

WorldSID-50M
RibEye Crash Test Report
Exemplar Data File

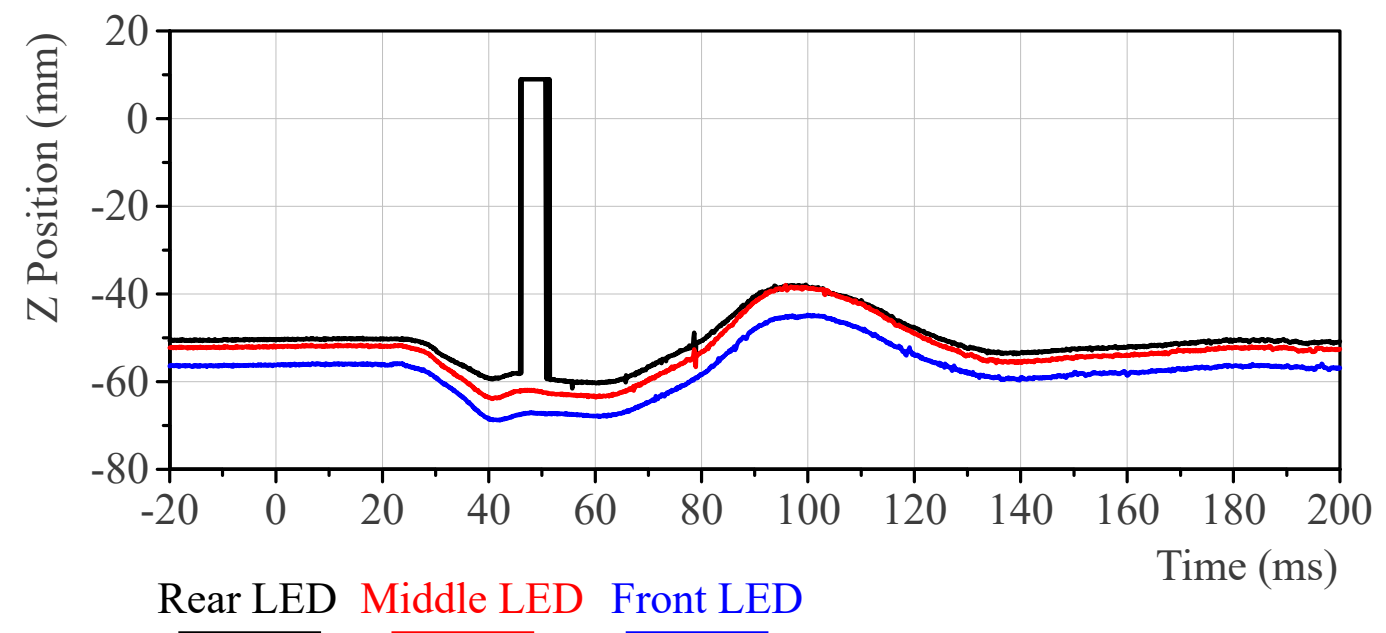
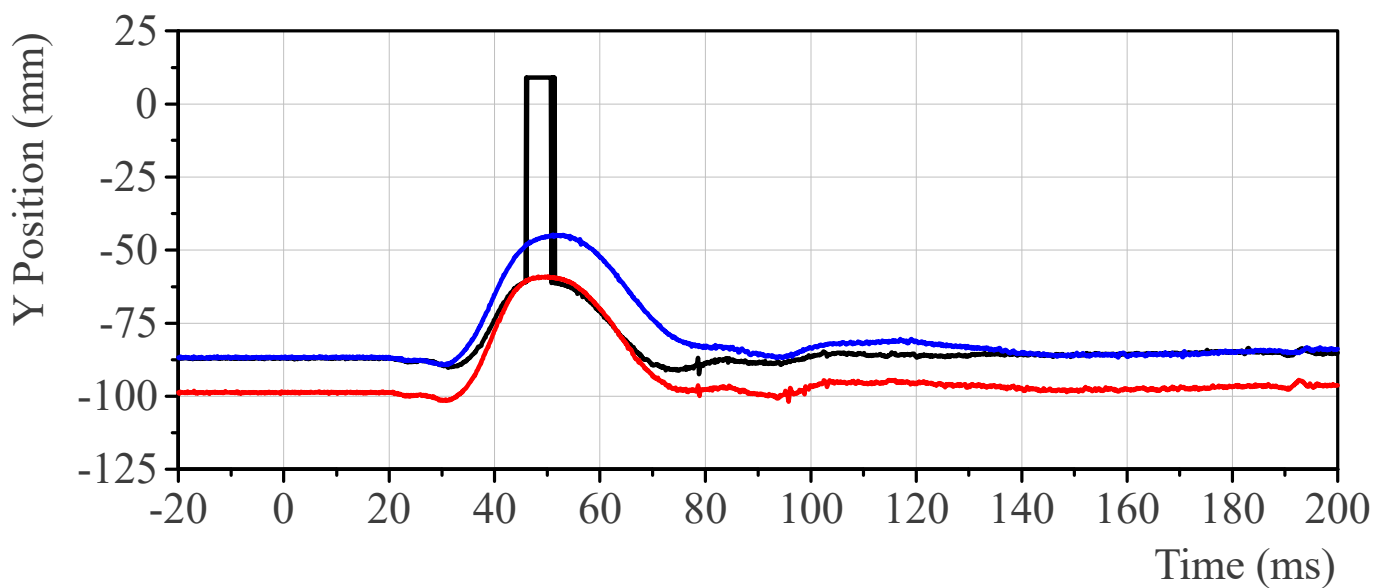
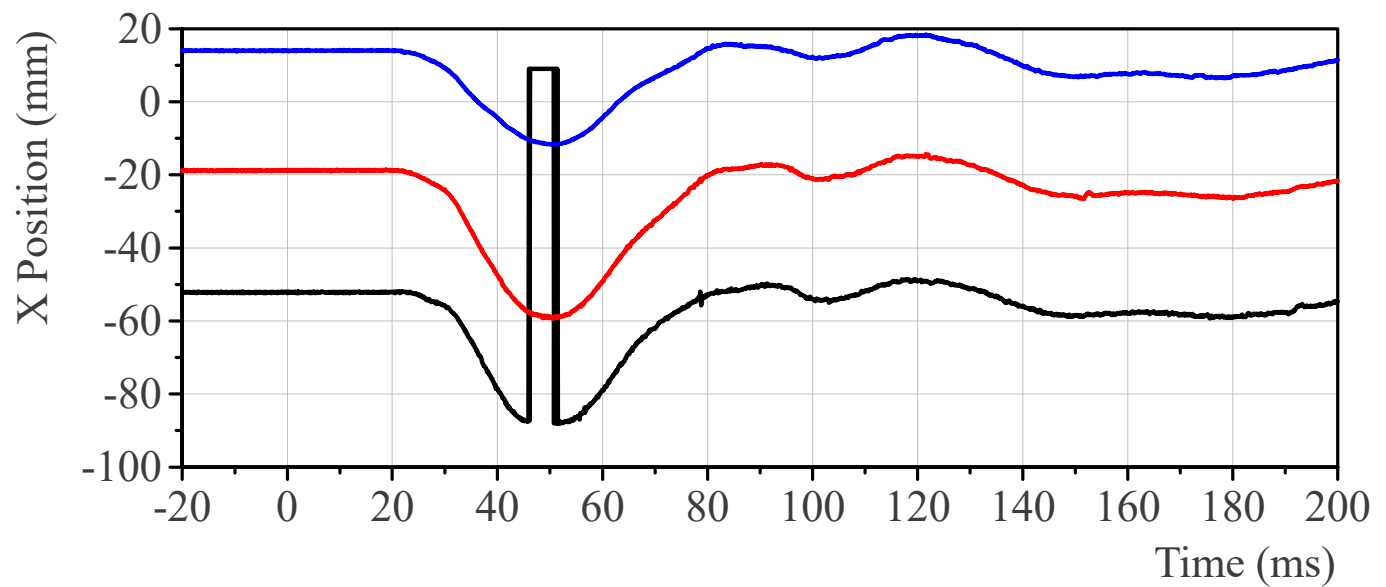
Error Code and Maximum Length Change Summary

Rib	LED	Error Code	Start Time (ms)	End Time (ms)	Maximum Length Change (mm)	Time of Maximum Length Change (ms)
Shoulder	Rear	9	46.0	46.0	9	N/A
Shoulder	Rear	9	46.2	50.7	9	N/A
Shoulder	Rear	9	50.9	50.9	9	N/A
Shoulder	Rear	9	51.1	51.2	9	N/A
Shoulder	Rear	9	51.4	51.4	9	N/A
Shoulder	Middle	None	N/A	N/A	27.9	48.2
Shoulder	Front	None	N/A	N/A	47.4	51.0
Thorax 1	Rear	None	N/A	N/A	24	47.6
Thorax 1	Middle	None	N/A	N/A	48.5	47.8
Thorax 1	Front	None	N/A	N/A	54	51.1
Thorax 2	Rear	None	N/A	N/A	24.9	47.6
Thorax 2	Middle	None	N/A	N/A	43.9	47.1
Thorax 2	Front	None	N/A	N/A	44.2	49.1
Thorax 3	Rear	None	N/A	N/A	27.4	48.4
Thorax 3	Middle	None	N/A	N/A	39.9	47.7
Thorax 3	Front	None	N/A	N/A	29.8	48.7
Abdomen 1	Rear	None	N/A	N/A	28.8	48.4
Abdomen 1	Middle	None	N/A	N/A	39.1	47.5
Abdomen 1	Front	None	N/A	N/A	27.7	46.5
Abdomen 2	Rear	None	N/A	N/A	34.9	48.4
Abdomen 2	Middle	None	N/A	N/A	52.2	47.6
Abdomen 2	Front	None	N/A	N/A	39	47.5

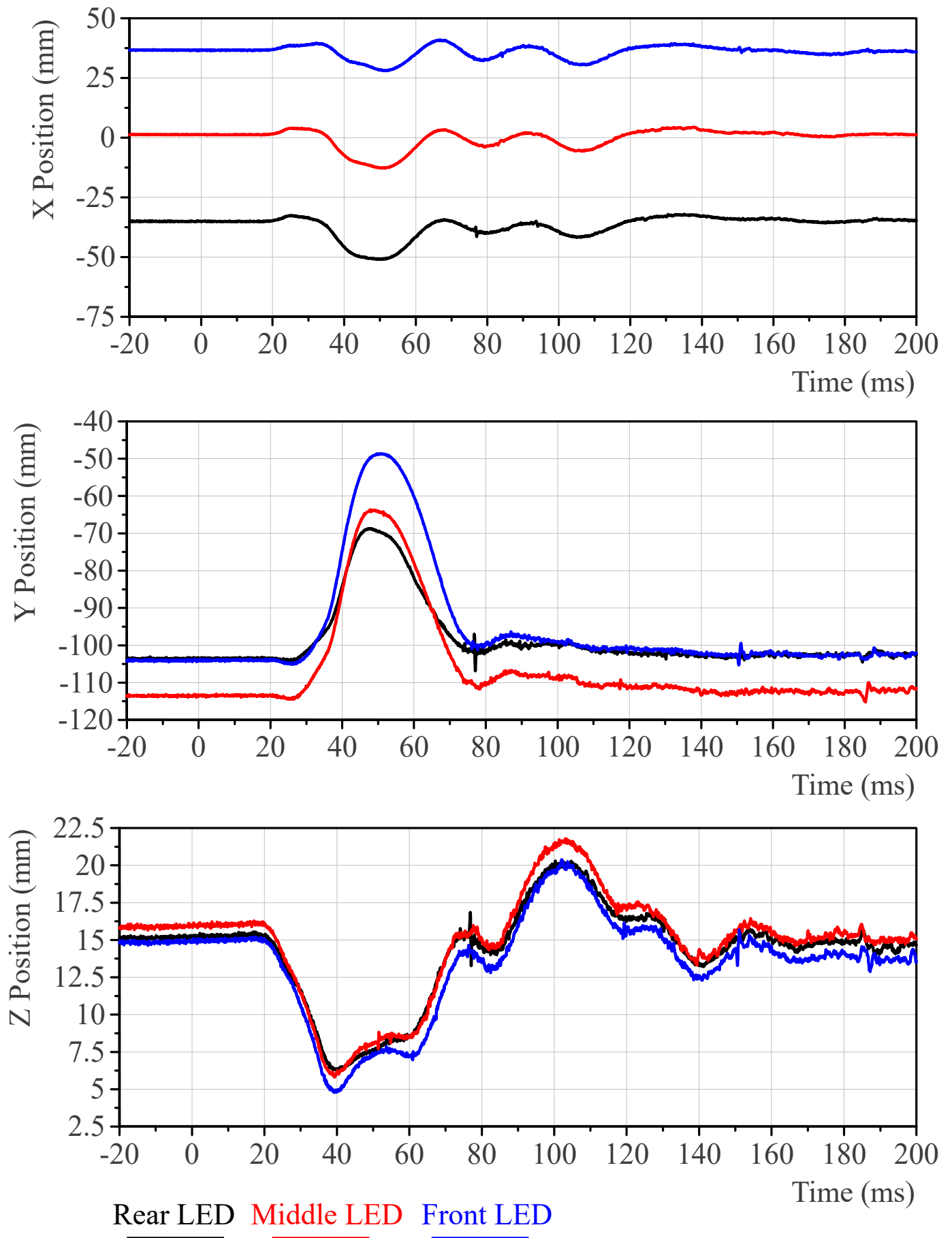
Maximum Shoulder Length Change	Shoulder Front LED	47.4 mm
Maximum Thorax Length Change	Thorax 1 Front LED	54.0 mm
Maximum Abdomen Length Change	Abdomen 2 Middle LED	52.2 mm

Error Code	Error Code Description
1	Top Sensor Blocked
2	Bottom Sensor Blocked
3	Top and Bottom Sensor Blocked
4	Middle Sensor Blocked
5	Middle and Top Sensor Blocked
6	Middle and Bottom Sensor Blocked
7	All Three Sensors Blocked
8	Divide-By-Zero Condition
9	LED Moved Out of Calibration Range

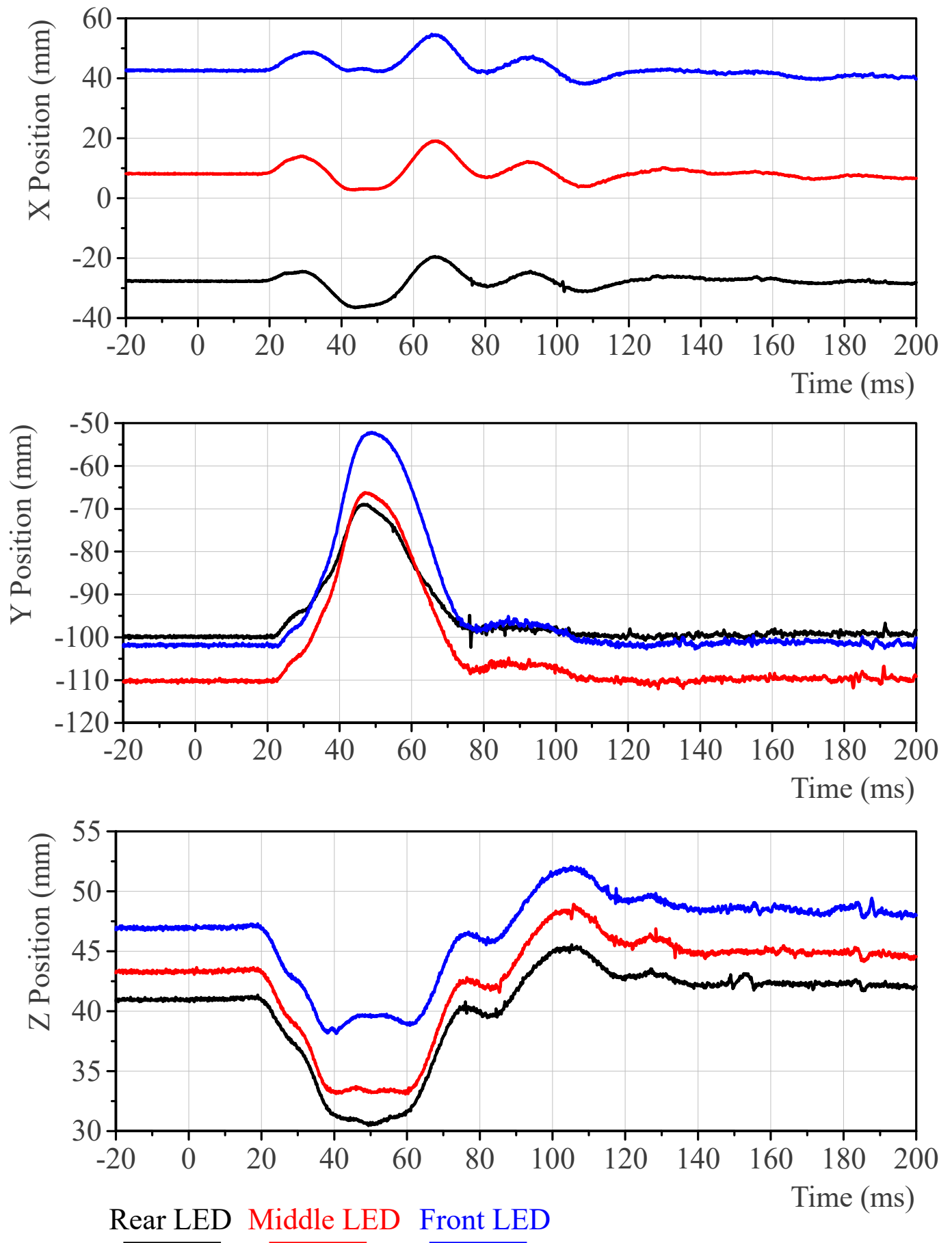
Shoulder Rib Absolute Position, Relative to Thorax Rib 1 Origin



