

**RAPPORT D'ESSAI - TEST REPORT
COLLISION FRONTALE DE RECHERCHE
RESEARCH FRONTAL IMPACT**

VÉHICULE D'ESSAI / TEST VEHICLE CHRYSLER 300 2005 TC # 05-218
--

**ESSAIS DE RECHERCHE CONJOINTS TC/NHTSA SUR LES
SACS GONFLABLES FRONTAUX
JOINT TC/NHTSA FRONTAL AIRBAGS RESEARCH TESTS**

Préparé par :
PMG TECHNOLOGIES
CENTRE D'ESSAIS ET DE RECHERCHE
100, rue du Landais
Blainville (Québec) J7C 5C9

N° de contrat : **05-5001**
Rapport N°: **RR05-238**

Pour :
TRANSPORTS CANADA
SÉCURITÉ ET SÛRETÉ
Programmes de sécurité routière
Recherche et essais de véhicules
Ottawa (Ontario)

Prepared by :
PMG TECHNOLOGIES
TEST AND RESEARCH CENTRE
100, rue du Landais
Blainville (Quebec) J7C 5C9

Contract N° : **05-5001**
Report N° : **RR05-238**

For :
TRANSPORT CANADA
SAFETY AND SECURITY
Research Engineering and
Vehicle Testing
Ottawa (Ontario)

Les résultats des essais figurant dans ce compte-rendu ne représentent pas une décision officielle du Ministère des Transports quant à l'acceptation de la performance sécuritaire, de la consommation de carburant ou de la conformité d'un véhicule ou des composantes d'un véhicule aux normes de sécurité et d'antipollution. Le Ministère des Transports ne certifie, n'approuve ou n'endosse aucun produit de véhicule automobile.

The test results presented herein do not, in themselves, represent an official determination by the Department of Transport with fuel consumption or compliance with safety and emission standards of any motor vehicle or motor vehicle component. The Department of Transport does not certify, approve or endorse any motor vehicle product.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	-------------------	---------------------	--------------------------	-------------------	---------------

VÉHICULE D'ESSAI - TEST VEHICLE

Fabricant - Manufacturer DAIMLERCHRYSLER CANADA INC.	Type de carrosserie - Body Style Berline 4P / 4D Sedan	Marque, modèle, Année - Make, model, Year CHRYSLER 300 2005
Classe de véhicule - Class of vehicle Tourisme / Passenger car	Boîte de vitesse - Transmission Type Auto. arrière / Auto. Rear wheel	Moteur - Engine V6 avant / V6 inline front
Date de fabrication - Date of Manufacture 12-04	Cylindres - Cylinders 3.5 Lit.	N° d'ident. du véhicule - Vehicle Ident. No. 2C3JA53G65H623427
Lecture de l'odomètre - Odometer Reading 11 km	Nombre de places assises désignées Number of Designated Seating Positions 5	Numéro d'ident. PMG - PMG Ident. Number UN5-220
PNBV - GVWR 2246 kg	PNBE (Avant) - GAWR (Front) 1275 kg	PNBE (Arrière) - GAWR (Rear) 1275 kg

CONFIGURATION D'ESSAI - TEST CONFIGURATION

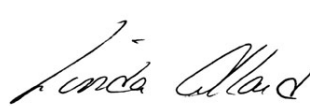
Type d'essai - Test type	Vitesse d'impact- Impact velocity		Angle d'impact Impact angle	Masse du véhicule d'essai Test vehicle mass
Véh. vs barrière - Veh. vs barrier	Prévu / Intended : 56.0 km/h	Obtenu / Obtained : 55.8 km/h	0 °	2033.6 kg
Description et position du mannequin (conducteur) Dummy description and position (driver) Description Hybrid III (5 %)	Position ** 0 mm	Description et position du mannequin (passager avant) Dummy description and position (front passenger) Description Hybrid III (5 %)	Position ** 0 mm	
Description et position du mannequin (passager arrière centre) Dummy description and position (centre rear passenger) Description Hybrid III (5 %)	Position ** N/A	Description et position du mannequin (passager arrière droit) Dummy description and position (right rear passenger) Description N/A	Position ** N/A	

RÉSULTATS GÉNÉRAUX - GENERAL RESULTS

Déploiement des sacs gonflables - Airbags deployment Coussins frontaux - Frontal airbags		Déploiement des sacs gonflables - Airbags deployment Coussins latéraux - Lateral airbags	
Conducteur / Driver	Passager / Passenger	Conducteur / Driver	Passager / Passenger
Déployé / Deployed 22.1ms	Déployé / Deployed 19.9ms	N/A 0.0	N/A 0.0
Rétracteurs de ceintures-prétensionneurs Seat belts retractors-pretensioners		Limiteur de charge des ceintures de sécurité Seat belts load limiter	
Conducteur / Driver	Passager / Passenger	Conducteur / Driver	Passager / Passenger
Déployé / Deployed	Déployé / Deployed	Non-équipé / Not equipped	Non-équipé / Not equipped

Essai réalisé selon la procédure de PMG : Collision frontale de recherche, version 3, révision 10 avril 2000.

Test performed according to PMG procedure: Research frontal impact, version 3, revised april 10, 2000.

Préparé par : Prepared by : 	Digitally signed by Pierre Beauchamp Date: 2005.09.14	Approuvé par : Approved by :	
Vérifié par : Verified by : 	Digitally signed by Linda Allard Date: 2005.09.14	Accepté par : Accepted by :	

* Tel qu'observé avec l'application d'une charge de 12V après l'essai.

* As observed by a 12V application after the test.

** Référence : 0 est la position la plus avancée. / ** Reference : 0 is the foremost position.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	-------------------	---------------------	--------------------------	-------------------	---------------

DONNÉES DU VÉHICULE D'ESSAI / TEST VEHICLE DATA

Capacité du véhicule - Vehicle Capacity		Masse des bagages - Cargo Load		Type de sièges – Type of seats			Types de dossiers - Type of seat back		
392 kg					Avt - Frt	Arr - Rr		Avt - Frt	Arr - Rr
Nombre d'occupants (places assises désignées) Number of Occupants (Designated Seating Positions)				Banquette Bench		X	Dossier ajustable Adjustable Seat Back	X	
Avant – Front 2 Arrière – Rear 3 Total 5				Baquet Bucket	X		Dossier non-ajustable Non-adjustable Seat Back		X
Volume de carburant pour l'essai Fuel system test volume				Pression à froid - Cold Tire Pressure			Dimension - Size		
61.88 l				Avant - Front 210 kPa Arrière - Rear 210 kPa Secours - Spare 420 kPa			P215/65R17		

PREMIÈRE PESÉE : VÉHICULE TEL QUE LIVRÉ (AVEC LIQUIDES AU MAXIMUM)

FIRST WEIGHT : VEHICLE AS RECEIVED (WITH MAXIMUM FLUIDS)

Avant gauche - Left front	Avant droit - Right front	Masse avant totale - Total front weight
451.8 kg	466.8 kg	918.6 kg
Arrière gauche - Left rear	Arrière droit - Right rear	Masse arrière totale - Total rear weight
387.9 kg	394.6 kg	782.5 kg
Masse totale côté gauche - Total left side weight	Masse totale côté droit - Total right side weight	Masse totale - Total weight
839.7 kg	861.4 kg	1701.1 kg

TROISIÈME PESÉE : VÉHICULE PRÊT POUR L'ESSAI

THIRD WEIGHT : VEHICLE READY FOR TEST

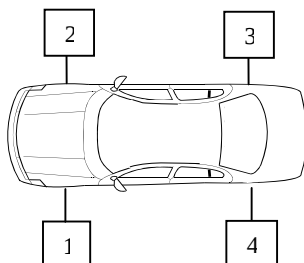
Avant gauche - Left front	Avant droit - Right front	Masse avant totale - Total front weight
471.6 kg	490.2 kg	961.8 kg
Arrière gauche - Left rear	Arrière droit - Right rear	Masse arrière totale - Total rear weight
536.4 kg	535.4 kg	1071.8 kg
Masse totale côté gauche - Total left side weight	Masse totale côté droit - Total right side weight	Masse totale - Total weight
1008.0 kg	1025.6 kg	2033.6 kg

ATTITUDE DU VÉHICULE / VEHICLE ATTITUDE

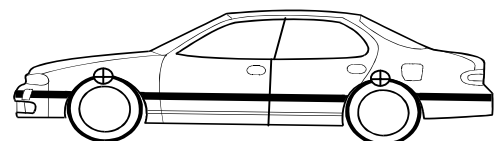
		Attitude tel que livré Attitude on delivery	Attitude tel que testé Attitude as tested
1	Roue avant gauche* Left front wheel*	787 mm	774 mm
2	Roue avant droite* Front right wheel*	784 mm	779 mm
3	Roue arrière droite* Rear right wheel*	786 mm	730 mm
4	Roue arrière gauche* Rear left wheel*	788 mm	744 mm

* Mesures prises aux puits de roues. // *Measurements taken at wheel openings.

Vue de plan / Plan view



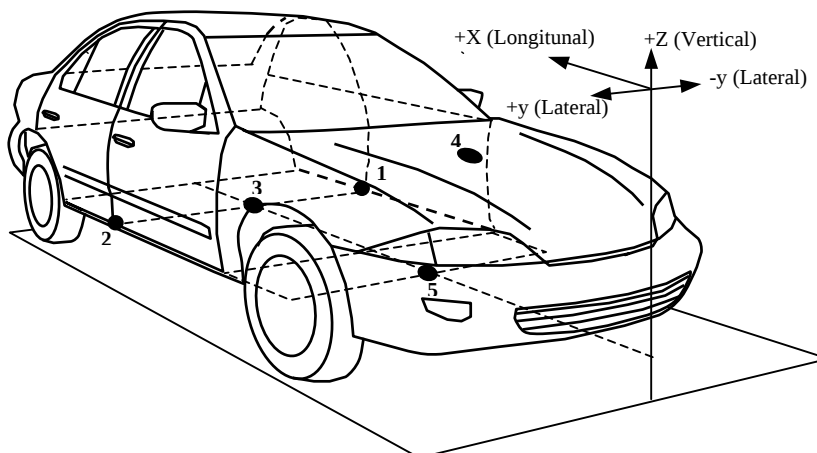
Vue de côté / Side view



⊕ Points de mesure / Measurement points

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------

EMPLACEMENT DES ACCÉLÉROMÈTRES
ACCELEROMETER LOCATIONS

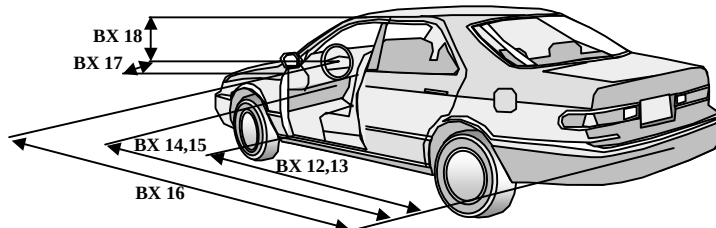
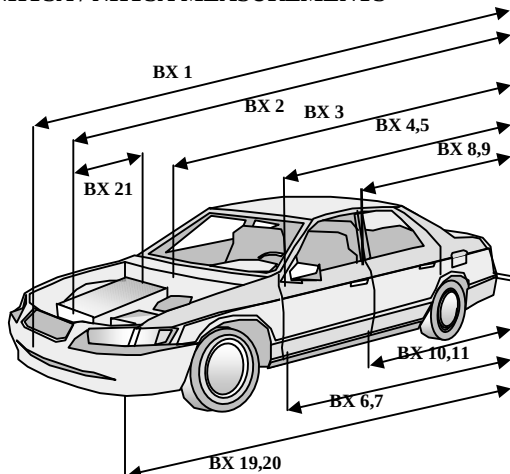


Point de référence : Centre transversal du véhicule, au point le plus avancé, au niveau du sol. Selon SAE J182a.
Reference point : Transversal center of the vehicle, at the foremost point and at ground level. As per SAE J182a.

EMPLACEMENT LOCATION	DESCRIPTIONS	COORDONNÉES / COORDINATES (mm)		
		X	Y	Z
#1	Seuil de la porte gauche @ pilier "B" Left door sill @ pillar "B"	-	-	-
#2	Seuil de la porte droite @ pilier "B" Right door sill @ pillar "B"	2810	622	245
#3	Centre de gravité Centre of gravity	3403	12	1055

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------

MESURES NHTSA / NHTSA MEASUREMENTS



- 1 - Longueur totale du véhicule
Total length of vehicle
- 2 - Surface arrière à l'avant du bloc moteur
Rear surface at front of engine block
- 3 - Surface arrière à la cloison pare-feu
Rear surface at fire-wall
- 4 - Surface arrière à la partie supérieure avant porte avant droite
Rear surface of front superior part of right front door
- 5 - Surface arrière à la partie supérieure avant porte avant gauche
Rear surface of front superior part of left front door
- 6 - Surface arrière à la partie inférieure avant porte avant droite
Rear surface of front inferior part of right front door
- 7 - Surface arrière à la partie inférieure avant porte avant gauche
Rear surface of front inferior part of left front door
- 8 - Surface arrière à la partie supérieure arrière porte avant droite
Rear surface of rear superior part of right rear door
- 9 - Surface arrière à la partie supérieure arrière porte avant gauche
Rear surface of rear superior part of left rear door
- 10 - Surface arrière à la partie inférieure arrière porte avant droite
Rear surface of rear inferior part of right rear door
- 11 - Surface arrière à la partie inférieure arrière porte avant gauche
Rear surface of rear inferior part of left rear door
- 12 - Surface arrière à la partie inférieure du pilier "A" droit
Rear surface of rear inferior part of right pillar "A"
- 13 - Surface arrière à la partie inférieure du pilier "A" gauche
Rear surface of rear inferior part of left pillar "A"
- 14 - Surface arrière à la cloison pare-feu côté droit
Rear surface of right side of fire-wall
- 15 - Surface arrière à la cloison pare-feu côté gauche
Rear surface of left side of fire-wall
- 16 - Surface arrière à la colonne de direction
Rear surface of steering column
- 17 - Centre de la colonne de direction au pilier "A"
Centre of steering column to pillar "A"
- 18 - Centre de la colonne de direction au toit
Centre of steering column to roof
- 19 - Surface arrière du véhicule au coin droit du pare-choc avant
Rear surface of vehicle to right corner of front bumper
- 20 - Surface arrière du véhicule au coin gauche du pare-choc avant
Rear surface of vehicle to left corner of front bumper
- 21 - Longueur du bloc moteur
Length of engine block

	BX*	AX**	Δx		BX*	AX**	Δx
1	4999	4561	438	12	3331	3328	3
2	4347	4149	198	13	3326	3322	4
3	3720	3681	39	14	3583	3564	19
4	3378	3375	3	15	3598	3557	41
5	3383	3382	1	16	2881	2874	7
6	3429	3429	0	17	432	436	-4
7	3441	3440	1	18	444	431	13
8	2291	2288	3	19	4914	4504	410
9	2282	2280	2	20	4907	4499	408
10	2334	2334	0	21	377	850	-473
11	2328	2326	2				

Mesures en mm / Measurements in mm

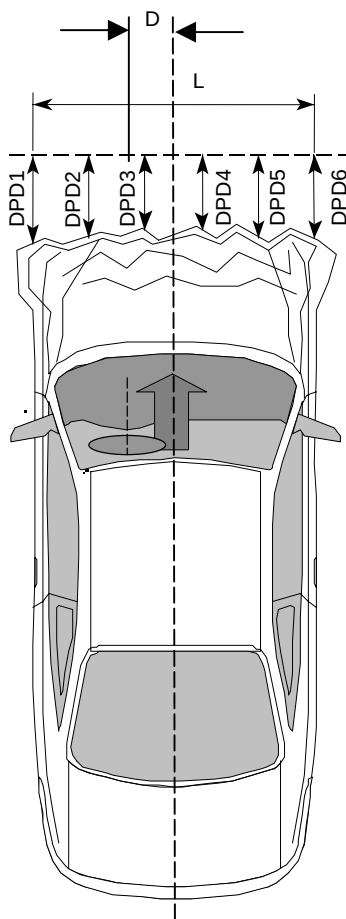
* BX : Mesures du véhicule avant-essai. / Pre-test vehicle measurements data.

** AX : Mesures du véhicule après-essai. / Post-test vehicle measurements data.

REMARQUES / COMMENTS : Aucune / None.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------

MESURES DES DPD / DPD'S MEASUREMENTS



DPD 1:
DPD 2:
DPD 3:
DPD 4:
DPD 5:
DPD 6:
MESURE L:
MEASUREMENT L:
MESURE D:
MEASUREMENT D:

AVANT ESSAI PRE-TEST	APRÈS ESSAI POST-TEST	Δx
206	515	-309
75	488	-413
14	460	-446
14	445	-431
74	475	-401
202	524	-322
	1551	
	0	

Mesures en mm / Measurements in mm

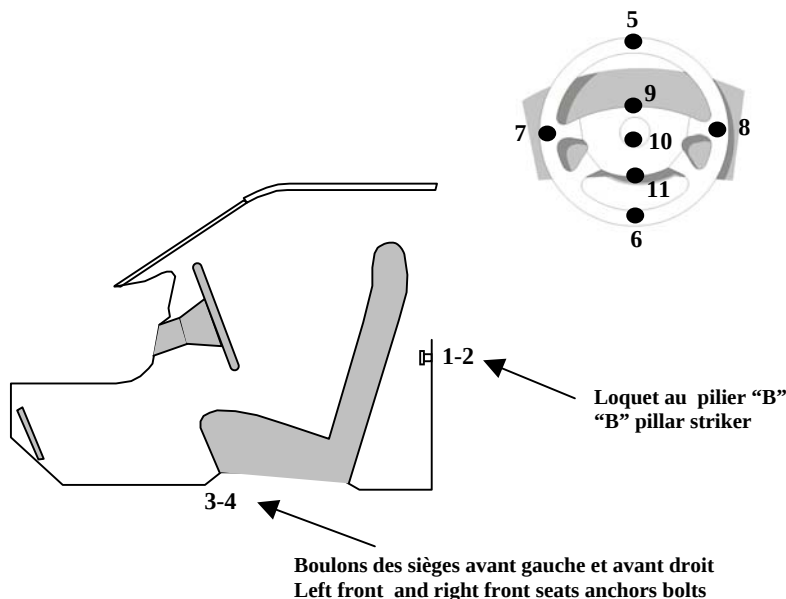
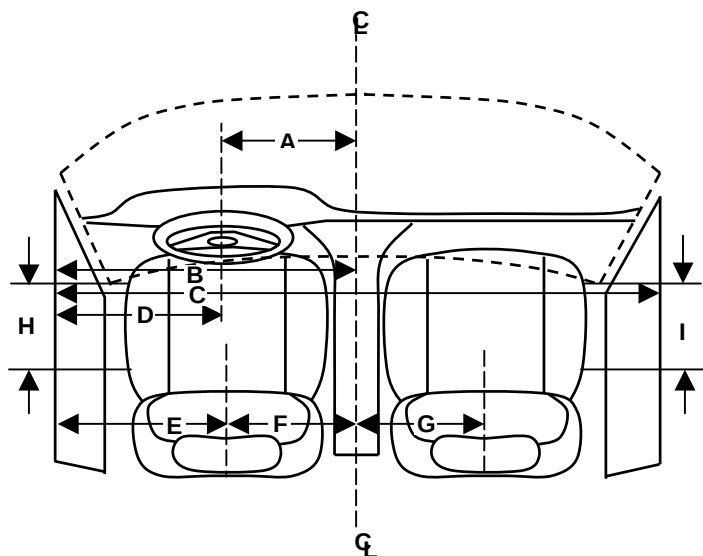
L : Longueur de la région endommagée
Length of damaged region

D : Distance du centre de déformation à la ligne de centre du véhicule
Midpoint of damage to Vehicle Longitudinal Centerline

REMARQUES / COMMENTS : Aucune / None.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------

MESURES DE VÉHICULE
VEHICLE MEASUREMENTS



Code	Description	mm
A	Centre du volant à la ligne de centre du véhicule Steering wheel center to center line of vehicle	374
B	Seuil de fenêtre à la ligne de centre du véhicule Window edge to center line of the vehicle	852
C	Fenêtre à fenêtre Window to window	1705
D	Centre du volant au seuil de la fenêtre Steering wheel center to window edge	478
E	Seuil de la fenêtre au centre du siège (conducteur) Window edge to seat midline (driver)	474
F	Centre du siège à la ligne de centre du véhicule (conducteur) Seat midline to center line of vehicle (driver)	378
G	Centre du siège à la ligne de centre du véhicule (passager) Seat midline to center line of vehicle (passenger)	377
H	Course du siège (conducteur) Seat travel (driver)	260
I	Course du siège (passager) Seat travel (passenger)	222
J	Ajustement du volant Steering wheel adjustment	48
K	Ajustement de la ceinture baudrier Upper torso belt adjustment	80

Code	Description	X(mm)	Y(mm)	Z(mm)
1	Loquet au pilier "B" (conducteur) "B" pillar striker (driver)	2610	-828	674
2	Loquet au pilier "B" (passager) "B" pillar striker (passenger)	2609	828	672
3	Boulon siège avant, extérieur (conducteur) Front seat bolt, outboard (driver)	2200	-595	340
4	Boulon siège avant, extérieur (passager) Front seat bolt, outboard (passenger)	2203	600	333
5	Jante du volant, centre haut Steering wheel rim, top centre	2060	-374	1117
6	Jante du volant, centre bas Steering wheel rim, bottom centre	2194	-374	752
7	Jante du volant, centre gauche Steering wheel rim, left centre	2120	-568	934
8	Jante du volant, centre droit Steering wheel rim, right centre	2135	-180	934
9	Moyeu du volant, centre haut Steering wheel hub, top centre	2087	-374	986
10	Moyeu du volant, centre Steering wheel hub, centre	2128	-374	916
11	Moyeu du volant, centre bas Steering wheel hub, bottom centre	2150	-374	845
12	Centre du volant Center of steering wheel	2118	-374	935

Point de référence : Centre transversal du véhicule, au point le plus avancé, au niveau du sol. Selon SAE J182a.
Reference point : Transversal center of the vehicle, at the foremost point and at ground level. As per SAE J182a.

Remarques - Comments: Aucune / None.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	-------------------	---------------------	--------------------------	-------------------	---------------

**POINTS DE MESURES DES CEINTURES DE SÉCURITÉ EN UTILISANT L'APPAREIL (BTD)
PASSENGER CAR BELT FIT MEASUREMENTS USING THE BELT DEPLOYMENT TEST DEVICE (BTD)**

Type de siège
Seat type

baquet / bucket ☒ banquette / bench ☐ banquette 60-40 / bench 60-40 ☐

Type de ceinture
Belt system

3 points ☒ passive ☐ active ☒ automatique / automatic ☐ motorisée / motorised ☐

Localisation du siège
Seat location

Av-G / F-L ☒ Av-D / F-R ☐ Arr-G / R-L ☐ Arr-D / R-R ☐

Espacement du genou gauche
Left knee spacing

100 mm

Espacement du genou droit
Right knee spacing

100 mm

Essai no: / Trial no:		1	2	3
Angle du dossier BTD Back pan angle		24.0 deg.	24.9 deg.	24.2 deg.
Angle de la cuvette BTD Seat pan angle		12.3 deg.	13.1 deg.	13.5 deg.
Angle du pied Foot angle	gauche / left	135 deg.	135 deg.	135 deg.
	droit / right	138 deg.	137 deg.	138 deg.
Angle du genou Knee angle	gauche / left	118 deg.	117 deg.	116 deg.
	droit / right	121 deg.	120 deg.	119 deg.
Mesure sous-abdominale Lap belt score	gauche / left	54 mm / 0 mm	54 mm / 0 mm	54 mm / 0 mm
	droit / right	46 mm / 0 mm	46 mm / 0 mm	46 mm / 0 mm
Ceinture en contact Belt in contact	gauche / left	Oui/Yes	Oui/Yes	Oui/Yes
	droit / right	Oui/Yes	Oui/Yes	Oui/Yes
Mesure ceinture baudrier Upper torso belt score	Sternum	196 mm / - *	200 mm / - *	200 mm / - *
	Clavicule	139 mm / 0 mm	142 mm / 0 mm	142 mm / 0 mm
Ceinture en contact Belt in contact	Clavicule	Oui/Yes	Oui/Yes	Oui/Yes

Mesure Score	/	Jeu Slack
-----------------	---	--------------

* Mesure ceinture baudrier (jeu sternum) : (-) signifie un jeu causé par l'appareil BTD. Impossible à éliminer.
* Upper torso belt score (sternum slack) : (-) means a slack impossible to eliminate due to BTD machine.

Remarques – Comments : **Aucune / None.**

**Selon le manuel d'opérations pour mesures géométriques des ceintures de sécurité, ébauche,
Transports Canada, janvier 1993.
As per the operational manual for the belt deployment test device,
draft, Transport Canada, January 1993.**

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	-------------------	---------------------	--------------------------	-------------------	---------------

**POINTS DE MESURES DES CEINTURES DE SÉCURITÉ EN UTILISANT L'APPAREIL (BTD)
PASSENGER CAR BELT FIT MEASUREMENTS USING THE BELT DEPLOYMENT TEST DEVICE (BTD)**

Type de siège
Seat type

baquet / bucket ☒ banquette / bench ☐ banquette 60-40 / bench 60-40 ☐

Type de ceinture
Belt system

3 points ☒ passive ☐ active ☒ automatique / automatic ☐ motorisée / motorised ☐

Localisation du siège
Seat location

Av-G / F-L ☐ Av-D / F-R ☒ Arr-G / R-L ☐ Arr-D / R-R ☐

Espacement du genou gauche
Left knee spacing

67 mm

Espacement du genou droit
Right knee spacing

107 mm

Essai no: / Trial no:		1	2	3
Angle du dossier BTD Back pan angle		23.9 deg.	24.6 deg.	24.1 deg.
Angle de la cuvette BTD Seat pan angle		10.7 deg.	13.4 deg.	13.1 deg.
Angle du pied Foot angle	gauche / left	141 deg.	139 deg.	140 deg.
	droit / right	138 deg.	136 deg.	137 deg.
Angle du genou Knee angle	gauche / left	126 deg.	120 deg.	123 deg.
	droit / right	123 deg.	116 deg.	118 deg.
Mesure sous-abdominale Lap belt score	gauche / left	47 mm / 0 mm	44 mm / 0 mm	45 mm / 0 mm
	droit / right	54 mm / 0 mm	52 mm / 0 mm	52 mm / 0 mm
Ceinture en contact Belt in contact	gauche / left	Oui/Yes	Oui/Yes	Oui/Yes
	droit / right	Oui/Yes	Oui/Yes	Oui/Yes
Mesure ceinture baudrier Upper torso belt score	Sternum	188 mm / - *	183 mm / - *	184 mm / - *
	Clavicule	135 mm / 0 mm	132 mm / 0 mm	134 mm / 0 mm
Ceinture en contact Belt in contact	Clavicule	Oui/Yes	Oui/Yes	Oui/Yes

Mesure Score	/	Jeu Slack
-----------------	---	--------------

* Mesure ceinture baudrier (jeu sternum) : (-) signifie un jeu causé par l'appareil BTD. Impossible à éliminer.
* Upper torso belt score (sternum slack) : (-) means a slack impossible to eliminate due to BTD machine.

Remarques - Comments: **Aucune / None.**

**Selon le manuel d'opérations pour mesures géométriques des ceintures de sécurité, ébauche, Transports Canada, janvier 1993.
As per the operational manual for the belt deployment test device, draft, Transport Canada, January 1993.**

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------

POSITIONNEMENT DES MANNEQUINS / MEASUREMENTS OF DUMMY POSITIONS

		MESURES / MEASUREMENTS :					
Conducteur/Driver : Hybrid III (5 %)		Toutes les mesures sont en mm / All measurements are in mm					
Angle du pelvis - Pelvic angle :	22.1°						
Angle transversal - Transversal angle :	0.3°	Conducteur / Driver			Passager / Passenger		
Angle de la tête - Head angle :	0.0°	Ajustement du siège : Seat adjustment :			Ajustement du siège : Seat adjustment :		
Seuil de porte - Door sill :	0.0°	Électrique / Electrical			Micro-crans / Micro notches		
Mouvement du lacet / Yaw movement :	3 mm	Angle du dossier : Seat back angle :			Angle du dossier : Seat back angle :		
Position de la rail du siège / Seat track position * :	0 mm	16.3 °			7.2 °		
Passager avant/Front Passenger: Hybrid III (5 %)		X	Y	Z	X	Y	Z
Angle du pelvis - Pelvic angle :	21.6°	2437	-450	1136	2412	443	1134
Angle transversal - Transversal angle :	0.2°	2287	-542	578	2281	539	574
Angle de la tête - Head angle :	0.0°						
Seuil de porte - Door sill :	0.0°						
Mouvement du lacet / Yaw movement :	3 mm						
Position de la rail du siège / Seat track position * :	0 mm						
Cible de tête / Head target :		2437	-450	1136	2412	443	1134
Point-H / H-Point :		2287	-542	578	2281	539	574
Rotule / Knee joint :		1960	-522	652	1951	515	660

Remarques – Comments : Aucune / None.

* Référence : 0 est la position la plus avancée.

* Reference : 0 is the foremost position.

Selon la procédure de positionnement de mannequin 5^e percentile Hybrid III, 49 CFR 552, 571, 585 and 595, Docket No. NHTSA 00-7013; Notice 1, RIN 2127-AG70, Federal Motor Vehicle Safety Standards, Occupant Crash Protection (Paragraphe S16.3).

As per procedure for placement of a 5th percentile Hybrid III 49 CFR 552, 571, 585 and 595, Docket No. NHTSA 00-7013; Notice 1, RIN 2127-AG70, Federal Motor Vehicle Safety Standards, Occupant Crash Protection (Section S16.3).

Point de référence : Centre transversal du véhicule, au point le plus avancé, au niveau du sol. Selon SAE J182a.

Reference point : Transversal center of the vehicle, at the foremost point and at ground level. As per SAE J182a.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	-------------------	---------------------	--------------------------	-------------------	---------------

POSITIONNEMENT DES MANNEQUINS / MEASUREMENTS OF DUMMY POSITIONS

		<u>MESURES / MEASUREMENTS :</u>					
Passager arrière centre : Rear centre passenger :		Toutes les mesures sont en mm / All measurements are in mm					
Angle du pelvis - Pelvic angle :		Passager arrière centre Rear centre passenger			Passager arrière droit Rear right passenger		
Angle transversal - Transversal angle :		Ajustement du siège : Seat adjustment :			Ajustement du siège : Seat adjustment :		
Angle de la tête - Head angle :		N/A			N/A		
Mouvement du lacet / Yaw movement :		Ajustement du dossier : Seat back adjustment :			Ajustement du dossier : Seat back adjustment :		
Passager arrière droit : Rear right passenger :		N/A			N/A		
Angle du pelvis - Pelvic angle :		X			X		
Angle transversal - Transversal angle :		Y			Y		
Angle de la tête - Head angle :		Z			Z		
Mouvement du lacet / Yaw movement :		N/A			N/A		
Cible de tête / Head target :		3488	-61	1161			
Point-H / H-Point :		3370	-151	593			
Rotule / Knee joint :		3037	-153	611			

Remarques – Comments : Aucune / None.

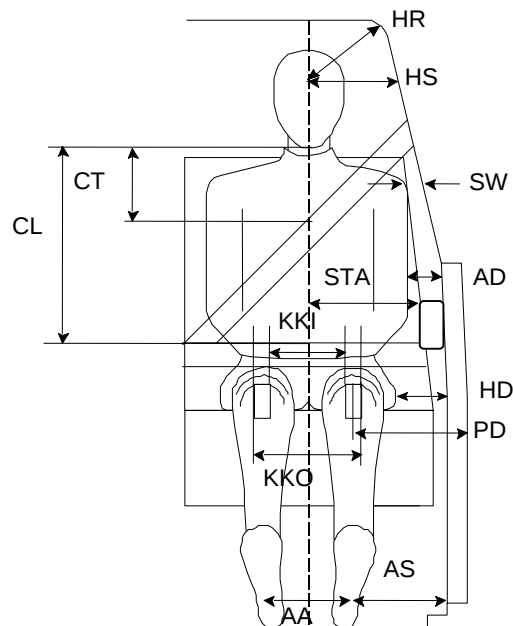
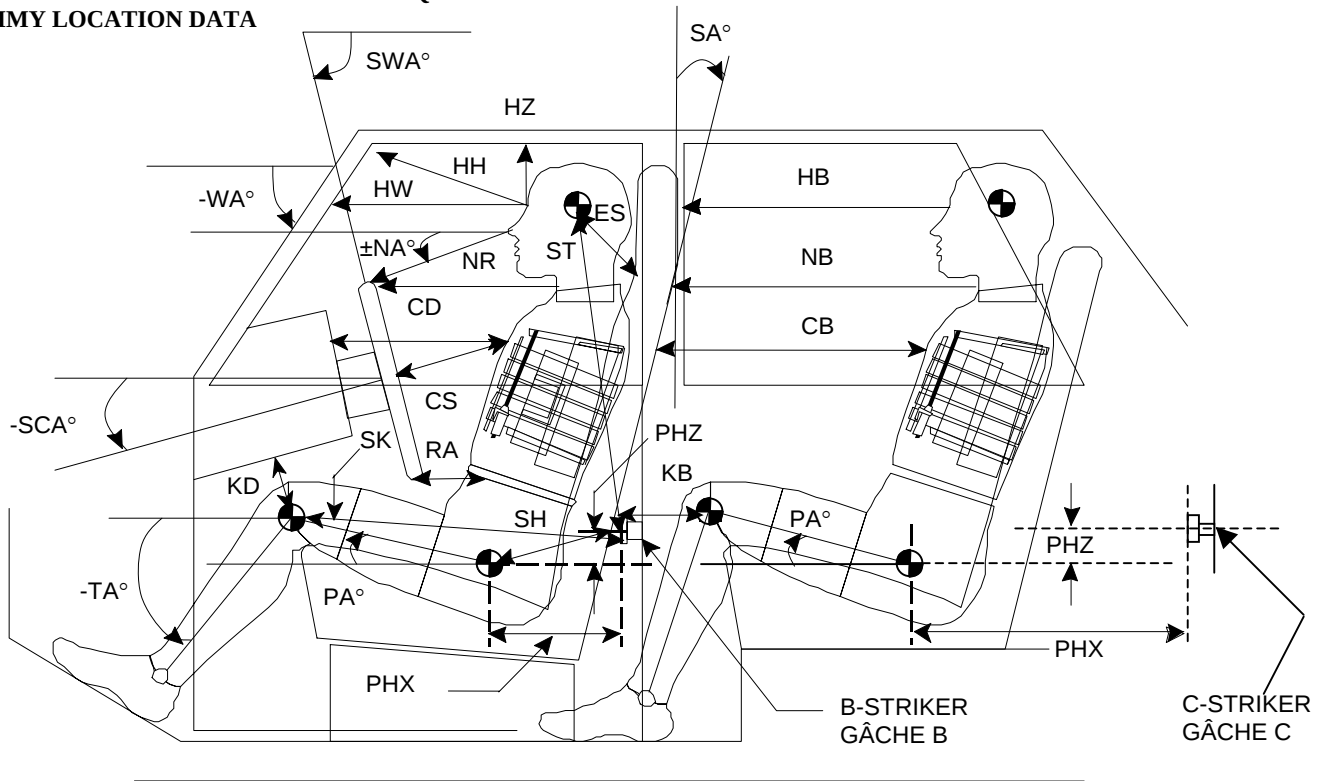
Selon la procédure de positionnement de mannequin 5^e percentile Hybrid III, 49 CFR 552, 571, 585 and 595, Docket No. NHTSA 00-7013; Notice 1, RIN 2127-AG70, Federal Motor Vehicle Safety Standards, Occupant Crash Protection (Paragraphe S16.3).

As per procedure for placement of a 5th percentile Hybrid III 49 CFR 552, 571, 585 and 595, Docket No. NHTSA 00-7013; Notice 1, RIN 2127-AG70, Federal Motor Vehicle Safety Standards, Occupant Crash Protection (Section S16.3).

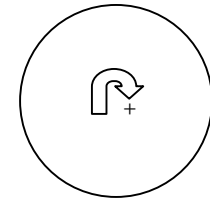
Point de référence : Centre transversal du véhicule, au point le plus avancé, au niveau du sol. Selon SAE J182a.
Reference point : Transversal center of the vehicle, at the foremost point and at ground level. As per SAE J182a.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------

COTES DE LOCALISATION DES MANNEQUINS
DUMMY LOCATION DATA



référence
reference :



Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	-------------------	---------------------	--------------------------	-------------------	---------------

**COTES DE LOCALISATION DES MANNEQUINS (suite)
DUMMY LOCATION DATA (continued)**

(Mesures prises en mm / Measurements taken in mm)

DESCRIPTION	CODE	CONDUCTEUR DRIVER	PASSAGER Av. F. PASSENGER	PASSAGER Arr.C. C.R. PASSENGER	PASSAGER Arr.D. R.R. PASSENGER
De cheville à cheville (boulon extérieur) Ankle to ankle (exterior bolt)	AA	310	240		
Genou à genou (plaque) Intérieur / Interior Centre / Center Knee to knee (plate) Extérieur / Extérieur	KKI	120	95	160	
	KKC	190	165	230	
	KKO	260	235	300	
De la cheville jusqu'au seuil de porte (horizontalement) Ankle to door sill (horizontal)	AS	210	180		
Centre du genou au tableau de bord ou siège horizontalement (minimum) Knees centre to dash or seat back horizontal (minimum)	KDL	35	35		
	KDR	40	40		
Sternum au tableau de bord (horizontalement) Chest to dash (horizontal)	CD		370		
Milieu du sternum au centre du moyeu du volant ou siège avant Mid sternum to steering hub center or front seat	CS/CB	210			
Milieu du front jusqu'au pare-brise (horizontalement) Mid forehead to windshield (horizontal)	HW	755	748		
Milieu du front jusqu'au haut du pare-brise Mid forehead to windshield header	HH	485	440		
Nez à la jante du volant de direction (haut) ou siège avant Nose to steering wheel rim (top) or front seat	NR/HB	250			
Milieu du front jusqu'au début du toit Mid forehead to edge roof	HR	265	280		
Haut de l'oreille au haut du siège avant Ear top to front seat top	ES	298	250		
Menton au haut de la ceinture sous-abdominale (verticalement) Chin to lap belt upper edge (vertical)	CL	370	350		
Menton au haut de la ceinture baudrier (verticalement) Chin to thorax belt upper edge (vertical)	CT	130	140		
Milieu du front à la fenêtre latérale (horizontalement) Mid forehead to side window (horizontal)	HS	370	370		
La rotule à la porte (horizontalement) Patella to door (horizontal)	PD	200	205		
Du point-H à la porte (horizontalement) H-point to door (horizontal)	HD	250	220		
Du milieu du bras à la porte (horizontalement) Mid upper arm to door (horizontal)	AD	140	203		
Cou jusqu'au volant ou tableau de bord (horizontalement) ou siège avant Neck to steering wheel or dash board (horizontal) or front seat	NB	350	510		
Épaule à la fenêtre de côté Shoulder to side window	SW	185	206		
Abdomen à l'appui-bras Abdomen to armrest	STA	185	195		
Milieu du front au toit (verticalement) Mid forehead to roof (vertical)	HZ	245	240		
Tête au loquet (plan (x,z)) Striker to head ((x,z) plan)	ST	493	502		
Abdomen à la jante du volant de direction (bas) Steering wheel rim to abdomen (bottom)	RA	82			
Genou au loquet (plan (x,z)) Striker to knee ((x,z) plan)	SK	650	658		
Point-H au loquet (plan (x,z)) Striker to H-Point ((x,z) plan)	SH	337	342		
Point-H au loquet en X (horizontalement) Striker to H-Point in X (horizontal)	PHX	323	328		
Point-H au loquet en Z (verticalement) Striker to H-Point in Z (vertical)	PHZ	96	98		

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------

COTES DE LOCALISATION DES MANNEQUINS (suite)

DUMMY LOCATION DATA (continued)

(Mesures prises en deg. / Measurements taken in deg.)

DESCRIPTION	CODE	CONDUCTEUR DRIVER	PASSAGER Av. F. PASSENGER	PASSAGER Arr.G. L.R. PASSENGER	PASSAGER Arr.D. R.R. PASSENGER
Angle du volant Steering wheel angle	+SWA	20.4°			
Angle du pare-brise Windshield angle	-WA	-32.5°			
Angle de la colonne de direction Steering column angle	-SCA	23.4°			
Angle du tibia gauche Left tibial angle	-TA	-26.6°	-33.0°		
Angle du tibia droit Right tibial angle	-TA	-27.3°	-30.0°		
Angle pelvis Pelvic angle	+PA	22.1°	21.6°		
Angle du nez à la jante de direction (haut) Nose to steering wheel rim (top) angle	±NA	0.7°			
Angle du dossier Seat back angle	+SA	16.3°	7.2°		
Angle ST (horizontalement) ST angle (horizontal)	+ST-A	69.5°	66.9°		
Angle SK (horizontalement) SK angle (horizontal)	±SK-A	-1.9°	-1.0°		
Angle SH (horizontalement) SH angle (horizontal)	-SH-A	-16.6°	-16.6°		

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	-------------------	---------------------	--------------------------	-------------------	---------------

**MESURES DE MANNEQUIN DAE
TEST DUMMY MEASUREMENTS**

CONDUCTEUR / DRIVER

Description et emplacement du Mannequin
ATD description and location :

DESCRIPTION	X(mm)	Y(mm)	Z(mm)
Centre de gravité de la tête, extérieur - Head CG, outboard	2437	-450	1136
Base du nez - Glabella (root of nose)	2348	-381	1151
Menton - Chin (bottom)	2347	-381	1040
Jonction menton et cou - Chin / neck junction	2413	-381	1060
Thorax au niveau des côtes supérieures - Chest at upper rib level	2324	-385	882
Thorax au niveau des côtes inférieures - Chest at lower rib level	2295	-382	776
Boulon supérieur avant de l'épaule, ext. - Shoulder bolt, top front outboard	2462	-546	910
Boulon supérieur avant de l'épaule, int. - Shoulder bolt, top front inboard	2474	-227	917
Boulon du coude, extérieur - Elbow bolt, outboard	2308	-675	830
Boulon du coude, intérieur - Elbow bolt, inboard	2315	-78	876
Boulon du poignet, extérieur - Wrist bolt, outboard	2147	-610	958
Boulon du poignet, intérieur - Wrist bolt, inboard	2156	-159	997
Point d'articulation de la hanche, extérieur - Hip point, outboard	2376	-503	612
Boulon du genou gauche, extérieur - Knee bolt, left leg, outboard	1959	-519	656
Boulon de la cheville gauche, extérieur - Ankle bolt, left leg , outboard	1782	-491	360
Point du talon gauche - Heel point, left leg	1850	-499	255
Plante du pied gauche vs plancher - Ball of foot at toeboard contact, left leg	1714	-536	276
Boulon du genou droit, intérieur - Knee bolt, right leg , inboard	1950	-325	647
Boulon de la cheville droite, intérieur - Ankle bolt, right leg , inboard	1742	-267	386
Point du talon droit - Heel point, right leg	1759	-266	266
Plante du pied droit vs plancher - Ball of foot at toeboard contact, right leg	1650	-296	340

Remarques – Comments : Aucune / None.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	-------------------	---------------------	--------------------------	-------------------	---------------

**MESURES DE MANNEQUIN DAE
TEST DUMMY MEASUREMENTS**

PASSAGER / PASSENGER

Description et emplacement du Mannequin
ATD description and location:

DESCRIPTION	X(mm)	Y(mm)	Z(mm)
Centre de gravité de la tête, extérieur - Head CG, outboard	2412	443	1134
Base du nez - Glabella (root of nose)	2322	379	1145
Menton - Chin (bottom)	2319	379	1040
Jonction menton et cou - Chin / neck junction	2391	380	1060
Thorax au niveau des côtes supérieures - Chest at upper rib level	2298	376	843
Thorax au niveau des côtes inférieures - Chest at lower rib level	2269	377	729
Boulon supérieur avant de l'épaule, ext. - Shoulder bolt, top front outboard	2441	528	900
Boulon supérieur avant de l'épaule, int. - Shoulder bolt, top front inboard	-	-	-
Boulon du coude, extérieur - Elbow bolt, outboard	2367	591	698
Boulon du coude, intérieur - Elbow bolt, inboard	2357	175	700
Boulon du poignet, extérieur - Wrist bolt, outboard	2158	544	663
Boulon du poignet, intérieur - Wrist bolt, inboard	2147	198	653
Point d'articulation de la hanche, extérieur - Hip point, outboard	2368	495	612
Boulon du genou gauche, intérieur - Knee bolt, left leg, inboard	1942	348	658
Boulon de la cheville gauche, intérieur - Ankle bolt, left leg, inboard	1746	334	379
Point du talon gauche - Heel point, left leg	1821	324	285
Plante du pied gauche vs plancher - Ball of foot at toeboard contact, left leg	1694	375	287
Boulon du genou droit, extérieur - Knee bolt, right leg, outboard	1951	516	661
Boulon de la cheville droite, extérieur - Ankle bolt, right leg, outboard	1771	502	368
Point du talon droit - Heel point, right leg	1851	499	280
Plante du pied droit vs plancher - Ball of foot at toeboard contact, right leg	1709	552	284

Remarques – Comments : Aucune / None.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	-------------------	---------------------	--------------------------	-------------------	---------------

**MESURES DE MANNEQUIN DAE
TEST DUMMY MEASUREMENTS**

PASSAGER ARRIÈRE CENTRE / CENTRE REAR PASSENGER

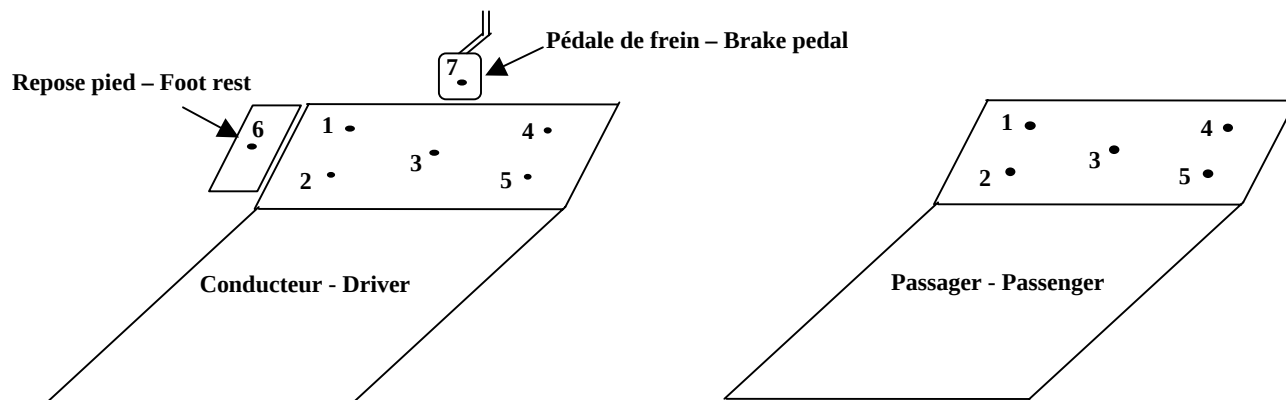
Description et emplacement du Mannequin
ATD description and location:

DESCRIPTION	X(mm)	Y(mm)	Z(mm)
Centre de gravité de la tête, extérieur - Head CG, outboard	3488	-61	1161
Base du nez - Glabella (root of nose)	-	-	-
Menton - Chin (bottom)	-	-	-
Jonction menton et cou - Chin / neck junction	-	-	-
Thorax au niveau des côtes supérieures - Chest at upper rib level	-	-	-
Thorax au niveau des côtes inférieures - Chest at lower rib level	-	-	-
Boulon supérieur avant de l'épaule, ext. - Shoulder bolt, top front outboard	3521	-147	920
Boulon supérieur avant de l'épaule, int. - Shoulder bolt, top front inboard	-	-	-
Boulon du coude, extérieur - Elbow bolt, outboard	3525	-187	702
Boulon du coude, intérieur - Elbow bolt, inboard	-	-	-
Boulon du poignet, extérieur - Wrist bolt, outboard	3319	-173	639
Boulon du poignet, intérieur - Wrist bolt, inboard	-	-	-
Point d'articulation de la hanche, extérieur - Hip point, outboard	-	-	-
Boulon du genou gauche, intérieur - Knee bolt, left leg, inboard	3035	-147	611
Boulon de la cheville gauche, intérieur - Ankle bolt, left leg, inboard	2880	-160	413
Point du talon gauche - Heel point, left leg	2932	-185	221
Plante du pied gauche vs plancher - Ball of foot at toeboard contact, left leg	2774	-238	266
Boulon du genou droit, extérieur - Knee bolt, right leg, outboard	-	-	-
Boulon de la cheville droite, extérieur - Ankle bolt, right leg, outboard	-	-	-
Point du talon droit - Heel point, right leg	-	-	-
Plante du pied droit vs plancher - Ball of foot at toeboard contact, right leg	-	-	-

Remarques – Comments : Aucune / None.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------

MESURES PLANCHER / FOOTWELL MEASUREMENTS

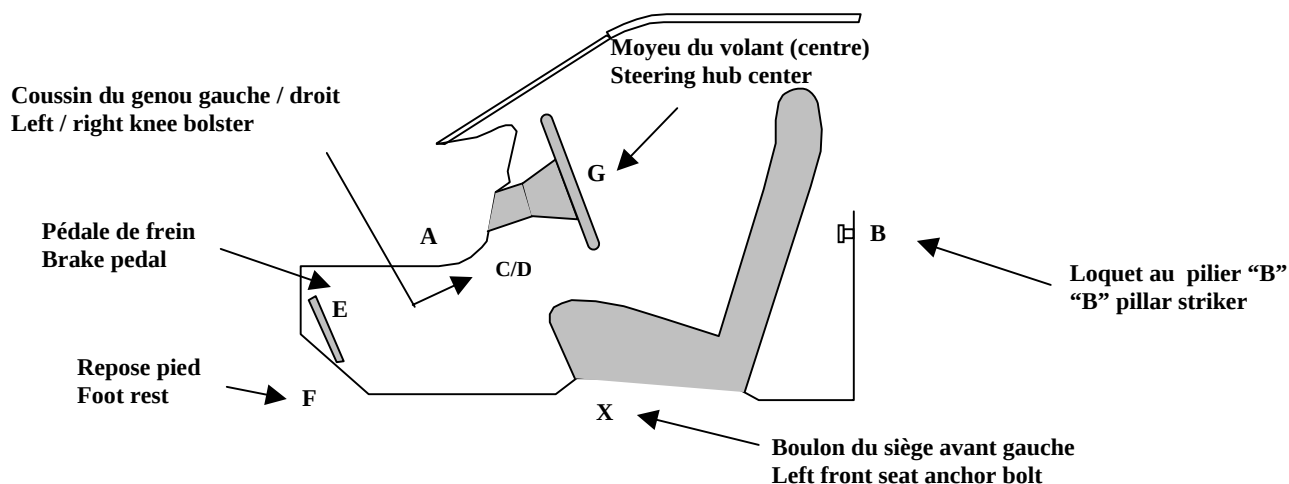


N° Cible	AVANT ESSAI	APRÈS ESSAI	
Target No.	PRE-TEST	POST-TEST	Δ mm
1	x	1446	1465
	y	-493	-502
	z	395	417
2	x	1486	1485
	y	-480	-487
	z	288	307
3	x	1435	1469
	y	-367	-374
	z	346	369
4	x	1423	1462
	y	-290	-295
	z	381	406
5	x	1521	1519
	y	-290	-297
	z	288	308
6	x	1586	1598
	y	-621	-623
	z	397	407
7	x	1612	1655
	y	-392	-401
	z	443	469

N° Cible	AVANT ESSAI	APRÈS ESSAI	
Target No.	PRE-TEST	POST-TEST	Δ mm
1	x	1428	1435
	y		
	z		
2	x	1463	1461
	y		
	z		
3	x	1452	1455
	y		
	z		
4	x	1463	1472
	y	557	566
	z	401	415
5	x	1494	1492
	y	555	561
	z	290	303

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------

PÉNÉTRATION DE L'HABITACLE DU CONDUCTEUR (Distances en mm)
DRIVER COMPARTMENT INTRUSION (Distances in mm)



Habitacle du conducteur
Driver's compartment

	DESCRIPTION	Avant essai / Pre-test			Après essai / Post-test		
		X	Y	Z	X	Y	Z
A	Ouverture de porte Door opening	1873	-817	1013	1874	-843	1014
B	Loquet au pilier "B" "B" pillar striker	2610	-828	674	2610	-829	674
C	Coussin du genou gauche Left knee bolster	1883	-469	716	1880	-481	723
D	Coussin du genou droit Right knee bolster	1877	-261	714	1873	-273	726
E	Pédale de frein Break pedal	1612	-392	443	1655	-401	469
F	Repose pied Foot rest	1586	-621	397	1598	-623	407
G	Moyeu du volant (centre) Steering hub (center)	2128	-374	916	2127	-394	959
X	Boulon du siège avant gauche Left front seat anchor bolt	2200	-595	340	2199	-594	345

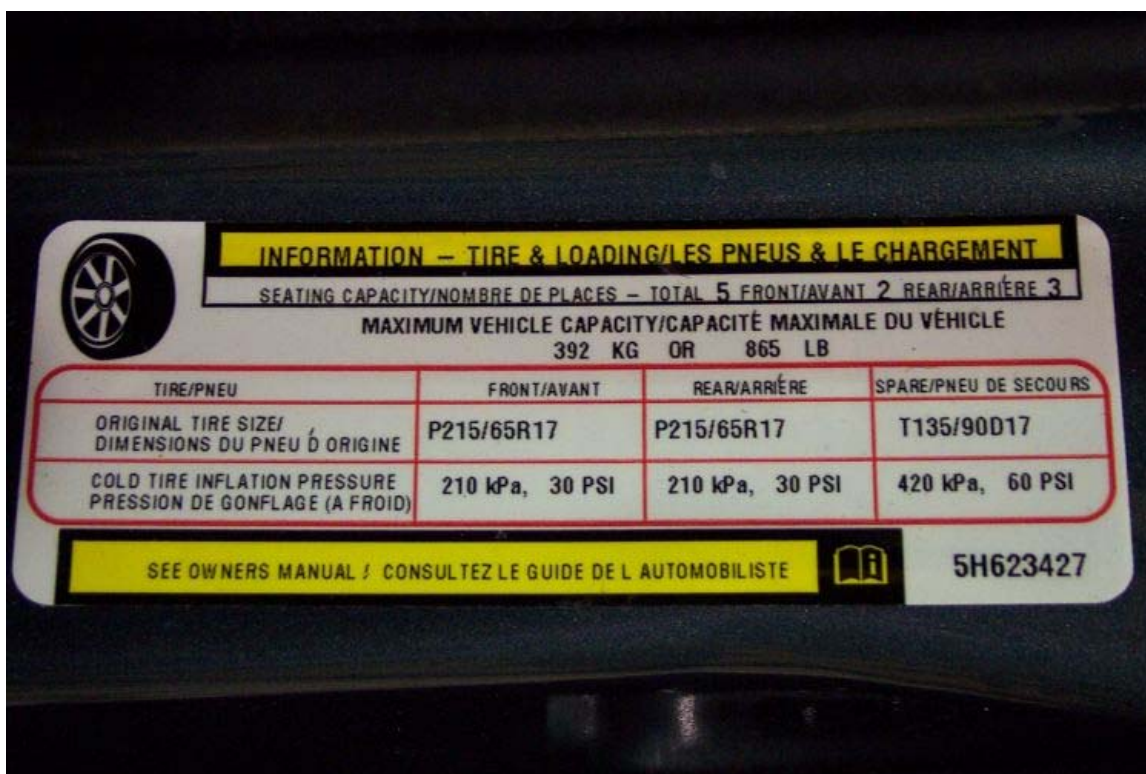
APPENDICE / APPENDIX A

**PHOTOGRAPHIES DE L'ESSAI
TEST PHOTOGRAPHS**

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------



1. Étiquette de déclaration de conformité du véhicule d'essai.
Statement of compliance label of the test vehicle.



