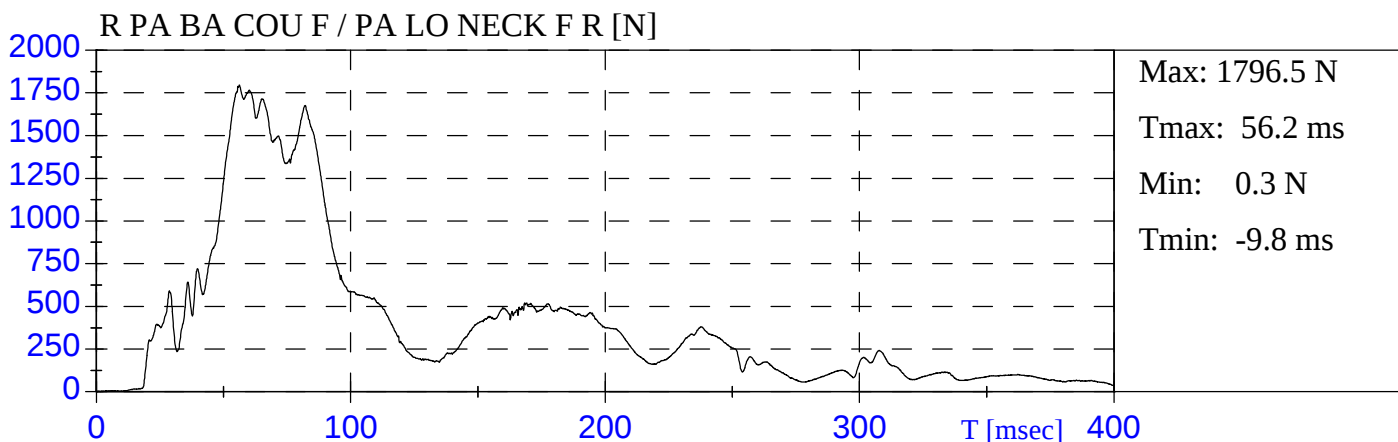
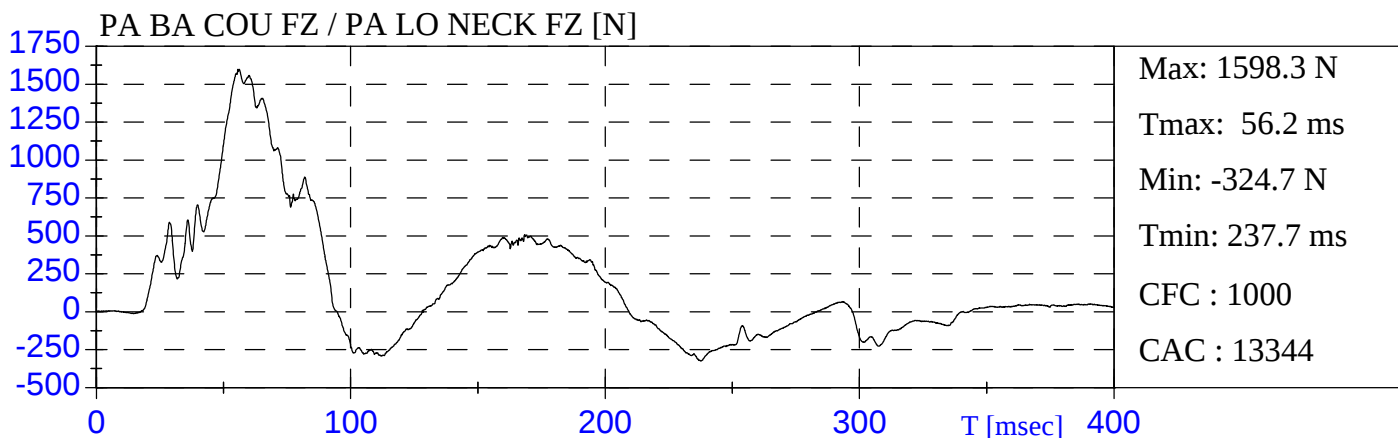
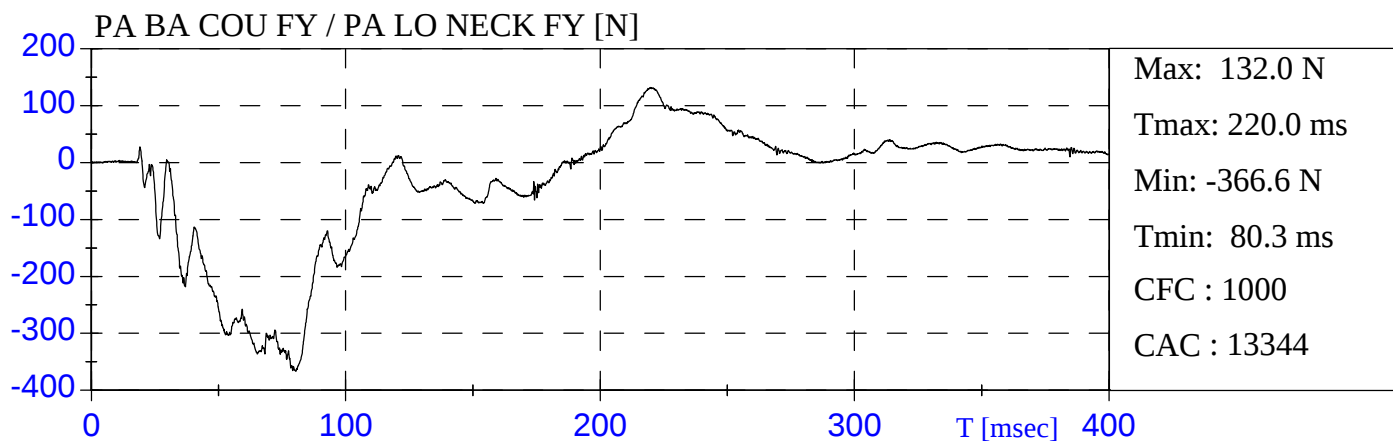
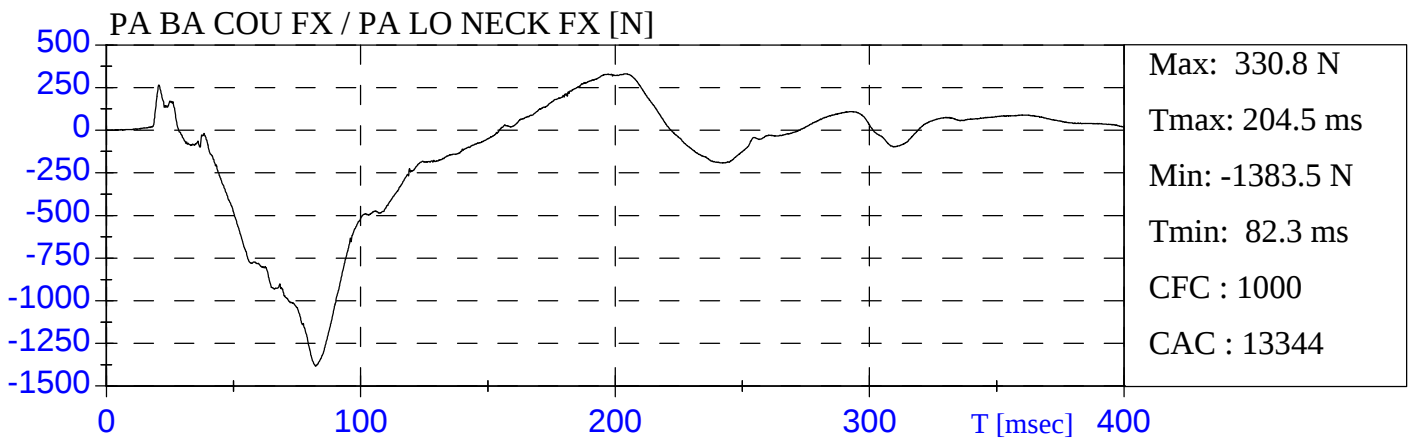


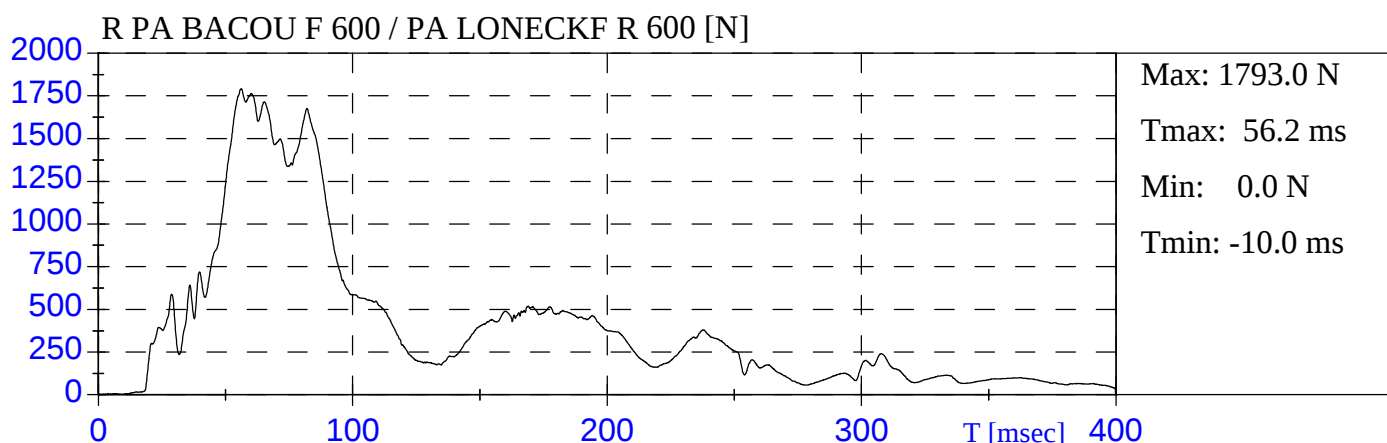
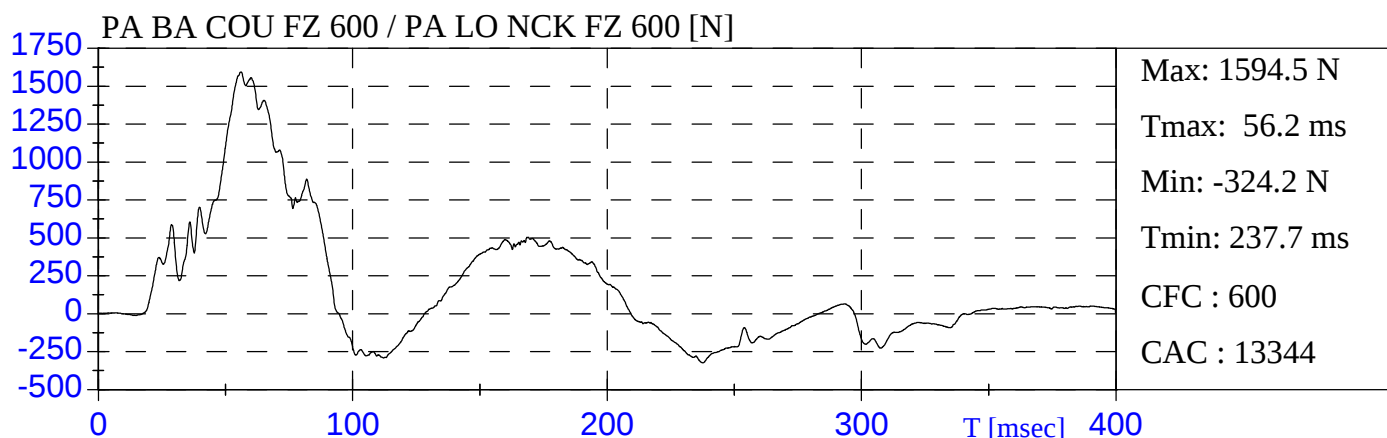
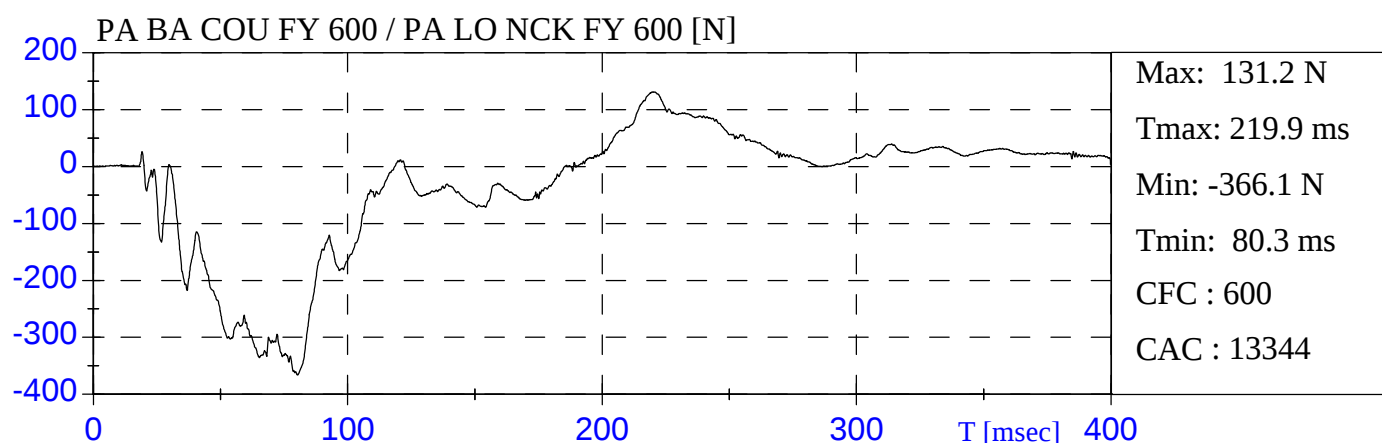
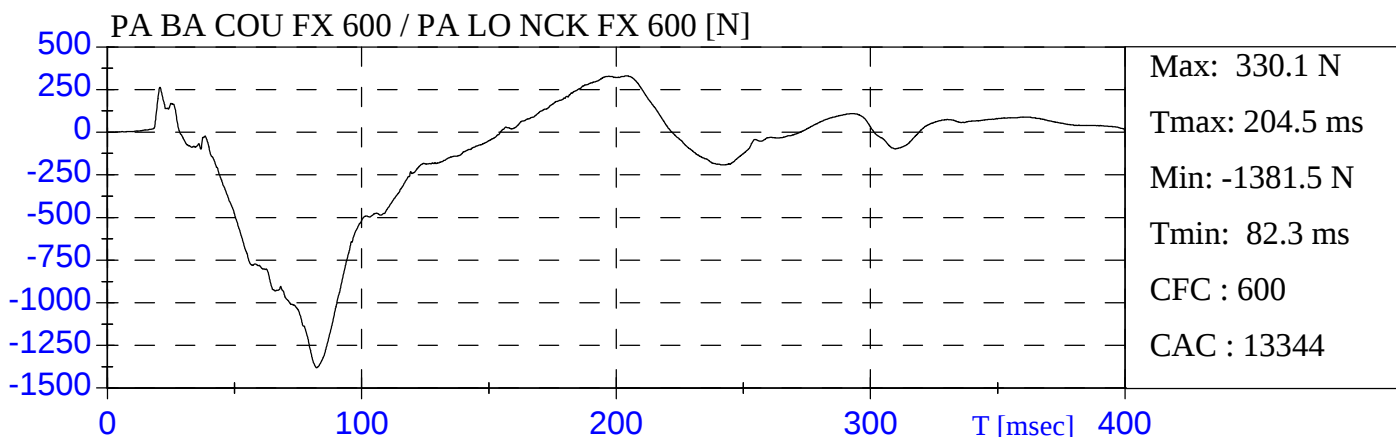
COLLISION FRONTALE
FRONTAL CRASH

Date: 2004-04-01

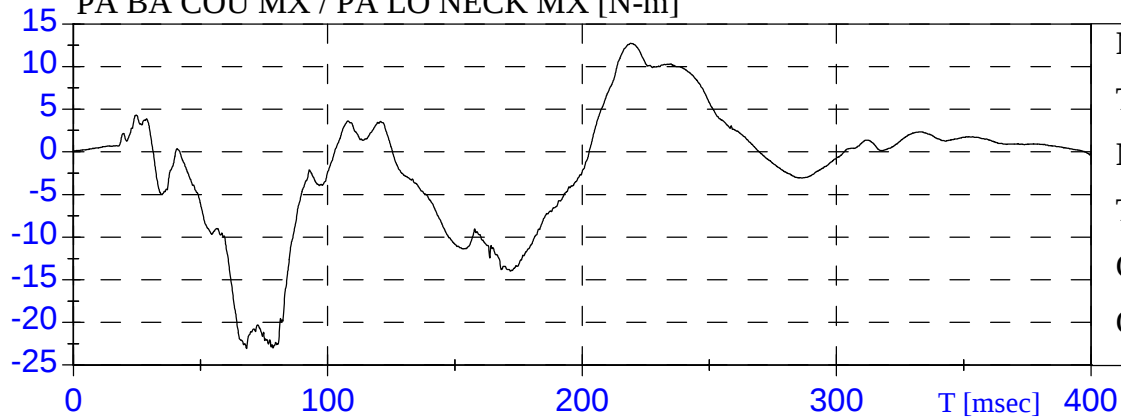
NISSAN 350Z 2004

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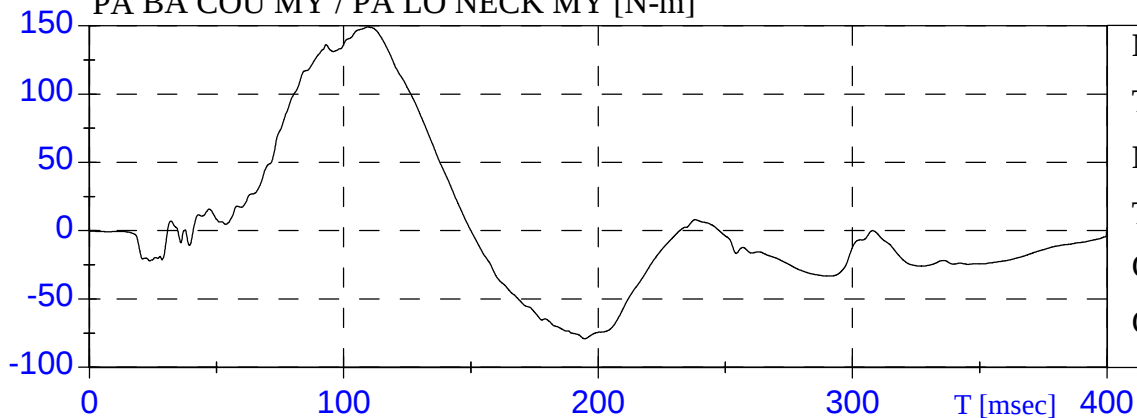


PA BA COU MX / PA LO NECK MX [N-m]



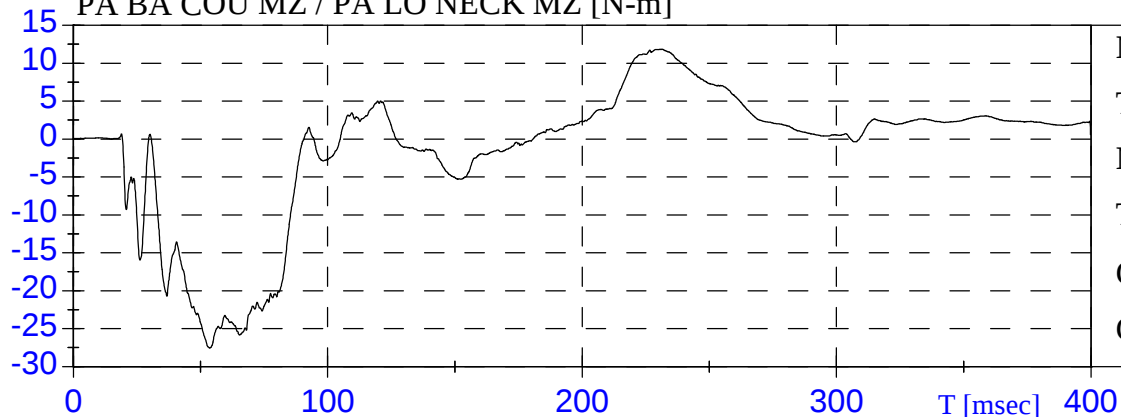
Max: 12.7 N-m
Tmax: 219.1 ms
Min: -23.0 N-m
Tmin: 68.1 ms
CFC : 600
CAC : 451