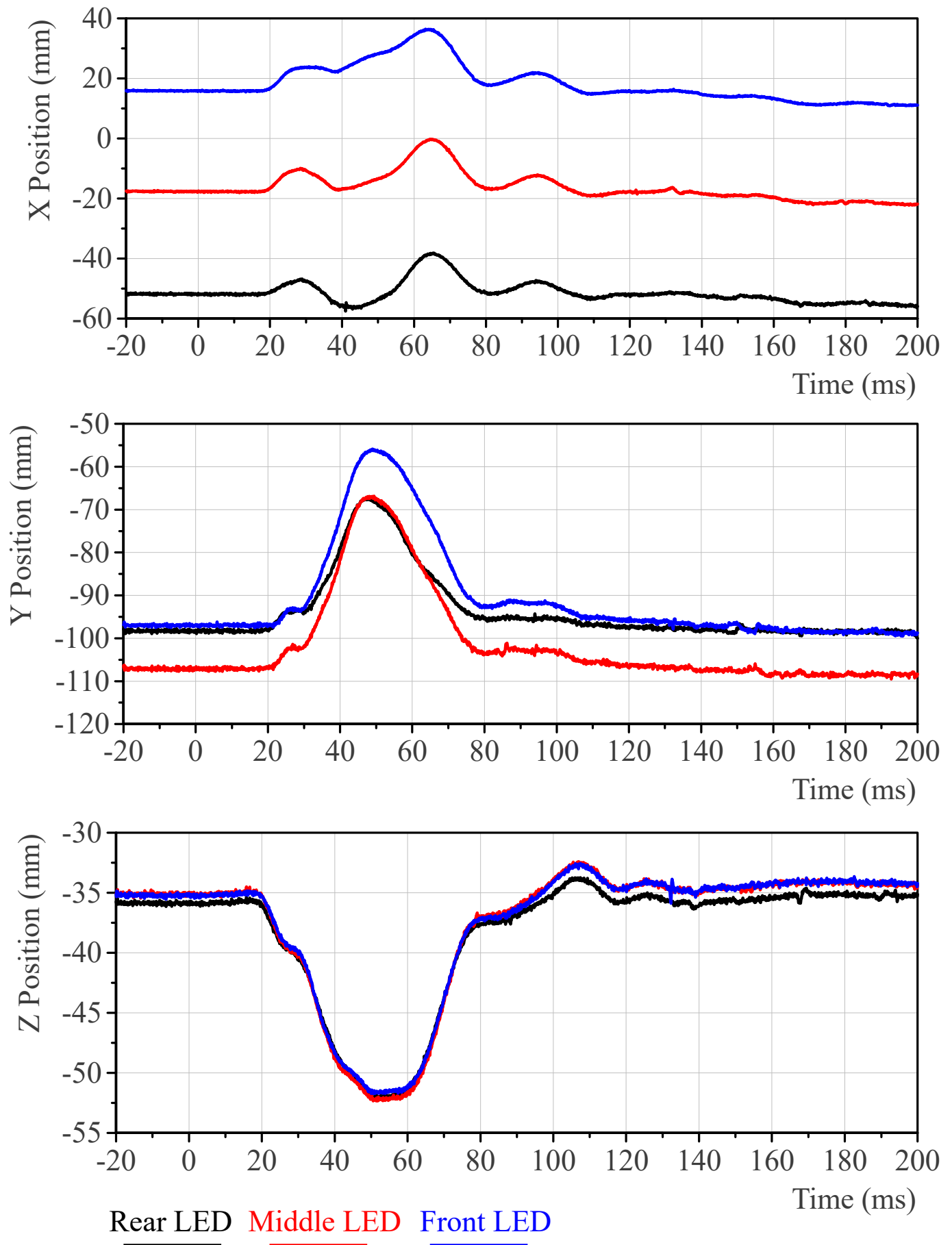
Thorax Rib 1 Absolute Position, Relative to Thorax Rib 1 Origin



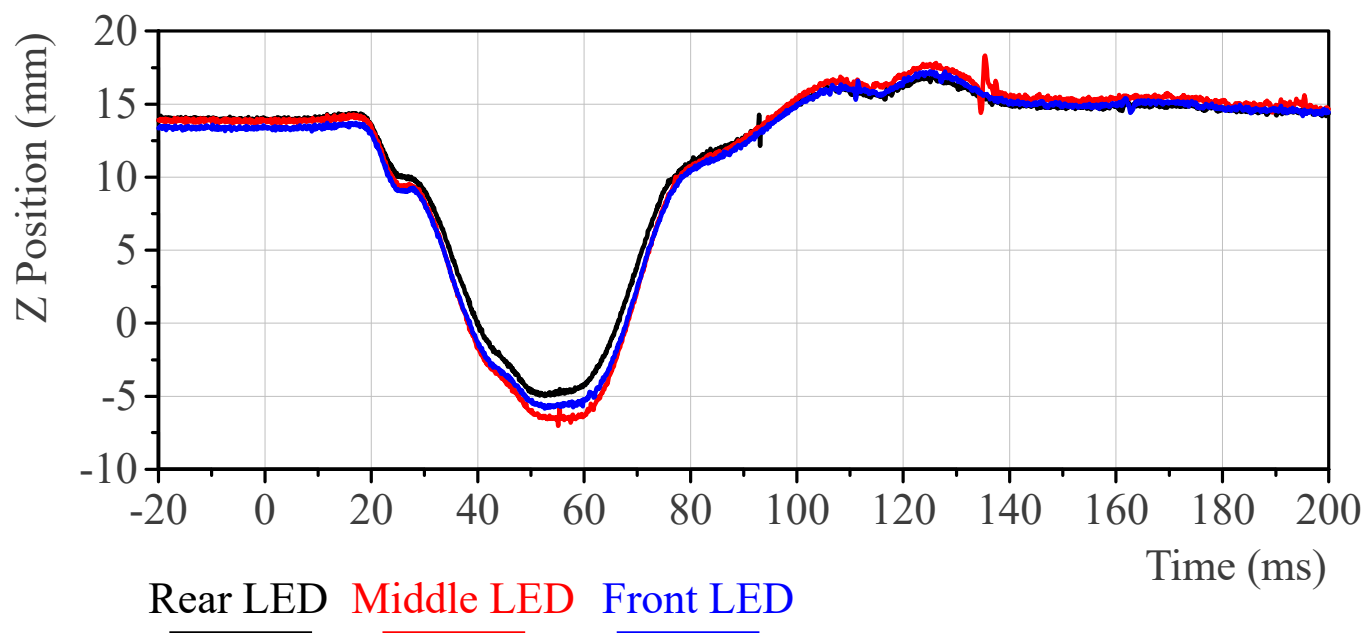
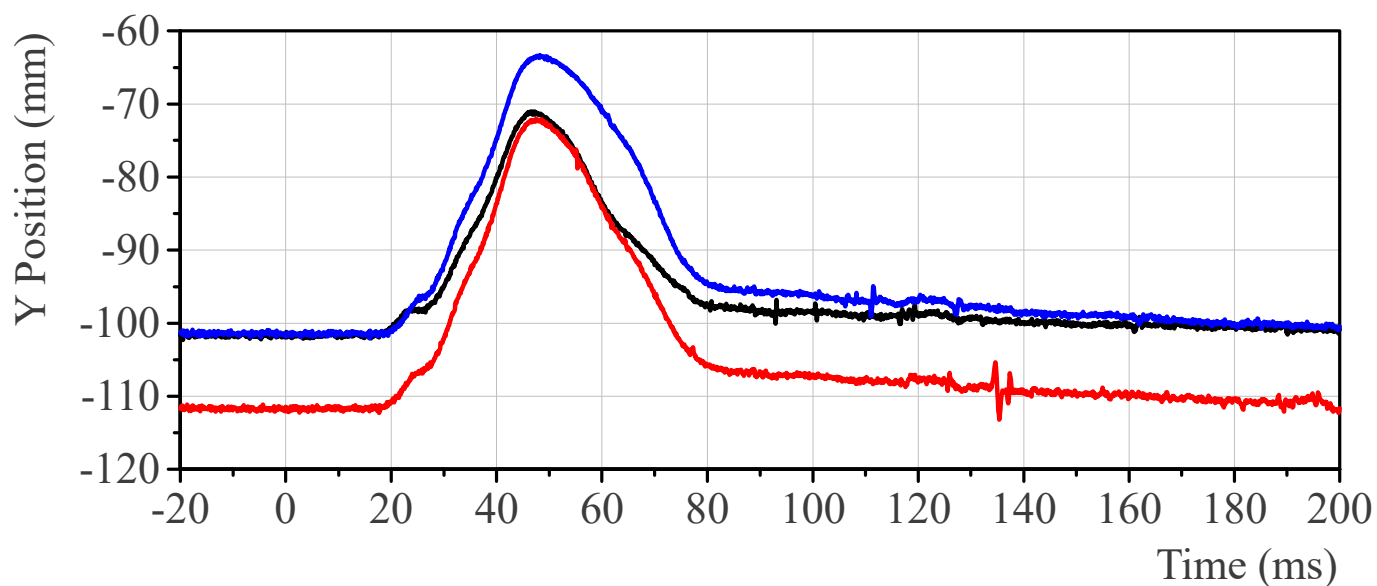
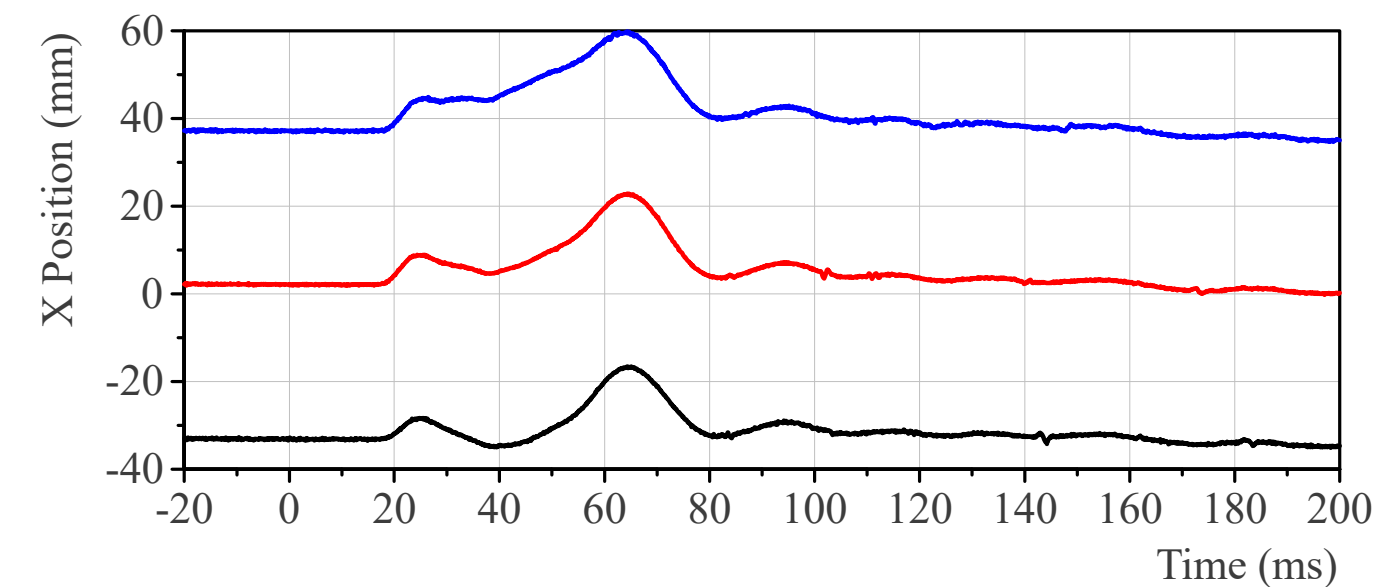
Thorax Rib 2 Absolute Position, Relative to Thorax Rib 1 Origin



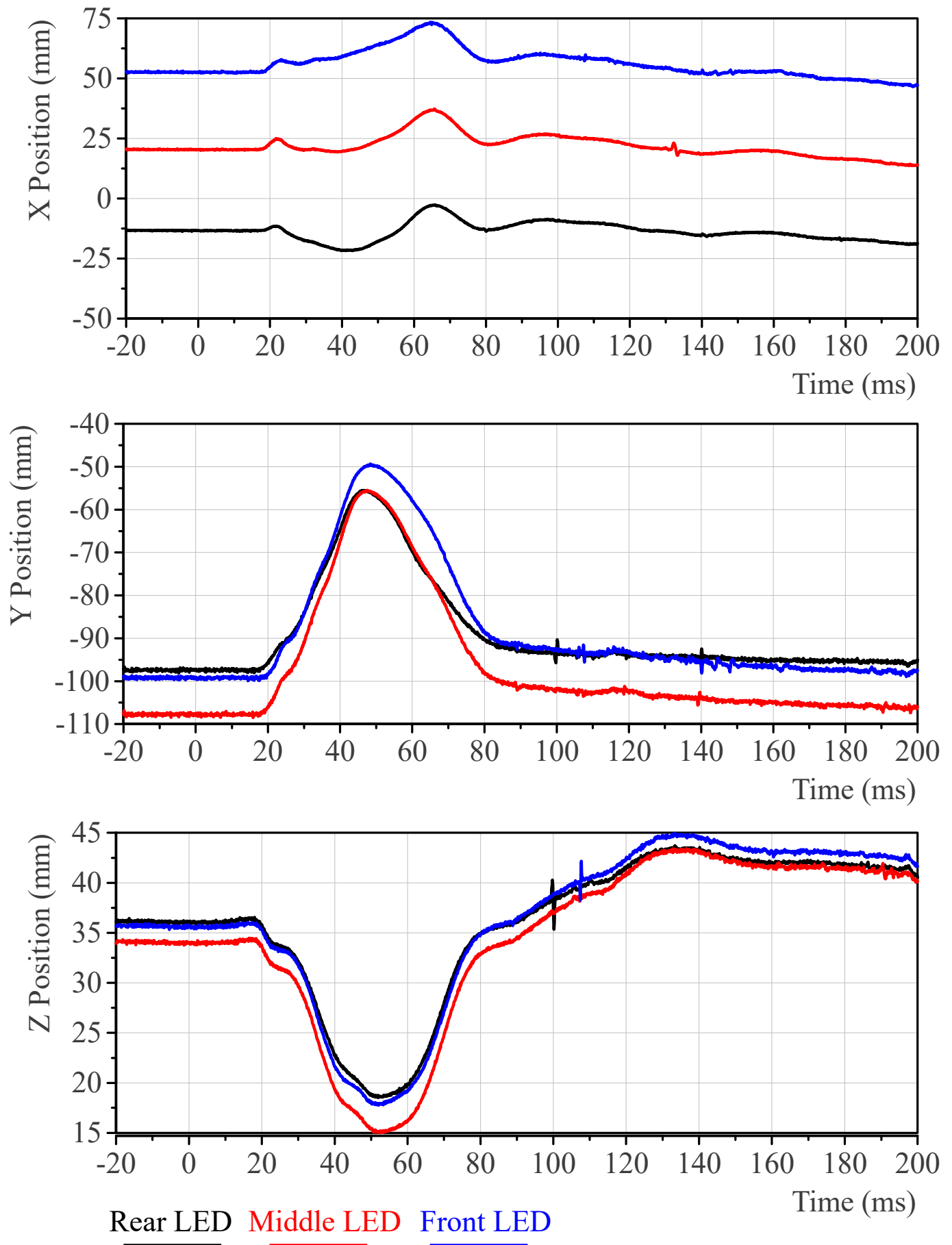
Thorax Rib 3 Absolute Position, Relative to Abdomen Rib 1 Origin



