



GETTLER-RYAN INC.



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Alameda County
Environmental Health

Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Ste. 250
Alameda, California 94502

Subject: **3rd Quarter 2008 Groundwater Monitoring and Sampling Report**
Rolls-Royce Engine Service Test Facility,
6701 Old Earhart Road, Oakland, California
Alameda County Site #RO0002606

On behalf of Rolls-Royce Engine Services-Oakland Inc. (RR), Gettler-Ryan Inc. (GR) has prepared this third quarter 2008 groundwater monitoring and sampling report for the above-referenced property. This report describes the field and analytical methods, provides a summary of groundwater monitoring results, and presents conclusions and recommendations regarding groundwater conditions at the site.

Site Location and Description

The subject site is located at 6701 Old Earhart Road, adjacent to the Metropolitan Oakland International Airport (MOIA)-North Field, Oakland, California (Figure 1). Topography in the vicinity of the subject site is relatively flat at an average elevation of approximately 7.5 feet above mean sea level. The closest surface water is within the tidal wetlands bordering the site to the east.

Pertinent site features consist of six engine test cells with auxiliary structures (sheds, pumphouse, waste water sumps, aboveground oil/water separator, control buildings, gas conditioning facility, air receivers, cooling towers, flare stack, etc), one 30,000-gallon aboveground liquefied petroleum fuel tank, one 10,000-gallon jet A fuel underground storage tank (UST) and two paired 8,000-gallon jet A fuel USTs. Pertinent site features and the location of the USTs are shown on Figure 2.

For site background and previous environmental investigation, please refer to GR report No. 25-948218.07, *Well Installation Report*, dated January 11, 2008

Groundwater Monitoring

On September 25, 2008, GR personnel conducted quarterly groundwater monitoring of nineteen wells (MW-1 through MW-15, MW-17, MW-18, NPORD MW-3 and NPORD MW-4). Work at the site included measuring static groundwater levels, evaluating groundwater in the wells for the presence of petroleum hydrocarbons, and purging and sampling the wells for laboratory analysis. Groundwater monitoring and sampling were performed in accordance with GR Field Methods and Procedures, Quarterly Groundwater Sampling (attached).

On September 25, 2008, GR collected depth to groundwater measurements in nineteen wells (MW-1 through MW-15, MW-17, MW-18, NPORD MW-3 and NPORD MW-4) and checked groundwater for the presence of Separate-Phase Hydrocarbons (SPH). Approximately 0.56 ft of SPH were observed in well MW-18.

Approximately 0.07 gallon (9 ounces) of SPH and 2 gallon of water were bailed from well MW-18 and were stored onsite in a 55-gallon DOT approved drum pending disposal. Water level data, groundwater elevations, and SPH thicknesses are presented in attached Table 1. Field data sheets for this event are attached.

Groundwater monitoring wells MW-1 through MW-15, MW-17, MW-18 and NPORD MW-3 and NPORD MW-4 were purged and sampled on the same date they were monitored. Well MW-18 was not sampled due to presence of 0.56 feet of SPH. Groundwater samples were submitted under chain-of-custody protocol to Kiff Analytical (ELAP #2236) of Davis, California. A copy of the laboratory analytical reports and chain-of-custody documents are attached. Purge water generated from the sampling activities was stored onsite in 55-gallon DOT approved drums pending disposal. GR understands that the disposal of water generated will be handled by RR.

Results

Groundwater Gradient

On September 25, 2008, the groundwater flow direction varied with hydraulic gradients ranging between 0.02 ft/ft to 0.03 ft/ft. A Potentiometric Map is presented as Figure 3.

Analytical Results

Groundwater samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg), Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), Methyl-tert Butyl Ether (MtBE), and naphthalene by EPA Method 8260B and for Total Petroleum Hydrocarbons as diesel (TPHd), Total Petroleum Hydrocarbons as motor oil (TPHmo), and Total Petroleum Hydrocarbons as jet fuel (TPHjf) by modified EPA Method 8015. Groundwater chemical analytical results for this event are presented in Table 1.

Concentrations of TPHg, TPHd, TPHmo, TPHjf, BTEX, MtBE and naphthalene were reported below the laboratory method detection limits in groundwater samples collected from wells MW-1 and NPORD MW-3.

TPHg was detected in the water sample collected from well MW-13, at a concentration of 600 parts per billion (ppb). Concentrations of TPHg were reported below the laboratory method detection limits in water samples collected from the remaining wells.

TPHd was detected in nine wells at concentrations ranging from 150 ppb in well NPORD MW-4 to 5,900 ppb in well MW-9. Concentrations of TPHmo were detected in twelve wells at levels ranging from 120 ppb in well MW-17 to 13,000 ppb in well MW-7. TPHjf was detected in sixteen wells at concentrations ranging from 51 ppb in well MW-12 to 6,300 ppb in well MW-9.

BTEX constituents were reported as below the laboratory method report limit in all of the wells, except for benzene detected in well MW-13 at a concentration of 1.2 ppb.

MtBE was detected in wells MW-3, MW-13, MW-14 at concentrations of 1.2 ppb, 2.9 ppb, and 1.0 ppb, respectively. Naphthalene was detected in wells MW-7 and MW-13 at concentrations of 0.98 ppb and 11 ppb, respectively. TPHg, TPHd, TPHmo and TPHjf concentrations are presented on Figure 4.

Conclusions and Recommendations

Based on the results of this groundwater monitoring and sampling event, GR concludes and recommends the following:

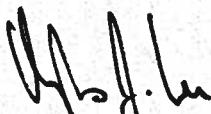
- Very low to non-detectable concentrations of dissolved petroleum hydrocarbons were present in wells MW-1, MW-2, MW-12, and MW-15 located along the northeast edge of the site;
- Detectable dissolved concentrations of TPHg appear limited to the areas in the vicinity of well MW-13;
- Separate-phase hydrocarbons continue to be limited to the vicinity of MW-18;
- Detectable dissolved concentrations of TPHd, TPHmo and TPHjf were present in a majority of the site wells. The highest concentrations were detected in the northwest portion of the site in the vicinity of Test Cells 5, 6, and 7; and
- GR recommends continuing quarterly groundwater monitoring and sampling of all wells to further evaluate groundwater flow direction, groundwater quality and plume stability over time.

If you have any questions, please feel free to contact our Rancho Cordova office at (916) 631-1300.

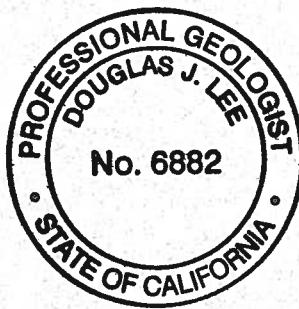
Sincerely,
Gettler-Ryan Inc.



Geoffrey D. Risse
Staff Geologist



Douglas J. Lee, P.G. No. 6882
Senior Geologist



Attachments: Table 1, Groundwater Monitoring Results
 Figure 1, Vicinity Map
 Figure 2, Site Plan
 Figure 3, Potentiometric Map
 Figure 4, Concentration Map
 GR Field Methods and Procedures
 Field Data Sheets
 Laboratory Analytical Report and Chain of Custody

CC: Dave Goldberg, Rolls-Royce Engine Services-Oakland Inc
 Dale Klettke, Port of Oakland

Table 1
 Groundwater Monitoring Results
 Rolls-Royce Engine Service Test Facility
 6701 Old Earhart Road
 Oakland, California

Sample ID	Sample Date	SPH				TPHg (ppb)	TPHd ¹ (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Naphthalene (ppb)
		TOC (feet)	DTW (feet)	Thickness (feet)	GWE (feet)										
MW-1	10/3/07	7.17	3.04	0.00	4.13	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	7.17	3.02	0.00	4.15	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	7.17	3.38	0.00	3.79	<50	<50	<100	51 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	7.17	3.03	0.00	4.14	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-2	10/3/07	7.03	2.80	0.00	4.23	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	7.03	2.94	0.00	4.09	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	7.03	3.32	0.00	3.71	<50	<50	<100	97 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	7.03	2.75	0.00	4.28	<50	<50	<100	410¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-3	10/2/07	6.73	4.56	0.00	2.17	<50	<50	<100	410	<0.50	<0.50	<0.50	<0.50	1.6 ⁴	<0.50
	3/14/08	6.73	3.98	0.00	2.75	<50	<50	<100	120 ⁹	<0.50	<0.50	<0.50	<0.50	0.99	<0.50
	6/26/08	6.73	4.21	0.00	2.52	<50	<50	<100	610 ⁷	<0.50	1.7	<0.50	<0.50	0.93	<0.50
	9/25/08	6.73	4.25	0.00	2.48	<50	<50	<100	650¹⁶	<0.50	<0.50	<0.50	<0.50	1.2	<0.50
MW-4	10/2/07 ⁴	9.79	5.81	0.00	3.98	<50	86	<100	280	<0.50	0.63	<0.50	<0.50	<0.50	<0.50
	3/14/08	9.79	5.82	0.00	3.97	<50	3,300	2,400	3,400 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	9.79	6.08	0.00	3.71	<50	2,300	1,900	2,700 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	9.79	5.98	0.00	3.81	<50	1,600	1,400	2,100¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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		TOC (feet)	DTW (feet)	Thickness (feet)	GWE (feet)										
MW-5	10/2/07	8.35	4.75	0.00	3.60	<50	5,600	11,000	5,300	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	8.35	4.40	0.00	3.95	<50	1,200 ⁶	1,700	1,100 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	8.35	4.68	0.00	3.67	<50	1,400 ⁶	3,200	2,000 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	8.35	4.52	0.00	3.83	<50	670⁶	1,200	940¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-6	10/2/07	9.51	5.90	0.00	3.61	<50	3,000 ⁶	7,700	2,500 ⁷	<0.50	<0.50	0.86	1.1	<0.50	0.53
	3/14/08	9.51	5.55	0.00	3.96	<50	3,600 ¹⁰	7,600	2,800 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	9.51	5.80	0.00	3.71	<50	3,200 ¹⁰	9,400	3,200 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	9.51	5.69	0.00	3.82	<50	3,500¹⁰	8,800	3,800¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-7	10/2/07	9.23	5.68	0.00	3.55	<50	12,000 ⁶	34,000	9,100 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	0.76
	3/14/08	9.23	5.32	0.00	3.91	<50	7,900 ⁶	20,000	5,500 ¹¹	<0.50	<0.50	<0.50	<0.50	<0.50	3.5
	6/26/08	9.23	5.56	0.00	3.67	<50	3,300 ⁶	10,000	3,300 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	9.23	5.46	0.00	3.77	<50	5,300¹⁰	13,000	6,000¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	0.98
MW-8	9/14/07	8.25	4.65	0.00	3.60	<50	790 ³	2,700	1,000 ²	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08									Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland					
	7/3/04	8.25	4.49	0.00	3.76	<50	1,200 ⁶	4,400	1,800 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	8.25	4.41	0.00	3.84	<50	<50	130	140¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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		TOC (feet)	DTW (feet)	Thickness (feet)	GWE (feet)											
MW-9	10/3/07	9.44	5.81	0.00	3.63	<50	7,700	10,000	6,700	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 ⁴	<0.50
	3/14/08	9.44	5.51	0.00	3.93	<50	6,400	8,000	4,000 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	9.44	5.72	0.00	3.72	<50	1,600 ¹⁰	1,800	1,800 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	9.44	5.59	0.00	3.85	<50	5,900¹⁰	9,300	6,300¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-10	10/3/07	7.51	3.89	0.00	3.62	110	4,200	1,300	4,500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 ⁴	<0.50
	3/14/08	7.51	3.68	0.00	3.83	53	420	270	420 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50
	6/26/08	7.51	3.80	0.00	3.71	120	1,200	1,000	2,000	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5.0
	9/25/08	7.51	3.68	0.00	3.83	<50	3,100¹⁰	2,200	3,600	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-11	10/3/07	7.60	4.01	0.00	3.59	80	250	490	610	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 ⁴	<0.50
	3/14/08	7.60	3.71	0.00	3.89	61	410 ⁶	1,200	520 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	7.60	3.92	0.00	3.68	<50	2,700 ¹⁰	7,300	3,600 ¹⁵	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	7.60	3.82	0.00	3.78	<50	2,800¹⁰	5,900	3,800¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-12	10/3/07	7.32	3.61	0.00	3.71	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 ⁴	<0.50
	3/14/08	7.32	3.35	0.00	3.97	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08	7.32	3.60	0.00	3.72	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	7.32	3.50	0.00	3.82	<50	<50	<100	51¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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Sample ID	Sample Date	SPH														
		TOC (feet)	DTW (feet)	Thickness (feet)	GWE (feet)	TPHg (ppb)	TPHd ¹ (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Naphthalene (ppb)	
MW-13	10/3/07	6.10	2.86	0.00	3.24	160	70 ⁸	<100	660	<0.50	<0.50	<0.50	<0.50	1.2 ⁴	1.7	
	3/14/08	6.10	1.96	0.00	4.14	350 ¹²	490	130 ¹³	1,200	0.89	<0.50	<0.50	<0.50	2.0	8.9	
	6/26/08	6.10	2.57	0.00	3.53	720	200 ⁸	<100	4,100 ¹⁵	2.0	<0.50	<0.50	0.60	3.3	3.3	
	9/25/08	6.10	2.48	0.00	3.62	600	<200¹⁷	130¹³	1,900¹⁶	1.2	<0.50	<0.50	<0.50	2.9	11	
MW-14	10/2/07	6.42	2.40	0.00	4.02	67	300	870	1,400	<0.50	<0.50	<0.50	<0.50	1.4 ⁴	6.1	
	3/14/08	6.42	2.44	0.00	3.98	50	250 ⁶	350	500 ⁷	<0.50	<0.50	<0.50	<0.50	1.7	5.0	
	6/26/08	6.42	2.62	0.00	3.80	<50	570 ¹⁰	2,700	2,000 ¹⁵	<0.50	<0.50	<0.50	<0.50	1.4	3.1	
	9/25/08	6.42	2.58	0.00	3.84	<50	510¹⁰	1,700	1,800¹⁶	<0.50	<0.50	<0.50	<0.50	1.0	<0.50	
MW-15	10/2/07	7.51	4.85	0.00	2.66	<50	99	<100	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	3/14/08	7.51	4.62	0.00	2.89	<50	<50	<100	88 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	6/26/08	7.51	4.81	0.00	2.70	<50	<50	<100	84 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/25/08	7.51	4.81	0.00	2.70	<50	<50	<100	53	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-17	9/14/07	0.04	4.10	0.00	-4.06	<50	<50	220	150 ²	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	3/14/08				Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland											
	7/3/08	0.04	1.98	0.00	-1.94	<50	<50	<100	84 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
	9/25/08¹⁴	0.04	4.77	0.00	-4.73	<50	<50	<50	120	110¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50	

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MW-18	10/2/07	7.05	4.15	0.55	3.34**										Not developed or sampled due to presence of FPP
	3/14/08	7.05	3.62	0.63	3.93**										Not sampled due to presence of FPP
	6/26/08	7.05	4.11	1.14	3.85**										Not sampled due to presence of FPP
	9/25/08	7.05	3.77	0.56	3.73**										Not sampled due to presence of FPP
NPORD MW-3	9/14/07	8.11	4.43	0.00	3.68	<50	<50	<100	64 ²	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08					Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland									
	7/3/08	8.11	3.96	0.00	4.15	<50	<50	<100	99 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	8.11	4.06	0.00	4.05	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
NPORD MW-4	9/14/07	10.06	6.48	0.00	3.58	50	1,000 ³	1,400	2,000 ²	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08					Not able to sample well-no access agreement between Rolls-Royce and Port of Oakland									
	7/3/08	10.06	6.26	0.00	3.80	<50	360 ⁶	700	960 ⁷	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/25/08	10.06	6.28	0.00	3.78	<50	150⁶	240	820¹⁶	<0.50	<0.50	<0.50	<0.50	<0.50⁴	<0.50
QA	9/14/07	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	10/2/07	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/14/08	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/26/08 ¹⁴	--	--	--	--	<50	NA	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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 6701 Old Earhart Road
 Oakland, California

Sample ID	Sample Date	TOC (feet)	DTW (feet)	Thickness (feet)	GWE (feet)	TPHg (ppb)	TPHd ¹ (ppb)	TPHmo (ppb)	TPHjf (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MtBE (ppb)	Naphthalene (ppb)
QA	7/3/08	--	--	--	--	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
(con't)	9/25/08	--	--	--	--	<50	<50	<100	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Explanation:

TOC = Top of Casing Elevation

DTW = Depth to Water

GWE = Groundwater Elevation

ft = feet

SPH = Separate Phase Hydrocarbons

ppb = parts per billion ($\mu\text{g}/\text{L}$)

NA = Not Analyzed

-- = Not Applicable

QA = Trip Blank

TPHg = Total Petroleum Hydrocarbons as gasoline

TPHd = Total Petroleum Hydrocarbons as diesel

TPHmo = Total Petroleum Hydrocarbons as motor oil

TPHjf = Total Petroleum Hydrocarbons as jet fuel

B = Benzene

T = Toluene

Analytical Laboratory:

Kiff Analytical LLC (ELAP # 2236)

Analytical Methods:

TPHg/BTEX/MtBE/Naphthalene by EPA Method 8260B

TPHd/TPHmo/TPHjf by modified EPA Method 8015

Table 1
Groundwater Monitoring Results
Rolls-Royce Engine Service Test Facility
6701 Old Earhart Road
Oakland, California

Explanation: (con't)

E = Ethylbenzene

X = total xylenes

MtBE = Methyl tert-Butyl Ether

** = GWE corrected for the presence of SPH [(TOC-DTW) + (SPH thickness x SPH specific gravity)]. Specific gravity of SPH is assumed to be 0.8.

Notes:

TOC elevations surveyed relative to mean sea level by Morrow Surveying (PLS #5161) on October 8, 2007

¹ With Silica Gel Cleanup

² Discrete peaks, higher boiling hydrocarbons present in sample that are atypical for Jet Fuel

³ Discrete peaks, higher boiling hydrocarbons present in sample that are atypical for Diesel Fuel

⁴ Matrix spike/matrix spike duplicate results associated with these samples for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

⁵ Due to the formation of an emulsion in this sample, the sample was centrifuged and decanted prior to extraction.

⁶ Hydrocarbons present in this sample are higher-boiling than typical Diesel Fuel.

⁷ Hydrocarbons present in this sample are higher-boiling than typical Jet Fuel.

⁸ Lower boiling hydrocarbons are present in this sample that are atypical for Diesel Fuel.

⁹ Discrete peaks present in this sample that are atypical for Jet Fuel.

¹⁰ Some lower-boiling hydrocarbons than Diesel and some higher-boiling hydrocarbons than Diesel are present in this sample.

¹¹ Both lower-boiling and higher-boiling hydrocarbons than Jet Fuel are present in this sample.

¹² Sample contained primarily compounds not found in typical Gasoline.

¹³ Hydrocarbons present in this sample are lower-boiling than typical Motor Oil

¹⁴ Sample was analyzed by EPA Method 8260B using bottles that contained headspace bubbles greater than 1/4-inch in diameter

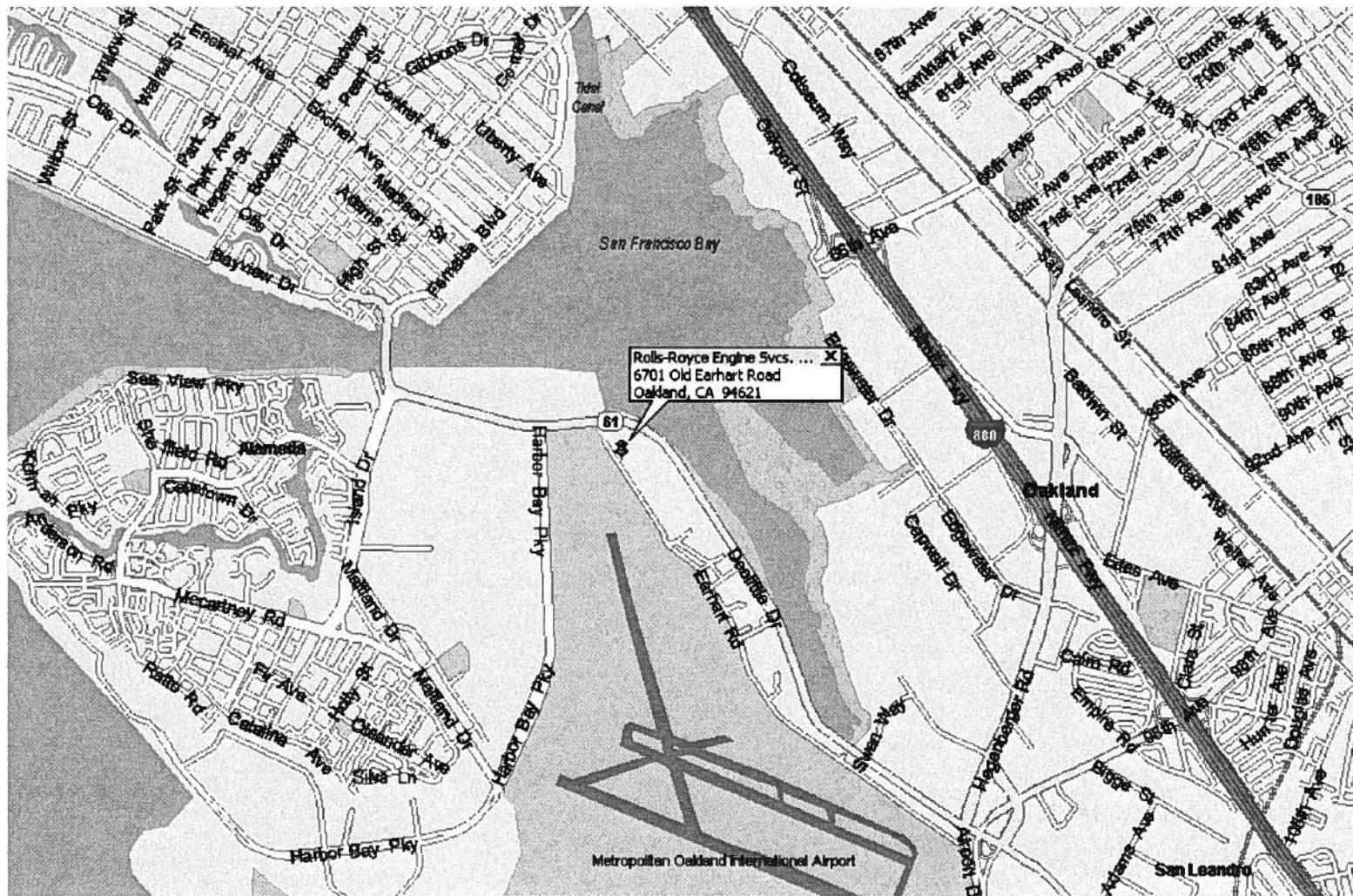
Table 1
Groundwater Monitoring Results
Rolls-Royce Engine Service Test Facility
6701 Old Earhart Road
Oakland, California

Notes: (con't)

¹⁵ Lower boiling hydrocarbons are present in this sample that are atypical for Jet Fuel.

¹⁶ Chromatographic pattern not typical for Jet Fuel.

¹⁷ Diesel method reporting limit for this sample was increased due to interference from Gasoline range hydrocarbons.



PROJECT NUMBER
25-948218.7

REVIEWED BY

SITE LOCATION MAP
ROLLS-ROYCE ENGINE SERVICES TEST FACILITY
6701 OLD EARHART RD.
OAKLAND, CA

DATE
11/13/07

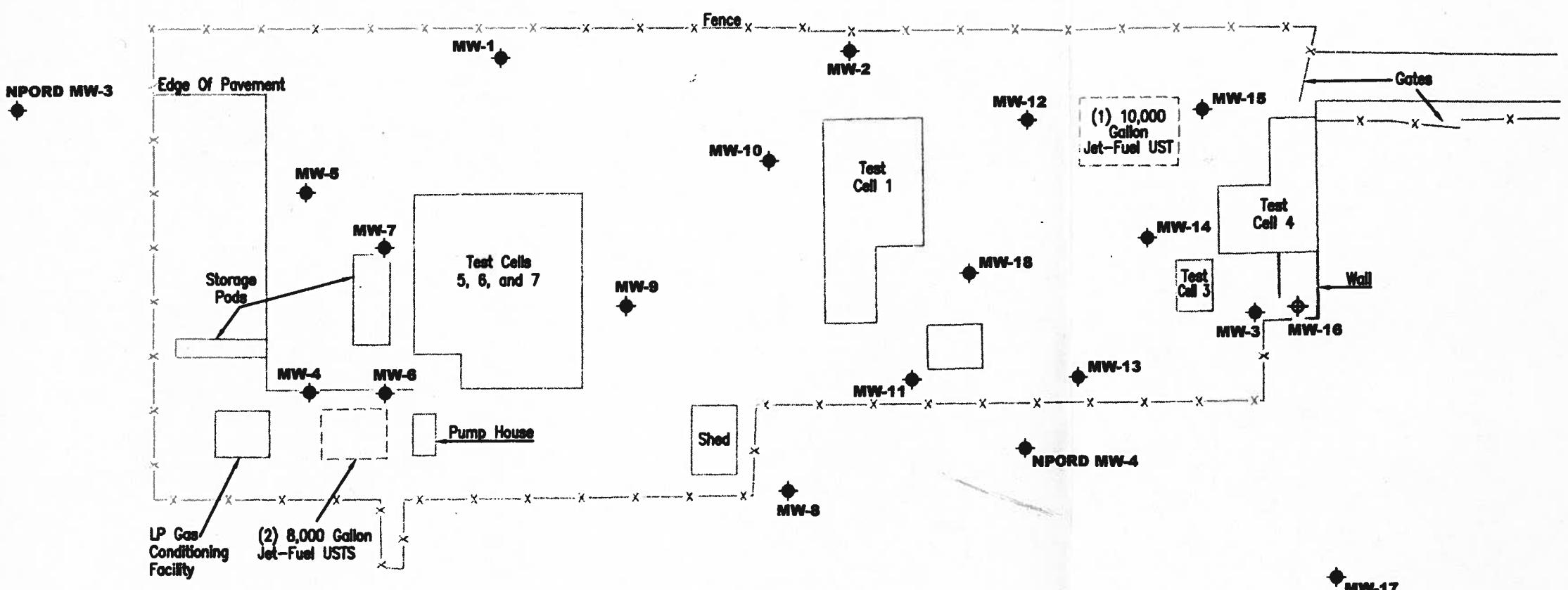
REVISED DATE

FIGURE

1

EXPLANATION

- ◆ Groundwater monitoring well
- ◆ Proposed monitoring well – not installed location inaccessible by drill rig



GETTLER - RYAN INC.
6747 Sierra Court, Suite J
Dublin, CA 94568
(925) 551-7555

REVIEWED BY

PROJECT NUMBER

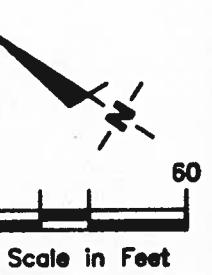
948218.2

FILE NAME: P:\Enviro\Rolls Royce\007-Rolls Royce.dwg | Layout 1ab: Site Plan

SITE PLAN
Rolls-Royce Engine Services Test Facility
6701 Old Earhart Road
Oakland, CA

REVISED DATE

11/07



POTENTIOMETRIC MAP
 Rolls-Royce Engine Services Test Facility
 6701 Old Elmhurst Road
 Oakland, CA

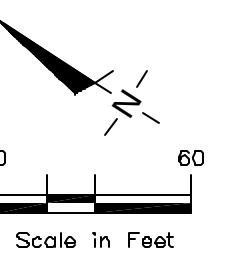
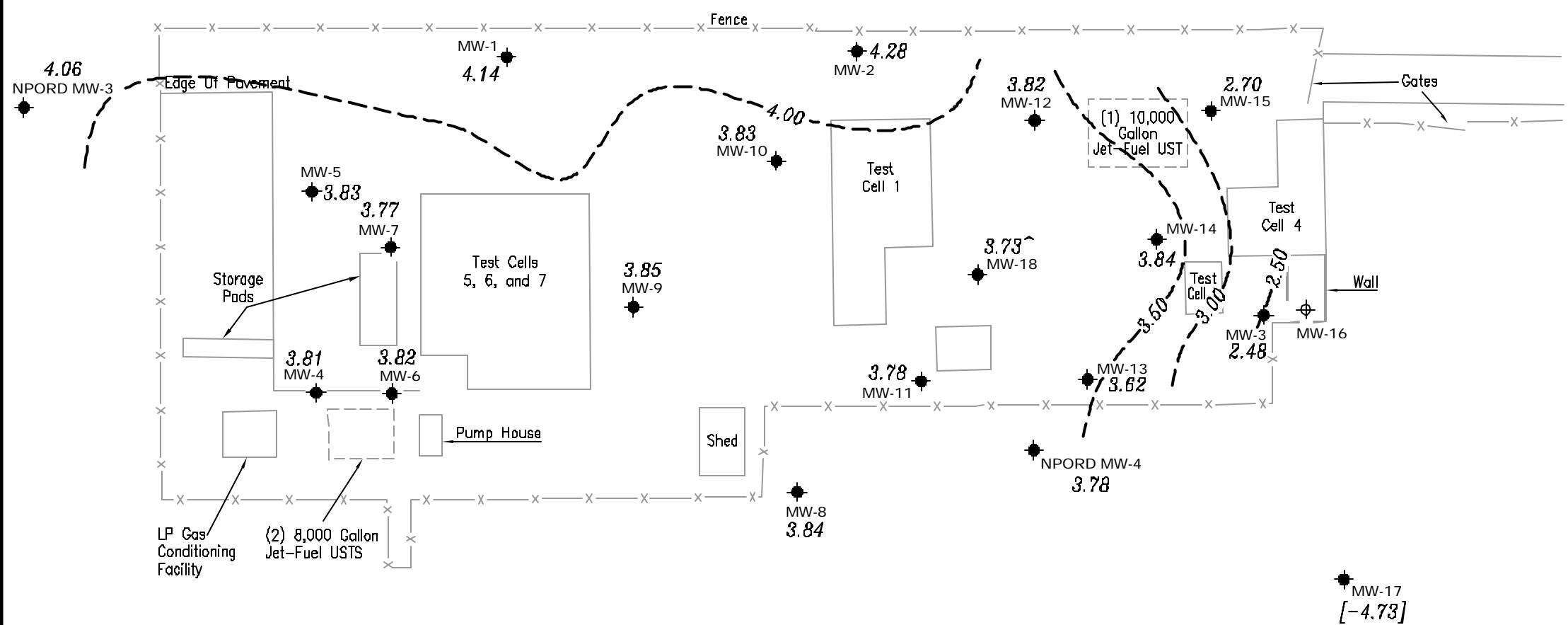
DATE September 25, 2008

REVIEWED BY _____

PROJECT NUMBER 948218.2

EXPLANATION

- Groundwater monitoring well
- ⊕ Proposed monitoring well – not installed location inaccessible by drill rig
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- Groundwater elevation contour, dashed where inferred
- [99.99] Not used in contouring
- ↗ Groundwater elevation corrected for the presence of separate-phase hydrocarbons



CONCENTRATION MAP
 Rolls-Royce Engine Services Test Facility
 6701 Old Elmhurst Road
 Oakland, CA

DATE September 25, 2008

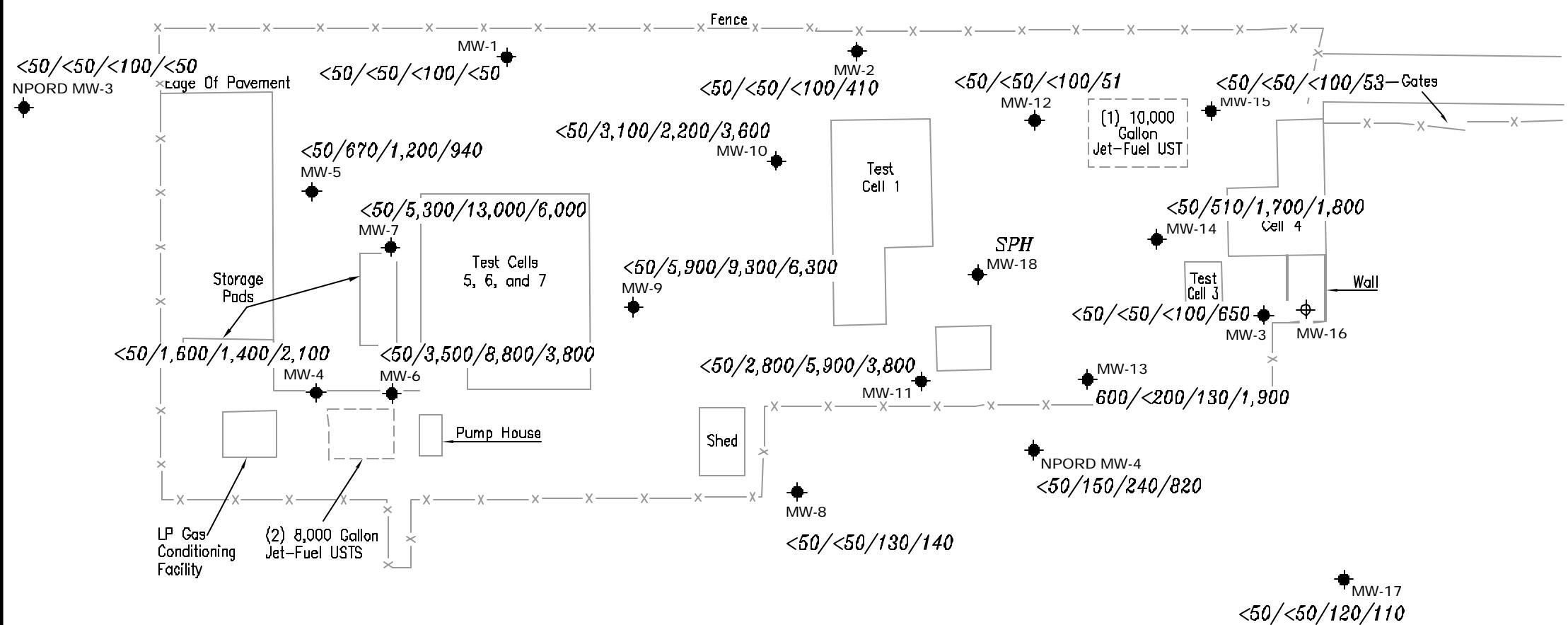
REVIEWED BY

GERTLER - RYAN INC.8747 Sierra Court, Suite J
 Dublin, CA 94568
 (925) 551-7555

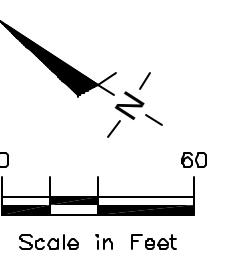
PROJECT NUMBER 948218.2

EXPLANATION

- Groundwater monitoring well
- ⊕ Proposed monitoring well – not installed location inaccessible by drill rig
- A/B/C/D** Total Petroleum Hydrocarbons
TPH as Gasoline/TPH as Diesel/
TPH as Motor Oil/TPH as Jet
Fuel concentrations in ppb
- SPH** Separate Phase Hydrocarbons



Source: Figure modified from drawing provided by Morrow Surveying, Dated: 10/8/07.



STANDARD OPERATING PROCEDURE - QUARTERLY GROUNDWATER SAMPLING

Gettler-Ryan field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analyses by the analytical laboratory. Prior to sample collection, the type of analyses to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analyses is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is recorded in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH, and electrical conductivity are measured a minimum of three times during purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include job number, sample identification, collection date and time, analyses, preservative (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4 °C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivery to the laboratory.

The chain of custody includes the job number, type of preservation, if any, analyses requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory-supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

WELL CONDITION STATUS SHEET

Client/Facility #: Rolls Royce Engine Test

Site Address: **6701 Old Earhart Road**

City: Oakland, CA

Job # **25-948218.1**

Event Date: 9/25/02

Sampler: JL

Comments

WELL CONDITION STATUS SHEET

Client/Facility #: Rolls Royce Engine Test

Site Address: 6701 Old Earhart Road

City: Oakland, CA

Job # 25-948218.1

Event Date: 9-25-08

Sampler: *AJW*

Comments

WELL CONDITION STATUS SHEET

Client/Facility #: **Rolls Royce Engine Test**

Site Address: 6701 Old Earhart Road

City: **Oakland, CA**

Job # 25-948218,1

Event Date: 9-25-08

Sampler: 7

Comments



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9-25-08 (inclusive)
 Sampler: SH

Well ID: MW-1
 Well Diameter: 214 in.
 Total Depth: 7.45 ft.
 Depth to Water: 3.03 ft.

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
--------------------	------------------------	----------------------	----------------------	-----------------------

Check if water column is less than 0.50 ft.
 $4.42 \times VF \frac{1}{1.7} = 0.75$ x3 case volume = Estimated Purge Volume: 2.25 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.91

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	(2400 hrs)
Time Completed:	(2400 hrs)
Depth to Product:	ft
Depth to Water:	ft
Hydrocarbon Thickness:	ft
Visual Confirmation/Description:	
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	gal
Amt Removed from Well:	gal
Water Removed:	
Product Transferred to:	

Start Time (purge): 1003

Weather Conditions: Clear

Sample Time/Date: 1030 19-25-08

Water Color: Clear Odor: Y/N

Approx. Flow Rate: _____ gpm.

Sediment Description: Layer

Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 3.91

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (μ mhos/cm - μ s)	Temperature ($^{\circ}$ F)	D.O. (mg/L)	ORP (mV)
<u>1010</u>	<u>1</u>	<u>6.93</u>	<u>out of range</u>	<u>17.1</u>		
<u>1013</u>	<u>2</u>	<u>7.01</u>		<u>17.3</u>		
<u>1017</u>	<u>2.5</u>	<u>7.05</u>	<u>N</u>	<u>17.2</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9-25-08 (inclusive)
 Sampler: sH

Well ID MW-2

Date Monitored: 9-25-08

Well Diameter 2.4 in.

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
--------------------	------------------------	----------------------	----------------------	-----------------------

Total Depth 11.80 ft.

Depth to Water 2.75 ft.