2. Étiquette d'information des pneus.
Tire information label.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------



3. Vue $\frac{3}{4}$ avant du véhicule d'essai.
 $\frac{3}{4}$ front view of the test vehicle.



4. Vue $\frac{3}{4}$ arrière du véhicule d'essai.
 $\frac{3}{4}$ rear view of the test vehicle.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------



5. Vue générale côté gauche du véhicule d'essai, avant essai.
Left side view of the test vehicle, pre-test.



6. Vue générale côté gauche du véhicule d'essai, après essai.
Left side view of the test vehicle, post-test.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------



7. Vue arrière du véhicule d'essai, avant essai.
Rear view of the test vehicle, pre-test.



8. Vue arrière du véhicule d'essai, après essai.
Rear view of the test vehicle, post-test.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------



9. Vue générale côté droit du véhicule d'essai, avant essai.
General right side view of the test vehicle, pre-test.

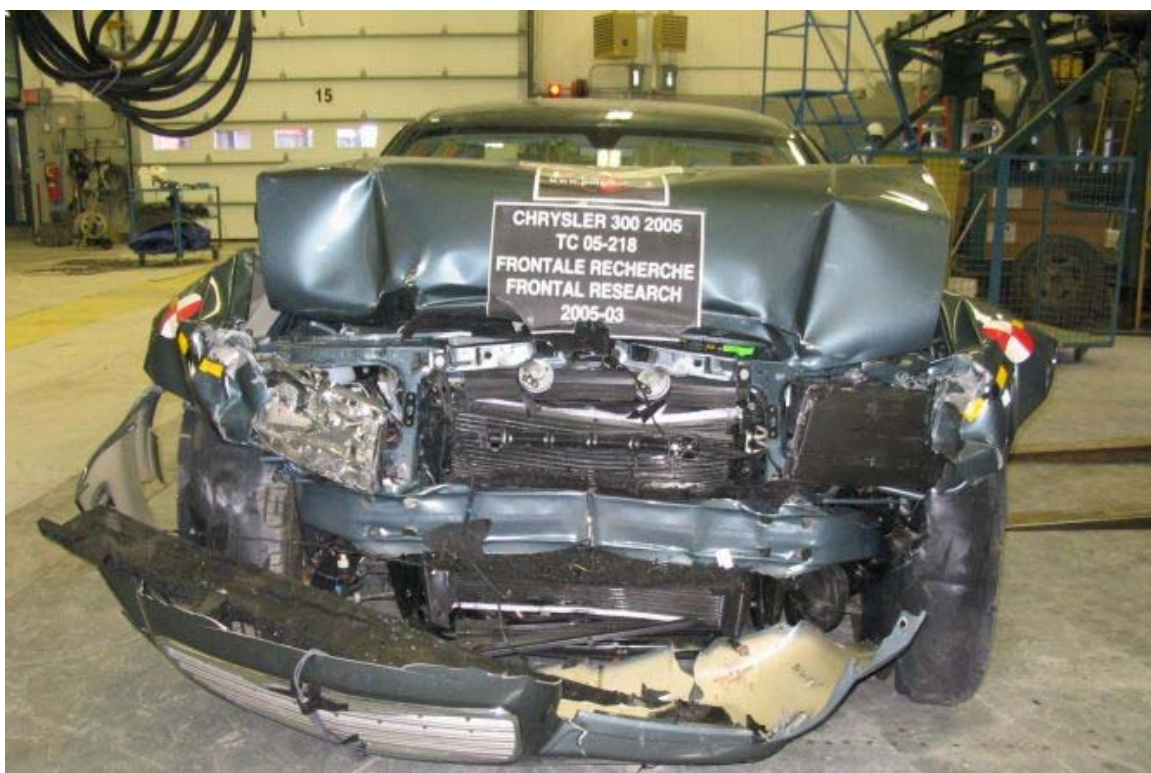


10. Vue générale côté droit du véhicule d'essai, après essai.
General right side view of the test vehicle, post-test.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------



11. Vue avant du véhicule d'essai, avant essai.
Front view of the test vehicle, pre-test.



12. Vue avant du véhicule d'essai, après essai.
Front view of the test vehicle, post-test.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------

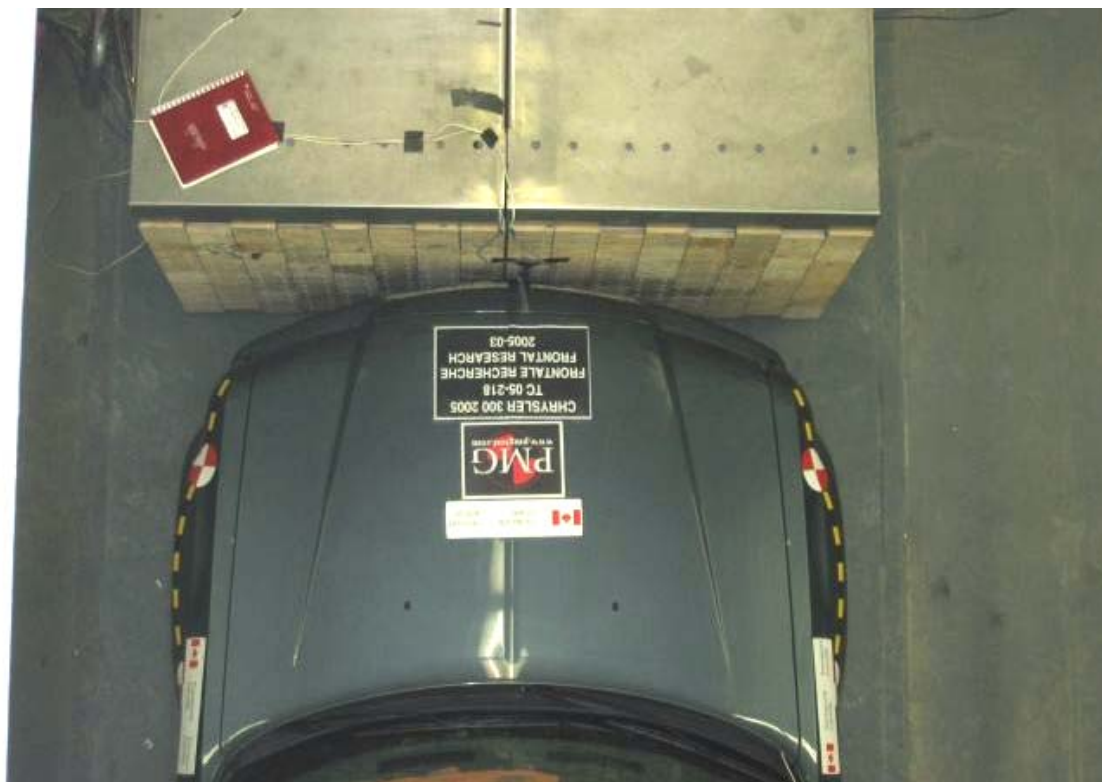


13. Vue de plan du véhicule d'essai, avant essai.
Over view of the test vehicle, pre-test.



14. Vue de plan du véhicule d'essai, après essai.
Over view of the test vehicle, post-test.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------



15. Vue de plan du devant du véhicule d'essai, avant essai.
Over view of the front part of the test vehicle, pre-test.



16. Vue de plan du devant du véhicule d'essai, après essai.
Over view of the front part of the test vehicle, post-test.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------



17. Vue côté gauche de l'avant du véhicule d'essai, avant essai.
Left side view of front of test vehicle, pre-test.



18. Vue côté gauche de l'avant du véhicule d'essai, après essai.
Left side view of front of test vehicle, post-test.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------



19. Vue côté droit de l'avant du véhicule d'essai, avant essai.
Right side view of front of test vehicle, pre-test.

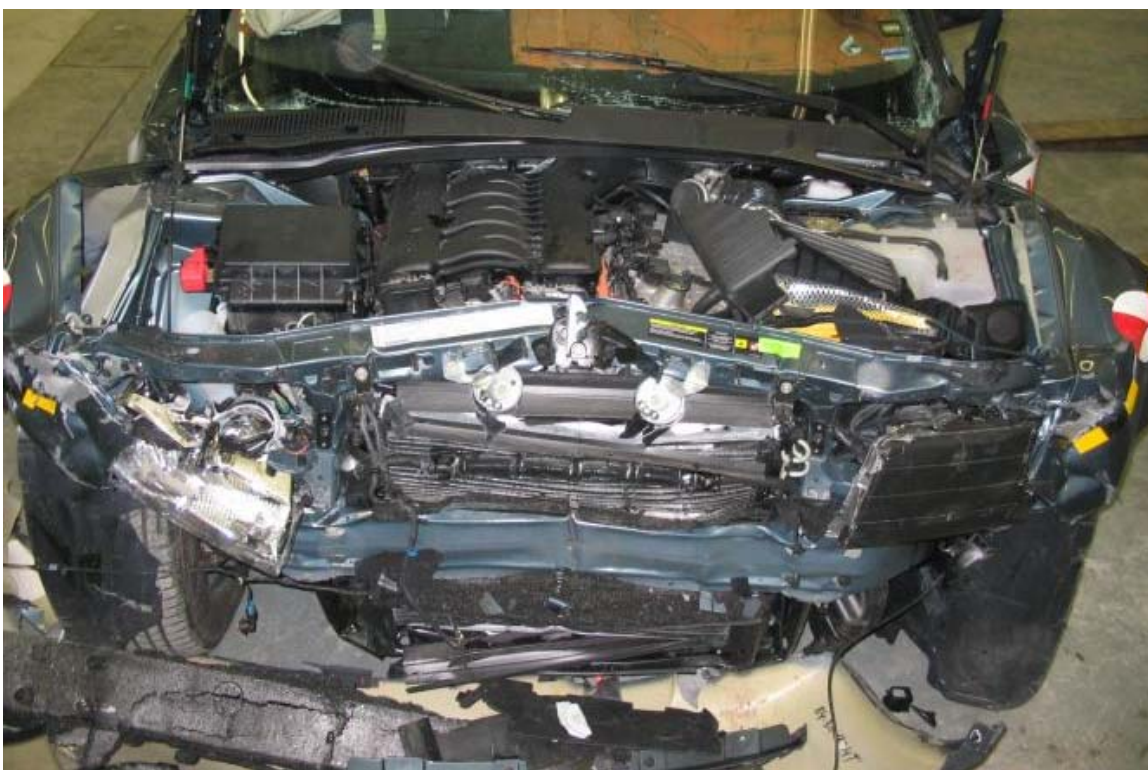


20. Vue côté droit de l'avant du véhicule d'essai, après essai.
Right side view of front of test vehicle, post-test.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	-------------------	---------------------	--------------------------	-------------------	---------------



**21. Vue du compartiment moteur du véhicule d'essai, avant essai.
Engine compartment view of the vehicle, pre-test.**



**22. Vue du compartiment moteur du véhicule d'essai, après essai.
Engine compartment view of the vehicle, post-test.**

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------



23. Vue du dessous du compartiment moteur, avant essai.
Under view of the engine compartment , pre-test.



24. Vue du dessous du compartiment moteur, après essai.
Under view of the engine compartment , post-test.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------



25. Position du conducteur, avant essai.
Driver's position, pre-test.

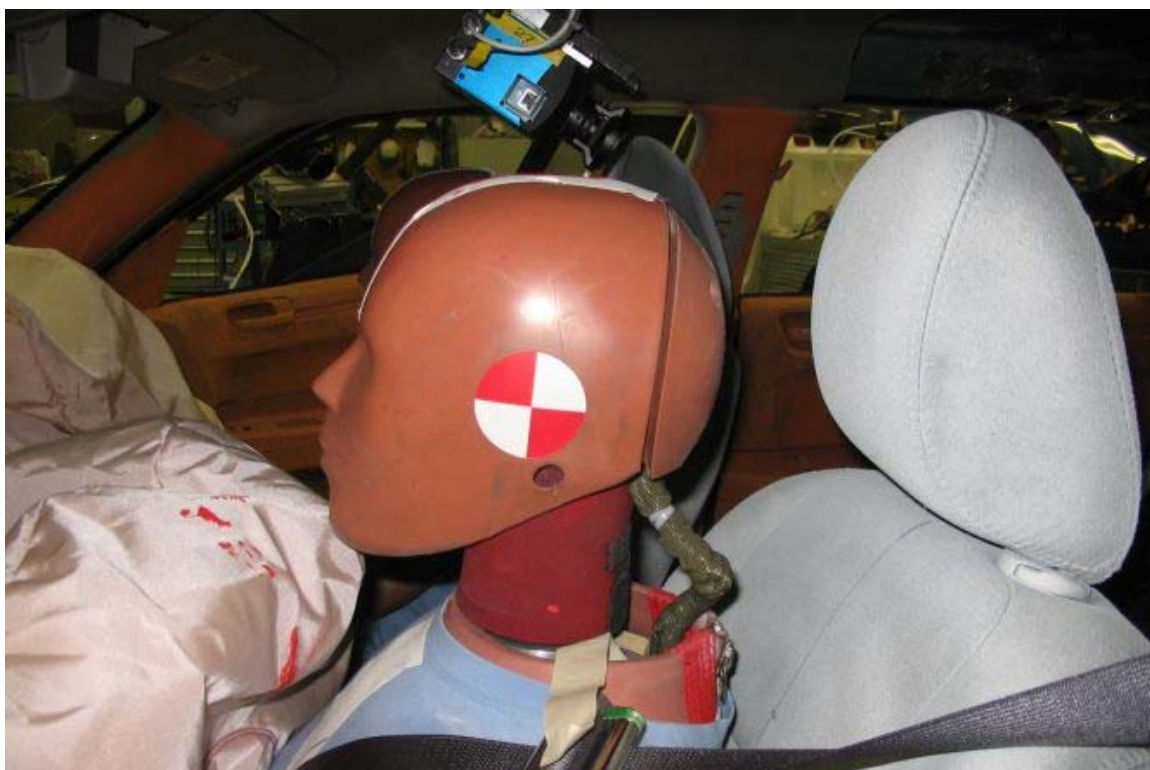


26. Position du conducteur, après essai.
Driver's position, post-test.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------

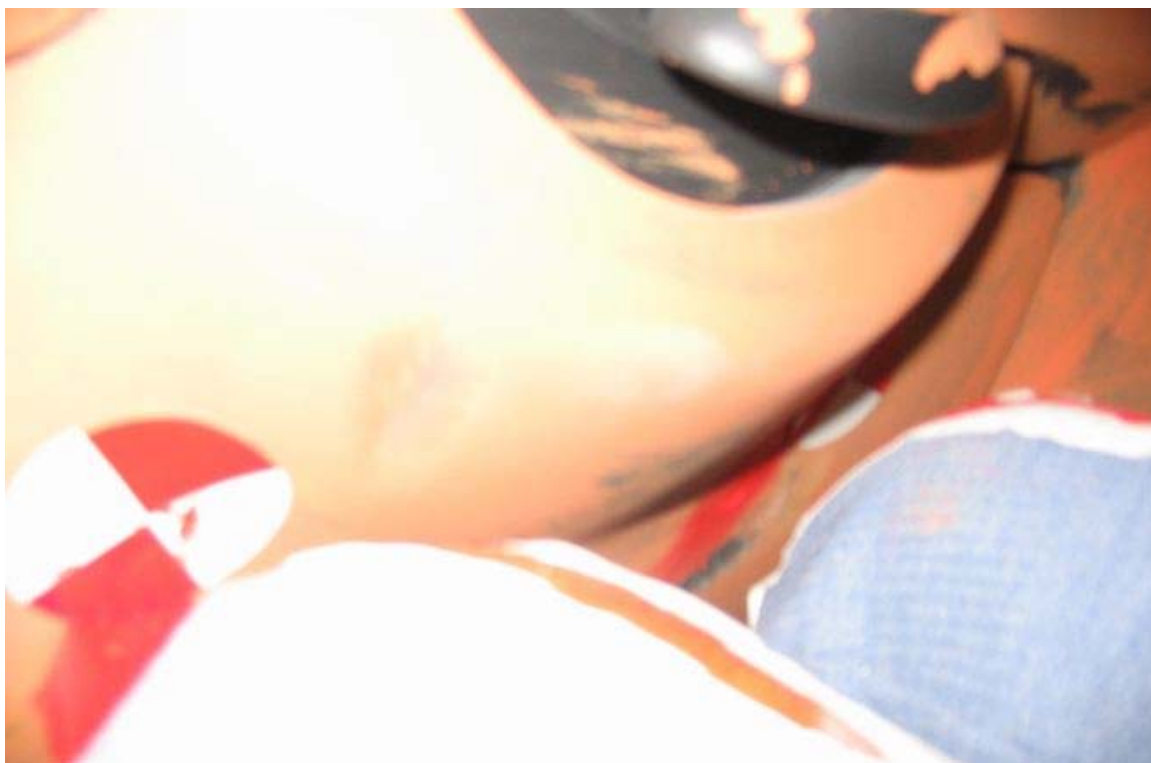


27. Point de contact de tête du conducteur, après essai.
Driver's head contact point, post-test.



28. Point de contact de tête du conducteur, après essai.
Driver's head contact point, post-test.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------



29. Point de contact des genoux du conducteur, après essai.
Driver's knees contact point, post-test.



30. Contact du volant sur l'abdomen du conducteur, après essai.
Steering wheel's contact point with driver's abdomen.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------

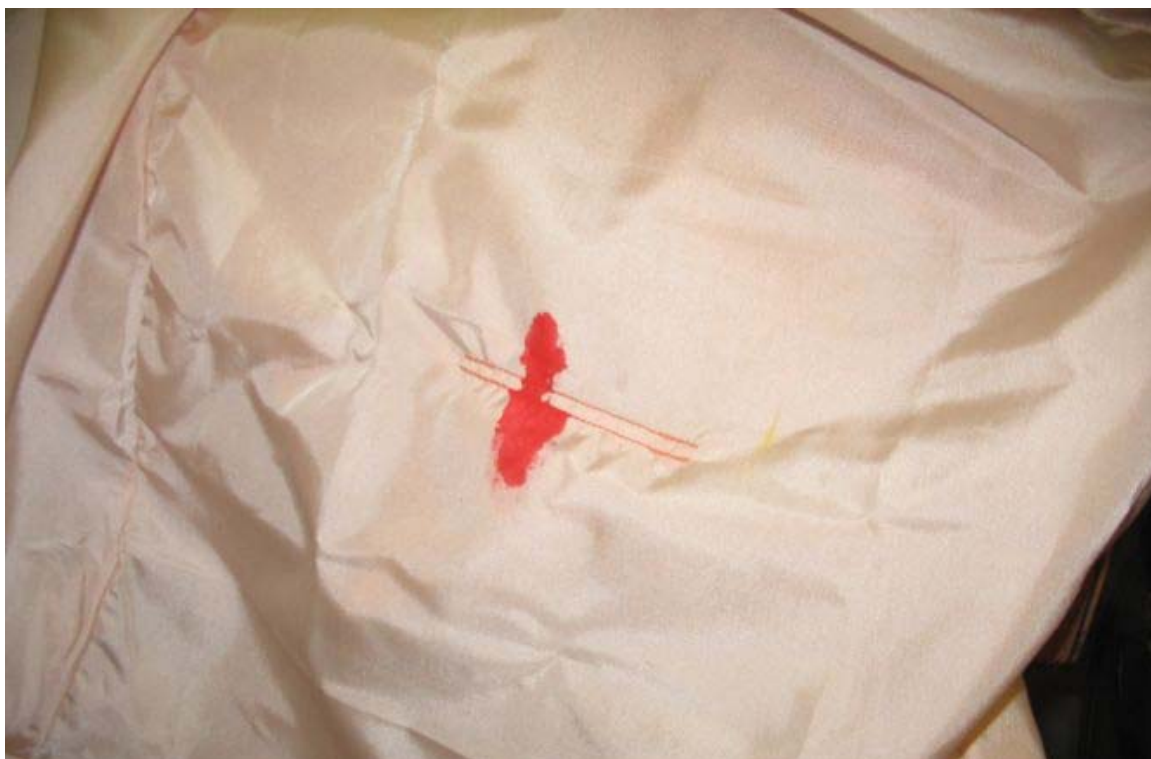


31. Position du passager, avant essai.
Passenger's position, pre-test.

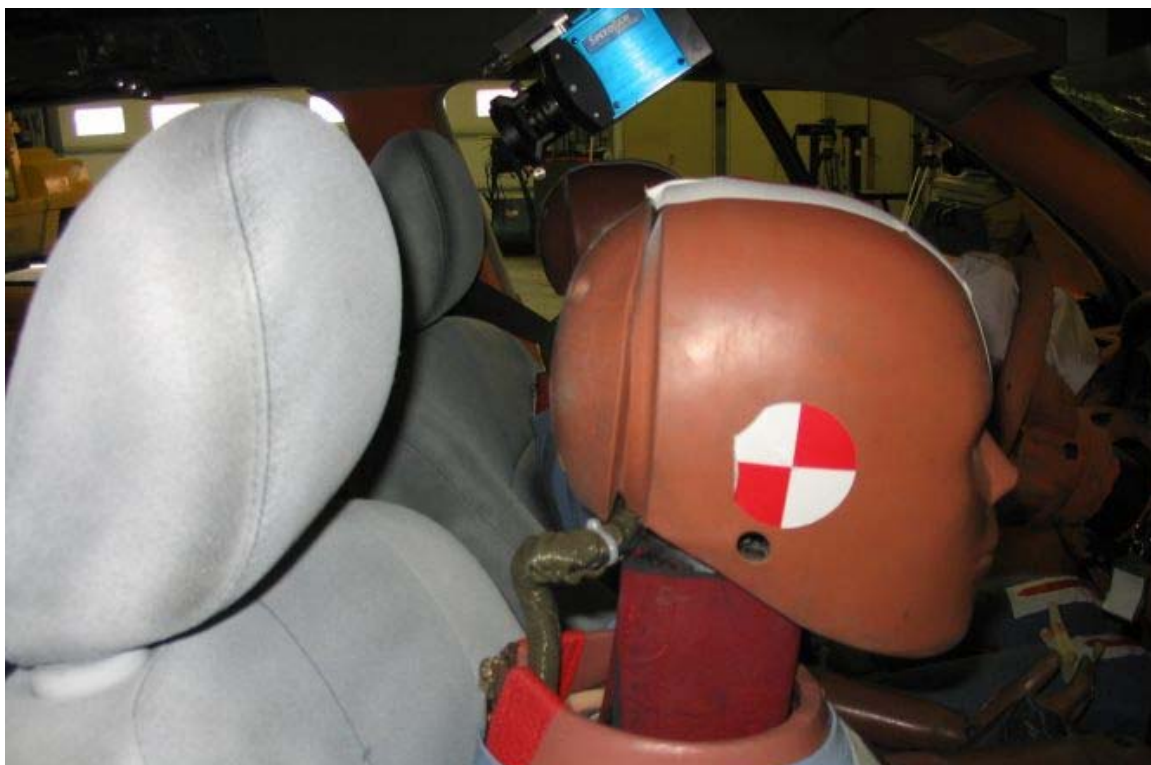


32. Position du passager, après essai.
Passenger's position, post-test.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------



33. Point de contact de tête du passager, après essai.
Passenger's head contact point, post-test.



34. Point de contact de tête du passager, après essai.
Passenger's head contact point, post-test.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	-------------------	---------------------	--------------------------	-------------------	---------------



35. Point de contact des genoux du passager, après essai.
Passenger's knees contact point, post-test.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------



36. Position du passager arrière centre, avant essai.
Rear centre passenger's position, pre-test.



37. Position du passager arrière droit, après essai.
Rear right passenger's position, post-test.

Date de collision Crash date	2005-03-18	Véhicule Vehicle	CHRYSLER 300 2005	T.C. N° T.C.No	05-218
---------------------------------	------------	---------------------	-------------------	-------------------	--------



38. Affichage du lecteur de vitesse.
Speed trap reading.

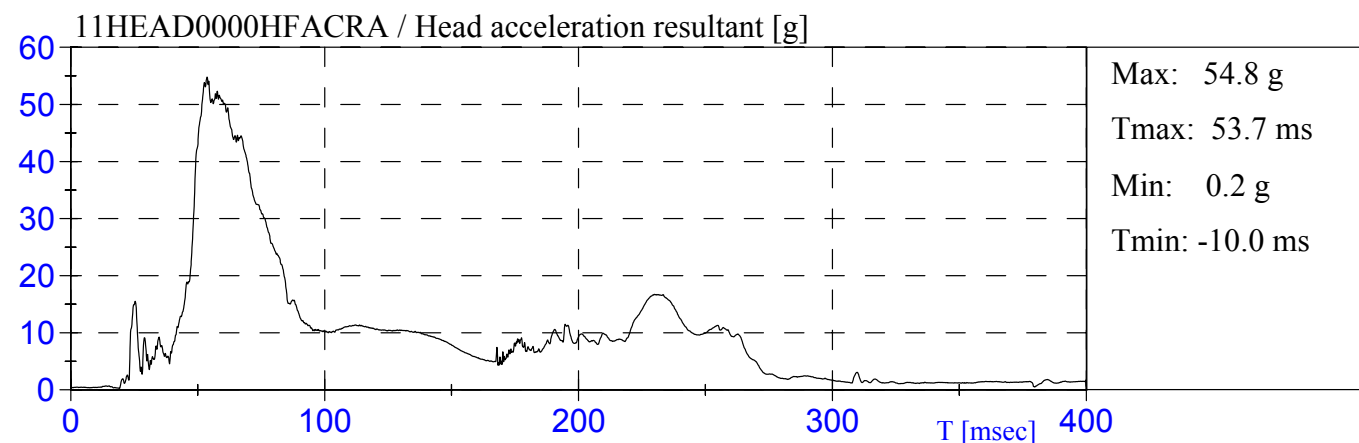
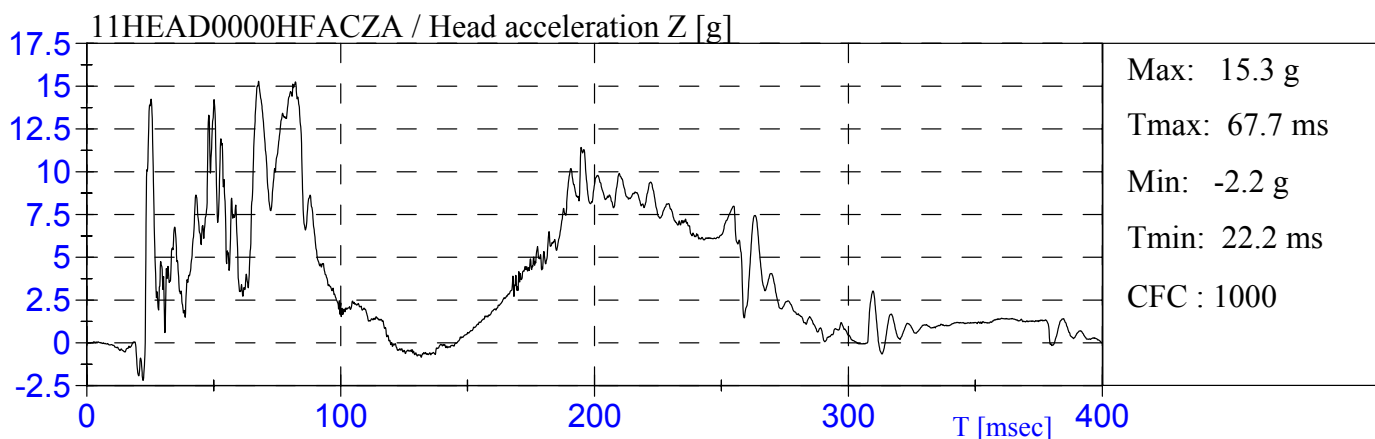
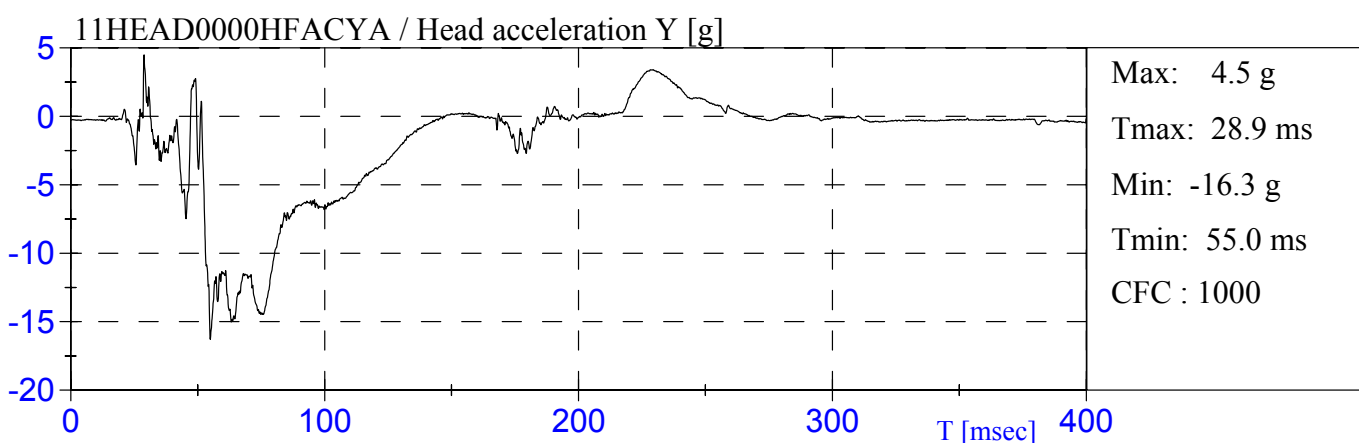
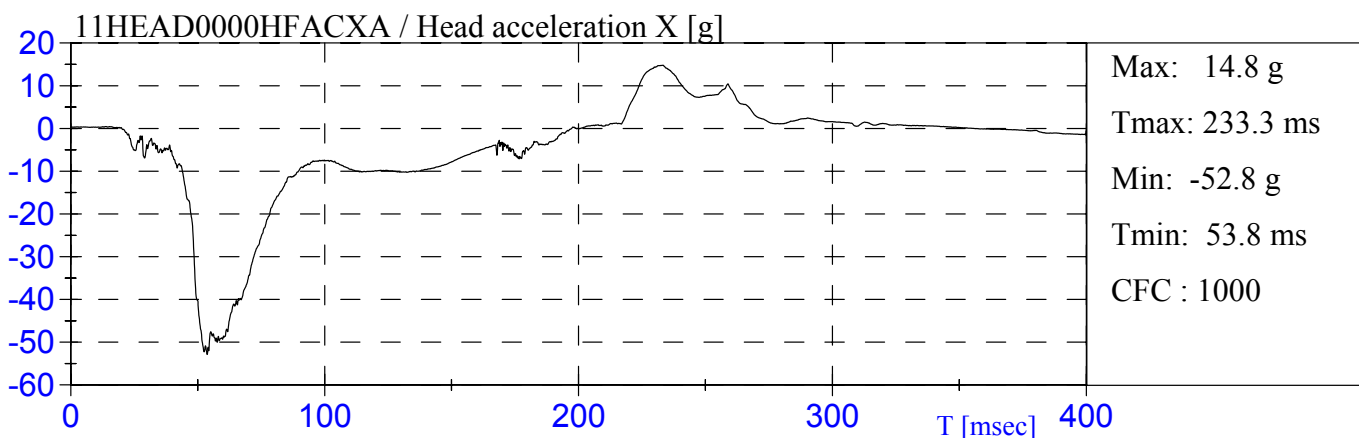
APPENDICE / APPENDIX B

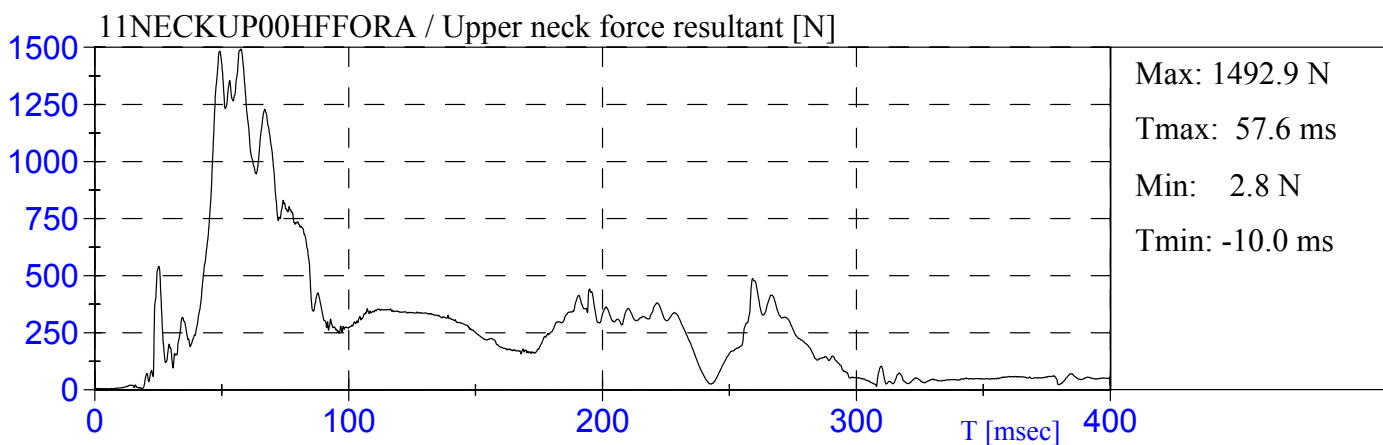
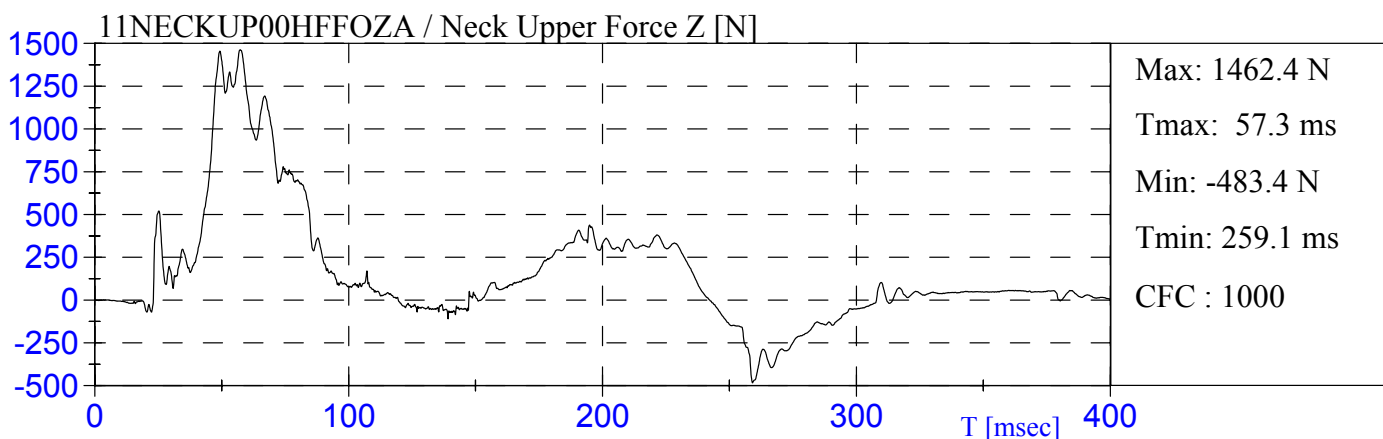
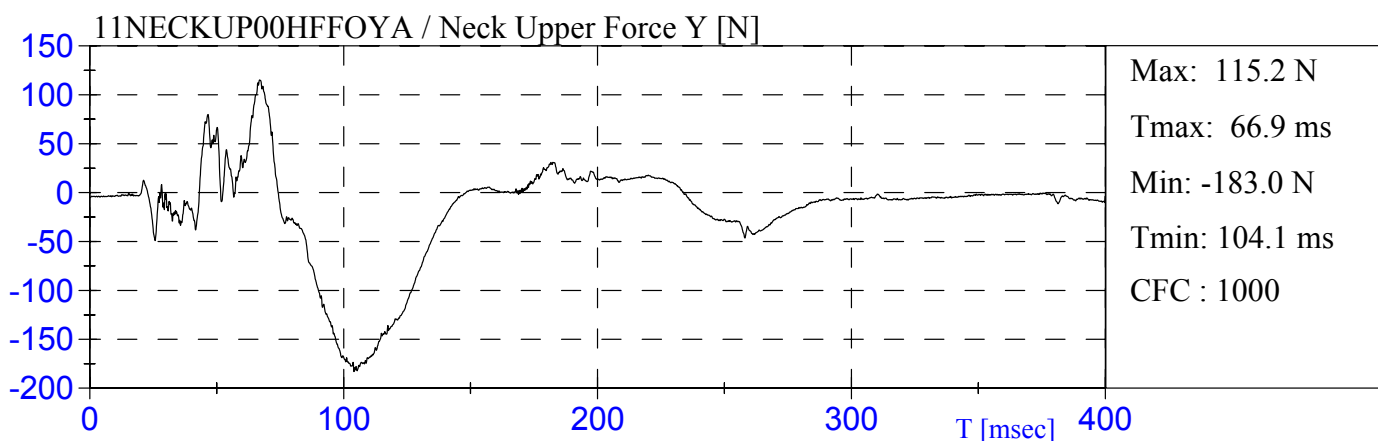
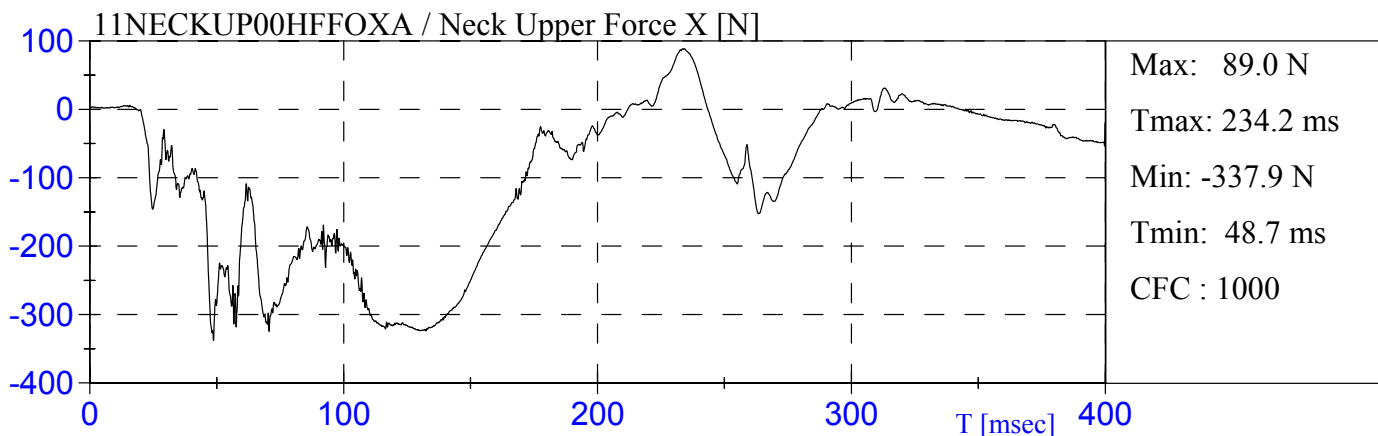
**DONNÉES GRAPHIQUES
GRAPHICAL DATA**

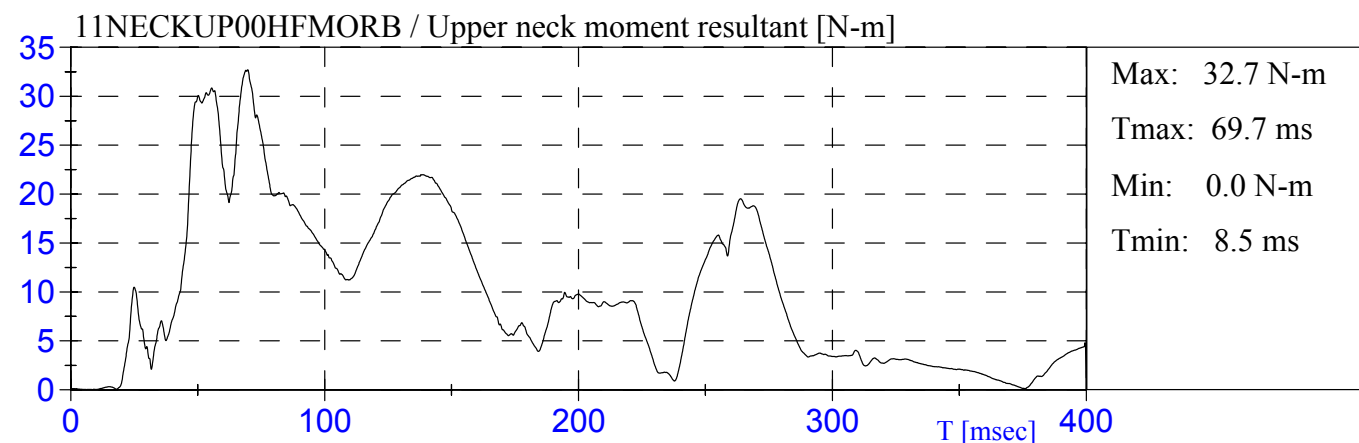
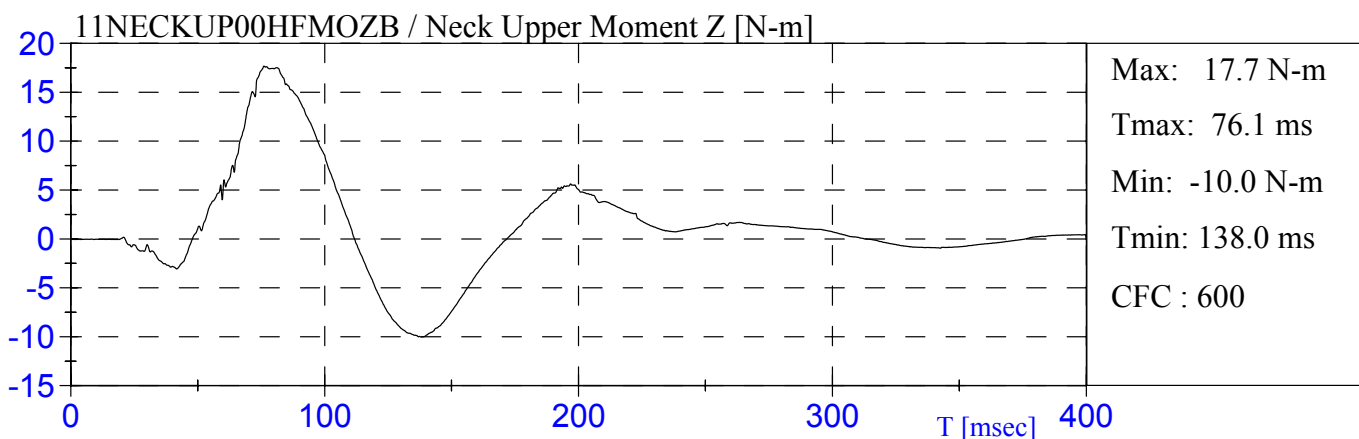
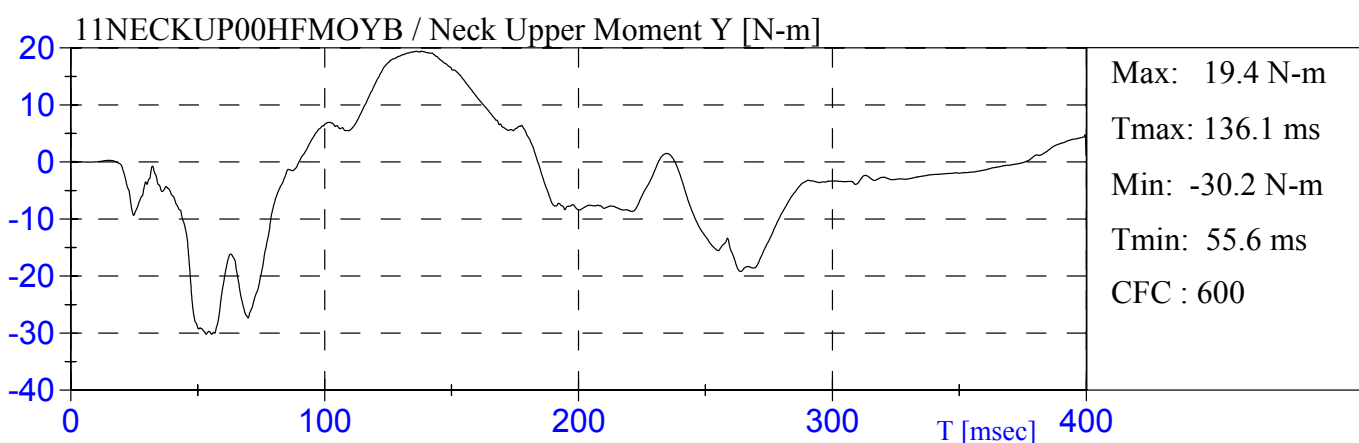
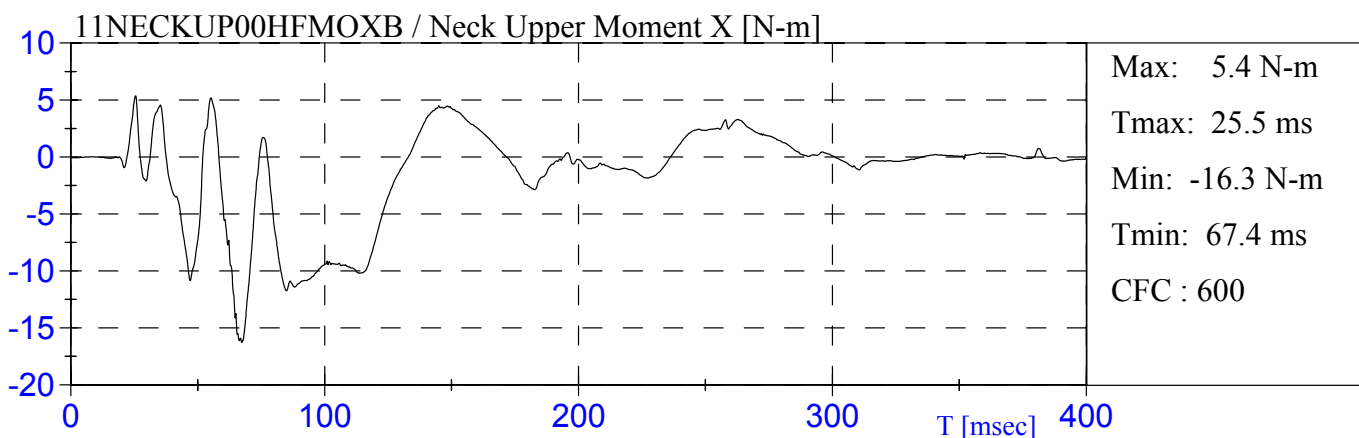


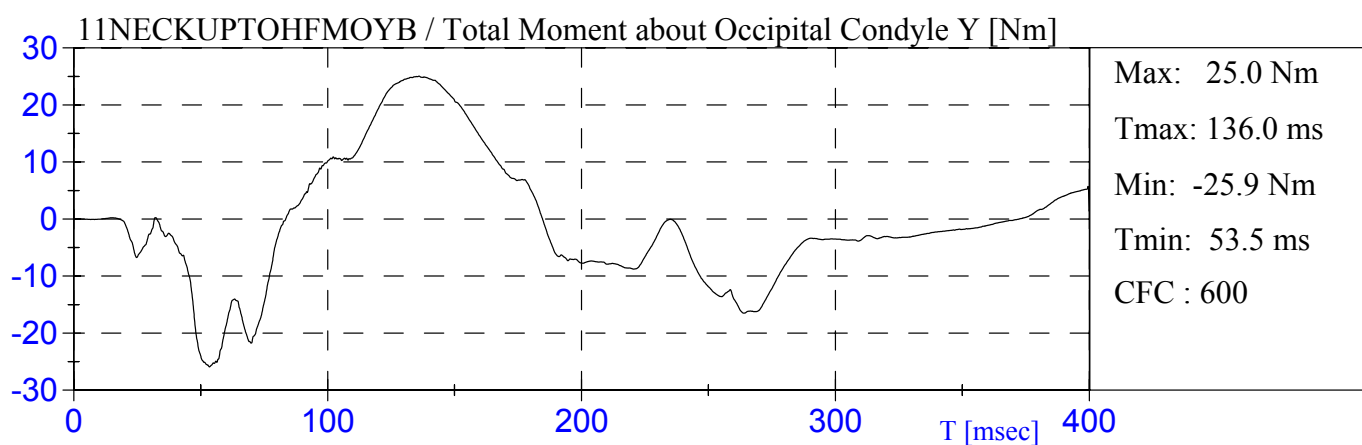
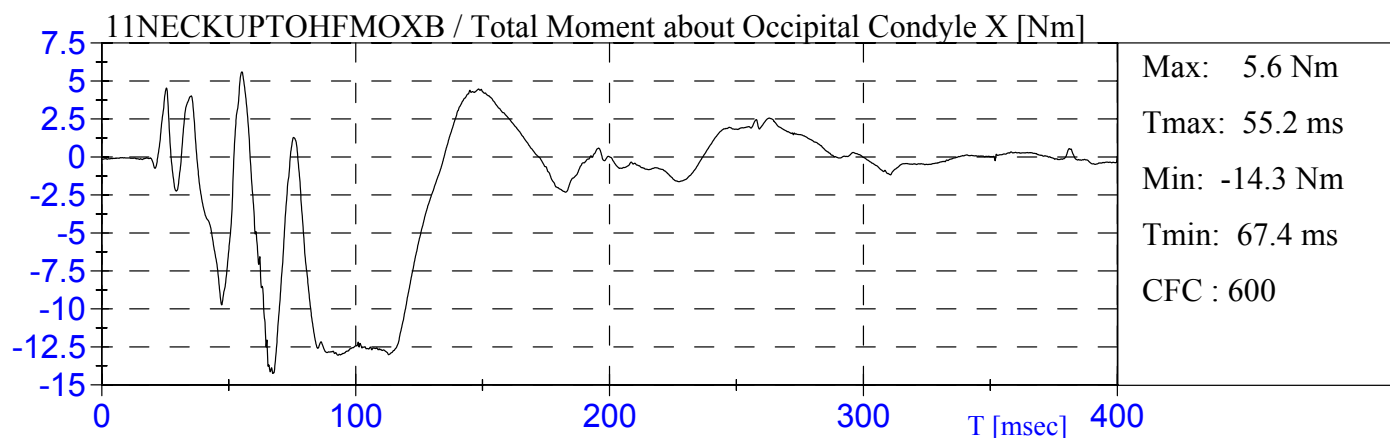
Nom du client Client Name	TRANSPORT CANADA
Type de véhicule Type of Vehicle	CHRYSLER 300 2005
Numéro de TC Tc Number	TC05-218
Vitesse Speed	56 km/h
Numéro de contrat Contract No	05-5001
Acquisition de données selon Data Acquisition according to	SAE J211/1 MAR 95
Date de l'essai Test date	2005-03-18
Titre du projet Project Title	COLLISION DE RECHERCHE COLLISION FRONTALE RESEARCH COLLISION TEST FRONTAL CRASH
MANNEQUIN / DUMMY	

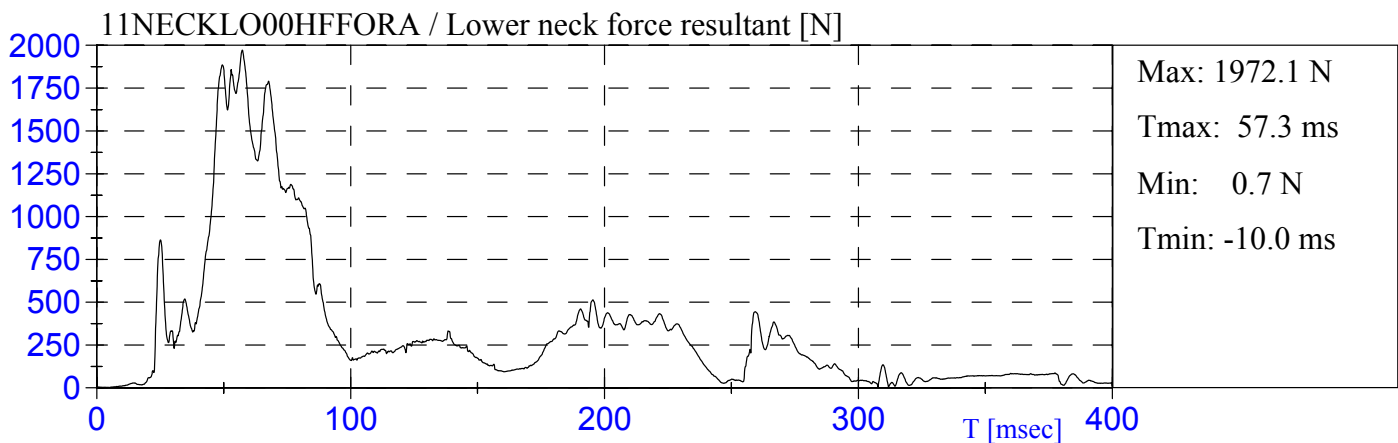
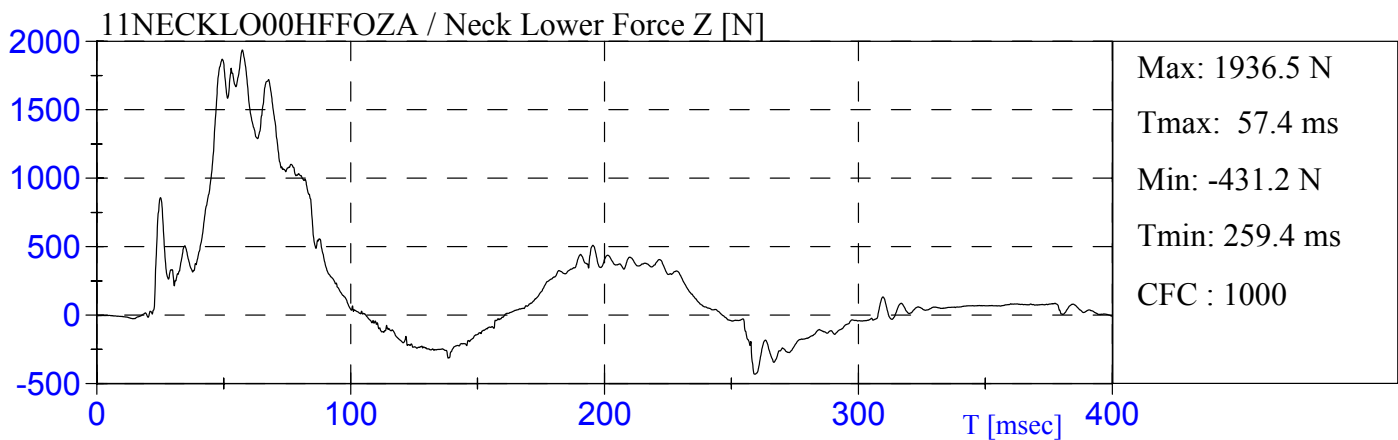
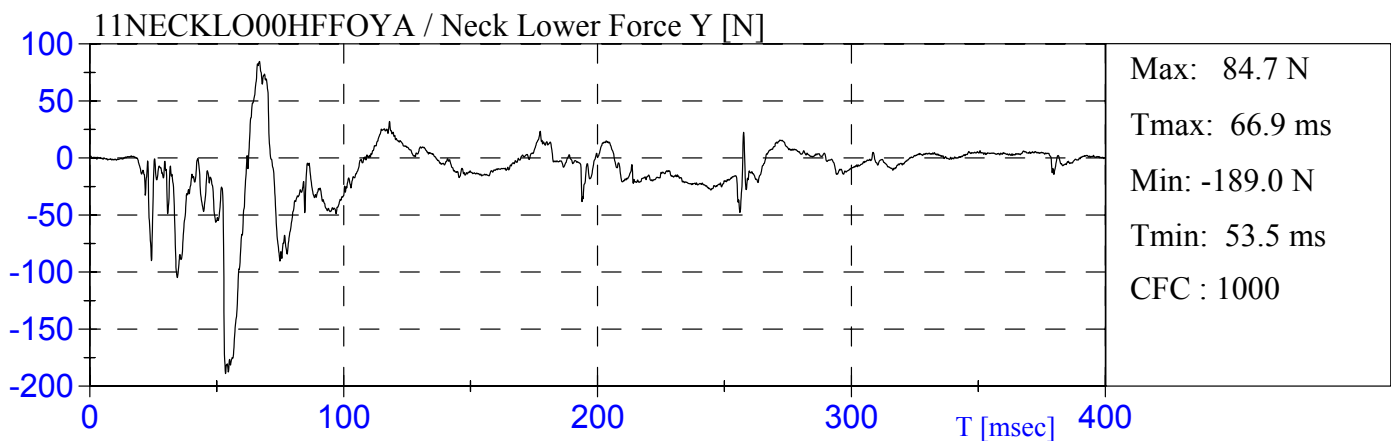
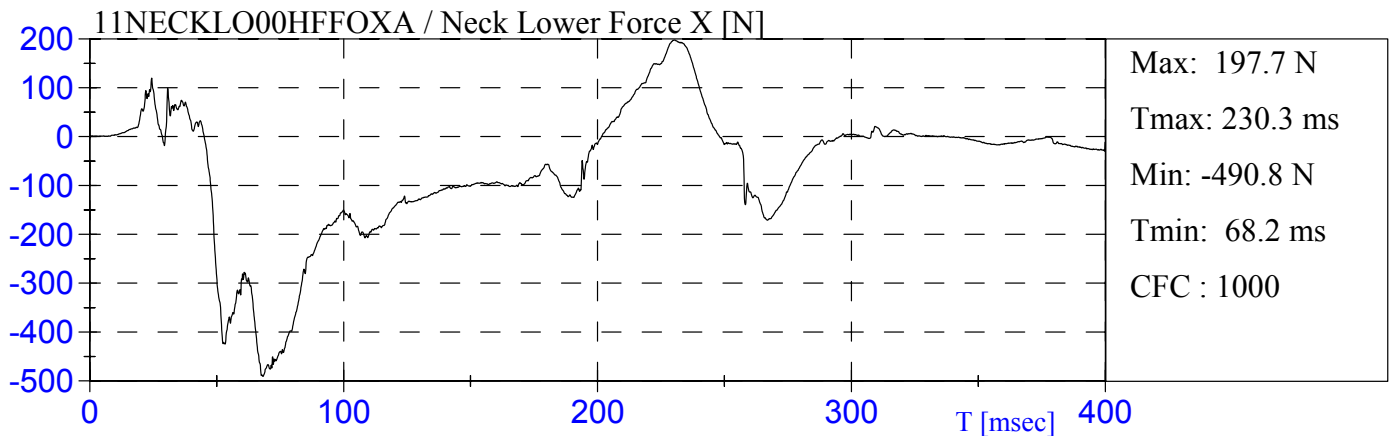
Position 1	Position 2	Position 3
HF		HF
Position 4	Position 5	Position 6
	HF	
Position 7	Position 8	Position 9

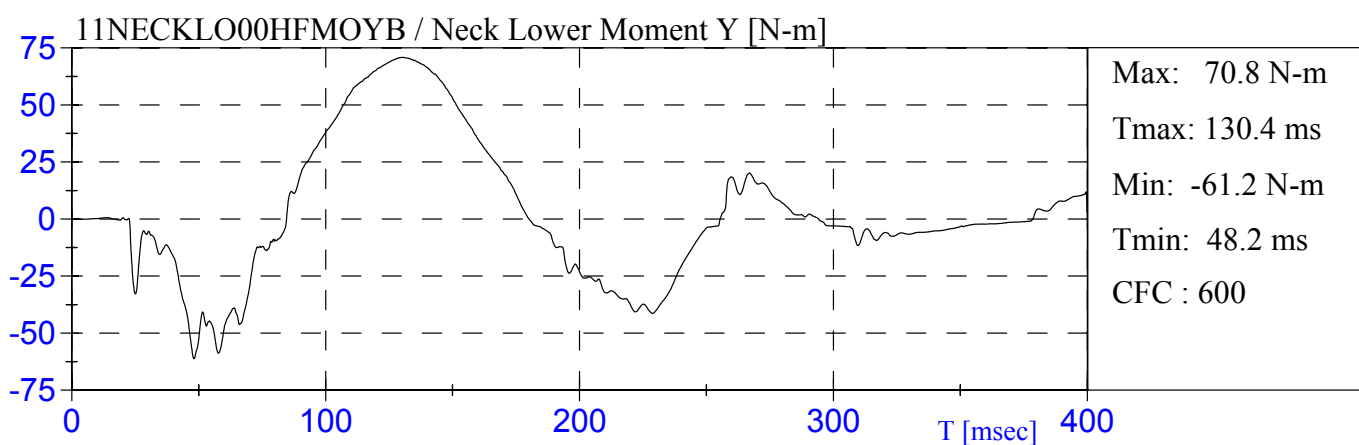
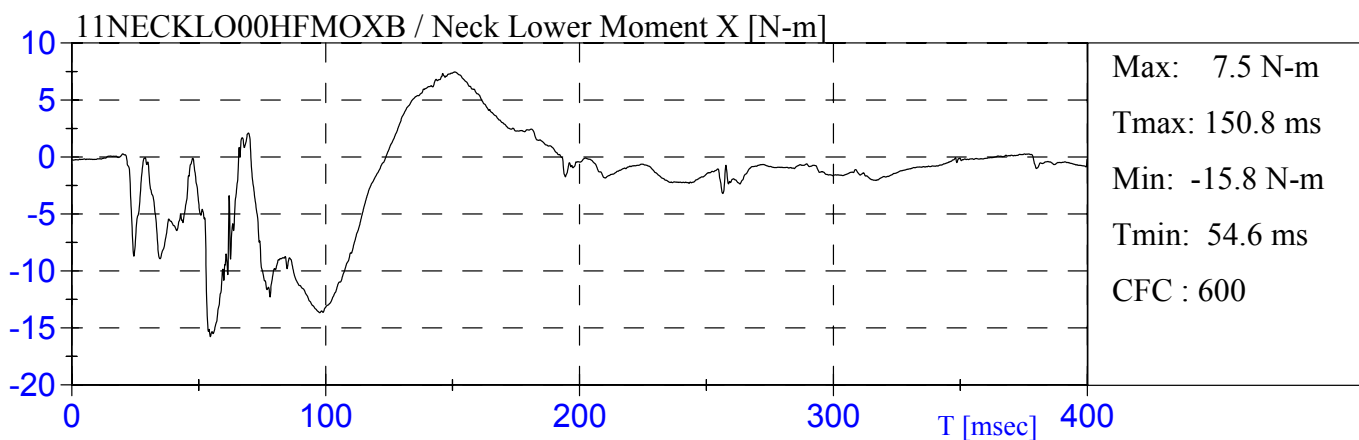


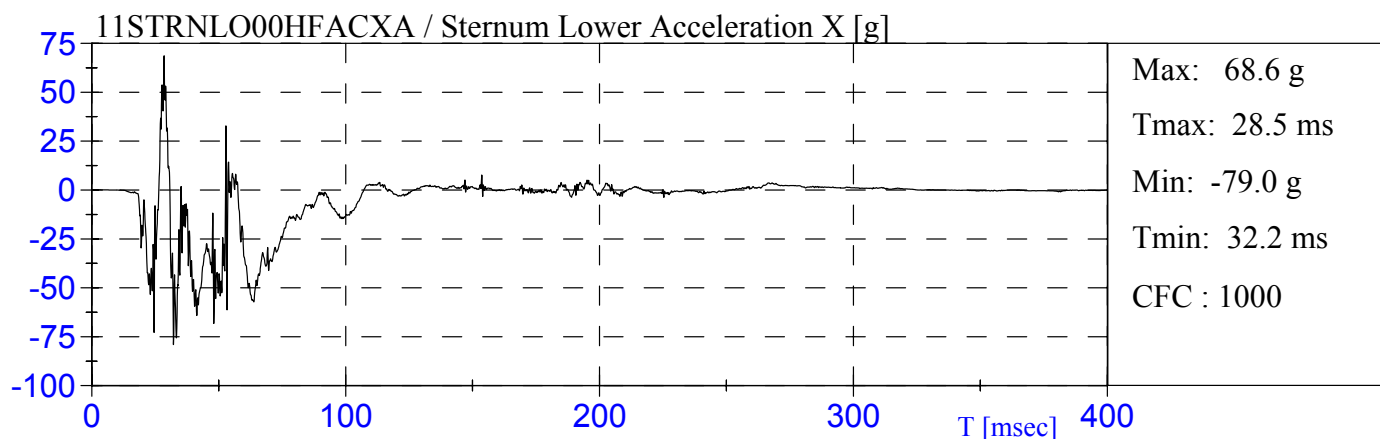
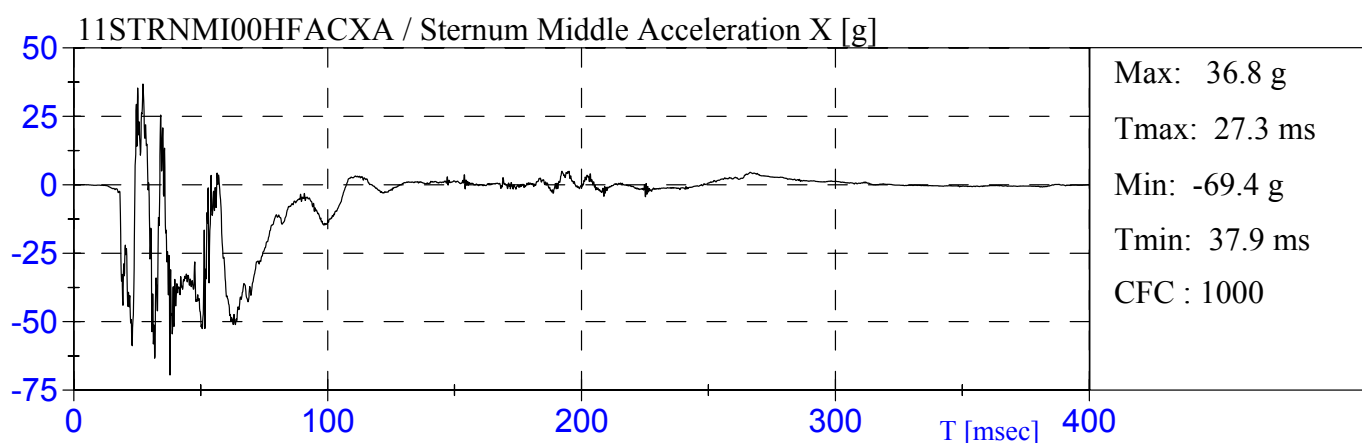
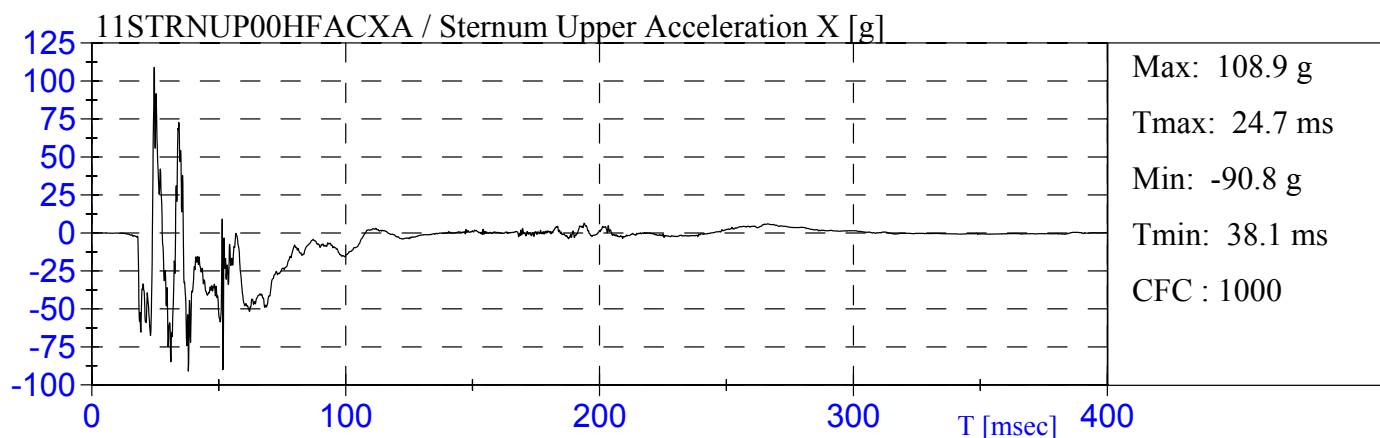