PA BA COU MY / PA LO NECK MY [N-m]



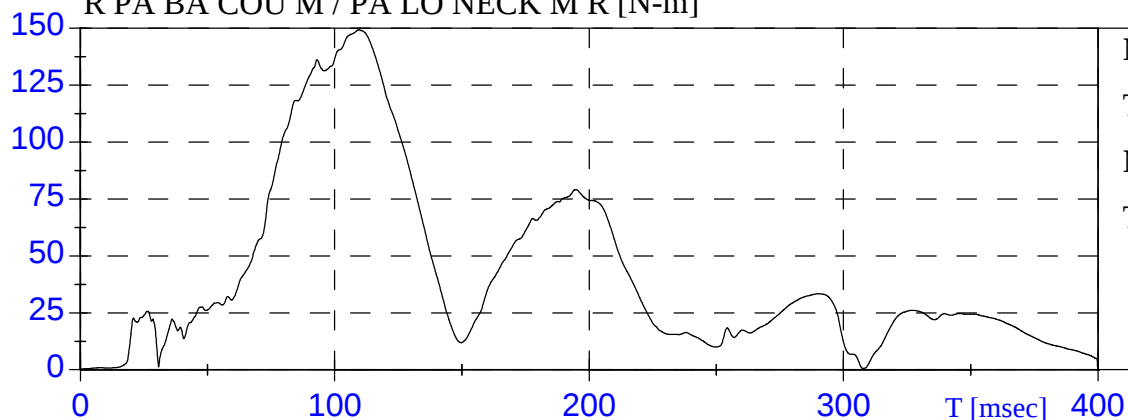
Max: 149.2 N-m
Tmax: 109.6 ms
Min: -79.0 N-m
Tmin: 194.7 ms
CFC : 600
CAC : 451

PA BA COU MZ / PA LO NECK MZ [N-m]

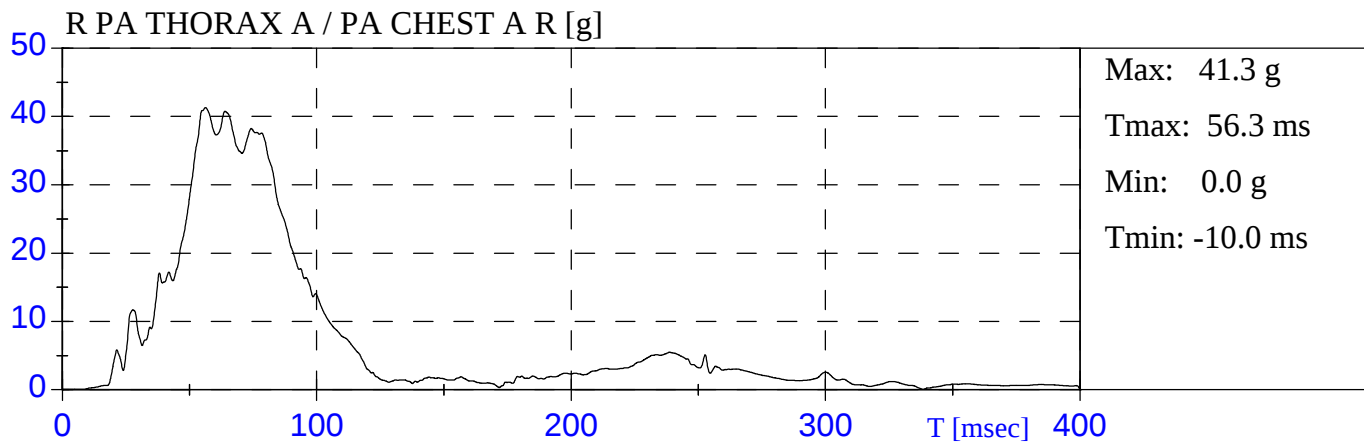
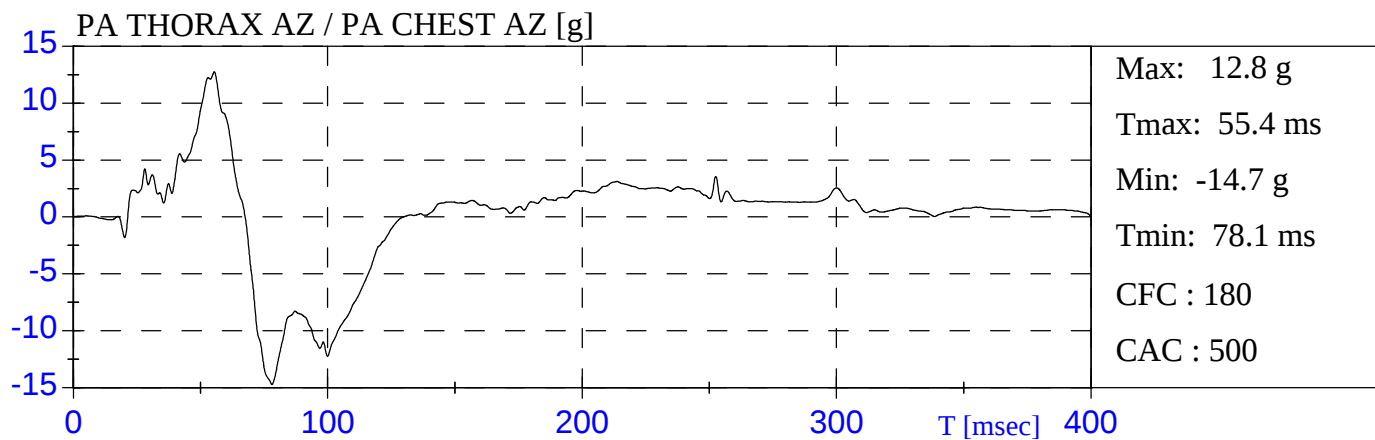
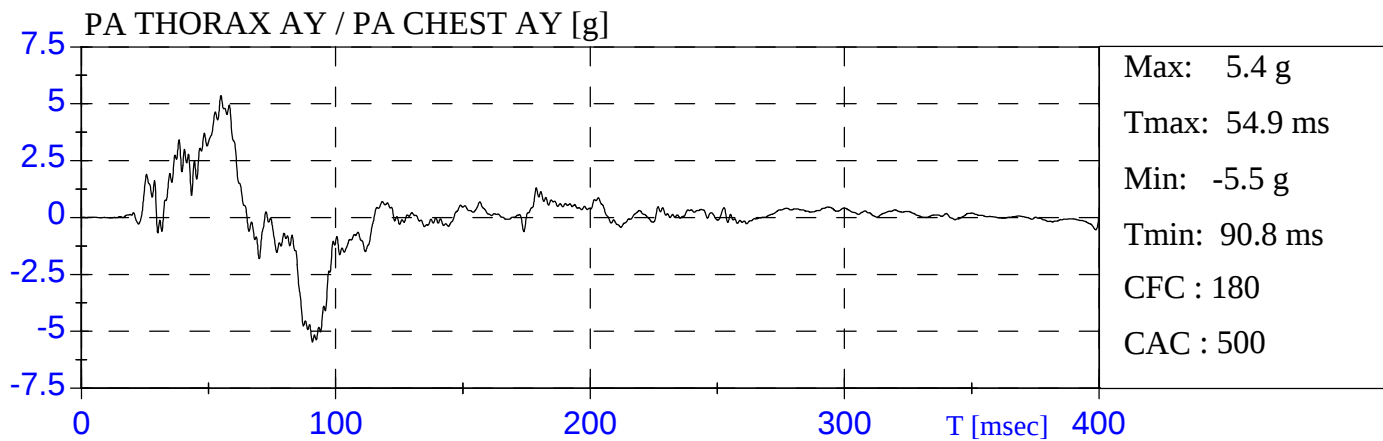
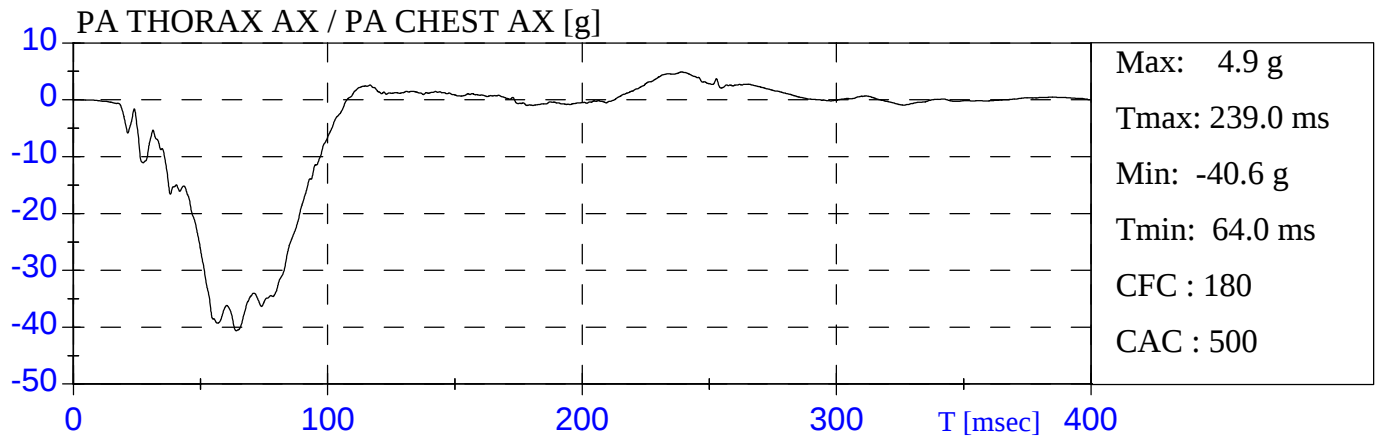


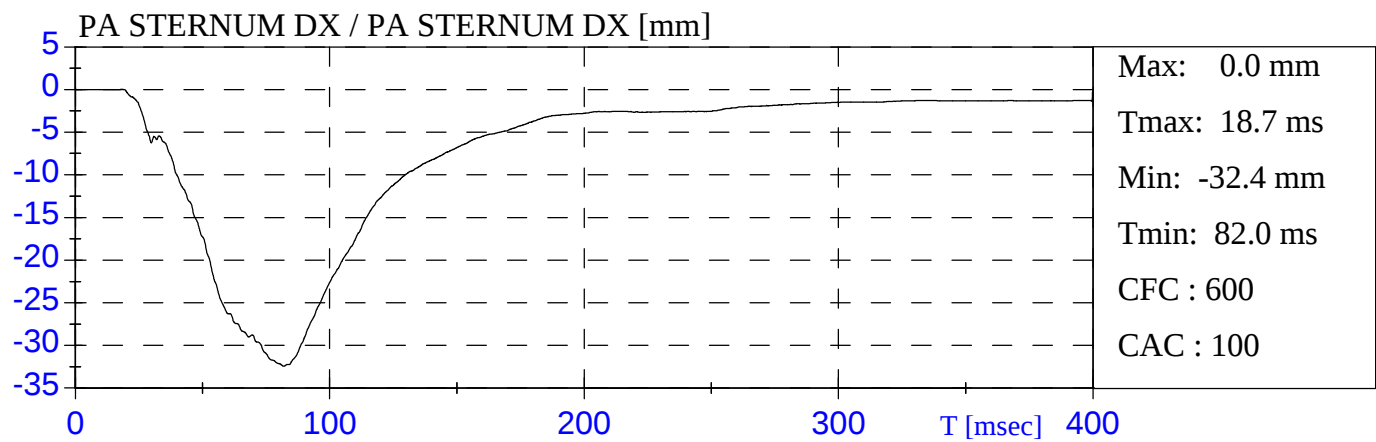
Max: 11.8 N-m
Tmax: 230.7 ms
Min: -27.5 N-m
Tmin: 53.6 ms
CFC : 600
CAC : 451

R PA BA COU M / PA LO NECK M R [N-m]



Max: 149.3 N-m
Tmax: 109.6 ms
Min: 0.0 N-m
Tmin: -10.0 ms





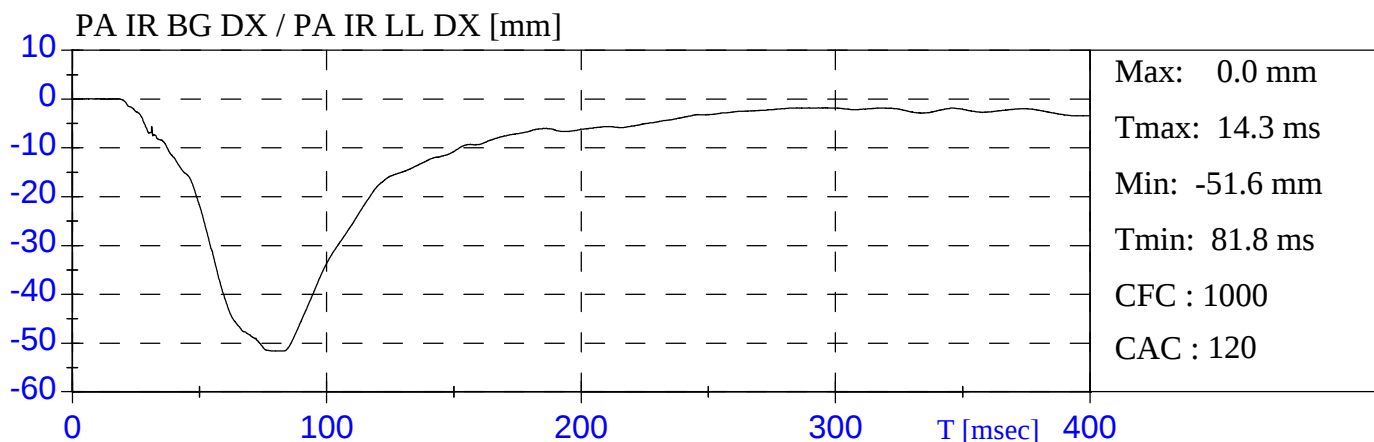
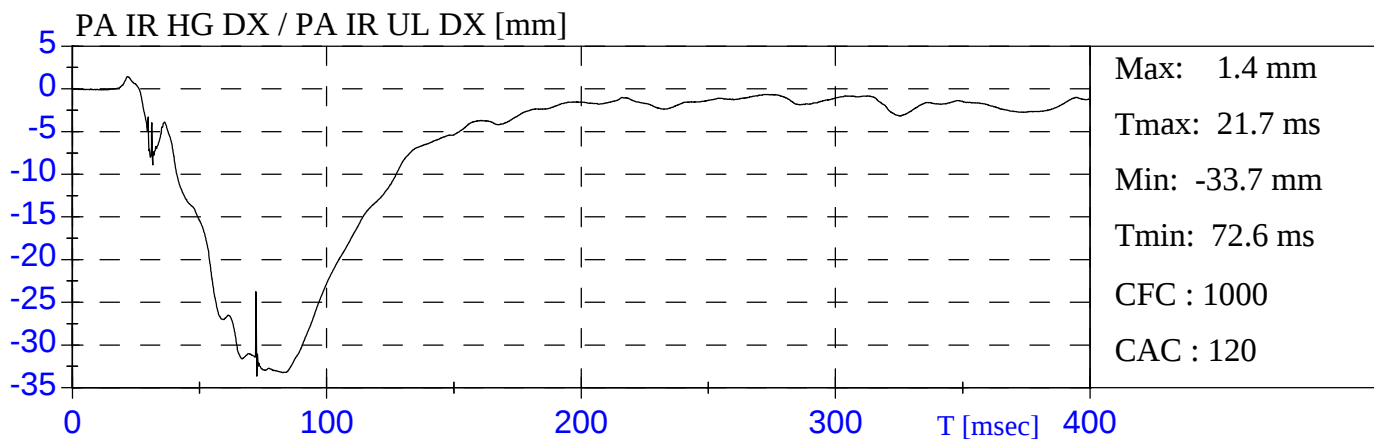
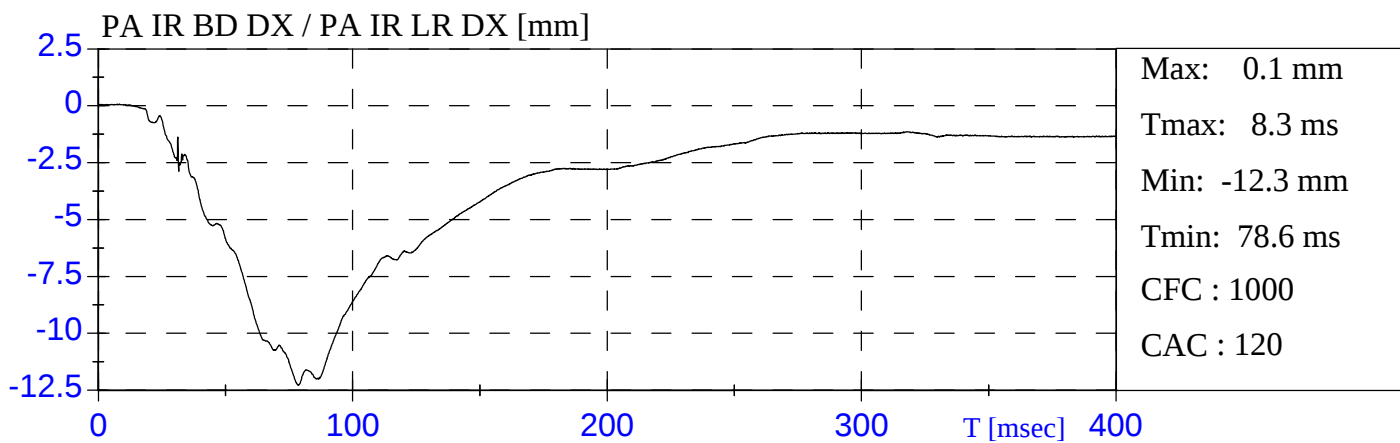
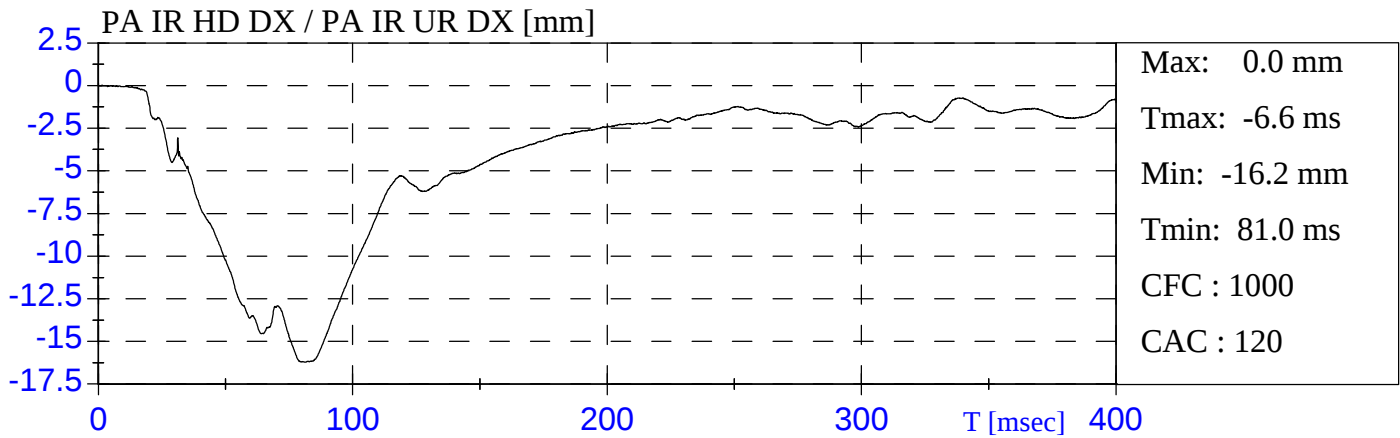