Check if water column is less than 0.50 ft.

9.05 xVF .17 = 1.54 x3 case volume = Estimated Purge Volume: 5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.65

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)

Time Completed: _____ (2400 hrs)

Depth to Product: _____ ft

Depth to Water: _____ ft

Hydrocarbon Thickness: _____ ft

Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)

Amt Removed from Skimmer: _____ gal

Amt Removed from Well: _____ gal

Water Removed: _____

Product Transferred to: _____

Start Time (purge): 1043

Weather Conditions: clear

Sample Time/Date: 1120 19-25-08

Water Color: Cloudy Odor: Y N

Approx. Flow Rate: _____ gpm.

Sediment Description: heavy

Did well de-water? NO If yes, Time: _____

Volume: _____ gal. DTW @ Sampling: 4.60

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ($\mu\text{mhos/cm}$ - μS)	Temperature ($^{\circ}$ F)	D.O. (mg/L)	ORP (mV)
<u>1049</u>	<u>1.5</u>	<u>7.98</u>	<u>out of Range</u>	<u>16.6</u>		
<u>1054</u>	<u>3.0</u>	<u>7.76</u>		<u>16.3</u>		
<u>1059</u>	<u>5.0</u>	<u>7.81</u>		<u>16.5</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>7</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9-25-08 (inclusive)
 Sampler: PN

Well ID: MW- 3
 Well Diameter: 214 in.
 Total Depth: 12.10 ft.
 Depth to Water: 4.25 ft.
7.85 xVF .17 = 1.33

Date Monitored: 9-25-08

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.
 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.82

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer
 Stack Pump
 Suction Pump
 Grundfos
 Peristaltic Pump
 QED Bladder Pump
 Other:

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer
 Discrete Bailer
 Peristaltic Pump
 QED Bladder Pump
 Other:

Time Started:	(2400 hrs)
Time Completed:	(2400 hrs)
Depth to Product:	ft
Depth to Water:	ft
Hydrocarbon Thickness:	ft
Visual Confirmation/Description:	
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	gal
Amt Removed from Well:	gal
Water Removed:	
Product Transferred to:	

Start Time (purge): 1230

Weather Conditions:

Sample Time/Date: 1305 / 9-25-08

Water Color: Yellow Odor: Y/N

Approx. Flow Rate: _____ gpm.

Sediment Description: Clear

Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.67

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ($\mu\text{mhos}/\text{cm} \cdot \mu\text{s}$)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
1236	1.5	7.19	3336	23.0		
1242	3.0	7.22	3413	23.2		
1250	4.0	7.24	3450	23.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 3	7 x vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9/25/08 (inclusive)
 Sampler: JH

Well ID MW- 4

Date Monitored: 9/25/08

Well Diameter 3 1/4 in.

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
--------------------	------------------------	----------------------	----------------------	-----------------------

Total Depth 9.89 ft.

Depth to Water 5.98 ft.

Check if water column is less than 0.50 ft.

3.91 xVF .17 = .66 x3 case volume = Estimated Purge Volume: 1.95 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.76

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description:
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1250

Weather Conditions: clear

Sample Time/Date: 1305 / 9/25/08

Water Color: cloudy Odor: Y N

Approx. Flow Rate: - gpm.

Sediment Description: light

Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.70

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (μ mhos/cm - μ s)	Temperature ($^{\circ}$ F)	D.O. (mg/L)	ORP (mV)
1252	.6	7.64	out of range	23.7		
1254	1.2	6.93		23.2		
1256	2	6.87	↓	23.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 4	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9/25/08 (inclusive)
 Sampler: 3H

Well ID	MW- 5	Date Monitored:	<u>9/25/08</u>
Well Diameter	<u>② 14</u> in.	Volume Factor (VF)	3/4"= 0.02 4"= 0.66
Total Depth	<u>9.90</u> ft.	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50
Depth to Water	<u>4.52</u> ft. <u>5.38</u>	x VF <u>.17</u> = <u>.91</u>	3"= 0.38 12"= 5.80
Check if water column is less than 0.50 ft.			
x3 case volume = Estimated Purge Volume: <u>2.74</u> gal.			
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>5.59</u>			
Purge Equipment:	Sampling Equipment:		
Disposable Bailer	X	Disposable Bailer	X
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Discrete Bailer	
Suction Pump		Peristaltic Pump	
Grundfos		QED Bladder Pump	
Peristaltic Pump		Other:	
QED Bladder Pump		Time Started: _____ (2400 hrs)	
Other:		Time Completed: _____ (2400 hrs)	
Depth to Product: _____ ft			
Depth to Water: _____ ft			
Hydrocarbon Thickness: _____ ft			
Visual Confirmation/Description:			
Skimmer / Absorbant Sock (circle one)			
Amt Removed from Skimmer: _____ gal			
Amt Removed from Well: _____ gal			
Water Removed: _____			
Product Transferred to: _____			

Start Time (purge): 1325 Weather Conditions: Clean
 Sample Time/Date: 1350 / 9/25/08 Water Color: cloudy Odor: Y/N
 Approx. Flow Rate: — gpm. Sediment Description: 1.5 ft
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.50

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (μmhos/cm - <u>S</u>)	Temperature (<u>°C</u> / <u>F</u>)	D.O. (mg/L)	ORP (mV)
1327	.9	6.82	out of range	22.4		
1330	1.08	6.80		22.1		
1332	2.75	6.77	↓	22.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 5	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: Water Reacted with HCl - HCl Rinse L.

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9/25/08 (inclusive)
 Sampler: JH

Well ID MW-6Date Monitored: 9/25/08Well Diameter 214 in.

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
--------------------	------------------------	----------------------	----------------------	-----------------------

Total Depth 10.00 ft.Depth to Water 5.69 ft. Check if water column is less than 0.50 ft.4.31 xVF .17 = .73 x3 case volume = Estimated Purge Volume: 2.19 gal.Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.55

Purge Equipment:

Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description:
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1220

Weather Conditions:

clearSample Time/Date: 1240 / 9/25/08Water Color: cloudyOdor: Y/NApprox. Flow Rate: — gpm.Sediment Description: lightDid well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.11

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ($\mu\text{mhos/cm}$ - S)	Temperature ($^{\circ}\text{F}$)	D.O. (mg/L)	ORP (mV)
<u>1223</u>	<u>.75</u>	<u>6.90</u>	<u>out of range</u>	<u>23.3</u>		
<u>1226</u>	<u>1.5</u>	<u>6.77</u>	<u>↓</u>	<u>23.1</u>		
<u>1229</u>	<u>2.25</u>	<u>7.72</u>		<u>23.7</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>7</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9/25/08 (inclusive)
 Sampler: JH

Well ID MW- 7

Date Monitored: 9/25/08

Well Diameter 24 in.

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
--------------------	------------------------	----------------------	----------------------	-----------------------

Total Depth 10.60 ft.

Depth to Water 5.46 ft.

4.54 xVF .17 = .77 x3 case volume = Estimated Purge Volume: 2.31 gal.

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.23

Purge Equipment:

Disposable Bailer ✓
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer ✓
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)

Time Completed: _____ (2400 hrs)

Depth to Product: _____ ft

Depth to Water: _____ ft

Hydrocarbon Thickness: _____ ft

Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)

Amt Removed from Skimmer: _____ gal

Amt Removed from Well: _____ gal

Water Removed: _____

Product Transferred to: _____

Start Time (purge): 1315

Weather Conditions:

Sunny

Sample Time/Date: 1350 9-25-08

Water Color: Black

Odor: Y 10

Approx. Flow Rate: — gpm.

Sediment Description:

Henry

Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.20

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1320</u>	<u>0.5</u>	<u>6.87</u>	<u>out of range</u>	<u>23.1</u>		
<u>1325</u>	<u>1.0</u>	<u>6.93</u>		<u>21.0</u>		
<u>1335</u>	<u>2.5</u>	<u>6.94</u>	<u>N</u>	<u>21.1</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW- 7</u>	<u>1</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	<u>TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEX/MTBE/NAPHTHALENE(8260)</u>

COMMENTS: _____

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9/25/08 (inclusive)
 Sampler: JH

Well ID: MW-8
 Well Diameter: 2 1/4 in.
 Total Depth: 9.79 ft.
 Depth to Water: 4.41 ft.
5.38 xVF .17 = .91

Date Monitored: 9/25/08

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
--------------------	------------------------	----------------------	----------------------	-----------------------

Check if water column is less than 0.50 ft.
 x3 case volume = Estimated Purge Volume: 2.74 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.48

Purge Equipment:
 Disposable Bailer X
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	(2400 hrs)
Time Completed:	(2400 hrs)
Depth to Product:	ft
Depth to Water:	ft
Hydrocarbon Thickness:	ft
Visual Confirmation/Description:	
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	gal
Amt Removed from Well:	gal
Water Removed:	_____
Product Transferred to:	

Start Time (purge): 1030

Sample Time/Date: 1100 19/25/08

Approx. Flow Rate: - gpm.

Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.26

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C) / F)	D.O. (mg/L)	ORP (mV)
1033	.75	7.02	old or range	23.2		
1036	1.5	6.94		23.1		
1039	2.75	6.79	✓	23.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	7 x voa vial	YES	none	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: water reacted with HCl in VOA's - HCl Rinse off -

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test

Job Number: 25-948218.1

Site Address: 6701 Old Earhart Road

Event Date: 9-25-08 (inclusive)

City: Oakland, CA

Sampler: ST

Well ID MW-9

Date Monitored: 9-25-08

Well Diameter 214 in.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Total Depth 9.97 ft.

Depth to Water 5.59 ft.

Check if water column is less than 0.50 ft.

4.38 xVF .17 = 0.75 x3 case volume = Estimated Purge Volume: 2.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.47

Purge Equipment:

Disposable Bailer X
Stainless Steel Bailer _____
Stack Pump _____
Suction Pump _____
Grundfos _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

Sampling Equipment:

Disposable Bailer X
Pressure Bailer _____
Discrete Bailer _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

Time Started: _____ (2400 hrs)

Time Completed: _____ (2400 hrs)

Depth to Product: _____ ft

Depth to Water: _____ ft

Hydrocarbon Thickness: _____ ft

Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)

Amt Removed from Skimmer: _____ gal

Amt Removed from Well: _____ gal

Water Removed: _____

Product Transferred to: _____

Start Time (purge): 1253

Weather Conditions:

clear

Sample Time/Date: 1320 9-25-08

Water Color: gray

Odor: Y/B

Approx. Flow Rate: _____ gpm.

Sediment Description:

Moderate

Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.3

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ($\mu\text{mhos/cm}^{\circ}\text{F}$)	Temperature ($^{\circ}\text{C}$ / $^{\circ}\text{F}$)	D.O. (mg/L)	ORP (mV)
<u>1256</u>	<u>1</u>	<u>7.61</u>	<u>2143</u>	<u>22.87</u>		
<u>1259</u>	<u>2</u>	<u>7.47</u>	<u>2107</u>	<u>17.5</u>		
<u>1304</u>	<u>2.9</u>	<u>7.59</u>	<u>2096</u>	<u>18.3</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>2</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9-25-08 (inclusive)
 Sampler: SH

Well ID MW-10

Date Monitored: 9-25-08

Well Diameter 24 in.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Total Depth 1013 ft.

Depth to Water 3.68 ft.

Check if water column is less than 0.50 ft.

6.45 xVF .17 = 1.10 x3 case volume = Estimated Purge Volume: 3.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.97

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started:	(2400 hrs)
Time Completed:	(2400 hrs)
Depth to Product:	ft
Depth to Water:	ft
Hydrocarbon Thickness:	ft
Visual Confirmation/Description:	
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	gal
Amt Removed from Well:	gal
Water Removed:	
Product Transferred to:	

Start Time (purge): 1132

Weather Conditions:

clear

Sample Time/Date: 1200 / 9-25-08

Water Color: Grey

Odor: Y N

Approx. Flow Rate: - gpm.

Sediment Description: moderate

Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 463

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (μ mhos/cm - μ S)	Temperature ($^{\circ}$ F)	D.O. (mg/L)	ORP (mV)
<u>1136</u>	<u>1</u>	<u>7.16</u>	<u>2523</u>	<u>17.7</u>		
<u>1140</u>	<u>2</u>	<u>7.77</u>	<u>2517</u>	<u>17.3</u>		
<u>1144</u>	<u>3.5</u>	<u>7.77</u>	<u>2506</u>	<u>17.1</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>2</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test

Job Number: 25-948218.1

Site Address: 6701 Old Earhart Road

Event Date: 9-25-08 (inclusive)

City: Oakland, CA

Sampler: SH

Well ID MW- 11

Date Monitored: 9-25-08

Well Diameter 214 in.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Total Depth 10.0 ft.

Depth to Water 3.82 ft.

Check if water column is less than 0.50 ft.

6.19 xVF .17 = 1.05 x3 case volume = Estimated Purge Volume: 3.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.06

Purge Equipment:

Disposable Bailer X
Stainless Steel Bailer _____
Stack Pump _____
Suction Pump _____
Grundfos _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

Sampling Equipment:

Disposable Bailer V
Pressure Bailer _____
Discrete Bailer _____
Peristaltic Pump _____
QED Bladder Pump _____
Other: _____

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: _____ gal
Water Removed: _____
Product Transferred to: _____

Start Time (purge): 1210

Weather Conditions: Clear

Sample Time/Date: 1240 9-25-08

Water Color: Dark Gray Odor: S / N

Approx. Flow Rate: - gpm.

Sediment Description: Heavy

Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 4173

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - DS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1217</u>	<u>1</u>	<u>7.36</u>	<u>3032</u>	<u>18.1</u>		
<u>1223</u>	<u>2</u>	<u>7.41</u>	<u>3033</u>	<u>17.6</u>		
<u>1224</u>	<u>3.5</u>	<u>7.57</u>	<u>3088</u>	<u>17.7</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 11	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9-25-08 (inclusive)
 Sampler: AW

Well ID: MW- 12

Well Diameter: 214 in.

Total Depth: 9.85 ft.

Depth to Water: 3.50 ft.

Check if water column is less than 0.50 ft.

6.35 xVF .17 = 1.08 x3 case volume = Estimated Purge Volume: 3.5 gal.

Date Monitored: 9-25-08

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
--------------------	------------------------	----------------------	----------------------	-----------------------

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.77

Purge Equipment:

Disposable Bailer

Stainless Steel Bailer

Stack Pump

Suction Pump

Grundfos

Peristaltic Pump

QED Bladder Pump

Other:

Sampling Equipment:

Disposable Bailer

Pressure Bailer

Discrete Bailer

Peristaltic Pump

QED Bladder Pump

Other:

Time Started: _____ (2400 hrs)

Time Completed: _____ (2400 hrs)

Depth to Product: _____ ft

Depth to Water: _____ ft

Hydrocarbon Thickness: _____ ft

Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)

Amt Removed from Skimmer: _____ gal

Amt Removed from Well: _____ gal

Water Removed: _____

Product Transferred to: _____

Start Time (purge): 10:50

Sample Time/Date: 11:15, 9-25-08

Approx. Flow Rate: _____ gpm.

Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 3.96

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm - ⁴⁵)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>1054</u>	<u>1.0</u>	<u>7.14</u>	<u>out of range</u>	<u>22.8</u>		
<u>1058</u>	<u>2.0</u>	<u>7.25</u>		<u>23.7</u>		
<u>1103</u>	<u>3.5</u>	<u>7.32</u>	<u>↓</u>	<u>24.2</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW- 12</u>	<u>7</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9-25-08 (inclusive)
 Sampler: An

Well ID: MW- 13
 Well Diameter: 2 1/4 in.
 Total Depth: 9.52 ft.
 Depth to Water: 2.46 ft.
7.04 xVF 1.66 = 4.64

Date Monitored:

9-25-08

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 14.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 3.88

Purge Equipment:

Disposable Bailer ✓
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer ✓
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)

Time Completed: _____ (2400 hrs)

Depth to Product: _____ ft

Depth to Water: _____ ft

Hydrocarbon Thickness: _____ ft

Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1200

Sample Time/Date: 1220 / 9-25-08

Approx. Flow Rate: 5 gpm.

Did well de-water? ✓ If yes, Time: 1210 Volume: 6.0 gal. DTW @ Sampling: 3.88

Weather Conditions:

Water Color: yellow Odor: o/n Slight

Sediment Description: clear

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ($\mu\text{mhos/cm}$)	Temperature ($^{\circ}\text{F}$)	D.O. (mg/L)	ORP (mV)
<u>1200</u>	<u>5.0</u>	<u>7.03</u>	<u>Out of range</u>	<u>70</u>	<u>23.5</u>	
<u>1205</u>	<u>10.0</u>					
<u>1210</u>	<u>14.0</u>					

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 13	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: H_2O reacted with HCl. Rinsed HCl from
voa.

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9-25-08 (inclusive)
 Sampler: An

Well ID MW- 14
 Well Diameter (2) 4 in.
 Total Depth 10.00 ft.
 Depth to Water 2.58 ft.
7.42 xVF .17 = 1.26

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
--------------------	------------------------	----------------------	----------------------	-----------------------

Check if water column is less than 0.50 ft.
 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 4.06

Purge Equipment:
 Disposable Bailer /
 Stainless Steel Bailer /
 Stack Pump /
 Suction Pump /
 Grundfos /
 Peristaltic Pump /
 QED Bladder Pump /
 Other: _____

Sampling Equipment:
 Disposable Bailer /
 Pressure Bailer /
 Discrete Bailer /
 Peristaltic Pump /
 QED Bladder Pump /
 Other: _____

Time Started:	(2400 hrs)
Time Completed:	(2400 hrs)
Depth to Product:	ft
Depth to Water:	ft
Hydrocarbon Thickness:	ft
Visual Confirmation/Description:	
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	gal
Amt Removed from Well:	gal
Water Removed:	_____
Product Transferred to:	

Start Time (purge): 1125
 Sample Time/Date: 1150 / 9-25-08
 Approx. Flow Rate: — gpm.
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 3.03

Weather Conditions: Sunny
 Water Color: Dark Odor: Y HK
 Sediment Description: Cloudy

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm- ¹)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
1130	1.5	7.69	out of range	23.5		
1135	7.0	7.72		27.6		
1140	9.0	7.75		23.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 14	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9-25-08 (inclusive)
 Sampler: AW

Well ID: MW- 15
 Well Diameter: 2 1/4 in.
 Total Depth: 9.95 ft.
 Depth to Water: 4.81 ft.
5.14 x VF .17 = 0.87

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
--------------------	------------------------	----------------------	----------------------	-----------------------

Check if water column is less than 0.50 ft.
 $x 3 \text{ case volume} = \text{Estimated Purge Volume: } 3.0 \text{ gal.}$

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.84

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer
 Stack Pump
 Suction Pump
 Grundfos
 Peristaltic Pump
 QED Bladder Pump
 Other:

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer
 Discrete Bailer
 Peristaltic Pump
 QED Bladder Pump
 Other:

Time Started:	(2400 hrs)
Time Completed:	(2400 hrs)
Depth to Product:	ft
Depth to Water:	ft
Hydrocarbon Thickness:	ft
Visual Confirmation/Description:	
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	gal
Amt Removed from Well:	gal
Water Removed:	
Product Transferred to:	

Start Time (purge): 0955
 Sample Time/Date: 1010 / 9-25-08
 Approx. Flow Rate: ✓ gpm.
 Did well de-water? N If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.63

Weather Conditions: Sunny
 Water Color: Cloudy Odor: Y/N
 Sediment Description: Cloudy

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - PS)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
0953	1.0	6.92	out of Range	24.1		
0956	7.0	7.06		24.3		
0959	7.0	7.08	↓	24.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 15	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9-25-08 (inclusive)
 Sampler: AW

Well ID: MW- 17
 Well Diameter: 12.14 in.
 Total Depth: 9.80 ft.
 Depth to Water: 4.77 ft.
5.03 xVF 17 = 0.85

Date Monitored: 9-25-08

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
--------------------	------------------------	----------------------	----------------------	-----------------------

Check if water column is less than 0.50 ft.
 $x3 \text{ case volume} = \text{Estimated Purge Volume: } 3.0 \text{ gal.}$

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.78

Purge Equipment:
 Disposable Bailer
 Stainless Steel Bailer
 Stack Pump
 Suction Pump
 Grundfos
 Peristaltic Pump
 QED Bladder Pump
 Other:

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer
 Discrete Bailer
 Peristaltic Pump
 QED Bladder Pump
 Other:

Time Started:	(2400 hrs)
Time Completed:	(2400 hrs)
Depth to Product:	ft
Depth to Water:	ft
Hydrocarbon Thickness:	ft
Visual Confirmation/Description:	
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	gal
Amt Removed from Well:	gal
Water Removed:	
Product Transferred to:	

Start Time (purge): 1015

Weather Conditions: Sunny

Sample Time/Date: 1040 / 9-25-08

Water Color: Yellow Odor: WTIN Slight sulfur

Approx. Flow Rate: — gpm.

Sediment Description: clear

Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 5.78

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm ²⁵)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
1020	1.0	7.24	out of range	22.4		
1025	2.0	7.26		22.6		
1030	3.0	7.26	✓	22.8		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 17	7 x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: H₂O reactive with HC/

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9-25-08 (inclusive)
 Sampler: SH

Well ID: MW-18
 Well Diameter: 214 in.
 Total Depth: 902 ft.
 Depth to Water: 3.77 ft.

Date Monitored: 9-25-08

Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80
--------------------	------------------------	----------------------	----------------------	-----------------------

Check if water column is less than 0.50 ft.

xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 1

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: 1330 (2400 hrs)
 Time Completed: 1350 (2400 hrs)
 Depth to Product: 3-21 ft
 Depth to Water: 3-77 ft
 Hydrocarbon Thickness: 0.56 ft
 Visual Confirmation/Description: Oil like, Black Thirst
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: 9 gal
 Amt Removed from Well: 9 gal
 Water Removed: 2 gal
 Product Transferred to: ON-SITE DUMP

Start Time (purge): _____
 Sample Time/Date: _____
 Approx. Flow Rate: _____ gpm.
 Did well de-water? _____ If yes, Time: _____

Weather Conditions:
 Water Color: _____ Odor: Y / N _____
 Sediment Description: _____
 Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (μ hos/cm - μ S)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV.	TYPE	LABORATORY	ANALYSES
MW-	x vial	YES		HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: SPH

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9/25/08 (inclusive)
 Sampler: JL

Well ID MW-NPord MW-3 Date Monitored: 9/25/08
 Well Diameter (3 1/4) in.
 Total Depth 16.38 ft.
 Depth to Water 4.06 ft.

$$12.32 \times VF .66 = 8.13$$
 x3 case volume = Estimated Purge Volume: 24.39 gal.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.52

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump X
 Suction Pump _____
 Grundfos _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Sampling Equipment:

Disposable Bailer X
 Pressure Bailer _____
 Discrete Bailer _____
 Peristaltic Pump _____
 QED Bladder Pump _____
 Other: _____

Time Started: _____ (2400 hrs)
 Time Completed: _____ (2400 hrs)
 Depth to Product: _____ ft
 Depth to Water: _____ ft
 Hydrocarbon Thickness: _____ ft
 Visual Confirmation/Description:
 Skimmer / Absorbant Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____
 Product Transferred to: _____

Start Time (purge): 1120

Weather Conditions:

clear

Sample Time/Date: 1200 / 9/25/08

Water Color: clear

Odor: Y/N

Approx. Flow Rate: 1 gpm.

Sediment Description:

none

Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.44

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - 19)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1128</u>	<u>8</u>	<u>6.76</u>	<u>645.8 PPM</u>	<u>22.7</u>		
<u>1136</u>	<u>16</u>	<u>6.70</u>		<u>22.2</u>		
<u>1144</u>	<u>24</u>	<u>6.59</u>	<u>↓</u>	<u>22.1</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	<u>7</u> x voa vial	YES	HCL	KIFF	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: (2) Tubes in well

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



GETTLER - RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Rolls Royce Engine Test
 Site Address: 6701 Old Earhart Road
 City: Oakland, CA

Job Number: 25-948218.1
 Event Date: 9/25/08 (inclusive)
 Sampler: SH

Well ID	<u>NPORDMW-4</u>					Date Monitored:	<u>9/25/08</u>	
Well Diameter	<u>2 1/4</u> in.	Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80		
Total Depth	<u>18.23</u> ft.							
Depth to Water	<u>6.28</u> ft.	<input type="checkbox"/> Check if water column is less than 0.50 ft.						
	<u>11.95</u>	x VF <u>.17</u>	= <u>2.03</u>	x3 case volume = Estimated Purge Volume:			<u>6.09</u> gal.	
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>8.67</u>								
Purge Equipment:	Sampling Equipment:							
Disposable Bailer	<input checked="" type="checkbox"/>	Disposable Bailer	<input checked="" type="checkbox"/>					
Stainless Steel Bailer	<input type="checkbox"/>	Pressure Bailer	<input type="checkbox"/>					
Stack Pump	<input type="checkbox"/>	Discrete Bailer	<input type="checkbox"/>					
Suction Pump	<input type="checkbox"/>	Peristaltic Pump	<input type="checkbox"/>					
Grundfos	<input type="checkbox"/>	QED Bladder Pump	<input type="checkbox"/>					
Peristaltic Pump	<input type="checkbox"/>	Other:	<input type="checkbox"/>					
QED Bladder Pump	<input type="checkbox"/>							
Other:	<input type="checkbox"/>							
<div style="border: 1px solid black; padding: 5px;"> Time Started: _____ (2400 hrs) Time Completed: _____ (2400 hrs) Depth to Product: _____ ft Depth to Water: _____ ft Hydrocarbon Thickness: _____ ft Visual Confirmation/Description: Skimmer / Absorbant Sock (circle one) Amt Removed from Skimmer: _____ gal Amt Removed from Well: _____ gal Water Removed: _____ Product Transferred to: _____ </div>								

Start Time (purge): 0950
 Sample Time/Date: 1015 / 9/25/08
 Approx. Flow Rate: — gpm.
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.01

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ($\mu\text{mhos}/\text{cm}$)	Temperature ($^{\circ}\text{C}$ / $^{\circ}\text{F}$)	D.O. (mg/L)	ORP (mV)
<u>0955</u>	<u>2</u>	<u>6.84</u>	<u>OUT OF RANGE</u>	<u>22.4</u>		
<u>1000</u>	<u>4</u>	<u>6.79</u>		<u>22.2</u>		
<u>1005</u>	<u>6</u>	<u>6.62</u>	<u>↓</u>	<u>22.0</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>NPORDMW-4</u>	<u>7</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>KIFF</u>	TPH-JET FUEL/TPH-MO/TPH-D w/sg(8015)/ TPH-G/BTEX/MTBE/NAPHTHALENE(8260)

COMMENTS: (2) Tubew 17 well

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



Report Number : 65028

Date : 10/03/2008

Geoffrey Risse
Gettler-Ryan Inc.
3140 Gold Camp Dr. Suite 170
Rancho Cordova, CA 95670

Subject : 19 Water Samples
Project Name : Rolls-Royce Engine Test Facility
Project Number : 25-948218.1

Dear Mr. Risse,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff".

Joel Kiff



Report Number : 65028

Date : 10/03/2008

Subject : 19 Water Samples
Project Name : Rolls-Royce Engine Test Facility
Project Number : 25-948218.1

Case Narrative

Sample MW-17 was analyzed by EPA Method 8260B using bottles that contained headspace bubbles greater than 1/4 inch in diameter.

Matrix Spike/Matrix Spike Duplicate results associated with sample NPORDMW-4 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : MW-1

Matrix : Water

Lab Number : 65028-01

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	09/30/2008
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	10/01/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	89.7		% Recovery	M EPA 8015	09/30/2008
Octacosane (Diesel Surrogate)	102		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : MW-2

Matrix : Water

Lab Number : 65028-02

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	98.5		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	10/02/2008
TPH as Jet Fuel	410	50	ug/L	M EPA 8015	10/01/2008
(Note: Chromatographic pattern not typical for Jet Fuel.)					
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	108		% Recovery	M EPA 8015	10/02/2008
Octacosane (Diesel Surrogate)	113		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : MW-3

Matrix : Water

Lab Number : 65028-03

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	1.2	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	09/30/2008
TPH as Jet Fuel	650	50	ug/L	M EPA 8015	10/01/2008
(Note: Chromatographic pattern not typical for Jet Fuel.)					
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	98.8		% Recovery	M EPA 8015	09/30/2008
Octacosane (Diesel Surrogate)	107		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : MW-4

Matrix : Water

Lab Number : 65028-04

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	1600	50	ug/L	M EPA 8015	10/01/2008
TPH as Jet Fuel	2100	50	ug/L	M EPA 8015	10/01/2008
(Note: Chromatographic pattern not typical for Jet Fuel.)					
TPH as Motor Oil	1400	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	106		% Recovery	M EPA 8015	10/01/2008
Octacosane (Diesel Surrogate)	113		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : MW-6

Matrix : Water

Lab Number : 65028-05

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	3500	50	ug/L	M EPA 8015	10/01/2008
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	3800	50	ug/L	M EPA 8015	10/01/2008
(Note: Chromatographic pattern not typical for Jet Fuel.)					
TPH as Motor Oil	8800	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	109		% Recovery	M EPA 8015	10/01/2008
Octacosane (Diesel Surrogate)	108		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : MW-7

Matrix : Water

Lab Number : 65028-06

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	0.98	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	5300	50	ug/L	M EPA 8015	10/01/2008
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	6000	50	ug/L	M EPA 8015	10/01/2008
(Note: Chromatographic pattern not typical for Jet Fuel.)					
TPH as Motor Oil	13000	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	108		% Recovery	M EPA 8015	10/01/2008
Octacosane (Diesel Surrogate)	76.2		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : MW-9

Matrix : Water

Lab Number : 65028-07

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	99.7		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	5900	50	ug/L	M EPA 8015	10/01/2008
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	6300	100	ug/L	M EPA 8015	10/01/2008
(Note: Chromatographic pattern not typical for Jet Fuel.)					
TPH as Motor Oil	9300	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	118		% Recovery	M EPA 8015	10/01/2008
Octacosane (Diesel Surrogate)	98.6		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : MW-10

Matrix : Water

Lab Number : 65028-08

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	3100	50	ug/L	M EPA 8015	10/01/2008
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	3600	50	ug/L	M EPA 8015	10/01/2008
TPH as Motor Oil	2200	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	97.1		% Recovery	M EPA 8015	10/01/2008
Octacosane (Diesel Surrogate)	112		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : MW-11

Matrix : Water

Lab Number : 65028-09

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	2800	50	ug/L	M EPA 8015	10/01/2008
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	3800	50	ug/L	M EPA 8015	10/01/2008
(Note: Chromatographic pattern not typical for Jet Fuel.)					
TPH as Motor Oil	5900	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	106		% Recovery	M EPA 8015	10/01/2008
Octacosane (Diesel Surrogate)	98.5		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : MW-12

Matrix : Water

Lab Number : 65028-10

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	10/01/2008
TPH as Jet Fuel	51	50	ug/L	M EPA 8015	10/01/2008
(Note: Chromatographic pattern not typical for Jet Fuel.)					
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	99.8		% Recovery	M EPA 8015	10/01/2008
Octacosane (Diesel Surrogate)	99.8		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : MW-14

Matrix : Water

Lab Number : 65028-11

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	1.0	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	99.8		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	510	50	ug/L	M EPA 8015	10/01/2008
(Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.)					
TPH as Jet Fuel	1800	50	ug/L	M EPA 8015	10/01/2008
(Note: Chromatographic pattern not typical for Jet Fuel.)					
TPH as Motor Oil	1700	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	109		% Recovery	M EPA 8015	10/01/2008
Octacosane (Diesel Surrogate)	107		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : MW-15

Matrix : Water

Lab Number : 65028-12

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	99.5		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	10/01/2008
TPH as Jet Fuel	53	50	ug/L	M EPA 8015	10/01/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	104		% Recovery	M EPA 8015	10/01/2008
Octacosane (Diesel Surrogate)	103		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : NPORDMW-3

Matrix : Water

Lab Number : 65028-13

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	97.2		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	10/01/2008
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	10/01/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	98.7		% Recovery	M EPA 8015	10/01/2008
Octacosane (Diesel Surrogate)	100		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : NPORDMW-4

Matrix : Water

Lab Number : 65028-14

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/02/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/02/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/02/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/02/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/02/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/02/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/02/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	10/02/2008
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/02/2008
4-Bromofluorobenzene (Surr)	86.1		% Recovery	EPA 8260B	10/02/2008
TPH as Diesel (Silica Gel)	150	50	ug/L	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	820	50	ug/L	M EPA 8015	10/01/2008
(Note: Chromatographic pattern not typical for Jet Fuel.)					
TPH as Motor Oil	240	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	100		% Recovery	M EPA 8015	10/01/2008
Octacosane (Diesel Surrogate)	105		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : QA

Matrix : Water

Lab Number : 65028-15

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	10/01/2008
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	10/02/2008
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	10/01/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	118		% Recovery	M EPA 8015	10/02/2008
Octacosane (Diesel Surrogate)	106		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : MW-5

Matrix : Water

Lab Number : 65028-16

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	99.2		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	09/29/2008
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	670	50	ug/L	M EPA 8015	10/01/2008
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
TPH as Jet Fuel	940	50	ug/L	M EPA 8015	10/01/2008
(Note: Chromatographic pattern not typical for Jet Fuel.)					
TPH as Motor Oil	1200	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	100		% Recovery	M EPA 8015	10/01/2008
Octacosane (Diesel Surrogate)	104		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : MW-8

Matrix : Water

Lab Number : 65028-17

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/29/2008
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	10/01/2008
TPH as Jet Fuel	140	50	ug/L	M EPA 8015	10/01/2008
(Note: Chromatographic pattern not typical for Jet Fuel.)					
TPH as Motor Oil	130	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	104		% Recovery	M EPA 8015	10/01/2008
Octacosane (Diesel Surrogate)	105		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : MW-13

Matrix : Water

Lab Number : 65028-18

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.2	0.50	ug/L	EPA 8260B	09/29/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Methyl-t-butyl ether (MTBE)	2.9	0.50	ug/L	EPA 8260B	09/29/2008
TPH as Gasoline	600	50	ug/L	EPA 8260B	09/29/2008
Naphthalene	11	0.50	ug/L	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	09/29/2008
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	09/29/2008
TPH as Diesel (Silica Gel)	< 200	200	ug/L	M EPA 8015	10/01/2008
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
TPH as Jet Fuel	1900	50	ug/L	M EPA 8015	10/01/2008
(Note: Chromatographic pattern not typical for Jet Fuel.)					
TPH as Motor Oil	130	100	ug/L	M EPA 8015	10/01/2008
(Note: Hydrocarbons are lower-boiling than typical Motor Oil)					
Octacosane (Silica Gel Surr)	99.7		% Recovery	M EPA 8015	10/01/2008
Octacosane (Diesel Surrogate)	103		% Recovery	M EPA 8015	10/01/2008



Report Number : 65028

Date : 10/03/2008

Project Name : Rolls-Royce Engine Test Facility

Project Number : 25-948218.1

Sample : MW-17

Matrix : Water

Lab Number : 65028-19

Sample Date : 09/25/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/27/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/27/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/27/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/27/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/27/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/27/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	09/27/2008
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	09/27/2008
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	10/01/2008
TPH as Jet Fuel	110	50	ug/L	M EPA 8015	10/01/2008
(Note: Chromatographic pattern not typical for Jet Fuel.)					
TPH as Motor Oil	120	100	ug/L	M EPA 8015	10/01/2008
Octacosane (Silica Gel Surr)	99.6		% Recovery	M EPA 8015	10/01/2008
Octacosane (Diesel Surrogate)	101		% Recovery	M EPA 8015	10/01/2008

Report Number : 65028

Date : 10/03/2008

QC Report : Method Blank Data**Project Name : Rolls-Royce Engine Test Facility****Project Number : 25-948218.1**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	09/30/2008
TPH as Jet Fuel	< 50	50	ug/L	M EPA 8015	09/30/2008
TPH as Motor Oil	< 100	100	ug/L	M EPA 8015	09/30/2008
Octacosane (Diesel Surrogate)	99.9		%	M EPA 8015	09/30/2008
Octacosane (Silica Gel Surr)	97.8		%	M EPA 8015	09/30/2008
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	10/02/2008
Octacosane (Silica Gel Surr)	105		%	M EPA 8015	10/02/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	99.6		%	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	87.2		%	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	101		%	EPA 8260B	10/01/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/27/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/27/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/27/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/27/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/27/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/27/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/27/2008
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	09/27/2008
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	09/27/2008
Toluene - d8 (Surr)	99.6		%	EPA 8260B	09/27/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	09/29/2008
4-Bromofluorobenzene (Surr)	98.7		%	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	99.3		%	EPA 8260B	09/29/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/30/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/30/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/30/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/30/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/30/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/30/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/30/2008
1,2-Dichloroethane-d4 (Surr)	99.2		%	EPA 8260B	09/30/2008
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	09/30/2008
Toluene - d8 (Surr)	99.0		%	EPA 8260B	09/30/2008

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Report Number : 65028

Date : 10/03/2008

QC Report : Method Blank Data**Project Name : Rolls-Royce Engine Test Facility****Project Number : 25-948218.1**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	09/29/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	09/29/2008
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	09/29/2008
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	09/29/2008
Toluene - d8 (Surr)	99.6		%	EPA 8260B	09/29/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	99.1		%	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	98.6		%	EPA 8260B	10/01/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/01/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/01/2008
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	10/01/2008
4-Bromofluorobenzene (Surr)	103		%	EPA 8260B	10/01/2008
Toluene - d8 (Surr)	98.2		%	EPA 8260B	10/01/2008

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Project Name : Rolls-Royce Engine Test

