

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032423\
 Data File : VN077164.D
 Acq On : 23 Mar 2023 22:10
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Mar 24 04:56:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 24 04:51:59 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Krupa
 Patel

03/24/2023
 Supervised By :Semsettin
 Yesilyurt

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

Internal Standards						
1) Bromochloromethane	7.819	128	38819	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	257180	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	284553	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	123496	33.822	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	112.733%#
60) 4-Bromofluorobenzene	12.854	95	143569	26.965	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	89.900%
63) Toluene-d8	10.572	98	316326	31.403	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	104.667%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.137	85	13161	2.894	ug/l	90
3) Chloromethane	2.378	50	24490	5.215	ug/l	100
4) Vinyl Chloride	2.525	62	31590	7.068	ug/l	98
5) Bromomethane	2.954	94	20987	7.092	ug/l	94
6) Chloroethane	3.125	64	20793m	7.087	ug/l	
7) Trichlorofluoromethane	3.507	101	43639	5.490	ug/l	99
8) Diethyl Ether	3.972	74	14948m	5.118	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.378	101	24527	5.547	ug/l	92
10) 1,1-Dichloroethene	4.354	96	20617	4.825	ug/l	80
11) Methyl Iodide	4.595	142	17717m	3.572	ug/l	
12) Methyl Acetate	5.042	43	43756	5.890	ug/l	100
13) Acrolein	4.184	56	28615	26.426	ug/l	97
14) Acrylonitrile	5.731	53	64793	26.906	ug/l	76
15) Acetone	4.442	58	18862m	29.103	ug/l	
16) Carbon Disulfide	4.725	76	60354	5.104	ug/l #	94
17) Allyl chloride	5.037	41	33750	5.141	ug/l	95
18) Methylene Chloride	5.290	84	27350	5.393	ug/l	90
19) trans-1,2-Dichloroethene	5.795	96	22500	4.998	ug/l	87
20) Diisopropyl ether	6.678	45	78473	5.270	ug/l #	96
21) 1,1-Dichloroethane	6.584	63	49121	5.602	ug/l #	96
22) cis-1,2-Dichloroethene	7.501	96	26118	5.034	ug/l #	85
23) tert-Butyl Alcohol	5.531	59	21998m	30.650	ug/l	
24) Methyl tert-Butyl Ether	5.807	73	68558m	4.874	ug/l	
25) Chloroform	7.978	83	46211	5.144	ug/l	100
26) Cyclohexane	8.266	56	36102	4.595	ug/l #	97
29) 1,1-Dichloropropene	8.372	75	30904	4.970	ug/l	99
30) 2-Butanone	7.489	43	88304	29.466	ug/l	98
31) 2,2-Dichloropropane	7.495	77	32103	5.294	ug/l #	66
32) 1,1,1-Trichloroethane	8.172	97	39853	5.470	ug/l #	88
33) Carbon Tetrachloride	8.366	117	31497	4.918	ug/l	98
34) Benzene	8.613	78	103845	5.441	ug/l #	91
35) Methacrylonitrile	7.778	41	19151m	5.707	ug/l	
36) 1,2-Dichloroethane	8.678	62	37456	5.721	ug/l #	90
37) Trichloroethene	9.354	130	22206	4.811	ug/l	99
38) Methylcyclohexane	9.607	83	34414	4.531	ug/l	96
39) 1,2-Dichloropropane	9.625	63	27472	5.570	ug/l	92
40) Dibromomethane	9.707	93	17557	5.576	ug/l	93
41) Bromodichloromethane	9.889	83	34359	5.341	ug/l #	97
42) Vinyl Acetate	6.613	43	258697	28.223	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.572	43	36265	6.034	ug/l	#	84
44) Isopropyl Acetate	8.695	43	55795	5.741	ug/l		97
45) 1,4-Dioxane	9.701	88	8242	100.211	ug/l		91
46) Methyl methacrylate	9.683	41	21500	4.570	ug/l		93
47) n-amyl Acetate	12.495	43	40899	5.201	ug/l		93
48) t-1,3-Dichloropropene	10.842	75	30961	4.824	ug/l		97
49) cis-1,3-Dichloropropene	10.319	75	35648	4.917	ug/l	#	93
50) 1,1,2-Trichloroethane	11.019	97	23598	5.131	ug/l		99
51) Ethyl methacrylate	10.877	69	28731	4.271	ug/l		89
52) 1,3-Dichloropropane	11.166	76	42838	5.410	ug/l		95
53) Dibromochloromethane	11.366	129	22656	4.863	ug/l		99
54) 1,2-Dibromoethane	11.471	107	22019	4.976	ug/l		92
55) 2-Chloroethyl vinyl ether	10.166	63	64398	26.255	ug/l		96
56) Bromoform	12.583	173	14973	4.822	ug/l		97
58) 4-Methyl-2-Pentanone	10.448	43	179739	29.067	ug/l		99
59) 2-Hexanone	11.201	43	127822	28.952	ug/l		95
61) Tetrachloroethene	11.107	164	18788	4.285	ug/l	#	91
62) Toluene	10.636	91	104590	5.221	ug/l		98
64) Chlorobenzene	11.895	112	60756	5.166	ug/l		99
65) 1,1,1,2-Tetrachloroethane	11.966	131	21843	4.931	ug/l		93
66) Ethyl Benzene	11.966	91	96156	4.447	ug/l		98
67) m/p-Xylenes	12.071	106	74786	9.135	ug/l		99
68) o-Xylene	12.407	106	37173	4.648	ug/l		96
69) Styrene	12.413	104	54899	4.256	ug/l		98
70) Isopropylbenzene	12.701	105	90707	4.366	ug/l		97
71) 1,1,2,2-Tetrachloroethane	12.942	83	35184	5.448	ug/l		93
72) 1,2,3-Trichloropropane	12.995	75	31452m	5.295	ug/l		
73) Bromobenzene	12.983	156	21912	4.653	ug/l		89
74) n-propylbenzene	13.042	91	100961	4.143	ug/l		99
75) 2-Chlorotoluene	13.130	91	67162	4.454	ug/l		99
76) 1,3,5-Trimethylbenzene	13.177	105	70919	3.958	ug/l		98
77) t-1,4-Dichloro-2-butene	12.742	75	7630	4.306	ug/l		64
78) 4-Chlorotoluene	13.224	91	60256	4.153	ug/l		96
79) tert-butylbenzene	13.442	119	62335	4.153	ug/l		91
80) 1,2,4-Trimethylbenzene	13.489	105	69049	3.937	ug/l		97
81) sec-Butylbenzene	13.618	105	86783	4.065	ug/l		100
82) p-Isopropyltoluene	13.736	119	62758	3.652	ug/l		96
83) 1,3-Dichlorobenzene	13.742	146	35924	4.135	ug/l		92
84) 1,4-Dichlorobenzene	13.812	146	36176	4.307	ug/l		96
85) n-Butylbenzene	14.060	91	50587	3.494	ug/l		95
86) Hexachloroethane	14.336	117	15719	5.025	ug/l		96
87) 1,2-Dichlorobenzene	14.107	146	38436	4.449	ug/l		99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	6012	4.825	ug/l		91
89) 1,2,4-Trichlorobenzene	15.401	180	11984m	2.719	ug/l		
90) Hexachlorobutadiene	15.501	225	10693	4.501	ug/l		93
91) Naphthalene	15.642	128	30827	2.203	ug/l	#	95
92) 1,2,3-Trichlorobenzene	15.848	180	12072	2.731	ug/l		98

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

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