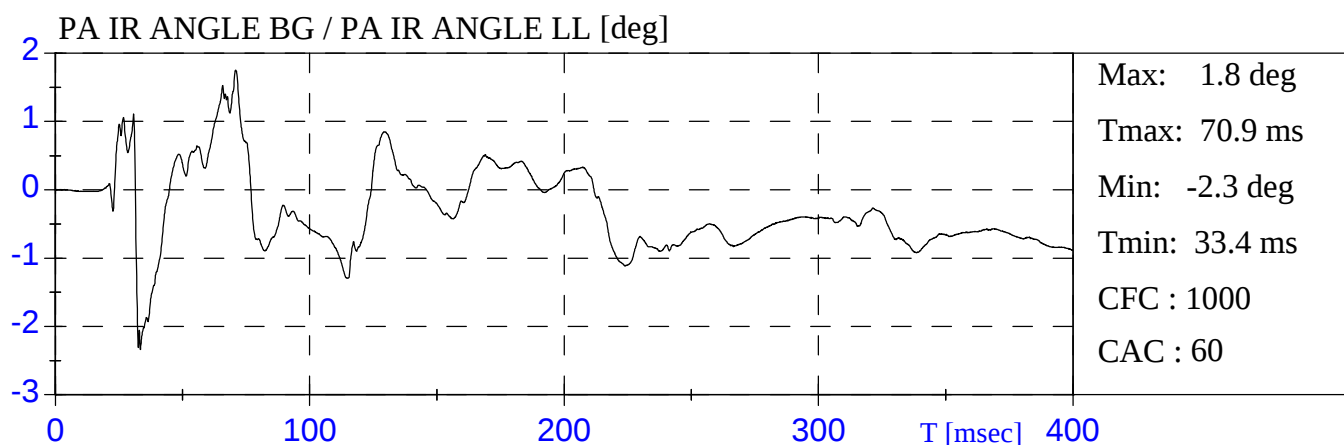
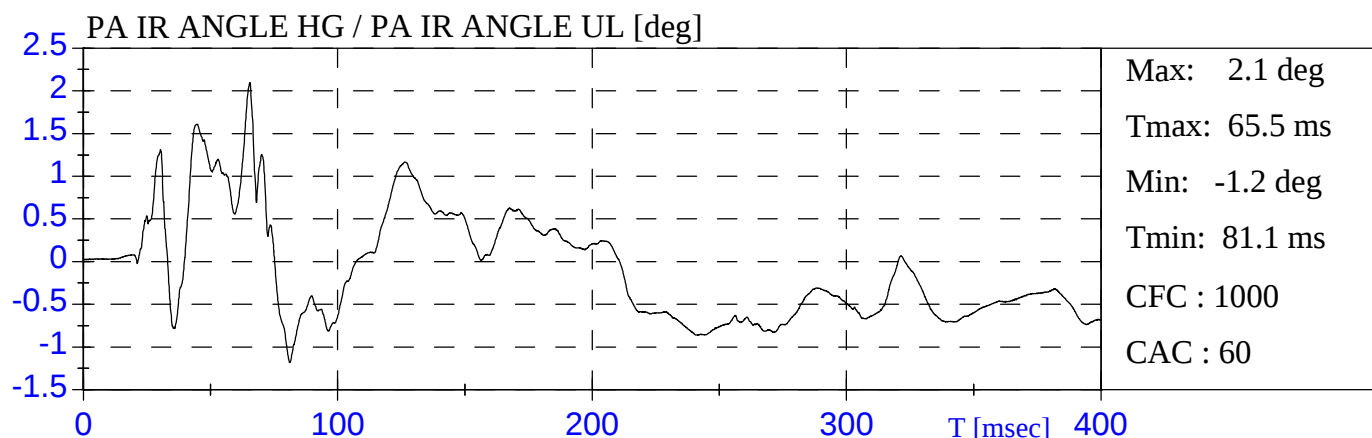
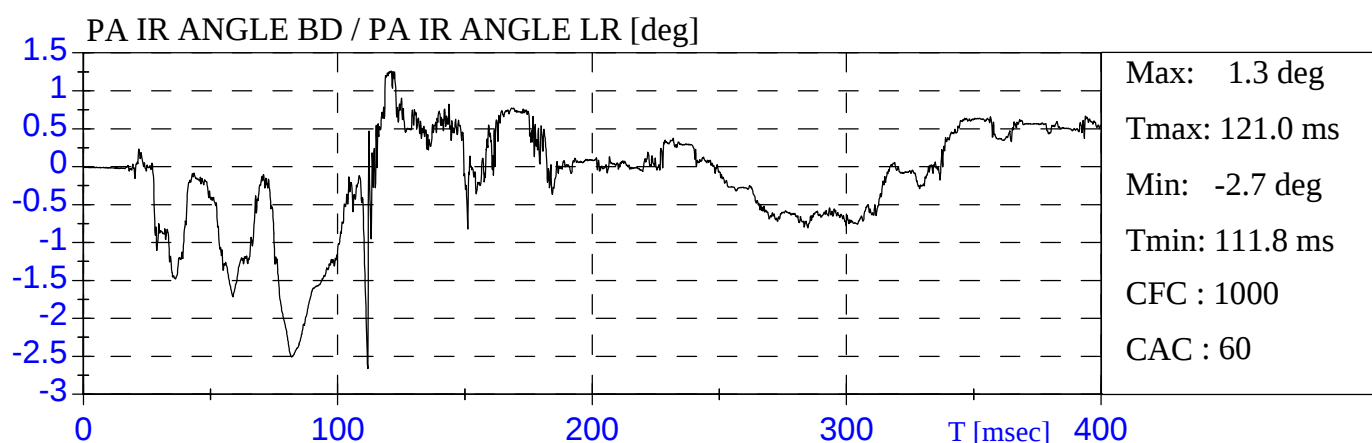
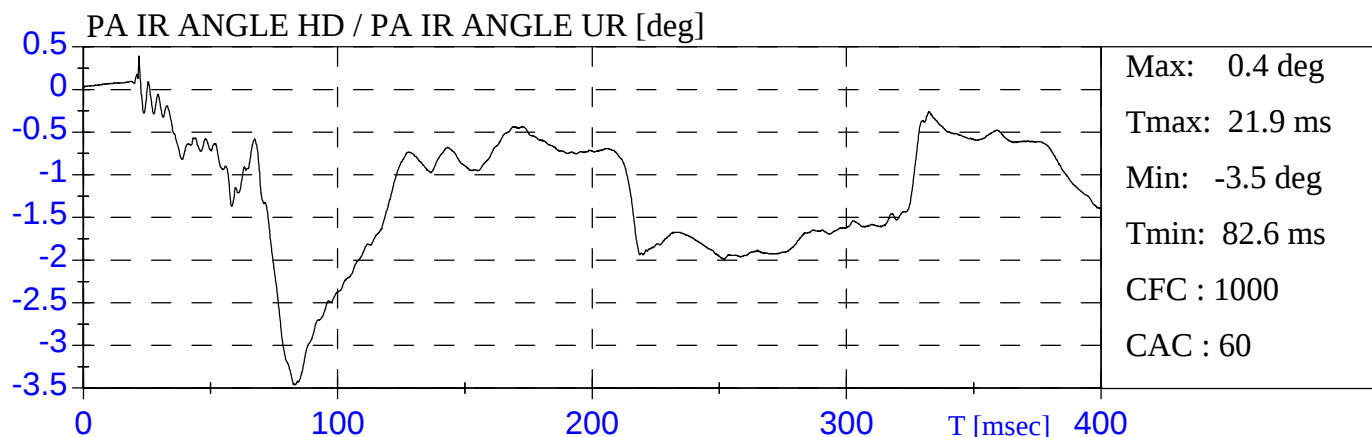
COLLISION FRONTALE
FRONTAL CRASH

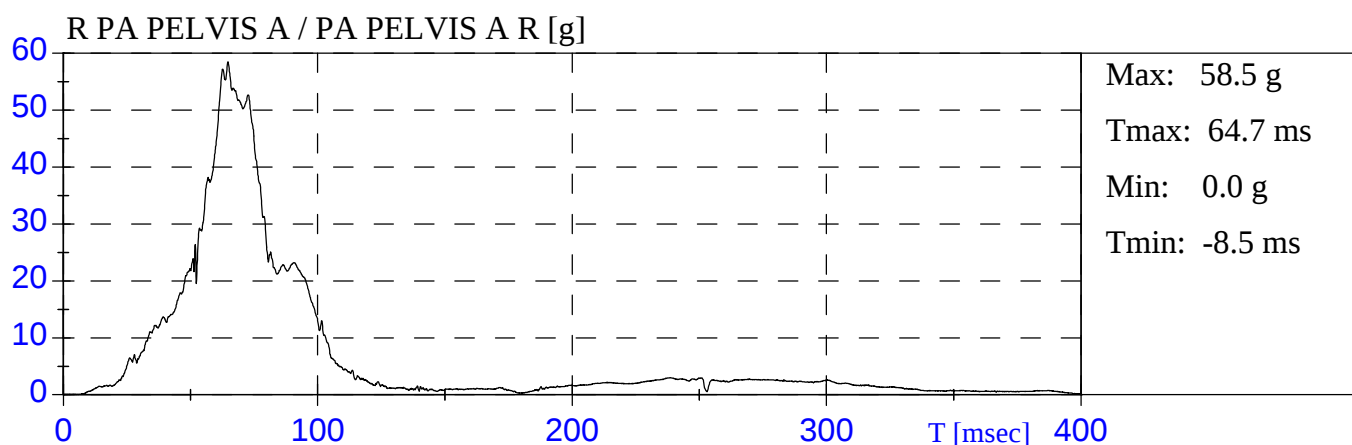
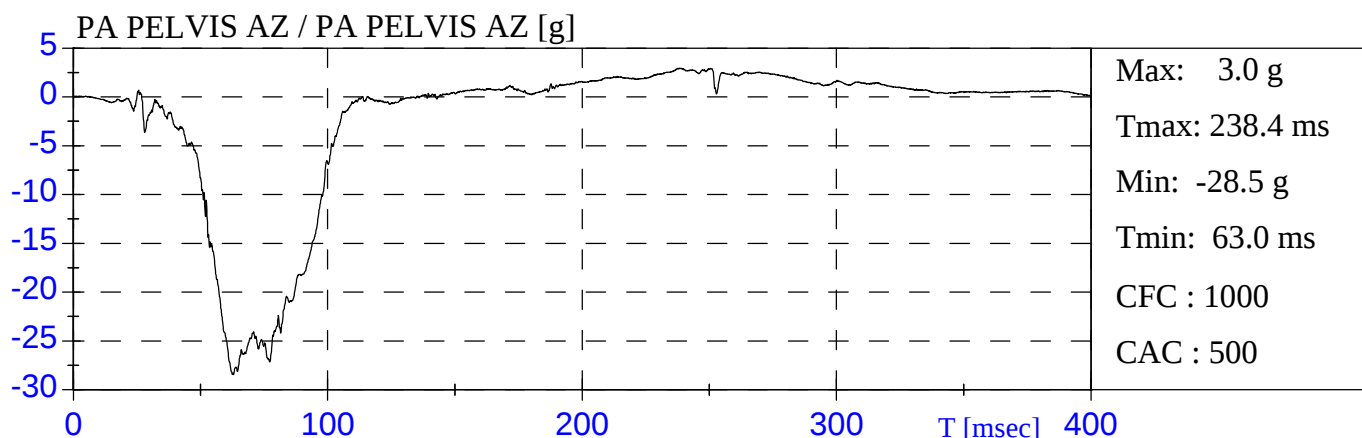
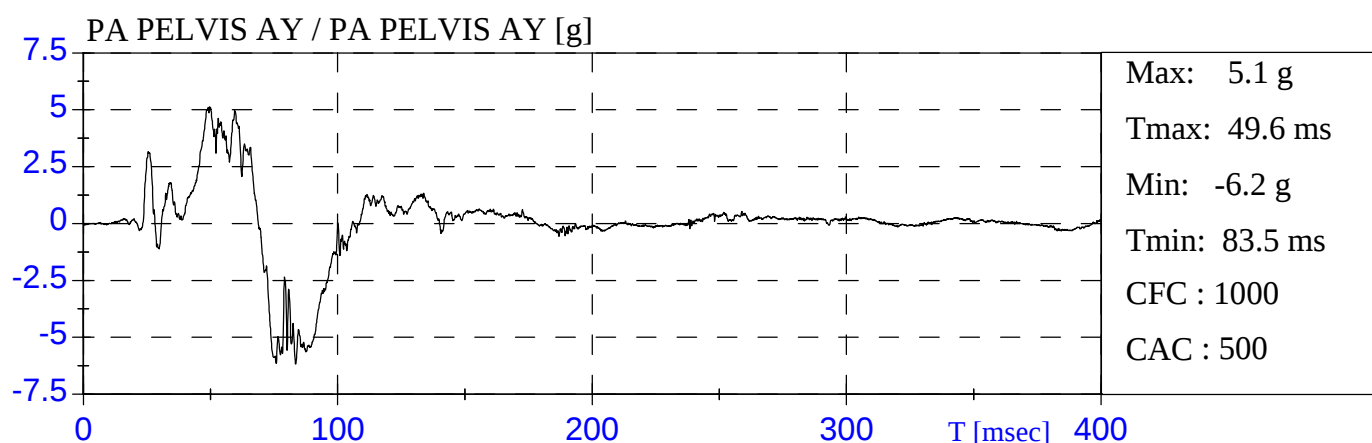
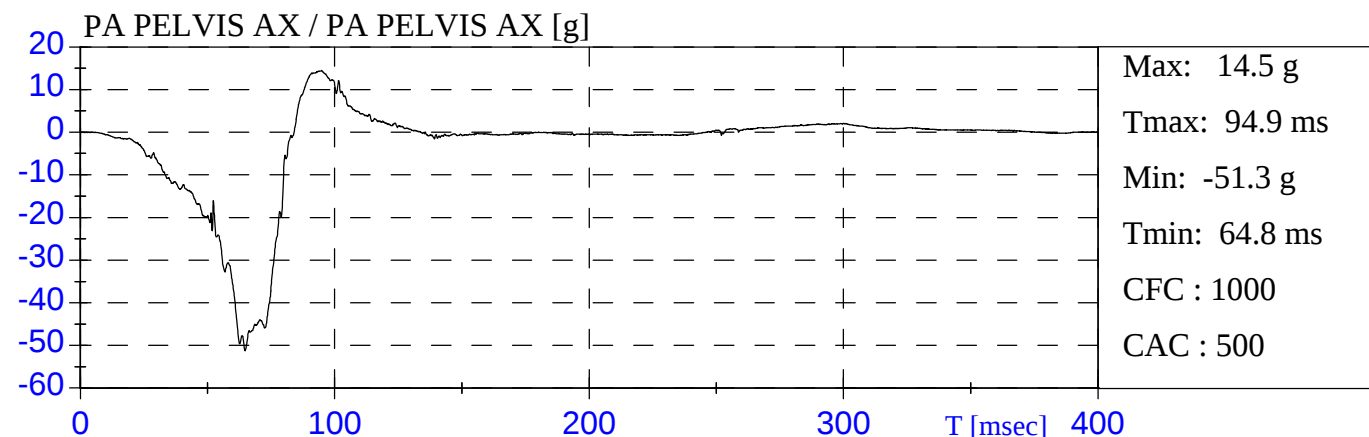
Date: 2004-04-01

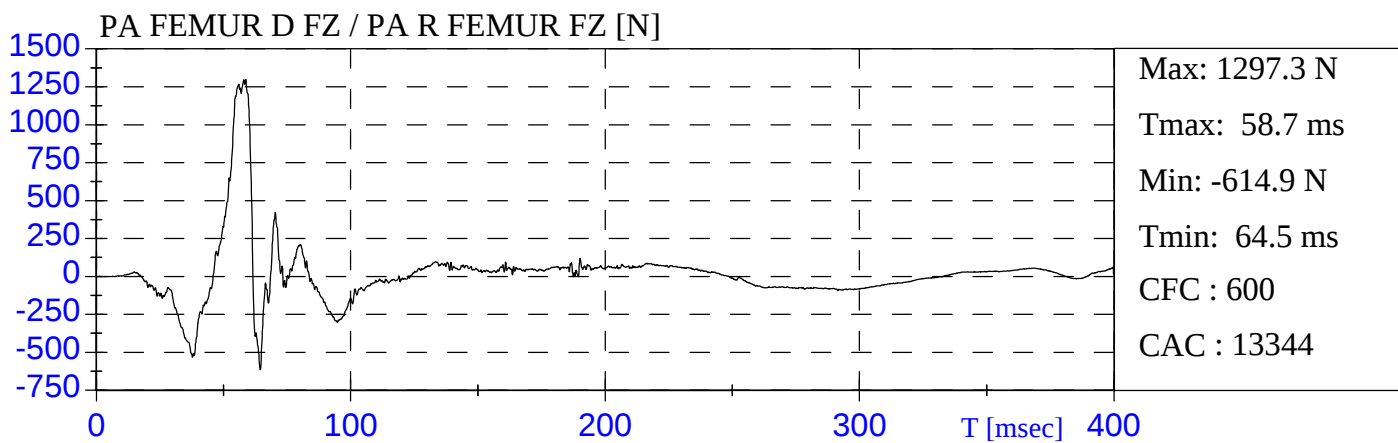
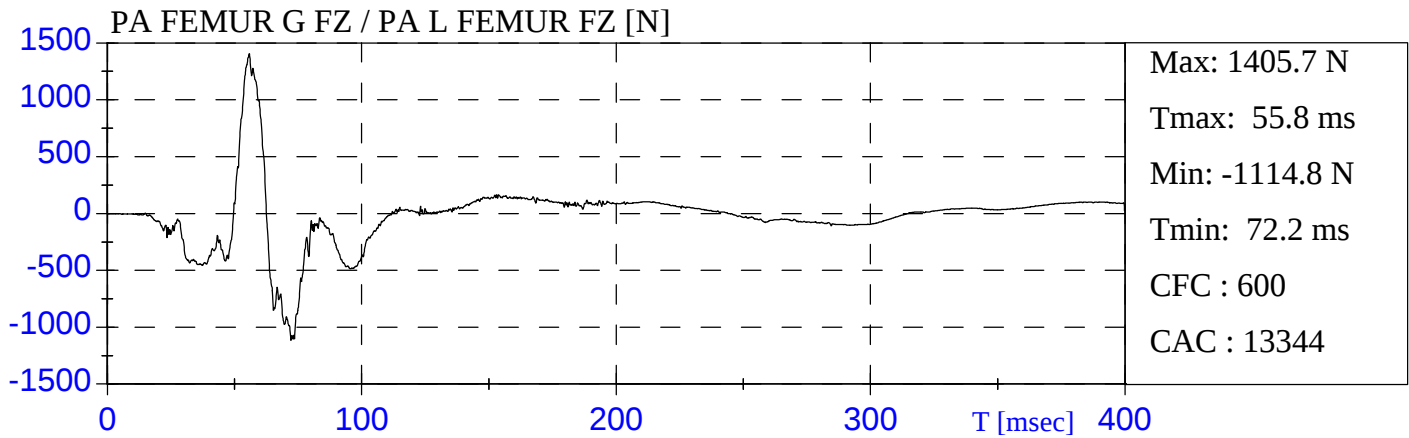
NISSAN 350Z 2004

