

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071423\
 Data File : VX036528.D
 Acq On : 13 Jul 2023 15:43
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/14/2023
 Supervised By : Semsettin Yesilyurt 07/14/2023

Quant Time: Jul 14 02:27:14 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 02:24:12 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	25548	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	158018	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	142082	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	65855	31.058	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.533%			
60) 4-Bromofluorobenzene	11.079	95	70879	30.754	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.500%			
63) Toluene-d8	8.653	98	193974	29.668	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.900%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	278211	194.904	ug/l	100
3) Chloromethane	1.300	50	337549	172.848	ug/l	94
4) Vinyl Chloride	1.373	62	360794	179.163	ug/l	99
5) Bromomethane	1.599	94	330081	160.054	ug/l	96
6) Chloroethane	1.672	64	239053	174.403	ug/l	94
7) Trichlorofluoromethane	1.879	101	558914	171.076	ug/l	98
8) Diethyl Ether	2.136	74	236534	174.248	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.325	101	278793	188.479	ug/l	99
10) 1,1-Dichloroethene	2.318	96	270646	181.033	ug/l	99
11) Methyl Iodide	2.453	142	349645	205.235	ug/l	98
12) Methyl Acetate	2.702	43	613151	174.479	ug/l	97
13) Acrolein	2.239	56	286715	994.541	ug/l	96
14) Acrylonitrile	3.068	53	867316	880.487	ug/l	97
15) Acetone	2.385	58	239228	857.818	ug/l	99
16) Carbon Disulfide	2.507	76	715795	197.341	ug/l	98
17) Allyl chloride	2.660	41	464260	175.051	ug/l	97
18) Methylene Chloride	2.788	84	313711	174.264	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	294428	180.174	ug/l	98
20) Diisopropyl ether	3.763	45	937610	173.460	ug/l	99
21) 1,1-Dichloroethane	3.611	63	553529	175.646	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	346414	176.136	ug/l	97
23) tert-Butyl Alcohol	2.977	59	416544m	914.547	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	947647	174.302	ug/l	100
25) Chloroform	5.098	83	567827	174.283	ug/l	99
26) Cyclohexane	5.470	56	453831	187.712	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	420427	176.437	ug/l	99
30) 2-Butanone	4.562	43	1227121	817.886	ug/l	99
31) 2,2-Dichloropropane	4.477	77	466417	178.489	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	494475	174.636	ug/l	99
33) Carbon Tetrachloride	5.678	117	435054	180.105	ug/l	99
34) Benzene	6.043	78	1206212	164.223	ug/l	98
35) Methacrylonitrile	4.922	41	257111	165.171	ug/l	96
36) 1,2-Dichloroethane	6.086	62	455003	161.443	ug/l	99
37) Trichloroethene	7.129	130	331719	171.599	ug/l	95
38) Methylcyclohexane	7.385	83	514616	185.641	ug/l	97
39) 1,2-Dichloropropane	7.433	63	328857	165.173	ug/l	97
40) Dibromomethane	7.580	93	235513	163.311	ug/l	98
41) Bromodichloromethane	7.824	83	453244	173.172	ug/l	99
42) Vinyl Acetate	3.727	43	3757833	829.209	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	473266	162.050	ug/l	98
44) Isopropyl Acetate	6.342	43	781063	167.712	ug/l	98
45) 1,4-Dioxane	7.671	88	180934	3428.035	ug/l #	1
46) Methyl methacrylate	7.696	41	376558	169.163	ug/l	94
47) n-amyl Acetate	10.847	43	699524	177.075	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	505897	176.231	ug/l	97
49) cis-1,3-Dichloropropene	8.372	75	537798	173.429	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	316513	161.678	ug/l	99
51) Ethyl methacrylate	9.116	69	524920	170.789	ug/l	97
52) 1,3-Dichloropropane	9.311	76	535594	162.115	ug/l	98
53) Dibromochloromethane	9.524	129	345209	174.701	ug/l	99
54) 1,2-Dibromoethane	9.610	107	342165	166.379	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	1379471	834.542	ug/l	100
56) Bromoform	10.799	173	256854	186.837	ug/l	99
58) 4-Methyl-2-Pentanone	8.579	43	2414445	821.783	ug/l	98
59) 2-Hexanone	9.433	43	1879494	840.873	ug/l	99
61) Tetrachloroethene	9.274	164	280591	164.882	ug/l	97
62) Toluene	8.720	91	1319488	165.517	ug/l	99
64) Chlorobenzene	10.079	112	826097	166.450	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	307008	171.282	ug/l	99
66) Ethyl Benzene	10.195	91	1467430	169.372	ug/l	96
67) m/p-Xylenes	10.305	106	1151475	340.912	ug/l	99
68) o-Xylene	10.646	106	569907	170.011	ug/l	99
69) Styrene	10.658	104	945312	173.929	ug/l	99
70) Isopropylbenzene	10.963	105	1441704	172.677	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	517110	169.693	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	469922m	167.183	ug/l	
73) Bromobenzene	11.201	156	352556	170.826	ug/l	99
74) n-propylbenzene	11.305	91	1737506	176.813	ug/l	100
75) 2-Chlorotoluene	11.366	91	1015946	170.011	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	1256854	175.187	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	180995	195.190	ug/l	91
78) 4-Chlorotoluene	11.457	91	1199925	176.356	ug/l	99
79) tert-butylbenzene	11.719	119	1231210	180.807	ug/l	96
80) 1,2,4-Trimethylbenzene	11.756	105	1234346	173.636	ug/l	100
81) sec-Butylbenzene	11.890	105	1554186	181.330	ug/l	99
82) p-Isopropyltoluene	12.012	119	1291835	181.159	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	668229	174.067	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	670853	175.372	ug/l	100
85) n-Butylbenzene	12.335	91	1253616	193.126	ug/l	99
86) Hexachloroethane	12.542	117	236900	200.656	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	680102	176.624	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	127460	186.018	ug/l	99
89) 1,2,4-Trichlorobenzene	13.591	180	445349	183.408	ug/l	99
90) Hexachlorobutadiene	13.725	225	172246	195.296	ug/l	96
91) Naphthalene	13.774	128	1529167	179.476	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	436126	177.941	ug/l	99

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

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