

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041423\
 Data File : VY013314.D
 Acq On : 14 Apr 2023 13:23
 Operator : KP/MD
 Sample : 02213-03 2.5PPB
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT2-2023

Quant Time: Apr 17 04:14:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y041223S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 17 04:14:31 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/17/2023
 Supervised By : Mahesh Dadoda 04/17/2023

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

Internal Standards						
1) Pentafluorobenzene	7.783	168	267349	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	428034	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.483	117	383366	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	190541	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	161516	50.271	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.540%			
35) Dibromofluoromethane	7.716	113	144067	51.990	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.980%			
50) Toluene-d8	10.179	98	516330	50.059	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 100.120%			
62) 4-Bromofluorobenzene	12.477	95	166383	49.648	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 99.300%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.900	85	6571	2.731	ug/l	96
3) Chloromethane	2.107	50	8474	2.811	ug/l	97
4) Vinyl Chloride	2.247	62	7008	2.452	ug/l	98
5) Bromomethane	2.649	94	5735	2.617	ug/l	94
6) Chloroethane	2.790	64	4451	2.309	ug/l	92
7) Trichlorofluoromethane	3.119	101	12777	2.872	ug/l	96
8) Diethyl Ether	3.521	74	4766	2.949	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.887	101	7388	2.826	ug/l	93
10) Methyl Iodide	4.082	142	7917	2.469	ug/l	89
11) Tert butyl alcohol	4.911	59	14263	27.778	ug/l #	74
12) 1,1-Dichloroethene	3.863	96	7378	2.933	ug/l	84
13) Acrolein	3.729	56	6188	15.678	ug/l	89
14) Allyl chloride	4.472	41	13076	2.721	ug/l	99
15) Acrylonitrile	5.155	53	12565	13.529	ug/l	94
16) Acetone	3.948	43	17194	15.565	ug/l	90
17) Carbon Disulfide	4.186	76	21894	2.643	ug/l	99
18) Methyl Acetate	4.478	43	10295	2.881	ug/l	99
19) Methyl tert-butyl Ether	5.222	73	19482	2.585	ug/l	98
20) Methylene Chloride	4.704	84	21711	6.331	ug/l	97
21) trans-1,2-Dichloroethene	5.210	96	7983	2.780	ug/l	96
22) Diisopropyl ether	6.112	45	22462	2.372	ug/l #	88
23) Vinyl Acetate	6.051	43	69237	11.564	ug/l	100
24) 1,1-Dichloroethane	6.009	63	14341	2.711	ug/l	98
25) 2-Butanone	6.984	43	20783	14.693	ug/l	95
26) 2,2-Dichloropropane	6.972	77	15110	3.183	ug/l	86
27) cis-1,2-Dichloroethene	6.972	96	8603	2.755	ug/l	88
28) Bromochloromethane	7.325	49	5394	2.558	ug/l #	93
29) Tetrahydrofuran	7.344	42	11264	13.112	ug/l	99
30) Chloroform	7.502	83	14843	2.772	ug/l	100
31) Cyclohexane	7.777	56	16751	3.448	ug/l #	64
32) 1,1,1-Trichloroethane	7.697	97	12552	2.592	ug/l	95
36) 1,1-Dichloropropene	7.905	75	10556	2.515	ug/l	98
37) Ethyl Acetate	7.076	43	8085	2.389	ug/l	97
38) Carbon Tetrachloride	7.886	117	12235	2.636	ug/l #	86
39) Methylcyclohexane	9.179	83	11883	2.435	ug/l	92
40) Benzene	8.155	78	31236	2.571	ug/l	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.307	41	3357	2.391	ug/l #	100
42) 1,2-Dichloroethane	8.228	62	11053	2.683	ug/l	97
43) Isopropyl Acetate	8.277	43	14048	2.499	ug/l #	86
44) Trichloroethene	8.941	130	8628	2.757	ug/l	94
45) 1,2-Dichloropropane	9.209	63	8085	2.564	ug/l	92
46) Dibromomethane	9.295	93	5460	2.877	ug/l	91
47) Bromodichloromethane	9.490	83	11500	2.650	ug/l	91
48) Methyl methacrylate	9.289	41	5576	2.160	ug/l	93
49) 1,4-Dioxane	9.319	88	1345	52.304	ug/l #	75
51) 4-Methyl-2-Pentanone	10.069	43	38571	12.609	ug/l	96
52) Toluene	10.240	92	19586	2.670	ug/l	97
53) t-1,3-Dichloropropene	10.459	75	11590	2.551	ug/l	95
54) cis-1,3-Dichloropropene	9.923	75	12090	2.427	ug/l	91
55) 1,1,2-Trichloroethane	10.642	97	6612	2.642	ug/l	95
56) Ethyl methacrylate	10.508	69	8261	2.411	ug/l	93
57) 1,3-Dichloropropane	10.788	76	11210	2.634	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.776	63	17278	12.076	ug/l	100
59) 2-Hexanone	10.831	43	27558	12.390	ug/l	97
60) Dibromochloromethane	10.977	129	8399	2.677	ug/l	99
61) 1,2-Dibromoethane	11.081	107	6773	2.779	ug/l	97
64) Tetrachloroethene	10.715	164	7576	2.801	ug/l	96
65) Chlorobenzene	11.514	112	22304	2.781	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.587	131	8004	2.660	ug/l	98
67) Ethyl Benzene	11.593	91	33695	2.412	ug/l	96
68) m/p-Xylenes	11.697	106	24591	4.601	ug/l	97
69) o-Xylene	12.026	106	11821	2.388	ug/l	96
70) Styrene	12.038	104	19529	2.336	ug/l	98
71) Bromoform	12.203	173	5612	2.692	ug/l #	93
73) Isopropylbenzene	12.325	105	31066	2.377	ug/l	100
74) N-amyl acetate	12.142	43	10864	2.330	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.581	83	9139	2.831	ug/l	93
76) 1,2,3-Trichloropropane	12.623	75	8057m	3.393	ug/l	
77) Bromobenzene	12.605	156	8919	2.729	ug/l	99
78) n-propylbenzene	12.666	91	41453	2.568	ug/l	99
79) 2-Chlorotoluene	12.751	91	22852	2.515	ug/l	97
80) 1,3,5-Trimethylbenzene	12.806	105	27191	2.484	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.379	75	2833	2.476	ug/l	98
82) 4-Chlorotoluene	12.849	91	23855	2.490	ug/l	99
83) tert-Butylbenzene	13.068	119	22669	2.413	ug/l	98
84) 1,2,4-Trimethylbenzene	13.117	105	24858	2.333	ug/l	98
85) sec-Butylbenzene	13.251	105	34201	2.435	ug/l	99
86) p-Isopropyltoluene	13.367	119	27408	2.378	ug/l	98
87) 1,3-Dichlorobenzene	13.361	146	17315	2.748	ug/l	98
88) 1,4-Dichlorobenzene	13.440	146	18549	2.913	ug/l	88
89) n-Butylbenzene	13.696	91	26843	2.435	ug/l	97
90) Hexachloroethane	13.952	117	6590	2.742	ug/l	88
91) 1,2-Dichlorobenzene	13.733	146	15451	2.695	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.355	75	1839	3.136	ug/l	88
93) 1,2,4-Trichlorobenzene	15.001	180	10012	2.938	ug/l	98
94) Hexachlorobutadiene	15.111	225	6378	3.161	ug/l	96
95) Naphthalene	15.233	128	19517	2.629	ug/l	98
96) 1,2,3-Trichlorobenzene	15.422	180	9430	3.038	ug/l	97

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