Project Number : 25-948218.1

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)	BLANK	<50	1000	1000	933	1000	ug/L	M EPA 8015	9/30/08	93.3	100	7.16	70-130	25
TPH as Diesel	BLANK	<50	1000	1000	855	944	ug/L	M EPA 8015	9/30/08	85.5	94.4	9.88	70-130	25
Benzene	65047-04	<0.50	40.1	40.1	43.5	39.7	ug/L	EPA 8260B	10/1/08	108	99.0	8.96	70-130	25
Methyl-t-butyl ether	65047-04	380	39.6	39.6	430	397	ug/L	EPA 8260B	10/1/08	127	46.5	93.0	70-130	25
Toluene	65047-04	<0.50	39.5	39.5	41.5	38.3	ug/L	EPA 8260B	10/1/08	105	96.8	8.05	70-130	25
Benzene	64978-06	<0.50	40.1	40.1	40.6	39.7	ug/L	EPA 8260B	9/27/08	101	98.8	2.44	70-130	25
Methyl-t-butyl ether	64978-06	<0.50	40.1	40.1	38.6	38.7	ug/L	EPA 8260B	9/27/08	96.4	96.6	0.159	70-130	25
Toluene	64978-06	0.59	39.5	39.5	40.8	39.8	ug/L	EPA 8260B	9/27/08	102	99.1	2.57	70-130	25
Benzene	64995-04	<0.50	40.1	40.1	39.4	39.3	ug/L	EPA 8260B	9/29/08	98.1	98.0	0.169	70-130	25
Methyl-t-butyl ether	64995-04	0.60	40.1	40.1	41.6	41.4	ug/L	EPA 8260B	9/29/08	102	102	0.616	70-130	25
Toluene	64995-04	<0.50	39.5	39.5	39.7	39.7	ug/L	EPA 8260B	9/29/08	100	100	0.00886	70-130	25
Benzene	65037-01	<0.50	40.1	40.1	40.9	40.1	ug/L	EPA 8260B	9/30/08	102	100	1.84	70-130	25
Methyl-t-butyl ether	65037-01	<0.50	39.6	39.6	41.9	41.6	ug/L	EPA 8260B	9/30/08	106	105	0.645	70-130	25
Toluene	65037-01	<0.50	39.5	39.5	40.7	40.7	ug/L	EPA 8260B	9/30/08	103	103	0.0182	70-130	25
Benzene	65008-04	<0.50	40.1	40.1	38.4	37.4	ug/L	EPA 8260B	9/29/08	95.6	93.2	2.56	70-130	25
Methyl-t-butyl ether	65008-04	15	40.1	40.1	55.8	53.9	ug/L	EPA 8260B	9/29/08	100	95.8	4.76	70-130	25
Toluene	65008-04	0.53	39.5	39.5	38.2	37.2	ug/L	EPA 8260B	9/29/08	95.3	92.8	2.56	70-130	25

Report Number : 65028

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 10/03/2008

Project Name : **Rolls-Royce Engine Test**Project Number : **25-948218.1**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	65034-04	<0.50	40.1	40.1	38.5	37.8	ug/L	EPA 8260B	9/30/08	95.9	94.2	1.75	70-130	25
Methyl-t-butyl ether	65034-04	8.2	39.6	39.6	51.6	50.7	ug/L	EPA 8260B	9/30/08	109	107	1.94	70-130	25
Toluene	65034-04	<0.50	39.5	39.5	37.9	37.0	ug/L	EPA 8260B	9/30/08	95.8	93.5	2.47	70-130	25
Benzene	65060-12	<0.50	40.1	40.1	38.7	37.0	ug/L	EPA 8260B	10/1/08	96.4	92.1	4.54	70-130	25
Methyl-t-butyl ether	65060-12	<0.50	39.6	39.6	43.1	42.4	ug/L	EPA 8260B	10/1/08	109	107	1.64	70-130	25
Toluene	65060-12	<0.50	39.5	39.5	38.3	36.4	ug/L	EPA 8260B	10/1/08	96.9	92.2	4.95	70-130	25
TPH-D (Si Gel)	BLANK	<50	1000	1000	1050	1050	ug/L	M EPA 8015	10/2/08	105	105	0.381	70-130	25

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Project Name : **Rolls-Royce Engine Test**Project Number : **25-948218.1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	10/1/08	110	70-130
Methyl-t-butyl ether	39.6	ug/L	EPA 8260B	10/1/08	96.5	70-130
Toluene	40.0	ug/L	EPA 8260B	10/1/08	108	70-130
Benzene	39.8	ug/L	EPA 8260B	9/27/08	99.9	70-130
Methyl-t-butyl ether	39.9	ug/L	EPA 8260B	9/27/08	93.4	70-130
Toluene	39.8	ug/L	EPA 8260B	9/27/08	102	70-130
Benzene	39.8	ug/L	EPA 8260B	9/29/08	102	70-130
Methyl-t-butyl ether	39.9	ug/L	EPA 8260B	9/29/08	99.9	70-130
Toluene	39.8	ug/L	EPA 8260B	9/29/08	103	70-130
Benzene	39.9	ug/L	EPA 8260B	9/30/08	103	70-130
Methyl-t-butyl ether	39.5	ug/L	EPA 8260B	9/30/08	102	70-130
Toluene	39.9	ug/L	EPA 8260B	9/30/08	105	70-130
Benzene	40.0	ug/L	EPA 8260B	9/29/08	97.5	70-130
Methyl-t-butyl ether	40.1	ug/L	EPA 8260B	9/29/08	105	70-130
Toluene	40.0	ug/L	EPA 8260B	9/29/08	97.5	70-130
Benzene	40.2	ug/L	EPA 8260B	9/30/08	96.8	70-130

Report Number : 65028

QC Report : Laboratory Control Sample (LCS)

Date : 10/03/2008

Project Name : **Rolls-Royce Engine Test**

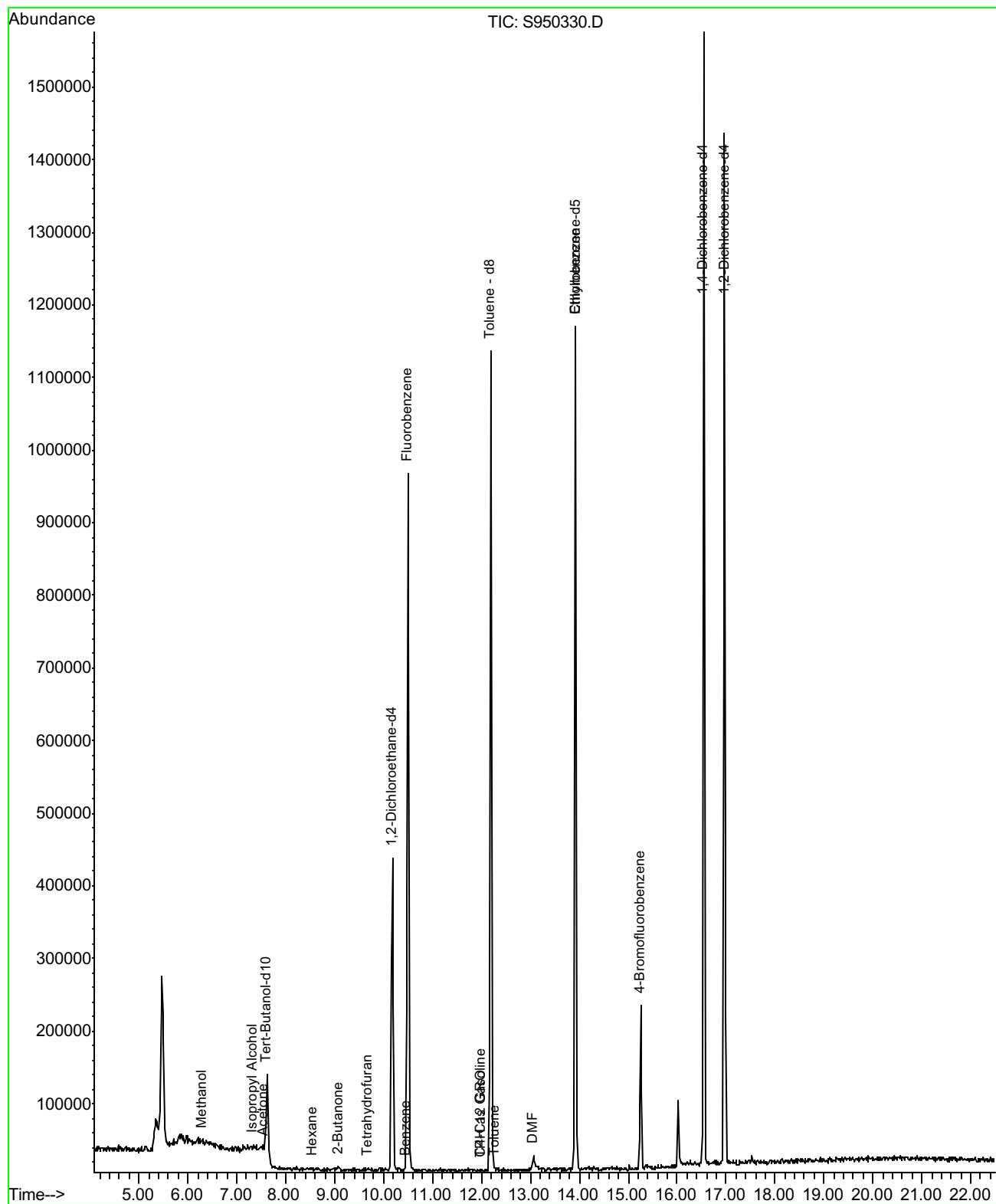
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Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Methyl-t-butyl ether	39.8	ug/L	EPA 8260B	9/30/08	107	70-130
Toluene	40.2	ug/L	EPA 8260B	9/30/08	96.8	70-130
Benzene	40.2	ug/L	EPA 8260B	10/1/08	98.4	70-130
Methyl-t-butyl ether	39.8	ug/L	EPA 8260B	10/1/08	105	70-130
Toluene	40.2	ug/L	EPA 8260B	10/1/08	97.7	70-130

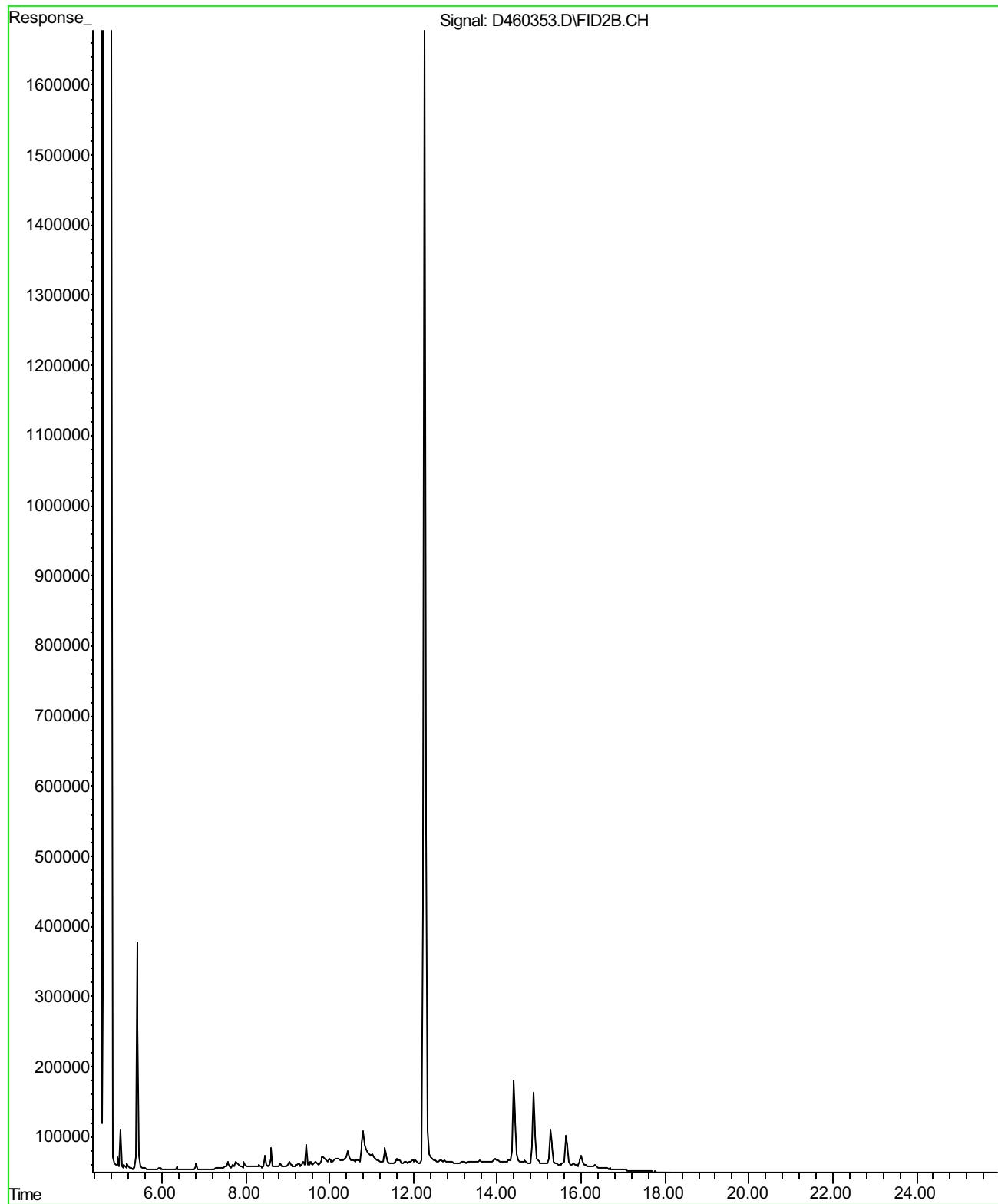
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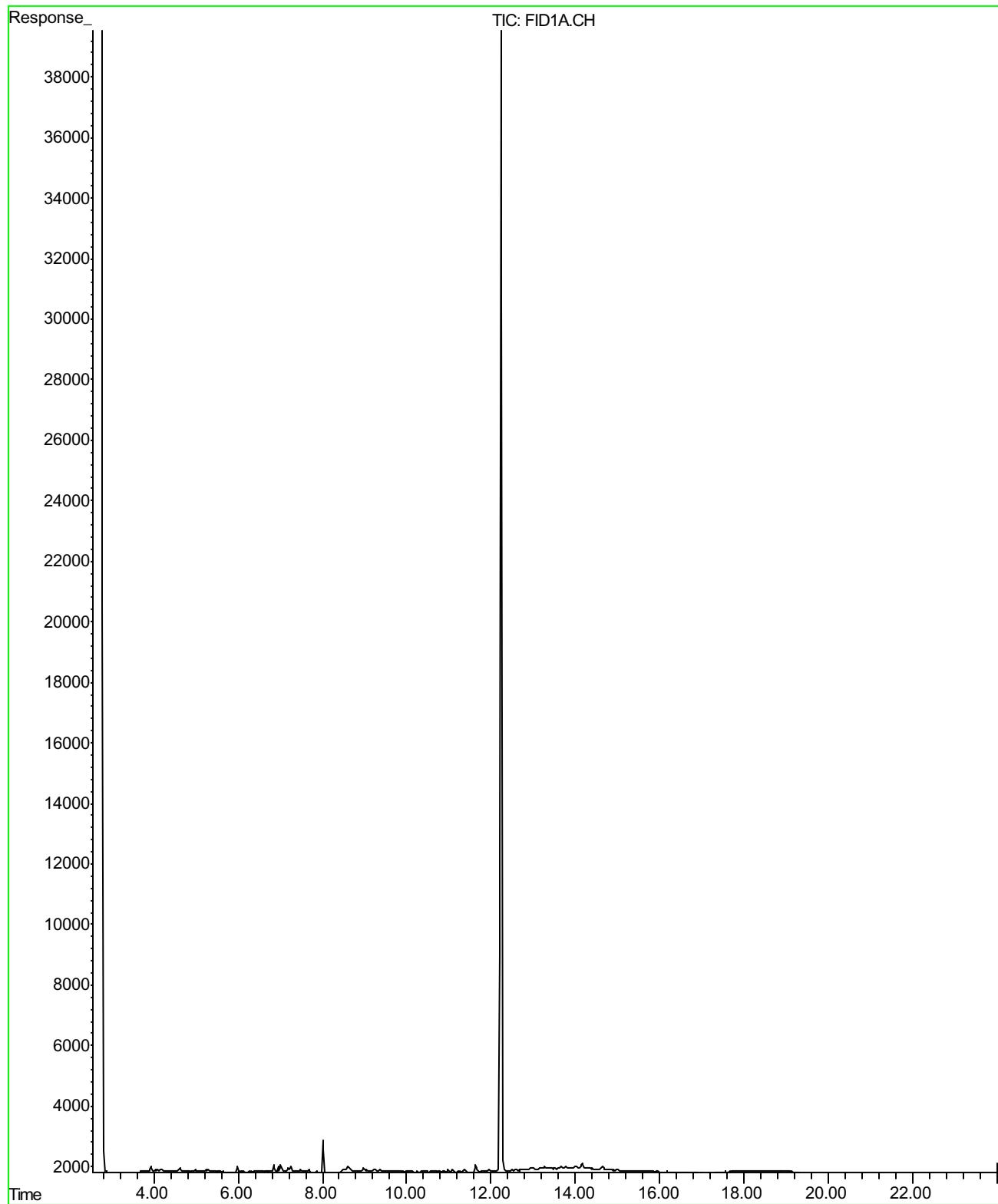
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Date Analyzed : 10/01/2008
Data File : S950330
Analysis Method : EPA 8260B



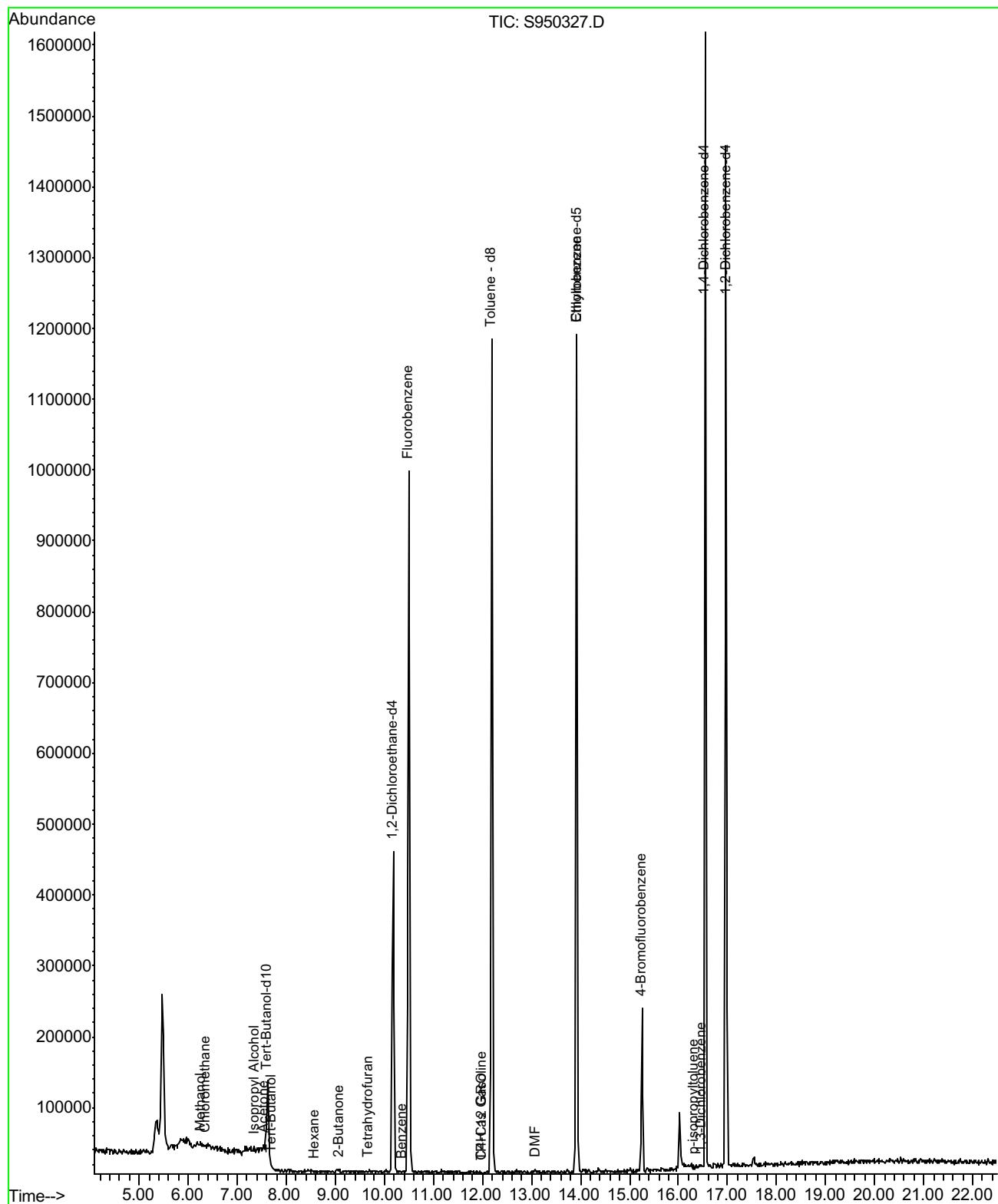
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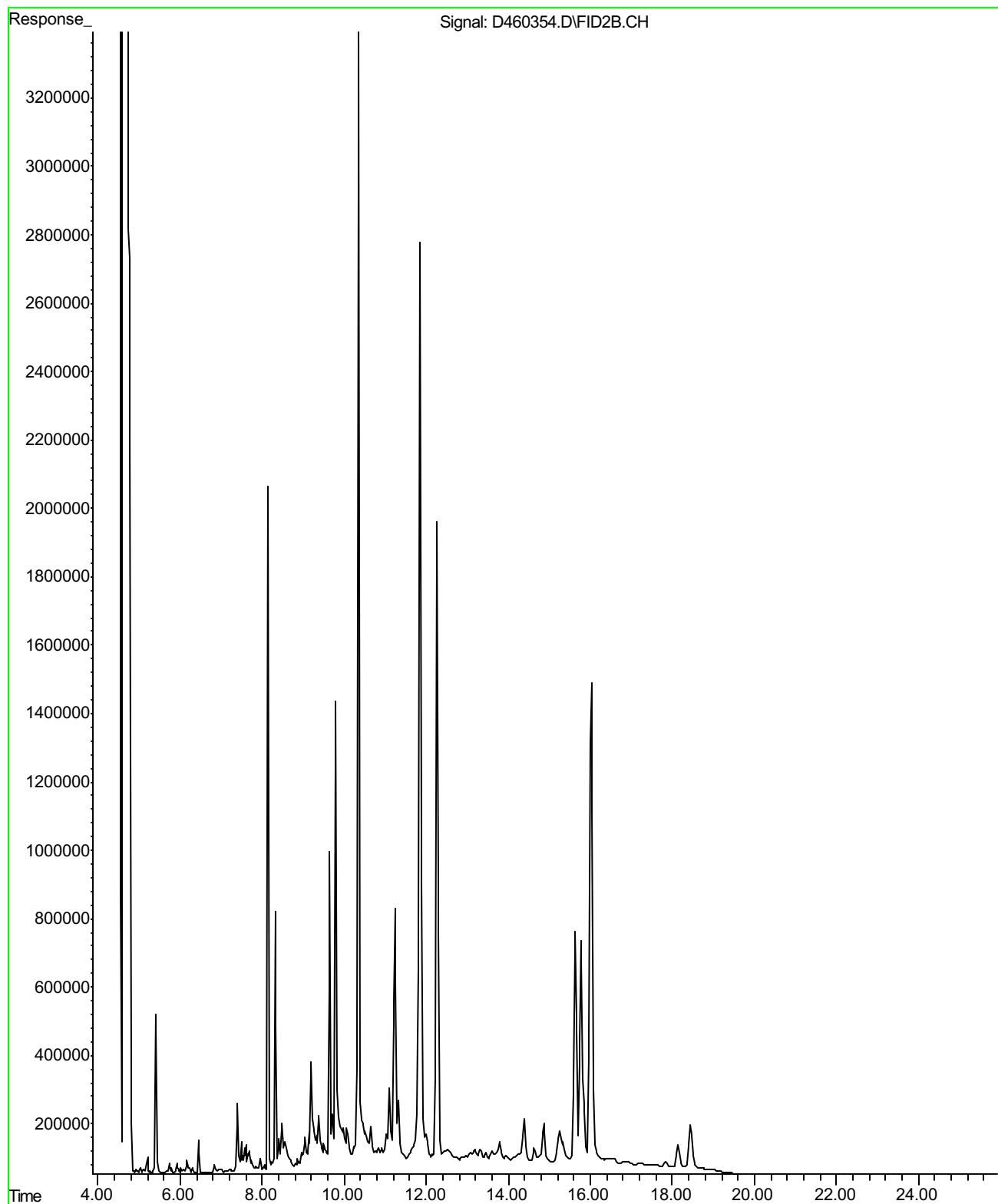
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Date Analyzed : 09/30/2008
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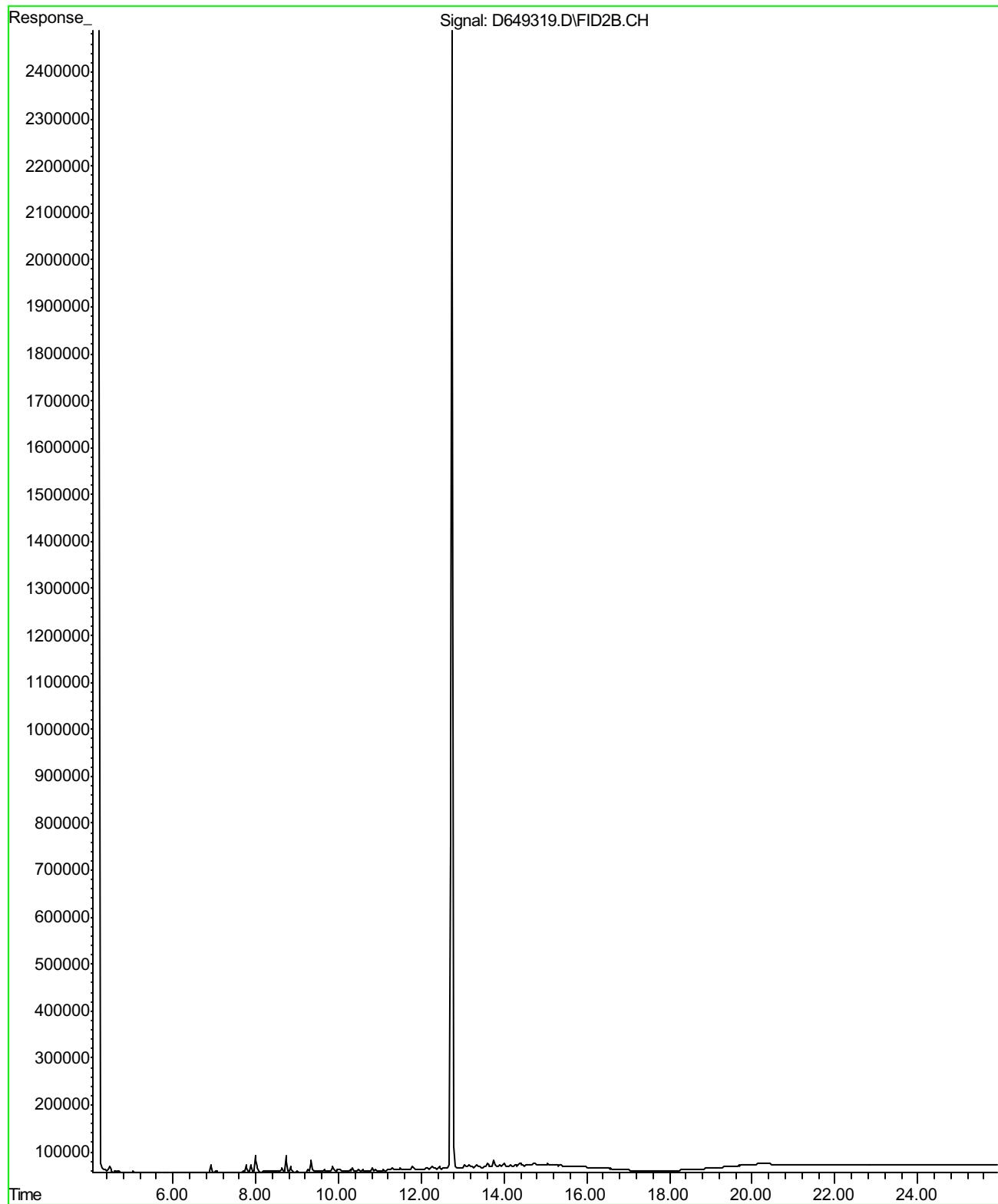
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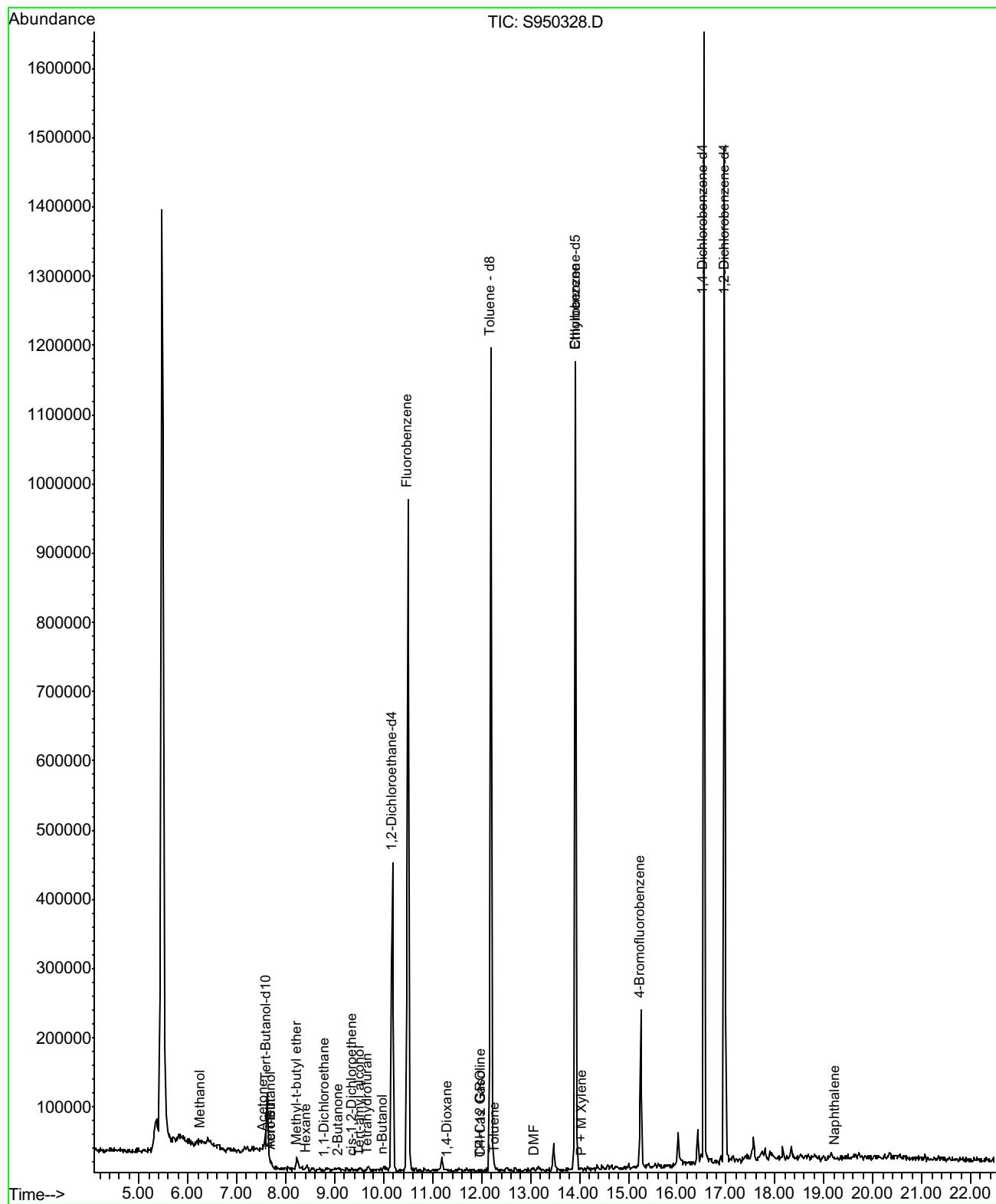
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Analysis Method : M EPA 8015



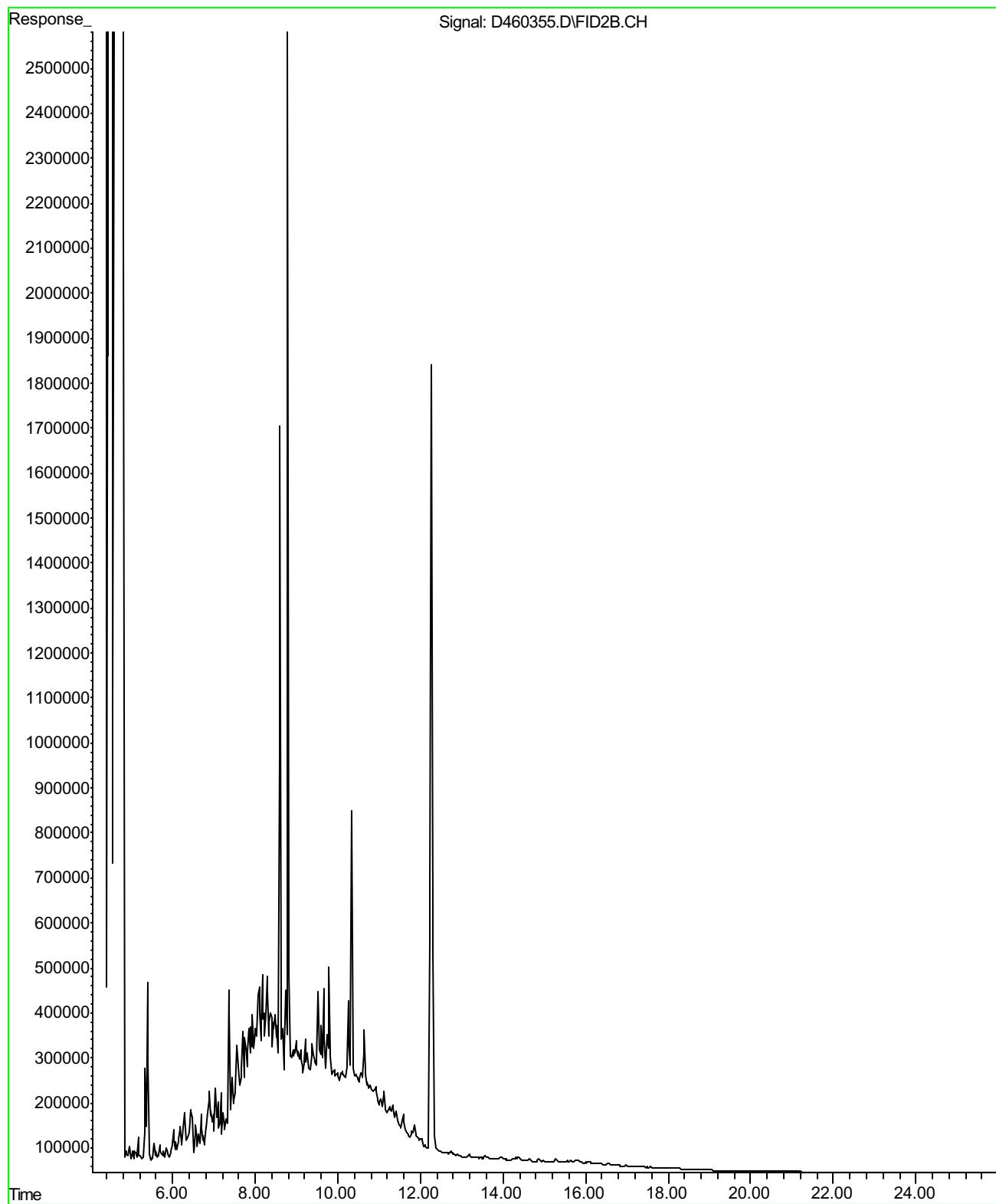
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Date Analyzed : 10/02/2008
Data File : D649319
Analysis Method : M EPA 8015



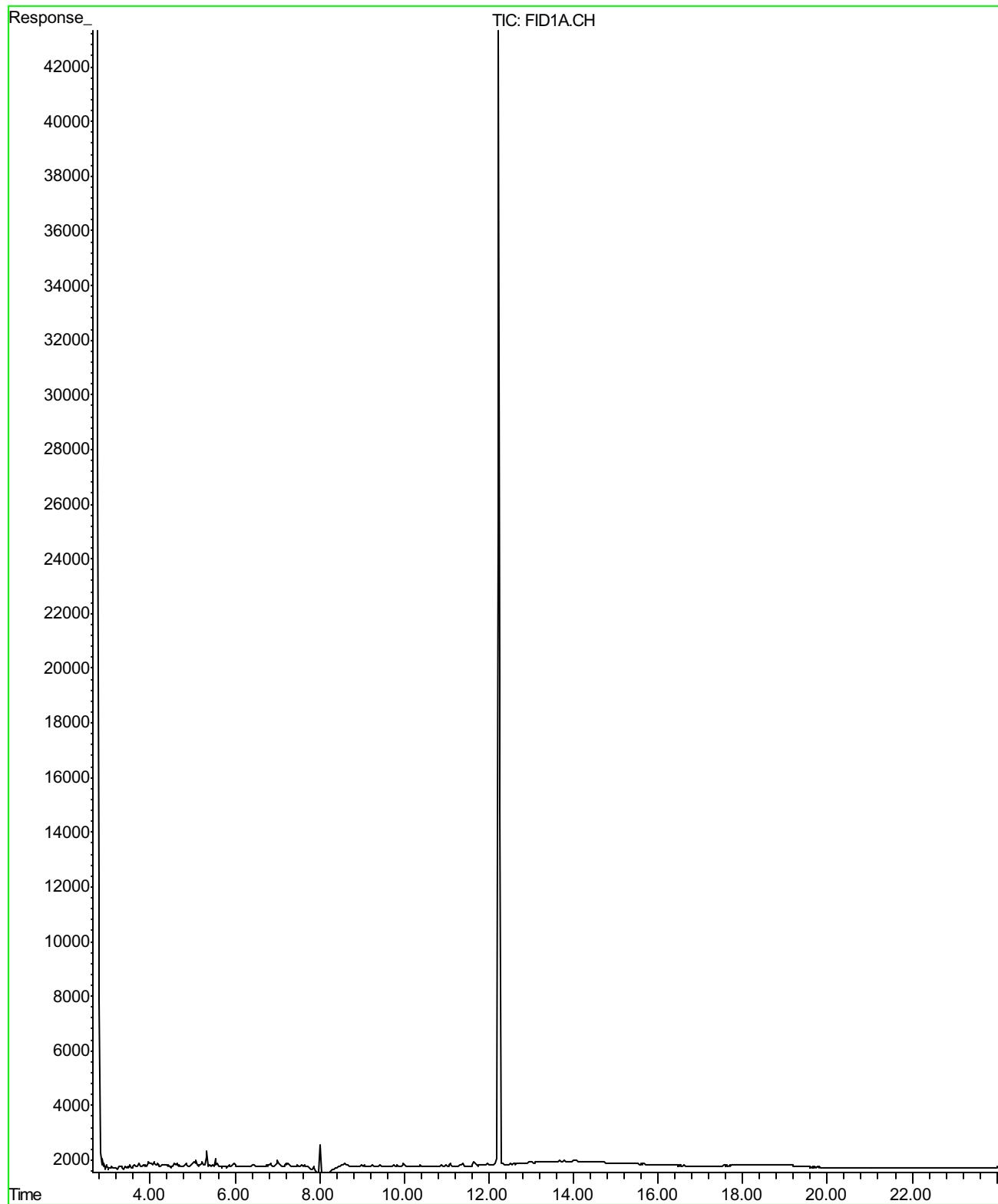
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Analysis Method : EPA 8260B