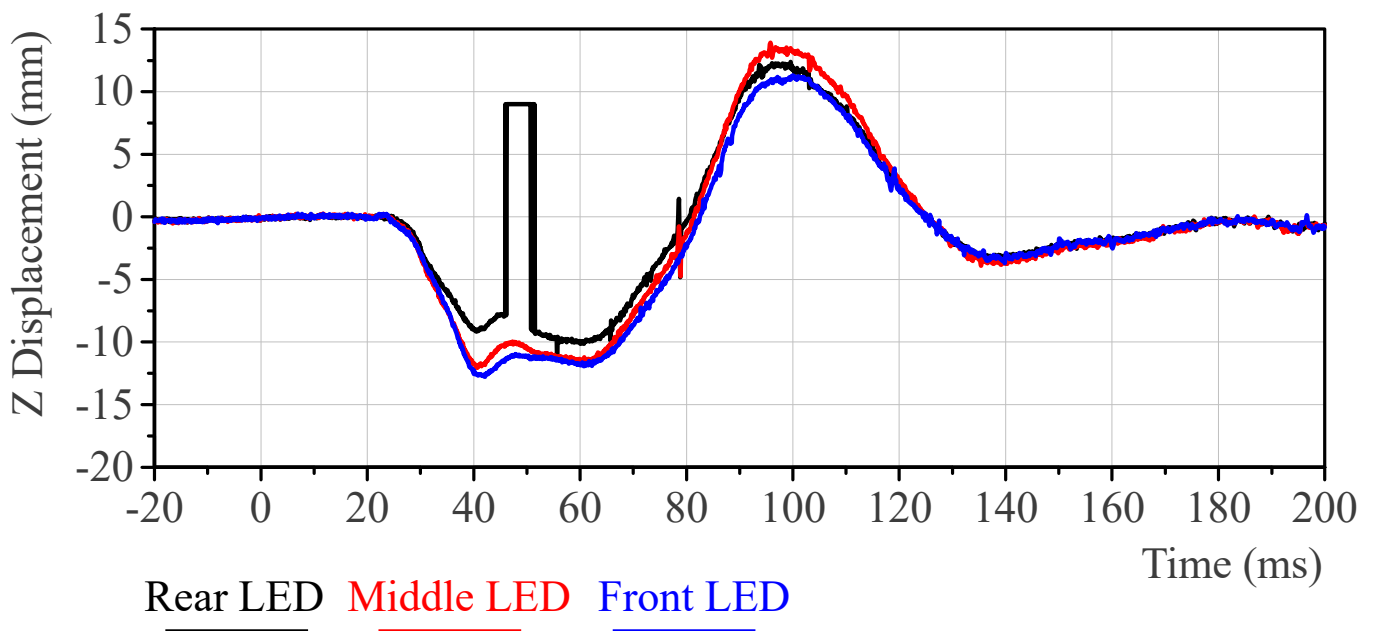
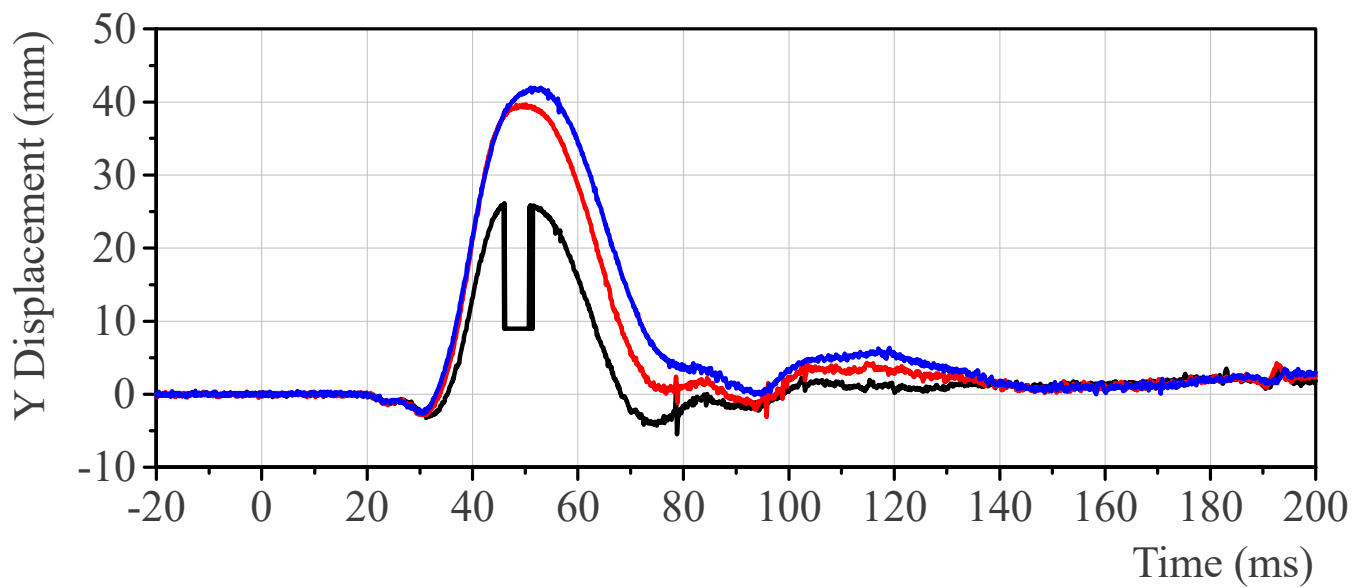
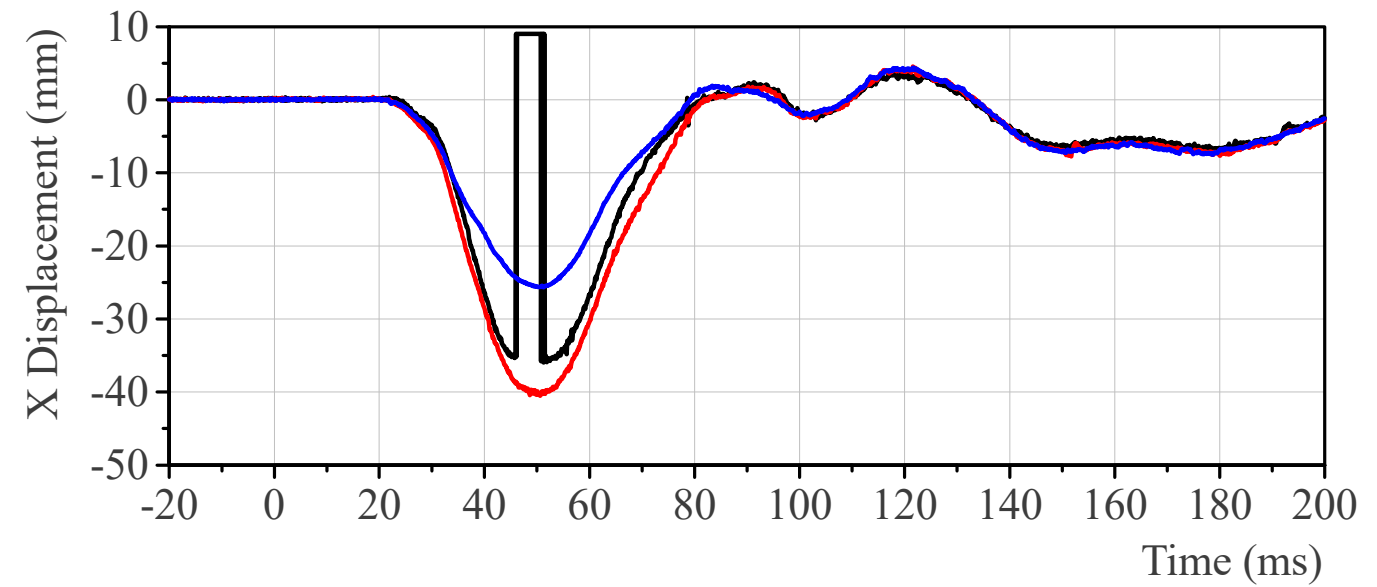
Abdomen Rib 1 Absolute Position, Relative to Abdomen Rib 1 Origin



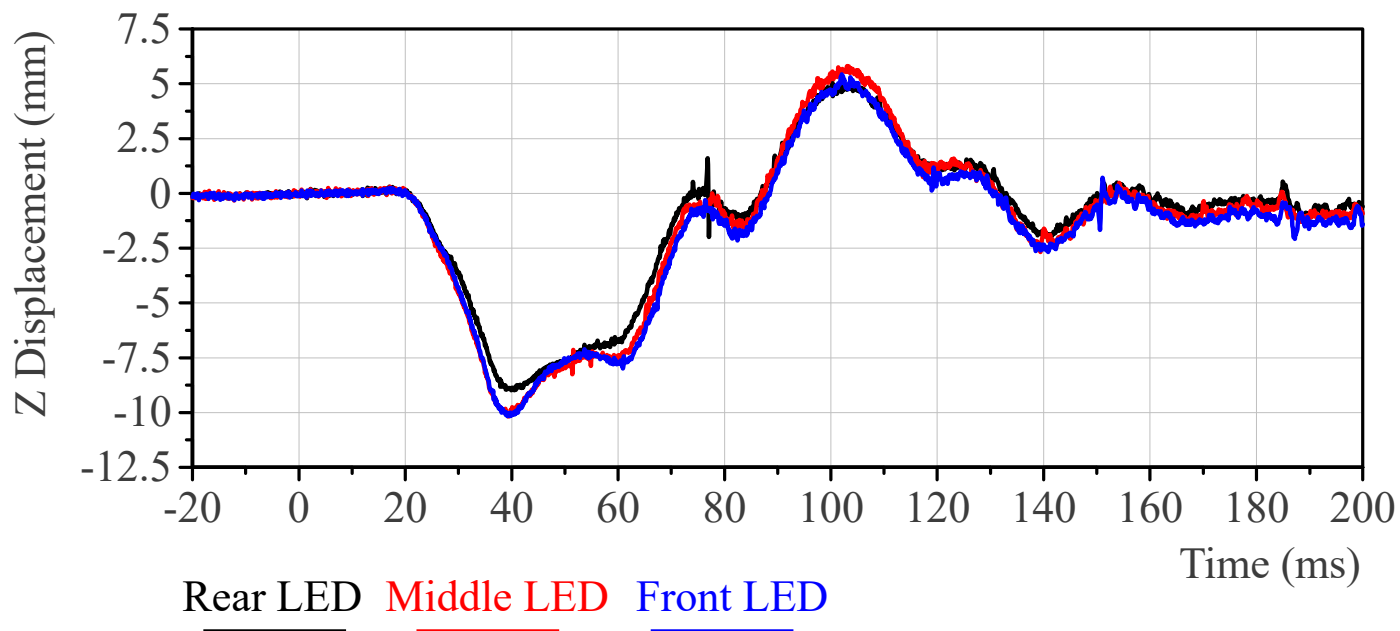
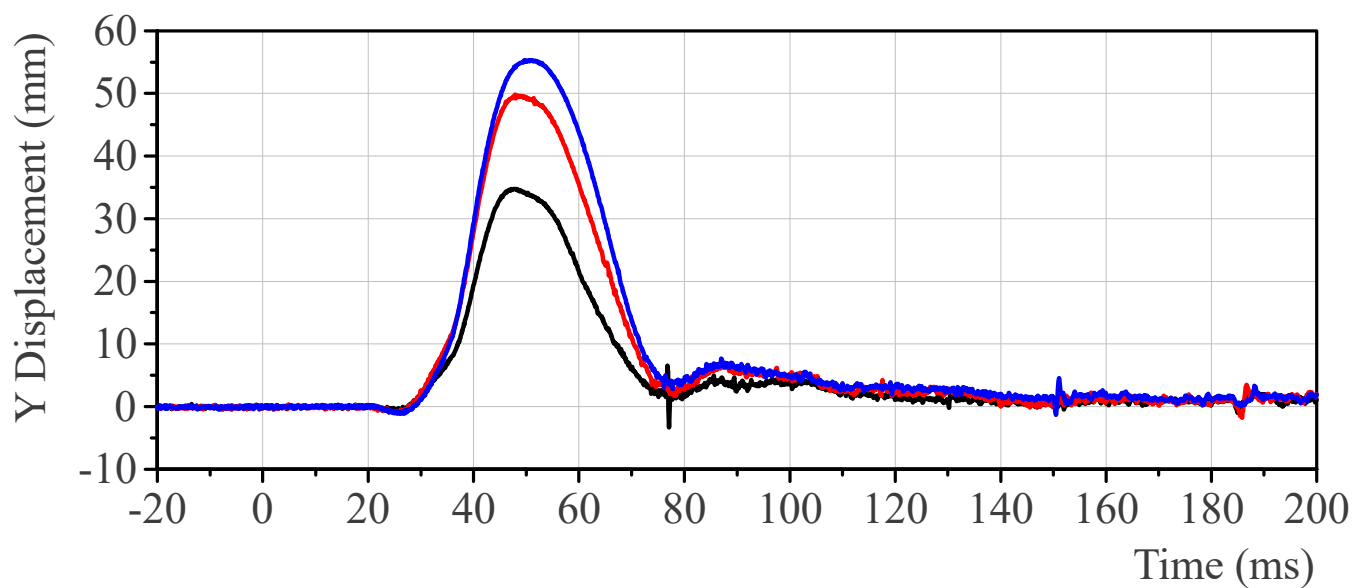
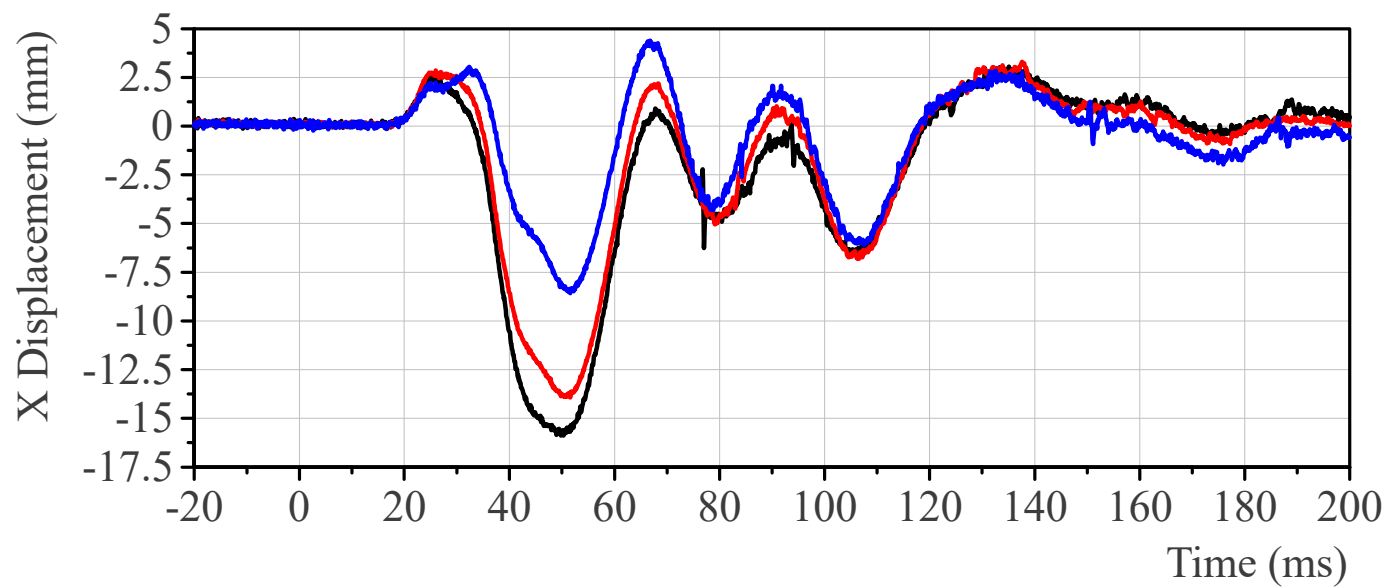
Abdomen Rib 2 Absolute Position, Relative to Abdomen Rib 1 Origin



