

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011422\
 Data File : VX026455.D
 Acq On : 14 Jan 2022 15:03
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/17/2022
 Supervised By : Mahesh Dadoda 01/18/2022

Quant Time: Jan 17 05:59:28 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 10 12:50:55 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	17067	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	95827	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	85143	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	40280	29.350	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	97.833%	
60) 4-Bromofluorobenzene	11.079	95	43510	30.620	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	102.067%	
63) Toluene-d8	8.653	98	113355	28.981	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	96.600%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	21051	20.478	ug/l	95
3) Chloromethane	1.295	50	19026	21.185	ug/l	99
4) Vinyl Chloride	1.374	62	19518	19.659	ug/l	96
5) Bromomethane	1.612	94	11083	24.794	ug/l	98
6) Chloroethane	1.691	64	11848	21.031	ug/l	97
7) Trichlorofluoromethane	1.892	101	30099	19.129	ug/l	99
8) Diethyl Ether	2.136	74	11383	20.275	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	19751	20.111	ug/l	97
10) 1,1-Dichloroethene	2.325	96	18208	19.847	ug/l	95
11) Methyl Iodide	2.453	142	19627	19.699	ug/l	97
12) Methyl Acetate	2.703	43	40916	21.289	ug/l	99
13) Acrolein	2.240	56	17103	85.865	ug/l	98
14) Acrylonitrile	3.069	53	58160	108.487	ug/l	99
15) Acetone	2.380	58	17854	106.022	ug/l	88
16) Carbon Disulfide	2.514	76	49476	19.097	ug/l	99
17) Allyl chloride	2.666	41	33578	19.018	ug/l	98
18) Methylene Chloride	2.794	84	21084	20.865	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	19739	20.016	ug/l	97
20) Diisopropyl ether	3.764	45	69881	20.364	ug/l	97
21) 1,1-Dichloroethane	3.611	63	37649	19.928	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	23288	20.184	ug/l	96
23) tert-Butyl Alcohol	2.959	59	19350	99.510	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	67698	19.843	ug/l	99
25) Chloroform	5.099	83	54362	27.770	ug/l	97
26) Cyclohexane	5.471	56	34950	20.225	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	29143	19.691	ug/l	99
30) 2-Butanone	4.562	43	84681	98.521	ug/l	98
31) 2,2-Dichloropropane	4.483	77	25348	16.535	ug/l	95
32) 1,1,1-Trichloroethane	5.391	97	33402	18.538	ug/l	98
33) Carbon Tetrachloride	5.684	117	29200	18.293	ug/l	97
34) Benzene	6.044	78	83510	20.349	ug/l	98
35) Methacrylonitrile	4.922	41	18261	20.277	ug/l	98
36) 1,2-Dichloroethane	6.086	62	31889	19.240	ug/l	98
37) Trichloroethene	7.129	130	23769	20.055	ug/l	99
38) Methylcyclohexane	7.385	83	35698	20.127	ug/l	100
39) 1,2-Dichloropropane	7.434	63	21151	20.155	ug/l	100
40) Dibromomethane	7.586	93	14818	20.100	ug/l	99
41) Bromodichloromethane	7.824	83	30117	19.795	ug/l	99
42) Vinyl Acetate	3.727	43	264516	99.330	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	32864	21.030	ug/l	98
44) Isopropyl Acetate	6.349	43	51370	19.916	ug/l	99
45) 1,4-Dioxane	7.665	88	8361	418.217	ug/l	97
46) Methyl methacrylate	7.696	41	25856	20.436	ug/l	96
47) n-amyl Acetate	10.848	43	40950	21.219	ug/l	97
48) t-1,3-Dichloropropene	8.982	75	26880	17.694	ug/l	95
49) cis-1,3-Dichloropropene	8.373	75	30771	18.318	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	21062	20.779	ug/l	99
51) Ethyl methacrylate	9.116	69	33223	20.557	ug/l	98
52) 1,3-Dichloropropane	9.311	76	36678	20.880	ug/l	100
53) Dibromochloromethane	9.525	129	21161	19.209	ug/l	100
54) 1,2-Dibromoethane	9.610	107	22103	20.561	ug/l	99
55) 2-Chloroethyl vinyl ether	8.245	63	89754	103.820	ug/l	99
56) Bromoform	10.799	173	13916	19.028	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	167699	105.595	ug/l	99
59) 2-Hexanone	9.433	43	126487	102.859	ug/l	99
61) Tetrachloroethene	9.275	164	24432	19.469	ug/l	94
62) Toluene	8.720	91	90125	19.827	ug/l	100
64) Chlorobenzene	10.080	112	55968	20.281	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	19689	18.736	ug/l	97
66) Ethyl Benzene	10.195	91	101188	19.895	ug/l	98
67) m/p-Xylenes	10.305	106	78100	41.331	ug/l	98
68) o-Xylene	10.647	106	37875	20.666	ug/l	98
69) Styrene	10.659	104	63595	20.877	ug/l	98
70) Isopropylbenzene	10.964	105	101977	20.740	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	29761	22.210	ug/l	100
72) 1,2,3-Trichloropropane	11.244	75	28926m	21.286	ug/l	
73) Bromobenzene	11.201	156	23559	20.932	ug/l	99
74) n-propylbenzene	11.305	91	118291	20.828	ug/l	100
75) 2-Chlorotoluene	11.366	91	71058	20.826	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	86469	21.053	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	6739	16.489	ug/l	88
78) 4-Chlorotoluene	11.457	91	80863	20.789	ug/l	99
79) tert-butylbenzene	11.713	119	81599	21.464	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	85160	20.991	ug/l	99
81) sec-Butylbenzene	11.890	105	105638	21.212	ug/l	99
82) p-Isopropyltoluene	12.012	119	89404	21.251	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	45101	21.531	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	46236	22.028	ug/l	99
85) n-Butylbenzene	12.335	91	77022	21.154	ug/l	99
86) Hexachloroethane	12.543	117	11847	18.653	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	44596	22.157	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	6894	20.164	ug/l	99
89) 1,2,4-Trichlorobenzene	13.591	180	28609	21.713	ug/l	100
90) Hexachlorobutadiene	13.725	225	12127	21.087	ug/l	98
91) Naphthalene	13.780	128	99708	21.890	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	28518	21.760	ug/l	99

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

