

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071218\
 Data File : VX003343.D
 Acq On : 12 Jul 2018 11:11
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Quant Time: Jul 12 13:06:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 12 13:04:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	64381	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.87	114	302038	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	269614	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	120581	24.53	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	81.77%
60) 4-Bromofluorobenzene	11.14	95	130966	29.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.03%
63) Toluene-d8	8.72	98	364375	30.94	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	19721	6.418	ug/l 99
3) Chloromethane	1.32	50	23623	7.081	ug/l 99
4) Vinyl Chloride	1.41	62	24959	6.715	ug/l 100
5) Bromomethane	1.64	94	11958	5.507	ug/l 96
6) Chloroethane	1.73	64	16256	6.503	ug/l 100
7) Trichlorofluoromethane	1.93	101	34566	5.232	ug/l 94
8) Diethyl Ether	2.19	74	14111	5.990	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	22382	5.919	ug/l 97
10) 1,1-Dichloroethene	2.38	96	20132	6.049	ug/l 95
11) Methyl Iodide	2.51	142	9966	2.600	ug/l 96
12) Methyl Acetate	2.78	43	26944	4.988	ug/l 97
13) Acrolein	2.29	56	15344	39.955	ug/l 95
14) Acrylonitrile	3.15	53	60314	29.689	ug/l 99
15) Acetone	2.45	58	16212	28.711	ug/l 79
16) Carbon Disulfide	2.57	76	58990	7.078	ug/l 98
17) Allyl chloride	2.73	41	37726	5.696	ug/l 95
18) Methylene Chloride	2.86	84	26315	6.908	ug/l 86
19) trans-1,2-Dichloroethene	3.17	96	22795	6.387	ug/l 89
20) Diisopropyl ether	3.87	45	71195	5.769	ug/l 95
21) 1,1-Dichloroethane	3.70	63	40187	6.056	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	24160	6.298	ug/l 94
23) tert-Butyl Alcohol	3.06	59	24409	26.464	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	66206	5.328	ug/l 90
25) Chloroform	5.21	83	36471	5.476	ug/l 89
26) Cyclohexane	5.57	56	29821	5.289	ug/l # 94
29) 1,1-Dichloropropene	5.80	75	25778	6.320	ug/l 98
30) 2-Butanone	4.71	43	74819	32.056	ug/l 93
31) 2,2-Dichloropropane	4.58	77	30432	6.981	ug/l 100
32) 1,1,1-Trichloroethane	5.50	97	29109	5.908	ug/l 98
33) Carbon Tetrachloride	5.78	117	24619	5.559	ug/l 94
34) Benzene	6.14	78	73851	6.114	ug/l 98
35) Methacrylonitrile	5.06	41	14838	5.839	ug/l 86
36) 1,2-Dichloroethane	6.20	62	26540	5.596	ug/l 98
37) Trichloroethene	7.21	130	20463	5.784	ug/l 99
38) Methylcyclohexane	7.46	83	27310	5.503	ug/l 99
39) 1,2-Dichloropropane	7.52	63	18913	6.002	ug/l 96
40) Dibromomethane	7.67	93	12430	5.678	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	21797	5.301	ug/l	98
42) Vinyl Acetate	3.82	43	295972	33.436	ug/l	98
43) Ethyl Acetate	4.85	43	28291	6.338	ug/l #	92
44) Isopropyl Acetate	6.46	43	40019	5.351	ug/l	97
45) 1,4-Dioxane	7.76	88	8087	110.369	ug/l	96
46) Methyl methacrylate	7.78	41	18782	4.915	ug/l	89
47) n-amyl Acetate	10.90	43	29373	4.162	ug/l #	89
48) t-1,3-Dichloropropene	8.44	75	25395	5.260	ug/l	98
49) cis-1,3-Dichloropropene	9.04	75	21985	4.876	ug/l	96
50) 1,1,2-Trichloroethane	9.22	97	18316	5.672	ug/l	95
51) Ethyl methacrylate	9.18	69	24407	5.007	ug/l	84
52) 1,3-Dichloropropane	9.37	76	29663	5.624	ug/l	99
53) Dibromochloromethane	9.59	129	15970	4.659	ug/l	99
54) 1,2-Dibromoethane	9.68	107	18533	5.446	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	42443	18.333	ug/l	99
56) Bromoform	10.86	173	11703	4.276	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	121203	26.477	ug/l	96
59) 2-Hexanone	9.50	43	90200	25.776	ug/l	97
61) Tetrachloroethene	9.34	164	23185	6.266	ug/l	97
62) Toluene	8.79	91	77535	5.966	ug/l	100
64) Chlorobenzene	10.14	112	51484	5.963	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	16820	5.314	ug/l	98
66) Ethyl Benzene	10.26	91	80339	5.489	ug/l	100
67) m/p-Xylenes	10.36	106	62768	11.035	ug/l	98
68) o-Xylene	10.70	106	29645	5.350	ug/l	99
69) Styrene	10.71	104	50449	5.457	ug/l	96
70) Isopropylbenzene	11.02	105	80233	5.251	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	25451	5.572	ug/l	96
72) 1,2,3-Trichloropropane	11.30	75	28767	7.265	ug/l	94
73) Bromobenzene	11.26	156	24188	5.692	ug/l	95
74) n-propylbenzene	11.36	91	95700	5.395	ug/l	100
75) 2-Chlorotoluene	11.42	91	57957	5.614	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	68035	5.244	ug/l	100
77) t-1,4-Dichloro-2-butene	11.08	75	5577	4.379	ug/l	77
78) 4-Chlorotoluene	11.51	91	66864	5.468	ug/l	97
79) tert-butylbenzene	12.07	119	70767	4.945	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	67520	5.096	ug/l	99
81) sec-Butylbenzene	11.95	105	81282	5.121	ug/l	99
82) p-Isopropyltoluene	12.07	119	70767	4.945	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	44783	5.727	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	44694	5.659	ug/l	99
85) n-Butylbenzene	12.39	91	62513	4.928	ug/l	98
86) Hexachloroethane	12.60	117	9533	4.395	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	43059	5.453	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	4463	4.374	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	30766	5.161	ug/l	98
90) Hexachlorobutadiene	13.79	225	17011	5.482	ug/l	99
91) Naphthalene	13.83	128	78132	4.945	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	32343	5.454	ug/l	99

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

