

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030322\
 Data File : VX027275.D
 Acq On : 03 Mar 2022 17:06
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/04/2022
 Supervised By : Mahesh Dadoda 03/04/2022

Quant Time: Mar 04 00:48:15 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	11554	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	63530	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	58193	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	23916	28.868	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.233%		
60) 4-Bromofluorobenzene	11.079	95	28725	30.510	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.700%		
63) Toluene-d8	8.653	98	75074	28.570	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.233%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.172	85	38163	56.408	ug/l	98
3) Chloromethane	1.294	50	28994	46.756	ug/l	99
4) Vinyl Chloride	1.374	62	28794	46.688	ug/l	99
5) Bromomethane	1.599	94	14565	49.185	ug/l	97
6) Chloroethane	1.685	64	17210	47.340	ug/l	98
7) Trichlorofluoromethane	1.886	101	50035	51.278	ug/l	98
8) Diethyl Ether	2.136	74	15683	45.865	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.331	101	34605	50.827	ug/l	100
10) 1,1-Dichloroethene	2.325	96	33403	50.311	ug/l	97
11) Methyl Iodide	2.453	142	42897	50.588	ug/l	99
12) Methyl Acetate	2.709	43	44494	46.530	ug/l	94
13) Acrolein	2.239	56	36001	225.273	ug/l	99
14) Acrylonitrile	3.068	53	100466	239.082	ug/l	100
15) Acetone	2.386	58	28544	248.622	ug/l	98
16) Carbon Disulfide	2.514	76	88427	50.483	ug/l	100
17) Allyl chloride	2.666	41	56482	47.766	ug/l	99
18) Methylene Chloride	2.794	84	37115	49.444	ug/l	98
19) trans-1,2-Dichloroethene	3.099	96	36423	50.206	ug/l	93
20) Diisopropyl ether	3.763	45	107937	46.696	ug/l	98
21) 1,1-Dichloroethane	3.617	63	63275	48.578	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	41631	49.904	ug/l	98
23) tert-Butyl Alcohol	2.965	59	40405	245.695	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	112829	48.735	ug/l	99
25) Chloroform	5.099	83	66833	49.712	ug/l	94
26) Cyclohexane	5.476	56	57850	48.328	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	50065	50.440	ug/l	99
30) 2-Butanone	4.562	43	141219	239.980	ug/l	99
31) 2,2-Dichloropropane	4.483	77	50371	55.910	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	61582	51.993	ug/l	98
33) Carbon Tetrachloride	5.684	117	55499	53.055	ug/l	99
34) Benzene	6.043	78	146107	50.042	ug/l	98
35) Methacrylonitrile	4.922	41	29569	48.223	ug/l	97
36) 1,2-Dichloroethane	6.092	62	53305	50.636	ug/l	98
37) Trichloroethene	7.129	130	43524	50.722	ug/l	99
38) Methylcyclohexane	7.385	83	62097	50.781	ug/l	99
39) 1,2-Dichloropropane	7.433	63	35473	48.580	ug/l	100
40) Dibromomethane	7.586	93	26608	50.490	ug/l	98
41) Bromodichloromethane	7.824	83	52868	52.814	ug/l	99
42) Vinyl Acetate	3.727	43	479487	240.099	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	53355	47.836	ug/l	99
44) Isopropyl Acetate	6.342	43	84191	48.473	ug/l	99
45) 1,4-Dioxane	7.659	88	19468	1081.587	ug/l	97
46) Methyl methacrylate	7.696	41	41658	48.811	ug/l	97
47) n-amyl Acetate	10.841	43	70416	50.882	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	54603	54.482	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	59943	53.016	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	38493	53.251	ug/l	98
51) Ethyl methacrylate	9.116	69	59389	51.737	ug/l	99
52) 1,3-Dichloropropane	9.311	76	63960	51.664	ug/l	98
53) Dibromochloromethane	9.525	129	42064	55.065	ug/l	98
54) 1,2-Dibromoethane	9.610	107	41138	52.833	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	146351	253.872	ug/l	100
56) Bromoform	10.799	173	31149	58.368	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	277978	239.969	ug/l	99
59) 2-Hexanone	9.433	43	210923	239.459	ug/l	95
61) Tetrachloroethene	9.275	164	44013	48.142	ug/l	97
62) Toluene	8.720	91	166132	51.185	ug/l	96
64) Chlorobenzene	10.079	112	103222	50.883	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	39521	52.404	ug/l	97
66) Ethyl Benzene	10.195	91	184501	51.366	ug/l	99
67) m/p-Xylenes	10.305	106	145219	104.393	ug/l	97
68) o-Xylene	10.640	106	71358	52.272	ug/l	99
69) Styrene	10.659	104	118748	52.396	ug/l	99
70) Isopropylbenzene	10.963	105	185609	52.288	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	54987	52.795	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	55290m	53.297	ug/l	
73) Bromobenzene	11.201	156	46287	53.043	ug/l	98
74) n-propylbenzene	11.305	91	210985	52.033	ug/l	100
75) 2-Chlorotoluene	11.366	91	127507	51.051	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	156606	52.591	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	16446	54.614	ug/l	88
78) 4-Chlorotoluene	11.457	91	144819	51.747	ug/l	99
79) tert-butylbenzene	11.713	119	150681	52.525	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	155172	52.352	ug/l	99
81) sec-Butylbenzene	11.890	105	190479	52.442	ug/l	100
82) p-Isopropyltoluene	12.012	119	165360	53.602	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	85141	52.501	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	85917	52.982	ug/l	99
85) n-Butylbenzene	12.335	91	136857	53.849	ug/l	100
86) Hexachloroethane	12.542	117	25582	52.604	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	83778	53.263	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	13362	52.779	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	54038	54.066	ug/l	97
90) Hexachlorobutadiene	13.725	225	22286	53.134	ug/l	99
91) Naphthalene	13.780	128	188207	54.110	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	54163	53.682	ug/l	99

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

