

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030322\
 Data File : VX027276.D
 Acq On : 03 Mar 2022 17:29
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/04/2022
 Supervised By : Mahesh Dadoda 03/04/2022

Quant Time: Mar 04 00:48:51 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 04 00:46:35 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	12003	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	66262	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	61793	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	24745	28.752	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	95.833%	
60) 4-Bromofluorobenzene	11.079	95	30031	30.039	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	100.133%	
63) Toluene-d8	8.653	98	77012	27.600	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	92.000%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	74229	105.613	ug/l	96
3) Chloromethane	1.295	50	57585	89.388	ug/l	98
4) Vinyl Chloride	1.374	62	56820	88.684	ug/l	100
5) Bromomethane	1.599	94	26344	85.634	ug/l	98
6) Chloroethane	1.679	64	32764	86.754	ug/l	98
7) Trichlorofluoromethane	1.886	101	99505	98.162	ug/l	97
8) Diethyl Ether	2.136	74	30488	85.827	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	67503	95.438	ug/l	100
10) 1,1-Dichloroethene	2.319	96	66734	96.753	ug/l	100
11) Methyl Iodide	2.453	142	92341	104.823	ug/l	99
12) Methyl Acetate	2.709	43	87708	88.290	ug/l	92
13) Acrolein	2.240	56	67783	408.281	ug/l	100
14) Acrylonitrile	3.069	53	196628	450.417	ug/l	99
15) Acetone	2.386	58	53936	452.215	ug/l	98
16) Carbon Disulfide	2.514	76	177793	97.704	ug/l	98
17) Allyl chloride	2.666	41	111722	90.947	ug/l	99
18) Methylene Chloride	2.794	84	72543	93.026	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	70649	93.740	ug/l	97
20) Diisopropyl ether	3.770	45	210772	87.775	ug/l #	83
21) 1,1-Dichloroethane	3.611	63	125032	92.401	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	82364	95.038	ug/l	97
23) tert-Butyl Alcohol	2.977	59	80727	472.523	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	222496	92.508	ug/l	100
25) Chloroform	5.105	83	130653	93.547	ug/l	97
26) Cyclohexane	5.477	56	113635	91.380	ug/l #	97
29) 1,1-Dichloropropene	5.696	75	98761	95.399	ug/l	99
30) 2-Butanone	4.562	43	272813	444.488	ug/l	100
31) 2,2-Dichloropropane	4.483	77	102792	109.392	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	120520	97.558	ug/l	100
33) Carbon Tetrachloride	5.684	117	110185	100.990	ug/l	97
34) Benzene	6.044	78	285809	93.854	ug/l	99
35) Methacrylonitrile	4.928	41	57562	90.005	ug/l	95
36) 1,2-Dichloroethane	6.092	62	103173	93.967	ug/l	99
37) Trichloroethene	7.135	130	88599	98.994	ug/l	88
38) Methylcyclohexane	7.385	83	122593	96.119	ug/l	98
39) 1,2-Dichloropropane	7.434	63	70714	92.850	ug/l	98
40) Dibromomethane	7.580	93	52744	95.957	ug/l	98
41) Bromodichloromethane	7.824	83	102861	98.520	ug/l	99
42) Vinyl Acetate	3.727	43	944106	453.261	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	104749	90.042	ug/l	99
44) Isopropyl Acetate	6.342	43	166382	91.845	ug/l	100
45) 1,4-Dioxane	7.659	88	37099	1976.135	ug/l	98
46) Methyl methacrylate	7.696	41	82824	93.044	ug/l	96
47) n-amyl Acetate	10.848	43	142856	98.971	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	111771	106.924	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	120988	102.594	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	74037	98.199	ug/l	98
51) Ethyl methacrylate	9.116	69	119296	99.640	ug/l	99
52) 1,3-Dichloropropane	9.311	76	124192	96.180	ug/l	100
53) Dibromochloromethane	9.525	129	85928	107.848	ug/l	99
54) 1,2-Dibromoethane	9.610	107	85170	104.872	ug/l	96
55) 2-Chloroethyl vinyl ether	8.245	63	289095	480.811	ug/l	99
56) Bromoform	10.799	173	63699	114.440	ug/l	98
58) 4-Methyl-2-Pentanone	8.580	43	524845	426.685	ug/l	99
59) 2-Hexanone	9.433	43	406424	434.528	ug/l	99
61) Tetrachloroethene	9.275	164	85680	88.258	ug/l	97
62) Toluene	8.720	91	316892	91.946	ug/l	100
64) Chlorobenzene	10.080	112	206622	95.920	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	80049	99.960	ug/l	98
66) Ethyl Benzene	10.195	91	362472	95.035	ug/l	98
67) m/p-Xylenes	10.305	106	285478	193.265	ug/l	98
68) o-Xylene	10.647	106	139395	96.163	ug/l	99
69) Styrene	10.659	104	232719	96.702	ug/l	99
70) Isopropylbenzene	10.964	105	360113	95.537	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.214	83	105774	95.640	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	103430m	93.894	ug/l	
73) Bromobenzene	11.201	156	90027	97.157	ug/l	96
74) n-propylbenzene	11.305	91	417493	96.964	ug/l	99
75) 2-Chlorotoluene	11.366	91	251420	94.798	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	306638	96.975	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	34856	109.007	ug/l	87
78) 4-Chlorotoluene	11.457	91	287106	96.613	ug/l	100
79) tert-butylbenzene	11.720	119	301950	99.124	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	309504	98.337	ug/l	99
81) sec-Butylbenzene	11.890	105	380043	98.537	ug/l	99
82) p-Isopropyltoluene	12.012	119	325723	99.433	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	171093	99.356	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	170563	99.053	ug/l	100
85) n-Butylbenzene	12.335	91	272730	101.058	ug/l	100
86) Hexachloroethane	12.543	117	54062	104.690	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	162725	97.428	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	27150	100.993	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	114415	107.806	ug/l	97
90) Hexachlorobutadiene	13.725	225	45578	102.336	ug/l	99
91) Naphthalene	13.780	128	373422	101.105	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	109507	102.211	ug/l	99

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

