

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032423\
 Data File : VN077169.D
 Acq On : 24 Mar 2023 00:11
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 03/24/2023
 Supervised By :Semsettin Yesilyurt 03/27/2023

Quant Time: Mar 24 04:58:14 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

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

Internal Standards						
1) Bromochloromethane	7.825	128	45850	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	329224	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	375545	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	137837	31.961	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	106.533%		
60) 4-Bromofluorobenzene	12.854	95	210645	29.978	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.933%		
63) Toluene-d8	10.572	98	385276	28.980	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.600%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	512430	95.416	ug/l	98
3) Chloromethane	2.372	50	610766	110.121	ug/l	100
4) Vinyl Chloride	2.525	62	1046159	198.170	ug/l	94
5) Bromomethane	2.919	94	822095	235.212	ug/l	91
6) Chloroethane	3.102	64	968764	279.562	ug/l	97
7) Trichlorofluoromethane	3.496	101	1441029	153.498	ug/l	100
8) Diethyl Ether	3.972	74	529631	153.517	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.378	101	751103	143.818	ug/l	99
10) 1,1-Dichloroethene	4.343	96	732353	145.104	ug/l	97
11) Methyl Iodide	4.596	142	920356	157.099	ug/l	96
12) Methyl Acetate	5.031	43	1547495	176.359	ug/l	97
13) Acrolein	4.190	56	1057079	826.500	ug/l	97
14) Acrylonitrile	5.737	53	2409498	847.136	ug/l	99
15) Acetone	4.437	58	593249	774.991	ug/l	93
16) Carbon Disulfide	4.725	76	2085130	149.286	ug/l	99
17) Allyl chloride	5.031	41	1449581	186.960	ug/l	95
18) Methylene Chloride	5.290	84	856665	143.025	ug/l	94
19) trans-1,2-Dichloroethene	5.790	96	787035	148.005	ug/l	96
20) Diisopropyl ether	6.684	45	3000596	170.599	ug/l	94
21) 1,1-Dichloroethane	6.572	63	1624570	156.860	ug/l	98
22) cis-1,2-Dichloroethene	7.490	96	928136	151.449	ug/l	99
23) tert-Butyl Alcohol	5.543	59	819052	966.202	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	2733673	164.533	ug/l	98
25) Chloroform	7.972	83	1577830	148.694	ug/l	97
26) Cyclohexane	8.260	56	1430215	154.135	ug/l #	94
29) 1,1-Dichloropropene	8.378	75	1199355	150.665	ug/l	98
30) 2-Butanone	7.490	43	3385202	882.402	ug/l	99
31) 2,2-Dichloropropane	7.495	77	1105655	142.439	ug/l #	63
32) 1,1,1-Trichloroethane	8.172	97	1423663	152.638	ug/l	98
33) Carbon Tetrachloride	8.372	117	1229366	149.950	ug/l	94
34) Benzene	8.613	78	3536521	144.756	ug/l	98
35) Methacrylonitrile	7.790	41	764351	177.925	ug/l	97
36) 1,2-Dichloroethane	8.678	62	1304848	155.700	ug/l	98
37) Trichloroethene	9.354	130	837465	141.747	ug/l	94
38) Methylcyclohexane	9.607	83	1492191	153.488	ug/l	98
39) 1,2-Dichloropropane	9.625	63	943919	149.498	ug/l	95
40) Dibromomethane	9.713	93	603096	149.637	ug/l	94
41) Bromodichloromethane	9.889	83	1273258	154.600	ug/l	99
42) Vinyl Acetate	6.613	43	10738612	915.171	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	1340777	174.268	ug/l	98
44) Isopropyl Acetate	8.695	43	2267579	182.263	ug/l	100
45) 1,4-Dioxane	9.701	88	343417	3261.739	ug/l	94
46) Methyl methacrylate	9.684	41	1084882	180.144	ug/l	98
47) n-amyl Acetate	12.495	43	2084584	207.094	ug/l	100
48) t-1,3-Dichloropropene	10.836	75	1401550	170.574	ug/l	98
49) cis-1,3-Dichloropropene	10.313	75	1482248	159.704	ug/l	97
50) 1,1,2-Trichloroethane	11.019	97	862559	146.503	ug/l	98
51) Ethyl methacrylate	10.878	69	1526283	177.244	ug/l	96
52) 1,3-Dichloropropane	11.166	76	1523706	150.322	ug/l	99
53) Dibromochloromethane	11.366	129	945960	158.622	ug/l	99
54) 1,2-Dibromoethane	11.472	107	881231	155.580	ug/l	100
55) 2-Chloroethyl vinyl ether	10.166	63	3068647	977.315	ug/l	99
56) Bromoform	12.583	173	692772	174.272	ug/l	97
58) 4-Methyl-2-Pentanone	10.448	43	7257661	889.309	ug/l	97
59) 2-Hexanone	11.201	43	5261668	903.011	ug/l	97
61) Tetrachloroethene	11.107	164	688618	118.992	ug/l	92
62) Toluene	10.636	91	3899105	147.473	ug/l	100
64) Chlorobenzene	11.895	112	2358484	151.939	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.966	131	864191	147.829	ug/l	96
66) Ethyl Benzene	11.966	91	4453335	156.059	ug/l	99
67) m/p-Xylenes	12.072	106	3418624	316.416	ug/l	95
68) o-Xylene	12.401	106	1680784	159.242	ug/l	98
69) Styrene	12.413	104	2863153	168.184	ug/l	98
70) Isopropylbenzene	12.701	105	4401919	160.542	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.942	83	1274036	149.471	ug/l	100
72) 1,2,3-Trichloropropane	12.995	75	1021997m	130.368	ug/l	
73) Bromobenzene	12.983	156	948018	152.523	ug/l	95
74) n-propylbenzene	13.042	91	5159096	160.428	ug/l	99
75) 2-Chlorotoluene	13.130	91	2992237	150.362	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	3651191	154.384	ug/l	95
77) t-1,4-Dichloro-2-butene	12.742	75	435476	186.195	ug/l	96
78) 4-Chlorotoluene	13.224	91	2986832	155.983	ug/l	96
79) tert-butylbenzene	13.442	119	3165562	159.806	ug/l	96
80) 1,2,4-Trimethylbenzene	13.483	105	3694337	159.619	ug/l	96
81) sec-Butylbenzene	13.619	105	4627511	164.248	ug/l	99
82) p-Isopropyltoluene	13.730	119	3849863	169.769	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	1848784	161.259	ug/l	99
84) 1,4-Dichlorobenzene	13.813	146	1812376	163.493	ug/l	98
85) n-Butylbenzene	14.060	91	3397802	177.811	ug/l	99
86) Hexachloroethane	14.336	117	677125	164.027	ug/l	95
87) 1,2-Dichlorobenzene	14.107	146	1844017	161.745	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.724	75	271756	165.245	ug/l	96
89) 1,2,4-Trichlorobenzene	15.395	180	929616	159.809	ug/l	98
90) Hexachlorobutadiene	15.507	225	432056	137.793	ug/l	97
91) Naphthalene	15.642	128	3173028	171.777	ug/l	99
92) 1,2,3-Trichlorobenzene	15.842	180	898150	153.959	ug/l	99

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