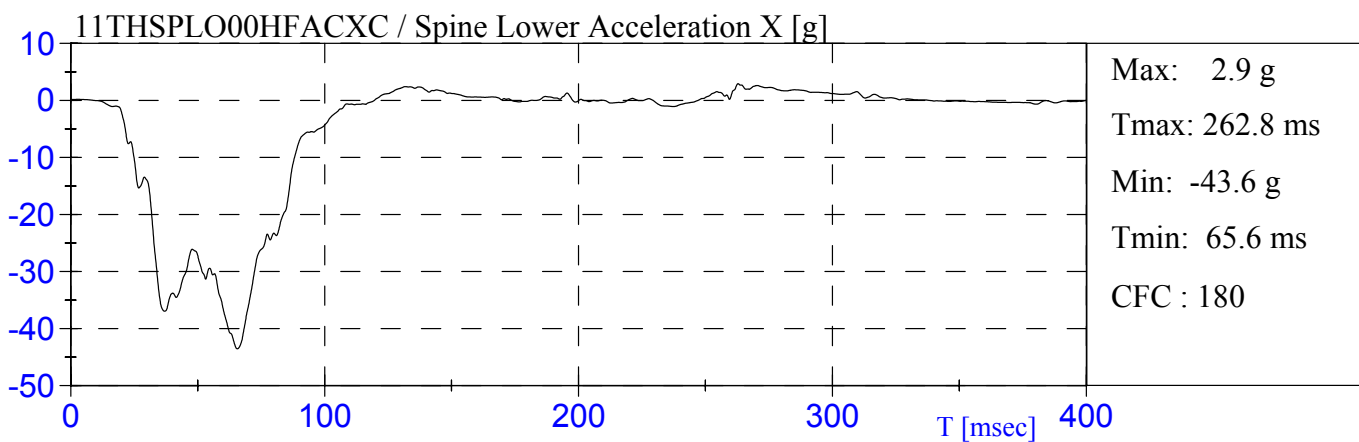
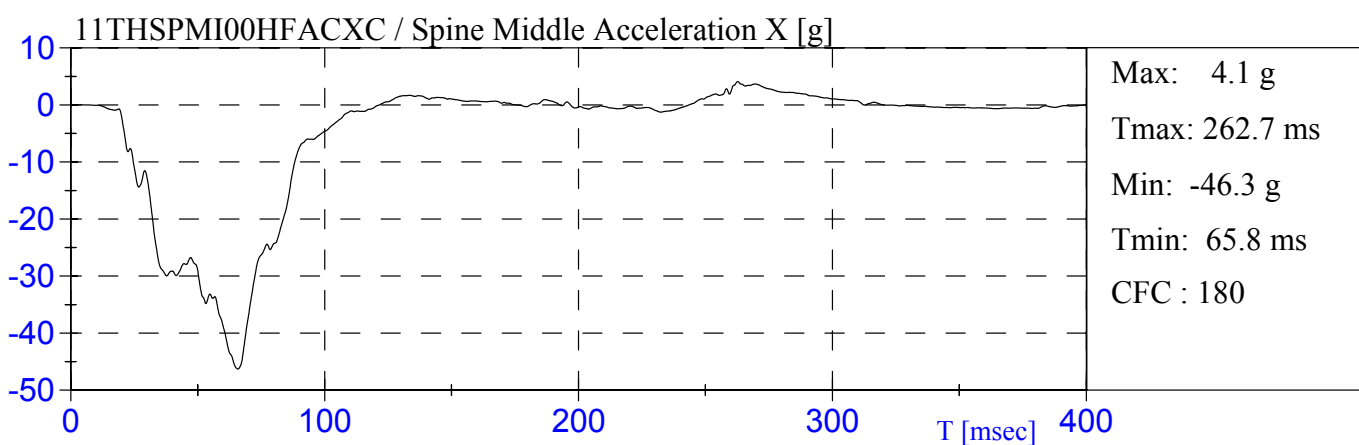
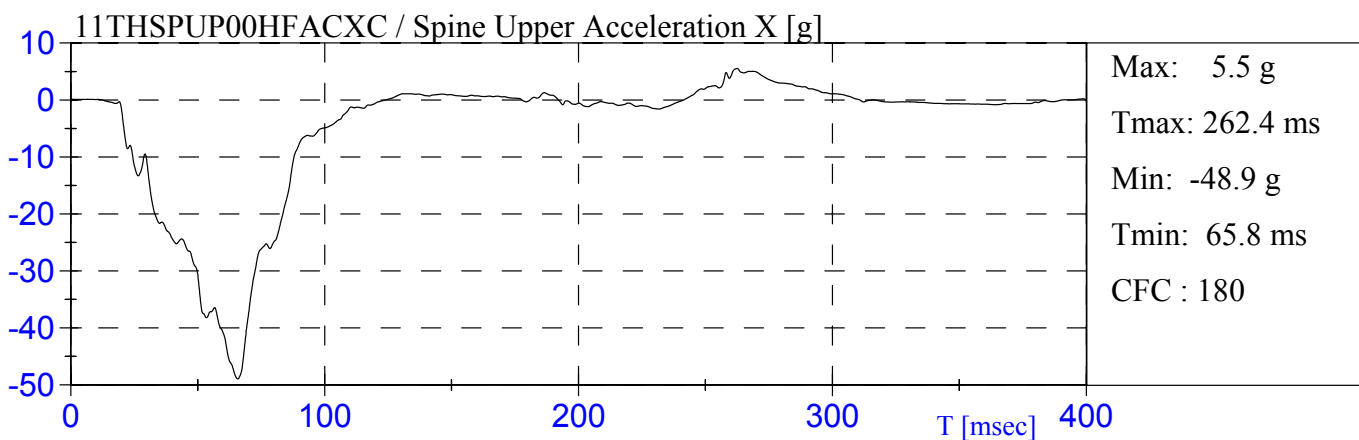


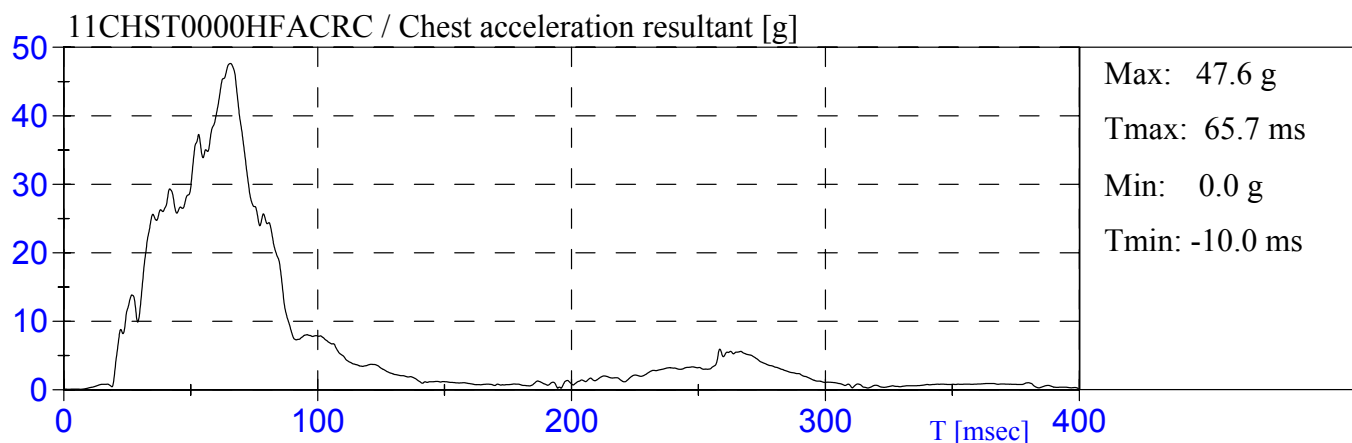
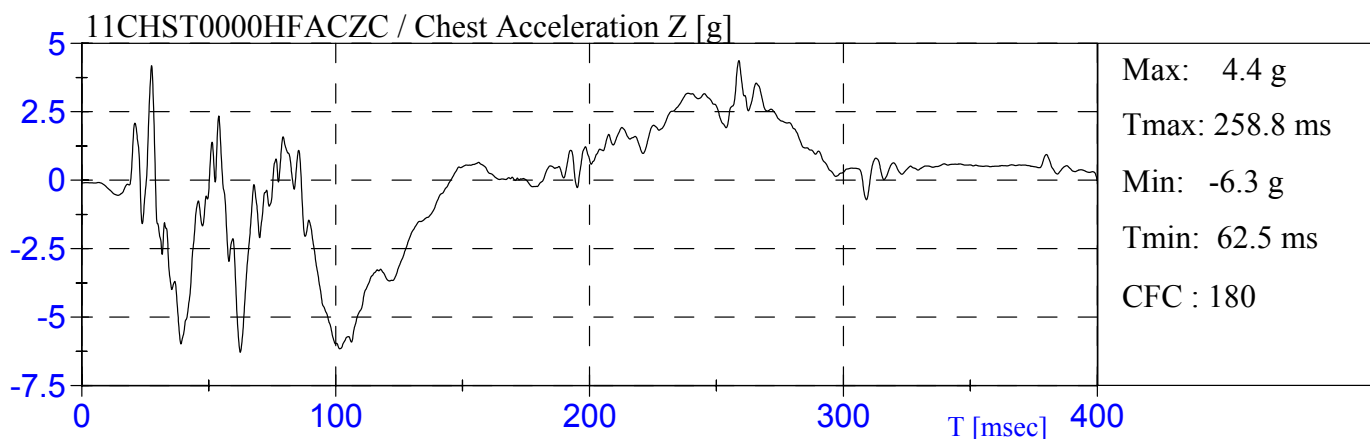
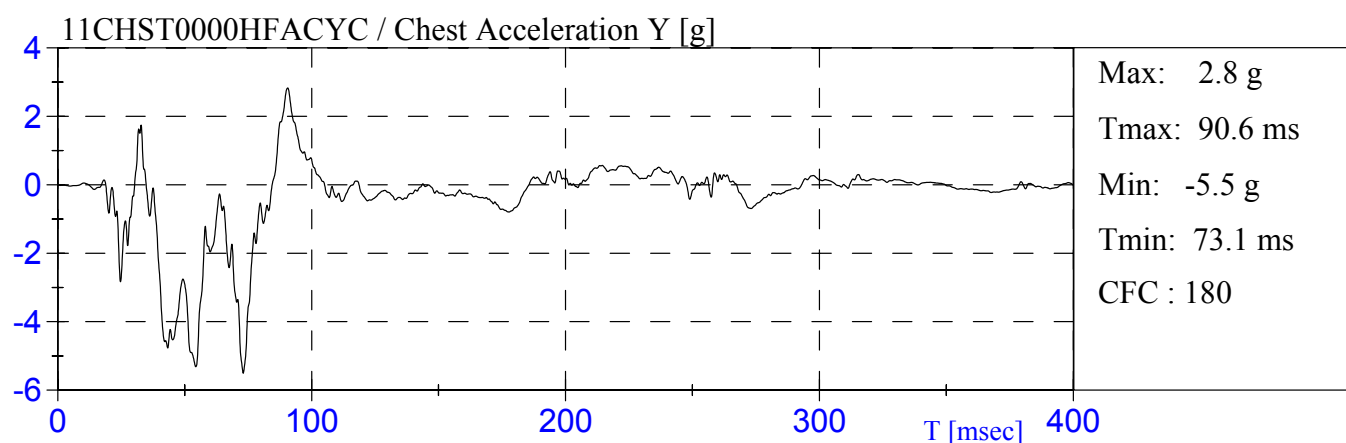
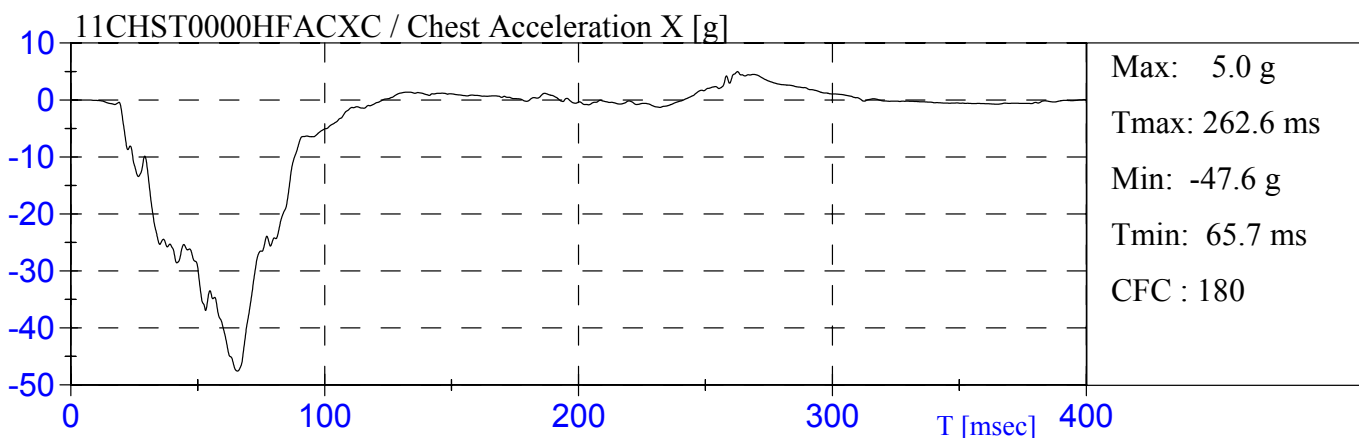


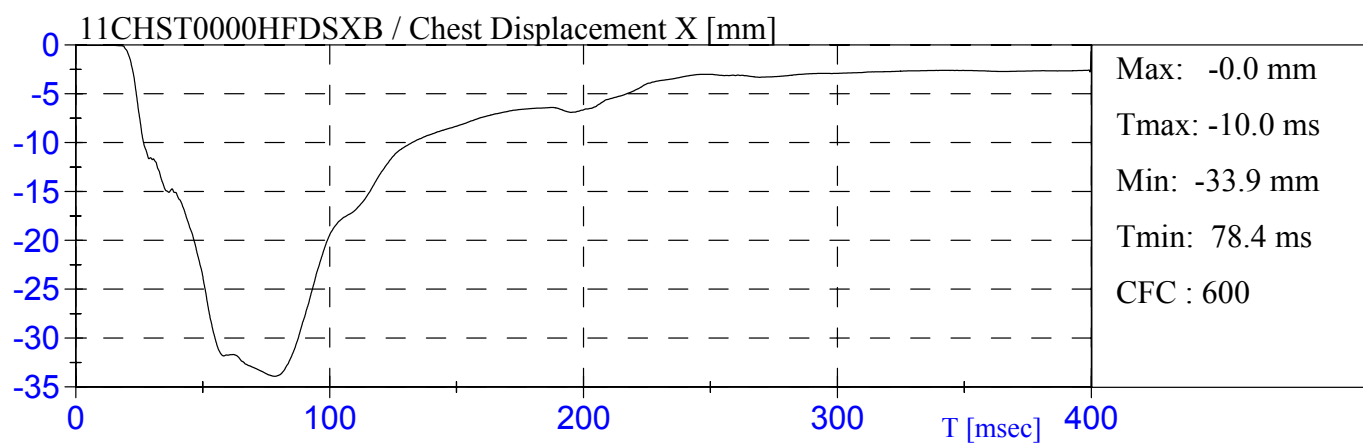


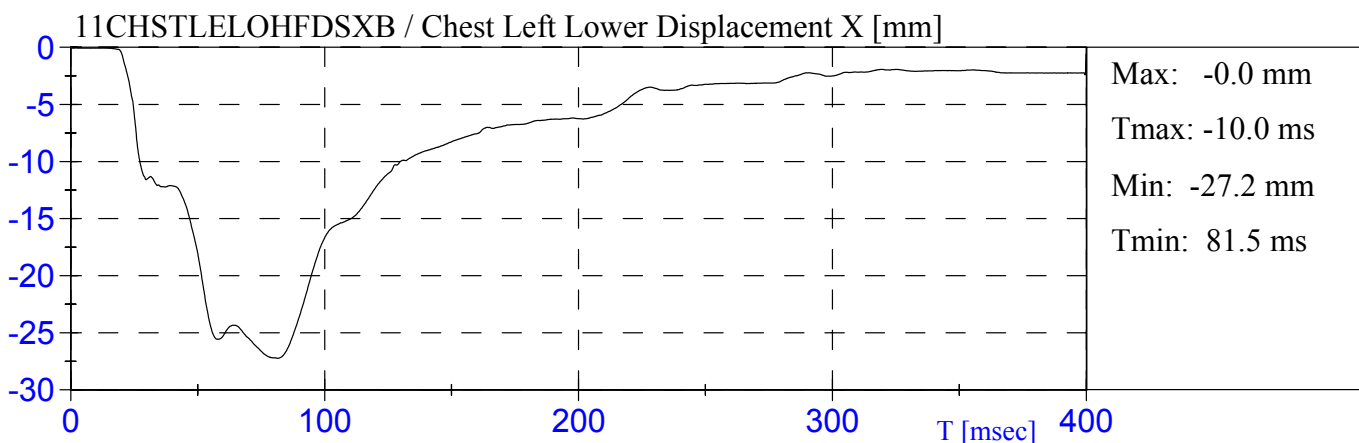
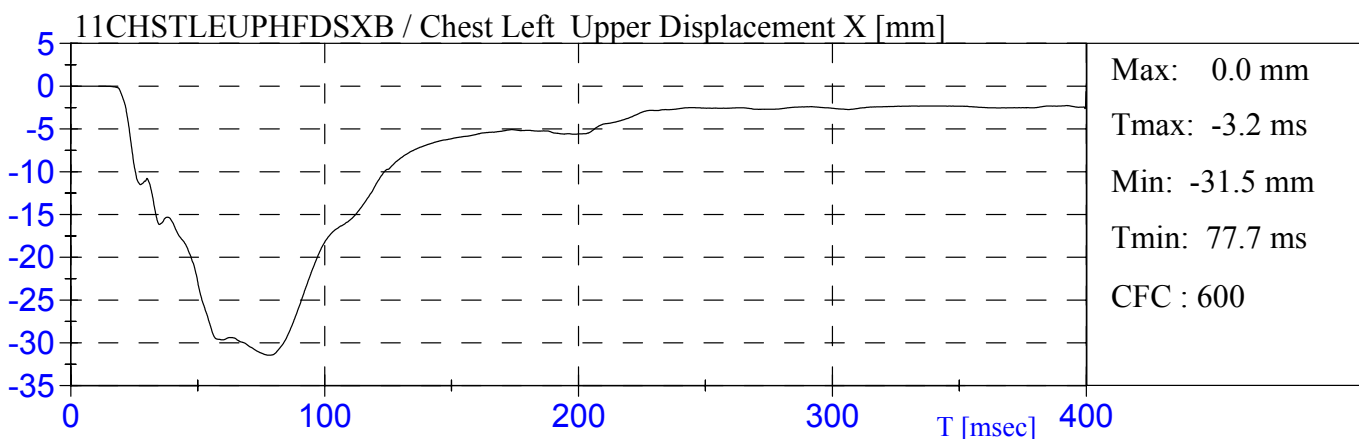
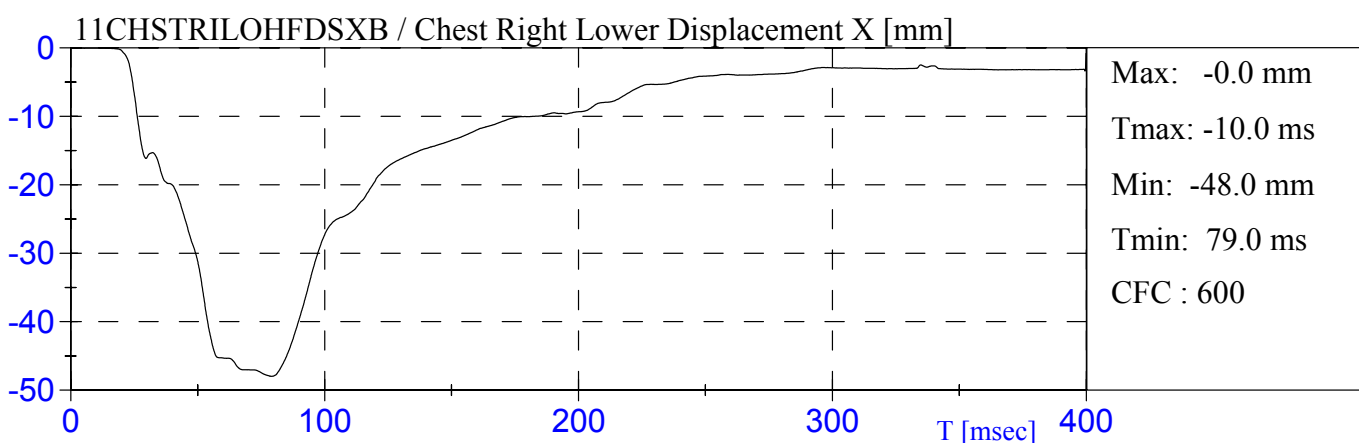
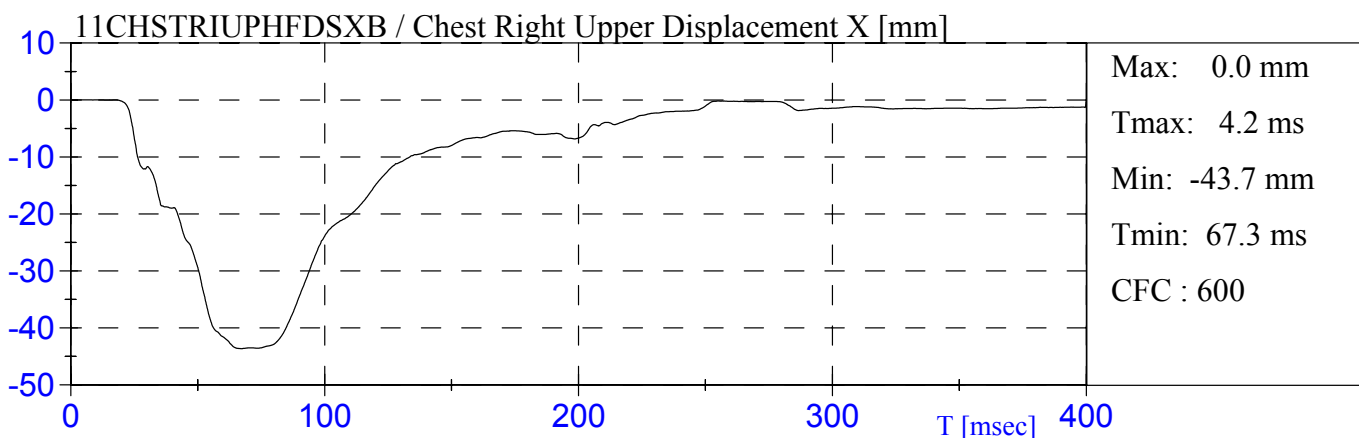


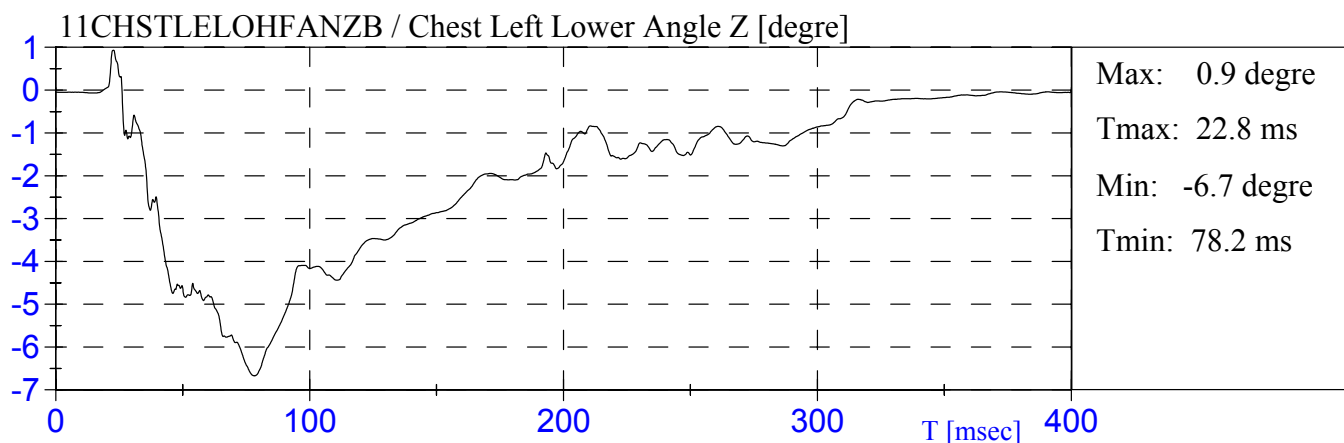
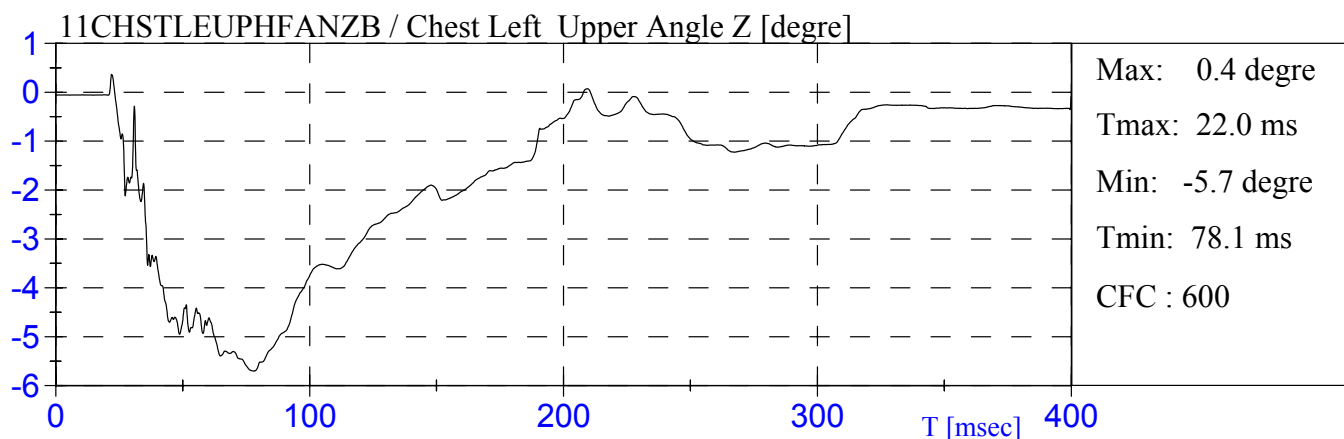
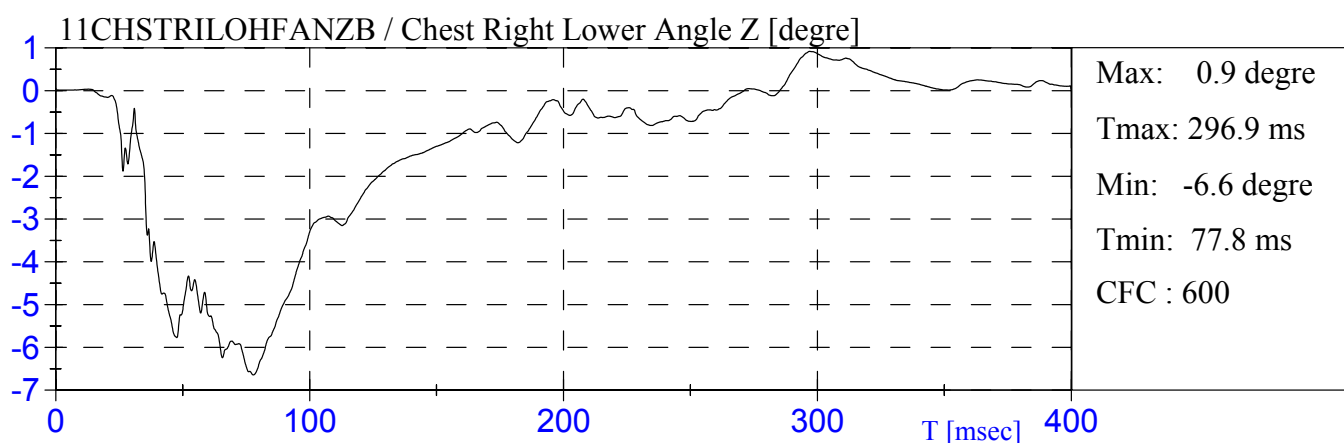
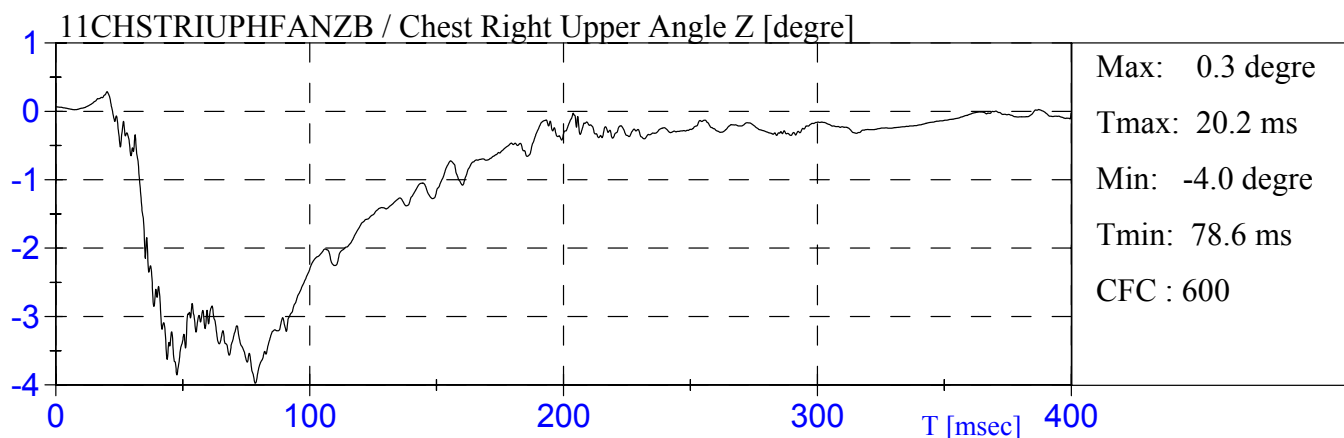


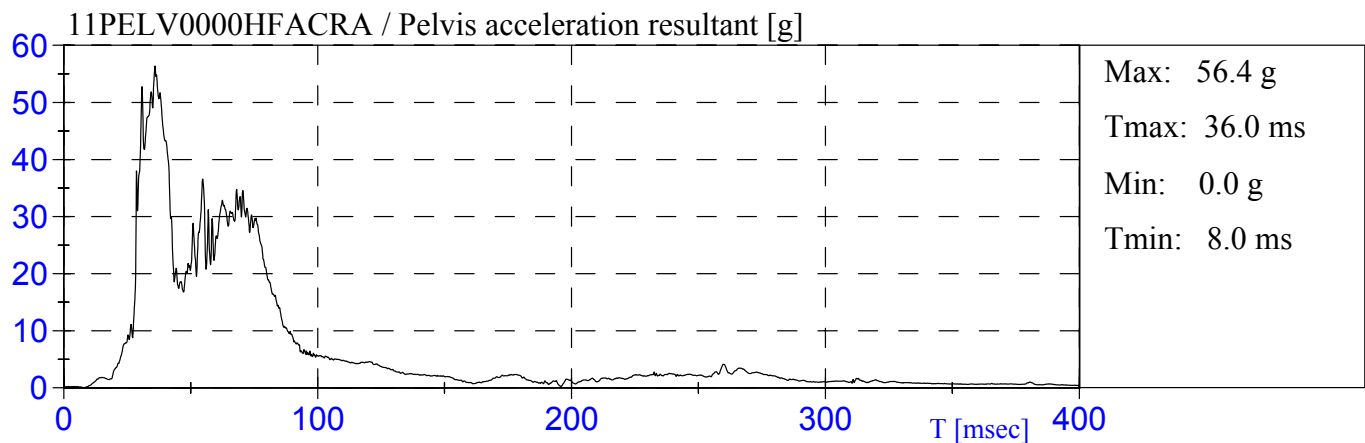
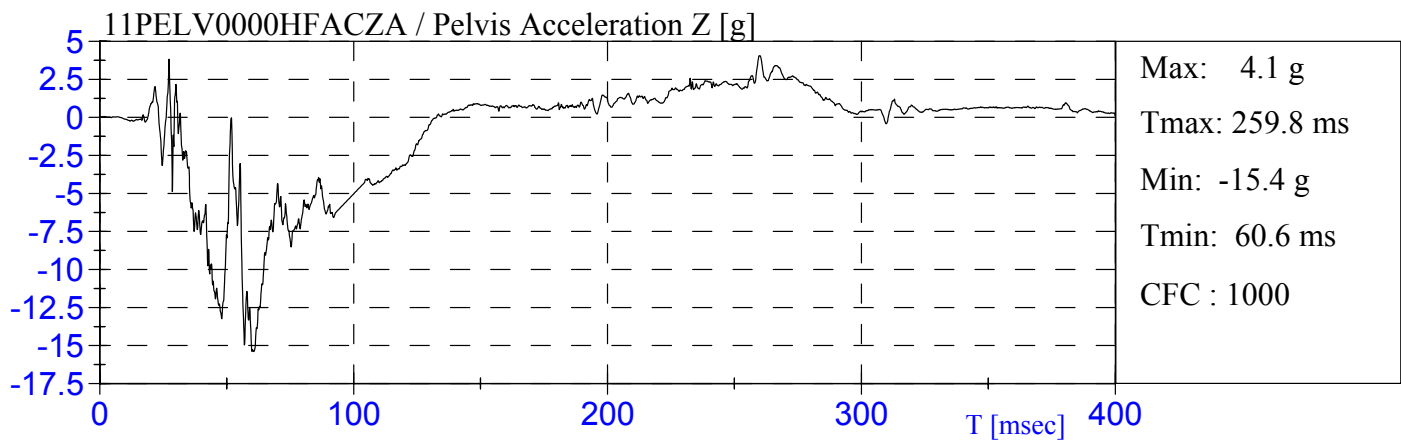
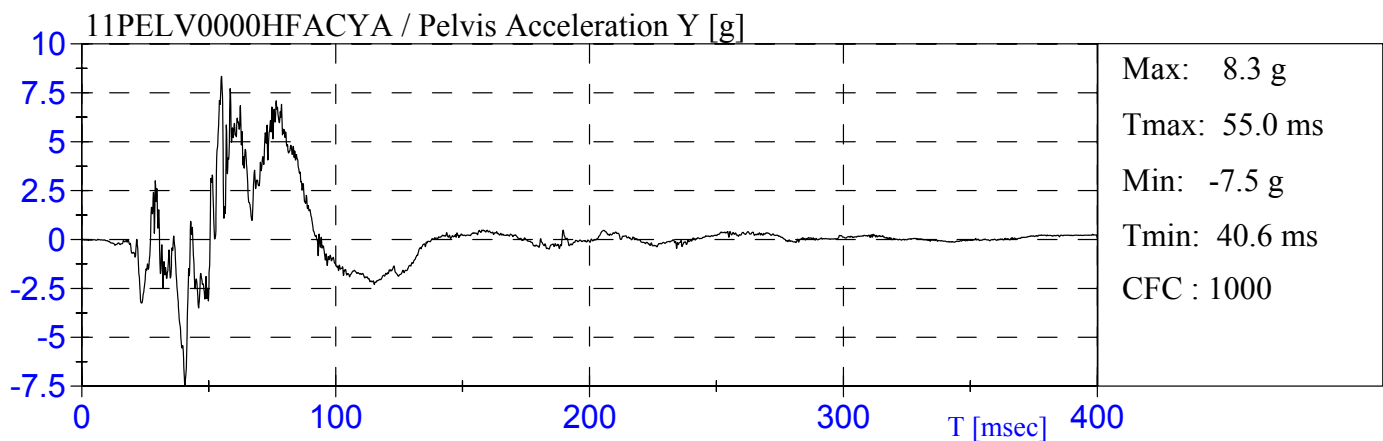
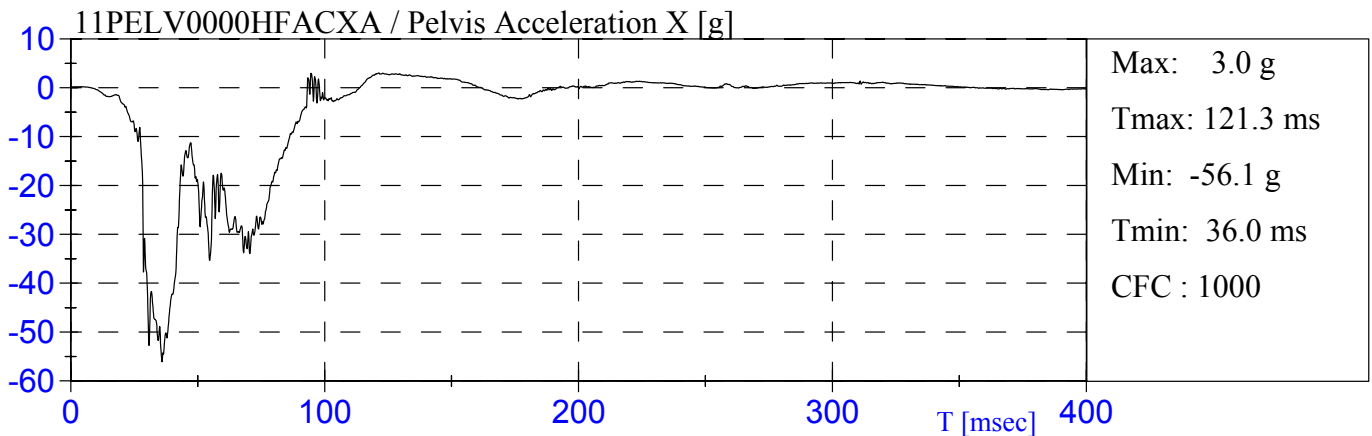


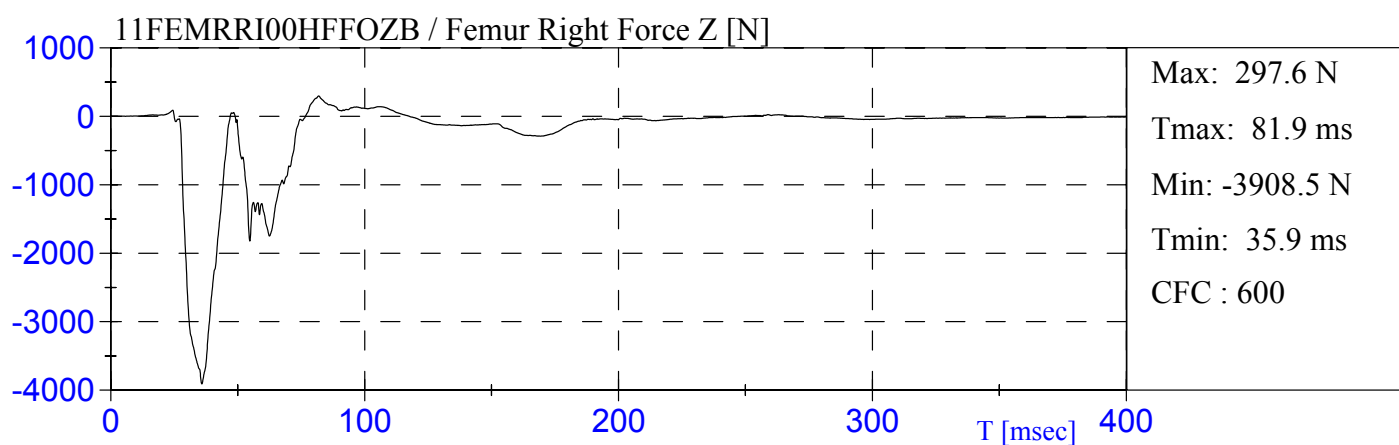
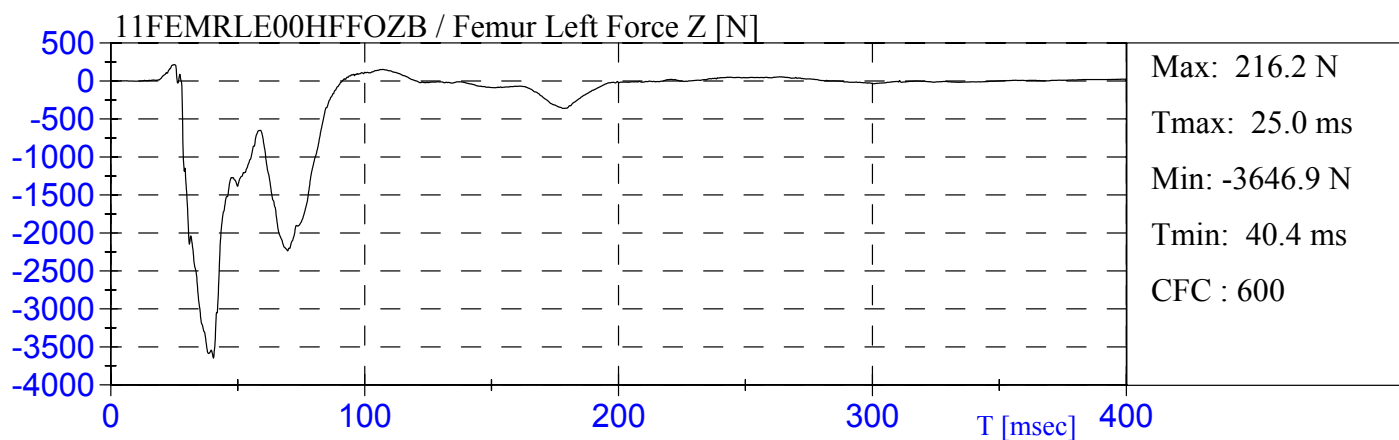


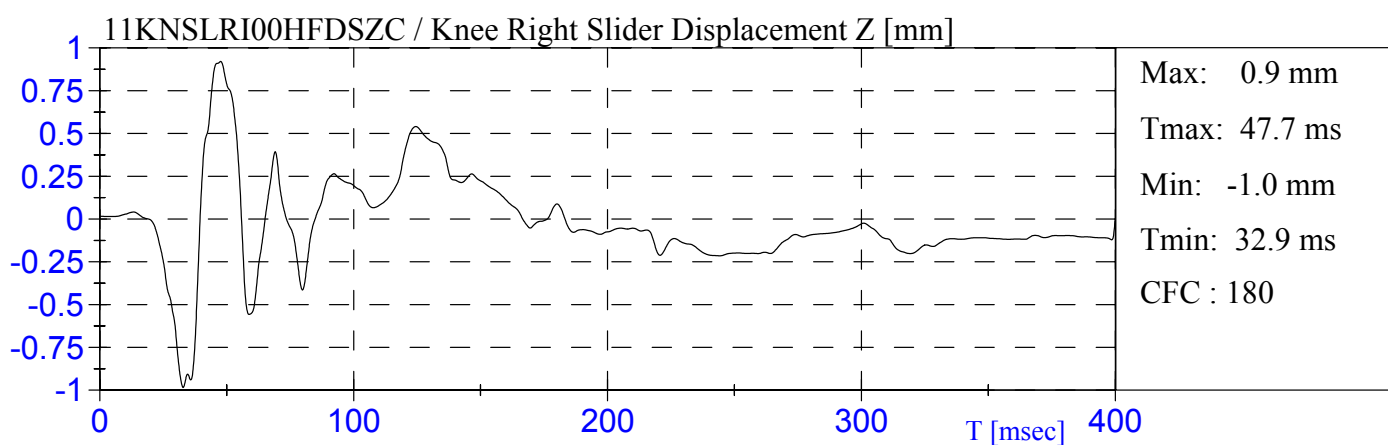
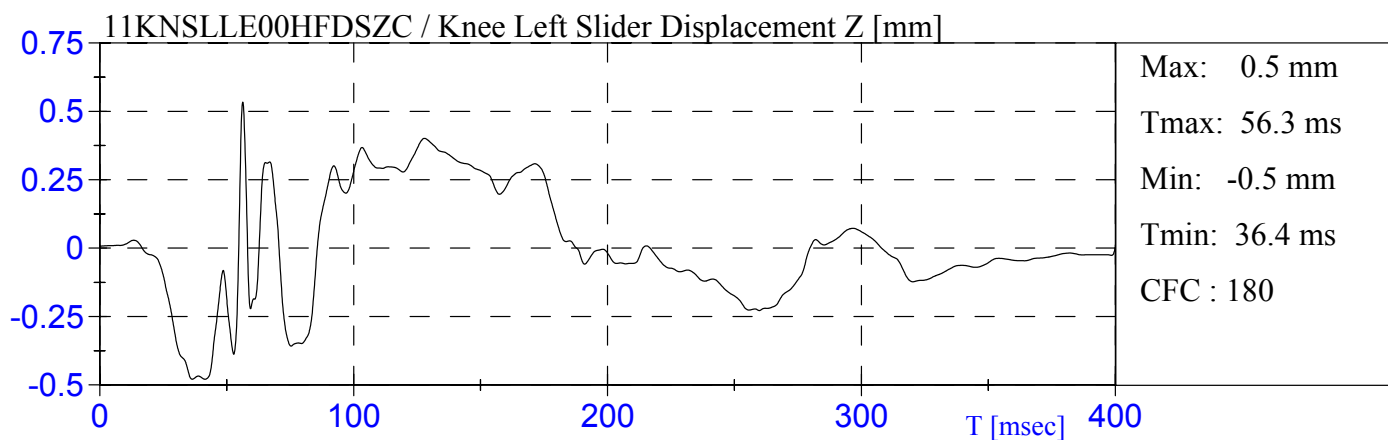


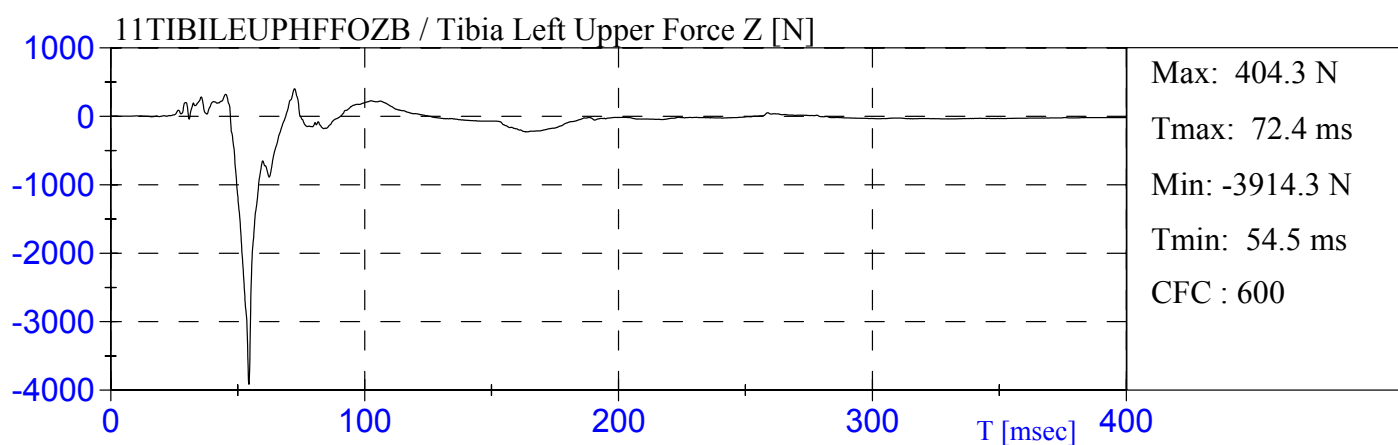
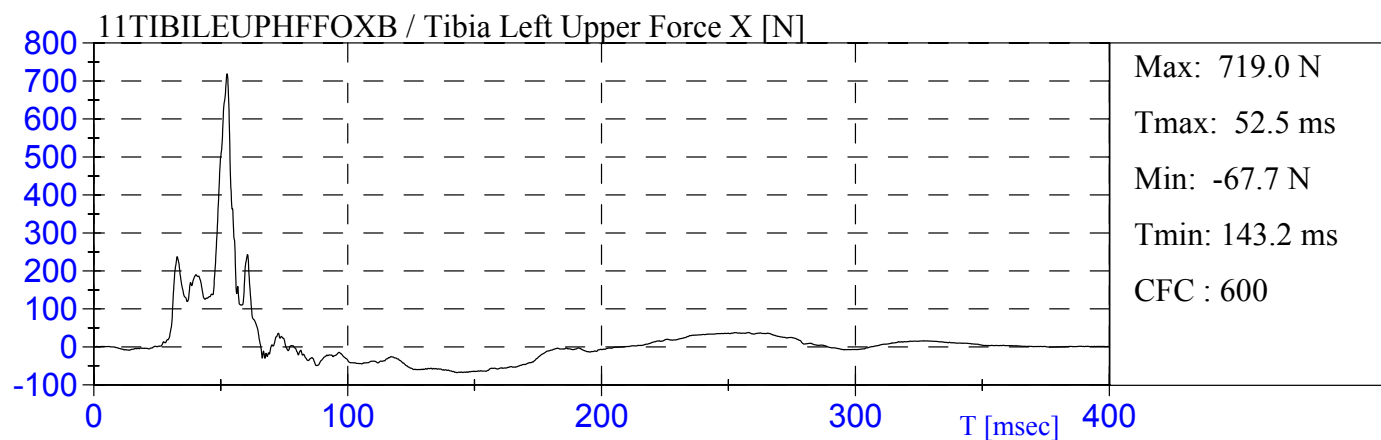


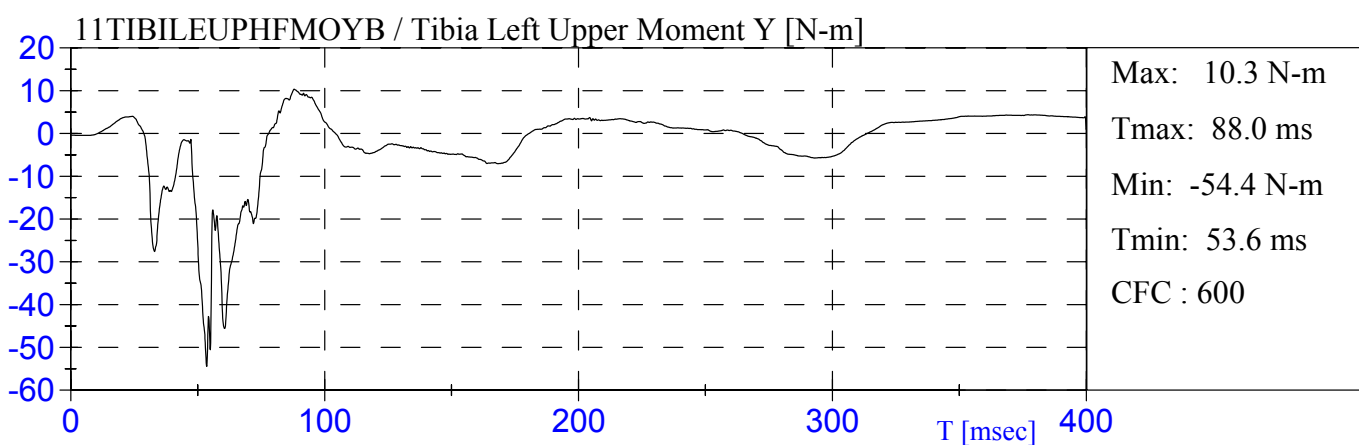
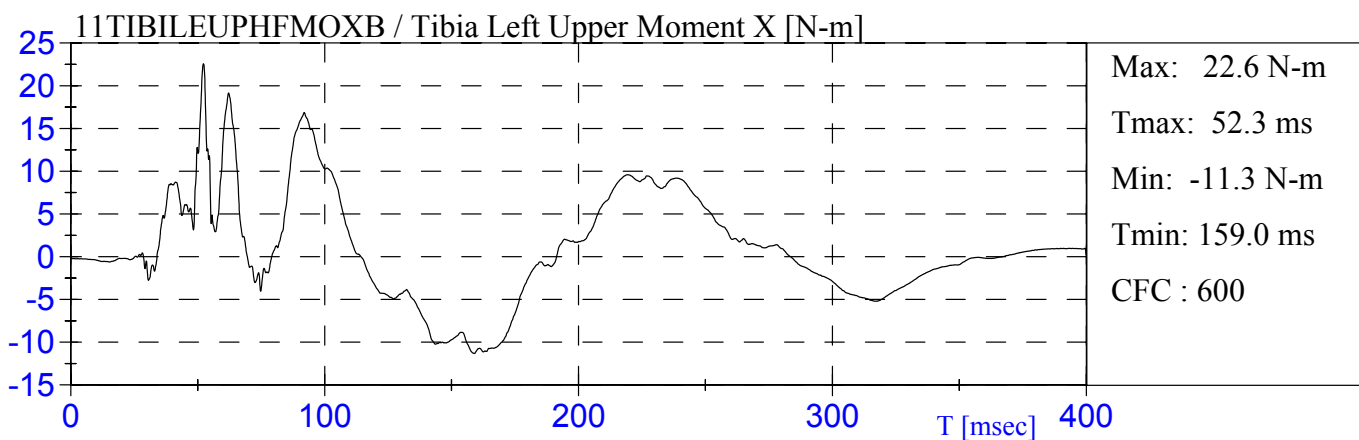


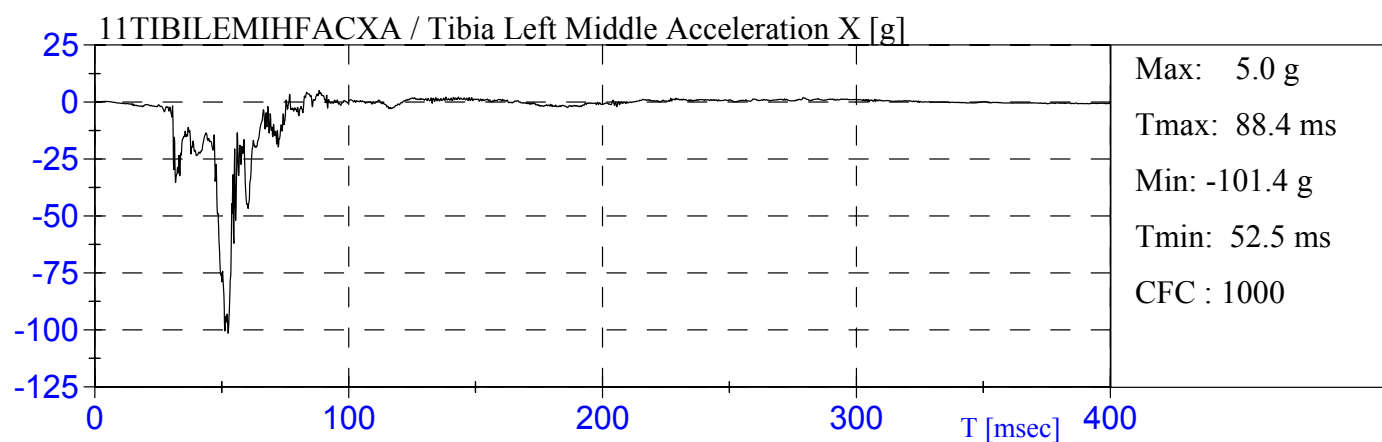


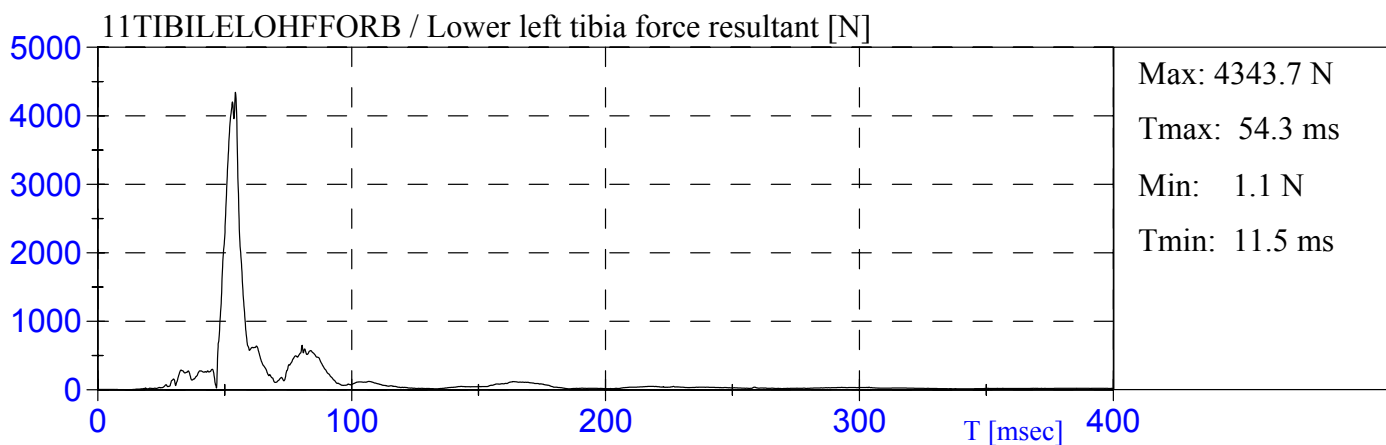
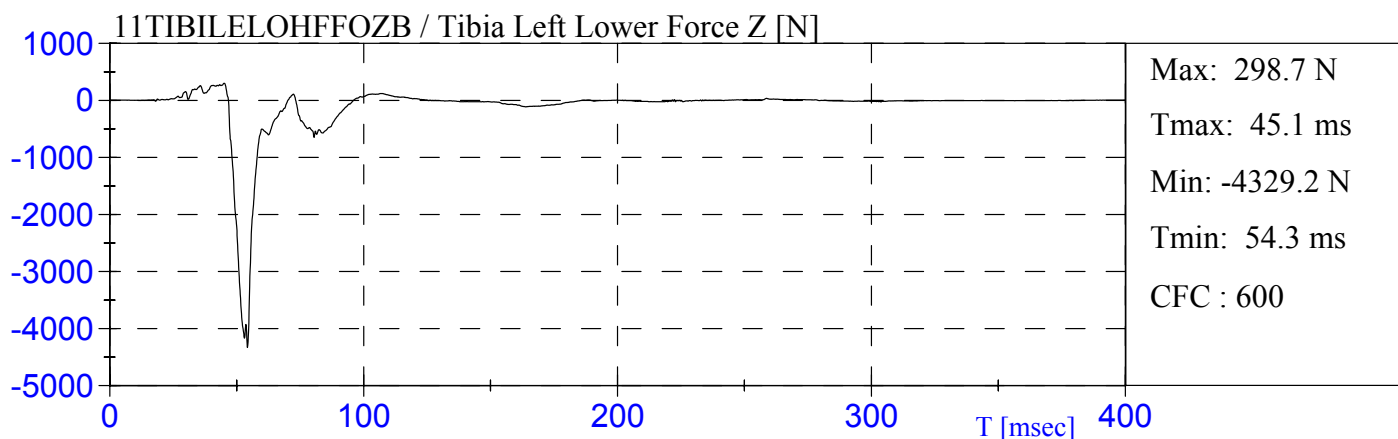
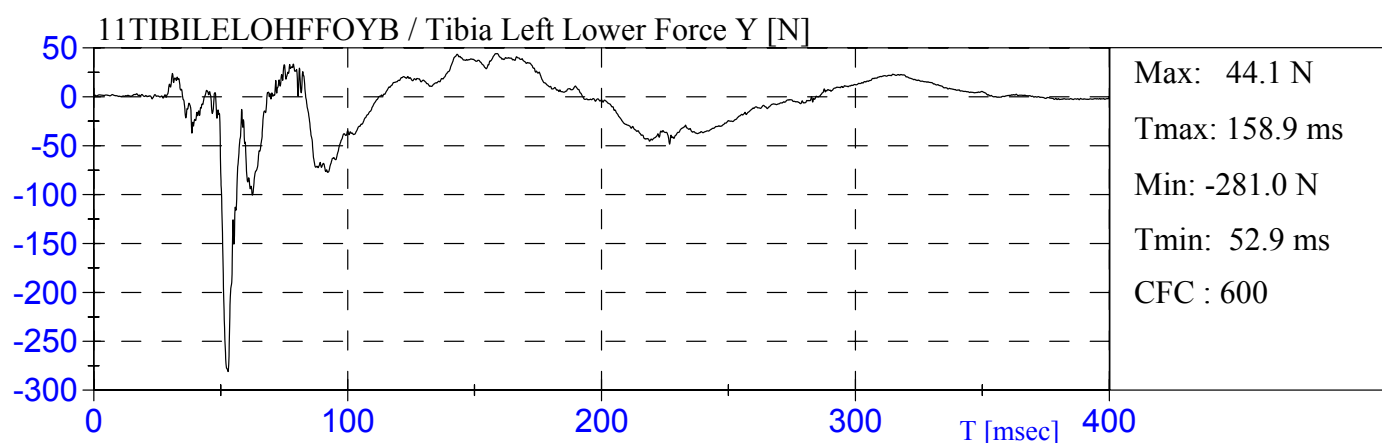
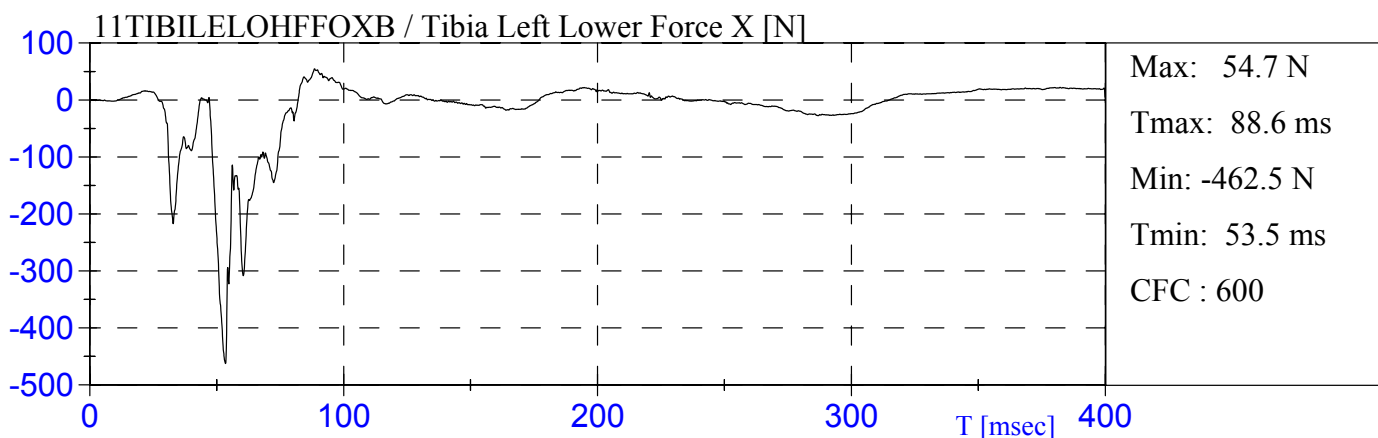