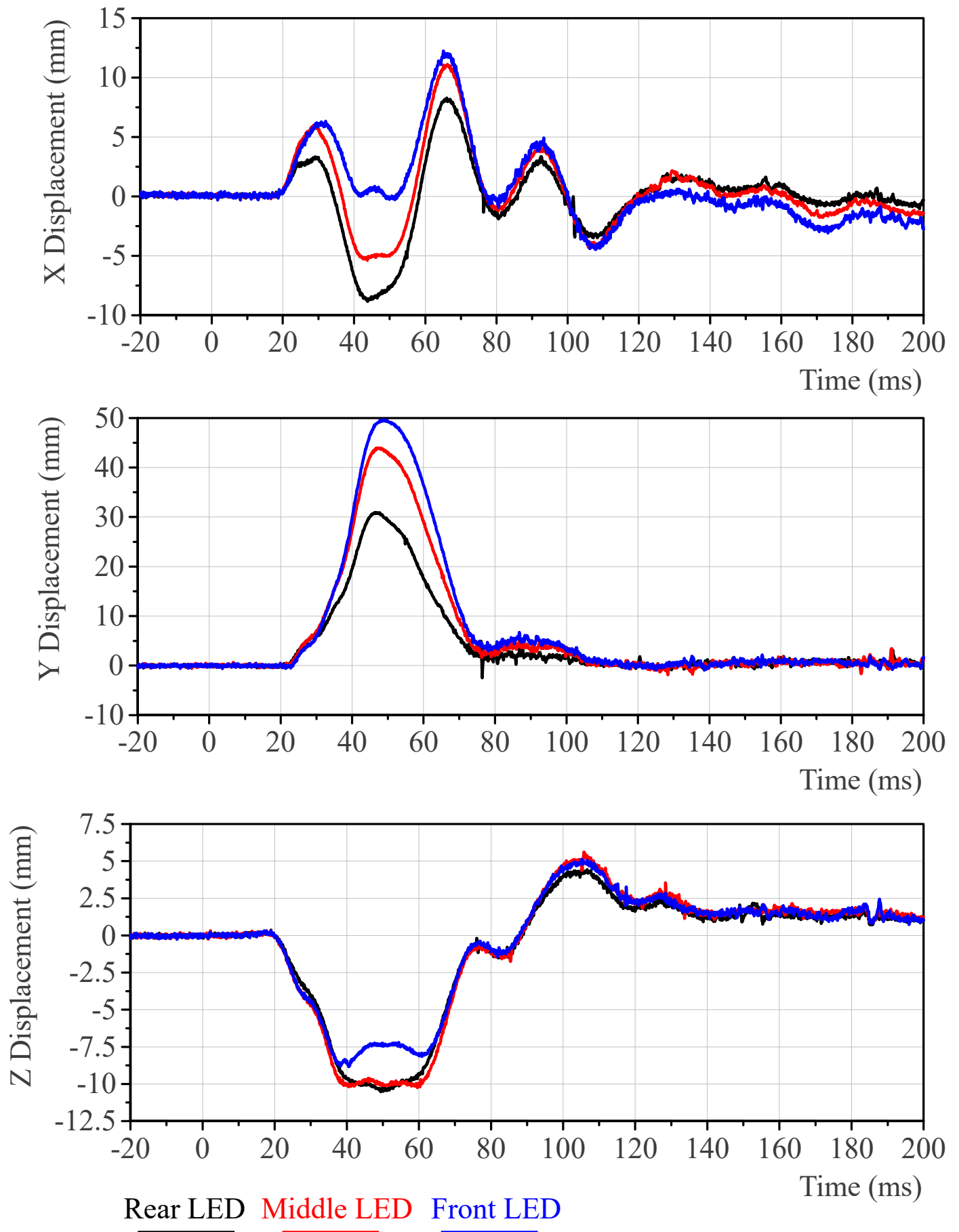
Shoulder Rib Relative Displacement



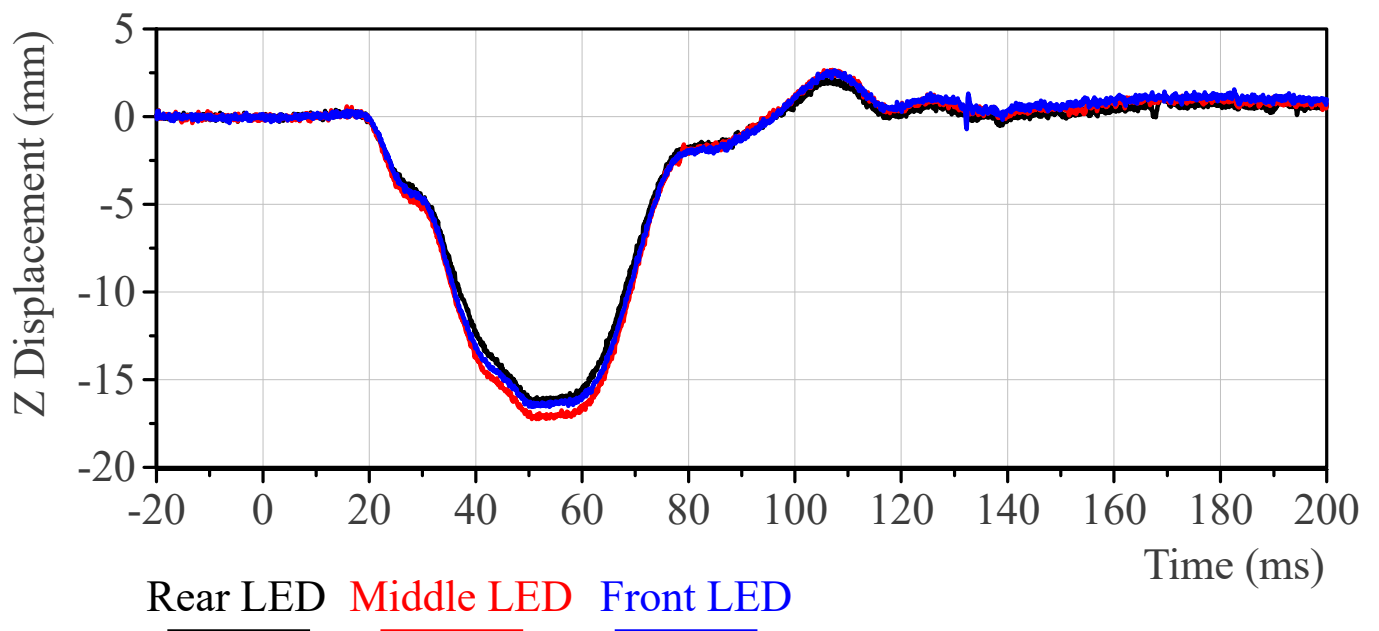
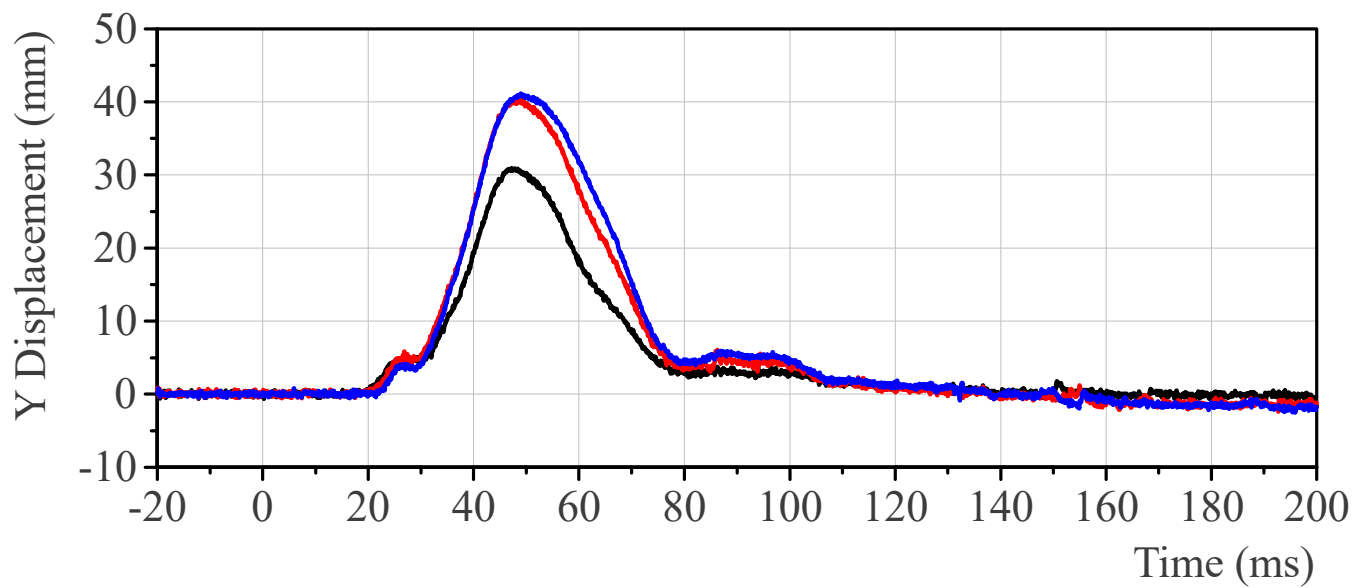
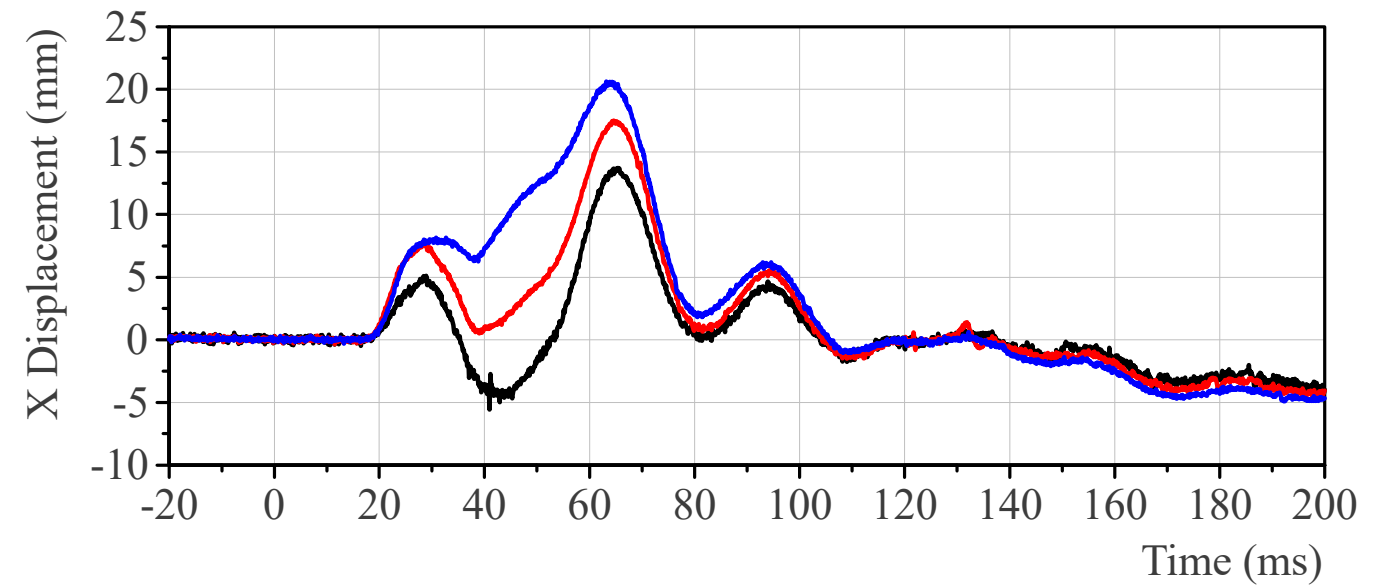
Thorax Rib 1 Relative Displacement



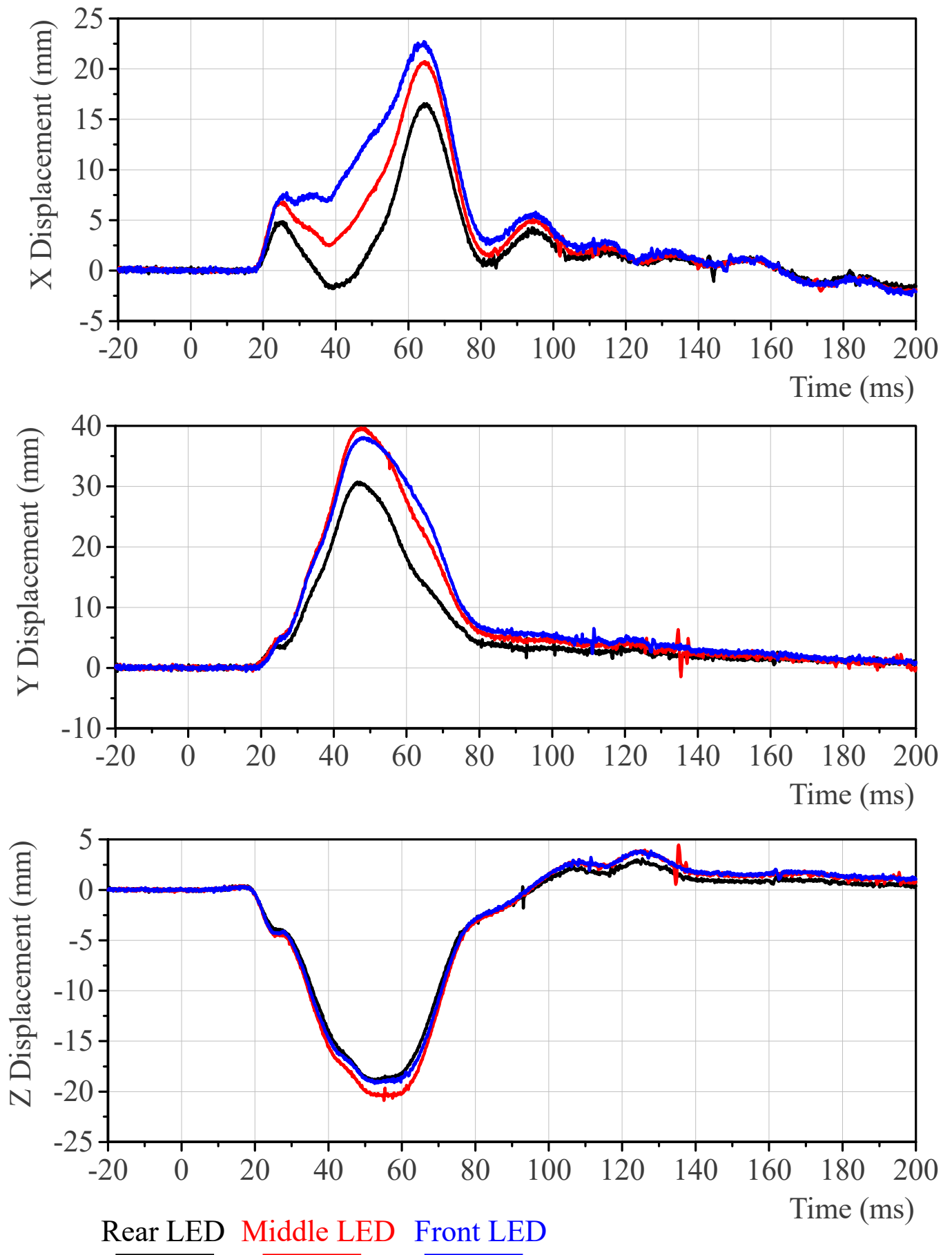
Thorax Rib 2 Relative Displacement



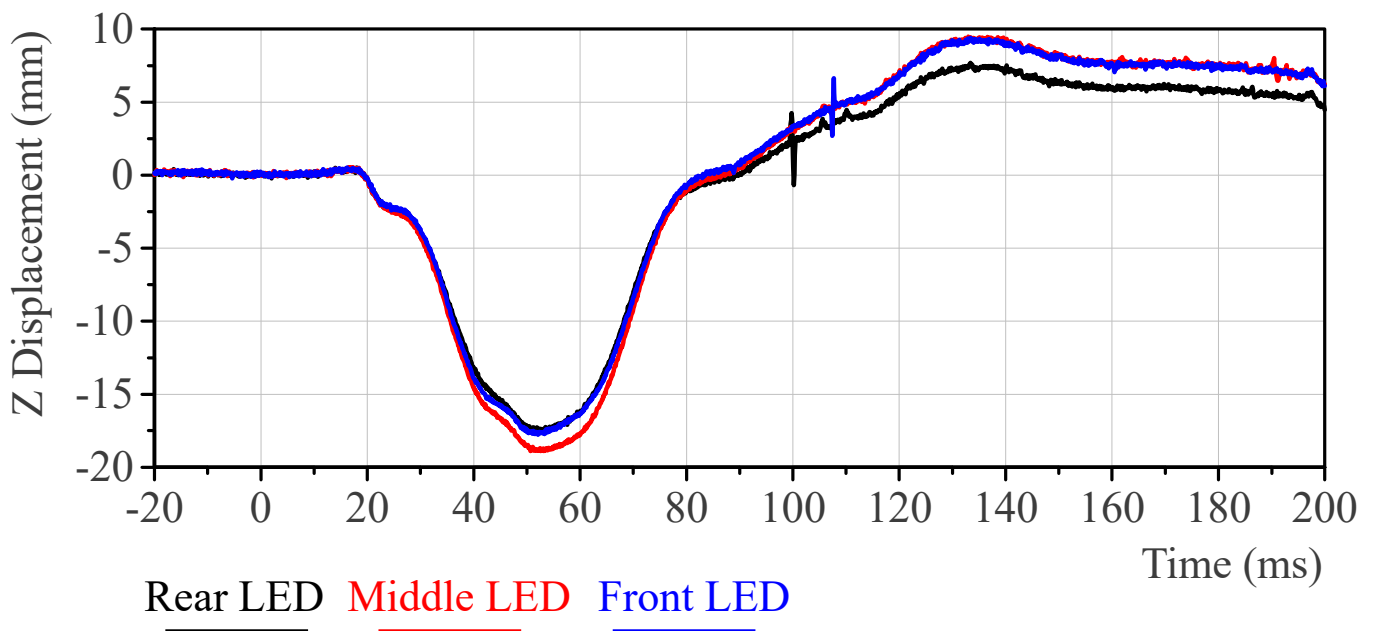
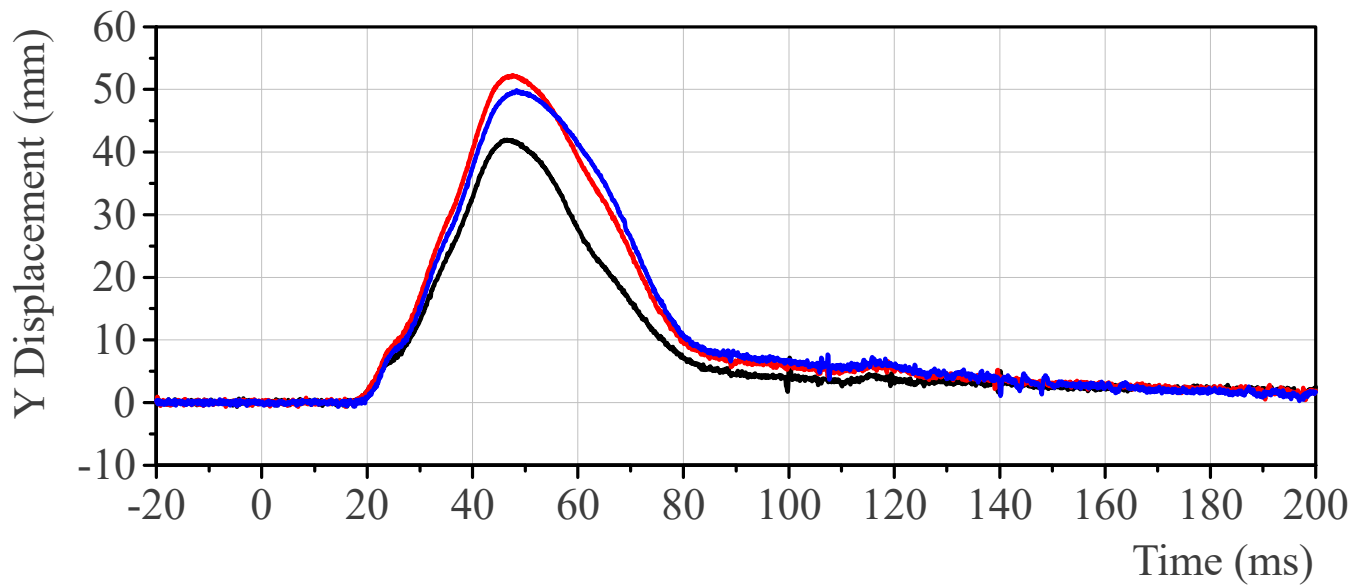
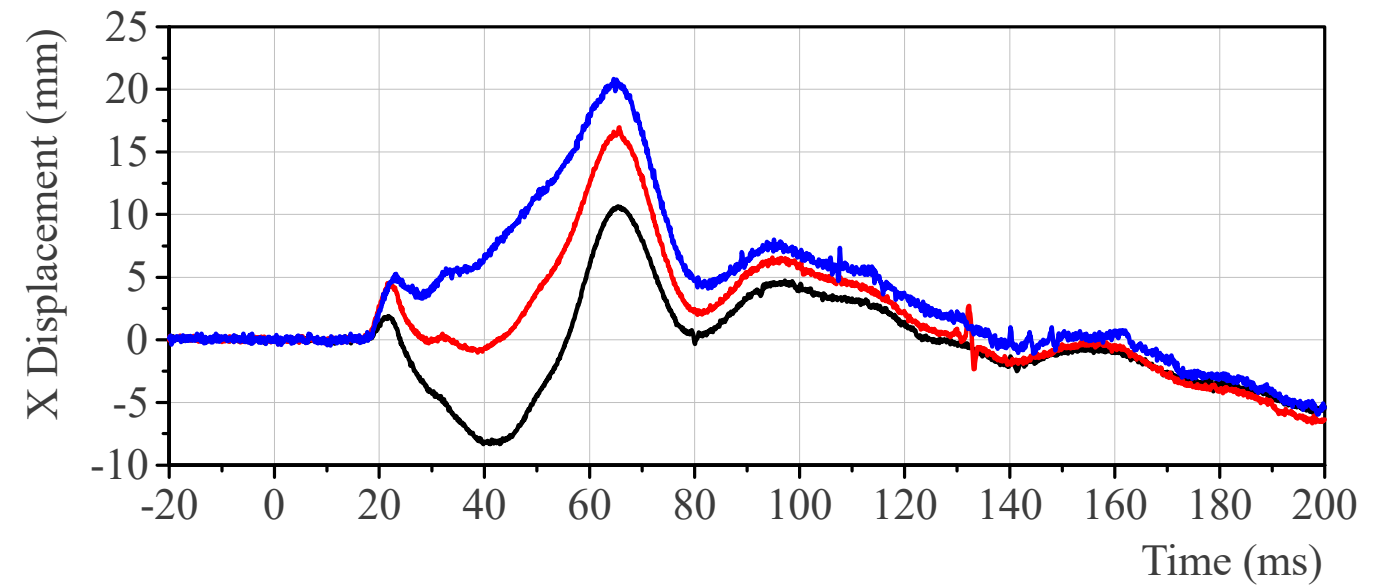
Thorax Rib 3 Relative Displacement