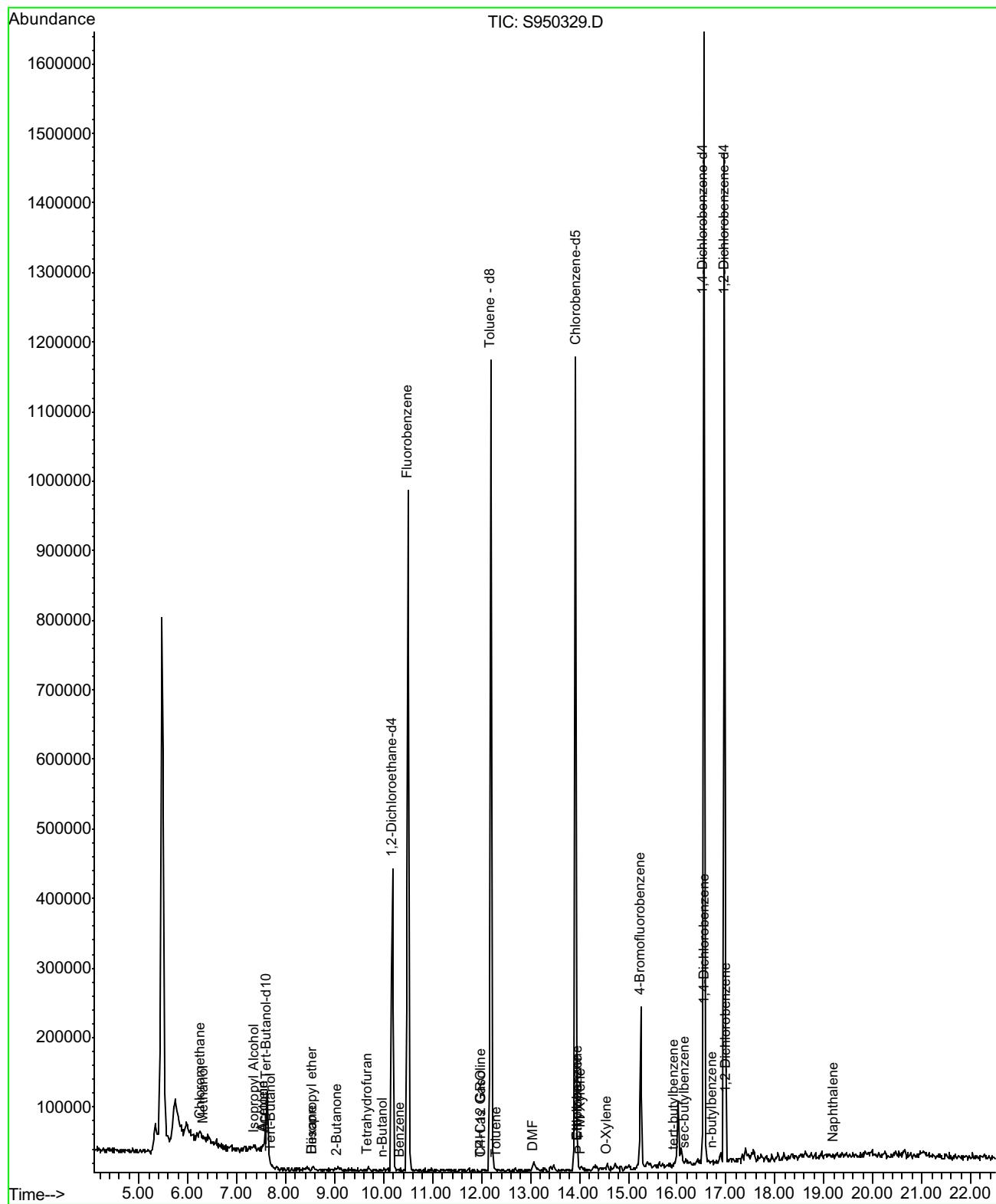
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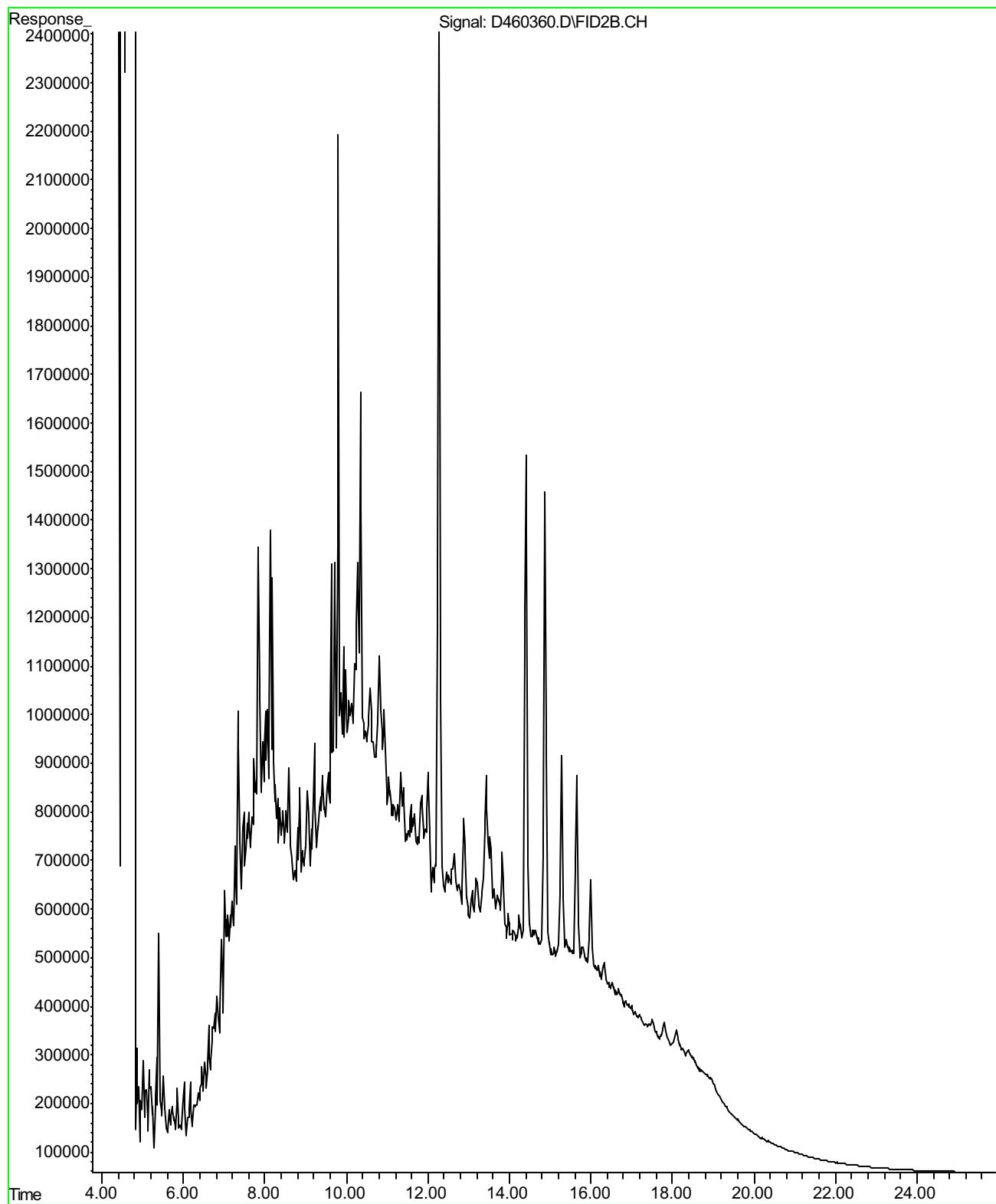
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Date Analyzed : 09/30/2008
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Analysis Method : M EPA 8015



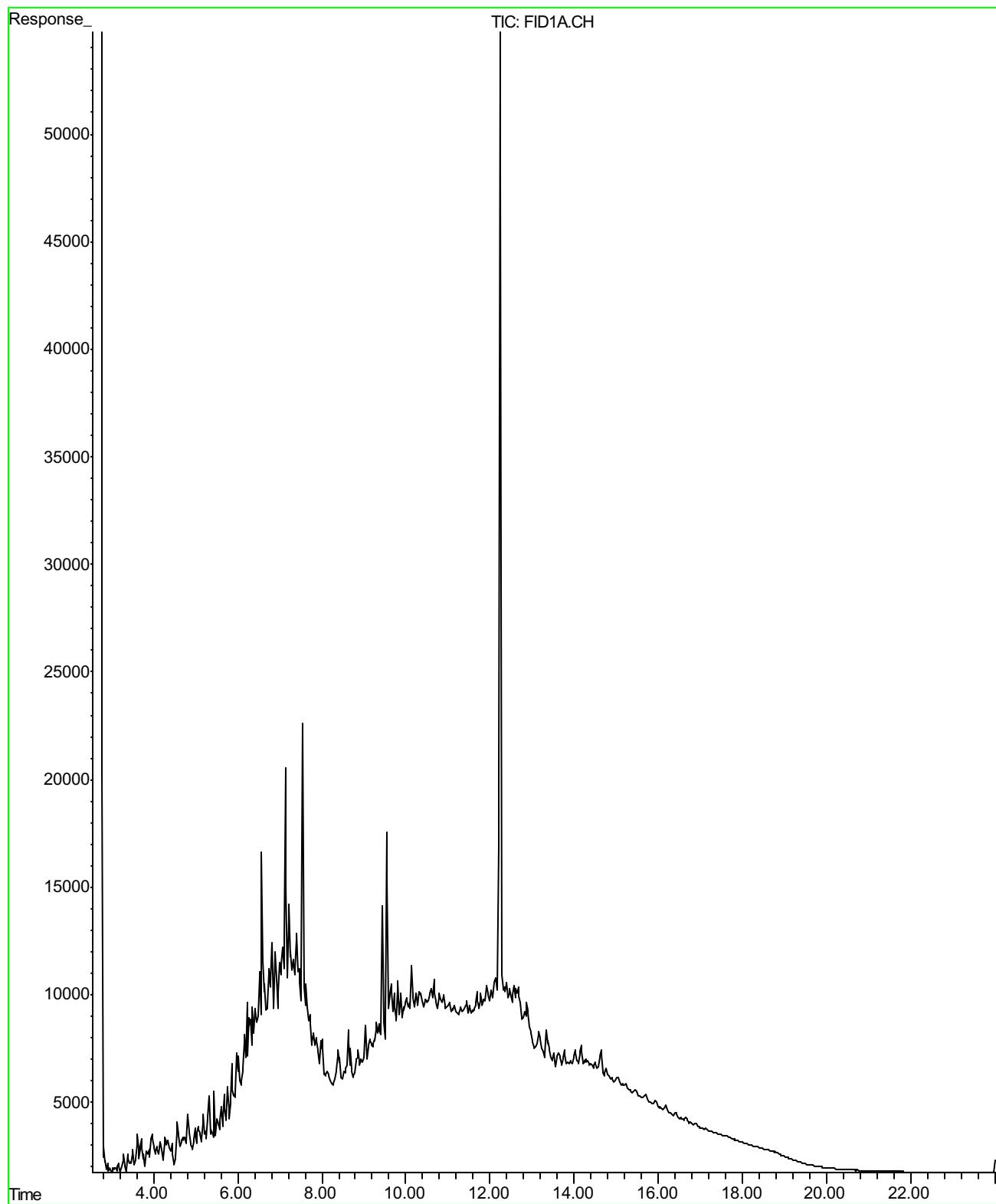
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Analysis Method : EPA 8260B



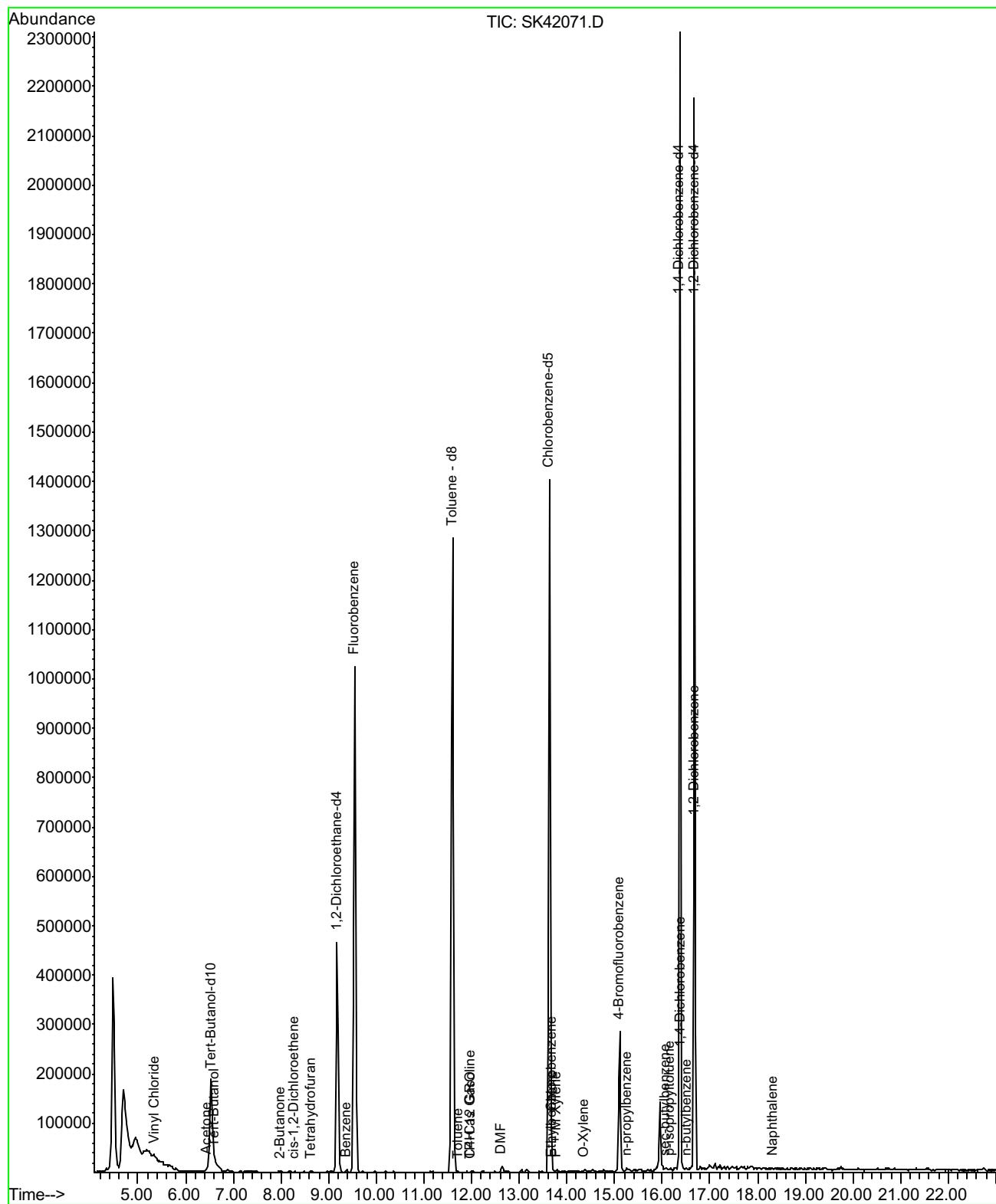
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Analysis Method : M EPA 8015



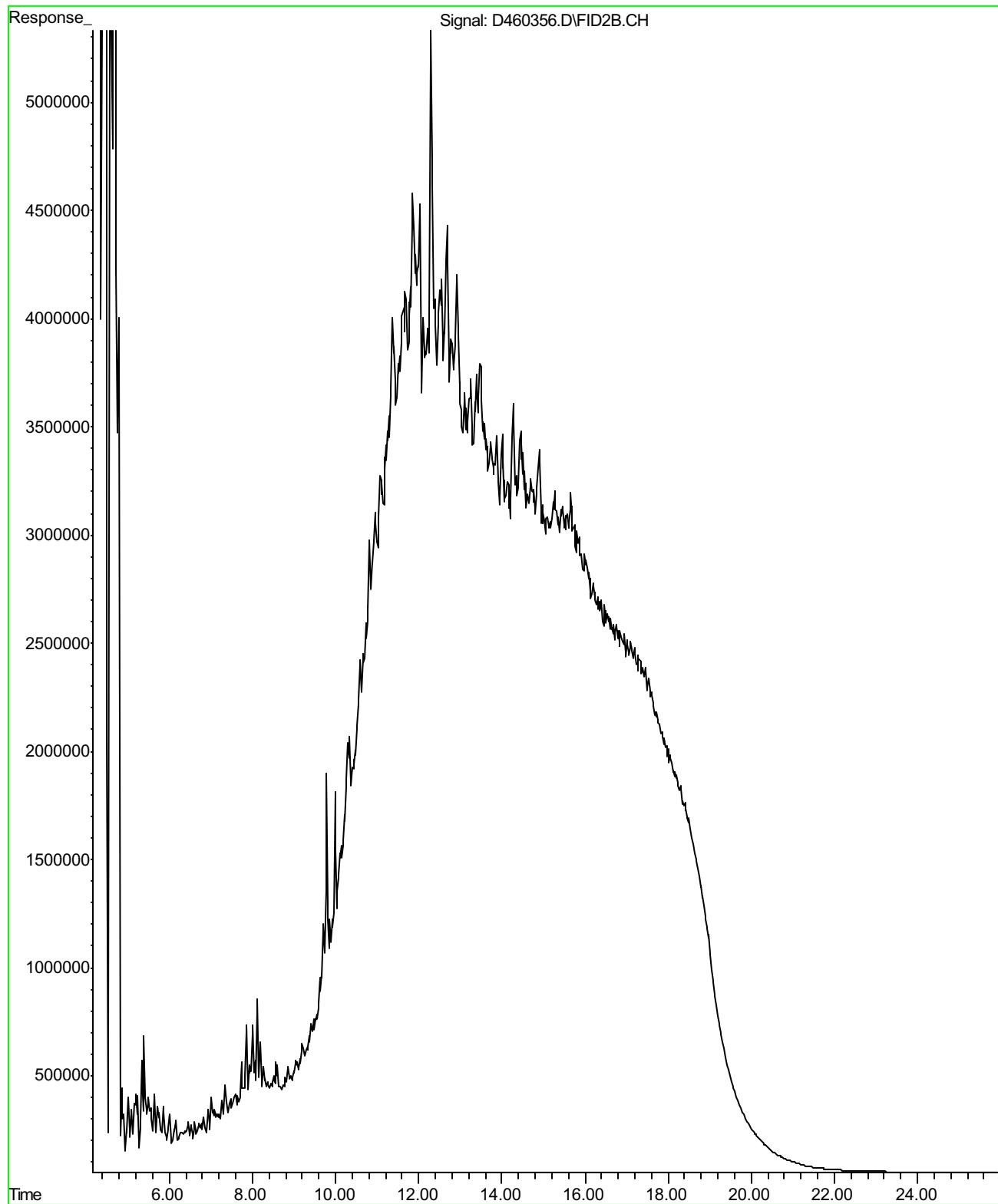
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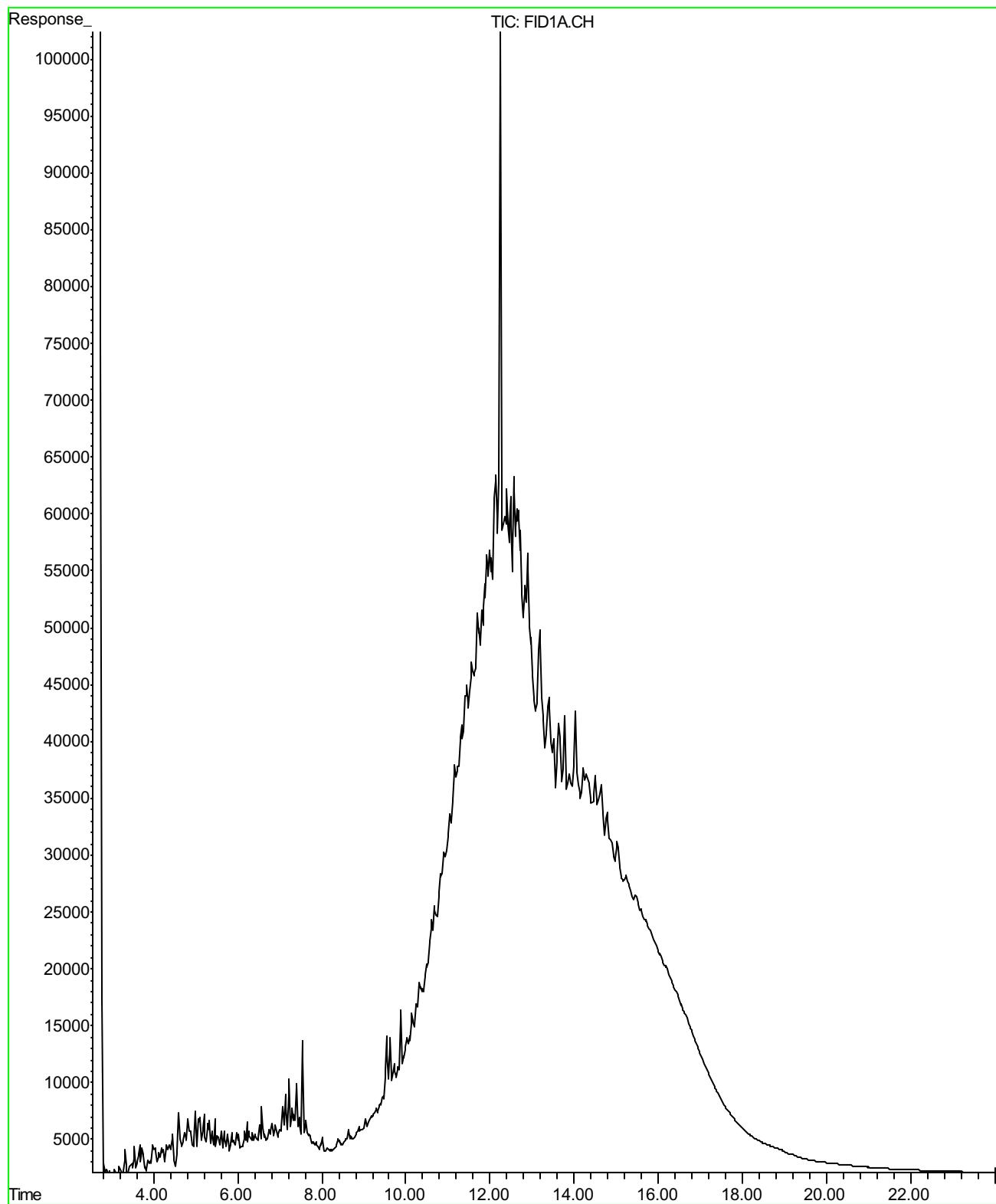
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Date Analyzed : 10/01/2008
Data File : SK42071
Analysis Method : EPA 8260B



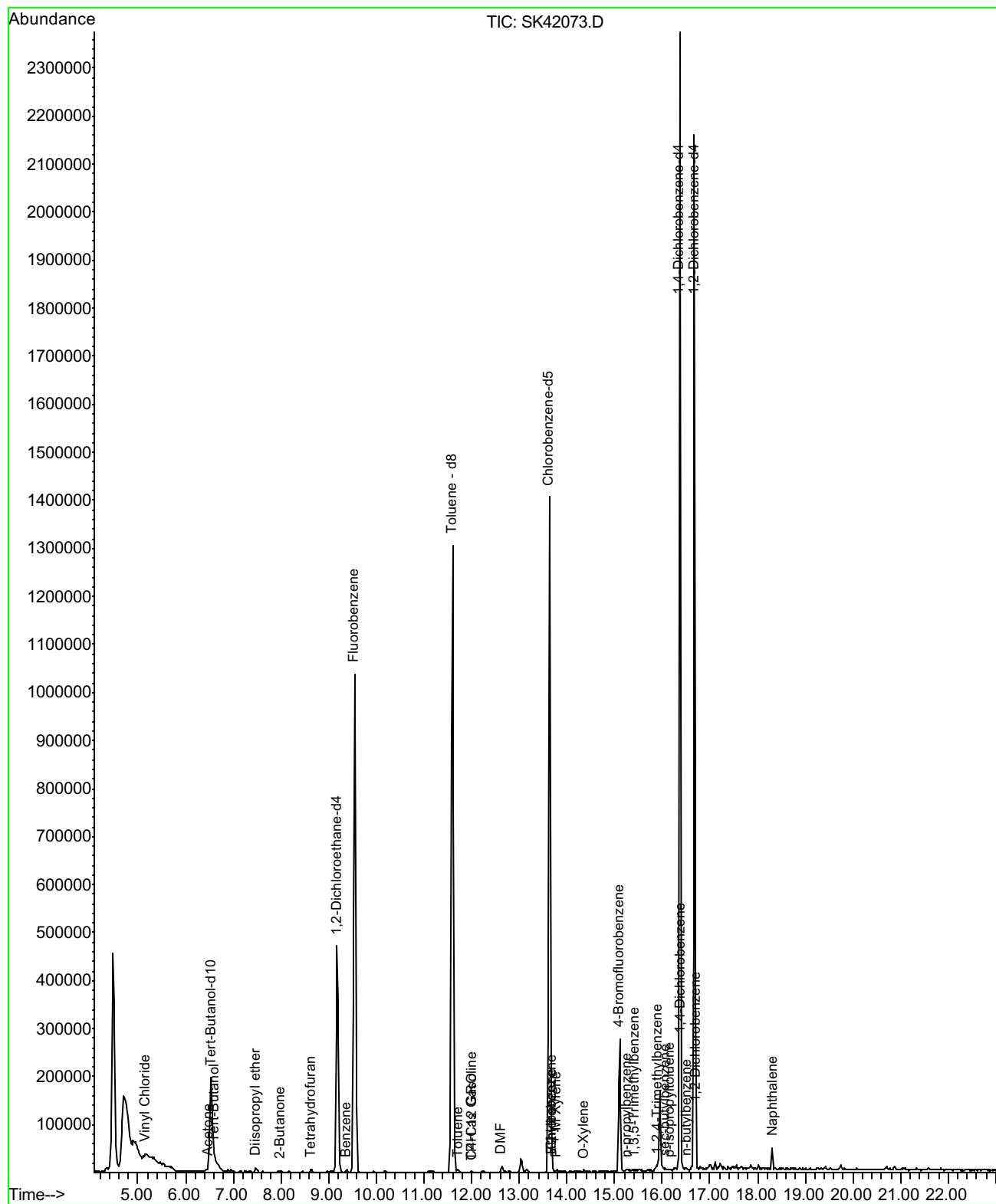
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Analysis Method : M EPA 8015



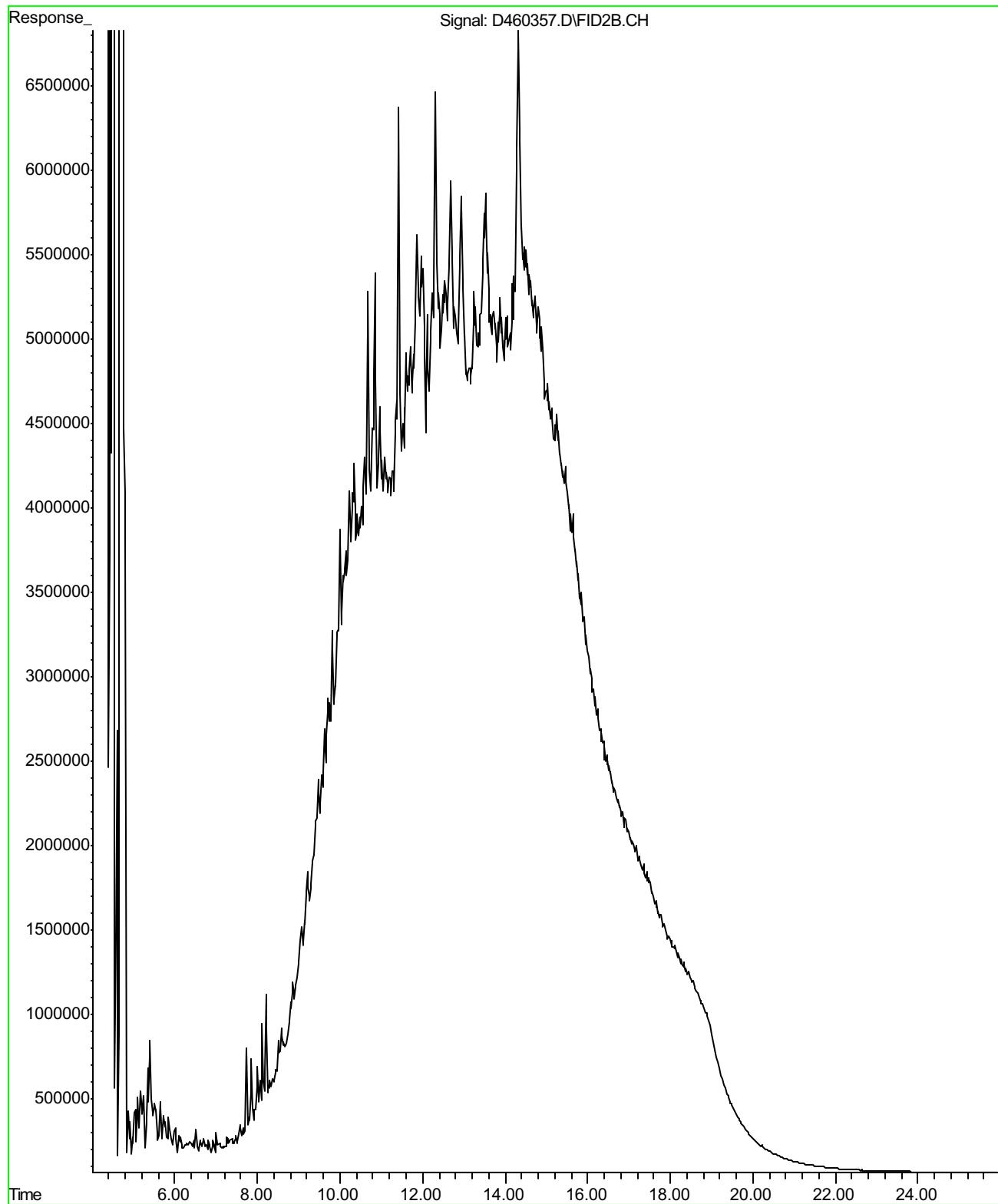
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Analysis Method : M EPA 8015



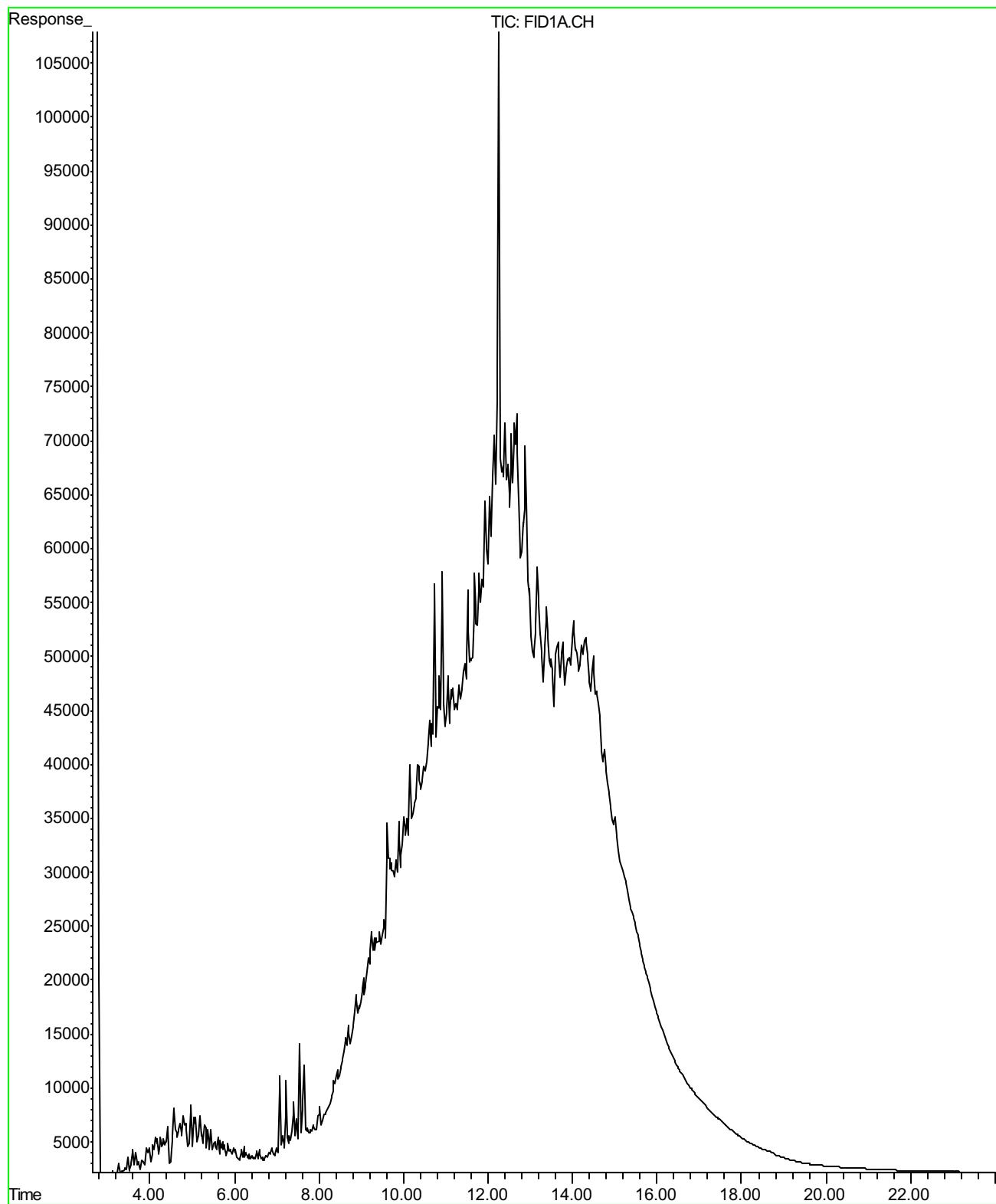
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Date Analyzed : 10/01/2008
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Analysis Method : EPA 8260B