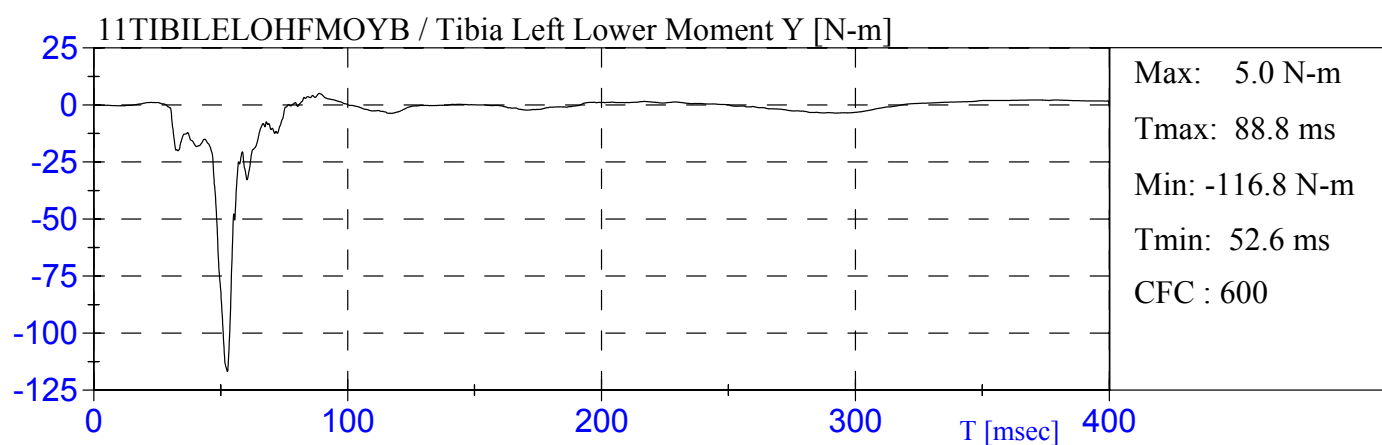
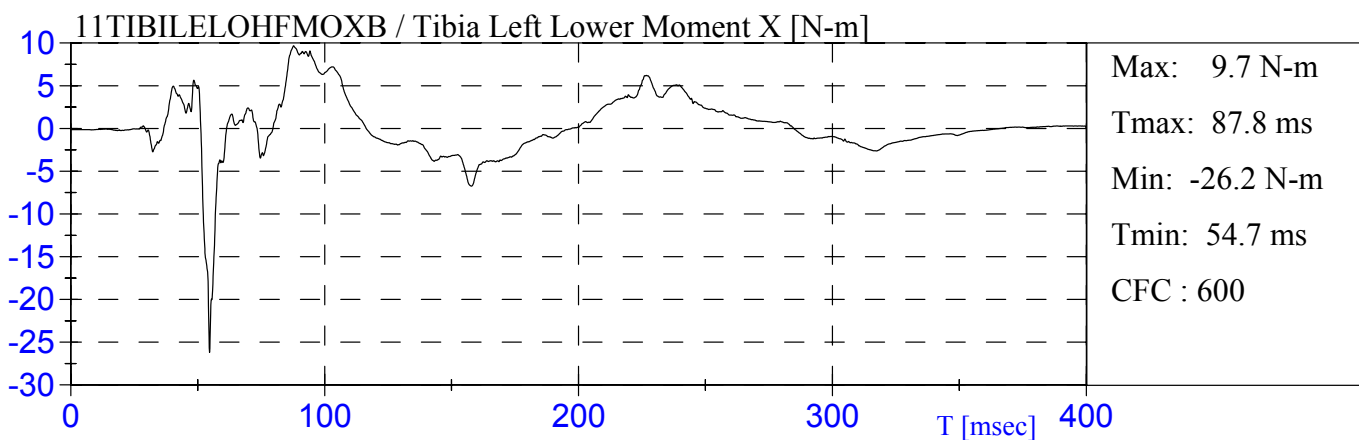


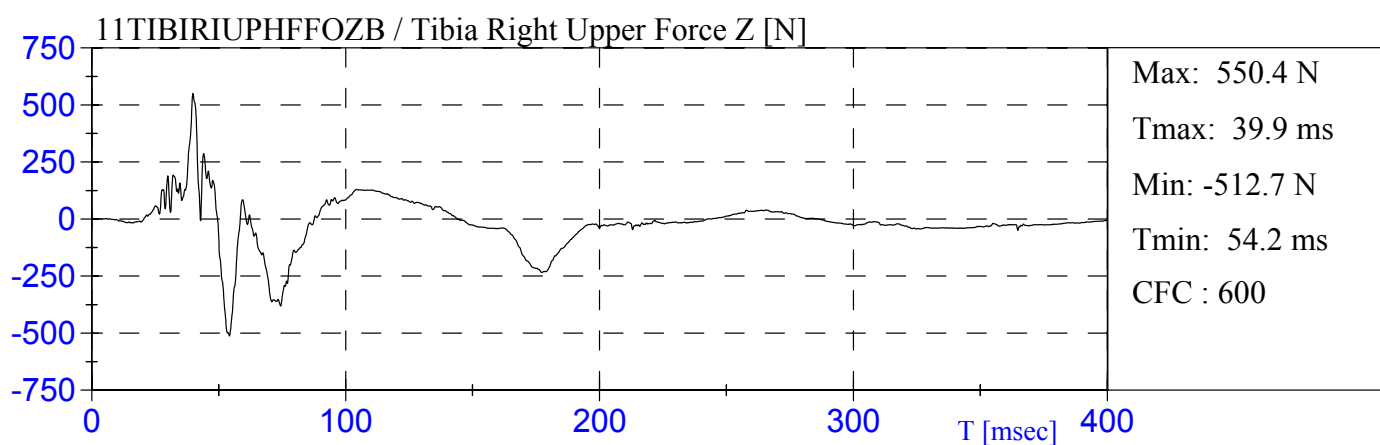
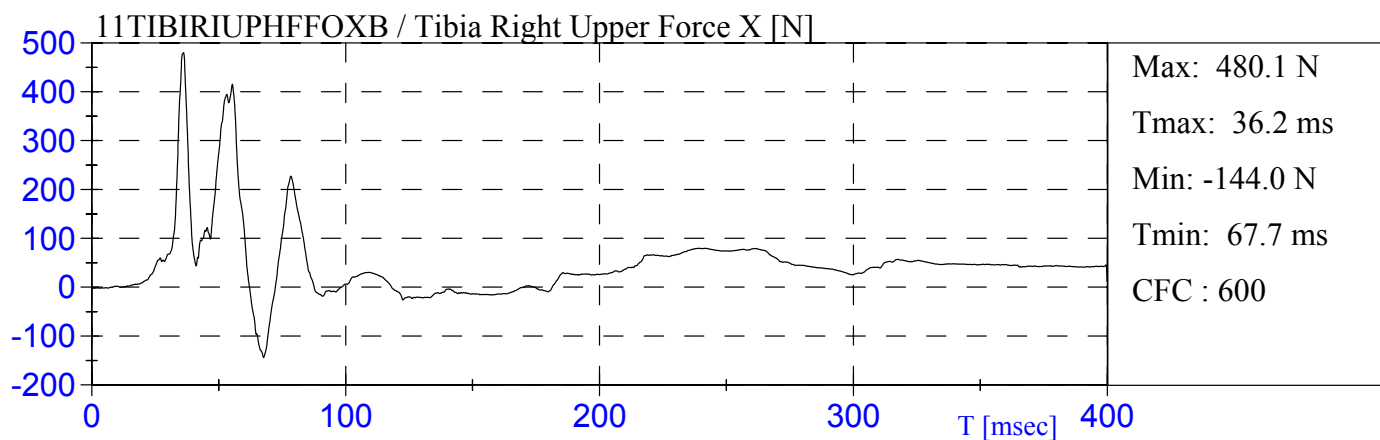


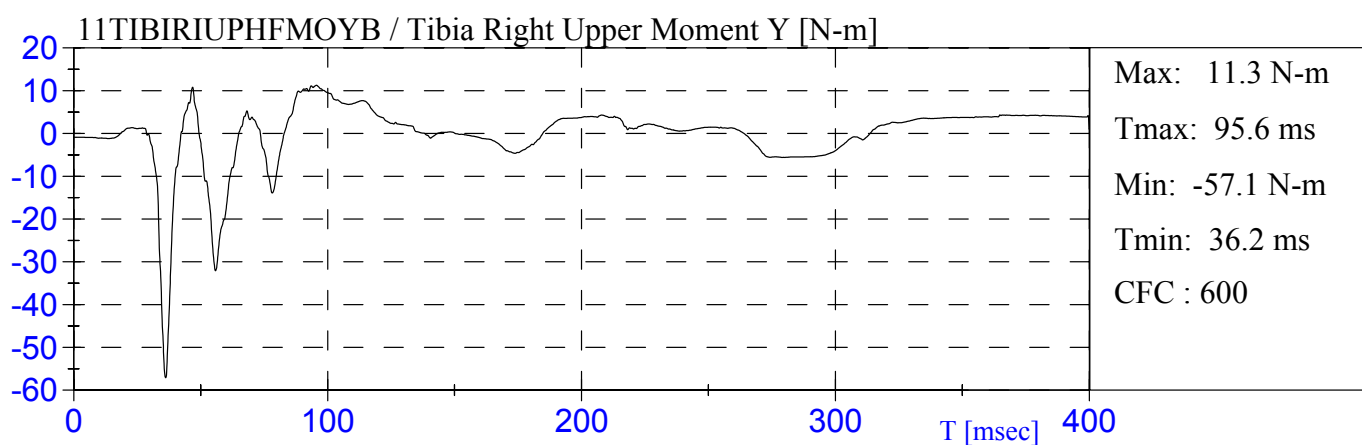
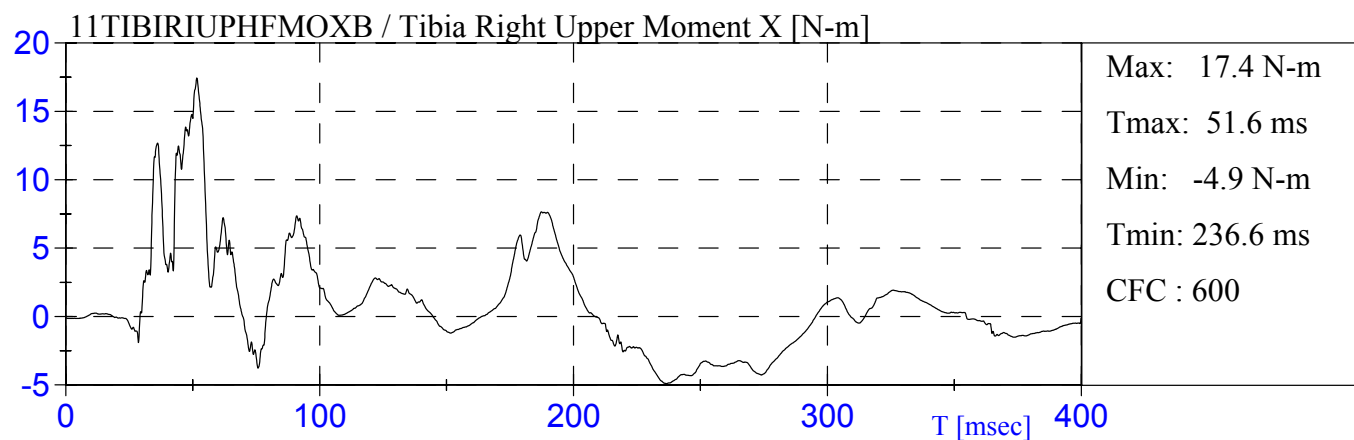


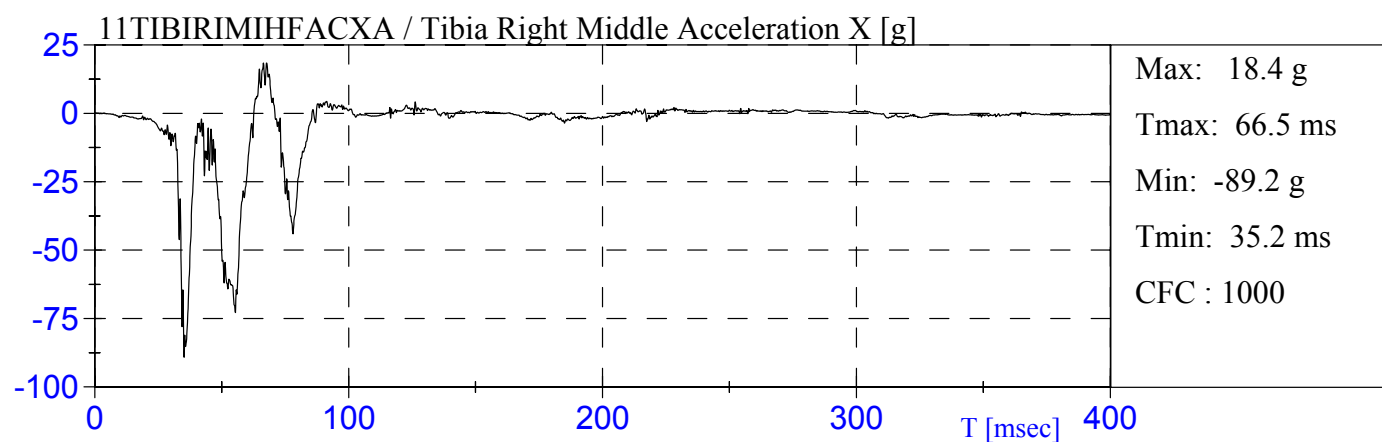


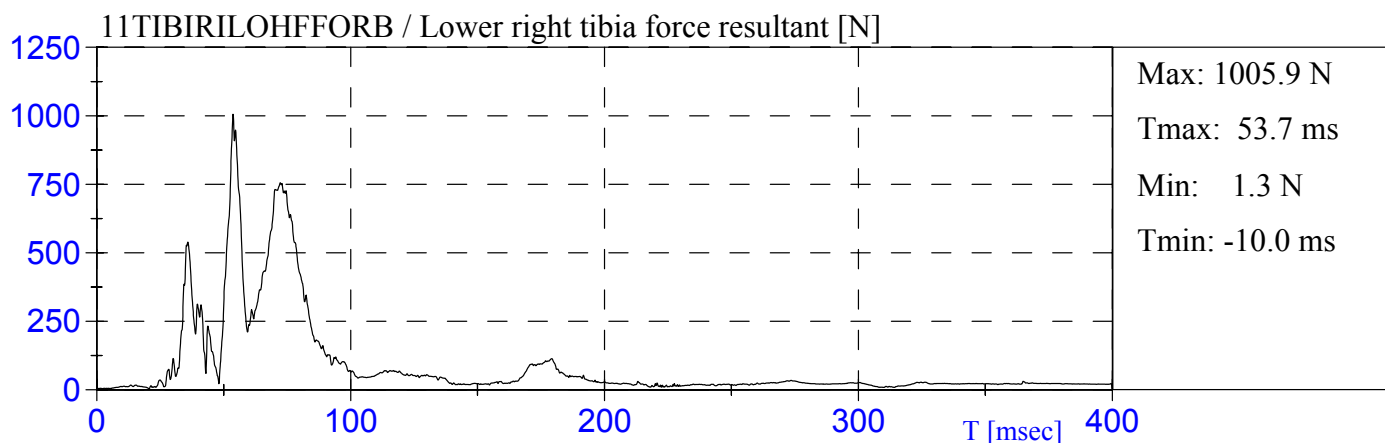
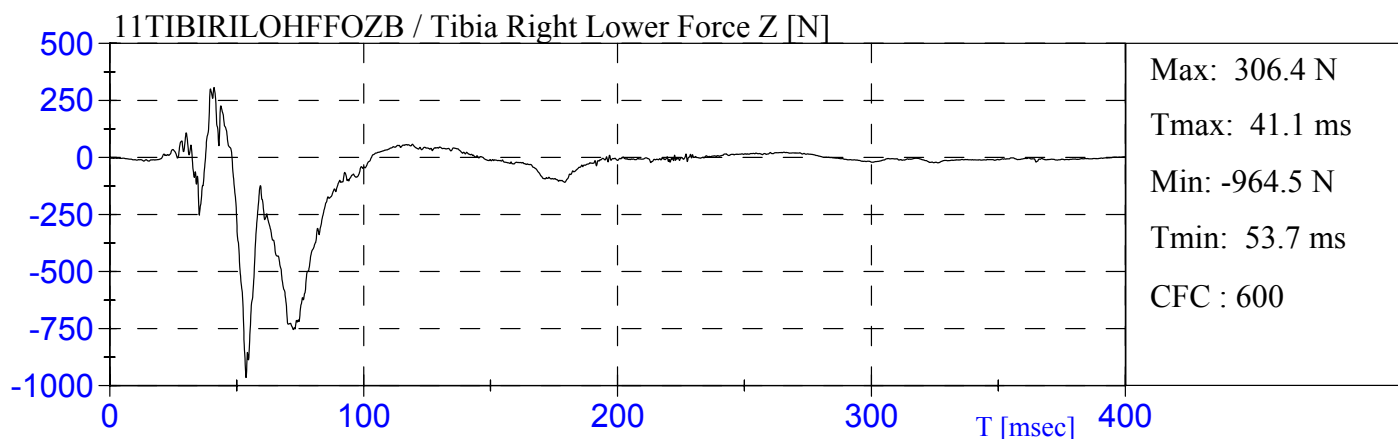
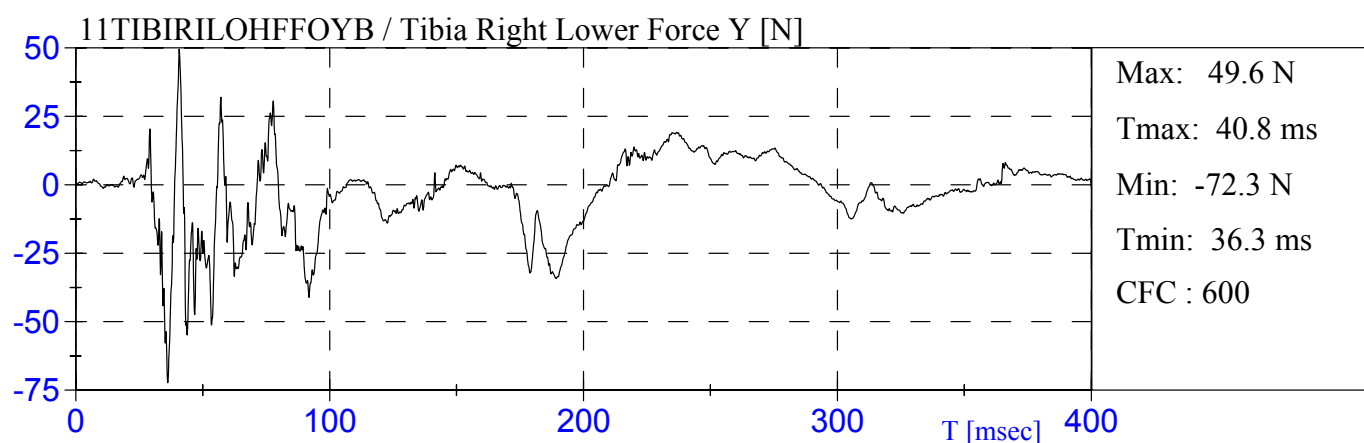
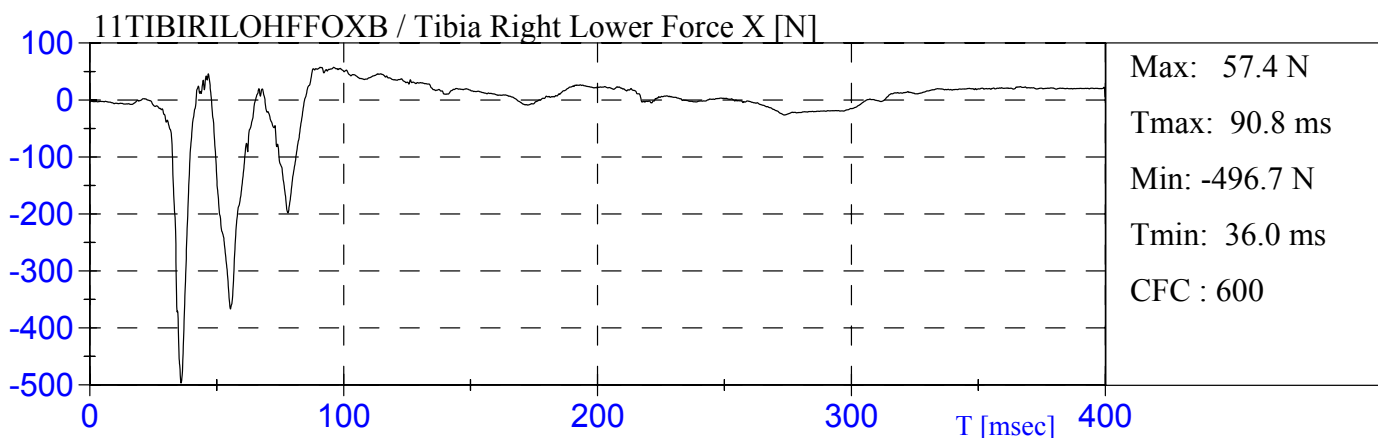


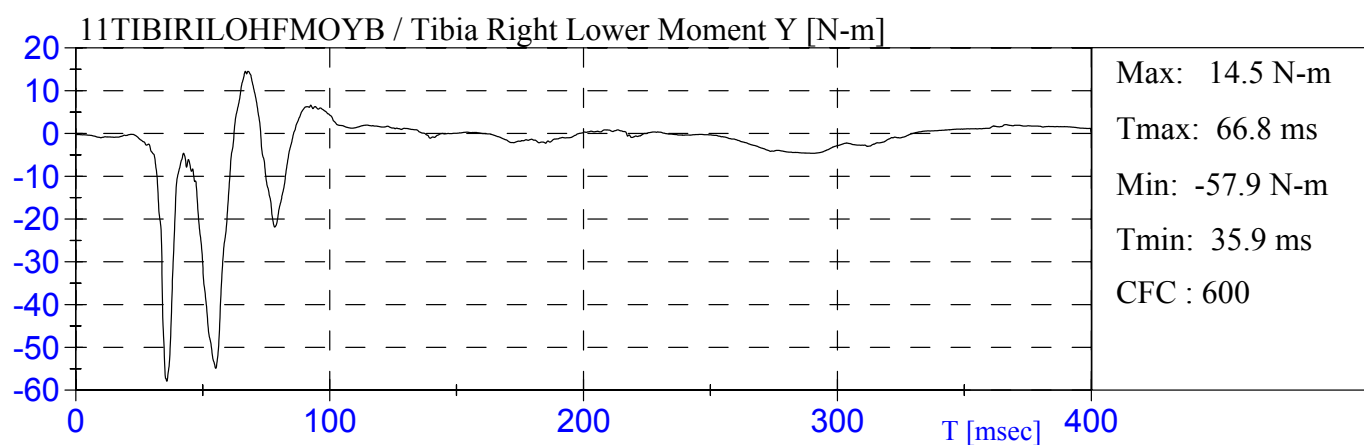
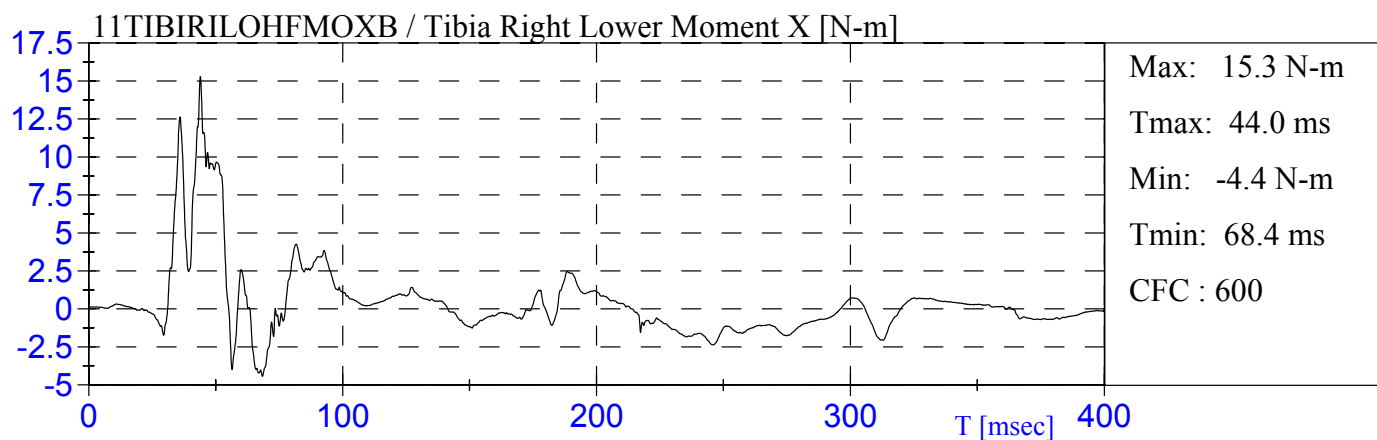


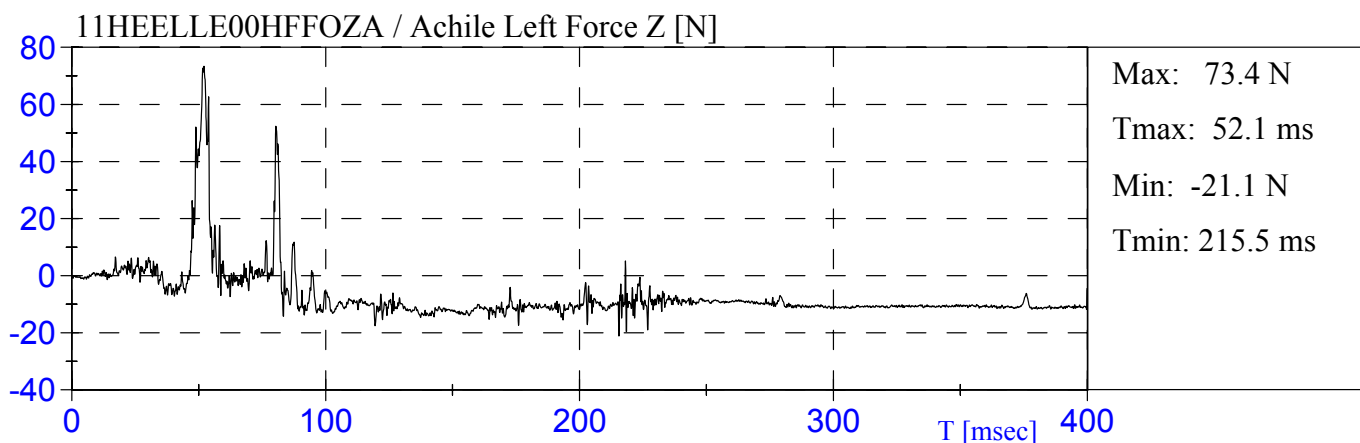
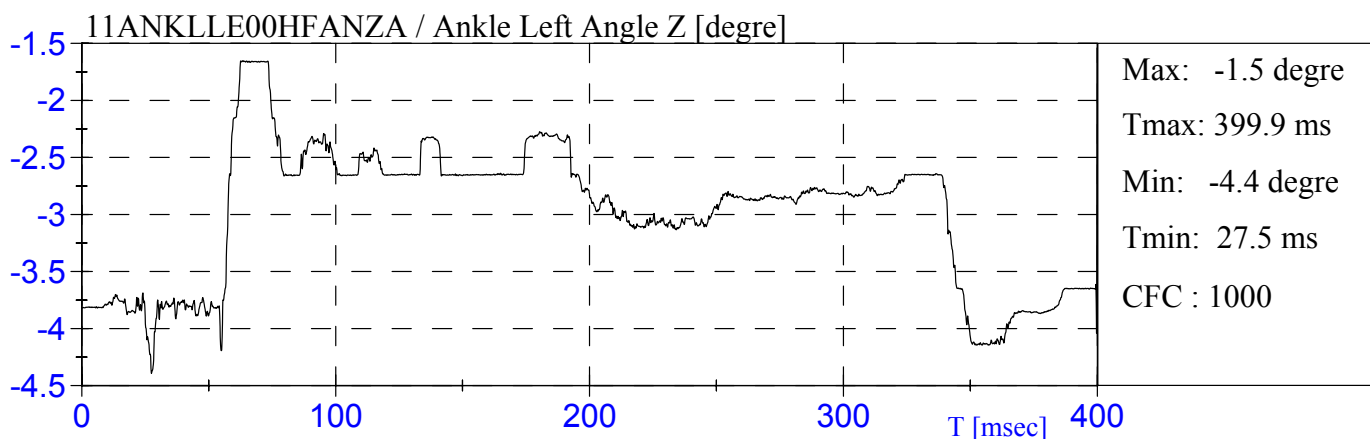
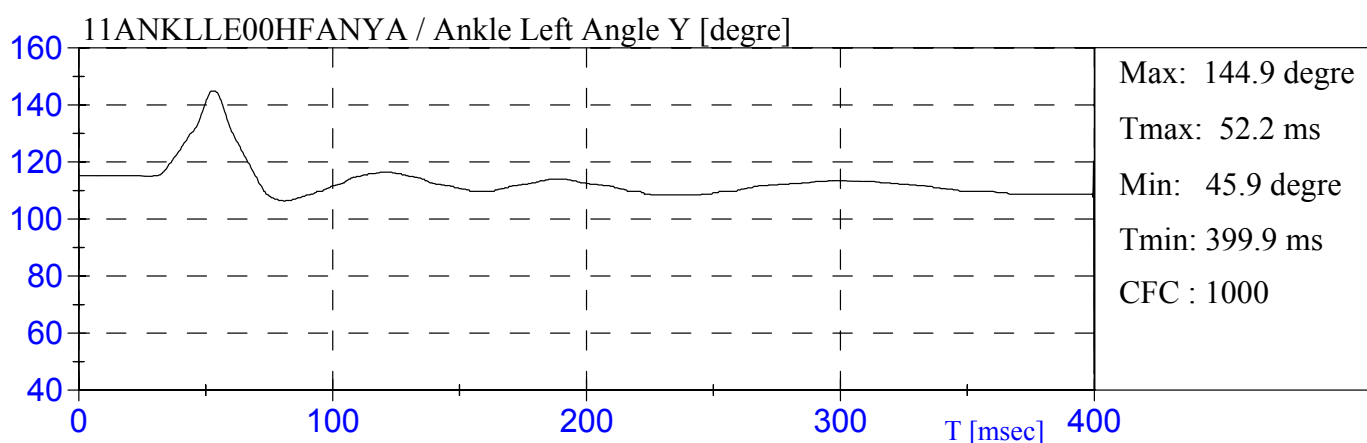
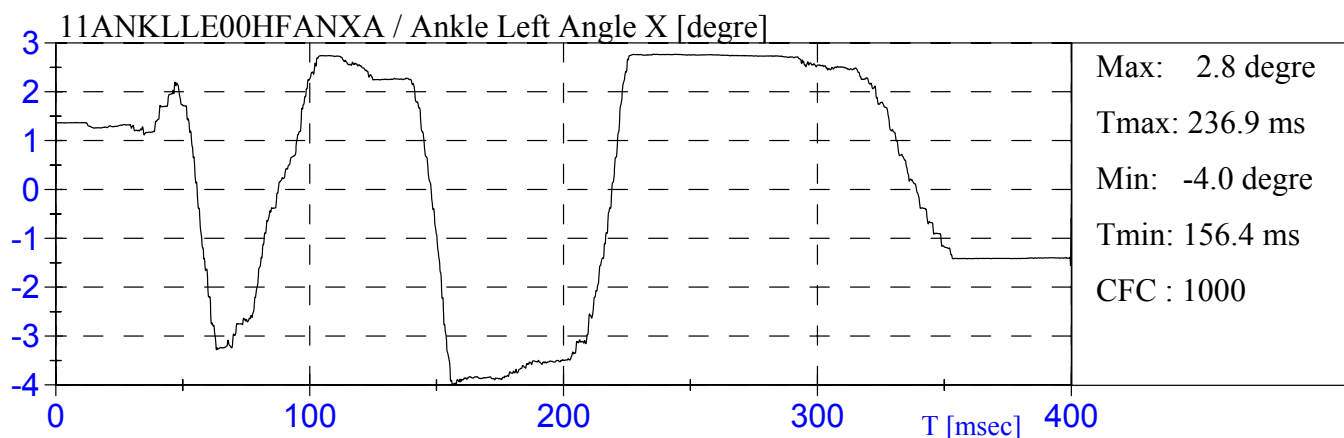


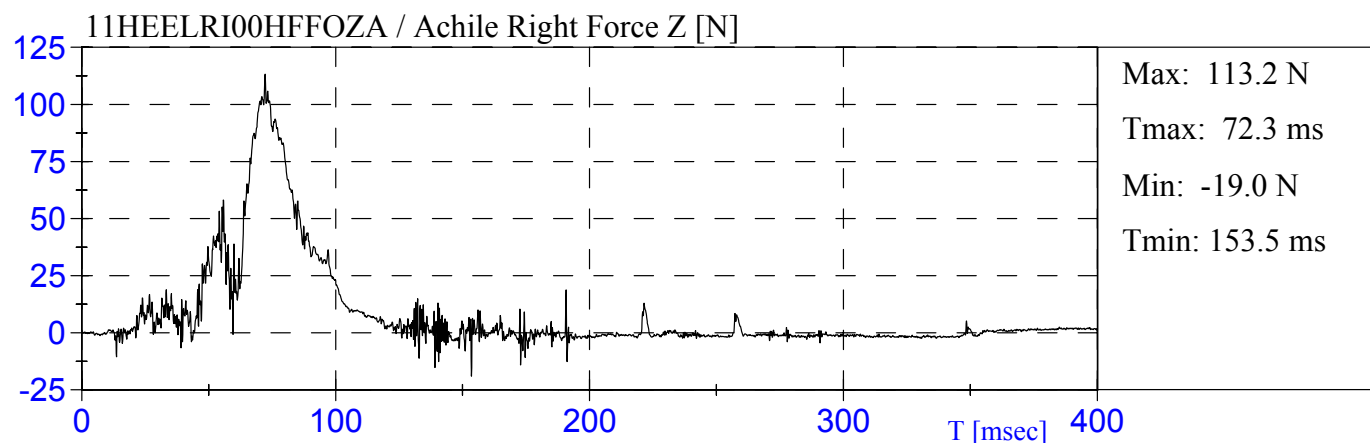
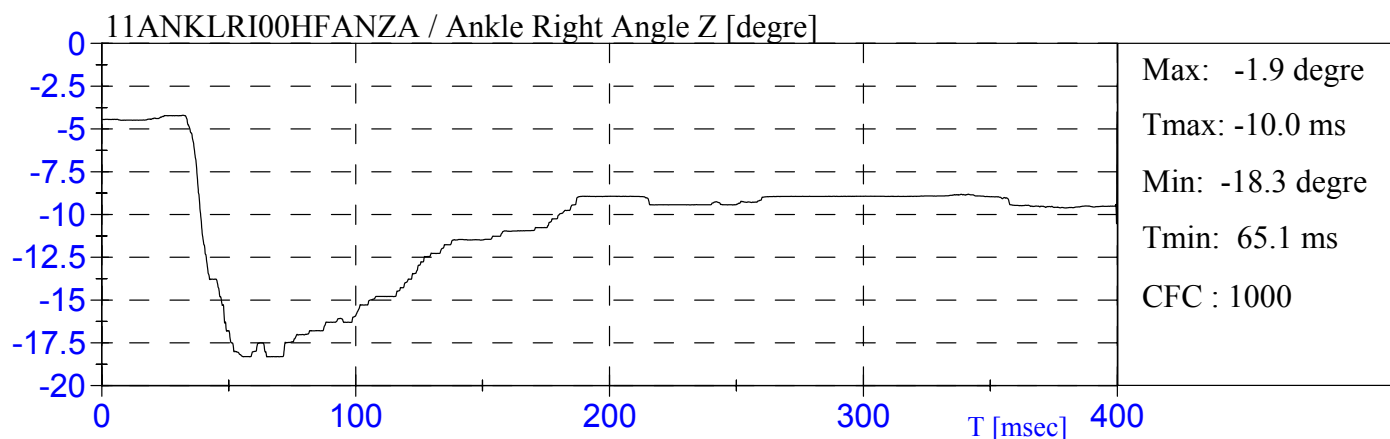
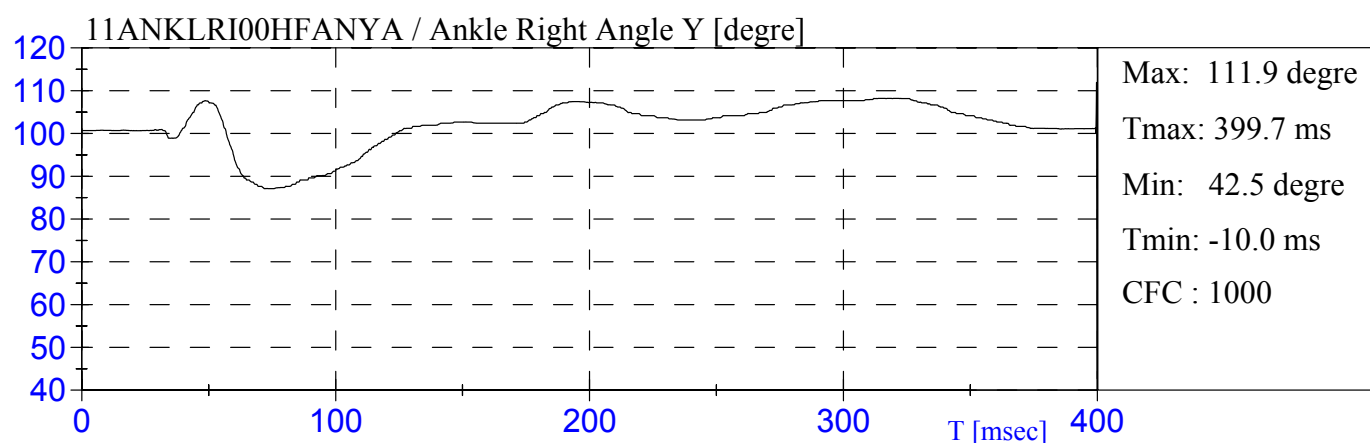
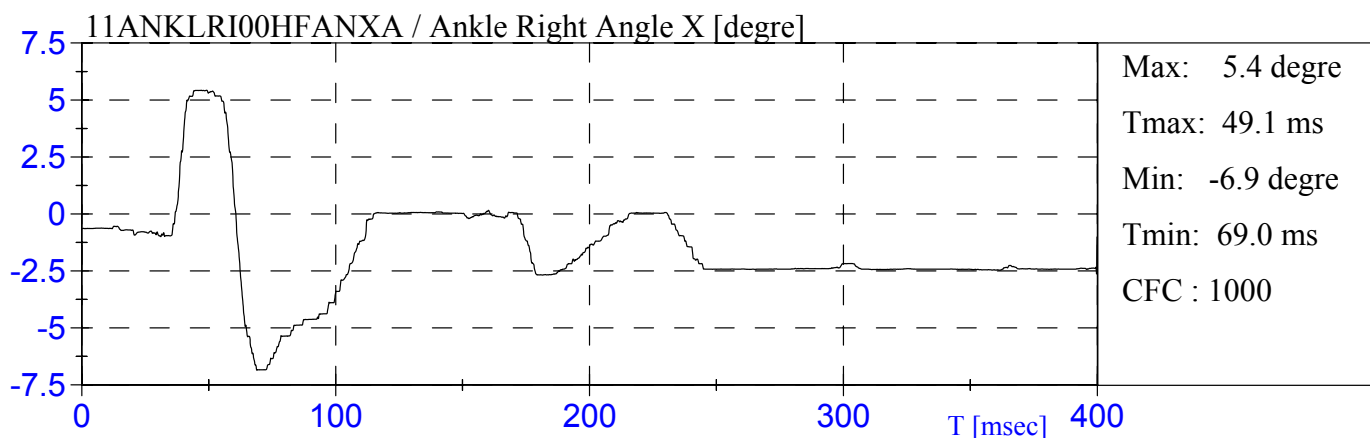


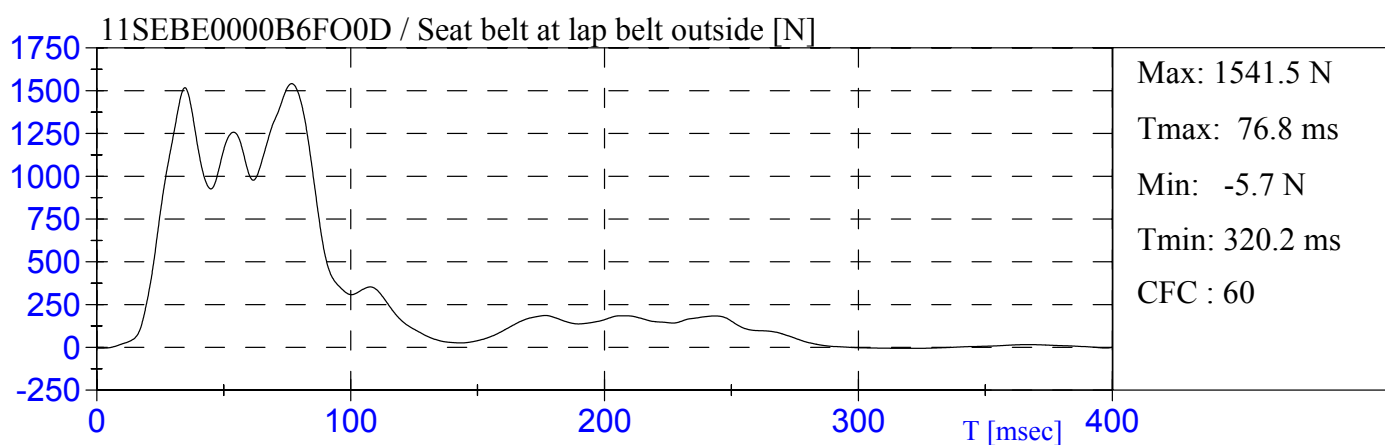
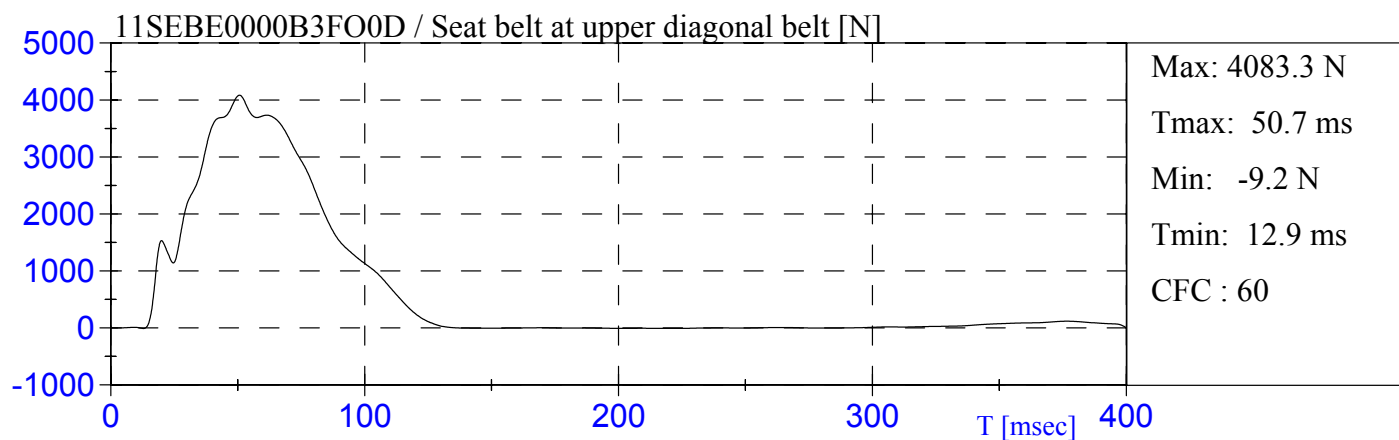


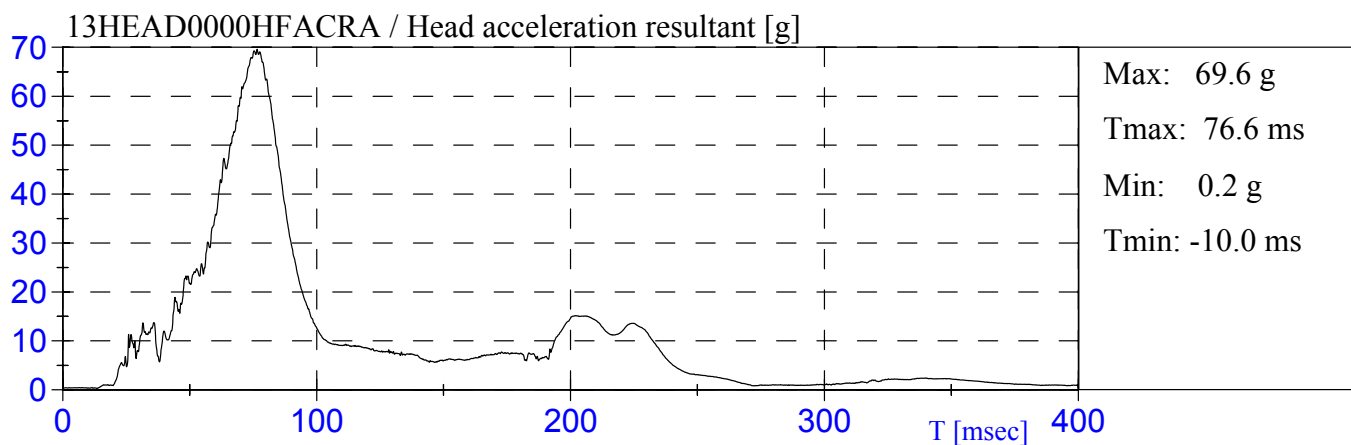
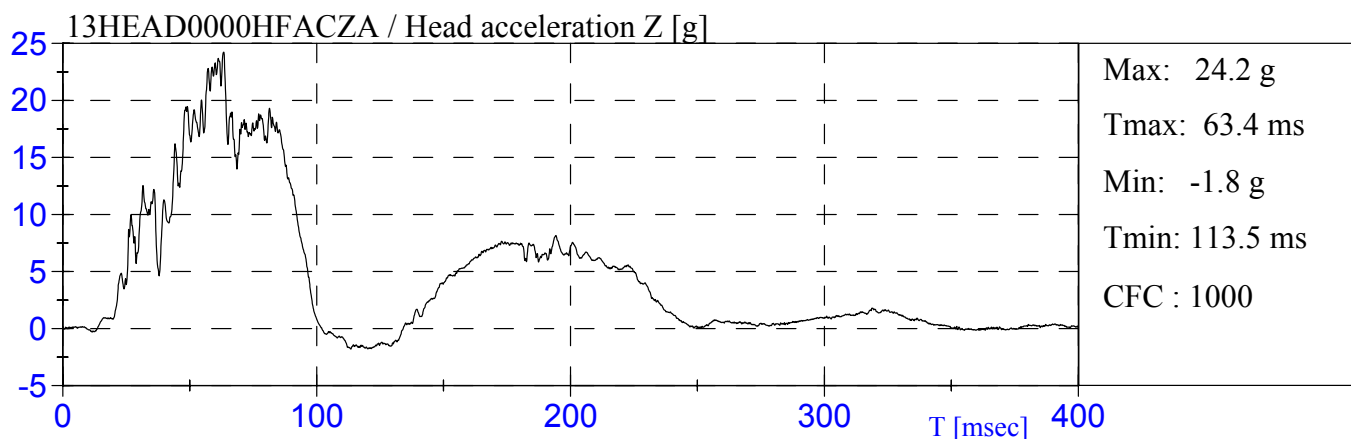
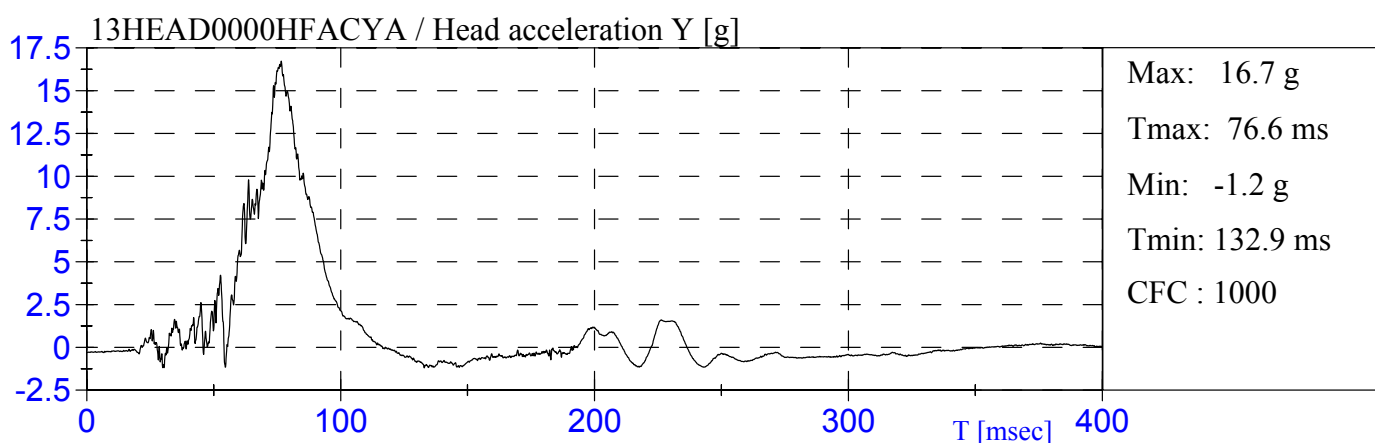
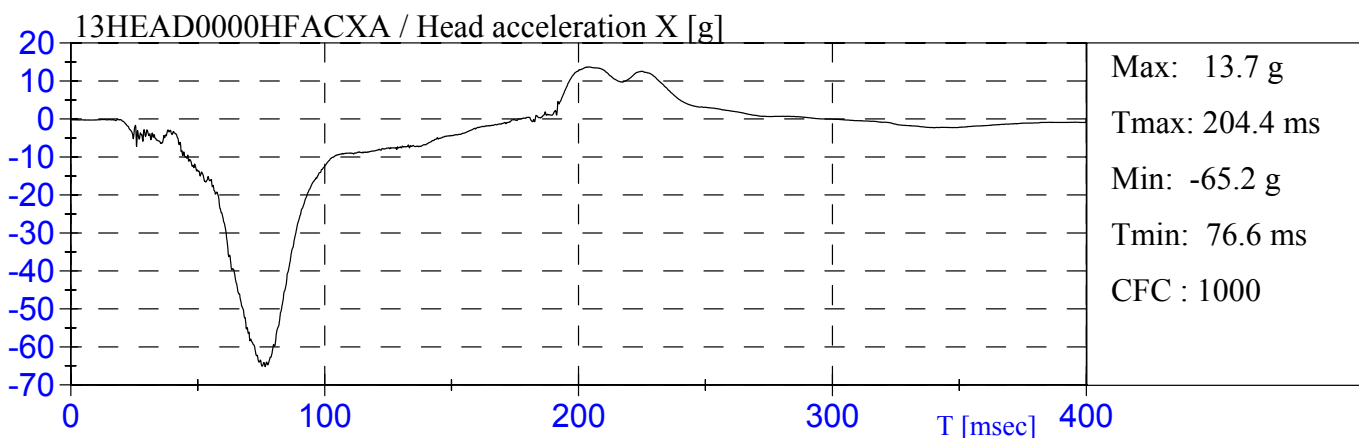


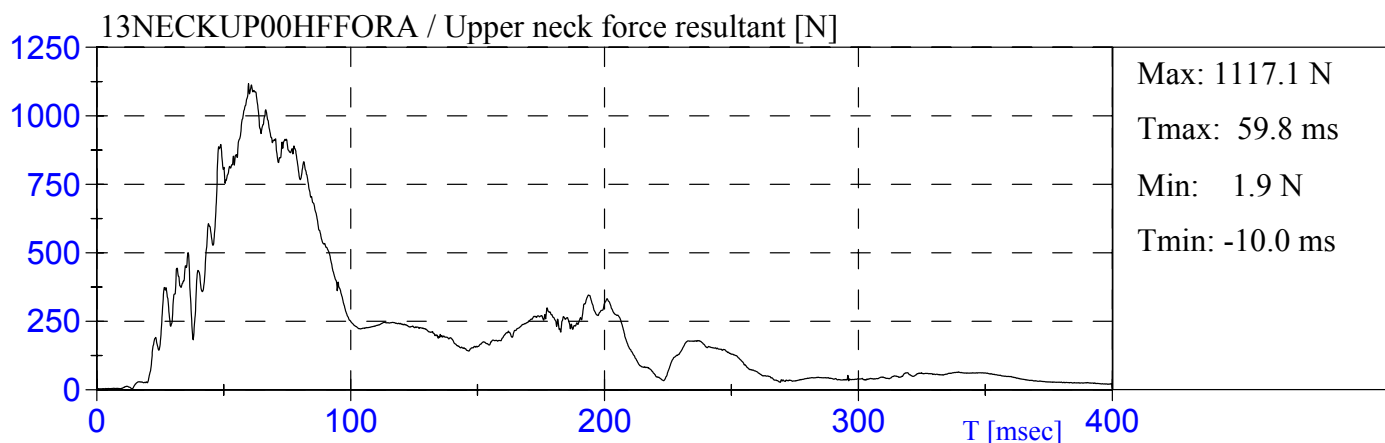
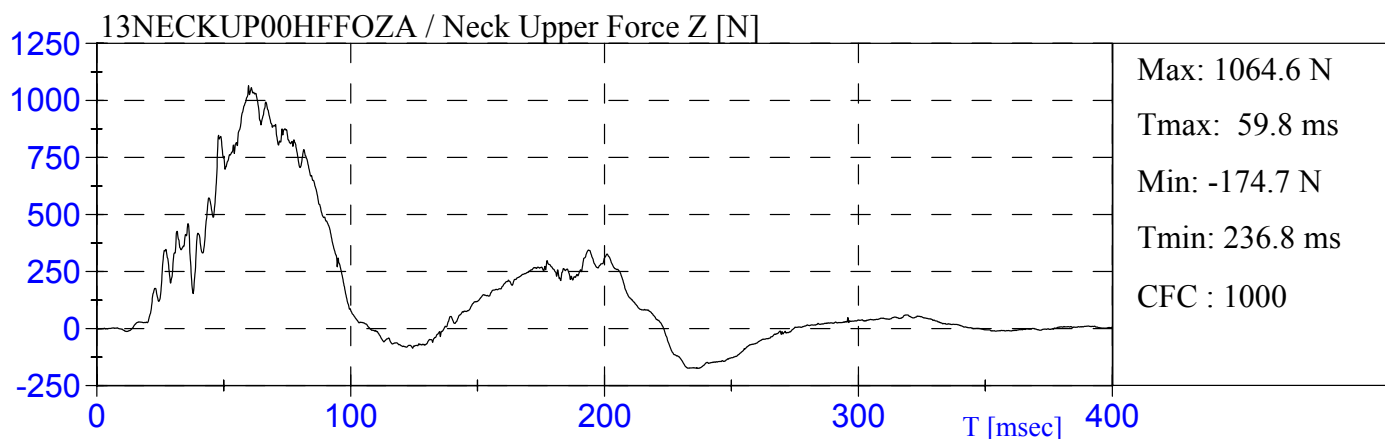
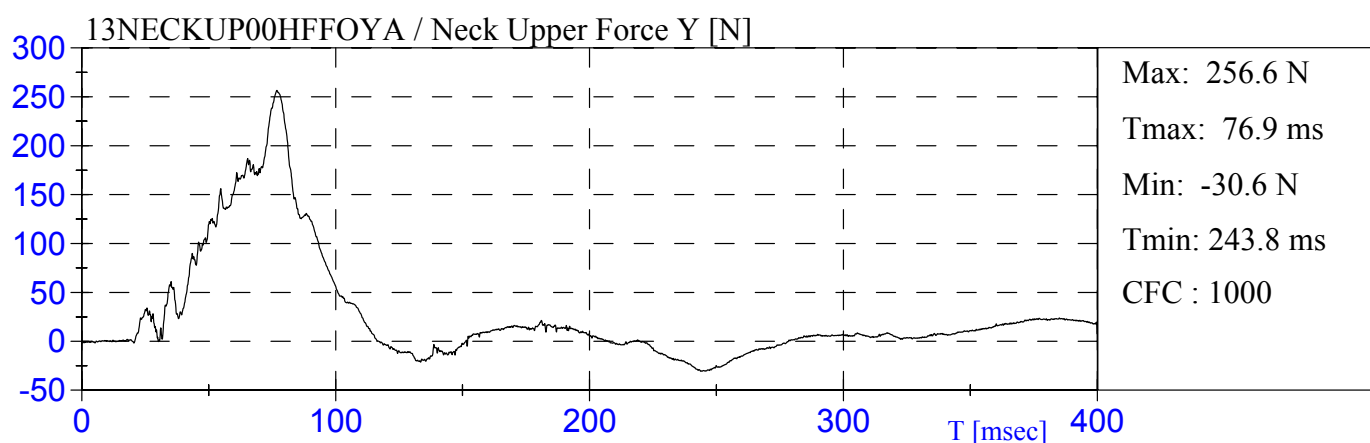
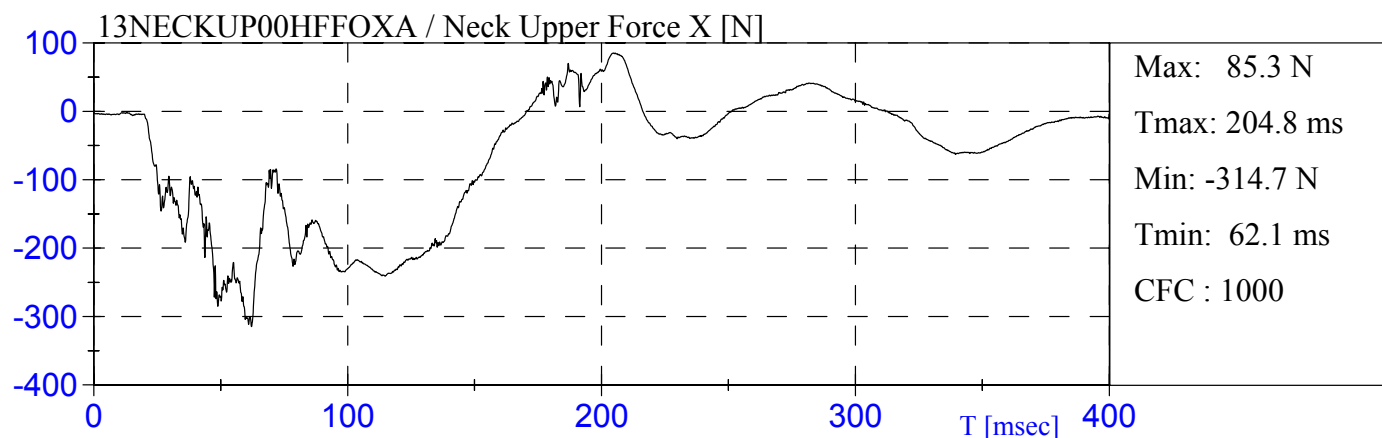


