

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030322\
 Data File : VX027277.D
 Acq On : 03 Mar 2022 17:53
 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 03/04/2022
 Supervised By : Mahesh Dadoda 03/04/2022

Quant Time: Mar 04 00:49:28 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 04 00:46:35 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	11203	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	62136	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	57664	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	24194	30.119	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.400%			
60) 4-Bromofluorobenzene	11.085	95	28455	30.500	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.667%			
63) Toluene-d8	8.653	98	74408	28.576	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 95.267%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	108325	165.130	ug/l	99
3) Chloromethane	1.294	50	86107	143.207	ug/l	99
4) Vinyl Chloride	1.374	62	84156	140.730	ug/l	100
5) Bromomethane	1.599	94	41403	144.196	ug/l	97
6) Chloroethane	1.672	64	49151	139.437	ug/l	99
7) Trichlorofluoromethane	1.880	101	145779	154.081	ug/l	97
8) Diethyl Ether	2.136	74	45933	138.539	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.325	101	99697	151.020	ug/l	99
10) 1,1-Dichloroethene	2.319	96	97866	152.022	ug/l	99
11) Methyl Iodide	2.453	142	135707	165.052	ug/l	100
12) Methyl Acetate	2.709	43	127279	137.273	ug/l	95
13) Acrolein	2.239	56	106687	688.502	ug/l	99
14) Acrylonitrile	3.068	53	280776	689.105	ug/l	100
15) Acetone	2.386	58	76284	685.260	ug/l	98
16) Carbon Disulfide	2.507	76	265004	156.030	ug/l	99
17) Allyl chloride	2.666	41	165446	144.298	ug/l	98
18) Methylene Chloride	2.788	84	105399	144.811	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	103970	147.803	ug/l	97
20) Diisopropyl ether	3.769	45	306508	136.758	ug/l #	84
21) 1,1-Dichloroethane	3.611	63	182511	144.510	ug/l	100
22) cis-1,2-Dichloroethene	4.495	96	120472	148.936	ug/l	98
23) tert-Butyl Alcohol	2.983	59	118393	742.481	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	330708	147.319	ug/l	99
25) Chloroform	5.098	83	191682	147.044	ug/l	98
26) Cyclohexane	5.476	56	162656	140.140	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	144626	148.979	ug/l	99
30) 2-Butanone	4.562	43	392192	681.421	ug/l	100
31) 2,2-Dichloropropane	4.483	77	152858	173.475	ug/l	100
32) 1,1,1-Trichloroethane	5.391	97	178342	153.949	ug/l	99
33) Carbon Tetrachloride	5.684	117	164225	160.515	ug/l	99
34) Benzene	6.043	78	412957	144.612	ug/l	99
35) Methacrylonitrile	4.928	41	86056	143.493	ug/l	95
36) 1,2-Dichloroethane	6.092	62	152863	148.468	ug/l	99
37) Trichloroethene	7.129	130	125865	149.970	ug/l	96
38) Methylcyclohexane	7.385	83	178846	149.536	ug/l	100
39) 1,2-Dichloropropane	7.433	63	105595	147.857	ug/l	100
40) Dibromomethane	7.586	93	77442	150.246	ug/l	99
41) Bromodichloromethane	7.824	83	152032	155.285	ug/l	97
42) Vinyl Acetate	3.727	43	1377094	705.037	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	152892	140.153	ug/l	100
44) Isopropyl Acetate	6.348	43	245729	144.653	ug/l	99
45) 1,4-Dioxane	7.665	88	53080	3015.134	ug/l	99
46) Methyl methacrylate	7.696	41	122593	146.865	ug/l	97
47) n-amyl Acetate	10.847	43	211525	156.276	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	169581	173.000	ug/l	97
49) cis-1,3-Dichloropropene	8.372	75	179457	162.278	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	108613	153.625	ug/l	99
51) Ethyl methacrylate	9.122	69	185015	164.792	ug/l	89
52) 1,3-Dichloropropane	9.311	76	181305	149.735	ug/l	100
53) Dibromochloromethane	9.525	129	127447	170.579	ug/l	98
54) 1,2-Dibromoethane	9.616	107	122579	160.957	ug/l	97
55) 2-Chloroethyl vinyl ether	8.250	63	421002	746.688	ug/l	99
56) Bromoform	10.805	173	97360	186.529	ug/l	97
58) 4-Methyl-2-Pentanone	8.580	43	755901	658.530	ug/l	98
59) 2-Hexanone	9.433	43	614388	703.907	ug/l	100
61) Tetrachloroethene	9.275	164	119778	132.217	ug/l	97
62) Toluene	8.720	91	455374	141.588	ug/l	99
64) Chlorobenzene	10.079	112	295666	147.086	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	116124	155.391	ug/l	99
66) Ethyl Benzene	10.195	91	528187	148.400	ug/l	99
67) m/p-Xylenes	10.305	106	406733	295.069	ug/l	99
68) o-Xylene	10.646	106	199092	147.180	ug/l	97
69) Styrene	10.658	104	341823	152.209	ug/l	99
70) Isopropylbenzene	10.963	105	528273	150.184	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	156124	151.275	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	146036m	142.064	ug/l	
73) Bromobenzene	11.201	156	134259	155.267	ug/l	98
74) n-propylbenzene	11.305	91	617235	153.619	ug/l	100
75) 2-Chlorotoluene	11.366	91	370229	149.590	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	451004	152.844	ug/l	100
77) t-1,4-Dichloro-2-butene	11.024	75	53766	180.186	ug/l	81
78) 4-Chlorotoluene	11.457	91	420765	151.729	ug/l	100
79) tert-butylbenzene	11.719	119	445764	156.813	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	450539	153.398	ug/l	99
81) sec-Butylbenzene	11.896	105	559522	155.459	ug/l	98
82) p-Isopropyltoluene	12.012	119	482584	157.867	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	251900	156.756	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	251968	156.805	ug/l	99
85) n-Butylbenzene	12.335	91	406612	161.456	ug/l	100
86) Hexachloroethane	12.542	117	82214	170.605	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	237279	152.238	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	40822	162.723	ug/l	99
89) 1,2,4-Trichlorobenzene	13.591	180	163778	165.367	ug/l	99
90) Hexachlorobutadiene	13.725	225	66780	160.677	ug/l	99
91) Naphthalene	13.780	128	557752	161.826	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	164067	164.100	ug/l	100

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

