

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100218\
 Data File : VX004910.D
 Acq On : 02 Oct 2018 10:05
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 4:23:04 PM

Quant Time: Oct 03 04:32:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X100218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 03 04:23:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	48284	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	252806	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	240950	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	106077	28.91	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.37%
60) 4-Bromofluorobenzene	11.14	95	116910	29.19	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.30%
63) Toluene-d8	8.71	98	329639	30.65	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.17%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	13806	3.673 ug/l	98
3) Chloromethane	1.32	50	16929	4.340 ug/l	100
4) Vinyl Chloride	1.40	62	17049	4.276 ug/l	99
5) Bromomethane	1.64	94	8904	4.654 ug/l	97
6) Chloroethane	1.71	64	11845	5.174 ug/l	90
7) Trichlorofluoromethane	1.93	101	23335	4.594 ug/l	98
8) Diethyl Ether	2.19	74	9864	4.764 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.38	101	14603	5.006 ug/l	99
10) 1,1-Dichloroethene	2.37	96	13293	4.811 ug/l	95
11) Methyl Iodide	2.51	142	5435	2.416 ug/l	94
12) Methyl Acetate	2.78	43	25307	4.542 ug/l	100
13) Acrolein	2.29	56	13531	26.287 ug/l	92
14) Acrylonitrile	3.15	53	55804	24.511 ug/l	99
15) Acetone	2.45	58	21084	27.704 ug/l	97
16) Carbon Disulfide	2.57	76	35750	4.412 ug/l	98
17) Allyl chloride	2.73	41	28817	4.690 ug/l	97
18) Methylene Chloride	2.85	84	16314	5.077 ug/l	98
19) trans-1,2-Dichloroethene	3.16	96	14362	4.866 ug/l	94
20) Diisopropyl ether	3.87	45	51451	4.912 ug/l	98
21) 1,1-Dichloroethane	3.69	63	28964	5.018 ug/l	99
22) cis-1,2-Dichloroethene	4.59	96	15638	4.789 ug/l	97
23) tert-Butyl Alcohol	3.07	59	24882	23.672 ug/l	# 100
24) Methyl tert-Butyl Ether	3.20	73	49054	4.831 ug/l	100
25) Chloroform	5.21	83	26424	4.865 ug/l	96
26) Cyclohexane	5.57	56	21984	4.438 ug/l	# 99
29) 1,1-Dichloropropene	5.79	75	18917	5.057 ug/l	98
30) 2-Butanone	4.70	43	82798	27.223 ug/l	99
31) 2,2-Dichloropropane	4.58	77	21178	5.160 ug/l	97
32) 1,1,1-Trichloroethane	5.49	97	21739	5.055 ug/l	99
33) Carbon Tetrachloride	5.77	117	18997	5.030 ug/l	100
34) Benzene	6.14	78	58169	5.124 ug/l	95
35) Methacrylonitrile	5.06	41	14382	5.088 ug/l	95
36) 1,2-Dichloroethane	6.20	62	21743	5.317 ug/l	98
37) Trichloroethene	7.21	130	15463	5.171 ug/l	100
38) Methylcyclohexane	7.46	83	21414	4.821 ug/l	98
39) 1,2-Dichloropropane	7.51	63	15362	5.079 ug/l	99
40) Dibromomethane	7.66	93	10129	5.167 ug/l	98

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Quant Time: Oct 03 04:32:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X100218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	18705	4.949	ug/l	98
42) Vinyl Acetate	3.82	43	236902	26.922	ug/l	100
43) Ethyl Acetate	4.85	43	26012	5.185	ug/l	97
44) Isopropyl Acetate	6.46	43	35736	4.773	ug/l	99
45) 1,4-Dioxane	7.76	88	8437	95.646	ug/l	95
46) Methyl methacrylate	7.77	41	17944	4.619	ug/l	98
47) n-amyl Acetate	10.90	43	29953	4.336	ug/l	97
48) t-1,3-Dichloropropene	9.04	75	19412	4.238	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	21904	4.945	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	15257	5.140	ug/l	92
51) Ethyl methacrylate	9.18	69	20803	4.416	ug/l	97
52) 1,3-Dichloropropane	9.37	76	25589	5.110	ug/l	100
53) Dibromochloromethane	9.59	129	14615	4.746	ug/l	100
54) 1,2-Dibromoethane	9.67	107	15626	5.052	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	59270	23.846	ug/l	97
56) Bromoform	10.86	173	11079	4.308	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	127051	23.484	ug/l	98
59) 2-Hexanone	9.49	43	105936	23.767	ug/l	99
61) Tetrachloroethene	9.34	164	14955	5.100	ug/l	94
62) Toluene	8.79	91	63808	5.039	ug/l	99
64) Chlorobenzene	10.14	112	41582	5.085	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	14265	4.799	ug/l	99
66) Ethyl Benzene	10.25	91	67055	4.850	ug/l	98
67) m/p-Xylenes	10.36	106	51281	9.527	ug/l	95
68) o-Xylene	10.70	106	24452	4.713	ug/l	98
69) Styrene	10.71	104	39124	4.484	ug/l	99
70) Isopropylbenzene	11.02	105	65457	4.711	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	24827	4.811	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	23319m	4.960	ug/l	
73) Bromobenzene	11.26	156	18698	4.896	ug/l	97
74) n-propylbenzene	11.36	91	77462	4.738	ug/l	98
75) 2-Chlorotoluene	11.42	91	48637	4.878	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	55701	4.646	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	5752	3.721	ug/l	88
78) 4-Chlorotoluene	11.51	91	55720	4.808	ug/l	98
79) tert-butylbenzene	12.07	119	57988	4.558	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	55459	4.536	ug/l	99
81) sec-Butylbenzene	11.94	105	66364	4.690	ug/l	99
82) p-Isopropyltoluene	12.07	119	57988	4.558	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	34091	4.827	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	35152	4.905	ug/l	99
85) n-Butylbenzene	12.39	91	50542	4.374	ug/l	100
86) Hexachloroethane	12.60	117	9251	4.414	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	34839	4.853	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	5349	4.485	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	24203	4.519	ug/l	100
90) Hexachlorobutadiene	13.79	225	13328	5.041	ug/l	98
91) Naphthalene	13.83	128	70370	4.226	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	26213	4.773	ug/l	97

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