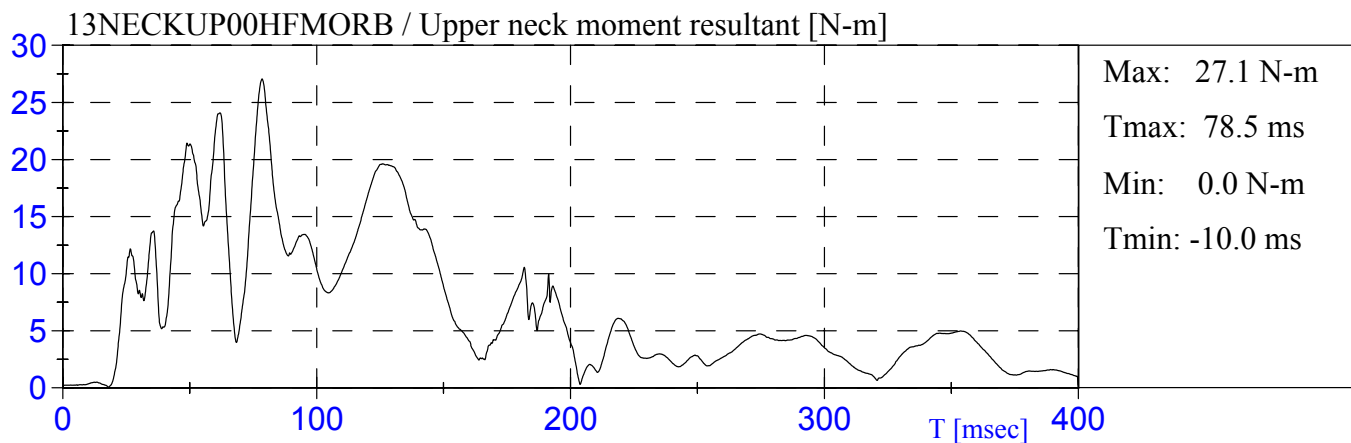
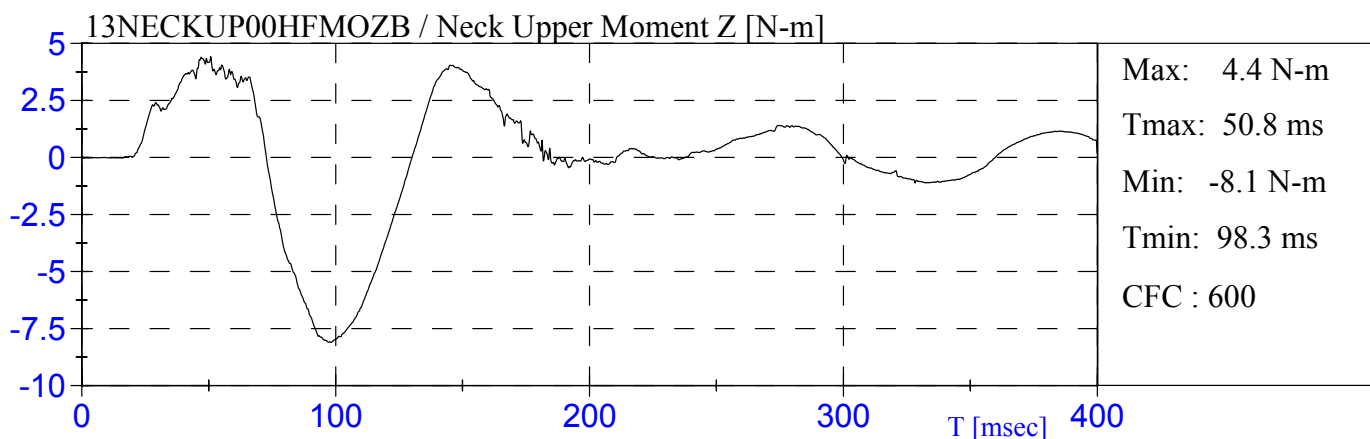
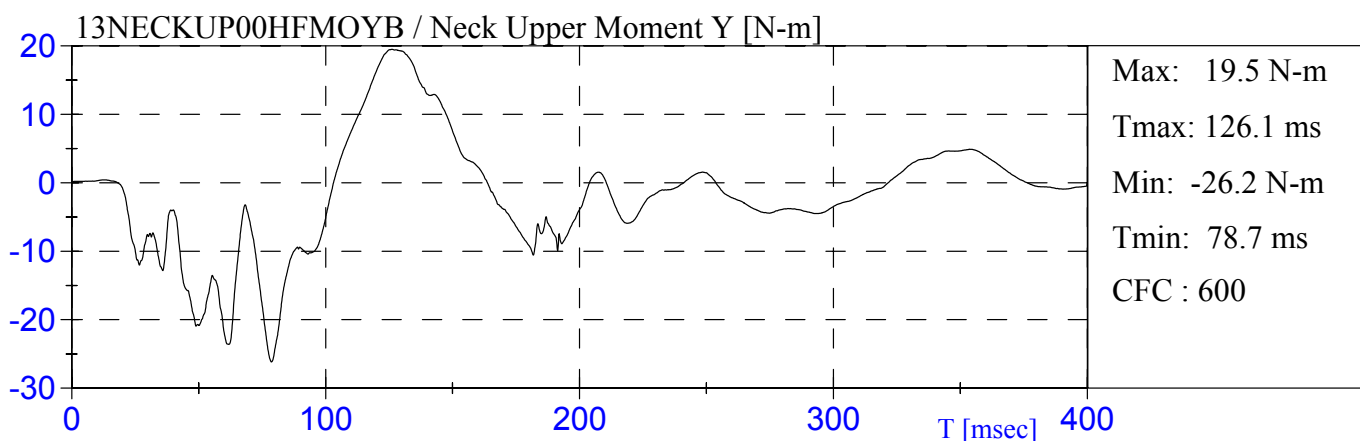
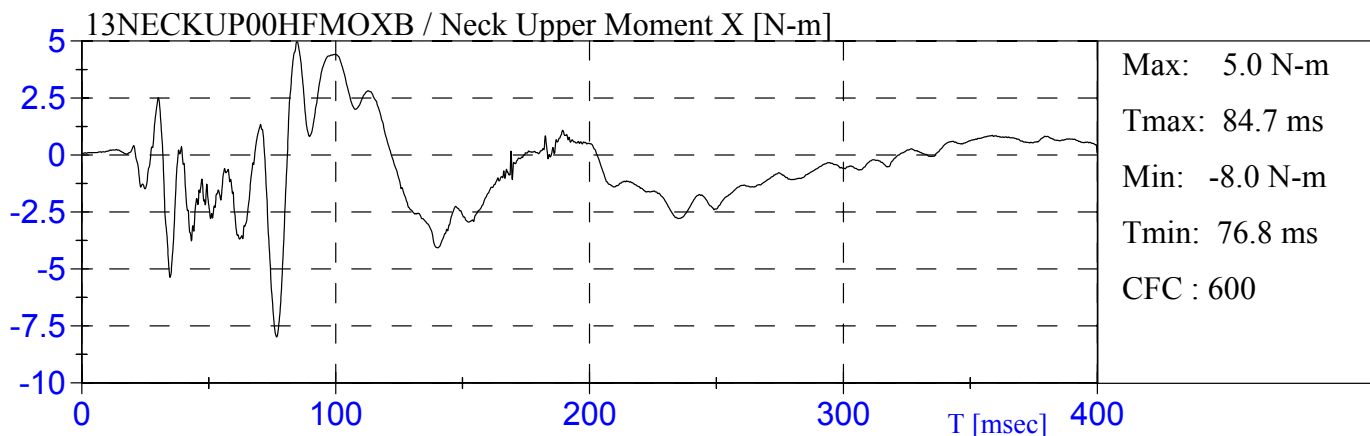


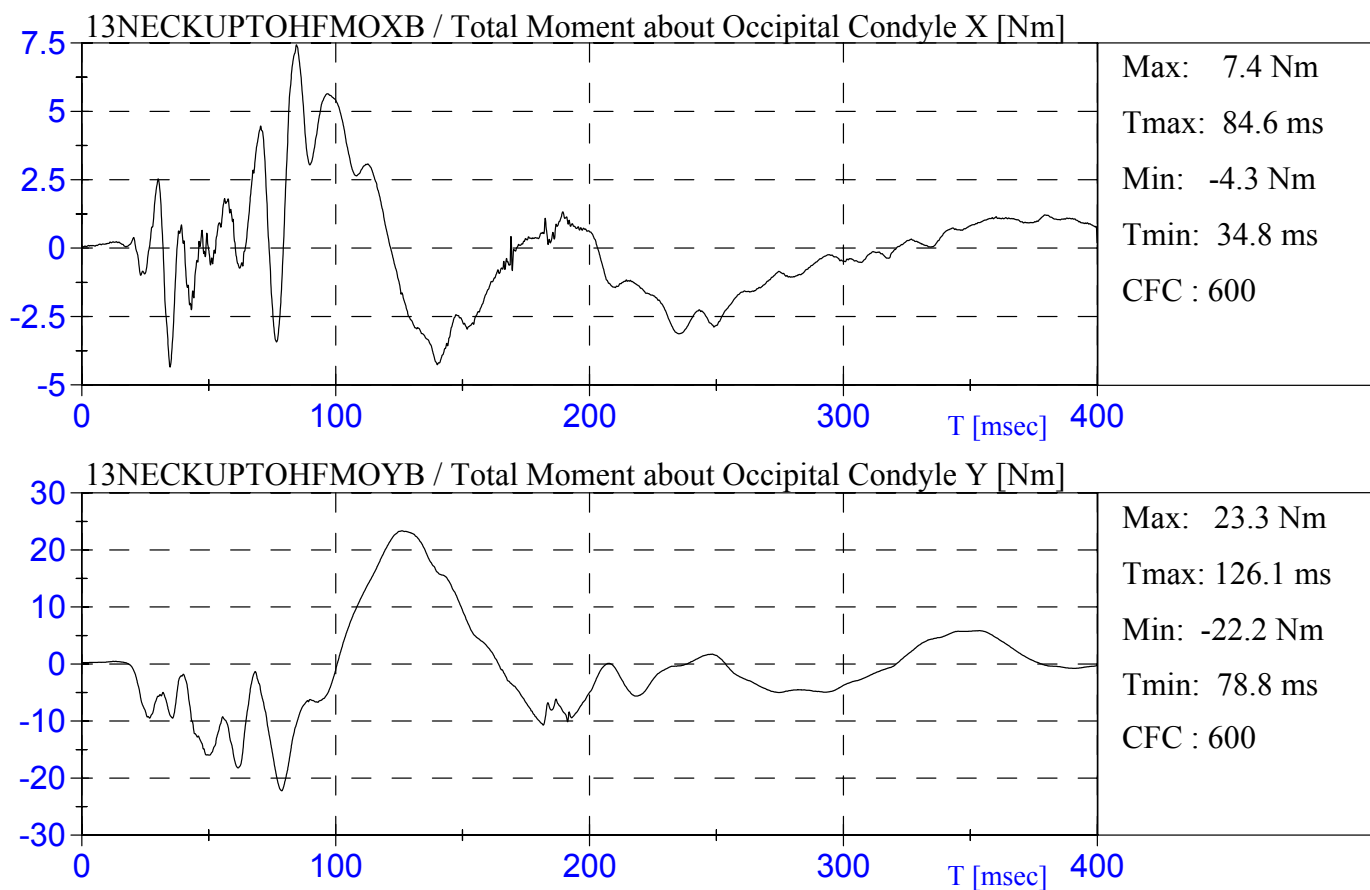


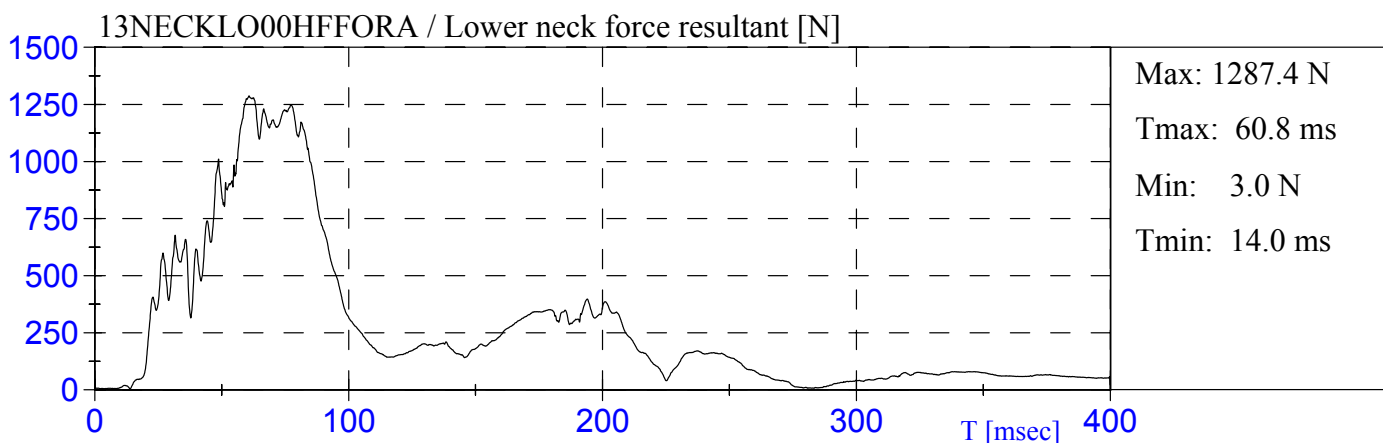
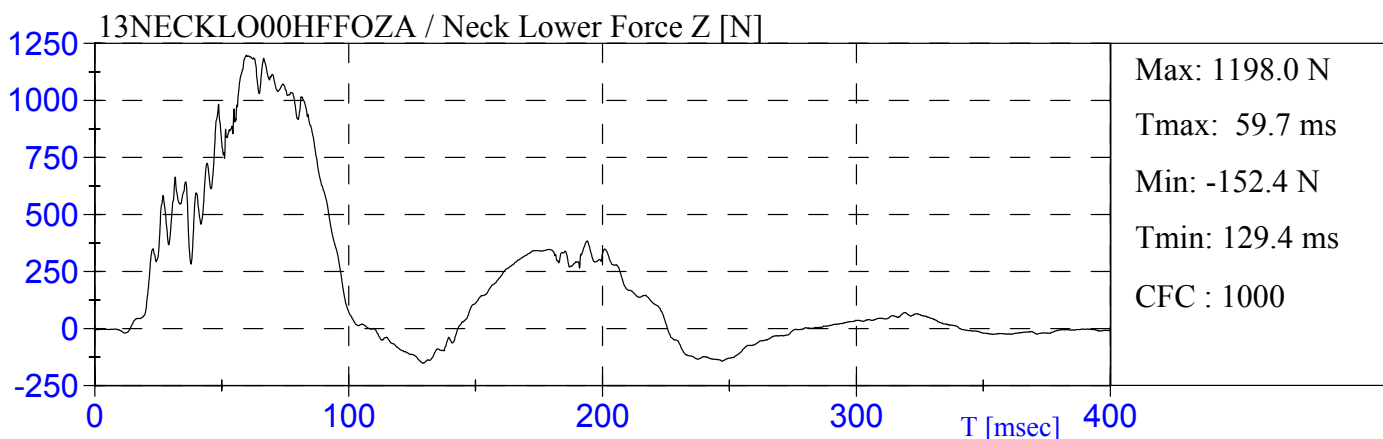
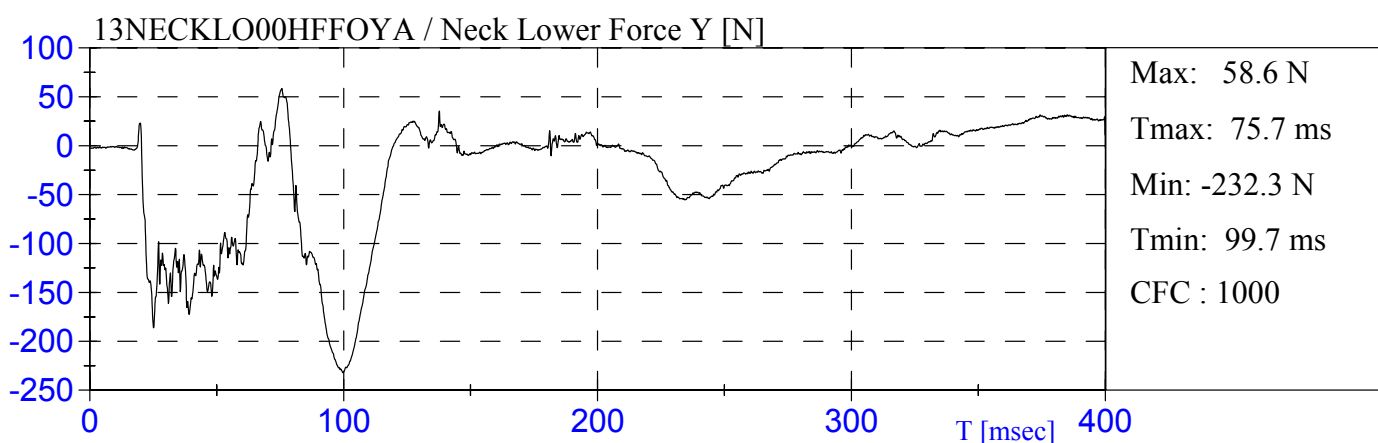
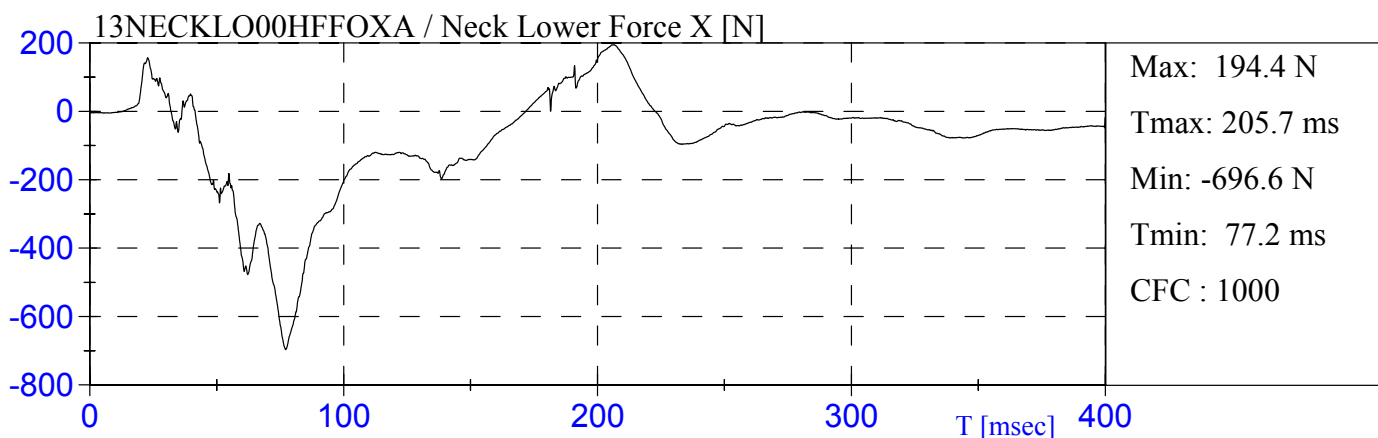


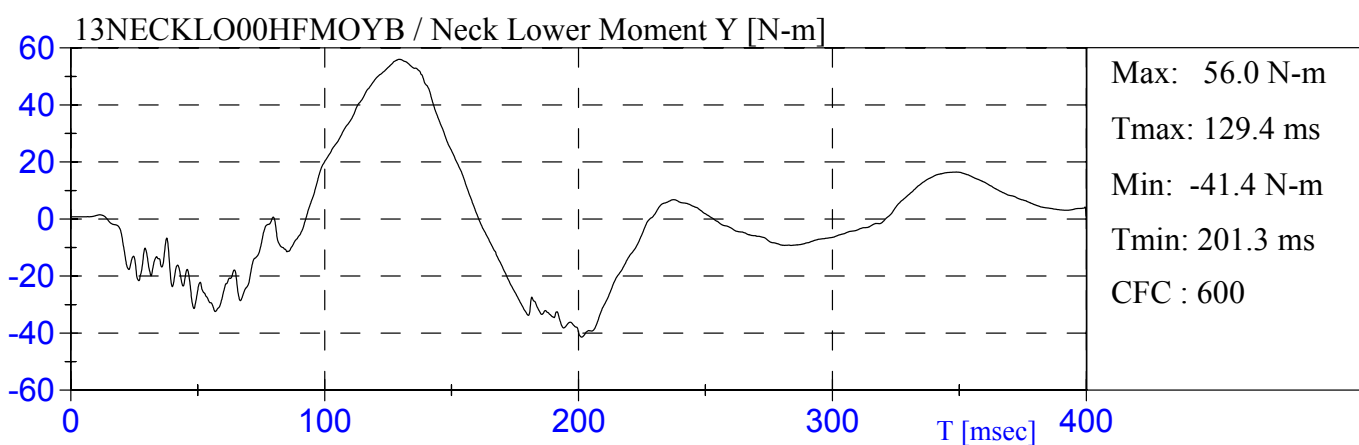
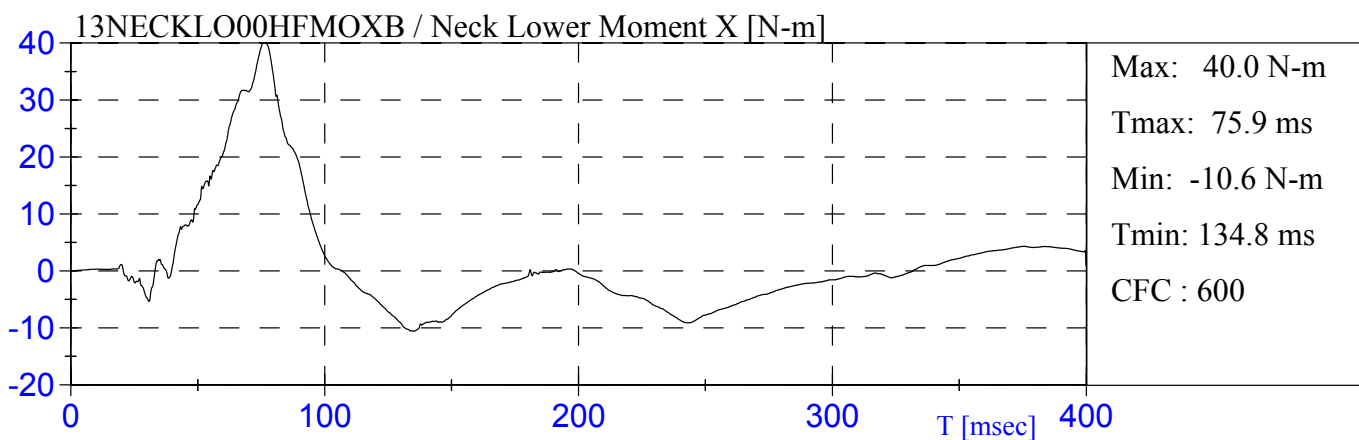


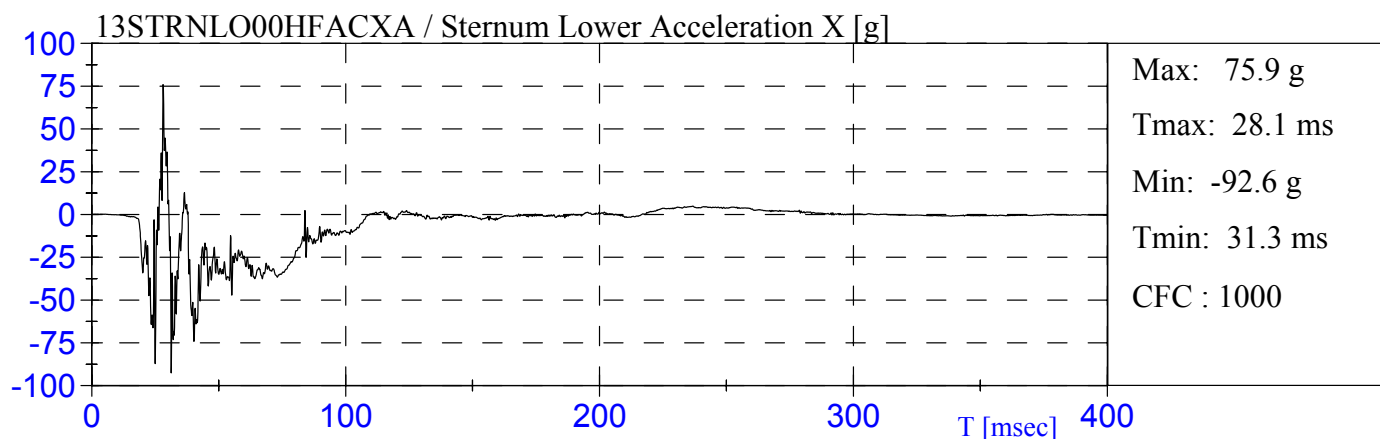
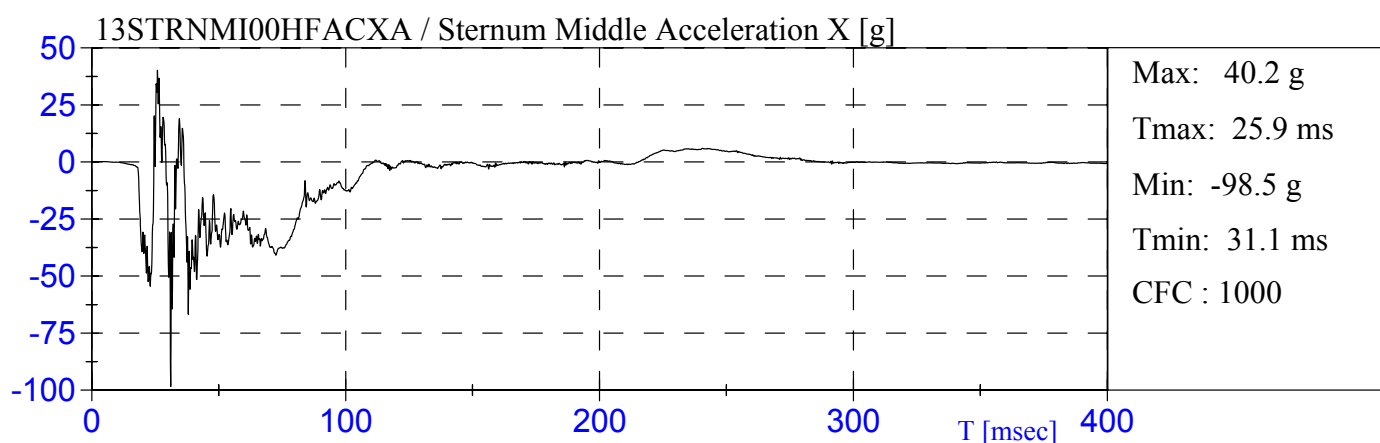
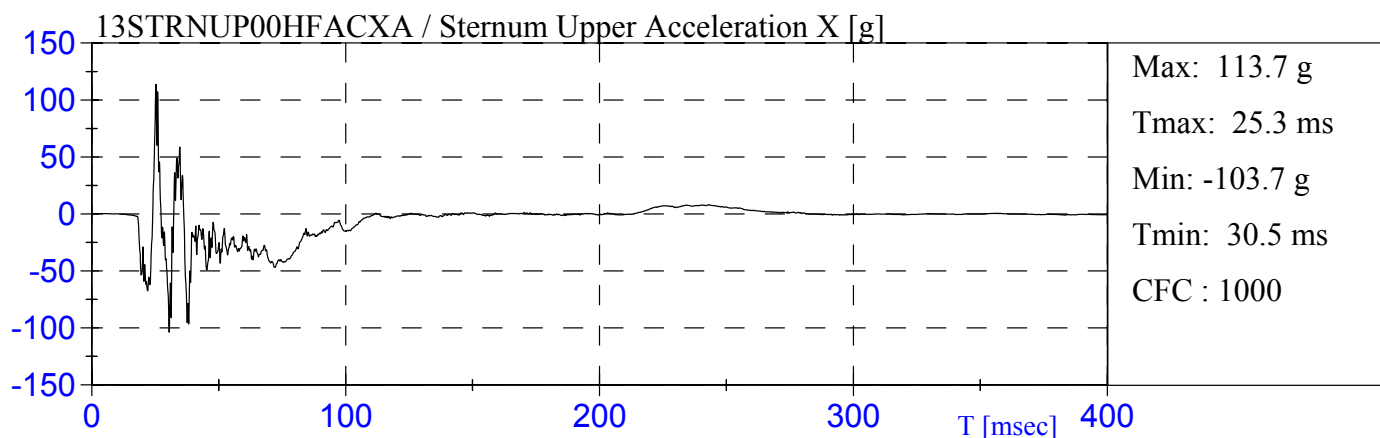


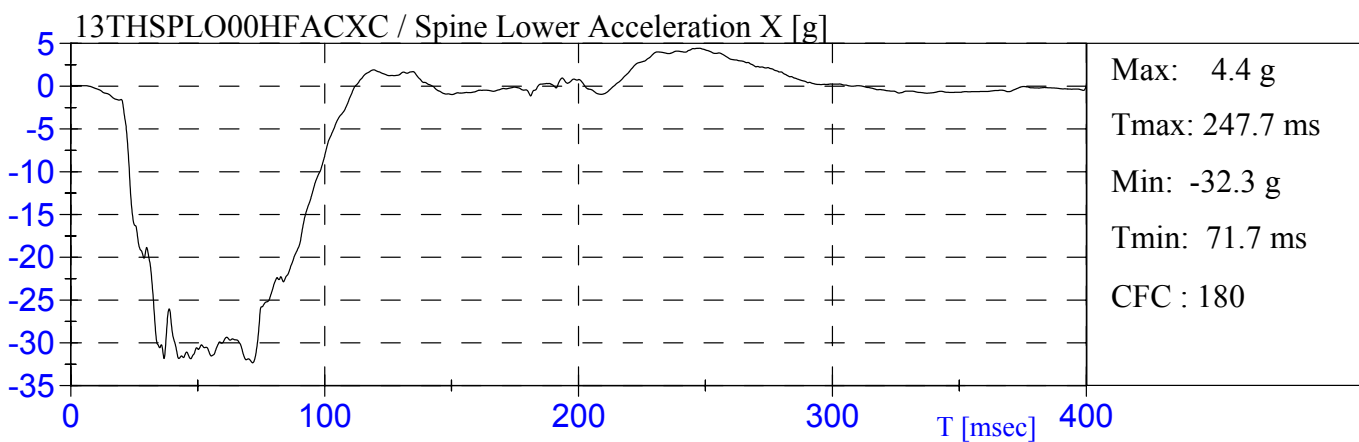
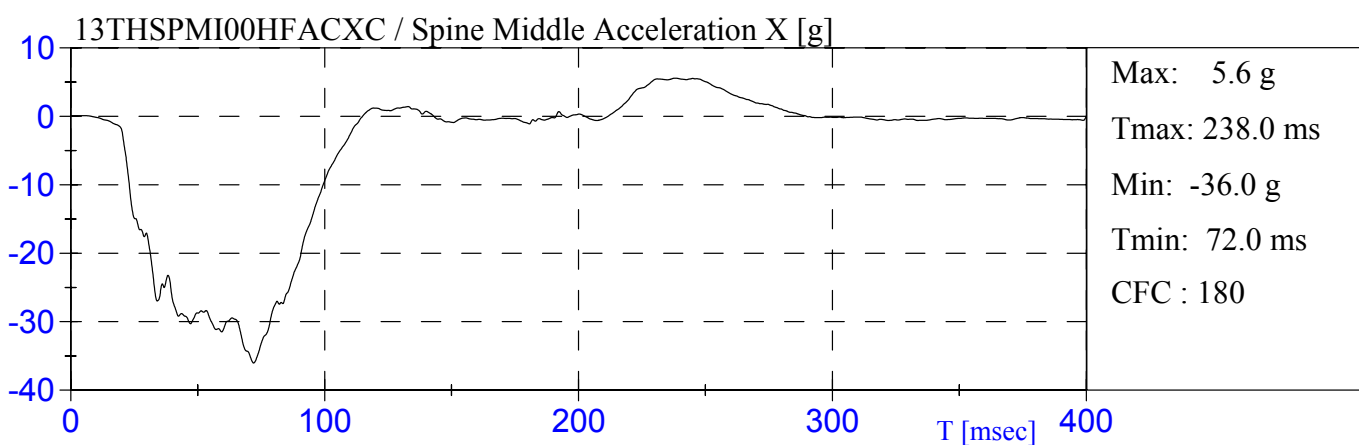
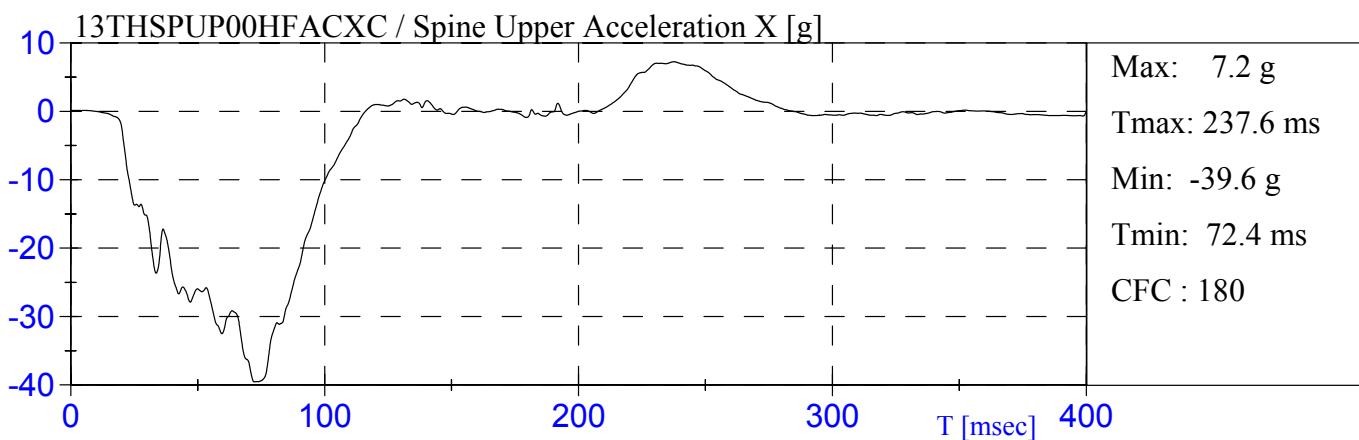


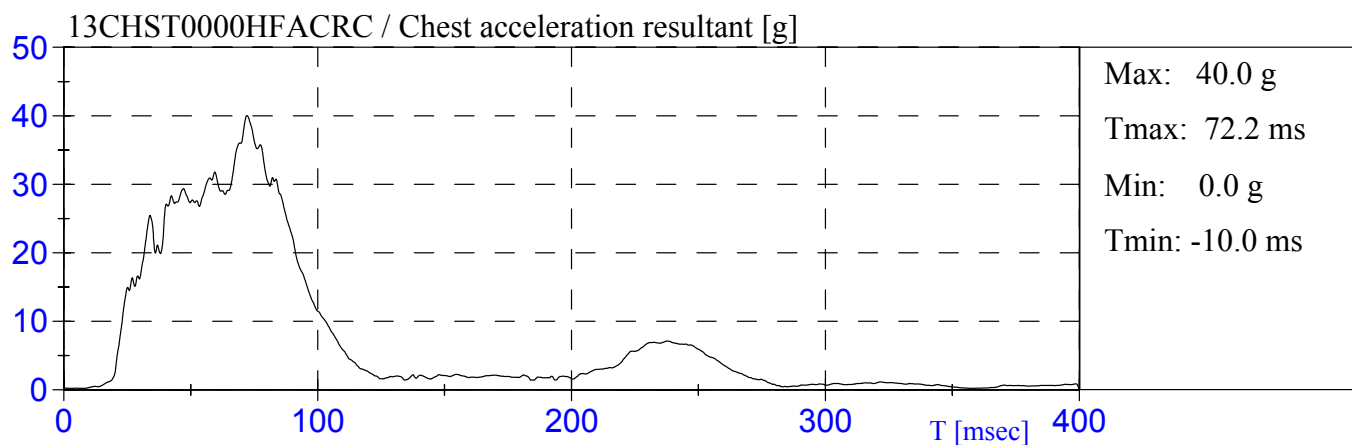
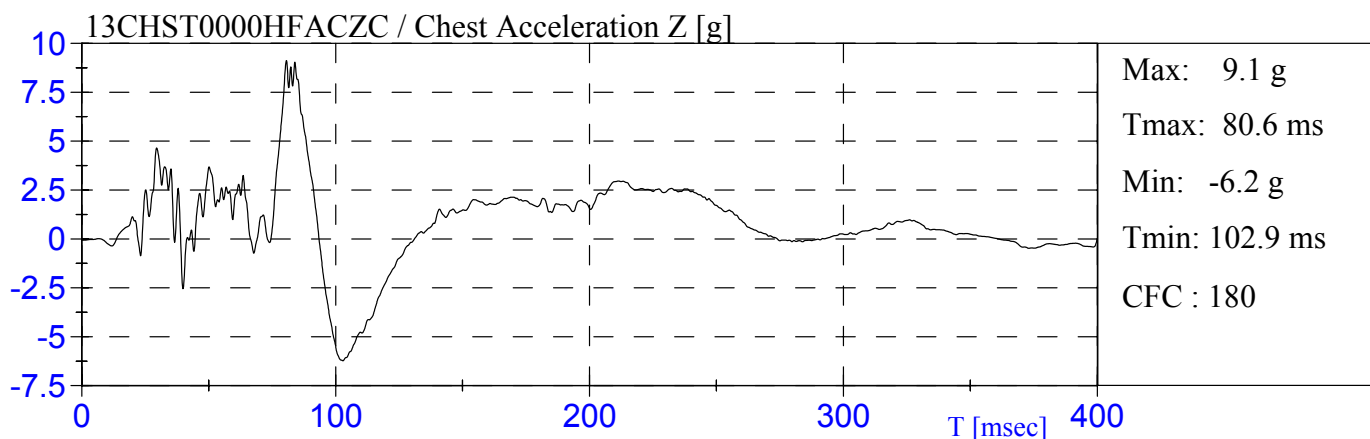
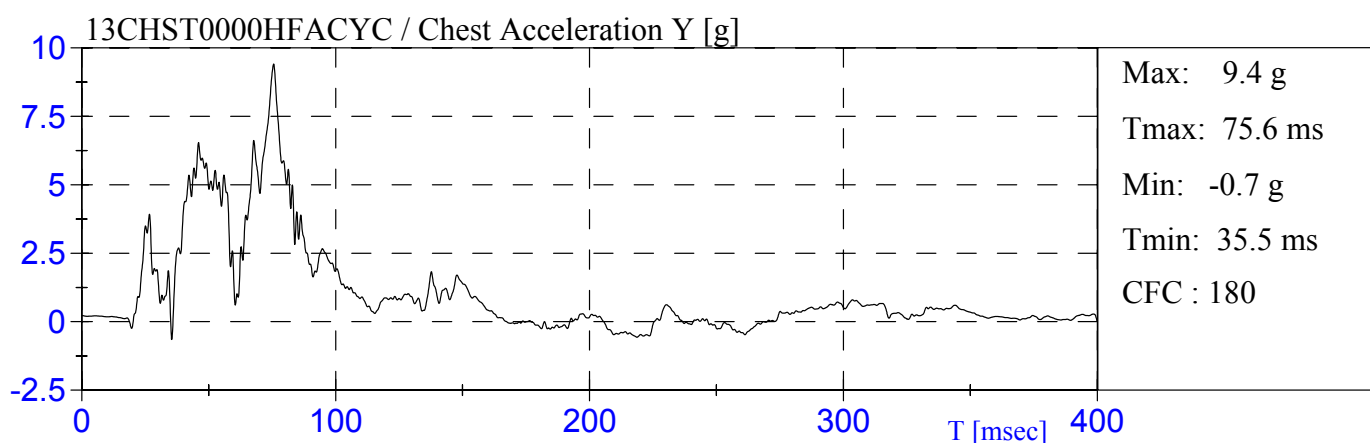
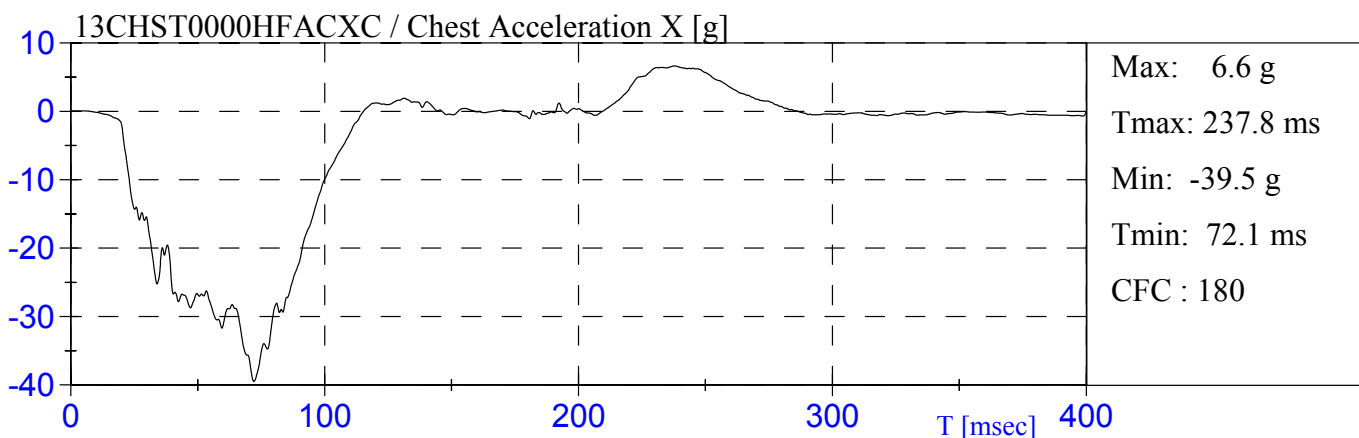


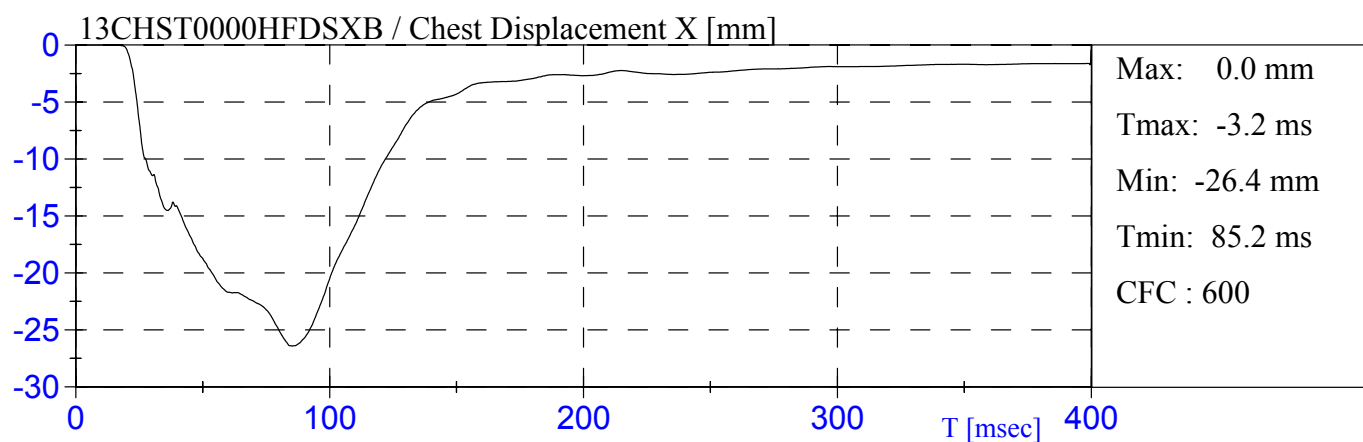


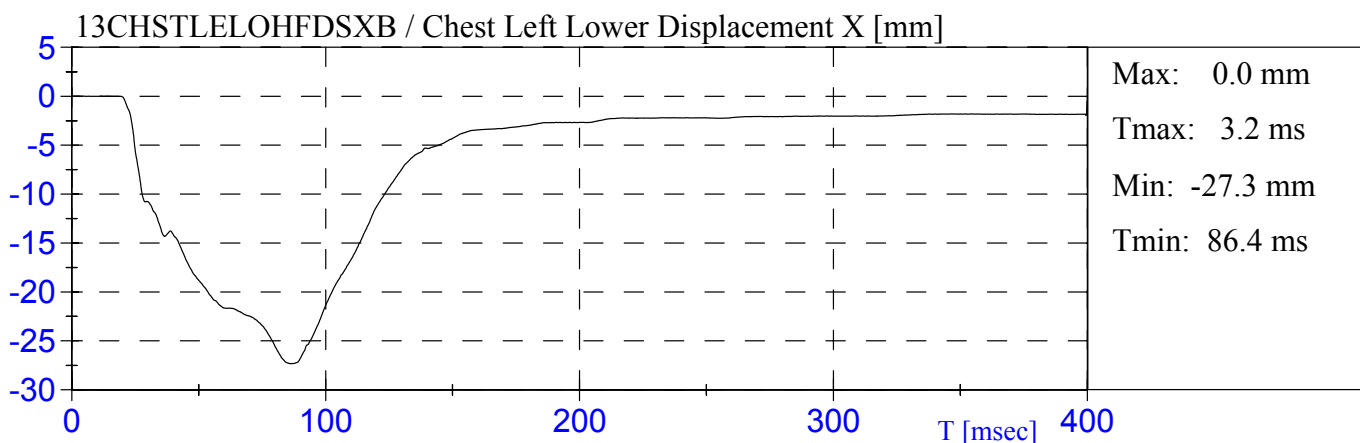
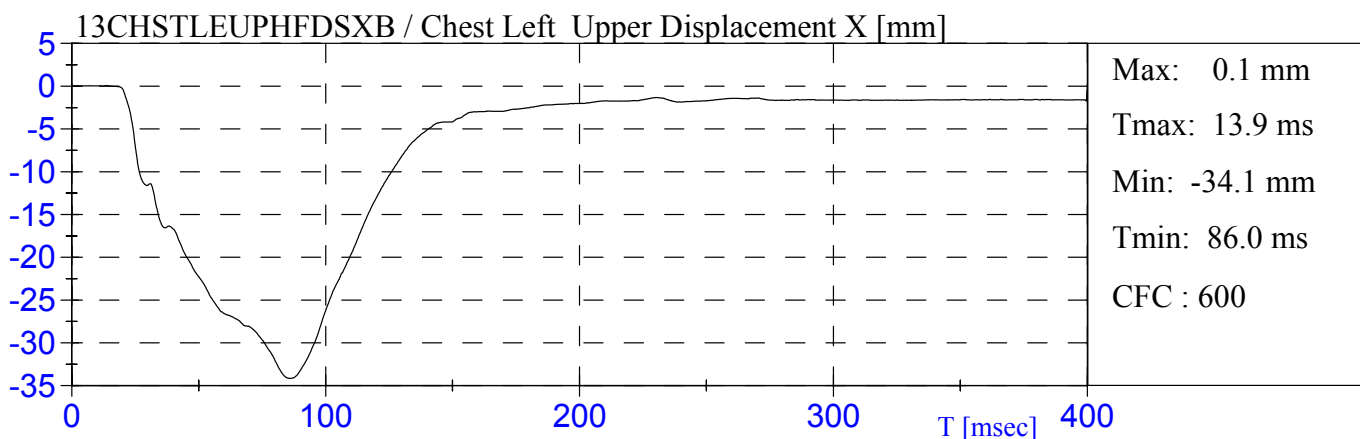
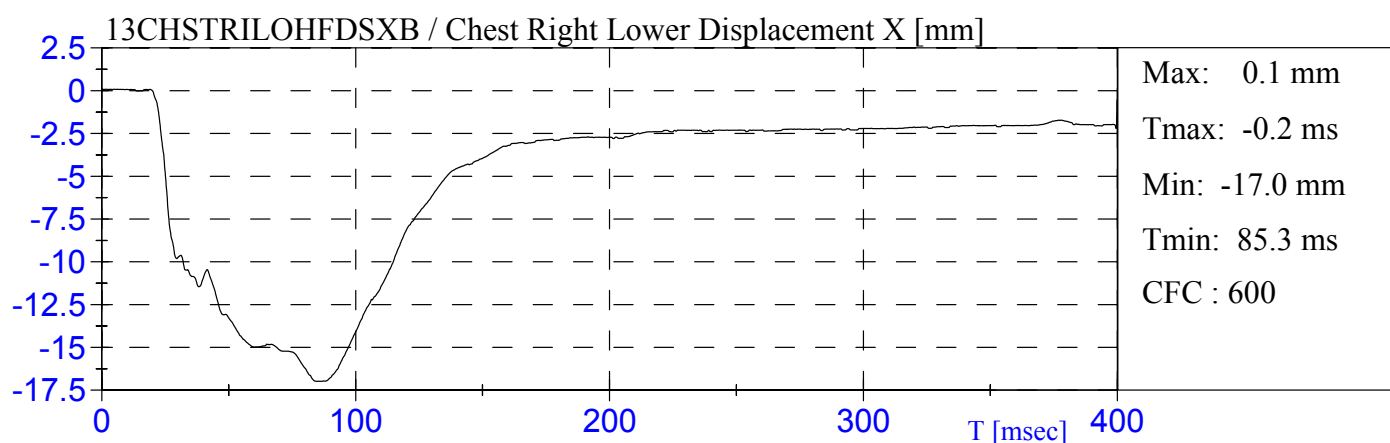
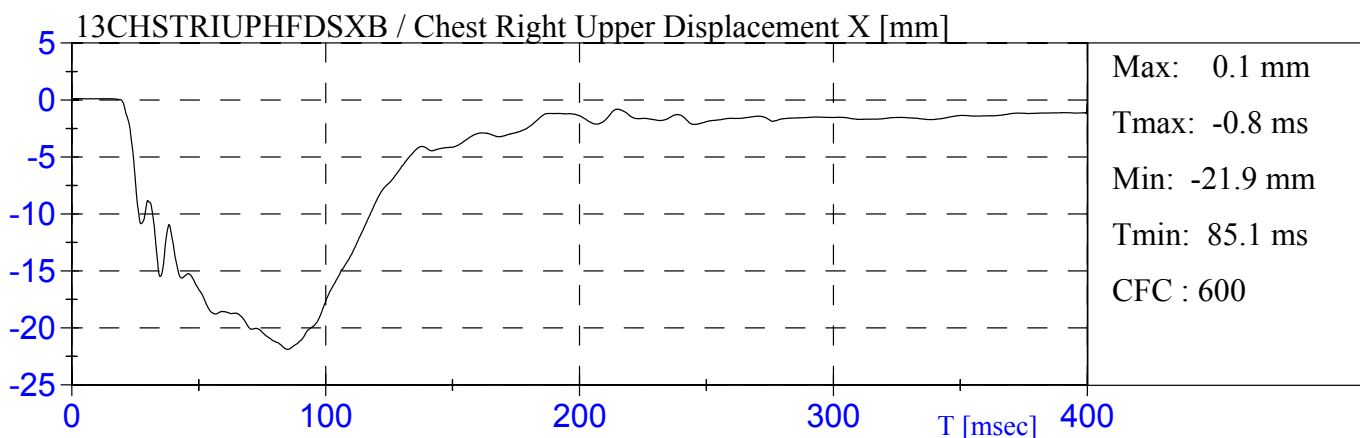


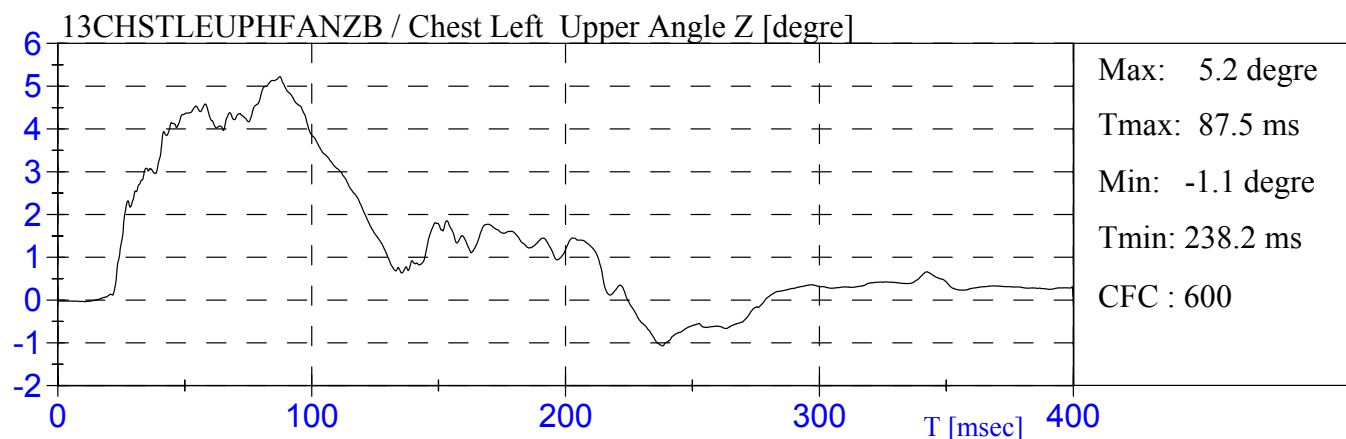
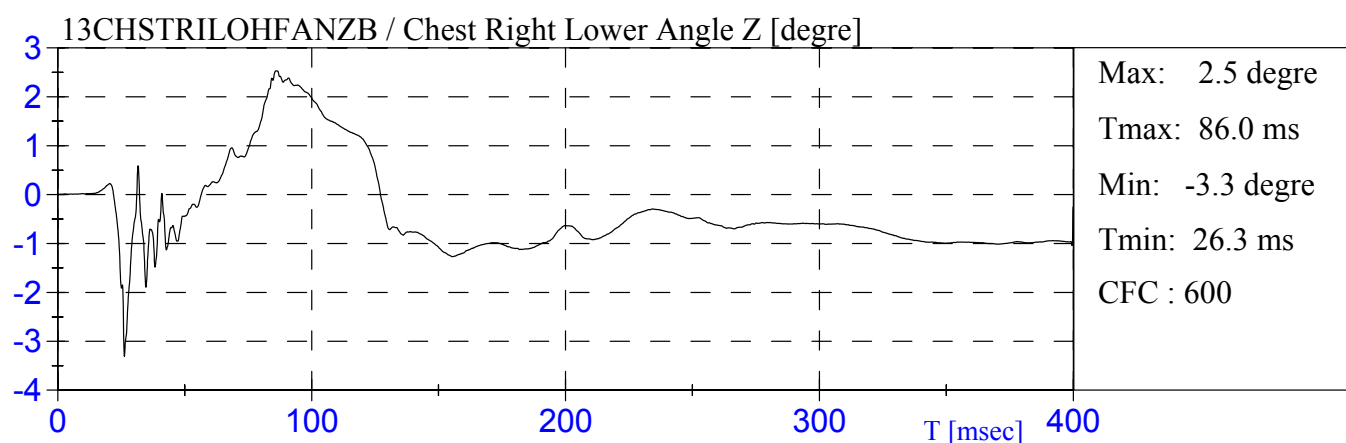
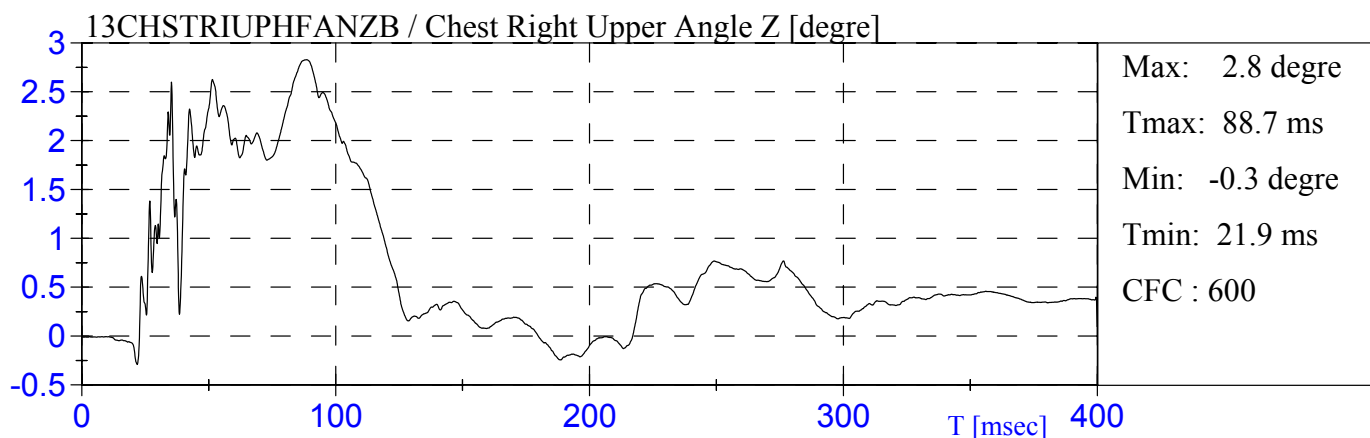


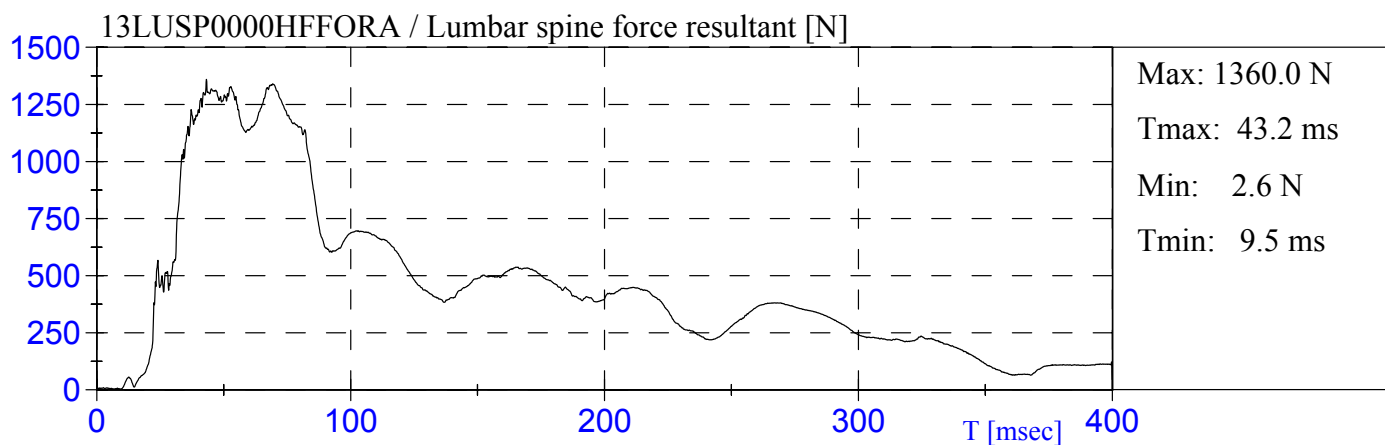
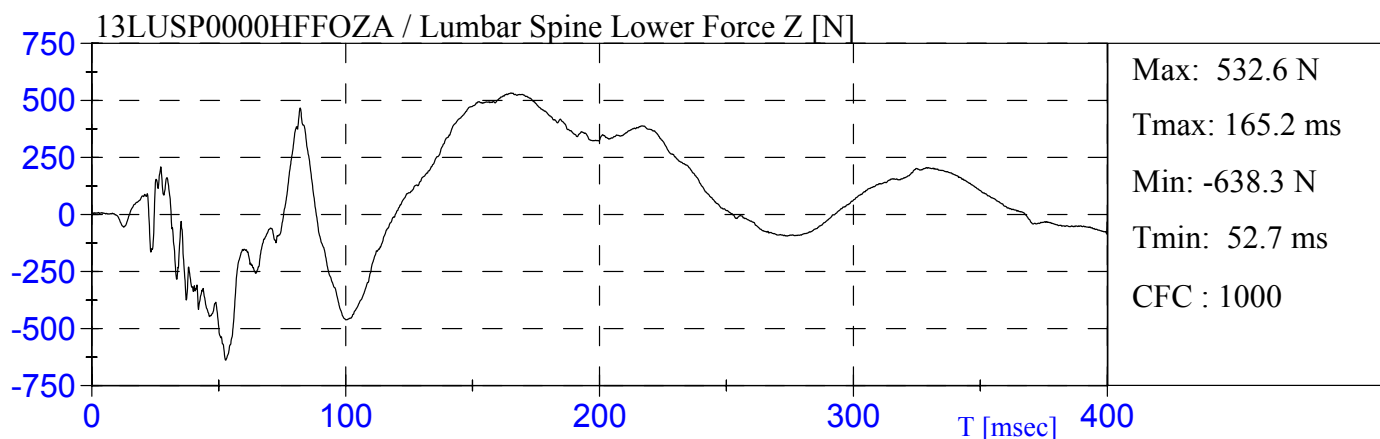
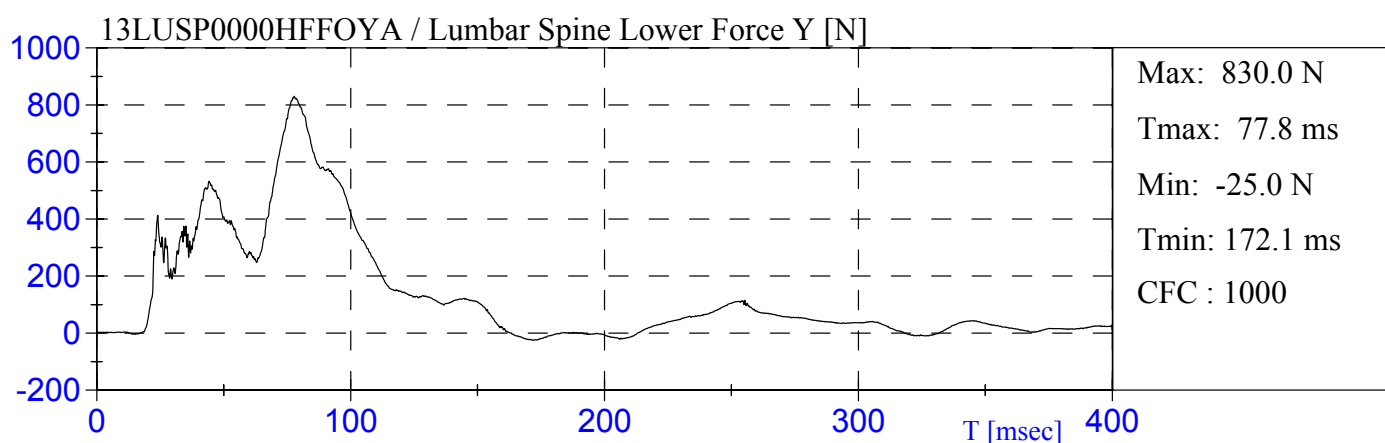
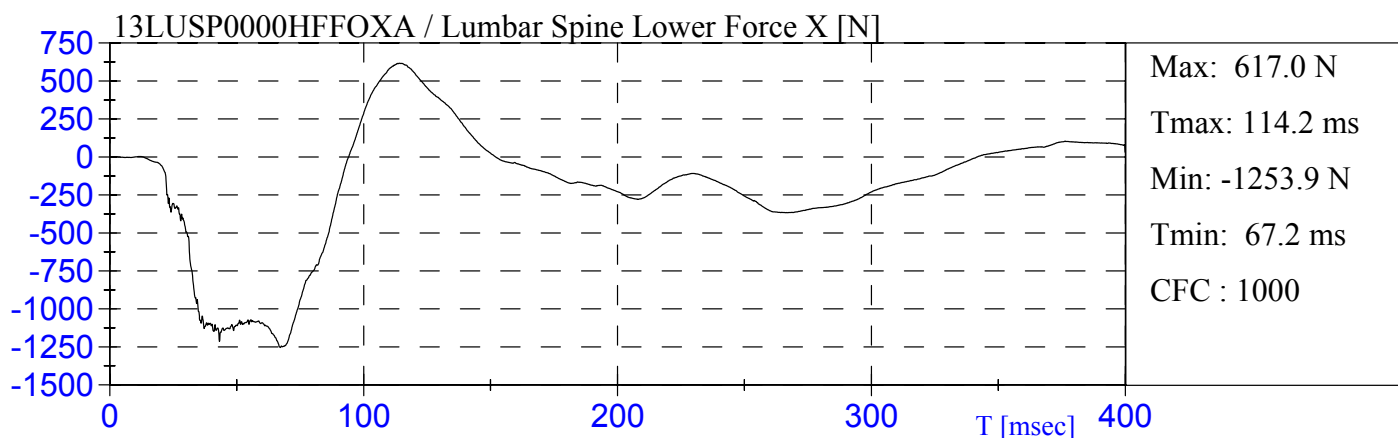