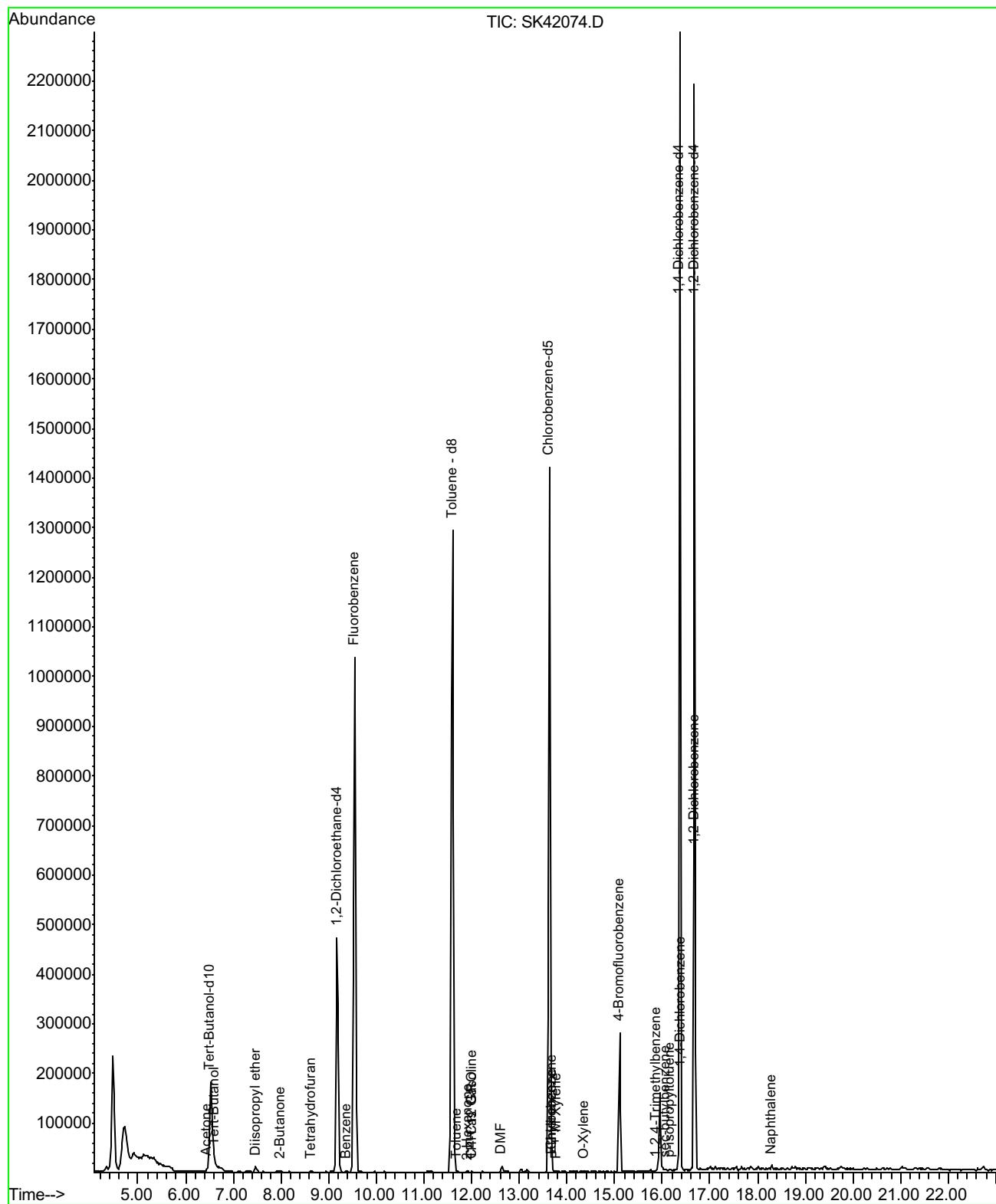
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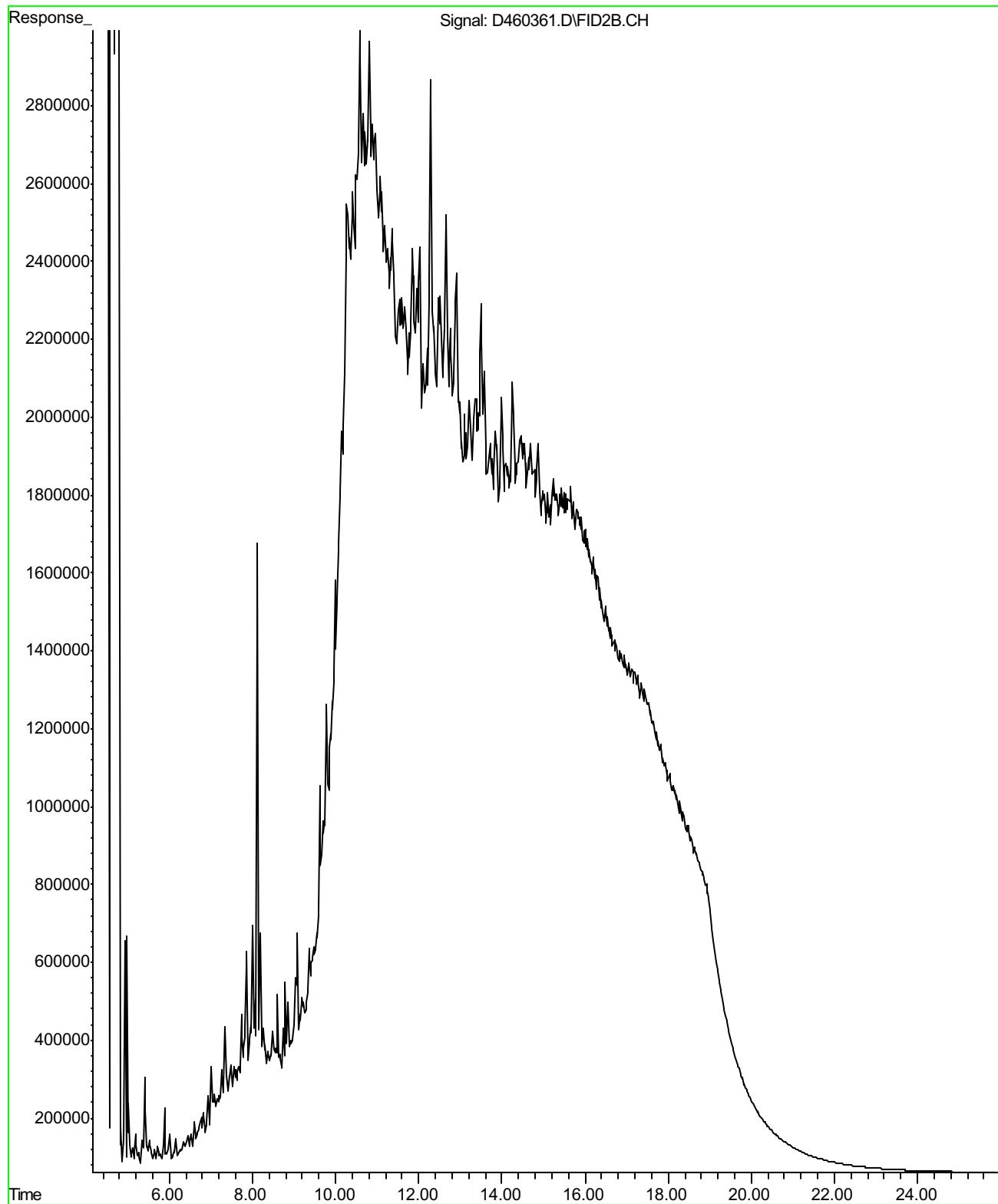
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Date Analyzed : 10/01/2008
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Analysis Method : M EPA 8015



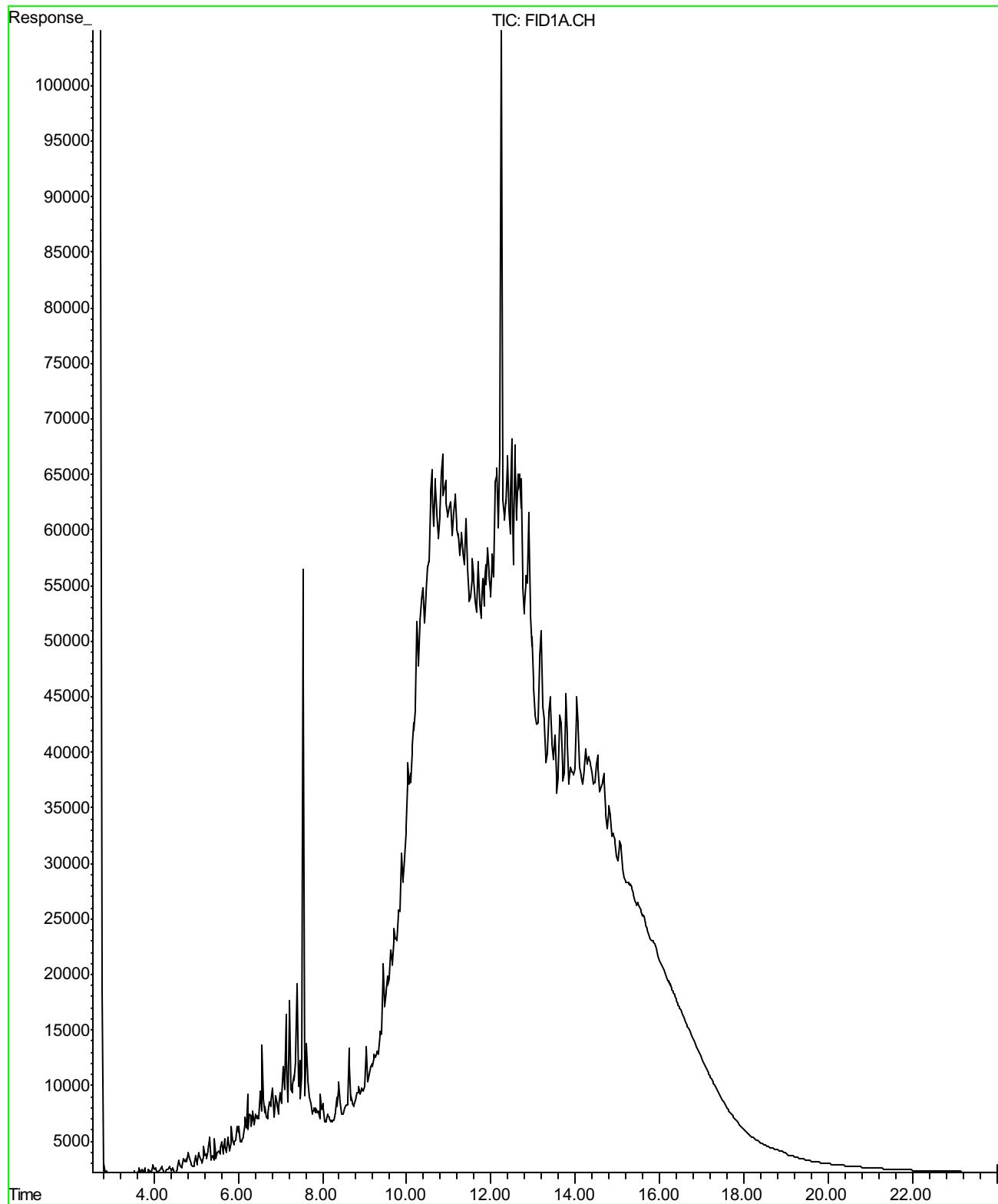
Sample ID : 65028-07 (MW-9)
Date Analyzed : 10/01/2008
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Analysis Method : EPA 8260B



Sample ID : 65028-07 (MW-9)
Date Analyzed : 10/01/2008
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Sample ID : 65028-07 SI (MW-9)
Date Analyzed : 10/01/2008
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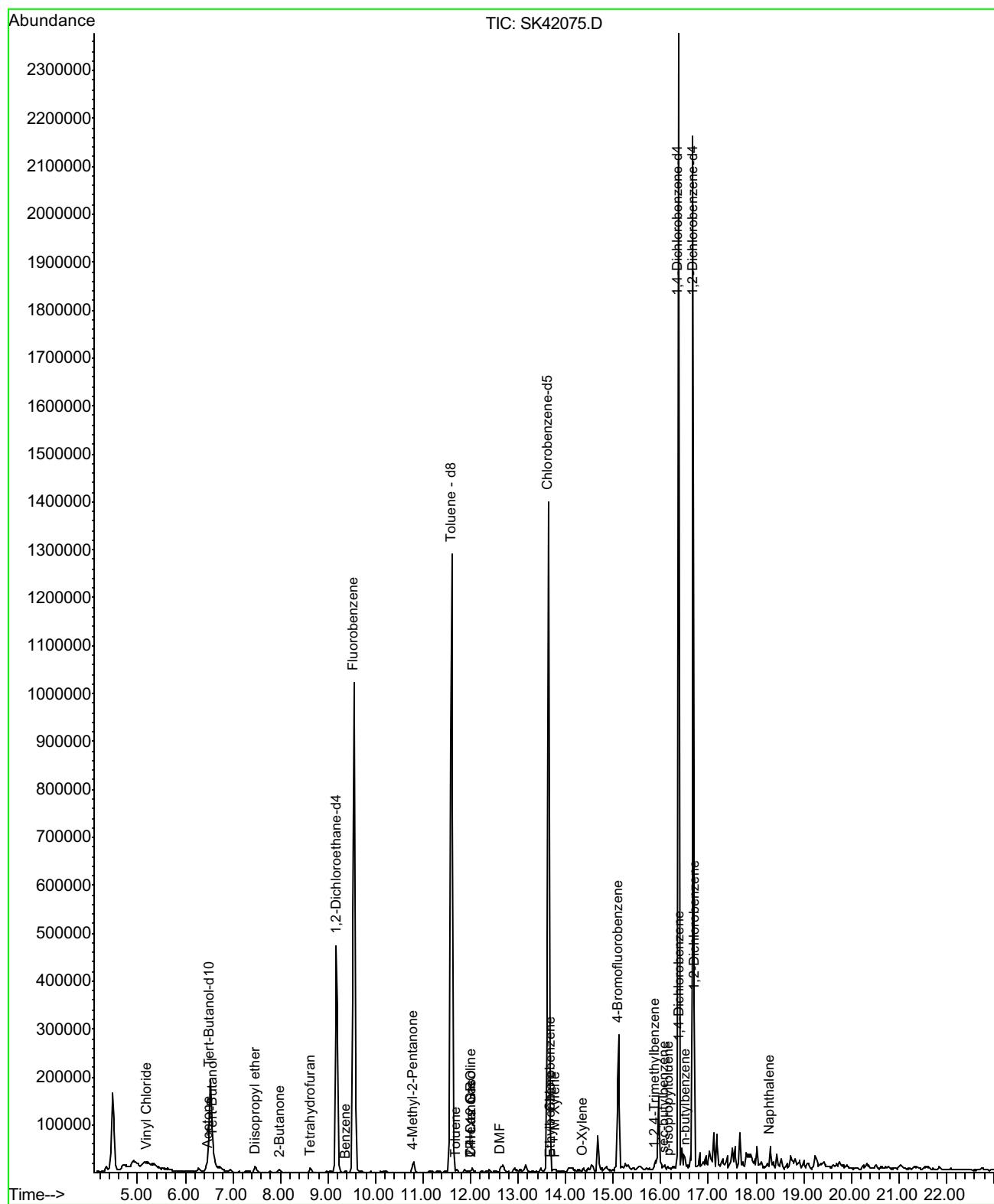


Sample ID : 65028-08 (MW-10)

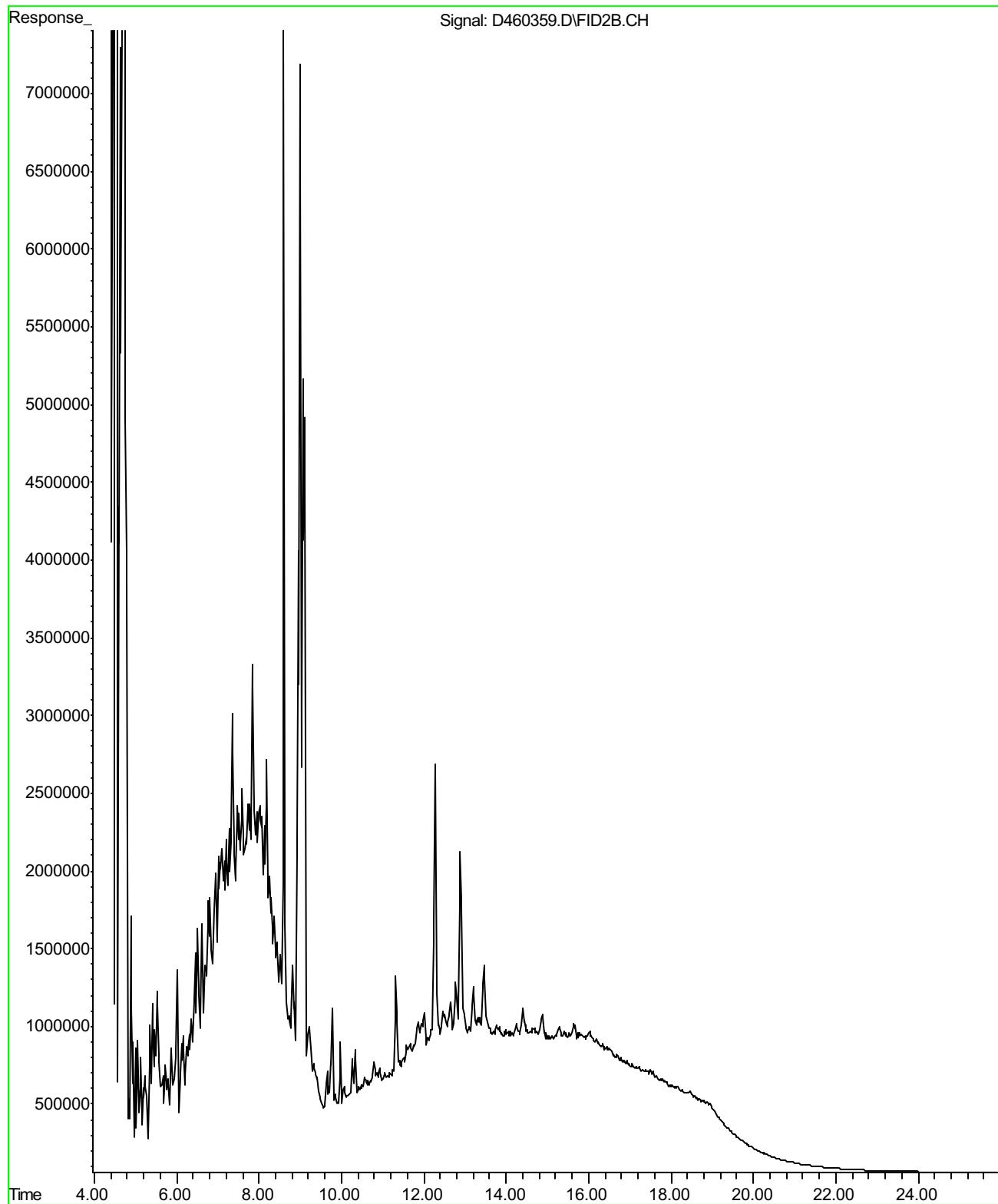
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Data File : SK42075

Analysis Method : EPA 8260B



Sample ID : 65028-08 (MW-10)
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Analysis Method : M EPA 8015

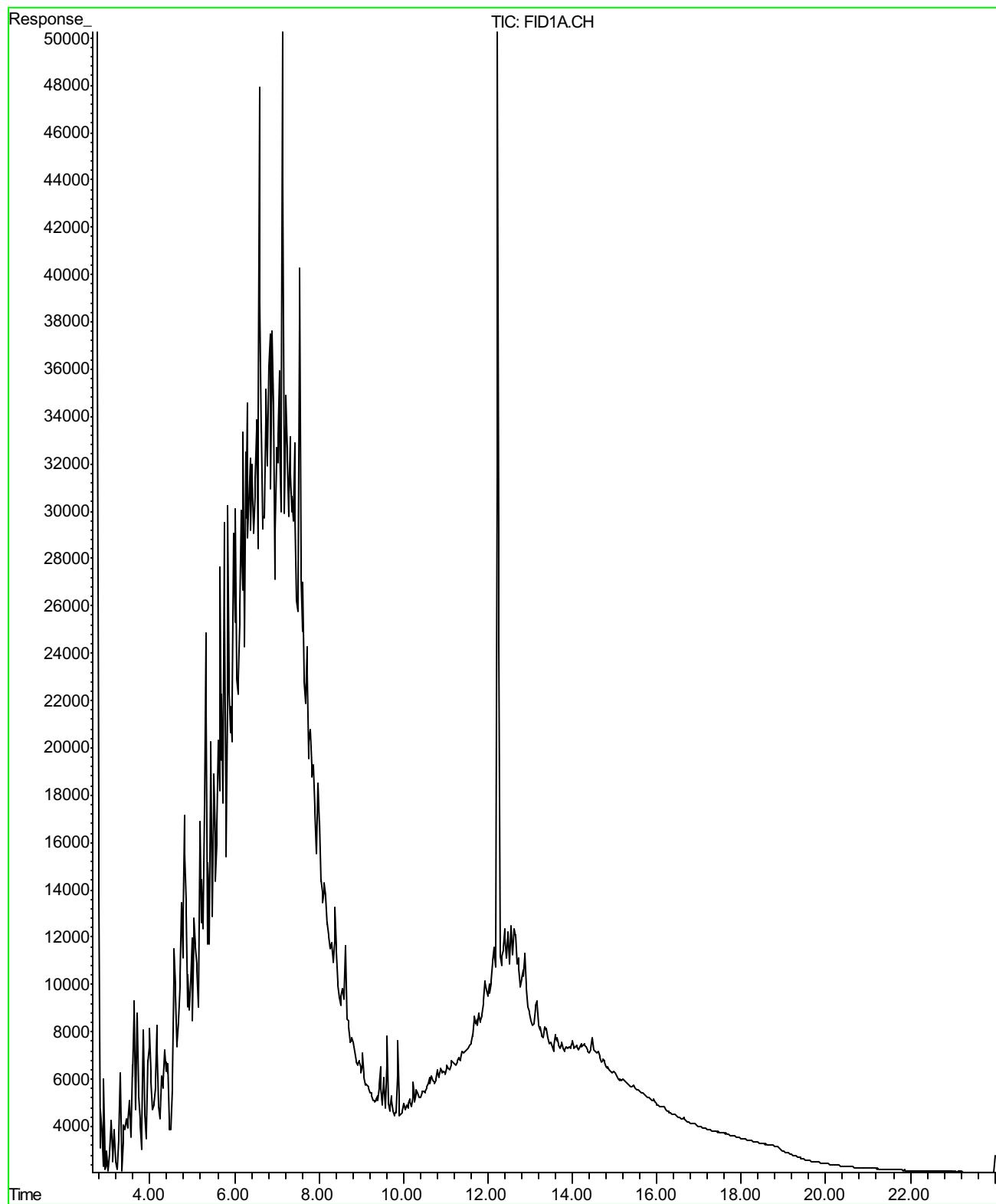


Sample ID : 65028-08 SI (MW-10)

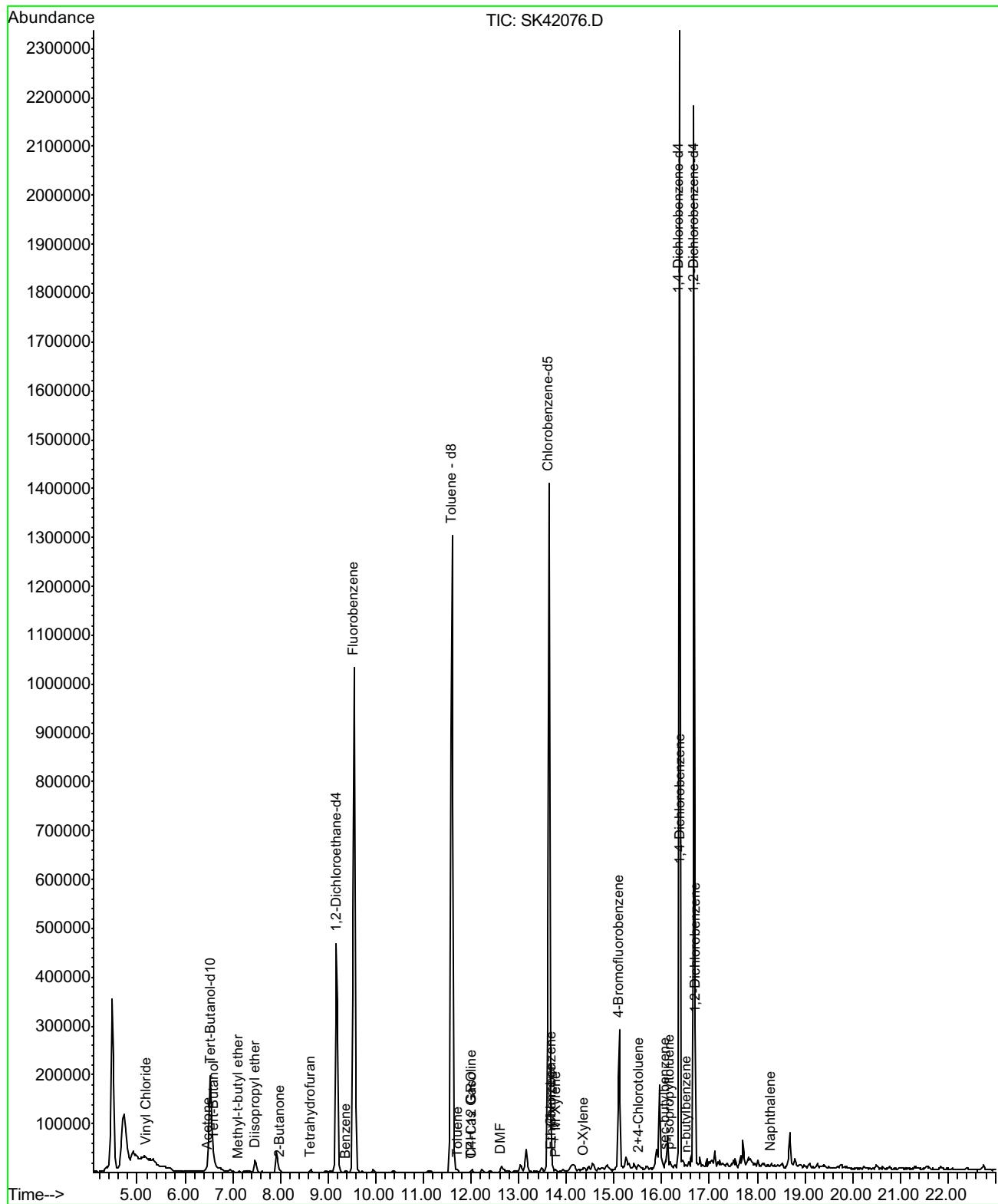
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Data File : D283164

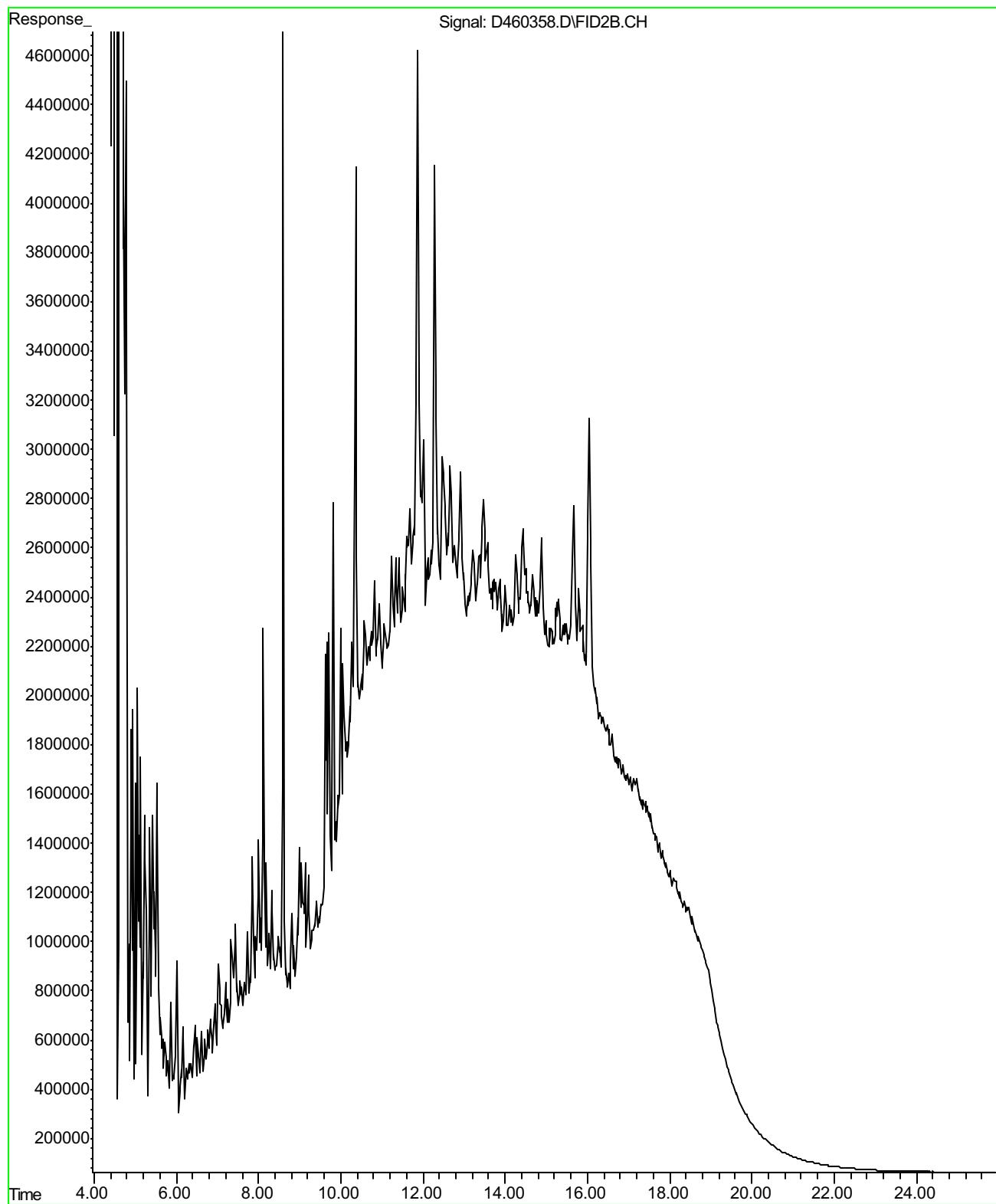
Analysis Method : M EPA 8015



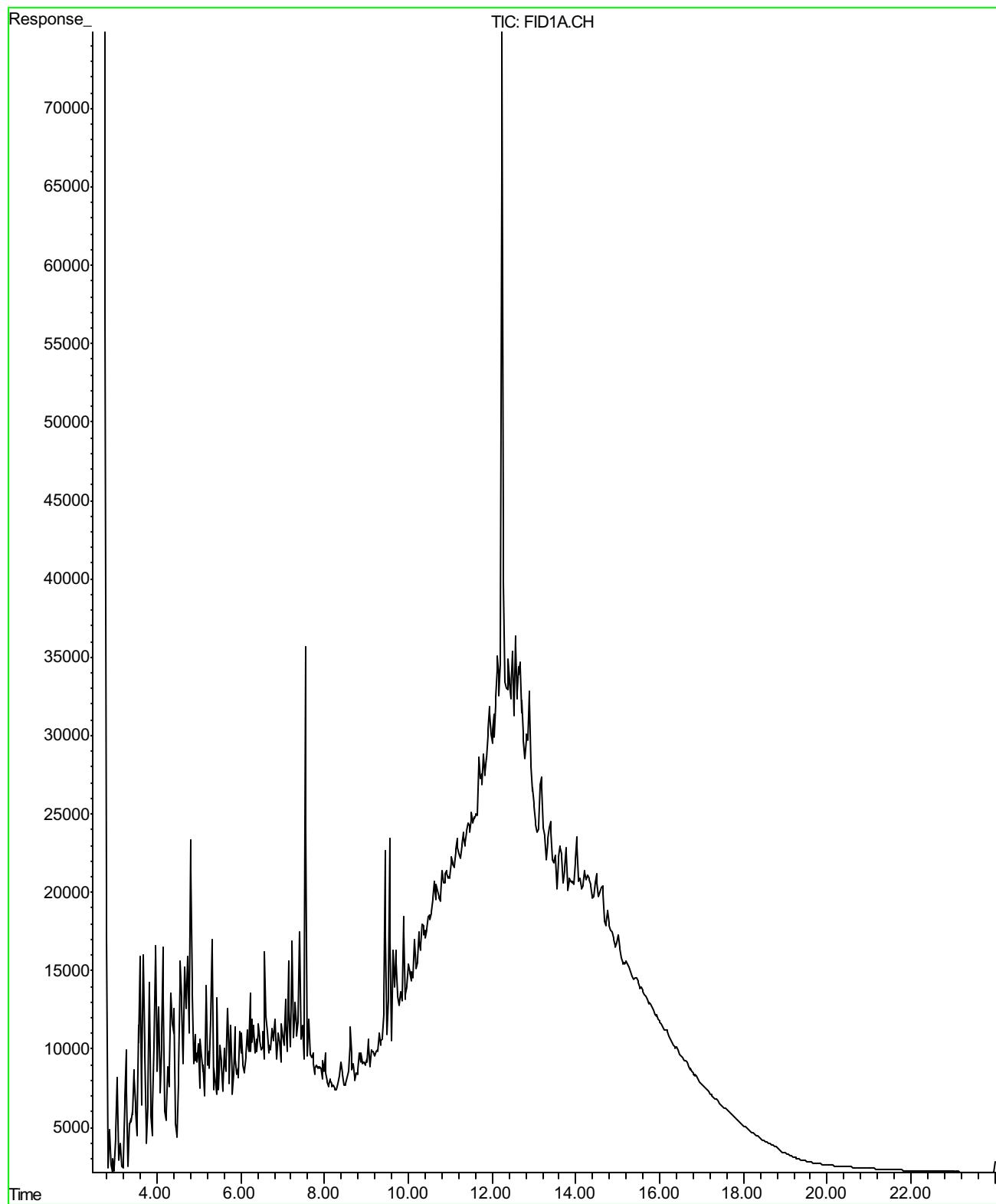
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Date Analyzed : 10/01/2008
Data File : SK42076
Analysis Method : EPA 8260B



Sample ID : 65028-09 (MW-11)
Date Analyzed : 10/01/2008
Data File : D460358
Analysis Method : M EPA 8015



Sample ID : 65028-09 SI (MW-11)
Date Analyzed : 10/01/2008
Data File : D283165
Analysis Method : M EPA 8015

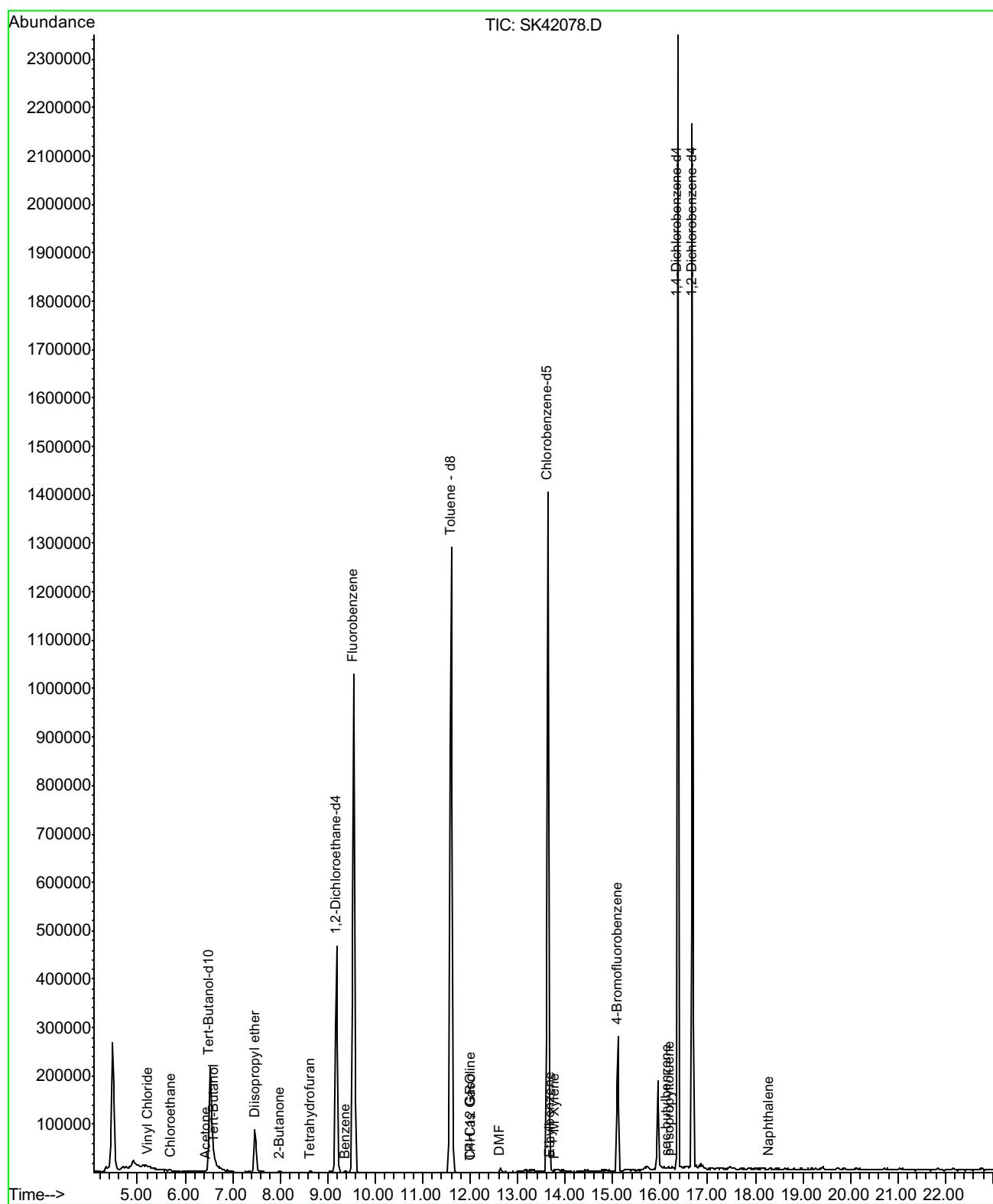


Sample ID : 65028-10 (MW-12)