Abdomen Rib 1 Relative Displacement

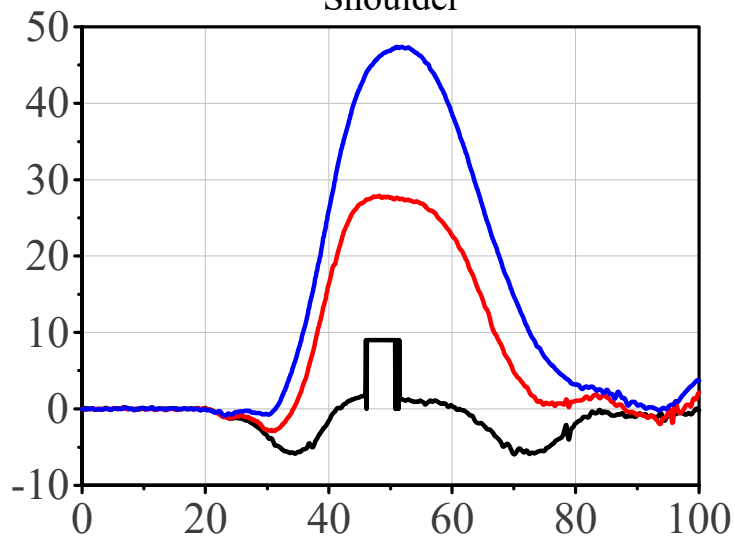


Abdomen Rib 2 Relative Displacement

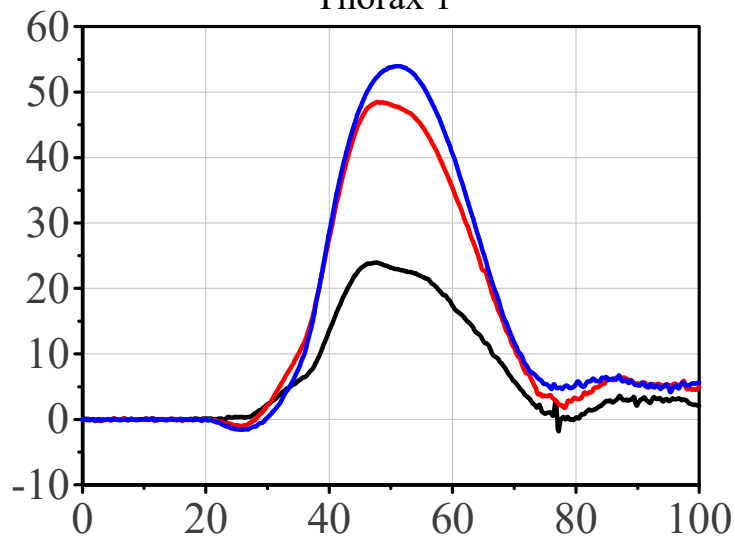


Rib Length Change (mm) vs. Time (ms)

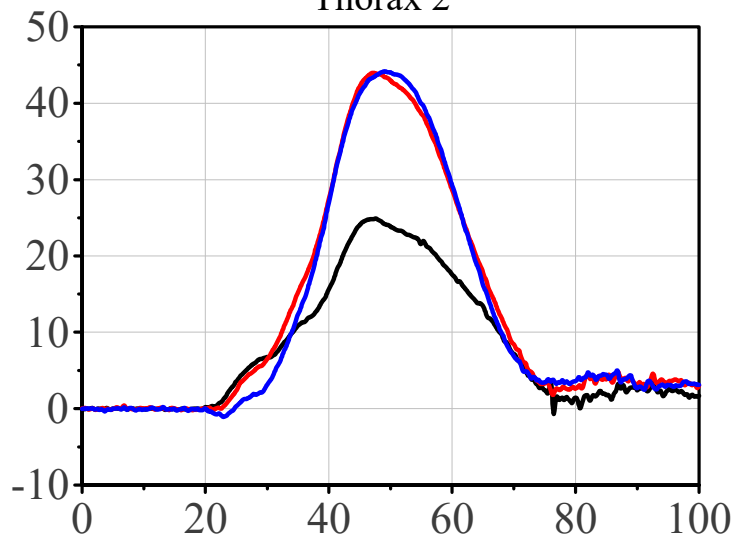
Shoulder



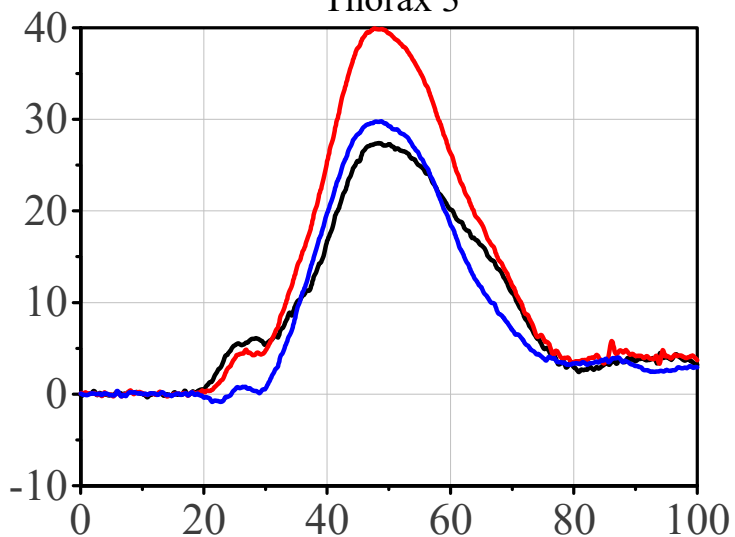
Thorax 1



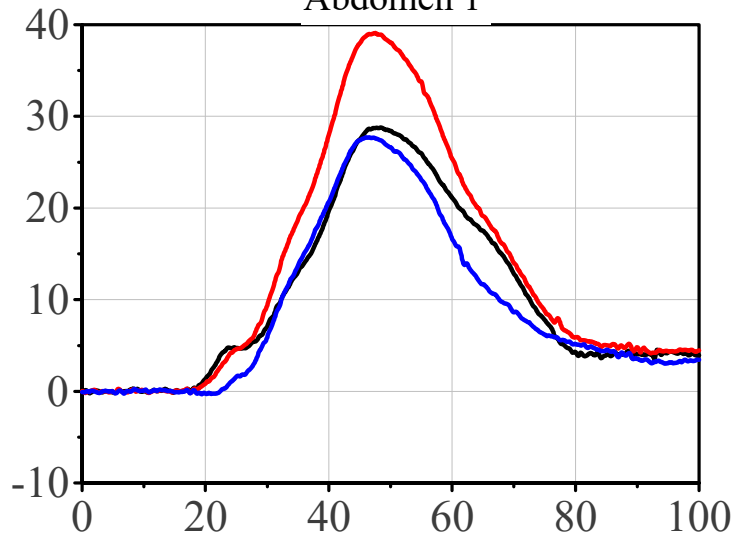
Thorax 2



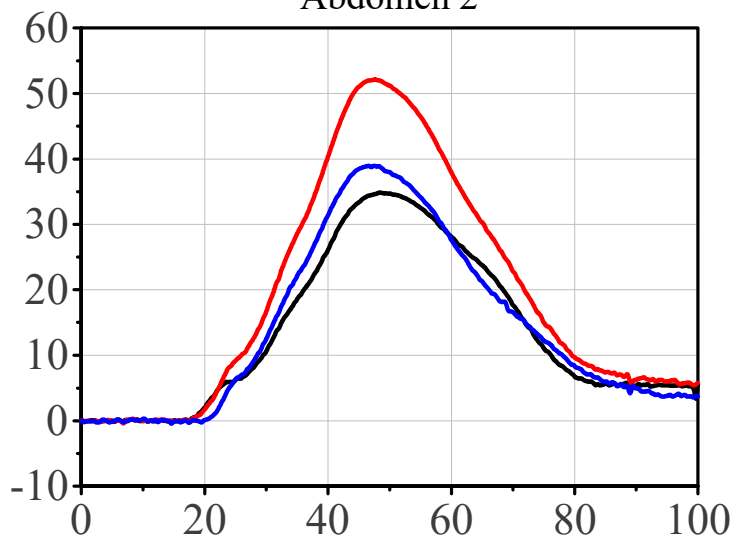
Thorax 3



Abdomen 1

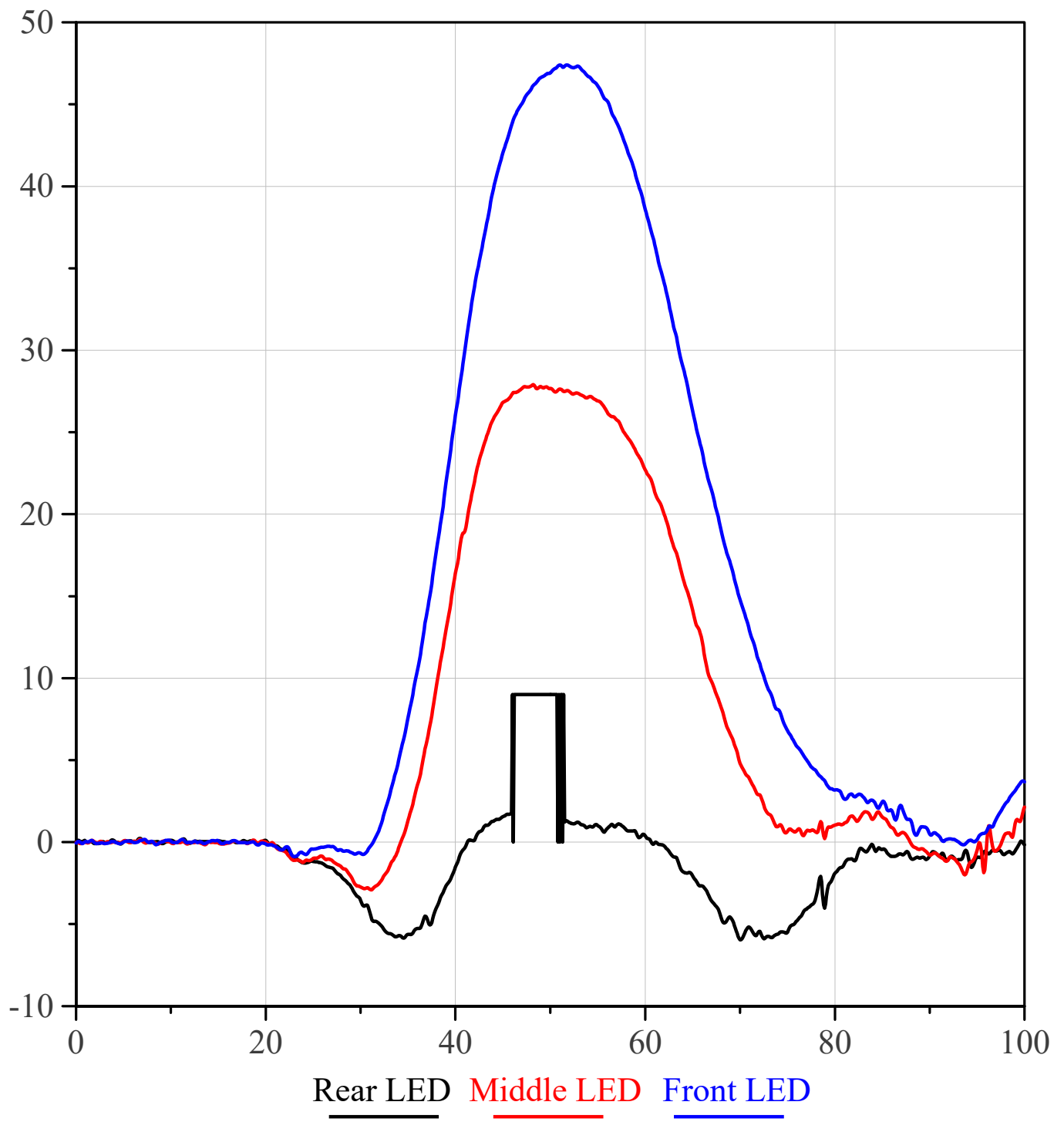


Abdomen 2

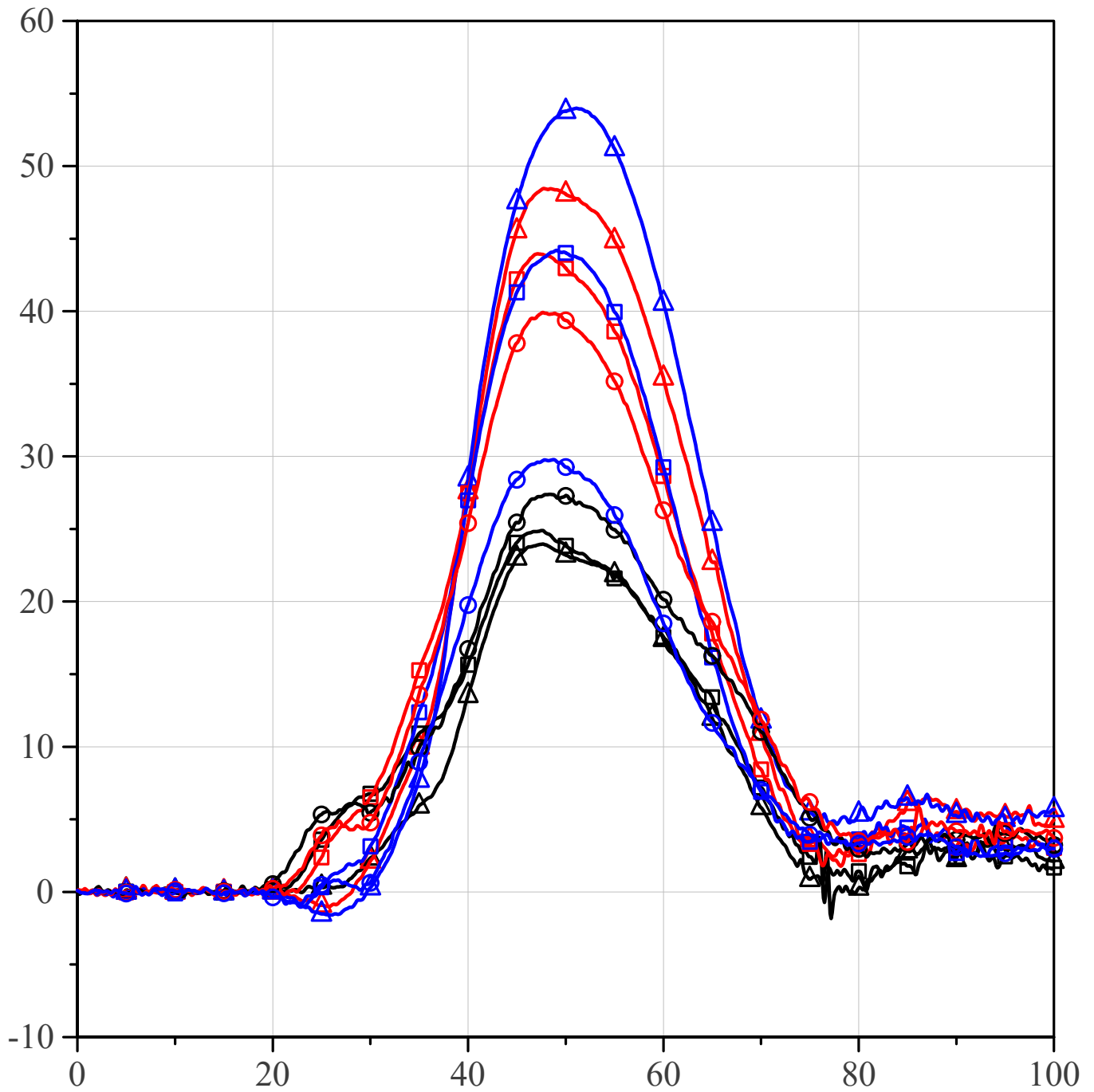


Rear LED Middle LED Front LED

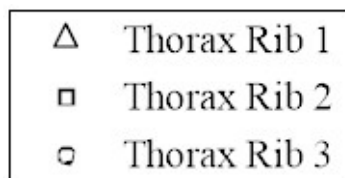
Shoulder Rib Length Change (mm) vs. Time (ms)



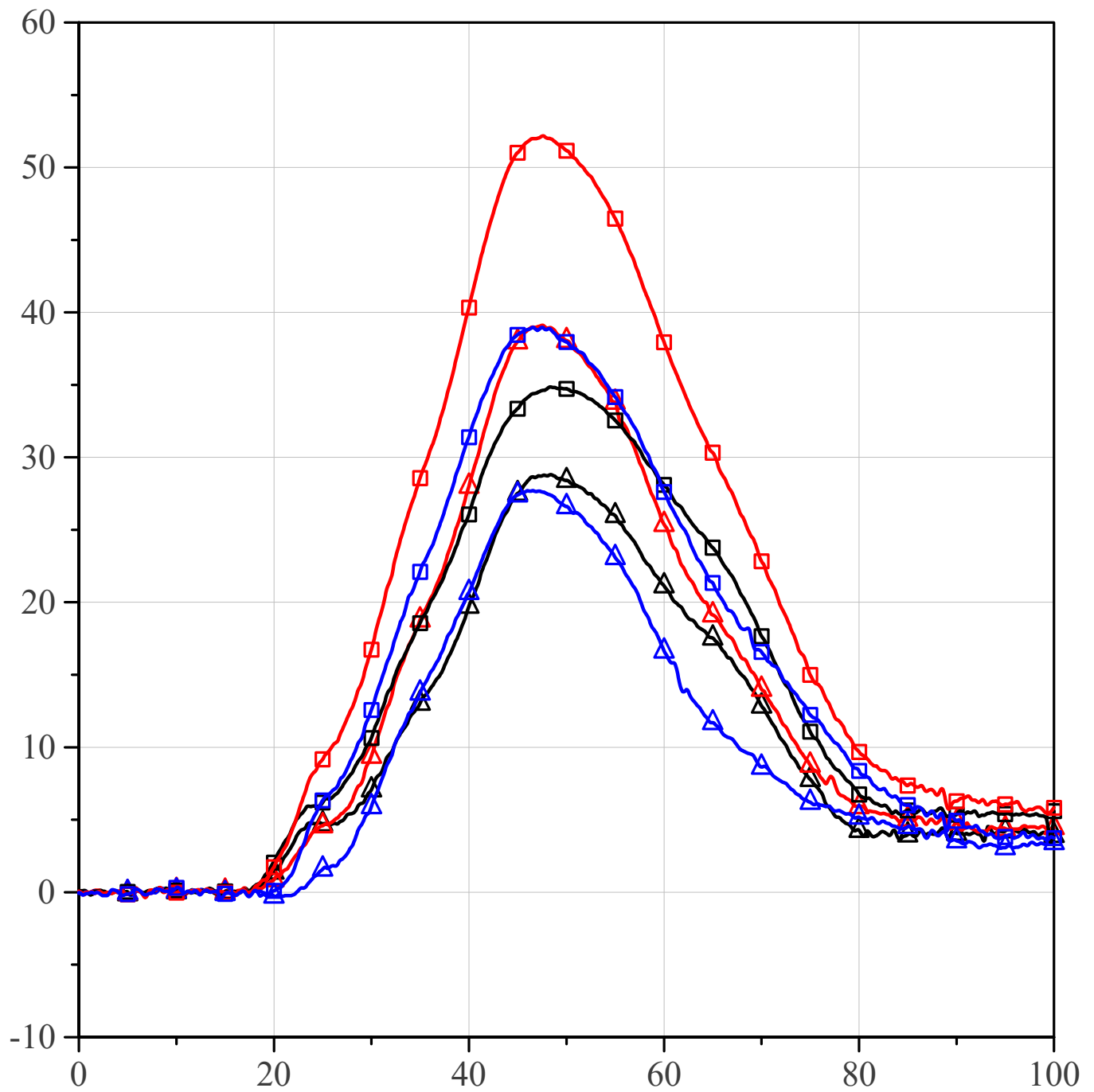
Thorax Rib Length Change (mm) vs. Time (ms)