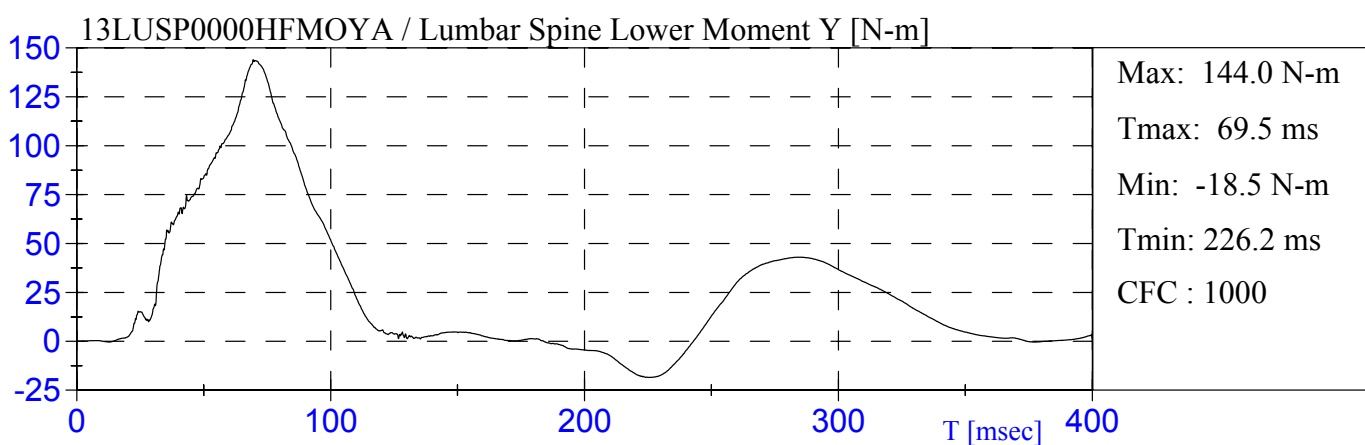
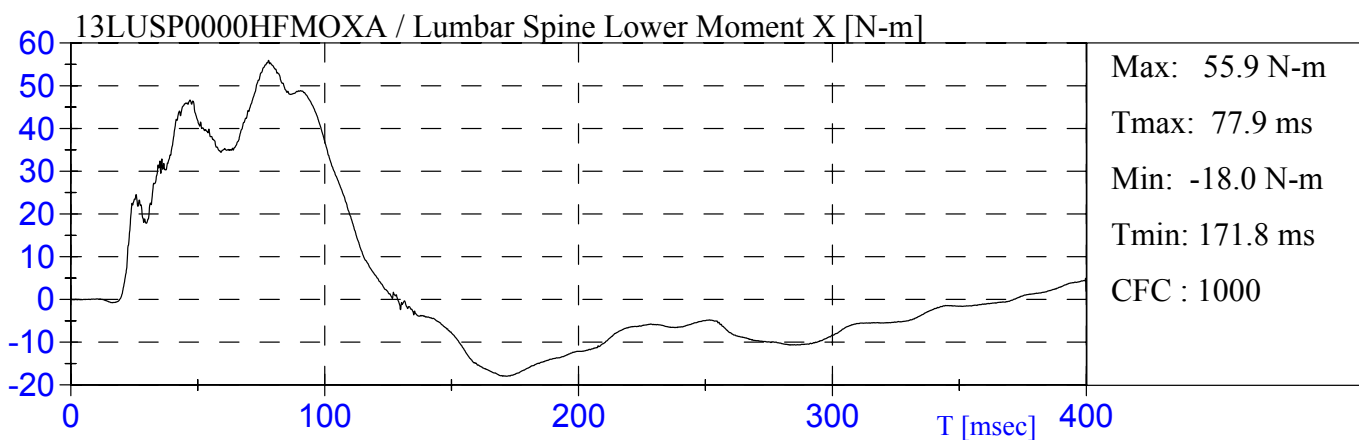


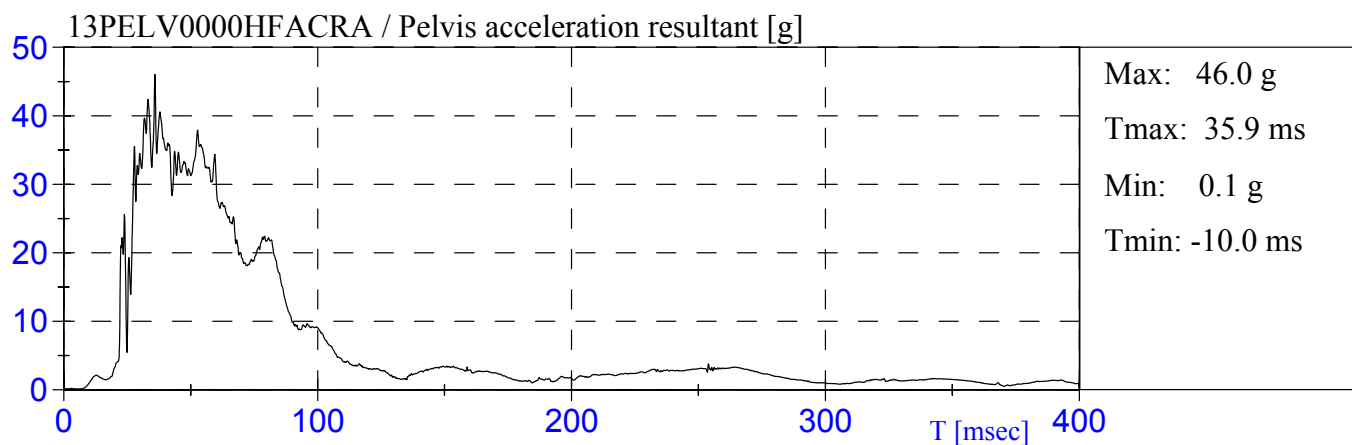
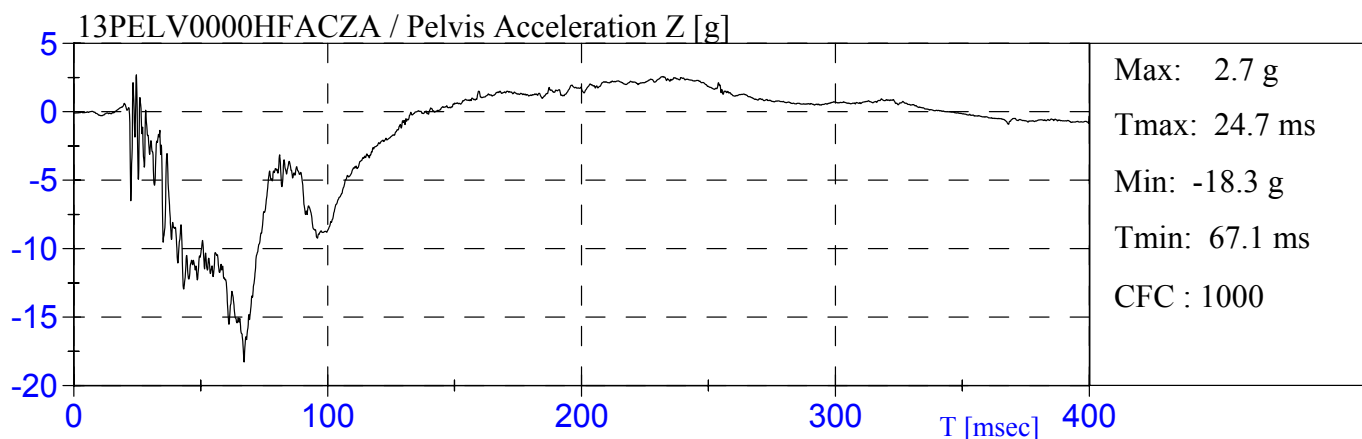
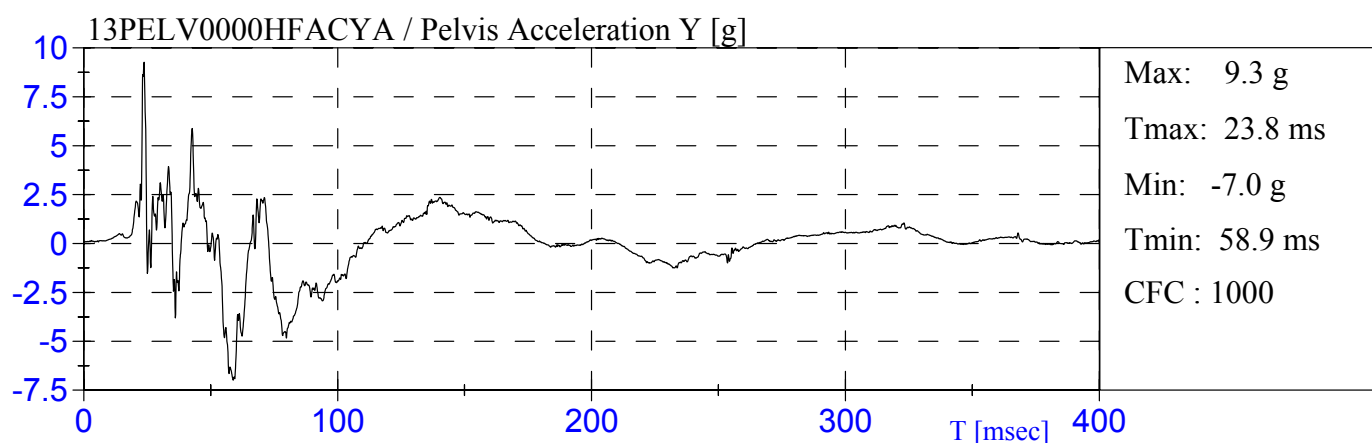
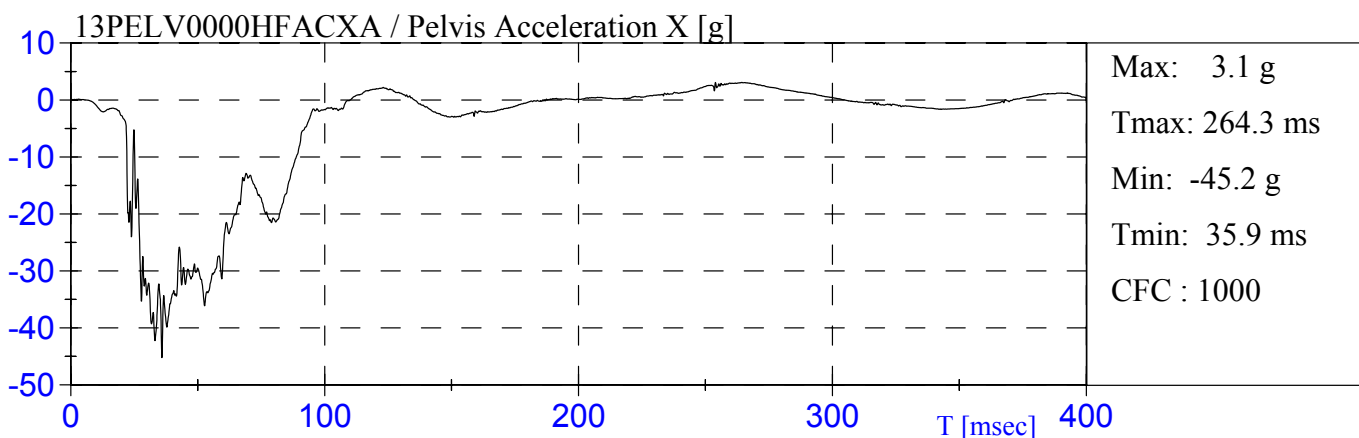


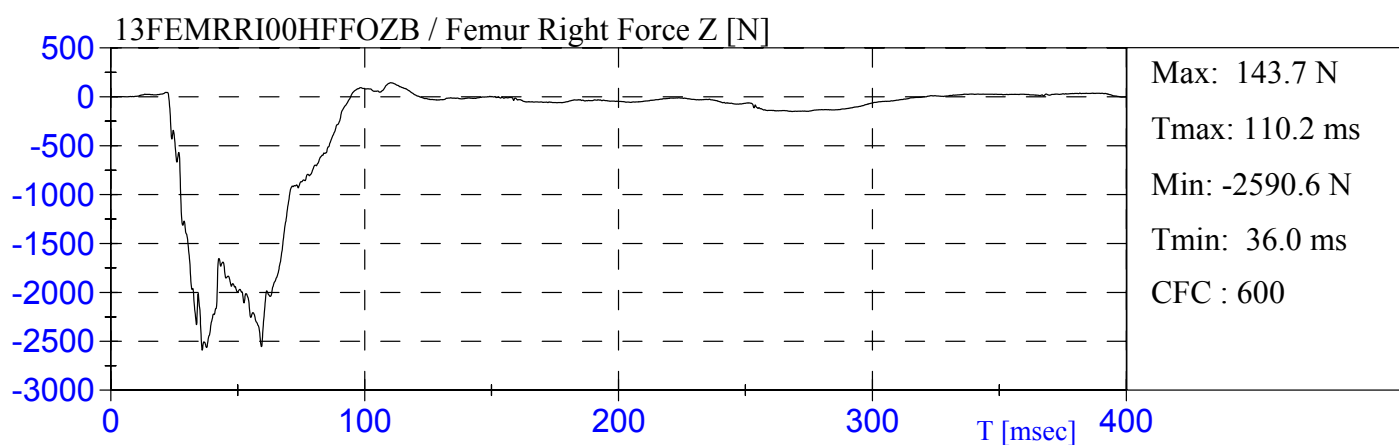
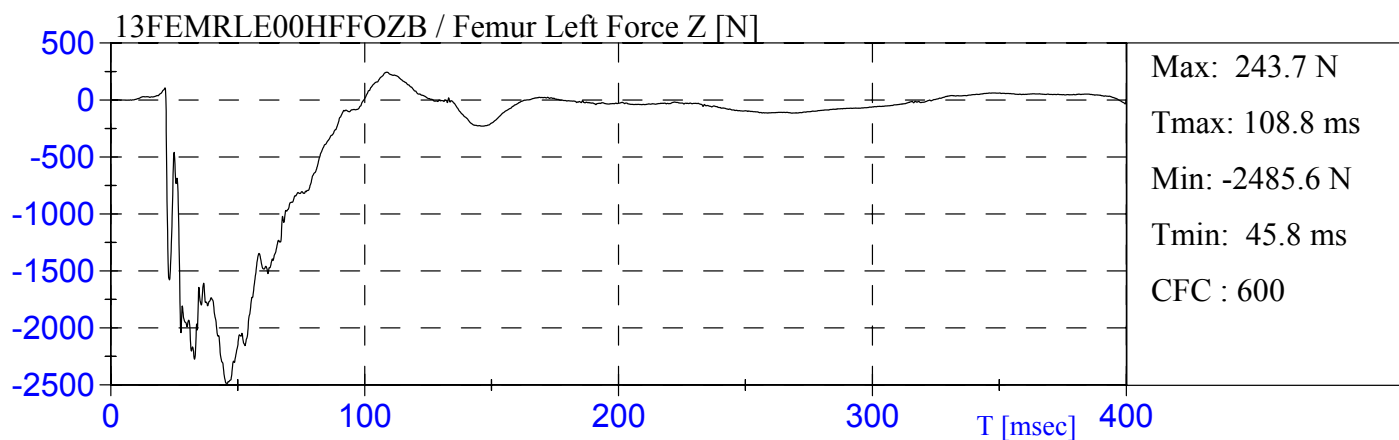


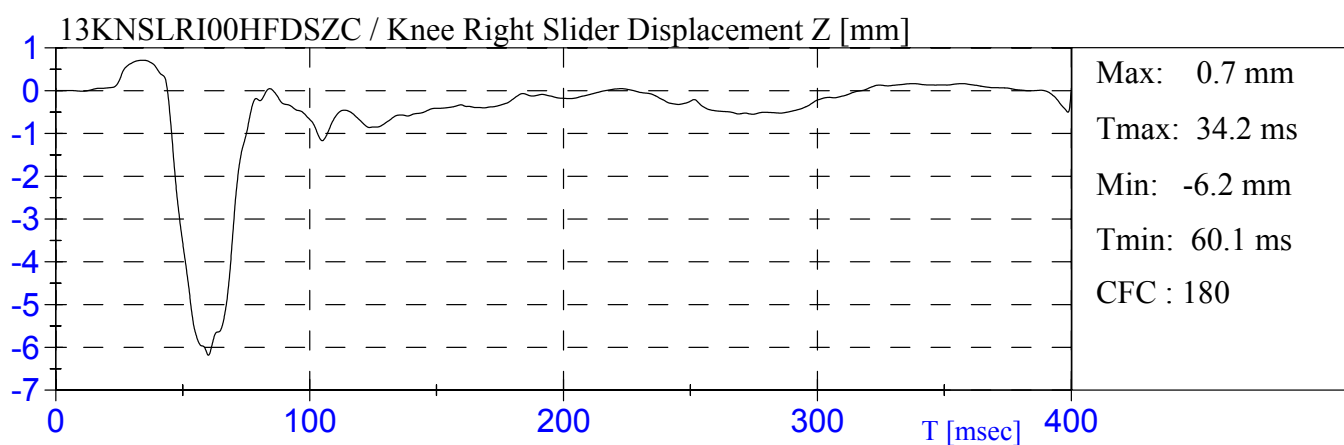
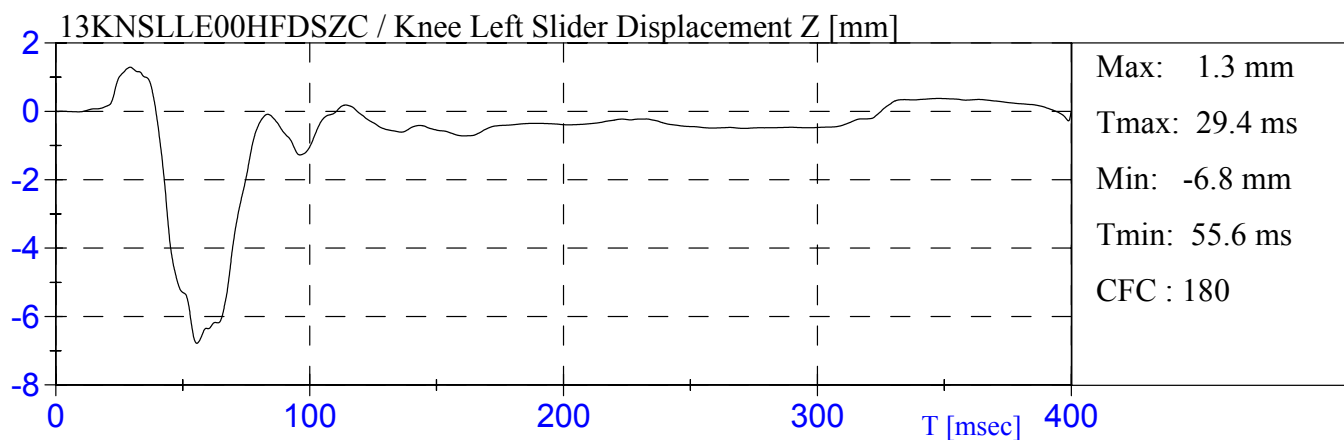


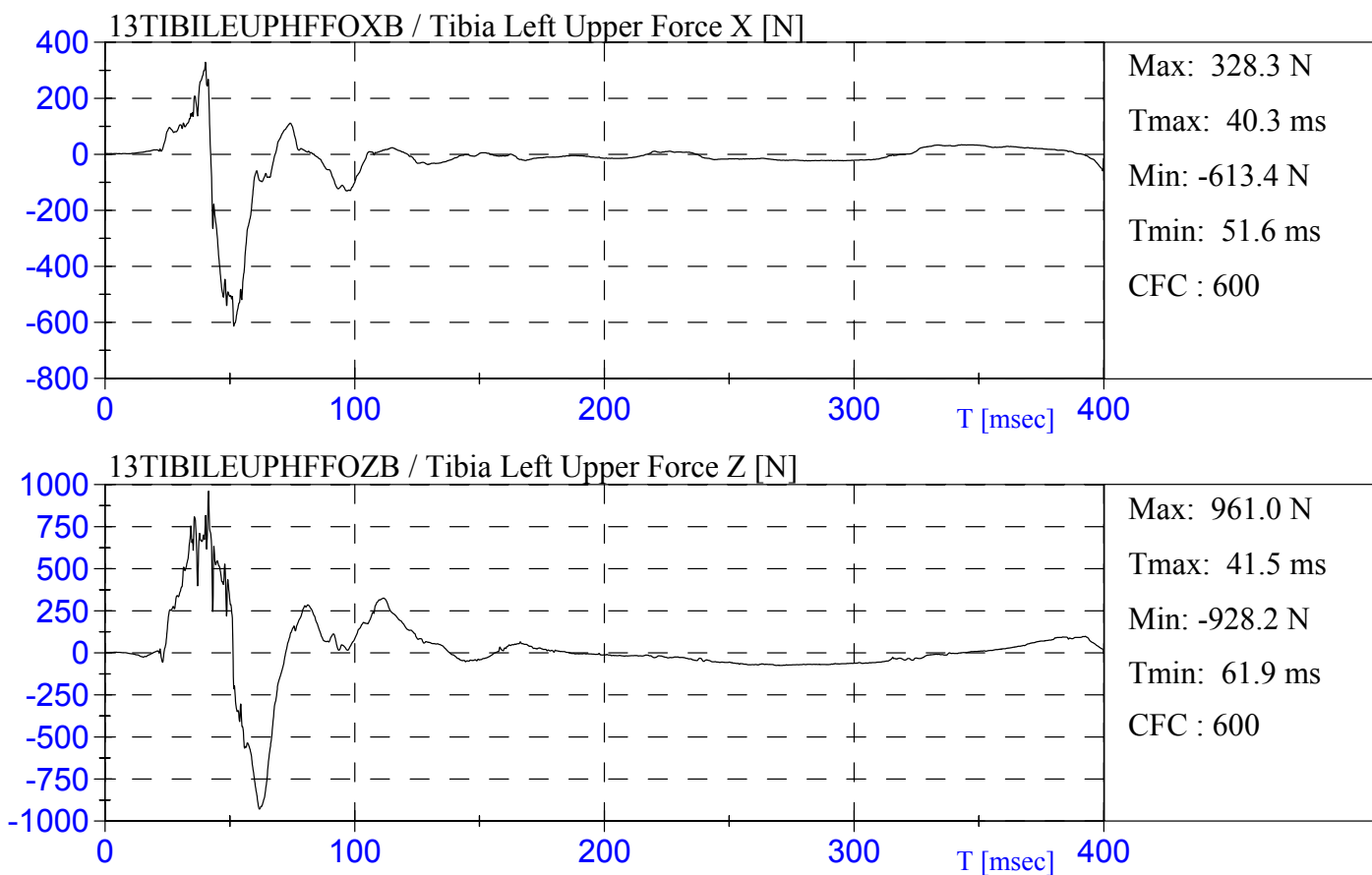


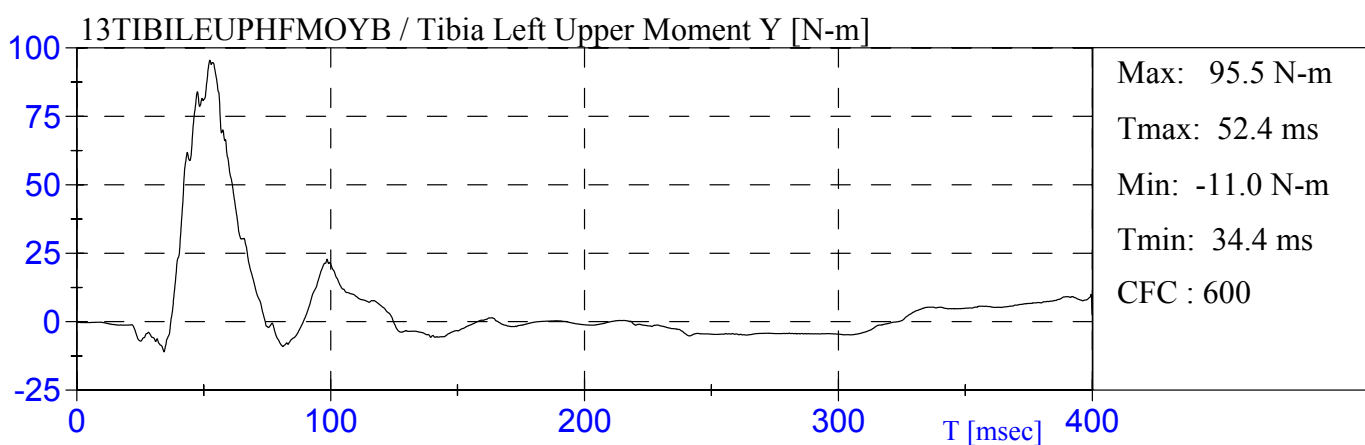
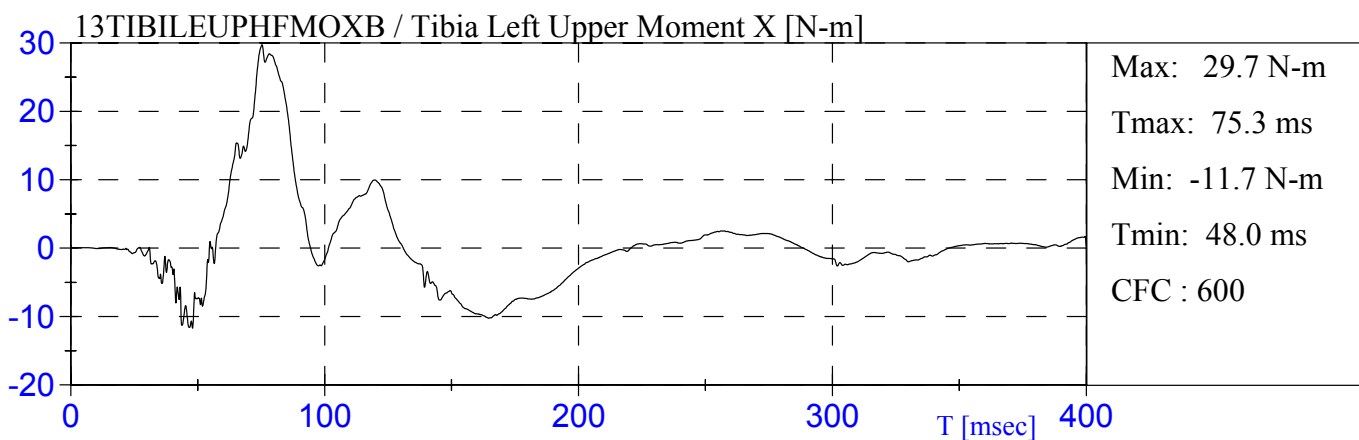


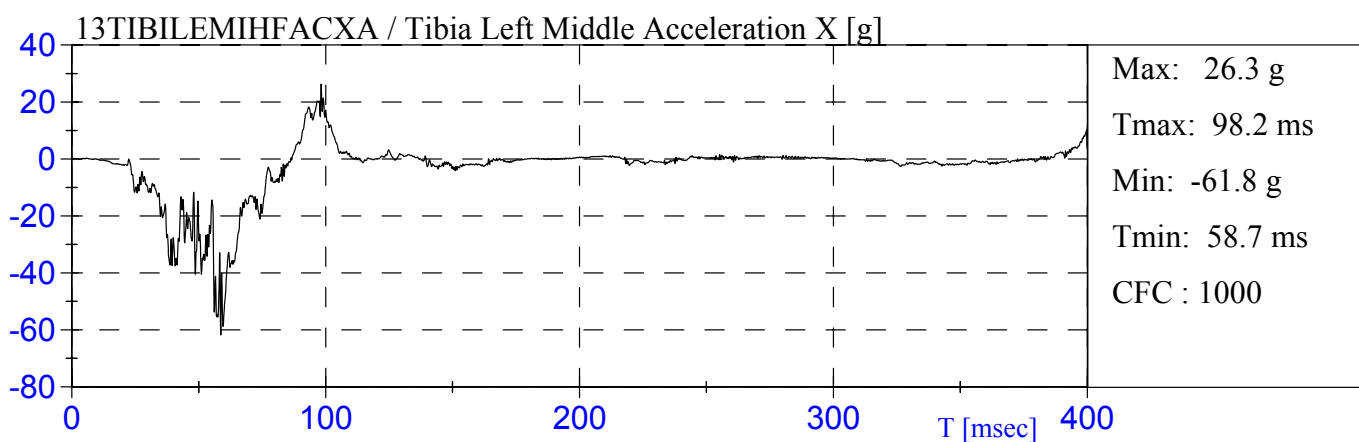


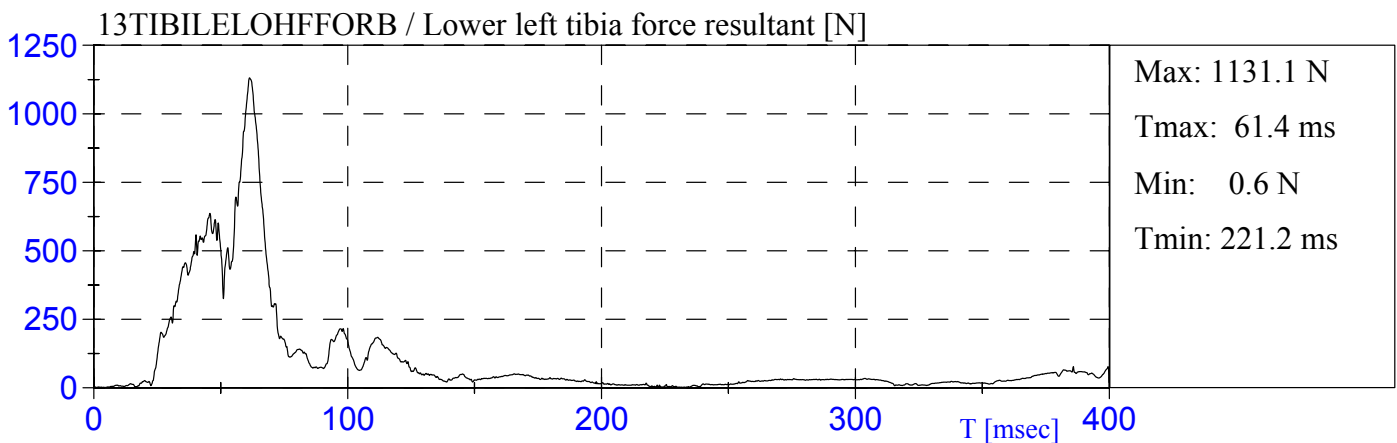
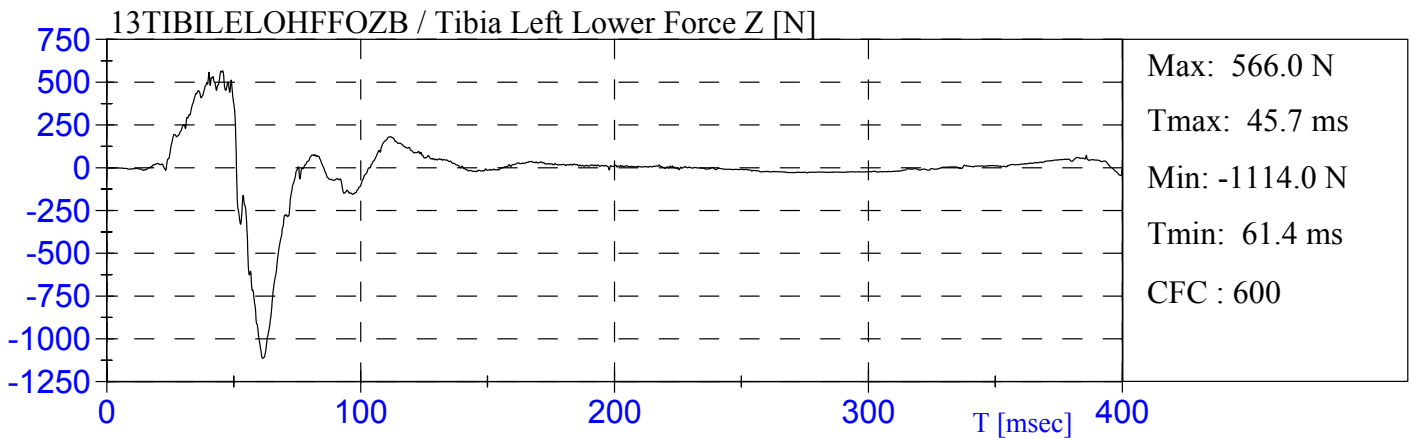
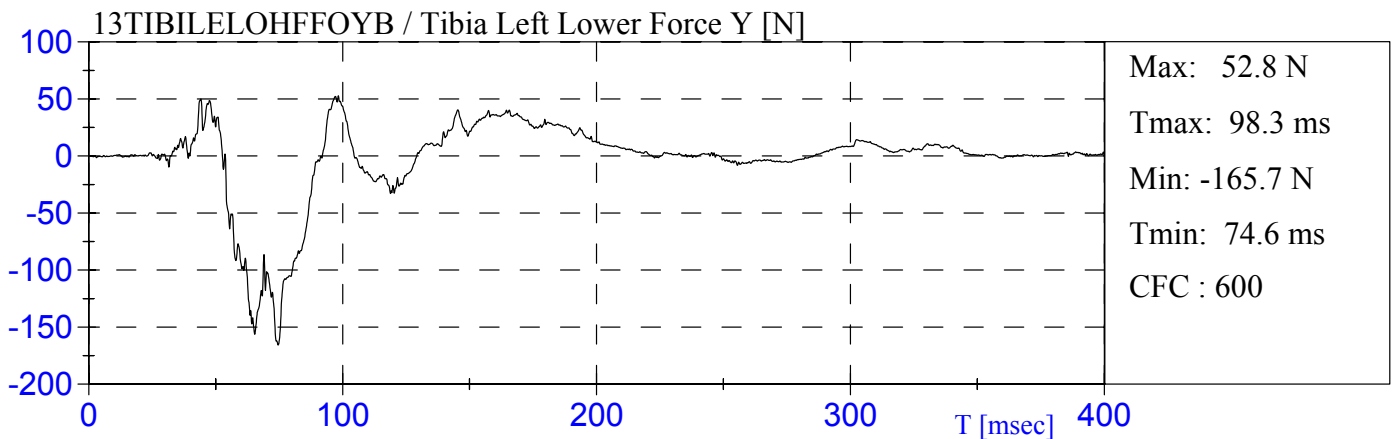
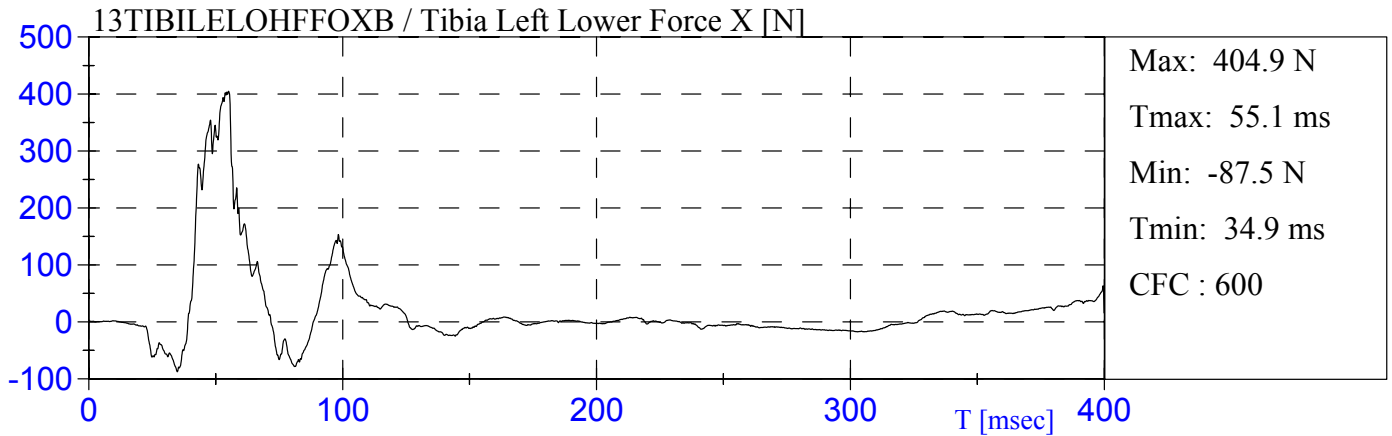


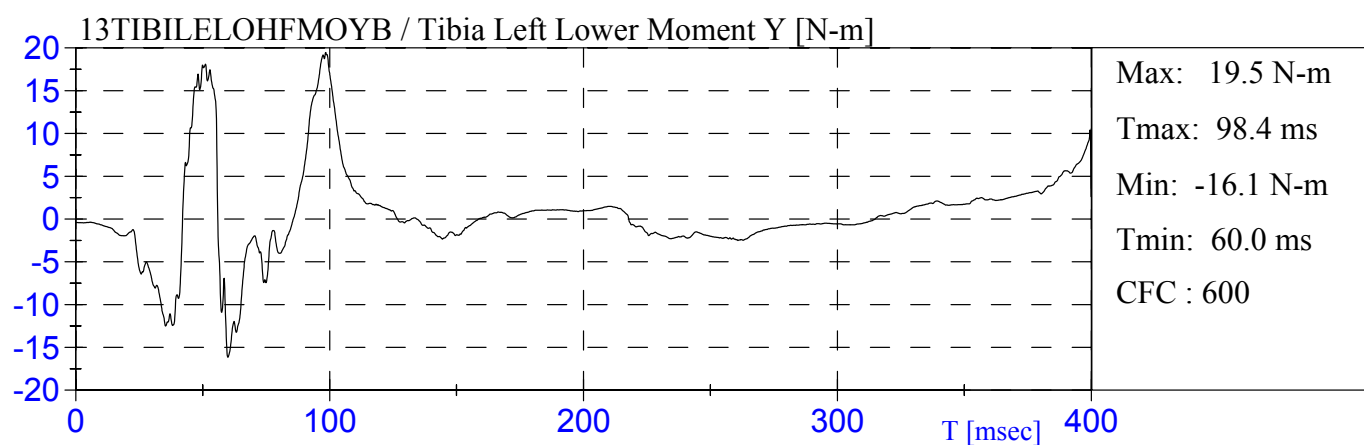
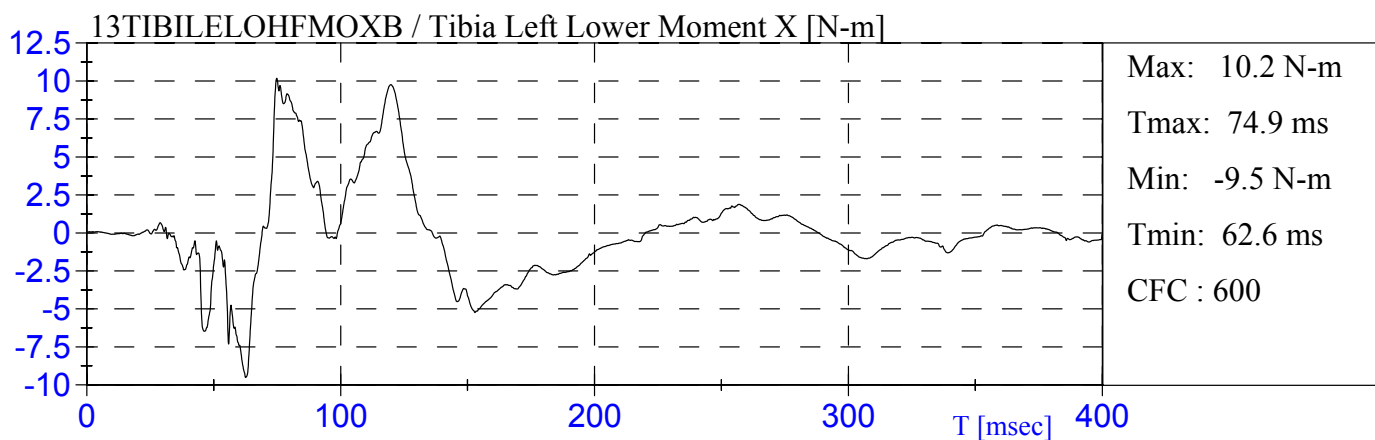


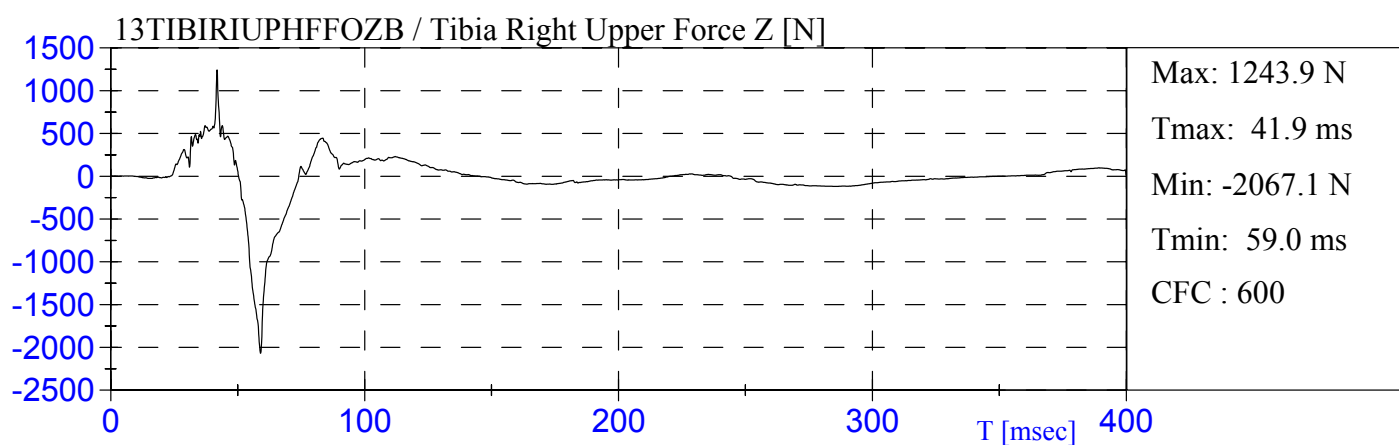
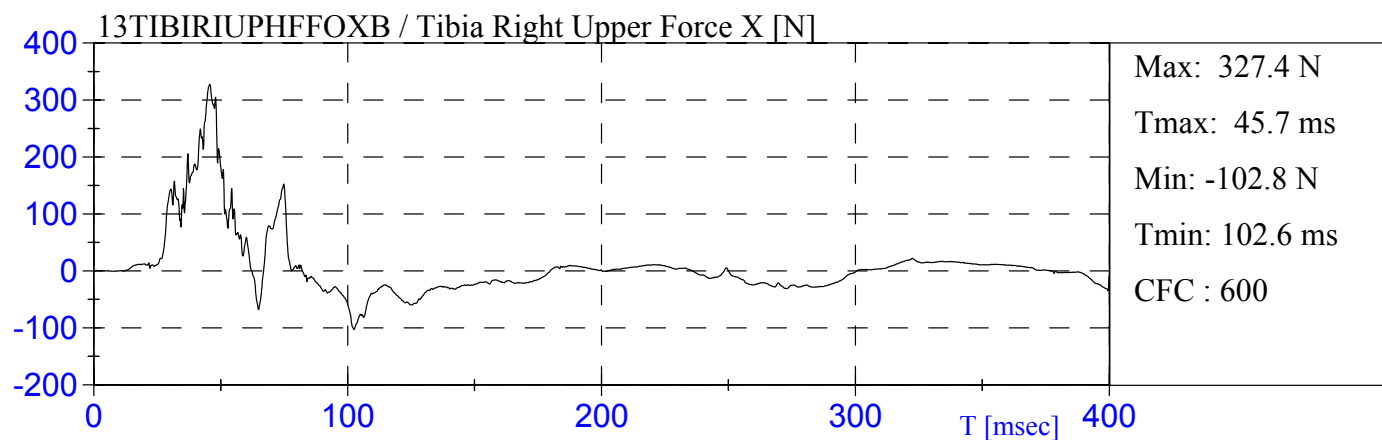


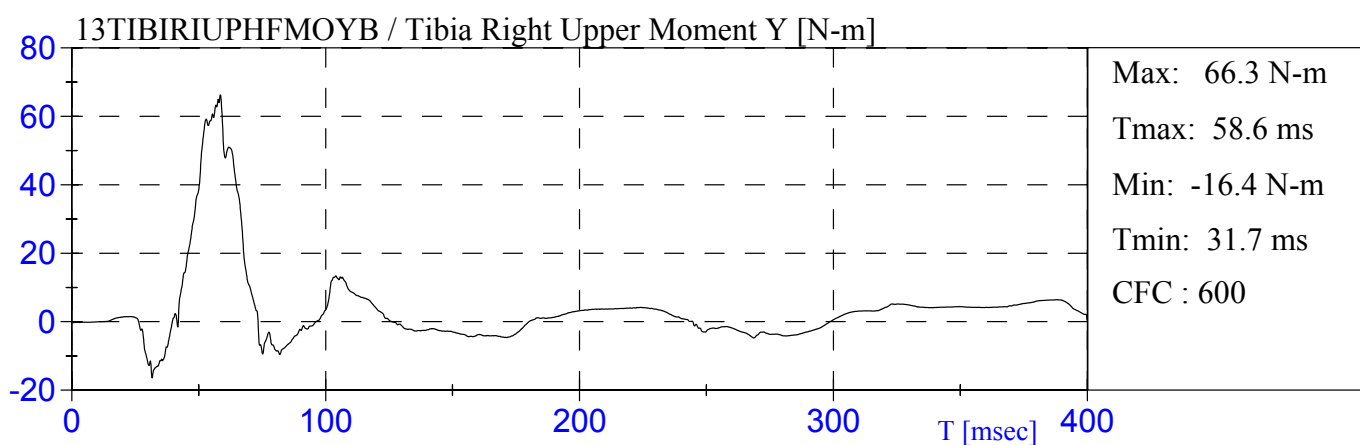
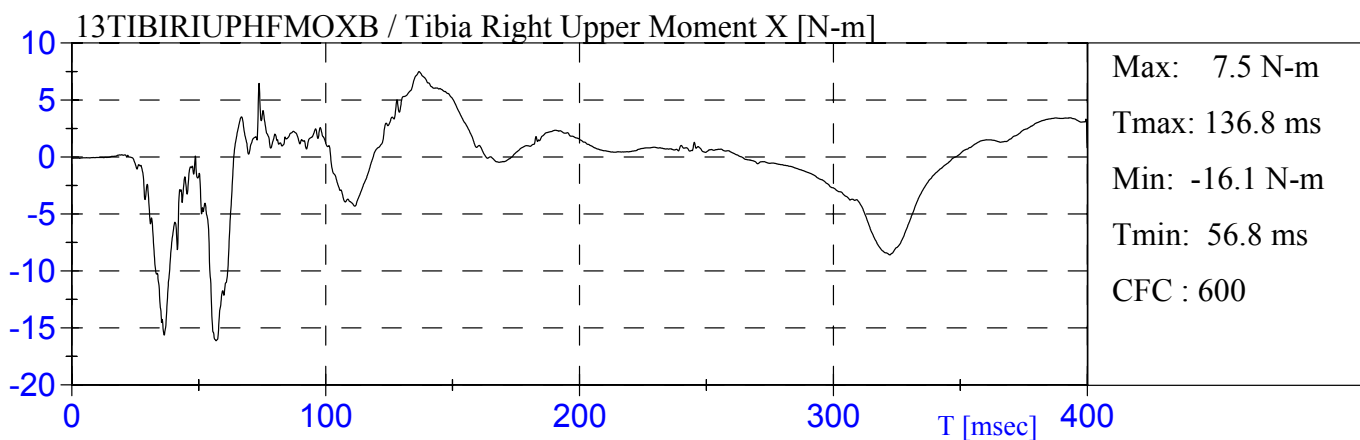


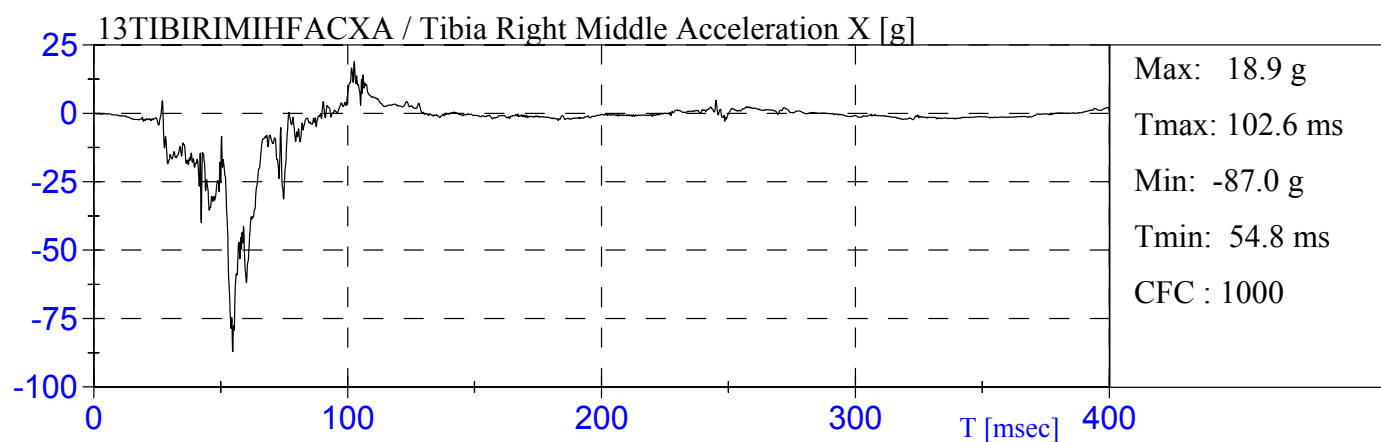


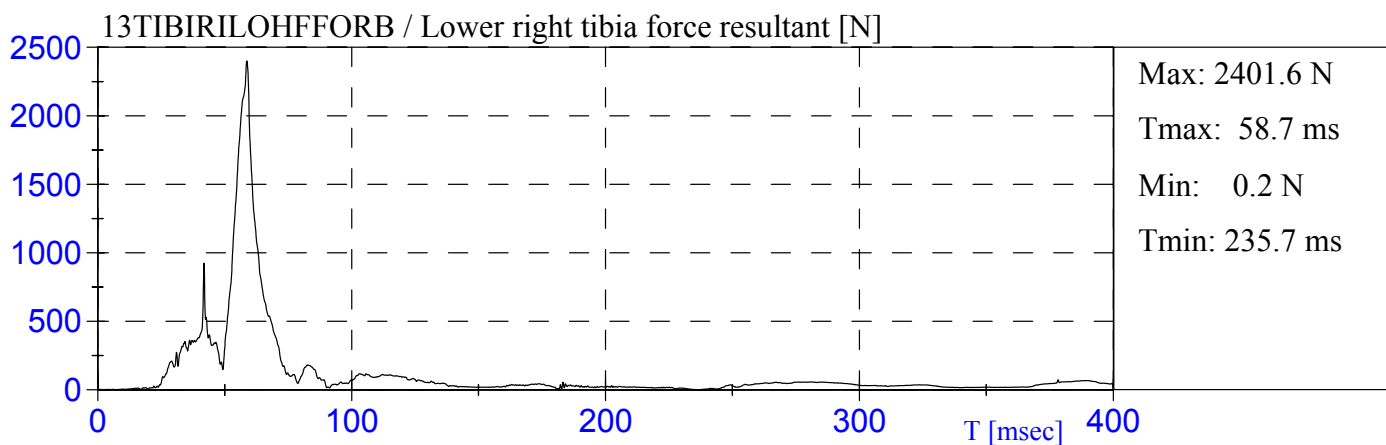
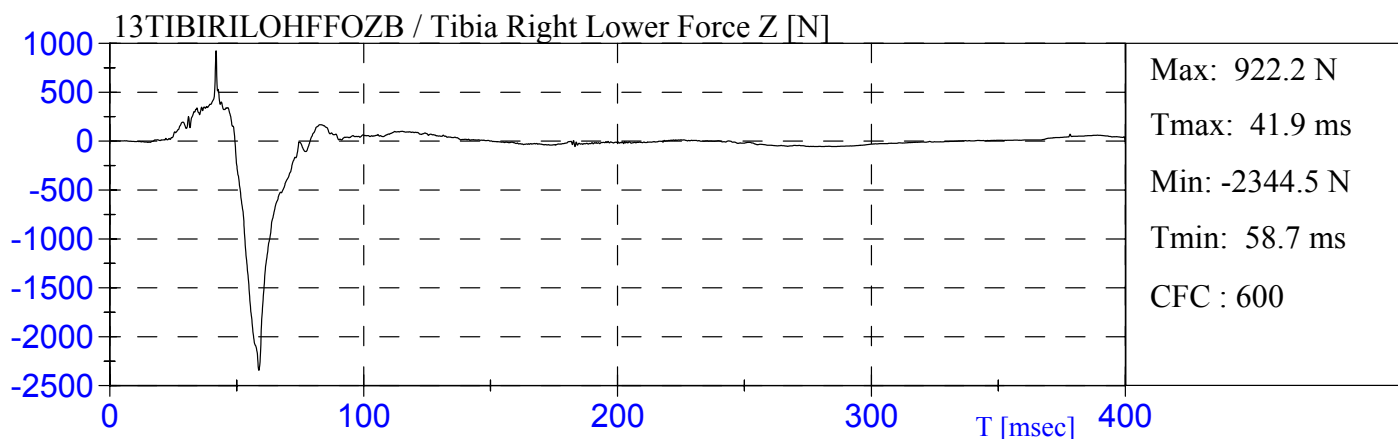
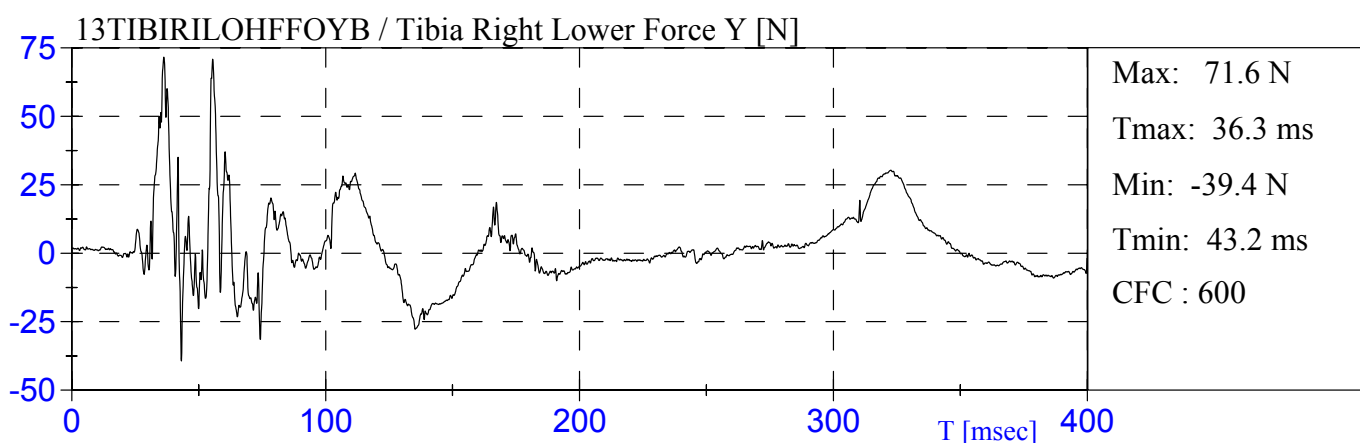
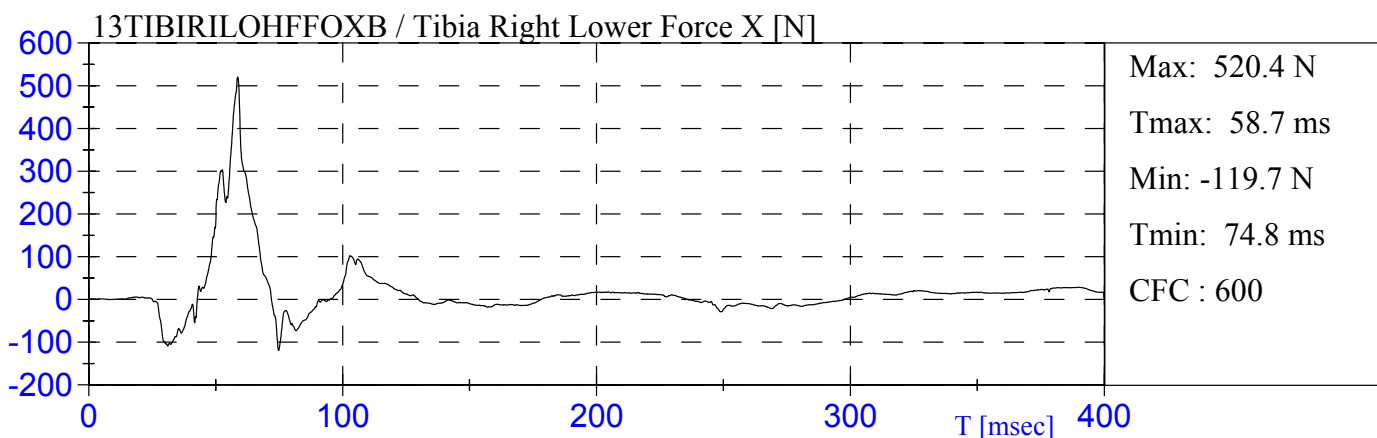


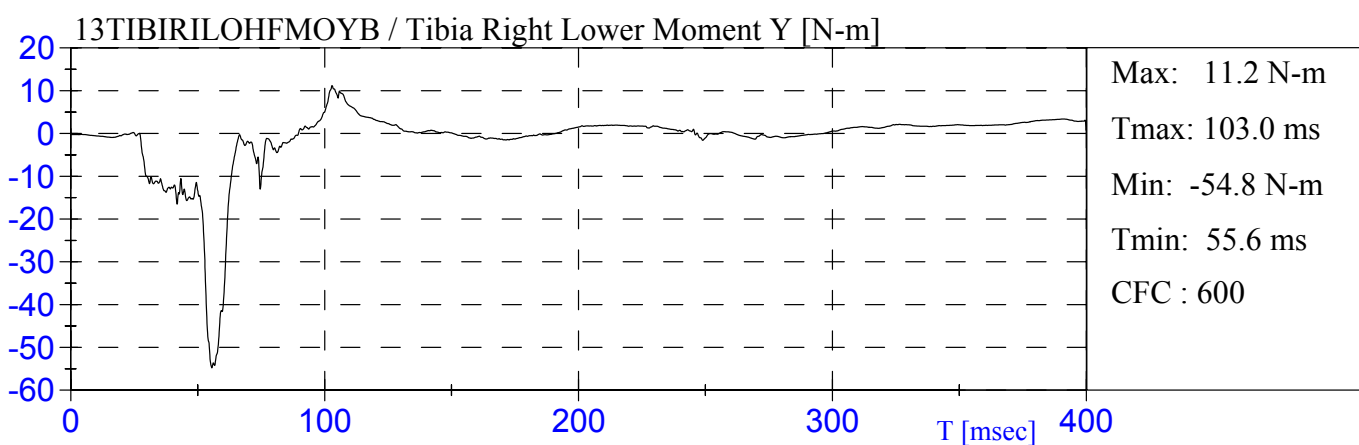
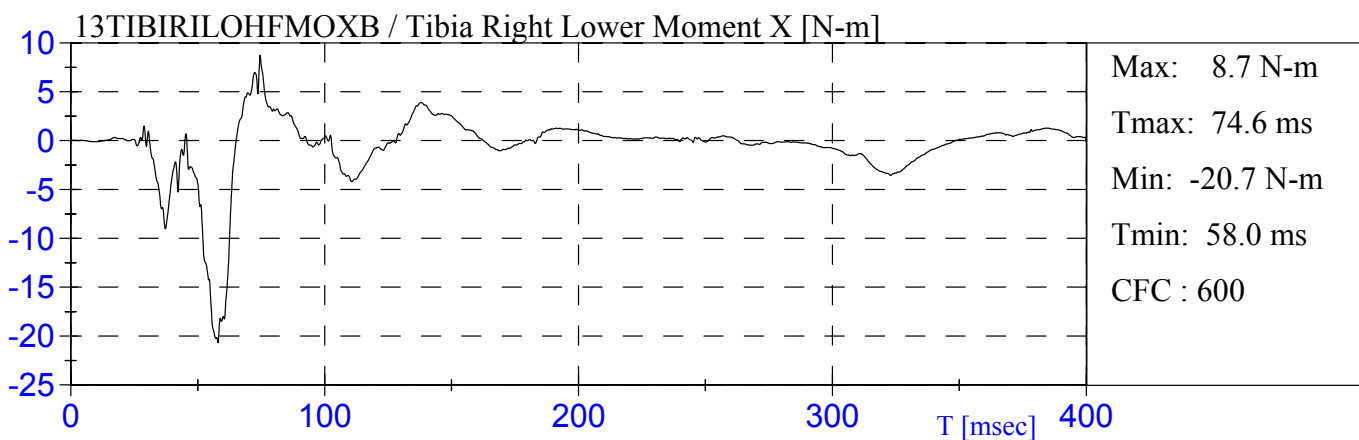


