

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110323\
 Data File : VY016222.D
 Acq On : 03 Nov 2023 20:18
 Operator : SY/MD
 Sample : 04699-03 4.0 PPB
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2023

Quant Time: Nov 03 23:08:21 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 01 03:33:29 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 11/06/2023
 Supervised By : Mahesh Dadoda 11/06/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.807	168	144068	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.710	114	241135	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.508	117	213123	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.440	152	100338	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.161	65	73978	54.876	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.760%			
35) Dibromofluoromethane	7.740	113	70900	49.319	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.640%			
50) Toluene-d8	10.197	98	288127	50.551	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.100%			
62) 4-Bromofluorobenzene	12.495	95	94536	48.505	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.000%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.912	85	3487	3.794	ug/l	92
3) Chloromethane	2.125	50	4780	3.757	ug/l	94
4) Vinyl Chloride	2.260	62	4983	3.794	ug/l	93
5) Bromomethane	2.662	94	3733	4.212	ug/l	100
6) Chloroethane	2.808	64	3554	3.844	ug/l	99
7) Trichlorofluoromethane	3.137	101	7988	4.029	ug/l	95
8) Diethyl Ether	3.546	74	2824	4.298	ug/l	89
9) 1,1,2-Trichlorotrifluo...	3.912	101	4913	3.934	ug/l	97
10) Methyl Iodide	4.113	142	5570	4.010	ug/l	95
11) Tert butyl alcohol	4.979	59	3252	32.287	ug/l #	90
12) 1,1-Dichloroethene	3.893	96	4599	4.034	ug/l	81
13) Acrolein	3.753	56	1526	8.378	ug/l	100
14) Allyl chloride	4.509	41	7131	4.373	ug/l #	96
15) Acrylonitrile	5.186	53	6326	22.530	ug/l	99
16) Acetone	3.967	43	5829	8.668	ug/l #	86
17) Carbon Disulfide	4.223	76	10328	3.629	ug/l	99
18) Methyl Acetate	4.503	43	5443	5.021	ug/l	92
19) Methyl tert-butyl Ether	5.247	73	14318	4.416	ug/l	94
20) Methylene Chloride	4.741	84	12322	6.326	ug/l	87
21) trans-1,2-Dichloroethene	5.247	96	5575	4.198	ug/l	89
22) Diisopropyl ether	6.137	45	16710	4.237	ug/l	94
23) Vinyl Acetate	6.082	43	37776	19.508	ug/l	99
24) 1,1-Dichloroethane	6.045	63	10330	4.376	ug/l #	96
25) 2-Butanone	7.003	43	7898	21.235	ug/l	98
26) 2,2-Dichloropropane	7.003	77	8765	3.928	ug/l	98
27) cis-1,2-Dichloroethene	7.009	96	6738	4.312	ug/l	90
28) Bromochloromethane	7.362	49	3741	4.235	ug/l #	97
29) Tetrahydrofuran	7.368	42	5100	21.875	ug/l	93
30) Chloroform	7.527	83	13628	5.303	ug/l	99
31) Cyclohexane	7.813	56	9696	4.679	ug/l #	64
32) 1,1,1-Trichloroethane	7.722	97	9927	4.212	ug/l	99
36) 1,1-Dichloropropene	7.941	75	8243	3.971	ug/l	96
37) Ethyl Acetate	7.094	43	3784	4.093	ug/l	97
38) Carbon Tetrachloride	7.923	117	8489	4.128	ug/l	97
39) Methylcyclohexane	9.203	83	9008	3.635	ug/l #	87
