

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011022\
 Data File : VX026393.D
 Acq On : 10 Jan 2022 11:10
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

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

Quant Time: Jan 10 12:40:36 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	4.904	128	21983	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	124496	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	104919	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	54330	25.896	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	86.333%	#	
60) 4-Bromofluorobenzene	11.079	95	52408	27.377	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	91.267%		
63) Toluene-d8	8.647	98	145669	30.061	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.200%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	31786	18.882	ug/l	99
3) Chloromethane	1.294	50	26646	30.129	ug/l	95
4) Vinyl Chloride	1.380	62	28998	28.592	ug/l	99
5) Bromomethane	1.618	94	13494	16.206	ug/l	97
6) Chloroethane	1.691	64	17021	29.765	ug/l	100
7) Trichlorofluoromethane	1.892	101	46508	19.000	ug/l	96
8) Diethyl Ether	2.136	74	16168	27.873	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	29132	22.816	ug/l	96
10) 1,1-Dichloroethene	2.325	96	26538	24.511	ug/l	94
11) Methyl Iodide	2.459	142	26410	23.457	ug/l	99
12) Methyl Acetate	2.703	43	55186	24.259	ug/l	99
13) Acrolein	2.239	56	23018	222.156	ug/l	98
14) Acrylonitrile	3.068	53	77334	120.696	ug/l	98
15) Acetone	2.386	58	26247	134.072	ug/l	94
16) Carbon Disulfide	2.520	76	74038	26.790	ug/l	100
17) Allyl chloride	2.666	41	49637	28.741	ug/l	97
18) Methylene Chloride	2.794	84	29076	22.943	ug/l	96
19) trans-1,2-Dichloroethene	3.099	96	28207	23.699	ug/l	95
20) Diisopropyl ether	3.763	45	101131	27.067	ug/l	92
21) 1,1-Dichloroethane	3.617	63	54640	22.038	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	32745	23.185	ug/l	94
23) tert-Butyl Alcohol	2.983	59	25855	66.356	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	98906	21.613	ug/l	98
25) Chloroform	5.099	83	57132	19.873	ug/l	98
26) Cyclohexane	5.471	56	50586	25.575	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	41666	20.813	ug/l	99
30) 2-Butanone	4.556	43	126219	125.008	ug/l	98
31) 2,2-Dichloropropane	4.483	77	42564	16.739	ug/l	94
32) 1,1,1-Trichloroethane	5.391	97	51143	17.759	ug/l	98
33) Carbon Tetrachloride	5.678	117	45348	17.944	ug/l	99
34) Benzene	6.044	78	117331	22.980	ug/l	98
35) Methacrylonitrile	4.928	41	25714m	25.824	ug/l	
36) 1,2-Dichloroethane	6.092	62	47160	19.062	ug/l	100
37) Trichloroethene	7.129	130	33675	23.597	ug/l	95
38) Methylcyclohexane	7.385	83	51506	23.959	ug/l	96
39) 1,2-Dichloropropane	7.434	63	30136	21.628	ug/l	99
40) Dibromomethane	7.580	93	20909	19.262	ug/l	97
41) Bromodichloromethane	7.824	83	43504	18.875	ug/l	98
42) Vinyl Acetate	3.721	43	380477	125.946	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	44305	22.893	ug/l	99
44) Isopropyl Acetate	6.342	43	72868	24.071	ug/l	100
45) 1,4-Dioxane	7.684	88	11329	352.428	ug/l	94
46) Methyl methacrylate	7.690	41	36249	24.494	ug/l	96
47) n-amyl Acetate	10.841	43	55036	22.545	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	42283	17.031	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	47120	19.012	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	29260	19.907	ug/l	98
51) Ethyl methacrylate	9.116	69	46230	19.515	ug/l	100
52) 1,3-Dichloropropane	9.311	76	50592	20.143	ug/l	99
53) Dibromochloromethane	9.525	129	31652	18.862	ug/l	98
54) 1,2-Dibromoethane	9.610	107	30499	18.577	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	116537	110.547	ug/l	98
56) Bromoform	10.799	173	20185	18.117	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	224582	126.977	ug/l	100
59) 2-Hexanone	9.433	43	177291	130.455	ug/l	100
61) Tetrachloroethene	9.275	164	34918	28.402	ug/l	96
62) Toluene	8.720	91	124677	23.231	ug/l	99
64) Chlorobenzene	10.079	112	76136	23.487	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	28874	19.939	ug/l	98
66) Ethyl Benzene	10.195	91	139936	22.052	ug/l	99
67) m/p-Xylenes	10.305	106	104654	47.962	ug/l	96
68) o-Xylene	10.640	106	51083	23.973	ug/l	98
69) Styrene	10.659	104	82739	22.857	ug/l	98
70) Isopropylbenzene	10.963	105	136696	22.080	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	36220	17.723	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	37430m	18.910	ug/l	
73) Bromobenzene	11.201	156	31002	22.410	ug/l	89
74) n-propylbenzene	11.305	91	155991	21.246	ug/l	100
75) 2-Chlorotoluene	11.366	91	93730	20.370	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	113807	21.078	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	10198	15.302	ug/l	92
78) 4-Chlorotoluene	11.457	91	106867	20.349	ug/l	97
79) tert-butylbenzene	11.713	119	104968	20.634	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	112811	21.246	ug/l	98
81) sec-Butylbenzene	11.890	105	136994	21.645	ug/l	100
82) p-Isopropyltoluene	12.012	119	116182	22.132	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	56338	21.900	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	56693	22.130	ug/l	98
85) n-Butylbenzene	12.335	91	98691	20.613	ug/l	98
86) Hexachloroethane	12.542	117	16871	18.027	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	54965	21.701	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	9067	16.220	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	34228	22.308	ug/l	99
90) Hexachlorobutadiene	13.725	225	15461	19.944	ug/l	98
91) Naphthalene	13.780	128	120274	22.937	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	34929	22.319	ug/l	96

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