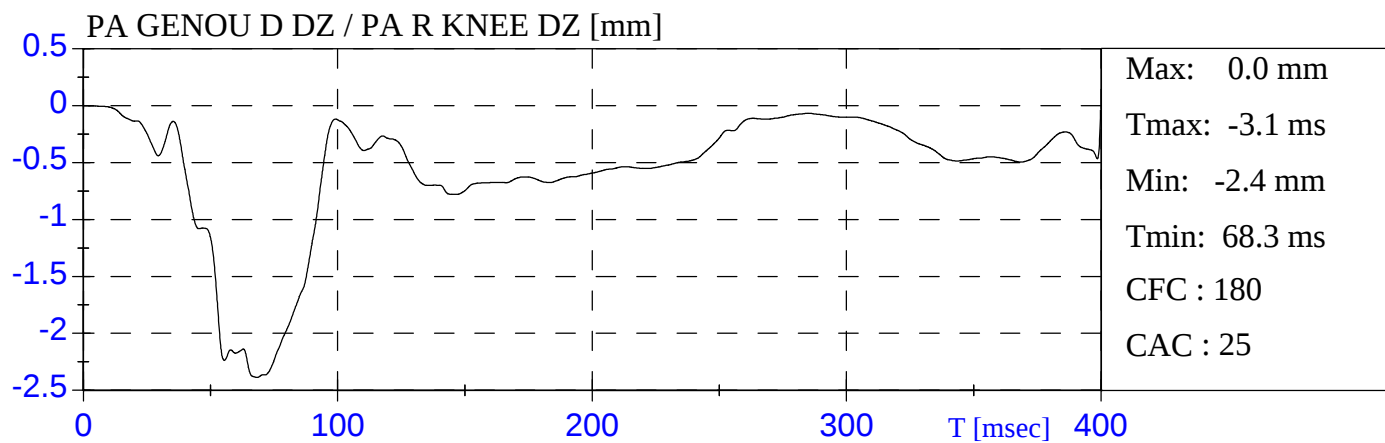
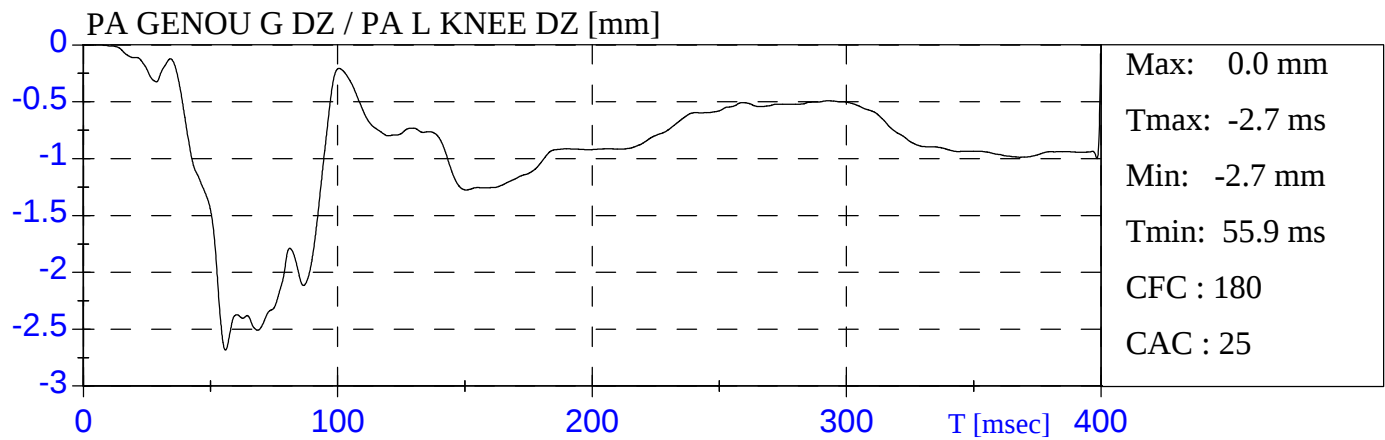
N° TC / TC No.: TC04-132











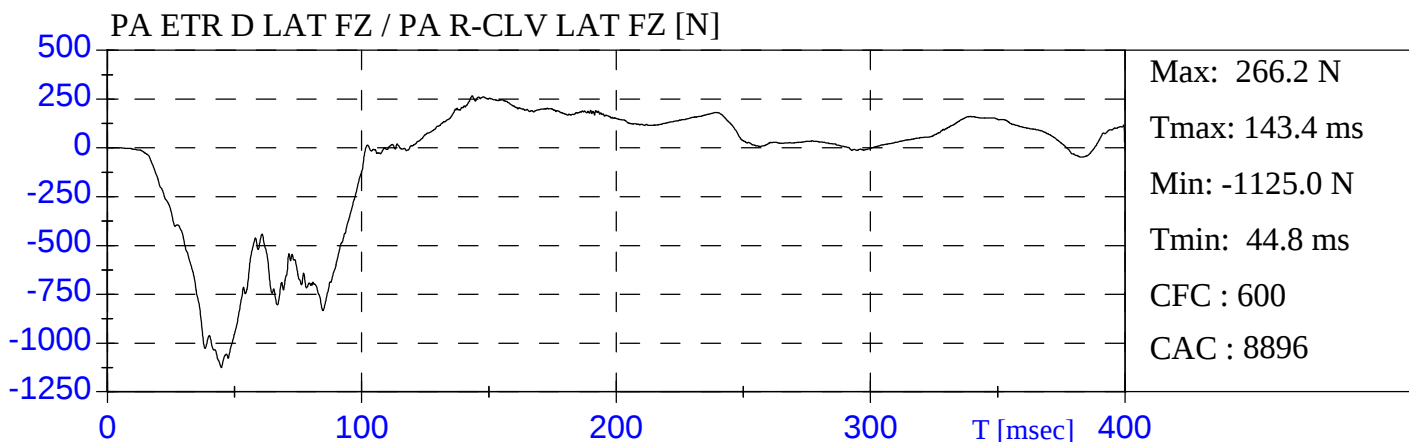
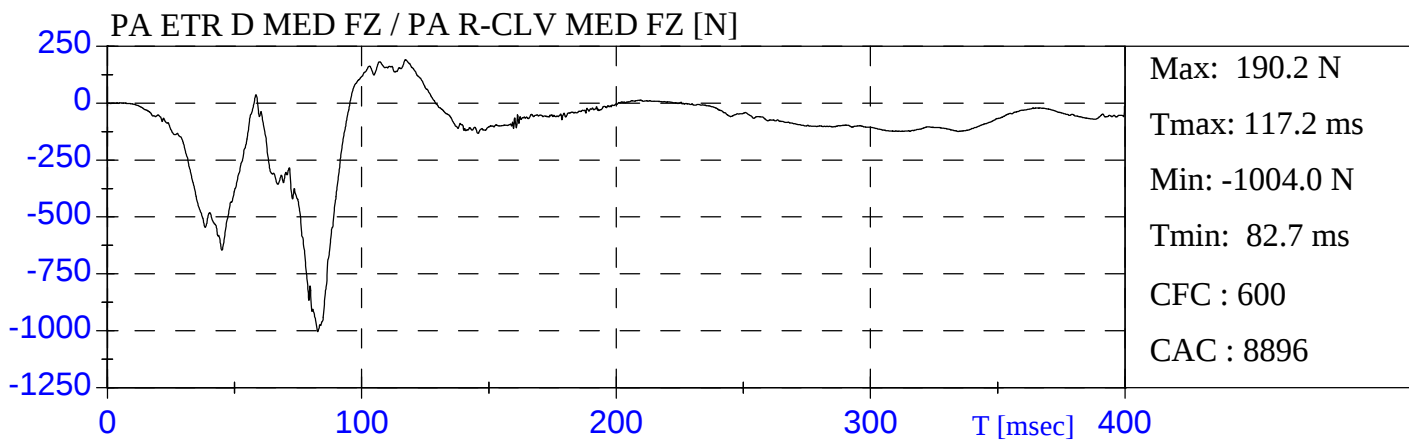
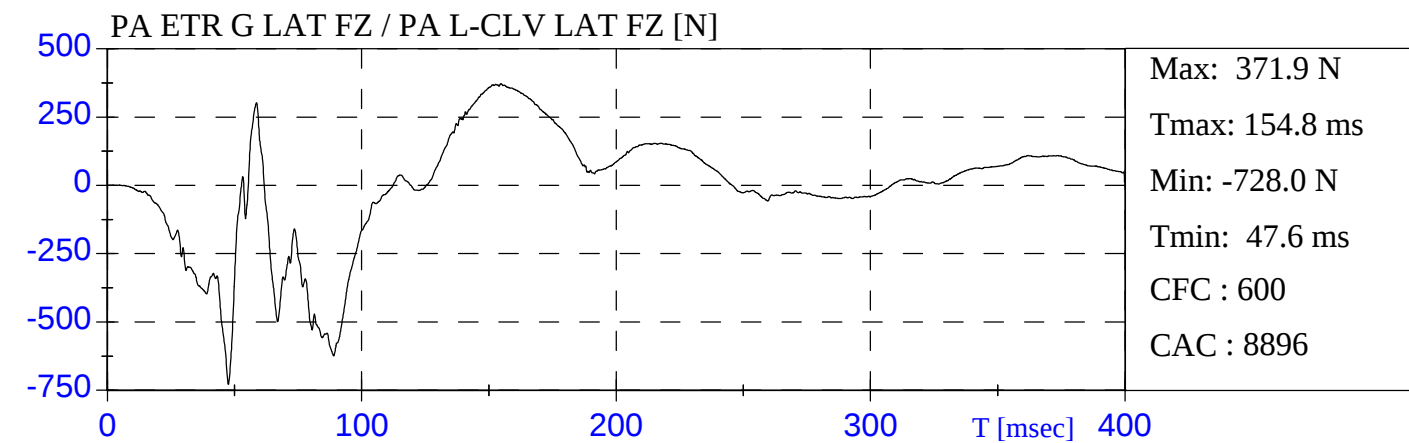
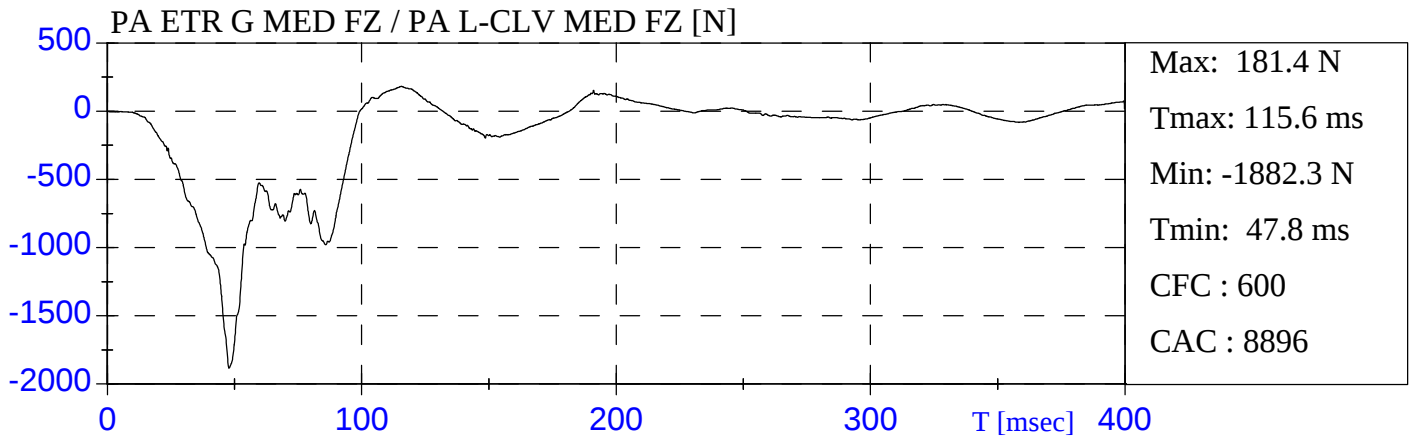


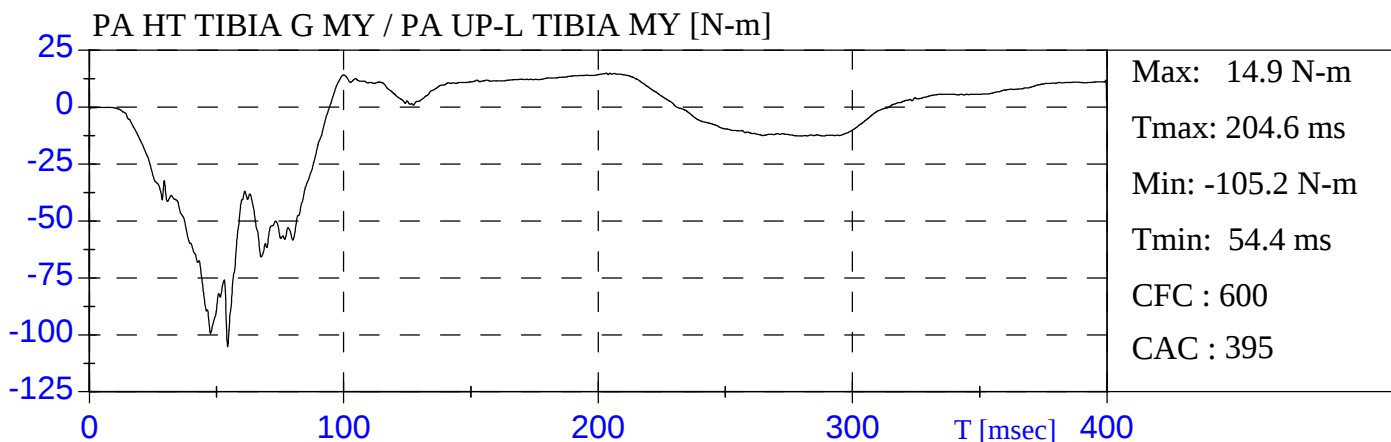
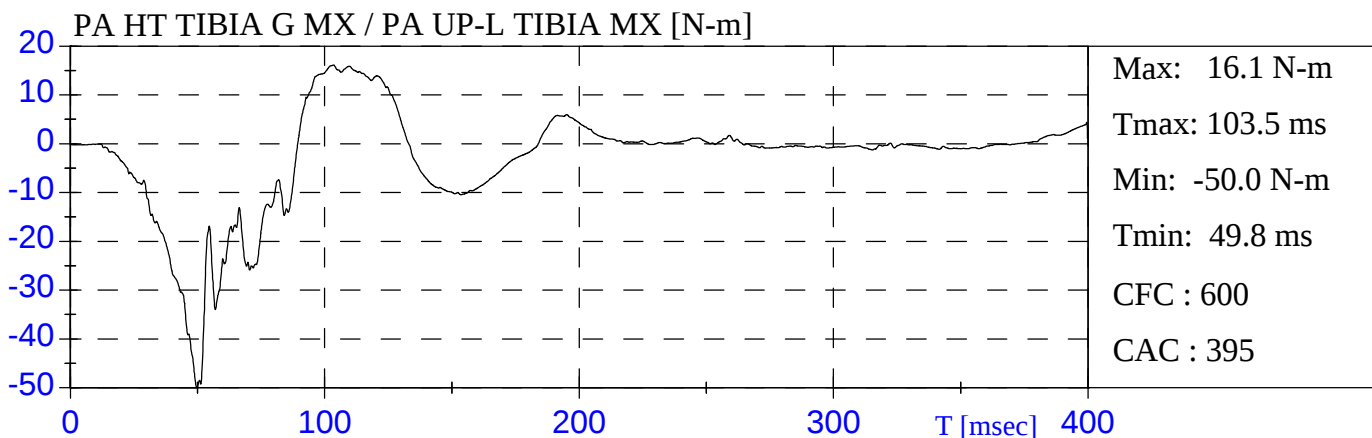
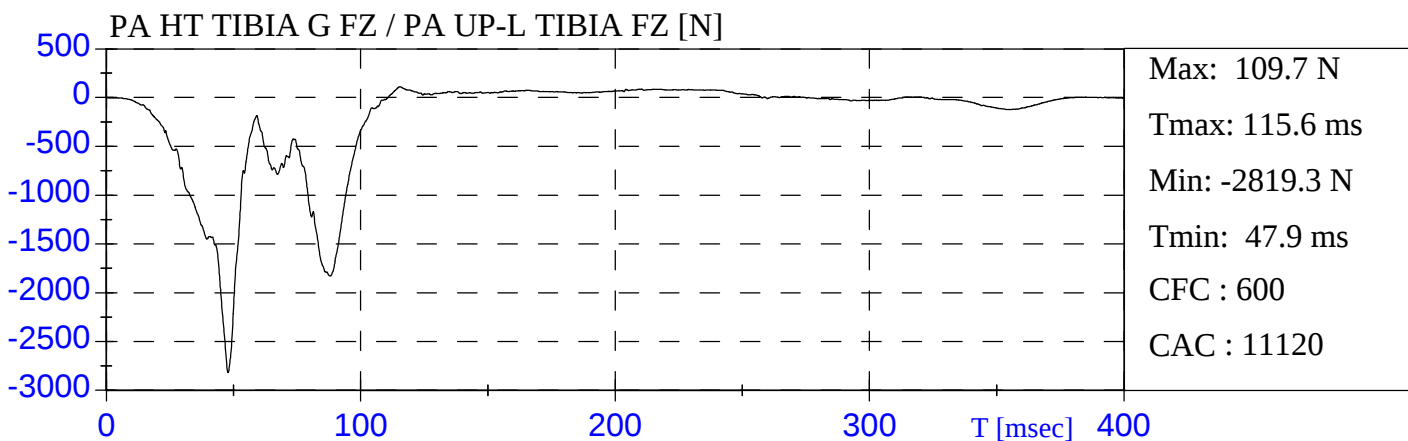
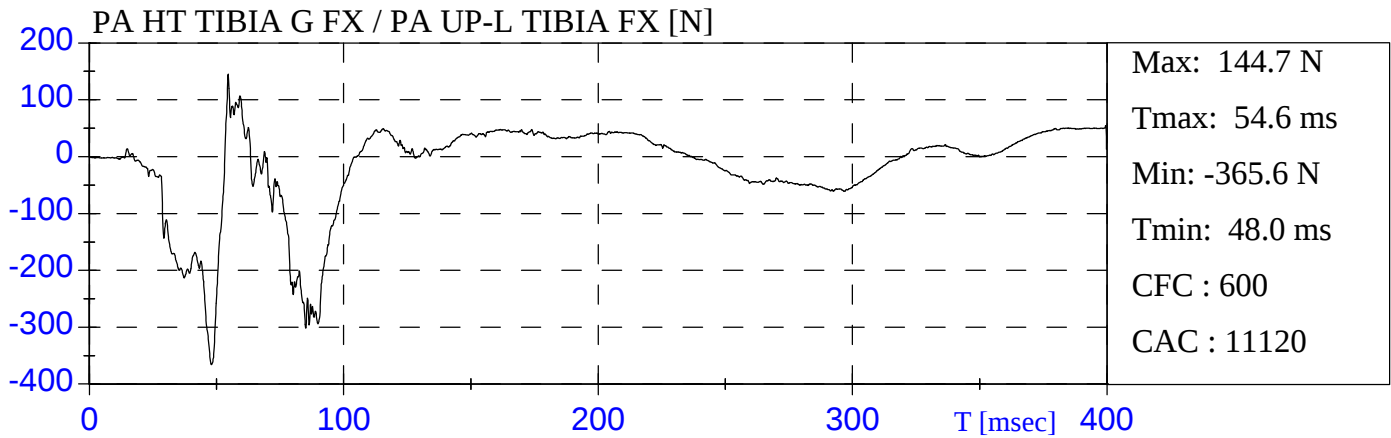
COLLISION FRONTALE
FRONTAL CRASH

