

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071924\
 Data File : VX042390.D
 Acq On : 19 Jul 2024 09:23
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

07/19/2024
 Supervised By :Mahesh
 Dadoda

Quant Time: Jul 19 10:46:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 10:46:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	33363	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	183900	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	169773	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	68856	29.981	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.933%
60) 4-Bromofluorobenzene	11.079	95	78359	29.817	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.400%
63) Toluene-d8	8.647	98	224672	30.932	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	10816	5.008	ug/l	96
3) Chloromethane	1.300	50	12011	4.975	ug/l	95
4) Vinyl Chloride	1.374	62	11370	4.816	ug/l	96
5) Bromomethane	1.599	94	5779	4.579	ug/l	93
6) Chloroethane	1.666	64	4975	4.932	ug/l	95
7) Trichlorofluoromethane	1.873	101	15607	5.249	ug/l	94
8) Diethyl Ether	2.136	74	5760	4.476	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	10969	5.427	ug/l	99
10) 1,1-Dichloroethene	2.306	96	10562	5.180	ug/l	92
11) Methyl Iodide	2.440	142	10204	3.845	ug/l	100
12) Methyl Acetate	2.709	43	13880	5.339	ug/l	99
13) Acrolein	2.239	56	11242	21.448	ug/l	97
14) Acrylonitrile	3.068	53	30243	24.512	ug/l	97
15) Acetone	2.392	58	11606	32.882	ug/l	89
16) Carbon Disulfide	2.501	76	19829	4.438	ug/l	98
17) Allyl chloride	2.660	41	16059	5.186	ug/l	96
18) Methylene Chloride	2.782	84	12095	5.172	ug/l	94
19) trans-1,2-Dichloroethene	3.087	96	10339	5.062	ug/l	98
20) Diisopropyl ether	3.763	45	33829	5.315	ug/l	90
21) 1,1-Dichloroethane	3.605	63	19376	5.329	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	12428	5.027	ug/l	95
23) tert-Butyl Alcohol	2.995	59	10170	22.170	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	32736	5.190	ug/l	97
25) Chloroform	5.092	83	20426	5.528	ug/l	97
26) Cyclohexane	5.458	56	16183	5.125	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	13261	5.525	ug/l	96
30) 2-Butanone	4.568	43	47205	29.434	ug/l	99
31) 2,2-Dichloropropane	4.464	77	14313	5.442	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	16461	5.410	ug/l	97
33) Carbon Tetrachloride	5.665	117	14065	5.360	ug/l	98
34) Benzene	6.031	78	43731	5.469	ug/l	99
35) Methacrylonitrile	4.928	41	7967	4.946	ug/l	91
36) 1,2-Dichloroethane	6.080	62	14025	5.631	ug/l	99
37) Trichloroethene	7.123	130	11463	5.249	ug/l	91
38) Methylcyclohexane	7.379	83	17108	5.381	ug/l	99
39) 1,2-Dichloropropane	7.427	63	10566	5.548	ug/l	99
40) Dibromomethane	7.586	93	7628	5.414	ug/l	98
41) Bromodichloromethane	7.824	83	13518	5.356	ug/l	94
42) Vinyl Acetate	3.721	43	137191	25.557	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	14745	4.903	ug/l	100
44) Isopropyl Acetate	6.342	43	22747	5.050	ug/l	98
45) 1,4-Dioxane	7.671	88	4951	90.182	ug/l #	90
46) Methyl methacrylate	7.696	41	10581	4.805	ug/l	96
47) n-amyl Acetate	10.841	43	19645	4.860	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	12385	4.766	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	14377	4.932	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	11217	5.475	ug/l	93
51) Ethyl methacrylate	9.116	69	15860	4.873	ug/l	98
52) 1,3-Dichloropropane	9.311	76	18313	5.468	ug/l	100
53) Dibromochloromethane	9.518	129	10858	4.843	ug/l	100
54) 1,2-Dibromoethane	9.610	107	11597	5.368	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	41973	27.708	ug/l	99
56) Bromoform	10.799	173	8455	4.625	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	79660	26.185	ug/l	99
59) 2-Hexanone	9.433	43	66247	28.213	ug/l	99
61) Tetrachloroethene	9.268	164	12093	5.661	ug/l	94
62) Toluene	8.714	91	48173	5.607	ug/l	100
64) Chlorobenzene	10.079	112	32008	5.471	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.159	131	11090	5.489	ug/l	97
66) Ethyl Benzene	10.195	91	50218	5.347	ug/l	99
67) m/p-Xylenes	10.299	106	39915	10.565	ug/l	100
68) o-Xylene	10.640	106	19917	5.288	ug/l	100
69) Styrene	10.658	104	31682	5.033	ug/l	98
70) Isopropylbenzene	10.963	105	49902	5.269	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	17352	5.294	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	13633m	5.135	ug/l	
73) Bromobenzene	11.201	156	14408	5.216	ug/l	100
74) n-propylbenzene	11.305	91	54053	5.196	ug/l	99
75) 2-Chlorotoluene	11.366	91	35890	5.433	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	41468	5.226	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	3970	4.042	ug/l	82
78) 4-Chlorotoluene	11.457	91	38294	5.218	ug/l	99
79) tert-butylbenzene	11.713	119	43667	5.185	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	42043	5.304	ug/l	98
81) sec-Butylbenzene	11.890	105	51764	5.270	ug/l	100
82) p-Isopropyltoluene	12.012	119	43137	5.011	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	25951	5.269	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	25093	5.118	ug/l	98
85) n-Butylbenzene	12.335	91	32023	4.811	ug/l	98
86) Hexachloroethane	12.536	117	7132	5.073	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	25691	5.157	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	3111	4.589	ug/l	93
89) 1,2,4-Trichlorobenzene	13.591	180	16057	4.762	ug/l	97
90) Hexachlorobutadiene	13.725	225	8616	5.185	ug/l	97
91) Naphthalene	13.774	128	44816	4.399	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	16916	4.844	ug/l	100

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