40) Benzene	8.179	78	24441	4.101	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.332	41	1723	3.211	ug/l #	81
42) 1,2-Dichloroethane	8.258	62	7278	4.376	ug/l	92
43) Isopropyl Acetate	8.295	43	7262	3.971	ug/l #	87
44) Trichloroethene	8.960	130	6874	3.942	ug/l	97
45) 1,2-Dichloropropane	9.228	63	5988	4.177	ug/l	98
46) Dibromomethane	9.325	93	3239	3.983	ug/l	97
47) Bromodichloromethane	9.514	83	9880	4.781	ug/l	94
48) Methyl methacrylate	9.307	41	3361	4.041	ug/l	98
49) 1,4-Dioxane	9.319	88	786	Below Cal	#	77
51) 4-Methyl-2-Pentanone	10.081	43	18621	20.406	ug/l	92
52) Toluene	10.258	92	16077	4.163	ug/l	96
53) t-1,3-Dichloropropene	10.478	75	8299	4.023	ug/l	97
54) cis-1,3-Dichloropropene	9.941	75	9885	4.084	ug/l #	85
55) 1,1,2-Trichloroethane	10.660	97	4934	4.313	ug/l #	88
56) Ethyl methacrylate	10.526	69	5686	3.827	ug/l #	85
57) 1,3-Dichloropropane	10.807	76	8117	4.168	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.801	63	14082	19.547	ug/l	93
59) 2-Hexanone	10.849	43	12067	19.297	ug/l	91
60) Dibromochloromethane	11.002	129	5962	4.154	ug/l	98
61) 1,2-Dibromoethane	11.105	107	4569	4.199	ug/l	96
64) Tetrachloroethene	10.734	164	7294	3.848	ug/l	93
65) Chlorobenzene	11.532	112	16713	3.947	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.605	131	6400	4.081	ug/l	96
67) Ethyl Benzene	11.605	91	28457	3.757	ug/l	96
68) m/p-Xylenes	11.715	106	22564	7.710	ug/l	93
69) o-Xylene	12.044	106	10459	3.743	ug/l	97
70) Styrene	12.057	104	16978	3.655	ug/l	96
71) Bromoform	12.221	173	3446	3.961	ug/l #	99
73) Isopropylbenzene	12.343	105	27454	3.648	ug/l	98
74) N-amyl acetate	12.154	43	5725	3.500	ug/l	91
75) 1,1,2,2-Tetrachloroethane	12.599	83	5130	4.283	ug/l	100
76) 1,2,3-Trichloropropane	12.648	75	3422m	3.622	ug/l	
77) Bromobenzene	12.624	156	6980	4.096	ug/l	94
78) n-propylbenzene	12.684	91	34110	3.833	ug/l	100
79) 2-Chlorotoluene	12.770	91	18939	3.816	ug/l	99
80) 1,3,5-Trimethylbenzene	12.825	105	21753	3.567	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.398	75	1557	3.573	ug/l	94
82) 4-Chlorotoluene	12.867	91	20245	3.972	ug/l	100
83) tert-Butylbenzene	13.087	119	20199	3.702	ug/l	97
84) 1,2,4-Trimethylbenzene	13.136	105	22610	3.747	ug/l	99
85) sec-Butylbenzene	13.264	105	29491	3.683	ug/l	98
86) p-Isopropyltoluene	13.379	119	23742	3.577	ug/l	98
87) 1,3-Dichlorobenzene	13.379	146	13764	4.084	ug/l	98
88) 1,4-Dichlorobenzene	13.459	146	13523	4.059	ug/l	95
89) n-Butylbenzene	13.709	91	22476	3.686	ug/l	97
90) Hexachloroethane	13.977	117	4444	3.885	ug/l	98
91) 1,2-Dichlorobenzene	13.751	146	11945	4.102	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.367	75	1025	4.782	ug/l	82
93) 1,2,4-Trichlorobenzene	15.019	180	7107	3.954	ug/l	97
94) Hexachlorobutadiene	15.123	225	4041	4.114	ug/l	97
95) Naphthalene	15.251	128	12494	3.578	ug/l	98
96) 1,2,3-Trichlorobenzene	15.434	180	5804	3.780	ug/l	97

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(#) = qualifier out of range (m) = manual integration (+) = signals summed