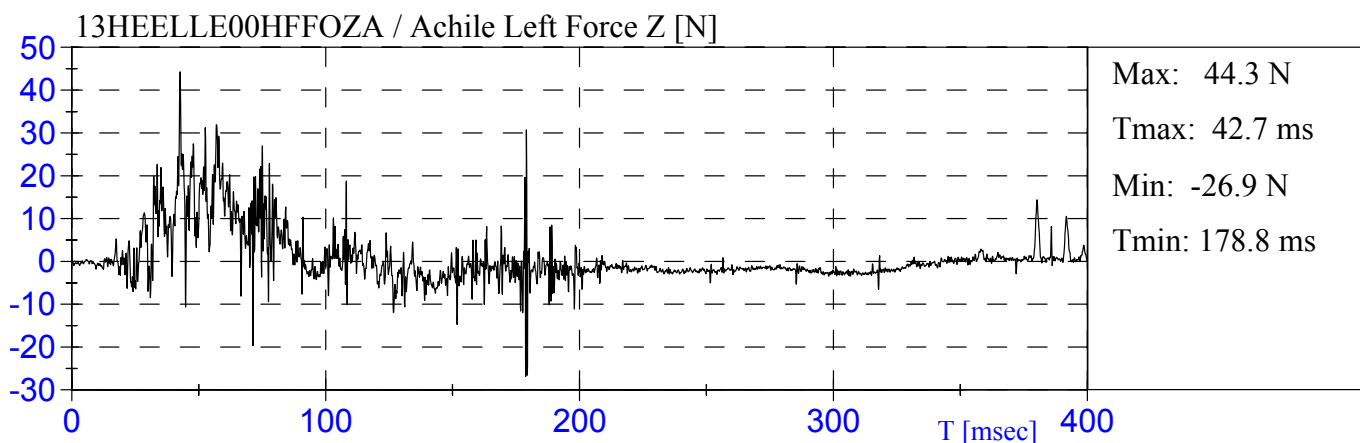
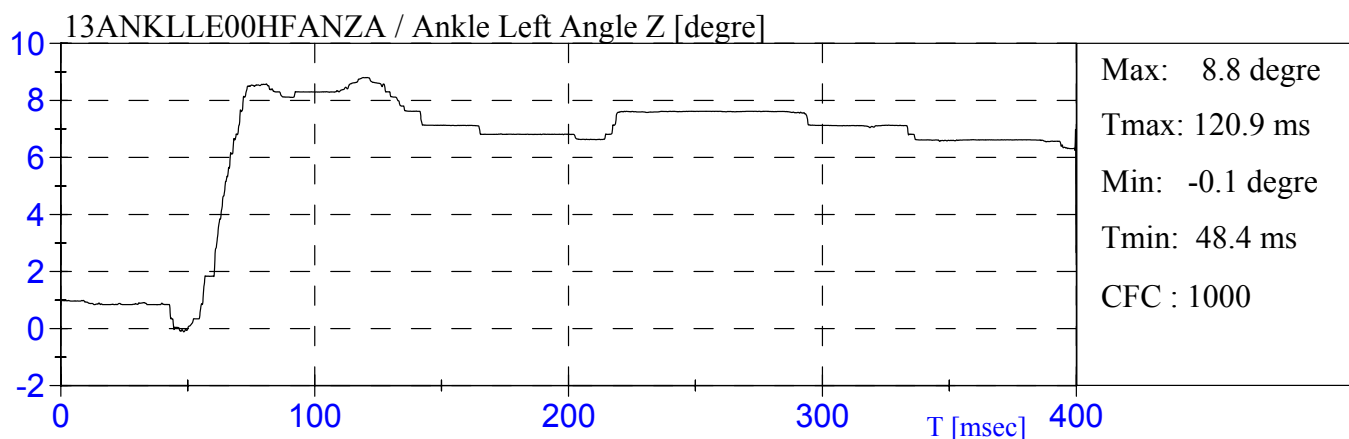
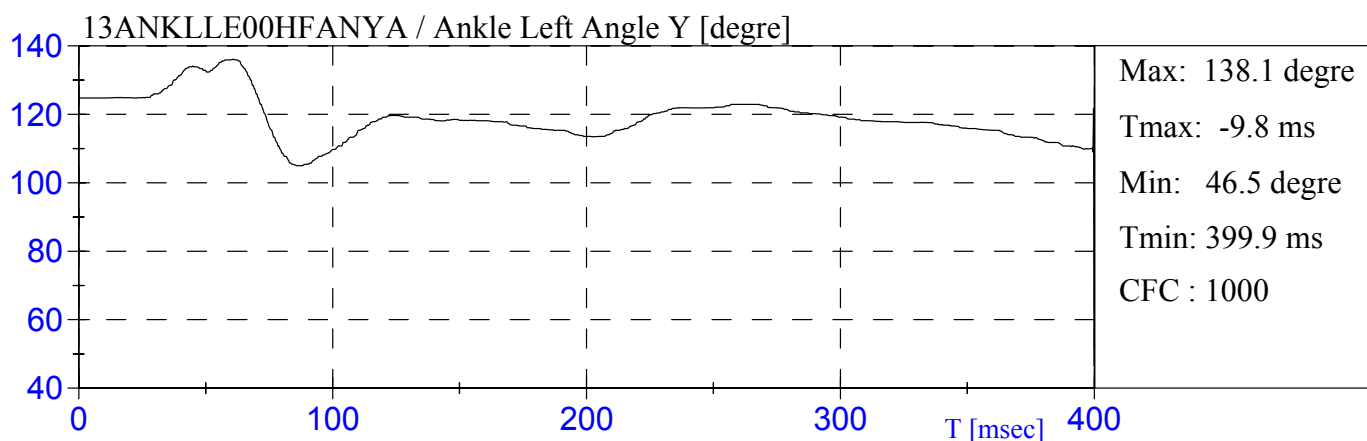
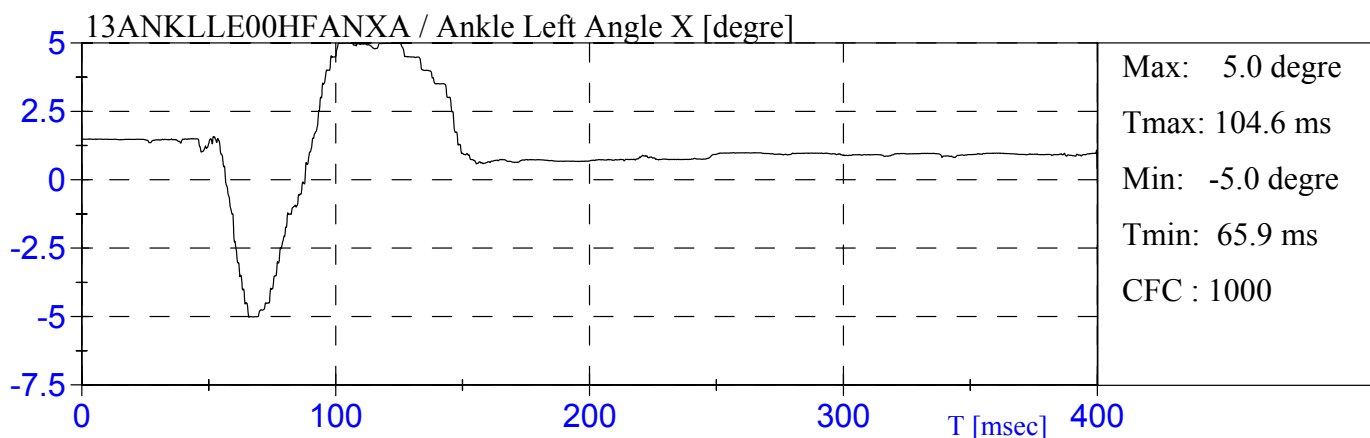


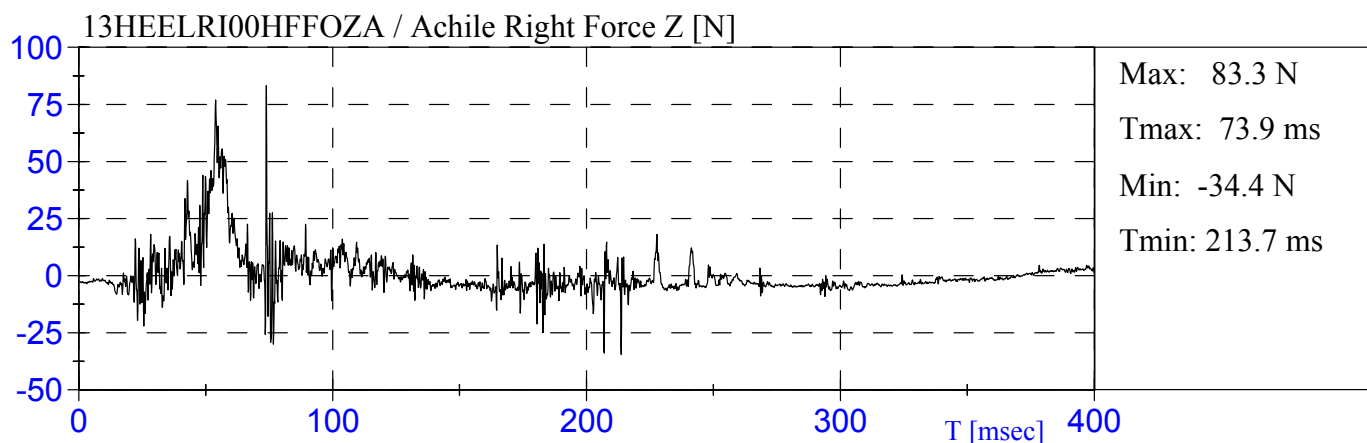
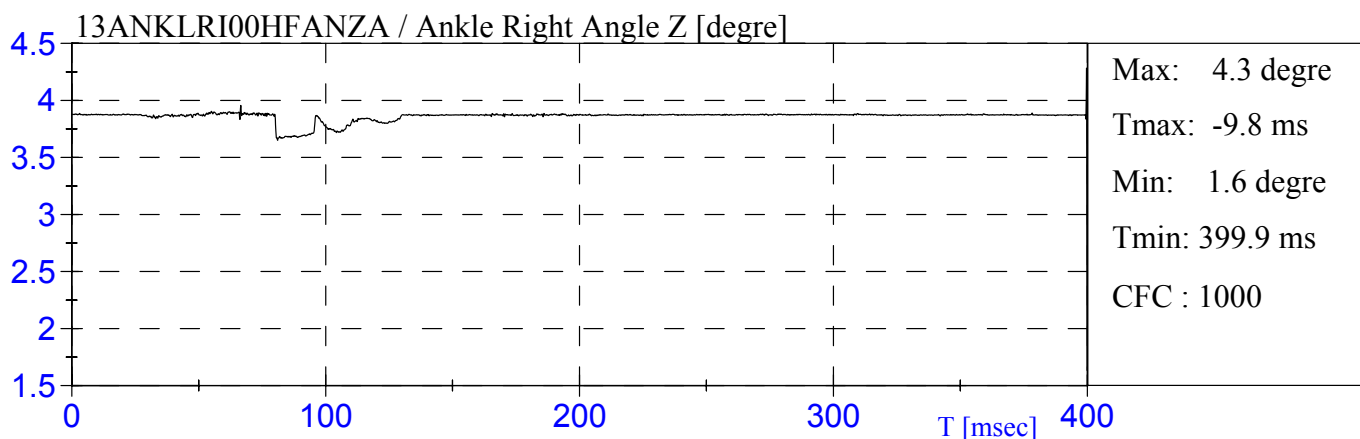
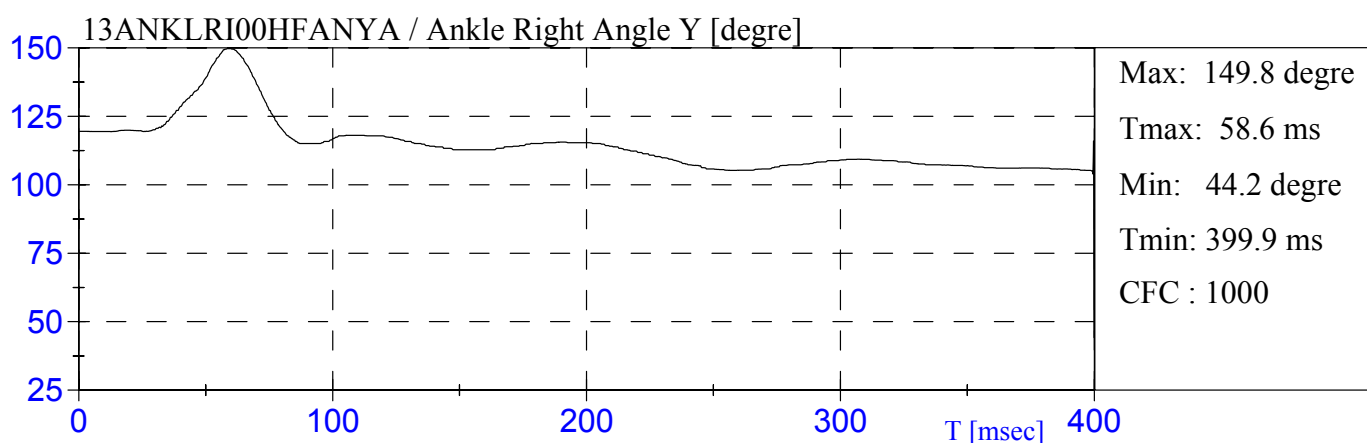
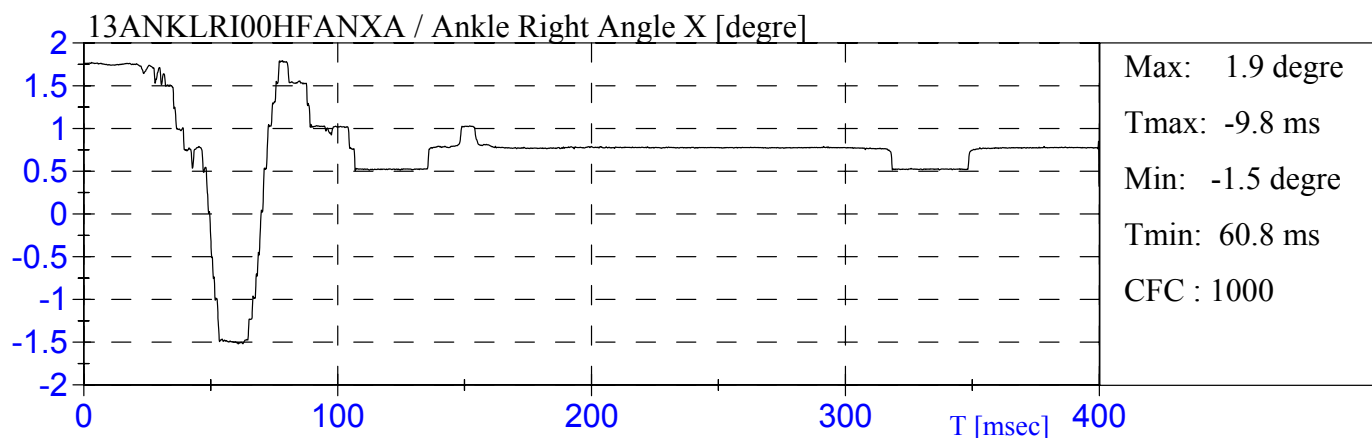


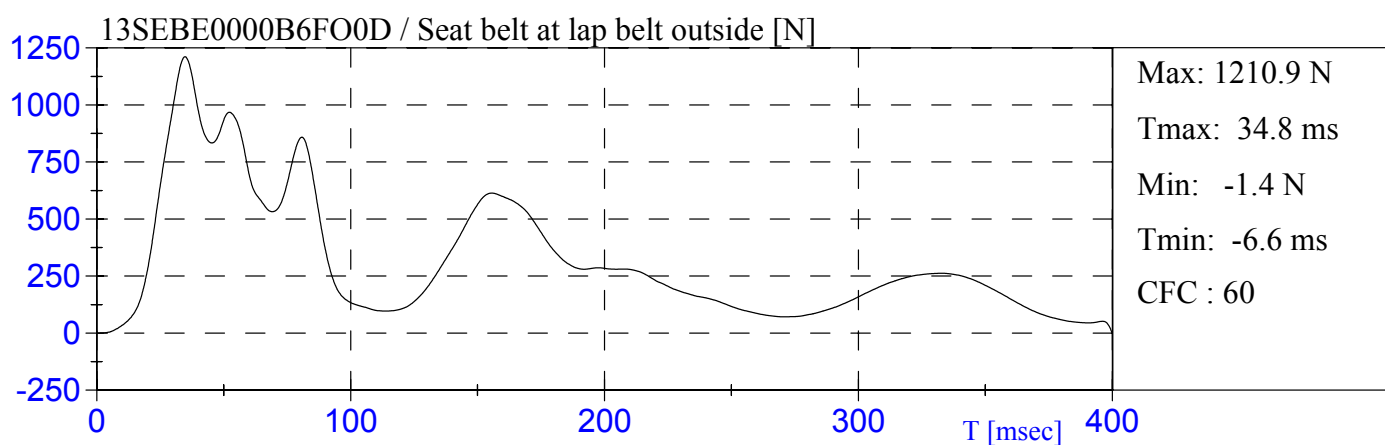
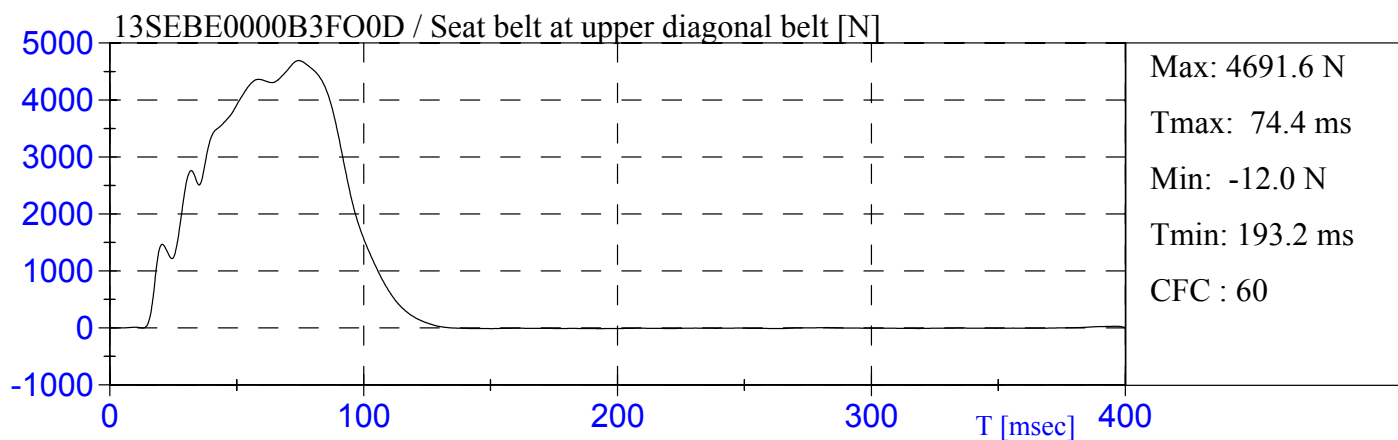


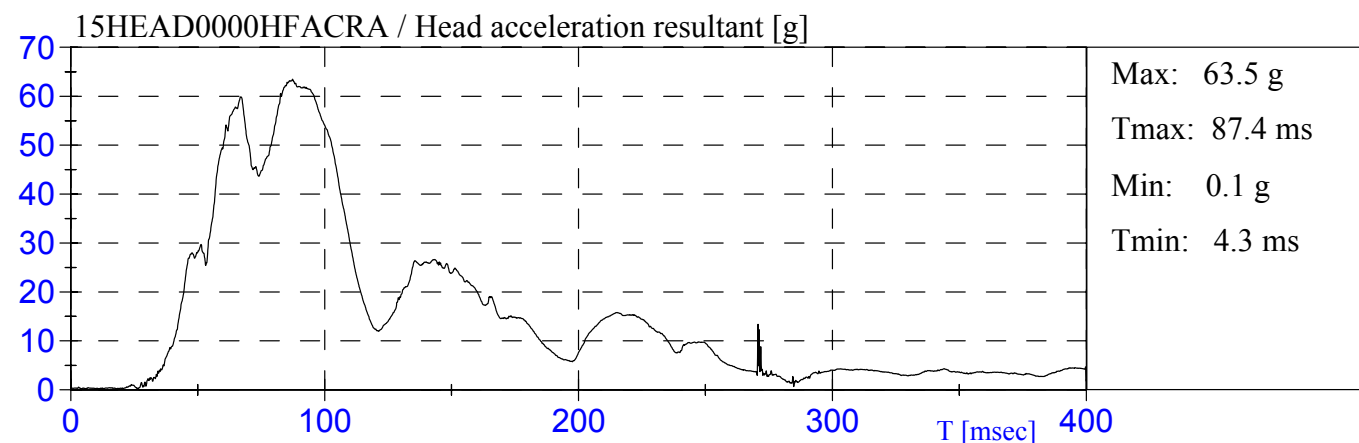
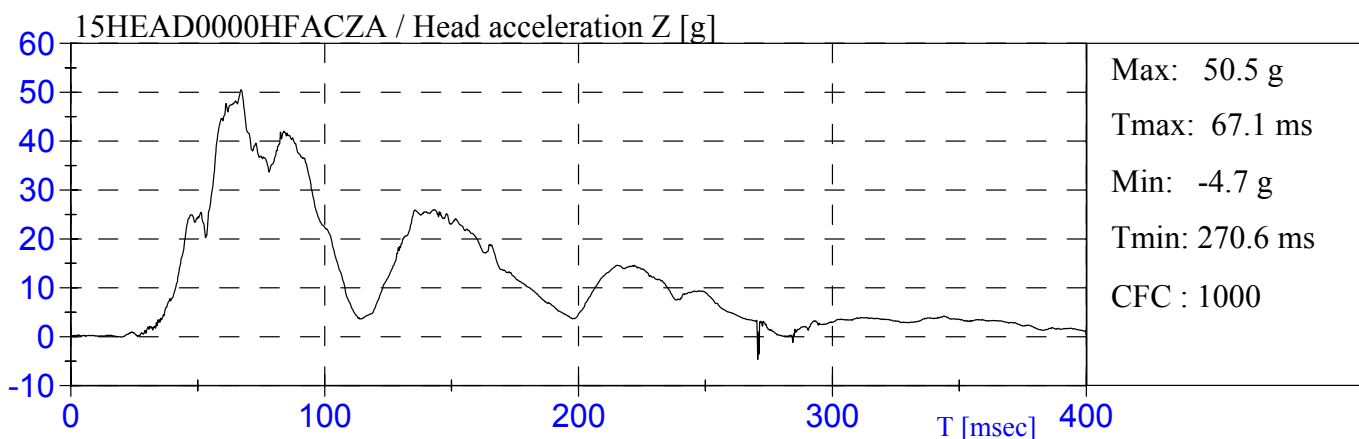
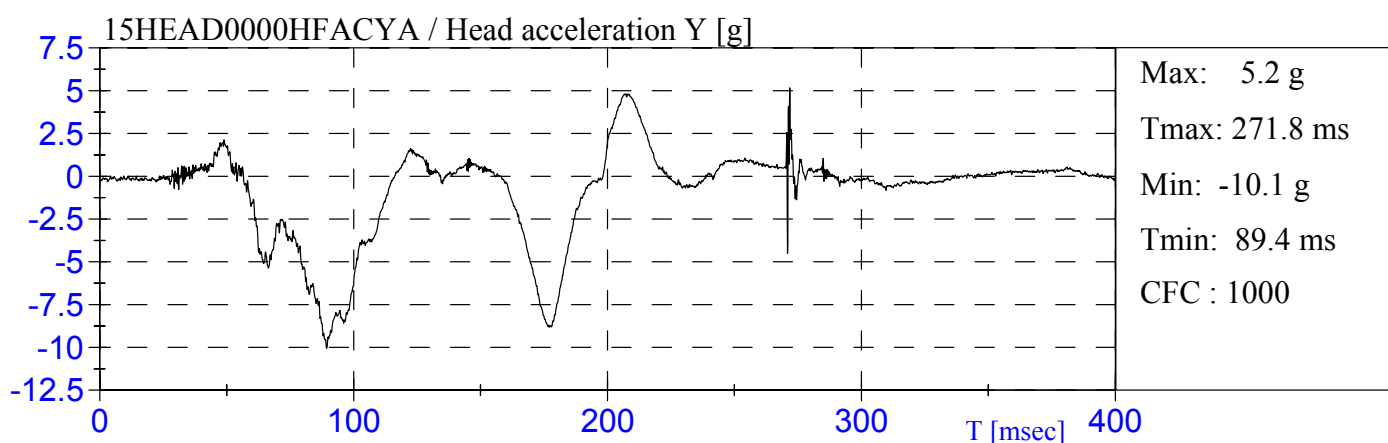
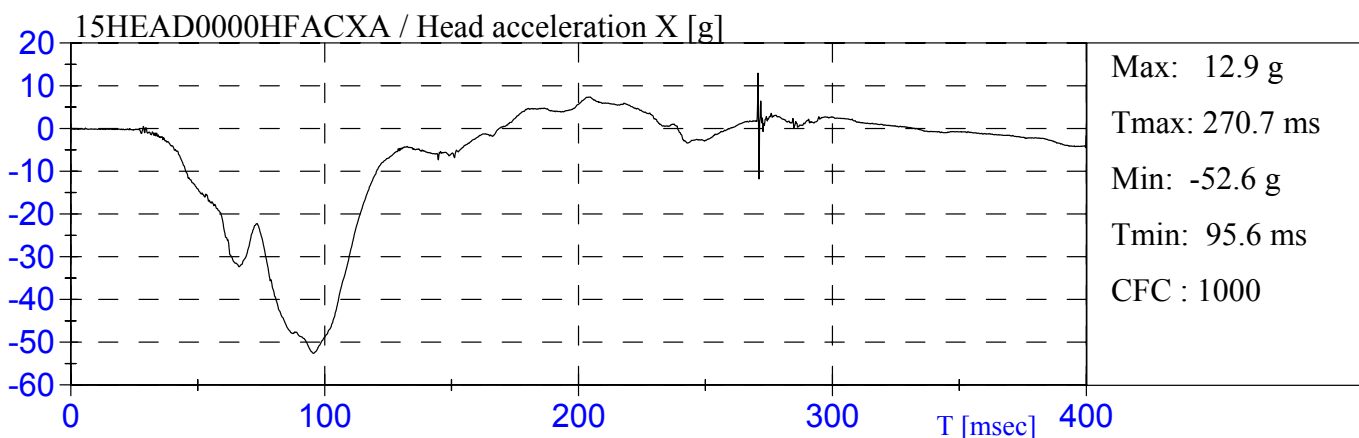


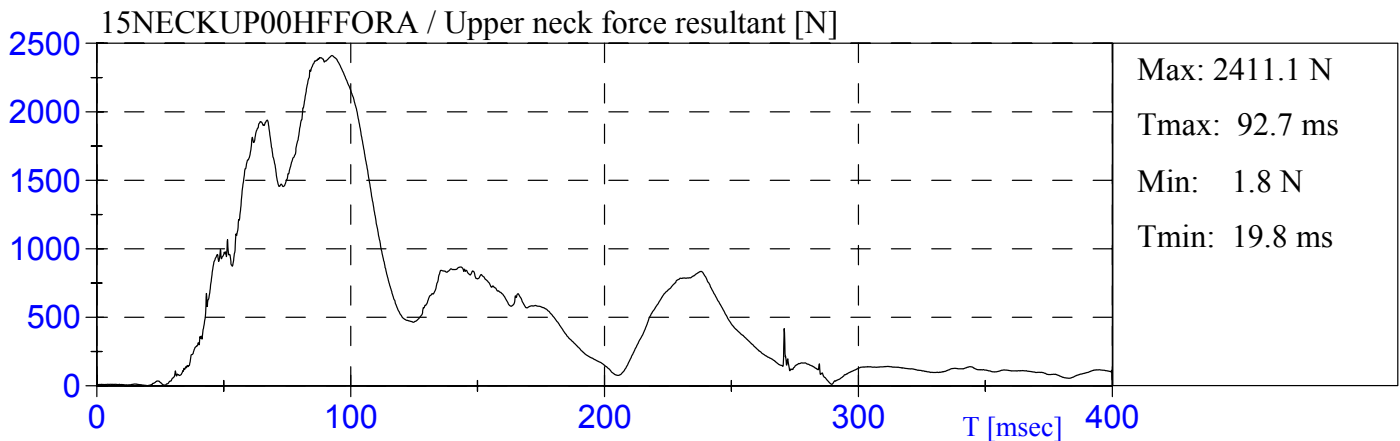
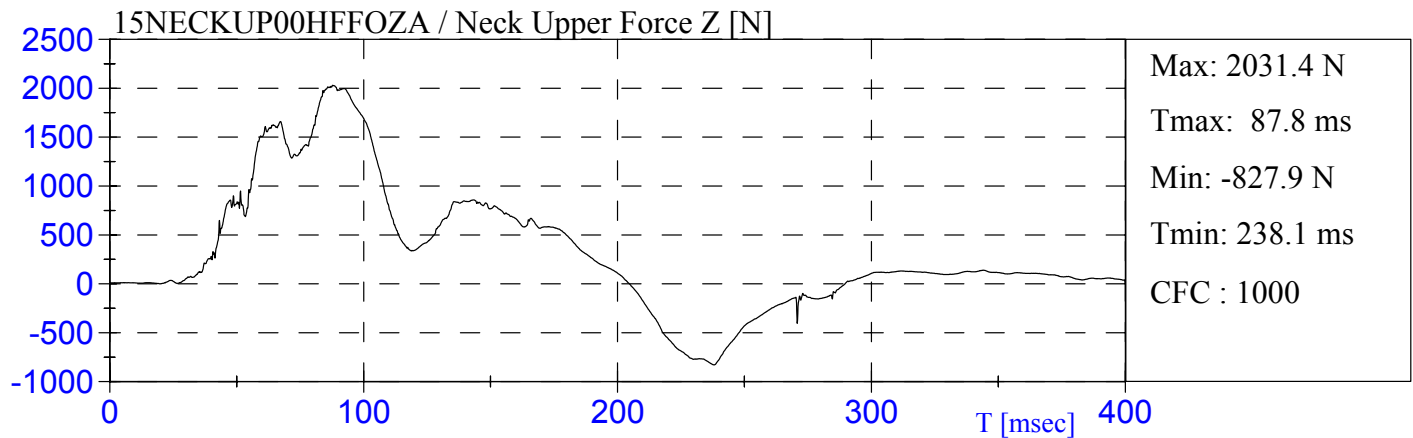
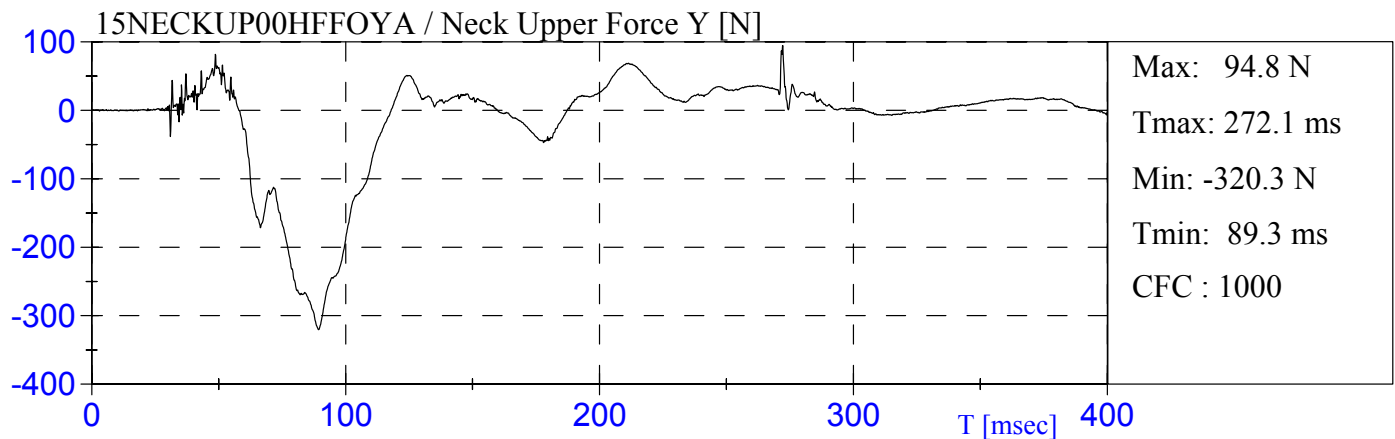
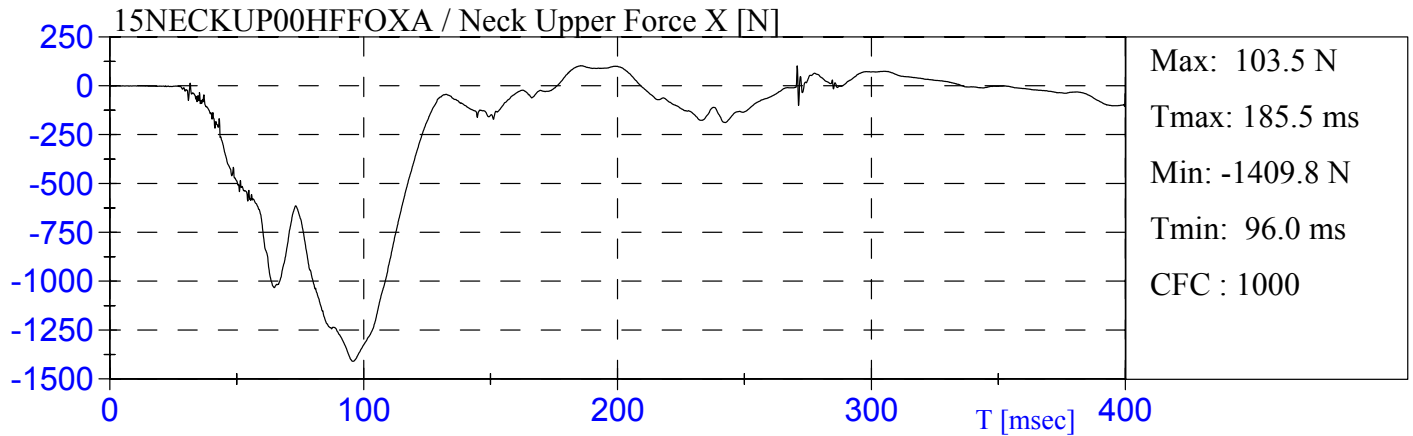


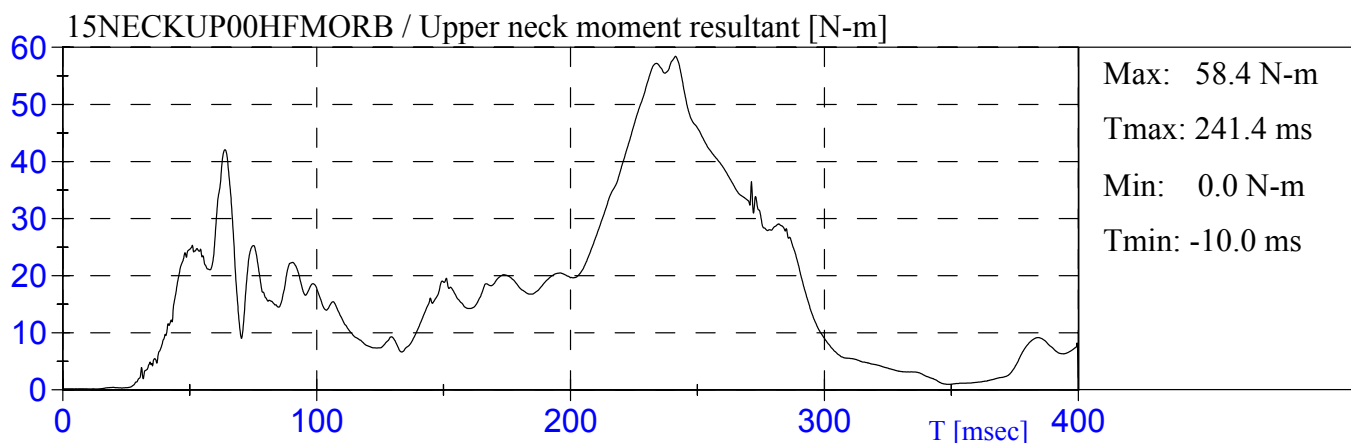
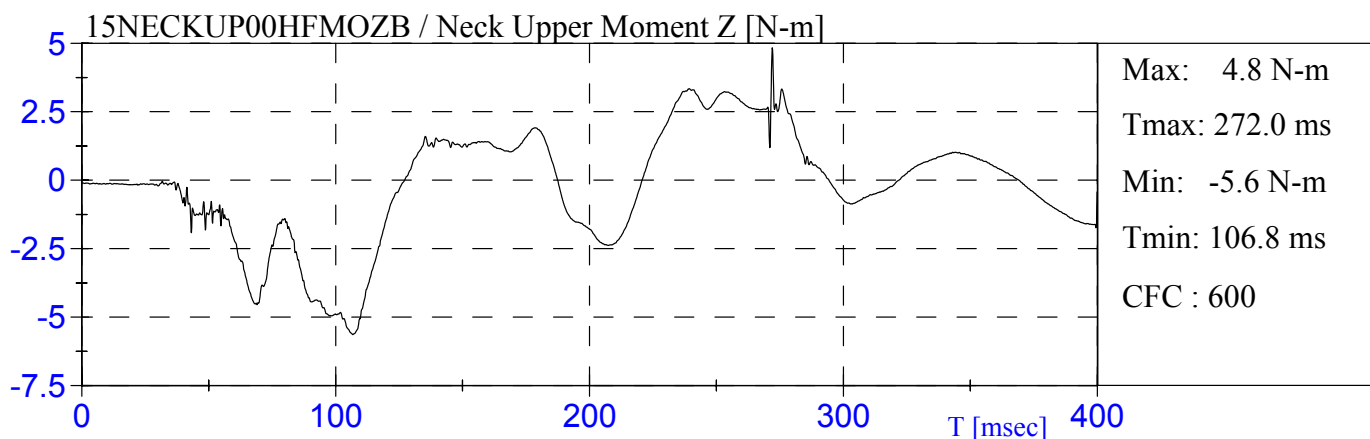
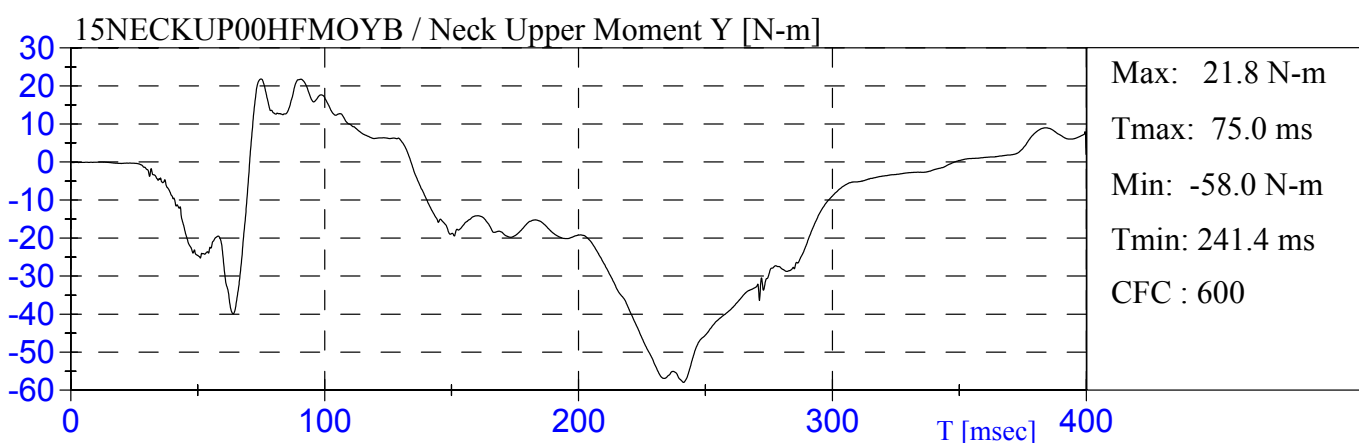
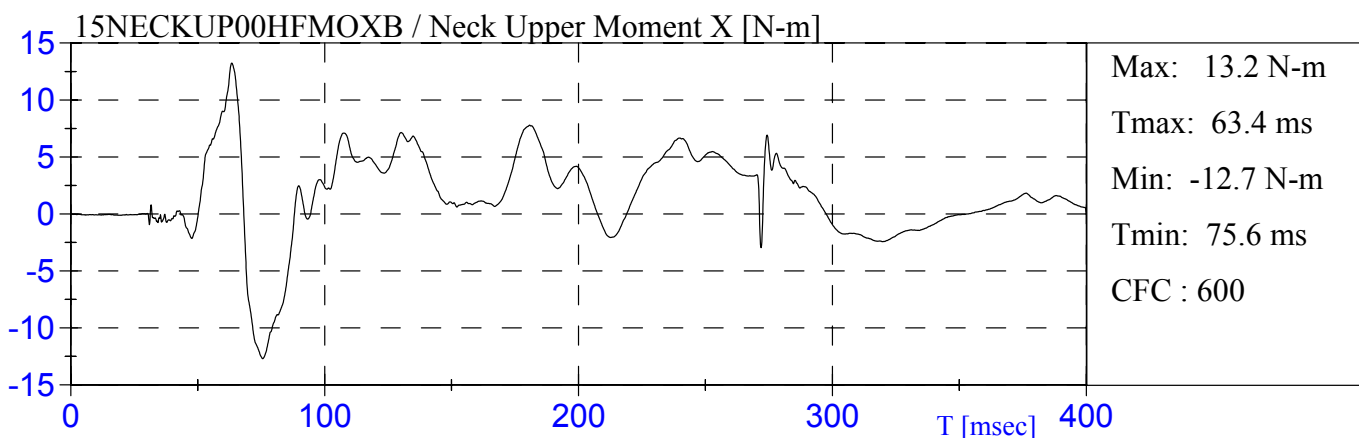


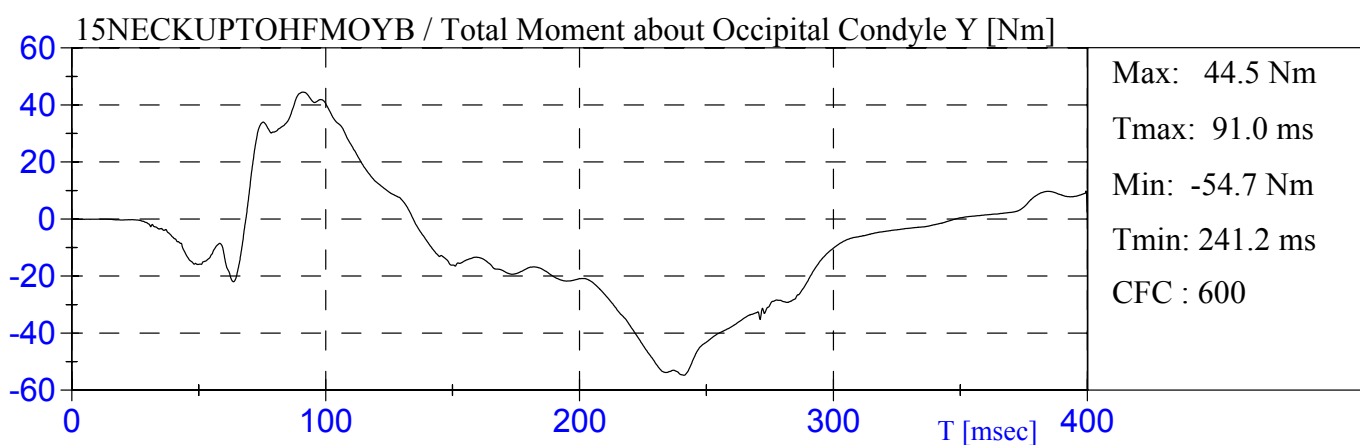
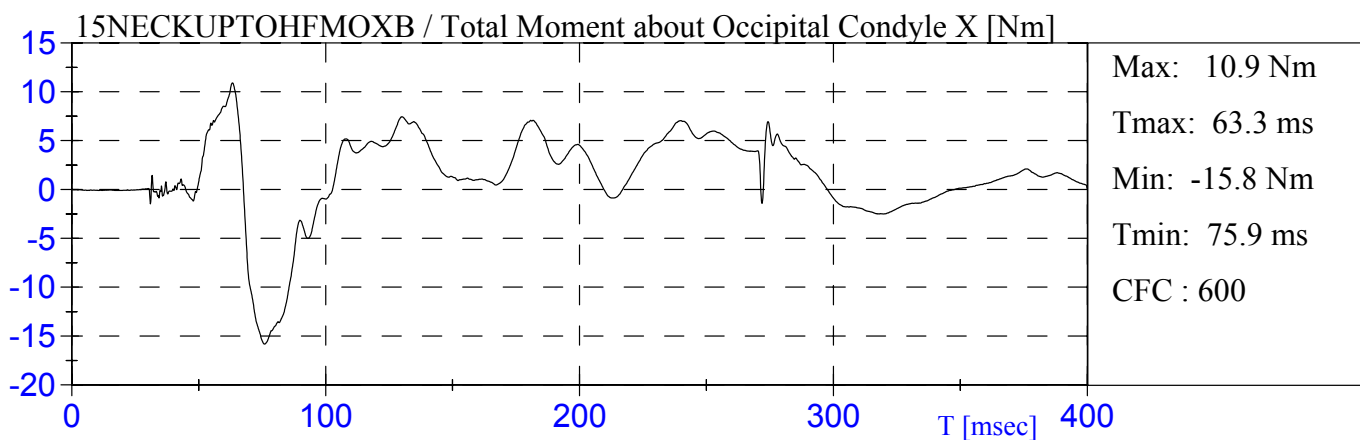


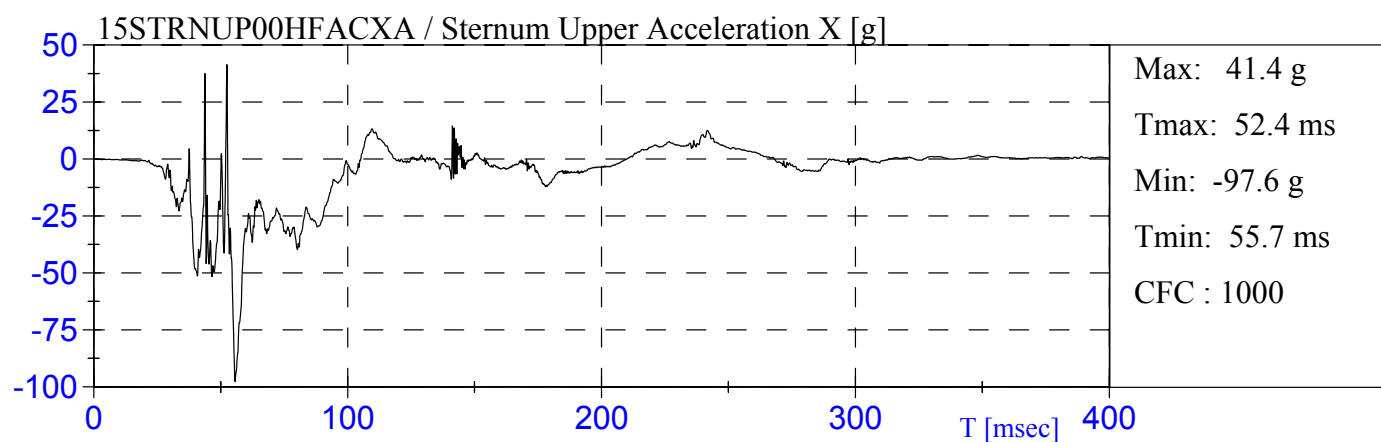


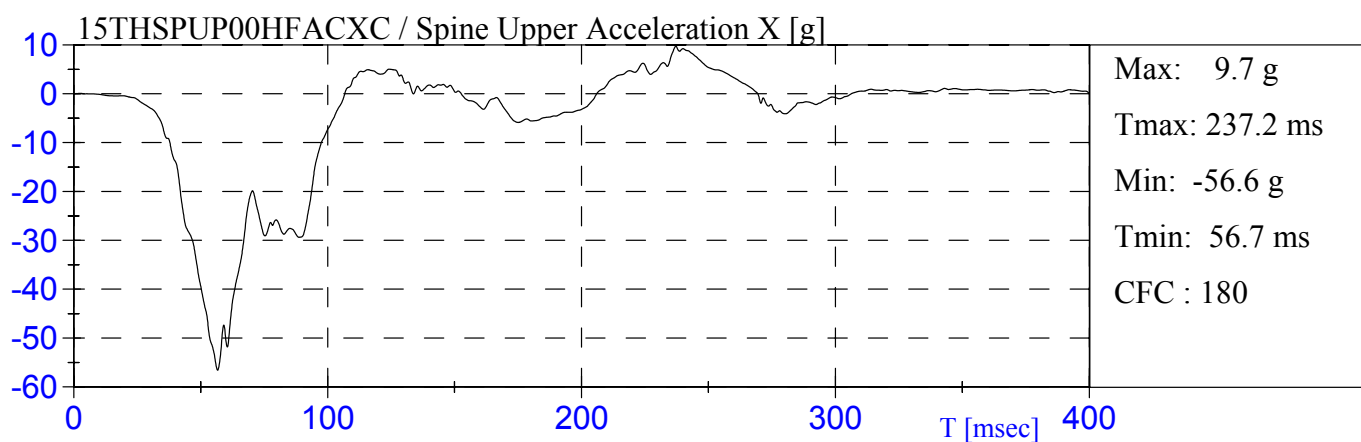


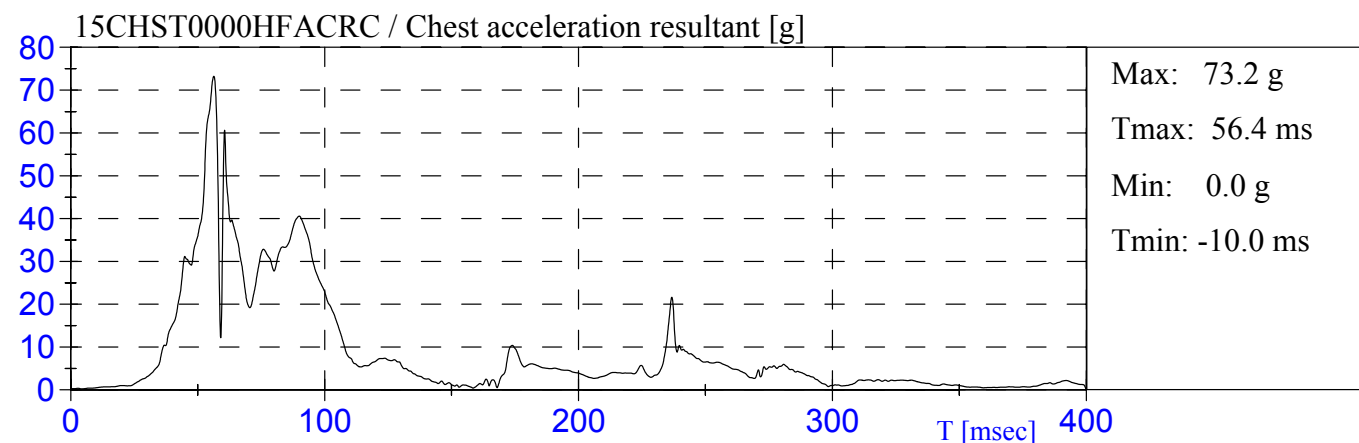
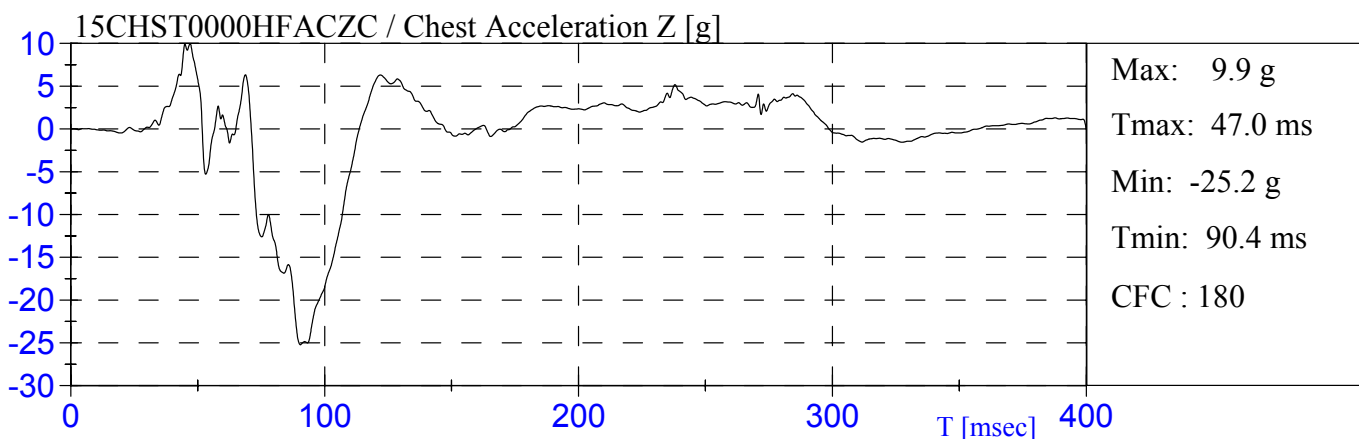
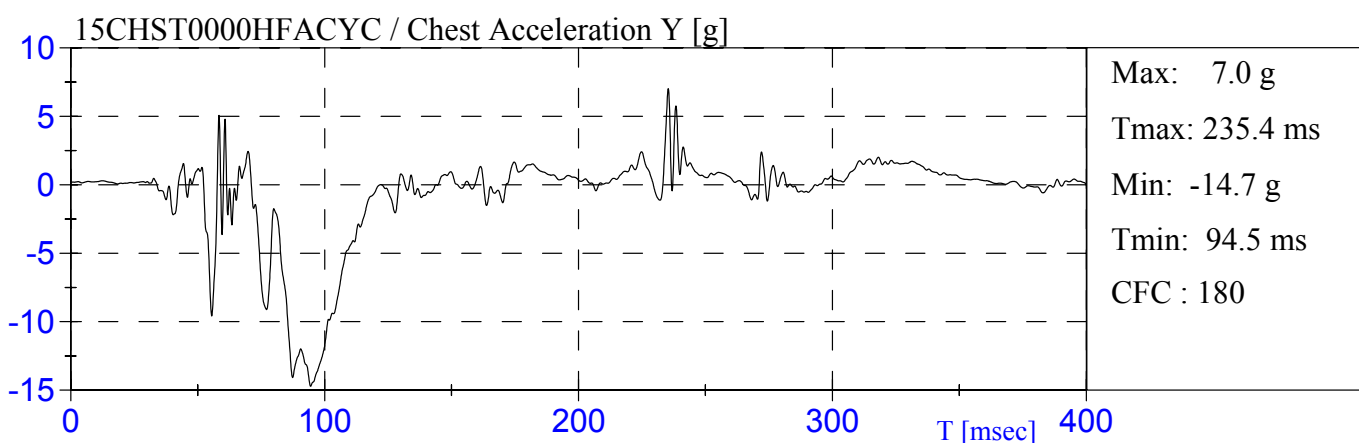
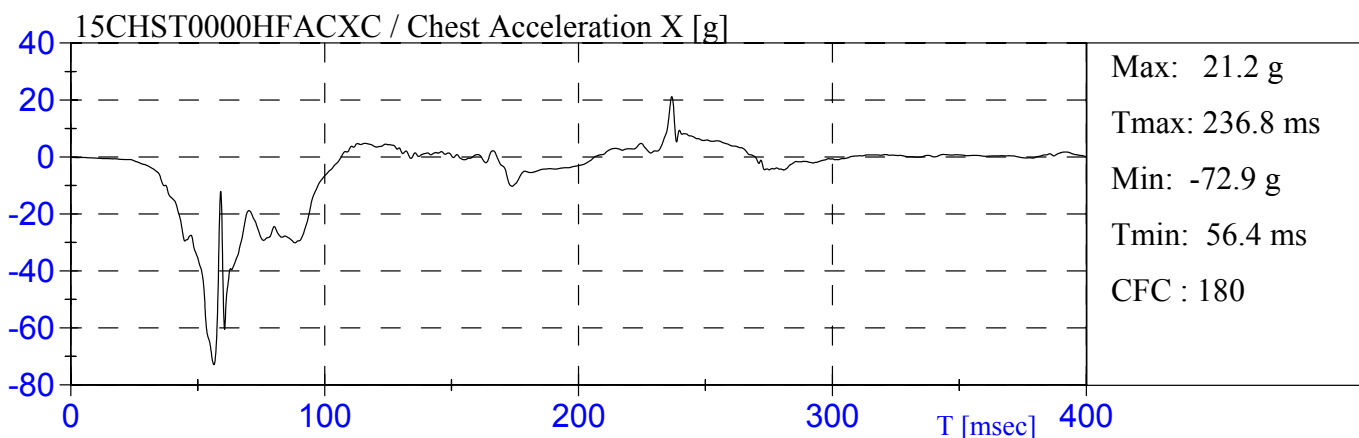


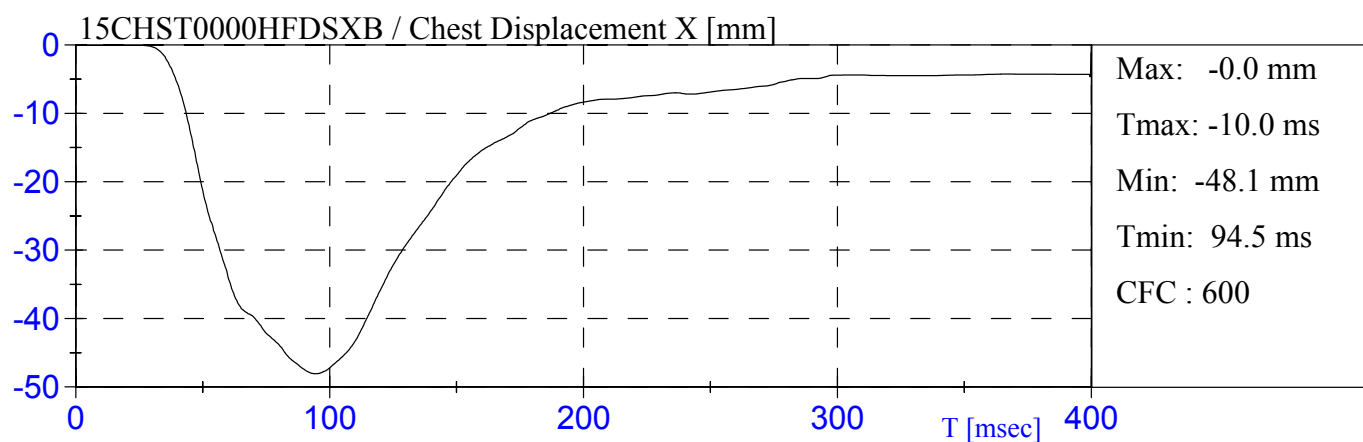


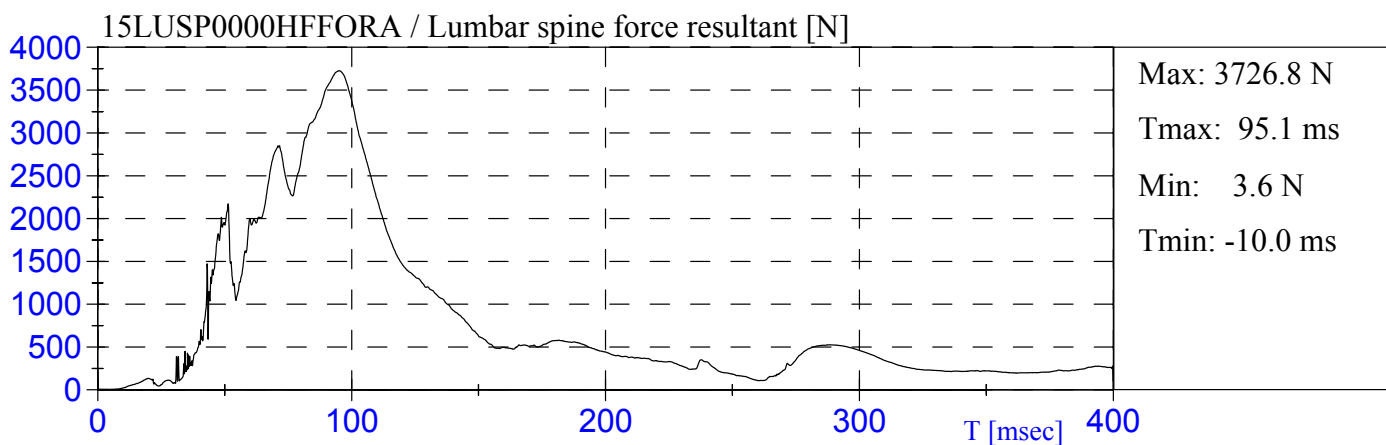
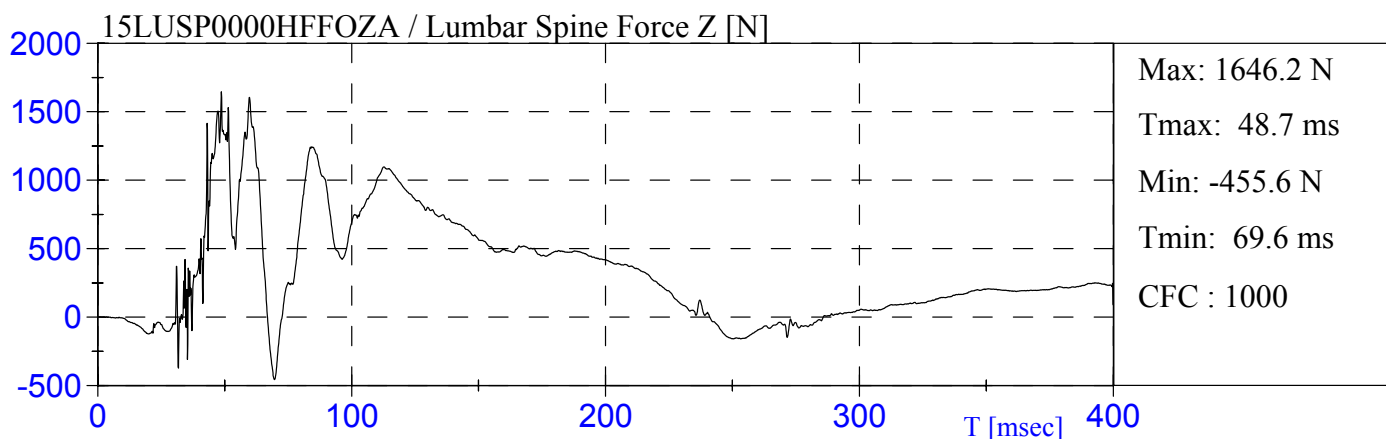
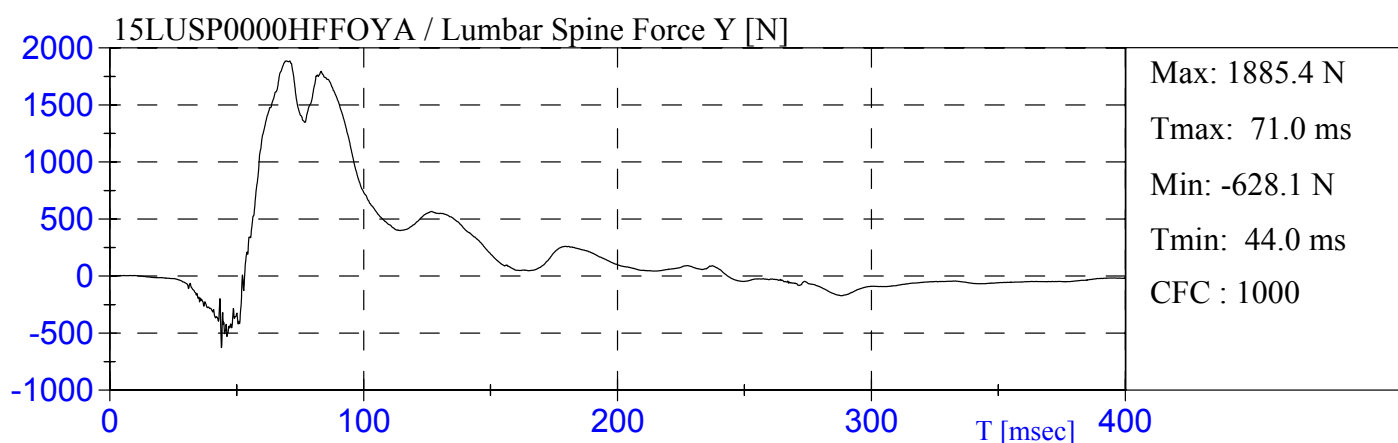
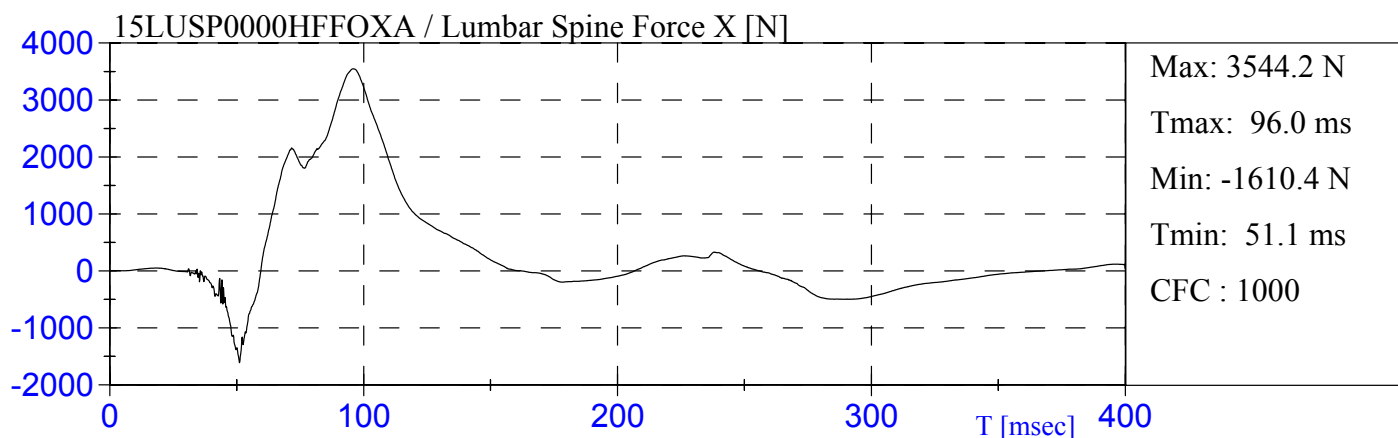