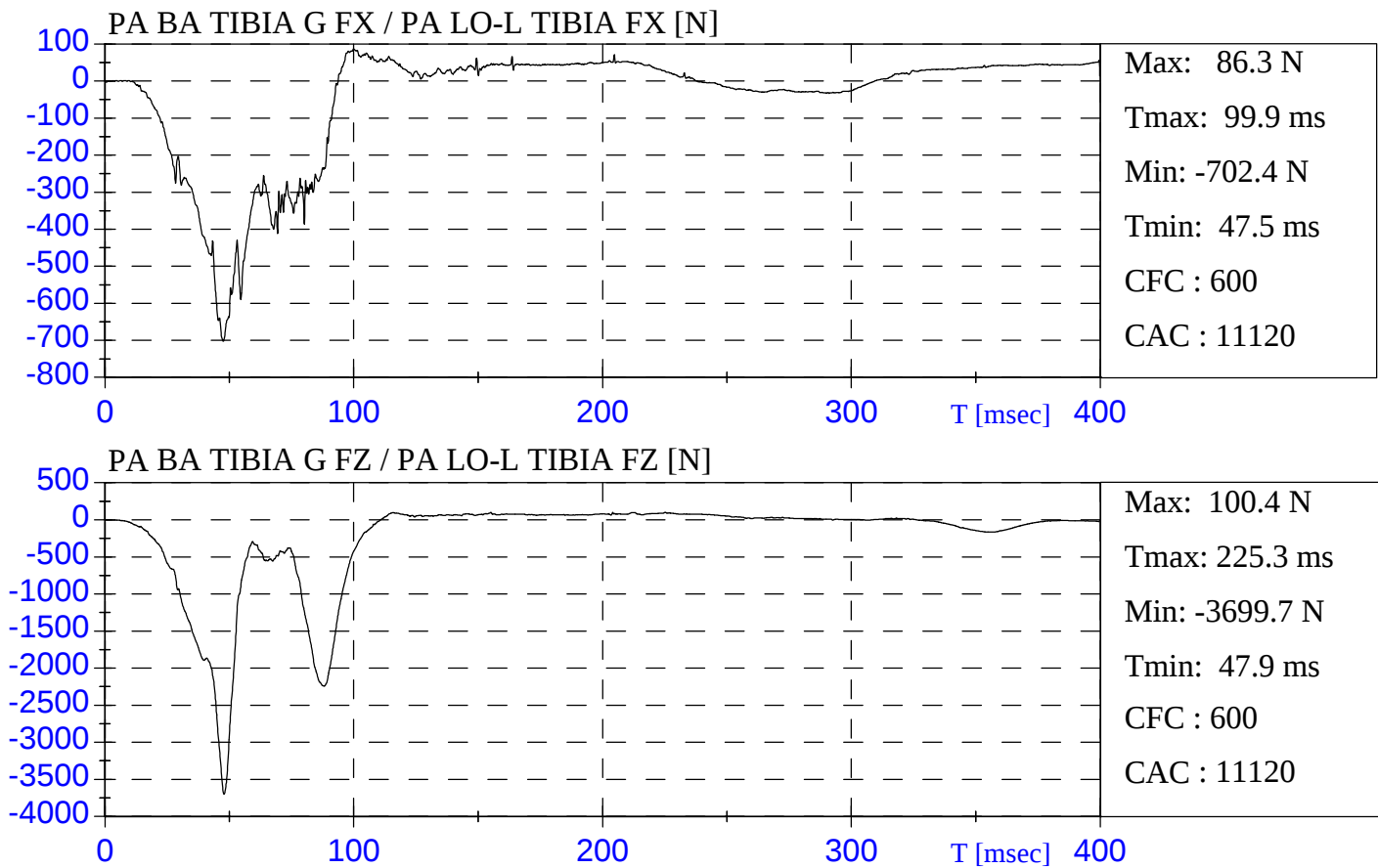
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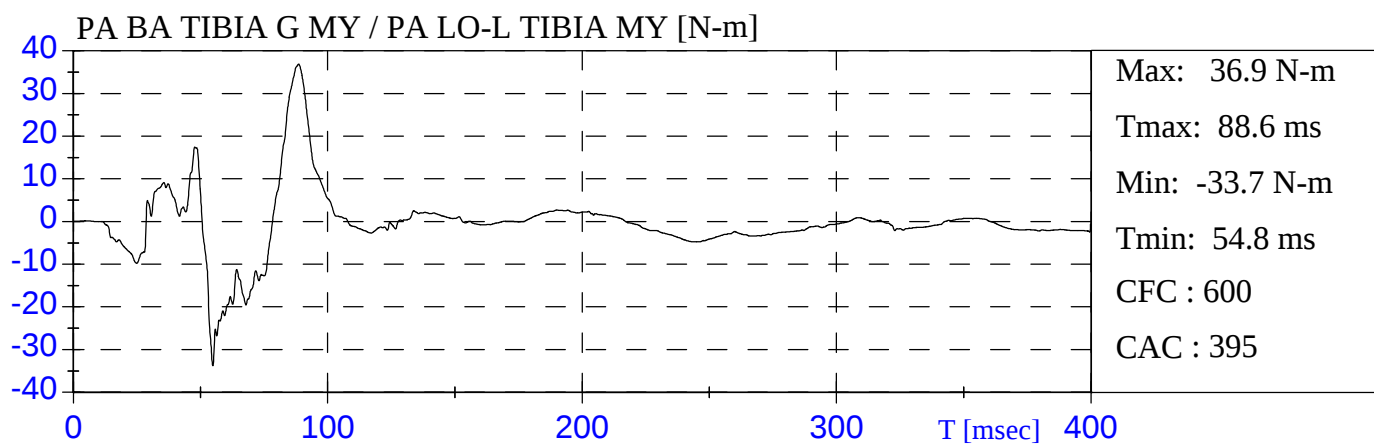
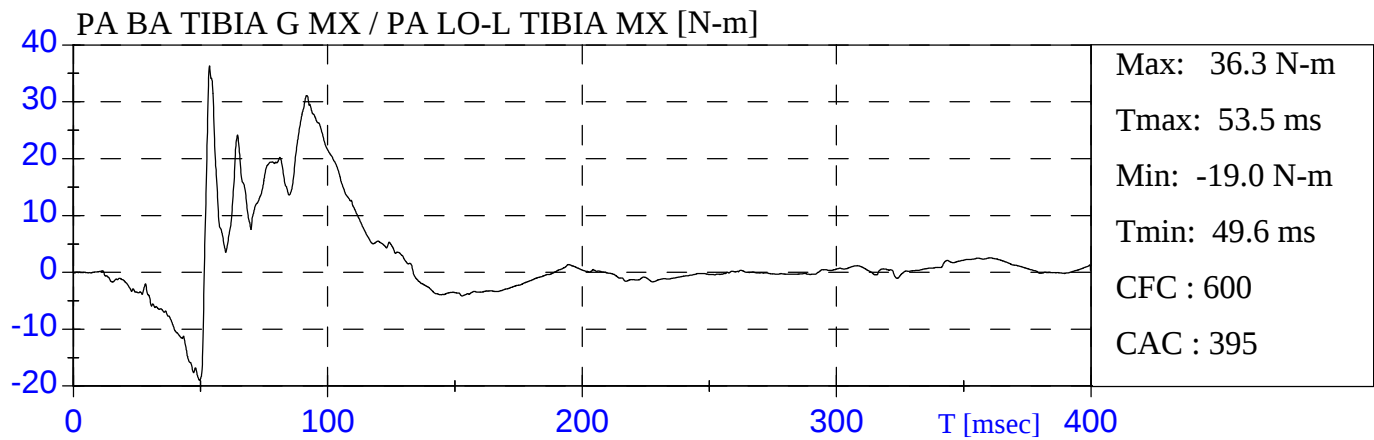
NISSAN 350Z 2004

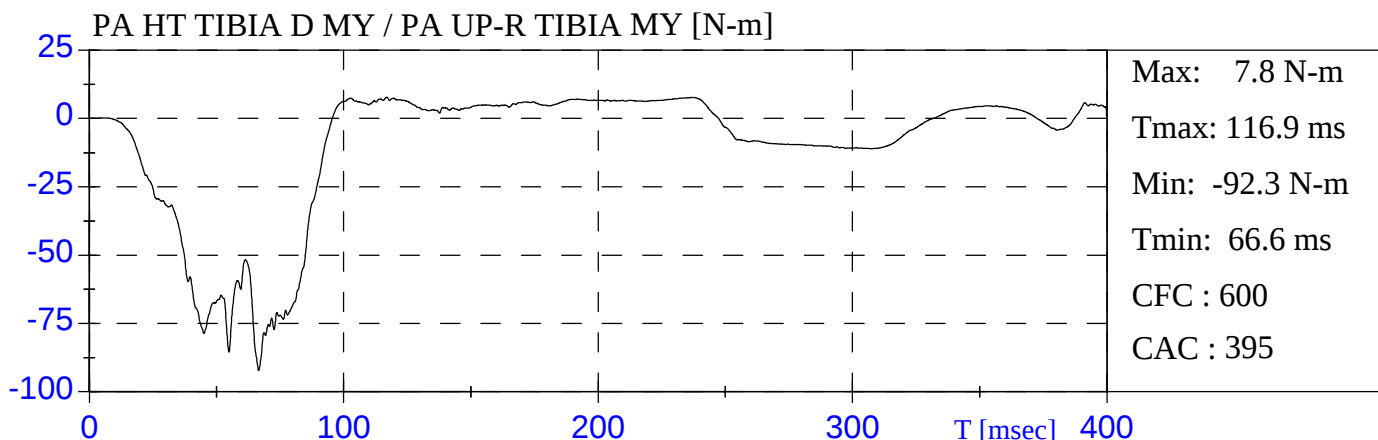
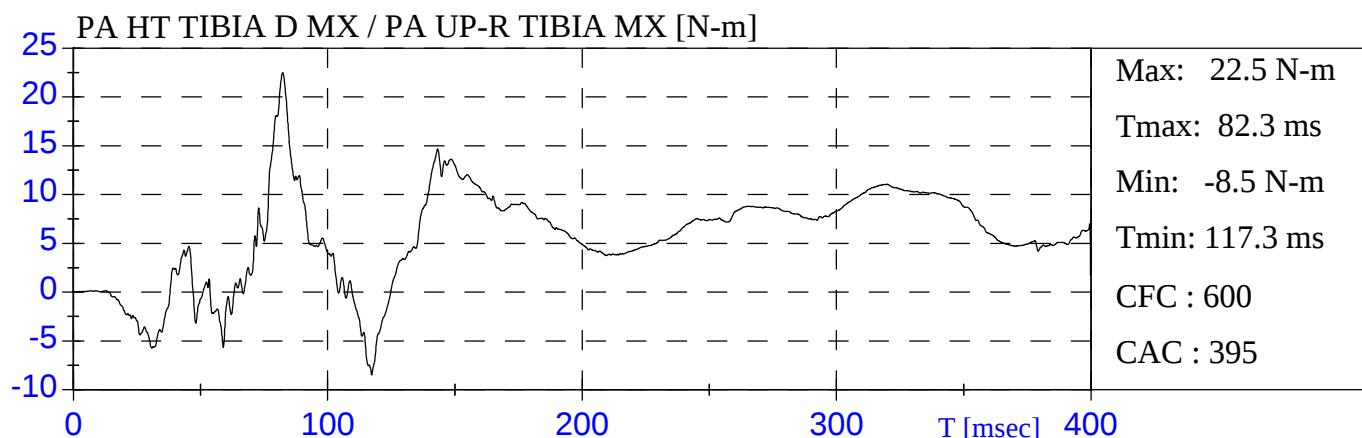
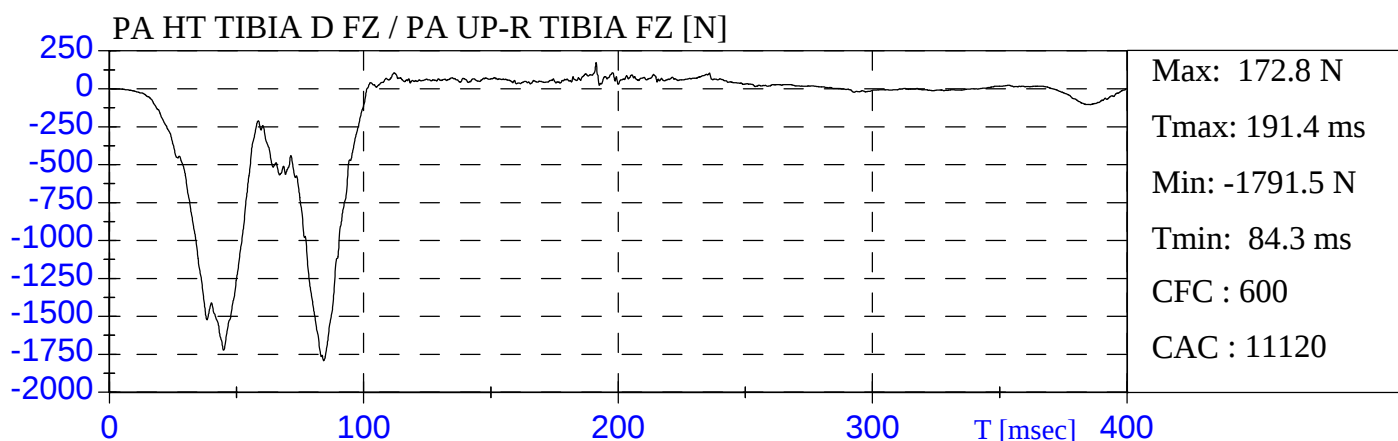
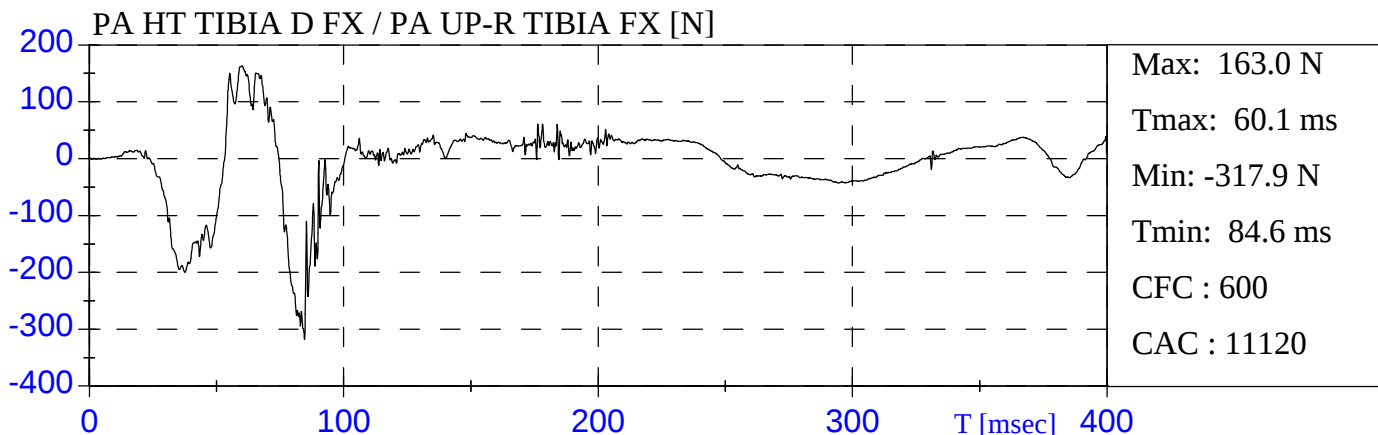
N° TC / TC No.: TC04-132











