

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091222\
 Data File : VN074407.D
 Acq On : 12 Sep 2022 12:22
 Operator : JC\MD
 Sample : MDL02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/14/2022
 Supervised By : Mahesh Dadoda 09/14/2022

Quant Time: Sep 13 09:15:09 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N090922W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 13 09:10:07 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.016	168	257991	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	464655	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	401085	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	155704	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	225422	50.502	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.000%			
35) Dibromofluoromethane	7.951	113	164269	52.367	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.740%			
50) Toluene-d8	10.380	98	577196	47.223	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.440%			
62) 4-Bromofluorobenzene	12.674	95	178212	40.159	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 80.320%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.046	85	2091	0.625	ug/l	92
3) Chloromethane	2.257	50	2942m	0.624	ug/l	
4) Vinyl Chloride	2.399	62	3739	0.669	ug/l #	45
5) Bromomethane	2.793	94	3876	0.993	ug/l #	32
7) Trichlorofluoromethane	3.316	101	2543	0.461	ug/l	95
8) Diethyl Ether	3.775	74	1016	0.437	ug/l	65
9) 1,1,2-Trichlorotrifluo...	4.128	101	2228m	0.674	ug/l	
10) Methyl Iodide	4.363	142	1745m	0.457	ug/l	
11) Tert butyl alcohol	5.275	59	3338m	2.859	ug/l	
12) 1,1-Dichloroethene	4.122	96	1934m	0.601	ug/l	
13) Acrolein	3.981	56	2904	3.745	ug/l #	64
14) Allyl chloride	4.751	41	4508m	0.639	ug/l	
15) Acrylonitrile	5.493	53	6877m	2.575	ug/l	
16) Acetone	4.234	43	8700	3.610	ug/l #	74
17) Carbon Disulfide	4.440	76	5682	0.650	ug/l #	77
18) Methyl Acetate	4.775	43	8001m	1.126	ug/l	
19) Methyl tert-butyl Ether	5.551	73	6614	0.511	ug/l #	82
20) Methylene Chloride	5.004	84	3225m	0.775	ug/l	
21) trans-1,2-Dichloroethene	5.534	96	2097m	0.582	ug/l	
22) Diisopropyl ether	6.416	45	6649	0.468	ug/l #	93
23) Vinyl Acetate	6.351	43	27815m	2.194	ug/l	
24) 1,1-Dichloroethane	6.281	63	3307m	0.453	ug/l	
25) 2-Butanone	7.269	43	10793	2.668	ug/l #	68
26) 2,2-Dichloropropane	7.245	77	2994	0.453	ug/l	93
27) cis-1,2-Dichloroethene	7.257	96	2435	0.548	ug/l	79
28) Bromochloromethane	7.592	49	1357m	0.523	ug/l	
29) Tetrahydrofuran	7.622	42	7534	2.817	ug/l #	59
30) Chloroform	7.739	83	4255	0.584	ug/l	93
31) Cyclohexane	8.022	56	10715	1.509	ug/l #	35
32) 1,1,1-Trichloroethane	7.945	97	3235m	0.495	ug/l	
36) 1,1-Dichloropropene	8.151	75	2788	0.539	ug/l #	49
37) Ethyl Acetate	7.328	43	4520	0.603	ug/l #	82
38) Carbon Tetrachloride	8.134	117	2351m	0.441	ug/l	
39) Methylcyclohexane	9.392	83	2416	0.369	ug/l #	79
40) Benzene	8.392	78	8411	0.532	ug/l #	89
41) Methacrylonitrile	7.557	41	1997	0.537	ug/l #	78