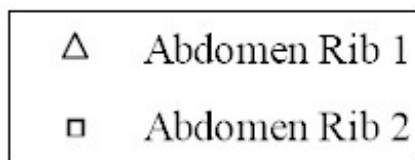
Rear LED Middle LED Front LED



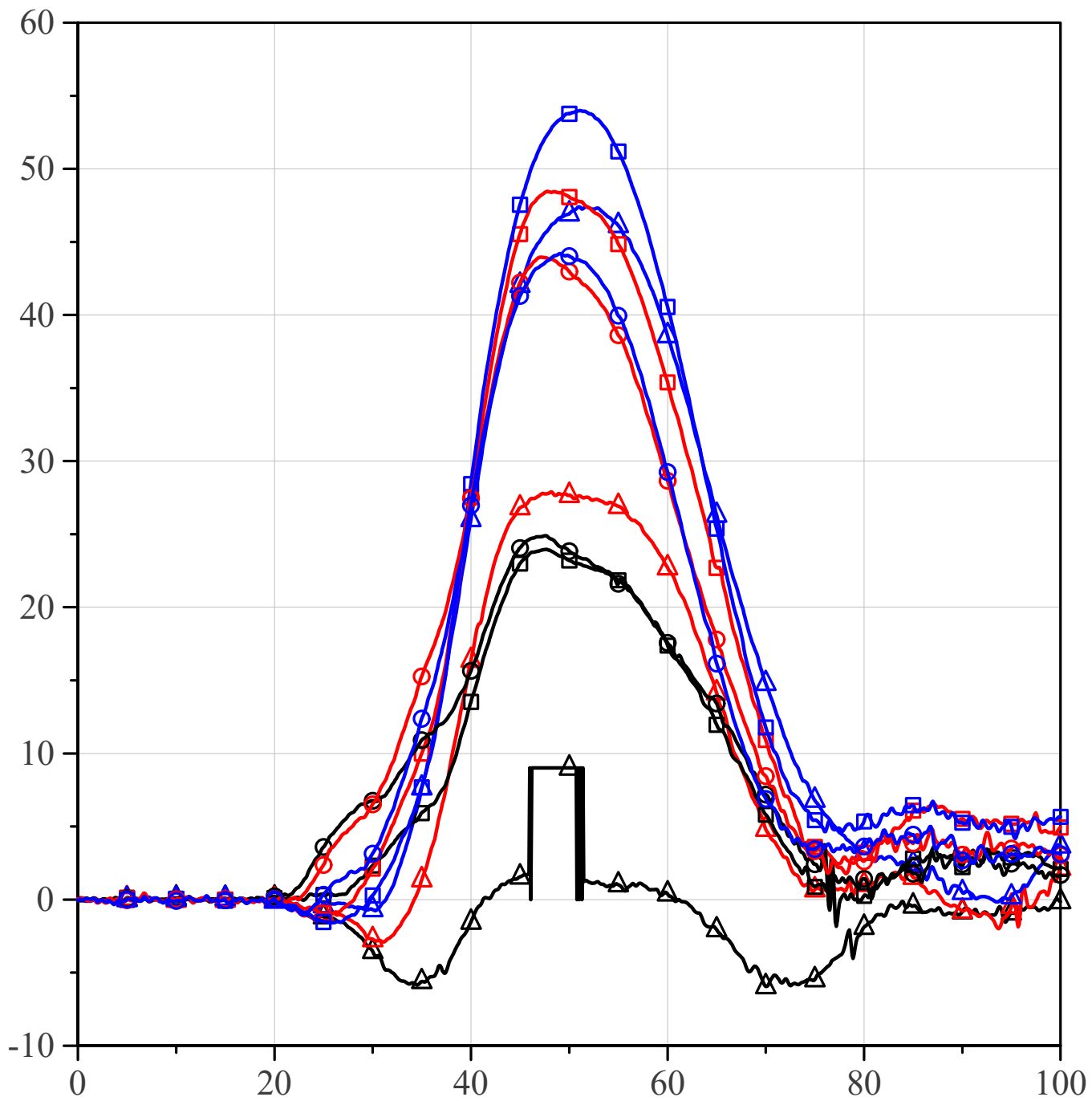
Abdomen Rib Length Change (mm) vs. Time (ms)



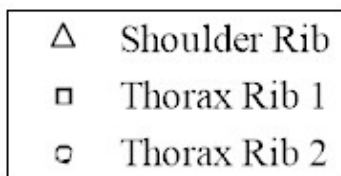
Rear LED Middle LED Front LED



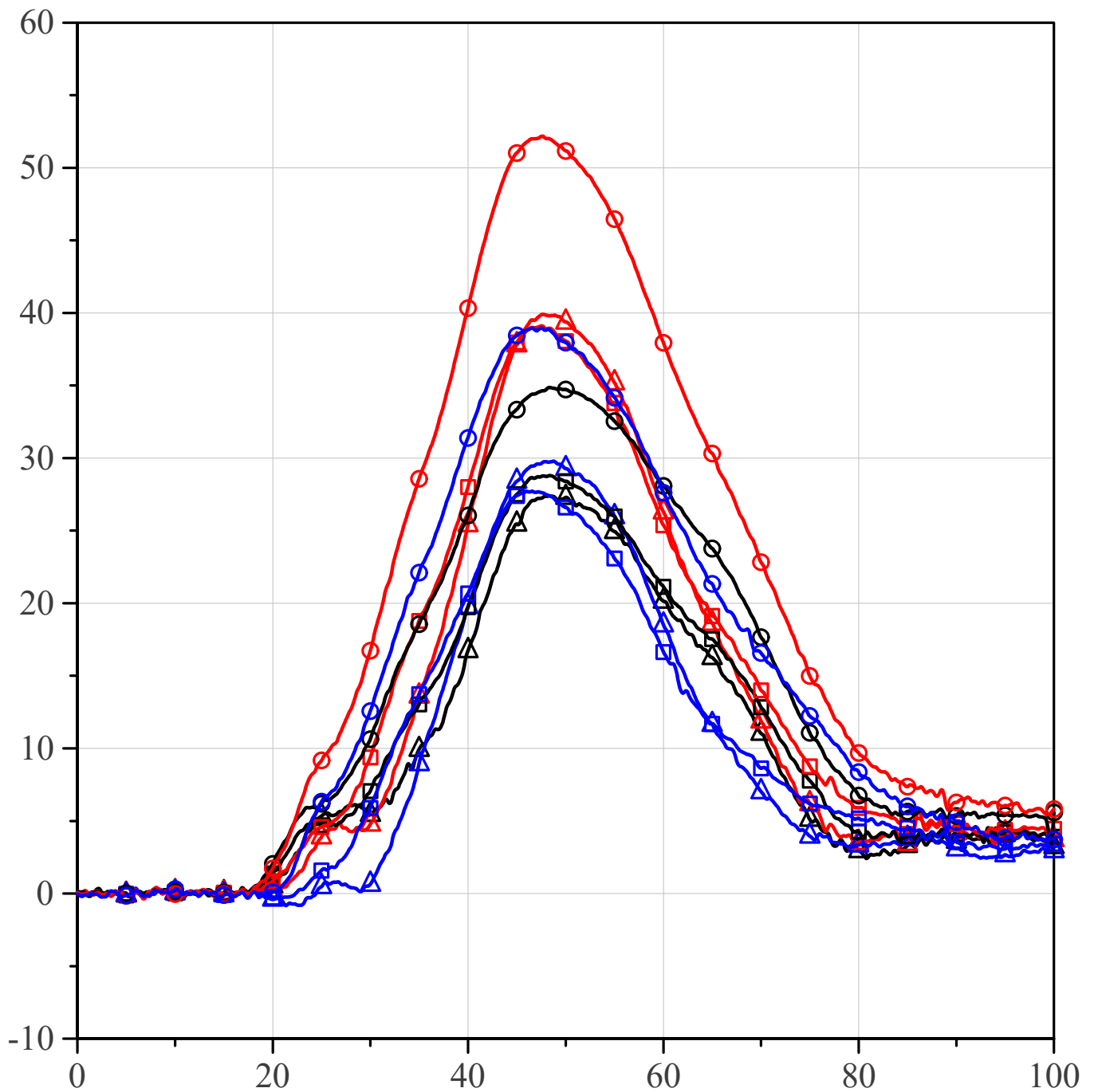
Upper Rib Group Length Change (mm) vs. Time (ms)



Rear LED Middle LED Front LED



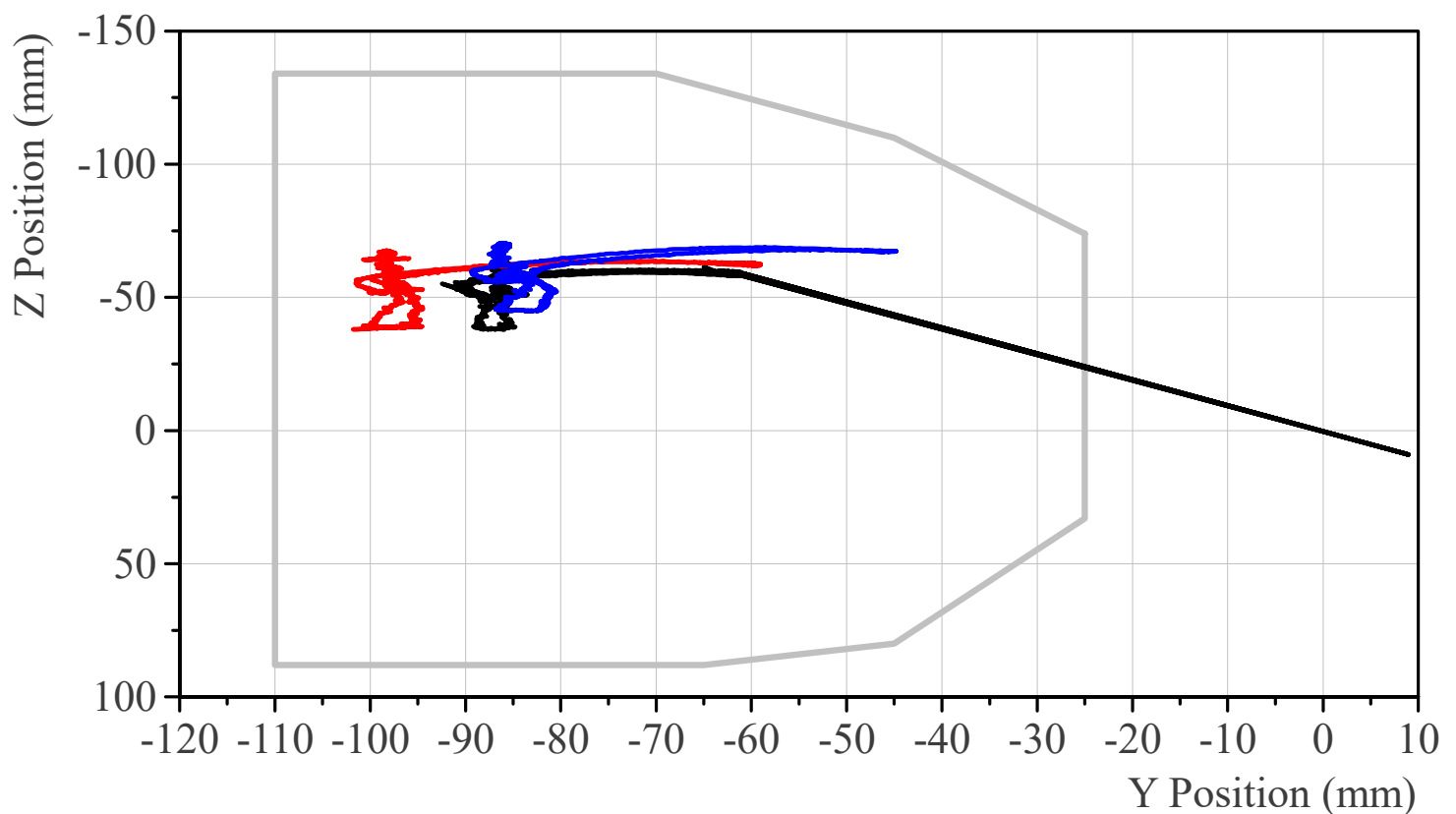
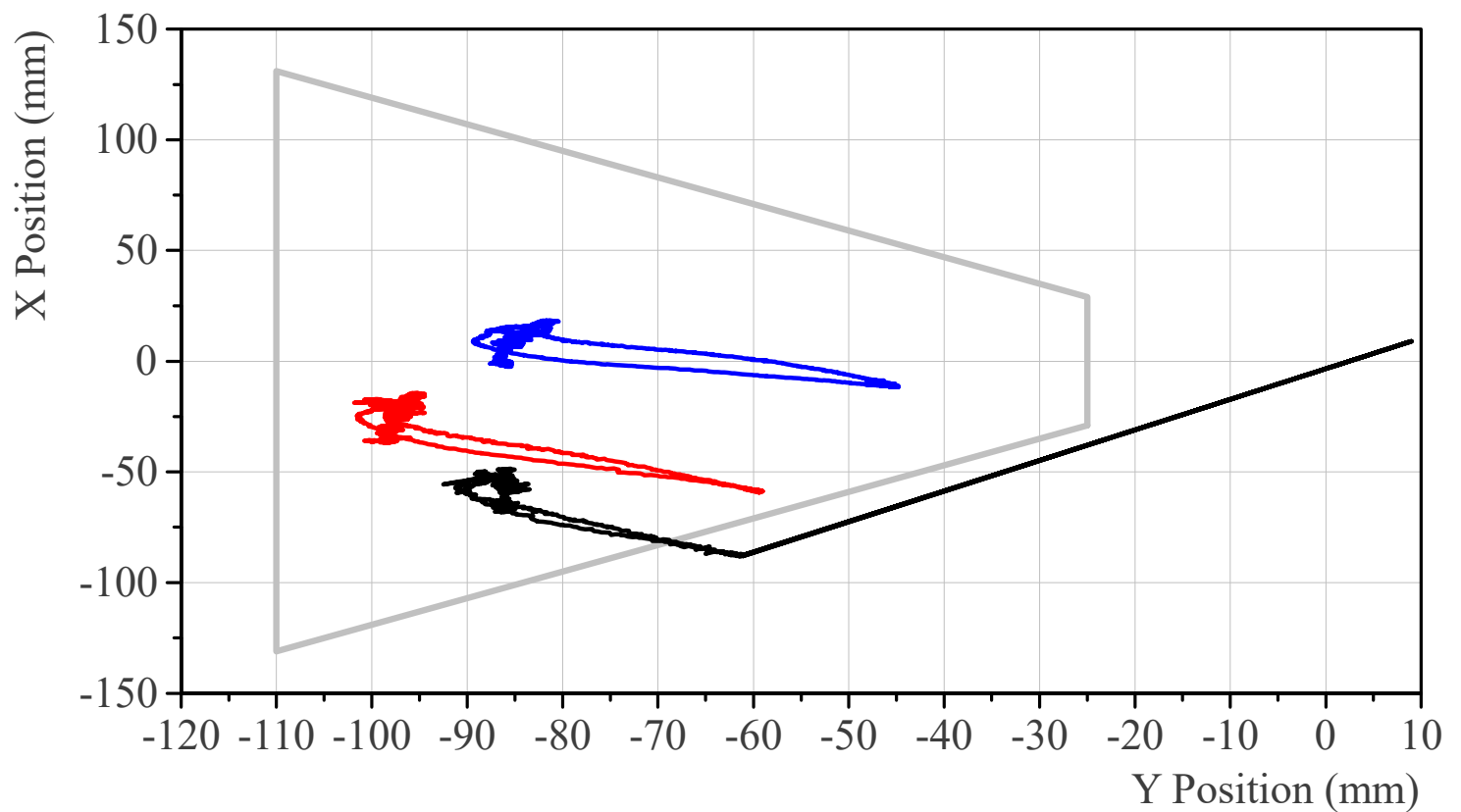
Lower Rib Group Length Change (mm) vs. Time (ms)