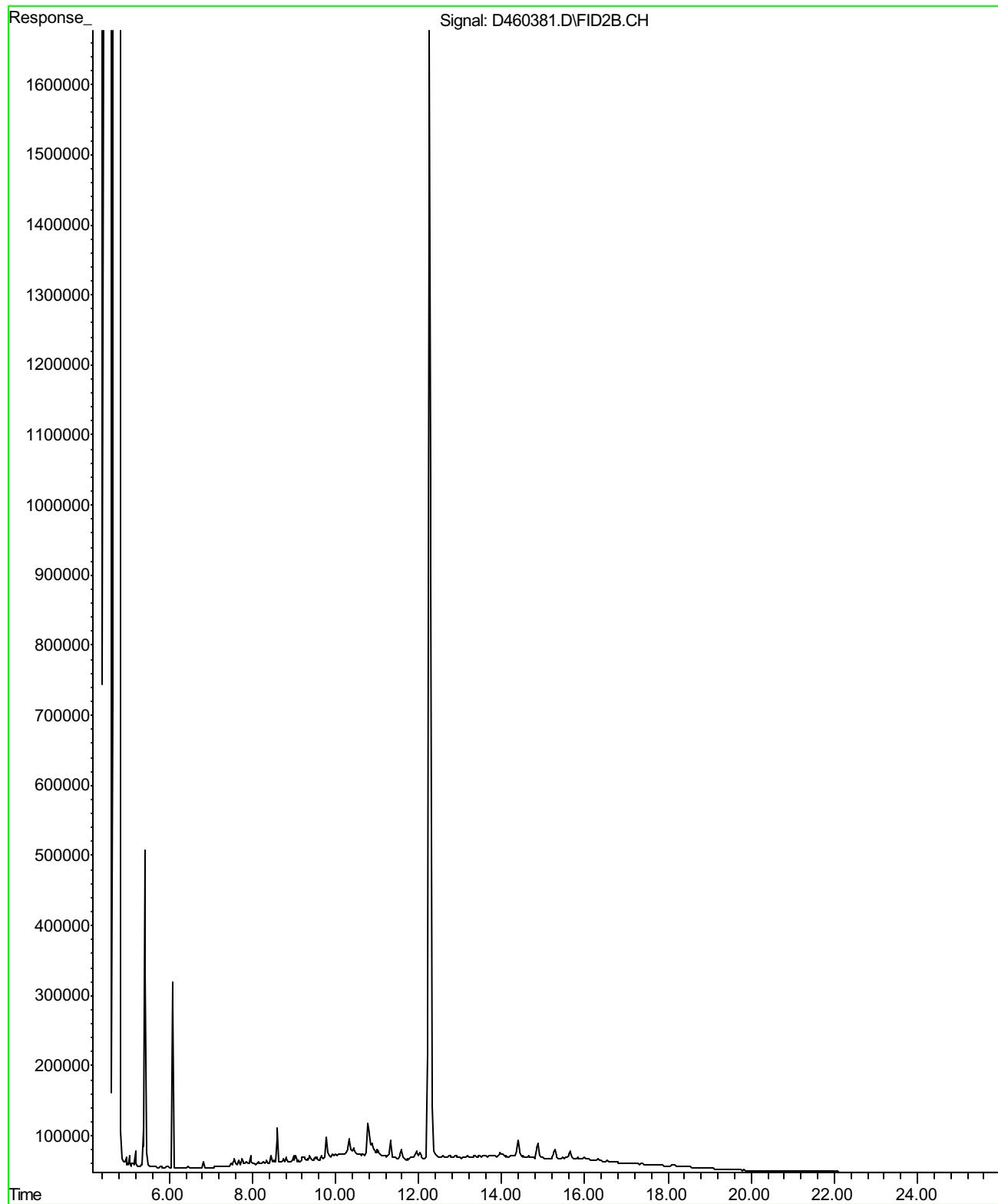
Date Analyzed : 10/01/2008

Data File : SK42078

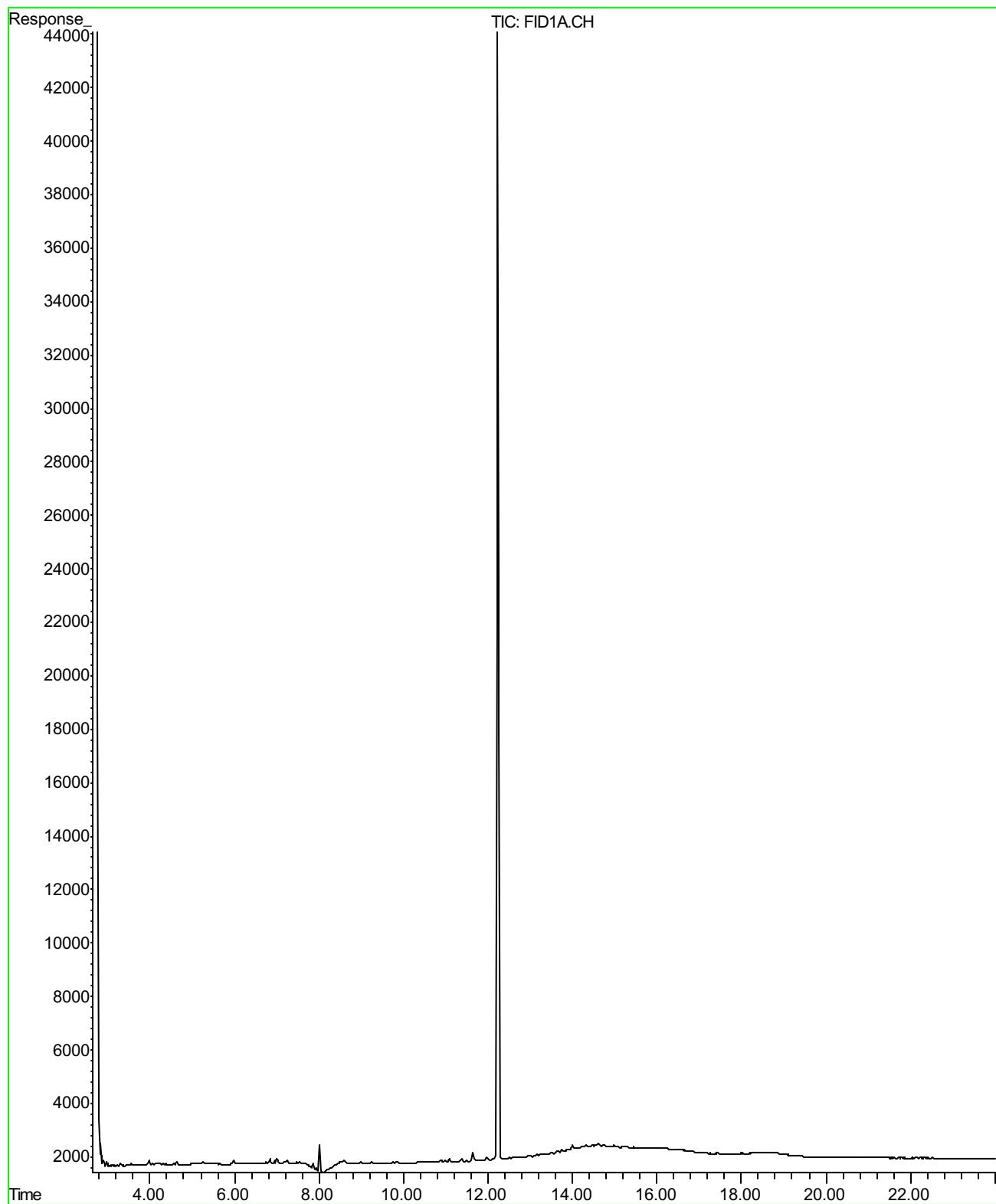
Analysis Method : EPA 8260B



Sample ID : 65028-10 (MW-12)
Date Analyzed : 10/01/2008
Data File : D460381
Analysis Method : M EPA 8015



Sample ID : 65028-10 SI (MW-12)
Date Analyzed : 10/01/2008
Data File : D283166
Analysis Method : M EPA 8015

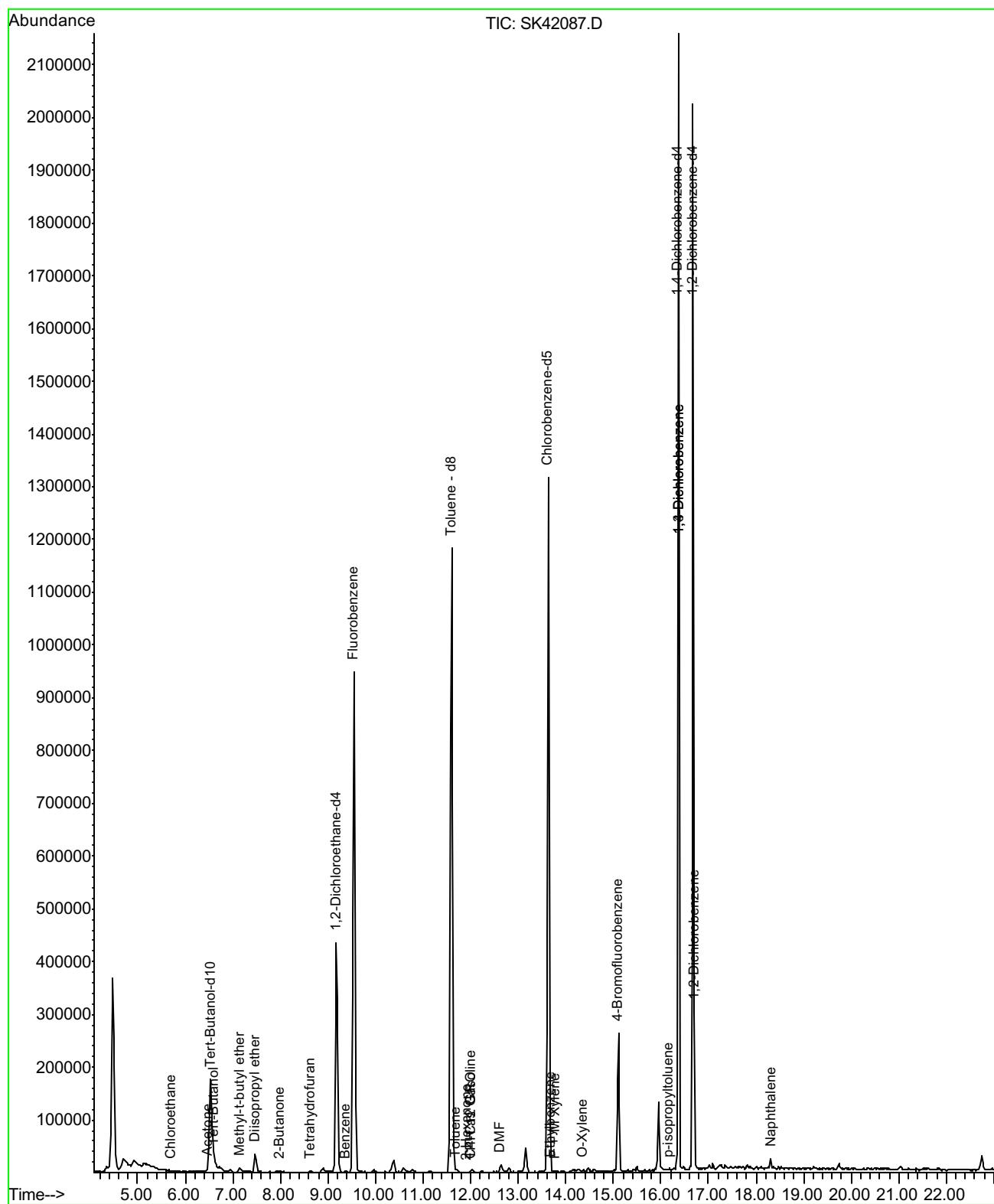


Sample ID : 65028-11 (MW-14)

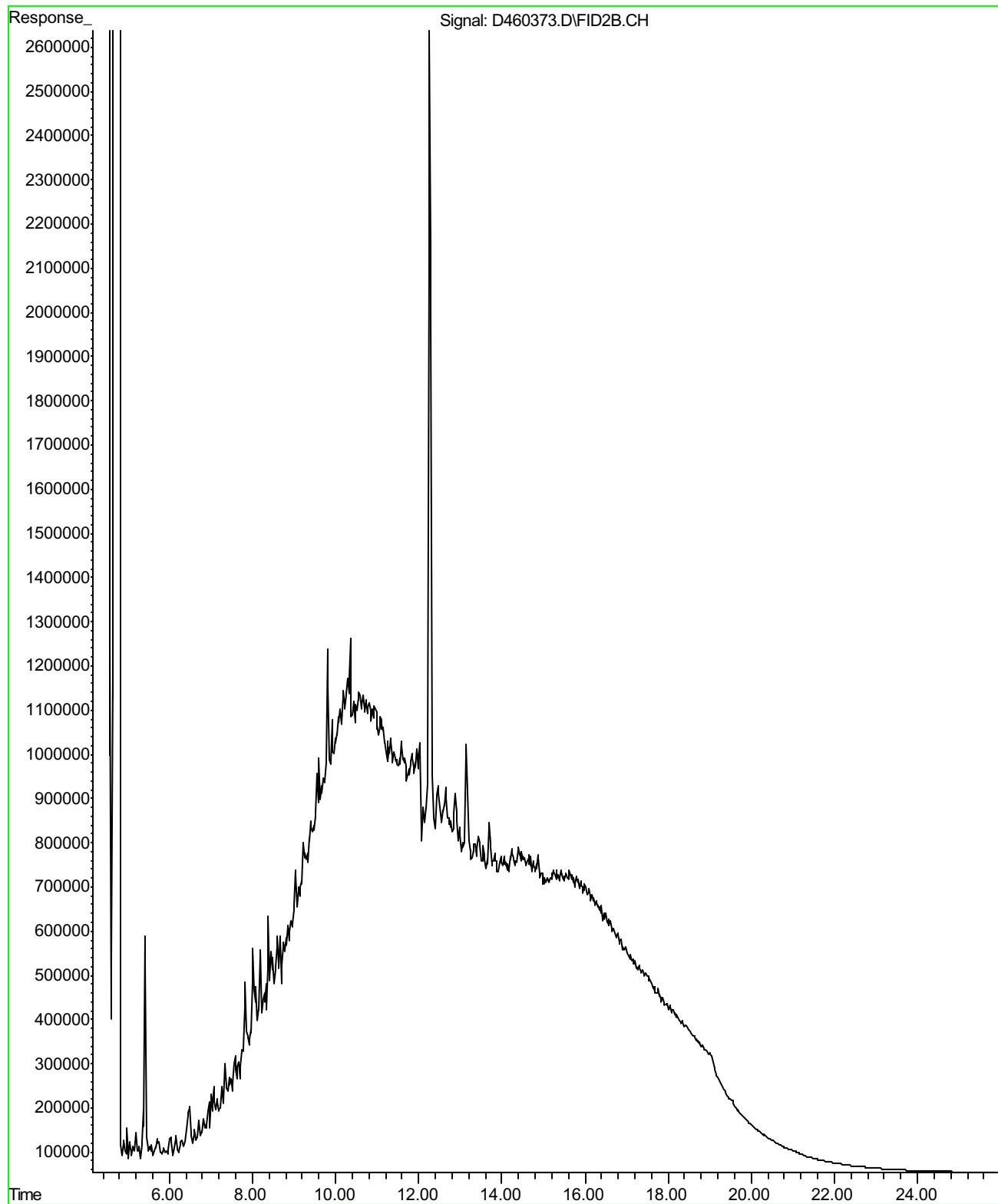
Date Analyzed : 10/01/2008

Data File : SK42087

Analysis Method : EPA 8260B



Sample ID : 65028-11 (MW-14)
Date Analyzed : 10/01/2008
Data File : D460373
Analysis Method : M EPA 8015

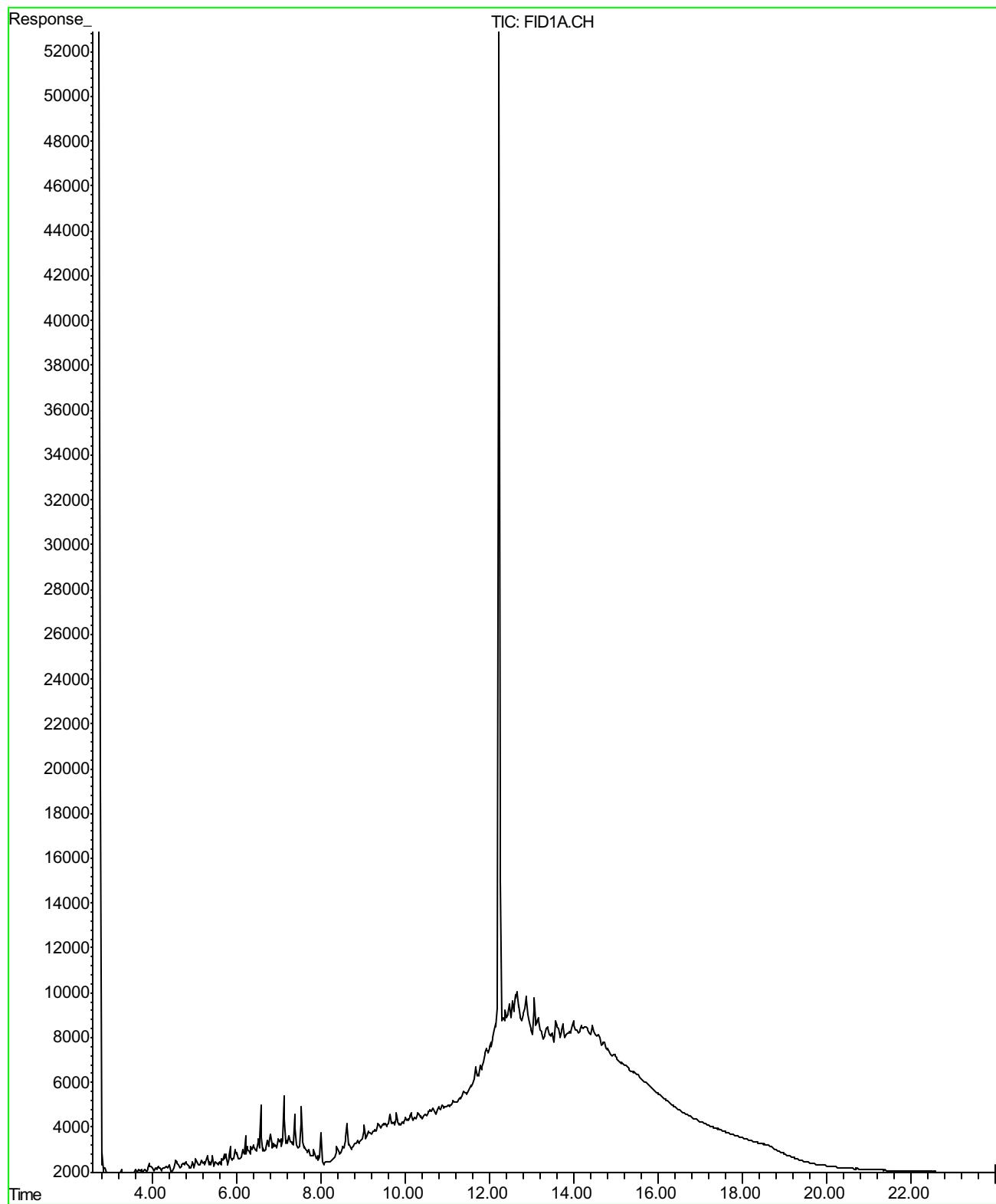


Sample ID : 65028-11 SI (MW-14)

Date Analyzed : 10/01/2008

Data File : D283167

Analysis Method : M EPA 8015

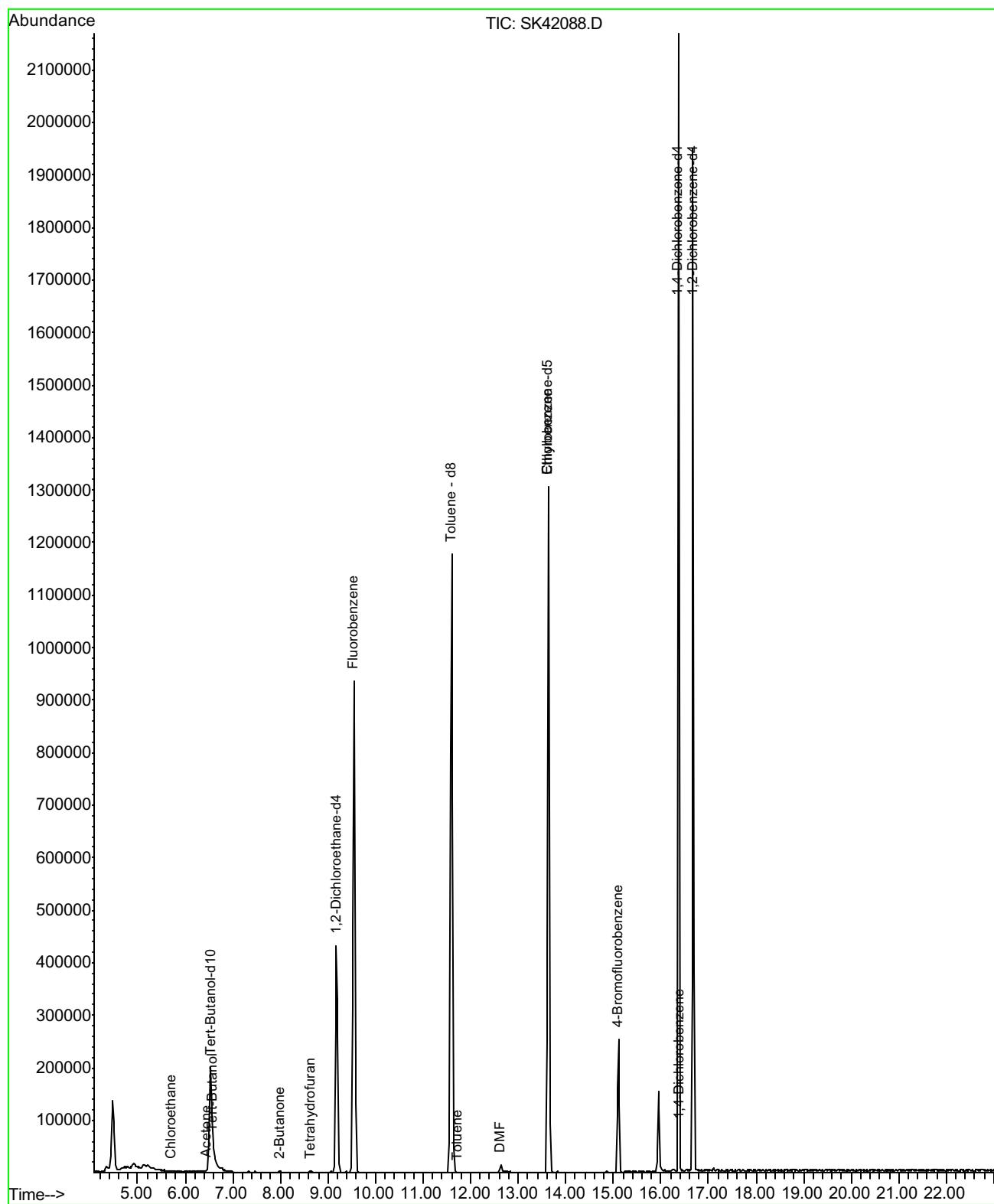


Sample ID : 65028-12 (MW-15)

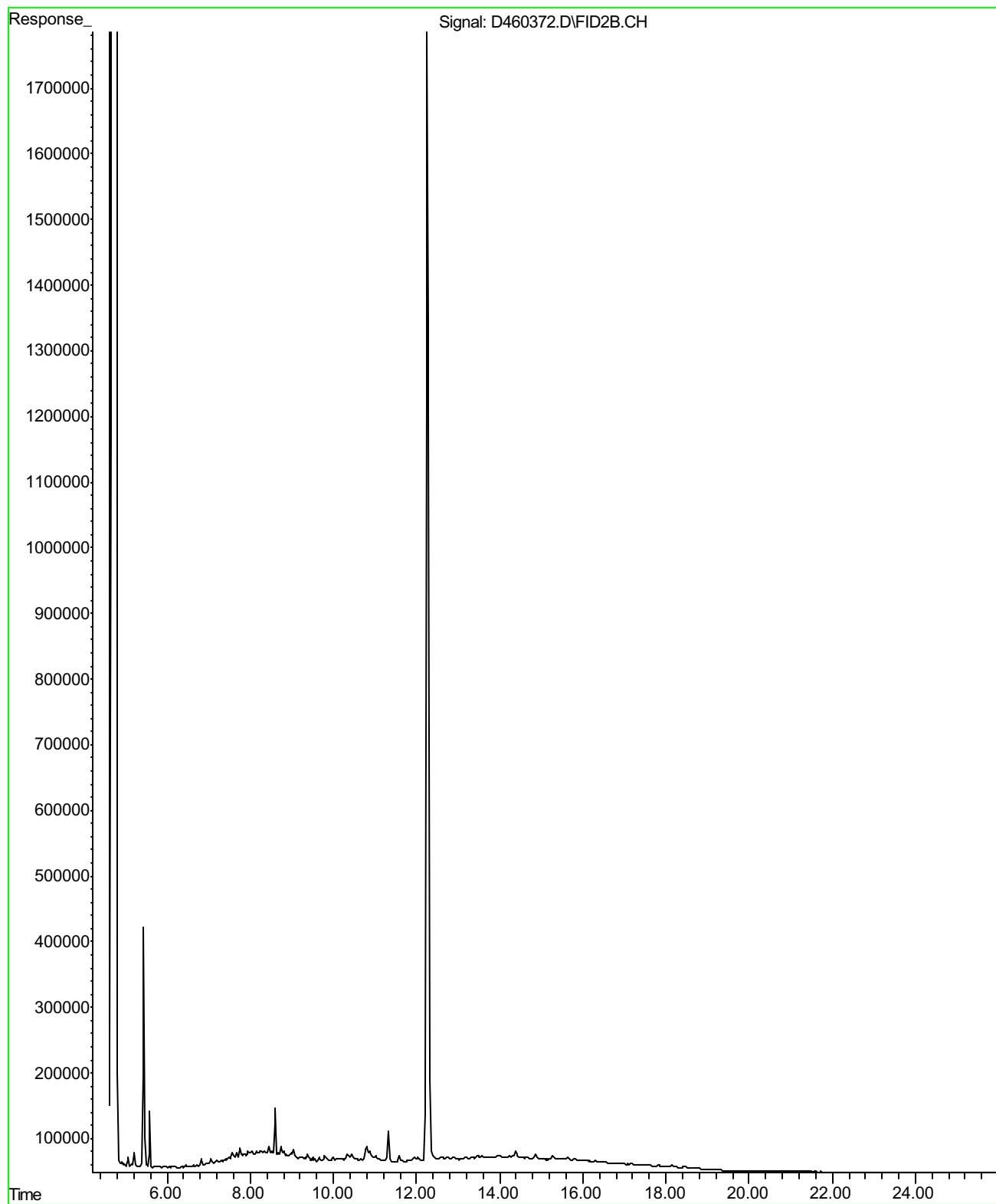
Date Analyzed : 10/01/2008

Data File : SK42088

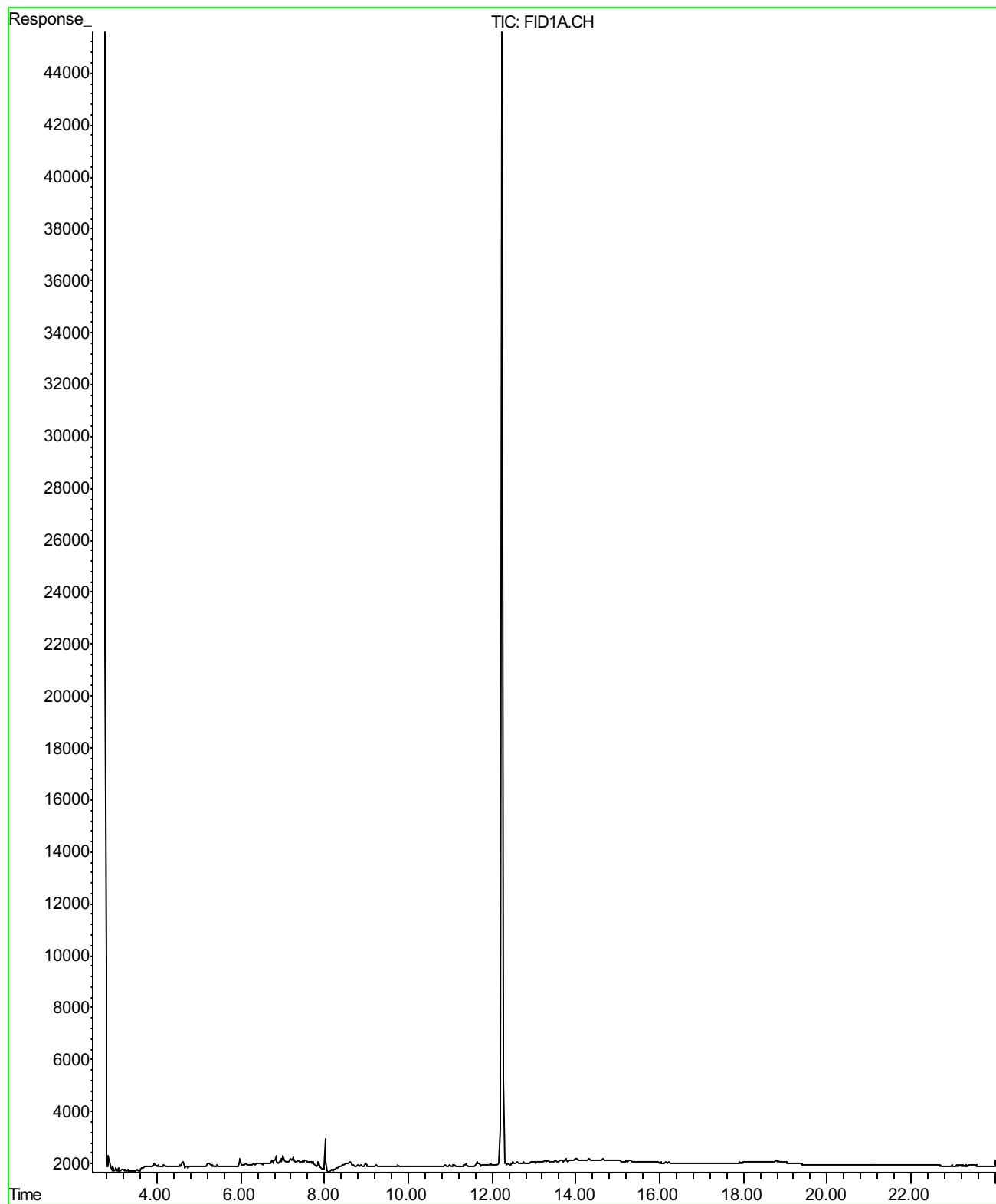
Analysis Method : EPA 8260B



Sample ID : 65028-12 (MW-15)
Date Analyzed : 10/01/2008
Data File : D460372
Analysis Method : M EPA 8015



Sample ID : 65028-12 SI (MW-15)
Date Analyzed : 10/01/2008
Data File : D283168
Analysis Method : M EPA 8015

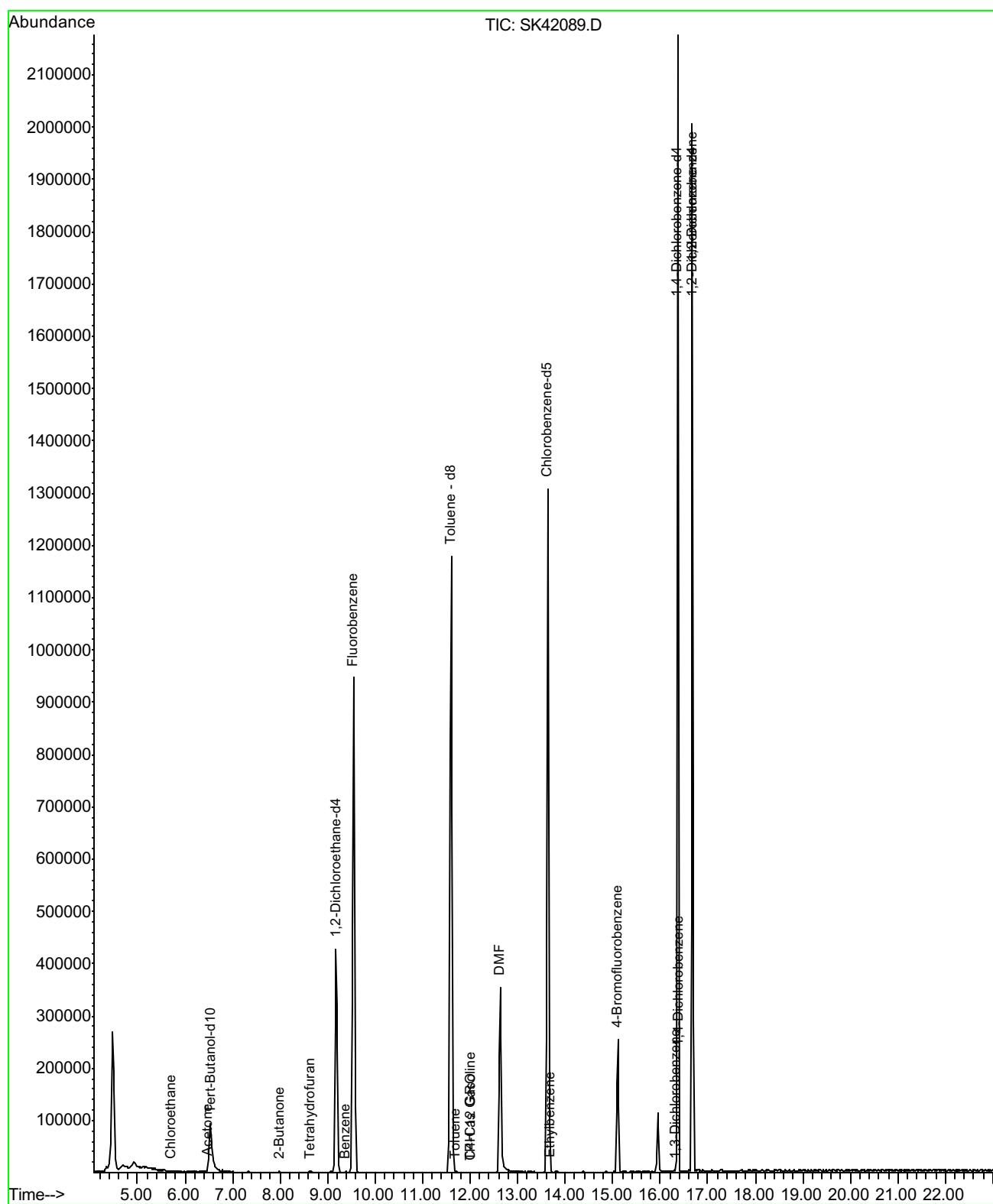


Sample ID : 65028-13 (NPORDMW-3)

Date Analyzed : 10/01/2008

Data File : SK42089

Analysis Method : EPA 8260B

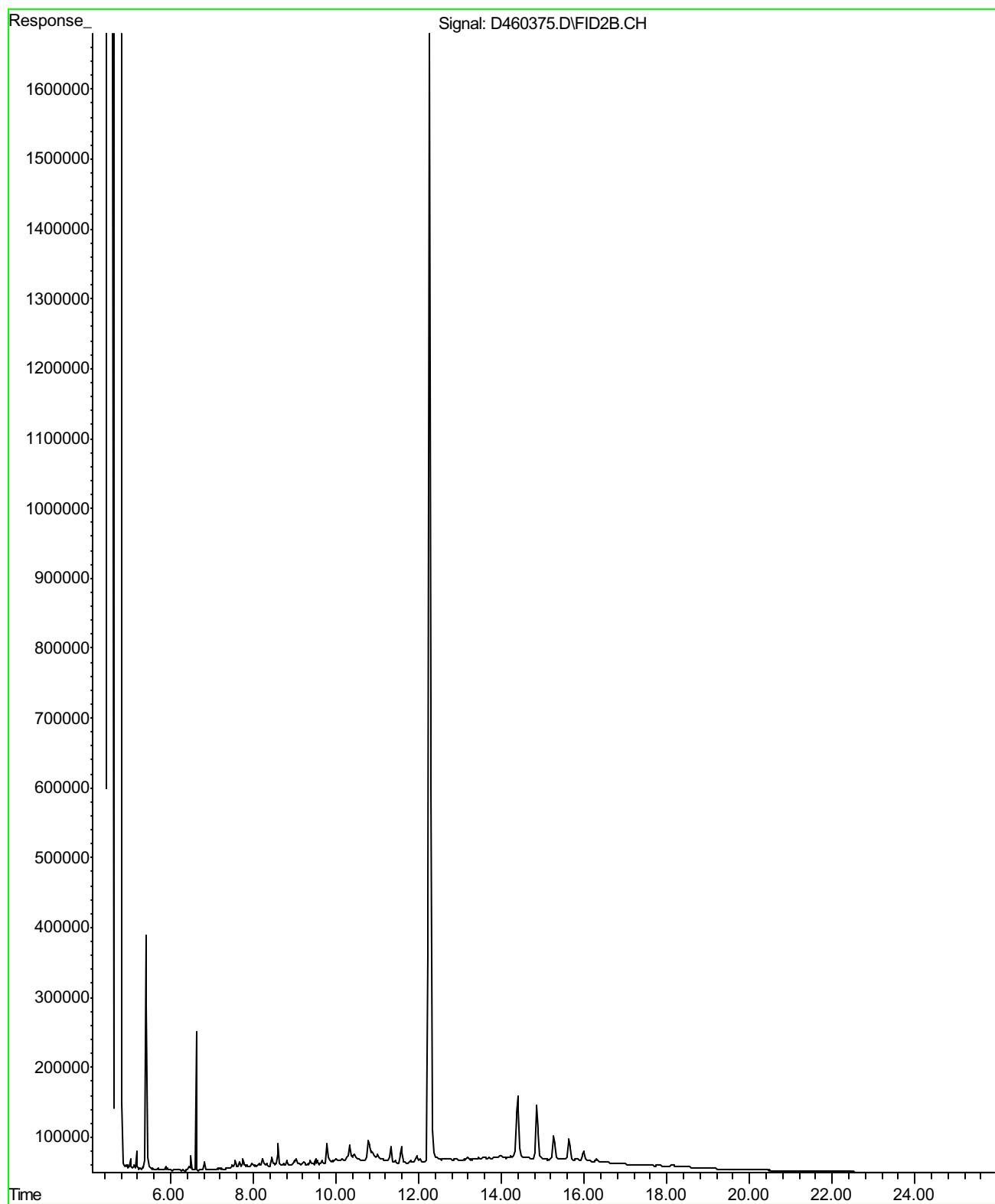


Sample ID : 65028-13 (NPORDMW-3)