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,2-Dichloroethane	8.457	62	3512	0.581	ug/l	83
43) Isopropyl Acetate	8.498	43	6101	0.498	ug/l #	91
44) Trichloroethene	9.163	130	3147	0.887	ug/l	69
45) 1,2-Dichloropropane	9.422	63	2105	0.501	ug/l #	77
46) Dibromomethane	9.516	93	1495	0.520	ug/l #	84
47) Bromodichloromethane	9.698	83	2512	0.438	ug/l #	82
48) Methyl methacrylate	9.504	41	2980	0.552	ug/l	97
49) 1,4-Dioxane	9.510	88	1414	12.419	ug/l	89
51) 4-Methyl-2-Pentanone	10.275	43	18325	2.286	ug/l	98
52) Toluene	10.439	92	4430	0.453	ug/l	93
53) t-1,3-Dichloropropene	10.651	75	3084	0.488	ug/l #	50
54) cis-1,3-Dichloropropene	10.128	75	3198	0.474	ug/l #	58
55) 1,1,2-Trichloroethane	10.845	97	1795	0.445	ug/l #	73
56) Ethyl methacrylate	10.698	69	2962	0.432	ug/l #	77
57) 1,3-Dichloropropane	10.992	76	3020	0.428	ug/l #	88
58) 2-Chloroethyl Vinyl ether	9.975	63	7040	2.208	ug/l	93
59) 2-Hexanone	11.027	43	14362	2.321	ug/l	88
60) Dibromochloromethane	11.180	129	1891	0.463	ug/l	89
61) 1,2-Dibromoethane	11.286	107	1941	0.468	ug/l #	79
64) Tetrachloroethene	10.916	164	1691	0.622	ug/l #	77
65) Chlorobenzene	11.710	112	4854	0.502	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.792	131	1614	0.427	ug/l #	43
67) Ethyl Benzene	11.786	91	8671	0.475	ug/l #	85
68) m/p-Xylenes	11.892	106	6034	0.879	ug/l	87
69) o-Xylene	12.222	106	2941	0.426	ug/l	78
70) Styrene	12.233	104	4532	0.413	ug/l	91
71) Bromoform	12.410	173	1169	0.413	ug/l #	75
73) Isopropylbenzene	12.521	105	7098	0.474	ug/l	98
74) N-amyl acetate	12.339	43	5223	0.600	ug/l #	77
75) 1,1,2,2-Tetrachloroethane	12.769	83	2847	0.506	ug/l #	81
76) 1,2,3-Trichloropropane	12.827	75	2279m	0.560	ug/l	
77) Bromobenzene	12.804	156	1454	0.453	ug/l	75
78) n-propylbenzene	12.869	91	7990	0.466	ug/l	96
79) 2-Chlorotoluene	12.951	91	5062	0.484	ug/l	88
80) 1,3,5-Trimethylbenzene	13.004	105	5227	0.421	ug/l	84
81) trans-1,4-Dichloro-2-b...	12.563	75	1063m	0.582	ug/l	
82) 4-Chlorotoluene	13.045	91	5029	0.499	ug/l	99
83) tert-Butylbenzene	13.263	119	4747	0.425	ug/l	95
84) 1,2,4-Trimethylbenzene	13.310	105	5926	0.482	ug/l	91
85) sec-Butylbenzene	13.445	105	5464	0.359	ug/l	89
86) p-Isopropyltoluene	13.563	119	4559	0.375	ug/l	89
87) 1,3-Dichlorobenzene	13.563	146	2828	0.476	ug/l #	40
88) 1,4-Dichlorobenzene	13.633	146	3141	0.524	ug/l #	60
89) n-Butylbenzene	13.880	91	3723	0.359	ug/l	83
90) Hexachloroethane	14.163	117	1138	0.443	ug/l	94
91) 1,2-Dichlorobenzene	13.927	146	3085	0.494	ug/l	91
92) 1,2-Dibromo-3-Chloropr...	14.545	75	648m	0.423	ug/l	
93) 1,2,4-Trichlorobenzene	15.198	180	1355	0.435	ug/l	78
94) Hexachlorobutadiene	15.292	225	578	0.410	ug/l #	43
95) Naphthalene	15.433	128	5811	0.477	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.633	180	1525	0.474	ug/l	87

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

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