Stack emissions monitoring

Note: This relates to emissions from point sources, not ambient air monitoring.

Parameter monitored	Standard methodology used	Emission point	Detection limit	Is this company accredited for this test? [1]
Velocity, Temperature, Pressure	EN 13284-1:2002	Stack	- Nm^3/h	Yes
Moisture	EN 14790: 2005	Stack	0.1%	Yes
Oxygen	EN 14789: 2005	Stack	0.1%	Yes
Carbon Monoxide	EN 15058: 2006	Stack	1 mg/Nm^3	Yes
Carbon Dioxide	EPA 3A	Stack	0.1%	Yes
Oxides of Nitrogen (NOx)	EN 14792: 2005	Stack	1 mg/Nm^3	Yes
Sulphur Dioxide	UNI 10393: 1995	Stack	1 mg/Nm^3	Yes
Total gaseous organic carbon	EN 12619: 1999	Stack	1 mg/Nm^3	Yes
Hydrogen Fluoride	UNI 10787	Stack	0.5 mg/Nm^3	Yes
Particulates	EN 13284-1:2002	Stack	1 mg/Nm^3	Yes
Heavy Metals (As,Cd,Cr, Co,Cu,Mn,Ni,Pb,Sb,Tl,V)	EN 14385:2004	Stack	0,0005 mg/Nm^3	Yes
Mercury	EN 13211:2003+ EN 1483:1999	Stack	0,0005 mg/Nm^3	Yes
Hydrogen Chloride	EN 1911: 1998	Stack	0.5 mg/Nm^3	Yes
Ammonia	M.U.632	Stack	0.5 mg/Nm^3	Yes
Dioxins and Furans	EN 1948-1: 2006	Stack	See table below	Yes

Dioxins & Furans Detection limits:

Parameter	Method	Detection limits	Units
2,3,7,8 TetraCDD	UNI-EN 1948-1/2/3	0.1	pg/Nm3
1,2,3,7,8 PentaCDD	UNI-EN 1948-1/2/3	0.5	pg/Nm3
1,2,3,4,7,8 EsaCDD	UNI-EN 1948-1/2/3	0.7	pg/Nm3
1,2,3,6,7,8 EsaCDD	UNI-EN 1948-1/2/3	0.7	pg/Nm3
1,2,3,7,8,9 EsaCDD	UNI-EN 1948-1/2/3	0.7	pg/Nm3
1,2,3,4,6,7,8 EptaCDD	UNI-EN 1948-1/2/3	1.2	pg/Nm3
OctaCDD	UNI-EN 1948-1/2/3	1.5	pg/Nm3
2,3,7,8 TetraCDF	UNI-EN 1948-1/2/3	0.1	pg/Nm3
1,2,3,7,8 PentaCDF	UNI-EN 1948-1/2/3	0.5	pg/Nm3
2,3,4,7,8 PentaCDF	UNI-EN 1948-1/2/3	0.3	pg/Nm3
1,2,3,4,7,8 EsaCDF	UNI-EN 1948-1/2/3	0.5	pg/Nm3
1,2,3,6,7,8 EsaCDF	UNI-EN 1948-1/2/3	0.4	pg/Nm3
2,3,4,6,7,8 EsaCDF	UNI-EN 1948-1/2/3	0.7	pg/Nm3
1,2,3,7,8,9 EsaCDF	UNI-EN 1948-1/2/3	1.1	pg/Nm3
1,2,3,4,6,7,8 EptaCDF	UNI-EN 1948-1/2/3	0.4	pg/Nm3
1,2,3,4,7,8,9 EptaCDF	UNI-EN 1948-1/2/3	2.7	pg/Nm3
OctaCDF	UNI-EN 1948-1/2/3	1.7	pg/Nm3

[1] Accredited tests are subcontracted