

Guidelines for electronic test data format:

The guidelines below are established in an effort to standardize the test data format collected for roadside safety performance evaluation tests that are conducted for FHWA. The standard format facilitates the data conversion and manipulation and allows for a more systematic analysis. Programs that can automatically convert the original test data to this format and/or read this data format can be developed and implemented in standard analysis tools. Some of these programs have been created and are available upon request.

The data measured from the test should be submitted in ASCII format. The sampling rate should be set in accordance with report 350 recommendations. All information on the measuring device; such as its location, device maker, type, range, calibration date etc, should be documented in the crash test report. Each data set (channel) should be saved in a separate file and formatted as described below. A sample file that uses this format is shown in the next page.

FILE FORMAT:

Line 1: Test Title/Description

Line 2: Test Date

Line 3: Testing Agency

Line 4: Contract Number

Line 5: Abscissa Column Description

Line 6: Ordinate Column Description

Line 7: Scale Factor to Convert Abscissa Standard Units

Line 8: Scale Factor to Convert Ordinate Standard Units

Line 9: Abscissa Units After Applying Scale Factor

Line 10: Ordinate Units After Applying Scale Factor

Line 11: Applied Filter

Line 12: Total Number of Points

Line 13-N: Additional Information If need

Line N+1: Data Start Flag, "Data Start"

Line N+2 to END: X,Y data separated by comma or spaces

Safety Evaluation Of a Roadside Device

06-17-2005

FHWA FOIL, McLean VA

DTFH72-XX-X-XXXXX

Time

CG X Acceleration

1.0

1.0

Sec.

G

Unfiltered

25000

Additional Info: Impact Speed 101.2 km/hr

Additional Info: Impact Angle 25 deg

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Additional Info: Vehicle Mass 2000 kg

Data Start

-0.500000, -0.704880

-0.499900, -0.730512

-0.499800, -0.730512

-0.499700, -0.724104

-0.499600, -0.711288

-0.499500, -0.736920

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1.998900, 0.339624

1.999000, 0.313992

1.999100, 0.313992

1.999200, 0.301176

1.999300, 0.307584

1.999400, 0.313992

1.999500, 0.313992

1.999600, 0.307584

1.999700, 0.313992

1.999800, 0.288360

1.999900, 0.281952