

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111022\
 Data File : VX032758.D
 Acq On : 11 Nov 2022 06:00
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

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

Quant Time: Nov 11 06:49:48 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 11 05:24:06 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	11125	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	77152	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	84698	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	32422	30.209	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.700%			
60) 4-Bromofluorobenzene	11.079	95	48873	30.166	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.567%			
63) Toluene-d8	8.647	98	87696	30.680	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.267%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	21119	21.449	ug/l	98
3) Chloromethane	1.294	50	21351	21.853	ug/l	100
4) Vinyl Chloride	1.374	62	23539	21.307	ug/l	99
5) Bromomethane	1.611	94	20188	20.583	ug/l	99
6) Chloroethane	1.685	64	19460	22.301	ug/l	88
7) Trichlorofluoromethane	1.886	101	45359	21.299	ug/l	100
8) Diethyl Ether	2.136	74	14574	21.166	ug/l	71
9) 1,1,2-Trichlorotrifluo...	2.331	101	24091	21.266	ug/l	97
10) 1,1-Dichloroethene	2.319	96	22481	20.772	ug/l	92
11) Methyl Iodide	2.453	142	24436	21.002	ug/l	93
12) Methyl Acetate	2.703	43	33562	20.935	ug/l #	87
13) Acrolein	2.239	56	21879	102.342	ug/l	99
14) Acrylonitrile	3.062	53	61461	106.944	ug/l	99
15) Acetone	2.386	58	16647	111.394	ug/l	72
16) Carbon Disulfide	2.514	76	55671	20.664	ug/l	99
17) Allyl chloride	2.666	41	35199	20.469	ug/l	88
18) Methylene Chloride	2.788	84	26638	21.343	ug/l	91
19) trans-1,2-Dichloroethene	3.093	96	25090	21.046	ug/l #	83
20) Diisopropyl ether	3.757	45	79103	20.514	ug/l #	95
21) 1,1-Dichloroethane	3.611	63	45366	20.958	ug/l	94
22) cis-1,2-Dichloroethene	4.489	96	28377	20.386	ug/l	87
23) tert-Butyl Alcohol	2.983	59	24071	128.996	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	80924	20.882	ug/l #	91
25) Chloroform	5.093	83	49941	20.686	ug/l	99
26) Cyclohexane	5.477	56	40010	21.165	ug/l #	82
29) 1,1-Dichloropropene	5.696	75	35699	20.863	ug/l	97
30) 2-Butanone	4.562	43	87208	109.305	ug/l	90
31) 2,2-Dichloropropane	4.477	77	26603	18.179	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	44818	20.823	ug/l	95
33) Carbon Tetrachloride	5.678	117	39982	21.156	ug/l	98
34) Benzene	6.044	78	101659	21.086	ug/l #	96
35) Methacrylonitrile	4.916	41	18640	20.628	ug/l	89
36) 1,2-Dichloroethane	6.092	62	42761	21.545	ug/l #	92
37) Trichloroethene	7.129	130	28549	21.167	ug/l	88
38) Methylcyclohexane	7.379	83	40472	21.110	ug/l	88
39) 1,2-Dichloropropane	7.434	63	25111	20.577	ug/l	99
40) Dibromomethane	7.580	93	19606	21.042	ug/l	97
41) Bromodichloromethane	7.824	83	36529	20.569	ug/l	99
42) Vinyl Acetate	3.721	43	322969	105.349	ug/l #	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	4.715	43	33921	21.135	ug/l	#	86
44) Isopropyl Acetate	6.342	43	57390	21.338	ug/l		92
45) 1,4-Dioxane	7.696	88	12210	472.625	ug/l	#	88
46) Methyl methacrylate	7.696	41	29440	21.743	ug/l		86
47) n-amyl Acetate	10.842	43	50654	21.185	ug/l		95
48) t-1,3-Dichloropropene	8.982	75	35220	19.331	ug/l		99
49) cis-1,3-Dichloropropene	8.366	75	38935	20.238	ug/l	#	84
50) 1,1,2-Trichloroethane	9.153	97	27392	21.382	ug/l		97
51) Ethyl methacrylate	9.116	69	40239	21.032	ug/l		85
52) 1,3-Dichloropropane	9.311	76	44297	21.150	ug/l		99
53) Dibromochloromethane	9.525	129	28126	20.188	ug/l		100
54) 1,2-Dibromoethane	9.610	107	29294	21.229	ug/l		100
55) 2-Chloroethyl vinyl ether	8.244	63	95077	102.831	ug/l		93
56) Bromoform	10.799	173	20011	20.062	ug/l		99
58) 4-Methyl-2-Pentanone	8.574	43	179633	108.342	ug/l	#	91
59) 2-Hexanone	9.433	43	136705	111.983	ug/l		90
61) Tetrachloroethene	9.275	164	24649	20.824	ug/l		92
62) Toluene	8.720	91	115151	20.905	ug/l		98
64) Chlorobenzene	10.079	112	72642	21.332	ug/l		99
65) 1,1,1,2-Tetrachloroethane	10.165	131	27489	21.190	ug/l		98
66) Ethyl Benzene	10.195	91	131666	21.308	ug/l		96
67) m/p-Xylenes	10.305	106	100660	41.866	ug/l		89
68) o-Xylene	10.640	106	49293	20.894	ug/l		88
69) Styrene	10.659	104	81078	20.672	ug/l		95
70) Isopropylbenzene	10.963	105	131842	20.927	ug/l		97
71) 1,1,2,2-Tetrachloroethane	11.213	83	41101	21.513	ug/l		99
72) 1,2,3-Trichloropropane	11.238	75	36920m	22.250	ug/l		
73) Bromobenzene	11.201	156	32230	21.059	ug/l		88
74) n-propylbenzene	11.305	91	149670	20.909	ug/l		95
75) 2-Chlorotoluene	11.366	91	92933	21.443	ug/l		93
76) 1,3,5-Trimethylbenzene	11.451	105	112215	21.070	ug/l		95
77) t-1,4-Dichloro-2-butene	11.018	75	9435	18.634	ug/l		91
78) 4-Chlorotoluene	11.457	91	106599	21.353	ug/l		93
79) tert-butylbenzene	11.713	119	109898	21.234	ug/l		95
80) 1,2,4-Trimethylbenzene	11.750	105	112364	21.578	ug/l		93
81) sec-Butylbenzene	11.890	105	133775	21.469	ug/l		95
82) p-Isopropyltoluene	12.012	119	111902	21.310	ug/l		95
83) 1,3-Dichlorobenzene	11.969	146	59179	21.076	ug/l		98
84) 1,4-Dichlorobenzene	12.043	146	61127	21.678	ug/l		99
85) n-Butylbenzene	12.335	91	93282	20.959	ug/l		94
86) Hexachloroethane	12.542	117	17126	19.866	ug/l		99
87) 1,2-Dichlorobenzene	12.335	146	59790	21.420	ug/l		97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8959	22.103	ug/l	#	78
89) 1,2,4-Trichlorobenzene	13.591	180	35429	20.667	ug/l		98
90) Hexachlorobutadiene	13.725	225	14775	21.414	ug/l		97
91) Naphthalene	13.774	128	122342	21.144	ug/l		99
92) 1,2,3-Trichlorobenzene	13.963	180	36535	21.190	ug/l		96

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

