

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011022\
 Data File : VX026394.D
 Acq On : 10 Jan 2022 11:33
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/11/2022
 Supervised By : Mahesh Dadoda 01/11/2022

Quant Time: Jan 10 12:36:33 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 10 12:35:24 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	21158	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	118143	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	99424	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	51008	25.260	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	84.200%#		
60) 4-Bromofluorobenzene	11.079	95	49703	27.399	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	91.333%		
63) Toluene-d8	8.653	98	137635	29.973	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.900%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.172	85	69792	43.076	ug/l	97
3) Chloromethane	1.294	50	58144	68.308	ug/l	97
4) Vinyl Chloride	1.380	62	65496	67.097	ug/l	99
5) Bromomethane	1.617	94	28014	34.956	ug/l	98
6) Chloroethane	1.691	64	38314	69.613	ug/l	96
7) Trichlorofluoromethane	1.892	101	103495	43.931	ug/l	96
8) Diethyl Ether	2.136	74	36585	65.531	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	64335	52.351	ug/l	97
10) 1,1-Dichloroethene	2.325	96	60007	57.586	ug/l	99
11) Methyl Iodide	2.459	142	68007	62.759	ug/l	99
12) Methyl Acetate	2.709	43	124582	56.900	ug/l	99
13) Acrolein	2.239	56	60917	610.860	ug/l	96
14) Acrylonitrile	3.068	53	174139	282.378	ug/l	98
15) Acetone	2.386	58	56038	297.408	ug/l	93
16) Carbon Disulfide	2.520	76	166522	62.605	ug/l	99
17) Allyl chloride	2.672	41	115611	69.551	ug/l	99
18) Methylene Chloride	2.794	84	64867	53.181	ug/l	99
19) trans-1,2-Dichloroethene	3.099	96	63928	55.805	ug/l	95
20) Diisopropyl ether	3.763	45	225735	62.772	ug/l	94
21) 1,1-Dichloroethane	3.617	63	124083	51.997	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	75657	55.658	ug/l	96
23) tert-Butyl Alcohol	2.977	59	61668	164.439	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	222210	50.450	ug/l	99
25) Chloroform	5.098	83	127612	46.119	ug/l	99
26) Cyclohexane	5.476	56	112952	59.332	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	95547	50.295	ug/l	99
30) 2-Butanone	4.556	43	282109	294.426	ug/l	98
31) 2,2-Dichloropropane	4.477	77	101583	42.097	ug/l	94
32) 1,1,1-Trichloroethane	5.385	97	116963	42.799	ug/l	97
33) Carbon Tetrachloride	5.684	117	103534	43.171	ug/l	98
34) Benzene	6.043	78	264908	54.673	ug/l	97
35) Methacrylonitrile	4.922	41	58878	62.309	ug/l	97
36) 1,2-Dichloroethane	6.092	62	106564	45.389	ug/l	100
37) Trichloroethene	7.129	130	77042	56.890	ug/l	98
38) Methylcyclohexane	7.385	83	115102	56.421	ug/l	96
39) 1,2-Dichloropropane	7.433	63	68283	51.641	ug/l	99
40) Dibromomethane	7.586	93	47798	46.400	ug/l	96
41) Bromodichloromethane	7.824	83	100026	45.733	ug/l	99
42) Vinyl Acetate	3.727	43	872894	304.484	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	101849	55.457	ug/l	100
44) Isopropyl Acetate	6.342	43	169212	58.904	ug/l	100
45) 1,4-Dioxane	7.677	88	26215	859.361	ug/l	93
46) Methyl methacrylate	7.696	41	82820	58.972	ug/l	98
47) n-amyl Acetate	10.841	43	127127	54.877	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	100388	42.609	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	111200	47.281	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	64915	46.539	ug/l	98
51) Ethyl methacrylate	9.116	69	105595	46.971	ug/l	98
52) 1,3-Dichloropropane	9.311	76	113085	47.446	ug/l	99
53) Dibromochloromethane	9.524	129	71223	44.725	ug/l	99
54) 1,2-Dibromoethane	9.610	107	69283	44.469	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	268898	268.792	ug/l	98
56) Bromoform	10.799	173	47369	44.803	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	493031	294.161	ug/l	99
59) 2-Hexanone	9.433	43	385632	299.441	ug/l	99
61) Tetrachloroethene	9.275	164	77448	66.478	ug/l	97
62) Toluene	8.720	91	278501	54.761	ug/l	100
64) Chlorobenzene	10.079	112	165970	54.030	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	65314	47.596	ug/l	98
66) Ethyl Benzene	10.195	91	313175	52.079	ug/l	100
67) m/p-Xylenes	10.305	106	233095	112.729	ug/l	97
68) o-Xylene	10.640	106	113300	56.110	ug/l	96
69) Styrene	10.658	104	188421	54.930	ug/l	98
70) Isopropylbenzene	10.963	105	302241	51.517	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	81621	42.146	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	84142m	44.858	ug/l	
73) Bromobenzene	11.201	156	68648	52.365	ug/l	91
74) n-propylbenzene	11.305	91	348340	50.065	ug/l	100
75) 2-Chlorotoluene	11.366	91	207978	47.698	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	251673	49.188	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	25917	41.037	ug/l	98
78) 4-Chlorotoluene	11.457	91	237626	47.749	ug/l	97
79) tert-butylbenzene	11.713	119	233437	48.424	ug/l	96
80) 1,2,4-Trimethylbenzene	11.756	105	248364	49.361	ug/l	99
81) sec-Butylbenzene	11.890	105	307418	51.257	ug/l	100
82) p-Isopropyltoluene	12.012	119	259000	52.065	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	129204	53.001	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	128693	53.010	ug/l	98
85) n-Butylbenzene	12.335	91	226062	49.826	ug/l	98
86) Hexachloroethane	12.542	117	39688	44.751	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	122756	51.145	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	21769	41.096	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	81142	55.808	ug/l	98
90) Hexachlorobutadiene	13.725	225	34003	46.287	ug/l	98
91) Naphthalene	13.774	128	280659	56.483	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	80169	54.058	ug/l	98

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

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