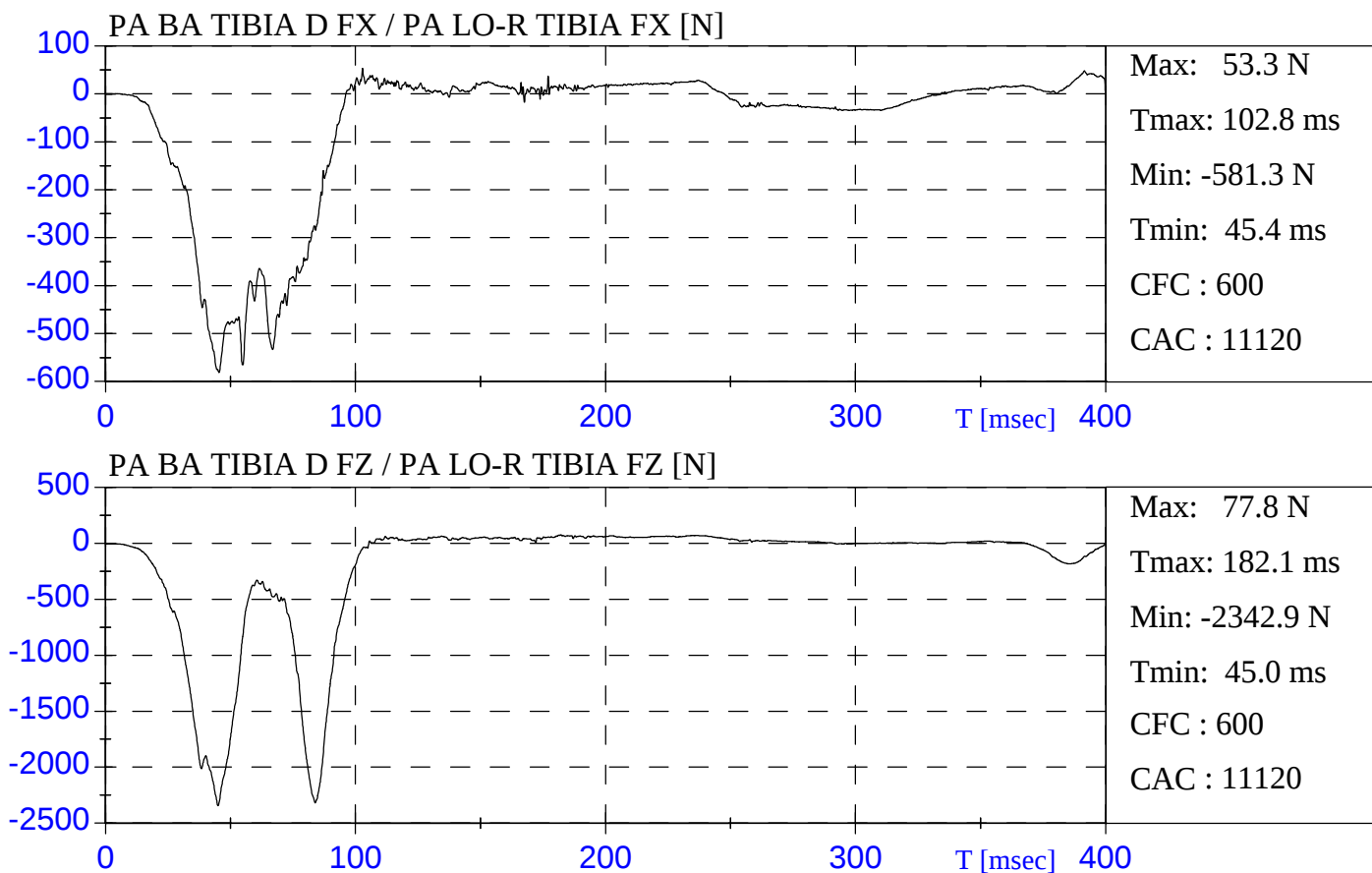


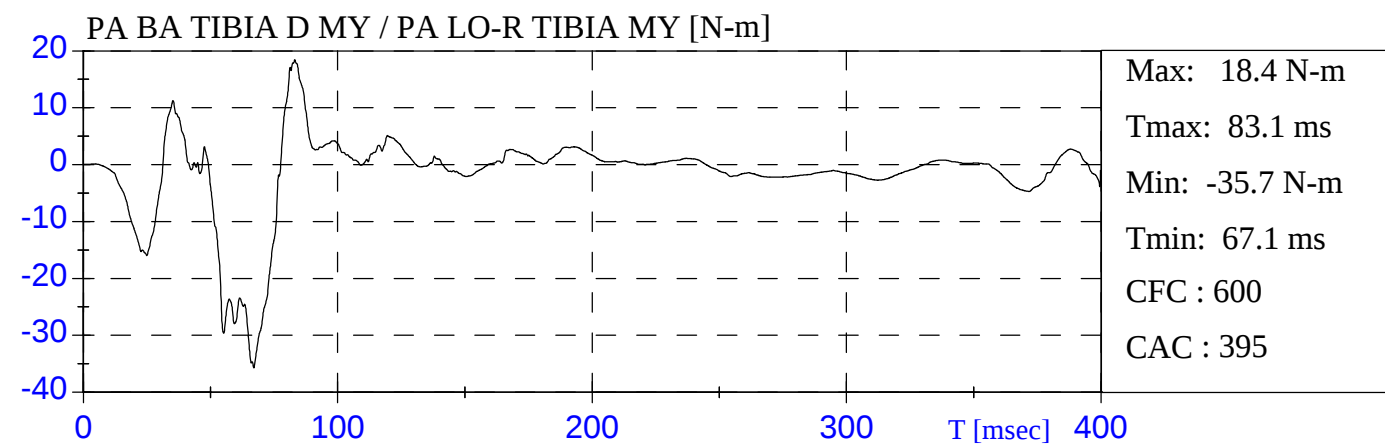
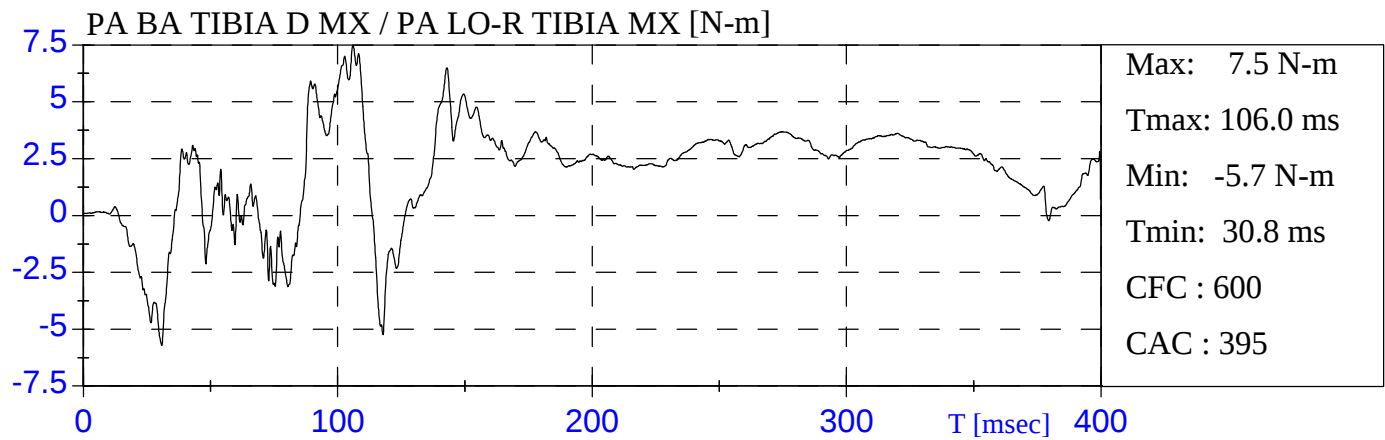
COLLISION FRONTALE
FRONTAL CRASH

Date: 2004-04-01

NISSAN 350Z 2004

N° TC / TC No.: TC04-132





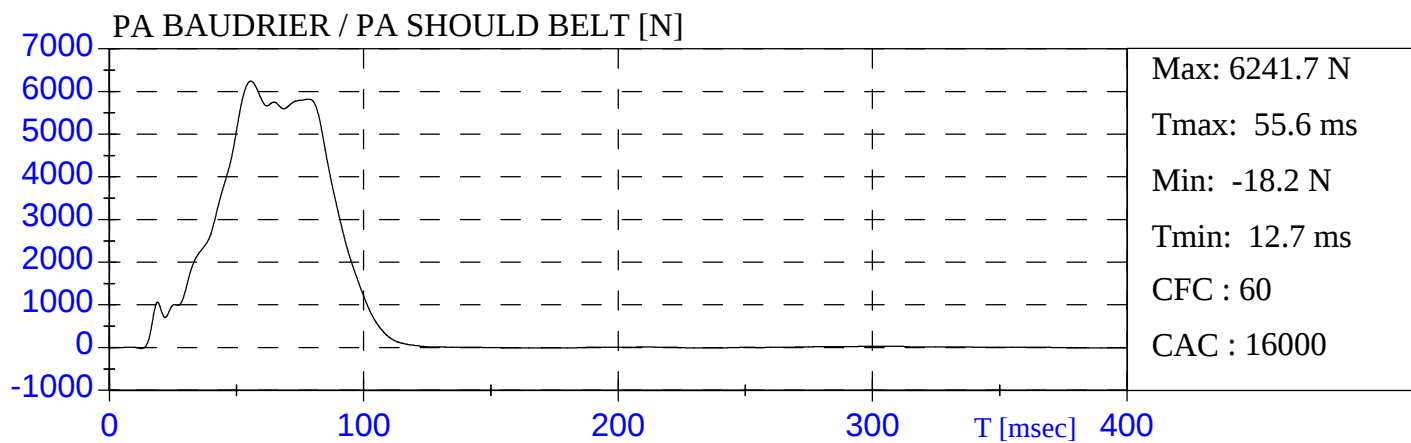
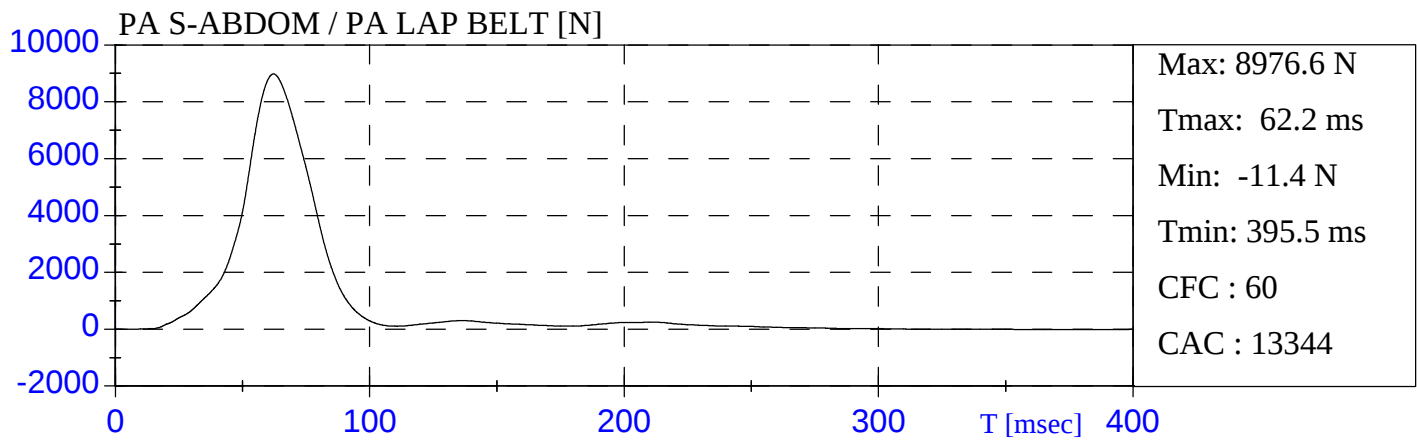


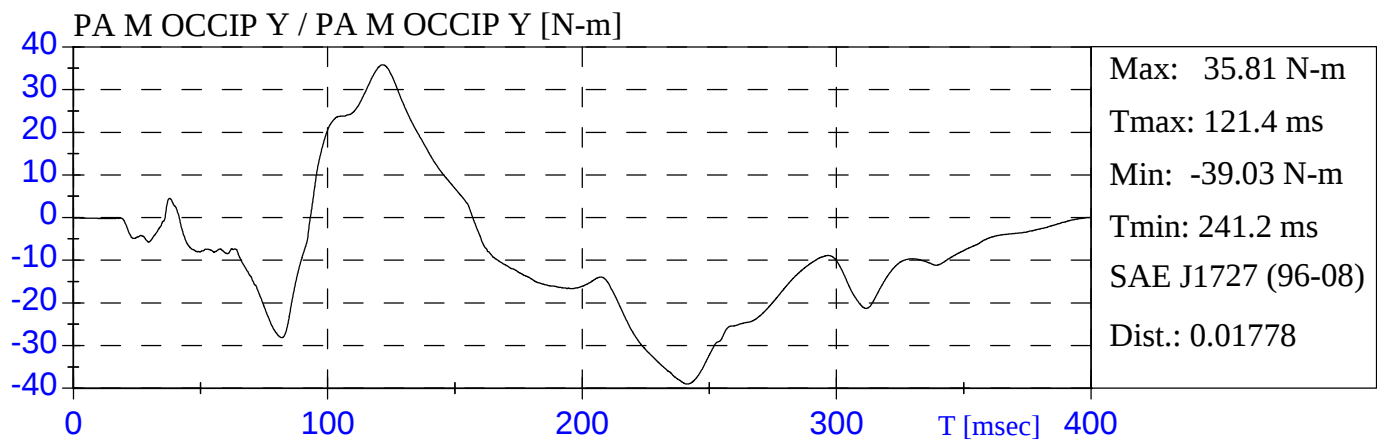
COLLISION FRONTALE
FRONTAL CRASH

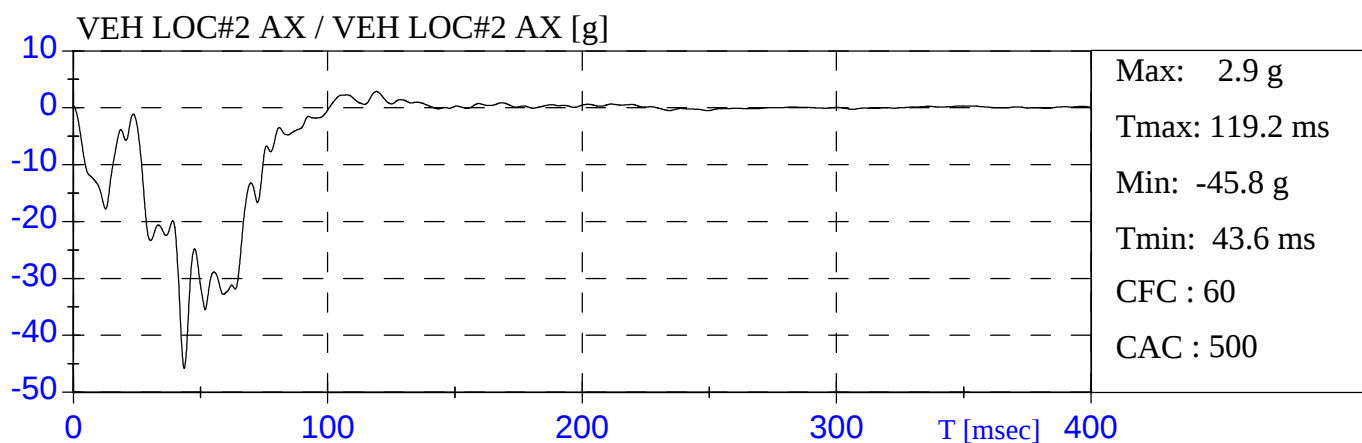
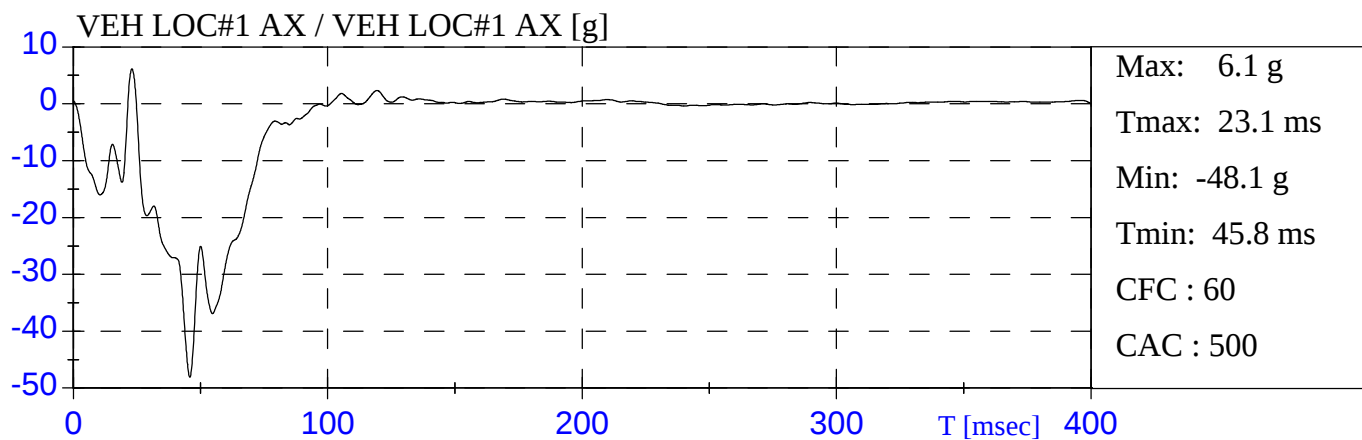
Date: 2004-04-01

NISSAN 350Z 2004

N° TC / TC No.: TC04-132







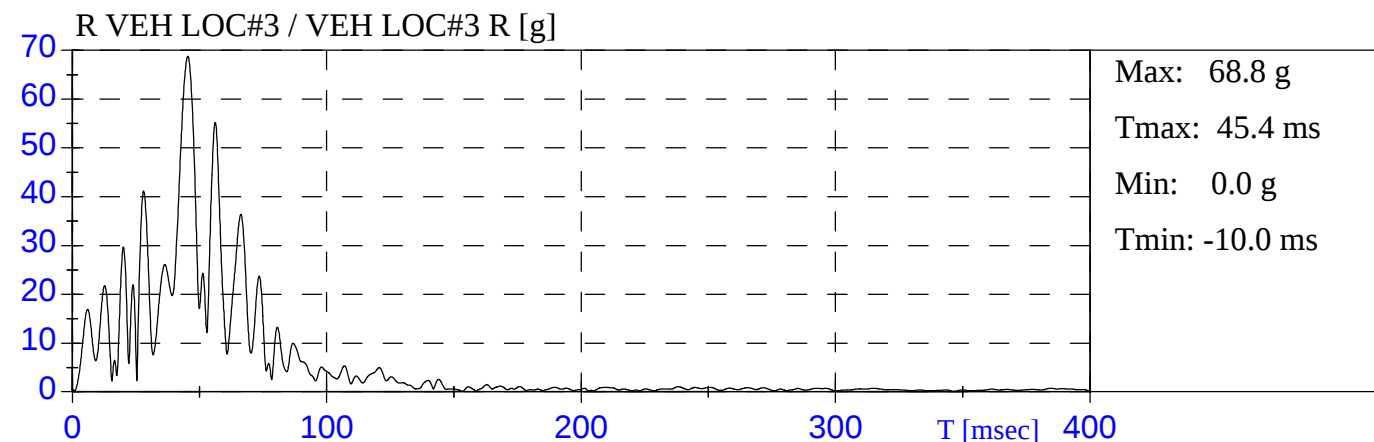
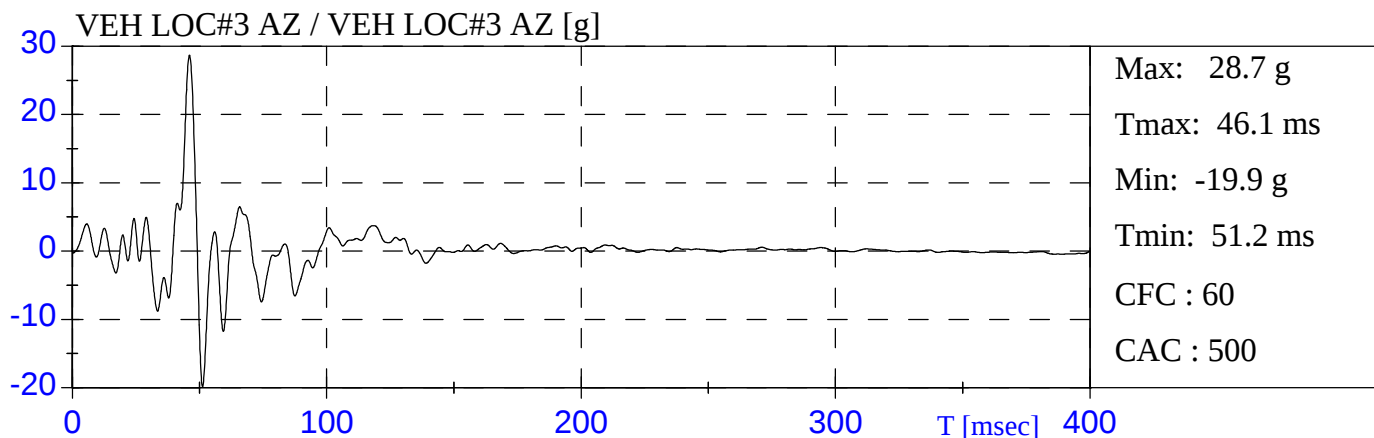
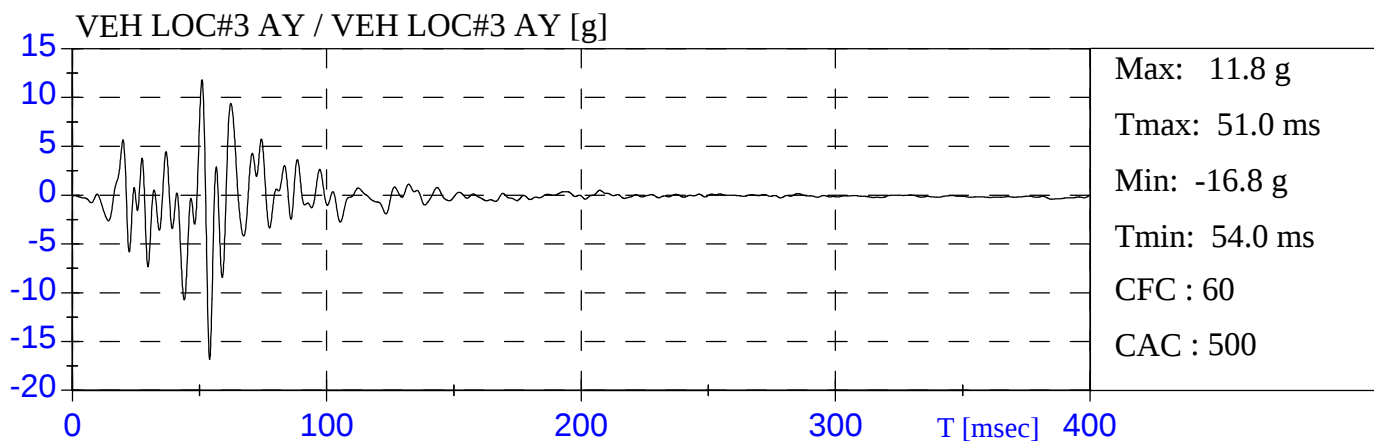
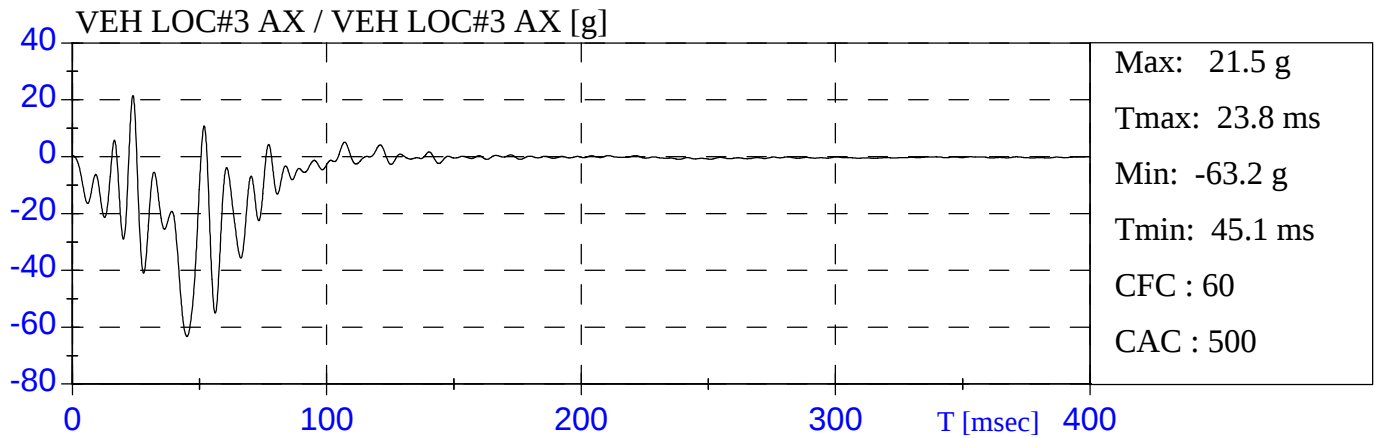


