

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092722\
 Data File : VN074638.D
 Acq On : 27 Sep 2022 19:41
 Operator : JC\MD
 Sample : N3980-07 LOD 4.0
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2022

Quant Time: Sep 28 08:08:24 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 28 07:48:31 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 09/28/2022
 Supervised By :Mahesh Dadoda 09/28/2022

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

Internal Standards						
1) Bromochloromethane	7.492	128	98513	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.828	114	584389	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.616	117	509258	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.292	65	291603	31.393	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.633%			
60) 4-Bromofluorobenzene	12.610	95	258712	26.153	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 87.167%			
63) Toluene-d8	10.316	98	909960	31.678	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 105.600%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.999	85	28610	4.942	ug/l	94
3) Chloromethane	2.216	50	51156	6.017	ug/l	90
4) Vinyl Chloride	2.351	62	65221m	5.992	ug/l	
5) Bromomethane	2.740	94	48733	6.946	ug/l	92
6) Chloroethane	2.887	64	39127	5.086	ug/l #	89
7) Trichlorofluoromethane	3.234	101	50320	4.978	ug/l	86
8) Diethyl Ether	3.687	74	25771	4.833	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.051	101	30775m	4.748	ug/l	
10) 1,1-Dichloroethene	4.022	96	30254m	4.527	ug/l	
11) Methyl Iodide	4.257	142	34398	4.019	ug/l	94
12) Methyl Acetate	4.669	43	75761	5.295	ug/l	97
13) Acrolein	3.887	56	35411m	30.408	ug/l	
14) Acrylonitrile	5.369	53	140785m	24.276	ug/l	
15) Acetone	4.134	58	37862	24.857	ug/l	76
16) Carbon Disulfide	4.357	76	90192	4.802	ug/l	96
17) Allyl chloride	4.645	41	71319m	5.233	ug/l	
18) Methylene Chloride	4.910	84	46182m	5.421	ug/l	
19) trans-1,2-Dichloroethene	5.410	96	33452m	4.429	ug/l	
20) Diisopropyl ether	6.310	45	136124	4.567	ug/l #	96
21) 1,1-Dichloroethane	6.198	63	70121	4.658	ug/l	100
22) cis-1,2-Dichloroethene	7.145	96	47086	5.167	ug/l #	82
23) tert-Butyl Alcohol	5.181	59	70538m	29.539	ug/l	
24) Methyl tert-Butyl Ether	5.410	73	123576	4.463	ug/l #	83
25) Chloroform	7.657	83	63929	4.284	ug/l #	81
26) Cyclohexane	7.939	56	66688	4.926	ug/l #	95
29) 1,1-Dichloropropene	8.069	75	47502	4.352	ug/l	95
30) 2-Butanone	7.163	43	200810	24.114	ug/l #	77
31) 2,2-Dichloropropane	7.151	77	57956m	4.448	ug/l	
32) 1,1,1-Trichloroethane	7.845	97	58261	4.518	ug/l #	73
33) Carbon Tetrachloride	8.045	117	45214	4.192	ug/l	90
34) Benzene	8.310	78	156758	4.338	ug/l #	66
35) Methacrylonitrile	7.469	41	39536m	4.990	ug/l	
36) 1,2-Dichloroethane	8.386	62	51818	4.392	ug/l	95
37) Trichloroethene	9.075	130	34436	4.488	ug/l	95
38) Methylcyclohexane	9.322	83	61662	4.365	ug/l	95