Date Analyzed : 10/01/2008

Data File : D460375

Analysis Method : M EPA 8015

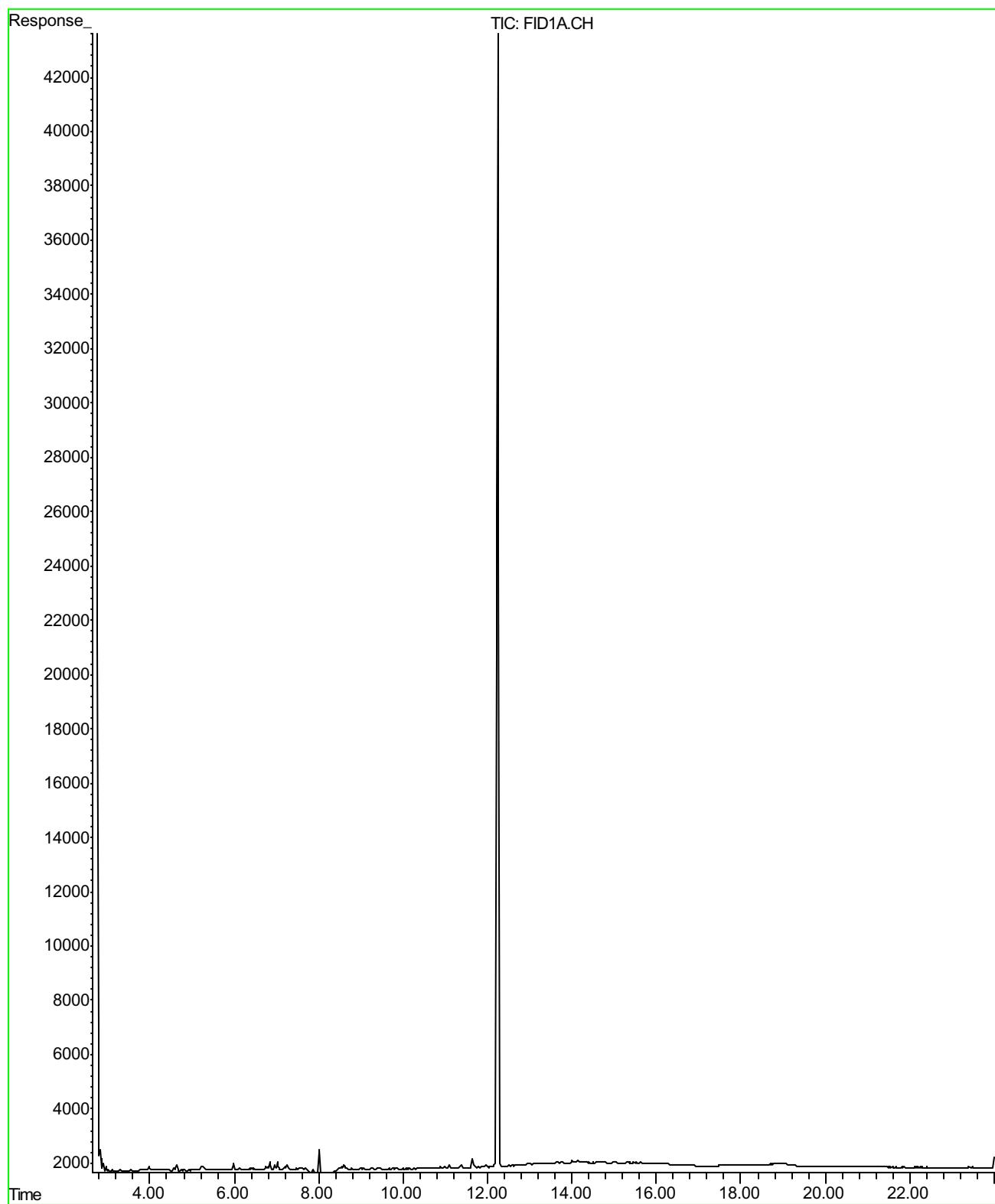


Sample ID : 65028-13 SI (NPORDMW-3)

Date Analyzed : 10/01/2008

Data File : D283169

Analysis Method : M EPA 8015

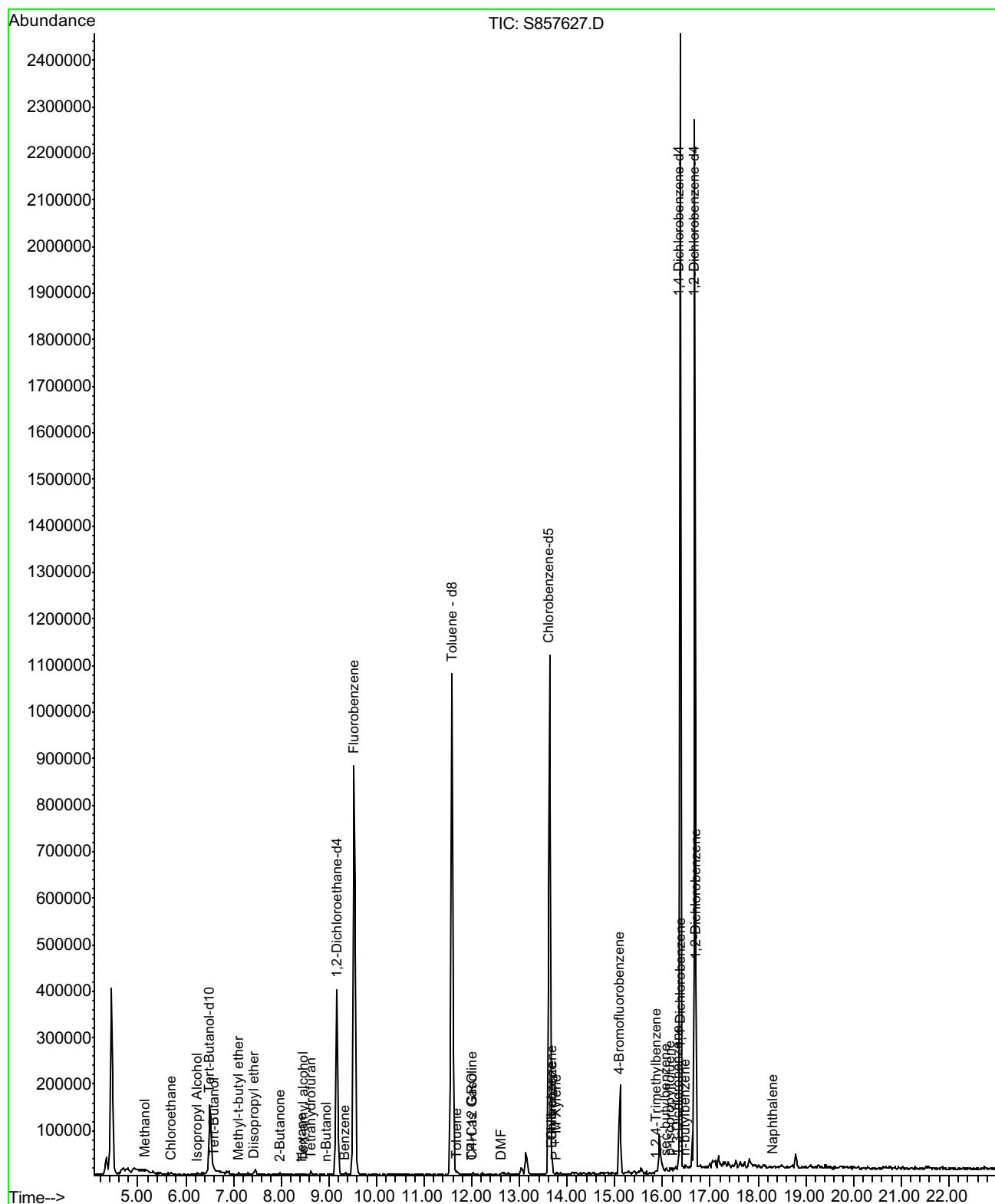


Sample ID : 65028-14 (NPORDMW-4)

Date Analyzed : 10/02/2008

Data File : S857627

Analysis Method : EPA 8260B

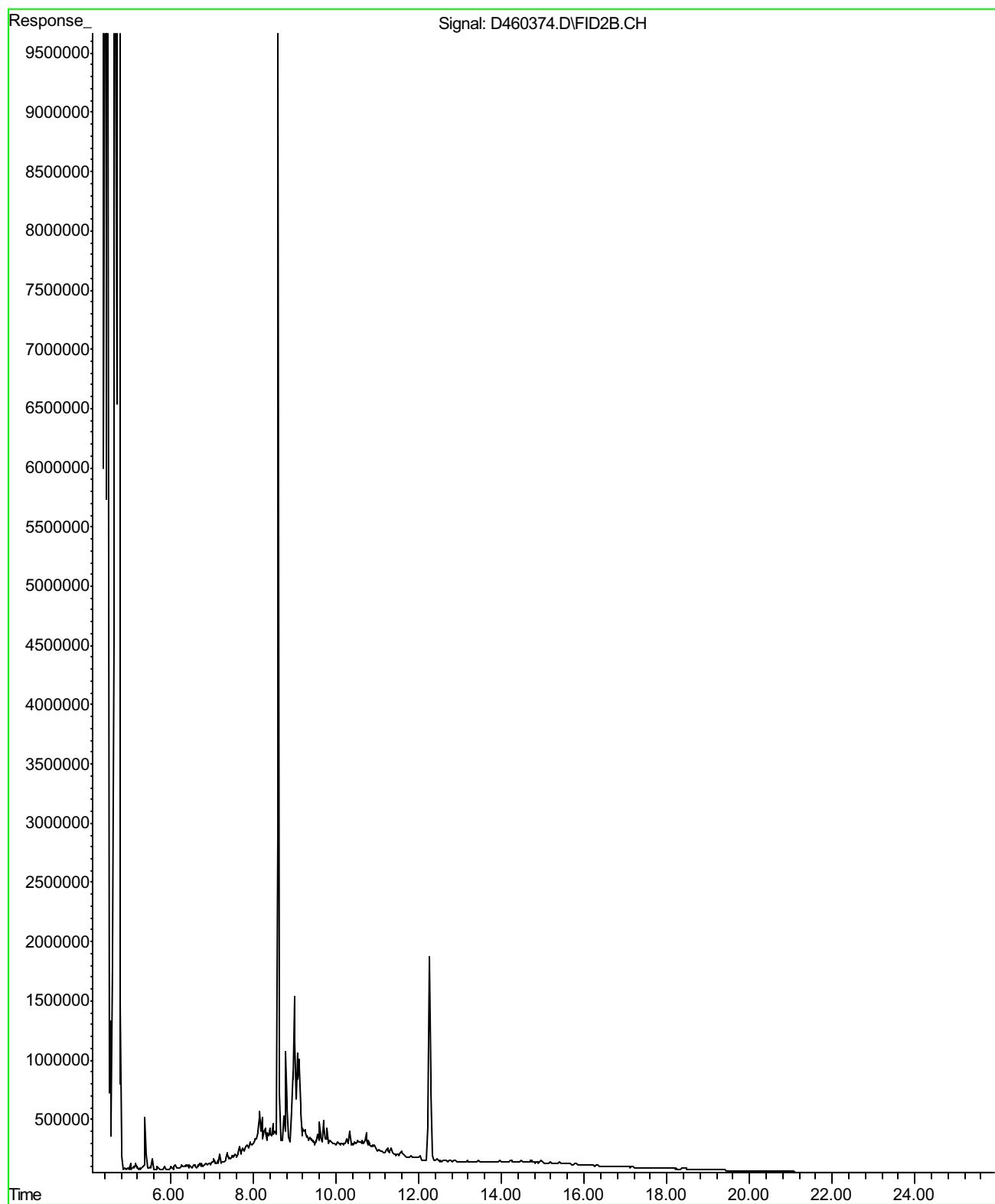


Sample ID : 65028-14 (NPORDMW-4)

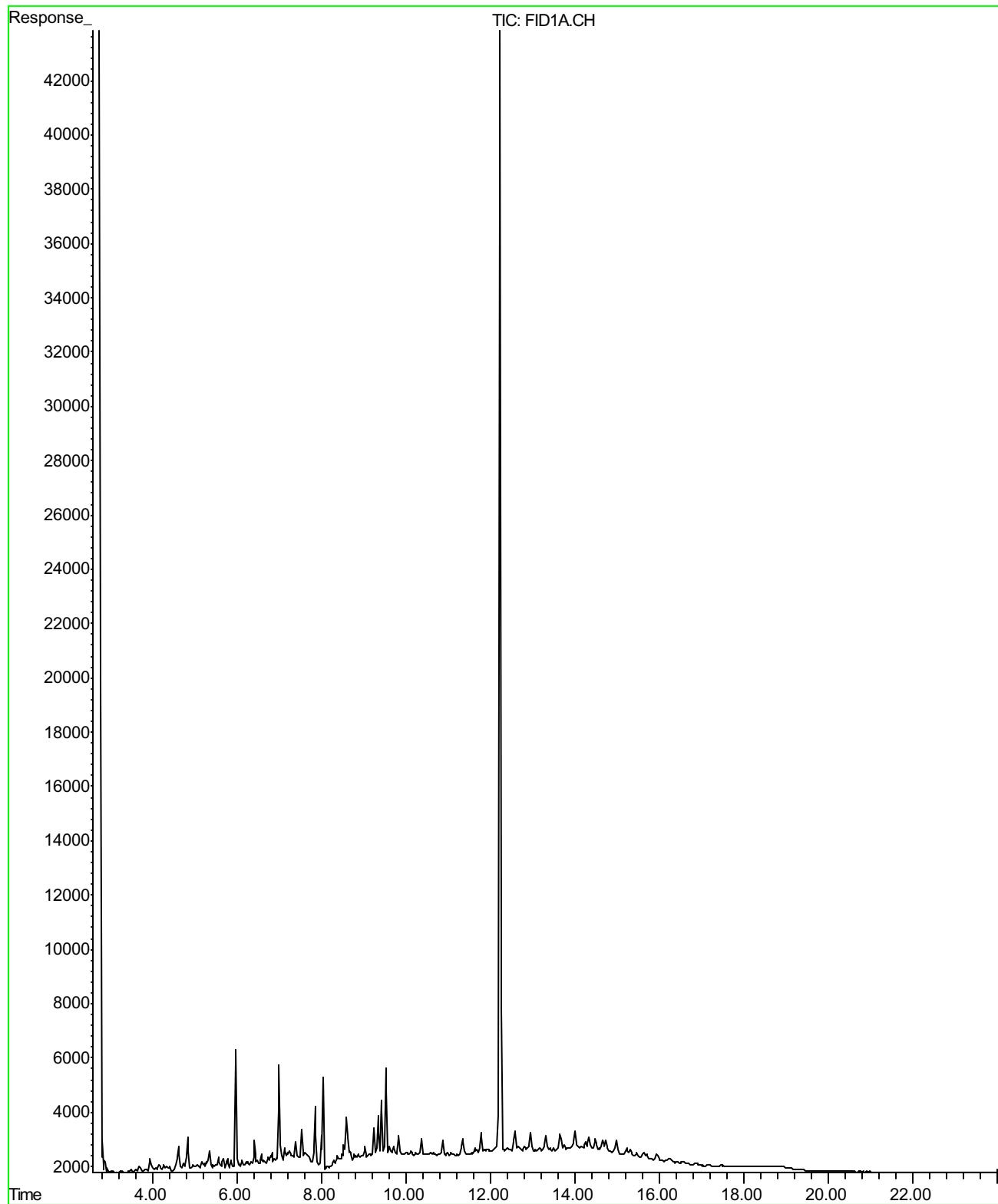
Date Analyzed : 10/01/2008

Data File : D460374

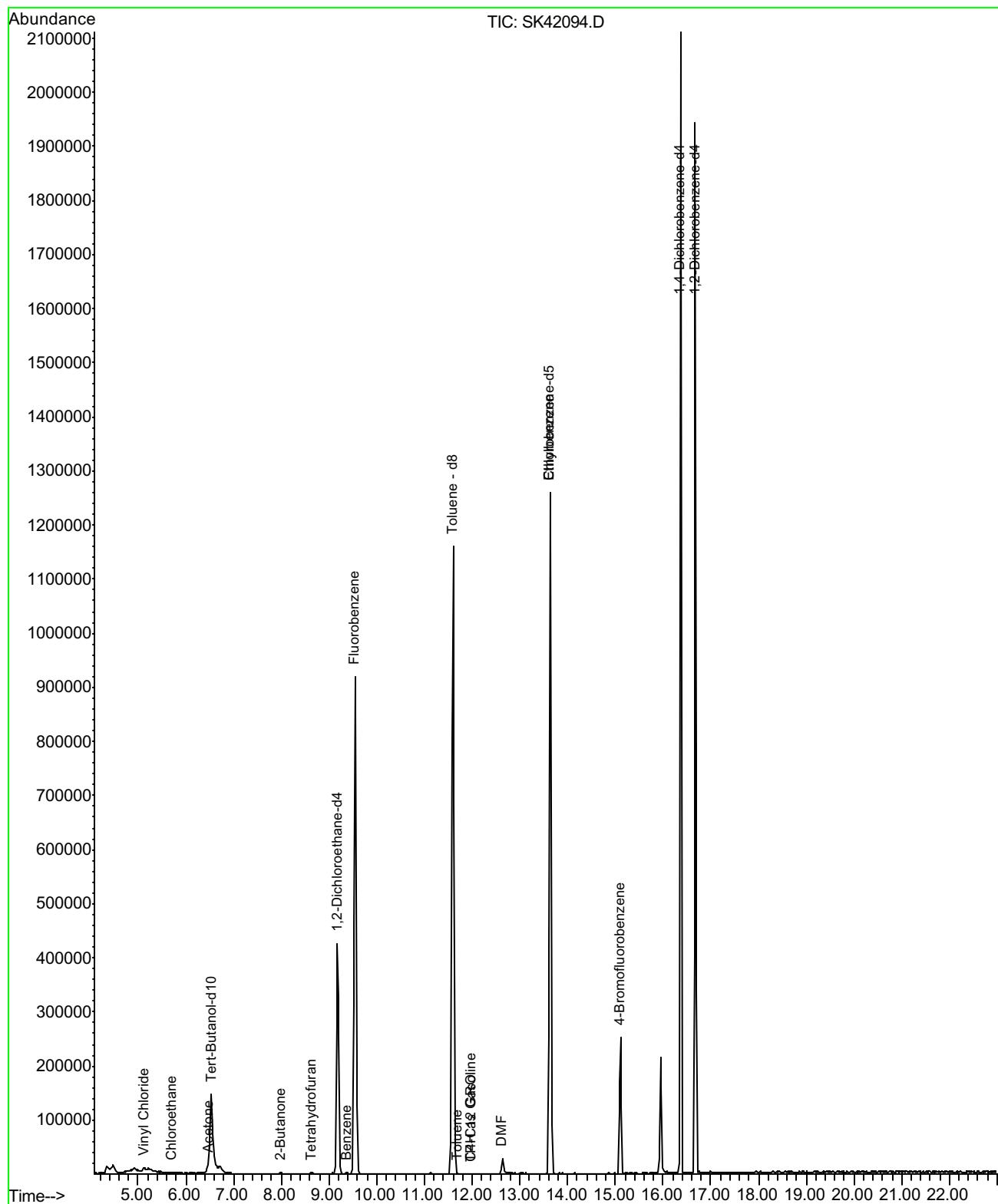
Analysis Method : M EPA 8015



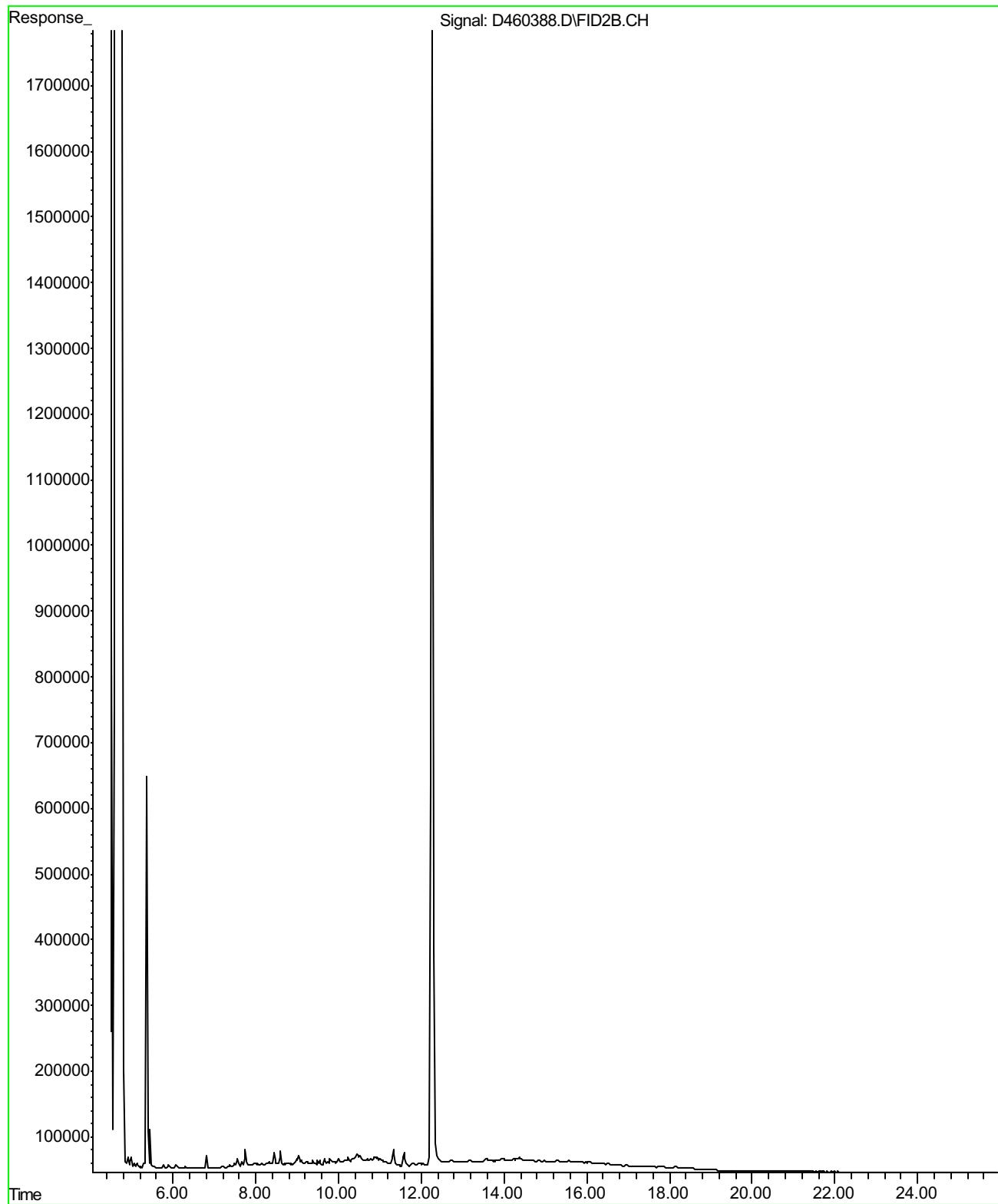
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Date Analyzed : 10/01/2008
Data File : D283173
Analysis Method : M EPA 8015



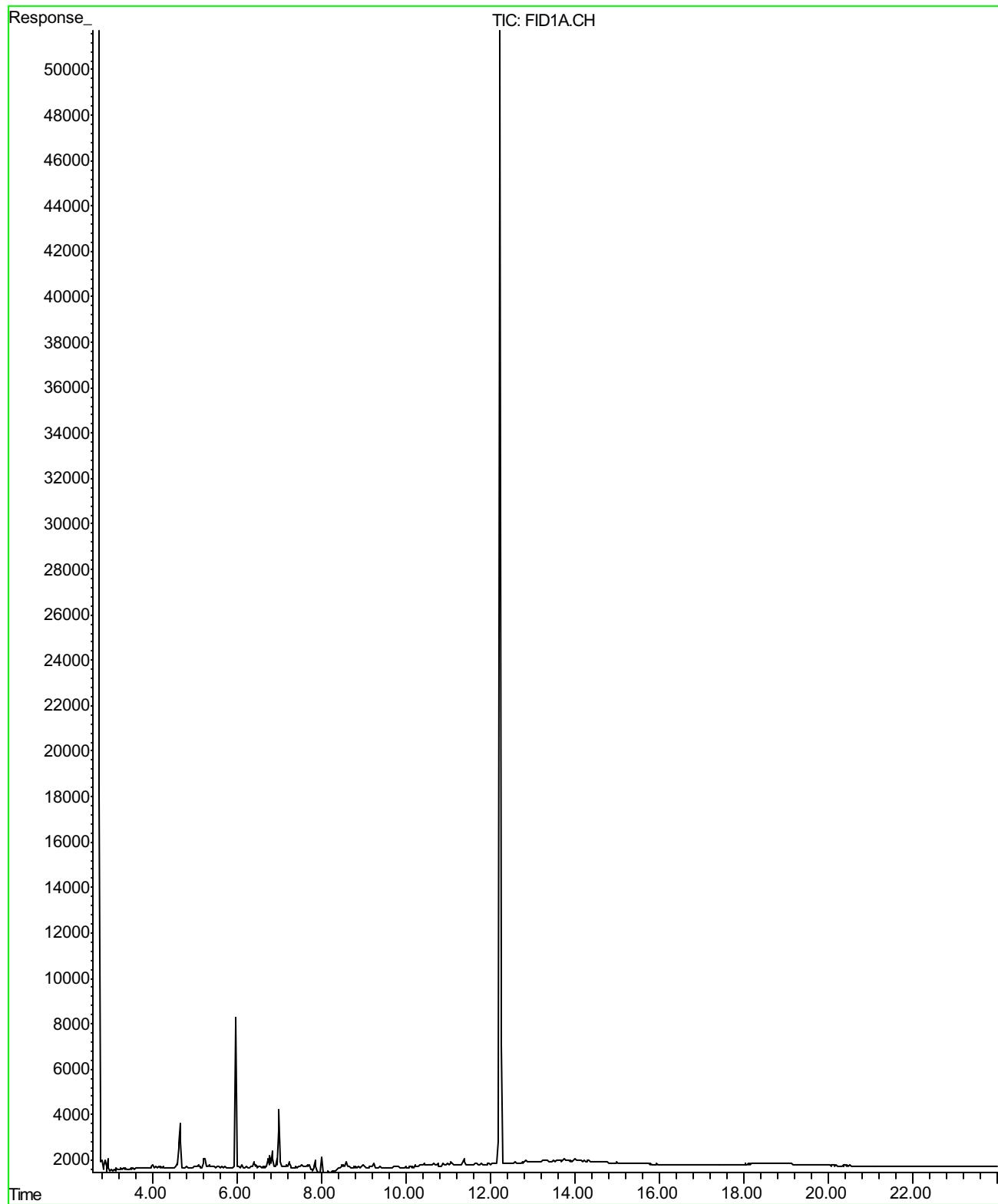
Sample ID : 65028-15 (QA)
Date Analyzed : 10/01/2008
Data File : SK42094
Analysis Method : EPA 8260B



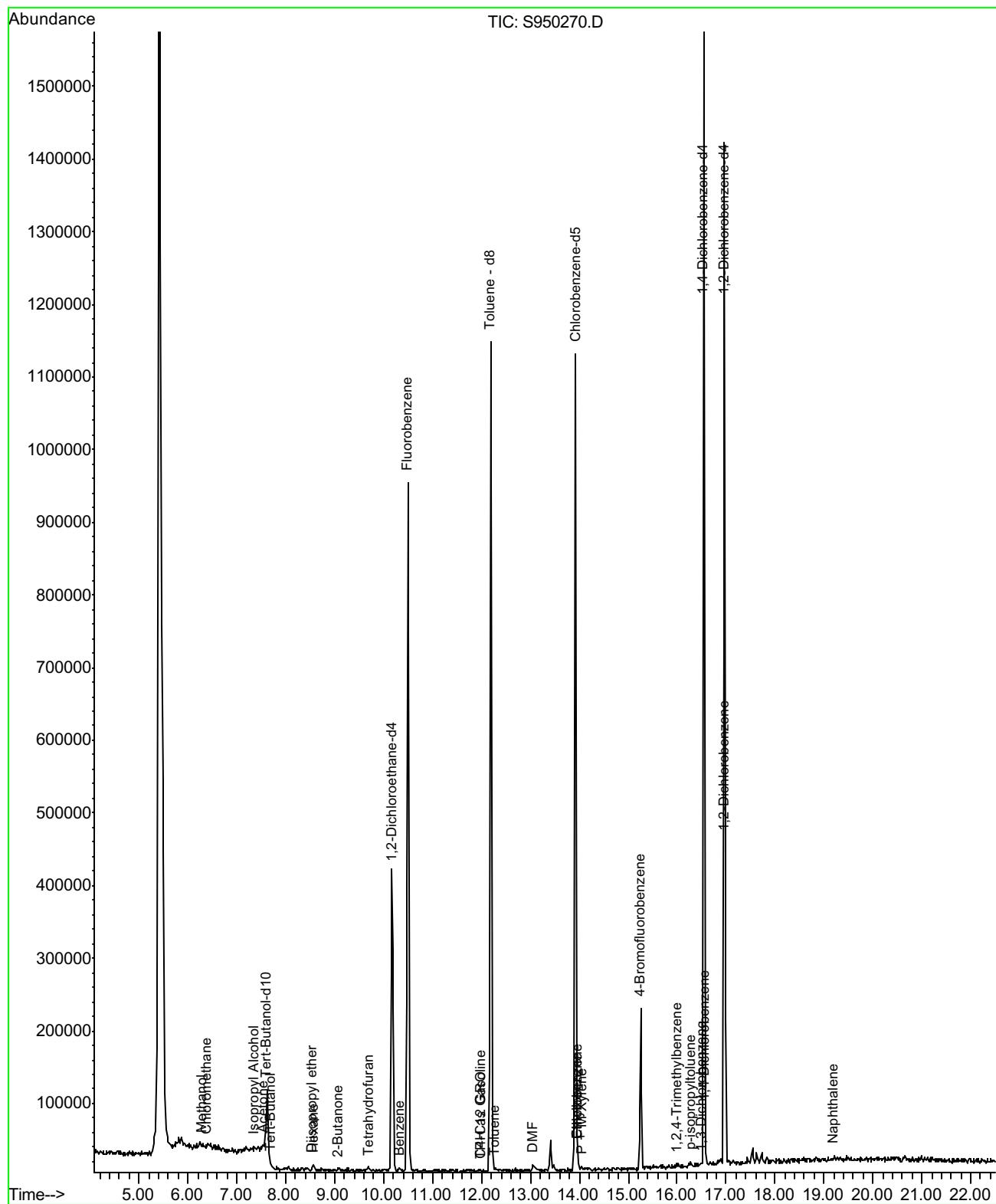
Sample ID : 65028-15 (QA)
Date Analyzed : 10/01/2008
Data File : D460388
Analysis Method : M EPA 8015



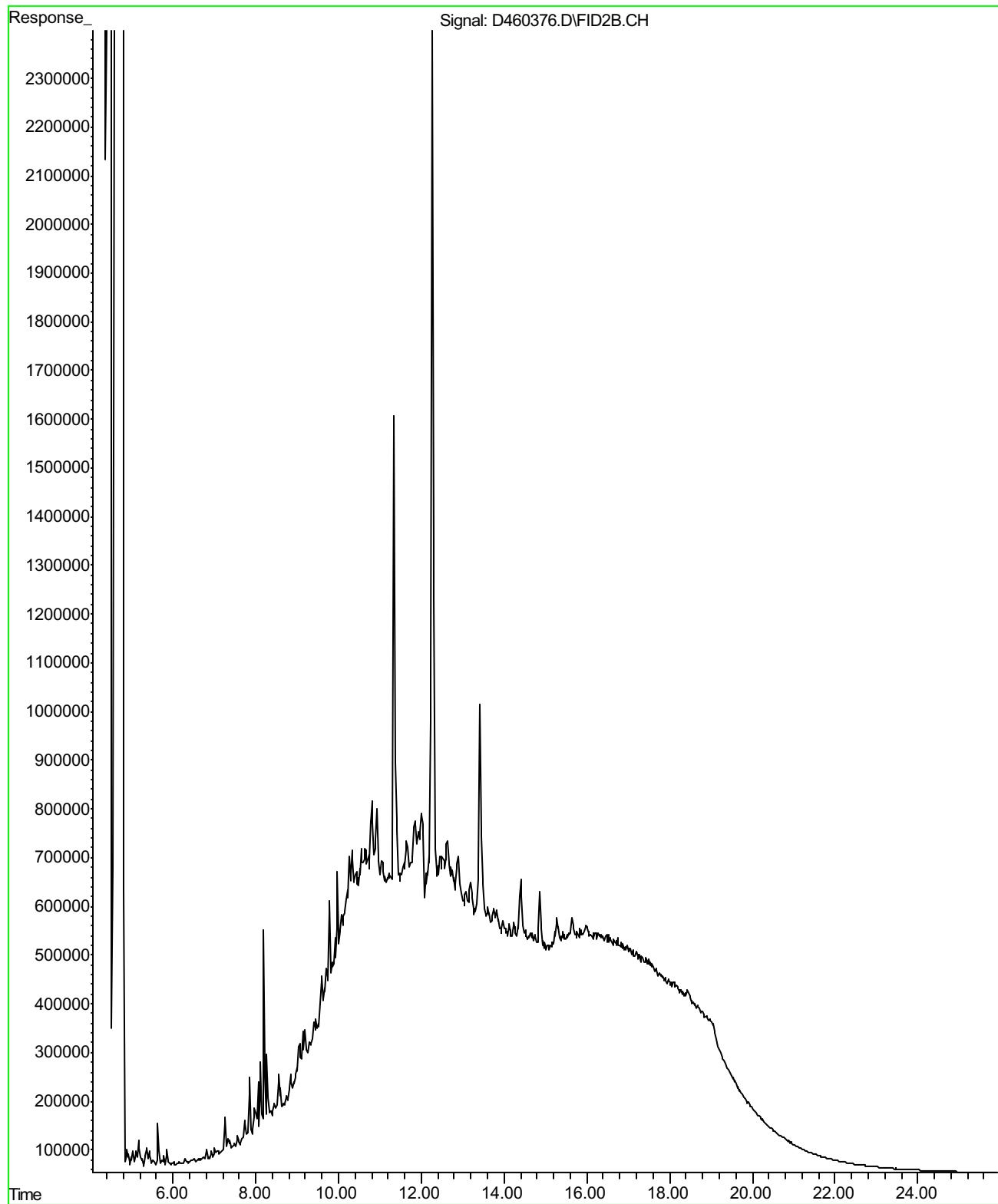
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Date Analyzed : 10/02/2008
Data File : D283236
Analysis Method : M EPA 8015



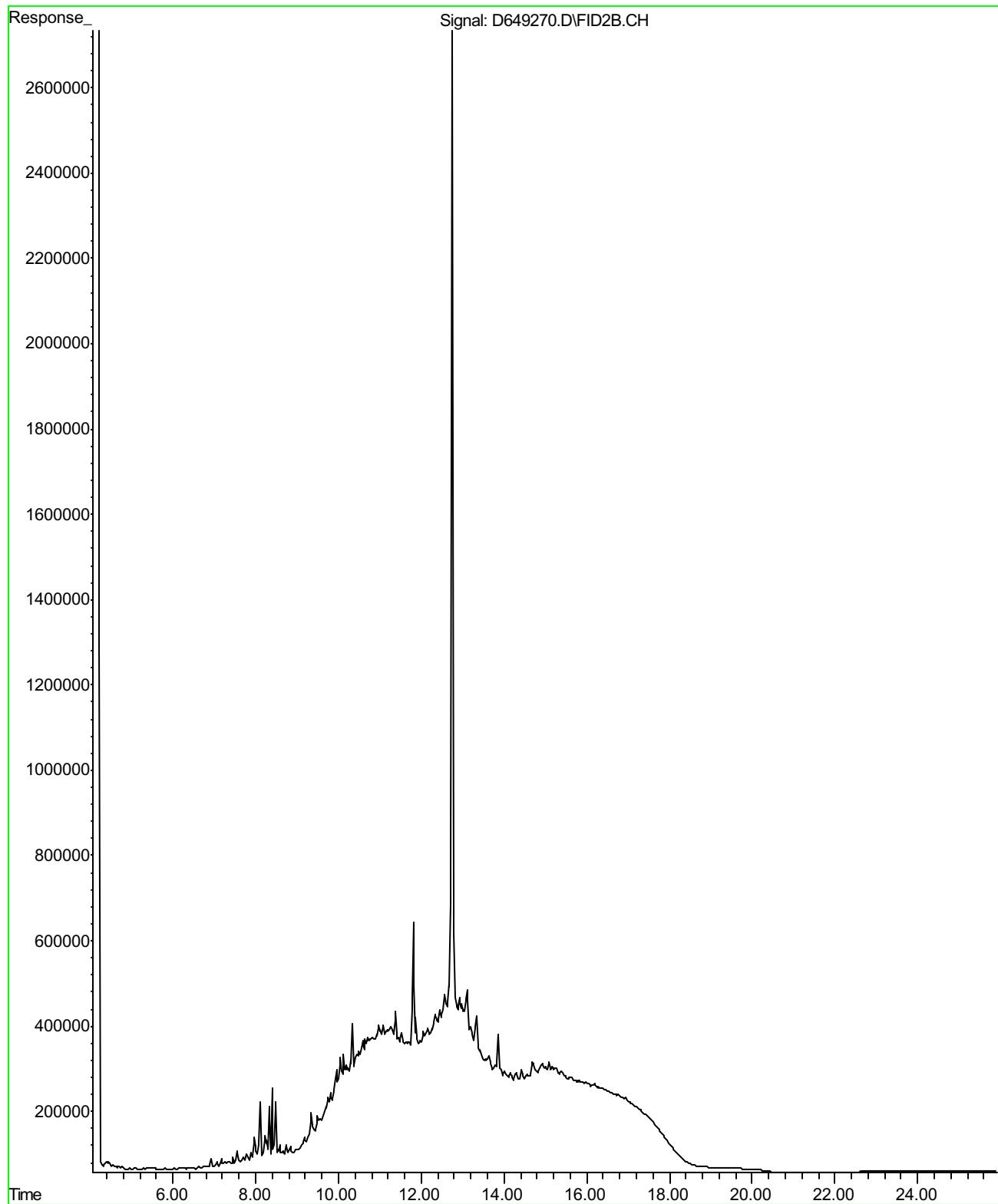
Sample ID : 65028-16 (MW-5)
Date Analyzed : 09/29/2008
Data File : S950270
Analysis Method : EPA 8260B



