

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\
 Data File : VX002677.D
 Acq On : 18 Jun 2018 12:44
 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
 6/19/2018 1:05:26 PM

Quant Time: Jun 18 15:05:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 18 14:58:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	47379	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	263503	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	248493	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	110589	29.66	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.87%
60) 4-Bromofluorobenzene	11.14	95	119385	28.07	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.57%
63) Toluene-d8	8.72	98	325799	29.42	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.07%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	12918	5.14	ug/l	99
3) Chloromethane	1.32	50	13801	4.61	ug/l	99
4) Vinyl Chloride	1.40	62	14605	4.91	ug/l	99
5) Bromomethane	1.64	94	9468	5.68	ug/l	100
6) Chloroethane	1.73	64	9144	5.19	ug/l	98
7) Trichlorofluoromethane	1.93	101	24670	5.43	ug/l	99
8) Diethyl Ether	2.19	74	8685	5.08	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	14473	5.92	ug/l	97
10) 1,1-Dichloroethene	2.38	96	12621	5.35	ug/l	91
11) Methyl Iodide	2.51	142	9352	2.53	ug/l	94
12) Methyl Acetate	2.78	43	16949	4.44	ug/l	98
13) Acrolein	2.29	56	10844	33.34	ug/l	98
14) Acrylonitrile	3.15	53	35336	22.48	ug/l	97
15) Acetone	2.45	58	10532	25.13	ug/l	93
16) Carbon Disulfide	2.57	76	31964	4.75	ug/l	97
17) Allyl chloride	2.73	41	23839	4.90	ug/l	94
18) Methylene Chloride	2.86	84	14890	5.62	ug/l	99
19) trans-1,2-Dichloroethene	3.17	96	13079	5.25	ug/l	95
20) Diisopropyl ether	3.87	45	47891	5.16	ug/l	90
21) 1,1-Dichloroethane	3.70	63	25920	5.24	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	13854	4.66	ug/l	91
23) tert-Butyl Alcohol	3.06	59	17537	21.51	ug/l	# 100
24) Methyl tert-Butyl Ether	3.20	73	44089	4.79	ug/l	100
25) Chloroform	5.21	83	23449	4.51	ug/l	91
26) Cyclohexane	5.57	56	20842	4.58	ug/l	# 95
29) 1,1-Dichloropropene	5.80	75	17479	4.74	ug/l	96
30) 2-Butanone	4.70	43	48893	19.01	ug/l	97
31) 2,2-Dichloropropane	4.59	77	18401	5.68	ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	19859	4.12	ug/l	96
33) Carbon Tetrachloride	5.78	117	18113	4.14	ug/l	99
34) Benzene	6.15	78	52289	4.70	ug/l	97
35) Methacrylonitrile	5.07	41	9853	3.46	ug/l	95
36) 1,2-Dichloroethane	6.20	62	20615	4.75	ug/l	96
37) Trichloroethene	7.21	130	15190	4.81	ug/l	92
38) Methylcyclohexane	7.46	83	21659	5.04	ug/l	99
39) 1,2-Dichloropropane	7.52	63	13283	4.41	ug/l	91
40) Dibromomethane	7.67	93	9139	4.53	ug/l	98

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

41) Bromodichloromethane	7.90	83	15851	3.78	ug/l	98
42) Vinyl Acetate	3.82	43	200115	24.60	ug/l	100
43) Ethyl Acetate	4.86	43	17092	3.39	ug/l #	90
44) Isopropyl Acetate	6.46	43	29088	3.47	ug/l	96
45) 1,4-Dioxane	7.76	88	5967	74.73	ug/l #	91
46) Methyl methacrylate	7.78	41	14314	3.37	ug/l	95
47) n-amyl Acetate	10.90	43	24402	3.16	ug/l #	89
48) t-1,3-Dichloropropene	8.44	75	18088	3.84	ug/l	94
49) cis-1,3-Dichloropropene	9.04	75	16193	3.55	ug/l	99
50) 1,1,2-Trichloroethane	9.22	97	13440	4.64	ug/l	93
51) Ethyl methacrylate	9.18	69	18161	3.62	ug/l	97
52) 1,3-Dichloropropane	9.37	76	21734	4.44	ug/l	98
53) Dibromochloromethane	9.59	129	12315	3.48	ug/l	97
54) 1,2-Dibromoethane	9.68	107	13676	4.36	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	43303	18.37	ug/l	99
56) Bromoform	10.86	173	9025	2.90	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	92650	17.13	ug/l	99
59) 2-Hexanone	9.50	43	70334	16.76	ug/l	99
61) Tetrachloroethene	9.34	164	17329	4.57	ug/l	96
62) Toluene	8.79	91	58561	4.61	ug/l	98
64) Chlorobenzene	10.14	112	38938	4.74	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	12638	3.78	ug/l	96
66) Ethyl Benzene	10.26	91	62748	4.40	ug/l	98
67) m/p-Xylenes	10.36	106	48352	8.93	ug/l	99
68) o-Xylene	10.70	106	23373	4.31	ug/l	98
69) Styrene	10.71	104	37020	4.07	ug/l	98
70) Isopropylbenzene	11.02	105	64157	4.42	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	18955	4.17	ug/l	97
72) 1,2,3-Trichloropropane	11.30	75	16587m	3.87	ug/l	
73) Bromobenzene	11.26	156	18078	4.64	ug/l	94
74) n-propylbenzene	11.37	91	75239	4.64	ug/l	99
75) 2-Chlorotoluene	11.43	91	43885	4.39	ug/l	97
76) 1,3,5-Trimethylbenzene	11.51	105	53043	4.30	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	4047	2.61	ug/l	73
78) 4-Chlorotoluene	11.51	91	51891	4.57	ug/l	98
79) tert-butylbenzene	12.07	119	58247	4.50	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	54488	4.37	ug/l	97
81) sec-Butylbenzene	11.95	105	66202	4.58	ug/l	100
82) p-Isopropyltoluene	12.07	119	58247	4.50	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	33148	4.80	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	33543	4.88	ug/l	99
85) n-Butylbenzene	12.39	91	51363	4.73	ug/l	98
86) Hexachloroethane	12.60	117	7432	2.89	ug/l	95
87) 1,2-Dichlorobenzene	12.40	146	33607	4.72	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	13.01	75	3599	2.72	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	24105	4.77	ug/l	99
90) Hexachlorobutadiene	13.79	225	12890	4.79	ug/l	98
91) Naphthalene	13.84	128	59715	3.74	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	23971	4.54	ug/l	98

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