Rear LED Middle LED Front LED

- △ Thorax Rib 3
- Abdomen Rib 1
- Abdomen Rib 2

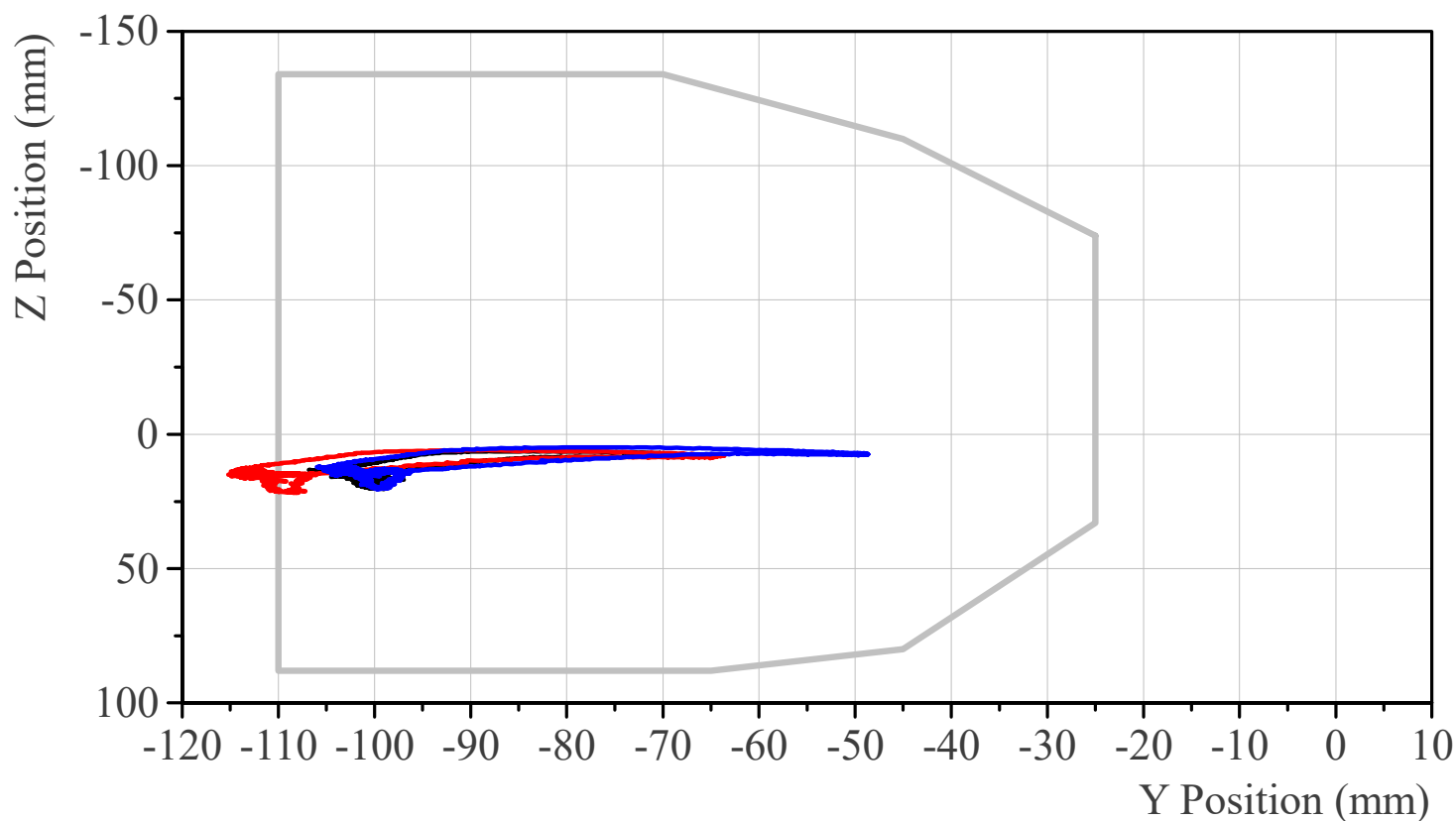
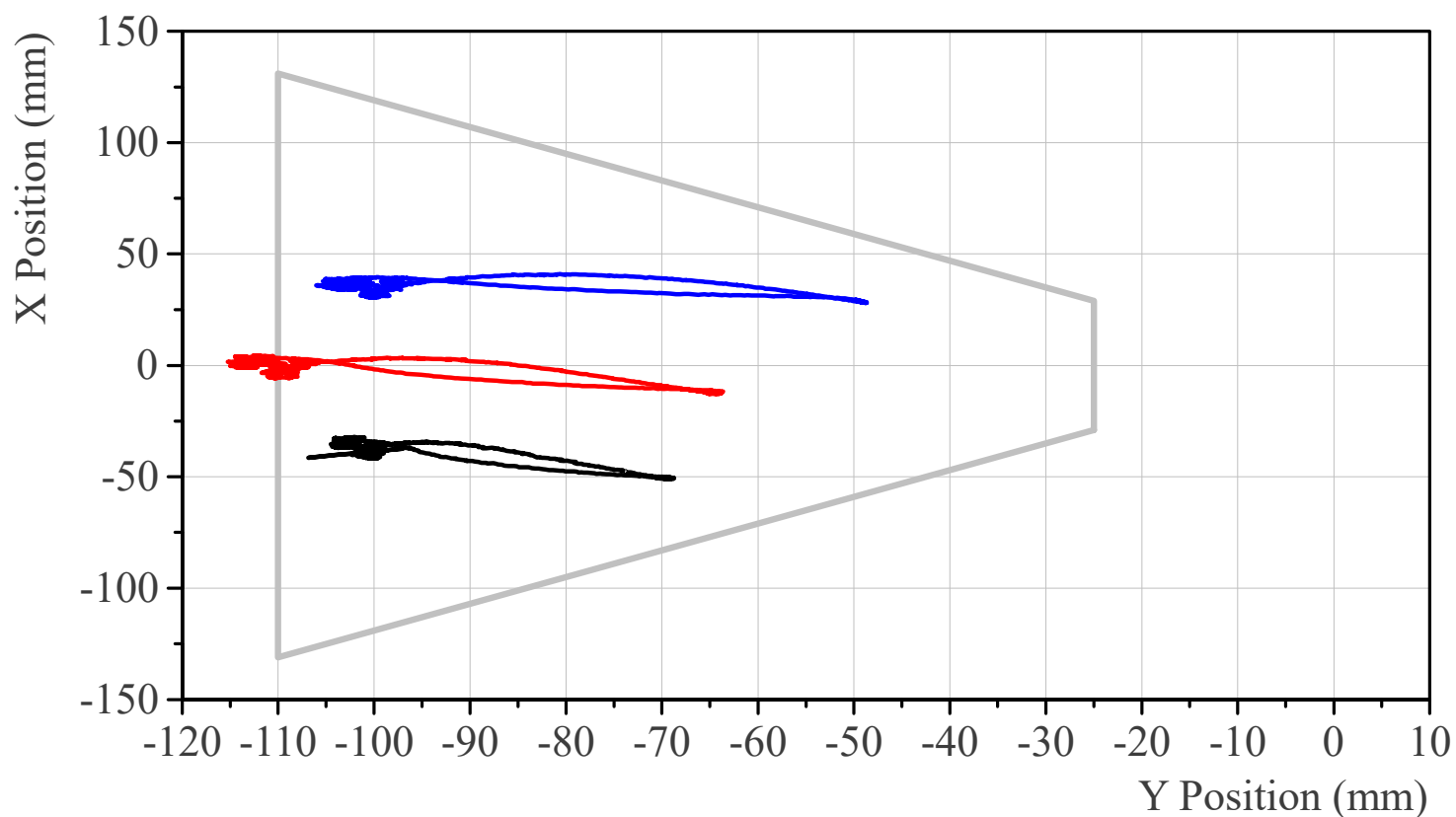
RibEye Measurement Range Plot
Shoulder Rib Absolute Position, Relative to Thorax Rib 1 Origin



Rear LED Middle LED Front LED

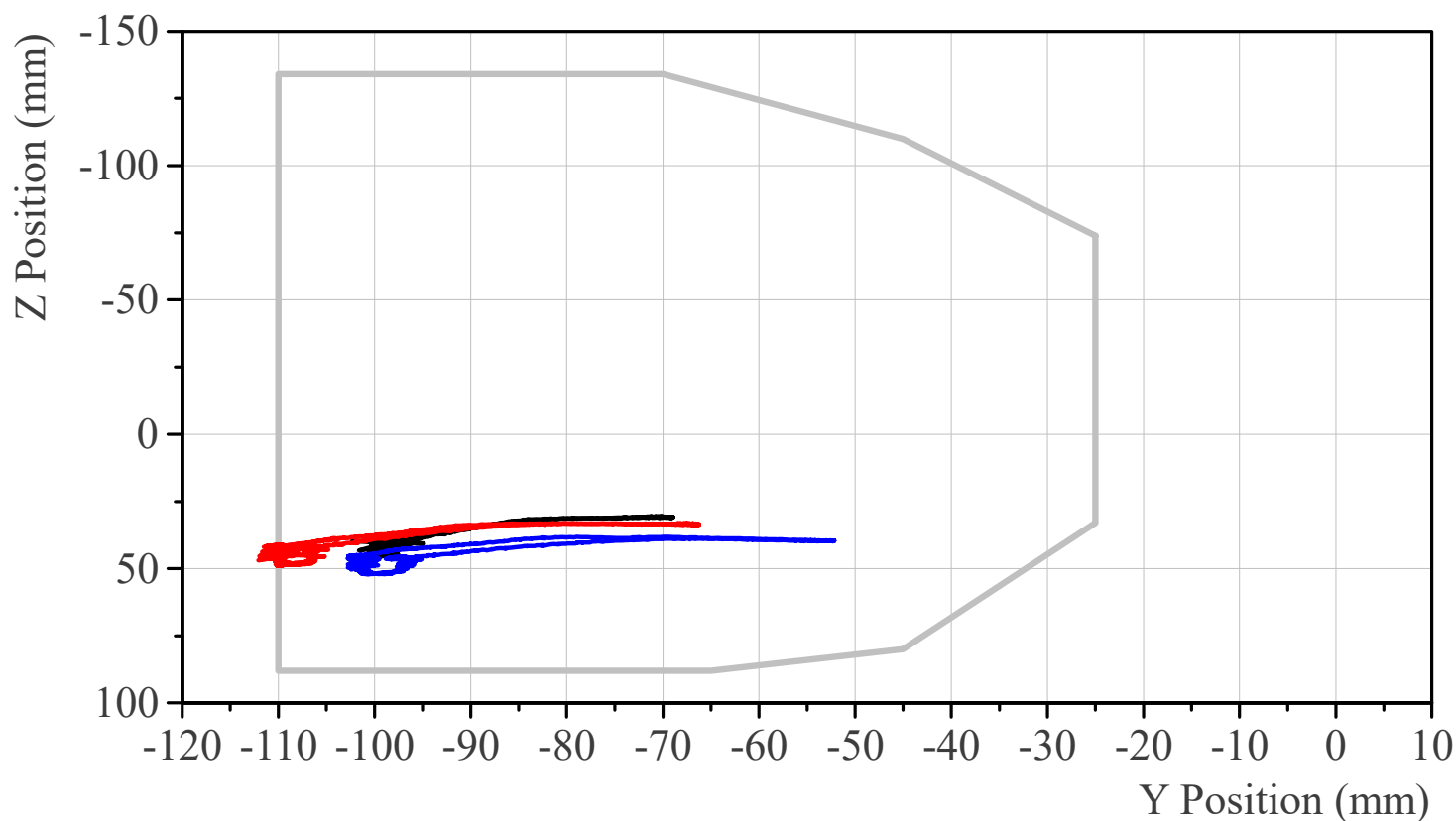
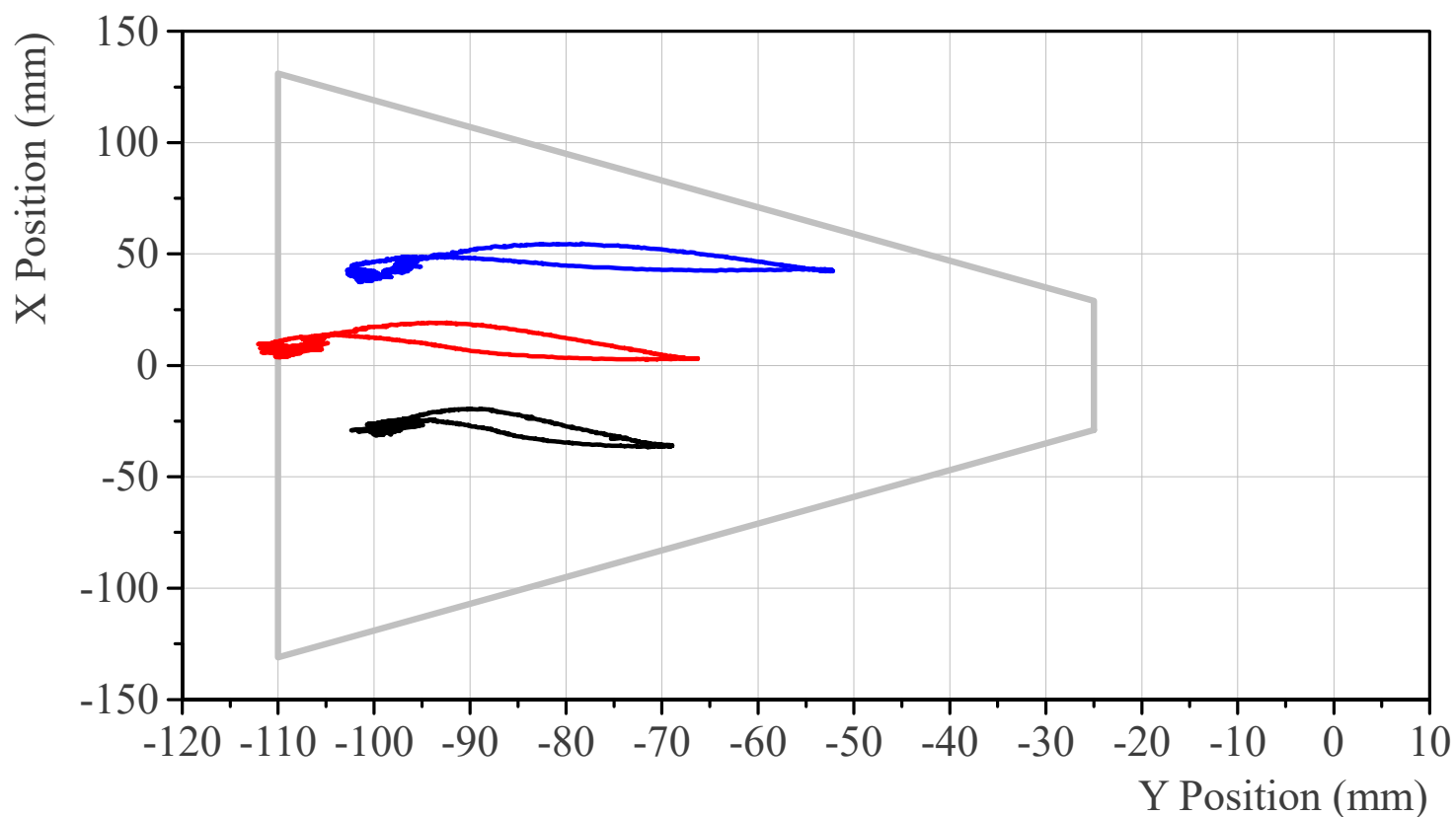
RibEye Measurement Range Plot

Thorax Rib 1 Absolute Position, Relative to Thorax Rib 1 Origin



Rear LED Middle LED Front LED

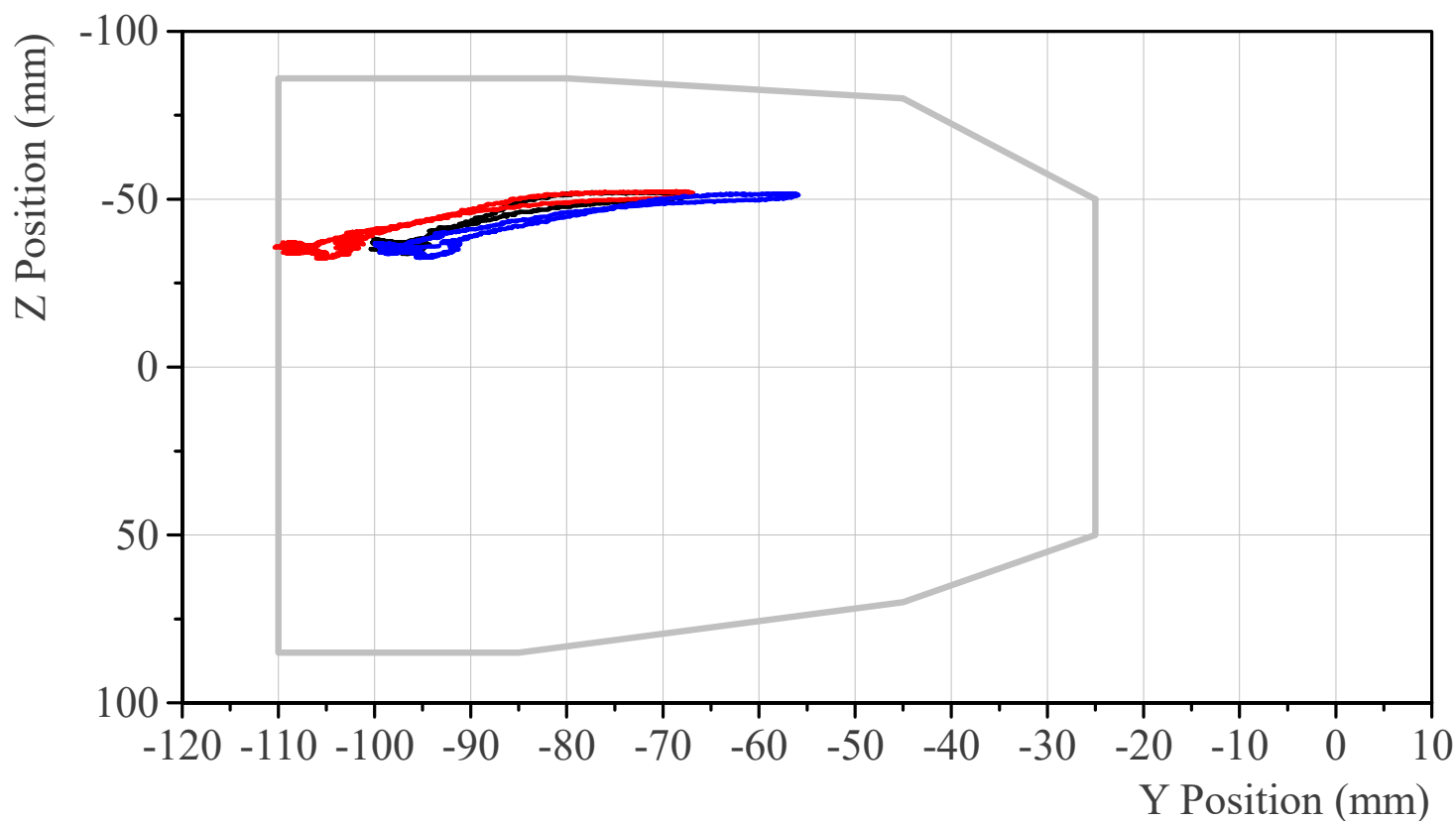
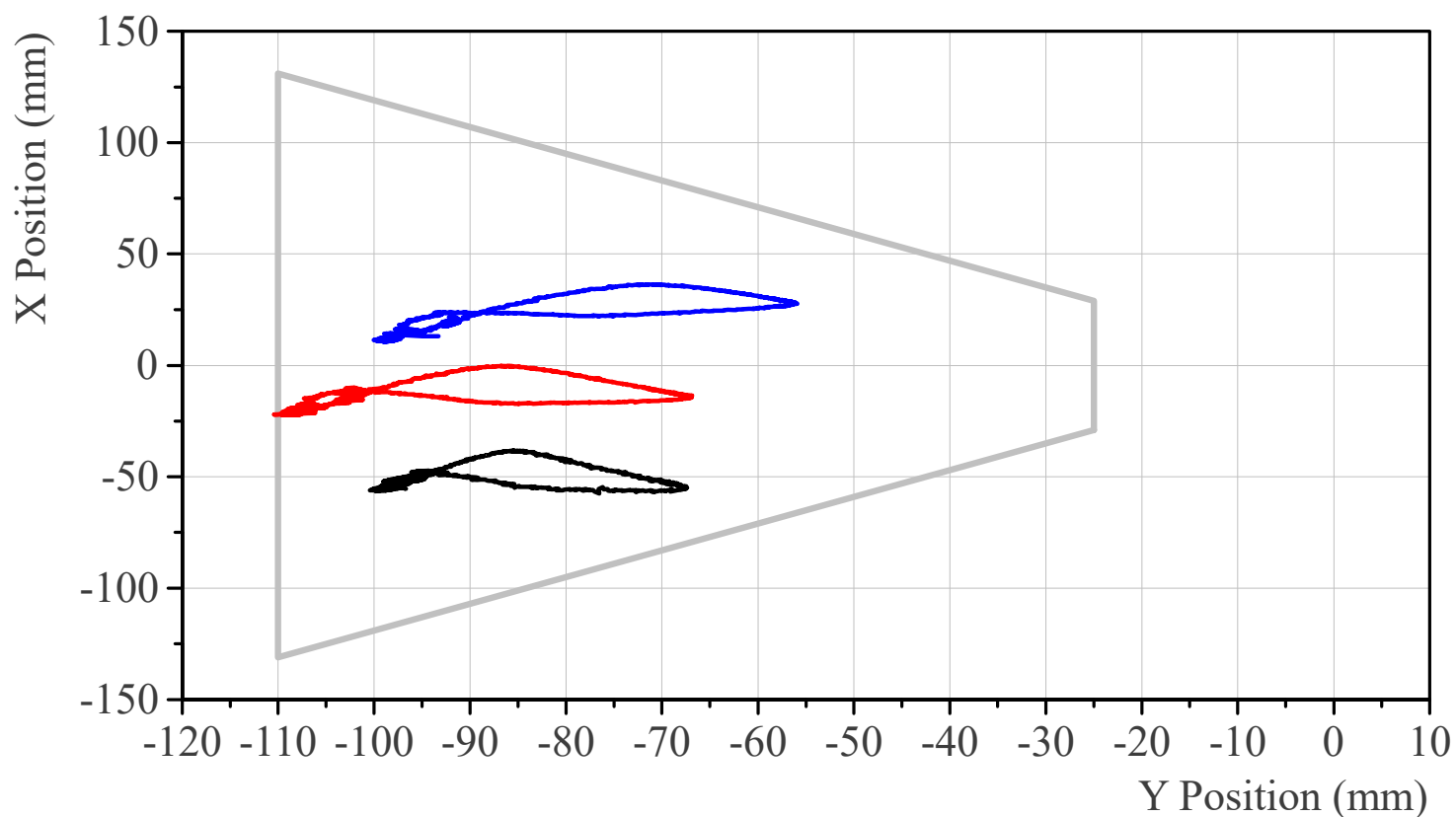
RibEye Measurement Range Plot
Thorax Rib 2 Absolute Position, Relative to Thorax Rib 1 Origin



