SCHEDULE 3

(Annex III to Directive 97/68/EC)
TEST PROCEDURE

Appendix 3

Calculation of emission mass flow rates

1.3.4. The emission mass flow rates for each mode shall be calculated as follows:

(a) For the raw exhaust gas(**1**)

$$Gas_{mass} = u \times conc \times G_{EXHW}$$

or:

$$Gas_{mass} = v \times conc \times V_{EXHD}$$

or:

$$Gas_{mass} = w \times conc \times V_{EXHD}$$

(b) For the dilute exhaust gas(**1**)

$$Gas_{mass} = u \times conc_c \times G_{TOTW}$$

or:

$$Gas_{mass} = w \times conc_c \times V_{TOTW}$$

where:

con_c = is the background corrected concentration

$conc_c = conc - conc_d \times (1 - (1/DF))$

$$DF = 13.4/(concCO_2 + (concCO + concHC) \times 10^{-4})$$

or:

$$DF = 13.4/concCO_2.$$

The coefficients u – wet, v – dry, w – wet shall be used according to the following table:

Gas	*u*	*v*	*w*	*conc*
NO_X	0.001587	0.002053	0.002053	ppm
CO	0.000966	0.00125	0.00125	ppm
HC	0.000479	—	0.000619	ppm
CO_2	15.19	19.64	19.64	percent

The density of HC is based upon an average carbon to hydrogen ratio of 1:1.85.

(**1**) In the case of NO_X, the NO_X concentration (NO_Xconc or $NO_X conc_c$) has to be multiplied by K_{HNOX}(humidity correction factor for NO_X quoted in the previous section 1.3.3) as follows:
$K_{HNOX}\times$ conc or $K_{HNOX}\times$ conc.

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