39) 1,2-Dichloropropane	9.357	63	42706	4.464	ug/l	91
40) Dibromomethane	9.439	93	26171	4.240	ug/l	98
41) Bromodichloromethane	9.627	83	55145	4.494	ug/l	93
42) Vinyl Acetate	6.245	43	612004m	22.608	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.251	43	76642	4.752	ug/l	#	85
44) Isopropyl Acetate	8.422	43	121886m	4.654	ug/l		
45) 1,4-Dioxane	9.427	88	23538m	105.312	ug/l		
46) Methyl methacrylate	9.427	41	53767	4.929	ug/l		85
47) n-amyl Acetate	12.268	43	98024	4.089	ug/l		99
48) t-1,3-Dichloropropene	10.592	75	59194	3.974	ug/l		95
49) cis-1,3-Dichloropropene	10.063	75	60585	3.908	ug/l	#	76
50) 1,1,2-Trichloroethane	10.780	97	38581	4.299	ug/l		94
51) Ethyl methacrylate	10.639	69	69261	4.116	ug/l		93
52) 1,3-Dichloropropane	10.922	76	69264	4.354	ug/l		98
53) Dibromochloromethane	11.116	129	35669	3.761	ug/l		96
54) 1,2-Dibromoethane	11.227	107	37940	4.086	ug/l		93
55) 2-Chloroethyl vinyl ether	9.916	63	129877	19.887	ug/l		96
56) Bromoform	12.339	173	24514	3.307	ug/l	#	96
58) 4-Methyl-2-Pentanone	10.204	43	389135	24.622	ug/l		97
59) 2-Hexanone	10.963	43	298581	24.393	ug/l		96
61) Tetrachloroethene	10.851	164	25673	4.519	ug/l		93
62) Toluene	10.374	91	164227	4.404	ug/l		99
64) Chlorobenzene	11.645	112	89028	4.166	ug/l		97
65) 1,1,1,2-Tetrachloroethane	11.716	131	30935	3.853	ug/l		85
66) Ethyl Benzene	11.721	91	168096	4.245	ug/l		99
67) m/p-Xylenes	11.827	106	119842	7.538	ug/l		93
68) o-Xylene	12.163	106	63064	3.896	ug/l		97
69) Styrene	12.168	104	95770	3.517	ug/l		97
70) Isopropylbenzene	12.457	105	154047	3.730	ug/l		97
71) 1,1,2,2-Tetrachloroethane	12.704	83	64633	4.409	ug/l		91
72) 1,2,3-Trichloropropane	12.763	75	54099	4.875	ug/l	#	1
73) Bromobenzene	12.739	156	32614	3.930	ug/l		97
74) n-propylbenzene	12.798	91	169301	3.638	ug/l		99
75) 2-Chlorotoluene	12.886	91	108351	3.838	ug/l		98
76) 1,3,5-Trimethylbenzene	12.939	105	127209	3.653	ug/l		94
77) t-1,4-Dichloro-2-butene	12.498	75	20820	3.622	ug/l		98
78) 4-Chlorotoluene	12.980	91	93882	3.319	ug/l		97
79) tert-butylbenzene	13.204	119	107499	3.528	ug/l		99
80) 1,2,4-Trimethylbenzene	13.245	105	116272	3.381	ug/l		99
81) sec-Butylbenzene	13.380	105	140557	3.259	ug/l		99
82) p-Isopropyltoluene	13.492	119	111890	3.154	ug/l		99
83) 1,3-Dichlorobenzene	13.492	146	54722	3.209	ug/l		99
84) 1,4-Dichlorobenzene	13.574	146	52803	3.113	ug/l		95
85) n-Butylbenzene	13.821	91	92247	3.047	ug/l		99
86) Hexachloroethane	14.086	117	28715	4.202	ug/l		94
87) 1,2-Dichlorobenzene	13.862	146	53398	3.061	ug/l		91
88) 1,2-Dibromo-3-Chloropr...	14.480	75	11256	3.666	ug/l	#	79
89) 1,2,4-Trichlorobenzene	15.127	180	24024	3.302	ug/l		99
90) Hexachlorobutadiene	15.233	225	12415	3.873	ug/l		91
91) Naphthalene	15.362	128	102676	3.364	ug/l		99
92) 1,2,3-Trichlorobenzene	15.562	180	25308	3.469	ug/l		89

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

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