COLLISION FRONTALE
FRONTAL CRASH

Date: 2004-04-01

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N° TC / TC No.: TC04-132



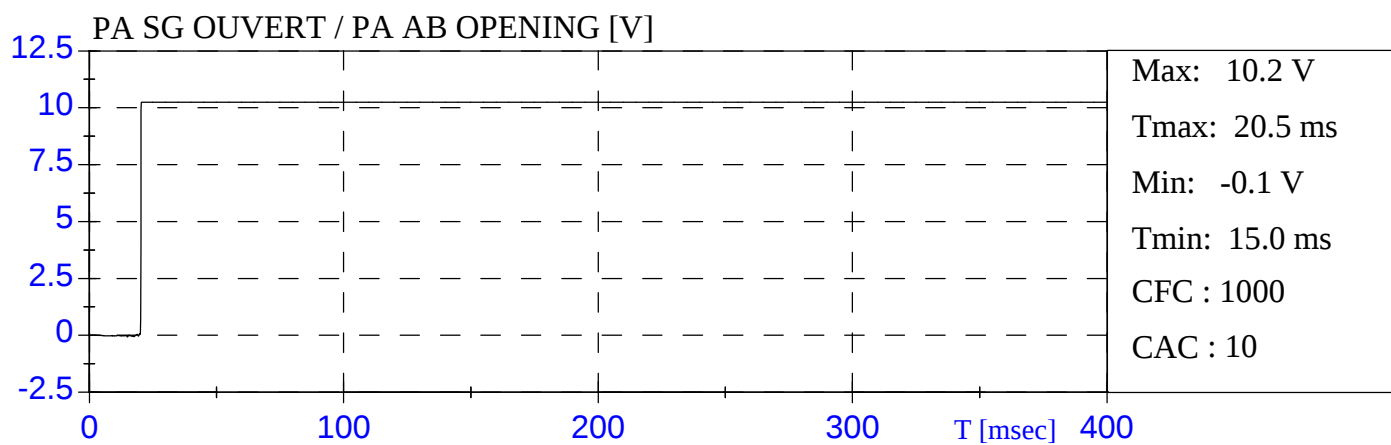
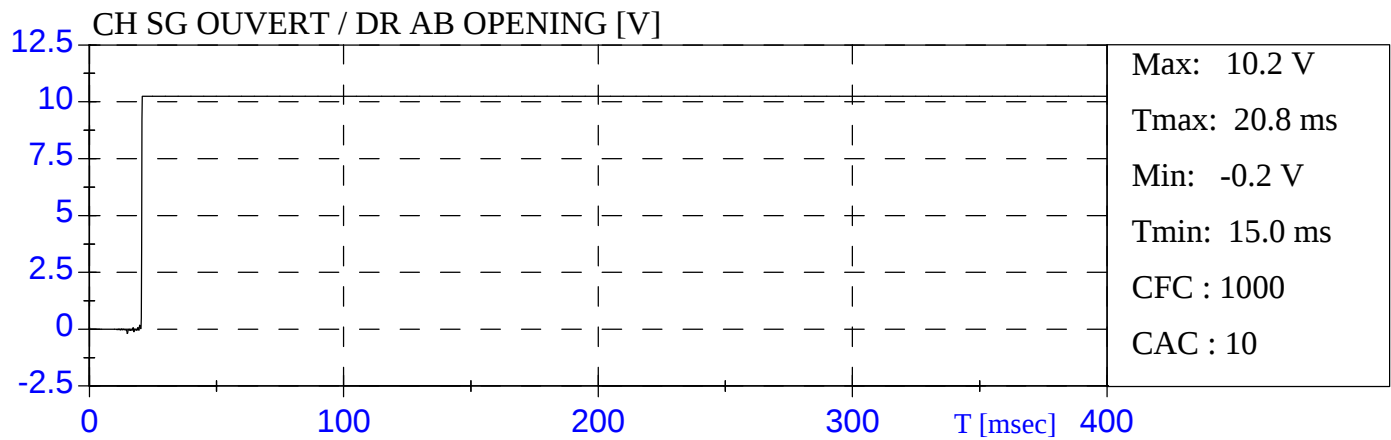


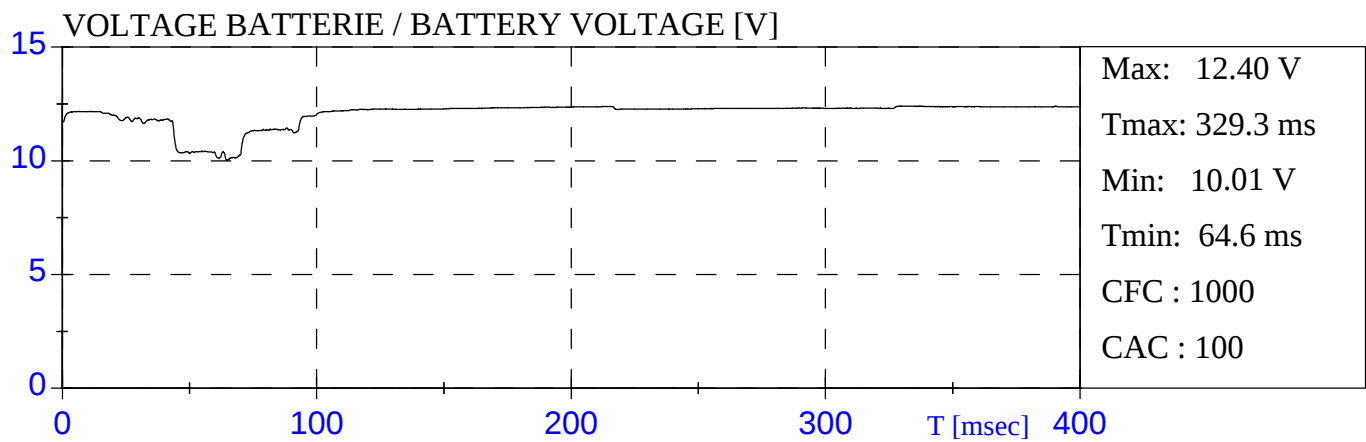
COLLISION FRONTALE
FRONTAL CRASH

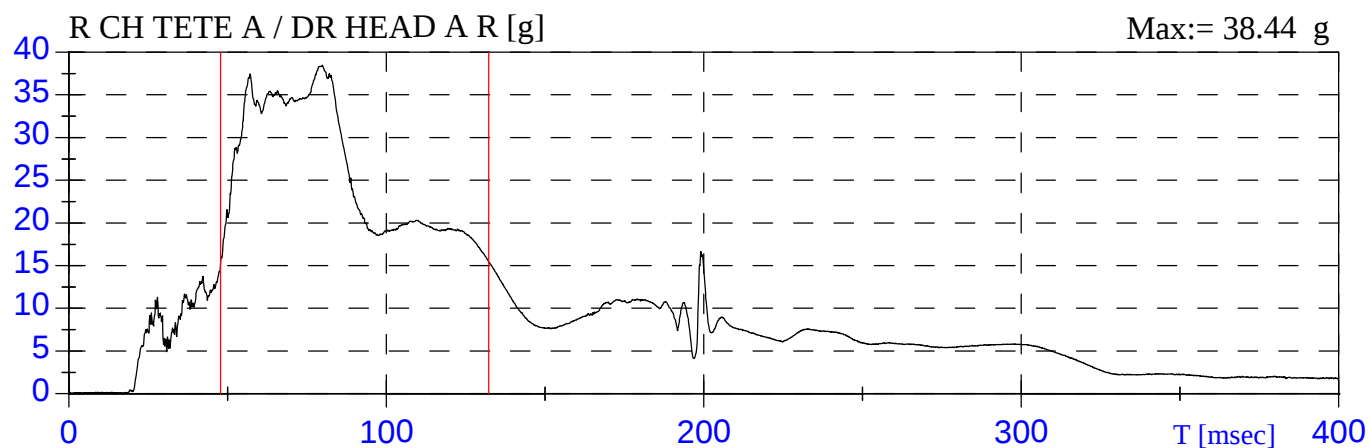
Date: 2004-04-01

NISSAN 350Z 2004

N° TC / TC No.: TC04-132





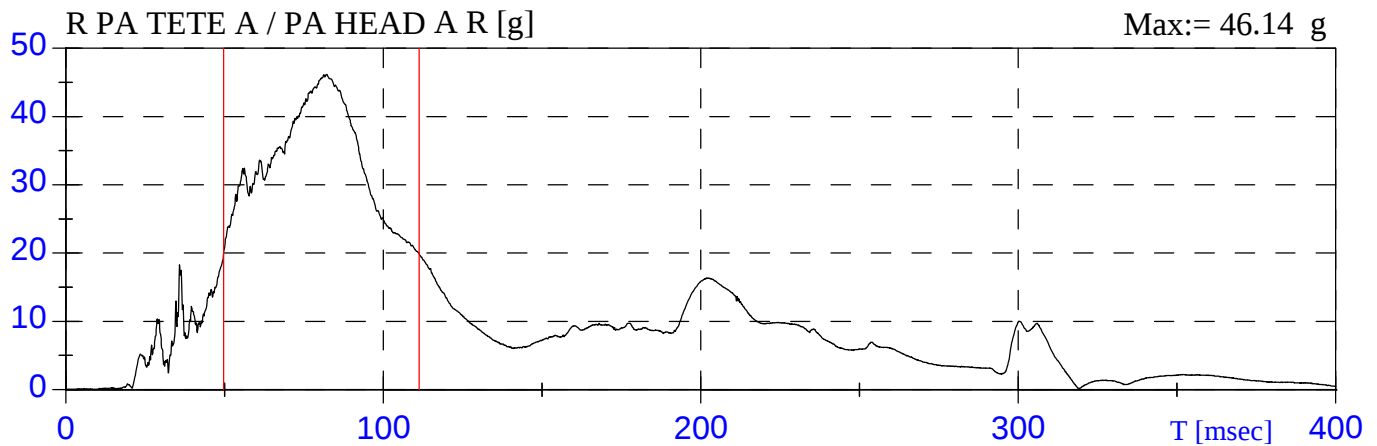


HEAD INJURY CRITERIA (HIC) *

CRITÈRE DE BLESSURE DE LA TÊTE

HIC:= 286	HIC(36ms):= 247	HIC(15ms):= 116
T1:= 47.8 ms	T1:= 51.7 ms	T1:= 69.1 ms
T2:= 132.3 ms	T2:= 87.7 ms	T2:= 84.1 ms

* Selon / According To: SAE J1727 96-08

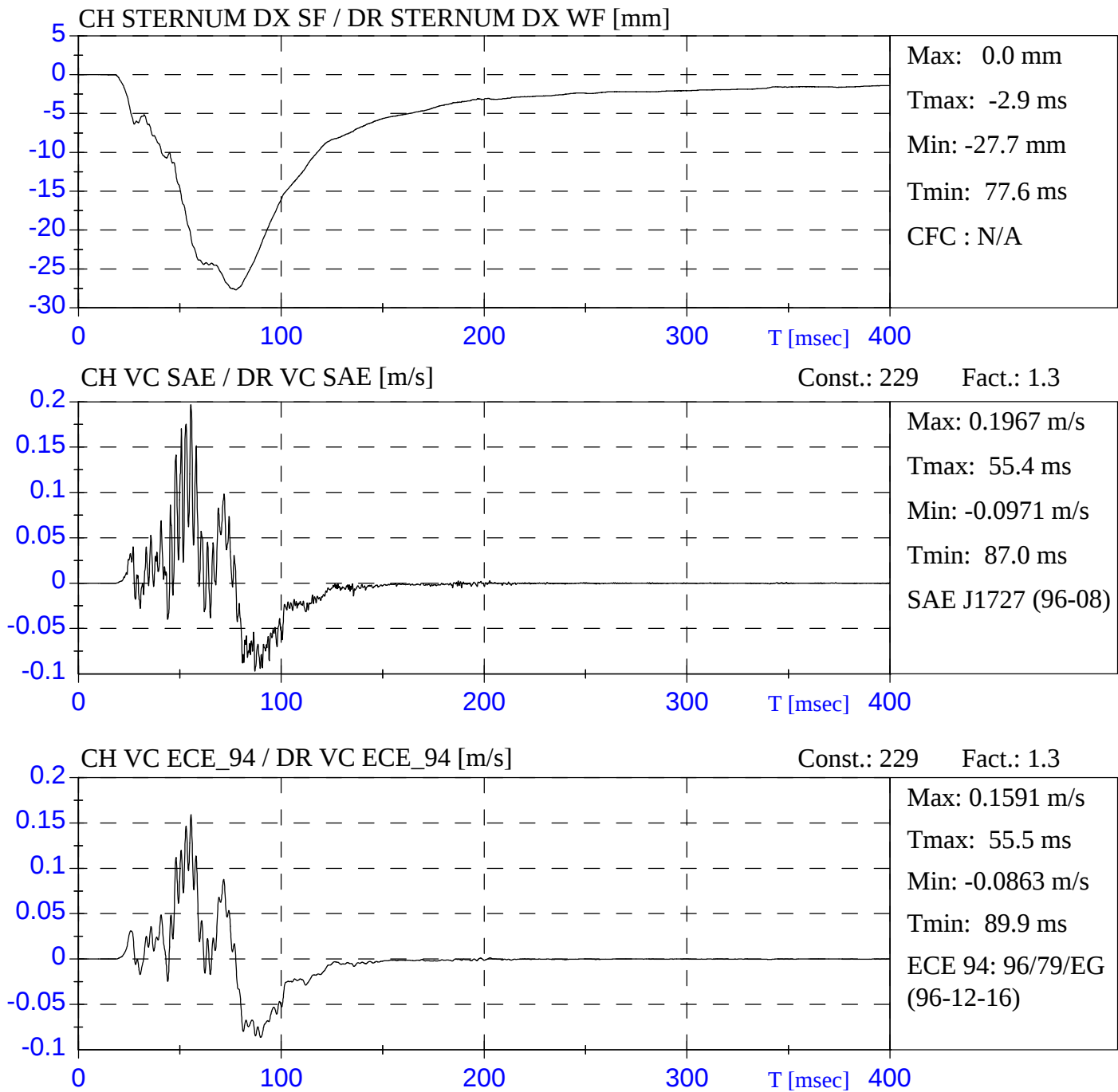


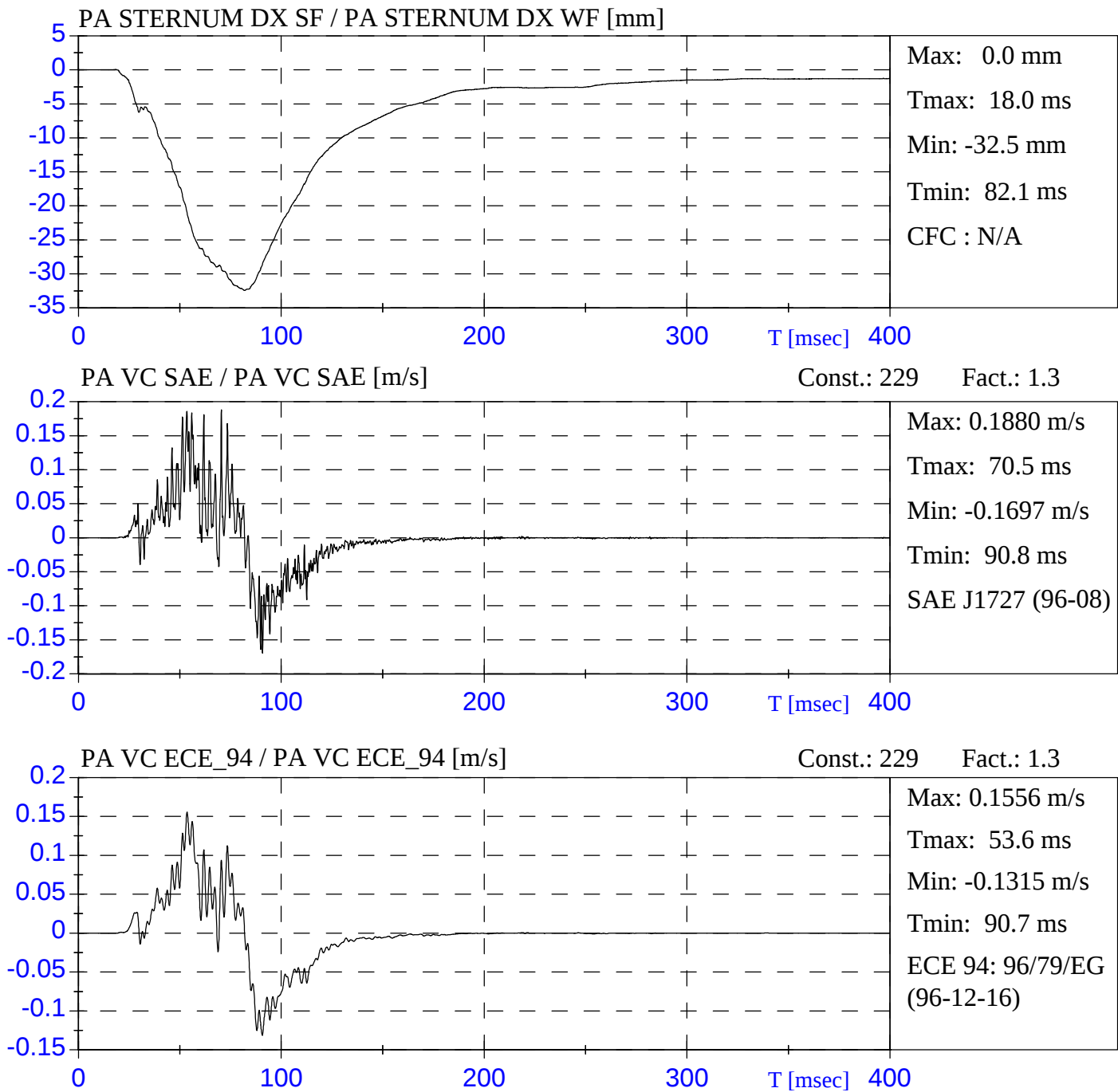
HEAD INJURY CRITERIA (HIC) *

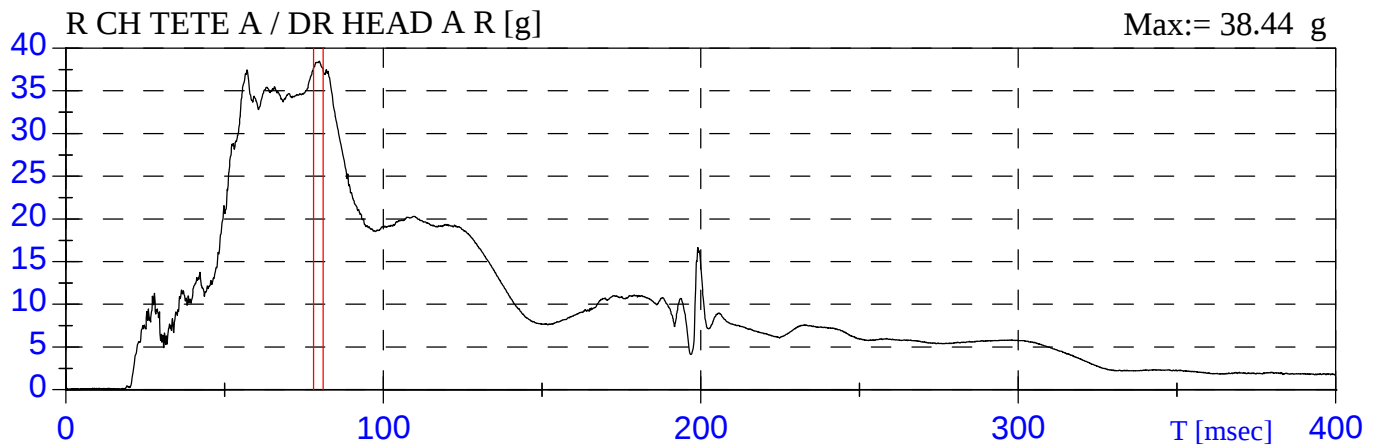
CRITÈRE DE BLESSURE DE LA TÊTE

HIC:= 389	HIC(36ms):= 336	HIC(15ms):= 191
T1:= 49.7 ms	T1:= 59.3 ms	T1:= 73.8 ms
T2:= 111.3 ms	T2:= 95.3 ms	T2:= 88.8 ms

