

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102522\
 Data File : VN075003.D
 Acq On : 25 Oct 2022 10:58
 Operator : JC\MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Quant Time: Oct 27 09:53:22 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102522W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 27 09:52:53 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	13666	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	79511	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	72570	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	40706	32.577	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	108.600%
60) 4-Bromofluorobenzene	12.853	95	38425	26.948	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	89.833%
63) Toluene-d8	10.570	98	123273	30.372	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.233%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	3791	5.698	ug/l	99
3) Chloromethane	2.377	50	5423	6.197	ug/l	91
4) Vinyl Chloride	2.524	62	8456	6.390	ug/l	98
5) Bromomethane	2.930	94	7265	6.944	ug/l	100
6) Chloroethane	3.118	64	6691	6.555	ug/l	97
7) Trichlorofluoromethane	3.506	101	8599m	6.058	ug/l	
8) Diethyl Ether	3.983	74	3566	6.090	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.371	101	5064	6.067	ug/l #	54
10) 1,1-Dichloroethene	4.353	96	4872	6.223	ug/l #	74
11) Methyl Iodide	4.594	142	7070	5.788	ug/l	90
12) Methyl Acetate	5.041	43	8342	6.290	ug/l	97
13) Acrolein	4.189	56	4767	29.345	ug/l #	46
14) Acrylonitrile	5.735	53	15581	28.434	ug/l	68
15) Acetone	4.447	58	4227m	27.503	ug/l	
16) Carbon Disulfide	4.724	76	9822	5.698	ug/l #	88
17) Allyl chloride	5.041	41	5647	5.383	ug/l	73
18) Methylene Chloride	5.288	84	5892	6.007	ug/l	89
19) trans-1,2-Dichloroethene	5.794	96	4869m	5.594	ug/l	
20) Diisopropyl ether	6.677	45	14919	5.479	ug/l #	97
21) 1,1-Dichloroethane	6.582	63	9537m	5.639	ug/l	
22) cis-1,2-Dichloroethene	7.494	96	6010	5.464	ug/l #	83
23) tert-Butyl Alcohol	5.541	59	7672	30.245	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	17649	5.511	ug/l	94
25) Chloroform	7.971	83	10150	5.433	ug/l	96
26) Cyclohexane	8.265	56	7402	5.448	ug/l #	91
29) 1,1-Dichloropropene	8.371	75	6963	5.105	ug/l	96
30) 2-Butanone	7.488	43	20717	26.351	ug/l #	85
31) 2,2-Dichloropropane	7.500	77	8436	5.064	ug/l	95
32) 1,1,1-Trichloroethane	8.182	97	8543	4.837	ug/l	98
33) Carbon Tetrachloride	8.371	117	7795	5.012	ug/l	90
34) Benzene	8.606	78	21363	5.124	ug/l #	77
35) Methacrylonitrile	7.782	41	3690	4.897	ug/l	81
36) 1,2-Dichloroethane	8.676	62	8089	5.236	ug/l #	88
37) Trichloroethene	9.359	130	5338	5.152	ug/l	82
38) Methylcyclohexane	9.606	83	8494	5.023	ug/l	98
39) 1,2-Dichloropropane	9.623	63	5376	5.122	ug/l #	88
40) Dibromomethane	9.706	93	4118m	5.171	ug/l	
41) Bromodichloromethane	9.894	83	7657	4.939	ug/l	94
42) Vinyl Acetate	6.618	43	54245	24.495	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	8866	5.706	ug/l #	90
44) Isopropyl Acetate	8.688	43	13286	5.331	ug/l	96
45) 1,4-Dioxane	9.694	88	3337	108.780	ug/l	96
46) Methyl methacrylate	9.682	41	5859	5.240	ug/l	83
47) n-amyl Acetate	12.500	43	8917	4.165	ug/l	92
48) t-1,3-Dichloropropene	10.841	75	7780	4.593	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	8539	4.797	ug/l #	87
50) 1,1,2-Trichloroethane	11.018	97	5747	4.926	ug/l	97
51) Ethyl methacrylate	10.870	69	8273	4.551	ug/l	86
52) 1,3-Dichloropropane	11.170	76	9926	5.087	ug/l	99
53) Dibromochloromethane	11.359	129	5471	4.336	ug/l	97
54) 1,2-Dibromoethane	11.476	107	5710	4.731	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	17805	23.975	ug/l	99
56) Bromoform	12.582	173	3528	3.808	ug/l #	96
58) 4-Methyl-2-Pentanone	10.453	43	42079	26.882	ug/l	95
59) 2-Hexanone	11.200	43	31325	26.087	ug/l	98
61) Tetrachloroethene	11.106	164	4431	5.490	ug/l #	89
62) Toluene	10.635	91	23761	5.057	ug/l	96
64) Chlorobenzene	11.894	112	14562	5.001	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.964	131	5181	4.658	ug/l	89
66) Ethyl Benzene	11.970	91	25357	4.789	ug/l	100
67) m/p-Xylenes	12.076	106	19547	9.204	ug/l	98
68) o-Xylene	12.400	106	9888	4.632	ug/l	94
69) Styrene	12.417	104	15604	4.470	ug/l	96
70) Isopropylbenzene	12.700	105	25096	4.512	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	9059	5.000	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	8122m	5.357	ug/l	
73) Bromobenzene	12.988	156	5763	4.655	ug/l	92
74) n-propylbenzene	13.041	91	27533	4.421	ug/l	97
75) 2-Chlorotoluene	13.129	91	17595	4.670	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	20507	4.349	ug/l	94
77) t-1,4-Dichloro-2-butene	12.741	75	2134	3.718	ug/l	82
78) 4-Chlorotoluene	13.223	91	16239	4.342	ug/l	98
79) tert-butylbenzene	13.441	119	18540	4.407	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	21241	4.438	ug/l #	81
81) sec-Butylbenzene	13.617	105	25356	5.075	ug/l	97
82) p-Isopropyltoluene	13.735	119	20354	4.080	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	10438	4.263	ug/l	99
84) 1,4-Dichlorobenzene	13.811	146	10174	4.307	ug/l	97
85) n-Butylbenzene	14.058	91	15698	3.923	ug/l	99
86) Hexachloroethane	14.341	117	4061	4.392	ug/l	94
87) 1,2-Dichlorobenzene	14.111	146	10757	4.442	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.723	75	1564	4.107	ug/l	96
89) 1,2,4-Trichlorobenzene	15.400	180	4175	3.903	ug/l	93
90) Hexachlorobutadiene	15.505	225	2245	4.564	ug/l	97
91) Naphthalene	15.641	128	17593	4.150	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	4572	4.223	ug/l	97

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

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