Rear LED Middle LED Front LED

RibEye Measurement Range Plot

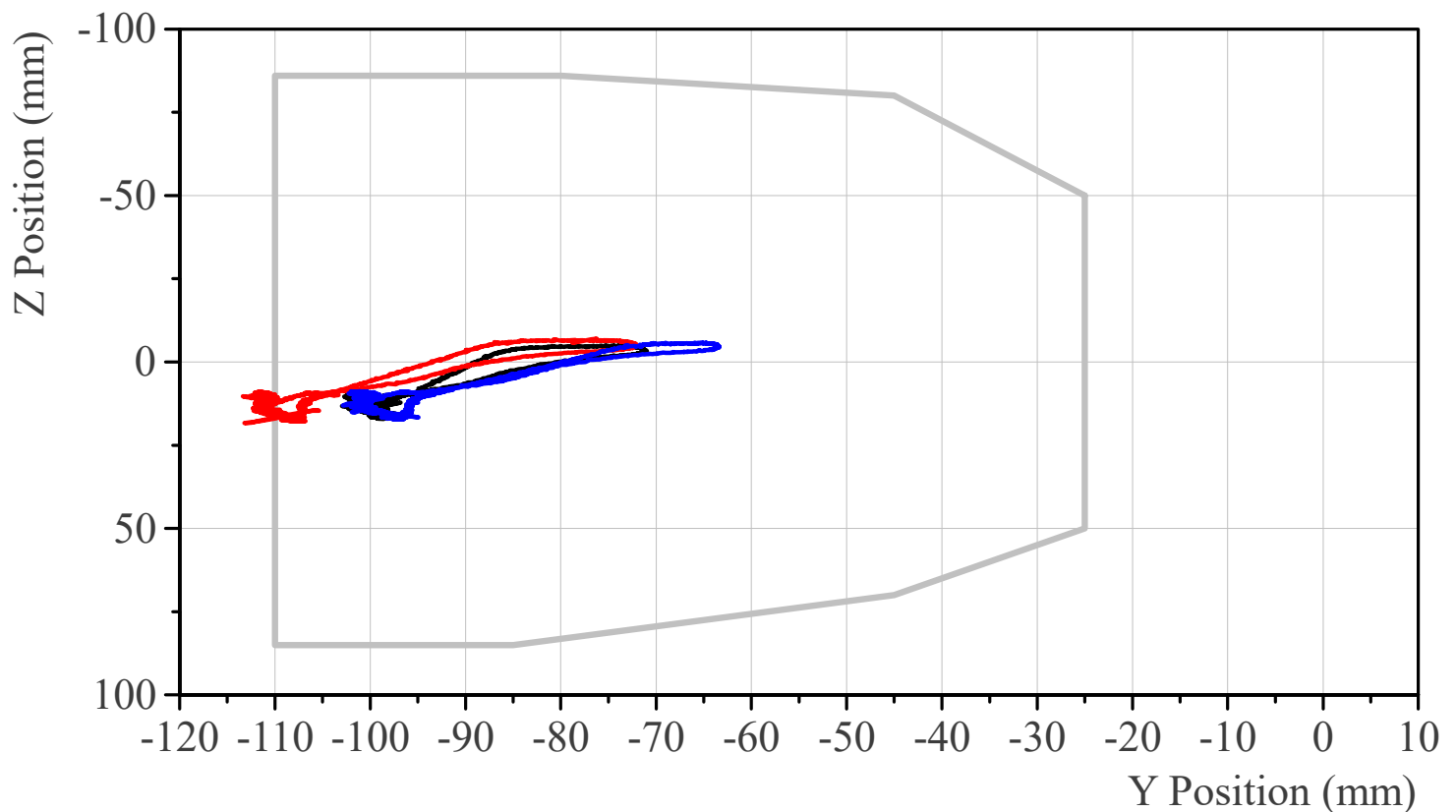
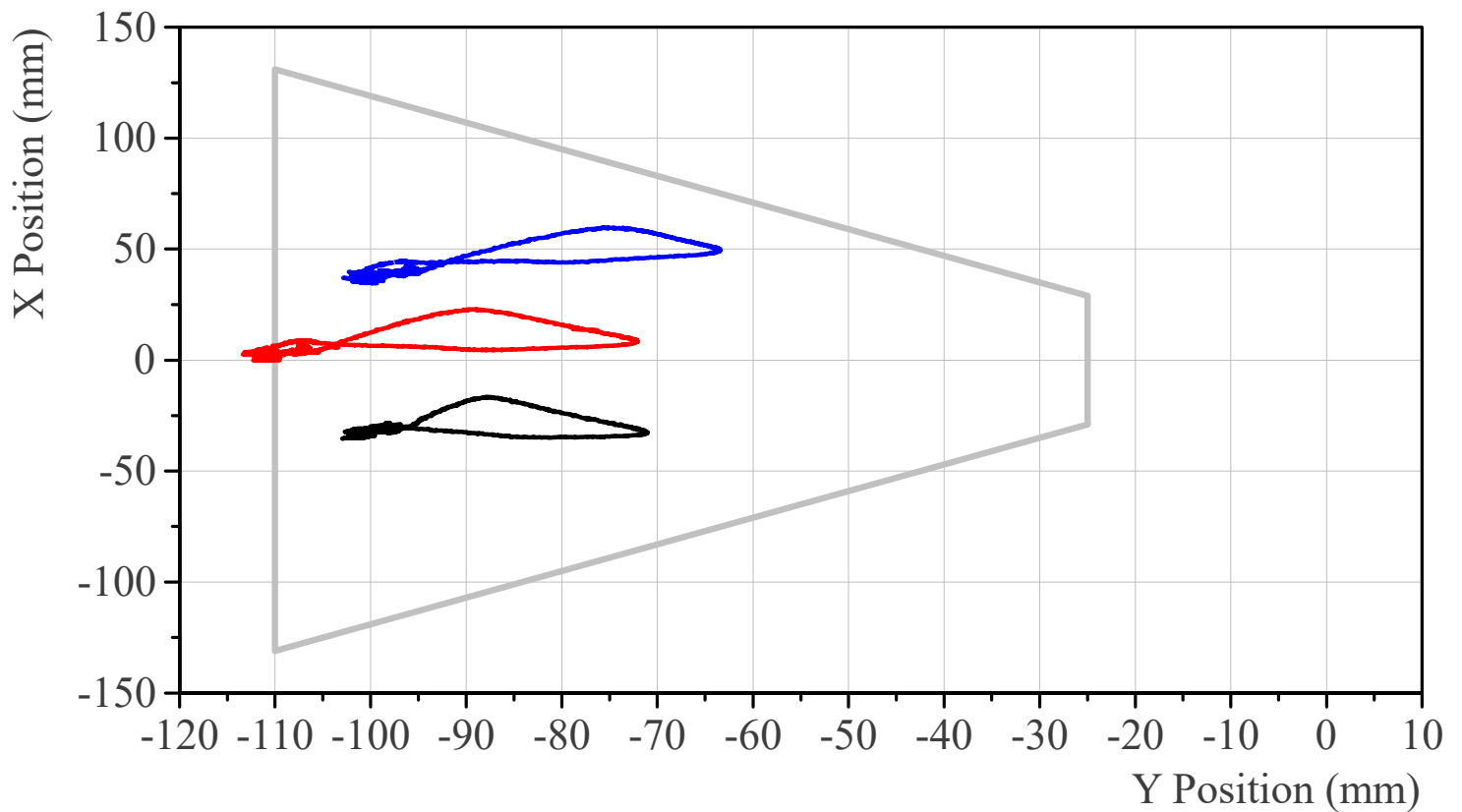
Thorax Rib 3, Absolute Position, Relative to Abdomen Rib 1 Origin



Rear LED Middle LED Front LED

RibEye Measurement Range Plot

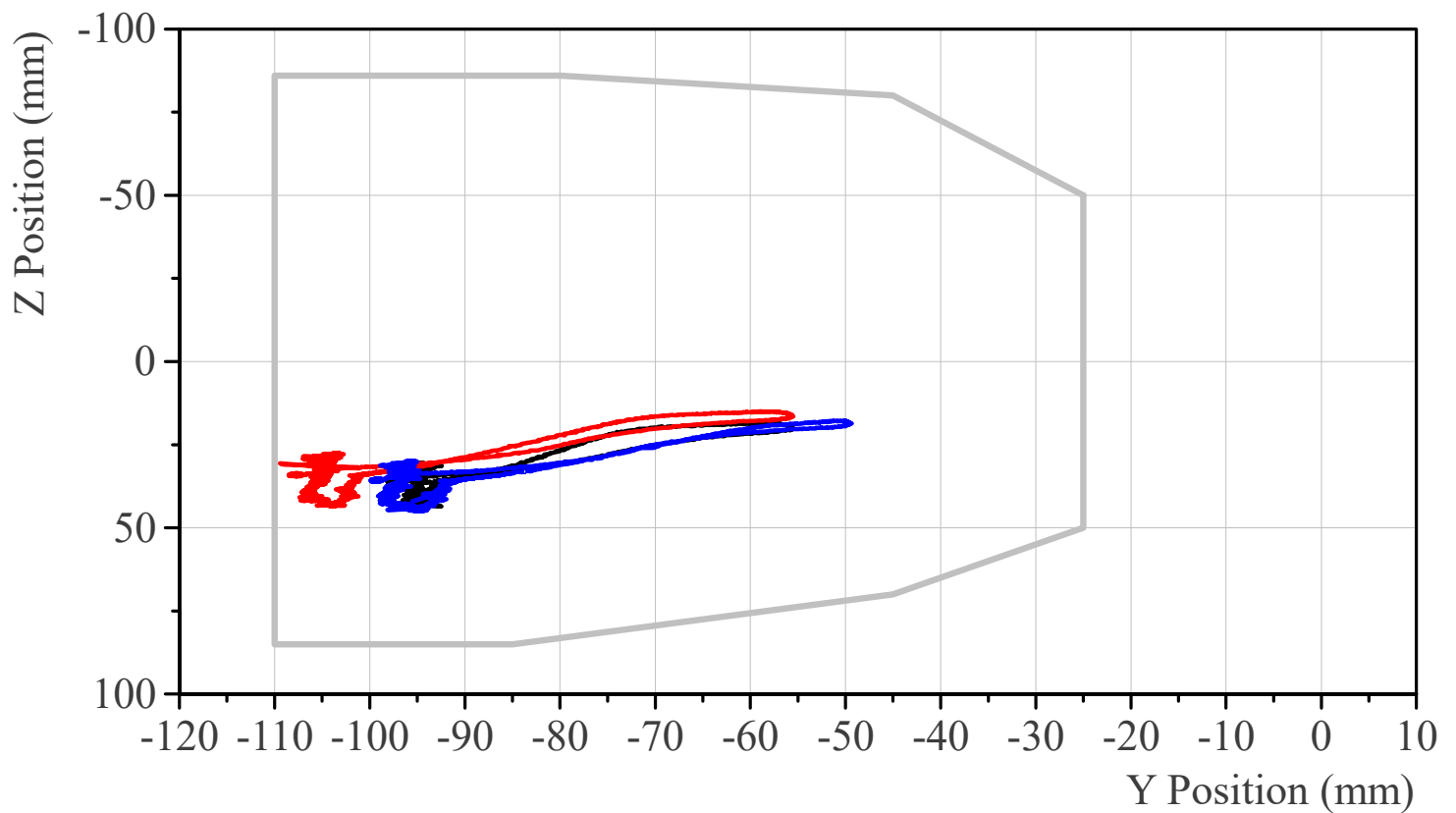
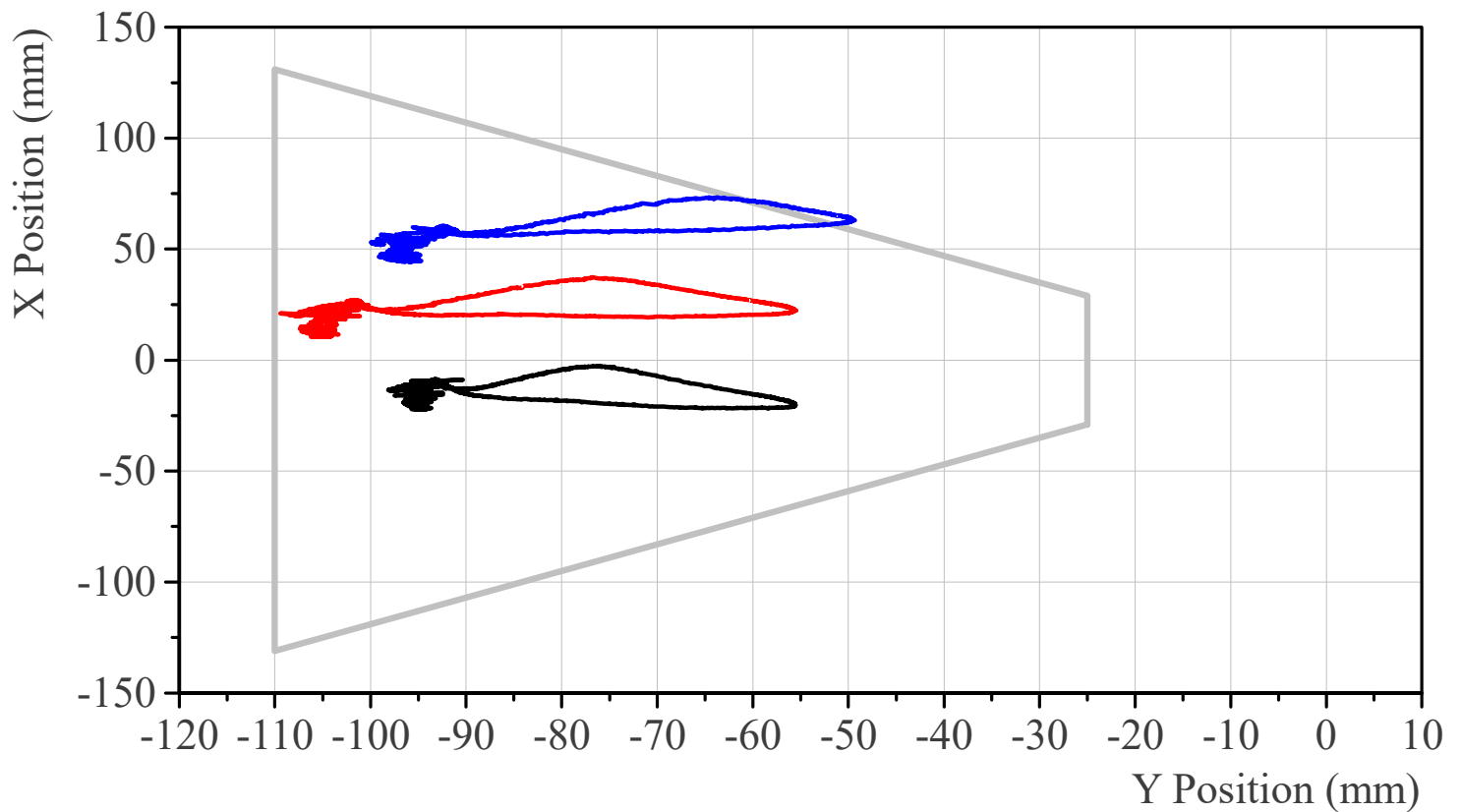
Abdomen Rib 1 Absolute Position, Relative to Abdomen Rib 1 Origin



Rear LED Middle LED Front LED

RibEye Measurement Range Plot

Abdomen Rib 2 Absolute Position, Relative to Abdomen Rib 1 Origin



Rear LED Middle LED Front LED