

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010824\
 Data File : VX039671.D
 Acq On : 08 Jan 2024 19:00
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX010824

Quant Time: Jan 09 06:17:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Jan 09 06:15:26 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/09/2024
 Supervised By : Mahesh Dadoda 01/09/2024

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

Internal Standards						
1) Bromochloromethane	4.898	128	8446	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	67769	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	80587	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	38470	29.054	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	96.833%	
60) 4-Bromofluorobenzene	11.079	95	53150	29.903	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	99.667%	
63) Toluene-d8	8.647	98	101580	30.659	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	102.200%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	28465	19.949	ug/l	98
3) Chloromethane	1.294	50	30783	19.417	ug/l	99
4) Vinyl Chloride	1.374	62	30042	19.417	ug/l	99
5) Bromomethane	1.599	94	14914	20.172	ug/l	97
6) Chloroethane	1.666	64	14125	20.057	ug/l	95
7) Trichlorofluoromethane	1.874	101	41565	19.025	ug/l	92
8) Diethyl Ether	2.136	74	15815	19.346	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	25195	18.828	ug/l	97
10) 1,1-Dichloroethene	2.313	96	24883	19.407	ug/l	96
11) Methyl Iodide	2.447	142	26355	18.758	ug/l	98
12) Methyl Acetate	2.703	43	39208	18.987	ug/l	96
13) Acrolein	2.233	56	27196	88.268	ug/l	100
14) Acrylonitrile	3.062	53	92918	98.120	ug/l	99
15) Acetone	2.386	58	28399	95.075	ug/l	92
16) Carbon Disulfide	2.508	76	66394	19.207	ug/l	97
17) Allyl chloride	2.660	41	46962	18.574	ug/l	94
18) Methylene Chloride	2.788	84	27267	18.192	ug/l	99
19) trans-1,2-Dichloroethene	3.087	96	25841	18.993	ug/l	99
20) Diisopropyl ether	3.757	45	96843	19.623	ug/l	91
21) 1,1-Dichloroethane	3.605	63	52564	19.076	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	29770	18.720	ug/l	94
23) tert-Butyl Alcohol	3.001	59	45806m	103.259	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	91515	19.473	ug/l	97
25) Chloroform	5.093	83	51302	18.970	ug/l	91
26) Cyclohexane	5.464	56	45553	19.056	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	37695	19.383	ug/l	98
30) 2-Butanone	4.556	43	134076	96.123	ug/l	99
31) 2,2-Dichloropropane	4.471	77	41355	19.126	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	43268	19.250	ug/l	99
33) Carbon Tetrachloride	5.678	117	33441	18.873	ug/l	95
34) Benzene	6.031	78	111896	19.395	ug/l	97
35) Methacrylonitrile	4.916	41	25413	18.935	ug/l	99
36) 1,2-Dichloroethane	6.086	62	42913	18.969	ug/l	99
37) Trichloroethene	7.123	130	25888	18.887	ug/l	95
38) Methylcyclohexane	7.379	83	45162	18.980	ug/l	96
39) 1,2-Dichloropropane	7.428	63	28153	18.111	ug/l	94
40) Dibromomethane	7.580	93	20536	19.558	ug/l	97
41) Bromodichloromethane	7.818	83	36900	18.965	ug/l	98
42) Vinyl Acetate	3.721	43	446557	96.828	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	50129	19.174	ug/l	99
44) Isopropyl Acetate	6.336	43	77590	19.198	ug/l	98
45) 1,4-Dioxane	7.665	88	15388	394.906	ug/l	97
46) Methyl methacrylate	7.696	41	37502	19.320	ug/l	98
47) n-amyl Acetate	10.842	43	68350	19.364	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	40031	19.116	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	43564	18.995	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	27898	19.383	ug/l	95
51) Ethyl methacrylate	9.116	69	46269	19.244	ug/l	99
52) 1,3-Dichloropropane	9.305	76	47876	19.276	ug/l	99
53) Dibromochloromethane	9.519	129	25973	19.390	ug/l	98
54) 1,2-Dibromoethane	9.610	107	29359	19.463	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	117274	100.240	ug/l	98
56) Bromoform	10.799	173	16444	18.226	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	265388	100.118	ug/l	99
59) 2-Hexanone	9.433	43	211594	98.612	ug/l	98
61) Tetrachloroethene	9.275	164	21392	20.039	ug/l	96
62) Toluene	8.714	91	119479	19.999	ug/l	98
64) Chlorobenzene	10.079	112	68364	19.681	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	24194	19.592	ug/l	98
66) Ethyl Benzene	10.195	91	130942	19.960	ug/l	98
67) m/p-Xylenes	10.299	106	95104	39.689	ug/l	97
68) o-Xylene	10.640	106	46938	19.512	ug/l	94
69) Styrene	10.653	104	76236	19.823	ug/l	98
70) Isopropylbenzene	10.963	105	126277	19.888	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	49405	20.258	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	40267m	19.740	ug/l	
73) Bromobenzene	11.201	156	27398	19.544	ug/l	95
74) n-propylbenzene	11.305	91	150529	19.884	ug/l	99
75) 2-Chlorotoluene	11.366	91	93210	19.818	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	104658	19.294	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	12072	18.034	ug/l	81
78) 4-Chlorotoluene	11.457	91	102802	19.707	ug/l	97
79) tert-butylbenzene	11.713	119	101668	19.781	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	106555	19.794	ug/l	100
81) sec-Butylbenzene	11.890	105	129348	19.582	ug/l	99
82) p-Isopropyltoluene	12.006	119	102208	19.442	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	51023	19.473	ug/l	97
84) 1,4-Dichlorobenzene	12.043	146	49440	19.025	ug/l	97
85) n-Butylbenzene	12.329	91	91290	18.973	ug/l	96
86) Hexachloroethane	12.536	117	17291	19.225	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	50815	19.352	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	11215	19.205	ug/l	90
89) 1,2,4-Trichlorobenzene	13.585	180	27460	18.549	ug/l	97
90) Hexachlorobutadiene	13.725	225	11976	18.479	ug/l	99
91) Naphthalene	13.774	128	111853	19.366	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	28990	18.913	ug/l	97

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

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