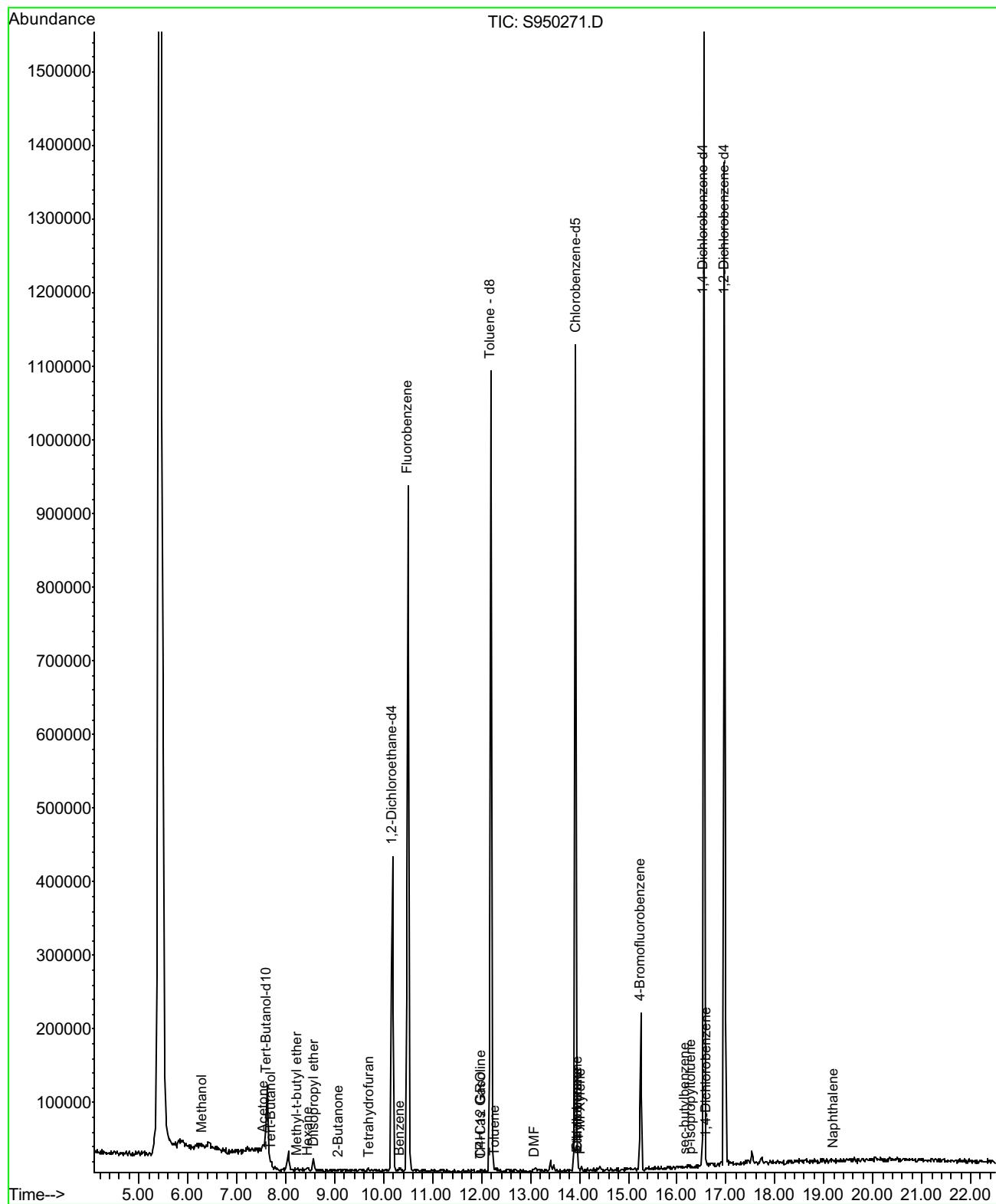
Sample ID : 65028-16 (MW-5)
Date Analyzed : 10/01/2008
Data File : D460376
Analysis Method : M EPA 8015



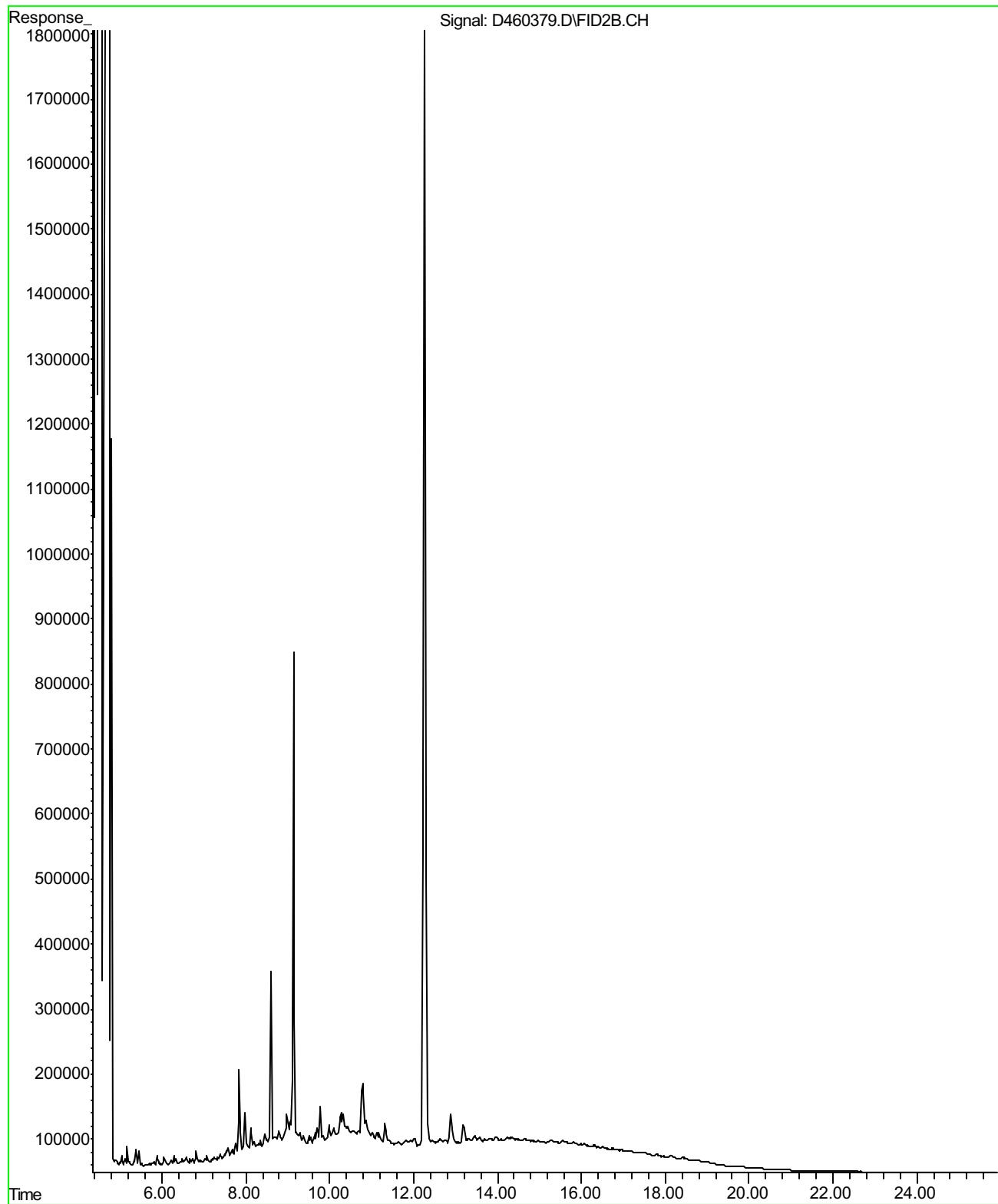
Sample ID : 65028-16 SI (MW-5)
Date Analyzed : 10/01/2008
Data File : D649270
Analysis Method : M EPA 8015



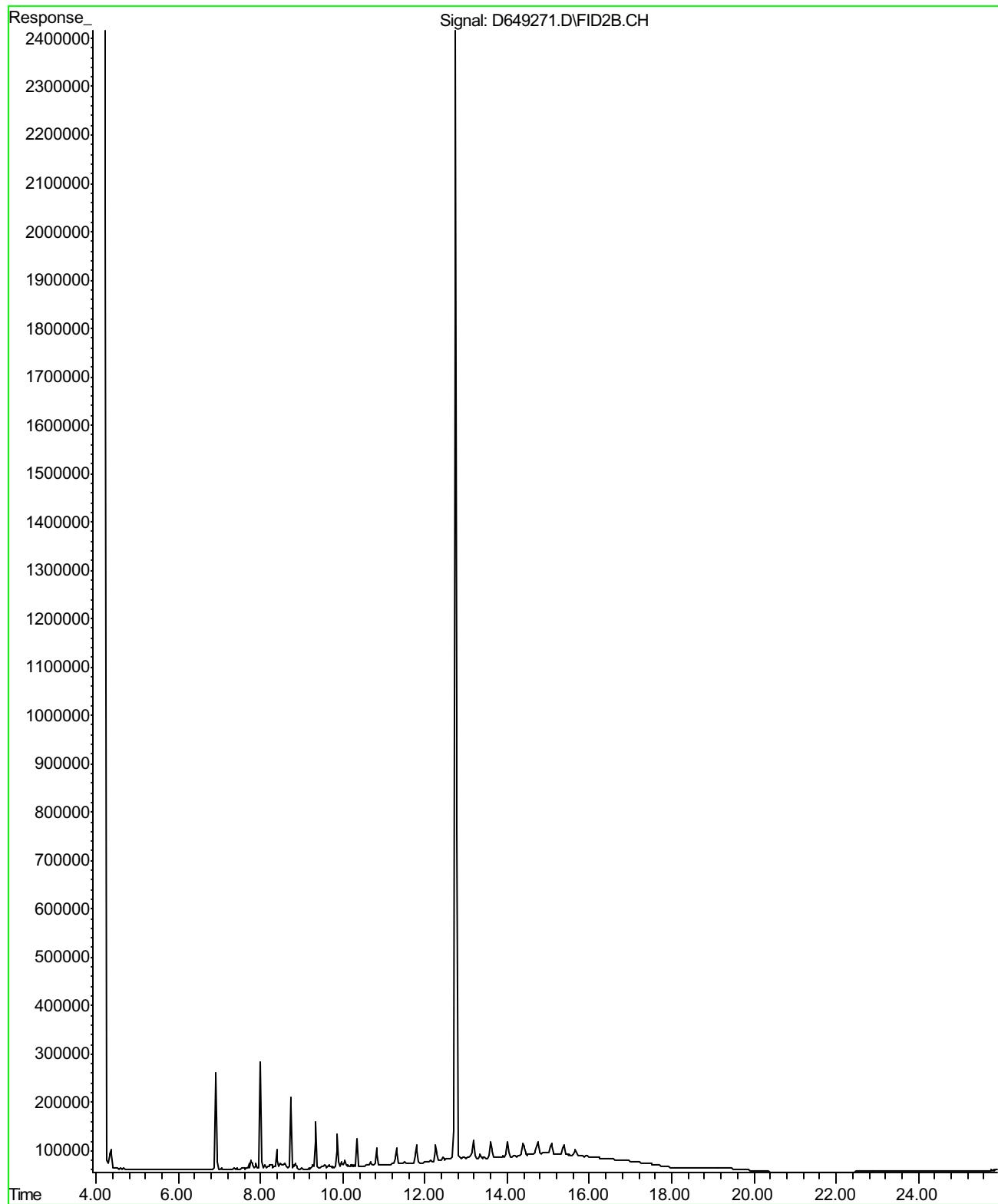
Sample ID : 65028-17 (MW-8)
Date Analyzed : 09/29/2008
Data File : S950271
Analysis Method : EPA 8260B



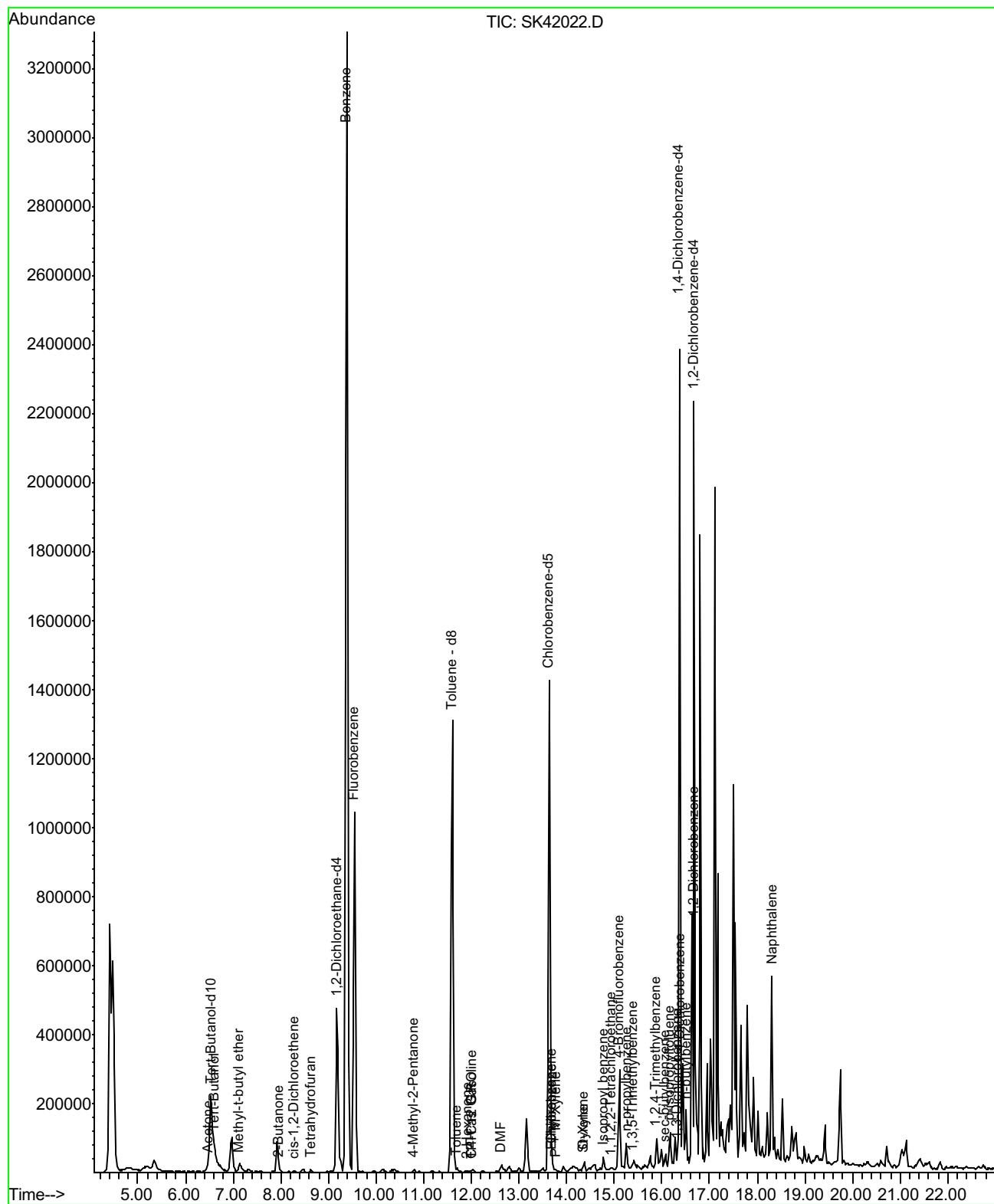
Sample ID : 65028-17 (MW-8)
Date Analyzed : 10/01/2008
Data File : D460379
Analysis Method : M EPA 8015



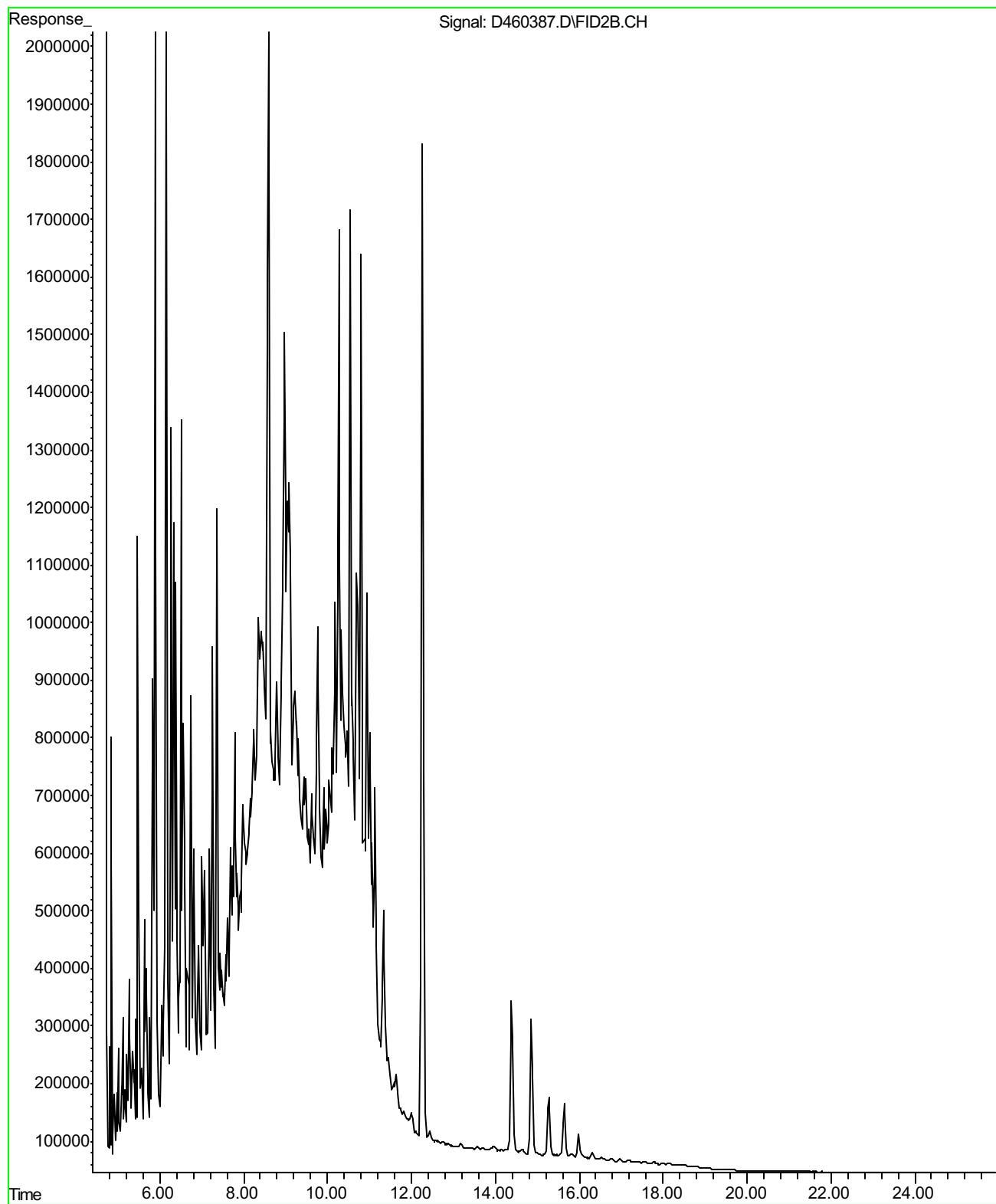
Sample ID : 65028-17 SI (MW-8)
Date Analyzed : 10/01/2008
Data File : D649271
Analysis Method : M EPA 8015



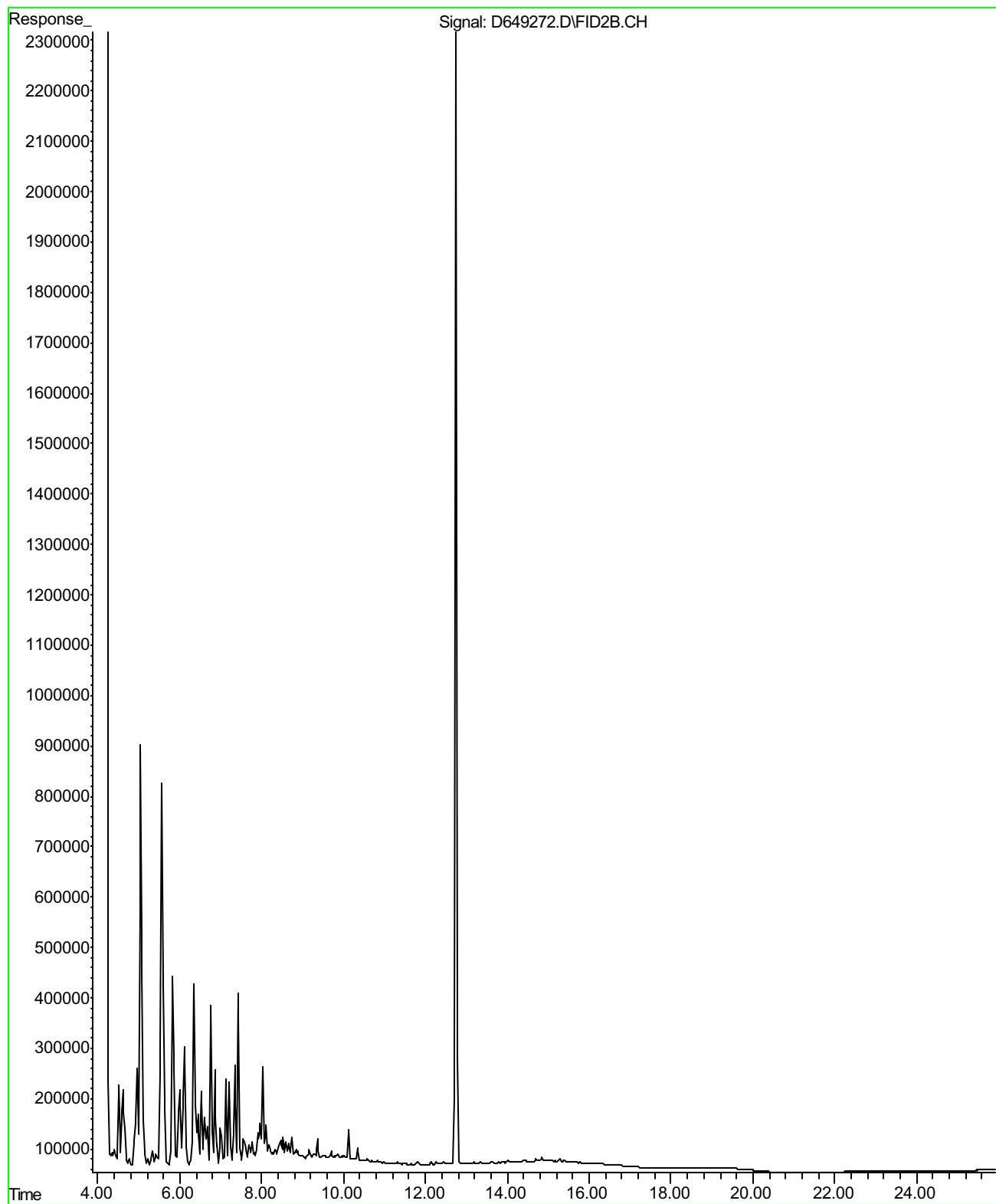
Sample ID : 65028-18 (MW-13)
Date Analyzed : 09/29/2008
Data File : SK42022
Analysis Method : EPA 8260B



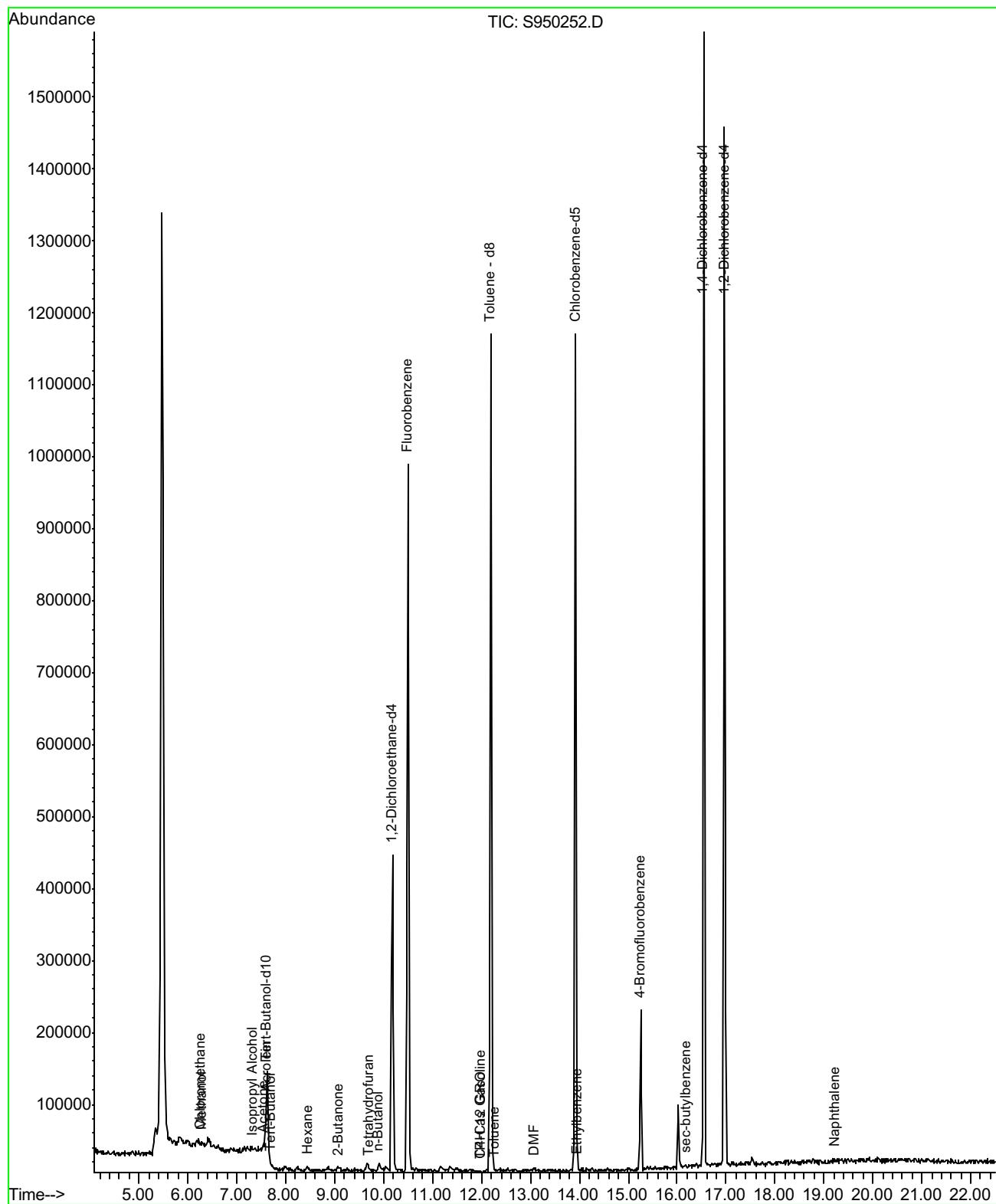
Sample ID : 65028-18 (MW-13)
Date Analyzed : 10/01/2008
Data File : D460387
Analysis Method : M EPA 8015



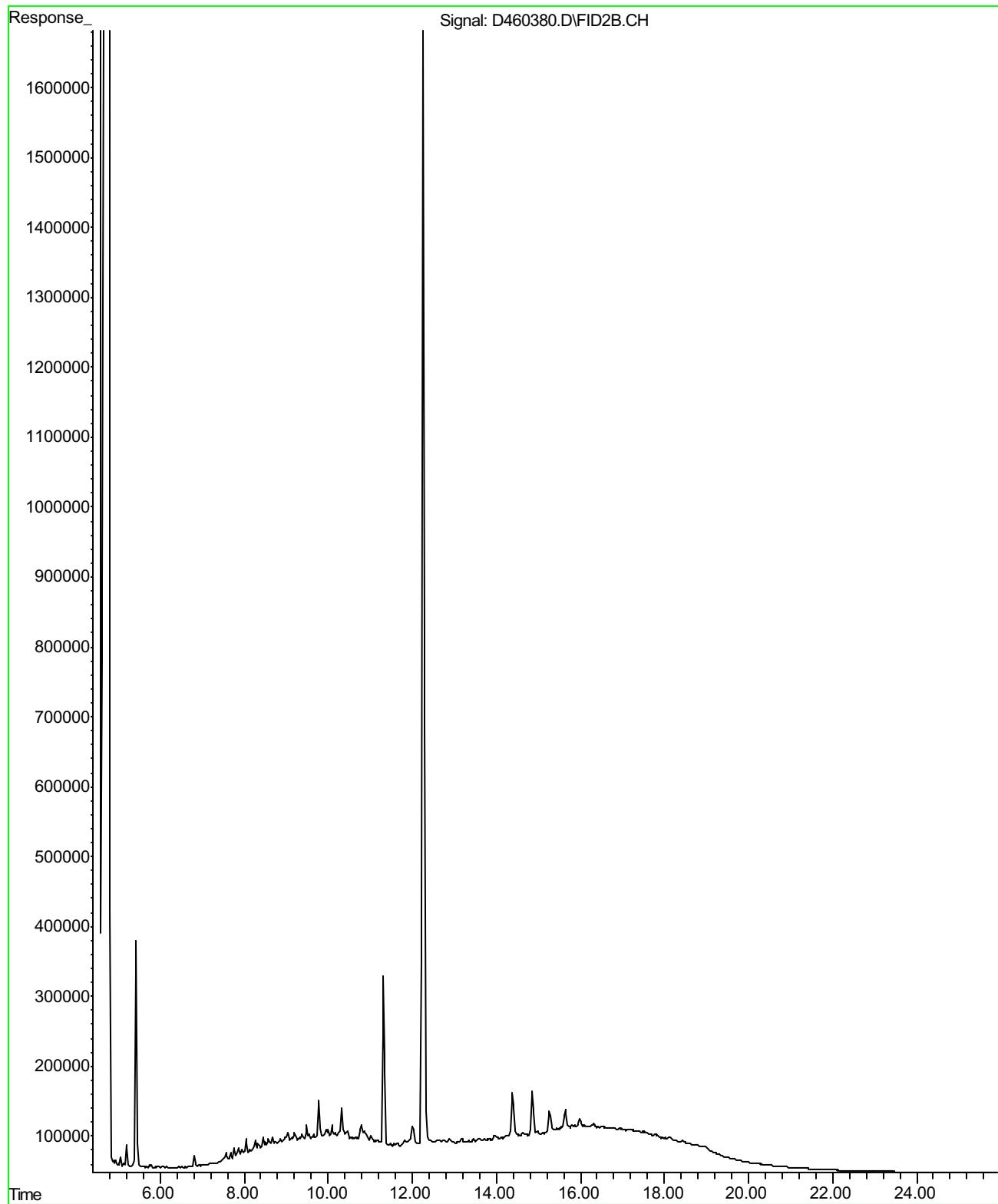
Sample ID : 65028-18 SI (MW-13)
Date Analyzed : 10/01/2008
Data File : D649272
Analysis Method : M EPA 8015



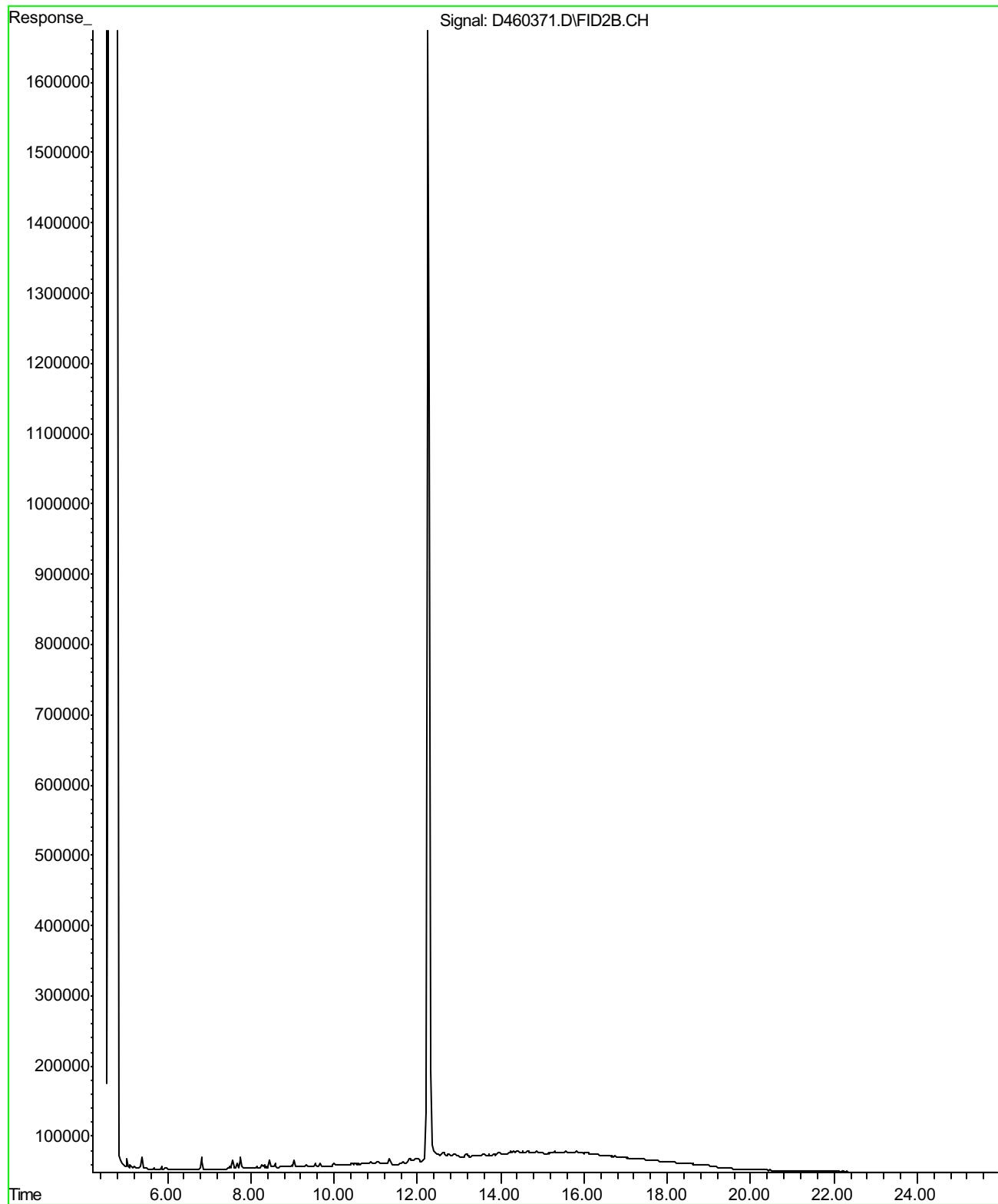
Sample ID : 65028-19 (MW-17)
Date Analyzed : 09/27/2008
Data File : S950252
Analysis Method : EPA 8260B



Sample ID : 65028-19 (MW-17)
Date Analyzed : 10/01/2008
Data File : D460380
Analysis Method : M EPA 8015



Sample ID : 65028-19 SI (MW-17)
Date Analyzed : 10/01/2008
Data File : D460371
Analysis Method : M EPA 8015



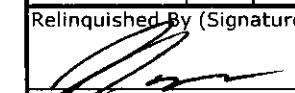
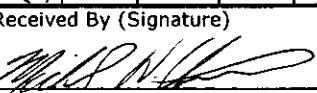
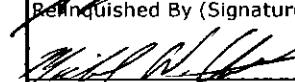
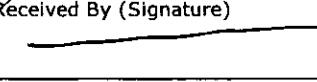
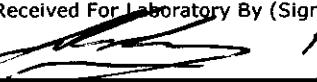
65028

Chain-of-Custody-Record

Yes
 No

Direct Bill To: Geoffrey Risse Gettler-Ryan Inc. 3140 Gold Camp Dr. Rancho Cordova, CA 95670	Facility	Rolls-Royce Engine Test Facility	(Name) Geoffrey Risse (Phone) 916-631-1300x12 Laboratory Name: Kiff Analytical Laboratory Service Order: Laboratory Service Code: Samples Collected by: (Name) Jim Hean Signature: 
	Facility Address:	6701 Old Earhart Road, Oakland, CA	
	Consultant Project #:	25-948218.1	
	Consultant Name:	GETTLER-RYAN INC.	
	Address:	3140 Gold Camp Dr., Suite 170, Rancho Cordova, CA 95670	
	Project Contact:	(Name) Geoffrey Risse e-mail grisse@grinc.com (Phone) 916-631-1300x12 (Fax) 916-631-1317	

Sample I.D.	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	DATE/SAMPLE COLLECTION TIME	State Method:						Series	<input type="checkbox"/> CO	<input type="checkbox"/> UT	<input type="checkbox"/> ID	Remarks
				TPH-Jet A Fuel (8015) (HCL)	TPH-MO (8015) (HCL)	TPH-D with Silica Gel Cleanup (8015) (HCL)	TPH-G/BTEX/MTBE/ Naphthalene (8260) (HCL)							
-MW-1	7	W	9/26/08 1030	X	X	X	X							01
-MW-2	7	W	1120	X	X	X	X							02
-MW-3	7	W	1345	X	X	X	X							03
-MW-4	7	W	1305	X	X	X	X							04
-MW-6	7	W	1240	X	X	X	X							05
-MW-7	7	W	1350	X	X	X	X							06
-MW-9	7	W	1320	X	X	X	X							07
-MW-10	7	W	1240	X	X	X	X							08
-MW-11	7	W	1240	X	X	X	X							09
-MW-12	7	W	1115	X	X	X	X							10
-MW-14	7	W	1150	X	X	X	X							11
-MW-15	7	W	1010	X	X	X	X							12
-NPnL MW-3	7	W	1200	X	X	X	X							13
-NPnL MW-4	7	W	1015	X	X	X	X							14

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced (Y/N)	Turn Around Time (Circle Choice)
	GR Inc	9/26/08 1700		GR Inc	09-26-08 1030		
	GR Inc	09-26-08 1030		GR Inc	09-26-08 1030		
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)	Organization	Date/Time	Iced (Y/N)	
				Kiff Analytical	09-26-08 1230		

24 Hrs.
 48 Hrs.
 5 Days
 10 Days
 As Contracted

65028

Yes
 No

Chain-of-Custody-Record