* Selon / According To: SAE J1727 96-08

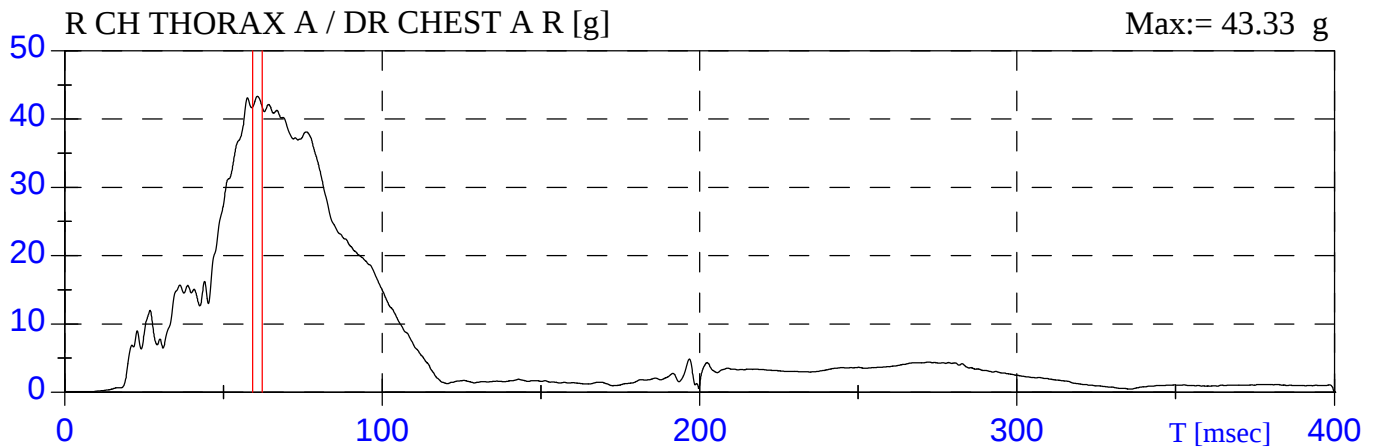






CLIP 3ms *

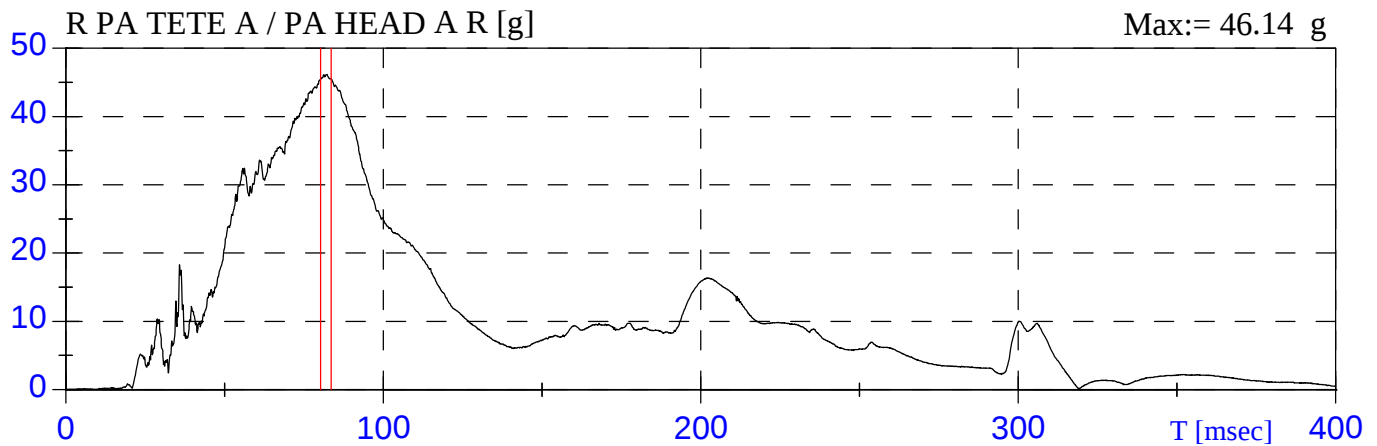
Acc. := 37.59 g	T1:= 78.0 ms	T2:= 81.0 ms
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CLIP 3ms *

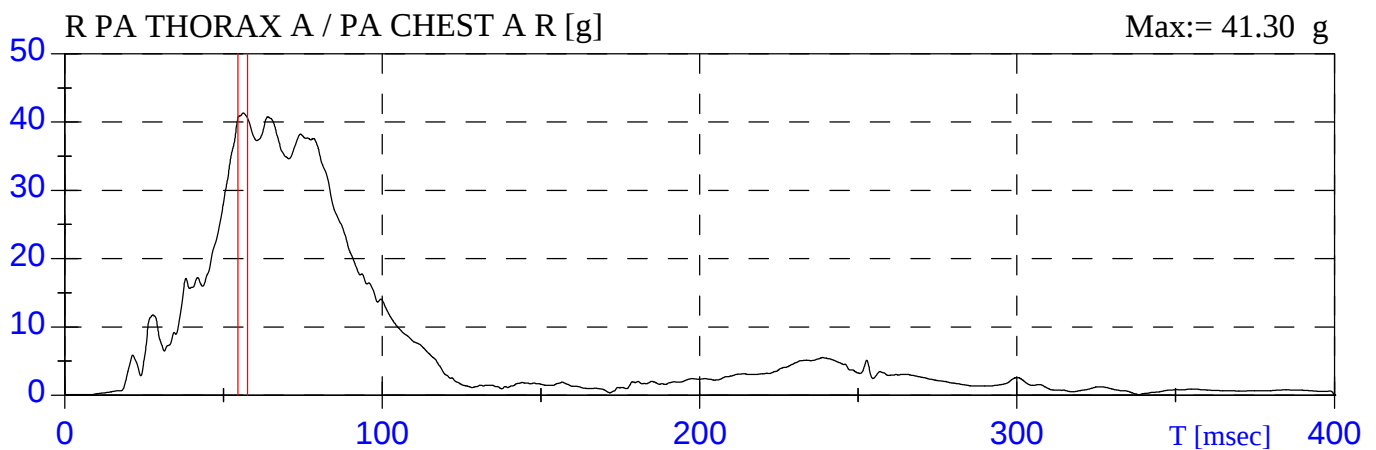
Acc. := 41.76 g	T1:= 59.2 ms	T2:= 62.2 ms
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* Selon / According To: NHTSA CLIP VERSION 2.1 5/95



CLIP 3ms *

Acc. := 45.49 g	T1:= 80.3 ms	T2:= 83.6 ms
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CLIP 3ms *

Acc. := 40.60 g	T1:= 54.6 ms	T2:= 57.6 ms
-----------------	--------------	--------------

* Selon / According To: NHTSA CLIP VERSION 2.1 5/95

INDEX DU TIBIA *

TIBIA INDEX *

TI Chauffeur / Driver

Mc := 225 N-m

Fc := 35.9 kN

TIBIA	GAUCHE / LEFT	DROIT / RIGHT
HAUT / UPPER	0.467	0.597
BAS / LOWER	0.619	0.415

* Selon / According To: SAE J1727 AUG 96

INDEX DU TIBIA *

TIBIA INDEX *

TI Passenger / Passenger

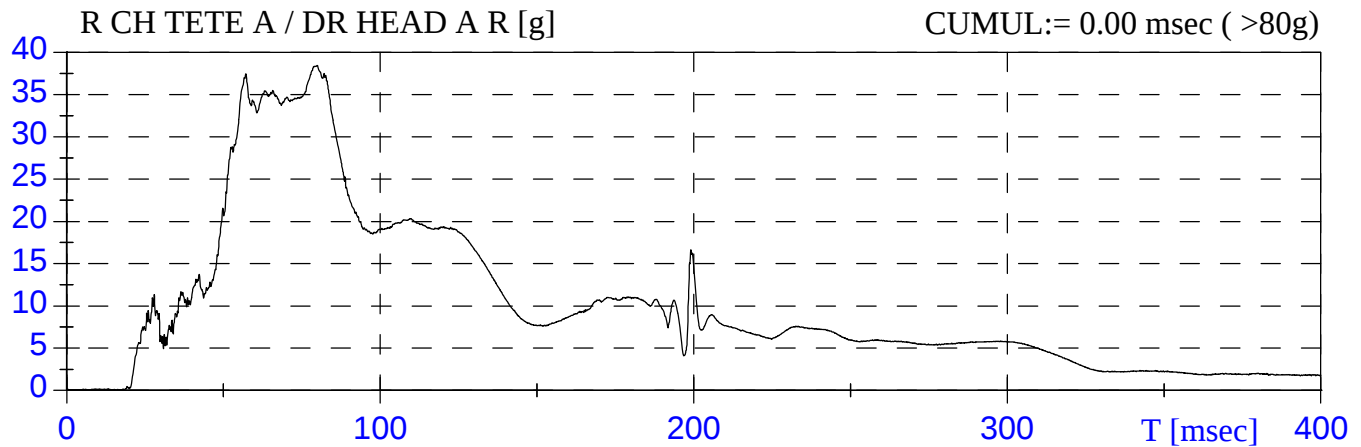
Mc := 225 N-m

Fc := 35.9 kN

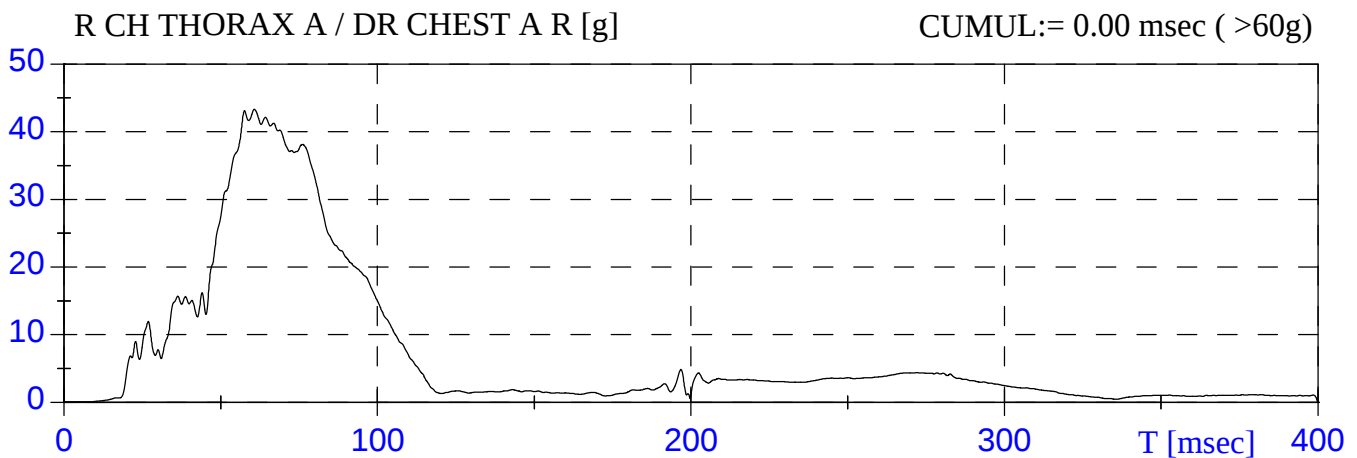
TIBIA	GAUCHE / LEFT	DROIT / RIGHT
HAUT / UPPER	0.559	0.426
BAS / LOWER	0.260	0.172

* Selon / According To: SAE J1727 AUG 96

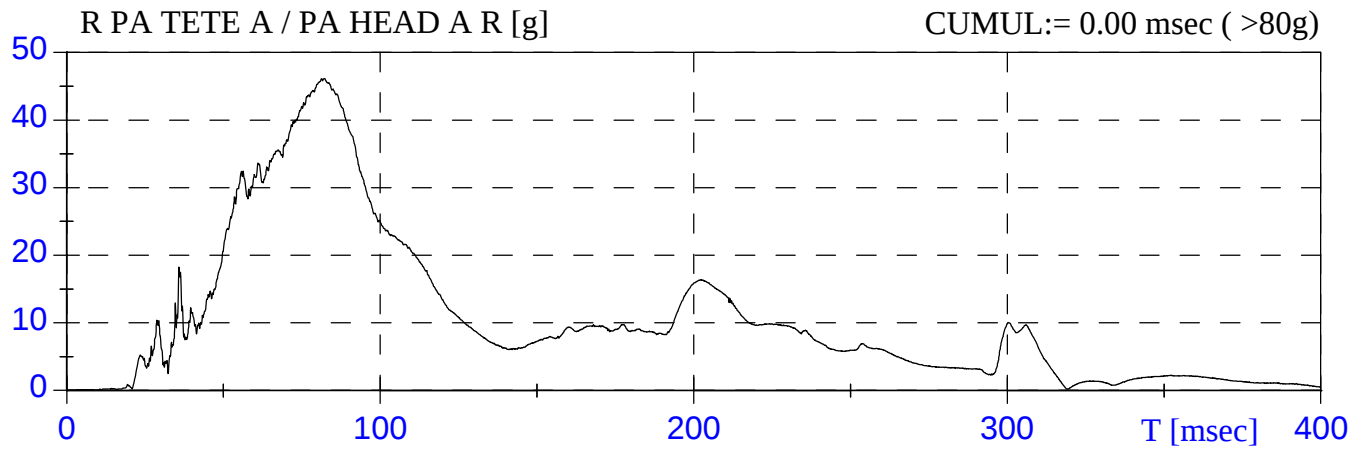
ACCÉLÉRATION DE LA TÊTE >80 g / HEAD ACCELERATION > 80 g



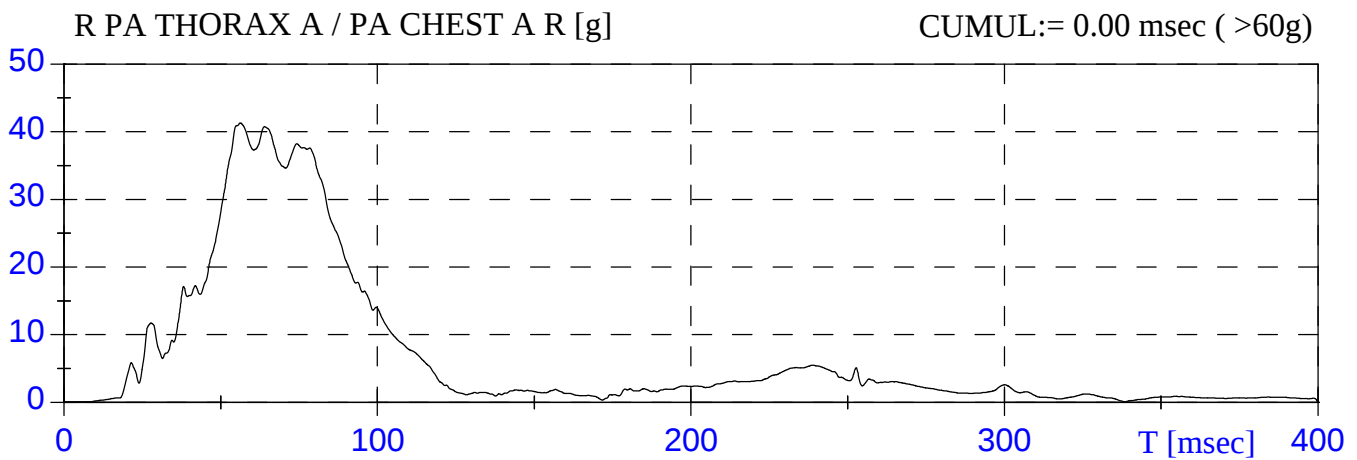
ACCÉLÉRATION DU THORAX >60 g / THORAX ACCELERATION > 60 g



ACCÉLÉRATION DE LA TÊTE >80 g / HEAD ACCELERATION > 80 g



ACCÉLÉRATION DU THORAX >60 g / THORAX ACCELERATION > 60 g



Chauffeur / Driver

$$N_{ij}^* = 0.27$$

Valeurs critiques
Criticals Values

N _{tf}	N _{te}	N _{cf}	N _{ce}	Tc	6806
				Cc	6160
0.22	0.27	0.20	0.10	Fc	310
				Ec	135

Passager / Passenger

$$N_{ij}^* = 0.36$$

Valeurs critiques
Criticals Values

N _{tf}	N _{te}	N _{cf}	N _{ce}	Tc	6806
				Cc	6160
0.12	0.35	0.11	0.36	Fc	310
				Ec	135

* Selon / According To: Federal Register 5/2000

Chauffeur / Driver

$$N_{ij}^* = 0.27$$

Valeurs critiques
Criticals Values

N _{tf}	N _{te}	N _{cf}	N _{ce}	Tc	6806
				Cc	6160
0.22	0.27	0.20	0.10	Fc	310
				Ec	135

Passager / Passenger

$$N_{ij}^* = 0.36$$

Valeurs critiques
Criticals Values

N _{tf}	N _{te}	N _{cf}	N _{ce}	Tc	6806
				Cc	6160
0.12	0.35	0.11	0.36	Fc	310
				Ec	135

* Selon / According To: Federal Register 5/2000