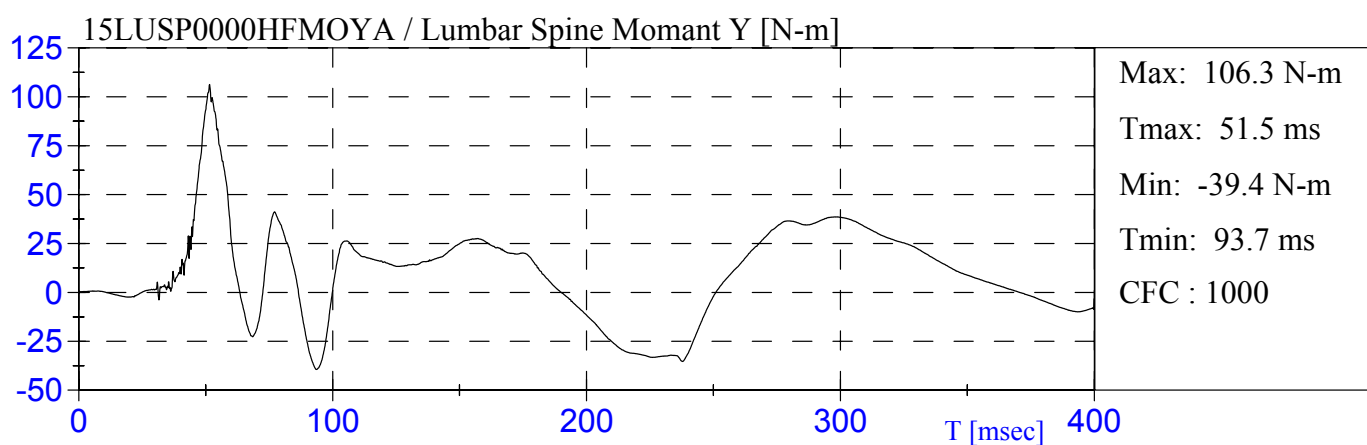
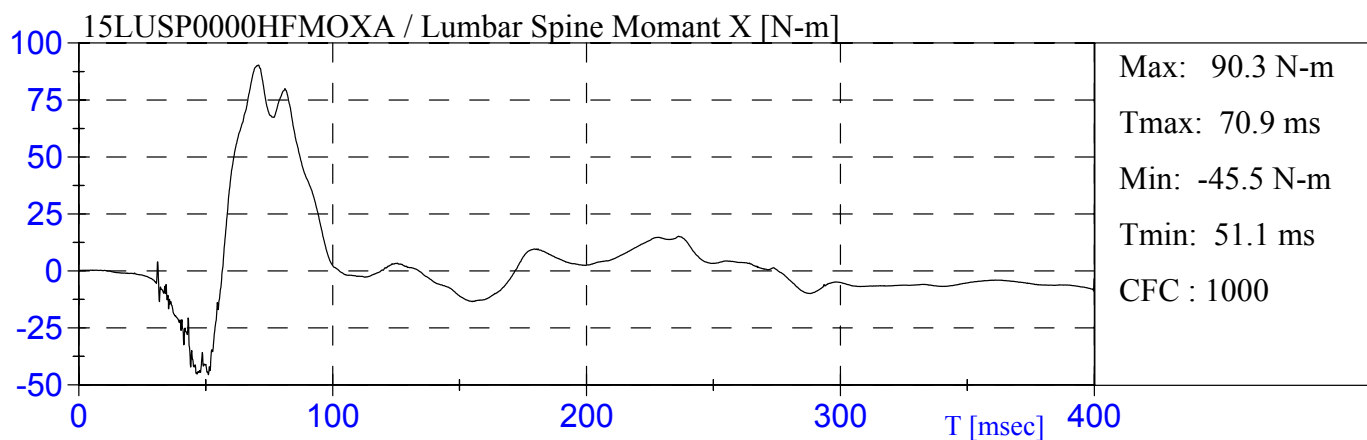


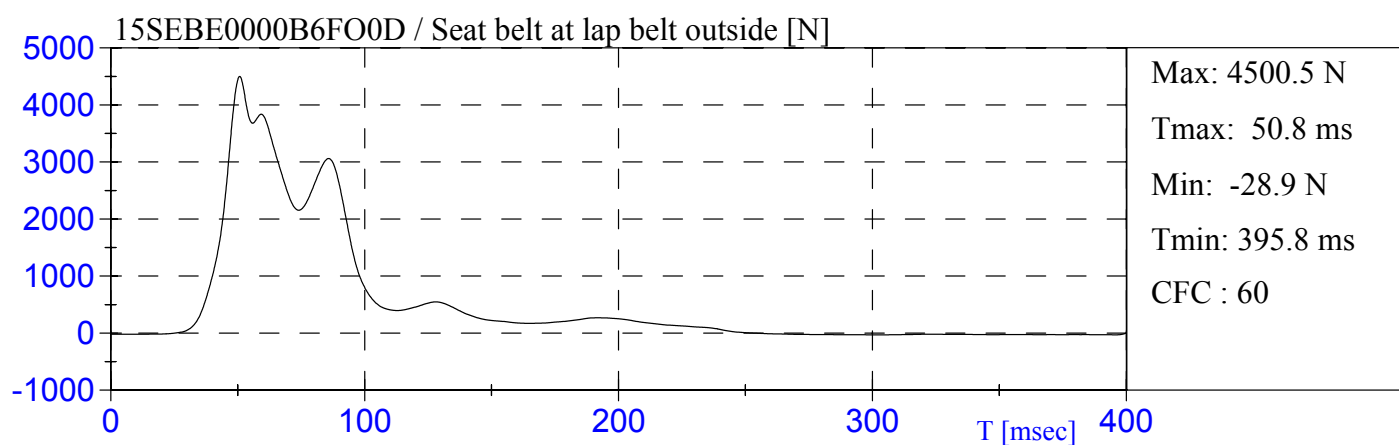
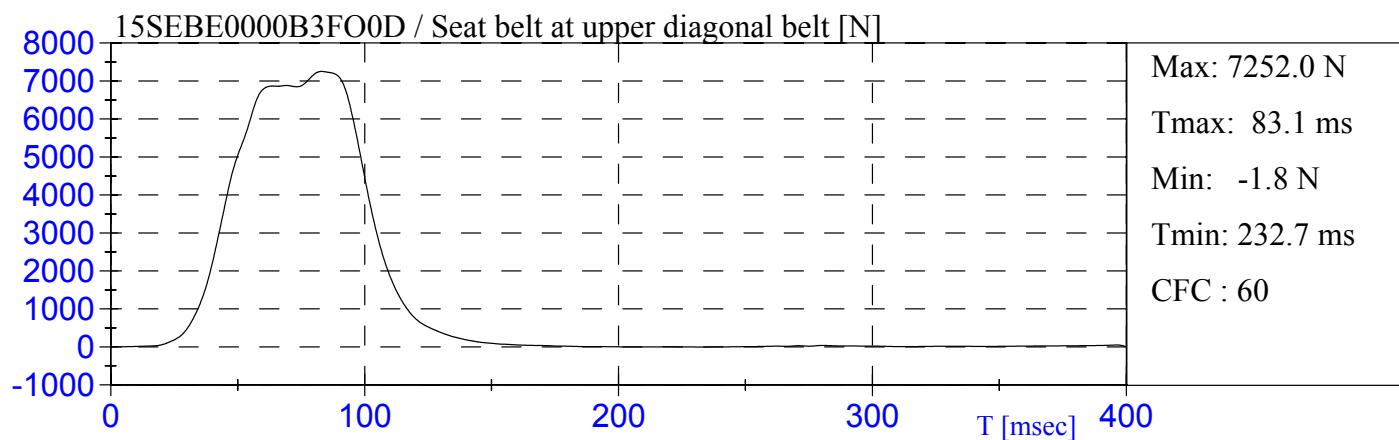


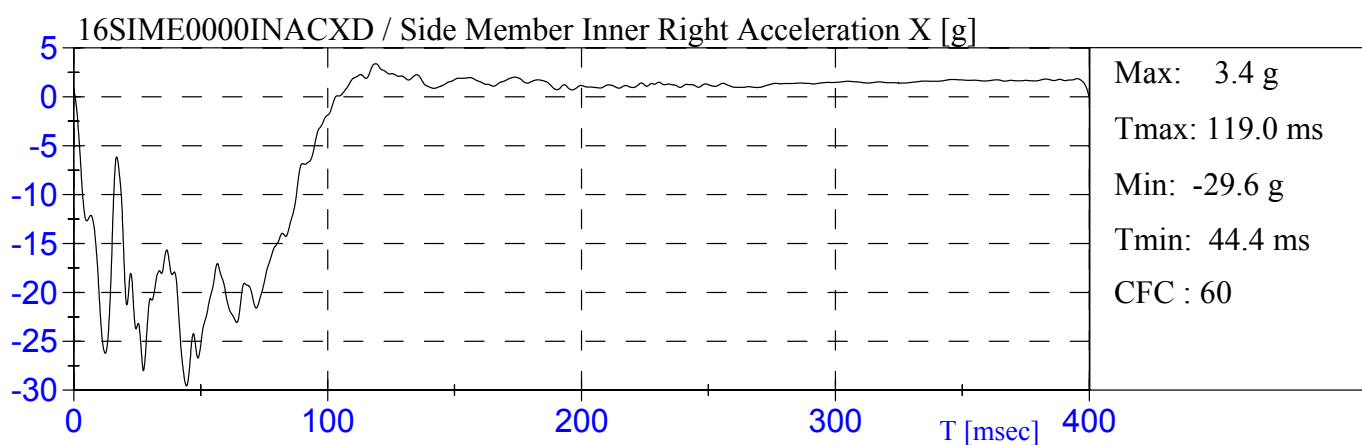
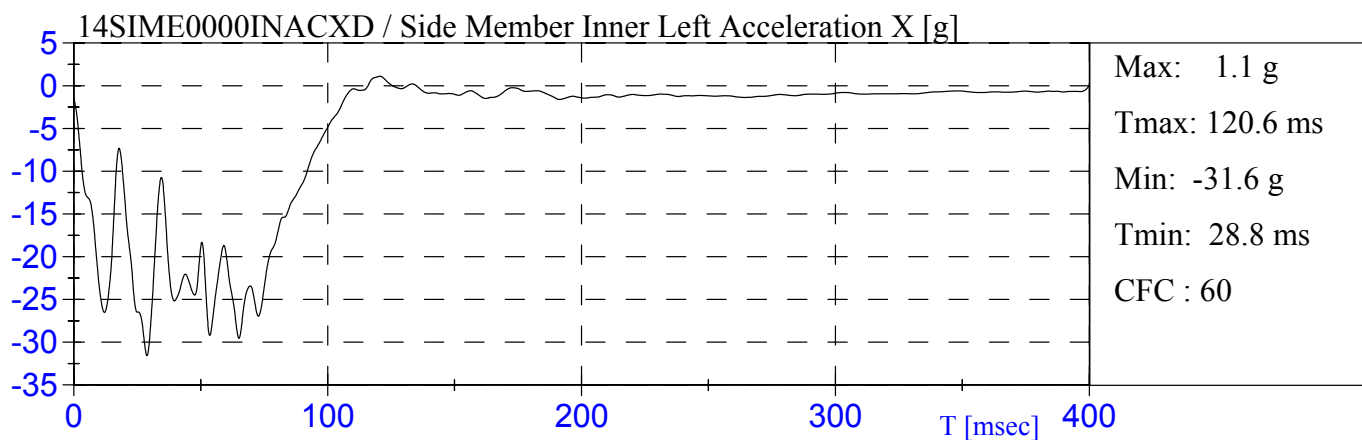


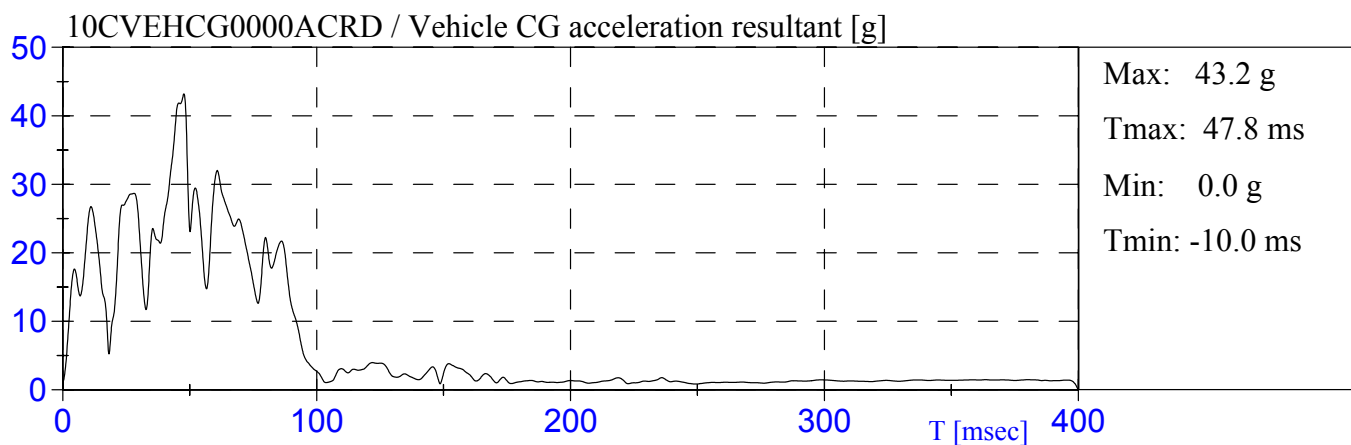
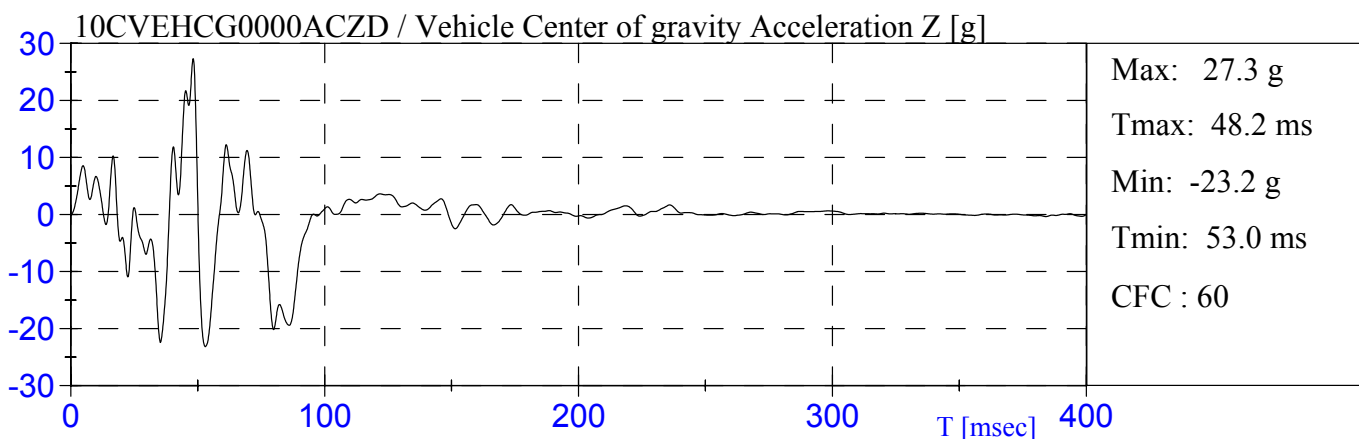
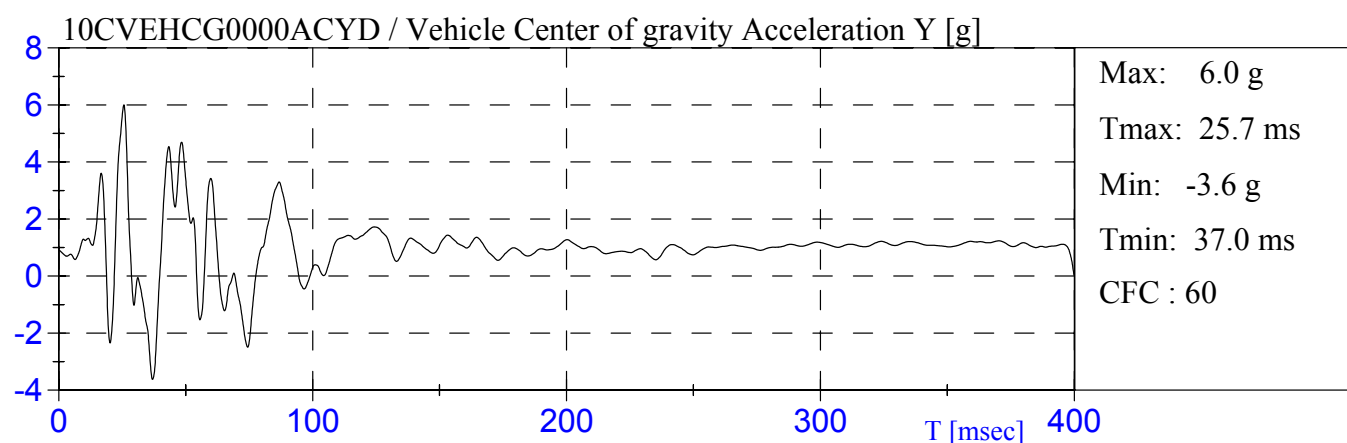
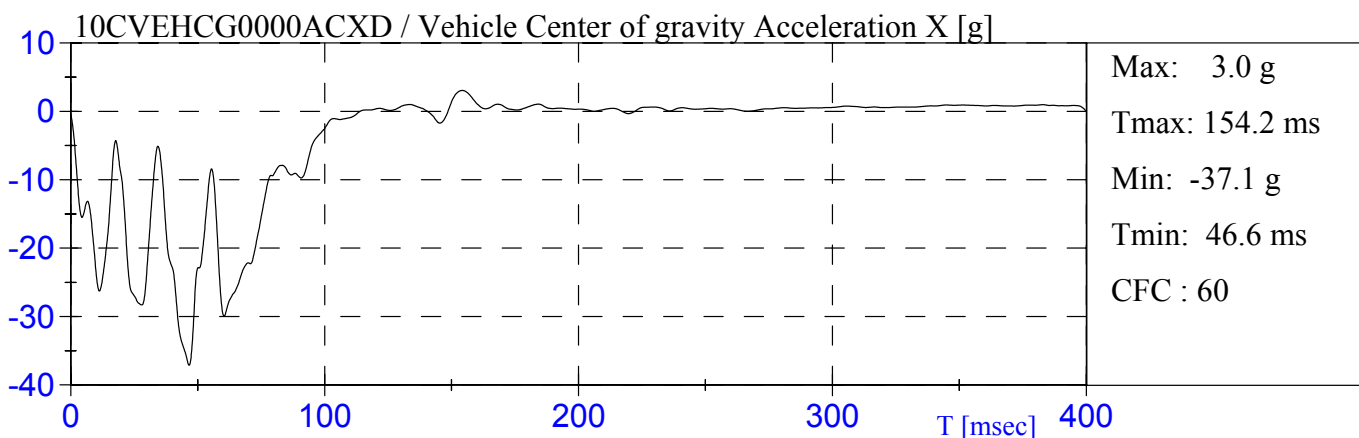


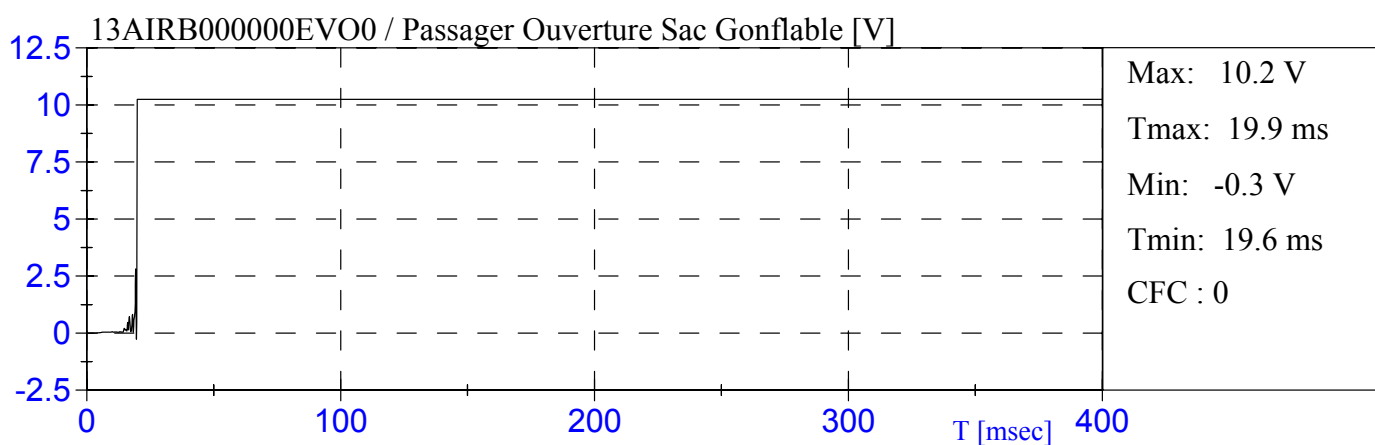
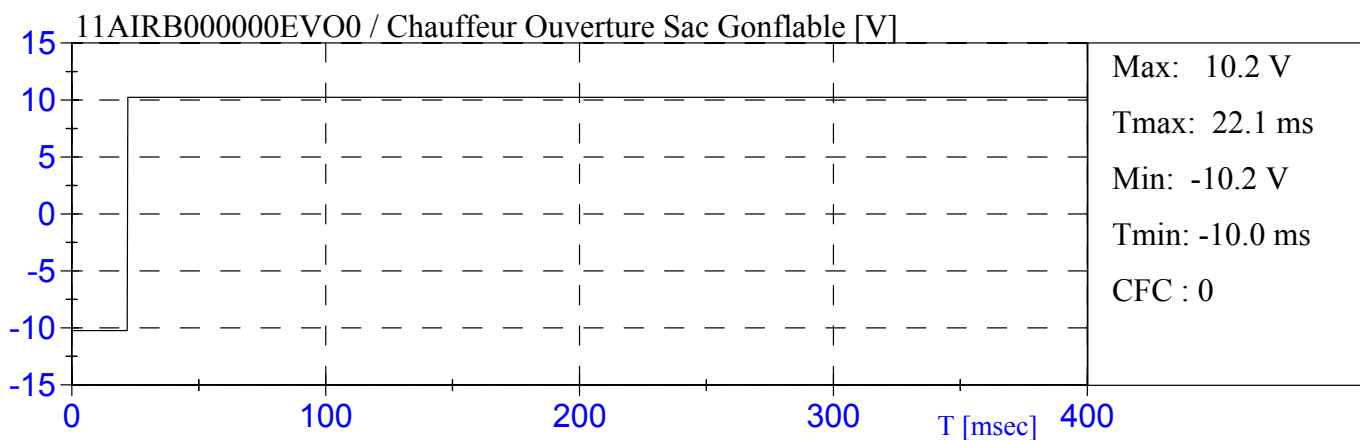


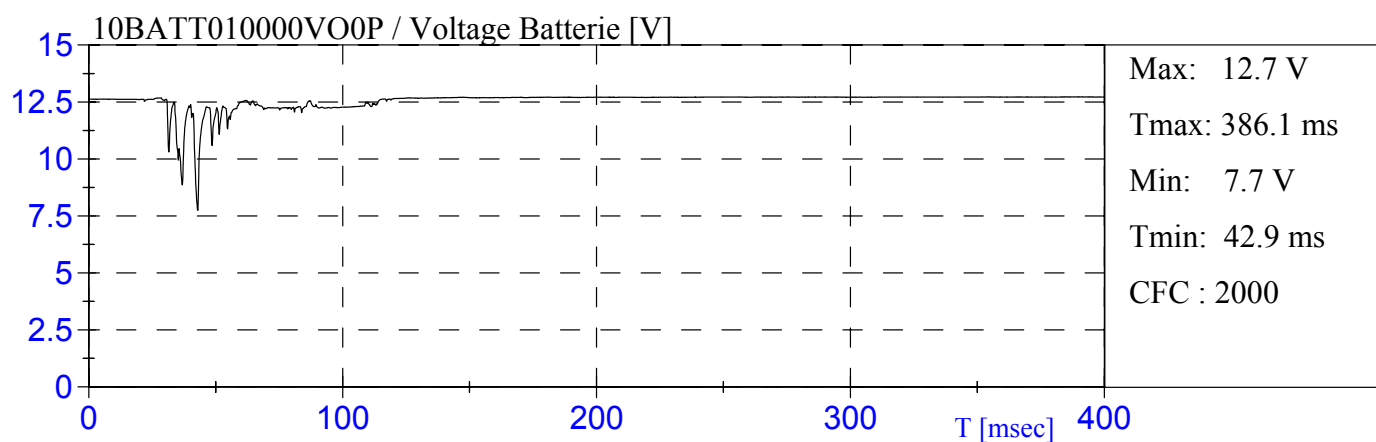


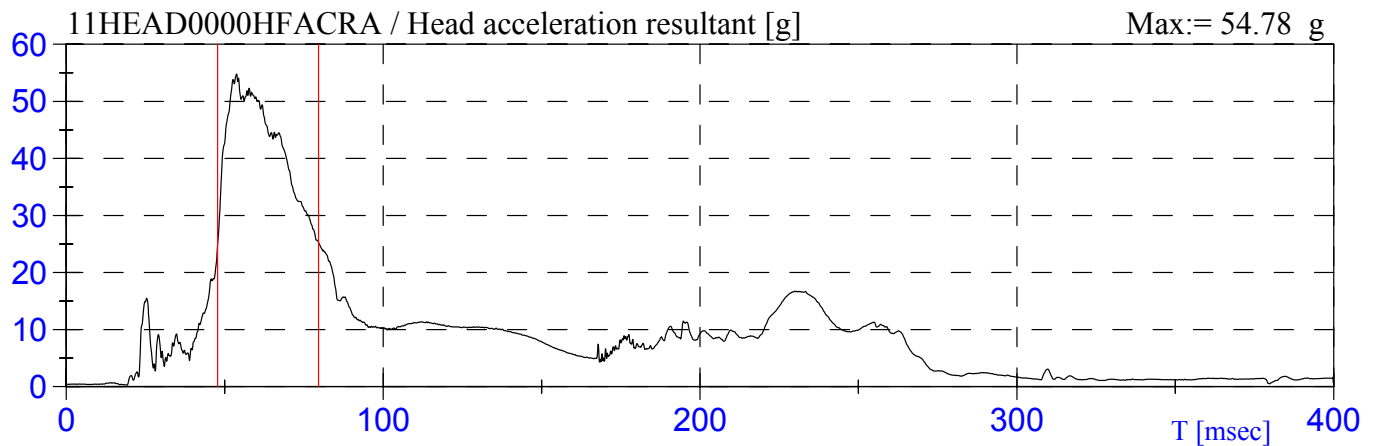








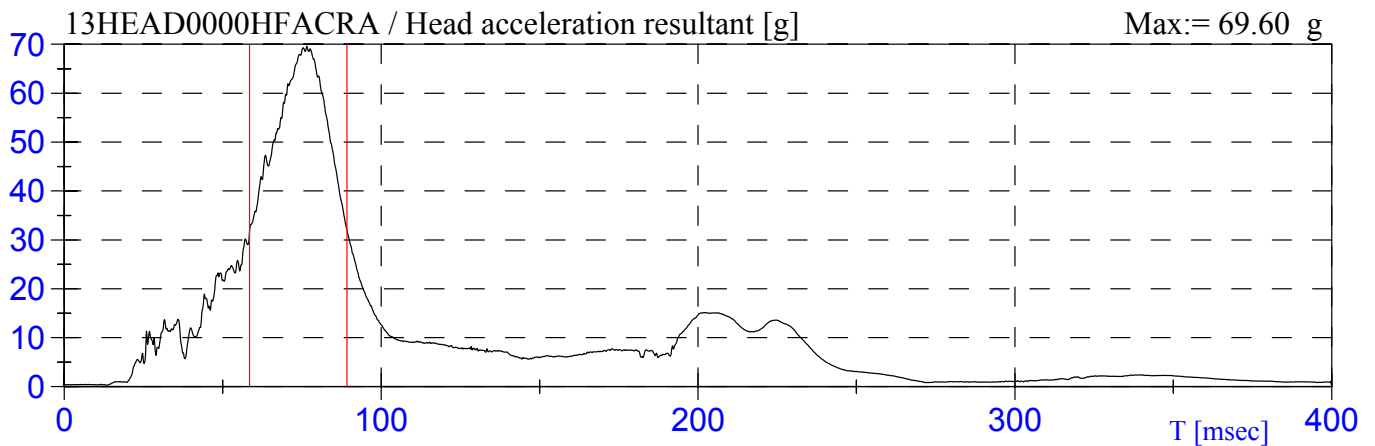




HEAD INJURY CRITERIA (HIC) *
CRITÈRE DE BLESSURE DE LA TÊTE

HIC:= 364	HIC(36ms):= 364	HIC(15ms):= 261
T1:= 47.8 ms	T1:= 47.8 ms	T1:= 50.2 ms
T2:= 79.6 ms	T2:= 79.6 ms	T2:= 65.2 ms

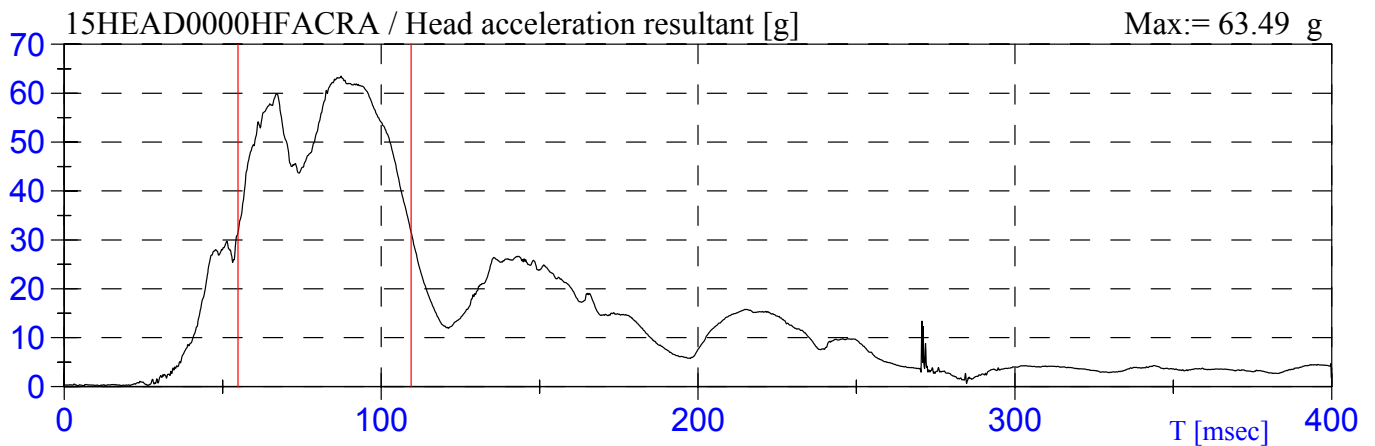
* Selon / According To: SAE J1727 96-08



HEAD INJURY CRITERIA (HIC) *
CRITÈRE DE BLESSURE DE LA TÊTE

HIC:= 633	HIC(36ms):= 633	HIC(15ms):= 483
T1:= 58.5 ms	T1:= 58.5 ms	T1:= 68.2 ms
T2:= 89.2 ms	T2:= 89.2 ms	T2:= 83.2 ms

* Selon / According To: SAE J1727 96-08



HEAD INJURY CRITERIA (HIC) *

CRITÈRE DE BLESSURE DE LA TÊTE

HIC:= 1086	HIC(36ms):= 841	HIC(15ms):= 446
T1:= 54.8 ms	T1:= 62.6 ms	T1:= 82.0 ms
T2:= 109.5 ms	T2:= 98.6 ms	T2:= 97.0 ms

* Selon / According To: SAE J1727 96-08

Neck Injury Criteria: 11NIJCIP000000YX

$N_{ij}^* = 0.71$

Valeurs critiques
Criticals Values

N _{tf}	N _{te}	N _{cf}	N _{ce}	Tc	4287
				Cc	3880
0.15	0.71	0.19	0.34	Fc	155
				Ec	67

* Selon / According To: Federal Register 5/2000

Neck Injury Criteria: 13NIJCIP000000YX

$N_{ij}^* = 0.52$

Valeurs critiques
Criticals Values

N _{tf}	N _{te}	N _{cf}	N _{ce}	Tc	4287
				Cc	3880
0.12	0.52	0.17	0.08	Fc	155
				Ec	67

* Selon / According To: Federal Register 5/2000

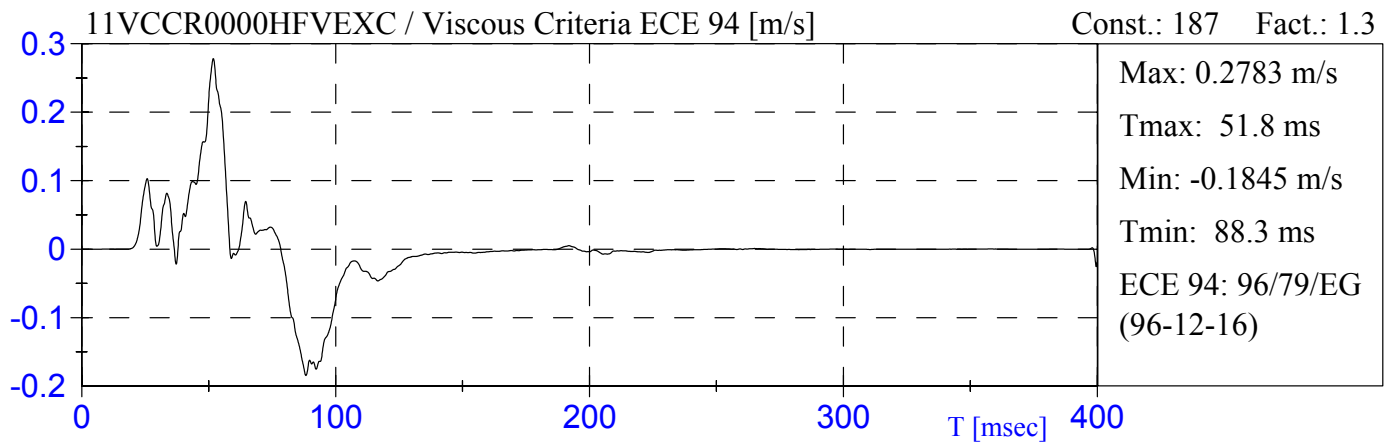
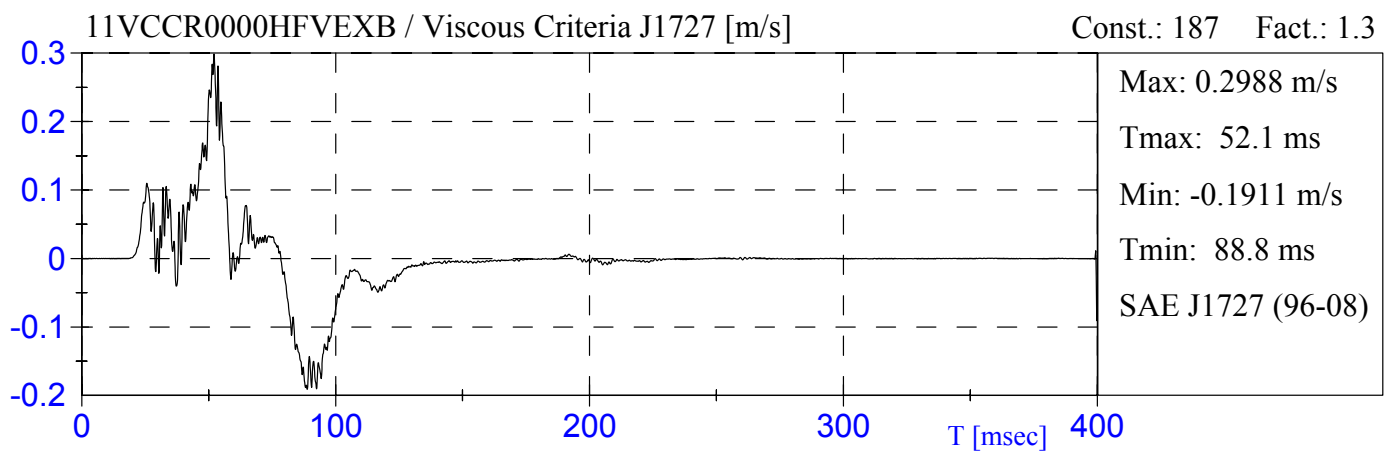
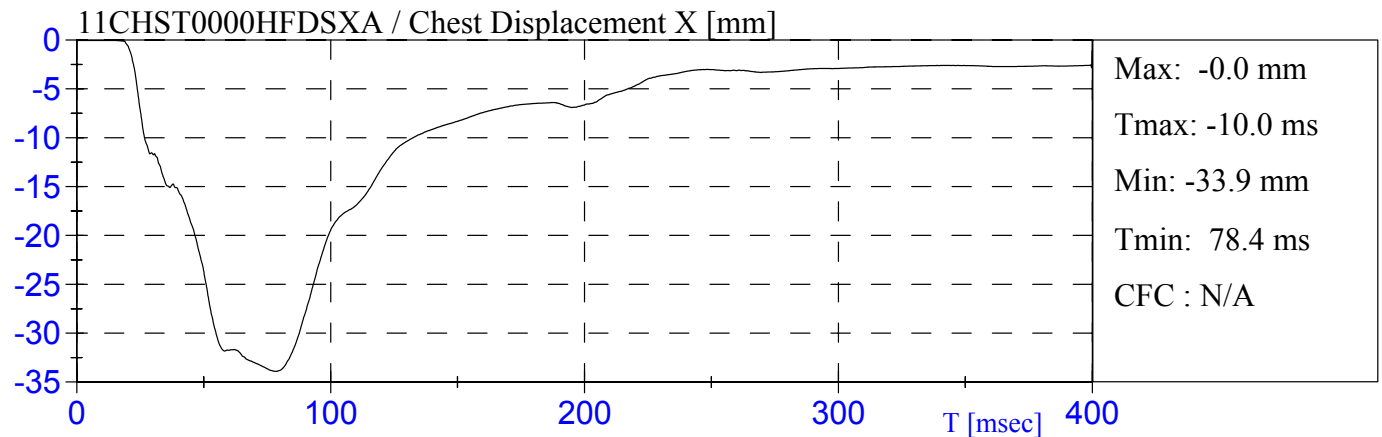
Neck Injury Criteria: 15NIJCIP000000YX

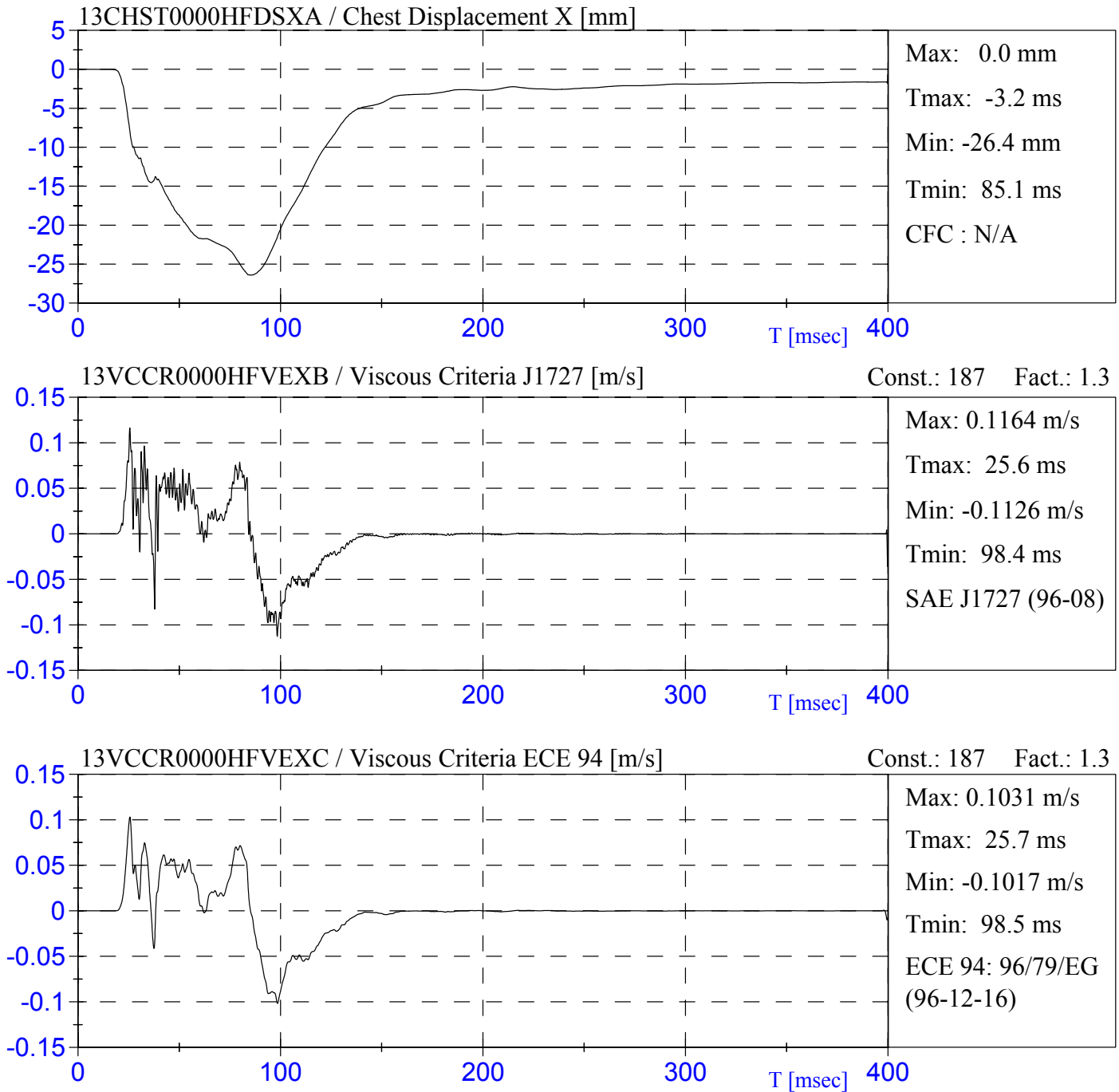
$N_{ij}^* = 1.01$

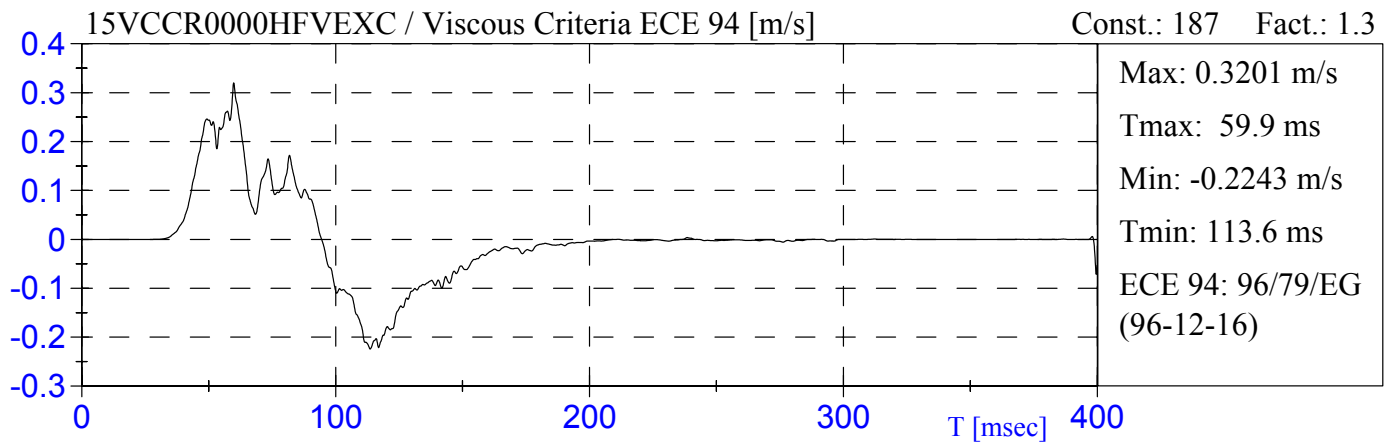
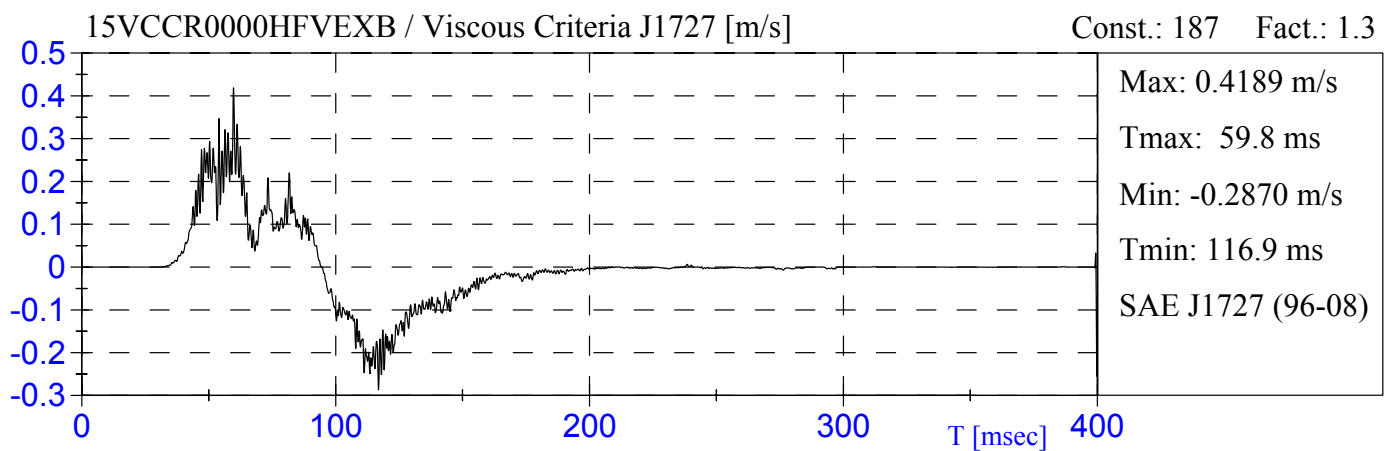
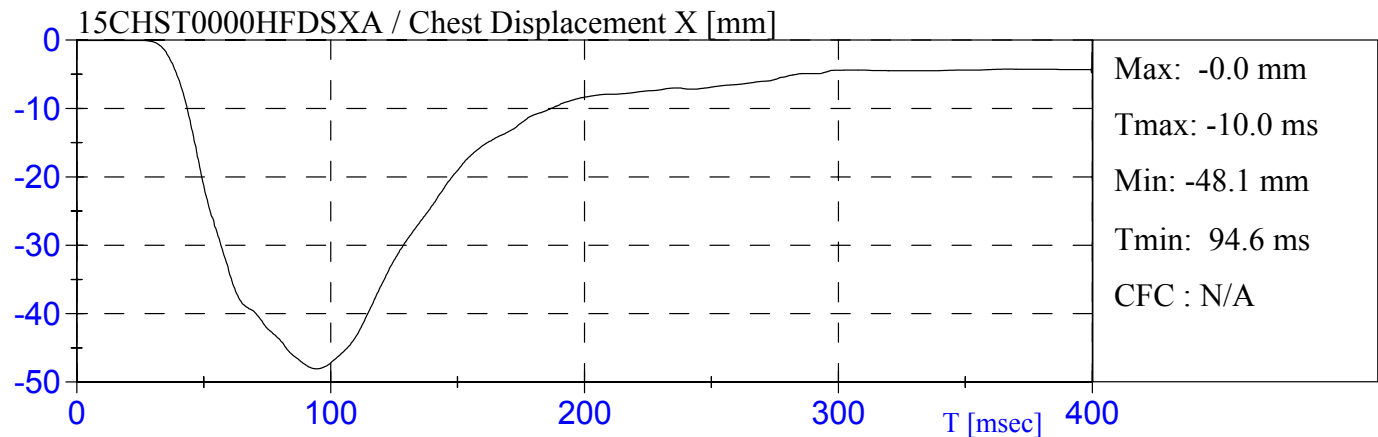
Valeurs critiques
Criticals Values

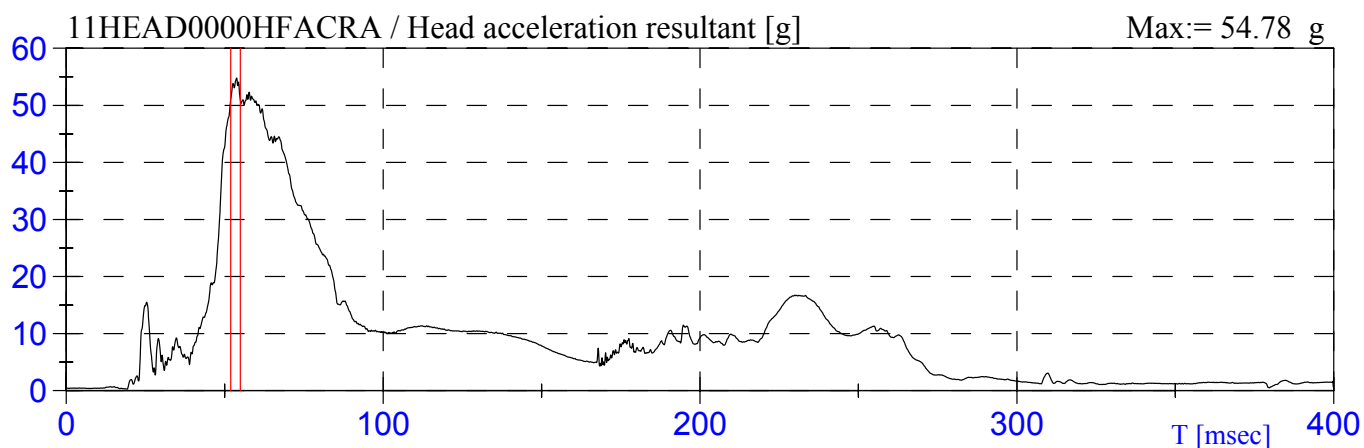
N _{tf}	N _{te}	N _{cf}	N _{ce}	Tc	4287
				Cc	3880
0.75	0.70	0.00	1.01	Fc	155
				Ec	67

* Selon / According To: Federal Register 5/2000



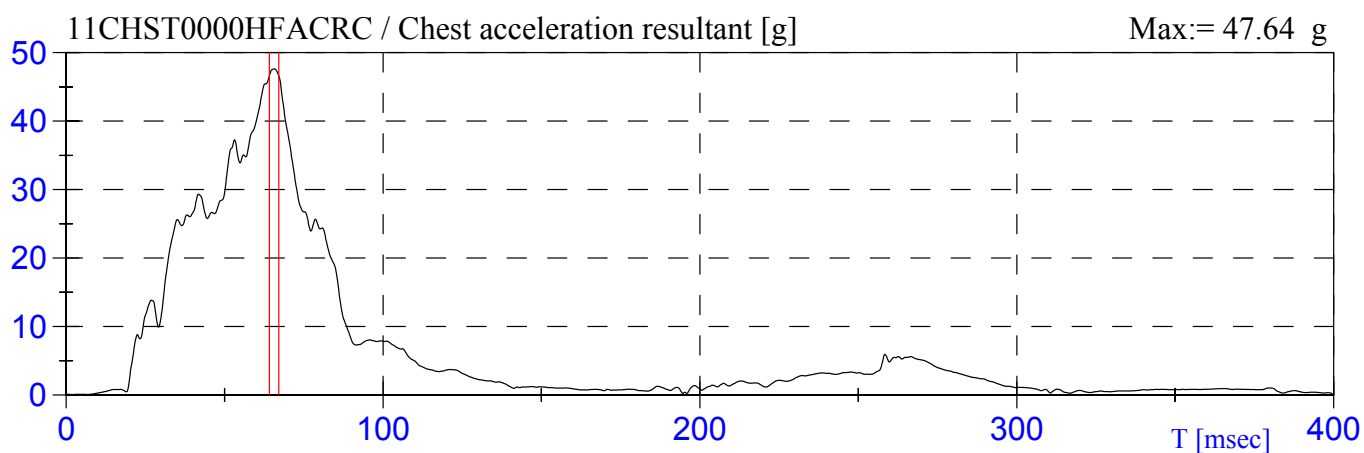






CLIP 3ms *

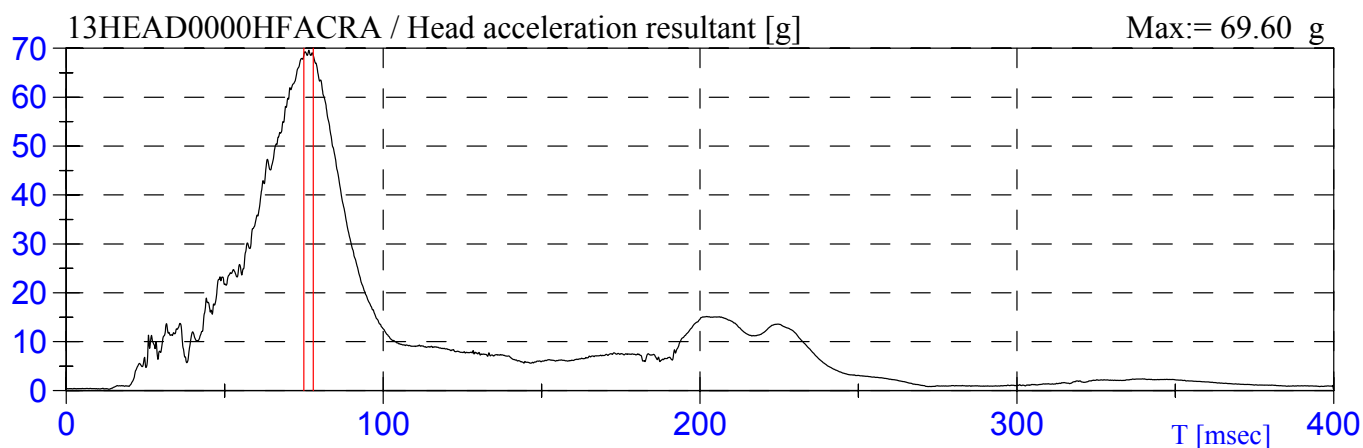
Acc. := 50.92 g	T1:= 51.9 ms	T2:= 54.9 ms
-----------------	--------------	--------------



CLIP 3ms *

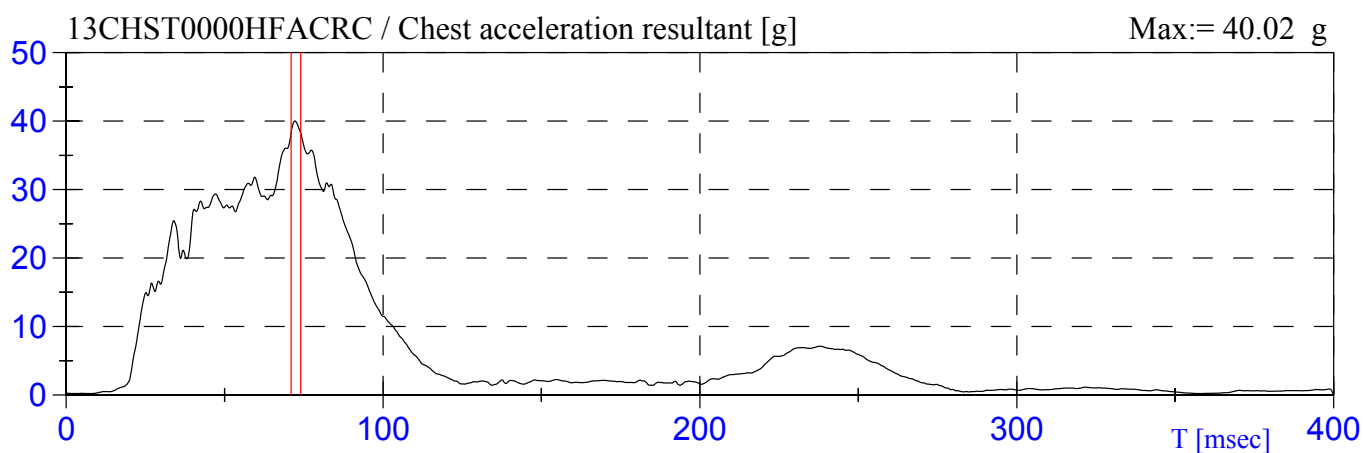
Acc. := 46.60 g	T1:= 64.1 ms	T2:= 67.1 ms
-----------------	--------------	--------------

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



CLIP 3ms *

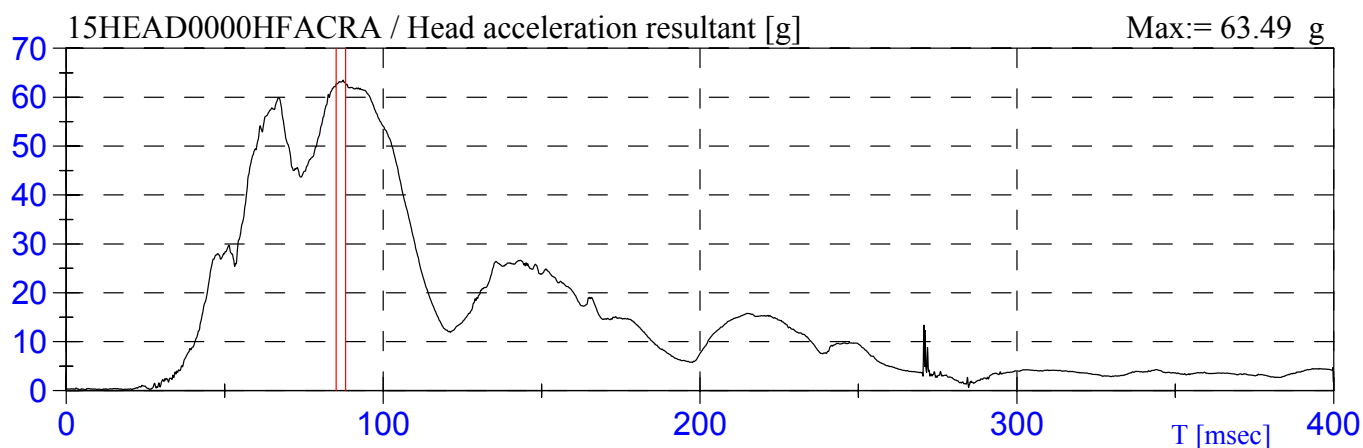
Acc. := 68.53 g	T1:= 75.0 ms	T2:= 78.0 ms
-----------------	--------------	--------------



CLIP 3ms *

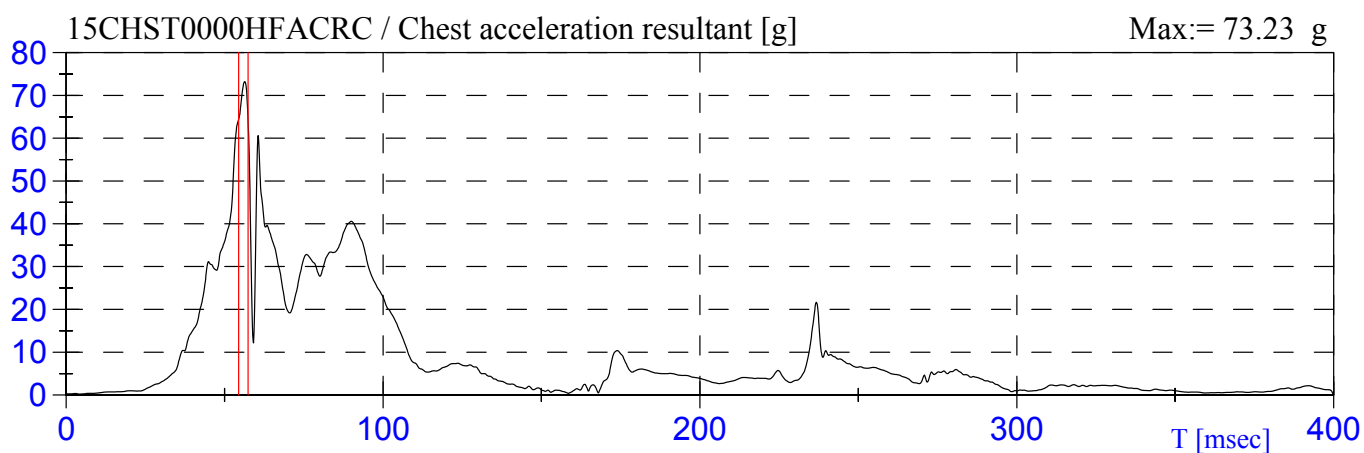
Acc. := 38.28 g	T1:= 71.0 ms	T2:= 74.0 ms
-----------------	--------------	--------------

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



CLIP 3ms *

Acc. := 62.70 g	T1:= 85.1 ms	T2:= 88.1 ms
-----------------	--------------	--------------



CLIP 3ms *

Acc. := 64.34 g	T1:= 54.4 ms	T2:= 57.4 ms
-----------------	--------------	--------------

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

COMMENTAIRES / COMMENTS

11PELV0000HFACZA: Transitoire réparé de 92.9 ms à 104.3 ms.
Glitch removed from 92.9 ms to 104.3 ms.

APPENDICE /APPENDIX C

**DONNÉES DES TEMPÉRATURES
TEMPERATURE DATA**

Temperature TC05-218

