

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110421\
 Data File : VX025058.D
 Acq On : 03 Nov 2021 19:00
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Quant Time: Nov 03 23:35:12 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X110421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 03 23:32:35 2021
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 11/04/2021
 Supervised By : Mahesh Dadoda 11/10/2021

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

Internal Standards						
1) Bromochloromethane	4.910	128	17643	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	96329	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	91186	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	51385	35.936	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 119.800%#			
60) 4-Bromofluorobenzene	11.085	95	47810	31.046	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.500%			
63) Toluene-d8	8.653	98	121671	29.516	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.400%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	73877	65.591	ug/l	98
3) Chloromethane	1.288	50	37273	33.699	ug/l	99
4) Vinyl Chloride	1.374	62	43571	38.758	ug/l	98
5) Bromomethane	1.611	94	32169	46.572	ug/l	93
6) Chloroethane	1.685	64	24564	34.915	ug/l	99
7) Trichlorofluoromethane	1.892	101	104524	53.538	ug/l	90
8) Diethyl Ether	2.136	74	24663	38.052	ug/l	80
9) 1,1,2-Trichlorotrifluo...	2.331	101	54237	50.951	ug/l	97
10) 1,1-Dichloroethene	2.325	96	46217	45.608	ug/l	97
11) Methyl Iodide	2.453	142	55156	41.064	ug/l	88
12) Methyl Acetate	2.709	43	97974	60.530	ug/l	99
13) Acrolein	2.239	56	19713	128.224	ug/l	100
14) Acrylonitrile	3.068	53	138529	211.305	ug/l	92
15) Acetone	2.386	58	43298	223.250	ug/l	97
16) Carbon Disulfide	2.514	76	118301	46.962	ug/l	98
17) Allyl chloride	2.666	41	75190	41.241	ug/l	94
18) Methylene Chloride	2.794	84	52785	44.108	ug/l	91
19) trans-1,2-Dichloroethene	3.093	96	51047	46.812	ug/l	92
20) Diisopropyl ether	3.763	45	160749	43.430	ug/l	88
21) 1,1-Dichloroethane	3.617	63	105671	50.430	ug/l	97
22) cis-1,2-Dichloroethene	4.495	96	59860	47.090	ug/l	92
23) tert-Butyl Alcohol	2.989	59	81033m	256.780	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	197772	53.515	ug/l #	90
25) Chloroform	5.105	83	121006	54.752	ug/l	97
26) Cyclohexane	5.476	56	83337	45.073	ug/l #	96
29) 1,1-Dichloropropene	5.696	75	81629	52.428	ug/l	96
30) 2-Butanone	4.562	43	208927	215.252	ug/l	97
31) 2,2-Dichloropropane	4.483	77	102092	56.822	ug/l #	71
32) 1,1,1-Trichloroethane	5.391	97	117120	60.701	ug/l	95
33) Carbon Tetrachloride	5.684	117	102009	60.600	ug/l	96
34) Benzene	6.043	78	204032	45.580	ug/l	97
35) Methacrylonitrile	4.922	41	41162	33.389	ug/l	98
36) 1,2-Dichloroethane	6.092	62	100654	55.903	ug/l #	94
37) Trichloroethene	7.135	130	57834	47.494	ug/l	87
38) Methylcyclohexane	7.385	83	88213	46.455	ug/l	99
39) 1,2-Dichloropropane	7.433	63	54086	46.173	ug/l	100
40) Dibromomethane	7.586	93	43646	51.323	ug/l	91
41) Bromodichloromethane	7.824	83	92910	57.798	ug/l	99
42) Vinyl Acetate	3.727	43	621075	197.770	ug/l	98

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43) Ethyl Acetate	4.714	43	76161	41.826	ug/l	98
44) Isopropyl Acetate	6.348	43	123294	42.665	ug/l #	80
45) 1,4-Dioxane	7.690	88	26319	881.660	ug/l	92
46) Methyl methacrylate	7.696	41	61272	43.680	ug/l	90
47) n-amyl Acetate	10.847	43	99086	40.595	ug/l	93
48) t-1,3-Dichloropropene	8.982	75	103000	55.820	ug/l	96
49) cis-1,3-Dichloropropene	8.372	75	100309	52.001	ug/l #	85
50) 1,1,2-Trichloroethane	9.153	97	57667	47.414	ug/l	95
51) Ethyl methacrylate	9.116	69	98061	50.585	ug/l	84
52) 1,3-Dichloropropane	9.311	76	101754	50.396	ug/l	99
53) Dibromochloromethane	9.525	129	68173	54.036	ug/l	98
54) 1,2-Dibromoethane	9.610	107	64551	49.567	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	215211	229.928	ug/l	98
56) Bromoform	10.805	173	47115	53.144	ug/l	99
58) 4-Methyl-2-Pentanone	8.580	43	390587	205.018	ug/l #	91
59) 2-Hexanone	9.433	43	302344m	205.747	ug/l	
61) Tetrachloroethene	9.275	164	51972	43.244	ug/l	98
62) Toluene	8.720	91	230034	44.905	ug/l	95
64) Chlorobenzene	10.079	112	139588	43.385	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	61420	49.178	ug/l	96
66) Ethyl Benzene	10.195	91	279388	48.304	ug/l	95
67) m/p-Xylenes	10.305	106	193778	89.199	ug/l	82
68) o-Xylene	10.646	106	95008	44.191	ug/l	80
69) Styrene	10.659	104	159398	44.883	ug/l	92
70) Isopropylbenzene	10.963	105	272141	47.199	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.213	83	89558	48.527	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	85948m	49.457	ug/l	
73) Bromobenzene	11.201	156	60878	44.374	ug/l	85
74) n-propylbenzene	11.305	91	320012	47.546	ug/l	95
75) 2-Chlorotoluene	11.366	91	199741	49.435	ug/l	93
76) 1,3,5-Trimethylbenzene	11.457	105	230416	47.700	ug/l	91
77) t-1,4-Dichloro-2-butene	11.018	75	29891	48.673	ug/l	95
78) 4-Chlorotoluene	11.457	91	230060	50.028	ug/l	94
79) tert-butylbenzene	11.719	119	223376	47.752	ug/l	95
80) 1,2,4-Trimethylbenzene	11.756	105	235767	49.317	ug/l	91
81) sec-Butylbenzene	11.896	105	281049	47.179	ug/l	95
82) p-Isopropyltoluene	12.012	119	231509	47.208	ug/l	95
83) 1,3-Dichlorobenzene	11.969	146	113529	45.298	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	111927	45.100	ug/l	94
85) n-Butylbenzene	12.335	91	211222	48.402	ug/l	97
86) Hexachloroethane	12.542	117	40721	50.041	ug/l	88
87) 1,2-Dichlorobenzene	12.335	146	109456	44.973	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	12.945	75	25205	58.597	ug/l	85
89) 1,2,4-Trichlorobenzene	13.591	180	68363	45.089	ug/l	97
90) Hexachlorobutadiene	13.725	225	33579	48.912	ug/l	98
91) Naphthalene	13.780	128	251262	48.632	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	70528	46.466	ug/l	97

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

